

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082923\  
 Data File : VX037367.D  
 Acq On : 30 Aug 2023 03:58  
 Operator : JC/MD  
 Sample : 04197-11  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 45 Sample Multiplier: 1

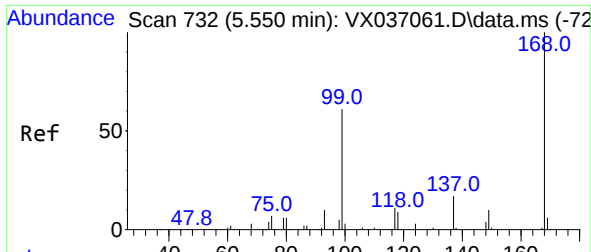
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 30 04:53:39 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  | 147964     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 248959     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 229995     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 104907     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 93195      | 43.689  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 87.380% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 75856      | 46.007  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 92.020% |        |          |
| 50) Toluene-d8                | 8.646          | 98   | 297320     | 49.712  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 99.420% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 112286     | 47.774  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 95.540% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 6) Chloroethane               | 1.666          | 64   | 578        | 0.600   | ug/l # | 43       |
| 8) Diethyl Ether              | 2.135          | 74   | 1211       | 1.167   | ug/l   | 73       |
| 11) Tert butyl alcohol        | 2.971          | 59   | 205        | 0.410   | ug/l # | 78       |
| 16) Acetone                   | 2.379          | 43   | 21938      | 26.288  | ug/l # | 89       |
| 18) Methyl Acetate            | 2.702          | 43   | 2676       | 0.852   | ug/l   | 97       |
| 20) Methylene Chloride        | 2.788          | 84   | 16722      | 8.960   | ug/l # | 88       |
| 25) 2-Butanone                | 4.568          | 43   | 7793       | 6.202   | ug/l # | 83       |
| 29) Tetrahydrofuran           | 5.043          | 42   | 344        | 0.429   | ug/l # | 39       |
| 31) Cyclohexane               | 5.550          | 56   | 2936       | 1.224   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 11320      | 4.832   | ug/l # | 52       |
| 37) Ethyl Acetate             | 4.733          | 43   | 1759       | 0.735   | ug/l # | 86       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 15815      | 6.215   | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 85111      | 22.404  | ug/l # | 91       |
| 48) Methyl methacrylate       | 7.799          | 41   | 73352      | 39.592  | ug/l # | 47       |
| 49) 1,4-Dioxane               | 7.793          | 88   | 169        | 3.387   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 83802      | 36.328  | ug/l # | 37       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 37305      | 12.971  | ug/l # | 50       |
| 56) Ethyl methacrylate        | 9.250          | 69   | 675        | 0.238   | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 4702       | 1.543   | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482          | 43   | 54751      | 31.128  | ug/l # | 54       |
| 74) N-amyl acetate            | 10.640         | 43   | 16010      | 5.404   | ug/l # | 54       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 55031      | 24.631  | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 55031      | 68.797  | ug/l # | 5        |
| -----                         |                |      |            |         |        |          |

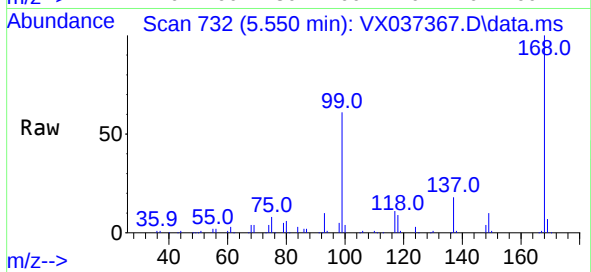
(#) = qualifier out of range (m) = manual integration (+) = signals summed



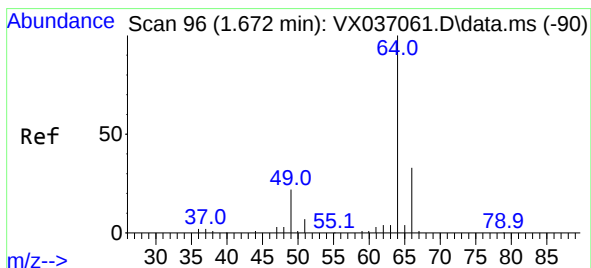
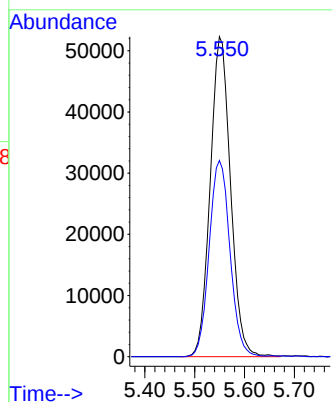
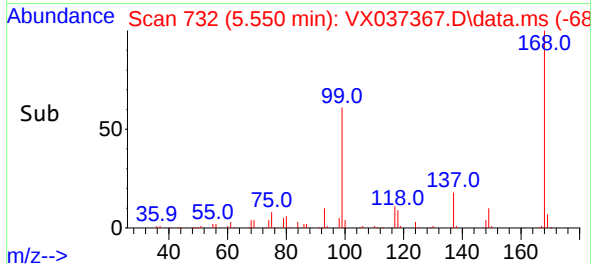


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Instrument :  
MSVOA\_X  
ClientSampleId :

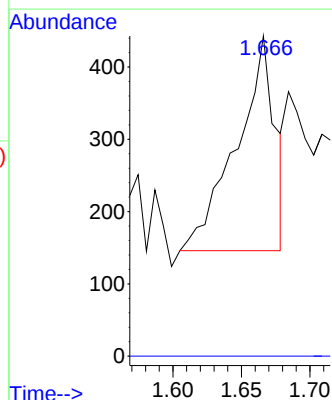
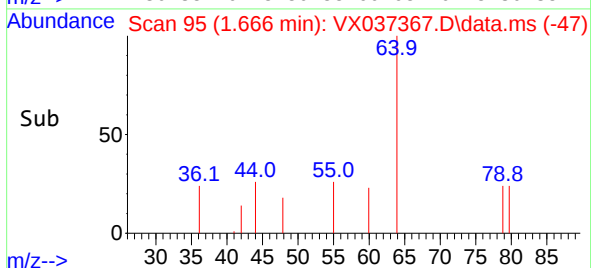
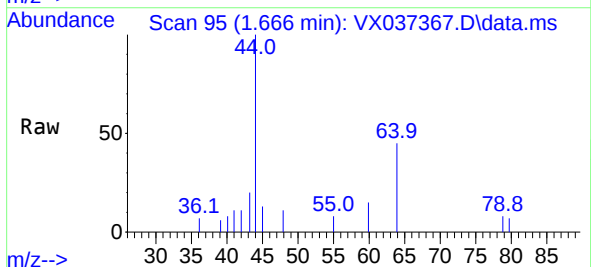


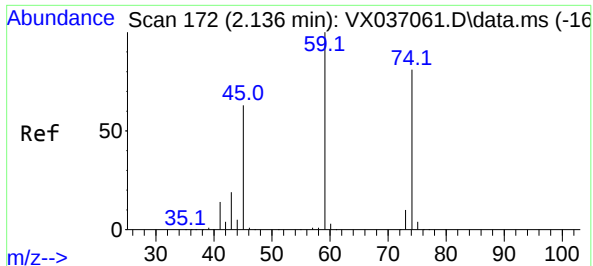
Tgt Ion:168 Resp: 147964  
Ion Ratio Lower Upper  
168 100  
99 61.3 56.6 85.0



#6  
Chloroethane  
Concen: 0.600 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.006 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Tgt Ion: 64 Resp: 578  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#

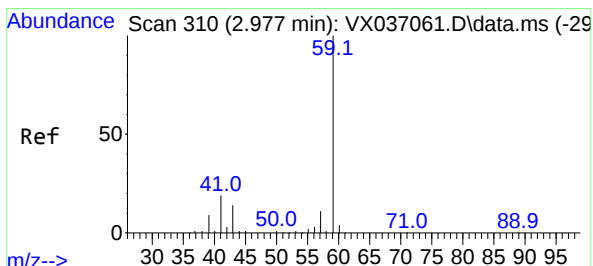
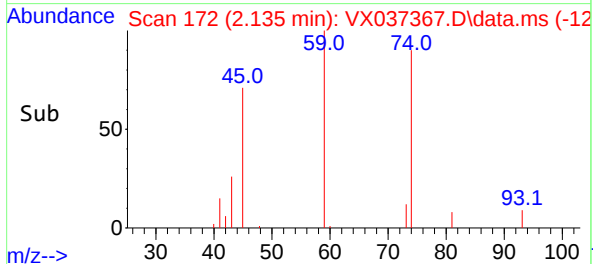
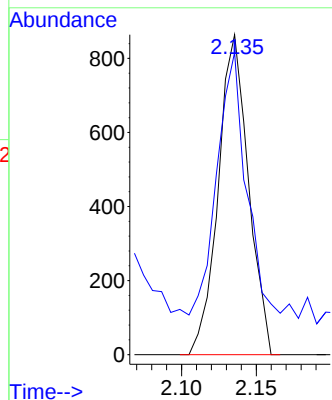
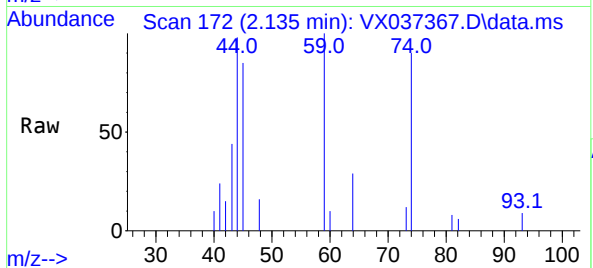




