

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021924\  
 Data File : VU057884.D  
 Acq On : 19 Feb 2024 16:33  
 Operator : MD/SY  
 Sample : VSTD05061  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Feb 20 01:18:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM021924WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 20 01:16:43 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Difluorobenzene        | 6.238  | 114  | 284309   | 50.000  | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117  | 274330   | 50.000  | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152  | 143219   | 50.000  | ug/L  | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65   | 107085   | 47.759  | ug/L  | 0.00     |
| 7) Chloroethane-d5            | 1.885  | 69   | 79785    | 46.490  | ug/L  | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.557  | 63   | 195672   | 47.560  | ug/L  | 0.00     |
| 21) 2-Butanone-d5             | 4.611  | 46   | 87329    | 74.041  | ug/L  | 0.00     |
| 24) Chloroform-d              | 5.052  | 84   | 183019   | 46.316  | ug/L  | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.692  | 65   | 116802   | 46.658  | ug/L  | 0.00     |
| 32) Benzene-d6                | 5.717  | 84   | 362963   | 45.065  | ug/L  | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67   | 117025   | 45.833  | ug/L  | 0.00     |
| 41) Toluene-d8                | 7.891  | 98   | 328056   | 45.068  | ug/L  | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79   | 55740    | 44.857  | ug/L  | 0.00     |
| 47) 2-Hexanone-d5             | 8.627  | 63   | 87714    | 85.597  | ug/L  | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84   | 159094   | 47.485  | ug/L  | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152  | 120957   | 45.245  | ug/L  | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.377  | 85   | 149019   | 57.673  | ug/L  | 100      |
| 3) Chloromethane              | 1.515  | 50   | 145431   | 59.285  | ug/L  | 100      |
| 5) Vinyl chloride             | 1.599  | 62   | 146570   | 57.426  | ug/L  | 100      |
| 6) Bromomethane               | 1.824  | 94   | 52186    | 36.894  | ug/L  | 100      |
| 8) Chloroethane               | 1.907  | 64   | 85223    | 56.549  | ug/L  | 100      |
| 9) Trichlorofluoromethane     | 2.123  | 101  | 183626   | 52.640  | ug/L  | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.570  | 101  | 110841   | 53.880  | ug/L  | 100      |
| 12) 1,1-Dichloroethene        | 2.566  | 96   | 98430    | 52.383  | ug/L  | 100      |
| 13) Acetone                   | 2.611  | 43   | 139894   | 88.948  | ug/L  | 100      |
| 14) Carbon disulfide          | 2.779  | 76   | 319965   | 54.658  | ug/L  | 100      |
| 15) Methyl Acetate            | 2.933  | 43   | 111926   | 53.436  | ug/L  | 100      |
| 16) Methylene chloride        | 3.033  | 84   | 114486   | 52.459  | ug/L  | 100      |
| 17) trans-1,2-Dichloroethene  | 3.338  | 96   | 101824   | 53.044  | ug/L  | 100      |
| 18) Methyl tert-butyl Ether   | 3.348  | 73   | 352250   | 52.386  | ug/L  | 100      |
| 19) 1,1-Dichloroethane        | 3.853  | 63   | 209458   | 54.178  | ug/L  | 100      |
| 20) cis-1,2-Dichloroethene    | 4.653  | 96   | 116525   | 52.609  | ug/L  | 100      |
| 22) 2-Butanone                | 4.685  | 43   | 166906   | 97.376  | ug/L  | 100      |
| 23) Bromochloromethane        | 4.962  | 128  | 55974    | 51.831  | ug/L  | 100      |
| 25) Chloroform                | 5.078  | 83   | 206872   | 52.584  | ug/L  | 100      |
| 27) 1,2-Dichloroethane        | 5.782  | 62   | 169371   | 51.942  | ug/L  | 100      |
| 29) Cyclohexane               | 5.377  | 56   | 196044   | 54.393  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane     | 5.306  | 97   | 176890   | 50.323  | ug/L  | 100      |
| 31) Carbon tetrachloride      | 5.515  | 117  | 155647   | 50.771  | ug/L  | 100      |
| 33) Benzene                   | 5.762  | 78   | 455680   | 52.480  | ug/L  | 100      |
| 34) Trichloroethene           | 6.534  | 95   | 119255   | 51.317  | ug/L  | 100      |
| 35) Methylcyclohexane         | 6.756  | 83   | 199470   | 53.377  | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.782  | 63   | 127778   | 53.226  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.097  | 83   | 152041   | 51.085  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.598  | 75   | 200560   | 51.960  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.782  | 43   | 320567   | 107.425 | ug/L  | 100      |
| 42) Toluene                   | 7.962  | 91   | 477028   | 52.502  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.203  | 75   | 184625   | 52.103  | ug/L  | 100      |

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 Sample : VSTD05061  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

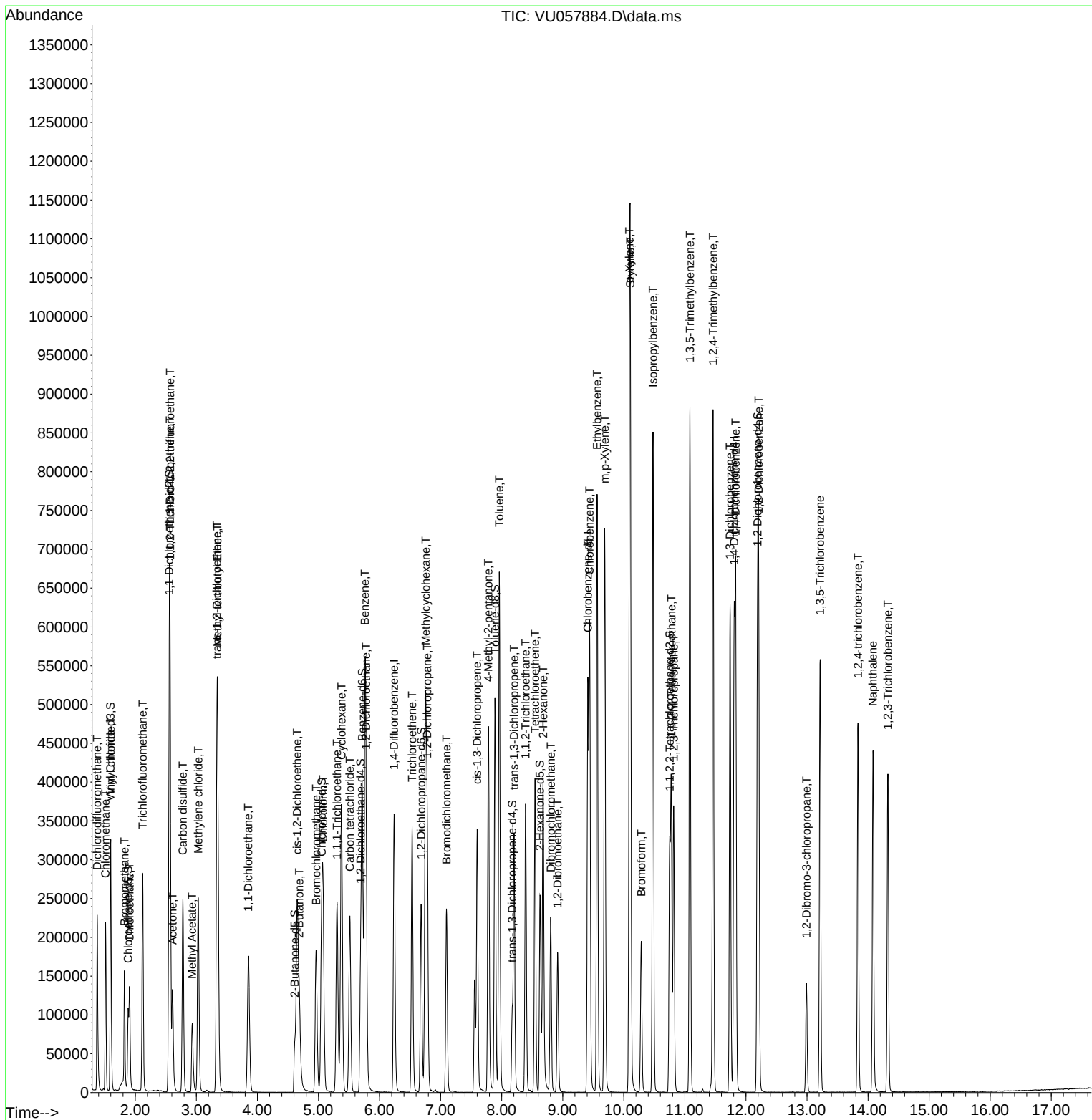
Instrument :  
 MSVOA\_U  
 ClientSampleId :

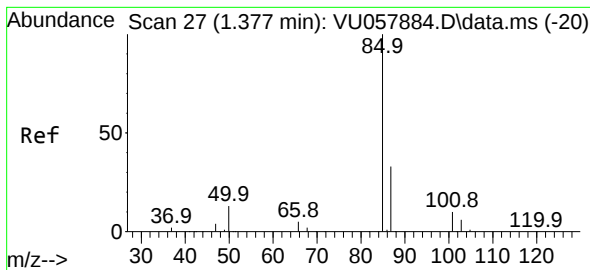
Quant Time: Feb 20 01:18:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM021924WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 20 01:16:43 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 111676   | 51.040  | ug/L  | 100      |
| 46) Tetrachloroethene         | 8.547  | 164  | 82461    | 51.239  | ug/L  | 100      |
| 48) 2-Hexanone                | 8.679  | 43   | 266367   | 103.469 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.804  | 129  | 113009   | 51.318  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 119419   | 51.131  | ug/L  | 100      |
| 51) Chlorobenzene             | 9.441  | 112  | 297226   | 51.740  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.563  | 91   | 538156   | 52.226  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.688  | 106  | 197728   | 52.451  | ug/L  | 100      |
| 54) o-Xylene                  | 10.093 | 106  | 195467   | 52.971  | ug/L  | 100      |
| 55) Styrene                   | 10.110 | 104  | 339446   | 54.780  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 194364   | 54.262  | ug/L  | 100      |
| 59) Bromoform                 | 10.286 | 173  | 83254    | 50.390  | ug/L  | 100      |
| 60) 1,2,3-Trichloropropane    | 10.817 | 75   | 153557   | 51.098  | ug/L  | 100      |
| 61) Isopropylbenzene          | 10.479 | 105  | 535161   | 51.441  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 469906   | 53.407  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 474784   | 53.789  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 236572   | 52.229  | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 239060   | 51.370  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146  | 231852   | 50.903  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.990 | 75   | 37343    | 49.671  | ug/L  | 100      |
| 69) 1,3,5-Trichlorobenzene    | 13.215 | 180  | 160339   | 50.922  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 132670   | 49.588  | ug/L  | 100      |
| 71) Naphthalene               | 14.080 | 128  | 345218   | 48.274  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 121124   | 48.350  | ug/L  | 100      |
| -----                         |        |      |          |         |       |          |

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

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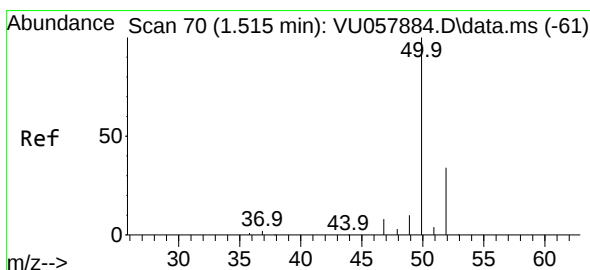
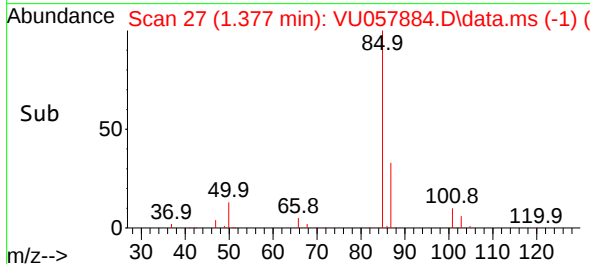
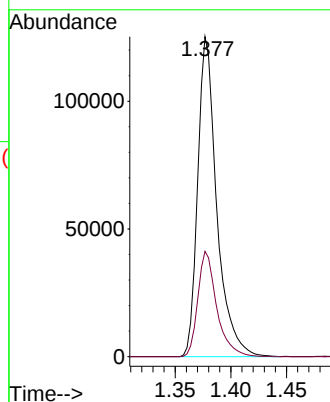
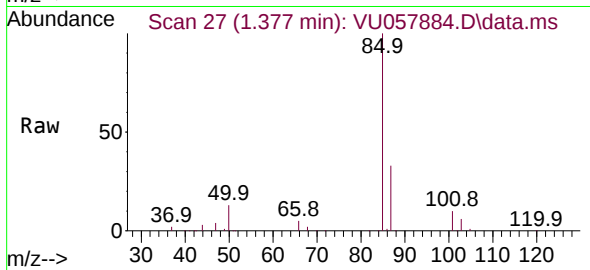




#2  
 Dichlorodifluoromethane  
 Concen: 57.673 ug/L  
 RT: 1.377 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VU057884.D  
 Acq: 19 Feb 2024 16:33

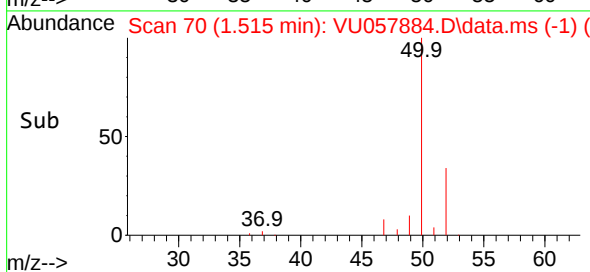
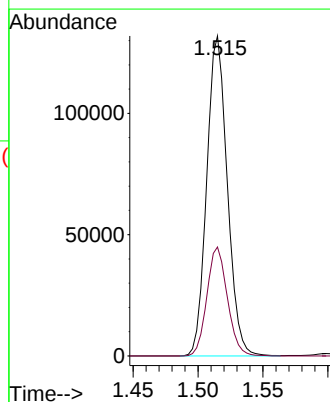
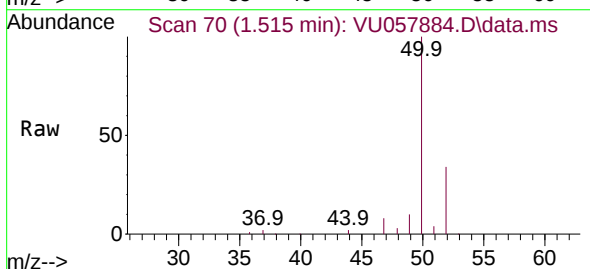
Instrument :  
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 ClientSampleId :

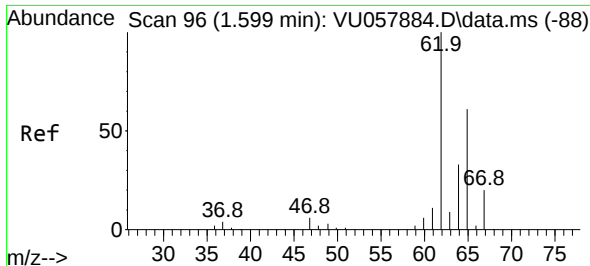
Tgt Ion: 85 Resp: 149019  
 Ion Ratio Lower Upper  
 85 100  
 87 32.7 26.2 39.2



#3  
 Chloromethane  
 Concen: 59.285 ug/L  
 RT: 1.515 min Scan# 70  
 Delta R.T. 0.000 min  
 Lab File: VU057884.D  
 Acq: 19 Feb 2024 16:33

Tgt Ion: 50 Resp: 145431  
 Ion Ratio Lower Upper  
 50 100  
 52 34.0 23.8 44.2

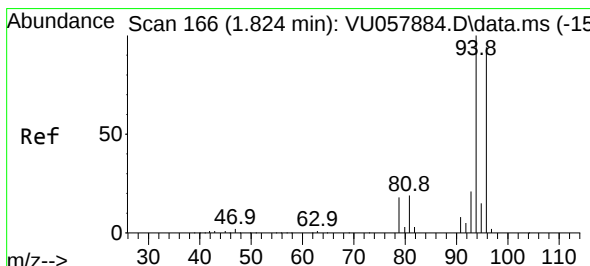
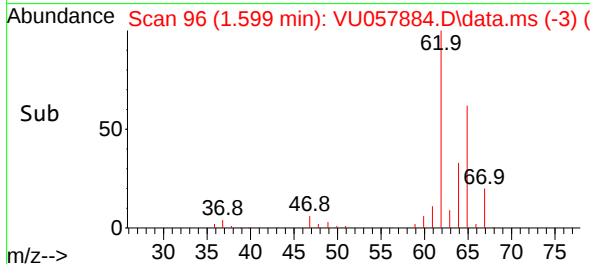
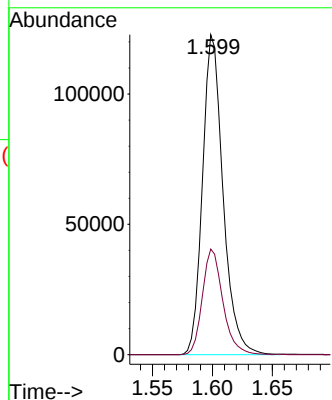
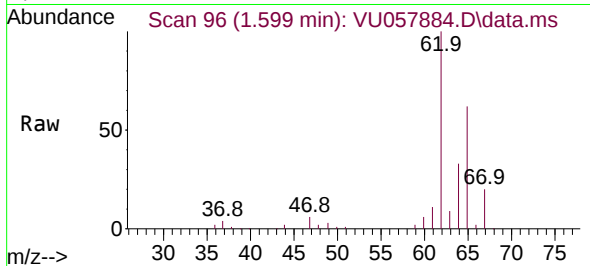




