

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU081324\  
 Data File : VU060438.D  
 Acq On : 13 Aug 2024 20:34  
 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 14 01:25:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080824WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Aug 14 01:18:59 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.242  | 114   | 87986    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 94610    | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.804 | 152   | 51463    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 22157    | 3.208    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 64.200%  |
| 7) Chloroethane-d5            | 1.907  | 69    | 23805    | 3.822    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 76.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 10188    | 3.466    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 69.400%  |
| 20) 2-Butanone-d5             | 4.631  | 46    | 81917    | 55.888   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 111.780% |
| 24) Chloroform-d              | 5.055  | 84    | 64227    | 4.697    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 31487    | 4.965    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 99.400%  |
| 32) Benzene-d6                | 5.721  | 84    | 114831   | 4.025    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 80.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67    | 39237    | 4.433    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 88.600%  |
| 41) Toluene-d8                | 7.891  | 98    | 102291   | 4.016    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 80.400%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 12685    | 4.433    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 88.600%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 67222    | 52.941   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 105.880% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749 | 84    | 35774    | 4.926    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 98.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 40981    | 4.323    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 86.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 24462    | 5.154    | ug/L   | 99       |
| 3) Chloromethane              | 1.518  | 50    | 28384    | 4.808    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.599  | 62    | 34081    | 4.931    | ug/L   | 97       |
| 6) Bromomethane               | 1.853  | 94    | 22605    | 4.618    | ug/L   | 98       |
| 8) Chloroethane               | 1.930  | 64    | 23170    | 4.942    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.132  | 101   | 54759    | 5.651    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.573  | 101   | 33182    | 5.196    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.573  | 96    | 27749    | 4.783    | ug/L   | 86       |
| 13) Acetone                   | 2.644  | 43    | 46446    | 46.404   | ug/L   | 95       |
| 14) Carbon disulfide          | 2.785  | 76    | 64647    | 4.417    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.956  | 43    | 12108    | 5.839    | ug/L   | 95       |
| 16) Methylene chloride        | 3.039  | 84    | 35626    | 4.320    | ug/L   | 100      |
| 17) Methyl tert-butyl Ether   | 3.357  | 73    | 71482    | 5.226    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.345  | 96    | 28559    | 5.018    | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.859  | 63    | 63518    | 5.406    | ug/L   | 98       |
| 21) 2-Butanone                | 4.708  | 43    | 73341    | 49.163   | ug/L   | 100      |
| 22) cis-1,2-Dichloroethene    | 4.660  | 96    | 34769    | 5.061    | ug/L   | 94       |
| 23) Bromochloromethane        | 4.968  | 128   | 16457    | 5.190    | ug/L   | 90       |
| 25) Chloroform                | 5.081  | 83    | 68686    | 5.374    | ug/L   | 99       |

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 Acq On : 13 Aug 2024 20:34  
 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

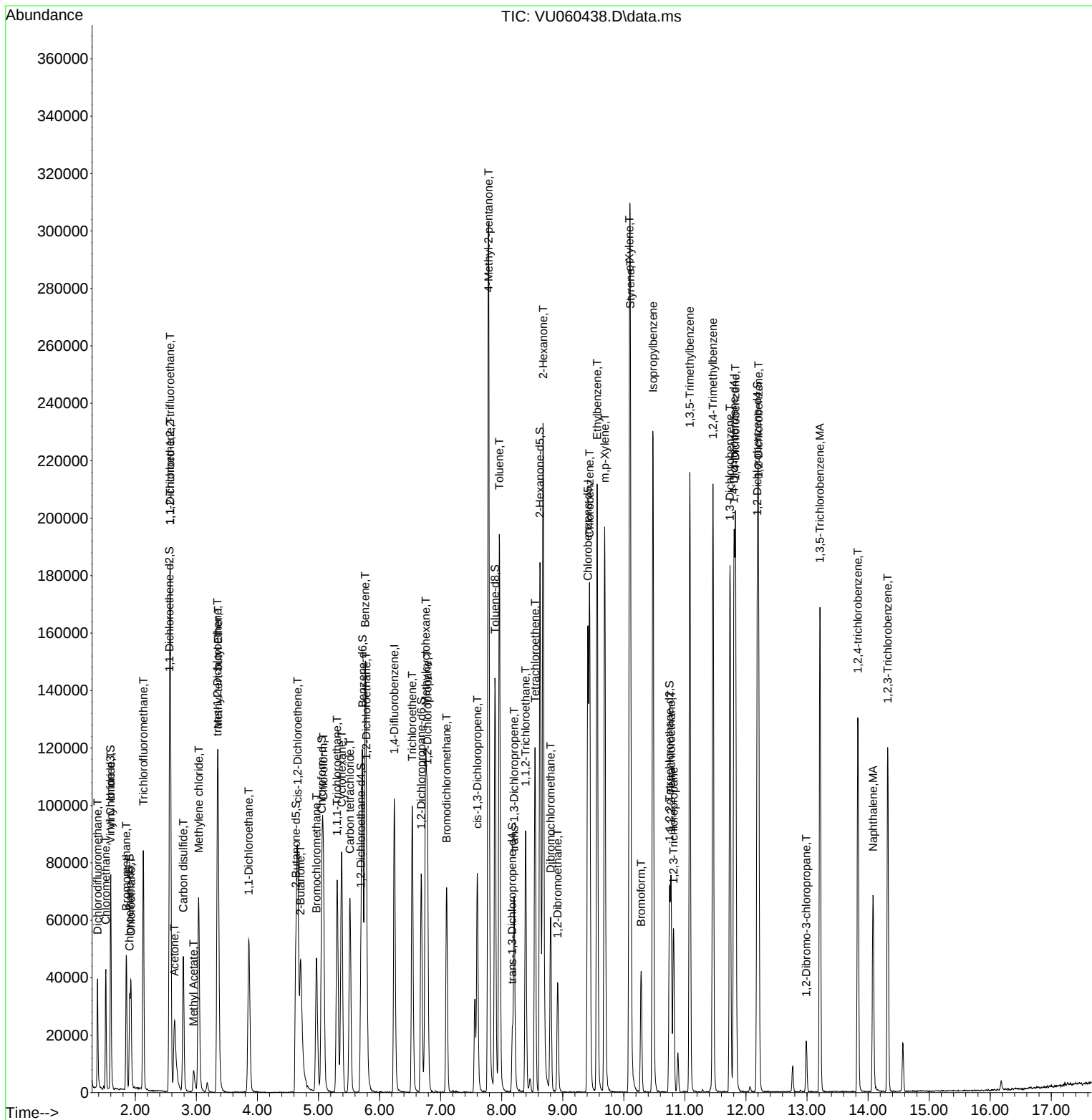
Instrument :  
 MSVOA\_U  
 ClientSampleId :

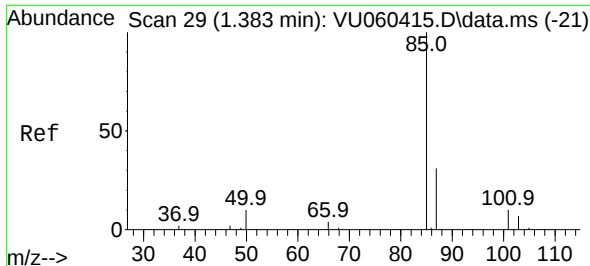
Quant Time: Aug 14 01:25:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR080824WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Aug 14 01:18:59 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.785  | 62   | 39334    | 5.786  | ug/L  | 94       |
| 29) 1,1,1-Trichloroethane     | 5.306  | 97   | 55532    | 5.362  | ug/L  | 99       |
| 30) Cyclohexane               | 5.380  | 56   | 37829    | 4.512  | ug/L  | 95       |
| 31) Carbon tetrachloride      | 5.515  | 117  | 48386    | 5.331  | ug/L  | 99       |
| 33) Benzene                   | 5.766  | 78   | 137038   | 5.031  | ug/L  | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 35626    | 4.996  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.756  | 83   | 42618    | 4.577  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 38369    | 5.176  | ug/L  | 98       |
| 38) Bromodichloromethane      | 7.100  | 83   | 48350    | 5.277  | ug/L  | 94       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 46275    | 4.596  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.785  | 43   | 188946   | 54.601 | ug/L  | 98       |
| 42) Toluene                   | 7.962  | 91   | 148472   | 5.158  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.203  | 75   | 42289    | 5.084  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 28780    | 5.069  | ug/L  | 96       |
| 47) Tetrachloroethene         | 8.547  | 164  | 28214    | 5.059  | ug/L  | 95       |
| 48) 2-Hexanone                | 8.679  | 43   | 145069   | 55.299 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.801  | 129  | 33138    | 5.489  | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 25419    | 5.029  | ug/L  | 95       |
| 51) Chlorobenzene             | 9.441  | 112  | 98155    | 5.055  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.563  | 91   | 151711   | 5.003  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.688  | 106  | 58645    | 5.089  | ug/L  | 100      |
| 54) o-Xylene                  | 10.094 | 106  | 58012    | 5.260  | ug/L  | 94       |
| 55) Styrene                   | 10.110 | 104  | 103167   | 5.407  | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 36505    | 5.171  | ug/L  | 97       |
| 59) Bromoform                 | 10.283 | 173  | 19782    | 5.062  | ug/L  | 98       |
| 60) Isopropylbenzene          | 10.479 | 105  | 151930   | 4.889  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.814 | 75   | 25577    | 5.133  | ug/L  | 96       |
| 62) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 117172   | 4.898  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.460 | 105  | 116371   | 4.936  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 77808    | 4.913  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 78989    | 4.948  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 75403    | 5.042  | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.987 | 75   | 5331     | 5.708  | ug/L  | 88       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 54475    | 4.552  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.833 | 180  | 41504    | 4.417  | ug/L  | 97       |
| 71) Naphthalene               | 14.084 | 128  | 61684    | 4.617  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 38239    | 4.542  | ug/L  | 98       |

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

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QLast Update : Wed Aug 14 01:18:59 2024  
Response via : Initial Calibration

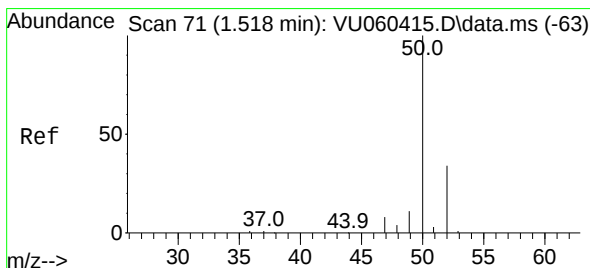
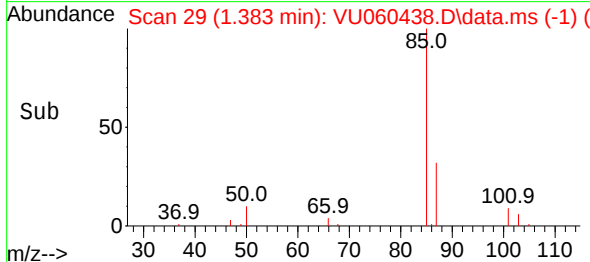
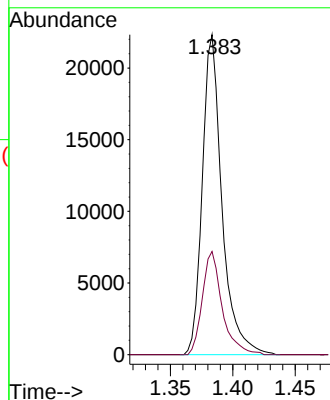
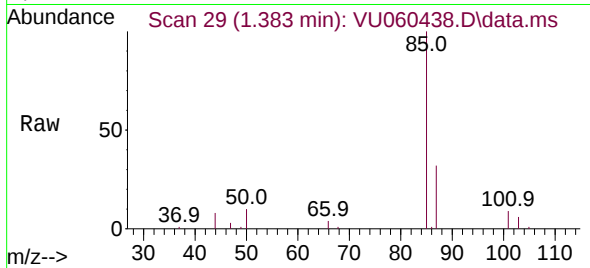




#2  
 Dichlorodifluoromethane  
 Concen: 5.154 ug/L  
 RT: 1.383 min Scan# 29  
 Delta R.T. 0.000 min  
 Lab File: VU060438.D  
 Acq: 13 Aug 2024 20:34

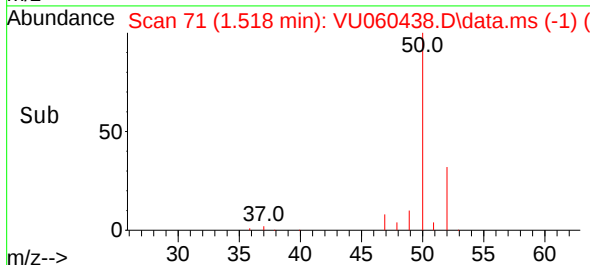
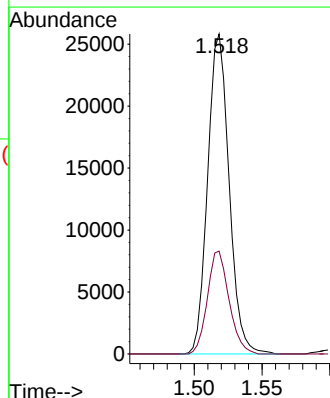
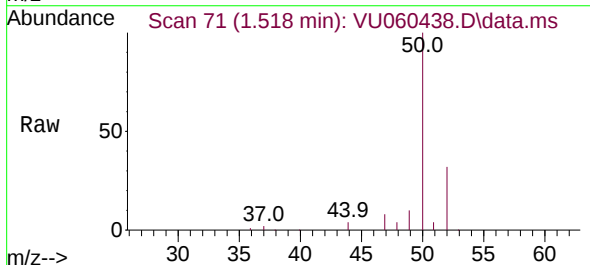
Instrument :  
 MSVOA\_U  
 ClientSampleId :

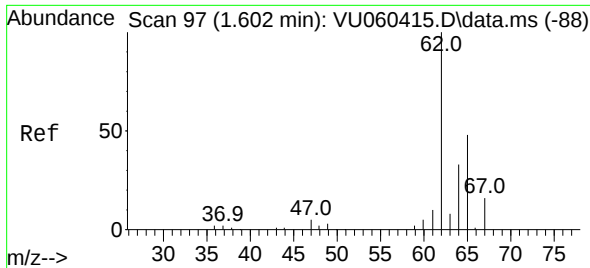
Tgt Ion: 85 Resp: 24462  
 Ion Ratio Lower Upper  
 85 100  
 87 32.6 25.7 38.5



#3  
 Chloromethane  
 Concen: 4.808 ug/L  
 RT: 1.518 min Scan# 71  
 Delta R.T. 0.000 min  
 Lab File: VU060438.D  
 Acq: 13 Aug 2024 20:34

Tgt Ion: 50 Resp: 28384  
 Ion Ratio Lower Upper  
 50 100  
 52 32.2 22.8 42.4

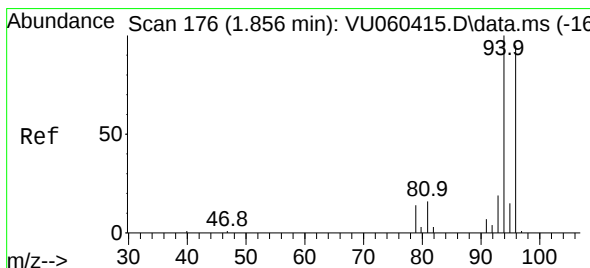
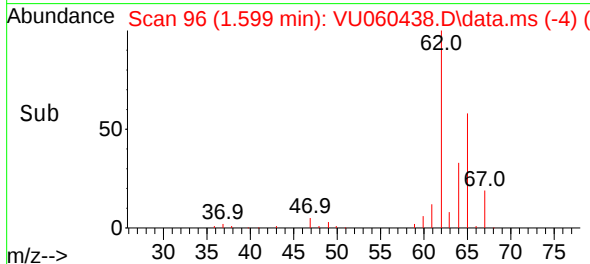
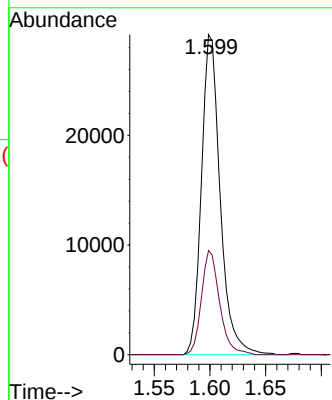
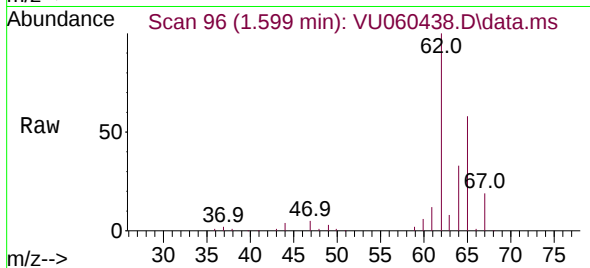




#5  
 Vinyl chloride  
 Concen: 4.931 ug/L  
 RT: 1.599 min Scan# 90  
 Delta R.T. -0.003 min  
 Lab File: VU060438.D  
 Acq: 13 Aug 2024 20:34

