

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP041725\  
 Data File : BP024327.D  
 Acq On : 17 Apr 2025 15:20  
 Operator : RC/JU  
 Sample : Q1821-01MS  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SOIL-CUTTINGMS

Quant Time: Apr 17 16:02:15 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP041425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 15 04:48:42 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.728  | 152  | 229439   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.499 | 136  | 851922   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.351 | 164  | 480975   | 20.000  | ng    | -0.02    |
| 64) Phenanthrene-d10          | 17.157 | 188  | 913873   | 20.000  | ng    | -0.02    |
| 76) Chrysene-d12              | 21.604 | 240  | 1033768  | 20.000  | ng    | -0.02    |
| 86) Perylene-d12              | 24.945 | 264  | 1271915  | 20.000  | ng    | -0.04    |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.346  | 112  | 1255693  | 90.492  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.910  | 99   | 1539496  | 81.024  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.869  | 82   | 937064   | 62.720  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 15.869 | 330  | 559320   | 84.051  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 12.963 | 172  | 1909390  | 60.783  | ng    | -0.02    |
| 79) Terphenyl-d14             | 19.875 | 244  | 2836041  | 55.297  | ng    | -0.05    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.287  | 88   | 266659   | 45.432  | ng    | 98       |
| 3) Pyridine                   | 3.687  | 79   | 556836   | 35.928  | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.593  | 42   | 230373   | 44.788  | ng    | 96       |
| 6) Aniline                    | 7.081  | 93   | 344004   | 20.261  | ng    | 99       |
| 8) 2-Chlorophenol             | 7.305  | 128  | 662621   | 42.770  | ng    | 98       |
| 9) Benzaldehyde               | 6.875  | 77   | 367442   | 39.094  | ng    | 99       |
| 10) Phenol                    | 6.940  | 94   | 816761   | 42.851  | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 7.158  | 93   | 637297   | 41.498  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.616  | 146  | 749699   | 44.948  | ng    | 100      |
| 13) 1,4-Dichlorobenzene       | 7.758  | 146  | 758300   | 44.809  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.075  | 146  | 718898   | 43.993  | ng    | 99       |
| 15) Benzyl Alcohol            | 7.963  | 79   | 424192   | 34.522  | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.252  | 45   | 713066   | 42.957  | ng    | 98       |
| 17) 2-Methylphenol            | 8.169  | 107  | 521104   | 42.262  | ng    | 99       |
| 18) Hexachloroethane          | 8.793  | 117  | 281497   | 46.028  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 8.522  | 70   | 449824   | 38.267  | ng    | 100      |
| 20) 3+4-Methylphenols         | 8.493  | 107  | 688635   | 40.250  | ng    | 100      |
| 22) Acetophenone              | 8.540  | 105  | 934460   | 44.317  | ng    | # 99     |
| 24) Nitrobenzene              | 8.916  | 77   | 681436   | 46.106  | ng    | 99       |
| 25) Isophorone                | 9.434  | 82   | 1230155  | 45.488  | ng    | 100      |
| 26) 2-Nitrophenol             | 9.616  | 139  | 332987   | 46.038  | ng    | 98       |
| 27) 2,4-Dimethylphenol        | 9.681  | 122  | 552448   | 60.830  | ng    | 98       |
| 28) bis(2-Chloroethoxy)met... | 9.910  | 93   | 779833   | 42.687  | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 10.157 | 162  | 535003   | 43.204  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 10.357 | 180  | 611468   | 46.088  | ng    | 97       |
| 31) Naphthalene               | 10.551 | 128  | 1922443  | 42.839  | ng    | 99       |
| 32) Benzoic acid              | 9.816  | 122  | 313464   | 29.621  | ng    | 97       |
| 33) 4-Chloroaniline           | 10.699 | 127  | 224557   | 14.209  | ng    | 98       |
| 34) Hexachlorobutadiene       | 10.840 | 225  | 365983   | 46.943  | ng    | 100      |
| 35) Caprolactam               | 11.451 | 113  | 172203   | 37.689  | ng    | 99       |
| 36) 4-Chloro-3-methylphenol   | 11.793 | 107  | 567905   | 39.374  | ng    | 98       |
| 37) 2-Methylnaphthalene       | 12.157 | 142  | 1167687  | 37.519  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.375 | 142  | 1215065  | 39.908  | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 12.528 | 216  | 623657   | 47.151  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.510 | 237  | 895651   | 191.461 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 12.775 | 196  | 402264   | 45.743  | ng    | 98       |

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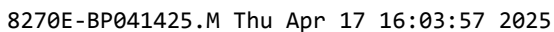
Instrument :  
 BNA\_P  
 ClientSampleId :  
 SOIL-CUTTINGMS

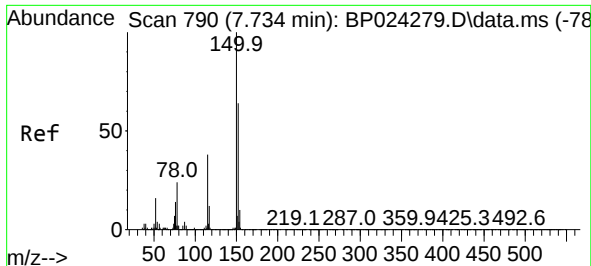
Quant Time: Apr 17 16:02:15 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP041425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 15 04:48:42 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.851 | 196  | 435330   | 44.704 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 13.175 | 154  | 1579506  | 44.677 | ng    | 100      |
| 47) 2-Chloronaphthalene       | 13.216 | 162  | 1216254  | 46.030 | ng    | 99       |
| 48) 2-Nitroaniline            | 13.422 | 65   | 347040   | 46.822 | ng    | 92       |
| 49) Acenaphthylene            | 14.075 | 152  | 1993630  | 47.922 | ng    | 100      |
| 50) Dimethylphthalate         | 13.810 | 163  | 1458860  | 41.709 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 13.928 | 165  | 319052   | 42.956 | ng    | 98       |
| 52) Acenaphthene              | 14.416 | 154  | 1122585  | 42.564 | ng    | 100      |
| 53) 3-Nitroaniline            | 14.269 | 138  | 337302   | 43.209 | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 14.469 | 184  | 403623   | 92.255 | ng    | 96       |
| 55) Dibenzofuran              | 14.751 | 168  | 1770106  | 41.060 | ng    | 99       |
| 56) 4-Nitrophenol             | 14.587 | 139  | 597373   | 88.606 | ng    | 94       |
| 57) 2,4-Dinitrotoluene        | 14.728 | 165  | 455959   | 45.003 | ng    | 98       |
| 58) Fluorene                  | 15.416 | 166  | 1436663  | 43.049 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 14.987 | 232  | 383539   | 42.703 | ng    | 99       |
| 60) Diethylphthalate          | 15.192 | 149  | 1494111  | 41.451 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.410 | 204  | 686013   | 42.331 | ng    | 99       |
| 62) 4-Nitroaniline            | 15.439 | 138  | 353015   | 42.718 | ng    | 95       |
| 63) Azobenzene                | 15.710 | 77   | 1637510  | 49.428 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.504 | 198  | 255384   | 44.325 | ng    | 96       |
| 66) n-Nitrosodiphenylamine    | 15.634 | 169  | 1216932  | 44.614 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.322 | 248  | 445466   | 44.570 | ng    | 98       |
| 68) Hexachlorobenzene         | 16.439 | 284  | 531777   | 44.775 | ng    | 96       |
| 69) Atrazine                  | 16.622 | 200  | 397973   | 57.285 | ng    | 99       |
| 70) Pentachlorophenol         | 16.798 | 266  | 731583   | 88.297 | ng    | 99       |
| 71) Phenanthrene              | 17.198 | 178  | 2212223  | 44.374 | ng    | 99       |
| 72) Anthracene                | 17.292 | 178  | 2255303  | 46.937 | ng    | 99       |
| 73) Carbazole                 | 17.575 | 167  | 2100348  | 44.738 | ng    | 100      |
| 74) Di-n-butylphthalate       | 18.163 | 149  | 2623835  | 44.859 | ng    | 100      |
| 75) Fluoranthene              | 19.286 | 202  | 2642023  | 44.558 | ng    | 99       |
| 77) Benzidine                 | 19.492 | 184  | 1301862  | 99.349 | ng    | 100      |
| 78) Pyrene                    | 19.663 | 202  | 2794585  | 42.537 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.610 | 149  | 1284880  | 45.661 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.580 | 228  | 2968621  | 46.201 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 21.510 | 252  | 881418   | 39.083 | ng    | 100      |
| 83) Chrysene                  | 21.651 | 228  | 2759501  | 44.827 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 21.527 | 149  | 1895349  | 45.946 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 22.810 | 149  | 3347688  | 49.918 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 28.774 | 276  | 4413685  | 49.984 | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 23.898 | 252  | 3260338  | 42.764 | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 23.968 | 252  | 3272022  | 44.431 | ng    | 100      |
| 90) Benzo(a)pyrene            | 24.792 | 252  | 3185071  | 48.432 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 28.839 | 278  | 3600668  | 49.127 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 29.933 | 276  | 3565495  | 47.794 | ng    | 99       |

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

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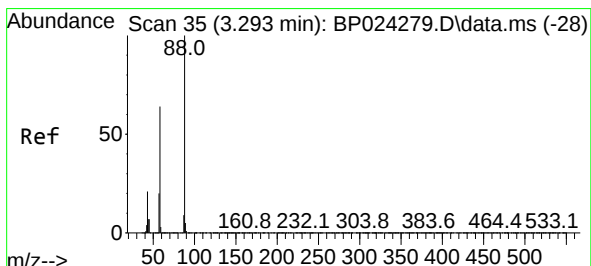
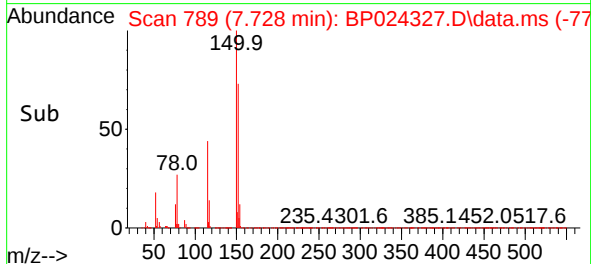
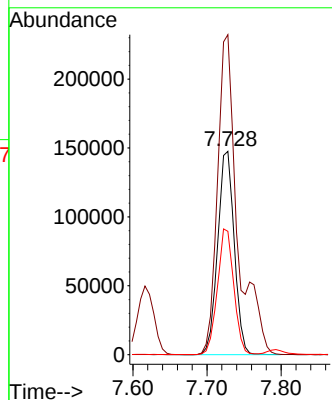
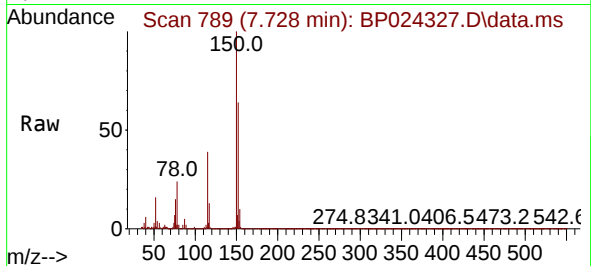




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.728 min Scan# 71  
 Delta R.T. 0.000 min  
 Lab File: BP024327.D  
 Acq: 17 Apr 2025 15:20

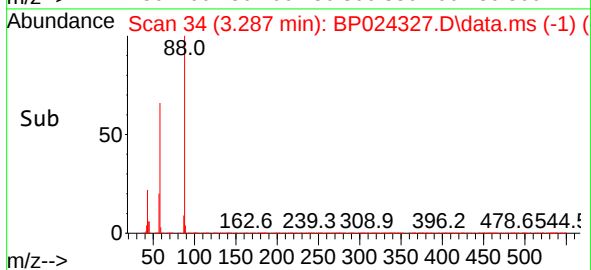
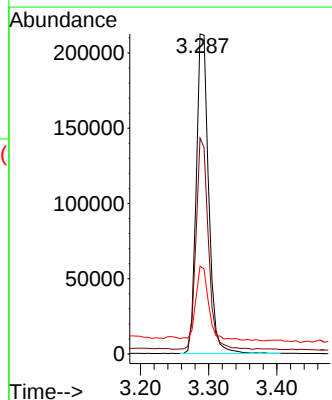
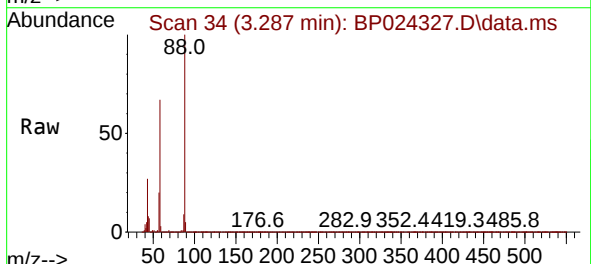
Instrument :  
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 SOIL-CUTTINGMS

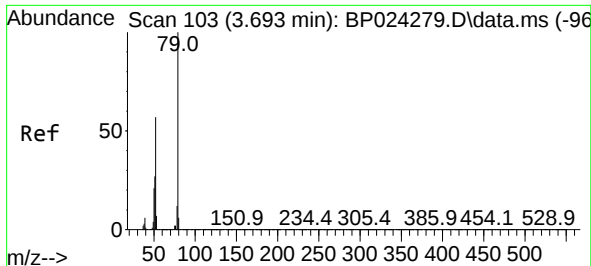
Tgt Ion:152 Resp: 229439  
 Ion Ratio Lower Upper  
 152 100  
 150 157.3 124.9 187.3  
 115 60.7 47.7 71.5



#2  
 1,4-Dioxane  
 Concen: 45.432 ng  
 RT: 3.287 min Scan# 34  
 Delta R.T. -0.006 min  
 Lab File: BP024327.D  
 Acq: 17 Apr 2025 15:20

Tgt Ion: 88 Resp: 266659  
 Ion Ratio Lower Upper  
 88 100  
 58 65.5 51.4 77.2  
 43 23.5 17.1 25.7

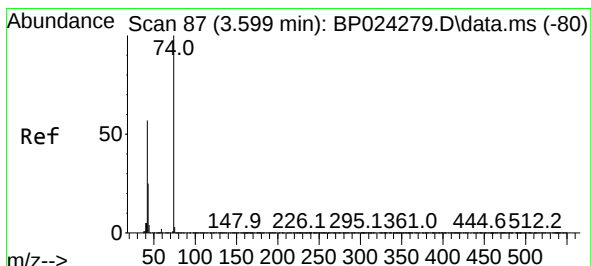
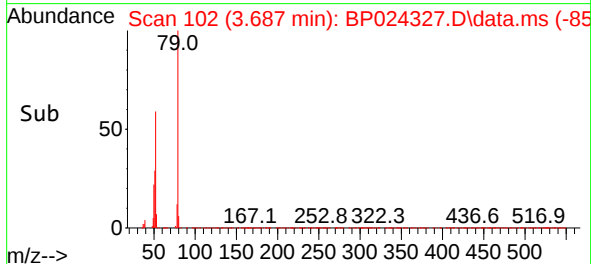
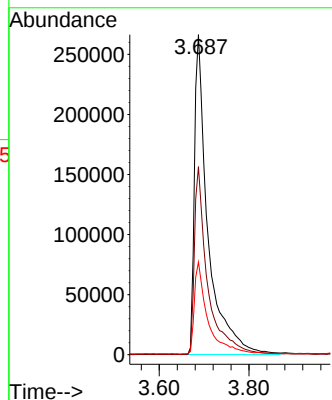
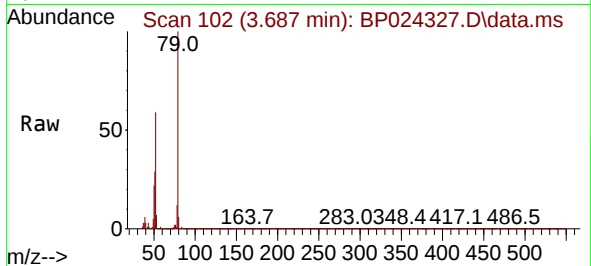




#3  
Pyridine  
Concen: 35.928 ng  
RT: 3.687 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

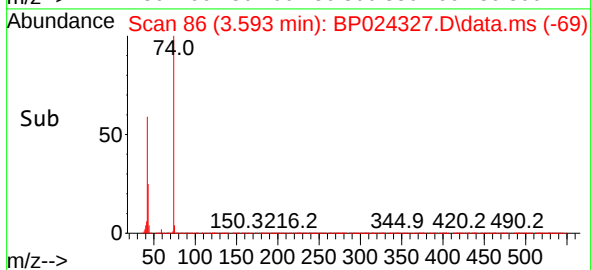
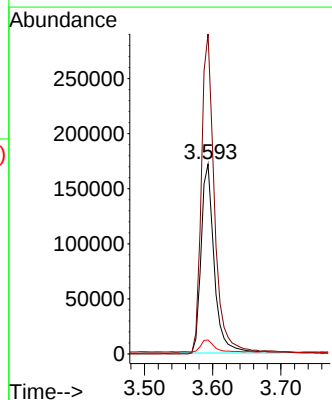
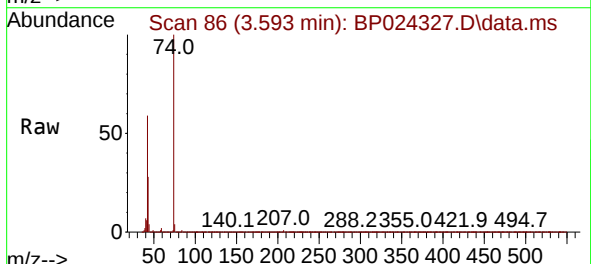
Instrument :  
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ClientSampleId :  
SOIL-CUTTINGMS

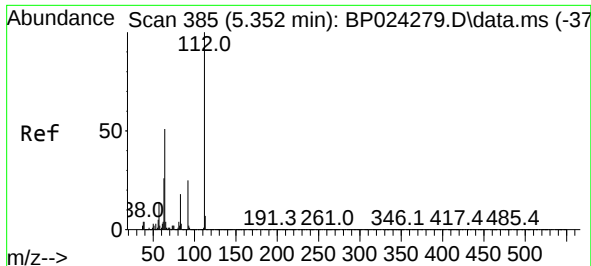
Tgt Ion: 79 Resp: 556836  
Ion Ratio Lower Upper  
79 100  
52 58.7 45.4 68.2  
51 28.9 22.6 33.8



#4  
n-Nitrosodimethylamine  
Concen: 44.788 ng  
RT: 3.593 min Scan# 86  
Delta R.T. 0.000 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 42 Resp: 230373  
Ion Ratio Lower Upper  
42 100  
74 168.7 139.5 209.3  
44 7.4 5.8 8.8

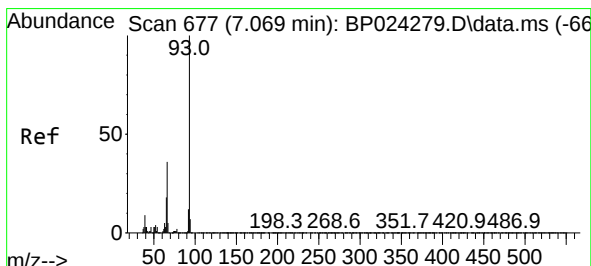
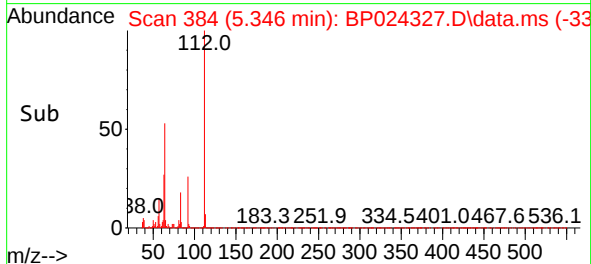
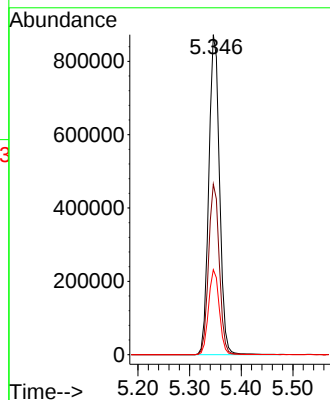
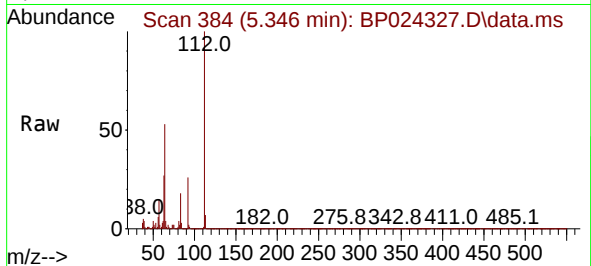




#5  
2-Fluorophenol  
Concen: 90.492 ng  
RT: 5.346 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

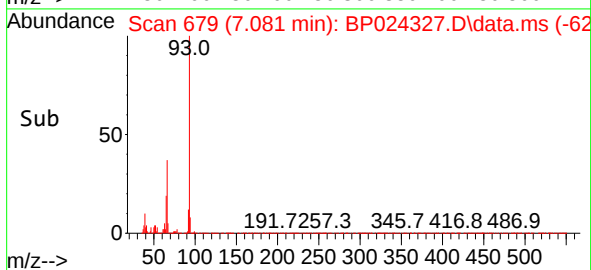
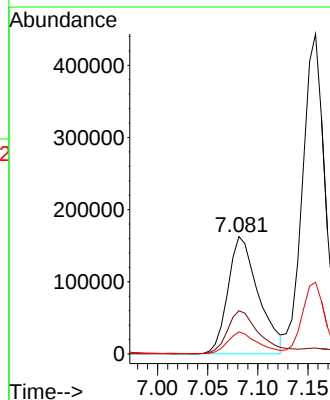
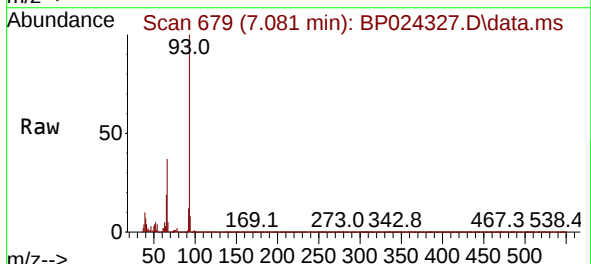
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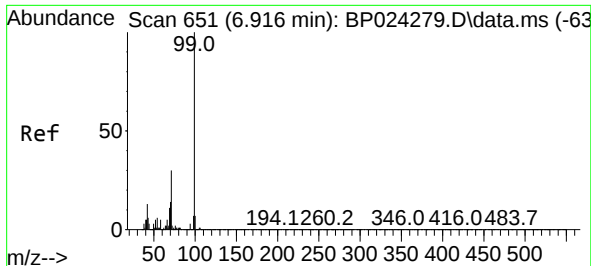
Tgt Ion:112 Resp: 1255693  
Ion Ratio Lower Upper  
112 100  
64 53.3 41.1 61.7  
63 26.6 20.6 30.8



#6  
Aniline  
Concen: 20.261 ng  
RT: 7.081 min Scan# 679  
Delta R.T. 0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 93 Resp: 344004  
Ion Ratio Lower Upper  
93 100  
66 36.8 29.1 43.7  
65 18.8 14.7 22.1

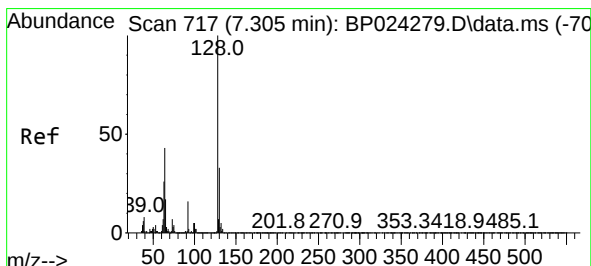
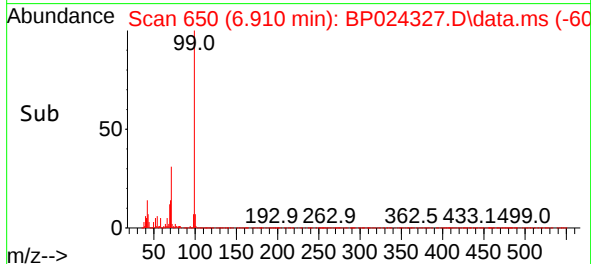
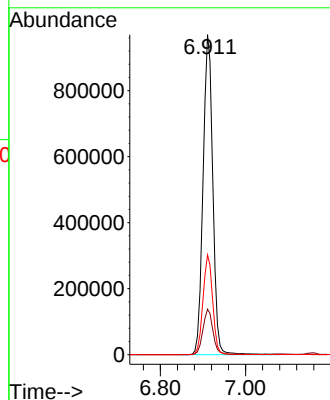
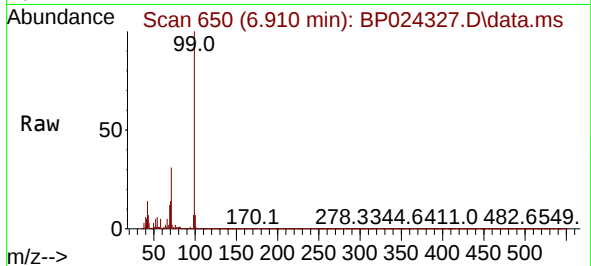




#7  
Phenol-d6  
Concen: 81.024 ng  
RT: 6.910 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

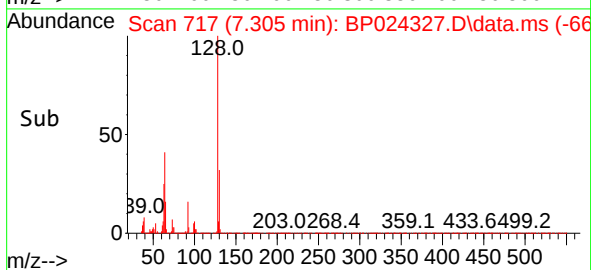
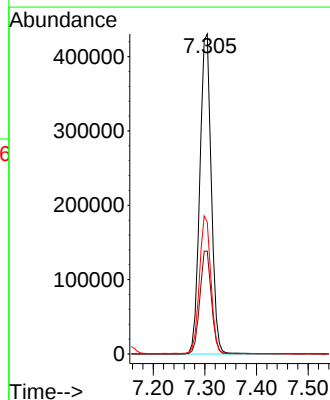
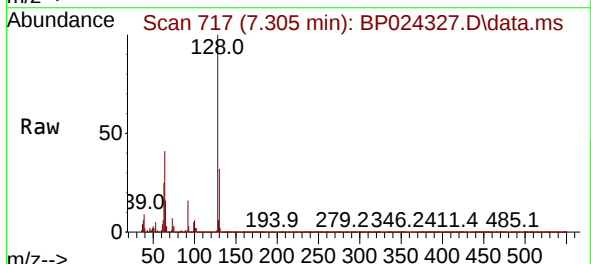
Instrument :  
BNA\_P  
ClientSampleId :  
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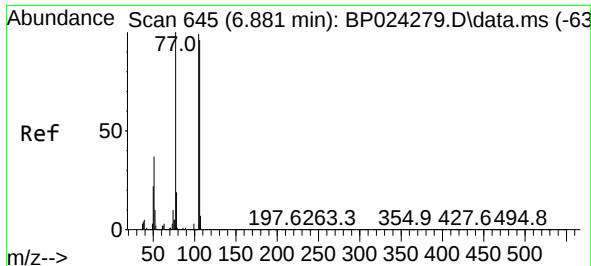
Tgt Ion: 99 Resp: 1539496  
Ion Ratio Lower Upper  
99 100  
42 14.2 10.6 16.0  
71 31.2 23.7 35.5



