

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP041725\  
 Data File : BP024328.D  
 Acq On : 17 Apr 2025 16:01  
 Operator : RC/JU  
 Sample : Q1821-01MSD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SOIL-CUTTINGMSD

Quant Time: Apr 17 16:25:02 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     | 7.722  | 152  | 259076   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.498 | 136  | 987151   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.357 | 164  | 562727   | 20.000  | ng    | -0.01    |
| 64) Phenanthrene-d10          | 17.157 | 188  | 1041169  | 20.000  | ng    | -0.02    |
| 76) Chrysene-d12              | 21.598 | 240  | 1124343  | 20.000  | ng    | -0.02    |
| 86) Perylene-d12              | 24.956 | 264  | 1396094  | 20.000  | ng    | -0.03    |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.346  | 112  | 1411522  | 90.085  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.910  | 99   | 1772849  | 82.631  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.869  | 82   | 1056944  | 61.053  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 15.875 | 330  | 643036   | 82.593  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 12.969 | 172  | 2194883  | 59.720  | ng    | -0.01    |
| 79) Terphenyl-d14             | 19.874 | 244  | 3096675  | 55.515  | ng    | -0.05    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.293  | 88   | 279357   | 42.151  | ng    | 98       |
| 3) Pyridine                   | 3.687  | 79   | 670524   | 38.314  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.593  | 42   | 254229   | 43.772  | ng    | 97       |
| 6) Aniline                    | 7.075  | 93   | 452225   | 23.588  | ng    | 98       |
| 8) 2-Chlorophenol             | 7.299  | 128  | 764691   | 43.712  | ng    | 99       |
| 9) Benzaldehyde               | 6.875  | 77   | 408288   | 38.471  | ng    | 97       |
| 10) Phenol                    | 6.934  | 94   | 939793   | 43.666  | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 7.151  | 93   | 832977   | 48.036  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.616  | 146  | 823041   | 43.701  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 7.757  | 146  | 835275   | 43.711  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.075  | 146  | 797424   | 43.216  | ng    | 99       |
| 15) Benzyl Alcohol            | 7.963  | 79   | 498870   | 35.955  | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.240  | 45   | 790029   | 42.149  | ng    | 98       |
| 17) 2-Methylphenol            | 8.169  | 107  | 608476   | 43.703  | ng    | 98       |
| 18) Hexachloroethane          | 8.793  | 117  | 312887   | 45.308  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 8.522  | 70   | 508237   | 38.290  | ng    | 99       |
| 20) 3+4-Methylphenols         | 8.493  | 107  | 803121   | 41.572  | ng    | 99       |
| 22) Acetophenone              | 8.540  | 105  | 1054706  | 43.168  | ng    | 100      |
| 24) Nitrobenzene              | 8.910  | 77   | 774549   | 45.227  | ng    | 98       |
| 25) Isophorone                | 9.440  | 82   | 1412426  | 45.074  | ng    | 99       |
| 26) 2-Nitrophenol             | 9.622  | 139  | 382361   | 45.622  | ng    | 99       |
| 27) 2,4-Dimethylphenol        | 9.687  | 122  | 638512   | 60.675  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 9.916  | 93   | 884167   | 41.768  | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 10.157 | 162  | 630106   | 43.914  | ng    | 100      |
| 30) 1,2,4-Trichlorobenzene    | 10.363 | 180  | 686480   | 44.654  | ng    | 100      |
| 31) Naphthalene               | 10.551 | 128  | 2160233  | 41.543  | ng    | 100      |
| 32) Benzoic acid              | 9.828  | 122  | 421792   | 34.398  | ng    | 98       |
| 33) 4-Chloroaniline           | 10.692 | 127  | 382544   | 20.890  | ng    | 98       |
| 34) Hexachlorobutadiene       | 10.834 | 225  | 413390   | 45.760  | ng    | 99       |
| 35) Caprolactam               | 11.451 | 113  | 201906   | 38.136  | ng    | 98       |
| 36) 4-Chloro-3-methylphenol   | 11.792 | 107  | 684062   | 40.930  | ng    | 99       |
| 37) 2-Methylnaphthalene       | 12.163 | 142  | 1320999  | 36.631  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.381 | 142  | 1373415  | 38.930  | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 12.534 | 216  | 709931   | 45.876  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.516 | 237  | 995952   | 181.972 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 12.781 | 196  | 471589   | 45.836  | ng    | 97       |

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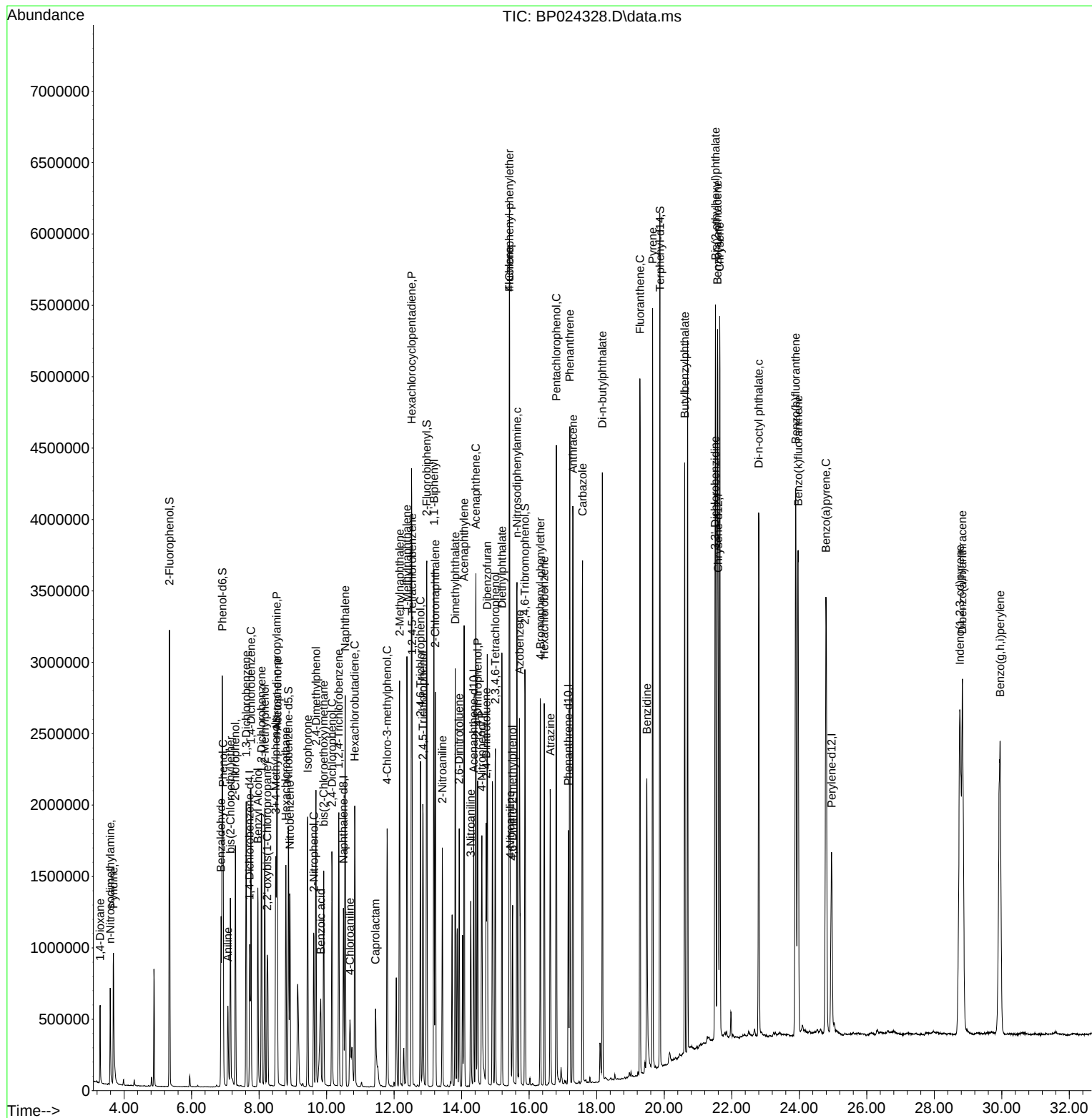
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.851 | 196  | 511995   | 44.938  | ng    | 98       |
| 46) 1,1'-Biphenyl             | 13.181 | 154  | 1790601  | 43.289  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.222 | 162  | 1383857  | 44.764  | ng    | 99       |
| 48) 2-Nitroaniline            | 13.428 | 65   | 401592   | 46.311  | ng    | 98       |
| 49) Acenaphthylene            | 14.075 | 152  | 2263156  | 46.498  | ng    | 100      |
| 50) Dimethylphthalate         | 13.810 | 163  | 1689579  | 41.287  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 13.928 | 165  | 372504   | 42.867  | ng    | 97       |
| 52) Acenaphthene              | 14.422 | 154  | 1300427  | 42.144  | ng    | 99       |
| 53) 3-Nitroaniline            | 14.269 | 138  | 394749   | 43.222  | ng    | 96       |
| 54) 2,4-Dinitrophenol         | 14.475 | 184  | 477156   | 93.218  | ng    | 97       |
| 55) Dibenzofuran              | 14.757 | 168  | 2021384  | 40.077  | ng    | 98       |
| 56) 4-Nitrophenol             | 14.598 | 139  | 699297   | 88.655  | ng    | 98       |
| 57) 2,4-Dinitrotoluene        | 14.728 | 165  | 524351   | 44.234  | ng    | 100      |
| 58) Fluorene                  | 15.416 | 166  | 1598862  | 40.949  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 14.998 | 232  | 440404   | 41.911  | ng    | 99       |
| 60) Diethylphthalate          | 15.192 | 149  | 1681000  | 39.861  | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 15.416 | 204  | 771713   | 40.701  | ng    | 100      |
| 62) 4-Nitroaniline            | 15.445 | 138  | 415467   | 42.971  | ng    | 94       |
| 63) Azobenzene                | 15.716 | 77   | 1881103  | 48.531  | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.510 | 198  | 293124   | 44.655  | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 15.639 | 169  | 1390061  | 44.730  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.333 | 248  | 497858   | 43.721  | ng    | 100      |
| 68) Hexachlorobenzene         | 16.445 | 284  | 608763   | 44.990  | ng    | 95       |
| 69) Atrazine                  | 16.627 | 200  | 443115   | 55.985  | ng    | 98       |
| 70) Pentachlorophenol         | 16.804 | 266  | 838382   | 88.816  | ng    | 99       |
| 71) Phenanthrene              | 17.204 | 178  | 2472978  | 43.539  | ng    | 100      |
| 72) Anthracene                | 17.298 | 178  | 2502684  | 45.718  | ng    | 100      |
| 73) Carbazole                 | 17.580 | 167  | 2378089  | 44.460  | ng    | 100      |
| 74) Di-n-butylphthalate       | 18.169 | 149  | 2967744  | 44.535  | ng    | 100      |
| 75) Fluoranthene              | 19.280 | 202  | 2940292  | 43.526  | ng    | 100      |
| 77) Benzidine                 | 19.486 | 184  | 1654230  | 116.070 | ng    | 99       |
| 78) Pyrene                    | 19.657 | 202  | 3030680  | 42.415  | ng    | 100      |
| 80) Butylbenzylphthalate      | 20.610 | 149  | 1394581  | 45.567  | ng    | 95       |
| 81) Benzo(a)anthracene        | 21.580 | 228  | 3128087  | 44.761  | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 21.504 | 252  | 855827   | 34.891  | ng    | 100      |
| 83) Chrysene                  | 21.645 | 228  | 2943042  | 43.957  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.521 | 149  | 2051948  | 45.735  | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.798 | 149  | 3565788  | 48.887  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 28.756 | 276  | 4731750  | 48.820  | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 23.892 | 252  | 3493620  | 41.748  | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 23.968 | 252  | 3456251  | 42.758  | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.792 | 252  | 3430513  | 47.524  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 28.833 | 278  | 3871306  | 48.121  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 29.950 | 276  | 3818194  | 46.628  | ng    | 98       |

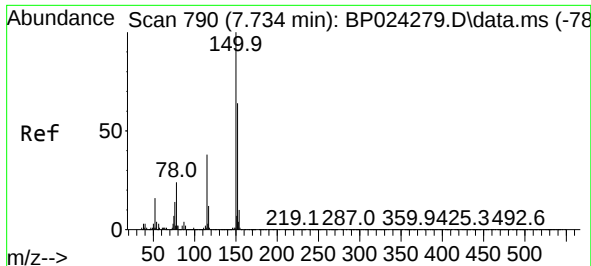
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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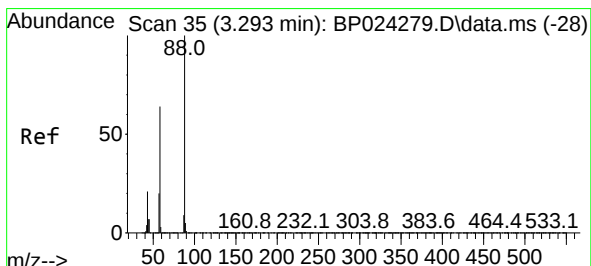
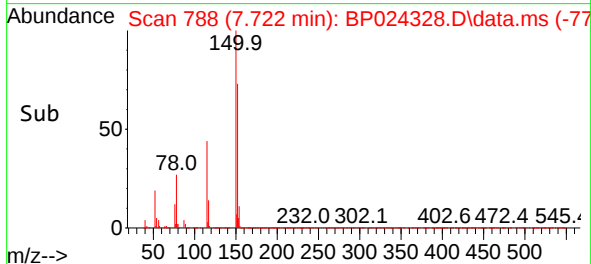
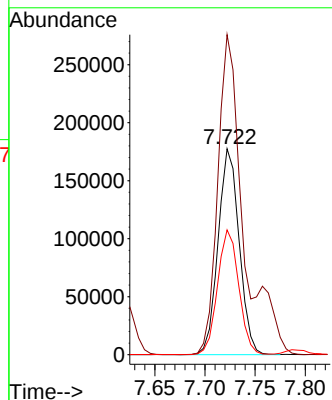
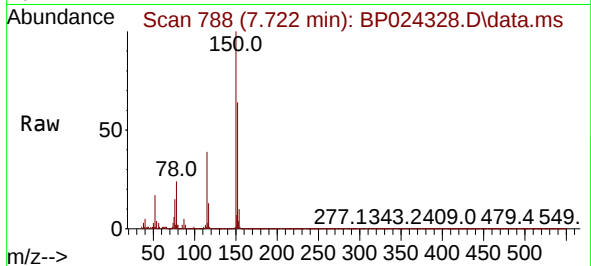




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.722 min Scan# 71  
 Delta R.T. -0.006 min  
 Lab File: BP024328.D  
 Acq: 17 Apr 2025 16:01

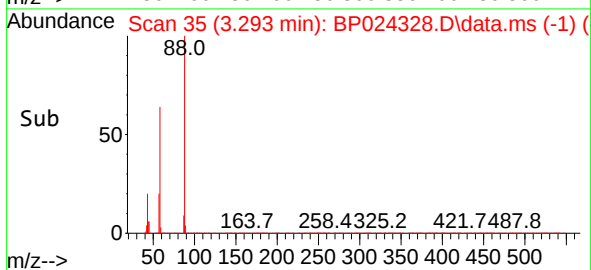
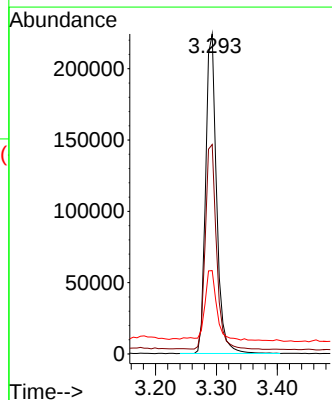
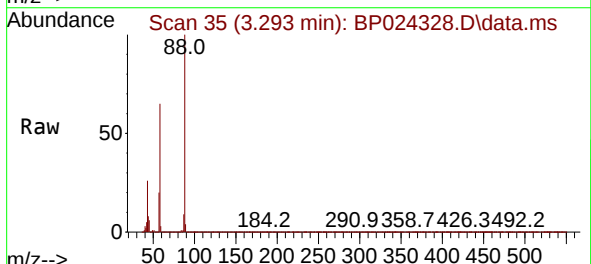
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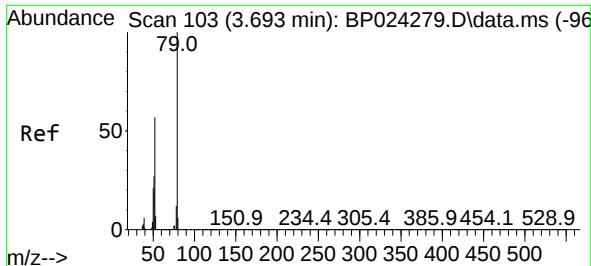
Tgt Ion:152 Resp: 259076  
 Ion Ratio Lower Upper  
 152 100  
 150 155.4 124.9 187.3  
 115 60.6 47.7 71.5



#2  
 1,4-Dioxane  
 Concen: 42.151 ng  
 RT: 3.293 min Scan# 35  
 Delta R.T. -0.000 min  
 Lab File: BP024328.D  
 Acq: 17 Apr 2025 16:01

Tgt Ion: 88 Resp: 279357  
 Ion Ratio Lower Upper  
 88 100  
 58 65.8 51.4 77.2  
 43 22.7 17.1 25.7

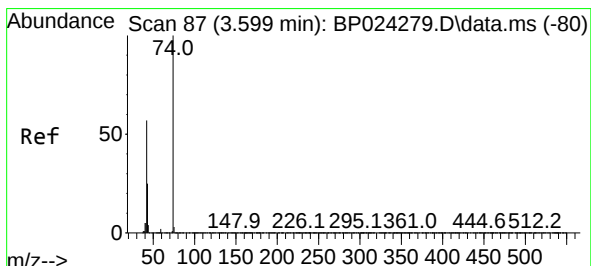
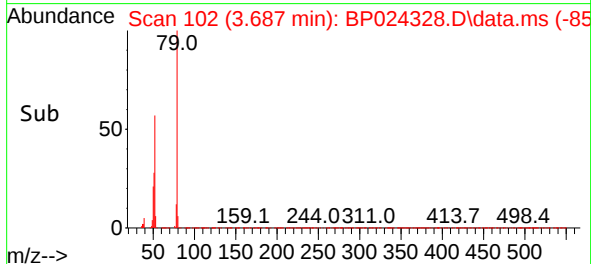
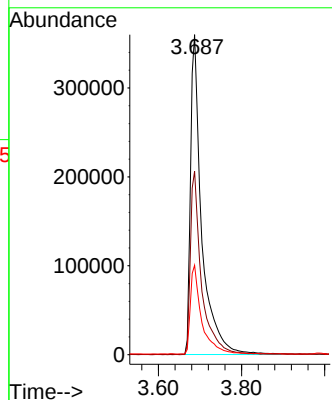
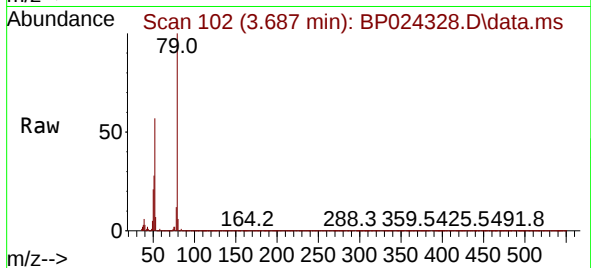




#3  
Pyridine  
Concen: 38.314 ng  
RT: 3.687 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

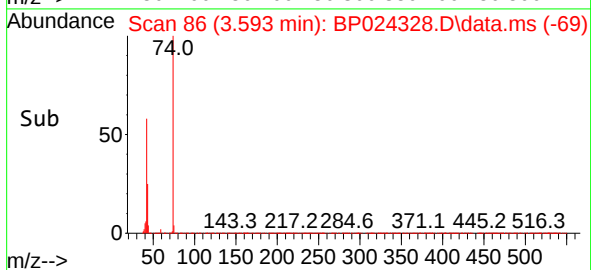
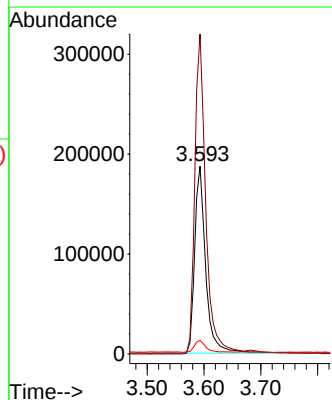
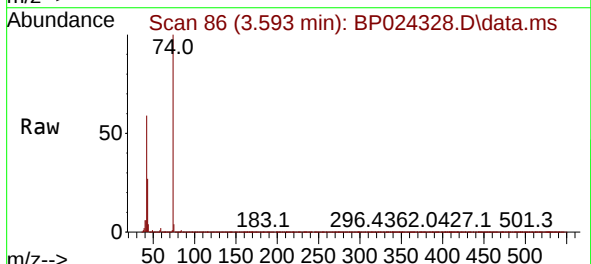
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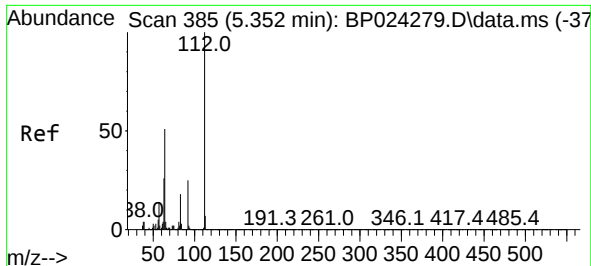
Tgt Ion: 79 Resp: 670524  
Ion Ratio Lower Upper  
79 100  
52 57.4 45.4 68.2  
51 27.9 22.6 33.8



#4  
n-Nitrosodimethylamine  
Concen: 43.772 ng  
RT: 3.593 min Scan# 86  
Delta R.T. -0.000 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion: 42 Resp: 254229  
Ion Ratio Lower Upper  
42 100  
74 170.6 139.5 209.3  
44 7.2 5.8 8.8

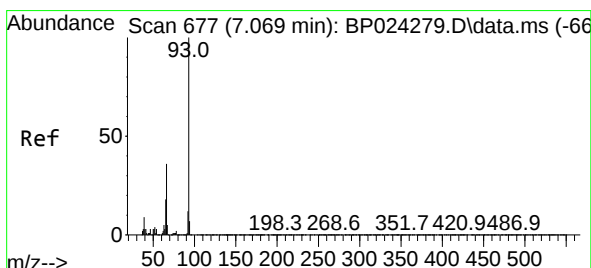
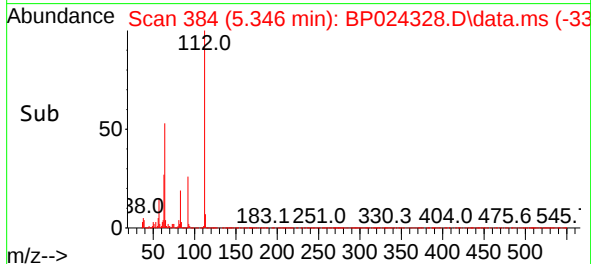
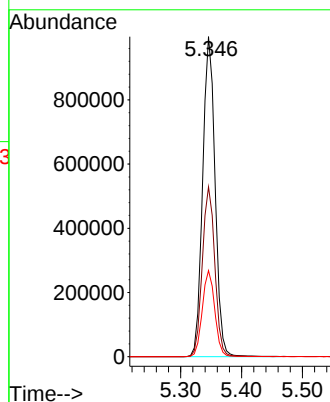
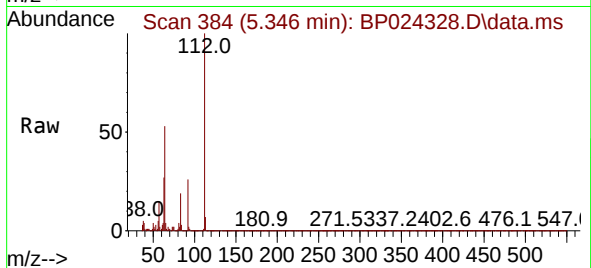




#5  
2-Fluorophenol  
Concen: 90.085 ng  
RT: 5.346 min Scan# 385  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

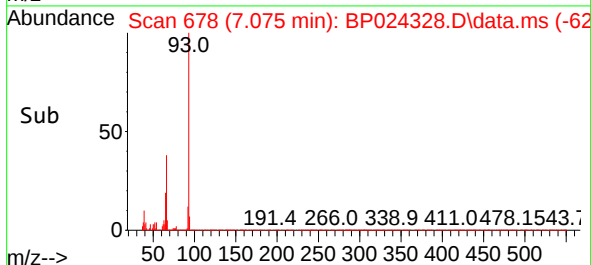
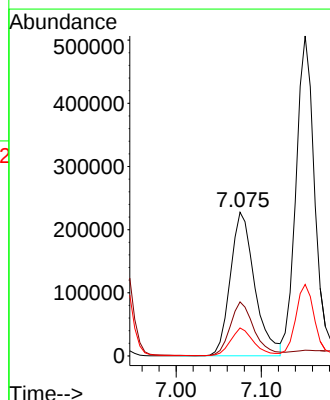
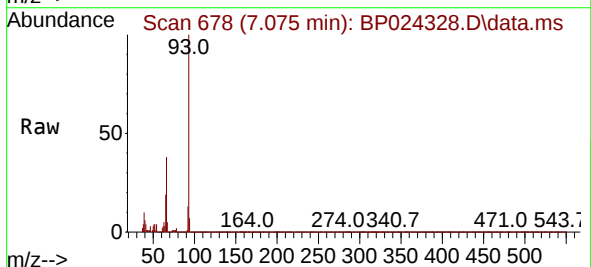
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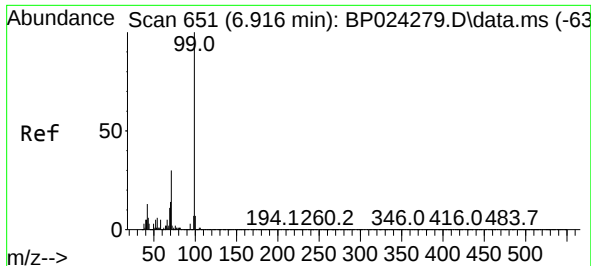
Tgt Ion:112 Resp: 1411522  
Ion Ratio Lower Upper  
112 100  
64 53.0 41.1 61.7  
63 26.9 20.6 30.8



#6  
Aniline  
Concen: 23.588 ng  
RT: 7.075 min Scan# 678  
Delta R.T. 0.006 min  
Lab File: BP024328.D  
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Tgt Ion: 93 Resp: 452225  
Ion Ratio Lower Upper  
93 100  
66 37.6 29.1 43.7  
65 19.4 14.7 22.1

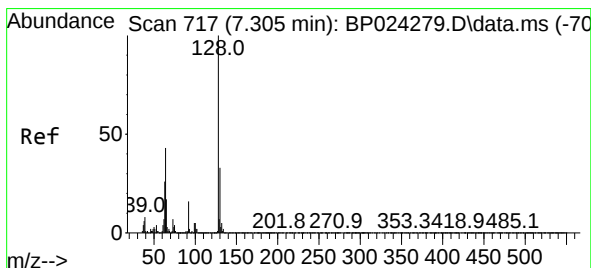
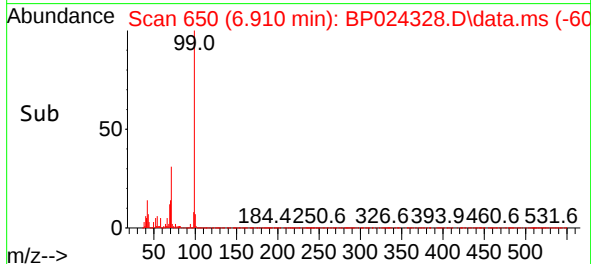
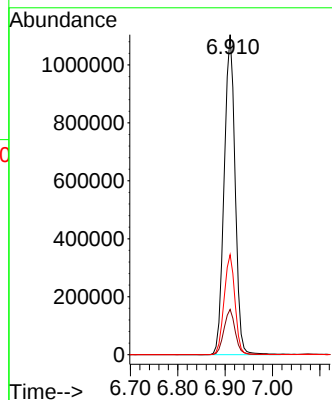
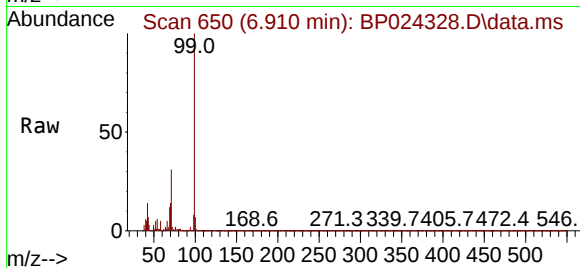




