

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042021\  
 Data File : VX021768.D  
 Acq On : 20 Apr 2021 21:02  
 Operator : JC/MD  
 Sample : PB135856ZHE#02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Apr 21 11:25:03 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

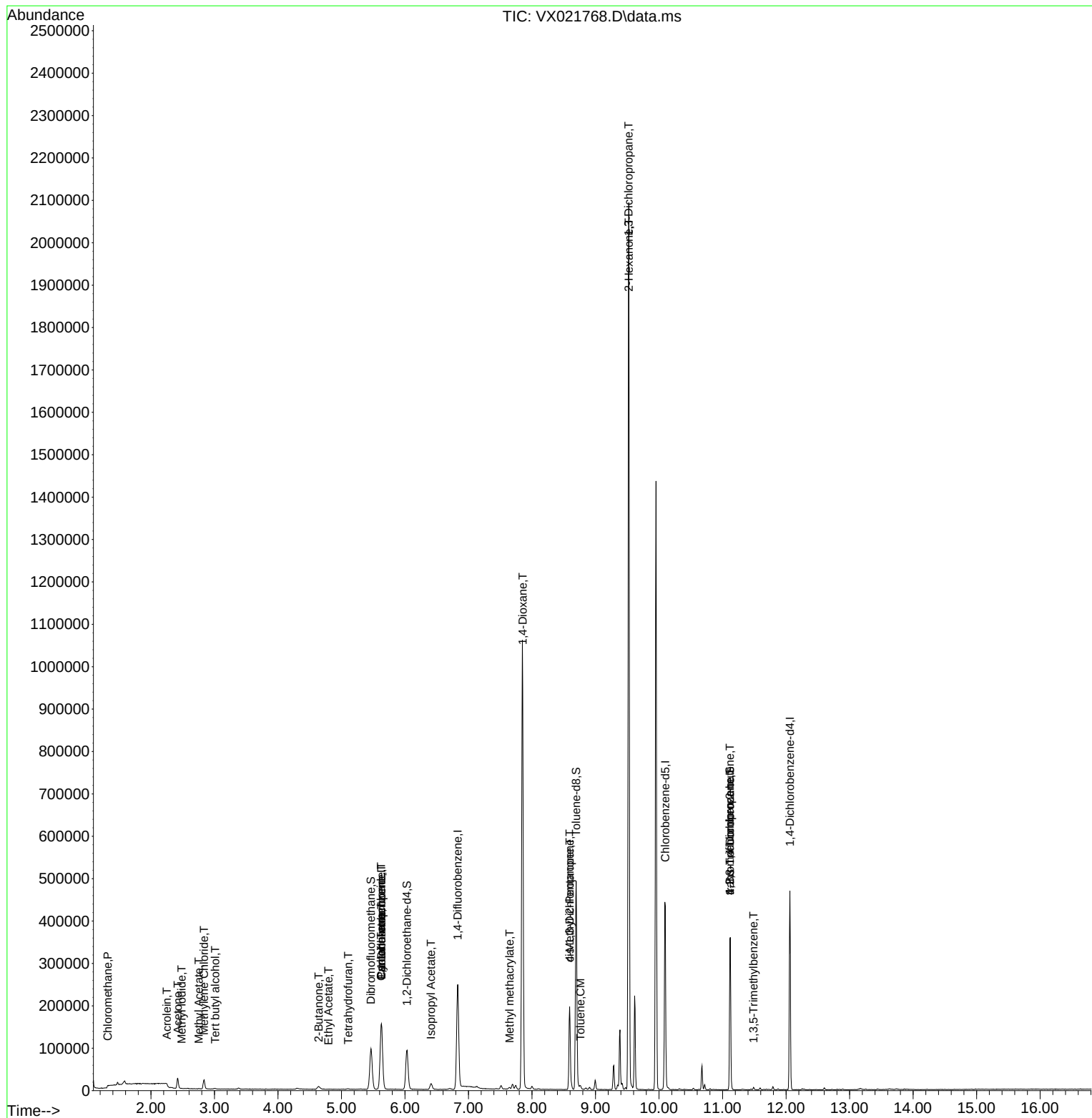
| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) Pentafluorobenzene         | 5.629          | 168  | 155627             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.830          | 114  | 259888             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.098         | 117  | 224242             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061         | 152  | 99100              | 50.00  | ug/l   | 0.00     |
|                               |                |      |                    |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.031          | 65   | 88334              | 50.03  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 100.06% |        |        |          |
| 35) Dibromofluoromethane      | 5.464          | 113  | 83525              | 50.26  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.52% |        |        |          |
| 50) Toluene-d8                | 8.695          | 98   | 307160             | 48.07  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 96.14%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.116         | 95   | 104366             | 43.73  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 87.46%  |        |        |          |
|                               |                |      |                    |        |        |          |
| Target Compounds              |                |      |                    |        |        | Qvalue   |
| 3) Chloromethane              | 1.319          | 50   | 3755               | 2.20   | ug/l   | 93       |
| 10) Methyl Iodide             | 2.483          | 142  | 253                | 8.33   | ug/l # | 42       |
| 11) Tert butyl alcohol        | 3.014          | 59   | 1620               | 4.19   | ug/l # | 79       |
| 13) Acrolein                  | 2.252          | 56   | 331                | 1.06   | ug/l # | 14       |
| 16) Acetone                   | 2.422          | 43   | 25104              | 41.36  | ug/l   | 96       |
| 18) Methyl Acetate            | 2.751          | 43   | 991                | 0.60   | ug/l   | 92       |
| 20) Methylene Chloride        | 2.837          | 84   | 10583              | 5.82   | ug/l   | 92       |
| 25) 2-Butanone                | 4.641          | 43   | 10500              | 10.22  | ug/l   | 99       |
| 29) Tetrahydrofuran           | 5.105          | 42   | 1446               | 2.16   | ug/l # | 63       |
| 31) Cyclohexane               | 5.629          | 56   | 3057               | 1.23   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.629          | 75   | 10148              | 4.42   | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.794          | 43   | 445                | 0.21   | ug/l # | 64       |
| 38) Carbon Tetrachloride      | 5.623          | 117  | 14661              | 5.84   | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.409          | 43   | 17950              | 4.75   | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.647          | 41   | 4894               | 2.66   | ug/l # | 11       |
| 49) 1,4-Dioxane               | 7.854          | 88   | 145                | 3.35   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.592          | 43   | 65020              | 30.07  | ug/l # | 49       |
| 52) Toluene                   | 8.763          | 92   | 1920               | 0.43   | ug/l   | 87       |
| 54) cis-1,3-Dichloropropene   | 8.592          | 75   | 33993              | 11.16  | ug/l # | 56       |
| 57) 1,3-Dichloropropane       | 9.518          | 76   | 18971              | 6.48   | ug/l # | 44       |
| 59) 2-Hexanone                | 9.525          | 43   | 224242             | 138.36 | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 11.116         | 75   | 48306              | 24.58  | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 11.488         | 105  | 2399               | 0.41   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.116         | 75   | 48306              | 56.52  | ug/l # | 12       |
| -----                         |                |      |                    |        |        |          |

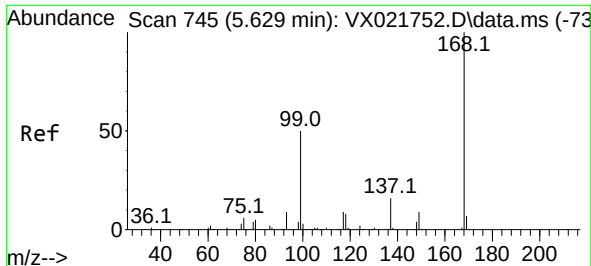
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042021\  
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Acq On : 20 Apr 2021 21:02  
Operator : JC/MD  
Sample : PB135856ZHE#02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Apr 21 11:25:03 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

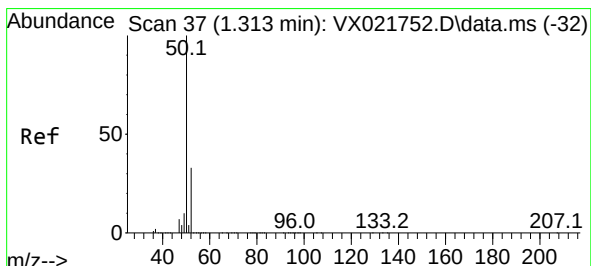
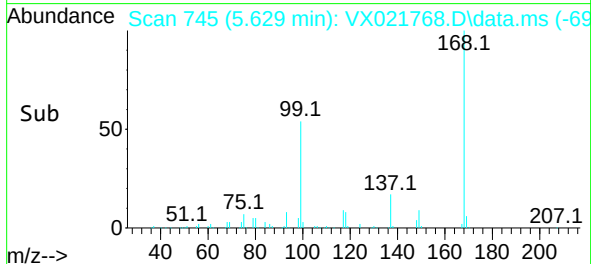
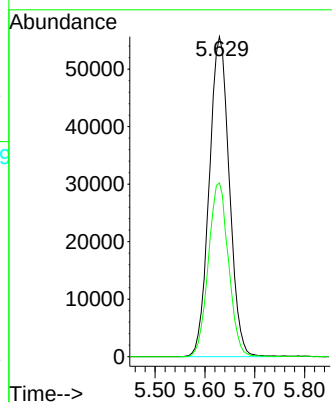
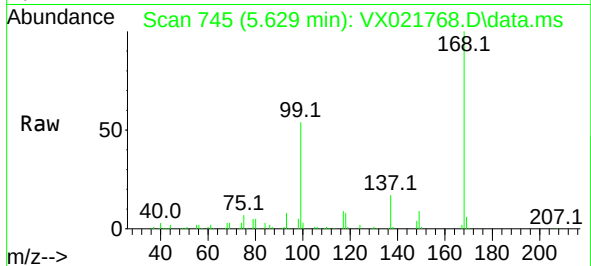




