

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101922\  
 Data File : BF130718.D  
 Acq On : 19 Oct 2022 19:00  
 Operator : CG\JU  
 Sample : N5133-02MSD  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HAS-SOIL-1013MSD

Quant Time: Oct 20 02:46:01 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101122.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 18 03:15:54 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.569  | 152  | 92798    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 7.851  | 136  | 346757   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.604  | 164  | 169943   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.080 | 188  | 348606   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 13.716 | 240  | 173110   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.086 | 264  | 140128   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.193  | 112  | 602214   | 116.976 | ng    | 0.02     |
| 7) Phenol-d6                  | 6.234  | 99   | 676190   | 104.468 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.145  | 82   | 410511   | 64.628  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.392 | 330  | 249106   | 149.804 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 8.928  | 172  | 908984   | 81.020  | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.663 | 244  | 855844   | 82.056  | ng    | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.305  | 88   | 101680   | 32.646  | ng    | # 85     |
| 3) Pyridine                   | 2.963  | 79   | 161920   | 29.063  | ng    | 96       |
| 4) n-Nitrosodimethylamine     | 2.887  | 42   | 107686   | 41.023  | ng    | 94       |
| 6) Aniline                    | 6.240  | 93   | 119831   | 15.464  | ng    | # 25     |
| 8) 2-Chlorophenol             | 6.363  | 128  | 281141   | 46.437  | ng    | 98       |
| 9) Benzaldehyde               | 6.128  | 77   | 84751    | 20.841  | ng    | 98       |
| 10) Phenol                    | 6.245  | 94   | 281804   | 37.628  | ng    | 80       |
| 11) bis(2-Chloroethyl)ether   | 6.316  | 93   | 277910   | 51.085  | ng    | 96       |
| 12) 1,3-Dichlorobenzene       | 6.510  | 146  | 271382   | 40.939  | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 6.587  | 146  | 294614   | 43.809  | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 6.740  | 146  | 252695   | 40.347  | ng    | 98       |
| 15) Benzyl Alcohol            | 6.740  | 79   | 180498   | 38.841  | ng    | 97       |
| 16) 2,2'-oxybis(1-Chloropr... | 6.857  | 45   | 277412   | 39.636  | ng    | # 43     |
| 17) 2-Methylphenol            | 6.851  | 107  | 212999   | 44.228  | ng    | # 92     |
| 18) Hexachloroethane          | 7.075  | 117  | 105472   | 41.458  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 6.998  | 70   | 181533   | 43.470  | ng    | 98       |
| 20) 3+4-Methylphenols         | 7.010  | 107  | 284724   | 44.121  | ng    | # 80     |
| 22) Acetophenone              | 6.992  | 105  | 388983   | 46.763  | ng    | 94       |
| 24) Nitrobenzene              | 7.163  | 77   | 240258   | 37.612  | ng    | 97       |
| 25) Isophorone                | 7.404  | 82   | 494240   | 46.751  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.481  | 139  | 154639   | 49.364  | ng    | 99       |
| 27) 2,4-Dimethylphenol        | 7.528  | 122  | 221306   | 50.687  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.616  | 93   | 282509   | 46.151  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 7.728  | 162  | 215490   | 44.113  | ng    | 97       |
| 30) 1,2,4-Trichlorobenzene    | 7.792  | 180  | 210404   | 39.953  | ng    | 98       |
| 31) Naphthalene               | 7.875  | 128  | 757925   | 42.225  | ng    | 99       |
| 32) Benzoic acid              | 7.698  | 122  | 113387   | 41.050  | ng    | 96       |
| 33) 4-Chloroaniline           | 7.939  | 127  | 159227   | 22.900  | ng    | 97       |
| 34) Hexachlorobutadiene       | 7.987  | 225  | 130948   | 40.062  | ng    | 98       |
| 35) Caprolactam               | 8.322  | 113  | 30059    | 20.452  | ng    | 95       |
| 36) 4-Chloro-3-methylphenol   | 8.439  | 107  | 206898   | 39.047  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 8.563  | 142  | 467765   | 41.411  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 8.663  | 142  | 491004   | 44.777  | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 8.728  | 216  | 232498   | 50.425  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 8.710  | 237  | 106287   | 62.765  | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 8.857  | 196  | 147323   | 47.587  | ng    | 100      |

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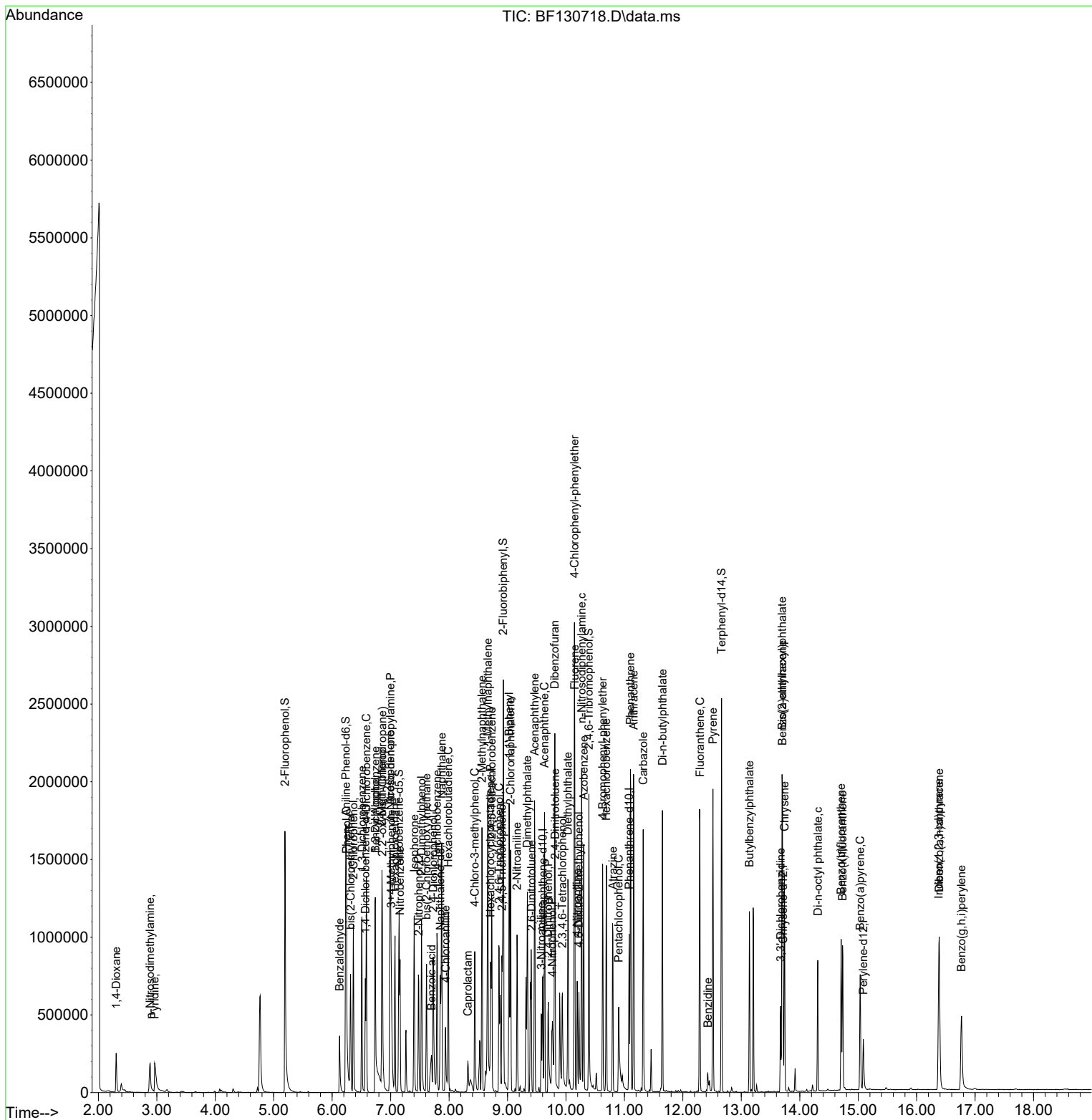
Quant Time: Oct 20 02:46:01 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101122.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 18 03:15:54 2022  
 Response via : Initial Calibration

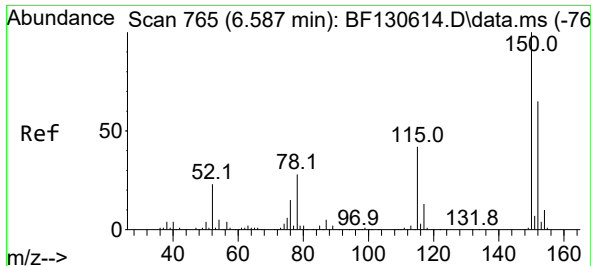
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 8.904  | 196  | 165753   | 48.685 | ng    | 97       |
| 46) 1,1'-Biphenyl             | 9.028  | 154  | 576150   | 46.781 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.051  | 162  | 470991   | 46.791 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.163  | 65   | 161897   | 53.430 | ng    | 92       |
| 49) Acenaphthylene            | 9.463  | 152  | 632417   | 41.932 | ng    | 99       |
| 50) Dimethylphthalate         | 9.339  | 163  | 593670   | 50.465 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.410  | 165  | 112772   | 43.702 | ng    | # 86     |
| 52) Acenaphthene              | 9.633  | 154  | 385378   | 42.174 | ng    | 99       |
| 53) 3-Nitroaniline            | 9.581  | 138  | 85570    | 30.251 | ng    | 91       |
| 54) 2,4-Dinitrophenol         | 9.698  | 184  | 107872   | 81.909 | ng    | 97       |
| 55) Dibenzofuran              | 9.810  | 168  | 601090   | 43.181 | ng    | 99       |
| 56) 4-Nitrophenol             | 9.769  | 139  | 64247    | 41.193 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 9.816  | 165  | 151668   | 45.732 | ng    | # 74     |
| 58) Fluorene                  | 10.151 | 166  | 549653   | 48.028 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol | 9.939  | 232  | 117232   | 43.191 | ng    | 96       |
| 60) Diethylphthalate          | 10.033 | 149  | 527247   | 44.920 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.145 | 204  | 251339   | 48.577 | ng    | 94       |
| 62) 4-Nitroaniline            | 10.192 | 138  | 123018   | 45.551 | ng    | 97       |
| 63) Azobenzene                | 10.304 | 77   | 526756   | 47.648 | ng    | 97       |
| 65) 4,6-Dinitro-2-methylph... | 10.222 | 198  | 90741    | 41.653 | ng    | 89       |
| 66) n-Nitrosodiphenylamine    | 10.269 | 169  | 469452   | 40.484 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.628 | 248  | 166983   | 42.334 | ng    | 96       |
| 68) Hexachlorobenzene         | 10.692 | 284  | 190284   | 42.675 | ng    | 94       |
| 69) Atrazine                  | 10.804 | 200  | 142811   | 45.227 | ng    | 98       |
| 70) Pentachlorophenol         | 10.904 | 266  | 126143   | 72.688 | ng    | 97       |
| 71) Phenanthrene              | 11.104 | 178  | 811164   | 41.999 | ng    | 99       |
| 72) Anthracene                | 11.157 | 178  | 762866   | 40.443 | ng    | 100      |
| 73) Carbazole                 | 11.322 | 167  | 652906   | 38.790 | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.651 | 149  | 875277   | 42.930 | ng    | 99       |
| 75) Fluoranthene              | 12.292 | 202  | 780299   | 42.036 | ng    | 99       |
| 77) Benzidine                 | 12.427 | 184  | 54193    | 12.385 | ng    | 97       |
| 78) Pyrene                    | 12.516 | 202  | 770781   | 51.611 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.139 | 149  | 250816   | 43.676 | ng    | 96       |
| 81) Benzo(a)anthracene        | 13.704 | 228  | 488986   | 41.921 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 13.674 | 252  | 123540   | 36.651 | ng    | # 95     |
| 83) Chrysene                  | 13.739 | 228  | 458653   | 41.472 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 13.698 | 149  | 299592   | 43.033 | ng    | 98       |
| 85) Di-n-octyl phthalate      | 14.310 | 149  | 400940   | 37.604 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.380 | 276  | 449029   | 42.813 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 14.710 | 252  | 388166   | 43.746 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 14.733 | 252  | 392540   | 43.447 | ng    | 98       |
| 90) Benzo(a)pyrene            | 15.033 | 252  | 338833   | 45.881 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 16.386 | 278  | 390281   | 45.397 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 16.768 | 276  | 389034   | 48.586 | ng    | 97       |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 18 03:15:54 2022  
Response via : Initial Calibration

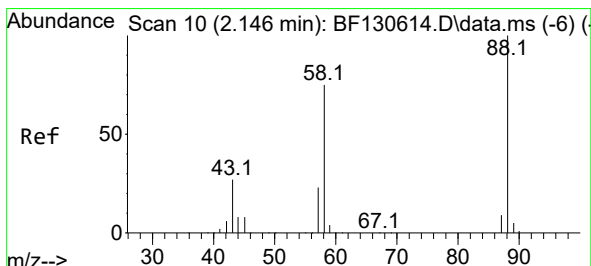
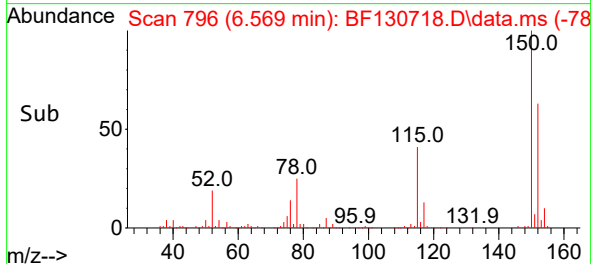
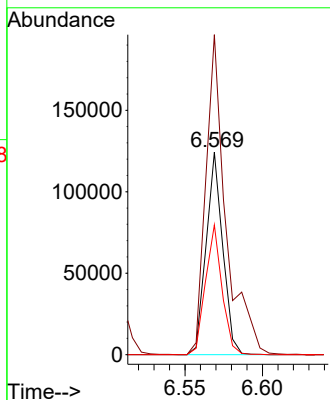
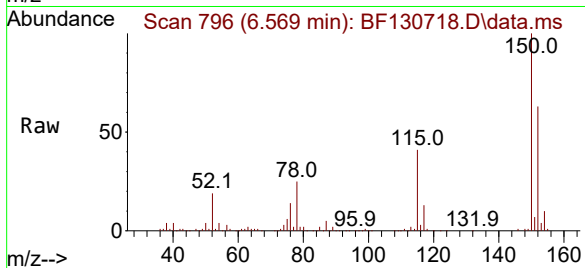




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.569 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

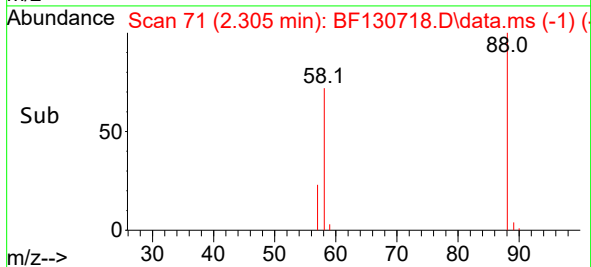
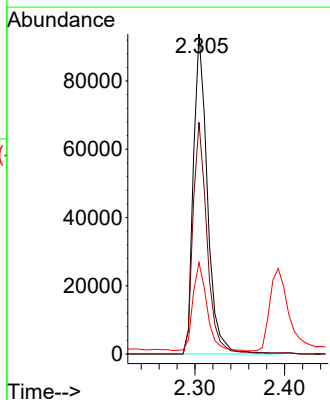
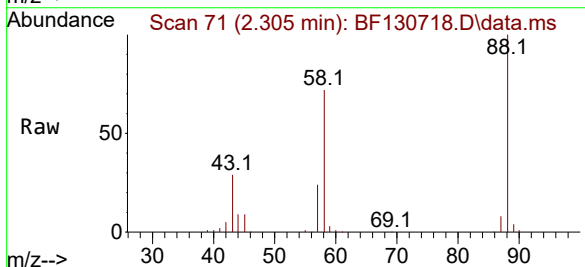
Instrument :  
BNA\_F  
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HAS-SOIL-1013MSD

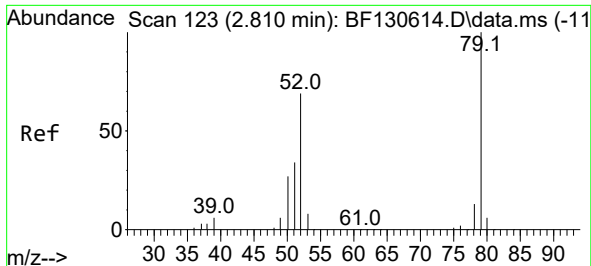
Tgt Ion:152 Resp: 92798  
Ion Ratio Lower Upper  
152 100  
150 157.9 123.8 185.6  
115 64.0 52.2 78.4



#2  
1,4-Dioxane  
Concen: 32.646 ng  
RT: 2.305 min Scan# 71  
Delta R.T. 0.171 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion: 88 Resp: 101680  
Ion Ratio Lower Upper  
88 100  
58 72.4 58.8 88.2  
43 0.0 22.2 33.4

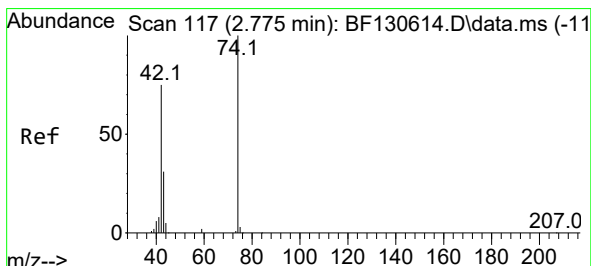
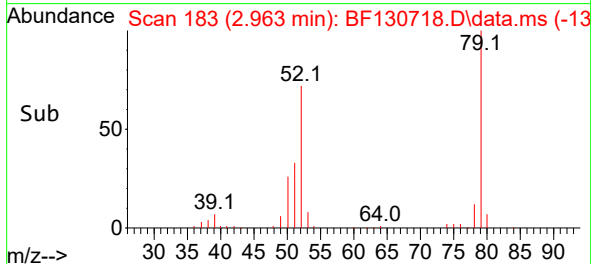
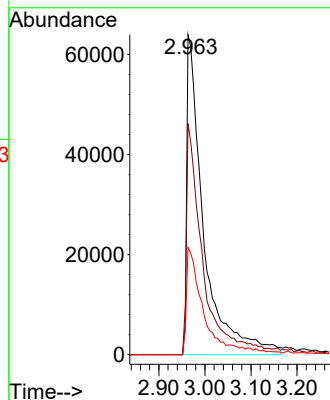
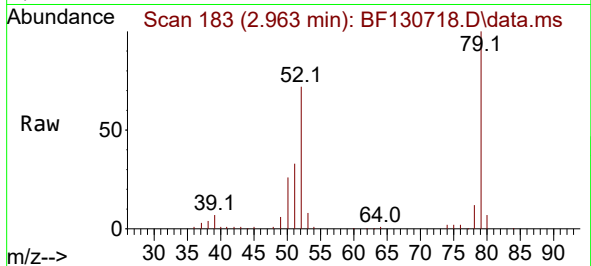




#3  
Pyridine  
Concen: 29.063 ng  
RT: 2.963 min Scan# 11  
Delta R.T. 0.176 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

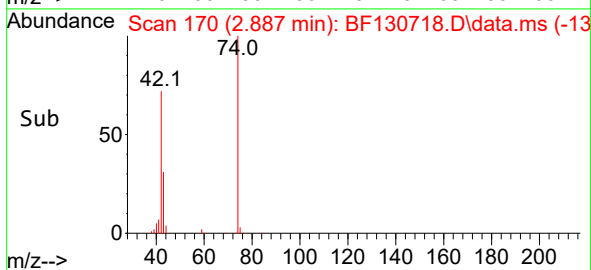
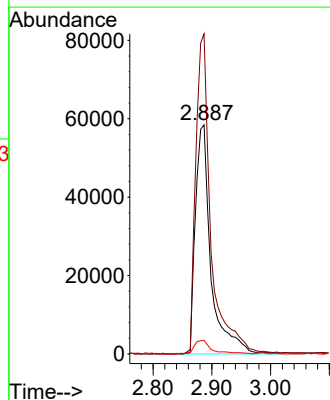
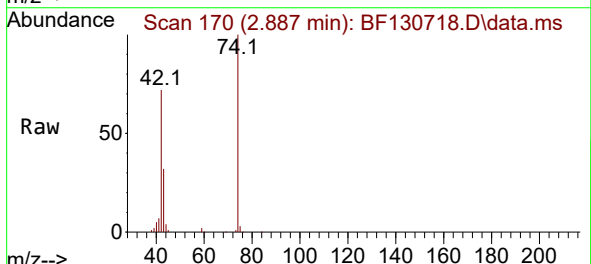
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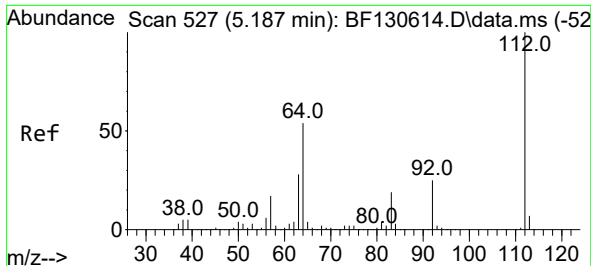
Tgt Ion: 79 Resp: 161920  
Ion Ratio Lower Upper  
79 100  
52 72.2 54.8 82.2  
51 33.5 27.4 41.2



#4  
n-Nitrosodimethylamine  
Concen: 41.023 ng  
RT: 2.887 min Scan# 170  
Delta R.T. 0.129 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion: 42 Resp: 107686  
Ion Ratio Lower Upper  
42 100  
74 139.7 106.2 159.2  
44 5.9 5.0 7.4

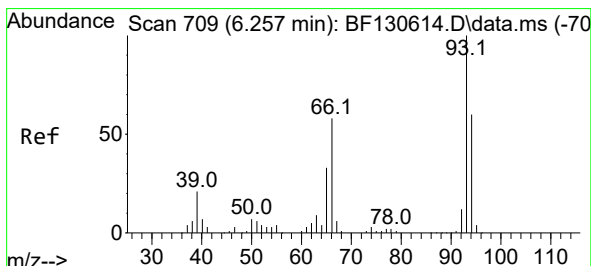
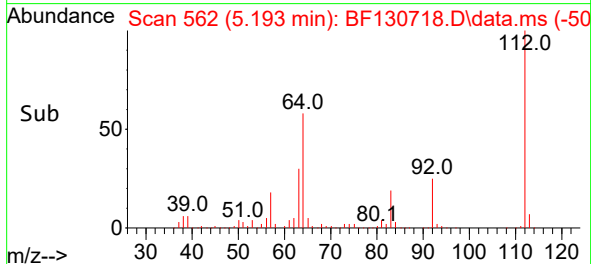
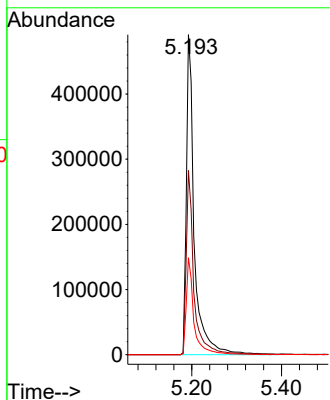
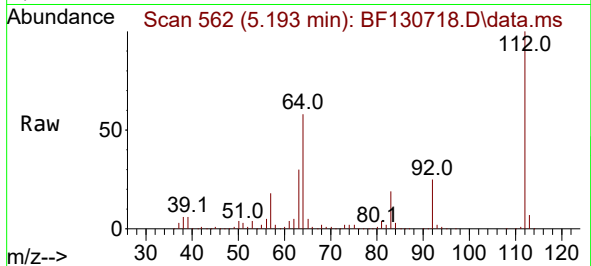




#5  
2-Fluorophenol  
Concen: 116.976 ng  
RT: 5.193 min Scan# 50  
Delta R.T. 0.024 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

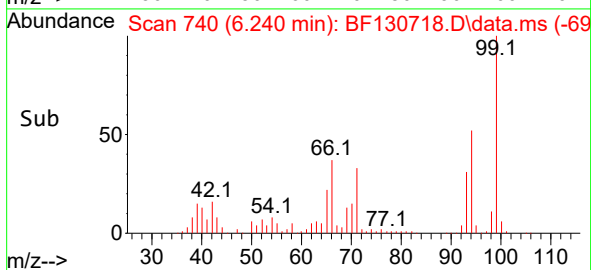
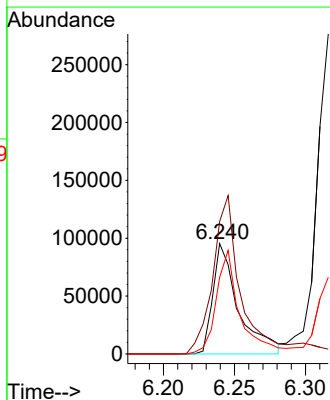
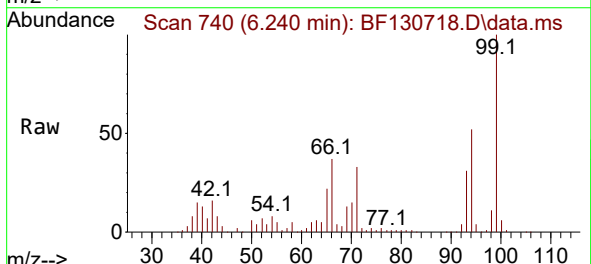
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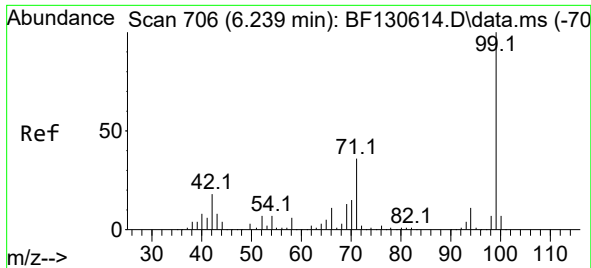
Tgt Ion:112 Resp: 602214  
Ion Ratio Lower Upper  
112 100  
64 57.5 43.5 65.3  
63 30.3 22.6 34.0



#6  
Aniline  
Concen: 15.464 ng  
RT: 6.240 min Scan# 740  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion: 93 Resp: 119831  
Ion Ratio Lower Upper  
93 100  
66 120.0 47.4 71.0#  
65 69.4 26.6 40.0#

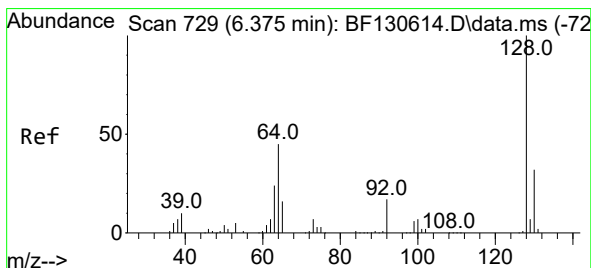
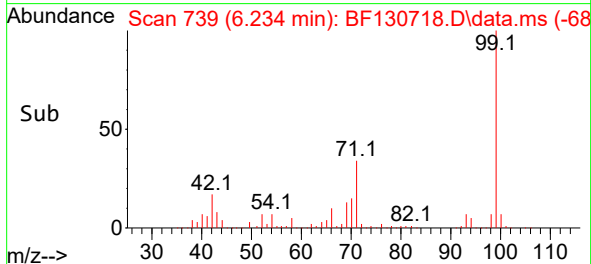
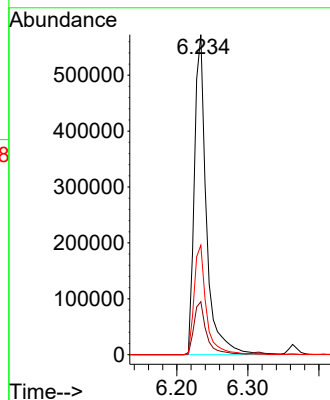
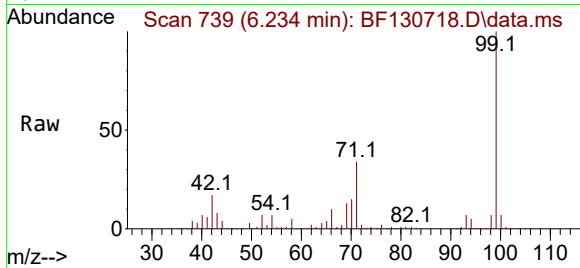




