

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082923\  
 Data File : VX037366.D  
 Acq On : 30 Aug 2023 03:33  
 Operator : JC/MD  
 Sample : 04197-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 44 Sample Multiplier: 1

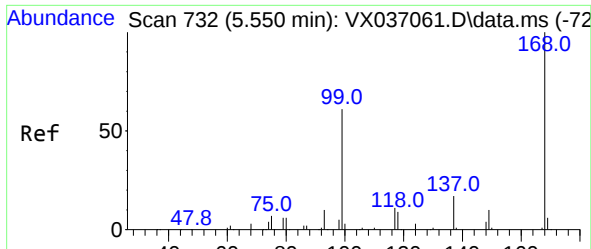
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 30 04:53:26 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 144669   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 239121   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 220525   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 102536   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 91090    | 43.674   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 87.340%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 73766    | 46.580   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 93.160%  |
| 50) Toluene-d8                | 8.647  | 98    | 285462   | 49.693   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 99.380%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 108618   | 48.114   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 96.220%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 6) Chloroethane               | 1.660  | 64    | 853      | 0.906    | ug/l # | 43       |
| 8) Diethyl Ether              | 2.130  | 74    | 1232     | 1.215    | ug/l   | 76       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 236      | 0.482    | ug/l # | 78       |
| 13) Acrolein                  | 2.239  | 56    | 89       | 0.239    | ug/l # | 71       |
| 16) Acetone                   | 2.380  | 43    | 22841    | 27.994   | ug/l   | 95       |
| 18) Methyl Acetate            | 2.709  | 43    | 2719     | 0.885    | ug/l   | 95       |
| 20) Methylene Chloride        | 2.788  | 84    | 17859    | 9.788    | ug/l # | 81       |
| 25) 2-Butanone                | 4.574  | 43    | 7565     | 6.158    | ug/l # | 88       |
| 29) Tetrahydrofuran           | 5.032  | 42    | 404      | 0.516    | ug/l # | 52       |
| 31) Cyclohexane               | 5.550  | 56    | 2791     | 1.190    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 11176    | 4.967    | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.721  | 43    | 553      | 0.241    | ug/l # | 28       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 15409    | 6.305    | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 81022    | 22.205   | ug/l # | 91       |
| 48) Methyl methacrylate       | 7.799  | 41    | 66710    | 37.489   | ug/l # | 47       |
| 49) 1,4-Dioxane               | 7.799  | 88    | 82       | 1.711    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 80004    | 36.108   | ug/l # | 37       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 34697    | 12.561   | ug/l # | 51       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 4122     | 1.408    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378  | 43    | 77251    | 45.727   | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 53076    | 24.306   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 53076    | 67.887   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

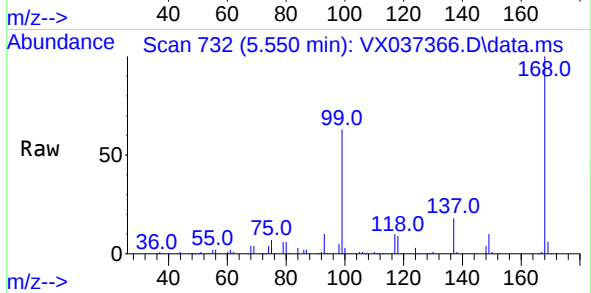
(#) = qualifier out of range (m) = manual integration (+) = signals summed



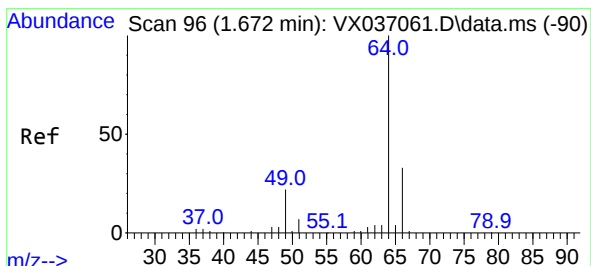
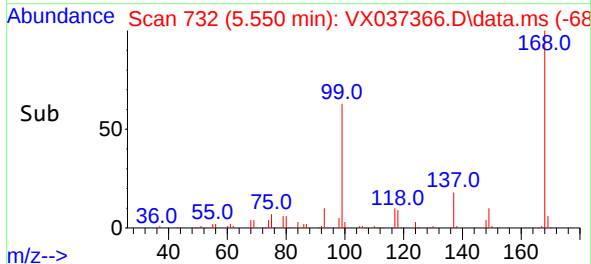
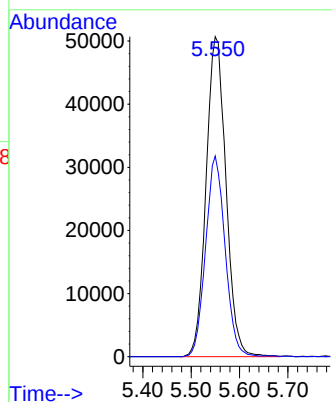


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Instrument :  
MSVOA\_X  
ClientSampleId :

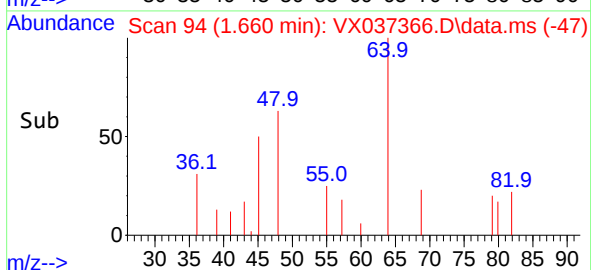
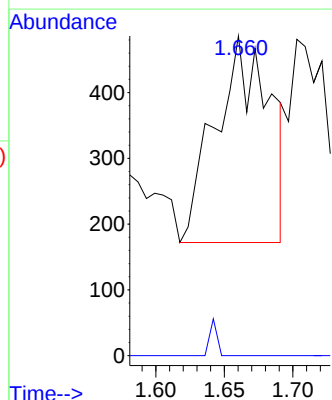
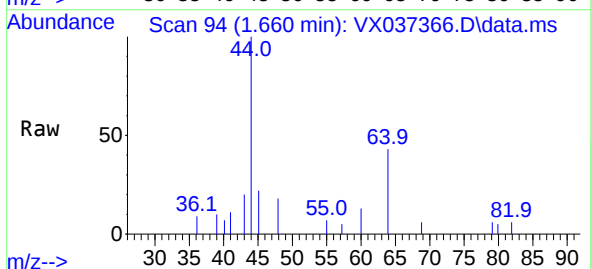


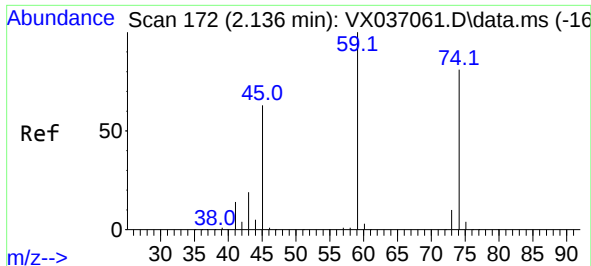
Tgt Ion:168 Resp: 144669  
Ion Ratio Lower Upper  
168 100  
99 62.7 56.6 85.0



#6  
Chloroethane  
Concen: 0.906 ug/l  
RT: 1.660 min Scan# 94  
Delta R.T. -0.012 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Tgt Ion: 64 Resp: 853  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#

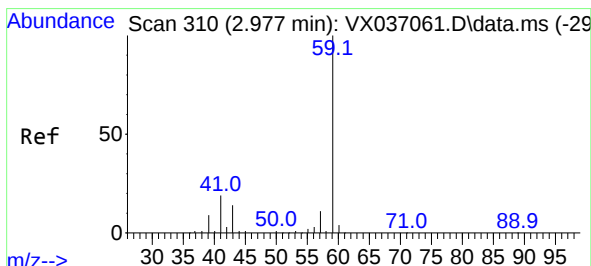
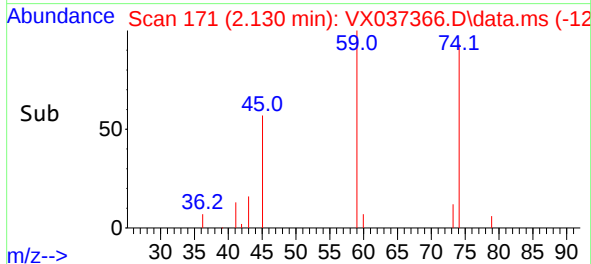
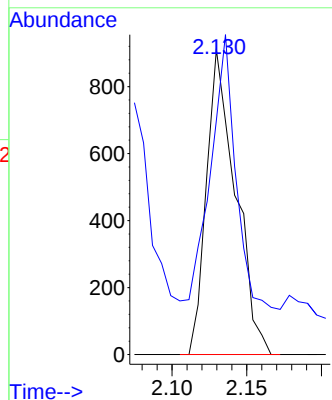
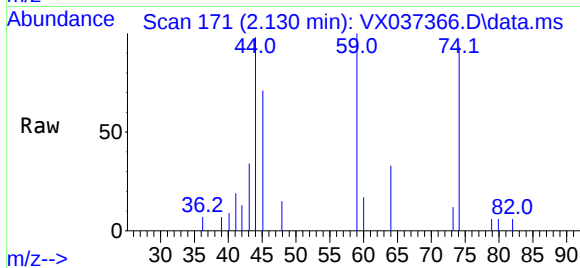




