

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011224\  
 Data File : VX039741.D  
 Acq On : 12 Jan 2024 16:45  
 Operator : JC/MD  
 Sample : P1117-10  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

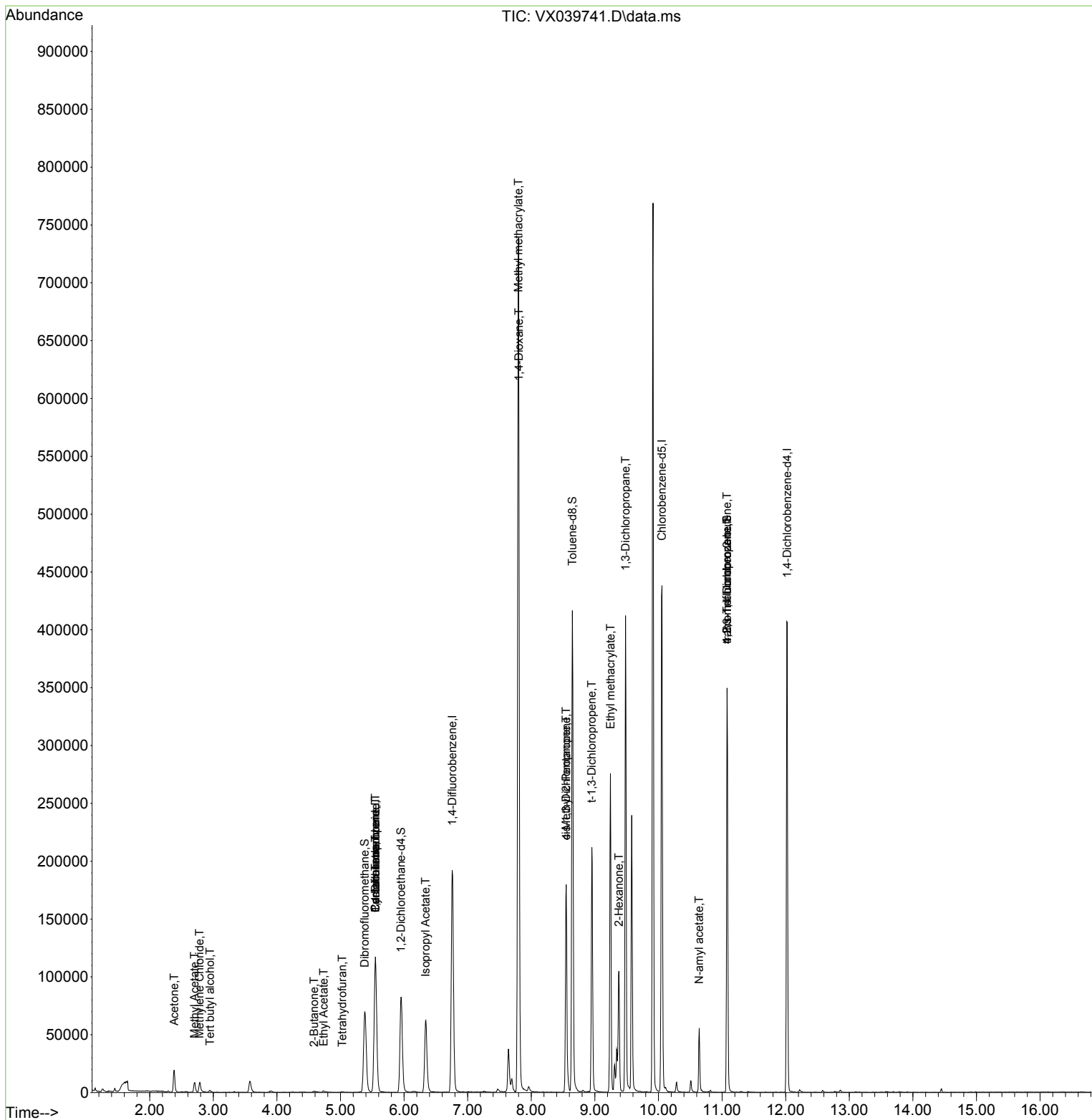
Instrument :  
 MSVOA\_X  
 ClientSampleId :

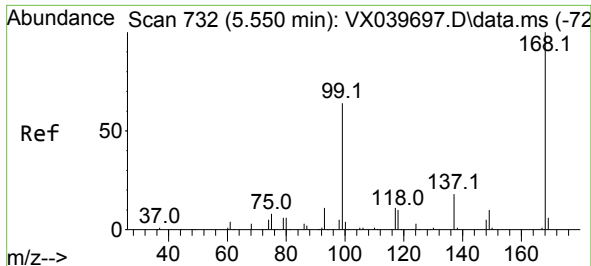
Quant Time: Jan 12 22:41:26 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 03:51:26 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 104421   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 196909   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 189858   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 82167    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 79251    | 45.307    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 90.620%  |
| 35) Dibromofluoromethane      | 5.379  | 113   | 62287    | 46.964    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 93.920%  |
| 50) Toluene-d8                | 8.647  | 98    | 241619   | 48.304    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 96.600%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 94494    | 48.308    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 96.620%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 2.946  | 59    | 1260     | 2.767     | ug/l # | 78       |
| 13) Acrolein                  | 2.245  | 56    | 26       | Below Cal | #      | 1        |
| 16) Acetone                   | 2.386  | 43    | 20662    | 21.003    | ug/l   | 94       |
| 18) Methyl Acetate            | 2.703  | 43    | 11225    | 5.454     | ug/l   | 95       |
| 20) Methylene Chloride        | 2.782  | 84    | 4419     | 2.970     | ug/l # | 94       |
| 25) 2-Butanone                | 4.586  | 43    | 2173     | 1.537     | ug/l   | 94       |
| 29) Tetrahydrofuran           | 5.025  | 42    | 388      | 0.426     | ug/l # | 34       |
| 31) Cyclohexane               | 5.550  | 56    | 2673     | 1.158     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 9563     | 4.632     | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.733  | 43    | 2467     | 0.896     | ug/l # | 81       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 11261    | 5.956     | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.336  | 43    | 87100    | 21.559    | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.799  | 41    | 65685    | 33.077    | ug/l # | 49       |
| 49) 1,4-Dioxane               | 7.805  | 88    | 28       | 0.729     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 66572    | 23.926    | ug/l # | 51       |
| 53) t-1,3-Dichloropropene     | 8.951  | 75    | 472      | 0.222     | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 27677    | 11.825    | ug/l # | 59       |
| 56) Ethyl methacrylate        | 9.244  | 69    | 596      | 0.248     | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 3145     | 1.248     | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378  | 43    | 81907    | 37.194    | ug/l # | 26       |
| 74) N-amyl acetate            | 10.640 | 43    | 14383    | 4.218     | ug/l # | 53       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 51711    | 24.275    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 51711    | 69.666    | ug/l # | 5        |
| -----                         |        |       |          |           |        |          |

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

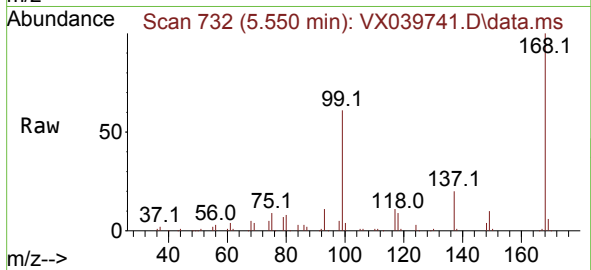
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Quant Title : SW846 8260  
QLast Update : Thu Jan 11 03:51:26 2024  
Response via : Initial Calibration



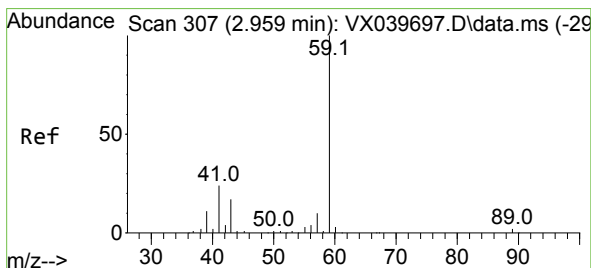
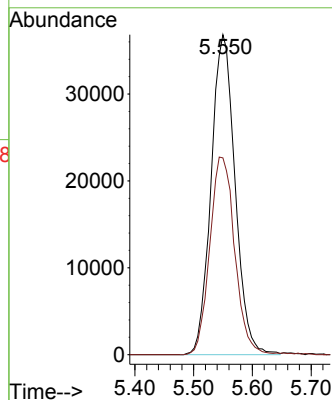
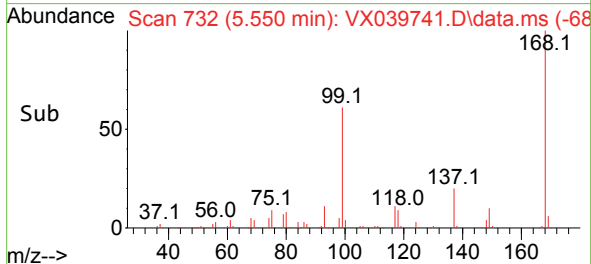


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Instrument :  
MSVOA\_X  
ClientSampleId :