#7  
Phenol-d6  
Concen: 82.631 ng  
RT: 6.910 min Scan# 61  
Delta R.T. -0.006 min  
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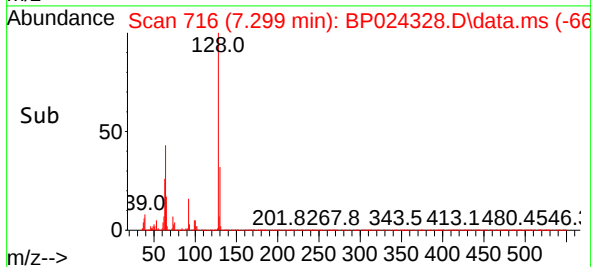
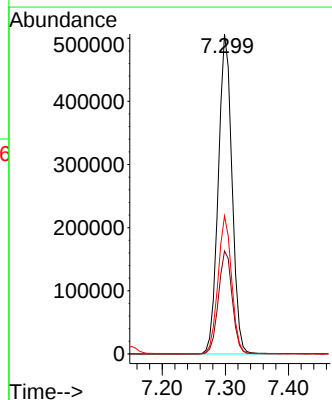
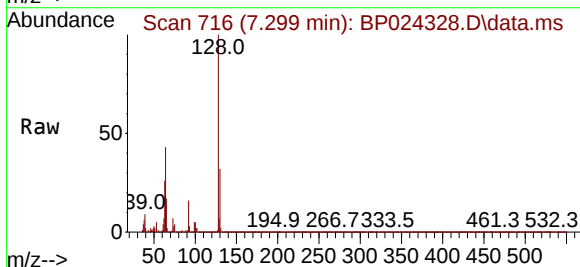
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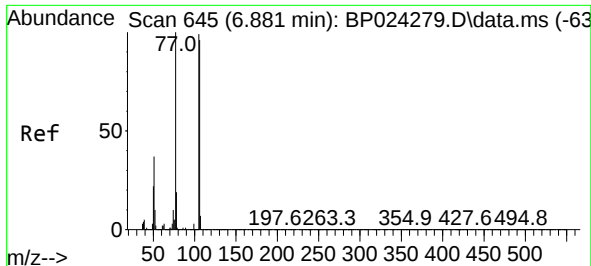
Tgt Ion: 99 Resp: 1772849  
Ion Ratio Lower Upper  
99 100  
42 14.1 10.6 16.0  
71 31.3 23.7 35.5



#8  
2-Chlorophenol  
Concen: 43.712 ng  
RT: 7.299 min Scan# 716  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:128 Resp: 764691  
Ion Ratio Lower Upper  
128 100  
130 32.2 12.9 52.9  
64 43.2 22.7 62.7

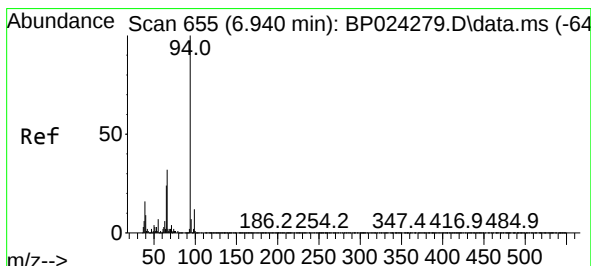
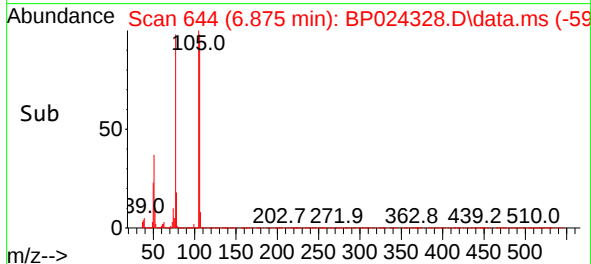
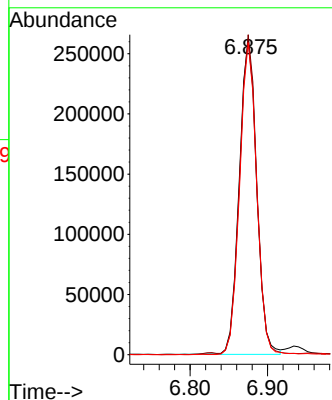
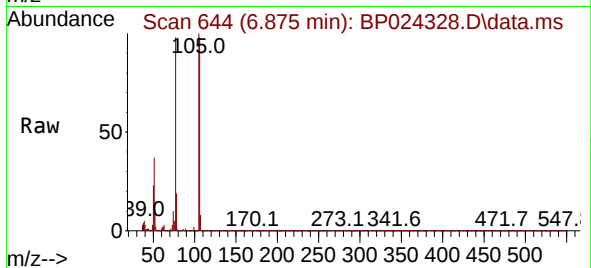




#9  
Benzaldehyde  
Concen: 38.471 ng  
RT: 6.875 min Scan# 645  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

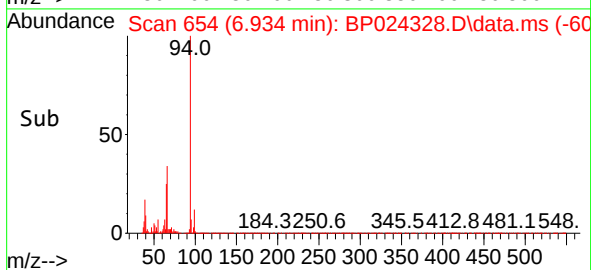
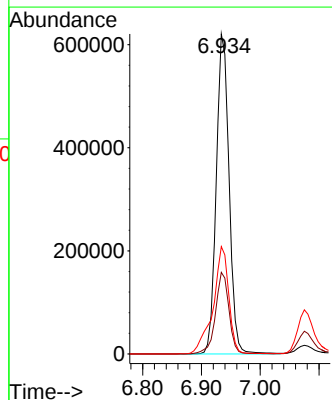
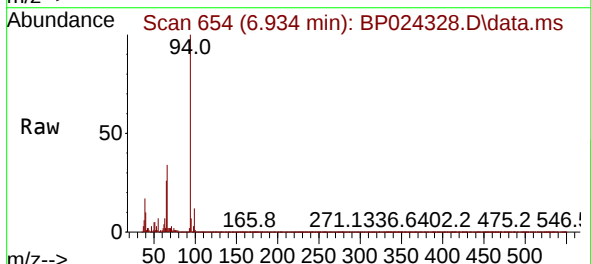
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BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

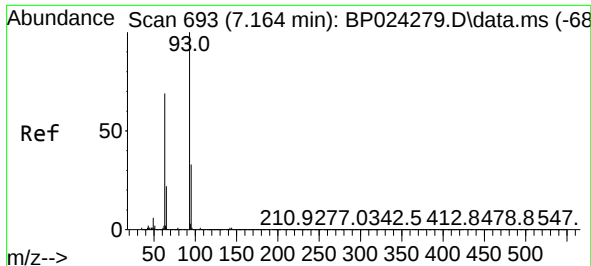
Tgt Ion: 77 Resp: 408288  
Ion Ratio Lower Upper  
77 100  
105 101.8 79.2 119.2  
106 99.3 76.2 116.2



#10  
Phenol  
Concen: 43.666 ng  
RT: 6.934 min Scan# 654  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion: 94 Resp: 939793  
Ion Ratio Lower Upper  
94 100  
65 25.5 4.5 44.5  
66 33.6 12.4 52.4

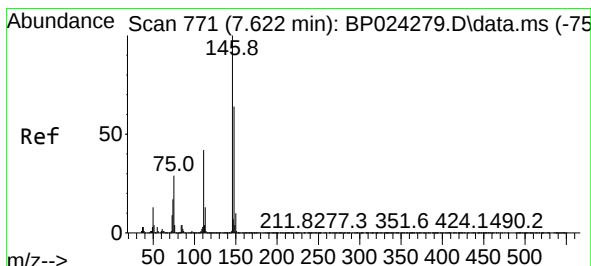
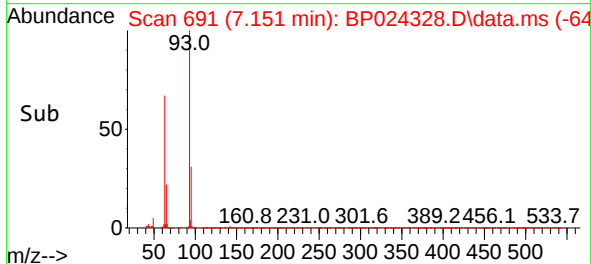
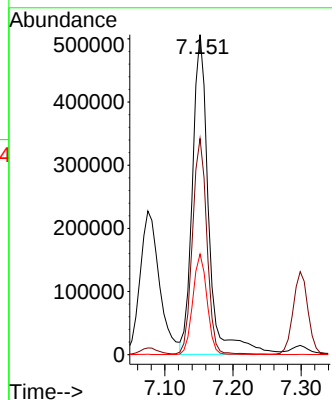
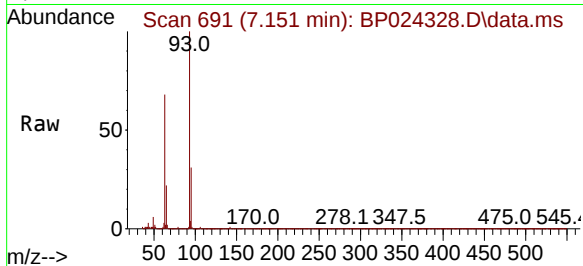




#11  
bis(2-Chloroethyl)ether  
Concen: 48.036 ng  
RT: 7.151 min Scan# 691  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

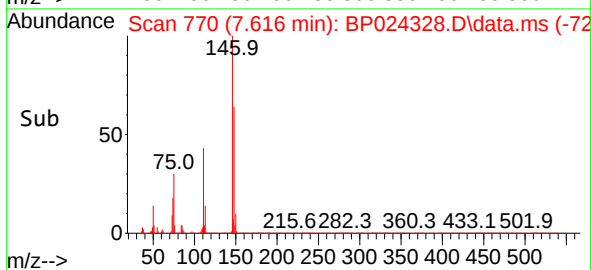
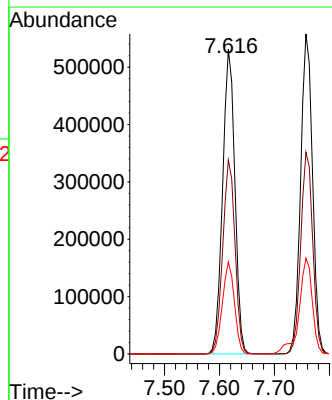
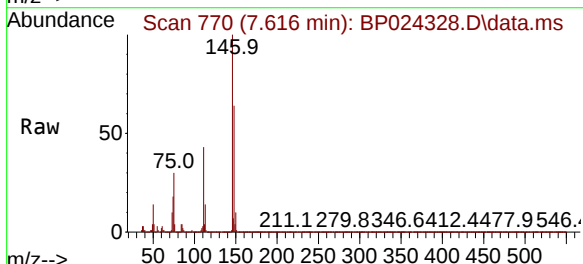
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

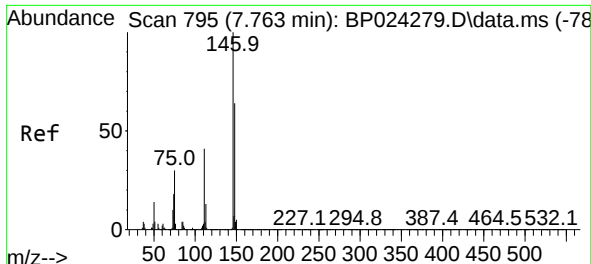
Tgt Ion: 93 Resp: 832977  
Ion Ratio Lower Upper  
93 100  
63 67.6 48.6 88.6  
95 31.5 12.3 52.3



#12  
1,3-Dichlorobenzene  
Concen: 43.701 ng  
RT: 7.616 min Scan# 770  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion: 146 Resp: 823041  
Ion Ratio Lower Upper  
146 100  
148 63.7 51.4 77.0  
75 30.3 22.9 34.3

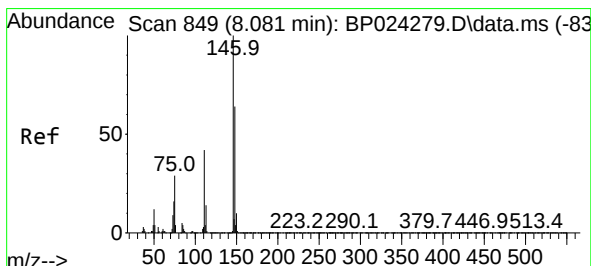
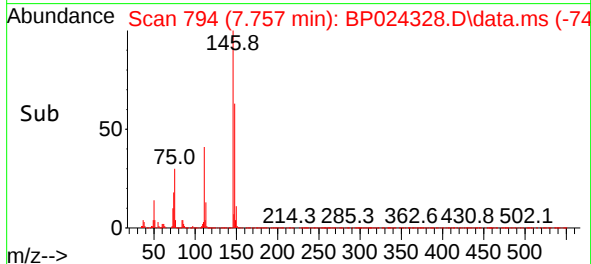
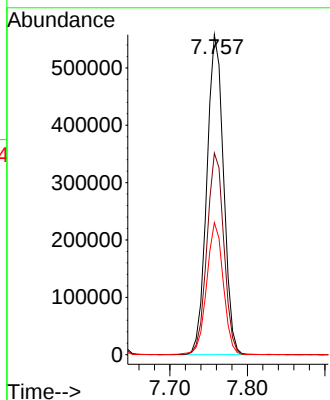
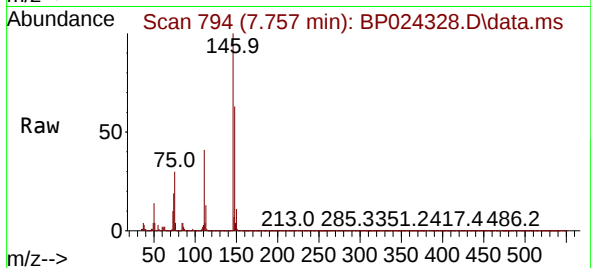




#13  
1,4-Dichlorobenzene  
Concen: 43.711 ng  
RT: 7.757 min Scan# 794  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

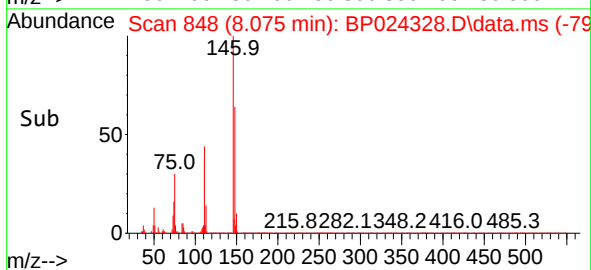
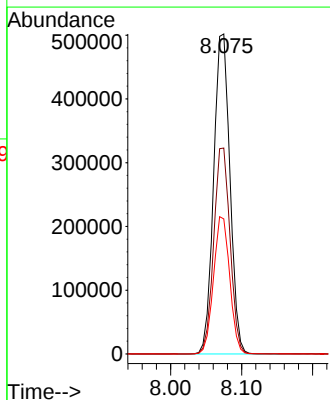
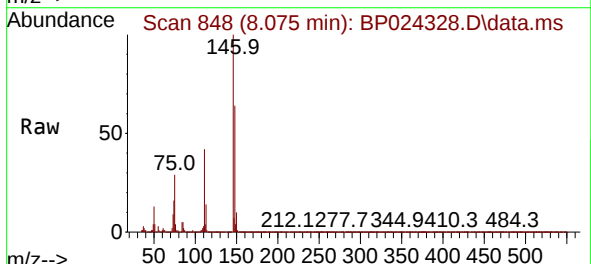
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BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

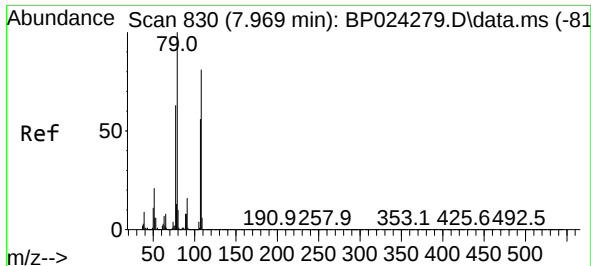
Tgt Ion:146 Resp: 835275  
Ion Ratio Lower Upper  
146 100  
148 63.0 51.1 76.7  
111 41.2 32.6 48.8



#14  
1,2-Dichlorobenzene  
Concen: 43.216 ng  
RT: 8.075 min Scan# 848  
Delta R.T. -0.000 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:146 Resp: 797424  
Ion Ratio Lower Upper  
146 100  
148 64.3 51.0 76.4  
111 42.2 33.8 50.8

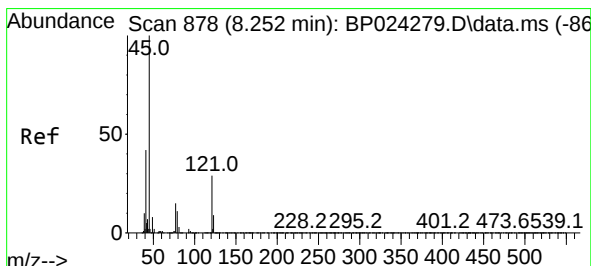
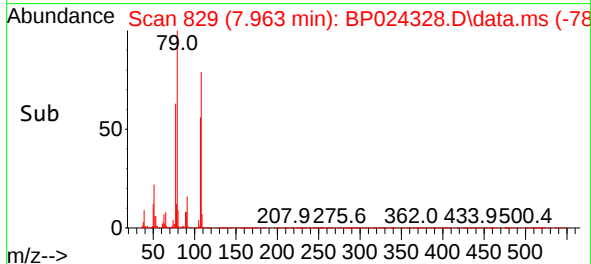
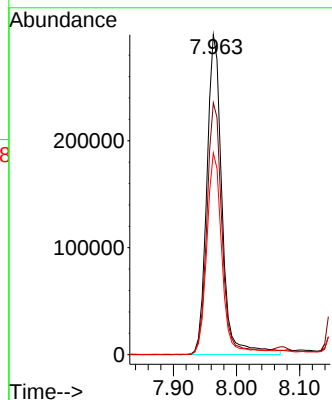
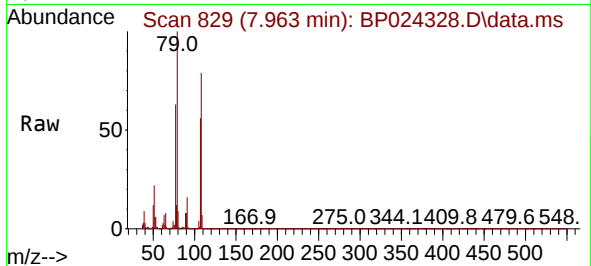




#15  
Benzyl Alcohol  
Concen: 35.955 ng  
RT: 7.963 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

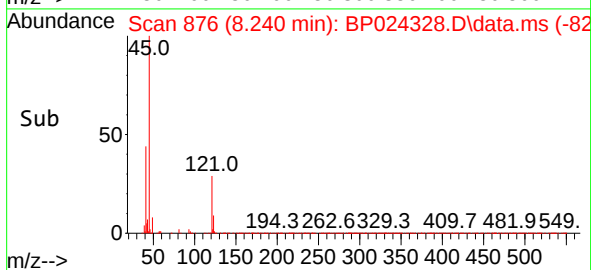
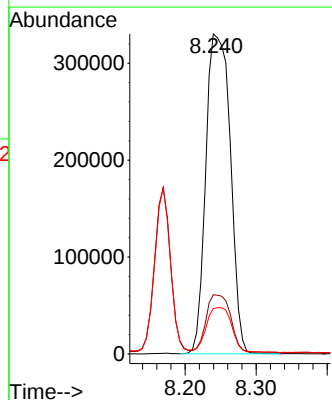
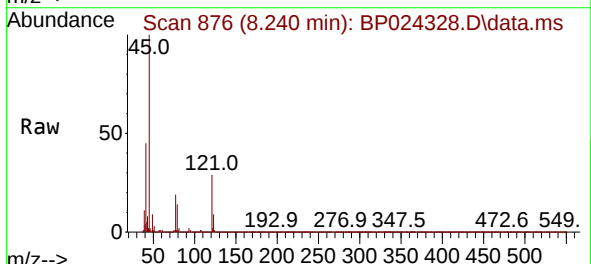
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

Tgt Ion: 79 Resp: 498870  
Ion Ratio Lower Upper  
79 100  
108 78.7 65.1 97.7  
77 63.1 50.7 76.1



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 42.149 ng  
RT: 8.240 min Scan# 876  
Delta R.T. -0.018 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion: 45 Resp: 790029  
Ion Ratio Lower Upper  
45 100  
77 18.5 0.0 37.7  
79 14.2 0.0 33.5

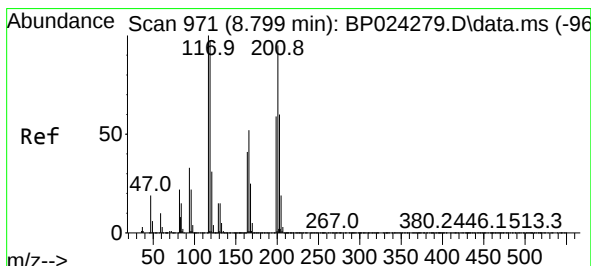
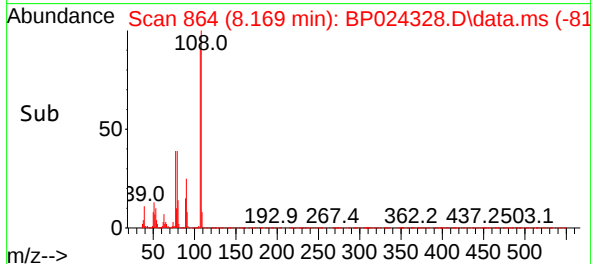
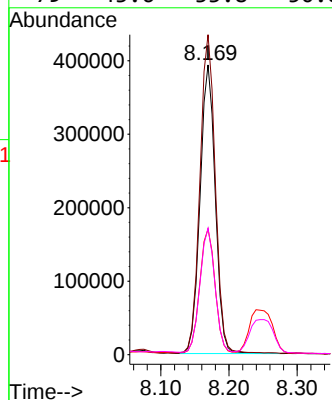
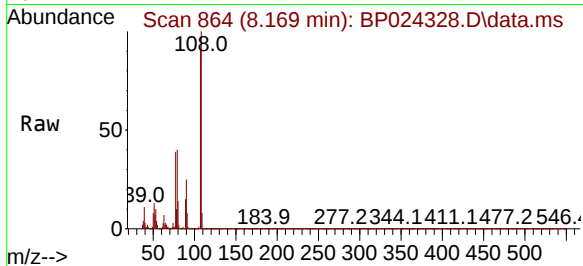




#17  
2-Methylphenol  
Concen: 43.703 ng  
RT: 8.169 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

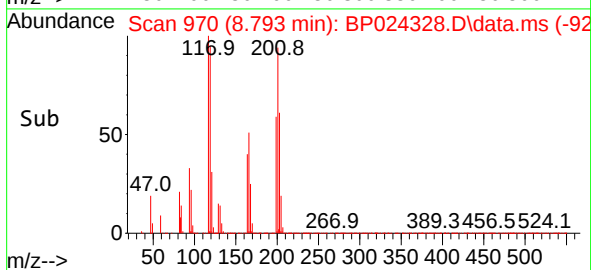
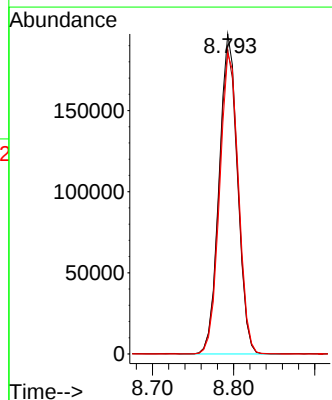
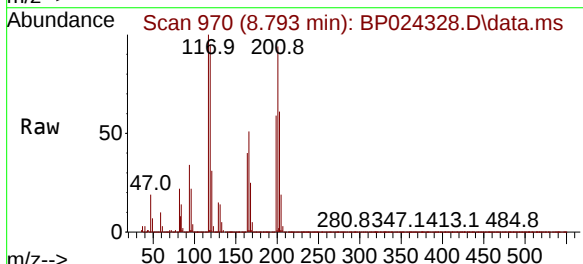
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

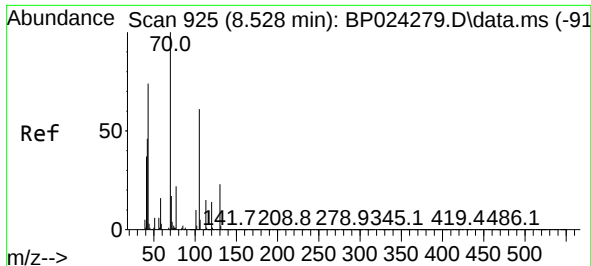
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 608476 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 110.5 | 89.8  | 134.6  |
| 77       | 43.4  | 34.2  | 51.4   |
| 79       | 43.6  | 33.8  | 50.8   |



#18  
Hexachloroethane  
Concen: 45.308 ng  
RT: 8.793 min Scan# 970  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 312887 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 95.1  | 77.8  | 116.6  |
| 201      | 93.9  | 75.9  | 113.9  |

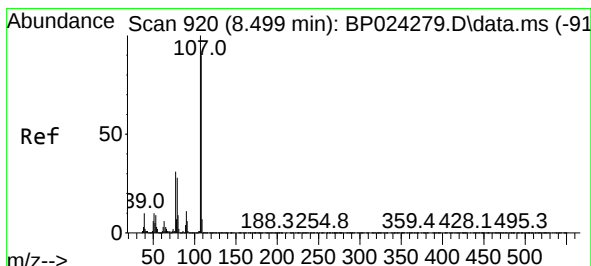
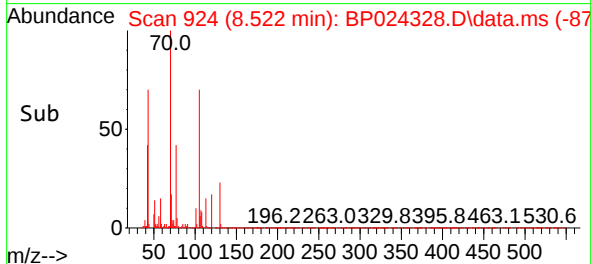
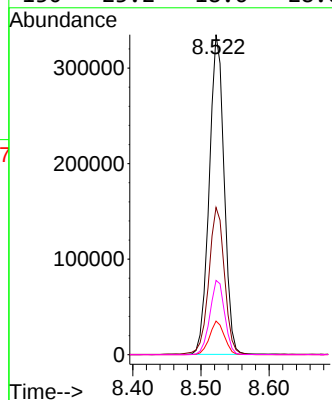
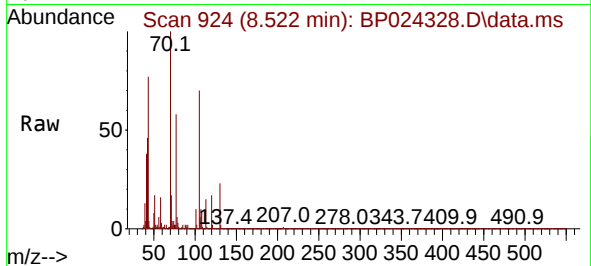




