

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM022422\  
 Data File : BM034072.D  
 Acq On : 24 Feb 2022 18:04  
 Operator : CG/JU  
 Sample : N1650-02MS  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SW-SURFICIAL-SOIL-(SW-SS)MS

Quant Time: Feb 25 01:11:05 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM022222.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 22 17:55:56 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.013  | 152  | 159574   | 20.000  | ng    | -0.01    |
| 21) Naphthalene-d8            | 10.830 | 136  | 585568   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.648 | 164  | 363613   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.389 | 188  | 726646   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.559 | 240  | 685102   | 20.000  | ng    | # 0.00   |
| 86) Perylene-d12              | 24.018 | 264  | 709202   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.566  | 112  | 1179937  | 131.812 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.166  | 99   | 1325839  | 112.791 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.178  | 82   | 1004639  | 92.587  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.130 | 330  | 692709   | 156.967 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.277 | 172  | 2587307  | 94.800  | ng    | -0.01    |
| 79) Terphenyl-d14             | 20.006 | 244  | 3828470  | 97.309  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.437  | 88   | 147506   | 42.859  | ng    | # 47     |
| 3) Pyridine                   | 3.843  | 79   | 262044   | 27.102  | ng    | 90       |
| 4) n-Nitrosodimethylamine     | 3.743  | 42   | 243342   | 50.315  | ng    | 84       |
| 6) Aniline                    | 7.331  | 93   | 152522   | 11.743  | ng    | 93       |
| 8) 2-Chlorophenol             | 7.578  | 128  | 508115   | 50.737  | ng    | # 81     |
| 9) Benzaldehyde               | 7.142  | 77   | 199367   | 30.212  | ng    | 88       |
| 10) Phenol                    | 7.195  | 94   | 505171   | 43.692  | ng    | 93       |
| 11) bis(2-Chloroethyl)ether   | 7.431  | 93   | 427387   | 46.327  | ng    | 87       |
| 12) 1,3-Dichlorobenzene       | 7.901  | 146  | 603449   | 51.262  | ng    | # 93     |
| 13) 1,4-Dichlorobenzene       | 8.048  | 146  | 611218   | 50.799  | ng    | 93       |
| 14) 1,2-Dichlorobenzene       | 8.372  | 146  | 581851   | 49.548  | ng    | 95       |
| 15) Benzyl Alcohol            | 8.248  | 79   | 420556   | 46.397  | ng    | 94       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.548  | 45   | 503361   | 41.035  | ng    | 91       |
| 17) 2-Methylphenol            | 8.454  | 107  | 383615   | 47.105  | ng    | 96       |
| 18) Hexachloroethane          | 9.107  | 117  | 212135   | 51.516  | ng    | # 88     |
| 19) n-Nitroso-di-n-propyla... | 8.825  | 70   | 339901   | 44.737  | ng    | # 92     |
| 20) 3+4-Methylphenols         | 8.783  | 107  | 501482   | 44.596  | ng    | 95       |
| 22) Acetophenone              | 8.836  | 105  | 719636   | 50.879  | ng    | # 92     |
| 24) Nitrobenzene              | 9.219  | 77   | 525056   | 51.977  | ng    | # 87     |
| 25) Isophorone                | 9.748  | 82   | 887774   | 50.687  | ng    | # 92     |
| 26) 2-Nitrophenol             | 9.930  | 139  | 274489   | 57.670  | ng    | # 80     |
| 27) 2,4-Dimethylphenol        | 9.995  | 122  | 448423   | 58.314  | ng    | 93       |
| 28) bis(2-Chloroethoxy)met... | 10.230 | 93   | 541398   | 45.714  | ng    | 97       |
| 29) 2,4-Dichlorophenol        | 10.472 | 162  | 502622   | 52.864  | ng    | 94       |
| 30) 1,2,4-Trichlorobenzene    | 10.695 | 180  | 577681   | 51.755  | ng    | 96       |
| 31) Naphthalene               | 10.877 | 128  | 1530446  | 50.871  | ng    | 99       |
| 32) Benzoic acid              | 10.113 | 122  | 291533   | 50.059  | ng    | # 83     |
| 33) 4-Chloroaniline           | 10.983 | 127  | 89534    | 7.268   | ng    | # 89     |
| 34) Hexachlorobutadiene       | 11.177 | 225  | 376740   | 53.122  | ng    | 97       |
| 35) Caprolactam               | 11.754 | 113  | 111894   | 58.381  | ng    | # 58     |
| 36) 4-Chloro-3-methylphenol   | 12.101 | 107  | 460450   | 49.183  | ng    | # 84     |
| 37) 2-Methylnaphthalene       | 12.483 | 142  | 1118799  | 50.972  | ng    | 96       |
| 38) 1-Methylnaphthalene       | 12.701 | 142  | 1046571  | 48.903  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.854 | 216  | 659541   | 56.735  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.842 | 237  | 908776   | 133.824 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 13.083 | 196  | 420352   | 57.181  | ng    | 98       |

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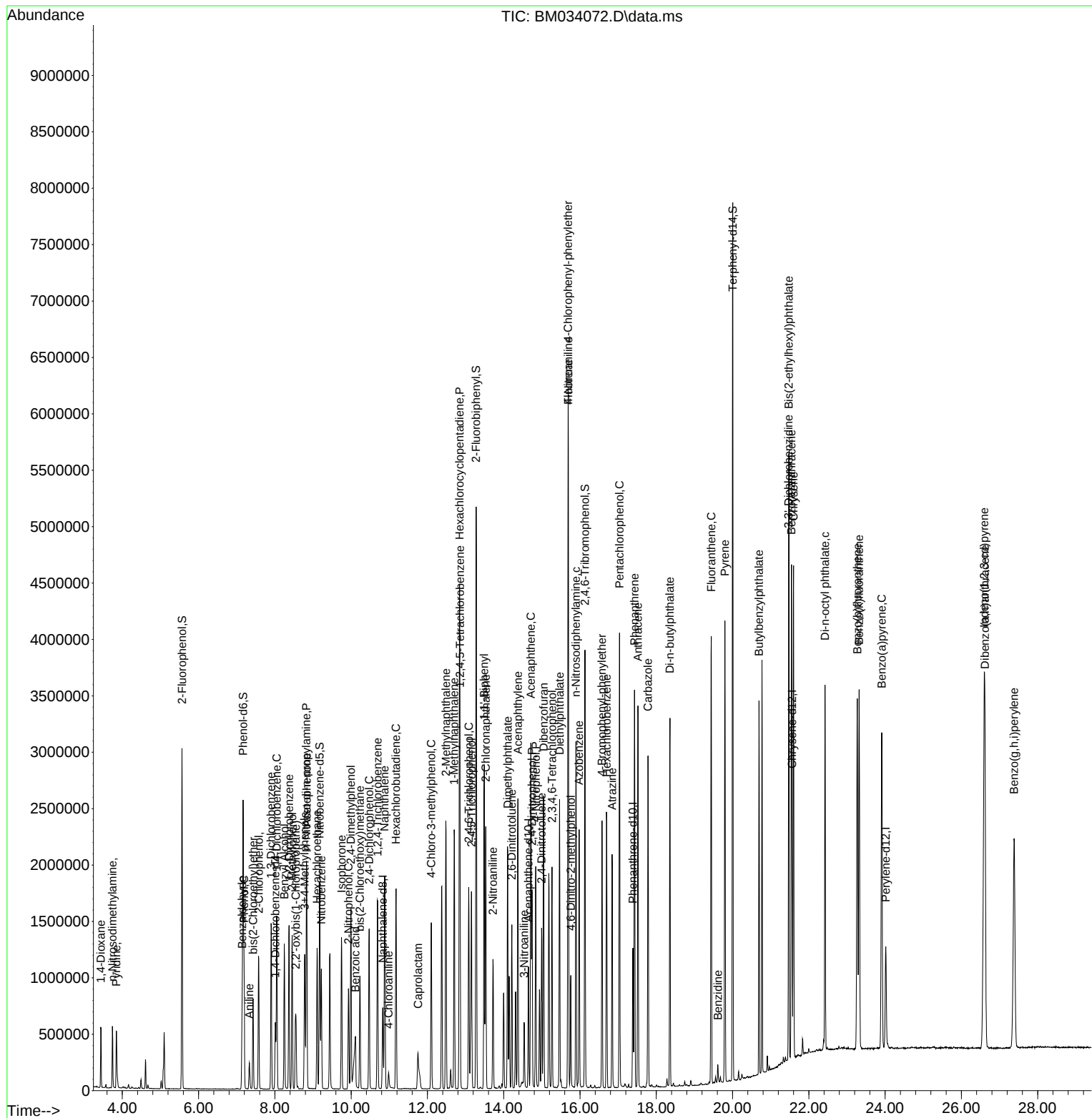
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.154 | 196  | 450289   | 60.296  | ng    | # 90     |
| 46) 1,1'-Biphenyl             | 13.489 | 154  | 1471664  | 52.973  | ng    | 96       |
| 47) 2-Chloronaphthalene       | 13.530 | 162  | 1146193  | 52.837  | ng    | 94       |
| 48) 2-Nitroaniline            | 13.718 | 65   | 284358   | 55.196  | ng    | # 76     |
| 49) Acenaphthylene            | 14.371 | 152  | 1773190  | 54.542  | ng    | 99       |
| 50) Dimethylphthalate         | 14.107 | 163  | 1387965  | 51.487  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.213 | 165  | 300384   | 56.312  | ng    | 85       |
| 52) Acenaphthene              | 14.713 | 154  | 1270163  | 59.127  | ng    | 99       |
| 53) 3-Nitroaniline            | 14.536 | 138  | 148071   | 27.752  | ng    | # 76     |
| 54) 2,4-Dinitrophenol         | 14.742 | 184  | 371510   | 122.702 | ng    | # 80     |
| 55) Dibenzofuran              | 15.048 | 168  | 1697263  | 50.581  | ng    | 98       |
| 56) 4-Nitrophenol             | 14.842 | 139  | 462436   | 107.229 | ng    | # 80     |
| 57) 2,4-Dinitrotoluene        | 14.995 | 165  | 411805   | 59.366  | ng    | # 77     |
| 58) Fluorene                  | 15.695 | 166  | 1409141  | 52.240  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 15.265 | 232  | 390010   | 53.316  | ng    | # 90     |
| 60) Diethylphthalate          | 15.465 | 149  | 1385369  | 51.393  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.689 | 204  | 737605   | 51.063  | ng    | 93       |
| 62) 4-Nitroaniline            | 15.695 | 138  | 276142   | 49.871  | ng    | 86       |
| 63) Azobenzene                | 15.977 | 77   | 1123006  | 47.958  | ng    | 93       |
| 65) 4,6-Dinitro-2-methylph... | 15.759 | 198  | 227205   | 53.345  | ng    | # 70     |
| 66) n-Nitrosodiphenylamine    | 15.895 | 169  | 1180718  | 51.901  | ng    | 98       |
| 67) 4-Bromophenyl-phenylether | 16.577 | 248  | 455268   | 55.462  | ng    | 92       |
| 68) Hexachlorobenzene         | 16.701 | 284  | 520788   | 55.063  | ng    | # 87     |
| 69) Atrazine                  | 16.842 | 200  | 402210   | 53.448  | ng    | 96       |
| 70) Pentachlorophenol         | 17.036 | 266  | 681755   | 119.316 | ng    | 99       |
| 71) Phenanthrene              | 17.430 | 178  | 2121010  | 52.621  | ng    | 99       |
| 72) Anthracene                | 17.518 | 178  | 2151970  | 54.863  | ng    | 99       |
| 73) Carbazole                 | 17.783 | 167  | 1854841  | 50.222  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.359 | 149  | 2258737  | 53.763  | ng    | 99       |
| 75) Fluoranthene              | 19.442 | 202  | 2401085  | 54.221  | ng    | 96       |
| 77) Benzidine                 | 19.618 | 184  | 101651   | 7.967   | ng    | 99       |
| 78) Pyrene                    | 19.800 | 202  | 2453426  | 52.144  | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.694 | 149  | 931777   | 52.005  | ng    | 89       |
| 81) Benzo(a)anthracene        | 21.541 | 228  | 2314528  | 51.922  | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.471 | 252  | 492052   | 32.684  | ng    | 98       |
| 83) Chrysene                  | 21.600 | 228  | 2225245  | 52.258  | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 21.477 | 149  | 1387114  | 50.680  | ng    | # 98     |
| 85) Di-n-octyl phthalate      | 22.424 | 149  | 2212999  | 51.015  | ng    | # 90     |
| 87) Indeno(1,2,3-cd)pyrene    | 26.600 | 276  | 3025195  | 59.999  | ng    | # 95     |
| 88) Benzo(b)fluoranthene      | 23.271 | 252  | 2427912  | 54.628  | ng    | # 98     |
| 89) Benzo(k)fluoranthene      | 23.318 | 252  | 2357914  | 53.182  | ng    | # 97     |
| 90) Benzo(a)pyrene            | 23.912 | 252  | 2352982  | 64.427  | ng    | # 97     |
| 91) Dibenzo(a,h)anthracene    | 26.618 | 278  | 2616014  | 61.692  | ng    | 96       |
| 92) Benzo(g,h,i)perylene      | 27.382 | 276  | 2643322  | 64.347  | ng    | 97       |

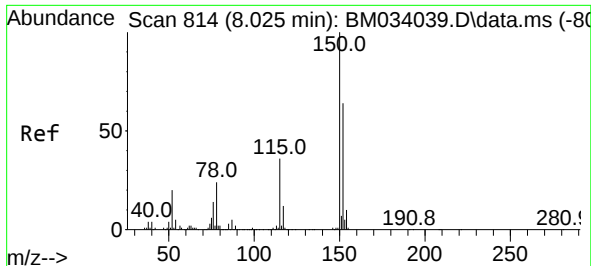
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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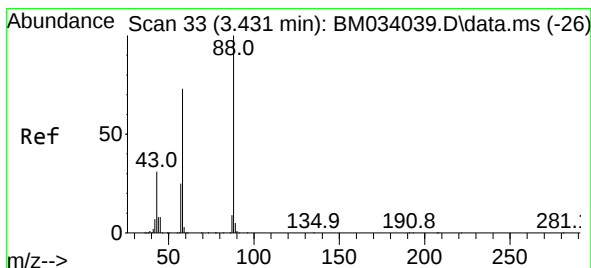
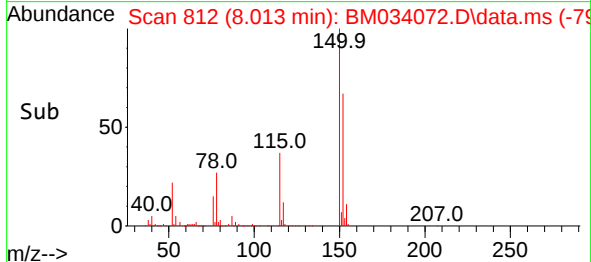
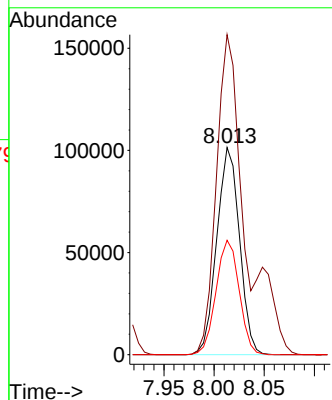
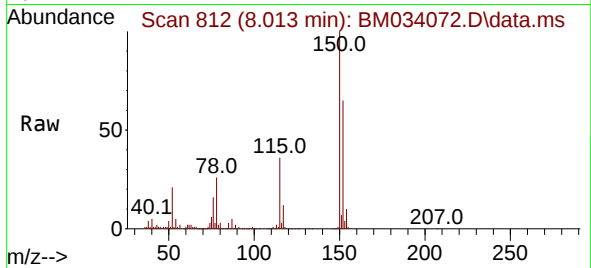




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.013 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

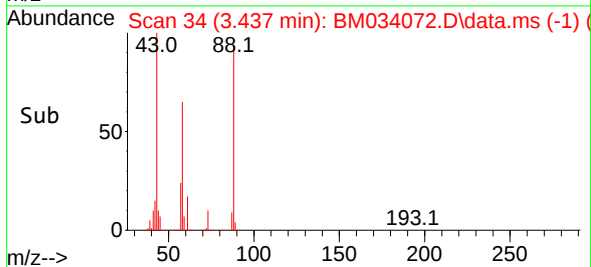
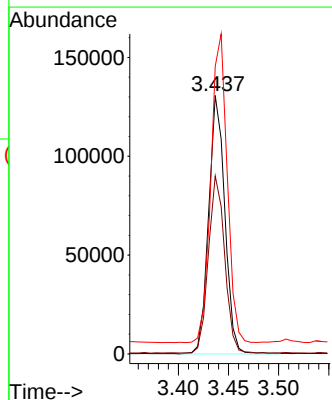
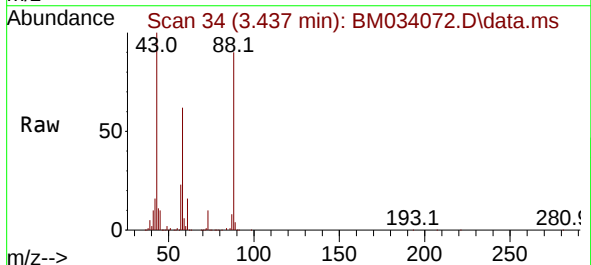
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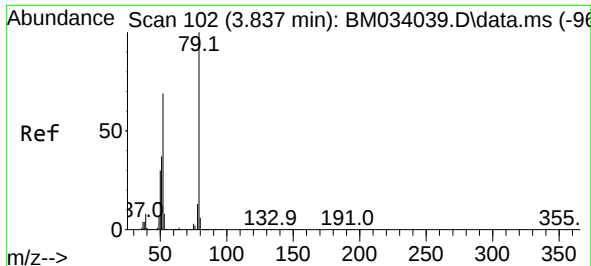
Tgt Ion:152 Resp: 159574  
Ion Ratio Lower Upper  
152 100  
150 154.5 128.9 193.3  
115 55.3 53.0 79.6



#2  
1,4-Dioxane  
Concen: 42.859 ng  
RT: 3.437 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion: 88 Resp: 147506  
Ion Ratio Lower Upper  
88 100  
58 68.9 67.0 100.4  
43 119.3 31.6 47.4#

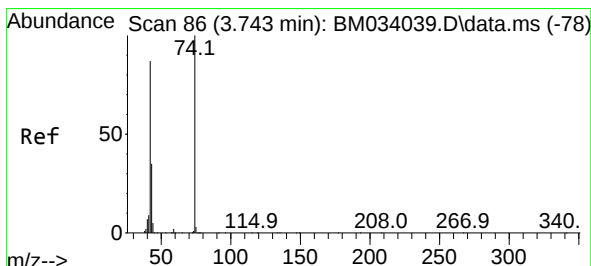
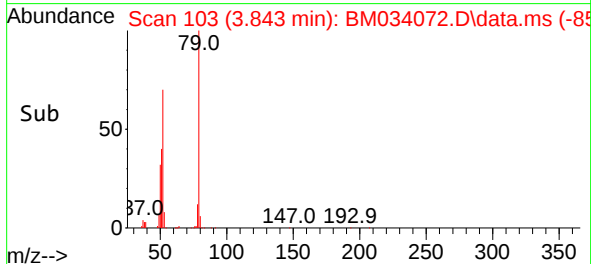
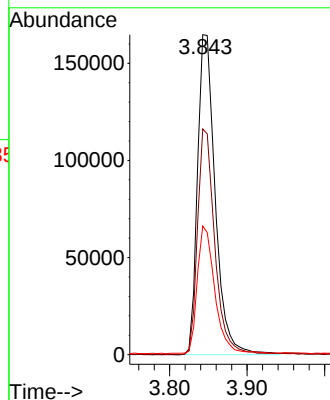
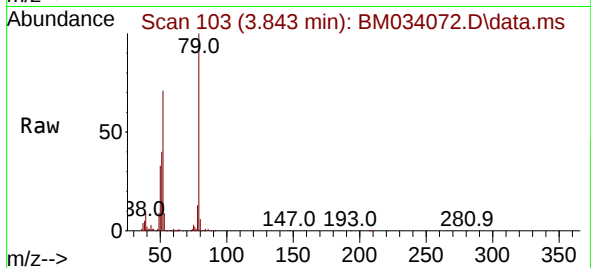




#3  
Pyridine  
Concen: 27.102 ng  
RT: 3.843 min Scan# 102  
Delta R.T. 0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

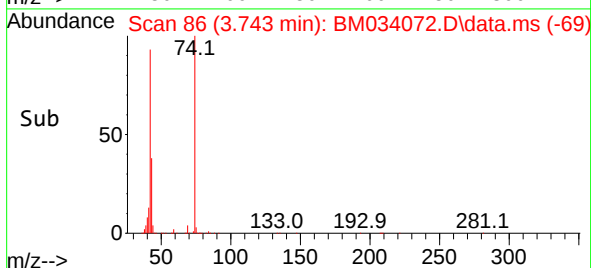
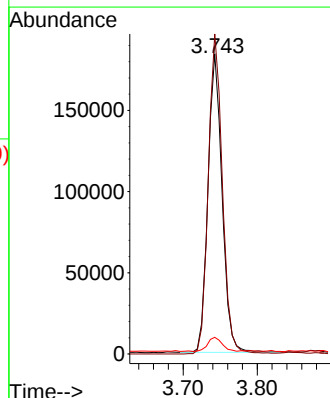
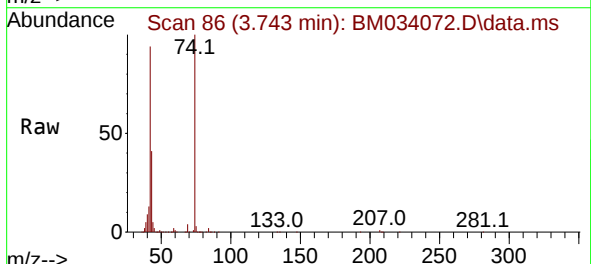
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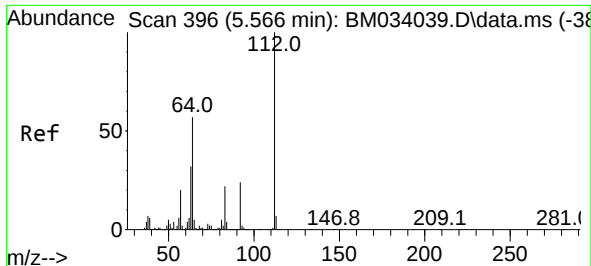
Tgt Ion: 79 Resp: 262044  
Ion Ratio Lower Upper  
79 100  
52 70.5 65.4 98.2  
51 40.2 34.8 52.2



#4  
n-Nitrosodimethylamine  
Concen: 50.315 ng  
RT: 3.743 min Scan# 86  
Delta R.T. -0.000 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion: 42 Resp: 243342  
Ion Ratio Lower Upper  
42 100  
74 106.5 72.5 108.7  
44 5.6 5.4 8.2

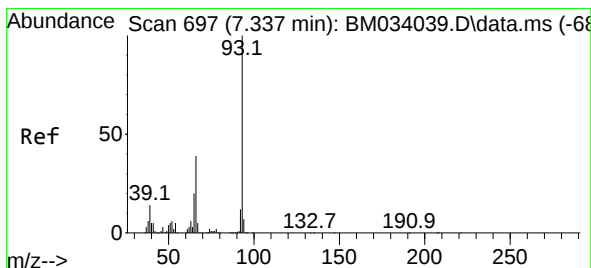
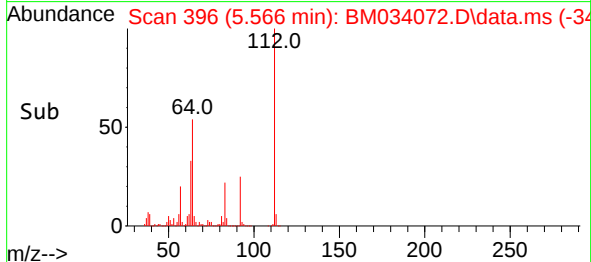
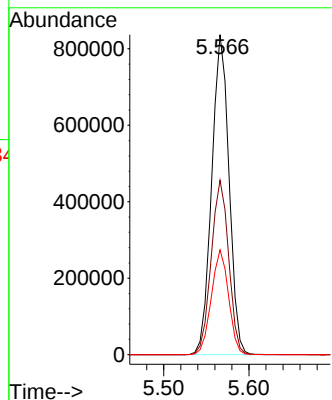
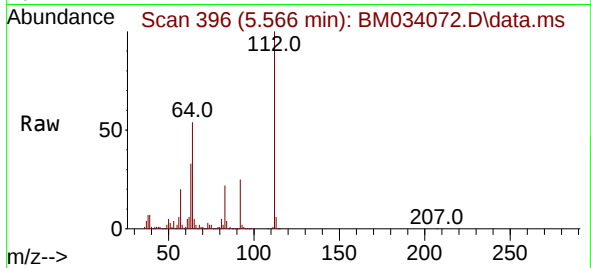




#5  
2-Fluorophenol  
Concen: 131.812 ng  
RT: 5.566 min Scan# 396  
Delta R.T. -0.000 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

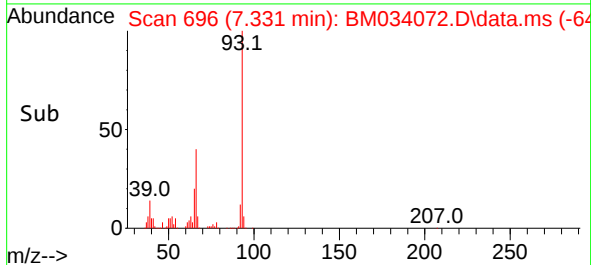
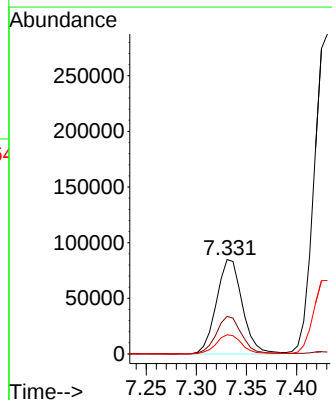
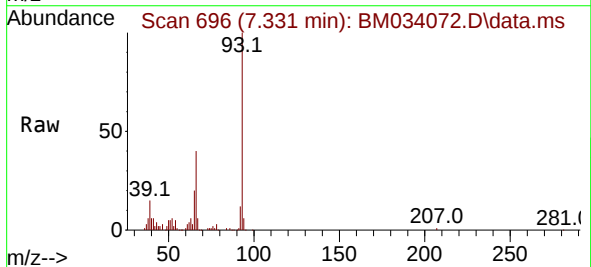
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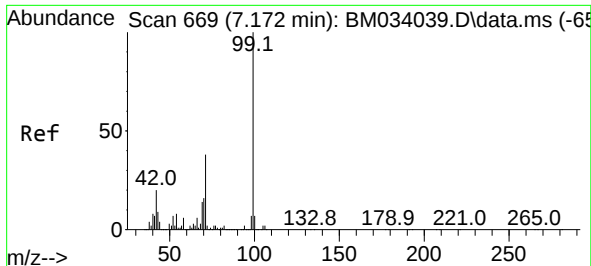
Tgt Ion:112 Resp: 1179937  
Ion Ratio Lower Upper  
112 100  
64 54.5 55.5 83.3#  
63 32.7 31.3 46.9



#6  
Aniline  
Concen: 11.743 ng  
RT: 7.331 min Scan# 696  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion: 93 Resp: 152522  
Ion Ratio Lower Upper  
93 100  
66 39.8 36.0 54.0  
65 20.3 18.2 27.4