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

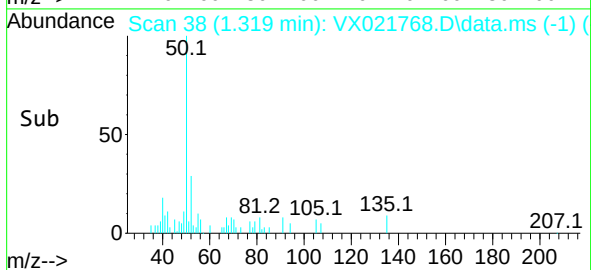
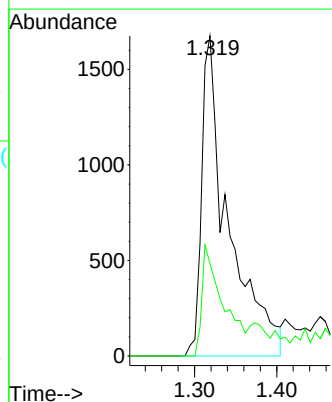
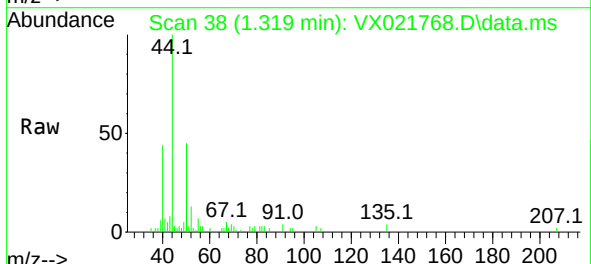
Instrument :  
MSVOA\_X  
ClientSampled :

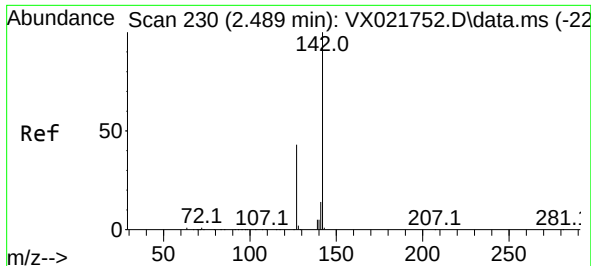
Tgt Ion:168 Resp: 155627  
Ion Ratio Lower Upper  
168 100  
99 54.3 45.8 68.6



#3  
Chloromethane  
Concen: 2.20 ug/l  
RT: 1.319 min Scan# 38  
Delta R.T. 0.006 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

Tgt Ion: 50 Resp: 3755  
Ion Ratio Lower Upper  
50 100  
52 28.9 26.4 39.6





#10

Methyl Iodide

Concen: 8.33 ug/l

RT: 2.483 min Scan# 229

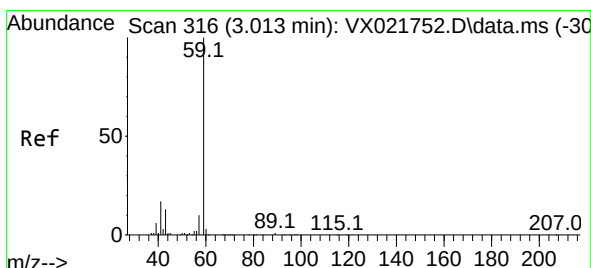
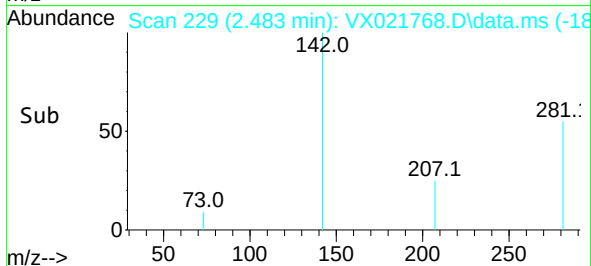
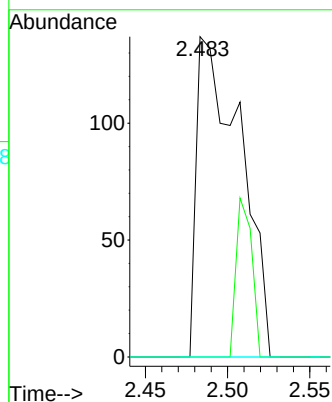
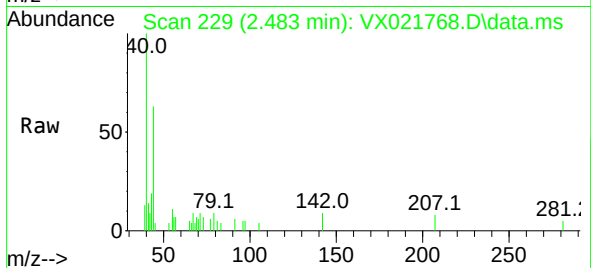
Delta R.T. -0.006 min

Lab File: VX021768.D

Acq: 20 Apr 2021 21:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 253   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 0.0   | 33.3  | 49.9# |
| 141      | 0.0   | 11.4  | 17.0# |

Instrument :  
MSVOA\_X  
ClientSampled :



#11

Tert butyl alcohol

Concen: 4.19 ug/l

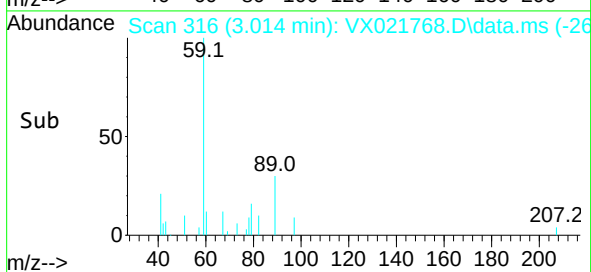
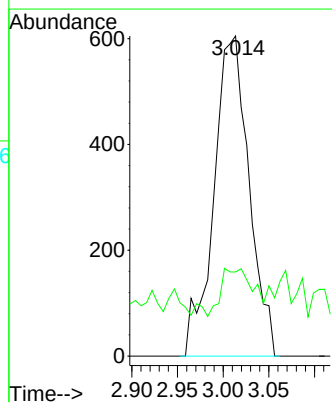
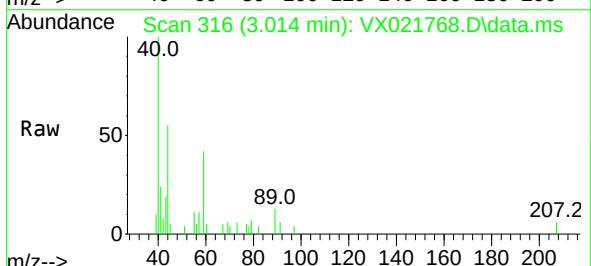
RT: 3.014 min Scan# 316

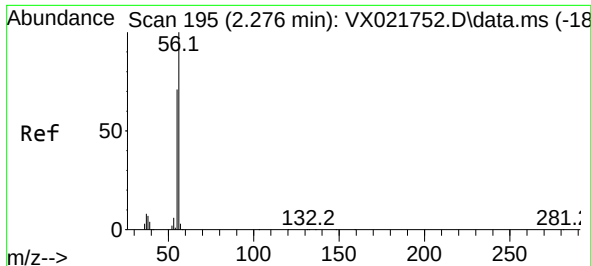
Delta R.T. 0.001 min

Lab File: VX021768.D

Acq: 20 Apr 2021 21:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 1620  |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 17.5  | 7.8   | 11.8# |

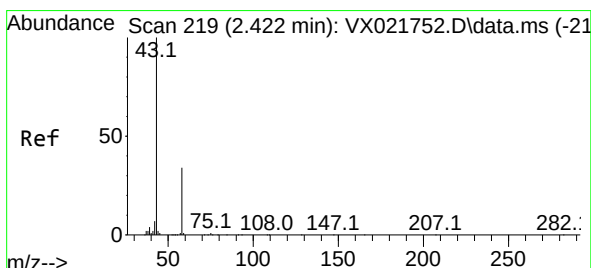
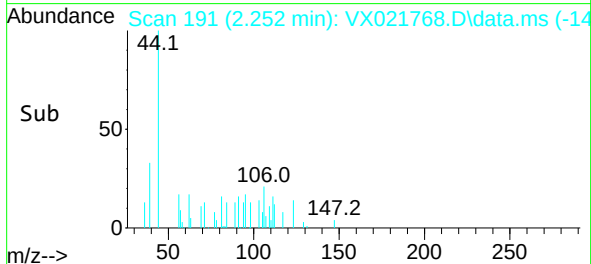
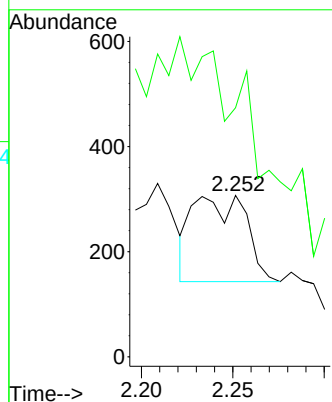
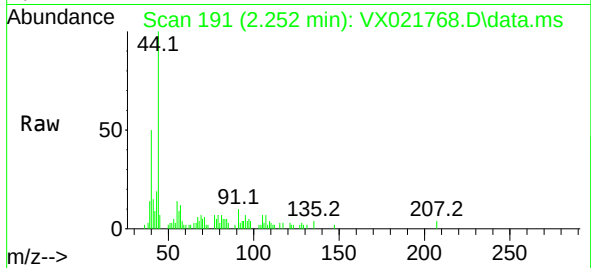




#13  
Acrolein  
Concen: 1.06 ug/l  
RT: 2.252 min Scan# 191  
Delta R.T. -0.024 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

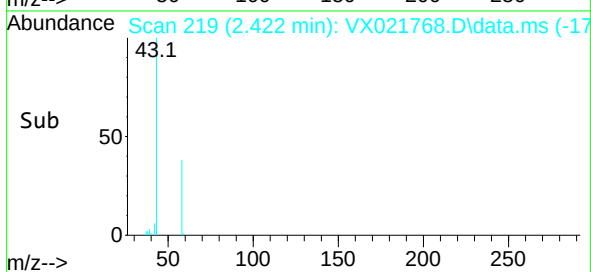
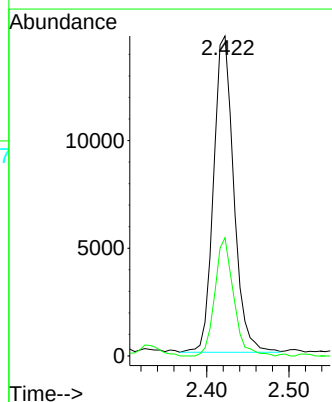
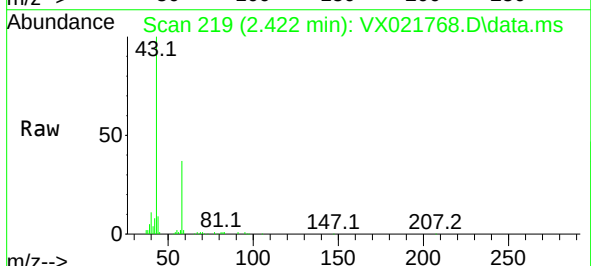
Instrument :  
MSVOA\_X  
ClientSampled :

