

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042021\  
 Data File : VX021767.D  
 Acq On : 20 Apr 2021 20:39  
 Operator : JC/MD  
 Sample : PB135856ZHE#01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Apr 21 11:24:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042021W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 20 13:46:22 2021  
 Response via : Initial Calibration

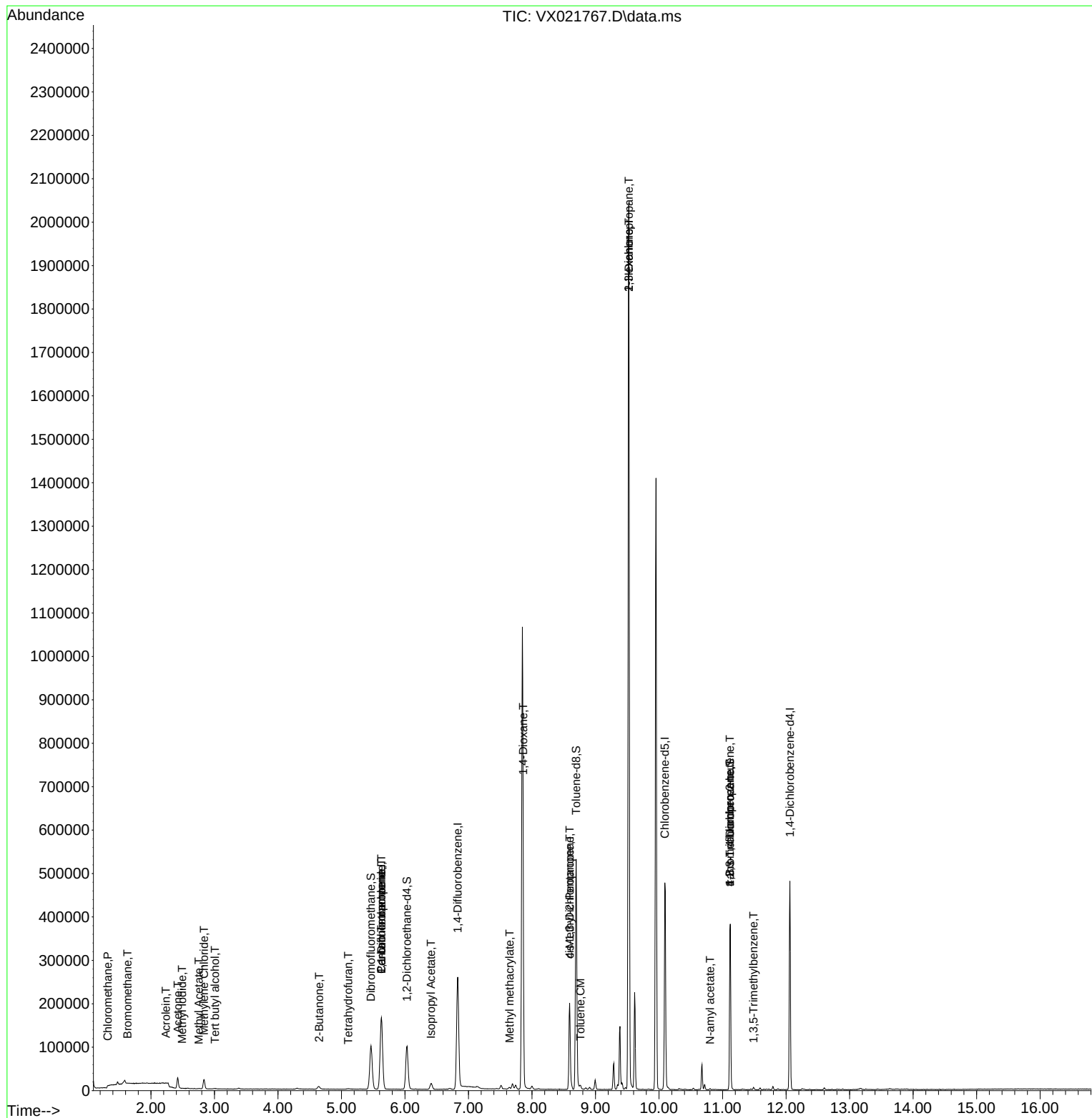
| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) Pentafluorobenzene         | 5.629          | 168  | 167508     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.830          | 114  | 275720     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.092         | 117  | 241824     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061         | 152  | 103337     | 50.00  | ug/l   | 0.00     |
|                               |                |      |            |        |        |          |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.031          | 65   | 94563      | 49.76  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 99.52% |        |          |
| 35) Dibromofluoromethane      | 5.465          | 113  | 87360      | 49.55  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 99.10% |        |          |
| 50) Toluene-d8                | 8.696          | 98   | 326519     | 48.16  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 96.32% |        |          |
| 62) 4-Bromofluorobenzene      | 11.116         | 95   | 108581     | 42.89  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 85.78% |        |          |
|                               |                |      |            |        |        |          |
| Target Compounds              |                |      |            |        |        | Qvalue   |
| 3) Chloromethane              | 1.319          | 50   | 3911       | 2.14   | ug/l   | 93       |
| 5) Bromomethane               | 1.630          | 94   | 178        | 0.21   | ug/l # | 55       |
| 10) Methyl Iodide             | 2.489          | 142  | 288        | 8.34   | ug/l # | 89       |
| 11) Tert butyl alcohol        | 3.008          | 59   | 1455       | 3.50   | ug/l   | 98       |
| 13) Acrolein                  | 2.233          | 56   | 133        | 0.40   | ug/l # | 1        |
| 16) Acetone                   | 2.422          | 43   | 25152      | 38.50  | ug/l   | 98       |
| 18) Methyl Acetate            | 2.752          | 43   | 1223       | 0.69   | ug/l   | 97       |
| 20) Methylene Chloride        | 2.837          | 84   | 10773      | 5.50   | ug/l   | 90       |
| 25) 2-Butanone                | 4.648          | 43   | 10434      | 9.43   | ug/l # | 88       |
| 29) Tetrahydrofuran           | 5.105          | 42   | 1411       | 1.96   | ug/l # | 76       |
| 36) 1,1-Dichloropropene       | 5.629          | 75   | 11156      | 4.58   | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.629          | 117  | 15793      | 5.93   | ug/l # | 18       |
| 43) Isopropyl Acetate         | 6.409          | 43   | 18616      | 4.65   | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.647          | 41   | 4660       | 2.39   | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.860          | 88   | 132        | 2.88   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.592          | 43   | 65487      | 28.55  | ug/l # | 49       |
| 52) Toluene                   | 8.763          | 92   | 1947       | 0.41   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.592          | 75   | 34666      | 10.73  | ug/l # | 54       |
| 57) 1,3-Dichloropropane       | 9.525          | 76   | 19415      | 6.25   | ug/l # | 43       |
| 59) 2-Hexanone                | 9.525          | 43   | 225813     | 131.33 | ug/l # | 47       |
| 74) N-amyl acetate            | 10.805         | 43   | 1155       | 0.41   | ug/l # | 44       |
| 76) 1,2,3-Trichloropropane    | 11.116         | 75   | 50572      | 24.68  | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 11.488         | 105  | 2257       | 0.37   | ug/l   | 92       |
| 81) trans-1,4-Dichloro-2-b... | 11.116         | 75   | 50572      | 56.75  | ug/l # | 12       |
| -----                         |                |      |            |        |        |          |

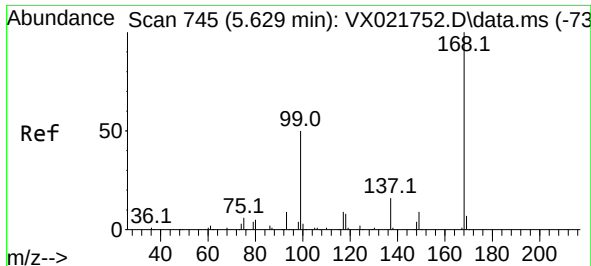
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042021\  
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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ClientSampleId :

Quant Time: Apr 21 11:24:37 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042021W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 20 13:46:22 2021  
Response via : Initial Calibration

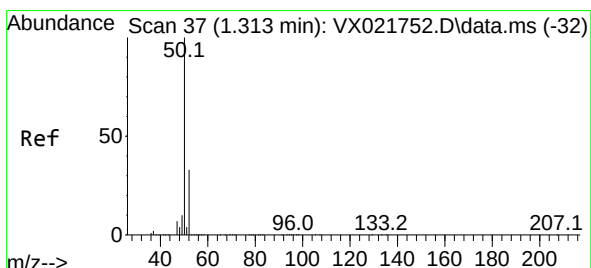
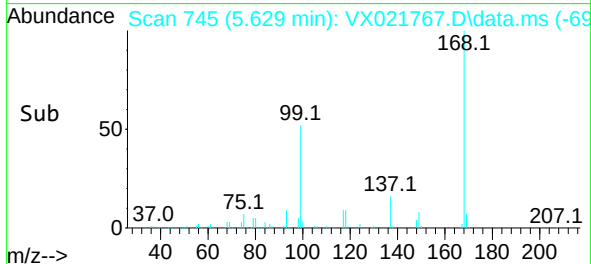
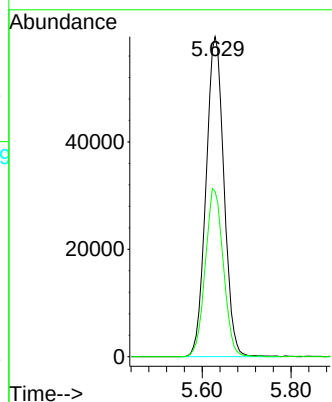
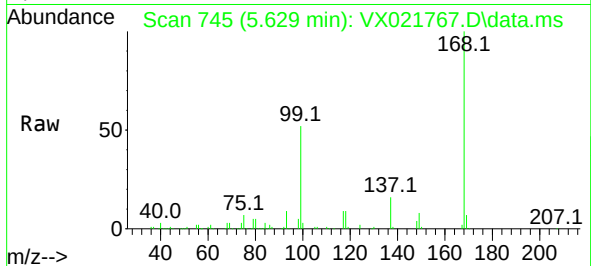




