

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111723\  
 Data File : VX038891.D  
 Acq On : 17 Nov 2023 19:21  
 Operator : JC/MD  
 Sample : 05466-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

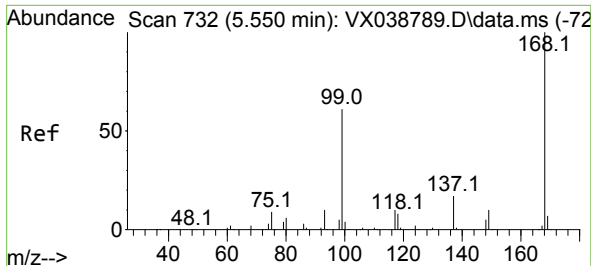
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 17 22:55:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 115122     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 237859     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 248017     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 129164     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 89945      | 48.488   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 96.980%  |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 77042      | 44.847   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 89.700%  |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 302455     | 46.017   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 92.040%  |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 134024     | 50.939   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 101.880% |        |          |
| Target Compounds              |                |      |            |          |        |          |
|                               |                |      |            |          | Qvalue |          |
| 5) Bromomethane               | 1.611          | 94   | 160        | 0.229    | ug/l # | 3        |
| 6) Chloroethane               | 1.672          | 64   | 310        | 0.322    | ug/l # | 44       |
| 11) Tert butyl alcohol        | 2.941          | 59   | 1413       | 2.739    | ug/l # | 93       |
| 13) Acrolein                  | 2.239          | 56   | 89         | 0.326    | ug/l # | 45       |
| 16) Acetone                   | 2.380          | 43   | 29310      | 29.681   | ug/l   | 92       |
| 18) Methyl Acetate            | 2.703          | 43   | 1995       | 0.425    | ug/l # | 90       |
| 20) Methylene Chloride        | 2.788          | 84   | 61777      | 34.704   | ug/l   | 97       |
| 25) 2-Butanone                | 4.580          | 43   | 2680       | 1.674    | ug/l   | 91       |
| 29) Tetrahydrofuran           | 4.965          | 42   | 247        | 0.243    | ug/l # | 40       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 10316      | 4.190    | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.733          | 43   | 3489       | 1.088    | ug/l # | 86       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 12858      | 5.651    | ug/l # | 14       |
| 43) Isopropyl Acetate         | 6.336          | 43   | 130690     | 25.493   | ug/l   | 98       |
| 44) Trichloroethene           | 7.129          | 130  | 358        | 0.202    | ug/l   | 72       |
| 48) Methyl methacrylate       | 7.799          | 41   | 99096      | 39.841   | ug/l # | 47       |
| 49) 1,4-Dioxane               | 7.787          | 88   | 151        | 3.138    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 93562      | 28.559   | ug/l # | 52       |
| 53) t-1,3-Dichloropropene     | 8.952          | 75   | 633        | 0.205    | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 44078      | 13.844   | ug/l # | 50       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 5102       | 1.636    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378          | 43   | 112610     | 42.885   | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 67028      | 20.799   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 67028      | 46.135   | ug/l # | 5        |

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

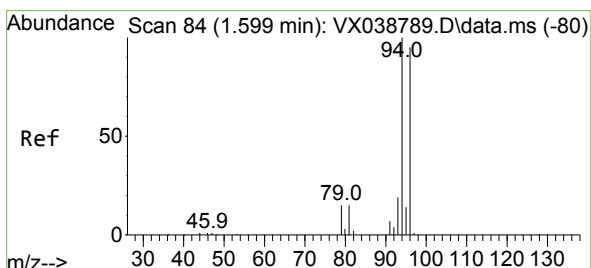
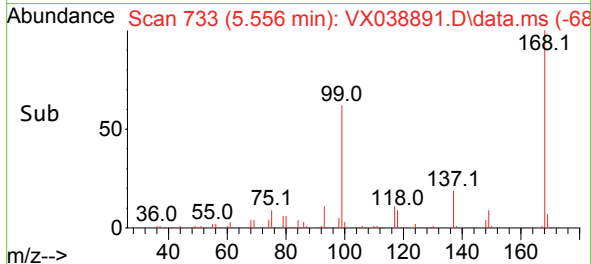
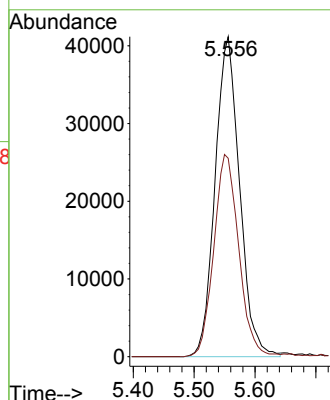
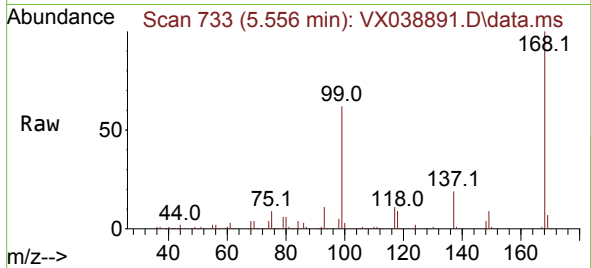




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

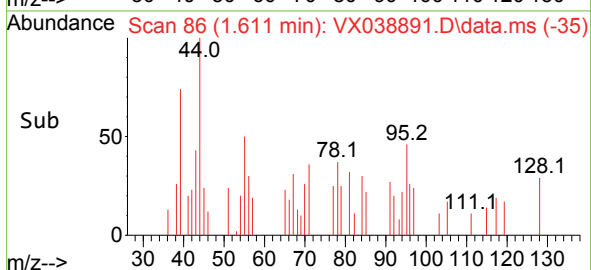
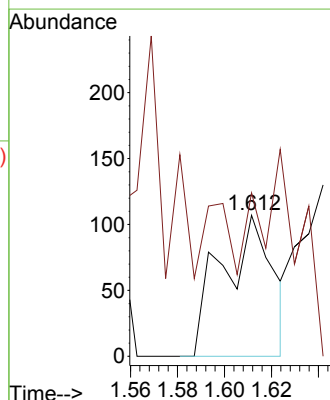
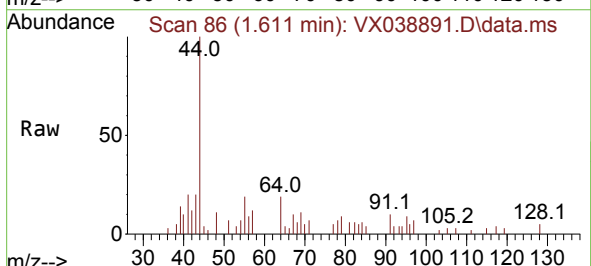
Instrument :  
MSVOA\_X  
ClientSampleId :

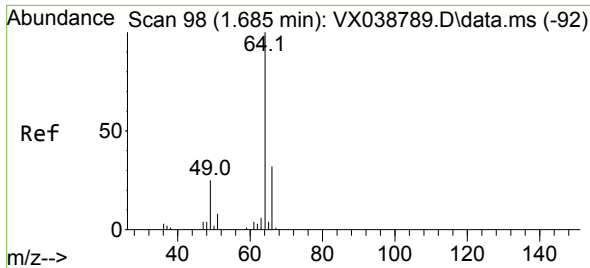
Tgt Ion:168 Resp: 115122  
Ion Ratio Lower Upper  
168 100  
99 62.0 56.6 85.0



#5  
Bromomethane  
Concen: 0.229 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

Tgt Ion: 94 Resp: 160  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.6 111.8#

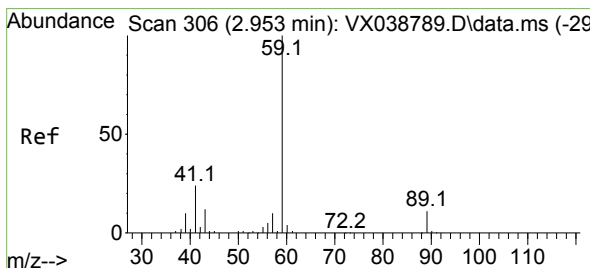
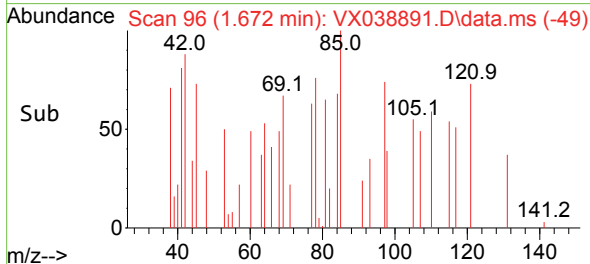
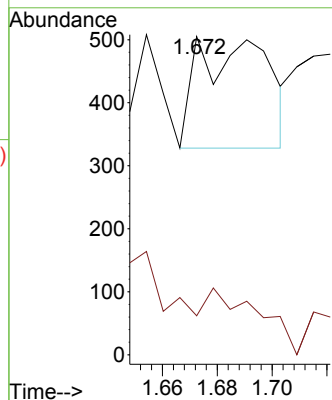
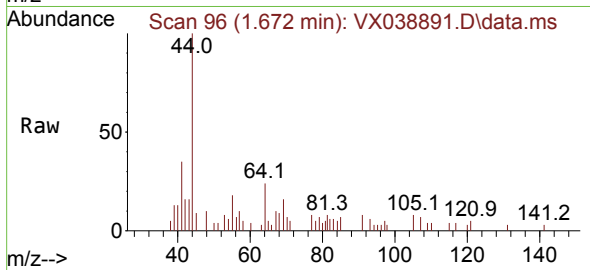