#7  
Phenol-d6  
Concen: 104.468 ng  
RT: 6.234 min Scan# 710  
Delta R.T. 0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

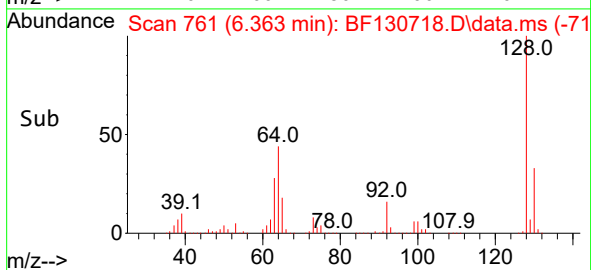
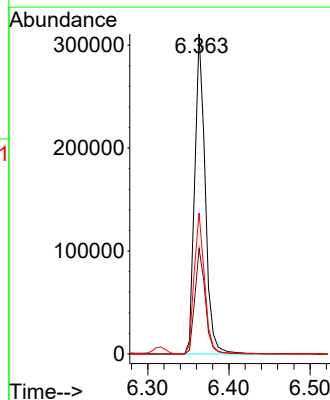
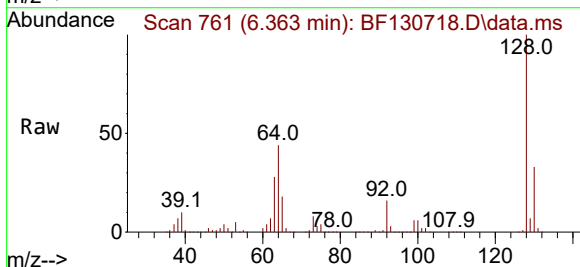
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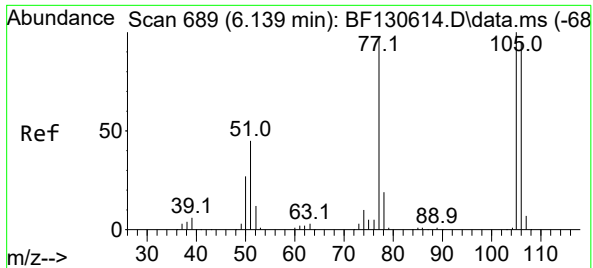
Tgt Ion: 99 Resp: 676190  
Ion Ratio Lower Upper  
99 100  
42 16.5 14.0 21.0  
71 34.2 28.8 43.2



#8  
2-Chlorophenol  
Concen: 46.437 ng  
RT: 6.363 min Scan# 761  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion: 128 Resp: 281141  
Ion Ratio Lower Upper  
128 100  
130 33.0 12.4 52.4  
64 44.0 25.9 65.9

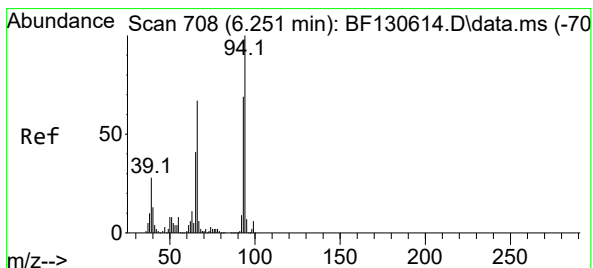
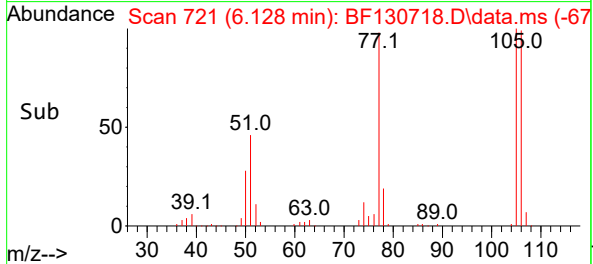
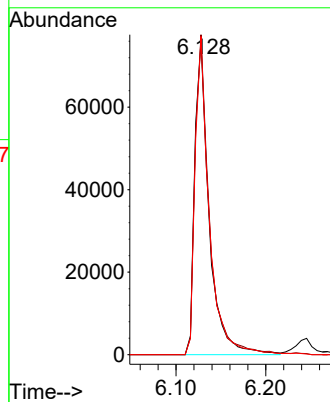
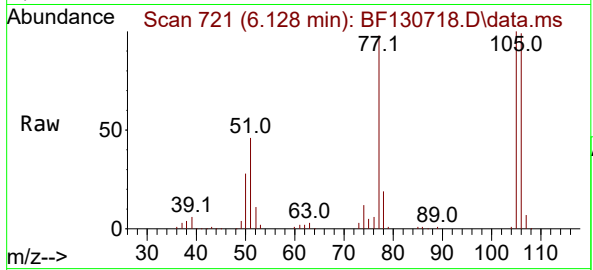




#9  
Benzaldehyde  
Concen: 20.841 ng  
RT: 6.128 min Scan# 710  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

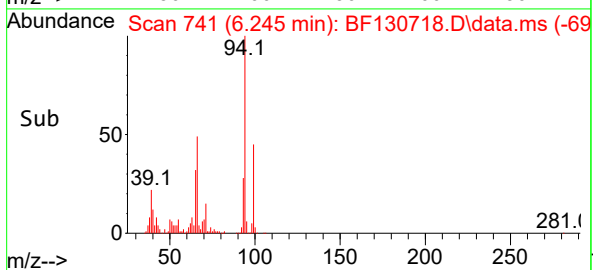
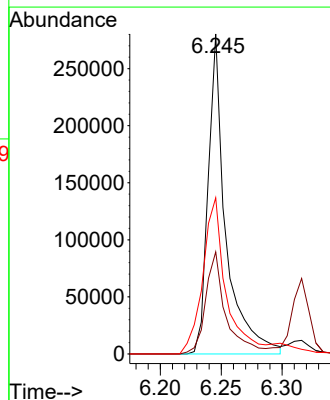
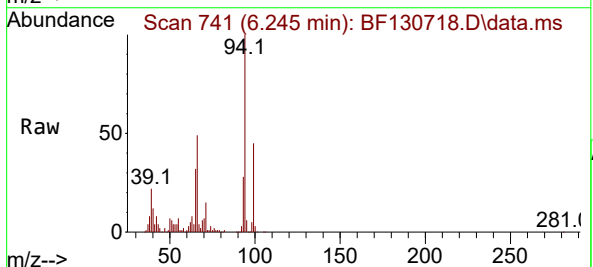
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

Tgt Ion: 77 Resp: 84751  
Ion Ratio Lower Upper  
77 100  
105 101.9 83.0 123.0  
106 101.4 77.8 117.8

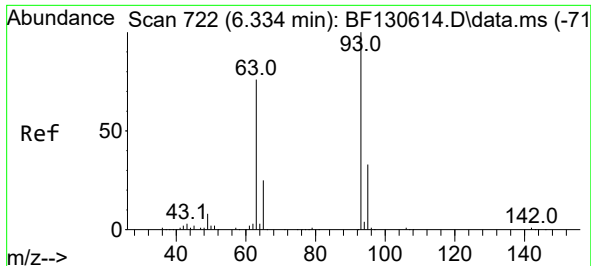


#10  
Phenol  
Concen: 37.628 ng  
RT: 6.245 min Scan# 741  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion: 94 Resp: 281804  
Ion Ratio Lower Upper  
94 100  
65 31.9 21.2 61.2  
66 48.8 46.9 86.9



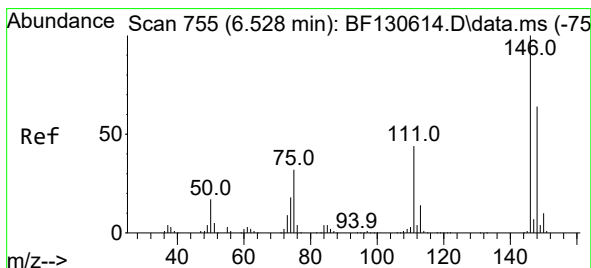
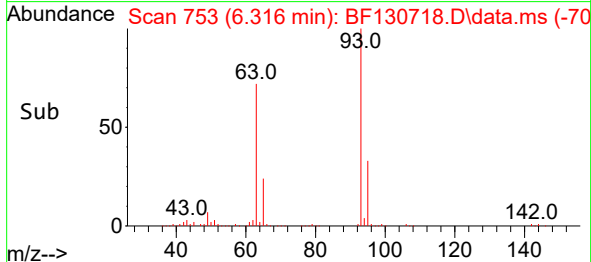
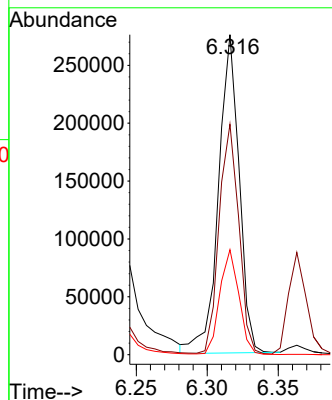
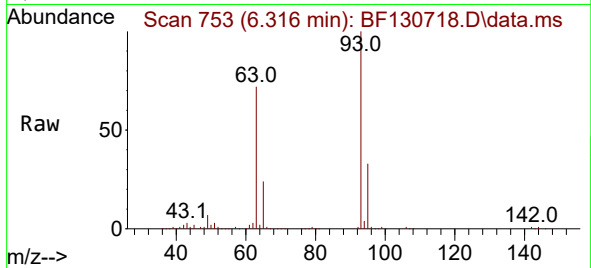




#11  
bis(2-Chloroethyl)ether  
Concen: 51.085 ng  
RT: 6.316 min Scan# 711  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

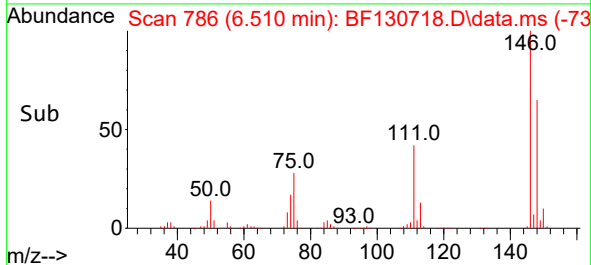
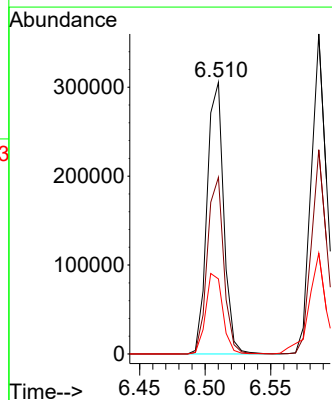
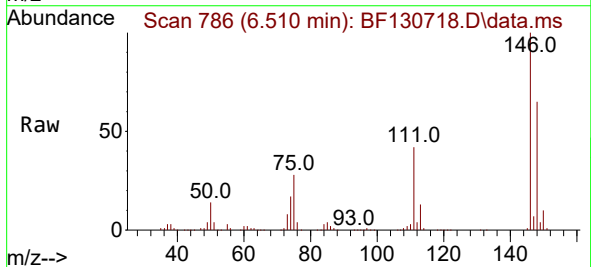
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

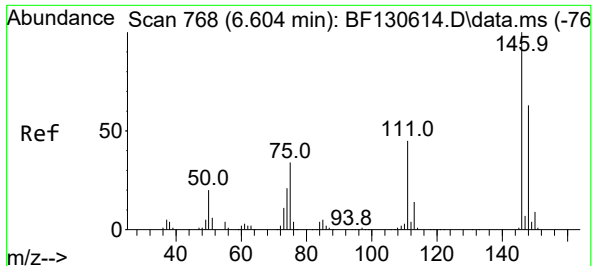
Tgt Ion: 93 Resp: 277910  
Ion Ratio Lower Upper  
93 100  
63 72.0 56.1 96.1  
95 32.8 12.4 52.4



#12  
1,3-Dichlorobenzene  
Concen: 40.939 ng  
RT: 6.510 min Scan# 786  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:146 Resp: 271382  
Ion Ratio Lower Upper  
146 100  
148 65.0 51.3 76.9  
75 27.6 25.2 37.8





#13

1,4-Dichlorobenzene

Concen: 43.809 ng

RT: 6.587 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

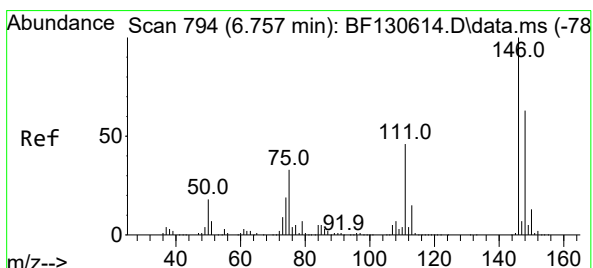
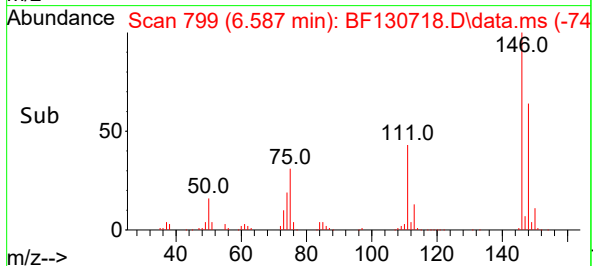
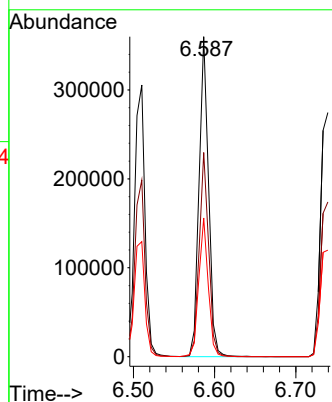
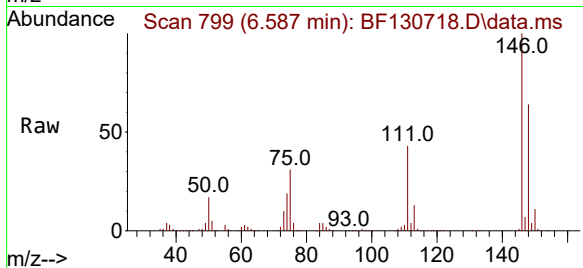
Tgt Ion:146 Resp: 294614

Ion Ratio Lower Upper

146 100

148 63.8 50.1 75.1

111 43.3 35.9 53.9



#14

1,2-Dichlorobenzene

Concen: 40.347 ng

RT: 6.740 min Scan# 825

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

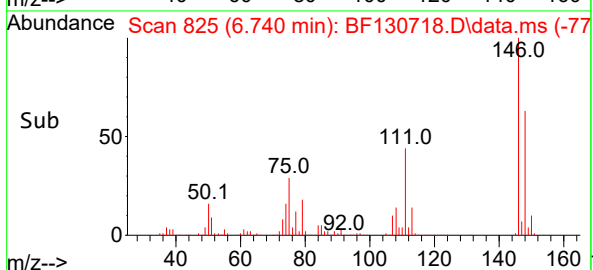
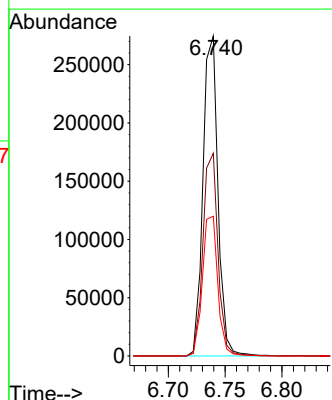
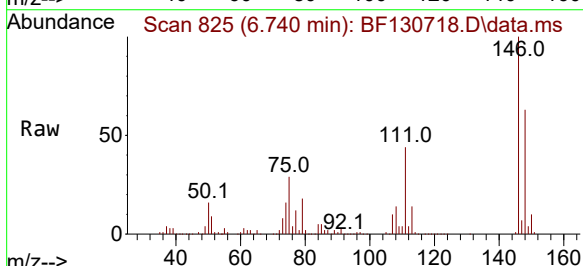
Tgt Ion:146 Resp: 252695

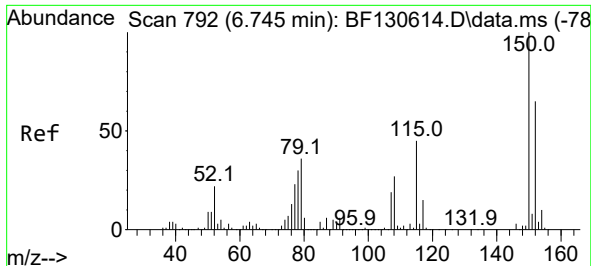
Ion Ratio Lower Upper

146 100

148 63.3 50.5 75.7

111 43.7 37.2 55.8





#15

Benzyl Alcohol

Concen: 38.841 ng

RT: 6.740 min Scan# 81

Delta R.T. 0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

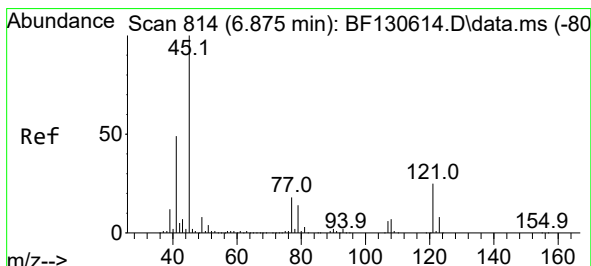
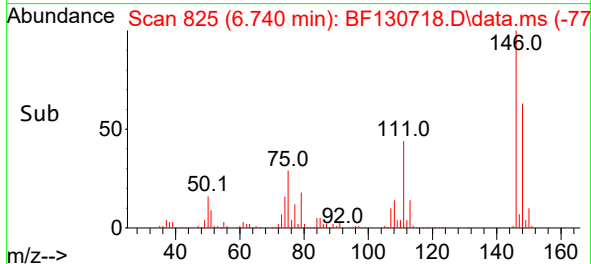
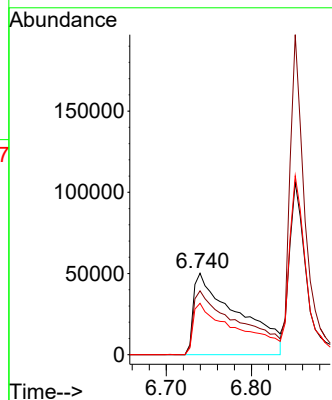
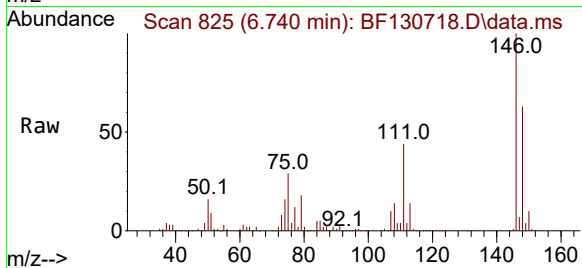
Tgt Ion: 79 Resp: 180498

Ion Ratio Lower Upper

79 100

108 78.2 59.7 89.5

77 63.1 51.8 77.6



#16

2,2'-oxybis(1-Chloropropane)

Concen: 39.636 ng

RT: 6.857 min Scan# 845

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

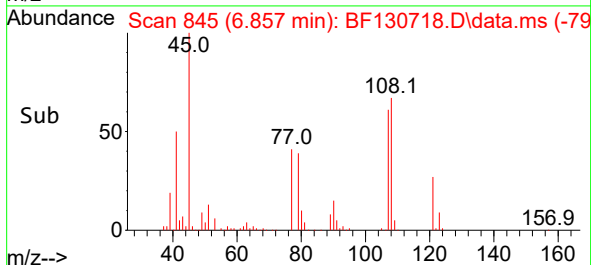
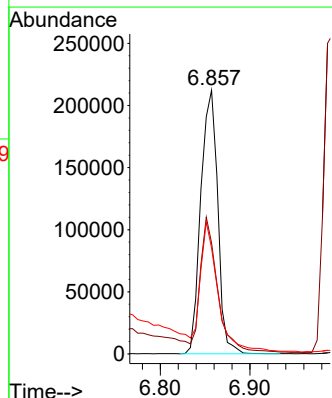
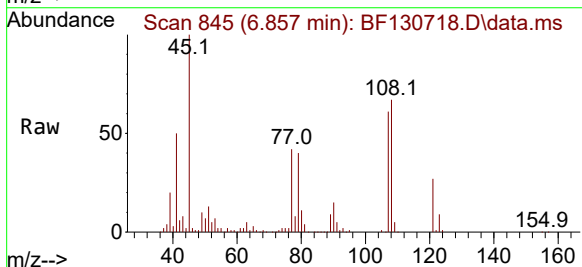
Tgt Ion: 45 Resp: 277412

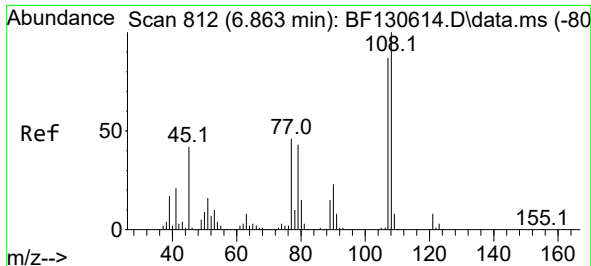
Ion Ratio Lower Upper

45 100

77 42.1 0.0 38.7#

79 40.2 0.0 34.6#

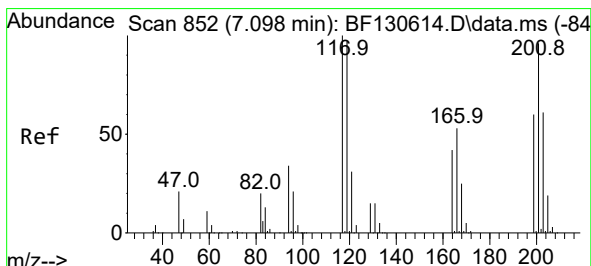
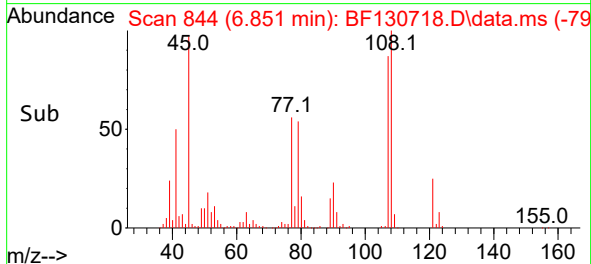
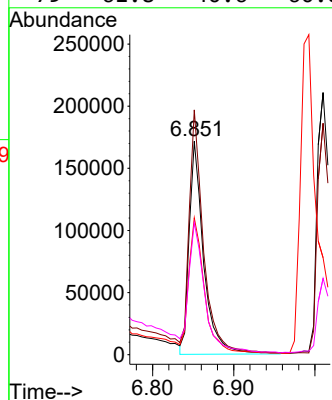
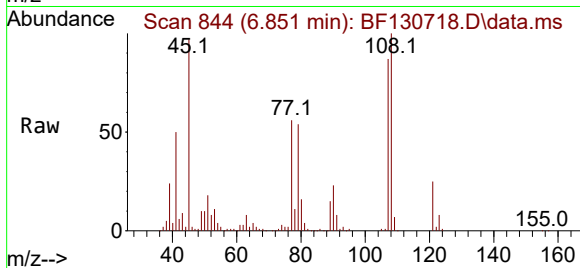




#17  
2-Methylphenol  
Concen: 44.228 ng  
RT: 6.851 min Scan# 844  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

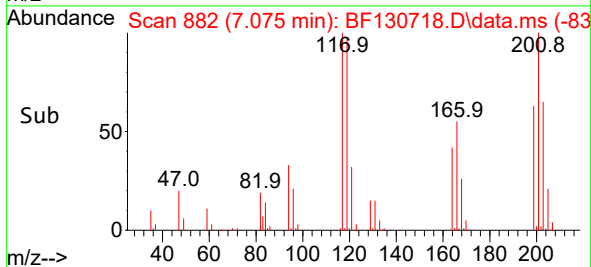
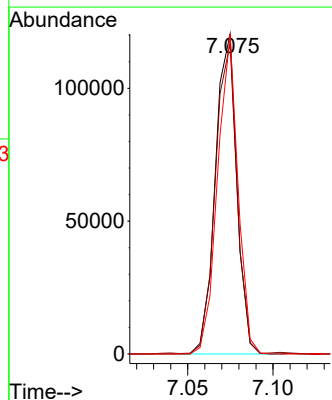
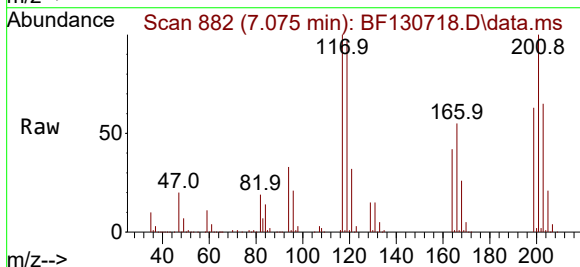
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

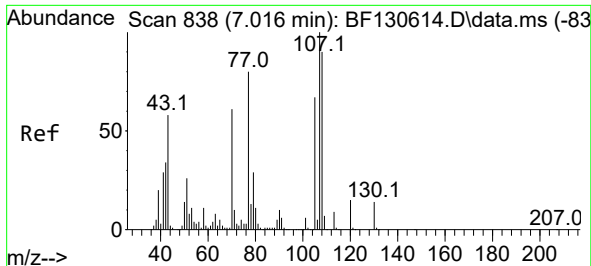
Tgt Ion:107 Resp: 212999  
Ion Ratio Lower Upper  
107 100  
108 114.7 92.2 138.2  
77 64.1 42.7 64.1#  
79 61.8 40.6 60.8#



#18  
Hexachloroethane  
Concen: 41.458 ng  
RT: 7.075 min Scan# 882  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:117 Resp: 105472  
Ion Ratio Lower Upper  
117 100  
119 97.1 77.6 116.4  
201 100.0 77.0 115.6





#19

n-Nitroso-di-n-propylamine

Concen: 43.470 ng

RT: 6.998 min Scan# 80

Delta R.T. -0.006 min

Lab File: BF130718.D

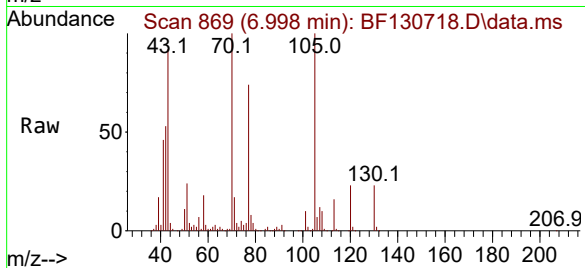
Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD



Tgt Ion: 70 Resp: 181533

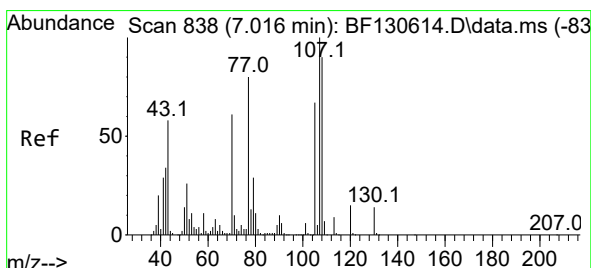
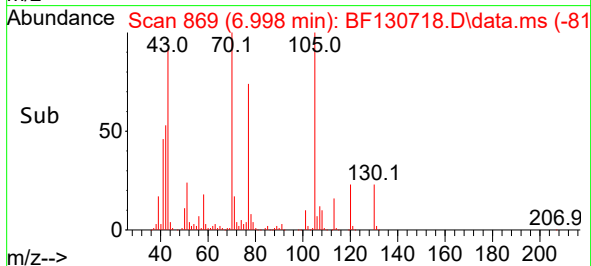
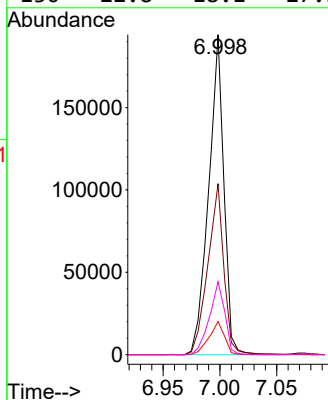
Ion Ratio Lower Upper

