

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM020924\  
 Data File : BM044041.D  
 Acq On : 09 Feb 2024 16:06  
 Operator : MA/JU  
 Sample : P1187-01  
 Misc : LOD-MDL-SOIL-4ppm  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT1-2024

Quant Time: Feb 09 17:11:07 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 09 02:42:01 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.910  | 152  | 485325   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.710 | 136  | 2155904  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.551 | 164  | 1306841  | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.304 | 188  | 2582351  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.503 | 240  | 1945178  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.897 | 264  | 2046758  | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.481  | 112  | 4218013  | 126.406 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.075  | 99   | 5474227  | 128.937 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.081  | 82   | 3253655  | 80.083  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.045 | 330  | 1841519  | 130.147 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.180 | 172  | 7029153  | 75.911  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.945 | 244  | 8729549  | 78.672  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.387  | 88   | 53732    | 4.057   | ng    | 99       |
| 3) Pyridine                   | 3.793  | 79   | 122715   | 3.510   | ng    | 97       |
| 4) n-Nitrosodimethylamine     | 3.710  | 42   | 48322    | 3.643   | ng    | # 94     |
| 6) Aniline                    | 7.240  | 93   | 192083   | 4.601   | ng    | 98       |
| 8) 2-Chlorophenol             | 7.469  | 128  | 129780   | 3.724   | ng    | 99       |
| 9) Benzaldehyde               | 7.057  | 77   | 124748m  | 5.718   | ng    |          |
| 10) Phenol                    | 7.104  | 94   | 170898   | 3.988   | ng    | 99       |
| 11) bis(2-Chloroethyl)ether   | 7.346  | 93   | 143766   | 4.052   | ng    | 98       |
| 12) 1,3-Dichlorobenzene       | 7.793  | 146  | 149985   | 3.791   | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 7.940  | 146  | 154159   | 3.866   | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 8.257  | 146  | 148224   | 3.901   | ng    | 97       |
| 15) Benzyl Alcohol            | 8.151  | 79   | 113251   | 4.097   | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.440  | 45   | 184995   | 4.113   | ng    | 99       |
| 17) 2-Methylphenol            | 8.351  | 107  | 105340   | 3.745   | ng    | 97       |
| 18) Hexachloroethane          | 8.981  | 117  | 55247    | 3.700   | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 8.722  | 70   | 108923   | 4.178   | ng    | 99       |
| 20) 3+4-Methylphenols         | 8.681  | 107  | 144880   | 3.742   | ng    | 98       |
| 22) Acetophenone              | 8.740  | 105  | 220247   | 4.025   | ng    | # 97     |
| 24) Nitrobenzene              | 9.122  | 77   | 165817   | 3.985   | ng    | 99       |
| 25) Isophorone                | 9.639  | 82   | 295538   | 3.778   | ng    | 99       |
| 26) 2-Nitrophenol             | 9.828  | 139  | 62745    | 3.253   | ng    | 95       |
| 27) 2,4-Dimethylphenol        | 9.887  | 122  | 99938    | 4.052   | ng    | 96       |
| 28) bis(2-Chloroethoxy)met... | 10.134 | 93   | 197906   | 3.912   | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 10.357 | 162  | 111778   | 3.442   | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.569 | 180  | 135447   | 3.709   | ng    | 99       |
| 31) Naphthalene               | 10.757 | 128  | 452697   | 3.805   | ng    | 100      |
| 33) 4-Chloroaniline           | 10.881 | 127  | 179801   | 3.991   | ng    | 98       |
| 34) Hexachlorobutadiene       | 11.034 | 225  | 74772    | 3.577   | ng    | 98       |
| 35) Caprolactam               | 11.651 | 113  | 33236    | 3.181   | ng    | 88       |
| 36) 4-Chloro-3-methylphenol   | 11.998 | 107  | 123232   | 3.505   | ng    | 98       |
| 37) 2-Methylnaphthalene       | 12.375 | 142  | 302070   | 3.811   | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.592 | 142  | 293273   | 3.766   | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.733 | 216  | 146153   | 3.848   | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.704 | 237  | 56217    | 3.391   | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 12.980 | 196  | 84609    | 3.273   | ng    | 97       |
| 44) 2,4,5-Trichlorophenol     | 13.051 | 196  | 93408    | 3.293   | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM020924\  
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 Sample : P1187-01  
 Misc : LOD-MDL-SOIL-4ppm  
 ALS Vial : 13 Sample Multiplier: 1

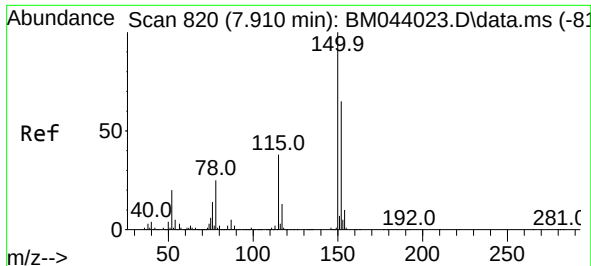
Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT1-2024

Quant Time: Feb 09 17:11:07 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 09 02:42:01 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) 1,1'-Biphenyl             | 13.386 | 154  | 402899   | 3.907 | ng    | 100      |
| 47) 2-Chloronaphthalene       | 13.427 | 162  | 304182   | 3.724 | ng    | 99       |
| 48) 2-Nitroaniline            | 13.639 | 65   | 76433    | 3.326 | ng    | 92       |
| 49) Acenaphthylene            | 14.274 | 152  | 489796   | 4.019 | ng    | 99       |
| 50) Dimethylphthalate         | 14.016 | 163  | 377582   | 3.897 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.139 | 165  | 69111    | 3.233 | ng    | 94       |
| 52) Acenaphthene              | 14.616 | 154  | 286277   | 3.796 | ng    | 100      |
| 53) 3-Nitroaniline            | 14.469 | 138  | 72498    | 3.156 | ng    | # 92     |
| 54) 2,4-Dinitrophenol         | 14.669 | 184  | 21665    | 7.158 | ng    | 94       |
| 55) Dibenzofuran              | 14.951 | 168  | 467075   | 4.001 | ng    | 100      |
| 56) 4-Nitrophenol             | 14.769 | 139  | 47666    | 2.552 | ng    | 89       |
| 57) 2,4-Dinitrotoluene        | 14.921 | 165  | 83801    | 2.999 | ng    | 90       |
| 58) Fluorene                  | 15.598 | 166  | 361300   | 4.005 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.174 | 232  | 78582    | 3.530 | ng    | 95       |
| 60) Diethylphthalate          | 15.386 | 149  | 367065   | 3.666 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.604 | 204  | 173799   | 3.976 | ng    | 99       |
| 62) 4-Nitroaniline            | 15.627 | 138  | 66370    | 2.870 | ng    | 96       |
| 63) Azobenzene                | 15.892 | 77   | 352340   | 3.750 | ng    | 97       |
| 65) 4,6-Dinitro-2-methylph... | 15.680 | 198  | 34198    | 2.222 | ng    | 95       |
| 66) n-Nitrosodiphenylamine    | 15.816 | 169  | 300029   | 3.824 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.498 | 248  | 82465    | 3.230 | ng    | 98       |
| 68) Hexachlorobenzene         | 16.592 | 284  | 115413   | 3.690 | ng    | 98       |
| 69) Atrazine                  | 16.774 | 200  | 93853    | 4.418 | ng    | 96       |
| 70) Pentachlorophenol         | 16.945 | 266  | 51890    | 2.550 | ng    | 100      |
| 71) Phenanthrene              | 17.345 | 178  | 551065   | 4.041 | ng    | 99       |
| 72) Anthracene                | 17.433 | 178  | 508751   | 3.768 | ng    | 100      |
| 73) Carbazole                 | 17.710 | 167  | 468911   | 3.572 | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.292 | 149  | 568979   | 3.334 | ng    | 100      |
| 75) Fluoranthene              | 19.362 | 202  | 548010   | 3.578 | ng    | 99       |
| 77) Benzidine                 | 19.562 | 184  | 160246   | 5.301 | ng    | 97       |
| 78) Pyrene                    | 19.727 | 202  | 569721   | 3.803 | ng    | 98       |
| 80) Butylbenzylphthalate      | 20.651 | 149  | 200706   | 3.014 | ng    | 97       |
| 81) Benzo(a)anthracene        | 21.486 | 228  | 519035   | 3.836 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 21.427 | 252  | 157799   | 3.554 | ng    | 98       |
| 83) Chrysene                  | 21.539 | 228  | 479538   | 3.751 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.439 | 149  | 331889   | 3.378 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.374 | 149  | 464251   | 2.706 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 26.374 | 276  | 508439   | 3.510 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 23.168 | 252  | 473405   | 3.700 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.215 | 252  | 450903   | 3.709 | ng    | 99       |
| 90) Benzo(a)pyrene            | 23.786 | 252  | 385705   | 3.451 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 26.403 | 278  | 434977   | 3.590 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 27.132 | 276  | 416832   | 3.392 | ng    | 98       |

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

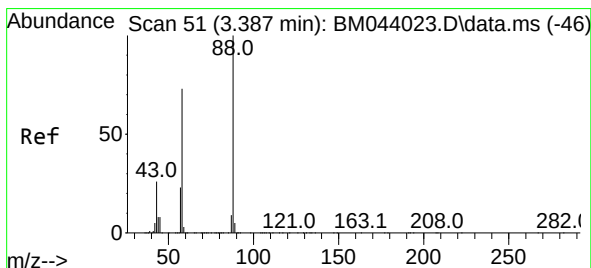
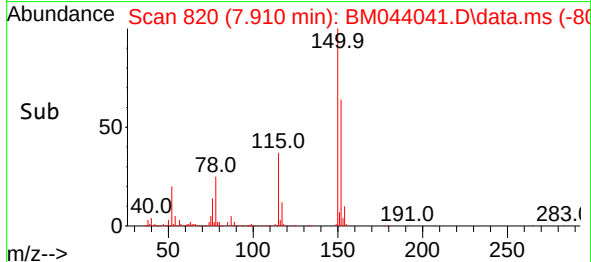
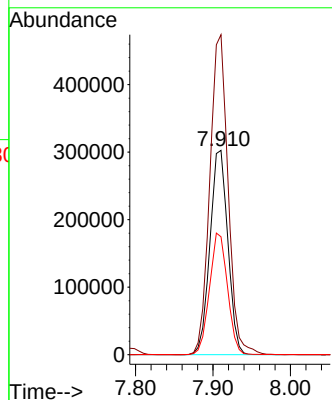
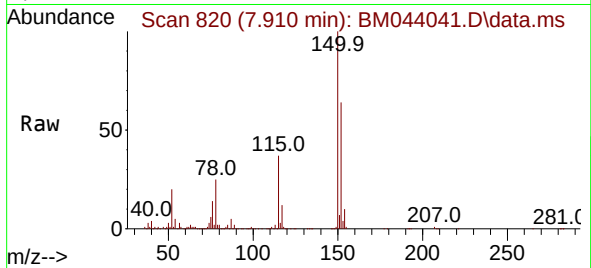




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.910 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

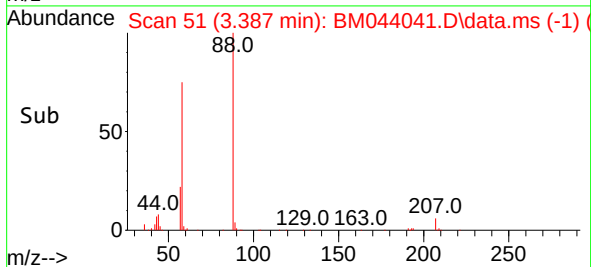
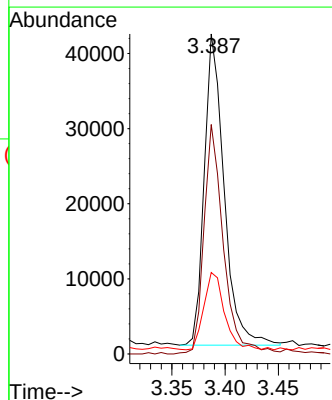
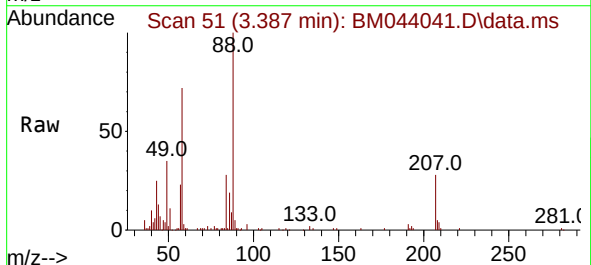
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

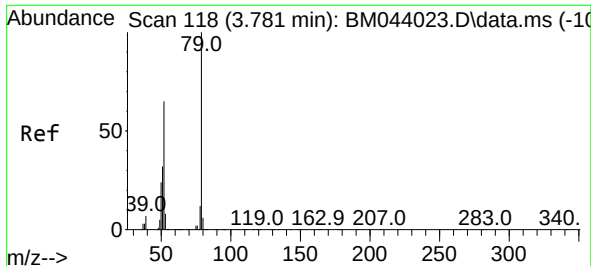
Tgt Ion:152 Resp: 485325  
Ion Ratio Lower Upper  
152 100  
150 156.6 122.7 184.1  
115 57.8 47.0 70.6



#2  
1,4-Dioxane  
Concen: 4.057 ng  
RT: 3.387 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion: 88 Resp: 53732  
Ion Ratio Lower Upper  
88 100  
58 72.2 58.1 87.1  
43 25.7 21.1 31.7

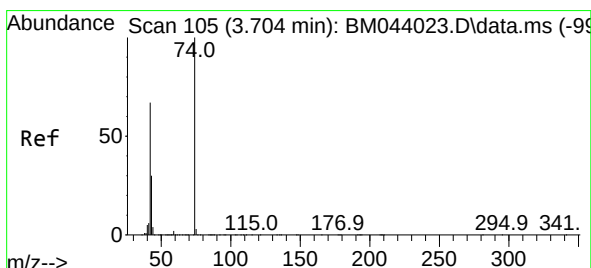
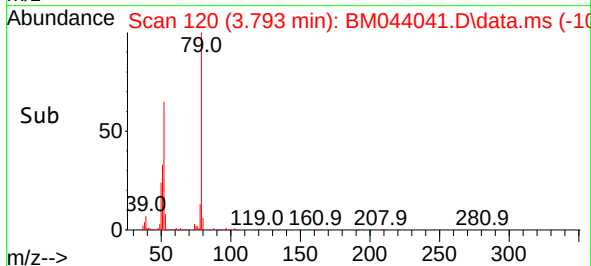
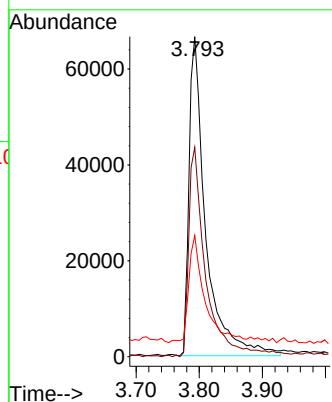
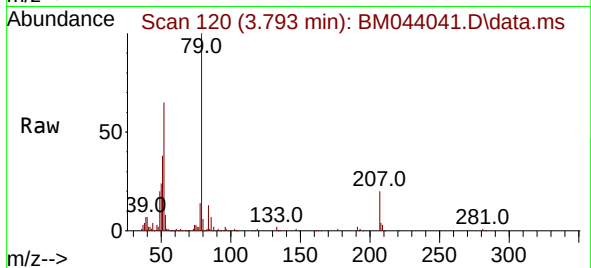




#3  
Pyridine  
Concen: 3.510 ng  
RT: 3.793 min Scan# 118  
Delta R.T. 0.012 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

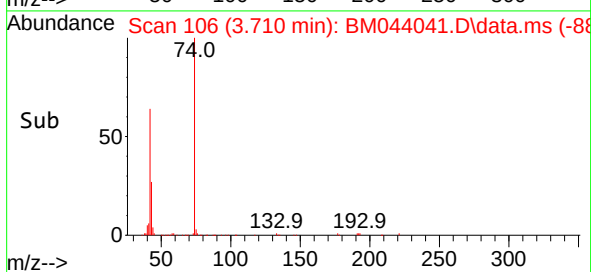
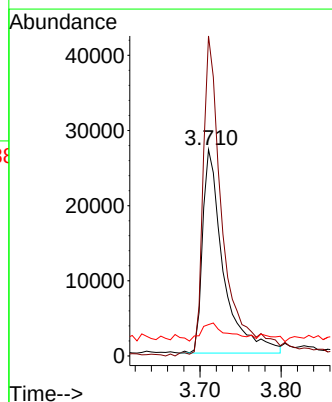
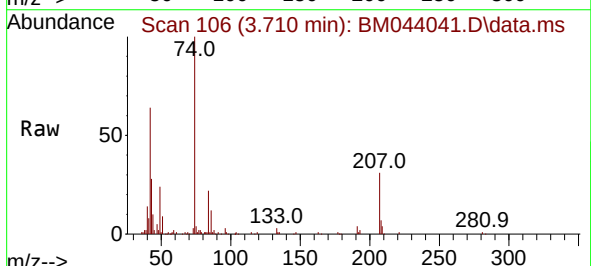
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

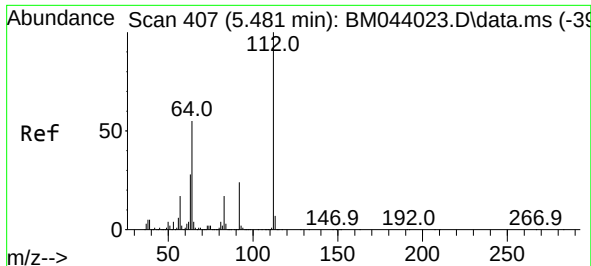
Tgt Ion: 79 Resp: 122715  
Ion Ratio Lower Upper  
79 100  
52 65.4 52.2 78.2  
51 37.9 26.2 39.4



#4  
n-Nitrosodimethylamine  
Concen: 3.643 ng  
RT: 3.710 min Scan# 106  
Delta R.T. 0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion: 42 Resp: 48322  
Ion Ratio Lower Upper  
42 100  
74 155.1 118.6 178.0  
44 15.2 5.6 8.4

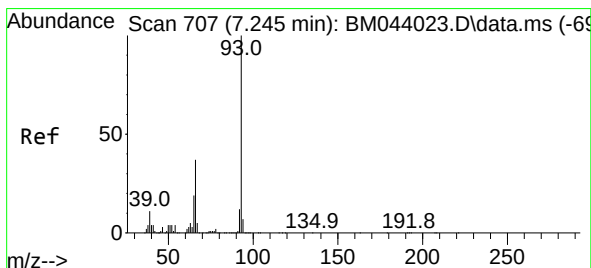
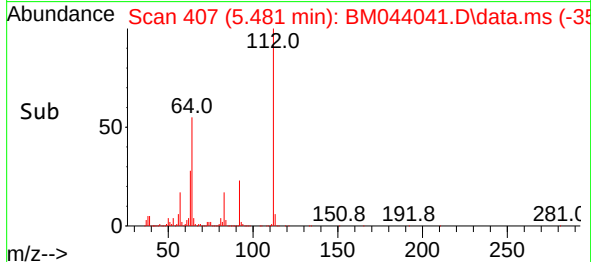
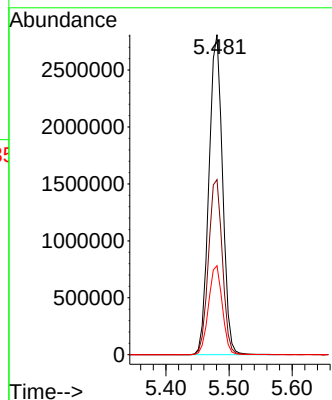
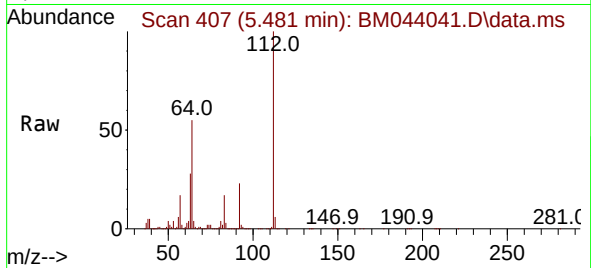