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

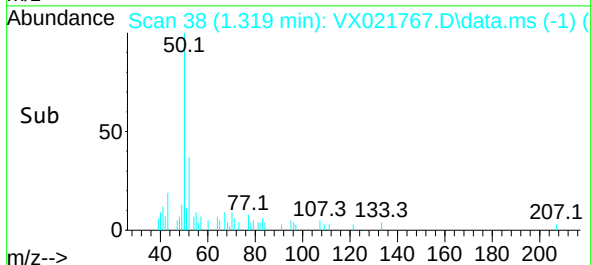
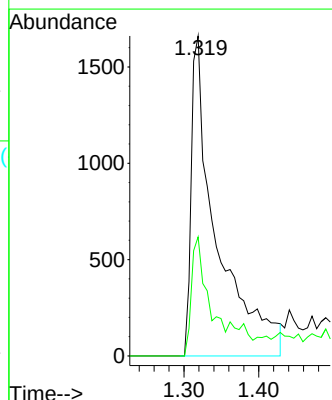
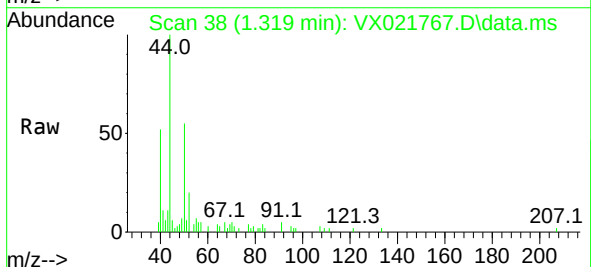
Instrument :  
MSVOA\_X  
ClientSampled :

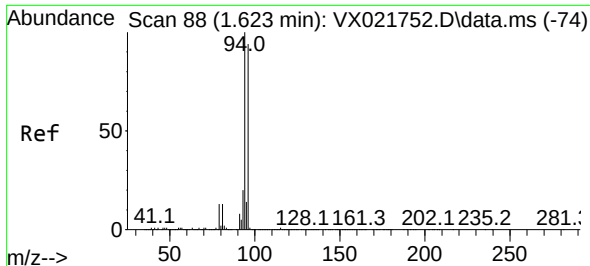
Tgt Ion:168 Resp: 167508  
Ion Ratio Lower Upper  
168 100  
99 51.6 45.8 68.6



#3  
Chloromethane  
Concen: 2.14 ug/l  
RT: 1.319 min Scan# 38  
Delta R.T. 0.006 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Tgt Ion: 50 Resp: 3911  
Ion Ratio Lower Upper  
50 100  
52 37.2 26.4 39.6

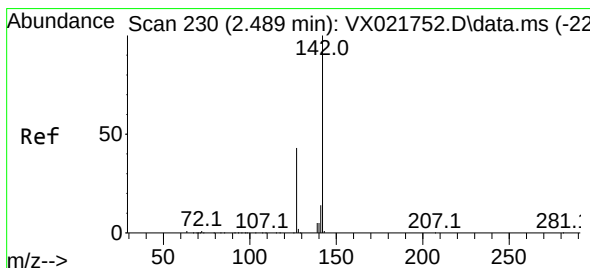
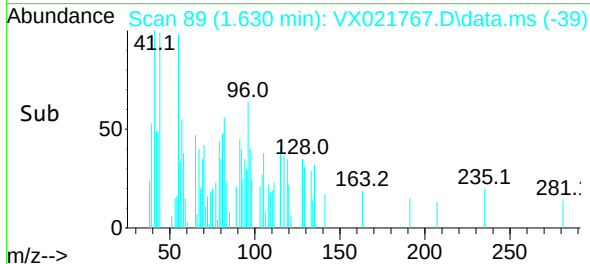
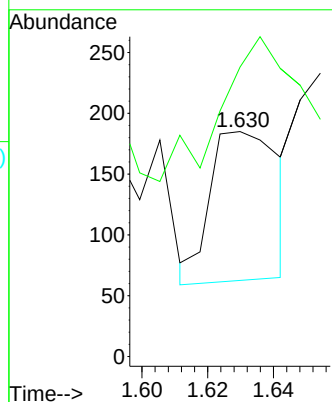
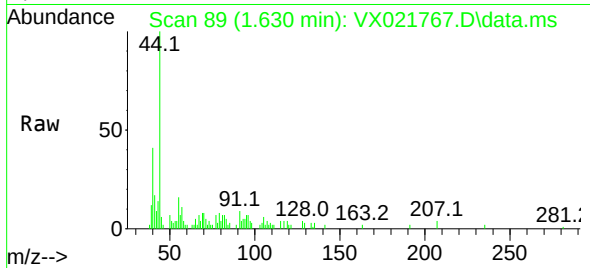




#5  
Bromomethane  
Concen: 0.21 ug/l  
RT: 1.630 min Scan# 89  
Delta R.T. 0.007 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

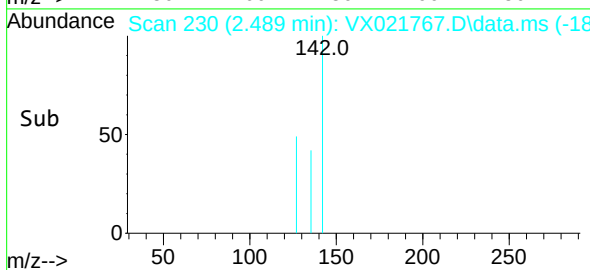
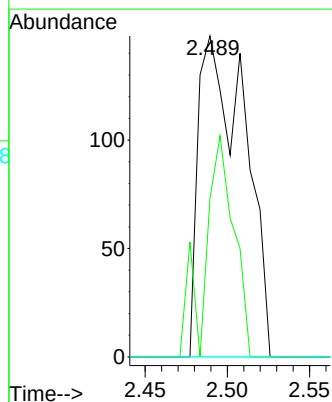
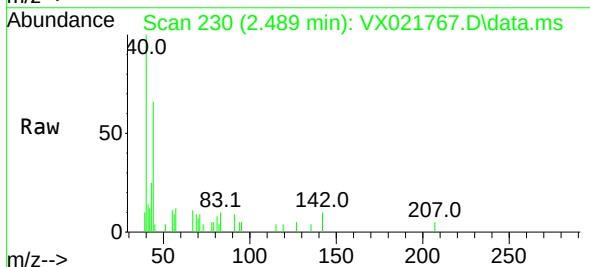
Instrument :  
MSVOA\_X  
ClientSampled :

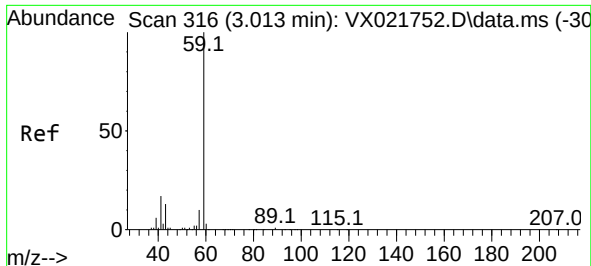
Tgt Ion: 94 Resp: 178  
Ion Ratio Lower Upper  
94 100  
96 51.9 76.4 114.6#



#10  
Methyl Iodide  
Concen: 8.34 ug/l  
RT: 2.489 min Scan# 230  
Delta R.T. 0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

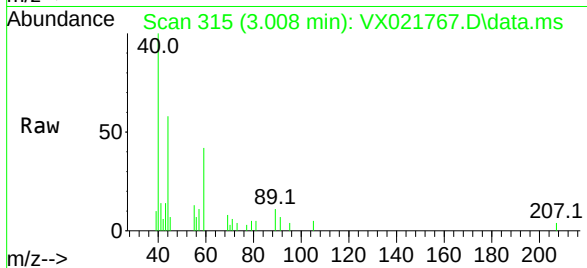
Tgt Ion: 142 Resp: 288  
Ion Ratio Lower Upper  
142 100  
127 43.4 33.3 49.9  
141 0.0 11.4 17.0#



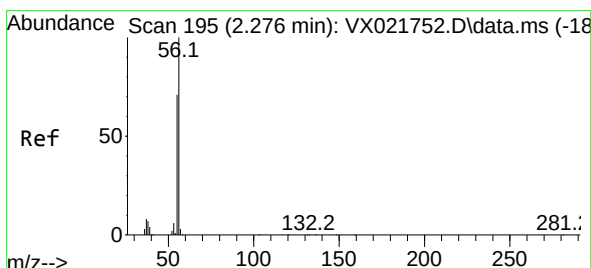
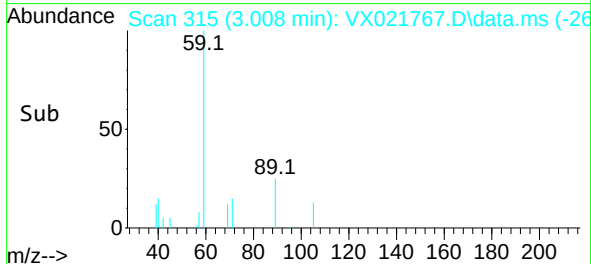
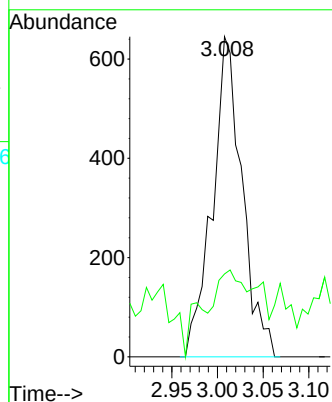


#11  
Tert butyl alcohol  
Concen: 3.50 ug/l  
RT: 3.008 min Scan# 315  
Delta R.T. -0.005 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Instrument :  
MSVOA\_X  
ClientSampled :

