

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU102623\  
 Data File : VU055912.D  
 Acq On : 26 Oct 2023 18:00  
 Operator : MD/SY  
 Sample : 04961-09MEMS  
 Misc : 5.96g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E0LJ3MEMS

Quant Time: Oct 27 02:53:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM101023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 27 02:48:43 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245   | 114   | 595083   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.418   | 117   | 617327   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.811  | 152   | 335568   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596   | 65    | 211868   | 39.693   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 79.380%  |
| 7) Chloroethane-d5            | 1.869   | 69    | 64797    | 14.851   | ug/L   | -0.04    |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 29.700%# |
| 11) 1,1-Dichloroethene-d2     | 2.541   | 63    | 367812   | 38.646   | ug/L   | -0.03    |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 77.300%  |
| 21) 2-Butanone-d5             | 4.628   | 46    | 267890   | 67.732   | ug/L   | 0.01     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 67.730%  |
| 24) Chloroform-d              | 5.055   | 84    | 411799   | 40.243   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 80.480%  |
| 26) 1,2-Dichloroethane-d4     | 5.692   | 65    | 257391   | 40.866   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 81.740%  |
| 32) Benzene-d6                | 5.718   | 84    | 824949   | 41.766   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 83.540%  |
| 36) 1,2-Dichloropropane-d6    | 6.685   | 67    | 261656   | 41.845   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 83.680%  |
| 41) Toluene-d8                | 7.894   | 98    | 762043   | 42.727   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 85.460%  |
| 43) trans-1,3-Dichloroprop... | 8.177   | 79    | 127942   | 42.594   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 85.180%  |
| 47) 2-Hexanone-d5             | 8.647   | 63    | 259792   | 105.684  | ug/L   | 0.02     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 105.680% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.759  | 84    | 422499   | 43.897   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 87.800%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.193  | 152   | 319649   | 48.001   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.000%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.377   | 85    | 185384   | 37.414   | ug/L   | 99       |
| 3) Chloromethane              | 1.518   | 50    | 200282   | 42.718   | ug/L   | 96       |
| 5) Vinyl chloride             | 1.602   | 62    | 218874   | 42.420   | ug/L   | 96       |
| 6) Bromomethane               | 1.824   | 94    | 50252    | 15.235   | ug/L   | 94       |
| 8) Chloroethane               | 1.888   | 64    | 50458    | 14.909   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.088   | 101   | 295511   | 40.086   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.551   | 101   | 195414   | 41.218   | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.554   | 96    | 182647   | 43.294   | ug/L   | 95       |
| 13) Acetone                   | 2.634   | 43    | 232967   | 63.473   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.766   | 76    | 488215   | 38.027   | ug/L   | 98       |
| 15) Methyl Acetate            | 2.943   | 43    | 211850   | 37.689   | ug/L   | 95       |
| 16) Methylene chloride        | 3.030   | 84    | 232088   | 45.364   | ug/L   | 94       |
| 17) trans-1,2-Dichloroethene  | 3.335   | 96    | 193024   | 44.744   | ug/L   | 93       |
| 18) Methyl tert-butyl Ether   | 3.361   | 73    | 682456   | 49.191   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.853   | 63    | 391167   | 44.216   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.657   | 96    | 248954   | 50.564   | ug/L   | 94       |
| 22) 2-Butanone                | 4.705   | 43    | 320965   | 72.553   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.968   | 128   | 118196   | 46.354   | ug/L   | 93       |
| 25) Chloroform                | 5.081   | 83    | 422987   | 45.769   | ug/L   | 99       |

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 Sample : 04961-09MEMS  
 Misc : 5.96g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 22 Sample Multiplier: 1

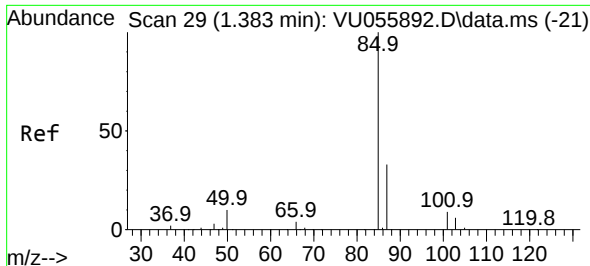
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E0LJ3MEMS

Quant Time: Oct 27 02:53:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM101023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 27 02:48:43 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.788  | 62   | 322195   | 43.590  | ug/L  | 100      |
| 29) Cyclohexane               | 5.374  | 56   | 327907   | 46.341  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 5.306  | 97   | 346874   | 43.492  | ug/L  | 97       |
| 31) Carbon tetrachloride      | 5.512  | 117  | 293921   | 42.103  | ug/L  | 98       |
| 33) Benzene                   | 5.763  | 78   | 883266   | 45.263  | ug/L  | 100      |
| 34) Trichloroethene           | 6.534  | 95   | 296718   | 55.571  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.753  | 83   | 356856   | 46.064  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 242486   | 45.126  | ug/L  | 98       |
| 38) Bromodichloromethane      | 7.103  | 83   | 309646   | 43.697  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 393760   | 48.166  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.811  | 43   | 639867   | 85.595  | ug/L  | 95       |
| 42) Toluene                   | 7.965  | 91   | 973874   | 47.296  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.209  | 75   | 369456   | 47.233  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.399  | 97   | 251185   | 47.406  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.547  | 164  | 787050   | 205.879 | ug/L  | 98       |
| 48) 2-Hexanone                | 8.698  | 43   | 515353   | 81.617  | ug/L  | 96       |
| 49) Dibromochloromethane      | 8.811  | 129  | 249018   | 45.996  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.923  | 107  | 260824   | 45.830  | ug/L  | 97       |
| 51) Chlorobenzene             | 9.447  | 112  | 637985   | 47.888  | ug/L  | 98       |
| 52) Ethylbenzene              | 9.570  | 91   | 1107542  | 49.198  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.695  | 106  | 423409   | 50.204  | ug/L  | 96       |
| 54) o-Xylene                  | 10.100 | 106  | 422102   | 51.720  | ug/L  | 95       |
| 55) Styrene                   | 10.116 | 104  | 743845   | 53.802  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.785 | 83   | 437408   | 48.212  | ug/L  | 100      |
| 59) Bromoform                 | 10.296 | 173  | 202539   | 49.030  | ug/L  | 98       |
| 60) 1,2,3-Trichloropropane    | 10.824 | 75   | 342578   | 47.039  | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.486 | 105  | 1138990  | 54.446  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 975026   | 57.600  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.467 | 105  | 970862   | 58.003  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.746 | 146  | 525740   | 50.838  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.836 | 146  | 528970   | 49.751  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.213 | 146  | 526431   | 51.296  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.994 | 75   | 87090    | 39.999  | ug/L  | 90       |
| 69) 1,3,5-Trichlorobenzene    | 13.216 | 180  | 363573   | 52.707  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 316150   | 55.024  | ug/L  | 99       |
| 71) Naphthalene               | 14.084 | 128  | 964722   | 56.523  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 315523   | 55.698  | ug/L  | 97       |

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

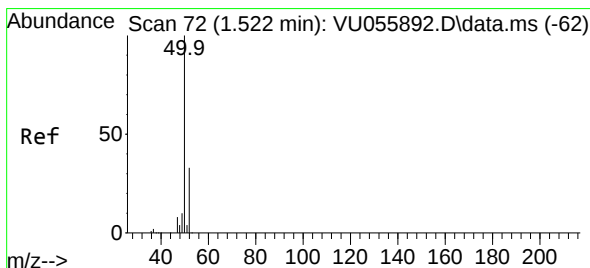
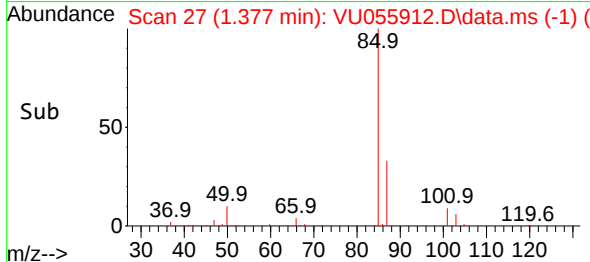
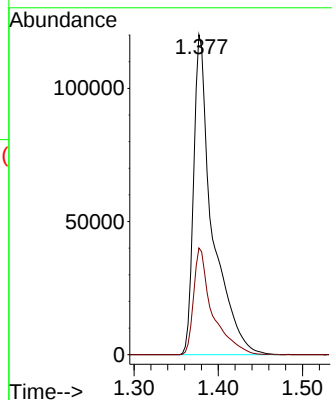
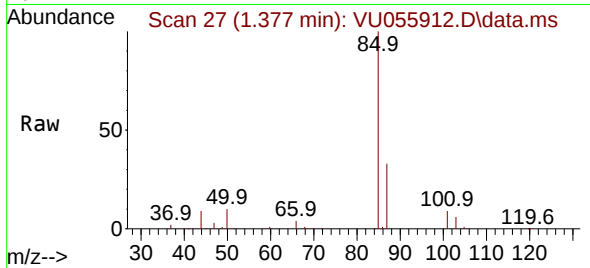




#2  
 Dichlorodifluoromethane  
 Concen: 37.414 ug/L  
 RT: 1.377 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VU055912.D  
 Acq: 26 Oct 2023 18:00

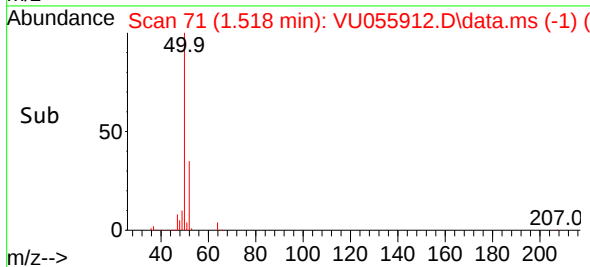
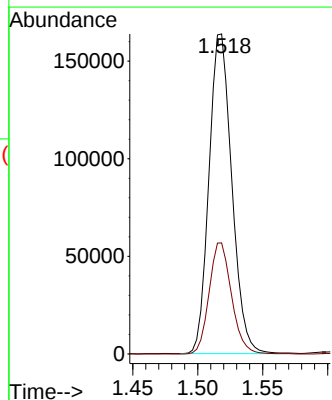
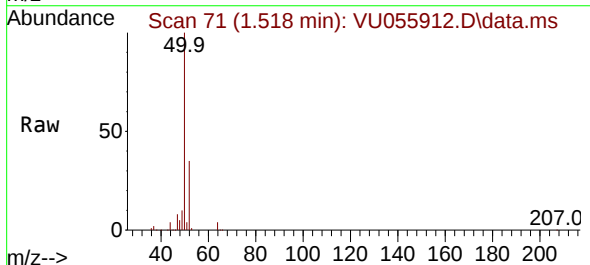
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E0LJ3MEMS

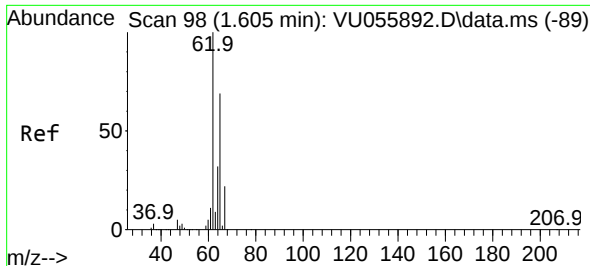
Tgt Ion: 85 Resp: 185384  
 Ion Ratio Lower Upper  
 85 100  
 87 33.2 26.0 39.0



#3  
 Chloromethane  
 Concen: 42.718 ug/L  
 RT: 1.518 min Scan# 71  
 Delta R.T. -0.003 min  
 Lab File: VU055912.D  
 Acq: 26 Oct 2023 18:00

Tgt Ion: 50 Resp: 200282  
 Ion Ratio Lower Upper  
 50 100  
 52 34.7 22.8 42.4

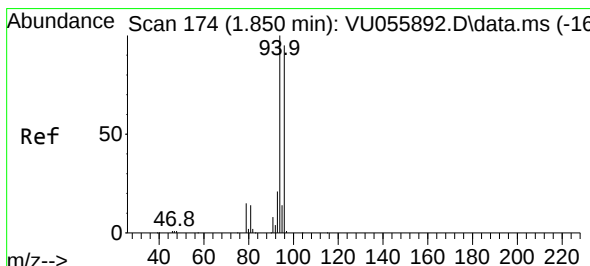
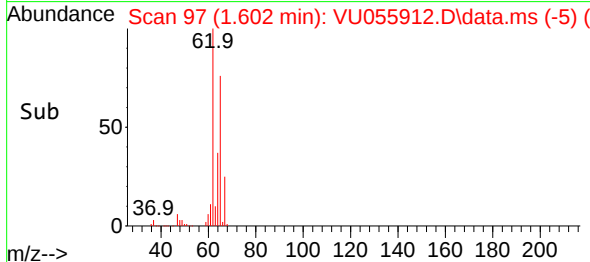
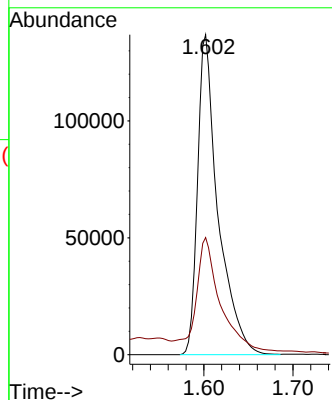
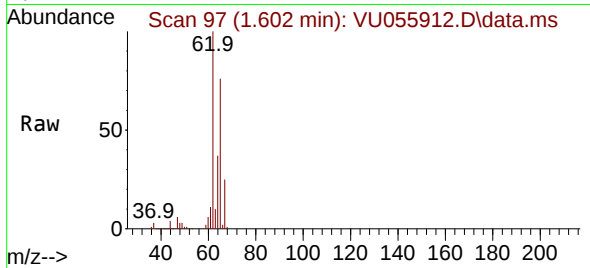




#5  
 Vinyl chloride  
 Concen: 42.420 ug/L  
 RT: 1.602 min Scan# 91  
 Delta R.T. -0.003 min  
 Lab File: VU055912.D  
 Acq: 26 Oct 2023 18:00

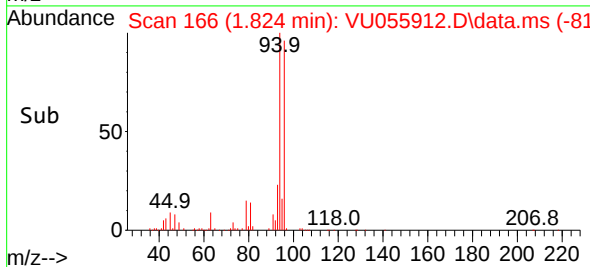
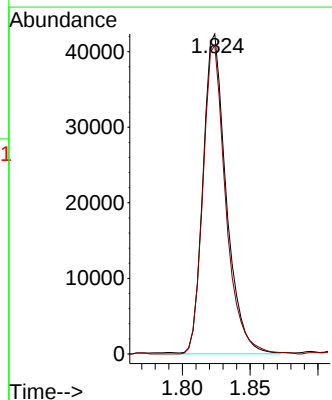
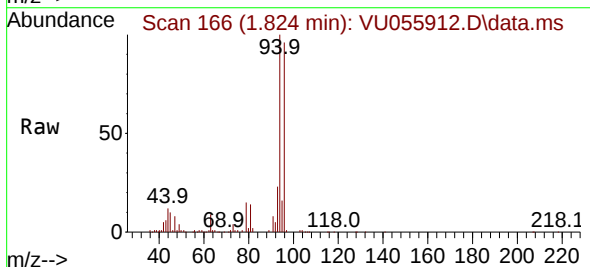
Instrument :  
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 ClientSampleId :  
 E0LJ3MEMS

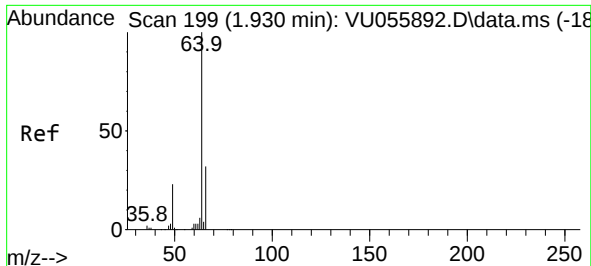
Tgt Ion: 62 Resp: 218874  
 Ion Ratio Lower Upper  
 62 100  
 64 36.6 23.9 44.5



#6  
 Bromomethane  
 Concen: 15.235 ug/L  
 RT: 1.824 min Scan# 166  
 Delta R.T. -0.026 min  
 Lab File: VU055912.D  
 Acq: 26 Oct 2023 18:00