#5  
 Vinyl chloride  
 Concen: 57.426 ug/L  
 RT: 1.599 min Scan# 96  
 Delta R.T. 0.000 min  
 Lab File: VU057884.D  
 Acq: 19 Feb 2024 16:33

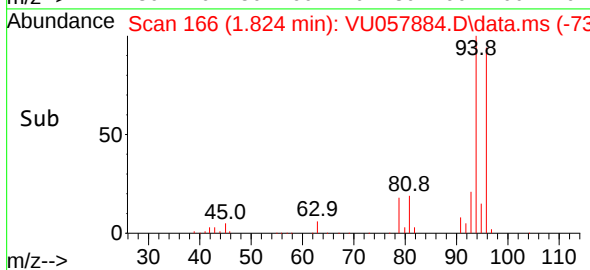
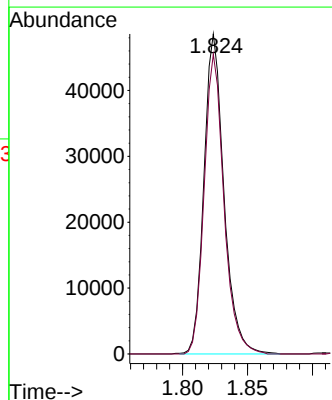
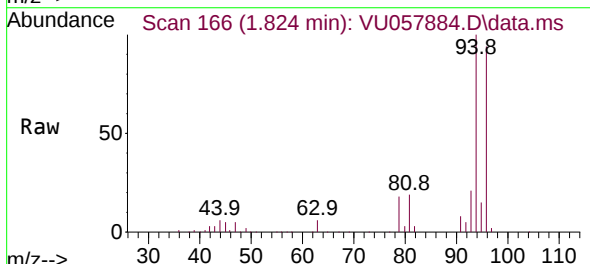
Instrument :  
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 ClientSampleId :

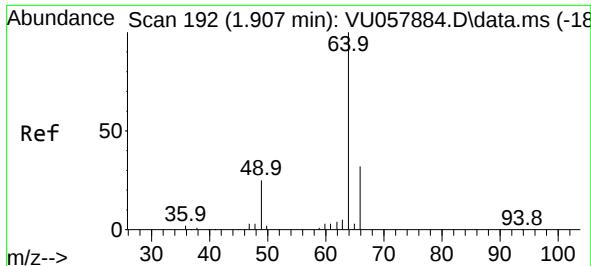
Tgt Ion: 62 Resp: 146570  
 Ion Ratio Lower Upper  
 62 100  
 64 33.0 23.1 42.9



#6  
 Bromomethane  
 Concen: 36.894 ug/L  
 RT: 1.824 min Scan# 166  
 Delta R.T. 0.000 min  
 Lab File: VU057884.D  
 Acq: 19 Feb 2024 16:33

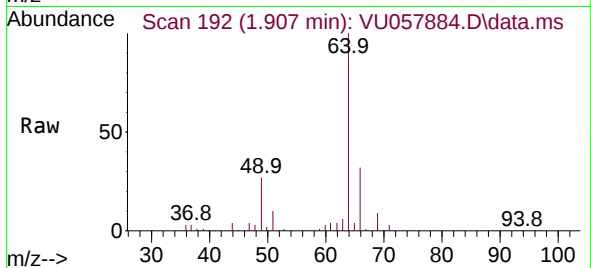
Tgt Ion: 94 Resp: 52186  
 Ion Ratio Lower Upper  
 94 100  
 96 93.6 65.5 121.7



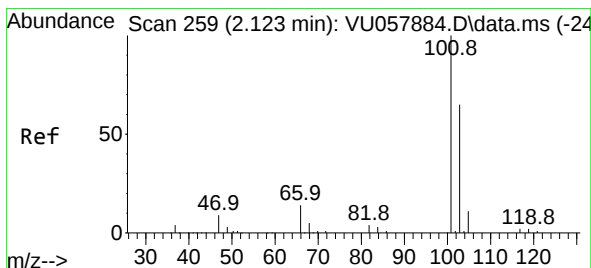
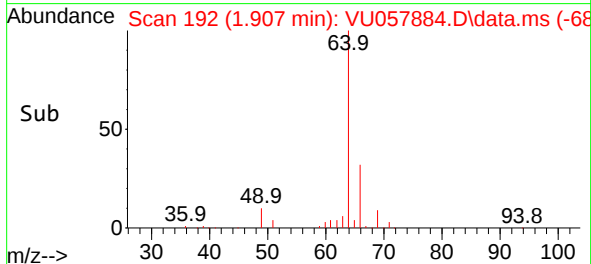
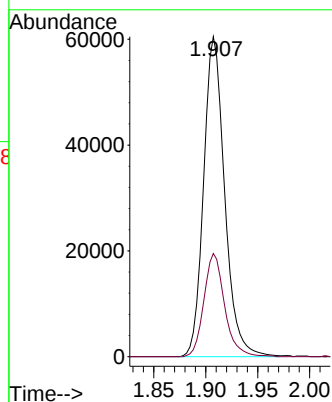


#8  
Chloroethane  
Concen: 56.549 ug/L  
RT: 1.907 min Scan# 192  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Instrument :  
MSVOA\_U  
ClientSampleId :

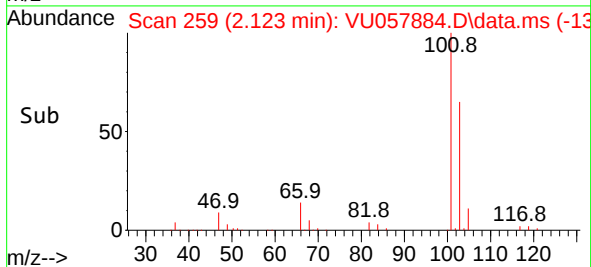
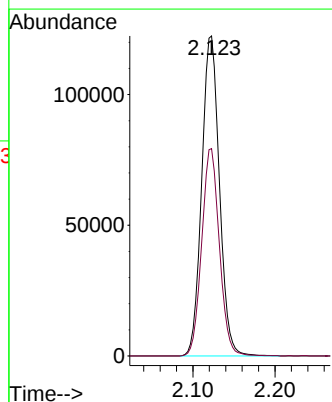
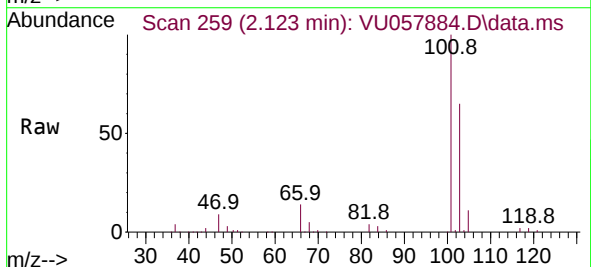


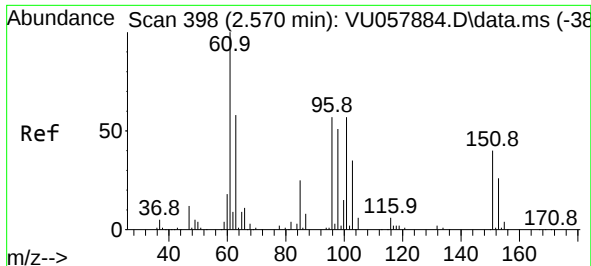
Tgt Ion: 64 Resp: 85223  
Ion Ratio Lower Upper  
64 100  
66 32.2 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 52.640 ug/L  
RT: 2.123 min Scan# 259  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion:101 Resp: 183626  
Ion Ratio Lower Upper  
101 100  
103 64.6 51.7 77.5

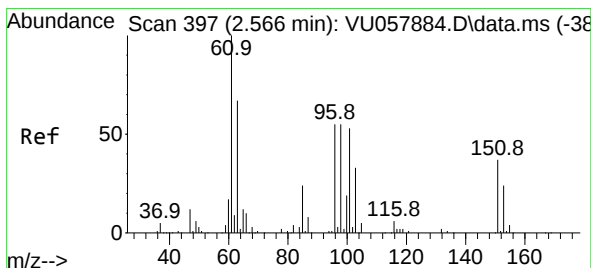
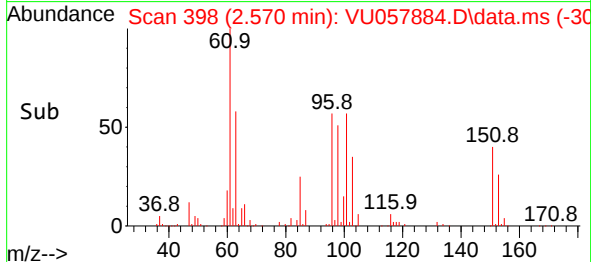
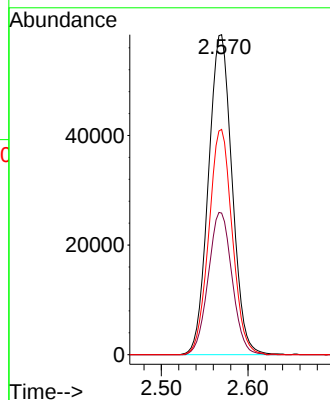
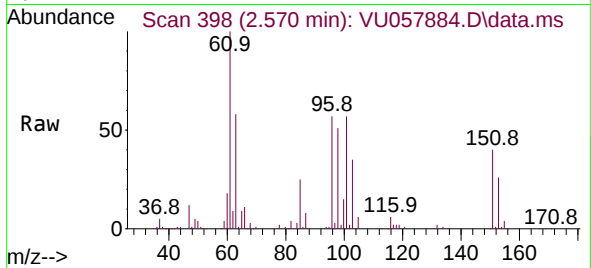




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 53.880 ug/L  
 RT: 2.570 min Scan# 398  
 Delta R.T. 0.000 min  
 Lab File: VU057884.D  
 Acq: 19 Feb 2024 16:33

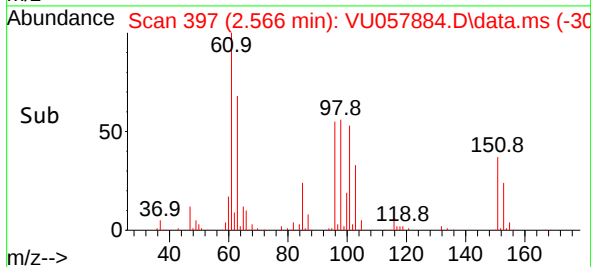
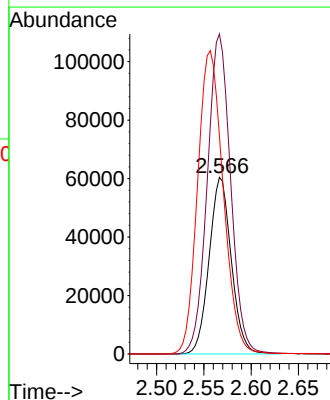
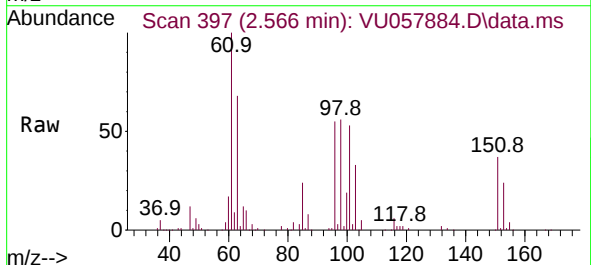
Instrument :  
 MSVOA\_U  
 ClientSampleId :

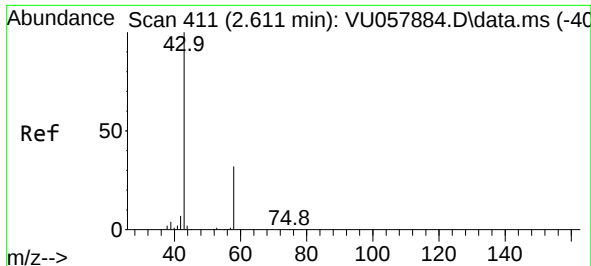
Tgt Ion:101 Resp: 110841  
 Ion Ratio Lower Upper  
 101 100  
 85 44.6 35.7 53.5  
 151 69.7 55.8 83.6



#12  
 1,1-Dichloroethene  
 Concen: 52.383 ug/L  
 RT: 2.566 min Scan# 397  
 Delta R.T. 0.000 min  
 Lab File: VU057884.D  
 Acq: 19 Feb 2024 16:33

Tgt Ion: 96 Resp: 98430  
 Ion Ratio Lower Upper  
 96 100  
 61 181.2 126.8 235.6  
 63 123.6 86.5 160.7





#13

Acetone

Concen: 88.948 ug/L

RT: 2.611 min Scan# 411

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

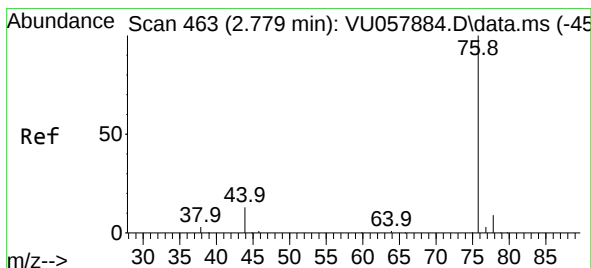
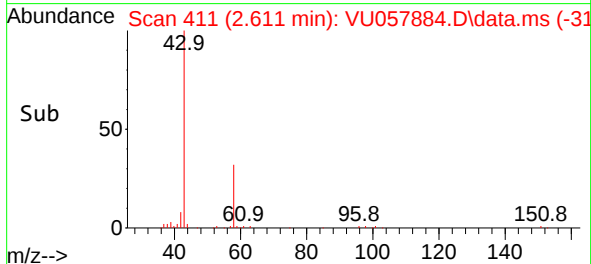
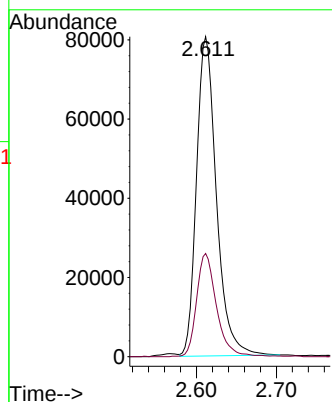
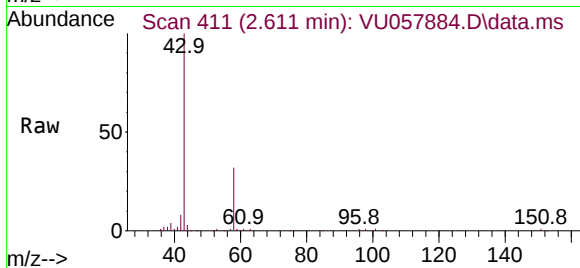
ClientSampleId :

Tgt Ion: 43 Resp: 139894

Ion Ratio Lower Upper

43 100

58 32.1 0.0 64.2



#14

Carbon disulfide

Concen: 54.658 ug/L

RT: 2.779 min Scan# 463

Delta R.T. 0.000 min

Lab File: VU057884.D

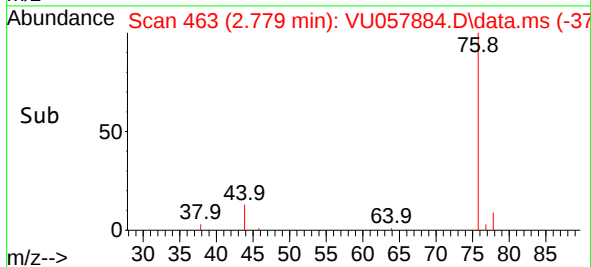
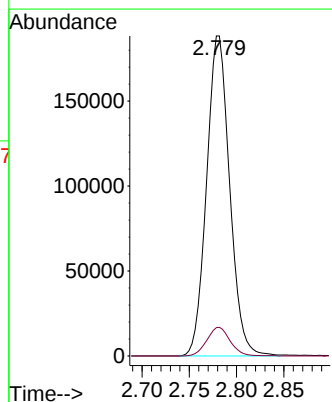
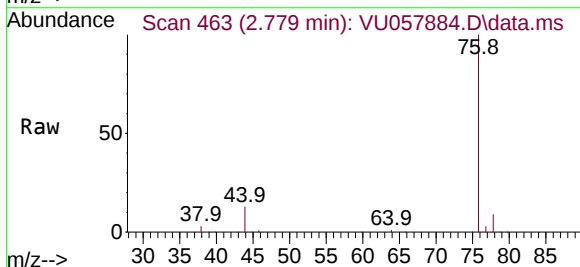
Acq: 19 Feb 2024 16:33