#5  
2-Fluorophenol  
Concen: 126.406 ng  
RT: 5.481 min Scan# 407  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

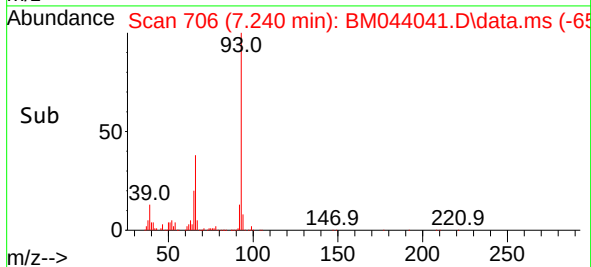
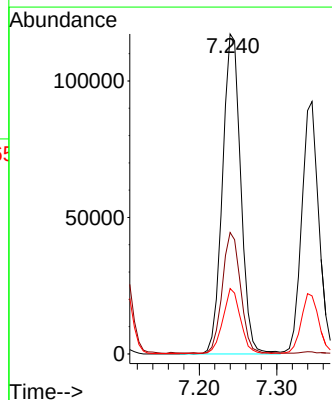
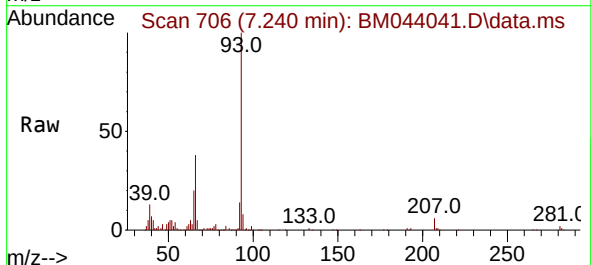
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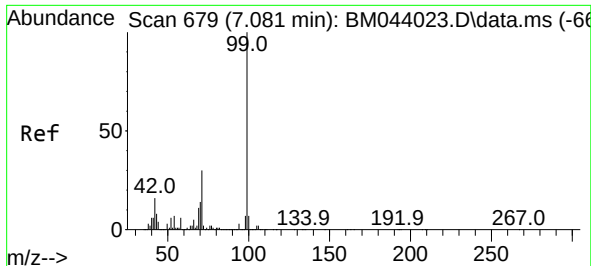
Tgt Ion:112 Resp: 4218013  
Ion Ratio Lower Upper  
112 100  
64 54.7 44.2 66.4  
63 27.8 22.6 34.0



#6  
Aniline  
Concen: 4.601 ng  
RT: 7.240 min Scan# 706  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion: 93 Resp: 192083  
Ion Ratio Lower Upper  
93 100  
66 37.9 29.4 44.0  
65 20.4 15.2 22.8



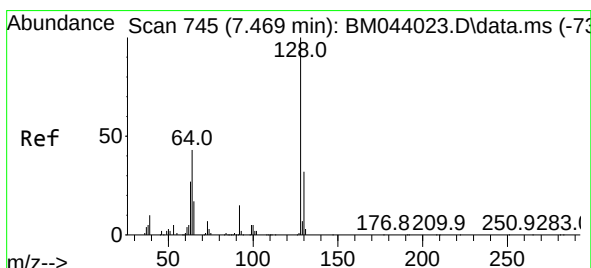
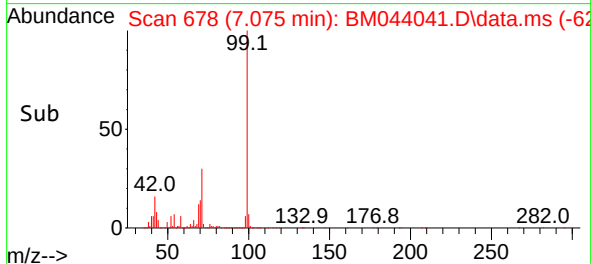
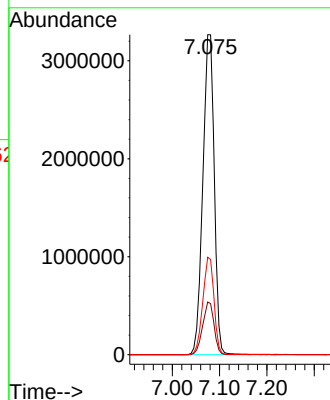
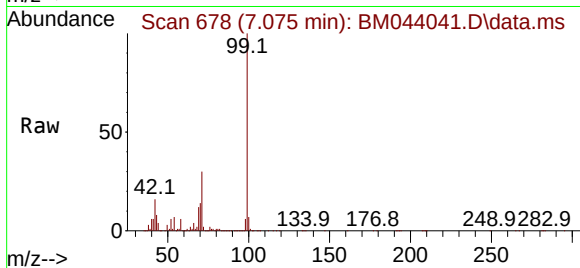


#7  
Phenol-d6  
Concen: 128.937 ng  
RT: 7.075 min Scan# 679  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

Tgt Ion: 99 Resp: 5474227

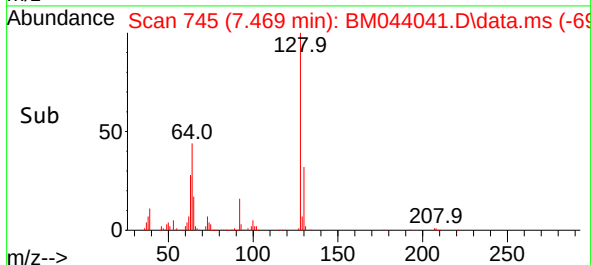
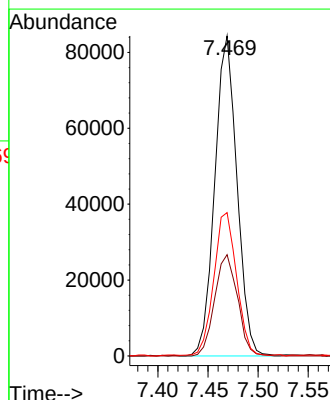
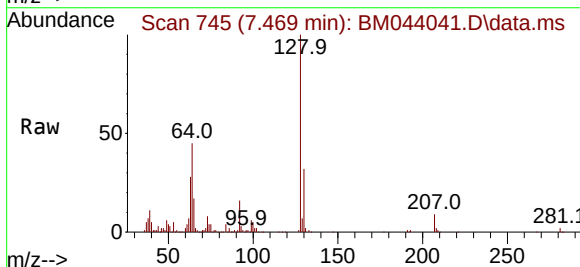
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|-----|-------|-------|-------|
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| 71  | 30.4  | 23.9  | 35.9  |

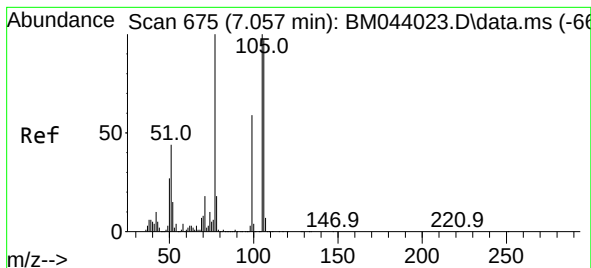


#8  
2-Chlorophenol  
Concen: 3.724 ng  
RT: 7.469 min Scan# 745  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion: 128 Resp: 129780

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 130 | 31.6  | 12.1  | 52.1  |
| 64  | 44.8  | 26.0  | 66.0  |





#9

Benzaldehyde

Concen: 5.718 ng m

RT: 7.057 min Scan# 675

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

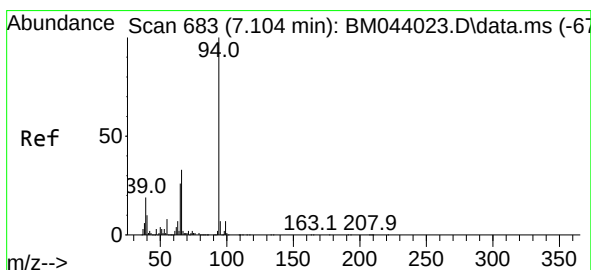
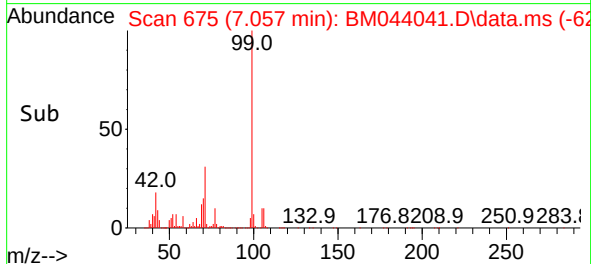
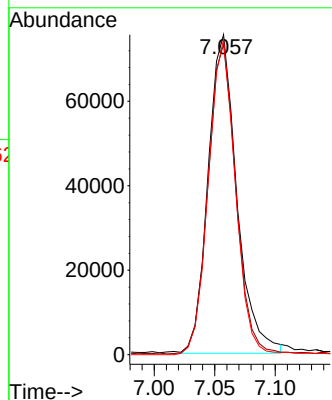
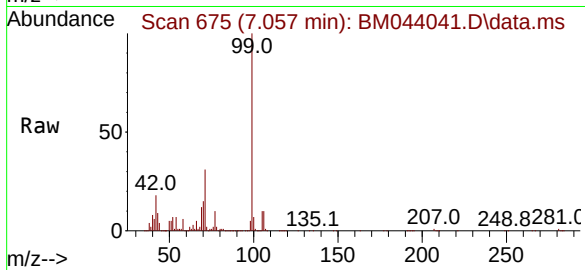
Tgt Ion: 77 Resp: 124748

Ion Ratio Lower Upper

77 100

105 97.0 80.0 120.0

106 98.6 76.8 116.8



#10

Phenol

Concen: 3.988 ng

RT: 7.104 min Scan# 683

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

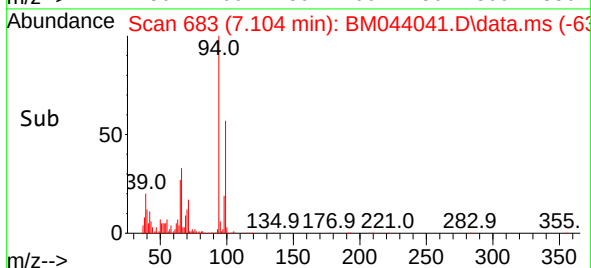
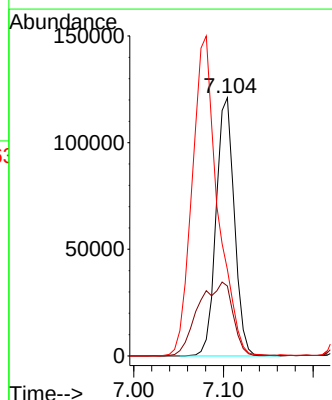
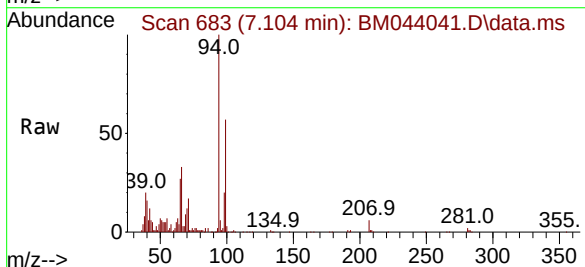
Tgt Ion: 94 Resp: 170898

Ion Ratio Lower Upper

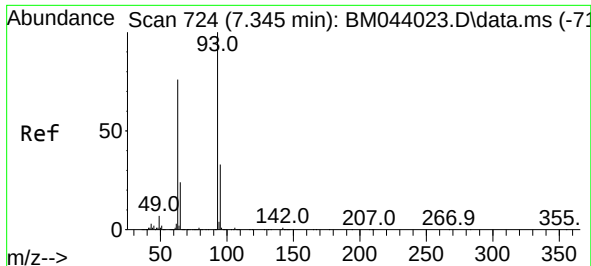
94 100

65 27.1 6.4 46.4

66 33.5 13.2 53.2



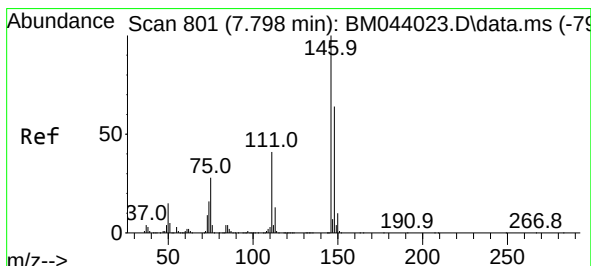
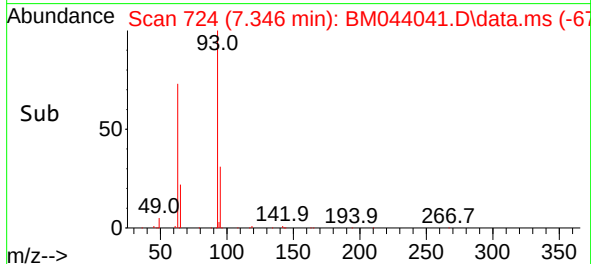
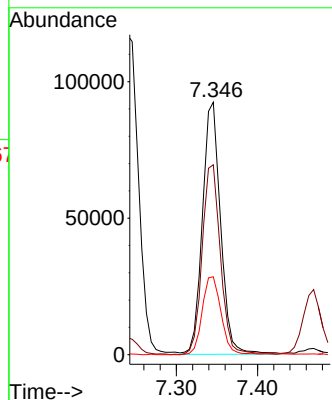
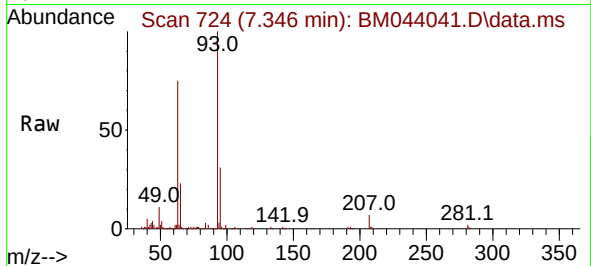




#11  
bis(2-Chloroethyl)ether  
Concen: 4.052 ng  
RT: 7.346 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

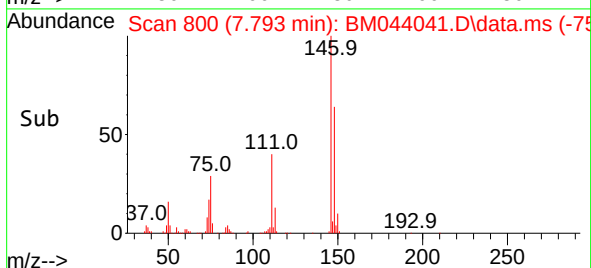
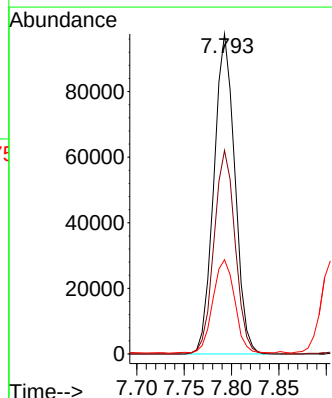
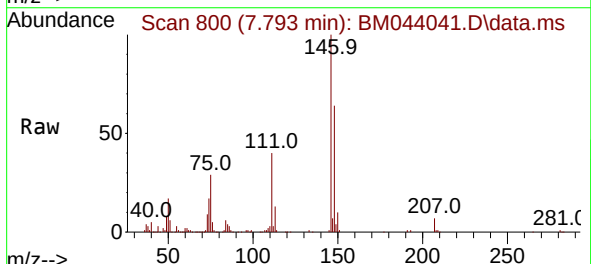
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

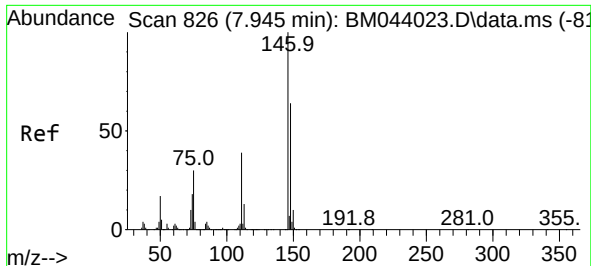
Tgt Ion: 93 Resp: 143766  
Ion Ratio Lower Upper  
93 100  
63 75.2 55.9 95.9  
95 30.9 13.0 53.0



#12  
1,3-Dichlorobenzene  
Concen: 3.791 ng  
RT: 7.793 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:146 Resp: 149985  
Ion Ratio Lower Upper  
146 100  
148 63.6 51.3 76.9  
75 29.5 22.7 34.1

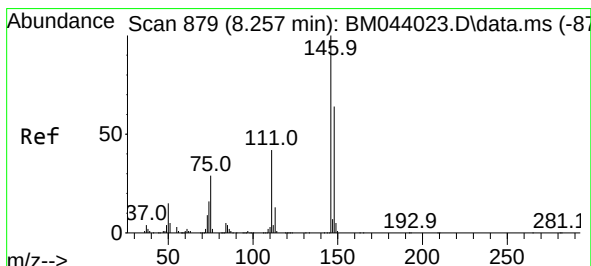
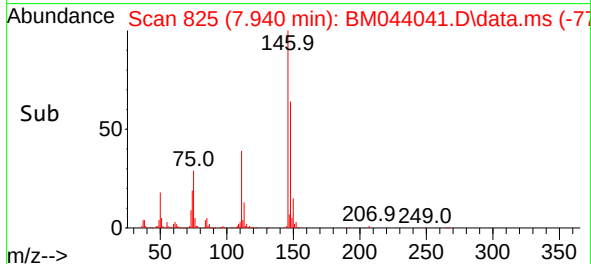
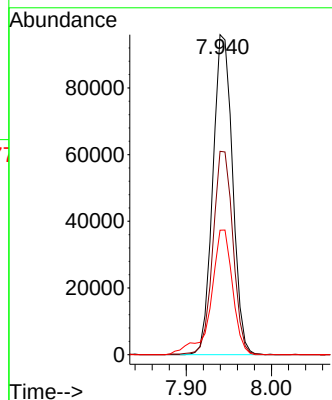
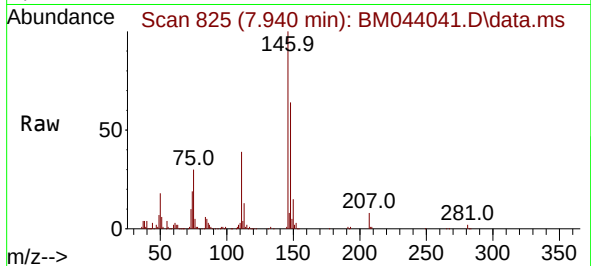




#13  
1,4-Dichlorobenzene  
Concen: 3.866 ng  
RT: 7.940 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