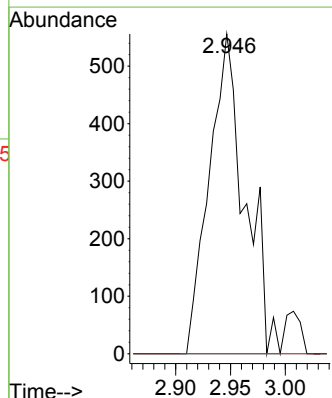
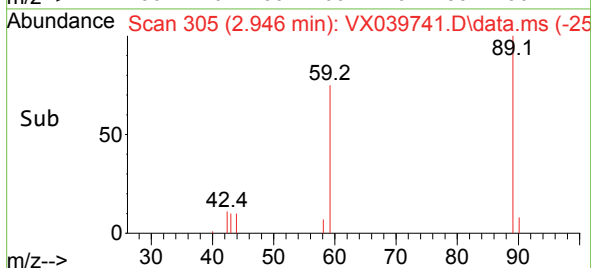
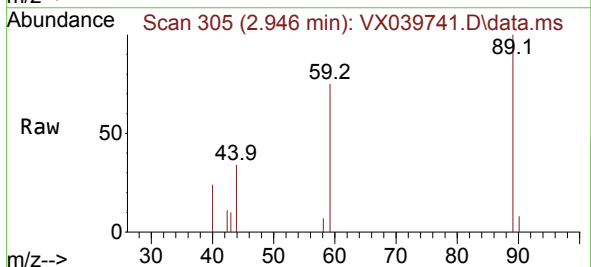


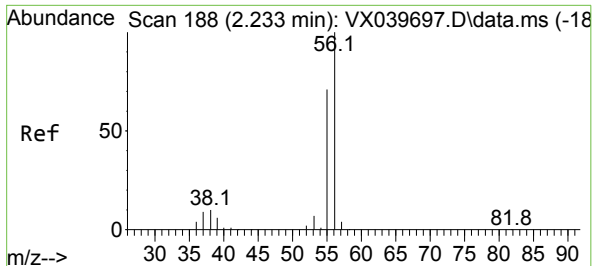
Tgt Ion:168 Resp: 104421  
Ion Ratio Lower Upper  
168 100  
99 61.5 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 2.767 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.012 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

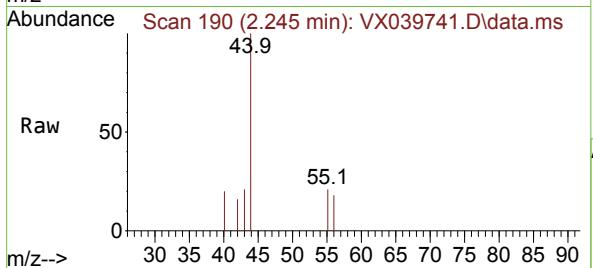
Tgt Ion: 59 Resp: 1260  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



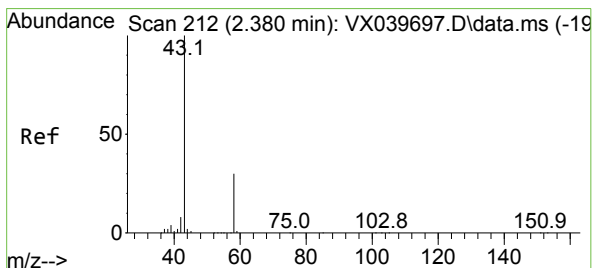
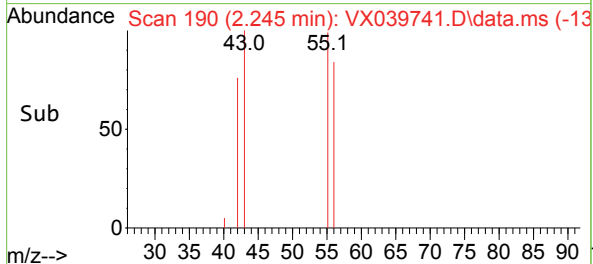
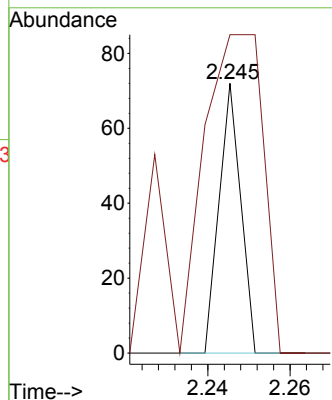


#13  
Acrolein  
Concen: Below Cal  
RT: 2.245 min Scan# 19  
Delta R.T. 0.012 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Instrument :  
MSVOA\_X  
ClientSampleId :

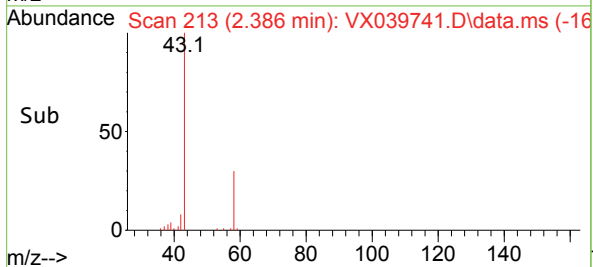
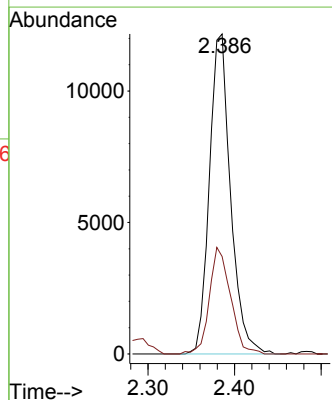
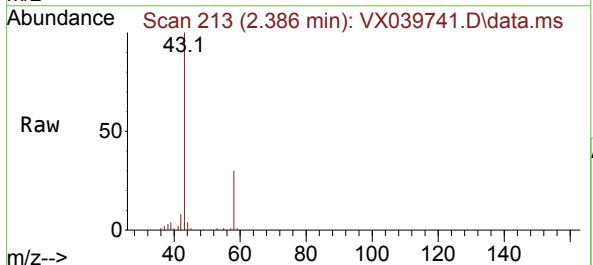


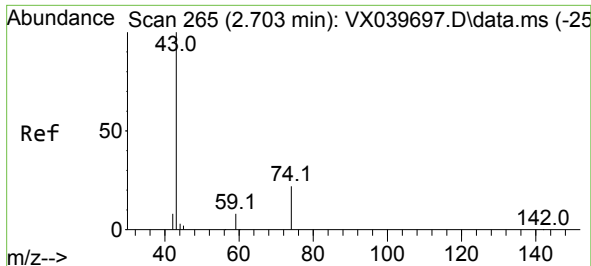
Tgt Ion: 56 Resp: 26  
Ion Ratio Lower Upper  
56 100  
55 400.0 57.1 85.7#



#16  
Acetone  
Concen: 21.003 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Tgt Ion: 43 Resp: 20662  
Ion Ratio Lower Upper  
43 100  
58 30.5 21.9 32.9

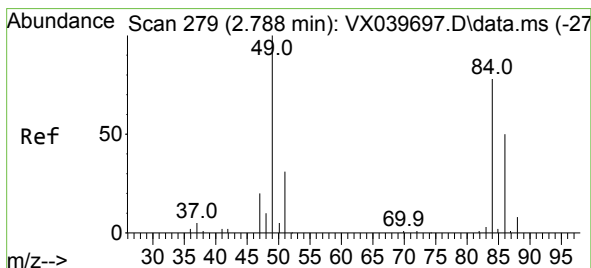
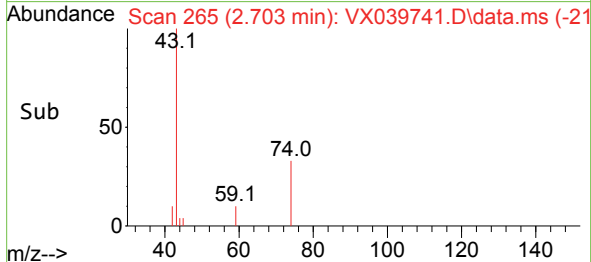
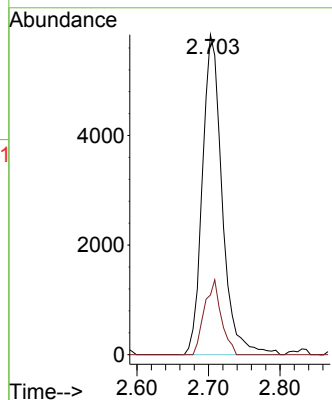
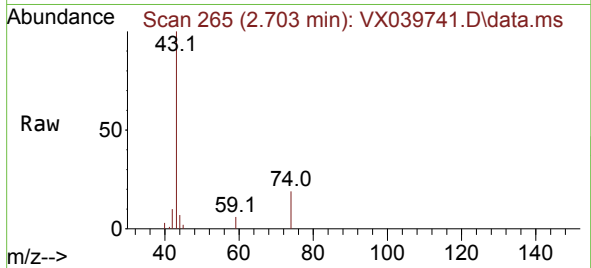




#18  
Methyl Acetate  
Concen: 5.454 ug/l  
RT: 2.703 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

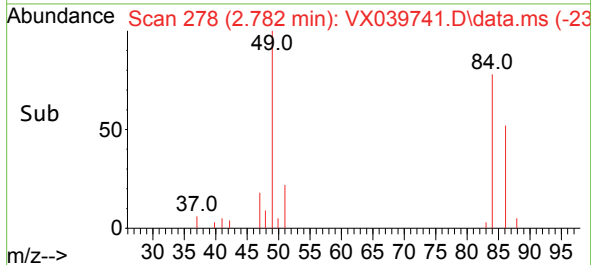
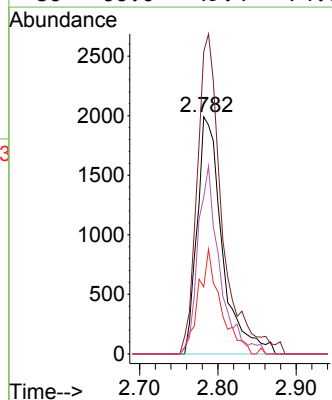
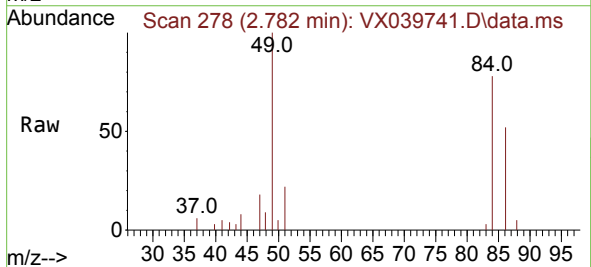
Instrument :  
MSVOA\_X  
ClientSampleId :