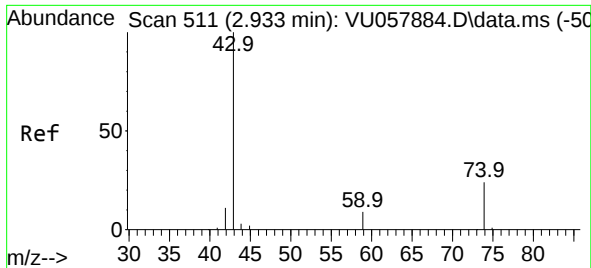
Tgt Ion: 76 Resp: 319965

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7

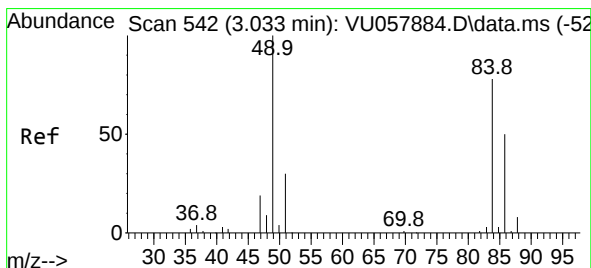
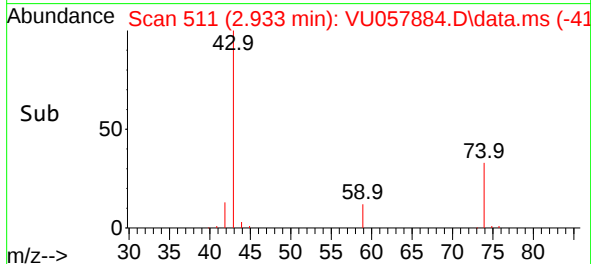
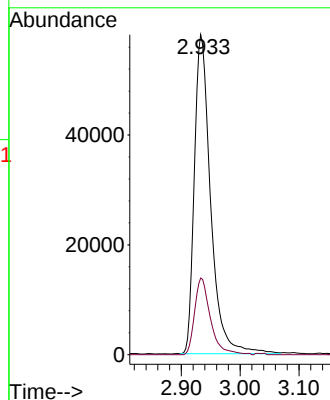
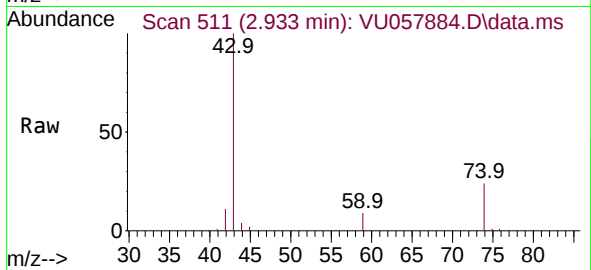




#15  
Methyl Acetate  
Concen: 53.436 ug/L  
RT: 2.933 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

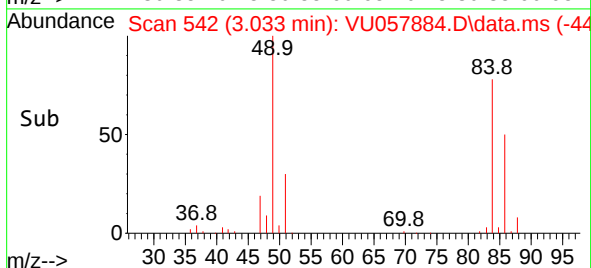
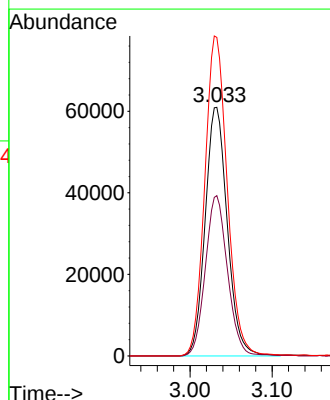
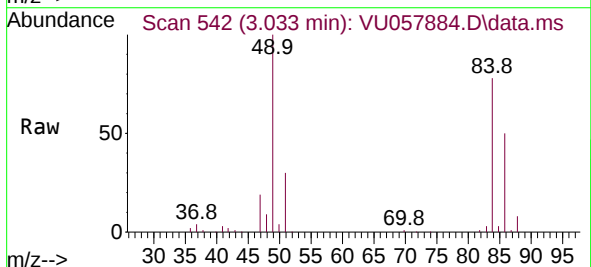
Instrument :  
MSVOA\_U  
ClientSampleId :

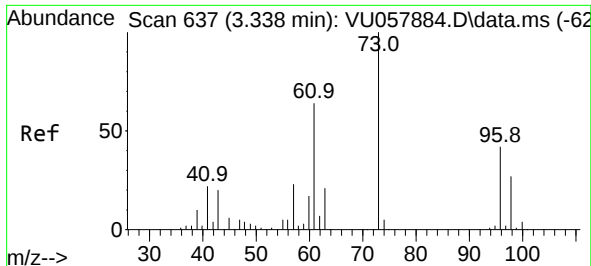
Tgt Ion: 43 Resp: 111926  
Ion Ratio Lower Upper  
43 100  
74 23.2 18.6 27.8



#16  
Methylene chloride  
Concen: 52.459 ug/L  
RT: 3.033 min Scan# 542  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion: 84 Resp: 114486  
Ion Ratio Lower Upper  
84 100  
86 64.4 45.1 83.7  
49 128.1 89.7 166.5

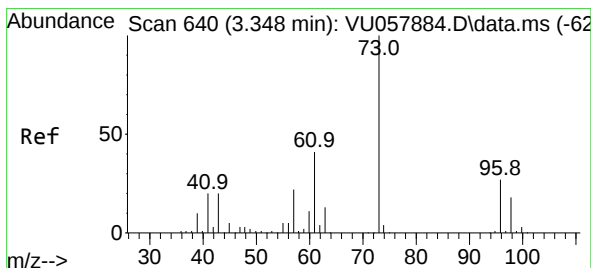
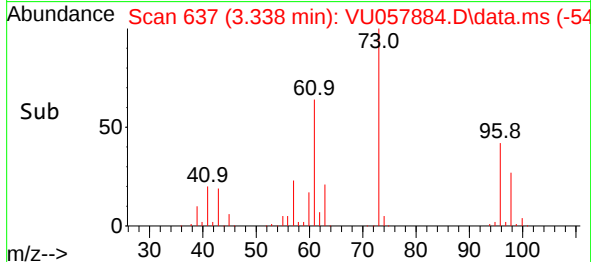
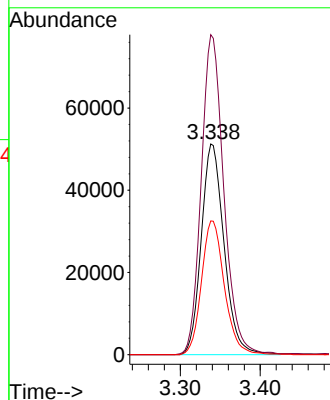
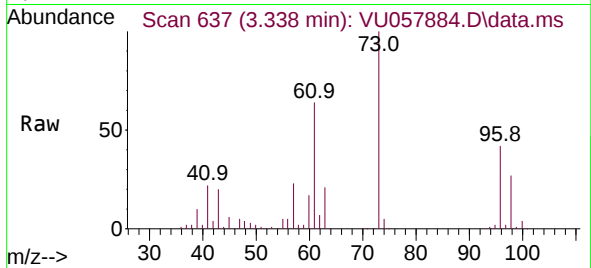




#17  
trans-1,2-Dichloroethene  
Concen: 53.044 ug/L  
RT: 3.338 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

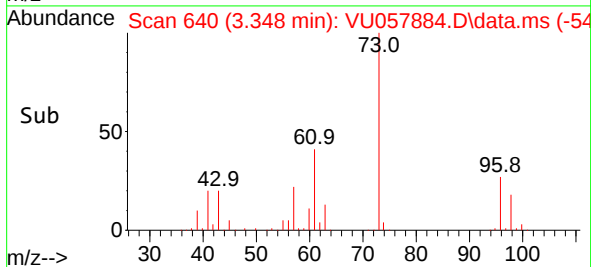
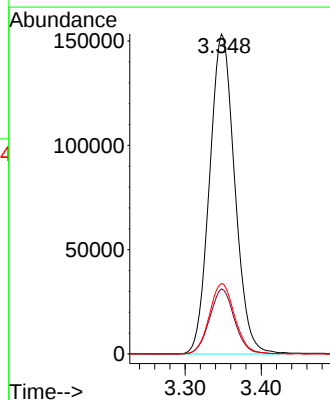
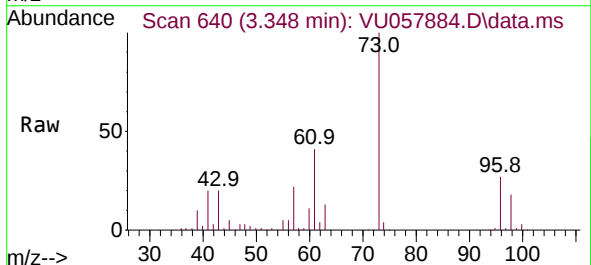
Instrument :  
MSVOA\_U  
ClientSampleId :

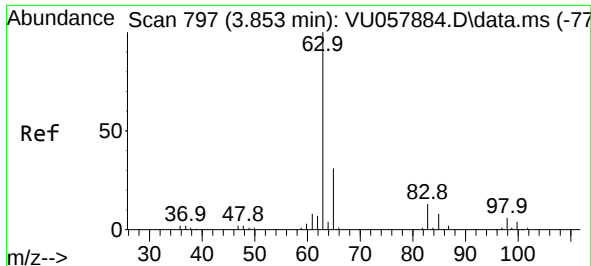
Tgt Ion: 96 Resp: 101824  
Ion Ratio Lower Upper  
96 100  
61 151.8 106.3 197.3  
98 63.5 44.4 82.5



#18  
Methyl tert-butyl Ether  
Concen: 52.386 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion: 73 Resp: 352250  
Ion Ratio Lower Upper  
73 100  
43 20.0 16.0 24.0  
57 22.2 17.8 26.6





#19

1,1-Dichloroethane

Concen: 54.178 ug/L

RT: 3.853 min Scan# 797

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

ClientSampleId :

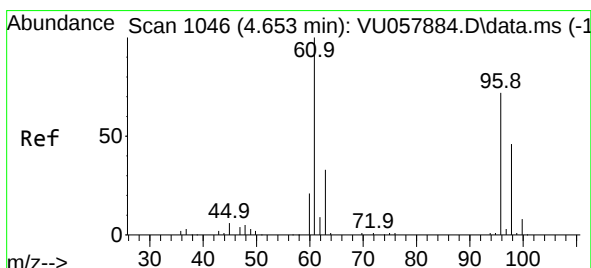
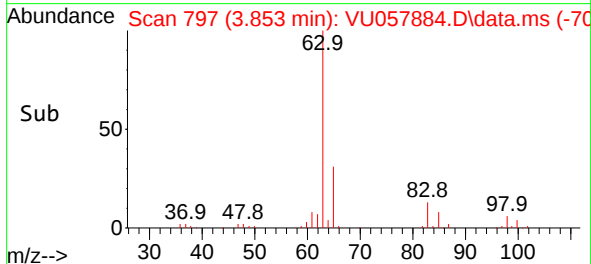
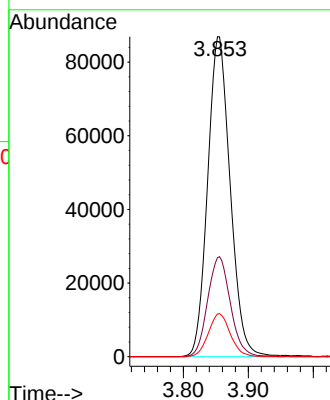
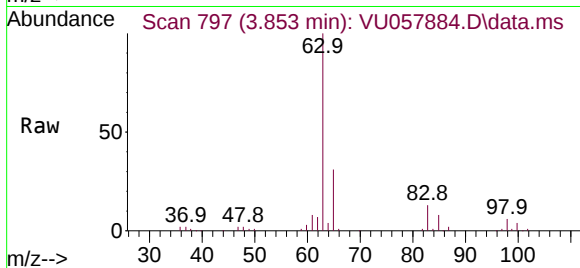
Tgt Ion: 63 Resp: 209458

Ion Ratio Lower Upper

63 100

65 31.0 21.7 40.3

83 13.4 9.4 17.4



#20

cis-1,2-Dichloroethene

Concen: 52.609 ug/L

RT: 4.653 min Scan# 1046

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

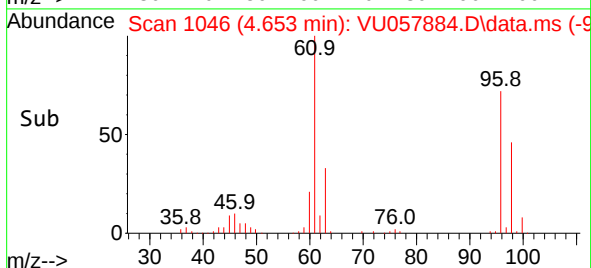
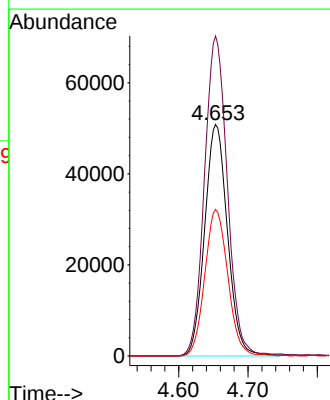
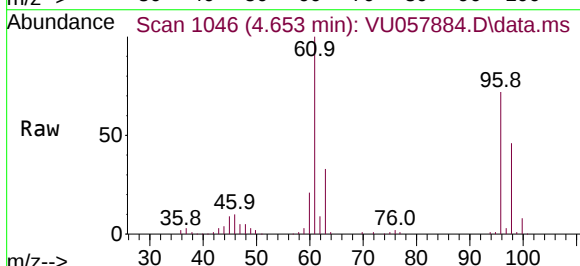
Tgt Ion: 96 Resp: 116525

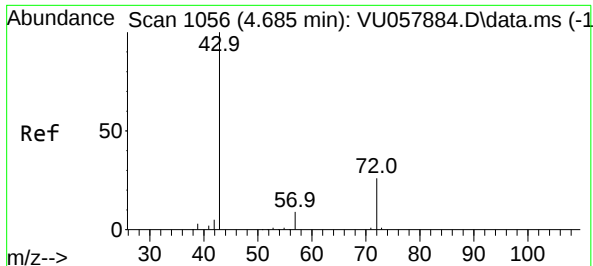
Ion Ratio Lower Upper

96 100

61 138.2 96.7 179.7

98 63.3 44.3 82.3





#22

2-Butanone

Concen: 97.376 ug/L

RT: 4.685 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

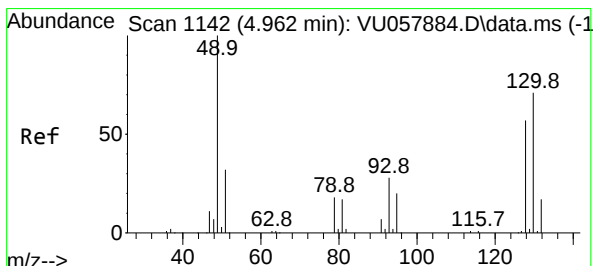
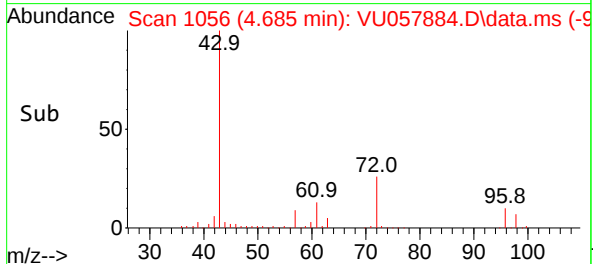
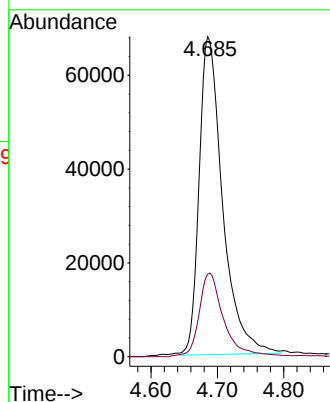
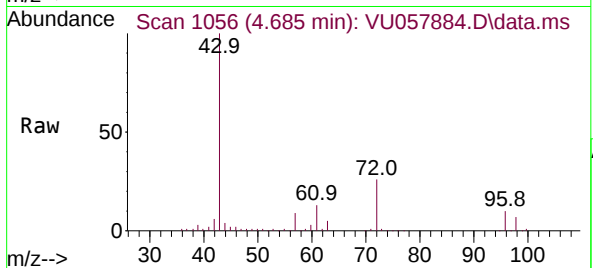
ClientSampleId :

Tgt Ion: 43 Resp: 166906

Ion Ratio Lower Upper

43 100

72 27.5 13.8 41.3



#23

Bromochloromethane

Concen: 51.831 ug/L

RT: 4.962 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Tgt Ion: 128 Resp: 55974

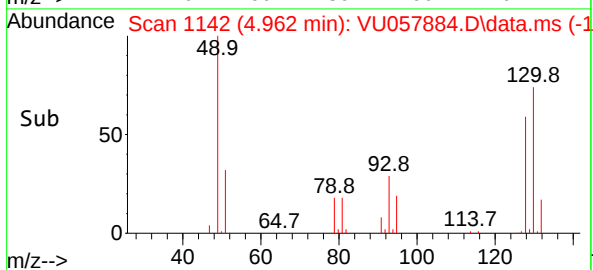
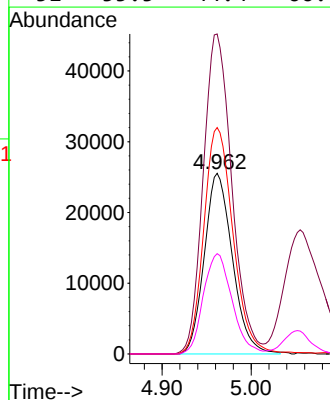
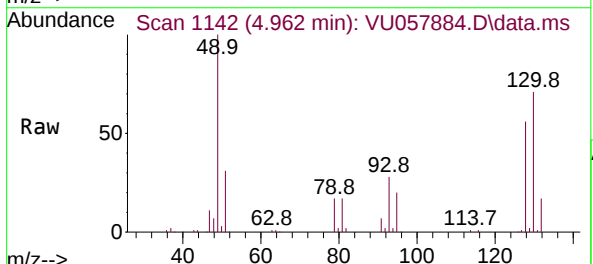
Ion Ratio Lower Upper

