

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011224\  
 Data File : VX039737.D  
 Acq On : 12 Jan 2024 15:14  
 Operator : JC/MD  
 Sample : PB158389TB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jan 12 22:39:29 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 03:51:26 2024  
 Response via : Initial Calibration

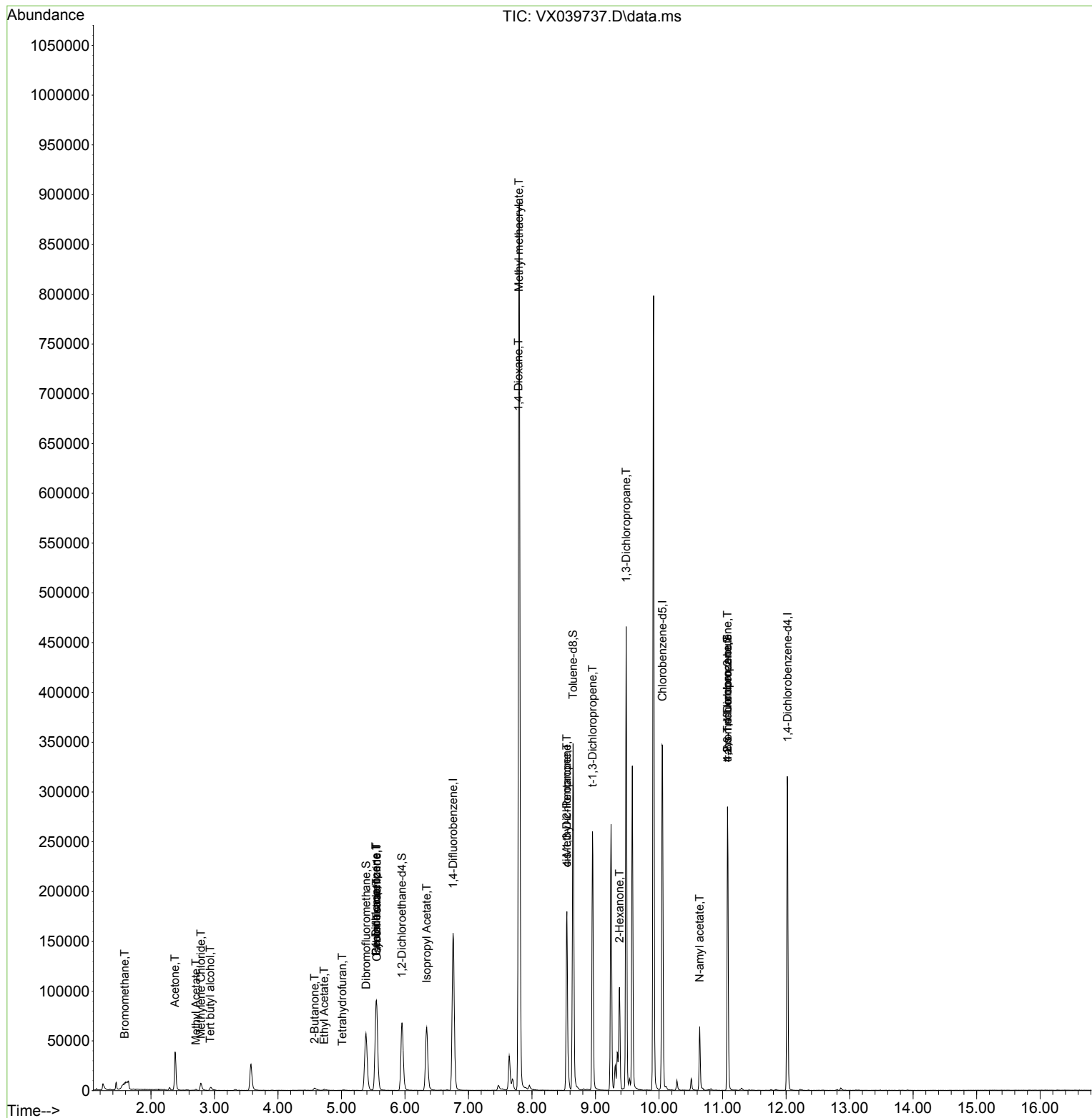
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 83803      | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 158606     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 155325     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 62546      | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 63825      | 45.465    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 90.940%   |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 50455      | 47.230    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 94.460%   |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 198423     | 49.248    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 98.500%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 76609      | 48.623    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 97.240%   |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 5) Bromomethane               | 1.587          | 94   | 233        | 0.349     | ug/l # | 49       |
| 11) Tert butyl alcohol        | 2.934          | 59   | 2431       | 6.652     | ug/l # | 78       |
| 13) Acrolein                  | 2.239          | 56   | 49         | Below Cal | #      | 58       |
| 16) Acetone                   | 2.380          | 43   | 41147      | 52.118    | ug/l   | 93       |
| 18) Methyl Acetate            | 2.709          | 43   | 1570       | 0.951     | ug/l # | 90       |
| 20) Methylene Chloride        | 2.788          | 84   | 3980       | 3.333     | ug/l   | 90       |
| 25) 2-Butanone                | 4.574          | 43   | 5075       | 4.473     | ug/l   | 96       |
| 29) Tetrahydrofuran           | 5.013          | 42   | 151        | 0.207     | ug/l # | 34       |
| 31) Cyclohexane               | 5.550          | 56   | 2156       | 1.164     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 7140       | 4.294     | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.727          | 43   | 1893       | 0.853     | ug/l # | 88       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 9383       | 6.161     | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 89967      | 27.647    | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.793          | 41   | 80431      | 50.283    | ug/l # | 48       |
| 49) 1,4-Dioxane               | 7.787          | 88   | 45         | 1.454     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 66927      | 29.862    | ug/l # | 48       |
| 53) t-1,3-Dichloropropene     | 8.952          | 75   | 579        | 0.338     | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 27785      | 14.738    | ug/l # | 60       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 3796       | 1.871     | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378          | 43   | 81084      | 45.712    | ug/l # | 26       |
| 74) N-amyl acetate            | 10.640         | 43   | 16872      | 6.500     | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 40816      | 25.171    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 40816      | 71.932    | ug/l # | 5        |
| -----                         |                |      |            |           |        |          |

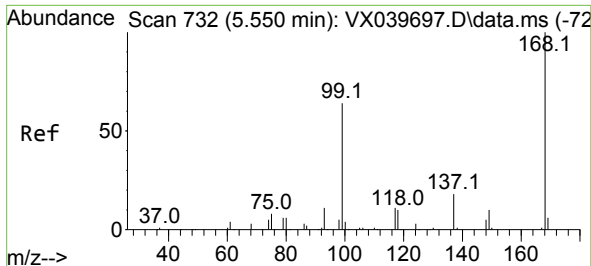
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
ClientSampleId :

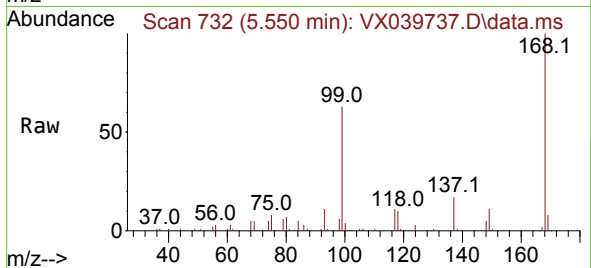
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 11 03:51:26 2024  
Response via : Initial Calibration



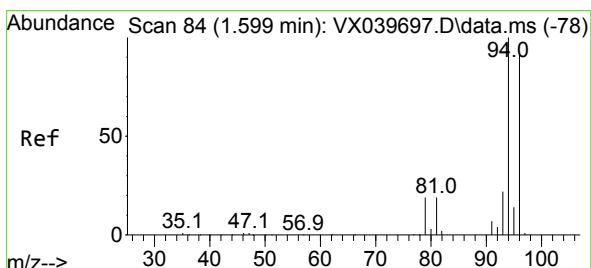
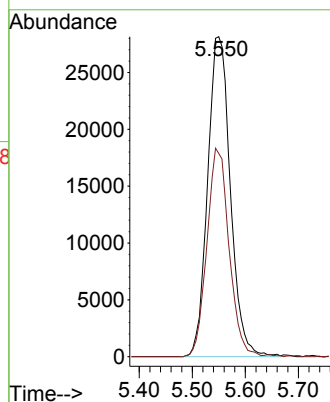
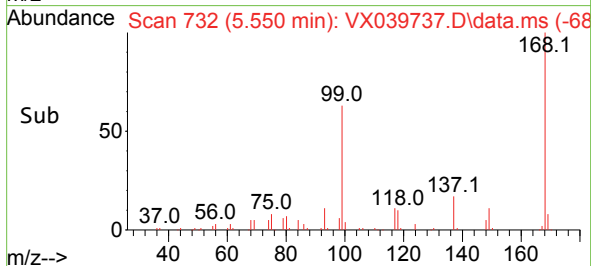


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

Instrument :  
MSVOA\_X  
ClientSampleId :