#8  
Diethyl Ether  
Concen: 1.167 ug/l  
RT: 2.135 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

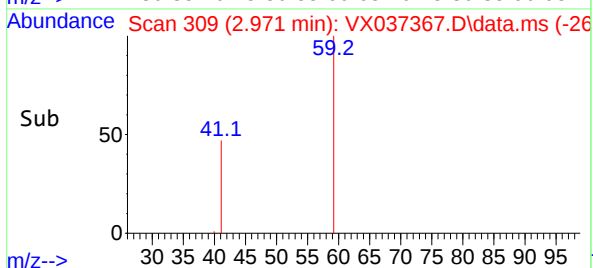
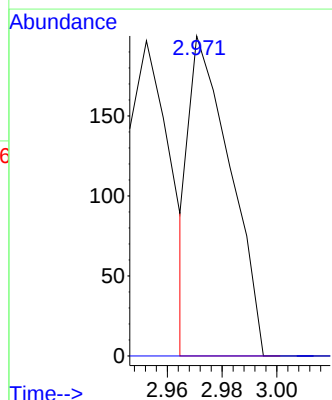
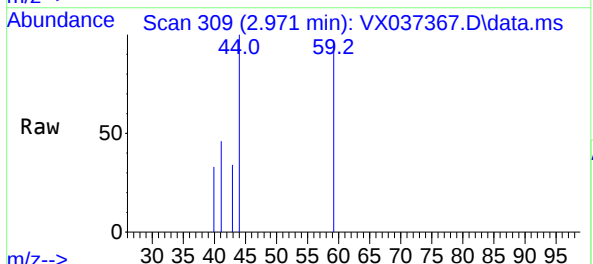
Instrument :  
MSVOA\_X  
ClientSampleId :

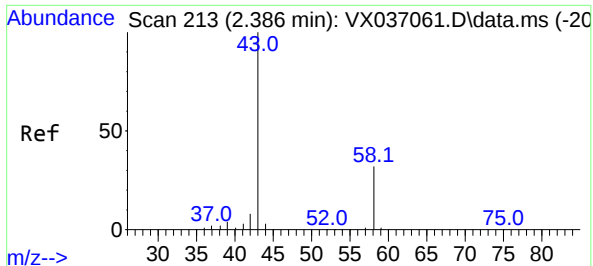
Tgt Ion: 74 Resp: 1211  
Ion Ratio Lower Upper  
74 100  
45 78.4 53.3 159.8



#11  
Tert butyl alcohol  
Concen: 0.410 ug/l  
RT: 2.971 min Scan# 309  
Delta R.T. -0.006 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Tgt Ion: 59 Resp: 205  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

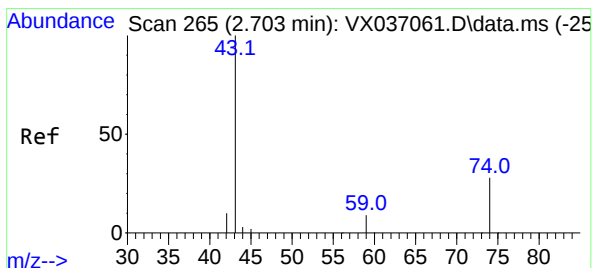
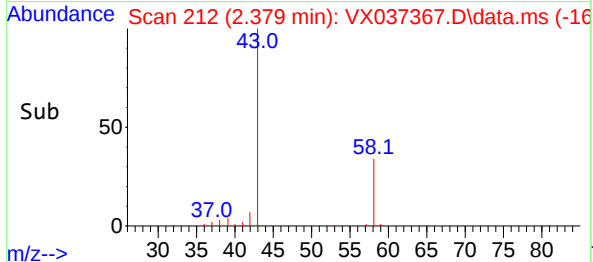
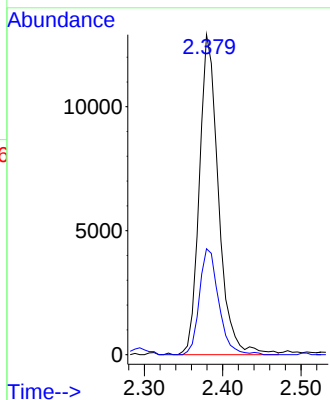
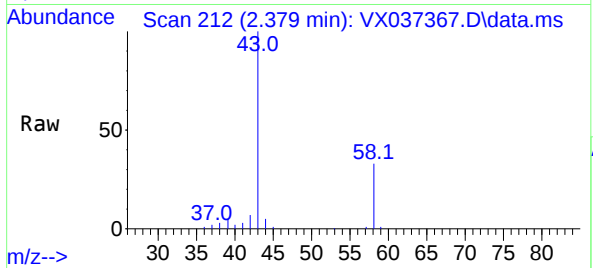




#16  
Acetone  
Concen: 26.288 ug/l  
RT: 2.379 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

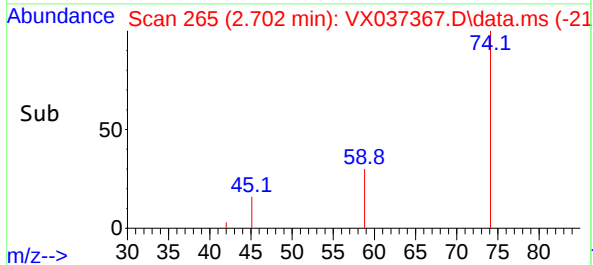
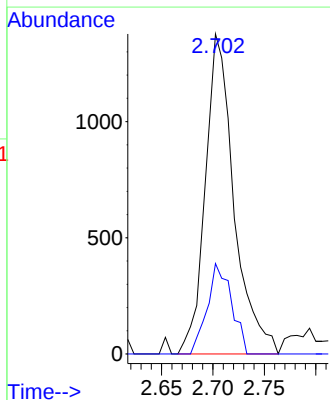
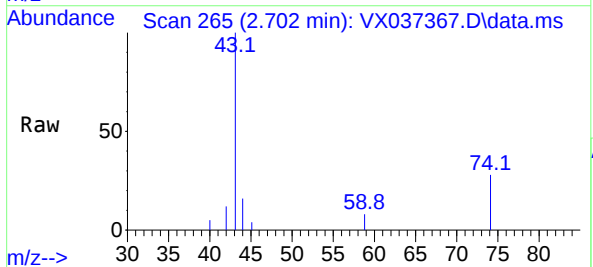
Instrument :  
MSVOA\_X  
ClientSampleId :

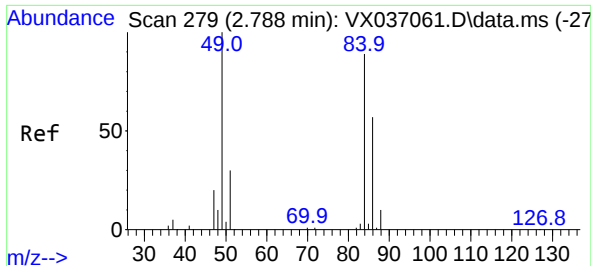
Tgt Ion: 43 Resp: 21938  
Ion Ratio Lower Upper  
43 100  
58 33.1 21.9 32.9#



#18  
Methyl Acetate  
Concen: 0.852 ug/l  
RT: 2.702 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

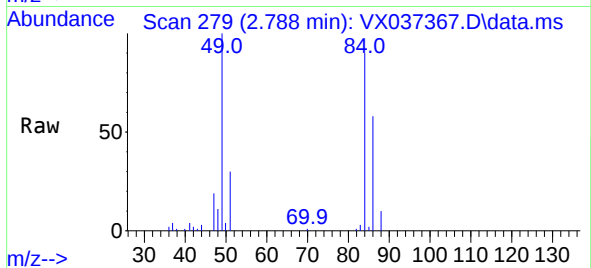
Tgt Ion: 43 Resp: 2676  
Ion Ratio Lower Upper  
43 100  
74 23.8 17.8 26.8





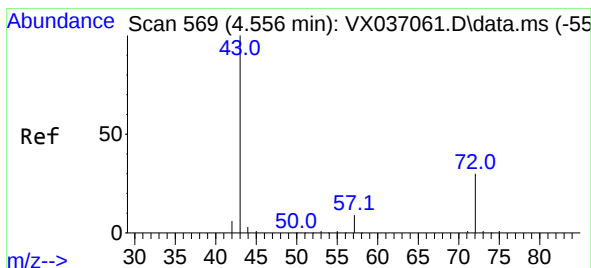
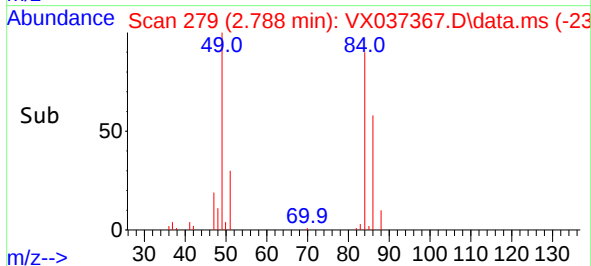
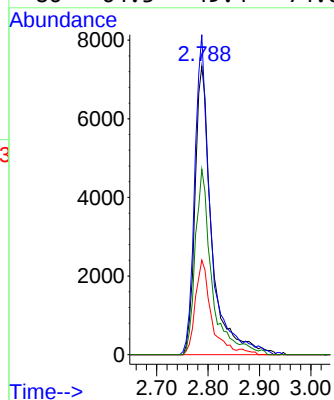
#20  
Methylene Chloride  
Concen: 8.960 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 16722