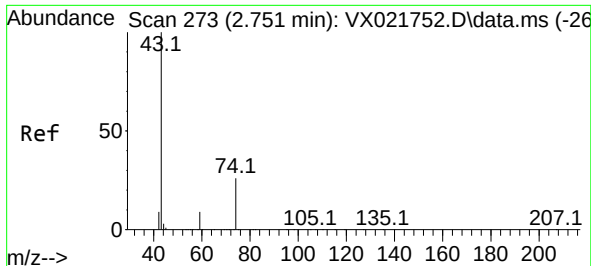
Tgt Ion: 56 Resp: 331  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#



#16  
Acetone  
Concen: 41.36 ug/l  
RT: 2.422 min Scan# 219  
Delta R.T. 0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

Tgt Ion: 43 Resp: 25104  
Ion Ratio Lower Upper  
43 100  
58 37.4 27.8 41.8





#18

Methyl Acetate

Concen: 0.60 ug/l

RT: 2.751 min Scan# 273

Delta R.T. 0.000 min

Lab File: VX021768.D

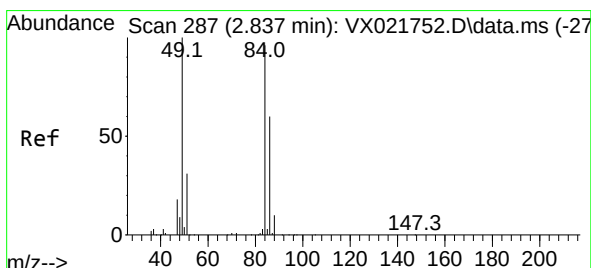
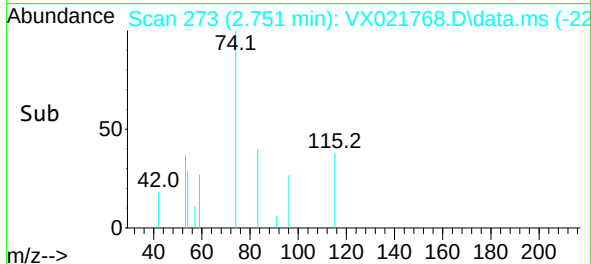
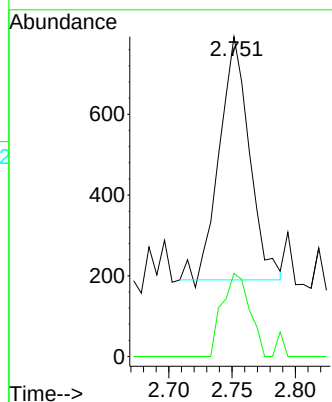
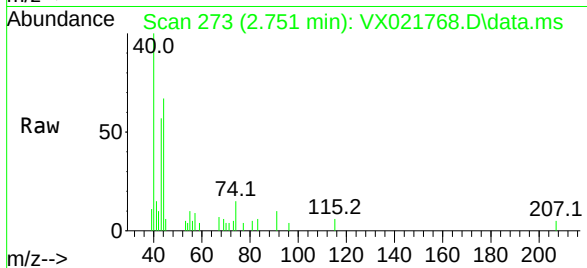
Acq: 20 Apr 2021 21:02

Tgt Ion: 43 Resp: 991

Ion Ratio Lower Upper

43 100

74 31.4 21.9 32.9



#20

Methylene Chloride

Concen: 5.82 ug/l

RT: 2.837 min Scan# 287

Delta R.T. -0.000 min

Lab File: VX021768.D

Acq: 20 Apr 2021 21:02

Tgt Ion: 84 Resp: 10583

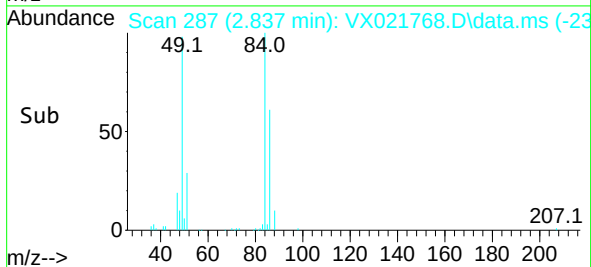
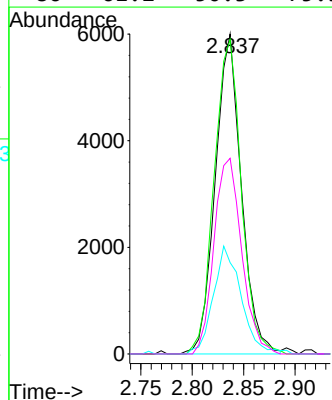
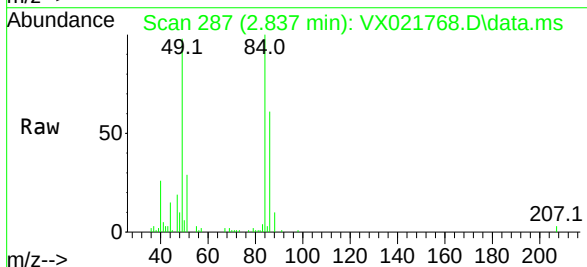
Ion Ratio Lower Upper

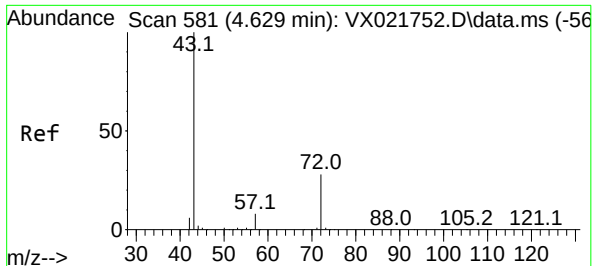
84 100

49 98.3 88.6 132.8

51 28.6 27.0 40.6

86 61.2 50.3 75.5





#25

2-Butanone

Concen: 10.22 ug/l

RT: 4.641 min Scan# 583

Delta R.T. 0.012 min

Lab File: VX021768.D

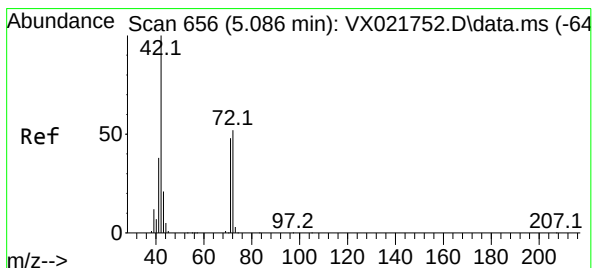
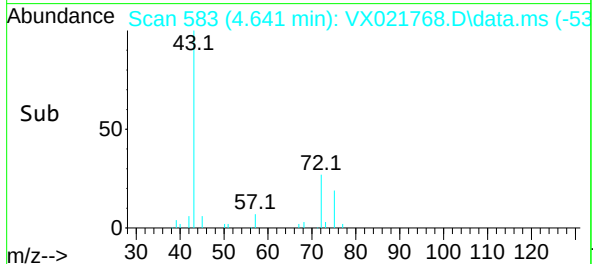
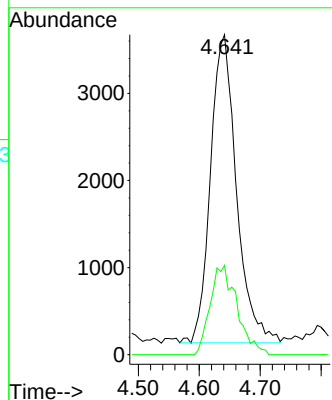
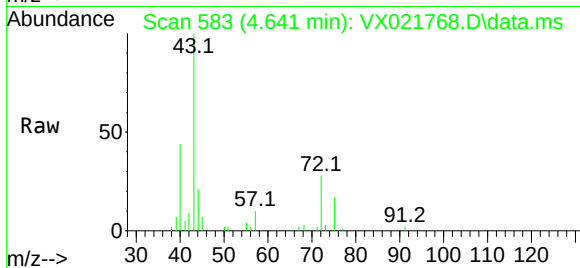
Acq: 20 Apr 2021 21:02

Tgt Ion: 43 Resp: 10500

Ion Ratio Lower Upper

43 100

72 29.0 23.7 35.5



#29

Tetrahydrofuran

Concen: 2.16 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.019 min

Lab File: VX021768.D

Acq: 20 Apr 2021 21:02

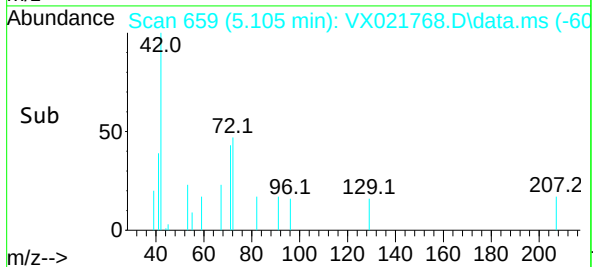
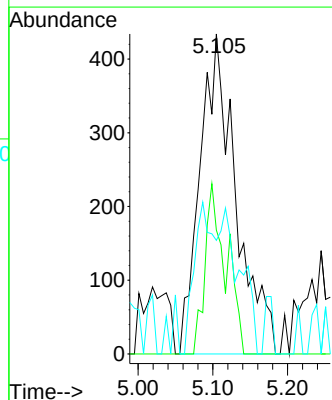
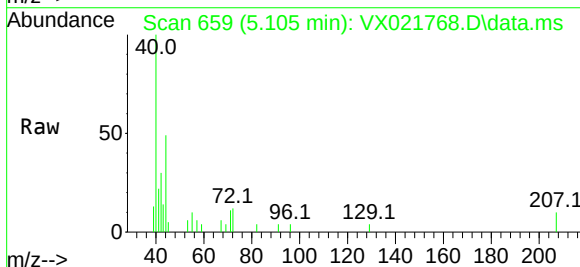
Tgt Ion: 42 Resp: 1446