#8  
2-Chlorophenol  
Concen: 42.770 ng  
RT: 7.305 min Scan# 717  
Delta R.T. 0.000 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 128 Resp: 662621  
Ion Ratio Lower Upper  
128 100  
130 32.1 12.9 52.9  
64 41.2 22.7 62.7

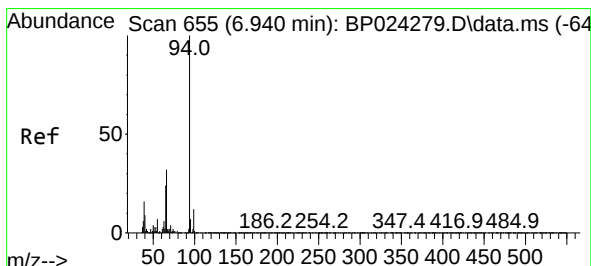
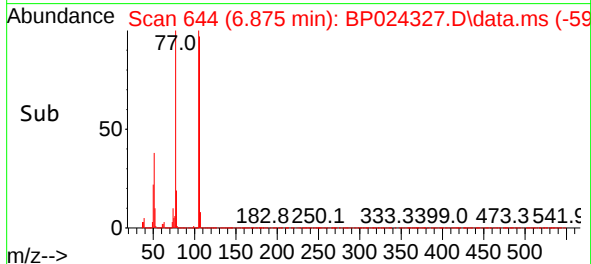
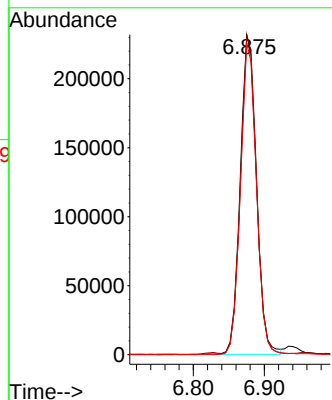
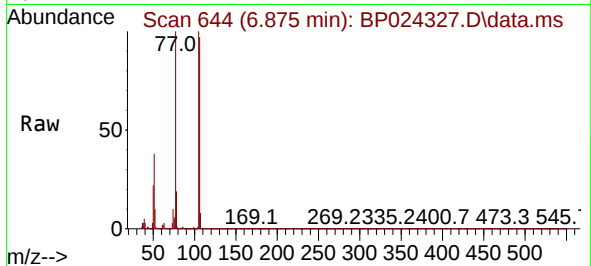




#9  
Benzaldehyde  
Concen: 39.094 ng  
RT: 6.875 min Scan# 645  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

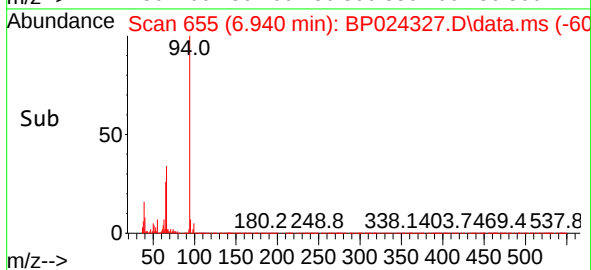
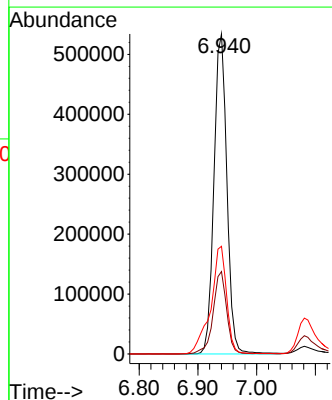
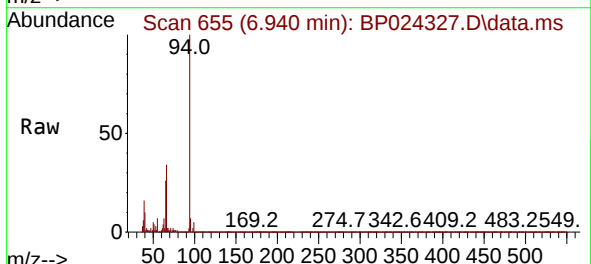
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

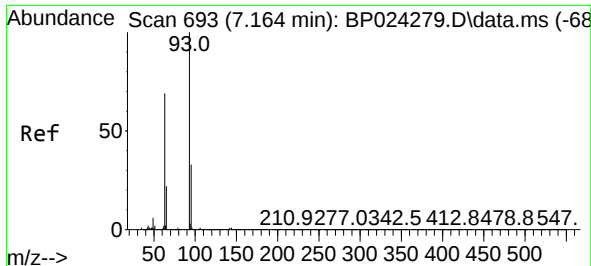
Tgt Ion: 77 Resp: 367442  
Ion Ratio Lower Upper  
77 100  
105 99.5 79.2 119.2  
106 97.4 76.2 116.2



#10  
Phenol  
Concen: 42.851 ng  
RT: 6.940 min Scan# 655  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 94 Resp: 816761  
Ion Ratio Lower Upper  
94 100  
65 25.8 4.5 44.5  
66 33.7 12.4 52.4

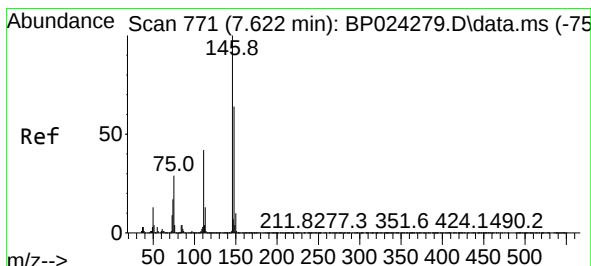
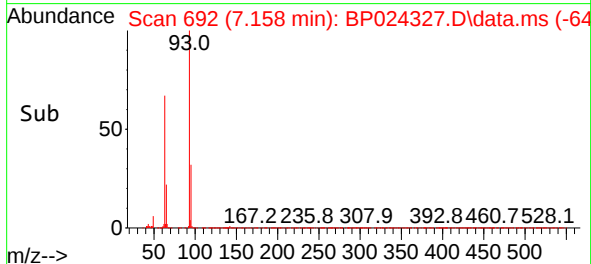
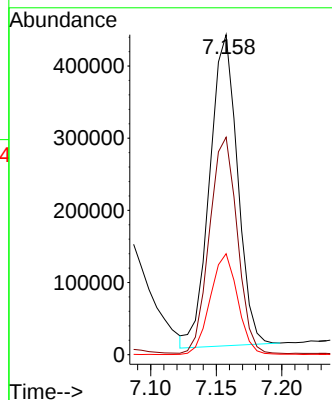
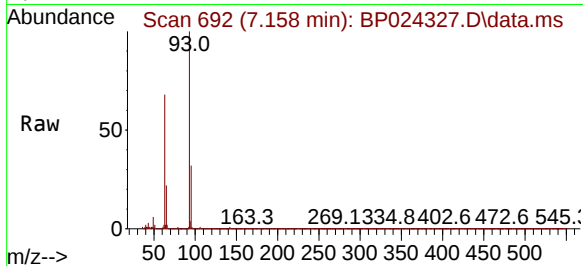




#11  
bis(2-Chloroethyl)ether  
Concen: 41.498 ng  
RT: 7.158 min Scan# 693  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

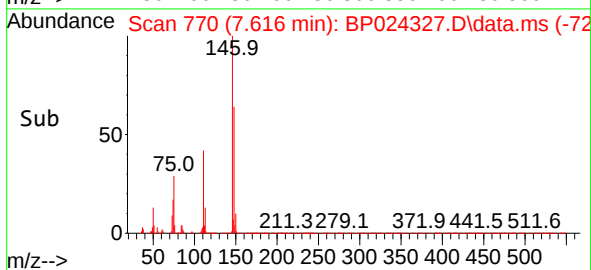
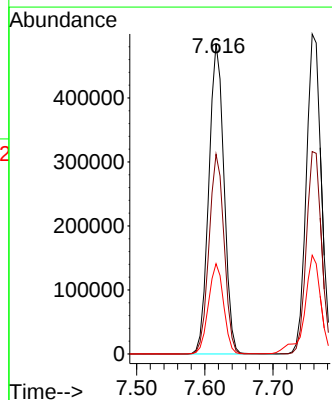
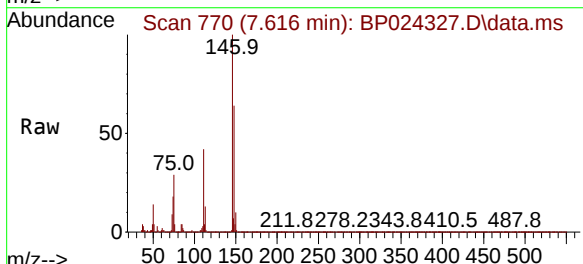
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

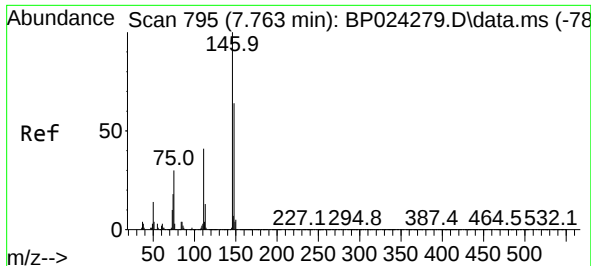
Tgt Ion: 93 Resp: 637297  
Ion Ratio Lower Upper  
93 100  
63 68.0 48.6 88.6  
95 31.6 12.3 52.3



#12  
1,3-Dichlorobenzene  
Concen: 44.948 ng  
RT: 7.616 min Scan# 770  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:146 Resp: 749699  
Ion Ratio Lower Upper  
146 100  
148 64.3 51.4 77.0  
75 29.1 22.9 34.3

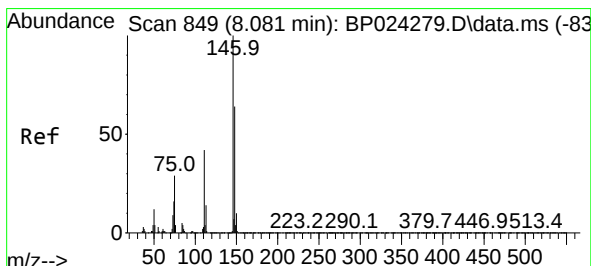
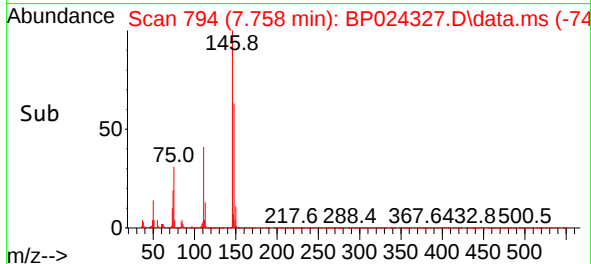
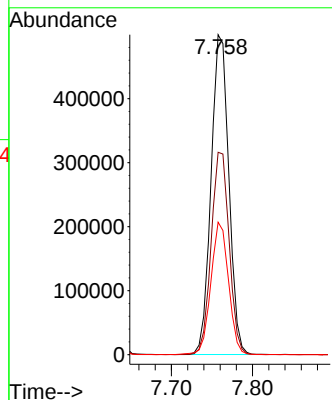
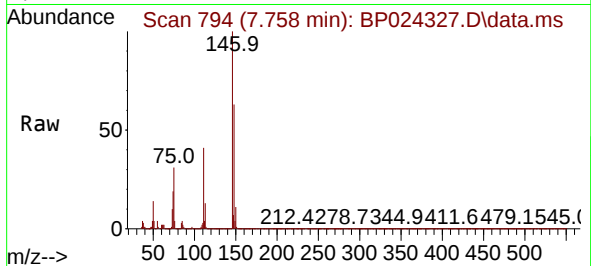




#13  
1,4-Dichlorobenzene  
Concen: 44.809 ng  
RT: 7.758 min Scan# 794  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

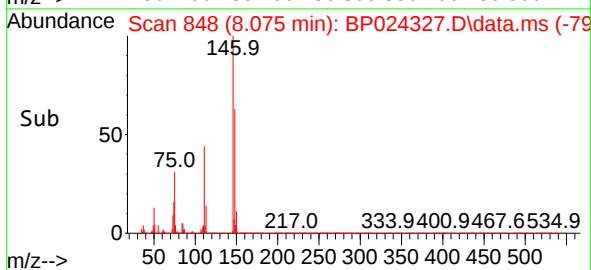
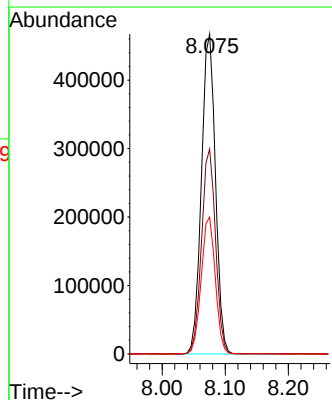
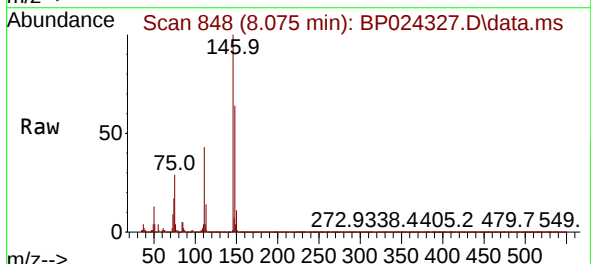
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

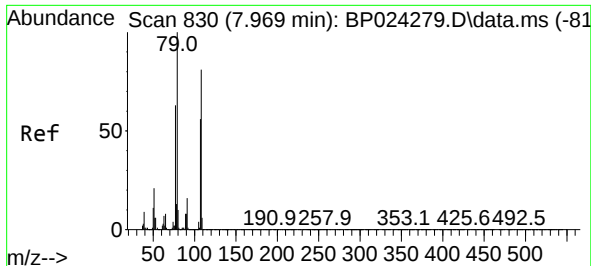
Tgt Ion:146 Resp: 758300  
Ion Ratio Lower Upper  
146 100  
148 63.2 51.1 76.7  
111 41.4 32.6 48.8



#14  
1,2-Dichlorobenzene  
Concen: 43.993 ng  
RT: 8.075 min Scan# 848  
Delta R.T. 0.000 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:146 Resp: 718898  
Ion Ratio Lower Upper  
146 100  
148 64.0 51.0 76.4  
111 42.8 33.8 50.8

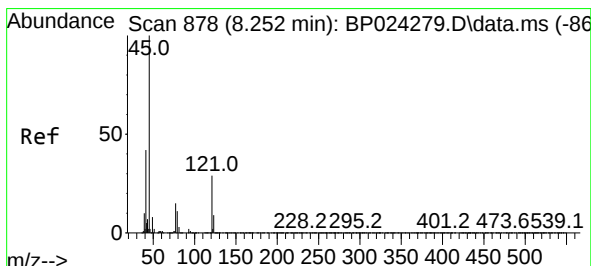
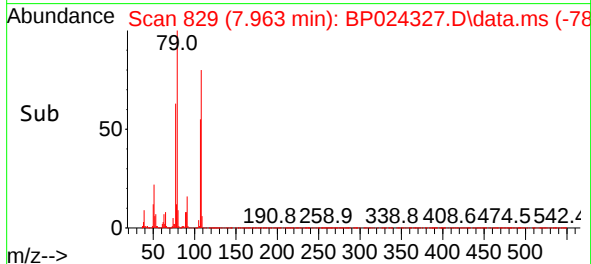
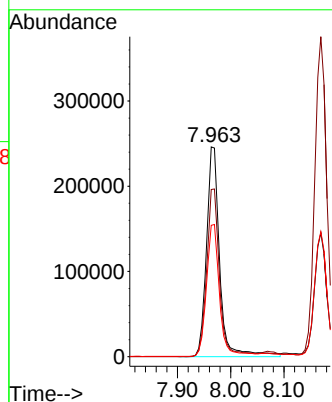
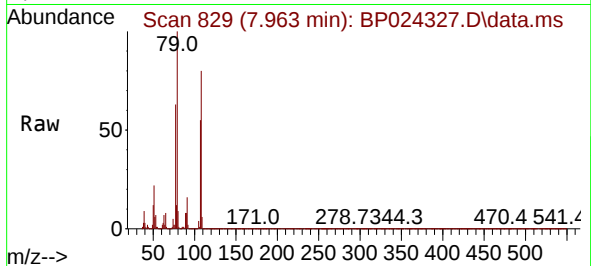




#15  
Benzyl Alcohol  
Concen: 34.522 ng  
RT: 7.963 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

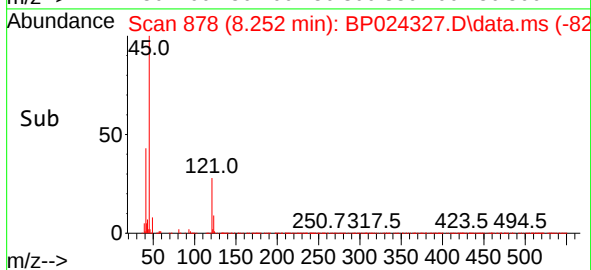
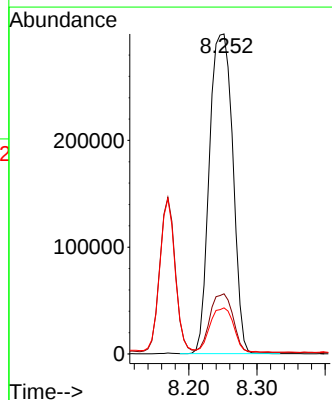
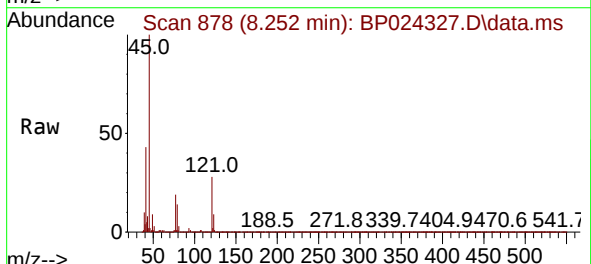
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

Tgt Ion: 79 Resp: 424192  
Ion Ratio Lower Upper  
79 100  
108 79.7 65.1 97.7  
77 62.6 50.7 76.1



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 42.957 ng  
RT: 8.252 min Scan# 878  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 45 Resp: 713066  
Ion Ratio Lower Upper  
45 100  
77 18.8 0.0 37.7  
79 14.4 0.0 33.5

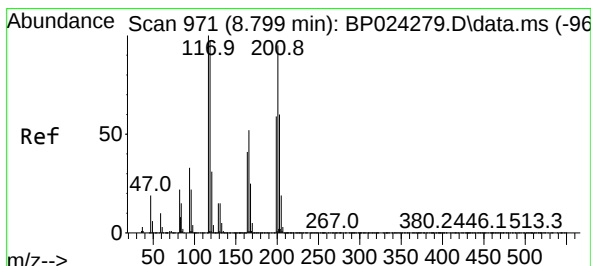
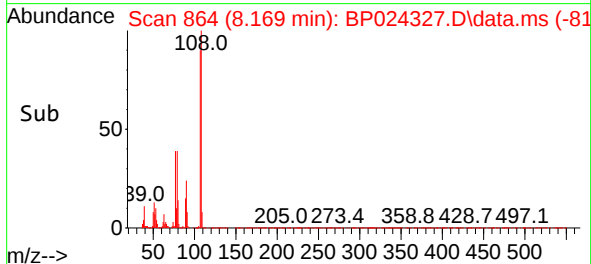
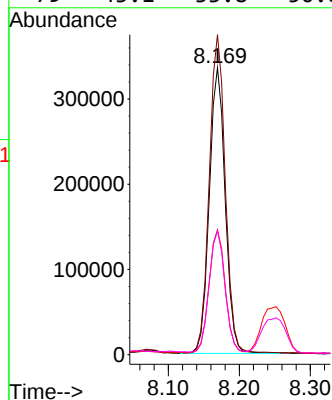
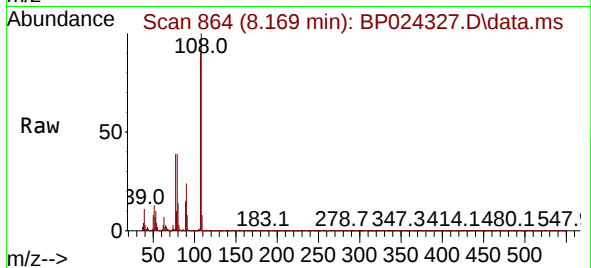




#17  
2-Methylphenol  
Concen: 42.262 ng  
RT: 8.169 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

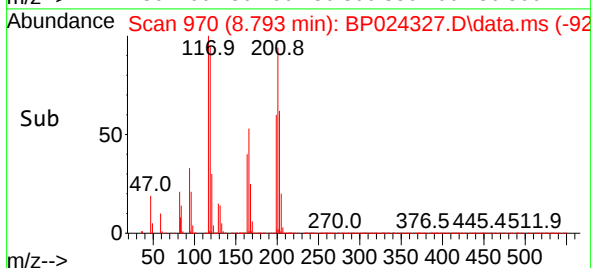
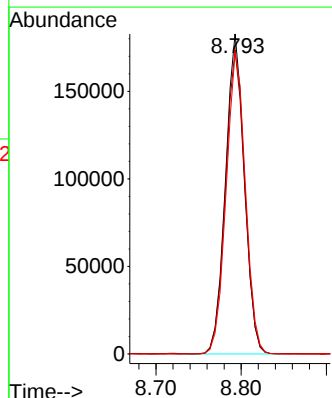
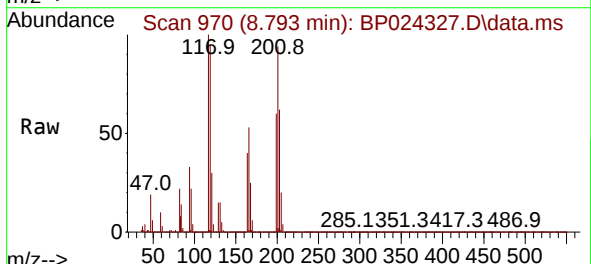
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 521104 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 111.5 | 89.8  | 134.6  |
| 77       | 43.5  | 34.2  | 51.4   |
| 79       | 43.1  | 33.8  | 50.8   |



#18  
Hexachloroethane  
Concen: 46.028 ng  
RT: 8.793 min Scan# 970  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 281497 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 95.0  | 77.8  | 116.6  |
| 201      | 94.2  | 75.9  | 113.9  |



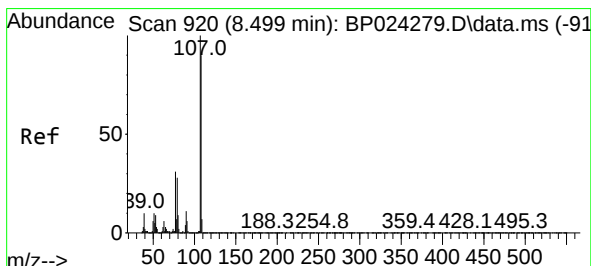
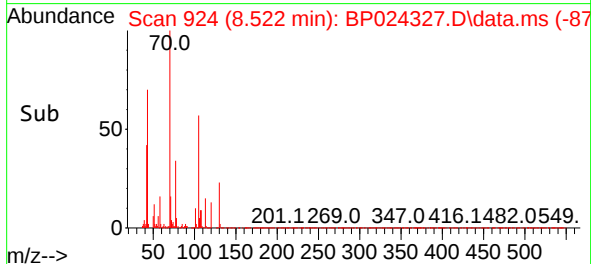
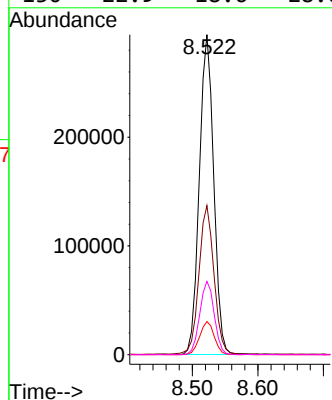
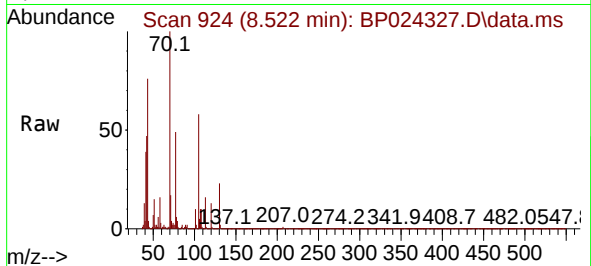


#19  
n-Nitroso-di-n-propylamine  
Concen: 38.267 ng  
RT: 8.522 min Scan# 919  
Delta R.T. -0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

Tgt Ion: 70 Resp: 449824

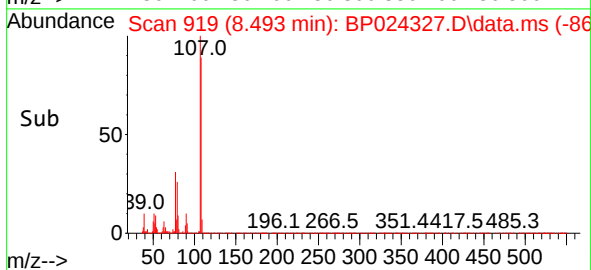
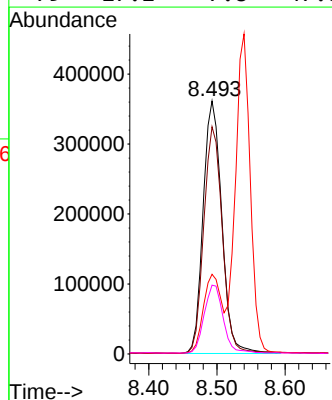
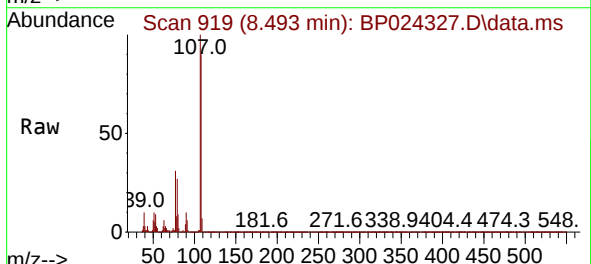
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 46.6  | 37.3  | 55.9  |
| 101 | 10.3  | 8.2   | 12.4  |
| 130 | 22.9  | 18.6  | 28.0  |

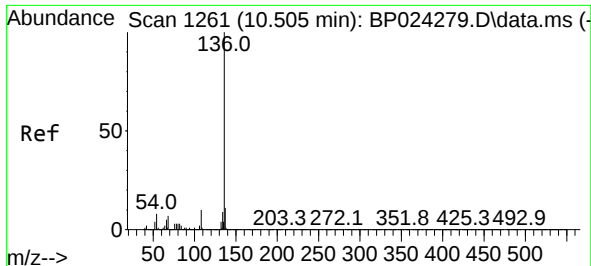


#20  
3+4-Methylphenols  
Concen: 40.250 ng  
RT: 8.493 min Scan# 919  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 107 Resp: 688635

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 107 | 100   |       |       |
| 108 | 89.8  | 69.8  | 109.8 |
| 77  | 31.5  | 11.5  | 51.5  |
| 79  | 27.2  | 7.8   | 47.8  |