Tgt Ion: 94 Resp: 50252  
 Ion Ratio Lower Upper  
 94 100  
 96 96.5 63.5 117.9

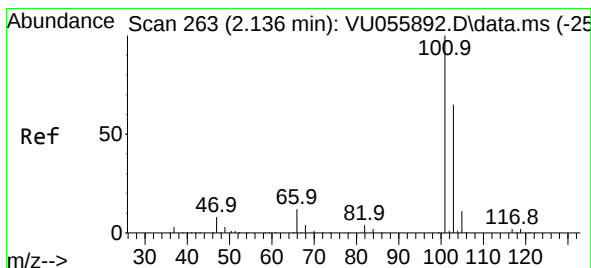
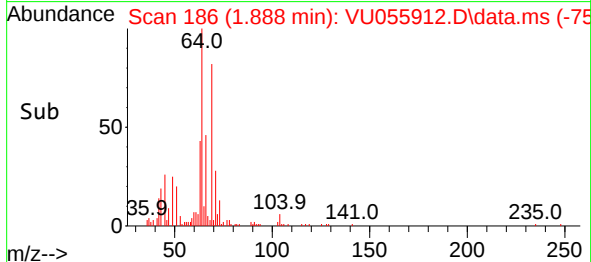
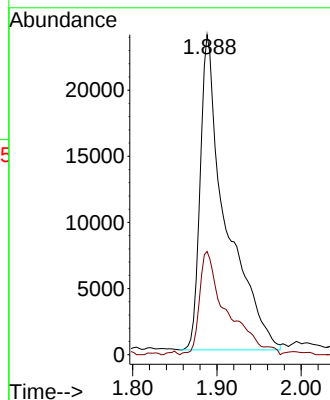
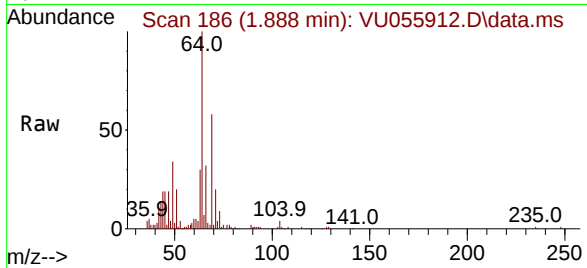




#8  
Chloroethane  
Concen: 14.909 ug/L  
RT: 1.888 min Scan# 11  
Delta R.T. -0.042 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

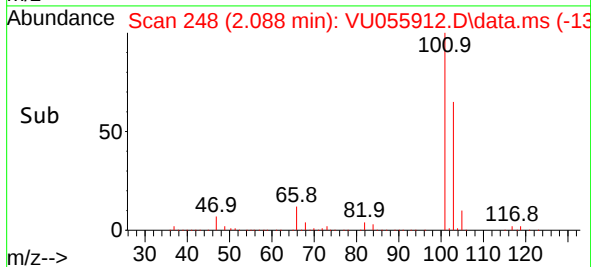
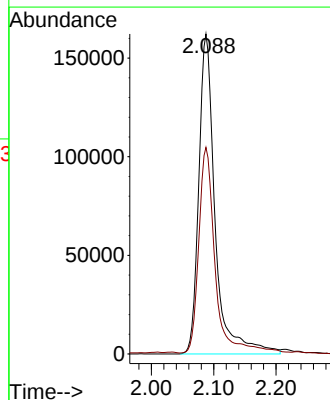
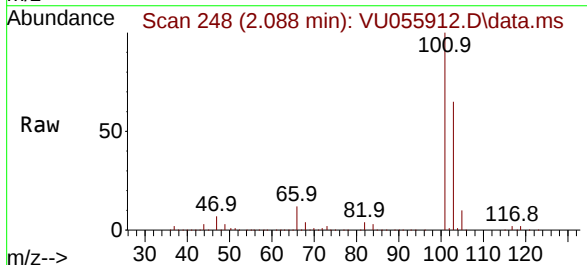
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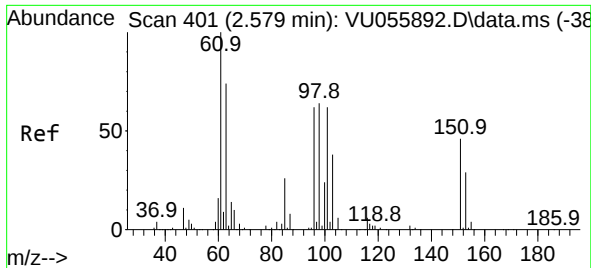
Tgt Ion: 64 Resp: 50458  
Ion Ratio Lower Upper  
64 100  
66 32.3 22.9 42.5



#9  
Trichlorofluoromethane  
Concen: 40.086 ug/L  
RT: 2.088 min Scan# 248  
Delta R.T. -0.048 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion:101 Resp: 295511  
Ion Ratio Lower Upper  
101 100  
103 64.2 51.3 76.9

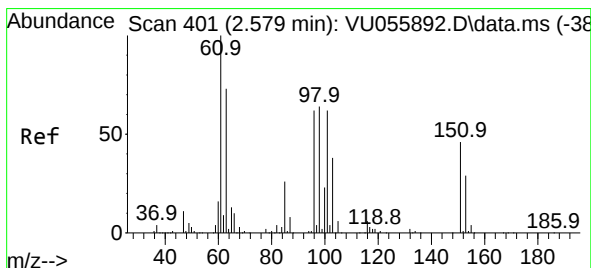
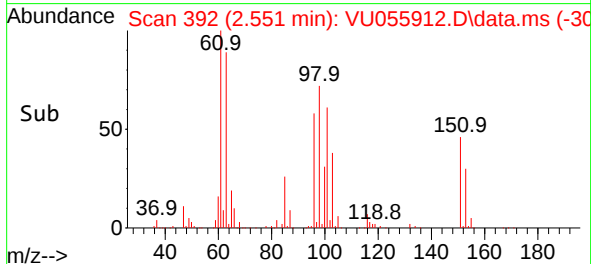
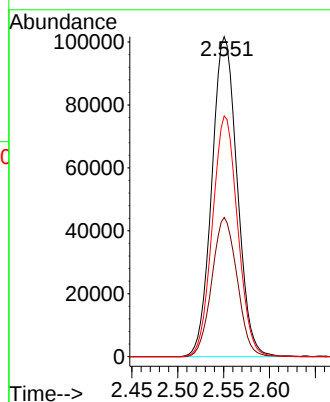
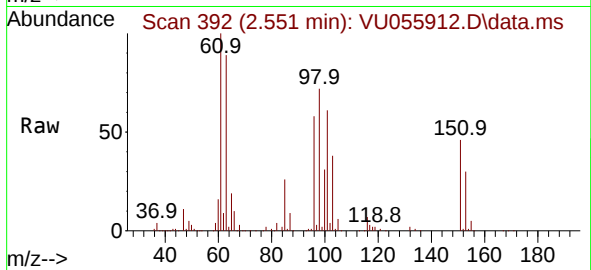




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 41.218 ug/L  
 RT: 2.551 min Scan# 392  
 Delta R.T. -0.029 min  
 Lab File: VU055912.D  
 Acq: 26 Oct 2023 18:00

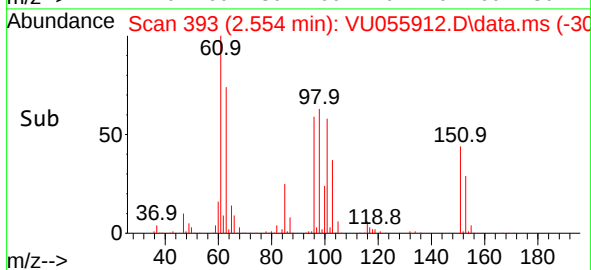
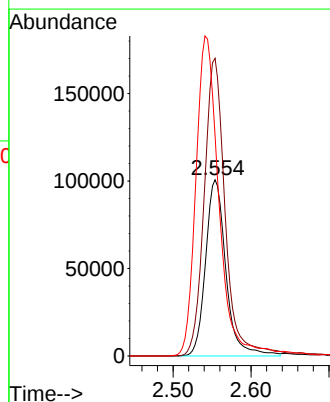
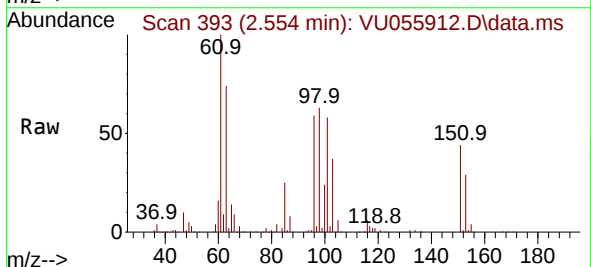
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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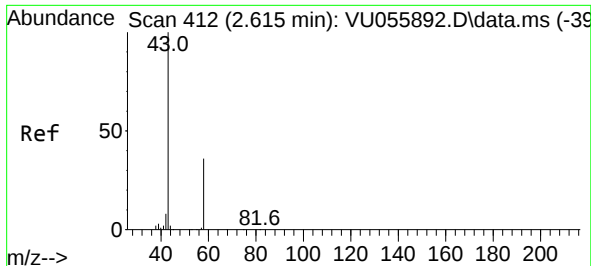
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 151 75.0 58.2 87.4



#12  
 1,1-Dichloroethene  
 Concen: 43.294 ug/L  
 RT: 2.554 min Scan# 393  
 Delta R.T. -0.026 min  
 Lab File: VU055912.D  
 Acq: 26 Oct 2023 18:00

Tgt Ion: 96 Resp: 182647  
 Ion Ratio Lower Upper  
 96 100  
 61 169.0 122.0 226.6  
 63 125.1 93.7 174.1





#13

Acetone

Concen: 63.473 ug/L

RT: 2.634 min Scan# 41

Delta R.T. 0.019 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Instrument :

MSVOA\_U

ClientSampleId :

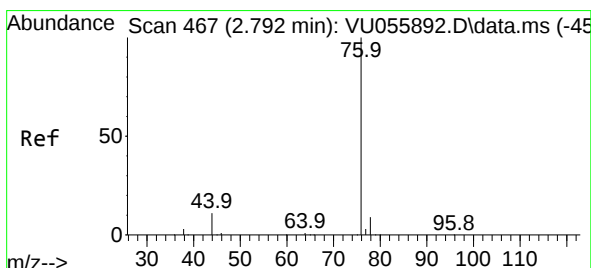
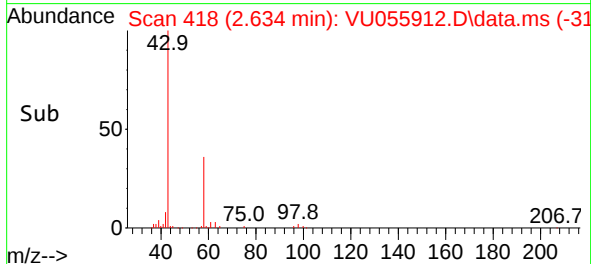
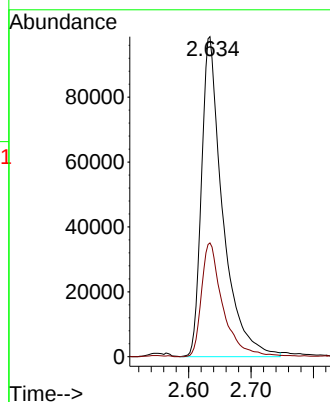
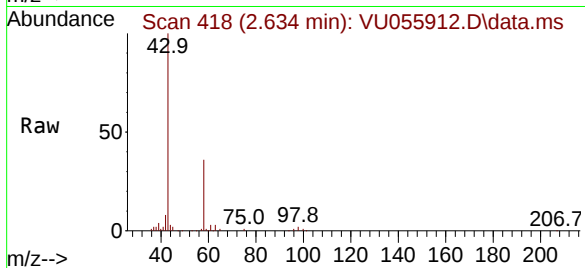
E0LJ3MEMS

Tgt Ion: 43 Resp: 232967

Ion Ratio Lower Upper

43 100

58 35.4 0.0 67.4



#14

Carbon disulfide

Concen: 38.027 ug/L

RT: 2.766 min Scan# 459

Delta R.T. -0.026 min

Lab File: VU055912.D

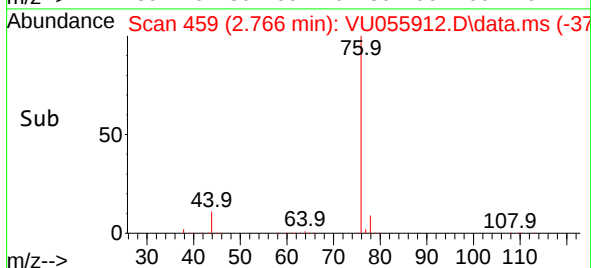
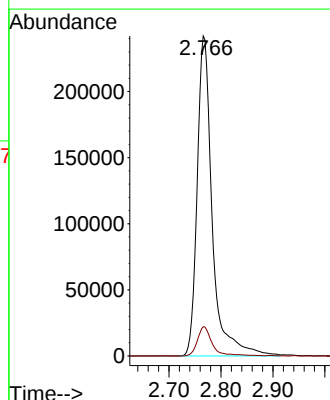
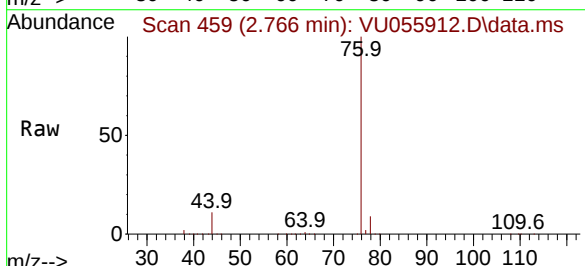
Acq: 26 Oct 2023 18:00

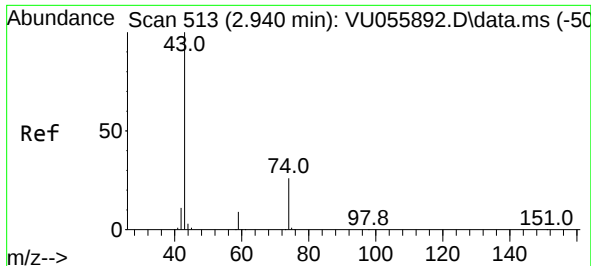
Tgt Ion: 76 Resp: 488215

Ion Ratio Lower Upper

76 100

78 9.1 6.8 10.2

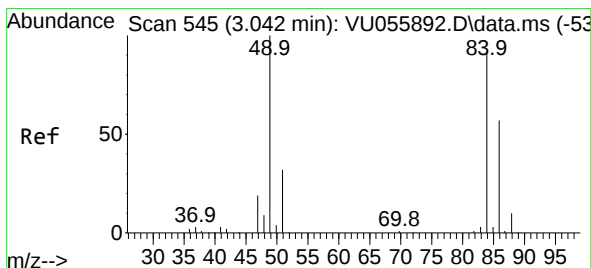
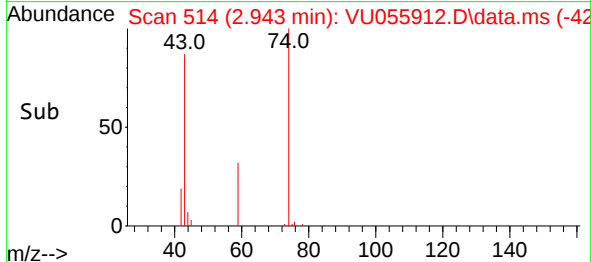
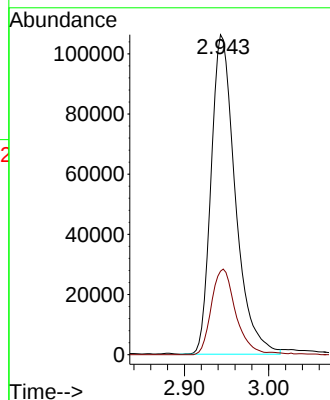
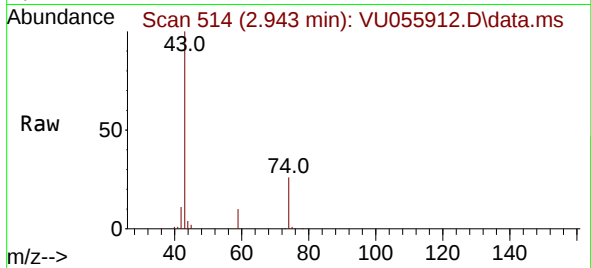




#15  
Methyl Acetate  
Concen: 37.689 ug/L  
RT: 2.943 min Scan# 513  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

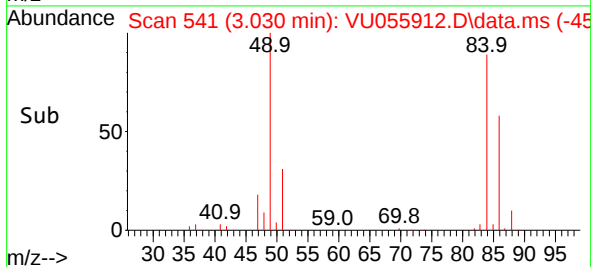
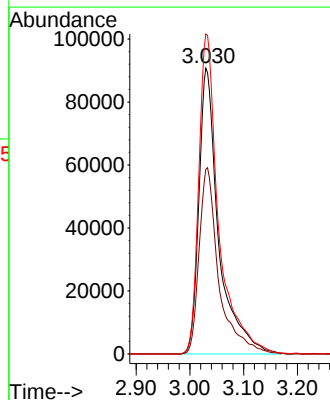
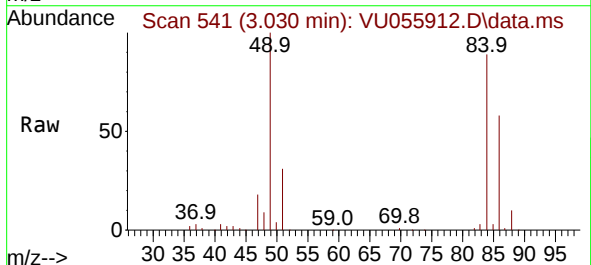
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

