

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062223\  
 Data File : VU054665.D  
 Acq On : 22 Jun 2023 18:51  
 Operator : MD/SY  
 Sample : 03384-03MSD  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YBW82MSD

Quant Time: Jun 23 04:37:23 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR060723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jun 23 04:31:37 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 305690   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 292451   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 152552   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.599  | 65    | 101772   | 5.231    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 104.600% |
| 7) Chloroethane-d5            | 1.914  | 69    | 83949    | 4.609    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 92.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 39869    | 4.588    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 91.800%  |
| 20) 2-Butanone-d5             | 4.631  | 46    | 249810   | 45.671   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 91.340%  |
| 24) Chloroform-d              | 5.058  | 84    | 176731   | 4.346    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.698  | 65    | 85146    | 4.295    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 86.000%  |
| 32) Benzene-d6                | 5.724  | 84    | 341876   | 4.205    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 84.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67    | 114047   | 4.201    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 84.000%  |
| 41) Toluene-d8                | 7.894  | 98    | 304571   | 4.221    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 84.400%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 42828    | 4.536    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 90.800%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 173784   | 43.875   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 87.740%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84    | 86321    | 4.264    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 85.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 105038   | 4.082    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 81.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 110373   | 3.864    | ug/L   | 99       |
| 3) Chloromethane              | 1.522  | 50    | 136931   | 4.173    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.605  | 62    | 142569   | 4.233    | ug/L   | 100      |
| 6) Bromomethane               | 1.859  | 94    | 75530    | 4.079    | ug/L   | 99       |
| 8) Chloroethane               | 1.933  | 64    | 90437    | 4.480    | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.136  | 101   | 187096   | 4.519    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.579  | 101   | 109870   | 4.536    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.579  | 96    | 97065    | 4.378    | ug/L   | 91       |
| 13) Acetone                   | 2.644  | 43    | 207608   | 40.255   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.792  | 76    | 239358   | 3.640    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.956  | 43    | 43696    | 4.572    | ug/L   | 95       |
| 16) Methylene chloride        | 3.042  | 84    | 115485   | 3.704    | ug/L   | 95       |
| 17) Methyl tert-butyl Ether   | 3.361  | 73    | 255675   | 4.672    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.351  | 96    | 97135    | 4.243    | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.866  | 63    | 231638   | 4.890    | ug/L   | 99       |
| 21) 2-Butanone                | 4.708  | 43    | 331674   | 49.554   | ug/L   | 97       |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96    | 120590   | 4.626    | ug/L   | 98       |
| 23) Bromochloromethane        | 4.968  | 128   | 49989    | 4.608    | ug/L   | 98       |
| 25) Chloroform                | 5.084  | 83    | 225132   | 4.820    | ug/L   | 96       |

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 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

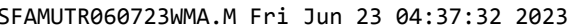
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YBW82MSD

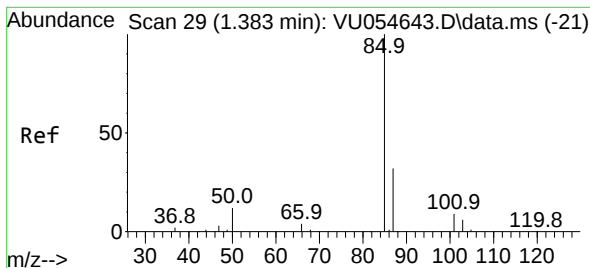
Quant Time: Jun 23 04:37:23 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR060723WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jun 23 04:31:37 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.788  | 62   | 132992   | 4.858  | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane     | 5.312  | 97   | 185253   | 4.671  | ug/L   | 97       |
| 30) Cyclohexane               | 5.383  | 56   | 173689   | 4.021  | ug/L   | 98       |
| 31) Carbon tetrachloride      | 5.521  | 117  | 153804   | 4.501  | ug/L   | 100      |
| 33) Benzene                   | 5.769  | 78   | 474175   | 4.511  | ug/L   | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 120593   | 4.339  | ug/L   | 93       |
| 35) Methylcyclohexane         | 6.759  | 83   | 161289   | 3.839  | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 137658   | 4.844  | ug/L   | 100      |
| 38) Bromodichloromethane      | 7.100  | 83   | 156283   | 4.858  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 179922   | 4.637  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.785  | 43   | 789445   | 52.055 | ug/L   | 97       |
| 42) Toluene                   | 7.965  | 91   | 505841   | 4.673  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 149044   | 4.733  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 8.396  | 97   | 88529    | 4.897  | ug/L   | 98       |
| 47) Tetrachloroethene         | 8.550  | 164  | 83669    | 3.933  | ug/L   | 98       |
| 48) 2-Hexanone                | 8.679  | 43   | 569098   | 50.362 | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.804  | 129  | 92614    | 4.879  | ug/L   | 100      |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 77825    | 4.689  | ug/L # | 99       |
| 51) Chlorobenzene             | 9.441  | 112  | 304027   | 4.506  | ug/L   | 98       |
| 52) Ethylbenzene              | 9.566  | 91   | 531628   | 4.497  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.688  | 106  | 198229   | 4.565  | ug/L   | 100      |
| 54) o-Xylene                  | 10.097 | 106  | 192590   | 4.586  | ug/L   | 97       |
| 55) Styrene                   | 10.110 | 104  | 336581   | 4.775  | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 113886   | 4.959  | ug/L   | 99       |
| 59) Bromoform                 | 10.287 | 173  | 53107    | 4.849  | ug/L   | 100      |
| 60) Isopropylbenzene          | 10.479 | 105  | 526657   | 4.719  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.817 | 75   | 77190    | 5.007  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 414145   | 4.548  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 427050   | 4.618  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 247642   | 4.747  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 246552   | 4.709  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 228213   | 4.757  | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 18021    | 5.319  | ug/L   | 89       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 180404   | 4.584  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.833 | 180  | 149835   | 4.604  | ug/L   | 100      |
| 71) Naphthalene               | 14.081 | 128  | 244813   | 4.626  | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 134670   | 4.817  | ug/L   | 99       |

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

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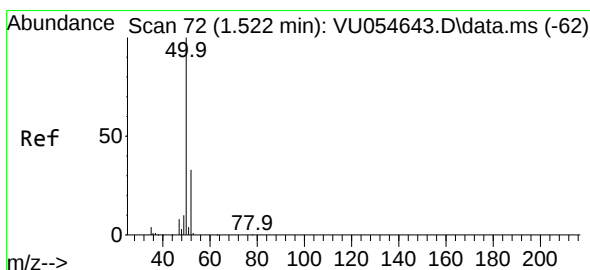
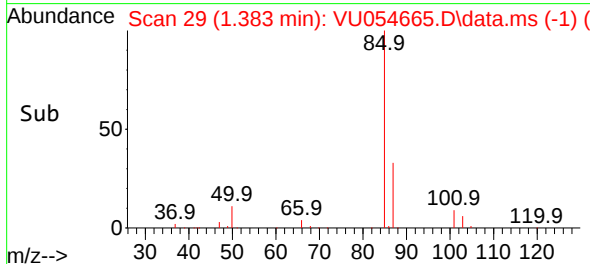
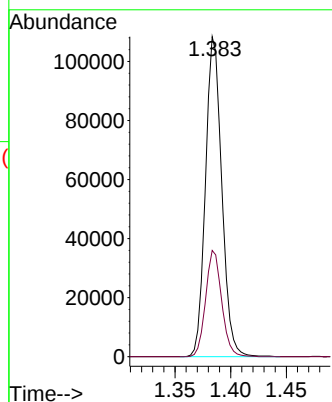
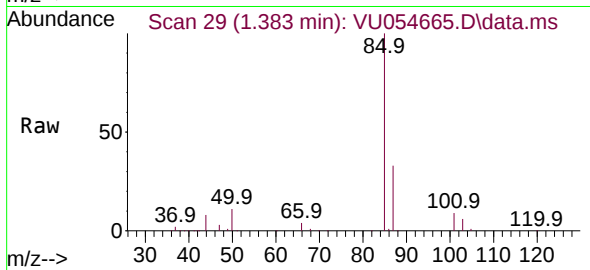




#2  
Dichlorodifluoromethane  
Concen: 3.864 ug/L  
RT: 1.383 min Scan# 29  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

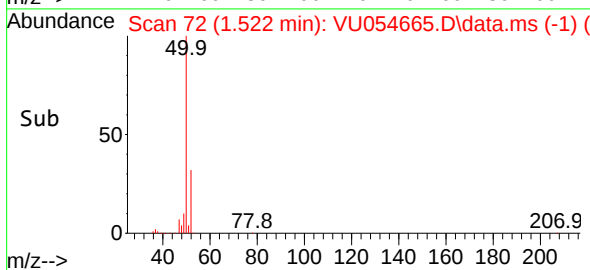
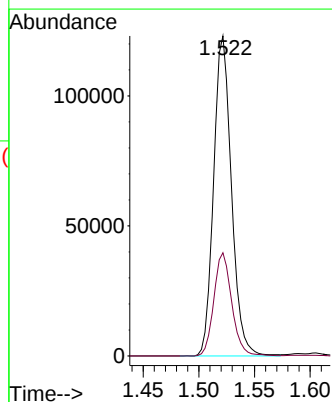
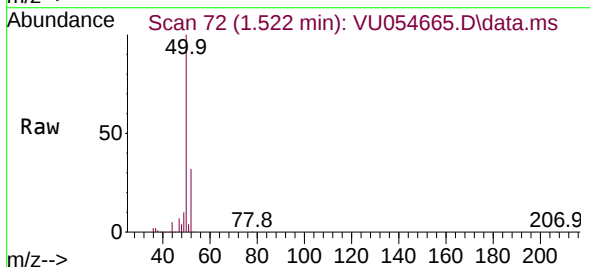
Instrument :  
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ClientSampleId :  
YBW82MSD

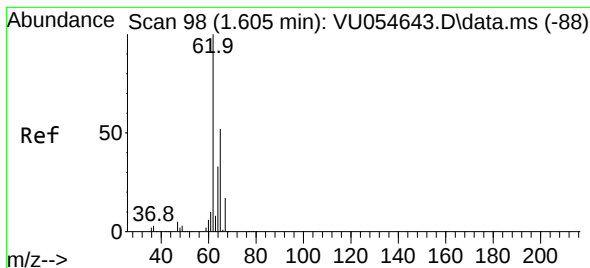
Tgt Ion: 85 Resp: 110373  
Ion Ratio Lower Upper  
85 100  
87 32.6 25.4 38.2



#3  
Chloromethane  
Concen: 4.173 ug/L  
RT: 1.522 min Scan# 72  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion: 50 Resp: 136931  
Ion Ratio Lower Upper  
50 100  
52 32.3 23.4 43.4





#5

Vinyl chloride

Concen: 4.233 ug/L

RT: 1.605 min Scan# 98

Delta R.T. 0.000 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

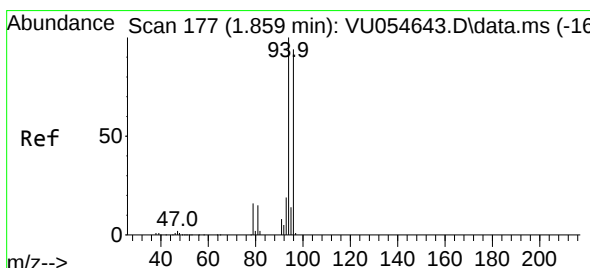
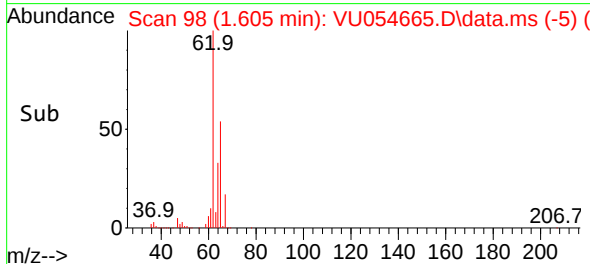
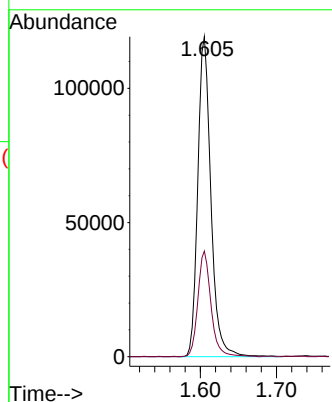
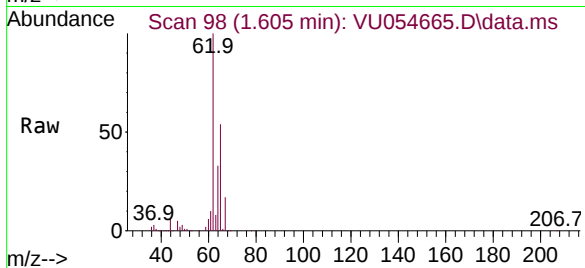
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Tgt Ion: 62 Resp: 142569

Ion Ratio Lower Upper

62 100

64 33.0 23.0 42.6



#6

Bromomethane

Concen: 4.079 ug/L

RT: 1.859 min Scan# 177

Delta R.T. 0.000 min

Lab File: VU054665.D

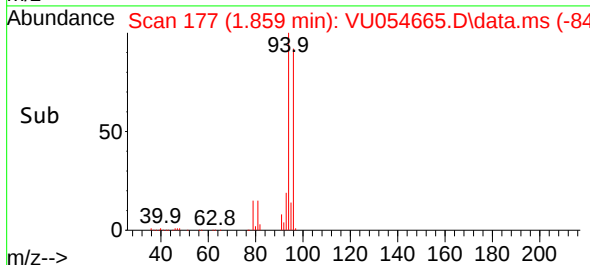
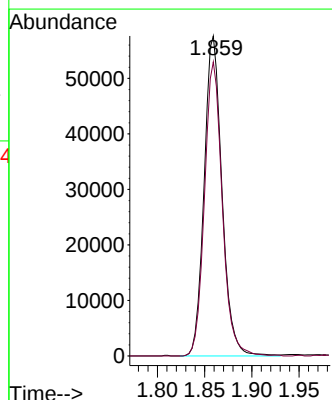
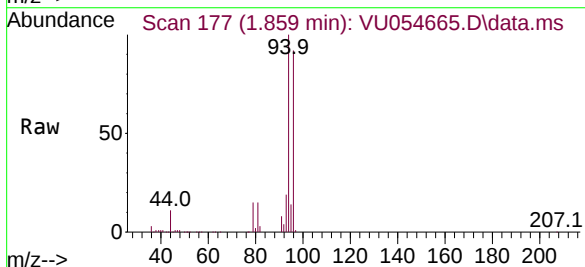
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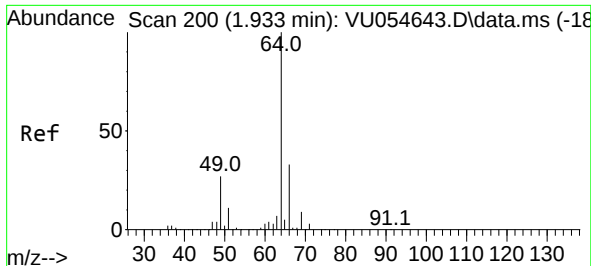
Tgt Ion: 94 Resp: 75530

Ion Ratio Lower Upper

94 100

96 91.9 63.6 118.2





#8

Chloroethane

Concen: 4.480 ug/L

RT: 1.933 min Scan# 200

Delta R.T. 0.000 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

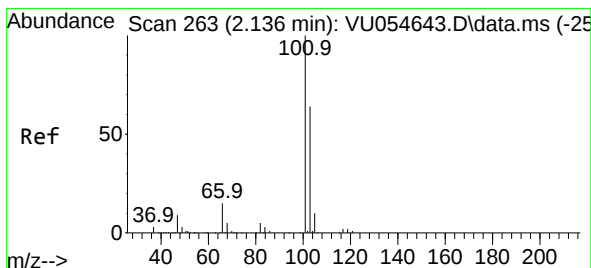
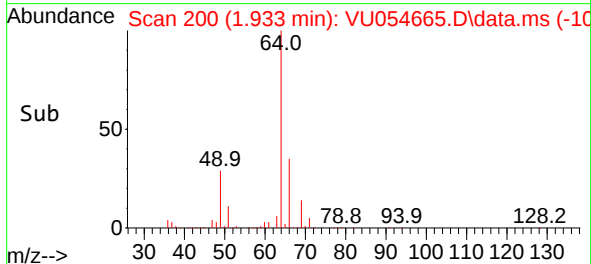
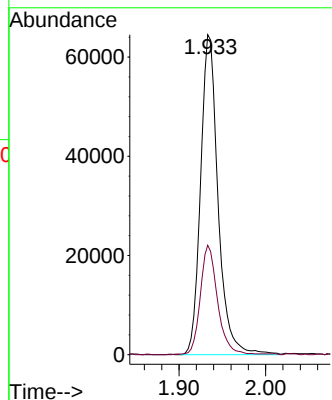
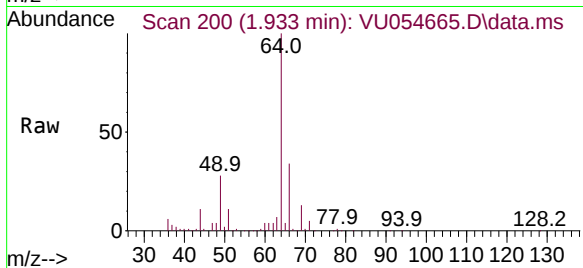
YBW82MSD

