

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU012725\  
 Data File : VU063033.D  
 Acq On : 27 Jan 2025 22:18  
 Operator : MD/SY  
 Sample : Q1174-15MS  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 29 07:32:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR012725WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Jan 29 07:27:08 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.235  | 114   | 90851    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.406  | 117   | 86435    | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.801 | 152   | 53844    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.589  | 65    | 12149    | 3.720    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 74.400%  |
| 7) Chloroethane-d5            | 1.904  | 69    | 11865    | 4.785    | ug/L   | 0.02     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 95.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.554  | 65    | 9270     | 4.746    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 95.000%  |
| 20) 2-Butanone-d5             | 4.621  | 46    | 39190    | 41.345   | ug/L   | 0.01     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 82.680%  |
| 24) Chloroform-d              | 5.049  | 84    | 60441    | 4.659    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 93.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.689  | 65    | 33110    | 4.471    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 89.400%  |
| 32) Benzene-d6                | 5.711  | 84    | 85757    | 4.342    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 86.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.676  | 67    | 21955    | 4.365    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 87.400%  |
| 41) Toluene-d8                | 7.885  | 98    | 89706    | 4.593    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 91.800%  |
| 43) trans-1,3-Dichloroprop... | 8.168  | 79    | 14055    | 4.514    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 90.200%  |
| 46) 2-Hexanone-d5             | 8.621  | 63    | 38676    | 49.786   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 99.580%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.743 | 84    | 22331    | 4.676    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 93.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.184 | 152   | 44704    | 4.638    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 92.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.380  | 85    | 36547    | 4.491    | ug/L   | 99       |
| 3) Chloromethane              | 1.515  | 50    | 14034    | 3.585    | ug/L   | 93       |
| 5) Vinyl chloride             | 1.596  | 62    | 18360    | 4.201    | ug/L   | 98       |
| 6) Bromomethane               | 1.847  | 94    | 10341    | 4.945    | ug/L   | 100      |
| 8) Chloroethane               | 1.924  | 64    | 11936    | 5.409    | ug/L   | 95       |
| 9) Trichlorofluoromethane     | 2.126  | 101   | 58449    | 5.290    | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.567  | 101   | 28020    | 5.154    | ug/L   | 90       |
| 12) 1,1-Dichloroethene        | 2.567  | 96    | 24679    | 5.229    | ug/L   | 87       |
| 13) Acetone                   | 2.641  | 43    | 28485    | 46.475   | ug/L   | 81       |
| 14) Carbon disulfide          | 2.779  | 76    | 63499    | 5.252    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.953  | 43    | 5061     | 4.300    | ug/L   | 94       |
| 16) Methylene chloride        | 3.030  | 84    | 24571    | 4.938    | ug/L   | 99       |
| 17) Methyl tert-butyl Ether   | 3.351  | 73    | 73811    | 5.221    | ug/L   | 96       |
| 18) trans-1,2-Dichloroethene  | 3.338  | 96    | 25726    | 5.094    | ug/L   | 87       |
| 19) 1,1-Dichloroethane        | 3.853  | 63    | 42979    | 4.909    | ug/L   | 95       |
| 21) 2-Butanone                | 4.705  | 43    | 35733    | 42.746   | ug/L   | 91       |
| 22) cis-1,2-Dichloroethene    | 4.650  | 96    | 31511    | 5.220    | ug/L   | 91       |
| 23) Bromochloromethane        | 4.962  | 128   | 15769    | 5.206    | ug/L # | 84       |
| 25) Chloroform                | 5.072  | 83    | 62369    | 4.931    | ug/L   | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU012725\  
 Data File : VU063033.D  
 Acq On : 27 Jan 2025 22:18  
 Operator : MD/SY  
 Sample : Q1174-15MS  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

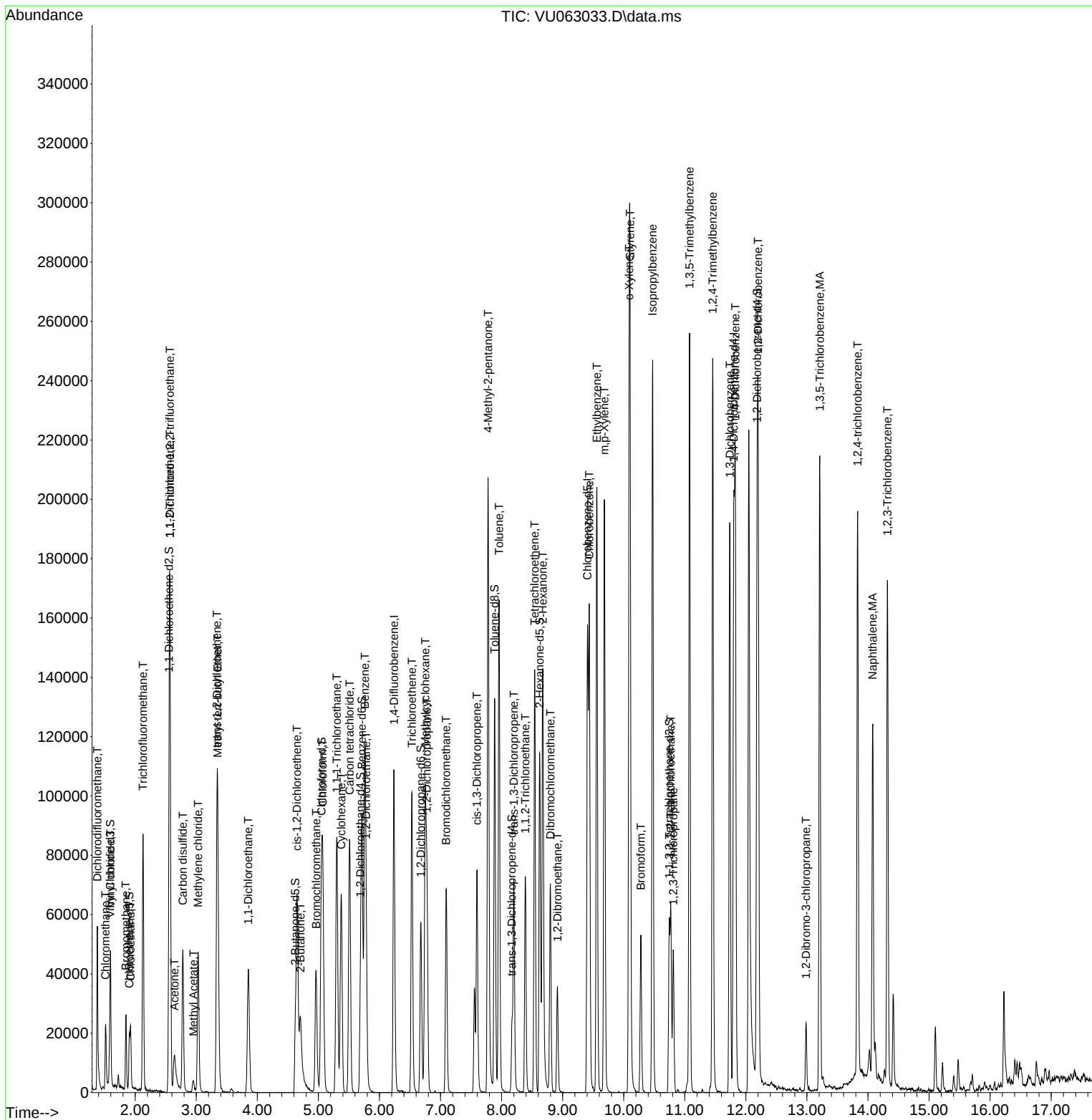
Instrument :  
 MSVOA\_U  
 ClientSampleId :

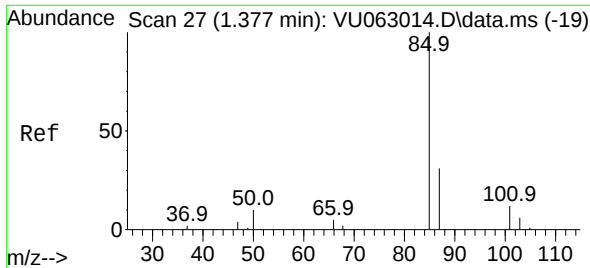
Quant Time: Jan 29 07:32:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR012725WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Jan 29 07:27:08 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.782  | 62   | 42714    | 4.818  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane     | 5.300  | 97   | 66802    | 4.984  | ug/L   | 97       |
| 30) Cyclohexane               | 5.374  | 56   | 29500    | 4.725  | ug/L # | 80       |
| 31) Carbon tetrachloride      | 5.512  | 117  | 62995    | 4.882  | ug/L   | 99       |
| 33) Benzene                   | 5.760  | 78   | 99056    | 4.730  | ug/L   | 100      |
| 34) Trichloroethene           | 6.531  | 95   | 32808    | 4.611  | ug/L   | 90       |
| 35) Methylcyclohexane         | 6.750  | 83   | 41836    | 4.666  | ug/L   | 91       |
| 37) 1,2-Dichloropropane       | 6.776  | 63   | 21061    | 4.472  | ug/L # | 95       |
| 38) Bromodichloromethane      | 7.091  | 83   | 46267    | 4.902  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 7.596  | 75   | 43239    | 4.876  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.779  | 43   | 107498   | 47.313 | ug/L # | 93       |
| 42) Toluene                   | 7.959  | 91   | 124577   | 5.005  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.200  | 75   | 40509    | 4.960  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 8.387  | 97   | 21986    | 4.960  | ug/L   | 93       |
| 47) Tetrachloroethene         | 8.541  | 164  | 32748    | 5.291  | ug/L   | 91       |
| 48) 2-Hexanone                | 8.673  | 43   | 79290    | 50.313 | ug/L # | 94       |
| 49) Dibromochloromethane      | 8.798  | 129  | 35777    | 5.172  | ug/L   | 94       |
| 50) 1,2-Dibromoethane         | 8.914  | 107  | 23370    | 5.219  | ug/L   | 96       |
| 51) Chlorobenzene             | 9.435  | 112  | 87833    | 5.089  | ug/L   | 93       |
| 52) Ethylbenzene              | 9.560  | 91   | 145204   | 5.006  | ug/L   | 97       |
| 53) m,p-Xylene                | 9.682  | 106  | 56158    | 5.013  | ug/L   | 99       |
| 54) o-Xylene                  | 10.087 | 106  | 55984    | 5.455  | ug/L   | 92       |
| 55) Styrene                   | 10.104 | 104  | 94418    | 5.442  | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.769 | 83   | 23684    | 4.776  | ug/L # | 90       |
| 59) Bromoform                 | 10.280 | 173  | 25035    | 4.893  | ug/L   | 96       |
| 60) Isopropylbenzene          | 10.473 | 105  | 163170   | 4.782  | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 10.811 | 75   | 18615    | 4.296  | ug/L   | 94       |
| 62) 1,3,5-Trimethylbenzene    | 11.078 | 105  | 140875   | 4.709  | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.457 | 105  | 142278   | 5.029  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.737 | 146  | 84110    | 4.856  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.827 | 146  | 83252    | 4.791  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 12.200 | 146  | 78731    | 4.831  | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.984 | 75   | 5956     | 5.198  | ug/L # | 66       |
| 69) 1,3,5-Trichlorobenzene    | 13.209 | 180  | 72374    | 5.230  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.830 | 180  | 61022    | 5.635  | ug/L   | 100      |
| 71) Naphthalene               | 14.078 | 128  | 99683    | 7.173  | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.319 | 180  | 55001    | 5.878  | ug/L   | 97       |

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

Quant Time: Jan 29 07:32:07 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR012725WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Jan 29 07:27:08 2025  
Response via : Initial Calibration

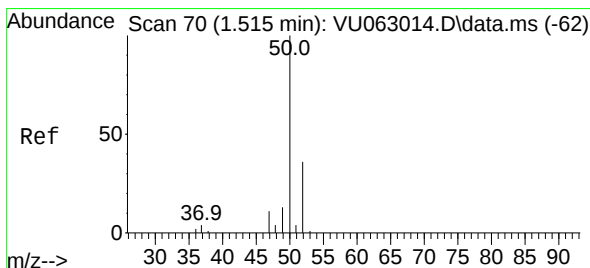
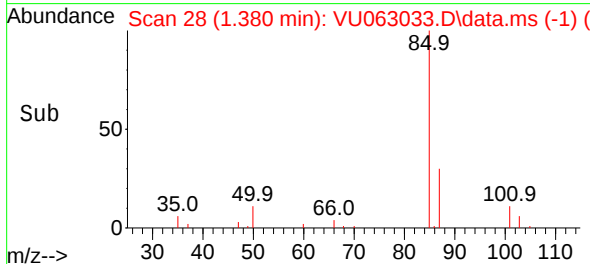
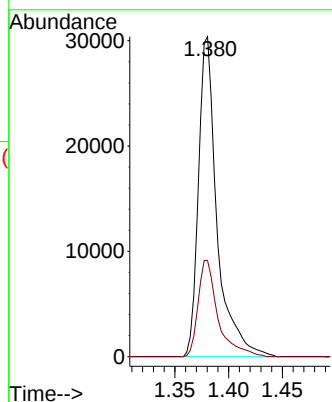
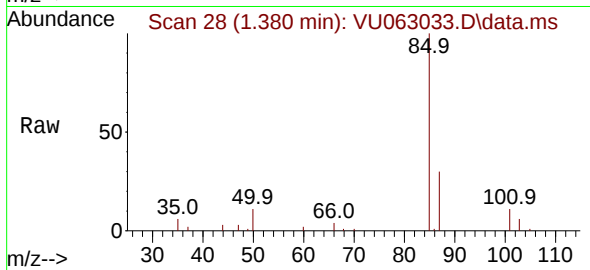




#2  
Dichlorodifluoromethane  
Concen: 4.491 ug/L  
RT: 1.380 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

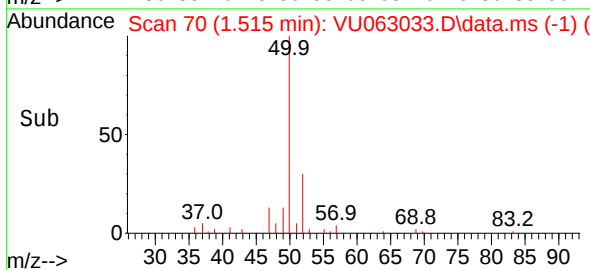
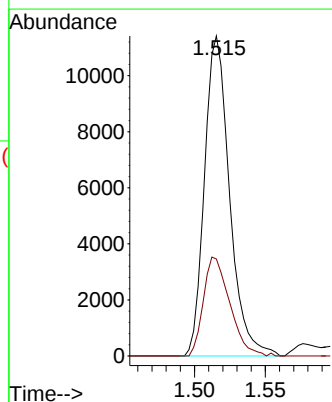
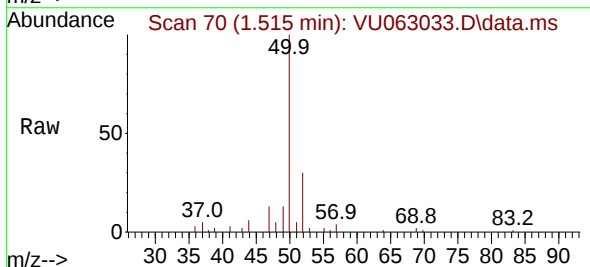
Instrument :  
MSVOA\_U  
ClientSampleId :

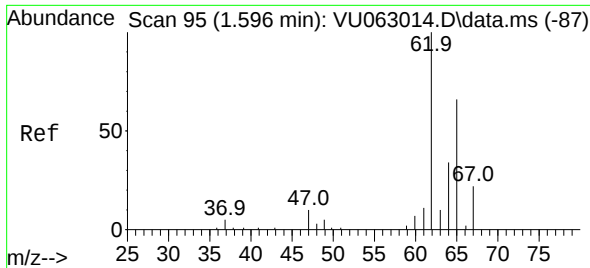
Tgt Ion: 85 Resp: 36547  
Ion Ratio Lower Upper  
85 100  
87 32.2 26.1 39.1



#3  
Chloromethane  
Concen: 3.585 ug/L  
RT: 1.515 min Scan# 70  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

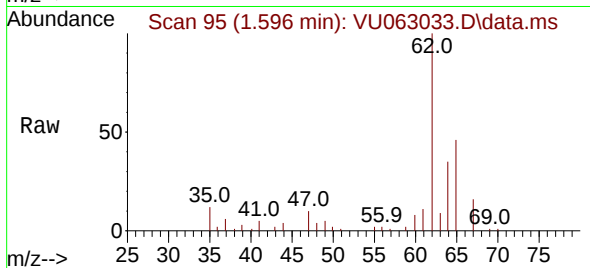
Tgt Ion: 50 Resp: 14034  
Ion Ratio Lower Upper  
50 100  
52 30.3 24.1 44.7



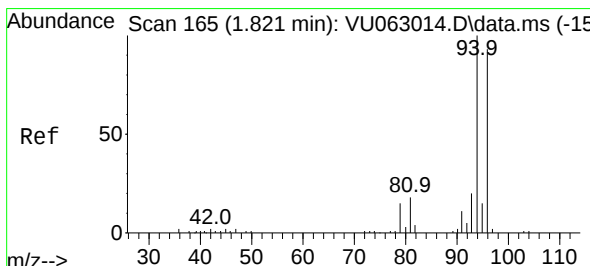
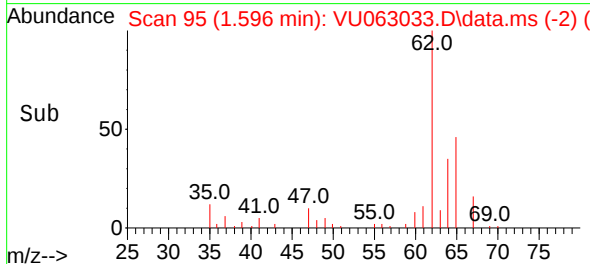
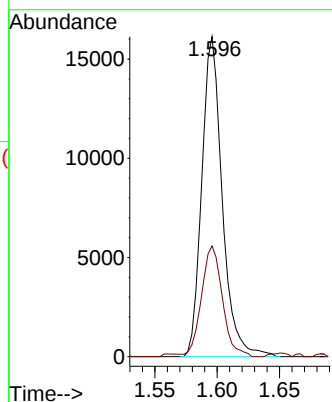