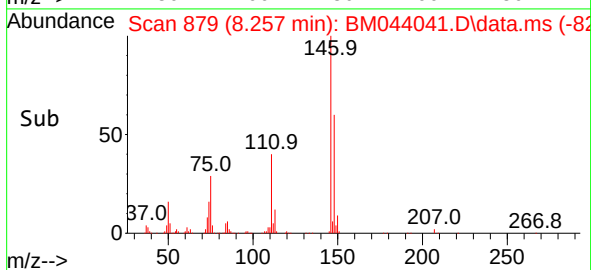
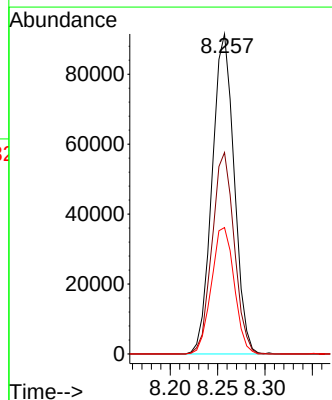
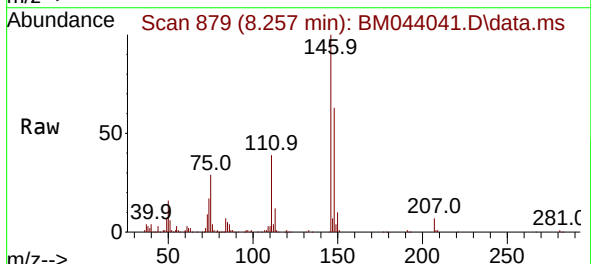
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

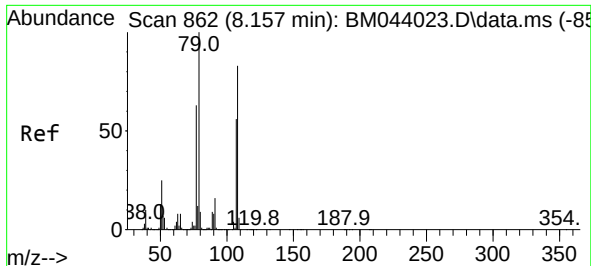
Tgt Ion:146 Resp: 154159  
Ion Ratio Lower Upper  
146 100  
148 63.5 51.2 76.8  
111 38.9 31.2 46.8



#14  
1,2-Dichlorobenzene  
Concen: 3.901 ng  
RT: 8.257 min Scan# 879  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:146 Resp: 148224  
Ion Ratio Lower Upper  
146 100  
148 62.9 51.4 77.2  
111 39.5 33.7 50.5

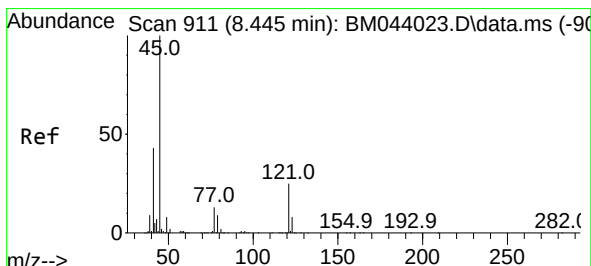
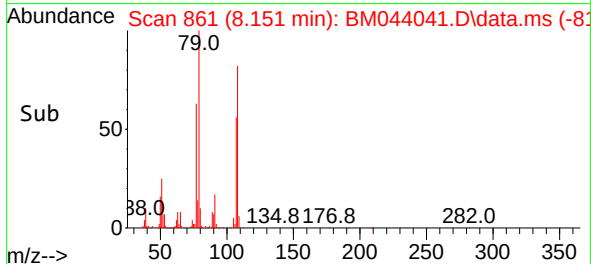
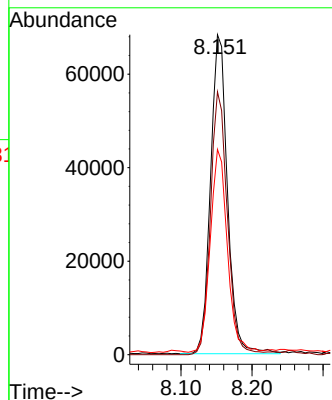
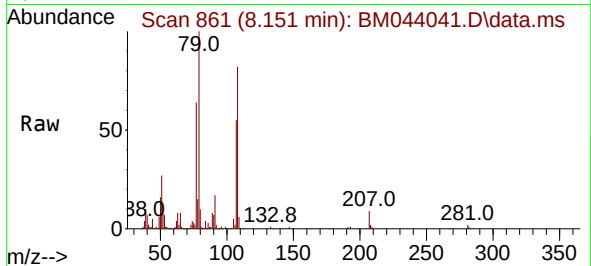




#15  
Benzyl Alcohol  
Concen: 4.097 ng  
RT: 8.151 min Scan# 80  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

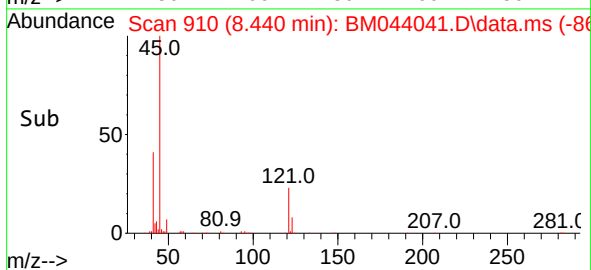
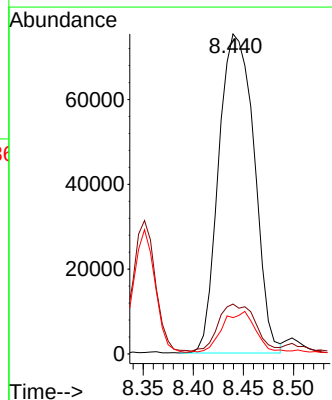
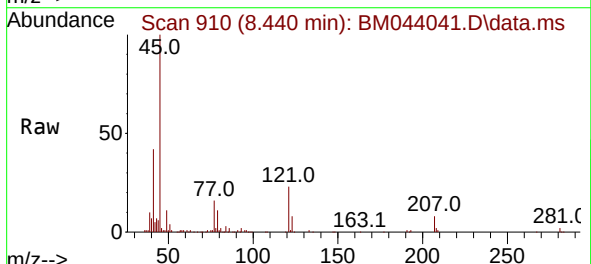
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

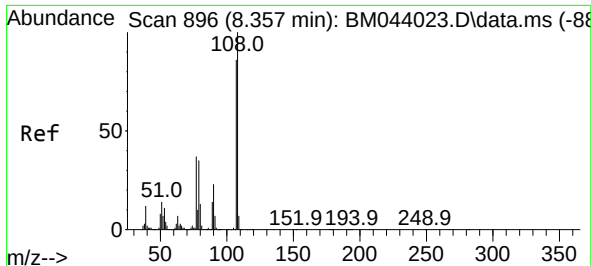
Tgt Ion: 79 Resp: 113251  
Ion Ratio Lower Upper  
79 100  
108 82.2 66.0 99.0  
77 64.1 50.4 75.6



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 4.113 ng  
RT: 8.440 min Scan# 910  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion: 45 Resp: 184995  
Ion Ratio Lower Upper  
45 100  
77 15.6 0.0 35.1  
79 11.4 0.0 31.5

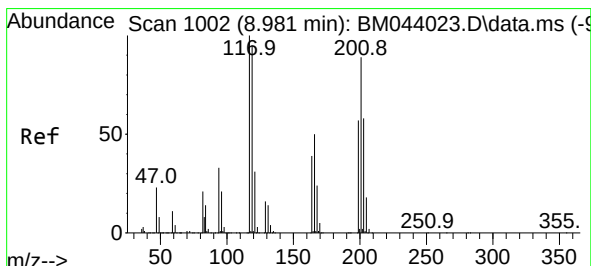
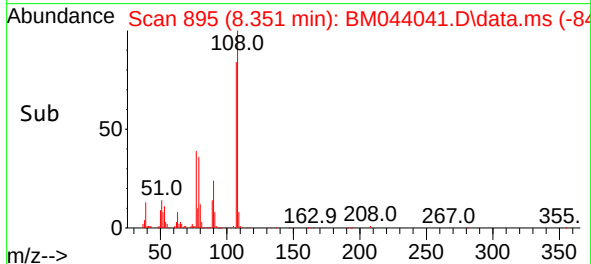
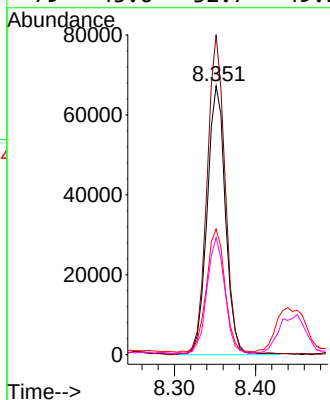
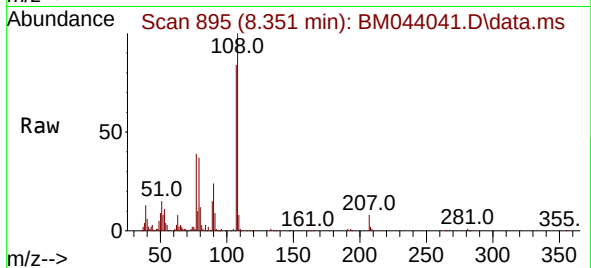




#17  
2-Methylphenol  
Concen: 3.745 ng  
RT: 8.351 min Scan# 896  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

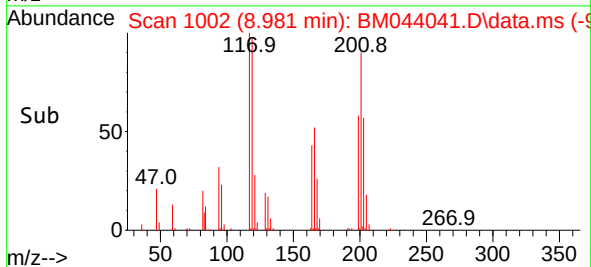
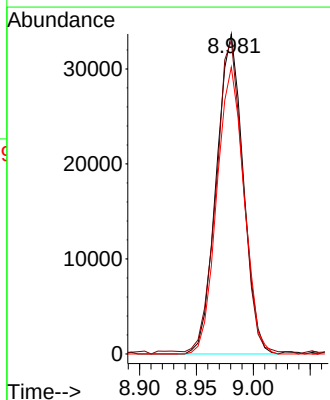
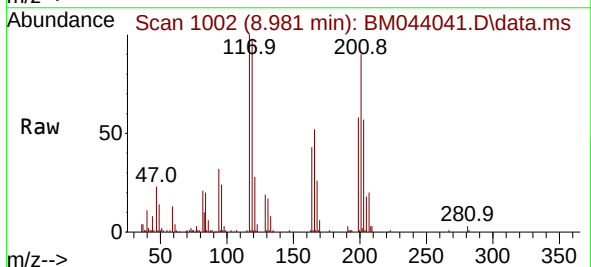
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

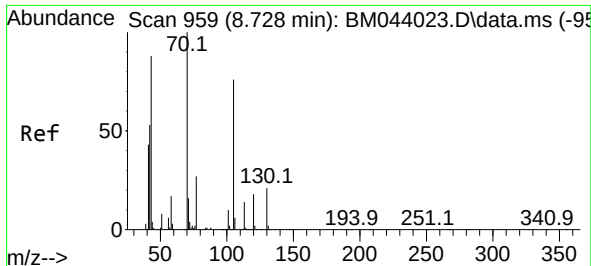
Tgt Ion:107 Resp: 105340  
Ion Ratio Lower Upper  
107 100  
108 119.0 93.4 140.2  
77 46.8 34.7 52.1  
79 43.6 32.7 49.1



#18  
Hexachloroethane  
Concen: 3.700 ng  
RT: 8.981 min Scan# 1002  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:117 Resp: 55247  
Ion Ratio Lower Upper  
117 100  
119 97.9 75.7 113.5  
201 91.3 71.5 107.3

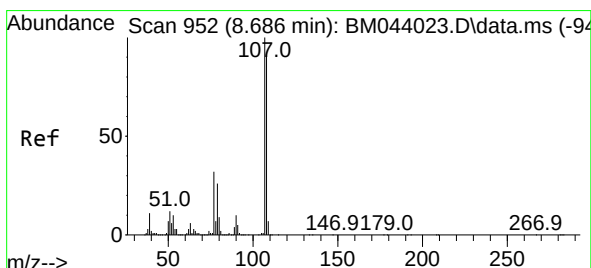
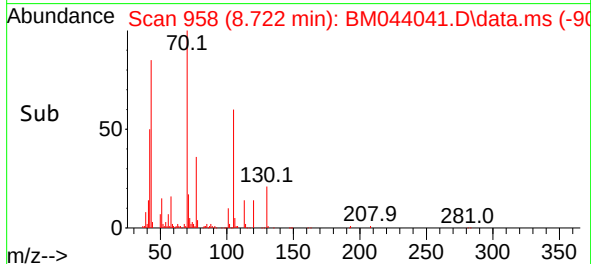
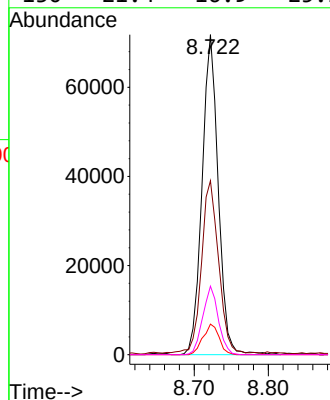
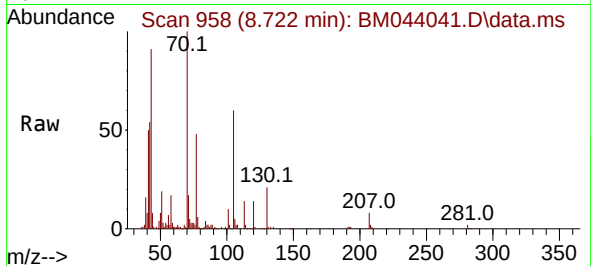




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.178 ng  
RT: 8.722 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

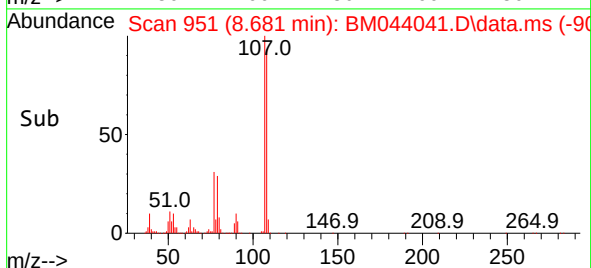
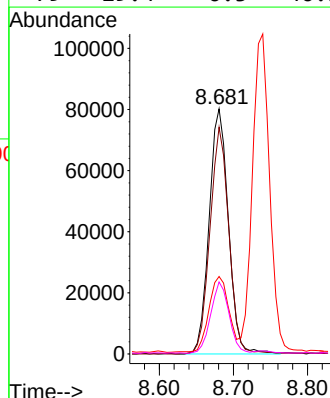
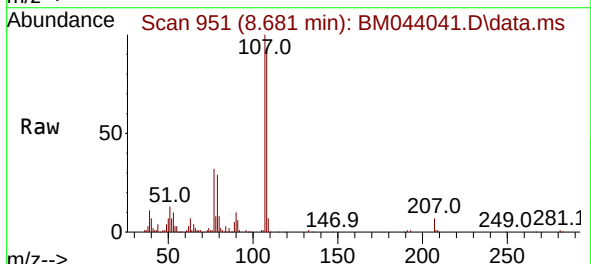
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ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

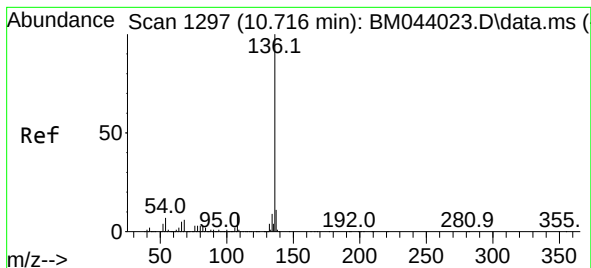
Tgt Ion: 70 Resp: 108923  
Ion Ratio Lower Upper  
70 100  
42 54.3 42.6 64.0  
101 9.5 7.8 11.6  
130 21.4 16.9 25.3



#20  
3+4-Methylphenols  
Concen: 3.742 ng  
RT: 8.681 min Scan# 951  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion: 107 Resp: 144880  
Ion Ratio Lower Upper  
107 100  
108 92.5 71.5 111.5  
77 31.6 11.8 51.8  
79 29.4 6.3 46.3

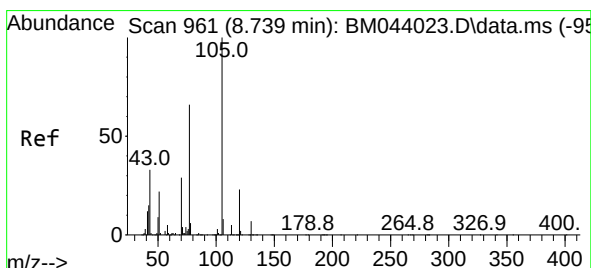
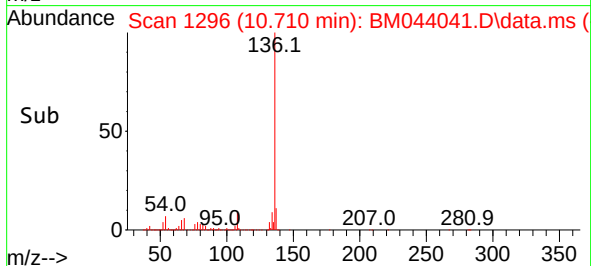
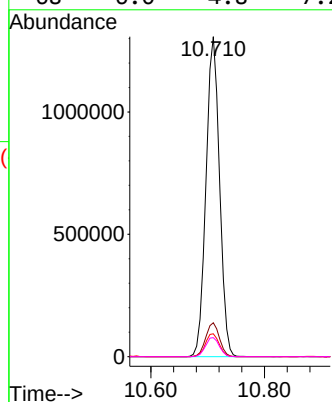
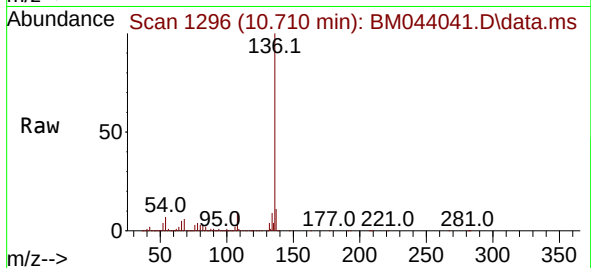




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.710 min Scan# 1297  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

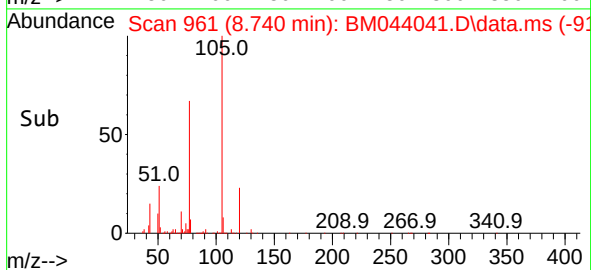
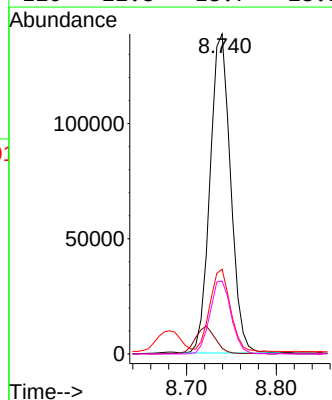
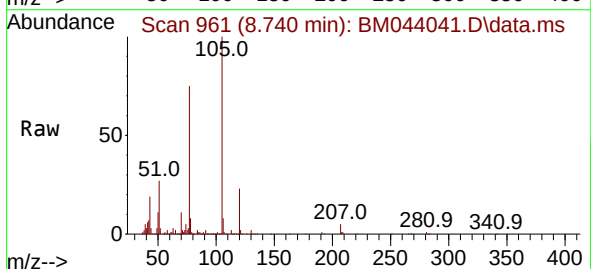
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ClientSampleId : LOD-MDL-SOIL-01-QT1-2024