#8  
Diethyl Ether  
Concen: 1.215 ug/l  
RT: 2.130 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

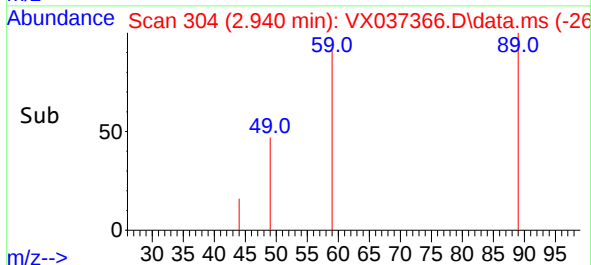
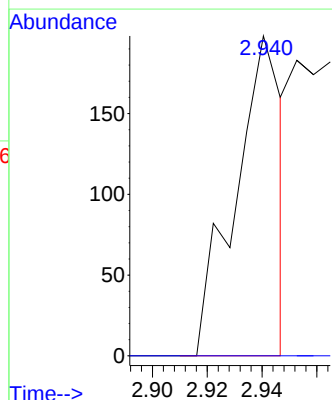
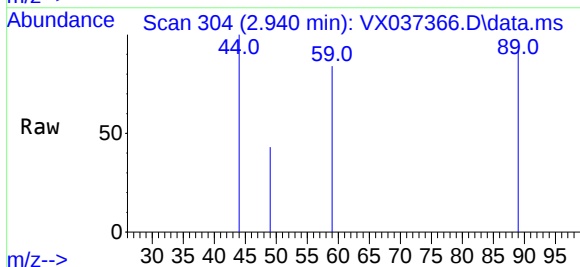
Instrument :  
MSVOA\_X  
ClientSampleId :

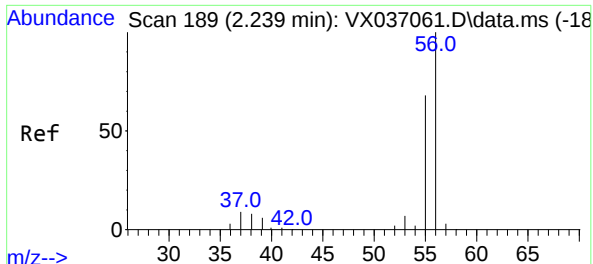
Tgt Ion: 74 Resp: 1232  
Ion Ratio Lower Upper  
74 100  
45 81.7 53.3 159.8



#11  
Tert butyl alcohol  
Concen: 0.482 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.037 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

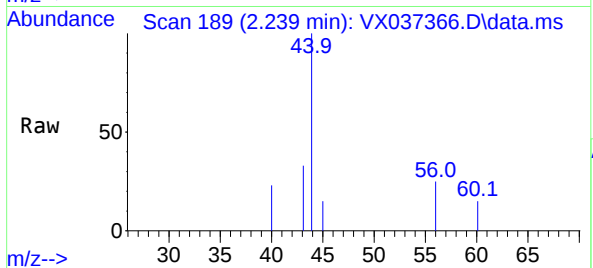
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Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



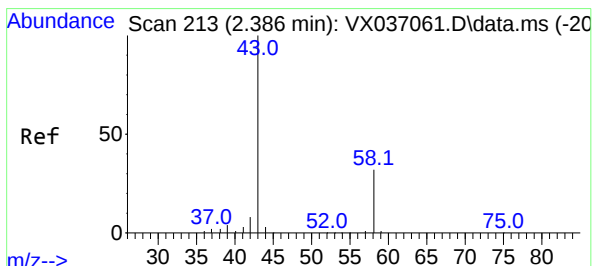
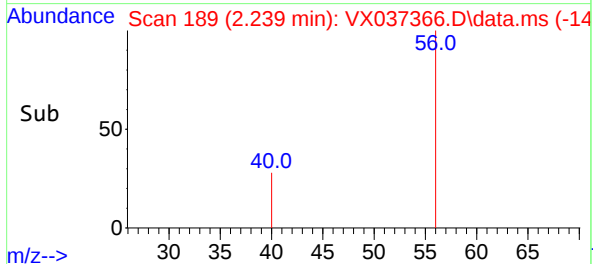
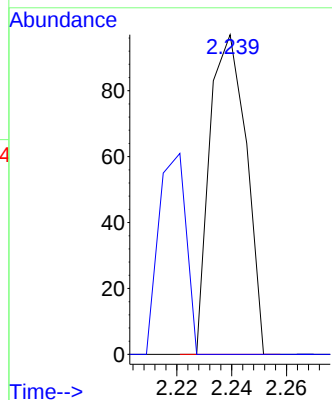


#13  
Acrolein  
Concen: 0.239 ug/l  
RT: 2.239 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Instrument :  
MSVOA\_X  
ClientSampleId :

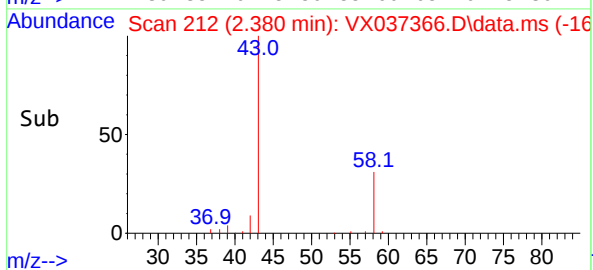
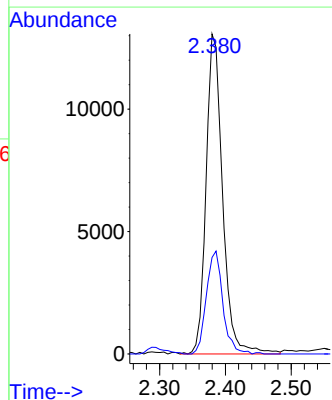
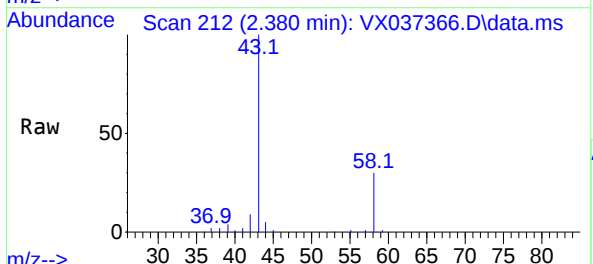


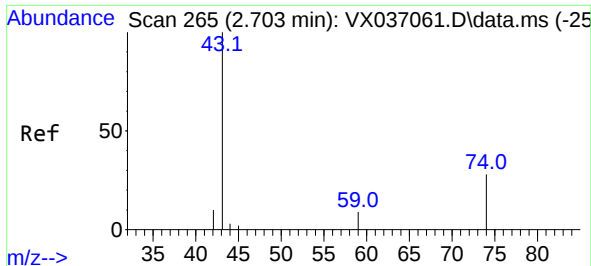
Tgt Ion: 56 Resp: 89  
Ion Ratio Lower Upper  
56 100  
55 47.2 57.1 85.7#



#16  
Acetone  
Concen: 27.994 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.006 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Tgt Ion: 43 Resp: 22841  
Ion Ratio Lower Upper  
43 100  
58 30.2 21.9 32.9





#18

Methyl Acetate

Concen: 0.885 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX037366.D

Acq: 30 Aug 2023 03:33

Instrument :