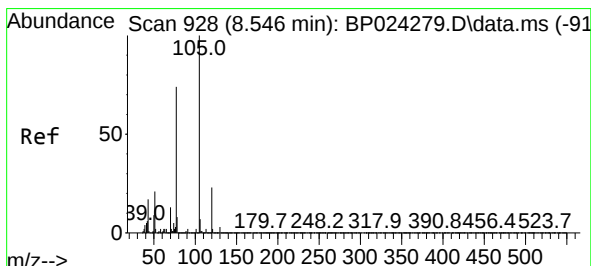
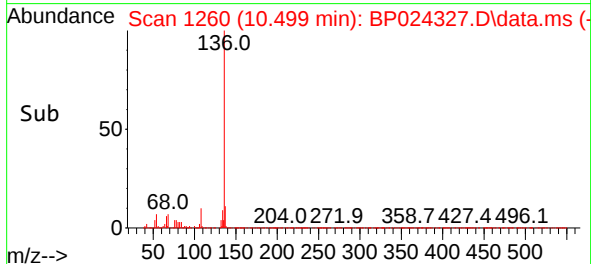
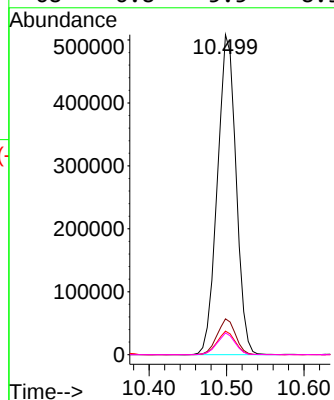
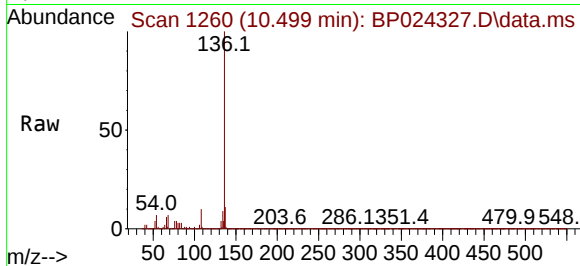




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.499 min Scan# 1260  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

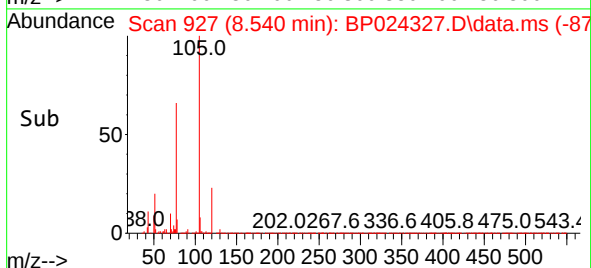
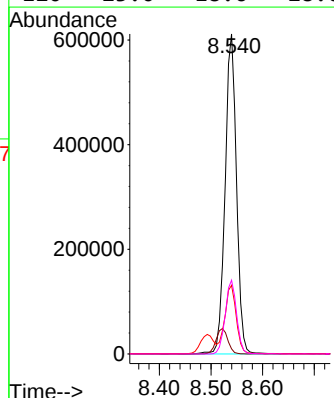
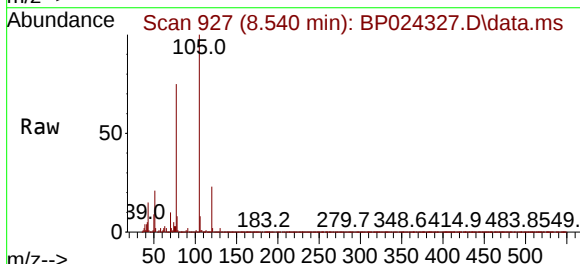
Instrument :  
BNA\_P  
ClientSampleId :  
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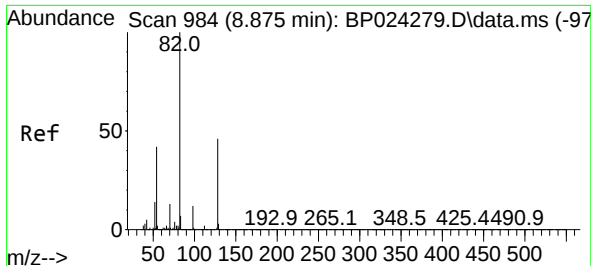
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 851922 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.2   | 13.8   |
| 54       | 7.3   | 6.0   | 9.0    |
| 68       | 6.8   | 5.5   | 8.3    |



#22  
Acetophenone  
Concen: 44.317 ng  
RT: 8.540 min Scan# 927  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 934460 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 71       | 1.6   | 1.7   | 2.5    |
| 51       | 21.5  | 16.9  | 25.3   |
| 120      | 23.0  | 18.6  | 28.0   |

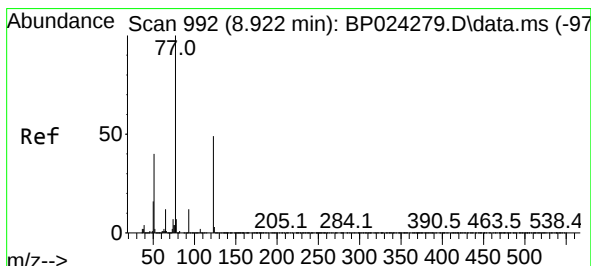
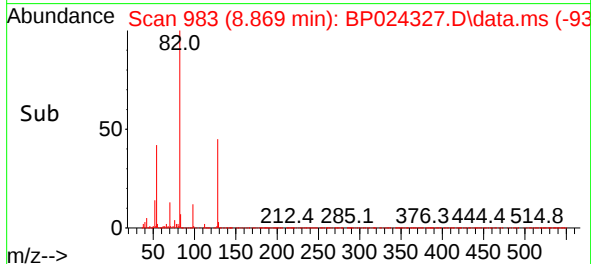
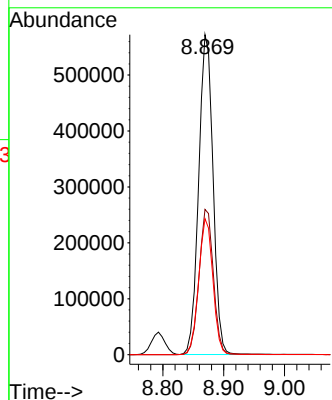
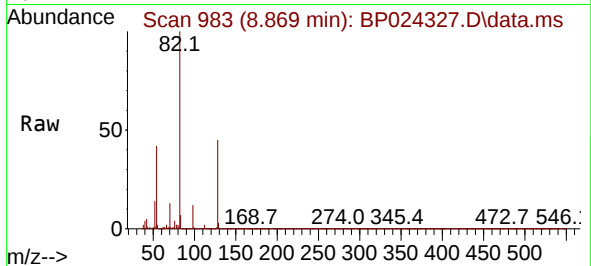




#23  
Nitrobenzene-d5  
Concen: 62.720 ng  
RT: 8.869 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

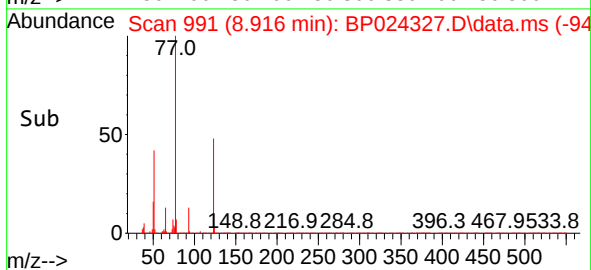
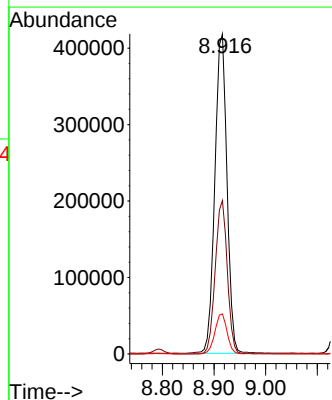
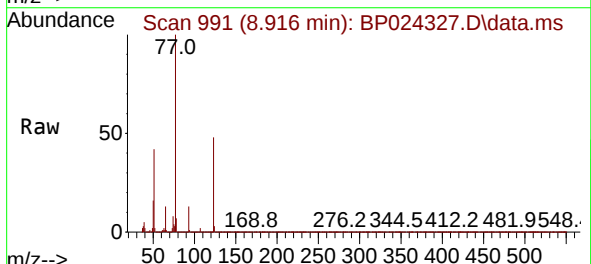
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

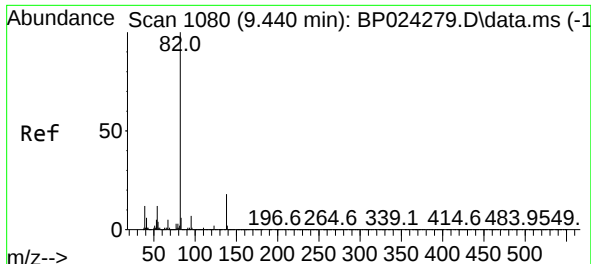
Tgt Ion: 82 Resp: 937064  
Ion Ratio Lower Upper  
82 100  
128 45.4 36.5 54.7  
54 42.5 33.4 50.2



#24  
Nitrobenzene  
Concen: 46.106 ng  
RT: 8.916 min Scan# 991  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 77 Resp: 681436  
Ion Ratio Lower Upper  
77 100  
123 47.9 39.2 58.8  
65 12.5 9.8 14.6

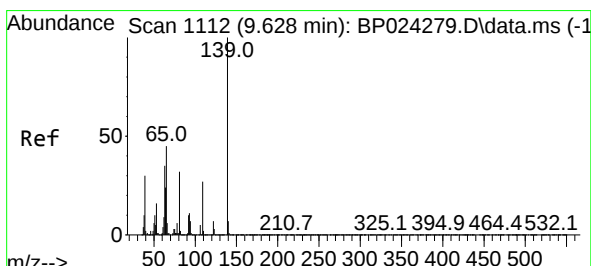
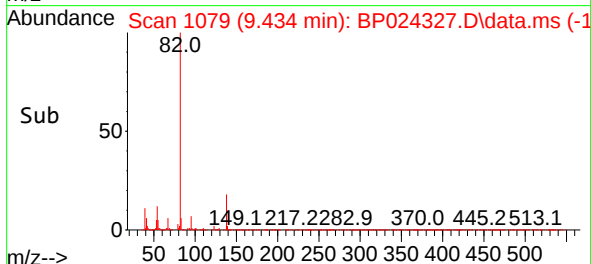
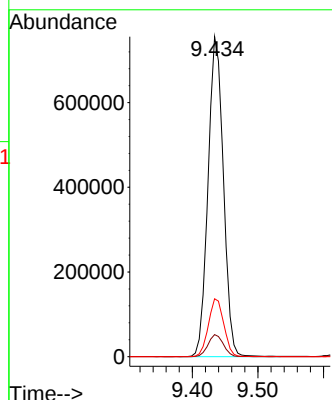
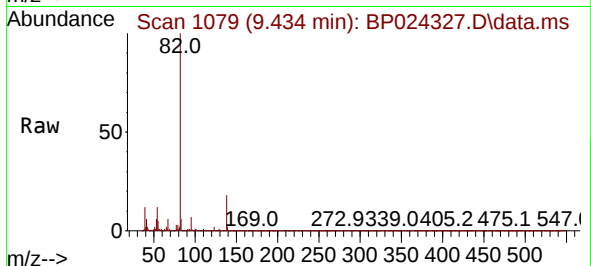




#25  
Isophorone  
Concen: 45.488 ng  
RT: 9.434 min Scan# 1080  
Delta R.T. -0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

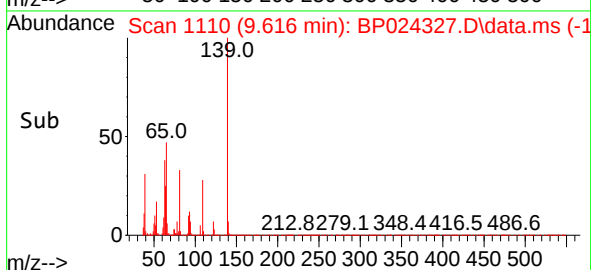
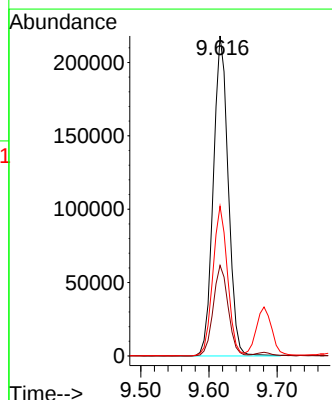
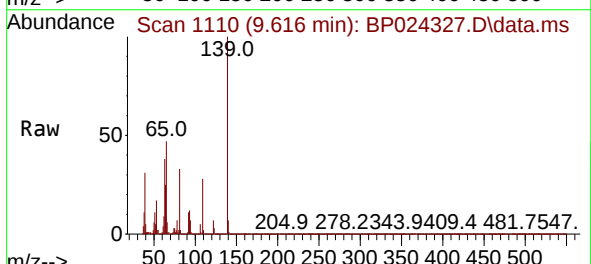
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

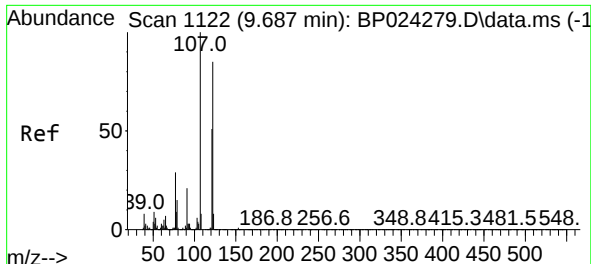
Tgt Ion: 82 Resp: 1230155  
Ion Ratio Lower Upper  
82 100  
95 6.9 5.4 8.2  
138 18.1 14.4 21.6



#26  
2-Nitrophenol  
Concen: 46.038 ng  
RT: 9.616 min Scan# 1110  
Delta R.T. -0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 139 Resp: 332987  
Ion Ratio Lower Upper  
139 100  
109 28.3 21.8 32.6  
65 46.8 36.2 54.2





#27

2,4-Dimethylphenol

Concen: 60.830 ng

RT: 9.681 min Scan# 1122

Delta R.T. -0.012 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

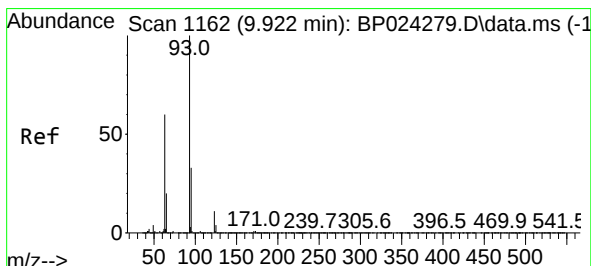
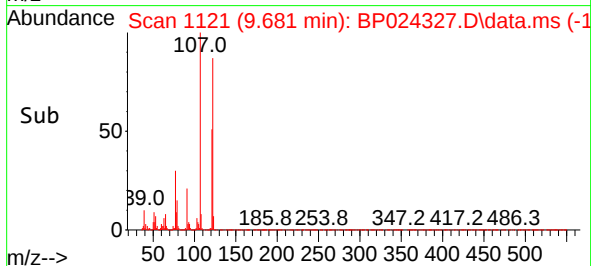
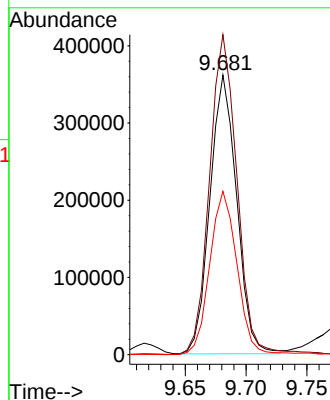
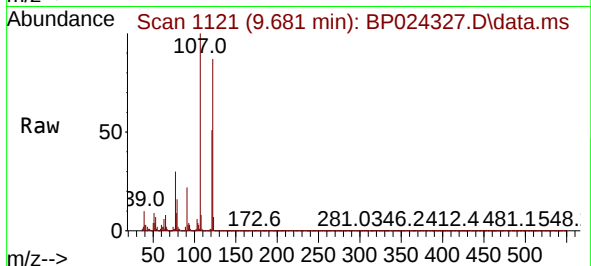
Tgt Ion:122 Resp: 552448

Ion Ratio Lower Upper

122 100

107 114.4 93.7 140.5

121 58.4 48.2 72.2



#28

bis(2-Chloroethoxy)methane

Concen: 42.687 ng

RT: 9.910 min Scan# 1160

Delta R.T. -0.012 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

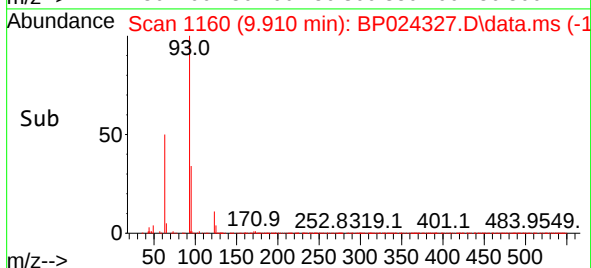
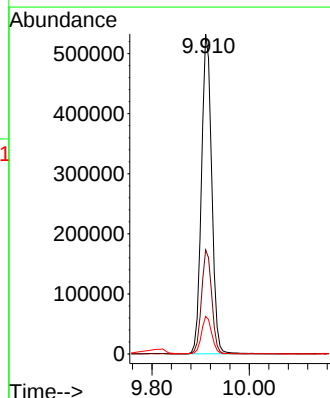
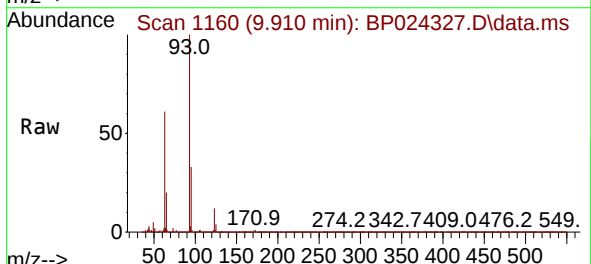
Tgt Ion: 93 Resp: 779833

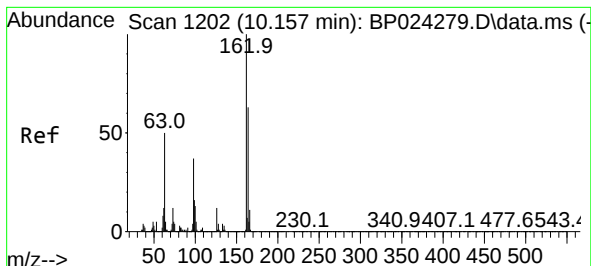
Ion Ratio Lower Upper

93 100

95 32.5 26.0 39.0

123 11.8 9.1 13.7

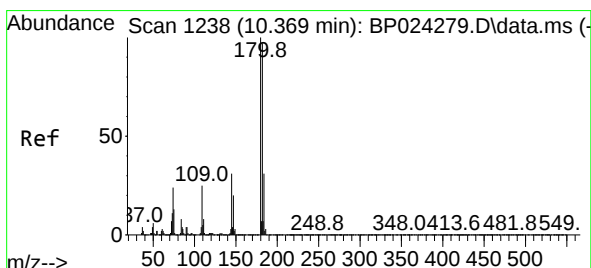
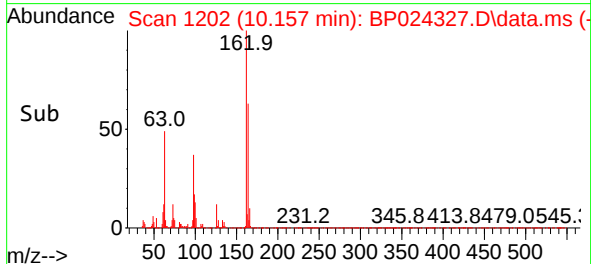
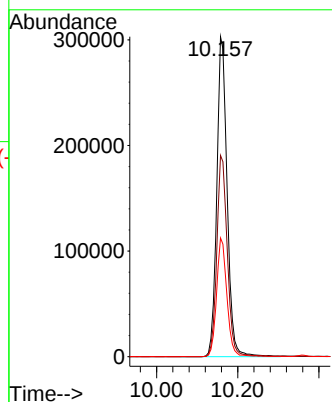
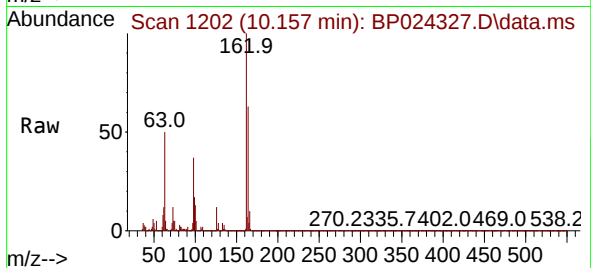




#29  
2,4-Dichlorophenol  
Concen: 43.204 ng  
RT: 10.157 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

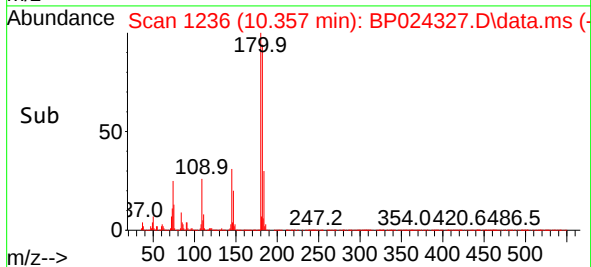
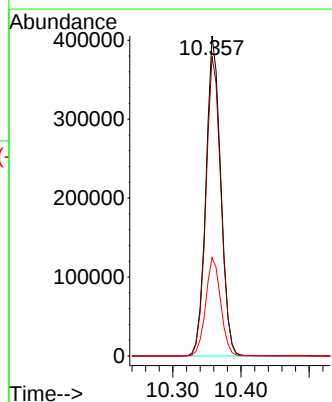
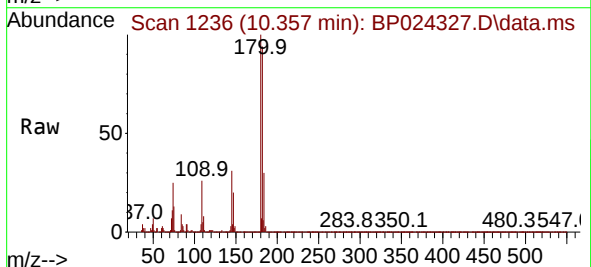
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

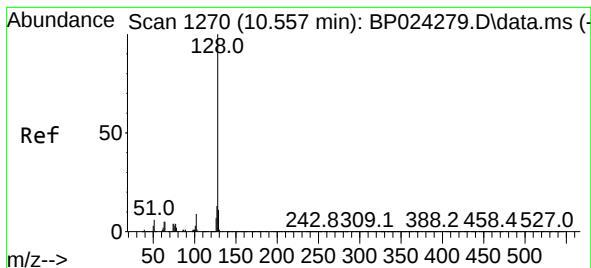
Tgt Ion:162 Resp: 535003  
Ion Ratio Lower Upper  
162 100  
164 62.9 43.3 83.3  
98 37.1 16.6 56.6



#30  
1,2,4-Trichlorobenzene  
Concen: 46.088 ng  
RT: 10.357 min Scan# 1236  
Delta R.T. -0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:180 Resp: 611468  
Ion Ratio Lower Upper  
180 100  
182 93.6 77.3 115.9  
145 30.8 25.1 37.7

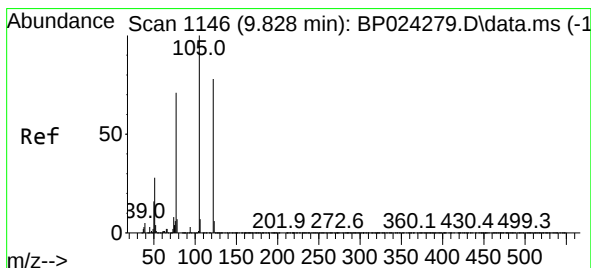
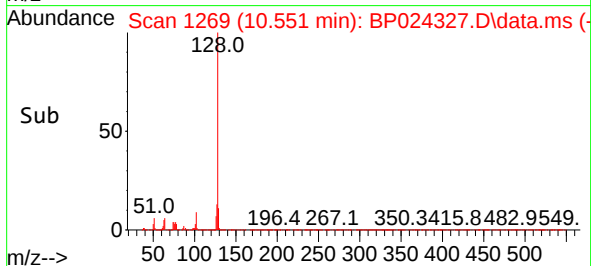
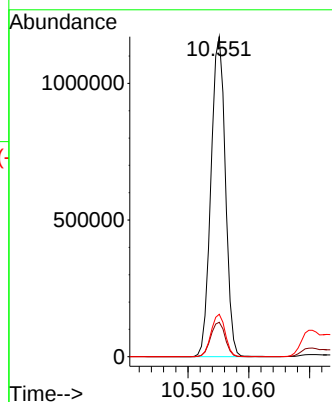
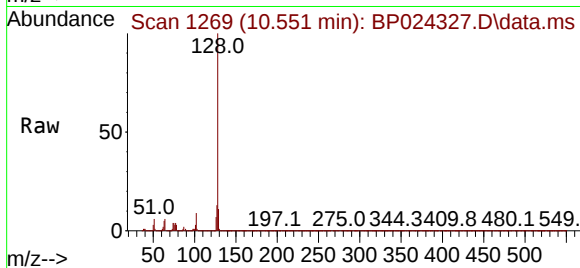




#31  
Naphthalene  
Concen: 42.839 ng  
RT: 10.551 min Scan# 1270  
Delta R.T. -0.006 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

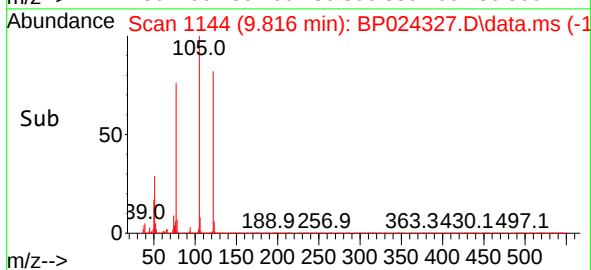
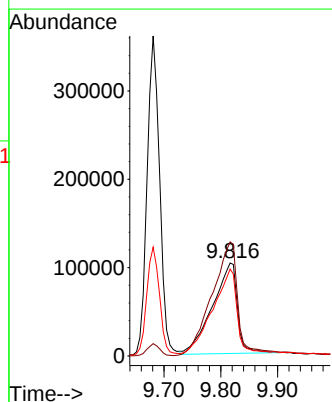
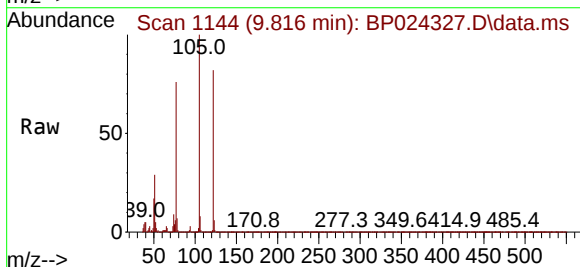
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

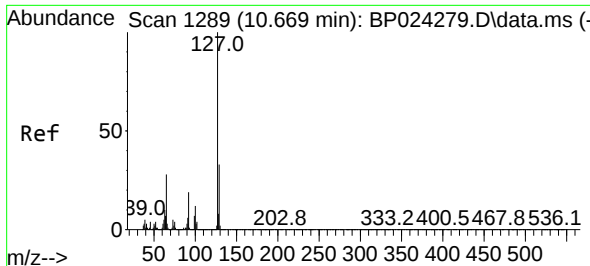
Tgt Ion:128 Resp: 1922443  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.6 13.0  
127 13.2 10.3 15.5