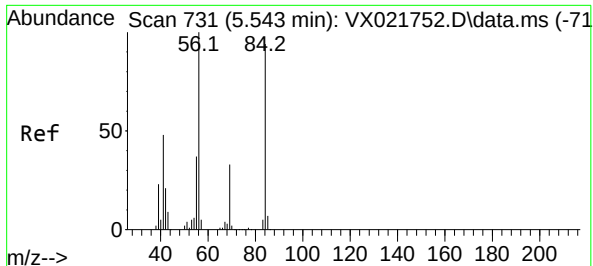
Ion Ratio Lower Upper

42 100

72 23.2 41.7 62.5#

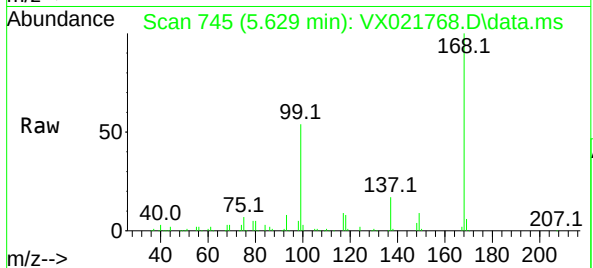
71 26.5 38.4 57.6#



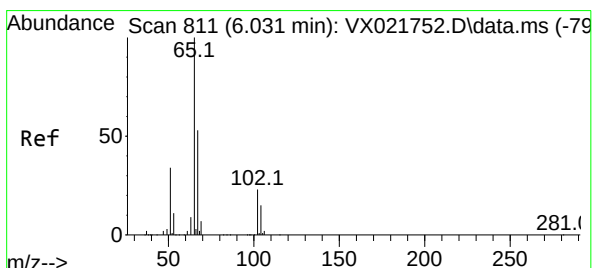
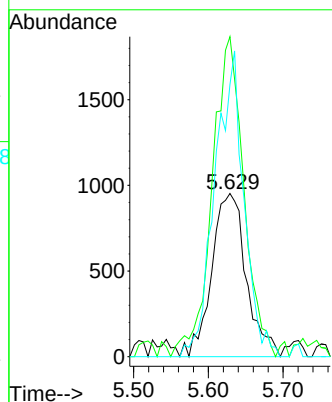
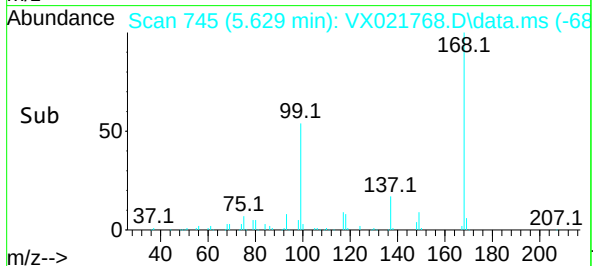


#31  
Cyclohexane  
Concen: 1.23 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.086 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

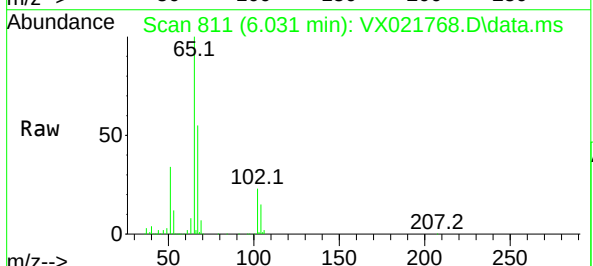
Instrument :  
MSVOA\_X  
ClientSampled :



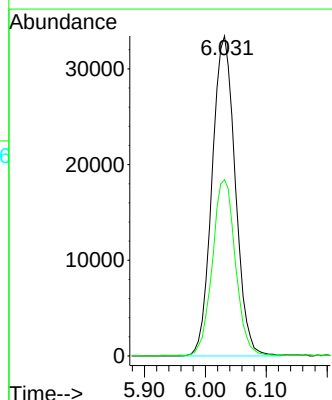
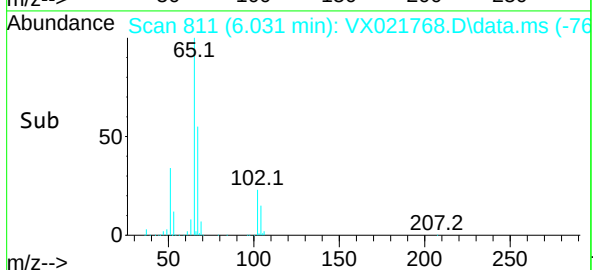
Tgt Ion: 56 Resp: 3057  
Ion Ratio Lower Upper  
56 100  
69 189.5 25.3 37.9#  
84 166.7 71.4 107.0#



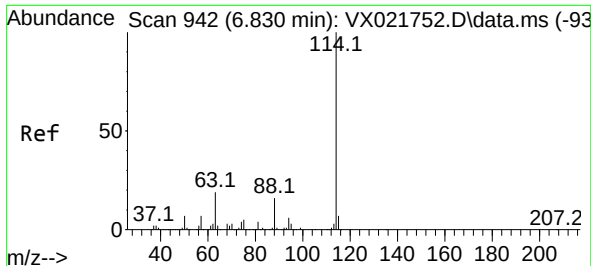
#33  
1,2-Dichloroethane-d4  
Concen: 50.03 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02



Tgt Ion: 65 Resp: 88334  
Ion Ratio Lower Upper  
65 100  
67 54.3 0.0 105.4

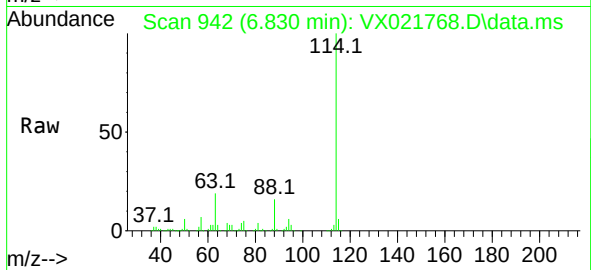




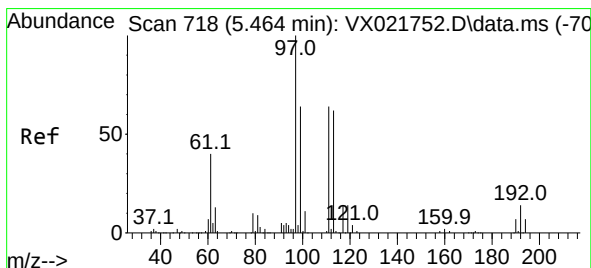
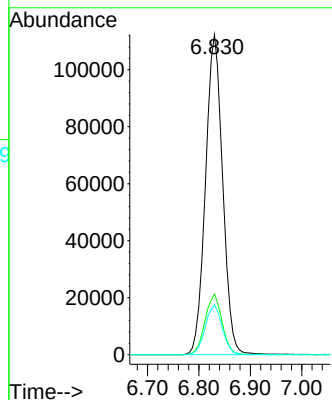
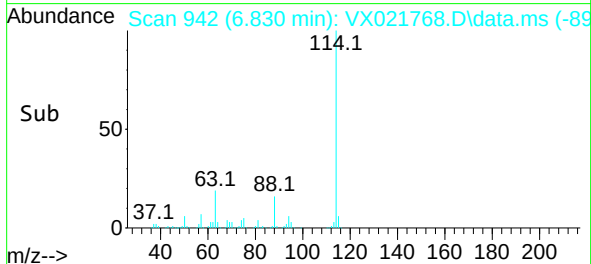


#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. -0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

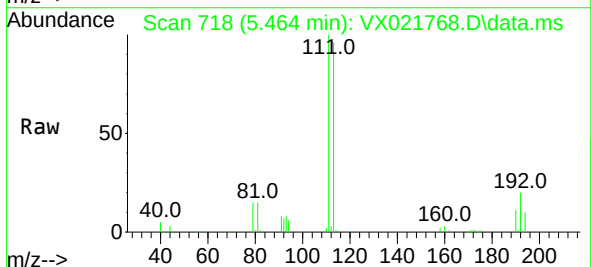
Instrument :  
MSVOA\_X  
ClientSampleId :



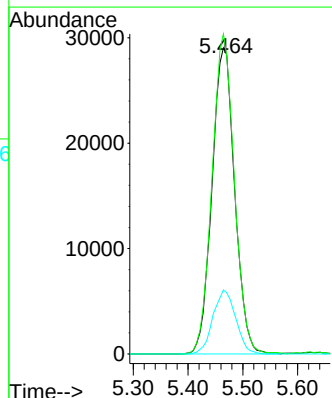
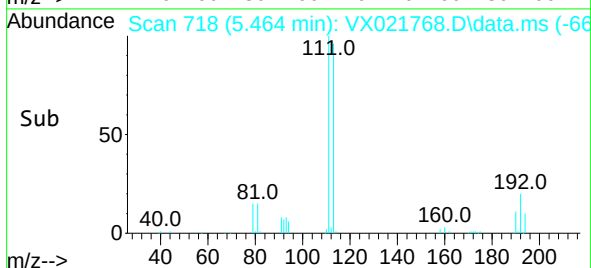
Tgt Ion:114 Resp: 259888  
Ion Ratio Lower Upper  
114 100  
63 18.9 0.0 40.8  
88 15.6 0.0 32.8

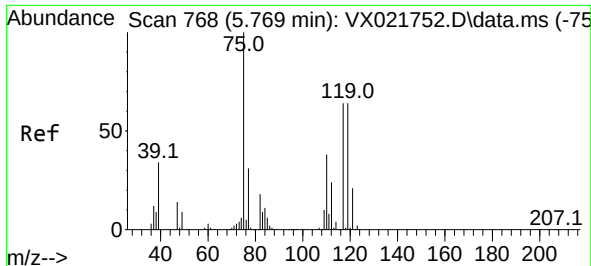


#35  
Dibromofluoromethane  
Concen: 50.26 ug/l  
RT: 5.464 min Scan# 718  
Delta R.T. 0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02