#5  
 Vinyl chloride  
 Concen: 4.201 ug/L  
 RT: 1.596 min Scan# 90  
 Delta R.T. 0.000 min  
 Lab File: VU063033.D  
 Acq: 27 Jan 2025 22:18

Instrument :  
 MSVOA\_U  
 ClientSampleId :

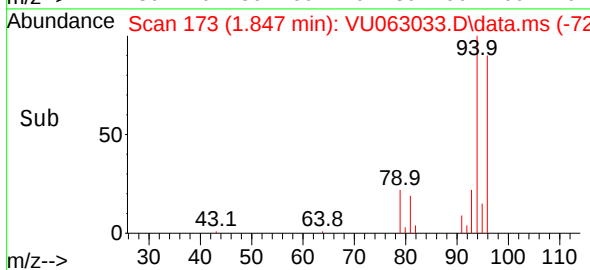
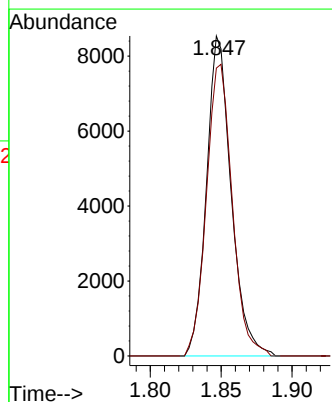
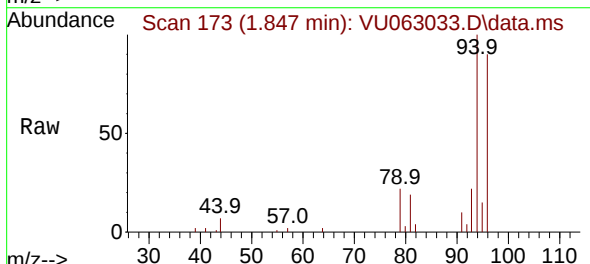


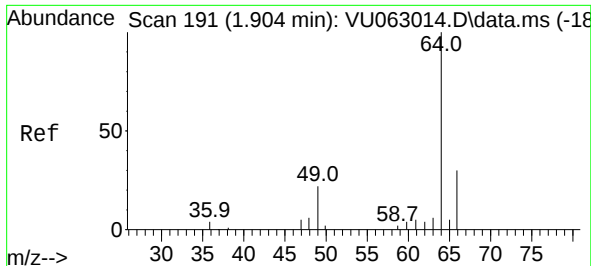
Tgt Ion: 62 Resp: 18360  
 Ion Ratio Lower Upper  
 62 100  
 64 34.6 23.4 43.4



#6  
 Bromomethane  
 Concen: 4.945 ug/L  
 RT: 1.847 min Scan# 173  
 Delta R.T. 0.026 min  
 Lab File: VU063033.D  
 Acq: 27 Jan 2025 22:18

Tgt Ion: 94 Resp: 10341  
 Ion Ratio Lower Upper  
 94 100  
 96 90.0 62.9 116.7

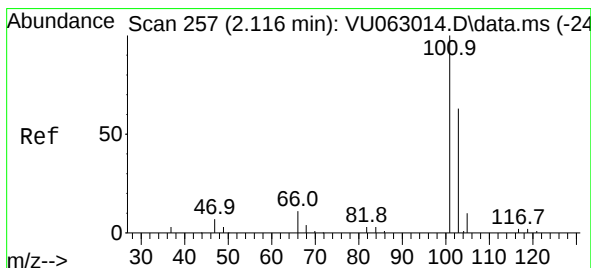
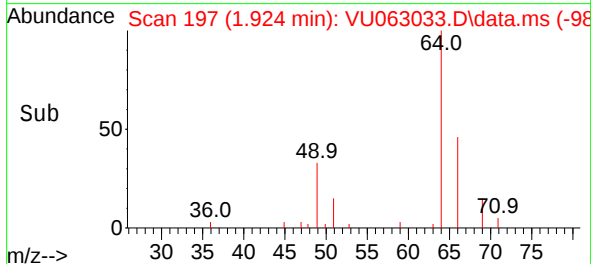
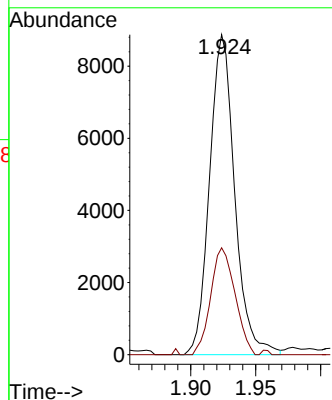
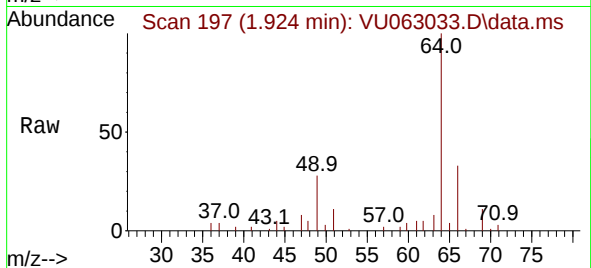




#8  
Chloroethane  
Concen: 5.409 ug/L  
RT: 1.924 min Scan# 11  
Delta R.T. 0.019 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

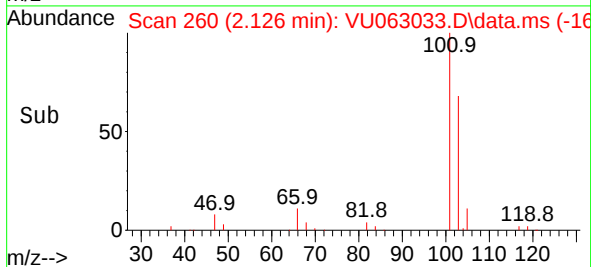
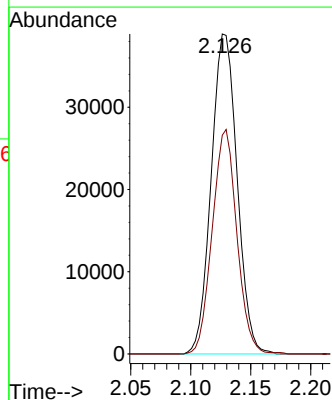
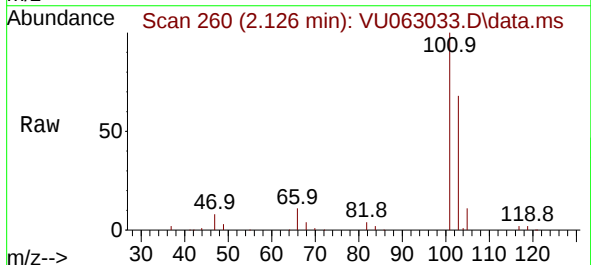
Instrument :  
MSVOA\_U  
ClientSampleId :

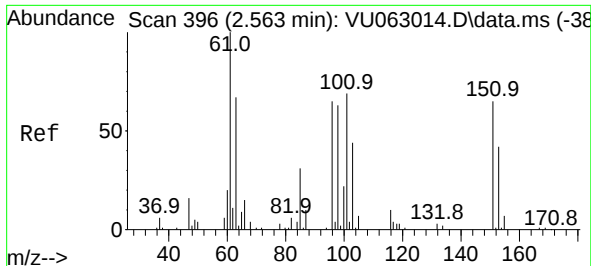
Tgt Ion: 64 Resp: 11936  
Ion Ratio Lower Upper  
64 100  
66 33.4 21.6 40.2



#9  
Trichlorofluoromethane  
Concen: 5.290 ug/L  
RT: 2.126 min Scan# 260  
Delta R.T. 0.010 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion:101 Resp: 58449  
Ion Ratio Lower Upper  
101 100  
103 66.7 51.4 77.0

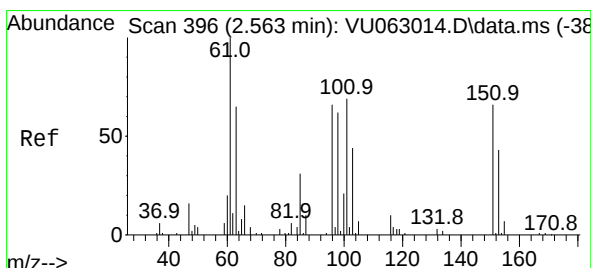
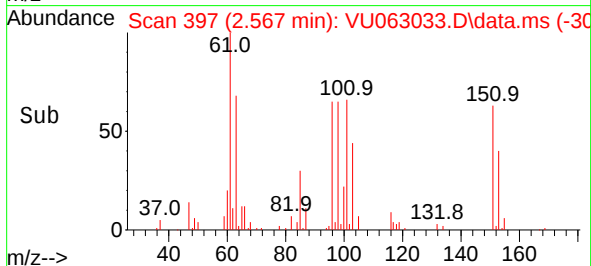
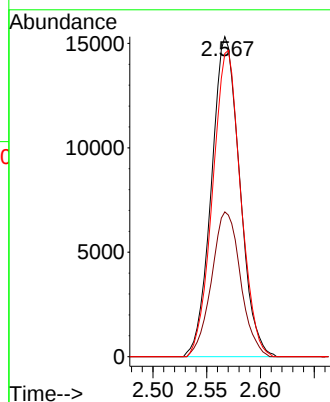
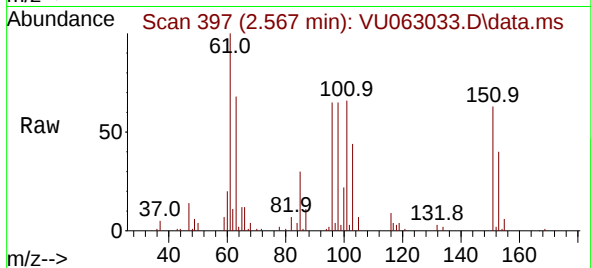




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 5.154 ug/L  
RT: 2.567 min Scan# 397  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

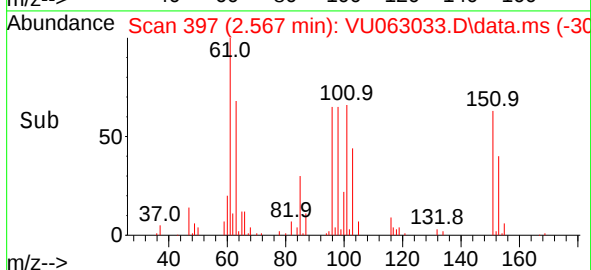
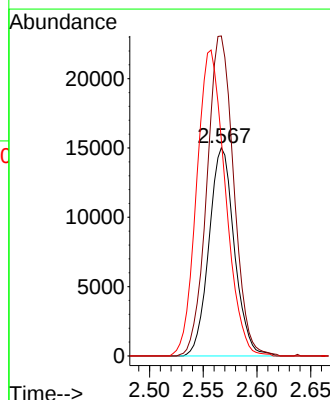
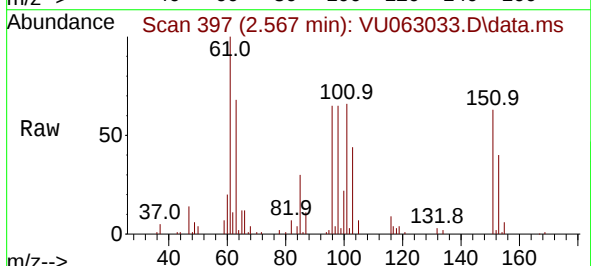
Instrument :  
MSVOA\_U  
ClientSampleId :

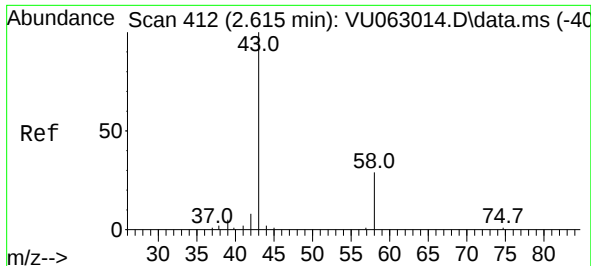
Tgt Ion:101 Resp: 28020  
Ion Ratio Lower Upper  
101 100  
85 46.2 37.0 55.6  
151 94.5 64.4 96.6



#12  
1,1-Dichloroethene  
Concen: 5.229 ug/L  
RT: 2.567 min Scan# 397  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion: 96 Resp: 24679  
Ion Ratio Lower Upper  
96 100  
61 153.7 120.4 223.6  
63 103.9 82.3 152.9

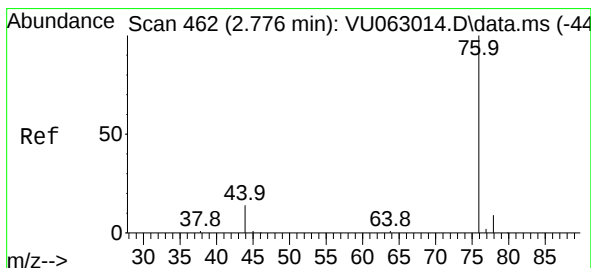
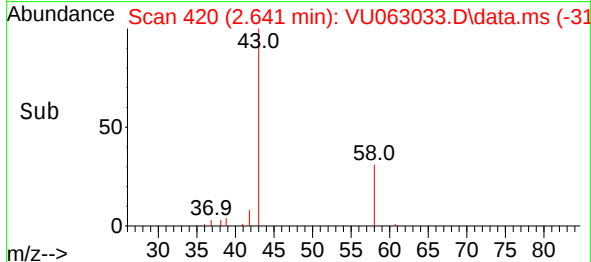
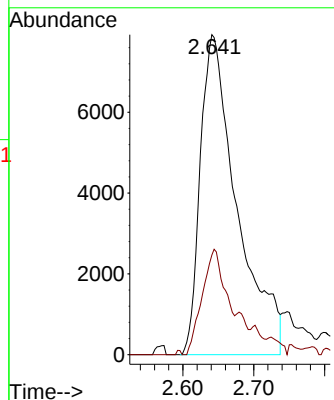
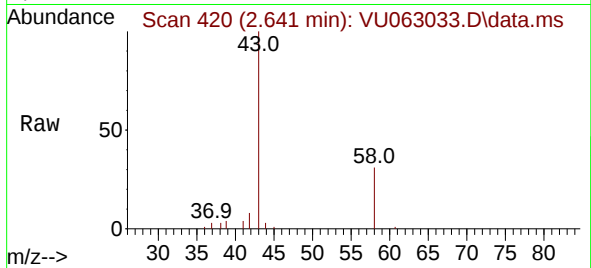




#13  
Acetone  
Concen: 46.475 ug/L  
RT: 2.641 min Scan# 412  
Delta R.T. 0.026 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

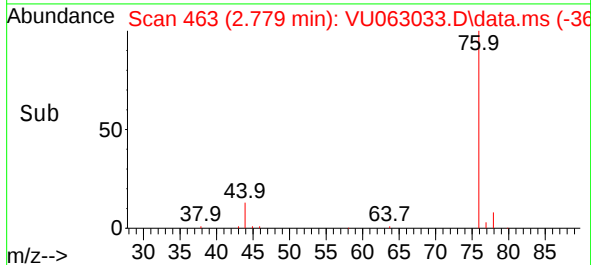
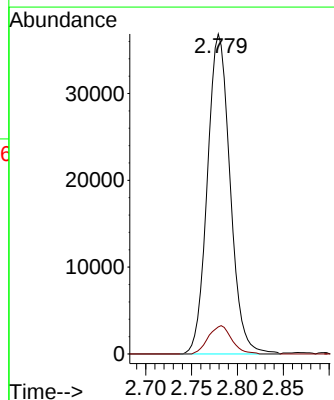
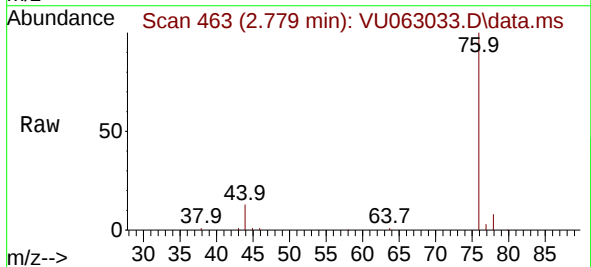
Instrument :  
MSVOA\_U  
ClientSampleId :

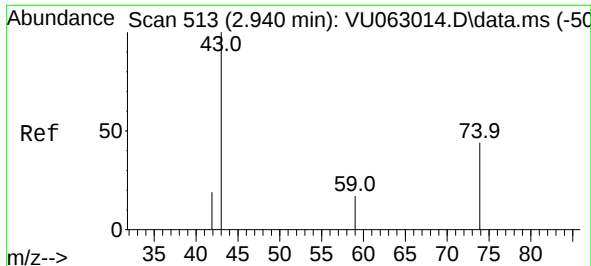
Tgt Ion: 43 Resp: 28485  
Ion Ratio Lower Upper  
43 100  
58 21.3 0.0 64.4



#14  
Carbon disulfide  
Concen: 5.252 ug/L  
RT: 2.779 min Scan# 463  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion: 76 Resp: 63499  
Ion Ratio Lower Upper  
76 100  
78 8.4 7.0 10.6





#15

Methyl Acetate

Concen: 4.300 ug/L

RT: 2.953 min Scan# 517

Delta R.T. 0.013 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Instrument :