#32  
Benzoic acid  
Concen: 29.621 ng  
RT: 9.816 min Scan# 1144  
Delta R.T. -0.059 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:122 Resp: 313464  
Ion Ratio Lower Upper  
122 100  
105 122.7 104.8 144.8  
77 93.4 69.2 109.2



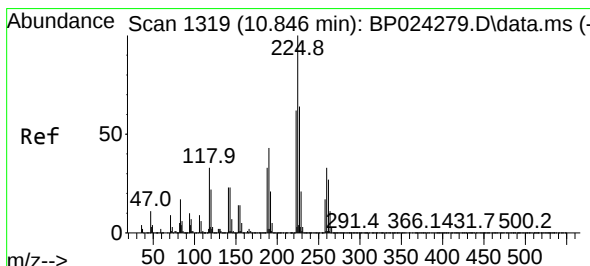
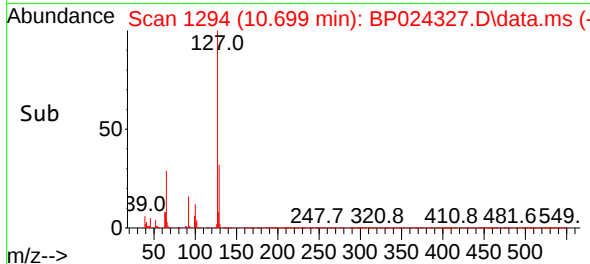
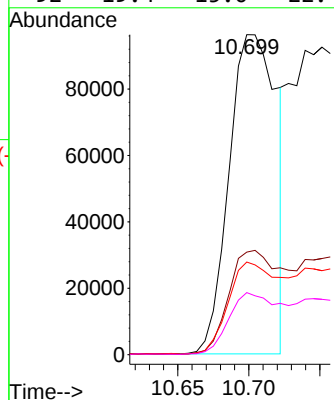
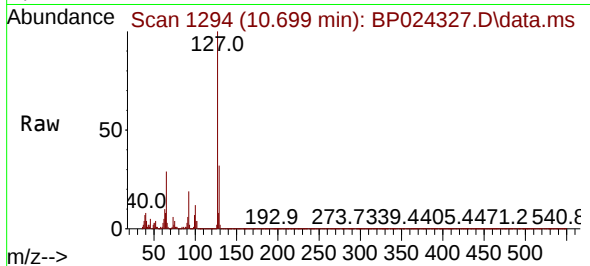


#33  
4-Chloroaniline  
Concen: 14.209 ng  
RT: 10.699 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

Tgt Ion:127 Resp: 224557

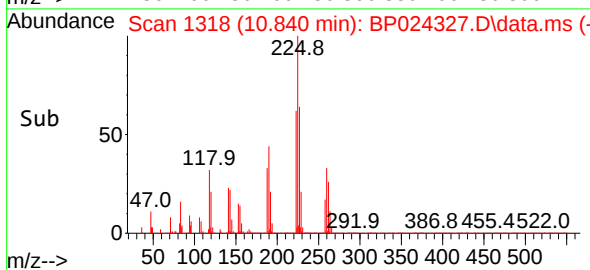
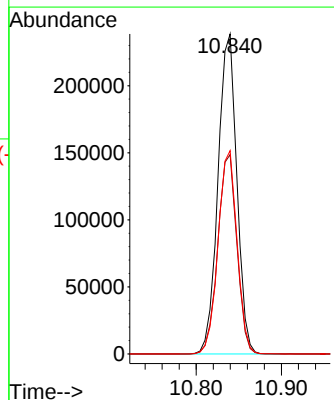
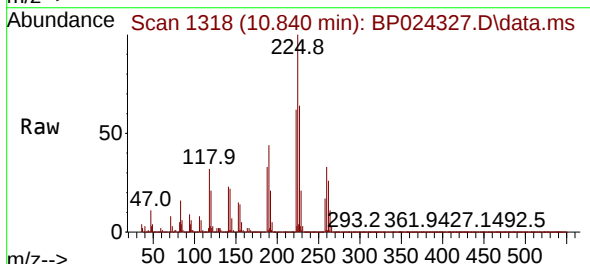
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 127 | 100   |       |       |
| 129 | 32.1  | 26.1  | 39.1  |
| 65  | 28.9  | 22.1  | 33.1  |
| 92  | 19.4  | 15.0  | 22.4  |

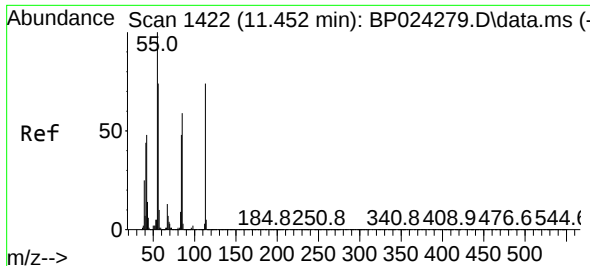


#34  
Hexachlorobutadiene  
Concen: 46.943 ng  
RT: 10.840 min Scan# 1318  
Delta R.T. 0.000 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:225 Resp: 365983

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 62.3  | 49.5  | 74.3  |
| 227 | 63.5  | 50.9  | 76.3  |

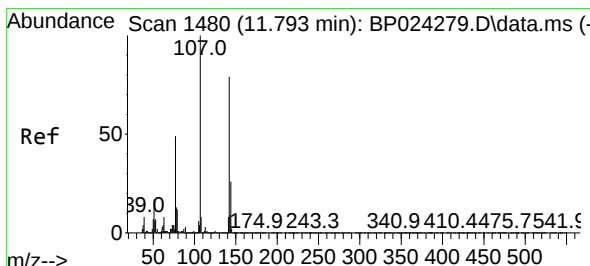
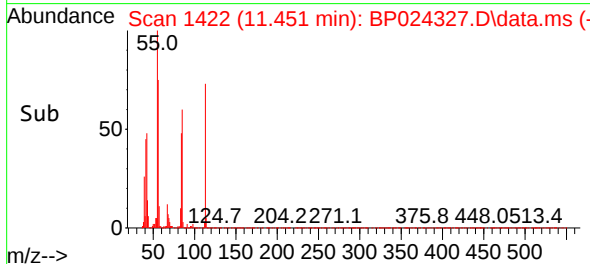
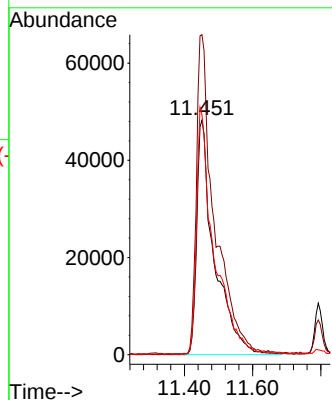
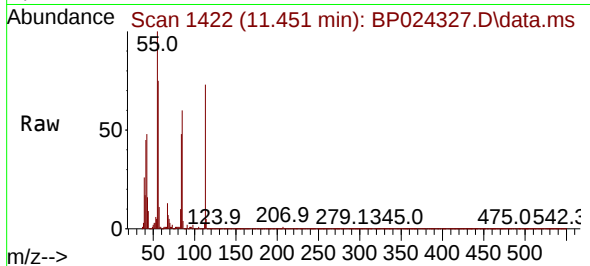




#35  
Caprolactam  
Concen: 37.689 ng  
RT: 11.451 min Scan# 1422  
Delta R.T. -0.029 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

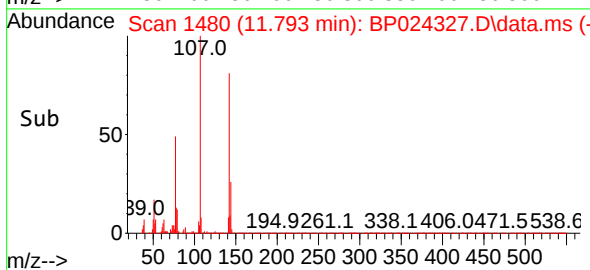
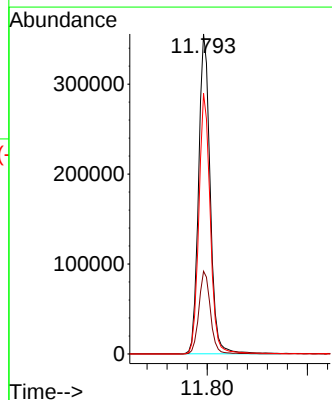
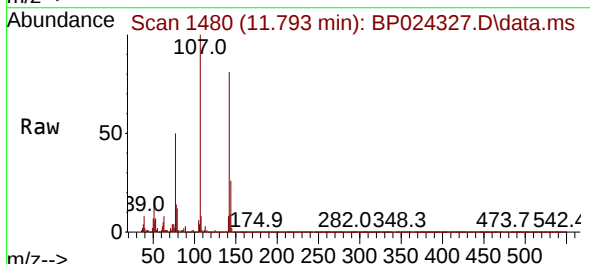
Instrument :  
BNA\_P  
ClientSampleId :  
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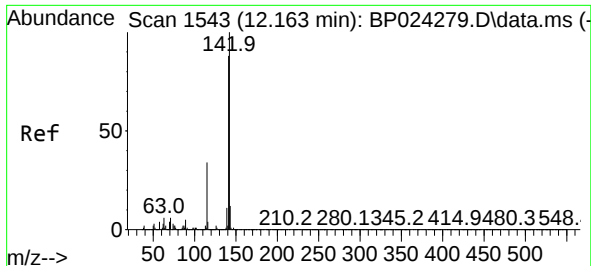
Tgt Ion:113 Resp: 172203  
Ion Ratio Lower Upper  
113 100  
55 136.6 115.9 155.9  
56 102.3 81.1 121.1



#36  
4-Chloro-3-methylphenol  
Concen: 39.374 ng  
RT: 11.793 min Scan# 1480  
Delta R.T. -0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:107 Resp: 567905  
Ion Ratio Lower Upper  
107 100  
144 25.9 20.5 30.7  
142 81.4 63.4 95.2

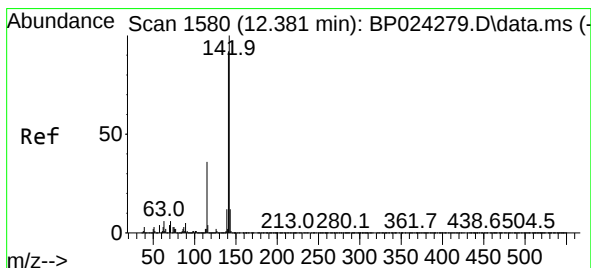
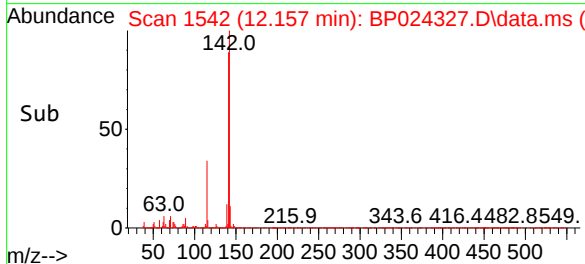
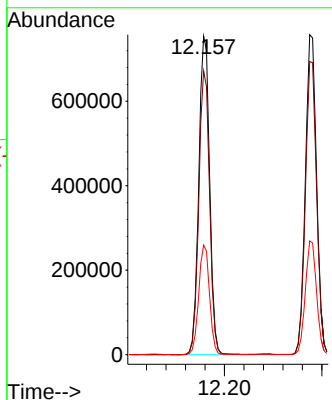
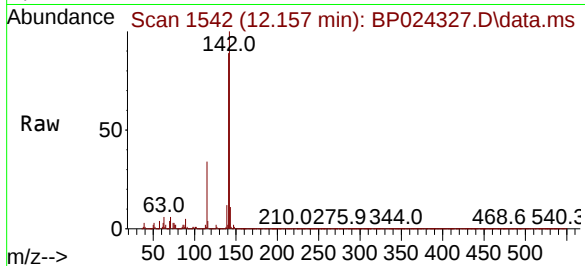




#37  
2-Methylnaphthalene  
Concen: 37.519 ng  
RT: 12.157 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

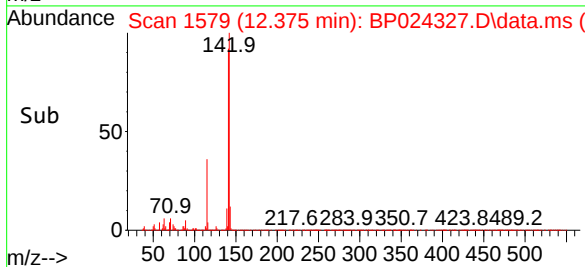
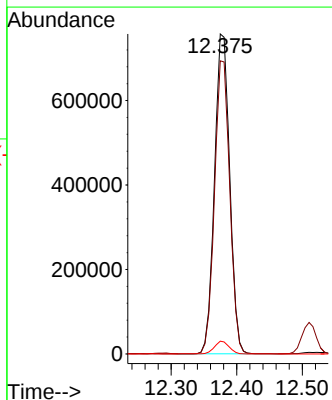
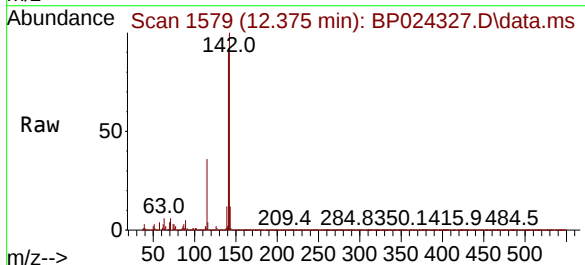
Instrument :  
BNA\_P  
ClientSampleId :  
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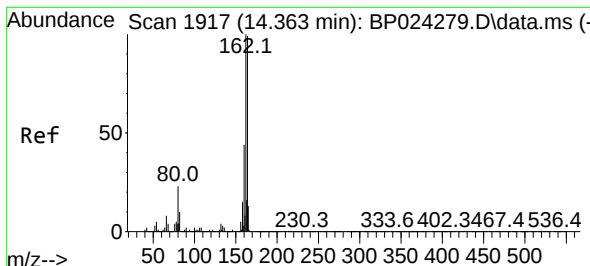
Tgt Ion:142 Resp: 1167687  
Ion Ratio Lower Upper  
142 100  
141 89.1 70.3 105.5  
115 34.4 26.9 40.3



#38  
1-Methylnaphthalene  
Concen: 39.908 ng  
RT: 12.375 min Scan# 1579  
Delta R.T. -0.018 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:142 Resp: 1215065  
Ion Ratio Lower Upper  
142 100  
141 91.6 73.6 110.4  
116 4.0 3.0 4.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.351 min Scan# 1915

Delta R.T. -0.018 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

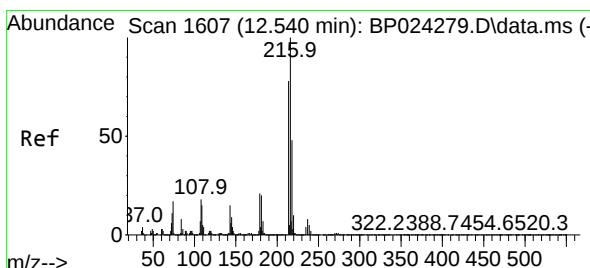
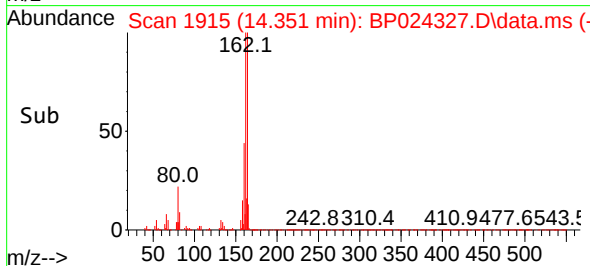
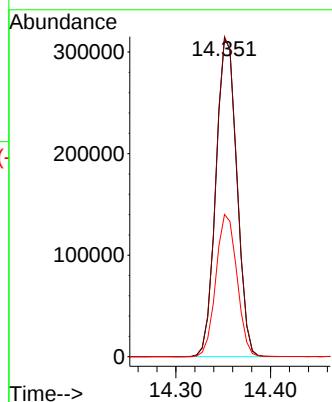
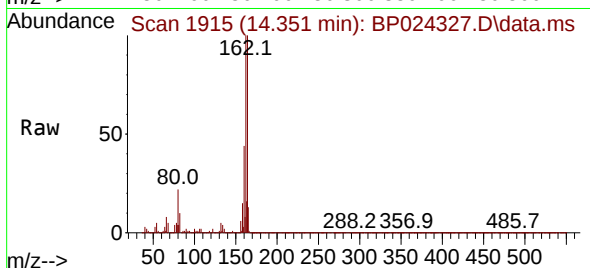
Tgt Ion:164 Resp: 480975

Ion Ratio Lower Upper

164 100

162 100.4 80.6 120.8

160 44.6 35.3 52.9



#40

1,2,4,5-Tetrachlorobenzene

Concen: 47.151 ng

RT: 12.528 min Scan# 1605

Delta R.T. -0.018 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Tgt Ion:216 Resp: 623657

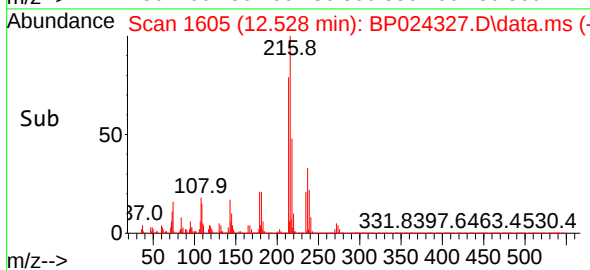
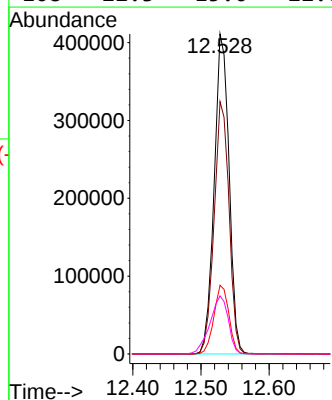
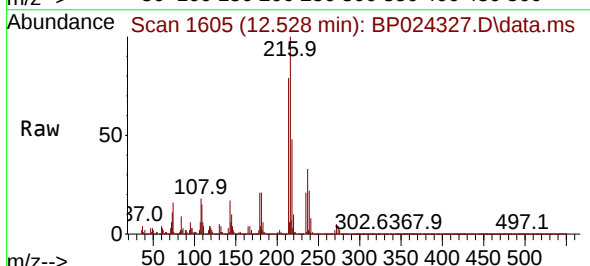
Ion Ratio Lower Upper

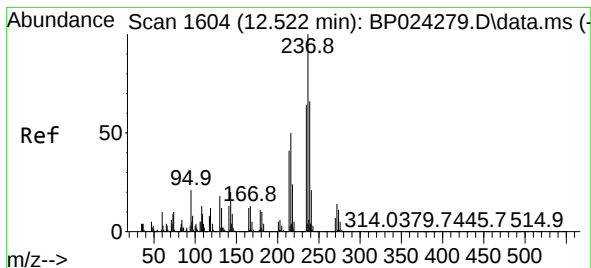
216 100

214 79.3 62.6 93.8

179 21.6 17.2 25.8

108 22.3 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 191.461 ng

RT: 12.510 min Scan# 1

Delta R.T. -0.018 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

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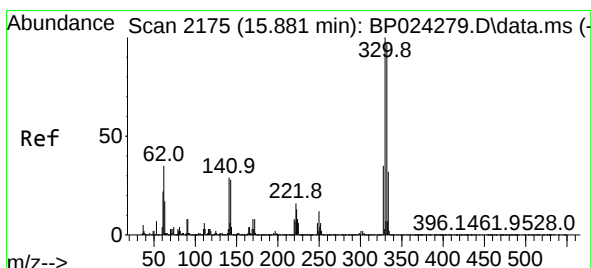
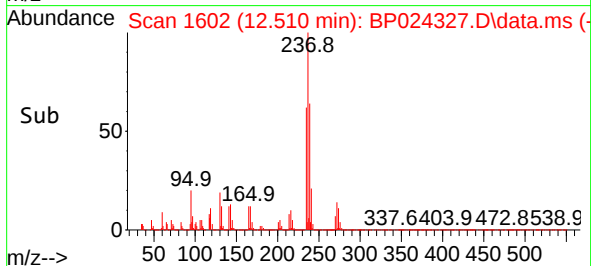
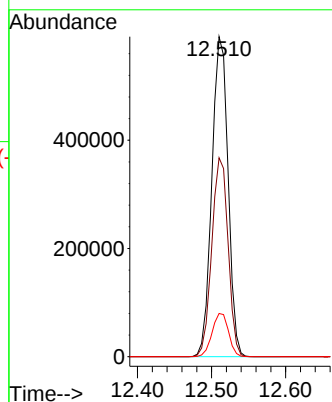
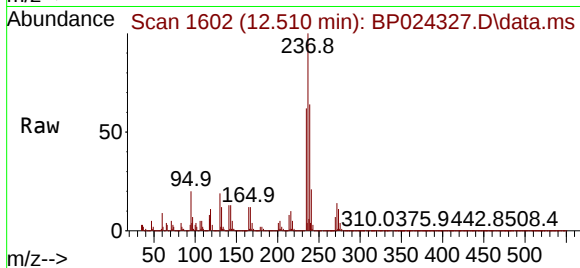
Tgt Ion:237 Resp: 895651

Ion Ratio Lower Upper

237 100

235 62.2 43.9 83.9

272 13.5 0.0 33.6



#42

2,4,6-Tribromophenol

Concen: 84.051 ng

RT: 15.869 min Scan# 2173

Delta R.T. -0.023 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

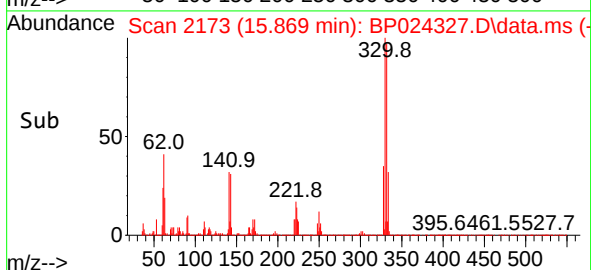
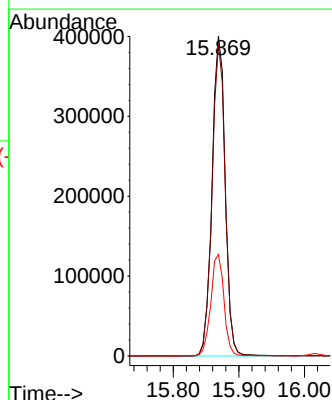
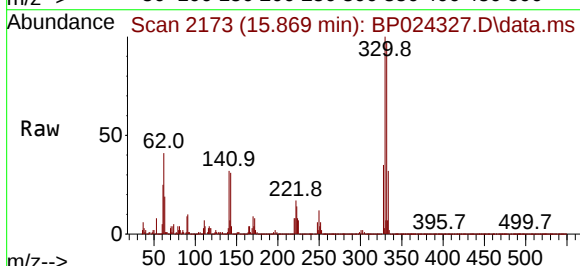
Tgt Ion:330 Resp: 559320

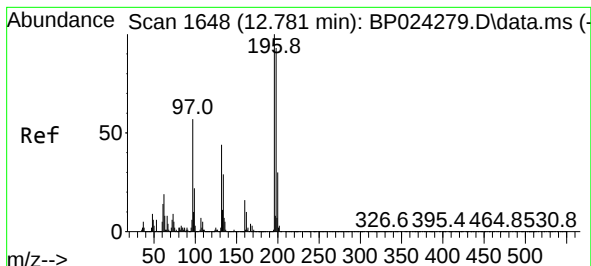
Ion Ratio Lower Upper

330 100

332 96.8 77.1 115.7

141 31.9 24.7 37.1





#43

2,4,6-Trichlorophenol

Concen: 45.743 ng

RT: 12.775 min Scan# 1

Delta R.T. -0.012 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

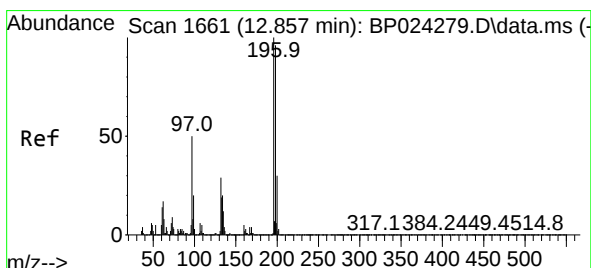
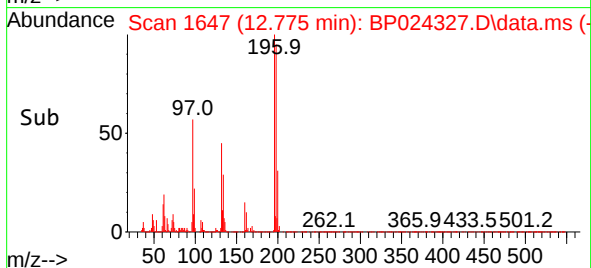
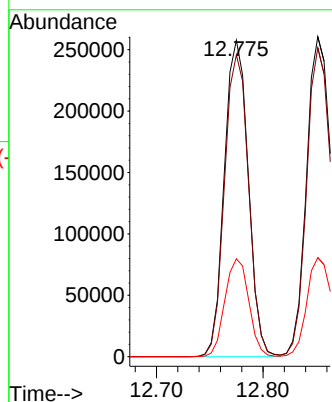
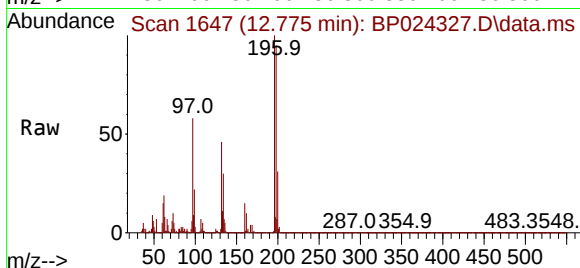
Tgt Ion:196 Resp: 402264

Ion Ratio Lower Upper

196 100

198 95.4 74.3 111.5

200 30.9 24.0 36.0



#44

2,4,5-Trichlorophenol

Concen: 44.704 ng

RT: 12.851 min Scan# 1660

Delta R.T. -0.018 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Tgt Ion:196 Resp: 435330

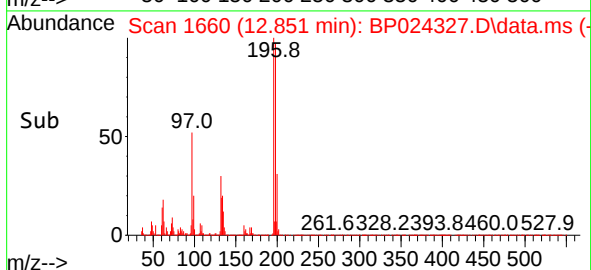
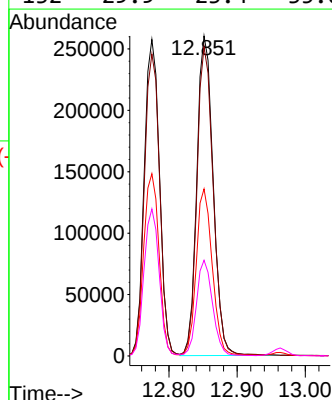
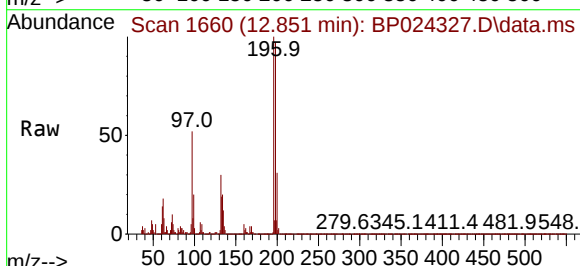
Ion Ratio Lower Upper