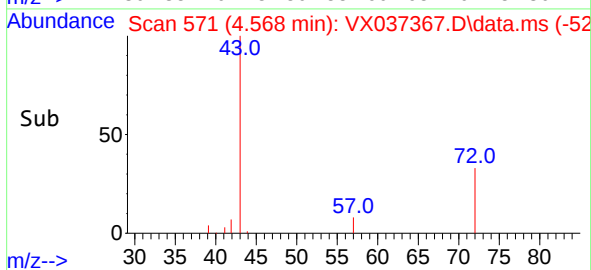
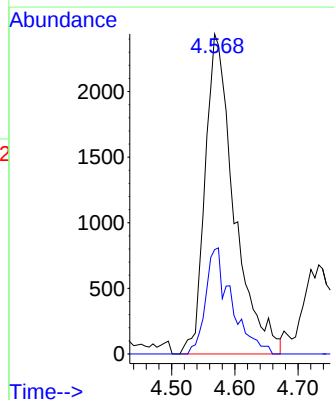
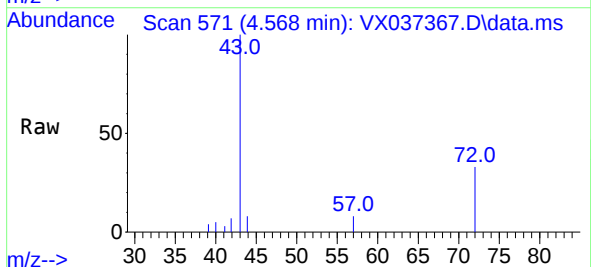
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 110.9 | 103.6 | 155.4 |
| 51  | 32.8  | 33.8  | 50.6# |
| 86  | 64.3  | 49.4  | 74.0  |

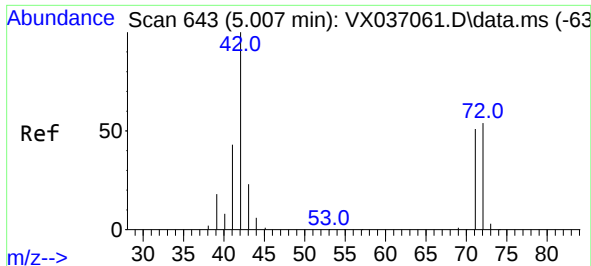


#25  
2-Butanone  
Concen: 6.202 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.012 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Tgt Ion: 43 Resp: 7793

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 32.6  | 19.4  | 29.2# |





#29

Tetrahydrofuran

Concen: 0.429 ug/l

RT: 5.043 min Scan# 64

Delta R.T. 0.036 min

Lab File: VX037367.D

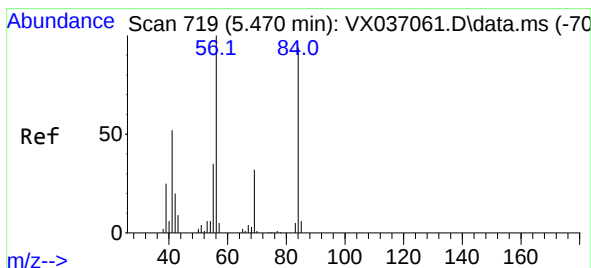
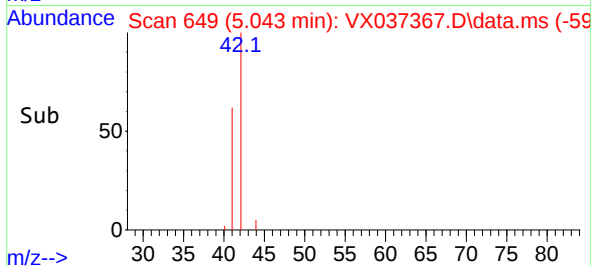
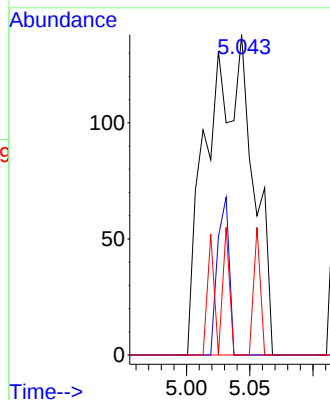
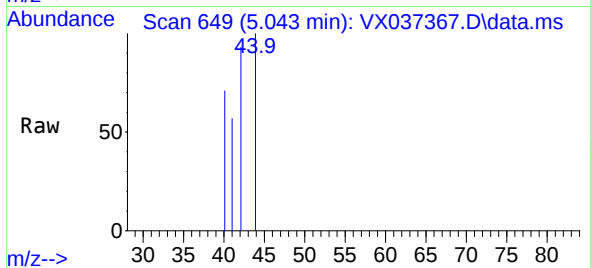
Acq: 30 Aug 2023 03:58

Instrument :

MSVOA\_X

ClientSampleId :

|             |             |
|-------------|-------------|
| Tgt Ion: 42 | Resp: 344   |
| Ion Ratio   | Lower Upper |
| 42 100      |             |
| 72 0.0      | 34.2 51.4#  |
| 71 5.8      | 32.2 48.2#  |



#31

Cyclohexane

Concen: 1.224 ug/l

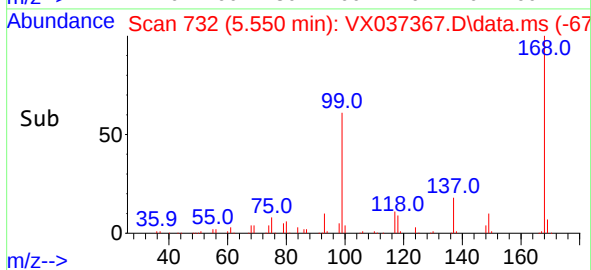
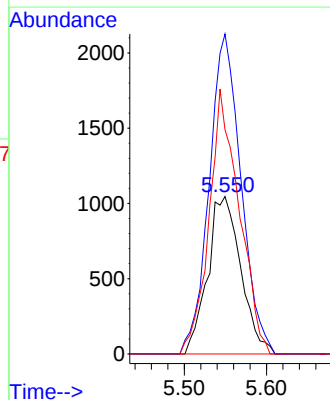
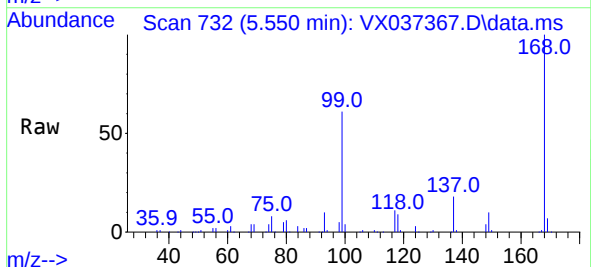
RT: 5.550 min Scan# 732

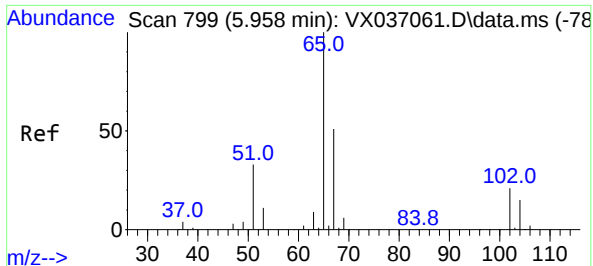
Delta R.T. 0.079 min

Lab File: VX037367.D

Acq: 30 Aug 2023 03:58

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 2936  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 203.3    | 23.4 35.2#  |
| 84 142.4    | 65.9 98.9#  |





#33

1,2-Dichloroethane-d4

Concen: 43.689 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX037367.D

Acq: 30 Aug 2023 03:58

Instrument :

MSVOA\_X

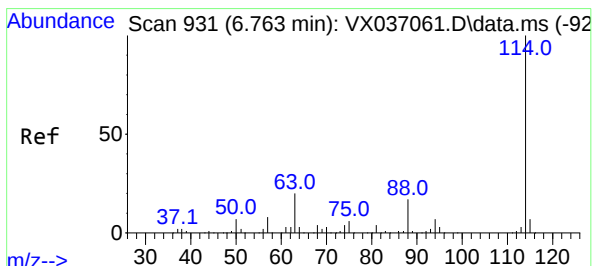
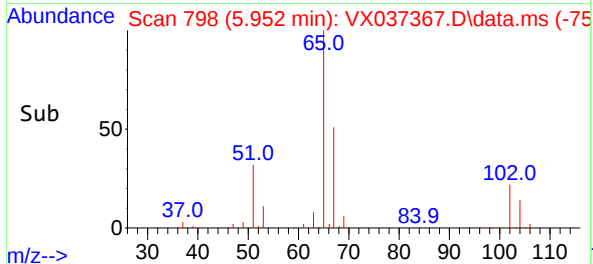
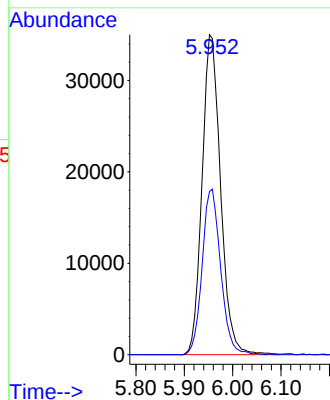
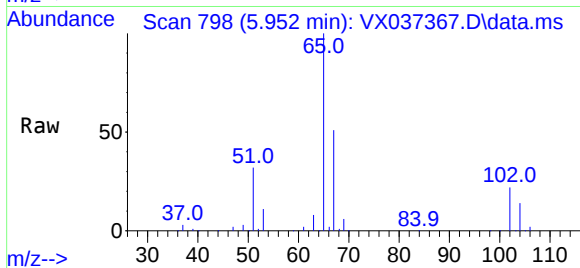
ClientSampleId :