MSVOA\_U

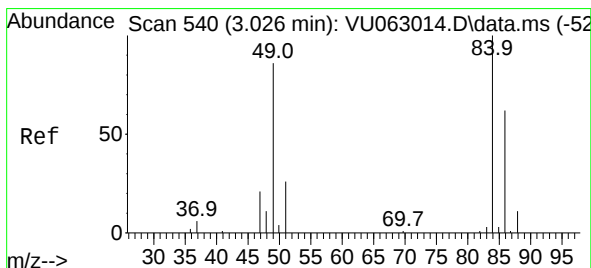
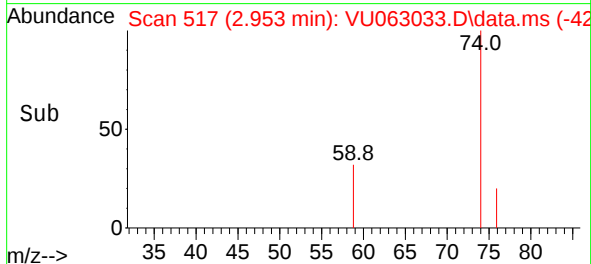
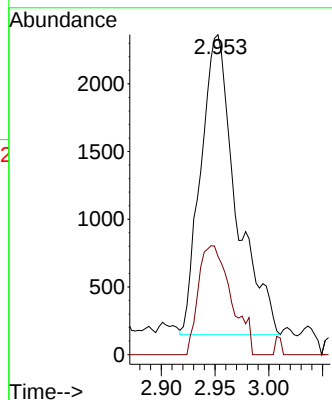
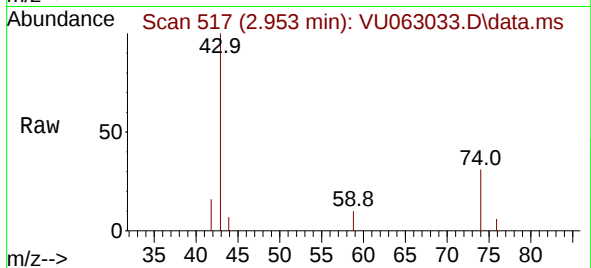
ClientSampleId :

Tgt Ion: 43 Resp: 5061

Ion Ratio Lower Upper

43 100

74 33.7 24.4 36.6



#16

Methylene chloride

Concen: 4.938 ug/L

RT: 3.030 min Scan# 541

Delta R.T. 0.003 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

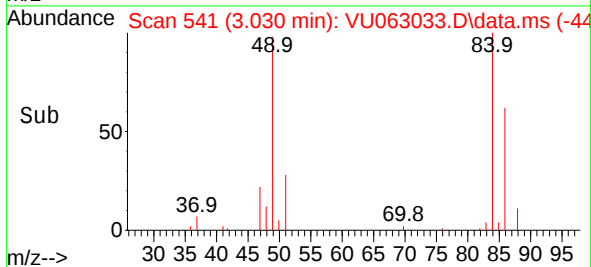
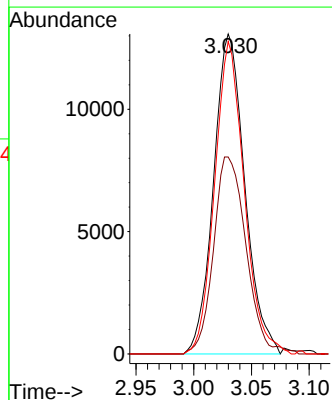
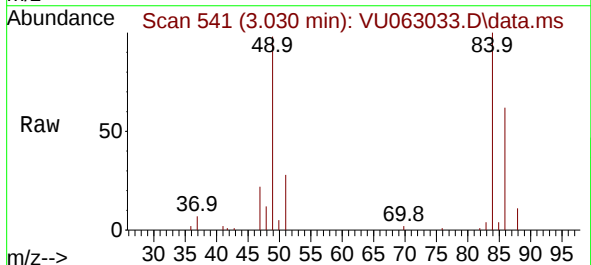
Tgt Ion: 84 Resp: 24571

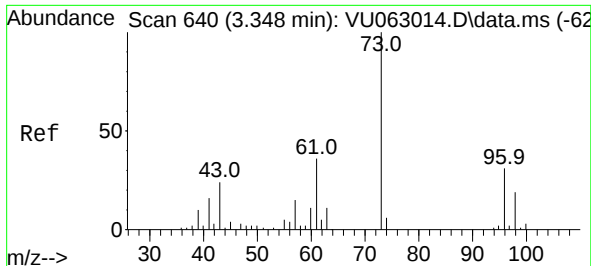
Ion Ratio Lower Upper

84 100

86 61.6 44.7 83.1

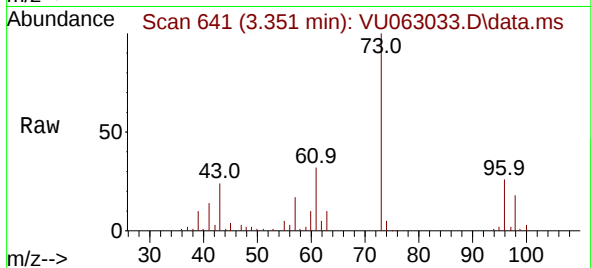
49 97.7 68.3 126.9



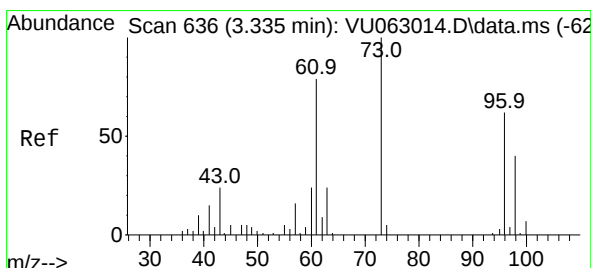
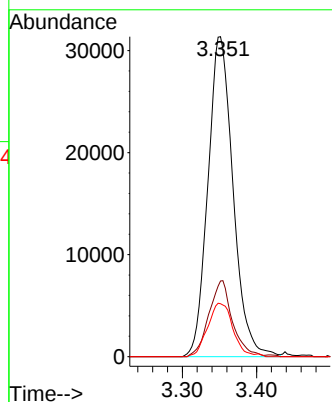
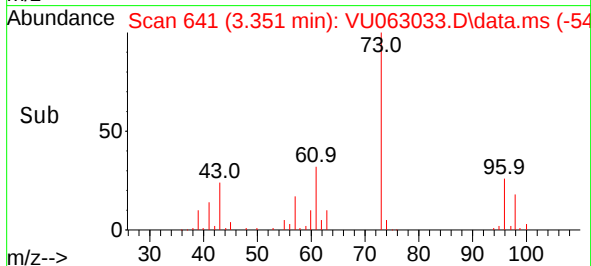


#17  
Methyl tert-butyl Ether  
Concen: 5.221 ug/L  
RT: 3.351 min Scan# 641  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

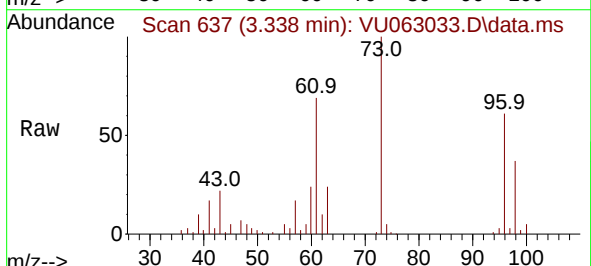
Instrument :  
MSVOA\_U  
ClientSampleId :



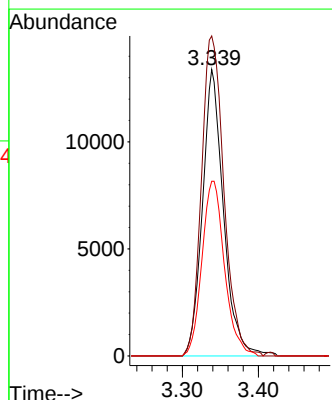
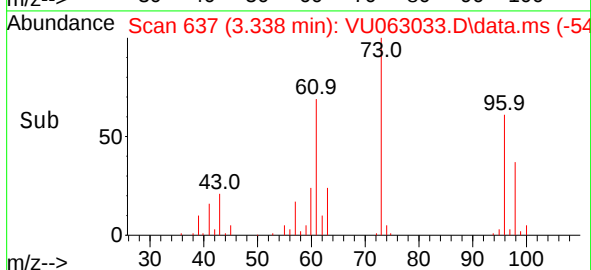
Tgt Ion: 73 Resp: 73811  
Ion Ratio Lower Upper  
73 100  
43 22.1 16.2 24.4  
57 16.6 14.6 22.0

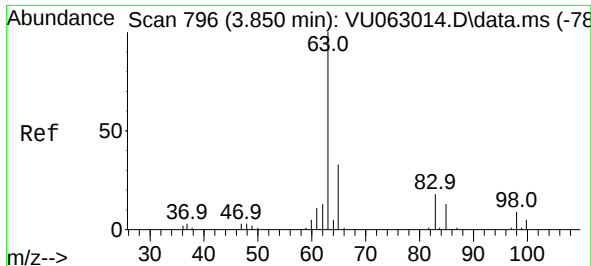


#18  
trans-1,2-Dichloroethene  
Concen: 5.094 ug/L  
RT: 3.338 min Scan# 637  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18



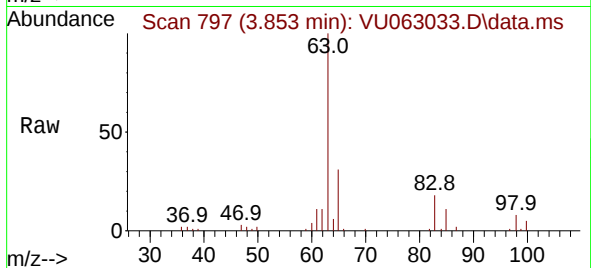
Tgt Ion: 96 Resp: 25726  
Ion Ratio Lower Upper  
96 100  
61 111.7 94.4 175.2  
98 61.0 42.8 79.4



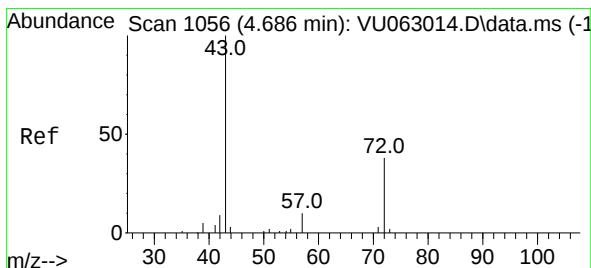
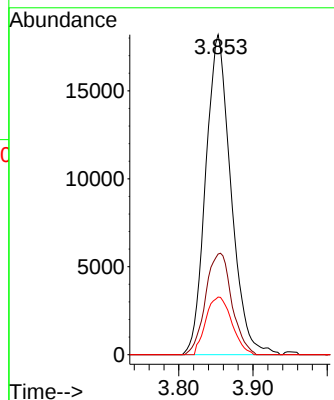
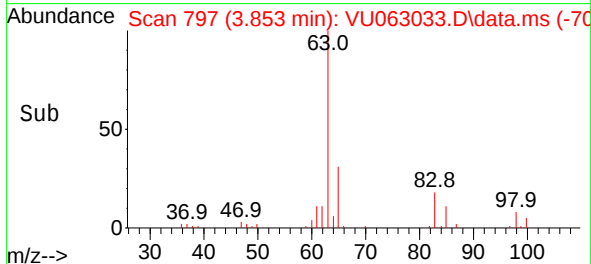


#19  
1,1-Dichloroethane  
Concen: 4.909 ug/L  
RT: 3.853 min Scan# 796  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Instrument :  
MSVOA\_U  
ClientSampleId :

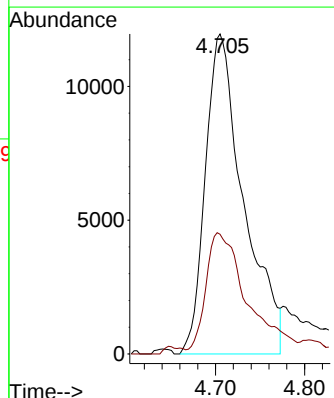
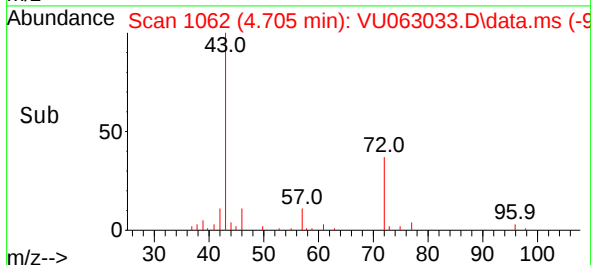
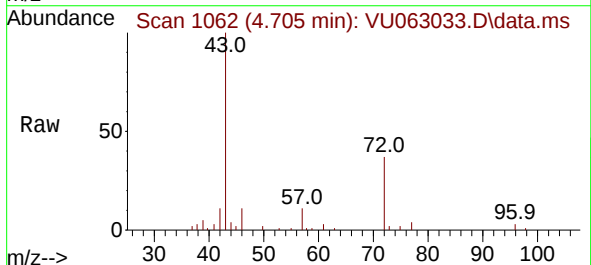


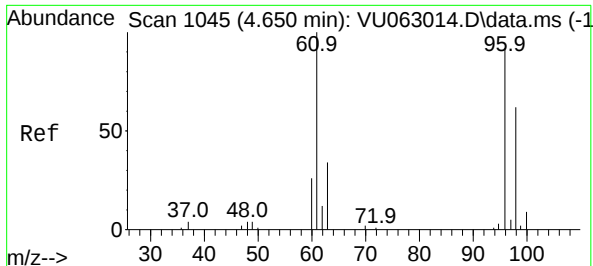
Tgt Ion: 63 Resp: 42979  
Ion Ratio Lower Upper  
63 100  
65 31.4 20.7 38.5  
83 18.0 10.5 19.5



#21  
2-Butanone  
Concen: 42.746 ug/L  
RT: 4.705 min Scan# 1062  
Delta R.T. 0.019 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion: 43 Resp: 35733  
Ion Ratio Lower Upper  
43 100  
72 39.3 17.1 51.2





#22

cis-1,2-Dichloroethene

Concen: 5.220 ug/L

RT: 4.650 min Scan# 1

Delta R.T. 0.000 min

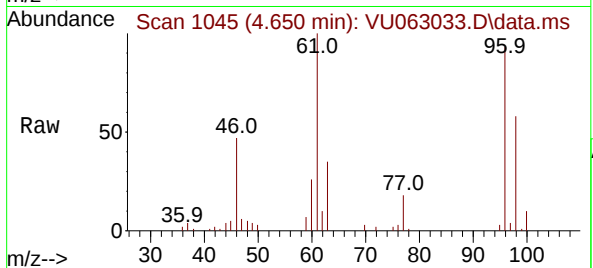
Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Instrument :

MSVOA\_U

ClientSampleId :



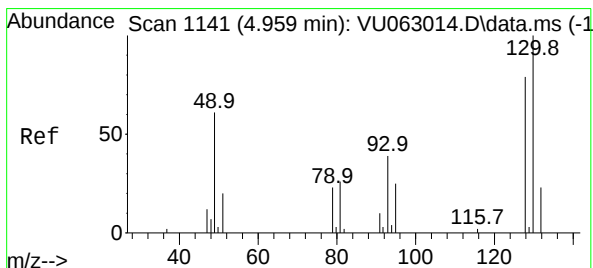
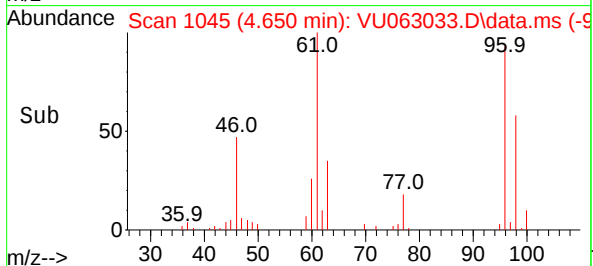
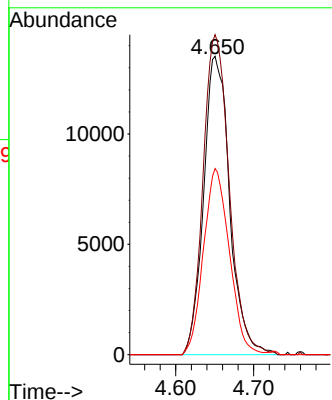
Tgt Ion: 96 Resp: 31511

Ion Ratio Lower Upper

96 100

61 107.3 84.8 157.6

98 62.4 43.1 80.1



#23

Bromochloromethane

Concen: 5.206 ug/L

RT: 4.962 min Scan# 1142

Delta R.T. 0.003 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Tgt Ion:128 Resp: 15769

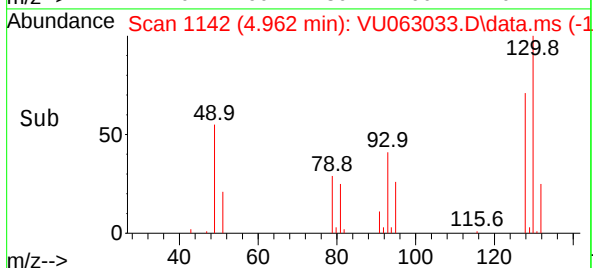
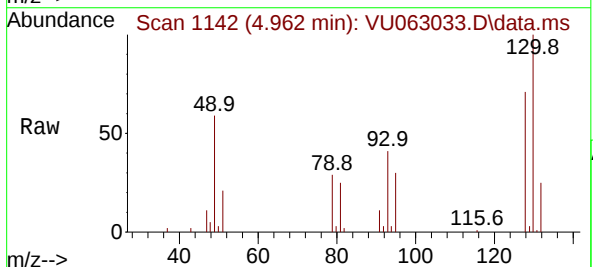
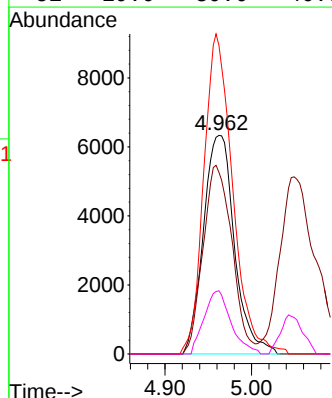
Ion Ratio Lower Upper