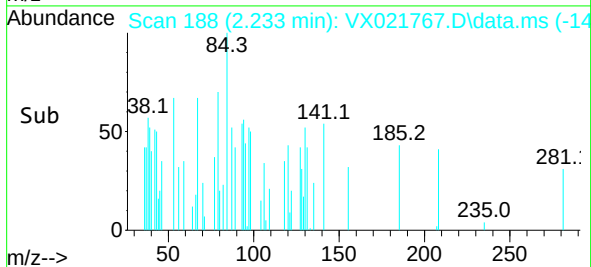
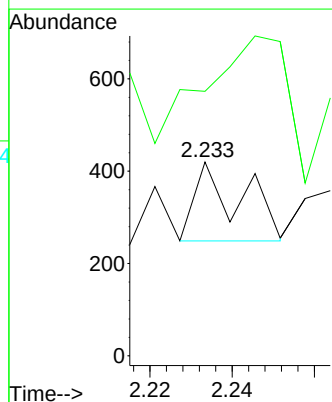
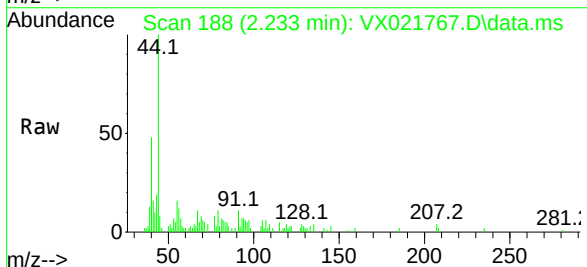


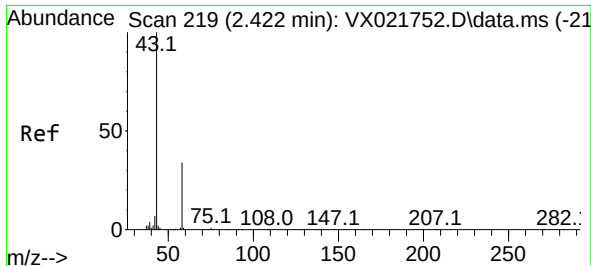
Tgt Ion: 59 Resp: 1455  
Ion Ratio Lower Upper  
59 100  
57 10.4 7.8 11.8



#13  
Acrolein  
Concen: 0.40 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. -0.043 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Tgt Ion: 56 Resp: 133  
Ion Ratio Lower Upper  
56 100  
55 241.4 56.4 84.6#

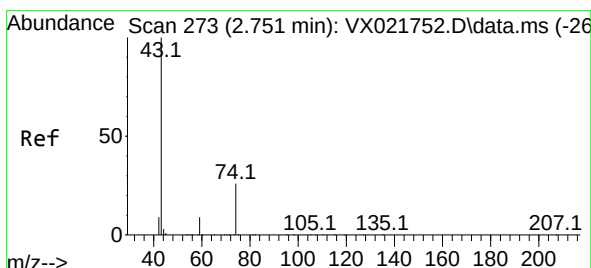
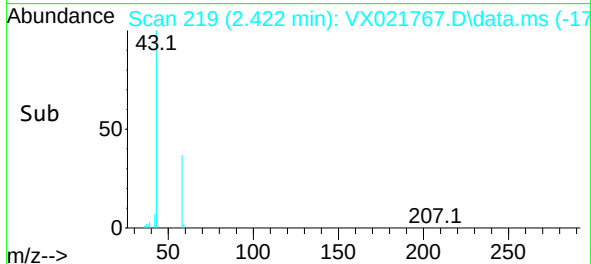
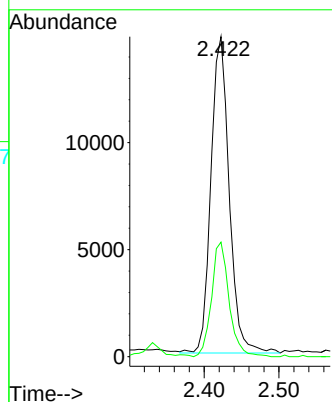
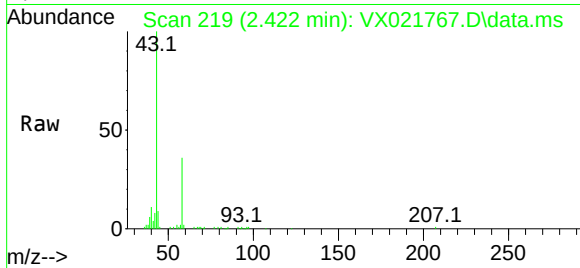




#16  
Acetone  
Concen: 38.50 ug/l  
RT: 2.422 min Scan# 219  
Delta R.T. 0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

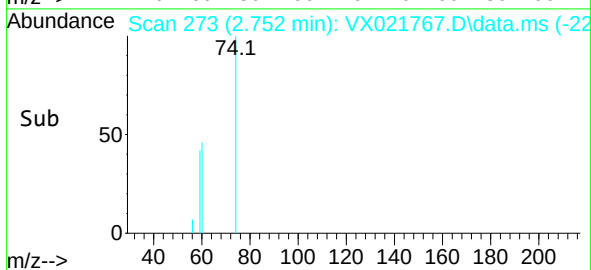
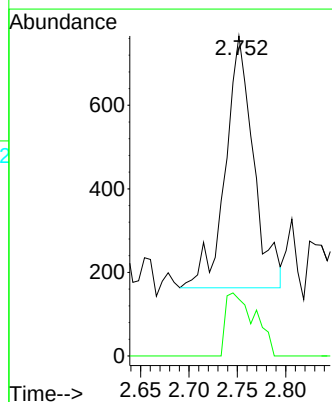
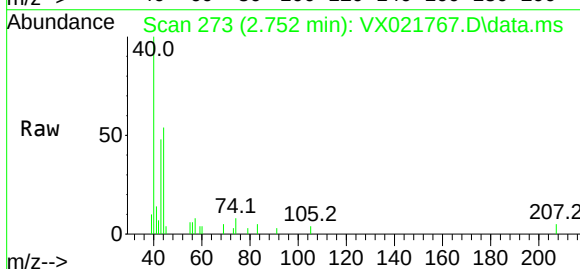
Instrument :  
MSVOA\_X  
ClientSampled :

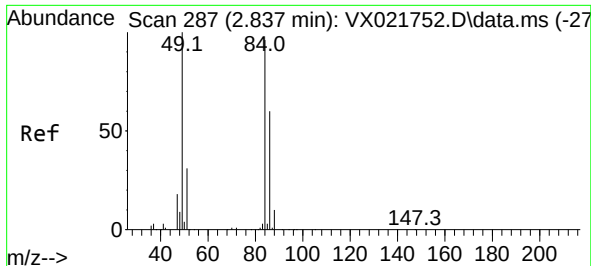
Tgt Ion: 43 Resp: 25152  
Ion Ratio Lower Upper  
43 100  
58 36.2 27.8 41.8



#18  
Methyl Acetate  
Concen: 0.69 ug/l  
RT: 2.752 min Scan# 273  
Delta R.T. 0.001 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Tgt Ion: 43 Resp: 1223  
Ion Ratio Lower Upper  
43 100  
74 25.8 21.9 32.9

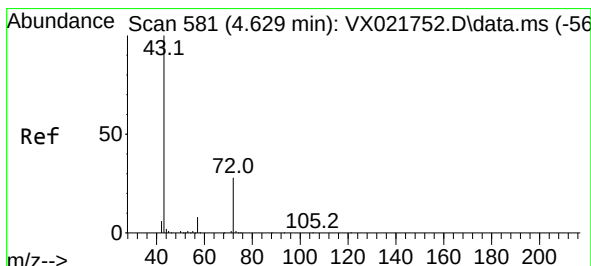
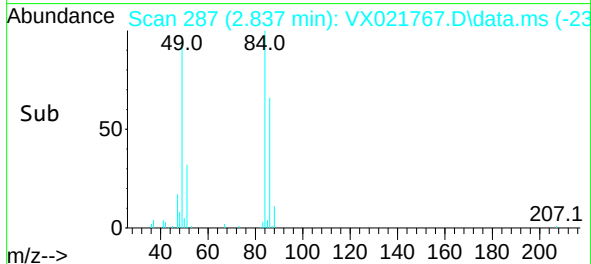
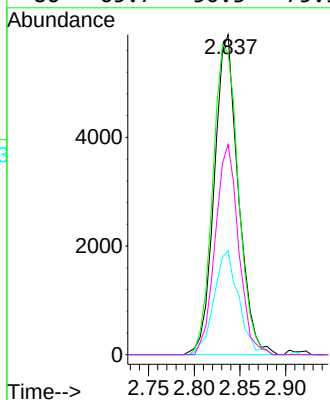
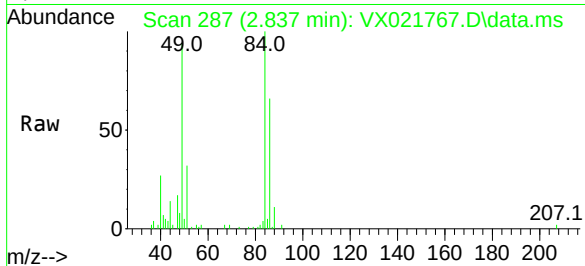




#20  
Methylene Chloride  
Concen: 5.50 ug/l  
RT: 2.837 min Scan# 287  
Delta R.T. -0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

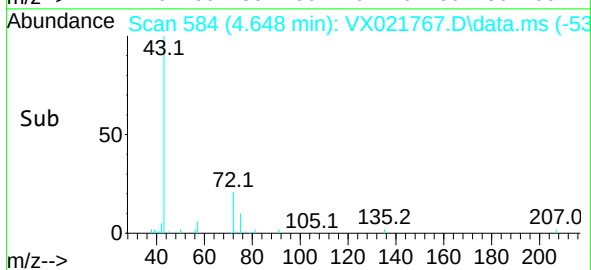
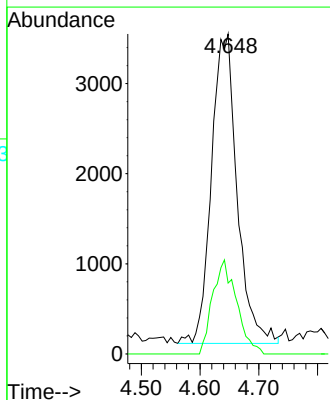
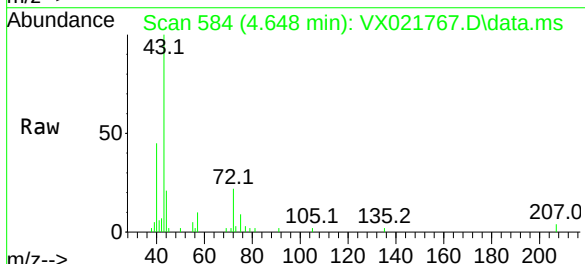
Instrument :  
MSVOA\_X  
ClientSampleId :

