

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080423\  
 Data File : VX036814.D  
 Acq On : 04 Aug 2023 16:43  
 Operator : JC/MD  
 Sample : ZHC#12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ZHC#12

Quant Time: Aug 05 00:13:56 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

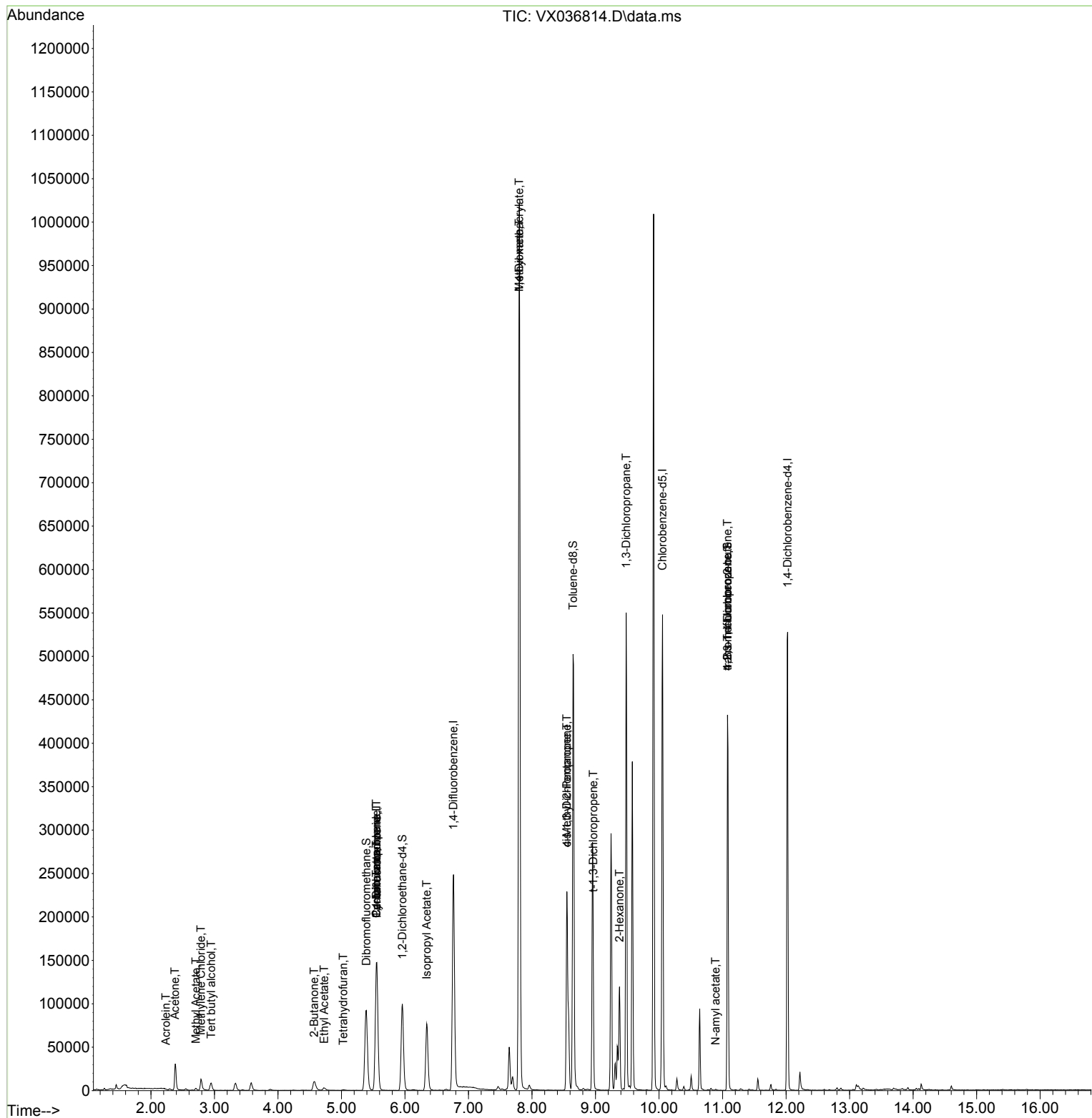
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 137739   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 253154   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 239295   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 108321   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 97331    | 47.757   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 95.520%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 82770    | 47.568   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 95.140%  |
| 50) Toluene-d8                | 8.646  | 98    | 305553   | 49.518   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 99.040%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 117810   | 50.605   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 101.200% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 2.946  | 59    | 5396     | 11.183   | ug/l # | 81       |
| 13) Acrolein                  | 2.233  | 56    | 121      | 0.439    | ug/l # | 14       |
| 16) Acetone                   | 2.379  | 43    | 34025    | 40.232   | ug/l   | 96       |
| 18) Methyl Acetate            | 2.709  | 43    | 2764     | 0.777    | ug/l   | 99       |
| 20) Methylene Chloride        | 2.788  | 84    | 6605     | 3.512    | ug/l   | 92       |
| 25) 2-Butanone                | 4.568  | 43    | 15523    | 11.313   | ug/l   | 99       |
| 29) Tetrahydrofuran           | 5.025  | 42    | 337      | 0.381    | ug/l # | 72       |
| 31) Cyclohexane               | 5.549  | 56    | 3300     | 1.169    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.549  | 75    | 11739    | 4.526    | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.726  | 43    | 5075     | 1.729    | ug/l   | 99       |
| 38) Carbon Tetrachloride      | 5.549  | 117   | 15174    | 5.503    | ug/l # | 14       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 105736   | 20.925   | ug/l   | 96       |
| 48) Methyl methacrylate       | 7.799  | 41    | 87169    | 37.094   | ug/l # | 49       |
| 49) 1,4-Dioxane               | 7.799  | 88    | 100      | 2.106    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 117843   | 42.142   | ug/l # | 37       |
| 53) t-1,3-Dichloropropene     | 8.963  | 75    | 673      | 0.206    | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 37969    | 11.000   | ug/l # | 54       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 4906     | 1.482    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378  | 43    | 89988    | 43.361   | ug/l # | 26       |
| 74) N-amyl acetate            | 10.890 | 43    | 1062     | 0.254    | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 61167    | 24.008   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 61167    | 54.414   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

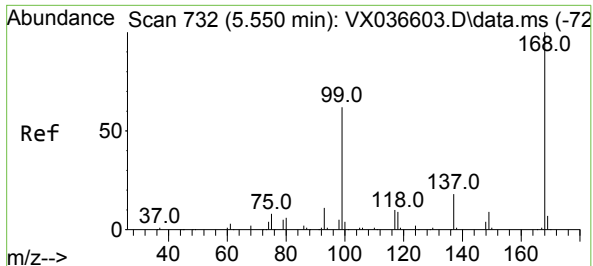
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Jul 21 12:14:12 2023  
Response via : Initial Calibration

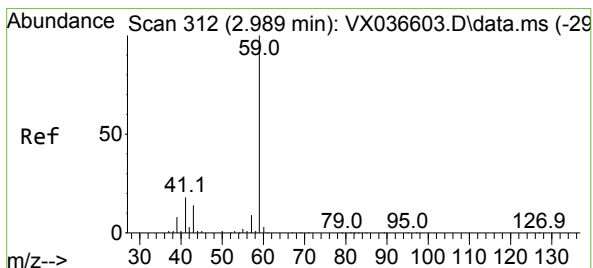
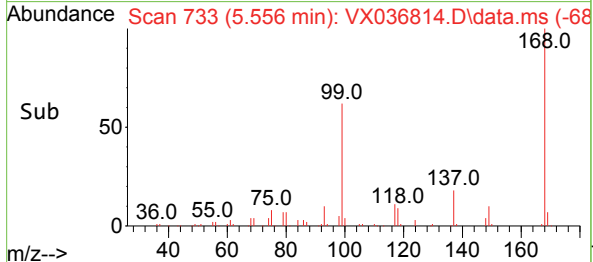
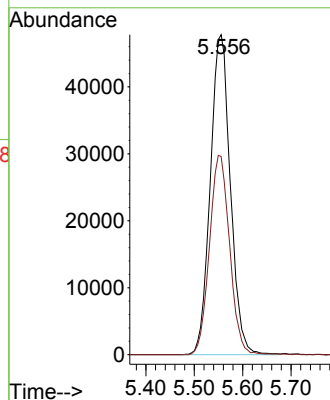
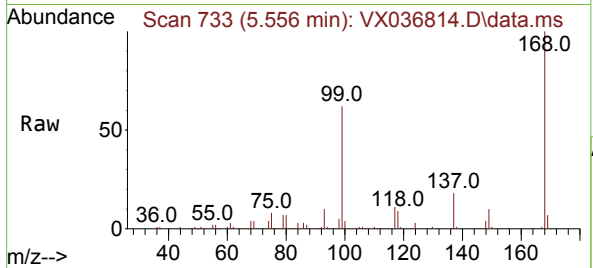