Tgt Ion: 64 Resp: 90437

Ion Ratio Lower Upper

64 100

66 34.2 22.9 42.5



#9

Trichlorofluoromethane

Concen: 4.519 ug/L

RT: 2.136 min Scan# 263

Delta R.T. 0.000 min

Lab File: VU054665.D

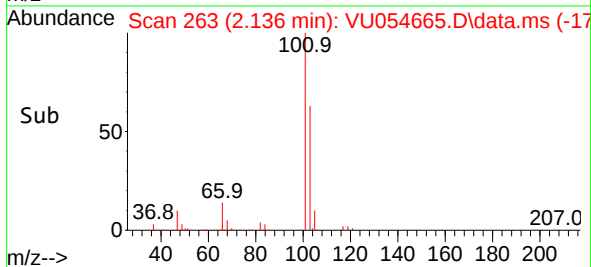
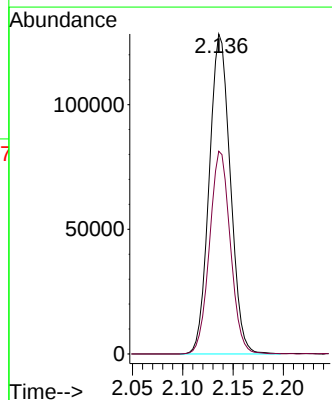
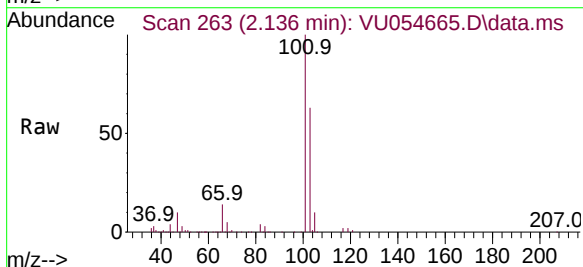
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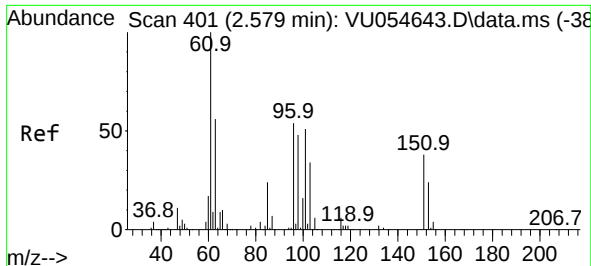
Tgt Ion:101 Resp: 187096

Ion Ratio Lower Upper

101 100

103 62.6 50.6 75.8

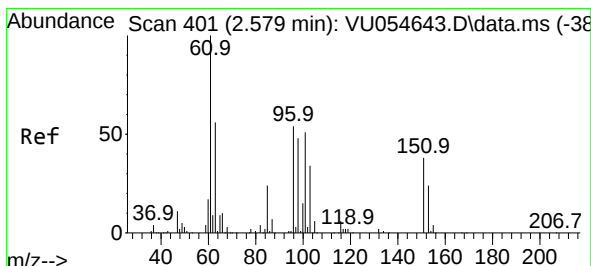
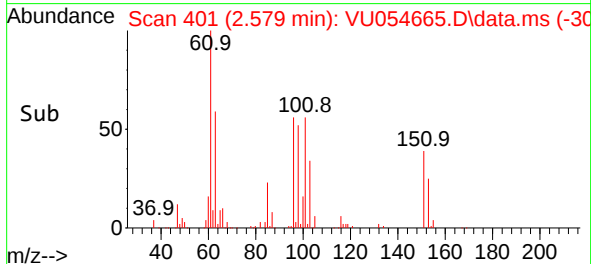
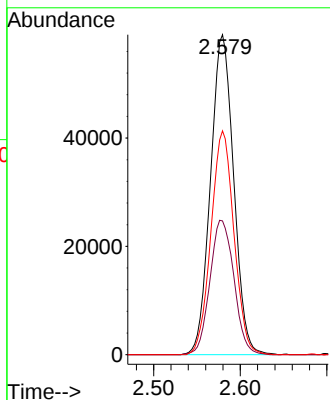
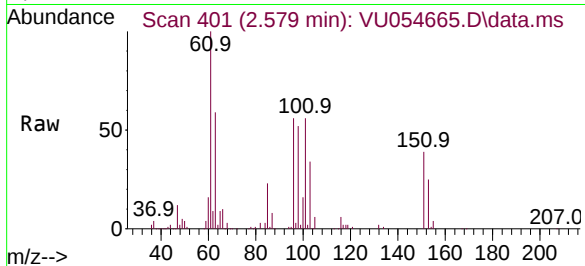




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 4.536 ug/L  
 RT: 2.579 min Scan# 401  
 Delta R.T. 0.000 min  
 Lab File: VU054665.D  
 Acq: 22 Jun 2023 18:51

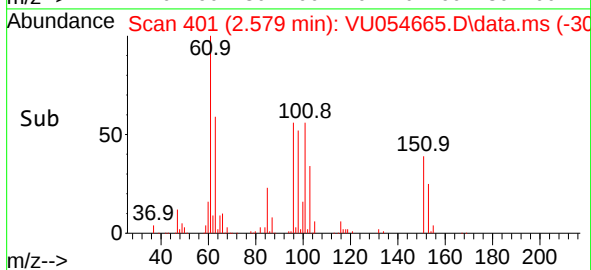
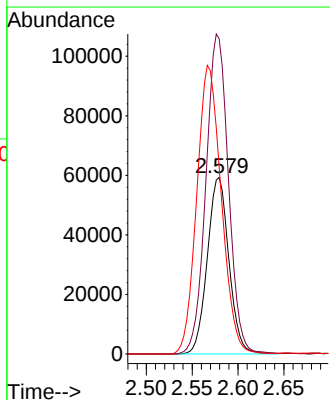
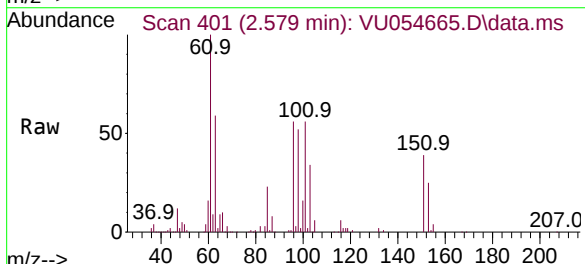
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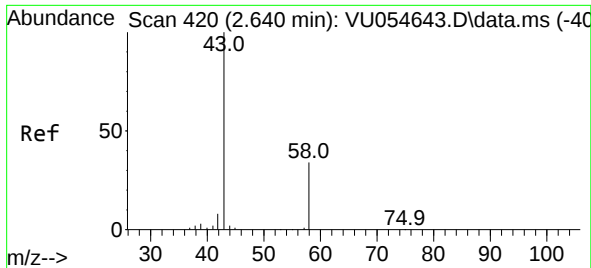
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 Ion Ratio Lower Upper  
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 151 69.6 57.7 86.5



#12  
 1,1-Dichloroethene  
 Concen: 4.378 ug/L  
 RT: 2.579 min Scan# 401  
 Delta R.T. 0.000 min  
 Lab File: VU054665.D  
 Acq: 22 Jun 2023 18:51

Tgt Ion: 96 Resp: 97065  
 Ion Ratio Lower Upper  
 96 100  
 61 178.5 119.9 222.7  
 63 105.7 64.3 119.3





#13

Acetone

Concen: 40.255 ug/L

RT: 2.644 min Scan# 420

Delta R.T. 0.003 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

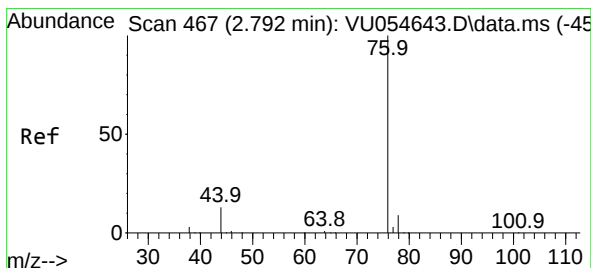
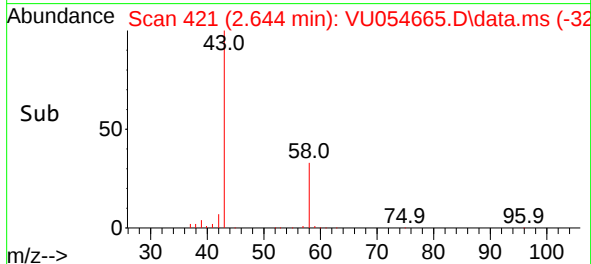
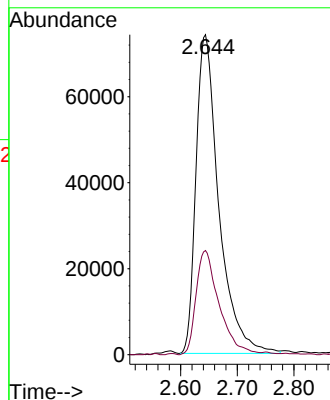
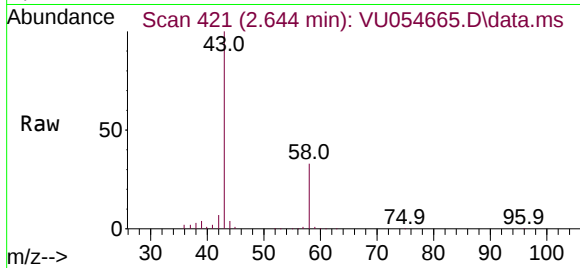
YBW82MSD

Tgt Ion: 43 Resp: 207608

Ion Ratio Lower Upper

43 100

58 33.0 0.0 67.2



#14

Carbon disulfide

Concen: 3.640 ug/L

RT: 2.792 min Scan# 467

Delta R.T. 0.000 min

Lab File: VU054665.D

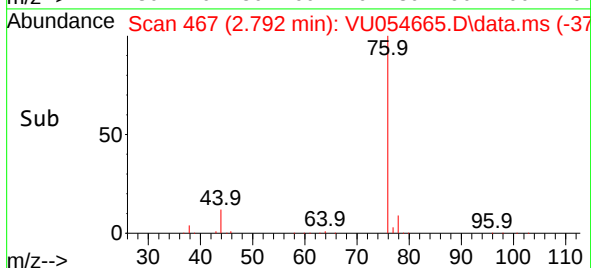
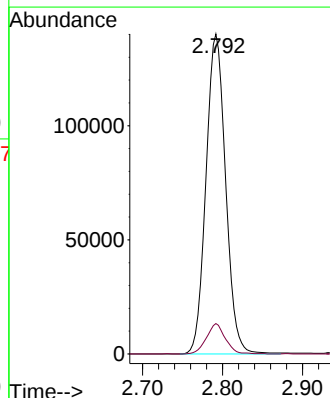
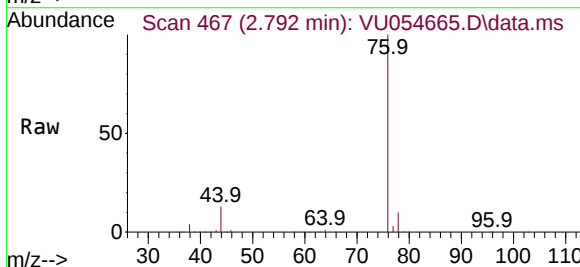
Acq: 22 Jun 2023 18:51

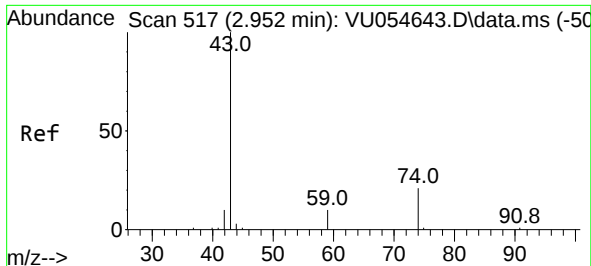
Tgt Ion: 76 Resp: 239358

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.0

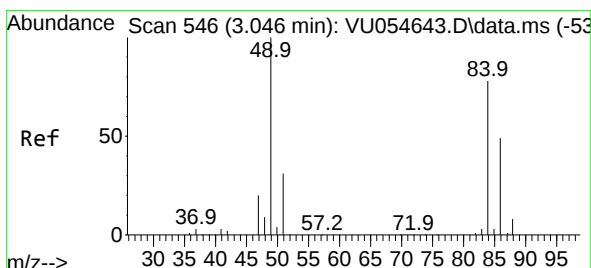
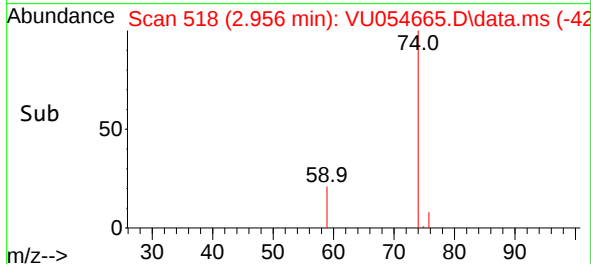
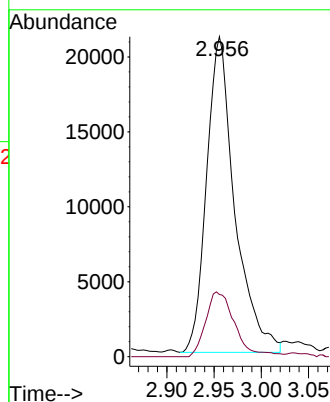
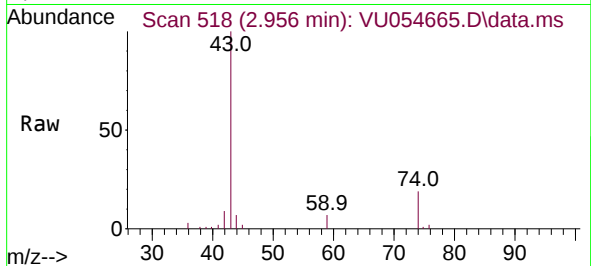




#15  
Methyl Acetate  
Concen: 4.572 ug/L  
RT: 2.956 min Scan# 517  
Delta R.T. 0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

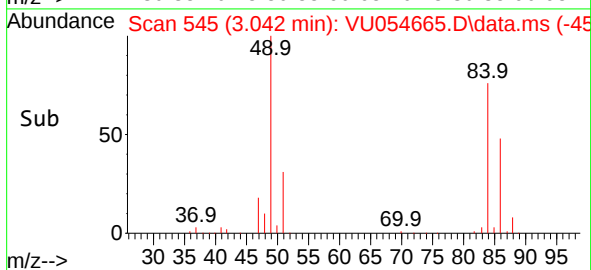
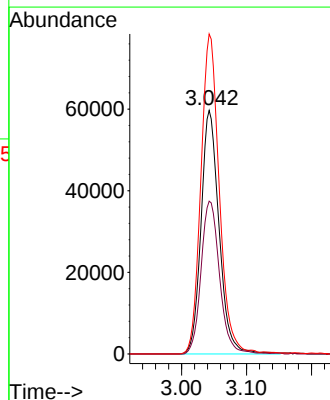
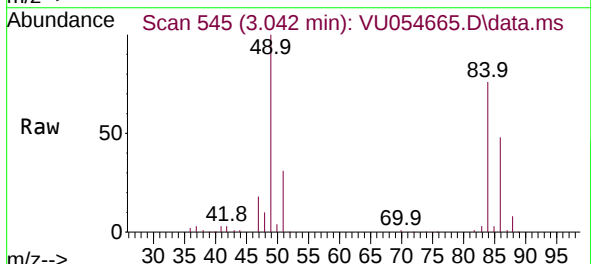
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

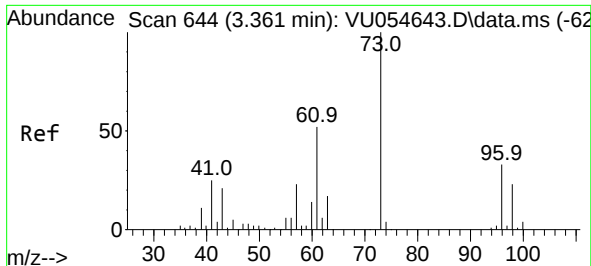
Tgt Ion: 43 Resp: 43696  
Ion Ratio Lower Upper  
43 100  
74 21.1 19.0 28.6