70 100

42 53.4 44.3 66.5

101 10.3 7.9 11.9

130 22.8 18.1 27.1



#20

3+4-Methylphenols

Concen: 44.121 ng

RT: 7.010 min Scan# 871

Delta R.T. 0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Tgt Ion: 107 Resp: 284724

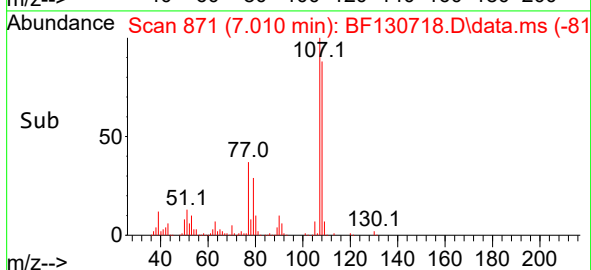
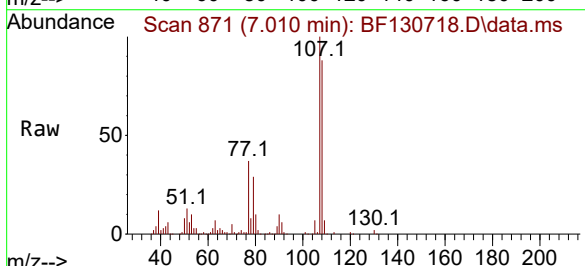
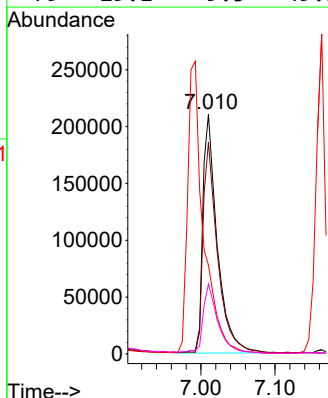
Ion Ratio Lower Upper

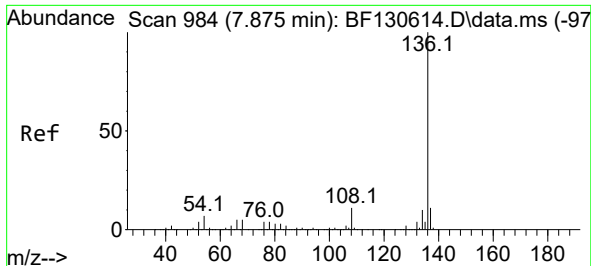
107 100

108 88.3 69.7 109.7

77 37.0 59.7 99.7#

79 29.1 9.5 49.5

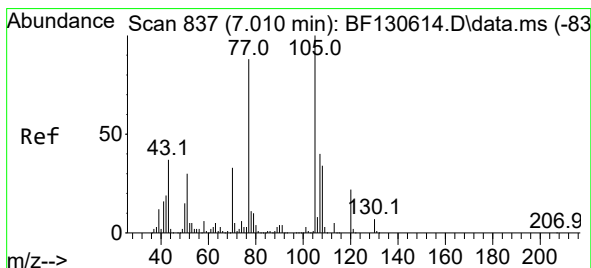
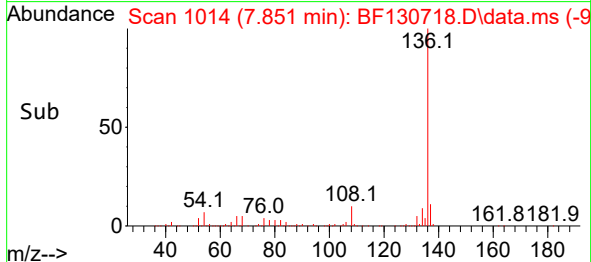
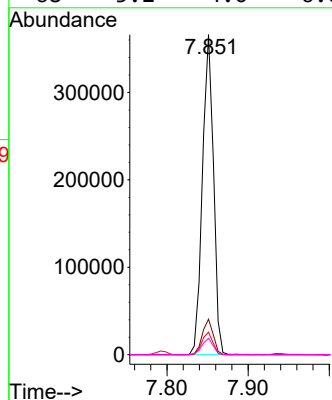
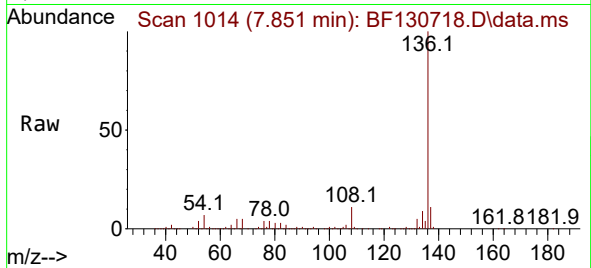




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.851 min Scan# 1014  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

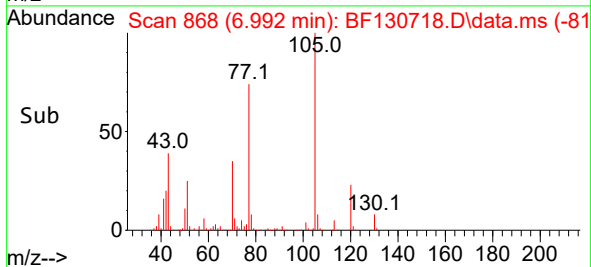
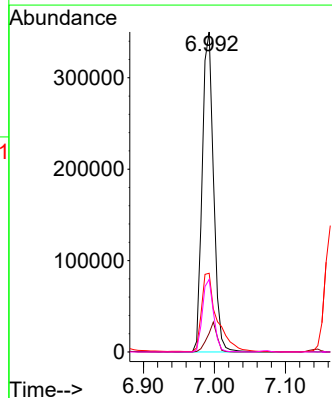
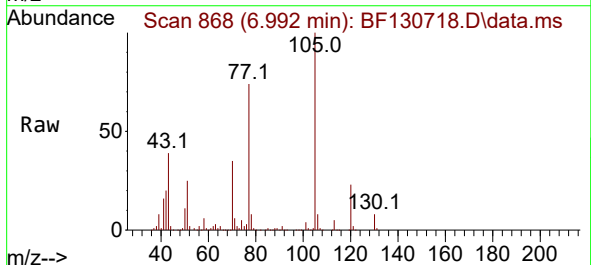
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

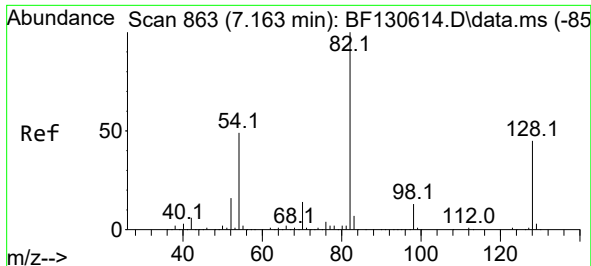
Tgt Ion:136 Resp: 346757  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.4 12.6  
54 7.1 5.5 8.3  
68 5.2 4.0 6.0



#22  
Acetophenone  
Concen: 46.763 ng  
RT: 6.992 min Scan# 868  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:105 Resp: 388983  
Ion Ratio Lower Upper  
105 100  
71 5.9 4.2 6.4  
51 24.6 24.3 36.5  
120 22.6 17.4 26.2





#23

Nitrobenzene-d5

Concen: 64.628 ng

RT: 7.145 min Scan# 894

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

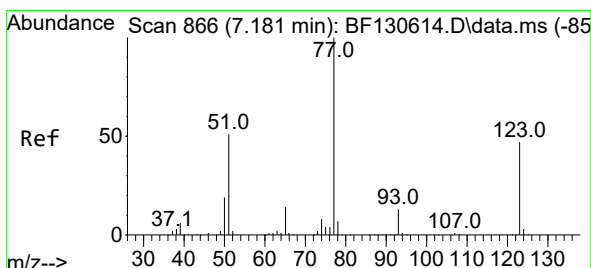
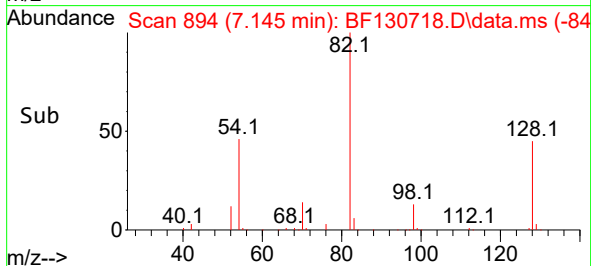
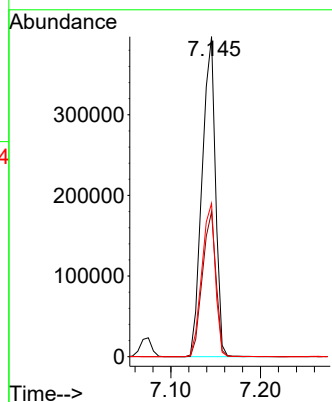
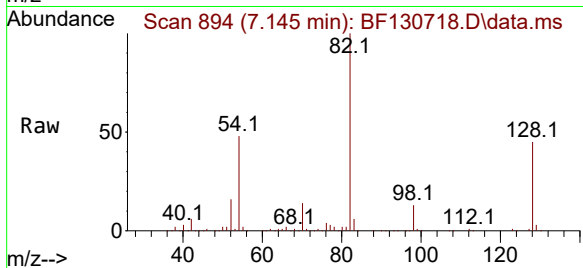
Tgt Ion: 82 Resp: 410511

Ion Ratio Lower Upper

82 100

128 45.3 35.8 53.6

54 47.9 39.3 58.9



#24

Nitrobenzene

Concen: 37.612 ng

RT: 7.163 min Scan# 897

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

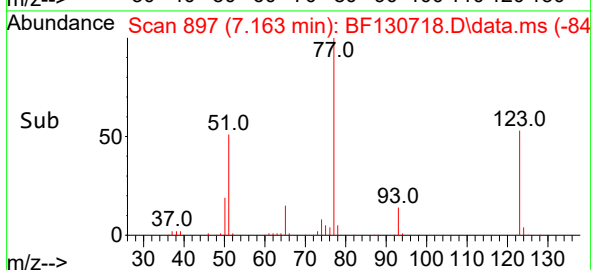
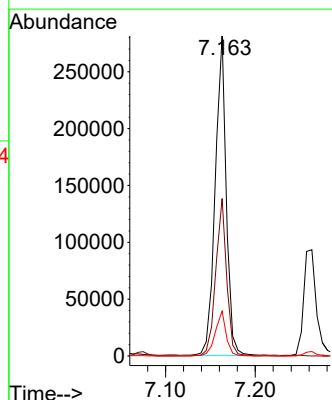
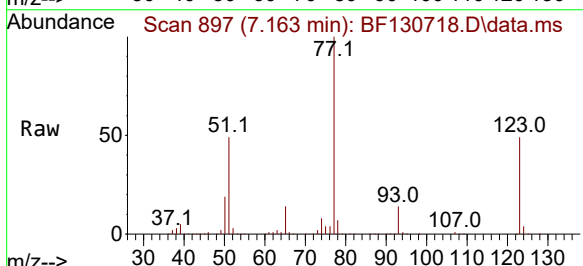
Tgt Ion: 77 Resp: 240258

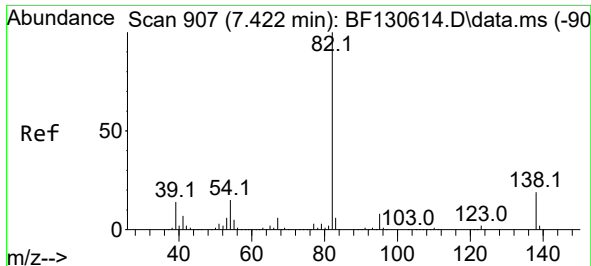
Ion Ratio Lower Upper

77 100

123 49.2 37.5 56.3

65 14.0 11.0 16.4

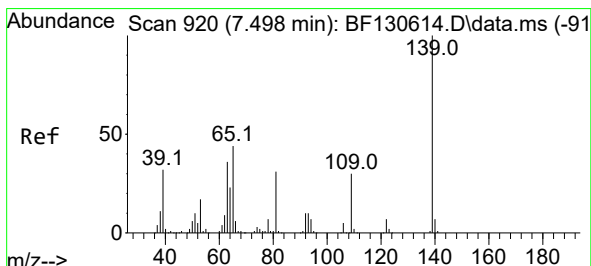
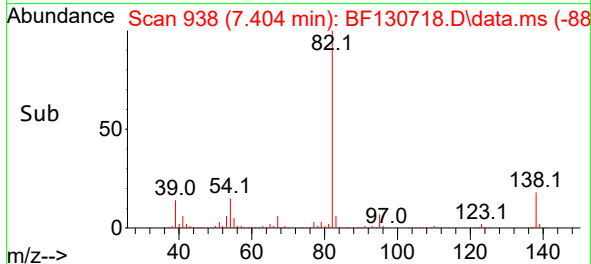
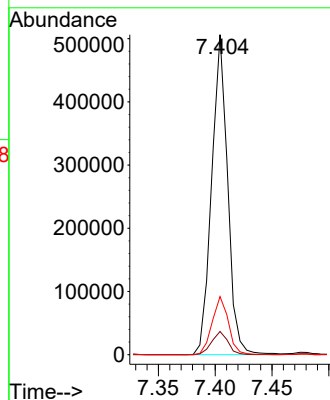
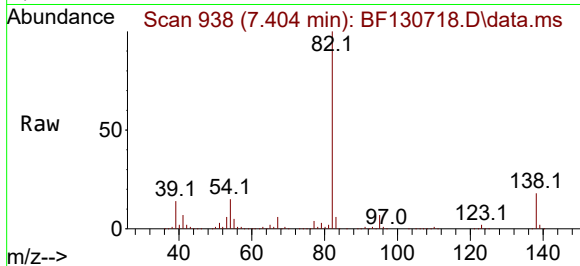




#25  
Isophorone  
Concen: 46.751 ng  
RT: 7.404 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

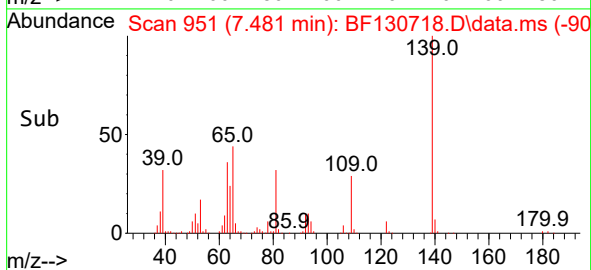
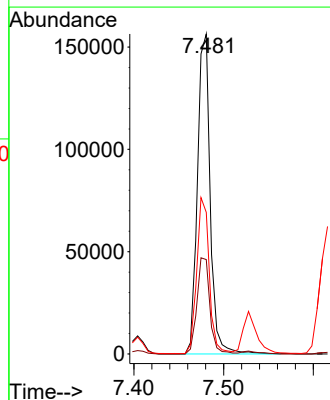
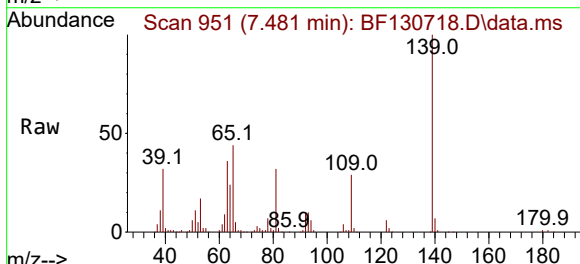
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

Tgt Ion: 82 Resp: 494240  
Ion Ratio Lower Upper  
82 100  
95 7.2 6.1 9.1  
138 18.2 14.9 22.3

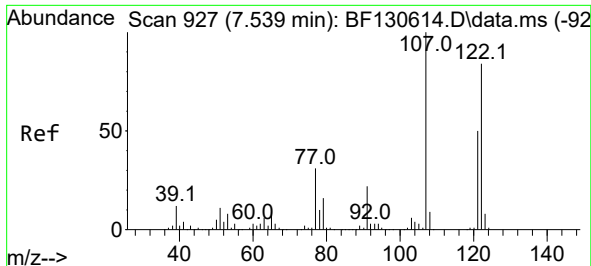


#26  
2-Nitrophenol  
Concen: 49.364 ng  
RT: 7.481 min Scan# 951  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:139 Resp: 154639  
Ion Ratio Lower Upper  
139 100  
109 29.5 23.9 35.9  
65 44.3 34.9 52.3



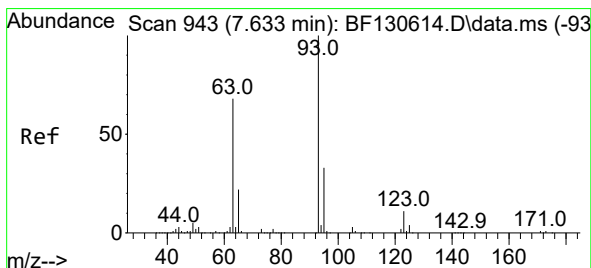
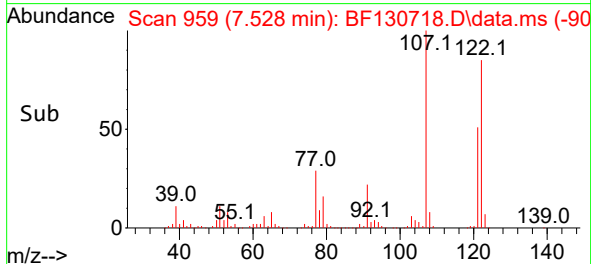
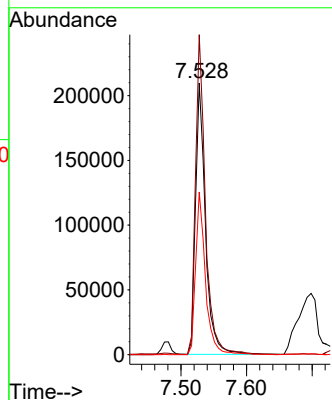
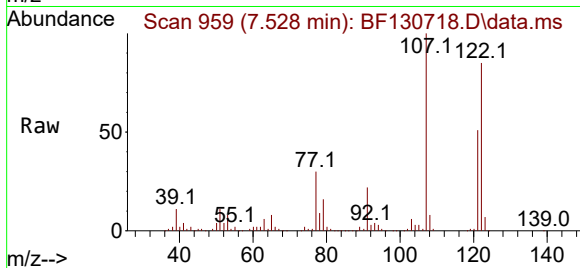




#27  
2,4-Dimethylphenol  
Concen: 50.687 ng  
RT: 7.528 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

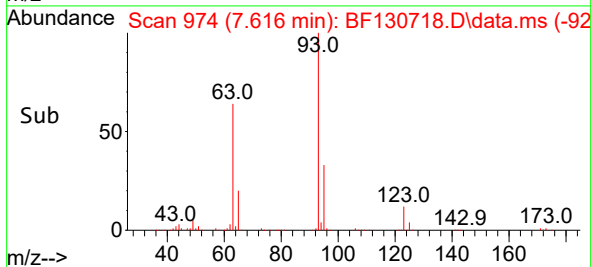
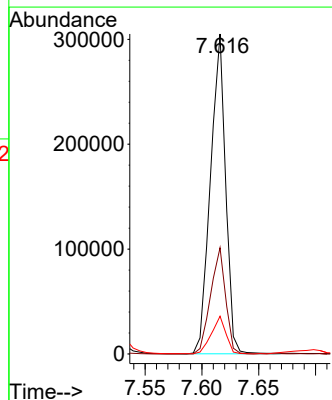
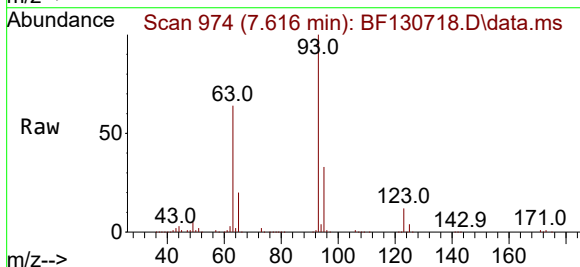
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

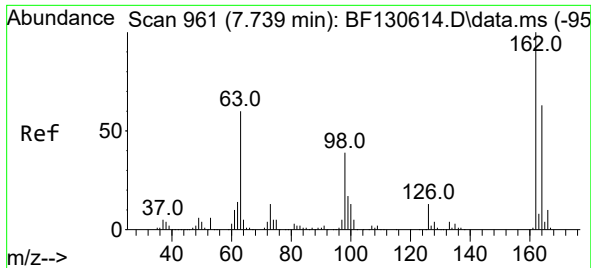
Tgt Ion:122 Resp: 221306  
Ion Ratio Lower Upper  
122 100  
107 117.8 94.9 142.3  
121 59.9 47.1 70.7



#28  
bis(2-Chloroethoxy)methane  
Concen: 46.151 ng  
RT: 7.616 min Scan# 974  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion: 93 Resp: 282509  
Ion Ratio Lower Upper  
93 100  
95 33.2 26.4 39.6  
123 11.8 9.1 13.7





#29

2,4-Dichlorophenol

Concen: 44.113 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

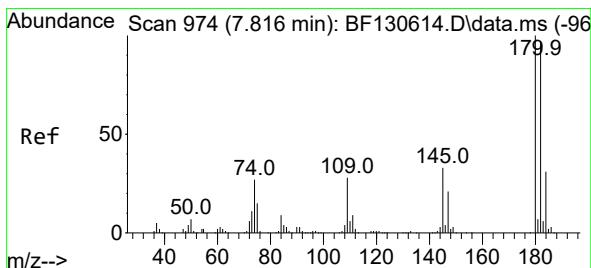
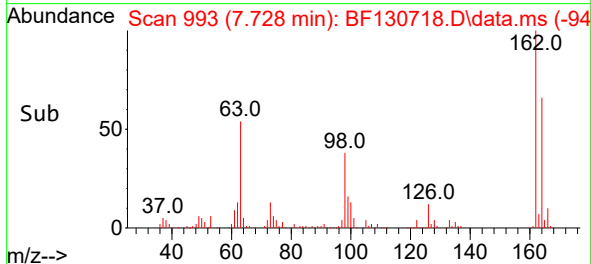
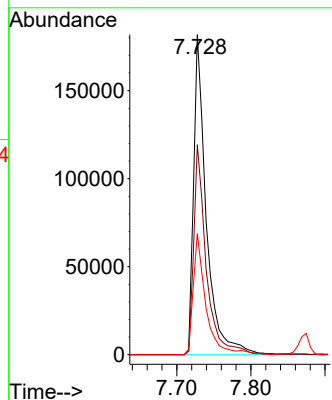
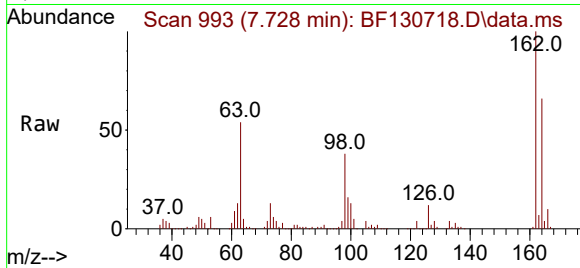
Tgt Ion:162 Resp: 215490

Ion Ratio Lower Upper

162 100

164 65.6 42.8 82.8

98 37.8 18.6 58.6



#30

1,2,4-Trichlorobenzene

Concen: 39.953 ng

RT: 7.792 min Scan# 1004

Delta R.T. -0.012 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

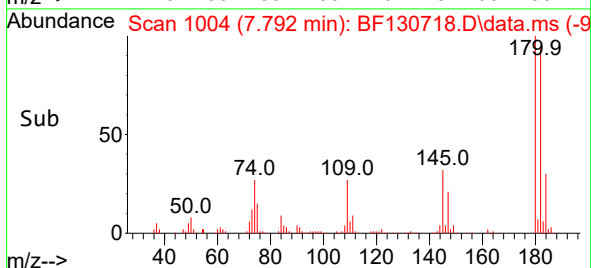
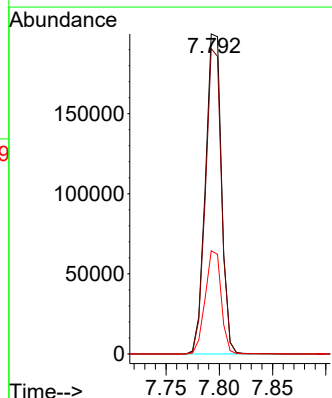
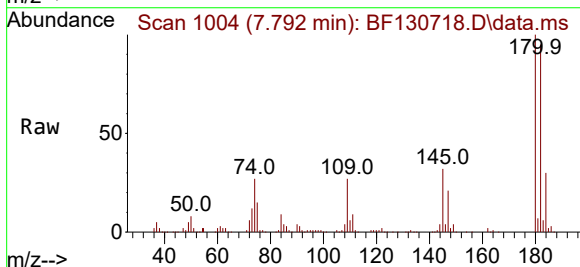
Tgt Ion:180 Resp: 210404

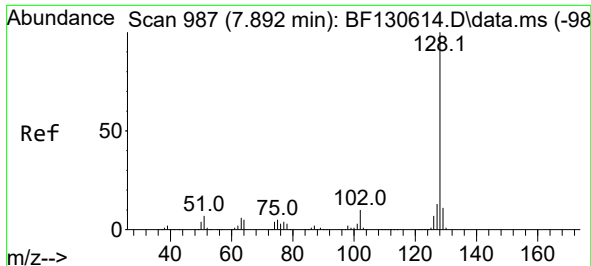
Ion Ratio Lower Upper

180 100

182 95.4 78.0 117.0

145 32.3 26.7 40.1

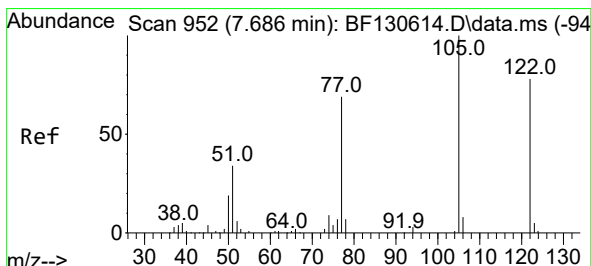
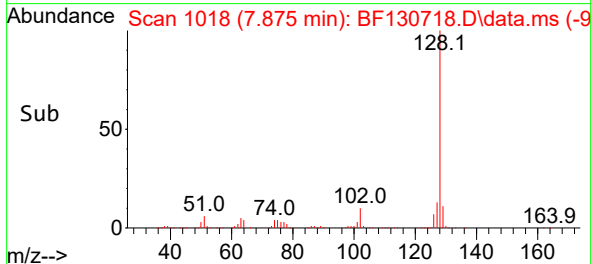
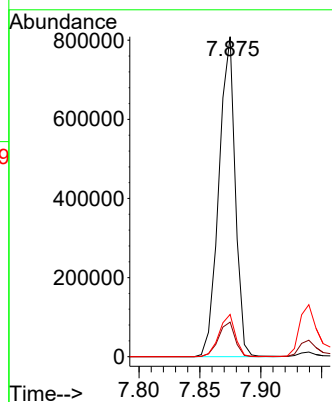
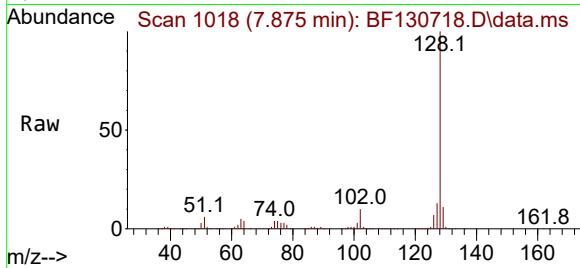