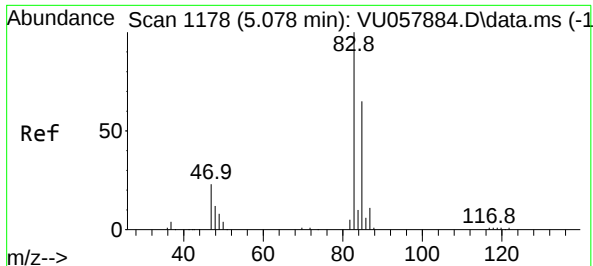
128 100

49 177.2 124.0 230.4

130 125.4 87.8 163.0

51 55.5 44.4 66.6





#25

Chloroform

Concen: 52.584 ug/L

RT: 5.078 min Scan# 1178

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

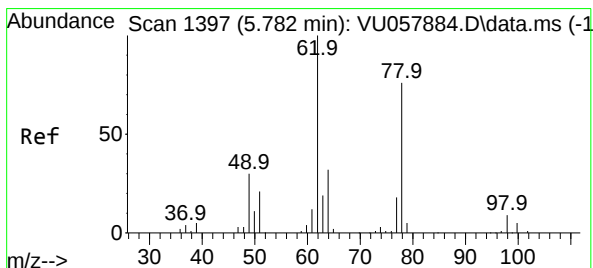
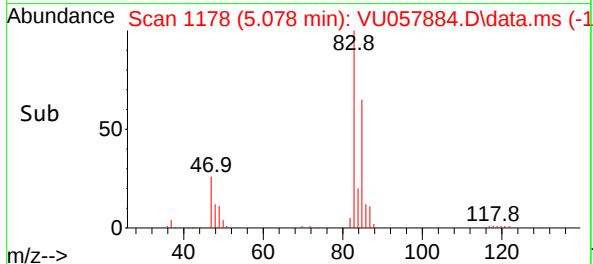
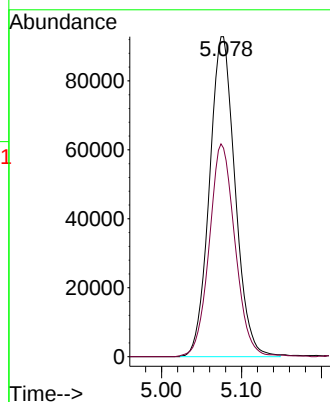
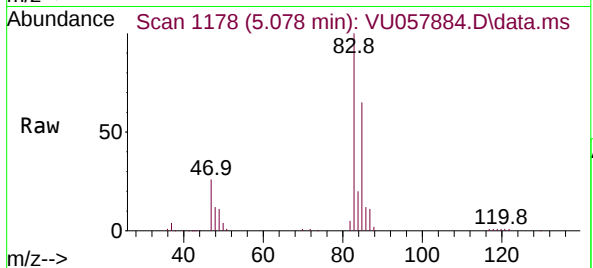
ClientSampleId :

Tgt Ion: 83 Resp: 206872

Ion Ratio Lower Upper

83 100

85 65.1 45.6 84.6



#27

1,2-Dichloroethane

Concen: 51.942 ug/L

RT: 5.782 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VU057884.D

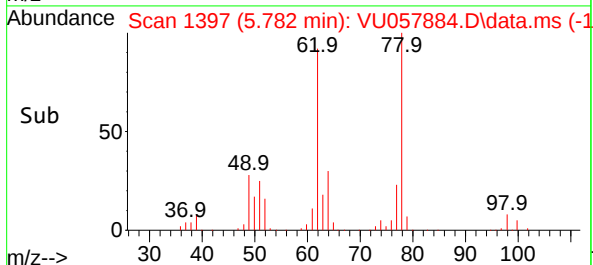
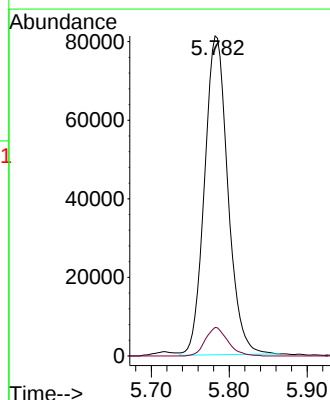
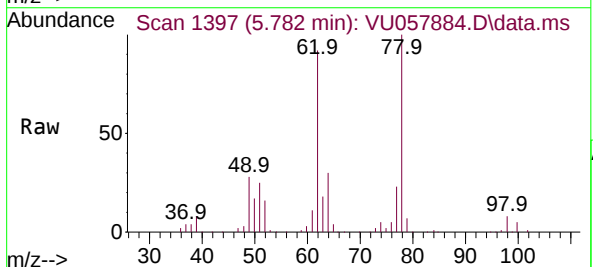
Acq: 19 Feb 2024 16:33

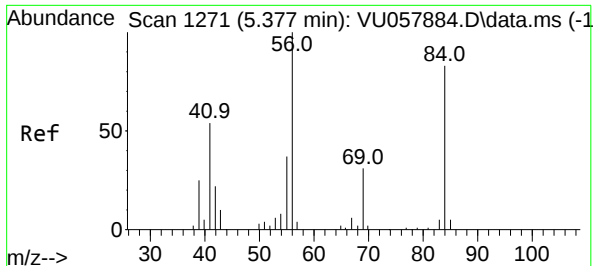
Tgt Ion: 62 Resp: 169371

Ion Ratio Lower Upper

62 100

98 8.9 7.1 10.7





#29

Cyclohexane

Concen: 54.393 ug/L

RT: 5.377 min Scan# 1271

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

ClientSampleId :

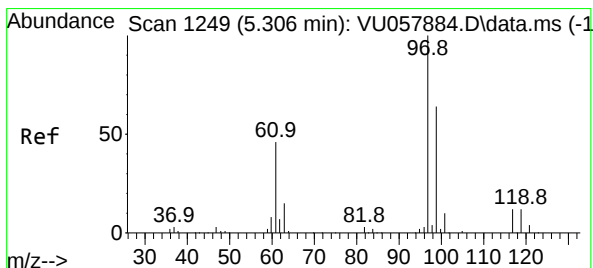
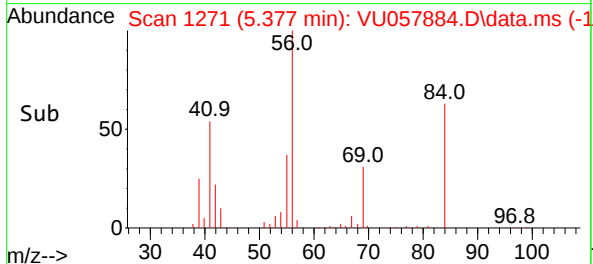
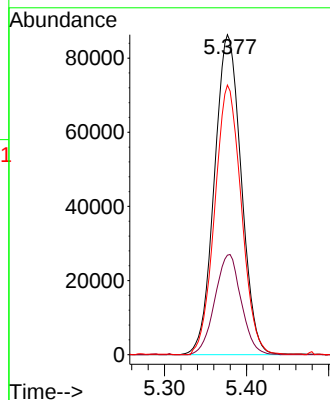
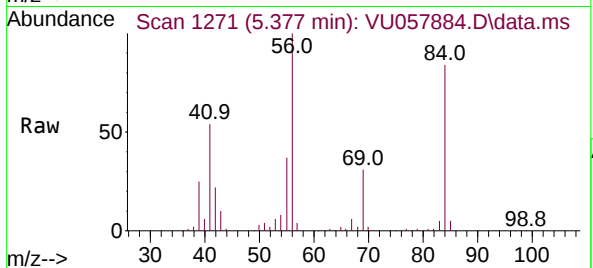
Tgt Ion: 56 Resp: 196044

Ion Ratio Lower Upper

56 100

69 30.7 24.6 36.8

84 83.6 66.9 100.3



#30

1,1,1-Trichloroethane

Concen: 50.323 ug/L

RT: 5.306 min Scan# 1249

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

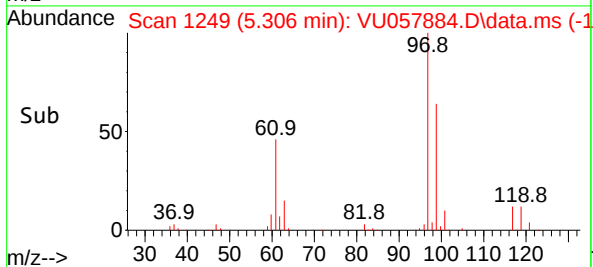
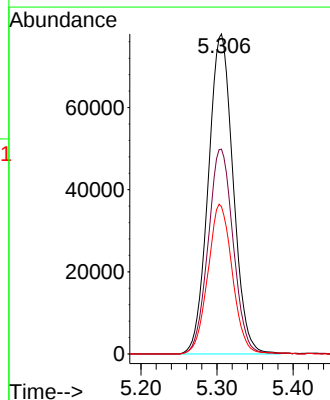
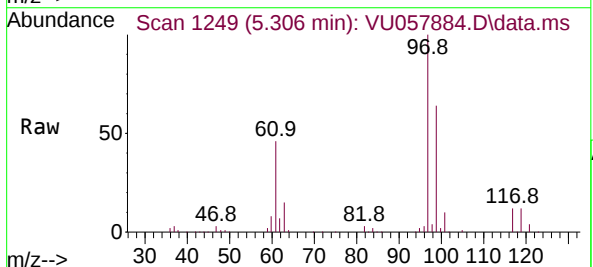
Tgt Ion: 97 Resp: 176890

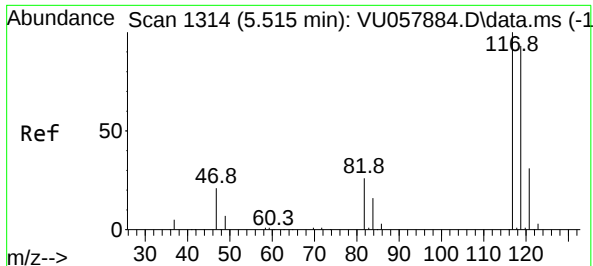
Ion Ratio Lower Upper

97 100

99 64.5 51.6 77.4

61 46.0 36.8 55.2

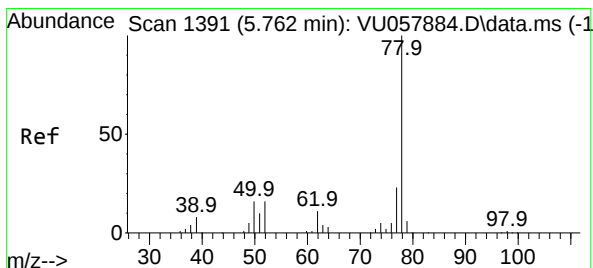
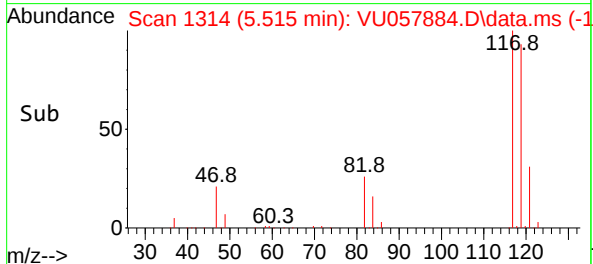
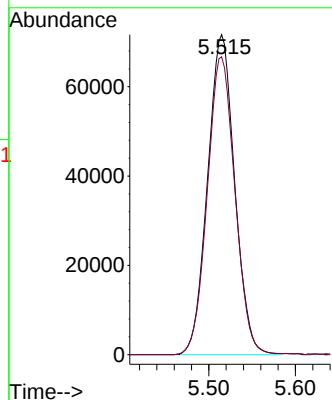
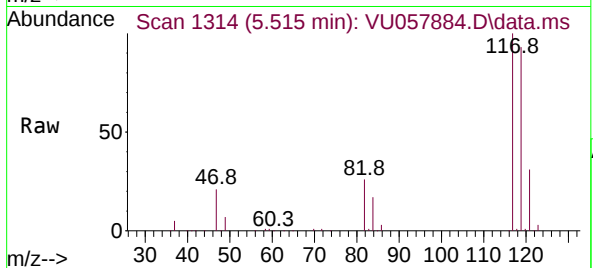




#31  
Carbon tetrachloride  
Concen: 50.771 ug/L  
RT: 5.515 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

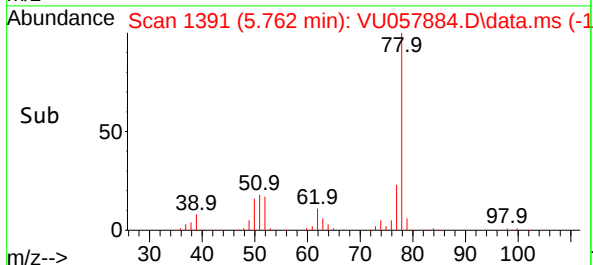
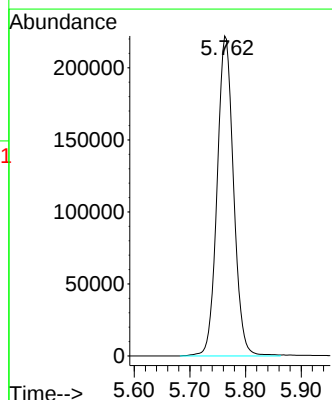
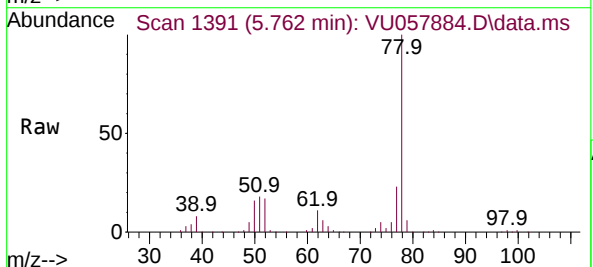
Instrument :  
MSVOA\_U  
ClientSampleId :

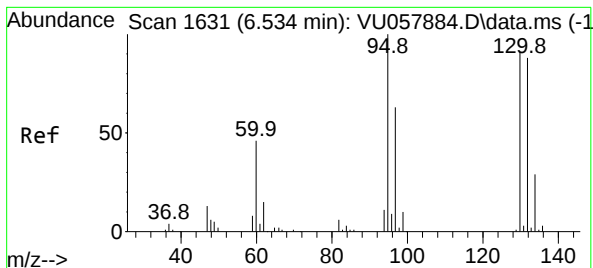
Tgt Ion:117 Resp: 155647  
Ion Ratio Lower Upper  
117 100  
119 94.9 75.9 113.9



#33  
Benzene  
Concen: 52.480 ug/L  
RT: 5.762 min Scan# 1391  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion: 78 Resp: 455680





#34

Trichloroethene

Concen: 51.317 ug/L

RT: 6.534 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 95 Resp: 119255

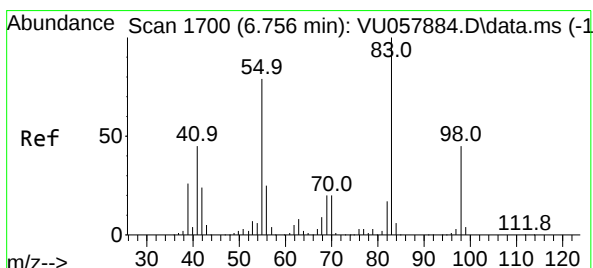
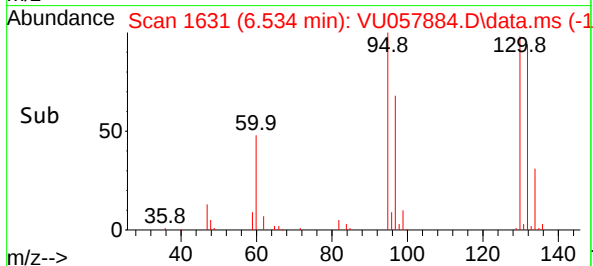
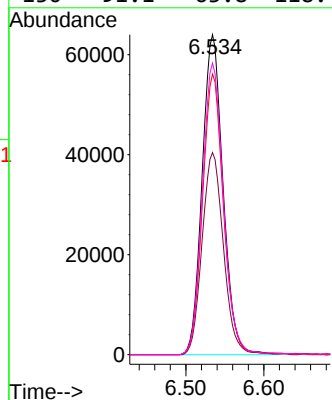
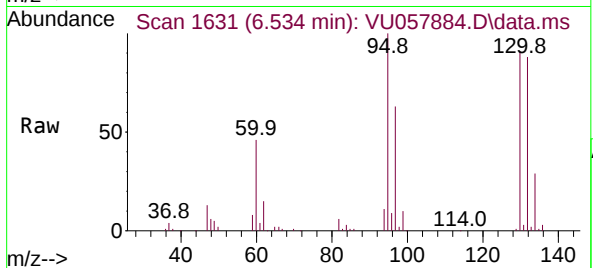
Ion Ratio Lower Upper