#16  
Methylene chloride  
Concen: 3.704 ug/L  
RT: 3.042 min Scan# 545  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion: 84 Resp: 115485  
Ion Ratio Lower Upper  
84 100  
86 62.7 43.9 81.5  
49 131.4 86.1 159.9





#17

Methyl tert-butyl Ether

Concen: 4.672 ug/L

RT: 3.361 min Scan# 644

Delta R.T. 0.000 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

YBW82MSD

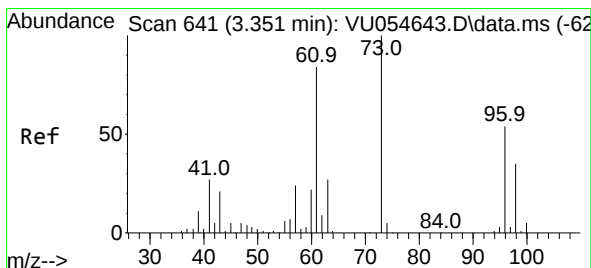
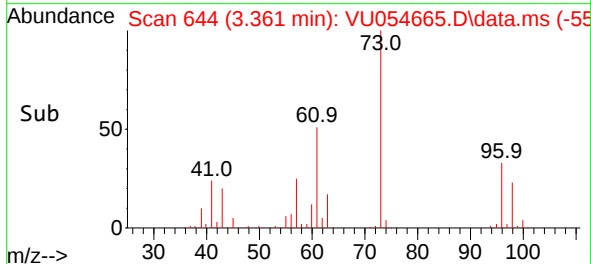
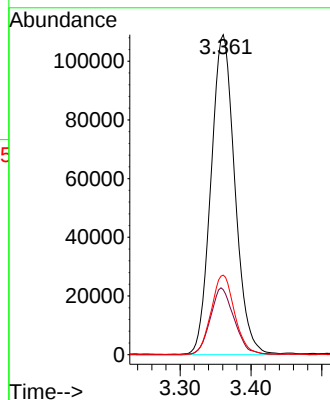
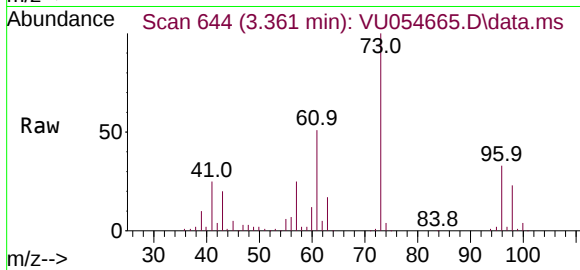
Tgt Ion: 73 Resp: 255675

Ion Ratio Lower Upper

73 100

43 20.4 15.7 23.5

57 24.5 18.6 28.0



#18

trans-1,2-Dichloroethene

Concen: 4.243 ug/L

RT: 3.351 min Scan# 641

Delta R.T. 0.000 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

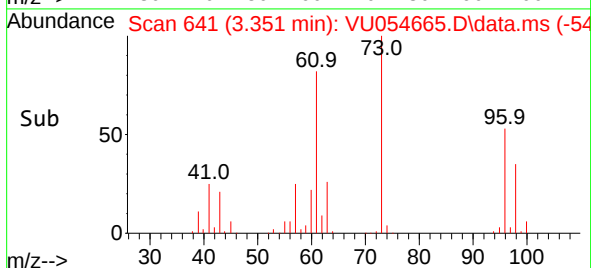
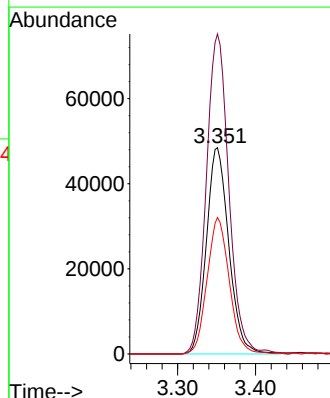
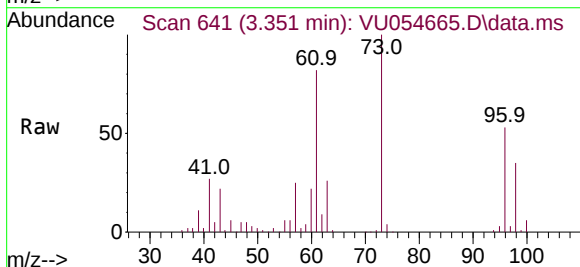
Tgt Ion: 96 Resp: 97135

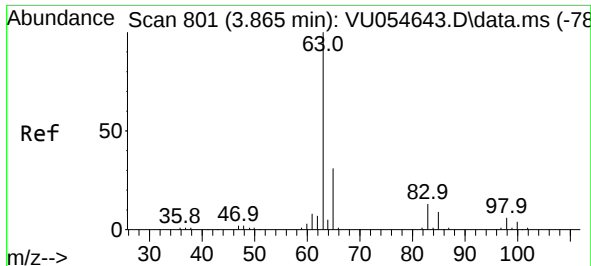
Ion Ratio Lower Upper

96 100

61 155.1 104.6 194.2

98 66.2 45.4 84.4





#19

1,1-Dichloroethane

Concen: 4.890 ug/L

RT: 3.866 min Scan# 801

Delta R.T. 0.000 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

YBW82MSD

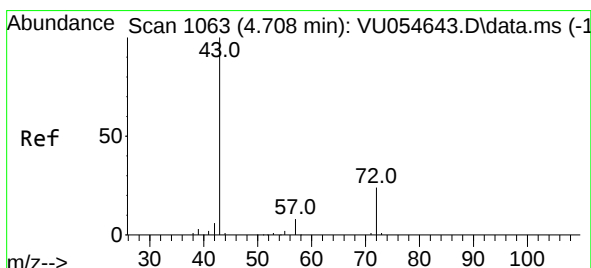
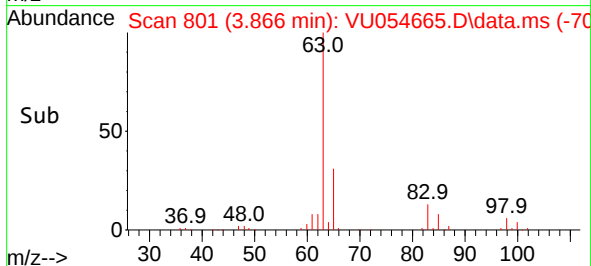
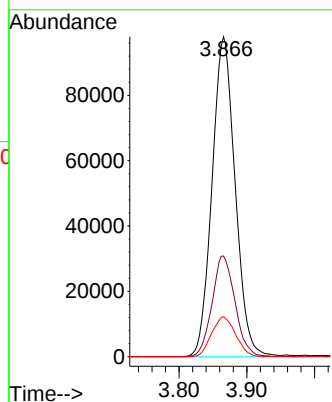
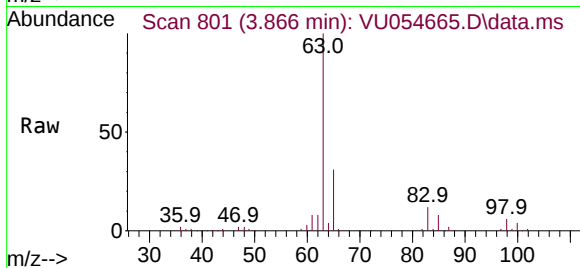
Tgt Ion: 63 Resp: 231638

Ion Ratio Lower Upper

63 100

65 31.4 22.2 41.2

83 12.5 9.0 16.6



#21

2-Butanone

Concen: 49.554 ug/L

RT: 4.708 min Scan# 1063

Delta R.T. 0.000 min

Lab File: VU054665.D

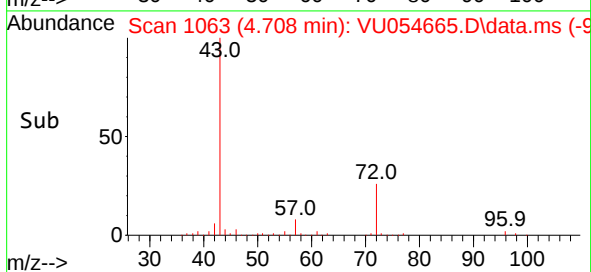
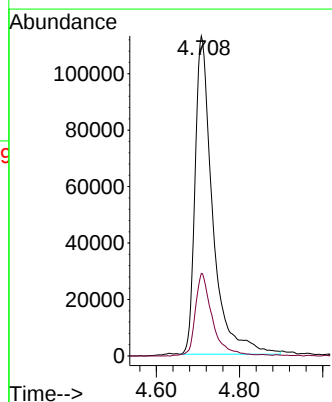
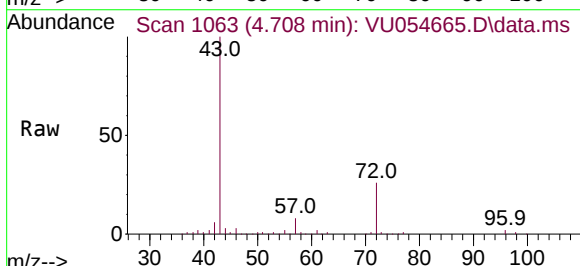
Acq: 22 Jun 2023 18:51

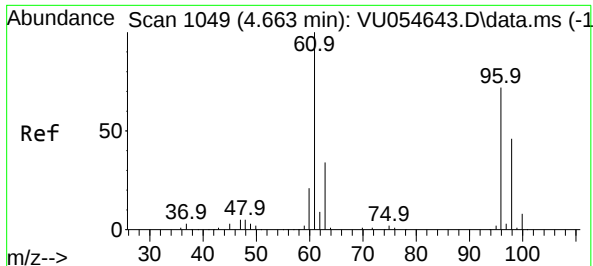
Tgt Ion: 43 Resp: 331674

Ion Ratio Lower Upper

43 100

72 25.1 13.4 40.1

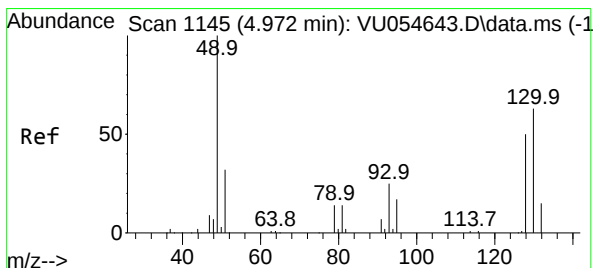
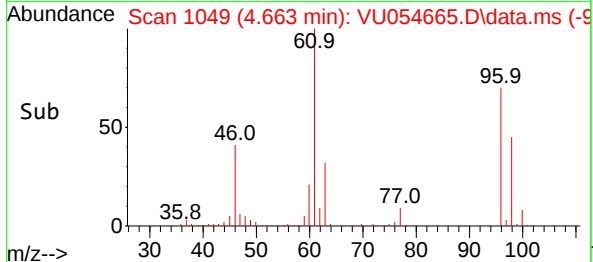
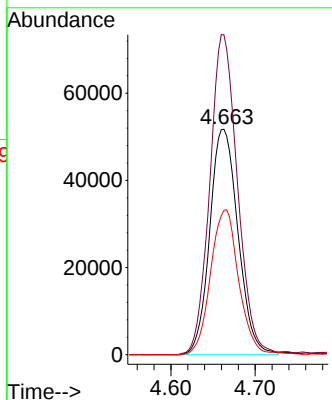
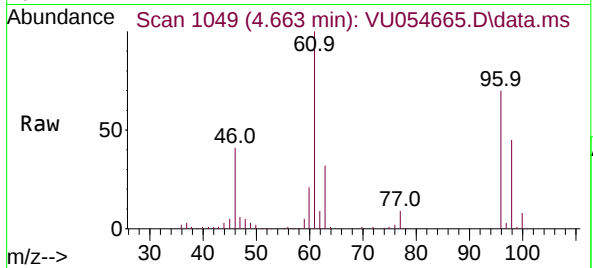




#22  
 cis-1,2-Dichloroethene  
 Concen: 4.626 ug/L  
 RT: 4.663 min Scan# 1049  
 Delta R.T. 0.000 min  
 Lab File: VU054665.D  
 Acq: 22 Jun 2023 18:51

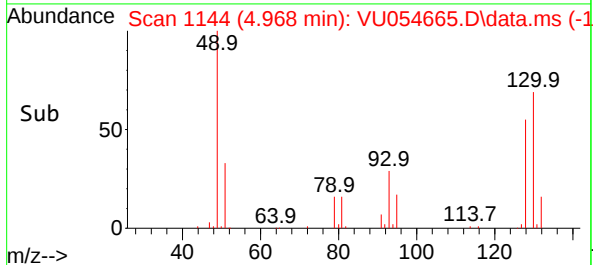
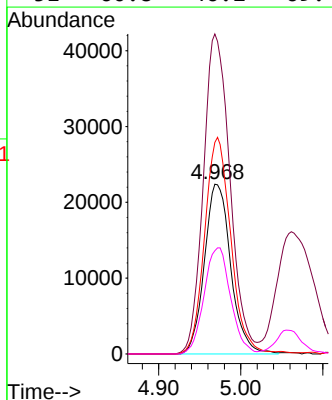
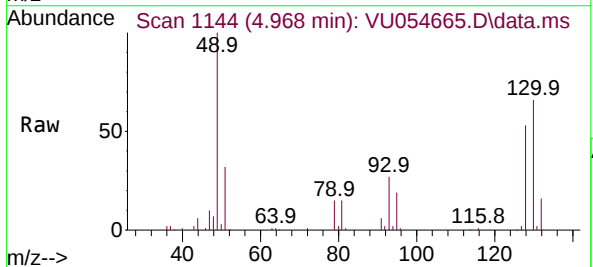
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YBW82MSD

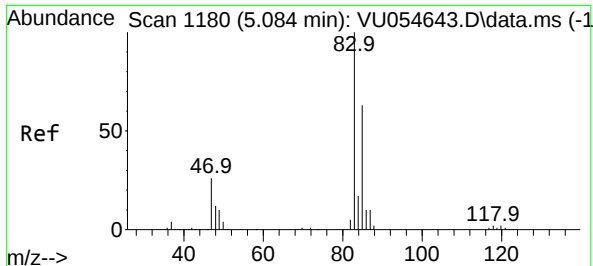
Tgt Ion: 96 Resp: 120590  
 Ion Ratio Lower Upper  
 96 100  
 61 141.9 96.5 179.1  
 98 64.0 44.9 83.3



#23  
 Bromochloromethane  
 Concen: 4.608 ug/L  
 RT: 4.968 min Scan# 1144  
 Delta R.T. -0.003 min  
 Lab File: VU054665.D  
 Acq: 22 Jun 2023 18:51

Tgt Ion: 128 Resp: 49989  
 Ion Ratio Lower Upper  
 128 100  
 49 188.6 132.1 245.3  
 130 124.6 91.5 169.9  
 51 60.8 46.2 69.4

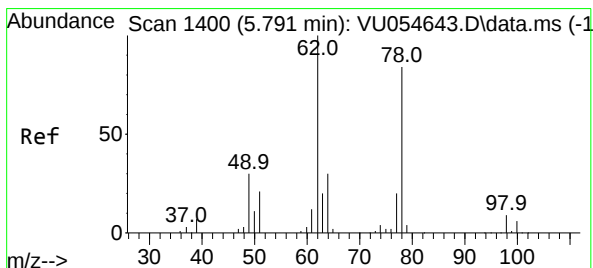
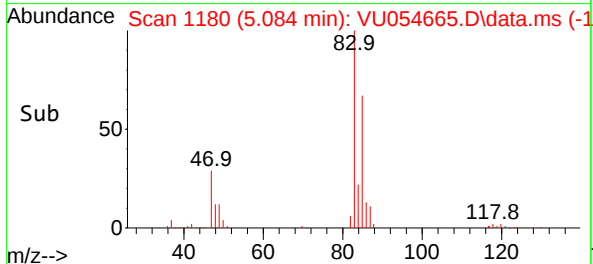
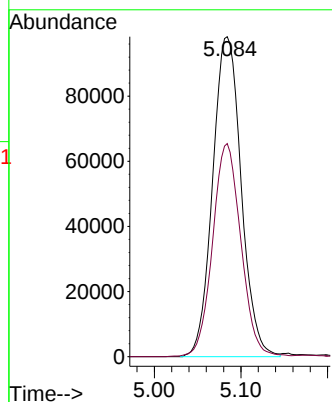
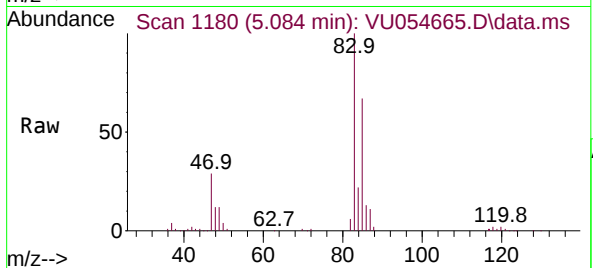




#25  
Chloroform  
Concen: 4.820 ug/L  
RT: 5.084 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