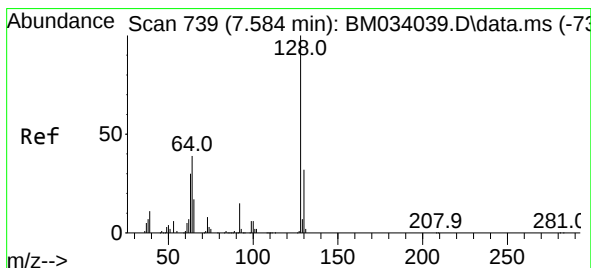
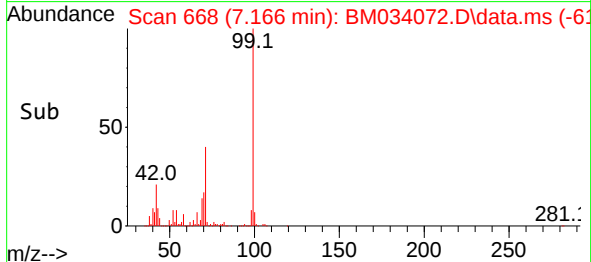
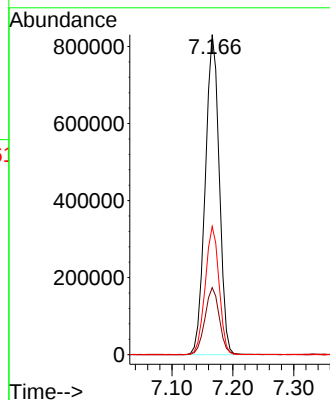
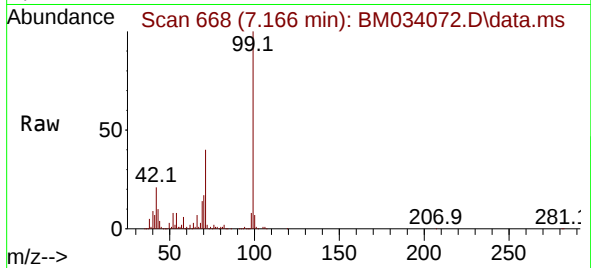




#7  
Phenol-d6  
Concen: 112.791 ng  
RT: 7.166 min Scan# 669  
Delta R.T. -0.006 min  
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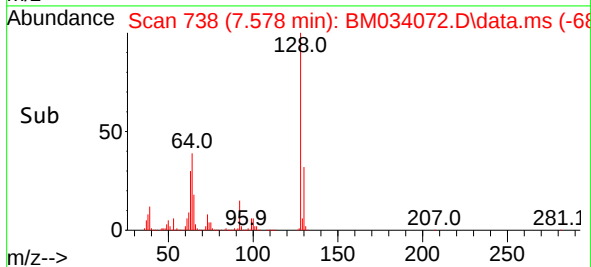
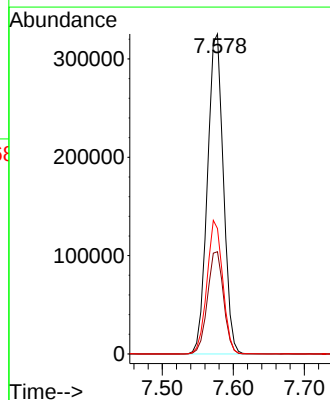
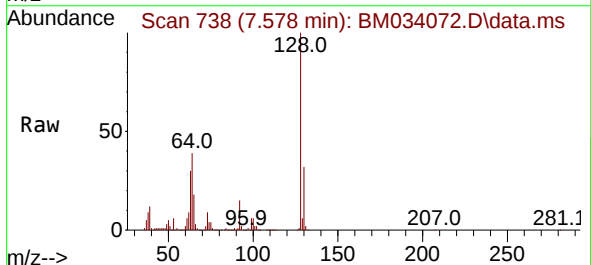
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ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

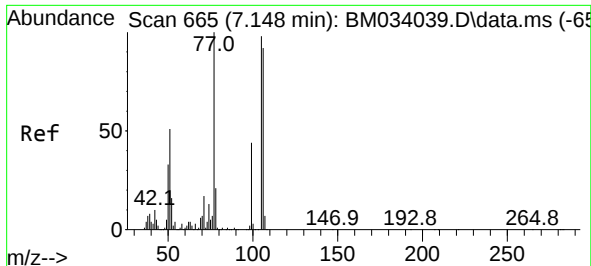
Tgt Ion: 99 Resp: 1325839  
Ion Ratio Lower Upper  
99 100  
42 21.0 20.3 30.5  
71 40.1 34.5 51.7



#8  
2-Chlorophenol  
Concen: 50.737 ng  
RT: 7.578 min Scan# 738  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion: 128 Resp: 508115  
Ion Ratio Lower Upper  
128 100  
130 32.0 10.9 50.9  
64 39.2 40.6 80.6#

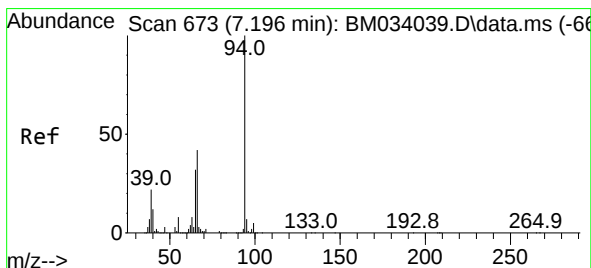
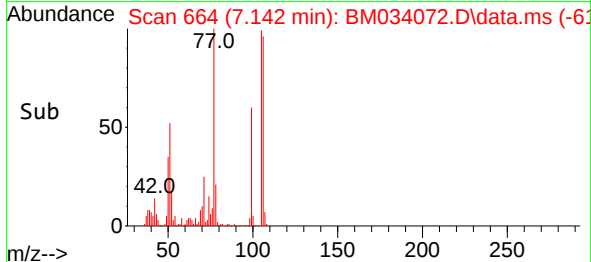
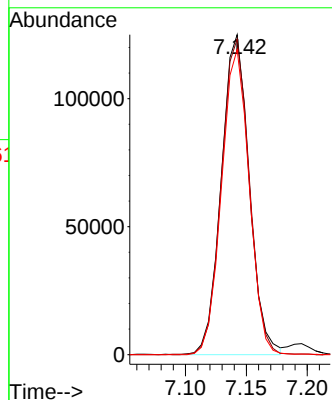
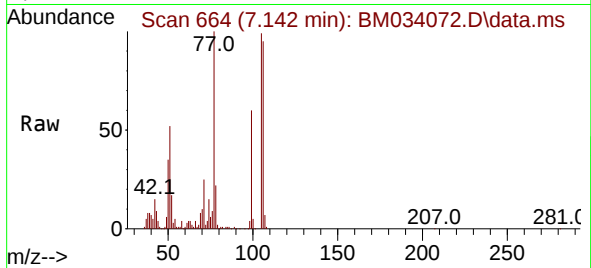




#9  
Benzaldehyde  
Concen: 30.212 ng  
RT: 7.142 min Scan# 665  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

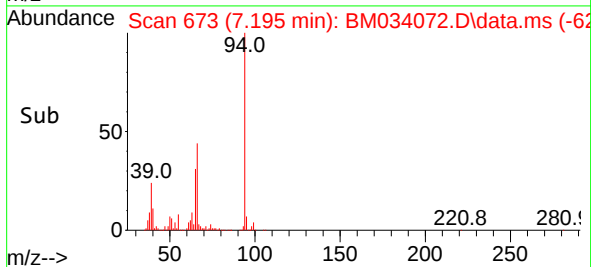
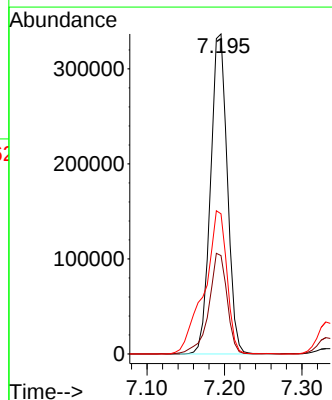
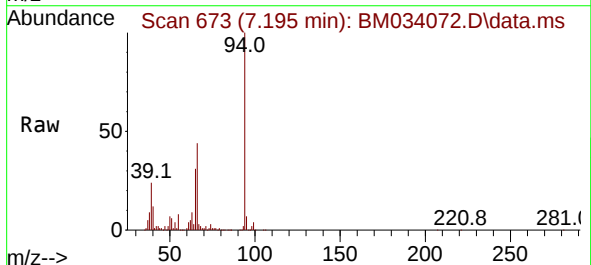
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

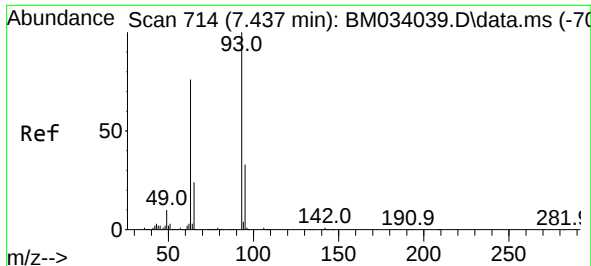
Tgt Ion: 77 Resp: 199367  
Ion Ratio Lower Upper  
77 100  
105 98.7 67.1 107.1  
106 95.4 64.3 104.3



#10  
Phenol  
Concen: 43.692 ng  
RT: 7.195 min Scan# 673  
Delta R.T. -0.000 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion: 94 Resp: 505171  
Ion Ratio Lower Upper  
94 100  
65 30.7 15.5 55.5  
66 43.8 28.5 68.5

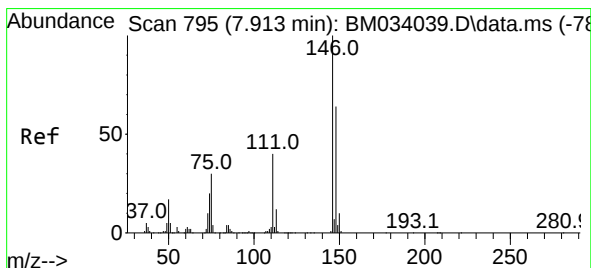
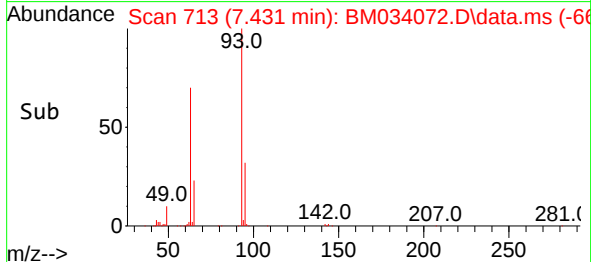
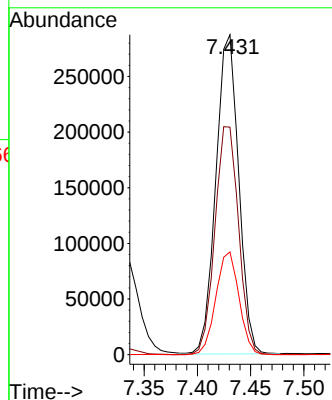
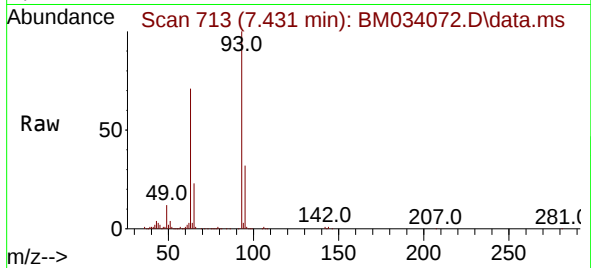




#11  
bis(2-Chloroethyl)ether  
Concen: 46.327 ng  
RT: 7.431 min Scan# 714  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

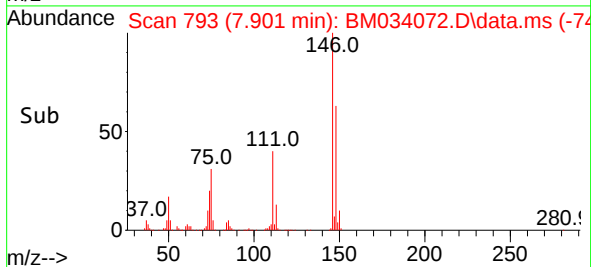
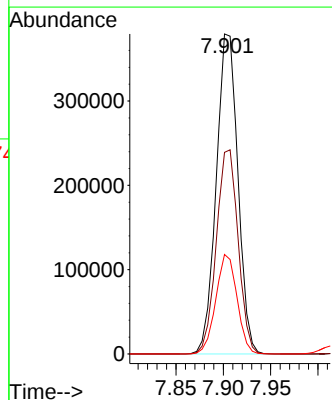
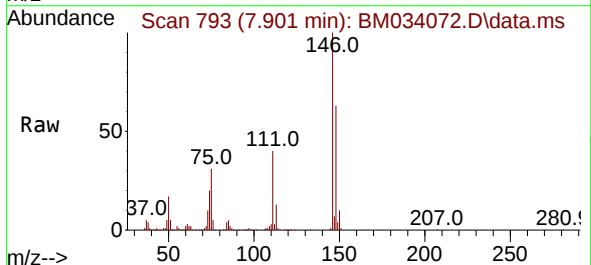
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

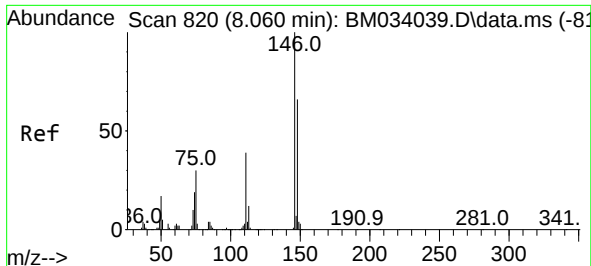
Tgt Ion: 93 Resp: 427387  
Ion Ratio Lower Upper  
93 100  
63 71.1 67.0 107.0  
95 32.1 11.6 51.6



#12  
1,3-Dichlorobenzene  
Concen: 51.262 ng  
RT: 7.901 min Scan# 793  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:146 Resp: 603449  
Ion Ratio Lower Upper  
146 100  
148 63.0 52.1 78.1  
75 31.1 32.0 48.0#





#13

1,4-Dichlorobenzene

Concen: 50.799 ng

RT: 8.048 min Scan# 81

Delta R.T. -0.012 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

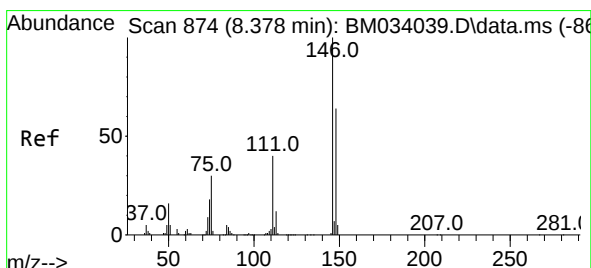
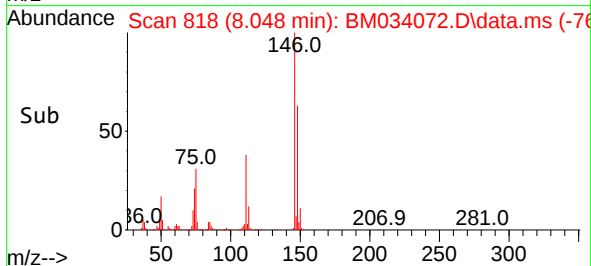
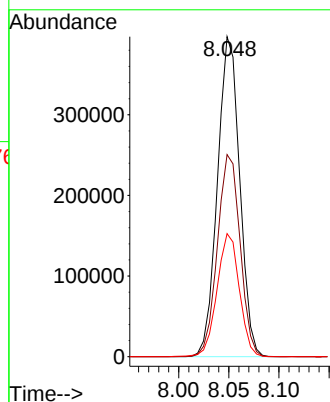
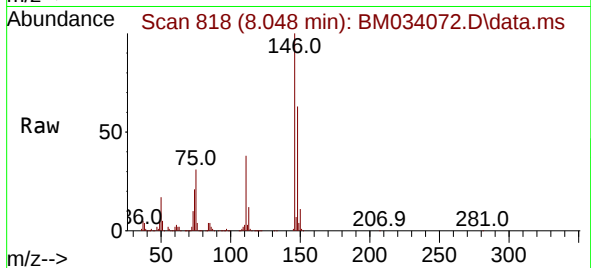
Tgt Ion:146 Resp: 611218

Ion Ratio Lower Upper

146 100

148 63.2 53.4 80.0

111 38.5 36.6 55.0



#14

1,2-Dichlorobenzene

Concen: 49.548 ng

RT: 8.372 min Scan# 873

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

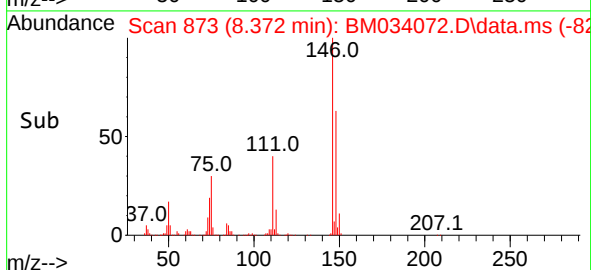
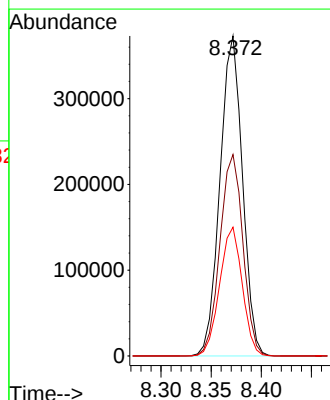
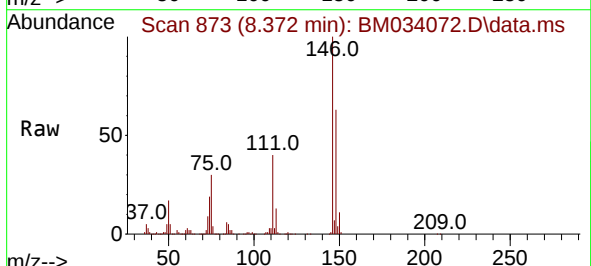
Tgt Ion:146 Resp: 581851

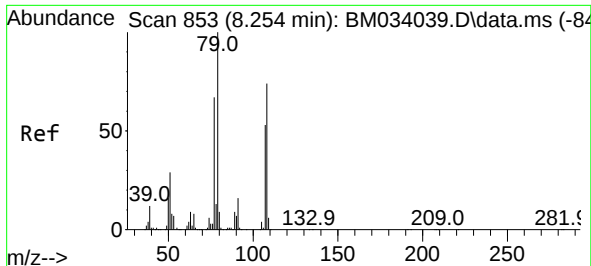
Ion Ratio Lower Upper

146 100

148 62.9 50.9 76.3

111 40.2 37.8 56.8

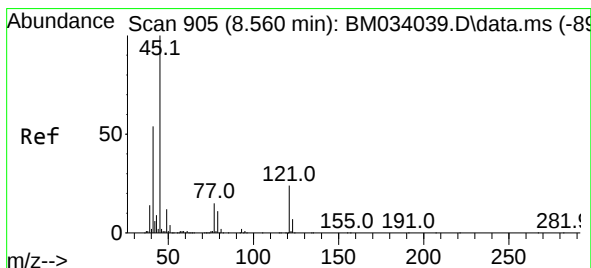
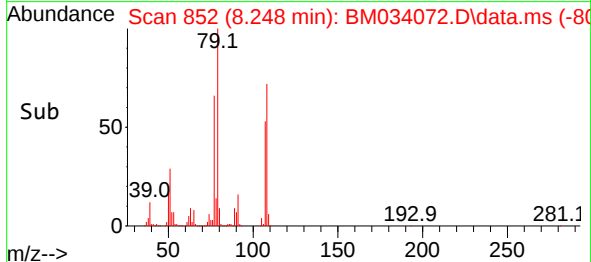
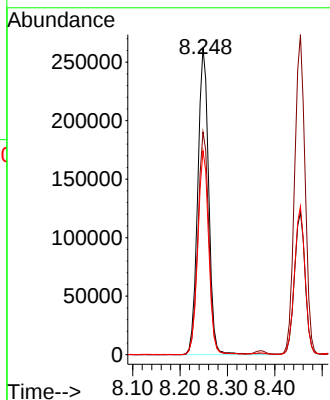
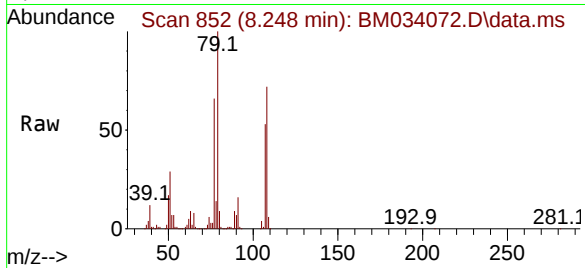




#15  
Benzyl Alcohol  
Concen: 46.397 ng  
RT: 8.248 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

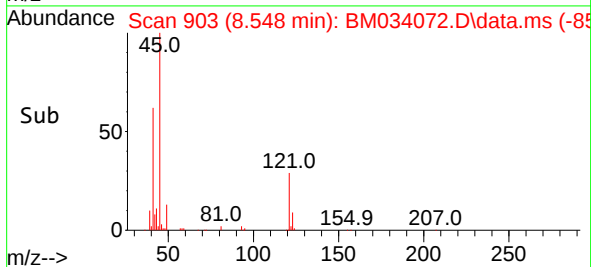
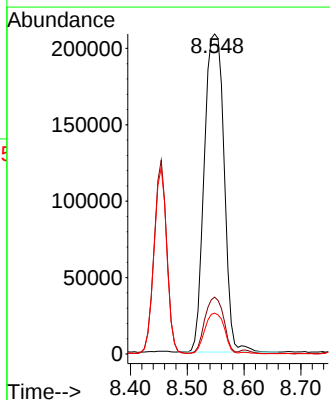
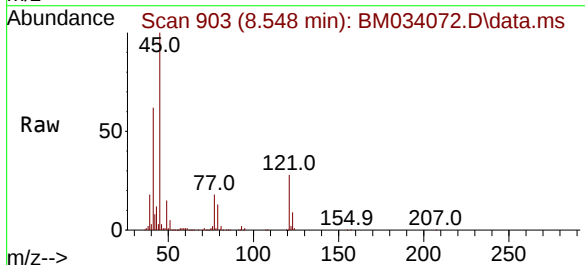
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

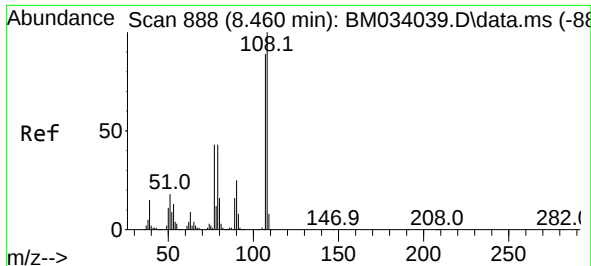
Tgt Ion: 79 Resp: 420556  
Ion Ratio Lower Upper  
79 100  
108 72.5 51.1 76.7  
77 66.4 53.8 80.8



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 41.035 ng  
RT: 8.548 min Scan# 903  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion: 45 Resp: 503361  
Ion Ratio Lower Upper  
45 100  
77 17.7 0.0 33.7  
79 12.8 0.0 30.0

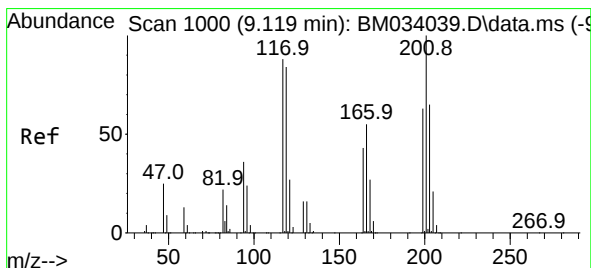
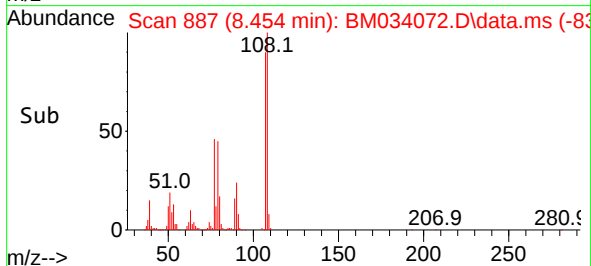
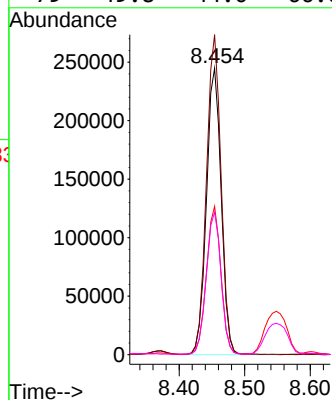
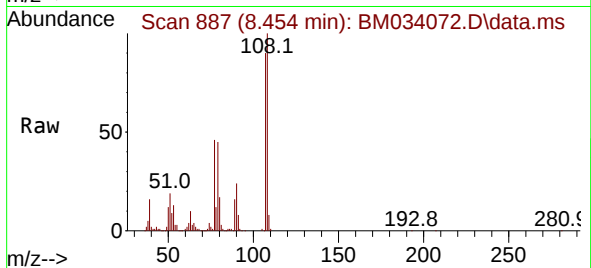




#17  
2-Methylphenol  
Concen: 47.105 ng  
RT: 8.454 min Scan# 811  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

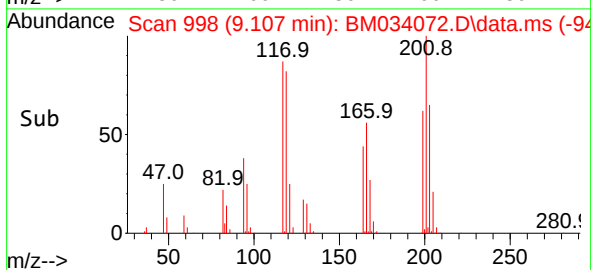
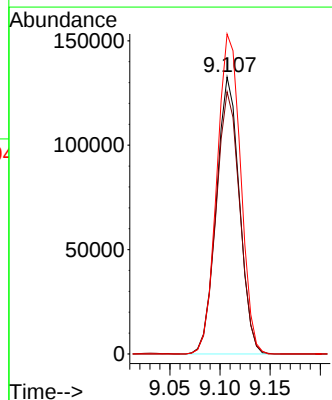
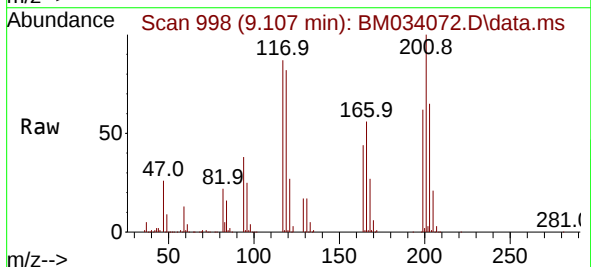
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

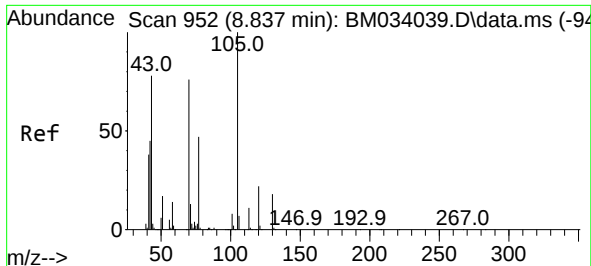
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 383615 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 108       | 111.7 | 89.2  | 133.8  |
| 77        | 51.8  | 46.0  | 69.0   |
| 79        | 49.8  | 44.0  | 66.0   |



#18  
Hexachloroethane  
Concen: 51.516 ng  
RT: 9.107 min Scan# 998  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 212135 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 94.7  | 75.0  | 112.6  |
| 201       | 115.5 | 75.2  | 112.8  |