#19  
n-Nitroso-di-n-propylamine  
Concen: 38.290 ng  
RT: 8.522 min Scan# 919  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

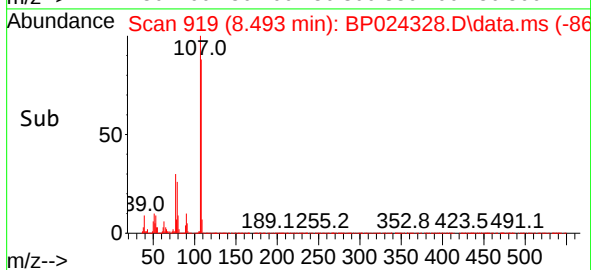
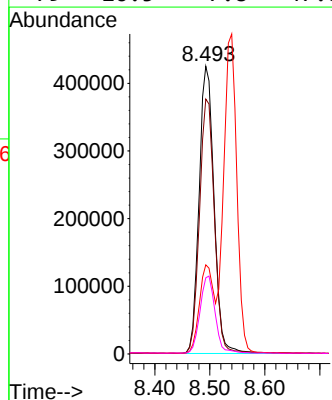
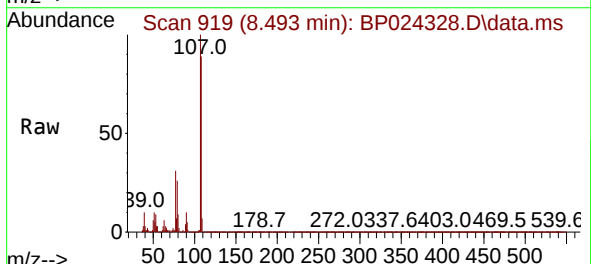
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BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

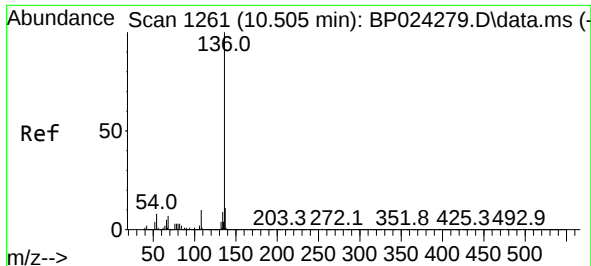
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 508237 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 46.0  | 37.3  | 55.9   |
| 101      | 10.5  | 8.2   | 12.4   |
| 130      | 23.2  | 18.6  | 28.0   |



#20  
3+4-Methylphenols  
Concen: 41.572 ng  
RT: 8.493 min Scan# 919  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 803121 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 88.6  | 69.8  | 109.8  |
| 77       | 31.0  | 11.5  | 51.5   |
| 79       | 26.5  | 7.8   | 47.8   |

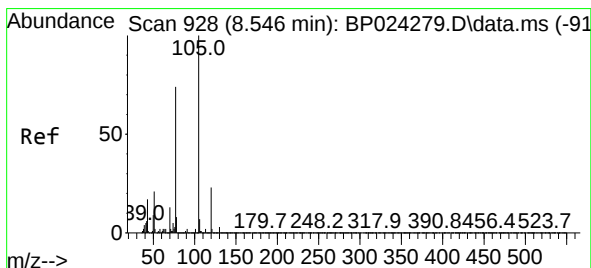
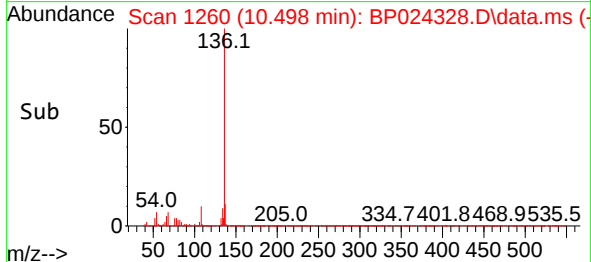
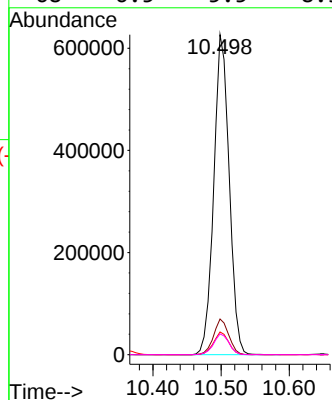
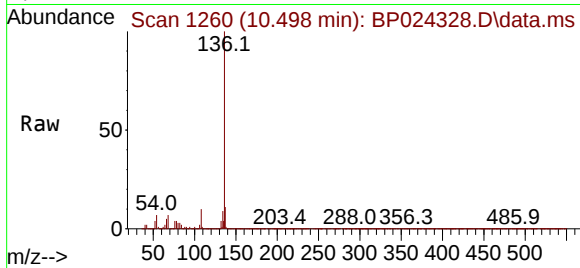




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.498 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

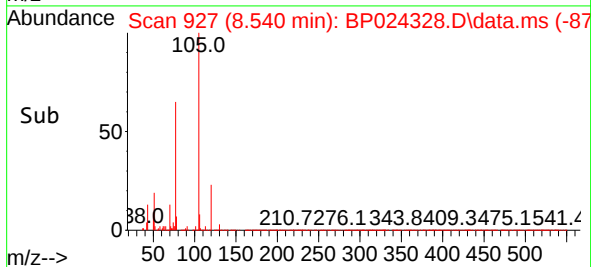
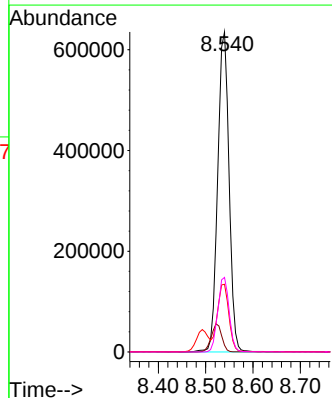
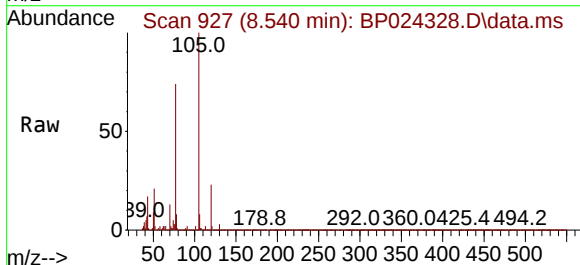
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BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

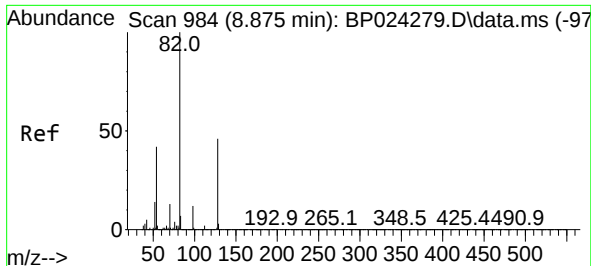
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 987151 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.2   | 13.8   |
| 54       | 7.1   | 6.0   | 9.0    |
| 68       | 6.5   | 5.5   | 8.3    |



#22  
Acetophenone  
Concen: 43.168 ng  
RT: 8.540 min Scan# 927  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 105   | Resp: | 1054706 |
| Ion      | Ratio | Lower | Upper   |
| 105      | 100   |       |         |
| 71       | 2.1   | 1.7   | 2.5     |
| 51       | 21.2  | 16.9  | 25.3    |
| 120      | 23.3  | 18.6  | 28.0    |

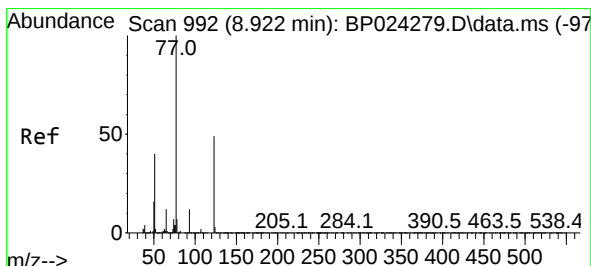
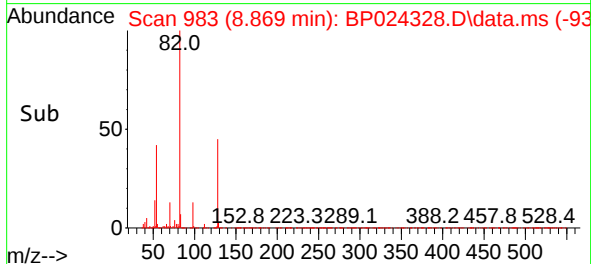
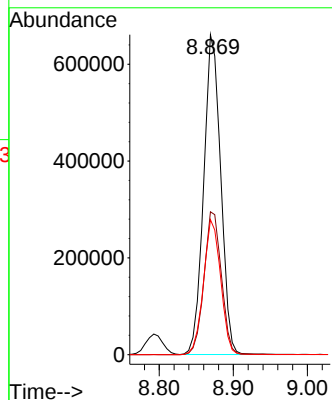
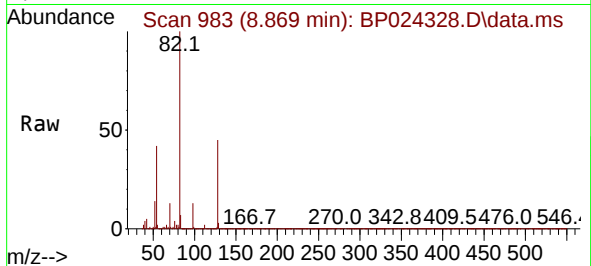




#23  
Nitrobenzene-d5  
Concen: 61.053 ng  
RT: 8.869 min Scan# 910  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

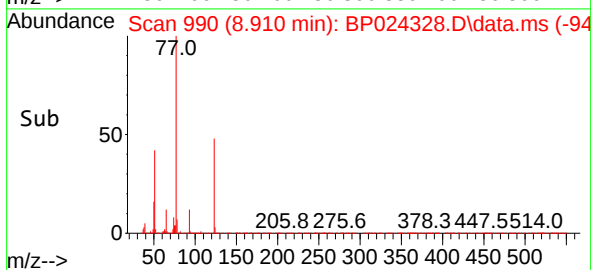
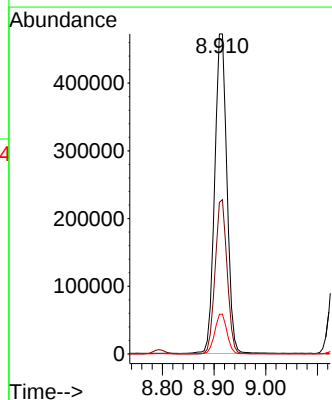
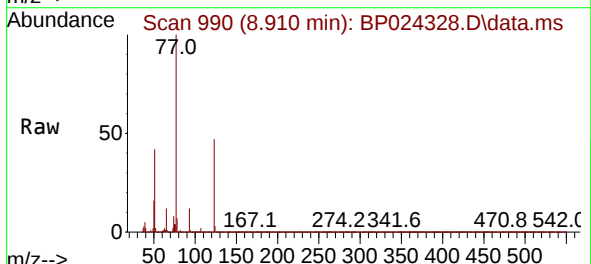
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BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

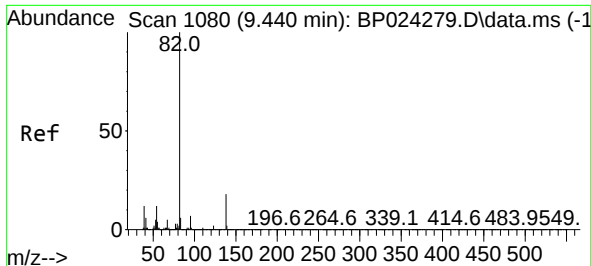
Tgt Ion: 82 Resp: 1056944  
Ion Ratio Lower Upper  
82 100  
128 44.6 36.5 54.7  
54 42.2 33.4 50.2



#24  
Nitrobenzene  
Concen: 45.227 ng  
RT: 8.910 min Scan# 990  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion: 77 Resp: 774549  
Ion Ratio Lower Upper  
77 100  
123 47.4 39.2 58.8  
65 12.4 9.8 14.6

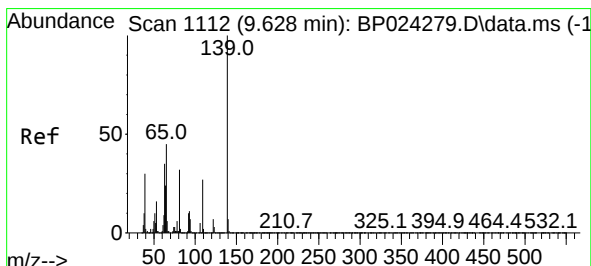
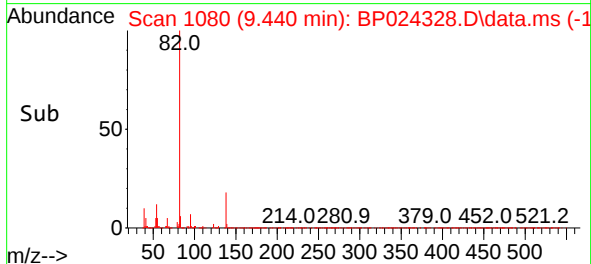
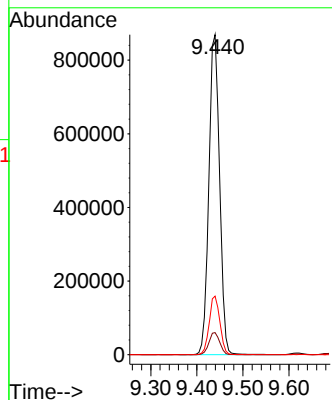
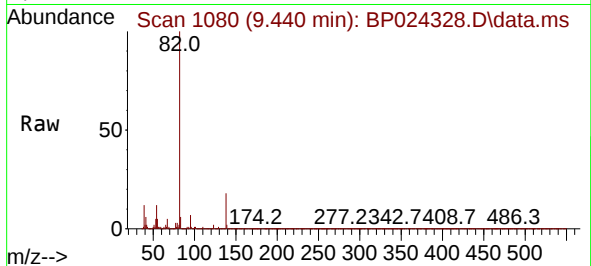




#25  
Isophorone  
Concen: 45.074 ng  
RT: 9.440 min Scan# 1080  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

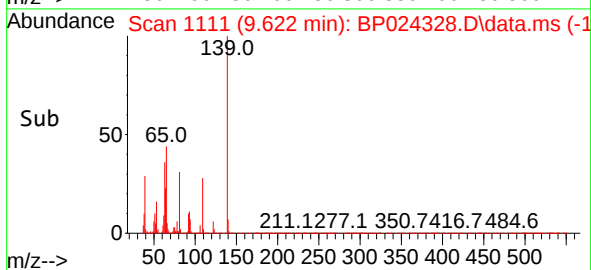
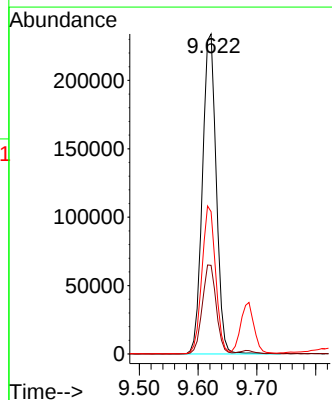
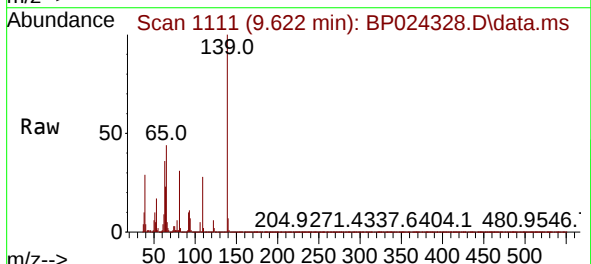
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

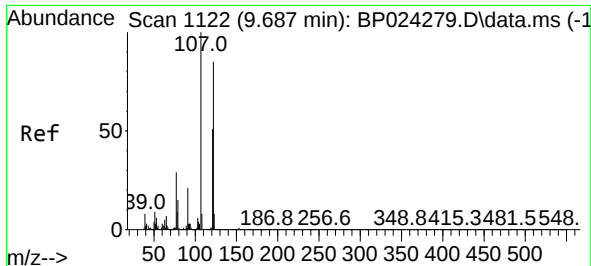
Tgt Ion: 82 Resp: 1412426  
Ion Ratio Lower Upper  
82 100  
95 6.9 5.4 8.2  
138 18.3 14.4 21.6



#26  
2-Nitrophenol  
Concen: 45.622 ng  
RT: 9.622 min Scan# 1111  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion: 139 Resp: 382361  
Ion Ratio Lower Upper  
139 100  
109 27.7 21.8 32.6  
65 44.5 36.2 54.2





#27

2,4-Dimethylphenol

Concen: 60.675 ng

RT: 9.687 min Scan# 1122

Delta R.T. -0.006 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

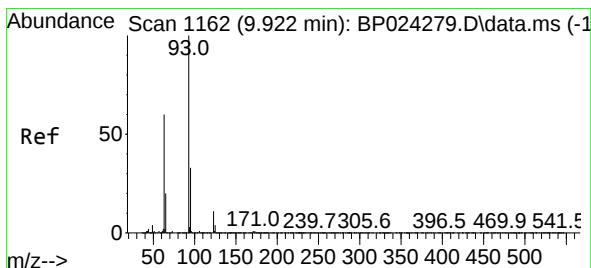
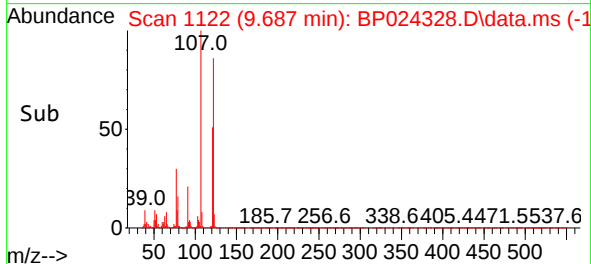
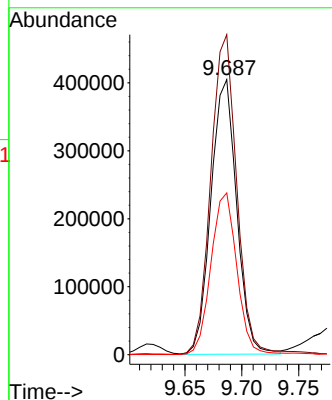
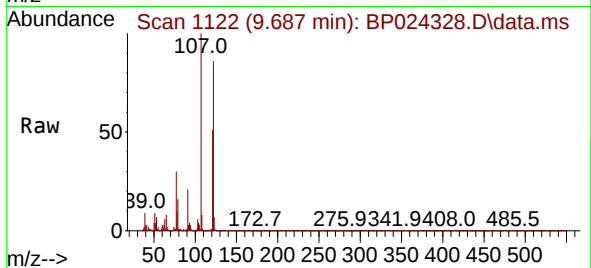
Tgt Ion:122 Resp: 638512

Ion Ratio Lower Upper

122 100

107 116.3 93.7 140.5

121 58.8 48.2 72.2



#28

bis(2-Chloroethoxy)methane

Concen: 41.768 ng

RT: 9.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

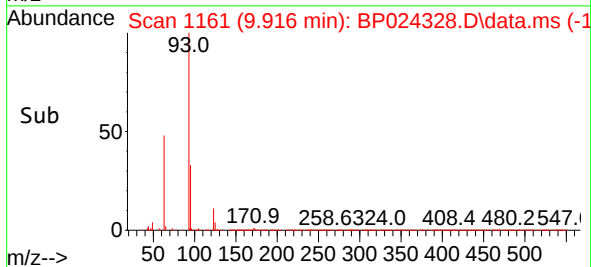
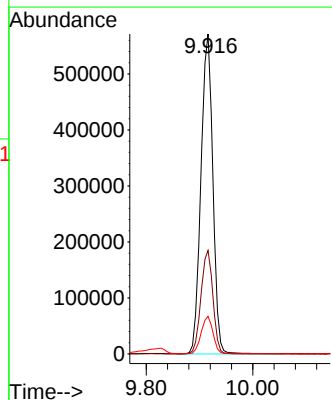
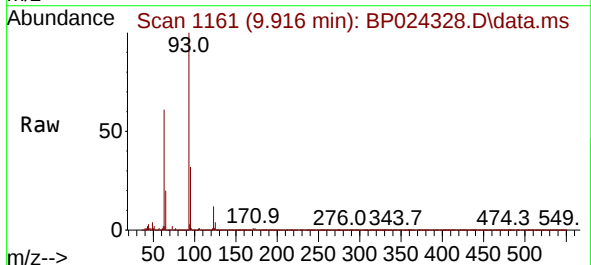
Tgt Ion: 93 Resp: 884167

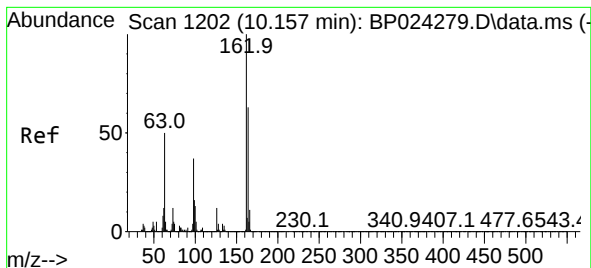
Ion Ratio Lower Upper

93 100

95 32.3 26.0 39.0

123 11.8 9.1 13.7

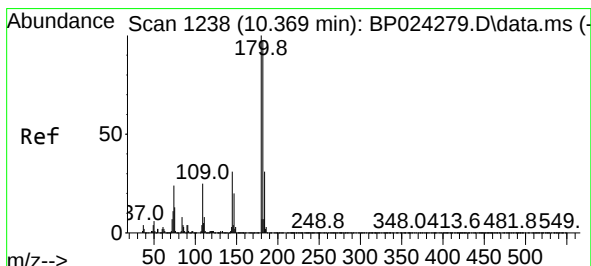
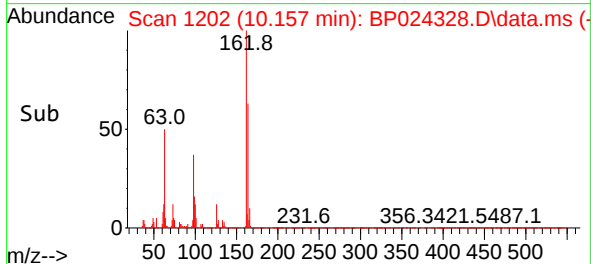
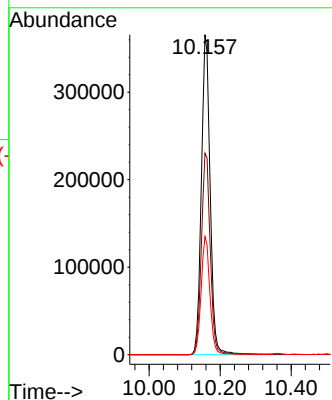
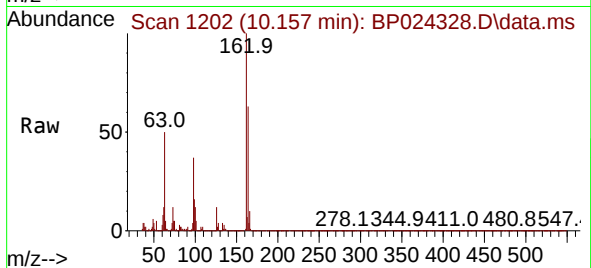




#29  
2,4-Dichlorophenol  
Concen: 43.914 ng  
RT: 10.157 min Scan# 1202  
Delta R.T. -0.000 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

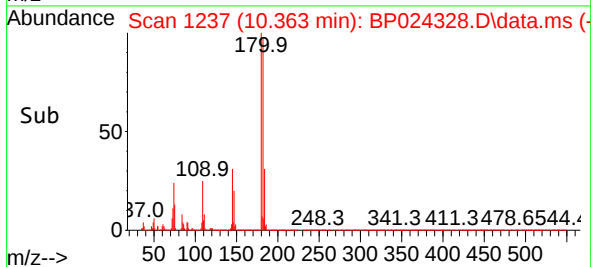
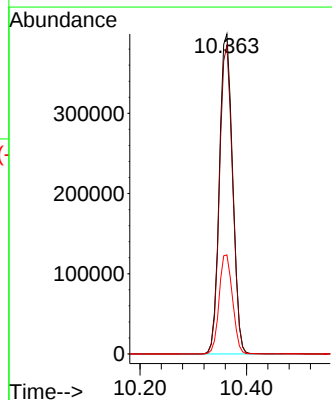
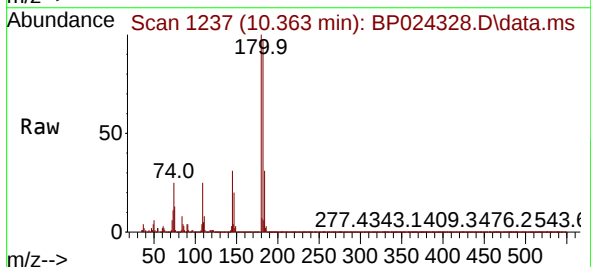
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

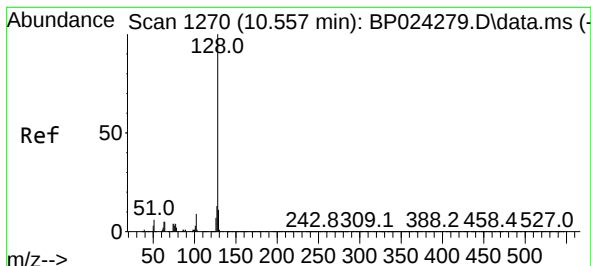
Tgt Ion:162 Resp: 630106  
Ion Ratio Lower Upper  
162 100  
164 63.0 43.3 83.3  
98 36.9 16.6 56.6



#30  
1,2,4-Trichlorobenzene  
Concen: 44.654 ng  
RT: 10.363 min Scan# 1237  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:180 Resp: 686480  
Ion Ratio Lower Upper  
180 100  
182 96.5 77.3 115.9  
145 31.0 25.1 37.7

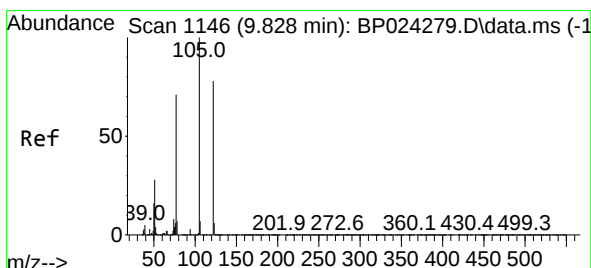
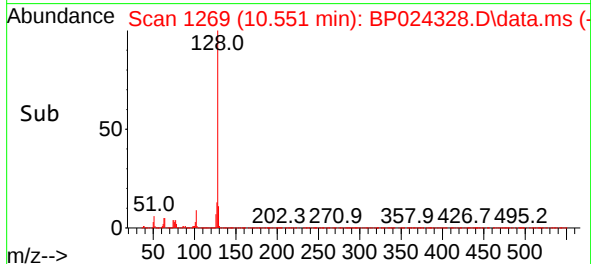
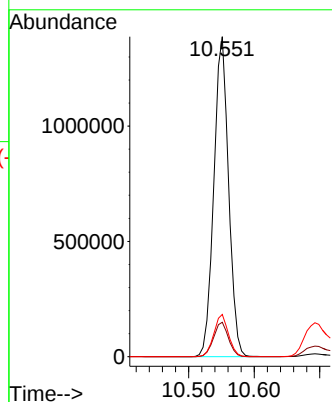
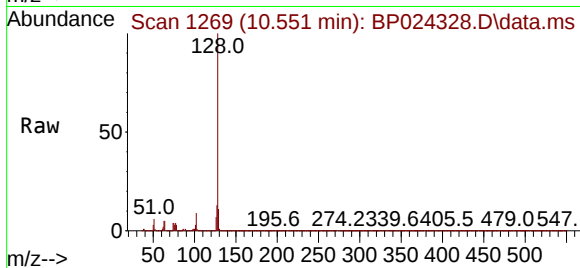