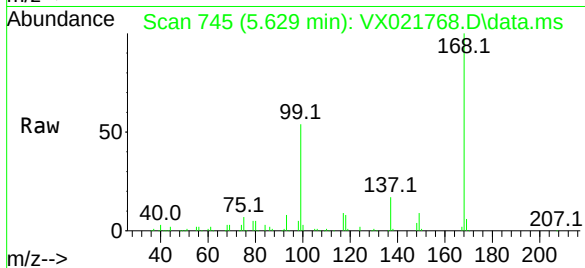
Tgt Ion:113 Resp: 83525  
Ion Ratio Lower Upper  
113 100  
111 102.7 81.9 122.9  
192 20.9 16.7 25.1



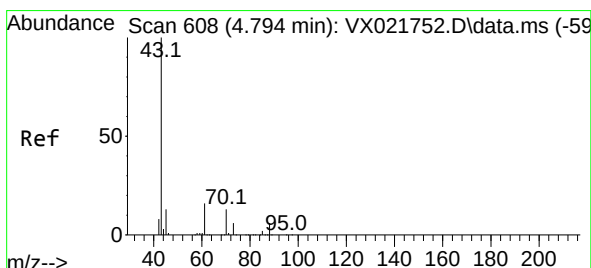
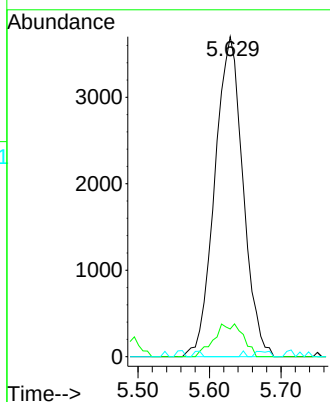
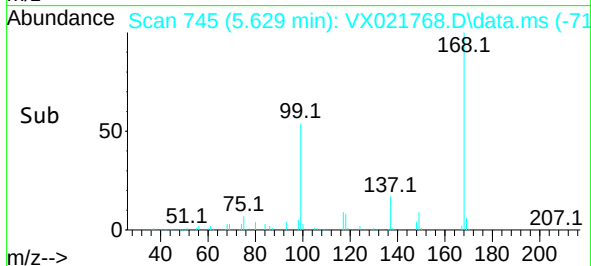


#36  
1,1-Dichloropropene  
Concen: 4.42 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.140 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

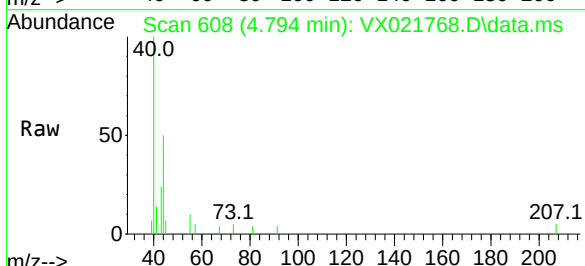
Instrument :  
MSVOA\_X  
ClientSampled :



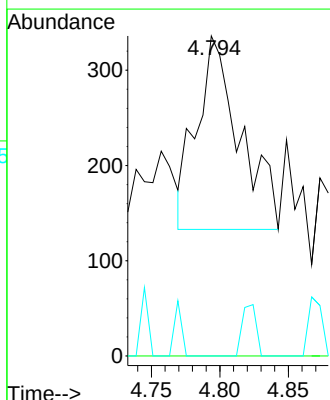
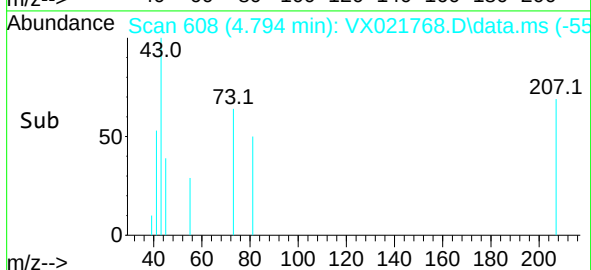
Tgt Ion: 75 Resp: 10148  
Ion Ratio Lower Upper  
75 100  
110 10.5 18.1 54.4#  
77 0.2 25.3 37.9#

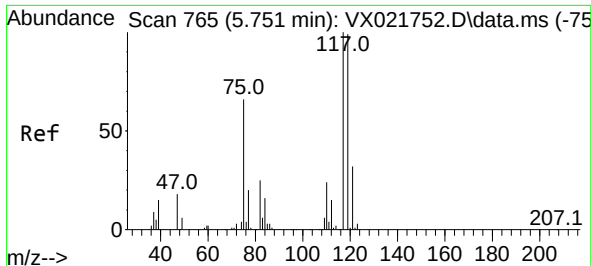


#37  
Ethyl Acetate  
Concen: 0.21 ug/l  
RT: 4.794 min Scan# 608  
Delta R.T. -0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02



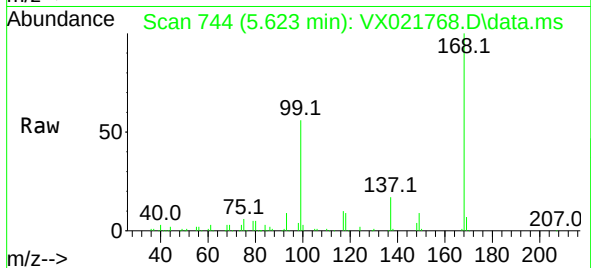
Tgt Ion: 43 Resp: 445  
Ion Ratio Lower Upper  
43 100  
61 0.0 12.8 19.2#  
70 0.0 10.5 15.7#



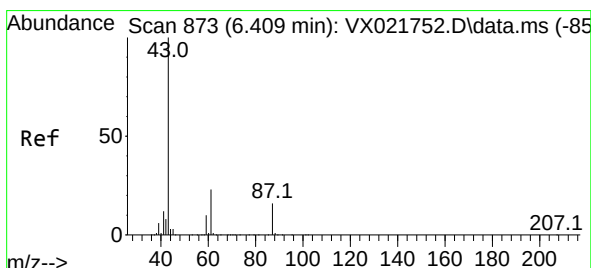
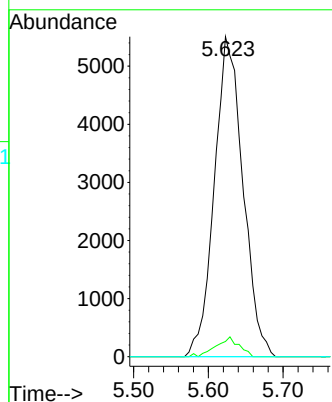
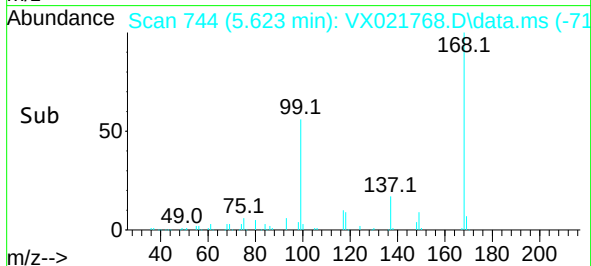


#38  
Carbon Tetrachloride  
Concen: 5.84 ug/l  
RT: 5.623 min Scan# 744  
Delta R.T. -0.128 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

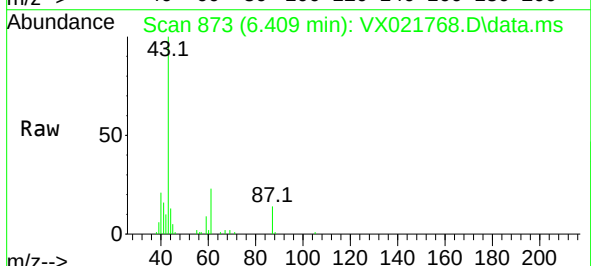
Instrument :  
MSVOA\_X  
ClientSampled :



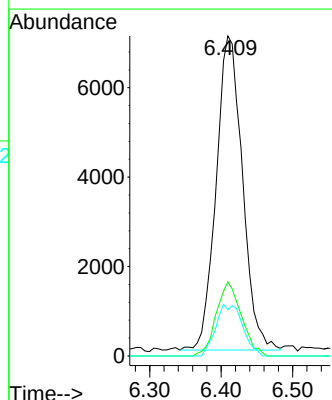
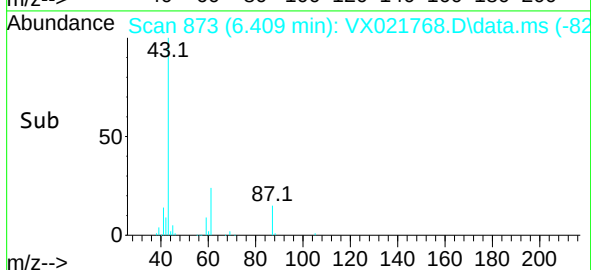
Tgt Ion: 117 Resp: 14661  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.2 114.2#  
121 0.0 24.8 37.2#

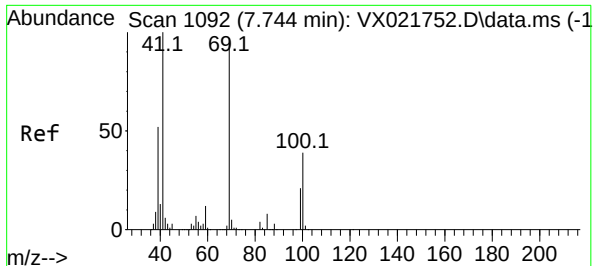


#43  
Isopropyl Acetate  
Concen: 4.75 ug/l  
RT: 6.409 min Scan# 873  
Delta R.T. 0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02



Tgt Ion: 43 Resp: 17950  
Ion Ratio Lower Upper  
43 100  
61 22.5 18.2 27.4  
87 16.7 12.5 18.7

