

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU010824\  
 Data File : VU057428.D  
 Acq On : 09 Jan 2024 09:59  
 Operator : MD/SY  
 Sample : P1058-03MSD  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 09 11:37:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM010824WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 09 06:09:25 2024  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|-------|----------|
| -----                         |         |       |          |          |       |          |
| Internal Standards            |         |       |          |          |       |          |
| 1) 1,4-Difluorobenzene        | 6.242   | 114   | 260349   | 50.000   | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.412   | 117   | 255925   | 50.000   | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807  | 152   | 124937   | 50.000   | ug/L  | 0.00     |
| System Monitoring Compounds   |         |       |          |          |       |          |
| 4) Vinyl Chloride-d3          | 1.599   | 65    | 75451    | 42.107   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =     | 84.220%  |
| 7) Chloroethane-d5            | 1.914   | 69    | 60283    | 43.473   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =     | 86.940%  |
| 11) 1,1-Dichloroethene-d2     | 2.563   | 63    | 168521   | 44.370   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =     | 88.740%  |
| 21) 2-Butanone-d5             | 4.634   | 46    | 95199    | 109.641  | ug/L  | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =     | 109.640% |
| 24) Chloroform-d              | 5.055   | 84    | 192433   | 45.413   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =     | 90.820%  |
| 26) 1,2-Dichloroethane-d4     | 5.695   | 65    | 131327   | 46.914   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =     | 93.820%  |
| 32) Benzene-d6                | 5.721   | 84    | 333654   | 48.568   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =     | 97.140%  |
| 36) 1,2-Dichloropropane-d6    | 6.685   | 67    | 94513    | 48.744   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =     | 97.480%  |
| 41) Toluene-d8                | 7.891   | 98    | 311286   | 48.353   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =     | 96.700%  |
| 43) trans-1,3-Dichloroprop... | 8.174   | 79    | 55325    | 47.804   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =     | 95.600%  |
| 47) 2-Hexanone-d5             | 8.637   | 63    | 70478    | 111.189  | ug/L  | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =     | 111.190% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753  | 84    | 143662   | 49.580   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =     | 99.160%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187  | 152   | 120340   | 49.247   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =     | 98.500%  |
| Target Compounds              |         |       |          |          |       |          |
|                               |         |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.383   | 85    | 140138   | 47.183   | ug/L  | 99       |
| 3) Chloromethane              | 1.518   | 50    | 91138    | 48.901   | ug/L  | 98       |
| 5) Vinyl chloride             | 1.605   | 62    | 96952    | 48.593   | ug/L  | 96       |
| 6) Bromomethane               | 1.859   | 94    | 63823    | 48.330   | ug/L  | 99       |
| 8) Chloroethane               | 1.933   | 64    | 55696    | 47.724   | ug/L  | 95       |
| 9) Trichlorofluoromethane     | 2.133   | 101   | 199785   | 47.991   | ug/L  | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576   | 101   | 96148    | 48.092   | ug/L  | 96       |
| 12) 1,1-Dichloroethene        | 2.573   | 96    | 88221    | 50.010   | ug/L  | 96       |
| 13) Acetone                   | 2.644   | 43    | 247326   | 233.907  | ug/L  | 98       |
| 14) Carbon disulfide          | 2.789   | 76    | 263785   | 48.277   | ug/L  | 99       |
| 16) Methylene chloride        | 3.043   | 84    | 98052    | 48.886   | ug/L  | 96       |
| 17) trans-1,2-Dichloroethene  | 3.348   | 96    | 90550    | 50.174   | ug/L  | 98       |
| 18) Methyl tert-butyl Ether   | 3.354   | 73    | 314187   | 54.389   | ug/L  | 99       |
| 19) 1,1-Dichloroethane        | 3.859   | 63    | 171131   | 51.220   | ug/L  | 99       |
| 20) cis-1,2-Dichloroethene    | 4.657   | 96    | 101209   | 52.426   | ug/L  | 97       |
| 22) 2-Butanone                | 4.711   | 43    | 124556   | 119.552  | ug/L  | 99       |
| 23) Bromochloromethane        | 4.965   | 128   | 54989    | 49.621   | ug/L  | 98       |
| 25) Chloroform                | 5.081   | 83    | 202310   | 49.894   | ug/L  | 99       |
| 27) 1,2-Dichloroethane        | 5.785   | 62    | 168978   | 49.473   | ug/L  | 98       |

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 Sample : P1058-03MSD  
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 ALS Vial : 56 Sample Multiplier: 1

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 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 09 11:37:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM010824WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 09 06:09:25 2024  
 Response via : Initial Calibration

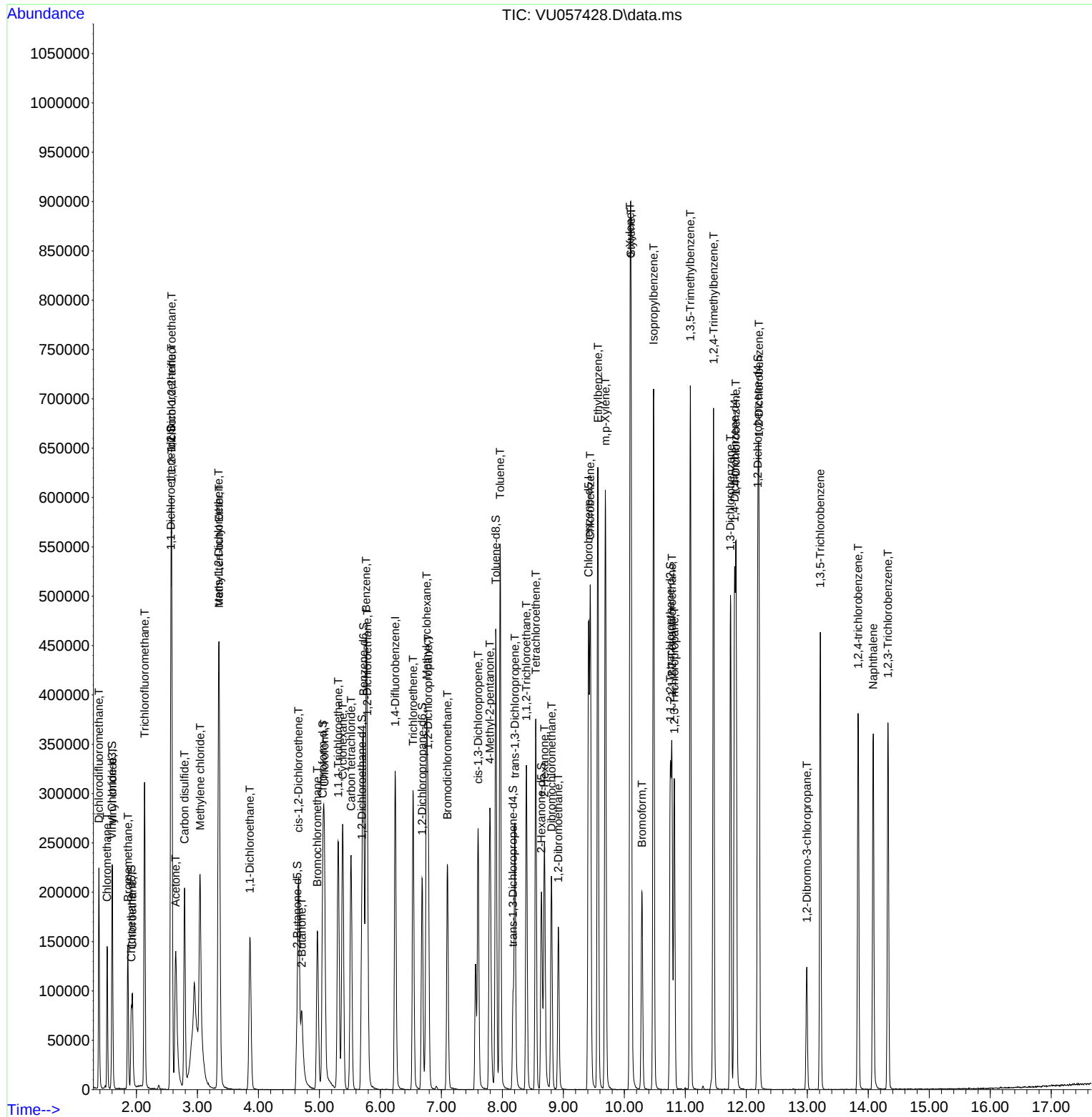
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 29) Cyclohexane               | 5.380  | 56   | 128585   | 53.106  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.309  | 97   | 198749   | 50.475  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.518  | 117  | 173368   | 49.642  | ug/L  | 99       |
| 33) Benzene                   | 5.766  | 78   | 375142   | 52.159  | ug/L  | 100      |
| 34) Trichloroethene           | 6.534  | 95   | 105241   | 50.119  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.756  | 83   | 145610   | 50.969  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.782  | 63   | 87726    | 49.428  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.097  | 83   | 152081   | 50.583  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 160431   | 51.621  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.795  | 43   | 211849   | 117.148 | ug/L  | 98       |
| 42) Toluene                   | 7.962  | 91   | 410114   | 53.029  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.203  | 75   | 161113   | 51.637  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 103915   | 53.212  | ug/L  | 97       |
| 46) Tetrachloroethene         | 8.547  | 164  | 78024    | 49.121  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.689  | 43   | 161455   | 110.973 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.804  | 129  | 118573   | 49.823  | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 109837   | 53.024  | ug/L  | 98       |
| 51) Chlorobenzene             | 9.441  | 112  | 263782   | 50.761  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.566  | 91   | 455795   | 52.925  | ug/L  | 97       |
| 53) m,p-Xylene                | 9.689  | 106  | 166632   | 51.760  | ug/L  | 95       |
| 54) o-Xylene                  | 10.094 | 106  | 168297   | 53.531  | ug/L  | 100      |
| 55) Styrene                   | 10.110 | 104  | 284909   | 53.515  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.779 | 83   | 155126   | 52.681  | ug/L  | 96       |
| 59) Bromoform                 | 10.287 | 173  | 96052    | 53.022  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.817 | 75   | 130476   | 55.135  | ug/L  | 100      |
| 61) Isopropylbenzene          | 10.480 | 105  | 453174   | 55.387  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 393386   | 56.219  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 386463   | 56.262  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 202052   | 52.400  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 202598   | 51.185  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 204523   | 52.623  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 34800    | 55.072  | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 13.213 | 180  | 140638   | 50.952  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.833 | 180  | 113628   | 54.071  | ug/L  | 97       |
| 71) Naphthalene               | 14.081 | 128  | 289650   | 58.989  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 109555   | 55.127  | ug/L  | 99       |

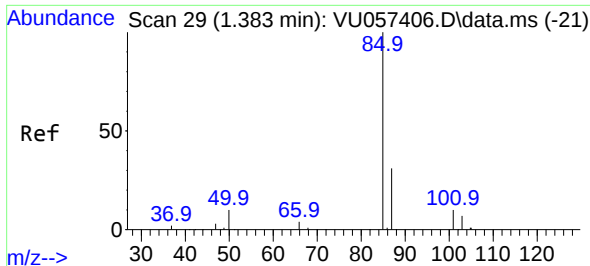
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QLast Update : Tue Jan 09 06:09:25 2024  
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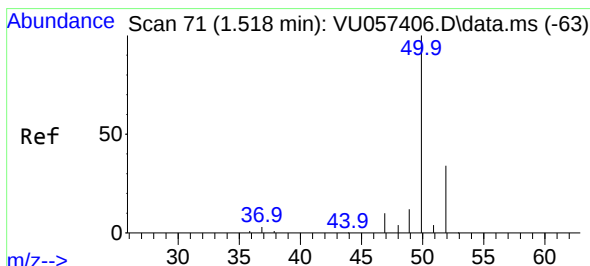
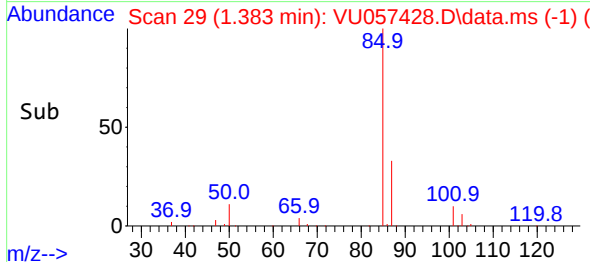
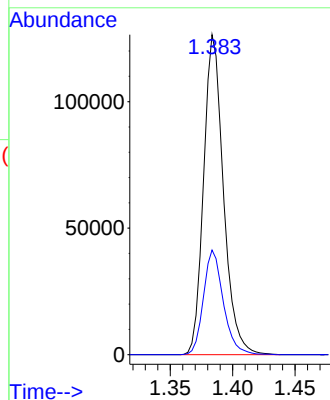
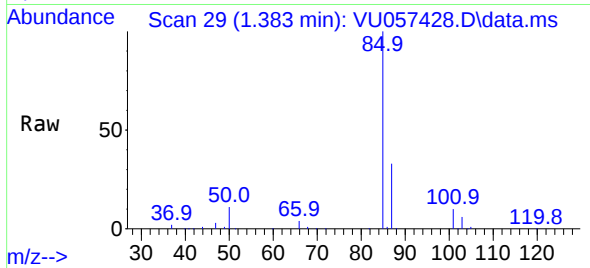




#2  
Dichlorodifluoromethane  
Concen: 47.183 ug/L  
RT: 1.383 min Scan# 29  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

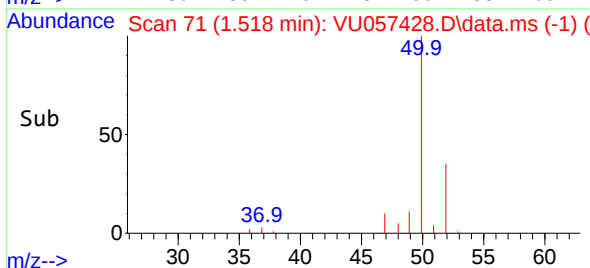
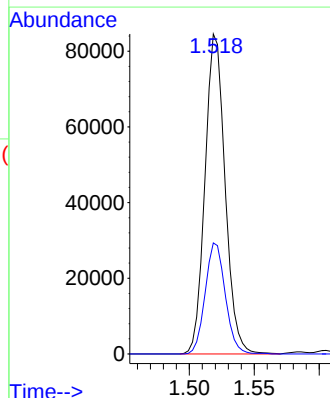
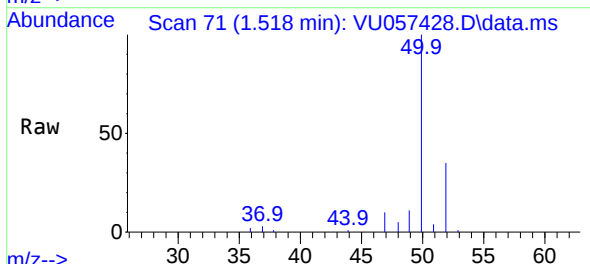
Instrument :  
MSVOA\_U  
ClientSampleId :

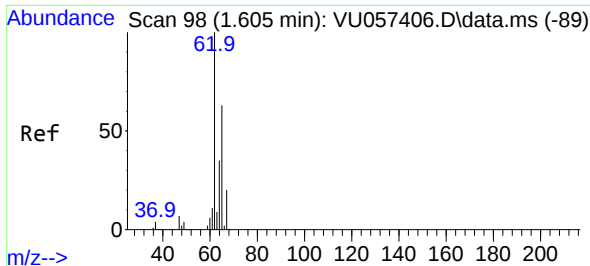
Tgt Ion: 85 Resp: 140138  
Ion Ratio Lower Upper  
85 100  
87 32.7 25.8 38.6



#3  
Chloromethane  
Concen: 48.901 ug/L  
RT: 1.518 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion: 50 Resp: 91138  
Ion Ratio Lower Upper  
50 100  
52 34.7 23.7 43.9

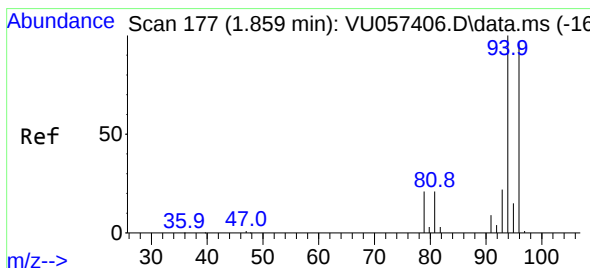
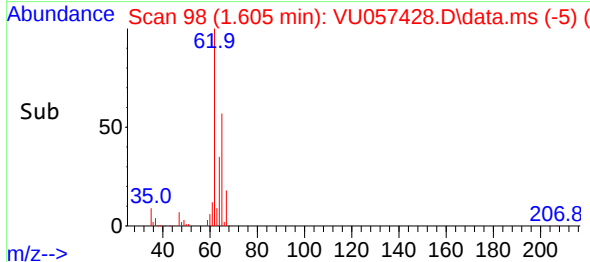
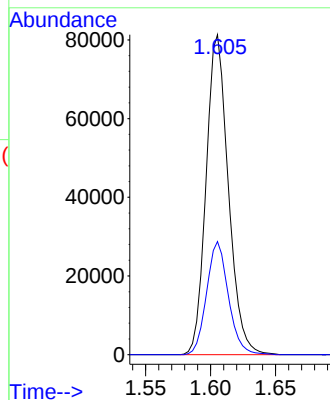
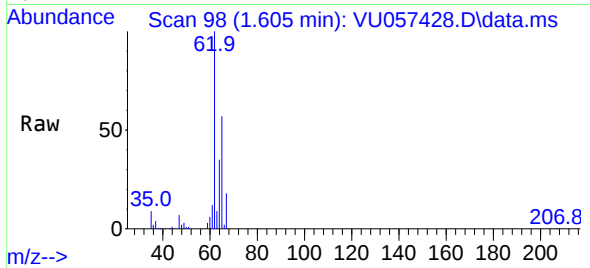