95 100

97 63.2 44.2 82.2

132 87.7 61.4 114.0

130 91.1 63.8 118.4



#35

Methylcyclohexane

Concen: 53.377 ug/L

RT: 6.756 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

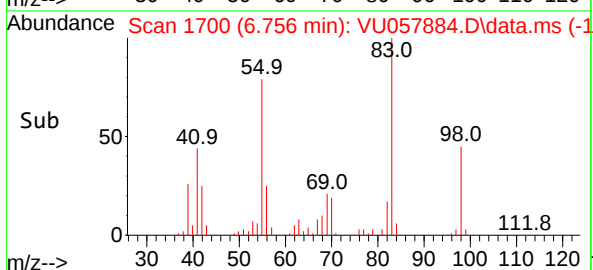
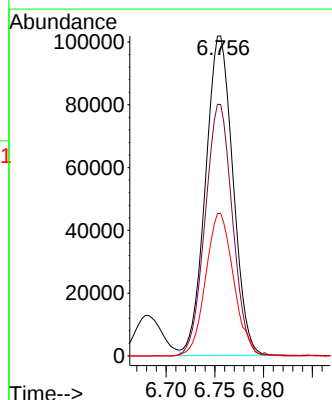
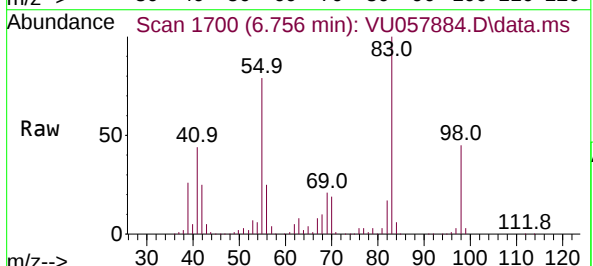
Tgt Ion: 83 Resp: 199470

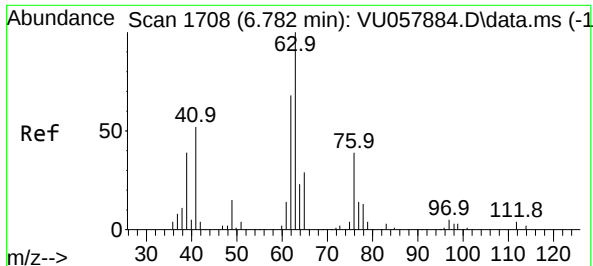
Ion Ratio Lower Upper

83 100

55 78.4 62.7 94.1

98 45.4 36.3 54.5





#37

1,2-Dichloropropane

Concen: 53.226 ug/L

RT: 6.782 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

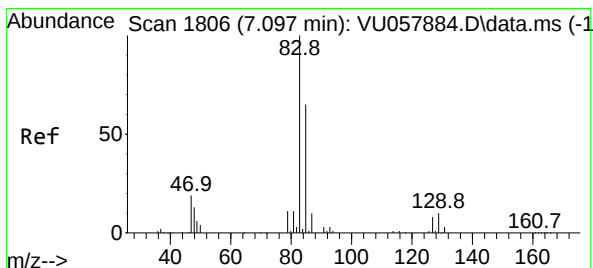
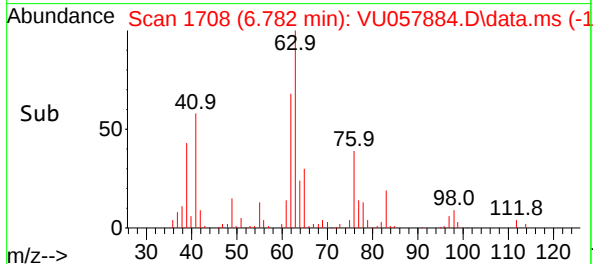
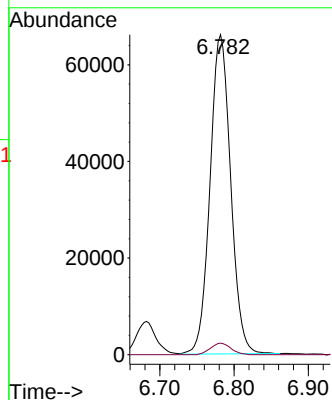
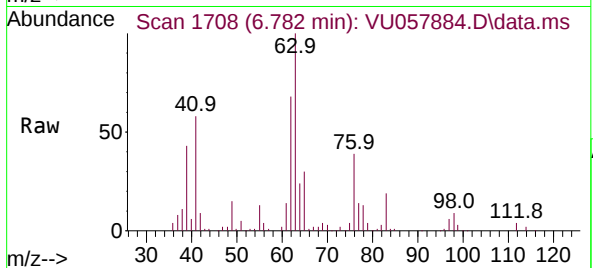
ClientSampleId :

Tgt Ion: 63 Resp: 127778

Ion Ratio Lower Upper

63 100

112 3.6 2.9 4.3



#38

Bromodichloromethane

Concen: 51.085 ug/L

RT: 7.097 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

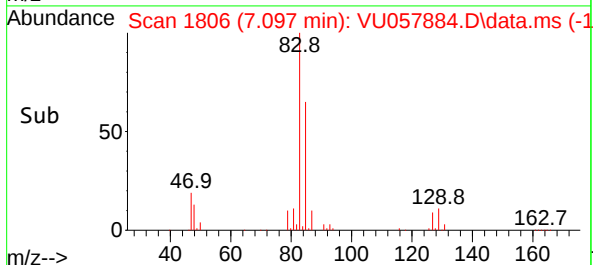
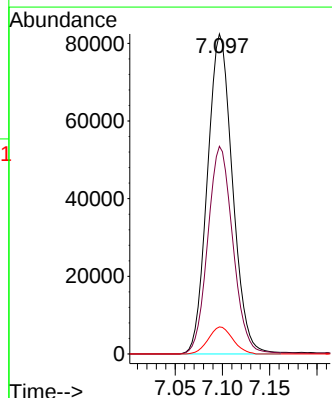
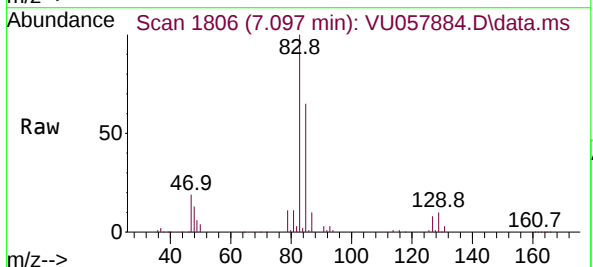
Tgt Ion: 83 Resp: 152041

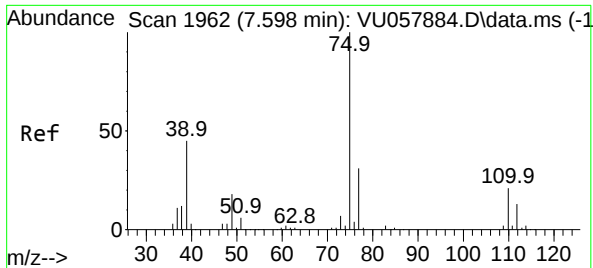
Ion Ratio Lower Upper

83 100

85 64.9 45.4 84.4

127 9.4 7.5 11.3

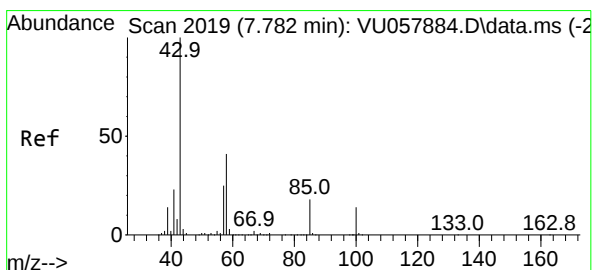
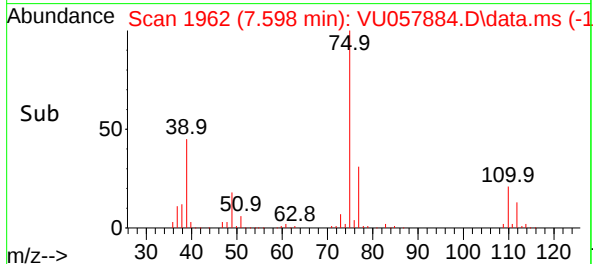
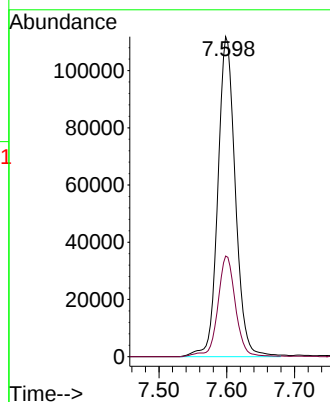
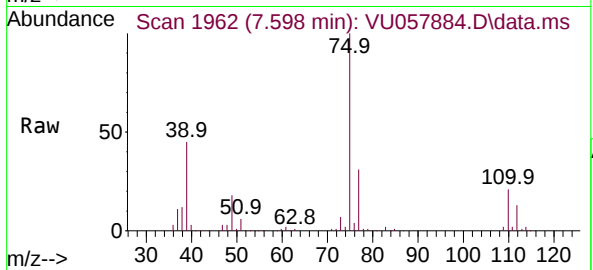




#39  
cis-1,3-Dichloropropene  
Concen: 51.960 ug/L  
RT: 7.598 min Scan# 1962  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

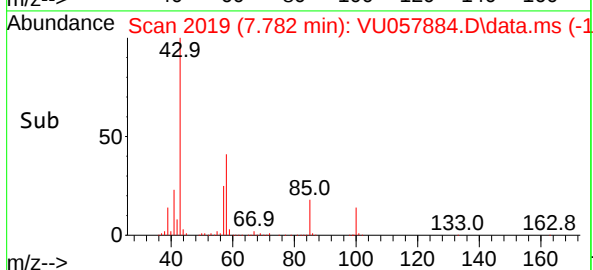
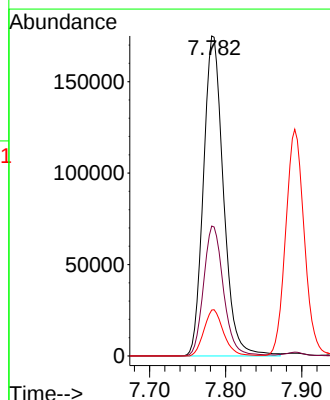
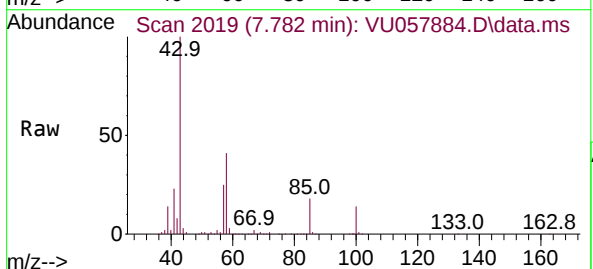
Instrument :  
MSVOA\_U  
ClientSampleId :

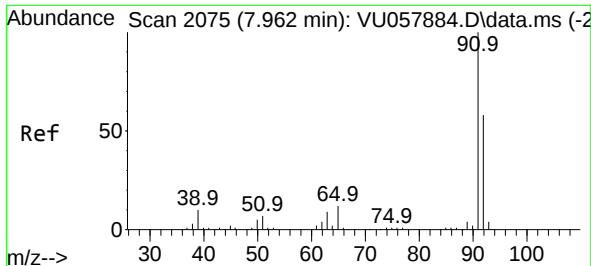
Tgt Ion: 75 Resp: 200560  
Ion Ratio Lower Upper  
75 100  
77 31.5 22.0 41.0



#40  
4-Methyl-2-pentanone  
Concen: 107.425 ug/L  
RT: 7.782 min Scan# 2019  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion: 43 Resp: 320567  
Ion Ratio Lower Upper  
43 100  
58 40.4 32.3 48.5  
100 14.2 11.4 17.0





#42

Toluene

Concen: 52.502 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

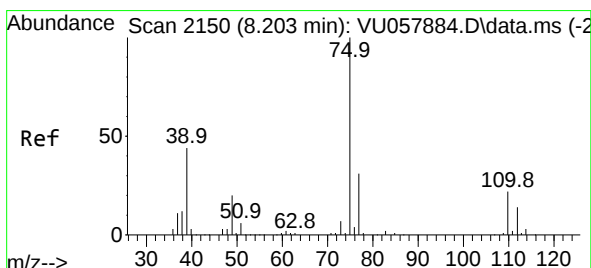
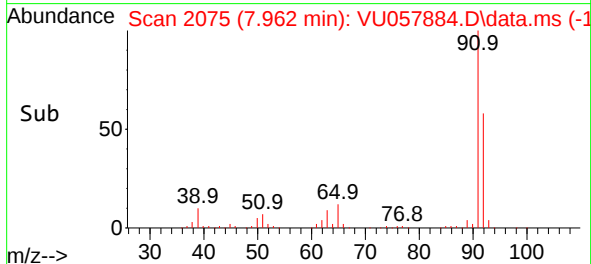
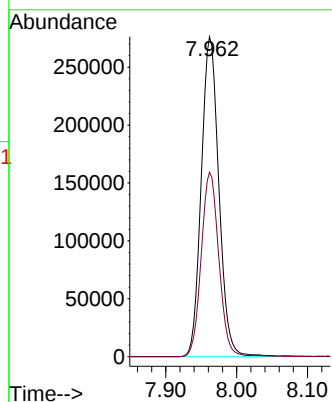
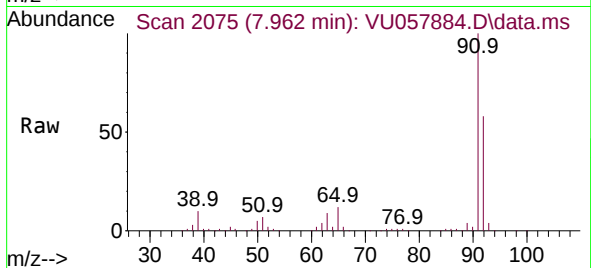
ClientSampleId :

Tgt Ion: 91 Resp: 477028

Ion Ratio Lower Upper

91 100

92 57.6 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 52.103 ug/L

RT: 8.203 min Scan# 2150

Delta R.T. 0.000 min

Lab File: VU057884.D

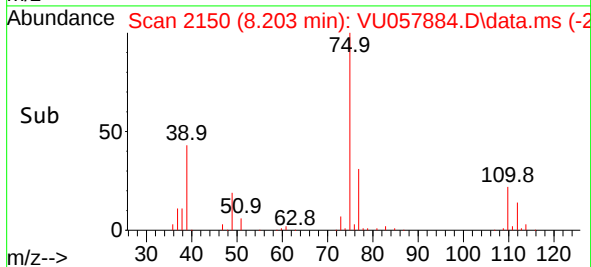
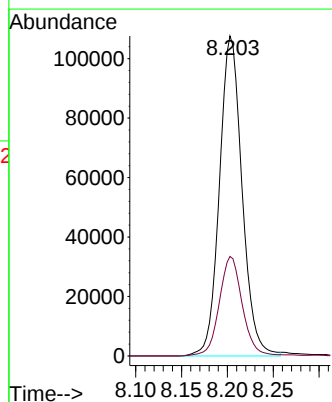
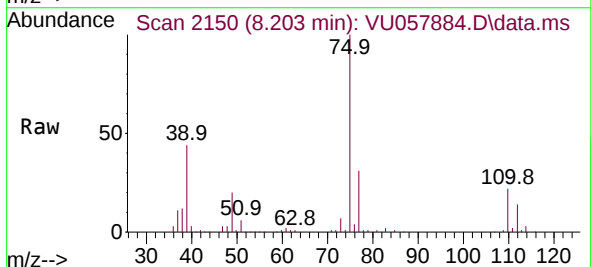
Acq: 19 Feb 2024 16:33

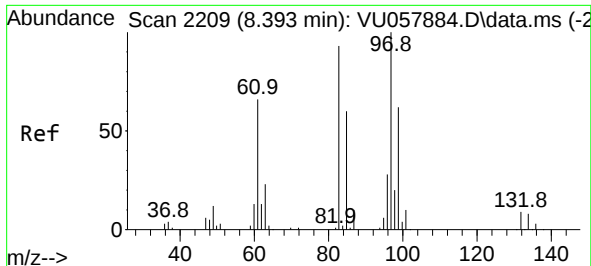
Tgt Ion: 75 Resp: 184625

Ion Ratio Lower Upper

75 100

77 31.1 21.8 40.4



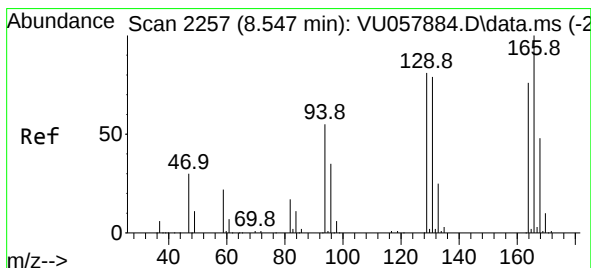
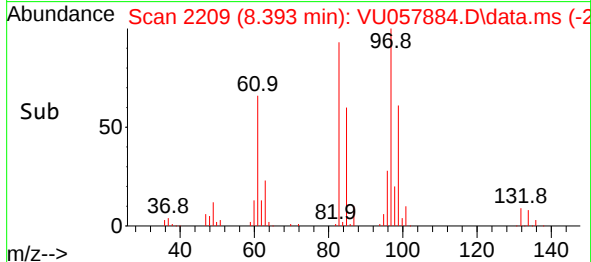
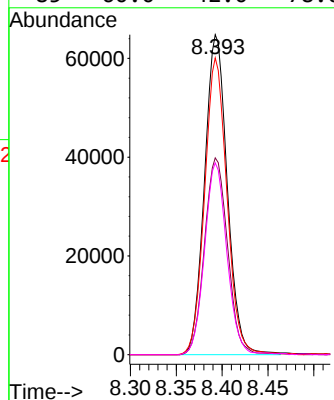
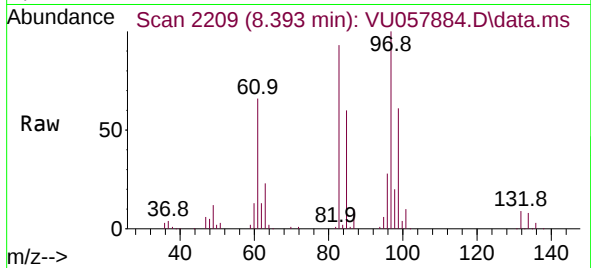