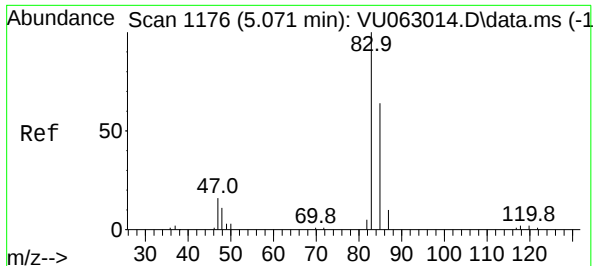
128 100

49 83.1 81.1 150.7

130 141.2 94.9 176.3

51 29.0 30.6 46.0#

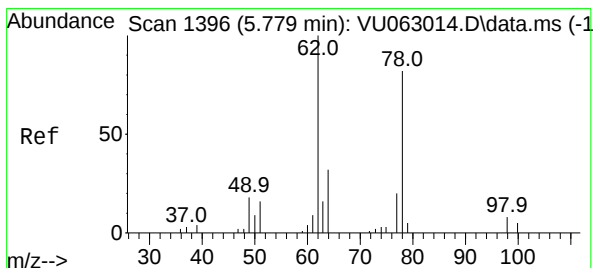
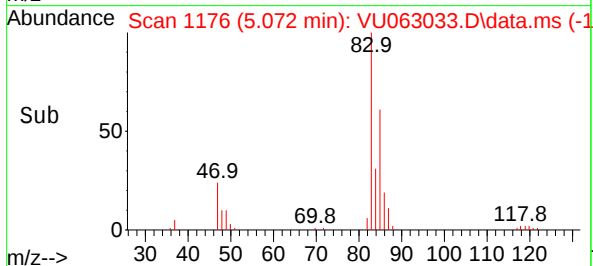
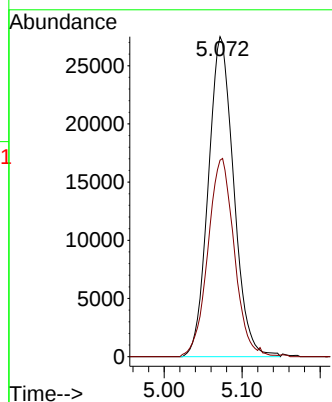
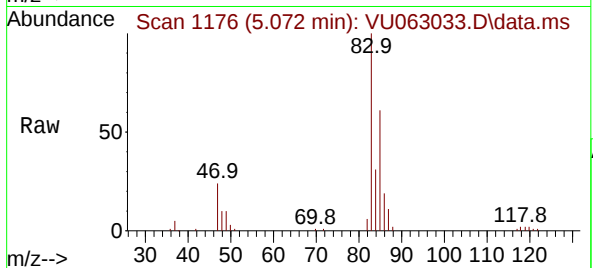




#25  
Chloroform  
Concen: 4.931 ug/L  
RT: 5.072 min Scan# 1176  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

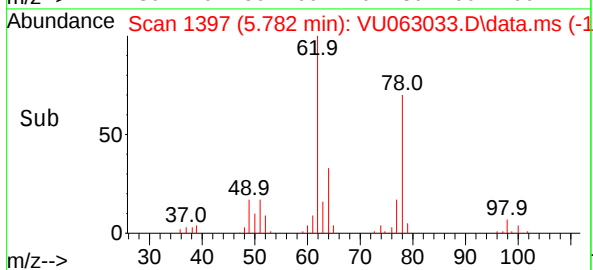
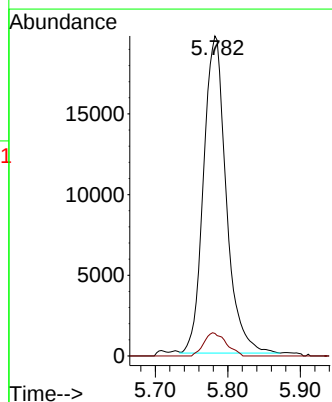
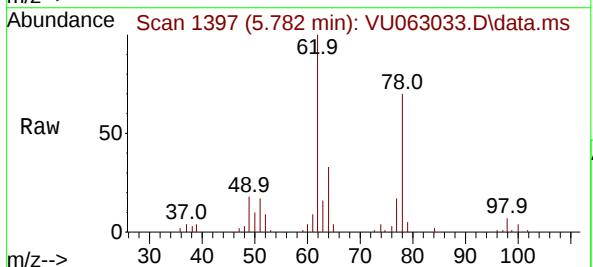
Instrument :  
MSVOA\_U  
ClientSampleId :

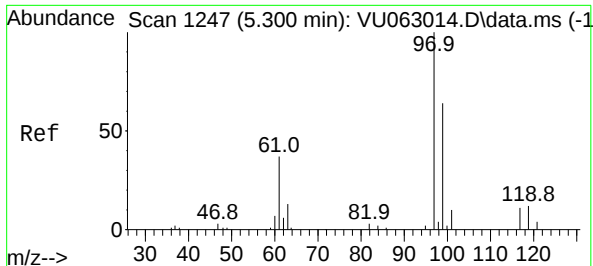
Tgt Ion: 83 Resp: 62369  
Ion Ratio Lower Upper  
83 100  
85 61.4 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 4.818 ug/L  
RT: 5.782 min Scan# 1397  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion: 62 Resp: 42714  
Ion Ratio Lower Upper  
62 100  
98 7.1 5.8 8.6

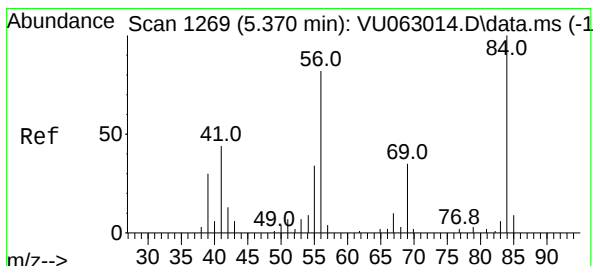
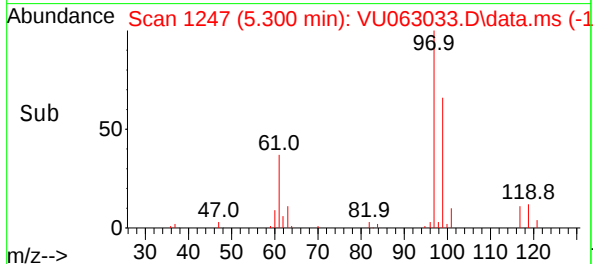
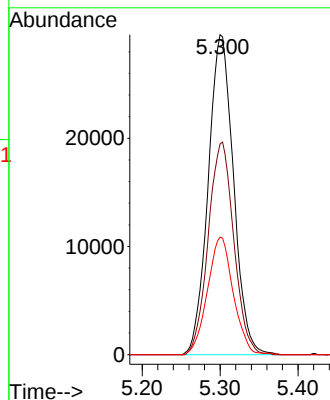
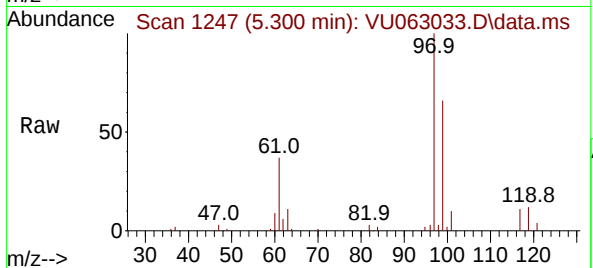




#29  
1,1,1-Trichloroethane  
Concen: 4.984 ug/L  
RT: 5.300 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

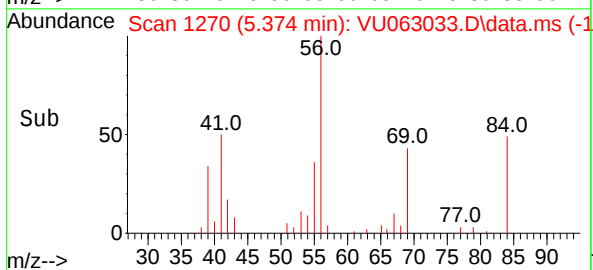
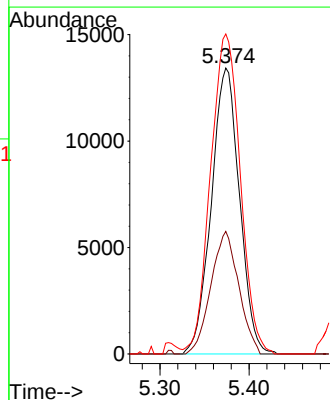
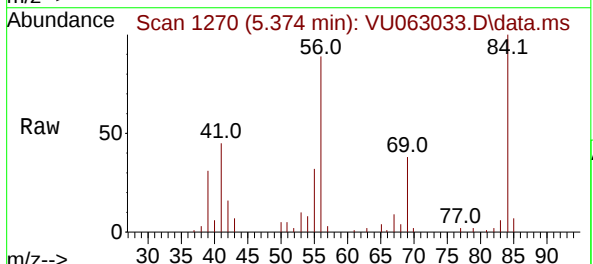
Instrument :  
MSVOA\_U  
ClientSampleId :

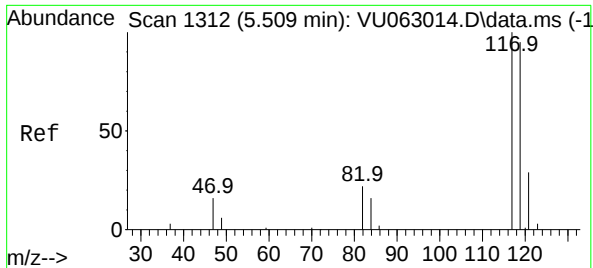
Tgt Ion: 97 Resp: 66802  
Ion Ratio Lower Upper  
97 100  
99 67.1 52.4 78.6  
61 37.5 32.2 48.4



#30  
Cyclohexane  
Concen: 4.725 ug/L  
RT: 5.374 min Scan# 1270  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion: 56 Resp: 29500  
Ion Ratio Lower Upper  
56 100  
69 42.3 28.3 42.5  
84 118.3 76.5 114.7#

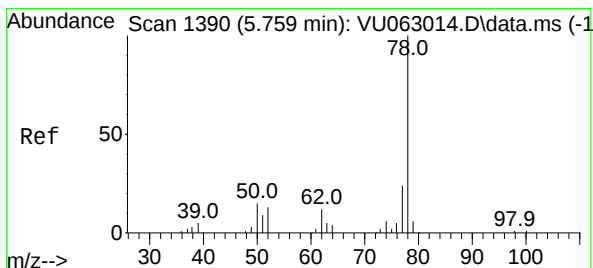
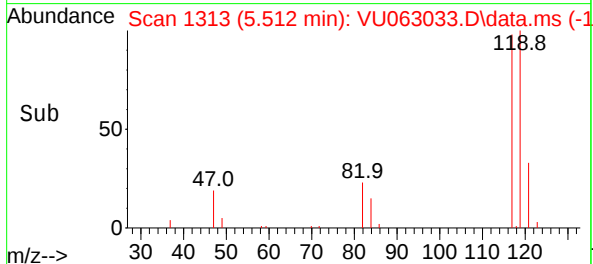
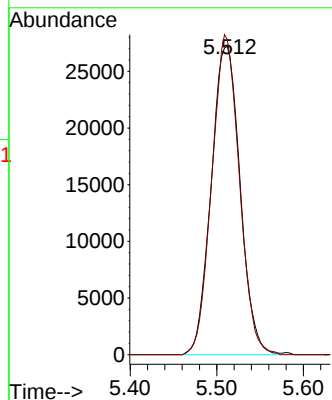
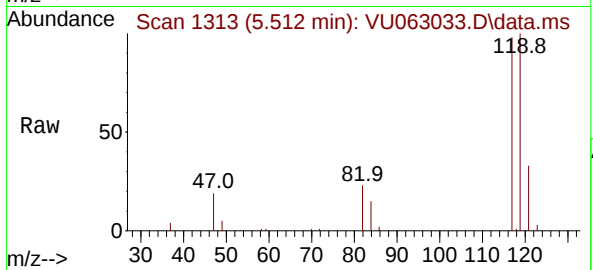




#31  
Carbon tetrachloride  
Concen: 4.882 ug/L  
RT: 5.512 min Scan# 1312  
Delta R.T. 0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

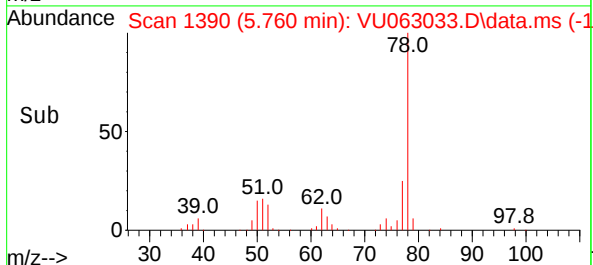
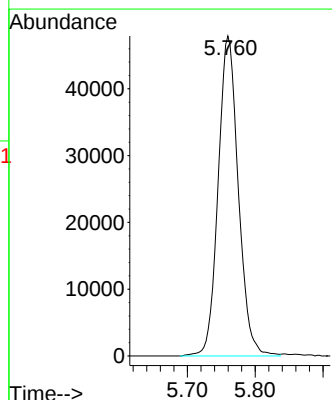
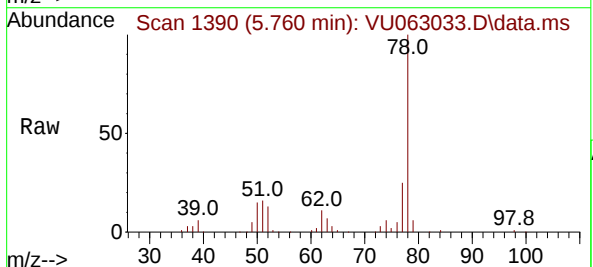
Instrument :  
MSVOA\_U  
ClientSampleId :

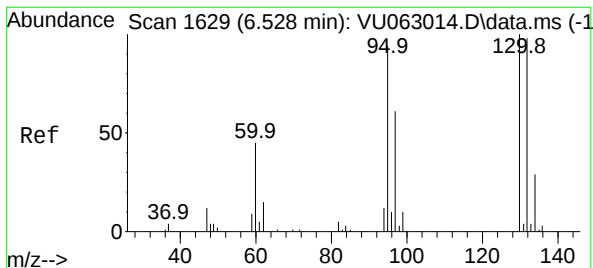
Tgt Ion:117 Resp: 62995  
Ion Ratio Lower Upper  
117 100  
119 99.0 78.6 118.0



#33  
Benzene  
Concen: 4.730 ug/L  
RT: 5.760 min Scan# 1390  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion: 78 Resp: 99056





#34

Trichloroethene

Concen: 4.611 ug/L

RT: 6.531 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 95 Resp: 32808

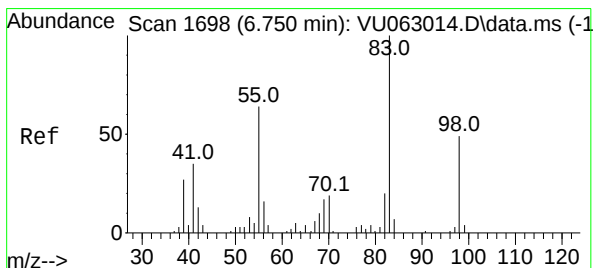
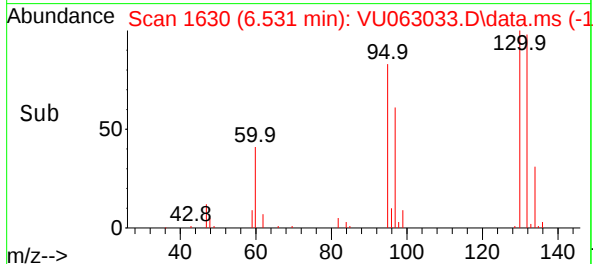
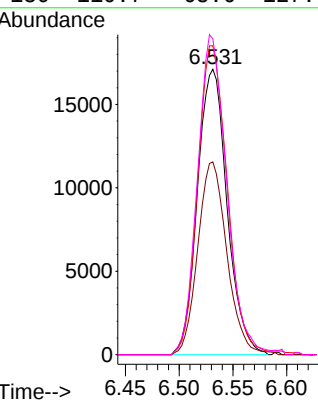
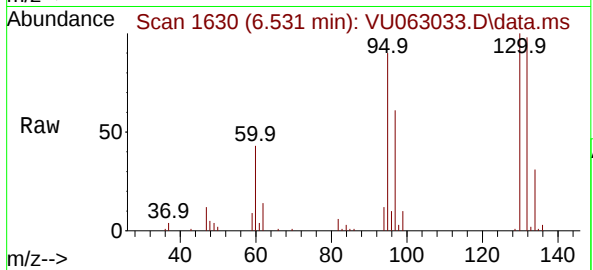
Ion Ratio Lower Upper