#6  
Chloroethane  
Concen: 0.322 ug/l  
RT: 1.672 min Scan# 90  
Delta R.T. -0.013 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

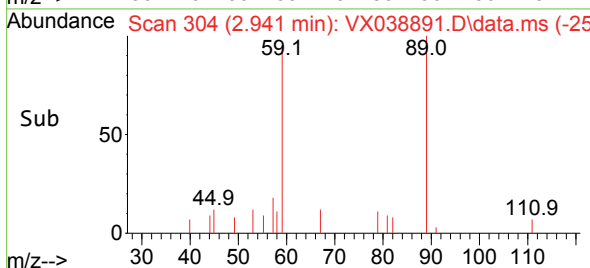
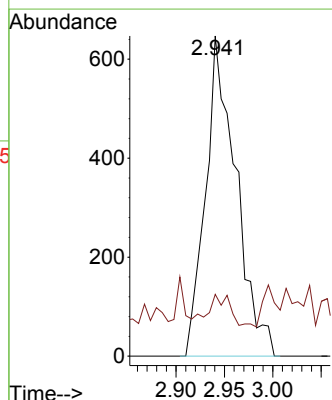
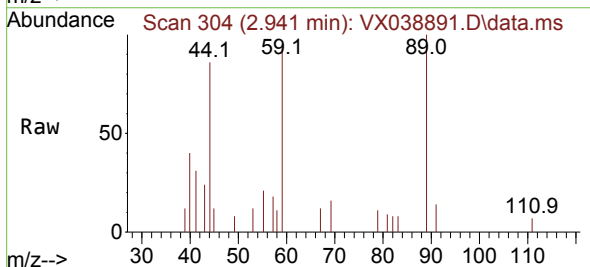
Instrument :  
MSVOA\_X  
ClientSampleId :

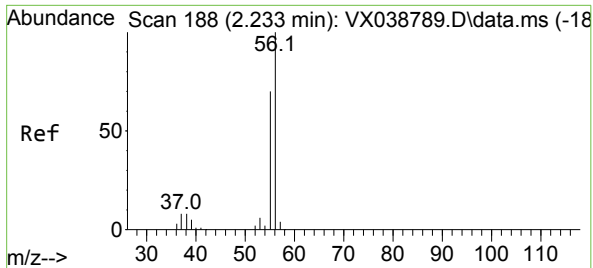
Tgt Ion: 64 Resp: 310  
Ion Ratio Lower Upper  
64 100  
66 0.6 25.1 37.7#



#11  
Tert butyl alcohol  
Concen: 2.739 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.012 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

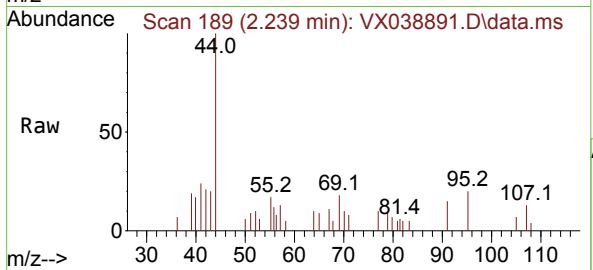
Tgt Ion: 59 Resp: 1413  
Ion Ratio Lower Upper  
59 100  
57 5.1 6.0 9.0#



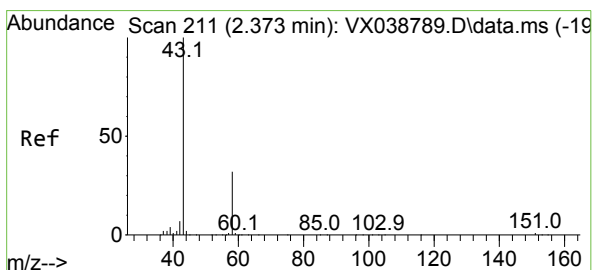
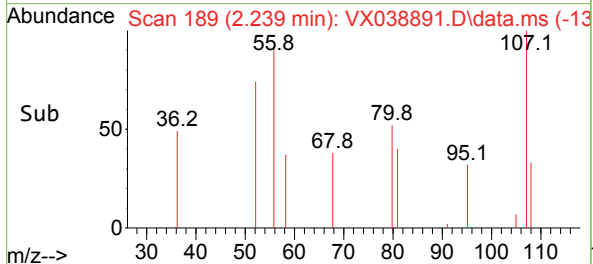


#13  
Acrolein  
Concen: 0.326 ug/l  
RT: 2.239 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

Instrument :  
MSVOA\_X  
ClientSampleId :

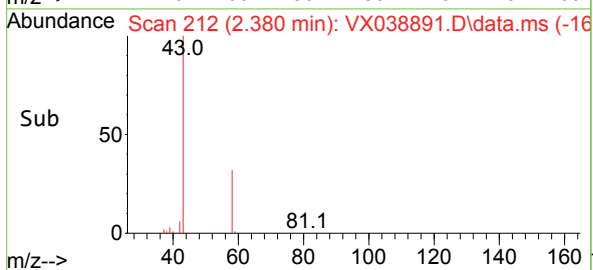
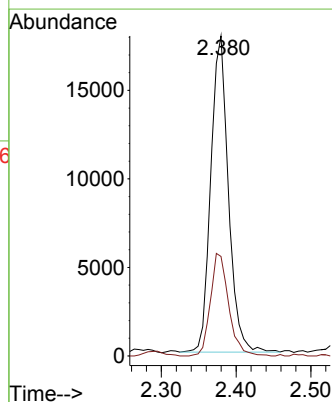
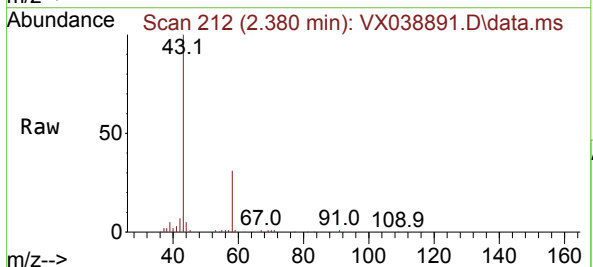


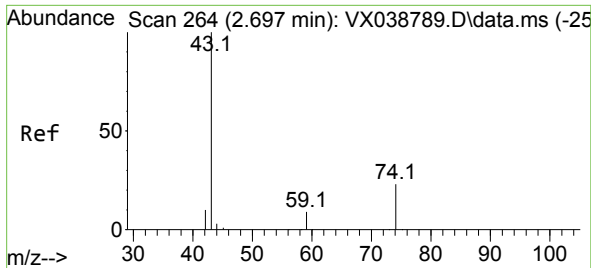
Tgt Ion: 56 Resp: 89  
Ion Ratio Lower Upper  
56 100  
55 116.9 57.1 85.7#



#16  
Acetone  
Concen: 29.681 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.006 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

Tgt Ion: 43 Resp: 29310  
Ion Ratio Lower Upper  
43 100  
58 31.5 21.9 32.9

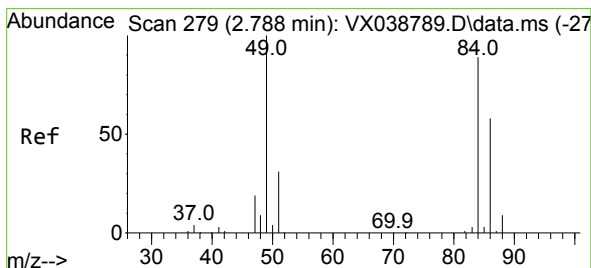
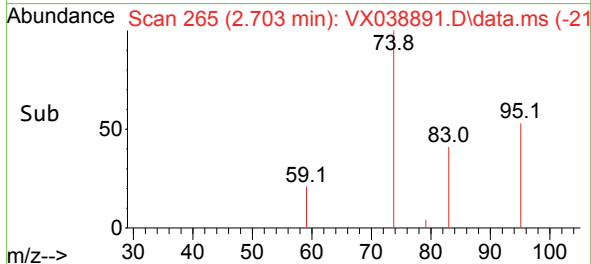
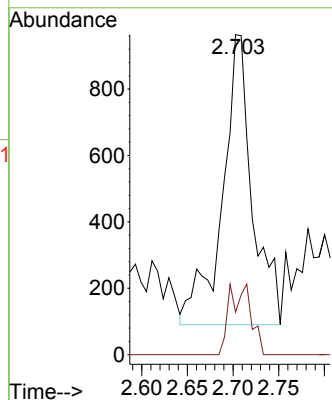
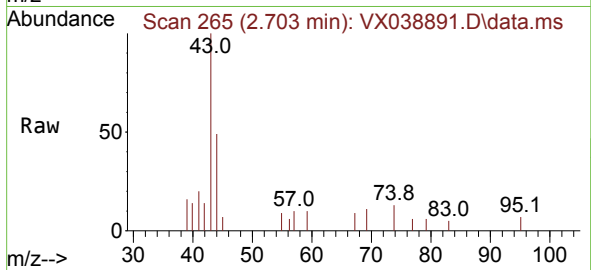