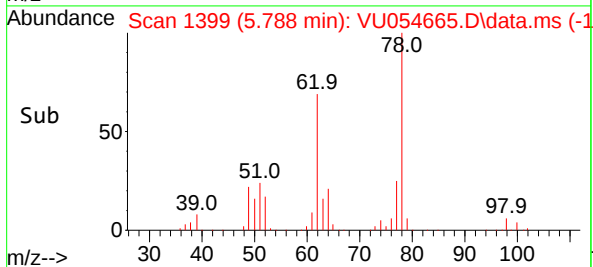
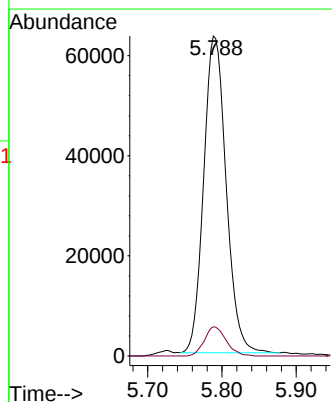
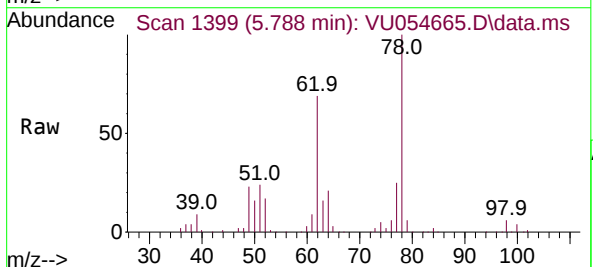
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

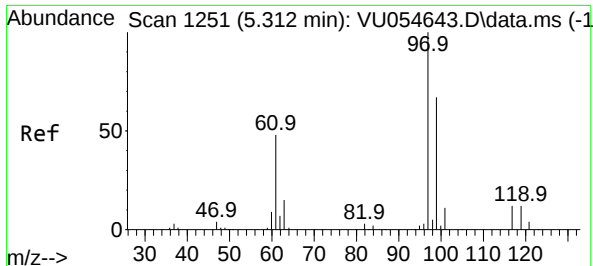
Tgt Ion: 83 Resp: 225132  
Ion Ratio Lower Upper  
83 100  
85 66.6 44.7 82.9



#27  
1,2-Dichloroethane  
Concen: 4.858 ug/L  
RT: 5.788 min Scan# 1399  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion: 62 Resp: 132992  
Ion Ratio Lower Upper  
62 100  
98 9.1 7.8 11.6

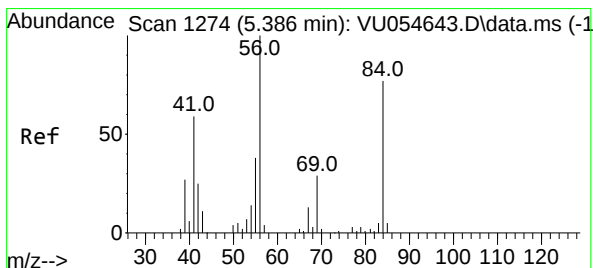
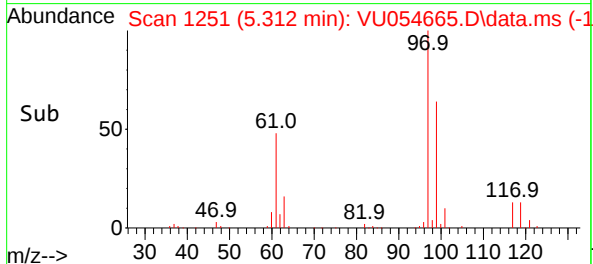
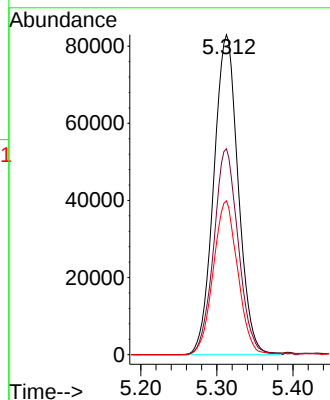
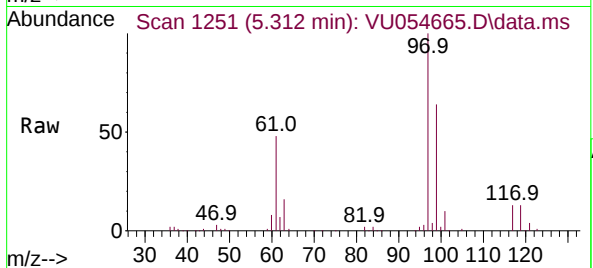




#29  
1,1,1-Trichloroethane  
Concen: 4.671 ug/L  
RT: 5.312 min Scan# 1251  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

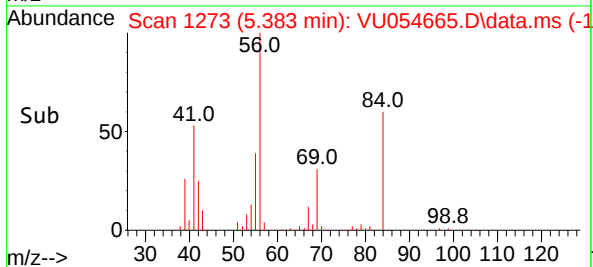
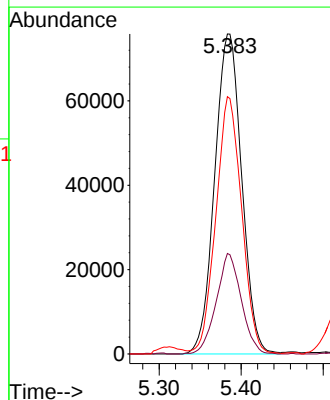
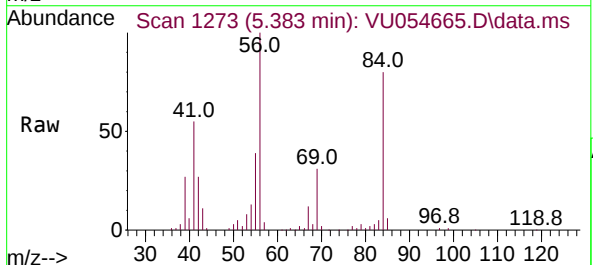
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

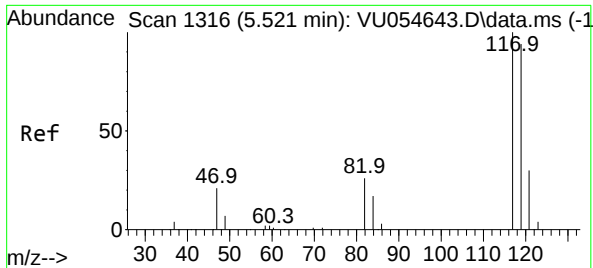
Tgt Ion: 97 Resp: 185253  
Ion Ratio Lower Upper  
97 100  
99 64.7 50.8 76.2  
61 48.2 36.1 54.1



#30  
Cyclohexane  
Concen: 4.021 ug/L  
RT: 5.383 min Scan# 1273  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion: 56 Resp: 173689  
Ion Ratio Lower Upper  
56 100  
69 29.0 23.9 35.9  
84 76.4 63.0 94.6

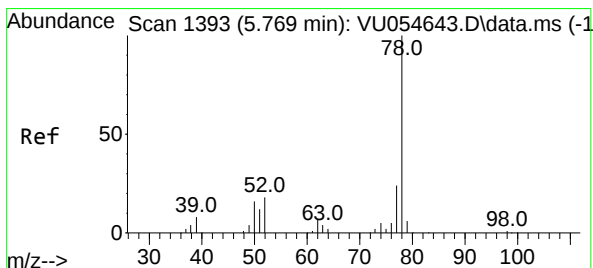
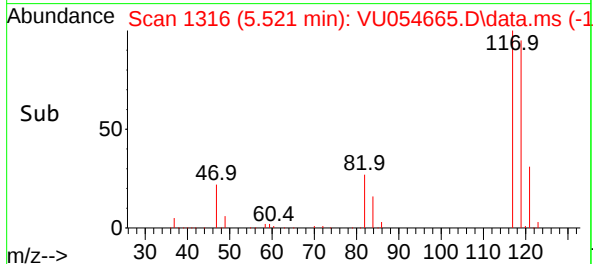
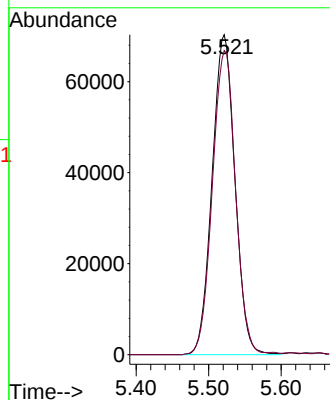
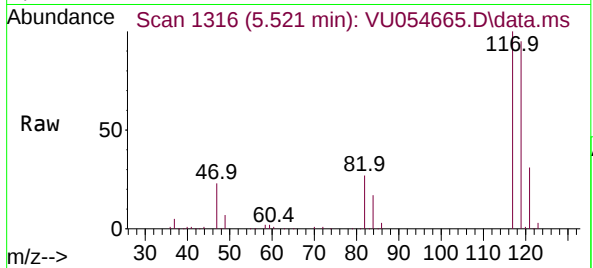




#31  
Carbon tetrachloride  
Concen: 4.501 ug/L  
RT: 5.521 min Scan# 1316  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

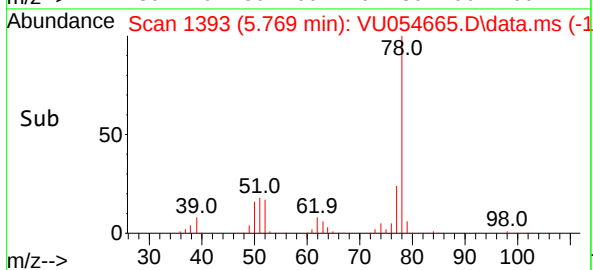
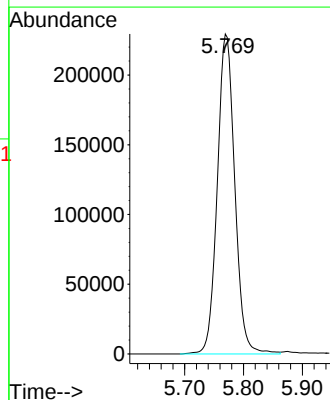
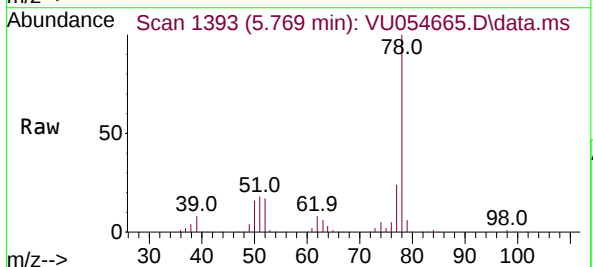
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

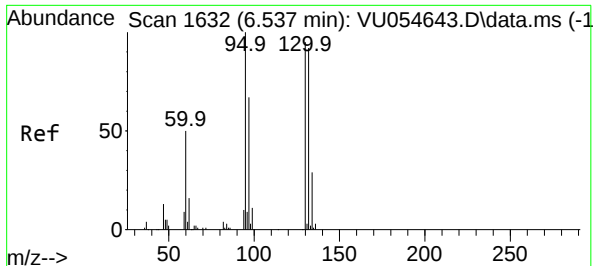
Tgt Ion:117 Resp: 153804  
Ion Ratio Lower Upper  
117 100  
119 96.3 76.8 115.2



#33  
Benzene  
Concen: 4.511 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion: 78 Resp: 474175

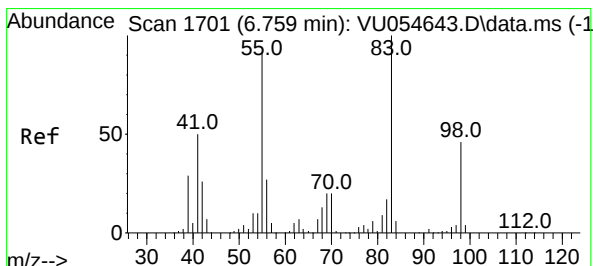
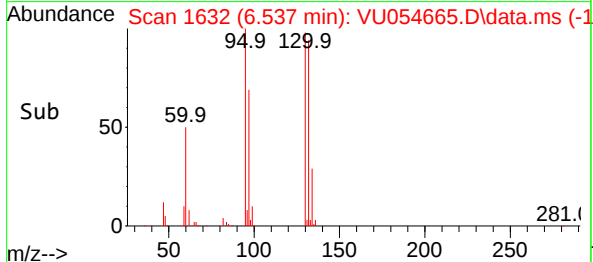
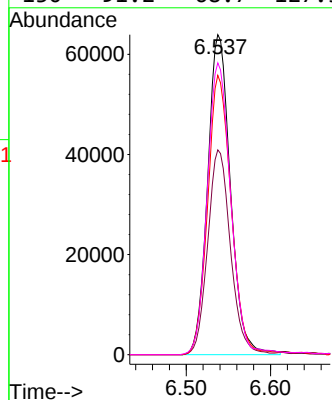
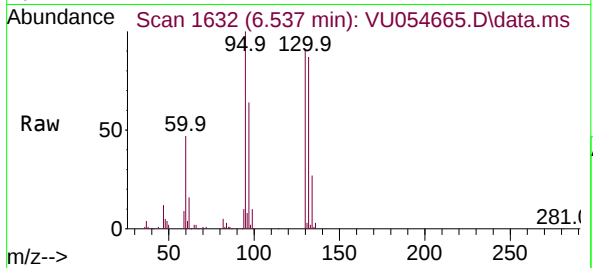




#34  
Trichloroethene  
Concen: 4.339 ug/L  
RT: 6.537 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

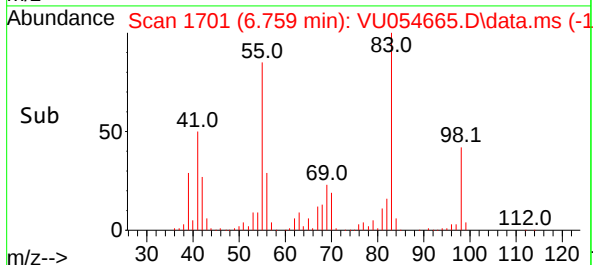
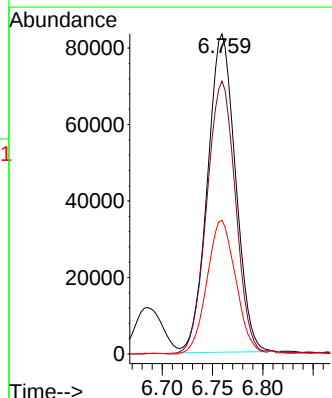
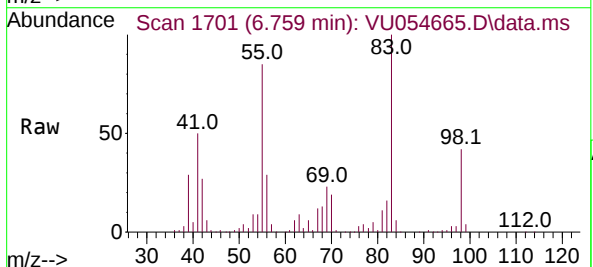
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

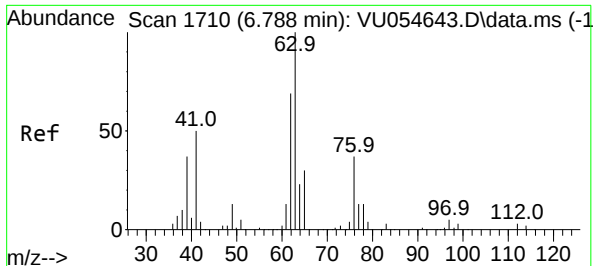
Tgt Ion: 95 Resp: 120593  
Ion Ratio Lower Upper  
95 100  
97 64.0 46.8 87.0  
132 87.3 68.4 127.0  
130 91.2 68.7 127.5



#35  
Methylcyclohexane  
Concen: 3.839 ug/L  
RT: 6.759 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion: 83 Resp: 161289  
Ion Ratio Lower Upper  
83 100  
55 88.0 67.1 100.7  
98 43.2 35.1 52.7