#19

n-Nitroso-di-n-propylamine

Concen: 44.737 ng

RT: 8.825 min Scan# 91

Delta R.T. -0.012 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

Tgt Ion: 70 Resp: 339901

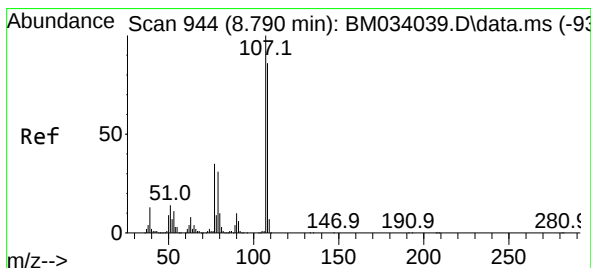
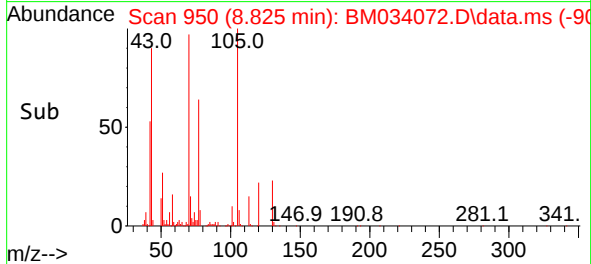
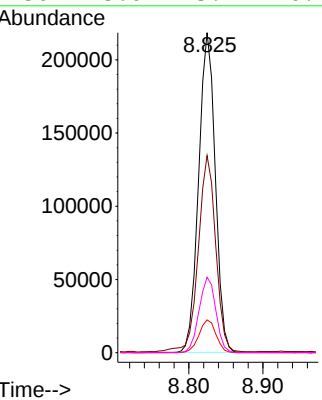
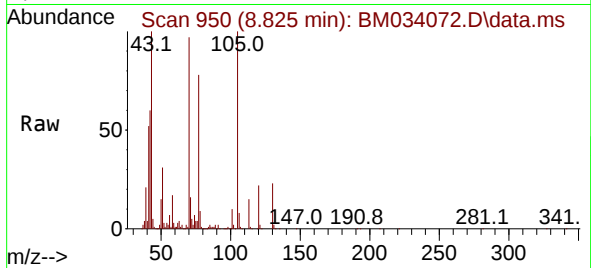
Ion Ratio Lower Upper

70 100

42 61.6 54.1 81.1

101 10.2 7.8 11.6

130 23.6 13.9 20.9#



#20

3+4-Methylphenols

Concen: 44.596 ng

RT: 8.783 min Scan# 943

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Tgt Ion: 107 Resp: 501482

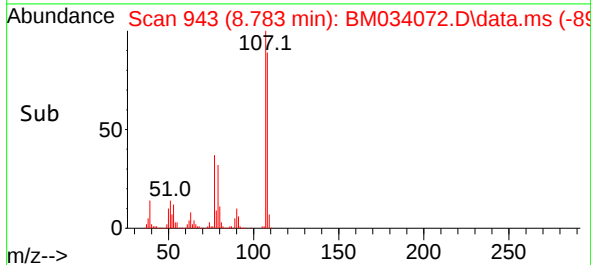
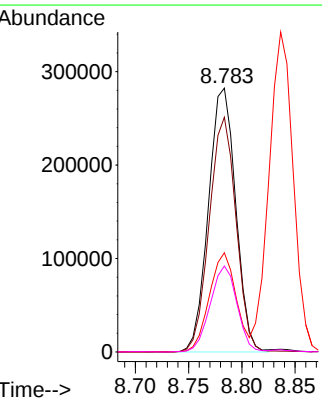
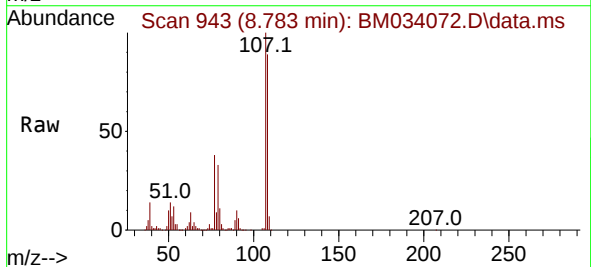
Ion Ratio Lower Upper

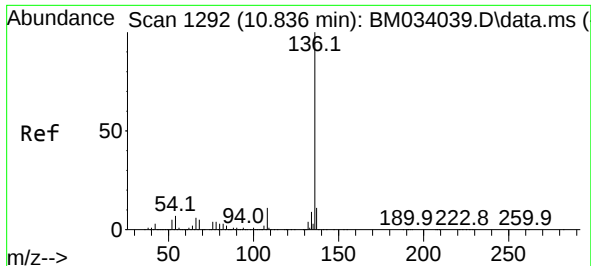
107 100

108 88.9 64.2 104.2

77 37.6 22.7 62.7

79 32.6 13.9 53.9

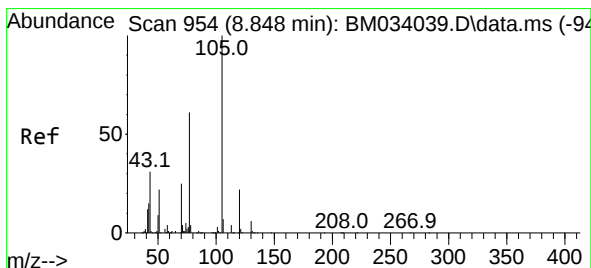
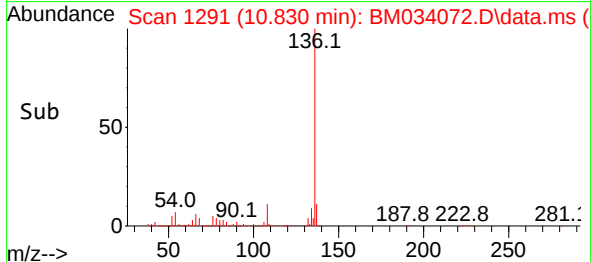
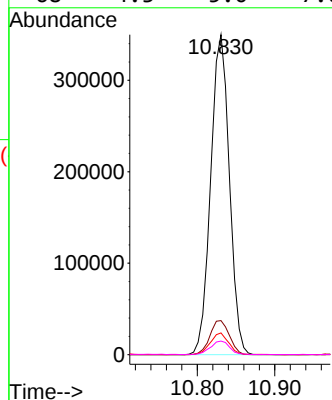
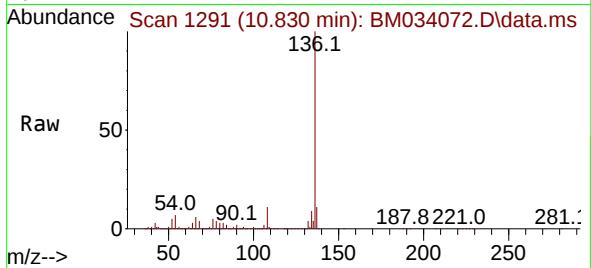




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.830 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

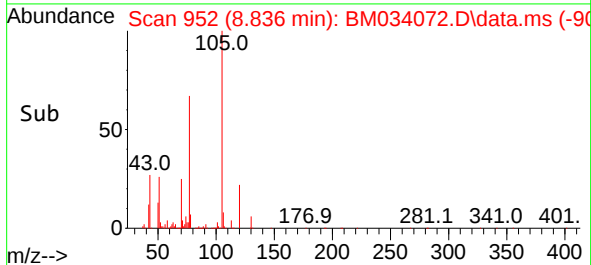
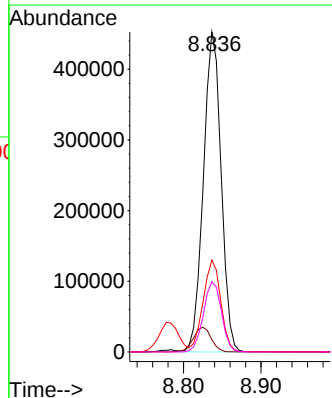
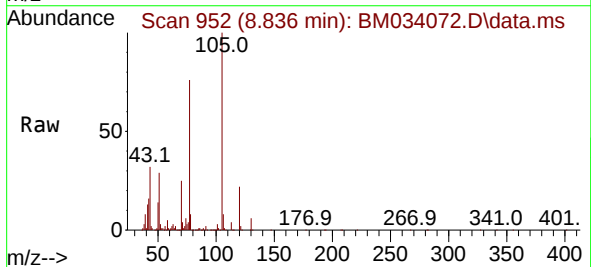
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

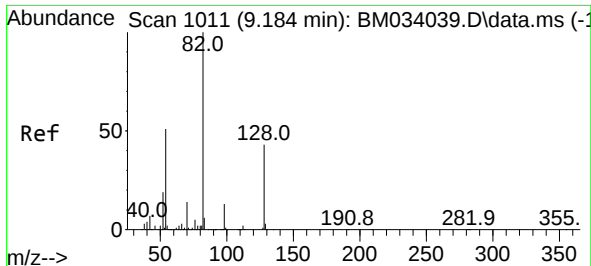
Tgt Ion:136 Resp: 585568  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.6 13.0  
54 6.8 8.3 12.5#  
68 4.3 5.0 7.6#



#22  
Acetophenone  
Concen: 50.879 ng  
RT: 8.836 min Scan# 952  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:105 Resp: 719636  
Ion Ratio Lower Upper  
105 100  
71 3.9 1.6 2.4#  
51 28.6 27.7 41.5  
120 22.0 16.2 24.2

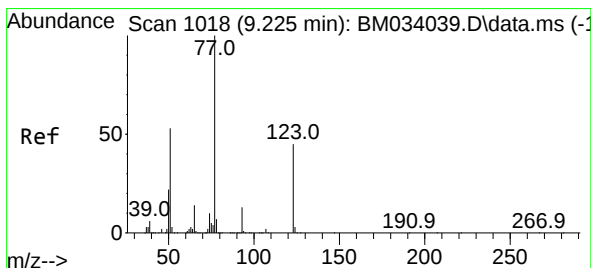
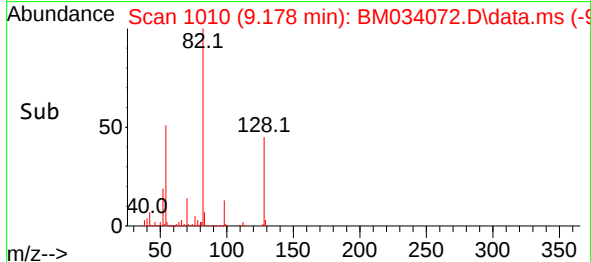
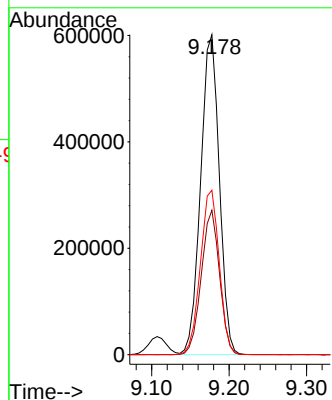
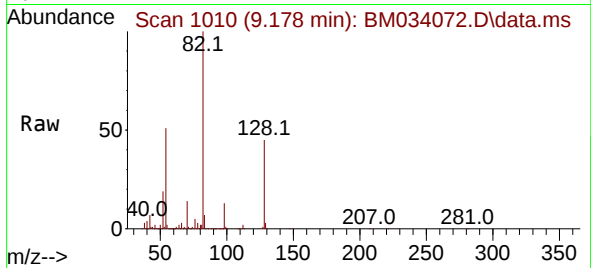




#23  
Nitrobenzene-d5  
Concen: 92.587 ng  
RT: 9.178 min Scan# 1010  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

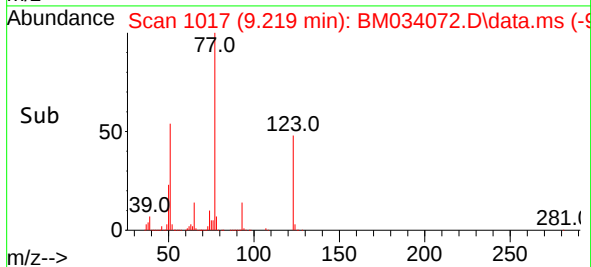
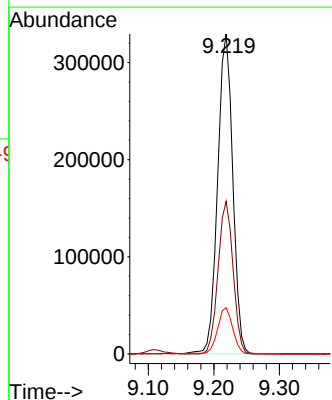
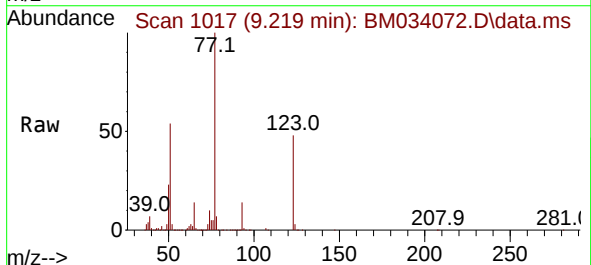
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

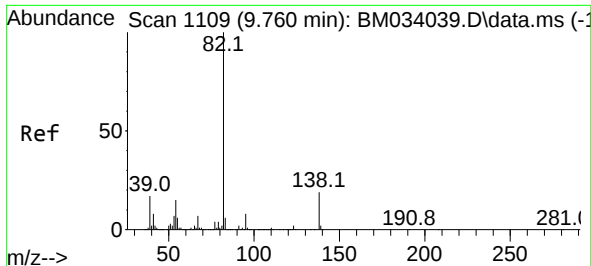
Tgt Ion: 82 Resp: 1004639  
Ion Ratio Lower Upper  
82 100  
128 45.1 28.1 42.1#  
54 51.4 46.1 69.1



#24  
Nitrobenzene  
Concen: 51.977 ng  
RT: 9.219 min Scan# 1017  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion: 77 Resp: 525056  
Ion Ratio Lower Upper  
77 100  
123 47.7 29.8 44.8#  
65 14.5 11.5 17.3

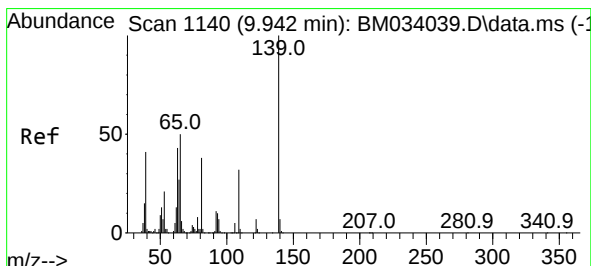
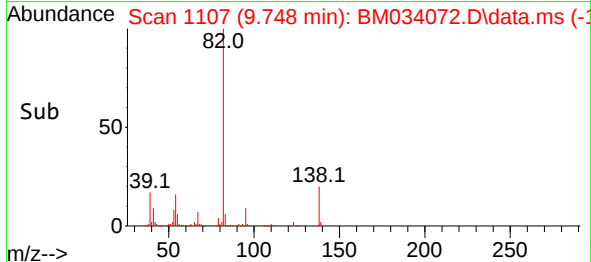
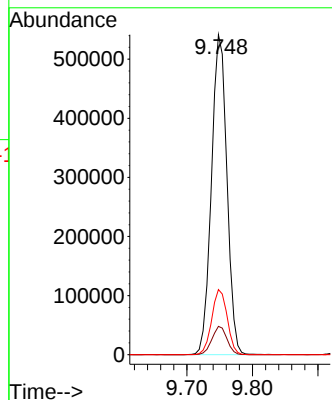
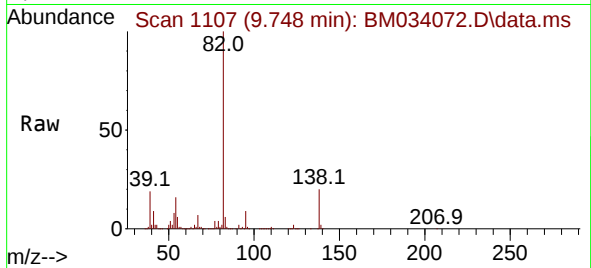




#25  
Isophorone  
Concen: 50.687 ng  
RT: 9.748 min Scan# 1107  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

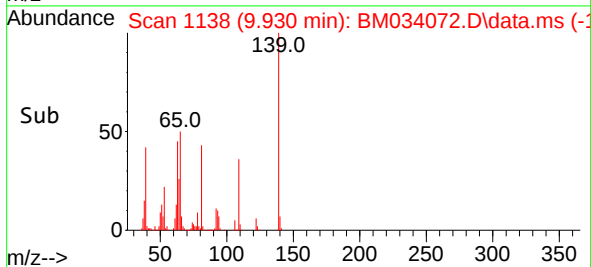
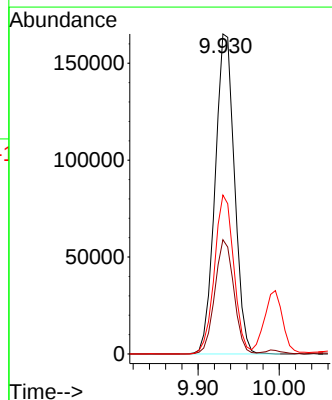
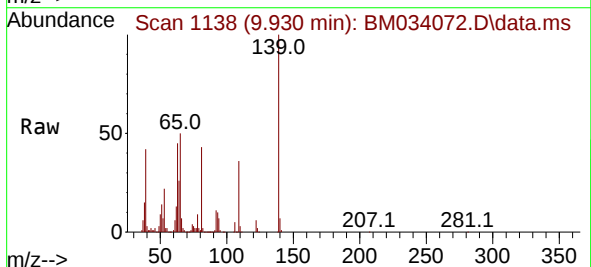
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BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

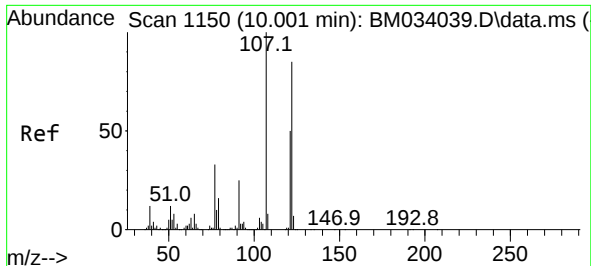
Tgt Ion: 82 Resp: 887774  
Ion Ratio Lower Upper  
82 100  
95 8.9 6.4 9.6  
138 20.3 12.4 18.6#



#26  
2-Nitrophenol  
Concen: 57.670 ng  
RT: 9.930 min Scan# 1138  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:139 Resp: 274489  
Ion Ratio Lower Upper  
139 100  
109 35.7 33.0 49.6  
65 49.6 57.2 85.8#





#27

2,4-Dimethylphenol

Concen: 58.314 ng

RT: 9.995 min Scan# 1149

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

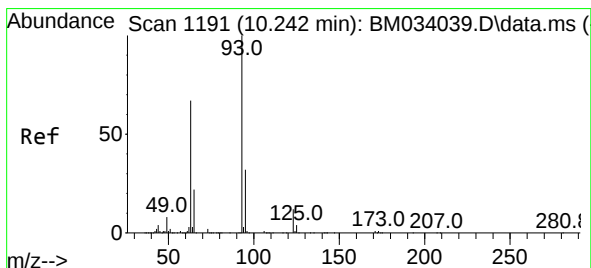
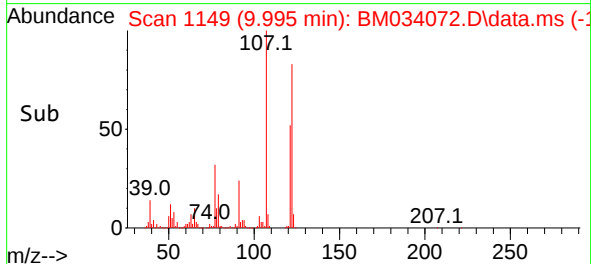
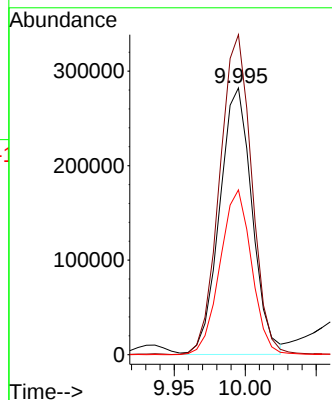
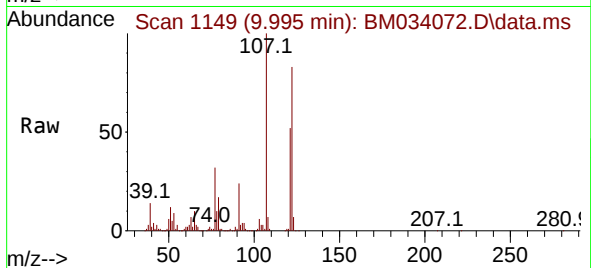
Tgt Ion:122 Resp: 448423

Ion Ratio Lower Upper

122 100

107 120.0 105.3 157.9

121 61.8 49.7 74.5



#28

bis(2-Chloroethoxy)methane

Concen: 45.714 ng

RT: 10.230 min Scan# 1189

Delta R.T. -0.012 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

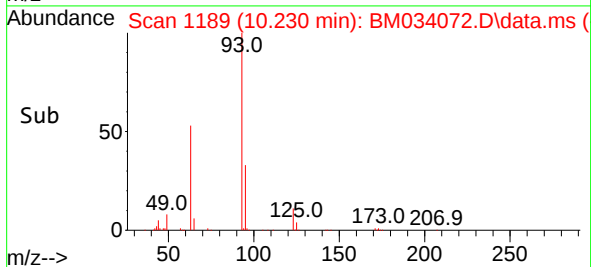
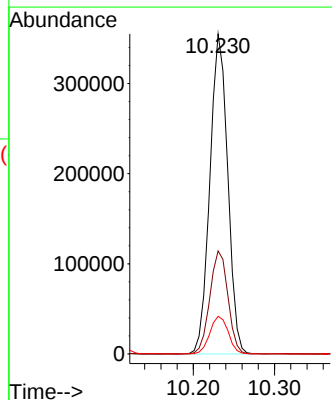
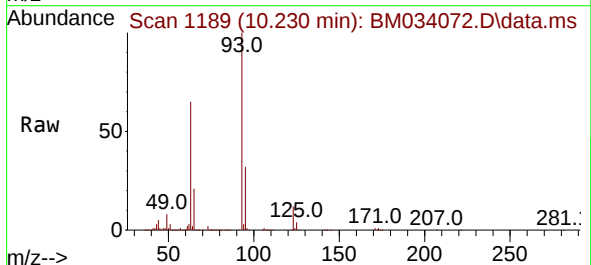
Tgt Ion: 93 Resp: 541398

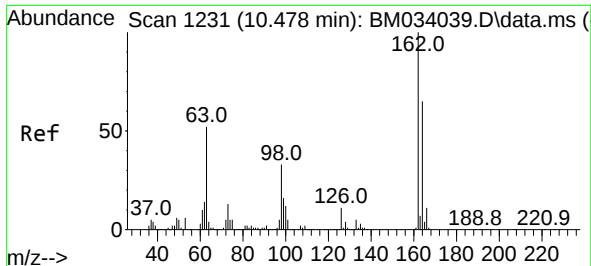
Ion Ratio Lower Upper

93 100

95 32.2 26.8 40.2

123 11.7 8.0 12.0

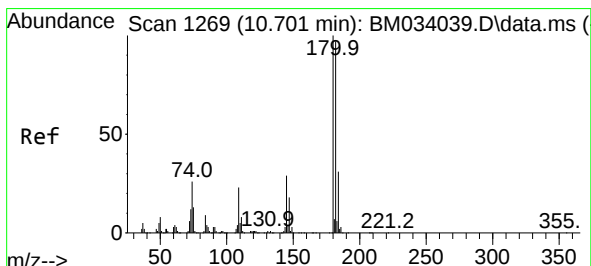
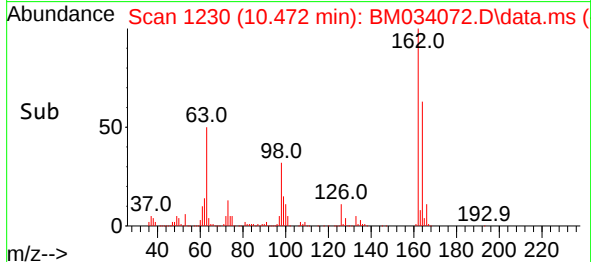
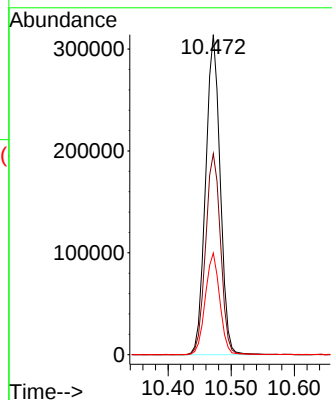
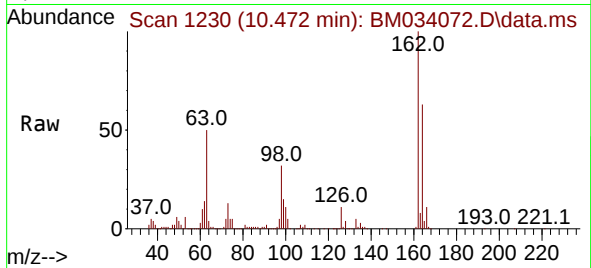




#29  
2,4-Dichlorophenol  
Concen: 52.864 ng  
RT: 10.472 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

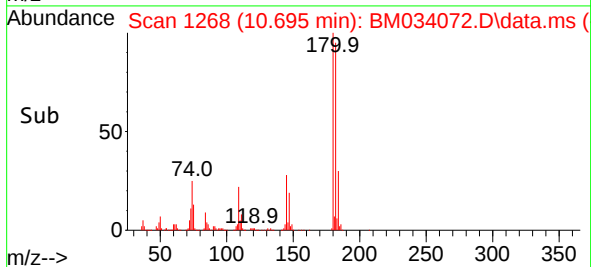
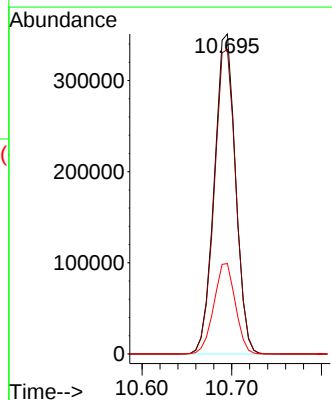
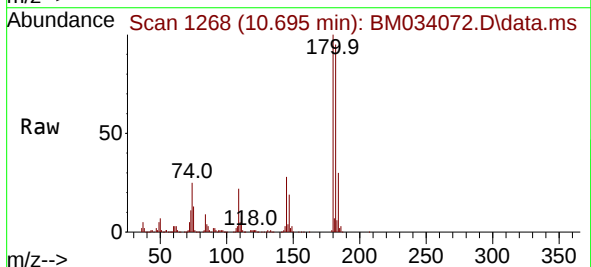
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

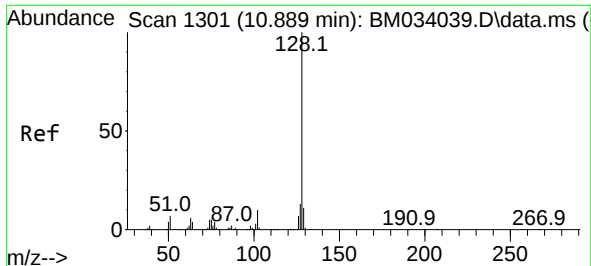
Tgt Ion:162 Resp: 502622  
Ion Ratio Lower Upper  
162 100  
164 62.8 44.4 84.4  
98 31.7 19.6 59.6



#30  
1,2,4-Trichlorobenzene  
Concen: 51.755 ng  
RT: 10.695 min Scan# 1268  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:180 Resp: 577681  
Ion Ratio Lower Upper  
180 100  
182 95.2 77.8 116.8  
145 28.3 26.0 39.0

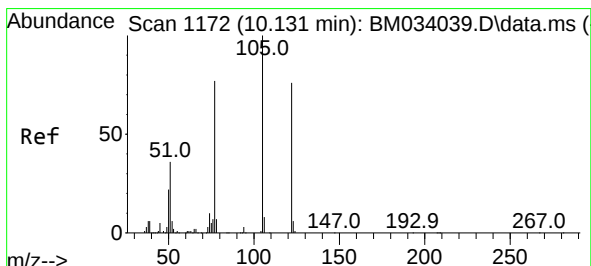
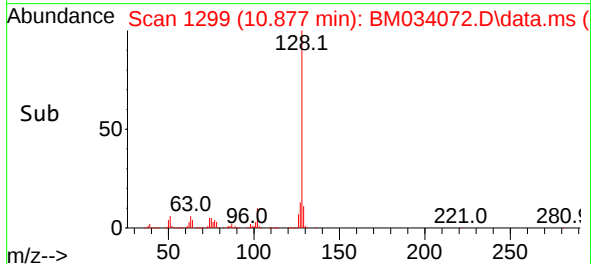
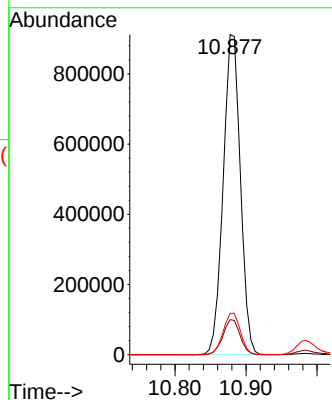
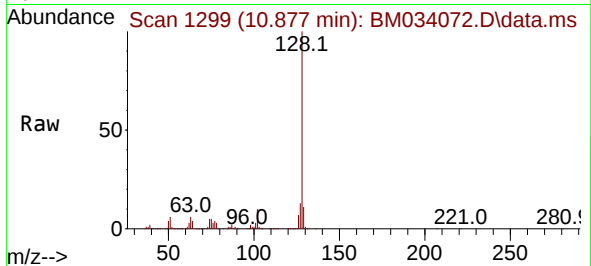