#18  
Methyl Acetate  
Concen: 0.425 ug/l  
RT: 2.703 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

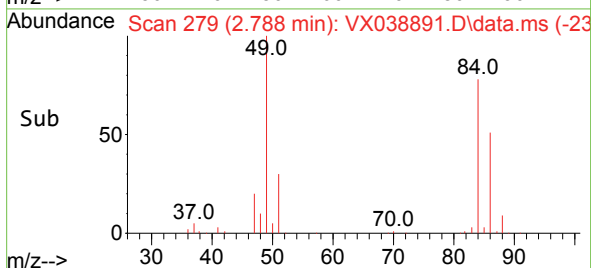
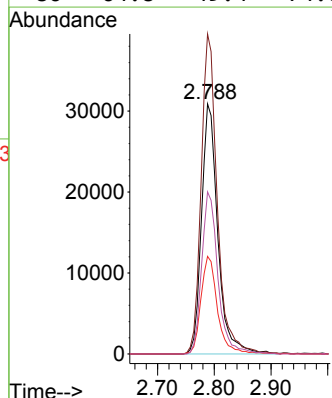
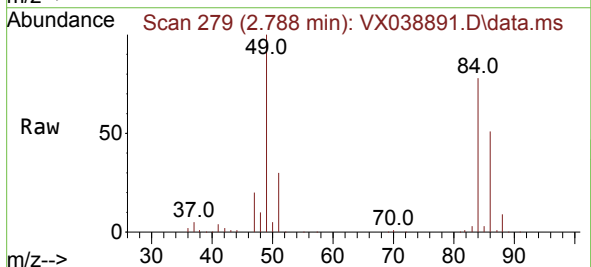
Instrument :  
MSVOA\_X  
ClientSampleId :

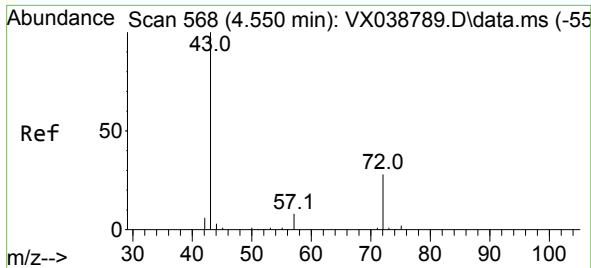
Tgt Ion: 43 Resp: 1995  
Ion Ratio Lower Upper  
43 100  
74 17.4 17.8 26.8#



#20  
Methylene Chloride  
Concen: 34.704 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

Tgt Ion: 84 Resp: 61777  
Ion Ratio Lower Upper  
84 100  
49 127.9 103.6 155.4  
51 39.0 33.8 50.6  
86 64.8 49.4 74.0





#25

2-Butanone

Concen: 1.674 ug/l

RT: 4.580 min Scan# 51

Delta R.T. 0.031 min

Lab File: VX038891.D

Acq: 17 Nov 2023 19:21

Instrument :

MSVOA\_X

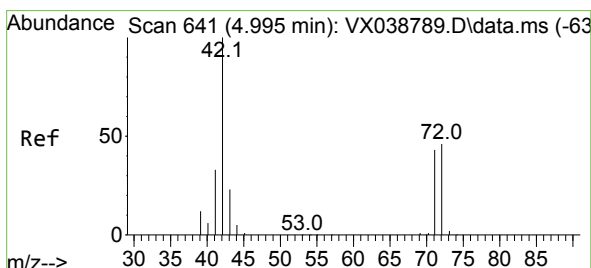
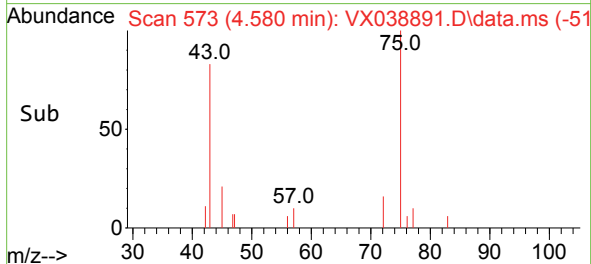
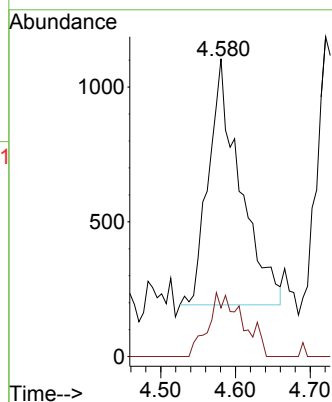
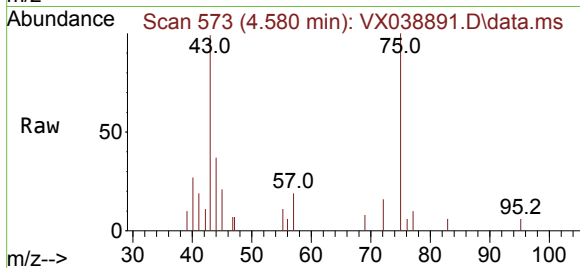
ClientSampleId :

Tgt Ion: 43 Resp: 2680

Ion Ratio Lower Upper

43 100

72 19.8 19.4 29.2



#29

Tetrahydrofuran

Concen: 0.243 ug/l

RT: 4.965 min Scan# 636

Delta R.T. -0.030 min

Lab File: VX038891.D

Acq: 17 Nov 2023 19:21

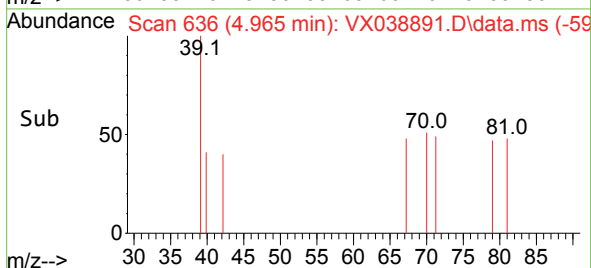
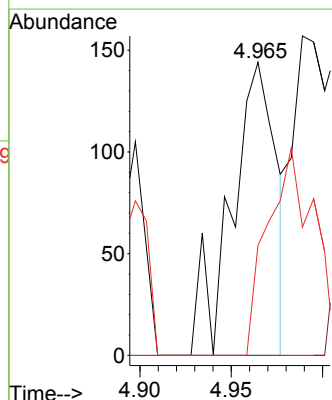
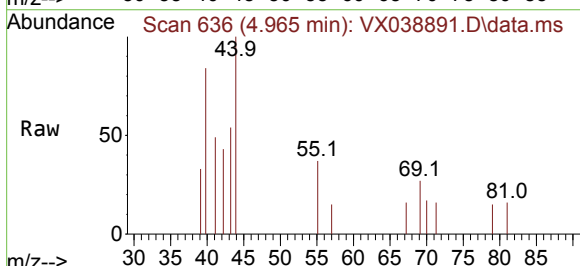
Tgt Ion: 42 Resp: 247

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

71 72.5 32.2 48.2#

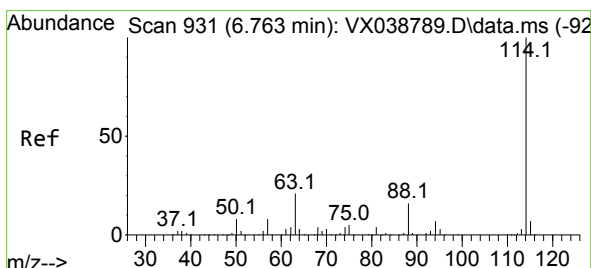
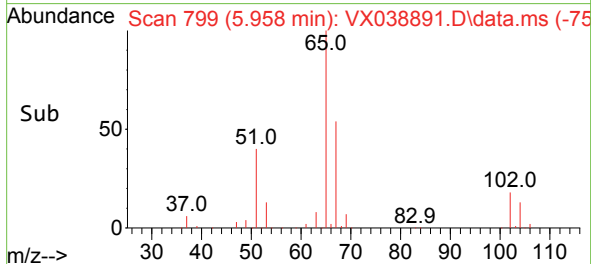
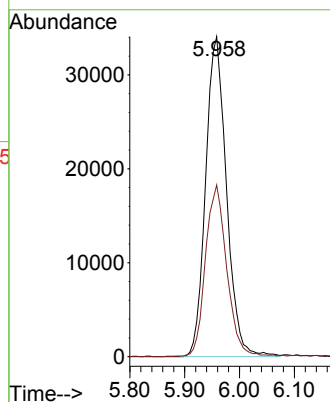
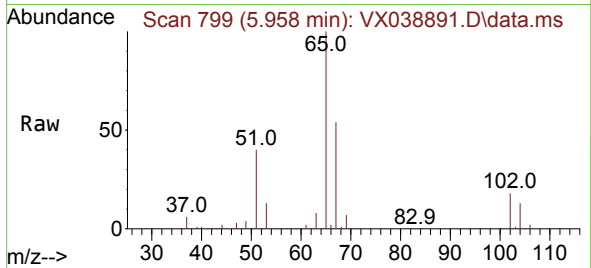