#31  
Naphthalene  
Concen: 41.543 ng  
RT: 10.551 min Scan# 1269  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

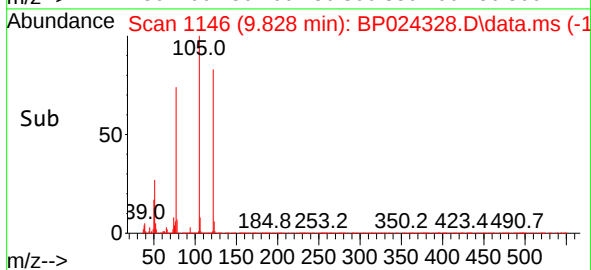
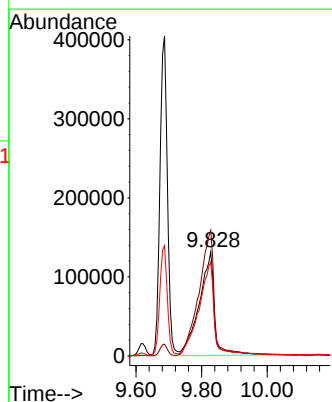
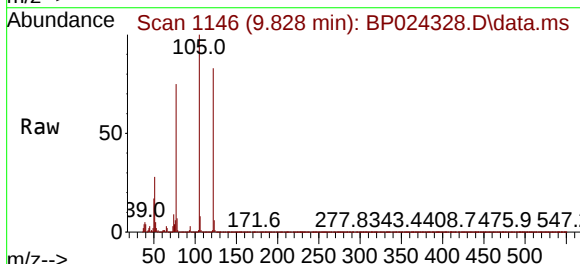
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

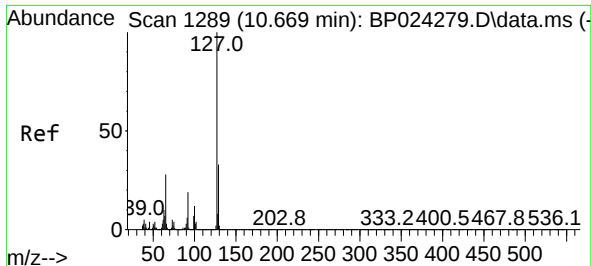
Tgt Ion:128 Resp: 2160233  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.6 13.0  
127 13.2 10.3 15.5



#32  
Benzoic acid  
Concen: 34.398 ng  
RT: 9.828 min Scan# 1146  
Delta R.T. -0.047 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:122 Resp: 421792  
Ion Ratio Lower Upper  
122 100  
105 121.0 104.8 144.8  
77 90.3 69.2 109.2



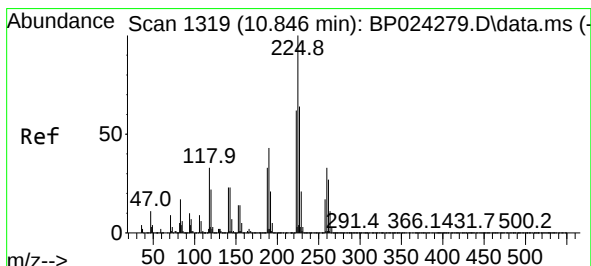
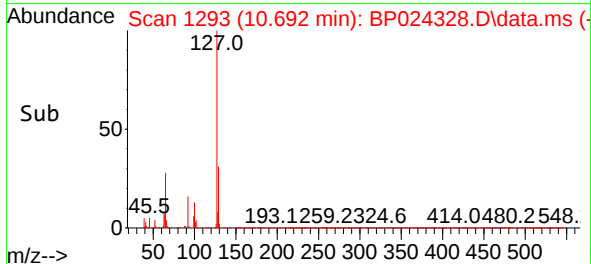
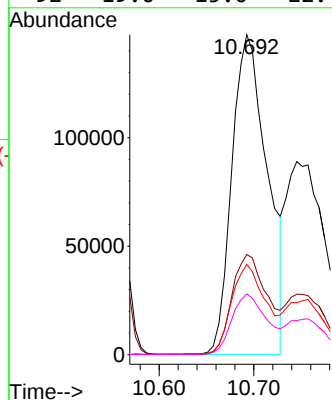
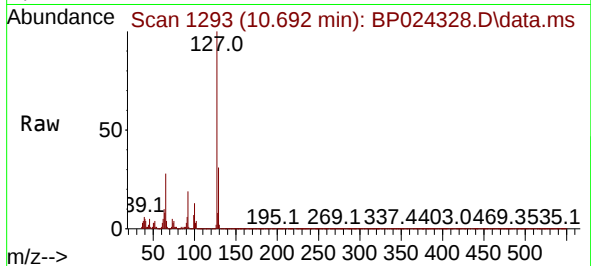


#33  
4-Chloroaniline  
Concen: 20.890 ng  
RT: 10.692 min Scan# 11  
Delta R.T. 0.023 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

Tgt Ion:127 Resp: 382544

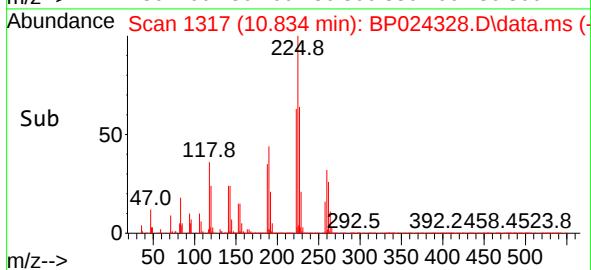
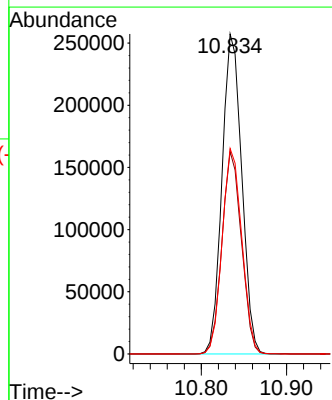
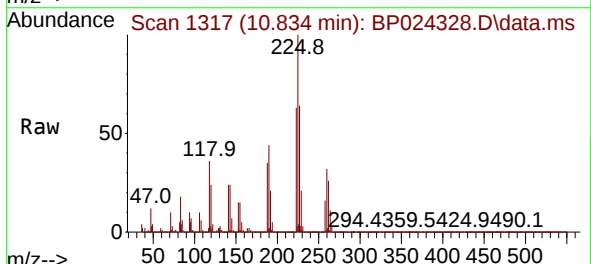
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 127 | 100   |       |       |
| 129 | 31.3  | 26.1  | 39.1  |
| 65  | 28.2  | 22.1  | 33.1  |
| 92  | 19.0  | 15.0  | 22.4  |

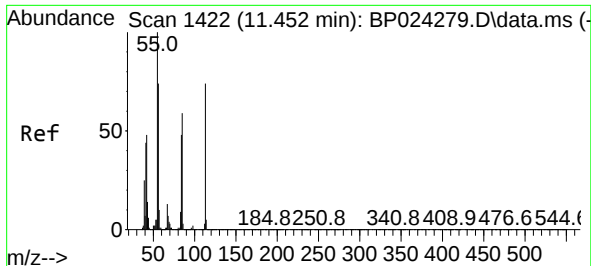


#34  
Hexachlorobutadiene  
Concen: 45.760 ng  
RT: 10.834 min Scan# 1317  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:225 Resp: 413390

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 63.3  | 49.5  | 74.3  |
| 227 | 64.2  | 50.9  | 76.3  |

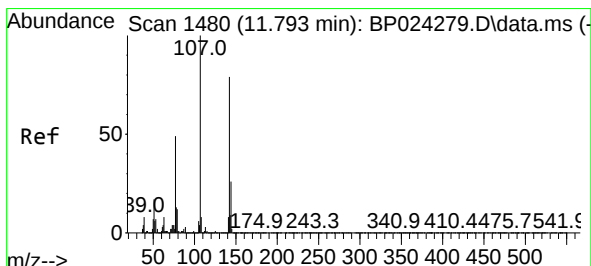
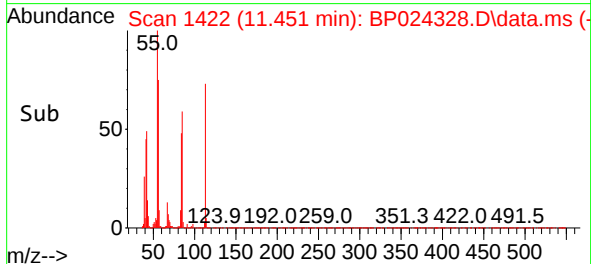
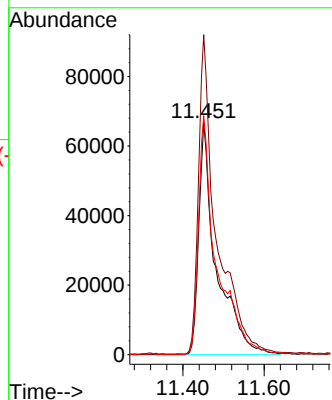
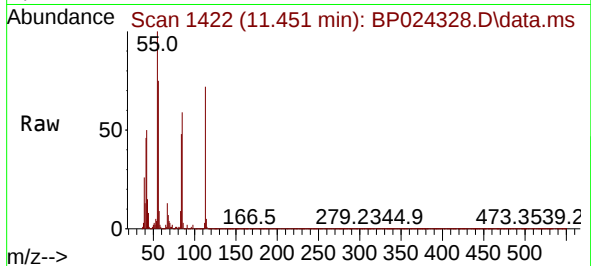




#35  
Caprolactam  
Concen: 38.136 ng  
RT: 11.451 min Scan# 1422  
Delta R.T. -0.030 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

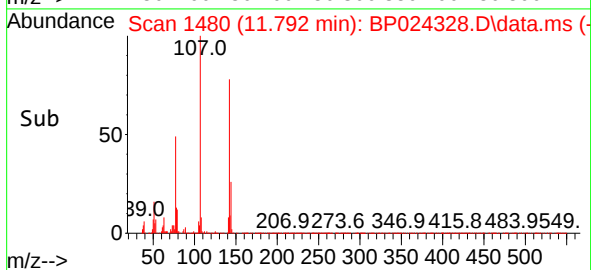
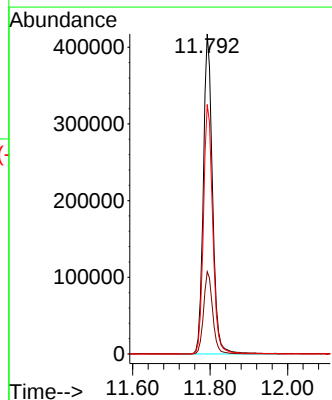
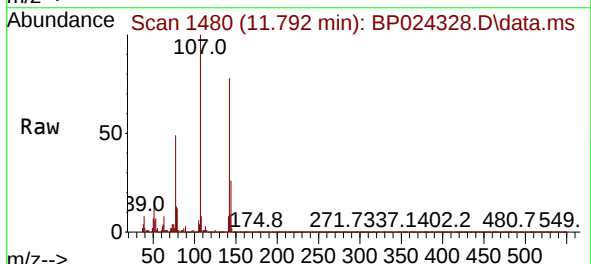
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

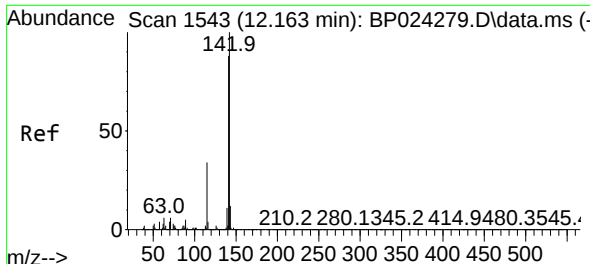
Tgt Ion:113 Resp: 201906  
Ion Ratio Lower Upper  
113 100  
55 137.9 115.9 155.9  
56 103.1 81.1 121.1



#36  
4-Chloro-3-methylphenol  
Concen: 40.930 ng  
RT: 11.792 min Scan# 1480  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:107 Resp: 684062  
Ion Ratio Lower Upper  
107 100  
144 25.7 20.5 30.7  
142 77.9 63.4 95.2

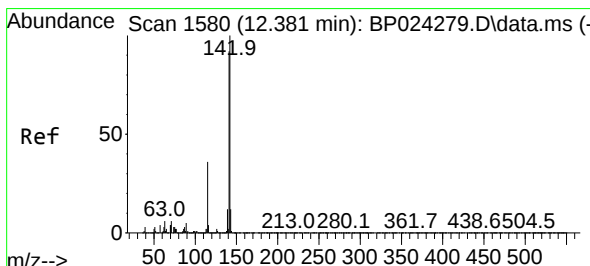
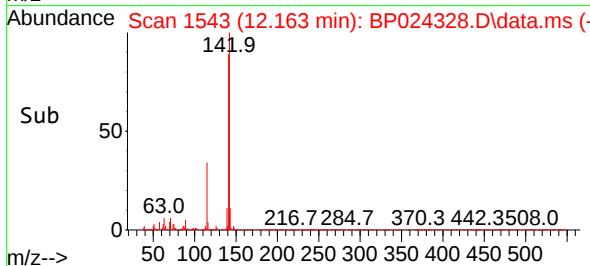
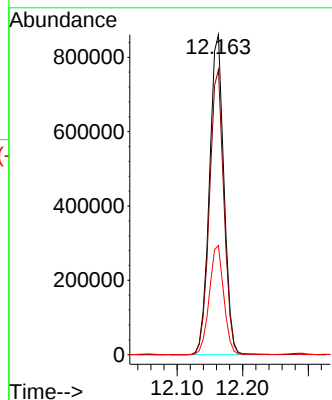
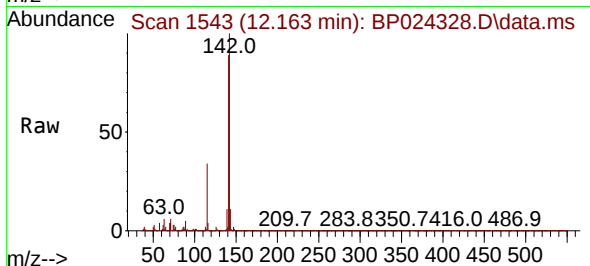




#37  
2-Methylnaphthalene  
Concen: 36.631 ng  
RT: 12.163 min Scan# 1543  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

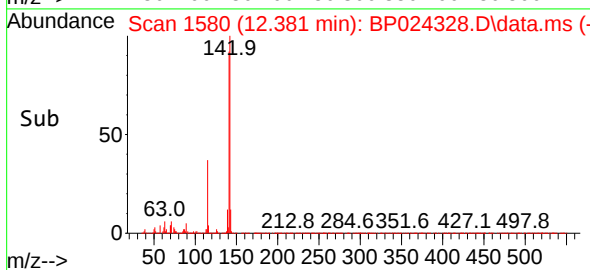
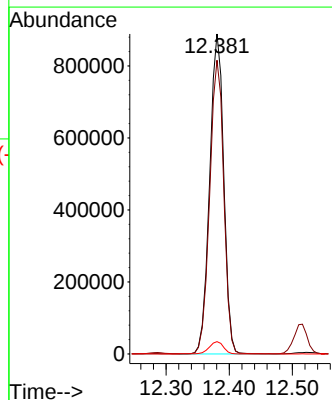
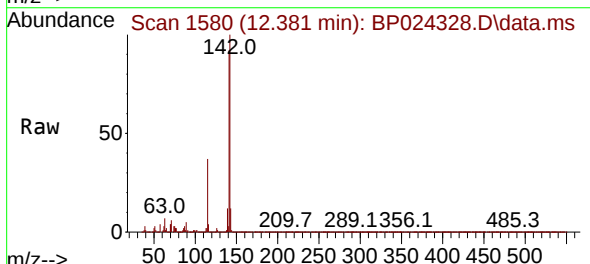
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

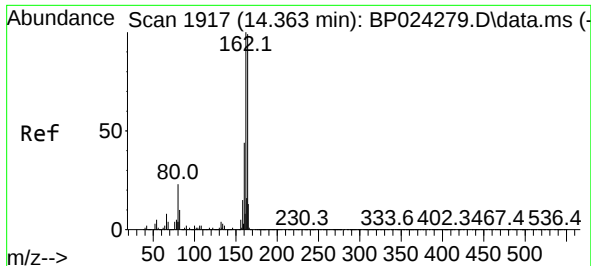
Tgt Ion:142 Resp: 1320999  
Ion Ratio Lower Upper  
142 100  
141 89.0 70.3 105.5  
115 34.1 26.9 40.3



#38  
1-Methylnaphthalene  
Concen: 38.930 ng  
RT: 12.381 min Scan# 1580  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:142 Resp: 1373415  
Ion Ratio Lower Upper  
142 100  
141 91.8 73.6 110.4  
116 3.8 3.0 4.6

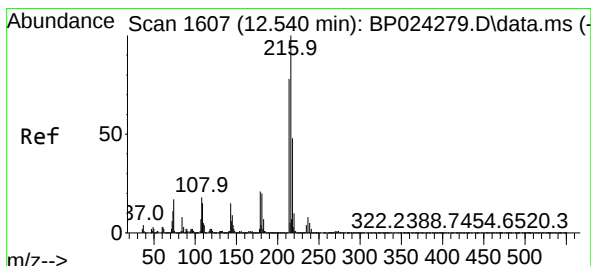
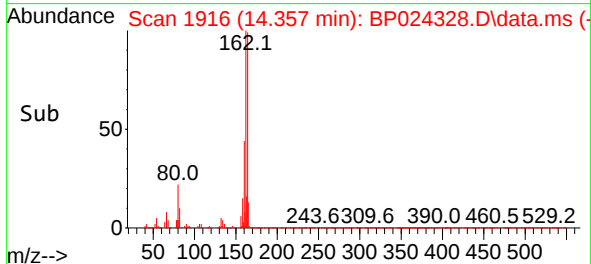
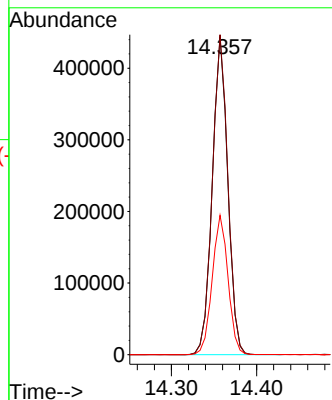
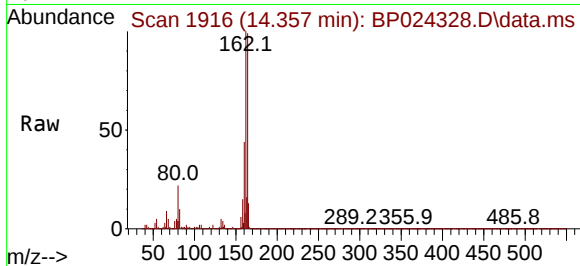




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.357 min Scan# 1916  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

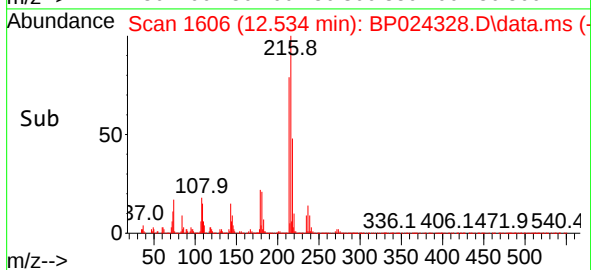
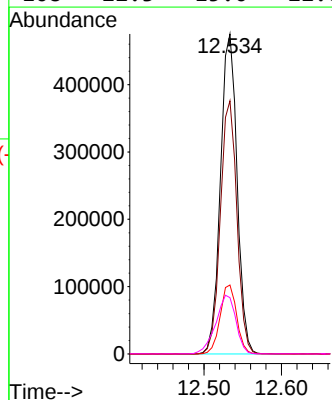
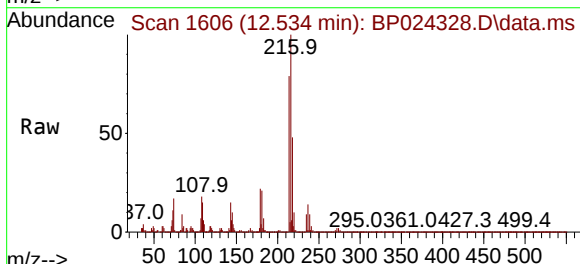
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

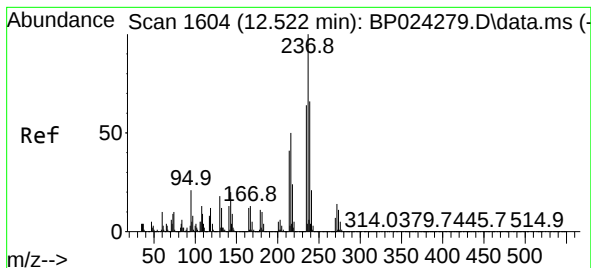
Tgt Ion:164 Resp: 562727  
Ion Ratio Lower Upper  
164 100  
162 100.6 80.6 120.8  
160 43.8 35.3 52.9



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 45.876 ng  
RT: 12.534 min Scan# 1606  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:216 Resp: 709931  
Ion Ratio Lower Upper  
216 100  
214 78.8 62.6 93.8  
179 21.5 17.2 25.8  
108 22.3 15.0 22.6

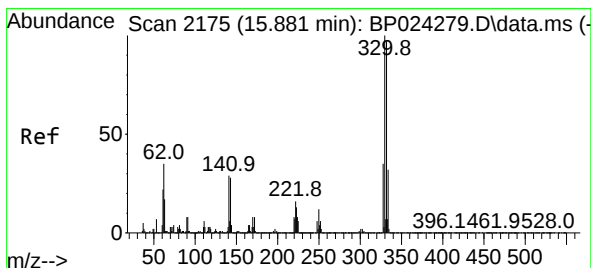
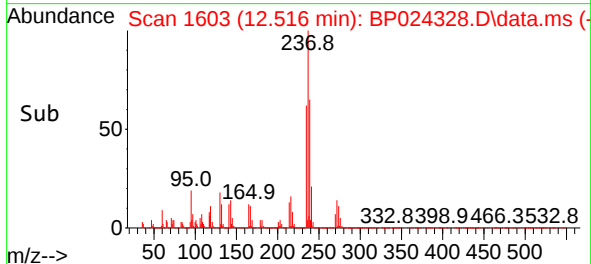
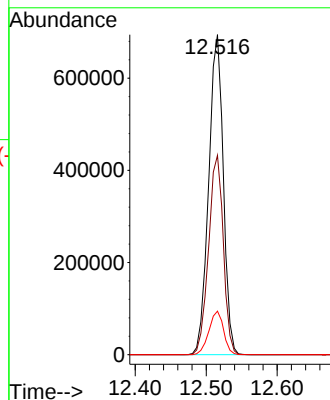
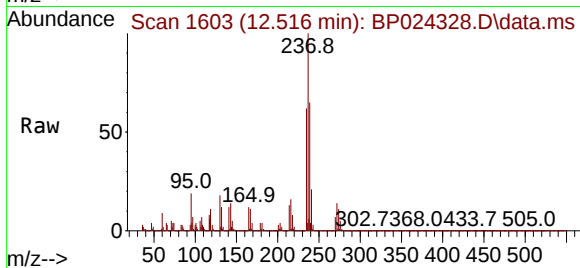




#41  
Hexachlorocyclopentadiene  
Concen: 181.972 ng  
RT: 12.516 min Scan# 1  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

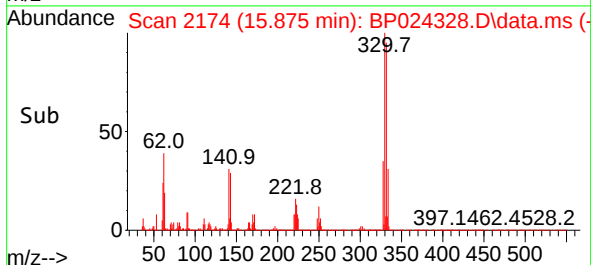
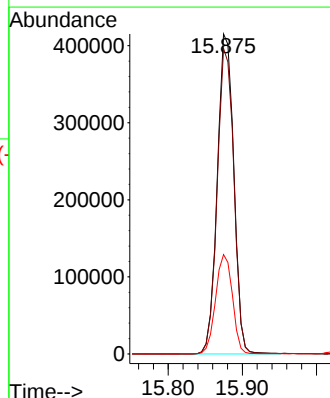
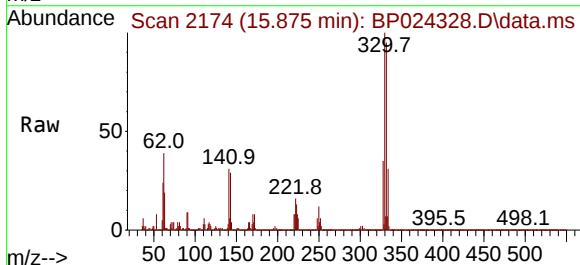
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

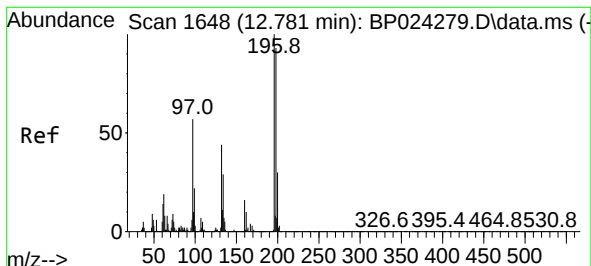
Tgt Ion:237 Resp: 995952  
Ion Ratio Lower Upper  
237 100  
235 62.3 43.9 83.9  
272 13.6 0.0 33.6



#42  
2,4,6-Tribromophenol  
Concen: 82.593 ng  
RT: 15.875 min Scan# 2174  
Delta R.T. -0.018 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:330 Resp: 643036  
Ion Ratio Lower Upper  
330 100  
332 96.0 77.1 115.7  
141 31.5 24.7 37.1





#43

2,4,6-Trichlorophenol

Concen: 45.836 ng

RT: 12.781 min Scan# 1

Delta R.T. -0.006 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

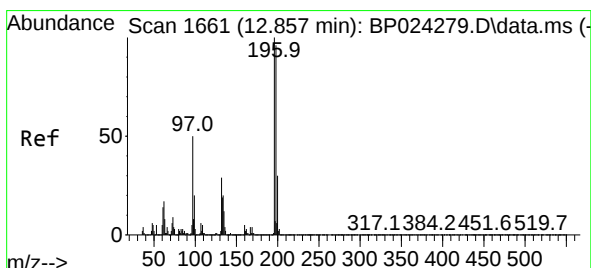
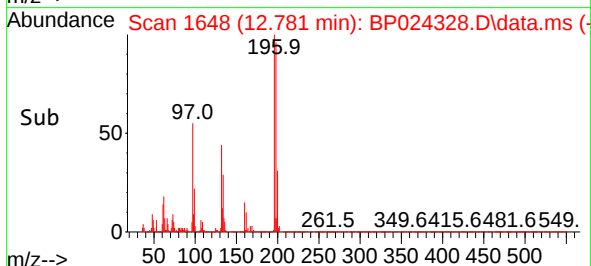
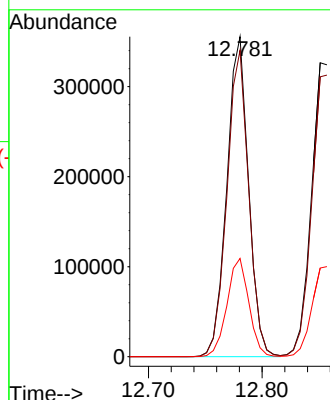
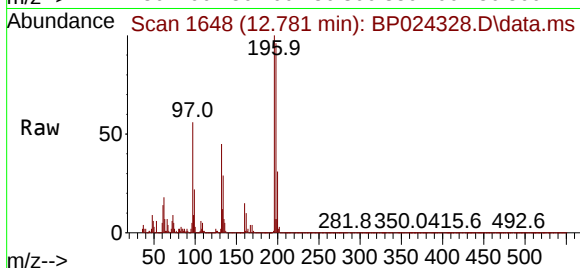
Tgt Ion:196 Resp: 471589