MSVOA\_X

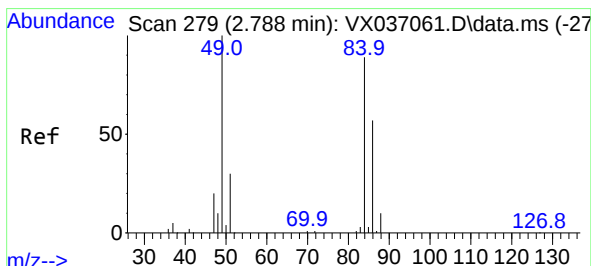
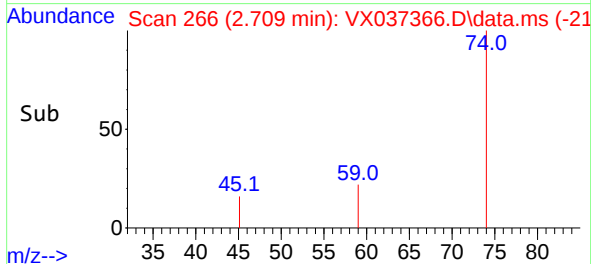
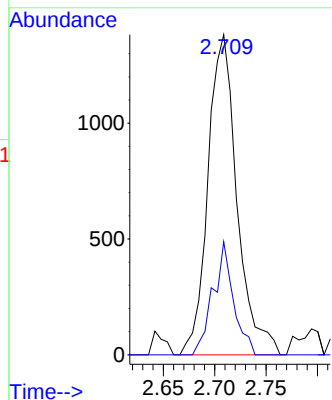
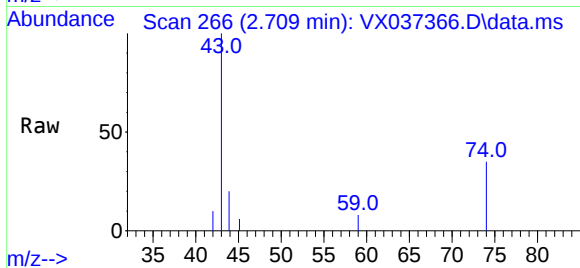
ClientSampleId :

Tgt Ion: 43 Resp: 2719

Ion Ratio Lower Upper

43 100

74 24.9 17.8 26.8



#20

Methylene Chloride

Concen: 9.788 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX037366.D

Acq: 30 Aug 2023 03:33

Tgt Ion: 84 Resp: 17859

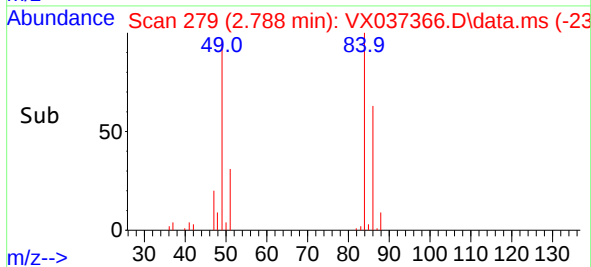
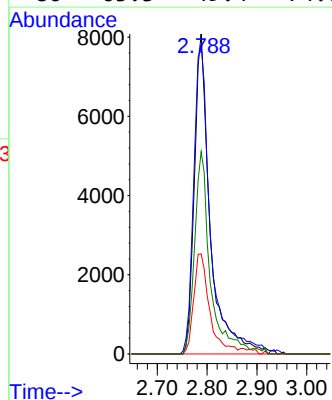
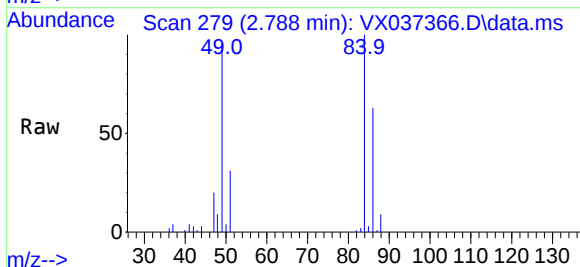
Ion Ratio Lower Upper

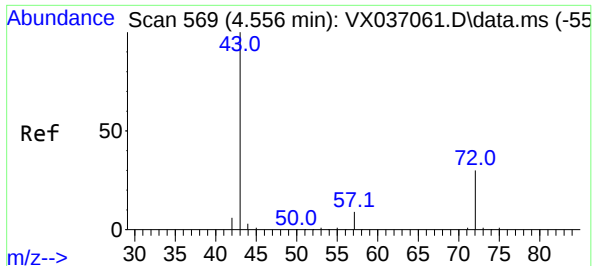
84 100

49 96.5 103.6 155.4#

51 31.3 33.8 50.6#

86 63.3 49.4 74.0





#25

2-Butanone

Concen: 6.158 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX037366.D

Acq: 30 Aug 2023 03:33

Instrument :

MSVOA\_X

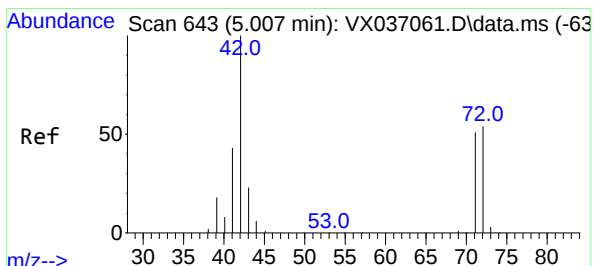
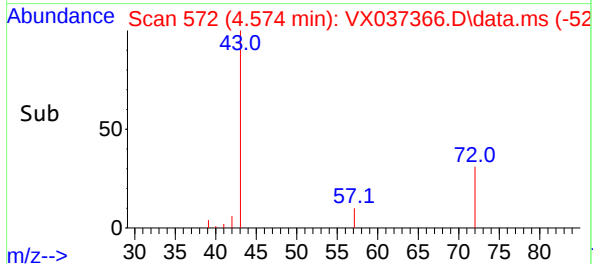
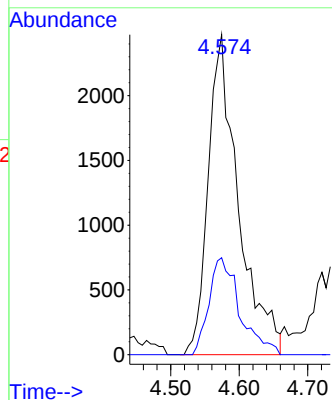
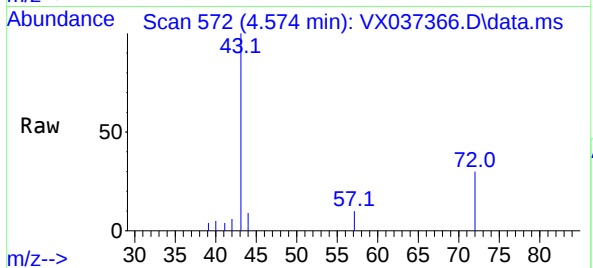
ClientSampleId :

Tgt Ion: 43 Resp: 7565

Ion Ratio Lower Upper

43 100

72 30.3 19.4 29.2#



#29

Tetrahydrofuran

Concen: 0.516 ug/l

RT: 5.032 min Scan# 647

Delta R.T. 0.024 min

Lab File: VX037366.D

Acq: 30 Aug 2023 03:33

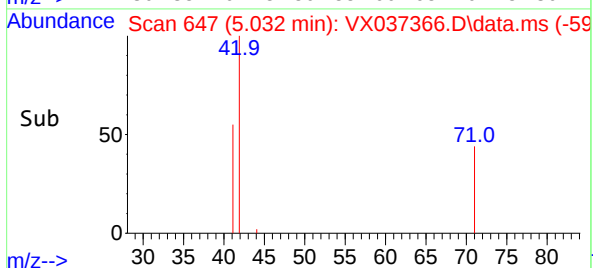
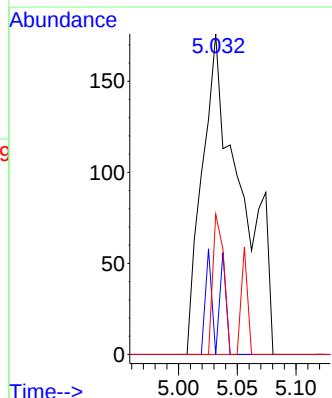
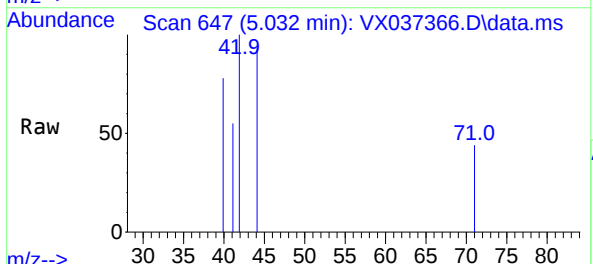
Tgt Ion: 42 Resp: 404