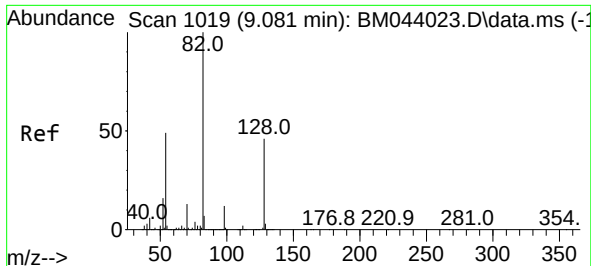
Tgt Ion:136 Resp: 2155904  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.9 13.3  
54 7.1 5.9 8.9  
68 6.0 4.8 7.2



#22  
Acetophenone  
Concen: 4.025 ng  
RT: 8.740 min Scan# 961  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:105 Resp: 220247  
Ion Ratio Lower Upper  
105 100  
71 1.8 4.0 6.0#  
51 26.5 20.1 30.1  
120 22.8 18.7 28.1

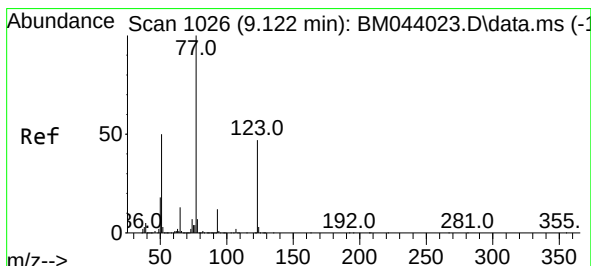
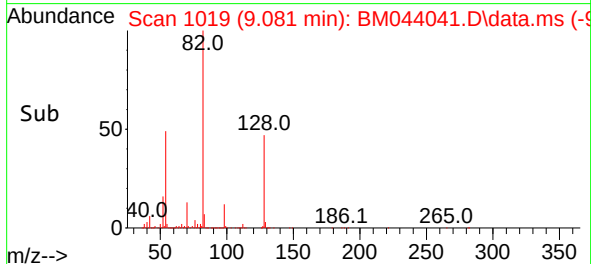
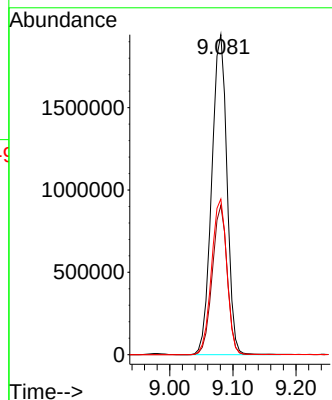
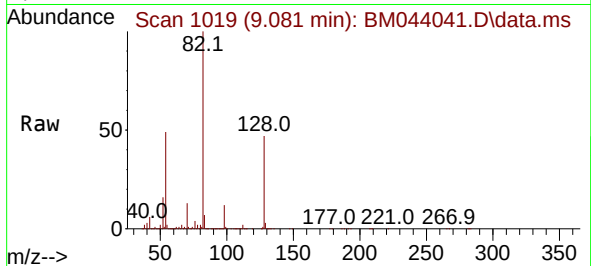




#23  
Nitrobenzene-d5  
Concen: 80.083 ng  
RT: 9.081 min Scan# 1019  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

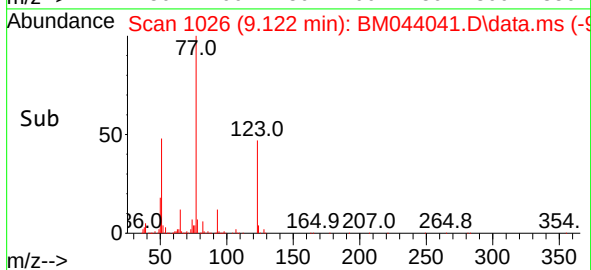
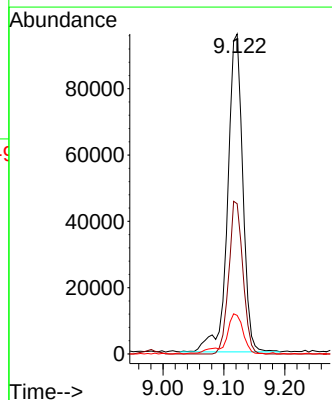
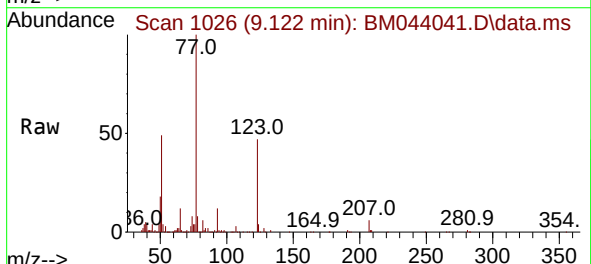
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BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

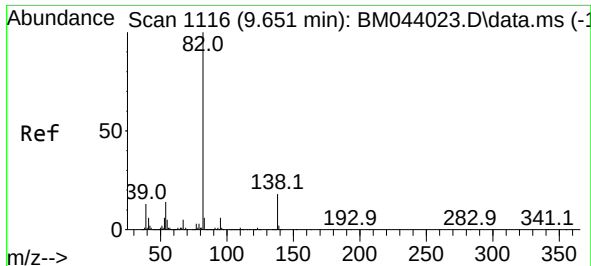
Tgt Ion: 82 Resp: 3253655  
Ion Ratio Lower Upper  
82 100  
128 46.6 37.1 55.7  
54 48.6 38.9 58.3



#24  
Nitrobenzene  
Concen: 3.985 ng  
RT: 9.122 min Scan# 1026  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion: 77 Resp: 165817  
Ion Ratio Lower Upper  
77 100  
123 47.0 37.8 56.8  
65 12.0 10.5 15.7

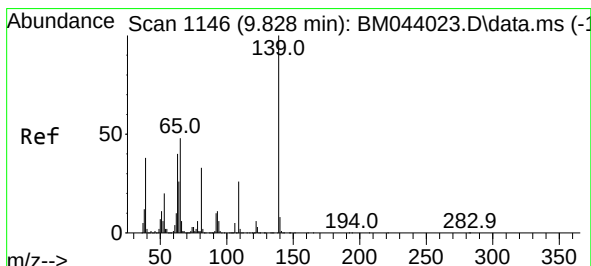
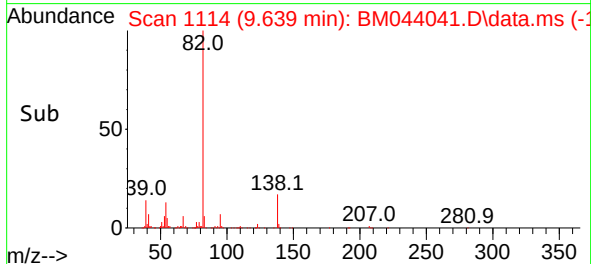
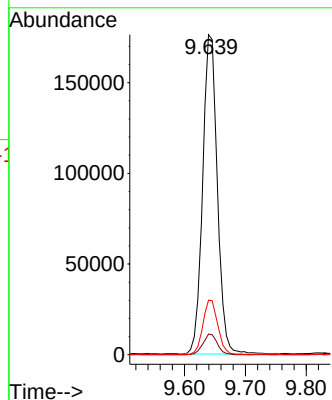
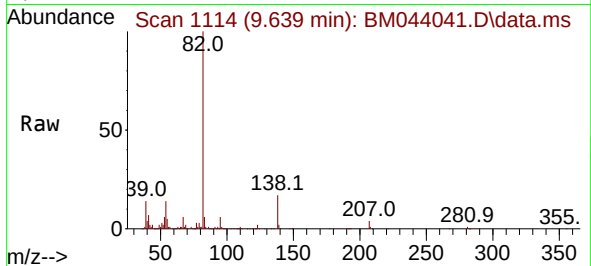




#25  
Isophorone  
Concen: 3.778 ng  
RT: 9.639 min Scan# 1114  
Delta R.T. -0.012 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

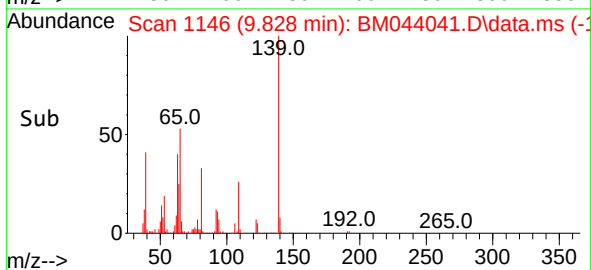
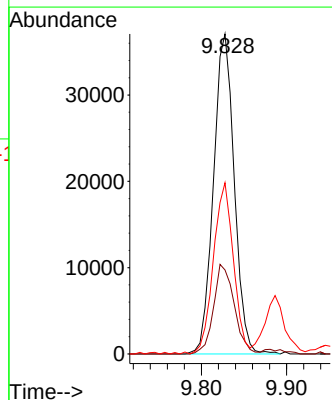
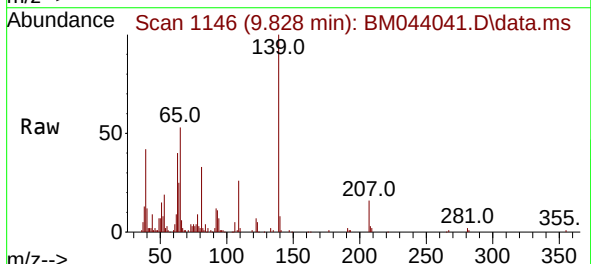
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

Tgt Ion: 82 Resp: 295538  
Ion Ratio Lower Upper  
82 100  
95 6.5 5.2 7.8  
138 17.1 14.3 21.5

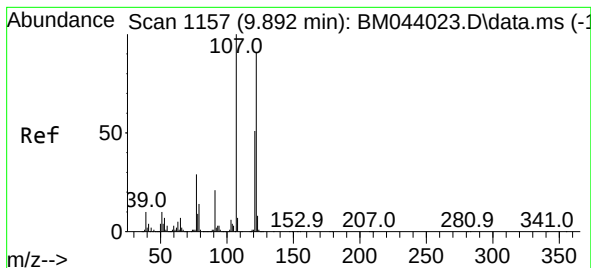


#26  
2-Nitrophenol  
Concen: 3.253 ng  
RT: 9.828 min Scan# 1146  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion: 139 Resp: 62745  
Ion Ratio Lower Upper  
139 100  
109 26.2 21.2 31.8  
65 53.5 38.5 57.7







#27

2,4-Dimethylphenol

Concen: 4.052 ng

RT: 9.887 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

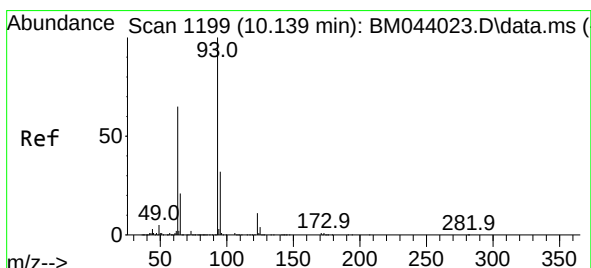
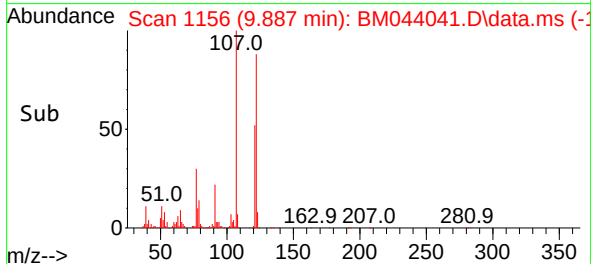
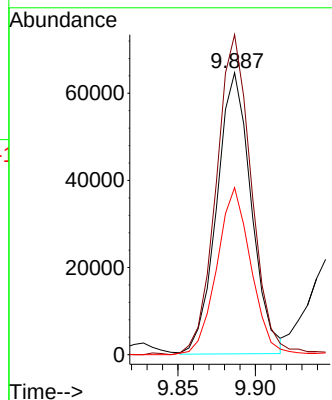
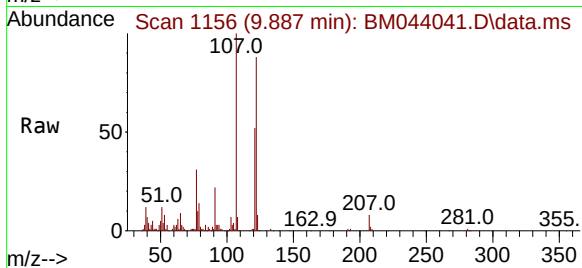
Tgt Ion:122 Resp: 99938

Ion Ratio Lower Upper

122 100

107 113.5 87.8 131.8

121 59.2 44.7 67.1



#28

bis(2-Chloroethoxy)methane

Concen: 3.912 ng

RT: 10.134 min Scan# 1198

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

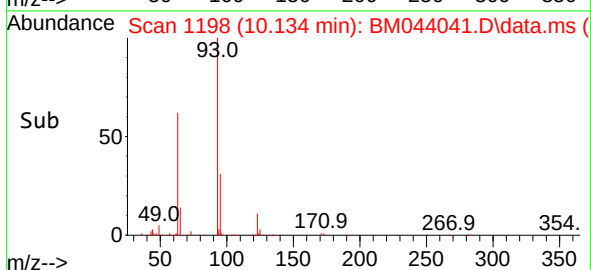
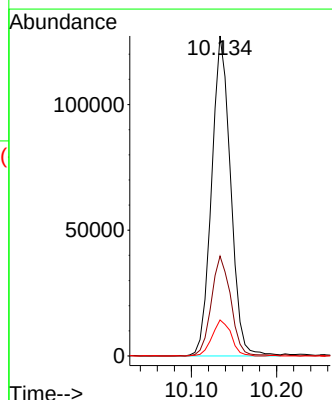
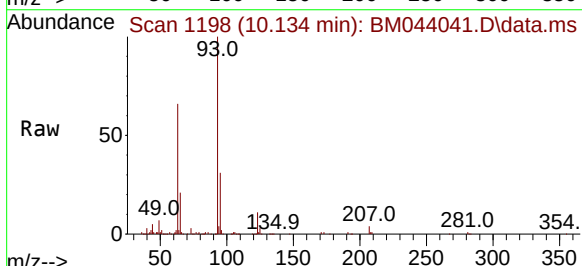
Tgt Ion: 93 Resp: 197906

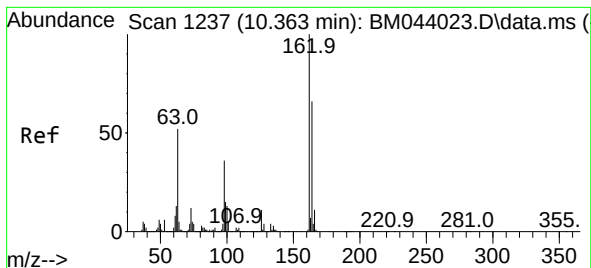
Ion Ratio Lower Upper

93 100

95 31.2 26.0 39.0

123 11.3 9.2 13.8





#29

2,4-Dichlorophenol

Concen: 3.442 ng

RT: 10.357 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

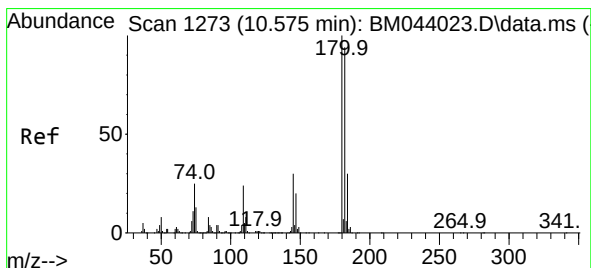
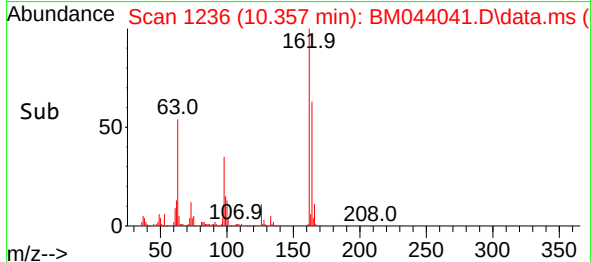
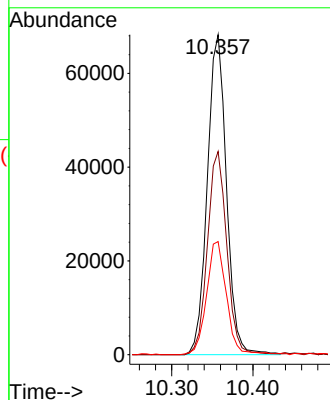
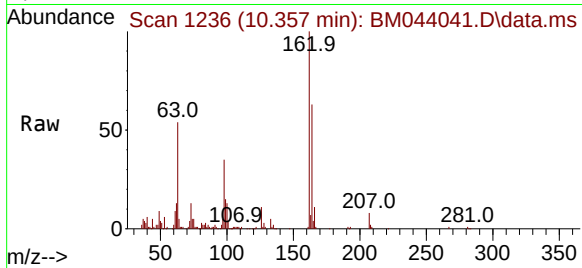
Tgt Ion:162 Resp: 111778

Ion Ratio Lower Upper

162 100

164 63.5 46.1 86.1

98 35.3 15.9 55.9



#30

1,2,4-Trichlorobenzene

Concen: 3.709 ng

RT: 10.569 min Scan# 1272

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

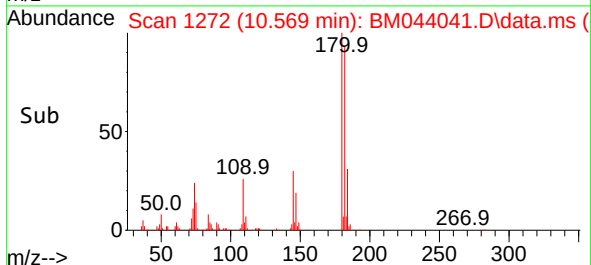
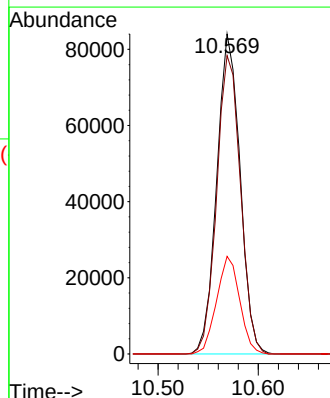
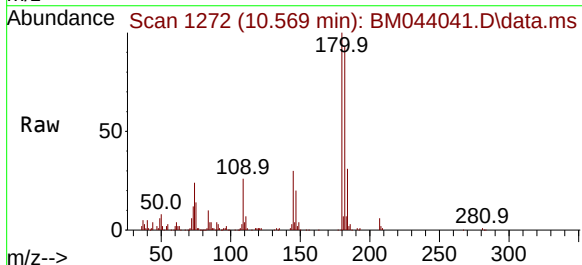
Tgt Ion:180 Resp: 135447