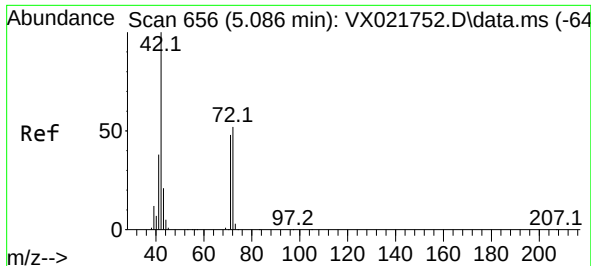
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 10773 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 94.1  | 88.6  | 132.8 |
| 51       | 32.5  | 27.0  | 40.6  |
| 86       | 65.7  | 50.3  | 75.5  |



#25  
2-Butanone  
Concen: 9.43 ug/l  
RT: 4.648 min Scan# 584  
Delta R.T. 0.019 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 10434 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 22.9  | 23.7  | 35.5# |





#29

Tetrahydrofuran

Concen: 1.96 ug/l

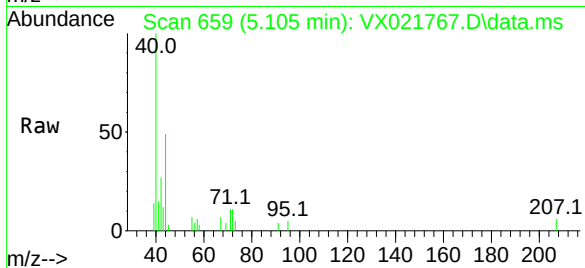
RT: 5.105 min Scan# 659

Delta R.T. 0.019 min

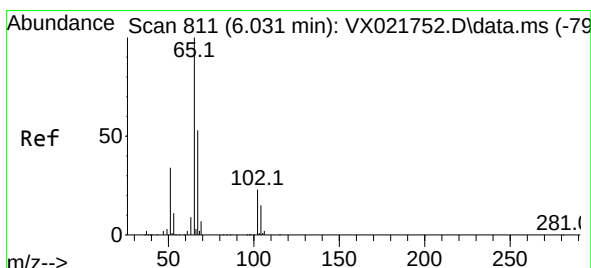
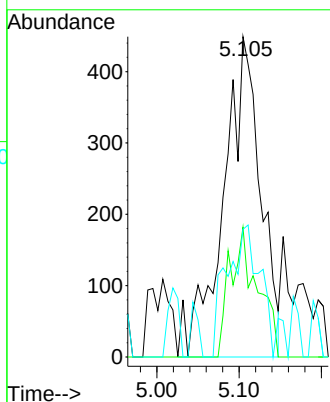
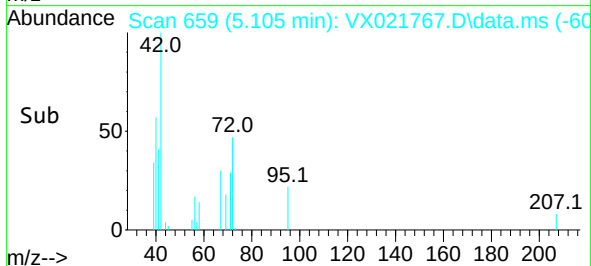
Lab File: VX021767.D

Acq: 20 Apr 2021 20:39

Instrument :  
MSVOA\_X  
ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 1411  |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 30.1  | 41.7  | 62.5# |
| 71        | 36.4  | 38.4  | 57.6# |



#33

1,2-Dichloroethane-d4

Concen: 49.76 ug/l

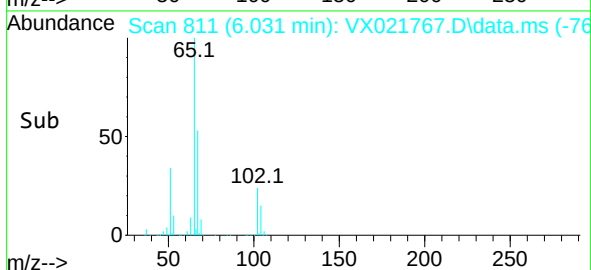
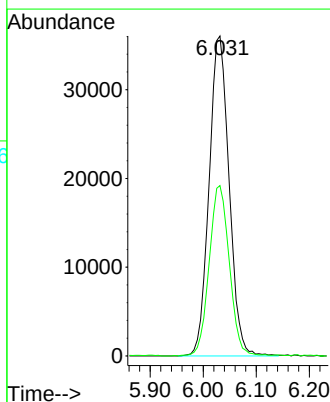
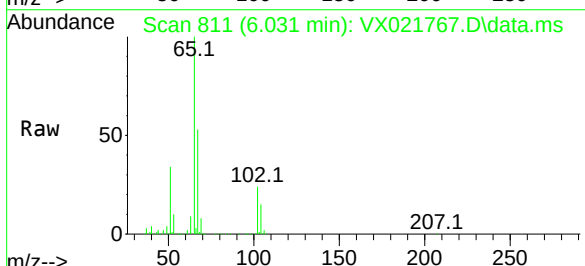
RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

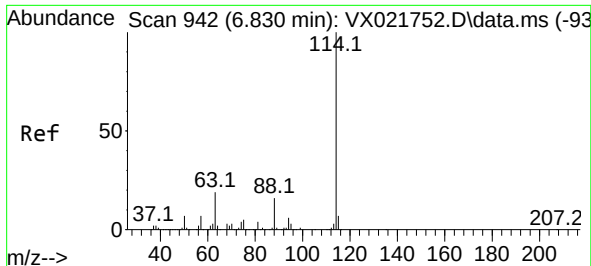
Lab File: VX021767.D

Acq: 20 Apr 2021 20:39

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 65    | Resp: | 94563 |
| Ion Ratio | Lower | Upper |       |
| 65        | 100   |       |       |
| 67        | 53.8  | 0.0   | 105.4 |

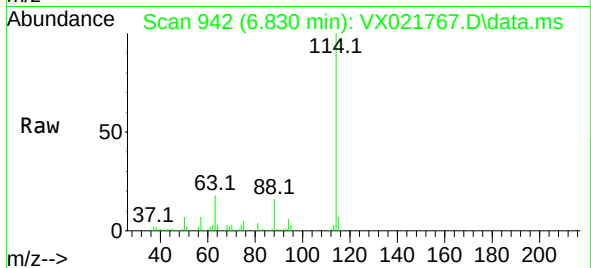




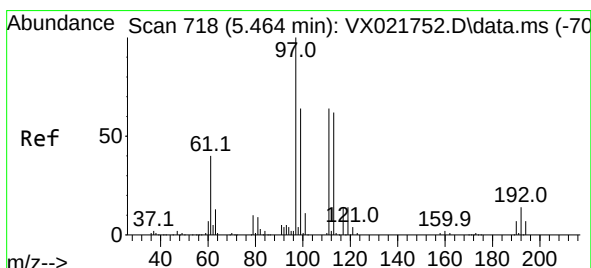
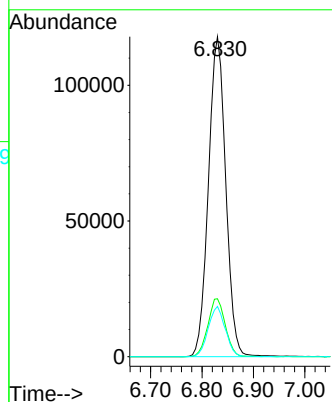
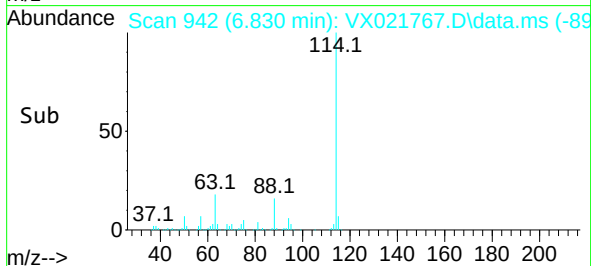


#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. 0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

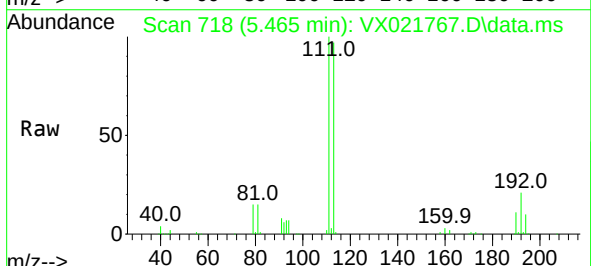
Instrument :  
MSVOA\_X  
ClientSampleId :



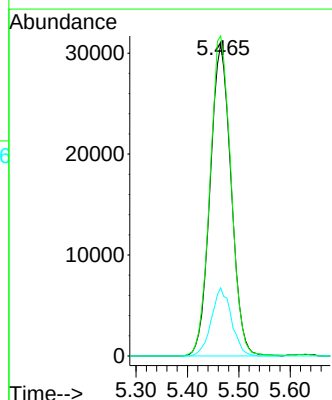
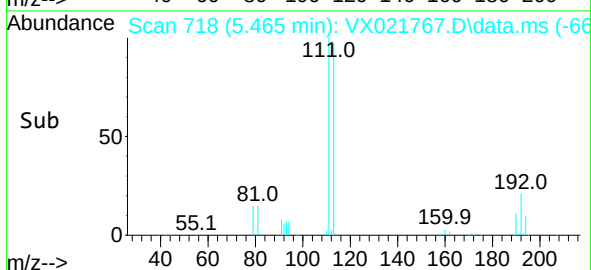
Tgt Ion:114 Resp: 275720  
Ion Ratio Lower Upper  
114 100  
63 18.1 0.0 40.8  
88 15.7 0.0 32.8

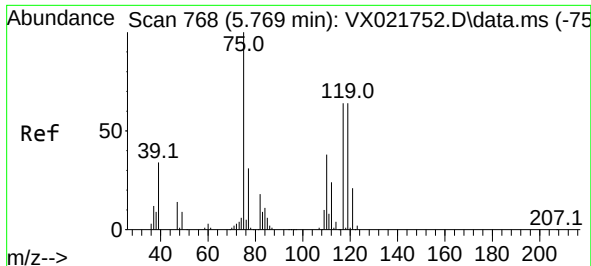


#35  
Dibromofluoromethane  
Concen: 49.55 ug/l  
RT: 5.465 min Scan# 718  
Delta R.T. 0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39