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.488 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX038891.D  
 Acq: 17 Nov 2023 19:21

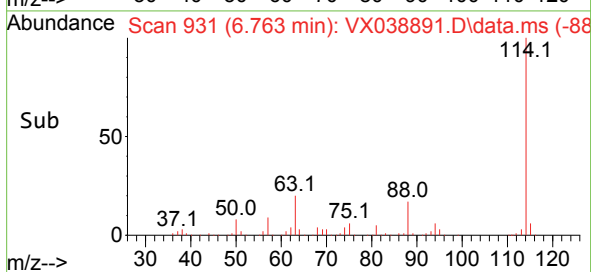
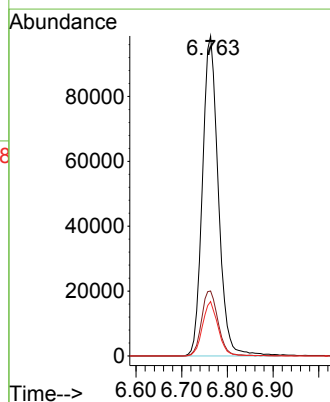
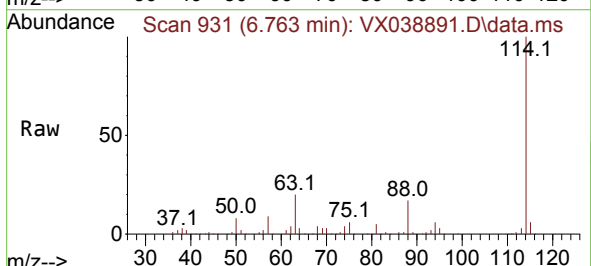
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 65 Resp: 89945  
 Ion Ratio Lower Upper  
 65 100  
 67 55.0 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.000 min  
 Lab File: VX038891.D  
 Acq: 17 Nov 2023 19:21

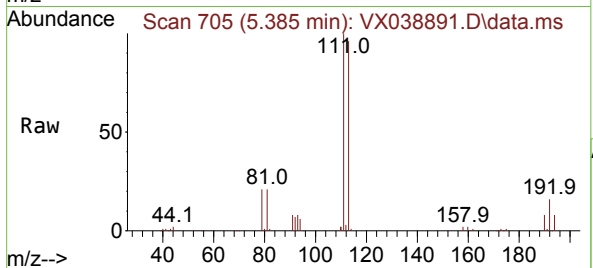
Tgt Ion: 114 Resp: 237859  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 45.0  
 88 17.0 0.0 36.6



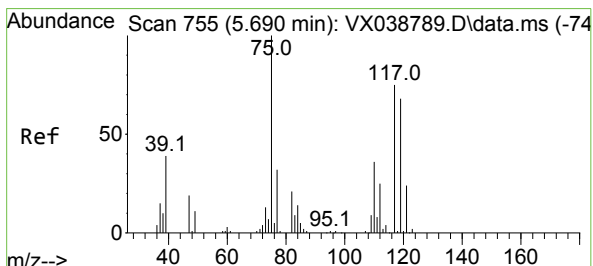
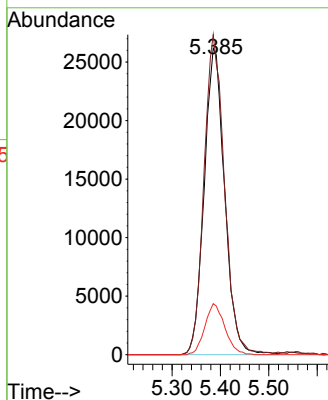
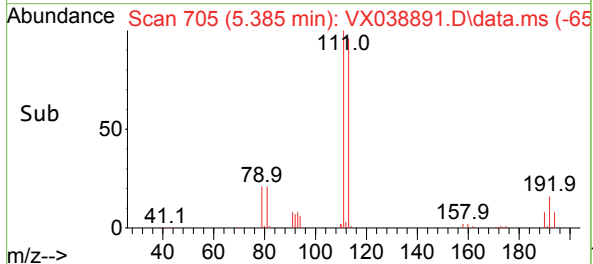


#35  
Dibromofluoromethane  
Concen: 44.847 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

Instrument :  
MSVOA\_X  
ClientSampleId :

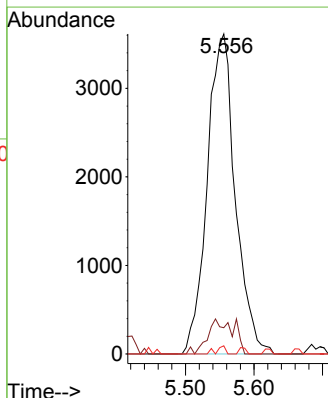
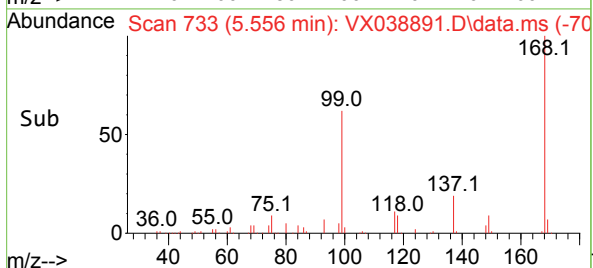
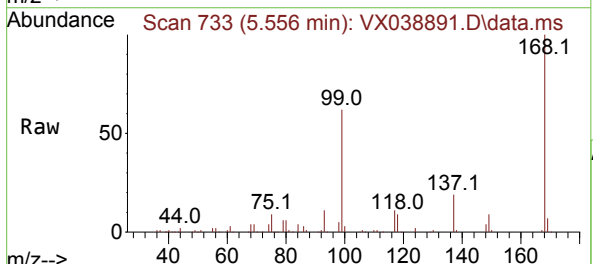


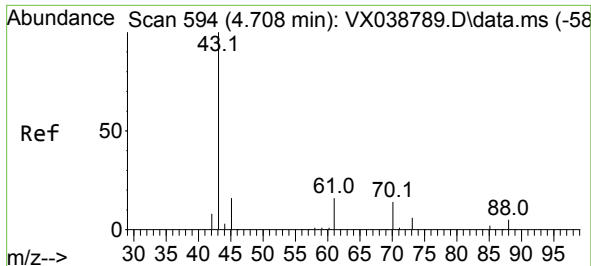
Tgt Ion:113 Resp: 77042  
Ion Ratio Lower Upper  
113 100  
111 104.0 82.9 124.3  
192 16.2 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.190 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

Tgt Ion: 75 Resp: 10316  
Ion Ratio Lower Upper  
75 100  
110 6.2 17.0 50.9#  
77 0.8 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.088 ug/l

RT: 4.733 min Scan# 594

Delta R.T. 0.024 min

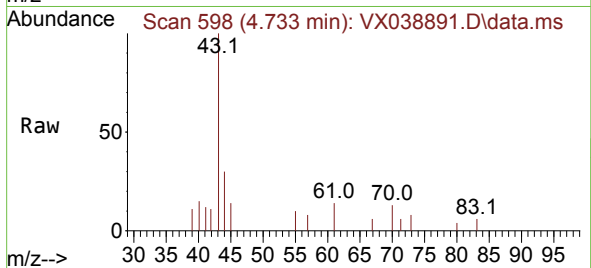
Lab File: VX038891.D

Acq: 17 Nov 2023 19:21

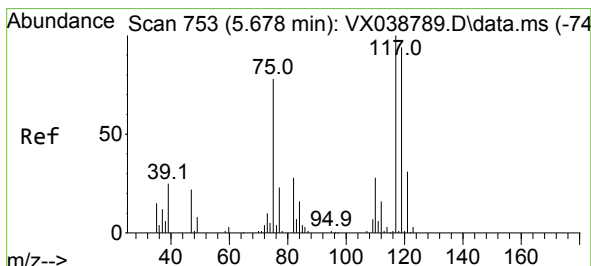
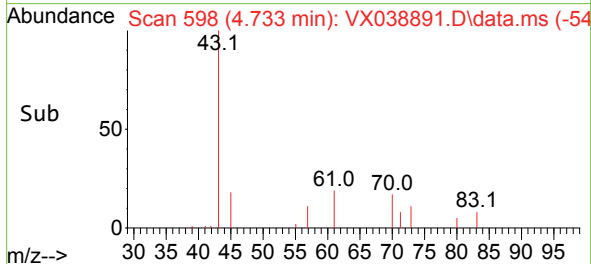
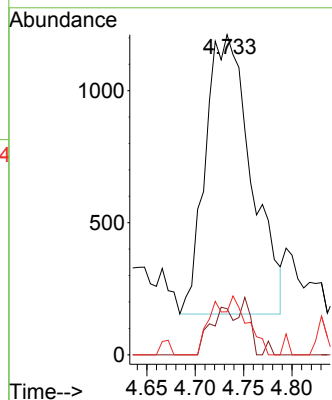
Instrument :