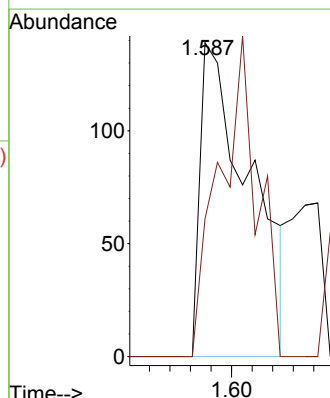
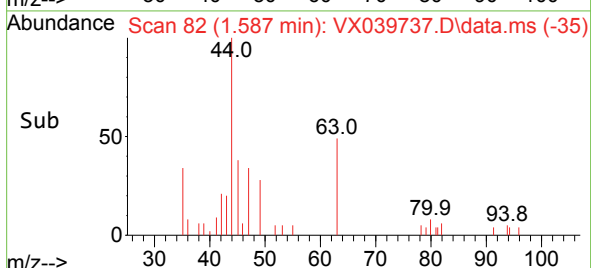
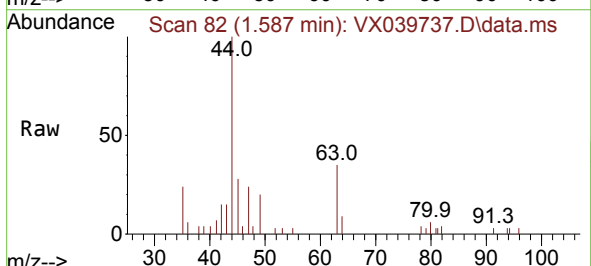


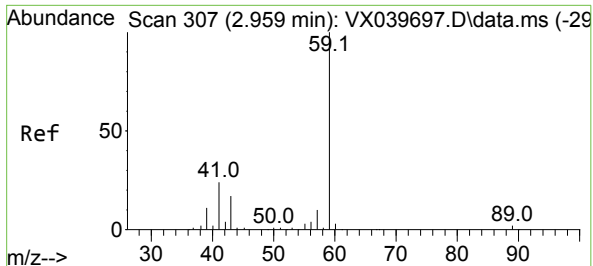
Tgt Ion:168 Resp: 83803  
Ion Ratio Lower Upper  
168 100  
99 63.5 56.6 85.0



#5  
Bromomethane  
Concen: 0.349 ug/l  
RT: 1.587 min Scan# 82  
Delta R.T. -0.012 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

Tgt Ion: 94 Resp: 233  
Ion Ratio Lower Upper  
94 100  
96 43.9 74.6 111.8#





#11

Tert butyl alcohol

Concen: 6.652 ug/l

RT: 2.934 min Scan# 307

Delta R.T. -0.024 min

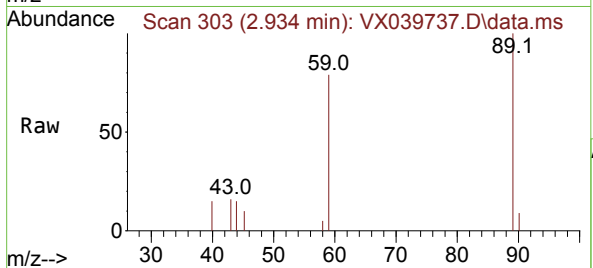
Lab File: VX039737.D

Acq: 12 Jan 2024 15:14

Instrument :

MSVOA\_X

ClientSampleId :

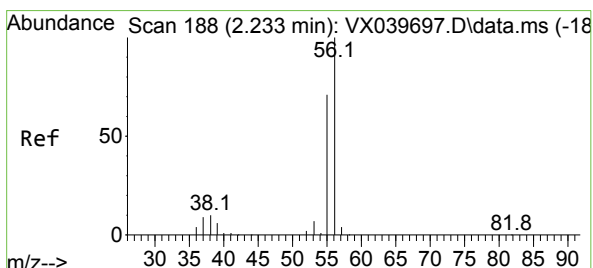
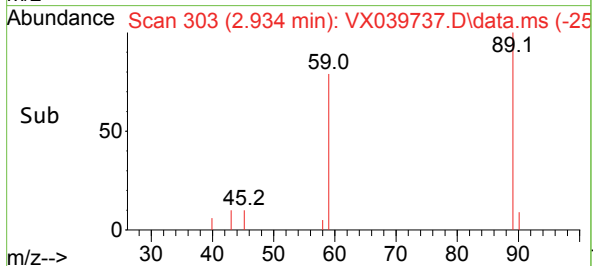
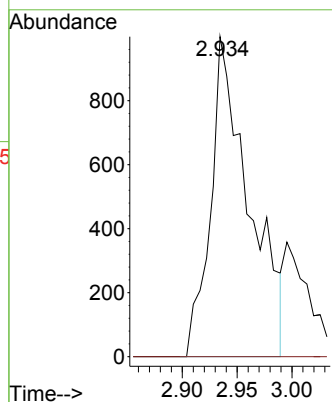


Tgt Ion: 59 Resp: 2431

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: Below Cal

RT: 2.239 min Scan# 189

Delta R.T. 0.006 min

Lab File: VX039737.D

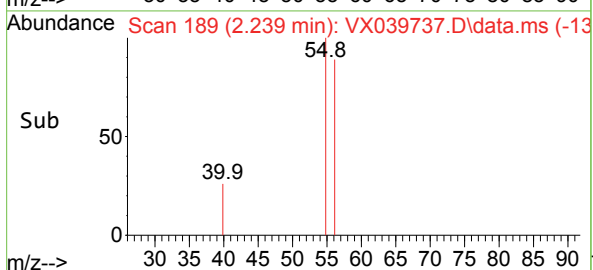
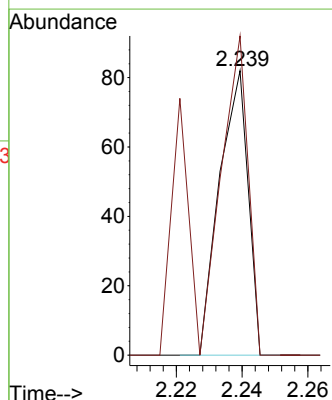
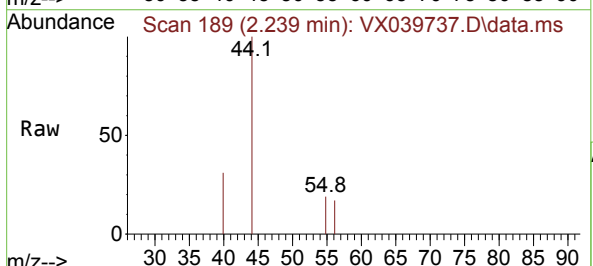
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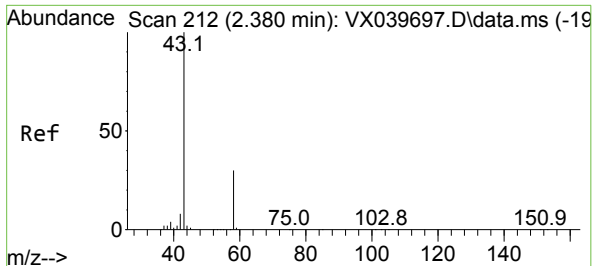
Tgt Ion: 56 Resp: 49

Ion Ratio Lower Upper

56 100

55 106.1 57.1 85.7#

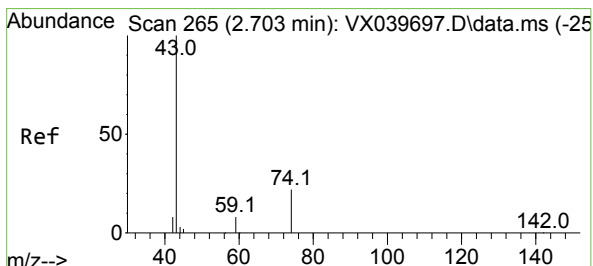
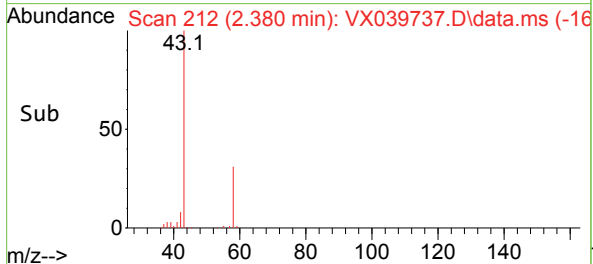
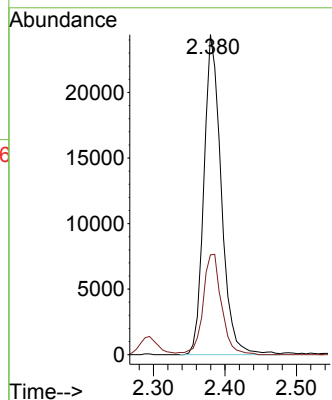
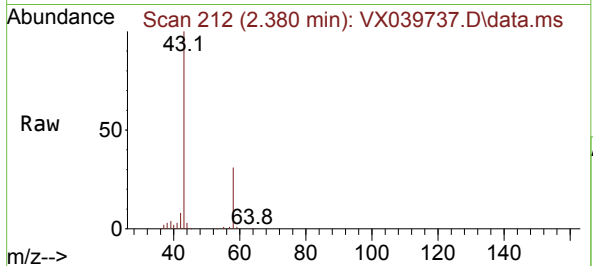




#16  
Acetone  
Concen: 52.118 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

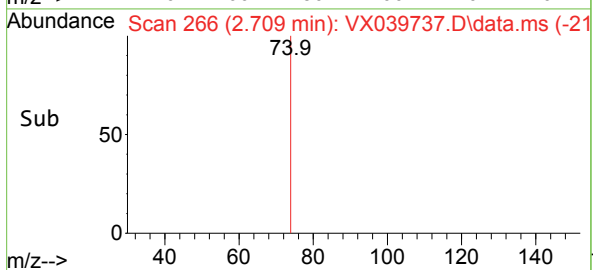
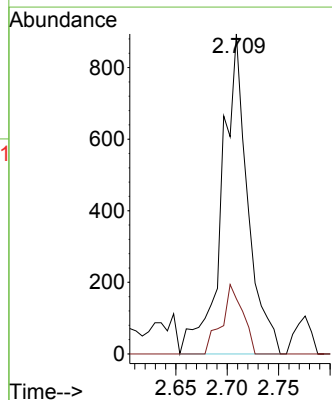
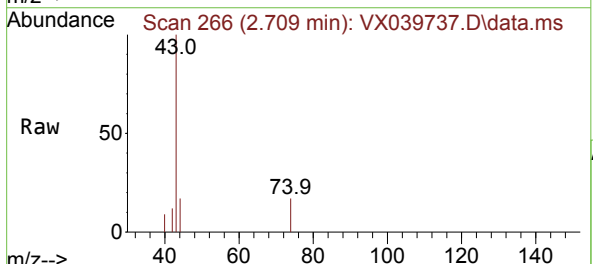
Instrument :  
MSVOA\_X  
ClientSampleId :