Tgt Ion: 65 Resp: 93195

Ion Ratio Lower Upper

65 100

67 51.6 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: VX037367.D

Acq: 30 Aug 2023 03:58

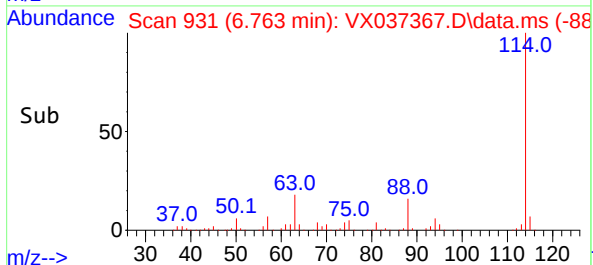
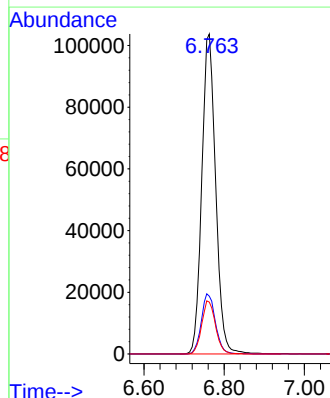
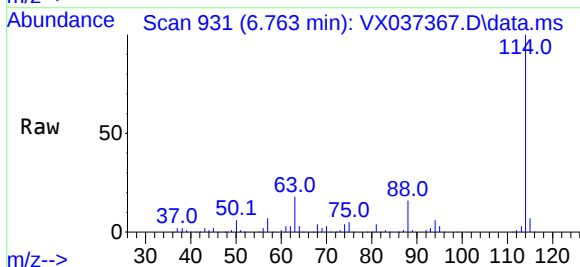
Tgt Ion: 114 Resp: 248959

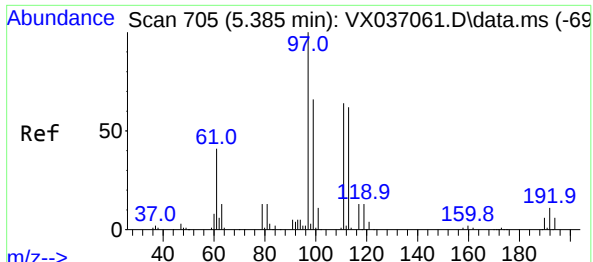
Ion Ratio Lower Upper

114 100

63 18.0 0.0 45.0

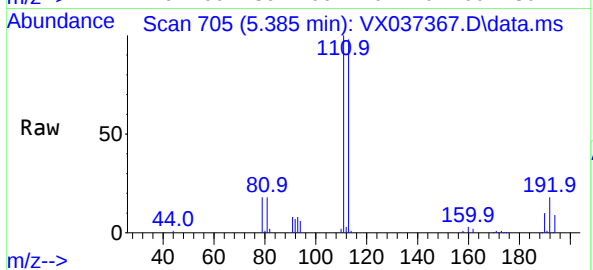
88 16.2 0.0 36.6





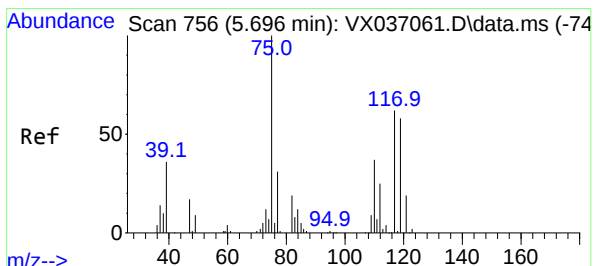
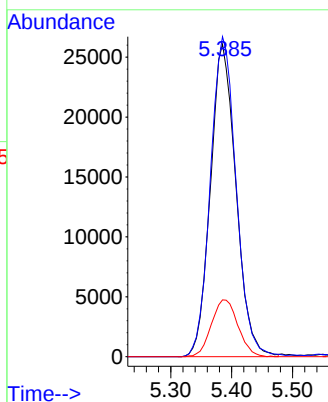
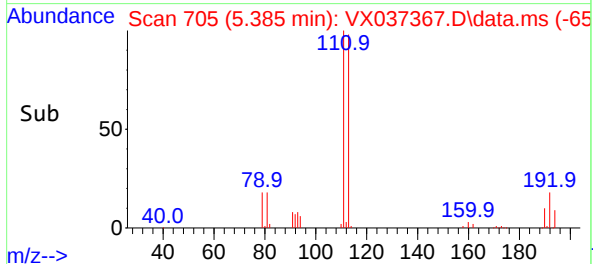
#35  
Dibromofluoromethane  
Concen: 46.007 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Instrument :  
MSVOA\_X  
ClientSampleId :

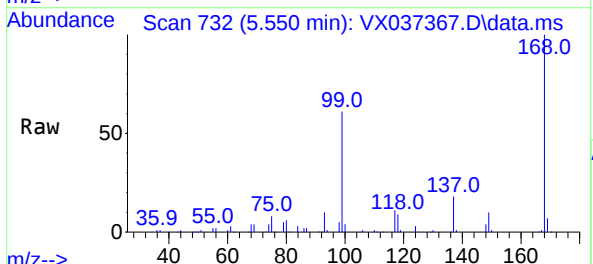


Tgt Ion:113 Resp: 75856

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 103.2 | 82.9  | 124.3 |
| 192 | 19.0  | 13.3  | 19.9  |

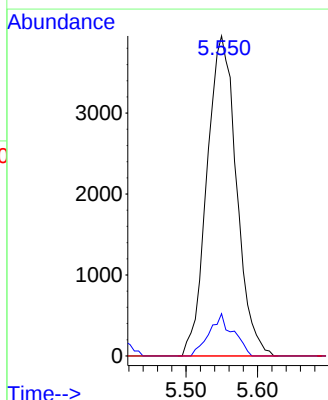
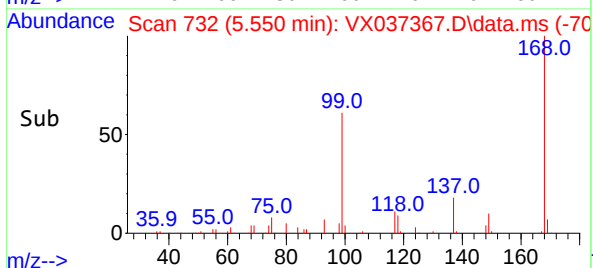


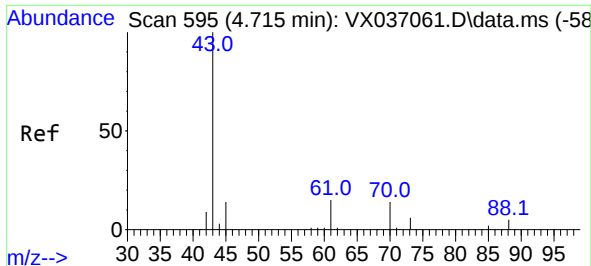
#36  
1,1-Dichloropropene  
Concen: 4.832 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.147 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58



Tgt Ion: 75 Resp: 11320

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 10.7  | 17.0  | 50.9# |
| 77  | 0.0   | 24.7  | 37.1# |





#37

Ethyl Acetate

Concen: 0.735 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.018 min

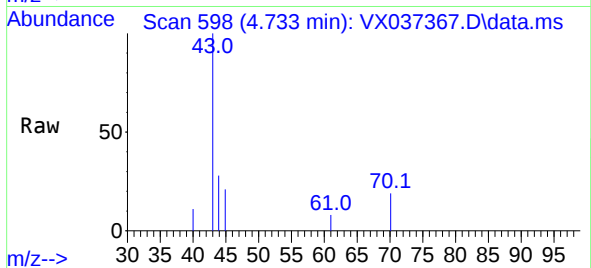
Lab File: VX037367.D

Acq: 30 Aug 2023 03:58

Instrument :

MSVOA\_X

ClientSampleId :