95 100

97 67.6 47.5 88.3

132 108.2 66.9 124.3

130 110.7 68.6 127.4



#35

Methylcyclohexane

Concen: 4.666 ug/L

RT: 6.750 min Scan# 1698

Delta R.T. 0.000 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

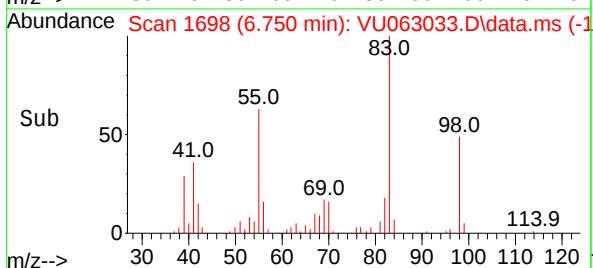
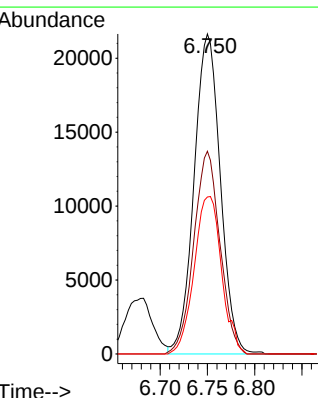
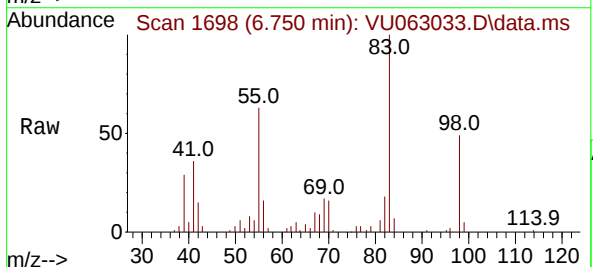
Tgt Ion: 83 Resp: 41836

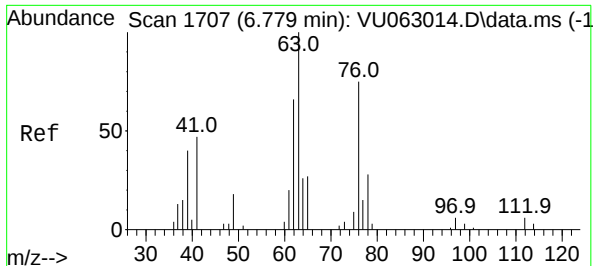
Ion Ratio Lower Upper

83 100

55 63.0 57.2 85.8

98 51.2 36.6 55.0

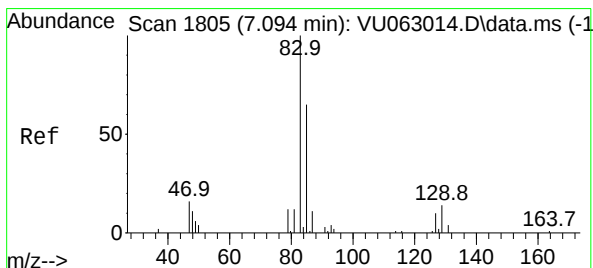
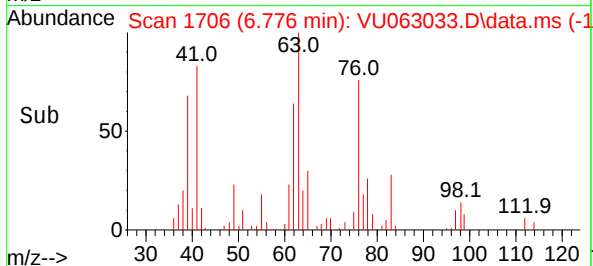
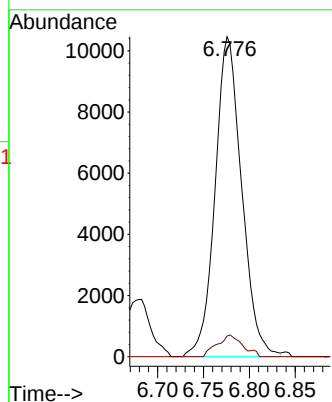
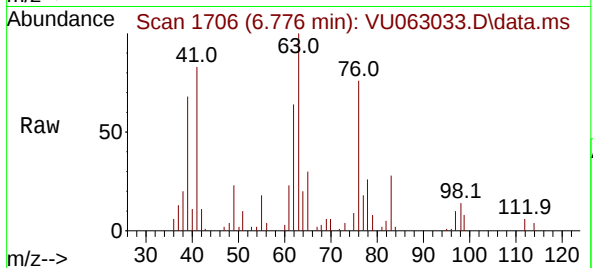




#37  
1,2-Dichloropropane  
Concen: 4.472 ug/L  
RT: 6.776 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

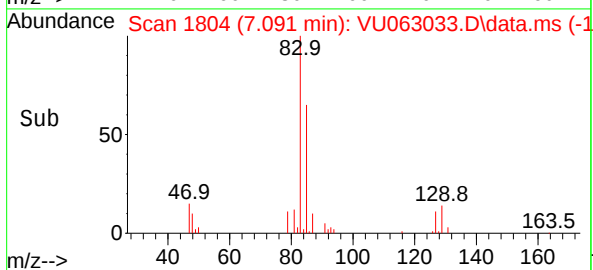
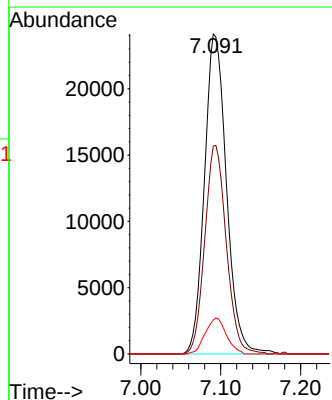
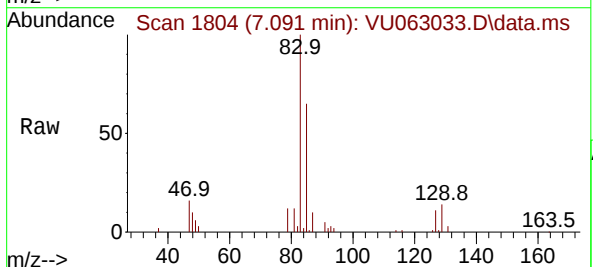
Instrument :  
MSVOA\_U  
ClientSampleId :

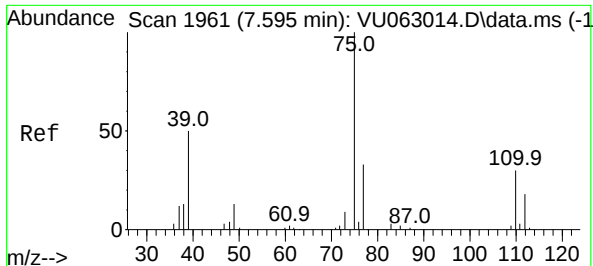
Tgt Ion: 63 Resp: 21061  
Ion Ratio Lower Upper  
63 100  
112 6.5 3.8 5.8#



#38  
Bromodichloromethane  
Concen: 4.902 ug/L  
RT: 7.091 min Scan# 1804  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion: 83 Resp: 46267  
Ion Ratio Lower Upper  
83 100  
85 64.9 44.2 82.0  
127 10.6 7.8 11.8

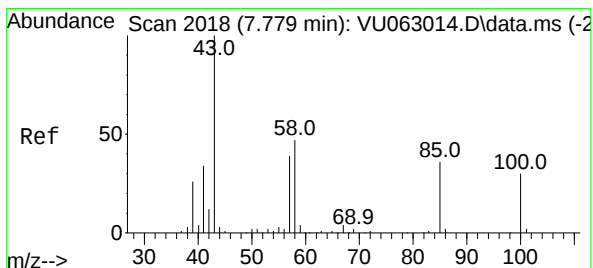
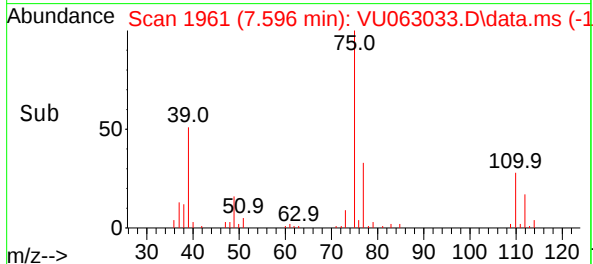
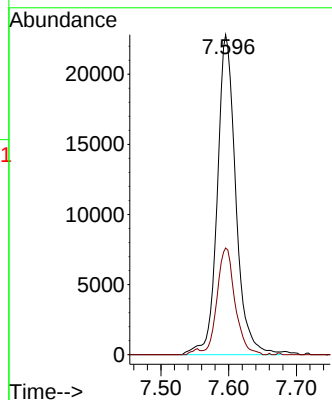
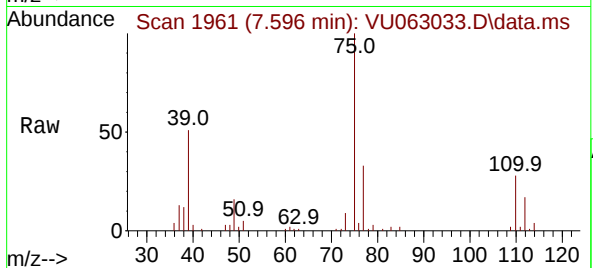




#39  
cis-1,3-Dichloropropene  
Concen: 4.876 ug/L  
RT: 7.596 min Scan# 1961  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

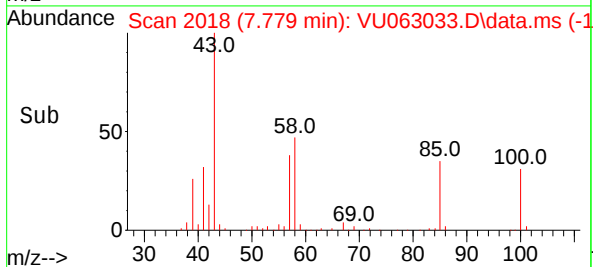
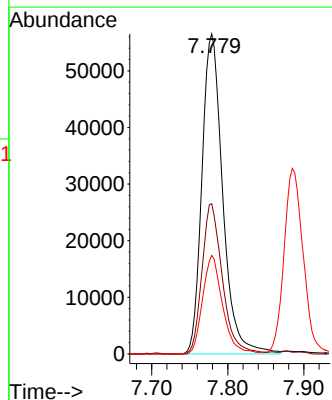
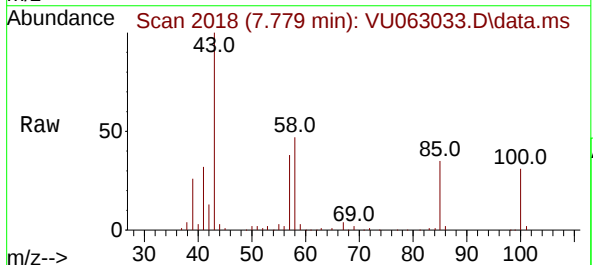
Instrument :  
MSVOA\_U  
ClientSampleId :

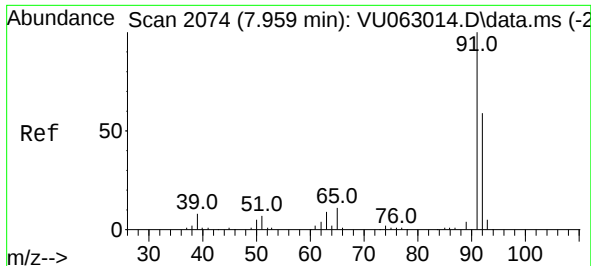
Tgt Ion: 75 Resp: 43239  
Ion Ratio Lower Upper  
75 100  
77 33.4 22.3 41.3



#40  
4-Methyl-2-pentanone  
Concen: 47.313 ug/L  
RT: 7.779 min Scan# 2018  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion: 43 Resp: 107498  
Ion Ratio Lower Upper  
43 100  
58 45.8 35.8 53.8  
100 29.4 16.8 25.2#





#42

Toluene

Concen: 5.005 ug/L

RT: 7.959 min Scan# 2074

Delta R.T. 0.000 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Instrument :

MSVOA\_U

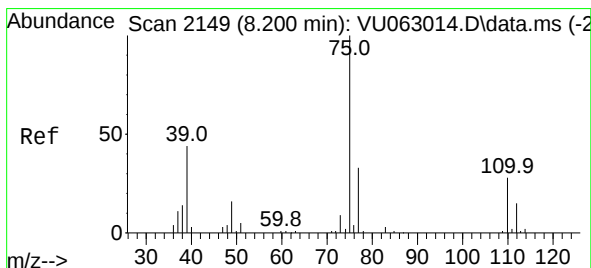
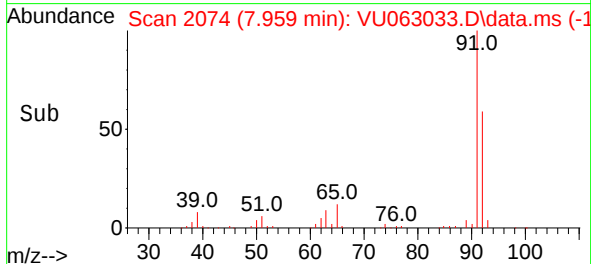
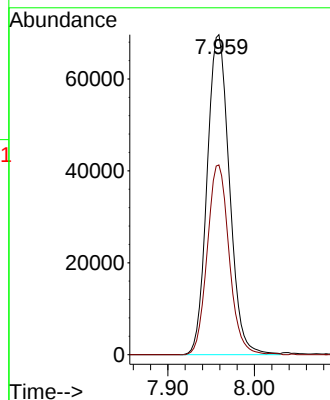
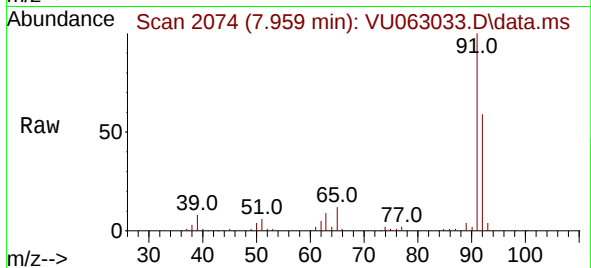
ClientSampleId :

Tgt Ion: 91 Resp: 124577

Ion Ratio Lower Upper

91 100

92 59.3 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 4.960 ug/L

RT: 8.200 min Scan# 2149

Delta R.T. 0.000 min

Lab File: VU063033.D

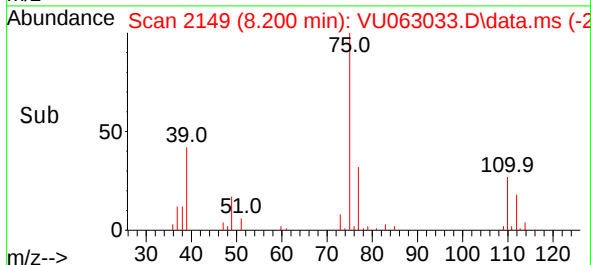
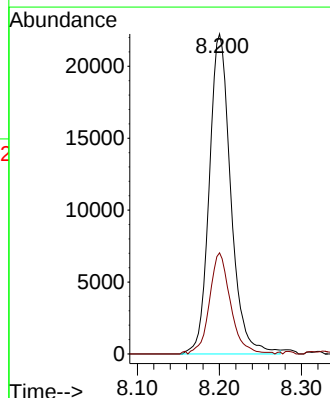
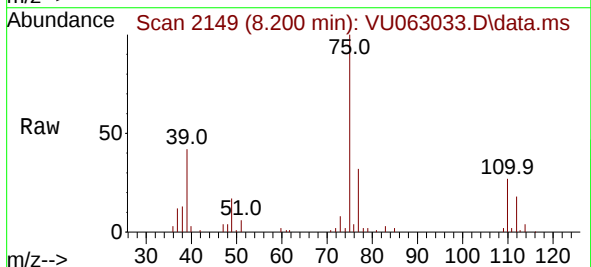
Acq: 27 Jan 2025 22:18

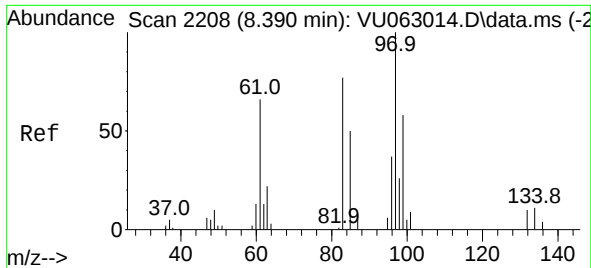
Tgt Ion: 75 Resp: 40509

Ion Ratio Lower Upper

75 100

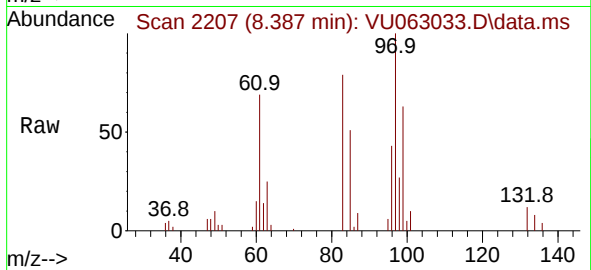
77 31.6 21.8 40.6





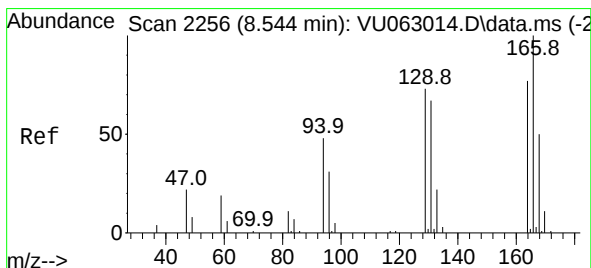
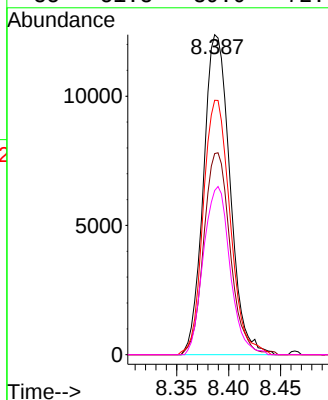
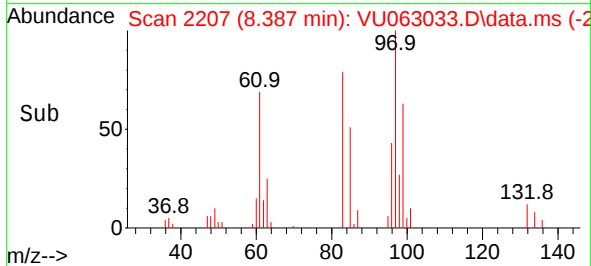
#45  
1,1,2-Trichloroethane  
Concen: 4.960 ug/L  
RT: 8.387 min Scan# 2207  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Instrument :  
MSVOA\_U  
ClientSampleId :