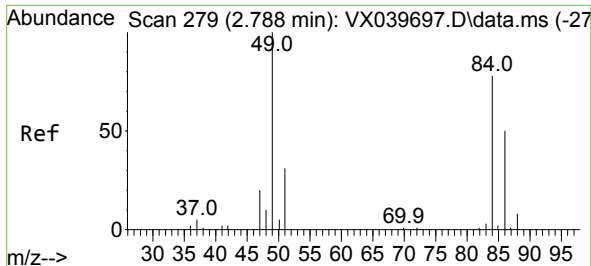
Tgt Ion: 43 Resp: 41147  
Ion Ratio Lower Upper  
43 100  
58 31.2 21.9 32.9



#18  
Methyl Acetate  
Concen: 0.951 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

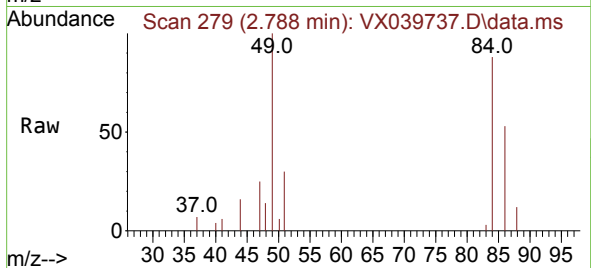
Tgt Ion: 43 Resp: 1570  
Ion Ratio Lower Upper  
43 100  
74 17.6 17.8 26.8#



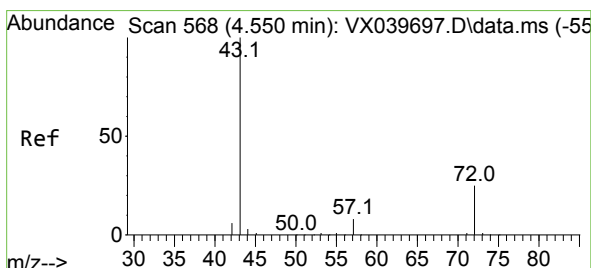
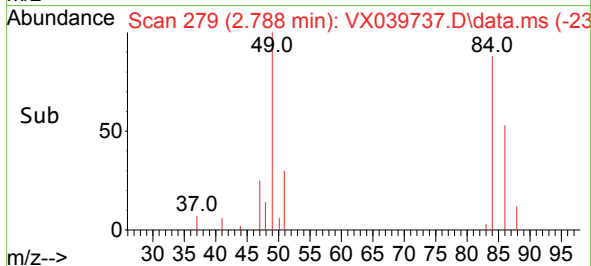
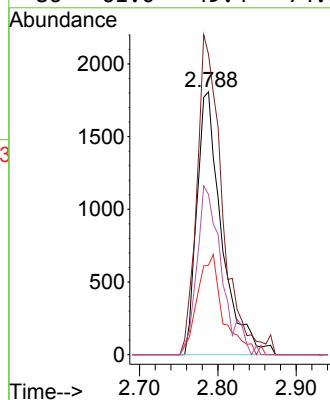


#20  
Methylene Chloride  
Concen: 3.333 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

Instrument :  
MSVOA\_X  
ClientSampleId :

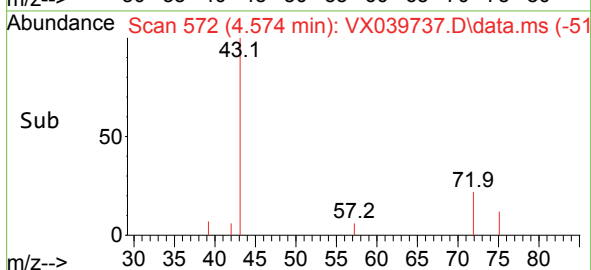
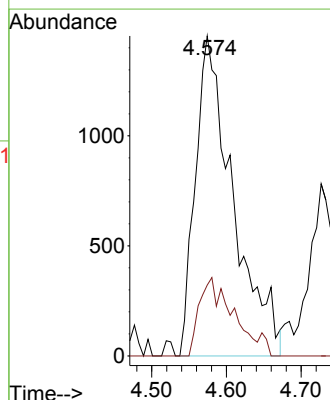
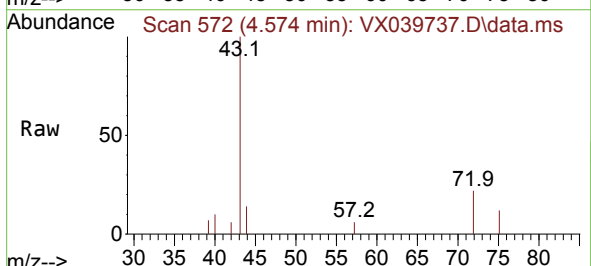


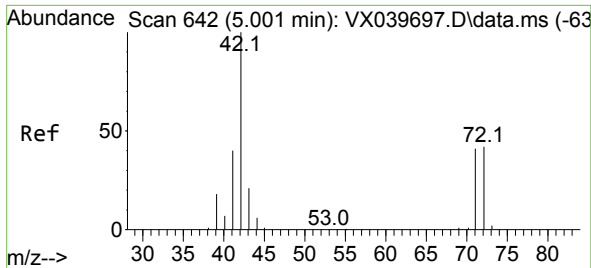
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3980  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 114.3 | 103.6 | 155.4 |
| 51       | 34.0  | 33.8  | 50.6  |
| 86       | 61.0  | 49.4  | 74.0  |



#25  
2-Butanone  
Concen: 4.473 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.024 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 5075  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 22.1  | 19.4  | 29.2  |

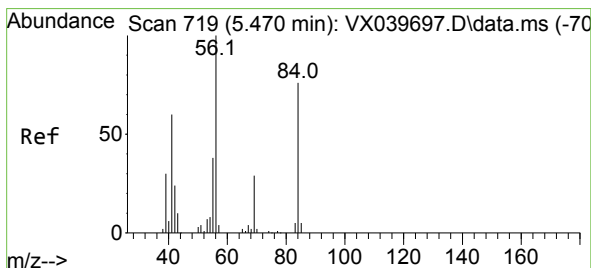
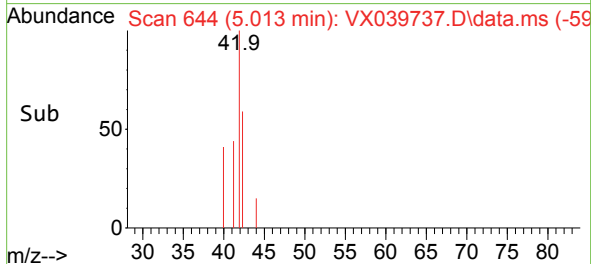
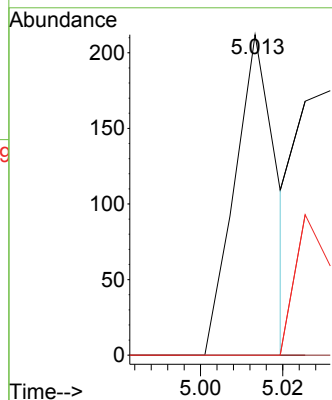
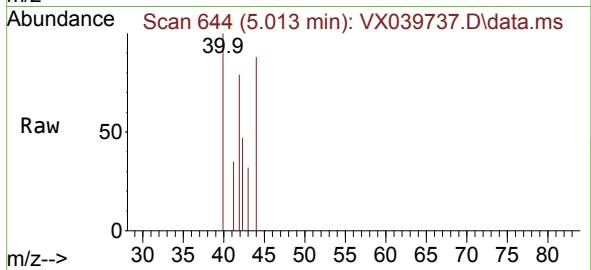




#29  
Tetrahydrofuran  
Concen: 0.207 ug/l  
RT: 5.013 min Scan# 64  
Delta R.T. 0.012 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

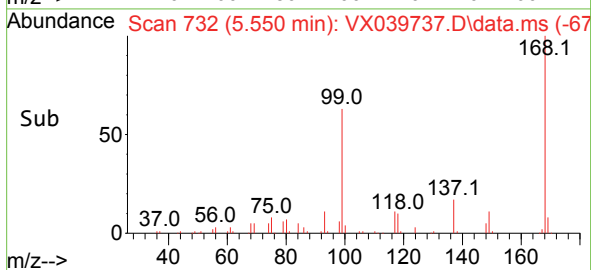
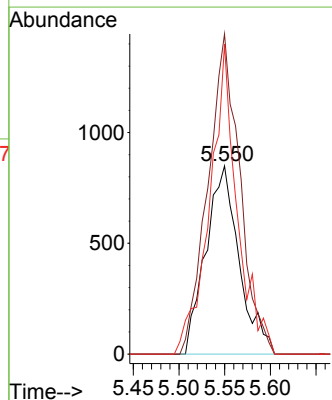
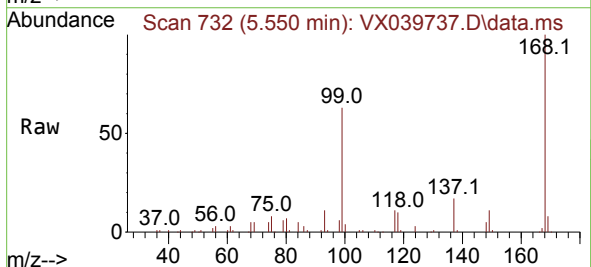
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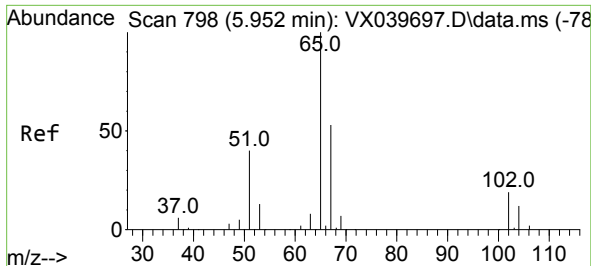
Tgt Ion: 42 Resp: 151  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.4#  
71 0.0 32.2 48.2#