#5  
Vinyl chloride  
Concen: 48.593 ug/L  
RT: 1.605 min Scan# 98  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

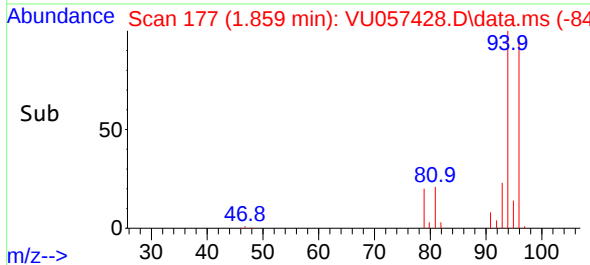
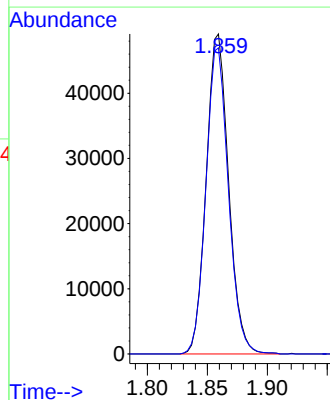
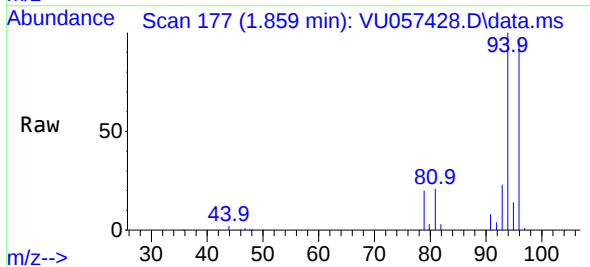
Instrument :  
MSVOA\_U  
ClientSampleId :

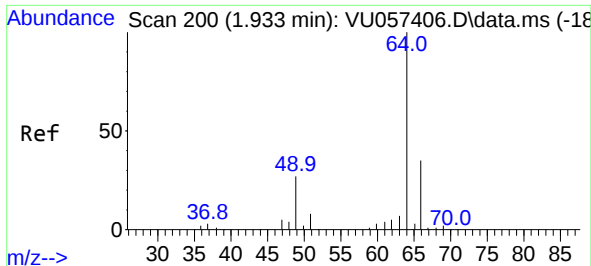
Tgt Ion: 62 Resp: 96952  
Ion Ratio Lower Upper  
62 100  
64 35.3 23.3 43.3



#6  
Bromomethane  
Concen: 48.330 ug/L  
RT: 1.859 min Scan# 177  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion: 94 Resp: 63823  
Ion Ratio Lower Upper  
94 100  
96 95.6 65.9 122.5

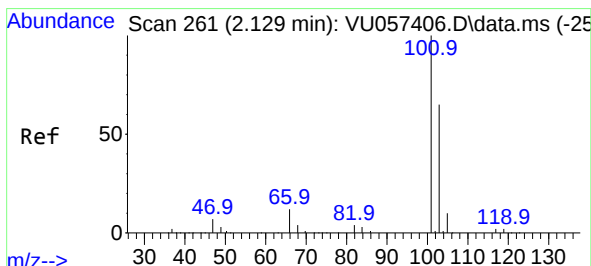
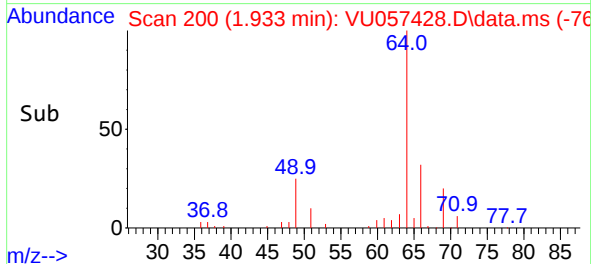
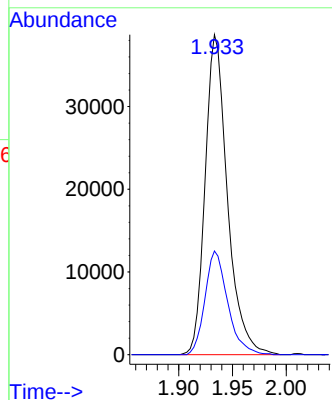
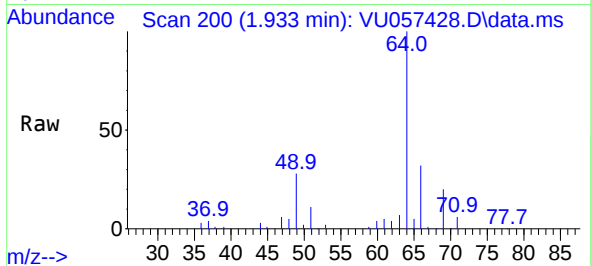




#8  
Chloroethane  
Concen: 47.724 ug/L  
RT: 1.933 min Scan# 200  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

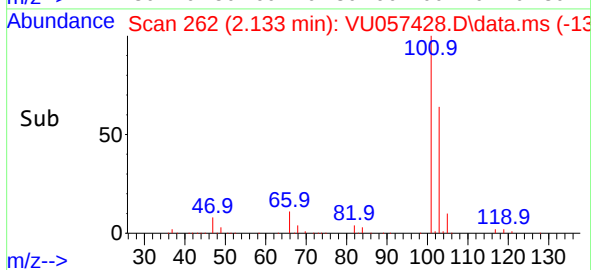
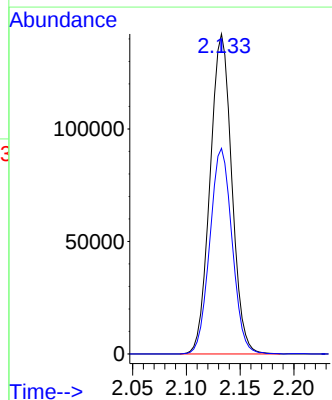
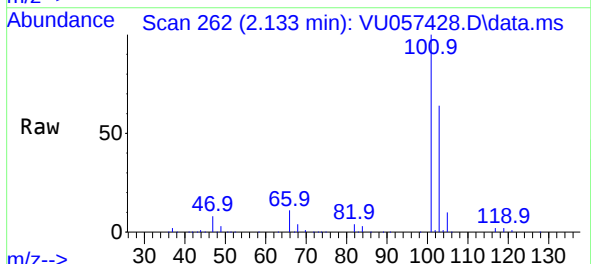
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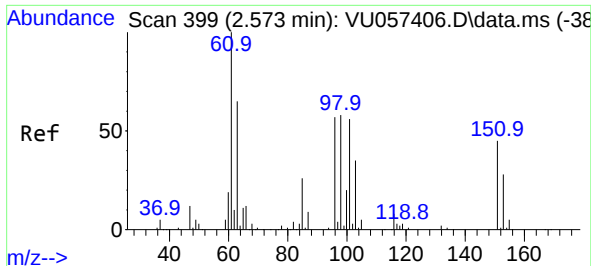
Tgt Ion: 64 Resp: 55696  
Ion Ratio Lower Upper  
64 100  
66 32.4 20.9 38.9



#9  
Trichlorofluoromethane  
Concen: 47.991 ug/L  
RT: 2.133 min Scan# 262  
Delta R.T. 0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion:101 Resp: 199785  
Ion Ratio Lower Upper  
101 100  
103 65.8 53.4 80.0

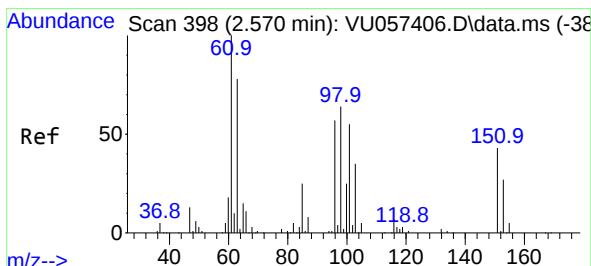
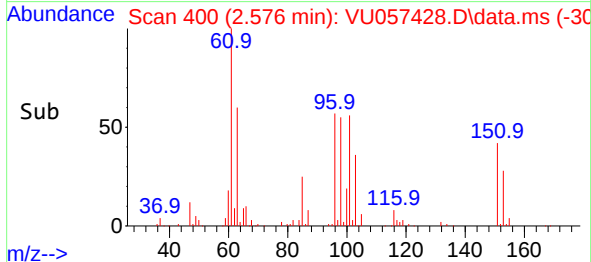
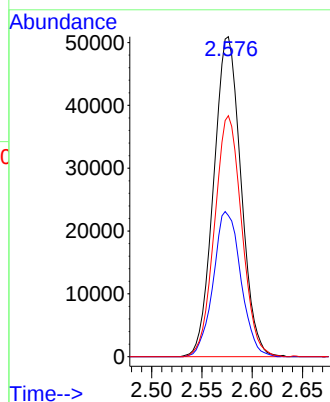
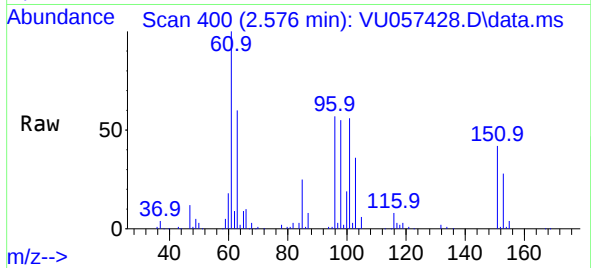




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 48.092 ug/L  
RT: 2.576 min Scan# 400  
Delta R.T. 0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

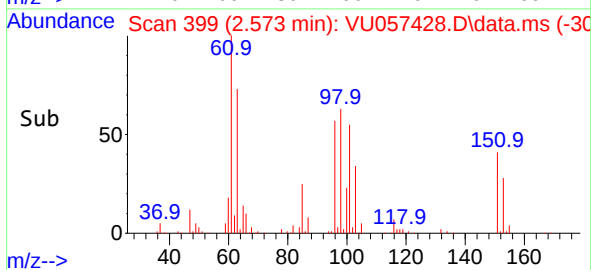
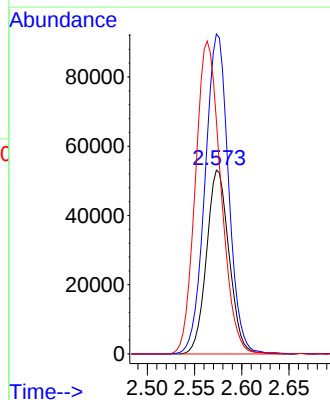
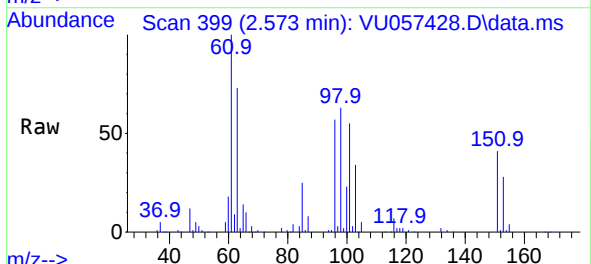
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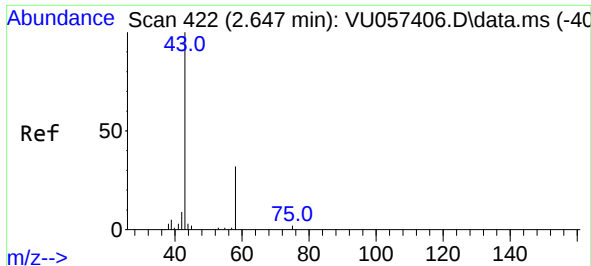
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Ion Ratio Lower Upper  
101 100  
85 45.8 37.0 55.4  
151 75.0 63.7 95.5



#12  
1,1-Dichloroethene  
Concen: 50.010 ug/L  
RT: 2.573 min Scan# 399  
Delta R.T. 0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion: 96 Resp: 88221  
Ion Ratio Lower Upper  
96 100  
61 174.0 128.3 238.3  
63 127.2 90.4 168.0

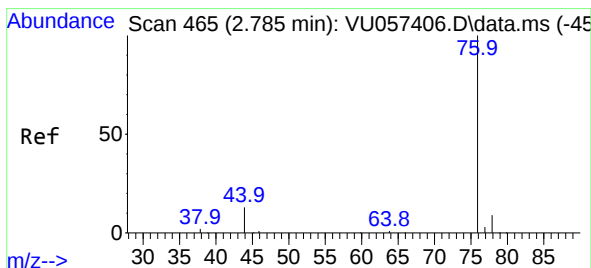
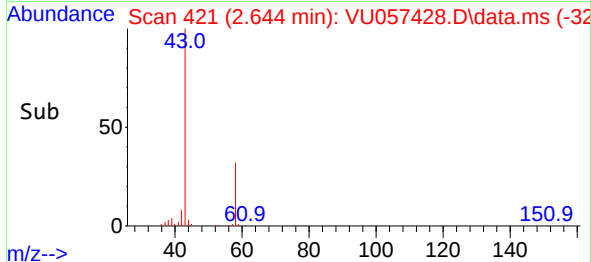
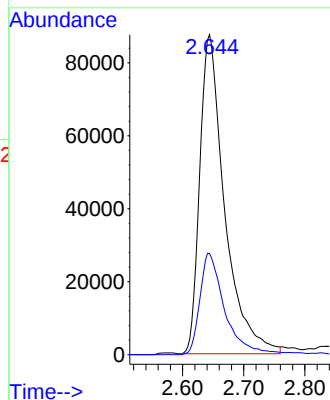
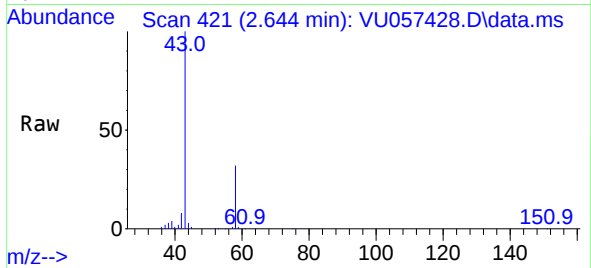




#13  
Acetone  
Concen: 233.907 ug/L  
RT: 2.644 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

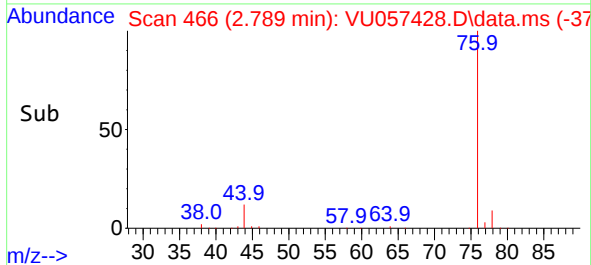
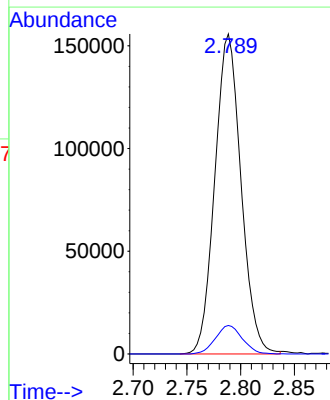
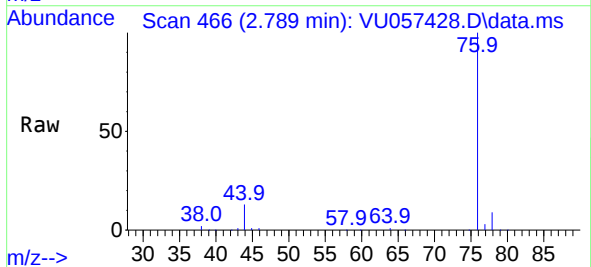
Instrument :  
MSVOA\_U  
ClientSampleId :

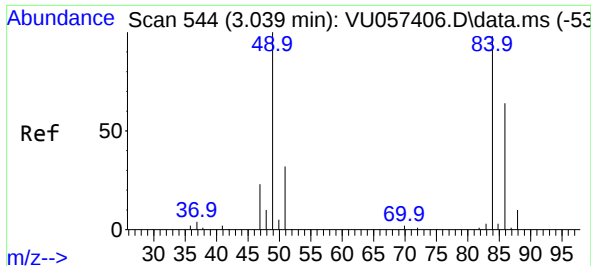
Tgt Ion: 43 Resp: 247326  
Ion Ratio Lower Upper  
43 100  
58 31.6 0.0 65.2



#14  
Carbon disulfide  
Concen: 48.277 ug/L  
RT: 2.789 min Scan# 466  
Delta R.T. 0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

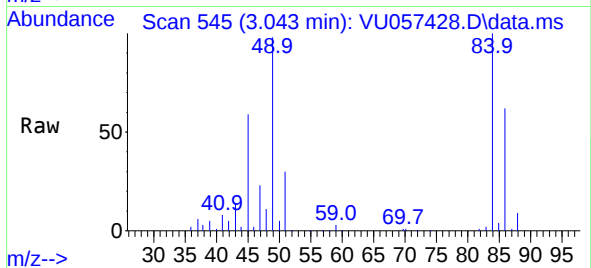
Tgt Ion: 76 Resp: 263785  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.5 11.3