#31  
Naphthalene  
Concen: 42.225 ng  
RT: 7.875 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

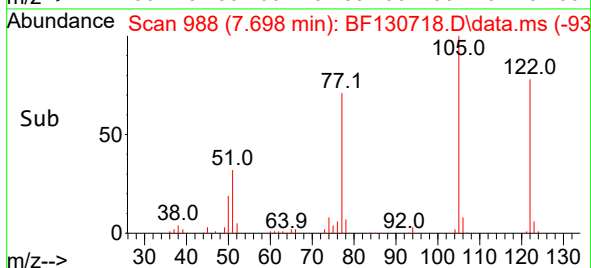
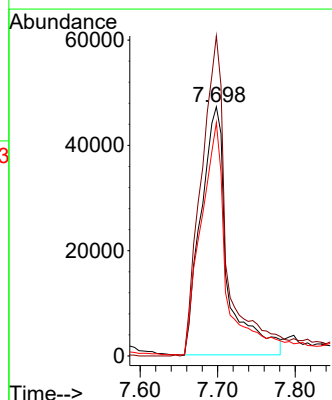
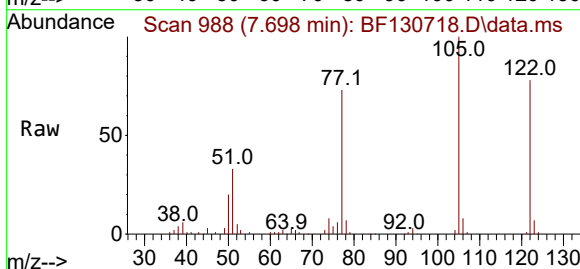
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BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

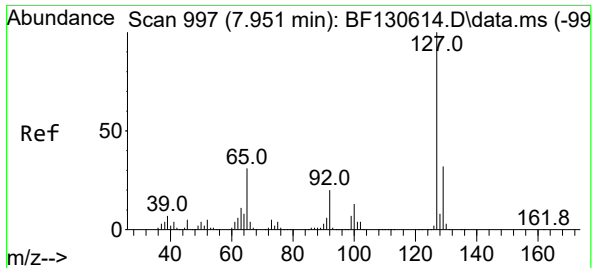
Tgt Ion:128 Resp: 757925  
Ion Ratio Lower Upper  
128 100  
129 10.8 9.0 13.4  
127 13.2 10.3 15.5



#32  
Benzoic acid  
Concen: 41.050 ng  
RT: 7.698 min Scan# 988  
Delta R.T. 0.012 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:122 Resp: 113387  
Ion Ratio Lower Upper  
122 100  
105 128.5 104.8 144.8  
77 93.7 68.2 108.2

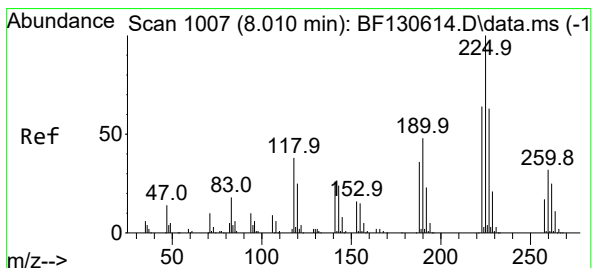
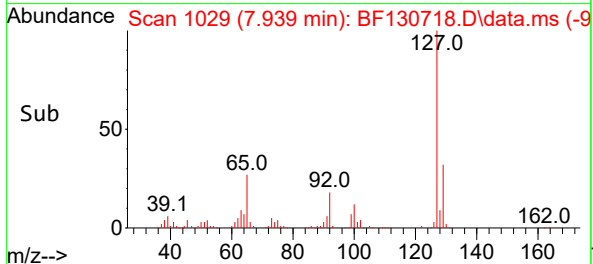
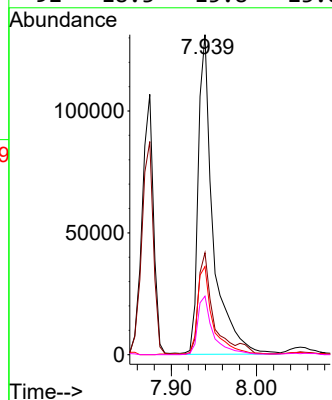
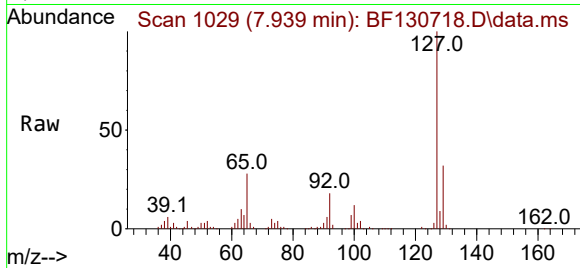




#33  
4-Chloroaniline  
Concen: 22.900 ng  
RT: 7.939 min Scan# 1029  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

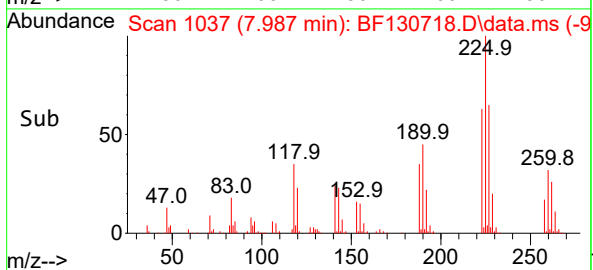
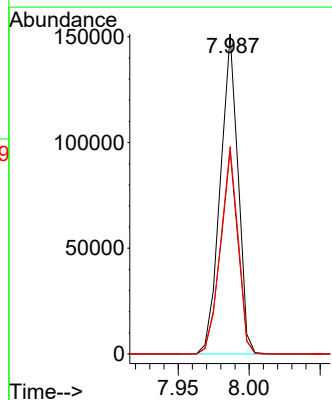
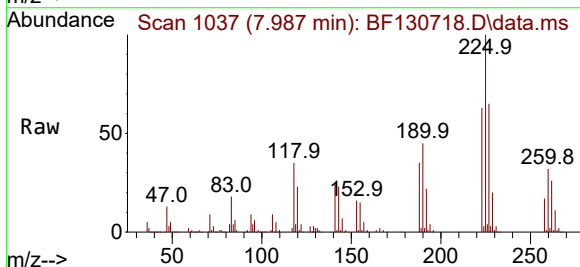
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

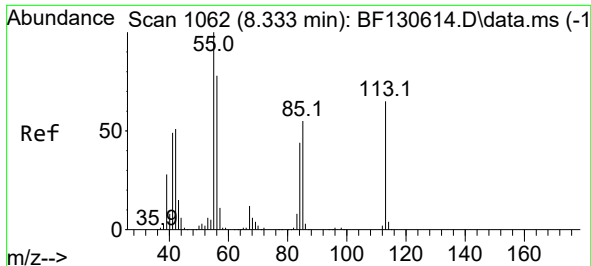
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 159227 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 31.9  | 25.7  | 38.5   |
| 65       | 27.5  | 24.7  | 37.1   |
| 92       | 18.3  | 15.8  | 23.8   |



#34  
Hexachlorobutadiene  
Concen: 40.062 ng  
RT: 7.987 min Scan# 1037  
Delta R.T. -0.012 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 225   | Resp: | 130948 |
| Ion      | Ratio | Lower | Upper  |
| 225      | 100   |       |        |
| 223      | 63.4  | 51.5  | 77.3   |
| 227      | 64.8  | 50.4  | 75.6   |

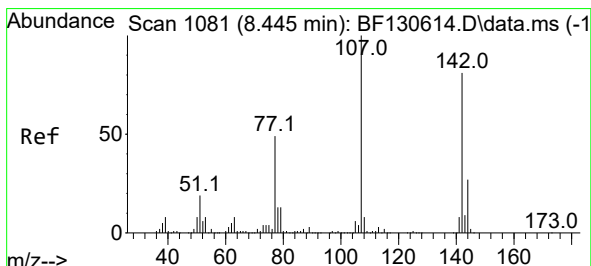
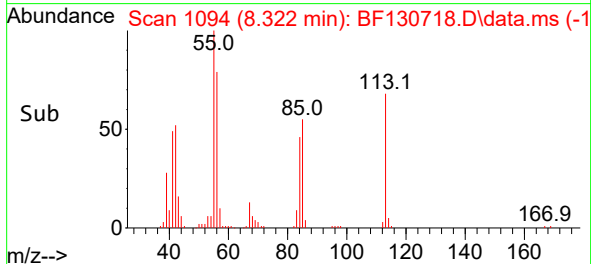
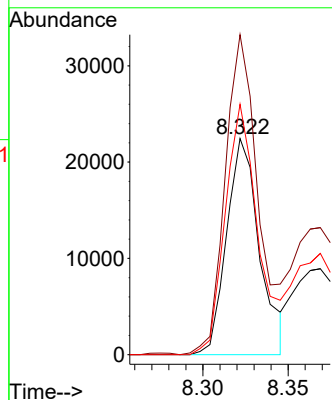
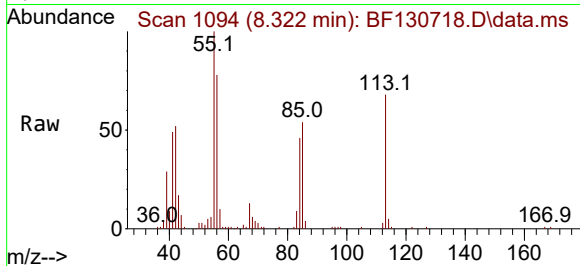




#35  
 Caprolactam  
 Concen: 20.452 ng  
 RT: 8.322 min Scan# 1109  
 Delta R.T. -0.006 min  
 Lab File: BF130718.D  
 Acq: 19 Oct 2022 19:00

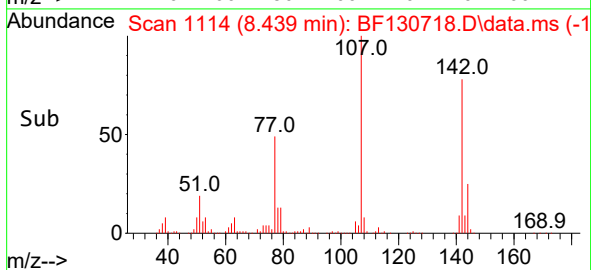
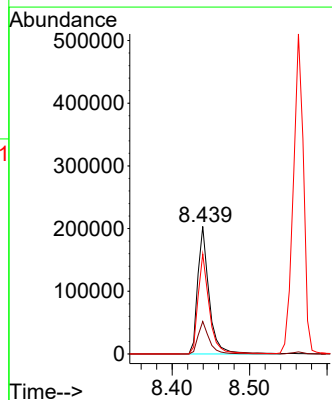
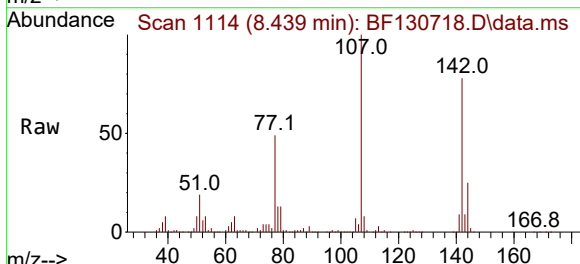
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HAS-SOIL-1013MSD

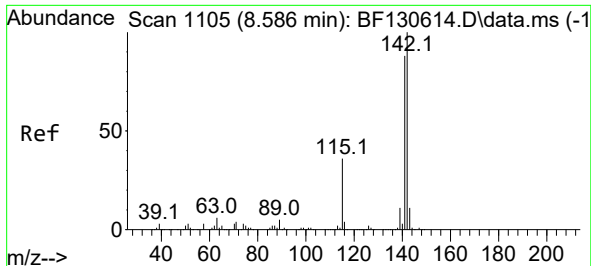
Tgt Ion:113 Resp: 30059  
 Ion Ratio Lower Upper  
 113 100  
 55 148.0 134.3 174.3  
 56 115.8 101.0 141.0



#36  
 4-Chloro-3-methylphenol  
 Concen: 39.047 ng  
 RT: 8.439 min Scan# 1114  
 Delta R.T. 0.006 min  
 Lab File: BF130718.D  
 Acq: 19 Oct 2022 19:00

Tgt Ion:107 Resp: 206898  
 Ion Ratio Lower Upper  
 107 100  
 144 25.5 21.9 32.9  
 142 78.4 64.6 96.8

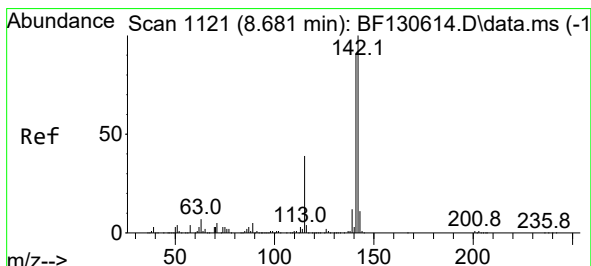
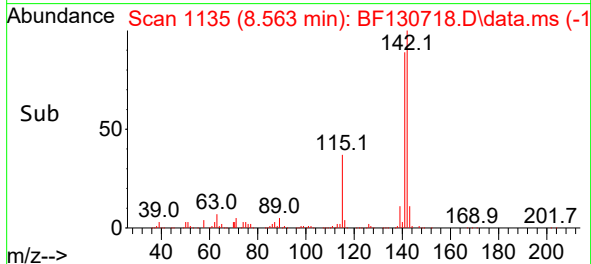
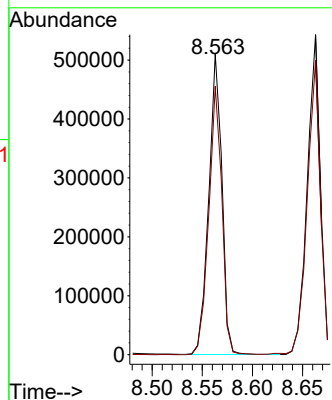
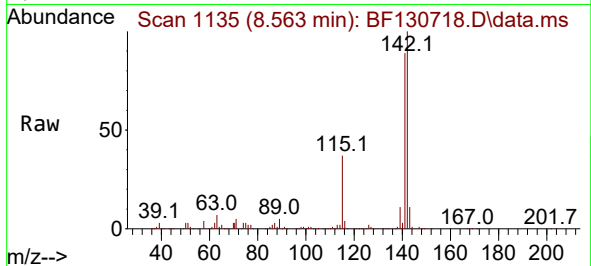




#37  
2-Methylnaphthalene  
Concen: 41.411 ng  
RT: 8.563 min Scan# 1115  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

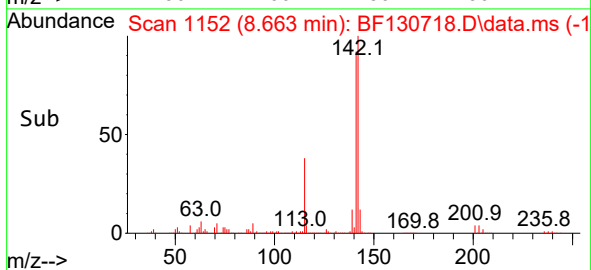
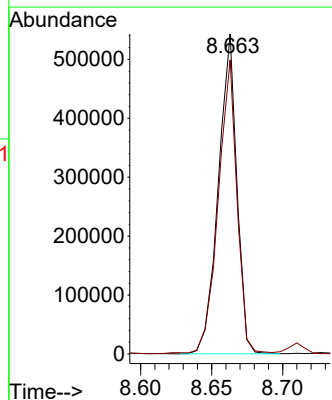
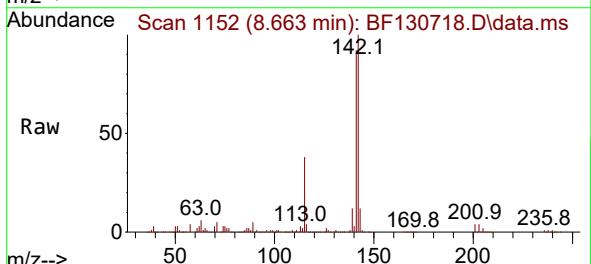
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

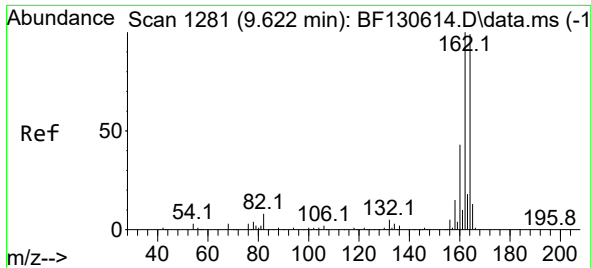
Tgt Ion:142 Resp: 467765  
Ion Ratio Lower Upper  
142 100  
141 89.2 70.7 106.1



#38  
1-Methylnaphthalene  
Concen: 44.777 ng  
RT: 8.663 min Scan# 1152  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:142 Resp: 491004  
Ion Ratio Lower Upper  
142 100  
141 91.9 72.6 108.8

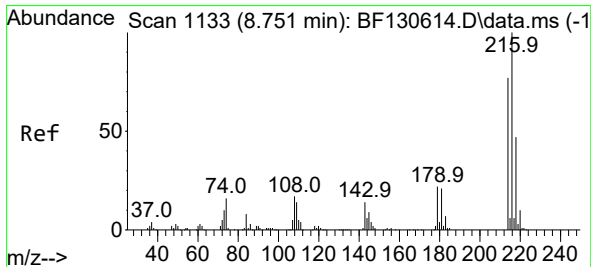
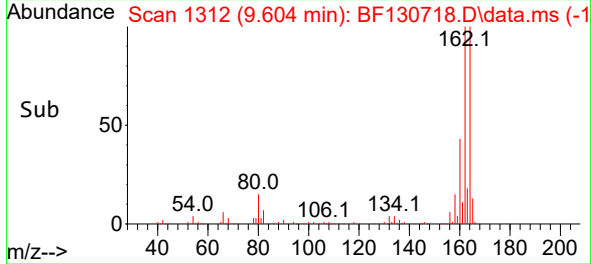
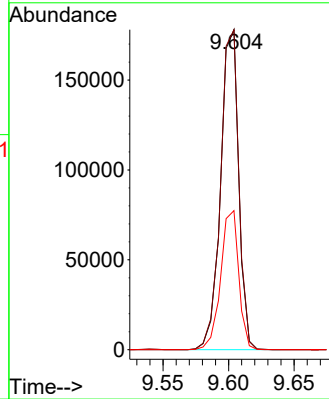
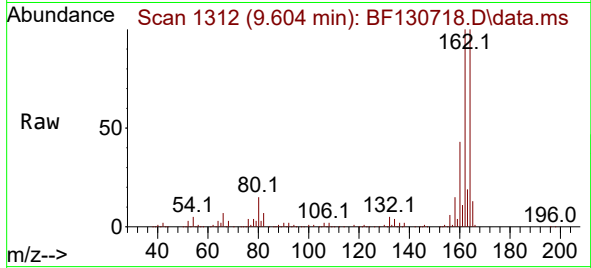




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.604 min Scan# 1163  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

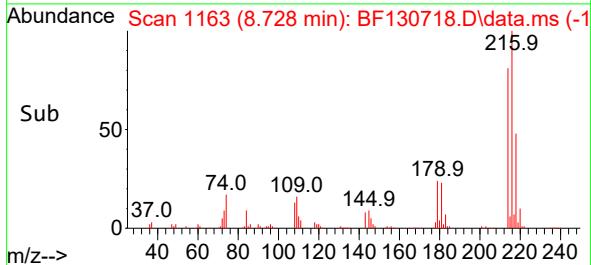
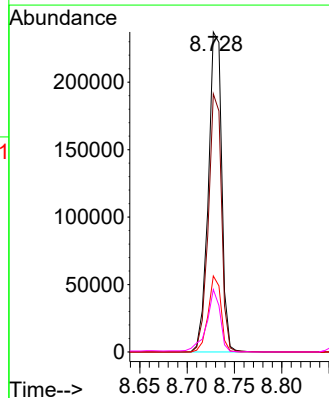
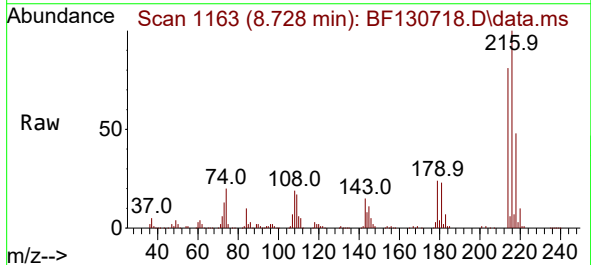
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

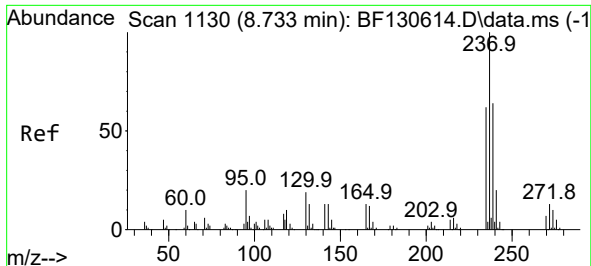
Tgt Ion:164 Resp: 169943  
Ion Ratio Lower Upper  
164 100  
162 100.0 81.0 121.4  
160 43.5 34.5 51.7



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 50.425 ng  
RT: 8.728 min Scan# 1163  
Delta R.T. -0.012 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:216 Resp: 232498  
Ion Ratio Lower Upper  
216 100  
214 79.4 62.1 93.1  
179 22.7 18.6 27.8  
108 19.8 15.9 23.9

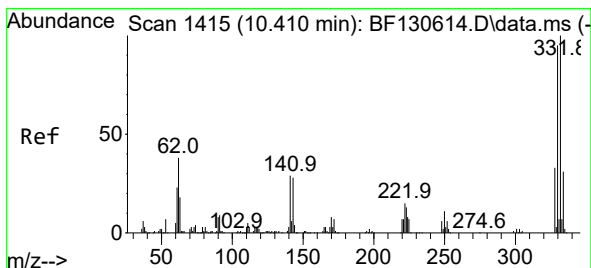
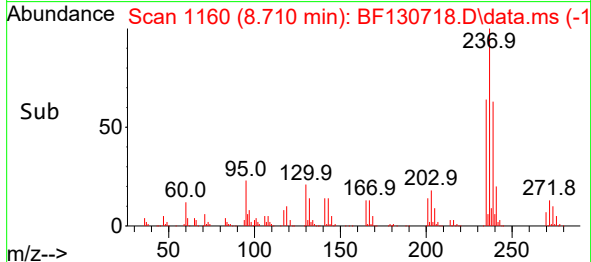
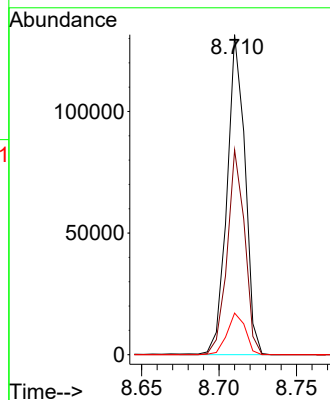
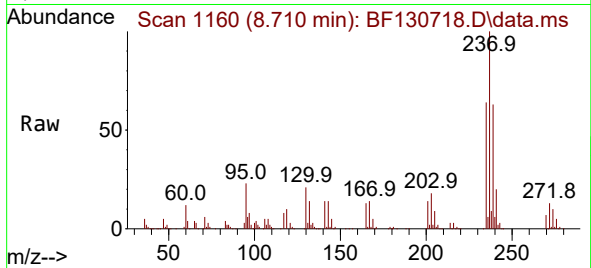




#41  
Hexachlorocyclopentadiene  
Concen: 62.765 ng  
RT: 8.710 min Scan# 1160  
Delta R.T. -0.012 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

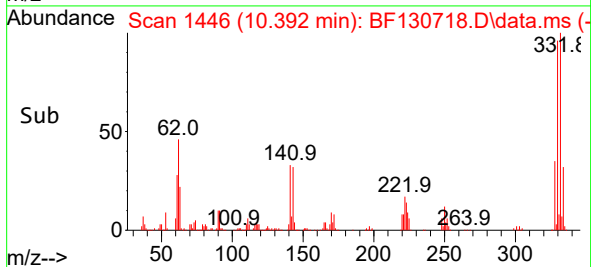
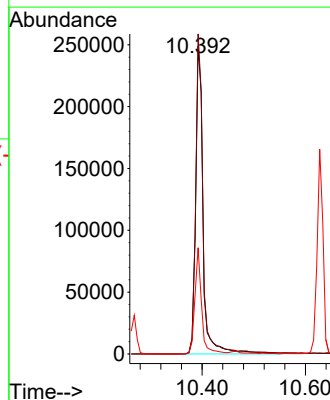
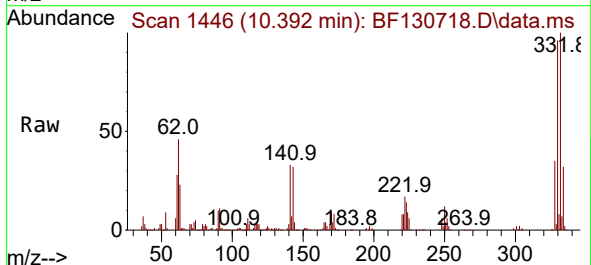
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

Tgt Ion:237 Resp: 106287  
Ion Ratio Lower Upper  
237 100  
235 64.0 42.2 82.2  
272 13.0 0.0 32.6

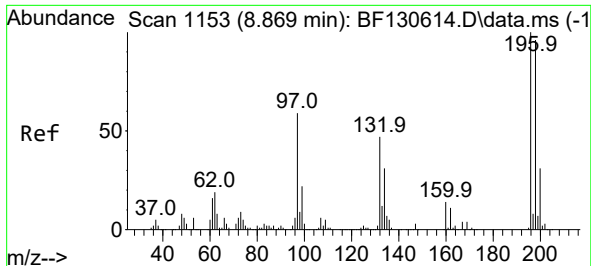


#42  
2,4,6-Tribromophenol  
Concen: 149.804 ng  
RT: 10.392 min Scan# 1446  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:330 Resp: 249106  
Ion Ratio Lower Upper  
330 100  
332 103.0 84.2 126.4  
141 30.9 26.8 40.2







#43

2,4,6-Trichlorophenol

Concen: 47.587 ng

RT: 8.857 min Scan# 1119

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

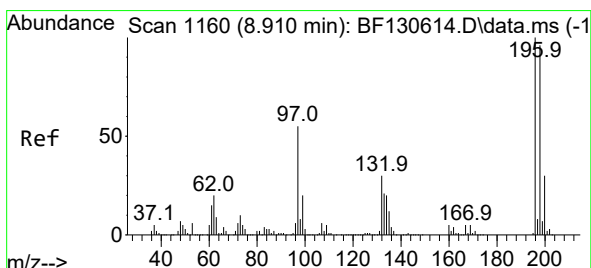
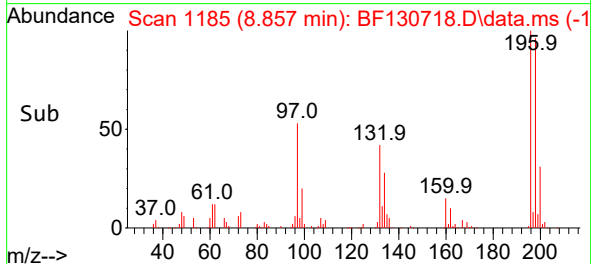
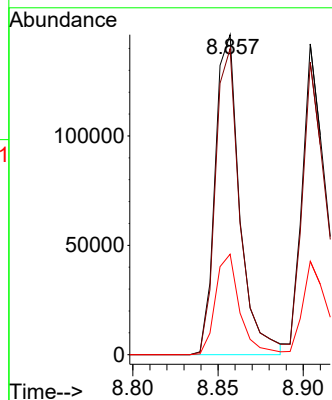
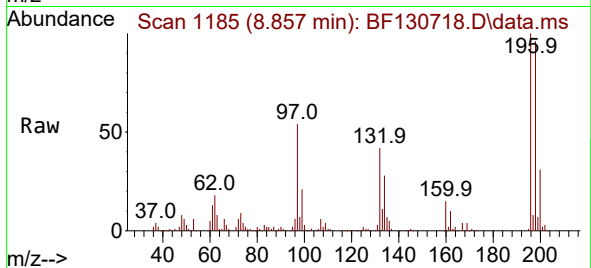
Tgt Ion:196 Resp: 147323