#37

1,2-Dichloropropane

Concen: 4.844 ug/L

RT: 6.785 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

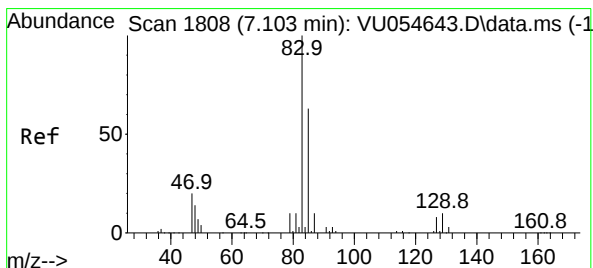
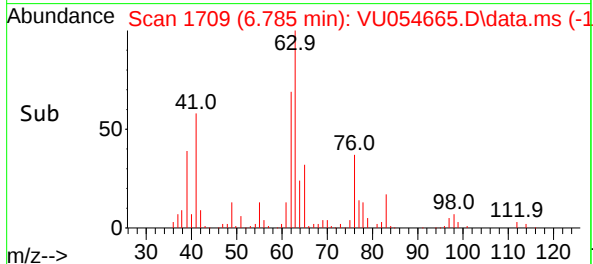
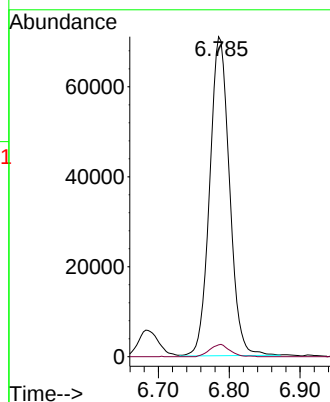
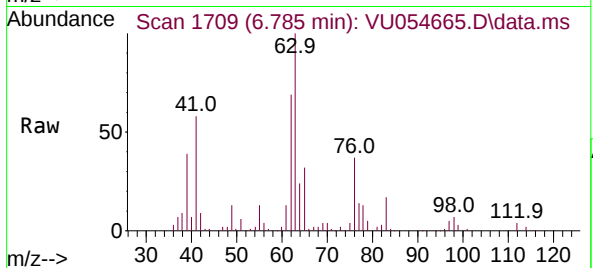
YBW82MSD

Tgt Ion: 63 Resp: 137658

Ion Ratio Lower Upper

63 100

112 3.9 3.0 4.6



#38

Bromodichloromethane

Concen: 4.858 ug/L

RT: 7.100 min Scan# 1807

Delta R.T. -0.003 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

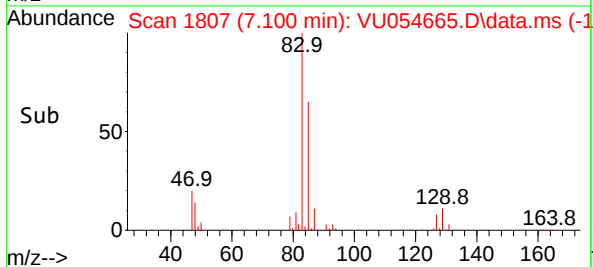
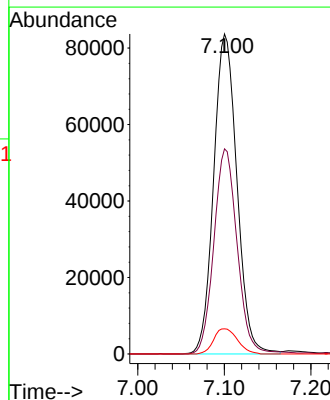
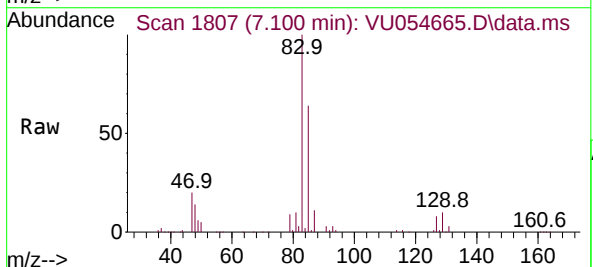
Tgt Ion: 83 Resp: 156283

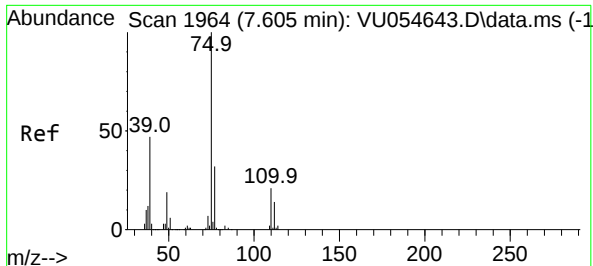
Ion Ratio Lower Upper

83 100

85 64.1 44.1 81.9

127 7.9 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 4.637 ug/L

RT: 7.602 min Scan# 1964

Delta R.T. -0.003 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

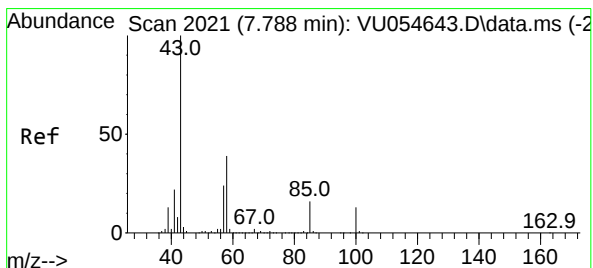
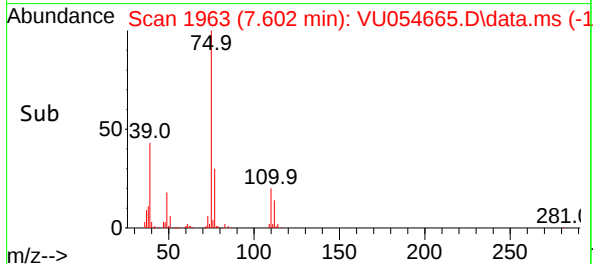
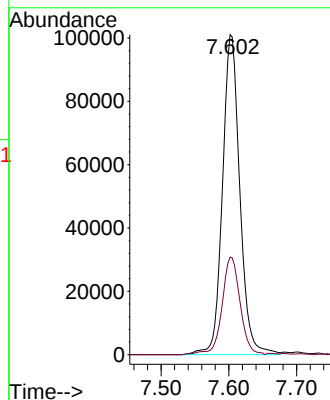
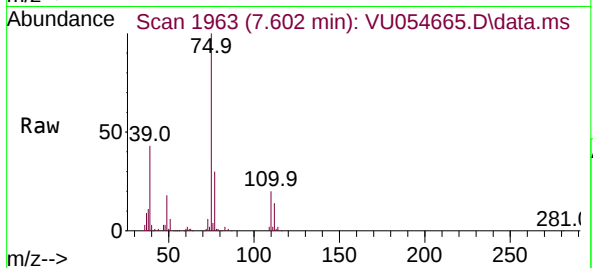
YBW82MSD

Tgt Ion: 75 Resp: 179922

Ion Ratio Lower Upper

75 100

77 30.5 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 52.055 ug/L

RT: 7.785 min Scan# 2020

Delta R.T. -0.003 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

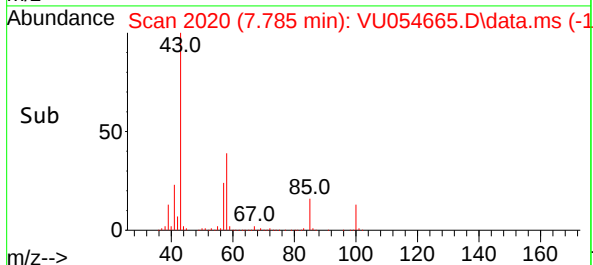
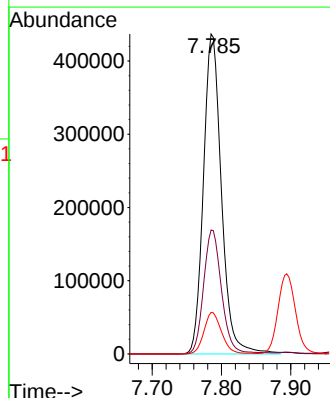
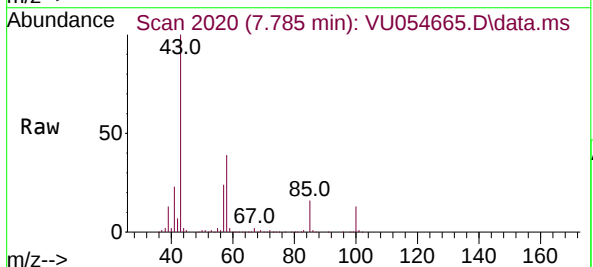
Tgt Ion: 43 Resp: 789445

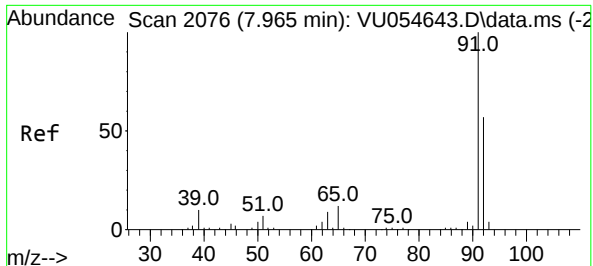
Ion Ratio Lower Upper

43 100

58 38.9 32.4 48.6

100 12.8 11.4 17.2





#42

Toluene

Concen: 4.673 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

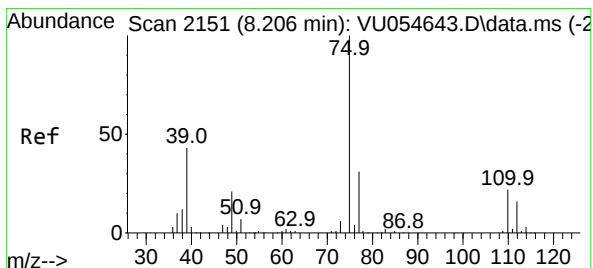
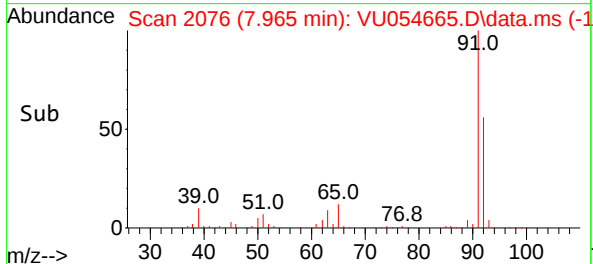
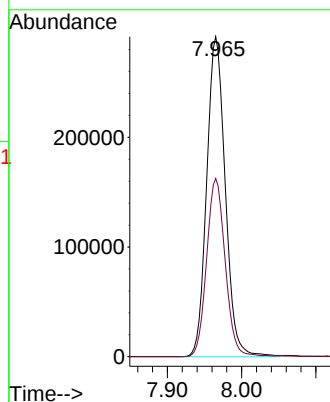
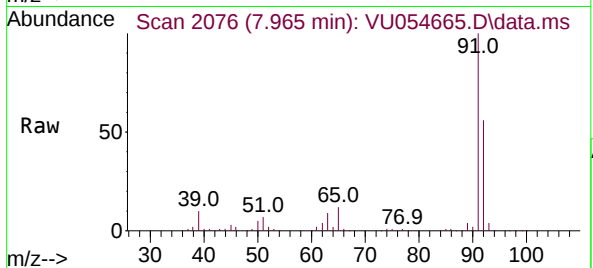
YBW82MSD

Tgt Ion: 91 Resp: 505841

Ion Ratio Lower Upper

91 100

92 55.7 39.5 73.4



#44

trans-1,3-Dichloropropene

Concen: 4.733 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. 0.000 min

Lab File: VU054665.D

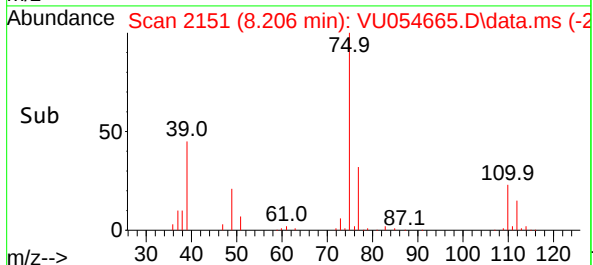
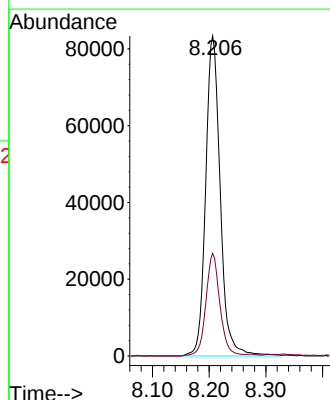
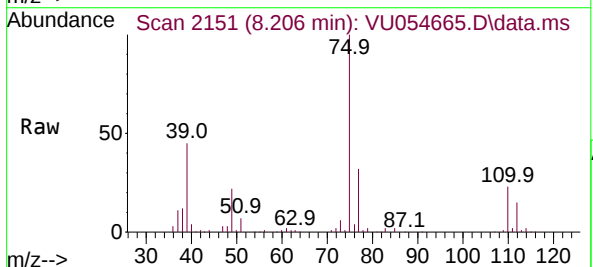
Acq: 22 Jun 2023 18:51

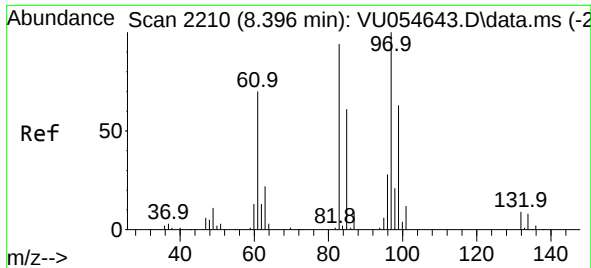
Tgt Ion: 75 Resp: 149044

Ion Ratio Lower Upper

75 100

77 32.1 21.3 39.6

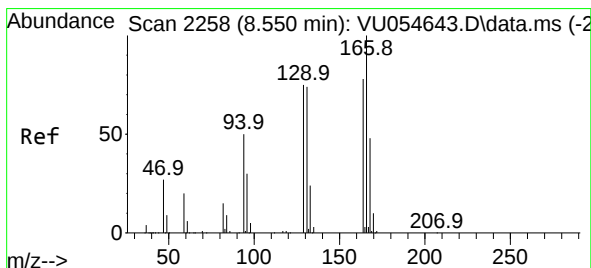
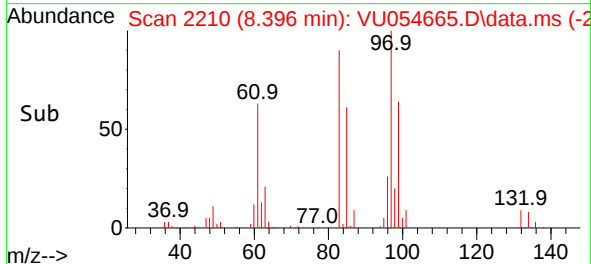
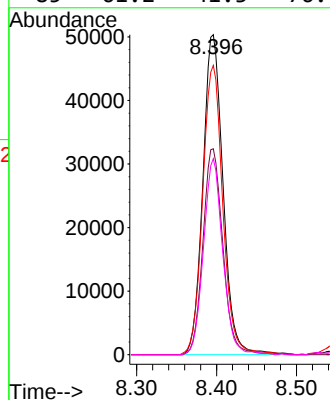
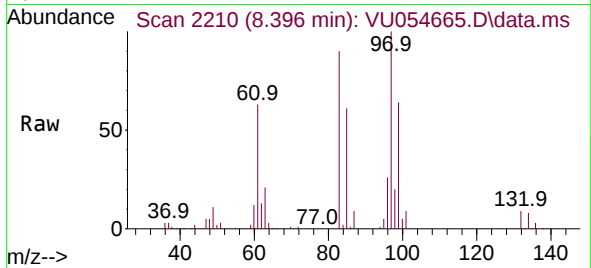




#45  
1,1,2-Trichloroethane  
Concen: 4.897 ug/L  
RT: 8.396 min Scan# 2210  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

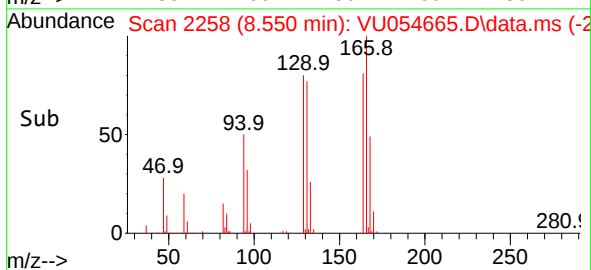
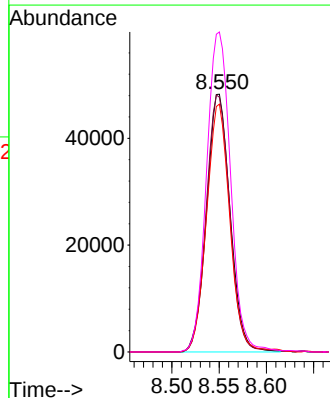
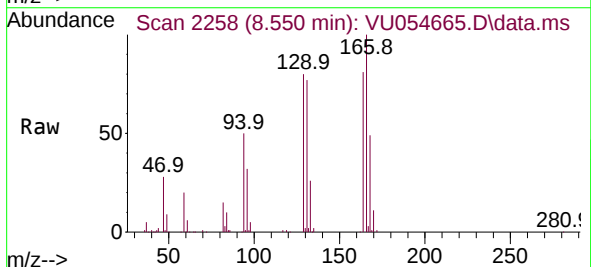
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