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

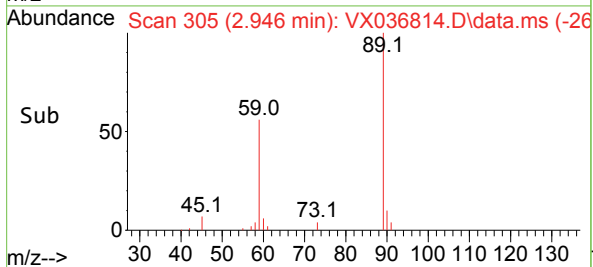
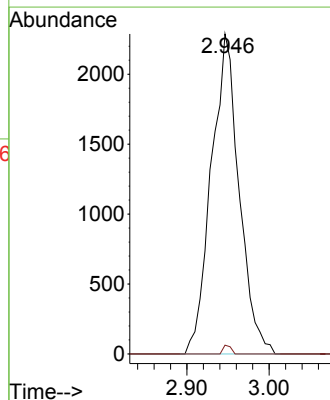
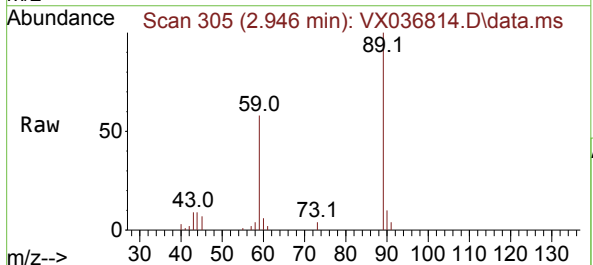
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

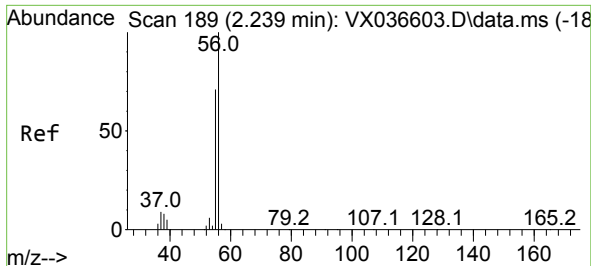
Tgt Ion:168 Resp: 137739  
Ion Ratio Lower Upper  
168 100  
99 61.9 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 11.183 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.043 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 59 Resp: 5396  
Ion Ratio Lower Upper  
59 100  
57 0.8 6.0 9.0#

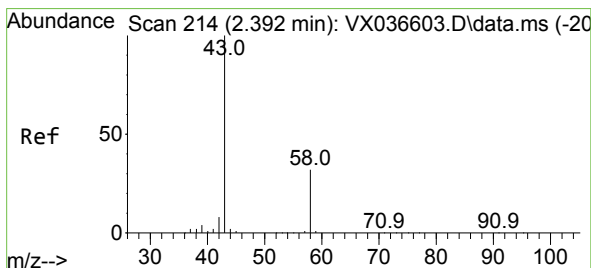
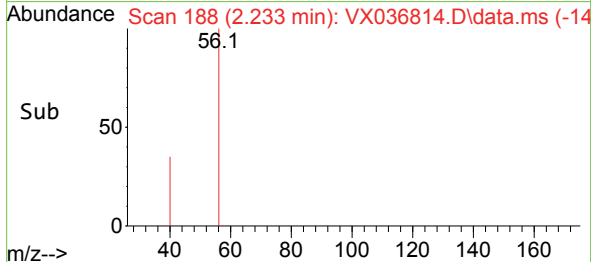
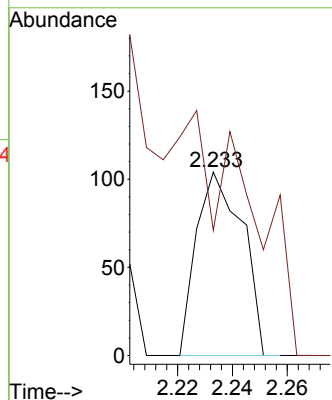
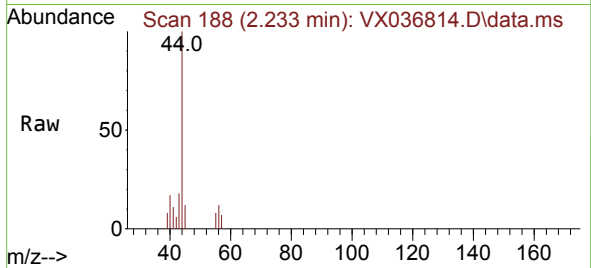




#13  
Acrolein  
Concen: 0.439 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

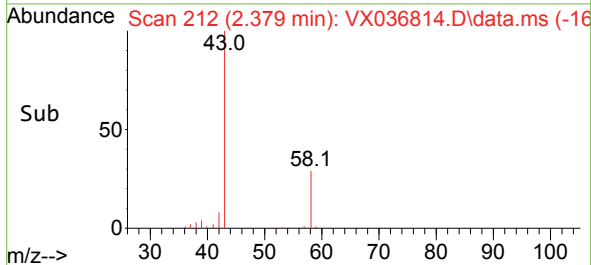
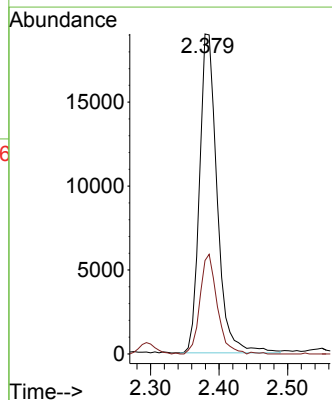
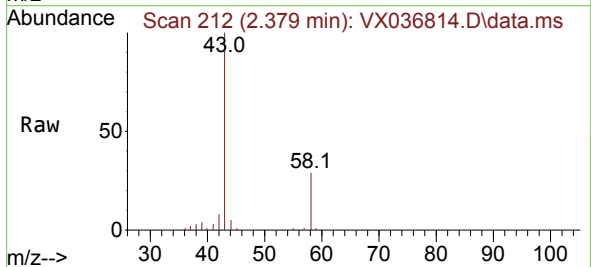
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

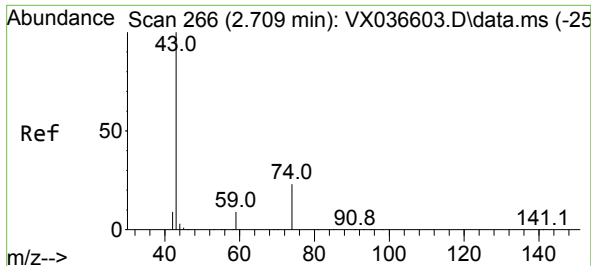
Tgt Ion: 56 Resp: 121  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#16  
Acetone  
Concen: 40.232 ug/l  
RT: 2.379 min Scan# 212  
Delta R.T. -0.012 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 43 Resp: 34025  
Ion Ratio Lower Upper  
43 100  
58 29.3 21.9 32.9

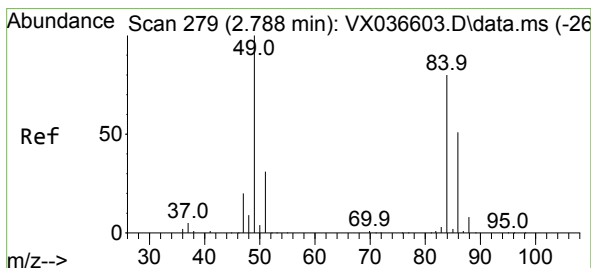
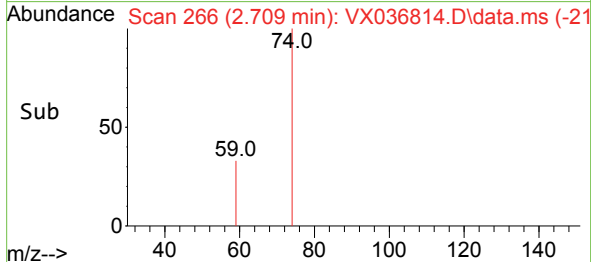
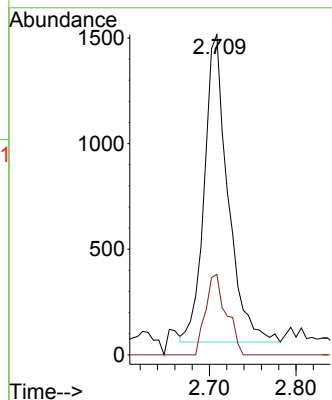
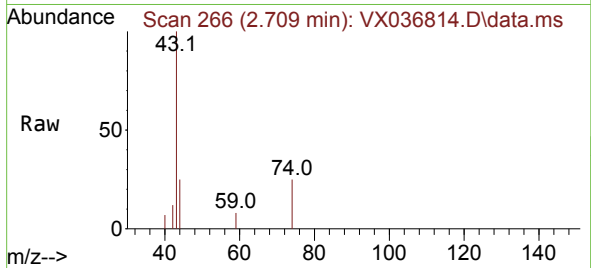




#18  
Methyl Acetate  
Concen: 0.777 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.000 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