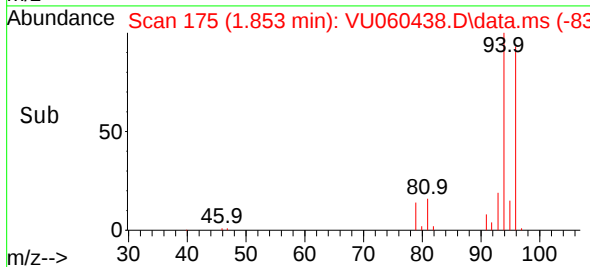
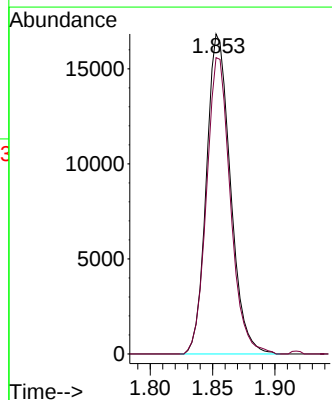
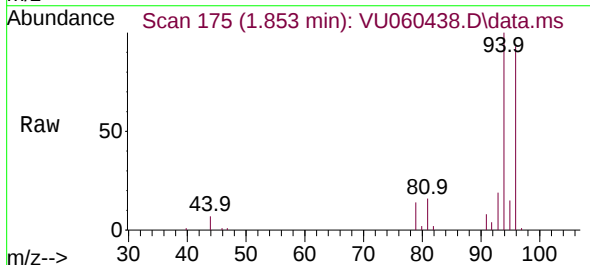
Instrument :  
 MSVOA\_U  
 ClientSampleId :

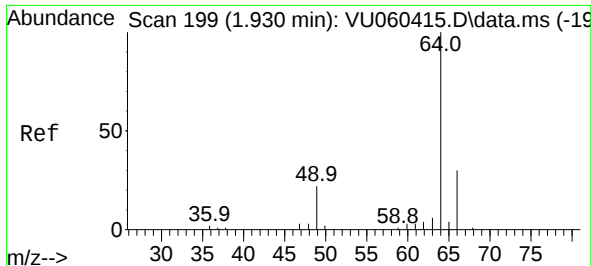
Tgt Ion: 62 Resp: 34081  
 Ion Ratio Lower Upper  
 62 100  
 64 32.5 24.1 44.7



#6  
 Bromomethane  
 Concen: 4.618 ug/L  
 RT: 1.853 min Scan# 175  
 Delta R.T. -0.003 min  
 Lab File: VU060438.D  
 Acq: 13 Aug 2024 20:34

Tgt Ion: 94 Resp: 22605  
 Ion Ratio Lower Upper  
 94 100  
 96 92.6 63.2 117.4

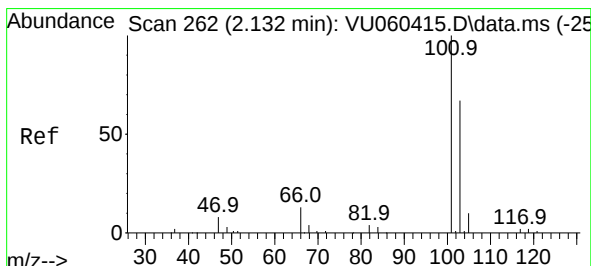
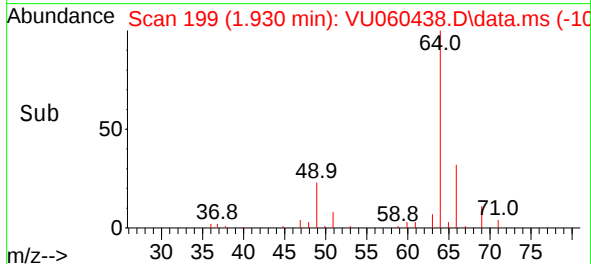
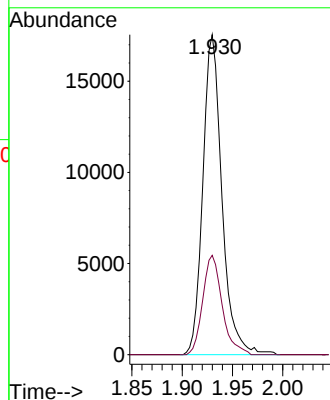
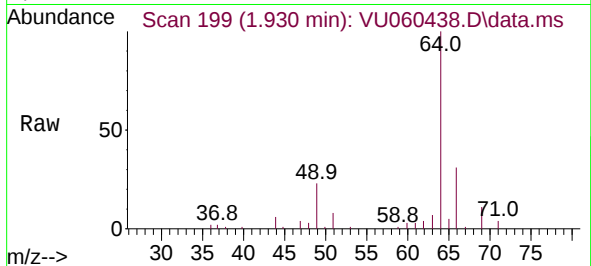




#8  
Chloroethane  
Concen: 4.942 ug/L  
RT: 1.930 min Scan# 199  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

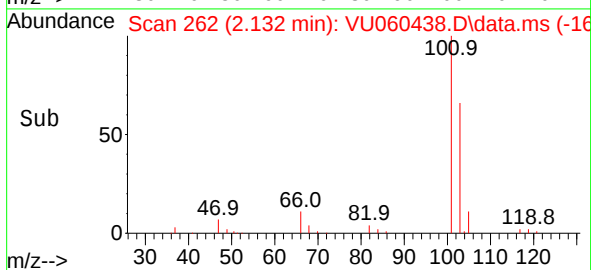
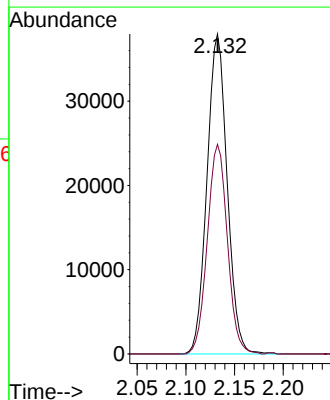
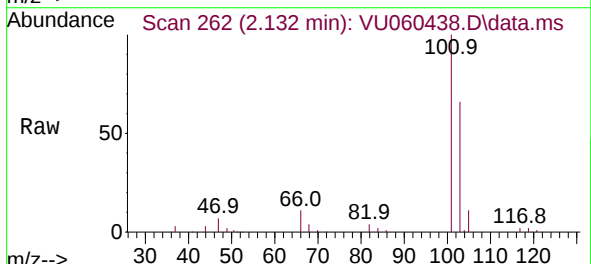
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MSVOA\_U  
ClientSampleId :

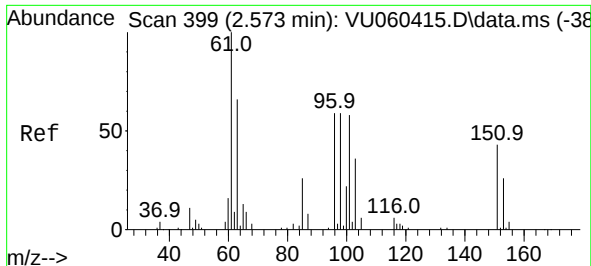
Tgt Ion: 64 Resp: 23170  
Ion Ratio Lower Upper  
64 100  
66 31.1 22.2 41.2



#9  
Trichlorofluoromethane  
Concen: 5.651 ug/L  
RT: 2.132 min Scan# 262  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Tgt Ion:101 Resp: 54759  
Ion Ratio Lower Upper  
101 100  
103 65.0 51.7 77.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.196 ug/L

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

ClientSampleId :

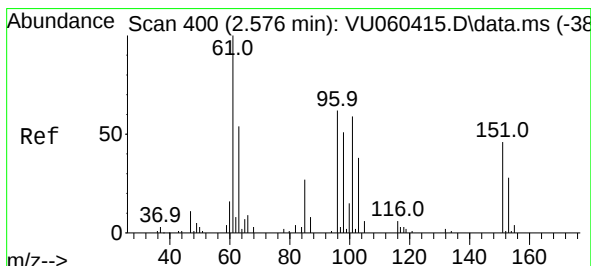
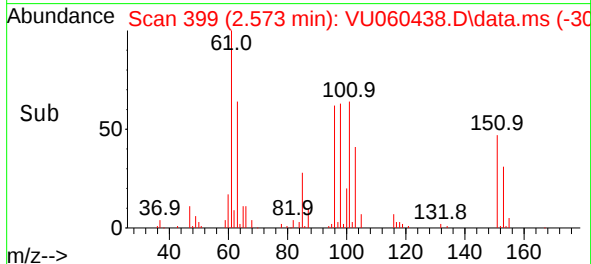
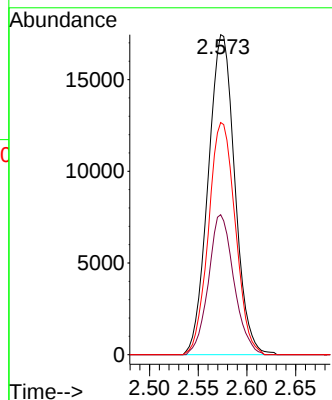
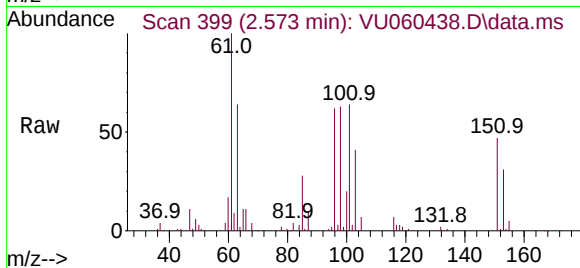
Tgt Ion:101 Resp: 33182

Ion Ratio Lower Upper

101 100

85 41.8 33.5 50.3

151 73.0 59.7 89.5



#12

1,1-Dichloroethene

Concen: 4.783 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

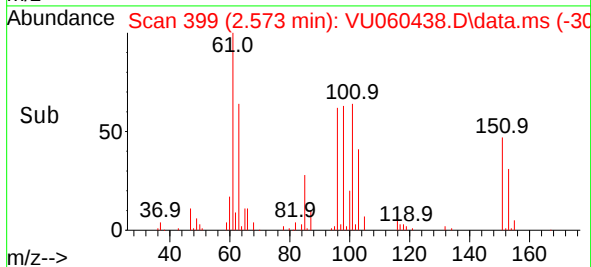
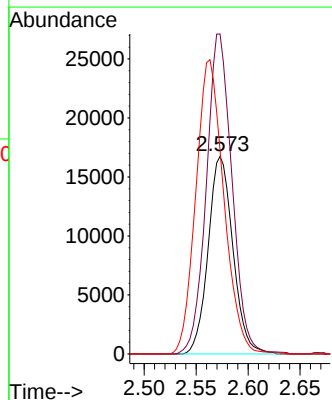
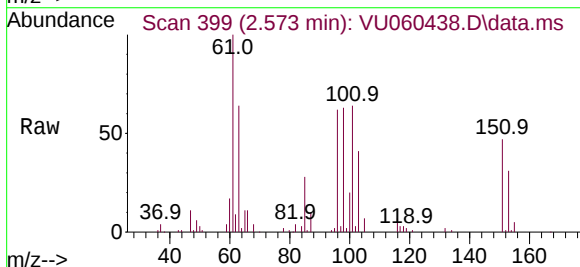
Tgt Ion: 96 Resp: 27749

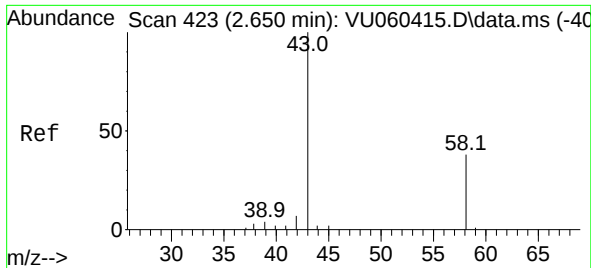
Ion Ratio Lower Upper

96 100

61 161.9 114.4 212.4

63 103.2 96.0 178.4





#13

Acetone

Concen: 46.404 ug/L

RT: 2.644 min Scan# 41

Delta R.T. -0.006 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

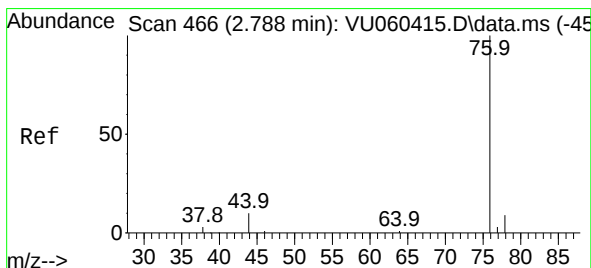
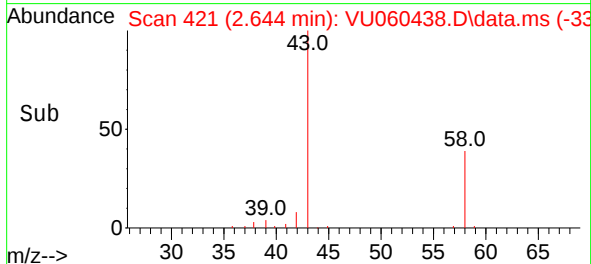
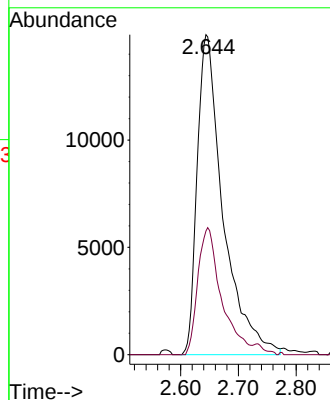
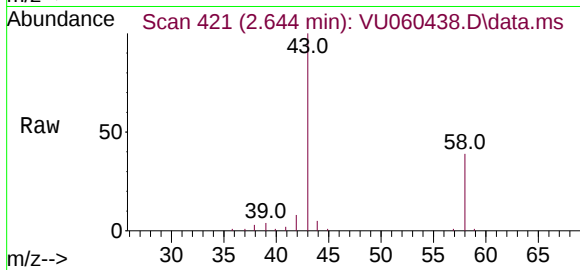
ClientSampleId :

Tgt Ion: 43 Resp: 46446

Ion Ratio Lower Upper

43 100

58 36.2 0.0 78.8



#14

Carbon disulfide

Concen: 4.417 ug/L

RT: 2.785 min Scan# 465

Delta R.T. -0.003 min

Lab File: VU060438.D

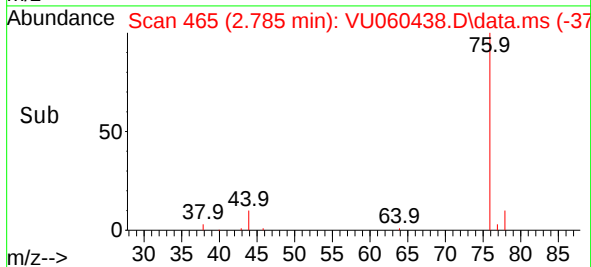
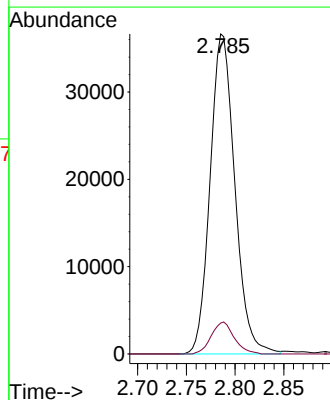
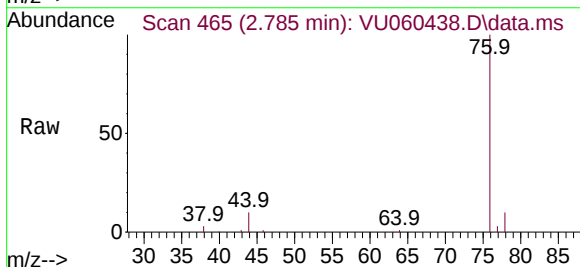
Acq: 13 Aug 2024 20:34

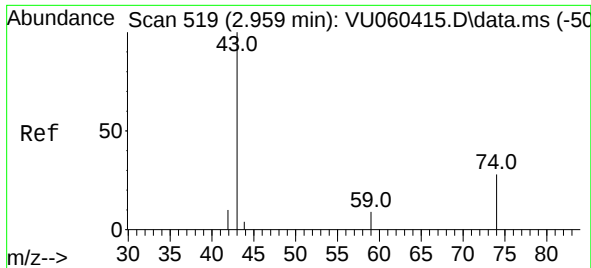
Tgt Ion: 76 Resp: 64647

Ion Ratio Lower Upper

76 100

78 9.7 7.4 11.0





#15

Methyl Acetate

Concen: 5.839 ug/L

RT: 2.956 min Scan# 519

Delta R.T. -0.003 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

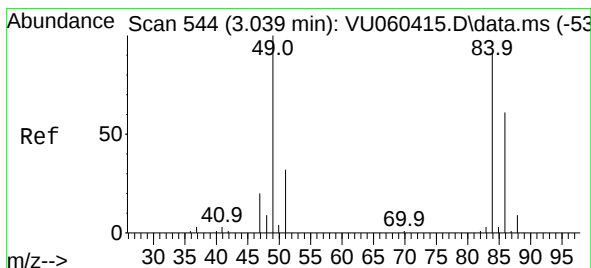
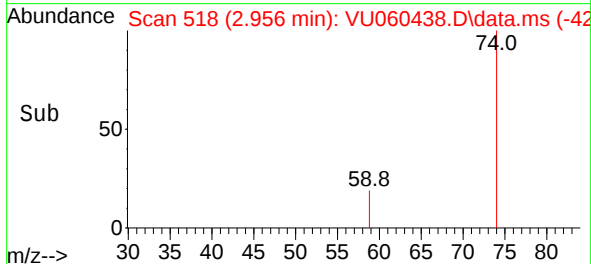
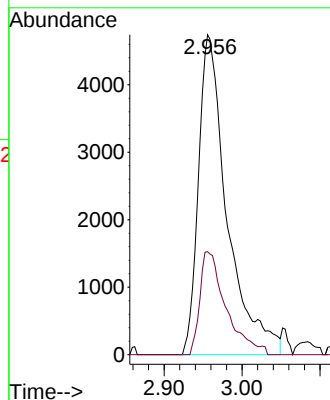
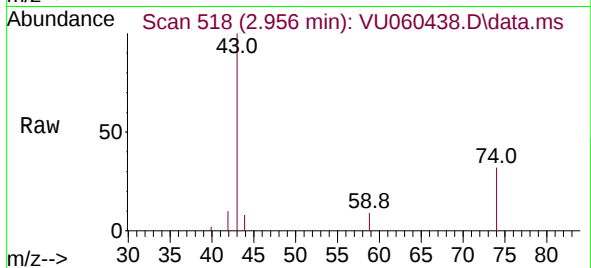
ClientSampleId :