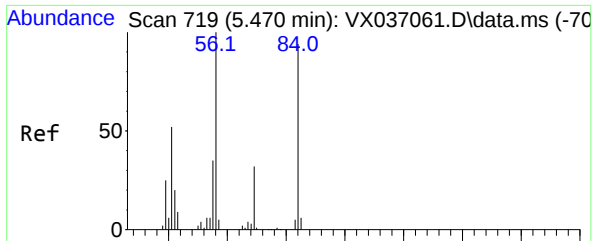
Ion Ratio Lower Upper

42 100

72 10.4 34.2 51.4#

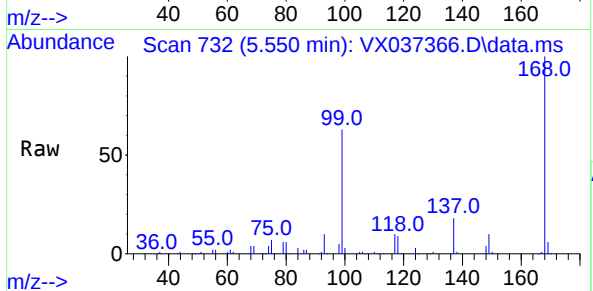
71 12.1 32.2 48.2#



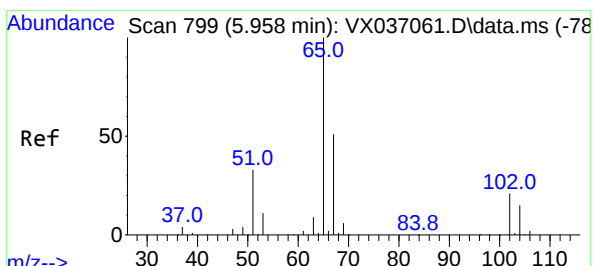
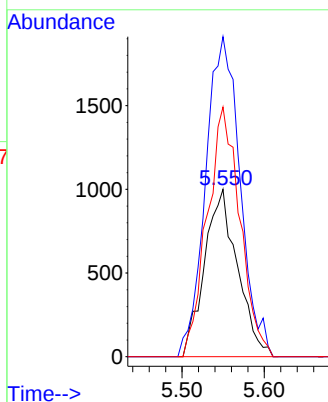
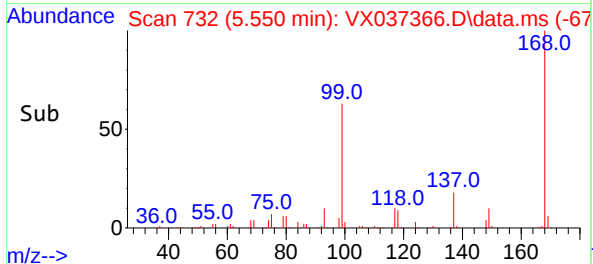


#31  
Cyclohexane  
Concen: 1.190 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Instrument :  
MSVOA\_X  
ClientSampleId :

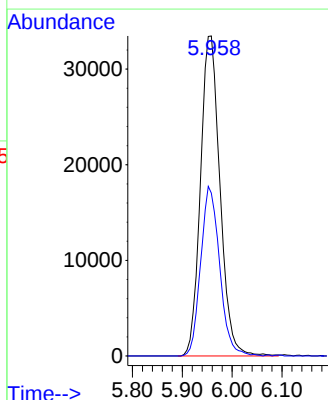
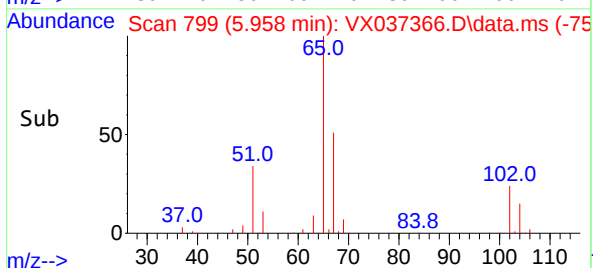
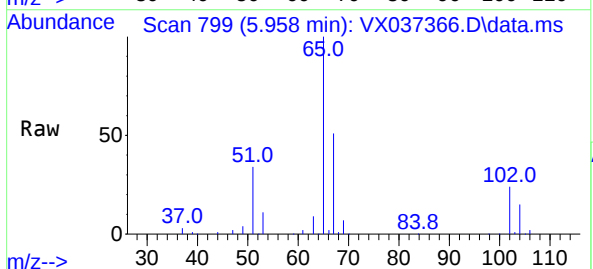


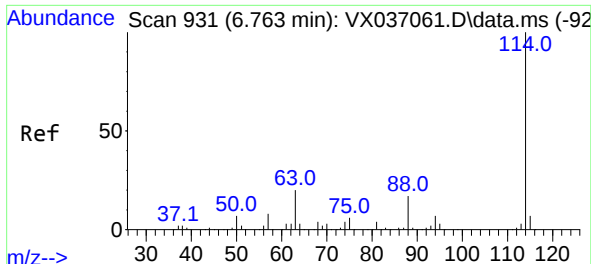
Tgt Ion: 56 Resp: 2791  
Ion Ratio Lower Upper  
56 100  
69 191.2 23.4 35.2#  
84 149.1 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 43.674 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Tgt Ion: 65 Resp: 91090  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 100.2

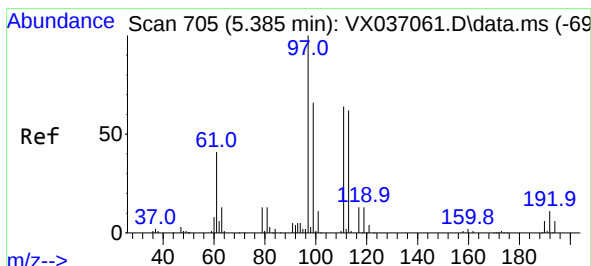
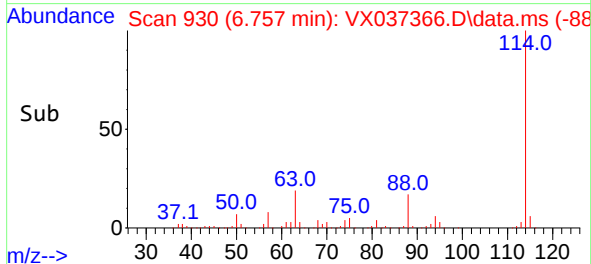
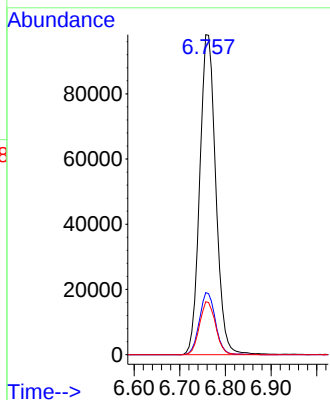
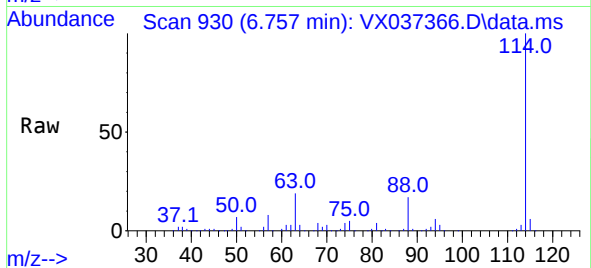




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

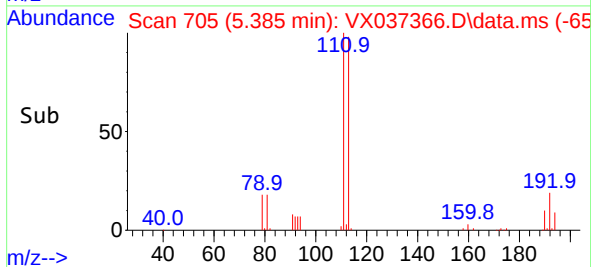
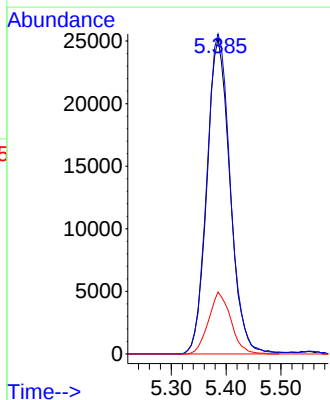
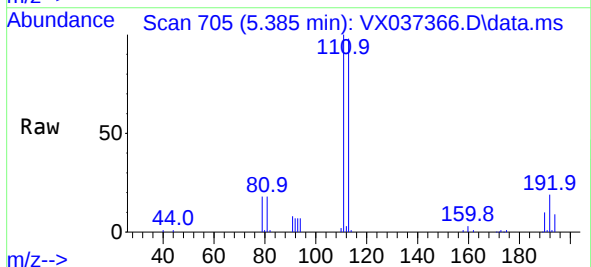
Instrument :  
MSVOA\_X  
ClientSampleId :

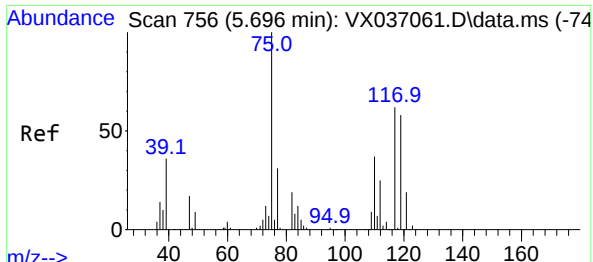
Tgt Ion:114 Resp: 239121  
Ion Ratio Lower Upper  
114 100  
63 19.4 0.0 45.0  
88 16.6 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.580 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