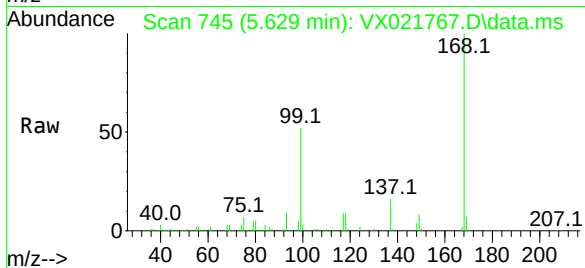
Tgt Ion:113 Resp: 87360  
Ion Ratio Lower Upper  
113 100  
111 103.1 81.9 122.9  
192 20.9 16.7 25.1



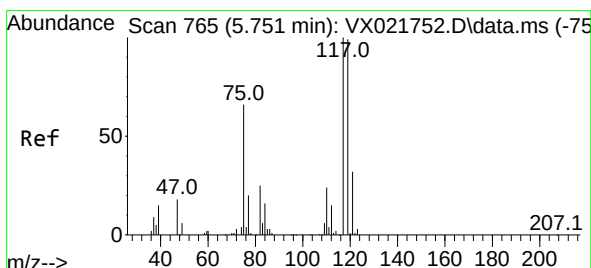
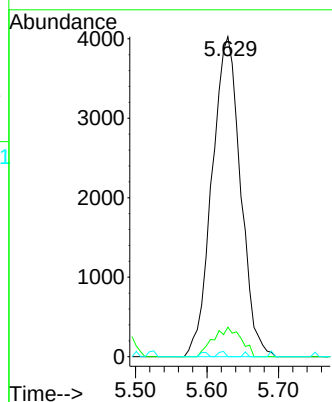
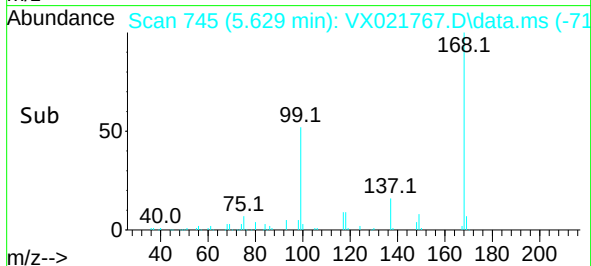


#36  
1,1-Dichloropropene  
Concen: 4.58 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.140 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

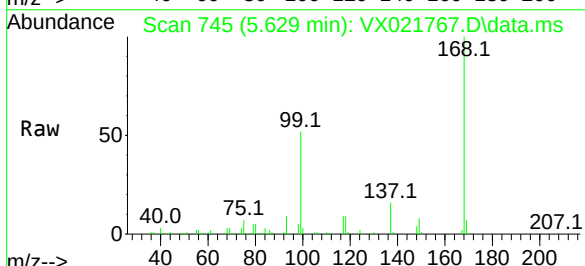
Instrument :  
MSVOA\_X  
ClientSampleId :



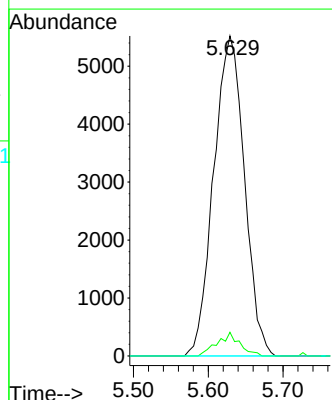
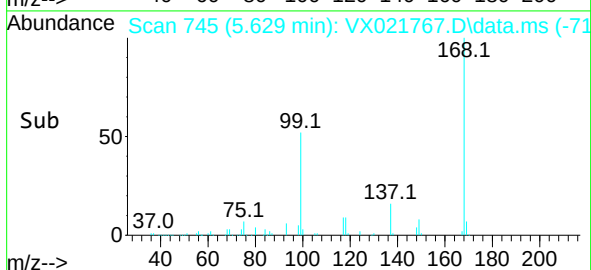
Tgt Ion: 75 Resp: 11156  
Ion Ratio Lower Upper  
75 100  
110 8.9 18.1 54.4#  
77 0.4 25.3 37.9#

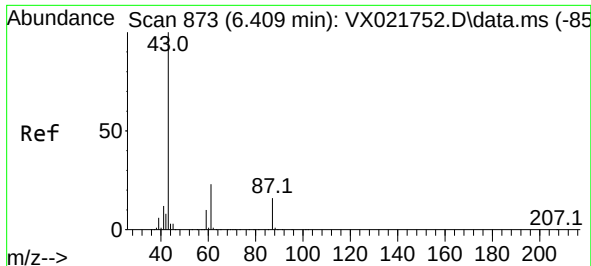


#38  
Carbon Tetrachloride  
Concen: 5.93 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.122 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39



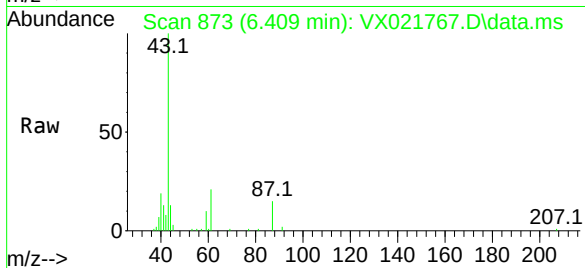
Tgt Ion: 117 Resp: 15793  
Ion Ratio Lower Upper  
117 100  
119 7.4 76.2 114.2#  
121 0.0 24.8 37.2#



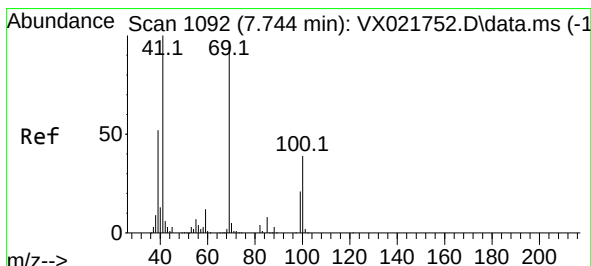
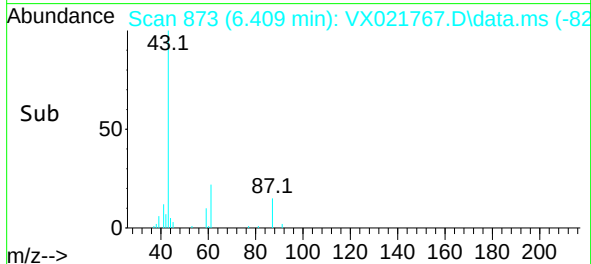
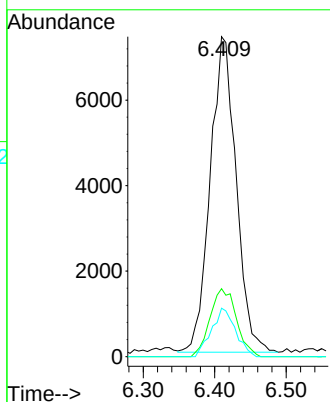


#43  
Isopropyl Acetate  
Concen: 4.65 ug/l  
RT: 6.409 min Scan# 873  
Delta R.T. 0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

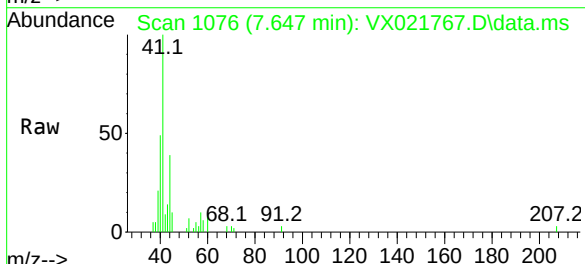
Instrument :  
MSVOA\_X  
ClientSampleId :



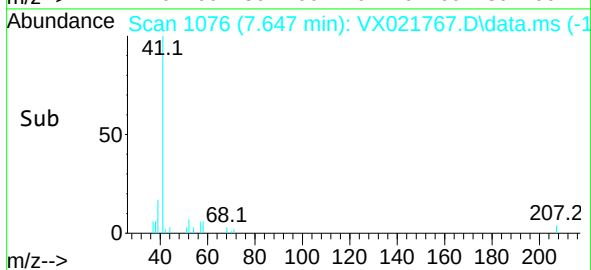
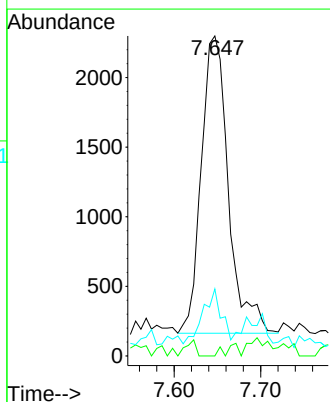
Tgt Ion: 43 Resp: 18616  
Ion Ratio Lower Upper  
43 100  
61 21.9 18.2 27.4  
87 14.1 12.5 18.7

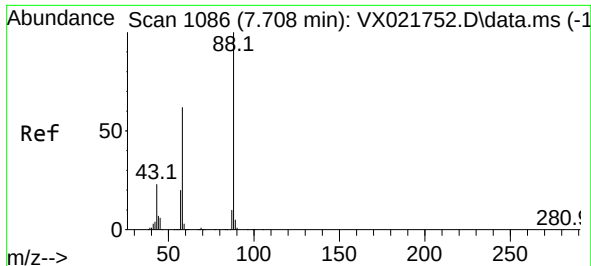


#48  
Methyl methacrylate  
Concen: 2.39 ug/l  
RT: 7.647 min Scan# 1076  
Delta R.T. -0.097 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39



Tgt Ion: 41 Resp: 4660  
Ion Ratio Lower Upper  
41 100  
69 0.0 76.0 114.0#  
39 0.0 44.6 67.0#