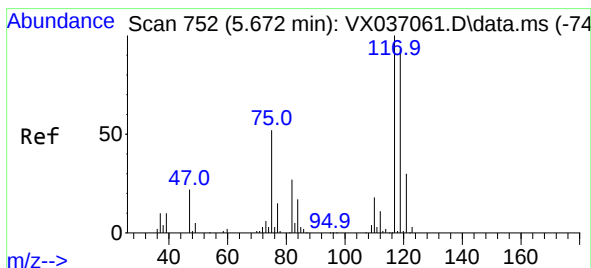
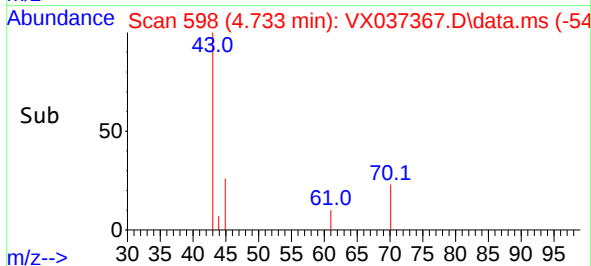
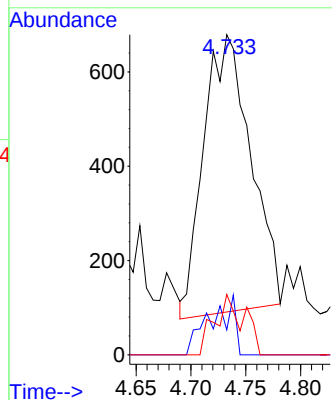
Tgt Ion: 43 Resp: 1759

Ion Ratio Lower Upper

43 100

61 5.9 10.6 16.0#

70 13.4 8.3 12.5#



#38

Carbon Tetrachloride

Concen: 6.215 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.122 min

Lab File: VX037367.D

Acq: 30 Aug 2023 03:58

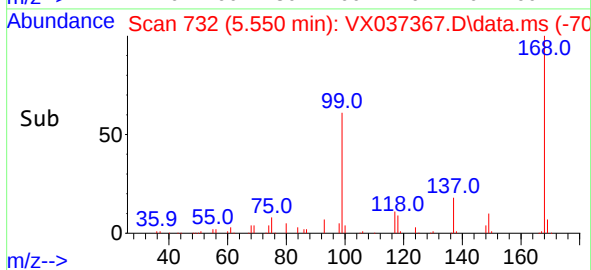
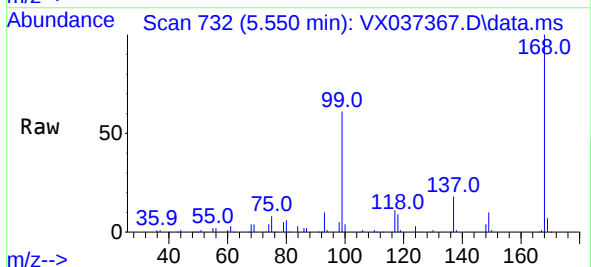
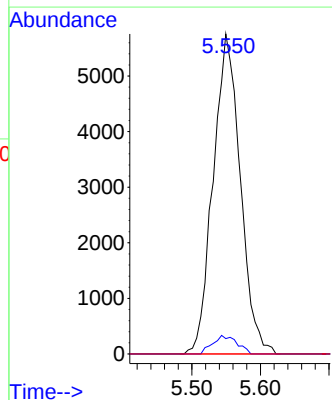
Tgt Ion: 117 Resp: 15815

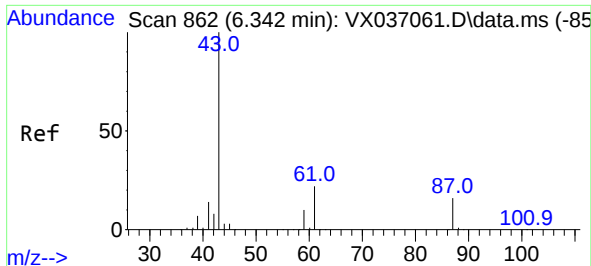
Ion Ratio Lower Upper

117 100

119 4.8 78.2 117.2#

121 0.0 24.4 36.6#

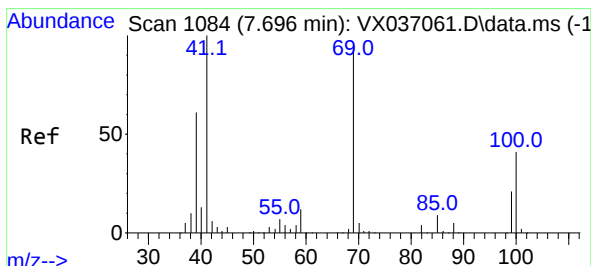
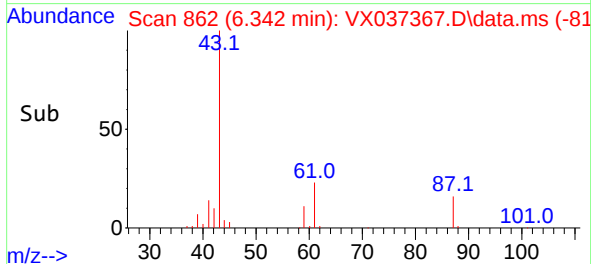
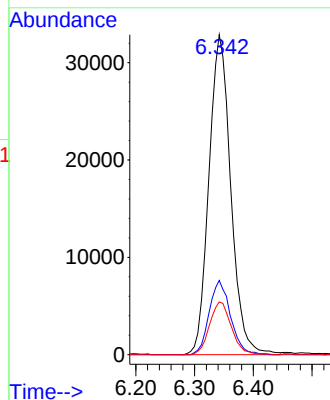
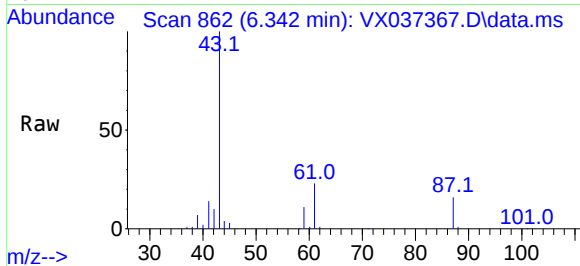




#43  
Isopropyl Acetate  
Concen: 22.404 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. -0.000 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

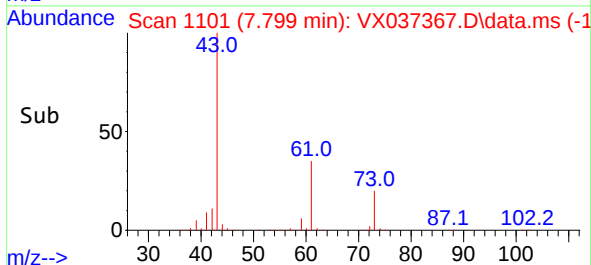
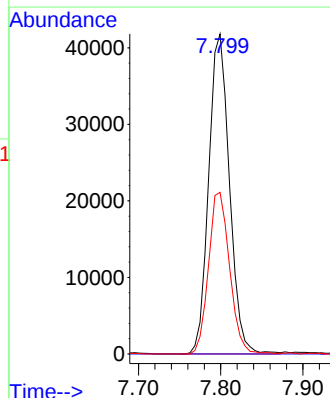
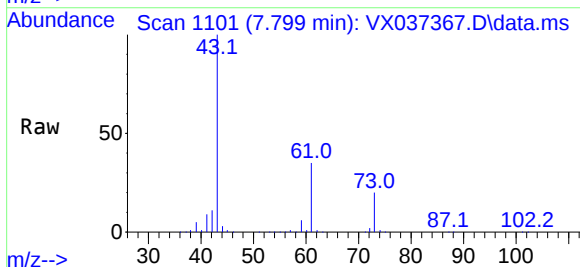
Instrument :  
MSVOA\_X  
ClientSampleId :

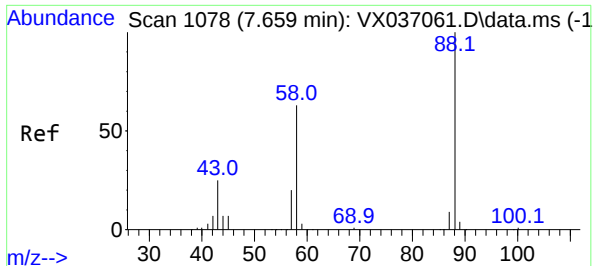
Tgt Ion: 43 Resp: 85111  
Ion Ratio Lower Upper  
43 100  
61 22.6 15.2 22.8  
87 16.5 9.8 14.6#



#48  
Methyl methacrylate  
Concen: 39.592 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.103 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Tgt Ion: 41 Resp: 73352  
Ion Ratio Lower Upper  
41 100  
69 0.0 59.2 88.8#  
39 51.3 47.7 71.5





#49

1,4-Dioxane

Concen: 3.387 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.134 min

Lab File: VX037367.D

Acq: 30 Aug 2023 03:58

Instrument :

MSVOA\_X

ClientSampleId :