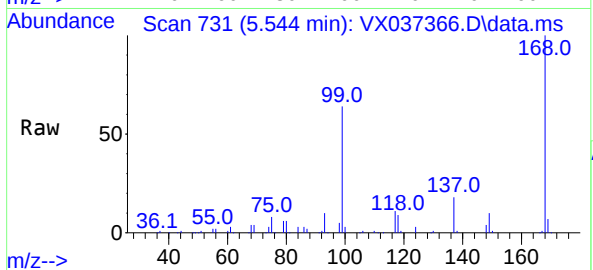
Tgt Ion:113 Resp: 73766  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.9 124.3  
192 18.9 13.3 19.9



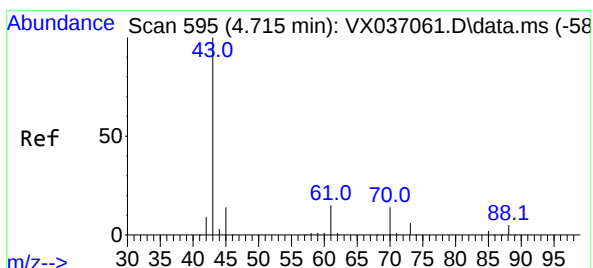
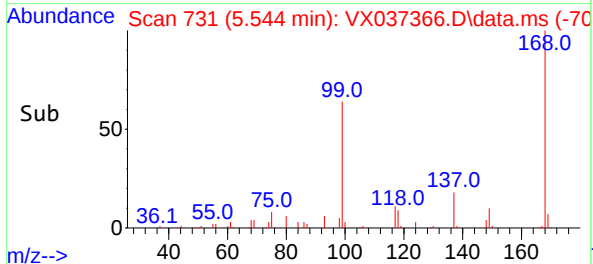
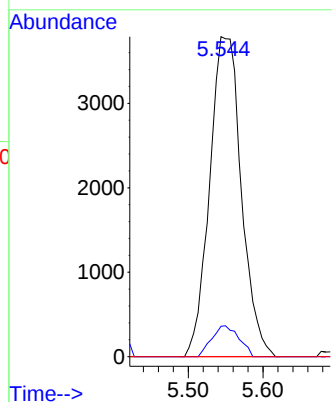


#36  
1,1-Dichloropropene  
Concen: 4.967 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.152 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Instrument :  
MSVOA\_X  
ClientSampleId :

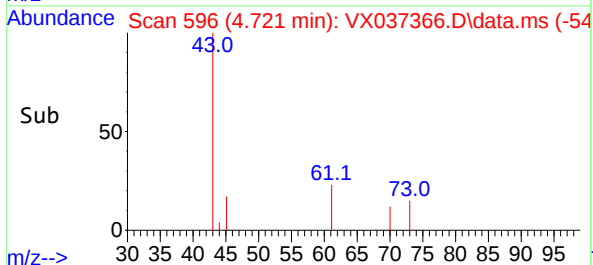
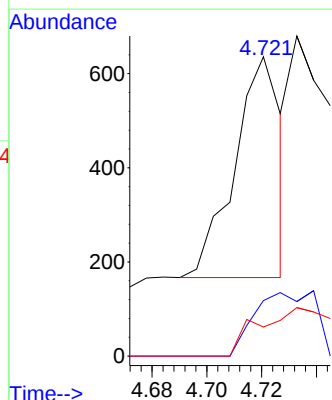
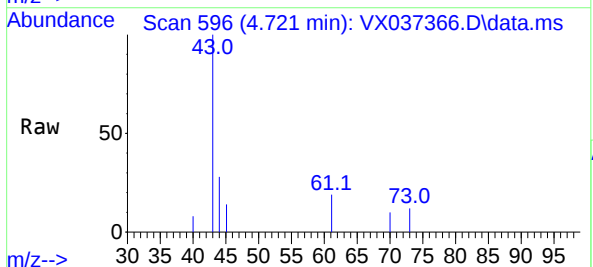


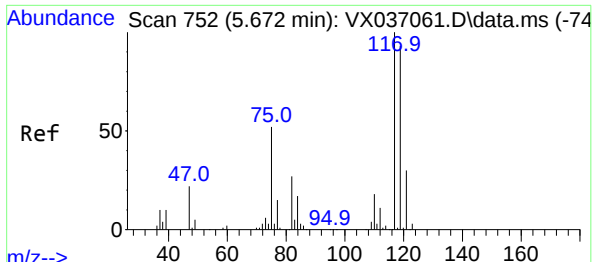
Tgt Ion: 75 Resp: 11176  
Ion Ratio Lower Upper  
75 100  
110 8.3 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 0.241 ug/l  
RT: 4.721 min Scan# 596  
Delta R.T. 0.006 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

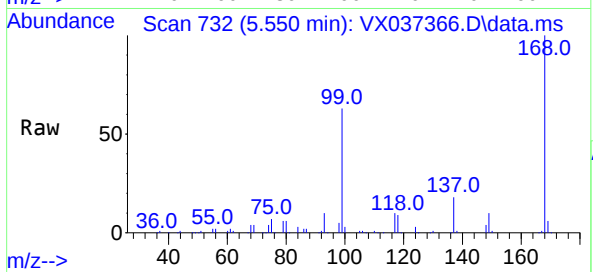
Tgt Ion: 43 Resp: 553  
Ion Ratio Lower Upper  
43 100  
61 45.9 10.6 16.0#  
70 32.5 8.3 12.5#



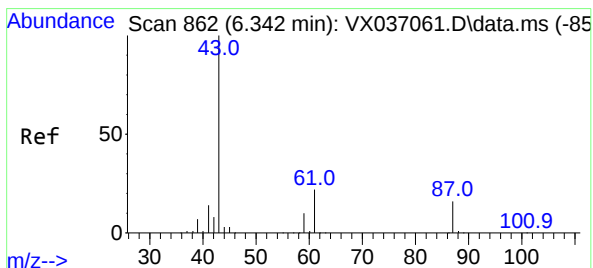
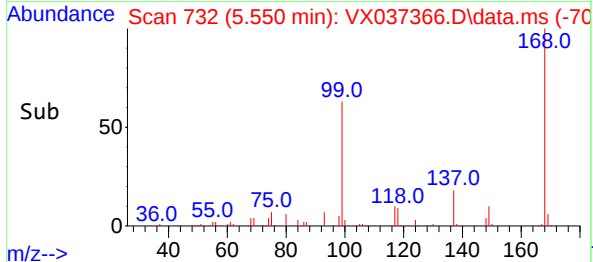
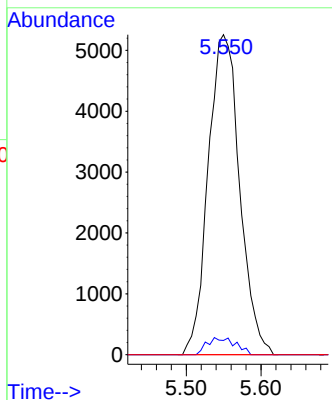


#38  
Carbon Tetrachloride  
Concen: 6.305 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Instrument :  
MSVOA\_X  
ClientSampleId :

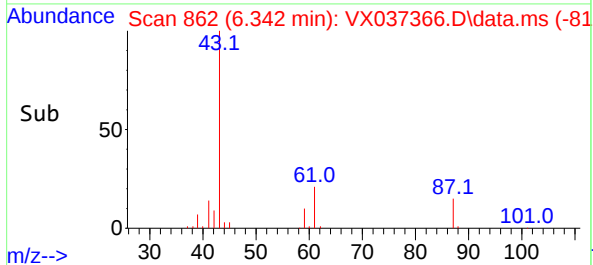
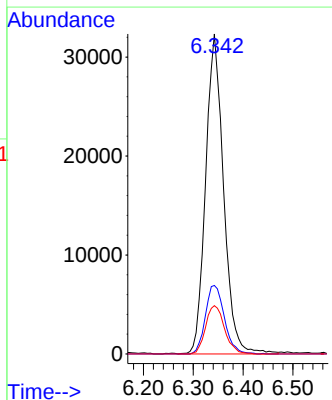
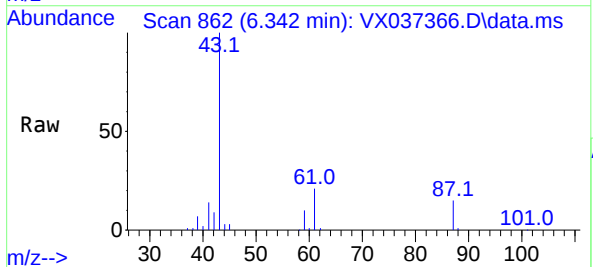