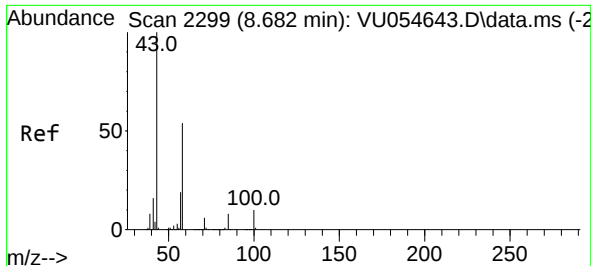
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 88529 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.4  | 43.0  | 80.0  |
| 83       | 90.4  | 63.8  | 118.6 |
| 85       | 61.2  | 41.3  | 76.7  |



#47  
Tetrachloroethene  
Concen: 3.933 ug/L  
RT: 8.550 min Scan# 2258  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 83669 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 98.8  | 67.7  | 125.7 |
| 131      | 96.1  | 64.6  | 120.0 |
| 166      | 124.1 | 88.1  | 163.7 |



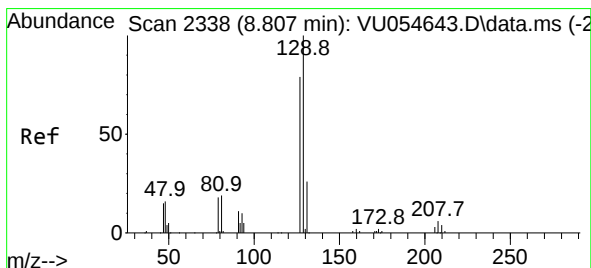
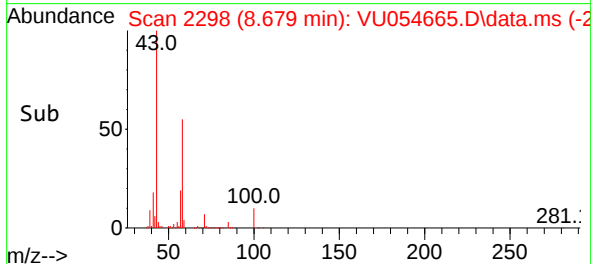
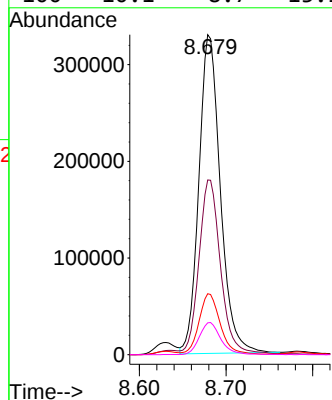
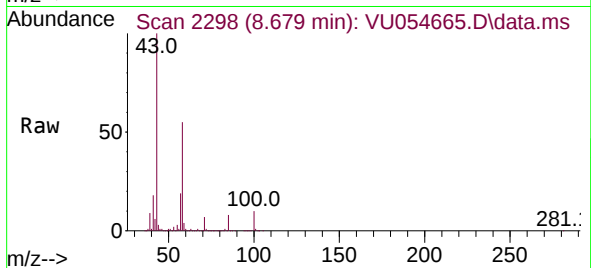


#48  
2-Hexanone  
Concen: 50.362 ug/L  
RT: 8.679 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

Tgt Ion: 43 Resp: 569098

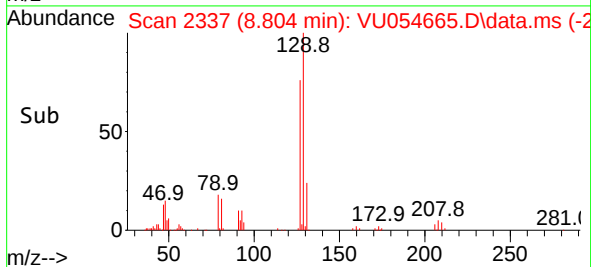
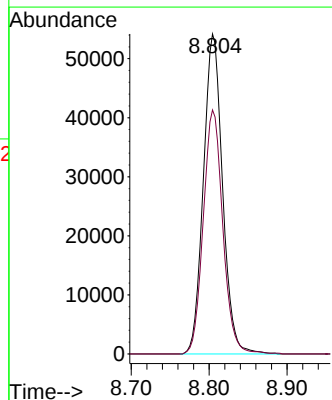
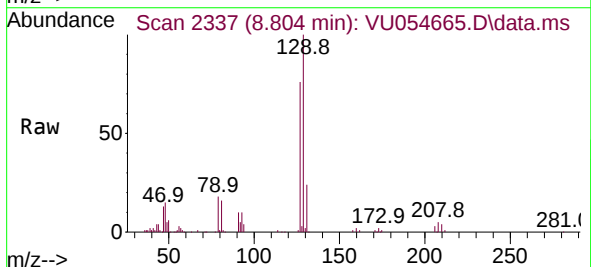
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 54.6  | 45.2  | 67.8  |
| 57  | 18.8  | 15.8  | 23.6  |
| 100 | 10.1  | 8.7   | 13.1  |

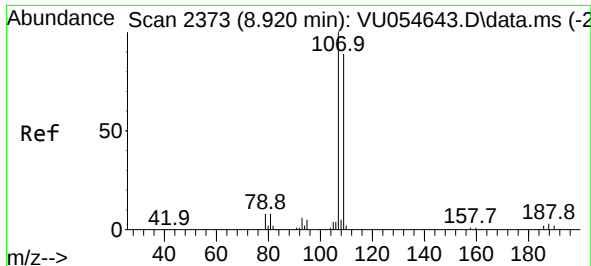


#49  
Dibromochloromethane  
Concen: 4.879 ug/L  
RT: 8.804 min Scan# 2337  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion: 129 Resp: 92614

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 76.2  | 53.2  | 98.8  |

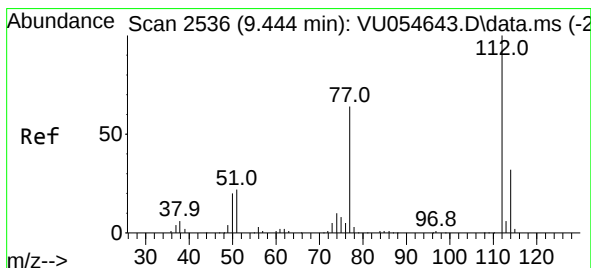
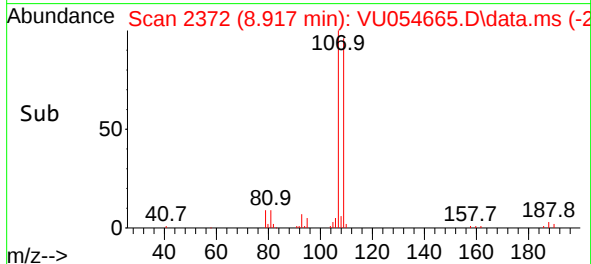
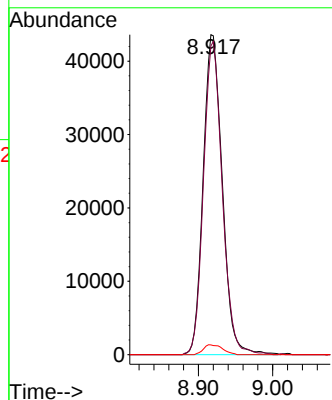
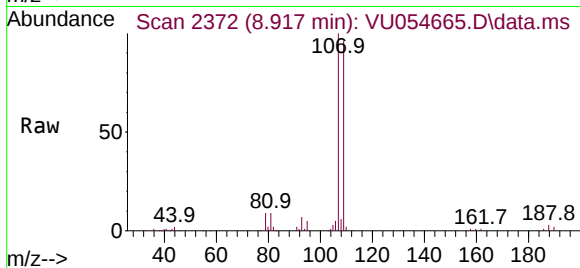




#50  
1,2-Dibromoethane  
Concen: 4.689 ug/L  
RT: 8.917 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

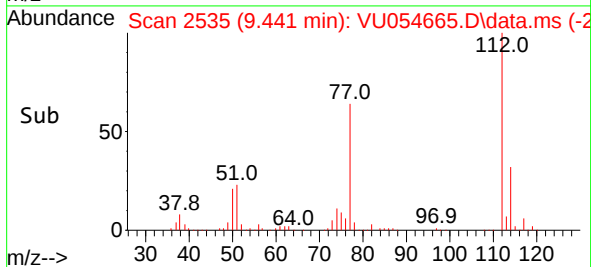
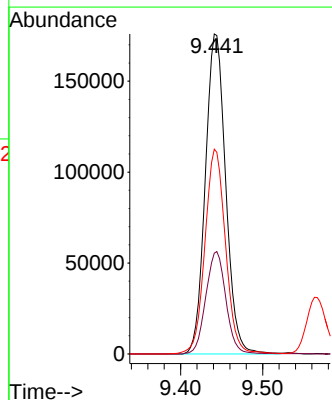
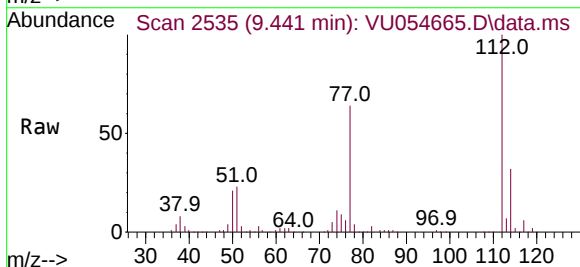
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

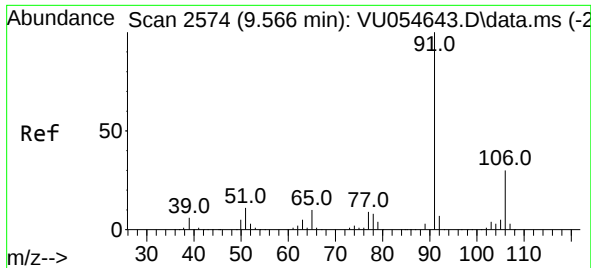
Tgt Ion:107 Resp: 77825  
Ion Ratio Lower Upper  
107 100  
109 96.5 66.6 123.6  
188 3.0 3.1 4.7#



#51  
Chlorobenzene  
Concen: 4.506 ug/L  
RT: 9.441 min Scan# 2535  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion:112 Resp: 304027  
Ion Ratio Lower Upper  
112 100  
114 31.5 22.7 42.1  
77 64.0 49.8 74.8

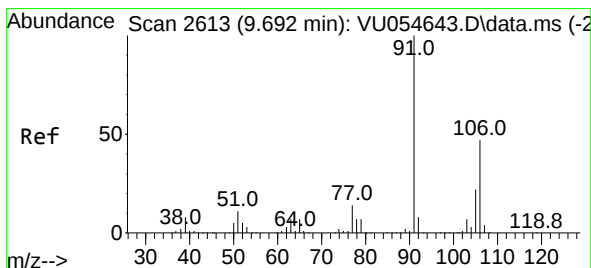
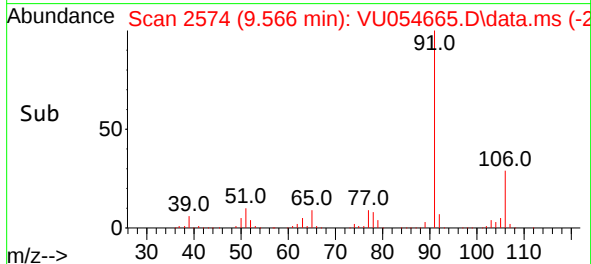
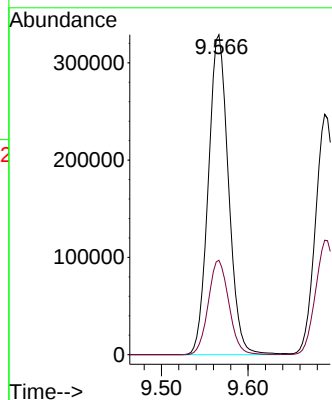
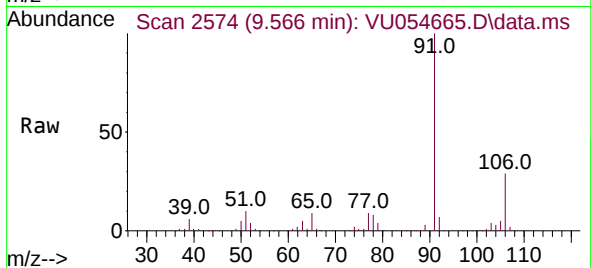




#52  
Ethylbenzene  
Concen: 4.497 ug/L  
RT: 9.566 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

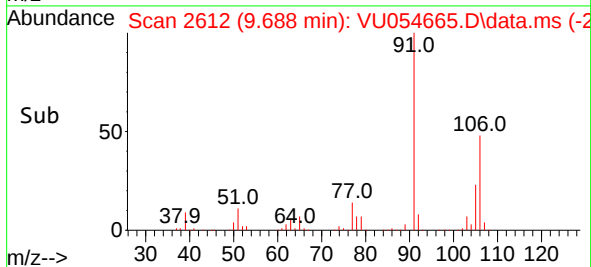
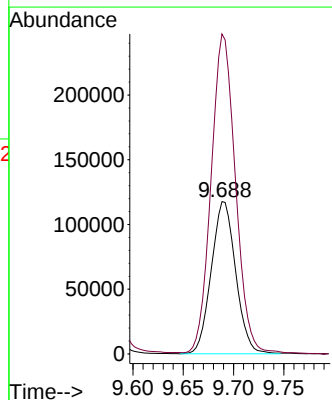
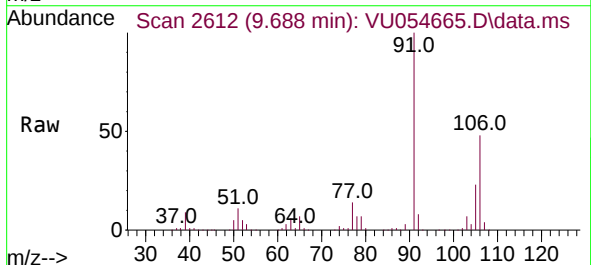
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

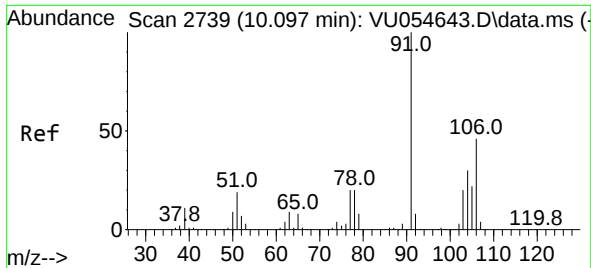
Tgt Ion: 91 Resp: 531628  
Ion Ratio Lower Upper  
91 100  
106 29.5 21.1 39.3



#53  
m,p-Xylene  
Concen: 4.565 ug/L  
RT: 9.688 min Scan# 2612  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion: 106 Resp: 198229  
Ion Ratio Lower Upper  
106 100  
91 210.1 147.0 273.0

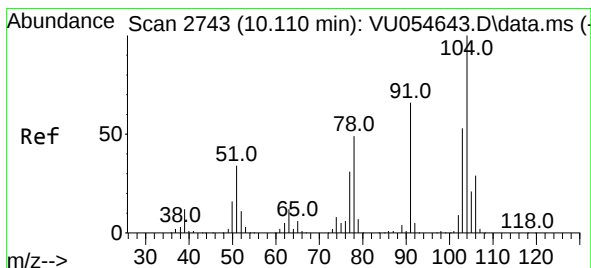
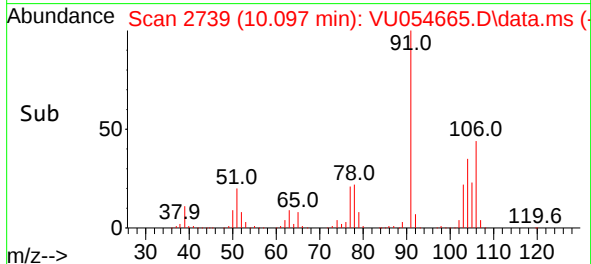
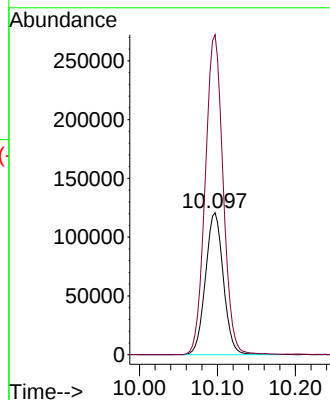
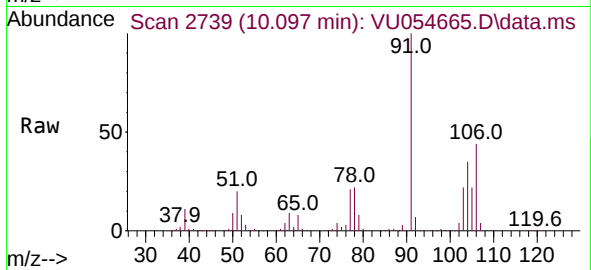