#31  
Cyclohexane  
Concen: 1.164 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.079 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

Tgt Ion: 56 Resp: 2156  
Ion Ratio Lower Upper  
56 100  
69 170.2 23.4 35.2#  
84 164.7 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 45.465 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX039737.D

Acq: 12 Jan 2024 15:14

Instrument :

MSVOA\_X

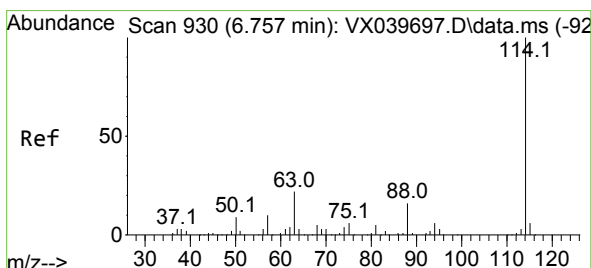
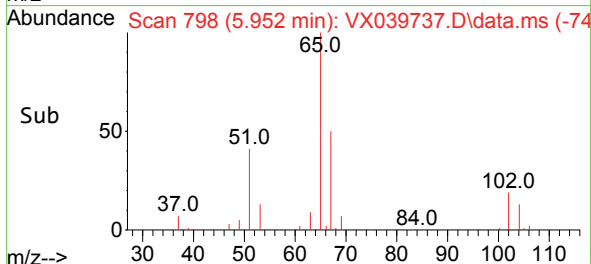
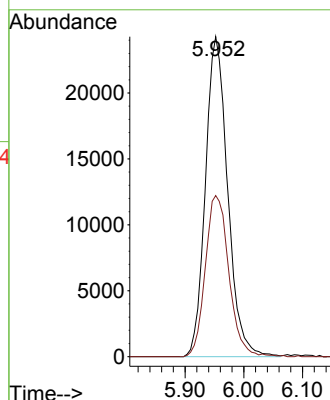
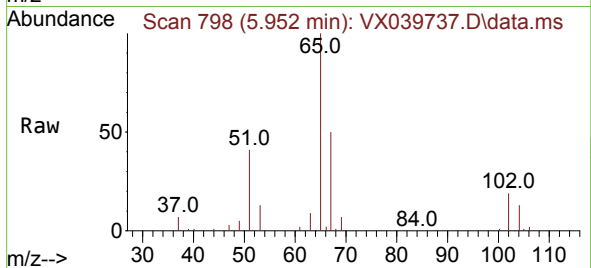
ClientSampleId :

Tgt Ion: 65 Resp: 63825

Ion Ratio Lower Upper

65 100

67 53.5 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX039737.D

Acq: 12 Jan 2024 15:14

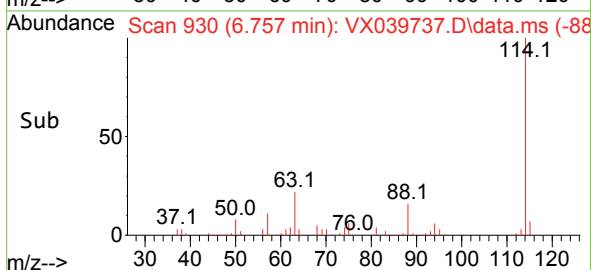
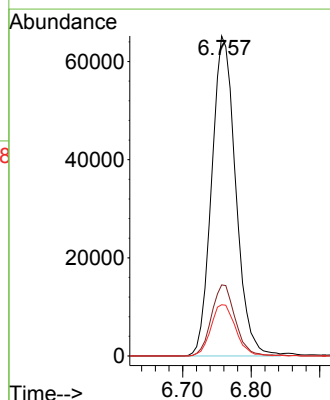
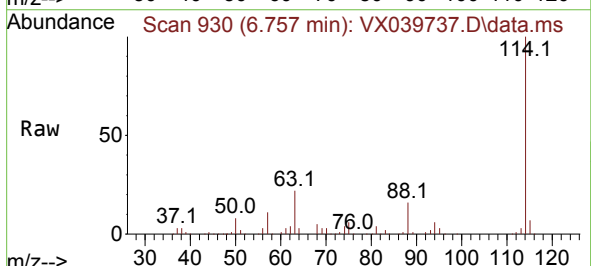
Tgt Ion: 114 Resp: 158606

Ion Ratio Lower Upper

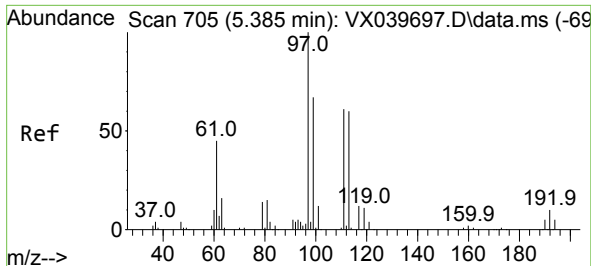
114 100

63 22.2 0.0 45.0

88 16.0 0.0 36.6

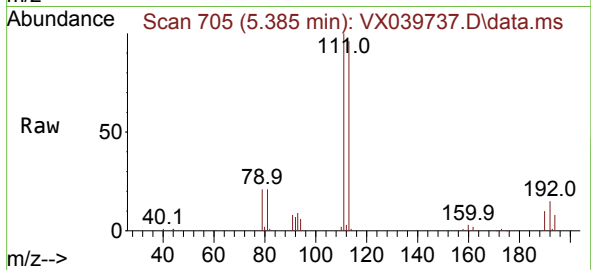




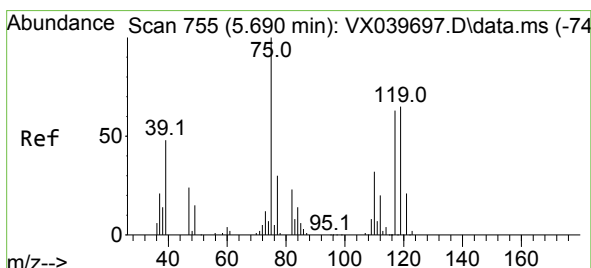
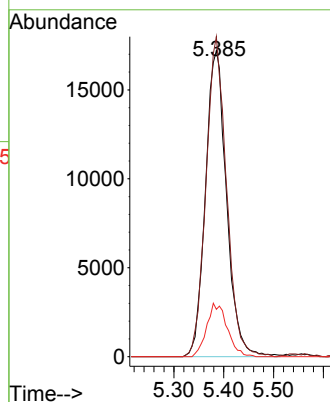
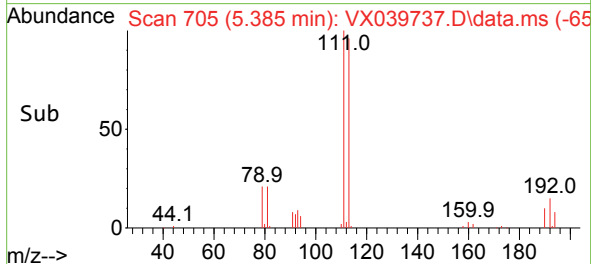


#35  
Dibromofluoromethane  
Concen: 47.230 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

Instrument :  
MSVOA\_X  
ClientSampleId :

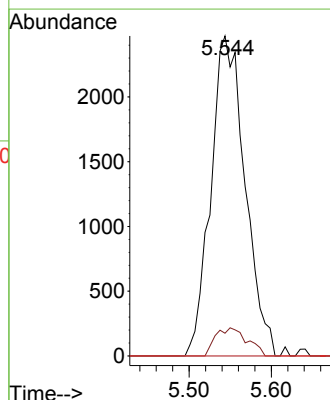
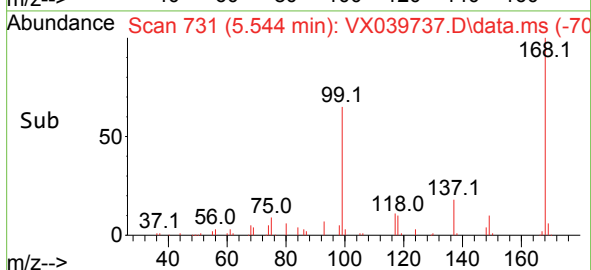
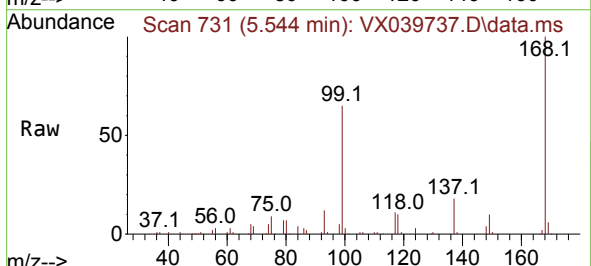