Tgt Ion: 43 Resp: 12108

Ion Ratio Lower Upper

43 100

74 29.4 21.3 31.9



#16

Methylene chloride

Concen: 4.320 ug/L

RT: 3.039 min Scan# 544

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

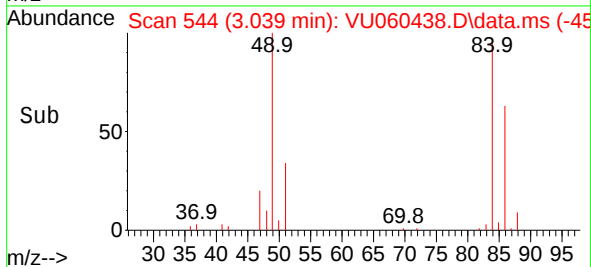
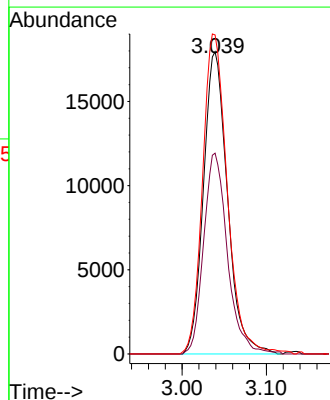
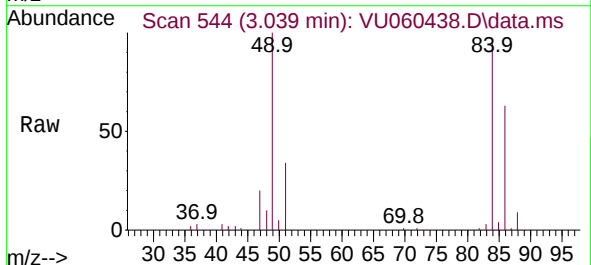
Tgt Ion: 84 Resp: 35626

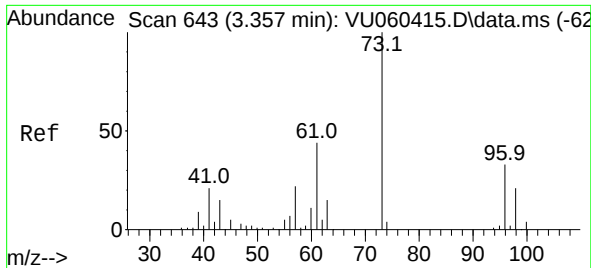
Ion Ratio Lower Upper

84 100

86 66.5 47.1 87.5

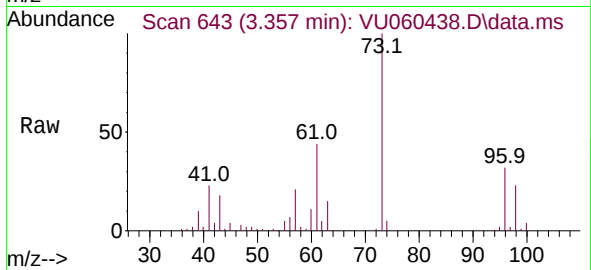
49 105.6 73.9 137.3



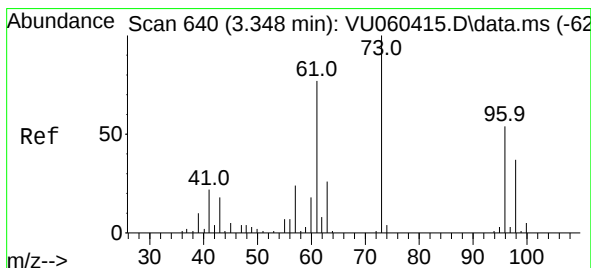
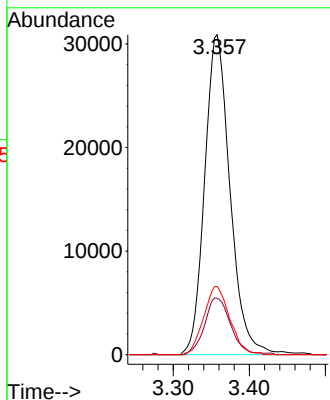
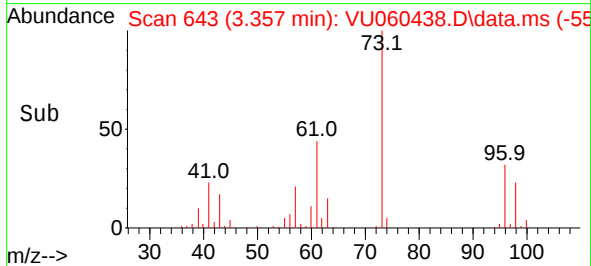


#17  
Methyl tert-butyl Ether  
Concen: 5.226 ug/L  
RT: 3.357 min Scan# 643  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

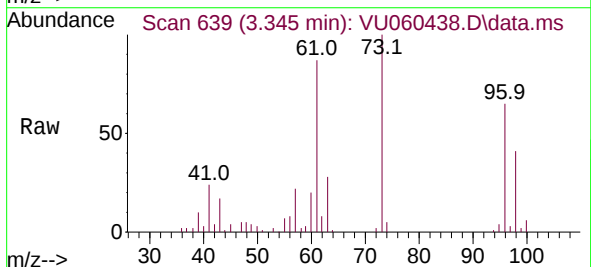
Instrument :  
MSVOA\_U  
ClientSampleId :



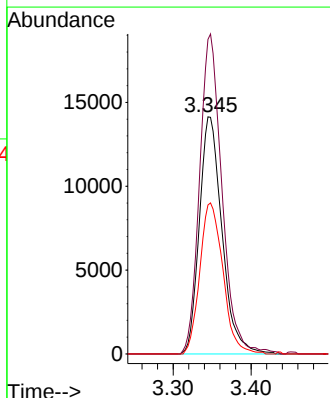
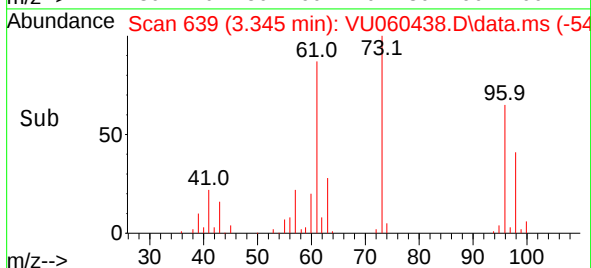
Tgt Ion: 73 Resp: 71482  
Ion Ratio Lower Upper  
73 100  
43 18.3 12.8 19.2  
57 21.8 17.5 26.3

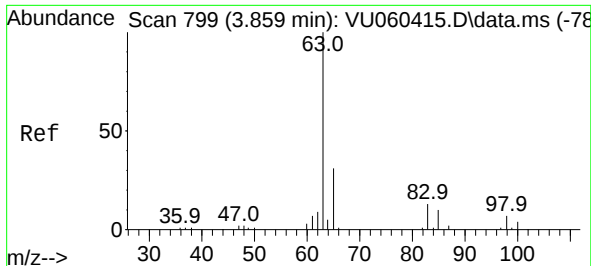


#18  
trans-1,2-Dichloroethene  
Concen: 5.018 ug/L  
RT: 3.345 min Scan# 639  
Delta R.T. -0.003 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34



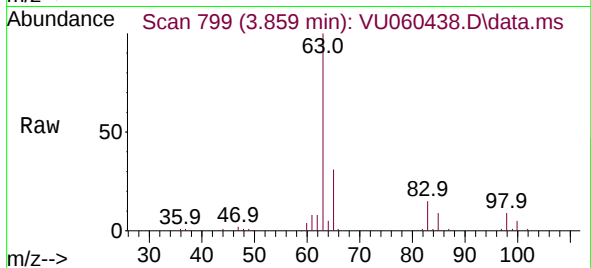
Tgt Ion: 96 Resp: 28559  
Ion Ratio Lower Upper  
96 100  
61 132.7 93.7 174.1  
98 62.8 44.7 82.9



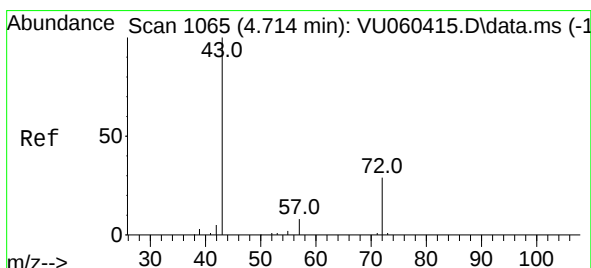
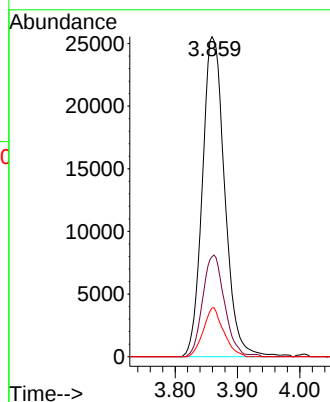
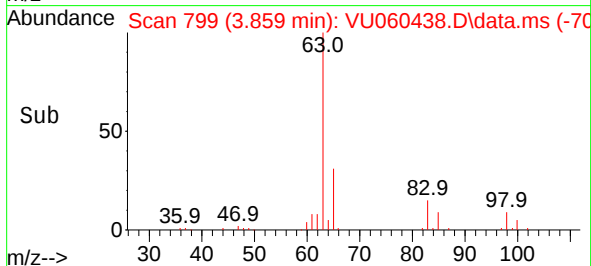


#19  
1,1-Dichloroethane  
Concen: 5.406 ug/L  
RT: 3.859 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Instrument :  
MSVOA\_U  
ClientSampleId :

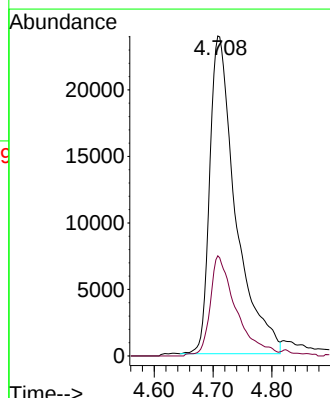
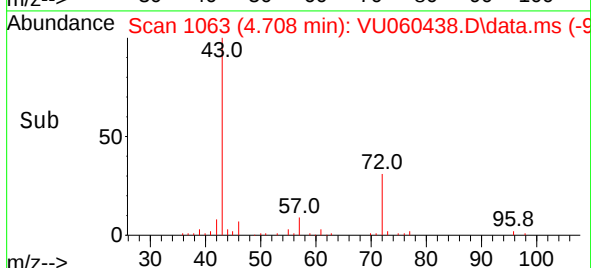
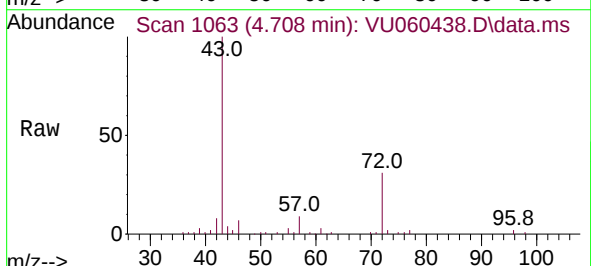


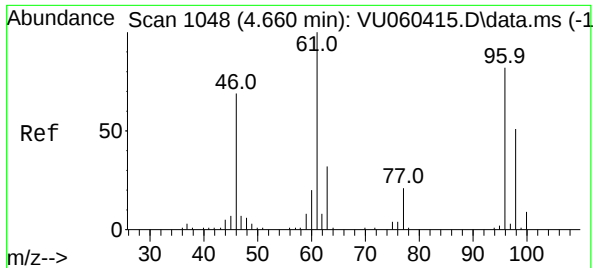
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 63    | Resp: | 63518 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 65        | 31.3  | 22.2  | 41.2  |
| 83        | 15.2  | 9.1   | 16.9  |



#21  
2-Butanone  
Concen: 49.163 ug/L  
RT: 4.708 min Scan# 1063  
Delta R.T. -0.006 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

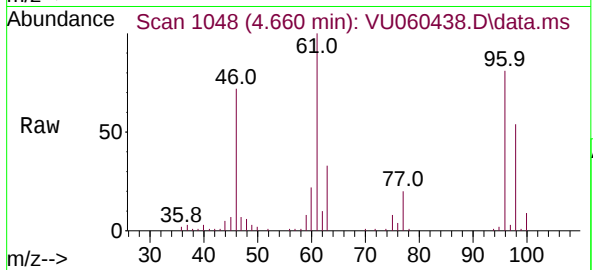
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 73341 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 72        | 31.4  | 15.9  | 47.6  |



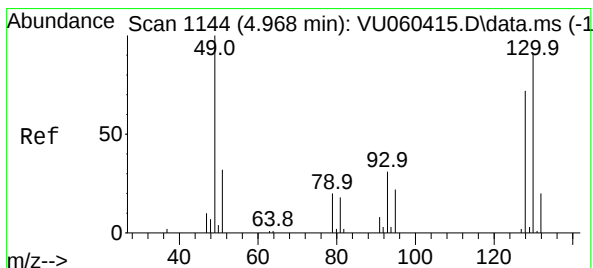
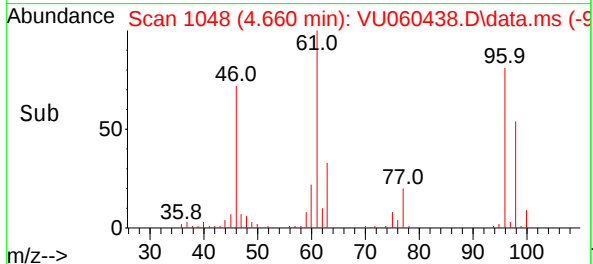
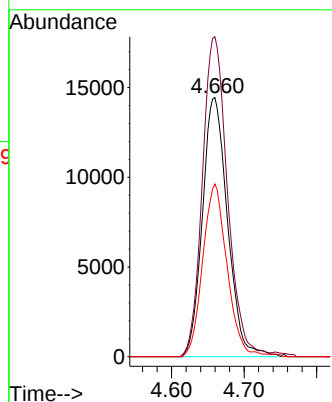


#22  
 cis-1,2-Dichloroethene  
 Concen: 5.061 ug/L  
 RT: 4.660 min Scan# 1048  
 Delta R.T. 0.000 min  
 Lab File: VU060438.D  
 Acq: 13 Aug 2024 20:34

Instrument :  
 MSVOA\_U  
 ClientSampleId :

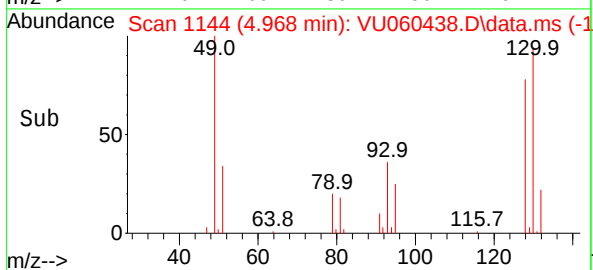
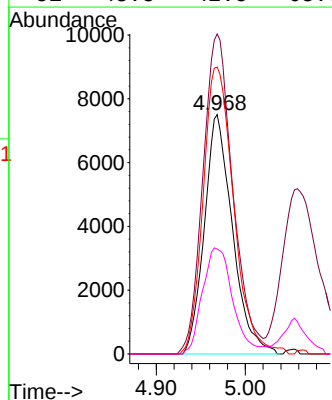
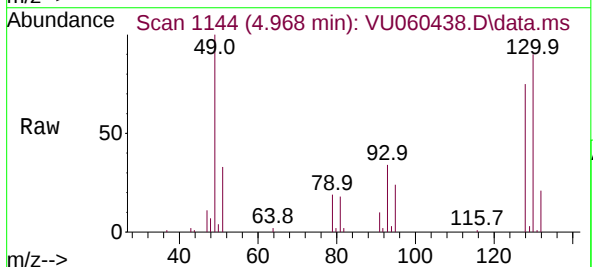


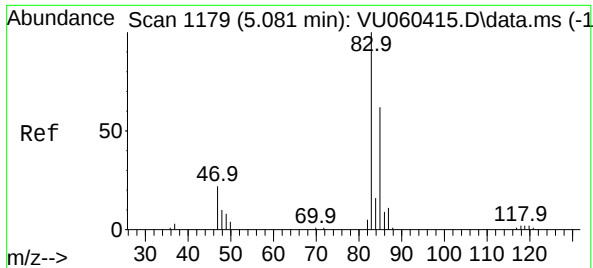
Tgt Ion: 96 Resp: 34769  
 Ion Ratio Lower Upper  
 96 100  
 61 123.5 81.5 151.5  
 98 66.6 43.5 80.7