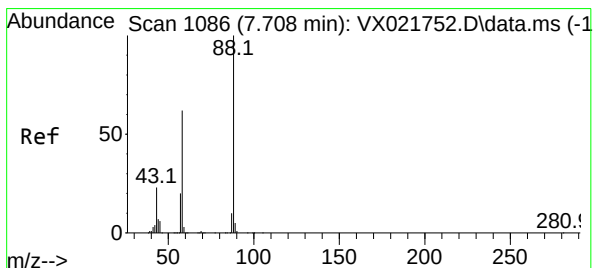
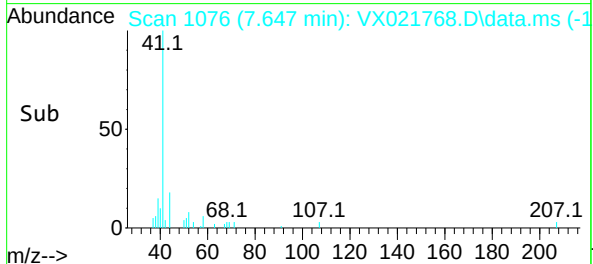
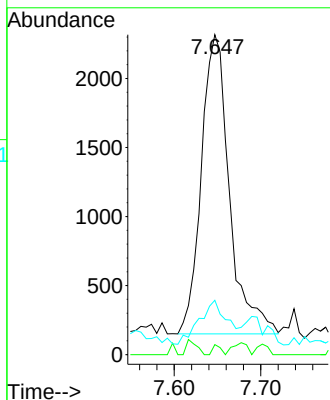
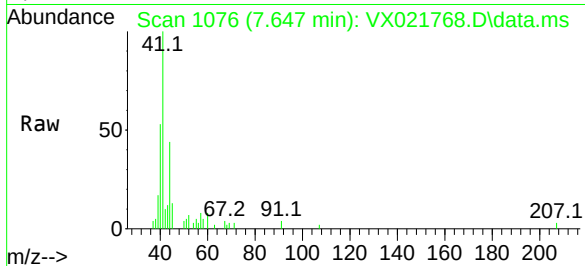




#48  
Methyl methacrylate  
Concen: 2.66 ug/l  
RT: 7.647 min Scan# 1076  
Delta R.T. -0.097 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

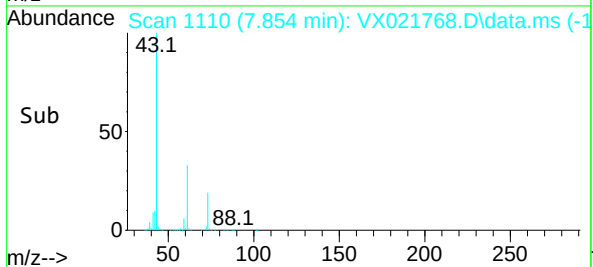
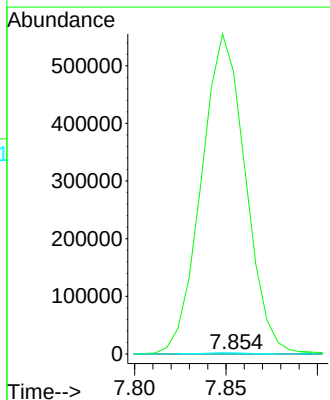
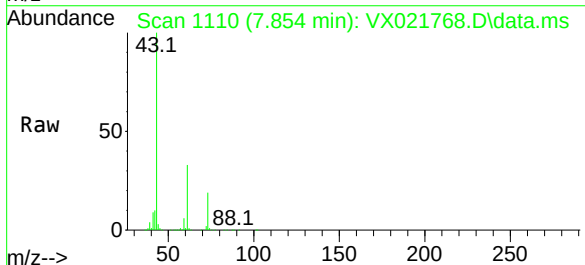
Instrument :  
MSVOA\_X  
ClientSampled :

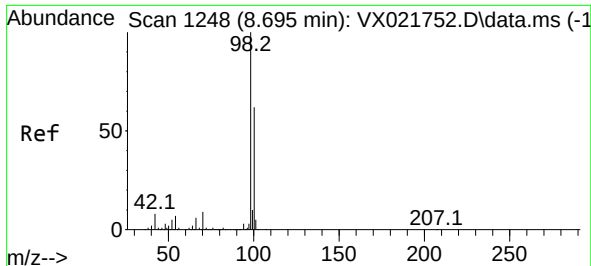
Tgt Ion: 41 Resp: 4894  
Ion Ratio Lower Upper  
41 100  
69 0.9 76.0 114.0#  
39 0.0 44.6 67.0#



#49  
1,4-Dioxane  
Concen: 3.35 ug/l  
RT: 7.854 min Scan# 1110  
Delta R.T. 0.146 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

Tgt Ion: 88 Resp: 145  
Ion Ratio Lower Upper  
88 100  
43 647158.6 23.2 34.8#  
58 2590.3 55.0 82.4#

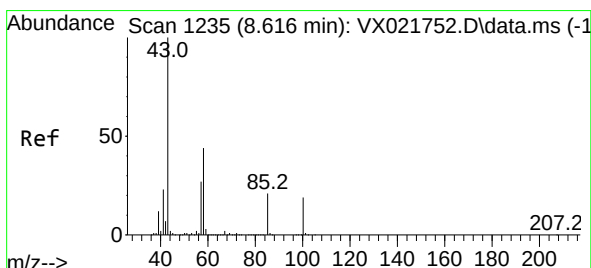
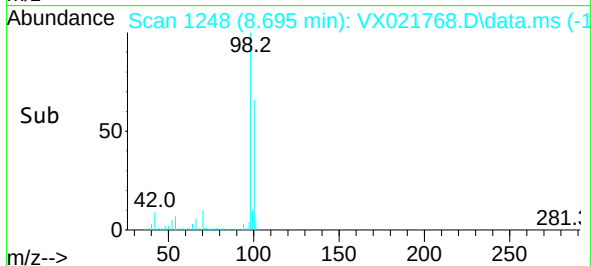
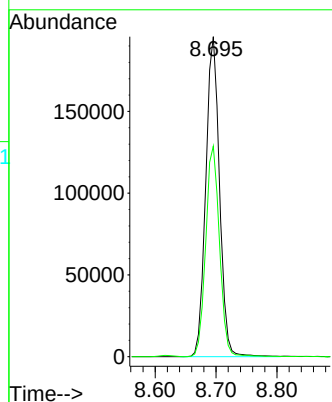
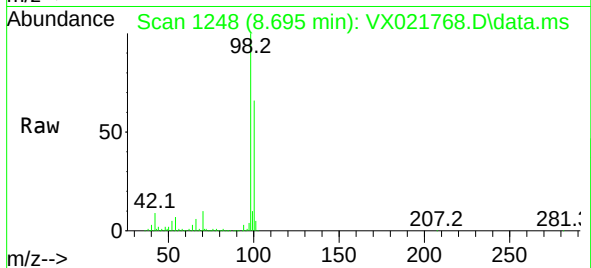




#50  
Toluene-d8  
Concen: 48.07 ug/l  
RT: 8.695 min Scan# 1248  
Delta R.T. 0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

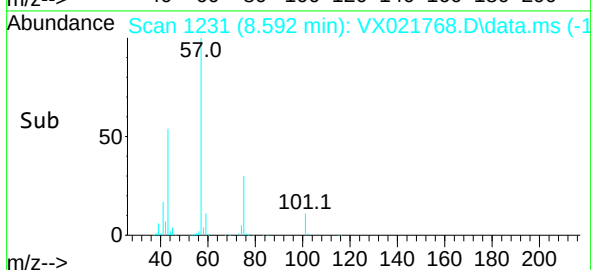
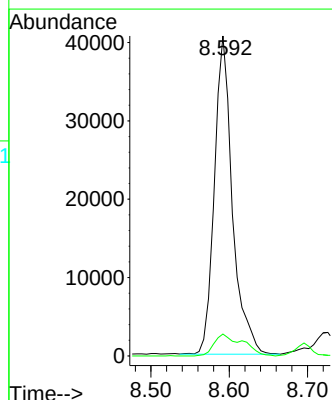
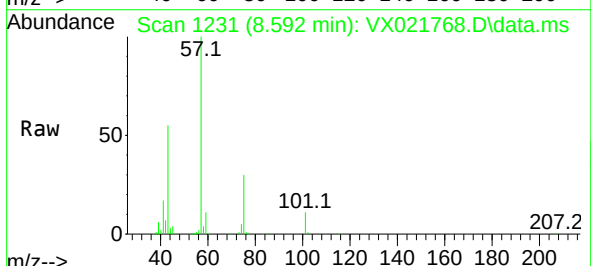
Instrument :  
MSVOA\_X  
ClientSampled :

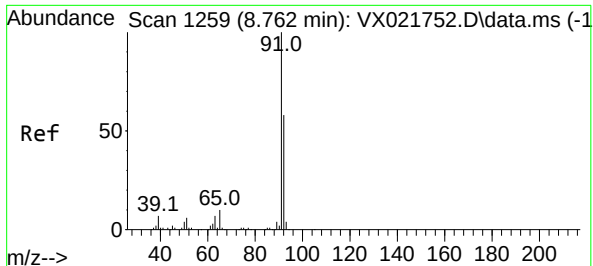
Tgt Ion: 98 Resp: 307160  
Ion Ratio Lower Upper  
98 100  
100 66.1 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 30.07 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. -0.024 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

Tgt Ion: 43 Resp: 65020  
Ion Ratio Lower Upper  
43 100  
58 10.9 35.4 53.0#

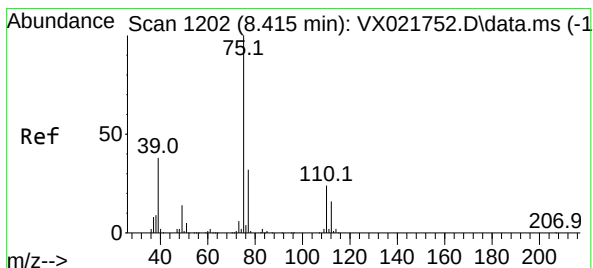
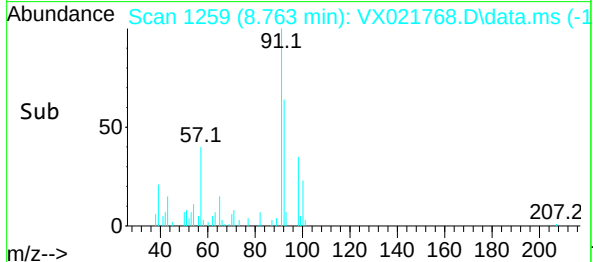
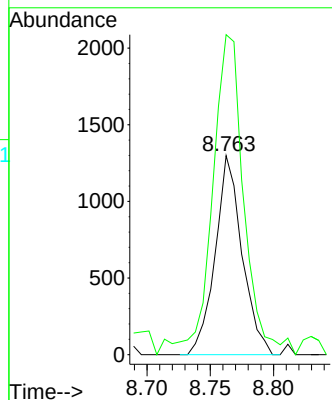
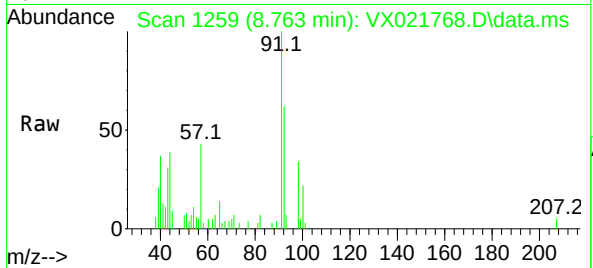