#45  
1,1,2-Trichloroethane  
Concen: 51.040 ug/L  
RT: 8.393 min Scan# 2209  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 97 Resp: 111676

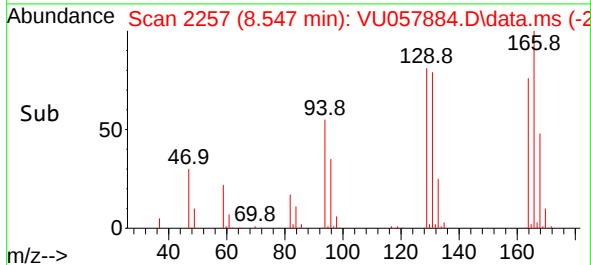
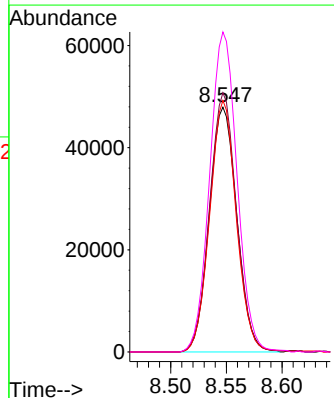
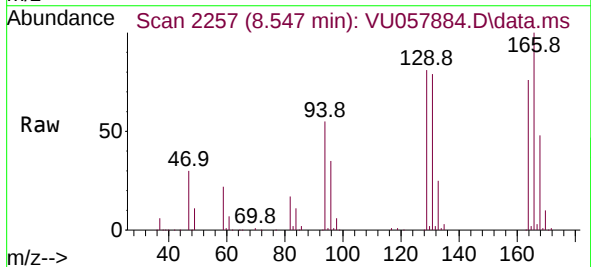
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.5  | 43.0  | 80.0  |
| 83  | 92.8  | 65.0  | 120.6 |
| 85  | 60.0  | 42.0  | 78.0  |

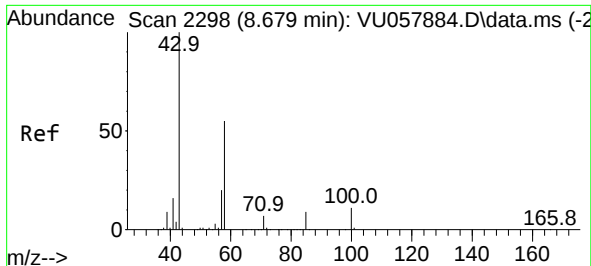


#46  
Tetrachloroethene  
Concen: 51.239 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion: 164 Resp: 82461

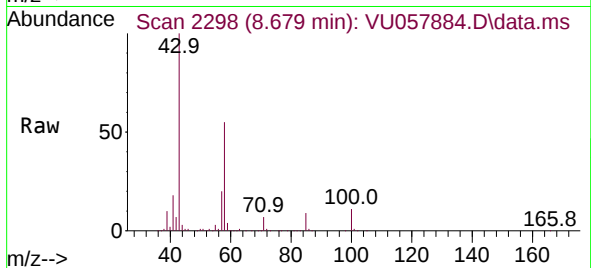
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 105.9 | 74.1  | 137.7 |
| 131 | 102.8 | 72.0  | 133.6 |
| 166 | 130.8 | 91.6  | 170.0 |



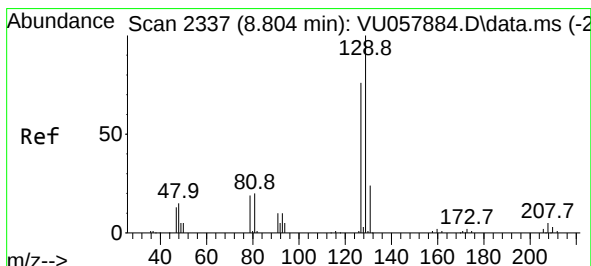
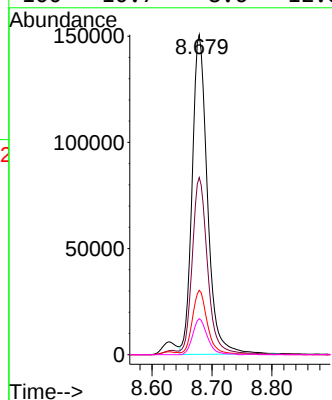
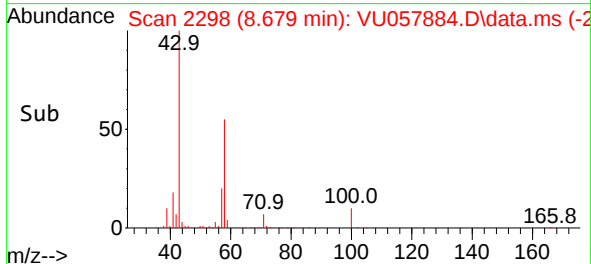


#48  
2-Hexanone  
Concen: 103.469 ug/L  
RT: 8.679 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Instrument :  
MSVOA\_U  
ClientSampleId :

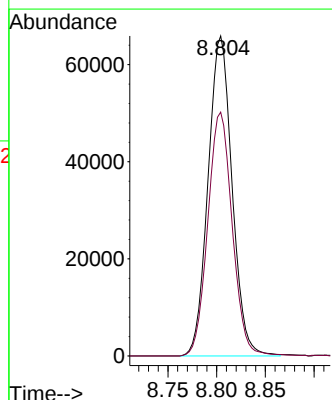
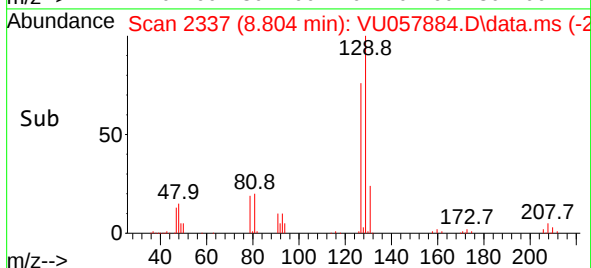
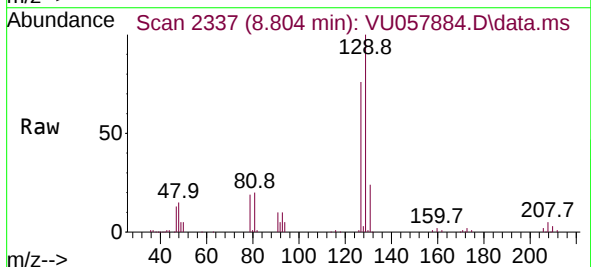


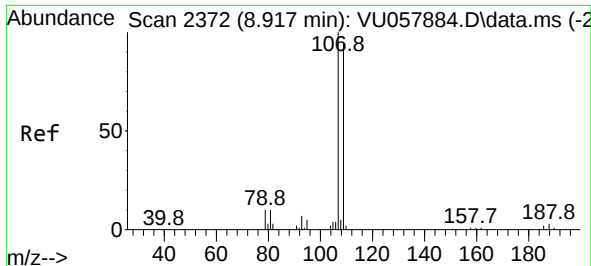
Tgt Ion: 43 Resp: 266367  
Ion Ratio Lower Upper  
43 100  
58 54.8 43.8 65.8  
57 19.4 15.5 23.3  
100 10.7 8.6 12.8



#49  
Dibromochloromethane  
Concen: 51.318 ug/L  
RT: 8.804 min Scan# 2337  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion: 129 Resp: 113009  
Ion Ratio Lower Upper  
129 100  
127 76.2 53.3 99.1





#50

1,2-Dibromoethane

Concen: 51.131 ug/L

RT: 8.917 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

ClientSampleId :

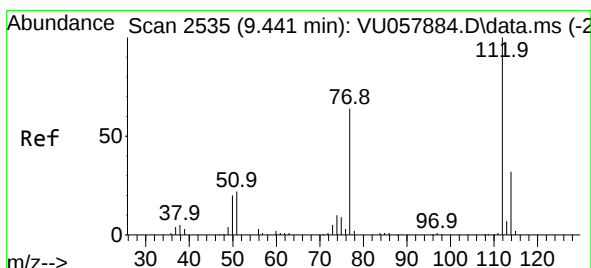
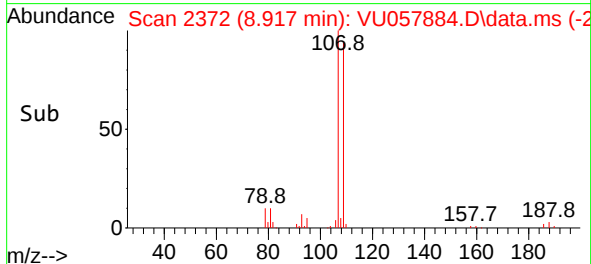
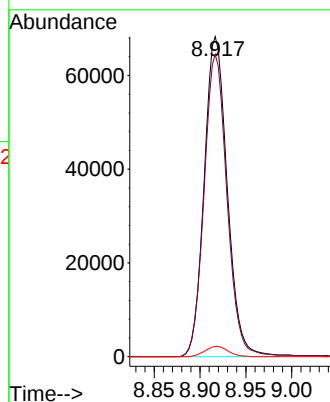
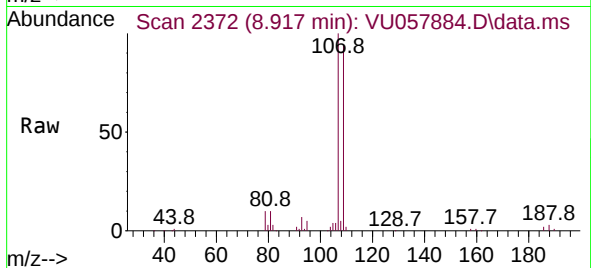
Tgt Ion:107 Resp: 119419

Ion Ratio Lower Upper

107 100

109 94.5 66.1 122.8

188 3.2 2.6 3.8



#51

Chlorobenzene

Concen: 51.740 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

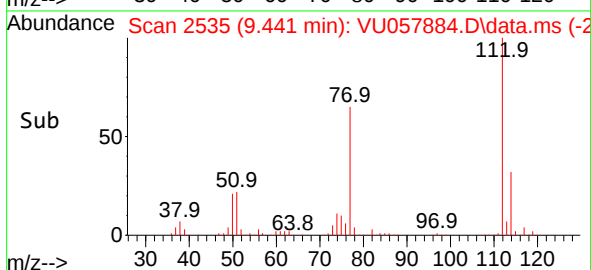
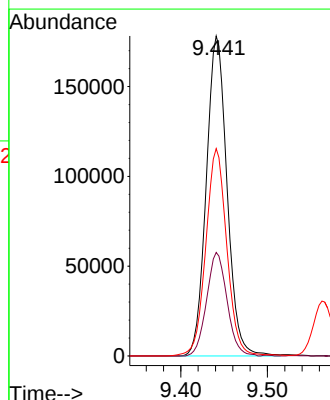
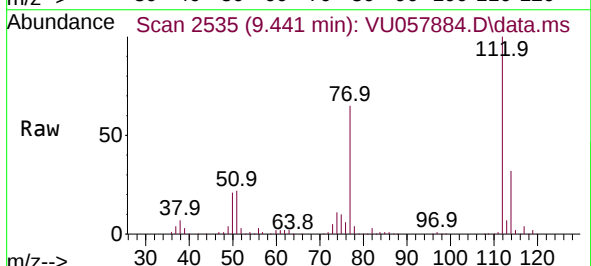
Tgt Ion:112 Resp: 297226

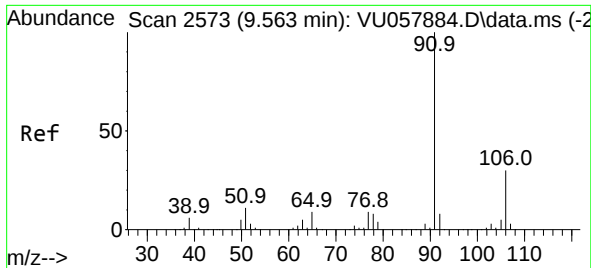
Ion Ratio Lower Upper

112 100

114 32.4 22.7 42.1

77 64.8 51.8 77.8

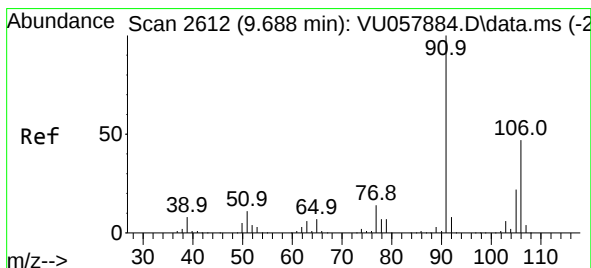
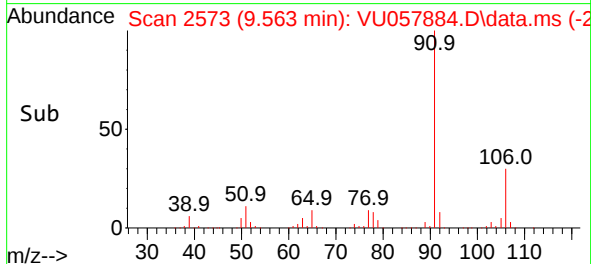
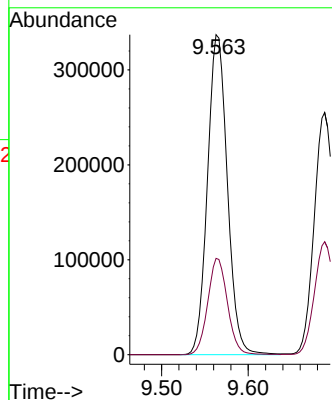
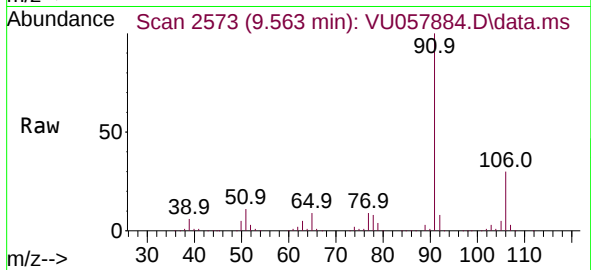




#52  
Ethylbenzene  
Concen: 52.226 ug/L  
RT: 9.563 min Scan# 2573  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

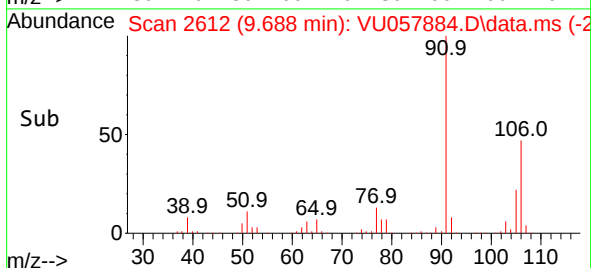
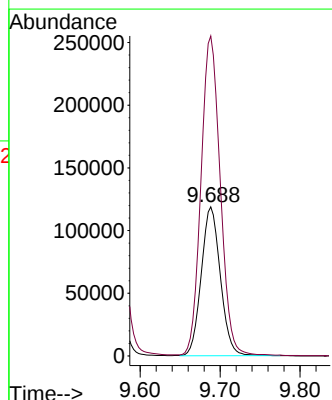
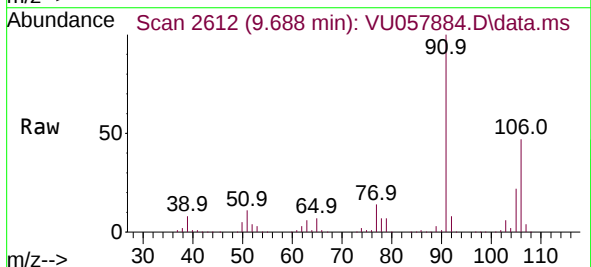
Instrument :  
MSVOA\_U  
ClientSampleId :

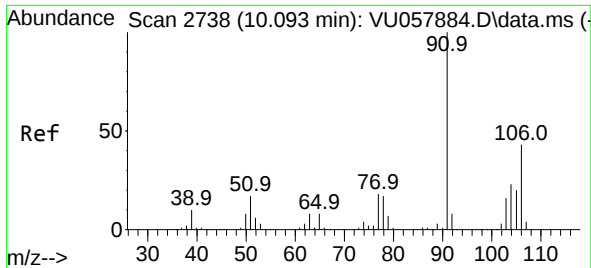
Tgt Ion: 91 Resp: 538156  
Ion Ratio Lower Upper  
91 100  
106 30.1 21.1 39.1



#53  
m,p-Xylene  
Concen: 52.451 ug/L  
RT: 9.688 min Scan# 2612  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion:106 Resp: 197728  
Ion Ratio Lower Upper  
106 100  
91 214.6 150.2 279.0