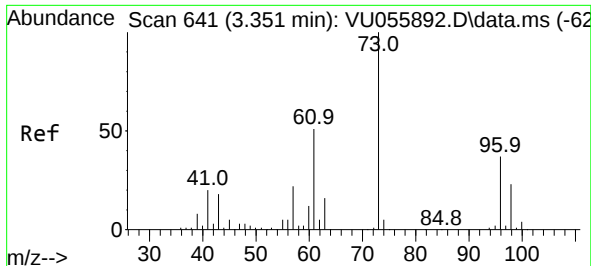
Tgt Ion: 43 Resp: 211850  
Ion Ratio Lower Upper  
43 100  
74 26.7 19.5 29.3



#16  
Methylene chloride  
Concen: 45.364 ug/L  
RT: 3.030 min Scan# 541  
Delta R.T. -0.013 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion: 84 Resp: 232088  
Ion Ratio Lower Upper  
84 100  
86 64.6 46.3 86.1  
49 112.0 84.8 157.6

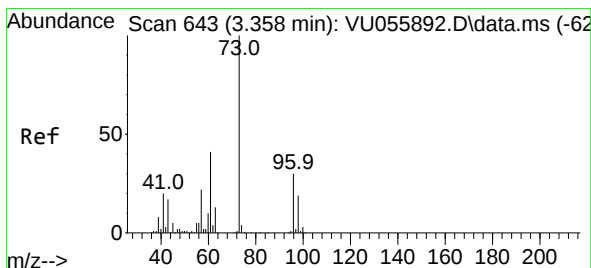
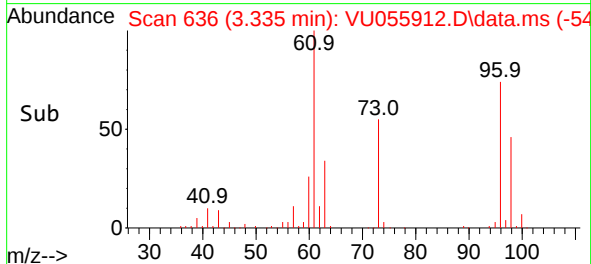
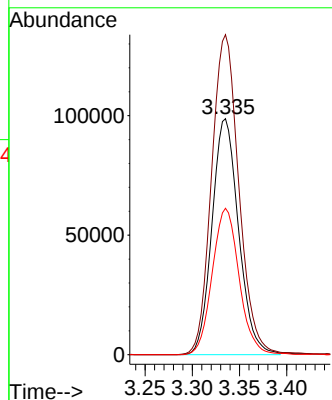
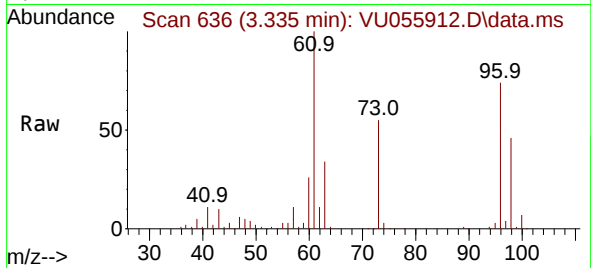




#17  
trans-1,2-Dichloroethene  
Concen: 44.744 ug/L  
RT: 3.335 min Scan# 61  
Delta R.T. -0.016 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

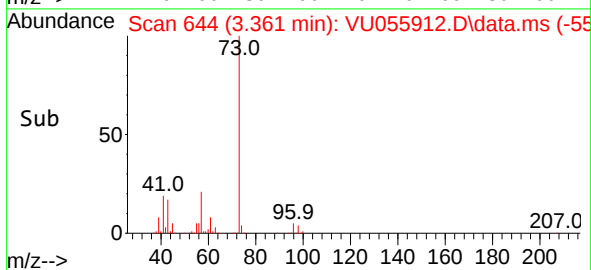
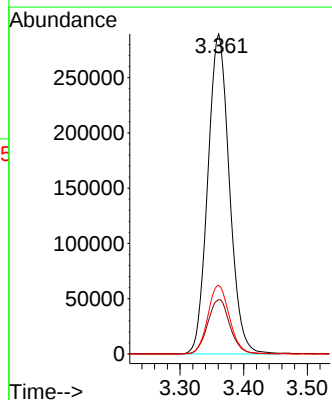
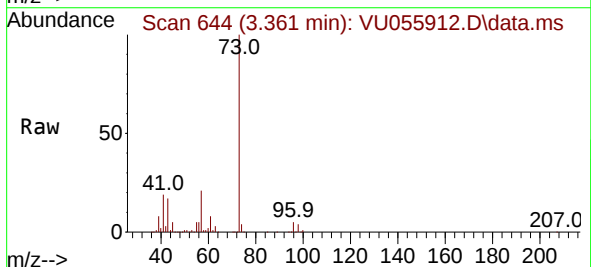
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

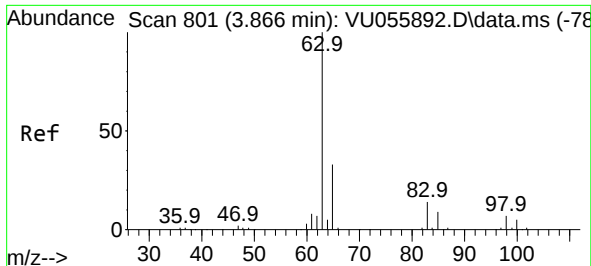
Tgt Ion: 96 Resp: 193024  
Ion Ratio Lower Upper  
96 100  
61 135.6 102.1 189.7  
98 62.0 46.3 86.1



#18  
Methyl tert-butyl Ether  
Concen: 49.191 ug/L  
RT: 3.361 min Scan# 644  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion: 73 Resp: 682456  
Ion Ratio Lower Upper  
73 100  
43 17.6 15.4 23.2  
57 21.5 17.7 26.5





#19

1,1-Dichloroethane

Concen: 44.216 ug/L

RT: 3.853 min Scan# 79

Delta R.T. -0.013 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Instrument :

MSVOA\_U

ClientSampleId :

E0LJ3MEMS

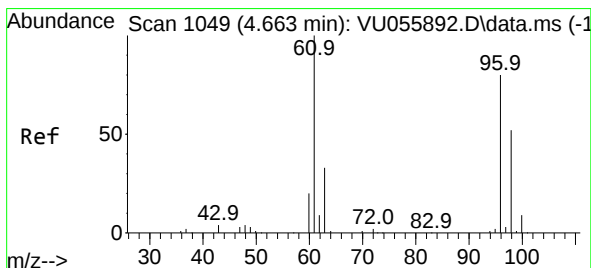
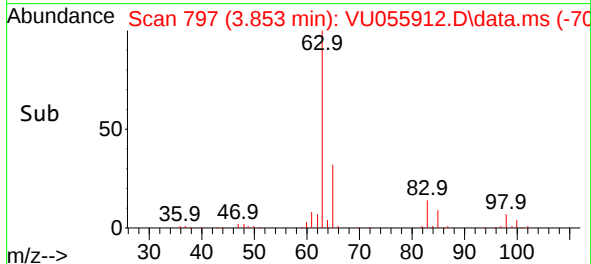
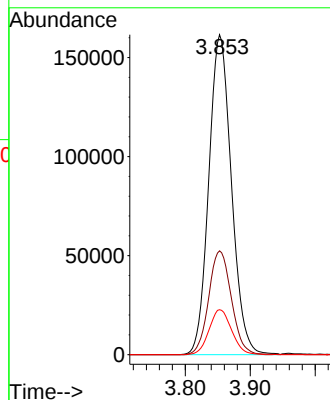
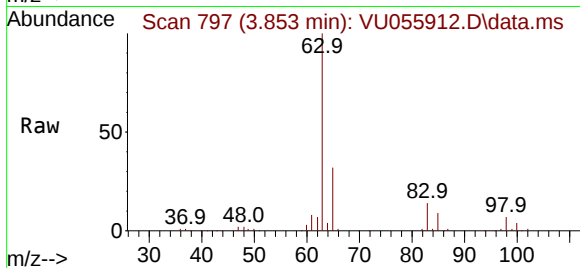
Tgt Ion: 63 Resp: 391167

Ion Ratio Lower Upper

63 100

65 32.4 22.3 41.5

83 14.0 9.5 17.7



#20

cis-1,2-Dichloroethene

Concen: 50.564 ug/L

RT: 4.657 min Scan# 1047

Delta R.T. -0.006 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

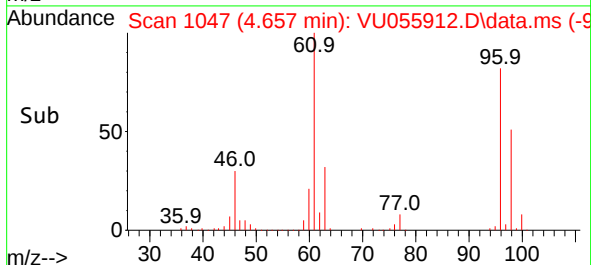
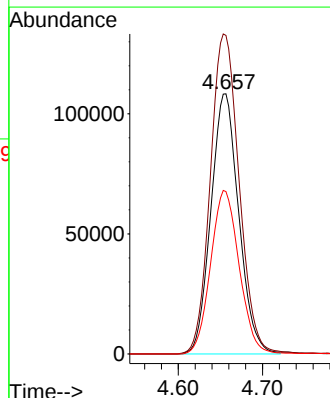
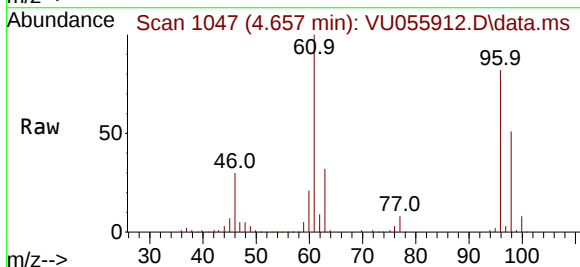
Tgt Ion: 96 Resp: 248954

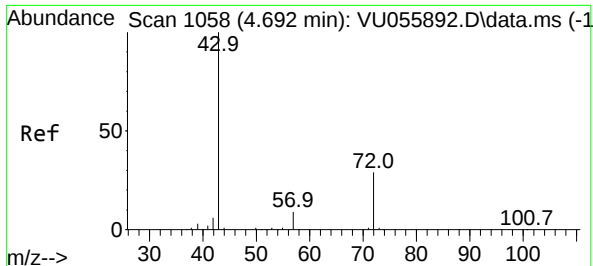
Ion Ratio Lower Upper

96 100

61 122.5 92.3 171.5

98 62.4 43.9 81.5





#22

2-Butanone

Concen: 72.553 ug/L

RT: 4.705 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Instrument :

MSVOA\_U

ClientSampleId :

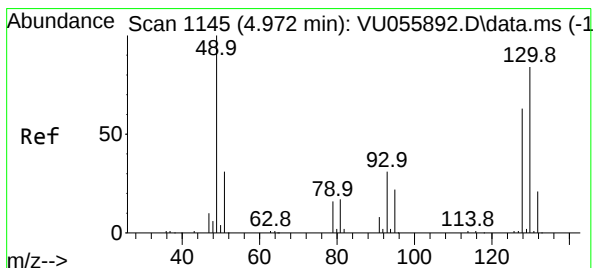
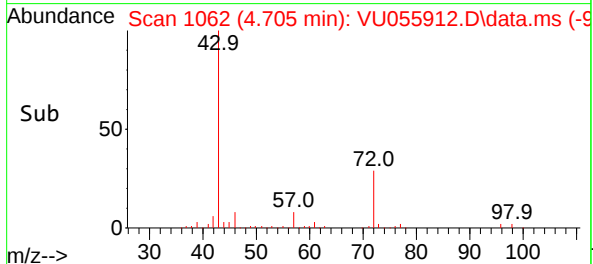
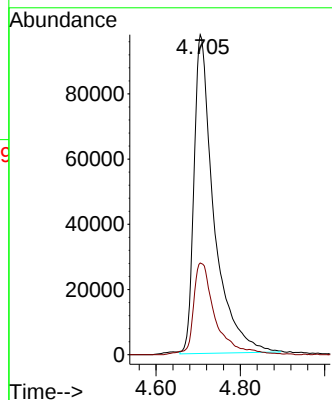
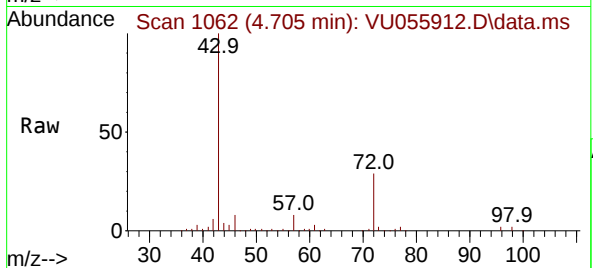
E0LJ3MEMS

Tgt Ion: 43 Resp: 320965

Ion Ratio Lower Upper

43 100

72 29.7 14.6 44.0



#23

Bromochloromethane

Concen: 46.354 ug/L

RT: 4.968 min Scan# 1144

Delta R.T. -0.003 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Tgt Ion: 128 Resp: 118196

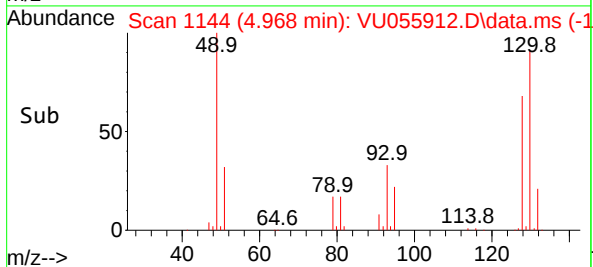
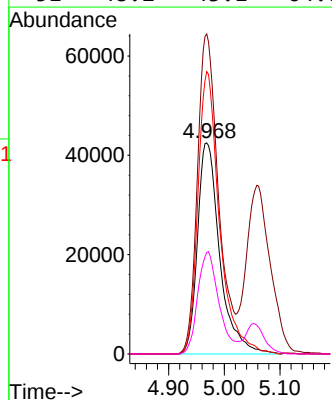
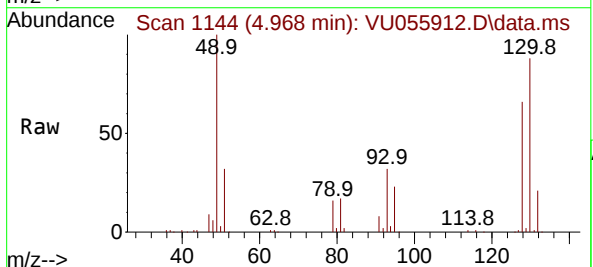
Ion Ratio Lower Upper

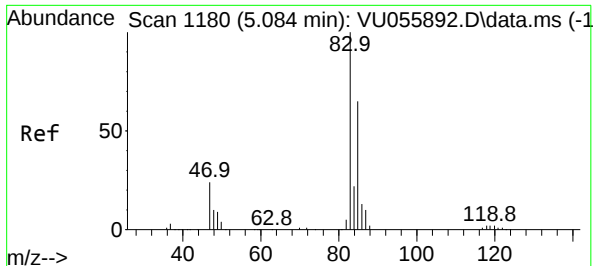
128 100

49 151.6 116.3 216.1

130 133.7 91.6 170.0

51 48.2 43.1 64.7





#25

Chloroform

Concen: 45.769 ug/L

RT: 5.081 min Scan# 1180

Delta R.T. -0.003 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Instrument :

MSVOA\_U

ClientSampleId :

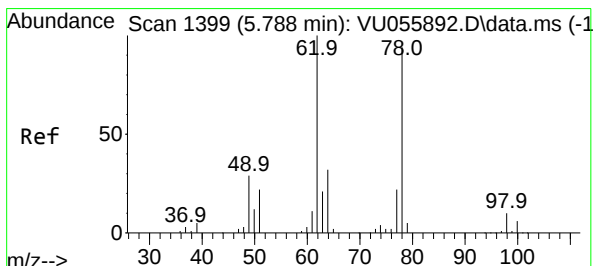
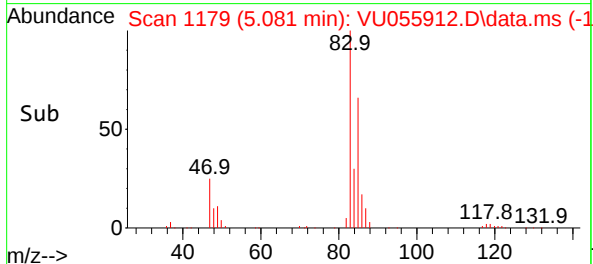
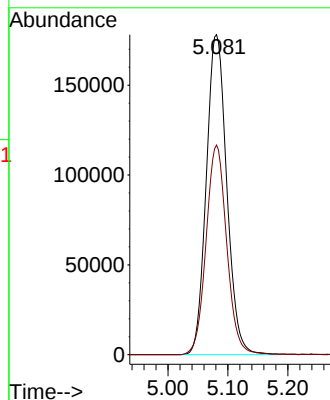
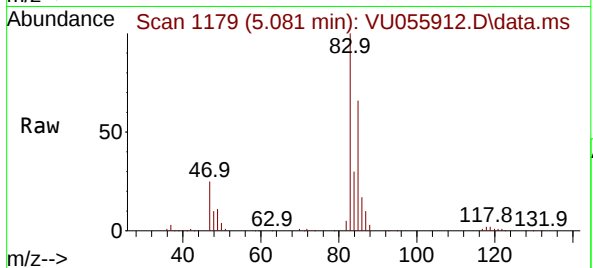
E0LJ3MEMS