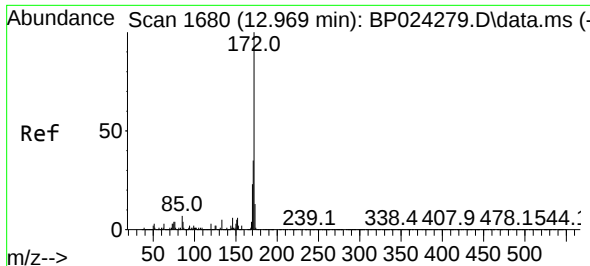
196 100

198 96.6 77.3 115.9

97 52.2 40.4 60.6

132 29.9 23.4 35.0

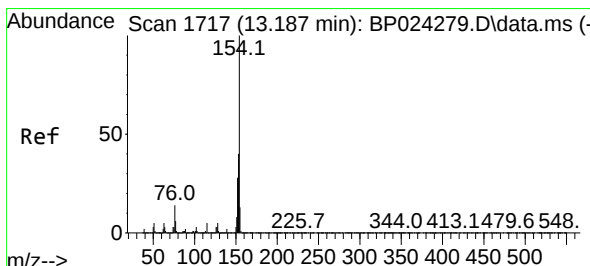
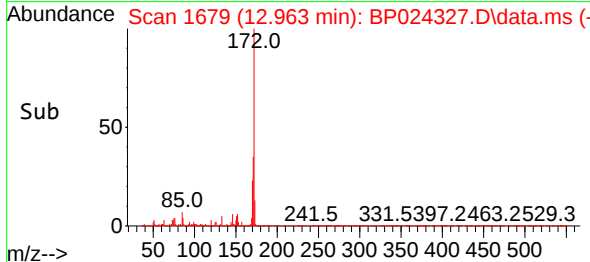
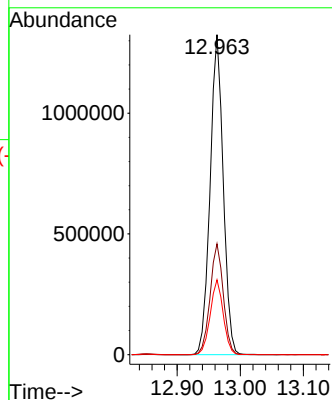
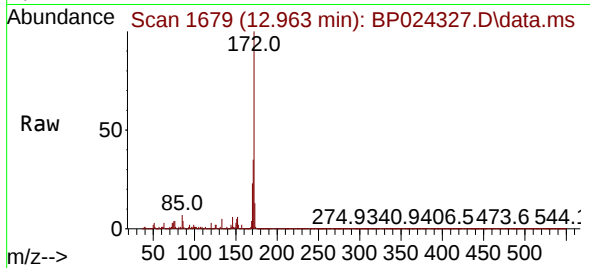




#45  
2-Fluorobiphenyl  
Concen: 60.783 ng  
RT: 12.963 min Scan# 1679  
Delta R.T. -0.018 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

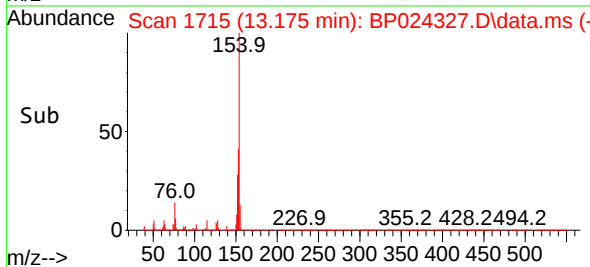
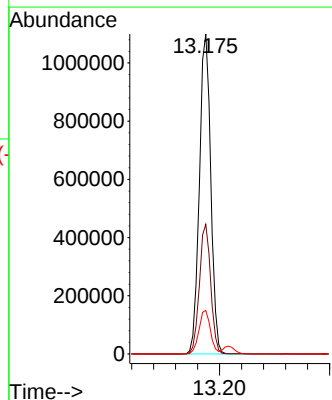
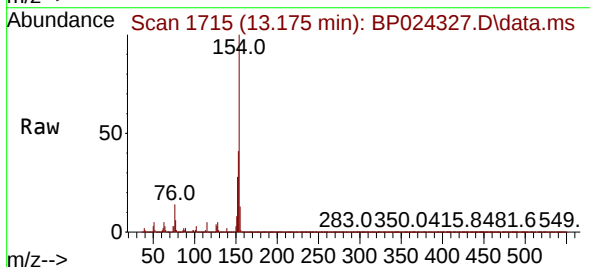
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

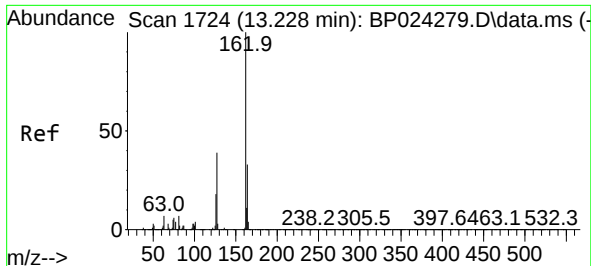
Tgt Ion:172 Resp: 1909390  
Ion Ratio Lower Upper  
172 100  
171 34.7 28.2 42.2  
170 23.4 18.6 27.8



#46  
1,1'-Biphenyl  
Concen: 44.677 ng  
RT: 13.175 min Scan# 1715  
Delta R.T. -0.023 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:154 Resp: 1579506  
Ion Ratio Lower Upper  
154 100  
153 40.5 20.3 60.3  
76 13.6 0.0 33.5

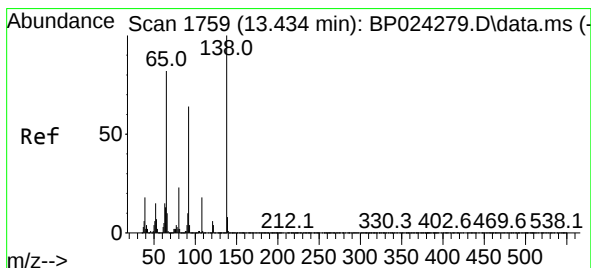
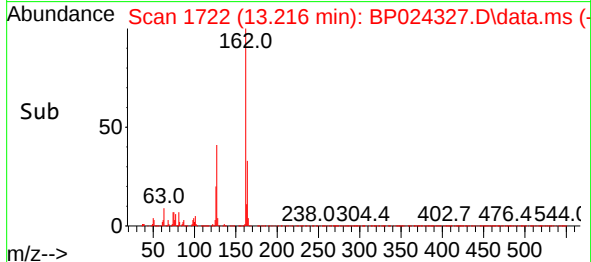
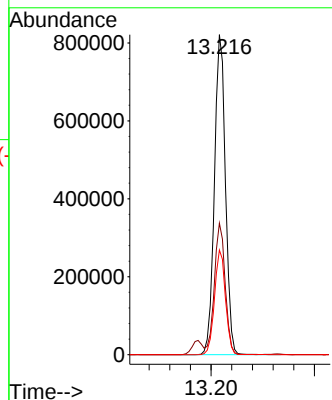
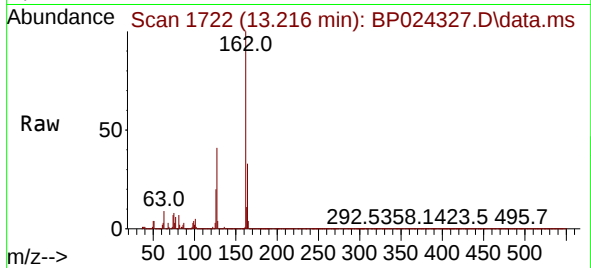




#47  
2-Chloronaphthalene  
Concen: 46.030 ng  
RT: 13.216 min Scan# 1722  
Delta R.T. -0.018 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

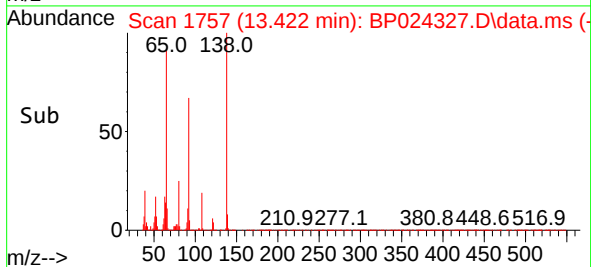
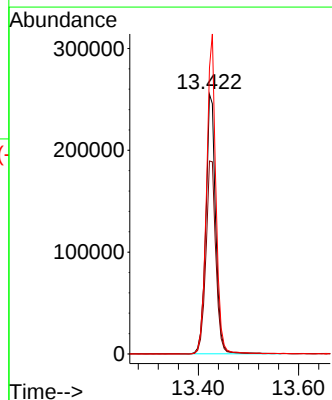
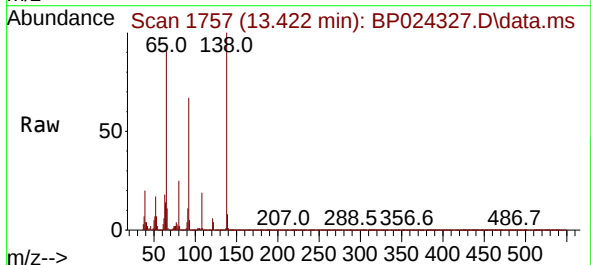
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

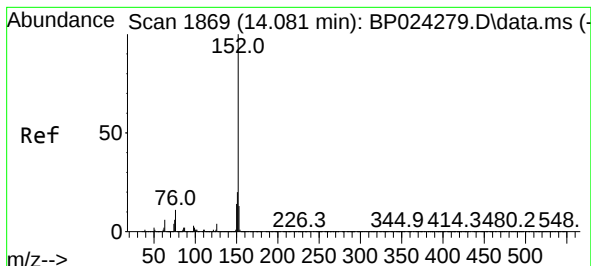
Tgt Ion:162 Resp: 1216254  
Ion Ratio Lower Upper  
162 100  
127 41.1 31.9 47.9  
164 32.7 26.2 39.4



#48  
2-Nitroaniline  
Concen: 46.822 ng  
RT: 13.422 min Scan# 1757  
Delta R.T. -0.023 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 65 Resp: 347040  
Ion Ratio Lower Upper  
65 100  
92 74.3 62.3 93.5  
138 110.3 97.2 145.8





#49

Acenaphthylene

Concen: 47.922 ng

RT: 14.075 min Scan# 1868

Delta R.T. -0.012 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

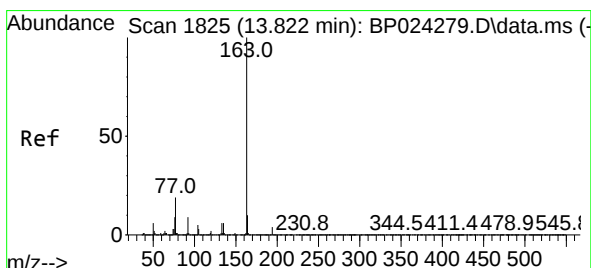
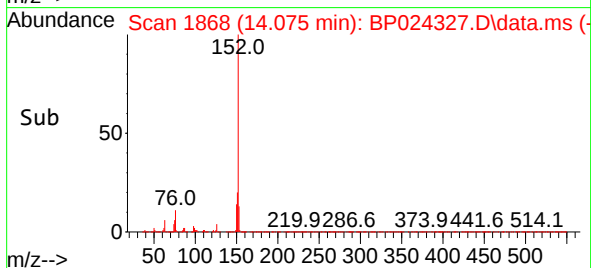
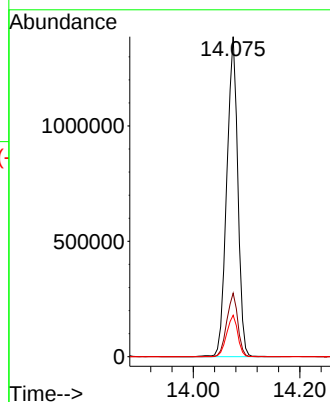
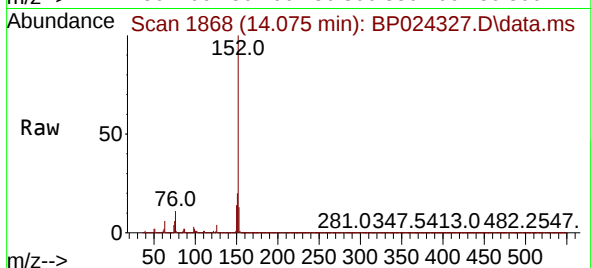
Tgt Ion:152 Resp: 1993630

Ion Ratio Lower Upper

152 100

151 19.8 15.9 23.9

153 13.0 10.6 15.8



#50

Dimethylphthalate

Concen: 41.709 ng

RT: 13.810 min Scan# 1823

Delta R.T. -0.023 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

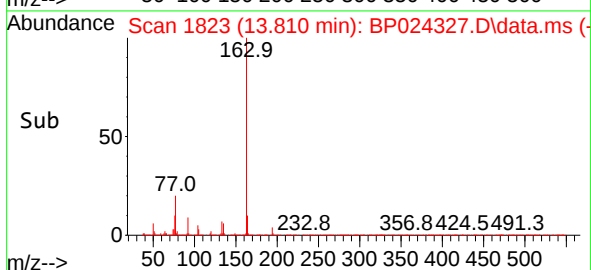
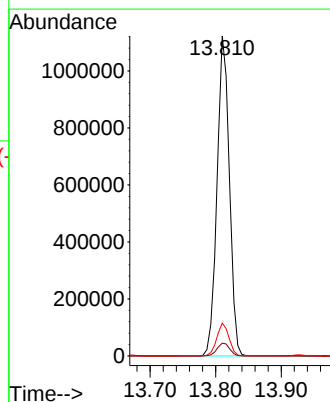
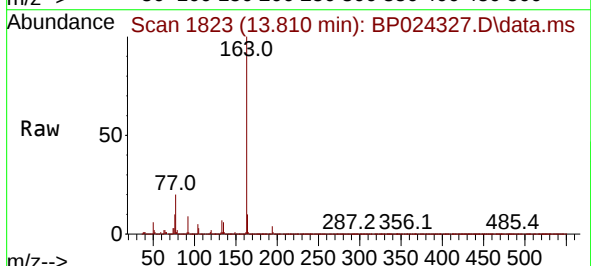
Tgt Ion:163 Resp: 1458860

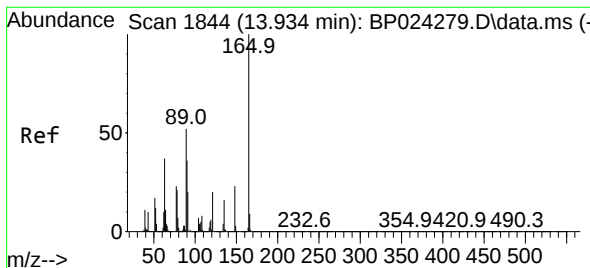
Ion Ratio Lower Upper

163 100

194 4.0 3.5 5.3

164 10.2 8.0 12.0

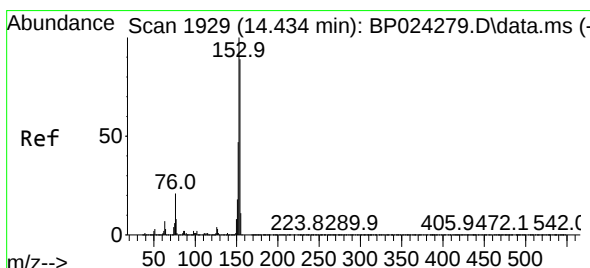
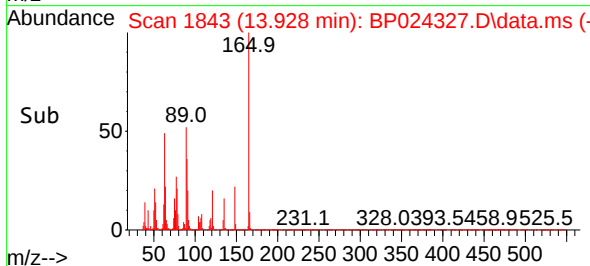
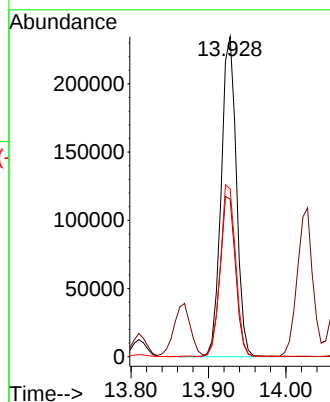
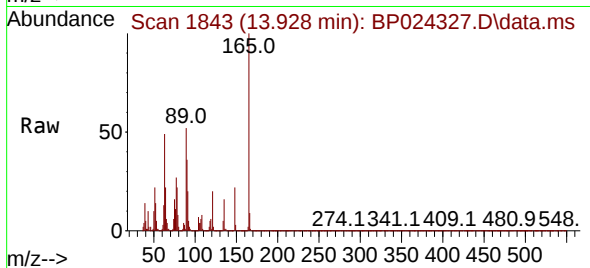




#51  
2,6-Dinitrotoluene  
Concen: 42.956 ng  
RT: 13.928 min Scan# 1843  
Delta R.T. -0.018 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

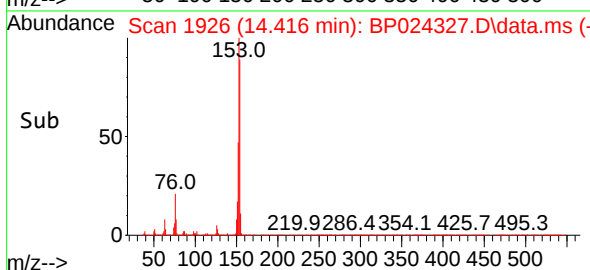
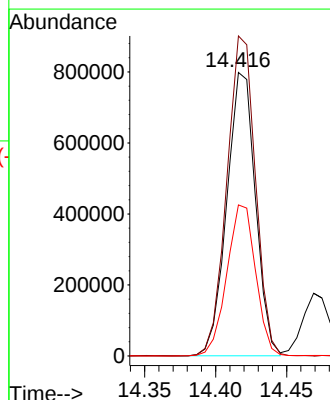
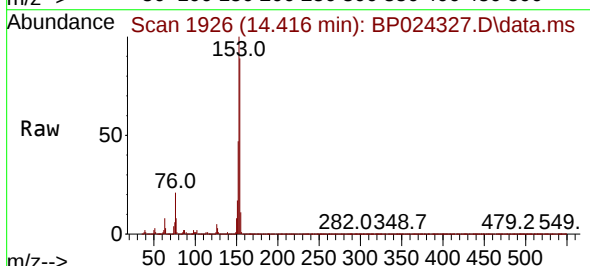
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

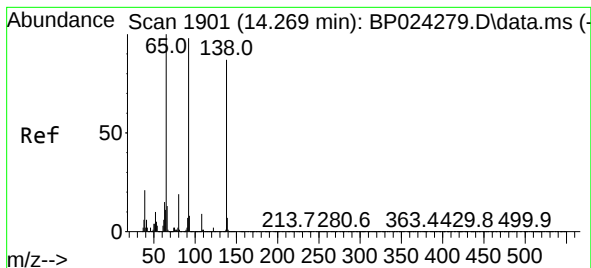
Tgt Ion:165 Resp: 319052  
Ion Ratio Lower Upper  
165 100  
63 49.3 38.0 57.0  
89 52.5 41.7 62.5



#52  
Acenaphthene  
Concen: 42.564 ng  
RT: 14.416 min Scan# 1926  
Delta R.T. -0.023 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:154 Resp: 1122585  
Ion Ratio Lower Upper  
154 100  
153 112.9 89.8 134.6  
152 53.3 42.6 63.8

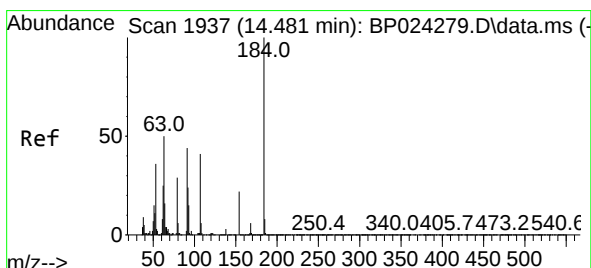
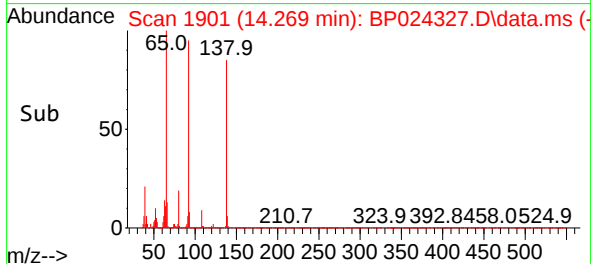
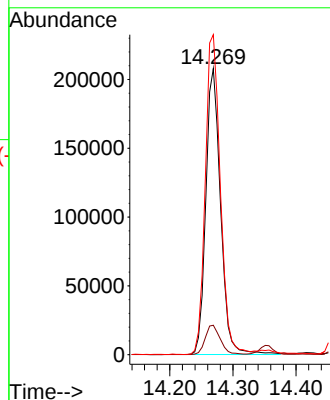
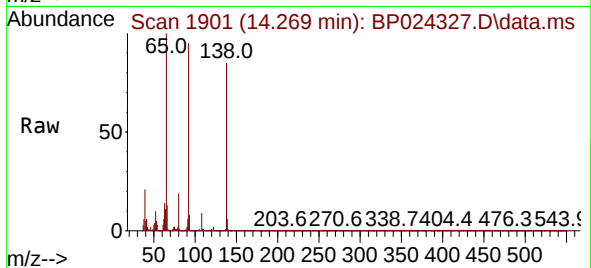




#53  
3-Nitroaniline  
Concen: 43.209 ng  
RT: 14.269 min Scan# 1901  
Delta R.T. -0.012 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

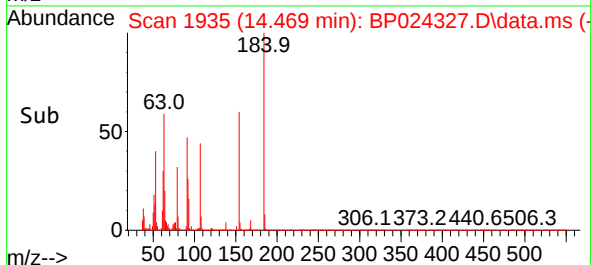
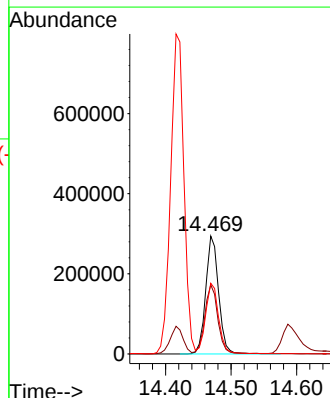
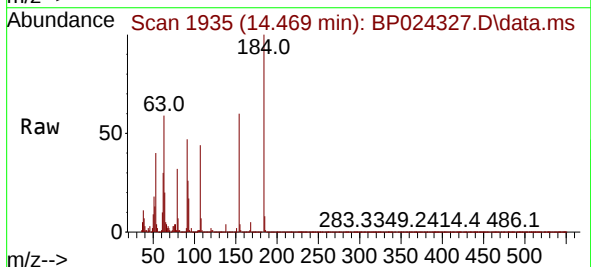
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

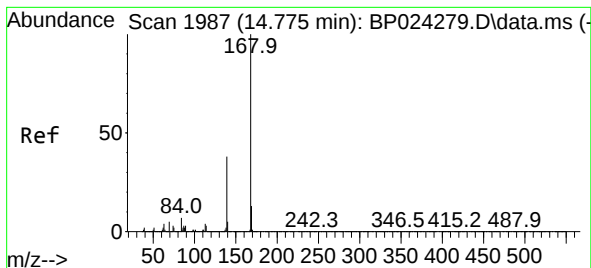
Tgt Ion:138 Resp: 337302  
Ion Ratio Lower Upper  
138 100  
108 10.3 8.3 12.5  
92 111.9 89.8 134.8



#54  
2,4-Dinitrophenol  
Concen: 92.255 ng  
RT: 14.469 min Scan# 1935  
Delta R.T. -0.023 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:184 Resp: 403623  
Ion Ratio Lower Upper  
184 100  
63 58.7 42.6 64.0  
154 60.0 47.2 70.8





#55

Dibenzofuran

Concen: 41.060 ng

RT: 14.751 min Scan# 1983

Delta R.T. -0.029 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

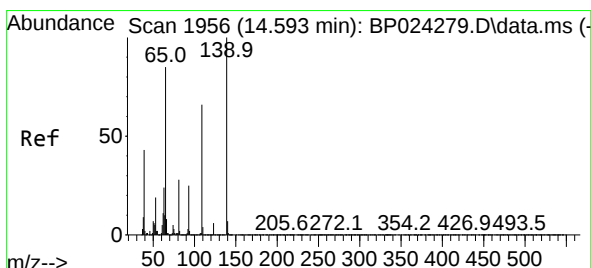
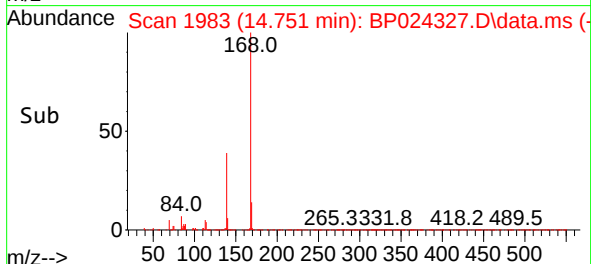
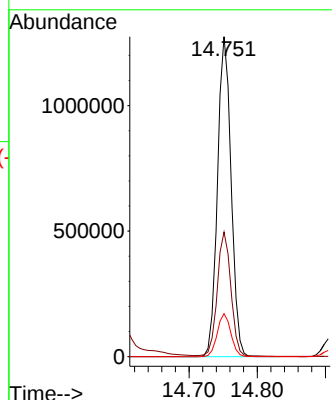
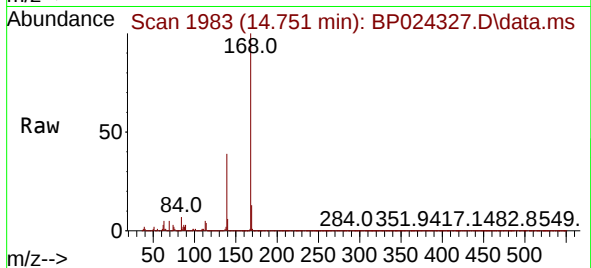
Tgt Ion:168 Resp: 1770106