MSVOA\_X

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 3489     |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 61          | 8.4 10.6 16.0# |
| 70          | 16.1 8.3 12.5# |



#38

Carbon Tetrachloride

Concen: 5.651 ug/l

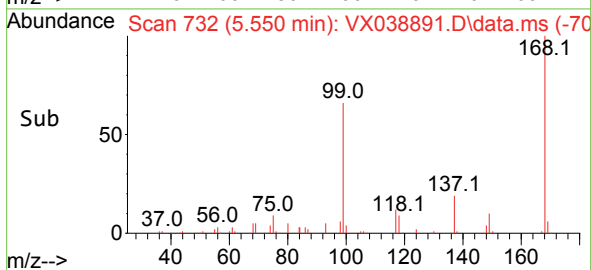
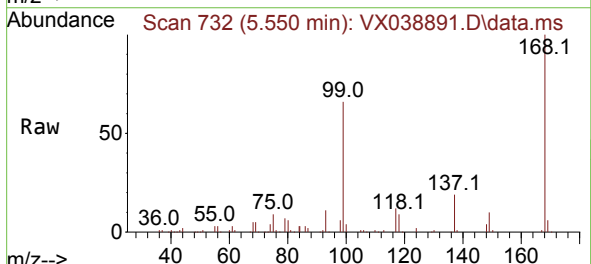
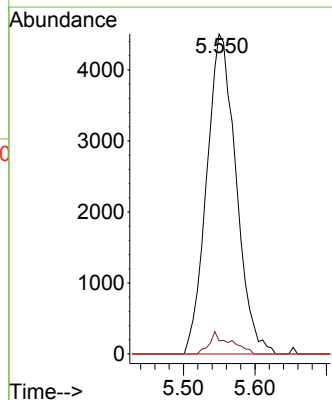
RT: 5.550 min Scan# 732

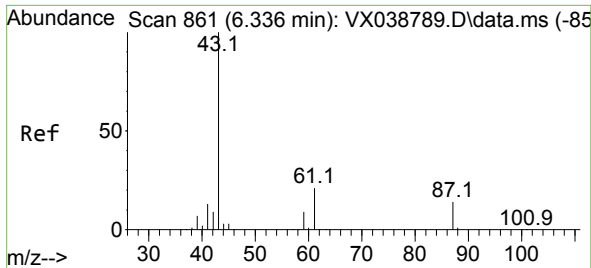
Delta R.T. -0.128 min

Lab File: VX038891.D

Acq: 17 Nov 2023 19:21

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 12858     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 4.1 78.2 117.2# |
| 121          | 0.0 24.4 36.6#  |

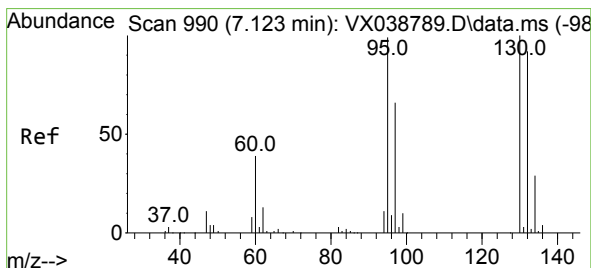
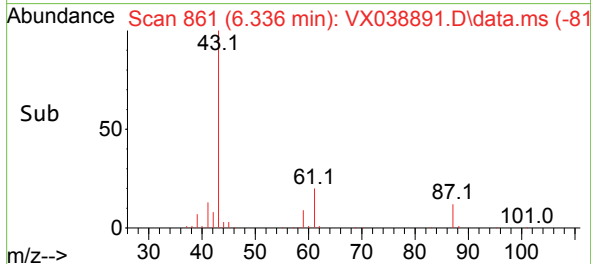
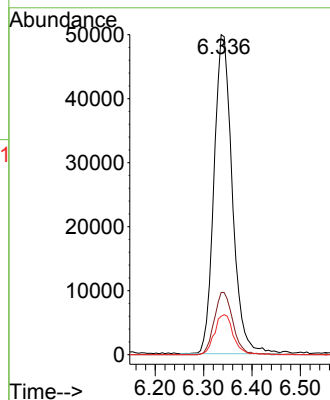
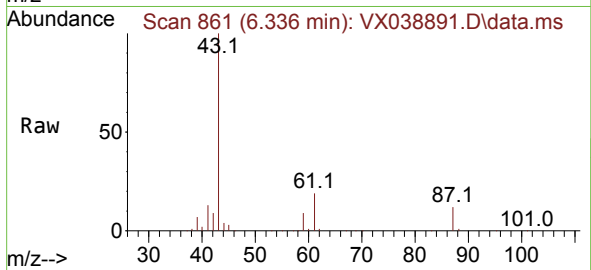




#43  
Isopropyl Acetate  
Concen: 25.493 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. 0.000 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

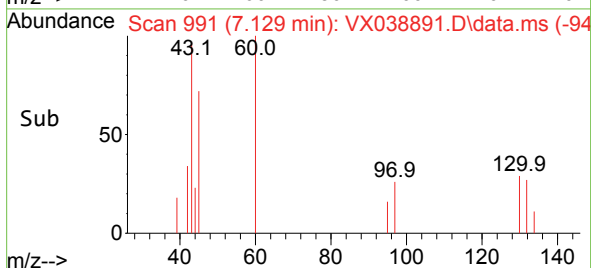
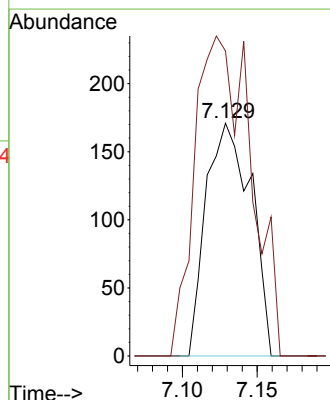
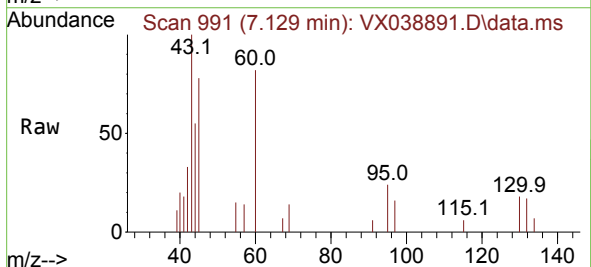
Instrument :  
MSVOA\_X  
ClientSampleId :

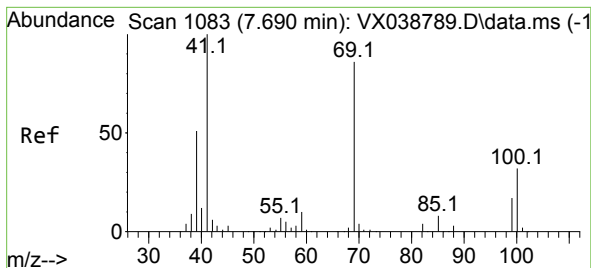
Tgt Ion: 43 Resp: 130690  
Ion Ratio Lower Upper  
43 100  
61 19.9 15.2 22.8  
87 12.9 9.8 14.6



#44  
Trichloroethene  
Concen: 0.202 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

Tgt Ion:130 Resp: 358  
Ion Ratio Lower Upper  
130 100  
95 131.0 0.0 204.4





#48

Methyl methacrylate

Concen: 39.841 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX038891.D

Acq: 17 Nov 2023 19:21

Instrument :

MSVOA\_X

ClientSampleId :