Ion Ratio Lower Upper

196 100

198 95.7 76.6 115.0

200 31.4 25.0 37.6



#44

2,4,5-Trichlorophenol

Concen: 48.685 ng

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Tgt Ion:196 Resp: 165753

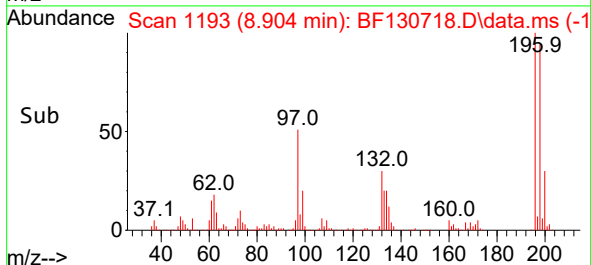
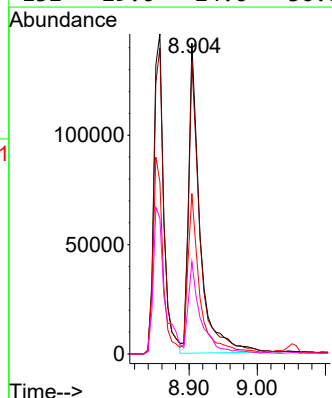
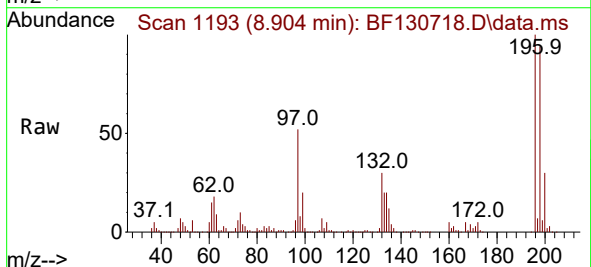
Ion Ratio Lower Upper

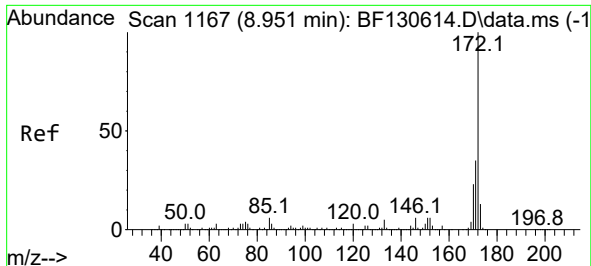
196 100

198 94.1 76.6 114.8

97 51.7 44.3 66.5

132 29.6 24.6 36.8

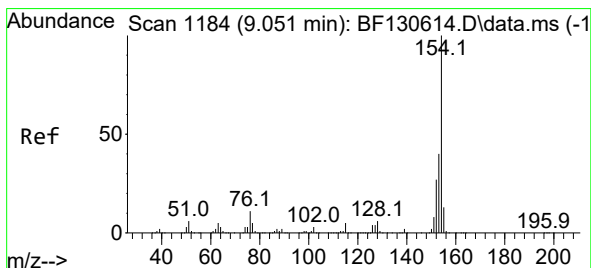
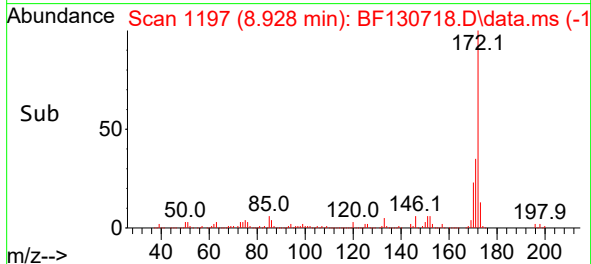
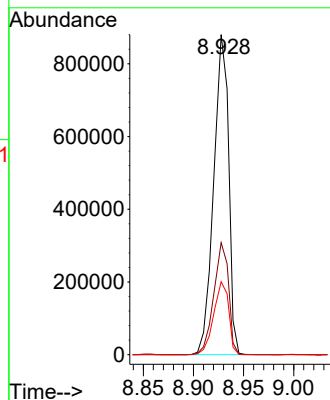
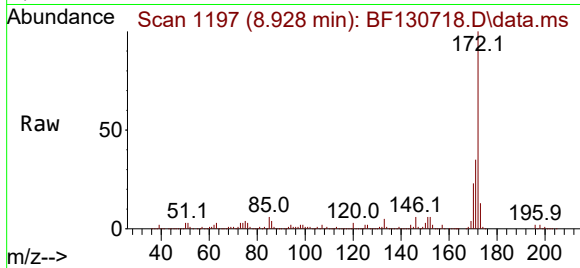




#45  
2-Fluorobiphenyl  
Concen: 81.020 ng  
RT: 8.928 min Scan# 1167  
Delta R.T. -0.012 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

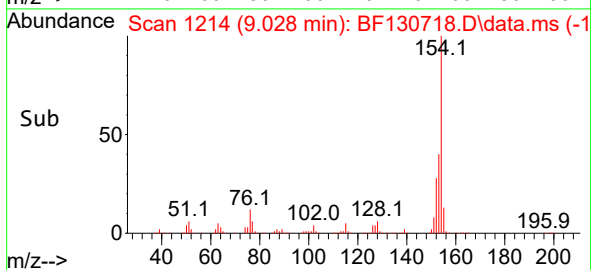
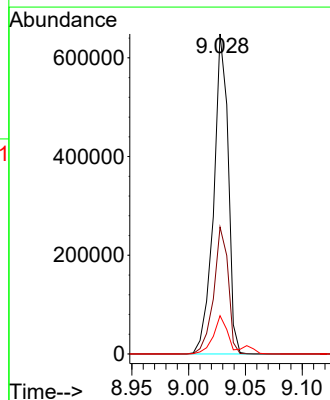
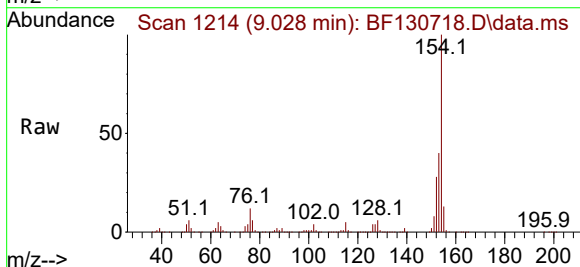
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

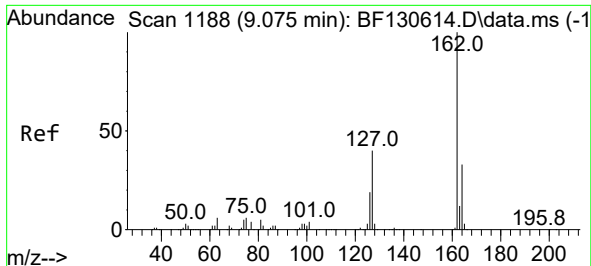
Tgt Ion:172 Resp: 908984  
Ion Ratio Lower Upper  
172 100  
171 35.0 27.8 41.8  
170 22.8 18.6 27.8



#46  
1,1'-Biphenyl  
Concen: 46.781 ng  
RT: 9.028 min Scan# 1214  
Delta R.T. -0.012 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:154 Resp: 576150  
Ion Ratio Lower Upper  
154 100  
153 39.7 20.0 60.0  
76 12.0 0.0 30.8





#47

2-Chloronaphthalene

Concen: 46.791 ng

RT: 9.051 min Scan# 1188

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

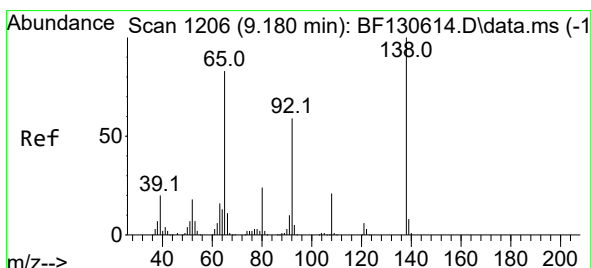
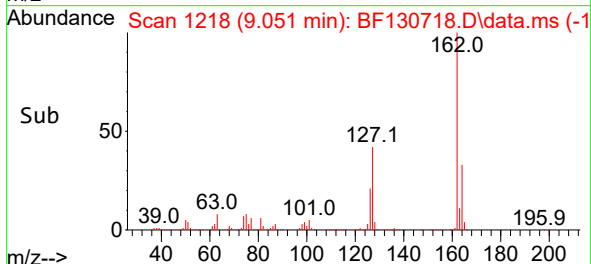
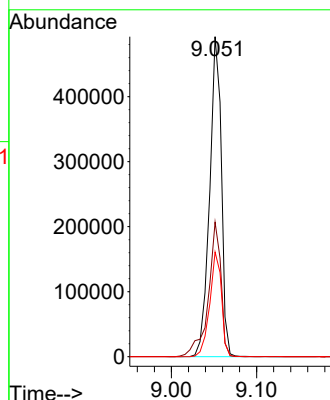
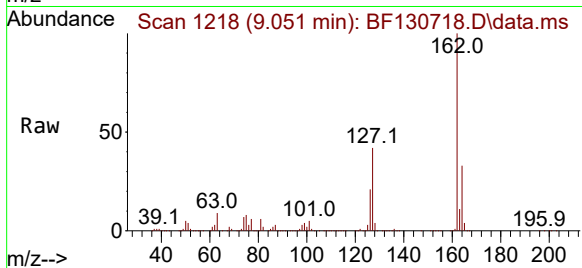
Tgt Ion:162 Resp: 470991

Ion Ratio Lower Upper

162 100

127 42.1 32.6 49.0

164 32.7 26.3 39.5



#48

2-Nitroaniline

Concen: 53.430 ng

RT: 9.163 min Scan# 1237

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

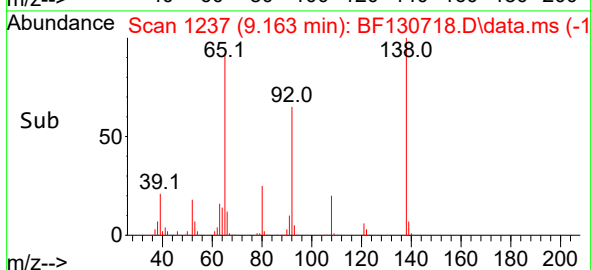
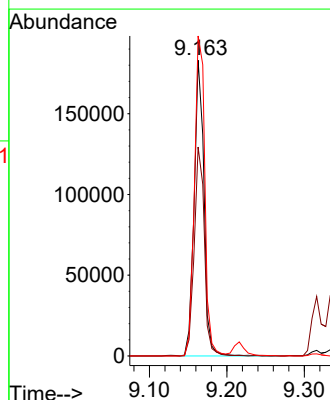
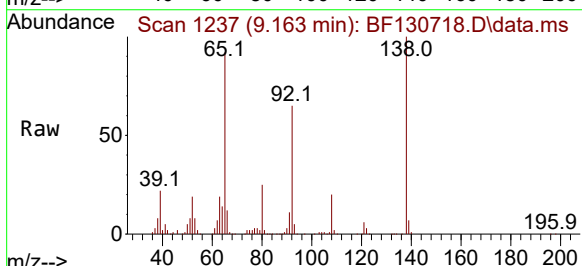
Tgt Ion: 65 Resp: 161897

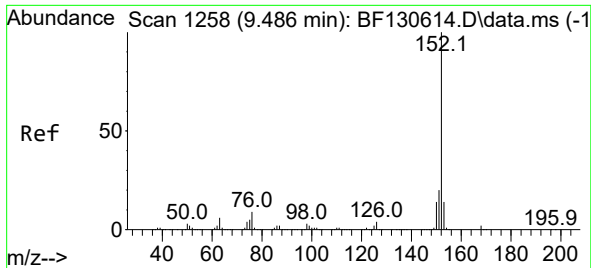
Ion Ratio Lower Upper

65 100

92 70.7 57.4 86.0

138 108.3 96.7 145.1

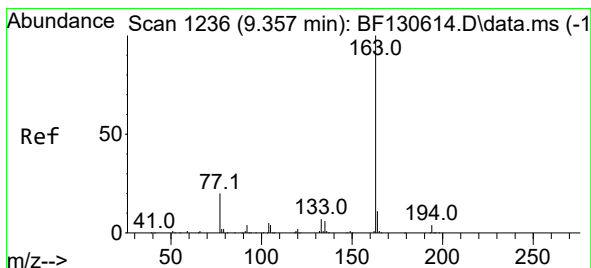
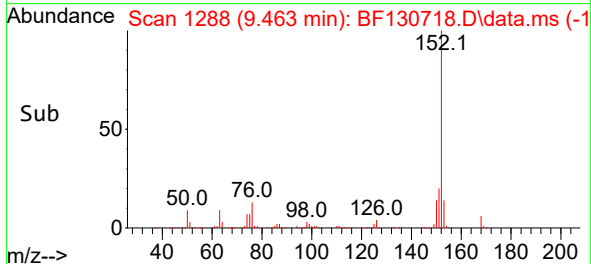
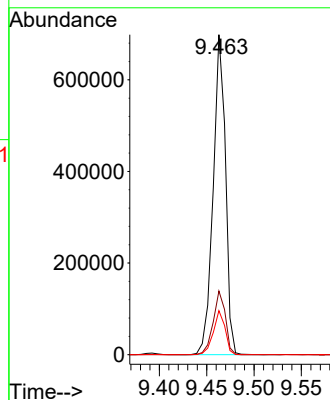
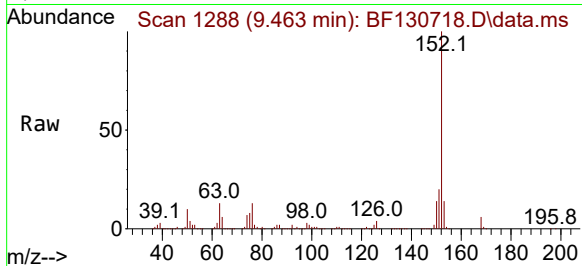




#49  
Acenaphthylene  
Concen: 41.932 ng  
RT: 9.463 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

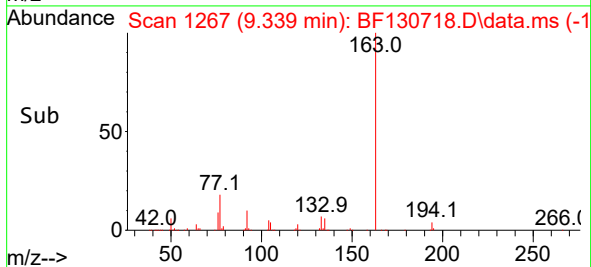
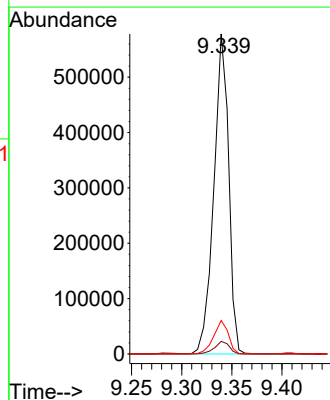
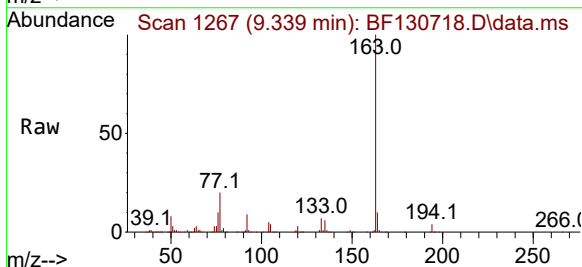
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

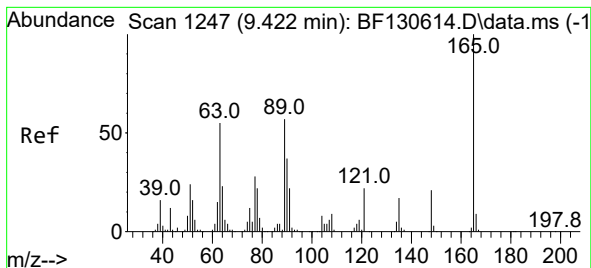
Tgt Ion:152 Resp: 632417  
Ion Ratio Lower Upper  
152 100  
151 19.9 16.2 24.2  
153 13.8 10.8 16.2



#50  
Dimethylphthalate  
Concen: 50.465 ng  
RT: 9.339 min Scan# 1267  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:163 Resp: 593670  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.0 4.6  
164 10.5 8.5 12.7

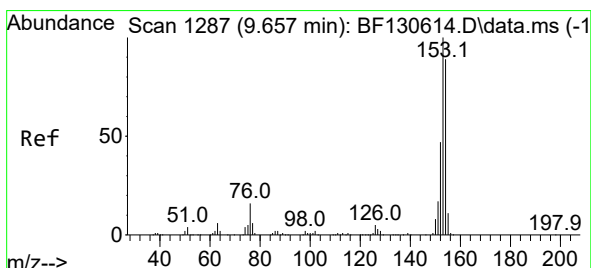
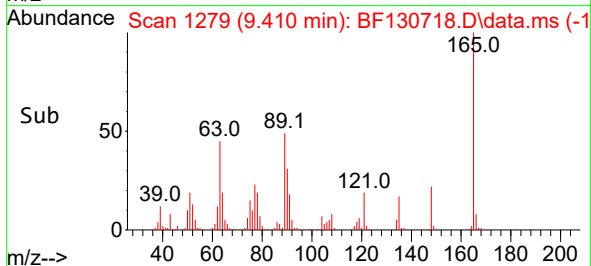
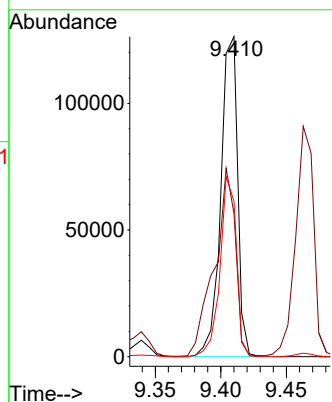
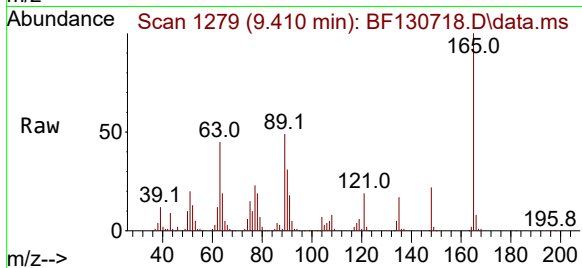




#51  
2,6-Dinitrotoluene  
Concen: 43.702 ng  
RT: 9.410 min Scan# 1317  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

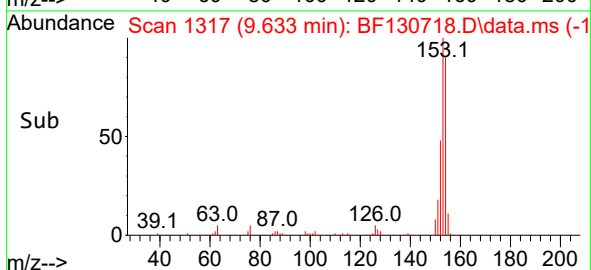
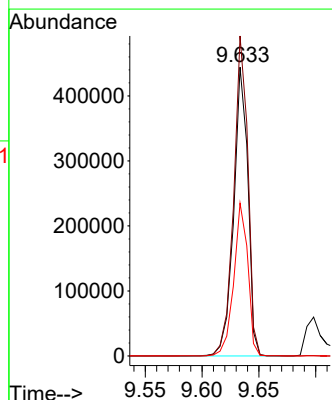
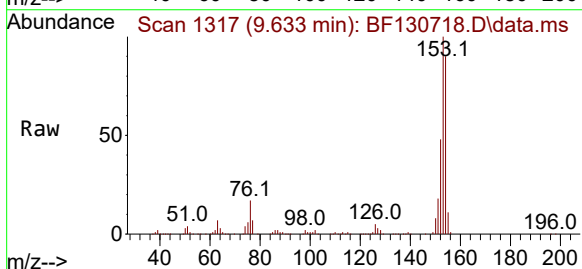
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

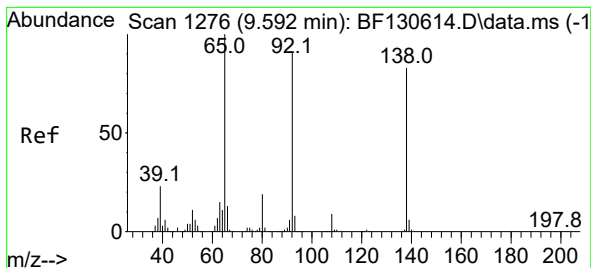
Tgt Ion:165 Resp: 112772  
Ion Ratio Lower Upper  
165 100  
63 44.8 45.3 67.9#  
89 48.6 45.6 68.4



#52  
Acenaphthene  
Concen: 42.174 ng  
RT: 9.633 min Scan# 1317  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:154 Resp: 385378  
Ion Ratio Lower Upper  
154 100  
153 110.8 89.6 134.4  
152 52.9 42.4 63.6





#53

3-Nitroaniline

Concen: 30.251 ng

RT: 9.581 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

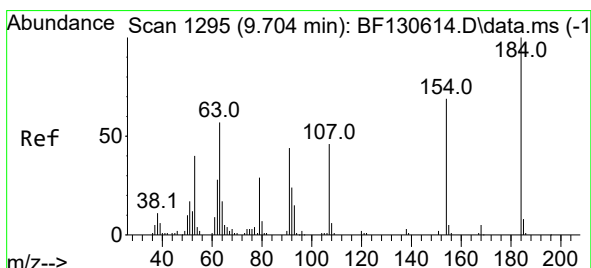
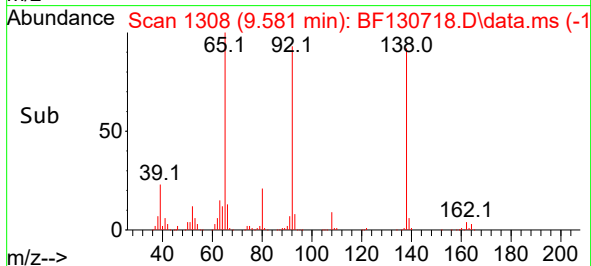
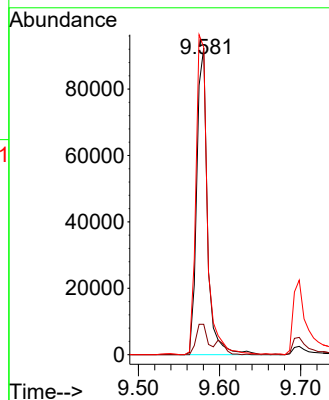
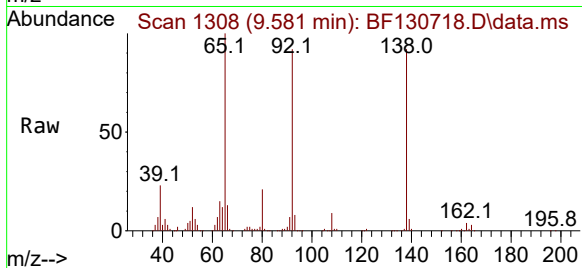
Tgt Ion:138 Resp: 85570

Ion Ratio Lower Upper

138 100

108 9.9 8.4 12.6

92 100.3 88.2 132.4



#54

2,4-Dinitrophenol

Concen: 81.909 ng

RT: 9.698 min Scan# 1328

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

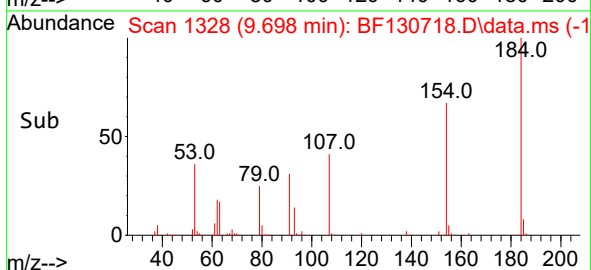
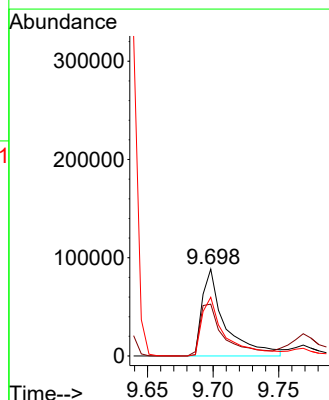
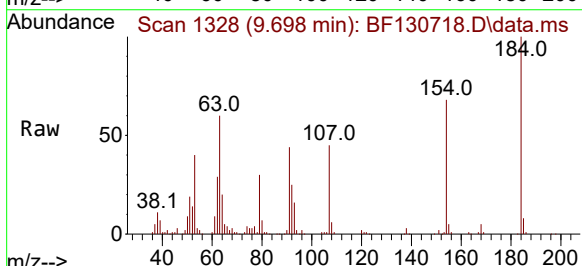
Tgt Ion:184 Resp: 107872

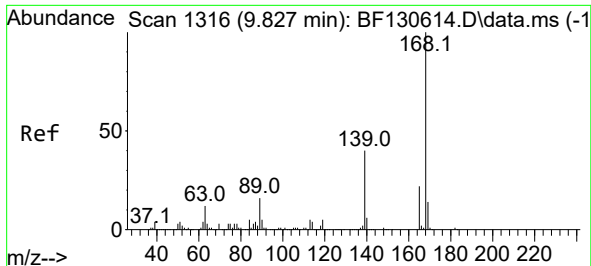
Ion Ratio Lower Upper

184 100

63 59.7 45.5 68.3

154 67.7 55.1 82.7

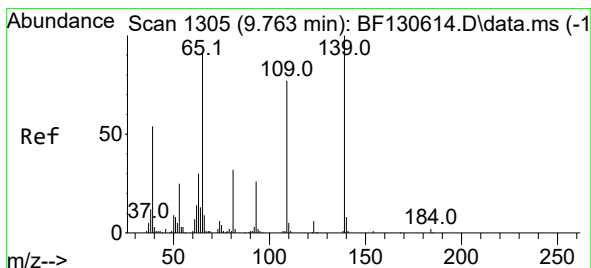
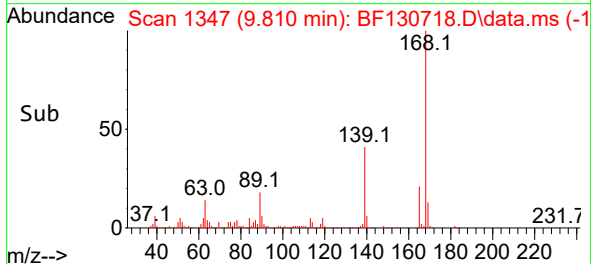
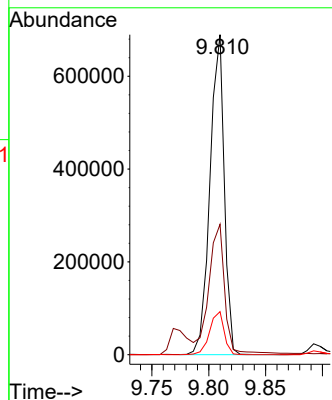
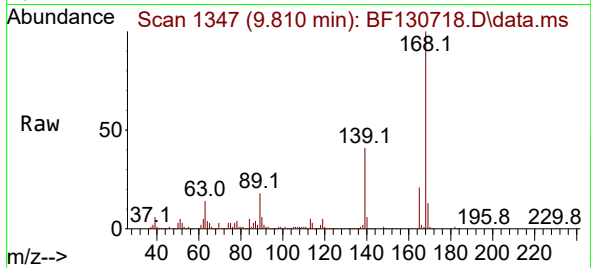