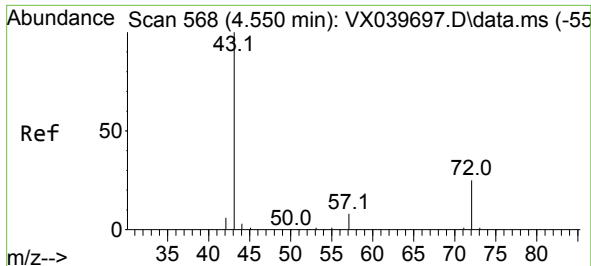
Tgt Ion: 43 Resp: 11225  
Ion Ratio Lower Upper  
43 100  
74 19.9 17.8 26.8



#20  
Methylene Chloride  
Concen: 2.970 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. -0.006 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Tgt Ion: 84 Resp: 4419  
Ion Ratio Lower Upper  
84 100  
49 127.4 103.6 155.4  
51 28.3 33.8 50.6#  
86 66.0 49.4 74.0

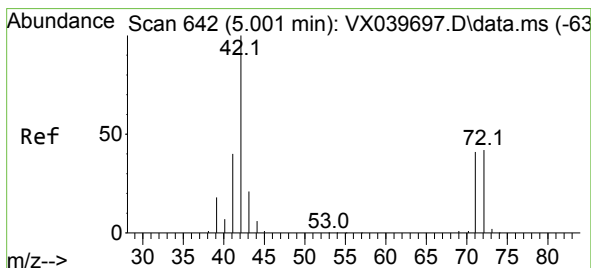
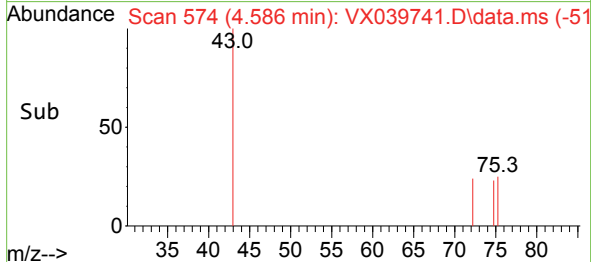
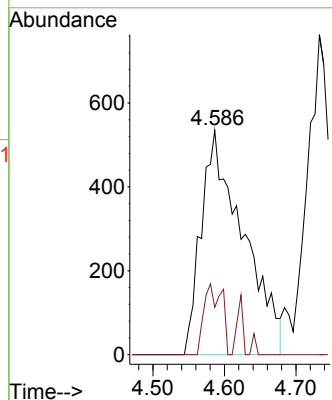
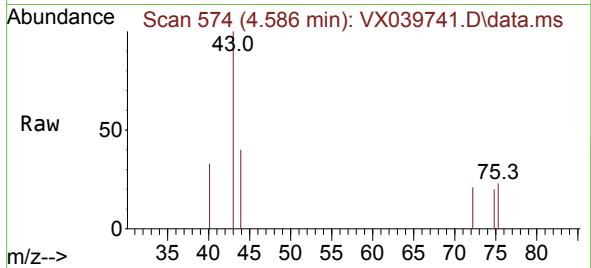




#25  
2-Butanone  
Concen: 1.537 ug/l  
RT: 4.586 min Scan# 51  
Delta R.T. 0.037 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

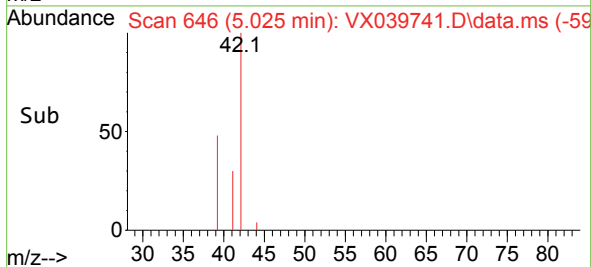
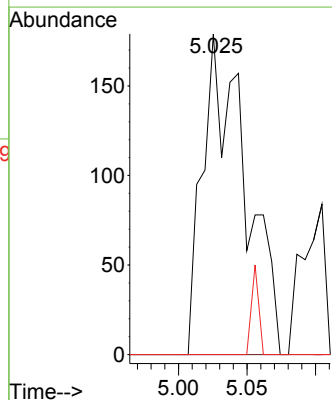
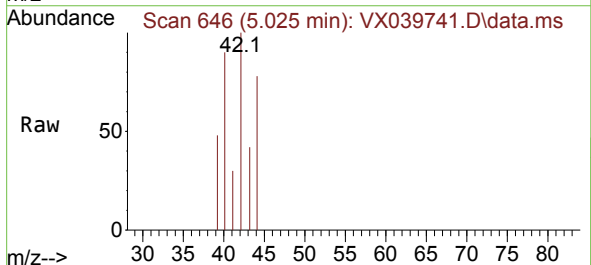
Instrument :  
MSVOA\_X  
ClientSampleId :

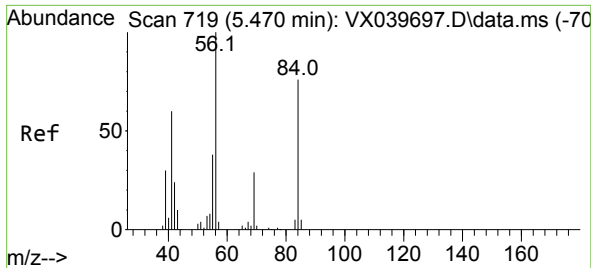
Tgt Ion: 43 Resp: 2173  
Ion Ratio Lower Upper  
43 100  
72 21.1 19.4 29.2



#29  
Tetrahydrofuran  
Concen: 0.426 ug/l  
RT: 5.025 min Scan# 646  
Delta R.T. 0.024 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

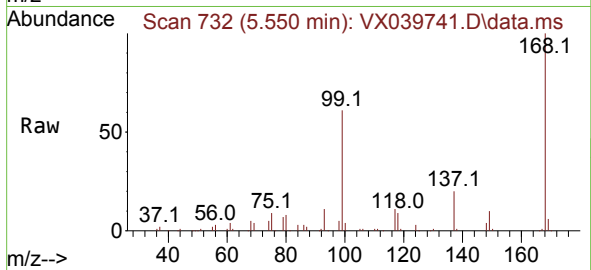
Tgt Ion: 42 Resp: 388  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.4#  
71 0.0 32.2 48.2#



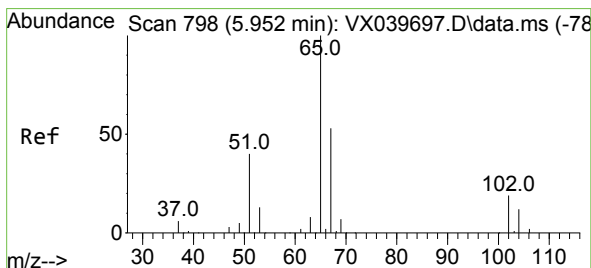
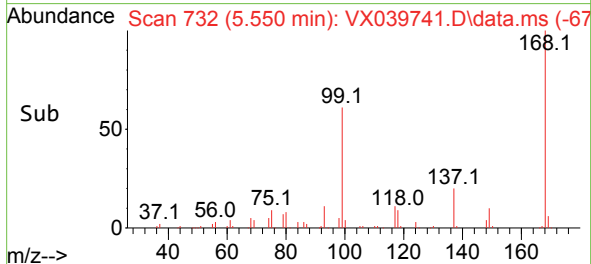
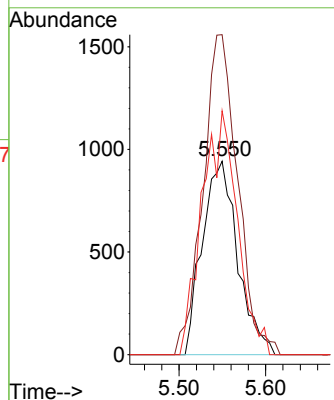


#31  
Cyclohexane  
Concen: 1.158 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Instrument :  
MSVOA\_X  
ClientSampleId :

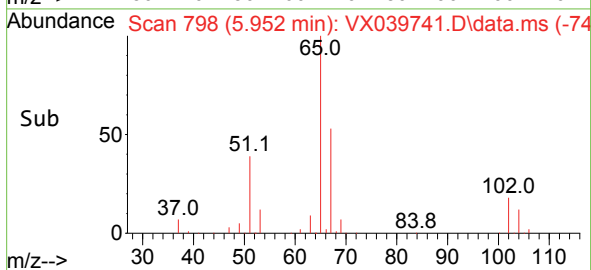
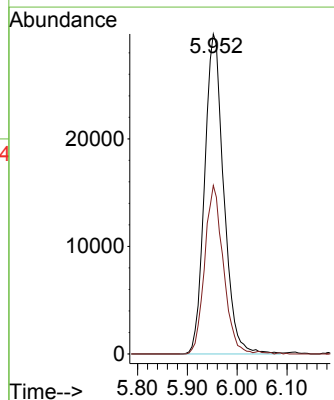
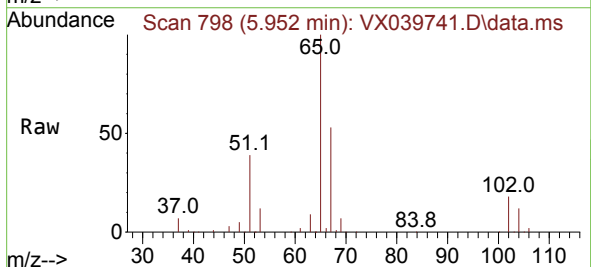