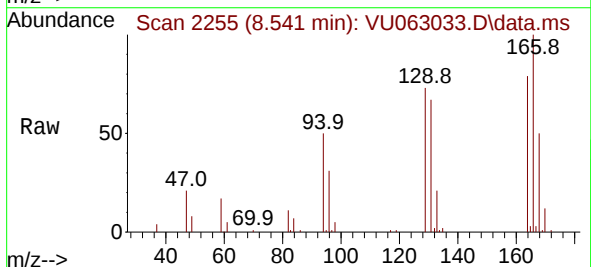


Tgt Ion: 97 Resp: 21986

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 62.9  | 45.6  | 84.6  |
| 83  | 79.5  | 63.0  | 117.0 |
| 85  | 51.3  | 39.0  | 72.4  |

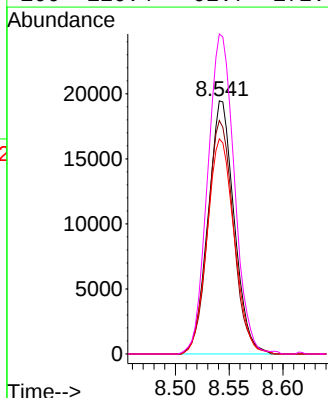
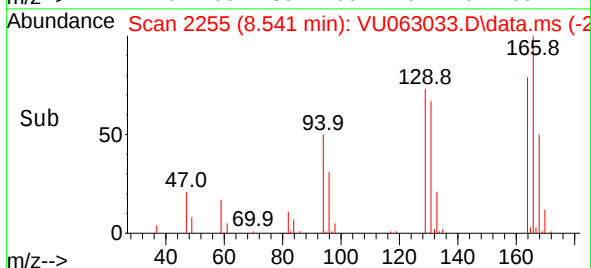


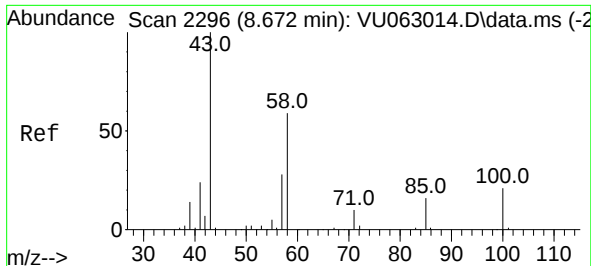
#47  
Tetrachloroethene  
Concen: 5.291 ug/L  
RT: 8.541 min Scan# 2255  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18



Tgt Ion: 164 Resp: 32748

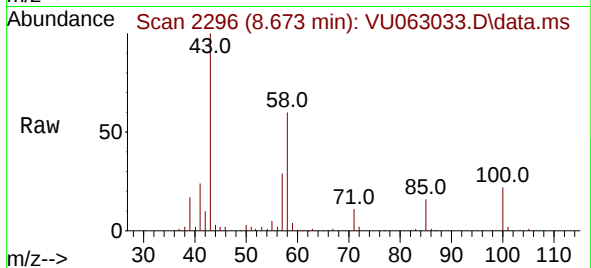
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 92.2  | 71.0  | 131.9 |
| 131 | 84.9  | 69.4  | 129.0 |
| 166 | 126.4 | 92.7  | 172.3 |



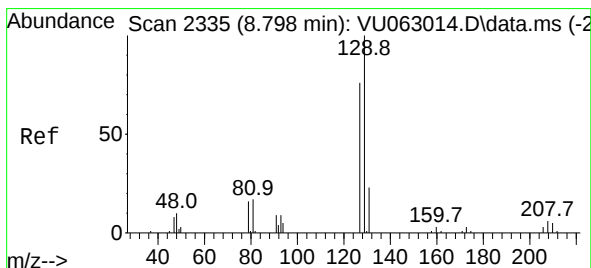
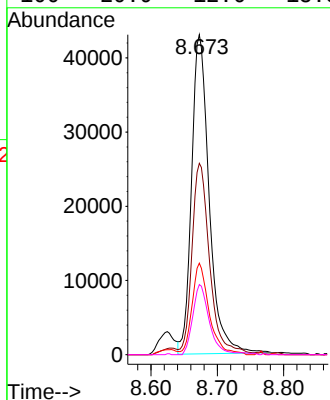
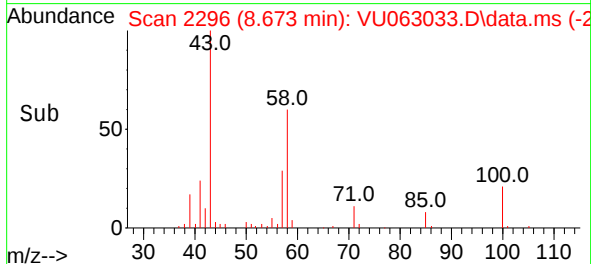


#48  
2-Hexanone  
Concen: 50.313 ug/L  
RT: 8.673 min Scan# 2296  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Instrument :  
MSVOA\_U  
ClientSampleId :

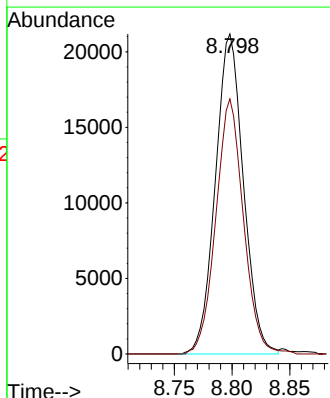
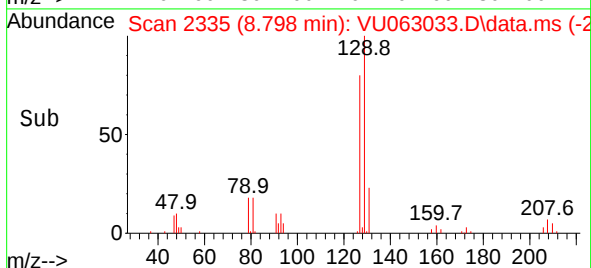
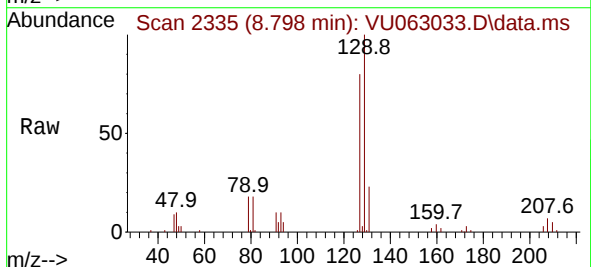


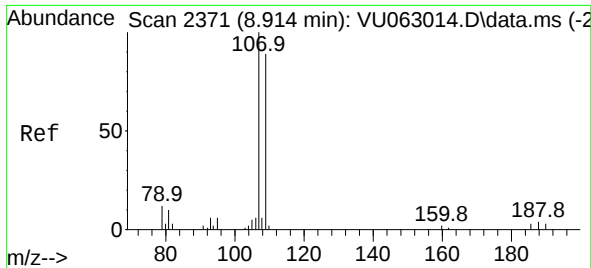
Tgt Ion: 43 Resp: 79290  
Ion Ratio Lower Upper  
43 100  
58 59.0 50.2 75.4  
57 27.7 19.9 29.9  
100 20.9 12.6 18.8#



#49  
Dibromochloromethane  
Concen: 5.172 ug/L  
RT: 8.798 min Scan# 2335  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion: 129 Resp: 35777  
Ion Ratio Lower Upper  
129 100  
127 79.7 52.1 96.9

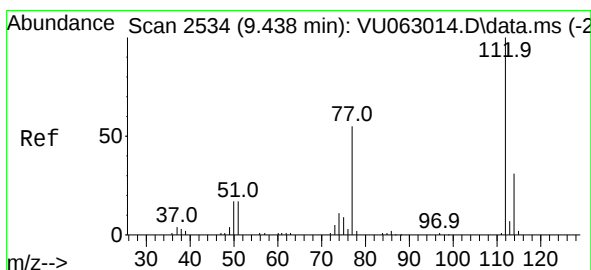
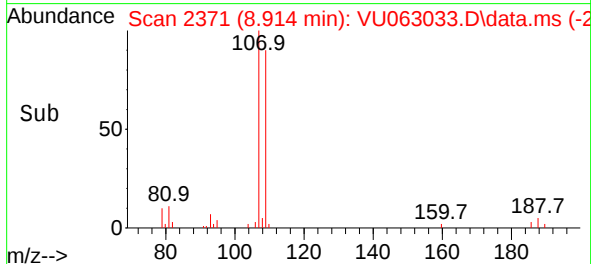
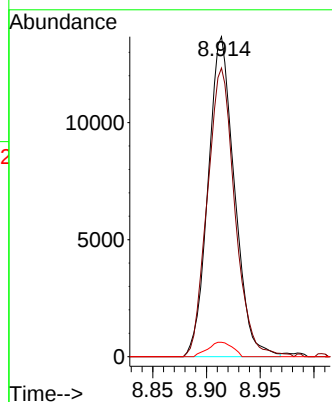
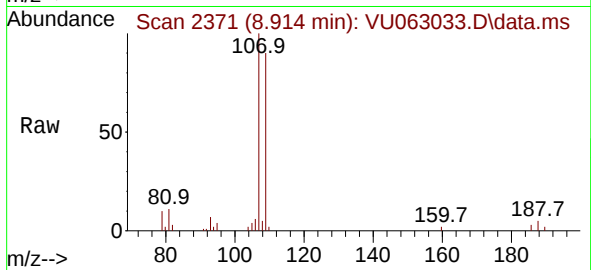




#50  
1,2-Dibromoethane  
Concen: 5.219 ug/L  
RT: 8.914 min Scan# 2371  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

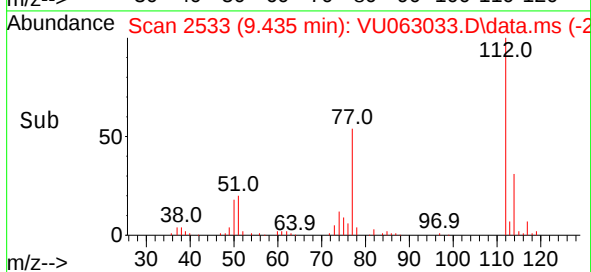
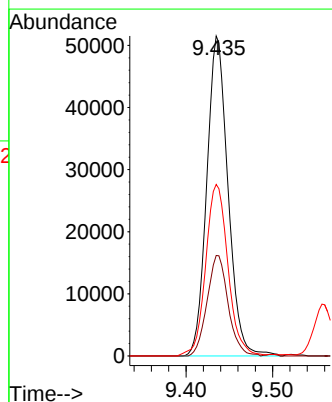
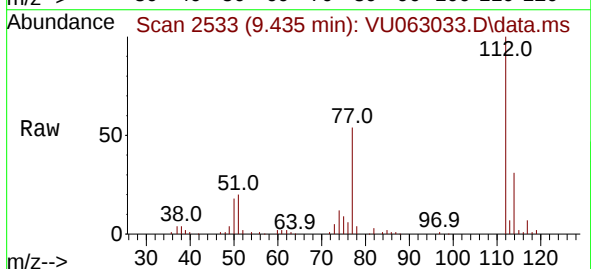
Instrument :  
MSVOA\_U  
ClientSampleId :

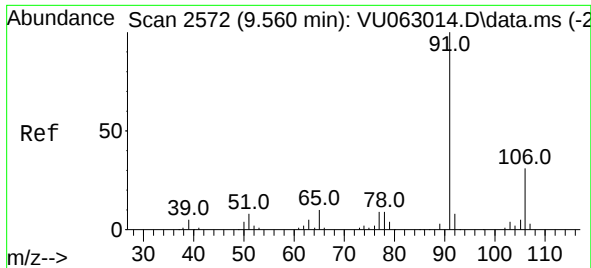
Tgt Ion:107 Resp: 23370  
Ion Ratio Lower Upper  
107 100  
109 90.2 65.7 121.9  
188 4.5 3.4 5.2



#51  
Chlorobenzene  
Concen: 5.089 ug/L  
RT: 9.435 min Scan# 2533  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion:112 Resp: 87833  
Ion Ratio Lower Upper  
112 100  
114 31.4 21.7 40.3  
77 53.6 48.6 73.0

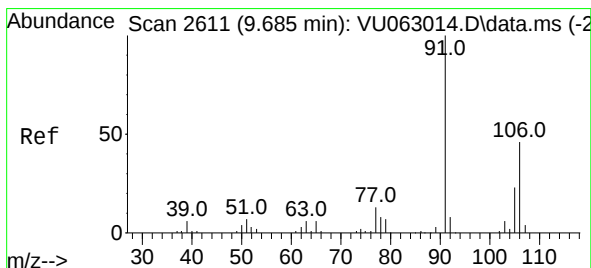
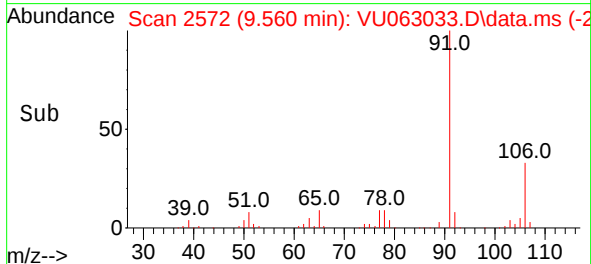
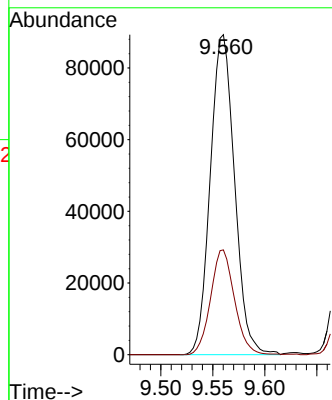
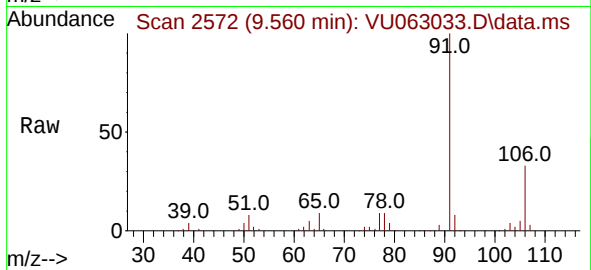




#52  
Ethylbenzene  
Concen: 5.006 ug/L  
RT: 9.560 min Scan# 2572  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

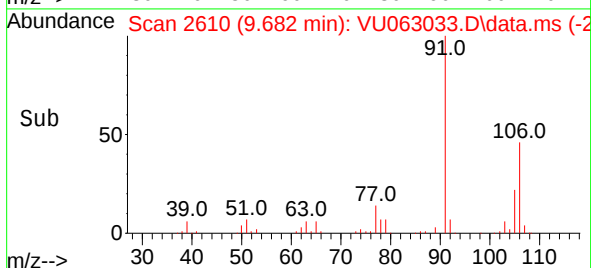
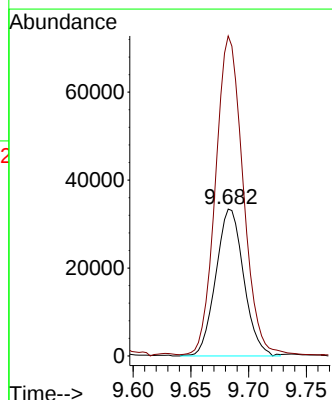
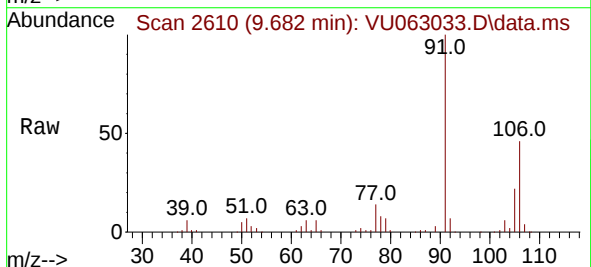
Instrument :  
MSVOA\_U  
ClientSampleId :

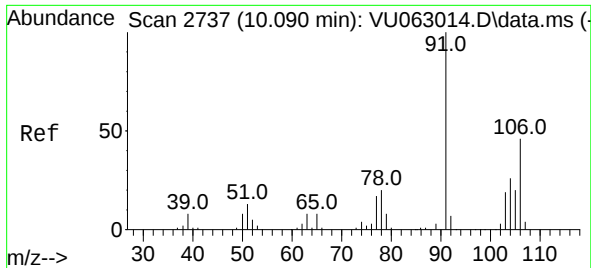
Tgt Ion: 91 Resp: 145204  
Ion Ratio Lower Upper  
91 100  
106 32.8 21.9 40.7



#53  
m,p-Xylene  
Concen: 5.013 ug/L  
RT: 9.682 min Scan# 2610  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion:106 Resp: 56158  
Ion Ratio Lower Upper  
106 100  
91 217.9 153.1 284.3