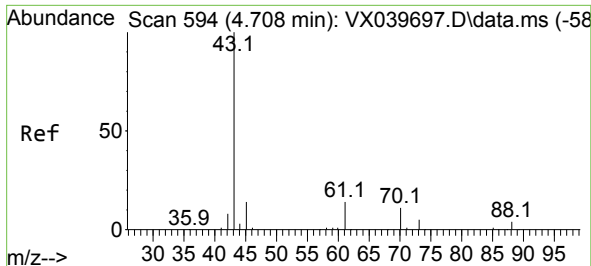
Tgt Ion:113 Resp: 50455  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.9 124.3  
192 17.0 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.294 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.146 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

Tgt Ion: 75 Resp: 7140  
Ion Ratio Lower Upper  
75 100  
110 8.1 17.0 50.9#  
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.853 ug/l

RT: 4.727 min Scan# 594

Delta R.T. 0.018 min

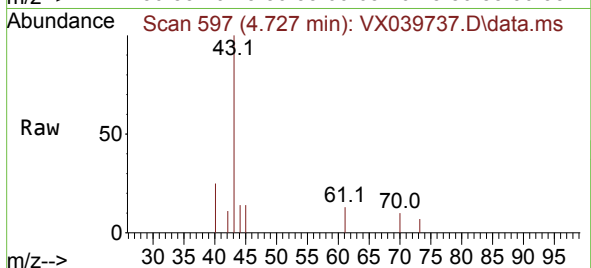
Lab File: VX039737.D

Acq: 12 Jan 2024 15:14

Instrument :

MSVOA\_X

ClientSampleId :



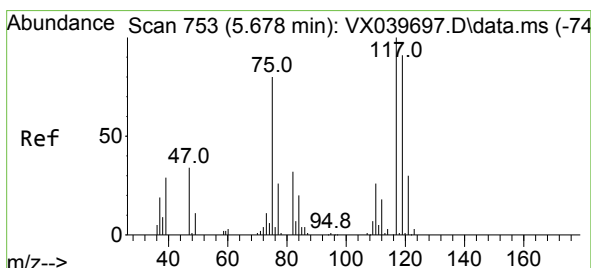
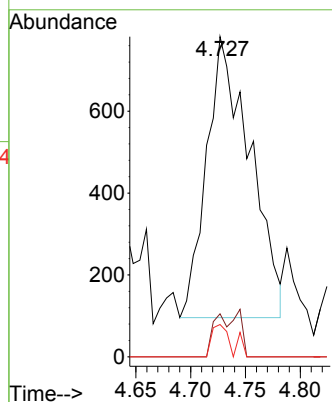
Tgt Ion: 43 Resp: 1893

Ion Ratio Lower Upper

43 100

61 9.1 10.6 16.0#

70 5.2 8.3 12.5#



#38

Carbon Tetrachloride

Concen: 6.161 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.122 min

Lab File: VX039737.D

Acq: 12 Jan 2024 15:14

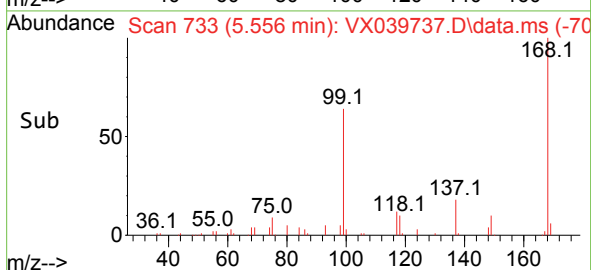
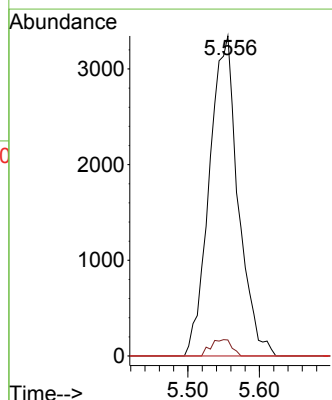
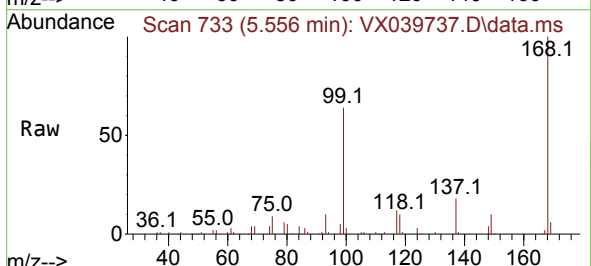
Tgt Ion: 117 Resp: 9383

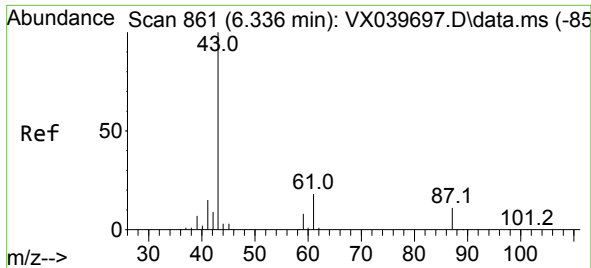
Ion Ratio Lower Upper

117 100

119 5.0 78.2 117.2#

121 0.0 24.4 36.6#

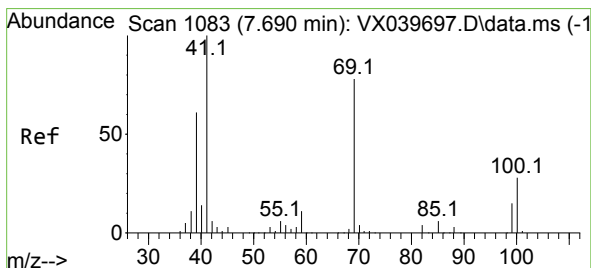
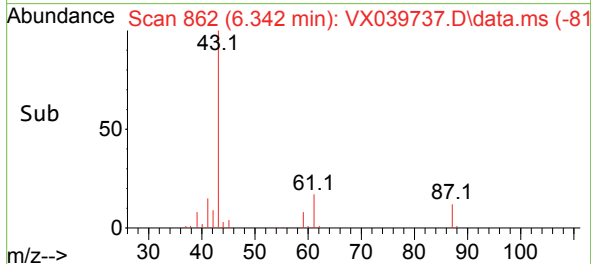
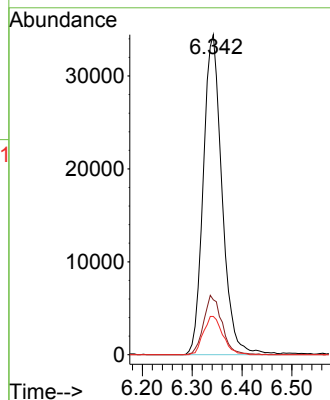
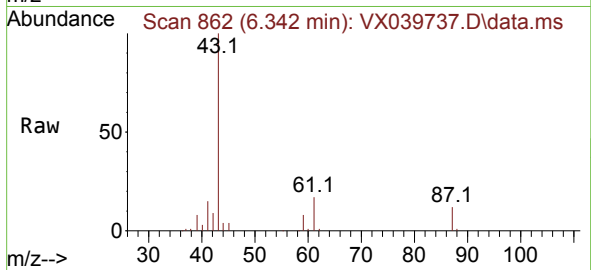




#43  
Isopropyl Acetate  
Concen: 27.647 ug/l  
RT: 6.342 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

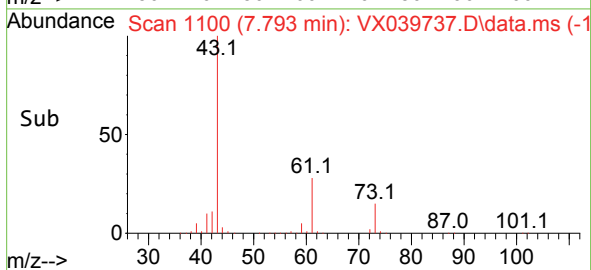
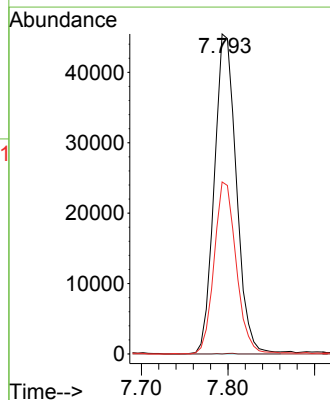
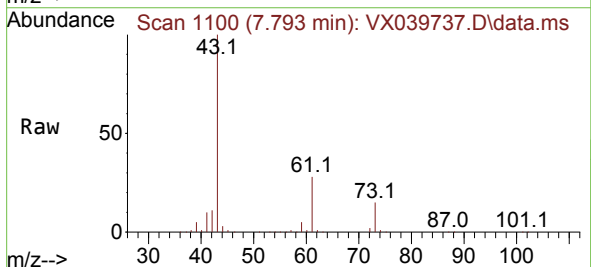
Instrument :  
MSVOA\_X  
ClientSampleId :

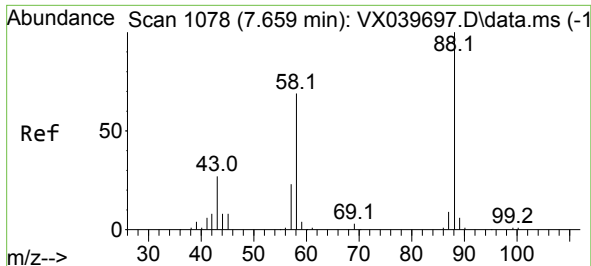
Tgt Ion: 43 Resp: 89967  
Ion Ratio Lower Upper  
43 100  
61 18.1 15.2 22.8  
87 12.3 9.8 14.6