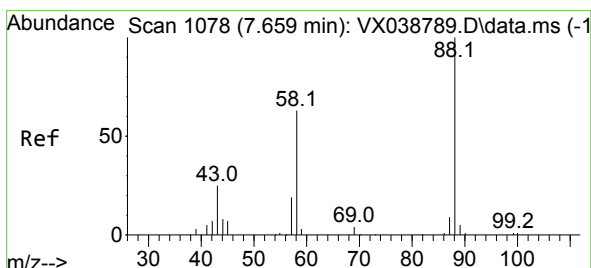
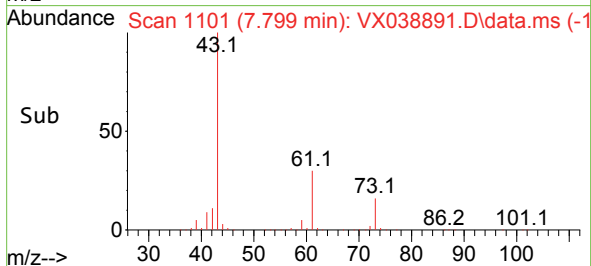
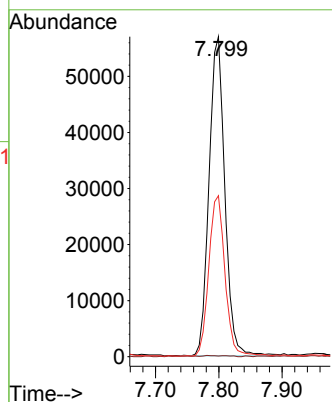
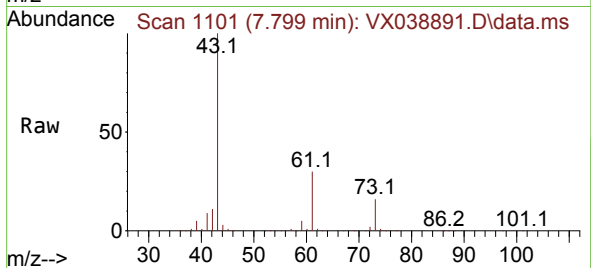
Tgt Ion: 41 Resp: 99096

Ion Ratio Lower Upper

41 100

69 0.2 59.2 88.8#

39 51.3 47.7 71.5



#49

1,4-Dioxane

Concen: 3.138 ug/l

RT: 7.787 min Scan# 1099

Delta R.T. 0.128 min

Lab File: VX038891.D

Acq: 17 Nov 2023 19:21

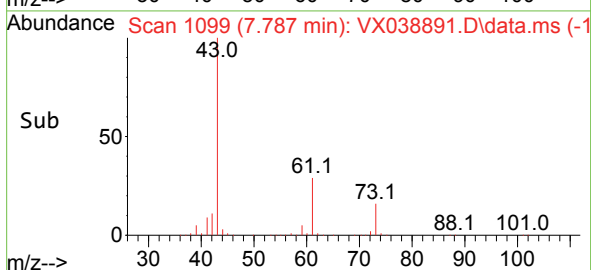
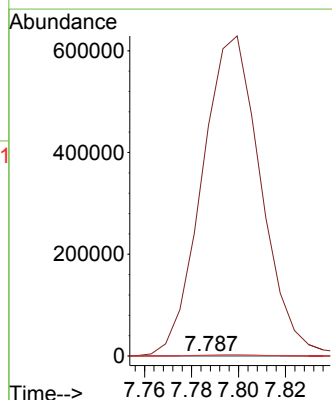
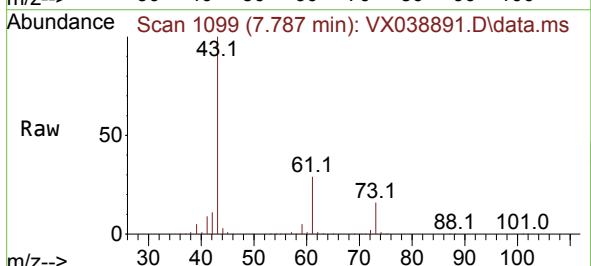
Tgt Ion: 88 Resp: 151

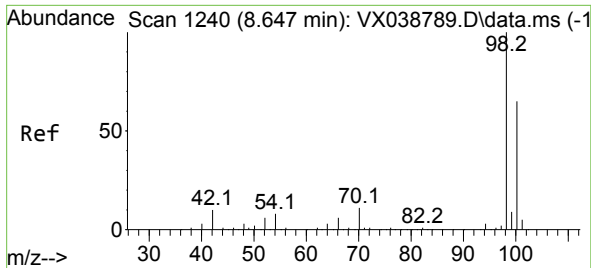
Ion Ratio Lower Upper

88 100

43 737707.9 0.0 0.0#

58 2785.4 60.1 90.1#

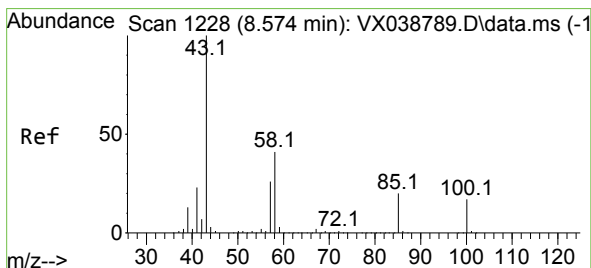
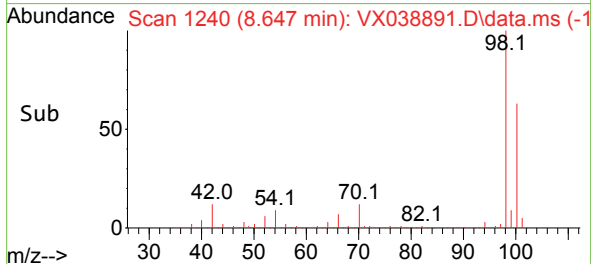
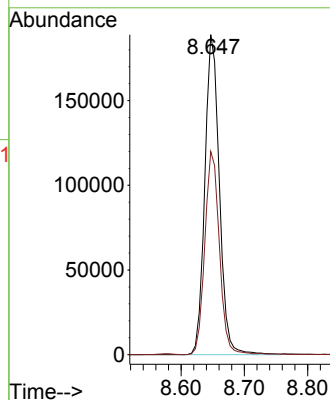
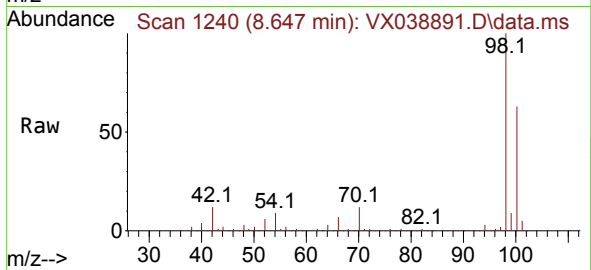




#50  
Toluene-d8  
Concen: 46.017 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

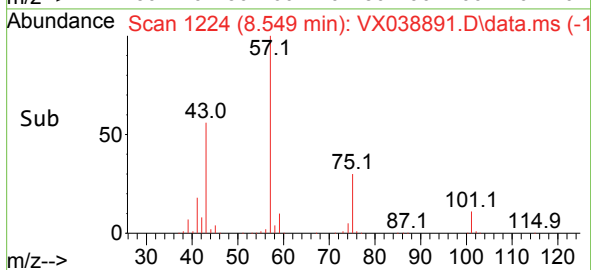
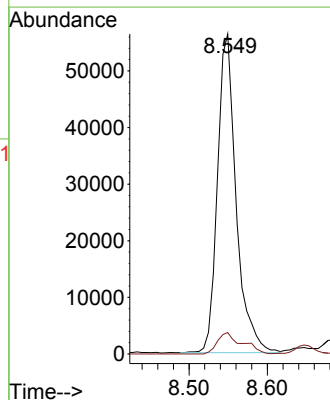
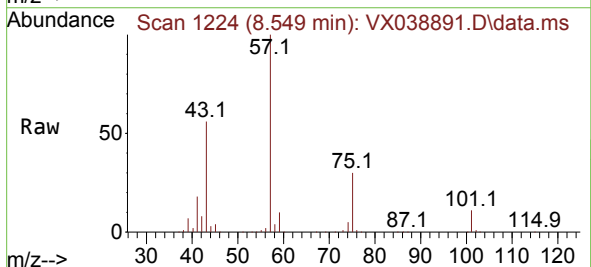
Instrument :  
MSVOA\_X  
ClientSampleId :

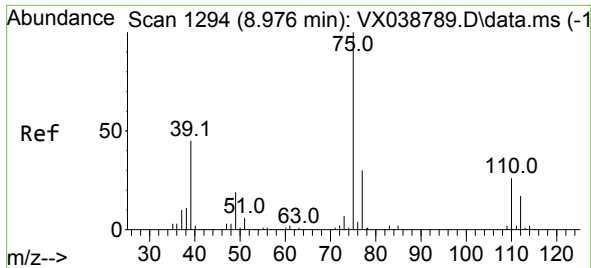
Tgt Ion: 98 Resp: 302455  
Ion Ratio Lower Upper  
98 100  
100 64.1 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 28.559 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