#31  
Naphthalene  
Concen: 50.871 ng  
RT: 10.877 min Scan# 1169  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

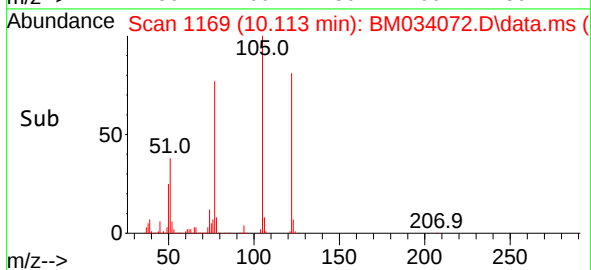
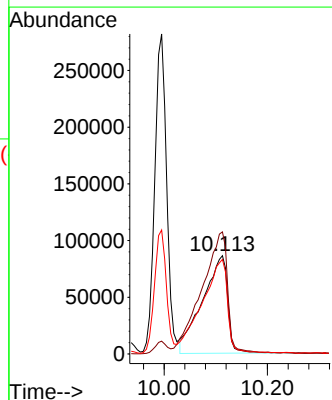
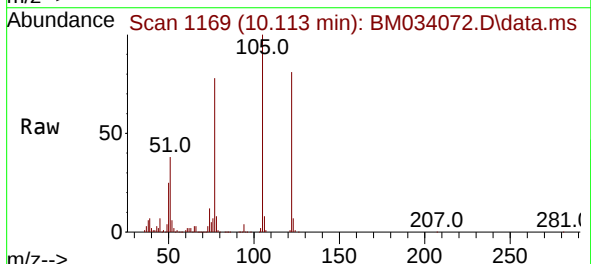
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BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

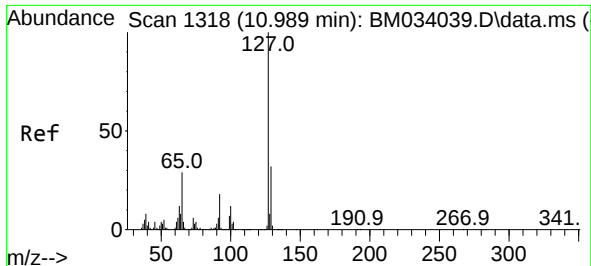
Tgt Ion:128 Resp: 1530446  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.5 12.7  
127 12.9 10.8 16.2



#32  
Benzoic acid  
Concen: 50.059 ng  
RT: 10.113 min Scan# 1169  
Delta R.T. -0.018 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:122 Resp: 291533  
Ion Ratio Lower Upper  
122 100  
105 124.1 119.6 159.6  
77 96.2 101.0 141.0#

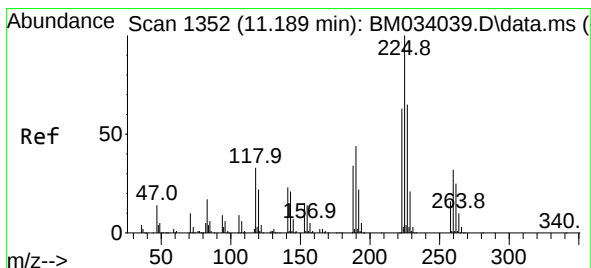
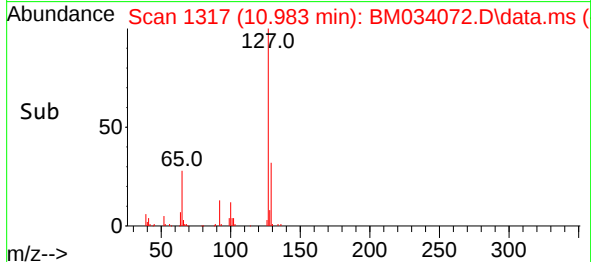
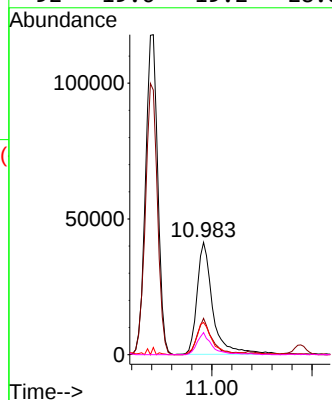
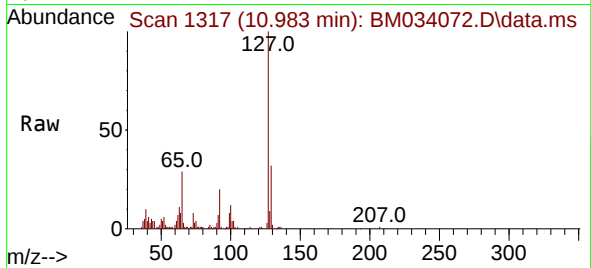




#33  
4-Chloroaniline  
Concen: 7.268 ng  
RT: 10.983 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

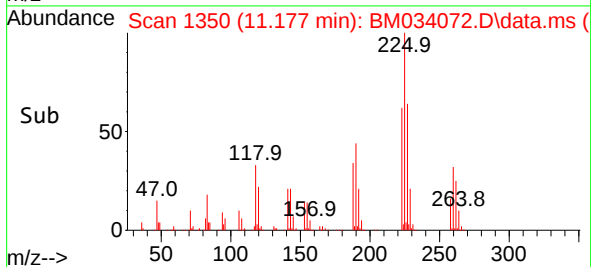
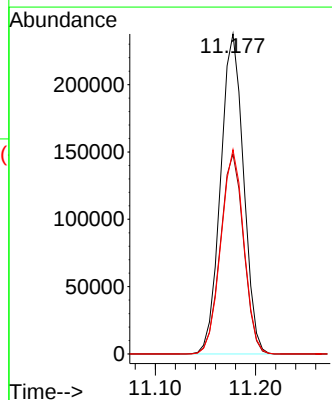
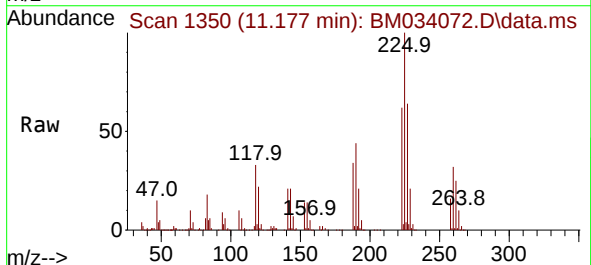
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BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

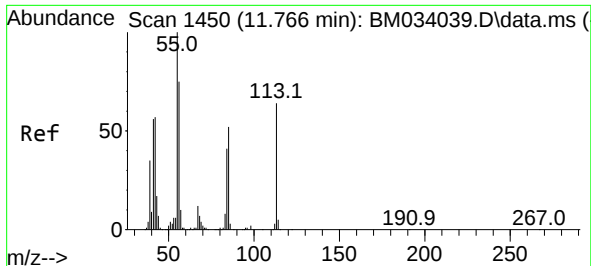
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:127 | Resp: | 89534      |
| Ion Ratio   | Lower | Upper      |
| 127         | 100   |            |
| 129         | 32.3  | 26.2 39.4  |
| 65          | 28.6  | 33.0 49.6# |
| 92          | 19.6  | 19.2 28.8  |



#34  
Hexachlorobutadiene  
Concen: 53.122 ng  
RT: 11.177 min Scan# 1350  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 376740    |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 62.4  | 52.5 78.7 |
| 227         | 63.8  | 52.7 79.1 |

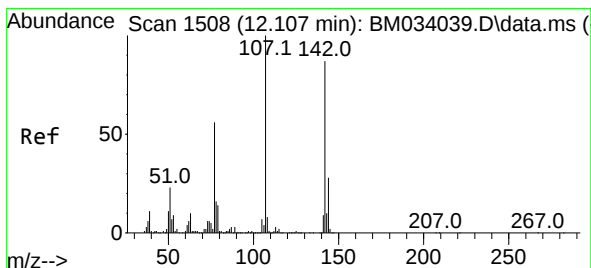
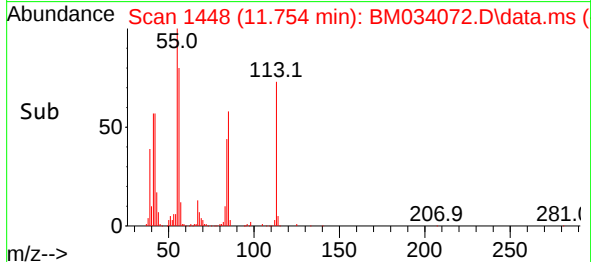
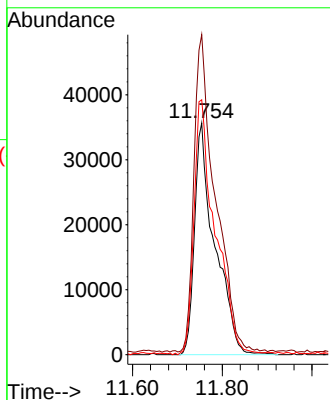
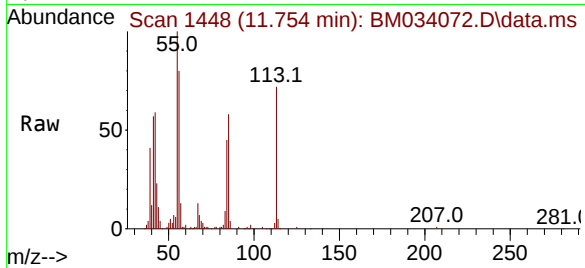




#35  
Caprolactam  
Concen: 58.381 ng  
RT: 11.754 min Scan# 1450  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

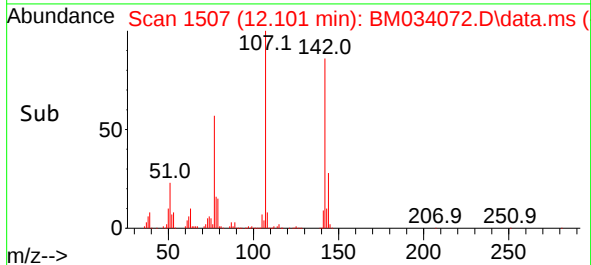
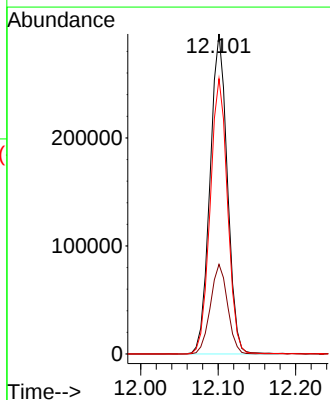
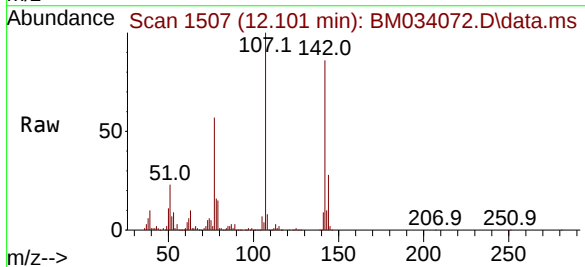
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

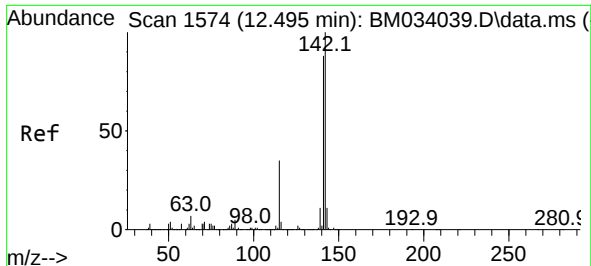
Tgt Ion:113 Resp: 111894  
Ion Ratio Lower Upper  
113 100  
55 138.1 183.6 223.6#  
56 110.0 143.7 183.7#



#36  
4-Chloro-3-methylphenol  
Concen: 49.183 ng  
RT: 12.101 min Scan# 1507  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:107 Resp: 460450  
Ion Ratio Lower Upper  
107 100  
144 28.0 18.6 27.8#  
142 86.1 56.9 85.3#

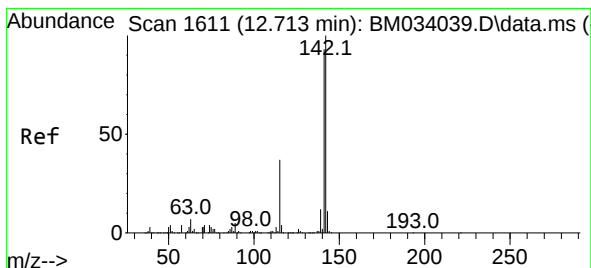
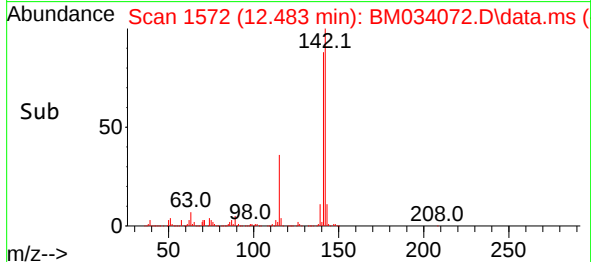
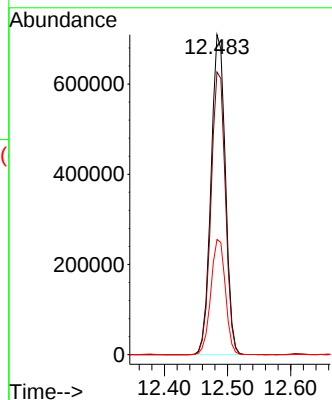
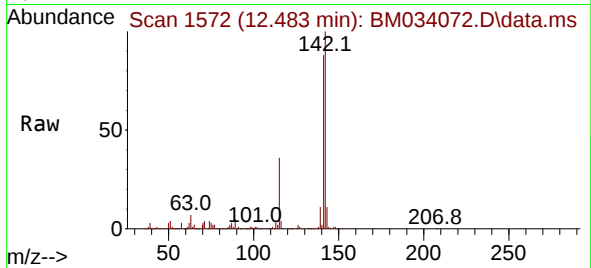




#37  
2-Methylnaphthalene  
Concen: 50.972 ng  
RT: 12.483 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

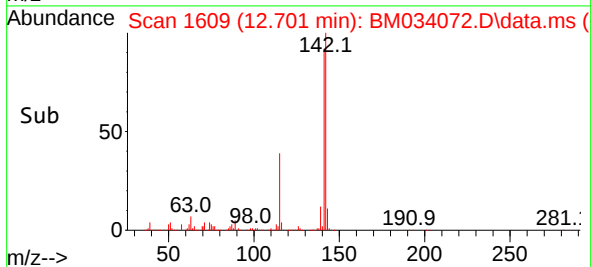
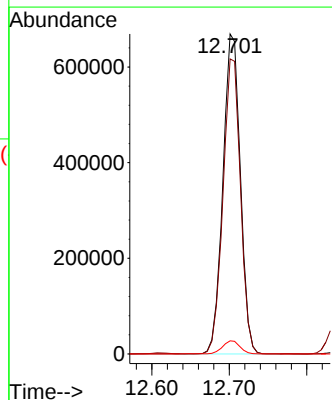
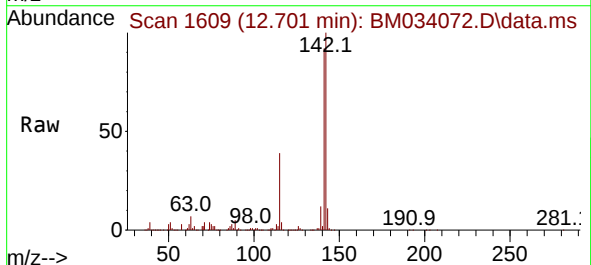
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

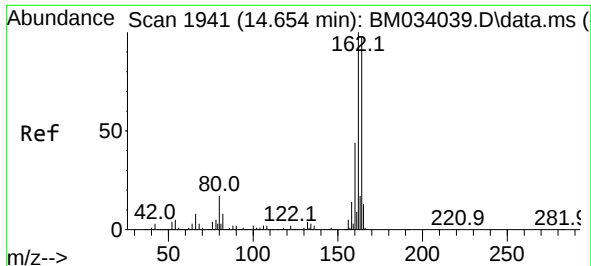
Tgt Ion:142 Resp: 1118799  
Ion Ratio Lower Upper  
142 100  
141 88.4 72.2 108.2  
115 36.0 33.0 49.6



#38  
1-Methylnaphthalene  
Concen: 48.903 ng  
RT: 12.701 min Scan# 1609  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:142 Resp: 1046571  
Ion Ratio Lower Upper  
142 100  
141 92.2 75.0 112.4  
116 4.1 3.5 5.3

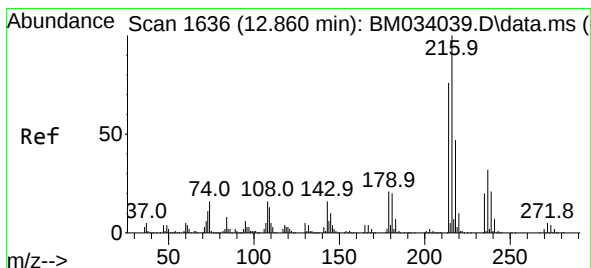
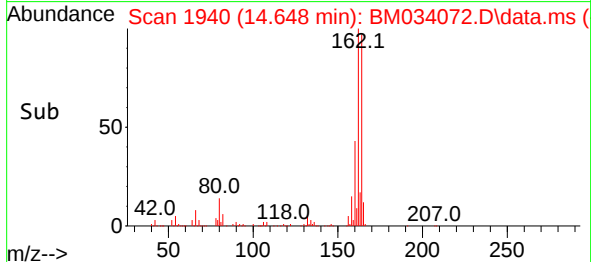
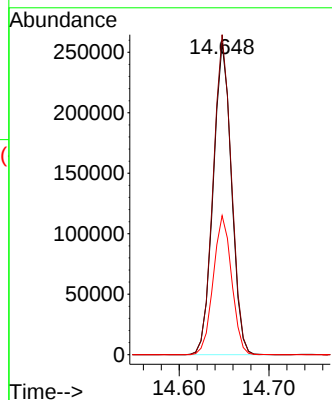
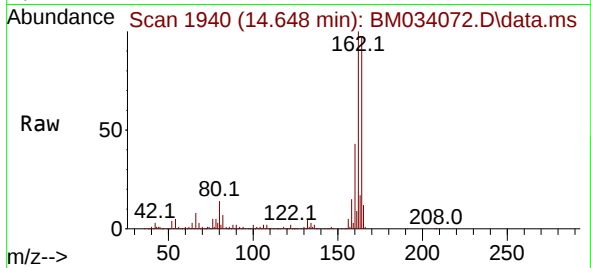




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.648 min Scan# 1941  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

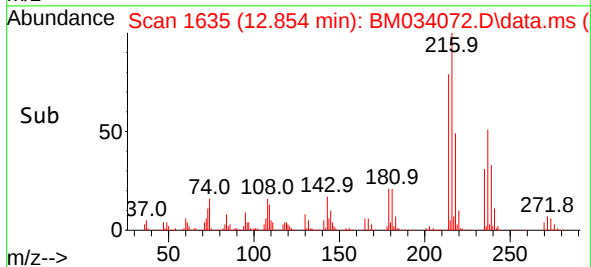
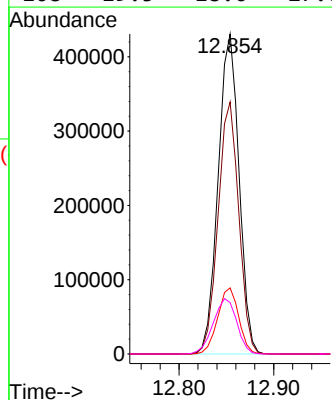
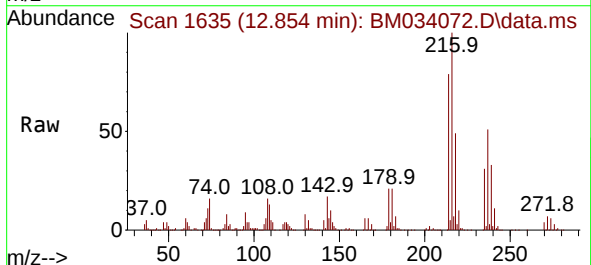
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BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

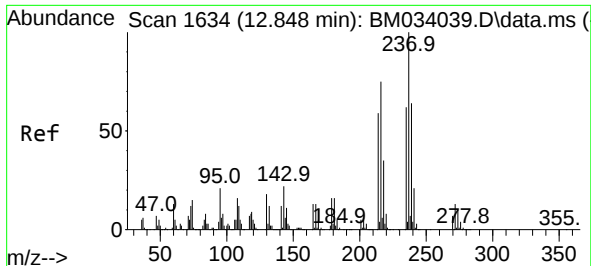
Tgt Ion:164 Resp: 363613  
Ion Ratio Lower Upper  
164 100  
162 102.7 79.7 119.5  
160 44.6 34.2 51.4



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 56.735 ng  
RT: 12.854 min Scan# 1635  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:216 Resp: 659541  
Ion Ratio Lower Upper  
216 100  
214 78.1 62.6 93.8  
179 20.8 18.2 27.2  
108 19.5 18.0 27.0

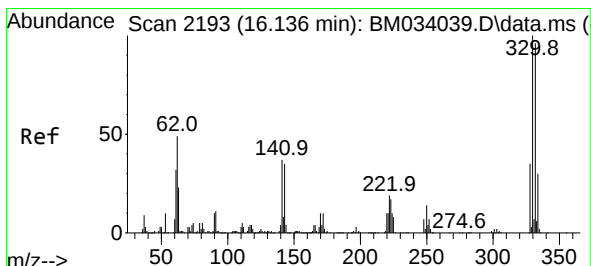
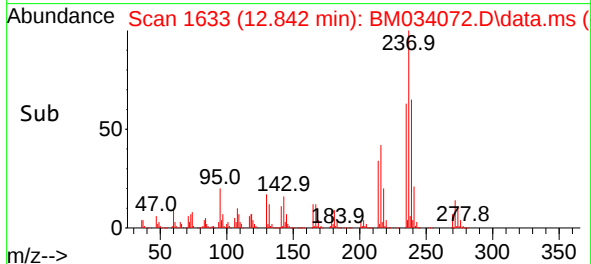
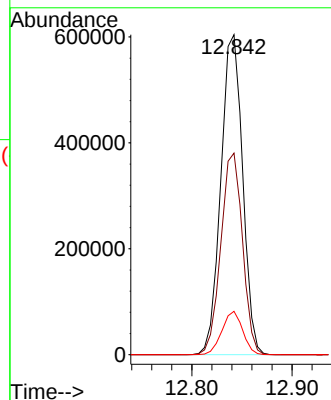
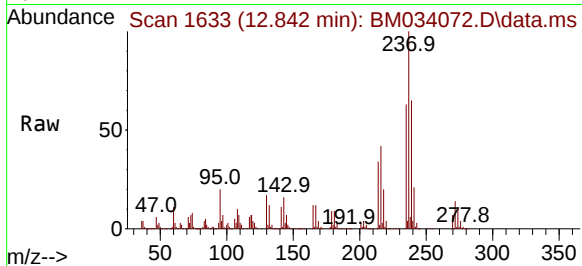




#41  
Hexachlorocyclopentadiene  
Concen: 133.824 ng  
RT: 12.842 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

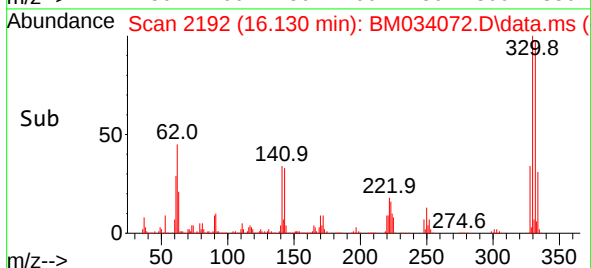
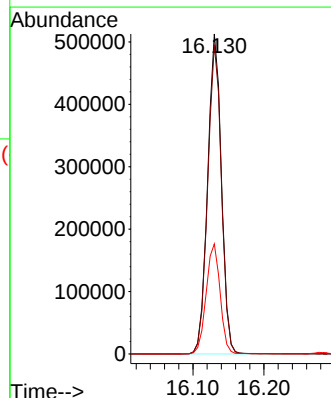
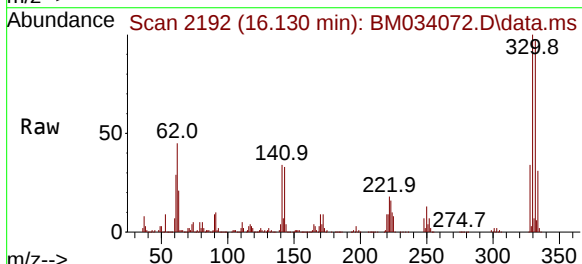
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

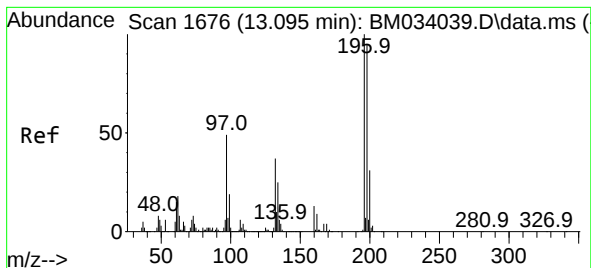
Tgt Ion:237 Resp: 908776  
Ion Ratio Lower Upper  
237 100  
235 63.0 41.7 81.7  
272 13.5 0.0 32.5



#42  
2,4,6-Tribromophenol  
Concen: 156.967 ng  
RT: 16.130 min Scan# 2192  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:330 Resp: 692709  
Ion Ratio Lower Upper  
330 100  
332 96.4 76.5 114.7  
141 34.9 35.9 53.9#





#43

2,4,6-Trichlorophenol

Concen: 57.181 ng

RT: 13.083 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

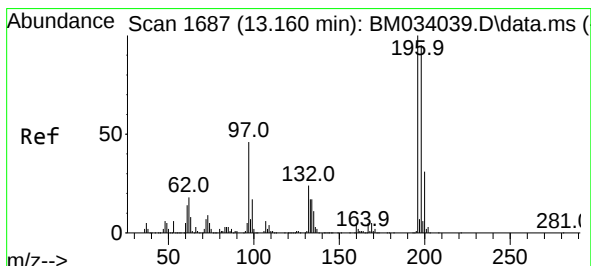
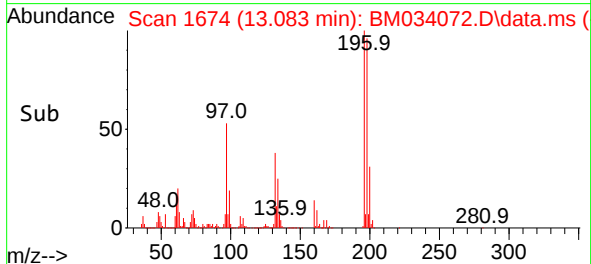
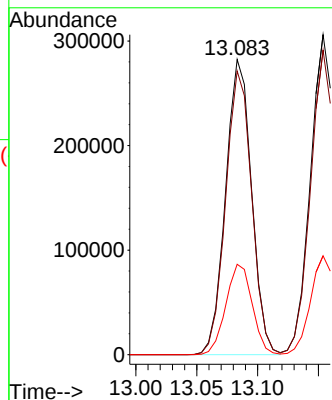
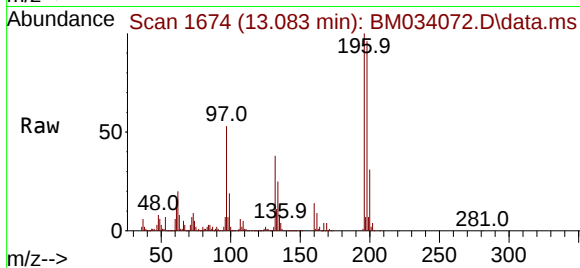
Tgt Ion:196 Resp: 420352