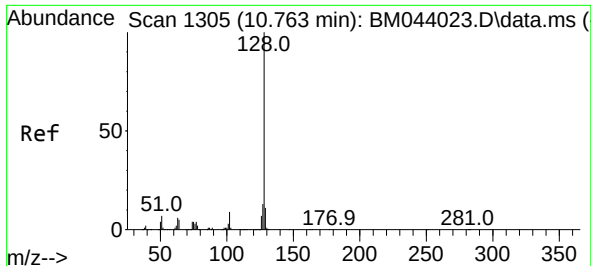
Ion Ratio Lower Upper

180 100

182 93.3 75.2 112.8

145 30.5 24.3 36.5

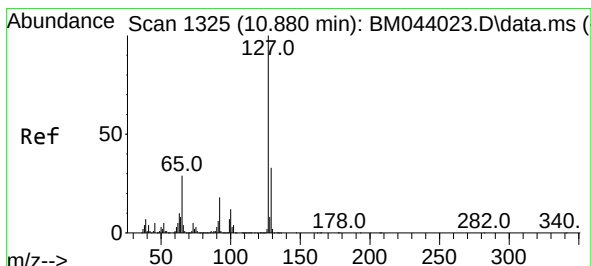
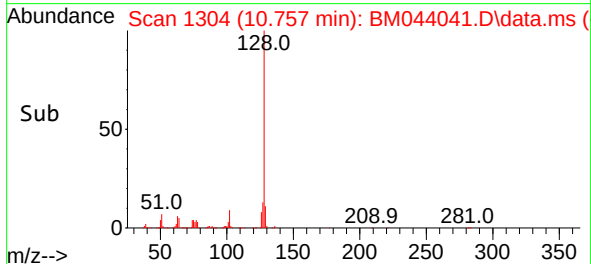
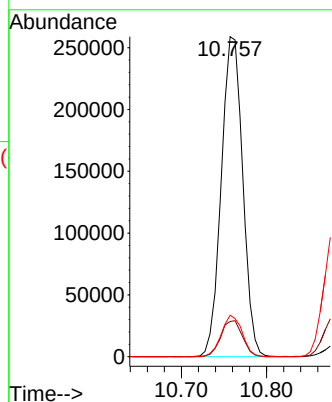
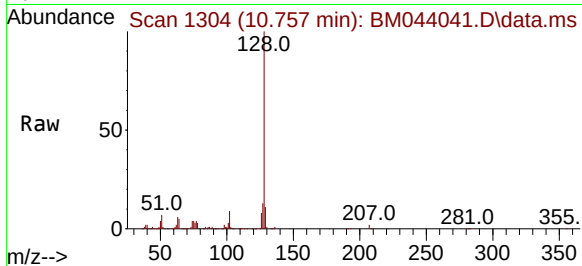




#31  
Naphthalene  
Concen: 3.805 ng  
RT: 10.757 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

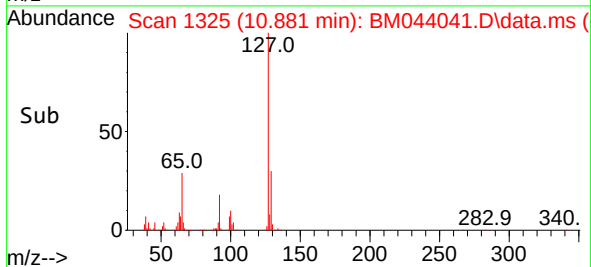
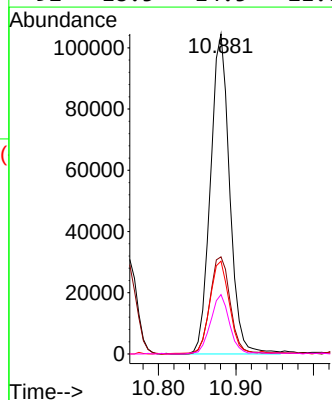
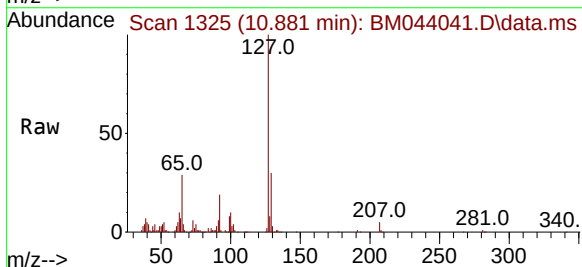
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

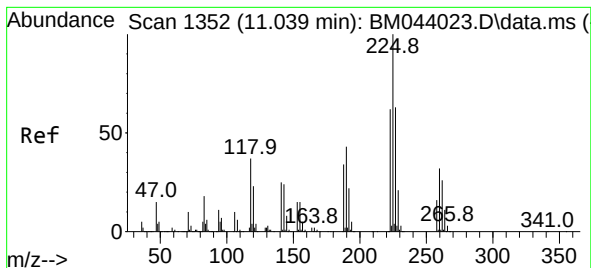
Tgt Ion:128 Resp: 452697  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.0 13.4  
127 13.0 10.3 15.5



#33  
4-Chloroaniline  
Concen: 3.991 ng  
RT: 10.881 min Scan# 1325  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:127 Resp: 179801  
Ion Ratio Lower Upper  
127 100  
129 30.3 26.0 39.0  
65 29.0 23.0 34.6  
92 18.5 14.5 21.7





#34

Hexachlorobutadiene

Concen: 3.577 ng

RT: 11.034 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

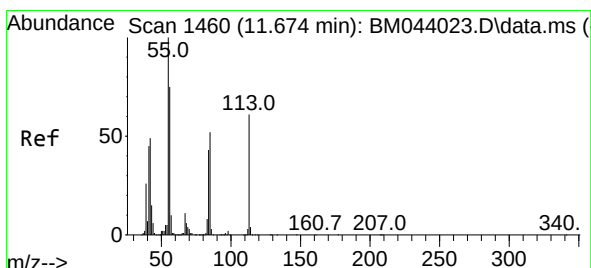
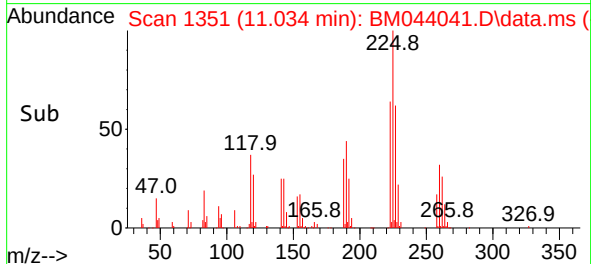
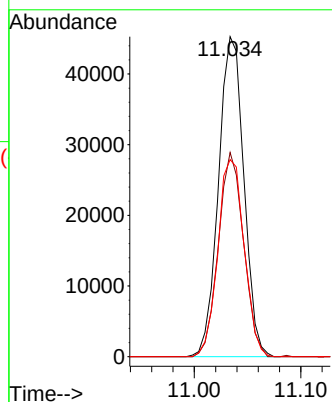
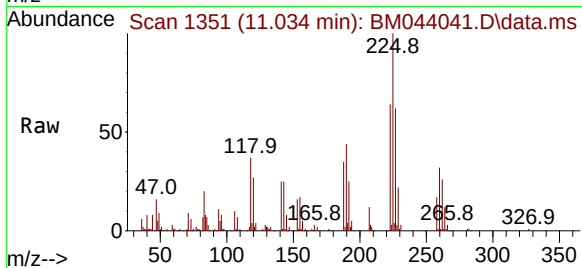
Tgt Ion:225 Resp: 74772

Ion Ratio Lower Upper

225 100

223 63.8 49.9 74.9

227 61.6 50.6 76.0



#35

Caprolactam

Concen: 3.181 ng

RT: 11.651 min Scan# 1456

Delta R.T. -0.023 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

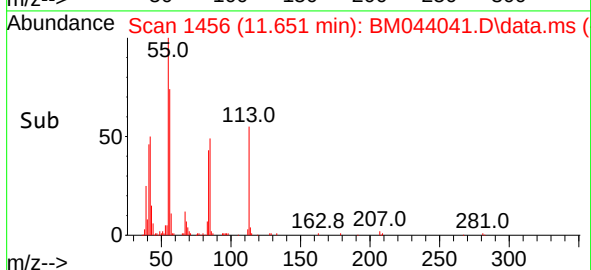
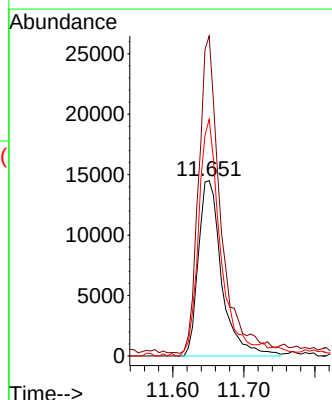
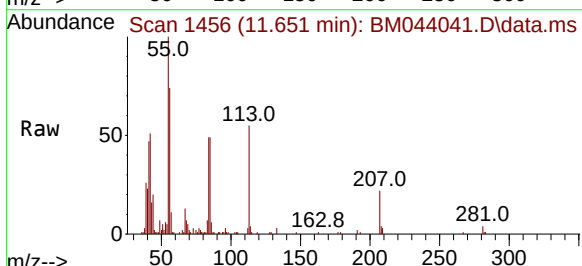
Tgt Ion:113 Resp: 33236

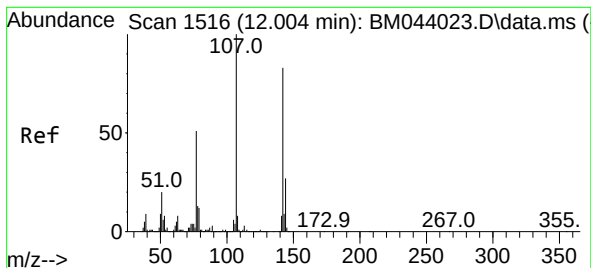
Ion Ratio Lower Upper

113 100

55 182.5 145.6 185.6

56 135.0 103.3 143.3

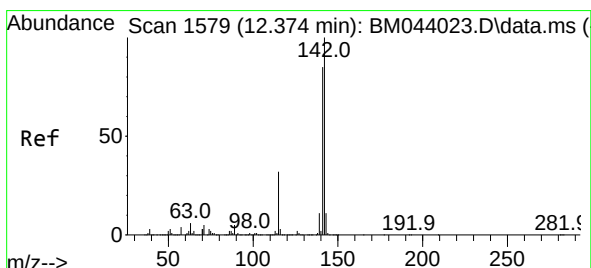
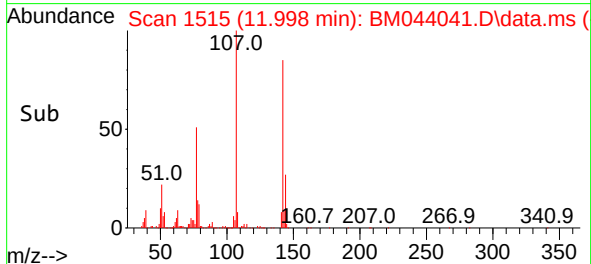
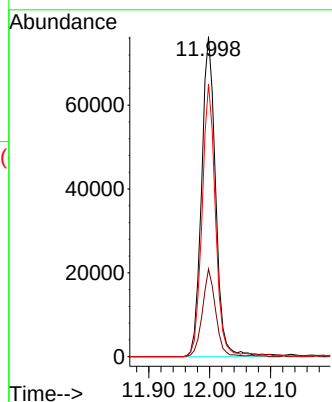
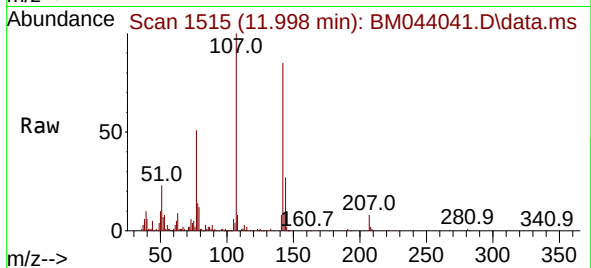




#36  
4-Chloro-3-methylphenol  
Concen: 3.505 ng  
RT: 11.998 min Scan# 1515  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

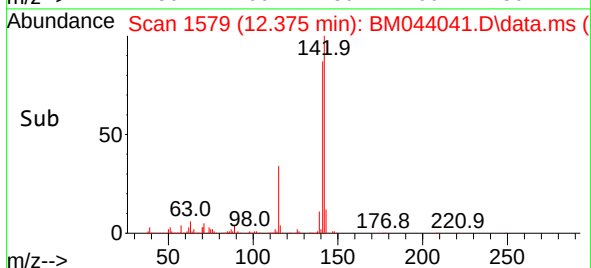
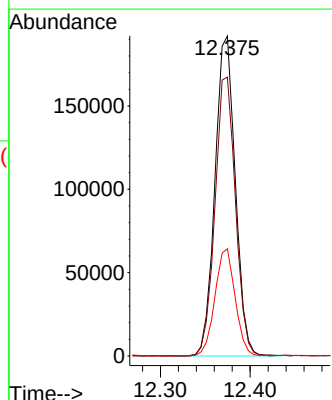
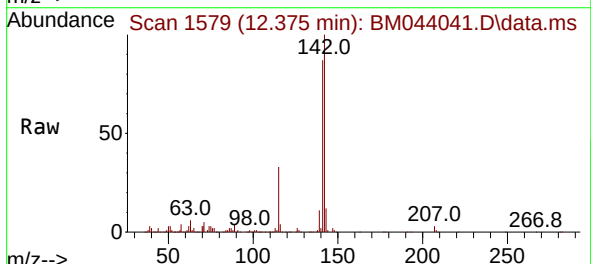
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

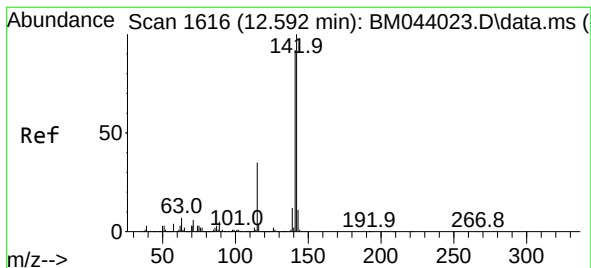
Tgt Ion:107 Resp: 123232  
Ion Ratio Lower Upper  
107 100  
144 27.4 21.3 31.9  
142 85.2 66.2 99.4



#37  
2-Methylnaphthalene  
Concen: 3.811 ng  
RT: 12.375 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:142 Resp: 302070  
Ion Ratio Lower Upper  
142 100  
141 87.2 68.3 102.5  
115 33.5 25.7 38.5





#38

1-Methylnaphthalene

Concen: 3.766 ng

RT: 12.592 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

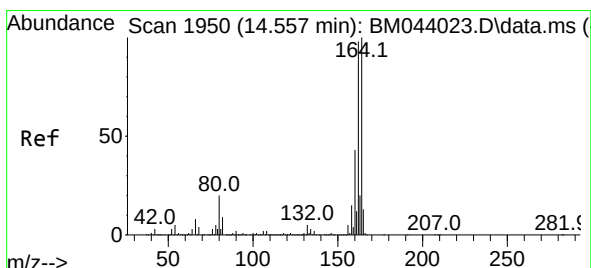
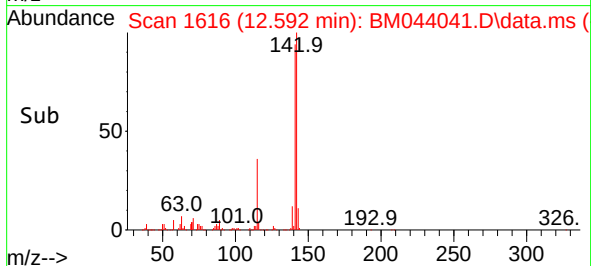
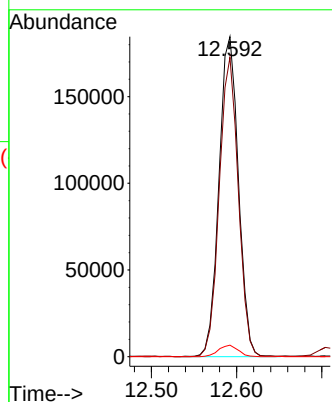
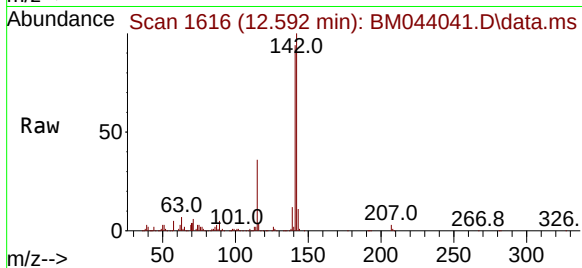
Tgt Ion:142 Resp: 293273

Ion Ratio Lower Upper

142 100

141 93.6 73.4 110.0

116 3.6 3.0 4.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.551 min Scan# 1949

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

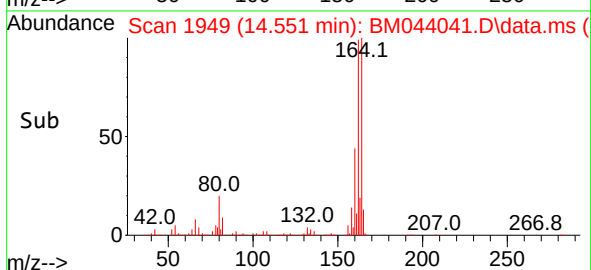
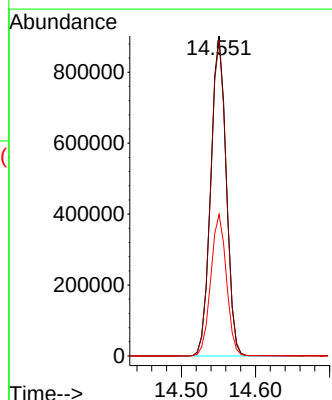
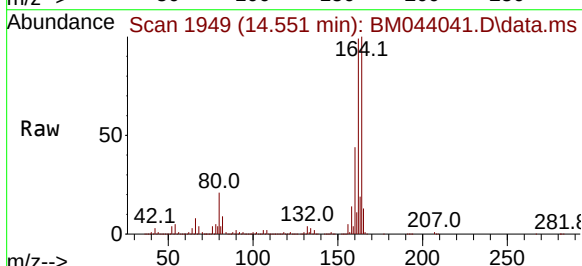
Tgt Ion:164 Resp: 1306841

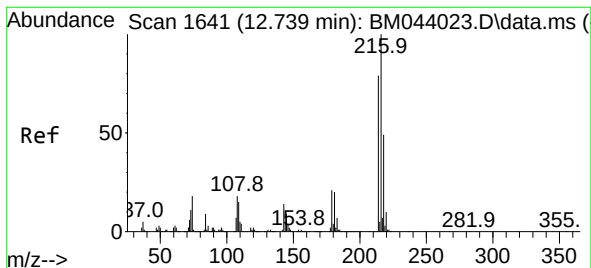
Ion Ratio Lower Upper

164 100

162 98.8 78.4 117.6

160 44.2 34.6 51.8





#40

1,2,4,5-Tetrachlorobenzene

Concen: 3.848 ng

RT: 12.733 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM044041.D

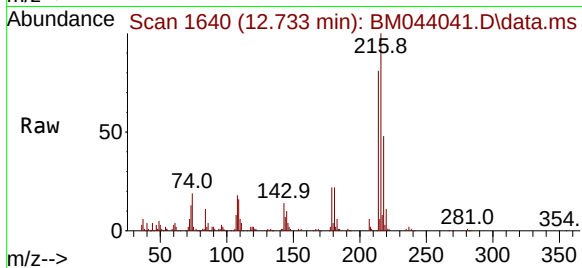
Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024