Ion Ratio Lower Upper

196 100

198 95.8 74.3 111.5

200 30.7 24.0 36.0



#44

2,4,5-Trichlorophenol

Concen: 44.938 ng

RT: 12.851 min Scan# 1660

Delta R.T. -0.018 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Tgt Ion:196 Resp: 511995

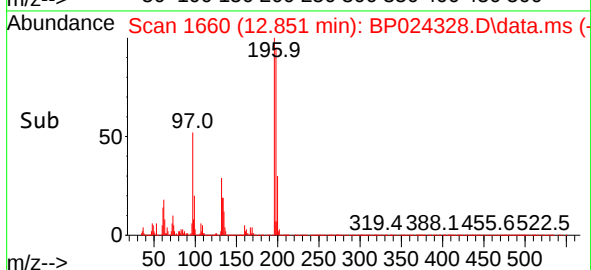
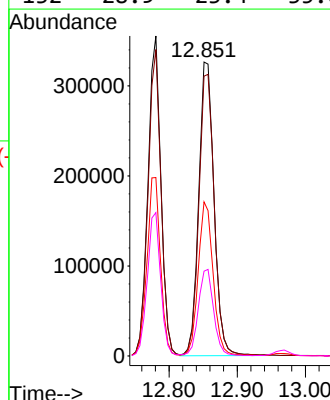
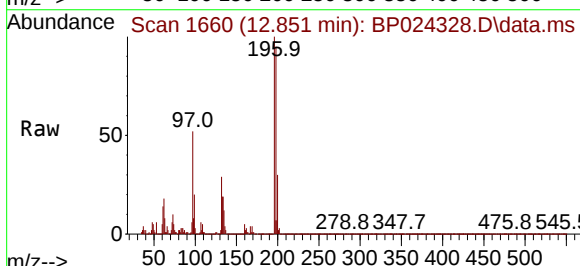
Ion Ratio Lower Upper

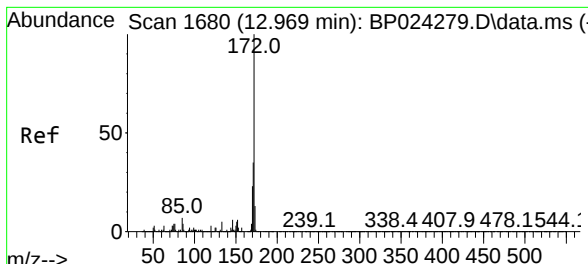
196 100

198 95.2 77.3 115.9

97 52.4 40.4 60.6

132 28.9 23.4 35.0

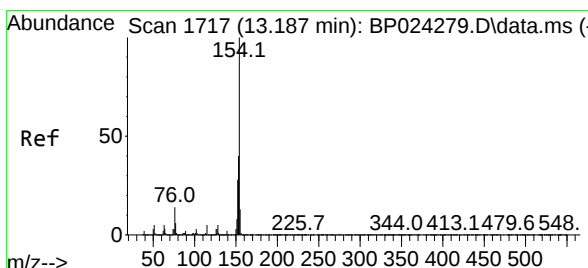
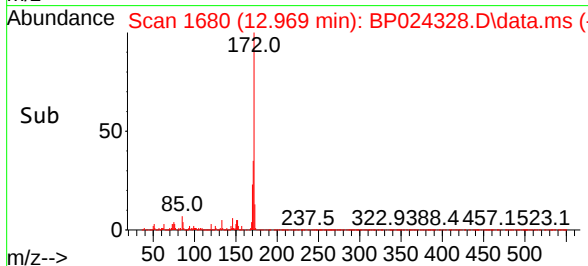
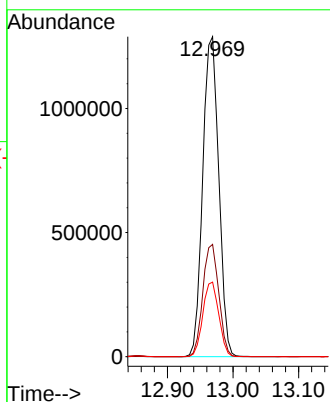
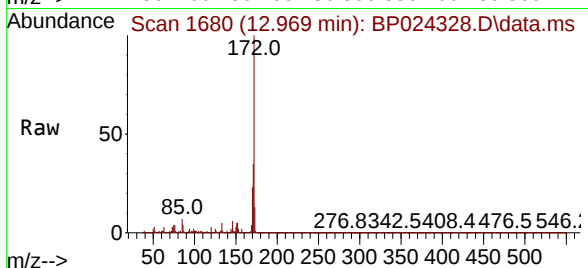




#45  
2-Fluorobiphenyl  
Concen: 59.720 ng  
RT: 12.969 min Scan# 1  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

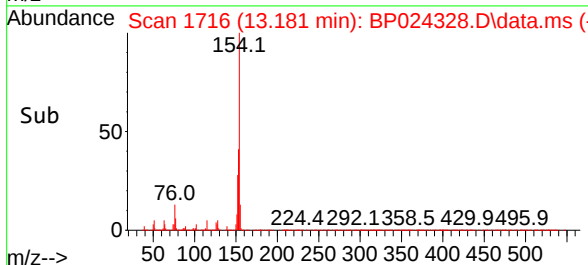
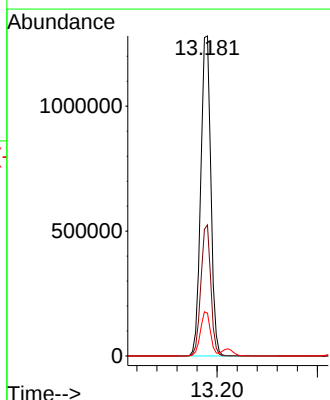
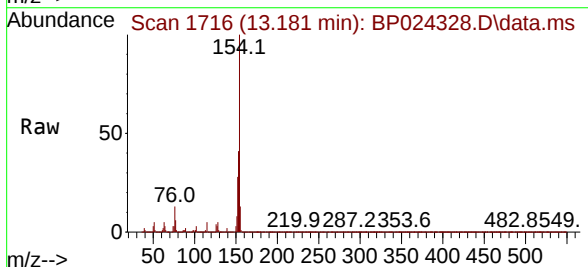
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

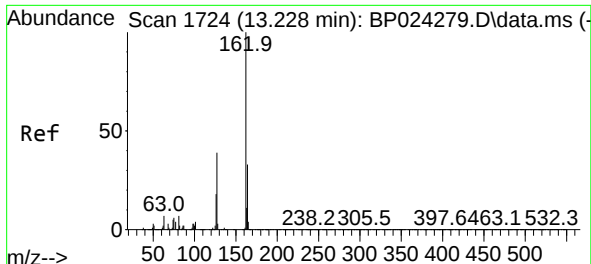
Tgt Ion:172 Resp: 2194883  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.2 42.2  
170 23.3 18.6 27.8



#46  
1,1'-Biphenyl  
Concen: 43.289 ng  
RT: 13.181 min Scan# 1716  
Delta R.T. -0.018 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:154 Resp: 1790601  
Ion Ratio Lower Upper  
154 100  
153 41.0 20.3 60.3  
76 13.4 0.0 33.5

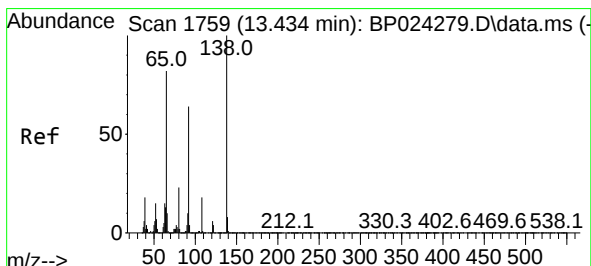
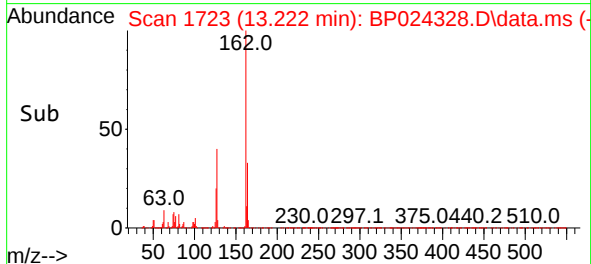
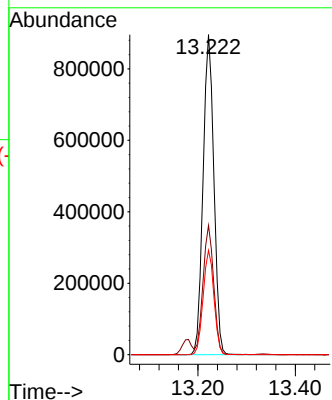
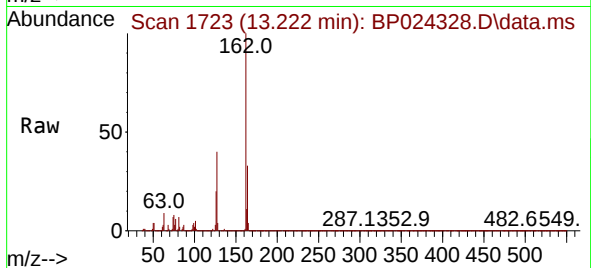




#47  
2-Chloronaphthalene  
Concen: 44.764 ng  
RT: 13.222 min Scan# 1724  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

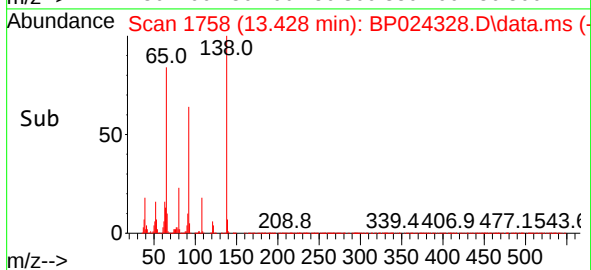
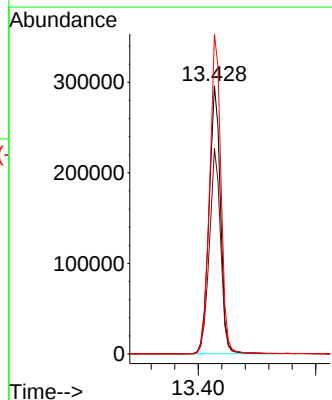
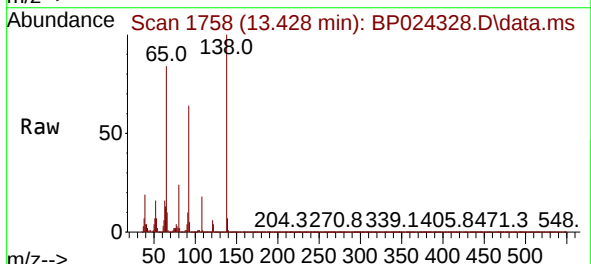
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

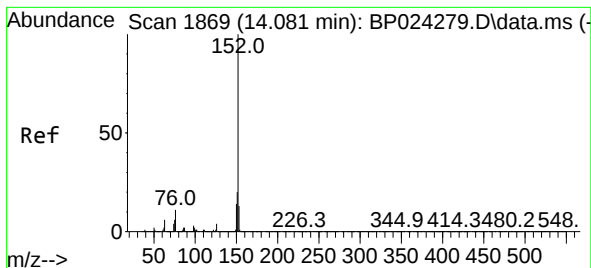
Tgt Ion:162 Resp: 1383857  
Ion Ratio Lower Upper  
162 100  
127 40.4 31.9 47.9  
164 32.6 26.2 39.4



#48  
2-Nitroaniline  
Concen: 46.311 ng  
RT: 13.428 min Scan# 1758  
Delta R.T. -0.018 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion: 65 Resp: 401592  
Ion Ratio Lower Upper  
65 100  
92 76.7 62.3 93.5  
138 119.3 97.2 145.8





#49

Acenaphthylene

Concen: 46.498 ng

RT: 14.075 min Scan# 1868

Delta R.T. -0.012 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

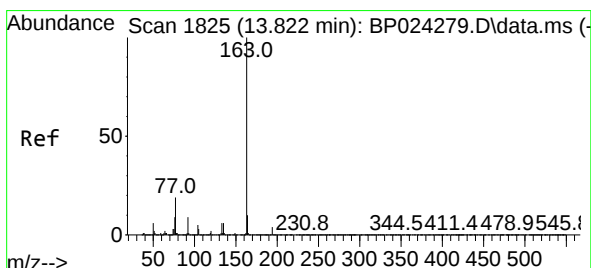
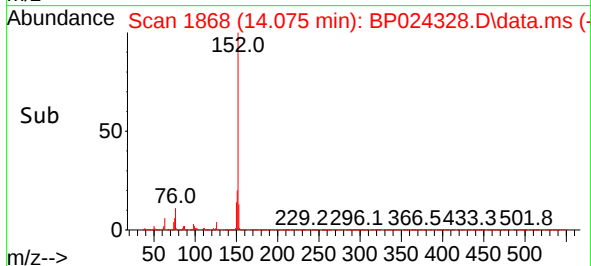
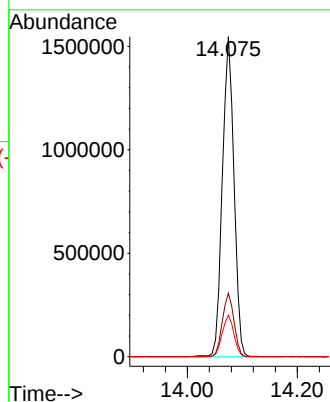
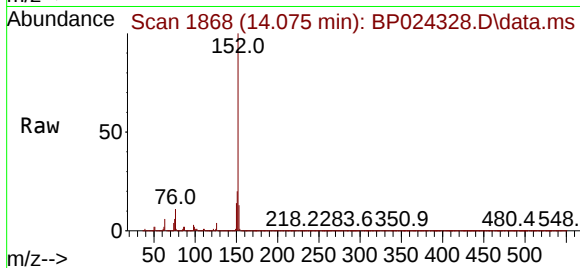
Tgt Ion:152 Resp: 2263156

Ion Ratio Lower Upper

152 100

151 19.8 15.9 23.9

153 13.0 10.6 15.8



#50

Dimethylphthalate

Concen: 41.287 ng

RT: 13.810 min Scan# 1823

Delta R.T. -0.024 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

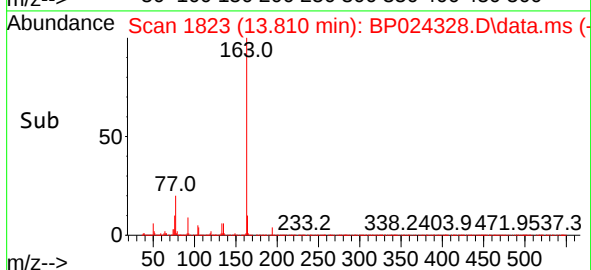
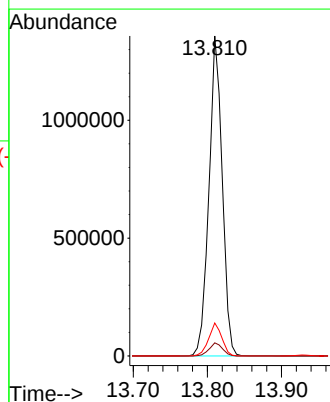
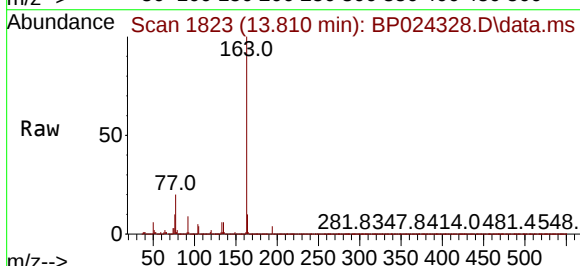
Tgt Ion:163 Resp: 1689579

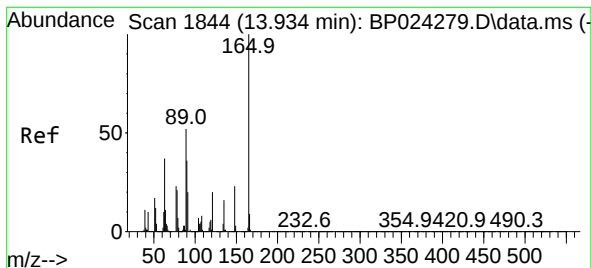
Ion Ratio Lower Upper

163 100

194 4.1 3.5 5.3

164 10.3 8.0 12.0

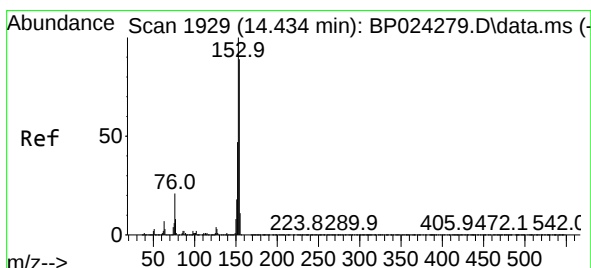
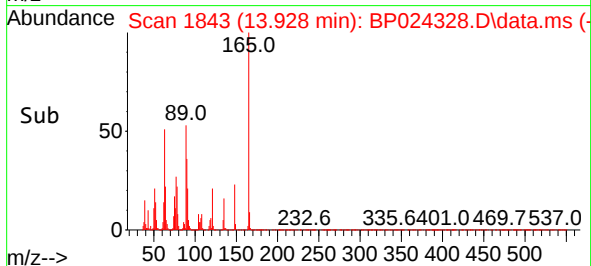
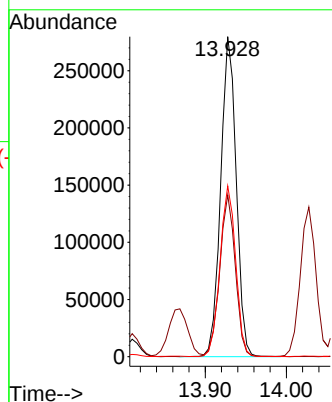
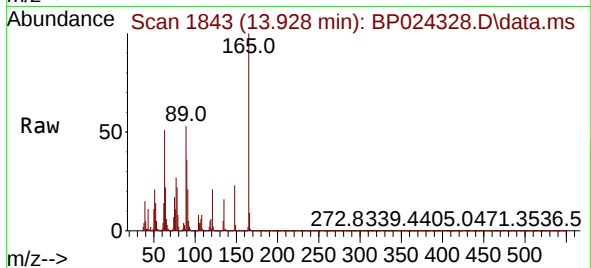




#51  
2,6-Dinitrotoluene  
Concen: 42.867 ng  
RT: 13.928 min Scan# 1844  
Delta R.T. -0.018 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

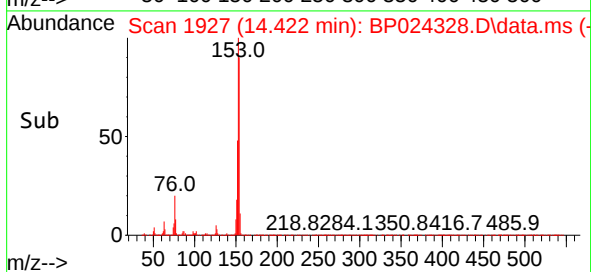
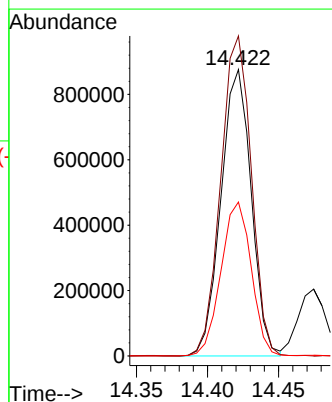
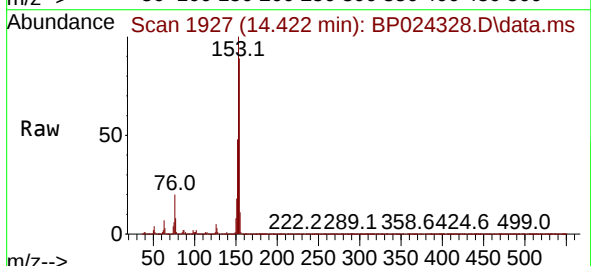
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

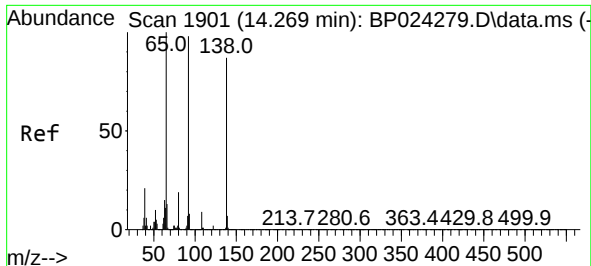
Tgt Ion:165 Resp: 372504  
Ion Ratio Lower Upper  
165 100  
63 50.6 38.0 57.0  
89 53.4 41.7 62.5



#52  
Acenaphthene  
Concen: 42.144 ng  
RT: 14.422 min Scan# 1927  
Delta R.T. -0.018 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:154 Resp: 1300427  
Ion Ratio Lower Upper  
154 100  
153 111.7 89.8 134.6  
152 53.8 42.6 63.8

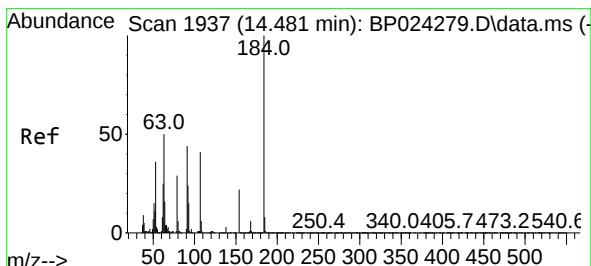
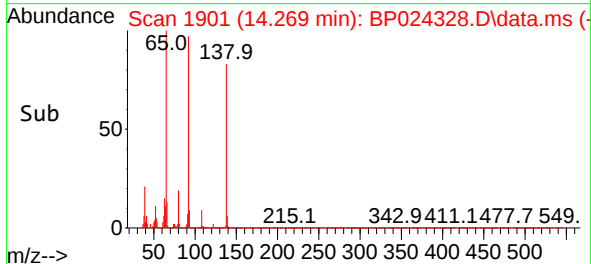
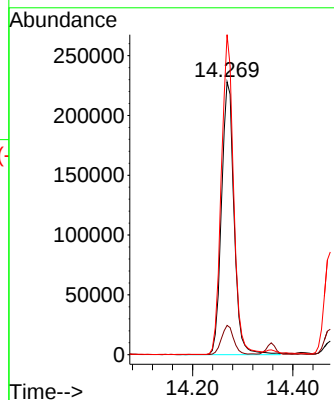
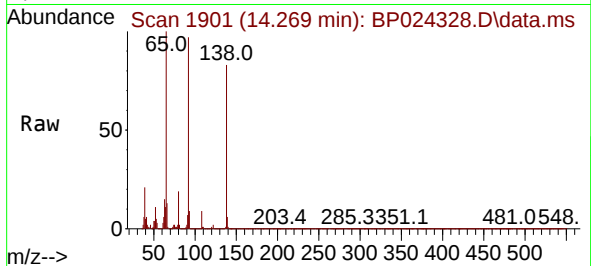




#53  
3-Nitroaniline  
Concen: 43.222 ng  
RT: 14.269 min Scan# 1901  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

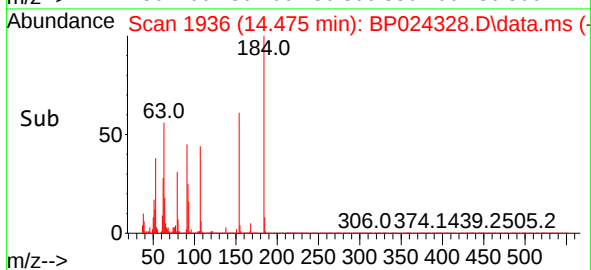
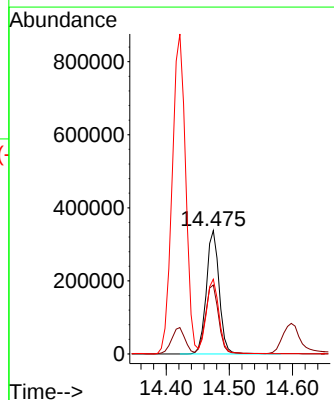
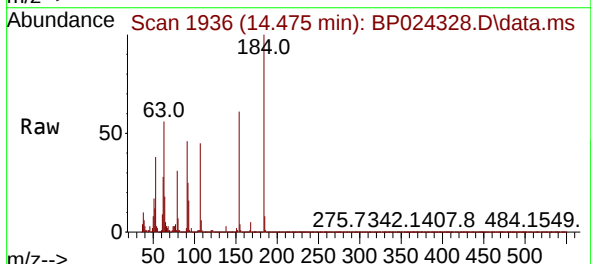
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

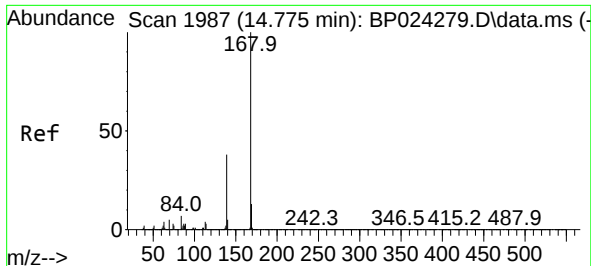
Tgt Ion:138 Resp: 394749  
Ion Ratio Lower Upper  
138 100  
108 10.8 8.3 12.5  
92 117.3 89.8 134.8



#54  
2,4-Dinitrophenol  
Concen: 93.218 ng  
RT: 14.475 min Scan# 1936  
Delta R.T. -0.017 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:184 Resp: 477156  
Ion Ratio Lower Upper  
184 100  
63 55.8 42.6 64.0  
154 60.6 47.2 70.8

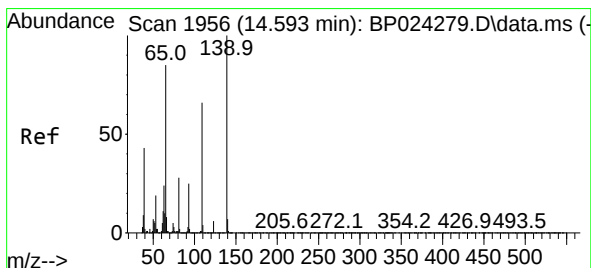
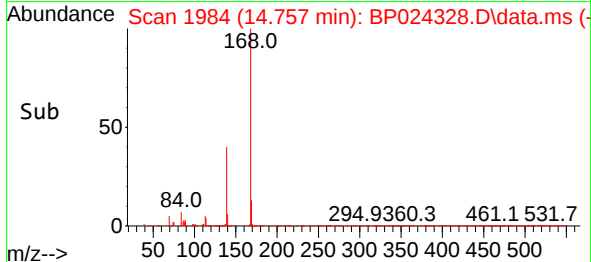
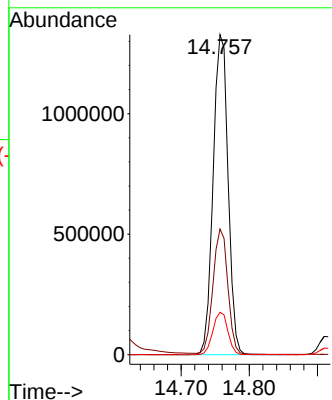
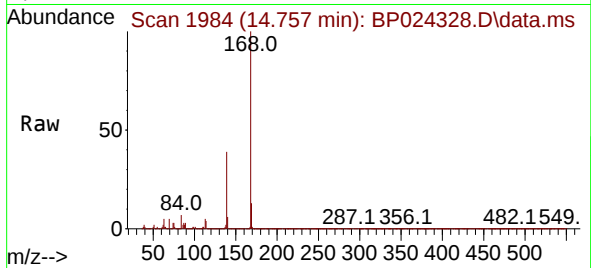