Ion Ratio Lower Upper

196 100

198 96.1 75.1 112.7

200 30.6 24.0 36.0



#44

2,4,5-Trichlorophenol

Concen: 60.296 ng

RT: 13.154 min Scan# 1686

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Tgt Ion:196 Resp: 450289

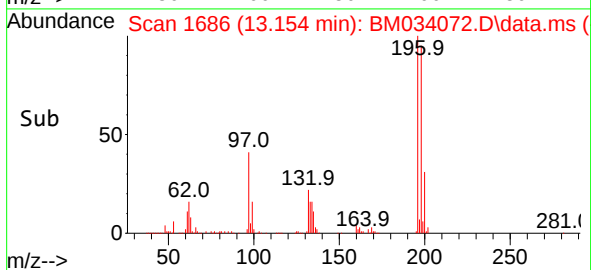
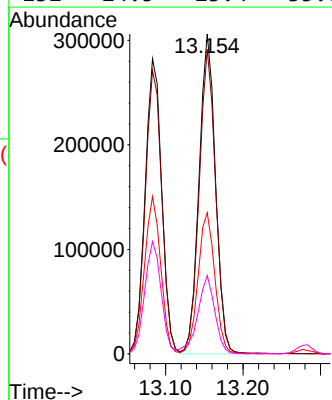
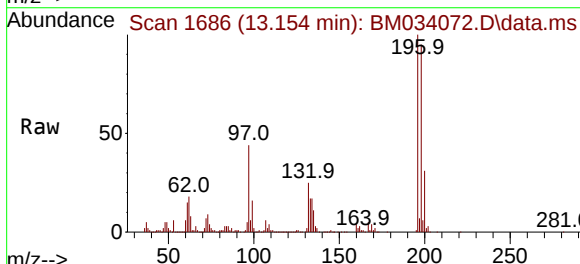
Ion Ratio Lower Upper

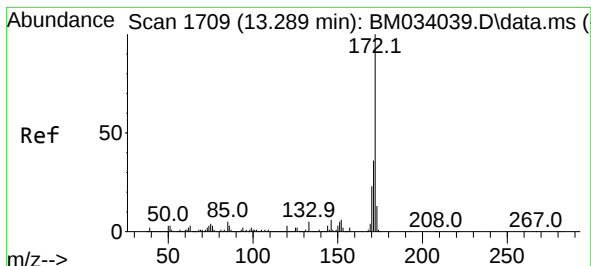
196 100

198 95.1 77.8 116.6

97 44.1 49.7 74.5

132 24.5 23.4 35.0





#45

2-Fluorobiphenyl

Concen: 94.800 ng

RT: 13.277 min Scan# 1707

Delta R.T. -0.012 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

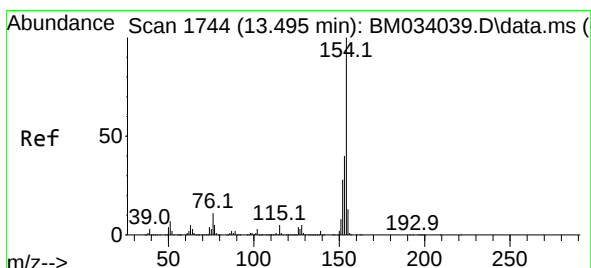
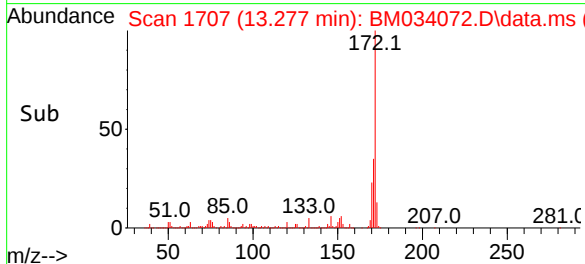
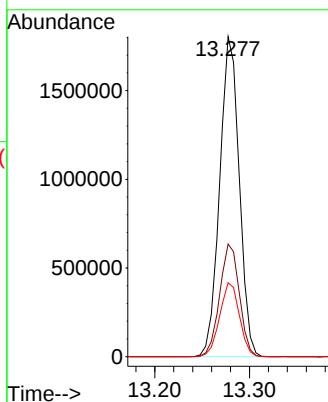
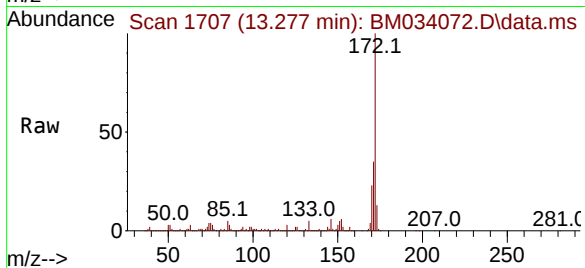
Tgt Ion:172 Resp: 2587307

Ion Ratio Lower Upper

172 100

171 35.2 27.2 40.8

170 23.1 18.7 28.1



#46

1,1'-Biphenyl

Concen: 52.973 ng

RT: 13.489 min Scan# 1743

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

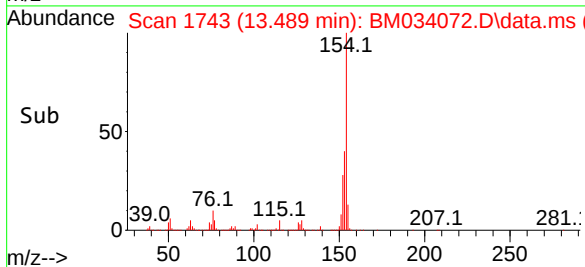
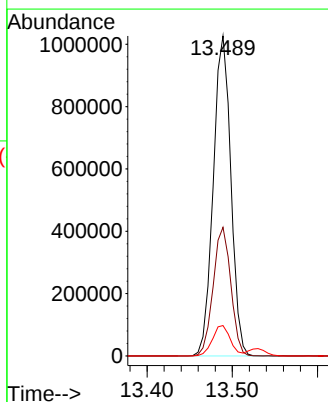
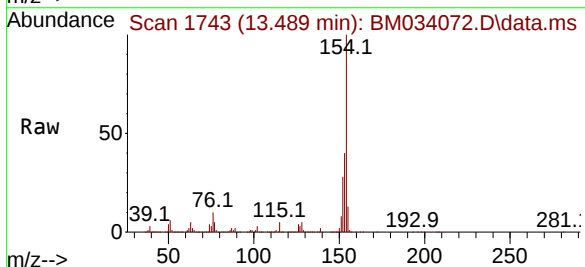
Tgt Ion:154 Resp: 1471664

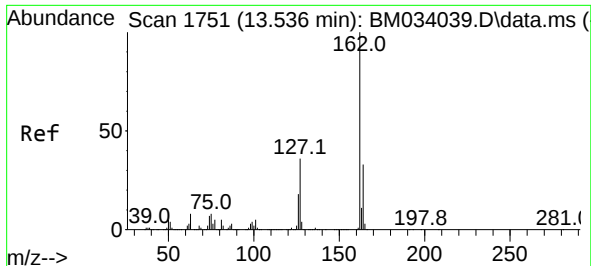
Ion Ratio Lower Upper

154 100

153 40.2 20.7 60.7

76 9.5 0.0 34.4

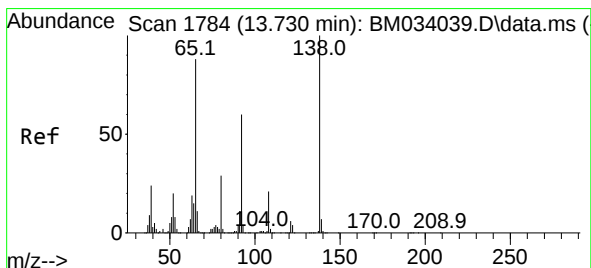
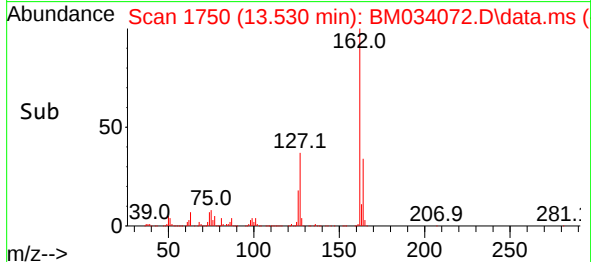
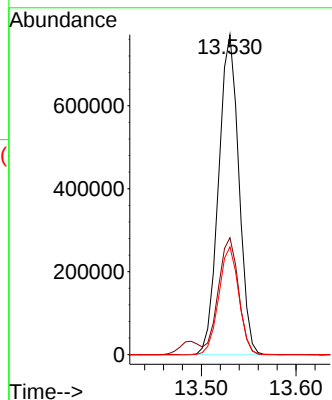
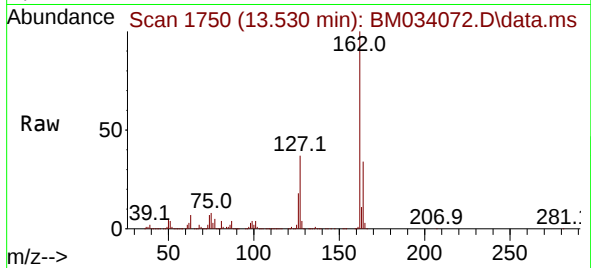




#47  
2-Chloronaphthalene  
Concen: 52.837 ng  
RT: 13.530 min Scan# 1751  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

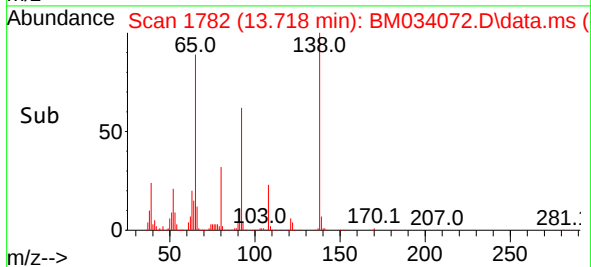
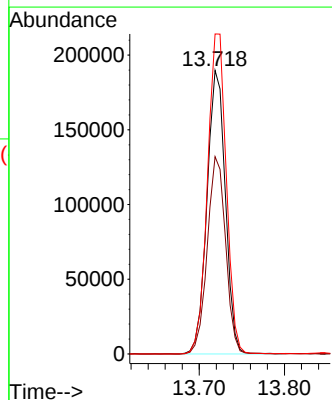
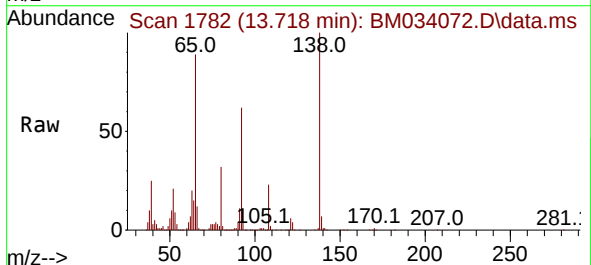
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

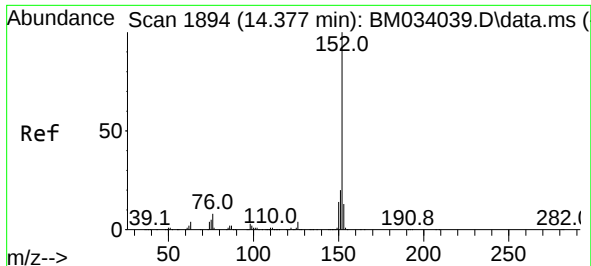
Tgt Ion:162 Resp: 1146193  
Ion Ratio Lower Upper  
162 100  
127 36.5 33.8 50.6  
164 33.7 26.2 39.4



#48  
2-Nitroaniline  
Concen: 55.196 ng  
RT: 13.718 min Scan# 1782  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion: 65 Resp: 284358  
Ion Ratio Lower Upper  
65 100  
92 69.6 50.0 75.0  
138 112.9 65.7 98.5#

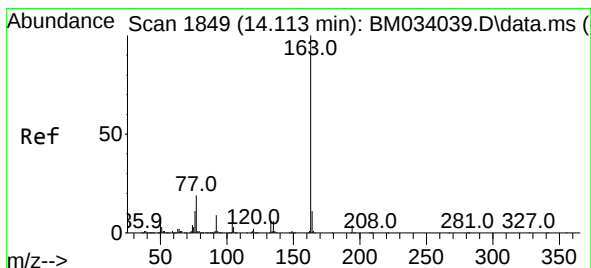
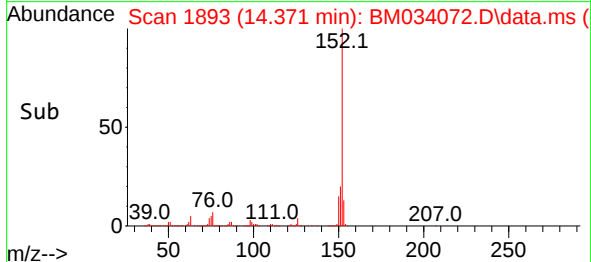
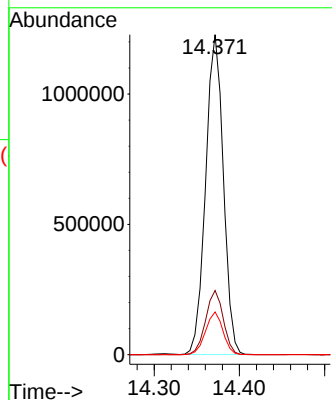
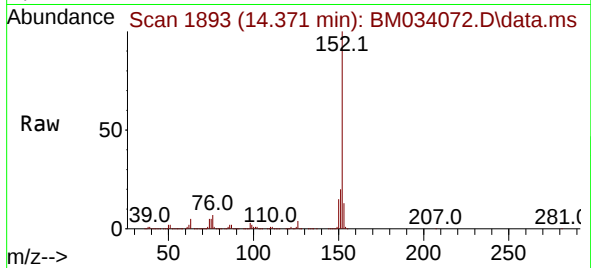




#49  
Acenaphthylene  
Concen: 54.542 ng  
RT: 14.371 min Scan# 1893  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

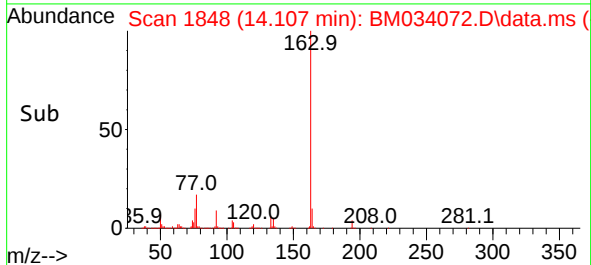
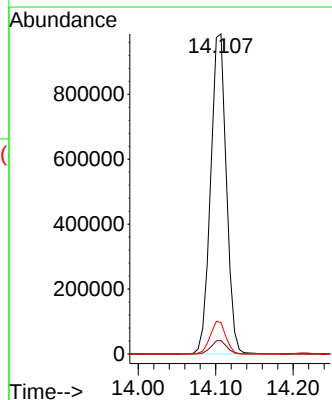
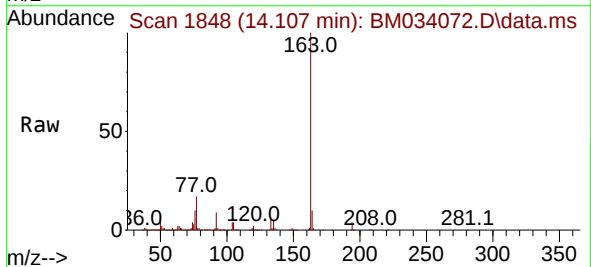
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

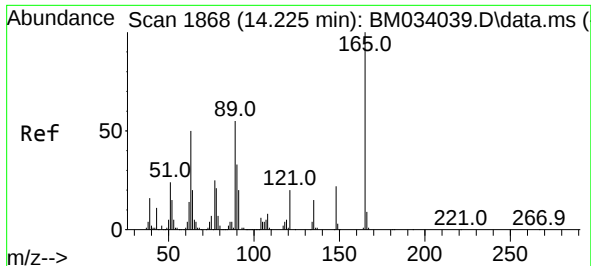
Tgt Ion:152 Resp: 1773190  
Ion Ratio Lower Upper  
152 100  
151 20.1 15.4 23.2  
153 13.4 10.4 15.6



#50  
Dimethylphthalate  
Concen: 51.487 ng  
RT: 14.107 min Scan# 1848  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:163 Resp: 1387965  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.2 4.8  
164 9.9 8.6 12.8

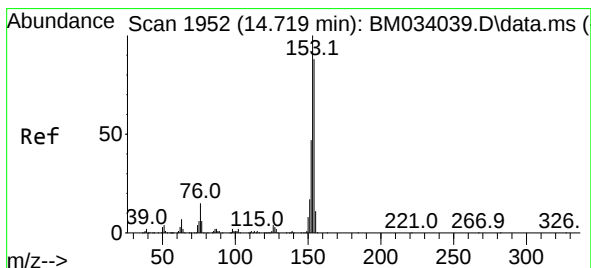
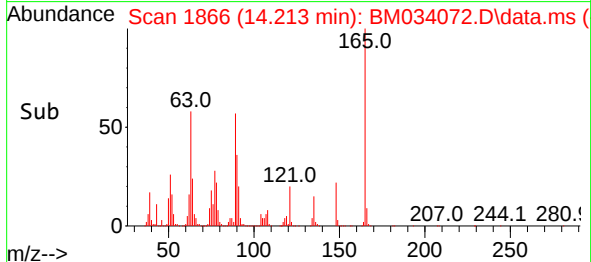
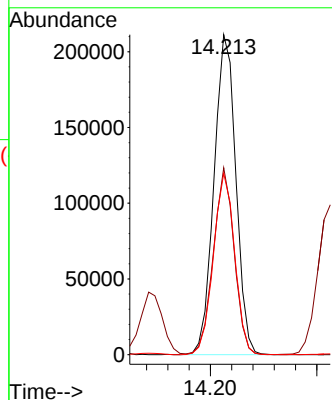
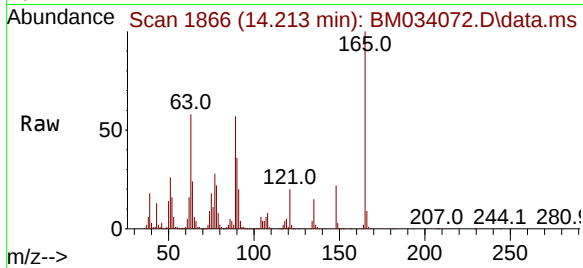




#51  
2,6-Dinitrotoluene  
Concen: 56.312 ng  
RT: 14.213 min Scan# 1866  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

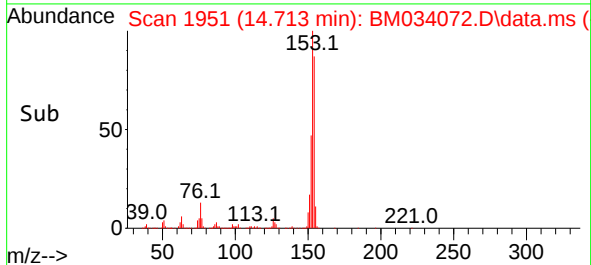
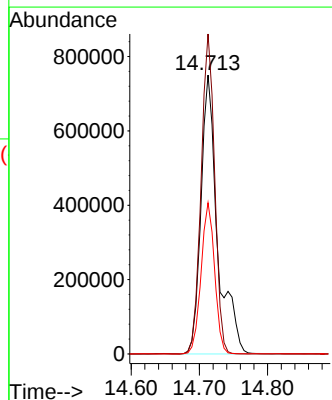
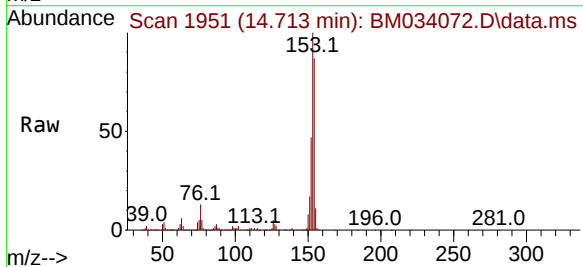
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

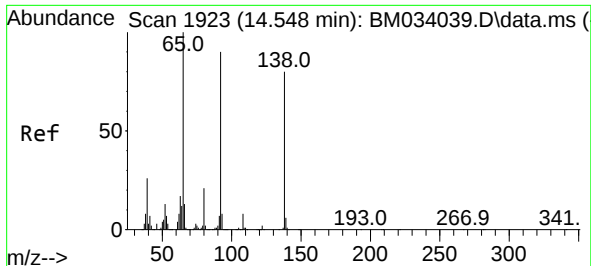
Tgt Ion:165 Resp: 300384  
Ion Ratio Lower Upper  
165 100  
63 58.4 56.9 85.3  
89 56.6 54.3 81.5



#52  
Acenaphthene  
Concen: 59.127 ng  
RT: 14.713 min Scan# 1951  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:154 Resp: 1270163  
Ion Ratio Lower Upper  
154 100  
153 114.8 90.2 135.4  
152 54.2 43.5 65.3

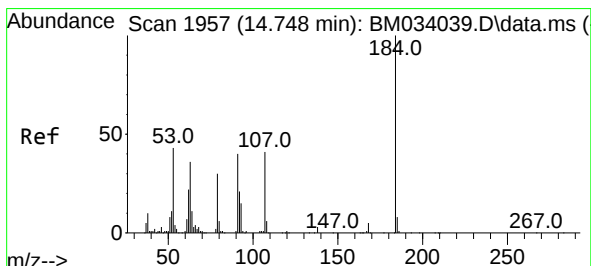
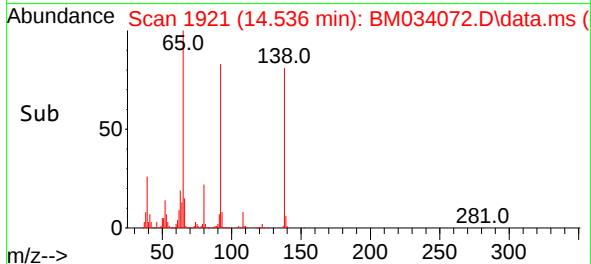
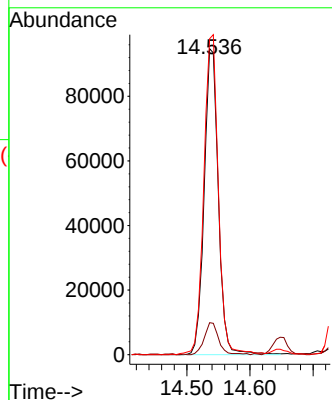
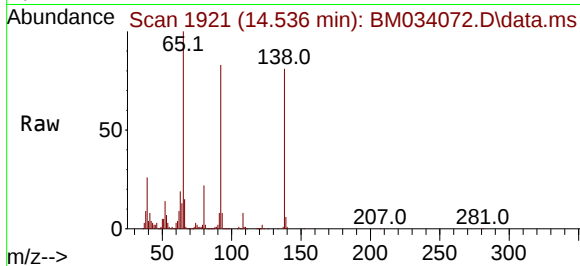




#53  
3-Nitroaniline  
Concen: 27.752 ng  
RT: 14.536 min Scan# 1921  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

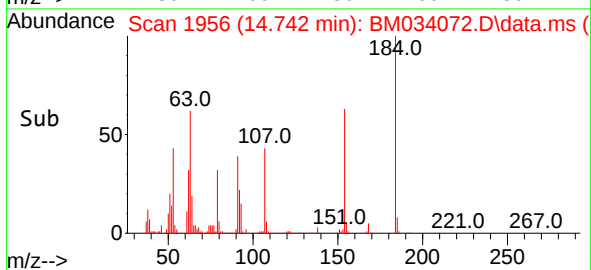
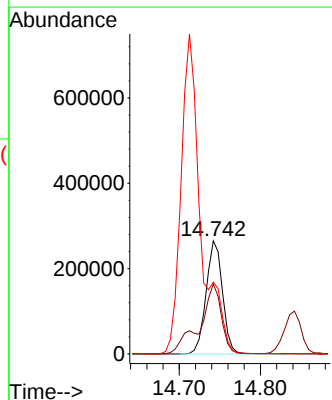
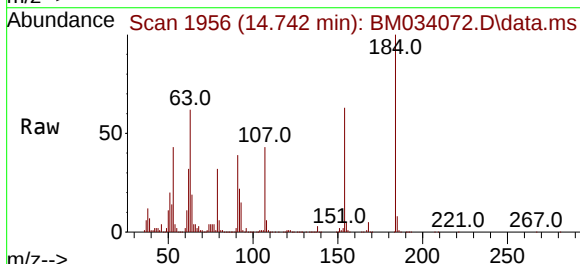
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

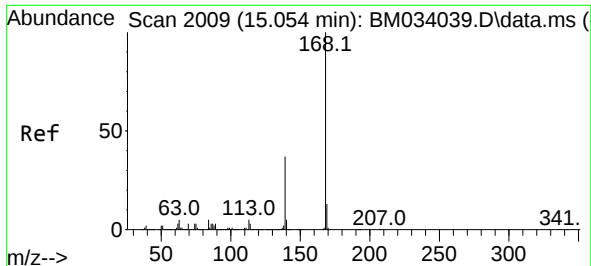
Tgt Ion:138 Resp: 148071  
Ion Ratio Lower Upper  
138 100  
108 10.5 9.5 14.3  
92 103.3 106.6 159.8#



#54  
2,4-Dinitrophenol  
Concen: 122.702 ng  
RT: 14.742 min Scan# 1956  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:184 Resp: 371510  
Ion Ratio Lower Upper  
184 100  
63 61.8 71.8 107.6#  
154 63.4 55.7 83.5

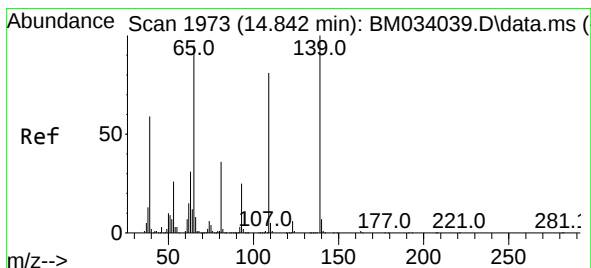
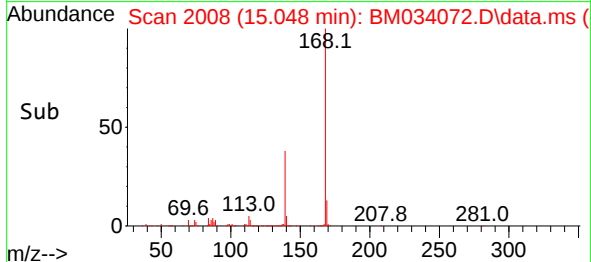
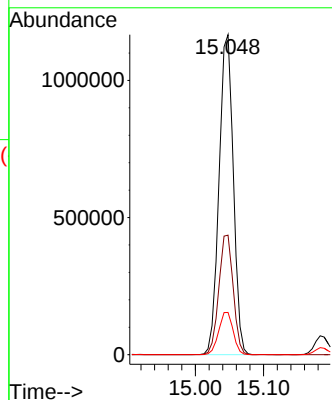
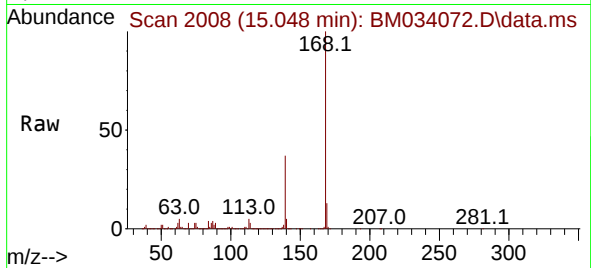




#55  
Dibenzenofuran  
Concen: 50.581 ng  
RT: 15.048 min Scan# 2009  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