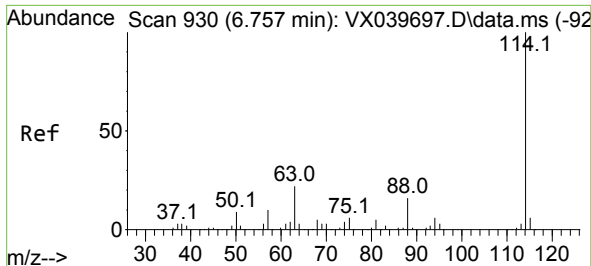
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Ion Ratio Lower Upper  
56 100  
69 165.5 23.4 35.2#  
84 126.1 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 45.307 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Tgt Ion: 65 Resp: 79251  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 100.2

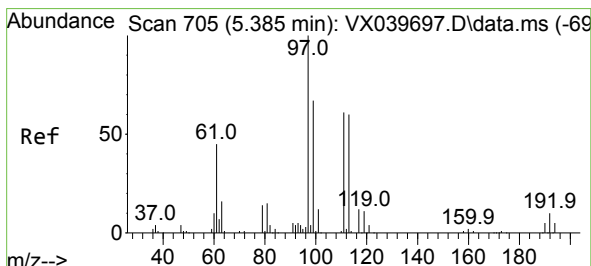
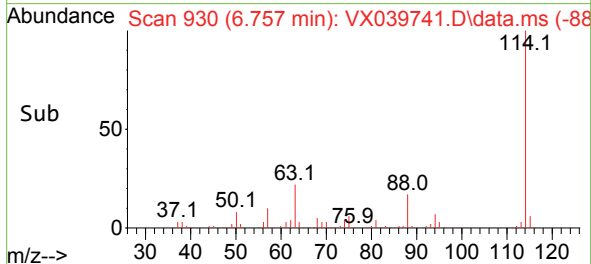
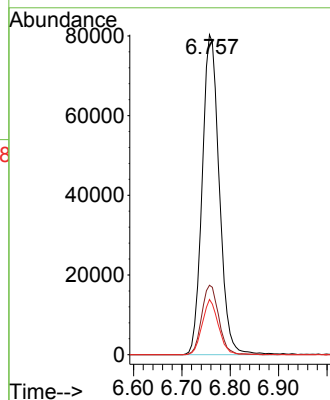
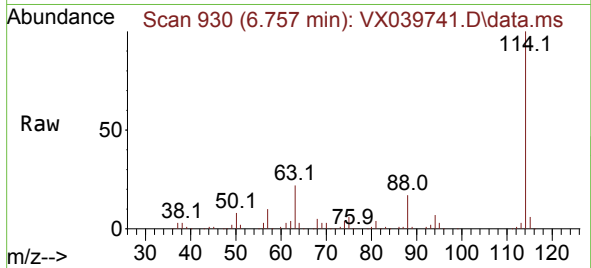




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

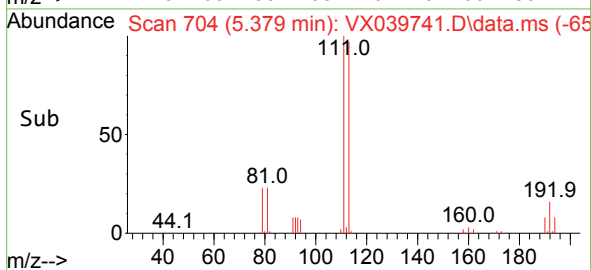
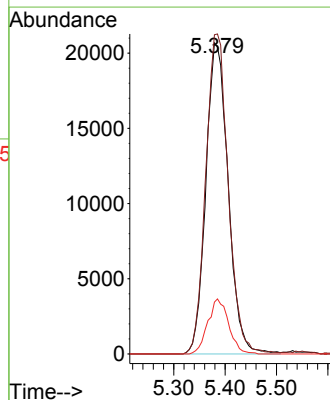
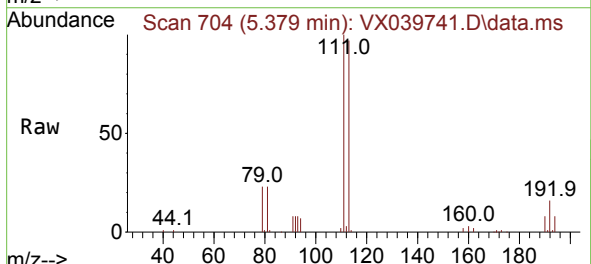
Instrument :  
MSVOA\_X  
ClientSampleId :

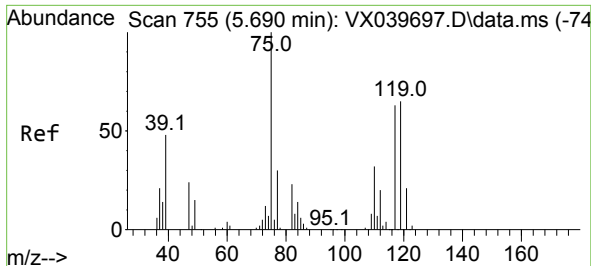
Tgt Ion:114 Resp: 196909  
Ion Ratio Lower Upper  
114 100  
63 21.7 0.0 45.0  
88 17.2 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.964 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.006 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

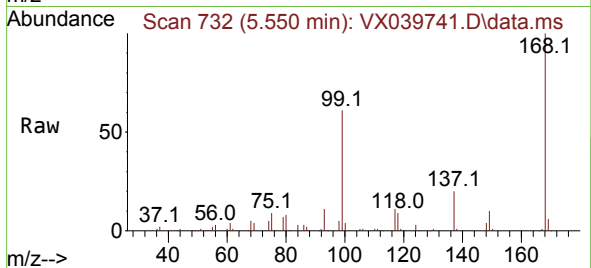
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Ion Ratio Lower Upper  
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111 103.7 82.9 124.3  
192 16.6 13.3 19.9



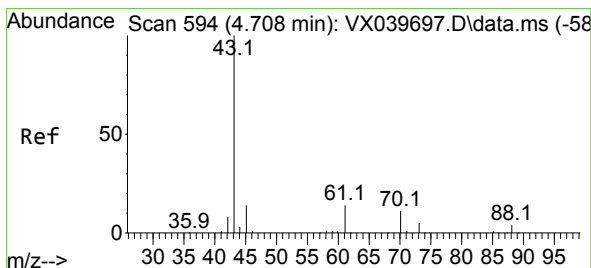
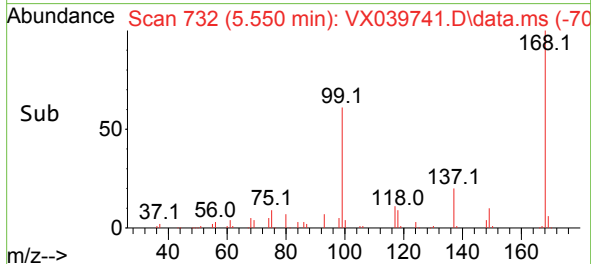
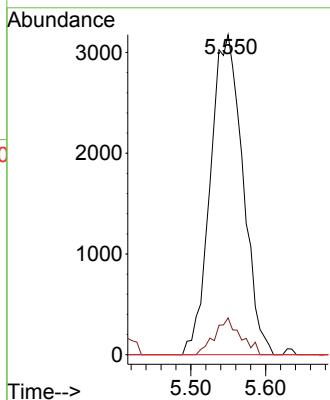


#36  
1,1-Dichloropropene  
Concen: 4.632 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Instrument :  
MSVOA\_X  
ClientSampleId :

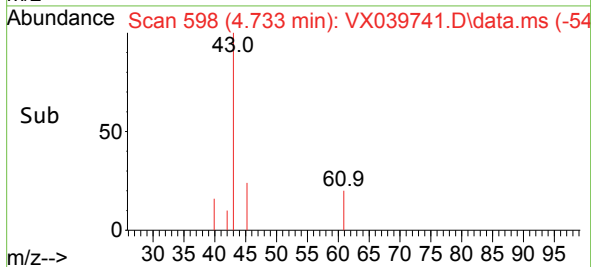
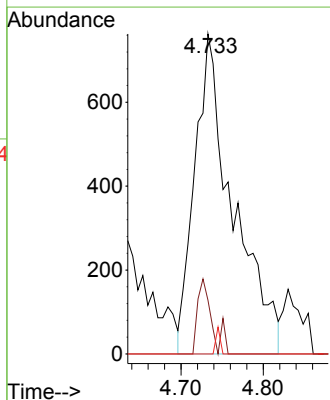
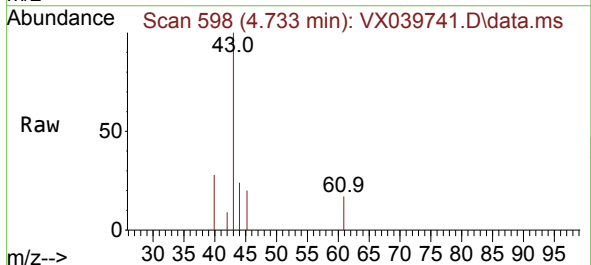