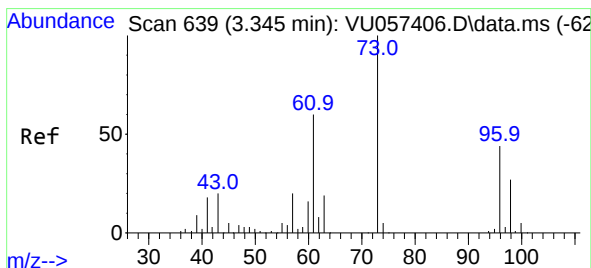
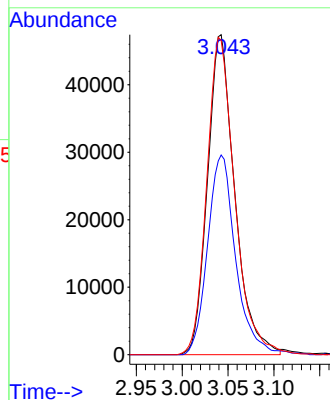


#16  
Methylene chloride  
Concen: 48.886 ug/L  
RT: 3.043 min Scan# 54  
Delta R.T. 0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

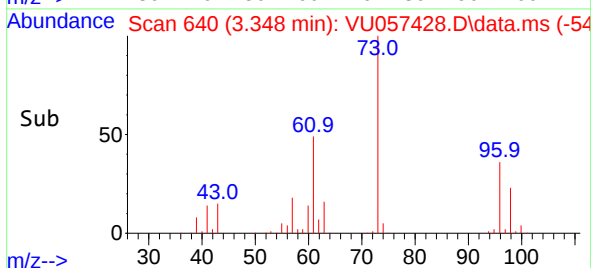
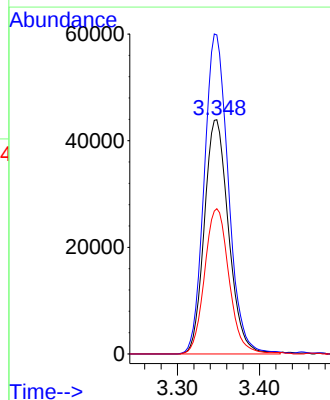
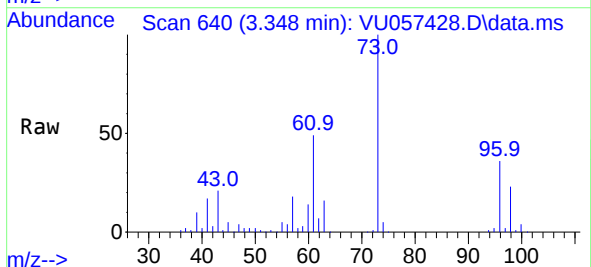


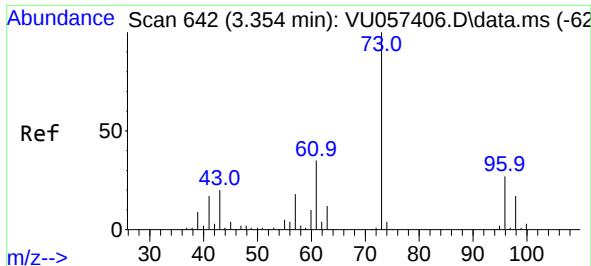
Tgt Ion: 84 Resp: 98052  
Ion Ratio Lower Upper  
84 100  
86 62.4 44.3 82.3  
49 98.2 72.2 134.2



#17  
trans-1,2-Dichloroethene  
Concen: 50.174 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

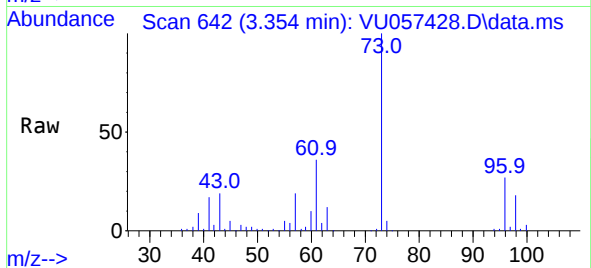
Tgt Ion: 96 Resp: 90550  
Ion Ratio Lower Upper  
96 100  
61 136.2 93.9 174.5  
98 62.0 44.8 83.2



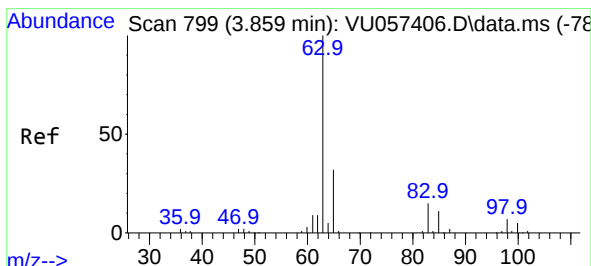
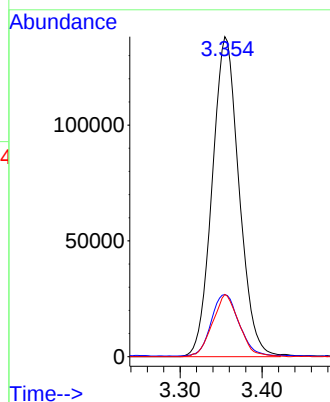
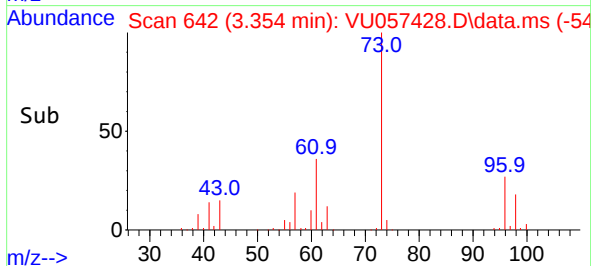


#18  
Methyl tert-butyl Ether  
Concen: 54.389 ug/L  
RT: 3.354 min Scan# 642  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

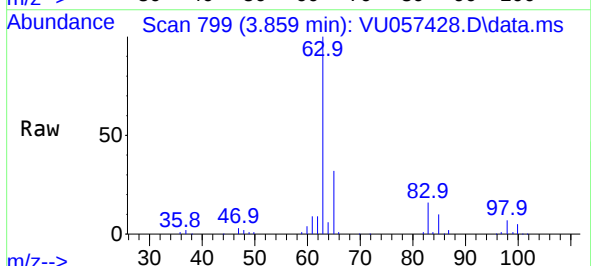
Instrument :  
MSVOA\_U  
ClientSampleId :



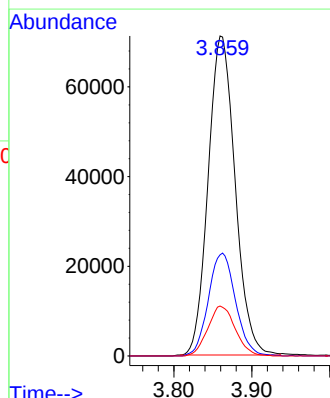
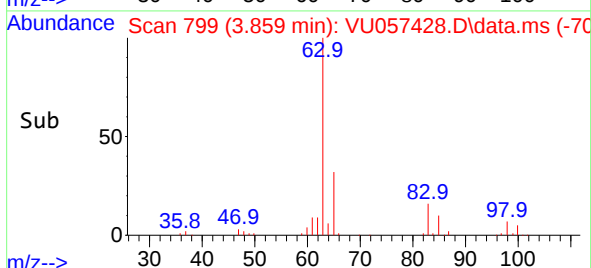
Tgt Ion: 73 Resp: 314187  
Ion Ratio Lower Upper  
73 100  
43 20.1 16.3 24.5  
57 19.2 15.0 22.6

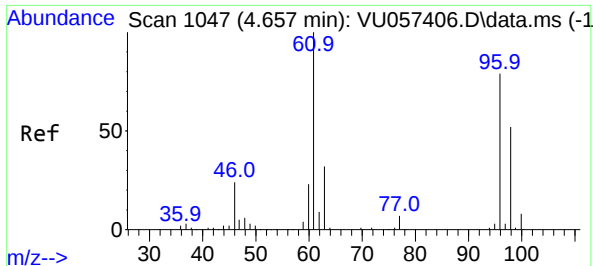


#19  
1,1-Dichloroethane  
Concen: 51.220 ug/L  
RT: 3.859 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59



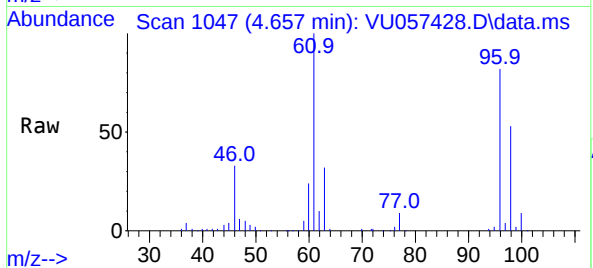
Tgt Ion: 63 Resp: 171131  
Ion Ratio Lower Upper  
63 100  
65 31.6 22.4 41.6  
83 15.6 11.3 21.1



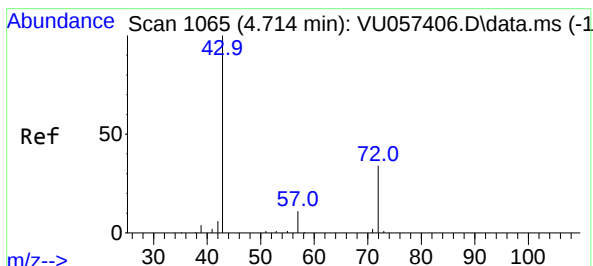
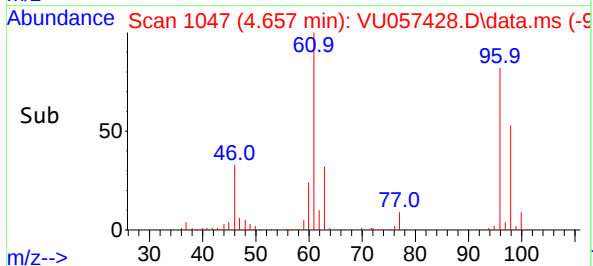
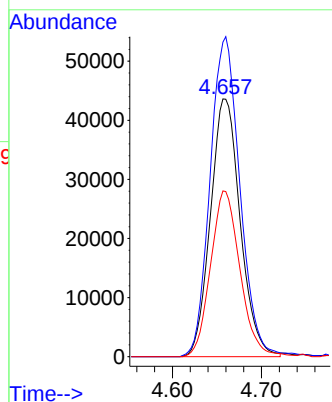


#20  
cis-1,2-Dichloroethene  
Concen: 52.426 ug/L  
RT: 4.657 min Scan# 1047  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

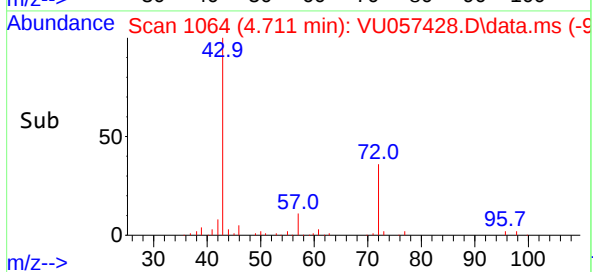
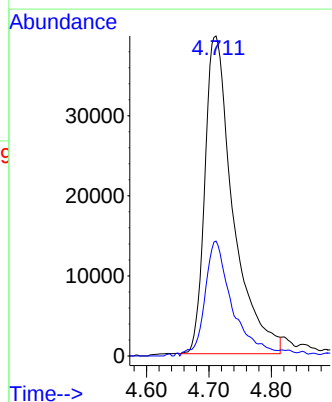
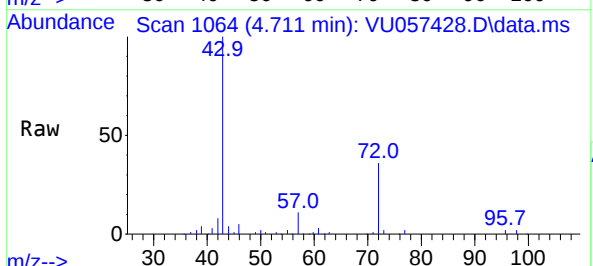


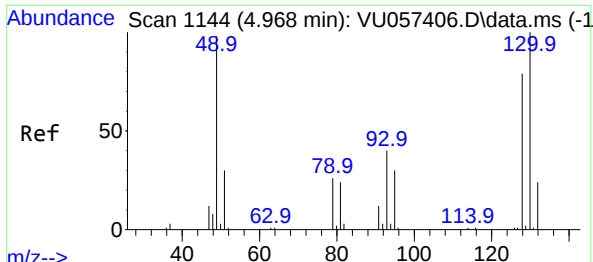
Tgt Ion: 96 Resp: 101209  
Ion Ratio Lower Upper  
96 100  
61 122.0 88.0 163.4  
98 64.3 43.4 80.6



#22  
2-Butanone  
Concen: 119.552 ug/L  
RT: 4.711 min Scan# 1064  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

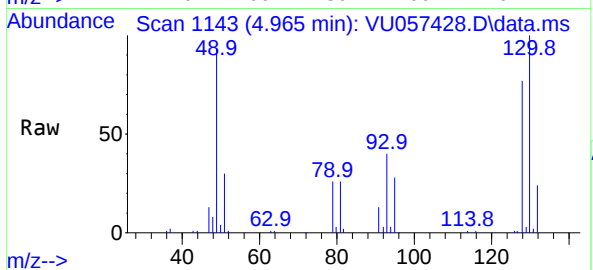
Tgt Ion: 43 Resp: 124556  
Ion Ratio Lower Upper  
43 100  
72 29.9 15.2 45.6



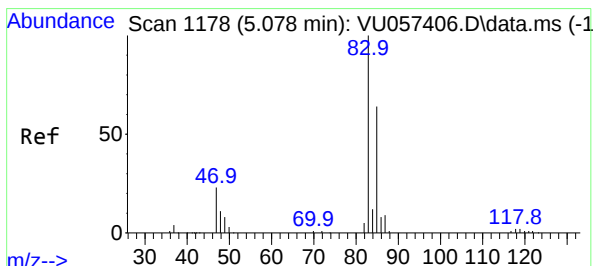
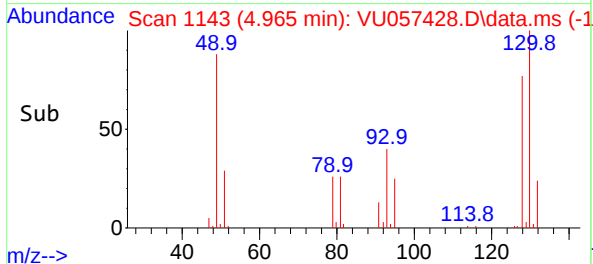
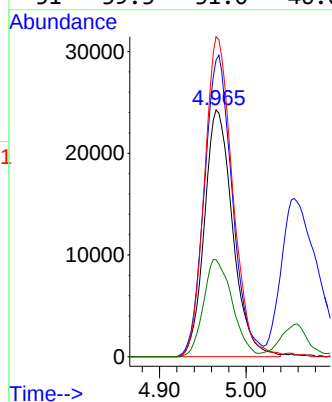


#23  
Bromochloromethane  
Concen: 49.621 ug/L  
RT: 4.965 min Scan# 1143  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

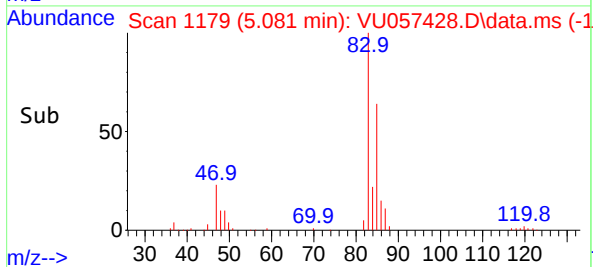
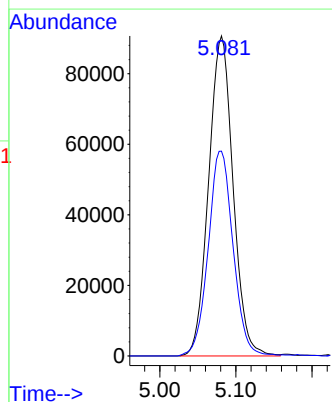
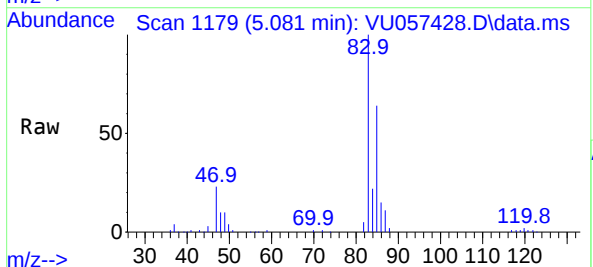