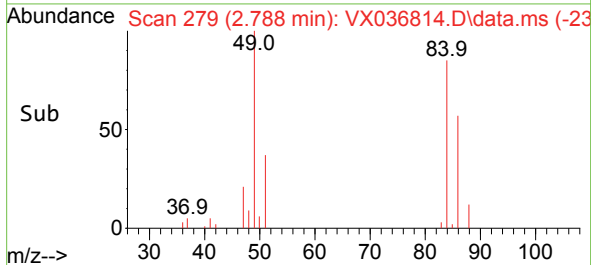
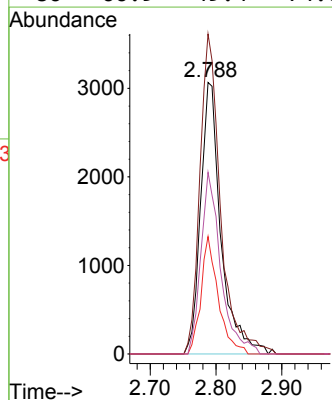
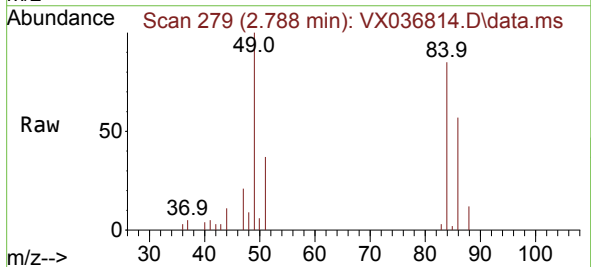
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

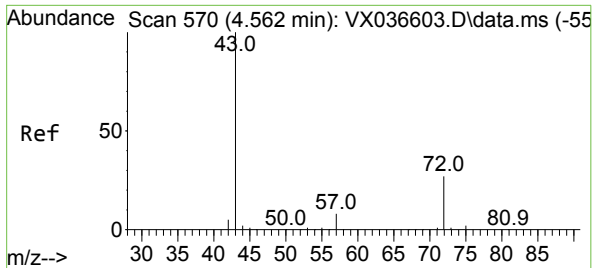
Tgt Ion: 43 Resp: 2764  
Ion Ratio Lower Upper  
43 100  
74 22.9 17.8 26.8



#20  
Methylene Chloride  
Concen: 3.512 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 84 Resp: 6605  
Ion Ratio Lower Upper  
84 100  
49 117.8 103.6 155.4  
51 43.2 33.8 50.6  
86 66.9 49.4 74.0

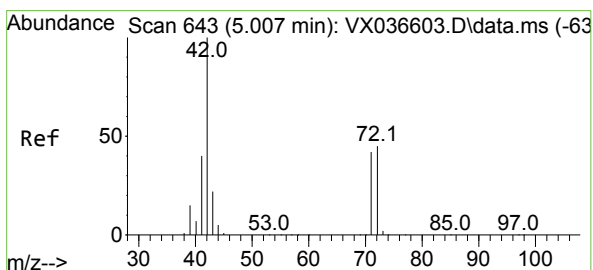
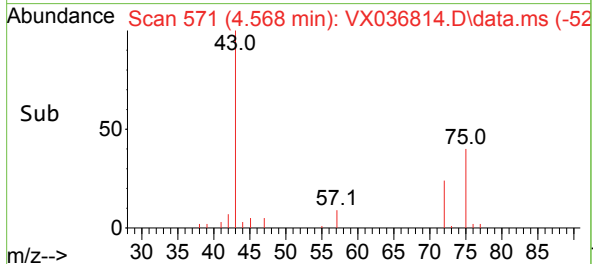
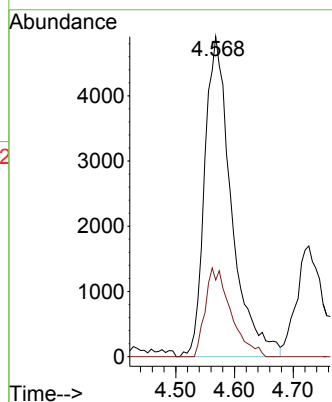
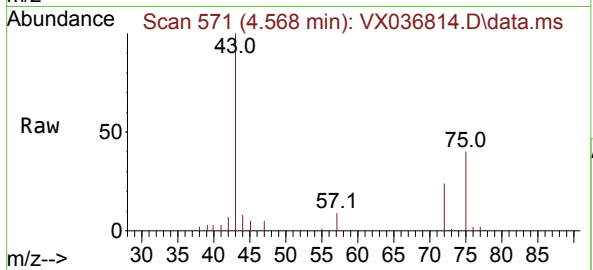




#25  
2-Butanone  
Concen: 11.313 ug/l  
RT: 4.568 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

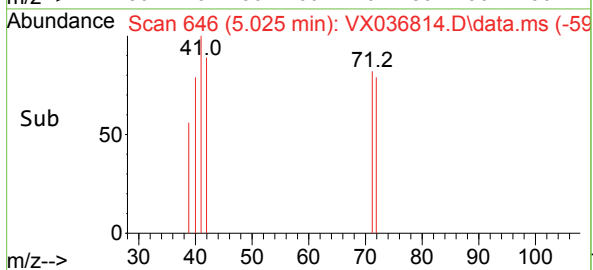
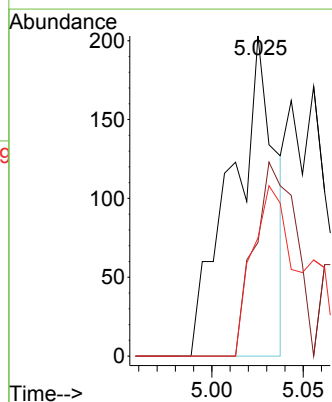
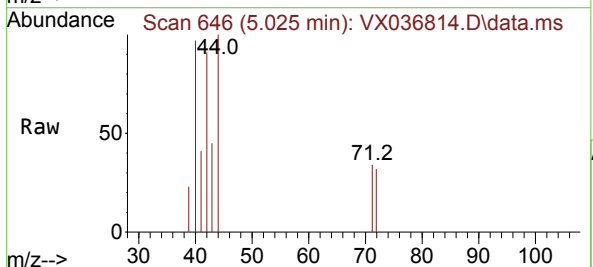
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ClientSampleId :  
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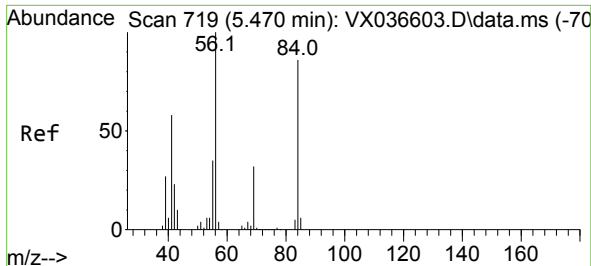
Tgt Ion: 43 Resp: 15523  
Ion Ratio Lower Upper  
43 100  
72 23.9 19.4 29.2



#29  
Tetrahydrofuran  
Concen: 0.381 ug/l  
RT: 5.025 min Scan# 646  
Delta R.T. 0.018 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 42 Resp: 337  
Ion Ratio Lower Upper  
42 100  
72 57.0 34.2 51.4#  
71 61.1 32.2 48.2#

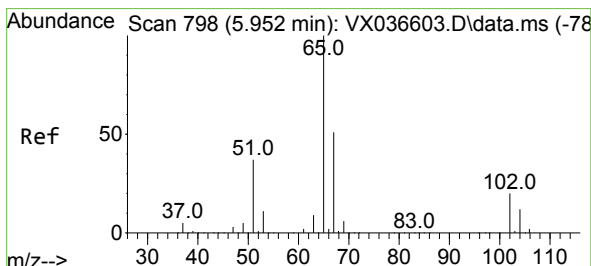
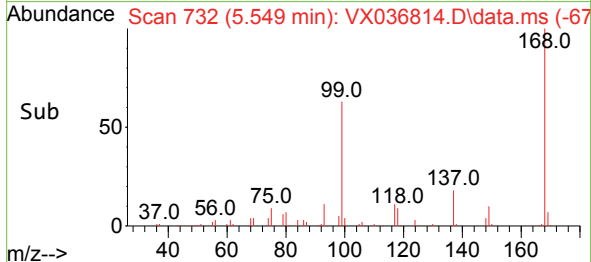
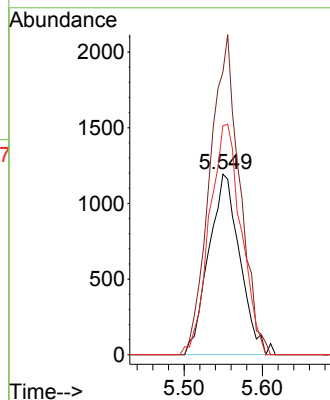
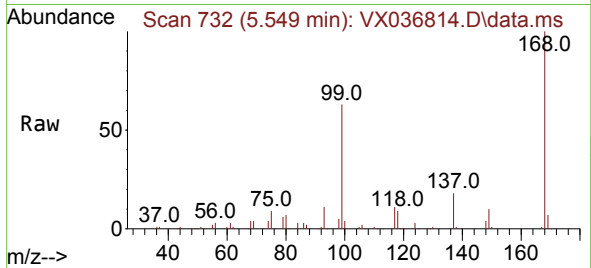




#31  
Cyclohexane  
Concen: 1.169 ug/l  
RT: 5.549 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