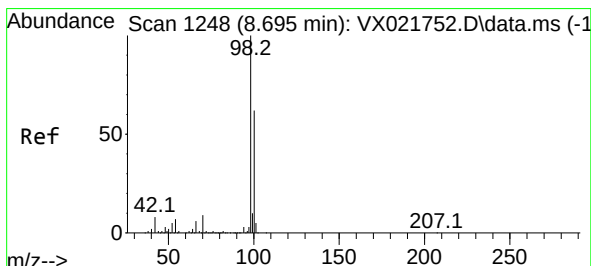
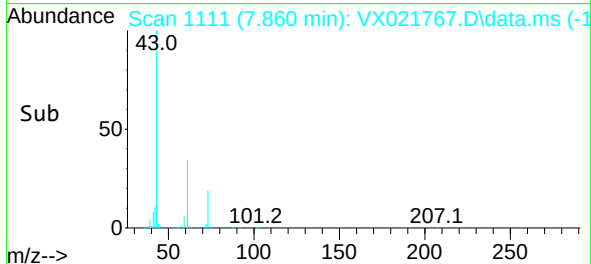
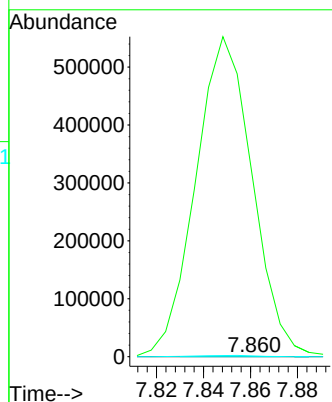
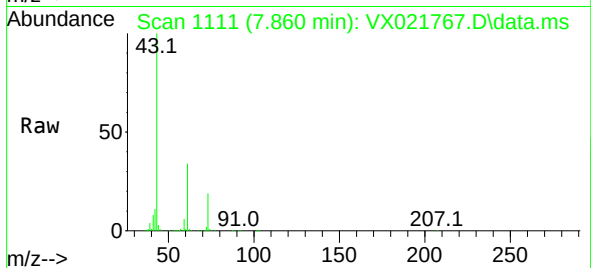




#49  
1,4-Dioxane  
Concen: 2.88 ug/l  
RT: 7.860 min Scan# 1111  
Delta R.T. 0.152 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

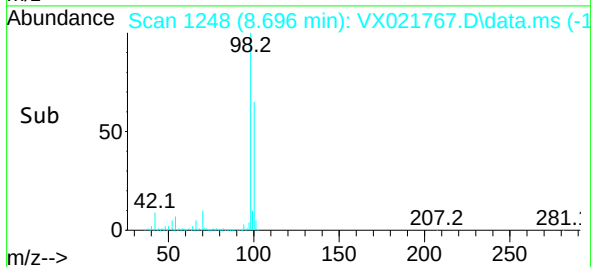
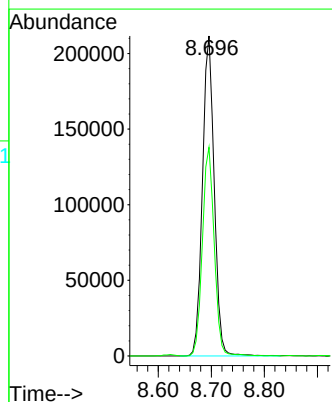
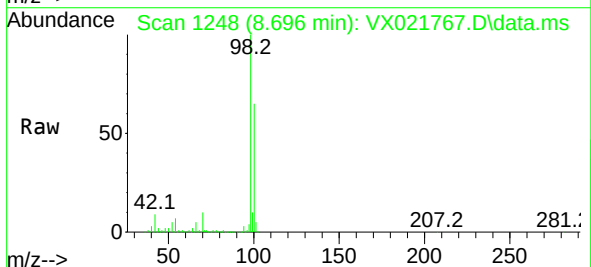
Instrument :  
MSVOA\_X  
ClientSampled :

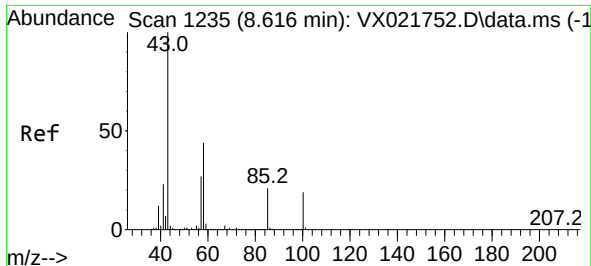
Tgt Ion: 88 Resp: 132  
Ion Ratio Lower Upper  
88 100  
43 708574.2 23.2 34.8#  
58 2892.4 55.0 82.4#



#50  
Toluene-d8  
Concen: 48.16 ug/l  
RT: 8.696 min Scan# 1248  
Delta R.T. 0.001 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Tgt Ion: 98 Resp: 326519  
Ion Ratio Lower Upper  
98 100  
100 65.7 51.9 77.9

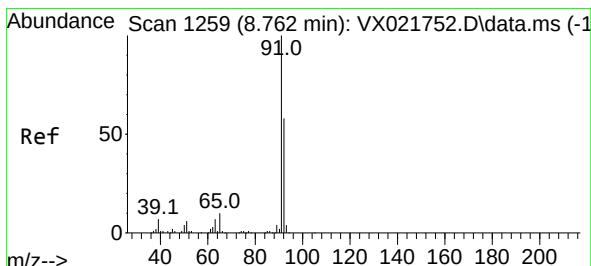
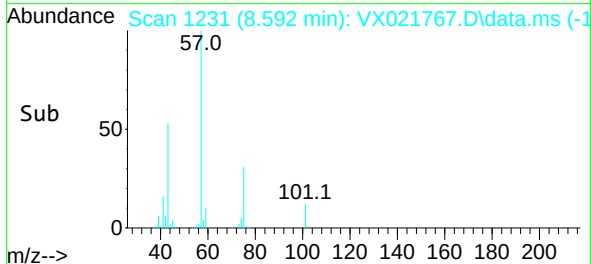
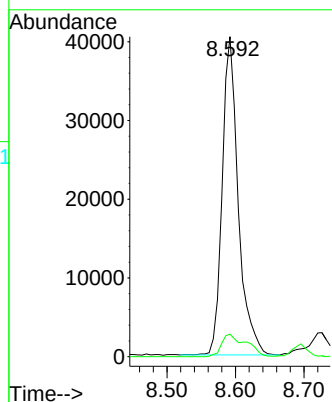
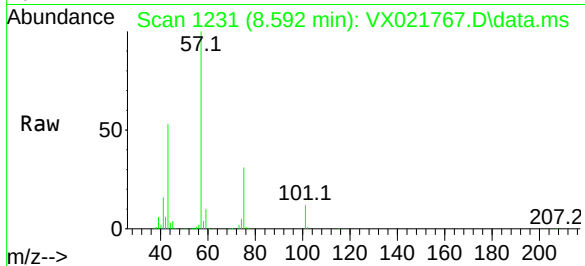




#51  
4-Methyl-2-Pentanone  
Concen: 28.55 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. -0.024 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

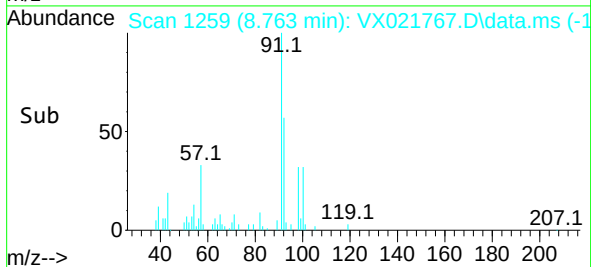
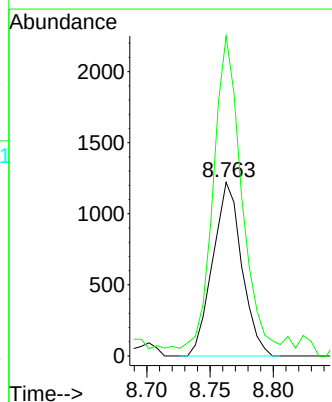
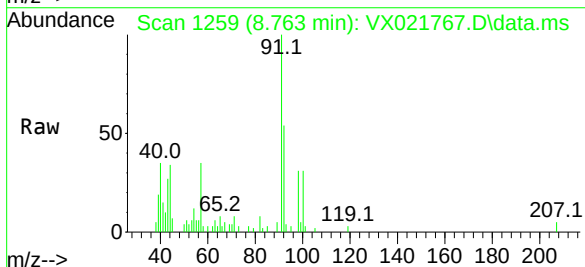
Instrument :  
MSVOA\_X  
ClientSampled :

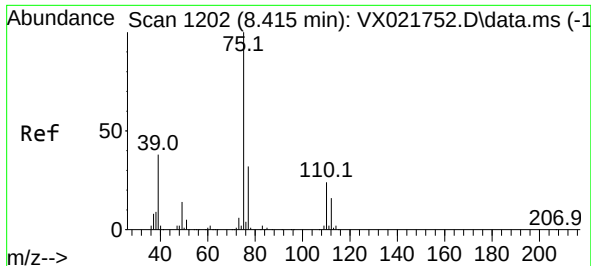
Tgt Ion: 43 Resp: 65487  
Ion Ratio Lower Upper  
43 100  
58 10.9 35.4 53.0#



#52  
Toluene  
Concen: 0.41 ug/l  
RT: 8.763 min Scan# 1259  
Delta R.T. 0.001 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Tgt Ion: 92 Resp: 1947  
Ion Ratio Lower Upper  
92 100  
91 171.0 137.1 205.7