Ion Ratio Lower Upper

168 100

139 38.9 30.3 45.5

169 13.5 10.6 16.0



#56

4-Nitrophenol

Concen: 88.606 ng

RT: 14.587 min Scan# 1955

Delta R.T. -0.018 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

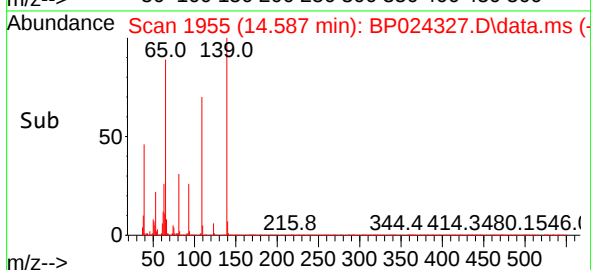
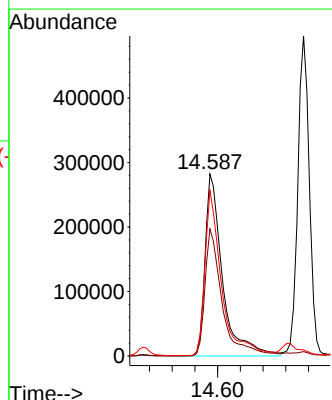
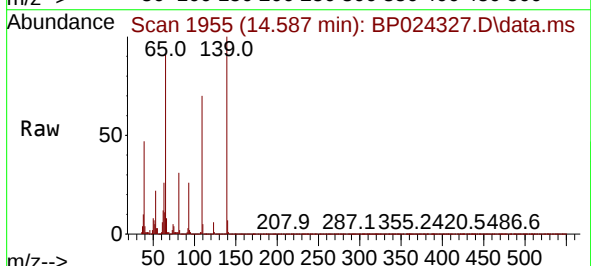
Tgt Ion:139 Resp: 597373

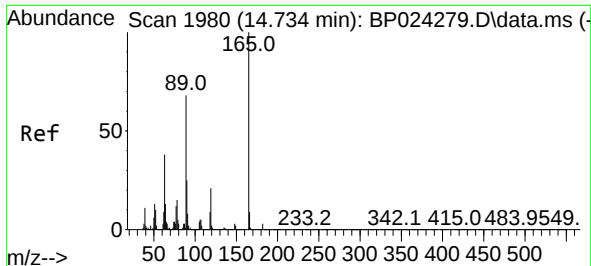
Ion Ratio Lower Upper

139 100

109 69.7 46.1 86.1

65 90.9 65.0 105.0

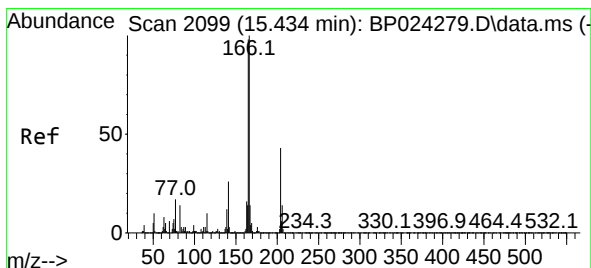
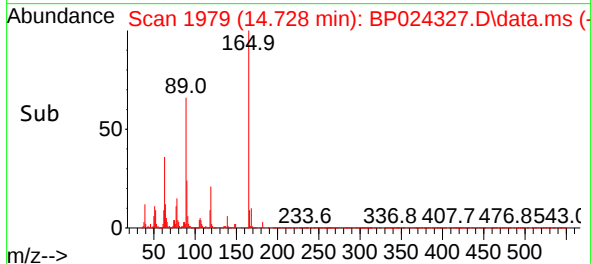
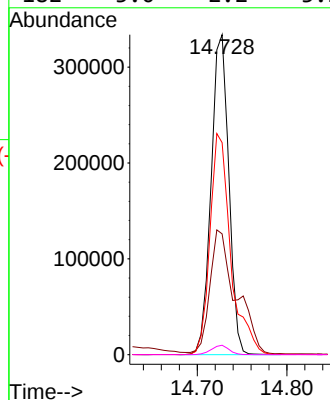
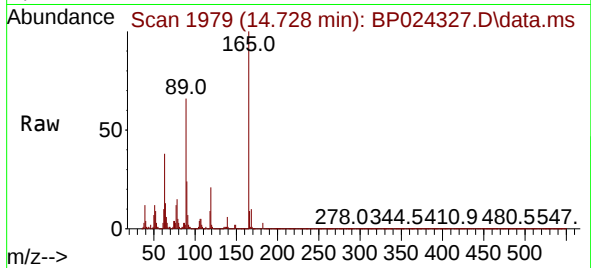




#57  
2,4-Dinitrotoluene  
Concen: 45.003 ng  
RT: 14.728 min Scan# 1980  
Delta R.T. -0.018 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

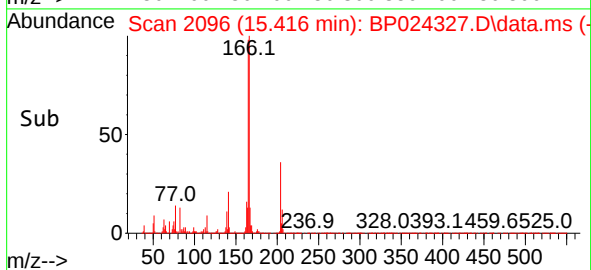
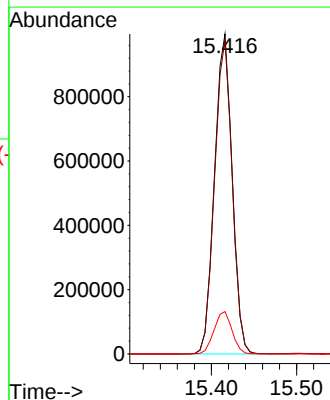
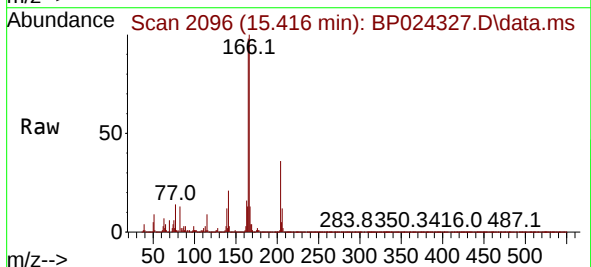
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

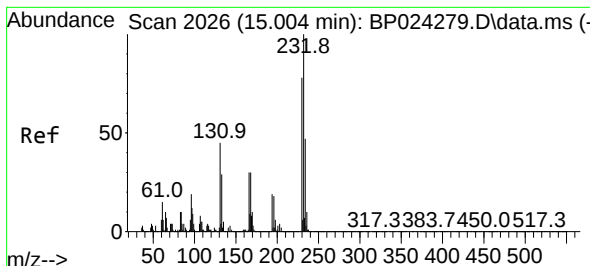
Tgt Ion:165 Resp: 455959  
Ion Ratio Lower Upper  
165 100  
63 37.7 30.4 45.6  
89 66.3 54.6 82.0  
182 3.0 2.2 3.2



#58  
Fluorene  
Concen: 43.049 ng  
RT: 15.416 min Scan# 2096  
Delta R.T. -0.024 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:166 Resp: 1436663  
Ion Ratio Lower Upper  
166 100  
165 98.1 78.1 117.1  
167 13.2 10.9 16.3

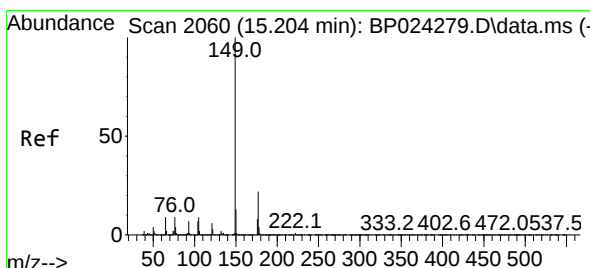
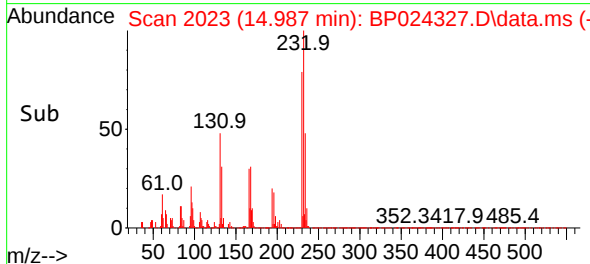
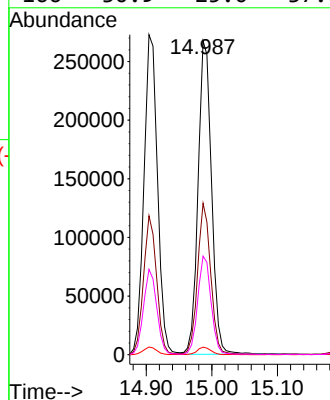
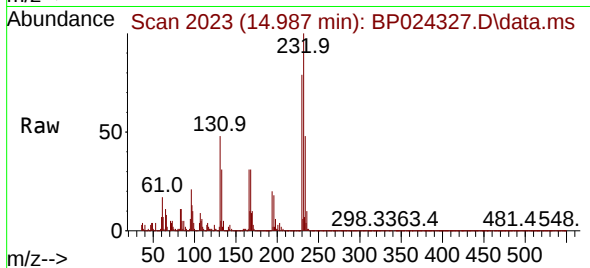




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 42.703 ng  
RT: 14.987 min Scan# 20  
Delta R.T. -0.018 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

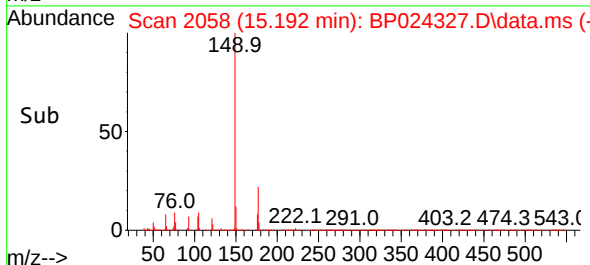
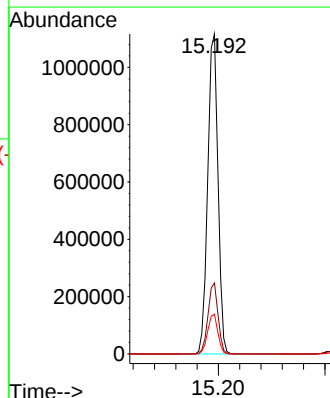
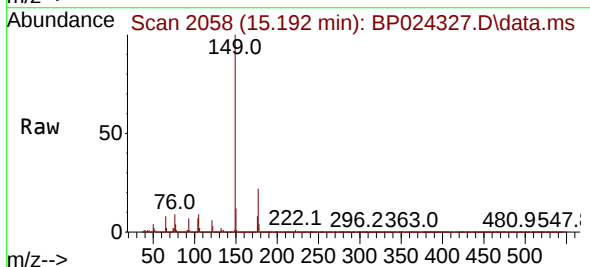
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

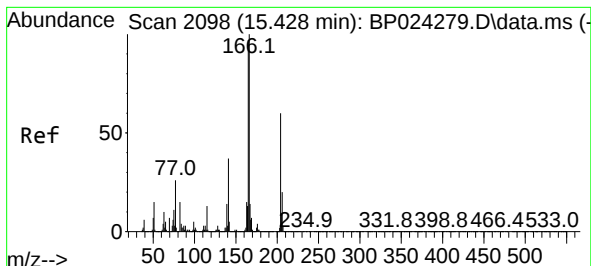
Tgt Ion:232 Resp: 383539  
Ion Ratio Lower Upper  
232 100  
131 46.9 36.8 55.2  
130 2.5 1.9 2.9  
166 30.9 25.0 37.6



#60  
Diethylphthalate  
Concen: 41.451 ng  
RT: 15.192 min Scan# 2058  
Delta R.T. -0.029 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:149 Resp: 1494111  
Ion Ratio Lower Upper  
149 100  
177 22.2 17.4 26.2  
150 12.4 10.1 15.1

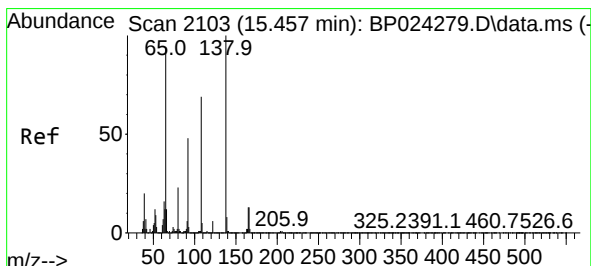
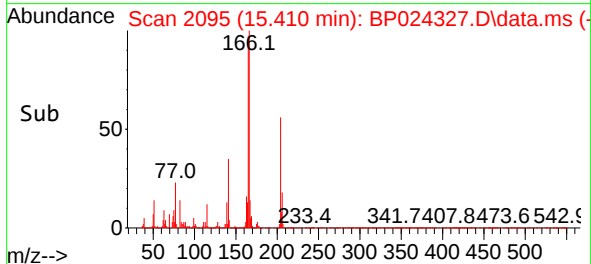
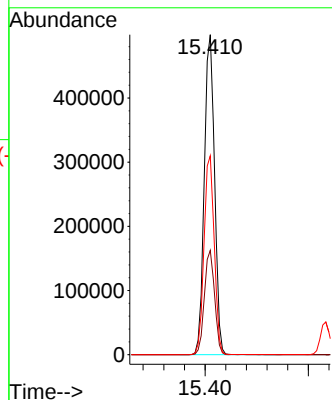
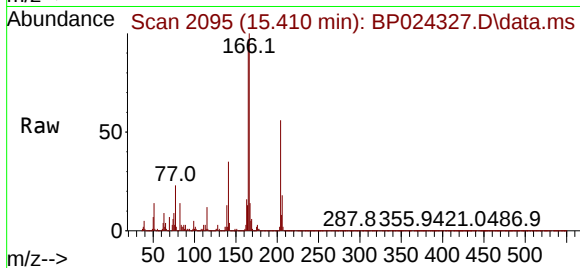




#61  
4-Chlorophenyl-phenylether  
Concen: 42.331 ng  
RT: 15.410 min Scan# 2095  
Delta R.T. -0.029 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

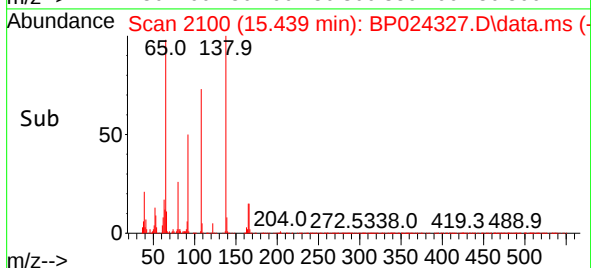
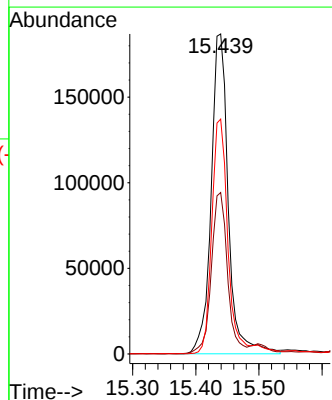
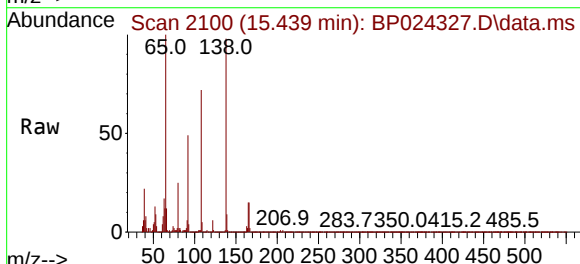
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

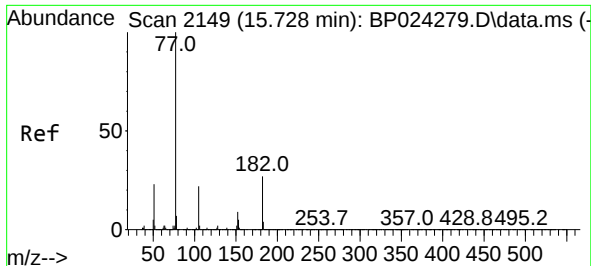
Tgt Ion:204 Resp: 686013  
Ion Ratio Lower Upper  
204 100  
206 32.6 26.5 39.7  
141 62.2 49.4 74.0



#62  
4-Nitroaniline  
Concen: 42.718 ng  
RT: 15.439 min Scan# 2100  
Delta R.T. -0.029 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:138 Resp: 353015  
Ion Ratio Lower Upper  
138 100  
92 50.4 27.8 67.8  
108 73.4 48.9 88.9



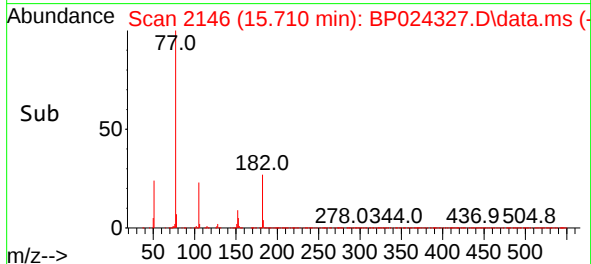
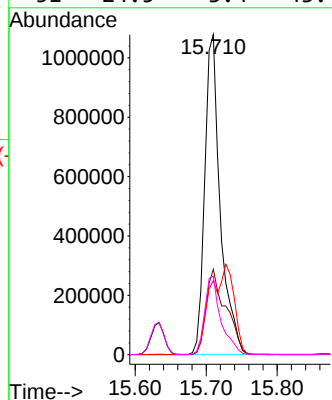
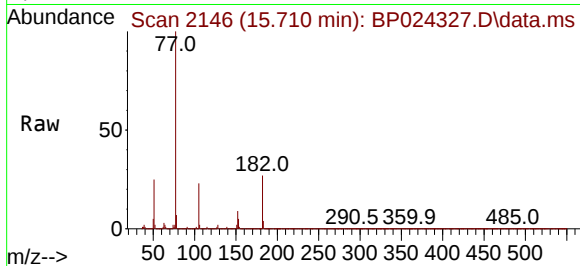


#63  
Azobenzene  
Concen: 49.428 ng  
RT: 15.710 min Scan# 2149  
Delta R.T. -0.029 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

Tgt Ion: 77 Resp: 1637510

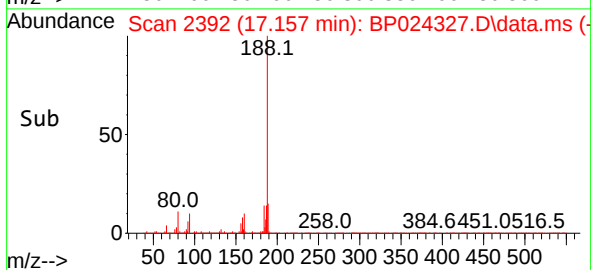
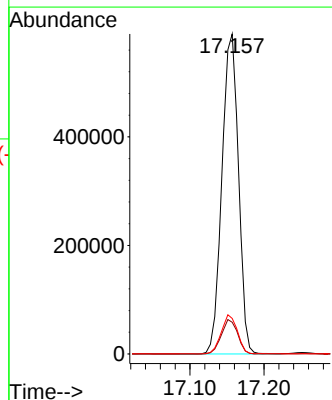
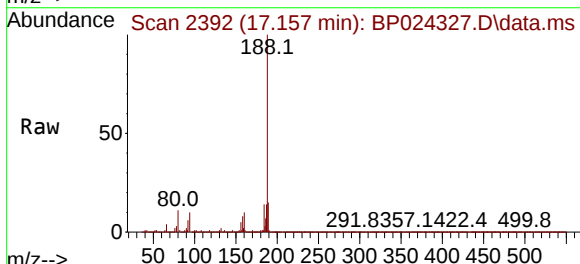
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 182 | 26.7  | 7.3   | 47.3  |
| 105 | 23.2  | 2.3   | 42.3  |
| 51  | 24.5  | 3.4   | 43.4  |

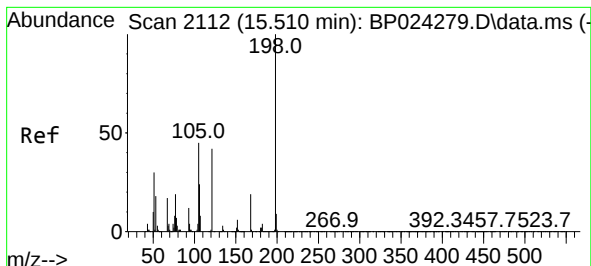


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.157 min Scan# 2392  
Delta R.T. -0.023 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion: 188 Resp: 913873

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 9.9   | 8.6   | 13.0  |
| 80  | 11.1  | 9.8   | 14.6  |

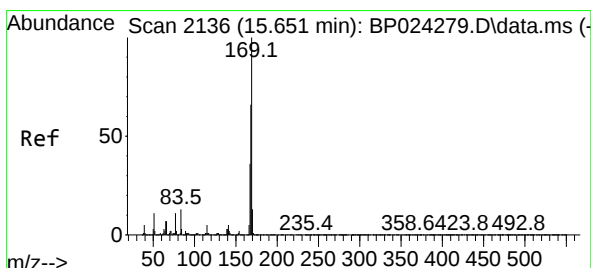
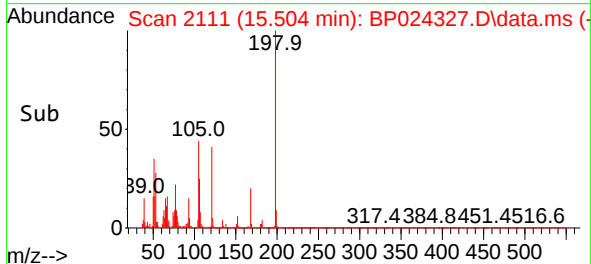
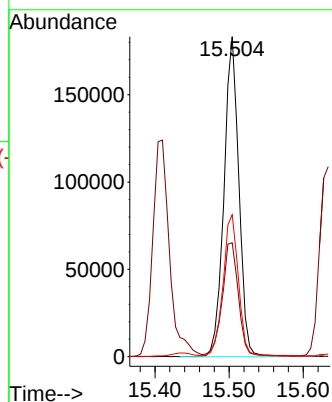
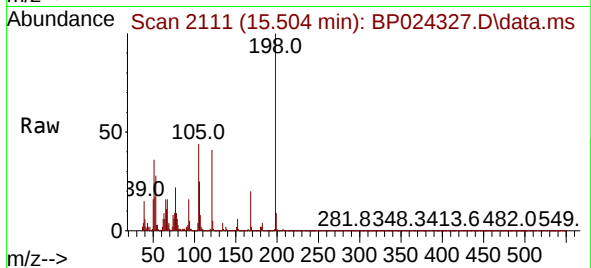




#65  
4,6-Dinitro-2-methylphenol  
Concen: 44.325 ng  
RT: 15.504 min Scan# 2111  
Delta R.T. -0.024 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

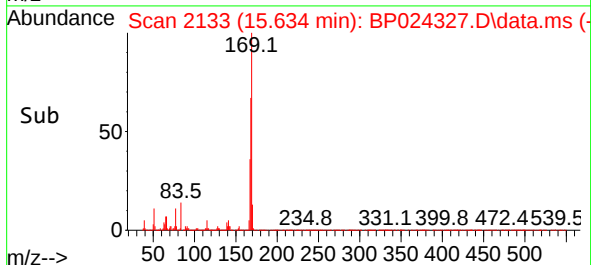
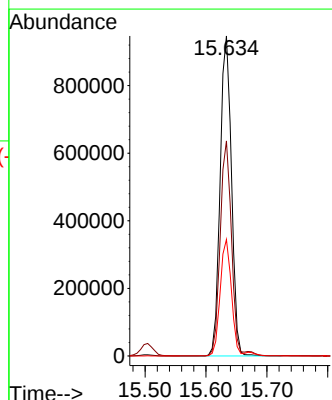
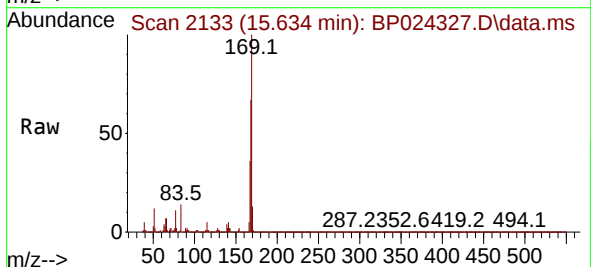
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

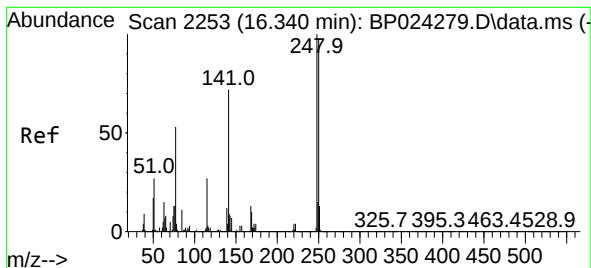
Tgt Ion:198 Resp: 255384  
Ion Ratio Lower Upper  
198 100  
51 35.6 18.4 58.4  
105 44.3 26.5 66.5



#66  
n-Nitrosodiphenylamine  
Concen: 44.614 ng  
RT: 15.634 min Scan# 2133  
Delta R.T. -0.023 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:169 Resp: 1216932  
Ion Ratio Lower Upper  
169 100  
168 67.2 53.0 79.4  
167 36.4 28.9 43.3





#67

4-Bromophenyl-phenylether

Concen: 44.570 ng

RT: 16.322 min Scan# 21

Delta R.T. -0.023 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

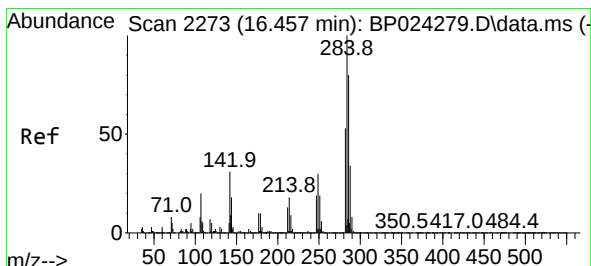
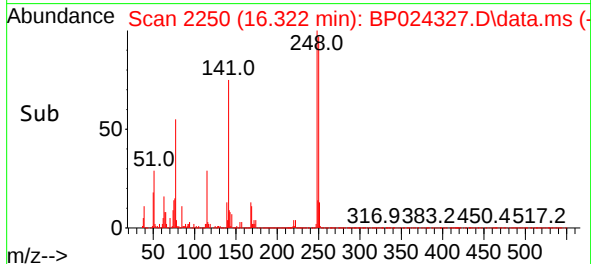
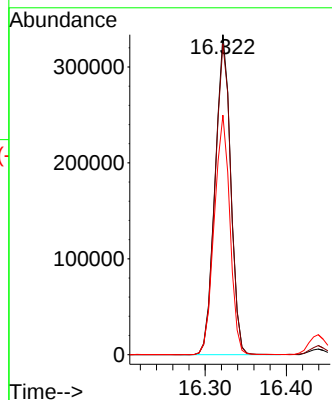
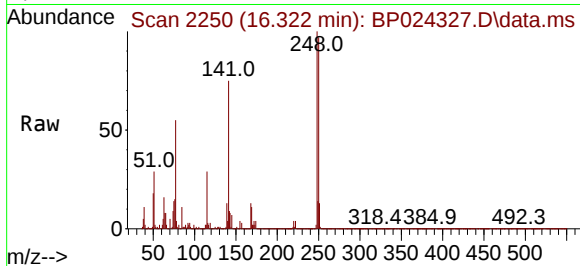
Tgt Ion:248 Resp: 445466