#55  
Dibenzenofuran  
Concen: 43.181 ng  
RT: 9.810 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

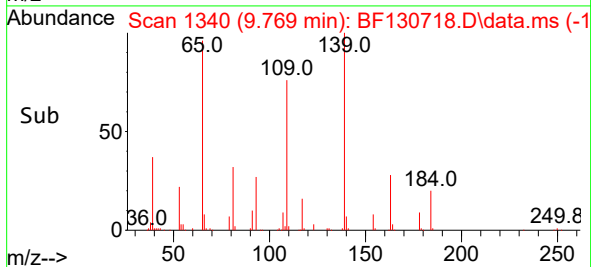
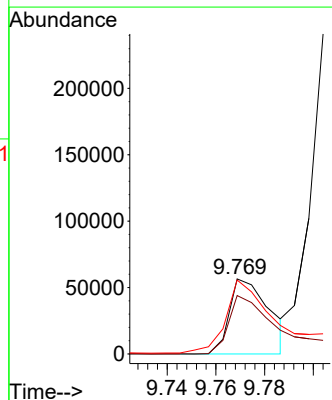
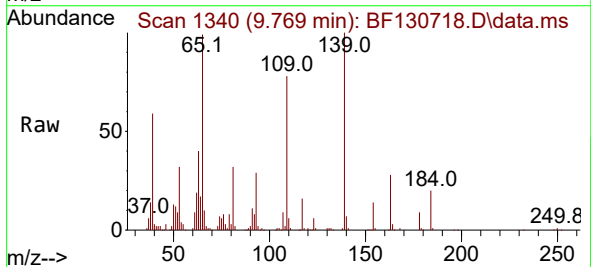
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

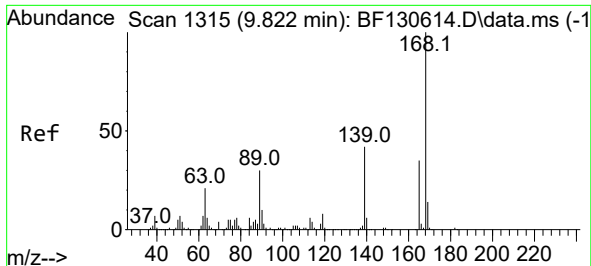
Tgt Ion:168 Resp: 601090  
Ion Ratio Lower Upper  
168 100  
139 40.8 33.0 49.4  
169 13.5 10.9 16.3



#56  
4-Nitrophenol  
Concen: 41.193 ng  
RT: 9.769 min Scan# 1340  
Delta R.T. 0.012 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:139 Resp: 64247  
Ion Ratio Lower Upper  
139 100  
109 77.9 57.4 97.4  
65 98.5 71.3 111.3

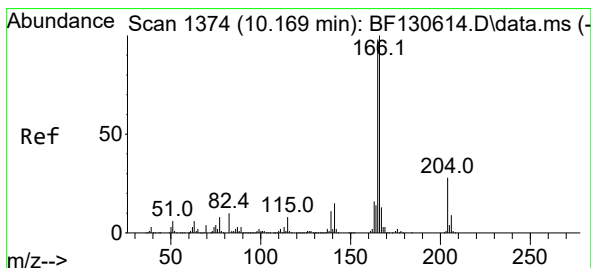
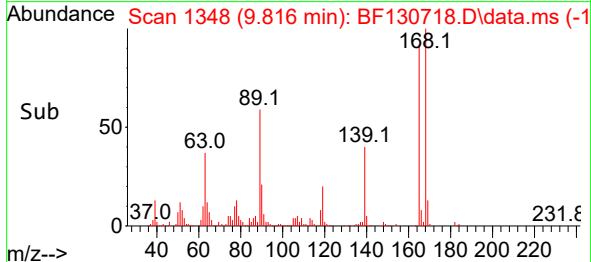
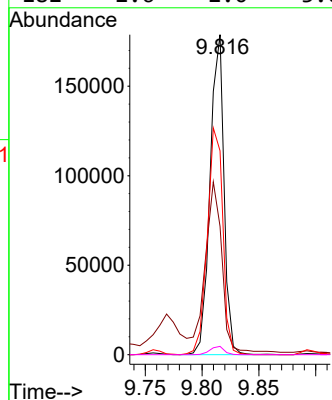
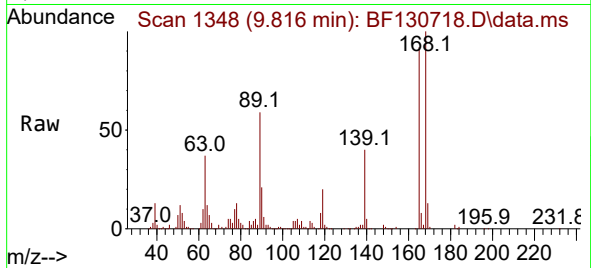




#57  
2,4-Dinitrotoluene  
Concen: 45.732 ng  
RT: 9.816 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

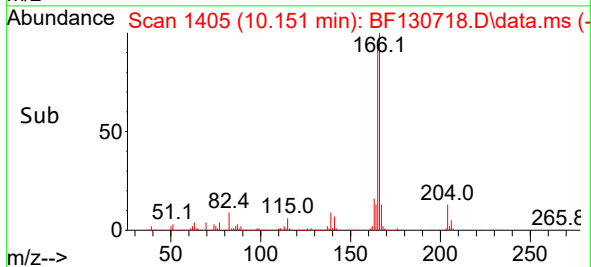
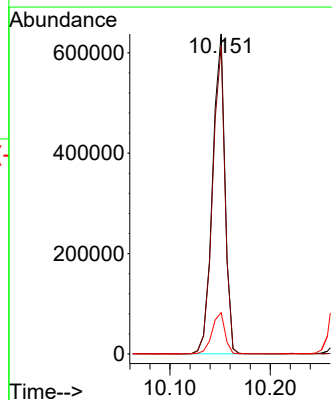
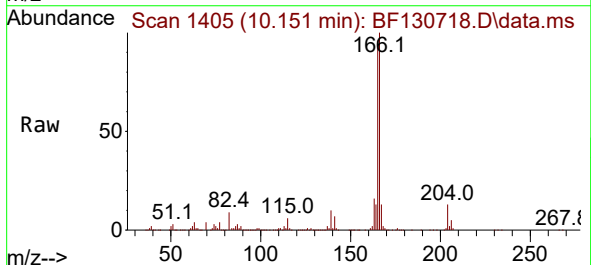
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

Tgt Ion:165 Resp: 151668  
Ion Ratio Lower Upper  
165 100  
63 40.1 50.6 76.0#  
89 63.7 68.6 102.8#  
182 2.6 2.0 3.0

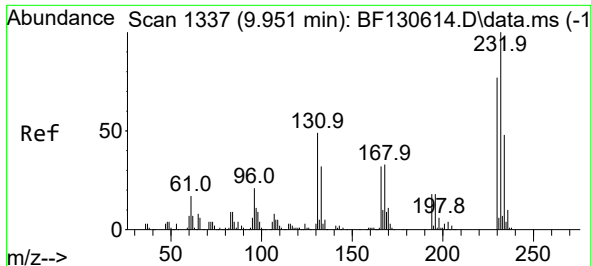


#58  
Fluorene  
Concen: 48.028 ng  
RT: 10.151 min Scan# 1405  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:166 Resp: 549653  
Ion Ratio Lower Upper  
166 100  
165 96.1 78.2 117.4  
167 12.9 10.8 16.2







#59

2,3,4,6-Tetrachlorophenol

Concen: 43.191 ng

RT: 9.939 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF130718.D

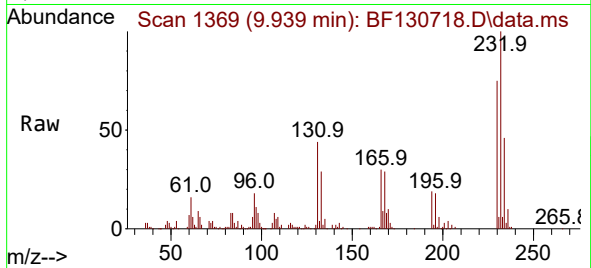
Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD



Tgt Ion:232 Resp: 117232

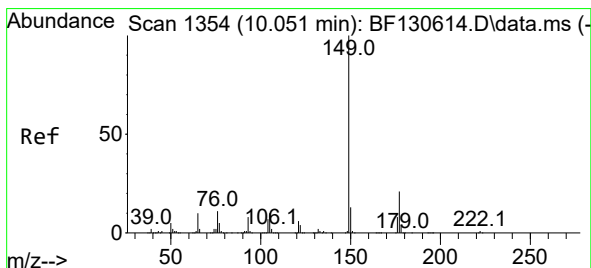
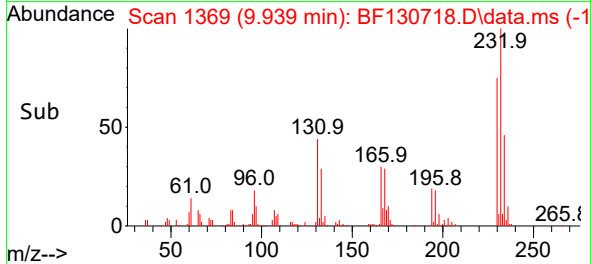
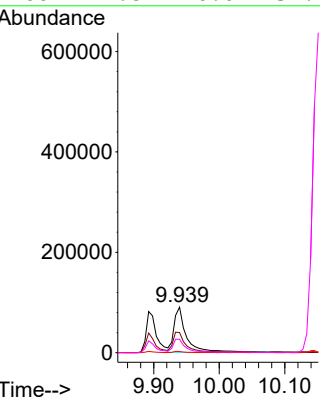
Ion Ratio Lower Upper

232 100

131 49.0 41.4 62.0

130 2.7 2.1 3.1

166 29.8 26.0 39.0



#60

Diethylphthalate

Concen: 44.920 ng

RT: 10.033 min Scan# 1385

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

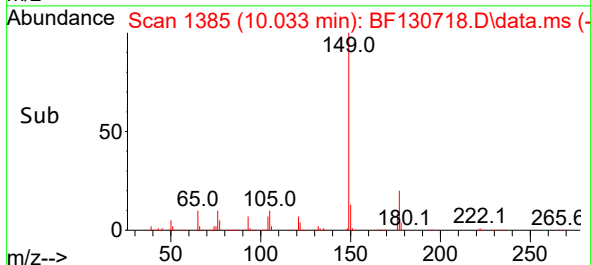
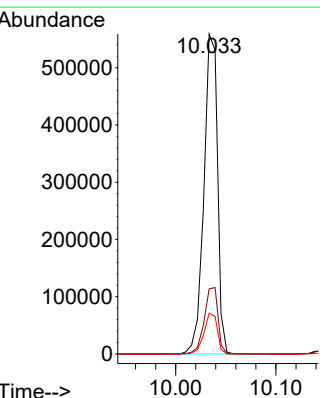
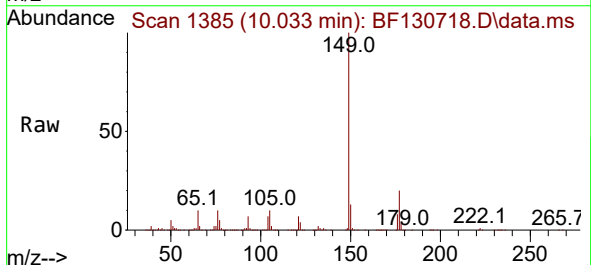
Tgt Ion:149 Resp: 527247

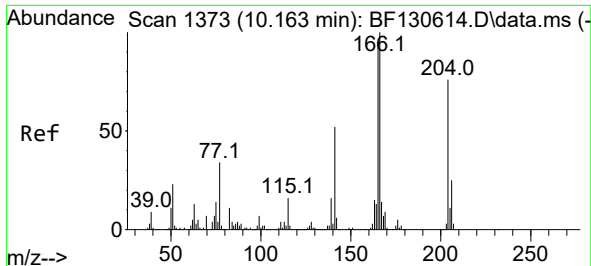
Ion Ratio Lower Upper

149 100

177 20.4 16.7 25.1

150 12.7 10.5 15.7

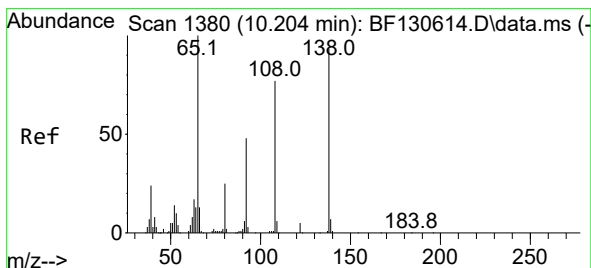
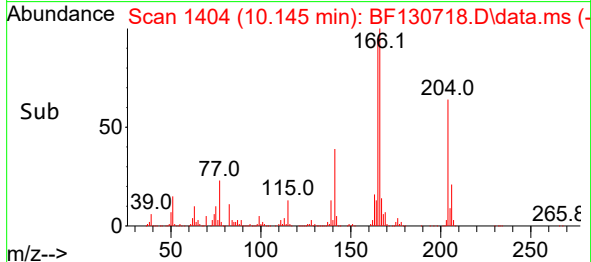
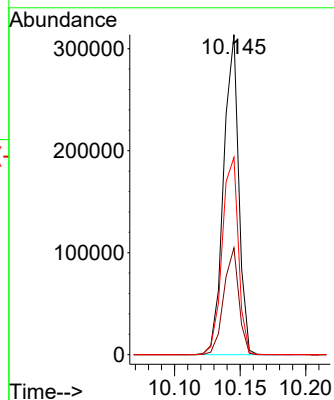
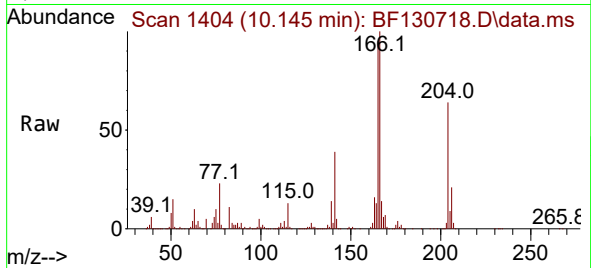




#61  
4-Chlorophenyl-phenylether  
Concen: 48.577 ng  
RT: 10.145 min Scan# 1412  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

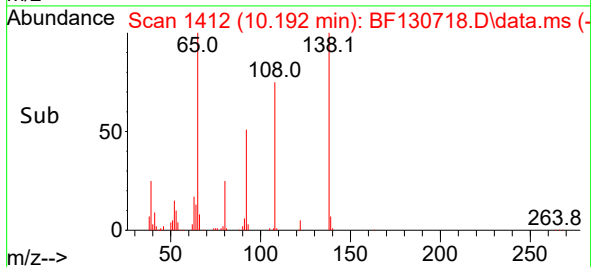
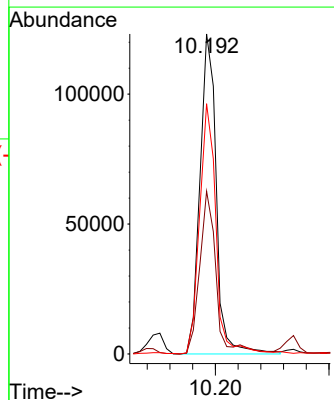
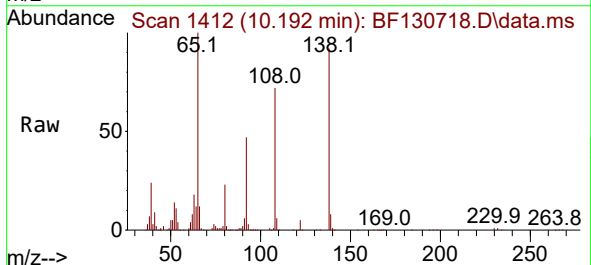
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

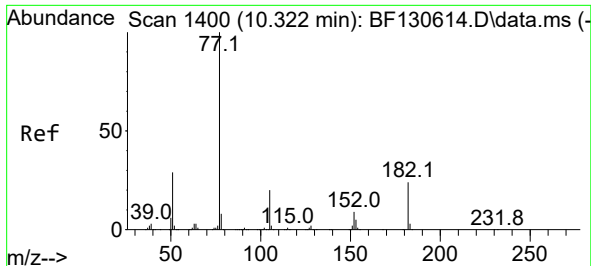
Tgt Ion:204 Resp: 251339  
Ion Ratio Lower Upper  
204 100  
206 33.4 26.1 39.1  
141 61.6 54.6 81.8



#62  
4-Nitroaniline  
Concen: 45.551 ng  
RT: 10.192 min Scan# 1412  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:138 Resp: 123018  
Ion Ratio Lower Upper  
138 100  
92 50.9 31.1 71.1  
108 78.2 62.1 102.1

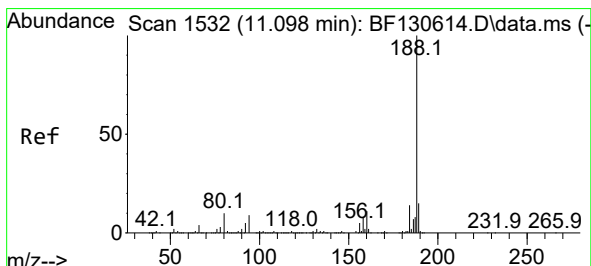
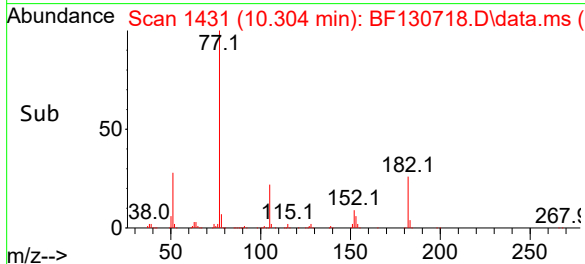
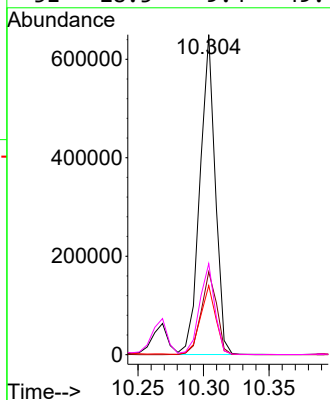
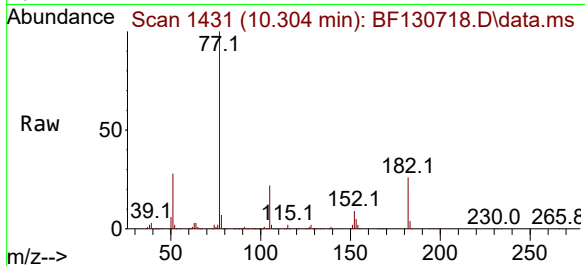




#63  
Azobenzene  
Concen: 47.648 ng  
RT: 10.304 min Scan# 1400  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

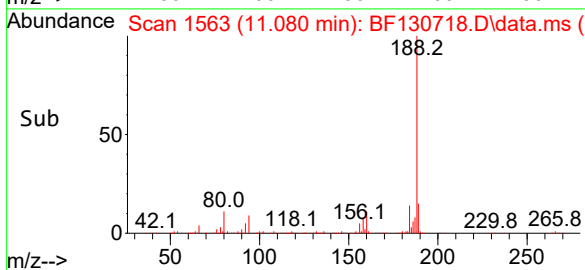
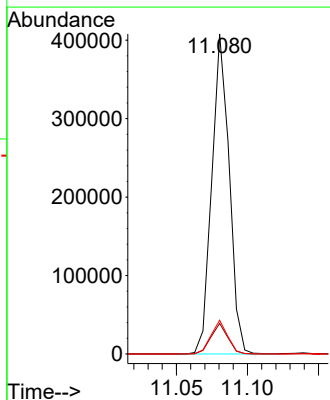
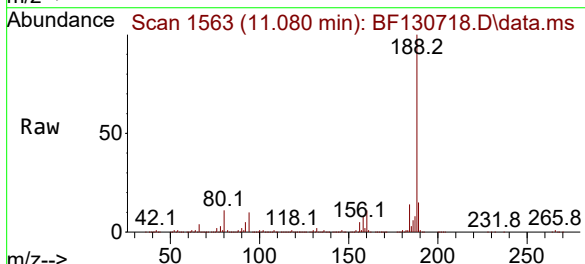
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

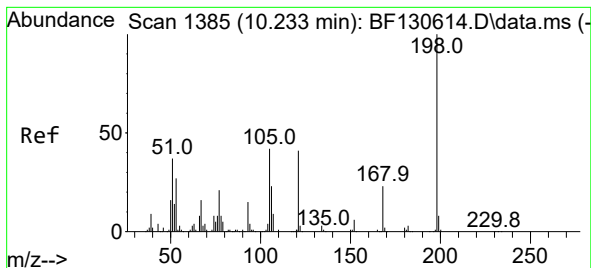
|             |              |
|-------------|--------------|
| Tgt Ion: 77 | Resp: 526756 |
| Ion Ratio   | Lower Upper  |
| 77 100      |              |
| 182 25.9    | 3.8 43.8     |
| 105 21.6    | 0.3 40.3     |
| 51 28.5     | 9.4 49.4     |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.080 min Scan# 1563  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

|             |              |       |  |
|-------------|--------------|-------|--|
| Tgt Ion:188 | Resp: 348606 |       |  |
| Ion Ratio   | Lower        | Upper |  |
| 188 100     |              |       |  |
| 94 9.5      | 7.4          | 11.2  |  |
| 80 10.6     | 8.0          | 12.0  |  |

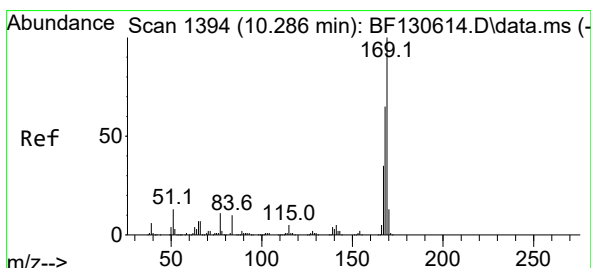
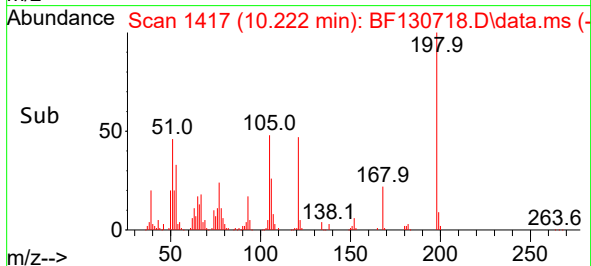
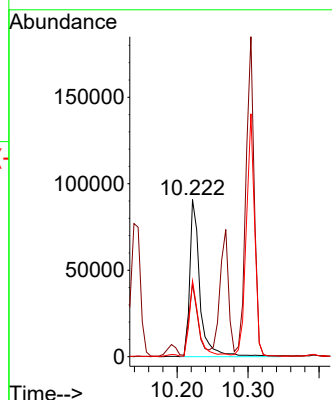
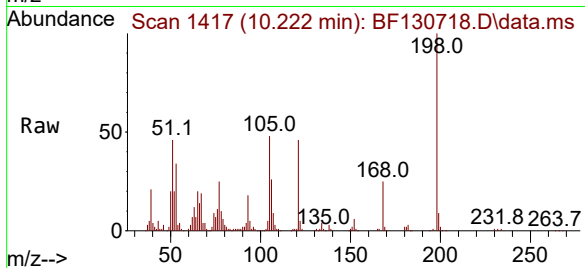




#65  
4,6-Dinitro-2-methylphenol  
Concen: 41.653 ng  
RT: 10.222 min Scan# 1417  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

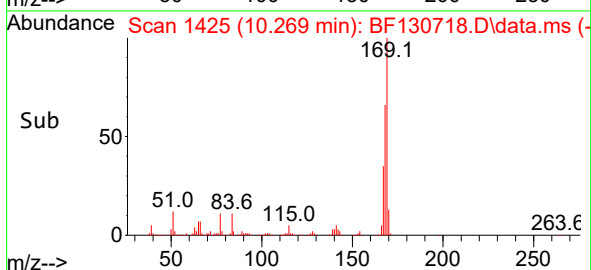
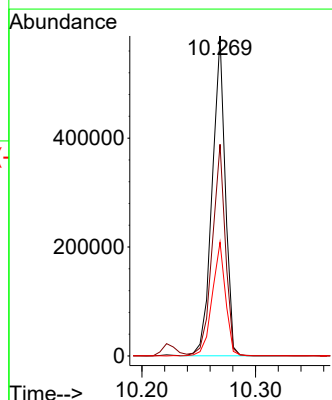
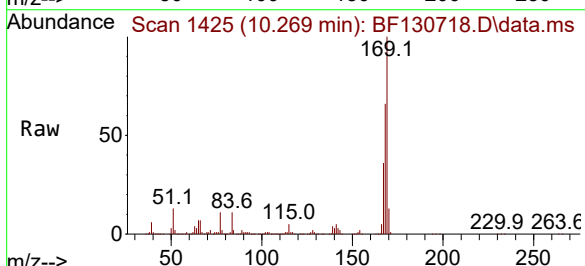
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

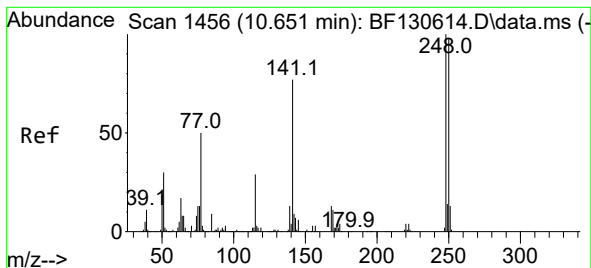
Tgt Ion:198 Resp: 90741  
Ion Ratio Lower Upper  
198 100  
51 46.4 18.7 58.7  
105 48.2 22.0 62.0



#66  
n-Nitrosodiphenylamine  
Concen: 40.484 ng  
RT: 10.269 min Scan# 1425  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:169 Resp: 469452  
Ion Ratio Lower Upper  
169 100  
168 66.1 52.2 78.4  
167 35.6 28.3 42.5

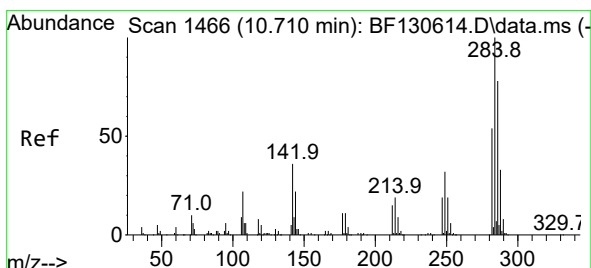
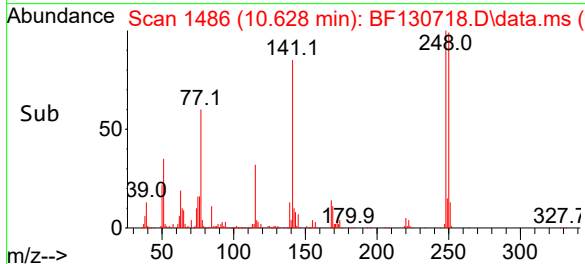
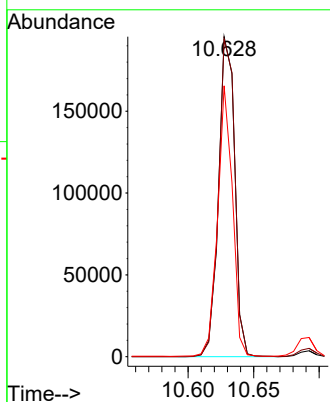
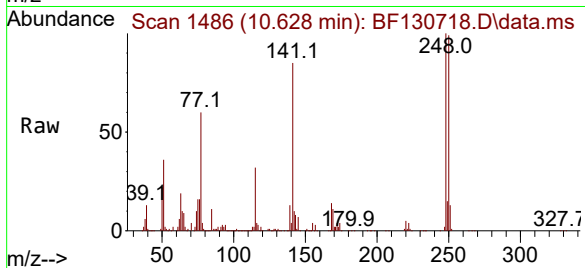