Tgt Ion:216 Resp: 146153

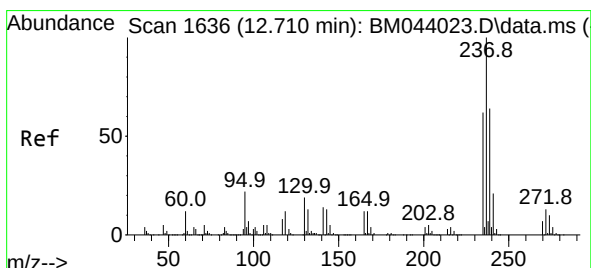
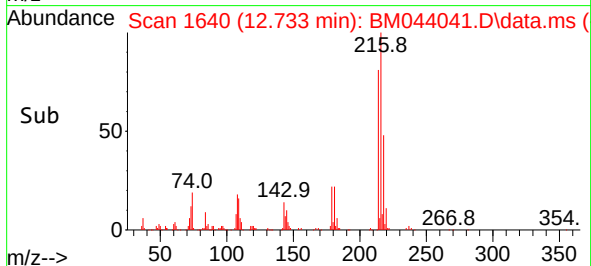
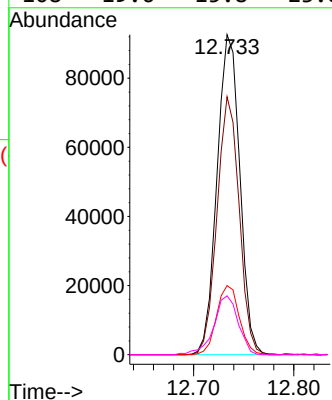
Ion Ratio Lower Upper

216 100

214 78.2 63.1 94.7

179 21.6 17.0 25.6

108 19.6 15.8 23.8



#41

Hexachlorocyclopentadiene

Concen: 3.391 ng

RT: 12.704 min Scan# 1635

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

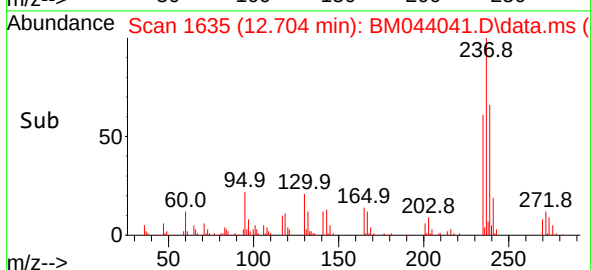
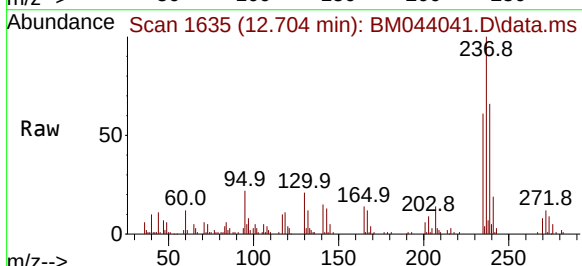
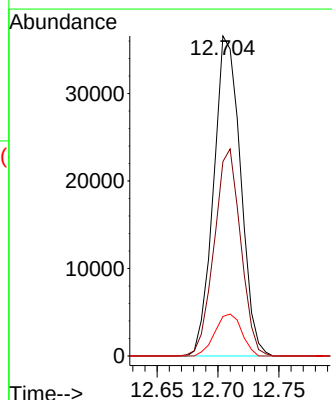
Tgt Ion:237 Resp: 56217

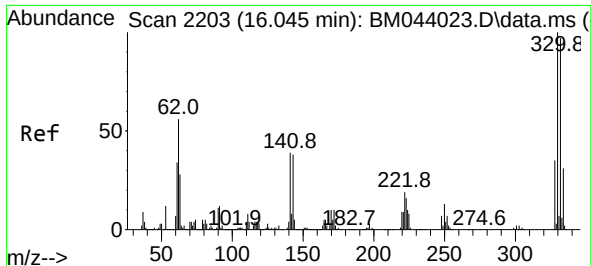
Ion Ratio Lower Upper

237 100

235 60.7 42.4 82.4

272 12.4 0.0 33.3





#42

2,4,6-Tribromophenol

Concen: 130.147 ng

RT: 16.045 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

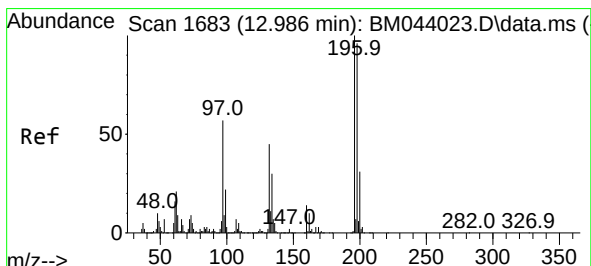
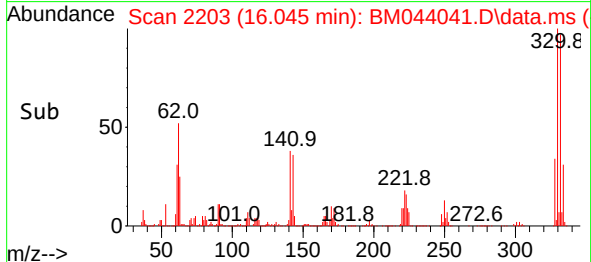
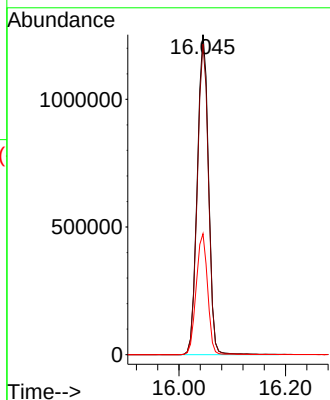
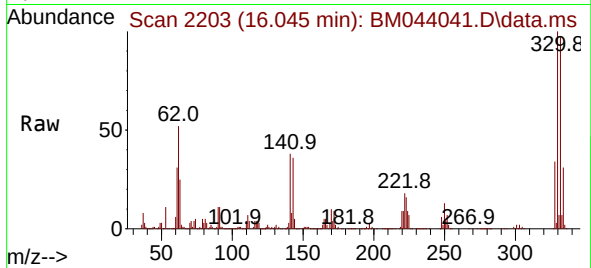
Tgt Ion:330 Resp: 1841519

Ion Ratio Lower Upper

330 100

332 96.5 77.7 116.5

141 38.3 31.0 46.4



#43

2,4,6-Trichlorophenol

Concen: 3.273 ng

RT: 12.980 min Scan# 1682

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

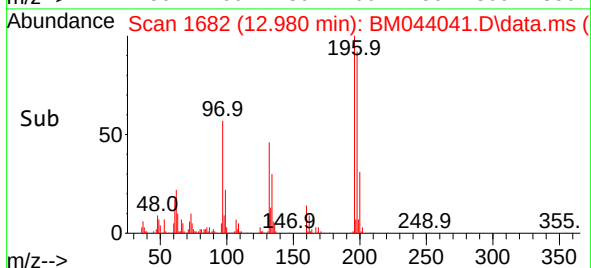
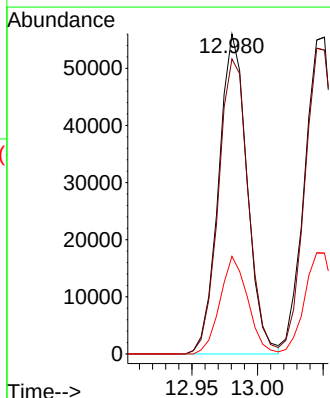
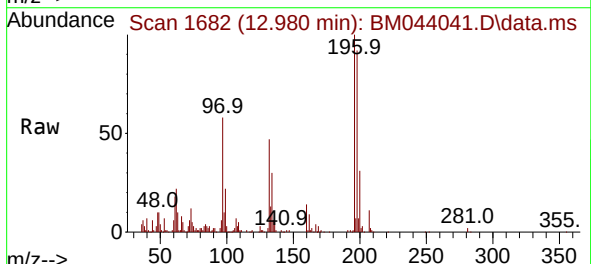
Tgt Ion:196 Resp: 84609

Ion Ratio Lower Upper

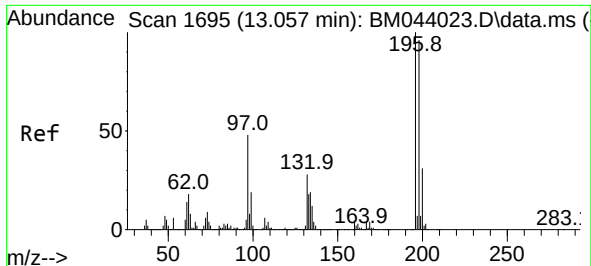
196 100

198 92.2 76.8 115.2

200 30.5 24.6 37.0



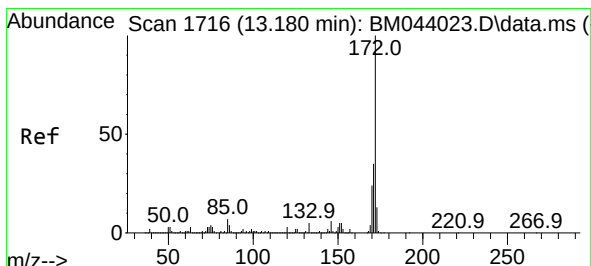
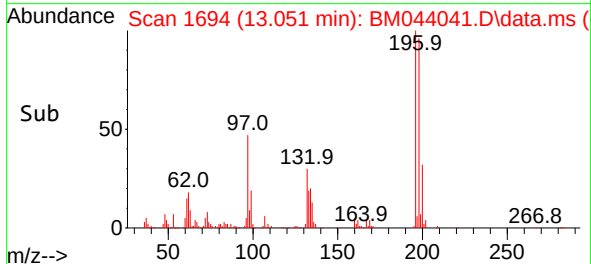
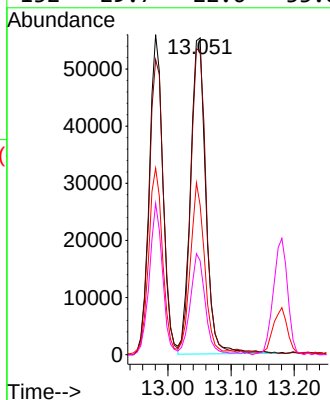
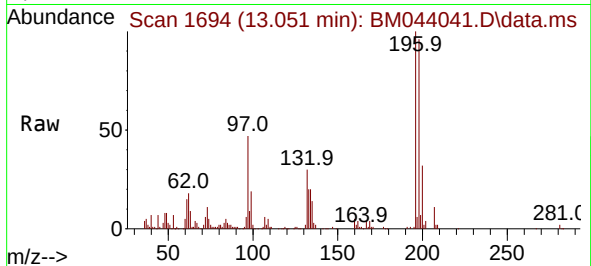




#44  
2,4,5-Trichlorophenol  
Concen: 3.293 ng  
RT: 13.051 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

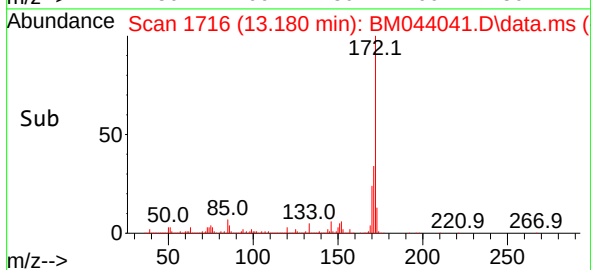
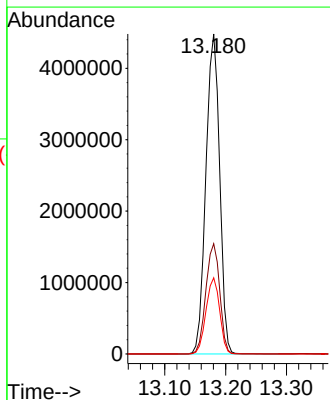
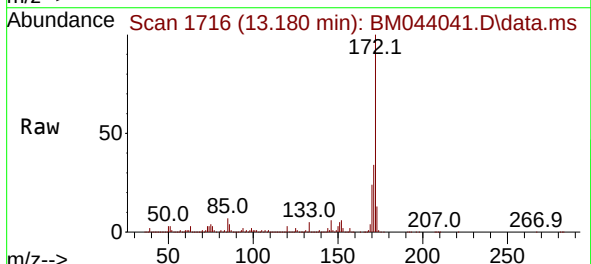
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

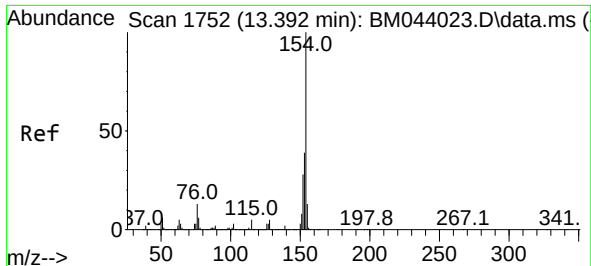
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:196 | Resp: | 93408      |
| Ion Ratio   | Lower | Upper      |
| 196         | 100   |            |
| 198         | 95.9  | 76.9 115.3 |
| 97          | 47.2  | 39.0 58.4  |
| 132         | 29.7  | 22.6 33.8  |



#45  
2-Fluorobiphenyl  
Concen: 75.911 ng  
RT: 13.180 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 7029153   |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 34.5  | 27.9 41.9 |
| 170         | 23.8  | 19.0 28.4 |

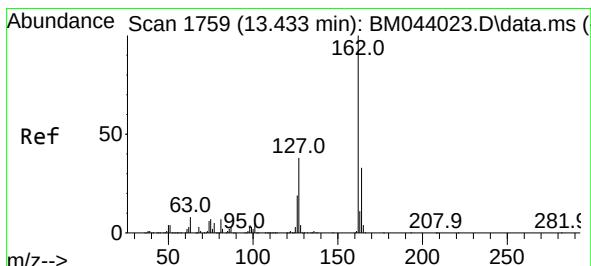
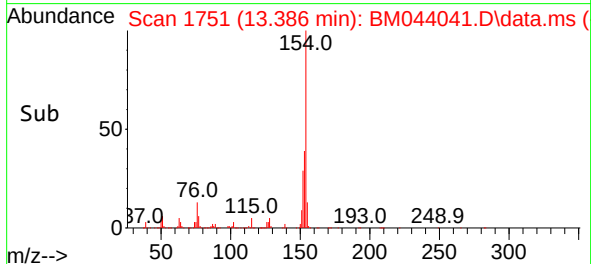
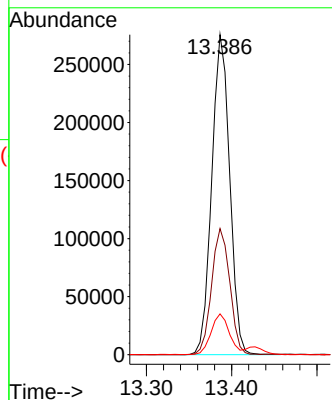
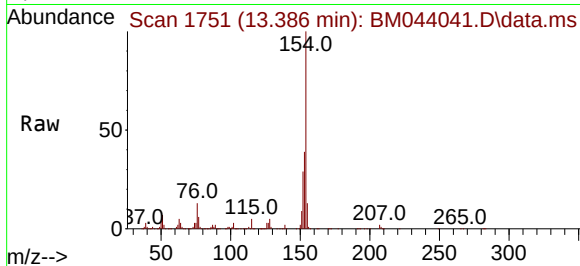




#46  
1,1'-Biphenyl  
Concen: 3.907 ng  
RT: 13.386 min Scan# 1751  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

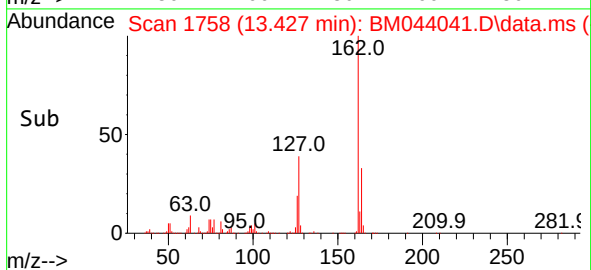
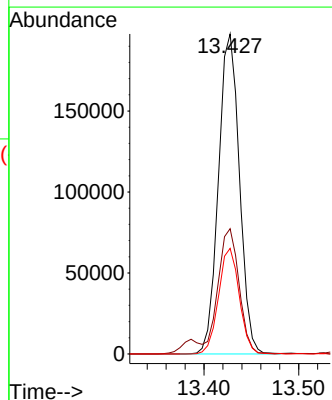
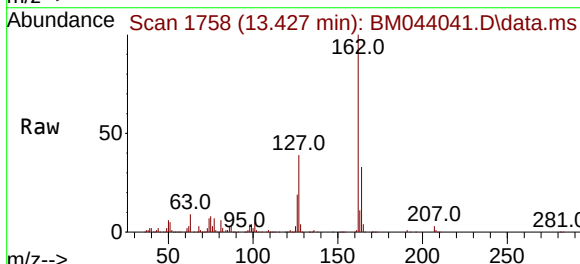
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

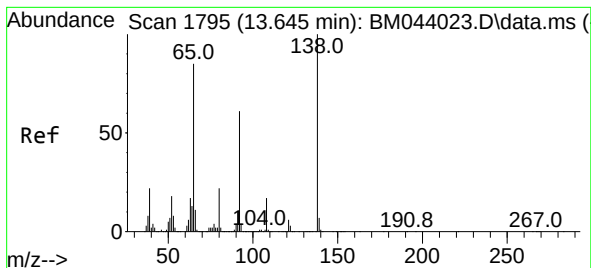
Tgt Ion:154 Resp: 402899  
Ion Ratio Lower Upper  
154 100  
153 39.4 19.4 59.4  
76 12.7 0.0 32.9



#47  
2-Chloronaphthalene  
Concen: 3.724 ng  
RT: 13.427 min Scan# 1758  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:162 Resp: 304182  
Ion Ratio Lower Upper  
162 100  
127 39.2 30.9 46.3  
164 33.0 26.4 39.6





#48

2-Nitroaniline

Concen: 3.326 ng

RT: 13.639 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM044041.D

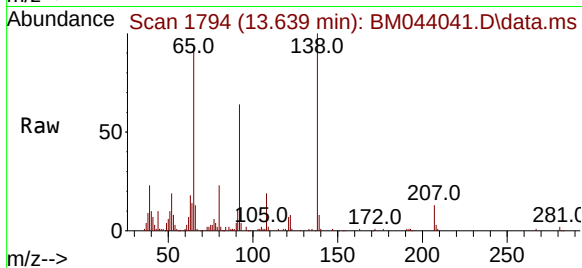
Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024