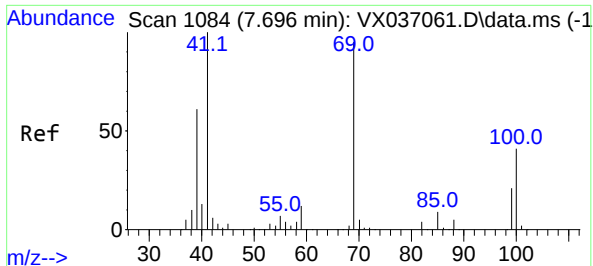
Tgt Ion:117 Resp: 15409  
Ion Ratio Lower Upper  
117 100  
119 4.4 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 22.205 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Tgt Ion: 43 Resp: 81022  
Ion Ratio Lower Upper  
43 100  
61 22.6 15.2 22.8  
87 15.9 9.8 14.6#





#48

Methyl methacrylate

Concen: 37.489 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX037366.D

Acq: 30 Aug 2023 03:33

Instrument :

MSVOA\_X

ClientSampleId :

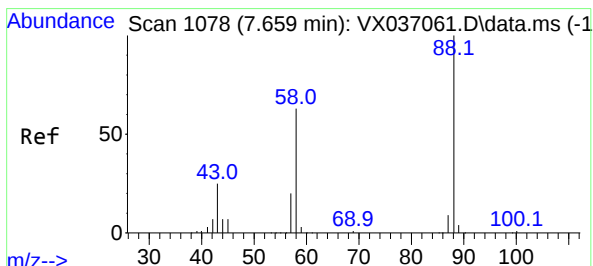
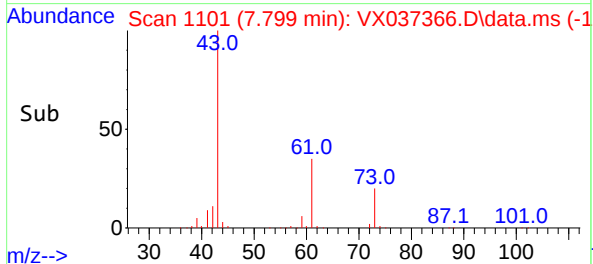
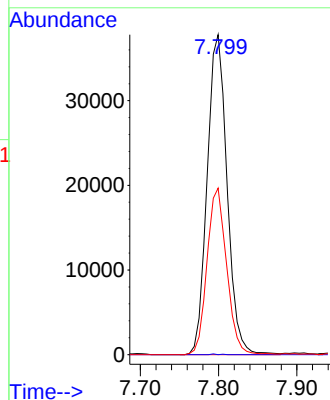
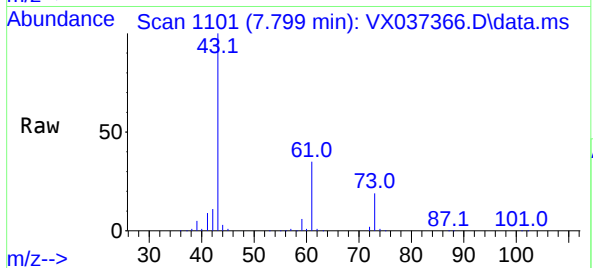
Tgt Ion: 41 Resp: 66710

Ion Ratio Lower Upper

41 100

69 0.1 59.2 88.8#

39 51.2 47.7 71.5



#49

1,4-Dioxane

Concen: 1.711 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.140 min

Lab File: VX037366.D

Acq: 30 Aug 2023 03:33

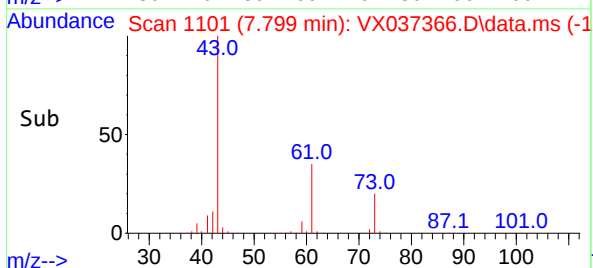
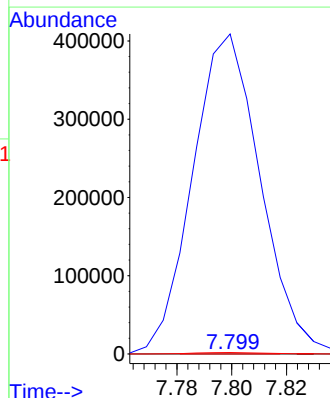
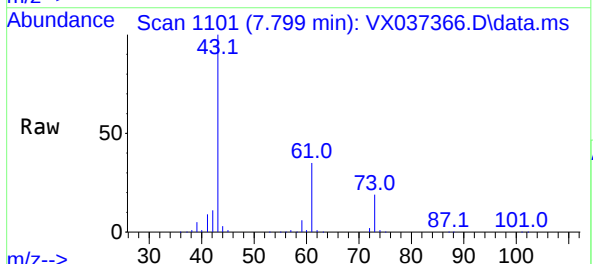
Tgt Ion: 88 Resp: 82

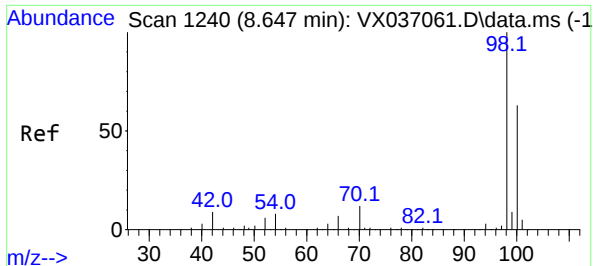
Ion Ratio Lower Upper

88 100

43 866328.0 0.0 0.0#

58 3939.0 60.1 90.1#

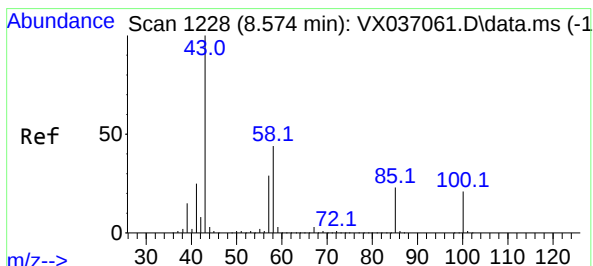
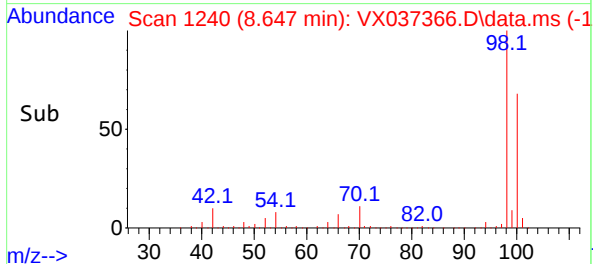
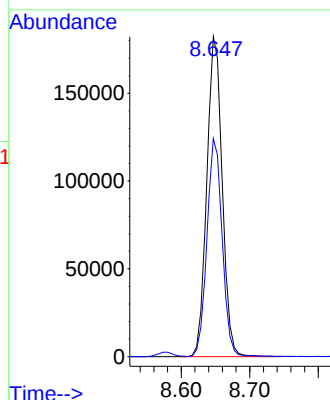
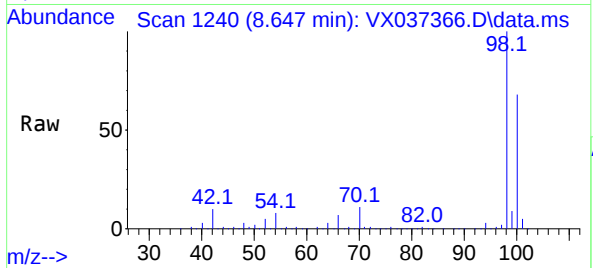




#50  
Toluene-d8  
Concen: 49.693 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

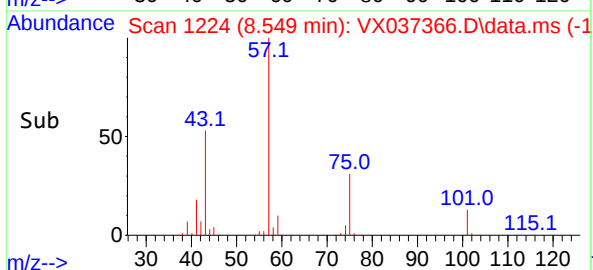
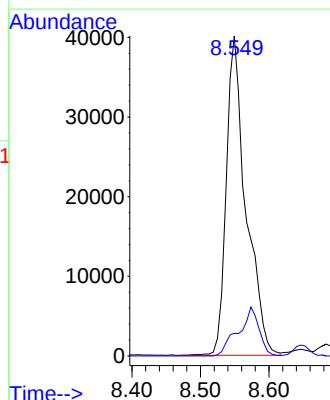
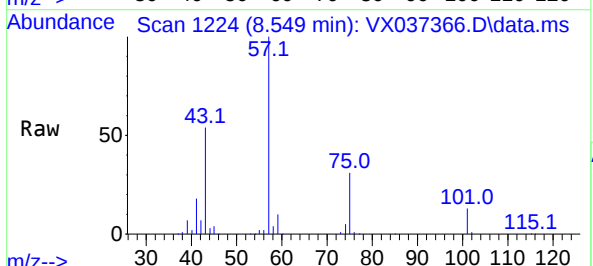
Instrument :  
MSVOA\_X  
ClientSampleId :