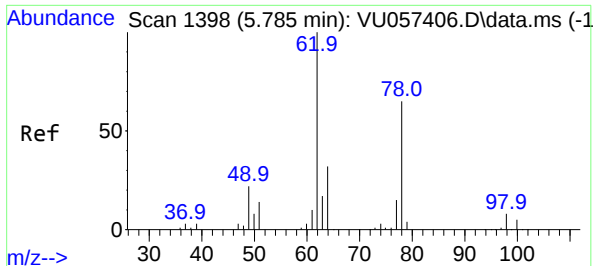
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 54989 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 120.2 | 83.4  | 154.8 |
| 130      | 129.7 | 87.6  | 162.6 |
| 51       | 39.3  | 31.0  | 46.6  |



#25  
Chloroform  
Concen: 49.894 ug/L  
RT: 5.081 min Scan# 1179  
Delta R.T. 0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 202310 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.0  | 45.5  | 84.5   |

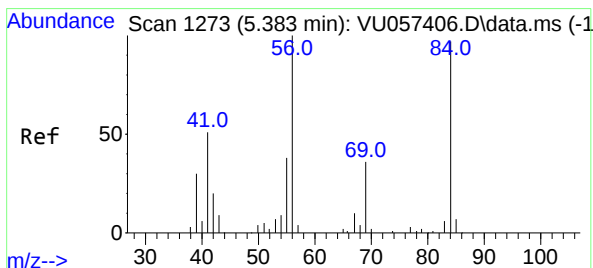
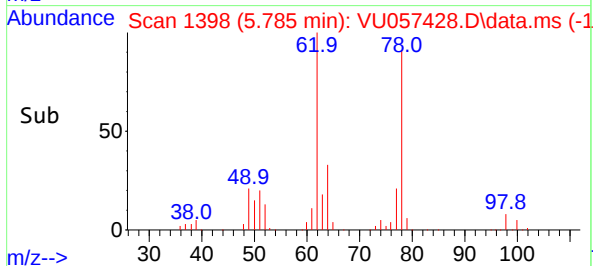
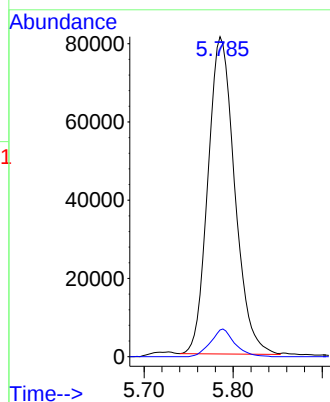
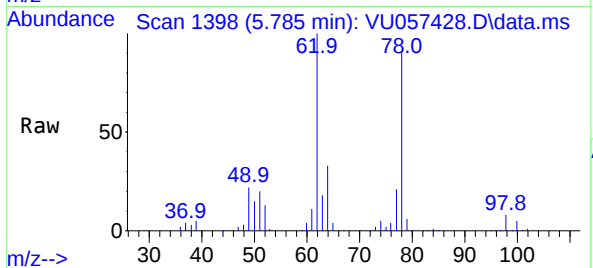




#27  
1,2-Dichloroethane  
Concen: 49.473 ug/L  
RT: 5.785 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

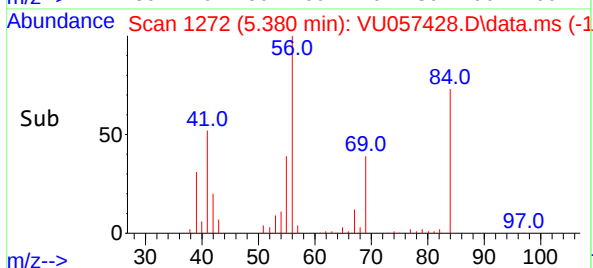
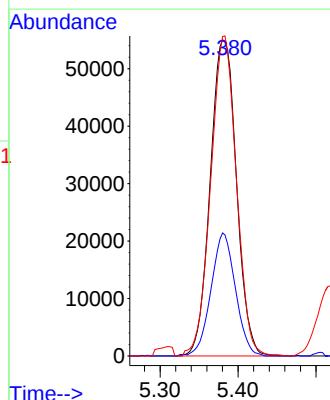
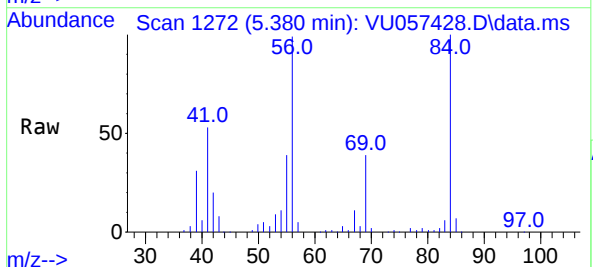
Instrument :  
MSVOA\_U  
ClientSampleId :

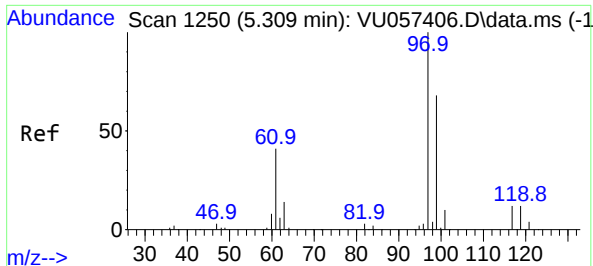
Tgt Ion: 62 Resp: 168978  
Ion Ratio Lower Upper  
62 100  
98 8.3 6.1 9.1



#29  
Cyclohexane  
Concen: 53.106 ug/L  
RT: 5.380 min Scan# 1272  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion: 56 Resp: 128585  
Ion Ratio Lower Upper  
56 100  
69 36.2 27.8 41.8  
84 98.9 79.3 118.9

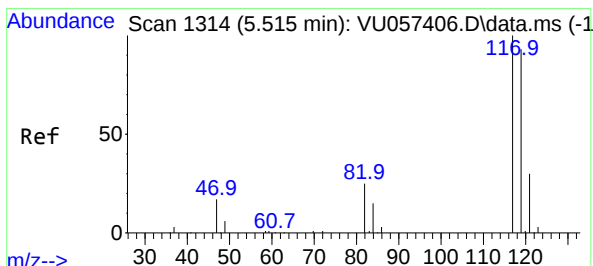
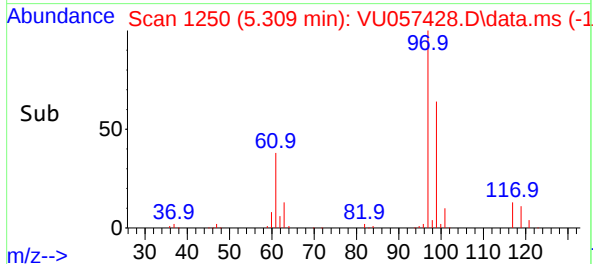
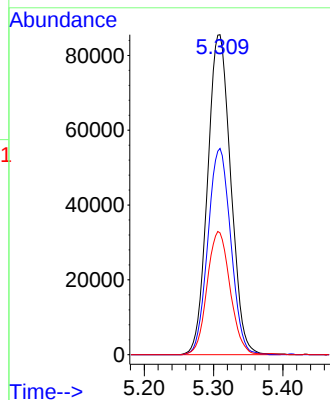
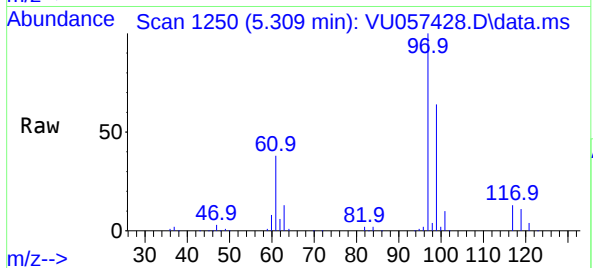




#30  
1,1,1-Trichloroethane  
Concen: 50.475 ug/L  
RT: 5.309 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

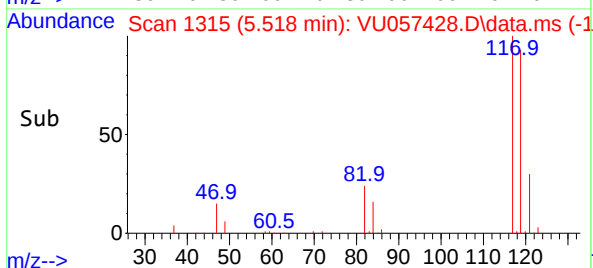
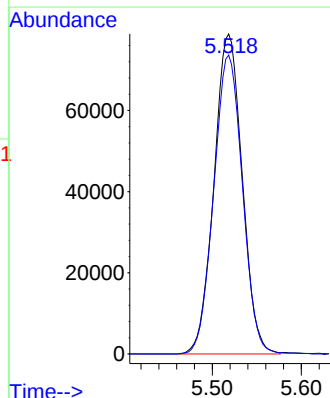
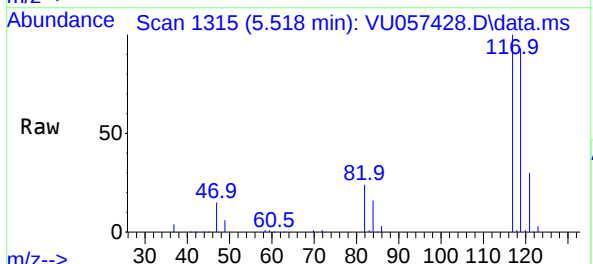
Instrument :  
MSVOA\_U  
ClientSampleId :

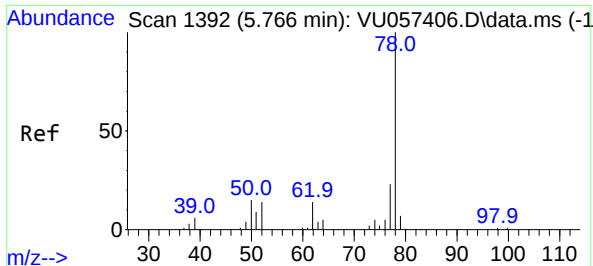
Tgt Ion: 97 Resp: 198749  
Ion Ratio Lower Upper  
97 100  
99 63.7 52.1 78.1  
61 38.2 31.9 47.9



#31  
Carbon tetrachloride  
Concen: 49.642 ug/L  
RT: 5.518 min Scan# 1315  
Delta R.T. 0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion:117 Resp: 173368  
Ion Ratio Lower Upper  
117 100  
119 94.8 76.5 114.7

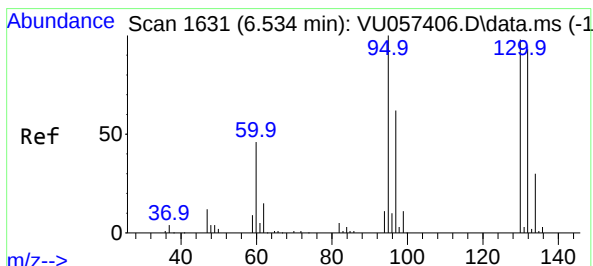
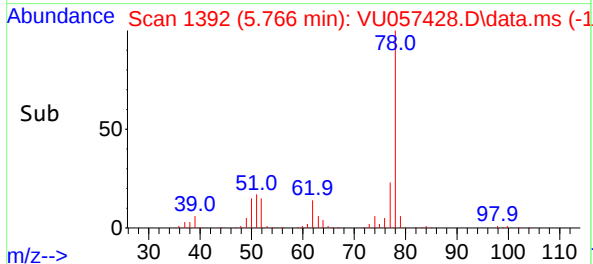
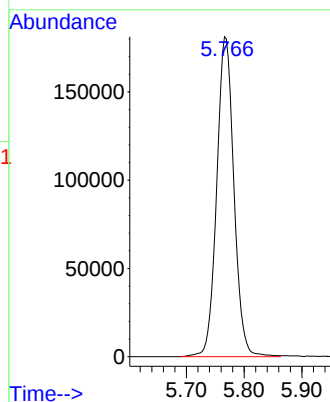
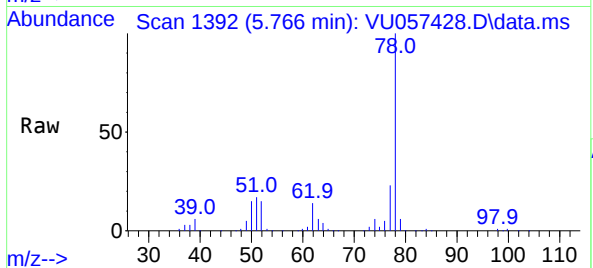




#33  
Benzene  
Concen: 52.159 ug/L  
RT: 5.766 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

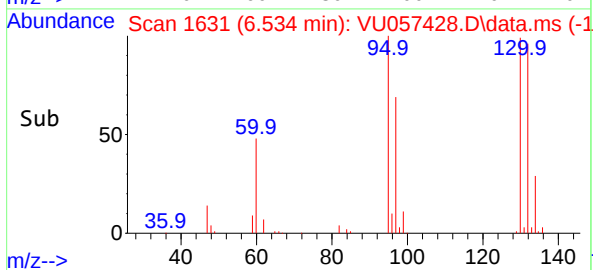
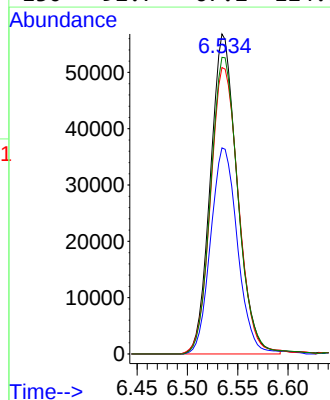
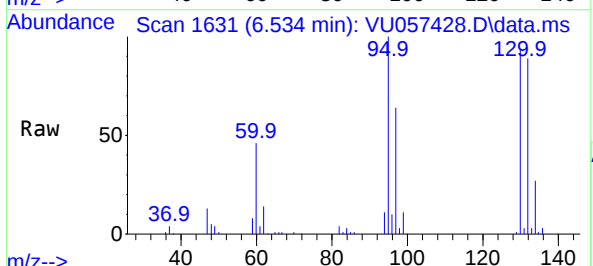
Tgt Ion: 78 Resp: 375142

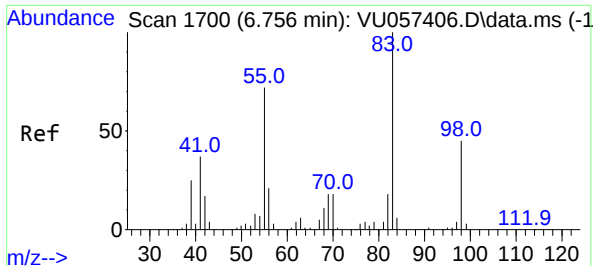


#34  
Trichloroethene  
Concen: 50.119 ug/L  
RT: 6.534 min Scan# 1631  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion: 95 Resp: 105241

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.4  | 46.2  | 85.8  |
| 132 | 89.5  | 64.3  | 119.5 |
| 130 | 92.7  | 67.2  | 124.8 |

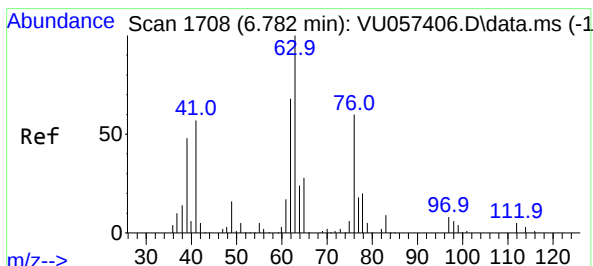
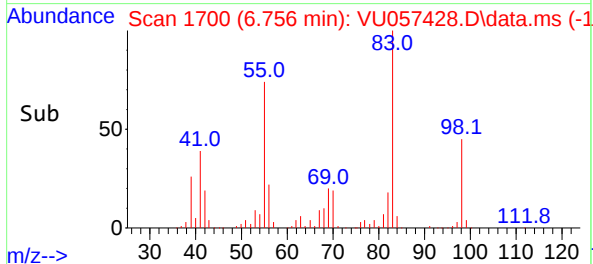
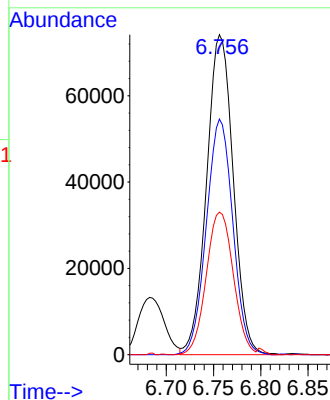
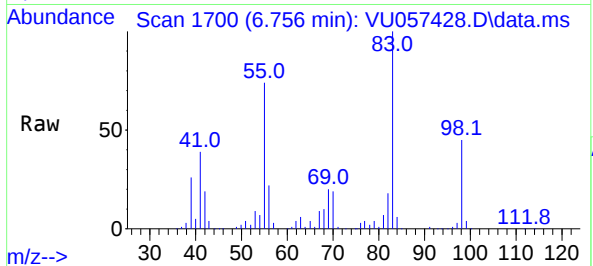




#35  
Methylcyclohexane  
Concen: 50.969 ug/L  
RT: 6.756 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