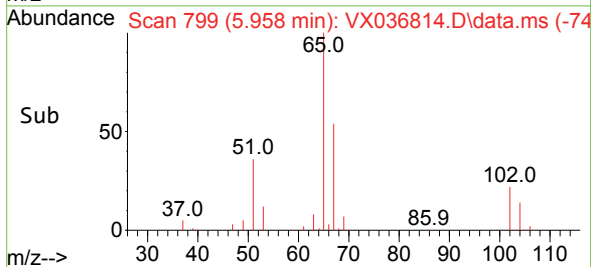
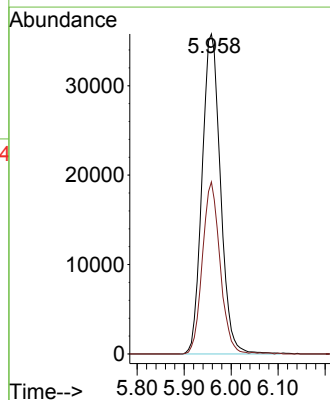
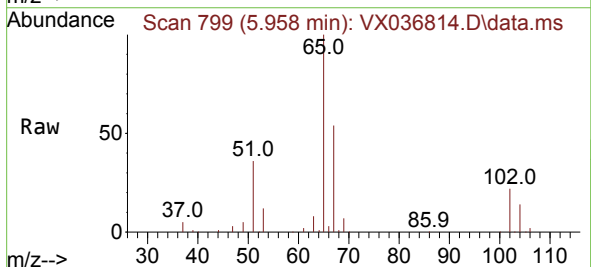
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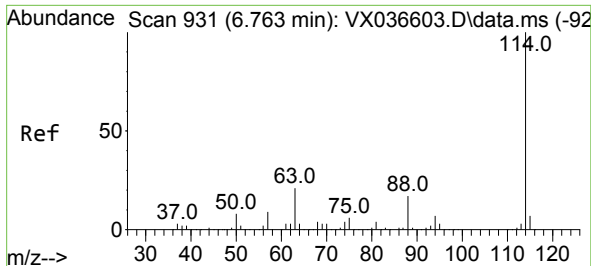
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Ion Ratio Lower Upper  
56 100  
69 156.7 23.4 35.2#  
84 126.8 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 47.757 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 65 Resp: 97331  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 100.2

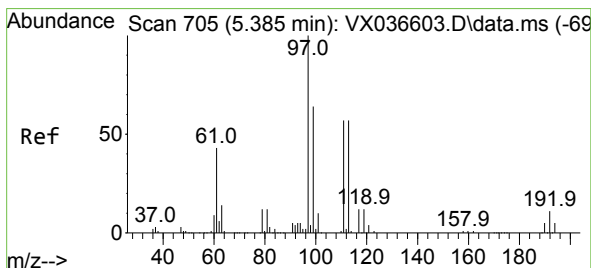
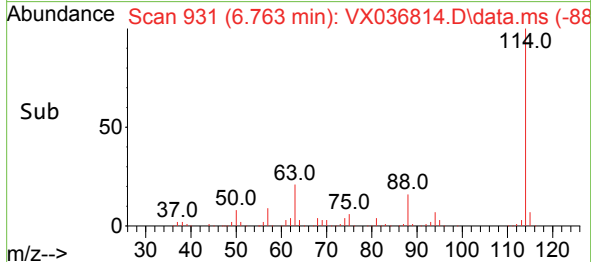
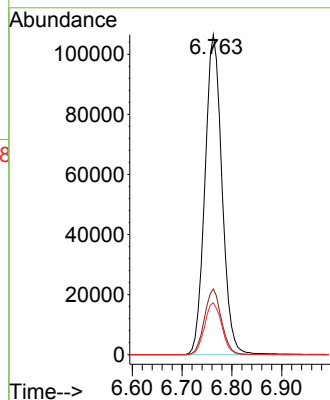
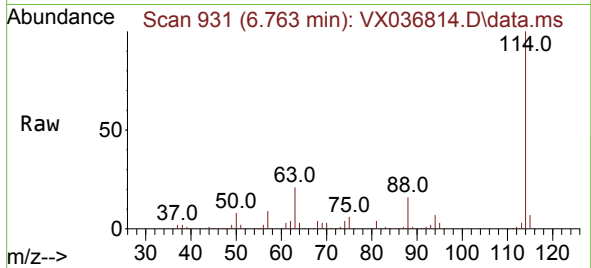




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

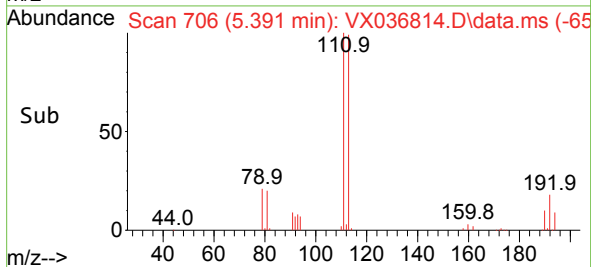
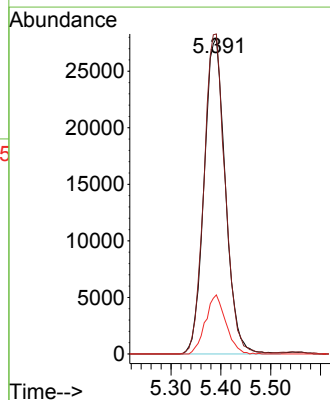
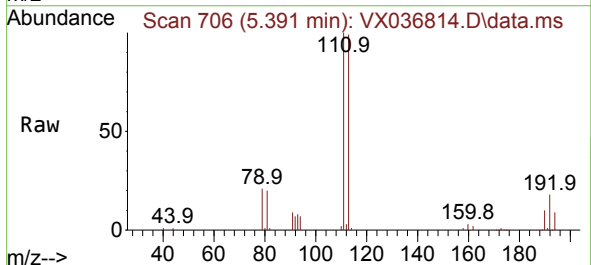
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MSVOA\_X  
ClientSampleId :  
ZHC#12

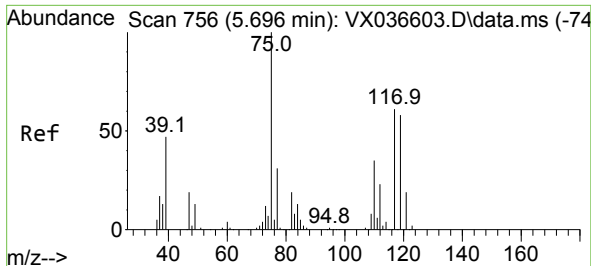
Tgt Ion:114 Resp: 253154  
Ion Ratio Lower Upper  
114 100  
63 20.6 0.0 45.0  
88 16.2 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 47.568 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX036814.D  
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Tgt Ion:113 Resp: 82770  
Ion Ratio Lower Upper  
113 100  
111 100.7 82.9 124.3  
192 17.9 13.3 19.9

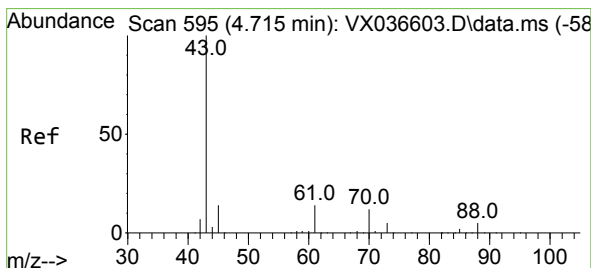
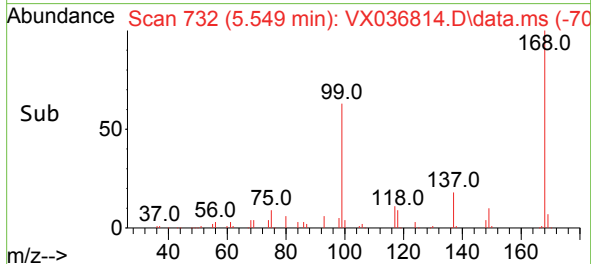
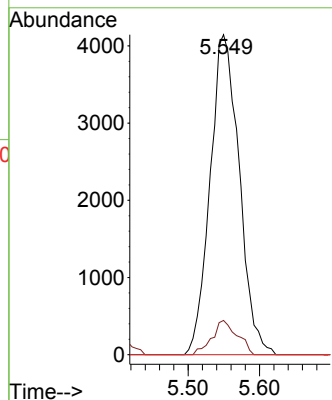
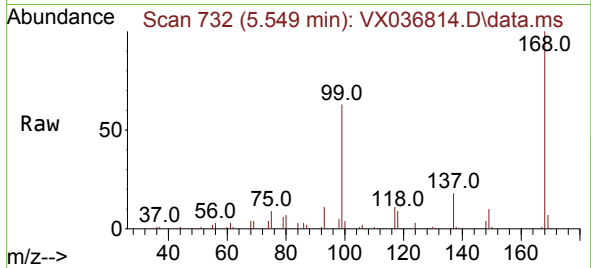




#36  
1,1-Dichloropropene  
Concen: 4.526 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. -0.147 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