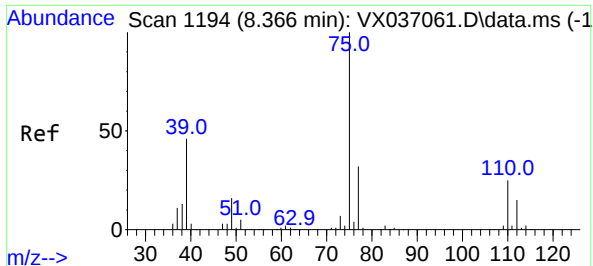
Tgt Ion: 98 Resp: 285462  
Ion Ratio Lower Upper  
98 100  
100 67.3 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 36.108 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Tgt Ion: 43 Resp: 80004  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#

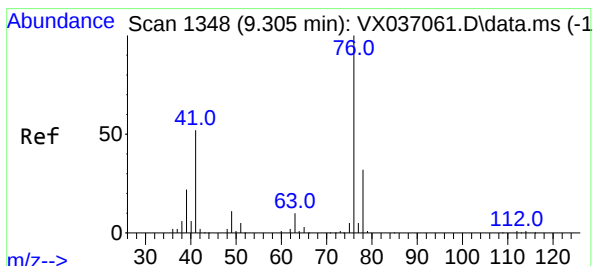
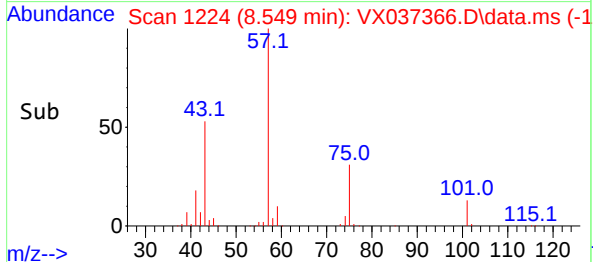
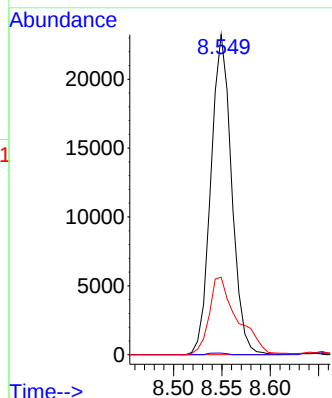
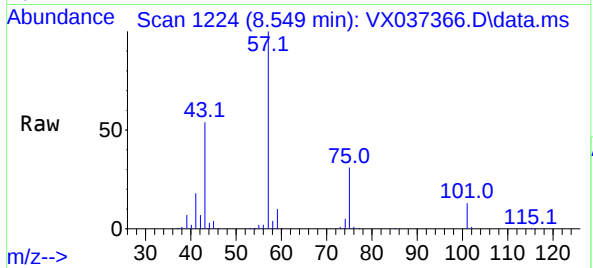




#54  
cis-1,3-Dichloropropene  
Concen: 12.561 ug/l  
RT: 8.549 min Scan# 1194  
Delta R.T. 0.183 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

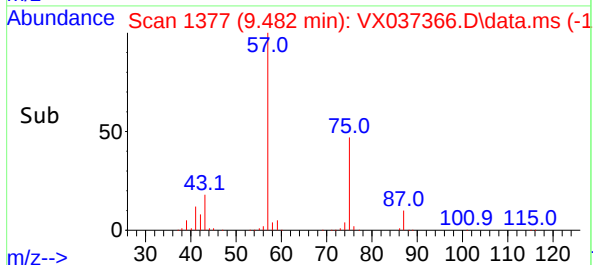
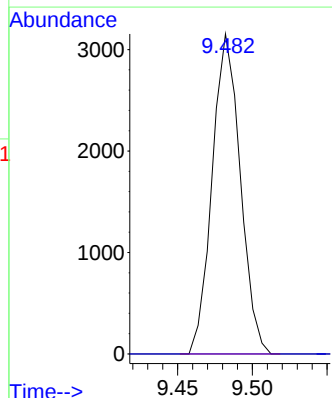
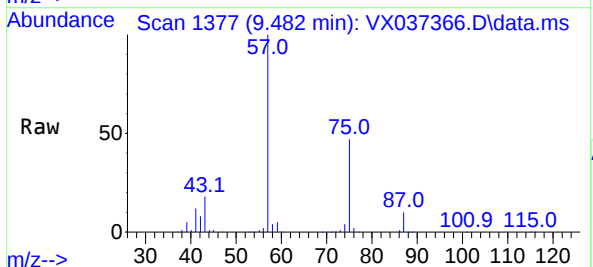
Instrument :  
MSVOA\_X  
ClientSampleId :

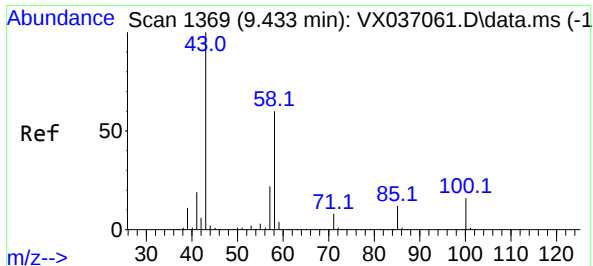
Tgt Ion: 75 Resp: 34697  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.3 37.9#  
39 24.2 46.7 70.1#



#57  
1,3-Dichloropropane  
Concen: 1.408 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Tgt Ion: 76 Resp: 4122  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 45.727 ug/l

RT: 9.378 min Scan# 11

Delta R.T. -0.055 min

Lab File: VX037366.D

Acq: 30 Aug 2023 03:33

Instrument :

MSVOA\_X

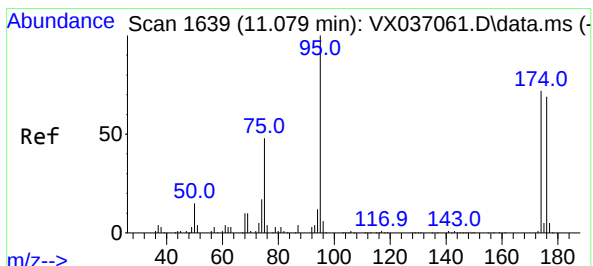
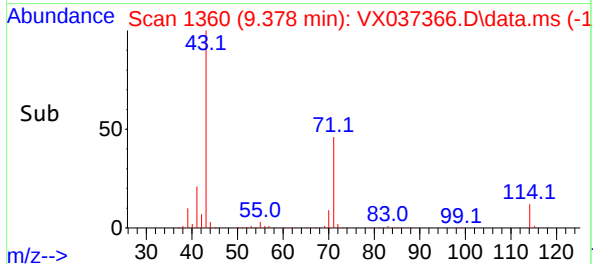
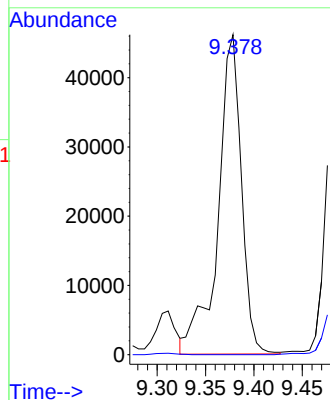
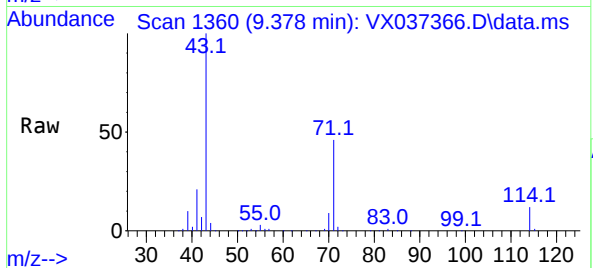
ClientSampleId :