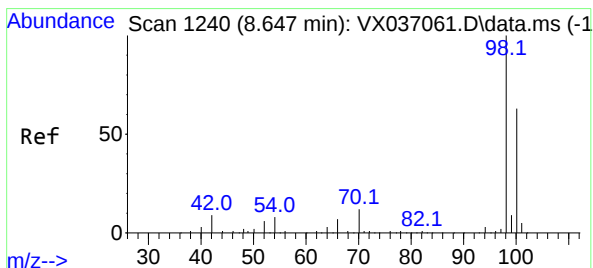
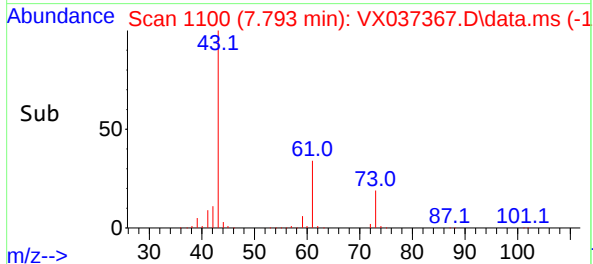
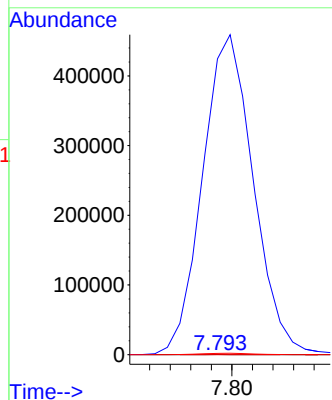
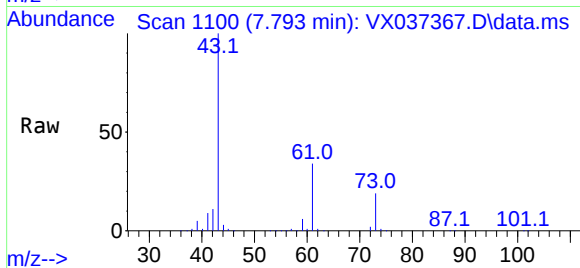
Tgt Ion: 88 Resp: 169

Ion Ratio Lower Upper

88 100

43 469517.2 0.0 0.0#

58 2151.5 60.1 90.1#



#50

Toluene-d8

Concen: 49.712 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX037367.D

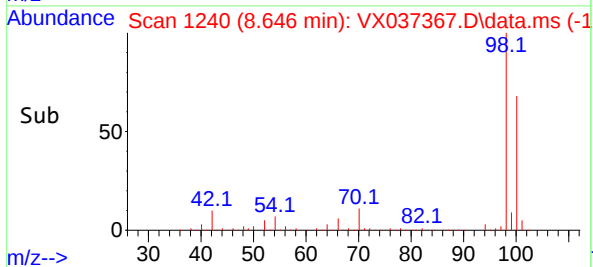
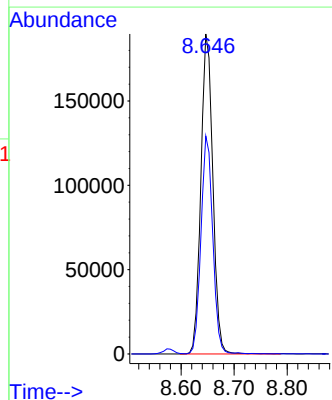
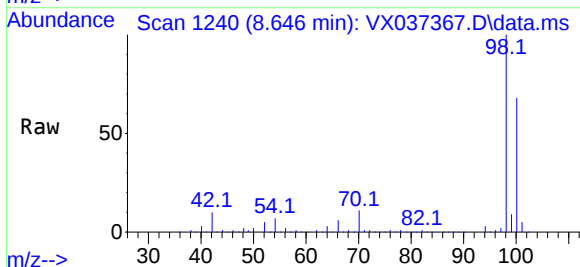
Acq: 30 Aug 2023 03:58

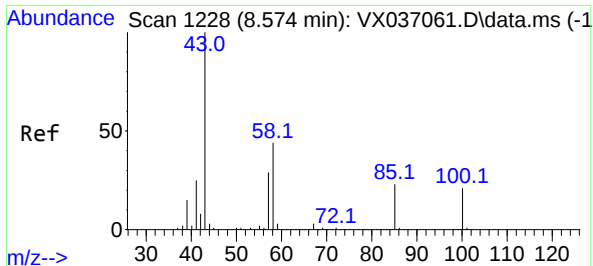
Tgt Ion: 98 Resp: 297320

Ion Ratio Lower Upper

98 100

100 67.2 53.1 79.7

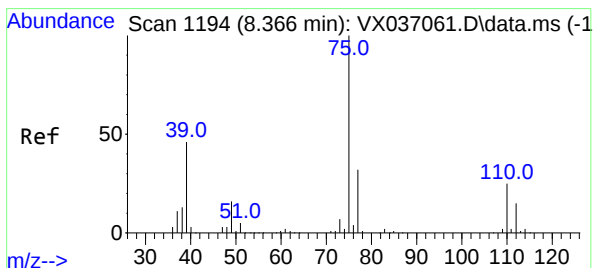
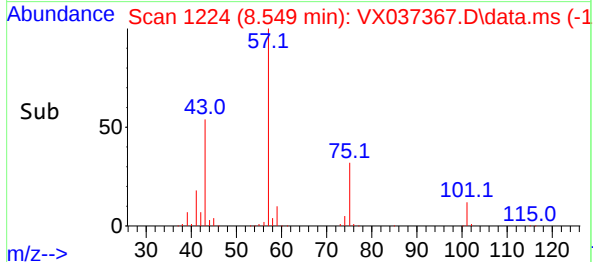
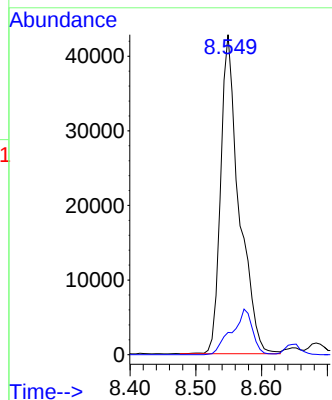
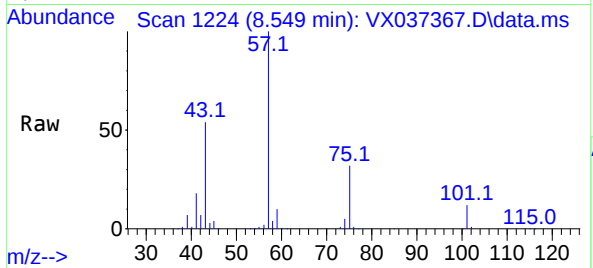




#51  
4-Methyl-2-Pentanone  
Concen: 36.328 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.025 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

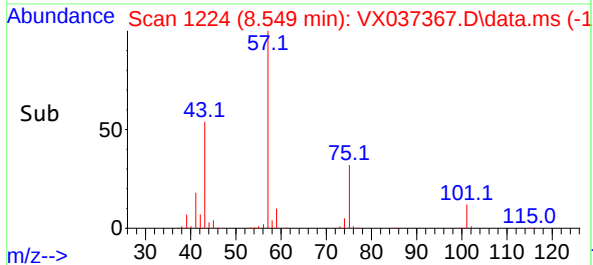
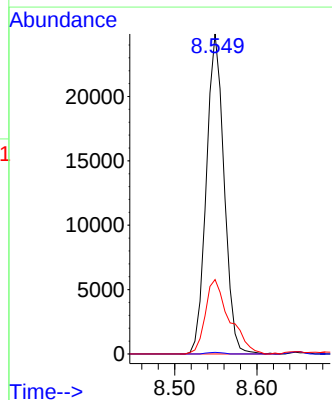
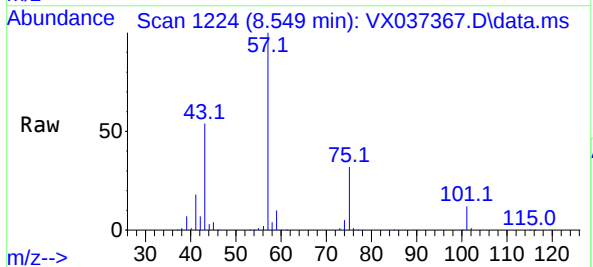
Instrument :  
MSVOA\_X  
ClientSampleId :

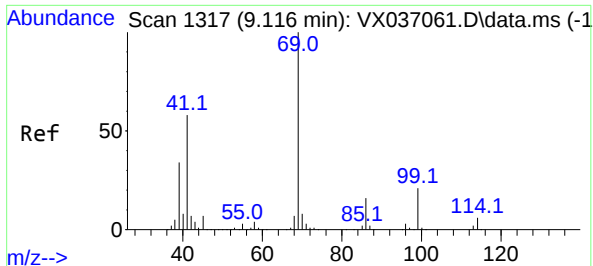
Tgt Ion: 43 Resp: 83802  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#



#54  
cis-1,3-Dichloropropene  
Concen: 12.971 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.183 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Tgt Ion: 75 Resp: 37305  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.3 37.9#  
39 23.3 46.7 70.1#





#56

Ethyl methacrylate

Concen: 0.238 ug/l

RT: 9.250 min Scan# 11

Delta R.T. 0.134 min

Lab File: VX037367.D

Acq: 30 Aug 2023 03:58

Instrument :

MSVOA\_X

ClientSampleId :