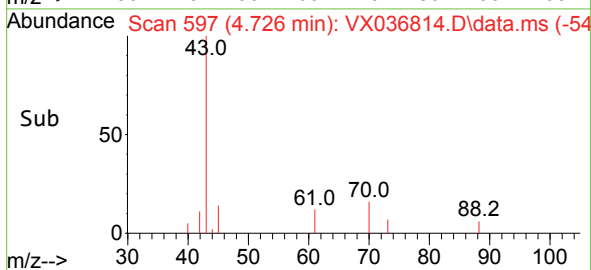
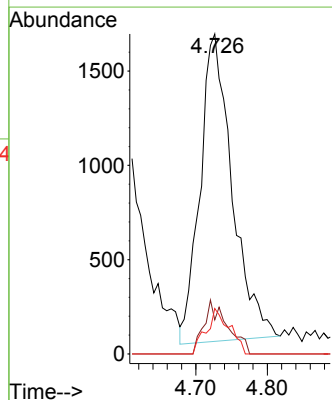
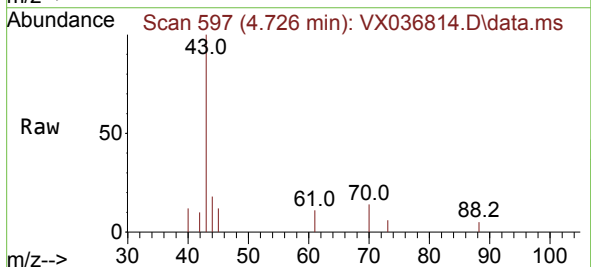
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

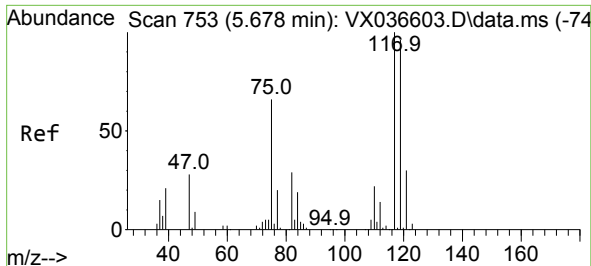
Tgt Ion: 75 Resp: 11739  
Ion Ratio Lower Upper  
75 100  
110 9.3 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 1.729 ug/l  
RT: 4.726 min Scan# 597  
Delta R.T. 0.012 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

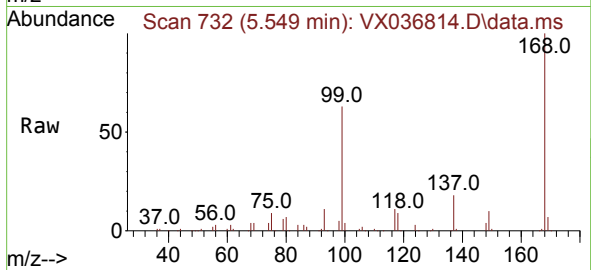
Tgt Ion: 43 Resp: 5075  
Ion Ratio Lower Upper  
43 100  
61 12.9 10.6 16.0  
70 10.7 8.3 12.5



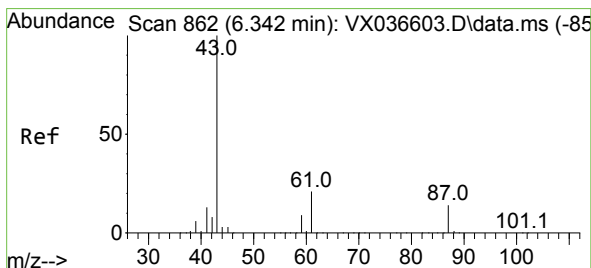
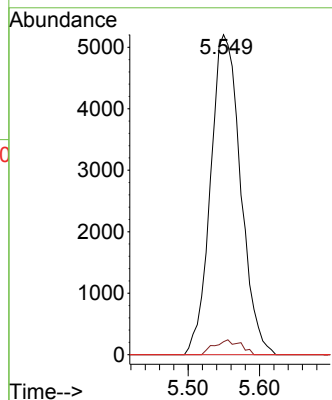
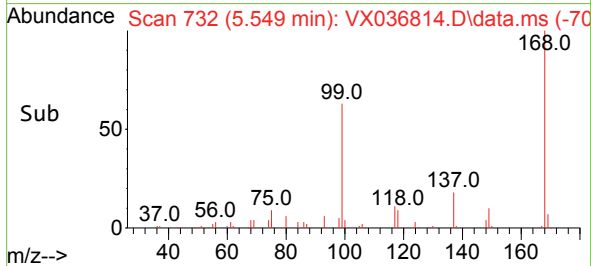


#38  
Carbon Tetrachloride  
Concen: 5.503 ug/l  
RT: 5.549 min Scan# 711  
Delta R.T. -0.128 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

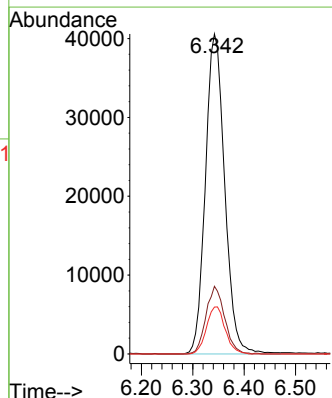
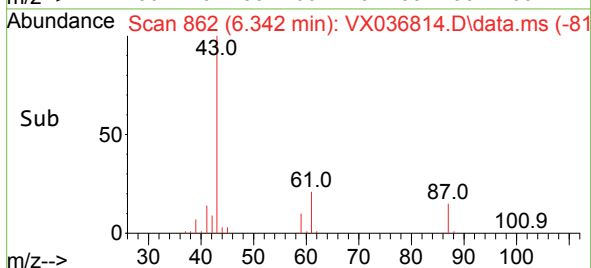
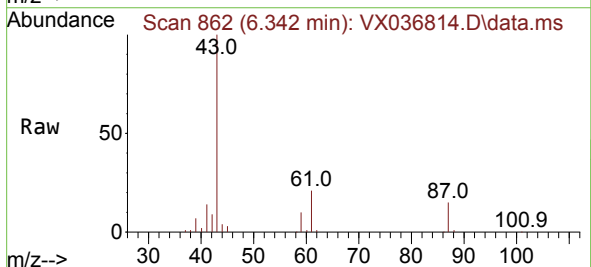


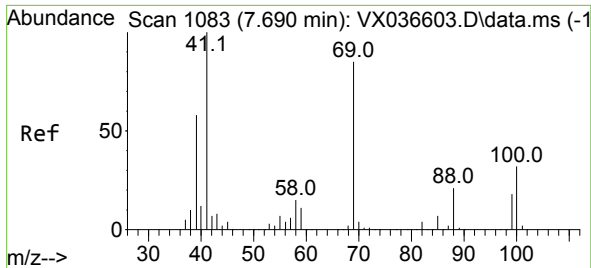
Tgt Ion:117 Resp: 15174  
Ion Ratio Lower Upper  
117 100  
119 4.1 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 20.925 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. -0.000 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 43 Resp: 105736  
Ion Ratio Lower Upper  
43 100  
61 20.4 15.2 22.8  
87 14.3 9.8 14.6

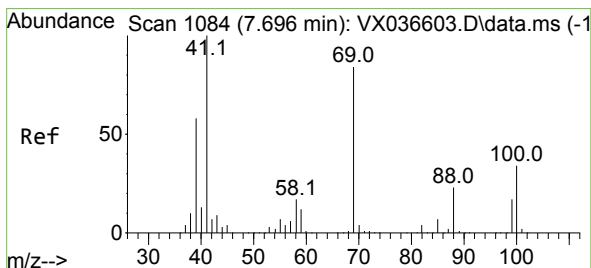
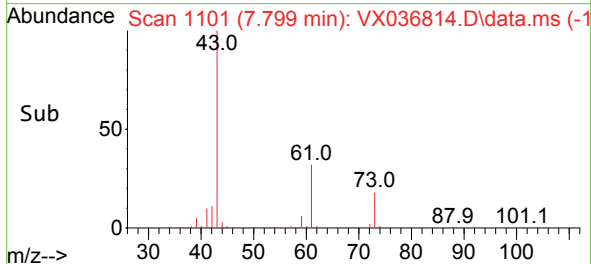
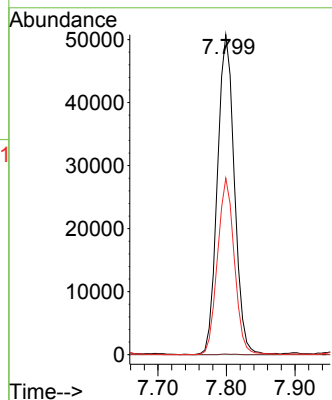
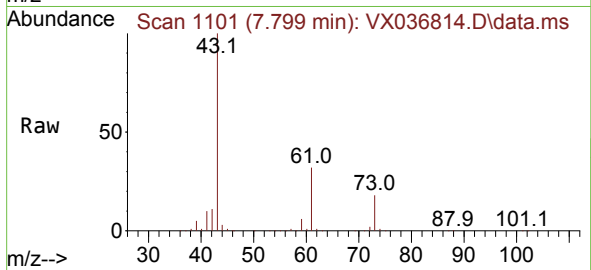




#48  
Methyl methacrylate  
Concen: 37.094 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.109 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