#55  
Dibenzenofuran  
Concen: 40.077 ng  
RT: 14.757 min Scan# 1984  
Delta R.T. -0.024 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

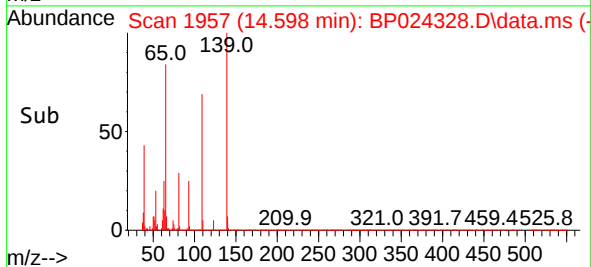
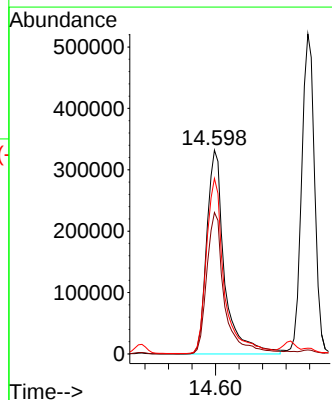
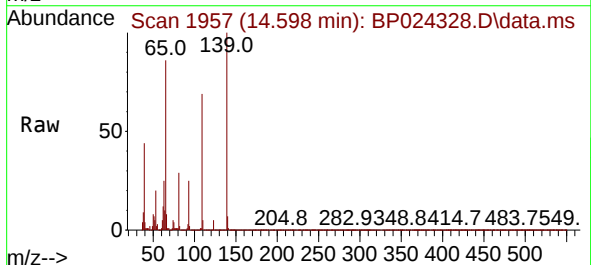
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

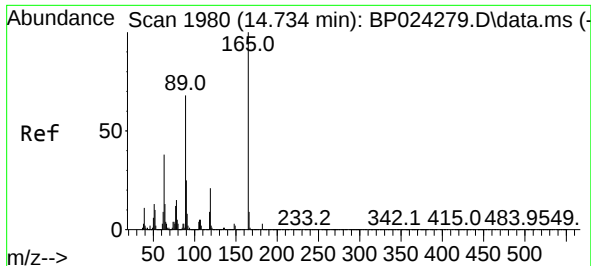
Tgt Ion:168 Resp: 2021384  
Ion Ratio Lower Upper  
168 100  
139 39.3 30.3 45.5  
169 13.3 10.6 16.0



#56  
4-Nitrophenol  
Concen: 88.655 ng  
RT: 14.598 min Scan# 1957  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:139 Resp: 699297  
Ion Ratio Lower Upper  
139 100  
109 69.3 46.1 86.1  
65 86.1 65.0 105.0

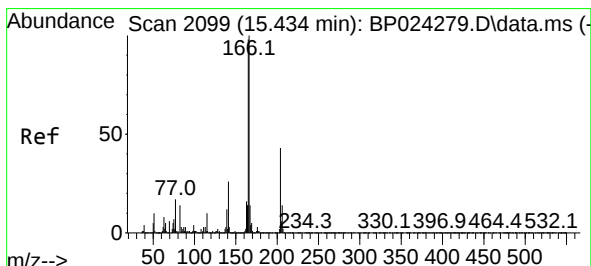
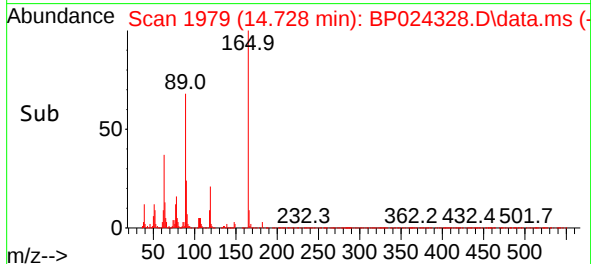
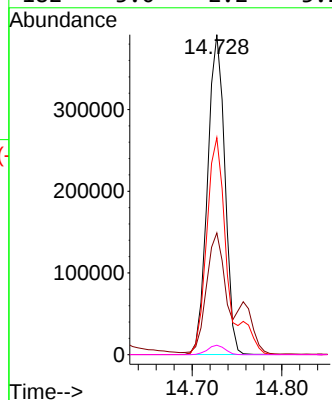
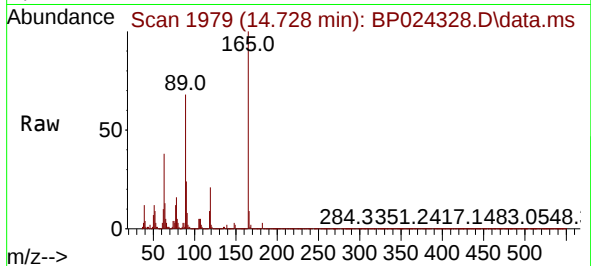




#57  
2,4-Dinitrotoluene  
Concen: 44.234 ng  
RT: 14.728 min Scan# 1980  
Delta R.T. -0.018 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

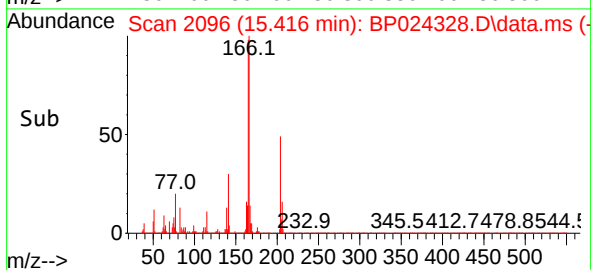
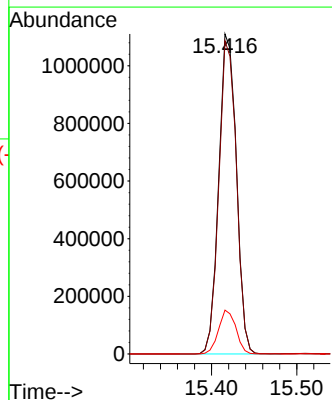
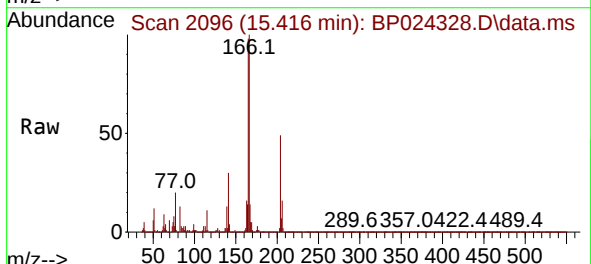
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

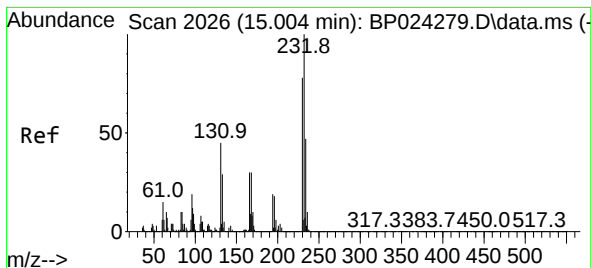
Tgt Ion:165 Resp: 524351  
Ion Ratio Lower Upper  
165 100  
63 38.0 30.4 45.6  
89 67.8 54.6 82.0  
182 3.0 2.2 3.2



#58  
Fluorene  
Concen: 40.949 ng  
RT: 15.416 min Scan# 2096  
Delta R.T. -0.024 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:166 Resp: 1598862  
Ion Ratio Lower Upper  
166 100  
165 97.8 78.1 117.1  
167 13.7 10.9 16.3

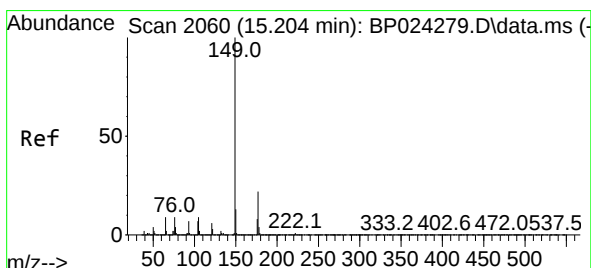
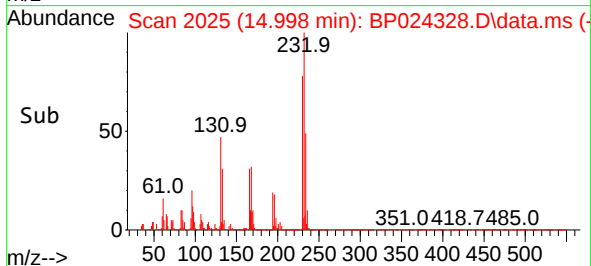
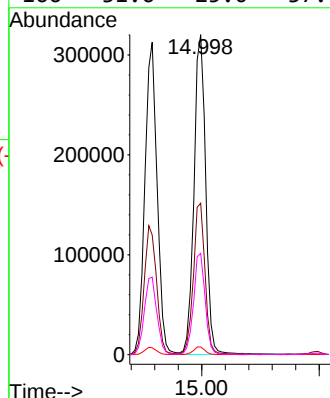
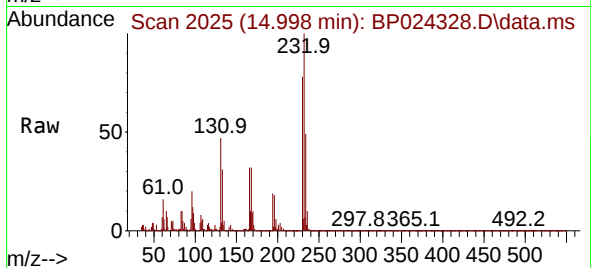




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 41.911 ng  
RT: 14.998 min Scan# 2058  
Delta R.T. -0.006 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

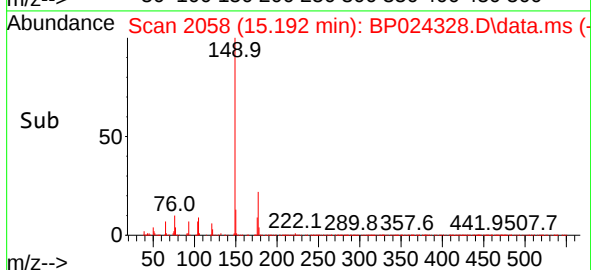
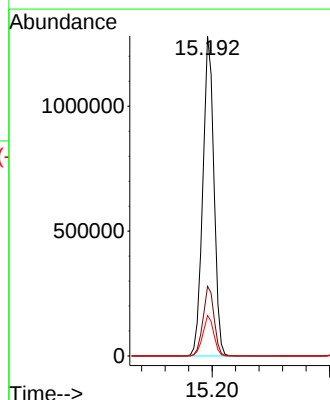
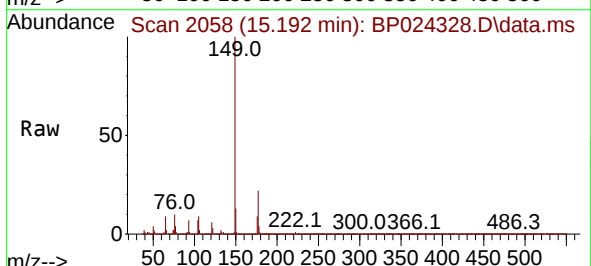
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

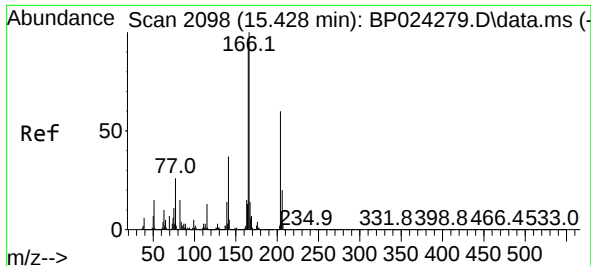
Tgt Ion:232 Resp: 440404  
Ion Ratio Lower Upper  
232 100  
131 47.0 36.8 55.2  
130 2.4 1.9 2.9  
166 31.6 25.0 37.6



#60  
Diethylphthalate  
Concen: 39.861 ng  
RT: 15.192 min Scan# 2058  
Delta R.T. -0.030 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:149 Resp: 1681000  
Ion Ratio Lower Upper  
149 100  
177 21.8 17.4 26.2  
150 12.7 10.1 15.1

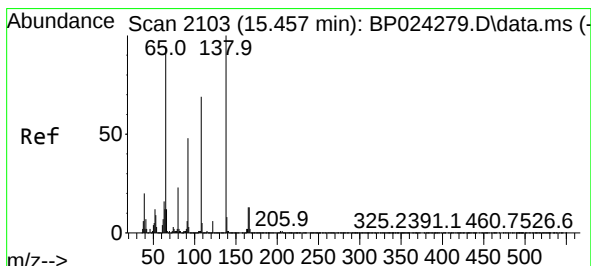
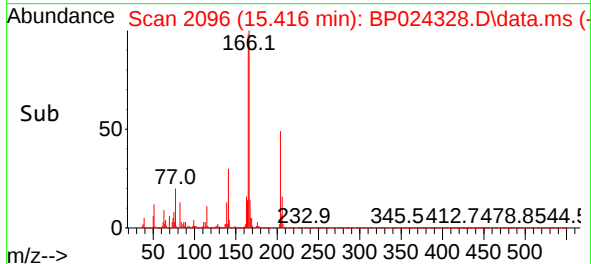
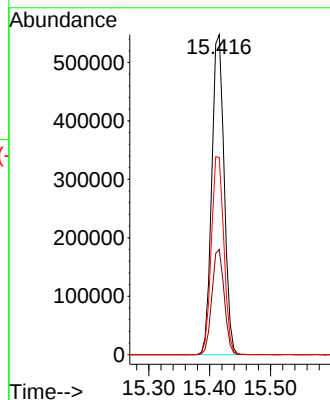
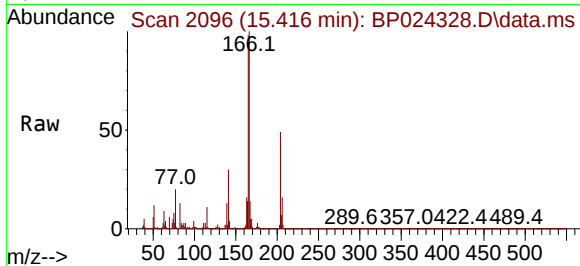




#61  
4-Chlorophenyl-phenylether  
Concen: 40.701 ng  
RT: 15.416 min Scan# 2098  
Delta R.T. -0.024 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

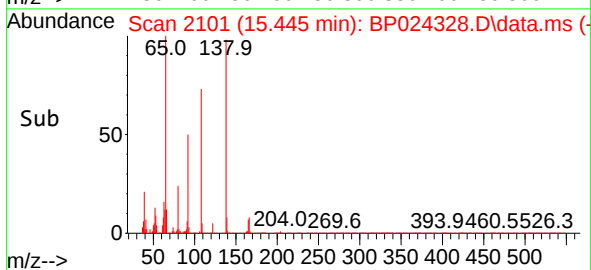
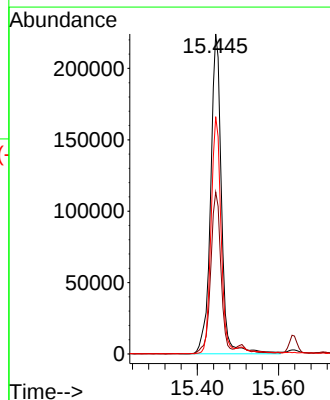
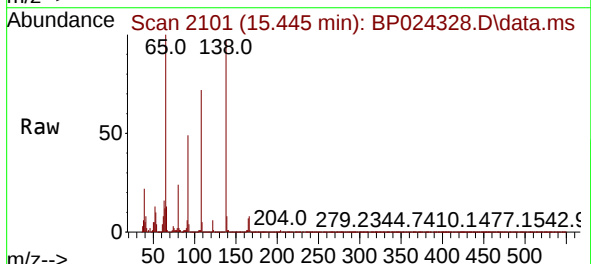
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

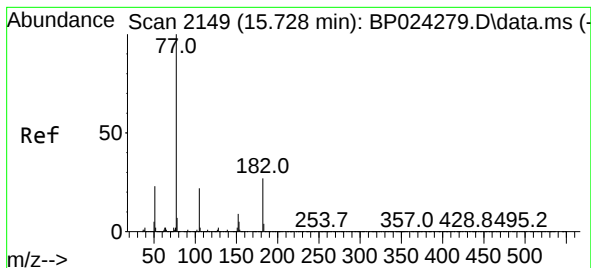
Tgt Ion:204 Resp: 771713  
Ion Ratio Lower Upper  
204 100  
206 32.9 26.5 39.7  
141 61.7 49.4 74.0



#62  
4-Nitroaniline  
Concen: 42.971 ng  
RT: 15.445 min Scan# 2101  
Delta R.T. -0.024 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:138 Resp: 415467  
Ion Ratio Lower Upper  
138 100  
92 50.6 27.8 67.8  
108 74.2 48.9 88.9



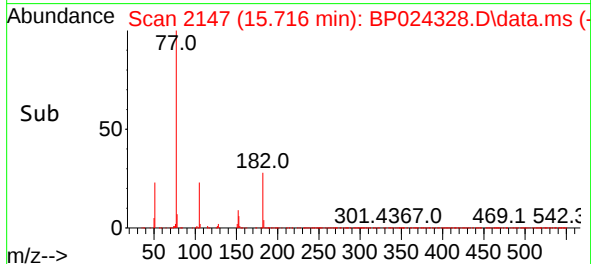
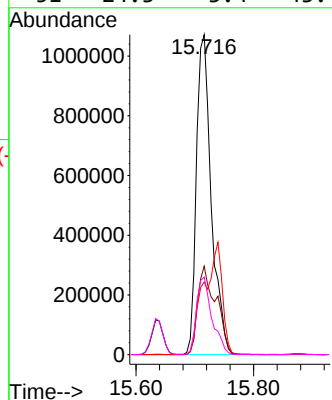
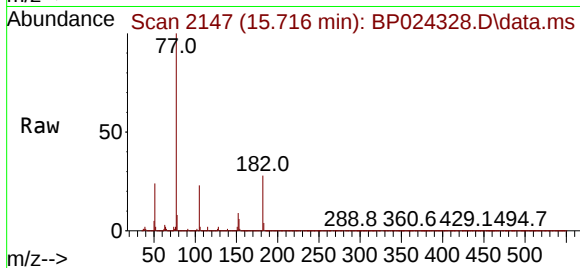


#63  
Azobenzene  
Concen: 48.531 ng  
RT: 15.716 min Scan# 2147  
Delta R.T. -0.024 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

Tgt Ion: 77 Resp: 1881103

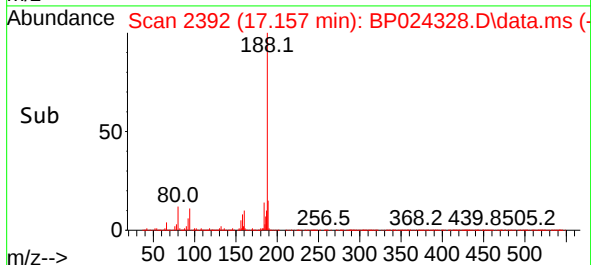
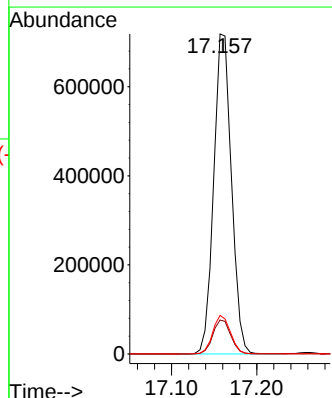
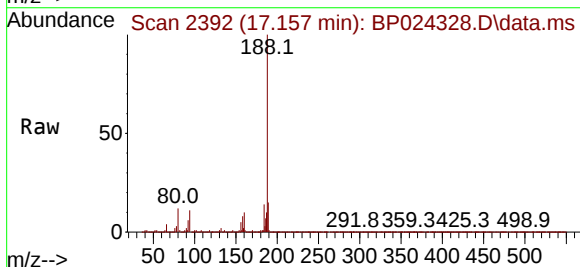
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 182 | 27.6  | 7.3   | 47.3  |
| 105 | 22.7  | 2.3   | 42.3  |
| 51  | 24.3  | 3.4   | 43.4  |

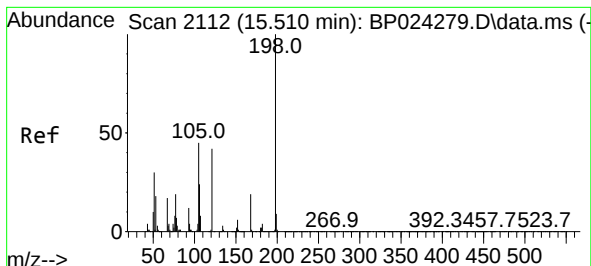


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.157 min Scan# 2392  
Delta R.T. -0.024 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion: 188 Resp: 1041169

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 10.6  | 8.6   | 13.0  |
| 80  | 12.1  | 9.8   | 14.6  |

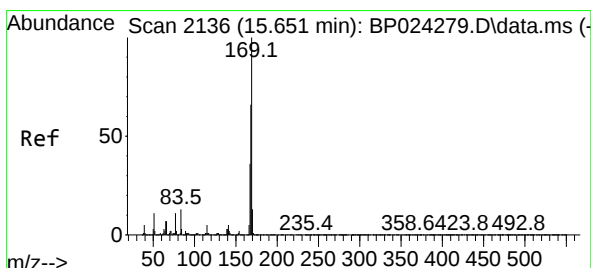
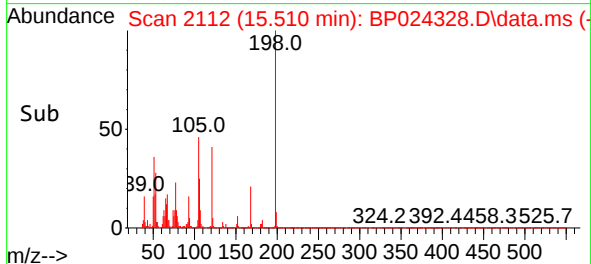
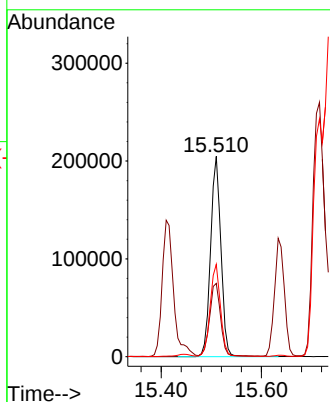
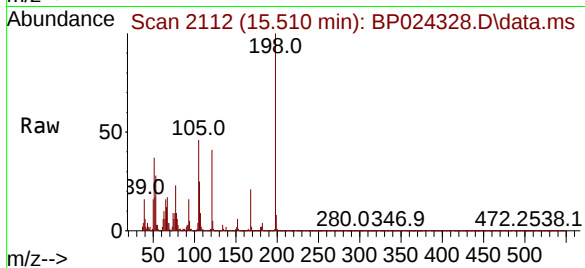




#65  
4,6-Dinitro-2-methylphenol  
Concen: 44.655 ng  
RT: 15.510 min Scan# 2112  
Delta R.T. -0.018 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

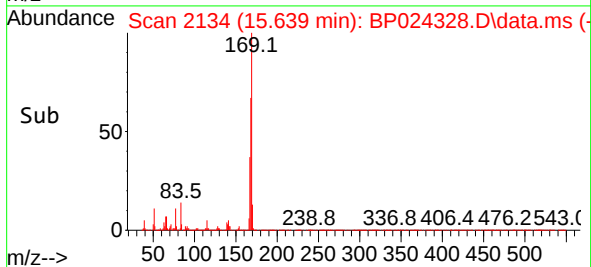
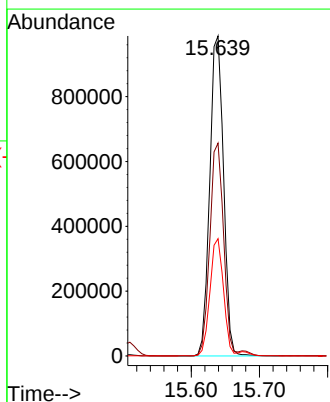
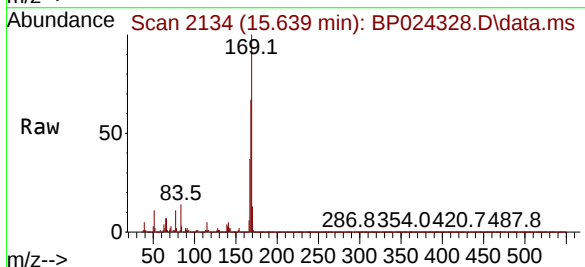
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

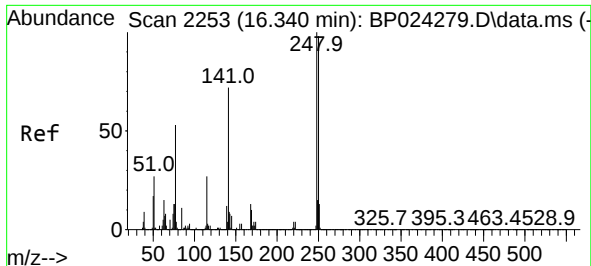
Tgt Ion:198 Resp: 293124  
Ion Ratio Lower Upper  
198 100  
51 36.6 18.4 58.4  
105 46.1 26.5 66.5



#66  
n-Nitrosodiphenylamine  
Concen: 44.730 ng  
RT: 15.639 min Scan# 2134  
Delta R.T. -0.018 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:169 Resp: 1390061  
Ion Ratio Lower Upper  
169 100  
168 66.5 53.0 79.4  
167 36.6 28.9 43.3

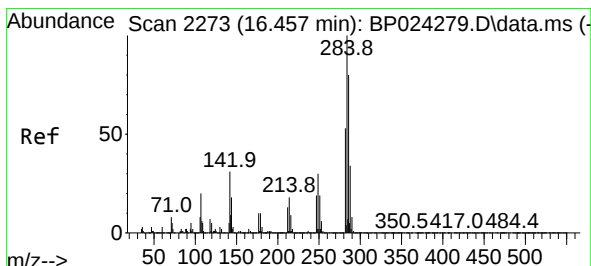
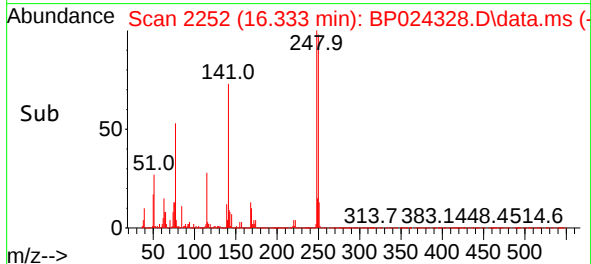
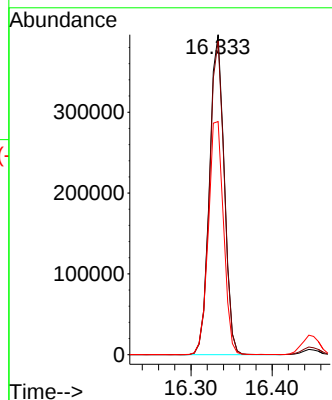
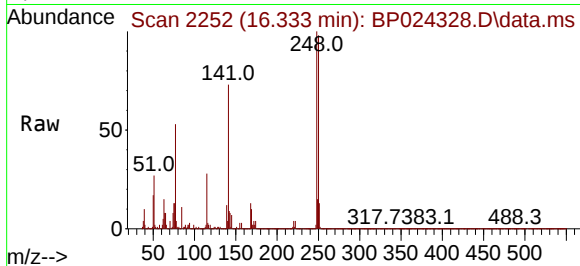




#67  
4-Bromophenyl-phenylether  
Concen: 43.721 ng  
RT: 16.333 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