Tgt Ion: 43 Resp: 93562  
Ion Ratio Lower Upper  
43 100  
58 8.9 30.4 45.6#

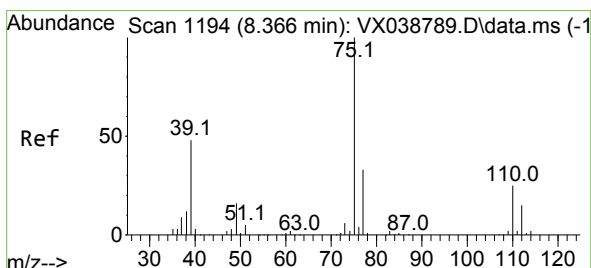
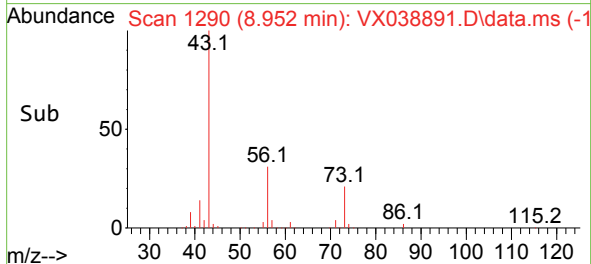
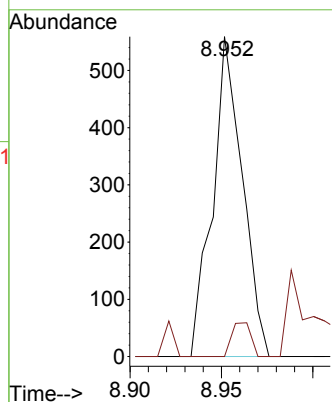
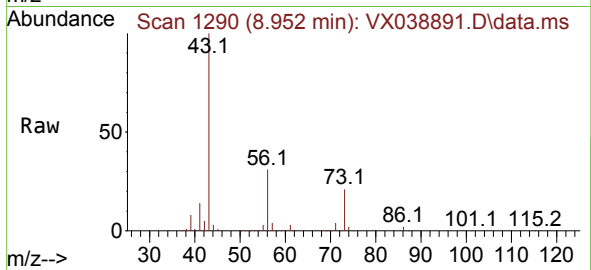




#53  
 t-1,3-Dichloropropene  
 Concen: 0.205 ug/l  
 RT: 8.952 min Scan# 11  
 Delta R.T. -0.024 min  
 Lab File: VX038891.D  
 Acq: 17 Nov 2023 19:21

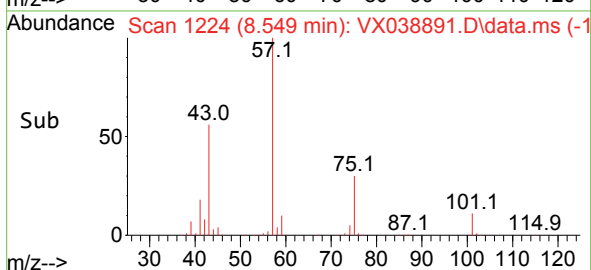
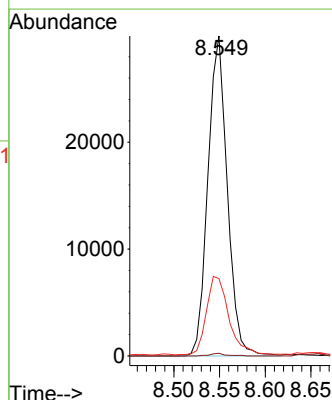
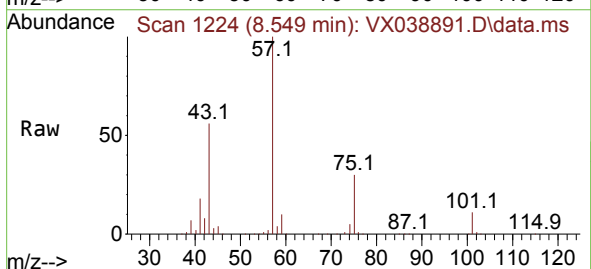
Instrument :  
 MSVOA\_X  
 ClientSampleId :

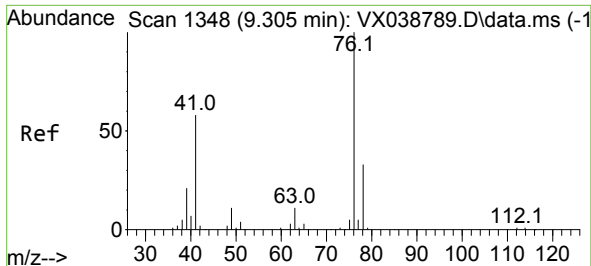
Tgt Ion: 75 Resp: 633  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 13.844 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX038891.D  
 Acq: 17 Nov 2023 19:21

Tgt Ion: 75 Resp: 44078  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 25.3 37.9#  
 39 23.8 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.636 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.177 min

Lab File: VX038891.D

Acq: 17 Nov 2023 19:21

Instrument :

MSVOA\_X

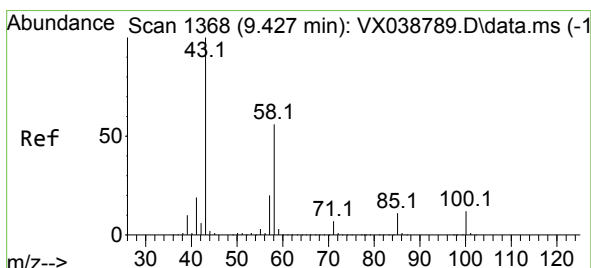
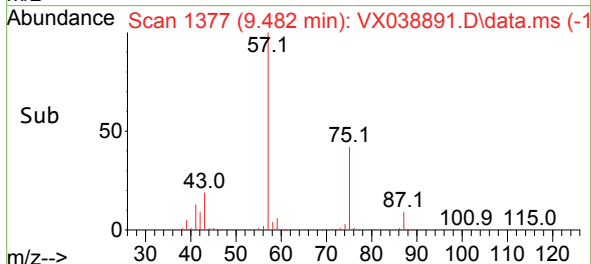
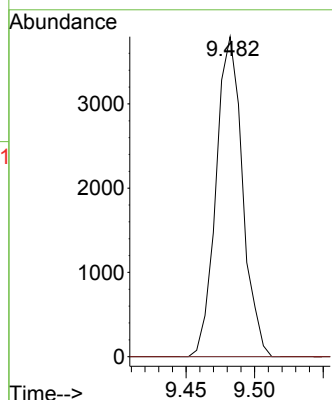
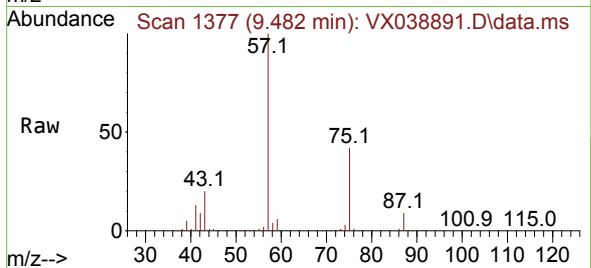
ClientSampleId :

Tgt Ion: 76 Resp: 5102

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 42.885 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX038891.D

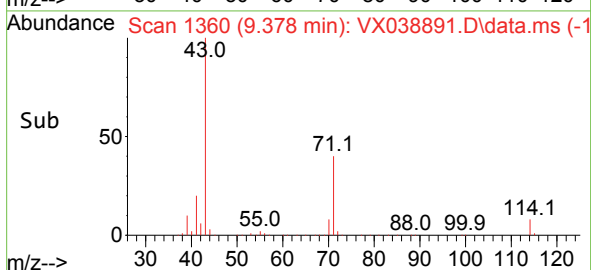
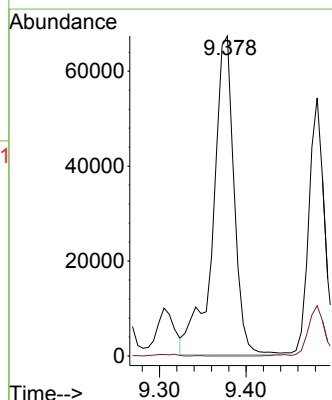
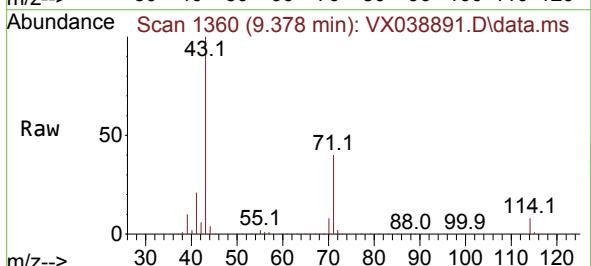
Acq: 17 Nov 2023 19:21