#52  
Toluene  
Concen: 0.43 ug/l  
RT: 8.763 min Scan# 1259  
Delta R.T. 0.001 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

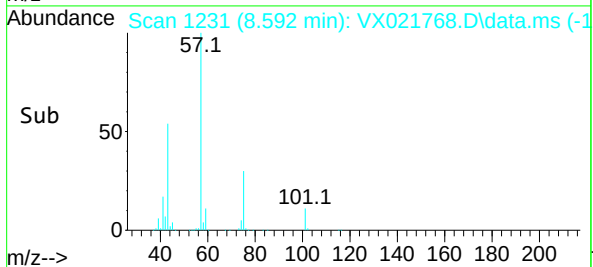
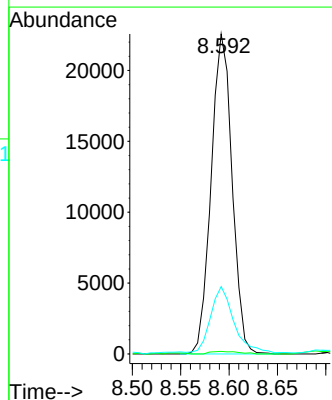
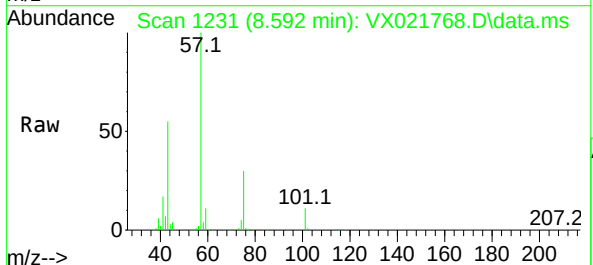
Instrument :  
MSVOA\_X  
ClientSampled :

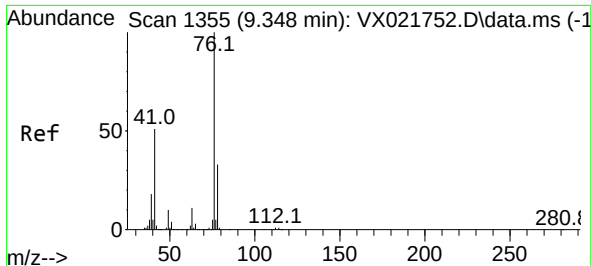
Tgt Ion: 92 Resp: 1920  
Ion Ratio Lower Upper  
92 100  
91 189.1 137.1 205.7



#54  
cis-1,3-Dichloropropene  
Concen: 11.16 ug/l  
RT: 8.592 min Scan# 1231  
Delta R.T. 0.177 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

Tgt Ion: 75 Resp: 33993  
Ion Ratio Lower Upper  
75 100  
77 0.8 25.7 38.5#  
39 20.6 35.1 52.7#

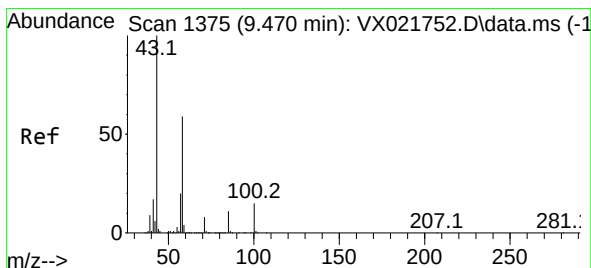
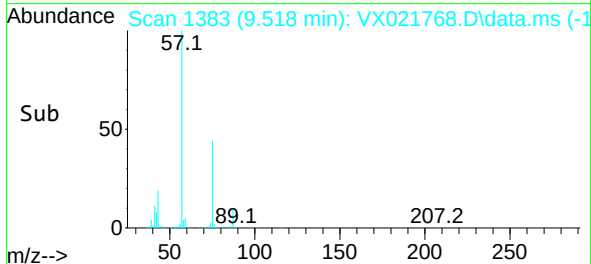
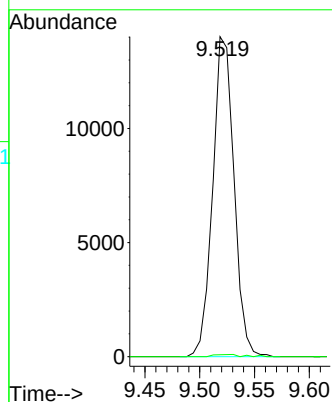
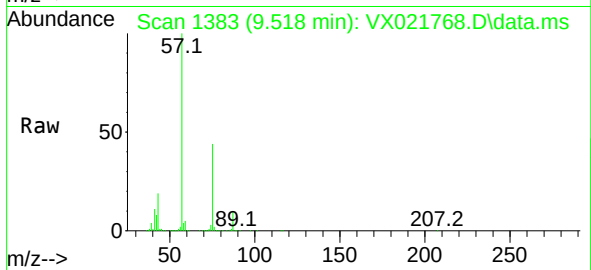




#57  
1,3-Dichloropropane  
Concen: 6.48 ug/l  
RT: 9.518 min Scan# 1383  
Delta R.T. 0.170 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

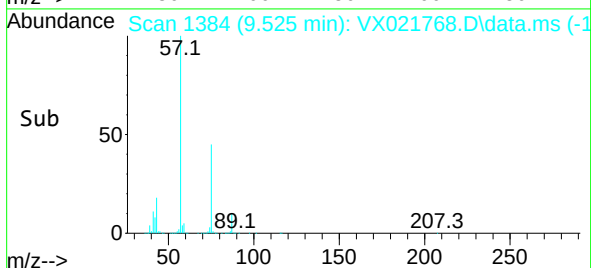
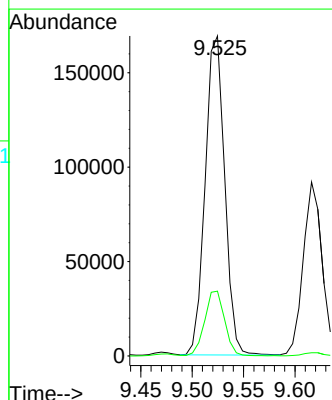
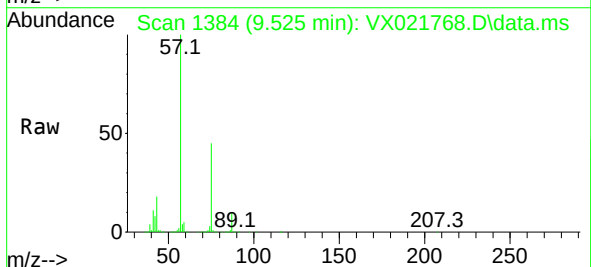
Instrument :  
MSVOA\_X  
ClientSampled :

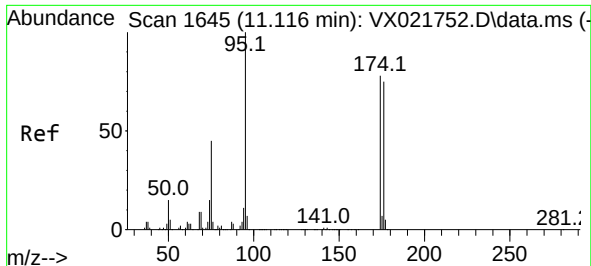
Tgt Ion: 76 Resp: 18971  
Ion Ratio Lower Upper  
76 100  
78 0.9 26.2 39.2#



#59  
2-Hexanone  
Concen: 138.36 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. 0.055 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

Tgt Ion: 43 Resp: 224242  
Ion Ratio Lower Upper  
43 100  
58 20.9 30.9 92.8#

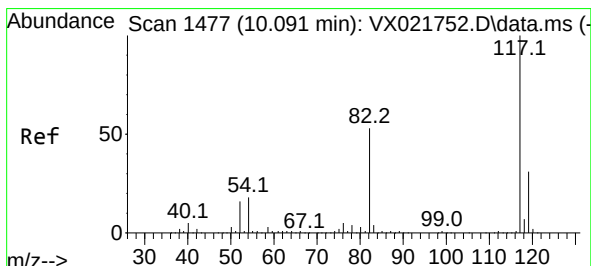
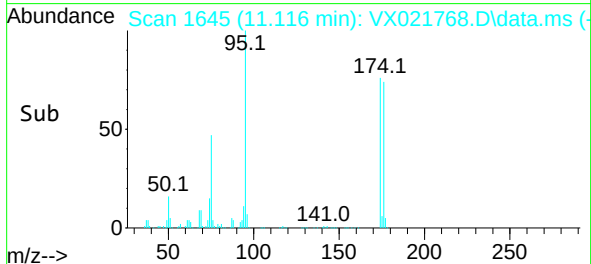
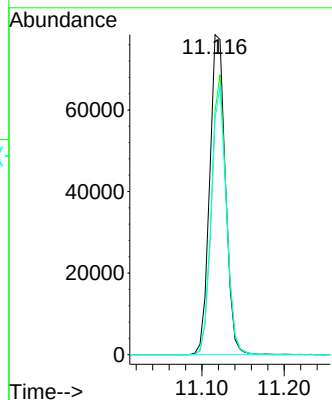
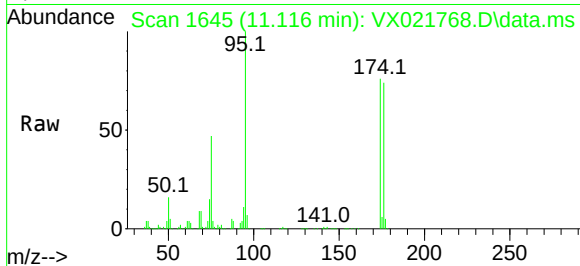