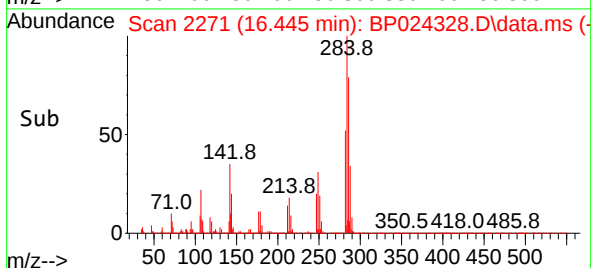
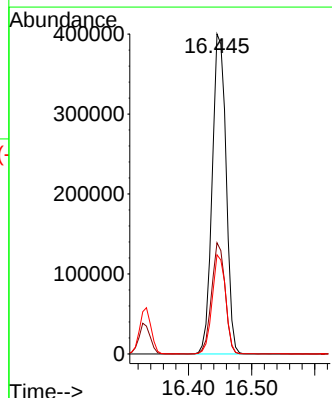
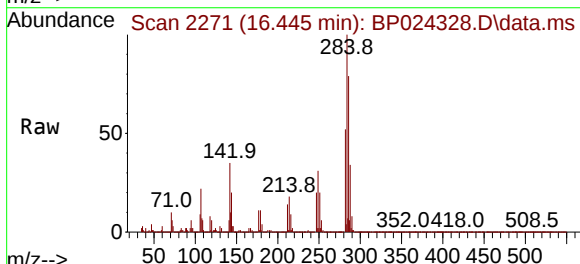
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

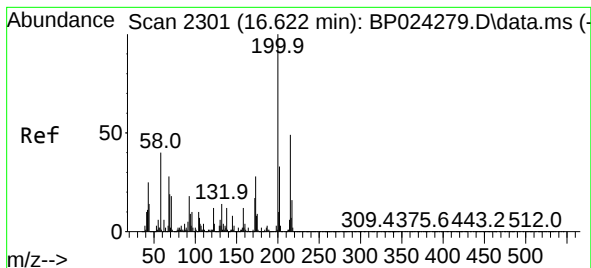
Tgt Ion:248 Resp: 497858  
Ion Ratio Lower Upper  
248 100  
250 98.0 78.2 117.4  
141 72.9 57.7 86.5



#68  
Hexachlorobenzene  
Concen: 44.990 ng  
RT: 16.445 min Scan# 2271  
Delta R.T. -0.024 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:284 Resp: 608763  
Ion Ratio Lower Upper  
284 100  
142 34.7 24.6 37.0  
249 31.0 23.8 35.6





#69

Atrazine

Concen: 55.985 ng

RT: 16.627 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

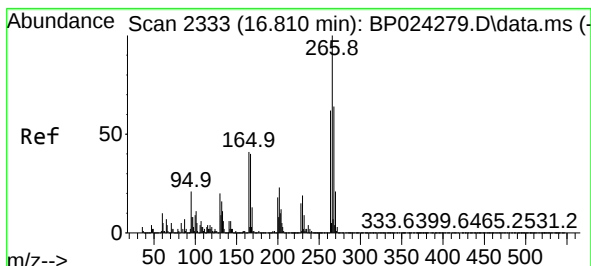
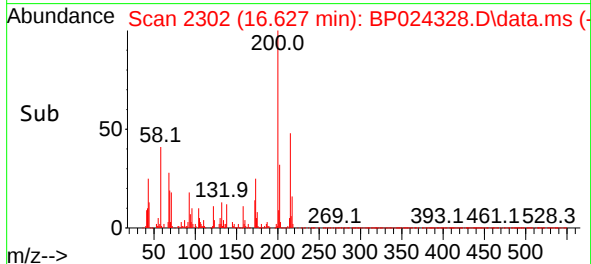
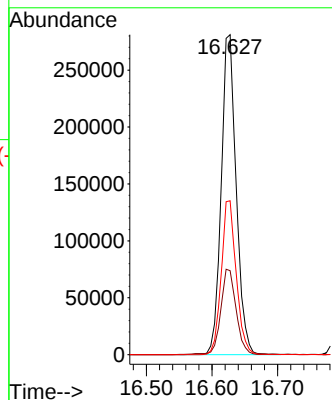
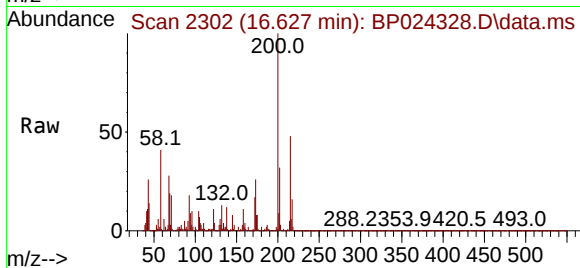
Tgt Ion:200 Resp: 443115

Ion Ratio Lower Upper

200 100

173 26.2 7.5 47.5

215 48.1 28.8 68.8



#70

Pentachlorophenol

Concen: 88.816 ng

RT: 16.804 min Scan# 2332

Delta R.T. -0.024 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

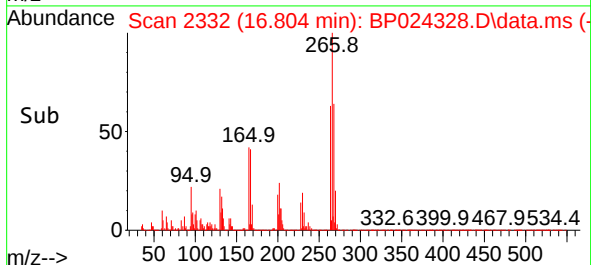
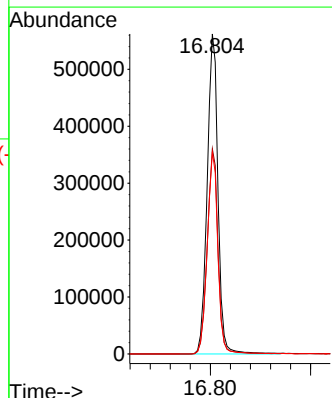
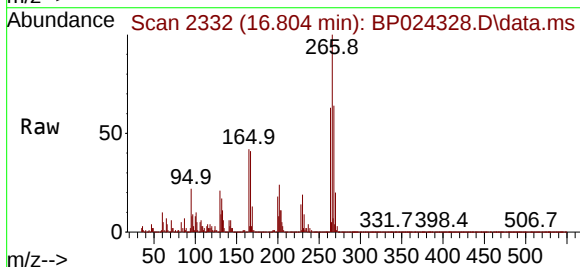
Tgt Ion:266 Resp: 838382

Ion Ratio Lower Upper

266 100

268 64.1 51.0 76.6

264 63.1 49.8 74.6





#71

Phenanthrene

Concen: 43.539 ng

RT: 17.204 min Scan# 2400

Delta R.T. -0.024 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

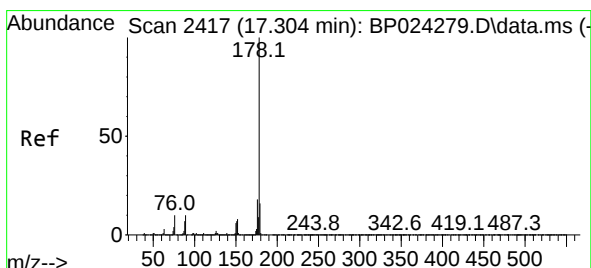
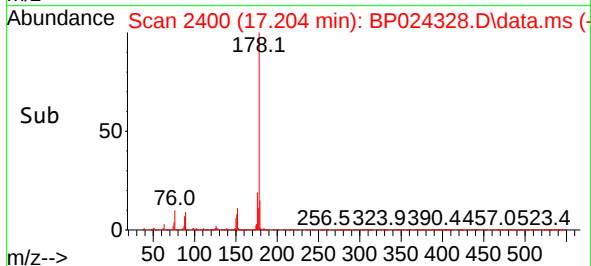
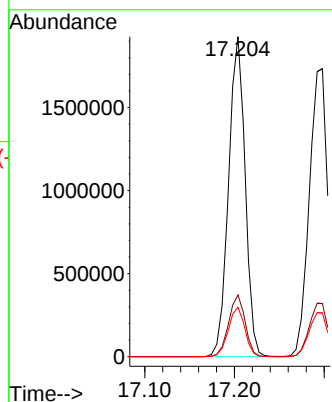
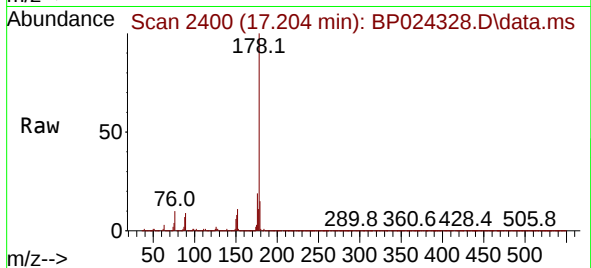
Tgt Ion:178 Resp: 2472978

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.0

179 15.5 12.5 18.7



#72

Anthracene

Concen: 45.718 ng

RT: 17.298 min Scan# 2416

Delta R.T. -0.018 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

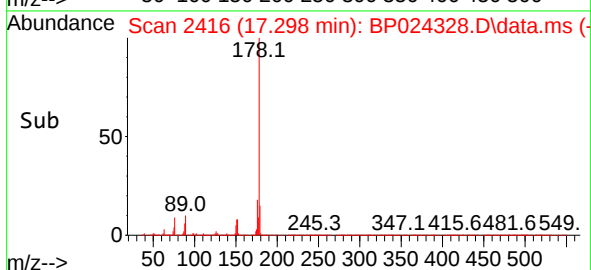
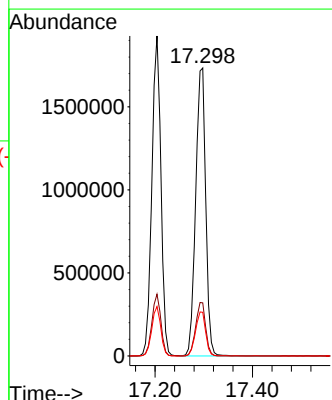
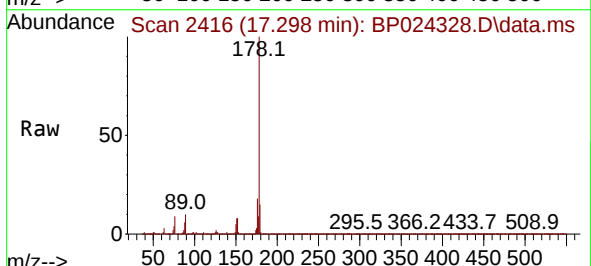
Tgt Ion:178 Resp: 2502684

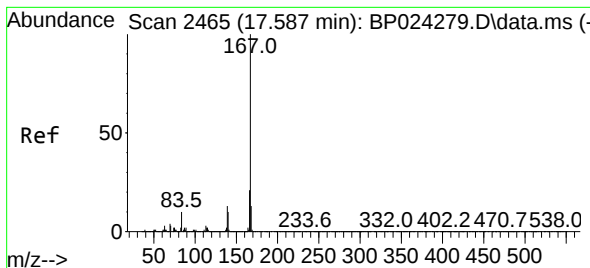
Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 15.2 12.4 18.6





#73

Carbazole

Concen: 44.460 ng

RT: 17.580 min Scan# 2465

Delta R.T. -0.024 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

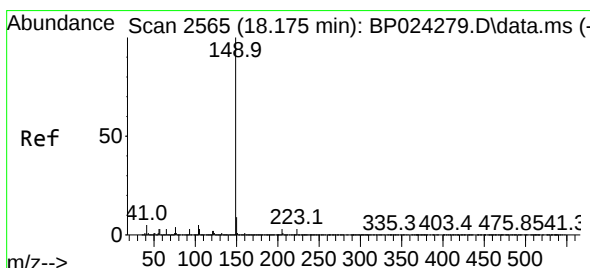
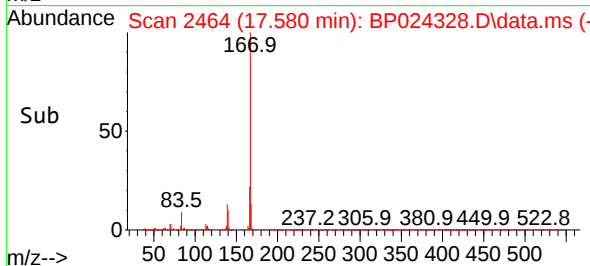
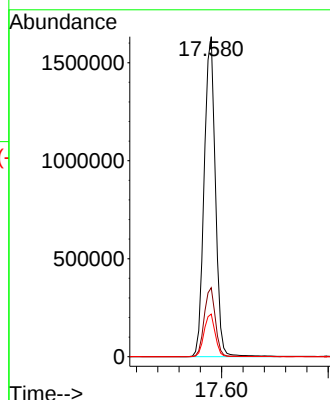
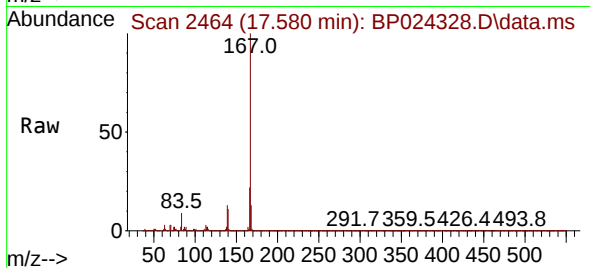
Tgt Ion:167 Resp: 2378089

Ion Ratio Lower Upper

167 100

166 21.5 17.1 25.7

139 13.3 10.6 16.0



#74

Di-n-butylphthalate

Concen: 44.535 ng

RT: 18.169 min Scan# 2564

Delta R.T. -0.024 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

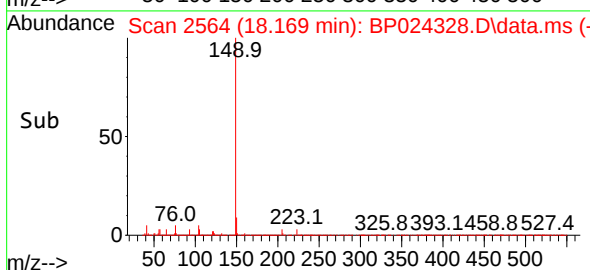
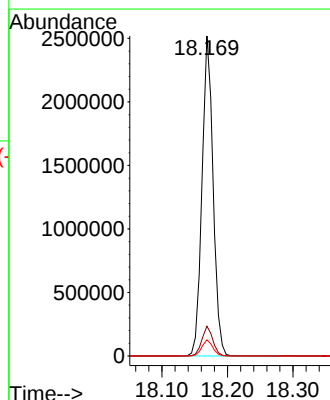
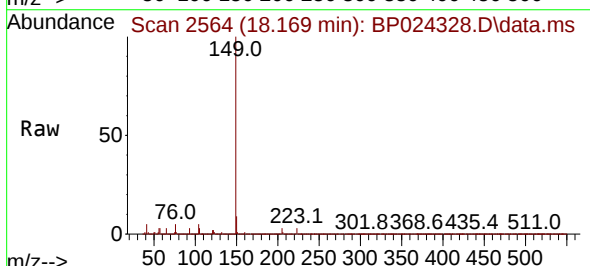
Tgt Ion:149 Resp: 2967744

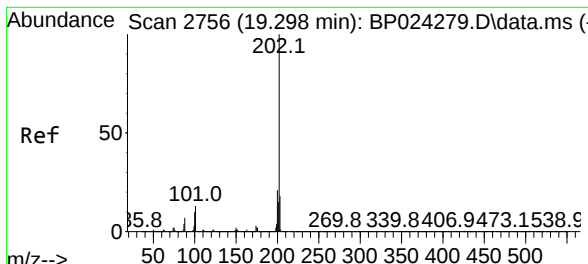
Ion Ratio Lower Upper

149 100

150 9.3 7.4 11.2

104 5.1 3.9 5.9



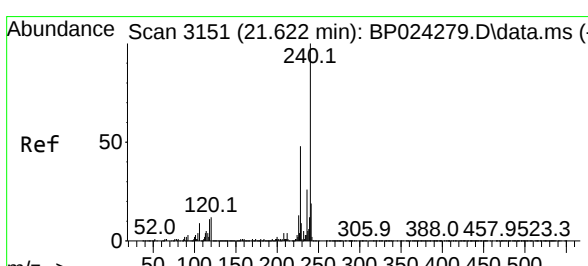
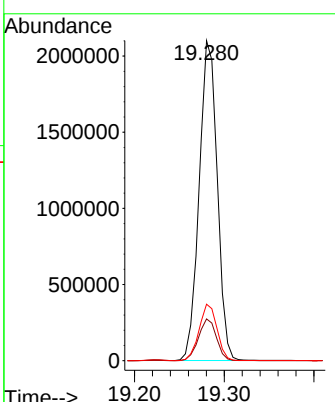
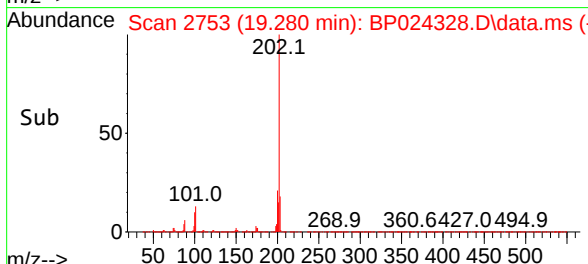
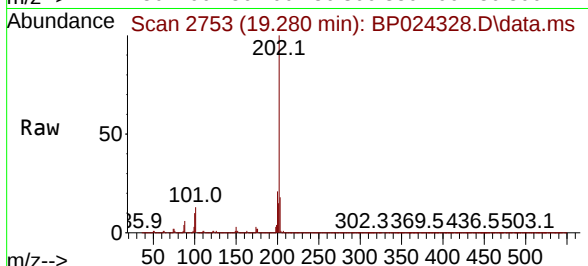


#75  
 Fluoranthene  
 Concen: 43.526 ng  
 RT: 19.280 min Scan# 21  
 Delta R.T. -0.035 min  
 Lab File: BP024328.D  
 Acq: 17 Apr 2025 16:01

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SOIL-CUTTINGMSD

Tgt Ion: 202 Resp: 2940292

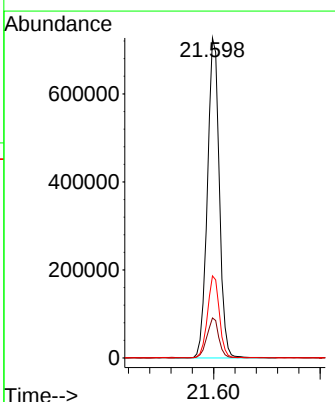
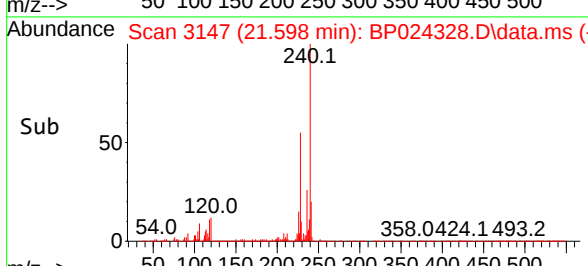
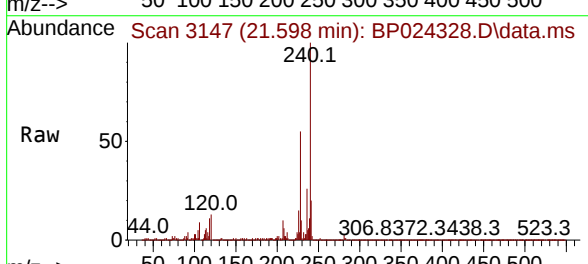
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 13.1  | 0.0   | 33.2  |
| 203 | 17.6  | 0.0   | 37.7  |

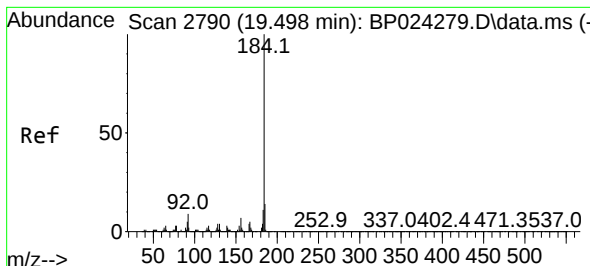


#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.598 min Scan# 3147  
 Delta R.T. -0.024 min  
 Lab File: BP024328.D  
 Acq: 17 Apr 2025 16:01

Tgt Ion: 240 Resp: 1124343

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 12.5  | 9.8   | 14.8  |
| 236 | 25.7  | 20.9  | 31.3  |





#77

Benzidine

Concen: 116.070 ng

RT: 19.486 min Scan# 21

Delta R.T. -0.024 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

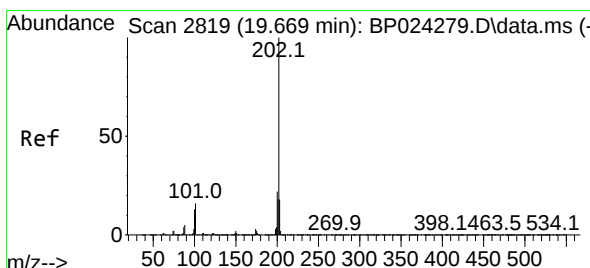
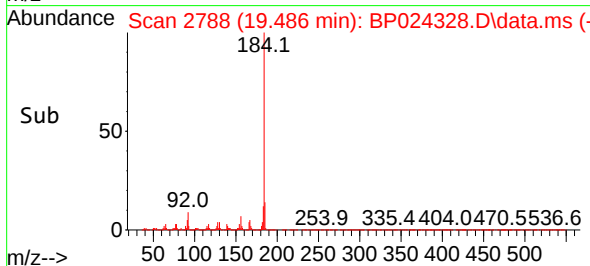
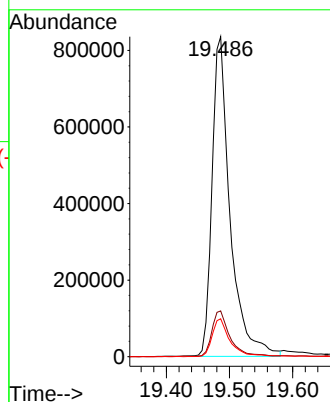
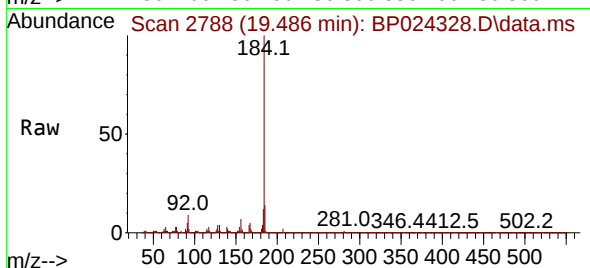
Tgt Ion:184 Resp: 1654230

Ion Ratio Lower Upper

184 100

185 14.3 11.6 17.4

183 11.8 9.2 13.8



#78

Pyrene

Concen: 42.415 ng

RT: 19.657 min Scan# 2817

Delta R.T. -0.030 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

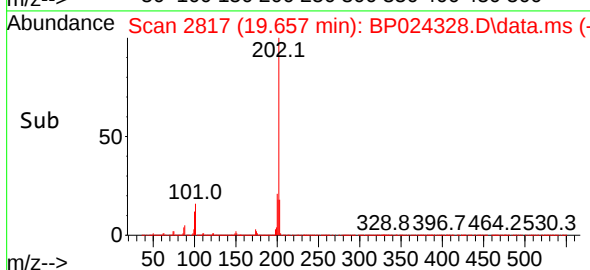
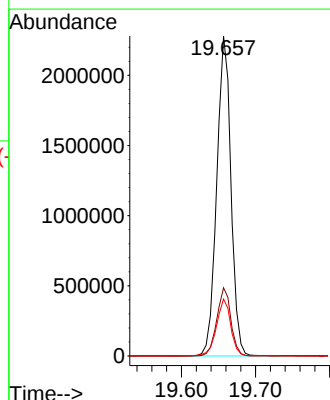
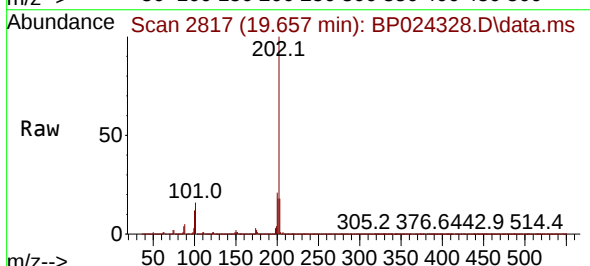
Tgt Ion:202 Resp: 3030680

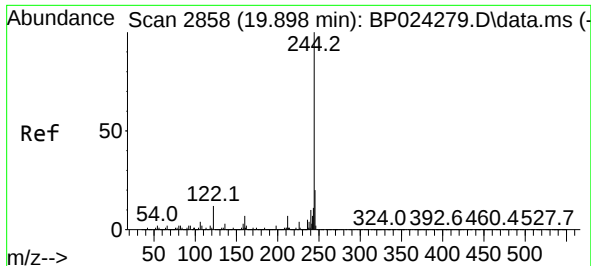
Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

203 17.8 14.4 21.6

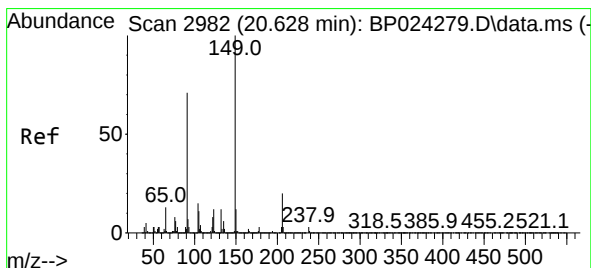
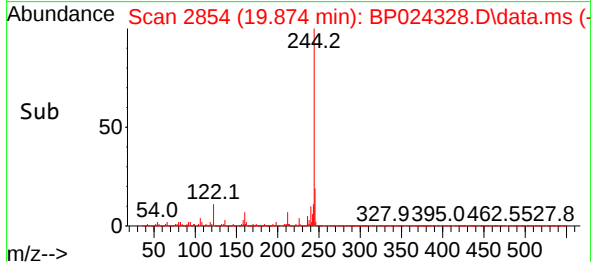
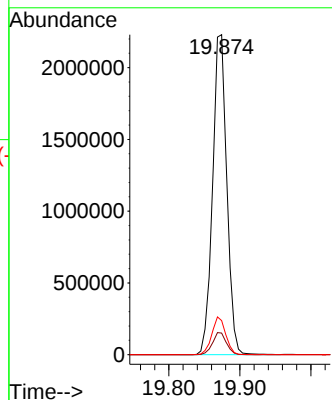
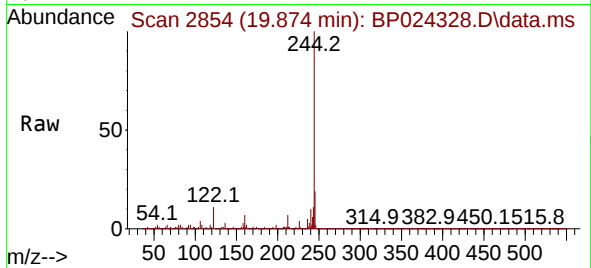




#79  
 Terphenyl-d14  
 Concen: 55.515 ng  
 RT: 19.874 min Scan# 21  
 Delta R.T. -0.047 min  
 Lab File: BP024328.D  
 Acq: 17 Apr 2025 16:01

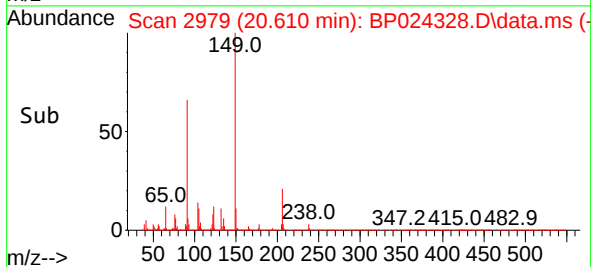
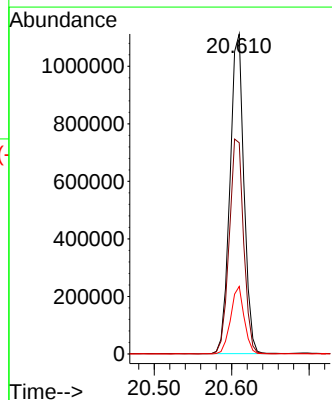
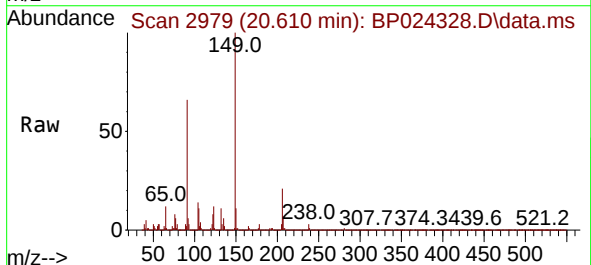
Instrument :  
 BNA\_P  
 ClientSampleId :  
 SOIL-CUTTINGMSD