#23  
 Bromochloromethane  
 Concen: 5.190 ug/L  
 RT: 4.968 min Scan# 1144  
 Delta R.T. 0.000 min  
 Lab File: VU060438.D  
 Acq: 13 Aug 2024 20:34

Tgt Ion: 128 Resp: 16457  
 Ion Ratio Lower Upper  
 128 100  
 49 133.6 101.0 187.6  
 130 119.8 92.7 172.1  
 51 43.8 42.5 63.7

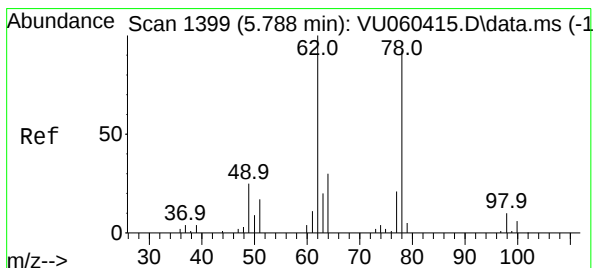
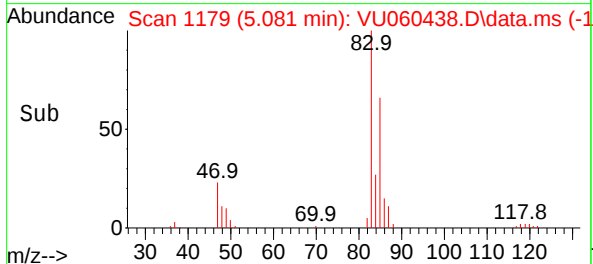
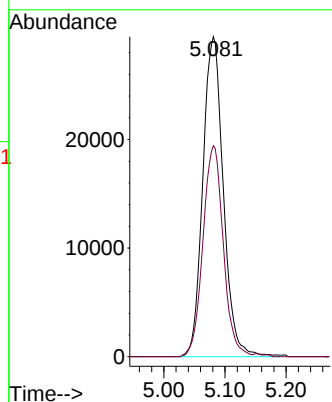
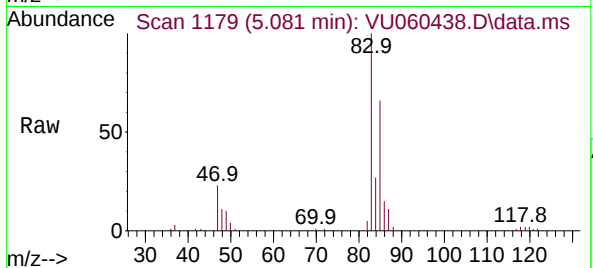




#25  
Chloroform  
Concen: 5.374 ug/L  
RT: 5.081 min Scan# 1179  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

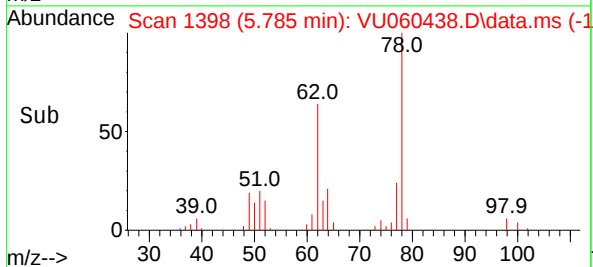
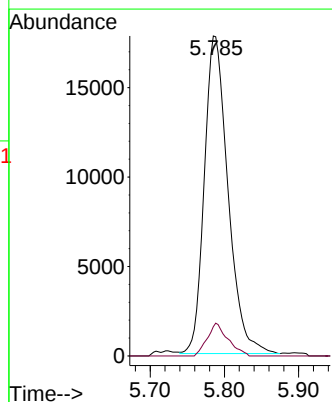
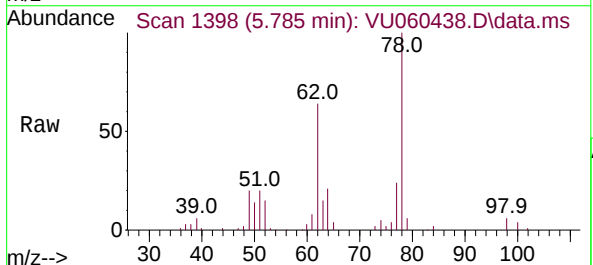
Instrument :  
MSVOA\_U  
ClientSampleId :

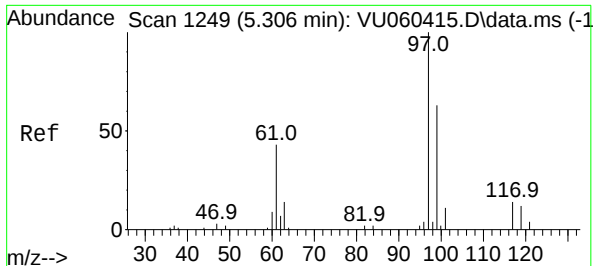
Tgt Ion: 83 Resp: 68686  
Ion Ratio Lower Upper  
83 100  
85 66.0 45.6 84.6



#27  
1,2-Dichloroethane  
Concen: 5.786 ug/L  
RT: 5.785 min Scan# 1398  
Delta R.T. -0.003 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Tgt Ion: 62 Resp: 39334  
Ion Ratio Lower Upper  
62 100  
98 9.2 9.0 13.6

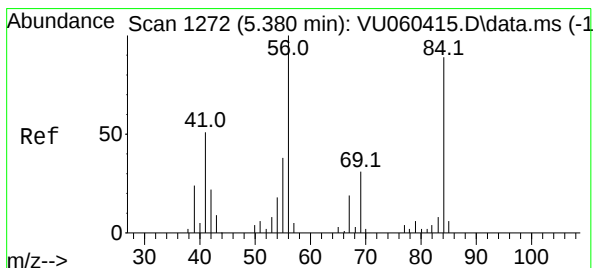
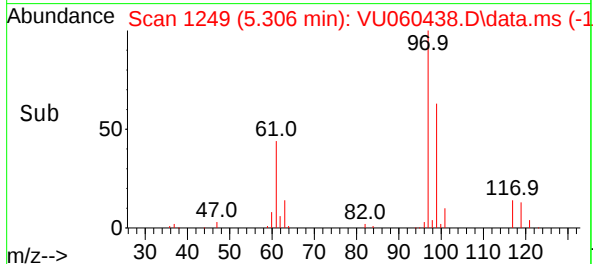
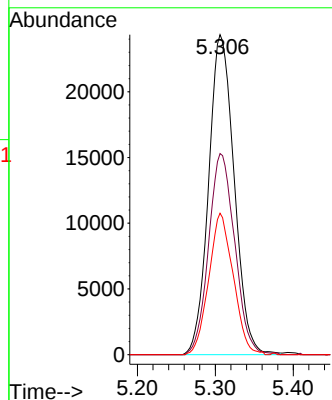
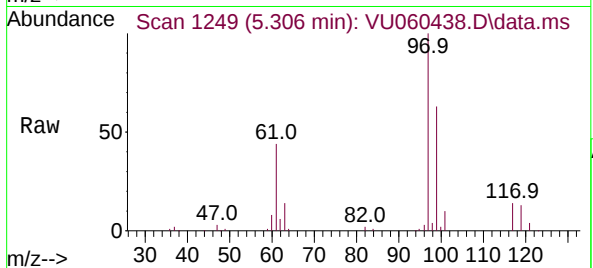




#29  
1,1,1-Trichloroethane  
Concen: 5.362 ug/L  
RT: 5.306 min Scan# 1249  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

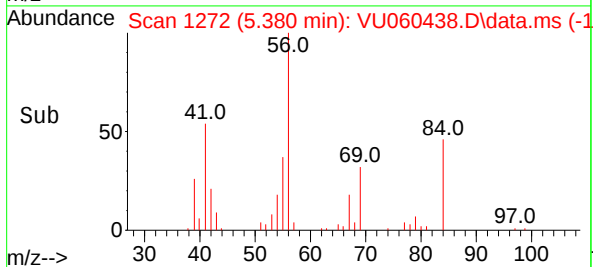
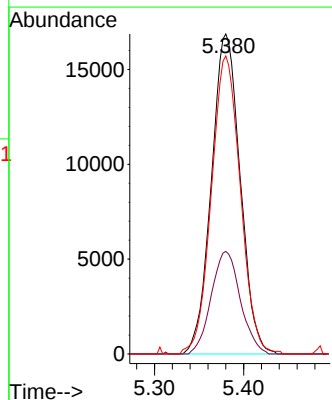
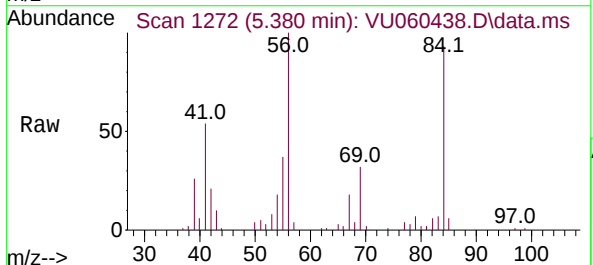
Instrument :  
MSVOA\_U  
ClientSampleId :

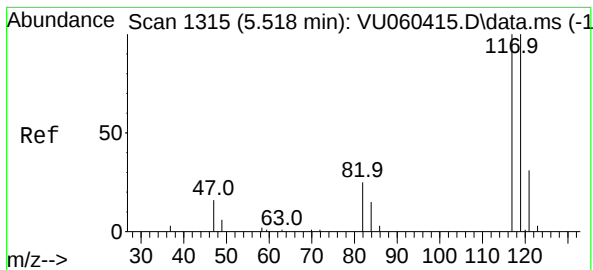
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 55532 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.1  | 51.4  | 77.2  |
| 61       | 42.3  | 33.0  | 49.6  |



#30  
Cyclohexane  
Concen: 4.512 ug/L  
RT: 5.380 min Scan# 1272  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 37829 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 32.5  | 24.7  | 37.1  |
| 84       | 93.6  | 70.7  | 106.1 |

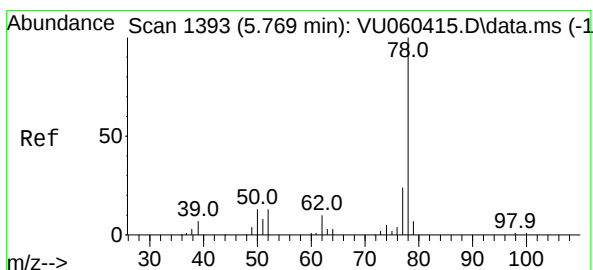
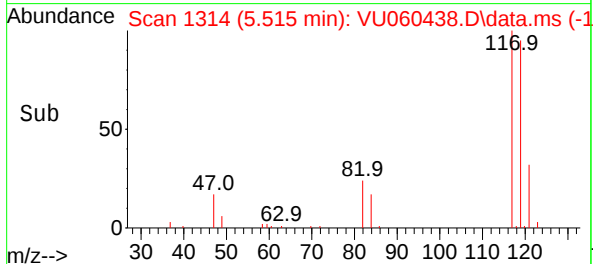
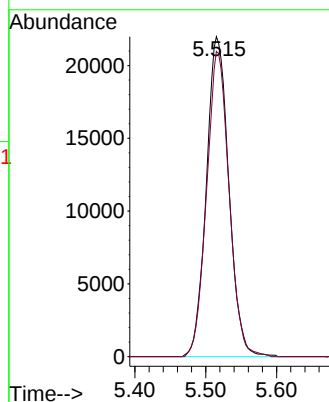
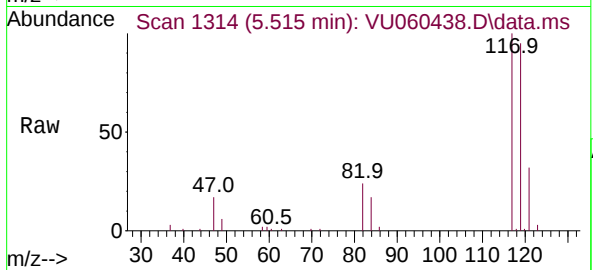




#31  
Carbon tetrachloride  
Concen: 5.331 ug/L  
RT: 5.515 min Scan# 1315  
Delta R.T. -0.003 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

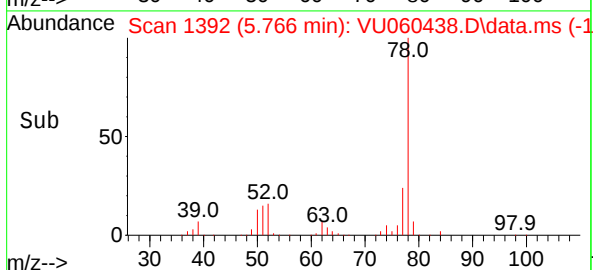
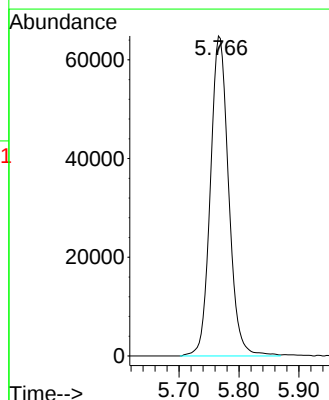
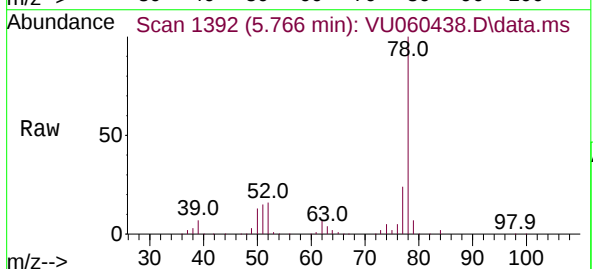
Instrument :  
MSVOA\_U  
ClientSampleId :

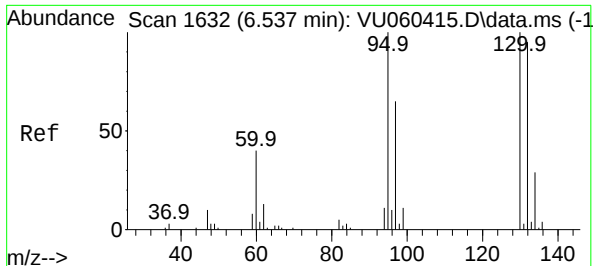
Tgt Ion:117 Resp: 48386  
Ion Ratio Lower Upper  
117 100  
119 95.5 75.8 113.8



#33  
Benzene  
Concen: 5.031 ug/L  
RT: 5.766 min Scan# 1392  
Delta R.T. -0.003 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

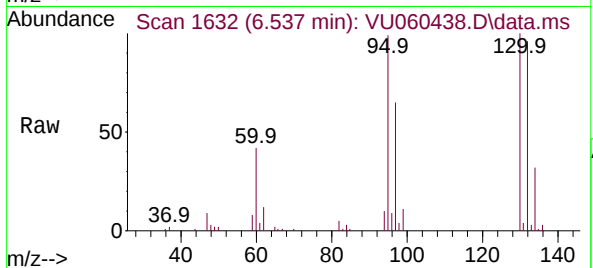
Tgt Ion: 78 Resp: 137038





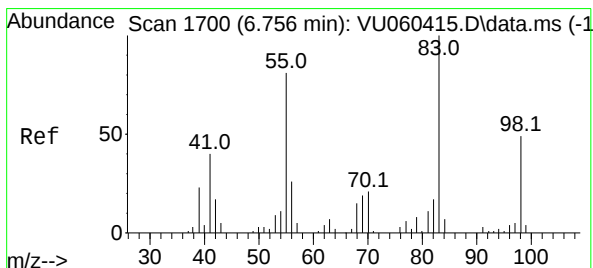
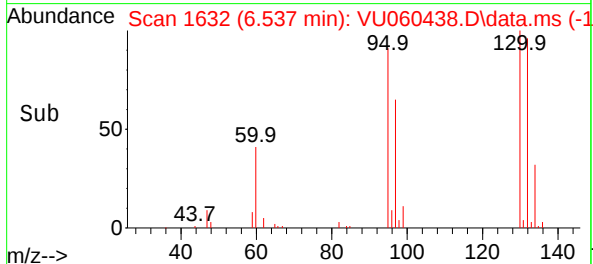
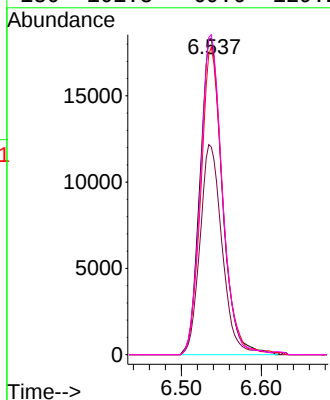
#34  
Trichloroethene  
Concen: 4.996 ug/L  
RT: 6.537 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion: 95 Resp: 35626

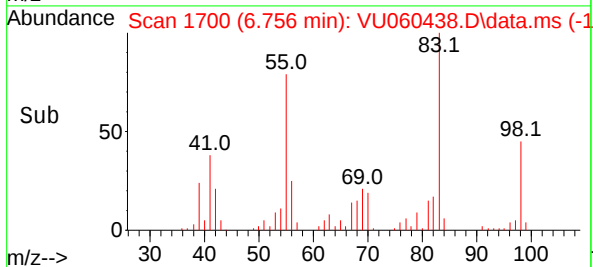
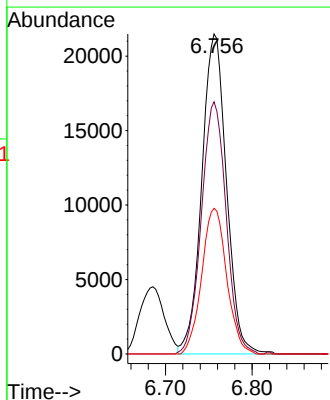
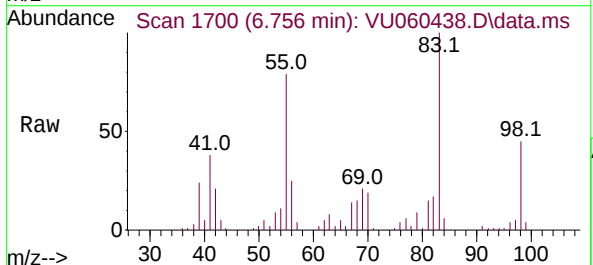
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.7  | 43.6  | 81.0  |
| 132 | 97.3  | 67.1  | 124.5 |
| 130 | 101.3 | 69.6  | 129.2 |