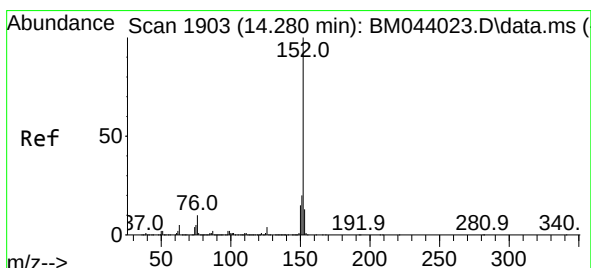
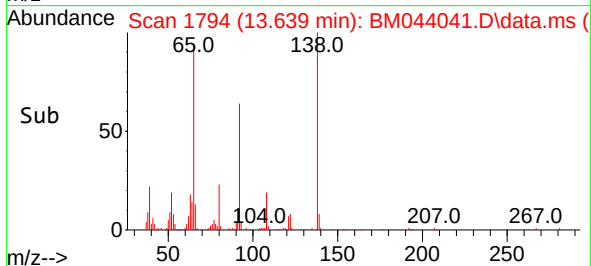
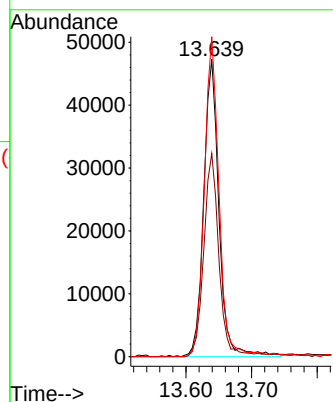
Tgt Ion: 65 Resp: 76433

Ion Ratio Lower Upper

65 100

92 68.4 58.1 87.1

138 107.6 94.6 142.0



#49

Acenaphthylene

Concen: 4.019 ng

RT: 14.274 min Scan# 1902

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

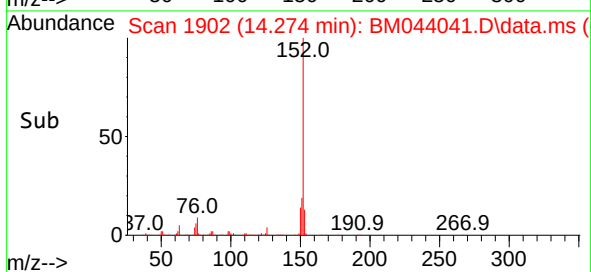
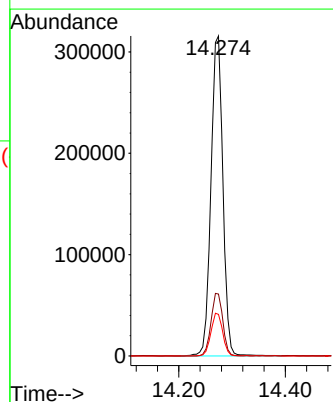
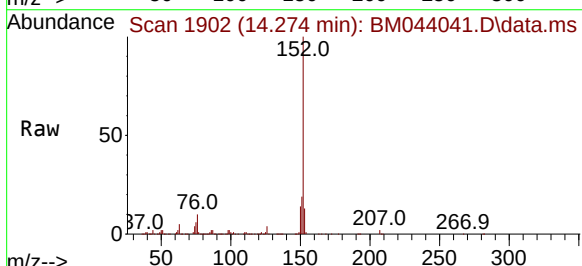
Tgt Ion:152 Resp: 489796

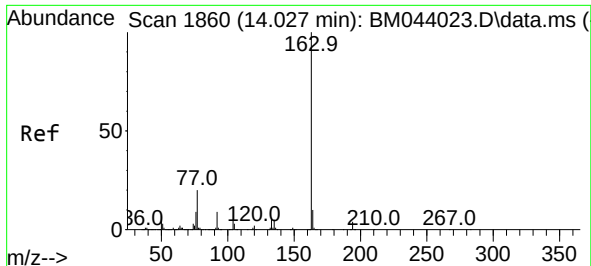
Ion Ratio Lower Upper

152 100

151 19.4 15.8 23.6

153 13.0 10.5 15.7

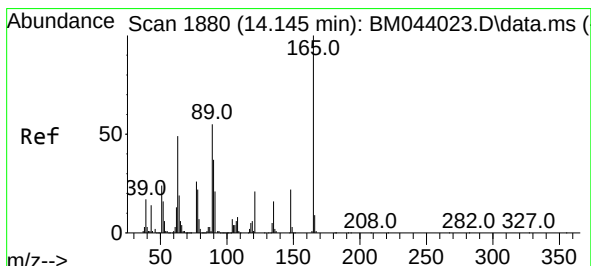
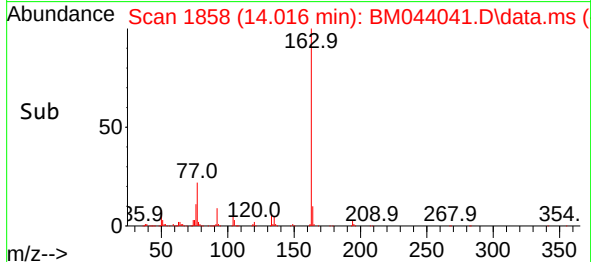
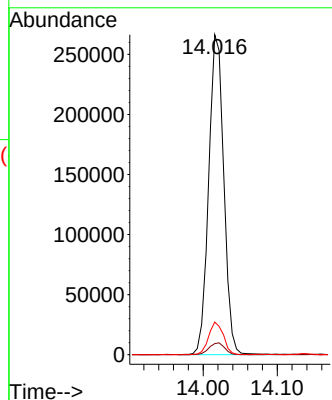
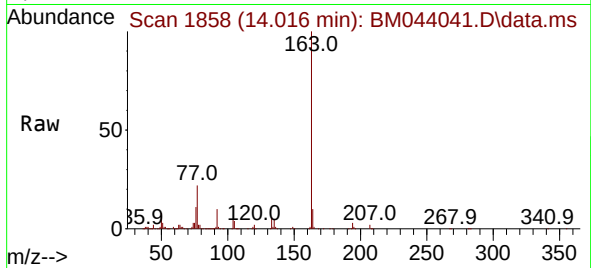




#50  
Dimethylphthalate  
Concen: 3.897 ng  
RT: 14.016 min Scan# 1858  
Delta R.T. -0.012 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

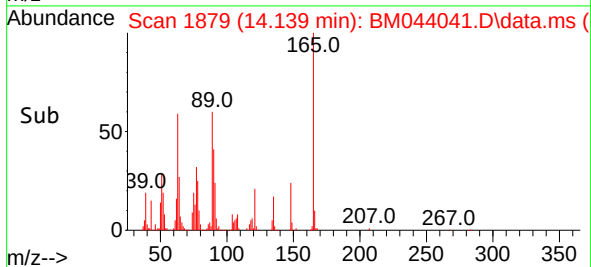
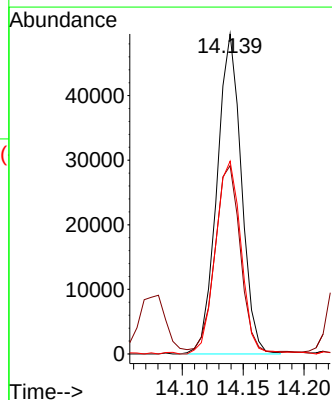
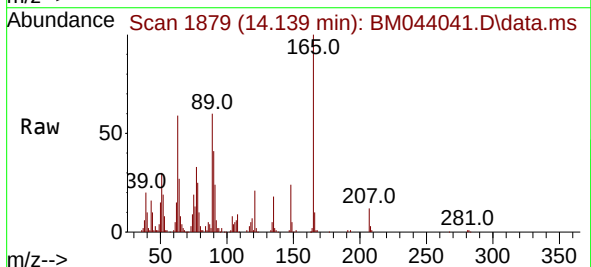
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

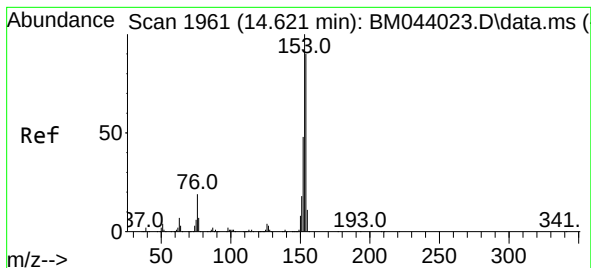
Tgt Ion:163 Resp: 377582  
Ion Ratio Lower Upper  
163 100  
194 3.4 3.1 4.7  
164 10.2 8.2 12.2



#51  
2,6-Dinitrotoluene  
Concen: 3.233 ng  
RT: 14.139 min Scan# 1879  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:165 Resp: 69111  
Ion Ratio Lower Upper  
165 100  
63 58.9 43.5 65.3  
89 60.2 44.4 66.6





#52

Acenaphthene

Concen: 3.796 ng

RT: 14.616 min Scan# 1960

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

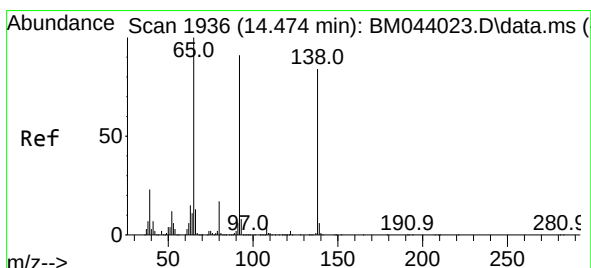
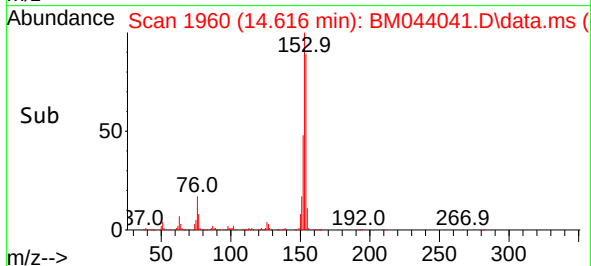
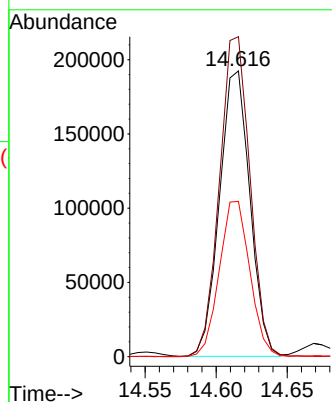
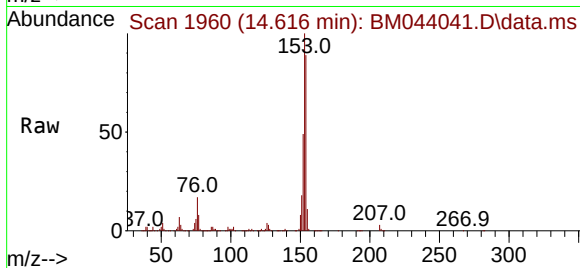
Tgt Ion:154 Resp: 286277

Ion Ratio Lower Upper

154 100

153 112.0 89.3 133.9

152 54.3 43.0 64.6



#53

3-Nitroaniline

Concen: 3.156 ng

RT: 14.469 min Scan# 1935

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

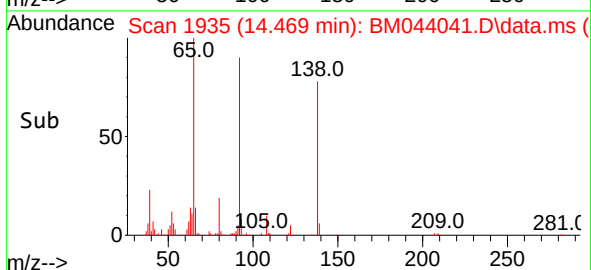
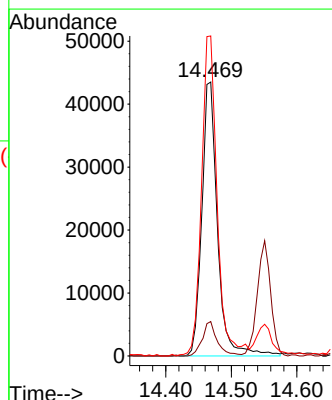
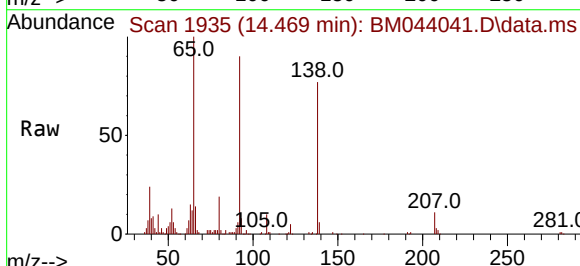
Tgt Ion:138 Resp: 72498

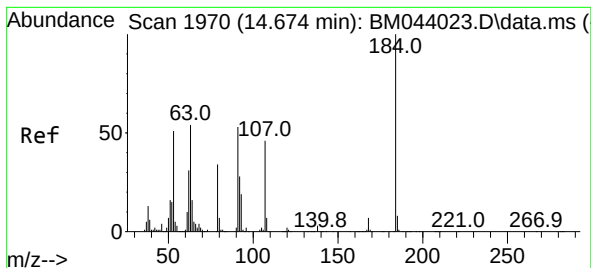
Ion Ratio Lower Upper

138 100

108 12.6 7.6 11.4#

92 116.8 86.5 129.7

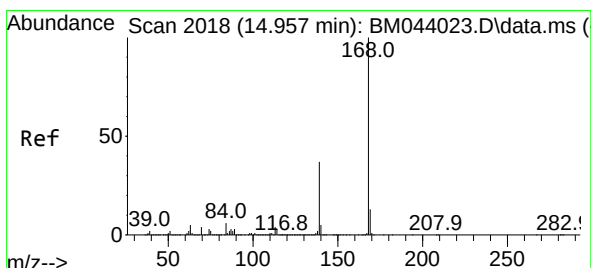
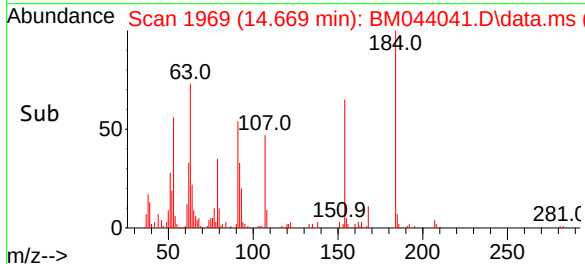
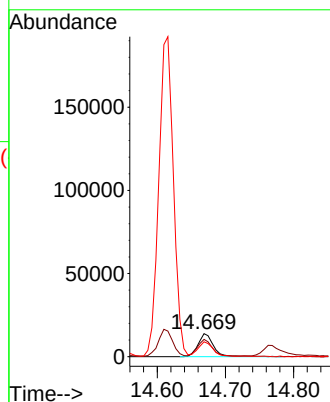
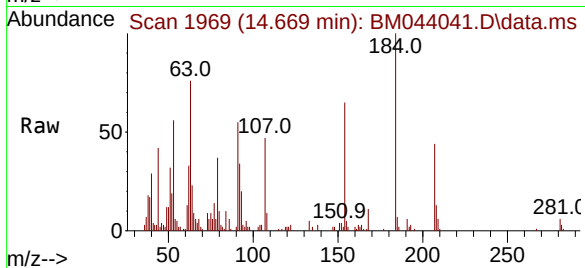




#54  
2,4-Dinitrophenol  
Concen: 7.158 ng  
RT: 14.669 min Scan# 1970  
Delta R.T. -0.005 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

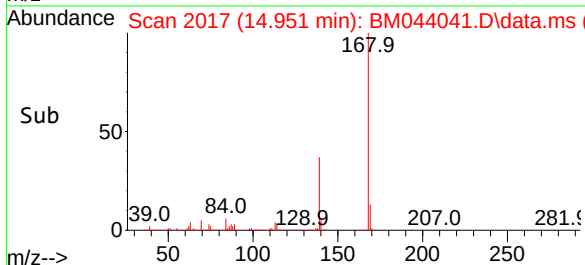
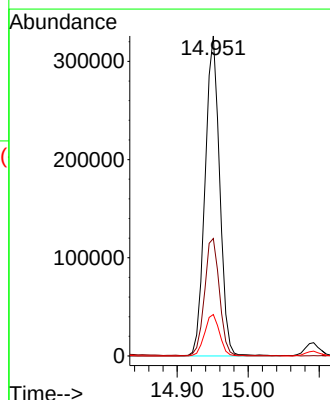
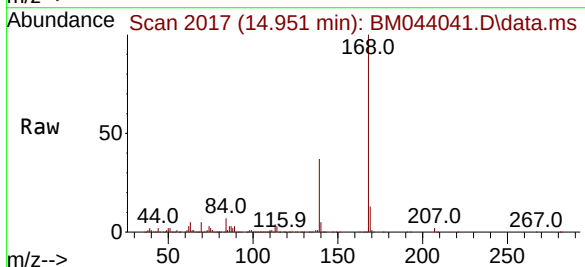
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

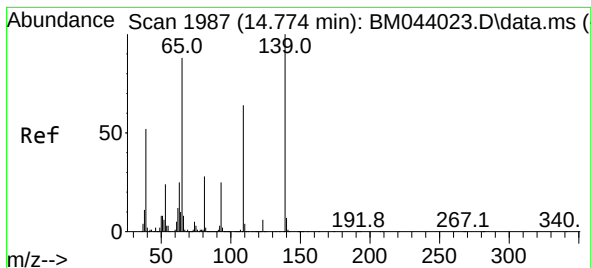
Tgt Ion:184 Resp: 21665  
Ion Ratio Lower Upper  
184 100  
63 75.5 55.4 83.2  
154 65.0 49.2 73.8



#55  
Dibenzofuran  
Concen: 4.001 ng  
RT: 14.951 min Scan# 2017  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:168 Resp: 467075  
Ion Ratio Lower Upper  
168 100  
139 36.7 29.6 44.4  
169 12.9 10.5 15.7

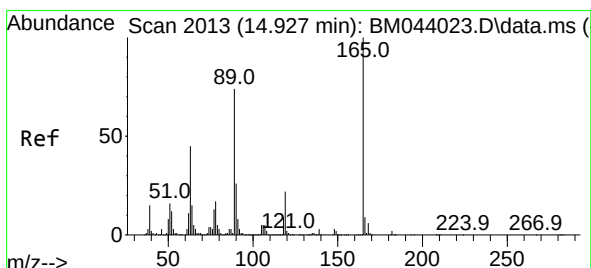
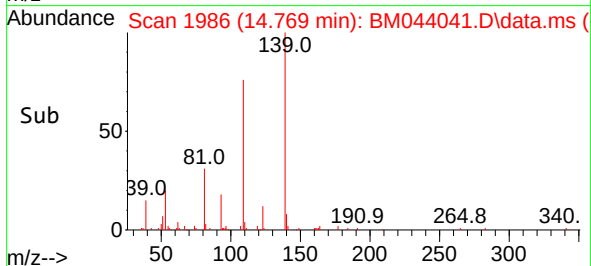
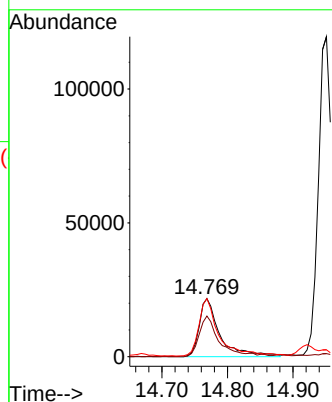
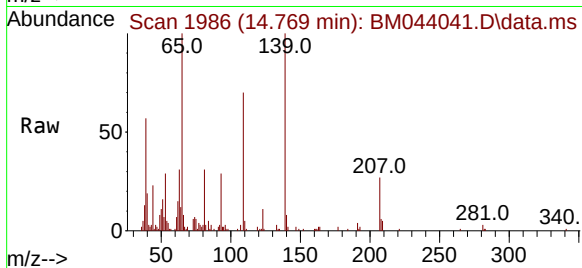




#56  
4-Nitrophenol  
Concen: 2.552 ng  
RT: 14.769 min Scan# 1986  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