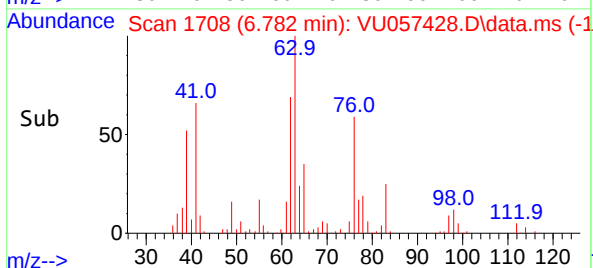
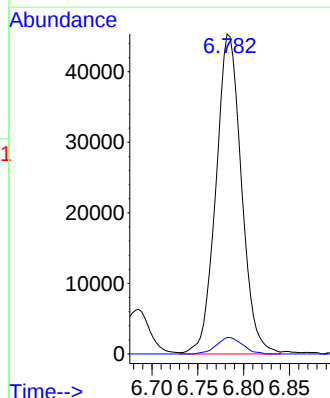
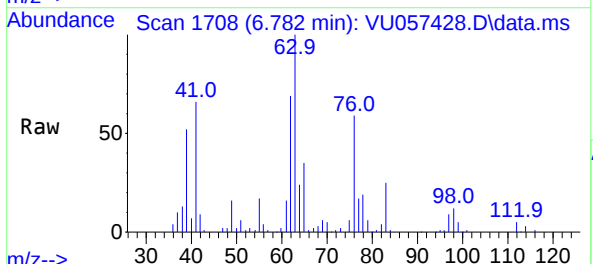
Instrument :  
MSVOA\_U  
ClientSampleId :

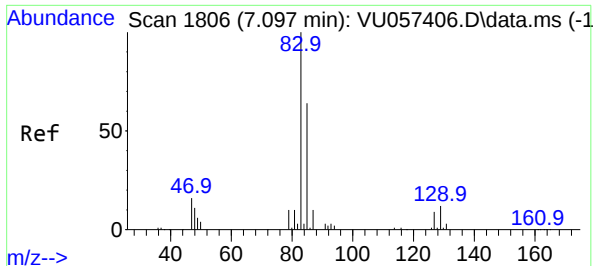
Tgt Ion: 83 Resp: 145610  
Ion Ratio Lower Upper  
83 100  
55 73.2 58.0 87.0  
98 45.2 36.6 55.0



#37  
1,2-Dichloropropane  
Concen: 49.428 ug/L  
RT: 6.782 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

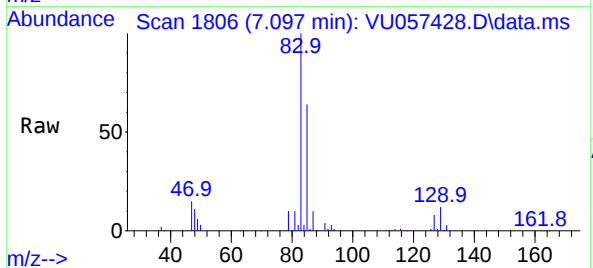
Tgt Ion: 63 Resp: 87726  
Ion Ratio Lower Upper  
63 100  
112 5.3 3.8 5.8



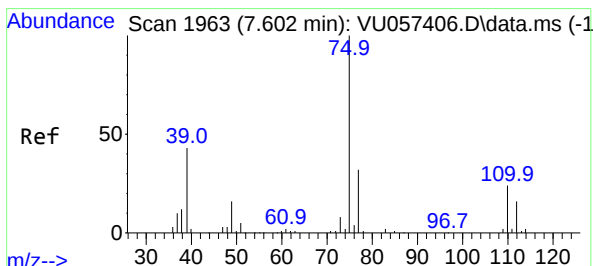
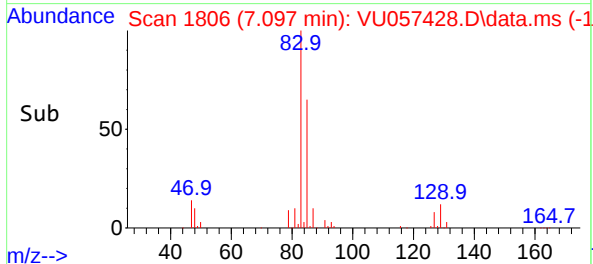
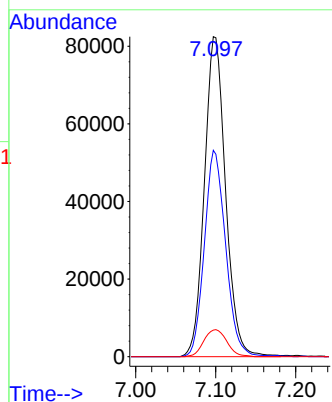


#38  
Bromodichloromethane  
Concen: 50.583 ug/L  
RT: 7.097 min Scan# 1806  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

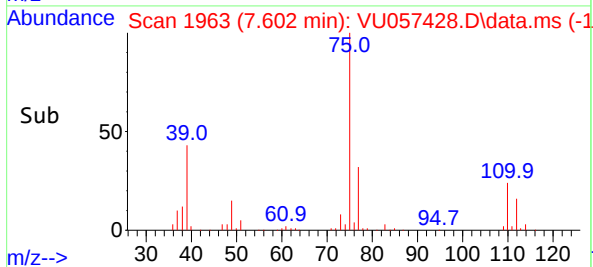
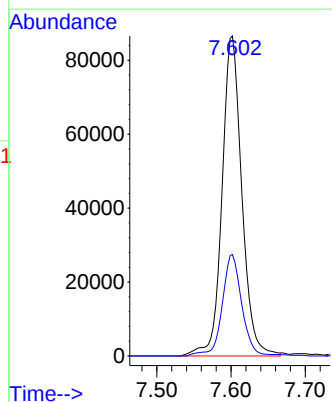
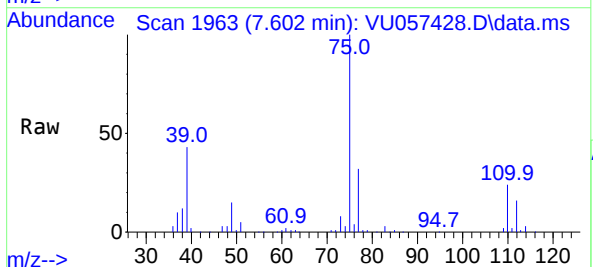


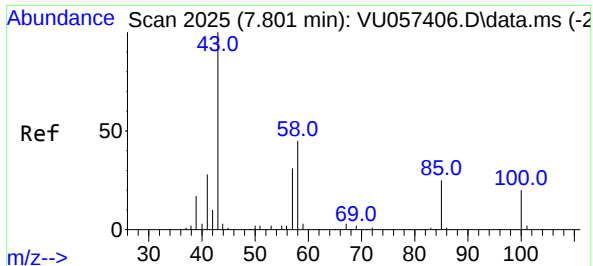
Tgt Ion: 83 Resp: 152081  
Ion Ratio Lower Upper  
83 100  
85 64.5 44.7 83.1  
127 8.3 7.7 11.5



#39  
cis-1,3-Dichloropropene  
Concen: 51.621 ug/L  
RT: 7.602 min Scan# 1963  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion: 75 Resp: 160431  
Ion Ratio Lower Upper  
75 100  
77 31.7 22.2 41.2





#40

4-Methyl-2-pentanone

Concen: 117.148 ug/L

RT: 7.795 min Scan# 2023

Delta R.T. -0.006 min

Lab File: VU057428.D

Acq: 09 Jan 2024 09:59

Instrument :

MSVOA\_U

ClientSampleId :

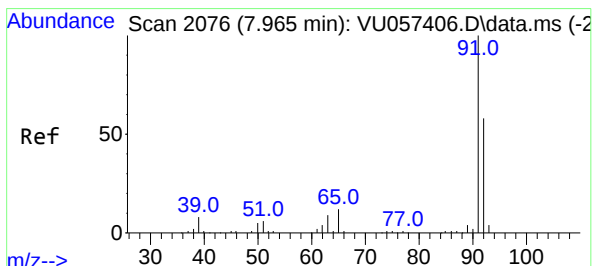
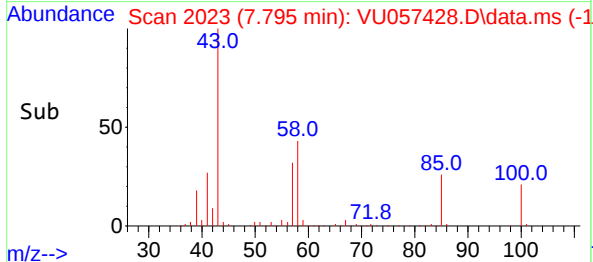
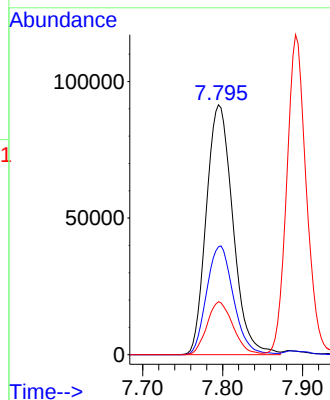
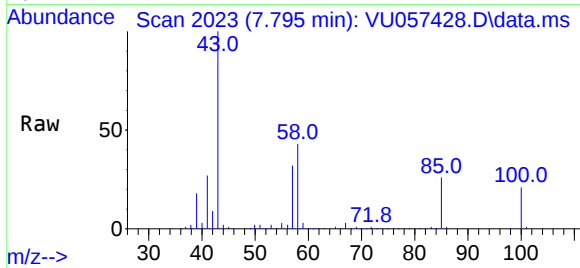
Tgt Ion: 43 Resp: 211849

Ion Ratio Lower Upper

43 100

58 43.8 36.2 54.4

100 20.7 16.6 24.8



#42

Toluene

Concen: 53.029 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.003 min

Lab File: VU057428.D

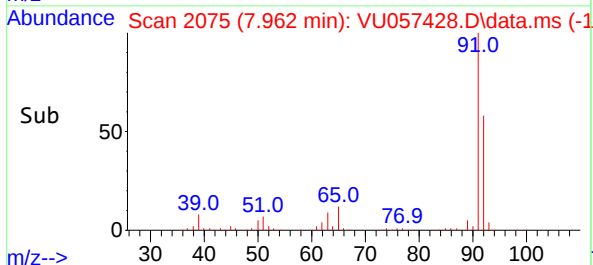
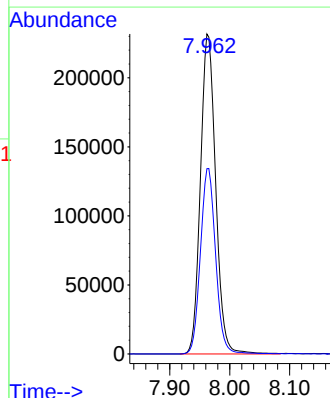
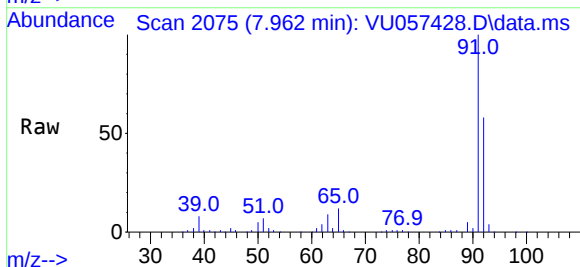
Acq: 09 Jan 2024 09:59

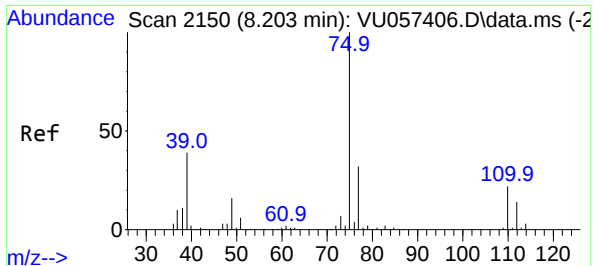
Tgt Ion: 91 Resp: 410114

Ion Ratio Lower Upper

91 100

92 57.9 40.3 74.9

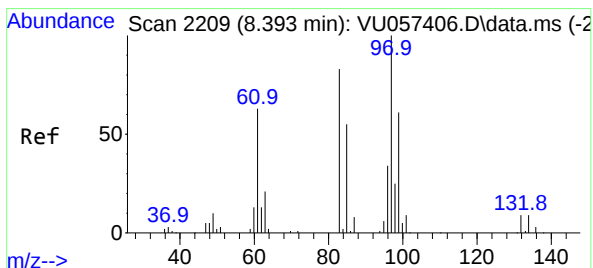
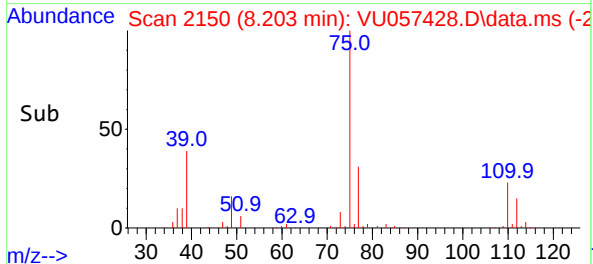
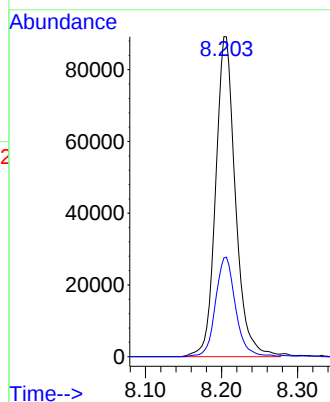
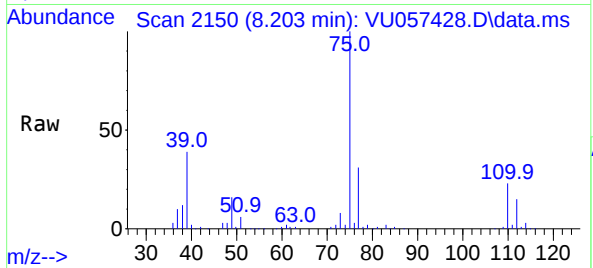




#44  
trans-1,3-Dichloropropene  
Concen: 51.637 ug/L  
RT: 8.203 min Scan# 2150  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

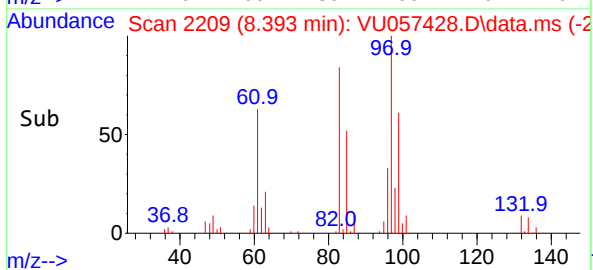
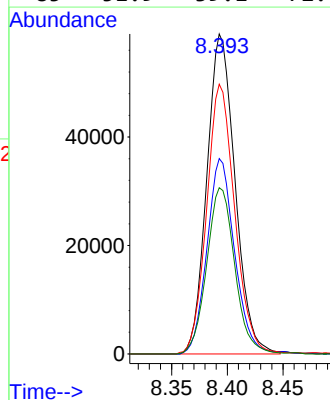
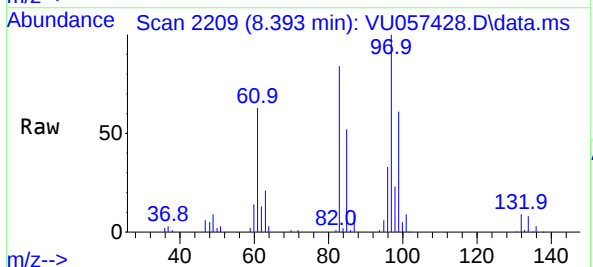
Instrument :  
MSVOA\_U  
ClientSampleId :

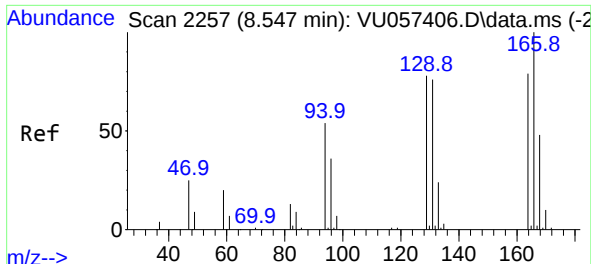
Tgt Ion: 75 Resp: 161113  
Ion Ratio Lower Upper  
75 100  
77 30.9 21.3 39.5



#45  
1,1,2-Trichloroethane  
Concen: 53.212 ug/L  
RT: 8.393 min Scan# 2209  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

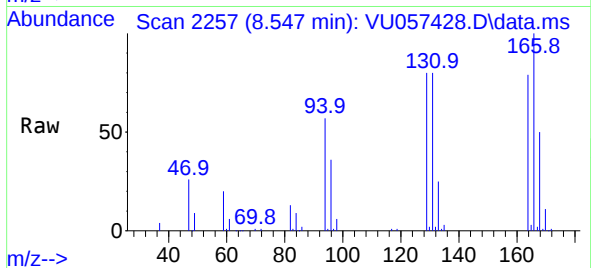
Tgt Ion: 97 Resp: 103915  
Ion Ratio Lower Upper  
97 100  
99 61.0 43.3 80.5  
83 84.3 56.9 105.7  
85 51.9 39.1 72.7