Tgt Ion: 83 Resp: 422987

Ion Ratio Lower Upper

83 100

85 65.5 46.3 86.1



#27

1,2-Dichloroethane

Concen: 43.590 ug/L

RT: 5.788 min Scan# 1399

Delta R.T. 0.000 min

Lab File: VU055912.D

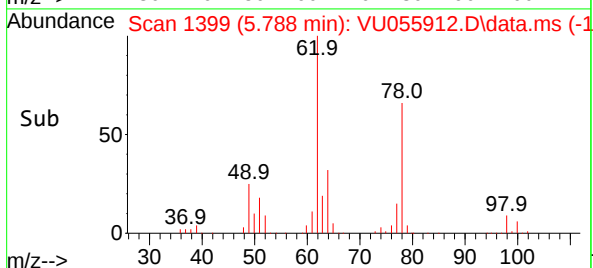
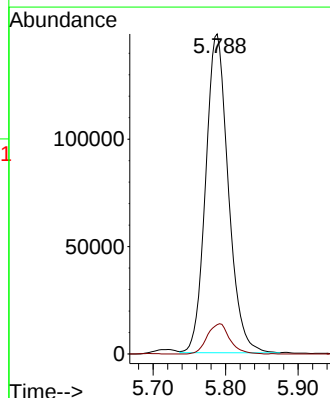
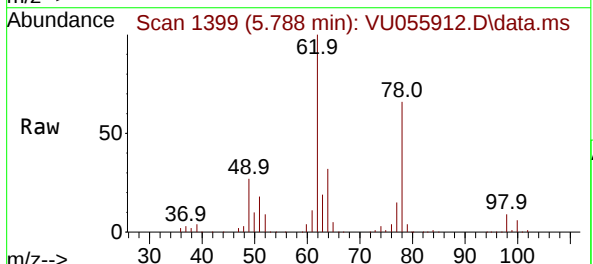
Acq: 26 Oct 2023 18:00

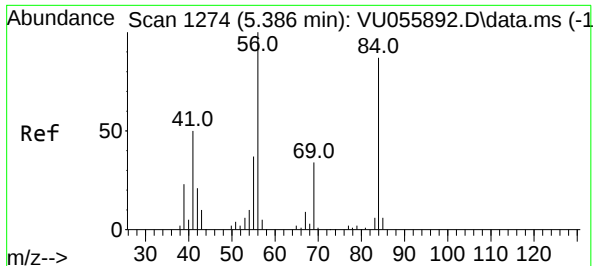
Tgt Ion: 62 Resp: 322195

Ion Ratio Lower Upper

62 100

98 9.2 7.2 10.8





#29

Cyclohexane

Concen: 46.341 ug/L

RT: 5.374 min Scan# 11

Delta R.T. -0.013 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Instrument :

MSVOA\_U

ClientSampleId :

E0LJ3MEMS

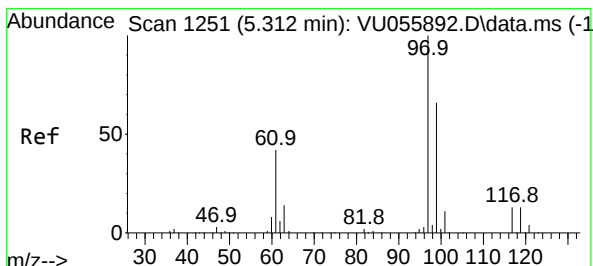
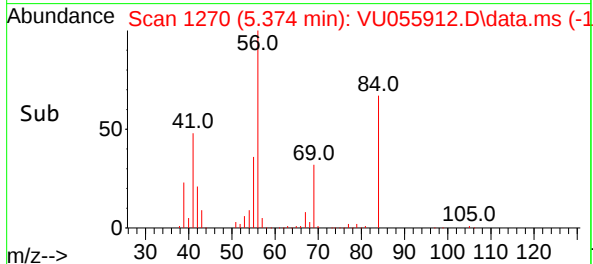
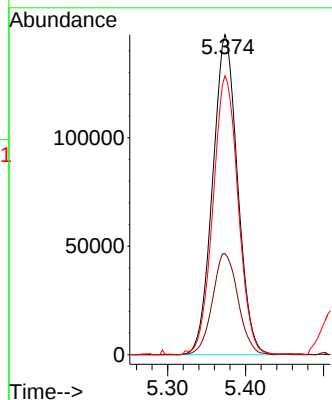
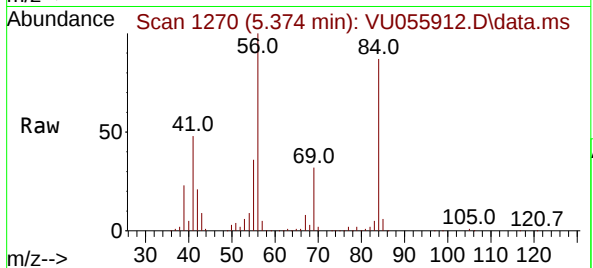
Tgt Ion: 56 Resp: 327907

Ion Ratio Lower Upper

56 100

69 32.5 24.9 37.3

84 87.2 70.7 106.1



#30

1,1,1-Trichloroethane

Concen: 43.492 ug/L

RT: 5.306 min Scan# 1249

Delta R.T. -0.006 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

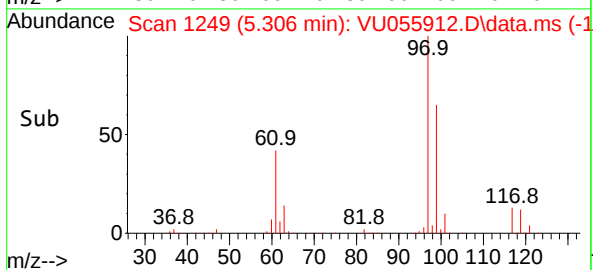
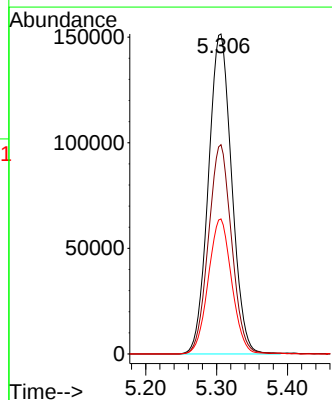
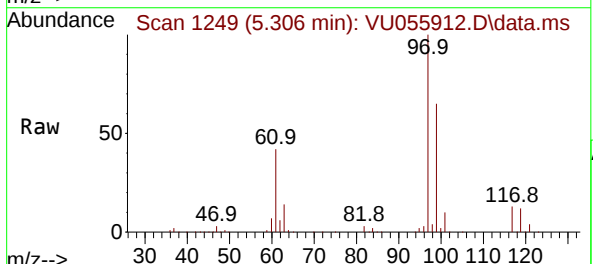
Tgt Ion: 97 Resp: 346874

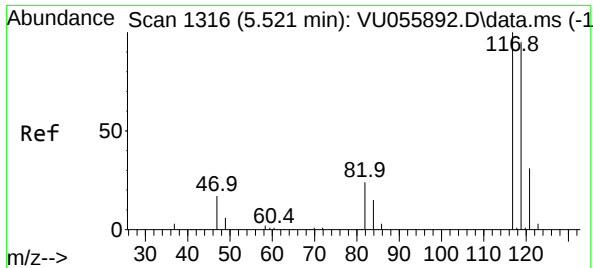
Ion Ratio Lower Upper

97 100

99 64.8 51.6 77.4

61 42.2 36.8 55.2

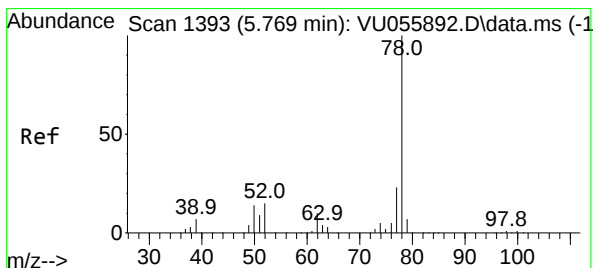
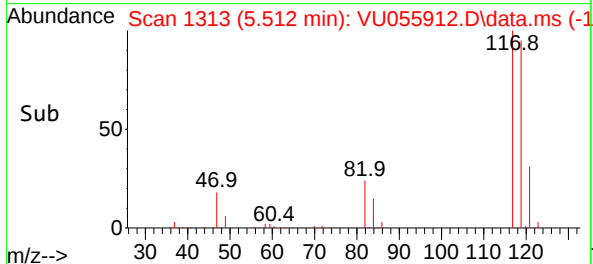
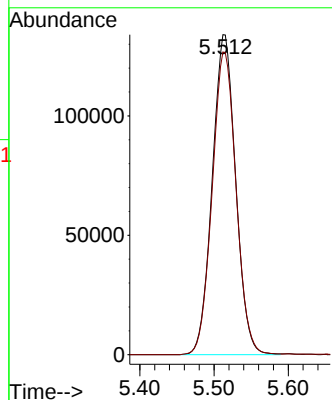
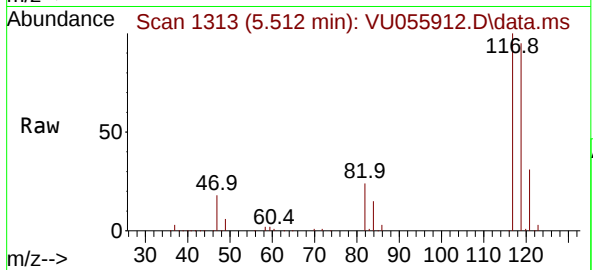




#31  
Carbon tetrachloride  
Concen: 42.103 ug/L  
RT: 5.512 min Scan# 117  
Delta R.T. -0.010 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

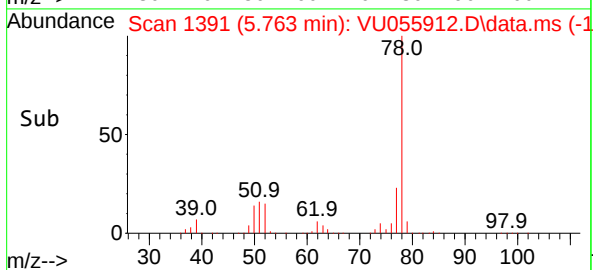
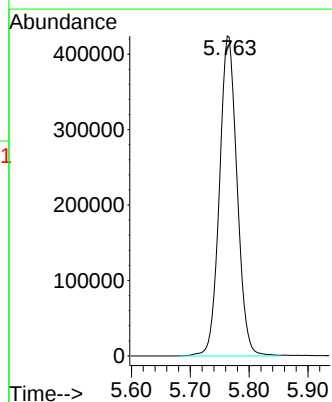
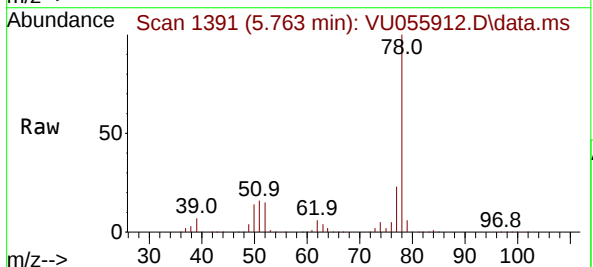
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

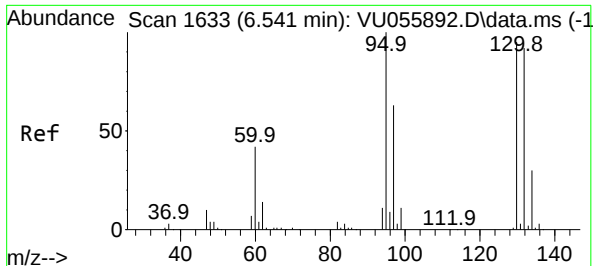
Tgt Ion:117 Resp: 293921  
Ion Ratio Lower Upper  
117 100  
119 96.5 75.4 113.0



#33  
Benzene  
Concen: 45.263 ug/L  
RT: 5.763 min Scan# 1391  
Delta R.T. -0.006 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion: 78 Resp: 883266

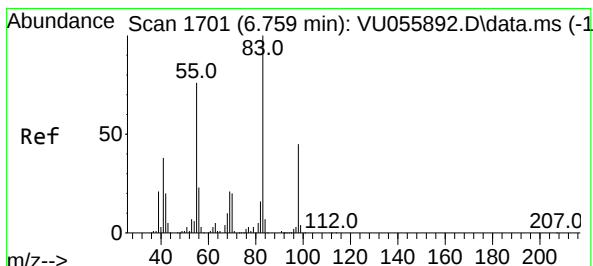
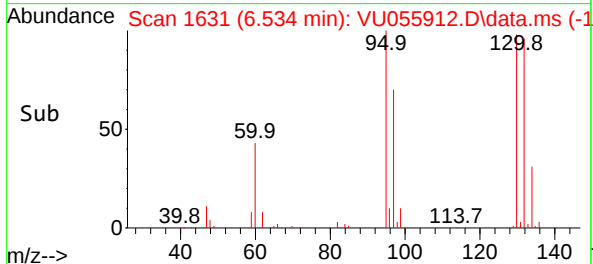
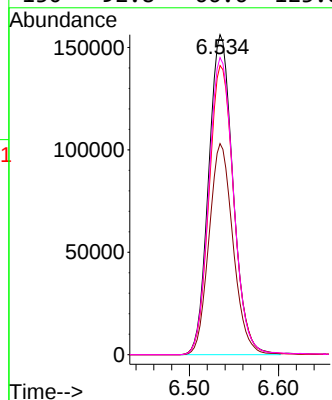
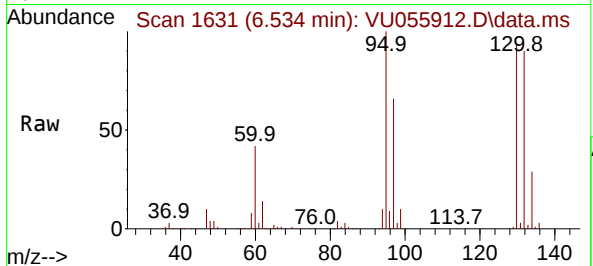




#34  
Trichloroethene  
Concen: 55.571 ug/L  
RT: 6.534 min Scan# 1631  
Delta R.T. -0.006 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

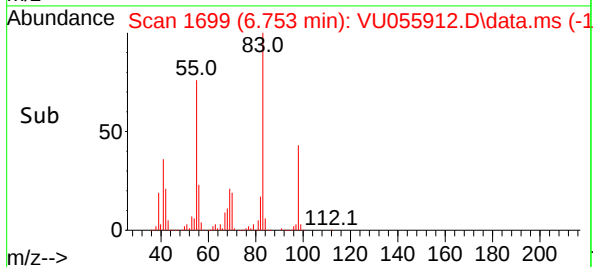
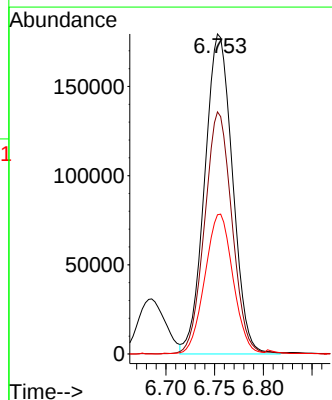
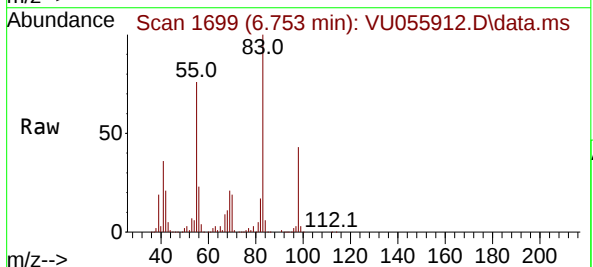
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

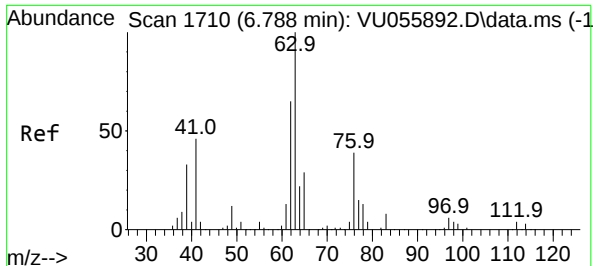
Tgt Ion: 95 Resp: 296718  
Ion Ratio Lower Upper  
95 100  
97 65.9 44.4 82.5  
132 90.3 61.8 114.8  
130 92.8 66.6 123.8



#35  
Methylcyclohexane  
Concen: 46.064 ug/L  
RT: 6.753 min Scan# 1699  
Delta R.T. -0.006 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion: 83 Resp: 356856  
Ion Ratio Lower Upper  
83 100  
55 74.7 61.2 91.8  
98 43.9 35.8 53.6