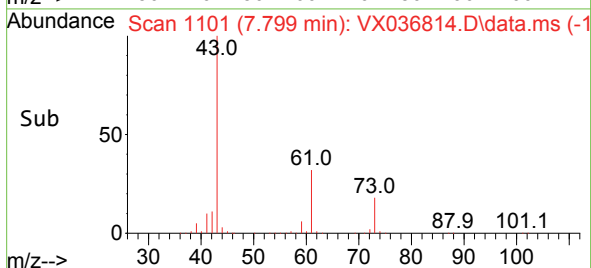
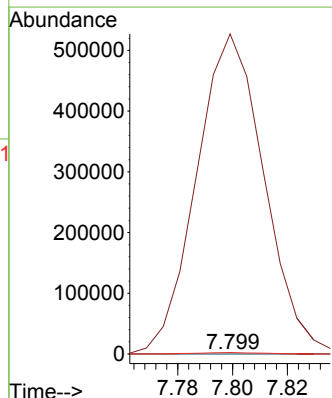
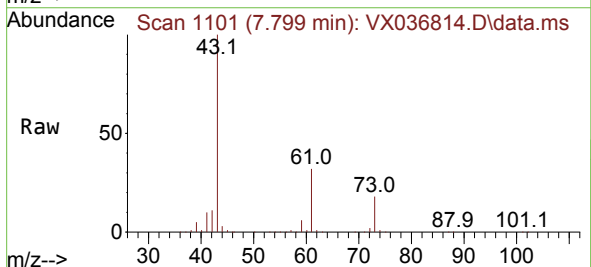
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

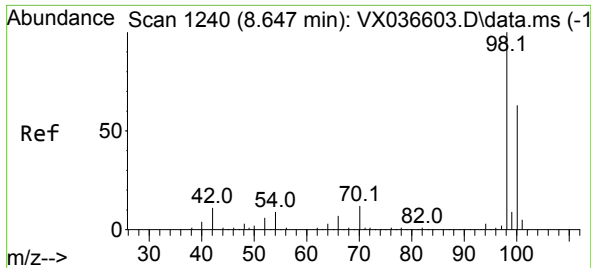
Tgt Ion: 41 Resp: 87169  
Ion Ratio Lower Upper  
41 100  
69 0.2 59.2 88.8#  
39 54.7 47.7 71.5



#49  
1,4-Dioxane  
Concen: 2.106 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.103 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 88 Resp: 100  
Ion Ratio Lower Upper  
88 100  
43 910728.0 0.0 0.0#  
58 3805.0 60.1 90.1#

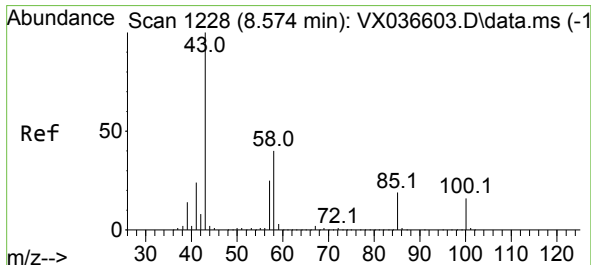
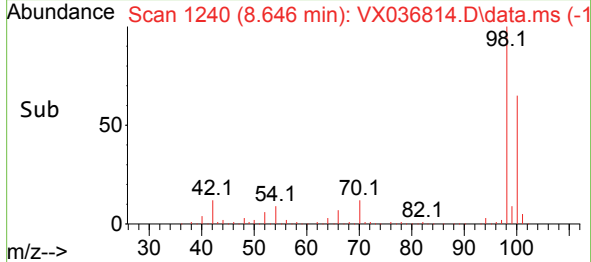
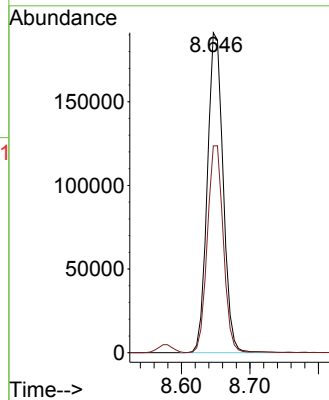
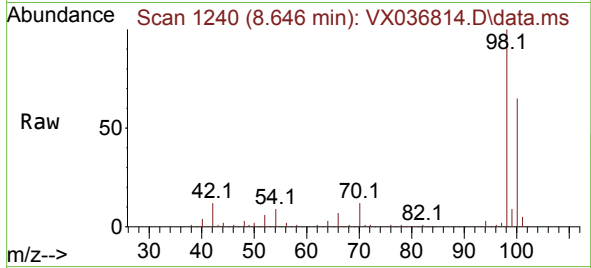




#50  
Toluene-d8  
Concen: 49.518 ug/l  
RT: 8.646 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

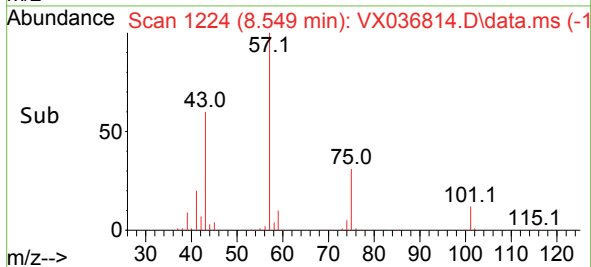
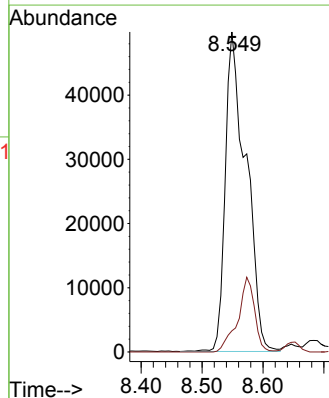
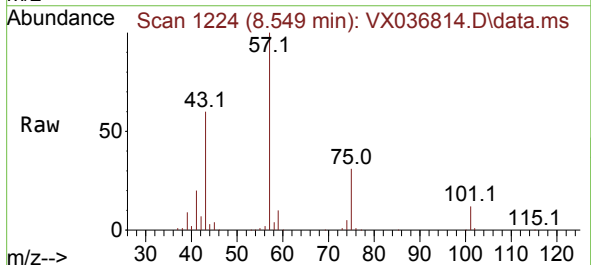
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

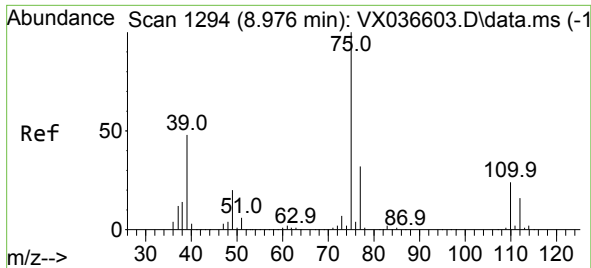
Tgt Ion: 98 Resp: 305553  
Ion Ratio Lower Upper  
98 100  
100 65.3 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 42.142 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.025 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 43 Resp: 117843  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#

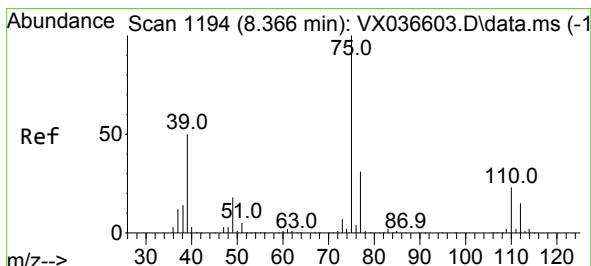
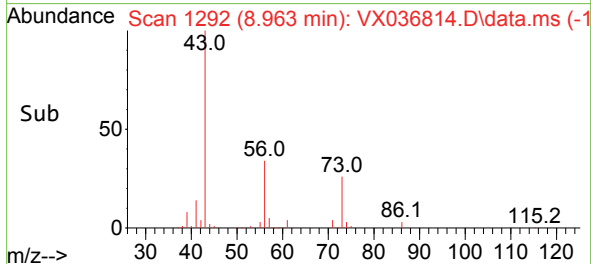
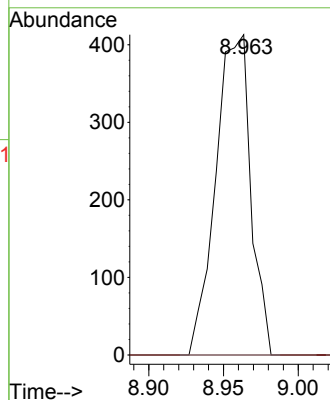
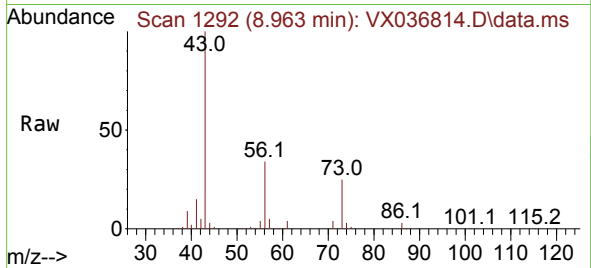




#53  
 t-1,3-Dichloropropene  
 Concen: 0.206 ug/l  
 RT: 8.963 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: VX036814.D  
 Acq: 04 Aug 2023 16:43