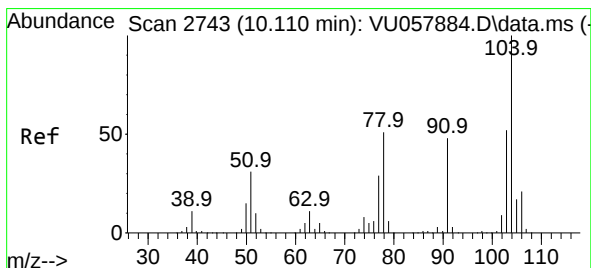
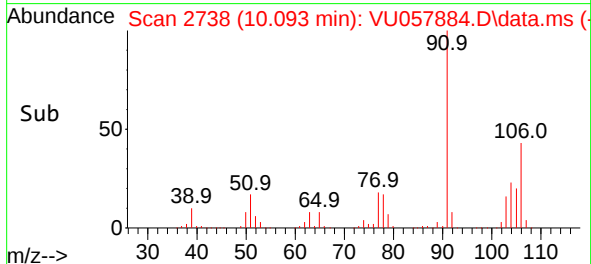
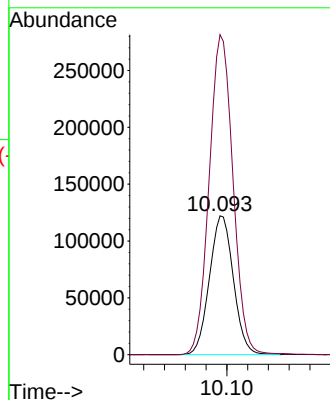
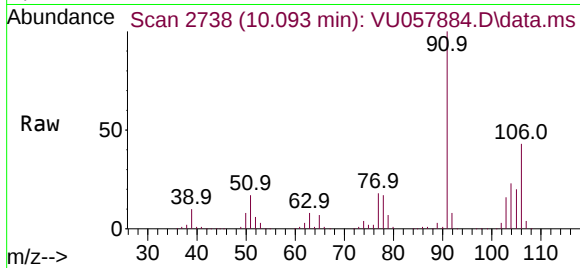




#54  
o-Xylene  
Concen: 52.971 ug/L  
RT: 10.093 min Scan# 2738  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

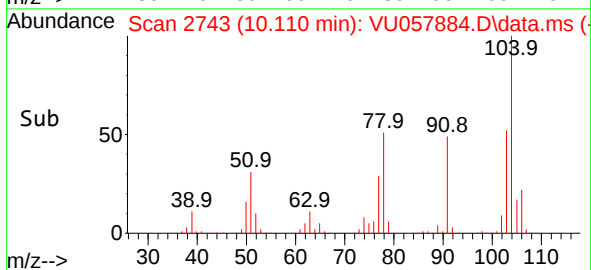
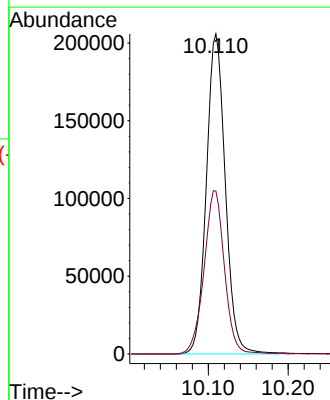
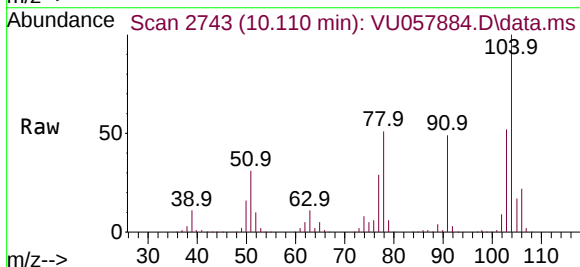
Instrument :  
MSVOA\_U  
ClientSampleId :

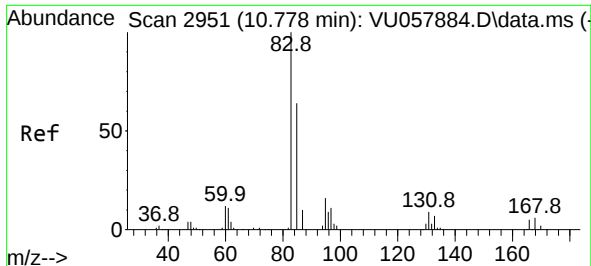
Tgt Ion:106 Resp: 195467  
Ion Ratio Lower Upper  
106 100  
91 230.4 161.3 299.5



#55  
Styrene  
Concen: 54.780 ug/L  
RT: 10.110 min Scan# 2743  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion:104 Resp: 339446  
Ion Ratio Lower Upper  
104 100  
78 50.9 35.6 66.2

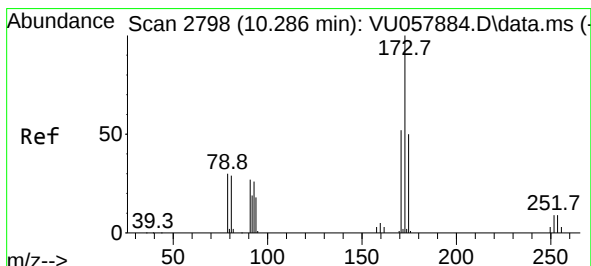
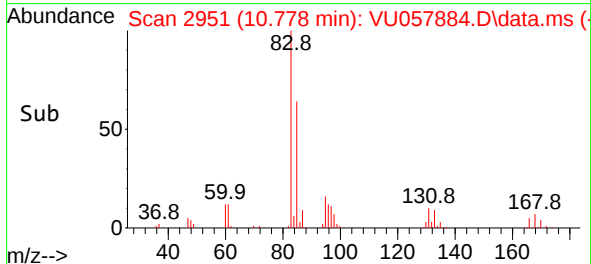
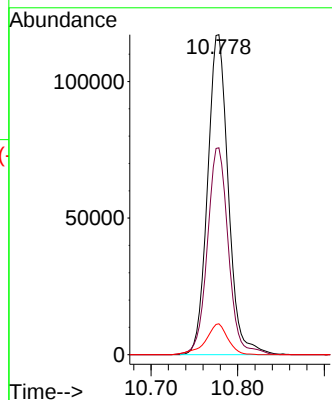
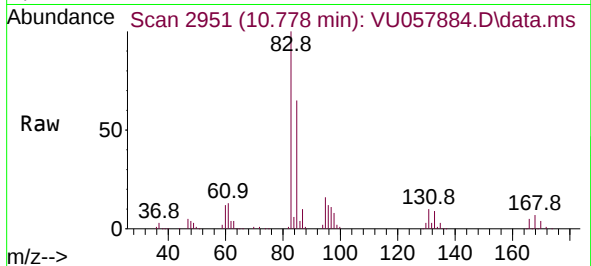




#57  
1,1,2,2-Tetrachloroethane  
Concen: 54.262 ug/L  
RT: 10.778 min Scan# 2951  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

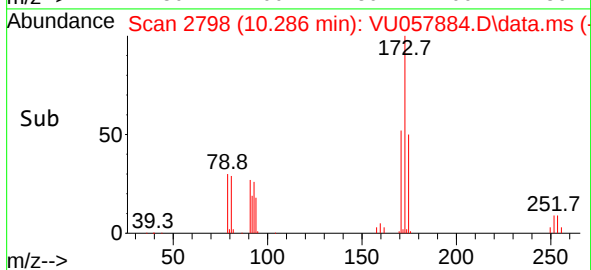
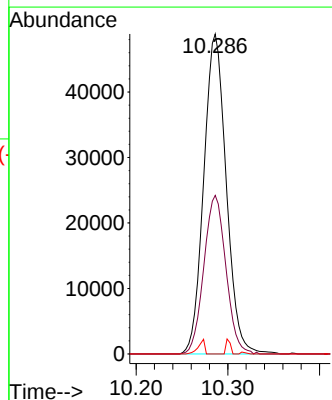
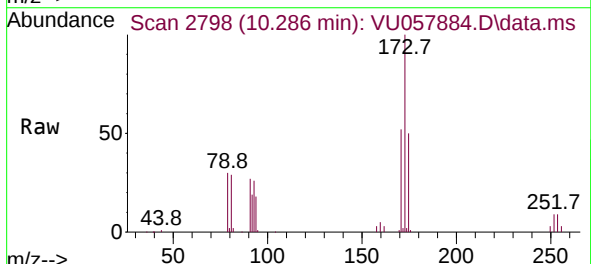
Instrument :  
MSVOA\_U  
ClientSampleId :

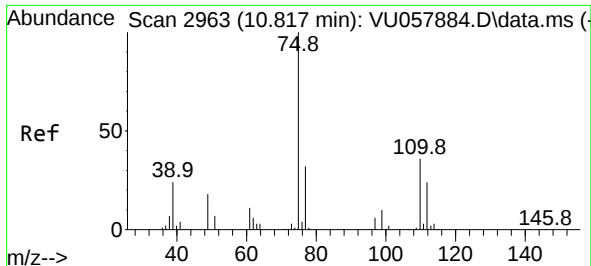
Tgt Ion: 83 Resp: 194364  
Ion Ratio Lower Upper  
83 100  
85 64.6 45.2 84.0  
131 9.7 7.8 11.6



#59  
Bromoform  
Concen: 50.390 ug/L  
RT: 10.286 min Scan# 2798  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion:173 Resp: 83254  
Ion Ratio Lower Upper  
173 100  
175 48.5 38.8 58.2  
254 1.3 1.0 1.6

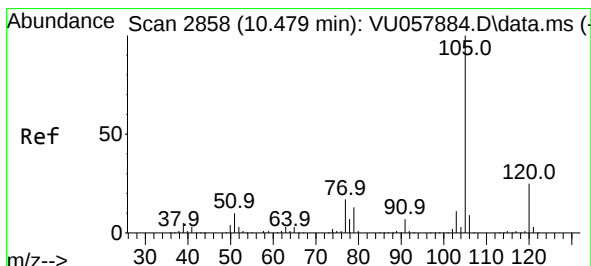
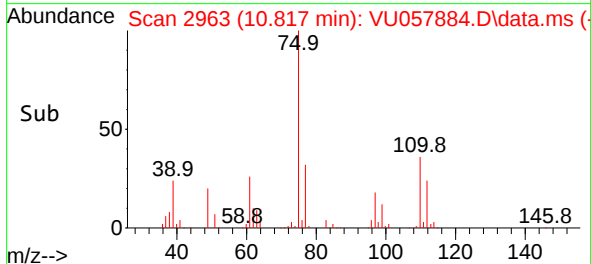
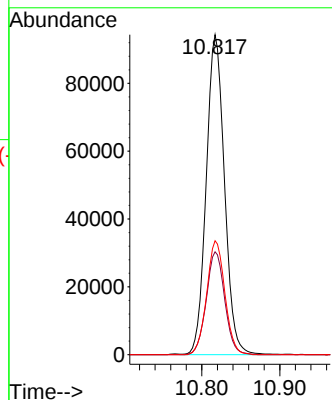
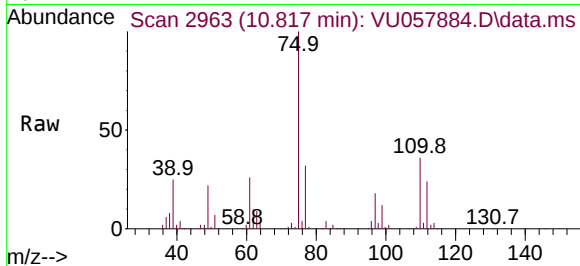




#60  
1,2,3-Trichloropropane  
Concen: 51.098 ug/L  
RT: 10.817 min Scan# 2963  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

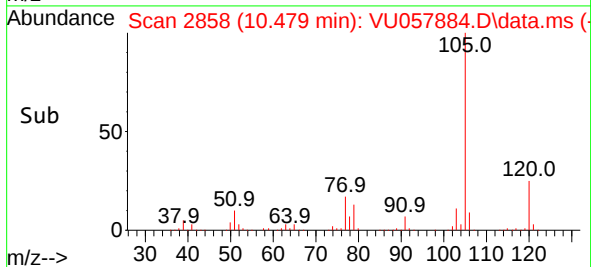
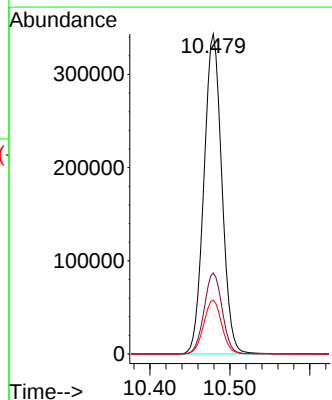
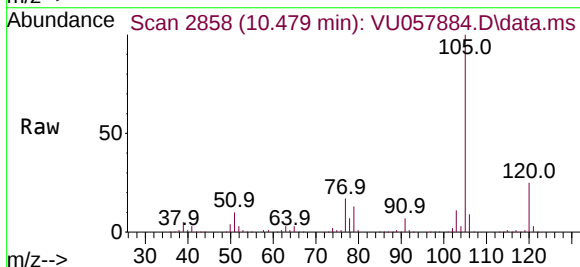
Instrument :  
MSVOA\_U  
ClientSampleId :

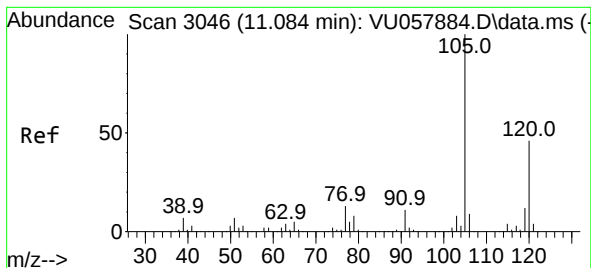
Tgt Ion: 75 Resp: 153557  
Ion Ratio Lower Upper  
75 100  
77 32.4 25.9 38.9  
110 35.4 28.3 42.5



#61  
Isopropylbenzene  
Concen: 51.441 ug/L  
RT: 10.479 min Scan# 2858  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion: 105 Resp: 535161  
Ion Ratio Lower Upper  
105 100  
120 25.6 20.5 30.7  
77 16.9 13.5 20.3





#62

1,3,5-Trimethylbenzene

Concen: 53.407 ug/L

RT: 11.084 min Scan# 3046

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

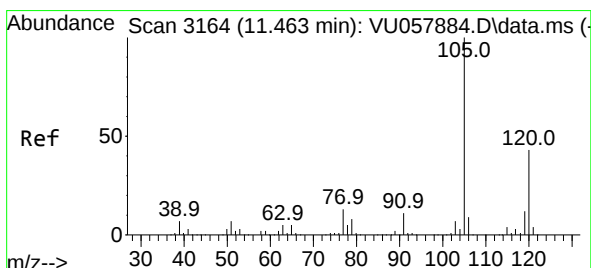
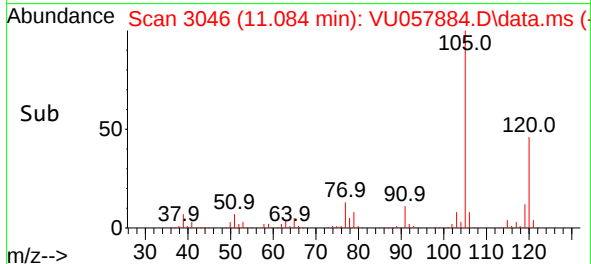
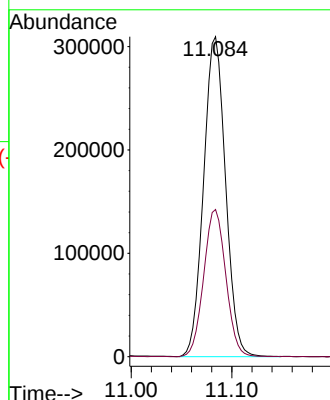
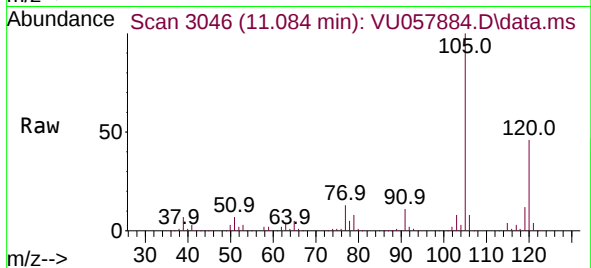
ClientSampleId :

Tgt Ion:105 Resp: 469906

Ion Ratio Lower Upper

105 100

120 46.3 37.0 55.6



#63

1,2,4-Trimethylbenzene

Concen: 53.789 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. 0.000 min

Lab File: VU057884.D

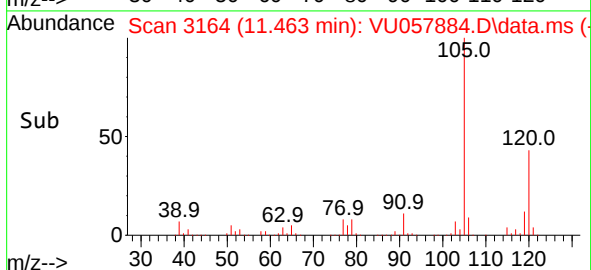
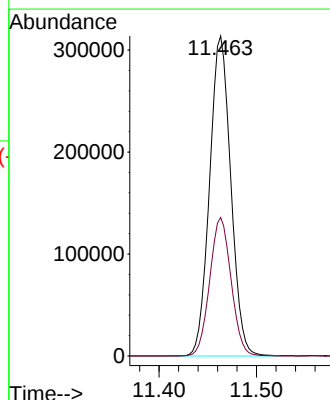
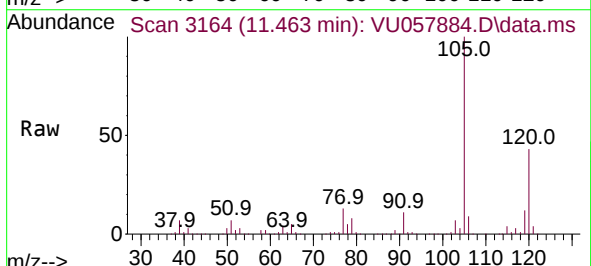
Acq: 19 Feb 2024 16:33