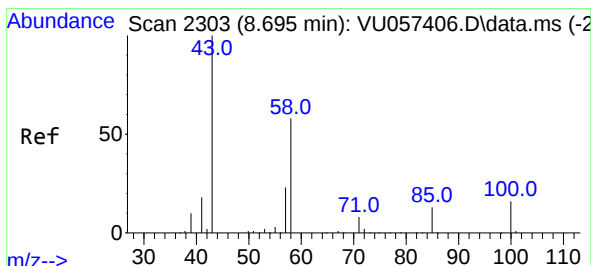
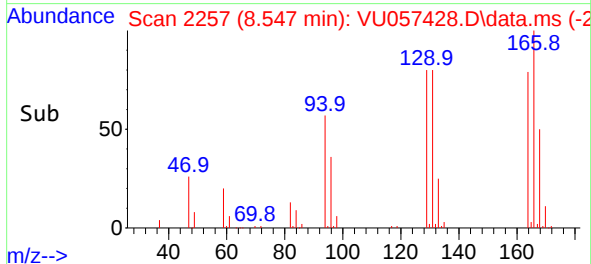
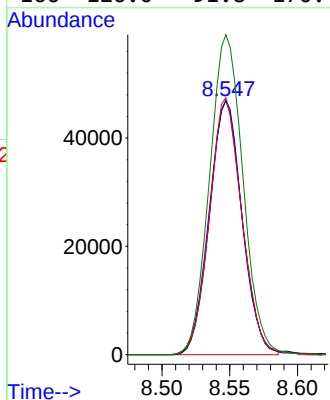


#46  
Tetrachloroethene  
Concen: 49.121 ug/L  
RT: 8.547 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

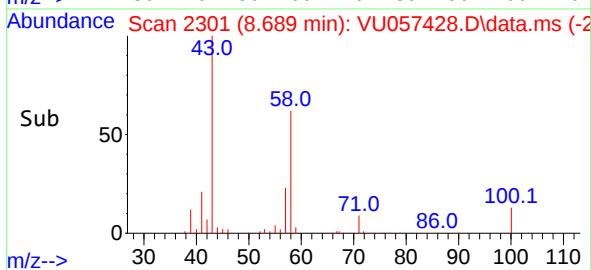
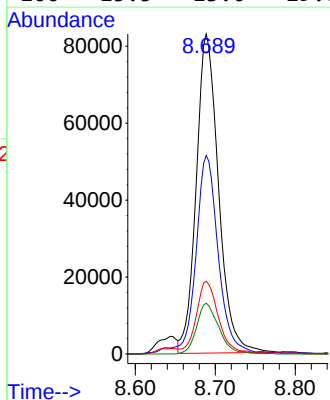
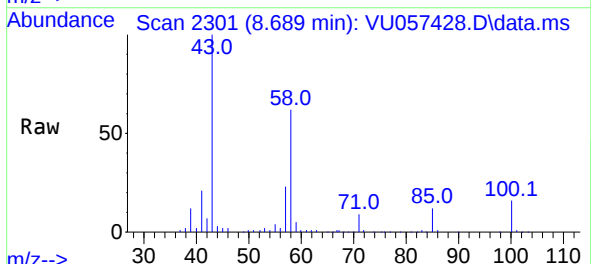


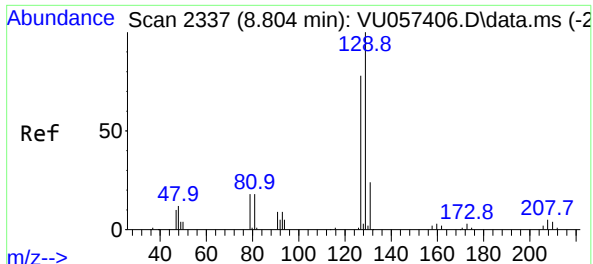
Tgt Ion:164 Resp: 78024  
Ion Ratio Lower Upper  
164 100  
129 100.4 72.3 134.3  
131 101.2 68.8 127.8  
166 126.0 91.8 170.4



#48  
2-Hexanone  
Concen: 110.973 ug/L  
RT: 8.689 min Scan# 2301  
Delta R.T. -0.006 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion: 43 Resp: 161455  
Ion Ratio Lower Upper  
43 100  
58 60.4 49.4 74.2  
57 20.1 19.1 28.7  
100 15.5 13.0 19.6

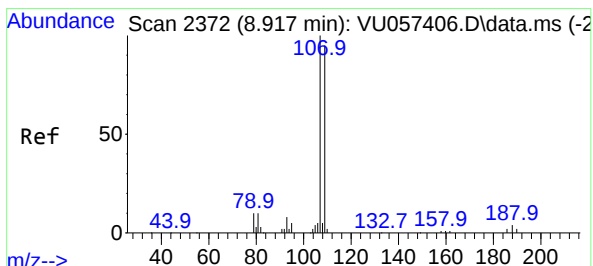
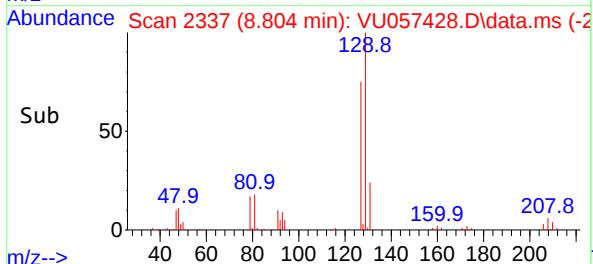
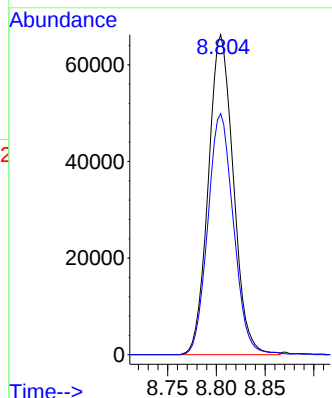
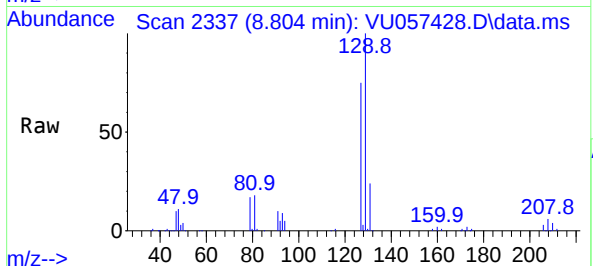




#49  
Dibromochloromethane  
Concen: 49.823 ug/L  
RT: 8.804 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

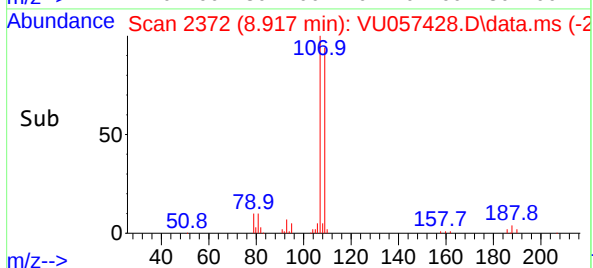
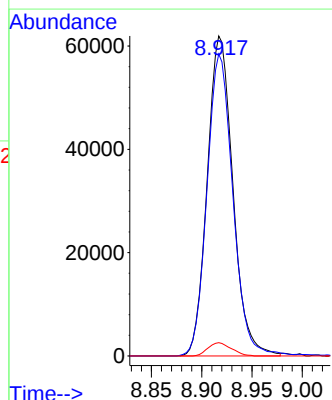
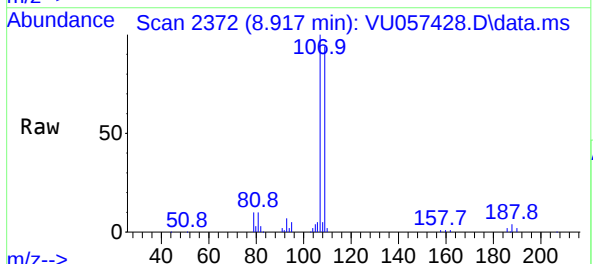
Instrument :  
MSVOA\_U  
ClientSampleId :

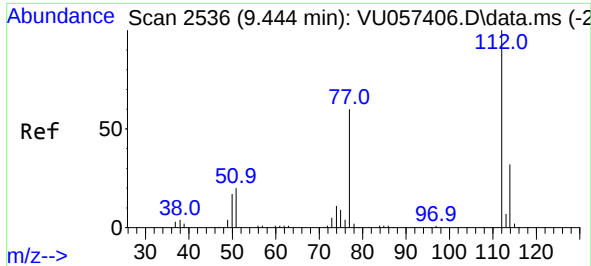
Tgt Ion:129 Resp: 118573  
Ion Ratio Lower Upper  
129 100  
127 75.3 54.5 101.1



#50  
1,2-Dibromoethane  
Concen: 53.024 ug/L  
RT: 8.917 min Scan# 2372  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion:107 Resp: 109837  
Ion Ratio Lower Upper  
107 100  
109 94.4 64.4 119.6  
188 4.1 2.8 4.2

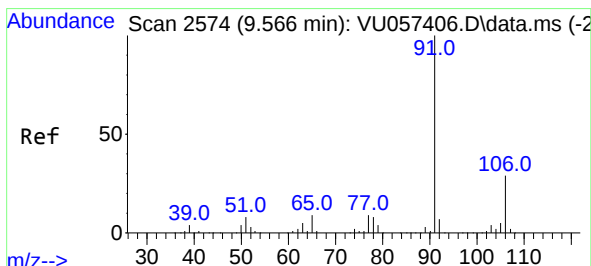
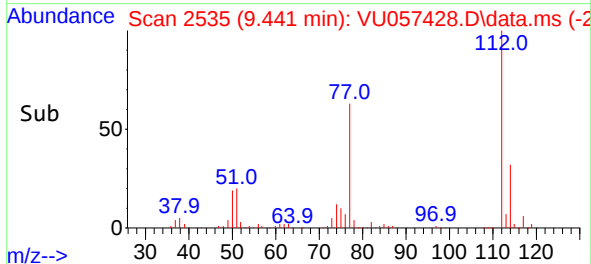
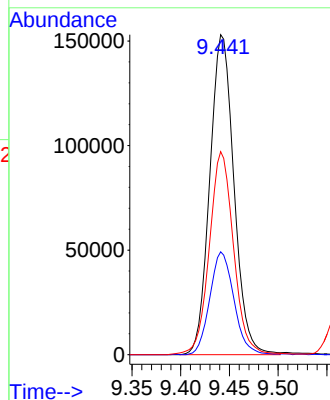
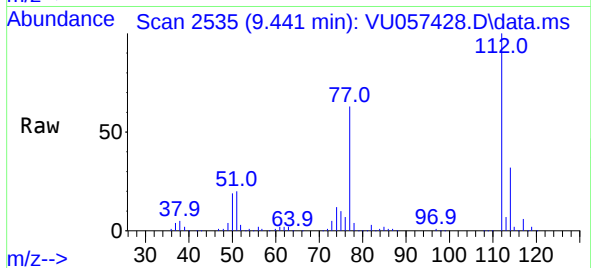




#51  
Chlorobenzene  
Concen: 50.761 ug/L  
RT: 9.441 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

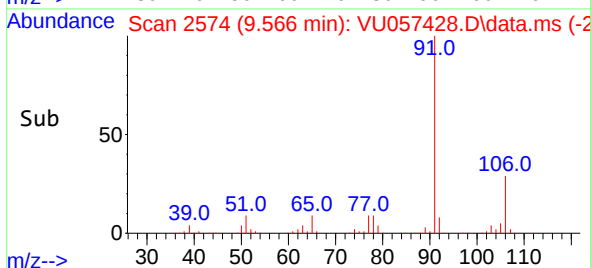
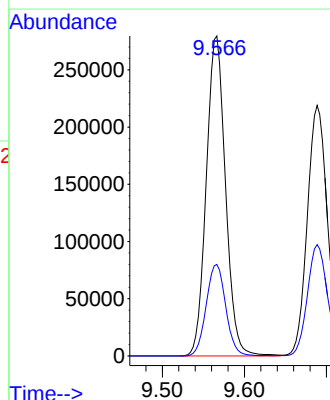
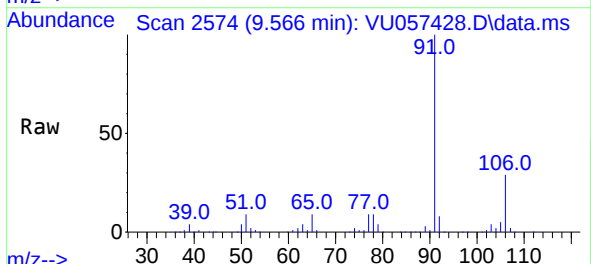
Instrument :  
MSVOA\_U  
ClientSampleId :

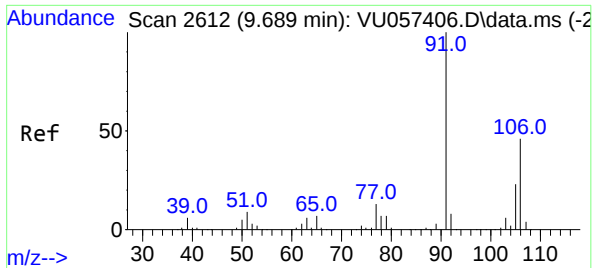
Tgt Ion:112 Resp: 263782  
Ion Ratio Lower Upper  
112 100  
114 32.1 22.5 41.7  
77 63.4 50.1 75.1



#52  
Ethylbenzene  
Concen: 52.925 ug/L  
RT: 9.566 min Scan# 2574  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion: 91 Resp: 455795  
Ion Ratio Lower Upper  
91 100  
106 28.6 21.0 39.0

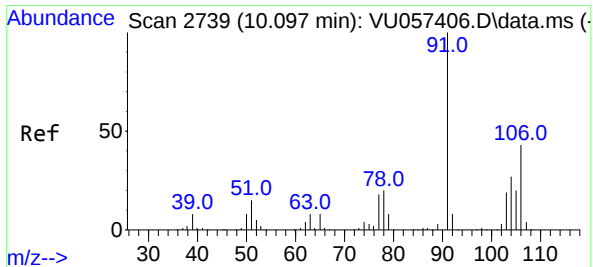
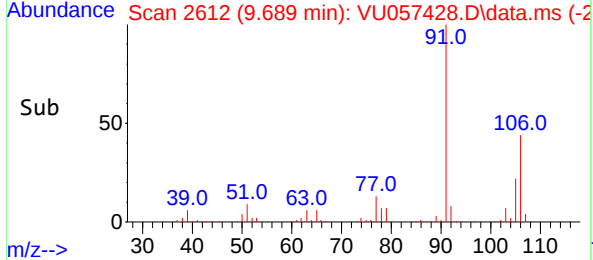
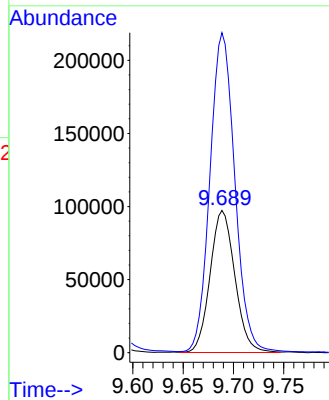
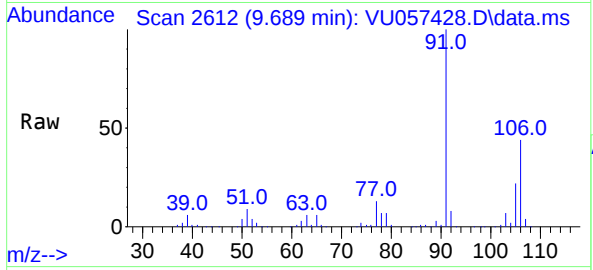




#53  
m,p-Xylene  
Concen: 51.760 ug/L  
RT: 9.689 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

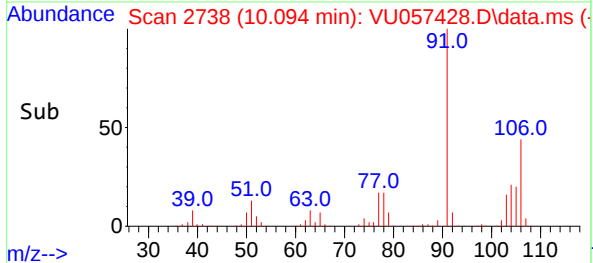
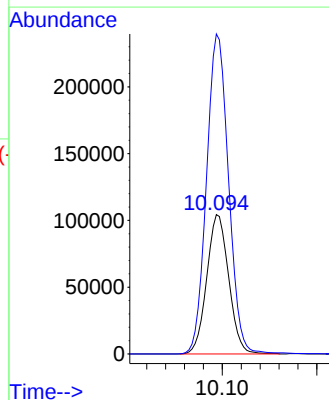
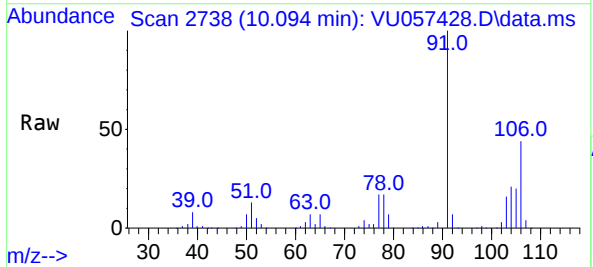
Instrument :  
MSVOA\_U  
ClientSampleId :

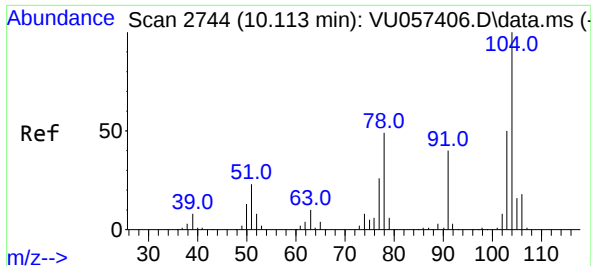
Tgt Ion:106 Resp: 166632  
Ion Ratio Lower Upper  
106 100  
91 224.9 151.8 281.8