#48  
Methyl methacrylate  
Concen: 50.283 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.104 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

Tgt Ion: 41 Resp: 80431  
Ion Ratio Lower Upper  
41 100  
69 0.1 59.2 88.8#  
39 54.1 47.7 71.5

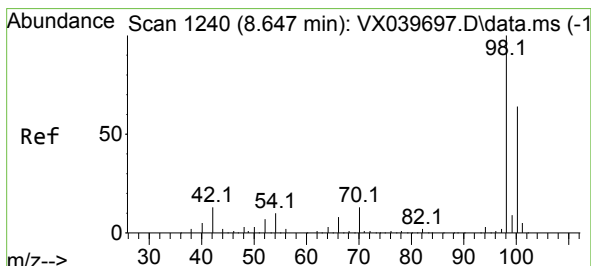
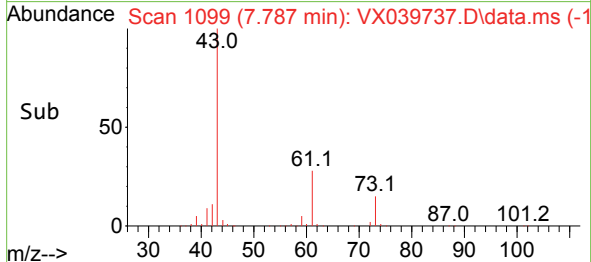
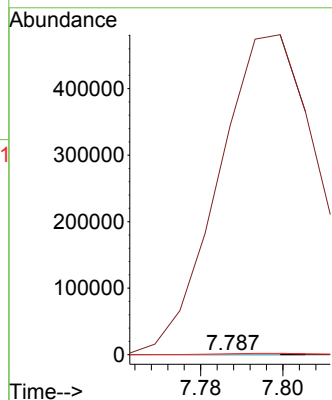
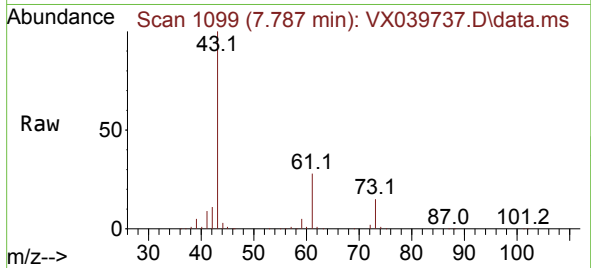




#49  
1,4-Dioxane  
Concen: 1.454 ug/l  
RT: 7.787 min Scan# 1099  
Delta R.T. 0.128 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

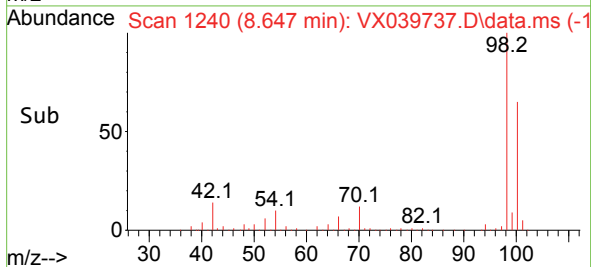
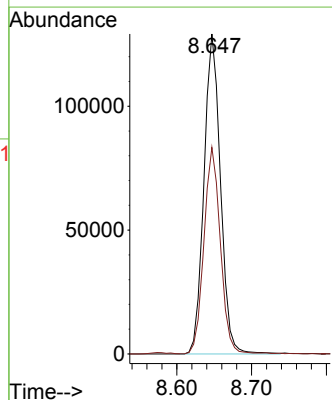
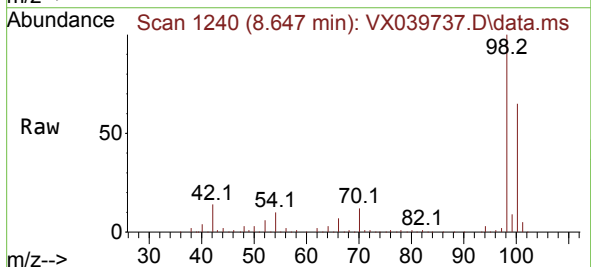
Instrument :  
MSVOA\_X  
ClientSampleId :

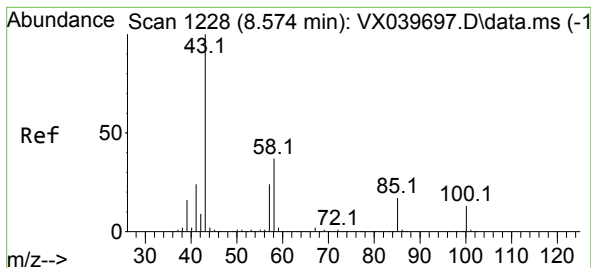
Tgt Ion: 88 Resp: 45  
Ion Ratio Lower Upper  
88 100  
43 1908168.9 0.0 0.0#  
58 8328.9 60.1 90.1#



#50  
Toluene-d8  
Concen: 49.248 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

Tgt Ion: 98 Resp: 198423  
Ion Ratio Lower Upper  
98 100  
100 64.0 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 29.862 ug/l

RT: 8.549 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX039737.D

Acq: 12 Jan 2024 15:14

Instrument :

MSVOA\_X

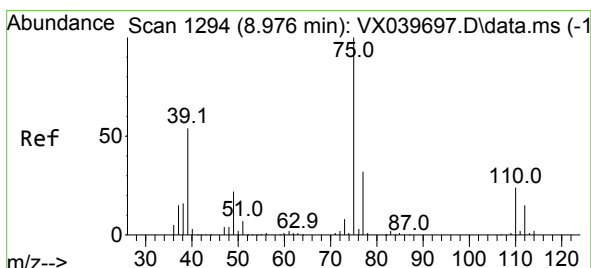
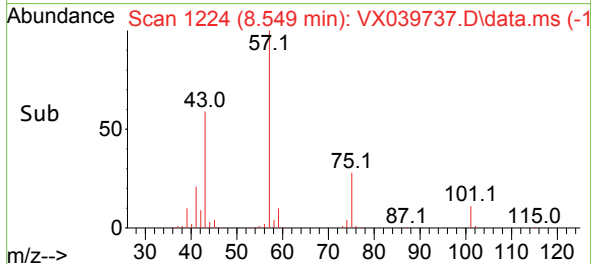
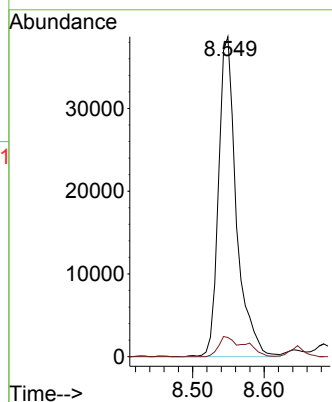
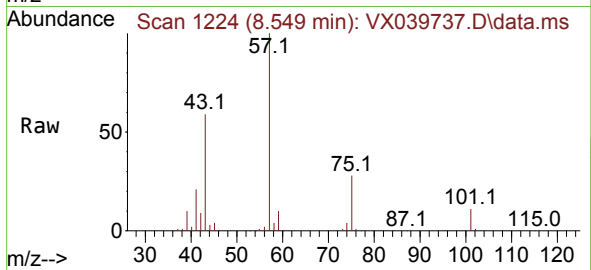
ClientSampleId :

Tgt Ion: 43 Resp: 66927

Ion Ratio Lower Upper

43 100

58 6.4 30.4 45.6#



#53

t-1,3-Dichloropropene

Concen: 0.338 ug/l

RT: 8.952 min Scan# 1290

Delta R.T. -0.024 min

Lab File: VX039737.D

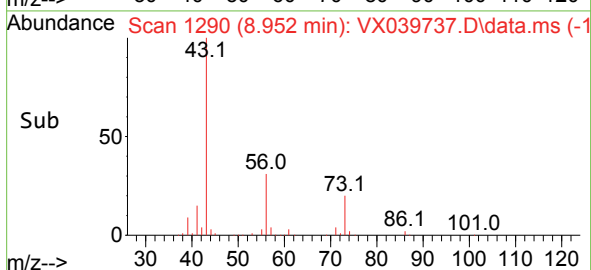
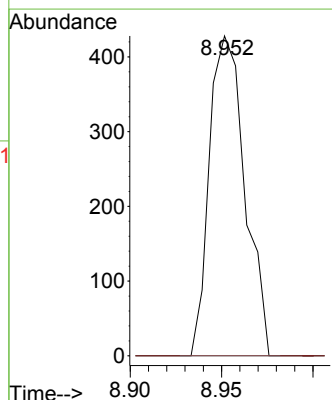
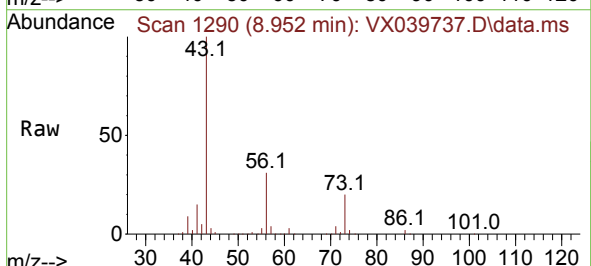
Acq: 12 Jan 2024 15:14