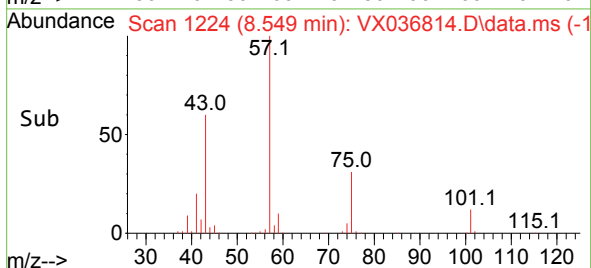
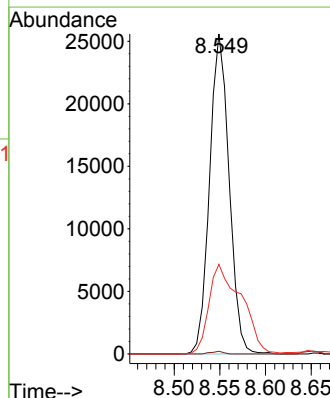
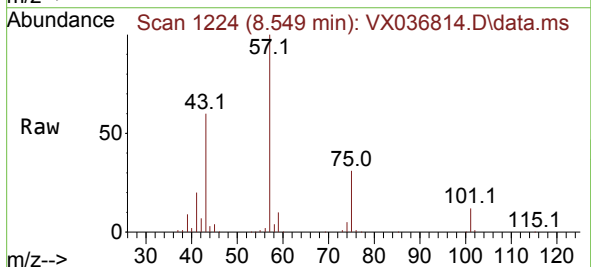
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ZHC#12

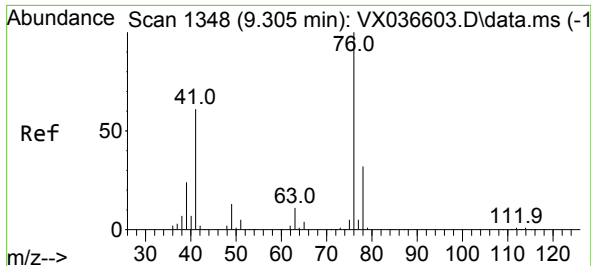
Tgt Ion: 75 Resp: 673  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 11.000 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX036814.D  
 Acq: 04 Aug 2023 16:43

Tgt Ion: 75 Resp: 37969  
 Ion Ratio Lower Upper  
 75 100  
 77 0.8 25.3 37.9#  
 39 28.0 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.482 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX036814.D

Acq: 04 Aug 2023 16:43

Instrument :

MSVOA\_X

ClientSampleId :

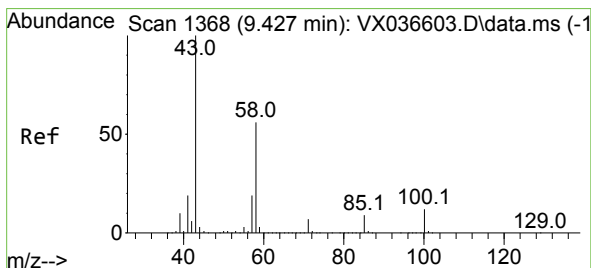
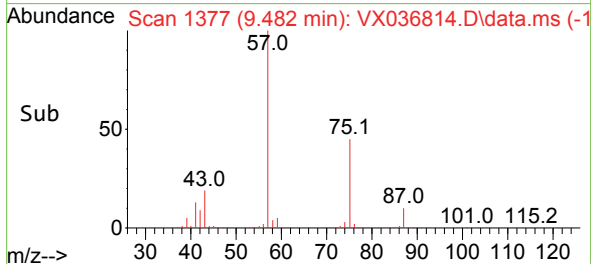
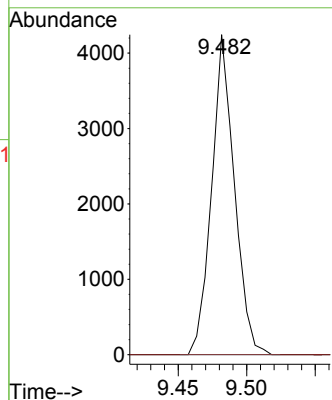
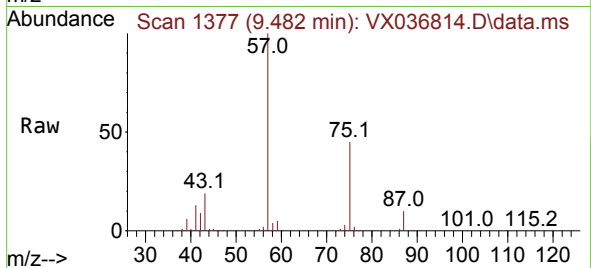
ZHC#12

Tgt Ion: 76 Resp: 4906

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 43.361 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX036814.D

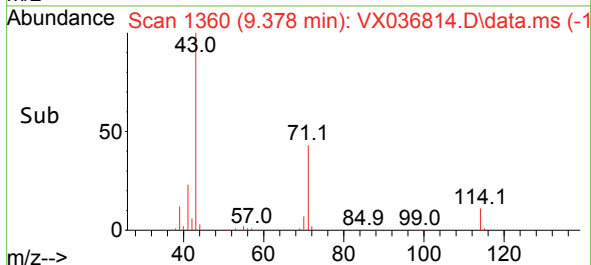
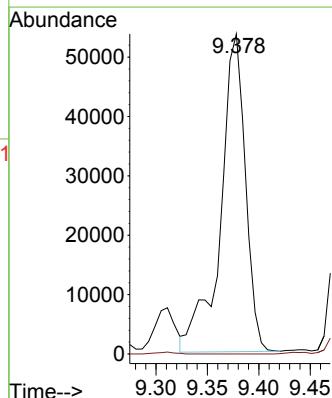
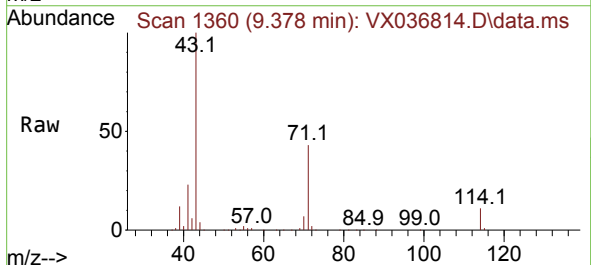
Acq: 04 Aug 2023 16:43

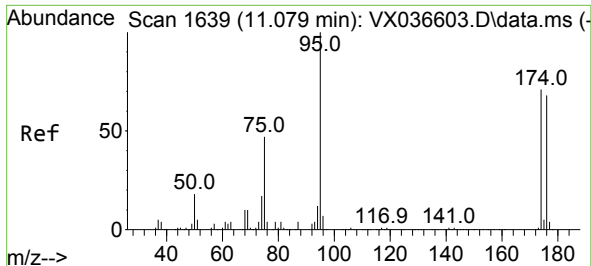
Tgt Ion: 43 Resp: 89988

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#

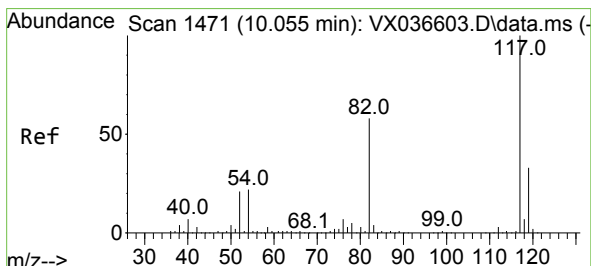
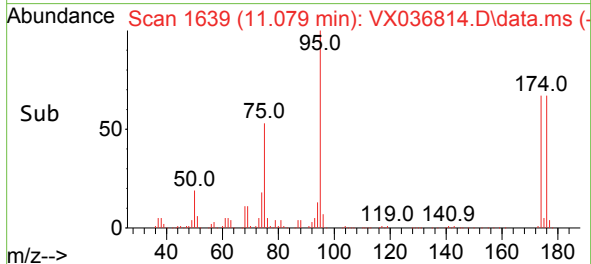
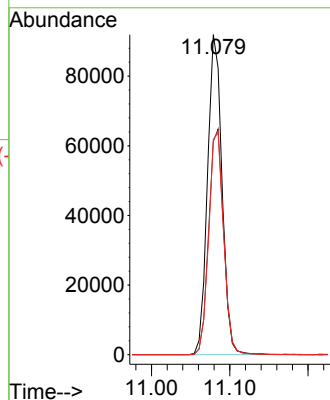
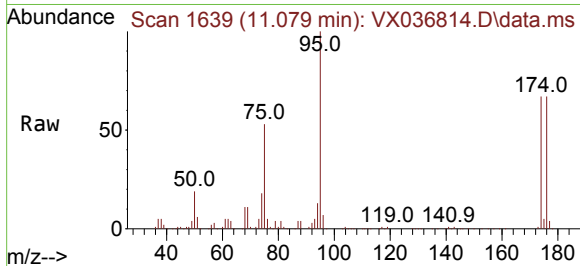




#62  
4-Bromofluorobenzene  
Concen: 50.605 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