#54  
o-Xylene  
Concen: 53.531 ug/L  
RT: 10.094 min Scan# 2738  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion:106 Resp: 168297  
Ion Ratio Lower Upper  
106 100  
91 229.6 160.4 297.8

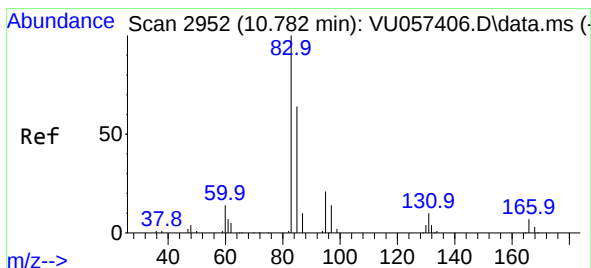
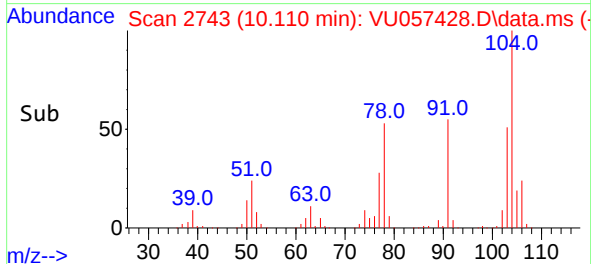
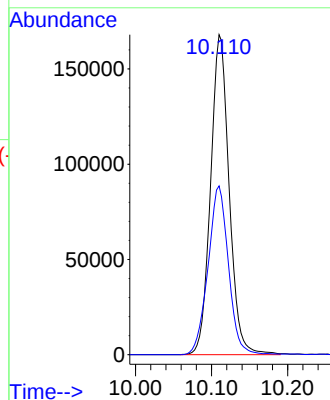
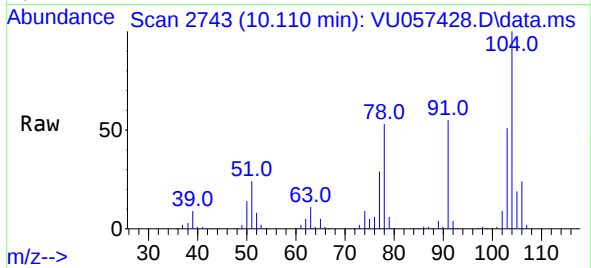




#55  
Styrene  
Concen: 53.515 ug/L  
RT: 10.110 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

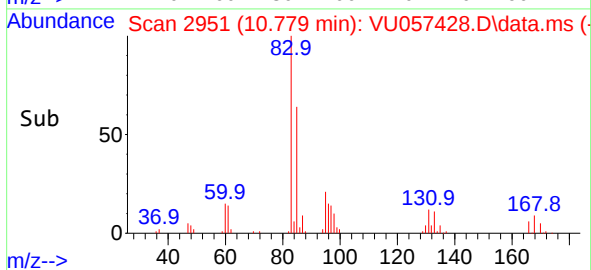
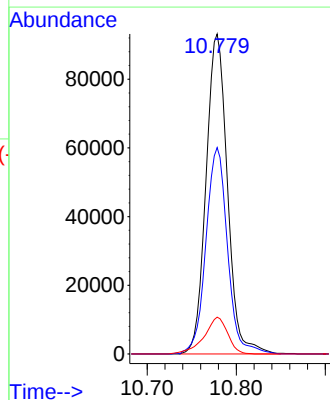
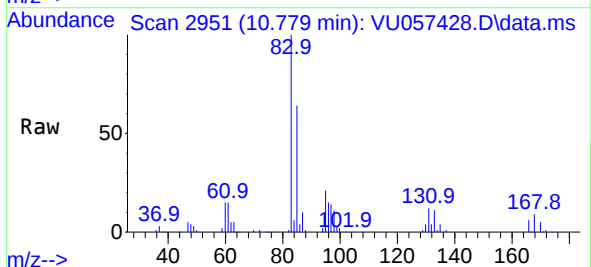
Instrument :  
MSVOA\_U  
ClientSampleId :

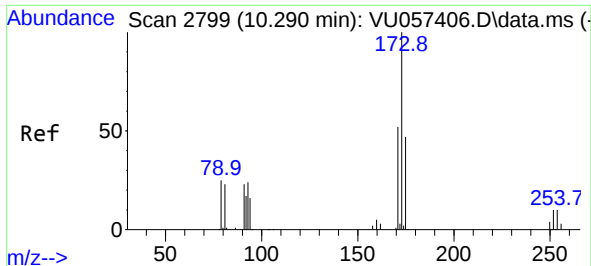
Tgt Ion:104 Resp: 284909  
Ion Ratio Lower Upper  
104 100  
78 52.8 35.8 66.6



#57  
1,1,2,2-Tetrachloroethane  
Concen: 52.681 ug/L  
RT: 10.779 min Scan# 2951  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

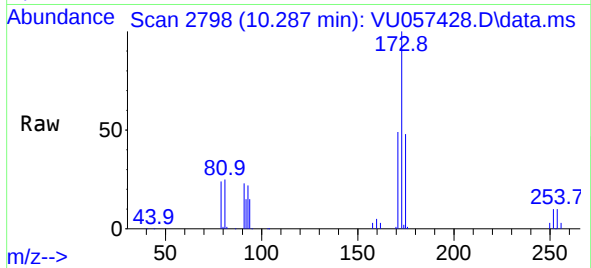
Tgt Ion: 83 Resp: 155126  
Ion Ratio Lower Upper  
83 100  
85 64.5 47.9 88.9  
131 11.5 9.8 14.8



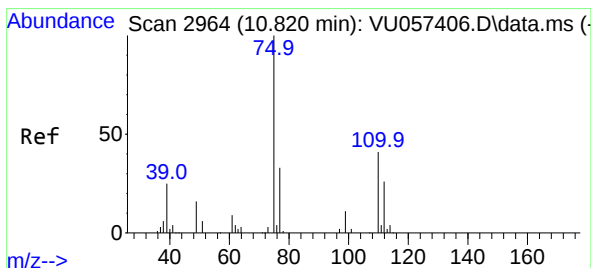
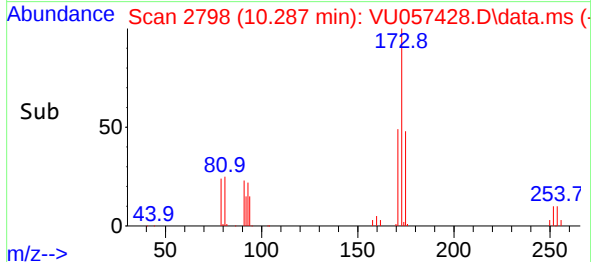
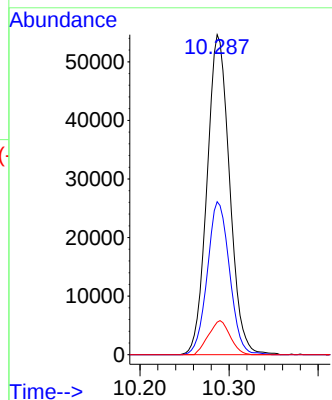


#59  
Bromoform  
Concen: 53.022 ug/L  
RT: 10.287 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

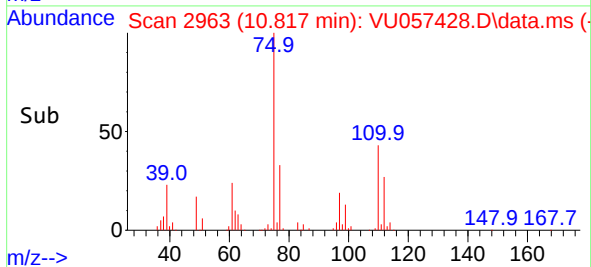
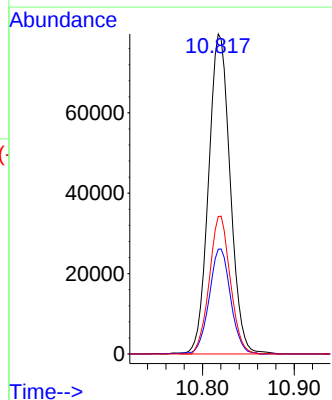
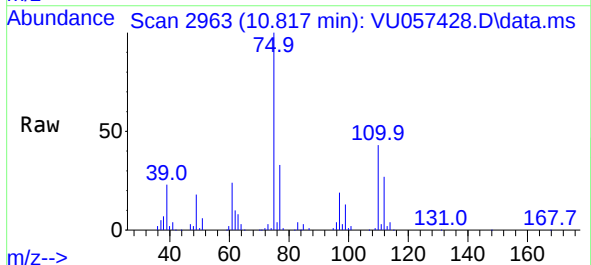


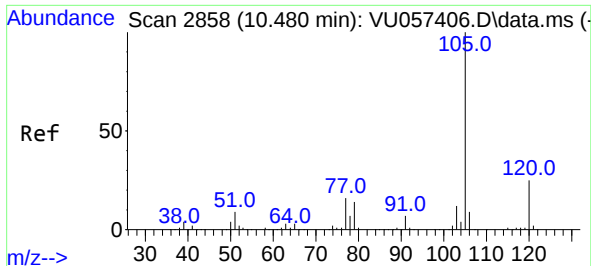
Tgt Ion:173 Resp: 96052  
Ion Ratio Lower Upper  
173 100  
175 47.1 38.4 57.6  
254 10.2 7.9 11.9



#60  
1,2,3-Trichloropropane  
Concen: 55.135 ug/L  
RT: 10.817 min Scan# 2963  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion: 75 Resp: 130476  
Ion Ratio Lower Upper  
75 100  
77 32.6 26.0 39.0  
110 41.7 33.6 50.4

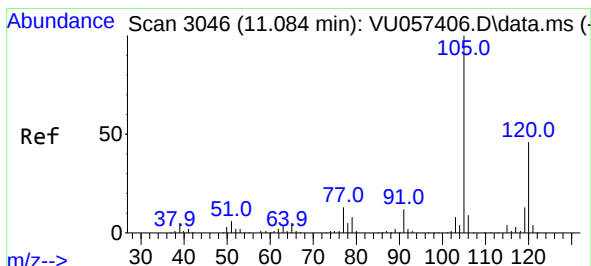
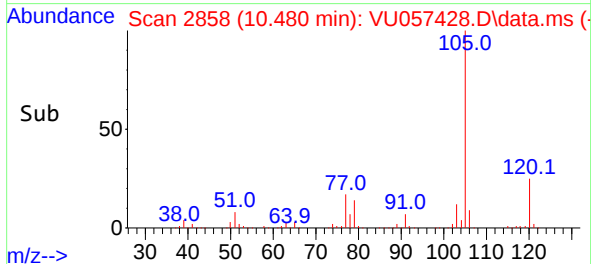
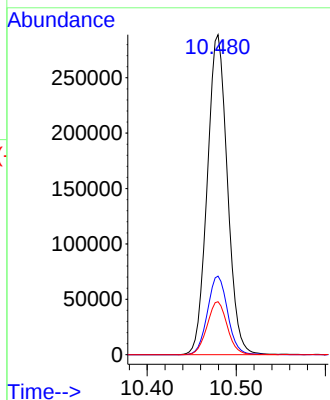
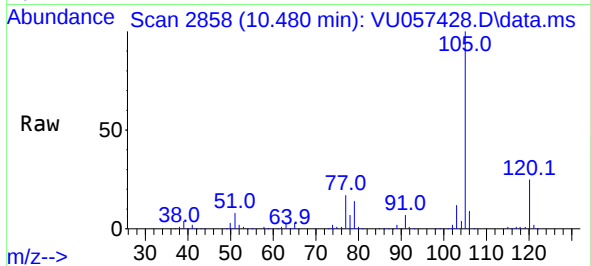




#61  
Isopropylbenzene  
Concen: 55.387 ug/L  
RT: 10.480 min Scan# 2858  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

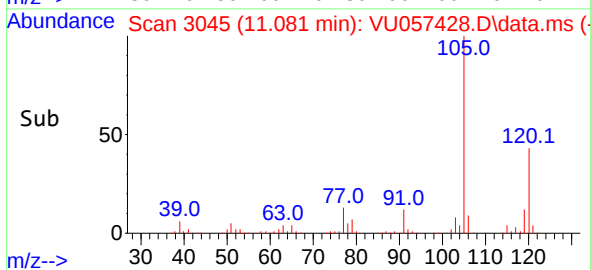
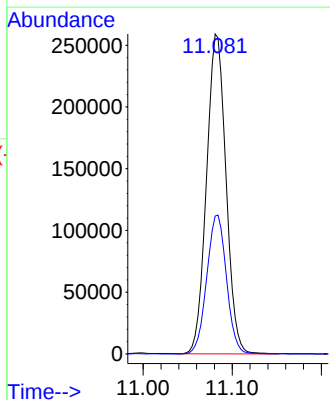
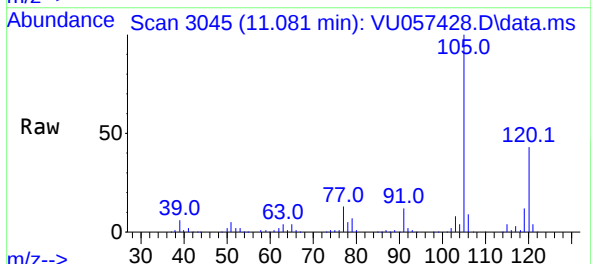
Instrument :  
MSVOA\_U  
ClientSampleId :

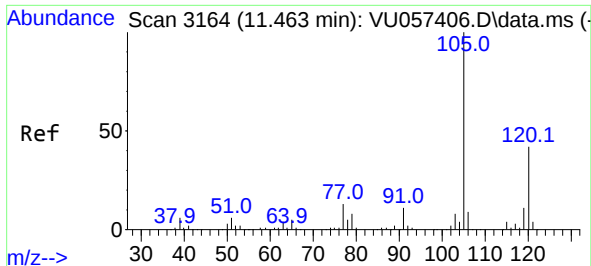
Tgt Ion:105 Resp: 453174  
Ion Ratio Lower Upper  
105 100  
120 24.6 19.9 29.9  
77 16.6 13.3 19.9



#62  
1,3,5-Trimethylbenzene  
Concen: 56.219 ug/L  
RT: 11.081 min Scan# 3045  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Tgt Ion:105 Resp: 393386  
Ion Ratio Lower Upper  
105 100  
120 44.0 36.1 54.1

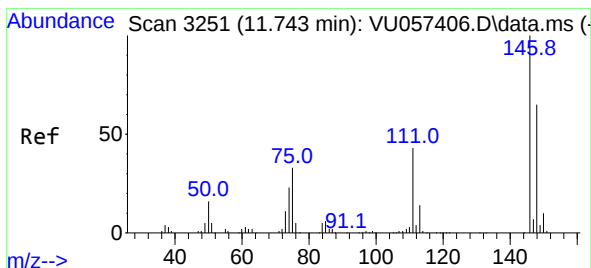
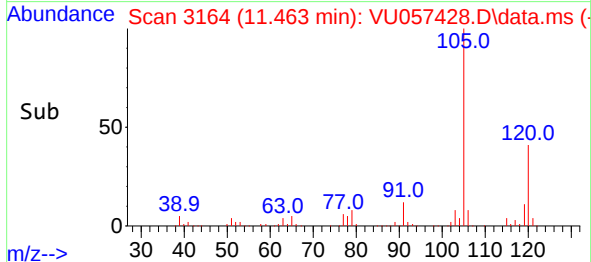
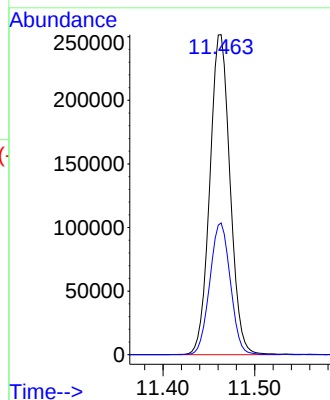
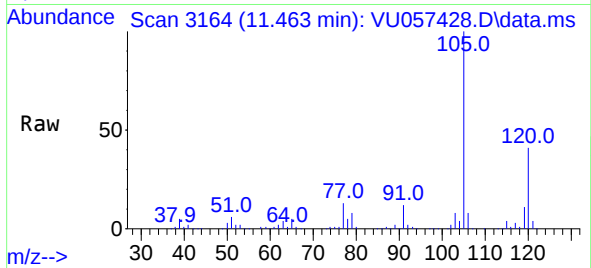




#63  
1,2,4-Trimethylbenzene  
Concen: 56.262 ug/L  
RT: 11.463 min Scan# 3164  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