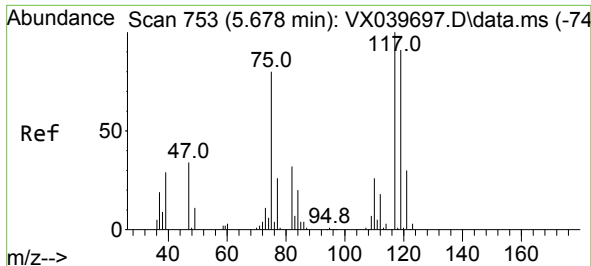
Tgt Ion: 75 Resp: 9563  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 0.896 ug/l  
RT: 4.733 min Scan# 598  
Delta R.T. 0.024 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

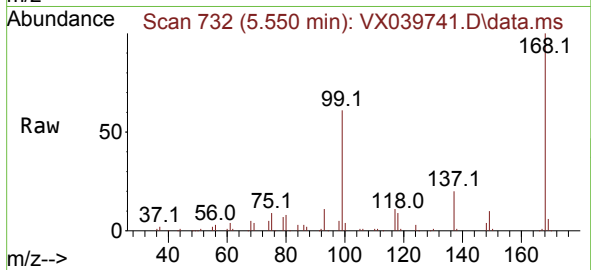
Tgt Ion: 43 Resp: 2467  
Ion Ratio Lower Upper  
43 100  
61 7.4 10.6 16.0#  
70 0.9 8.3 12.5#



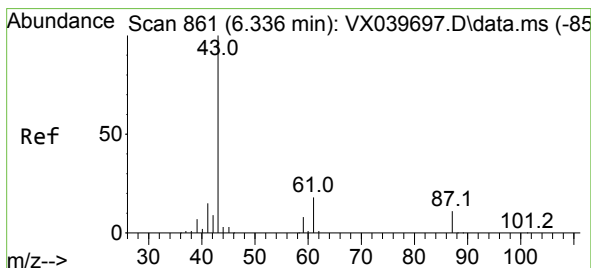
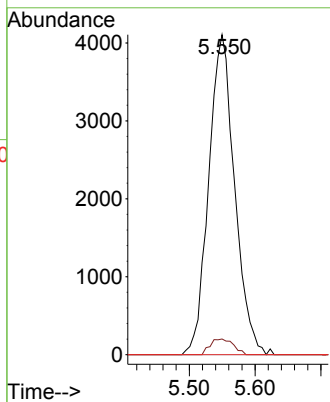
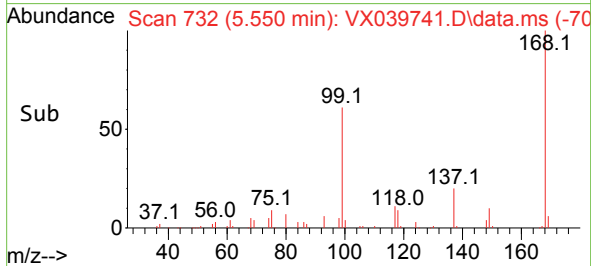


#38  
Carbon Tetrachloride  
Concen: 5.956 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Instrument :  
MSVOA\_X  
ClientSampleId :

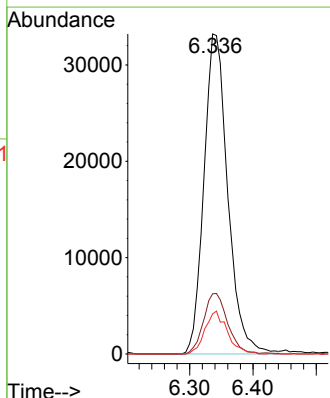
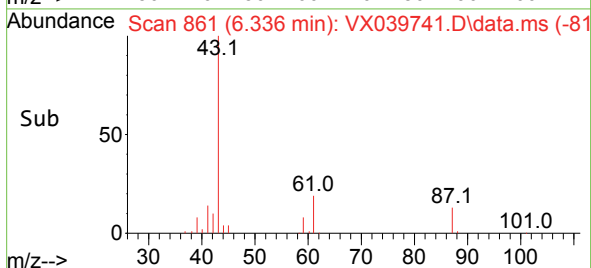
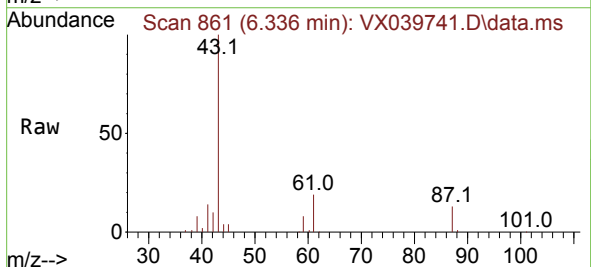


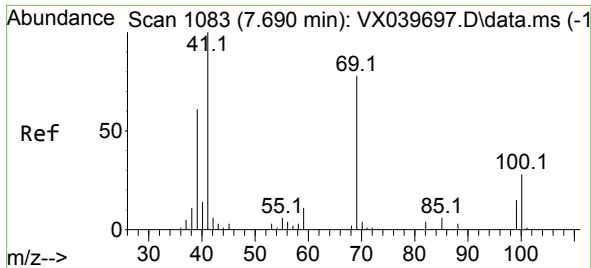
Tgt Ion:117 Resp: 11261  
Ion Ratio Lower Upper  
117 100  
119 4.9 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 21.559 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. -0.000 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Tgt Ion: 43 Resp: 87100  
Ion Ratio Lower Upper  
43 100  
61 19.0 15.2 22.8  
87 12.5 9.8 14.6

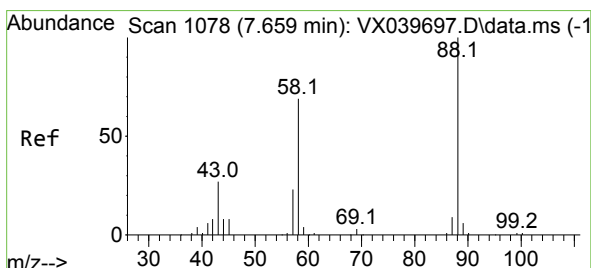
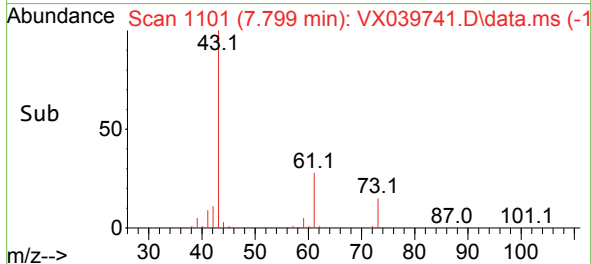
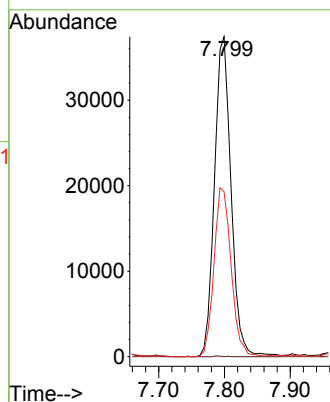
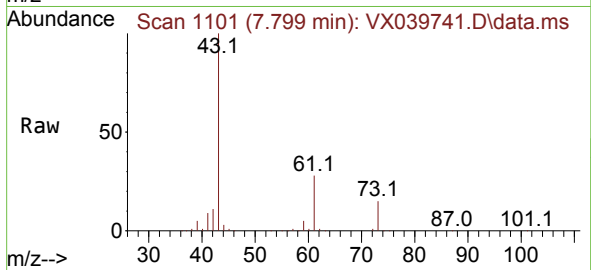




#48  
Methyl methacrylate  
Concen: 33.077 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

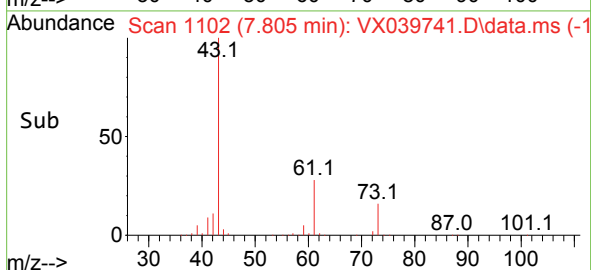
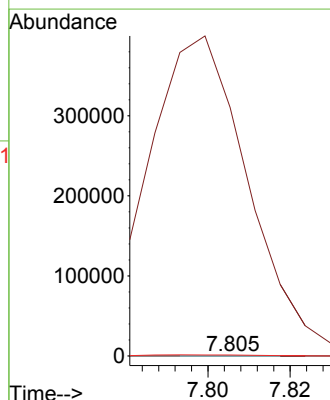
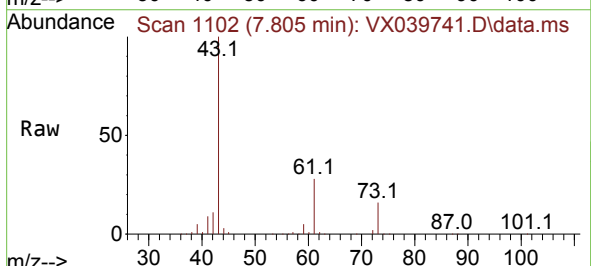
Instrument :  
MSVOA\_X  
ClientSampleId :

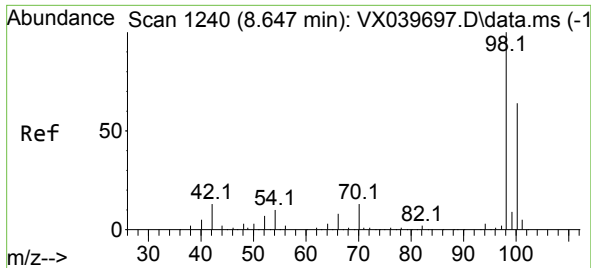
Tgt Ion: 41 Resp: 65685  
Ion Ratio Lower Upper  
41 100  
69 0.1 59.2 88.8#  
39 54.5 47.7 71.5