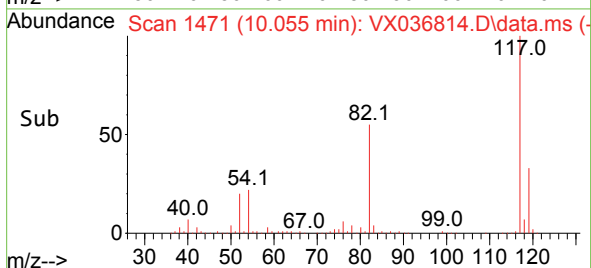
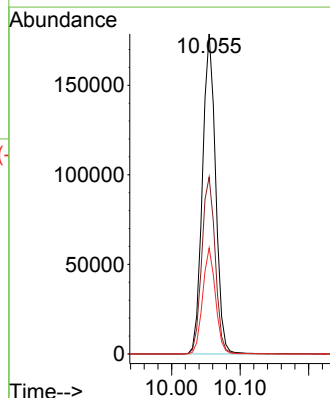
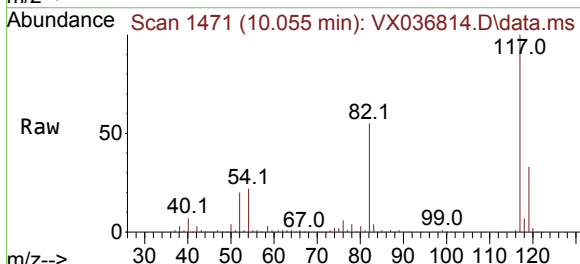
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

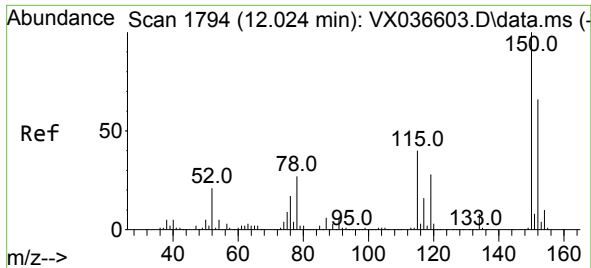
Tgt Ion: 95 Resp: 117810  
Ion Ratio Lower Upper  
95 100  
174 72.6 0.0 135.6  
176 71.3 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 117 Resp: 239295  
Ion Ratio Lower Upper  
117 100  
82 55.3 46.2 69.4  
119 33.1 25.5 38.3

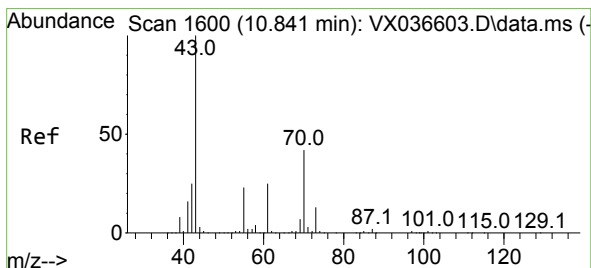
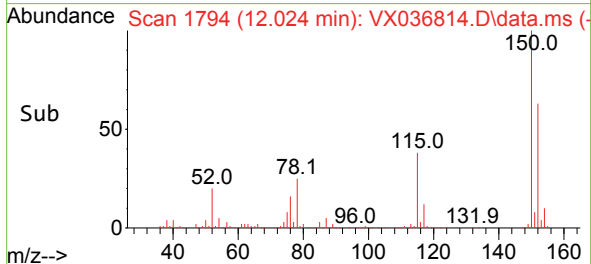
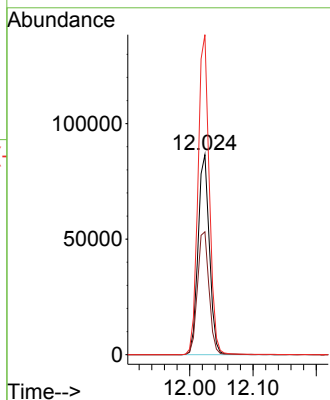
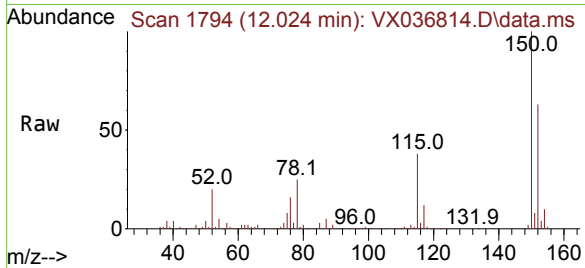




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

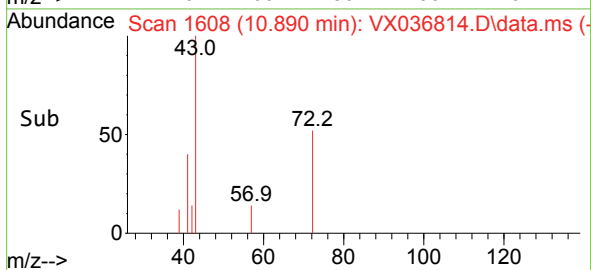
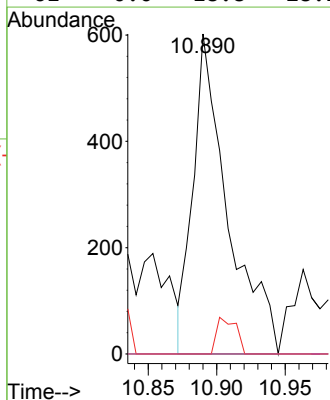
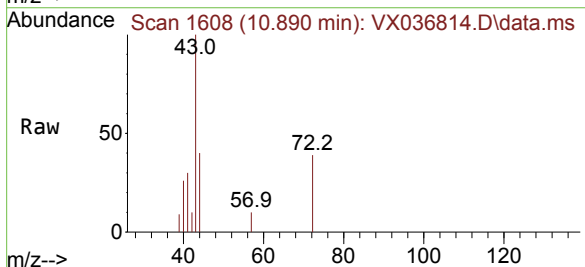
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

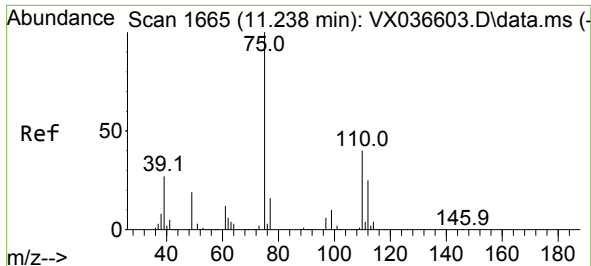
Tgt Ion:152 Resp: 108321  
Ion Ratio Lower Upper  
152 100  
115 62.7 43.3 129.9  
150 159.1 0.0 345.0



#74  
N-ethyl acetate  
Concen: 0.254 ug/l  
RT: 10.890 min Scan# 1608  
Delta R.T. 0.049 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 43 Resp: 1062  
Ion Ratio Lower Upper  
43 100  
70 0.0 32.9 49.3#  
55 6.3 19.3 28.9#  
61 0.0 18.8 28.2#

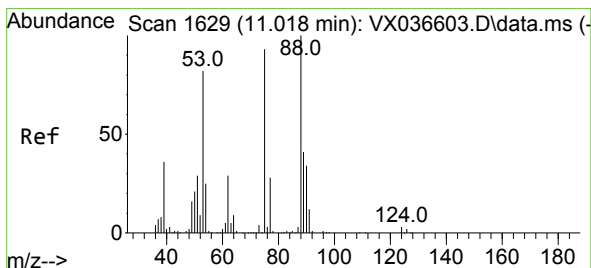
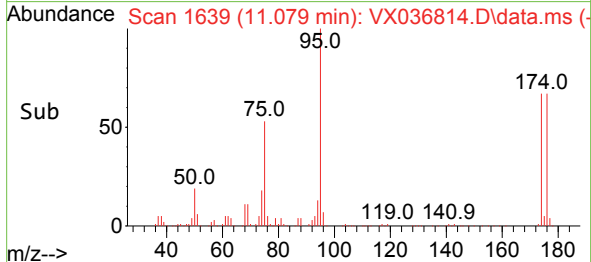
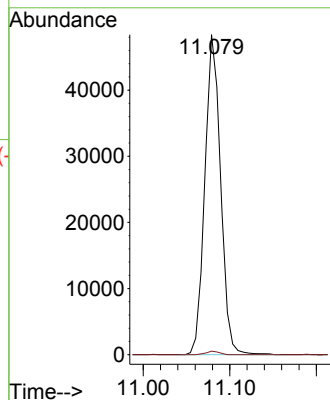
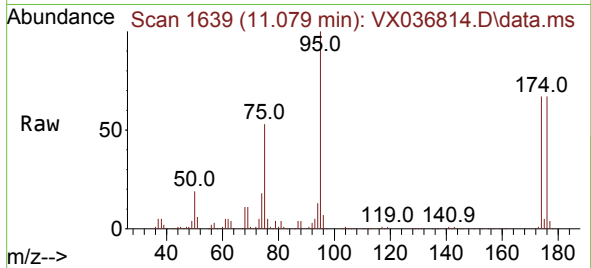




#76  
1,2,3-Trichloropropane  
Concen: 24.008 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
ZHC#12

Tgt Ion: 75 Resp: 61167  
Ion Ratio Lower Upper  
75 100  
77 0.9 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 54.414 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX036814.D  
Acq: 04 Aug 2023 16:43

Tgt Ion: 75 Resp: 61167  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