#67  
4-Bromophenyl-phenylether  
Concen: 42.334 ng  
RT: 10.628 min Scan# 1497  
Delta R.T. -0.012 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

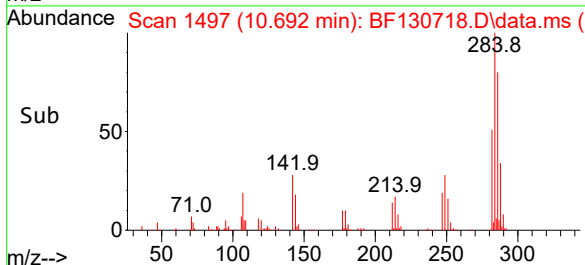
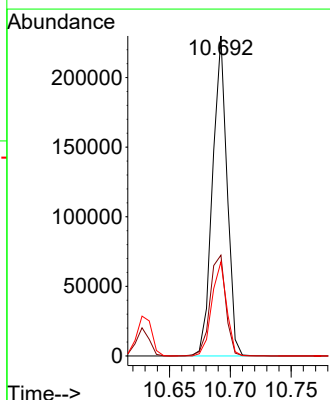
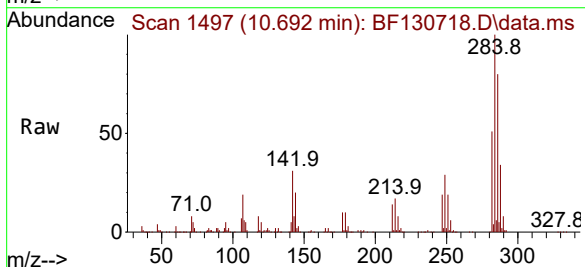
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

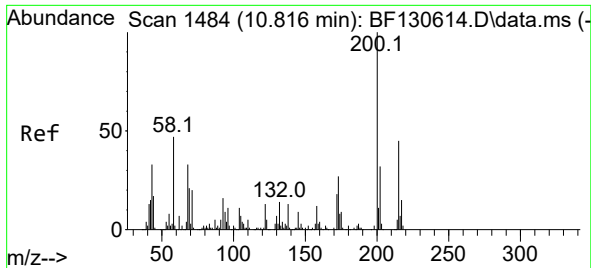
Tgt Ion:248 Resp: 166983  
Ion Ratio Lower Upper  
248 100  
250 99.2 78.7 118.1  
141 84.7 61.6 92.4



#68  
Hexachlorobenzene  
Concen: 42.675 ng  
RT: 10.692 min Scan# 1497  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:284 Resp: 190284  
Ion Ratio Lower Upper  
284 100  
142 31.5 28.6 42.8  
249 29.4 25.2 37.8

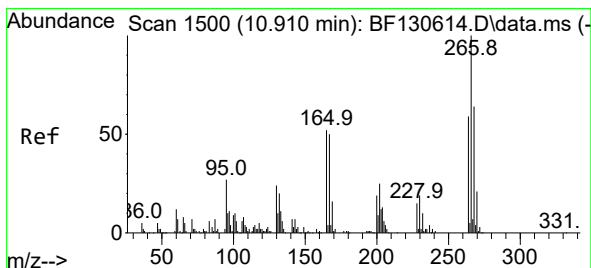
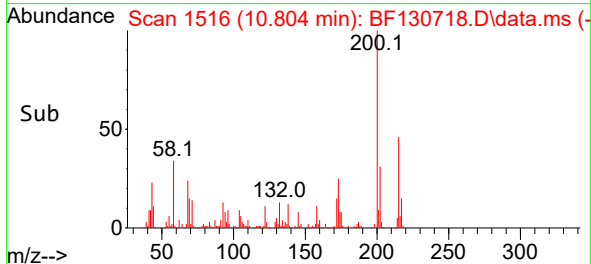
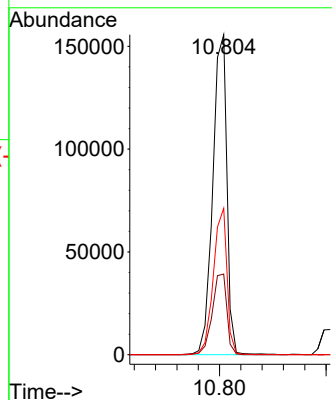
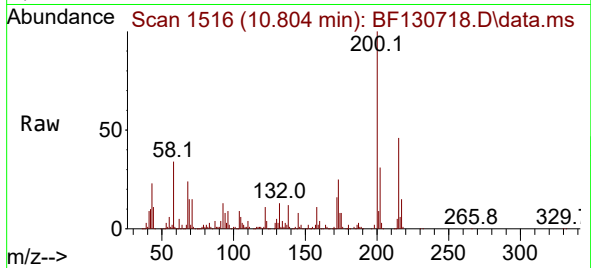




#69  
Atrazine  
Concen: 45.227 ng  
RT: 10.804 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

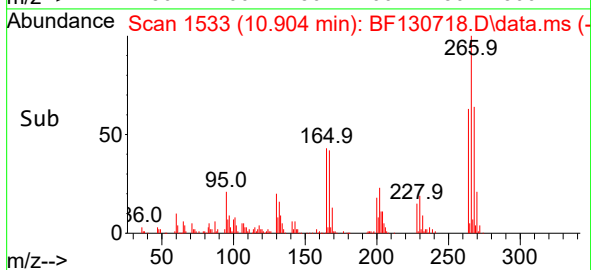
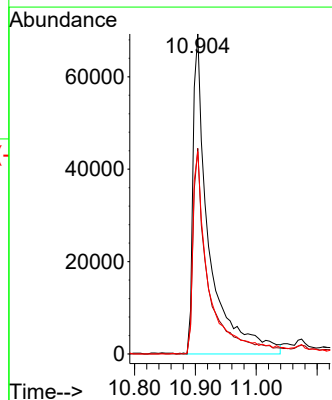
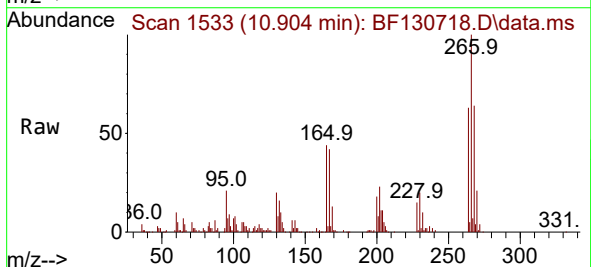
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

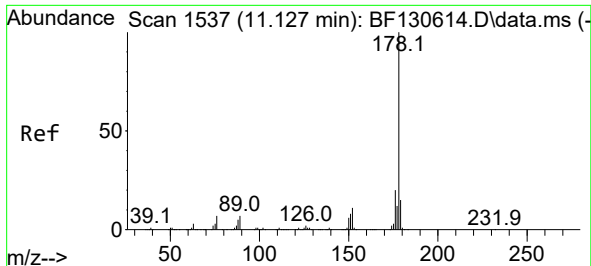
Tgt Ion:200 Resp: 142811  
Ion Ratio Lower Upper  
200 100  
173 25.2 7.1 47.1  
215 45.7 24.9 64.9



#70  
Pentachlorophenol  
Concen: 72.688 ng  
RT: 10.904 min Scan# 1533  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:266 Resp: 126143  
Ion Ratio Lower Upper  
266 100  
268 64.2 50.8 76.2  
264 63.2 47.5 71.3

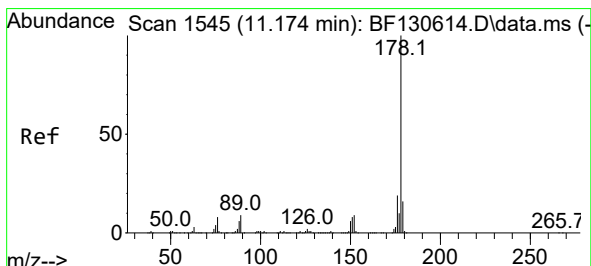
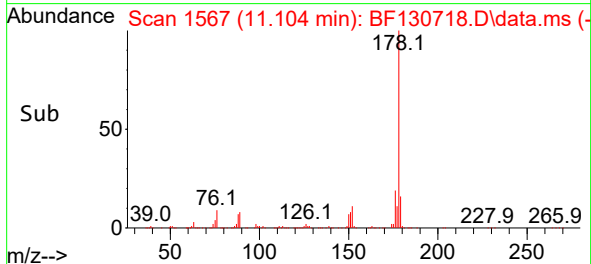
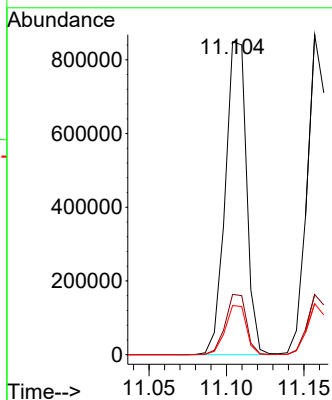
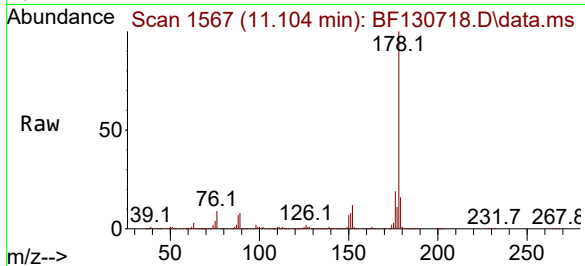




#71  
Phenanthrene  
Concen: 41.999 ng  
RT: 11.104 min Scan# 1537  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

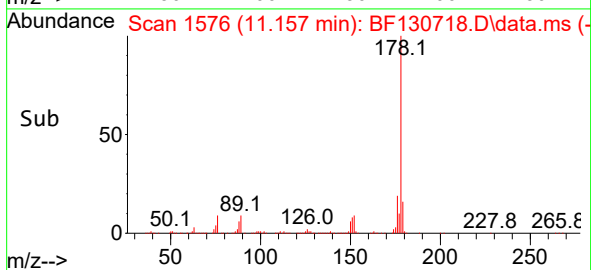
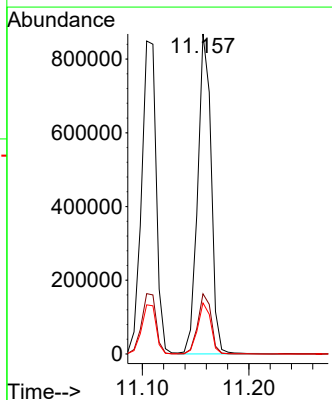
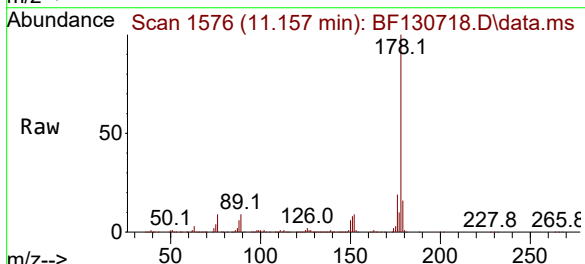
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

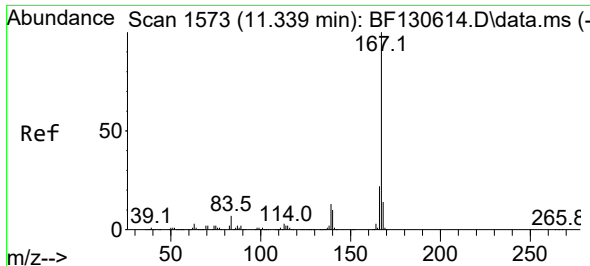
Tgt Ion:178 Resp: 811164  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.7 23.5  
179 15.7 12.2 18.4



#72  
Anthracene  
Concen: 40.443 ng  
RT: 11.157 min Scan# 1576  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:178 Resp: 762866  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.4  
179 16.0 12.5 18.7

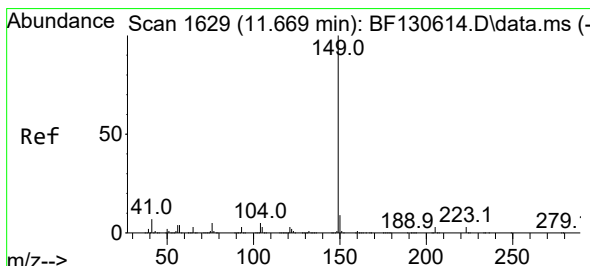
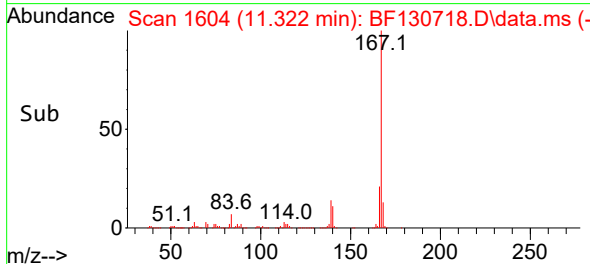
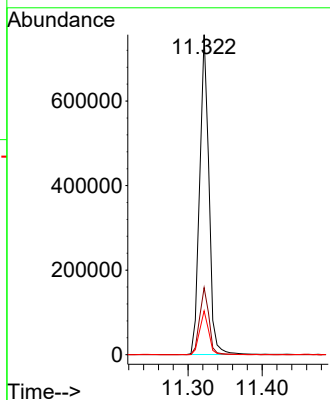
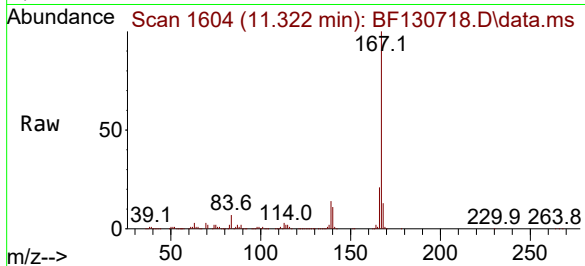




#73  
Carbazole  
Concen: 38.790 ng  
RT: 11.322 min Scan# 1604  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

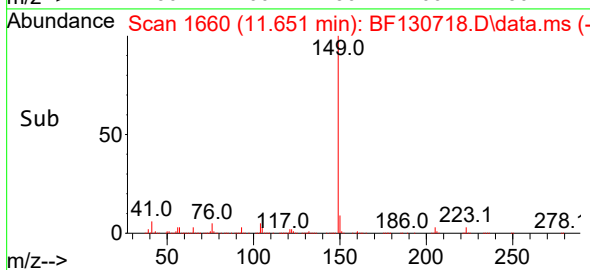
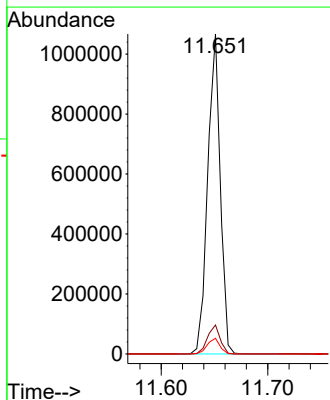
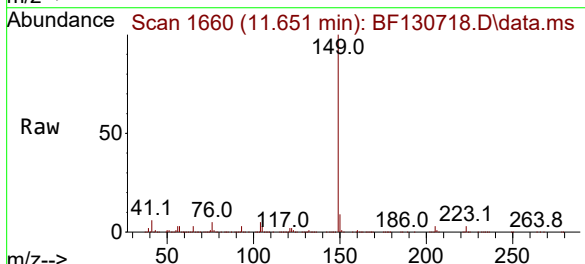
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

Tgt Ion:167 Resp: 652906  
Ion Ratio Lower Upper  
167 100  
166 20.9 17.3 25.9  
139 13.7 10.7 16.1

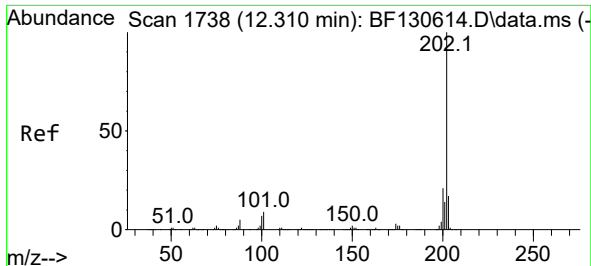


#74  
Di-n-butylphthalate  
Concen: 42.930 ng  
RT: 11.651 min Scan# 1660  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:149 Resp: 875277  
Ion Ratio Lower Upper  
149 100  
150 9.1 7.5 11.3  
104 4.9 4.2 6.2



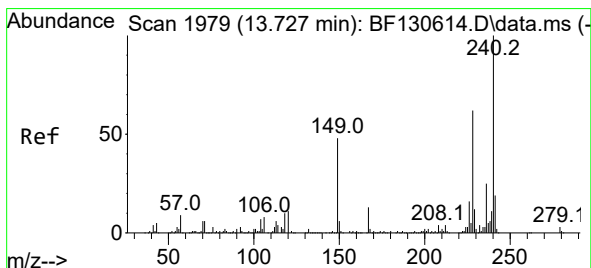
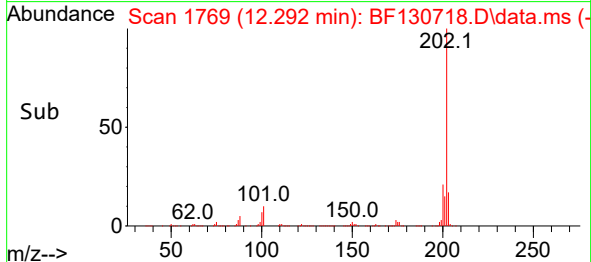
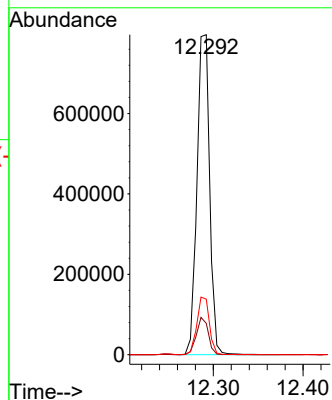
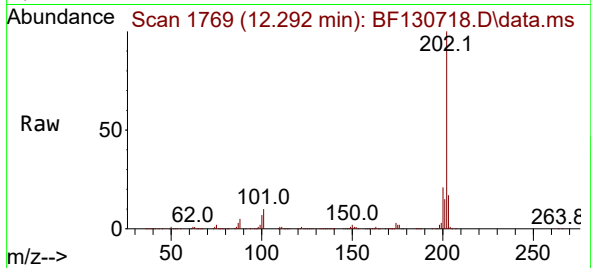




#75  
Fluoranthene  
Concen: 42.036 ng  
RT: 12.292 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

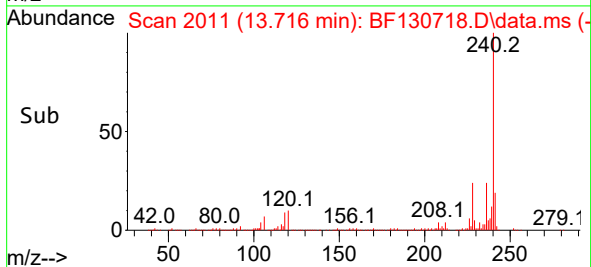
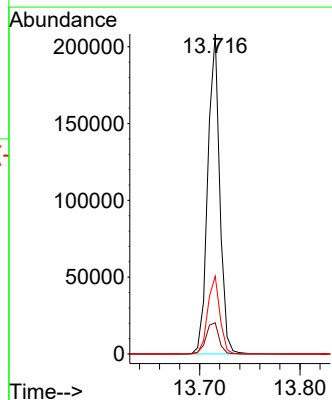
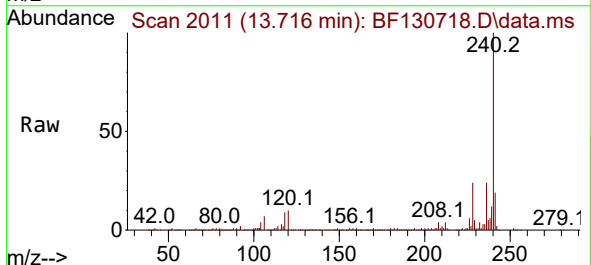
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

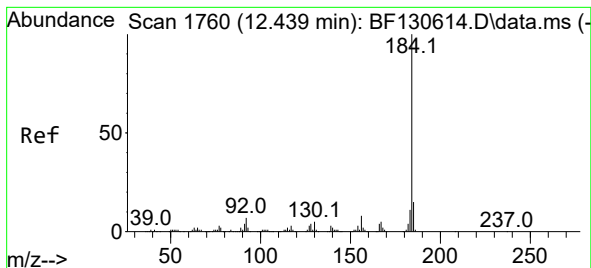
Tgt Ion:202 Resp: 780299  
Ion Ratio Lower Upper  
202 100  
101 9.8 0.0 29.1  
203 17.3 0.0 37.3



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.716 min Scan# 2011  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:240 Resp: 173110  
Ion Ratio Lower Upper  
240 100  
120 9.8 8.6 13.0  
236 24.3 20.2 30.4





#77

Benzidine

Concen: 12.385 ng

RT: 12.427 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

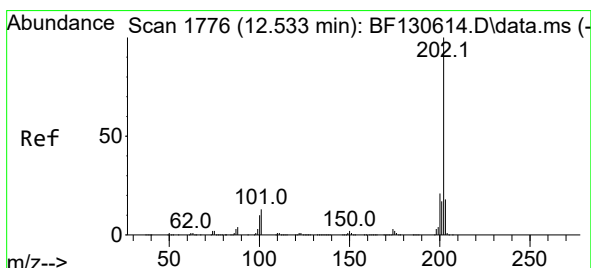
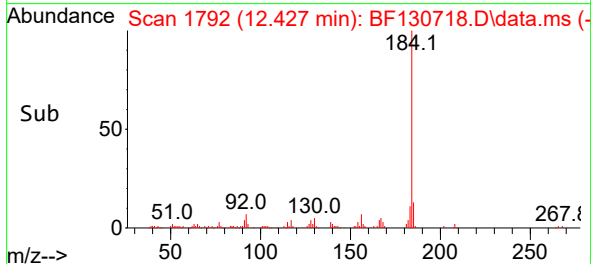
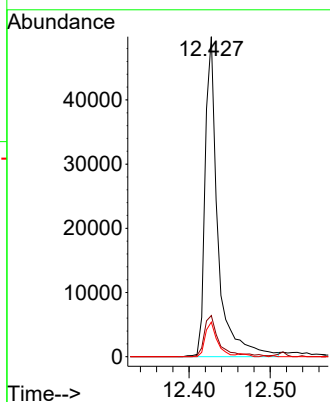
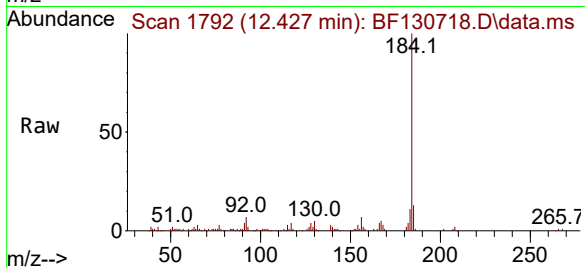
Tgt Ion:184 Resp: 54193

Ion Ratio Lower Upper

184 100

185 12.9 12.0 18.0

183 10.8 9.0 13.4



#78

Pyrene

Concen: 51.611 ng

RT: 12.516 min Scan# 1807

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

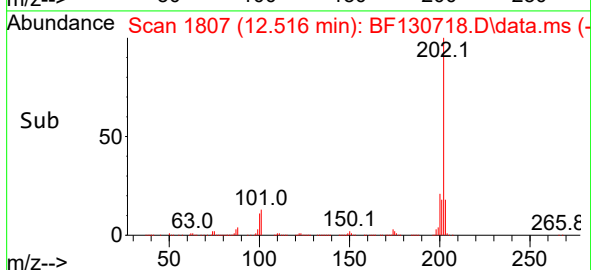
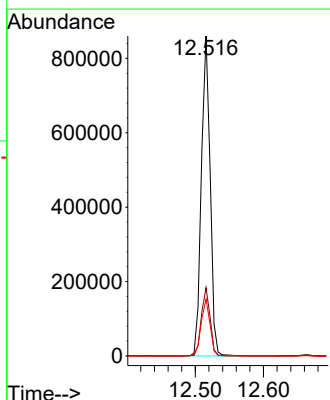
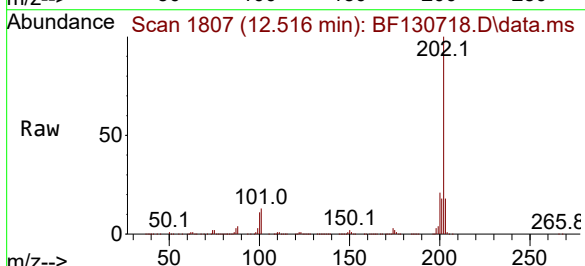
Tgt Ion:202 Resp: 770781

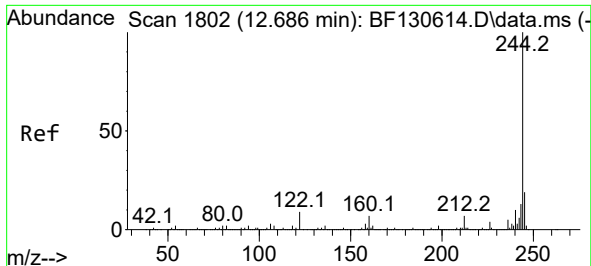
Ion Ratio Lower Upper

202 100

200 21.4 16.7 25.1

203 17.7 14.0 21.0

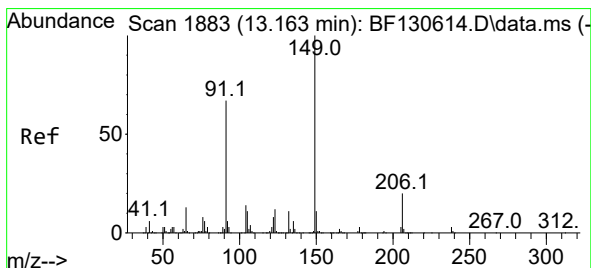
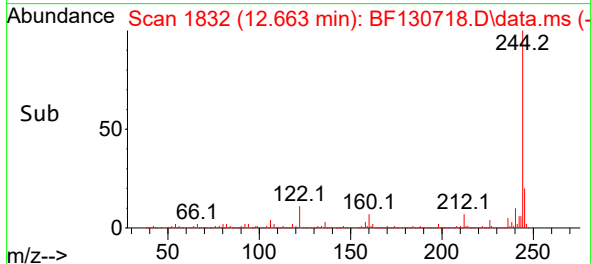
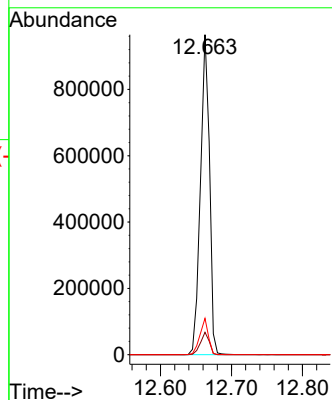
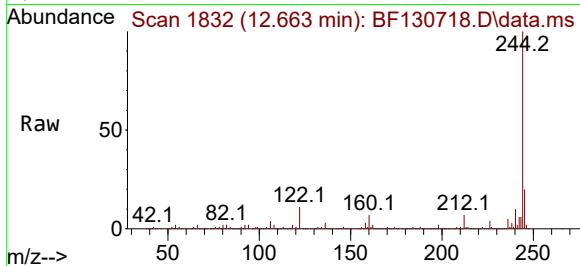




#79  
 Terphenyl-d14  
 Concen: 82.056 ng  
 RT: 12.663 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: BF130718.D  
 Acq: 19 Oct 2022 19:00