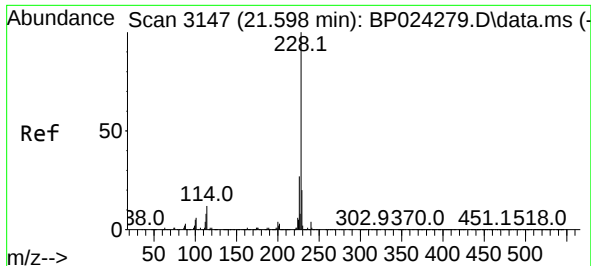
Tgt Ion:244 Resp: 3096675  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.6 8.4  
 122 10.7 9.4 14.0



#80  
 Butylbenzylphthalate  
 Concen: 45.567 ng  
 RT: 20.610 min Scan# 2979  
 Delta R.T. -0.035 min  
 Lab File: BP024328.D  
 Acq: 17 Apr 2025 16:01

Tgt Ion:149 Resp: 1394581  
 Ion Ratio Lower Upper  
 149 100  
 91 66.0 56.4 84.6  
 206 21.1 16.3 24.5

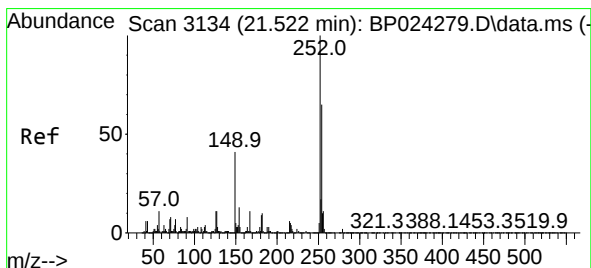
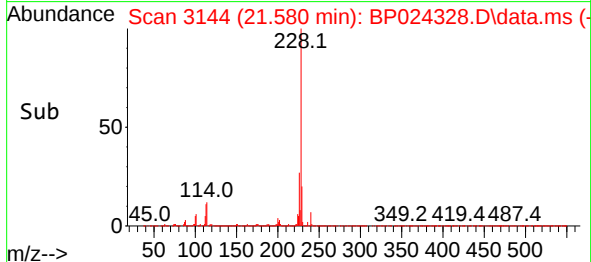
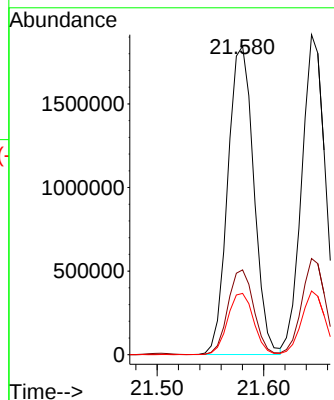
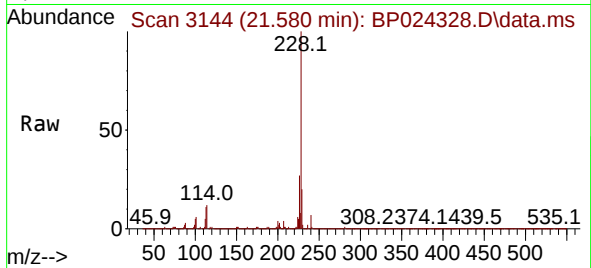




#81  
Benzo(a)anthracene  
Concen: 44.761 ng  
RT: 21.580 min Scan# 3147  
Delta R.T. -0.024 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

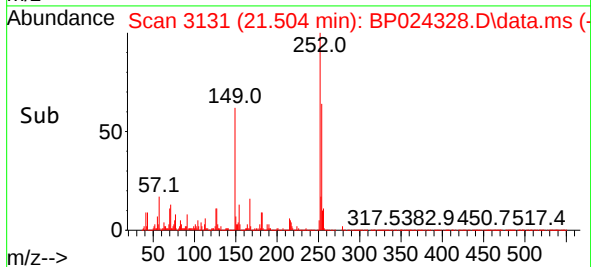
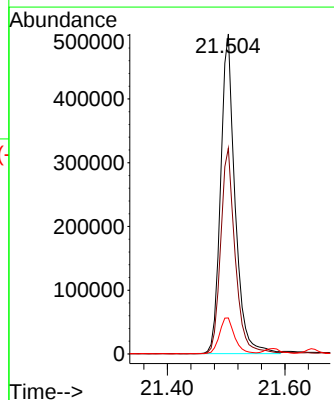
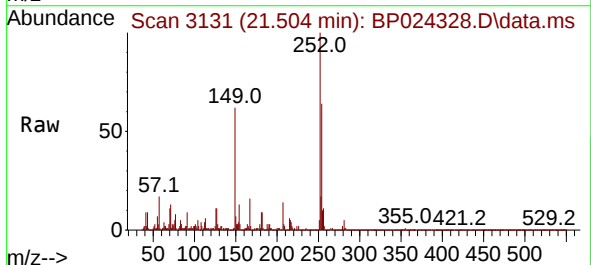
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

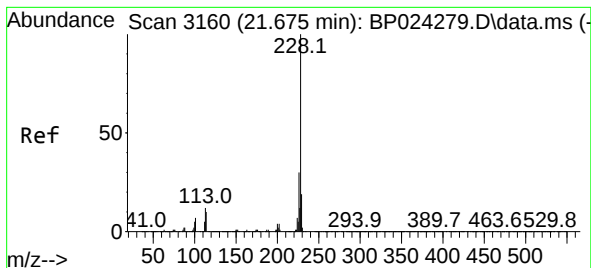
Tgt Ion:228 Resp: 3128087  
Ion Ratio Lower Upper  
228 100  
226 27.5 21.8 32.8  
229 19.9 15.9 23.9



#82  
3,3'-Dichlorobenzidine  
Concen: 34.891 ng  
RT: 21.504 min Scan# 3131  
Delta R.T. -0.035 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:252 Resp: 855827  
Ion Ratio Lower Upper  
252 100  
254 64.3 51.7 77.5  
126 11.2 8.8 13.2





#83

Chrysene

Concen: 43.957 ng

RT: 21.645 min Scan# 31

Delta R.T. -0.035 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

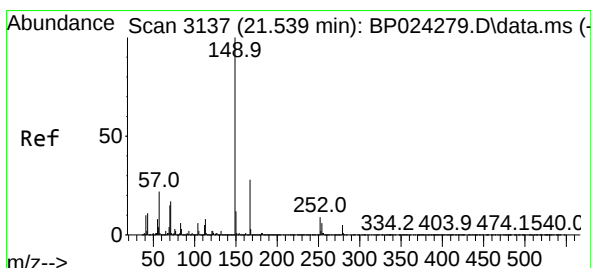
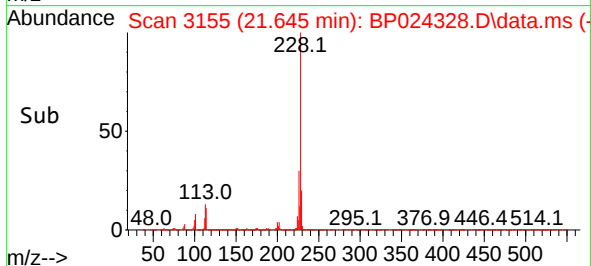
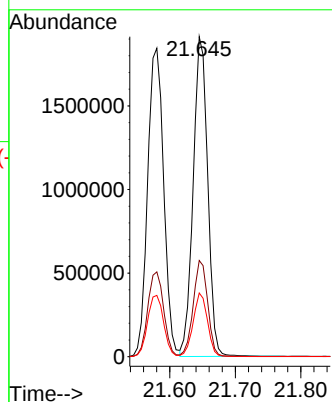
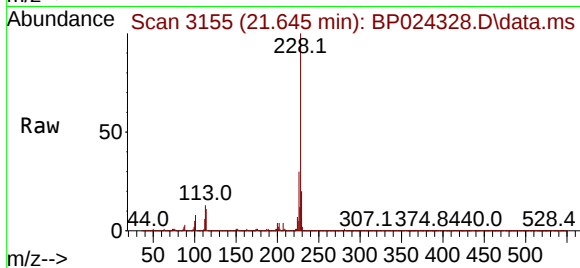
Tgt Ion:228 Resp: 2943042

Ion Ratio Lower Upper

228 100

226 30.0 24.2 36.2

229 19.9 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 45.735 ng

RT: 21.521 min Scan# 3134

Delta R.T. -0.024 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

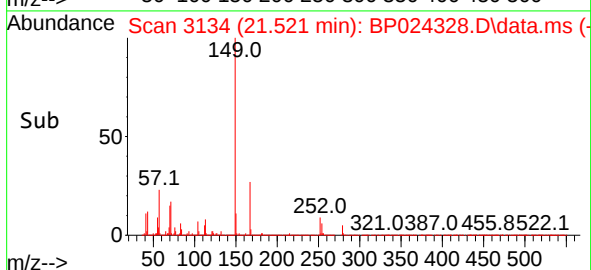
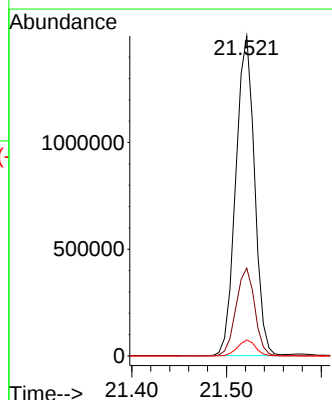
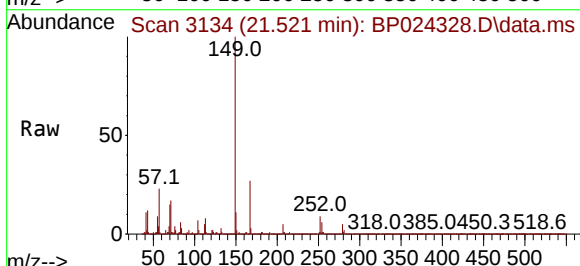
Tgt Ion:149 Resp: 2051948

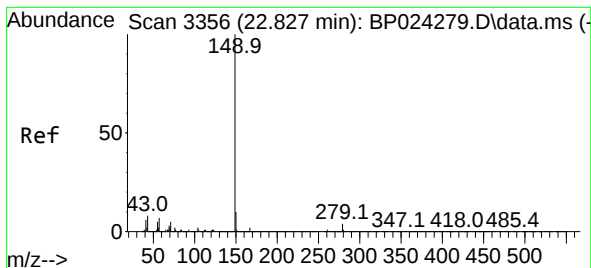
Ion Ratio Lower Upper

149 100

167 27.4 22.4 33.6

279 5.0 4.0 6.0

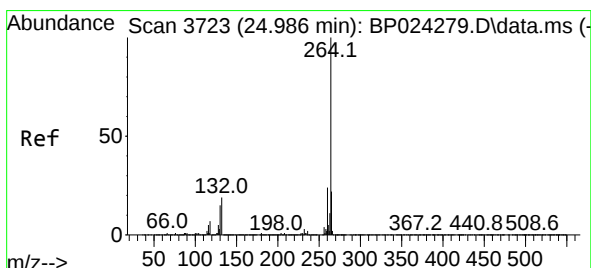
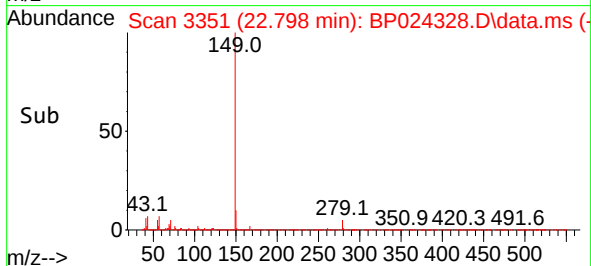
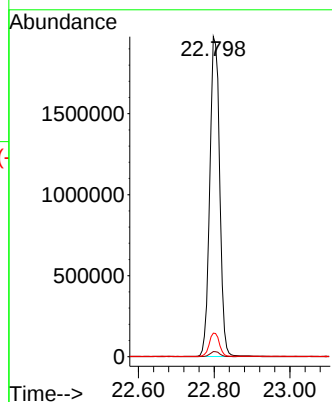
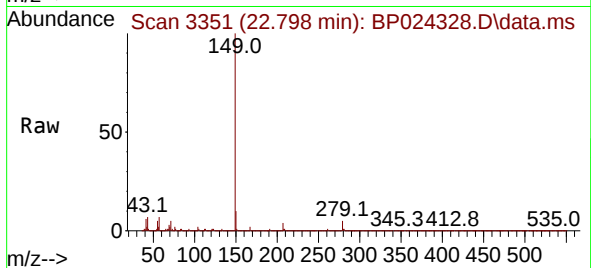




#85  
Di-n-octyl phthalate  
Concen: 48.887 ng  
RT: 22.798 min Scan# 31  
Delta R.T. -0.035 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

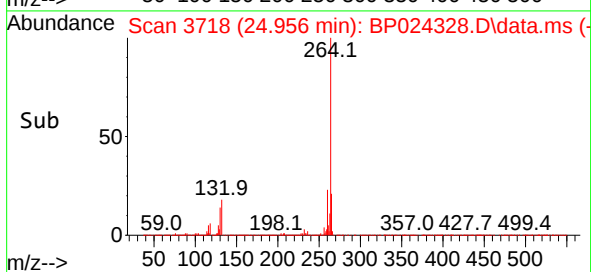
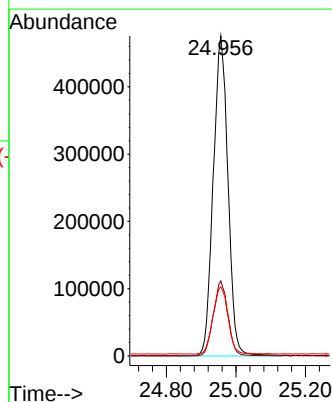
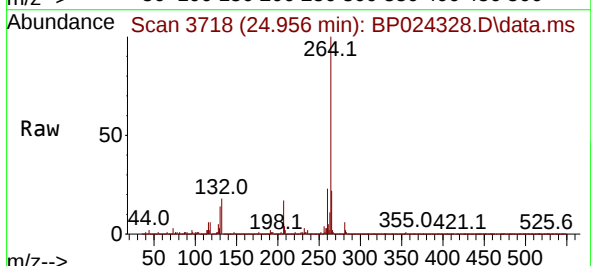
Instrument :  
BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

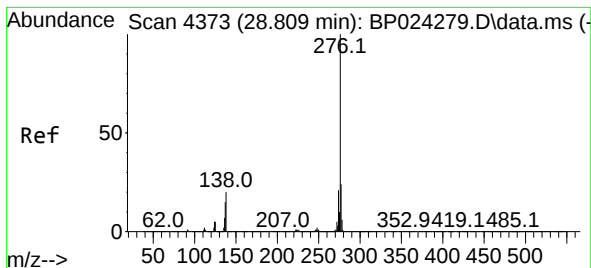
Tgt Ion:149 Resp: 3565788  
Ion Ratio Lower Upper  
149 100  
167 1.6 1.2 1.8  
43 7.4 6.0 9.0



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.956 min Scan# 3718  
Delta R.T. -0.030 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:264 Resp: 1396094  
Ion Ratio Lower Upper  
264 100  
260 23.4 18.9 28.3  
265 21.6 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 48.820 ng

RT: 28.756 min Scan# 41

Delta R.T. -0.059 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

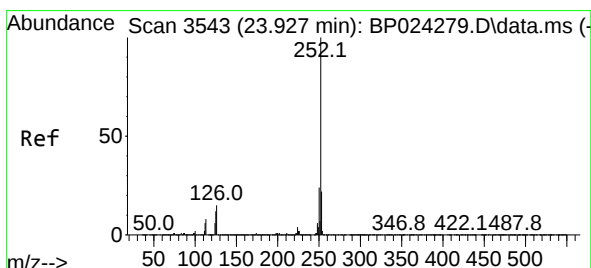
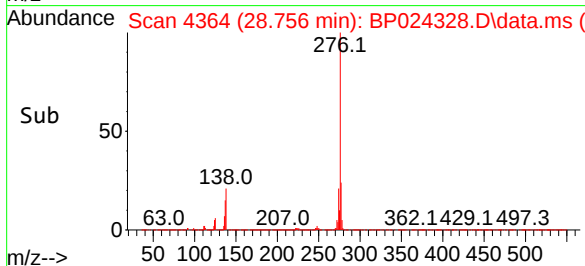
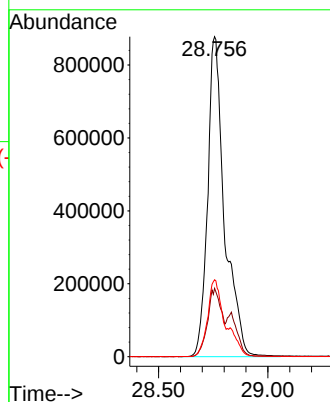
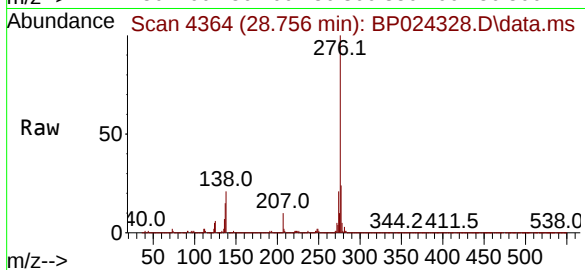
Tgt Ion:276 Resp: 4731750

Ion Ratio Lower Upper

276 100

138 17.6 14.5 21.7

277 21.0 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 41.748 ng

RT: 23.892 min Scan# 3537

Delta R.T. -0.041 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

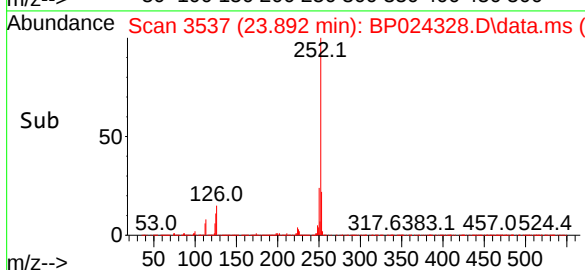
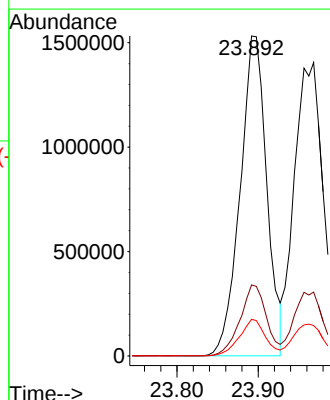
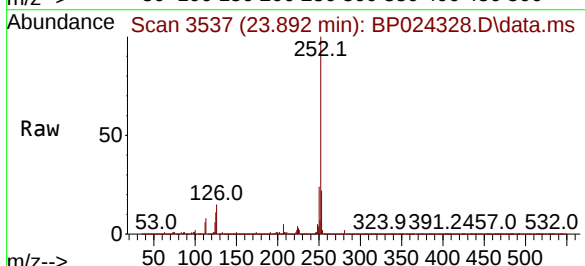
Tgt Ion:252 Resp: 3493620

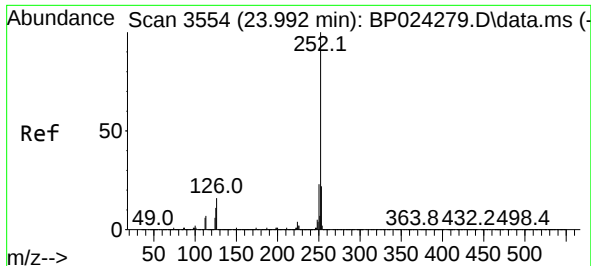
Ion Ratio Lower Upper

252 100

253 22.2 17.7 26.5

125 11.5 9.4 14.0

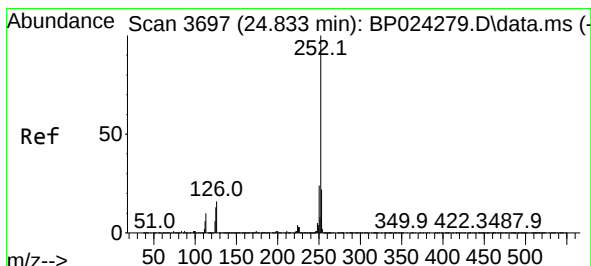
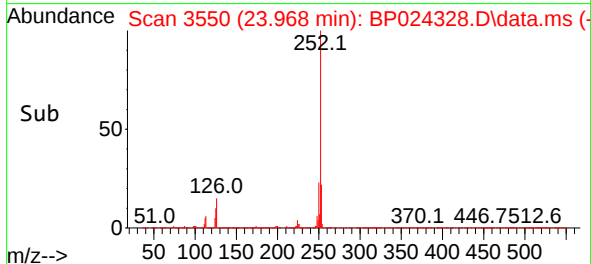
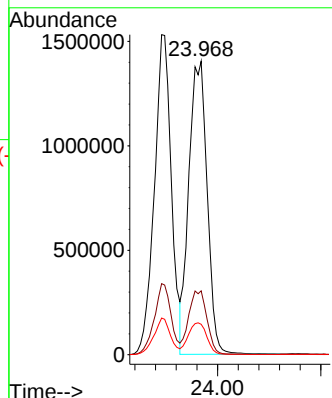
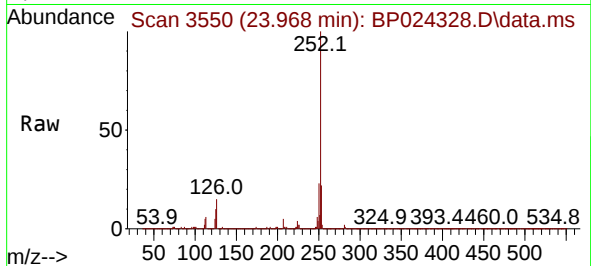




#89  
Benzo(k)fluoranthene  
Concen: 42.758 ng  
RT: 23.968 min Scan# 31  
Delta R.T. -0.030 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

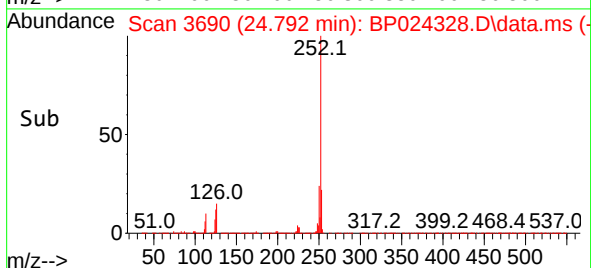
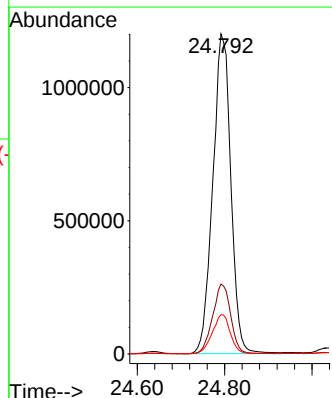
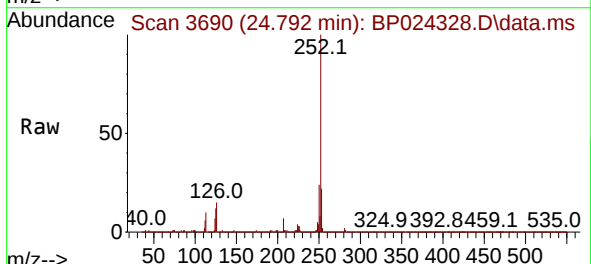
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BNA\_P  
ClientSampleId :  
SOIL-CUTTINGMSD

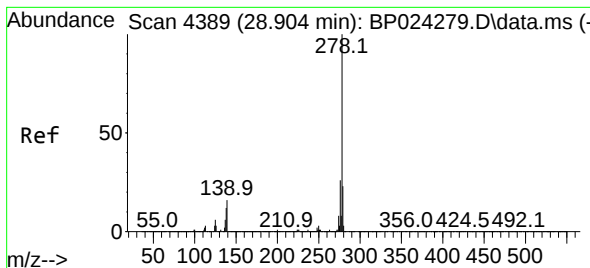
Tgt Ion:252 Resp: 3456251  
Ion Ratio Lower Upper  
252 100  
253 21.7 17.7 26.5  
125 10.3 9.1 13.7



#90  
Benzo(a)pyrene  
Concen: 47.524 ng  
RT: 24.792 min Scan# 3690  
Delta R.T. -0.041 min  
Lab File: BP024328.D  
Acq: 17 Apr 2025 16:01

Tgt Ion:252 Resp: 3430513  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.6 26.4  
125 12.2 10.1 15.1





#91

Dibenzo(a,h)anthracene

Concen: 48.121 ng

RT: 28.833 min Scan# 41

Delta R.T. -0.053 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Instrument :

BNA\_P

ClientSampleId :

SOIL-CUTTINGMSD

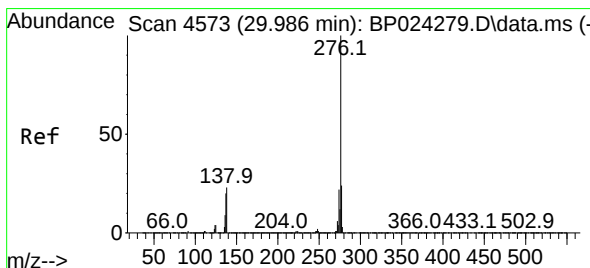
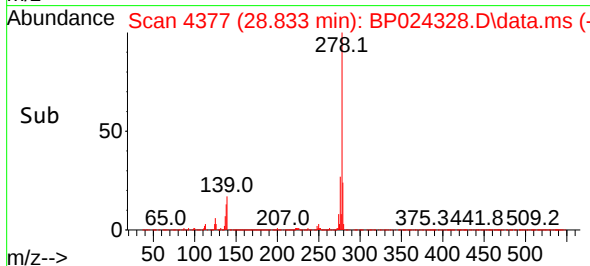
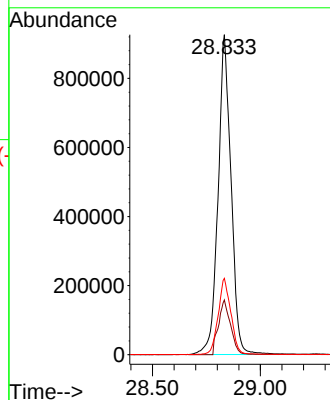
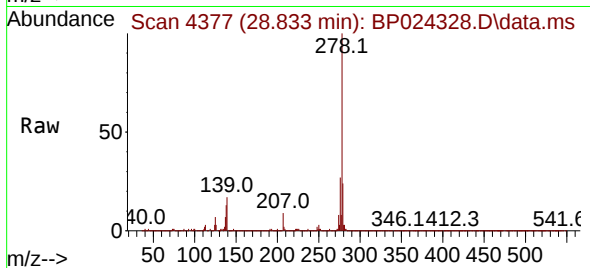
Tgt Ion:278 Resp: 3871306

Ion Ratio Lower Upper

278 100

139 17.1 12.6 19.0

279 23.9 18.5 27.7



#92

Benzo(g,h,i)perylene

Concen: 46.628 ng

RT: 29.950 min Scan# 4567

Delta R.T. -0.047 min

Lab File: BP024328.D

Acq: 17 Apr 2025 16:01

Tgt Ion:276 Resp: 3818194

Ion Ratio Lower Upper

276 100

277 24.2 18.9 28.3

138 22.0 18.7 28.1