#49  
1,4-Dioxane  
Concen: 0.729 ug/l  
RT: 7.805 min Scan# 1102  
Delta R.T. 0.146 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Tgt Ion: 88 Resp: 28  
Ion Ratio Lower Upper  
88 100  
43 2528196.4 0.0 0.0#  
58 9982.1 60.1 90.1#

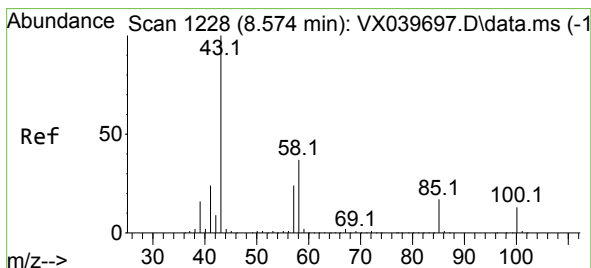
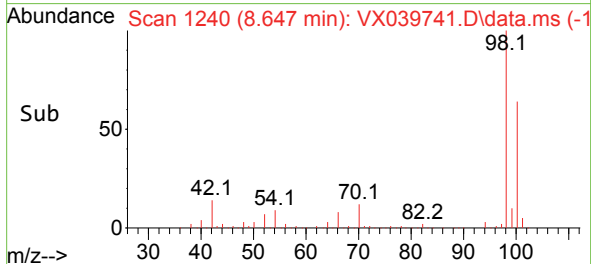
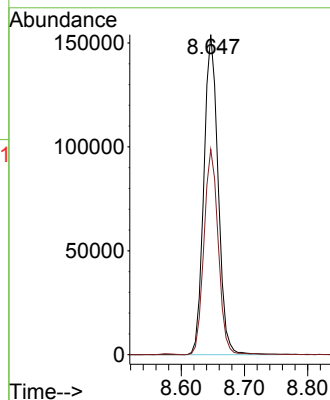
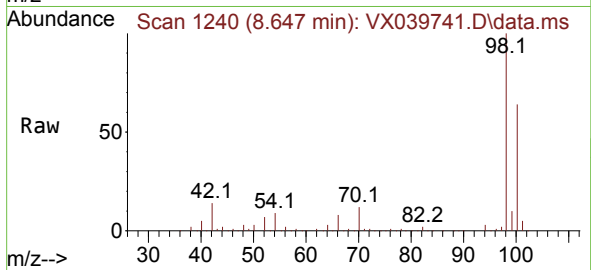




#50  
Toluene-d8  
Concen: 48.304 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

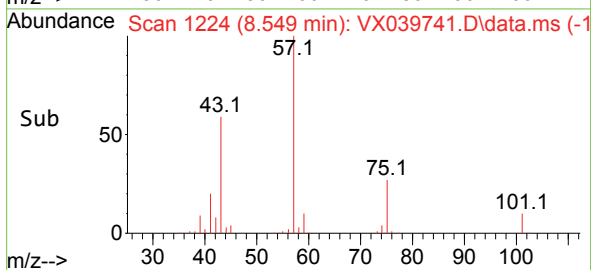
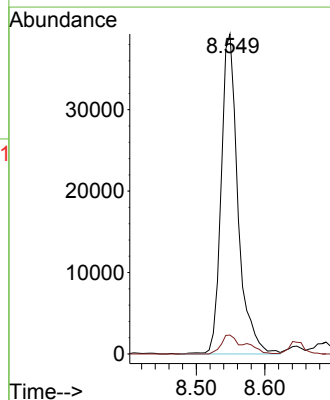
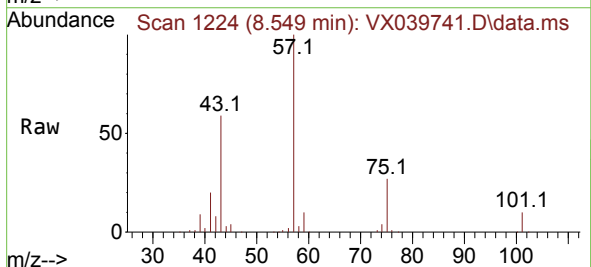
Instrument :  
MSVOA\_X  
ClientSampleId :

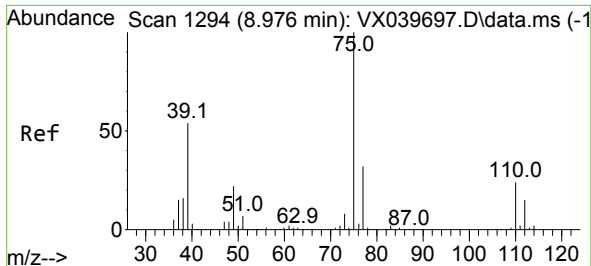
Tgt Ion: 98 Resp: 241619  
Ion Ratio Lower Upper  
98 100  
100 64.3 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 23.926 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Tgt Ion: 43 Resp: 66572  
Ion Ratio Lower Upper  
43 100  
58 8.2 30.4 45.6#

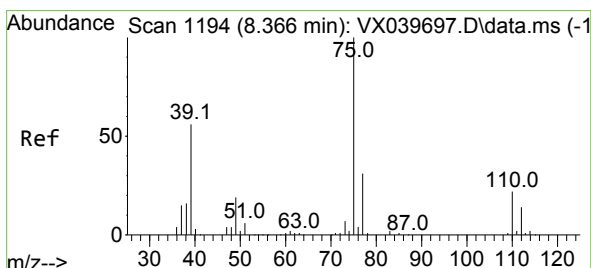
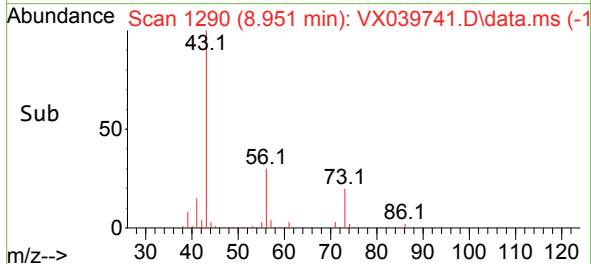
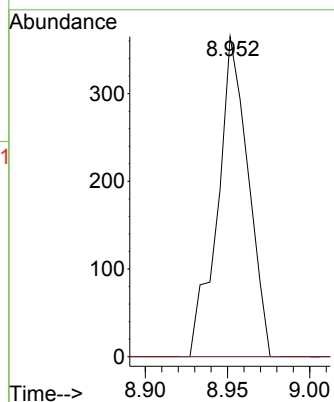
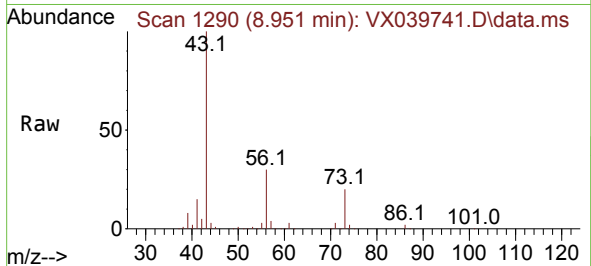




#53  
 t-1,3-Dichloropropene  
 Concen: 0.222 ug/l  
 RT: 8.951 min Scan# 11  
 Delta R.T. -0.024 min  
 Lab File: VX039741.D  
 Acq: 12 Jan 2024 16:45

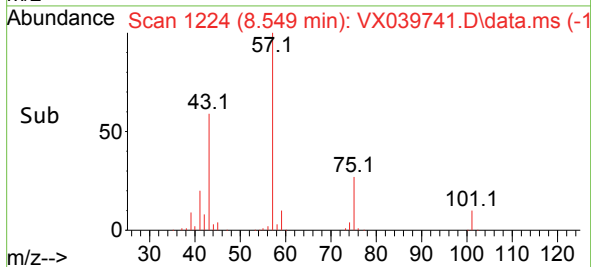
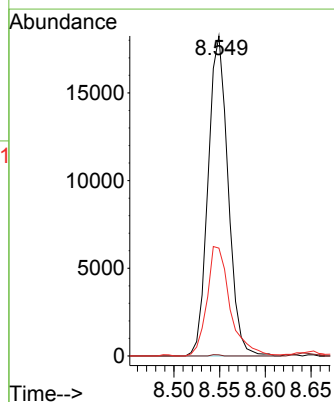
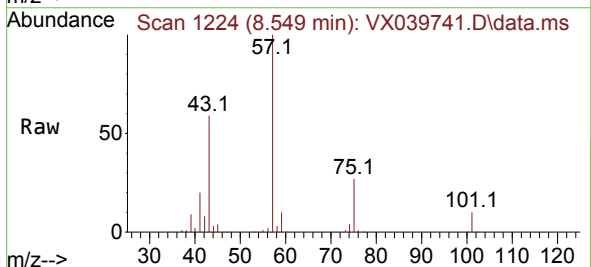
Instrument :  
 MSVOA\_X  
 ClientSampleId :

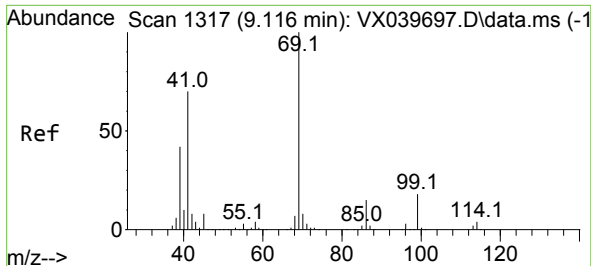
Tgt Ion: 75 Resp: 472  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 11.825 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX039741.D  
 Acq: 12 Jan 2024 16:45