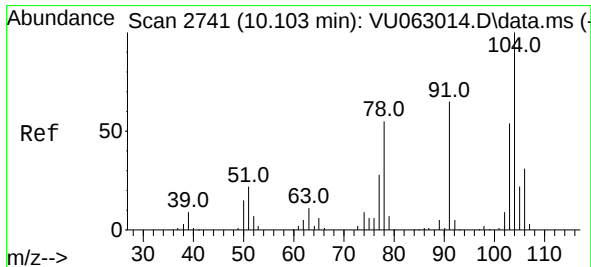
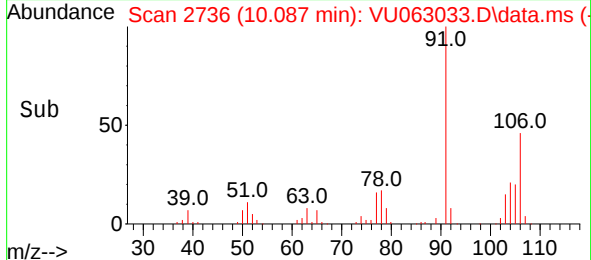
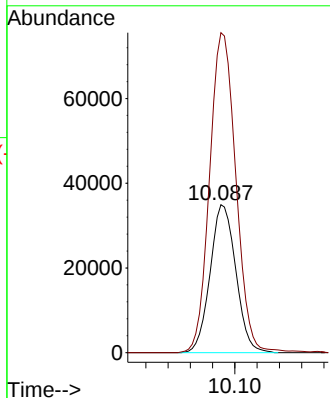
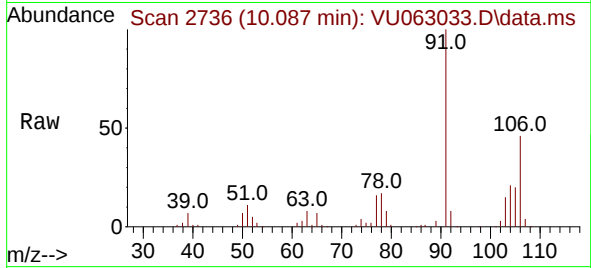




#54  
o-Xylene  
Concen: 5.455 ug/L  
RT: 10.087 min Scan# 2736  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

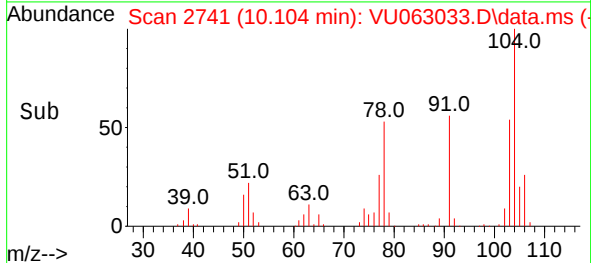
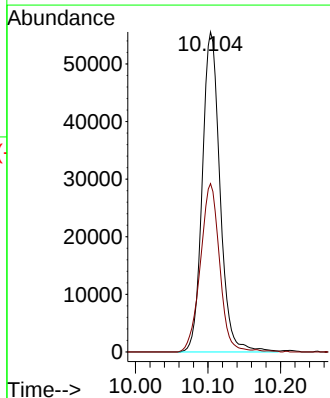
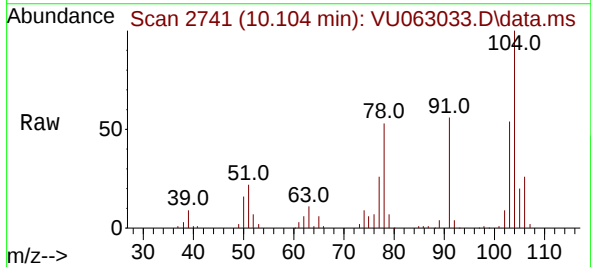
Instrument :  
MSVOA\_U  
ClientSampleId :

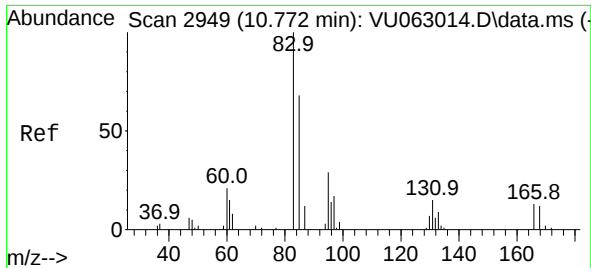
Tgt Ion:106 Resp: 55984  
Ion Ratio Lower Upper  
106 100  
91 216.3 160.4 297.8



#55  
Styrene  
Concen: 5.442 ug/L  
RT: 10.104 min Scan# 2741  
Delta R.T. 0.000 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion:104 Resp: 94418  
Ion Ratio Lower Upper  
104 100  
78 52.6 35.5 65.9





#57

1,1,2,2-Tetrachloroethane

Concen: 4.776 ug/L

RT: 10.769 min Scan# 2948

Delta R.T. -0.003 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Instrument :

MSVOA\_U

ClientSampleId :

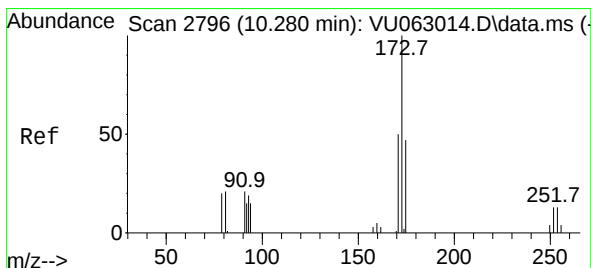
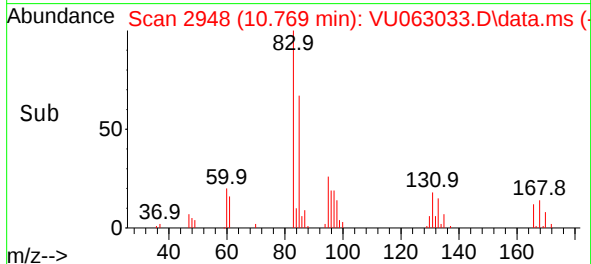
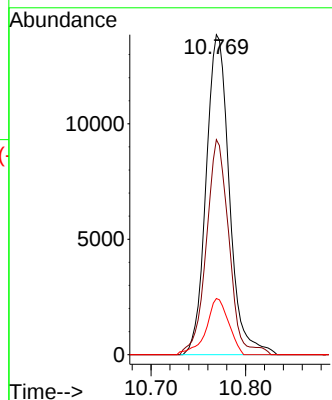
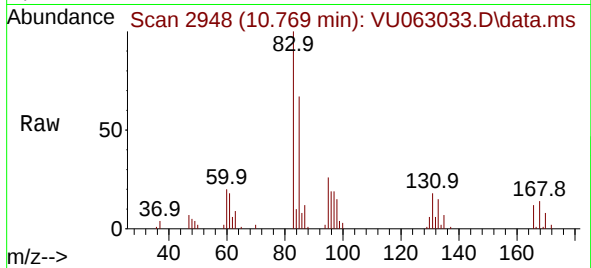
Tgt Ion: 83 Resp: 23684

Ion Ratio Lower Upper

83 100

85 67.2 43.0 79.8

131 17.6 7.4 11.0#



#59

Bromoform

Concen: 4.893 ug/L

RT: 10.280 min Scan# 2796

Delta R.T. 0.000 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

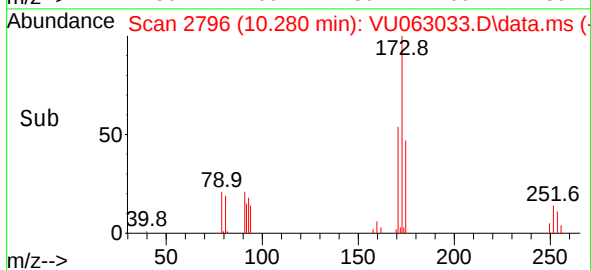
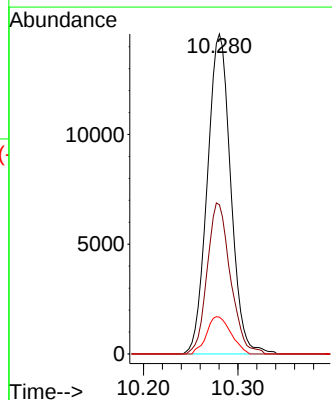
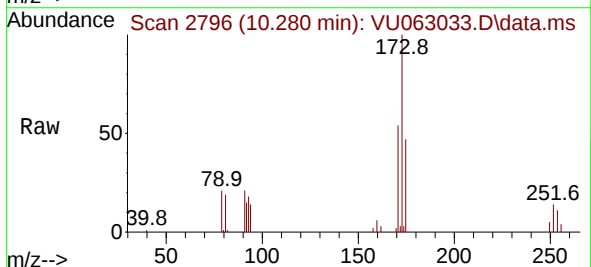
Tgt Ion:173 Resp: 25035

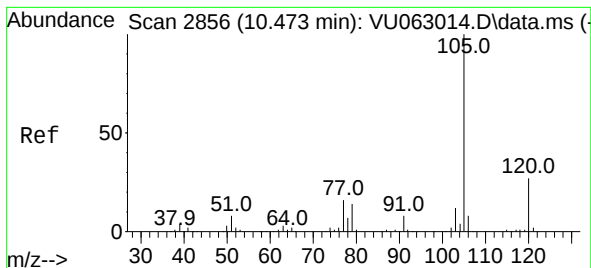
Ion Ratio Lower Upper

173 100

175 46.9 39.8 59.8

254 12.1 8.6 12.8





#60

Isopropylbenzene

Concen: 4.782 ug/L

RT: 10.473 min Scan# 2856

Delta R.T. 0.000 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Instrument :

MSVOA\_U

ClientSampleId :

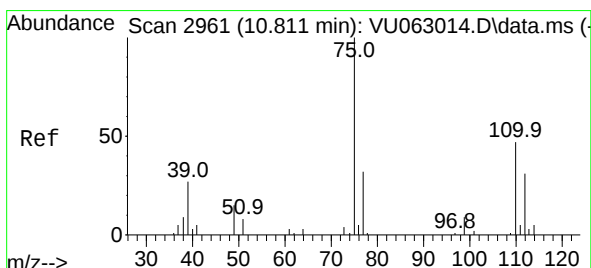
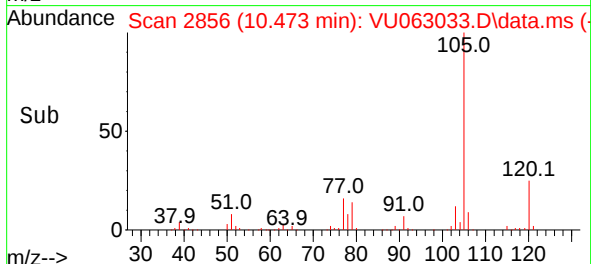
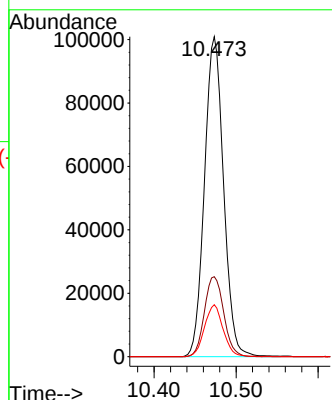
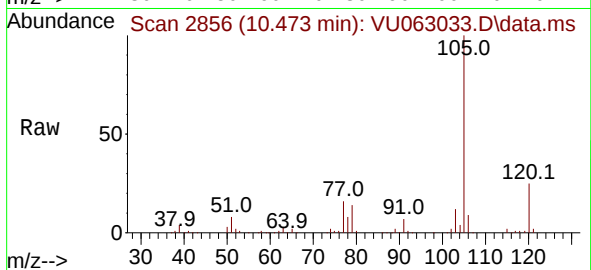
Tgt Ion:105 Resp: 163170

Ion Ratio Lower Upper

105 100

120 25.3 20.2 30.2

77 15.8 13.0 19.4



#61

1,2,3-Trichloropropane

Concen: 4.296 ug/L

RT: 10.811 min Scan# 2961

Delta R.T. 0.000 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

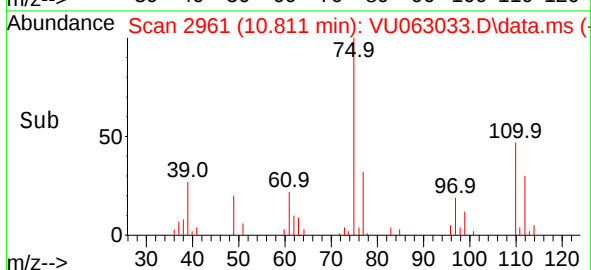
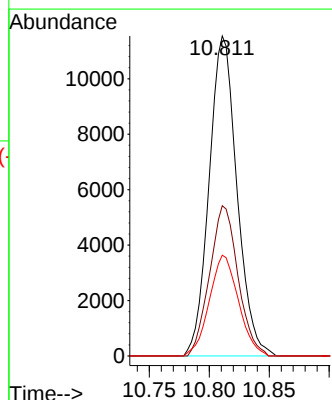
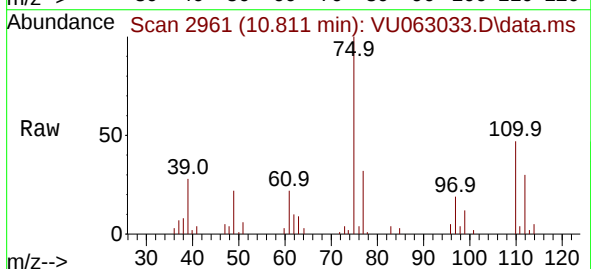
Tgt Ion: 75 Resp: 18615

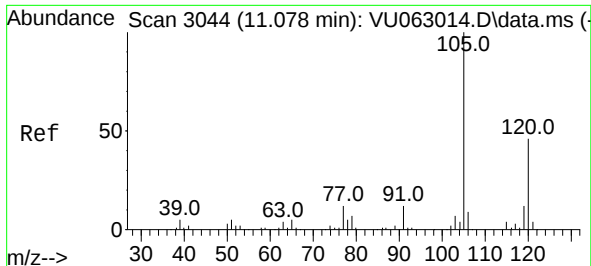
Ion Ratio Lower Upper

75 100

110 47.9 33.2 49.8

77 33.0 25.9 38.9





#62

1,3,5-Trimethylbenzene

Concen: 4.709 ug/L

RT: 11.078 min Scan# 3044

Delta R.T. 0.000 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Instrument :

MSVOA\_U

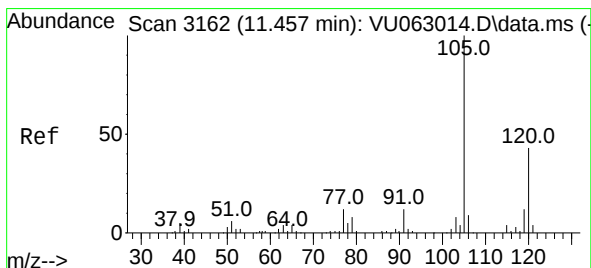
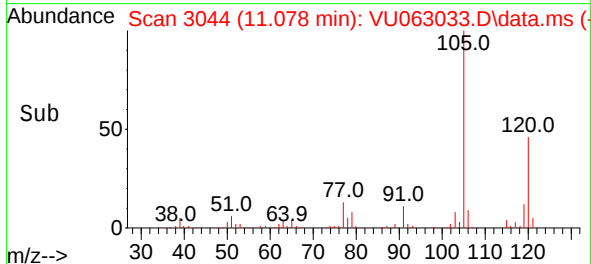
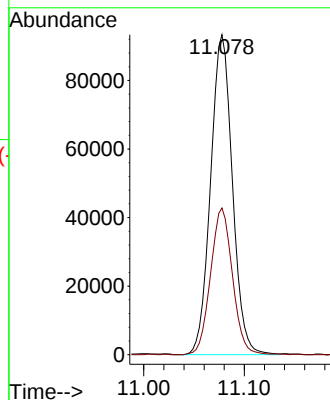
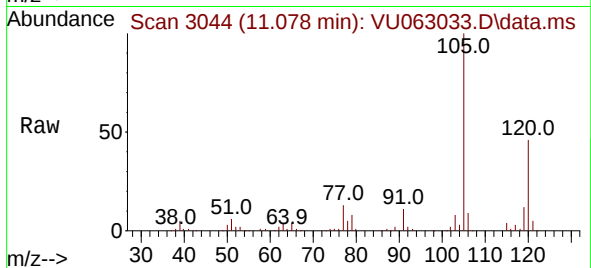
ClientSampleId :

Tgt Ion:105 Resp: 140875

Ion Ratio Lower Upper

105 100

120 46.0 35.9 53.9



#63

1,2,4-Trimethylbenzene

Concen: 5.029 ug/L

RT: 11.457 min Scan# 3162

Delta R.T. 0.000 min

Lab File: VU063033.D

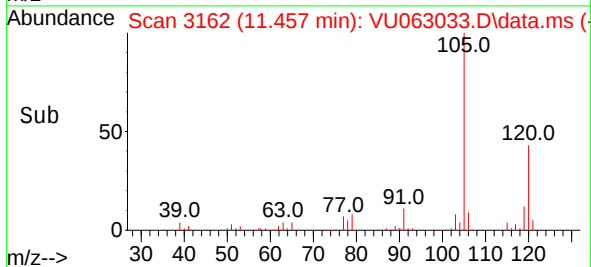
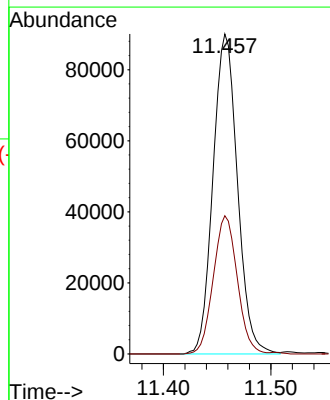
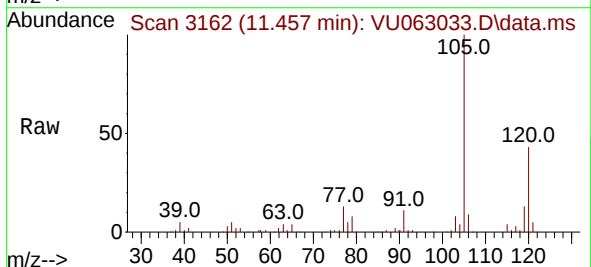
Acq: 27 Jan 2025 22:18