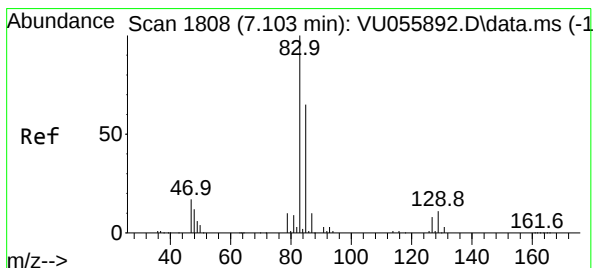
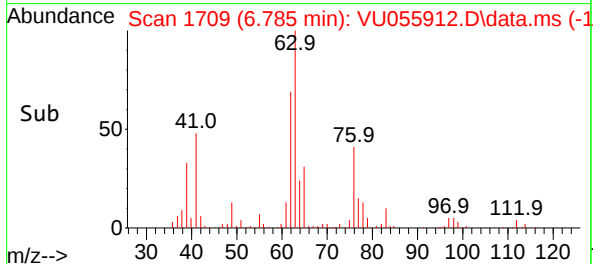
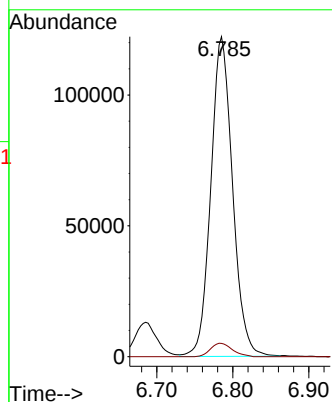
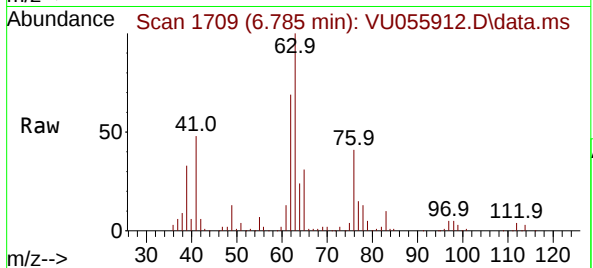




#37  
1,2-Dichloropropane  
Concen: 45.126 ug/L  
RT: 6.785 min Scan# 1710  
Delta R.T. -0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

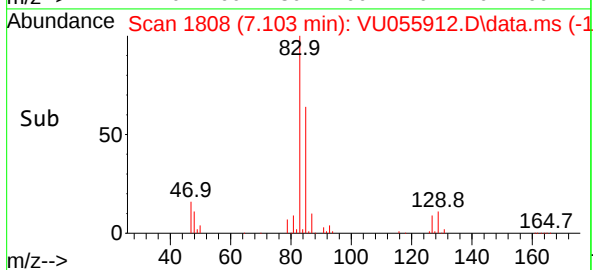
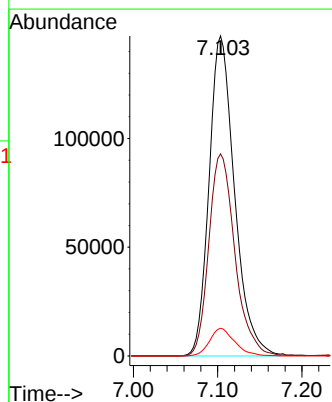
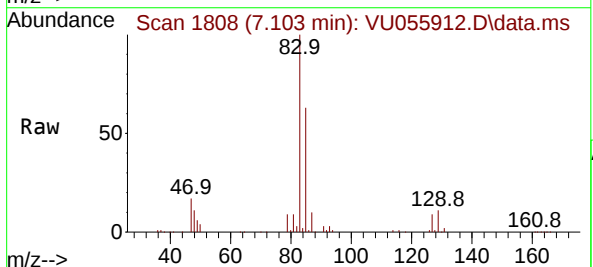
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MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

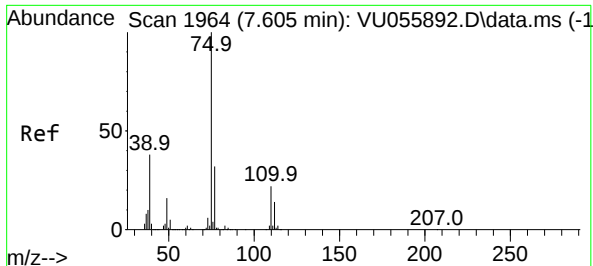
Tgt Ion: 63 Resp: 242486  
Ion Ratio Lower Upper  
63 100  
112 4.2 3.0 4.4



#38  
Bromodichloromethane  
Concen: 43.697 ug/L  
RT: 7.103 min Scan# 1808  
Delta R.T. 0.000 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion: 83 Resp: 309646  
Ion Ratio Lower Upper  
83 100  
85 63.2 46.0 85.4  
127 9.4 7.0 10.4





#39

cis-1,3-Dichloropropene

Concen: 48.166 ug/L

RT: 7.602 min Scan# 1964

Delta R.T. -0.003 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Instrument :

MSVOA\_U

ClientSampleId :

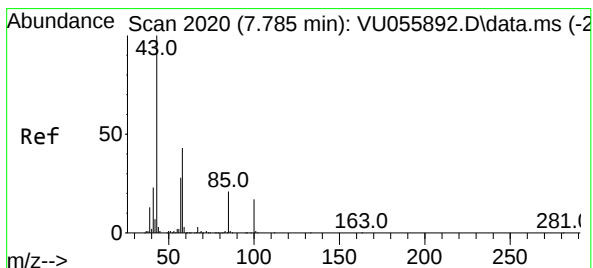
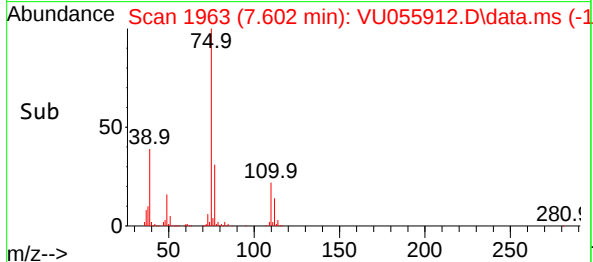
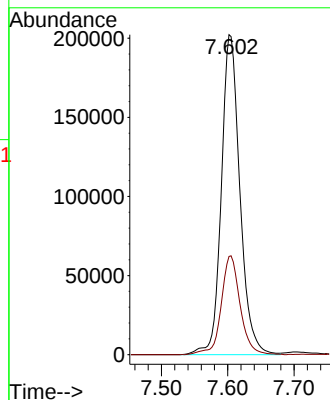
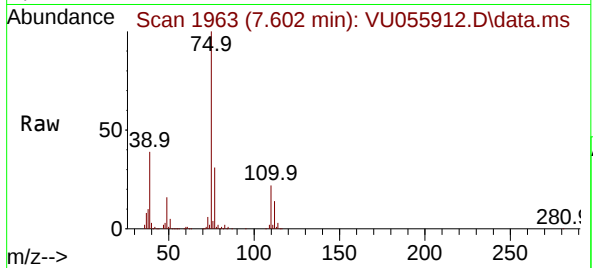
E0LJ3MEMS

Tgt Ion: 75 Resp: 393760

Ion Ratio Lower Upper

75 100

77 30.7 21.7 40.3



#40

4-Methyl-2-pentanone

Concen: 85.595 ug/L

RT: 7.811 min Scan# 2028

Delta R.T. 0.026 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

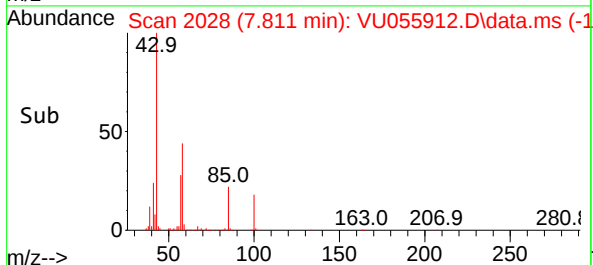
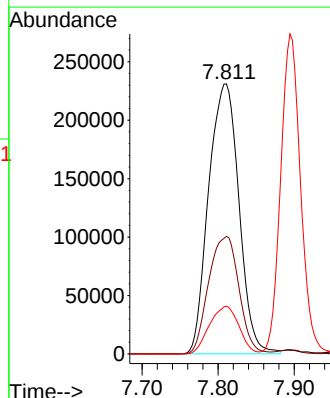
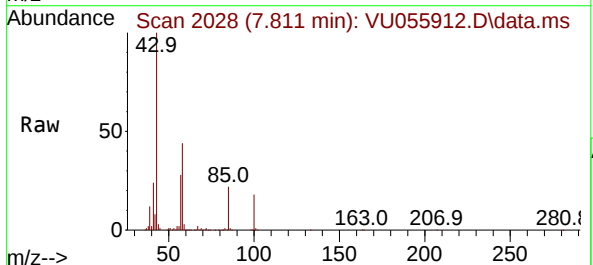
Tgt Ion: 43 Resp: 639867

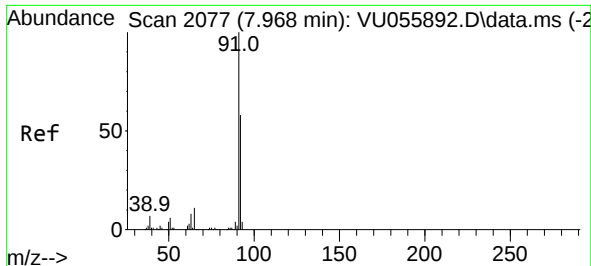
Ion Ratio Lower Upper

43 100

58 43.6 32.3 48.5

100 17.2 12.0 18.0





#42

Toluene

Concen: 47.296 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. -0.003 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Instrument :

MSVOA\_U

ClientSampleId :

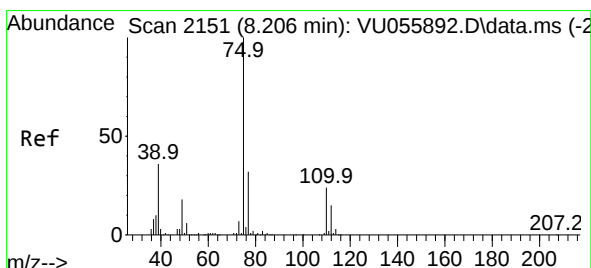
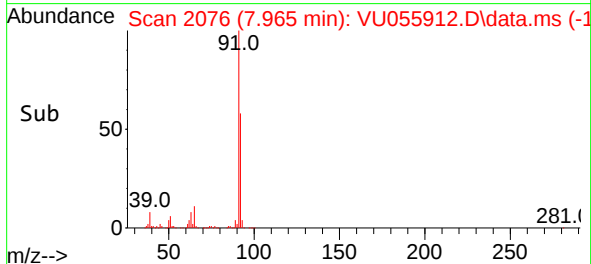
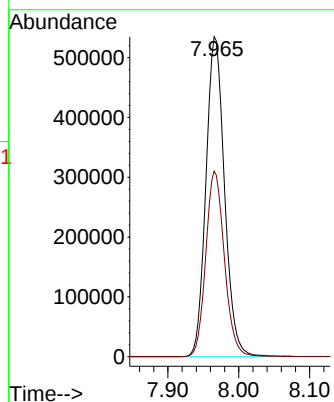
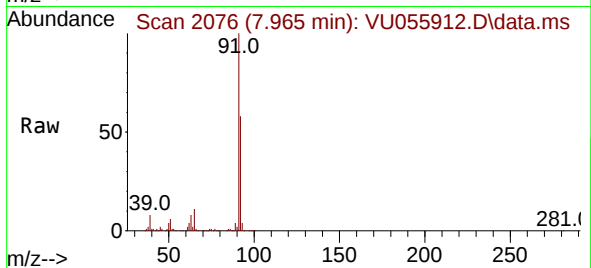
E0LJ3MEMS

Tgt Ion: 91 Resp: 973874

Ion Ratio Lower Upper

91 100

92 58.0 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 47.233 ug/L

RT: 8.209 min Scan# 2152

Delta R.T. 0.003 min

Lab File: VU055912.D

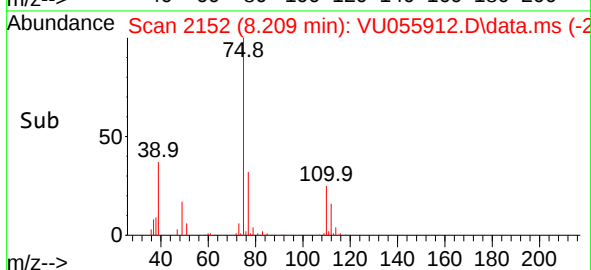
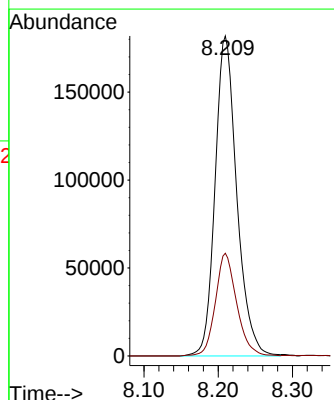
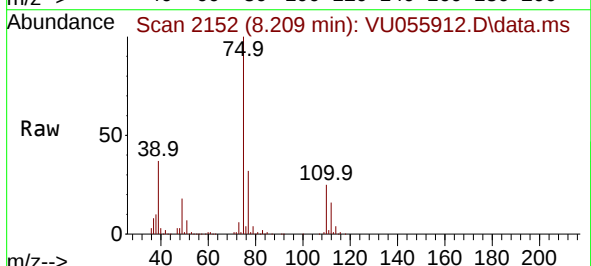
Acq: 26 Oct 2023 18:00

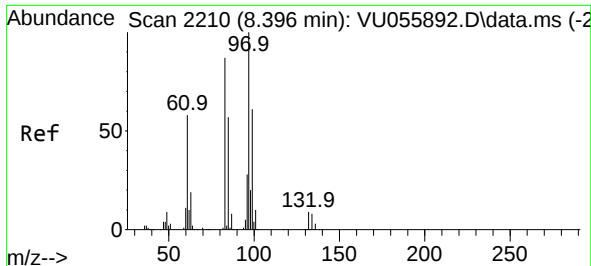
Tgt Ion: 75 Resp: 369456

Ion Ratio Lower Upper

75 100

77 32.1 21.6 40.2

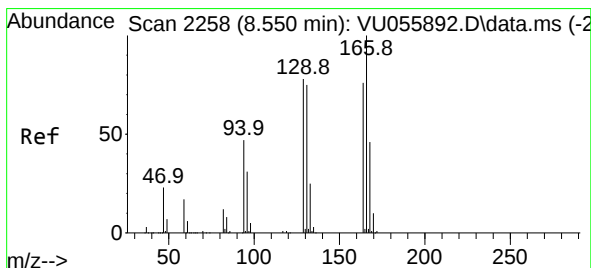
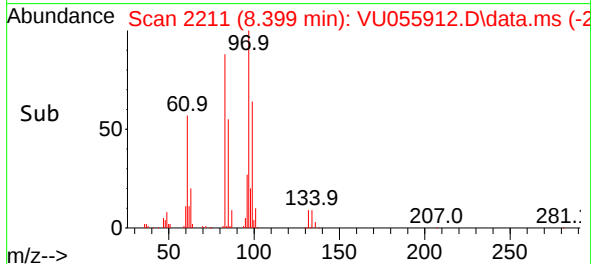
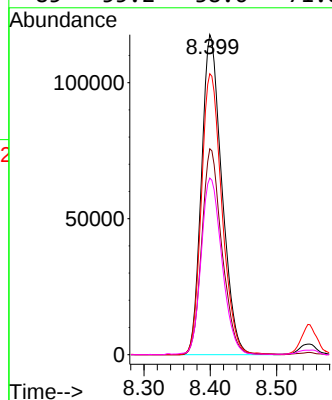
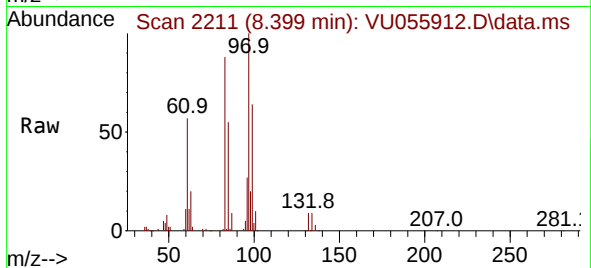




#45  
1,1,2-Trichloroethane  
Concen: 47.406 ug/L  
RT: 8.399 min Scan# 211  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