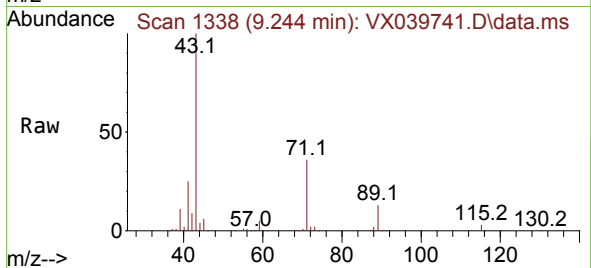
Tgt Ion: 75 Resp: 27677  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 25.3 37.9#  
 39 33.7 46.7 70.1#



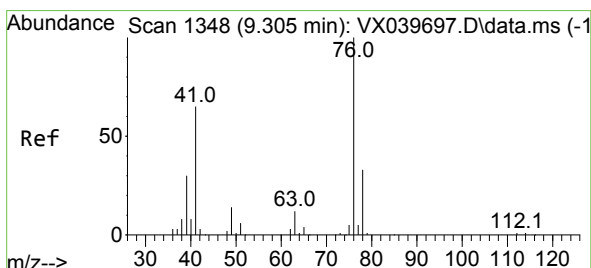
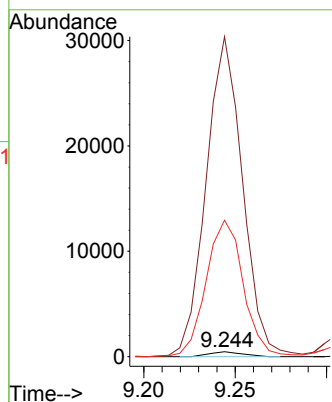
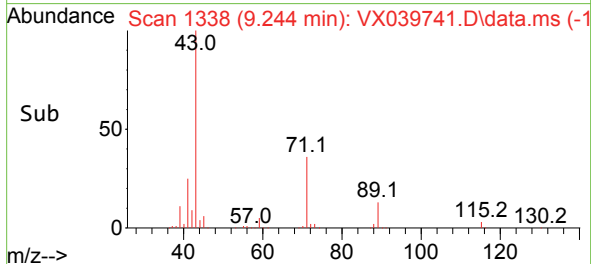


#56  
Ethyl methacrylate  
Concen: 0.248 ug/l  
RT: 9.244 min Scan# 1338  
Delta R.T. 0.128 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Instrument :  
MSVOA\_X  
ClientSampleId :

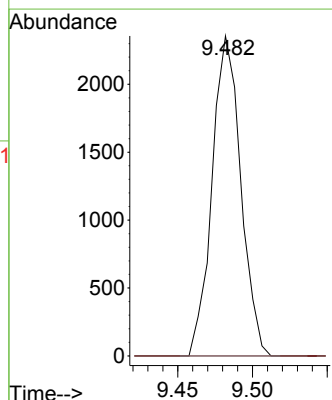
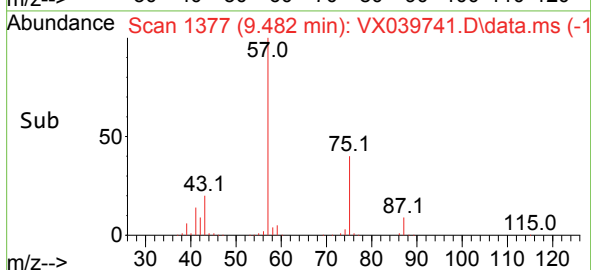
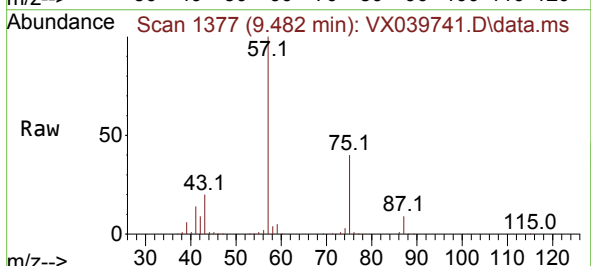


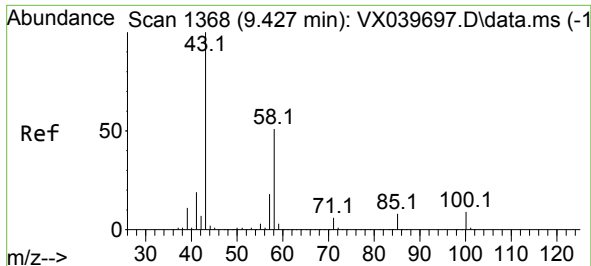
Tgt Ion: 69 Resp: 596  
Ion Ratio Lower Upper  
69 100  
41 7090.4 56.8 85.2#  
39 3088.8 32.0 48.0#



#57  
1,3-Dichloropropane  
Concen: 1.248 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Tgt Ion: 76 Resp: 3145  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#

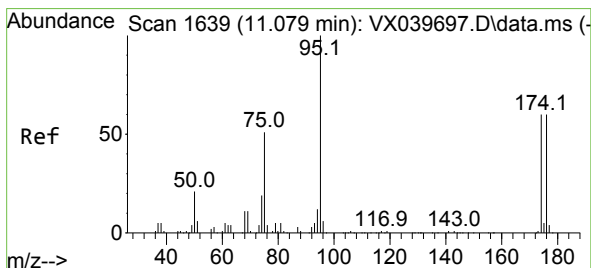
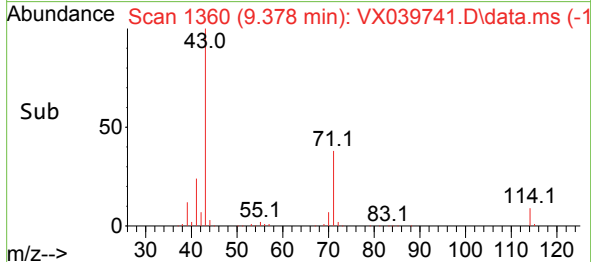
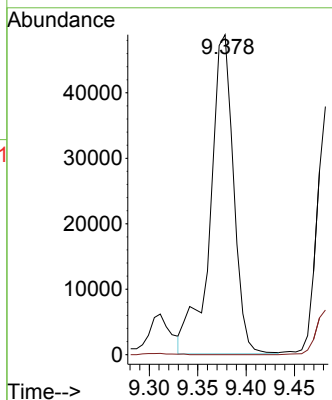
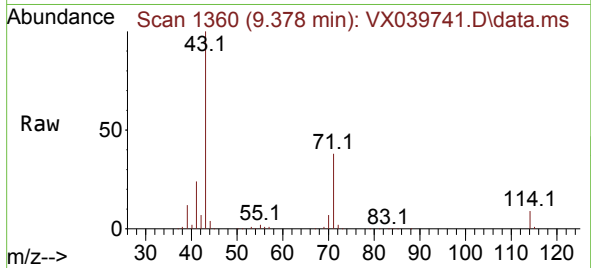




#59  
2-Hexanone  
Concen: 37.194 ug/l  
RT: 9.378 min Scan# 11  
Delta R.T. -0.049 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

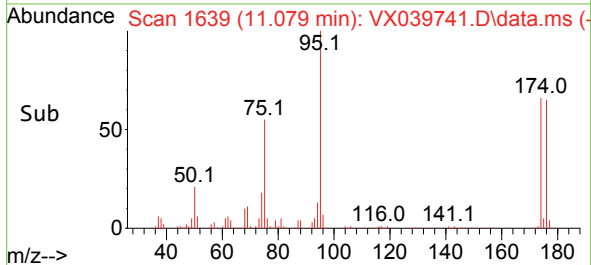
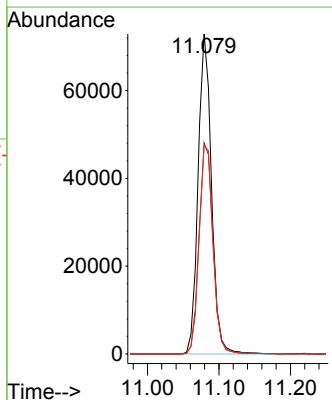
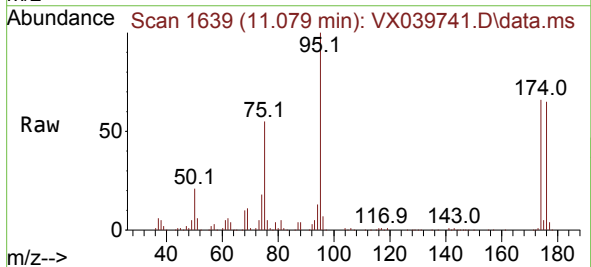
Instrument :  
MSVOA\_X  
ClientSampleId :

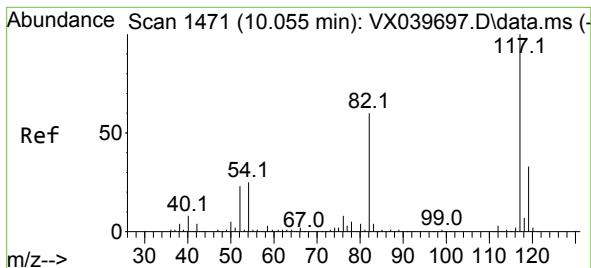
Tgt Ion: 43 Resp: 81907  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 48.308 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Tgt Ion: 95 Resp: 94494  
Ion Ratio Lower Upper  
95 100  
174 69.3 0.0 135.6  
176 67.6 0.0 131.0