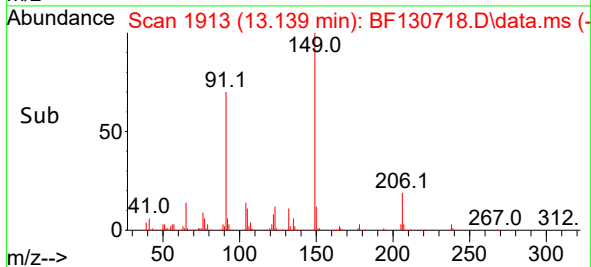
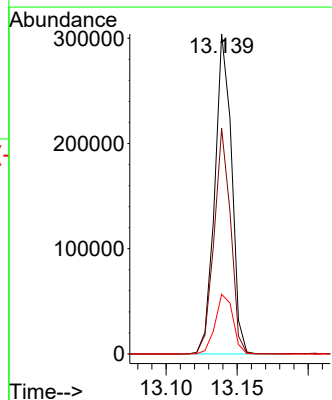
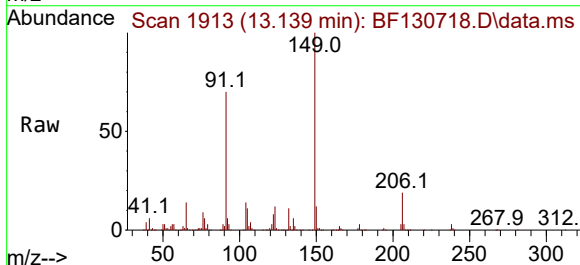
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HAS-SOIL-1013MSD

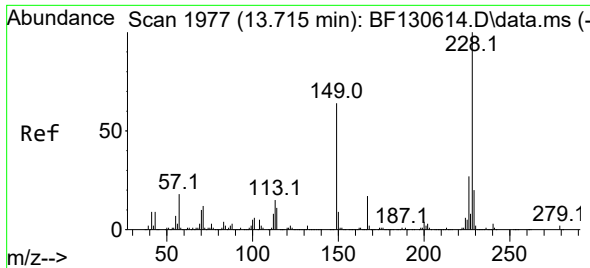
Tgt Ion:244 Resp: 855844  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.4 8.0  
 122 11.3 7.5 11.3#



#80  
 Butylbenzylphthalate  
 Concen: 43.676 ng  
 RT: 13.139 min Scan# 1913  
 Delta R.T. -0.012 min  
 Lab File: BF130718.D  
 Acq: 19 Oct 2022 19:00

Tgt Ion:149 Resp: 250816  
 Ion Ratio Lower Upper  
 149 100  
 91 70.5 53.8 80.8  
 206 18.7 15.8 23.6

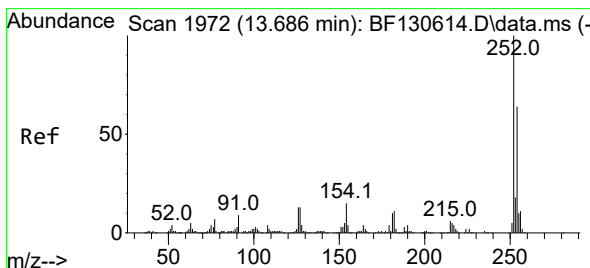
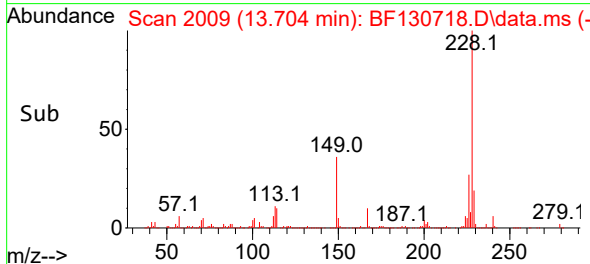
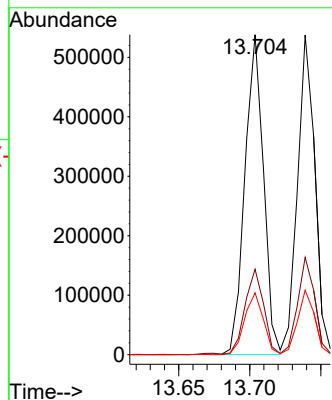
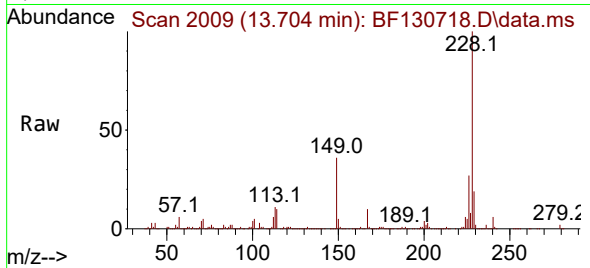




#81  
Benzo(a)anthracene  
Concen: 41.921 ng  
RT: 13.704 min Scan# 2004  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

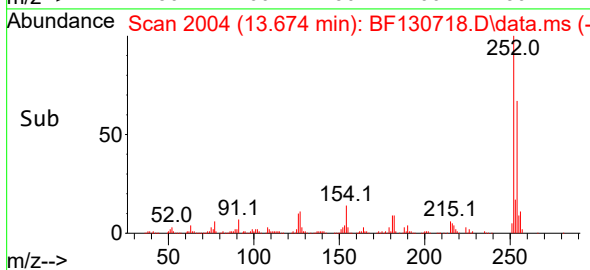
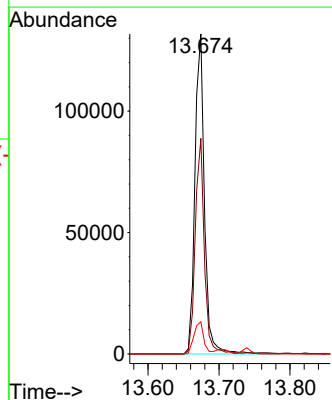
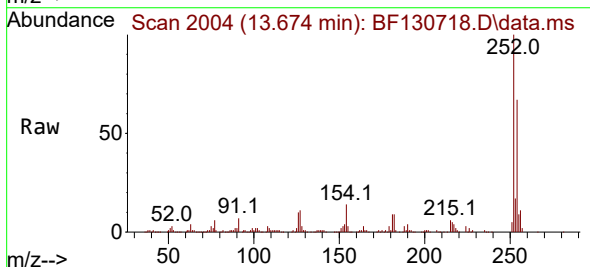
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

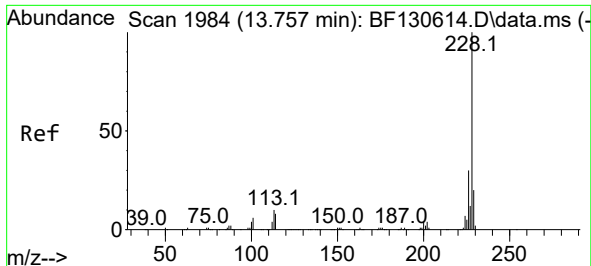
Tgt Ion:228 Resp: 488986  
Ion Ratio Lower Upper  
228 100  
226 26.7 21.4 32.2  
229 19.3 15.8 23.8



#82  
3,3'-Dichlorobenzidine  
Concen: 36.651 ng  
RT: 13.674 min Scan# 2004  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:252 Resp: 123540  
Ion Ratio Lower Upper  
252 100  
254 67.3 50.9 76.3  
126 10.0 10.2 15.4#





#83

Chrysene

Concen: 41.472 ng

RT: 13.739 min Scan# 2008

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

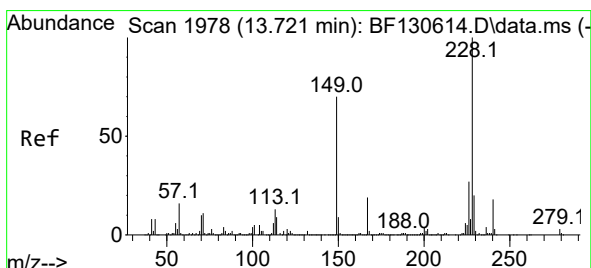
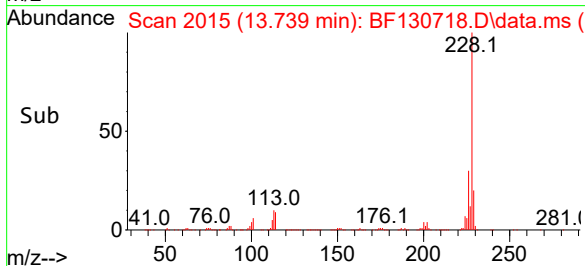
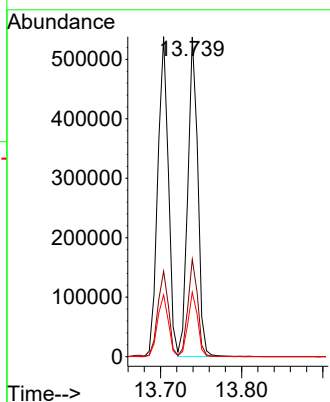
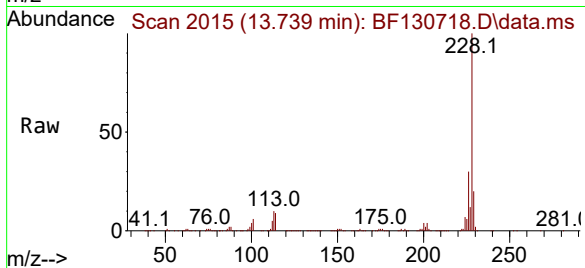
Tgt Ion:228 Resp: 458653

Ion Ratio Lower Upper

228 100

226 30.5 23.9 35.9

229 20.2 15.9 23.9



#84

Bis(2-ethylhexyl)phthalate

Concen: 43.033 ng

RT: 13.698 min Scan# 2008

Delta R.T. -0.012 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

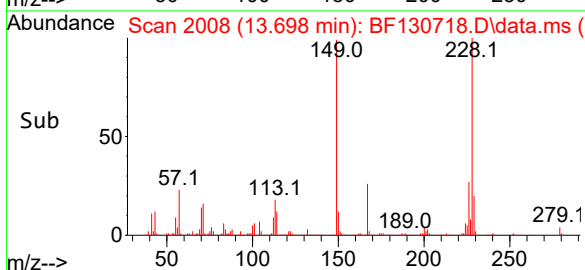
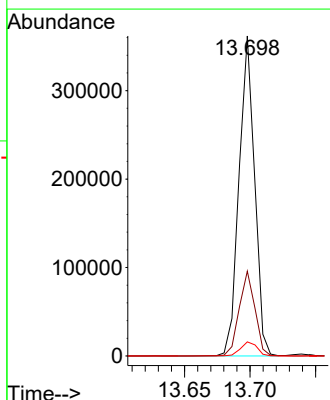
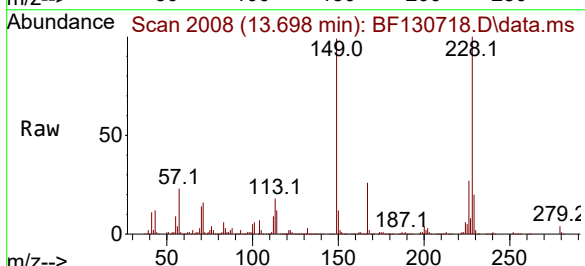
Tgt Ion:149 Resp: 299592

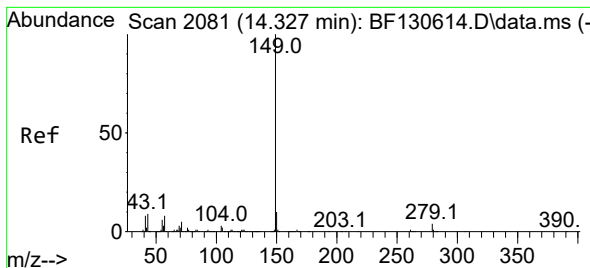
Ion Ratio Lower Upper

149 100

167 26.5 21.9 32.9

279 4.4 3.8 5.6





#85

Di-n-octyl phthalate

Concen: 37.604 ng

RT: 14.310 min Scan# 2112

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

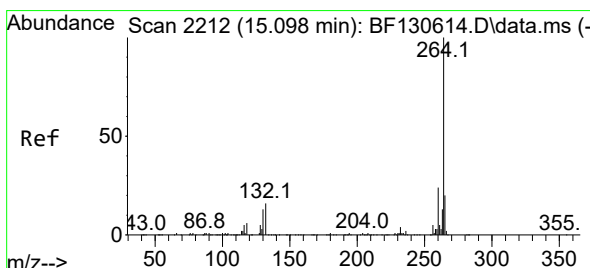
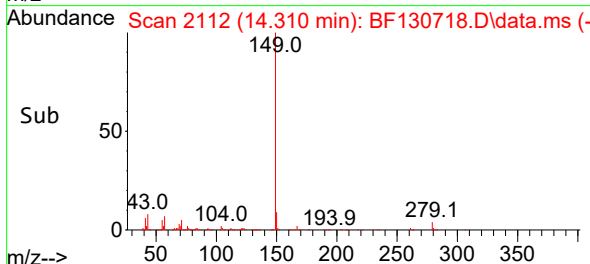
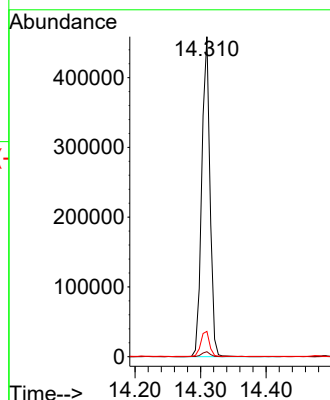
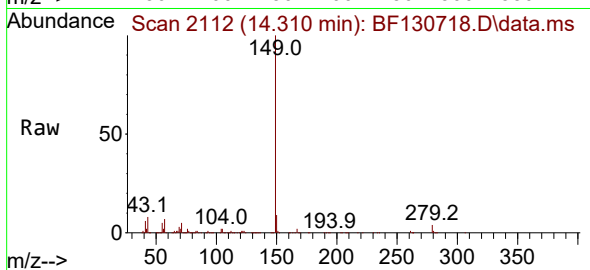
Tgt Ion:149 Resp: 400940

Ion Ratio Lower Upper

149 100

167 1.6 1.2 1.8

43 8.5 7.2 10.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.086 min Scan# 2244

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

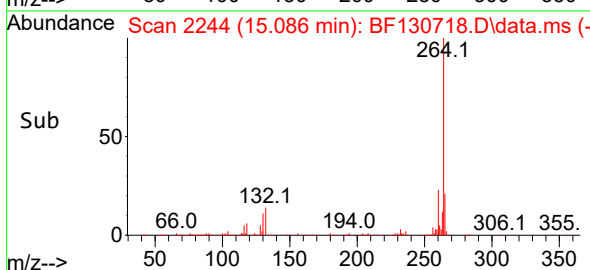
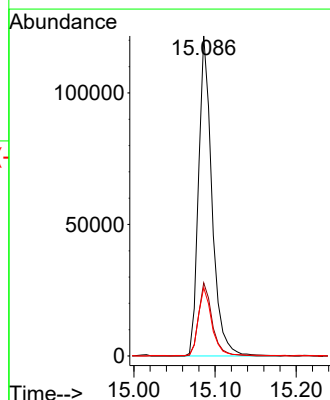
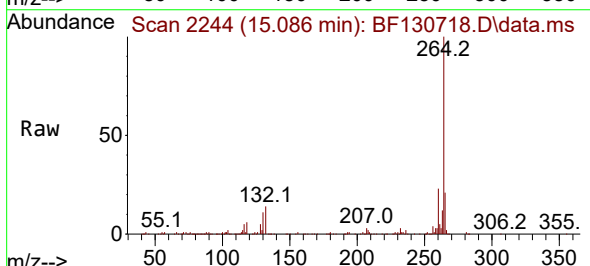
Tgt Ion:264 Resp: 140128

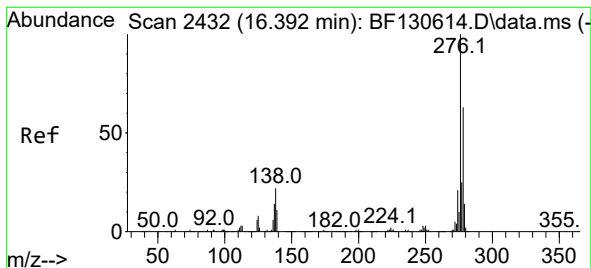
Ion Ratio Lower Upper

264 100

260 22.9 19.1 28.7

265 21.3 16.4 24.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 42.813 ng

RT: 16.380 min Scan# 24

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA\_F

ClientSampleId :

HAS-SOIL-1013MSD

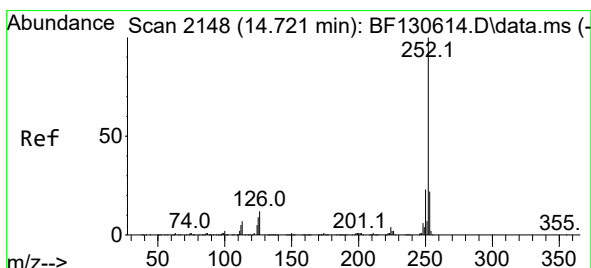
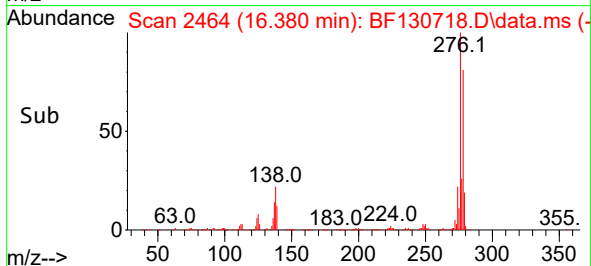
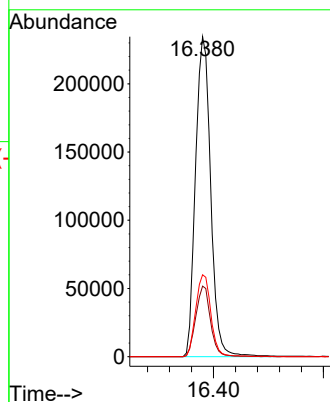
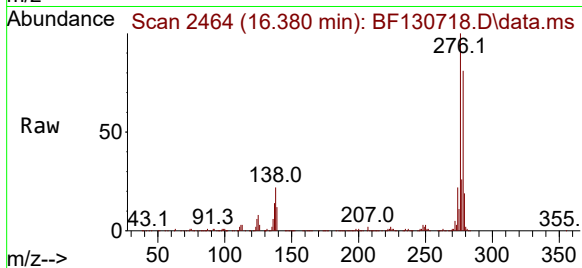
Tgt Ion:276 Resp: 449029

Ion Ratio Lower Upper

276 100

138 21.4 18.0 27.0

277 25.6 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 43.746 ng

RT: 14.710 min Scan# 2180

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

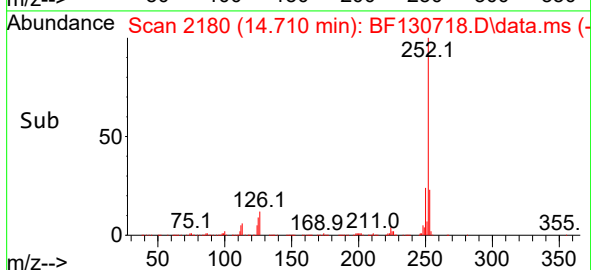
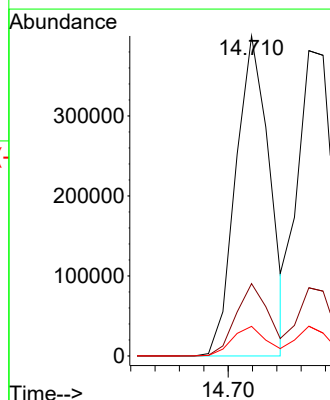
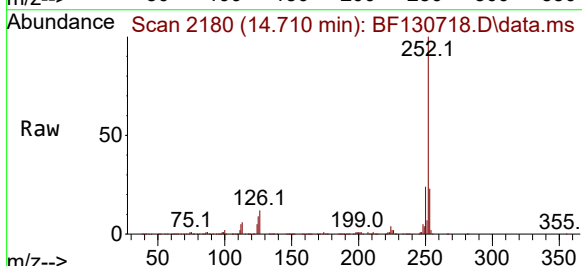
Tgt Ion:252 Resp: 388166

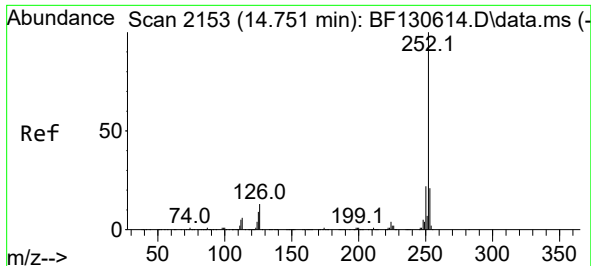
Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.2

125 9.2 7.4 11.0

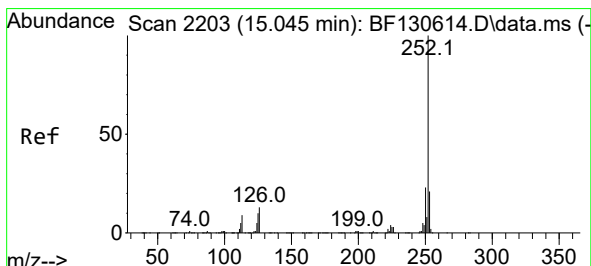
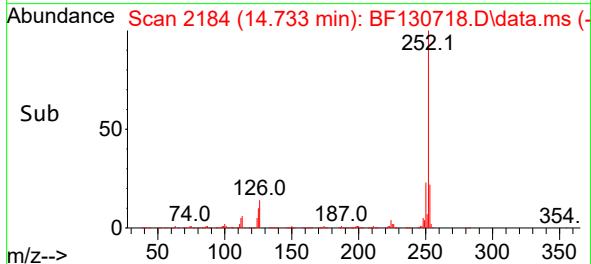
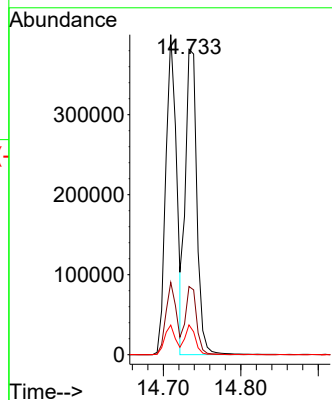
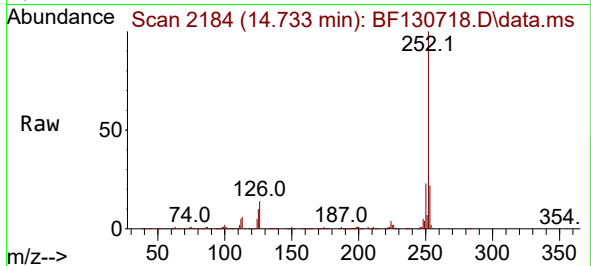




#89  
Benzo(k)fluoranthene  
Concen: 43.447 ng  
RT: 14.733 min Scan# 2153  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

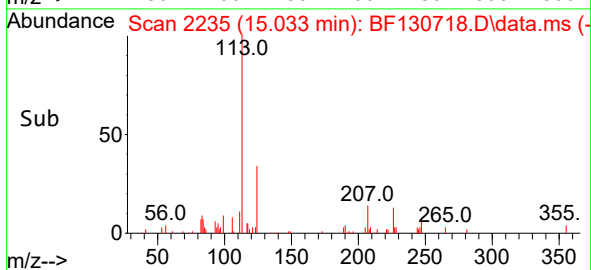
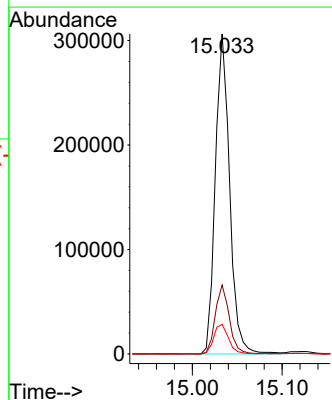
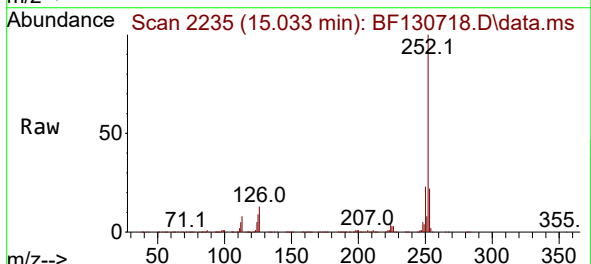
Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

Tgt Ion:252 Resp: 392540  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.0 25.4  
125 9.7 7.2 10.8

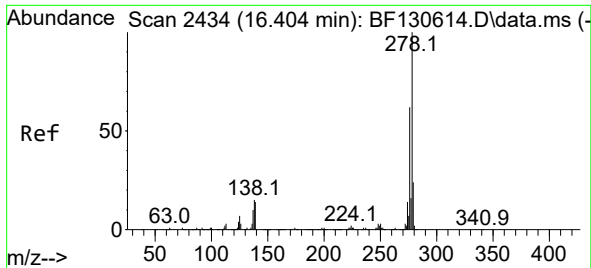


#90  
Benzo(a)pyrene  
Concen: 45.881 ng  
RT: 15.033 min Scan# 2235  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:252 Resp: 338833  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.0 25.6  
125 9.2 8.4 12.6



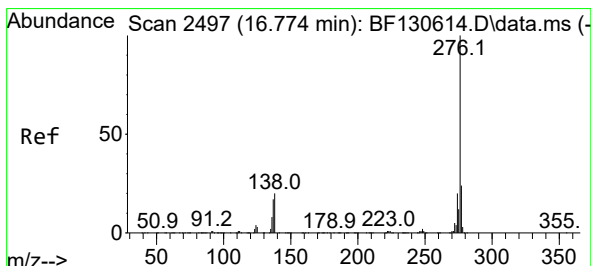
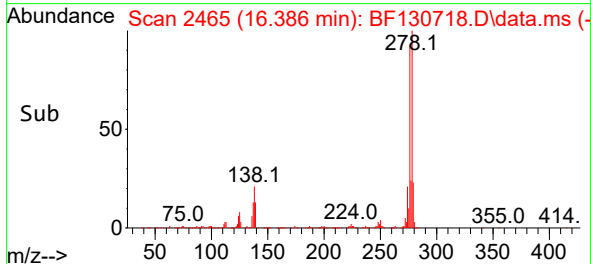
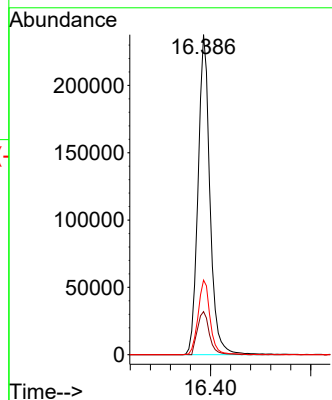
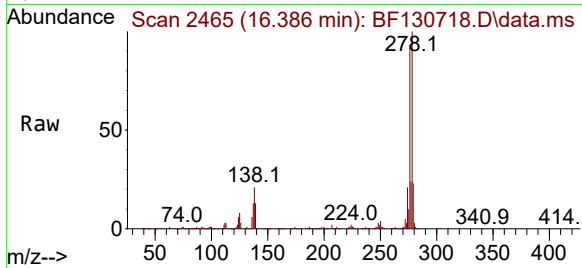




#91  
Dibenzo(a,h)anthracene  
Concen: 45.397 ng  
RT: 16.386 min Scan# 2434  
Delta R.T. -0.006 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Instrument :  
BNA\_F  
ClientSampleId :  
HAS-SOIL-1013MSD

Tgt Ion:278 Resp: 390281  
Ion Ratio Lower Upper  
278 100  
139 13.5 11.1 16.7  
279 23.3 19.0 28.4



#92  
Benzo(g,h,i)perylene  
Concen: 48.586 ng  
RT: 16.768 min Scan# 2530  
Delta R.T. -0.000 min  
Lab File: BF130718.D  
Acq: 19 Oct 2022 19:00

Tgt Ion:276 Resp: 389034  
Ion Ratio Lower Upper  
276 100  
277 24.6 18.9 28.3  
138 18.1 15.9 23.9