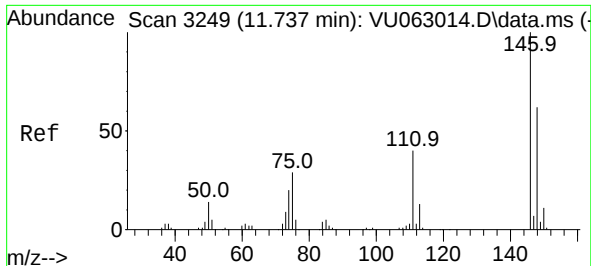
Tgt Ion:105 Resp: 142278

Ion Ratio Lower Upper

105 100

120 42.4 34.2 51.2





#64

1,3-Dichlorobenzene

Concen: 4.856 ug/L

RT: 11.737 min Scan# 3249

Delta R.T. 0.000 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Instrument :

MSVOA\_U

ClientSampleId :

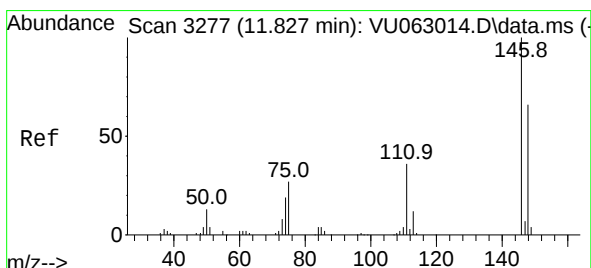
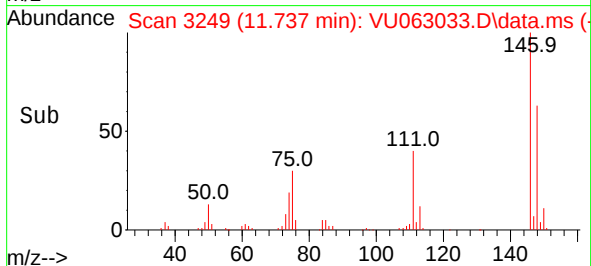
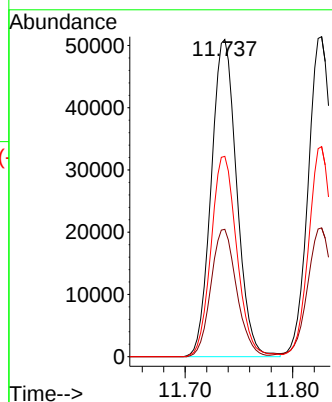
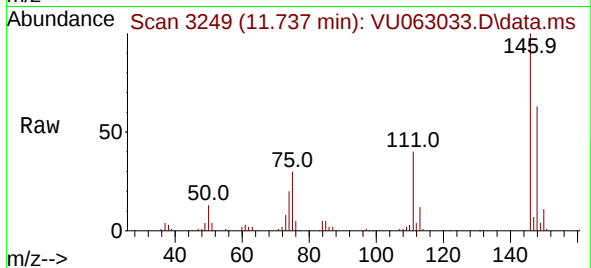
Tgt Ion:146 Resp: 84110

Ion Ratio Lower Upper

146 100

111 40.2 28.6 53.0

148 63.2 44.0 81.6



#65

1,4-Dichlorobenzene

Concen: 4.791 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

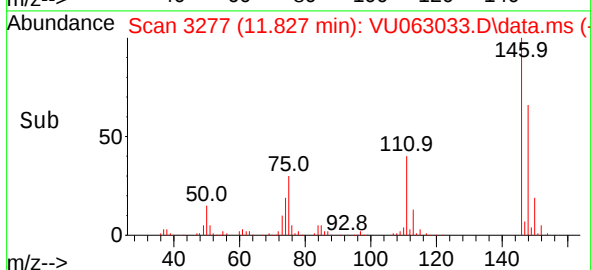
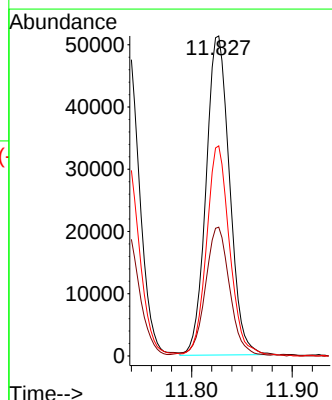
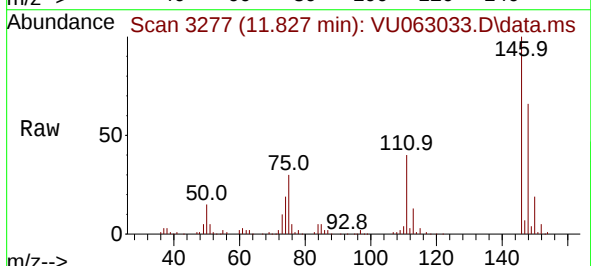
Tgt Ion:146 Resp: 83252

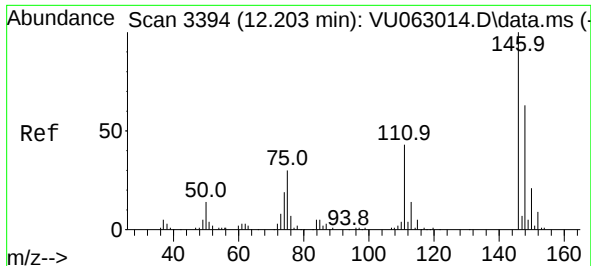
Ion Ratio Lower Upper

146 100

111 40.2 29.5 54.9

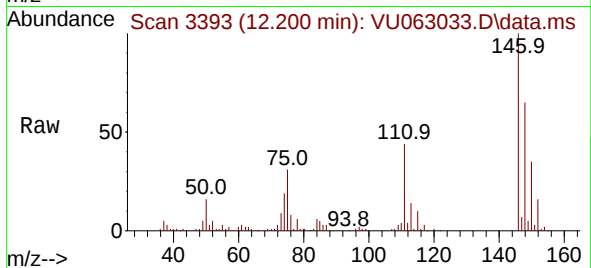
148 65.7 45.1 83.9



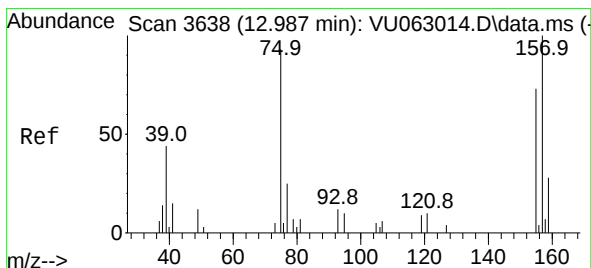
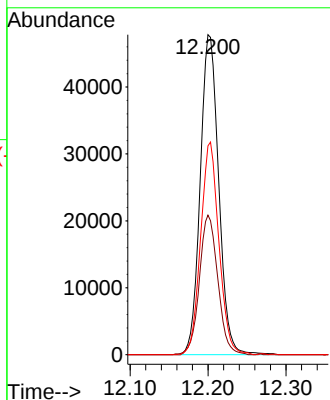
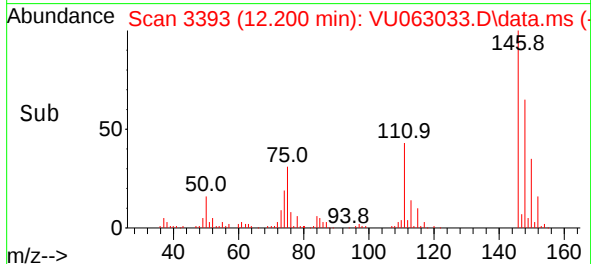


#67  
1,2-Dichlorobenzene  
Concen: 4.831 ug/L  
RT: 12.200 min Scan# 3394  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

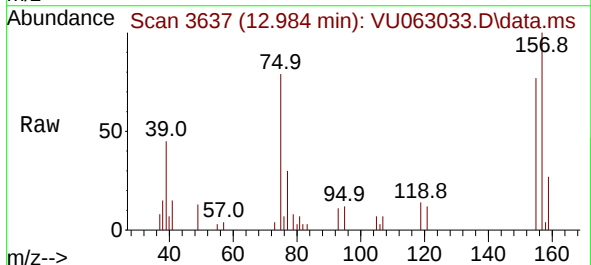
Instrument :  
MSVOA\_U  
ClientSampleId :



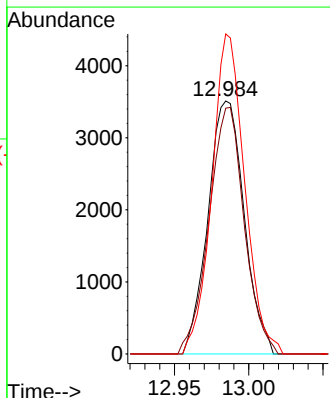
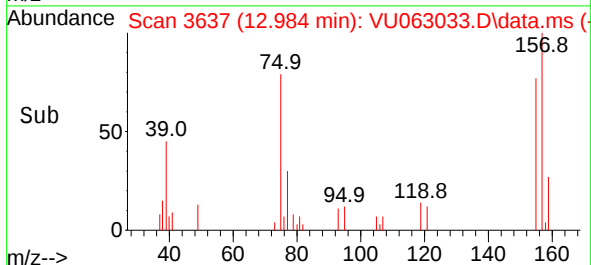
Tgt Ion:146 Resp: 78731  
Ion Ratio Lower Upper  
146 100  
111 43.6 36.3 54.5  
148 65.2 52.0 78.0

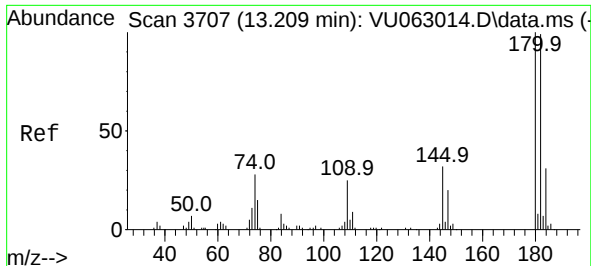


#68  
1,2-Dibromo-3-chloropropane  
Concen: 5.198 ug/L  
RT: 12.984 min Scan# 3637  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18



Tgt Ion: 75 Resp: 5956  
Ion Ratio Lower Upper  
75 100  
155 97.2 59.6 89.4#  
157 126.5 70.8 106.2#





#69

1,3,5-Trichlorobenzene

Concen: 5.230 ug/L

RT: 13.209 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion:180 Resp: 72374

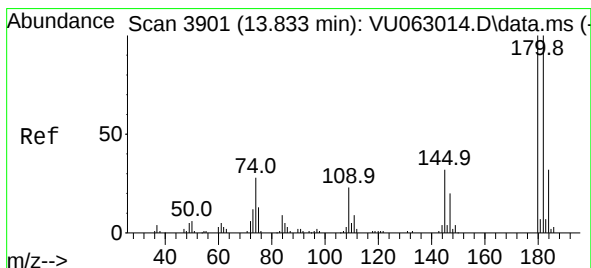
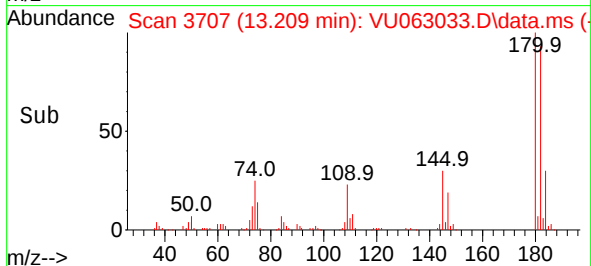
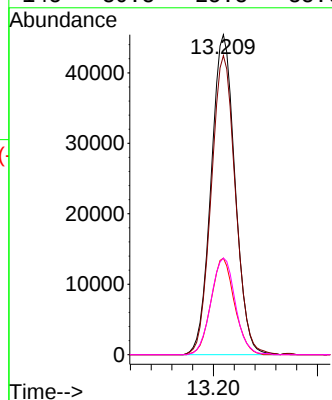
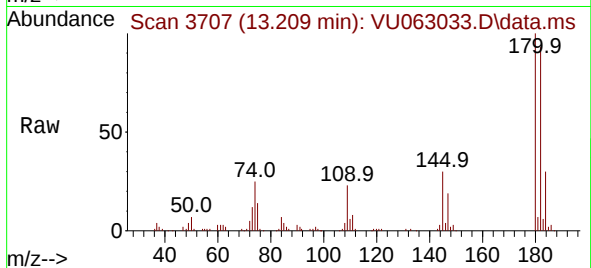
Ion Ratio Lower Upper

180 100

182 94.5 75.8 113.8

184 29.7 24.7 37.1

145 30.8 25.8 38.6



#70

1,2,4-trichlorobenzene

Concen: 5.635 ug/L

RT: 13.830 min Scan# 3900

Delta R.T. -0.003 min

Lab File: VU063033.D

Acq: 27 Jan 2025 22:18

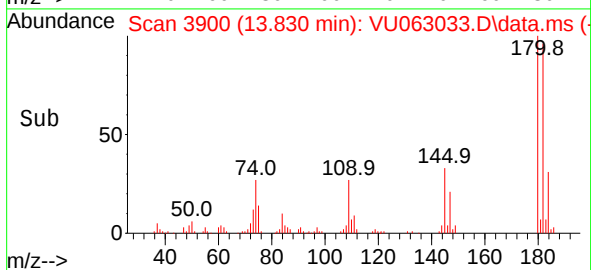
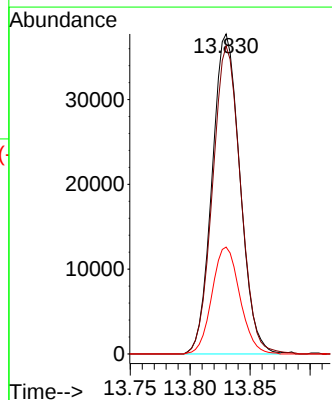
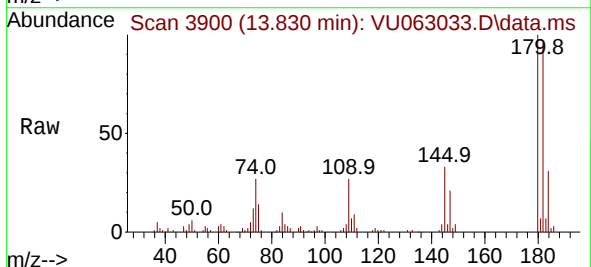
Tgt Ion:180 Resp: 61022

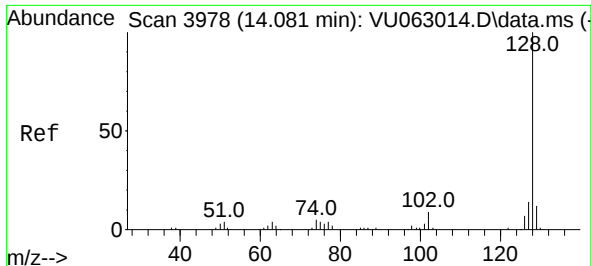
Ion Ratio Lower Upper

180 100

182 96.1 77.1 115.7

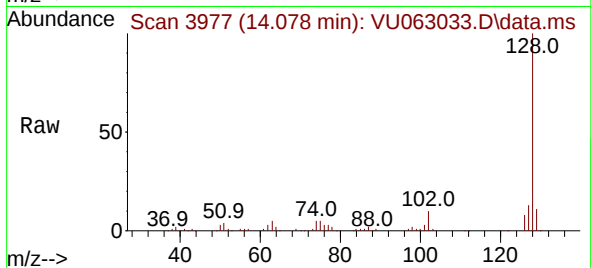
145 33.4 26.9 40.3



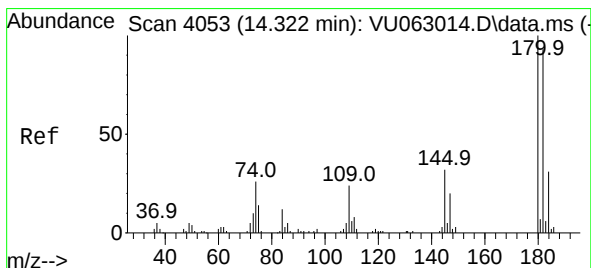
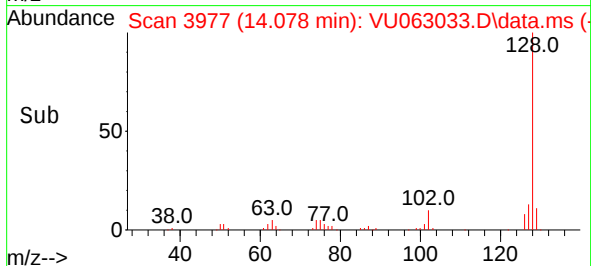
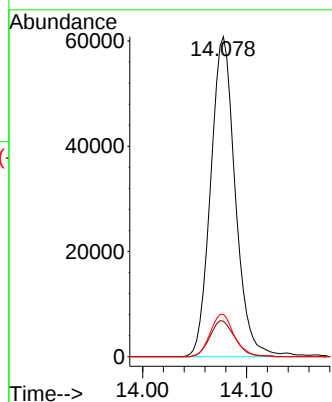


#71  
Naphthalene  
Concen: 7.173 ug/L  
RT: 14.078 min Scan# 3977  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 99683  
Ion Ratio Lower Upper  
128 100  
129 11.5 8.5 12.7  
127 13.0 10.2 15.2



#72  
1,2,3-Trichlorobenzene  
Concen: 5.878 ug/L  
RT: 14.319 min Scan# 4052  
Delta R.T. -0.003 min  
Lab File: VU063033.D  
Acq: 27 Jan 2025 22:18

Tgt Ion:180 Resp: 55001  
Ion Ratio Lower Upper  
180 100  
182 96.9 79.8 119.6  
145 33.7 29.2 43.8