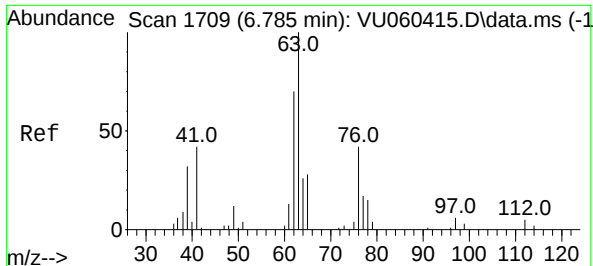


#35  
Methylcyclohexane  
Concen: 4.577 ug/L  
RT: 6.756 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Tgt Ion: 83 Resp: 42618

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 78.9  | 62.4  | 93.6  |
| 98  | 46.0  | 37.3  | 55.9  |

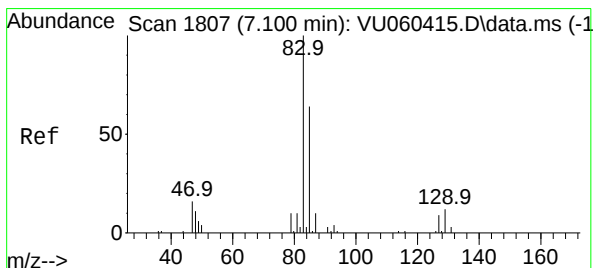
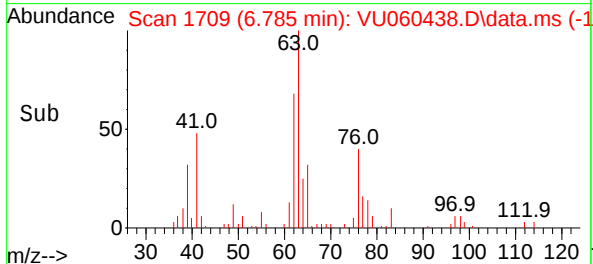
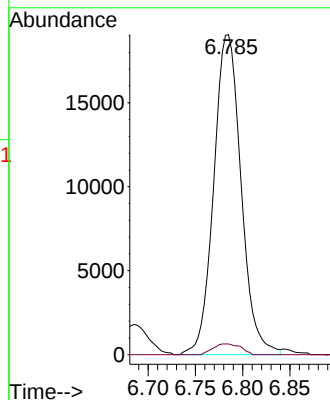
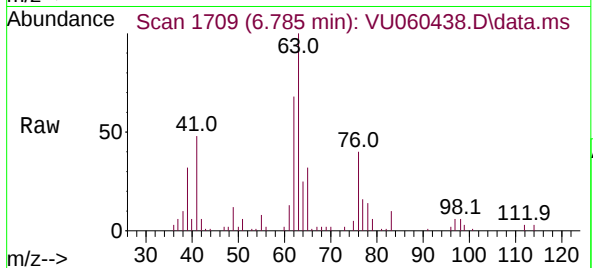




#37  
1,2-Dichloropropane  
Concen: 5.176 ug/L  
RT: 6.785 min Scan# 1709  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

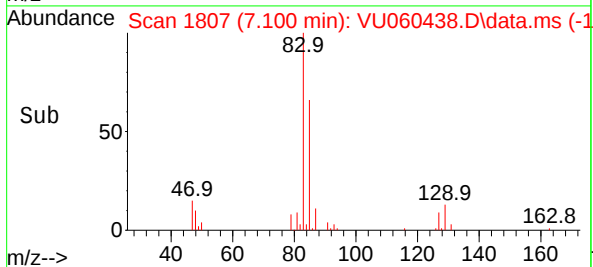
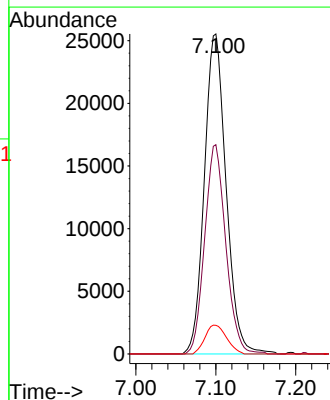
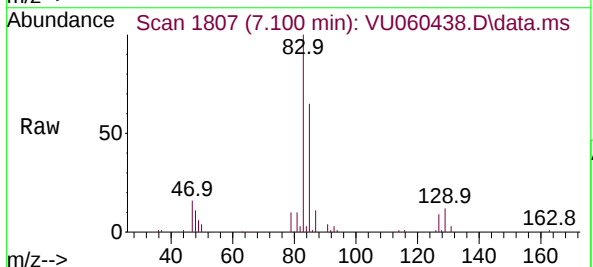
Instrument :  
MSVOA\_U  
ClientSampleId :

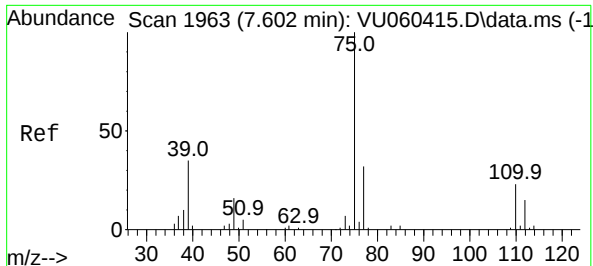
Tgt Ion: 63 Resp: 38369  
Ion Ratio Lower Upper  
63 100  
112 3.4 3.3 4.9



#38  
Bromodichloromethane  
Concen: 5.277 ug/L  
RT: 7.100 min Scan# 1807  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Tgt Ion: 83 Resp: 48350  
Ion Ratio Lower Upper  
83 100  
85 65.4 42.4 78.8  
127 9.0 7.0 10.4

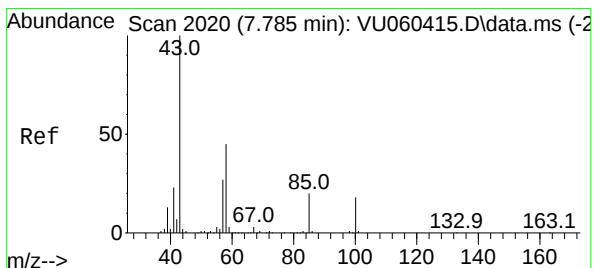
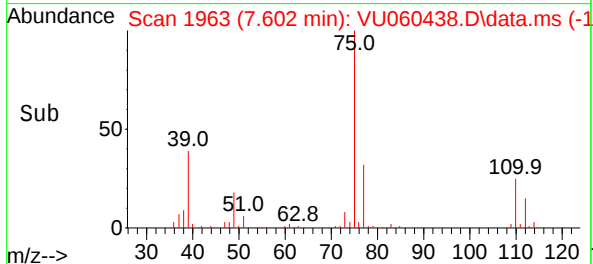
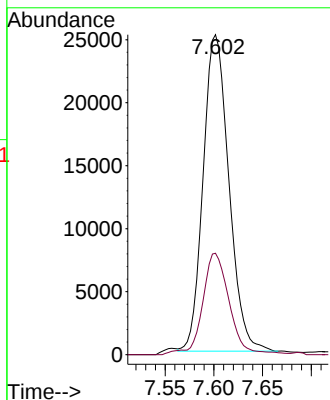
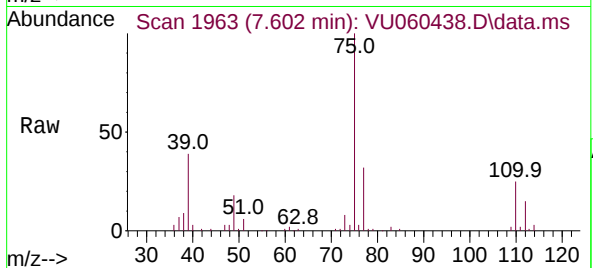




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.596 ug/L  
 RT: 7.602 min Scan# 1963  
 Delta R.T. 0.000 min  
 Lab File: VU060438.D  
 Acq: 13 Aug 2024 20:34

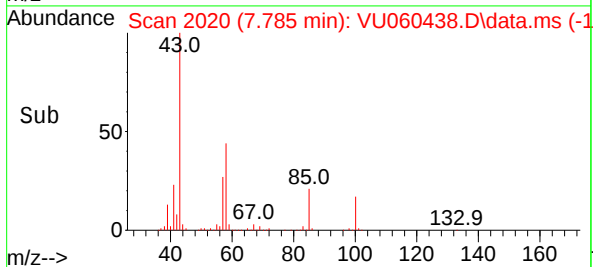
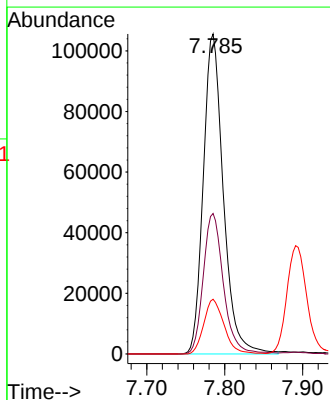
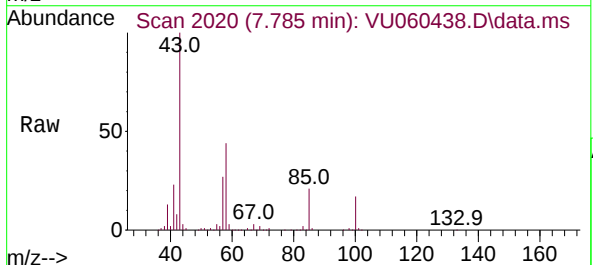
Instrument :  
 MSVOA\_U  
 ClientSampleId :

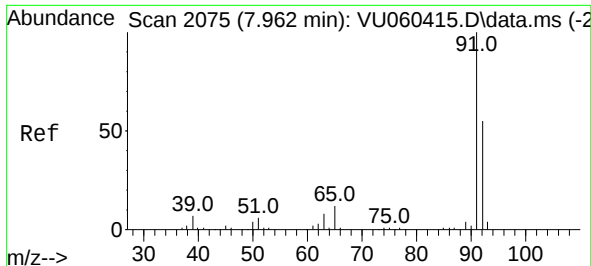
Tgt Ion: 75 Resp: 46275  
 Ion Ratio Lower Upper  
 75 100  
 77 31.7 22.5 41.9



#40  
 4-Methyl-2-pentanone  
 Concen: 54.601 ug/L  
 RT: 7.785 min Scan# 2020  
 Delta R.T. 0.000 min  
 Lab File: VU060438.D  
 Acq: 13 Aug 2024 20:34

Tgt Ion: 43 Resp: 188946  
 Ion Ratio Lower Upper  
 43 100  
 58 44.2 36.6 55.0  
 100 17.3 14.1 21.1





#42

Toluene

Concen: 5.158 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

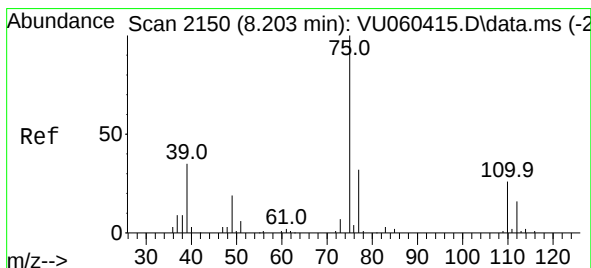
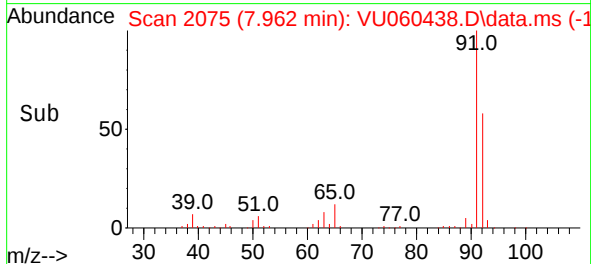
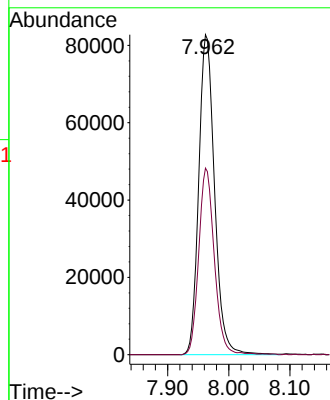
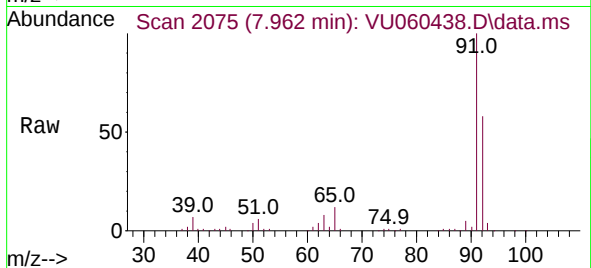
ClientSampleId :

Tgt Ion: 91 Resp: 148472

Ion Ratio Lower Upper

91 100

92 58.3 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 5.084 ug/L

RT: 8.203 min Scan# 2150

Delta R.T. 0.000 min

Lab File: VU060438.D

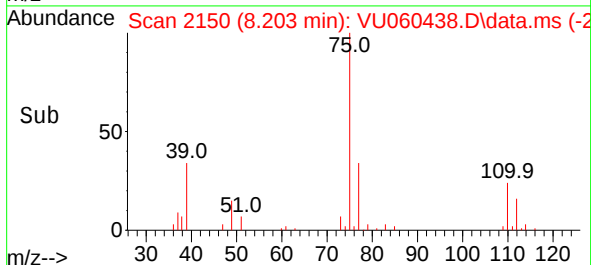
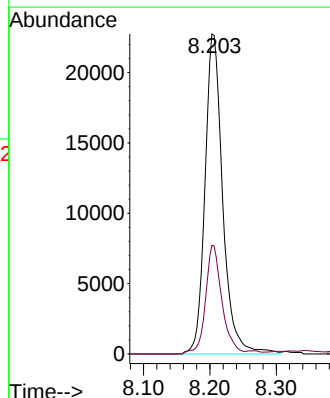
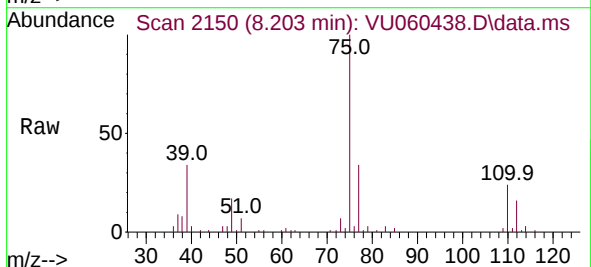
Acq: 13 Aug 2024 20:34

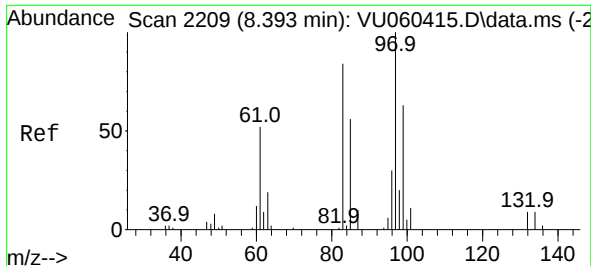
Tgt Ion: 75 Resp: 42289

Ion Ratio Lower Upper

75 100

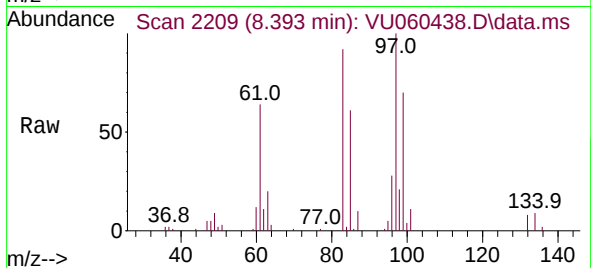
77 33.9 25.0 46.4



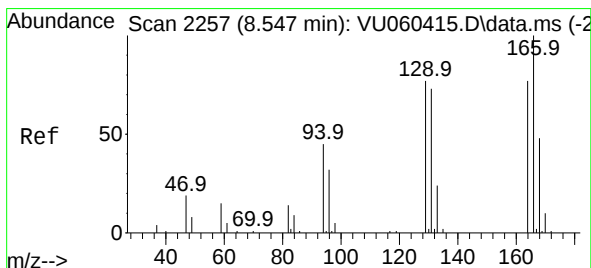
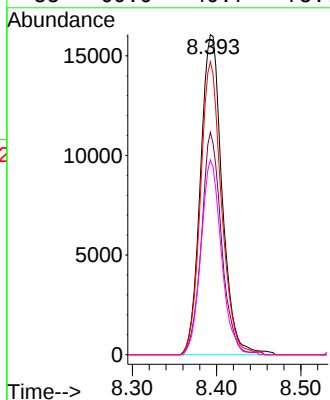
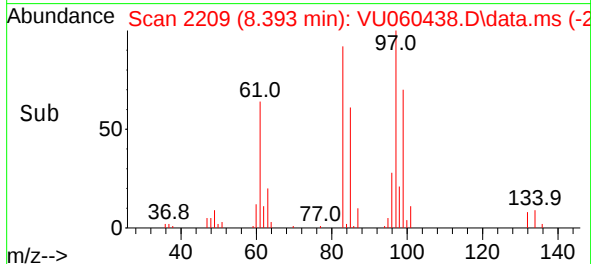