#54  
o-Xylene  
Concen: 4.586 ug/L  
RT: 10.097 min Scan# 2739  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

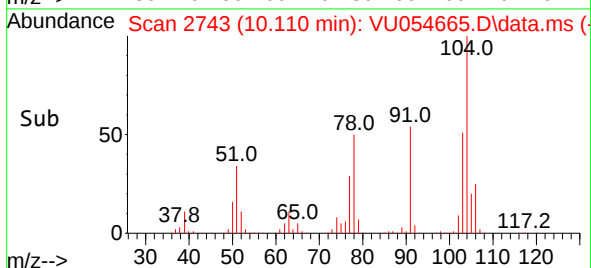
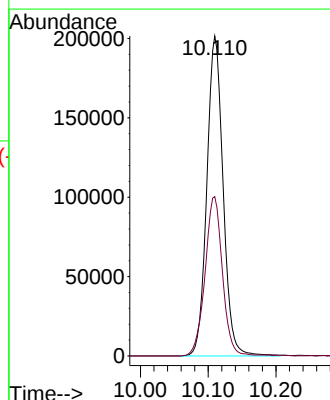
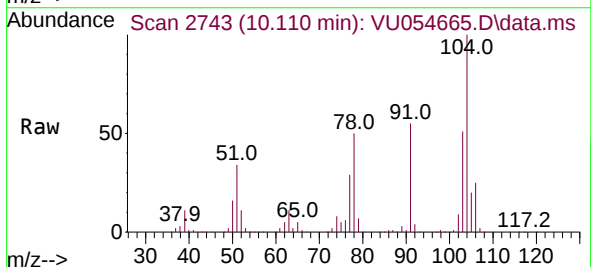
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MSVOA\_U  
ClientSampleId :  
YBW82MSD

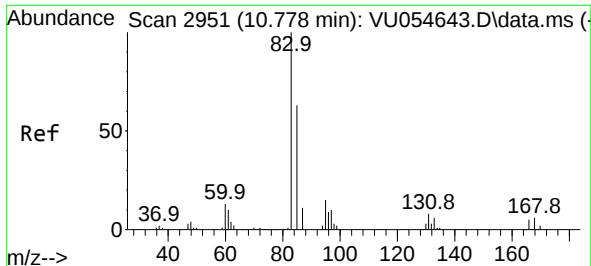
Tgt Ion:106 Resp: 192590  
Ion Ratio Lower Upper  
106 100  
91 225.5 154.5 286.9



#55  
Styrene  
Concen: 4.775 ug/L  
RT: 10.110 min Scan# 2743  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion:104 Resp: 336581  
Ion Ratio Lower Upper  
104 100  
78 49.8 33.0 61.4





#57

1,1,2,2-Tetrachloroethane

Concen: 4.959 ug/L

RT: 10.775 min Scan# 2951

Delta R.T. -0.003 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

YBW82MSD

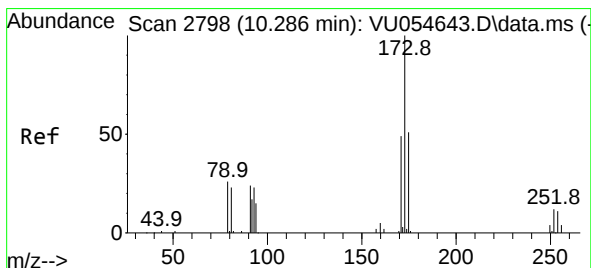
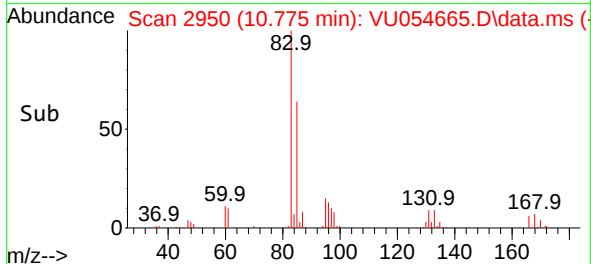
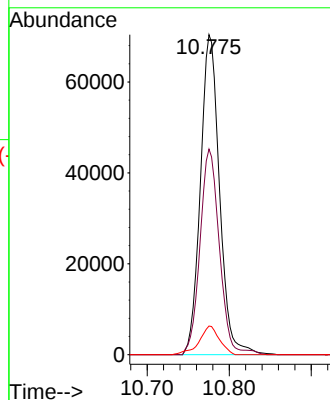
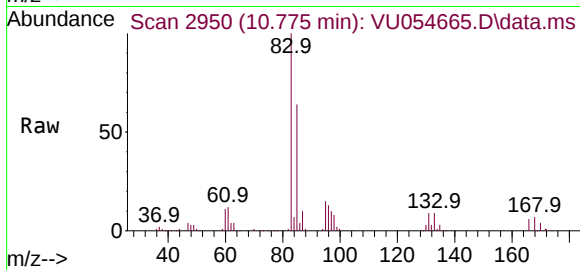
Tgt Ion: 83 Resp: 113886

Ion Ratio Lower Upper

83 100

85 64.3 44.2 82.2

131 8.9 7.0 10.6



#59

Bromoform

Concen: 4.849 ug/L

RT: 10.287 min Scan# 2798

Delta R.T. 0.000 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

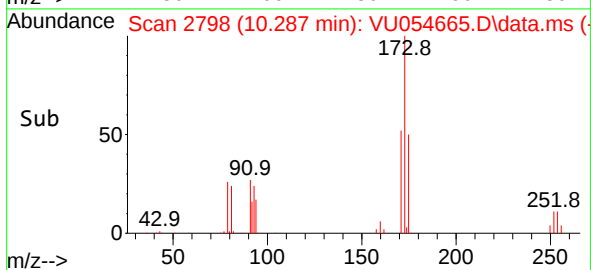
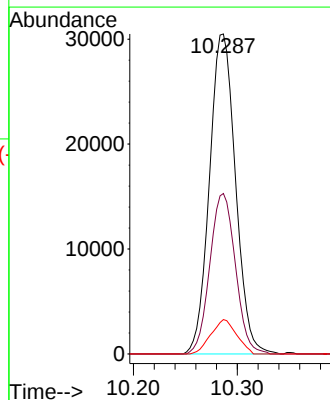
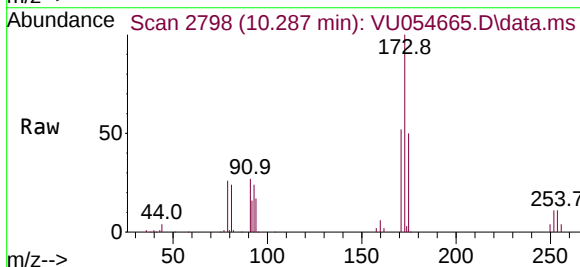
Tgt Ion:173 Resp: 53107

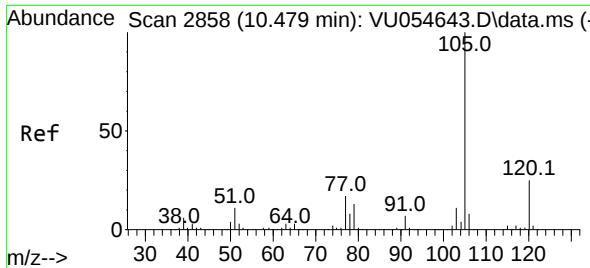
Ion Ratio Lower Upper

173 100

175 49.2 39.4 59.0

254 10.6 8.6 12.8

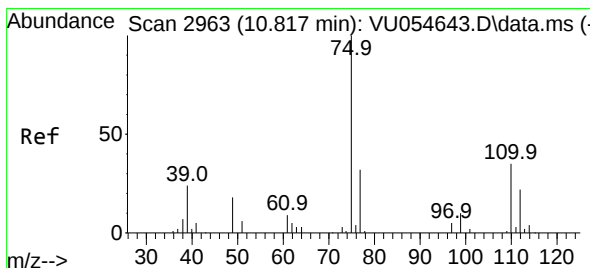
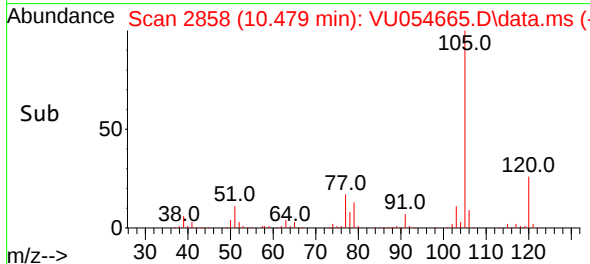
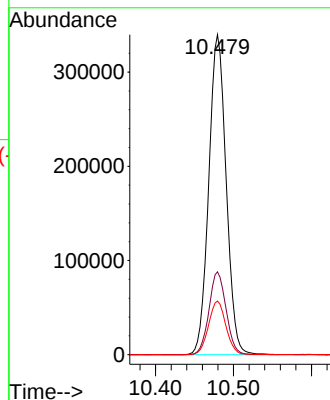
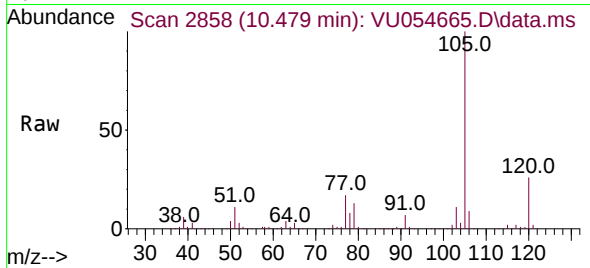




#60  
Isopropylbenzene  
Concen: 4.719 ug/L  
RT: 10.479 min Scan# 2858  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

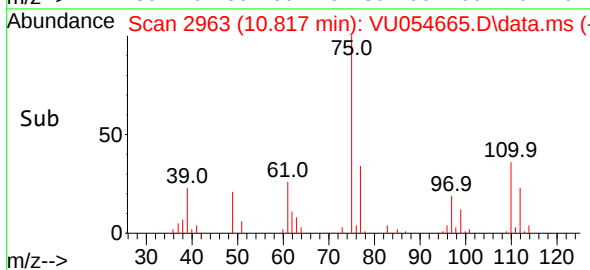
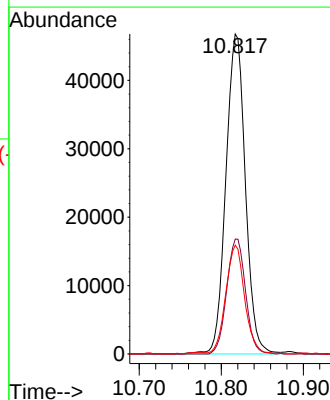
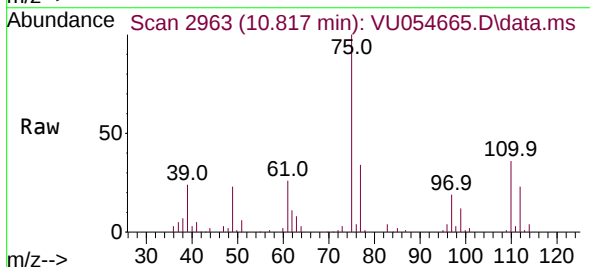
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

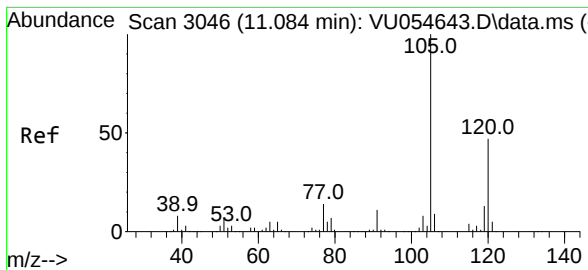
Tgt Ion:105 Resp: 526657  
Ion Ratio Lower Upper  
105 100  
120 25.5 20.9 31.3  
77 16.8 13.2 19.8



#61  
1,2,3-Trichloropropane  
Concen: 5.007 ug/L  
RT: 10.817 min Scan# 2963  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion: 75 Resp: 77190  
Ion Ratio Lower Upper  
75 100  
110 34.7 28.0 42.0  
77 33.0 25.4 38.2

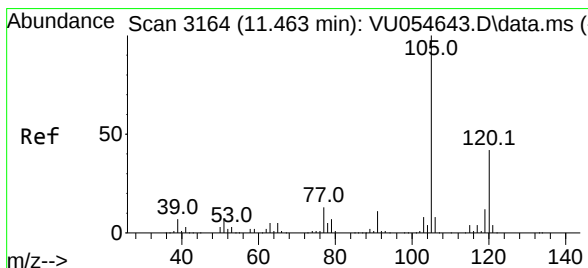
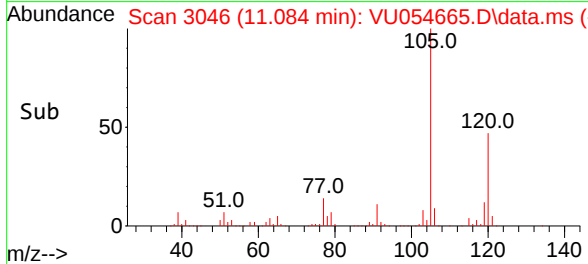
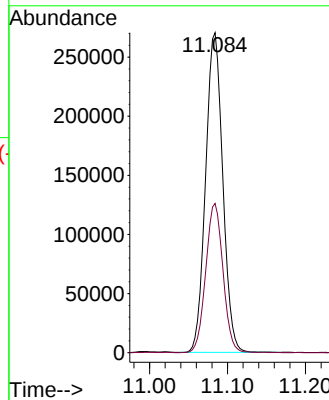
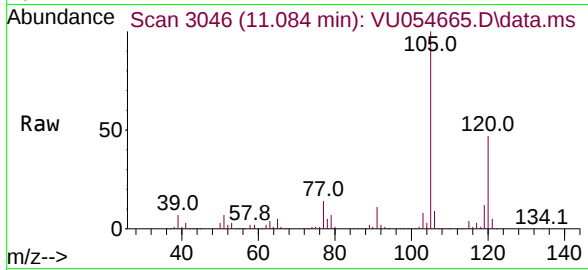




#62  
 1,3,5-Trimethylbenzene  
 Concen: 4.548 ug/L  
 RT: 11.084 min Scan# 3046  
 Delta R.T. 0.000 min  
 Lab File: VU054665.D  
 Acq: 22 Jun 2023 18:51

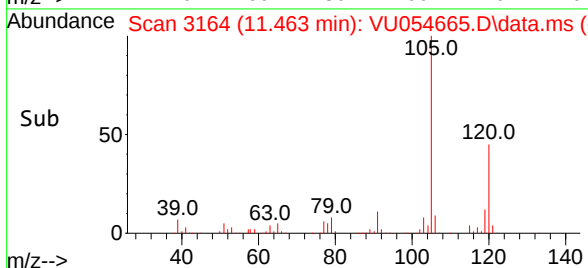
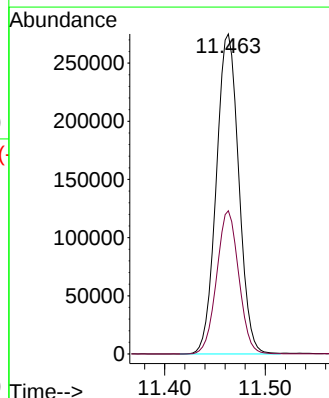
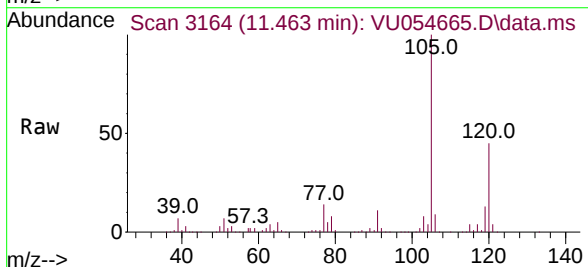
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YBW82MSD

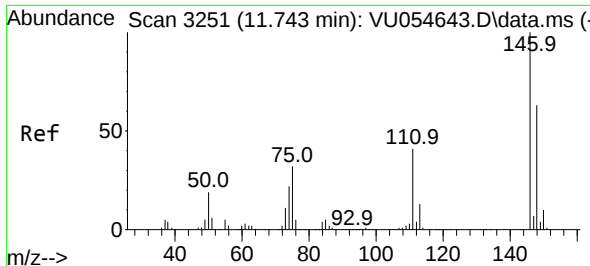
Tgt Ion:105 Resp: 414145  
 Ion Ratio Lower Upper  
 105 100  
 120 46.9 37.9 56.9



#63  
 1,2,4-Trimethylbenzene  
 Concen: 4.618 ug/L  
 RT: 11.463 min Scan# 3164  
 Delta R.T. 0.000 min  
 Lab File: VU054665.D  
 Acq: 22 Jun 2023 18:51

Tgt Ion:105 Resp: 427050  
 Ion Ratio Lower Upper  
 105 100  
 120 44.1 35.4 53.0