#62  
4-Bromofluorobenzene  
Concen: 43.73 ug/l  
RT: 11.116 min Scan# 1645  
Delta R.T. -0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

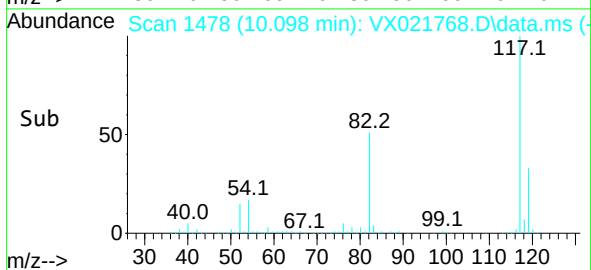
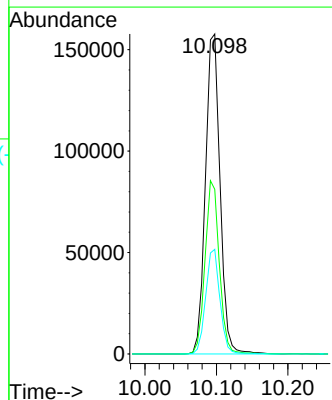
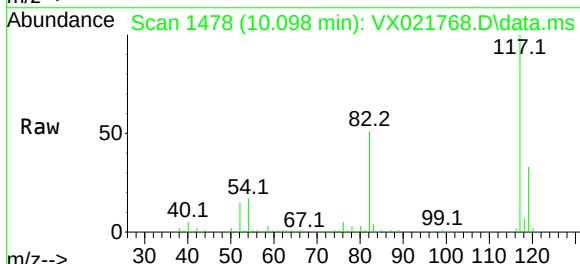
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 95 Resp: 104366  
Ion Ratio Lower Upper  
95 100  
174 82.8 0.0 154.6  
176 80.0 0.0 155.8

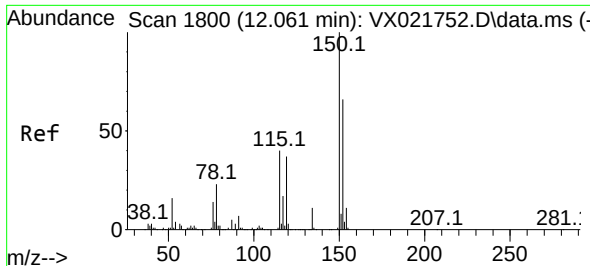


#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.098 min Scan# 1478  
Delta R.T. 0.007 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

Tgt Ion: 117 Resp: 224242  
Ion Ratio Lower Upper  
117 100  
82 51.4 47.4 71.2  
119 32.7 26.6 39.8



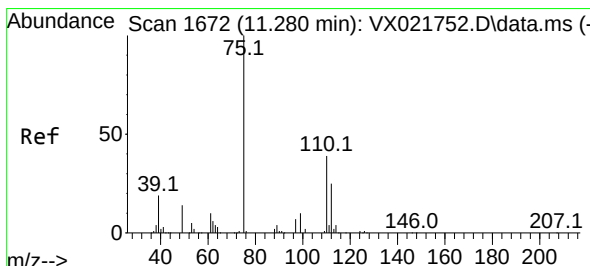
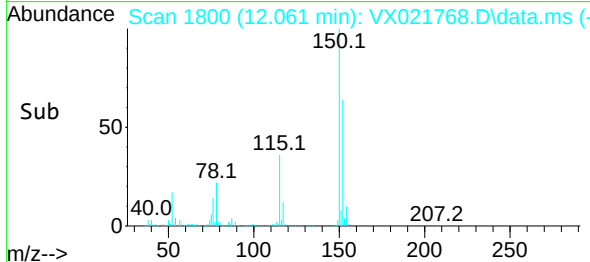
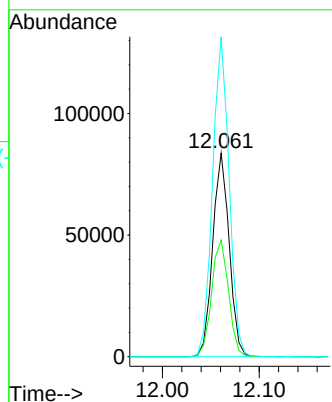
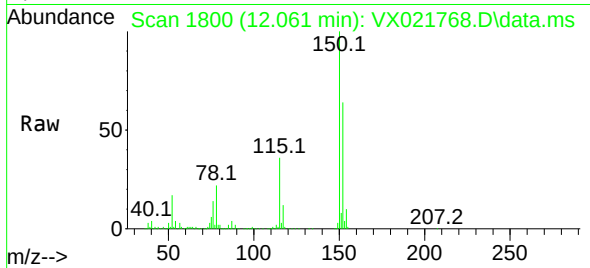




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.061 min Scan# 1800  
 Delta R.T. -0.000 min  
 Lab File: VX021768.D  
 Acq: 20 Apr 2021 21:02

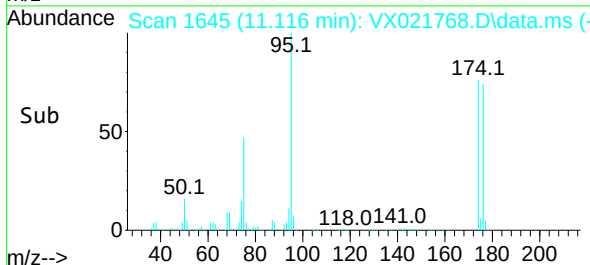
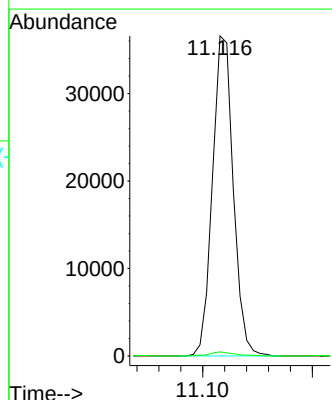
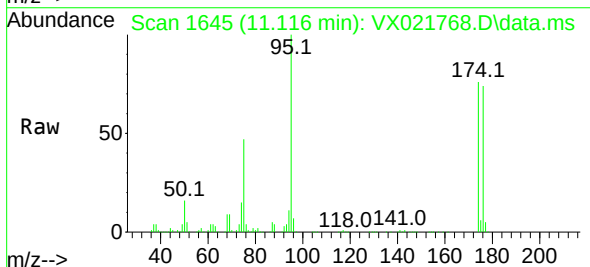
Instrument :  
 MSVOA\_X  
 ClientSampled :

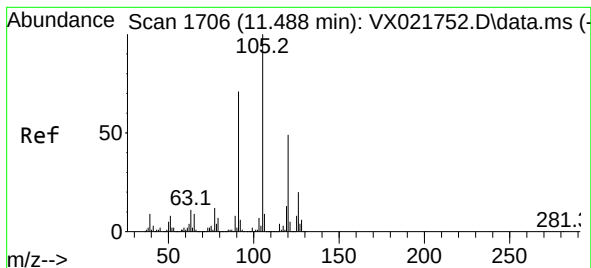
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.9  | 41.1  | 123.3 |
| 150     | 157.8 | 0.0   | 349.0 |



#76  
 1,2,3-Trichloropropane  
 Concen: 24.58 ug/l  
 RT: 11.116 min Scan# 1645  
 Delta R.T. -0.164 min  
 Lab File: VX021768.D  
 Acq: 20 Apr 2021 21:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.6   | 19.1  | 57.5# |

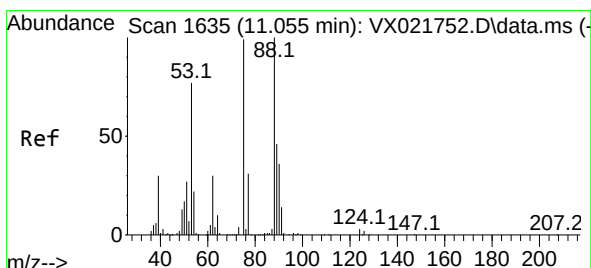
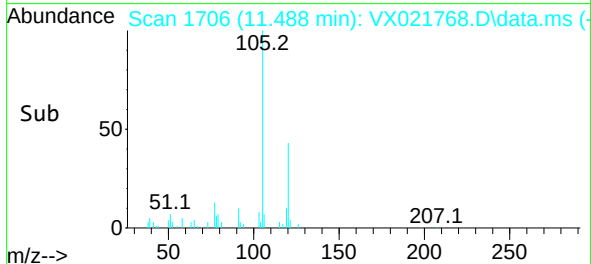
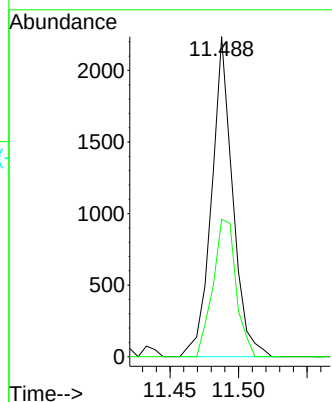
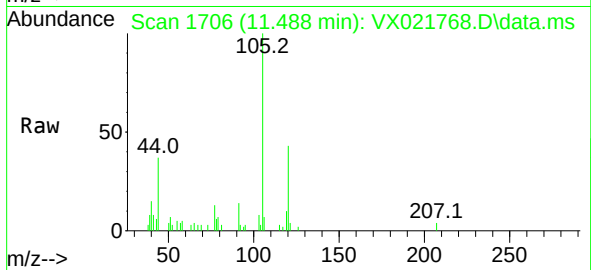




#80  
1,3,5-Trimethylbenzene  
Concen: 0.41 ug/l  
RT: 11.488 min Scan# 1706  
Delta R.T. -0.000 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion:105 Resp: 2399  
Ion Ratio Lower Upper  
105 100  
120 46.8 23.8 71.5



#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.52 ug/l  
RT: 11.116 min Scan# 1645  
Delta R.T. 0.061 min  
Lab File: VX021768.D  
Acq: 20 Apr 2021 21:02

Tgt Ion: 75 Resp: 48306  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