Tgt Ion: 43 Resp: 77251

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#



#62

4-Bromofluorobenzene

Concen: 48.114 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX037366.D

Acq: 30 Aug 2023 03:33

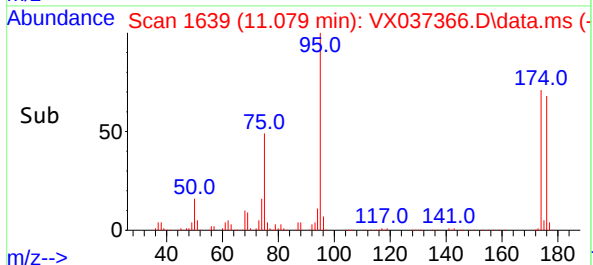
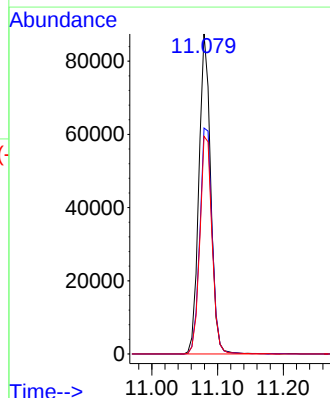
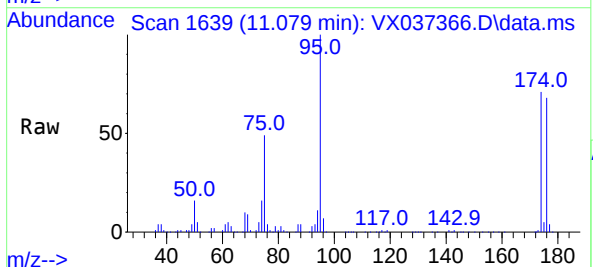
Tgt Ion: 95 Resp: 108618

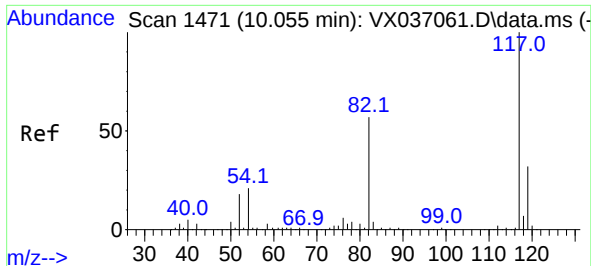
Ion Ratio Lower Upper

95 100

174 74.1 0.0 135.6

176 70.6 0.0 131.0

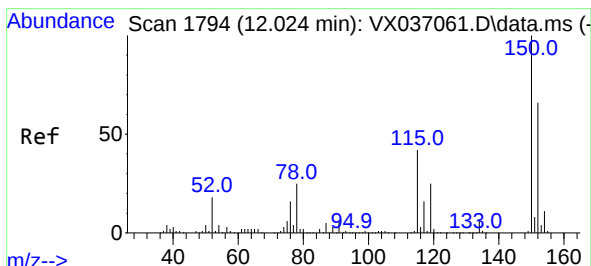
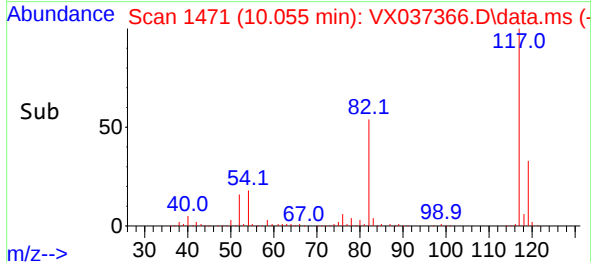
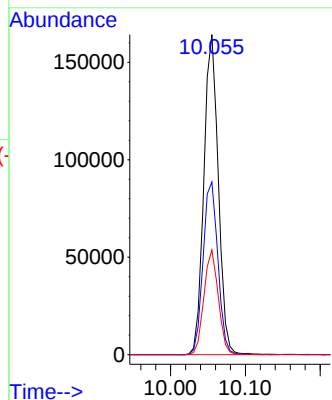
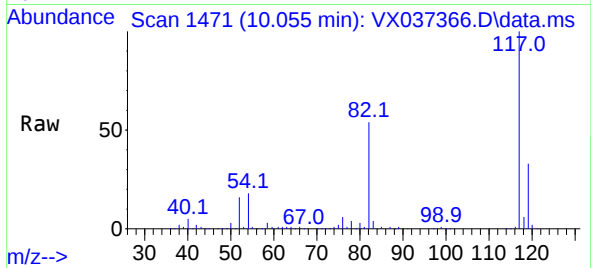




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

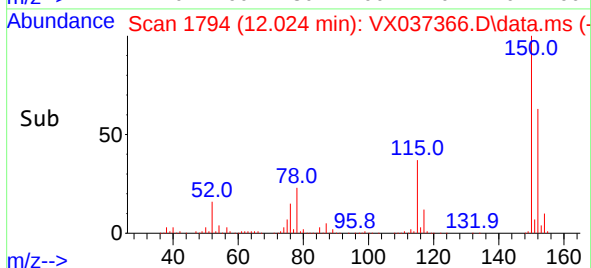
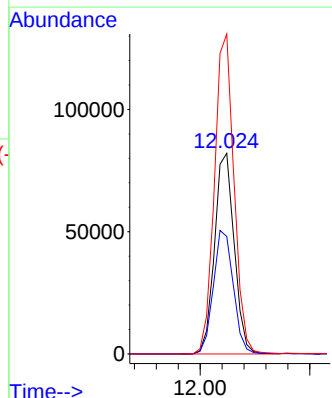
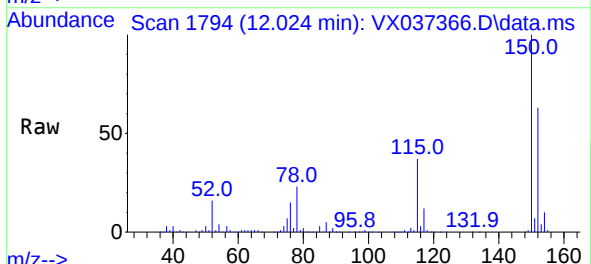
Instrument :  
MSVOA\_X  
ClientSampleId :

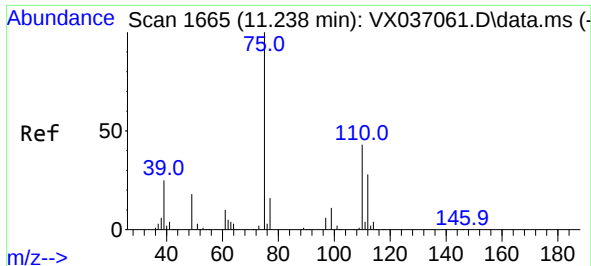
Tgt Ion:117 Resp: 220525  
Ion Ratio Lower Upper  
117 100  
82 54.0 46.2 69.4  
119 32.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Tgt Ion:152 Resp: 102536  
Ion Ratio Lower Upper  
152 100  
115 62.5 43.3 129.9  
150 158.8 0.0 345.0

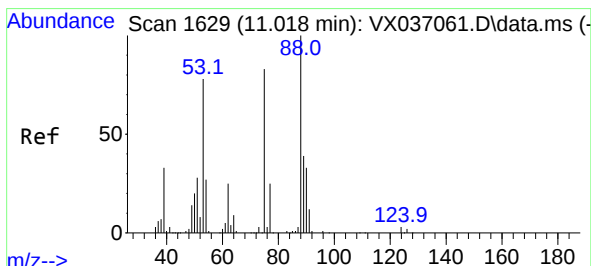
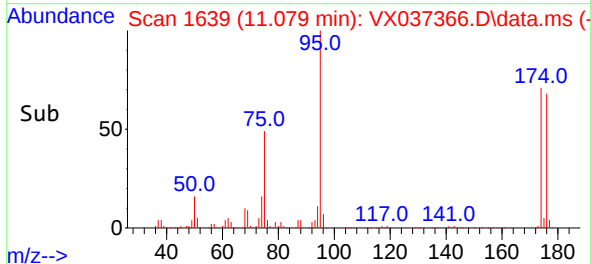
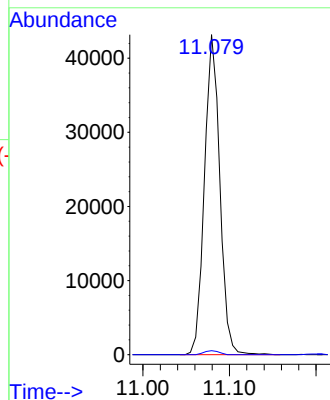
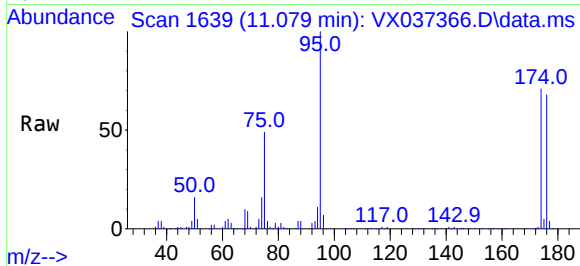




#76  
1,2,3-Trichloropropane  
Concen: 24.306 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 53076  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.887 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX037366.D  
Acq: 30 Aug 2023 03:33

Tgt Ion: 75 Resp: 53076  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