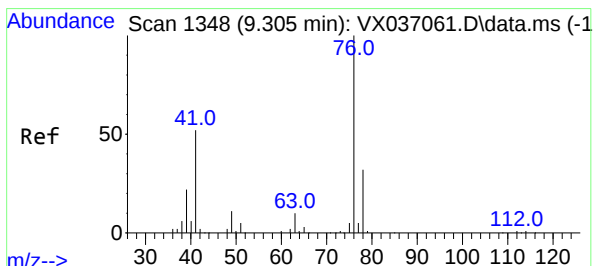
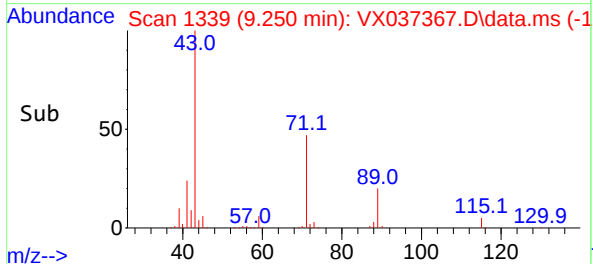
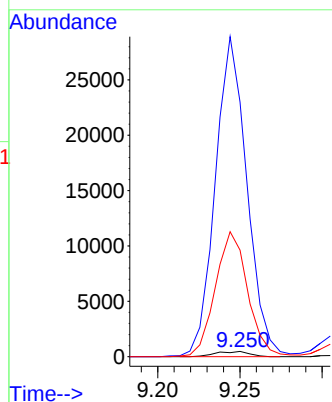
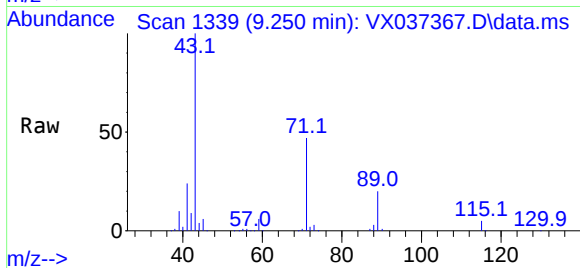
Tgt Ion: 69 Resp: 675

Ion Ratio Lower Upper

69 100

41 5737.5 56.8 85.2#

39 2297.9 32.0 48.0#



#57

1,3-Dichloropropane

Concen: 1.543 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX037367.D

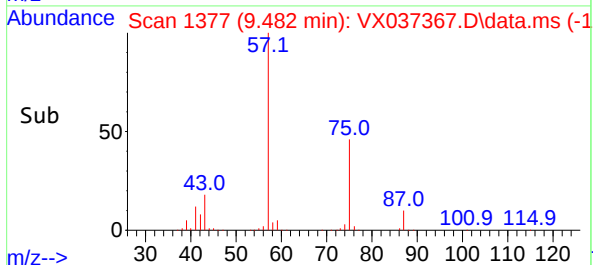
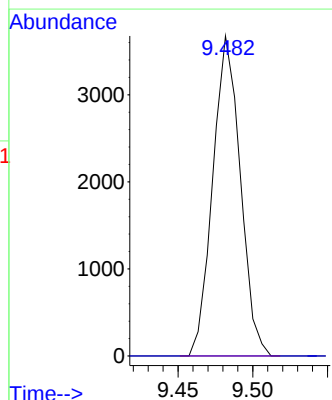
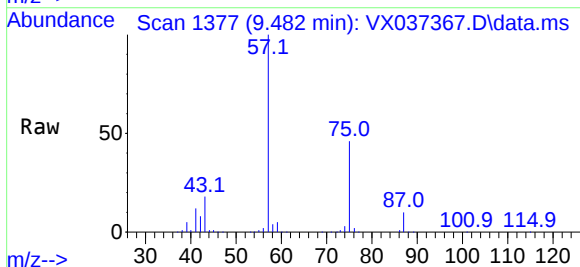
Acq: 30 Aug 2023 03:58

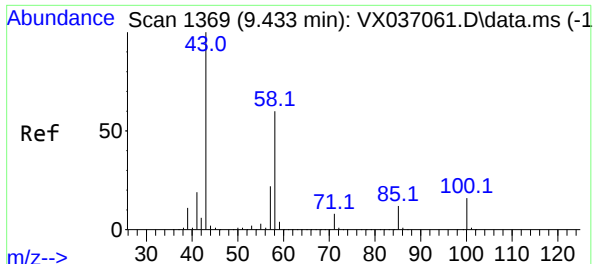
Tgt Ion: 76 Resp: 4702

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 31.128 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.049 min

Lab File: VX037367.D

Acq: 30 Aug 2023 03:58

Instrument :

MSVOA\_X

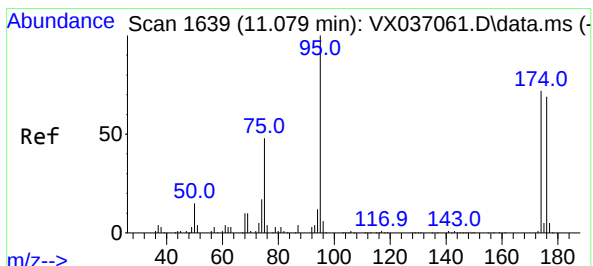
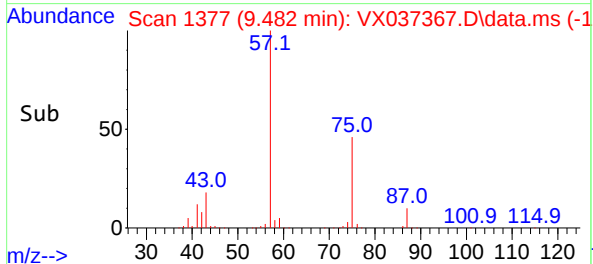
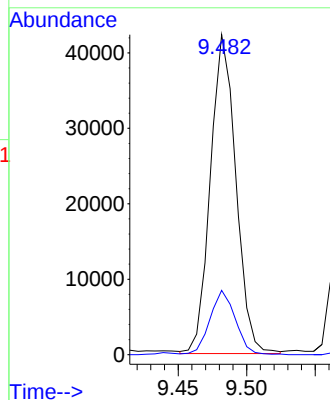
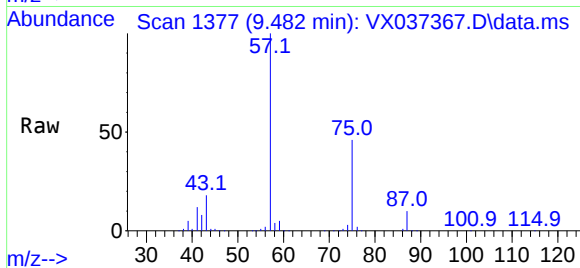
ClientSampleId :

Tgt Ion: 43 Resp: 54751

Ion Ratio Lower Upper

43 100

58 20.1 26.2 78.5#



#62

4-Bromofluorobenzene

Concen: 47.774 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX037367.D

Acq: 30 Aug 2023 03:58

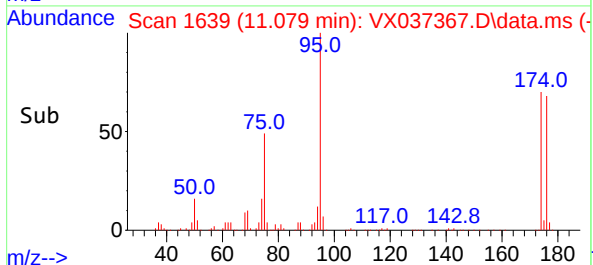
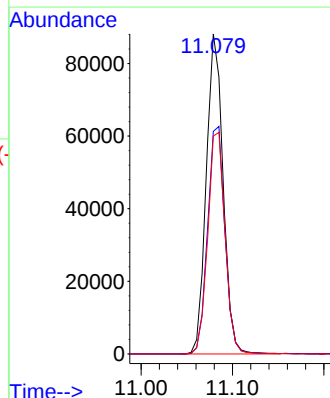
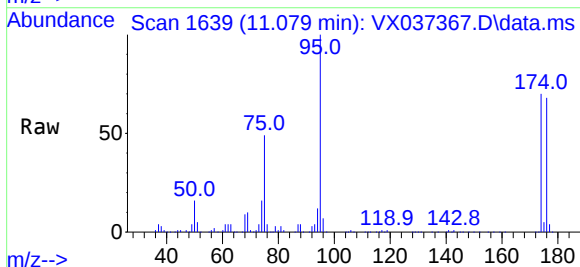
Tgt Ion: 95 Resp: 112286