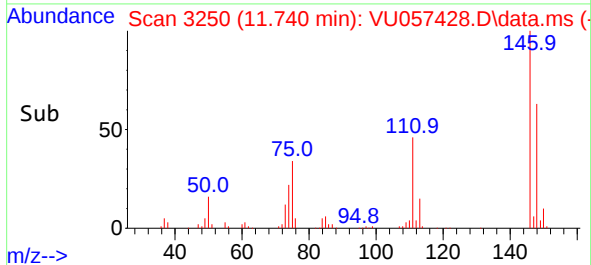
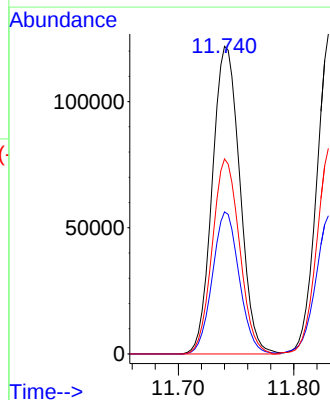
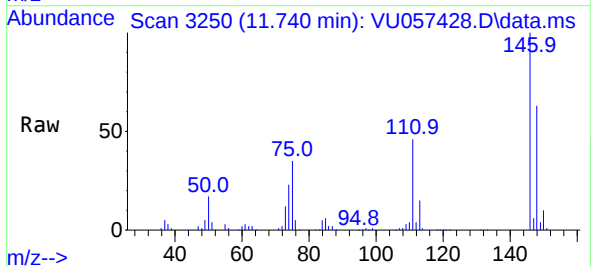
Instrument :  
MSVOA\_U  
ClientSampleId :

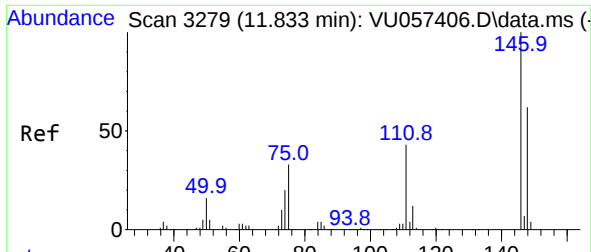
Tgt Ion:105 Resp: 386463  
Ion Ratio Lower Upper  
105 100  
120 41.8 33.4 50.2



#64  
1,3-Dichlorobenzene  
Concen: 52.400 ug/L  
RT: 11.740 min Scan# 3250  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

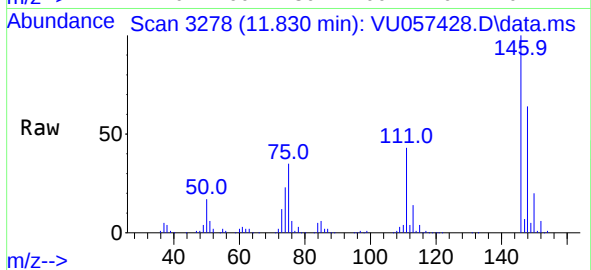
Tgt Ion:146 Resp: 202052  
Ion Ratio Lower Upper  
146 100  
111 46.2 31.6 58.8  
148 63.4 45.0 83.6



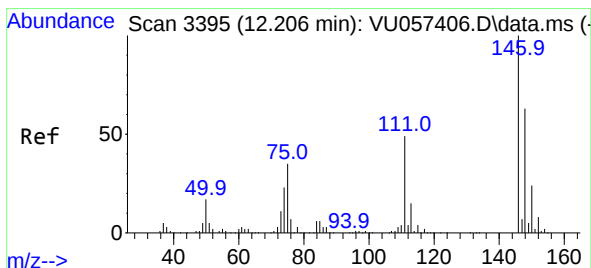
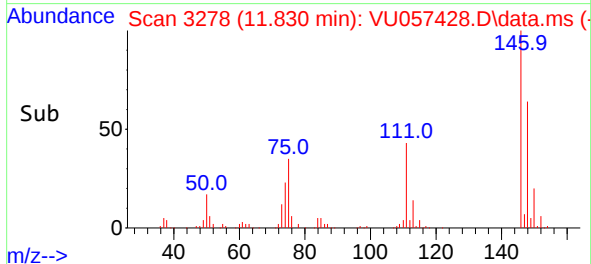
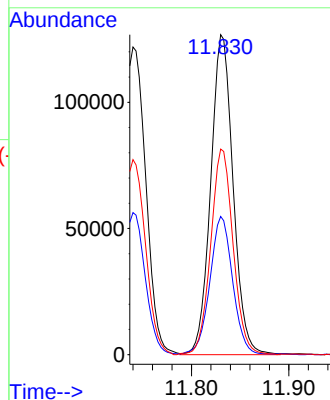


#65  
1,4-Dichlorobenzene  
Concen: 51.185 ug/L  
RT: 11.830 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

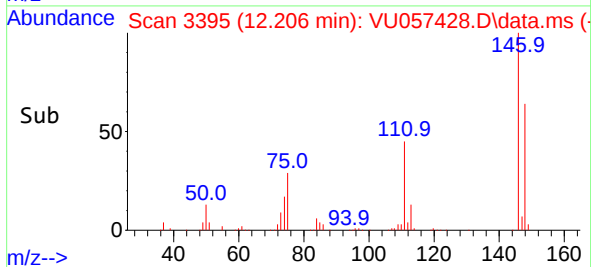
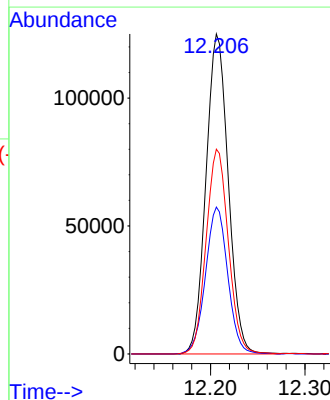
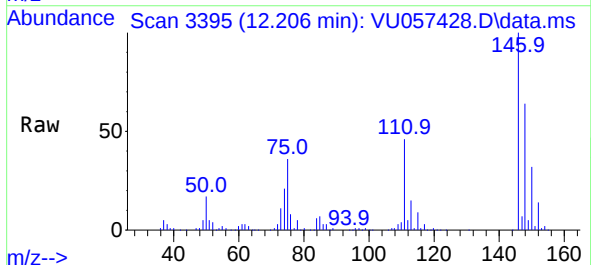


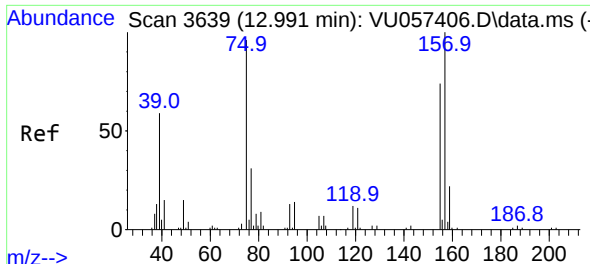
Tgt Ion:146 Resp: 202598  
Ion Ratio Lower Upper  
146 100  
111 43.2 30.3 56.3  
148 64.2 45.9 85.3



#67  
1,2-Dichlorobenzene  
Concen: 52.623 ug/L  
RT: 12.206 min Scan# 3395  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

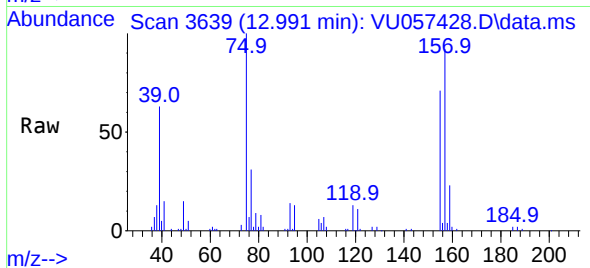
Tgt Ion:146 Resp: 204523  
Ion Ratio Lower Upper  
146 100  
111 45.9 36.9 55.3  
148 64.0 52.2 78.2



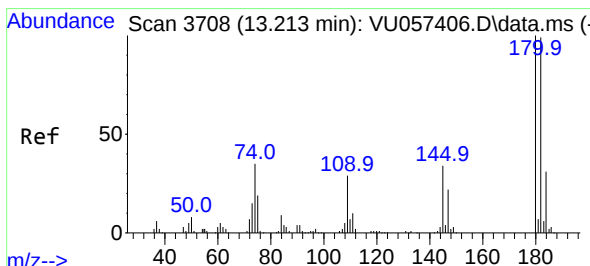
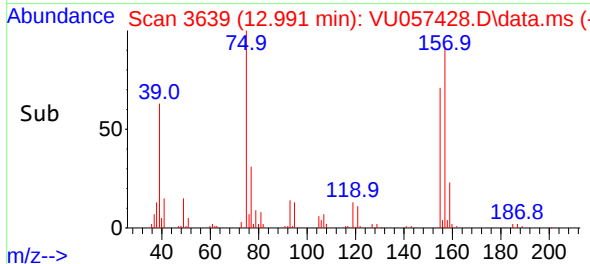
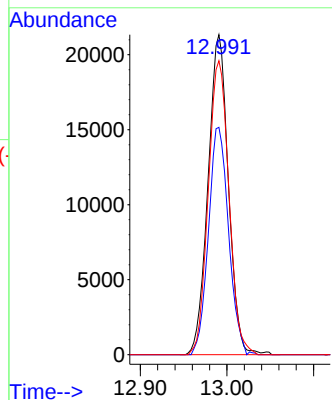


#68  
1,2-Dibromo-3-chloropropane  
Concen: 55.072 ug/L  
RT: 12.991 min Scan# 3639  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

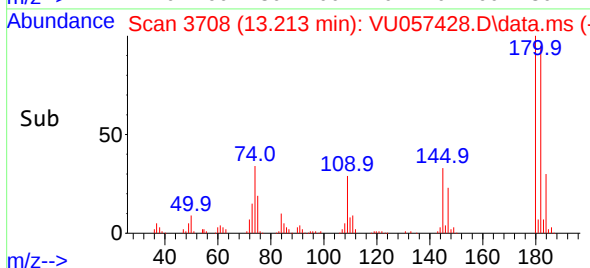
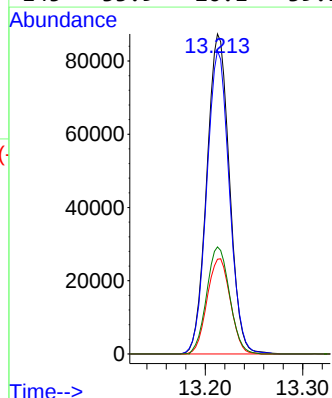
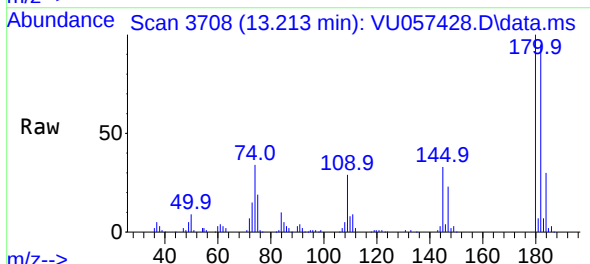


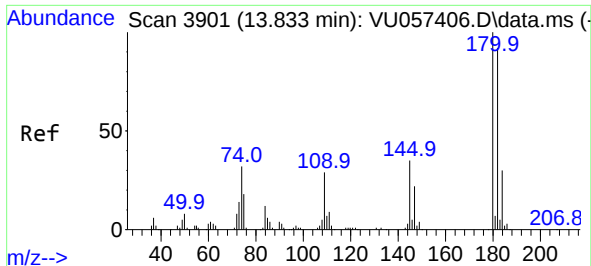
Tgt Ion: 75 Resp: 34800  
Ion Ratio Lower Upper  
75 100  
155 71.0 64.3 96.5  
157 91.9 73.8 110.6



#69  
1,3,5-Trichlorobenzene  
Concen: 50.952 ug/L  
RT: 13.213 min Scan# 3708  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

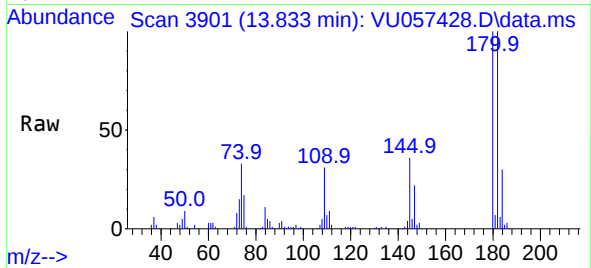
Tgt Ion:180 Resp: 140638  
Ion Ratio Lower Upper  
180 100  
182 94.6 75.6 113.4  
184 30.5 23.9 35.9  
145 33.9 26.1 39.1



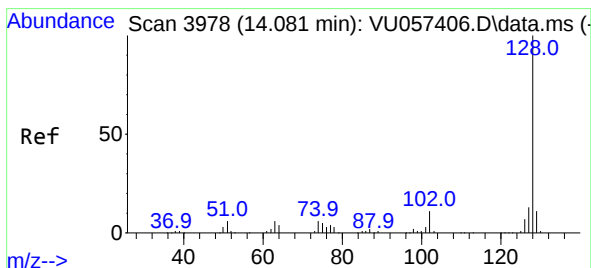
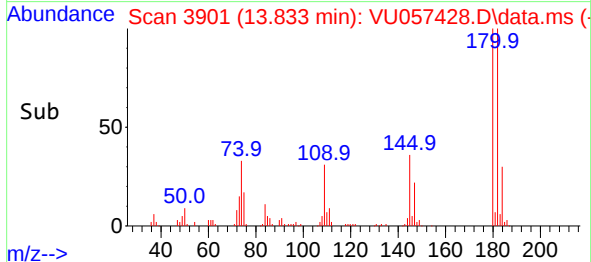
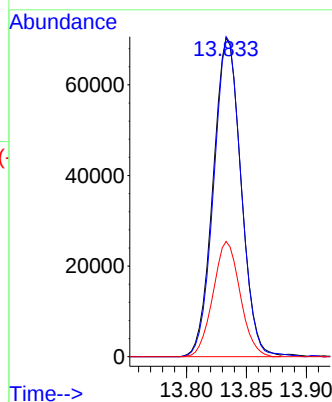


#70  
1,2,4-trichlorobenzene  
Concen: 54.071 ug/L  
RT: 13.833 min Scan# 3901  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

Instrument :  
MSVOA\_U  
ClientSampleId :

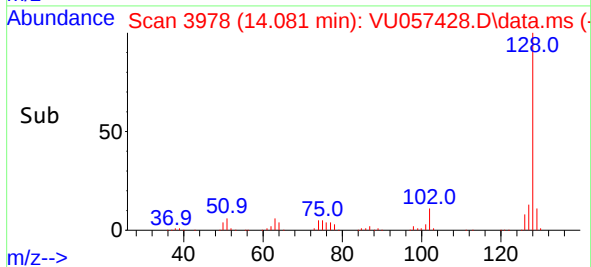
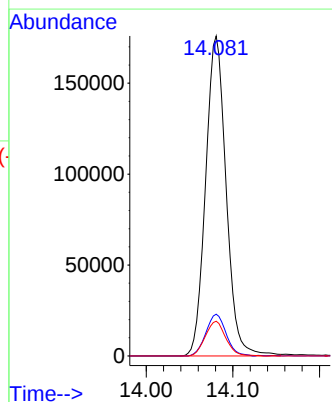
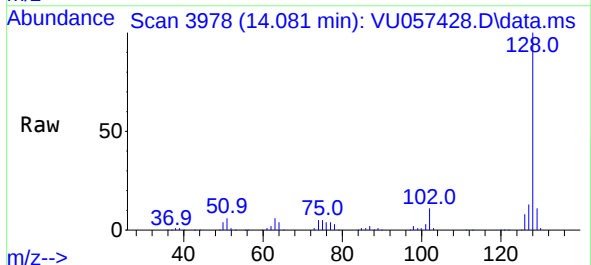


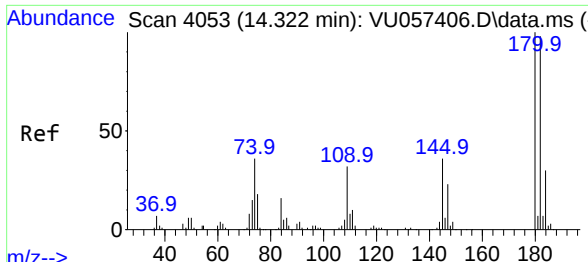
Tgt Ion:180 Resp: 113628  
Ion Ratio Lower Upper  
180 100  
182 98.1 75.8 113.8  
145 35.2 27.4 41.0



#71  
Naphthalene  
Concen: 58.989 ug/L  
RT: 14.081 min Scan# 3978  
Delta R.T. 0.000 min  
Lab File: VU057428.D  
Acq: 09 Jan 2024 09:59

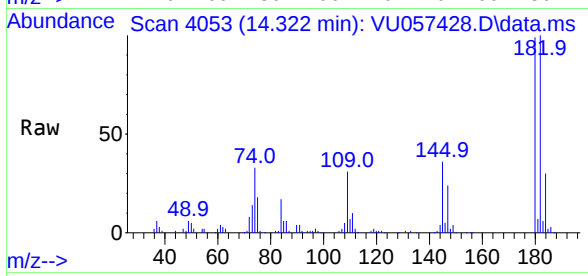
Tgt Ion:128 Resp: 289650  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.2 15.2  
129 10.8 8.5 12.7





#72  
 1,2,3-Trichlorobenzene  
 Concen: 55.127 ug/L  
 RT: 14.322 min Scan# 4053  
 Delta R.T. 0.000 min  
 Lab File: VU057428.D  
 Acq: 09 Jan 2024 09:59

Instrument :  
 MSVOA\_U  
 ClientSampleId :



Tgt Ion:180 Resp: 109555

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 97.9  | 77.5  | 116.3 |
| 145 | 35.5  | 28.2  | 42.4  |