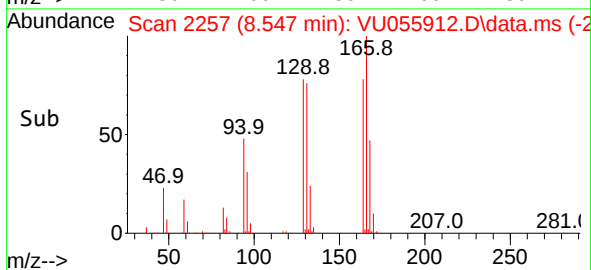
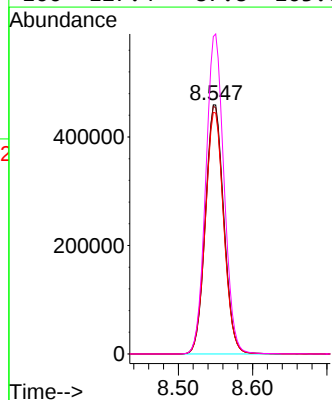
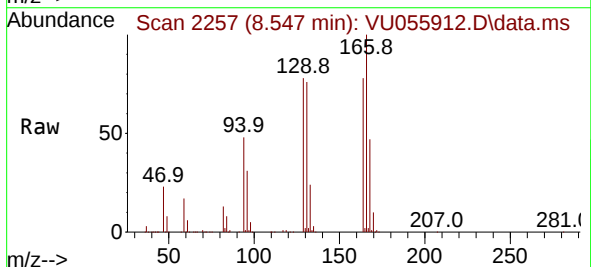
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

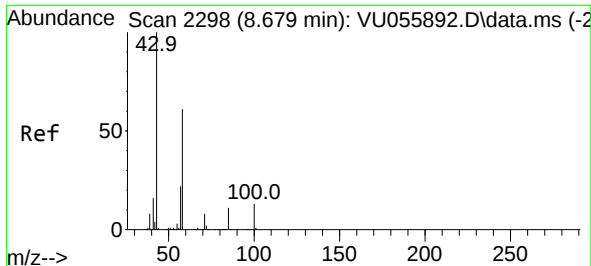
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 251185 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 64.4  | 44.4  | 82.5   |
| 83       | 87.8  | 60.4  | 112.2  |
| 85       | 55.2  | 38.6  | 71.8   |



#46  
Tetrachloroethene  
Concen: 205.879 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. -0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 787050 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 99.5  | 70.7  | 131.3  |
| 131      | 97.0  | 65.9  | 122.5  |
| 166      | 127.4 | 87.8  | 163.0  |

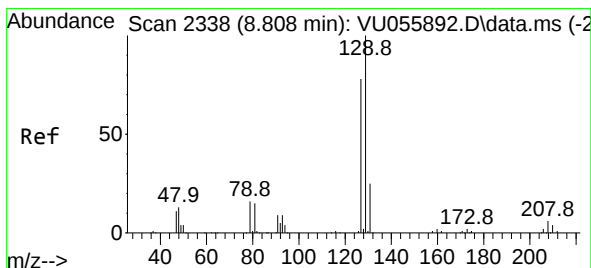
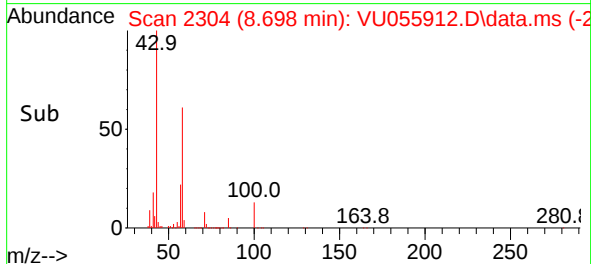
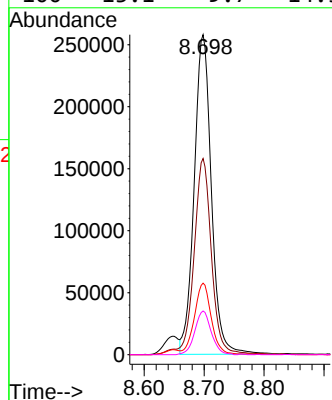
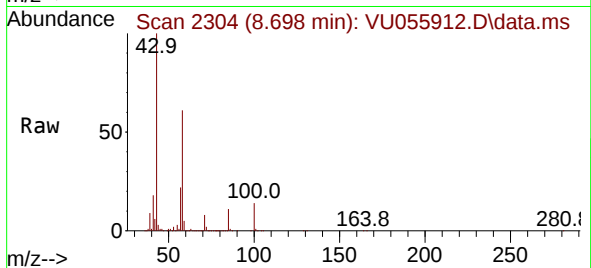




#48  
2-Hexanone  
Concen: 81.617 ug/L  
RT: 8.698 min Scan# 21  
Delta R.T. 0.019 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

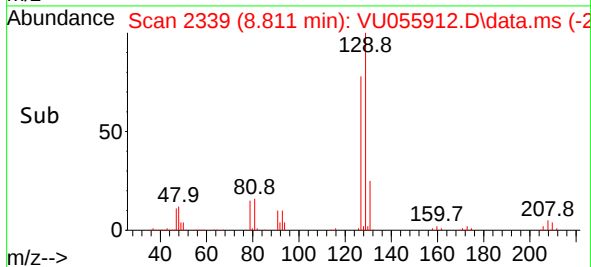
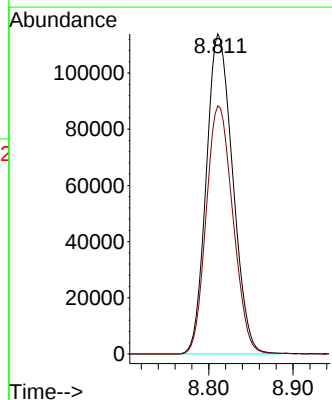
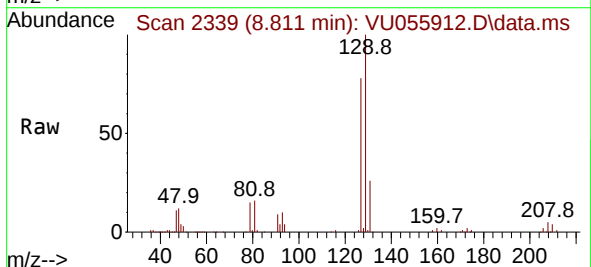
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

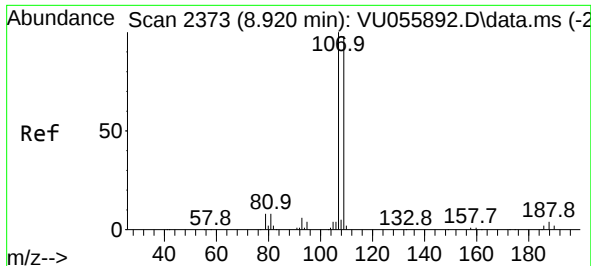
Tgt Ion: 43 Resp: 515353  
Ion Ratio Lower Upper  
43 100  
58 60.2 45.2 67.8  
57 21.8 16.1 24.1  
100 13.1 9.7 14.5



#49  
Dibromochloromethane  
Concen: 45.996 ug/L  
RT: 8.811 min Scan# 2339  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion: 129 Resp: 249018  
Ion Ratio Lower Upper  
129 100  
127 77.5 54.0 100.4

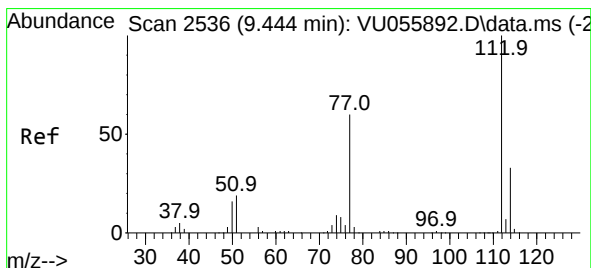
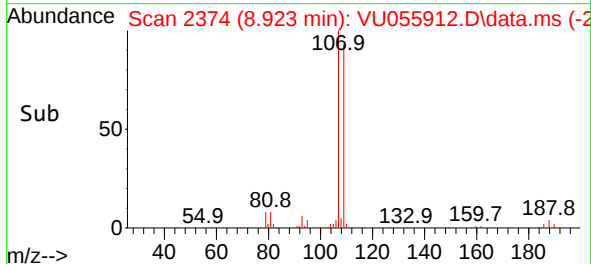
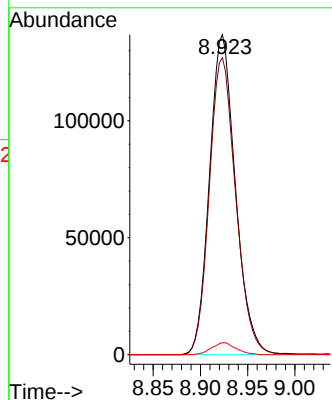
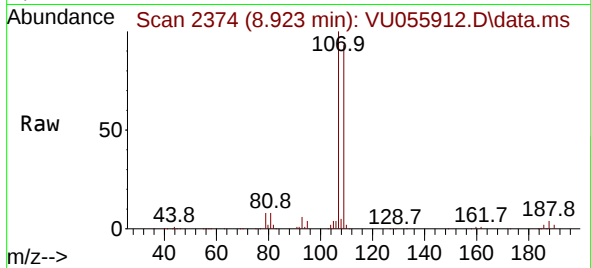




#50  
1,2-Dibromoethane  
Concen: 45.830 ug/L  
RT: 8.923 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

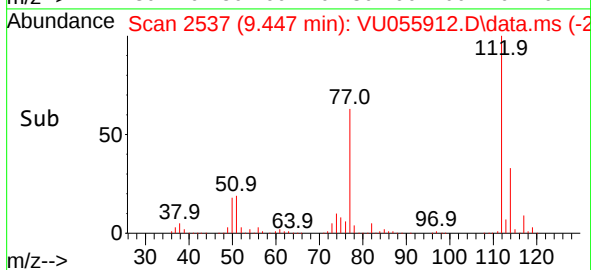
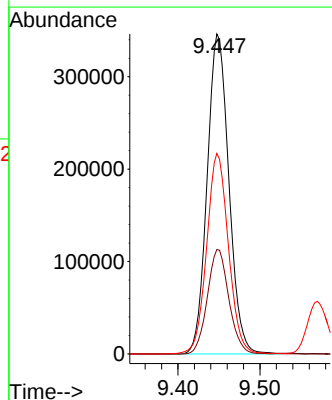
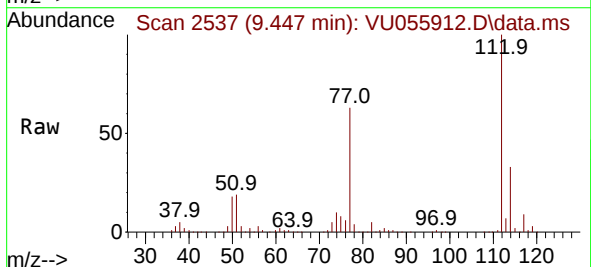
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MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

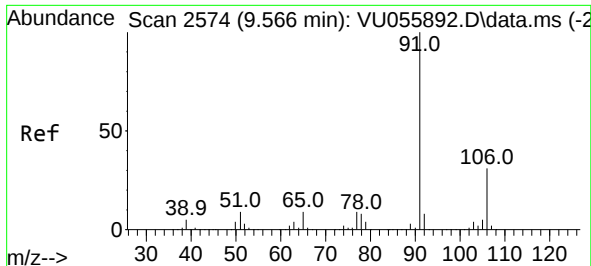
Tgt Ion:107 Resp: 260824  
Ion Ratio Lower Upper  
107 100  
109 92.8 66.7 123.9  
188 3.8 2.6 4.0



#51  
Chlorobenzene  
Concen: 47.888 ug/L  
RT: 9.447 min Scan# 2537  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion:112 Resp: 637985  
Ion Ratio Lower Upper  
112 100  
114 32.6 22.0 40.8  
77 62.7 49.0 73.6

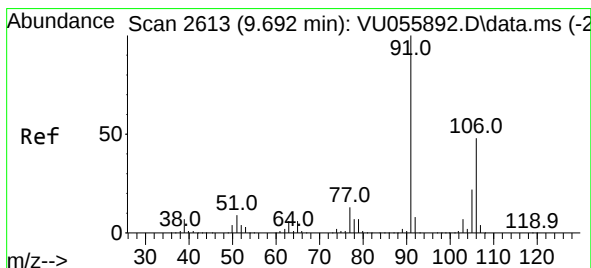
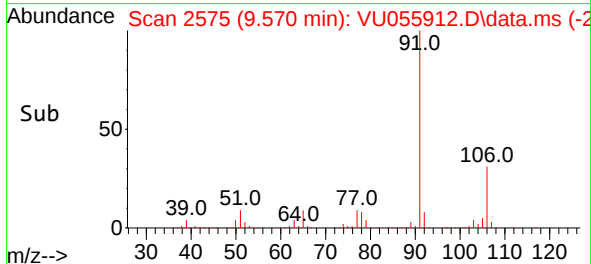
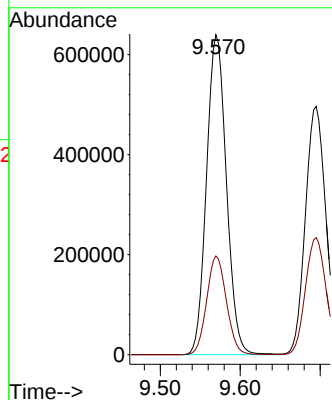
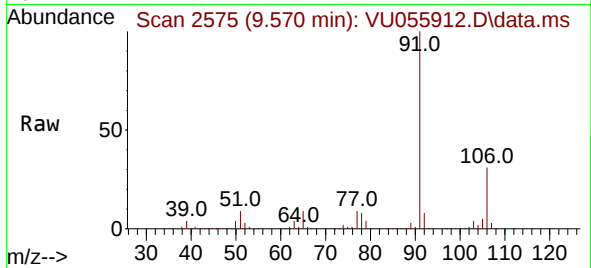




#52  
Ethylbenzene  
Concen: 49.198 ug/L  
RT: 9.570 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

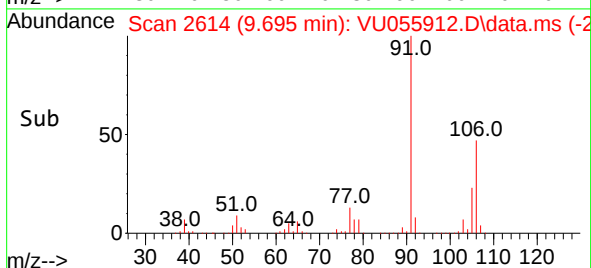
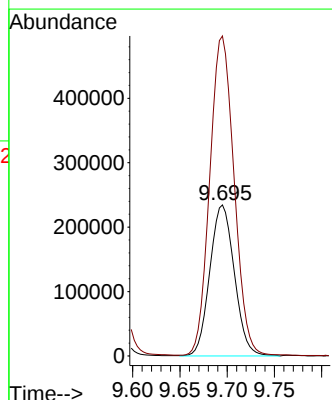
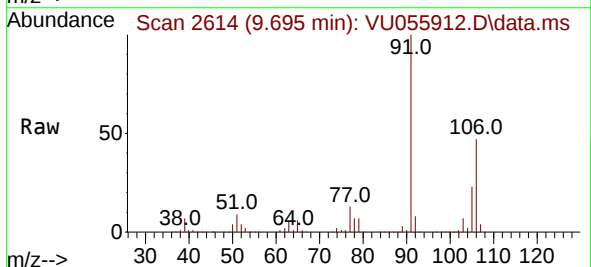
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MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

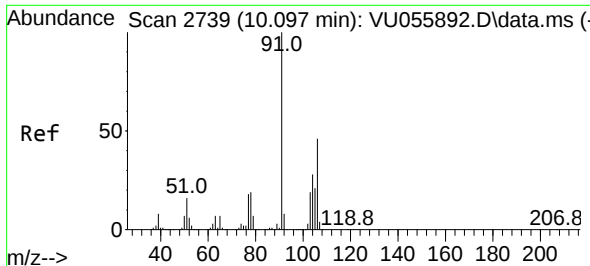
Tgt Ion: 91 Resp: 1107542  
Ion Ratio Lower Upper  
91 100  
106 30.8 21.2 39.4



#53  
m,p-Xylene  
Concen: 50.204 ug/L  
RT: 9.695 min Scan# 2614  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion:106 Resp: 423409  
Ion Ratio Lower Upper  
106 100  
91 211.9 143.8 267.0

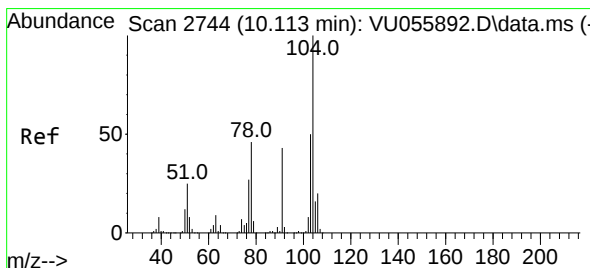
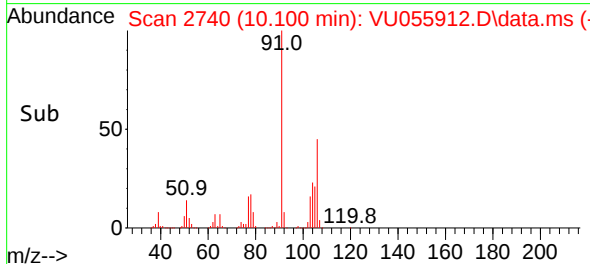
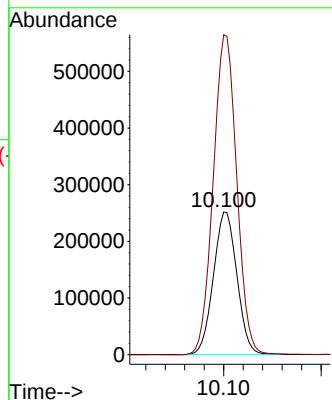
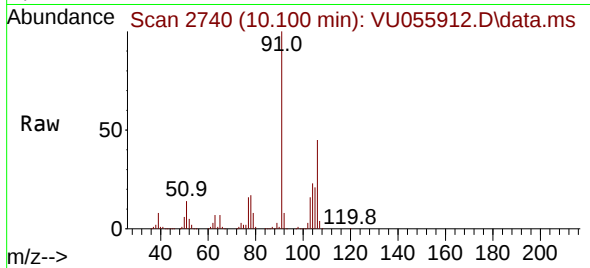