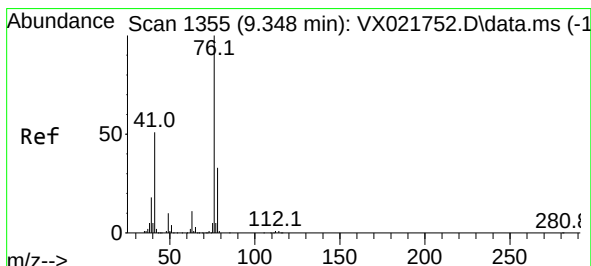
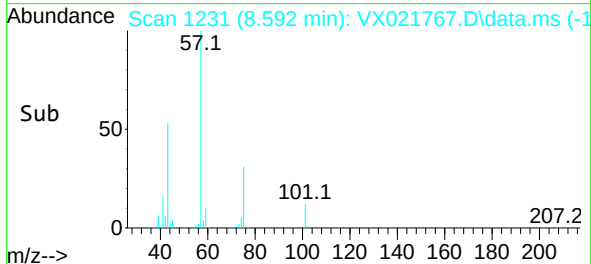
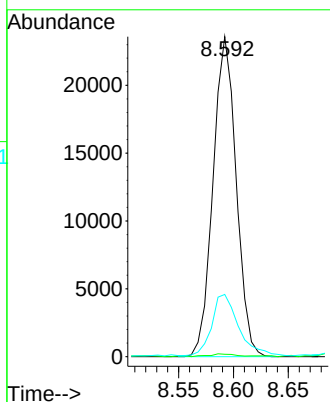
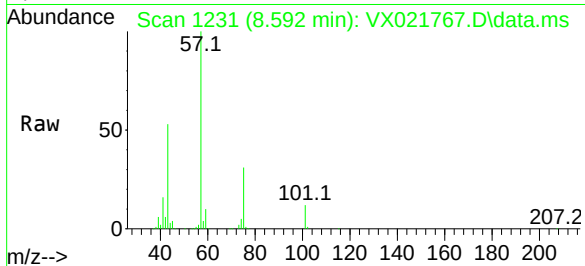




#54  
cis-1,3-Dichloropropene  
Concen: 10.73 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. 0.177 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

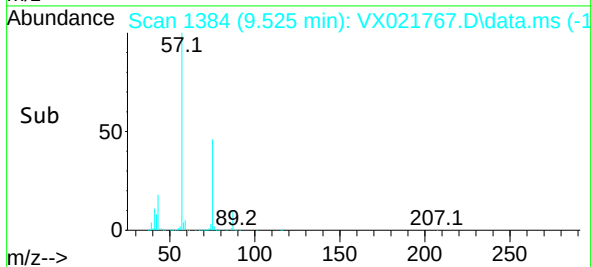
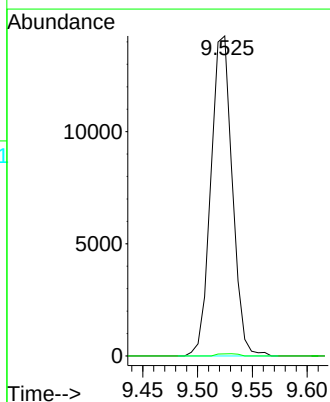
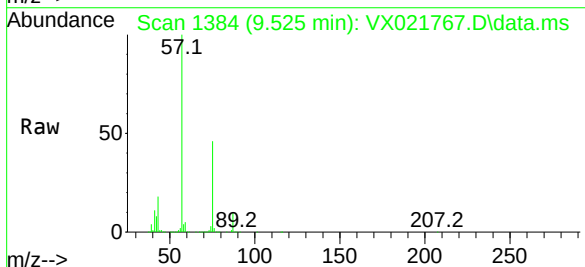
Instrument :  
MSVOA\_X  
ClientSampled :

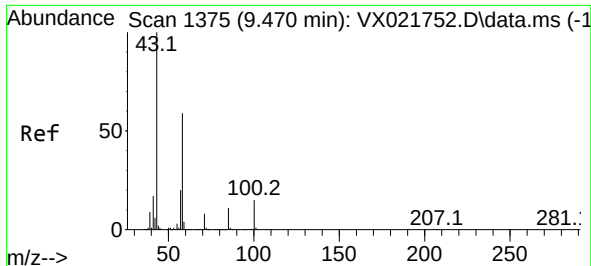
Tgt Ion: 75 Resp: 34666  
Ion Ratio Lower Upper  
75 100  
77 0.7 25.7 38.5#  
39 19.1 35.1 52.7#



#57  
1,3-Dichloropropane  
Concen: 6.25 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.177 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Tgt Ion: 76 Resp: 19415  
Ion Ratio Lower Upper  
76 100  
78 0.7 26.2 39.2#

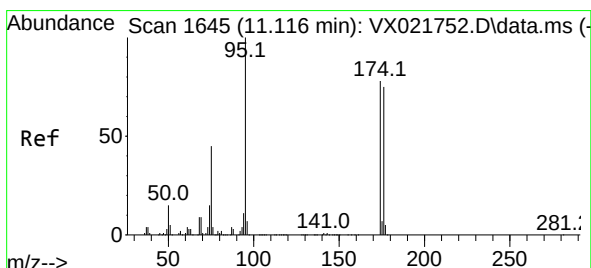
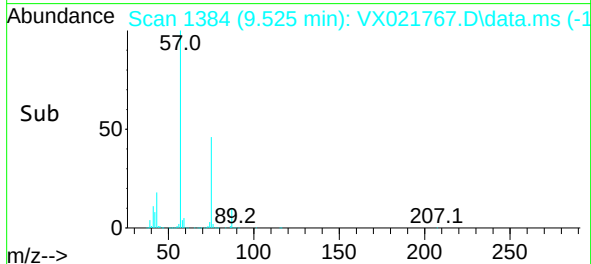
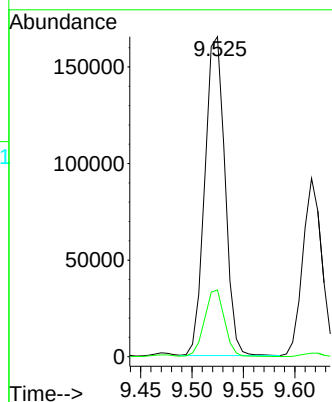
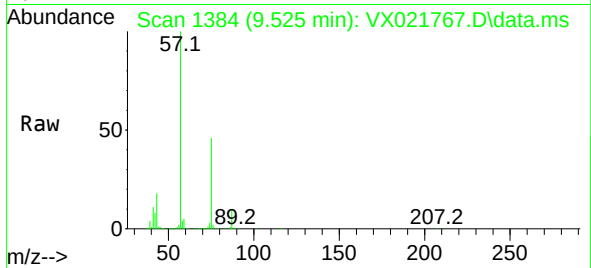




#59  
2-Hexanone  
Concen: 131.33 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.055 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

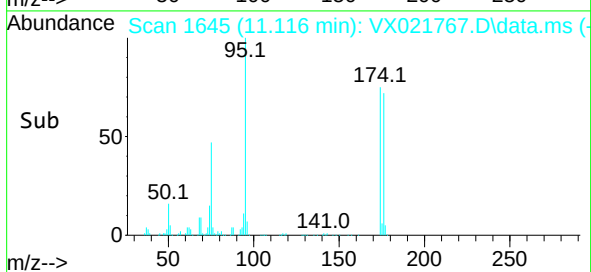
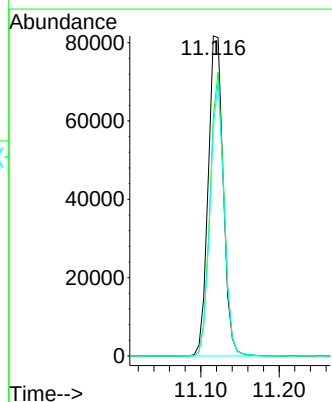
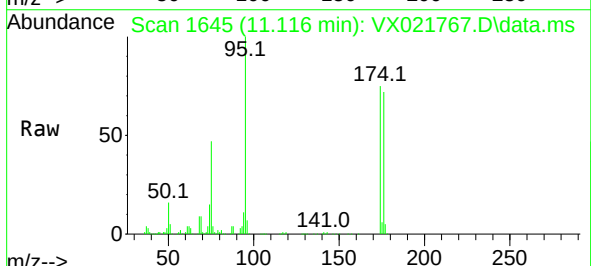
Instrument :  
MSVOA\_X  
ClientSampled :

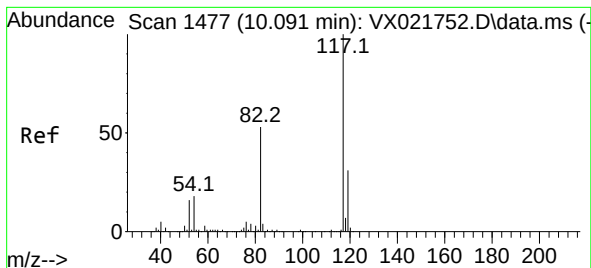
Tgt Ion: 43 Resp: 225813  
Ion Ratio Lower Upper  
43 100  
58 21.0 30.9 92.8#



#62  
4-Bromofluorobenzene  
Concen: 42.89 ug/l  
RT: 11.116 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Tgt Ion: 95 Resp: 108581  
Ion Ratio Lower Upper  
95 100  
174 83.0 0.0 154.6  
176 79.8 0.0 155.8

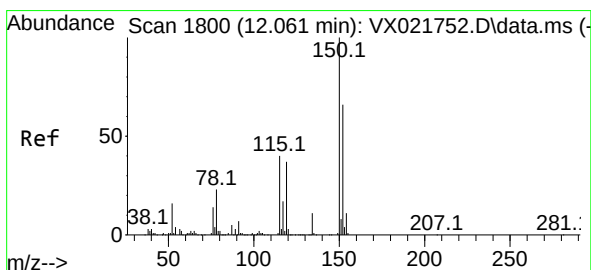
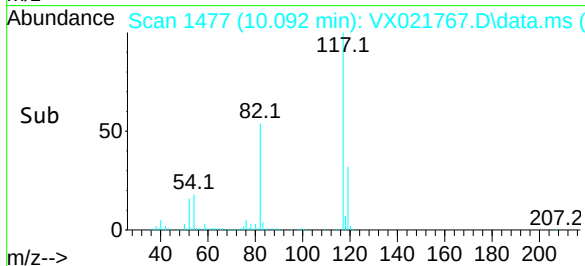
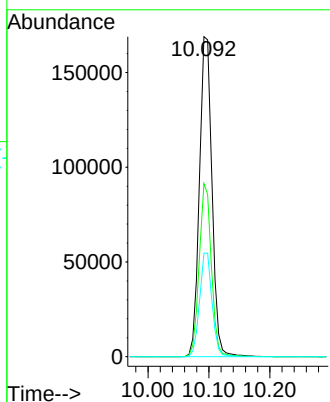
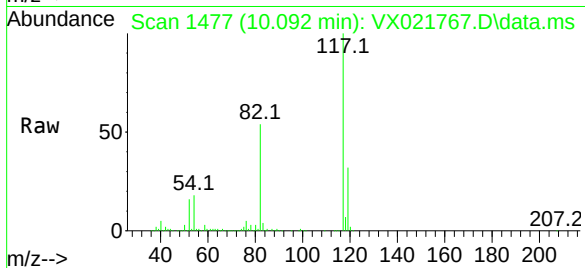