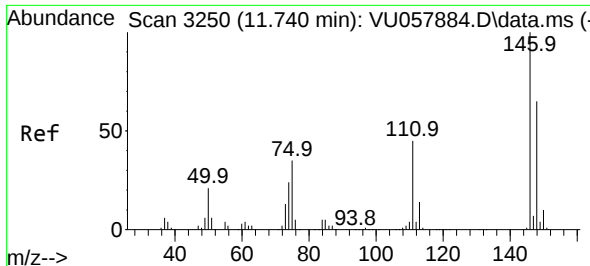
Tgt Ion:105 Resp: 474784

Ion Ratio Lower Upper

105 100

120 43.5 34.8 52.2

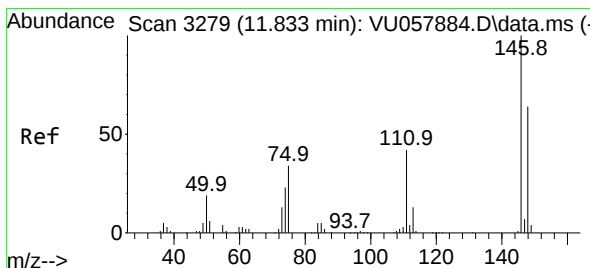
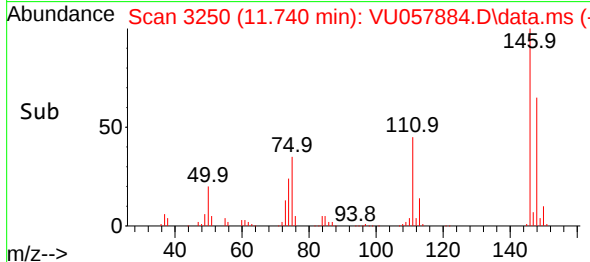
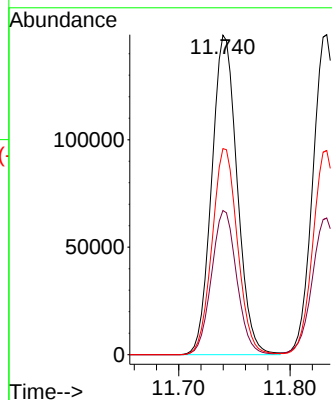
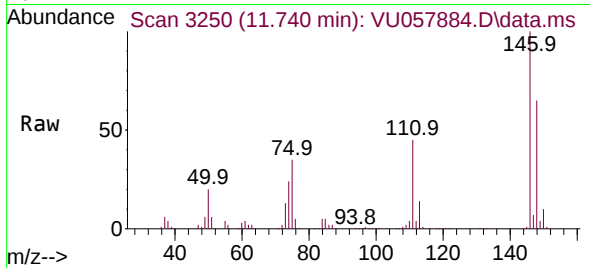




#64  
1,3-Dichlorobenzene  
Concen: 52.229 ug/L  
RT: 11.740 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

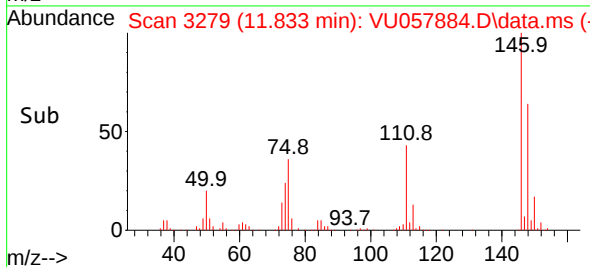
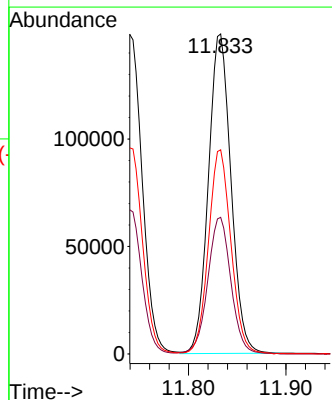
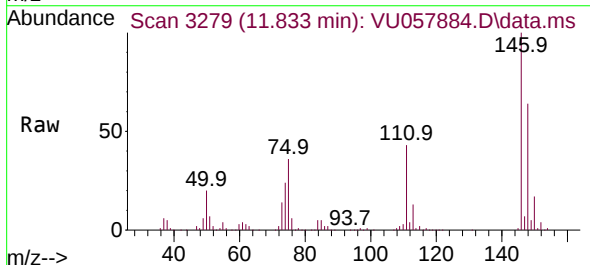
Instrument :  
MSVOA\_U  
ClientSampleId :

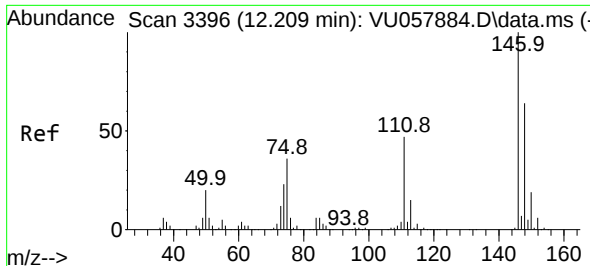
Tgt Ion:146 Resp: 236572  
Ion Ratio Lower Upper  
146 100  
111 45.1 31.6 58.6  
148 64.5 45.1 83.9



#65  
1,4-Dichlorobenzene  
Concen: 51.370 ug/L  
RT: 11.833 min Scan# 3279  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion:146 Resp: 239060  
Ion Ratio Lower Upper  
146 100  
111 42.7 29.9 55.5  
148 63.8 44.7 82.9





#67

1,2-Dichlorobenzene

Concen: 50.903 ug/L

RT: 12.209 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

Instrument :

MSVOA\_U

ClientSampleId :

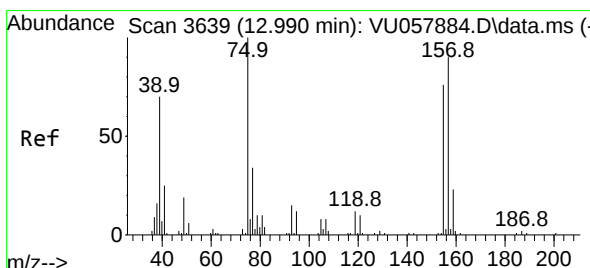
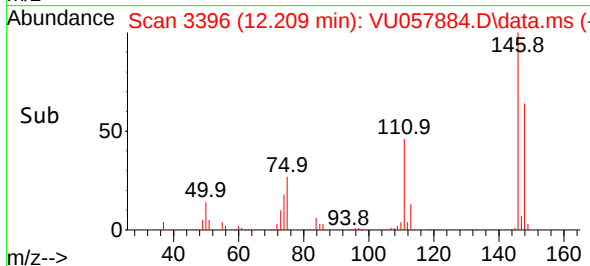
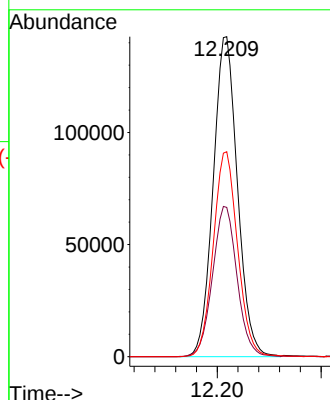
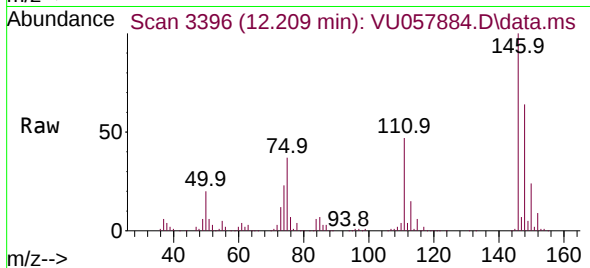
Tgt Ion:146 Resp: 231852

Ion Ratio Lower Upper

146 100

111 46.6 37.3 55.9

148 64.1 51.3 76.9



#68

1,2-Dibromo-3-chloropropane

Concen: 49.671 ug/L

RT: 12.990 min Scan# 3639

Delta R.T. 0.000 min

Lab File: VU057884.D

Acq: 19 Feb 2024 16:33

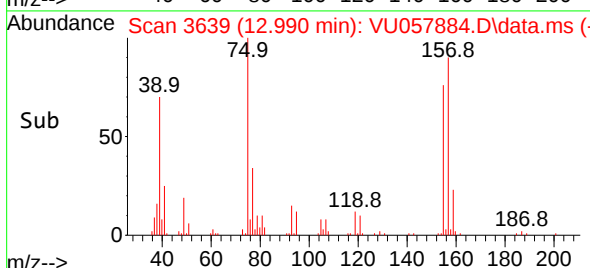
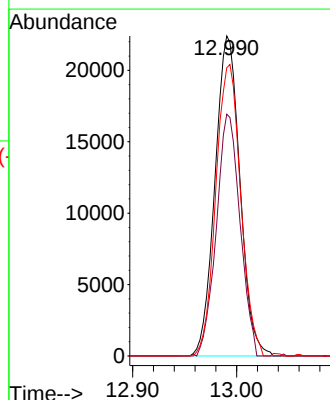
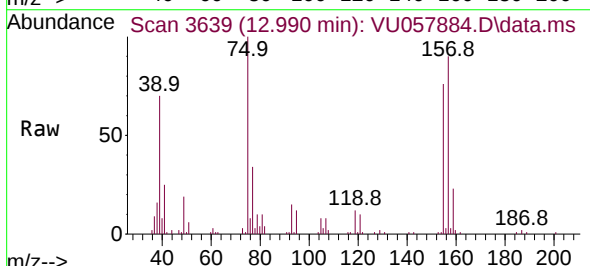
Tgt Ion: 75 Resp: 37343

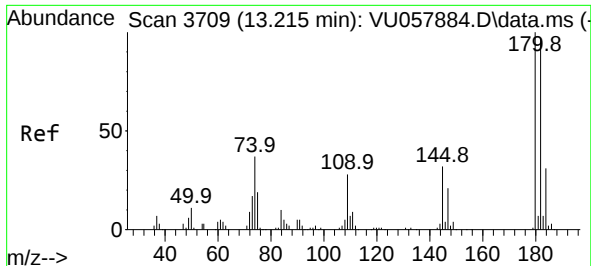
Ion Ratio Lower Upper

75 100

155 79.0 63.2 94.8

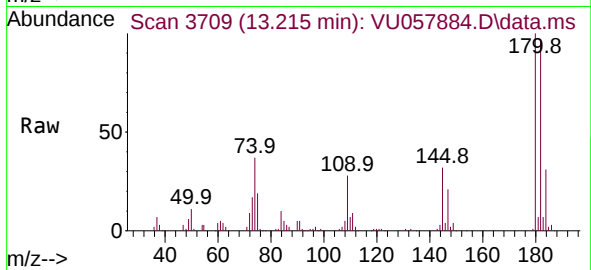
157 93.3 74.6 112.0





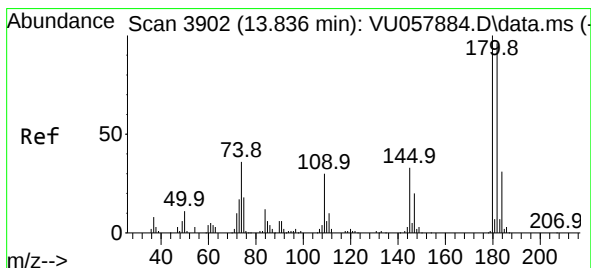
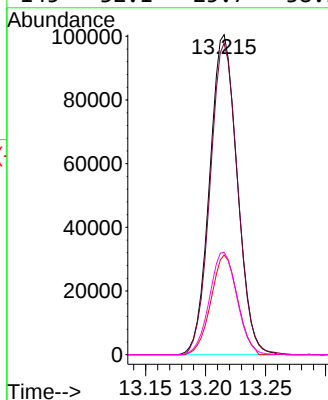
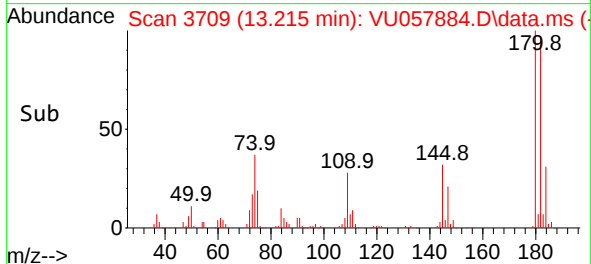
#69  
1,3,5-Trichlorobenzene  
Concen: 50.922 ug/L  
RT: 13.215 min Scan# 3709  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Instrument :  
MSVOA\_U  
ClientSampleId :

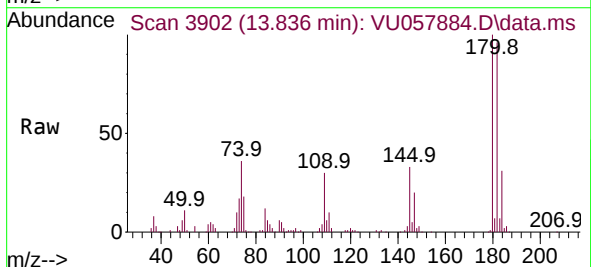


Tgt Ion:180 Resp: 160339

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 97.0  | 77.6  | 116.4 |
| 184 | 30.1  | 24.1  | 36.1  |
| 145 | 32.1  | 25.7  | 38.5  |

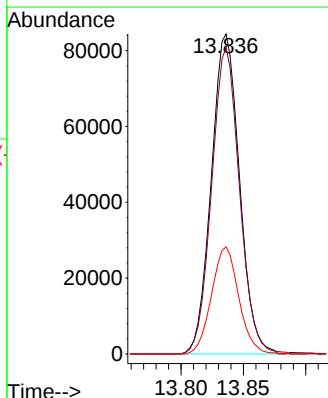
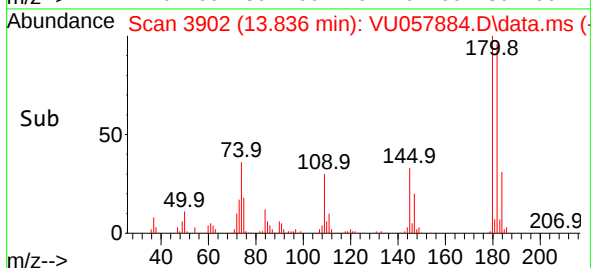


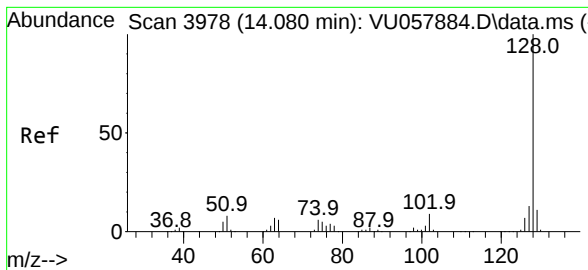
#70  
1,2,4-trichlorobenzene  
Concen: 49.588 ug/L  
RT: 13.836 min Scan# 3902  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33



Tgt Ion:180 Resp: 132670

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.7  | 75.8  | 113.6 |
| 145 | 32.4  | 25.9  | 38.9  |

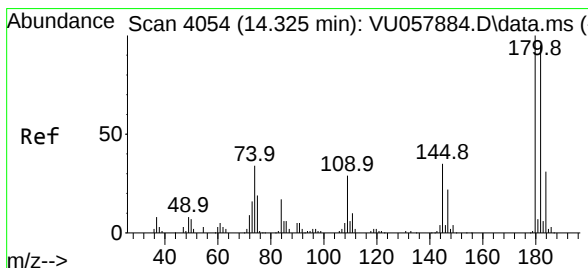
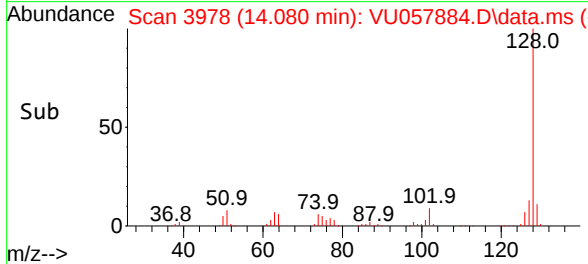
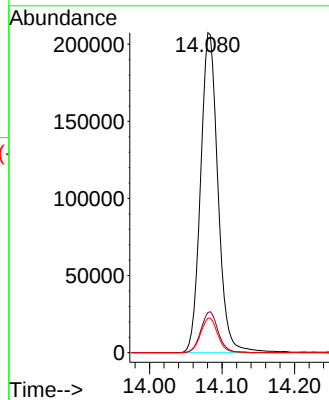
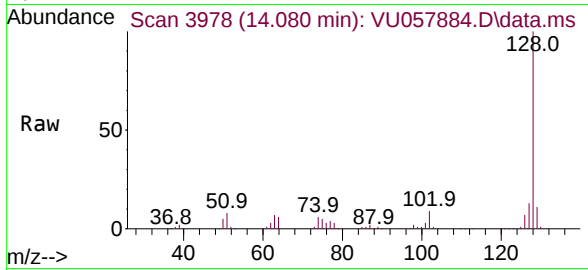




#71  
Naphthalene  
Concen: 48.274 ug/L  
RT: 14.080 min Scan# 3978  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion:128 Resp: 345218  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.2 15.4  
129 10.7 8.6 12.8



#72  
1,2,3-Trichlorobenzene  
Concen: 48.350 ug/L  
RT: 14.325 min Scan# 4054  
Delta R.T. 0.000 min  
Lab File: VU057884.D  
Acq: 19 Feb 2024 16:33

Tgt Ion:180 Resp: 121124  
Ion Ratio Lower Upper  
180 100  
182 94.3 75.4 113.2  
145 34.8 27.8 41.8