#54  
o-Xylene  
Concen: 51.720 ug/L  
RT: 10.100 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

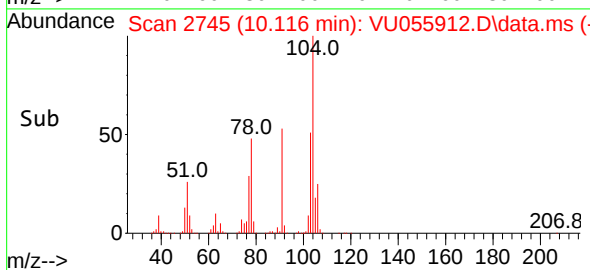
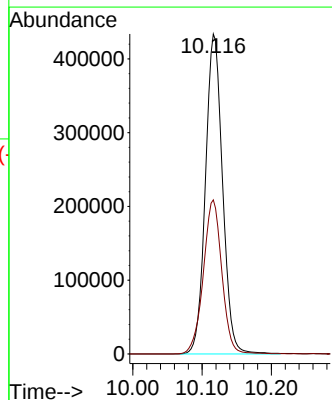
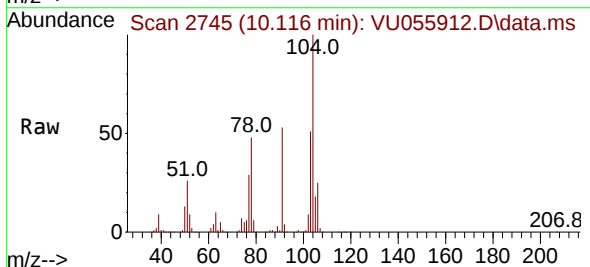
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ClientSampleId :  
E0LJ3MEMS

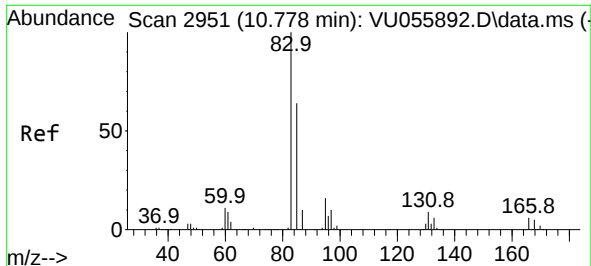
Tgt Ion:106 Resp: 422102  
Ion Ratio Lower Upper  
106 100  
91 224.2 151.8 282.0



#55  
Styrene  
Concen: 53.802 ug/L  
RT: 10.116 min Scan# 2745  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion:104 Resp: 743845  
Ion Ratio Lower Upper  
104 100  
78 48.2 33.6 62.4





#57

1,1,2,2-Tetrachloroethane

Concen: 48.212 ug/L

RT: 10.785 min Scan# 2951

Delta R.T. 0.006 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Instrument :

MSVOA\_U

ClientSampleId :

E0LJ3MEMS

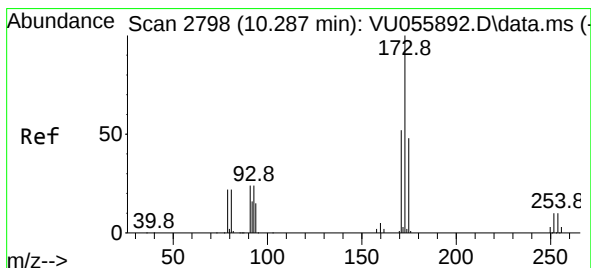
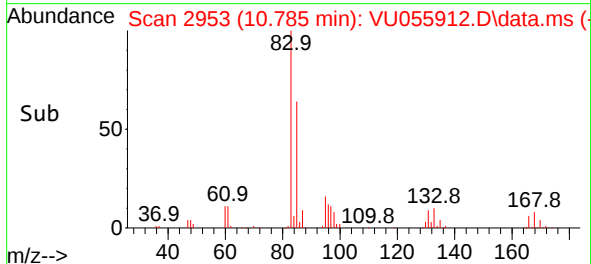
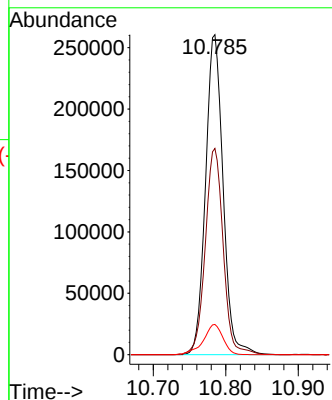
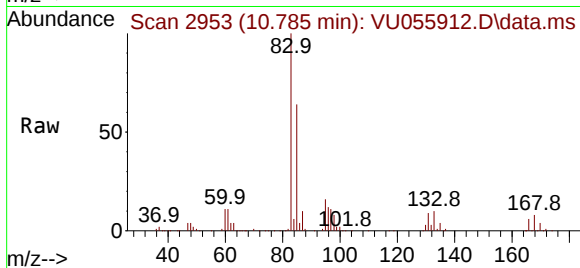
Tgt Ion: 83 Resp: 437408

Ion Ratio Lower Upper

83 100

85 64.5 44.9 83.5

131 9.4 7.3 10.9



#59

Bromoform

Concen: 49.030 ug/L

RT: 10.296 min Scan# 2801

Delta R.T. 0.010 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

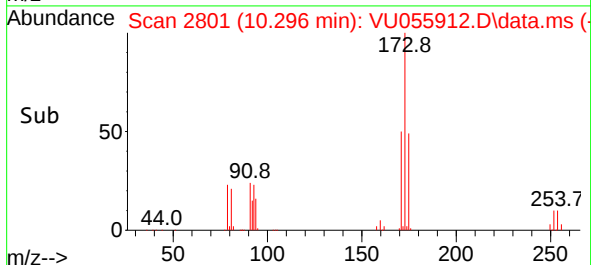
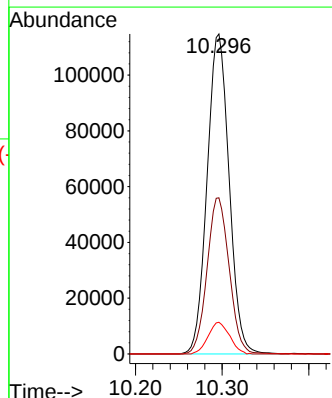
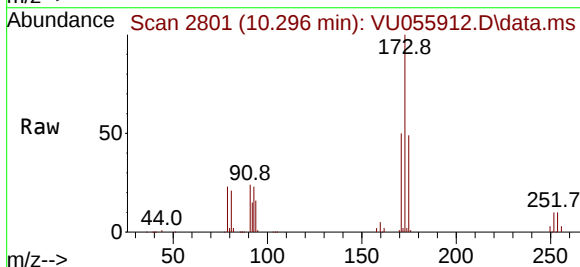
Tgt Ion:173 Resp: 202539

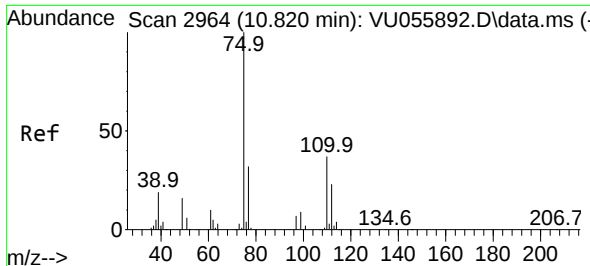
Ion Ratio Lower Upper

173 100

175 48.9 40.4 60.6

254 9.6 7.3 10.9

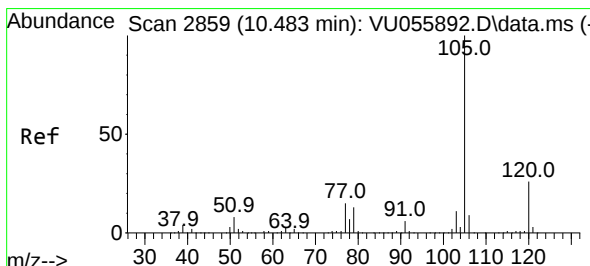
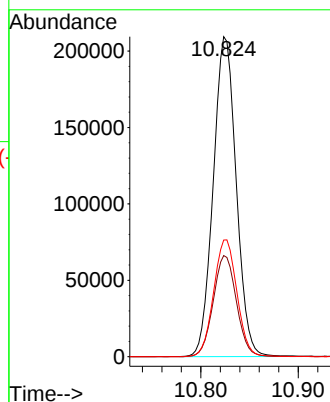
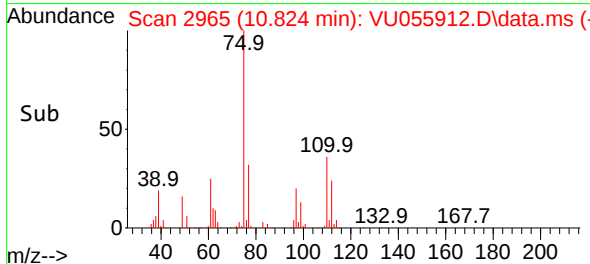
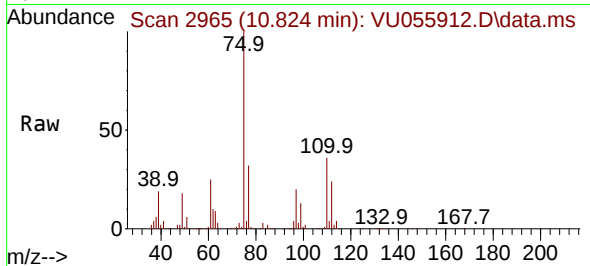




#60  
1,2,3-Trichloropropane  
Concen: 47.039 ug/L  
RT: 10.824 min Scan# 2964  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

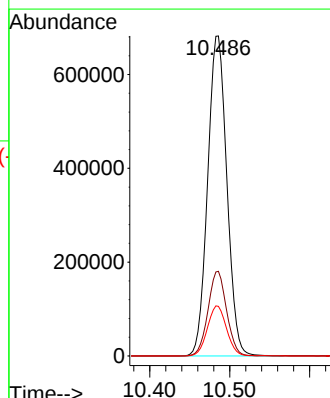
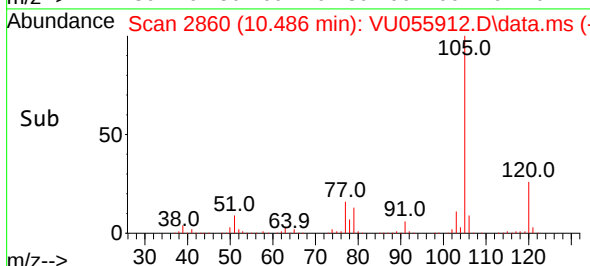
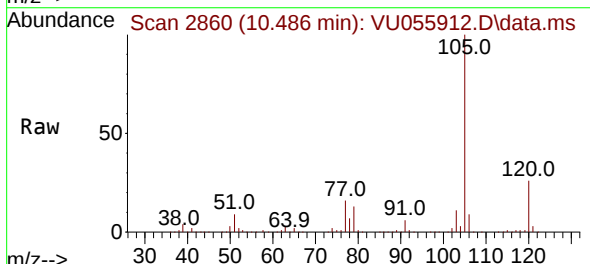
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

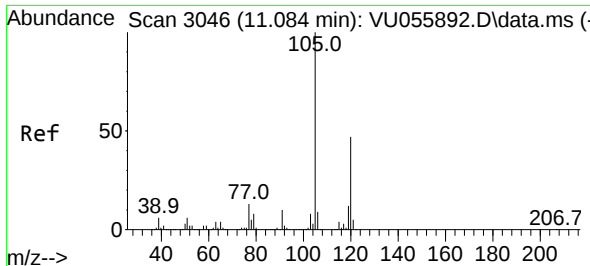
Tgt Ion: 75 Resp: 342578  
Ion Ratio Lower Upper  
75 100  
77 32.0 25.8 38.8  
110 37.1 28.5 42.7



#61  
Isopropylbenzene  
Concen: 54.446 ug/L  
RT: 10.486 min Scan# 2860  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion: 105 Resp: 1138990  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.6 30.8  
77 15.6 13.4 20.0

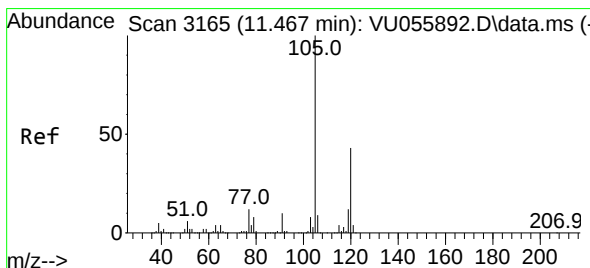
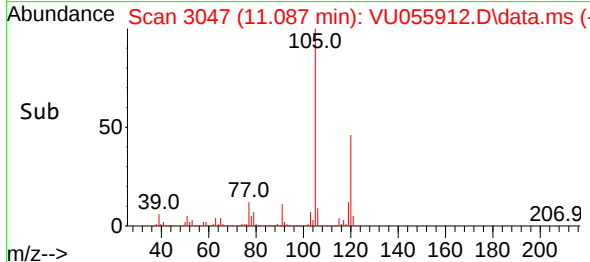
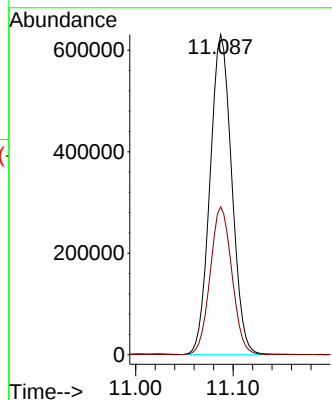
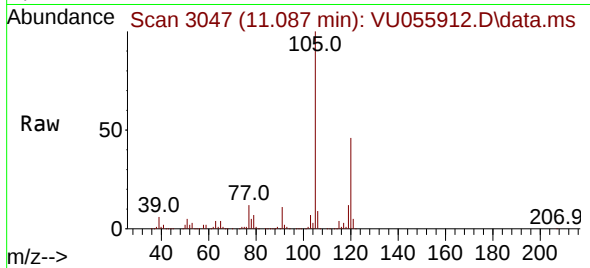




#62  
1,3,5-Trimethylbenzene  
Concen: 57.600 ug/L  
RT: 11.087 min Scan# 3046  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

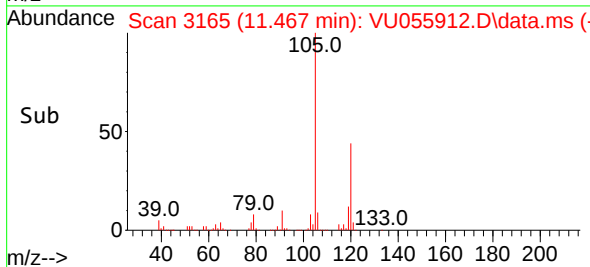
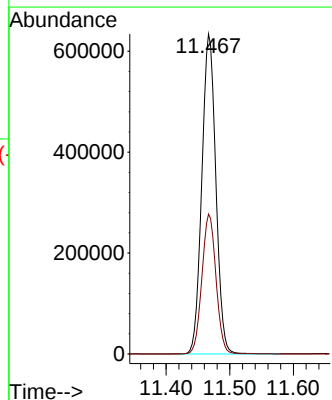
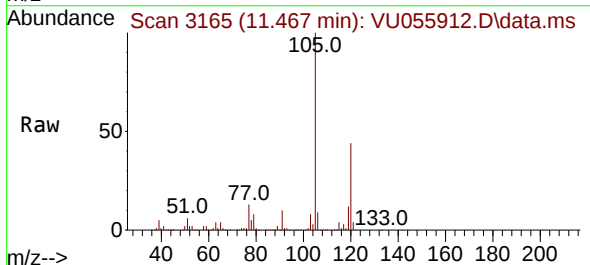
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

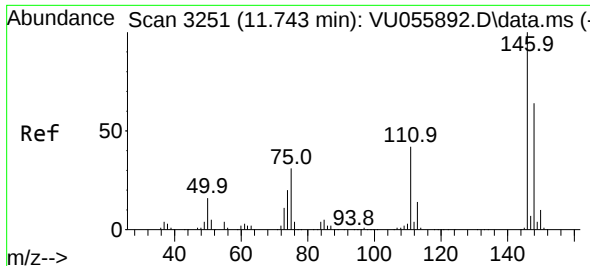
Tgt Ion:105 Resp: 975026  
Ion Ratio Lower Upper  
105 100  
120 46.3 37.7 56.5



#63  
1,2,4-Trimethylbenzene  
Concen: 58.003 ug/L  
RT: 11.467 min Scan# 3165  
Delta R.T. 0.000 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion:105 Resp: 970862  
Ion Ratio Lower Upper  
105 100  
120 43.8 35.0 52.4