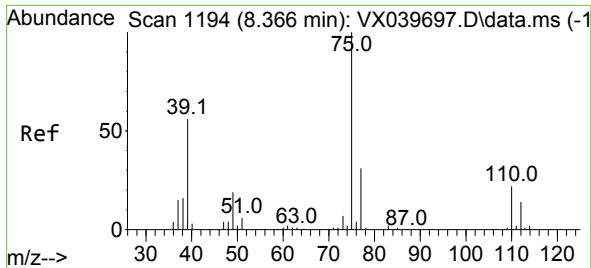
Tgt Ion: 75 Resp: 579

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

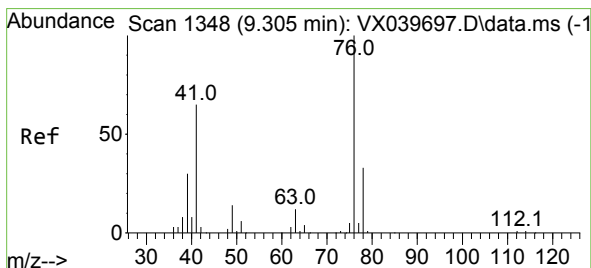
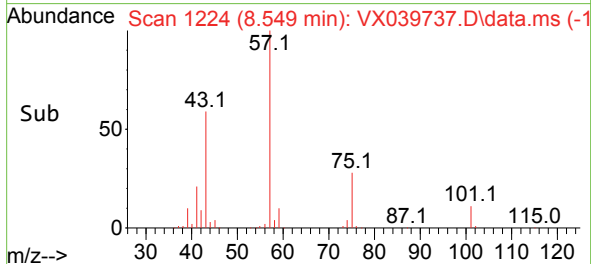
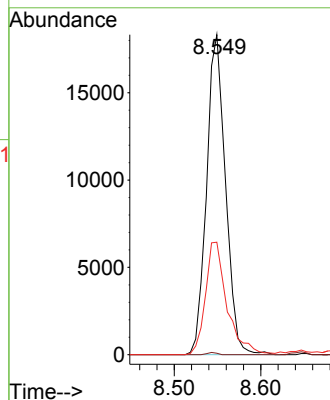
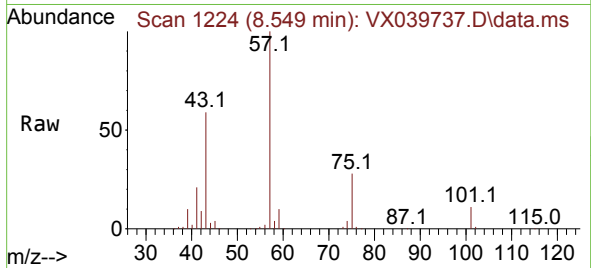




#54  
 cis-1,3-Dichloropropene  
 Concen: 14.738 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX039737.D  
 Acq: 12 Jan 2024 15:14

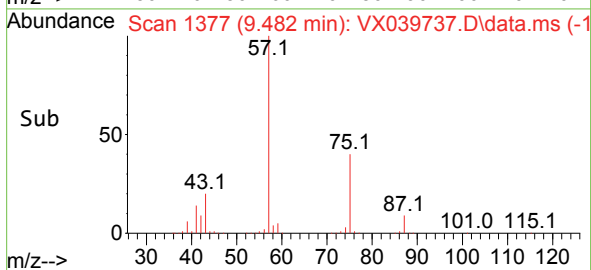
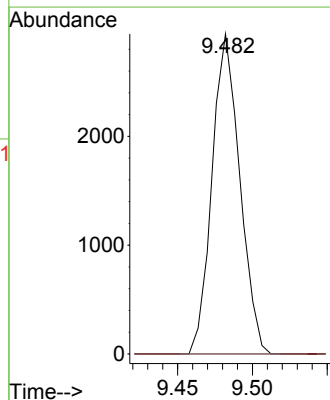
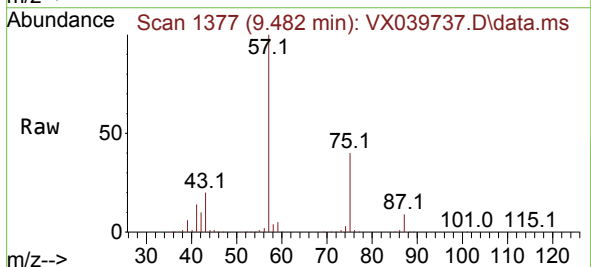
Instrument :  
 MSVOA\_X  
 ClientSampleId :

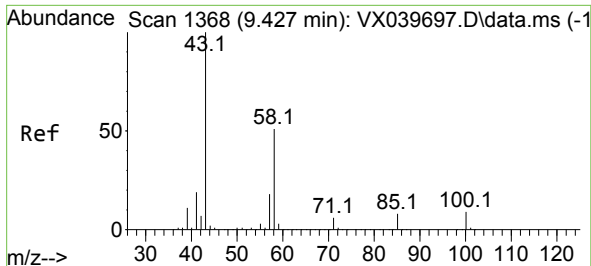
Tgt Ion: 75 Resp: 27785  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 25.3 37.9#  
 39 35.2 46.7 70.1#



#57  
 1,3-Dichloropropane  
 Concen: 1.871 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX039737.D  
 Acq: 12 Jan 2024 15:14

Tgt Ion: 76 Resp: 3796  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.1 39.1#

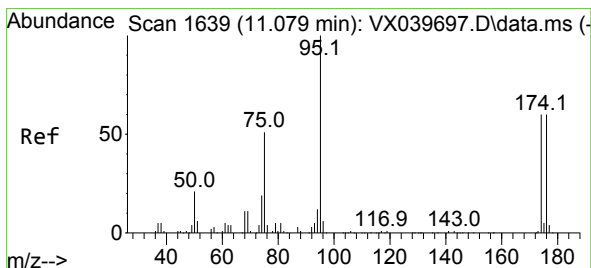
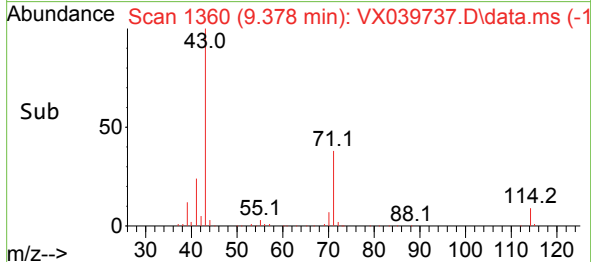
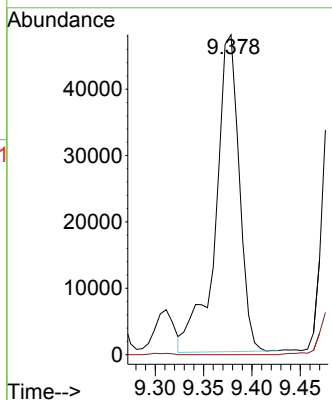
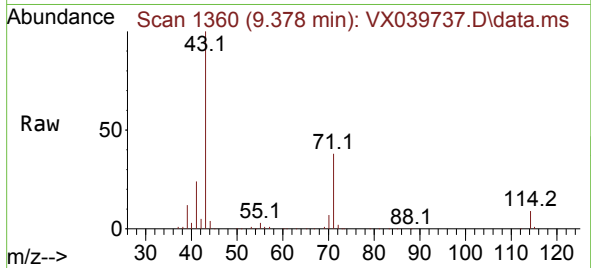




#59  
2-Hexanone  
Concen: 45.712 ug/l  
RT: 9.378 min Scan# 11  
Delta R.T. -0.049 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

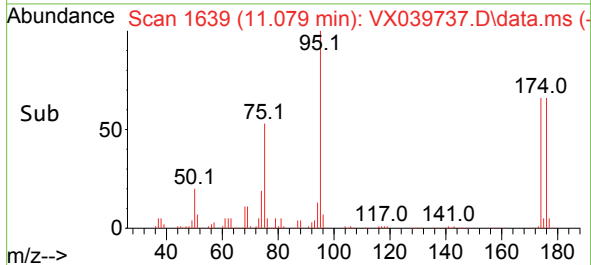
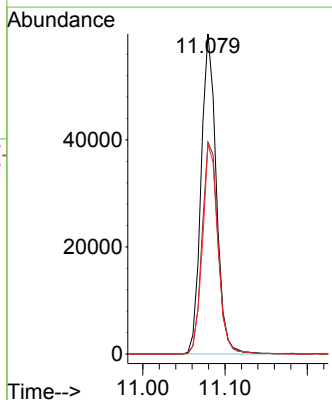
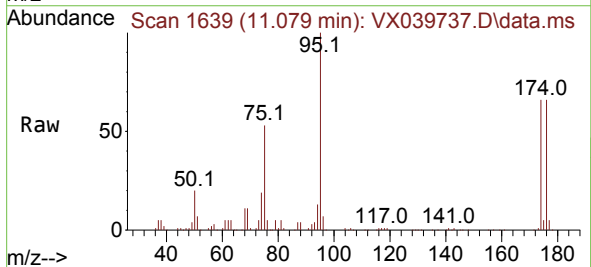
Instrument :  
MSVOA\_X  
ClientSampleId :

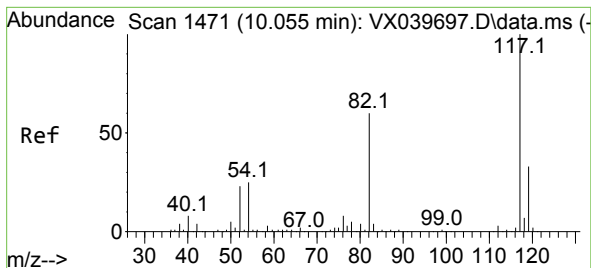
Tgt Ion: 43 Resp: 81084  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 48.623 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX039737.D  
Acq: 12 Jan 2024 15:14

Tgt Ion: 95 Resp: 76609  
Ion Ratio Lower Upper  
95 100  
174 69.4 0.0 135.6  
176 66.9 0.0 131.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