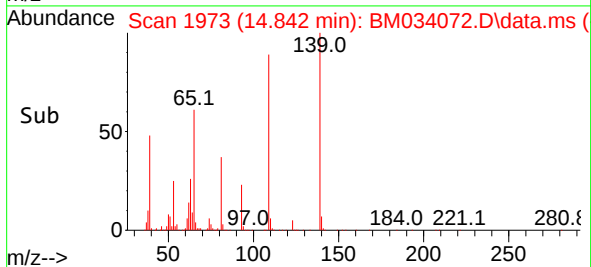
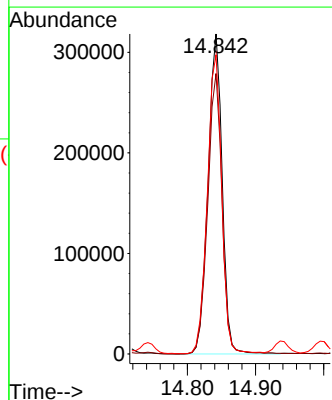
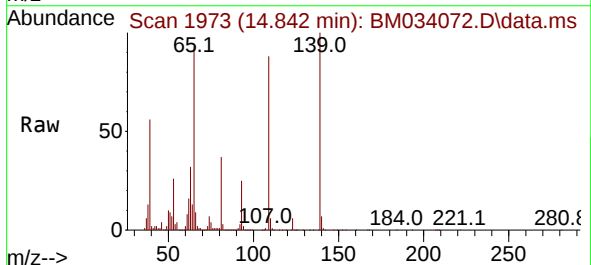
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

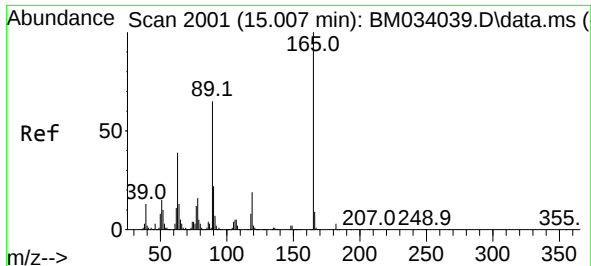
Tgt Ion:168 Resp: 1697263  
Ion Ratio Lower Upper  
168 100  
139 37.4 31.4 47.2  
169 13.2 10.6 15.8



#56  
4-Nitrophenol  
Concen: 107.229 ng  
RT: 14.842 min Scan# 1973  
Delta R.T. -0.000 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:139 Resp: 462436  
Ion Ratio Lower Upper  
139 100  
109 87.6 75.3 115.3  
65 93.5 107.4 147.4#





#57

2,4-Dinitrotoluene

Concen: 59.366 ng

RT: 14.995 min Scan# 1999

Delta R.T. -0.012 min

Lab File: BM034072.D

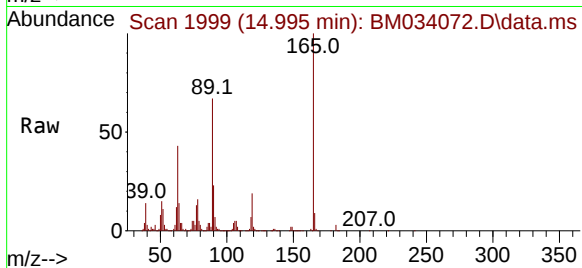
Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS



Tgt Ion:165 Resp: 411805

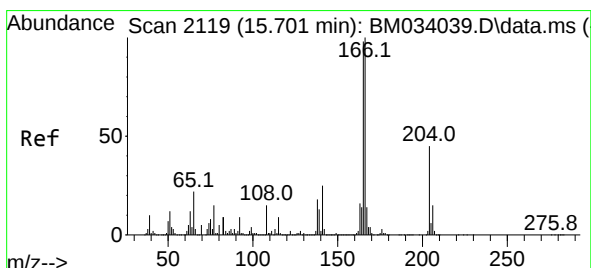
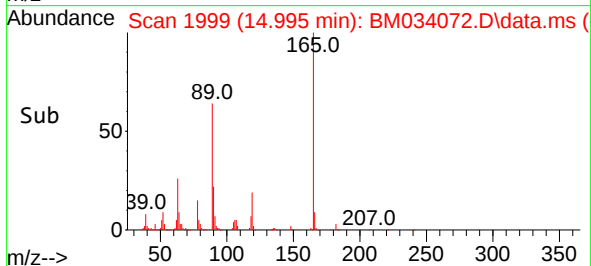
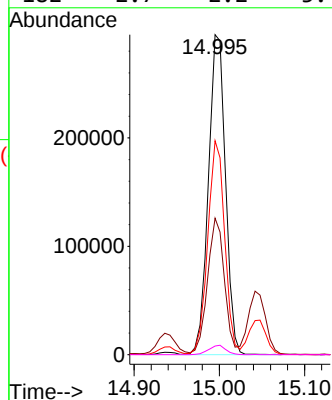
Ion Ratio Lower Upper

165 100

63 42.6 46.2 69.4#

89 66.8 72.0 108.0#

182 2.7 2.2 3.4



#58

Fluorene

Concen: 52.240 ng

RT: 15.695 min Scan# 2118

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

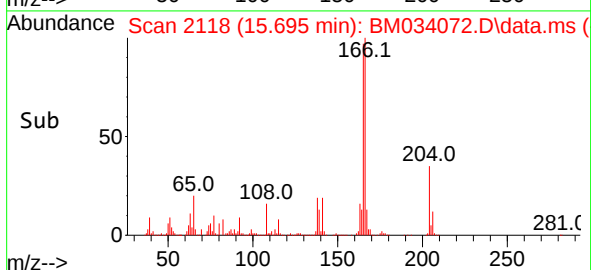
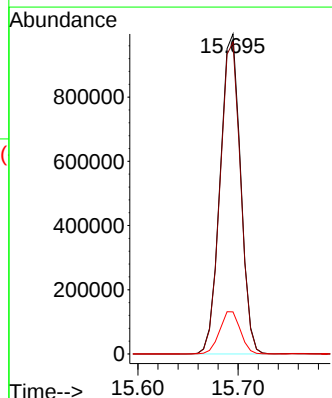
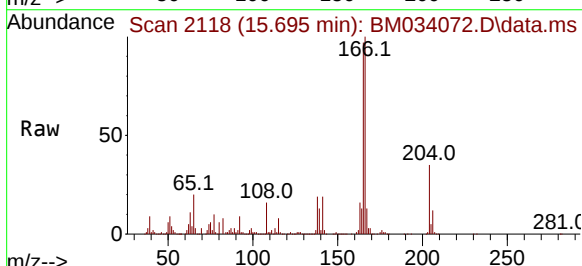
Tgt Ion:166 Resp: 1409141

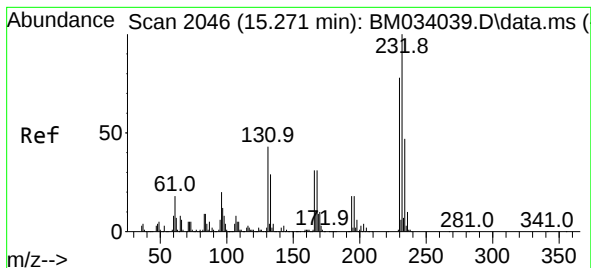
Ion Ratio Lower Upper

166 100

165 97.4 78.1 117.1

167 13.2 10.6 15.8

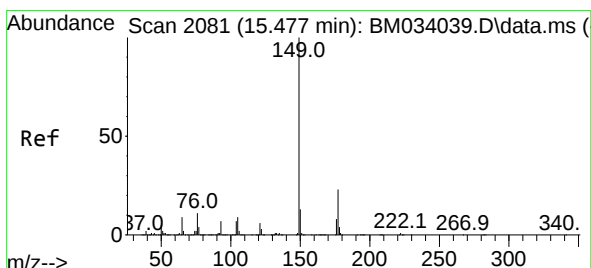
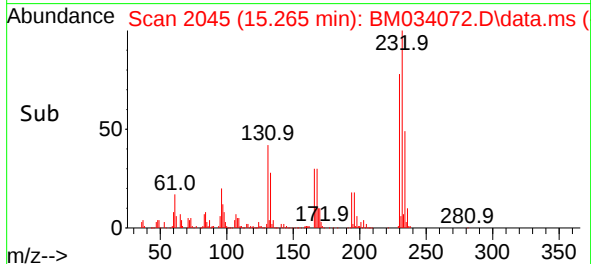
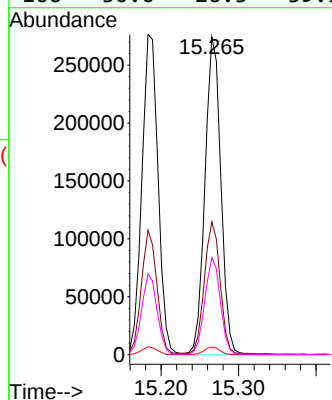
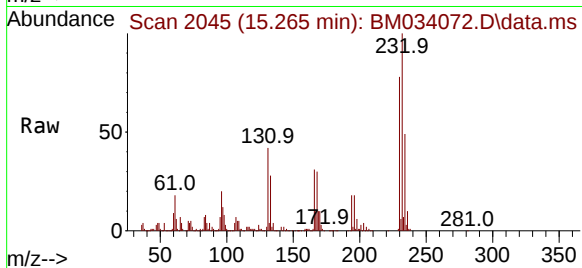




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 53.316 ng  
RT: 15.265 min Scan# 2045  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

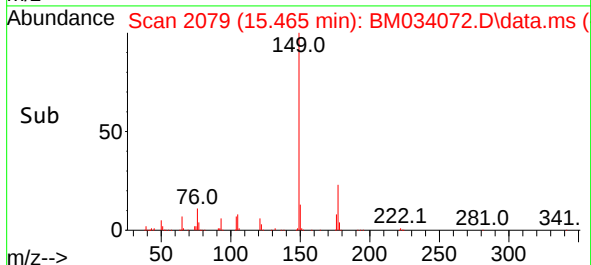
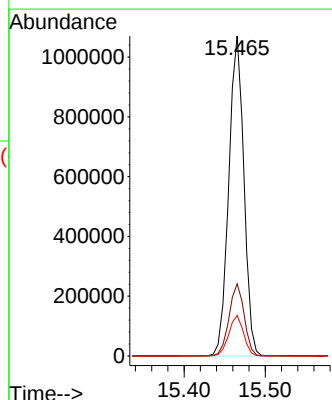
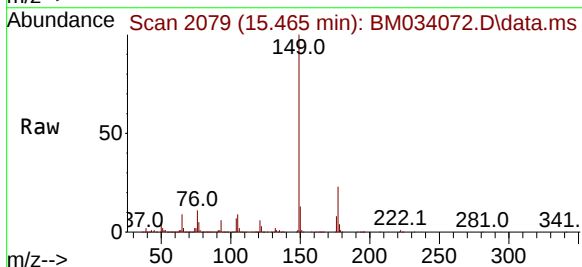
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

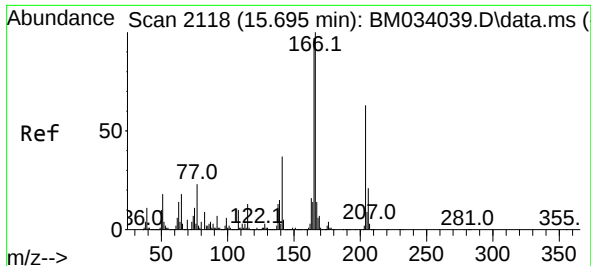
Tgt Ion:232 Resp: 390010  
Ion Ratio Lower Upper  
232 100  
131 41.6 41.4 62.0  
130 2.3 2.4 3.6#  
166 30.0 26.3 39.5



#60  
Diethylphthalate  
Concen: 51.393 ng  
RT: 15.465 min Scan# 2079  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:149 Resp: 1385369  
Ion Ratio Lower Upper  
149 100  
177 22.5 17.5 26.3  
150 12.7 10.3 15.5

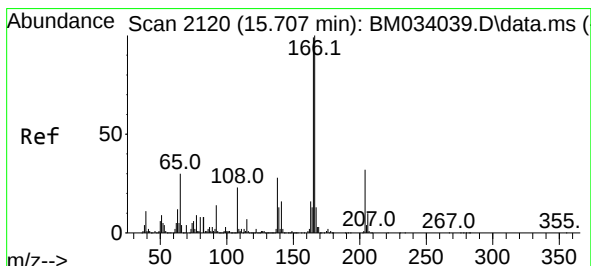
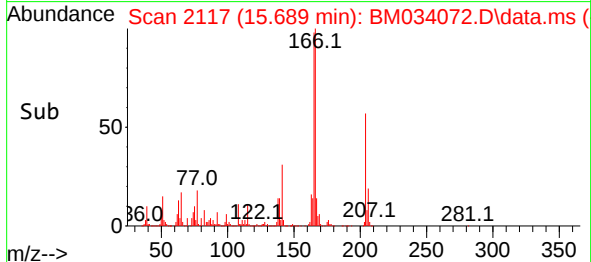
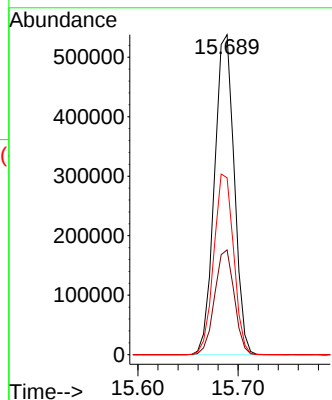
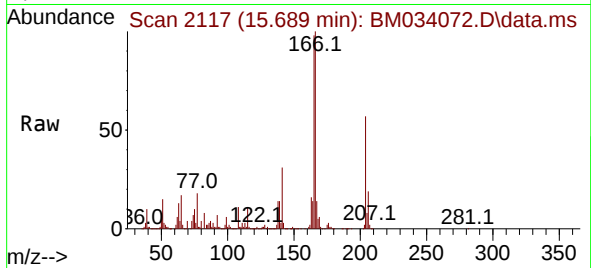




#61  
4-Chlorophenyl-phenylether  
Concen: 51.063 ng  
RT: 15.689 min Scan# 2117  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

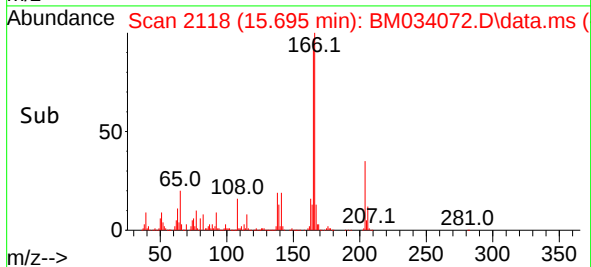
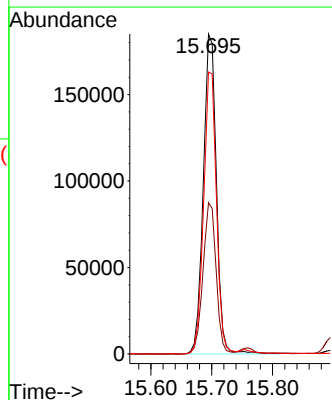
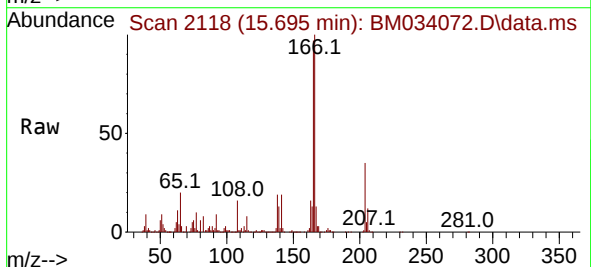
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

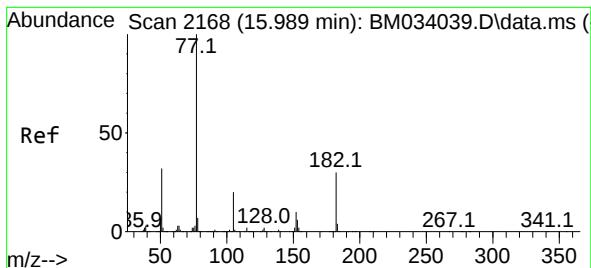
Tgt Ion:204 Resp: 737605  
Ion Ratio Lower Upper  
204 100  
206 32.8 25.4 38.2  
141 55.3 50.6 76.0



#62  
4-Nitroaniline  
Concen: 49.871 ng  
RT: 15.695 min Scan# 2118  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:138 Resp: 276142  
Ion Ratio Lower Upper  
138 100  
92 47.3 38.7 78.7  
108 88.1 81.9 121.9





#63

Azobenzene

Concen: 47.958 ng

RT: 15.977 min Scan# 2166

Delta R.T. -0.012 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

Tgt Ion: 77 Resp: 1123006

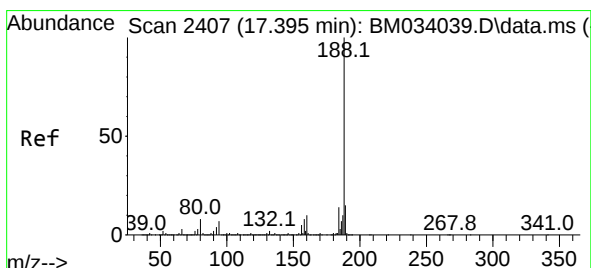
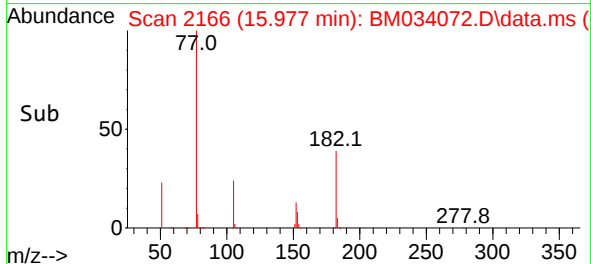
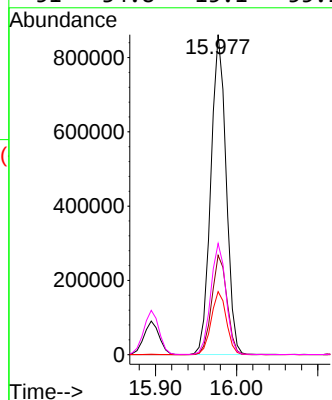
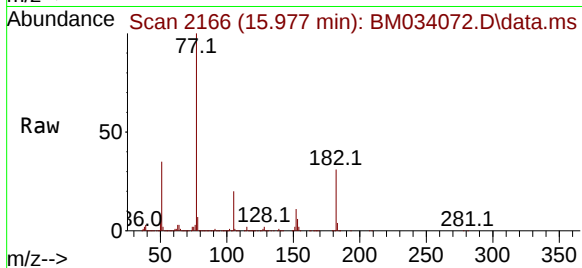
Ion Ratio Lower Upper

77 100

182 31.0 0.3 40.3

105 19.7 0.0 38.3

51 34.8 15.1 55.1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.389 min Scan# 2406

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

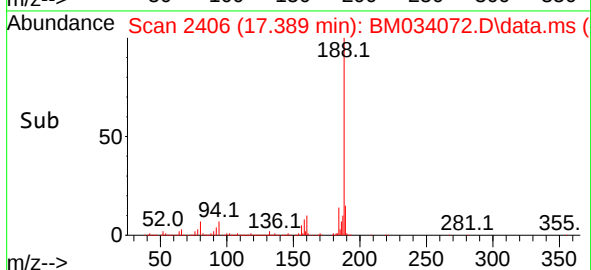
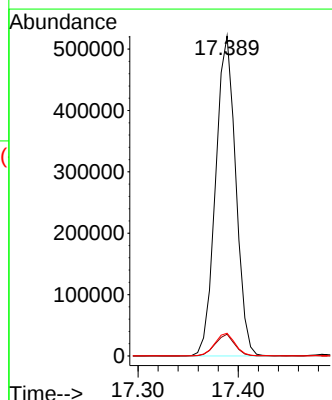
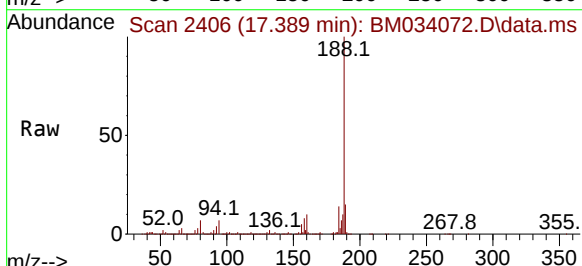
Tgt Ion:188 Resp: 726646

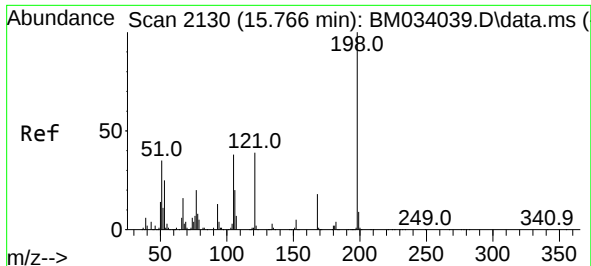
Ion Ratio Lower Upper

188 100

94 6.8 7.5 11.3#

80 7.1 8.9 13.3#

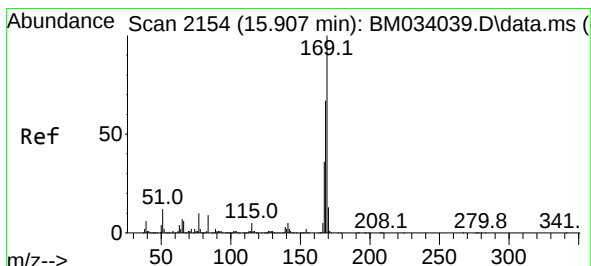
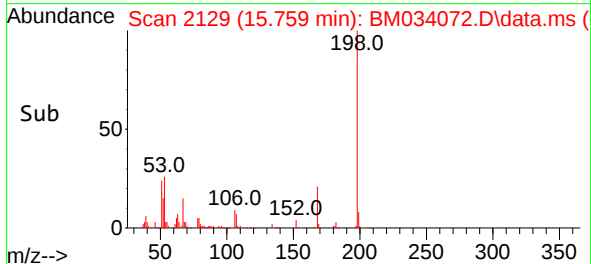
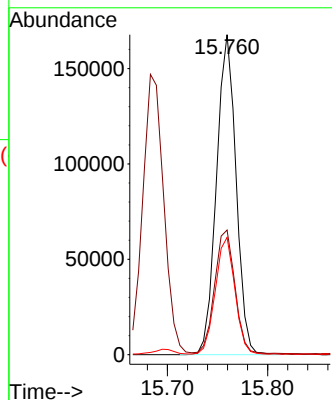
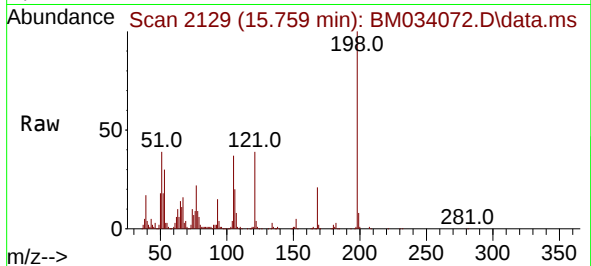




#65  
4,6-Dinitro-2-methylphenol  
Concen: 53.345 ng  
RT: 15.759 min Scan# 2129  
Delta R.T. -0.007 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

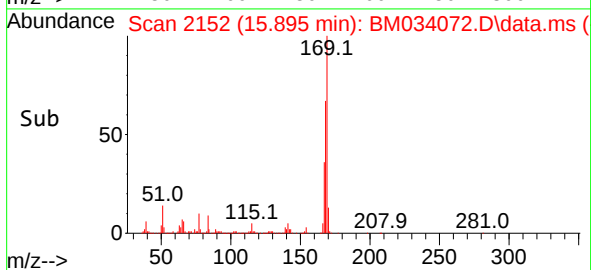
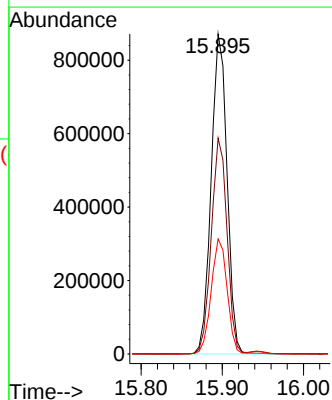
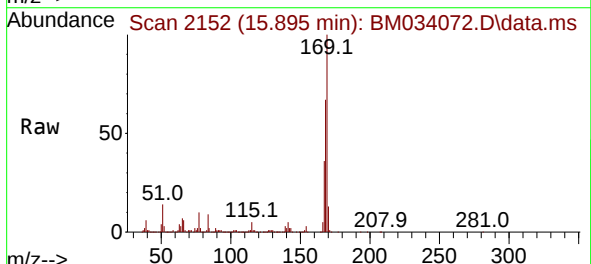
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

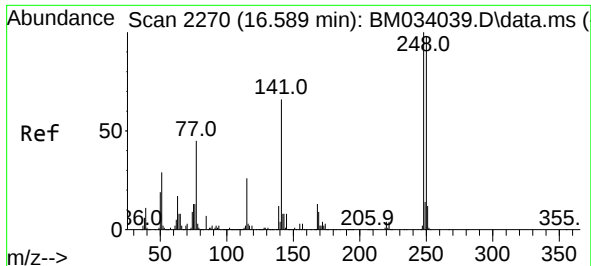
Tgt Ion:198 Resp: 227205  
Ion Ratio Lower Upper  
198 100  
51 39.0 47.9 87.9#  
105 36.6 32.6 72.6



#66  
n-Nitrosodiphenylamine  
Concen: 51.901 ng  
RT: 15.895 min Scan# 2152  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:169 Resp: 1180718  
Ion Ratio Lower Upper  
169 100  
168 67.5 52.5 78.7  
167 36.0 28.4 42.6

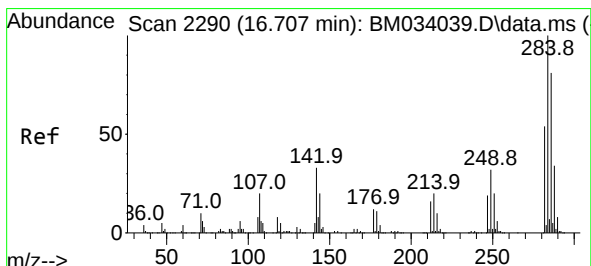
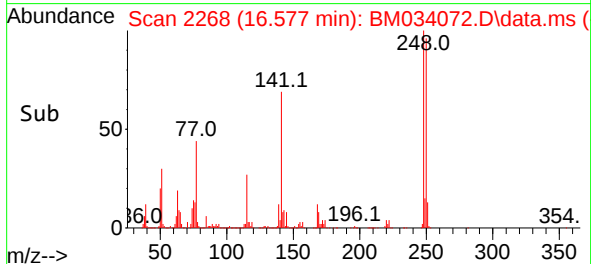
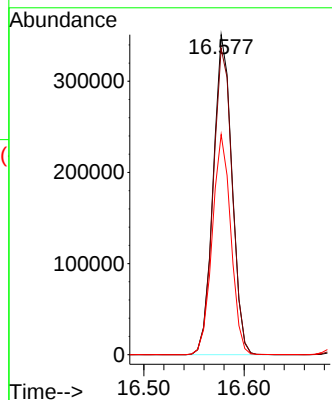
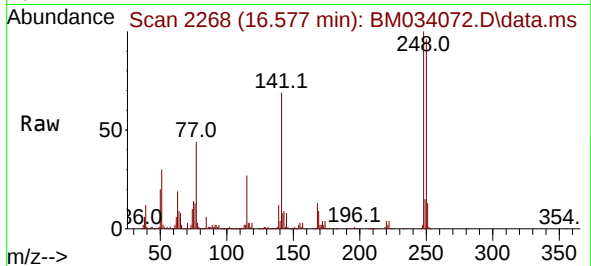




#67  
4-Bromophenyl-phenylether  
Concen: 55.462 ng  
RT: 16.577 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