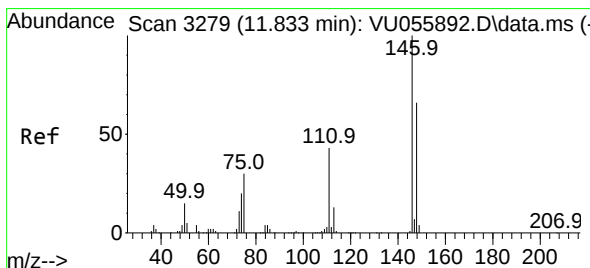
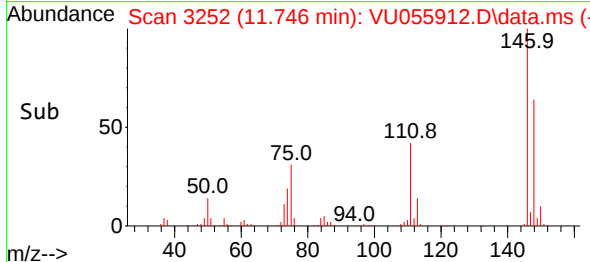
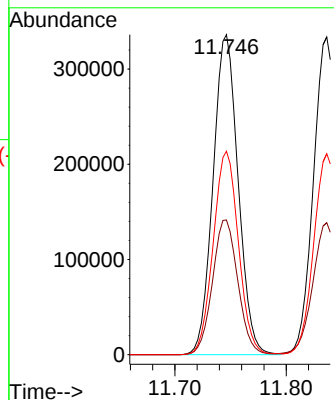
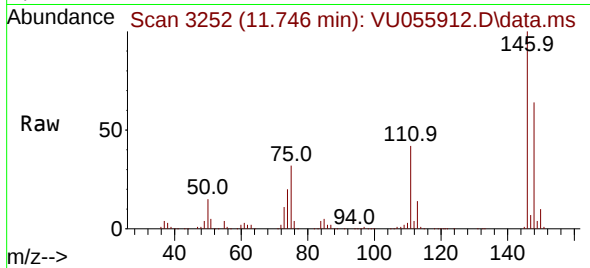




#64  
1,3-Dichlorobenzene  
Concen: 50.838 ug/L  
RT: 11.746 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

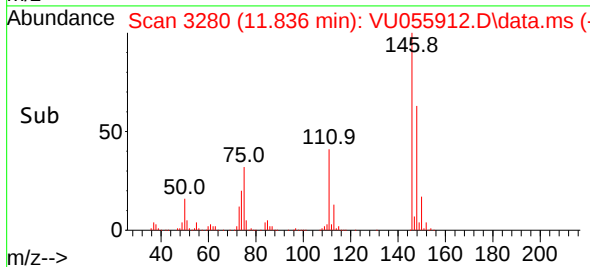
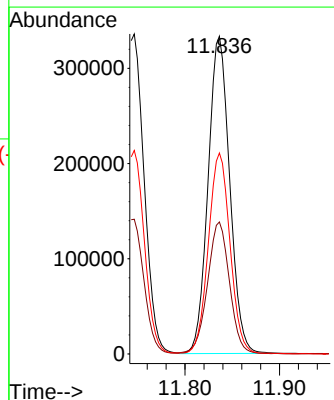
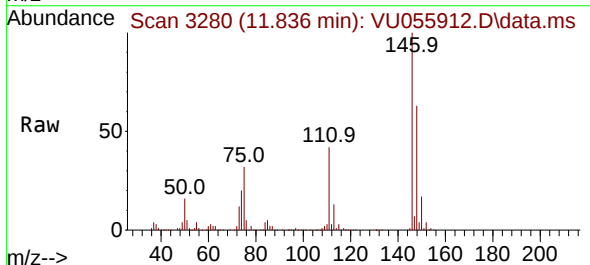
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

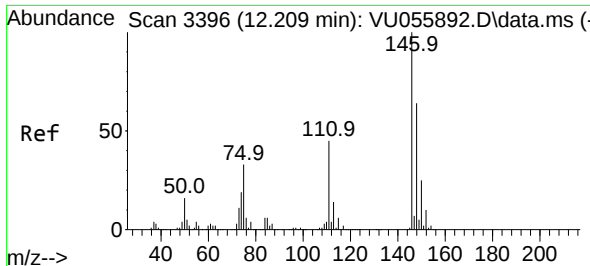
Tgt Ion:146 Resp: 525740  
Ion Ratio Lower Upper  
146 100  
111 42.1 29.7 55.1  
148 63.6 45.0 83.6



#65  
1,4-Dichlorobenzene  
Concen: 49.751 ug/L  
RT: 11.836 min Scan# 3280  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion:146 Resp: 528970  
Ion Ratio Lower Upper  
146 100  
111 41.5 28.6 53.0  
148 63.3 44.2 82.0

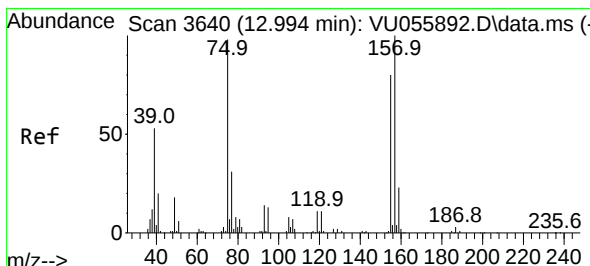
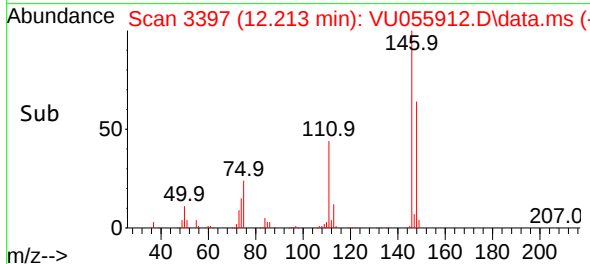
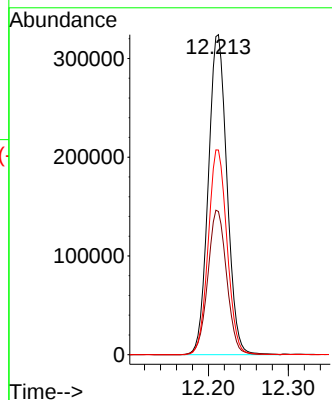
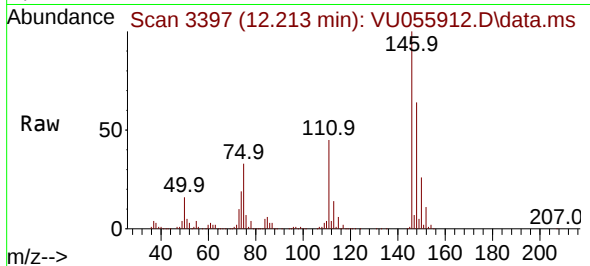




#67  
1,2-Dichlorobenzene  
Concen: 51.296 ug/L  
RT: 12.213 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

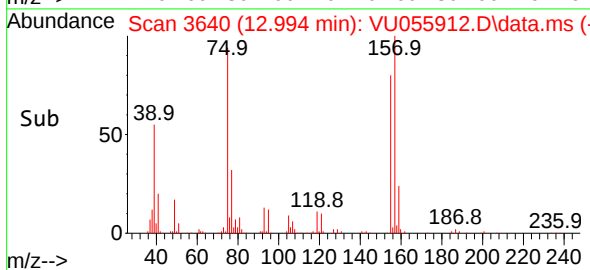
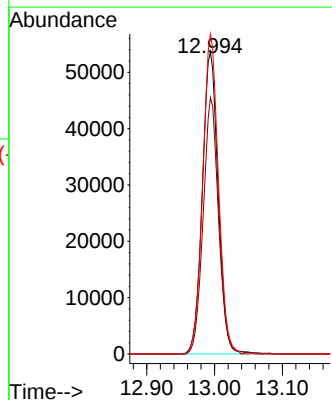
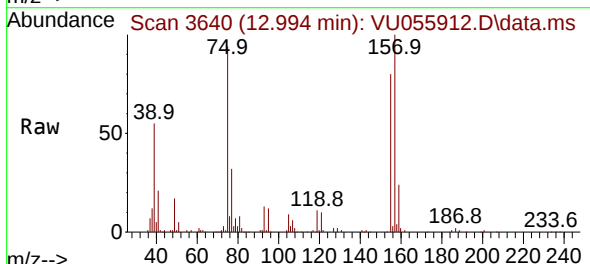
Instrument :  
MSVOA\_U  
ClientSampleId :  
E0LJ3MEMS

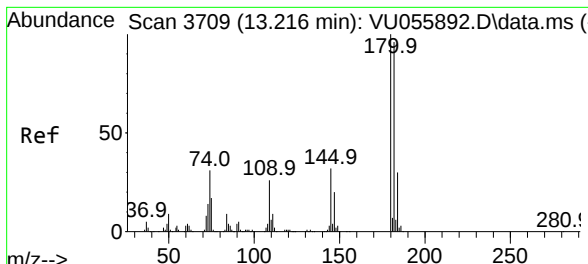
Tgt Ion:146 Resp: 526431  
Ion Ratio Lower Upper  
146 100  
111 44.7 35.2 52.8  
148 64.0 52.3 78.5



#68  
1,2-Dibromo-3-chloropropane  
Concen: 39.999 ug/L  
RT: 12.994 min Scan# 3640  
Delta R.T. 0.000 min  
Lab File: VU055912.D  
Acq: 26 Oct 2023 18:00

Tgt Ion: 75 Resp: 87090  
Ion Ratio Lower Upper  
75 100  
155 84.9 59.6 89.4  
157 105.9 77.7 116.5

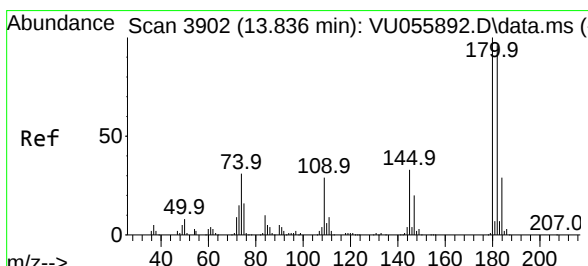
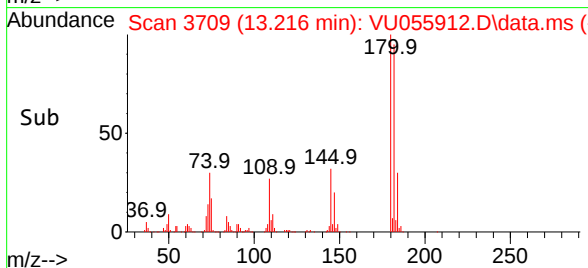
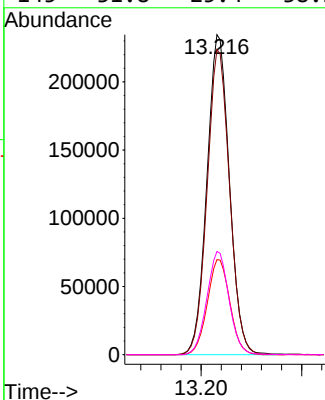
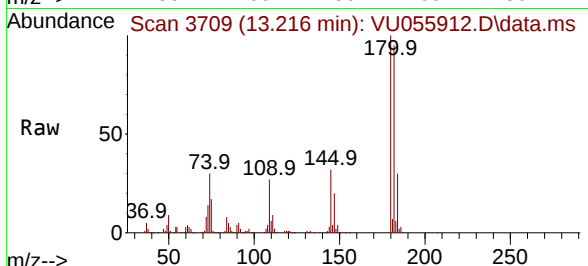




#69  
 1,3,5-Trichlorobenzene  
 Concen: 52.707 ug/L  
 RT: 13.216 min Scan# 3709  
 Delta R.T. 0.000 min  
 Lab File: VU055912.D  
 Acq: 26 Oct 2023 18:00

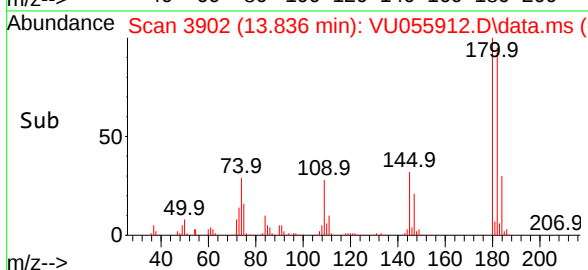
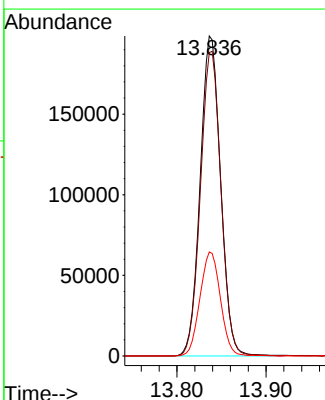
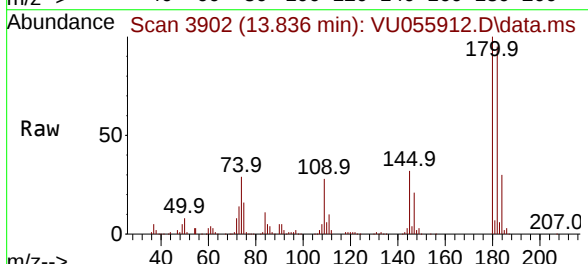
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 MSVOA\_U  
 ClientSampleId :  
 E0LJ3MEMS

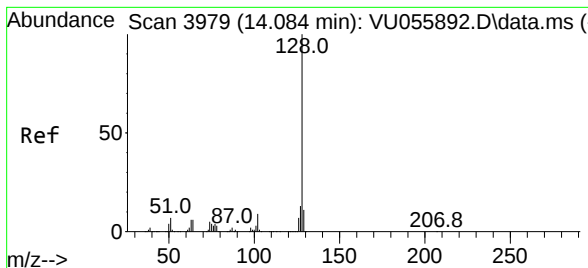
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 363573 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.2  | 76.2  | 114.2  |
| 184       | 29.8  | 23.9  | 35.9   |
| 145       | 31.8  | 25.4  | 38.2   |



#70  
 1,2,4-trichlorobenzene  
 Concen: 55.024 ug/L  
 RT: 13.836 min Scan# 3902  
 Delta R.T. 0.000 min  
 Lab File: VU055912.D  
 Acq: 26 Oct 2023 18:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 316150 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.4  | 75.4  | 113.2  |
| 145       | 32.4  | 26.1  | 39.1   |





#71

Naphthalene

Concen: 56.523 ug/L

RT: 14.084 min Scan# 3979

Delta R.T. 0.000 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Instrument :

MSVOA\_U

ClientSampleId :

E0LJ3MEMS

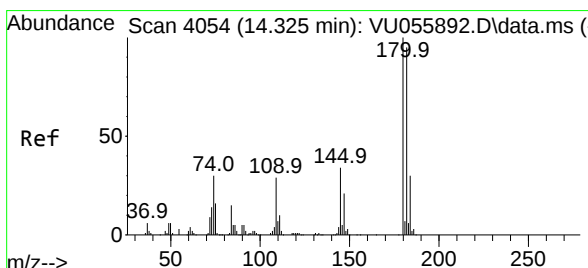
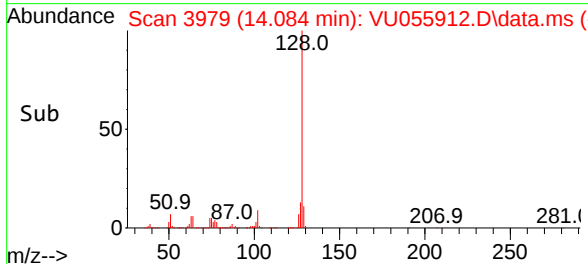
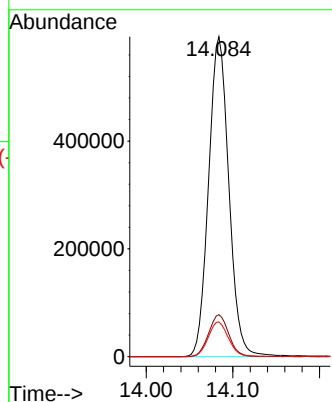
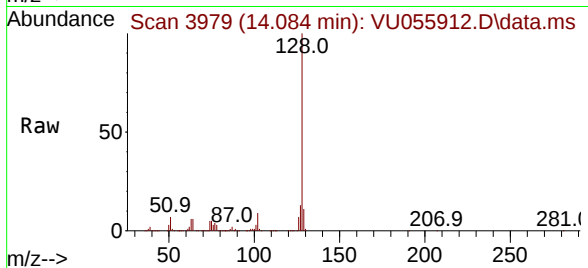
Tgt Ion:128 Resp: 964722

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

129 10.9 8.7 13.1



#72

1,2,3-Trichlorobenzene

Concen: 55.698 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. 0.000 min

Lab File: VU055912.D

Acq: 26 Oct 2023 18:00

Tgt Ion:180 Resp: 315523

Ion Ratio Lower Upper

180 100

182 94.0 78.1 117.1

145 34.6 27.4 41.0