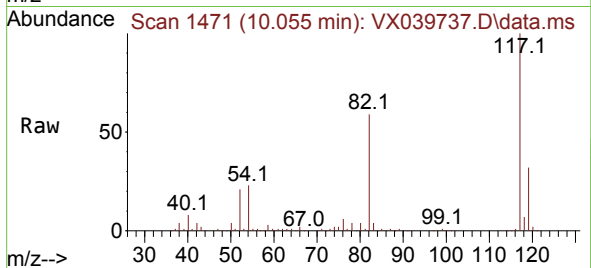
Lab File: VX039737.D

Acq: 12 Jan 2024 15:14

Instrument :

MSVOA\_X

ClientSampleId :



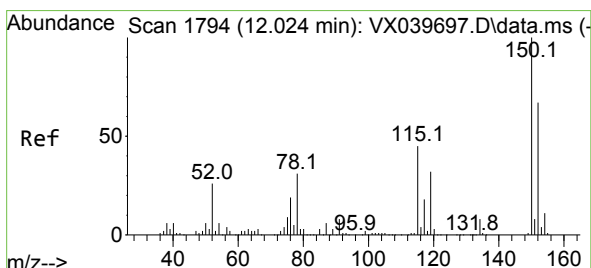
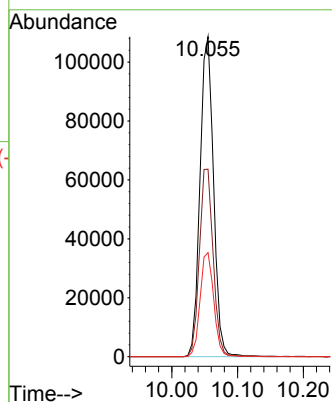
Tgt Ion:117 Resp: 155325

Ion Ratio Lower Upper

117 100

82 58.6 46.2 69.4

119 32.5 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: VX039737.D

Acq: 12 Jan 2024 15:14

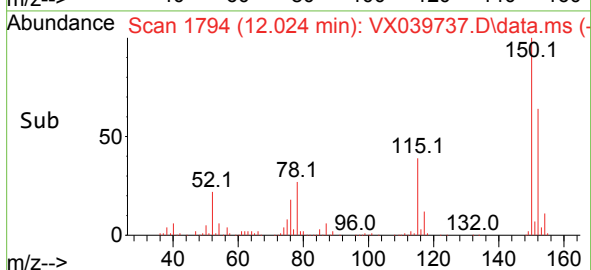
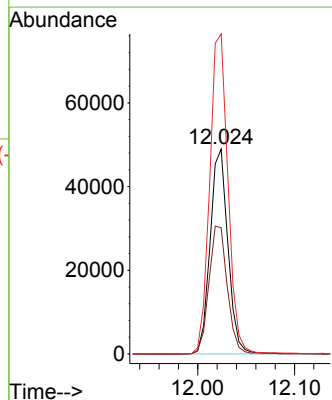
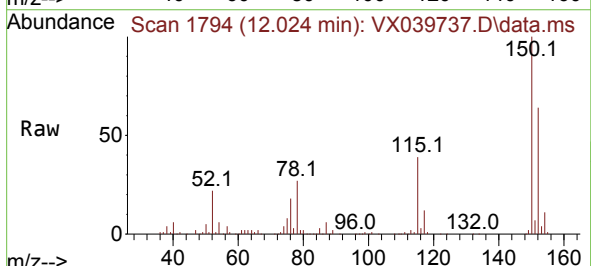
Tgt Ion:152 Resp: 62546

Ion Ratio Lower Upper

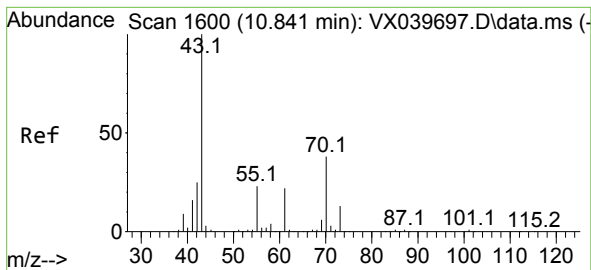
152 100

115 64.8 43.3 129.9

150 160.8 0.0 345.0







#74

N-amy1 acetate

Concen: 6.500 ug/l

RT: 10.640 min Scan# 1

Delta R.T. -0.201 min

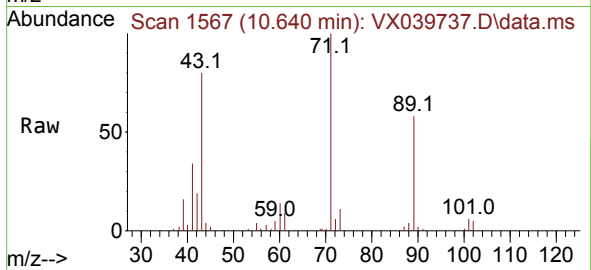
Lab File: VX039737.D

Acq: 12 Jan 2024 15:14

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 43 Resp: 16872

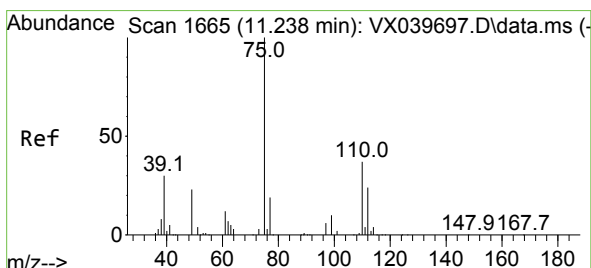
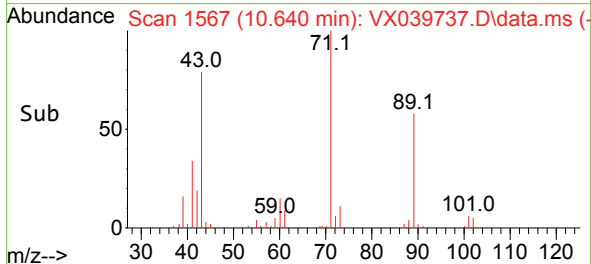
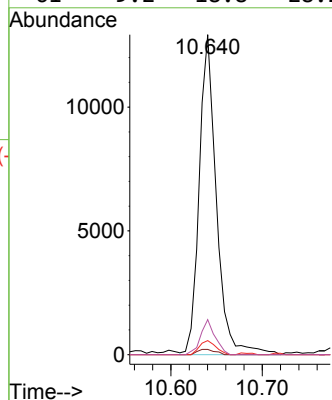
Ion Ratio Lower Upper

43 100

70 1.7 32.9 49.3#

55 4.2 19.3 28.9#

61 9.2 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 25.171 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX039737.D

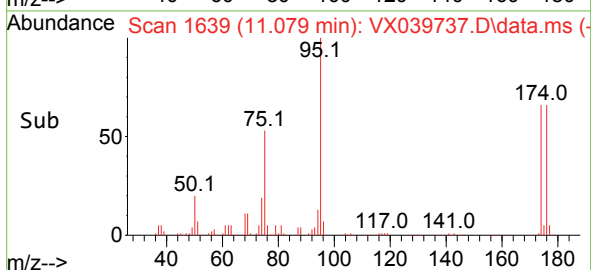
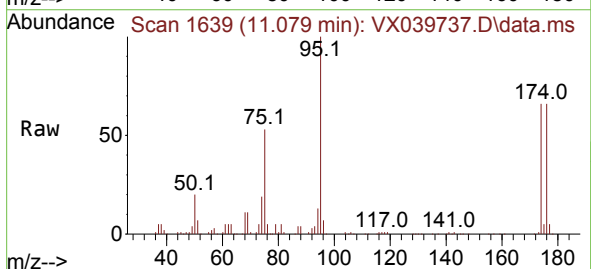
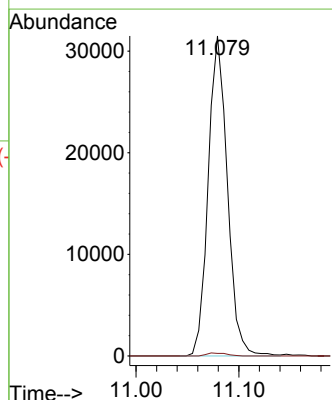
Acq: 12 Jan 2024 15:14

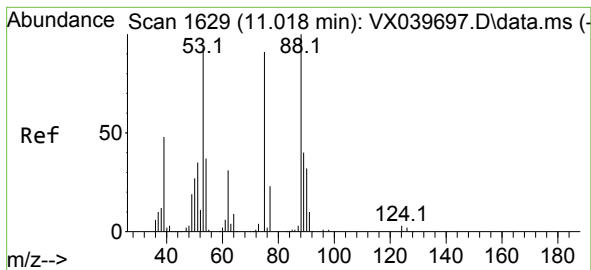
Tgt Ion: 75 Resp: 40816

Ion Ratio Lower Upper

75 100

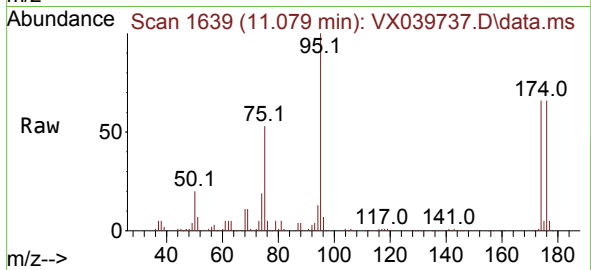
77 1.0 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 71.932 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX039737.D  
 Acq: 12 Jan 2024 15:14

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 40816  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