#45  
1,1,2-Trichloroethane  
Concen: 5.069 ug/L  
RT: 8.393 min Scan# 2209  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

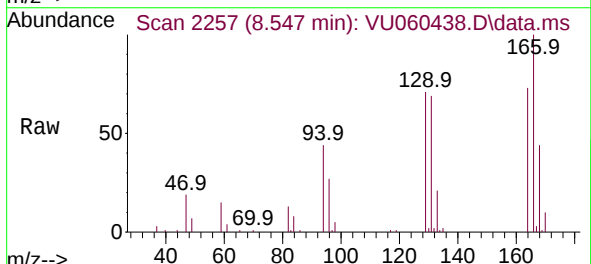
Instrument :  
MSVOA\_U  
ClientSampleId :



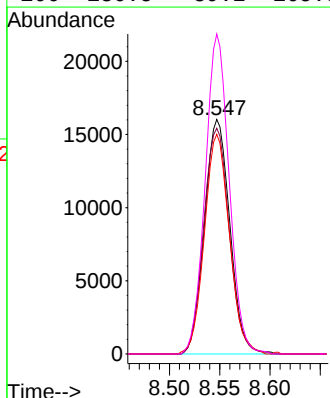
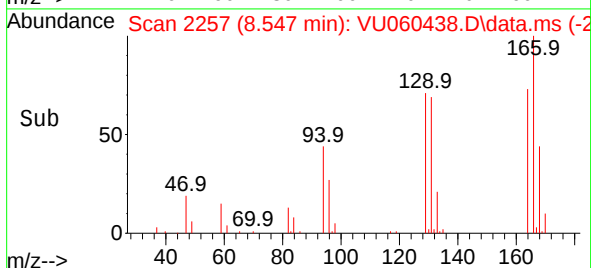
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 28780 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 69.5  | 45.8  | 85.0  |
| 83       | 91.6  | 61.7  | 114.5 |
| 85       | 60.9  | 40.7  | 75.7  |

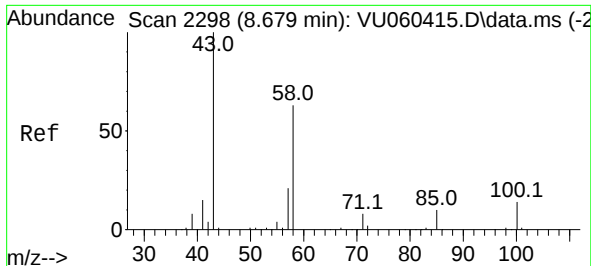


#47  
Tetrachloroethene  
Concen: 5.059 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 28214 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 96.2  | 69.0  | 128.1 |
| 131      | 93.7  | 62.6  | 116.3 |
| 166      | 136.5 | 89.2  | 165.8 |





#48

2-Hexanone

Concen: 55.299 ug/L

RT: 8.679 min Scan# 2298

Delta R.T. 0.000 min

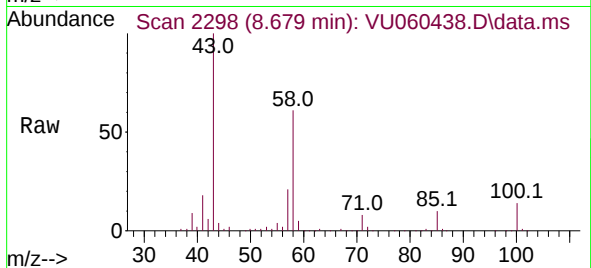
Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion: 43 Resp: 145069

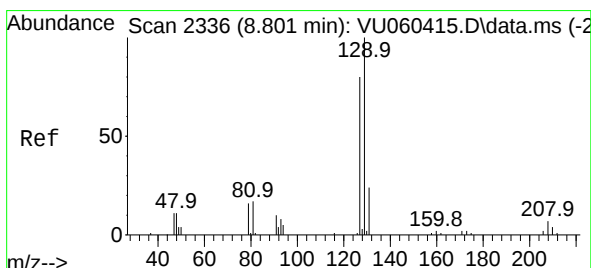
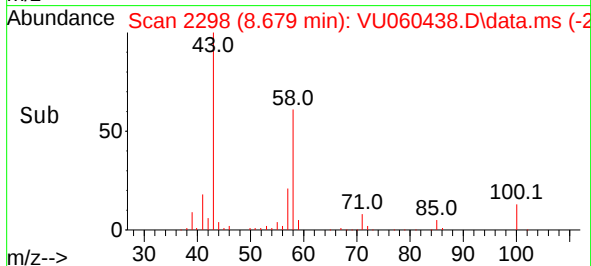
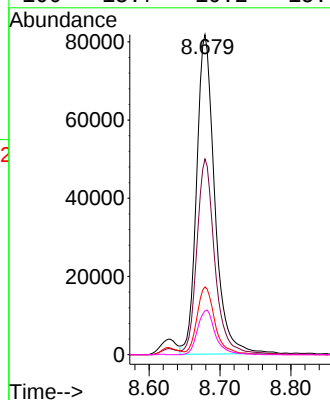
Ion Ratio Lower Upper

43 100

58 61.0 50.9 76.3

57 20.9 17.4 26.0

100 13.7 10.2 15.4



#49

Dibromochloromethane

Concen: 5.489 ug/L

RT: 8.801 min Scan# 2336

Delta R.T. 0.000 min

Lab File: VU060438.D

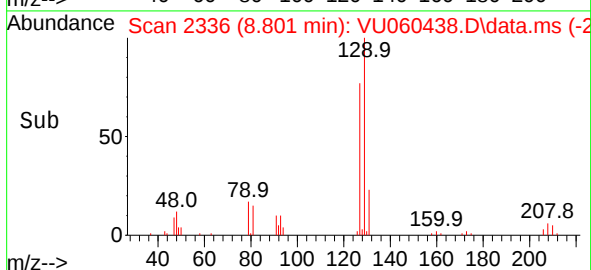
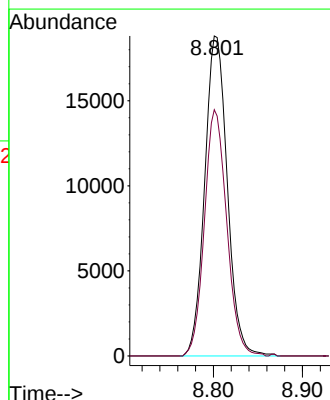
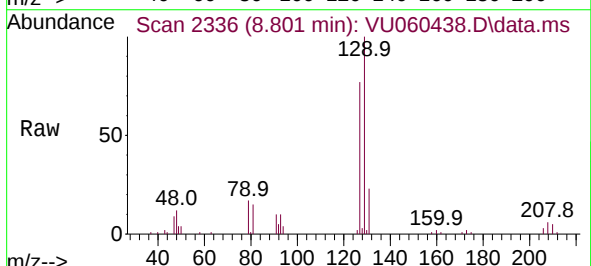
Acq: 13 Aug 2024 20:34

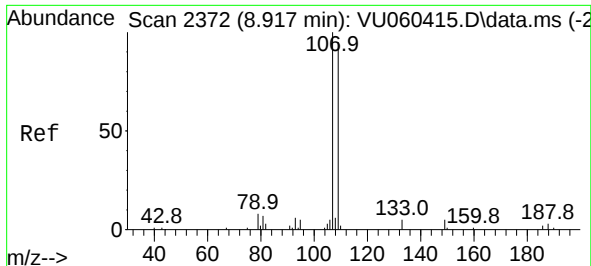
Tgt Ion: 129 Resp: 33138

Ion Ratio Lower Upper

129 100

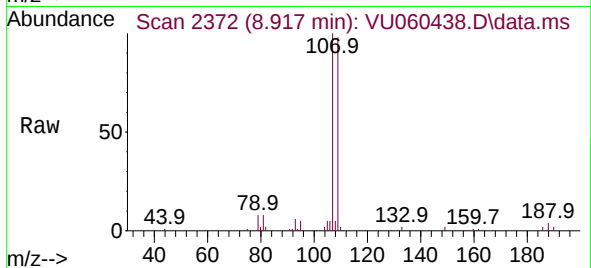
127 77.0 51.9 96.3



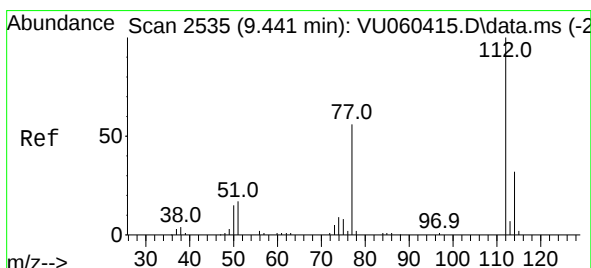
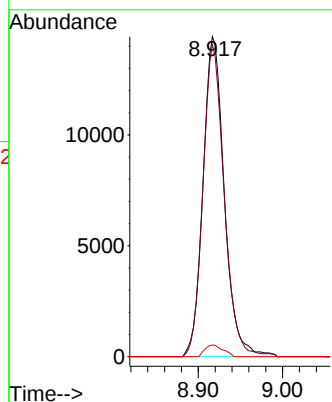
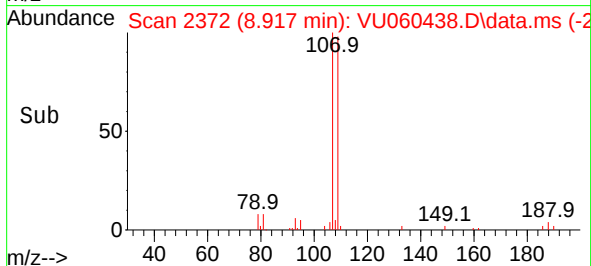


#50  
1,2-Dibromoethane  
Concen: 5.029 ug/L  
RT: 8.917 min Scan# 2372  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Instrument :  
MSVOA\_U  
ClientSampleId :

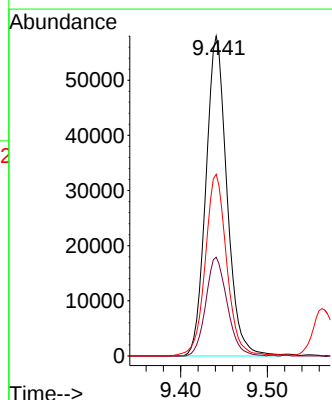
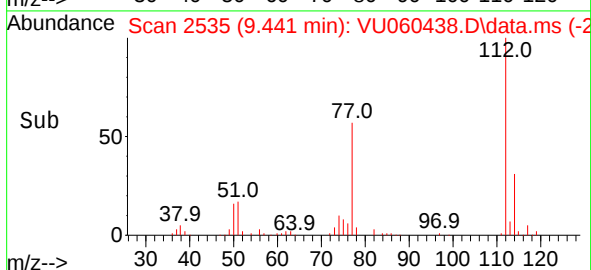
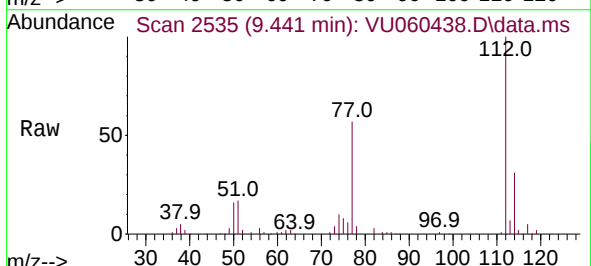


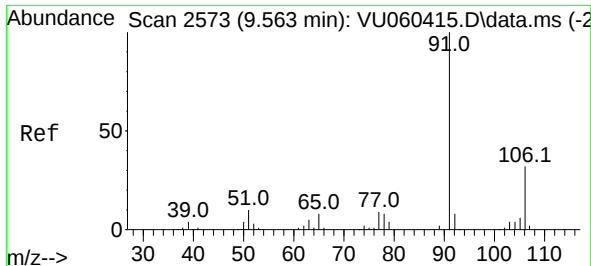
Tgt Ion:107 Resp: 25419  
Ion Ratio Lower Upper  
107 100  
109 97.5 64.8 120.3  
188 3.7 2.6 3.8



#51  
Chlorobenzene  
Concen: 5.055 ug/L  
RT: 9.441 min Scan# 2535  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Tgt Ion:112 Resp: 98155  
Ion Ratio Lower Upper  
112 100  
114 30.9 21.3 39.5  
77 56.8 44.6 67.0





#52

Ethylbenzene

Concen: 5.003 ug/L

RT: 9.563 min Scan# 2573

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

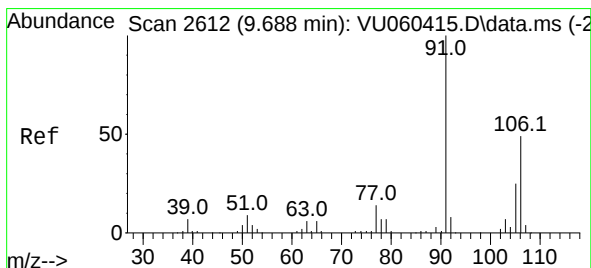
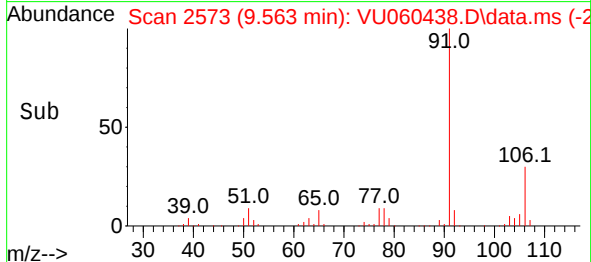
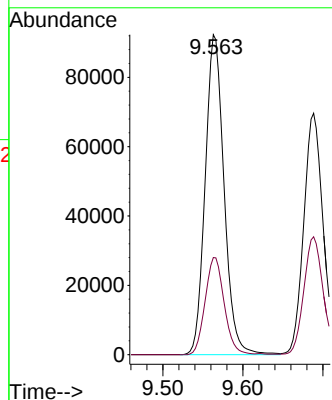
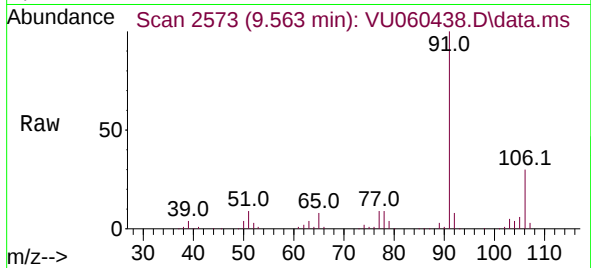
ClientSampleId :

Tgt Ion: 91 Resp: 151711

Ion Ratio Lower Upper

91 100

106 30.3 21.6 40.2



#53

m,p-Xylene

Concen: 5.089 ug/L

RT: 9.688 min Scan# 2612

Delta R.T. 0.000 min

Lab File: VU060438.D

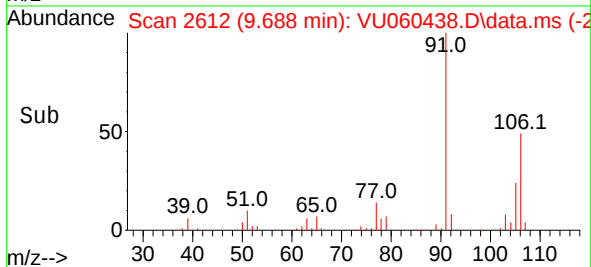
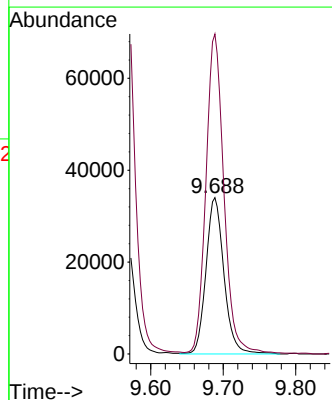
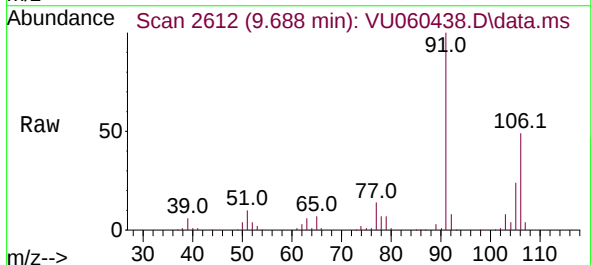
Acq: 13 Aug 2024 20:34