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.092 min Scan# 1477  
Delta R.T. 0.001 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

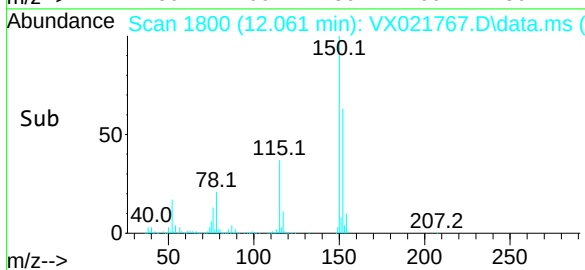
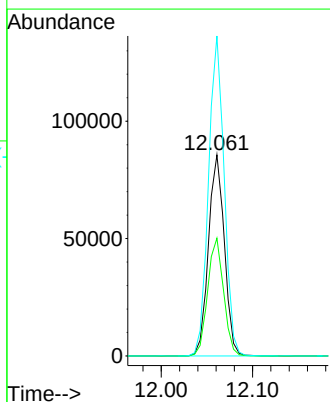
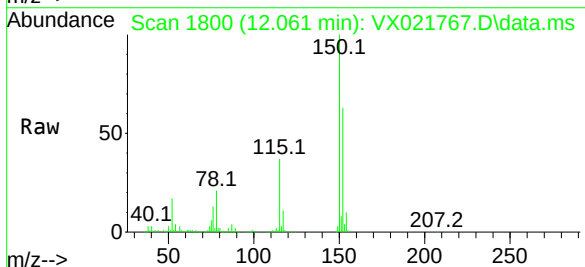
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion:117 Resp: 241824  
Ion Ratio Lower Upper  
117 100  
82 54.1 47.4 71.2  
119 32.4 26.6 39.8

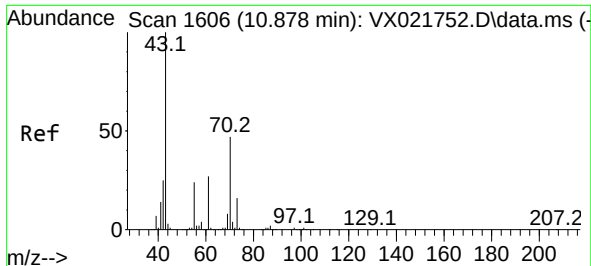


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.061 min Scan# 1800  
Delta R.T. -0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Tgt Ion:152 Resp: 103337  
Ion Ratio Lower Upper  
152 100  
115 58.4 41.1 123.3  
150 156.6 0.0 349.0



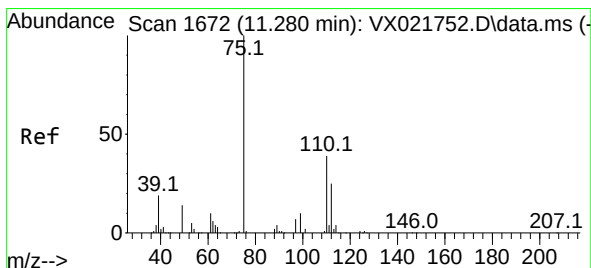
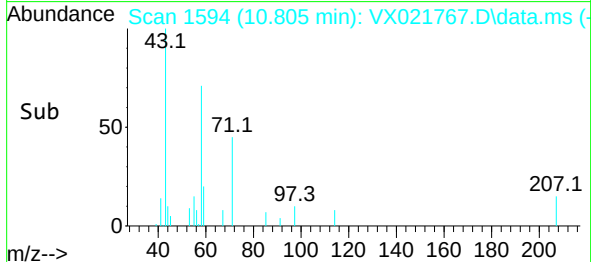
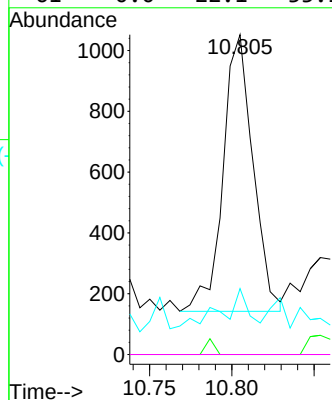
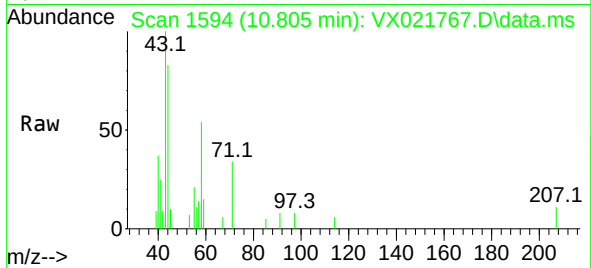




#74  
N-amy1 acetate  
Concen: 0.41 ug/l  
RT: 10.805 min Scan# 1594  
Delta R.T. -0.073 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

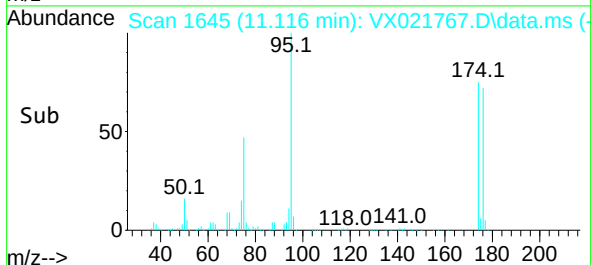
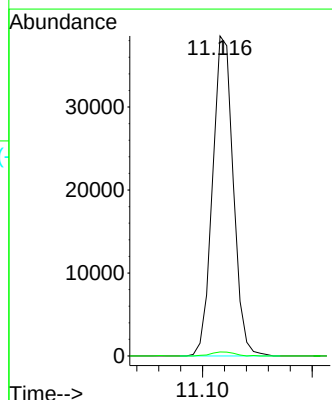
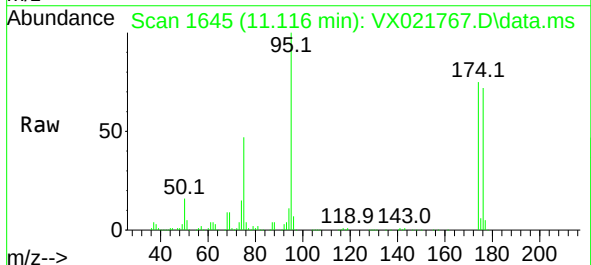
Instrument :  
MSVOA\_X  
ClientSampleId :

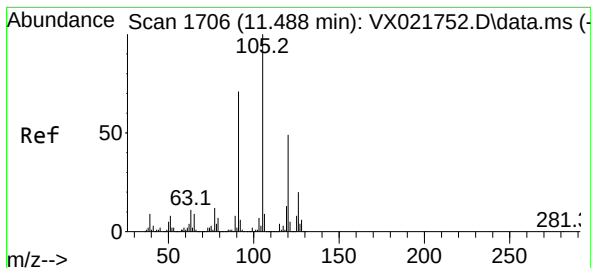
|             |                 |
|-------------|-----------------|
| Tgt Ion: 43 | Resp: 1155      |
| Ion Ratio   | Lower Upper     |
| 43          | 100             |
| 70          | 0.0 39.0 58.6#  |
| 55          | 10.4 21.5 32.3# |
| 61          | 0.0 22.1 33.1#  |



#76  
1,2,3-Trichloropropane  
Concen: 24.68 ug/l  
RT: 11.116 min Scan# 1645  
Delta R.T. -0.164 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 50572    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 77          | 1.4 19.1 57.5# |

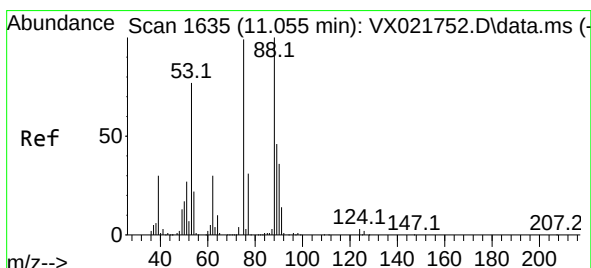
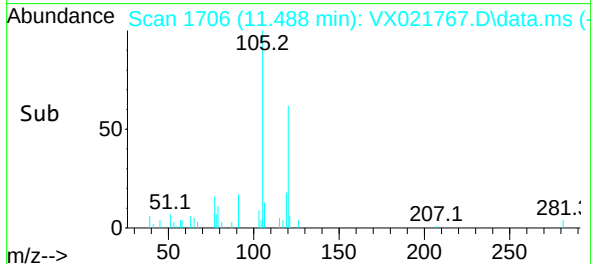
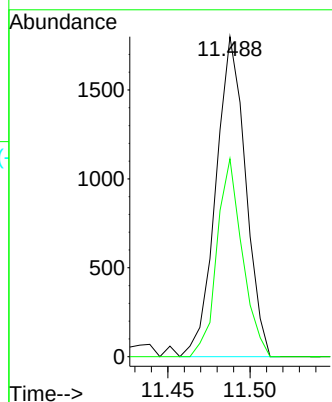
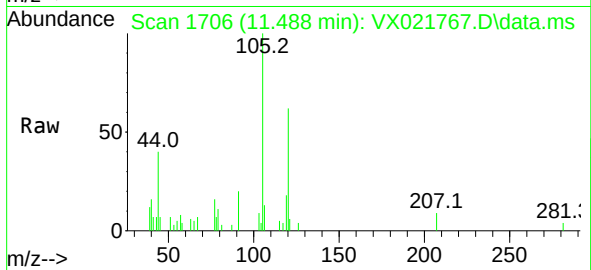




#80  
1,3,5-Trimethylbenzene  
Concen: 0.37 ug/l  
RT: 11.488 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion:105 Resp: 2257  
Ion Ratio Lower Upper  
105 100  
120 53.0 23.8 71.5



#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.75 ug/l  
RT: 11.116 min Scan# 1645  
Delta R.T. 0.061 min  
Lab File: VX021767.D  
Acq: 20 Apr 2021 20:39

Tgt Ion: 75 Resp: 50572  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