Ion Ratio Lower Upper

248 100

250 97.1 78.2 117.4

141 74.8 57.7 86.5



#68

Hexachlorobenzene

Concen: 44.775 ng

RT: 16.439 min Scan# 2270

Delta R.T. -0.029 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

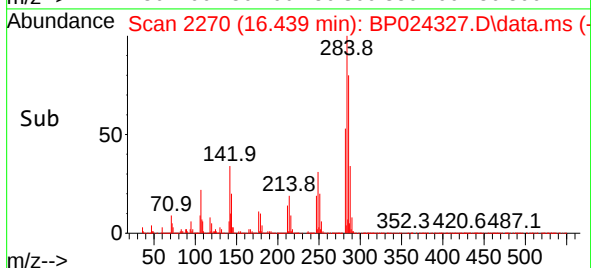
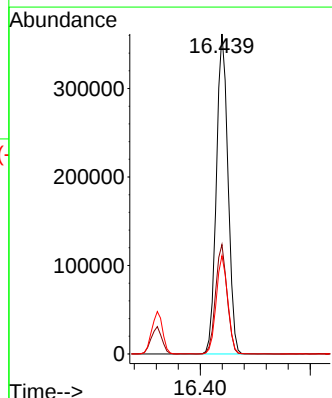
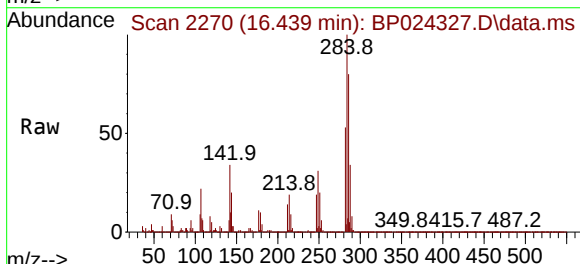
Tgt Ion:284 Resp: 531777

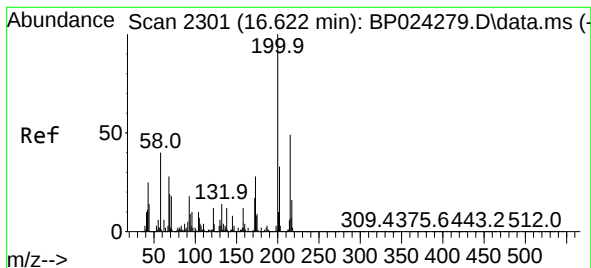
Ion Ratio Lower Upper

284 100

142 34.2 24.6 37.0

249 30.7 23.8 35.6





#69

Atrazine

Concen: 57.285 ng

RT: 16.622 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

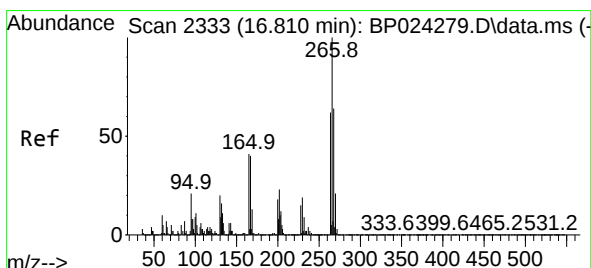
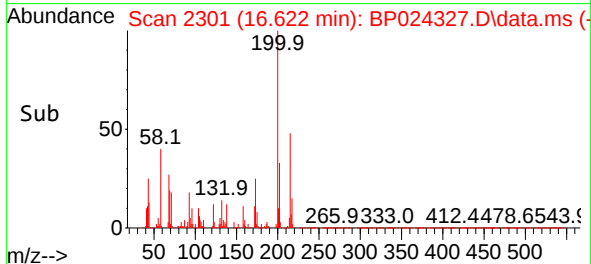
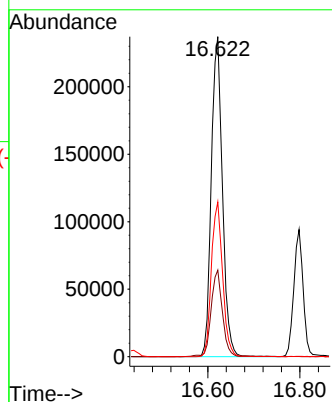
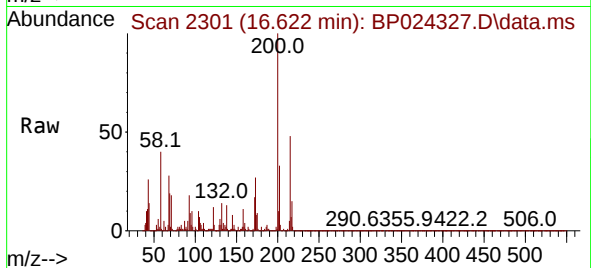
Tgt Ion:200 Resp: 397973

Ion Ratio Lower Upper

200 100

173 27.0 7.5 47.5

215 48.4 28.8 68.8



#70

Pentachlorophenol

Concen: 88.297 ng

RT: 16.798 min Scan# 2331

Delta R.T. -0.029 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

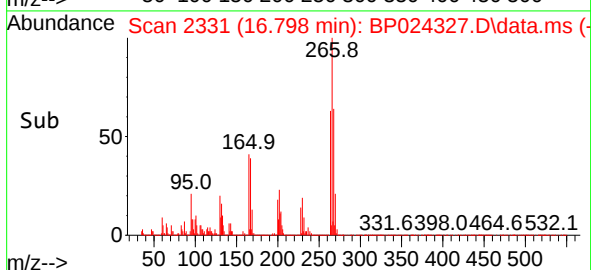
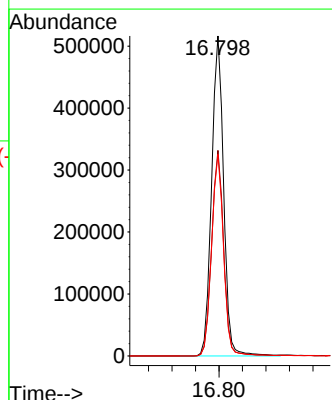
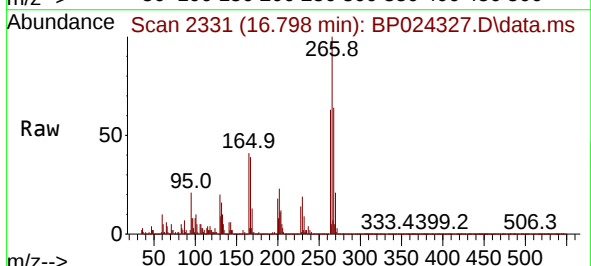
Tgt Ion:266 Resp: 731583

Ion Ratio Lower Upper

266 100

268 64.3 51.0 76.6

264 63.0 49.8 74.6





#71

Phenanthrene

Concen: 44.374 ng

RT: 17.198 min Scan# 21

Delta R.T. -0.029 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

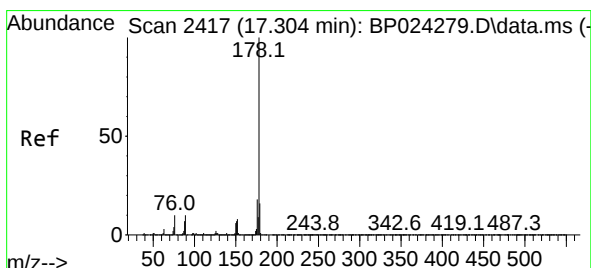
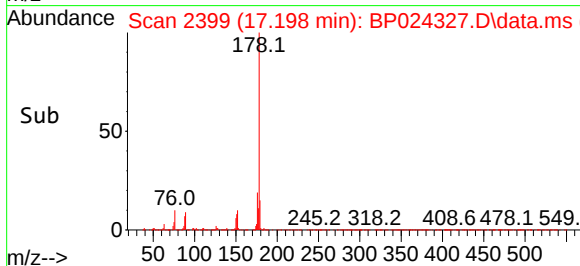
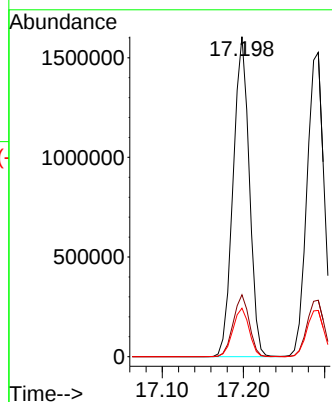
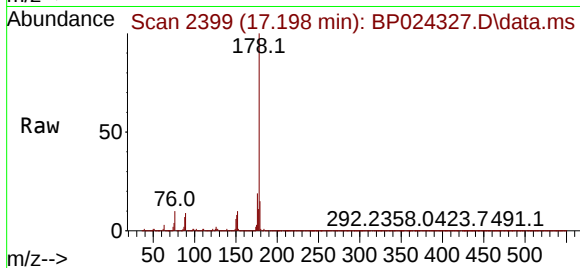
Tgt Ion:178 Resp: 2212223

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 15.2 12.5 18.7



#72

Anthracene

Concen: 46.937 ng

RT: 17.292 min Scan# 2415

Delta R.T. -0.023 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

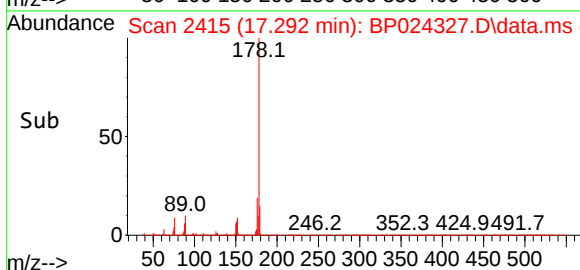
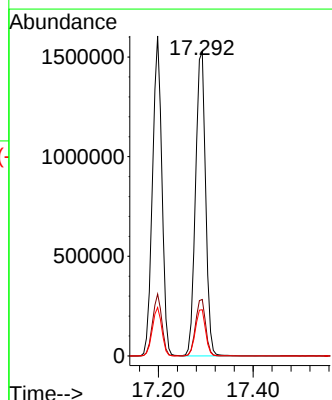
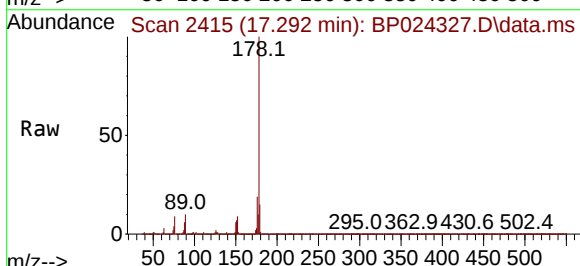
Tgt Ion:178 Resp: 2255303

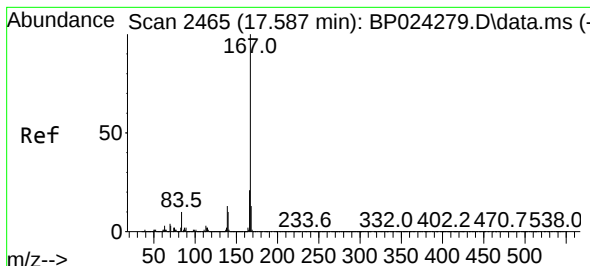
Ion Ratio Lower Upper

178 100

176 18.6 14.7 22.1

179 15.2 12.4 18.6





#73

Carbazole

Concen: 44.738 ng

RT: 17.575 min Scan# 2463

Delta R.T. -0.029 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

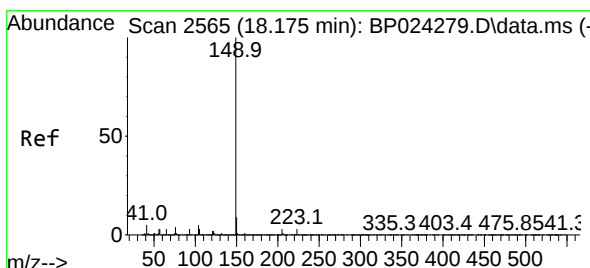
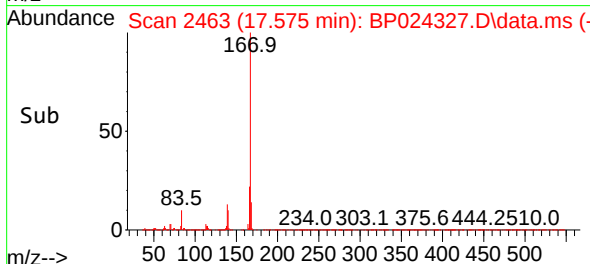
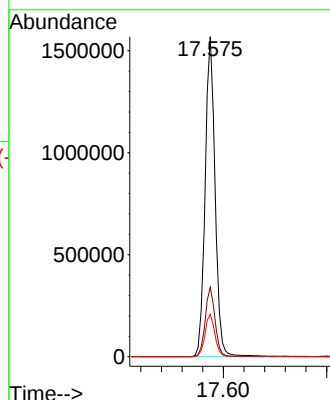
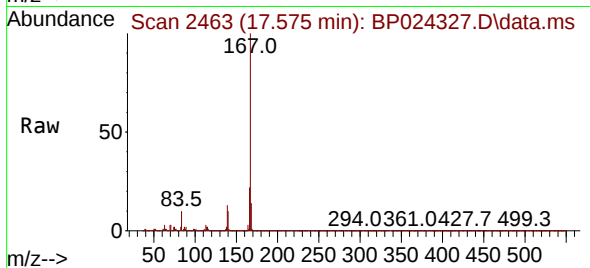
Tgt Ion:167 Resp: 2100348

Ion Ratio Lower Upper

167 100

166 21.7 17.1 25.7

139 13.3 10.6 16.0



#74

Di-n-butylphthalate

Concen: 44.859 ng

RT: 18.163 min Scan# 2563

Delta R.T. -0.029 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

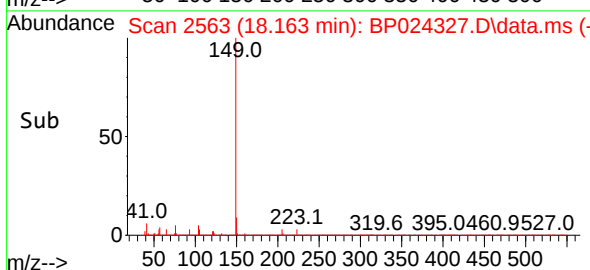
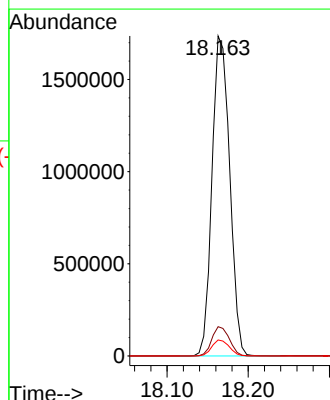
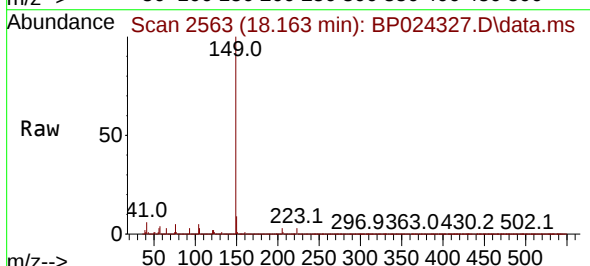
Tgt Ion:149 Resp: 2623835

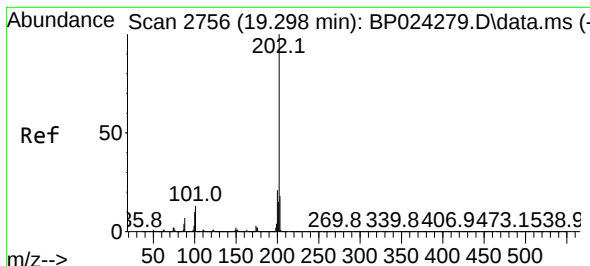
Ion Ratio Lower Upper

149 100

150 9.2 7.4 11.2

104 5.0 3.9 5.9

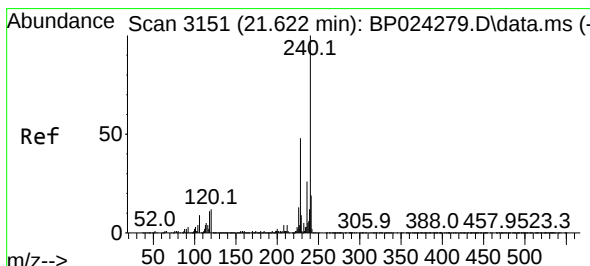
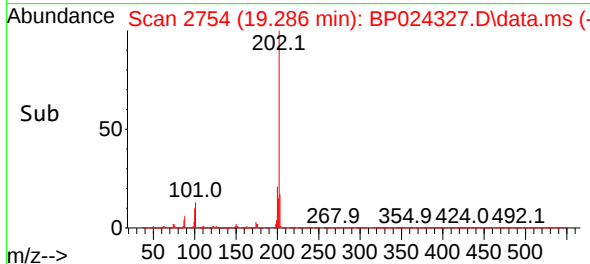
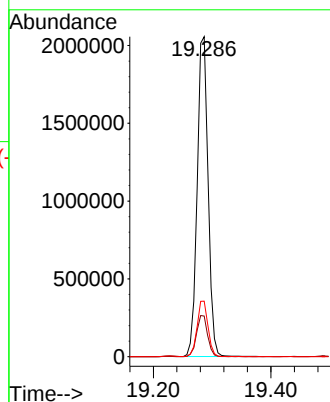
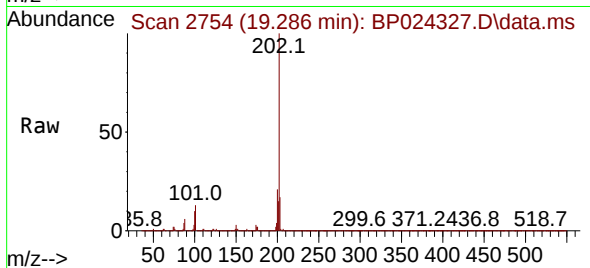




#75  
Fluoranthene  
Concen: 44.558 ng  
RT: 19.286 min Scan# 21  
Delta R.T. -0.029 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

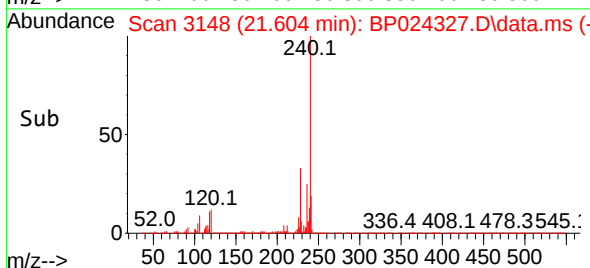
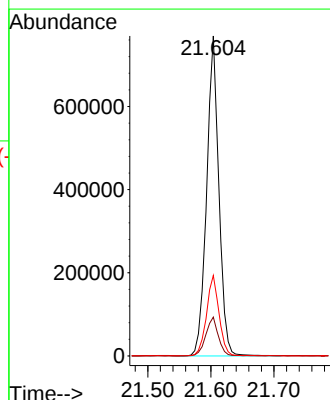
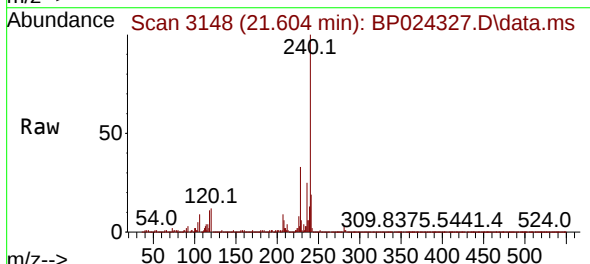
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

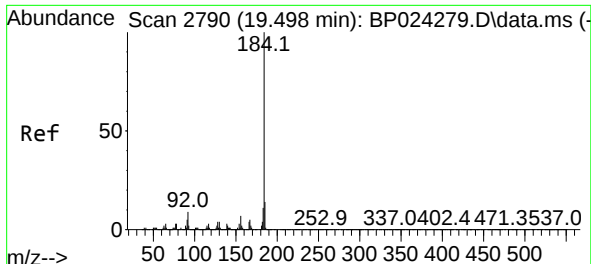
Tgt Ion:202 Resp: 2642023  
Ion Ratio Lower Upper  
202 100  
101 12.7 0.0 33.2  
203 17.4 0.0 37.7



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.604 min Scan# 3148  
Delta R.T. -0.018 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:240 Resp: 1033768  
Ion Ratio Lower Upper  
240 100  
120 12.2 9.8 14.8  
236 25.1 20.9 31.3

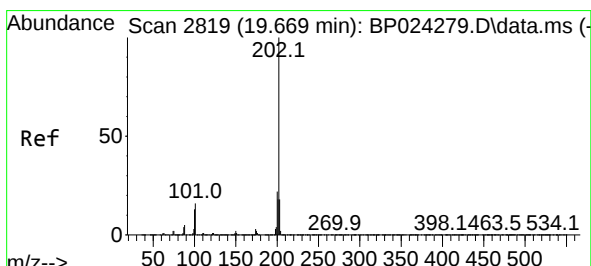
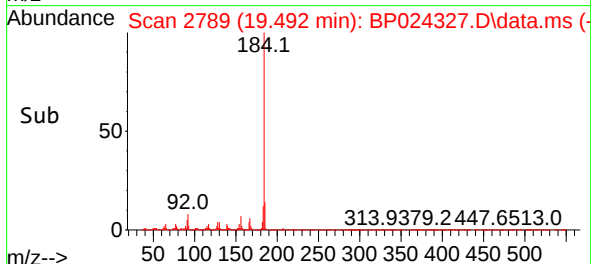
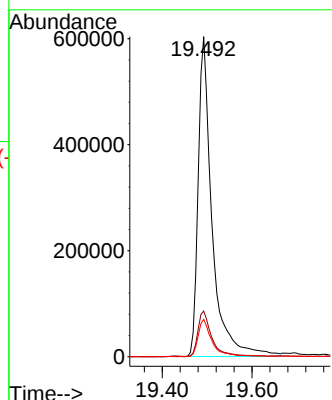
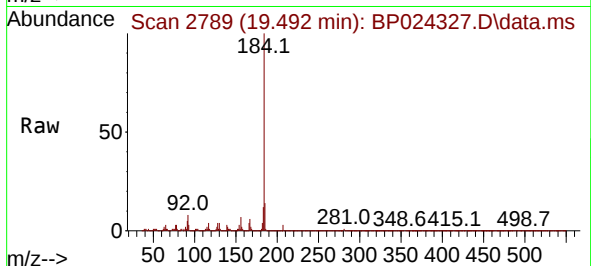




#77  
Benzidine  
Concen: 99.349 ng  
RT: 19.492 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

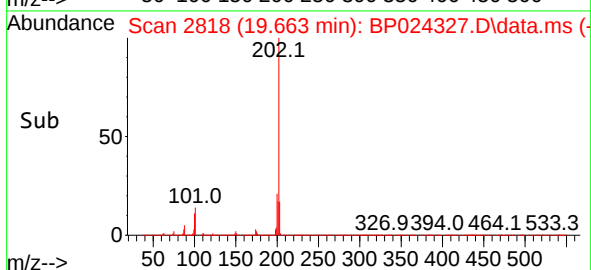
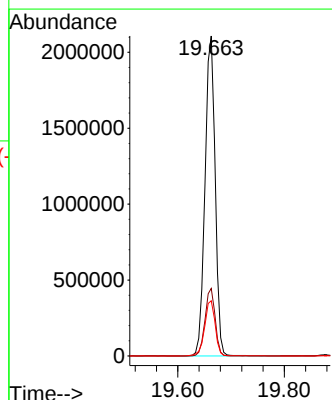
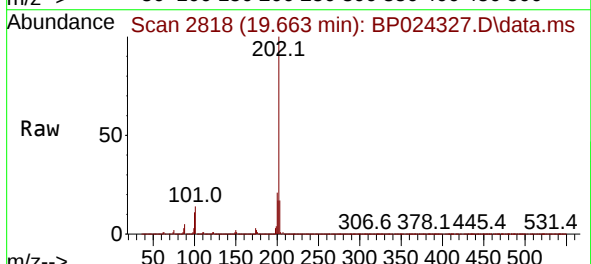
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

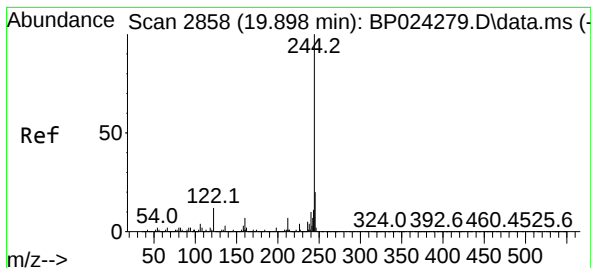
Tgt Ion:184 Resp: 1301862  
Ion Ratio Lower Upper  
184 100  
185 14.3 11.6 17.4  
183 11.7 9.2 13.8



#78  
Pyrene  
Concen: 42.537 ng  
RT: 19.663 min Scan# 2818  
Delta R.T. -0.023 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:202 Resp: 2794585  
Ion Ratio Lower Upper  
202 100  
200 21.1 17.2 25.8  
203 17.3 14.4 21.6





#79

Terphenyl-d14

Concen: 55.297 ng

RT: 19.875 min Scan# 21

Delta R.T. -0.047 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

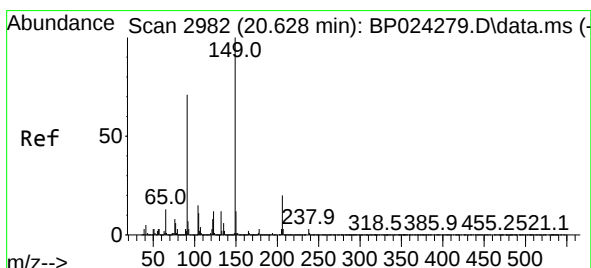
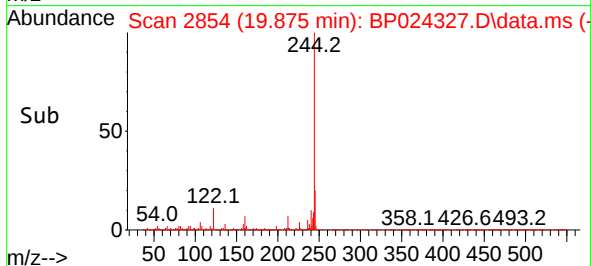
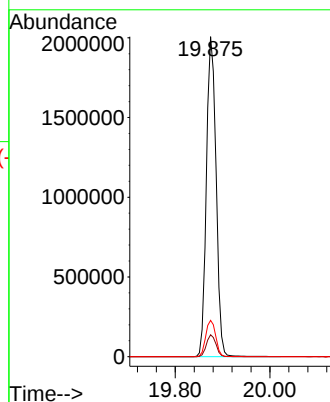
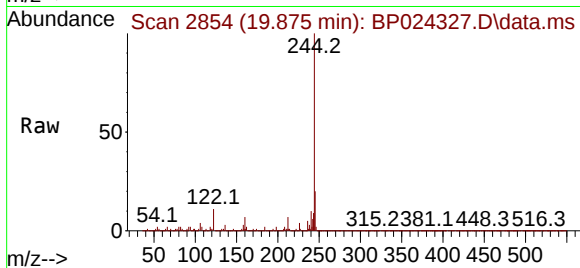
Tgt Ion:244 Resp: 2836041

Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

122 11.3 9.4 14.0



#80

Butylbenzylphthalate

Concen: 45.661 ng

RT: 20.610 min Scan# 2979

Delta R.T. -0.035 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

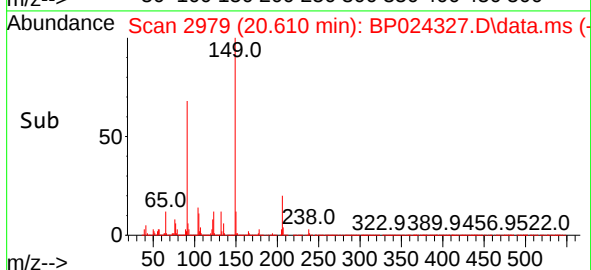
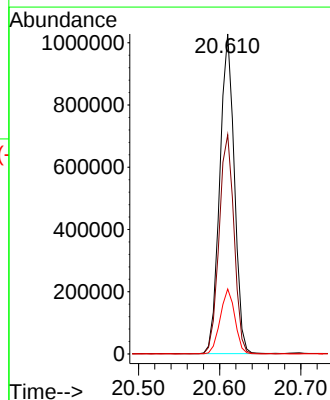
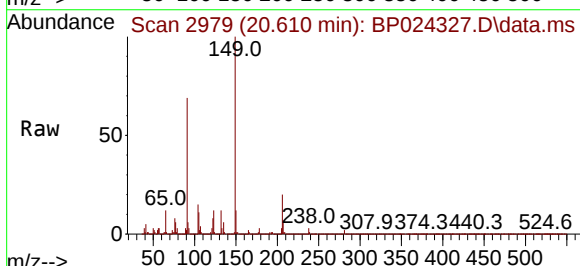
Tgt Ion:149 Resp: 1284880

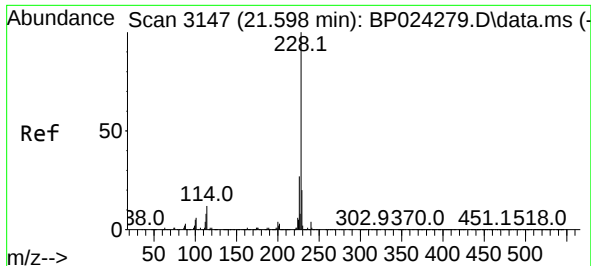
Ion Ratio Lower Upper

149 100

91 68.5 56.4 84.6

206 20.3 16.3 24.5

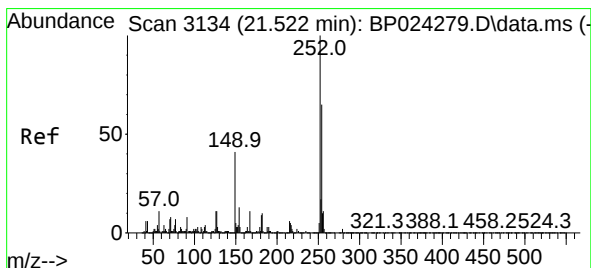
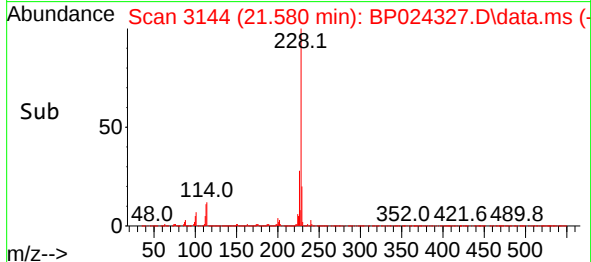
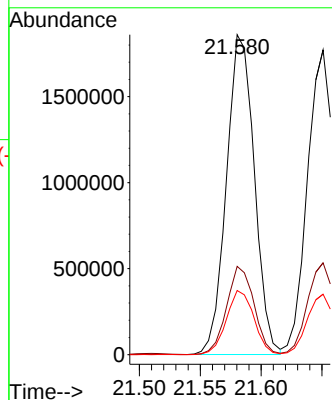
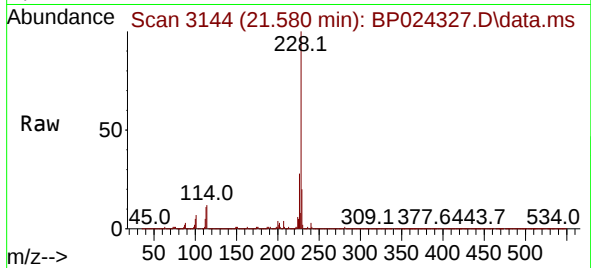




#81  
Benzo(a)anthracene  
Concen: 46.201 ng  
RT: 21.580 min Scan# 3147  
Delta R.T. -0.023 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

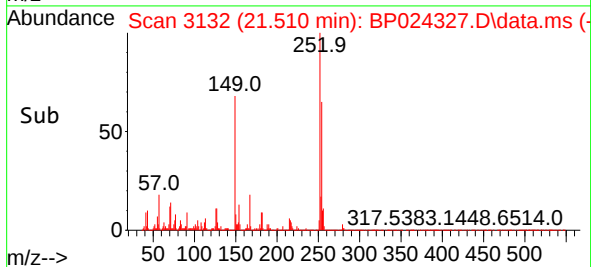
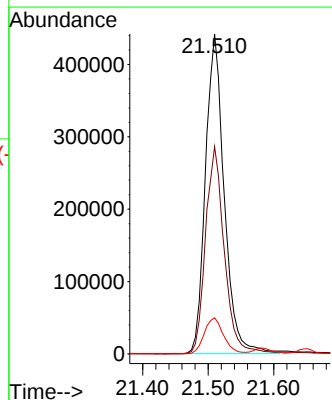
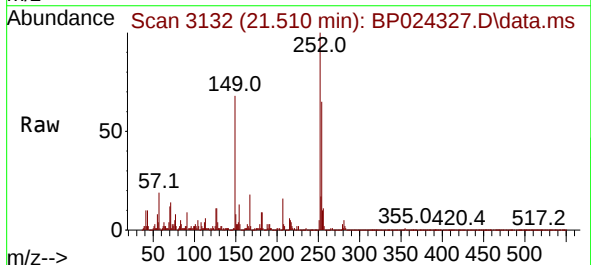
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

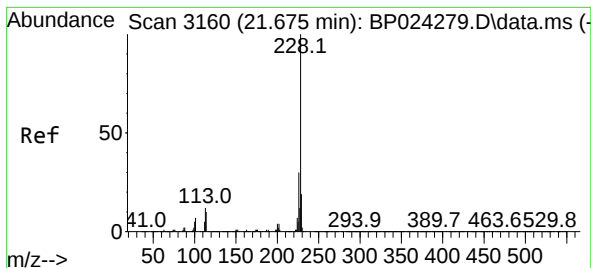
Tgt Ion:228 Resp: 2968621  
Ion Ratio Lower Upper  
228 100  
226 27.6 21.8 32.8  
229 20.1 15.9 23.9



#82  
3,3'-Dichlorobenzidine  
Concen: 39.083 ng  
RT: 21.510 min Scan# 3132  
Delta R.T. -0.029 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:252 Resp: 881418  
Ion Ratio Lower Upper  
252 100  
254 64.8 51.7 77.5  
126 11.3 8.8 13.2





#83

Chrysene

Concen: 44.827 ng

RT: 21.651 min Scan# 31

Delta R.T. -0.029 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

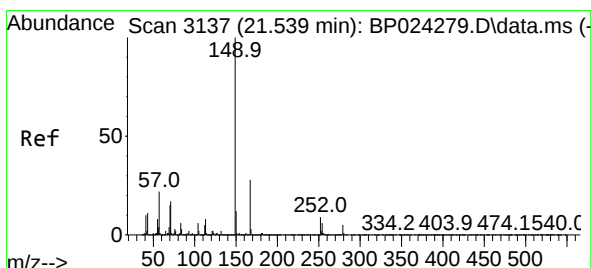
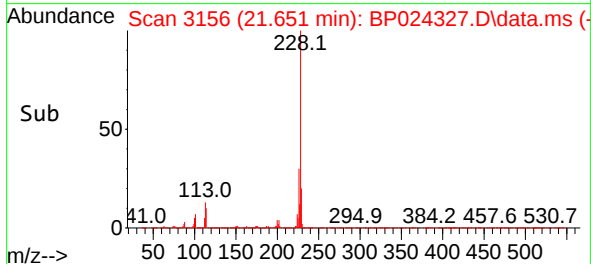
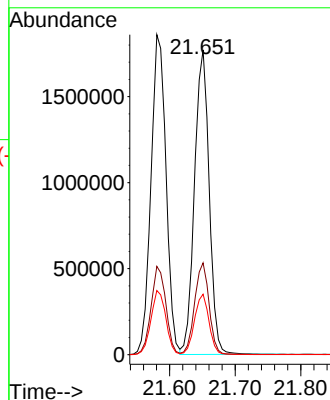
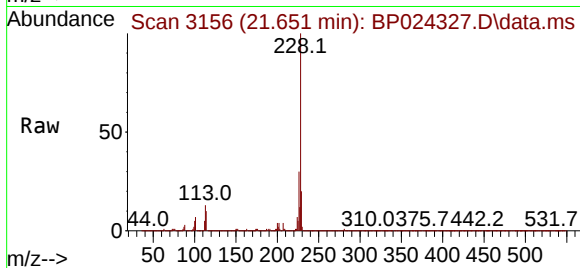
Tgt Ion:228 Resp: 2759501

Ion Ratio Lower Upper

228 100

226 30.1 24.2 36.2

229 19.8 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 45.946 ng

RT: 21.527 min Scan# 3135

Delta R.T. -0.018 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

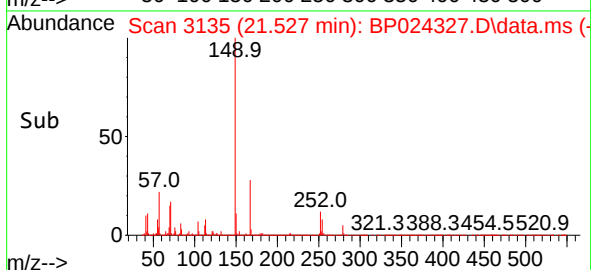
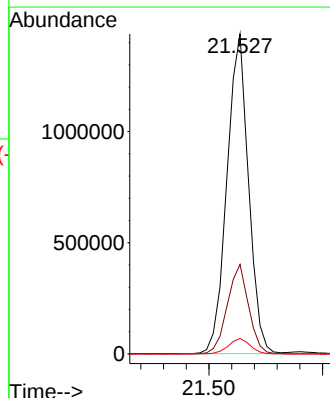
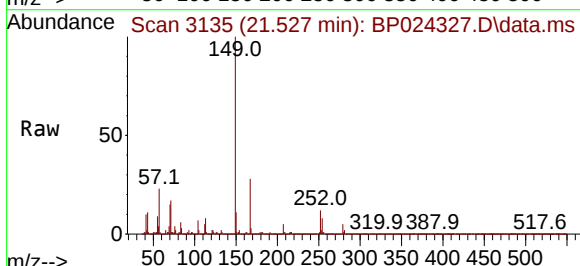
Tgt Ion:149 Resp: 1895349

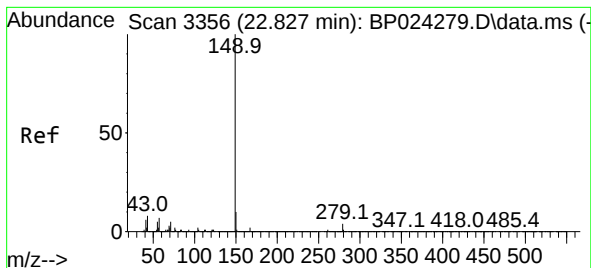
Ion Ratio Lower Upper

149 100

167 28.0 22.4 33.6

279 4.8 4.0 6.0





#85

Di-n-octyl phthalate

Concen: 49.918 ng

RT: 22.810 min Scan# 31

Delta R.T. -0.023 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

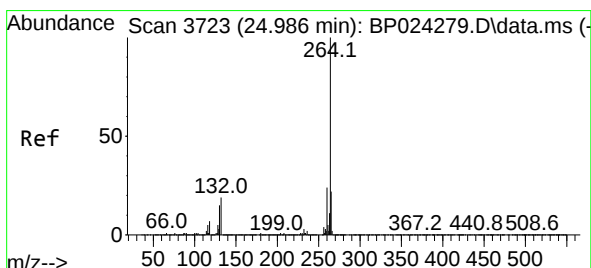
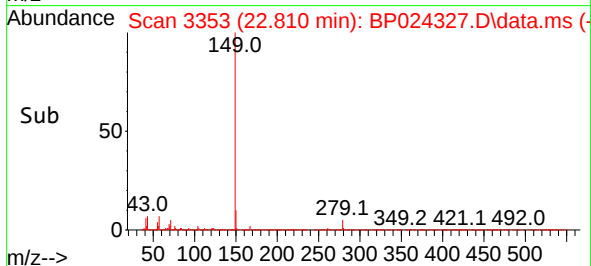
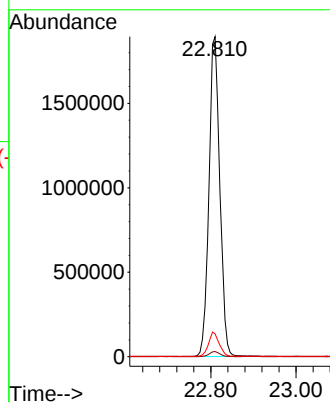
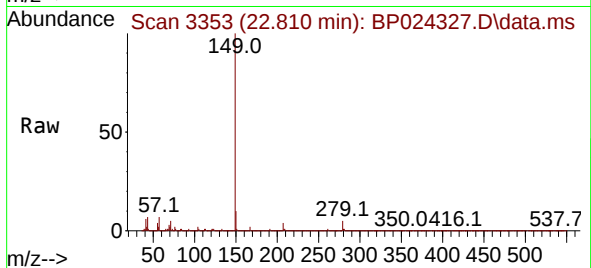
Tgt Ion:149 Resp: 3347688

Ion Ratio Lower Upper

149 100

167 1.6 1.2 1.8

43 7.4 6.0 9.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.945 min Scan# 3716

Delta R.T. -0.041 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

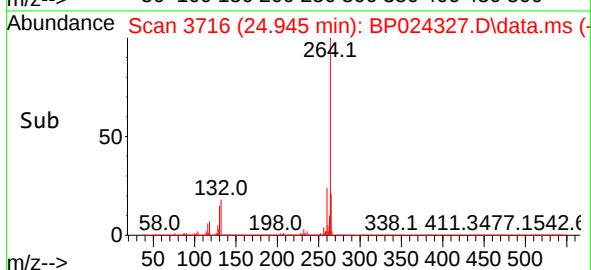
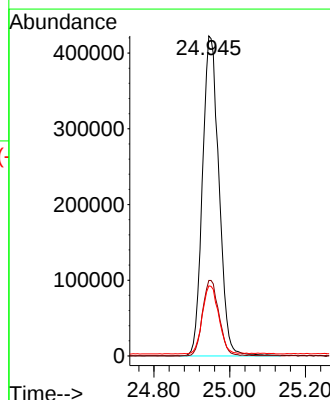
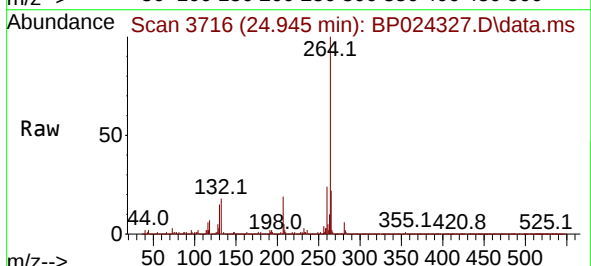
Tgt Ion:264 Resp: 1271915

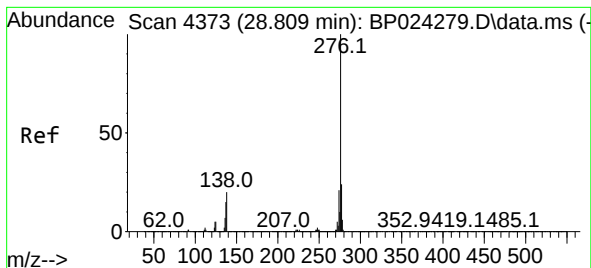
Ion Ratio Lower Upper

264 100

260 23.6 18.9 28.3

265 21.9 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 49.984 ng

RT: 28.774 min Scan# 41

Delta R.T. -0.041 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

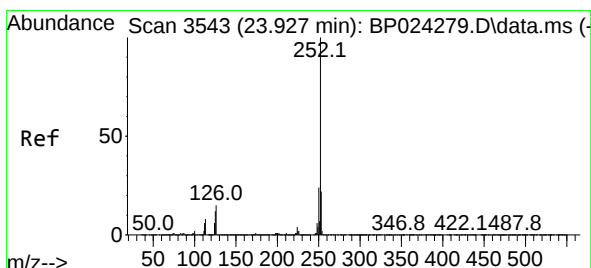
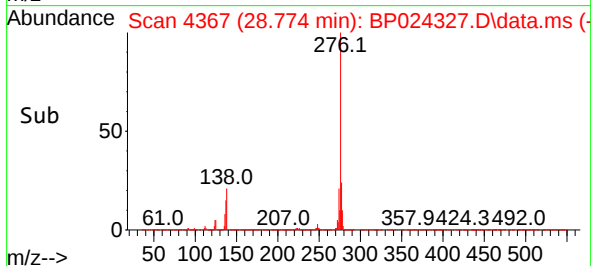
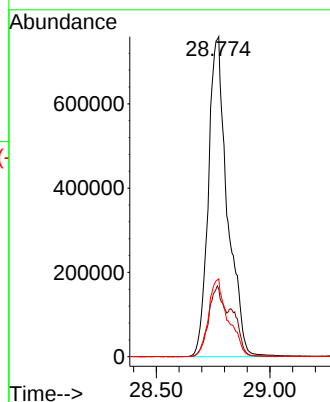
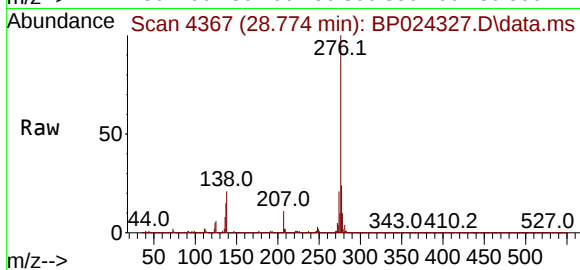
Tgt Ion:276 Resp: 4413685

Ion Ratio Lower Upper

276 100

138 17.7 14.5 21.7

277 25.2 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 42.764 ng

RT: 23.898 min Scan# 3538

Delta R.T. -0.035 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

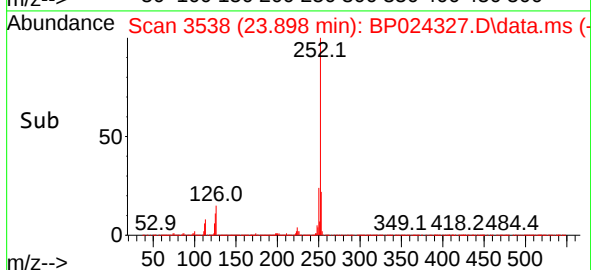
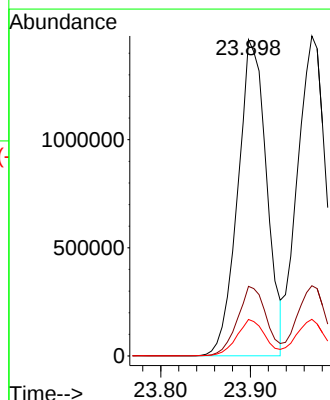
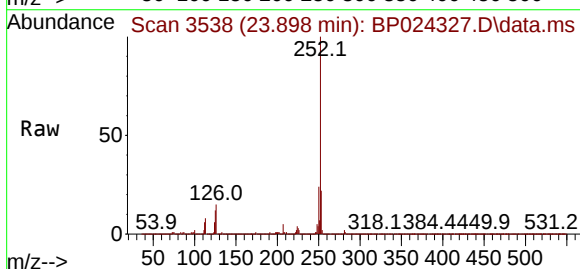
Tgt Ion:252 Resp: 3260338

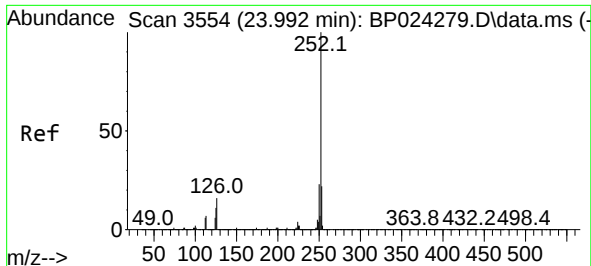
Ion Ratio Lower Upper

252 100

253 22.0 17.7 26.5

125 11.6 9.4 14.0

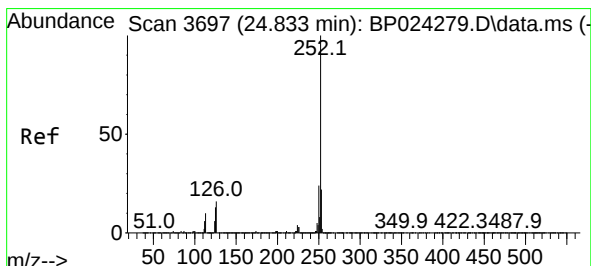
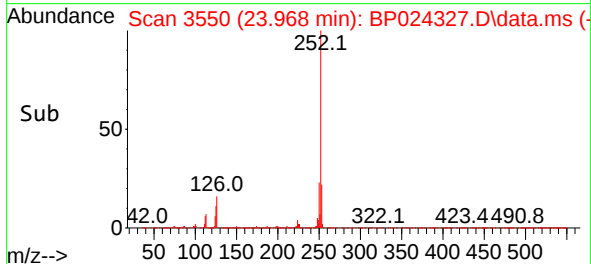
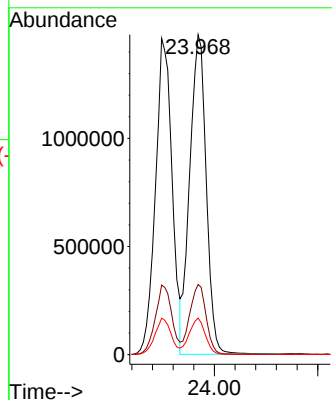
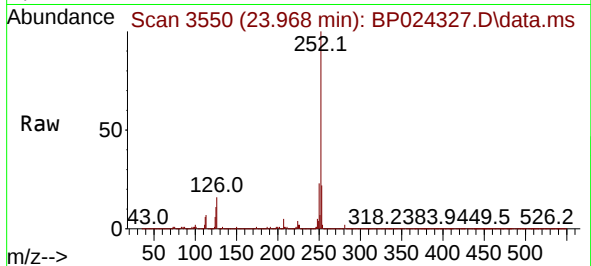




#89  
Benzo(k)fluoranthene  
Concen: 44.431 ng  
RT: 23.968 min Scan# 31  
Delta R.T. -0.029 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

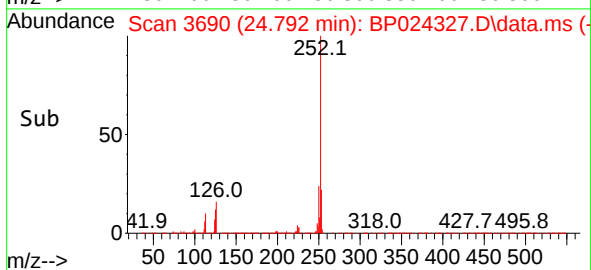
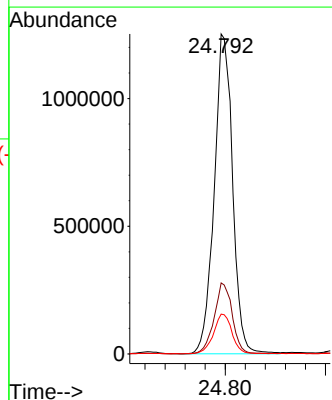
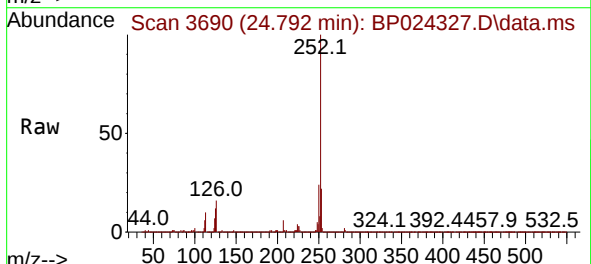
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMS

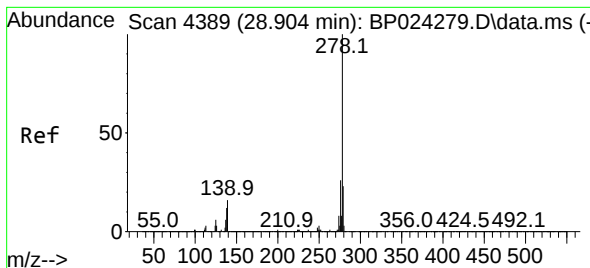
Tgt Ion:252 Resp: 3272022  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.7 26.5  
125 11.4 9.1 13.7



#90  
Benzo(a)pyrene  
Concen: 48.432 ng  
RT: 24.792 min Scan# 3690  
Delta R.T. -0.041 min  
Lab File: BP024327.D  
Acq: 17 Apr 2025 15:20

Tgt Ion:252 Resp: 3185071  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.6 26.4  
125 12.4 10.1 15.1





#91

Dibenzo(a,h)anthracene

Concen: 49.127 ng

RT: 28.839 min Scan# 41

Delta R.T. -0.047 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMS

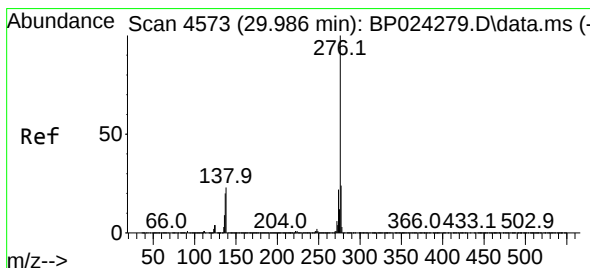
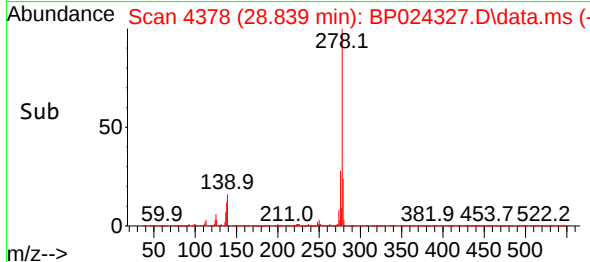
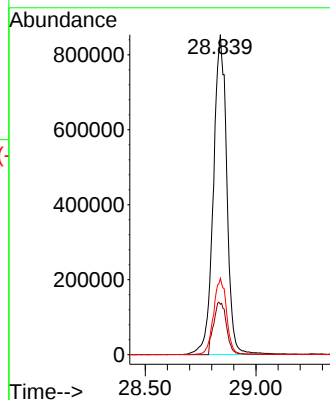
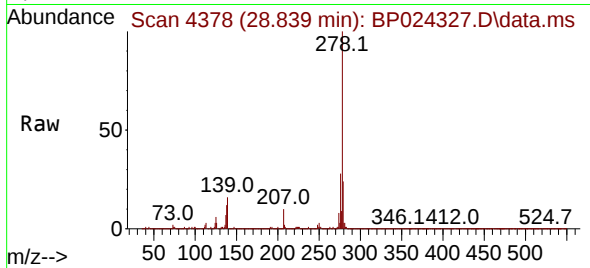
Tgt Ion:278 Resp: 3600668

Ion Ratio Lower Upper

278 100

139 15.8 12.6 19.0

279 23.9 18.5 27.7



#92

Benzo(g,h,i)perylene

Concen: 47.794 ng

RT: 29.933 min Scan# 4564

Delta R.T. -0.065 min

Lab File: BP024327.D

Acq: 17 Apr 2025 15:20

Tgt Ion:276 Resp: 3565495

Ion Ratio Lower Upper

276 100

277 23.7 18.9 28.3

138 23.0 18.7 28.1