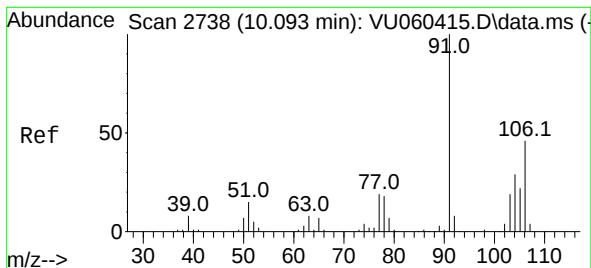
Tgt Ion: 106 Resp: 58645

Ion Ratio Lower Upper

106 100

91 204.8 143.2 266.0





#54

o-Xylene

Concen: 5.260 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

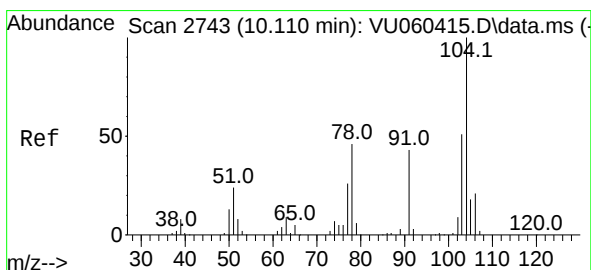
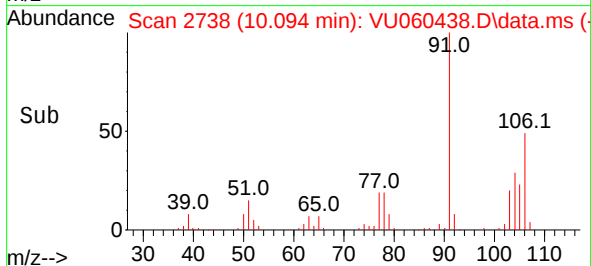
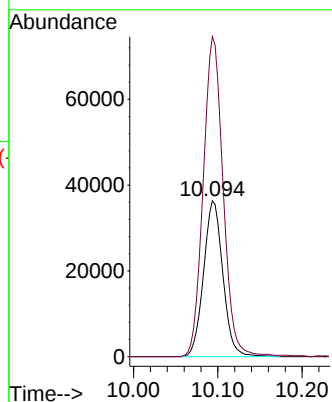
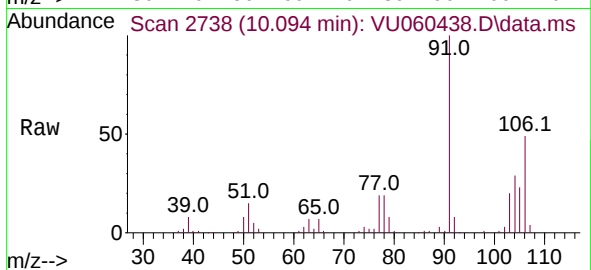
ClientSampleId :

Tgt Ion:106 Resp: 58012

Ion Ratio Lower Upper

106 100

91 205.4 150.2 279.0



#55

Styrene

Concen: 5.407 ug/L

RT: 10.110 min Scan# 2743

Delta R.T. 0.000 min

Lab File: VU060438.D

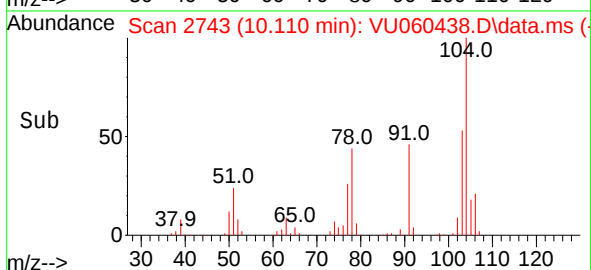
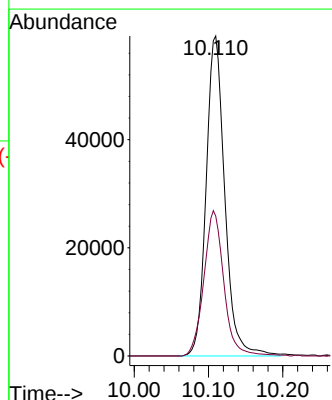
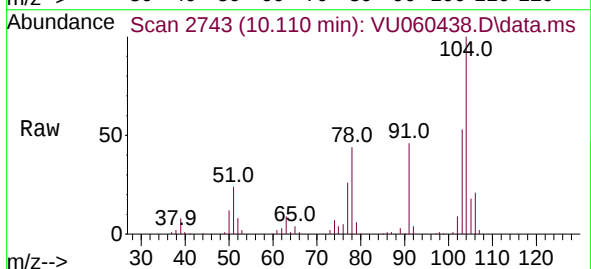
Acq: 13 Aug 2024 20:34

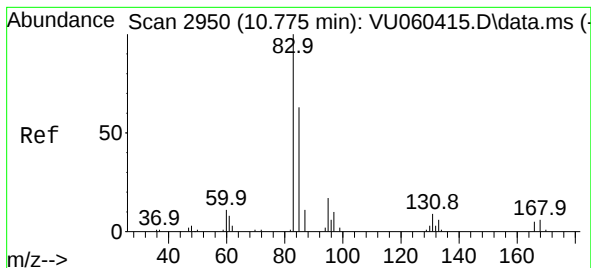
Tgt Ion:104 Resp: 103167

Ion Ratio Lower Upper

104 100

78 43.7 32.1 59.7





#57

1,1,2,2-Tetrachloroethane

Concen: 5.171 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

ClientSampleId :

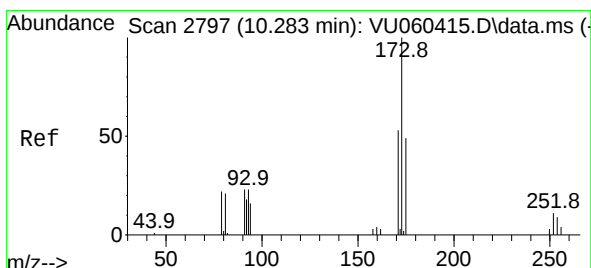
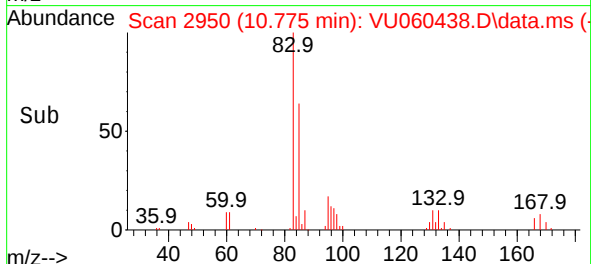
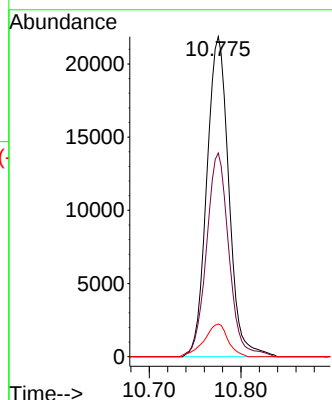
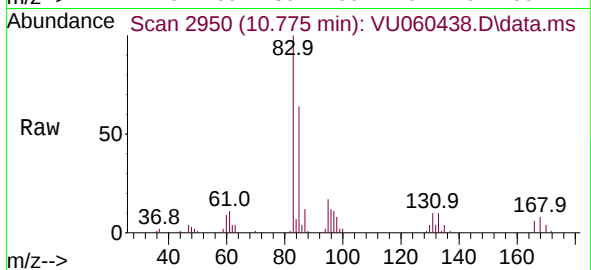
Tgt Ion: 83 Resp: 36505

Ion Ratio Lower Upper

83 100

85 63.6 46.1 85.5

131 10.2 7.6 11.4



#59

Bromoform

Concen: 5.062 ug/L

RT: 10.283 min Scan# 2797

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

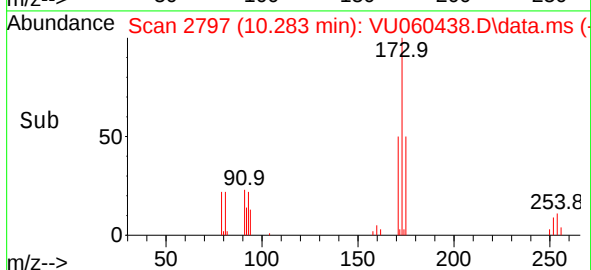
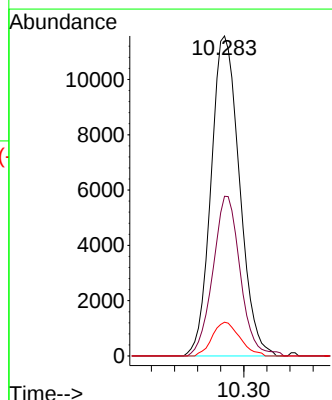
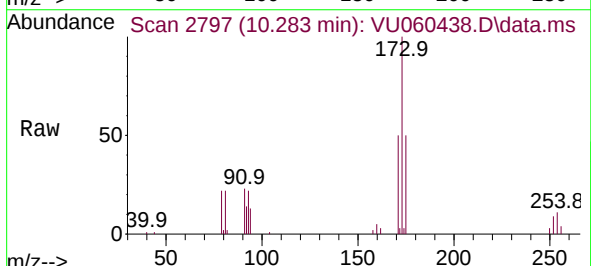
Tgt Ion:173 Resp: 19782

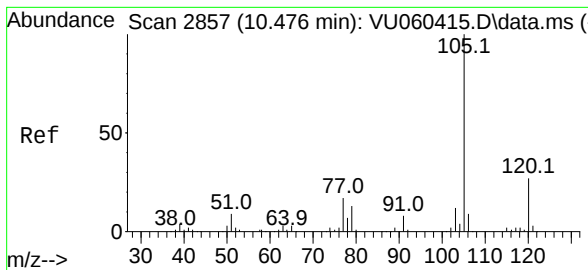
Ion Ratio Lower Upper

173 100

175 48.0 39.7 59.5

254 10.2 8.2 12.4





#60

Isopropylbenzene

Concen: 4.889 ug/L

RT: 10.479 min Scan# 2857

Delta R.T. 0.003 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

ClientSampleId :

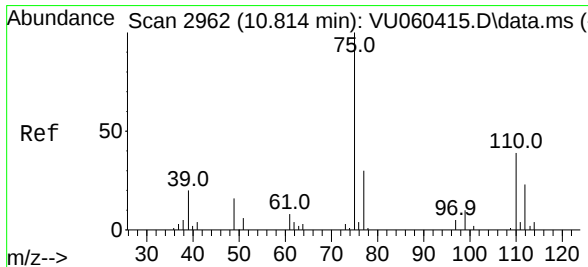
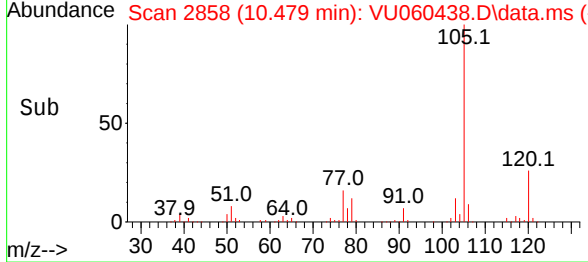
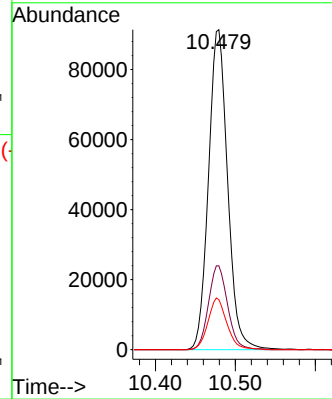
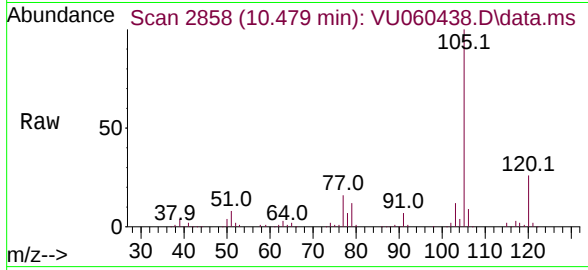
Tgt Ion:105 Resp: 151930

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.6

77 16.0 12.6 19.0



#61

1,2,3-Trichloropropane

Concen: 5.133 ug/L

RT: 10.814 min Scan# 2962

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

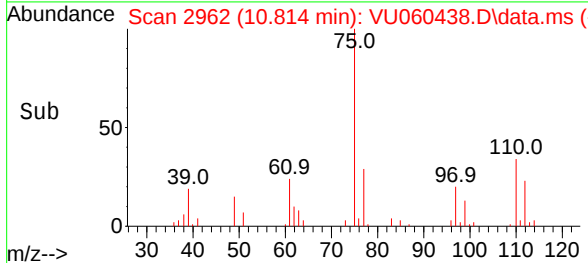
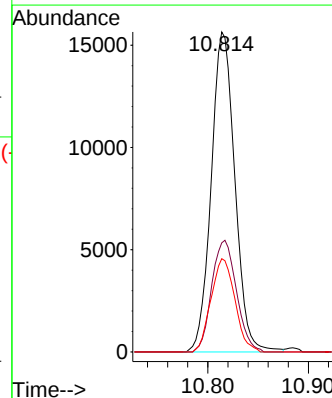
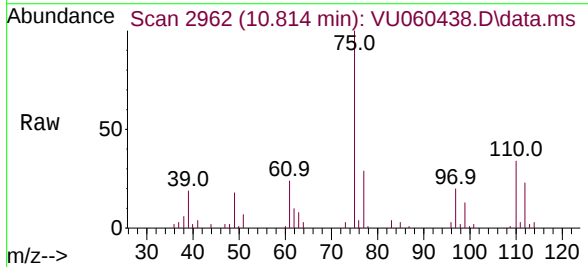
Tgt Ion: 75 Resp: 25577

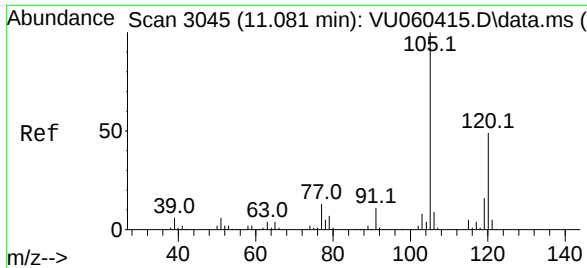
Ion Ratio Lower Upper

75 100

110 36.4 29.9 44.9

77 29.4 27.0 40.6





#62

1,3,5-Trimethylbenzene

Concen: 4.898 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

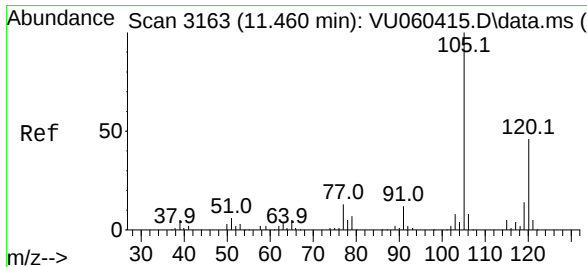
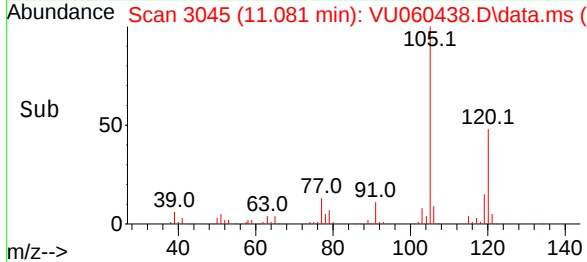
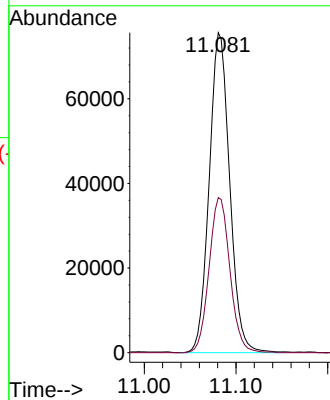
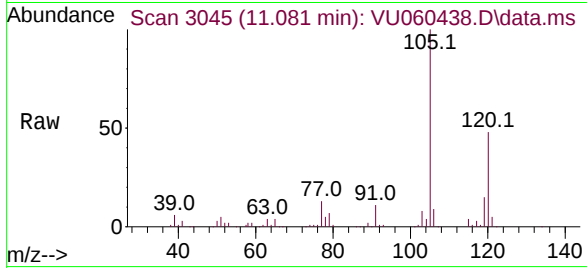
ClientSampleId :

Tgt Ion:105 Resp: 117172

Ion Ratio Lower Upper

105 100

120 49.4 39.3 58.9



#63

1,2,4-Trimethylbenzene

Concen: 4.936 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. 0.000 min

Lab File: VU060438.D

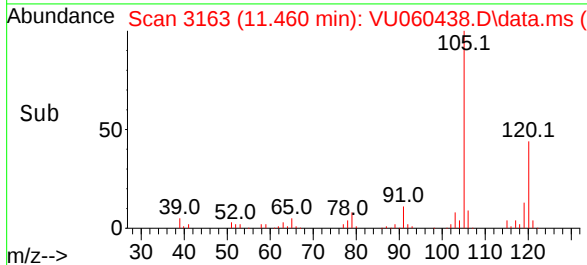
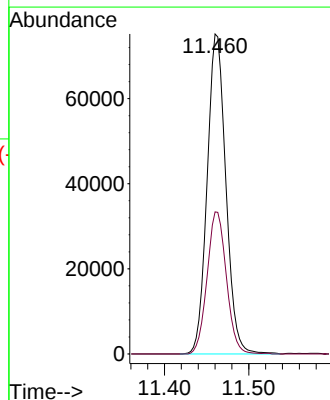
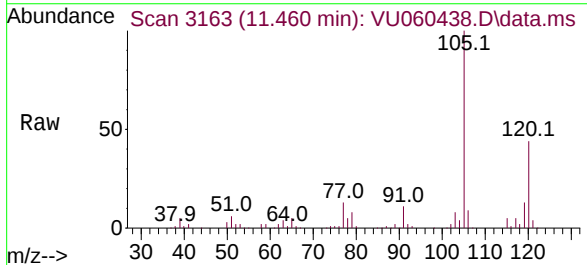
Acq: 13 Aug 2024 20:34