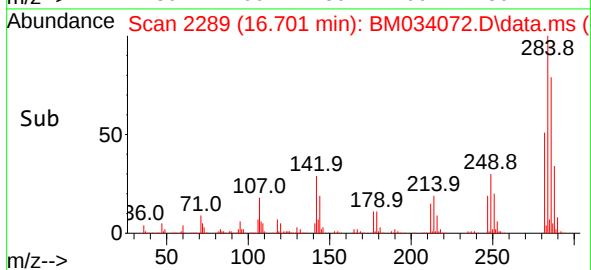
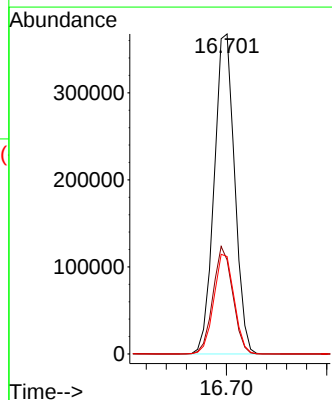
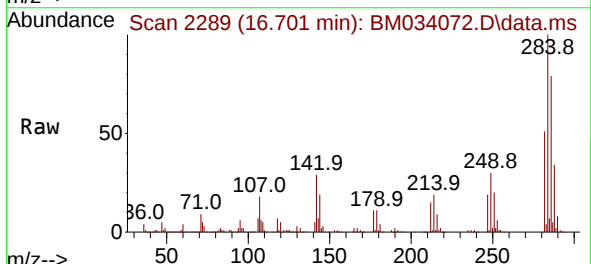
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

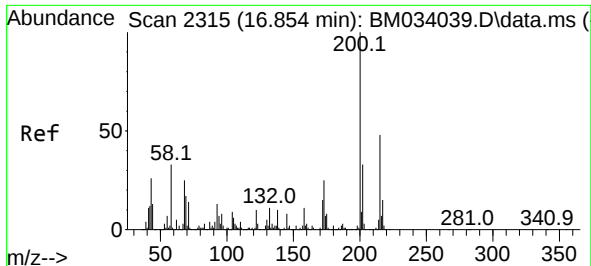
Tgt Ion:248 Resp: 455268  
Ion Ratio Lower Upper  
248 100  
250 95.7 78.2 117.2  
141 68.8 65.4 98.2



#68  
Hexachlorobenzene  
Concen: 55.063 ng  
RT: 16.701 min Scan# 2289  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:284 Resp: 520788  
Ion Ratio Lower Upper  
284 100  
142 29.4 33.1 49.7#  
249 30.4 27.3 40.9

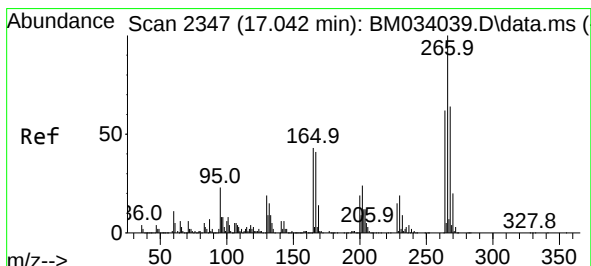
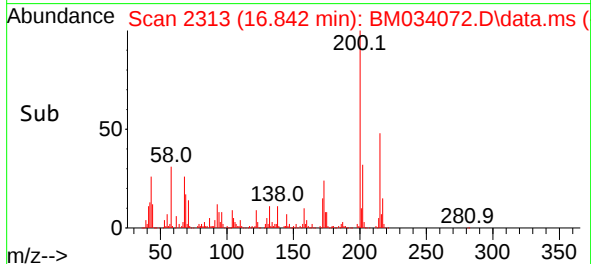
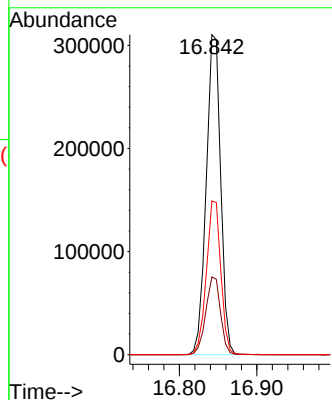
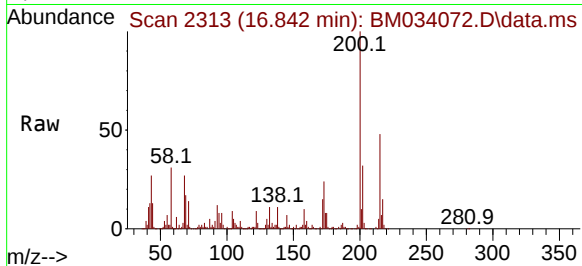




#69  
 Atrazine  
 Concen: 53.448 ng  
 RT: 16.842 min Scan# 21  
 Delta R.T. -0.012 min  
 Lab File: BM034072.D  
 Acq: 24 Feb 2022 18:04

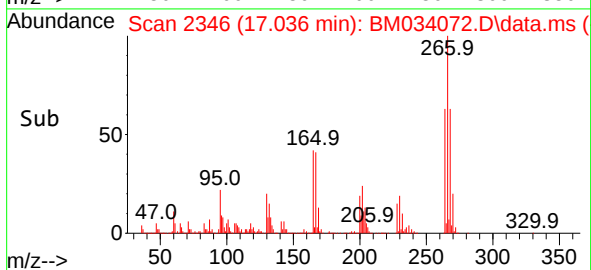
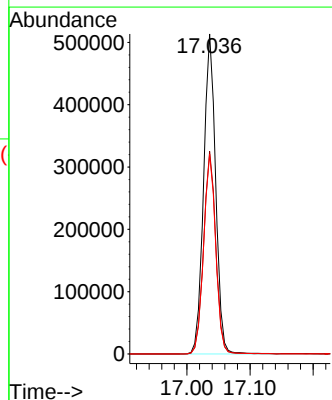
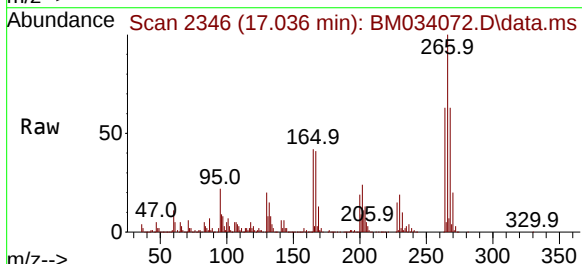
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SW-SURFICIAL-SOIL-(SW-SS)MS

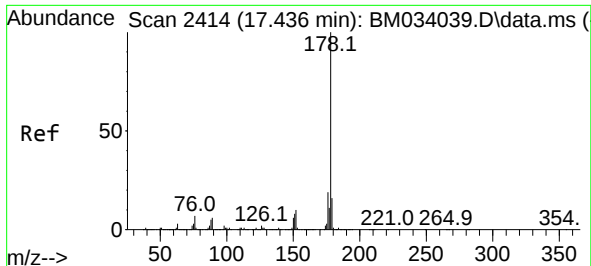
Tgt Ion:200 Resp: 402210  
 Ion Ratio Lower Upper  
 200 100  
 173 24.3 7.3 47.3  
 215 48.0 25.7 65.7



#70  
 Pentachlorophenol  
 Concen: 119.316 ng  
 RT: 17.036 min Scan# 2346  
 Delta R.T. -0.006 min  
 Lab File: BM034072.D  
 Acq: 24 Feb 2022 18:04

Tgt Ion:266 Resp: 681755  
 Ion Ratio Lower Upper  
 266 100  
 268 63.3 50.1 75.1  
 264 62.5 49.1 73.7

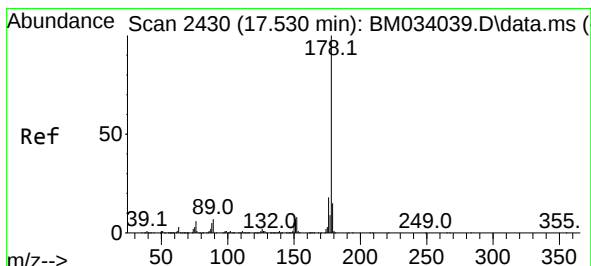
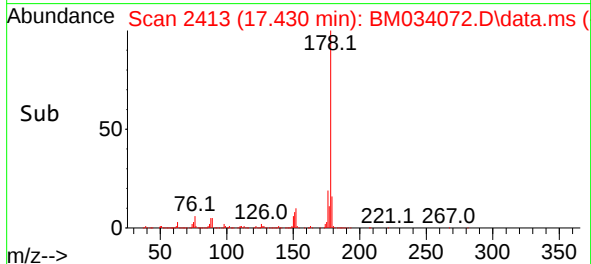
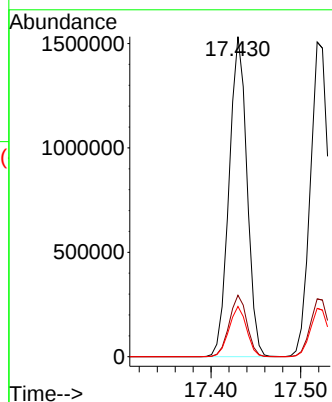
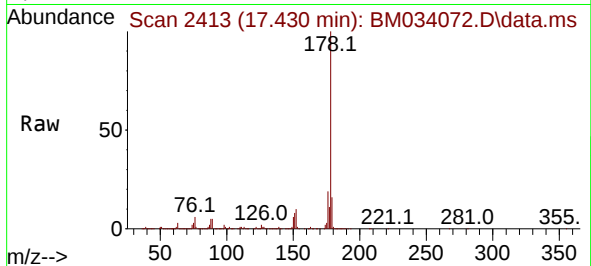




#71  
Phenanthrene  
Concen: 52.621 ng  
RT: 17.430 min Scan# 2414  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

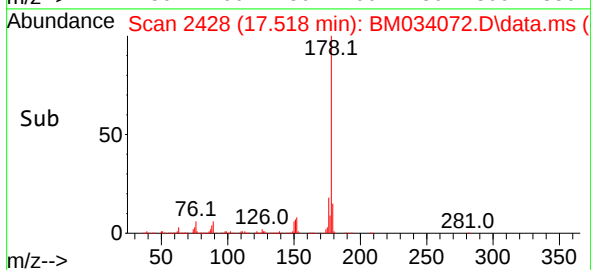
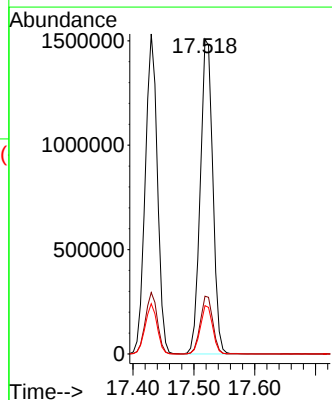
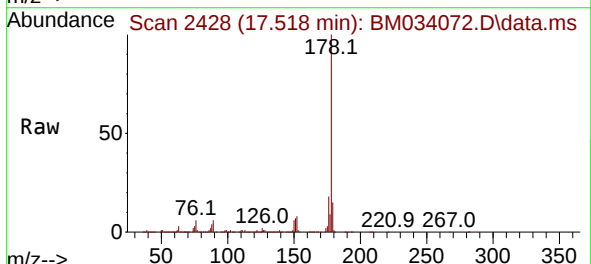
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

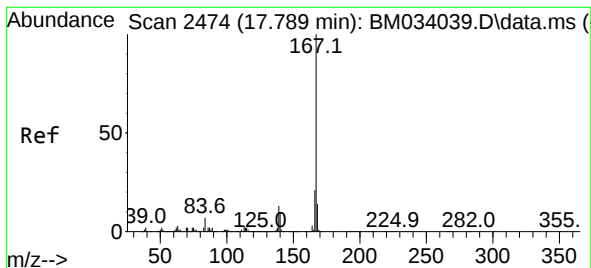
Tgt Ion:178 Resp: 2121010  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.1 22.7  
179 15.7 12.0 18.0



#72  
Anthracene  
Concen: 54.863 ng  
RT: 17.518 min Scan# 2428  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:178 Resp: 2151970  
Ion Ratio Lower Upper  
178 100  
176 18.4 14.5 21.7  
179 15.4 11.9 17.9





#73

Carbazole

Concen: 50.222 ng

RT: 17.783 min Scan# 2474

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

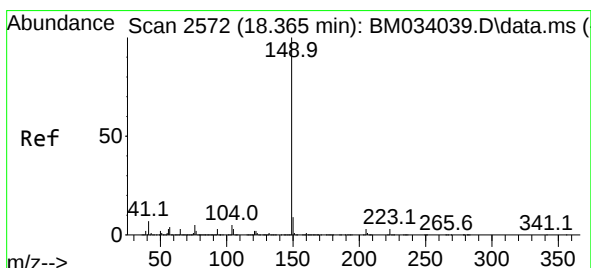
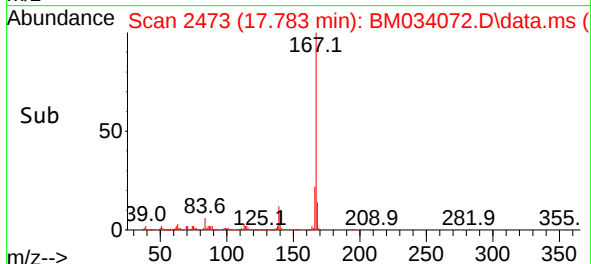
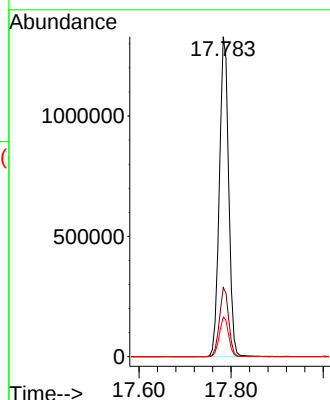
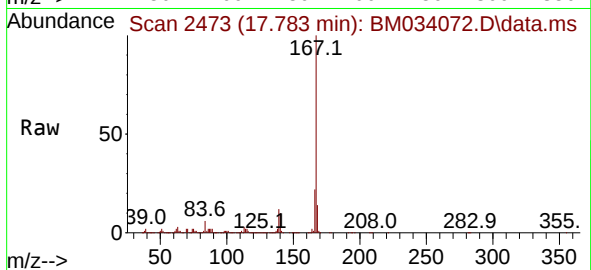
Tgt Ion:167 Resp: 1854841

Ion Ratio Lower Upper

167 100

166 21.6 17.2 25.8

139 12.4 11.0 16.4



#74

Di-n-butylphthalate

Concen: 53.763 ng

RT: 18.359 min Scan# 2571

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

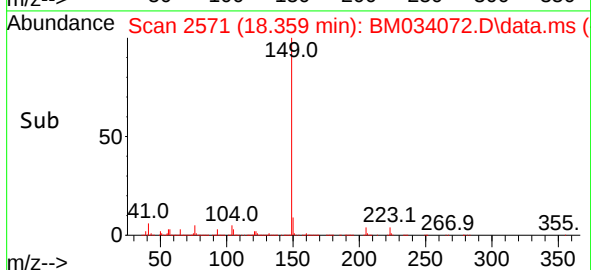
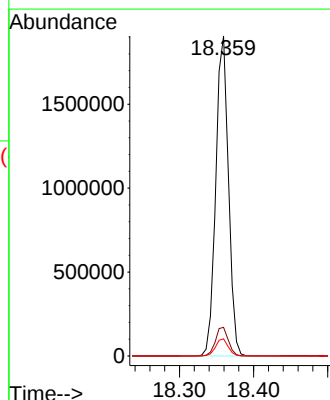
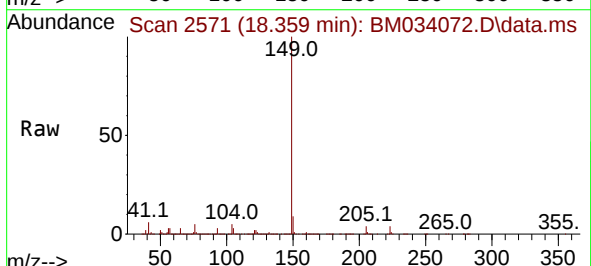
Tgt Ion:149 Resp: 2258737

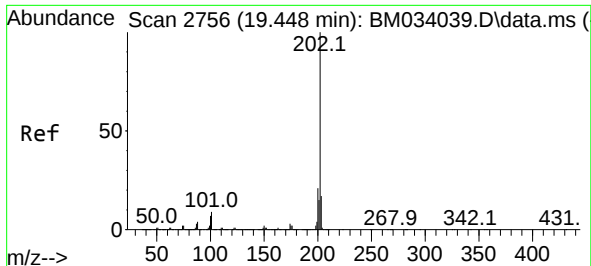
Ion Ratio Lower Upper

149 100

150 8.9 7.3 10.9

104 5.4 4.6 6.8

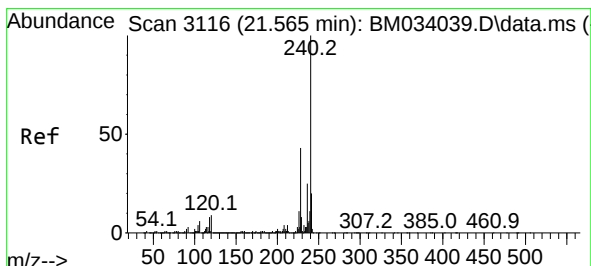
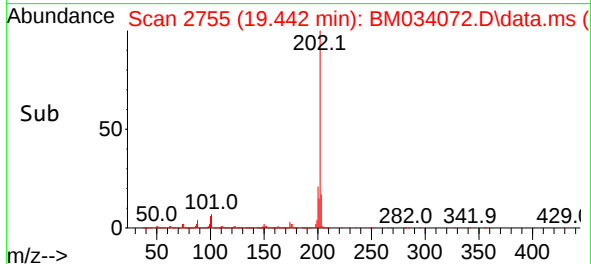
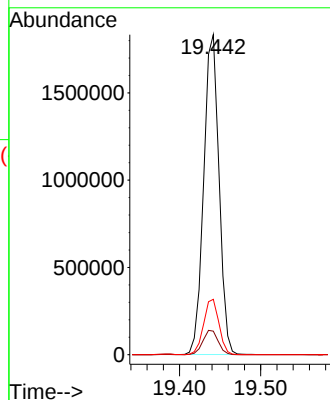
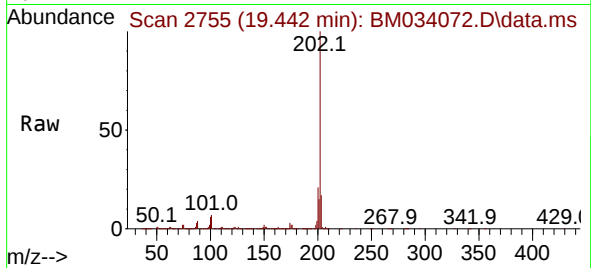




#75  
Fluoranthene  
Concen: 54.221 ng  
RT: 19.442 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

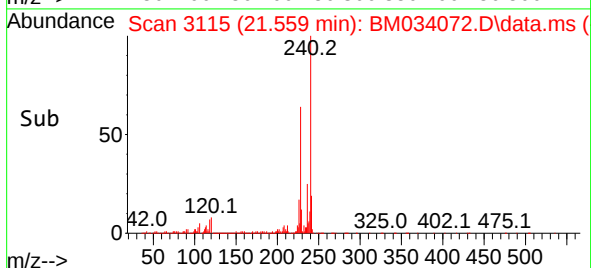
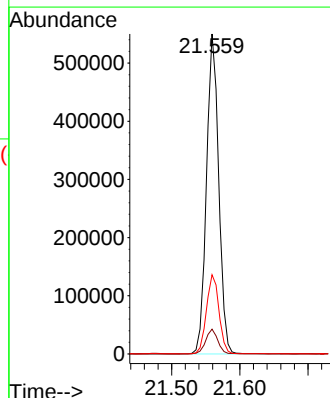
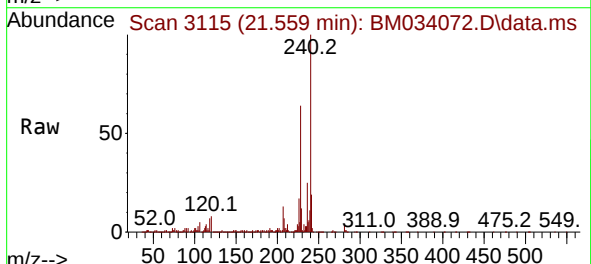
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BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

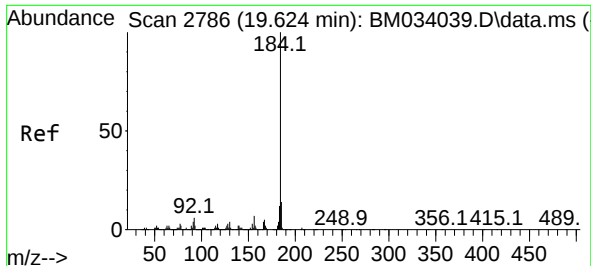
Tgt Ion:202 Resp: 2401085  
Ion Ratio Lower Upper  
202 100  
101 7.4 0.0 30.8  
203 17.3 0.0 37.2



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.559 min Scan# 3115  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:240 Resp: 685102  
Ion Ratio Lower Upper  
240 100  
120 7.7 7.8 11.6#  
236 24.8 20.3 30.5

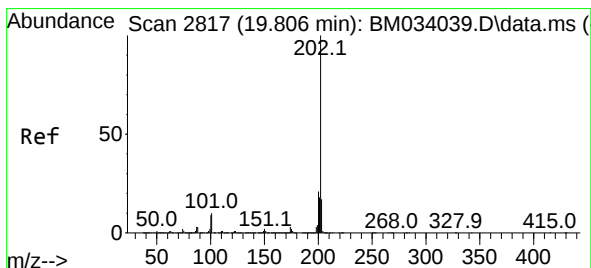
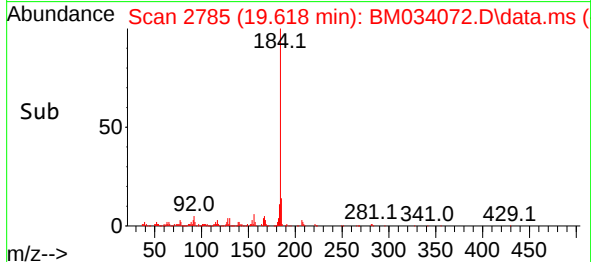
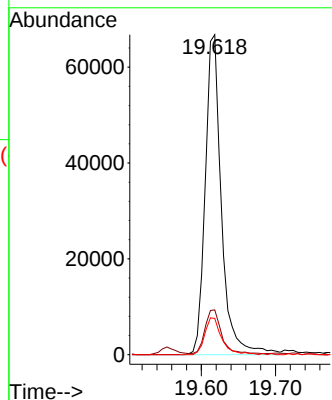
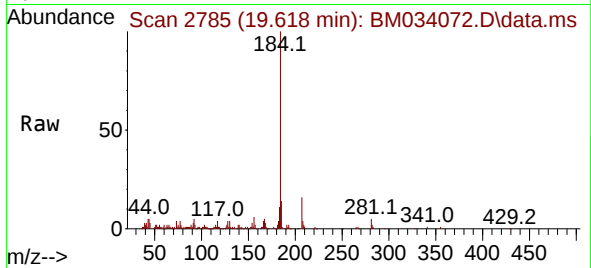




#77  
Benzidine  
Concen: 7.967 ng  
RT: 19.618 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

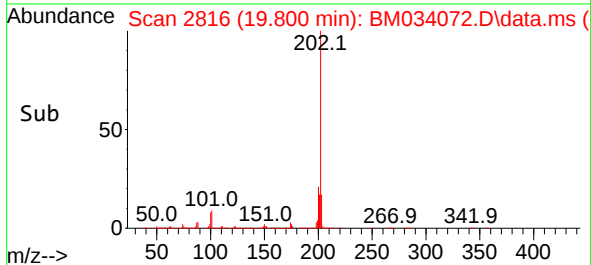
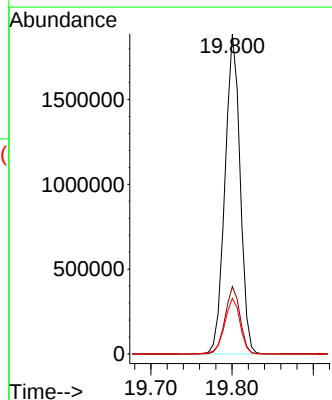
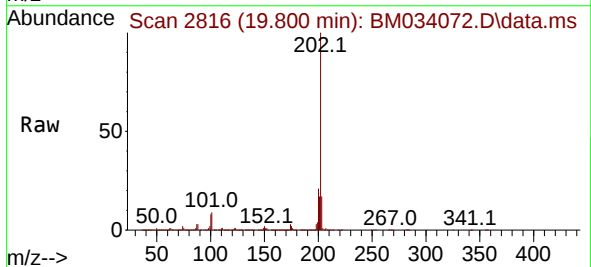
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

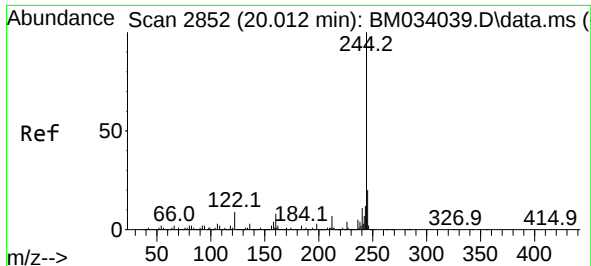
Tgt Ion:184 Resp: 101651  
Ion Ratio Lower Upper  
184 100  
185 14.0 11.4 17.0  
183 11.3 9.7 14.5



#78  
Pyrene  
Concen: 52.144 ng  
RT: 19.800 min Scan# 2816  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:202 Resp: 2453426  
Ion Ratio Lower Upper  
202 100  
200 21.0 16.4 24.6  
203 17.4 13.5 20.3

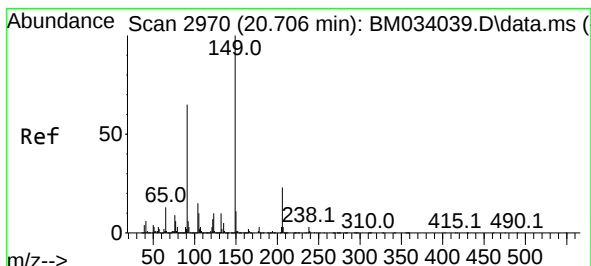
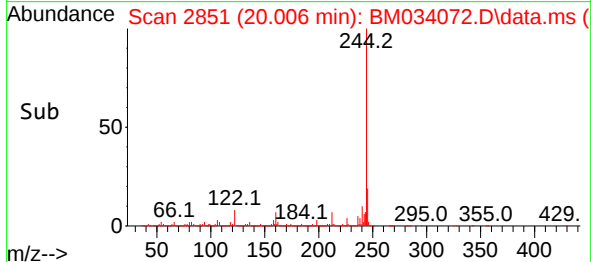
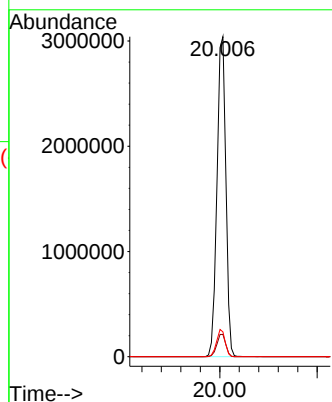
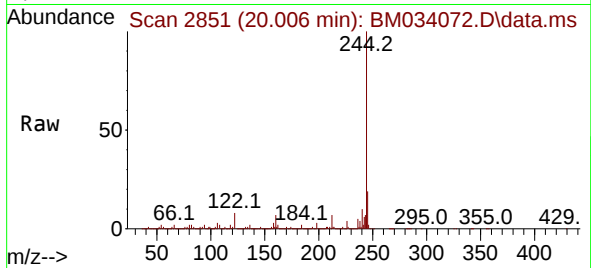




#79  
 Terphenyl-d14  
 Concen: 97.309 ng  
 RT: 20.006 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BM034072.D  
 Acq: 24 Feb 2022 18:04