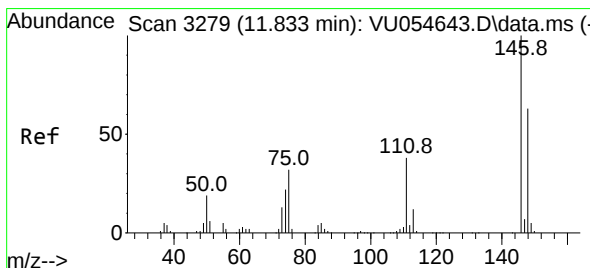
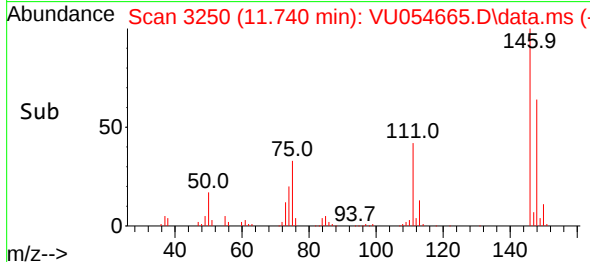
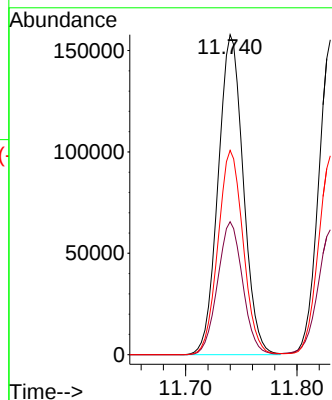
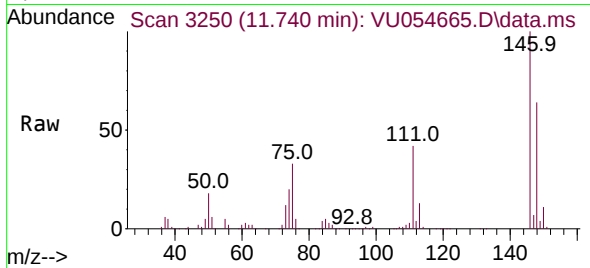




#64  
1,3-Dichlorobenzene  
Concen: 4.747 ug/L  
RT: 11.740 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

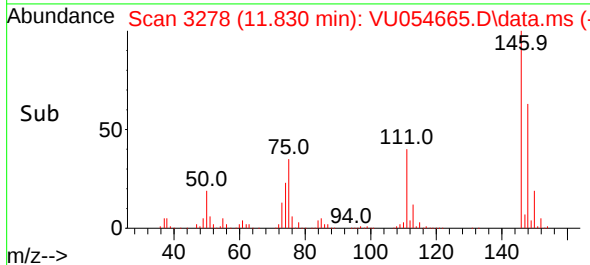
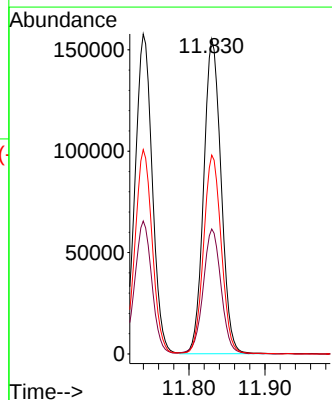
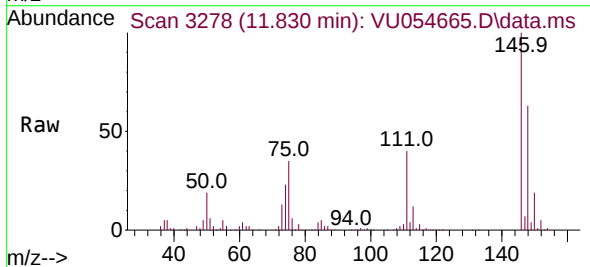
Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

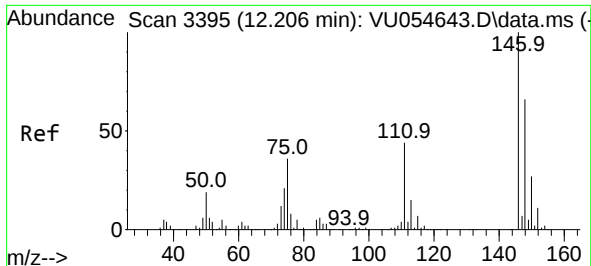
Tgt Ion:146 Resp: 247642  
Ion Ratio Lower Upper  
146 100  
111 41.6 28.9 53.7  
148 63.9 44.0 81.8



#65  
1,4-Dichlorobenzene  
Concen: 4.709 ug/L  
RT: 11.830 min Scan# 3278  
Delta R.T. -0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion:146 Resp: 246552  
Ion Ratio Lower Upper  
146 100  
111 39.7 28.0 52.0  
148 63.2 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 4.757 ug/L

RT: 12.206 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

Instrument :

MSVOA\_U

ClientSampleId :

YBW82MSD

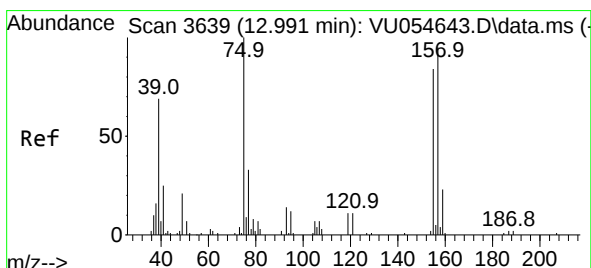
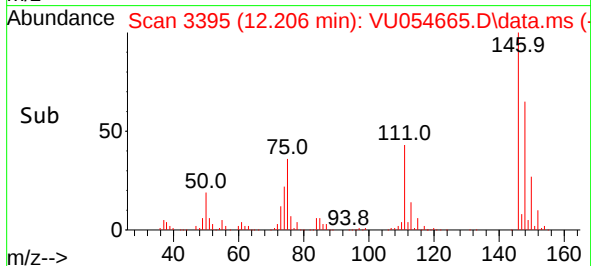
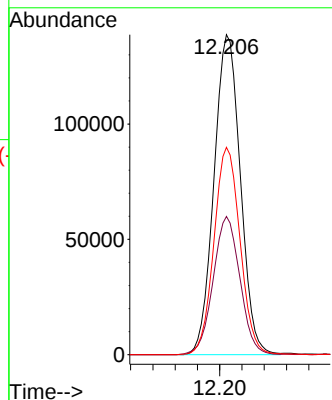
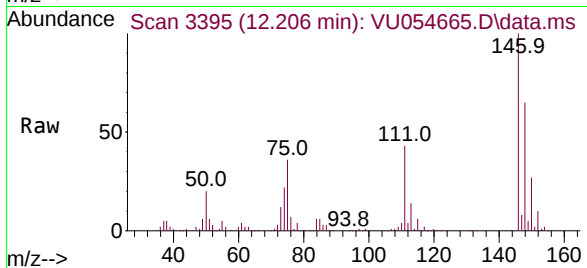
Tgt Ion:146 Resp: 228213

Ion Ratio Lower Upper

146 100

111 43.2 34.5 51.7

148 64.8 50.9 76.3



#68

1,2-Dibromo-3-chloropropane

Concen: 5.319 ug/L

RT: 12.991 min Scan# 3639

Delta R.T. 0.000 min

Lab File: VU054665.D

Acq: 22 Jun 2023 18:51

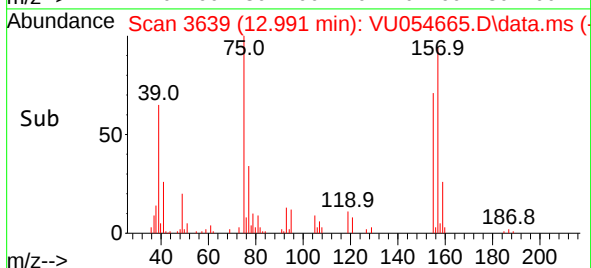
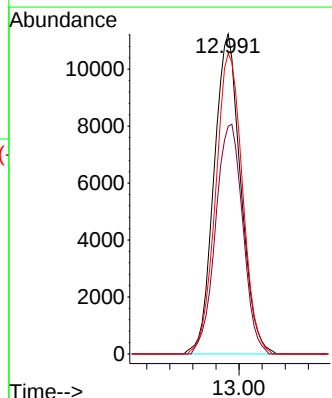
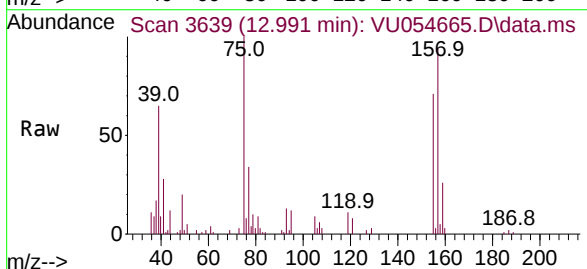
Tgt Ion: 75 Resp: 18021

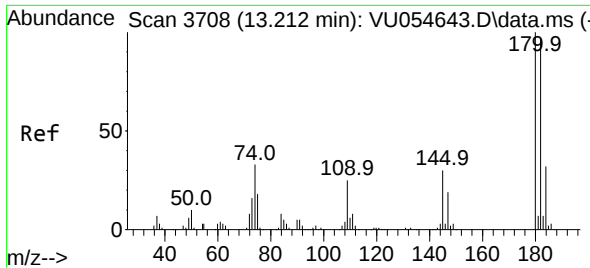
Ion Ratio Lower Upper

75 100

155 71.2 65.7 98.5

157 93.9 84.2 126.2



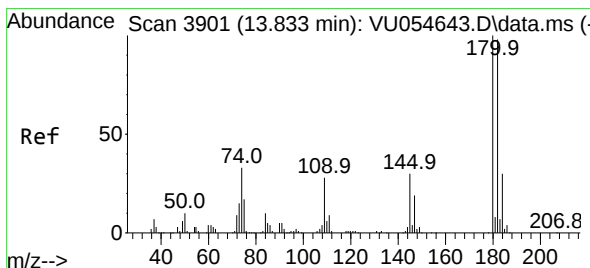
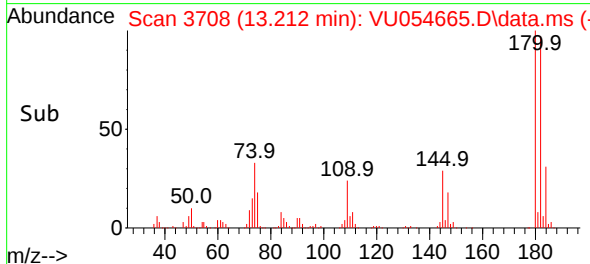
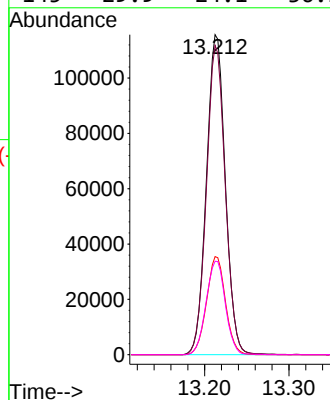
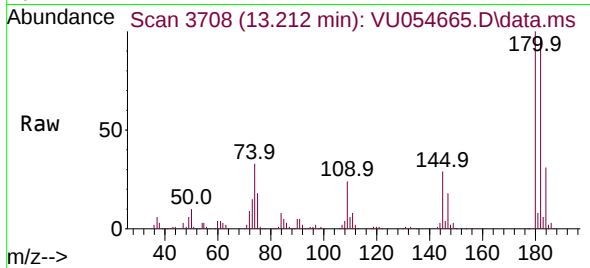


#69  
1,3,5-Trichlorobenzene  
Concen: 4.584 ug/L  
RT: 13.212 min Scan# 3708  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

Tgt Ion:180 Resp: 180404

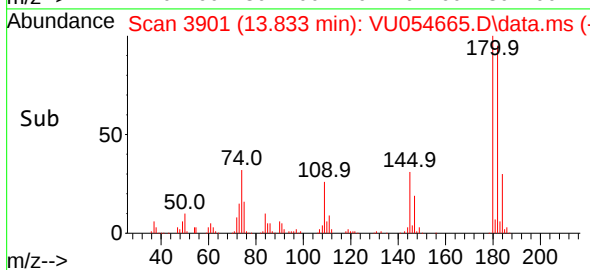
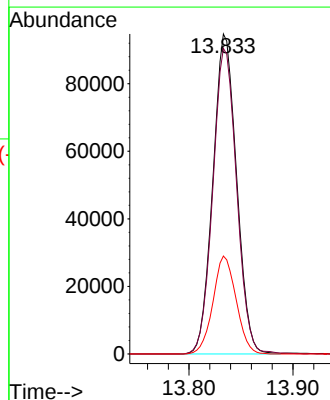
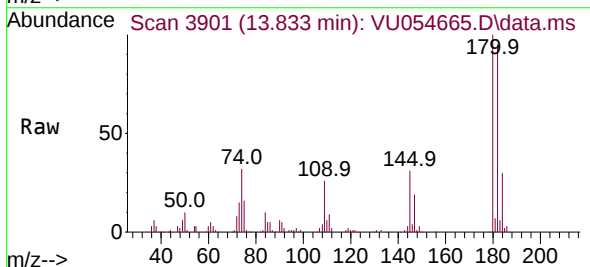
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.5  | 75.0  | 112.6 |
| 184 | 30.7  | 24.1  | 36.1  |
| 145 | 29.9  | 24.1  | 36.1  |

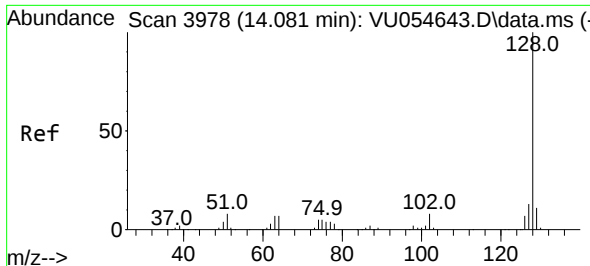


#70  
1,2,4-trichlorobenzene  
Concen: 4.604 ug/L  
RT: 13.833 min Scan# 3901  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Tgt Ion:180 Resp: 149835

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 96.1  | 76.6  | 114.8 |
| 145 | 29.9  | 24.0  | 36.0  |

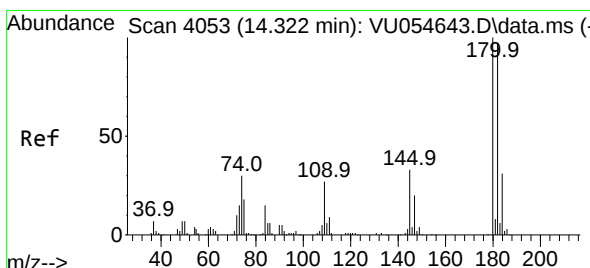
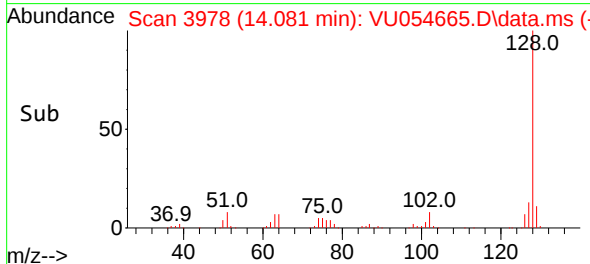
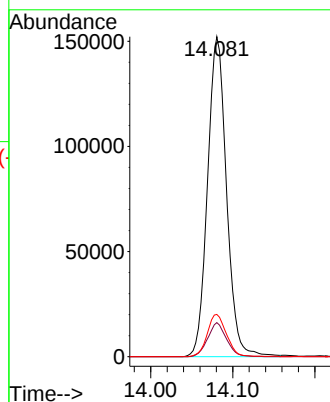
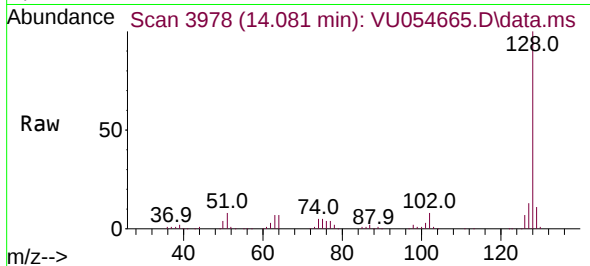




#71  
Naphthalene  
Concen: 4.626 ug/L  
RT: 14.081 min Scan# 3978  
Delta R.T. 0.000 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
YBW82MSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 244813 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 10.5  | 8.6   | 12.8   |
| 127      | 13.3  | 10.6  | 15.8   |



#72  
1,2,3-Trichlorobenzene  
Concen: 4.817 ug/L  
RT: 14.325 min Scan# 4054  
Delta R.T. 0.003 min  
Lab File: VU054665.D  
Acq: 22 Jun 2023 18:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 134670 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.7  | 75.4  | 113.2  |
| 145      | 31.8  | 26.0  | 39.0   |