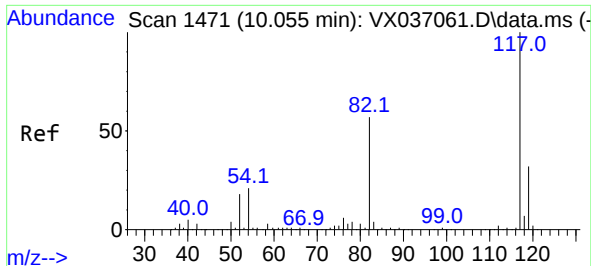
Ion Ratio Lower Upper

95 100

174 73.7 0.0 135.6

176 71.2 0.0 131.0

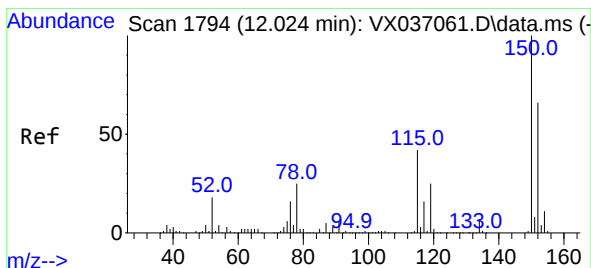
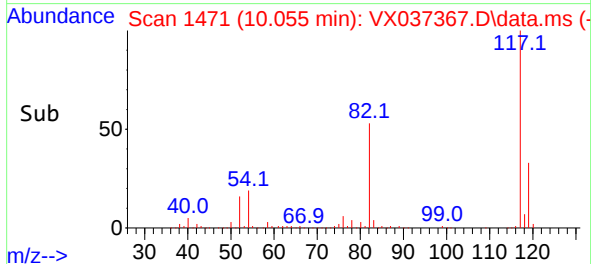
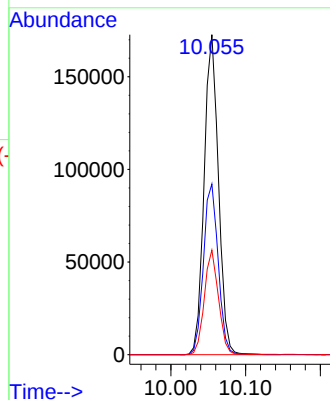
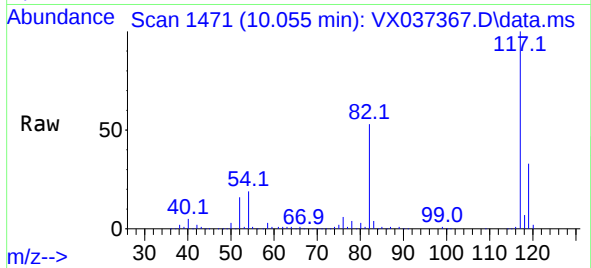




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

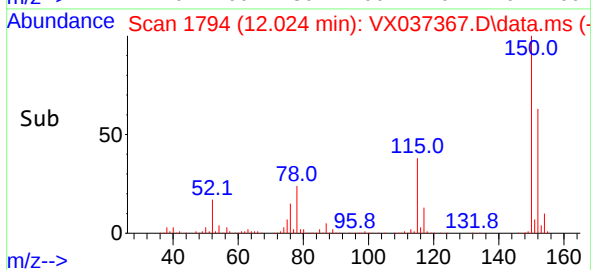
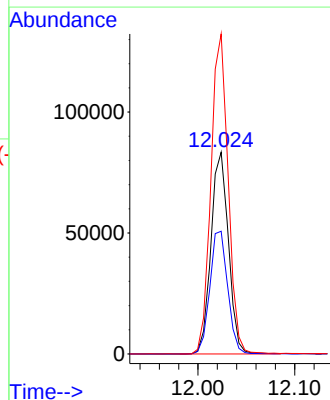
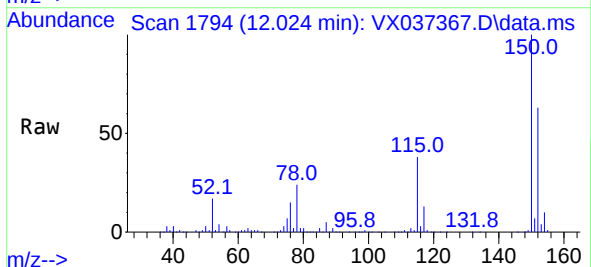
Instrument :  
MSVOA\_X  
ClientSampleId :

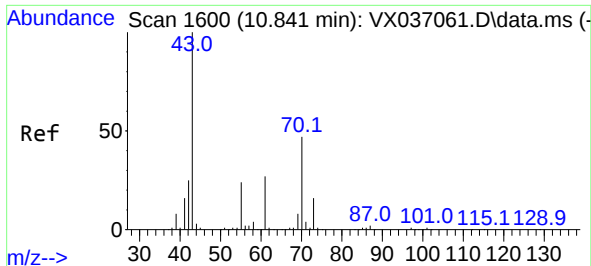
Tgt Ion:117 Resp: 229995  
Ion Ratio Lower Upper  
117 100  
82 53.4 46.2 69.4  
119 32.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

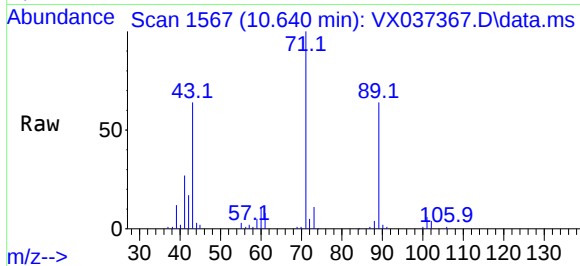
Tgt Ion:152 Resp: 104907  
Ion Ratio Lower Upper  
152 100  
115 62.3 43.3 129.9  
150 156.7 0.0 345.0



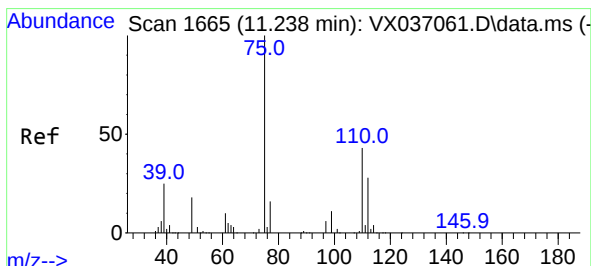
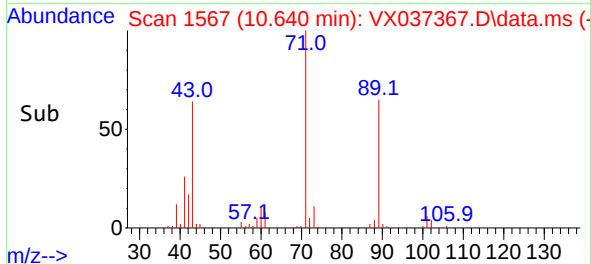
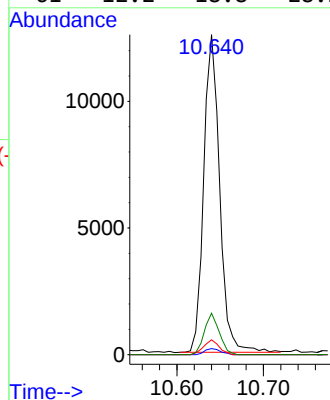


#74  
N-amy1 acetate  
Concen: 5.404 ug/l  
RT: 10.640 min Scan# 1601  
Delta R.T. -0.201 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Instrument :  
MSVOA\_X  
ClientSampleId :

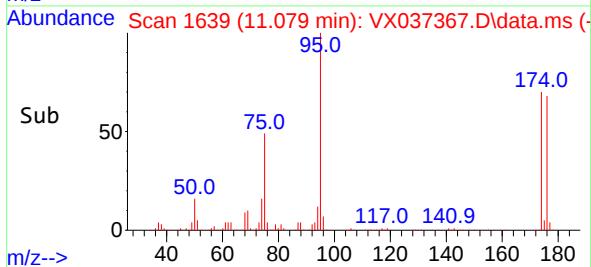
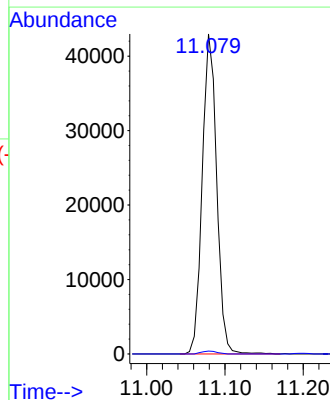
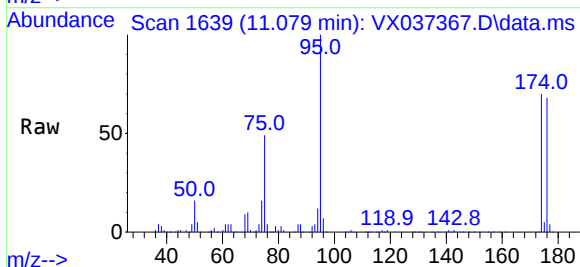


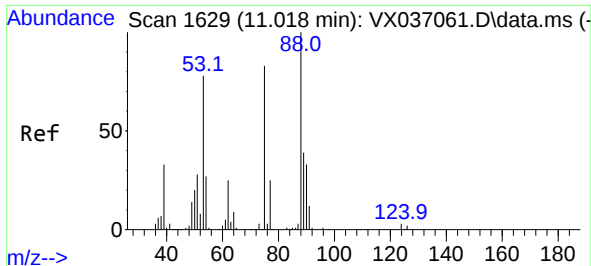
Tgt Ion: 43 Resp: 16010  
Ion Ratio Lower Upper  
43 100  
70 1.9 32.9 49.3#  
55 4.5 19.3 28.9#  
61 12.2 18.8 28.2#



#76  
1,2,3-Trichloropropane  
Concen: 24.631 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

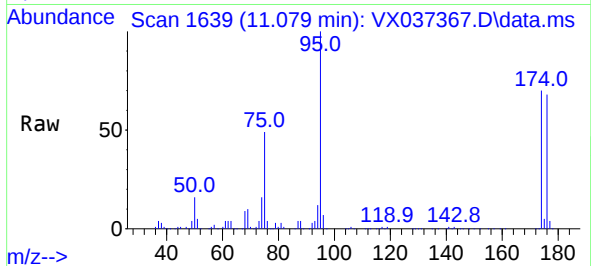
Tgt Ion: 75 Resp: 55031  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.797 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX037367.D  
Acq: 30 Aug 2023 03:58

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 55031  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