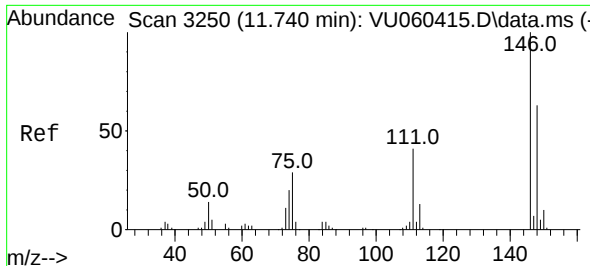
Tgt Ion:105 Resp: 116371

Ion Ratio Lower Upper

105 100

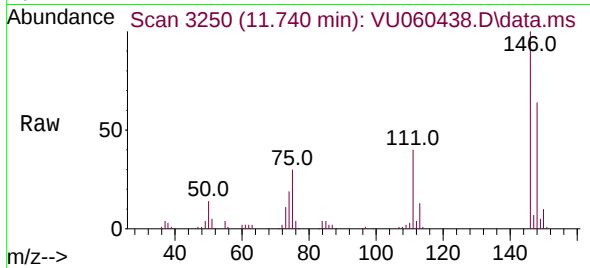
120 45.7 36.1 54.1



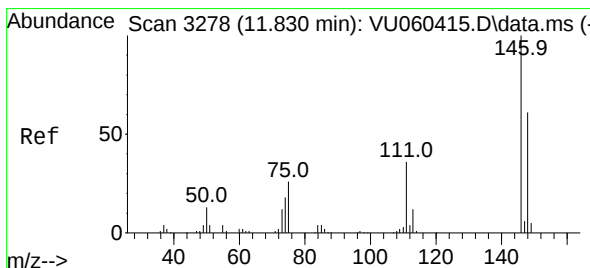
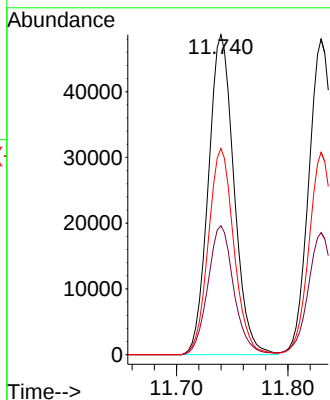
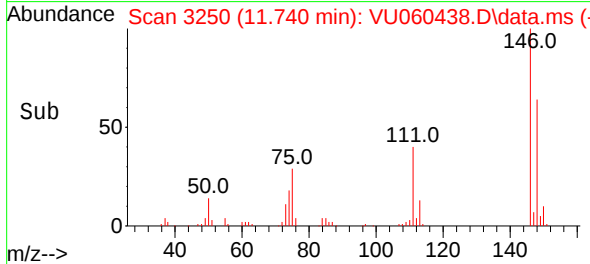


#64  
1,3-Dichlorobenzene  
Concen: 4.913 ug/L  
RT: 11.740 min Scan# 3250  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

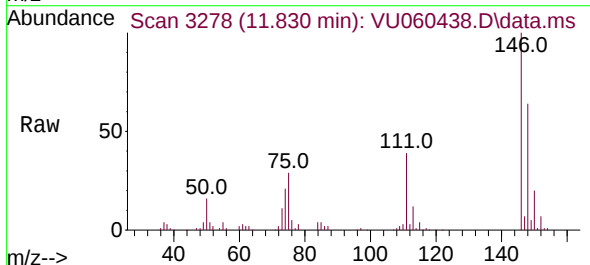
Instrument :  
MSVOA\_U  
ClientSampleId :



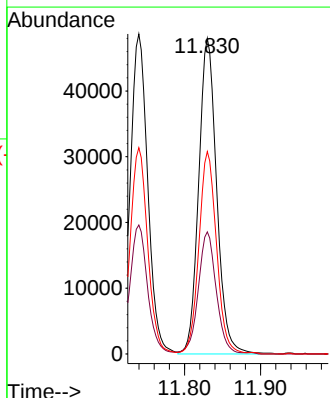
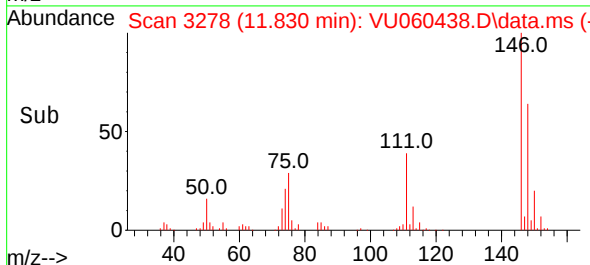
Tgt Ion:146 Resp: 77808  
Ion Ratio Lower Upper  
146 100  
111 40.3 29.2 54.2  
148 64.4 44.9 83.3

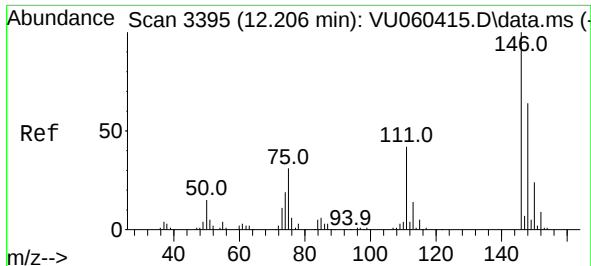


#65  
1,4-Dichlorobenzene  
Concen: 4.948 ug/L  
RT: 11.830 min Scan# 3278  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34



Tgt Ion:146 Resp: 78989  
Ion Ratio Lower Upper  
146 100  
111 38.7 25.8 48.0  
148 64.1 44.0 81.6





#67

1,2-Dichlorobenzene

Concen: 5.042 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

ClientSampleId :

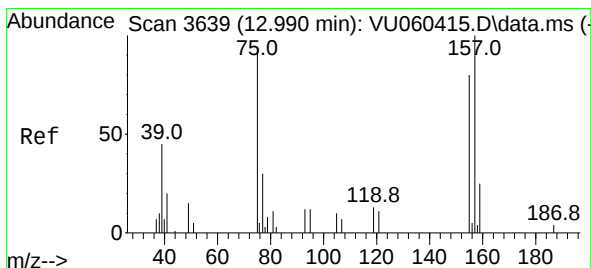
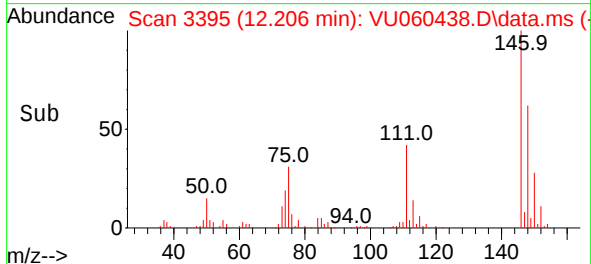
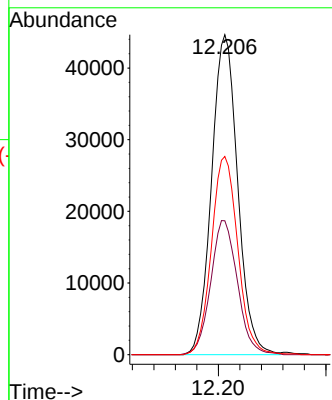
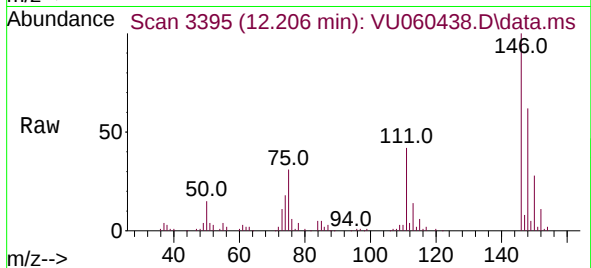
Tgt Ion:146 Resp: 75403

Ion Ratio Lower Upper

146 100

111 41.9 32.0 48.0

148 62.0 51.8 77.8



#68

1,2-Dibromo-3-chloropropane

Concen: 5.708 ug/L

RT: 12.987 min Scan# 3638

Delta R.T. -0.003 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

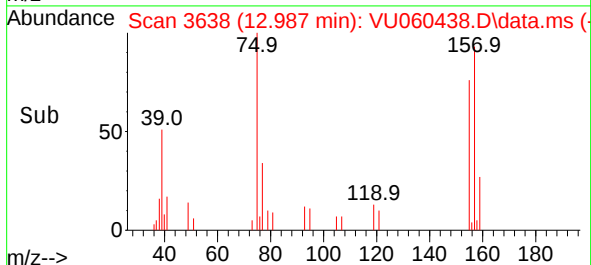
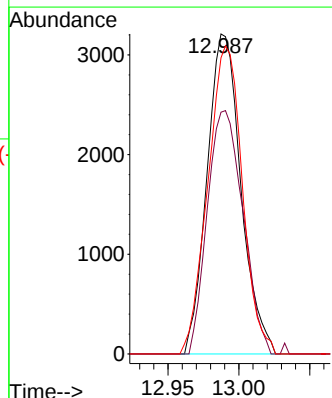
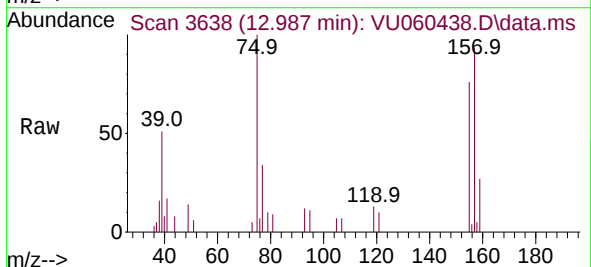
Tgt Ion: 75 Resp: 5331

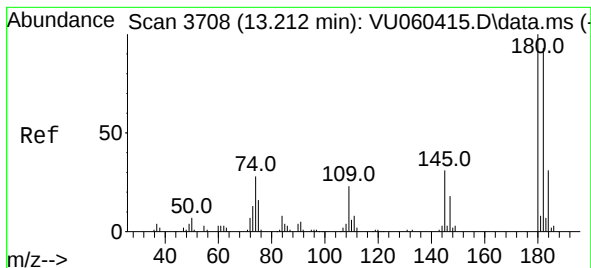
Ion Ratio Lower Upper

75 100

155 75.6 64.3 96.5

157 92.6 88.0 132.0





#69

1,3,5-Trichlorobenzene

Concen: 4.552 ug/L

RT: 13.212 min Scan# 3

Delta R.T. 0.000 min

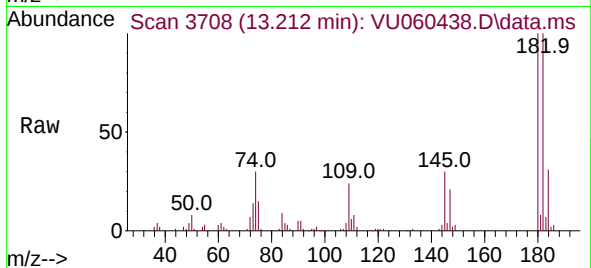
Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 54475

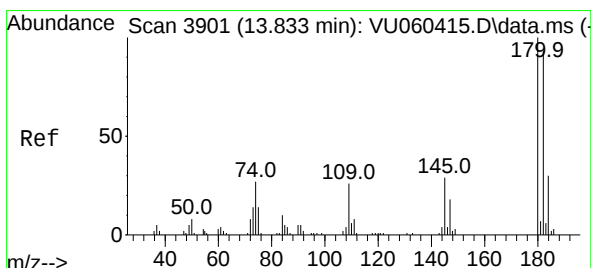
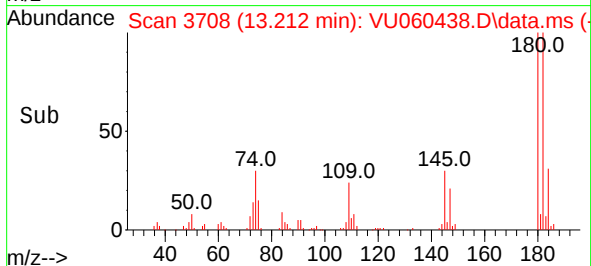
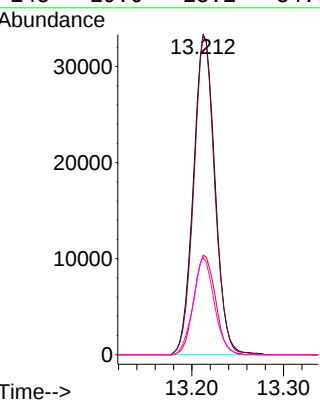
Ion Ratio Lower Upper

180 100

182 96.4 76.0 114.0

184 31.1 23.8 35.8

145 29.6 23.1 34.7



#70

1,2,4-trichlorobenzene

Concen: 4.417 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.000 min

Lab File: VU060438.D

Acq: 13 Aug 2024 20:34

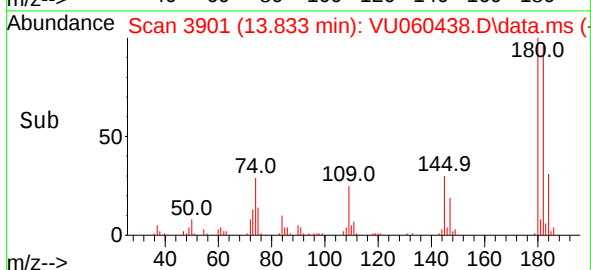
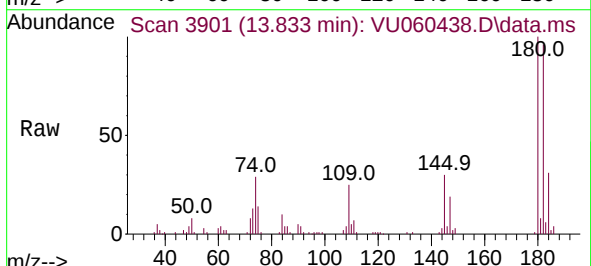
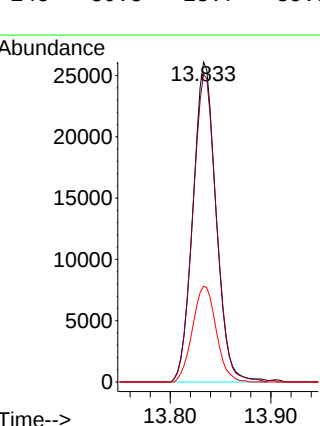
Tgt Ion:180 Resp: 41504

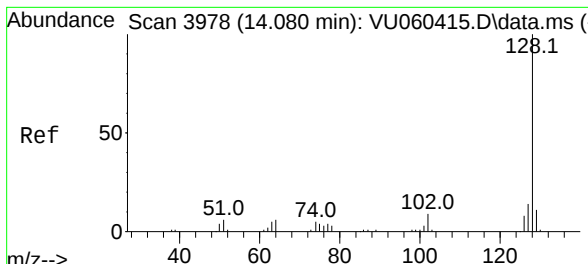
Ion Ratio Lower Upper

180 100

182 98.3 76.0 114.0

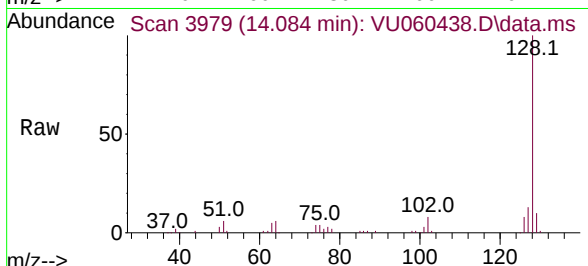
145 30.8 23.7 35.5



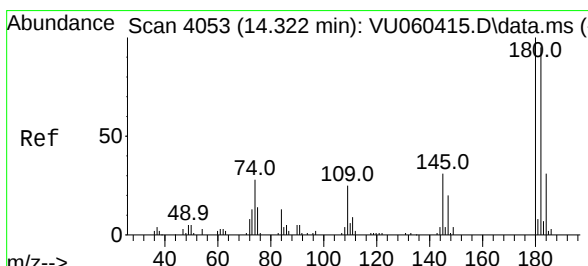
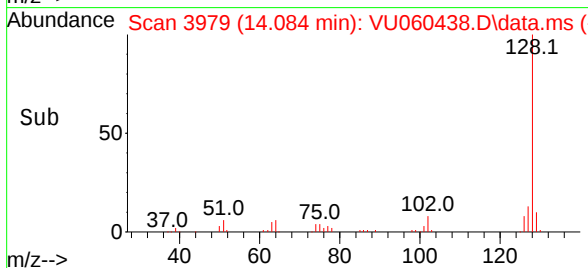
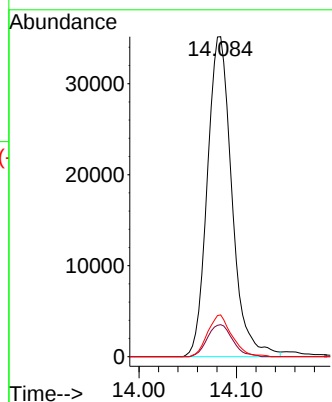


#71  
Naphthalene  
Concen: 4.617 ug/L  
RT: 14.084 min Scan# 3978  
Delta R.T. 0.003 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 61684  
Ion Ratio Lower Upper  
128 100  
129 10.3 8.6 12.8  
127 12.9 10.6 16.0



#72  
1,2,3-Trichlorobenzene  
Concen: 4.542 ug/L  
RT: 14.322 min Scan# 4053  
Delta R.T. 0.000 min  
Lab File: VU060438.D  
Acq: 13 Aug 2024 20:34

Tgt Ion:180 Resp: 38239  
Ion Ratio Lower Upper  
180 100  
182 95.5 75.7 113.5  
145 32.3 23.7 35.5