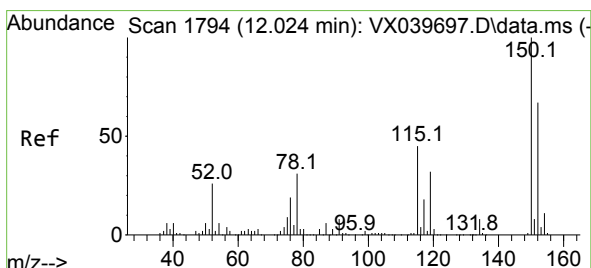
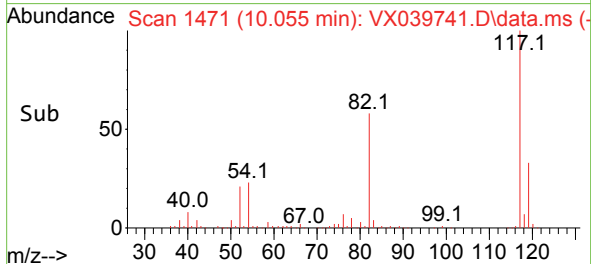
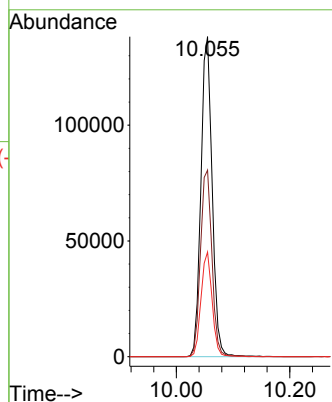
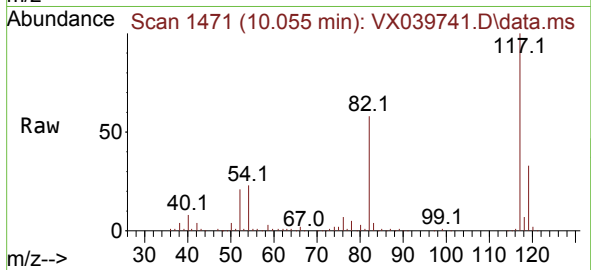




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

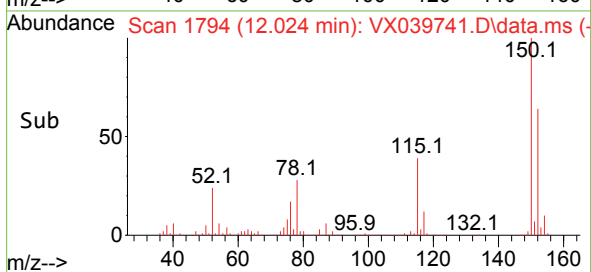
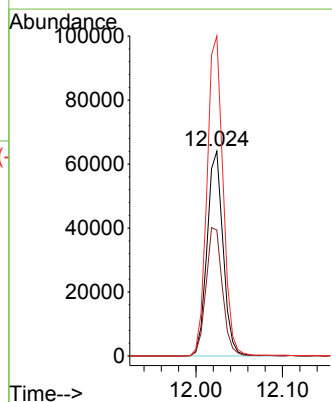
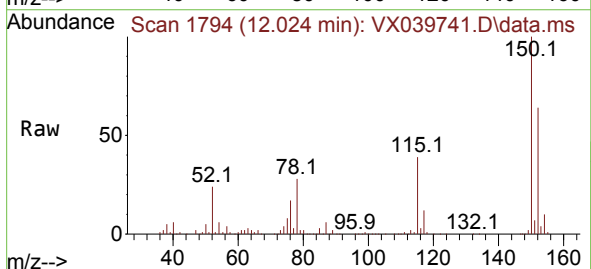
Instrument :  
MSVOA\_X  
ClientSampleId :

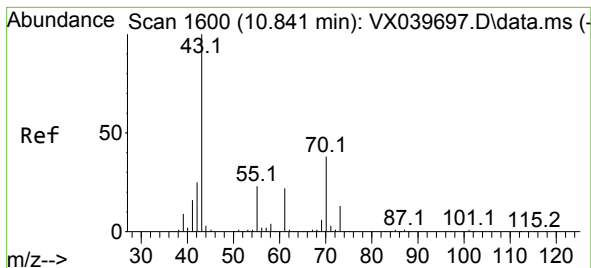
Tgt Ion:117 Resp: 189858  
Ion Ratio Lower Upper  
117 100  
82 58.3 46.2 69.4  
119 32.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX039741.D  
Acq: 12 Jan 2024 16:45

Tgt Ion:152 Resp: 82167  
Ion Ratio Lower Upper  
152 100  
115 64.3 43.3 129.9  
150 156.9 0.0 345.0





#74

N-amy1 acetate

Concen: 4.218 ug/l

RT: 10.640 min Scan# 1

Delta R.T. -0.201 min

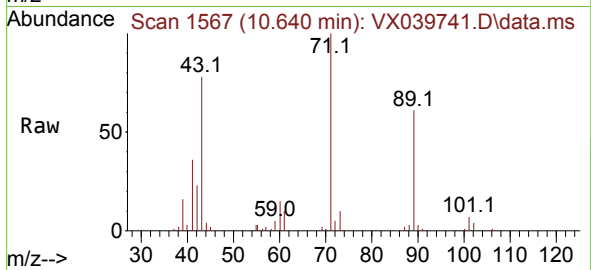
Lab File: VX039741.D

Acq: 12 Jan 2024 16:45

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 43 Resp: 14383

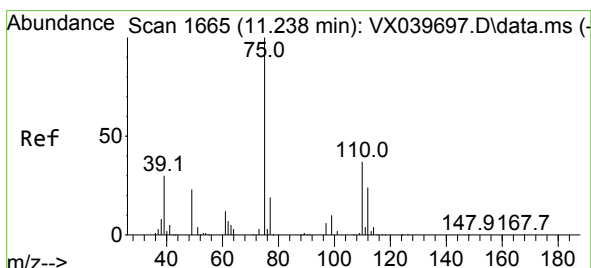
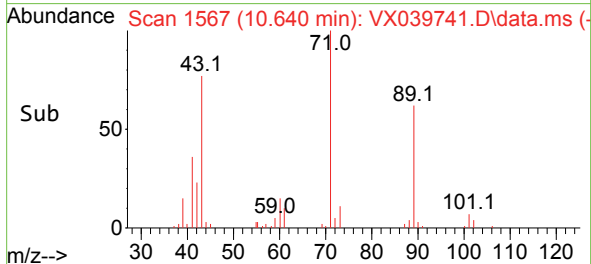
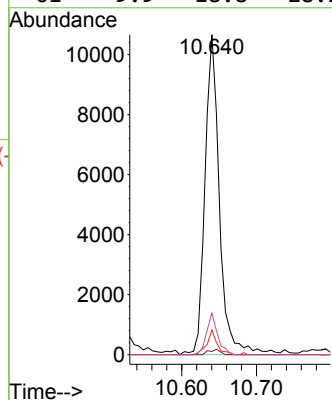
Ion Ratio Lower Upper

43 100

70 1.3 32.9 49.3#

55 5.4 19.3 28.9#

61 9.9 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 24.275 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX039741.D

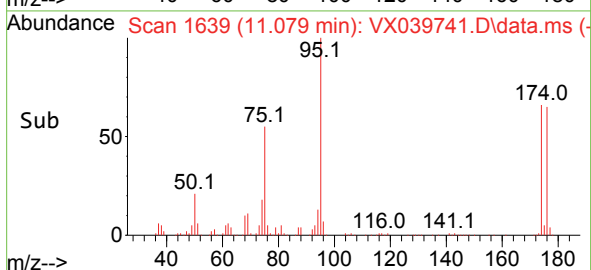
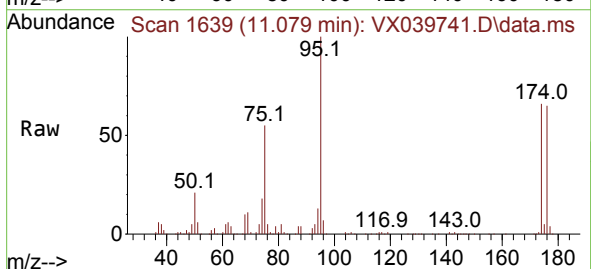
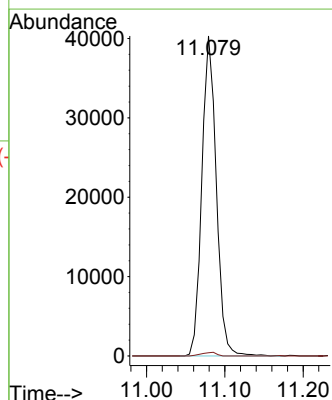
Acq: 12 Jan 2024 16:45

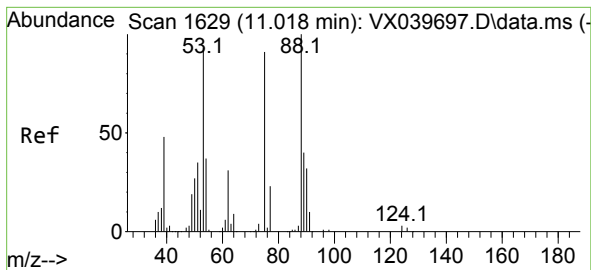
Tgt Ion: 75 Resp: 51711

Ion Ratio Lower Upper

75 100

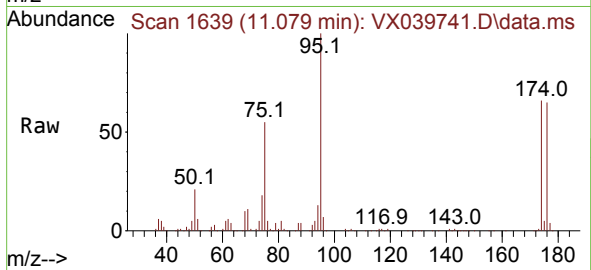
77 1.2 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 69.666 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX039741.D  
 Acq: 12 Jan 2024 16:45

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 51711  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