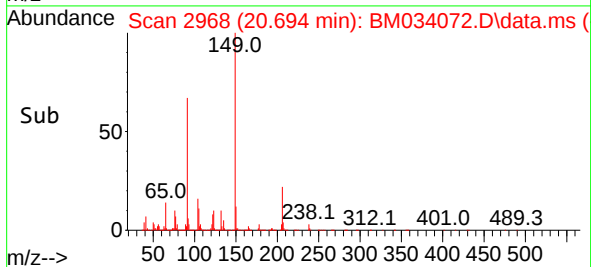
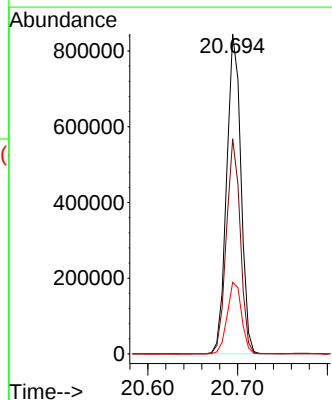
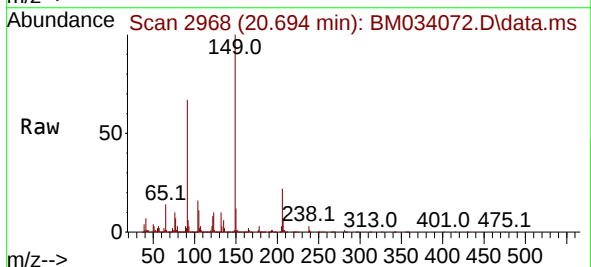
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SW-SURFICIAL-SOIL-(SW-SS)MS

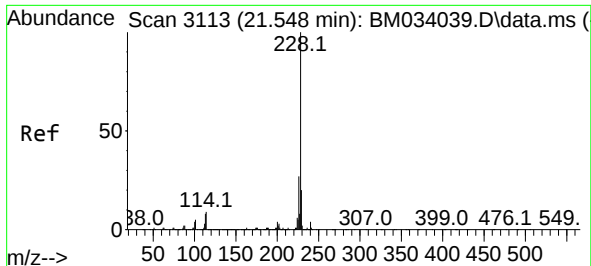
Tgt Ion:244 Resp: 3828470  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.9 8.9  
 122 7.7 8.4 12.6#



#80  
 Butylbenzylphthalate  
 Concen: 52.005 ng  
 RT: 20.694 min Scan# 2968  
 Delta R.T. -0.012 min  
 Lab File: BM034072.D  
 Acq: 24 Feb 2022 18:04

Tgt Ion:149 Resp: 931777  
 Ion Ratio Lower Upper  
 149 100  
 91 67.2 63.4 95.0  
 206 22.4 16.8 25.2

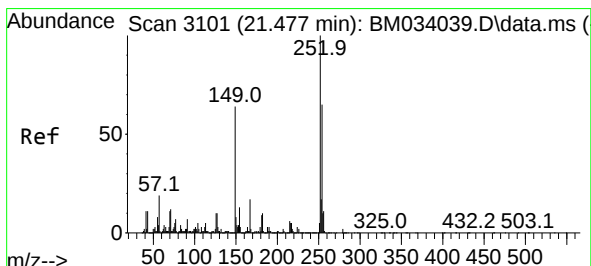
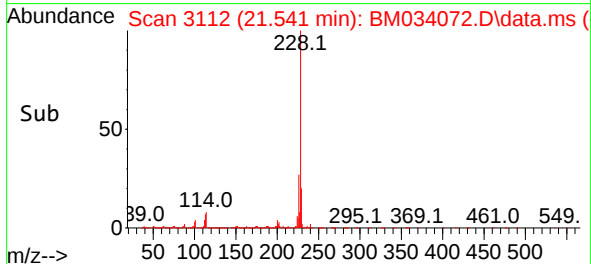
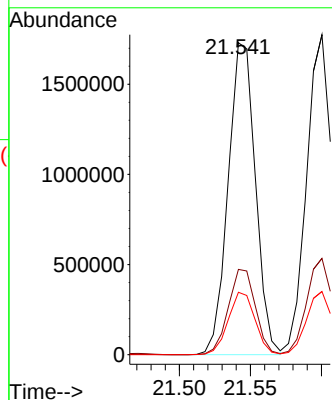
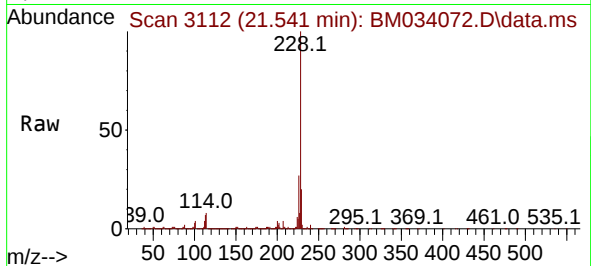




#81  
Benzo(a)anthracene  
Concen: 51.922 ng  
RT: 21.541 min Scan# 3113  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

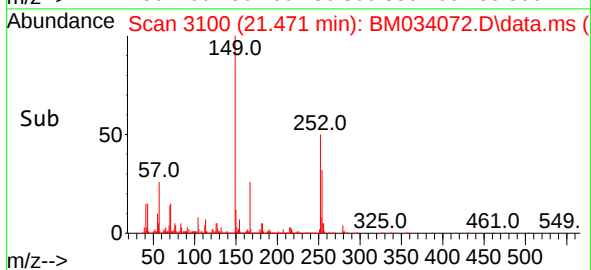
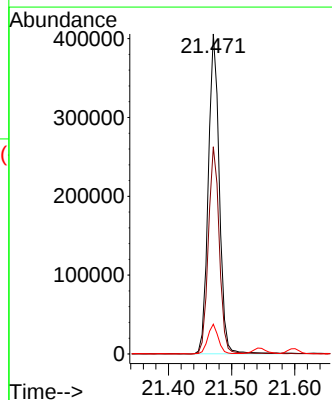
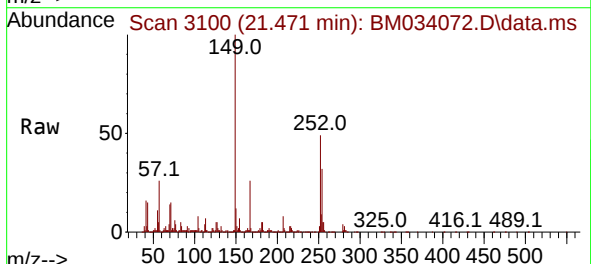
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

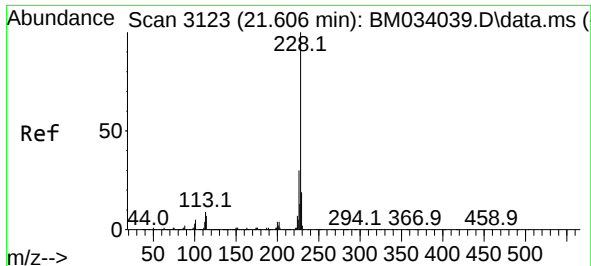
Tgt Ion:228 Resp: 2314528  
Ion Ratio Lower Upper  
228 100  
226 27.3 21.0 31.6  
229 20.0 15.5 23.3



#82  
3,3'-Dichlorobenzidine  
Concen: 32.684 ng  
RT: 21.471 min Scan# 3100  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:252 Resp: 492052  
Ion Ratio Lower Upper  
252 100  
254 64.7 50.9 76.3  
126 9.3 8.8 13.2





#83

Chrysene

Concen: 52.258 ng

RT: 21.600 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

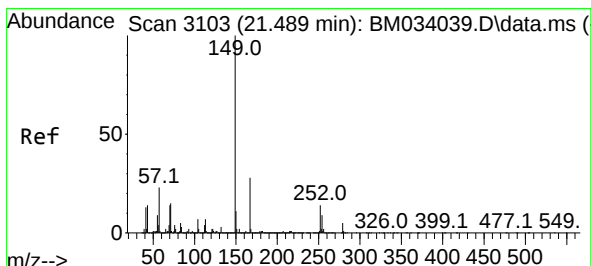
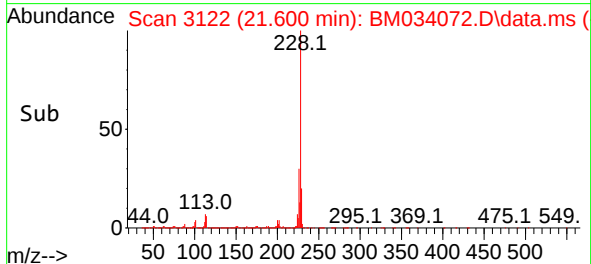
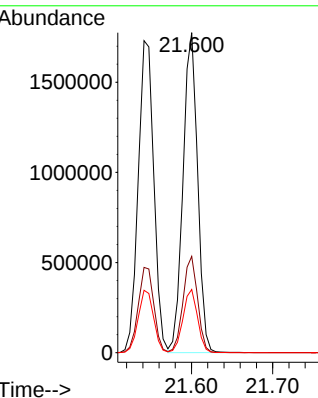
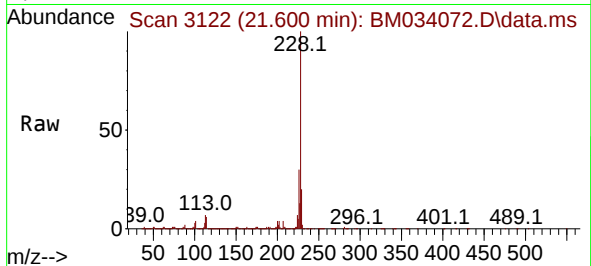
Tgt Ion:228 Resp: 2225245

Ion Ratio Lower Upper

228 100

226 30.1 23.8 35.8

229 19.7 15.8 23.8



#84

Bis(2-ethylhexyl)phthalate

Concen: 50.680 ng

RT: 21.477 min Scan# 3101

Delta R.T. -0.012 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

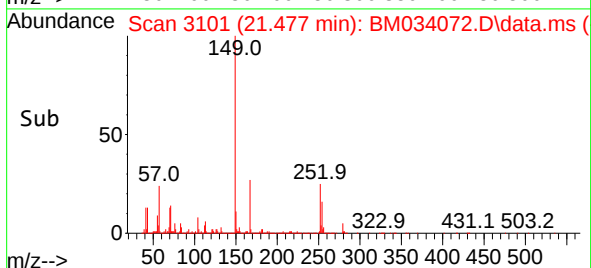
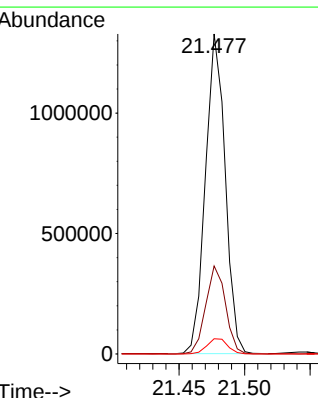
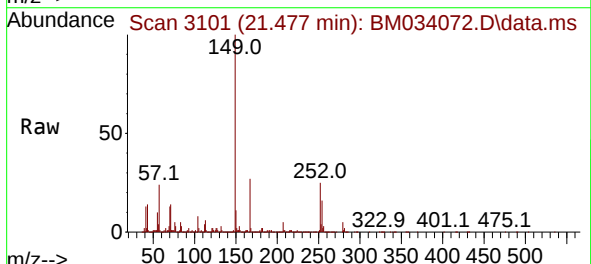
Tgt Ion:149 Resp: 1387114

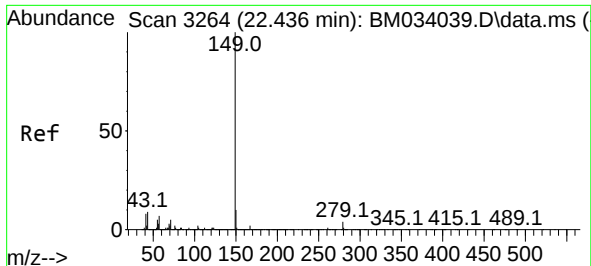
Ion Ratio Lower Upper

149 100

167 27.5 21.4 32.0

279 4.8 3.0 4.6#

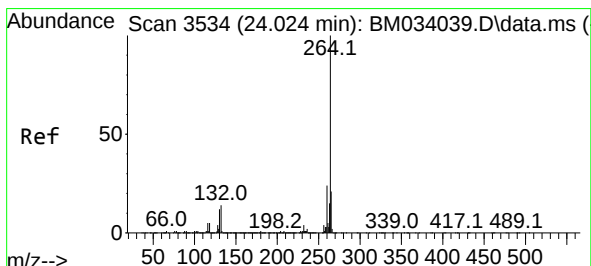
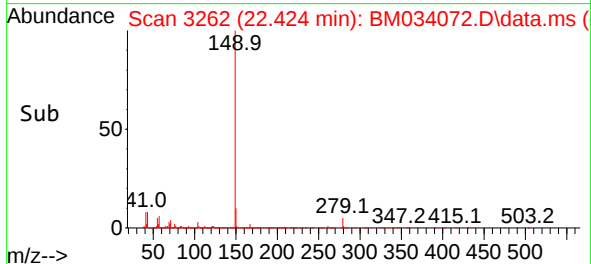
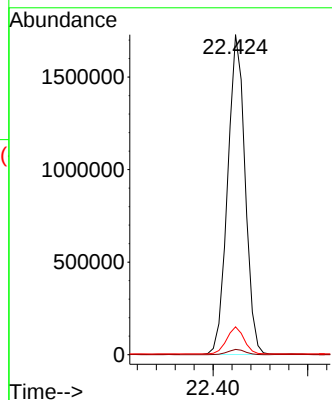
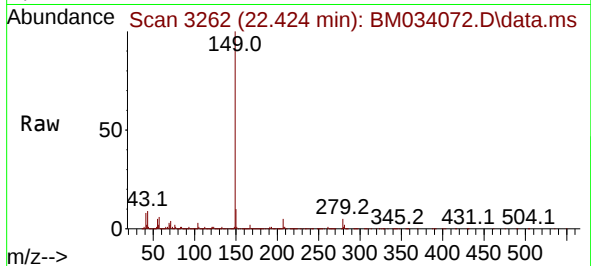




#85  
Di-n-octyl phthalate  
Concen: 51.015 ng  
RT: 22.424 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

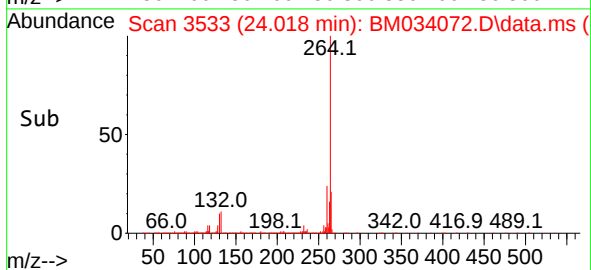
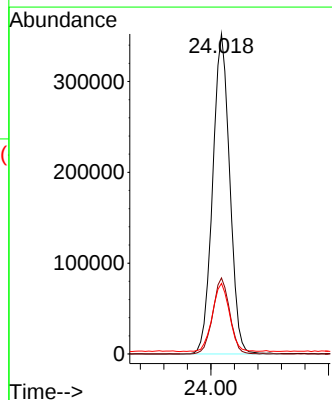
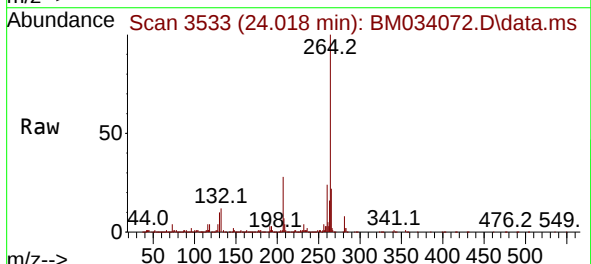
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

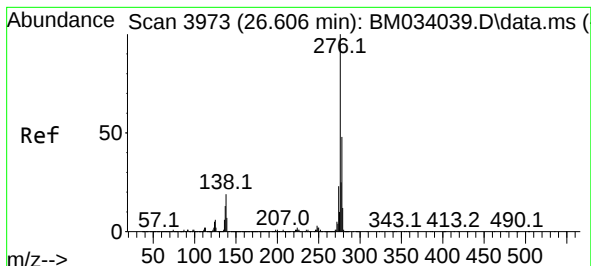
Tgt Ion:149 Resp: 2212999  
Ion Ratio Lower Upper  
149 100  
167 1.6 1.3 1.9  
43 8.4 10.4 15.6#



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.018 min Scan# 3533  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:264 Resp: 709202  
Ion Ratio Lower Upper  
264 100  
260 23.7 17.7 26.5  
265 22.0 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 59.999 ng

RT: 26.600 min Scan# 3973

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

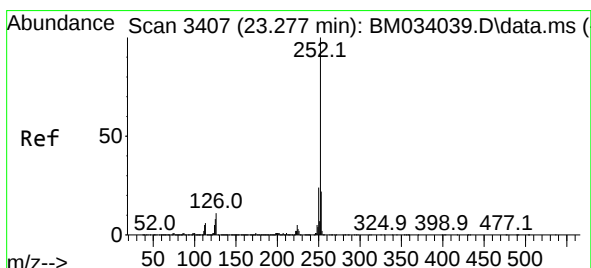
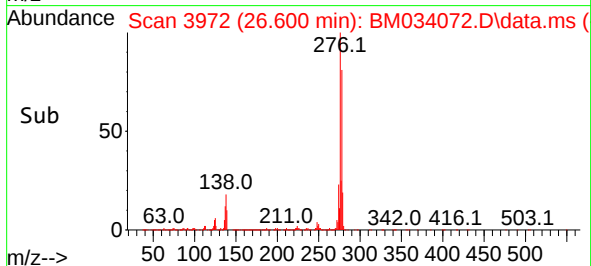
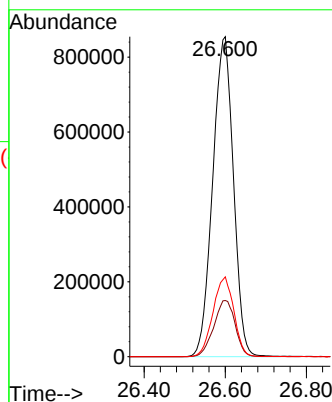
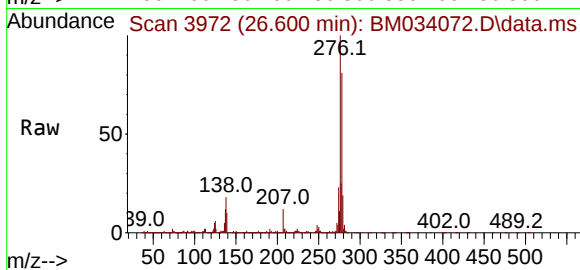
Tgt Ion:276 Resp: 3025195

Ion Ratio Lower Upper

276 100

138 18.2 18.7 28.1#

277 25.1 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 54.628 ng

RT: 23.271 min Scan# 3406

Delta R.T. -0.006 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

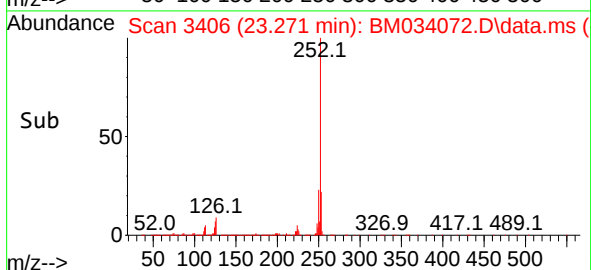
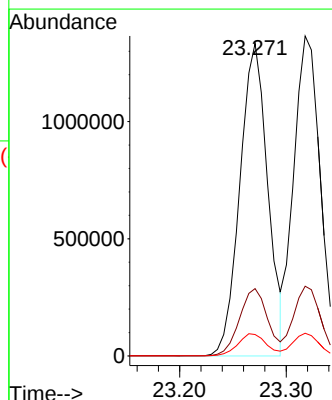
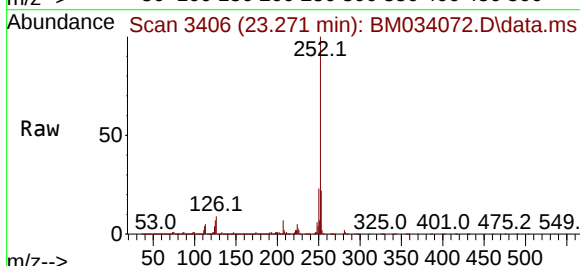
Tgt Ion:252 Resp: 2427912

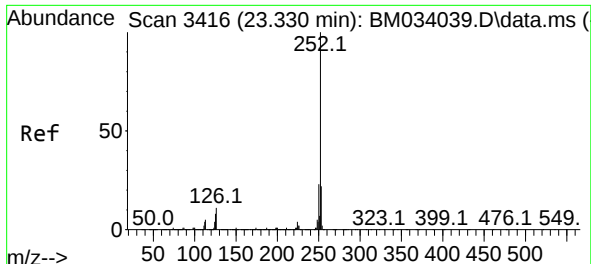
Ion Ratio Lower Upper

252 100

253 21.5 17.1 25.7

125 6.9 7.4 11.2#

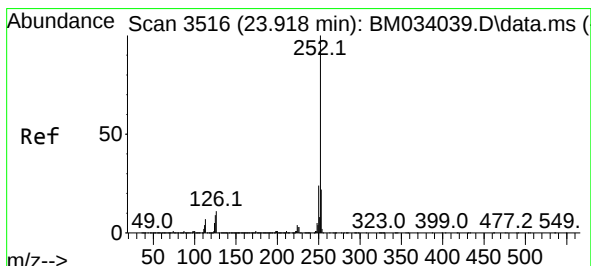
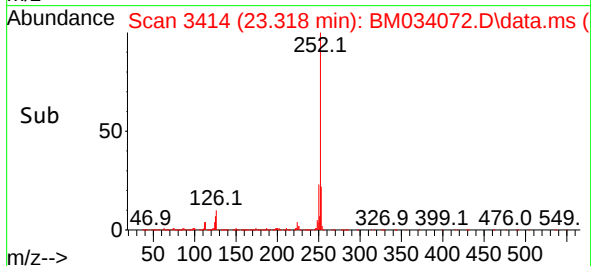
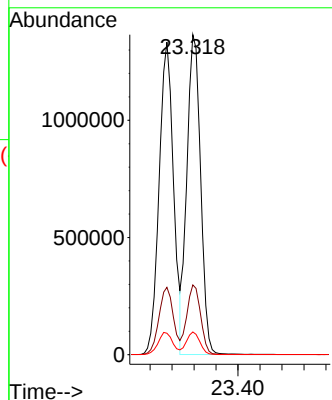
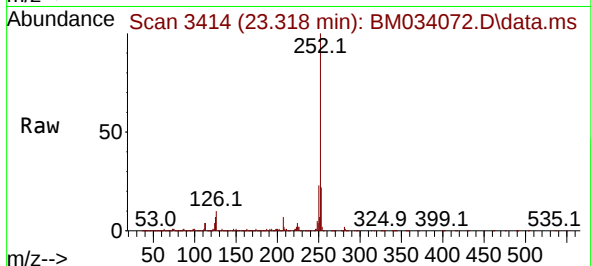




#89  
Benzo(k)fluoranthene  
Concen: 53.182 ng  
RT: 23.318 min Scan# 3416  
Delta R.T. -0.012 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

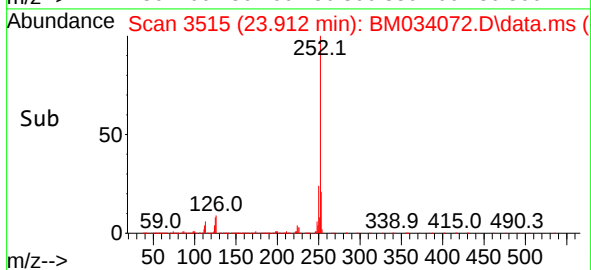
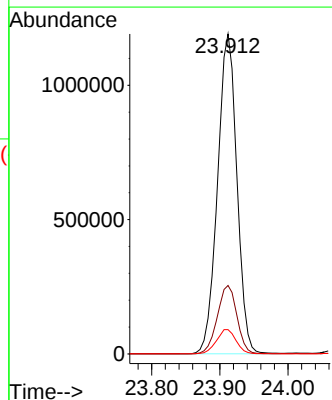
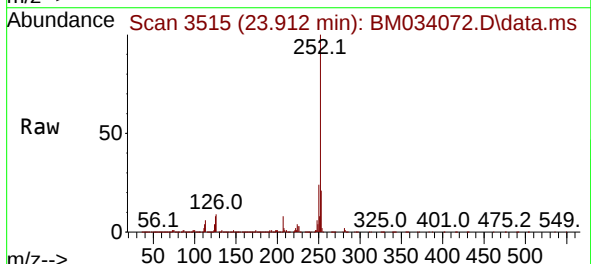
Instrument :  
BNA\_M  
ClientSampleId :  
SW-SURFICIAL-SOIL-(SW-SS)MS

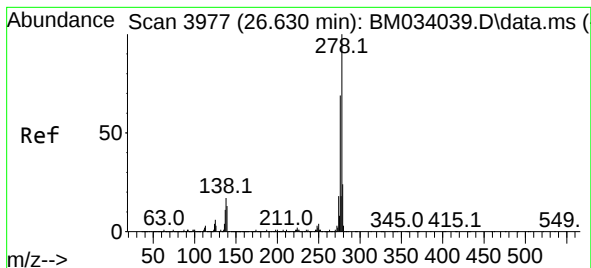
Tgt Ion:252 Resp: 2357914  
Ion Ratio Lower Upper  
252 100  
253 21.8 17.8 26.8  
125 7.1 8.1 12.1#



#90  
Benzo(a)pyrene  
Concen: 64.427 ng  
RT: 23.912 min Scan# 3515  
Delta R.T. -0.006 min  
Lab File: BM034072.D  
Acq: 24 Feb 2022 18:04

Tgt Ion:252 Resp: 2352982  
Ion Ratio Lower Upper  
252 100  
253 21.4 17.5 26.3  
125 7.6 7.8 11.8#





#91

Dibenzo(a,h)anthracene

Concen: 61.692 ng

RT: 26.618 min Scan# 3975

Delta R.T. -0.012 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Instrument :

BNA\_M

ClientSampleId :

SW-SURFICIAL-SOIL-(SW-SS)MS

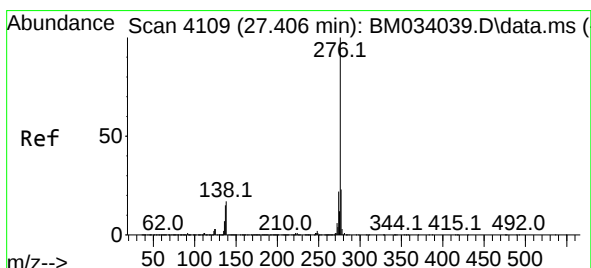
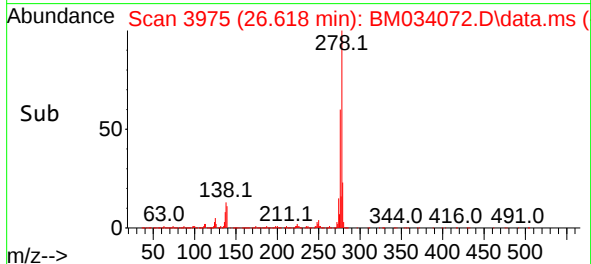
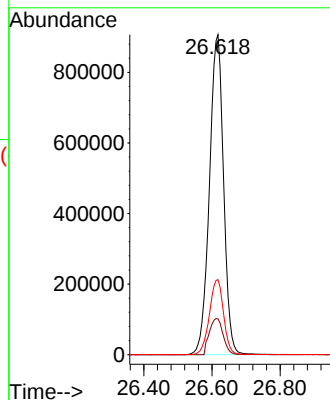
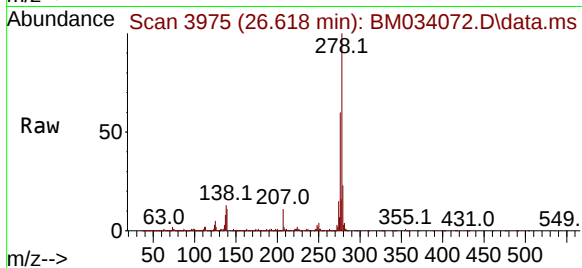
Tgt Ion:278 Resp: 2616014

Ion Ratio Lower Upper

278 100

139 11.2 10.9 16.3

279 23.5 17.7 26.5



#92

Benzo(g,h,i)perylene

Concen: 64.347 ng

RT: 27.382 min Scan# 4105

Delta R.T. -0.024 min

Lab File: BM034072.D

Acq: 24 Feb 2022 18:04

Tgt Ion:276 Resp: 2643322

Ion Ratio Lower Upper

276 100

277 24.4 19.1 28.7

138 15.8 14.8 22.2