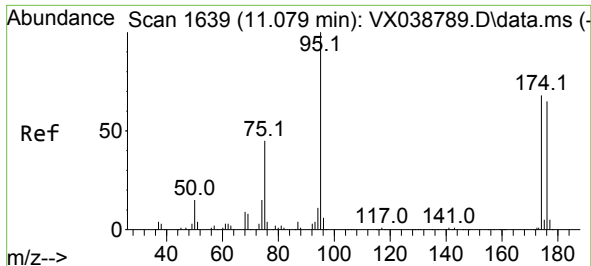
Tgt Ion: 43 Resp: 112610

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#

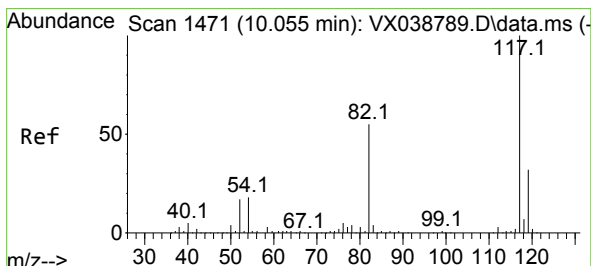
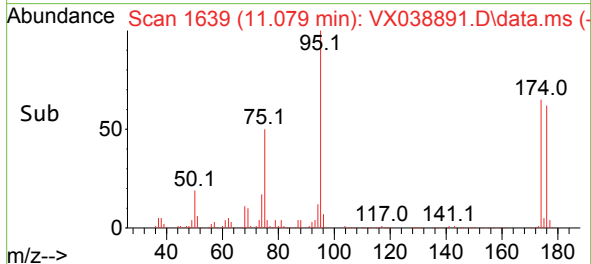
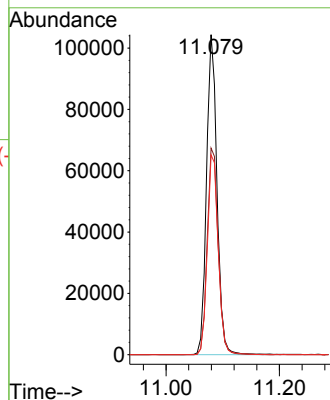
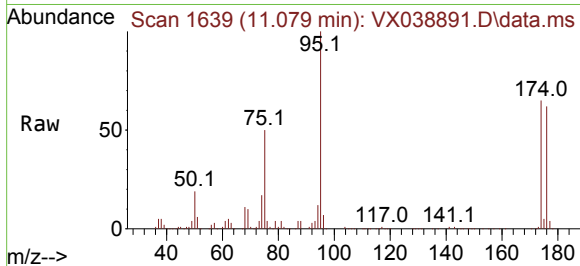




#62  
4-Bromofluorobenzene  
Concen: 50.939 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

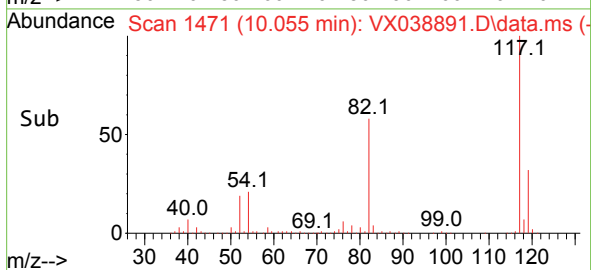
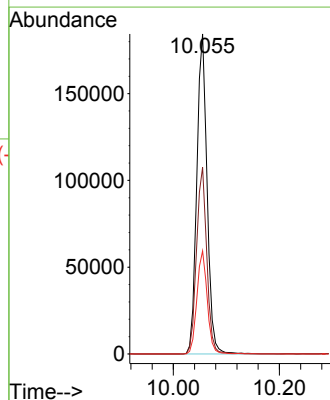
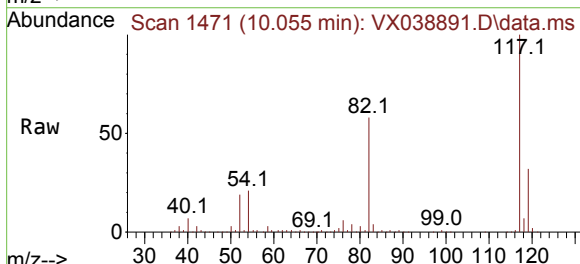
Instrument :  
MSVOA\_X  
ClientSampleId :

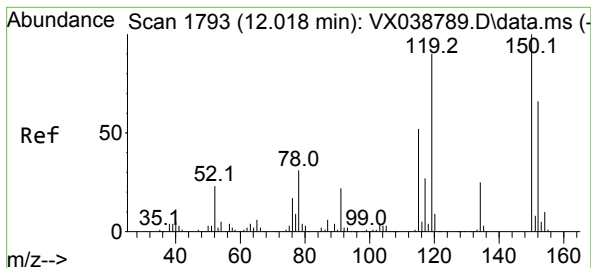
Tgt Ion: 95 Resp: 134024  
Ion Ratio Lower Upper  
95 100  
174 67.3 0.0 135.6  
176 64.9 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038891.D  
Acq: 17 Nov 2023 19:21

Tgt Ion: 117 Resp: 248017  
Ion Ratio Lower Upper  
117 100  
82 58.3 46.2 69.4  
119 32.2 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX038891.D

Acq: 17 Nov 2023 19:21

Instrument :

MSVOA\_X

ClientSampleId :

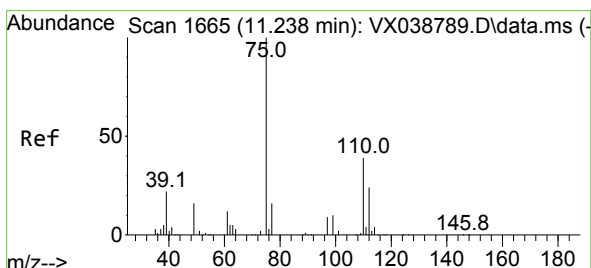
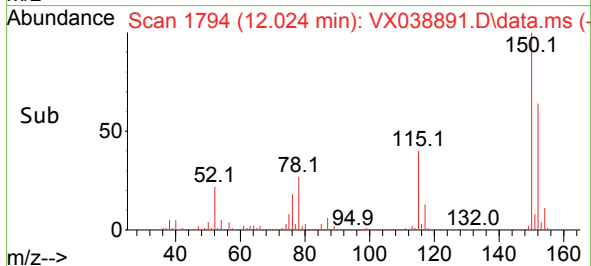
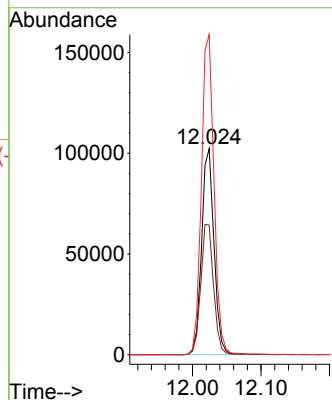
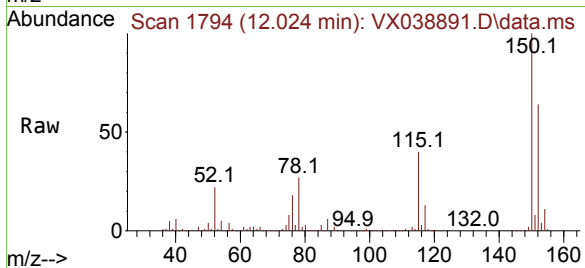
Tgt Ion:152 Resp: 129164

Ion Ratio Lower Upper

152 100

115 65.2 43.3 129.9

150 157.4 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 20.799 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX038891.D

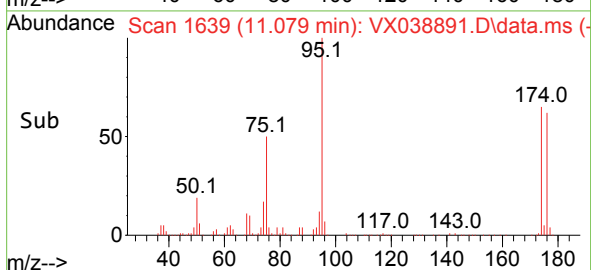
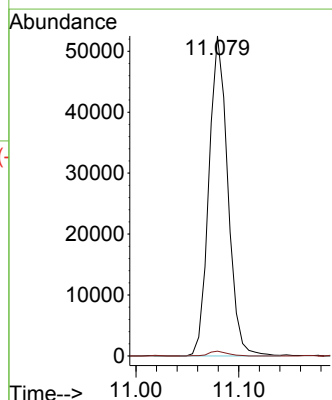
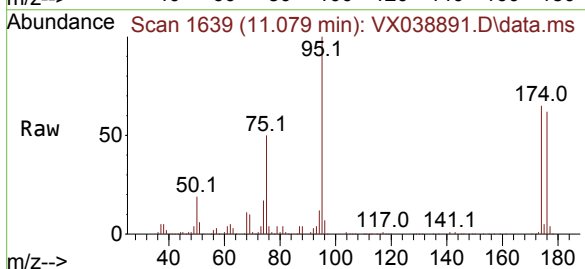
Acq: 17 Nov 2023 19:21

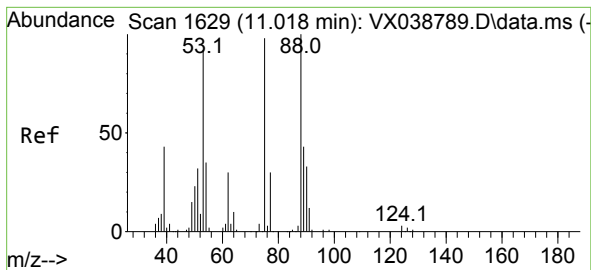
Tgt Ion: 75 Resp: 67028

Ion Ratio Lower Upper

75 100

77 1.5 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 46.135 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038891.D  
 Acq: 17 Nov 2023 19:21

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 75 Resp: 67028  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