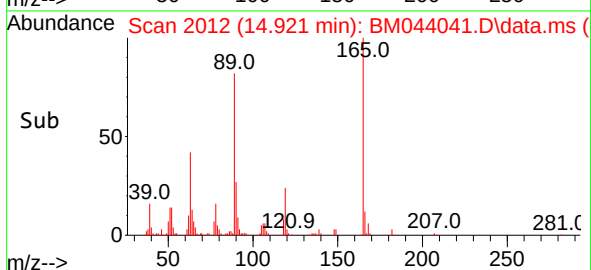
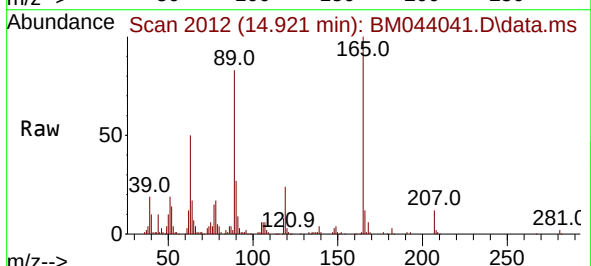
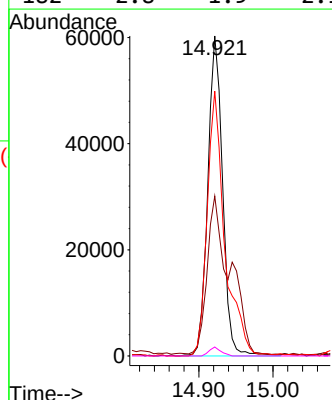
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

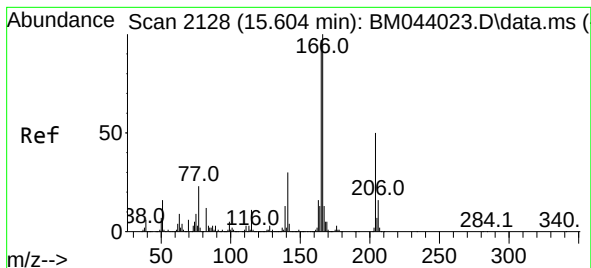
Tgt Ion:139 Resp: 47666  
Ion Ratio Lower Upper  
139 100  
109 69.9 43.8 83.8  
65 99.9 67.7 107.7



#57  
2,4-Dinitrotoluene  
Concen: 2.999 ng  
RT: 14.921 min Scan# 2012  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:165 Resp: 83801  
Ion Ratio Lower Upper  
165 100  
63 50.0 35.9 53.9  
89 82.8 58.9 88.3  
182 2.8 1.9 2.9





#58

Fluorene

Concen: 4.005 ng

RT: 15.598 min Scan# 2128

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

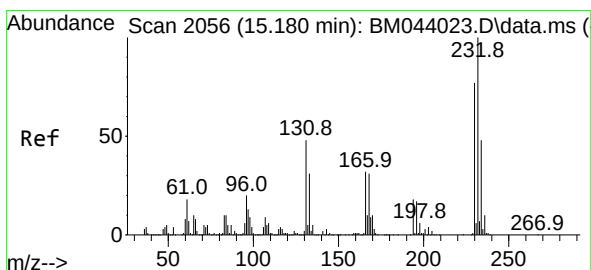
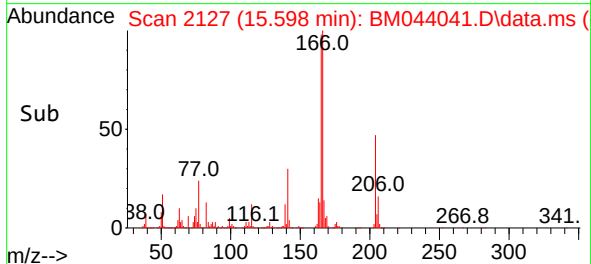
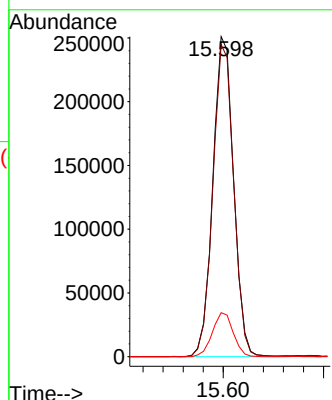
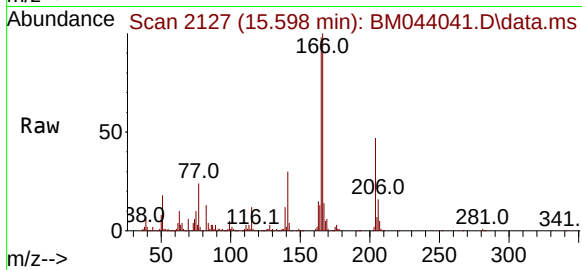
Tgt Ion:166 Resp: 361300

Ion Ratio Lower Upper

166 100

165 97.6 77.7 116.5

167 13.7 10.7 16.1



#59

2,3,4,6-Tetrachlorophenol

Concen: 3.530 ng

RT: 15.174 min Scan# 2055

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Tgt Ion:232 Resp: 78582

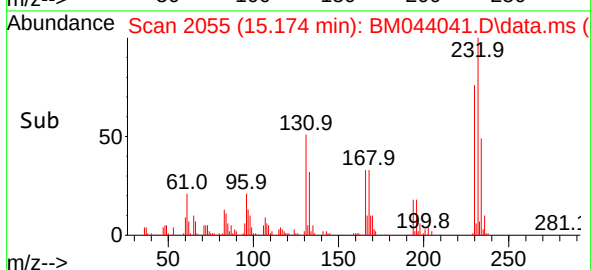
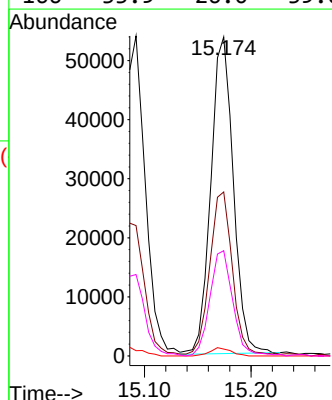
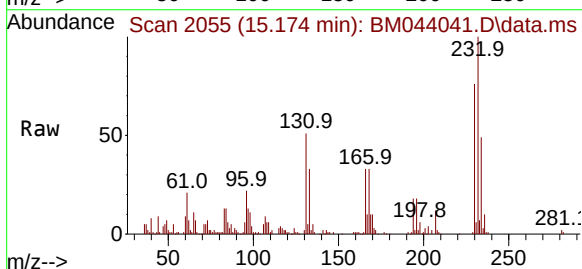
Ion Ratio Lower Upper

232 100

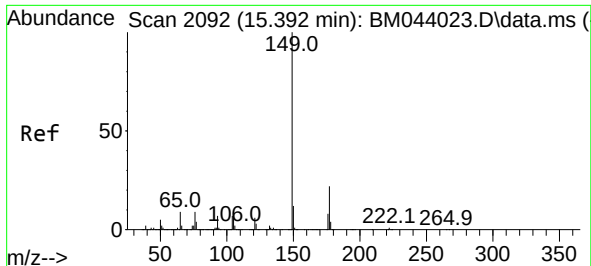
131 53.5 39.5 59.3

130 2.4 2.0 3.0

166 33.9 26.0 39.0



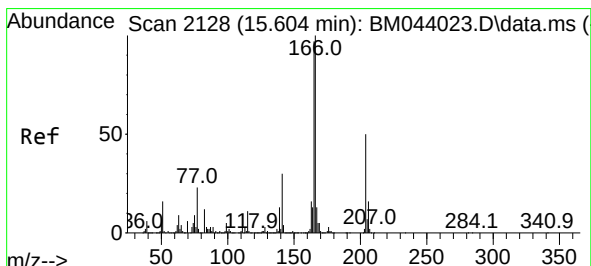
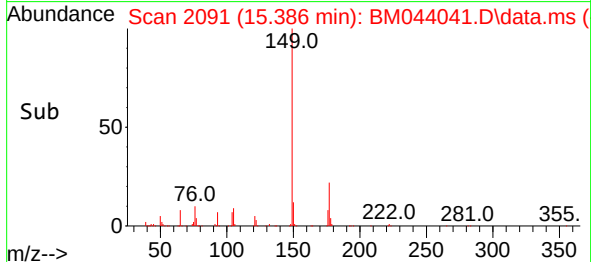
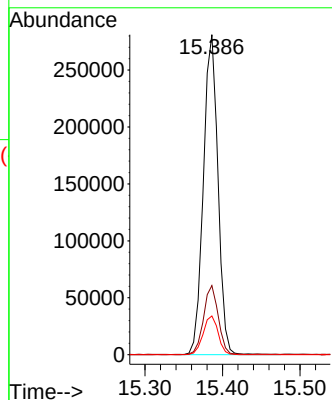
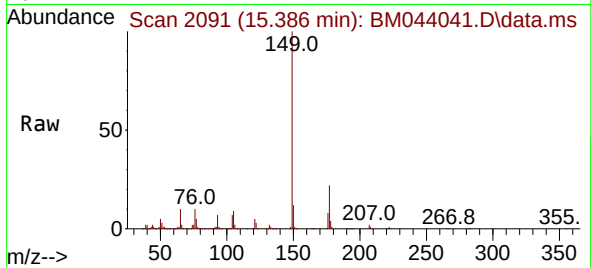




#60  
Diethylphthalate  
Concen: 3.666 ng  
RT: 15.386 min Scan# 2091  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

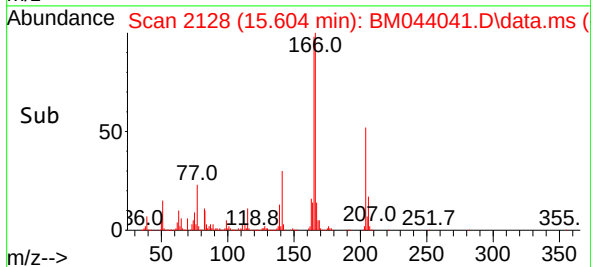
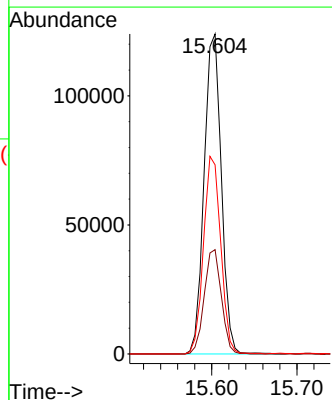
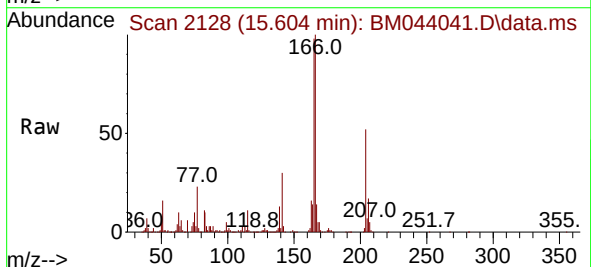
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

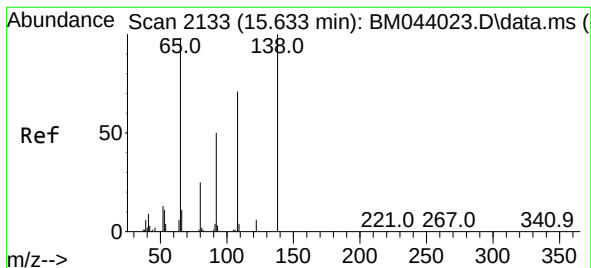
Tgt Ion:149 Resp: 367065  
Ion Ratio Lower Upper  
149 100  
177 21.6 17.5 26.3  
150 12.1 9.8 14.6



#61  
4-Chlorophenyl-phenylether  
Concen: 3.976 ng  
RT: 15.604 min Scan# 2128  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:204 Resp: 173799  
Ion Ratio Lower Upper  
204 100  
206 32.6 26.3 39.5  
141 59.1 47.7 71.5

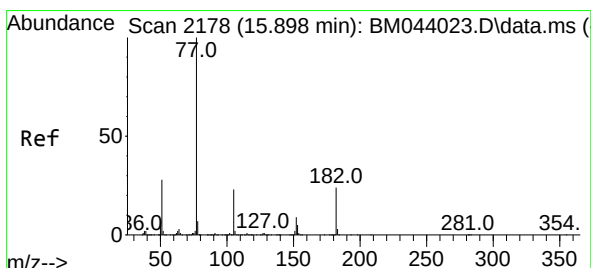
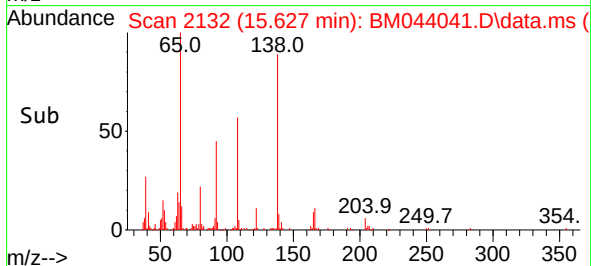
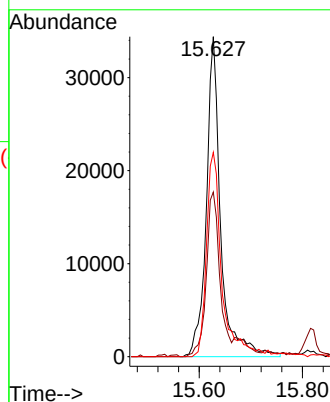
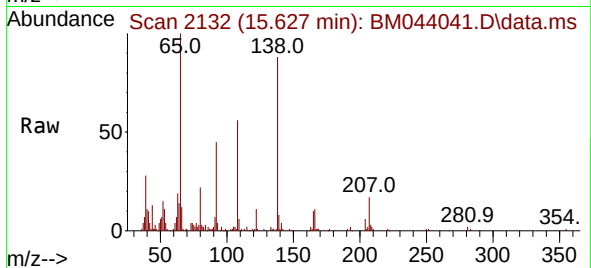




#62  
4-Nitroaniline  
Concen: 2.870 ng  
RT: 15.627 min Scan# 2132  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

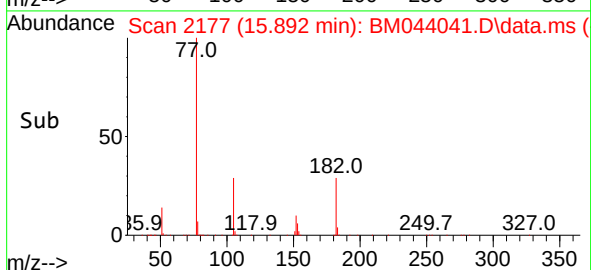
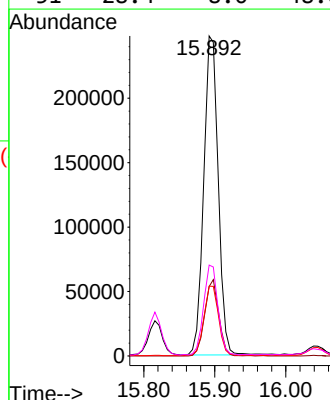
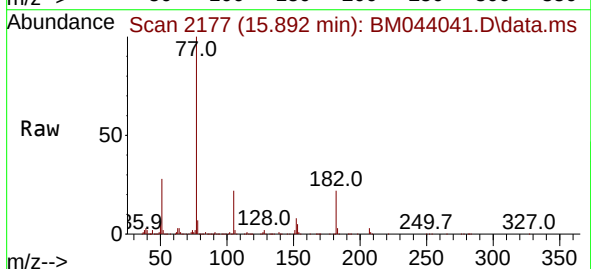
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

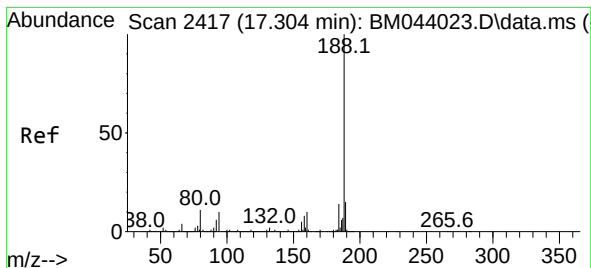
Tgt Ion:138 Resp: 66370  
Ion Ratio Lower Upper  
138 100  
92 51.4 29.6 69.6  
108 63.9 47.8 87.8



#63  
Azobenzene  
Concen: 3.750 ng  
RT: 15.892 min Scan# 2177  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion: 77 Resp: 352340  
Ion Ratio Lower Upper  
77 100  
182 21.7 4.0 44.0  
105 21.8 3.3 43.3  
51 28.4 8.0 48.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.304 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

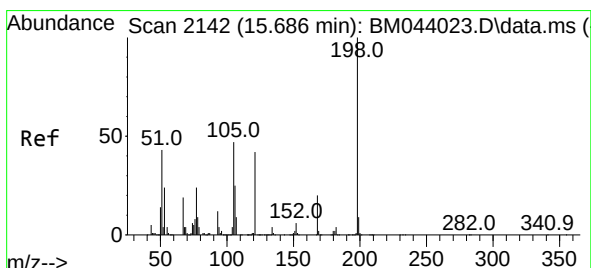
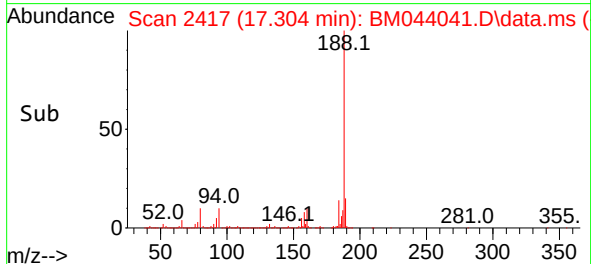
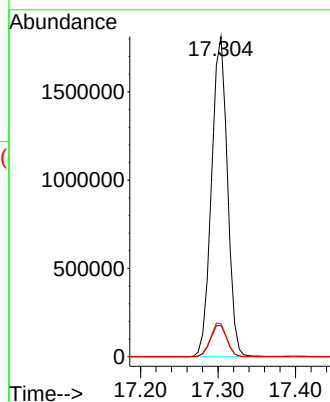
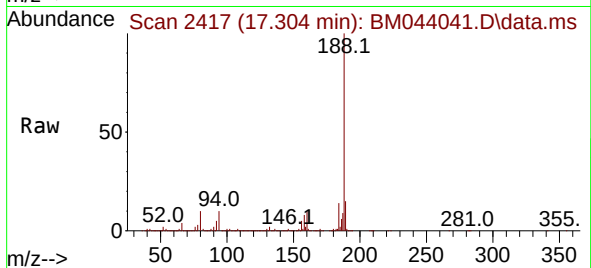
Tgt Ion:188 Resp: 2582351

Ion Ratio Lower Upper

188 100

94 9.7 8.2 12.2

80 10.3 8.8 13.2



#65

4,6-Dinitro-2-methylphenol

Concen: 2.222 ng

RT: 15.680 min Scan# 2141

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

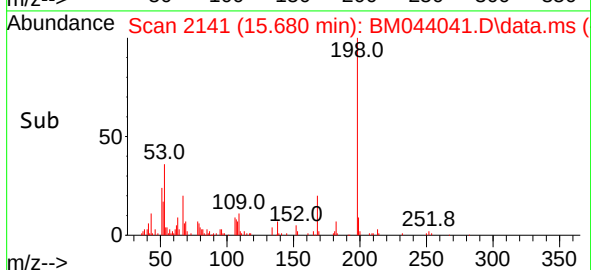
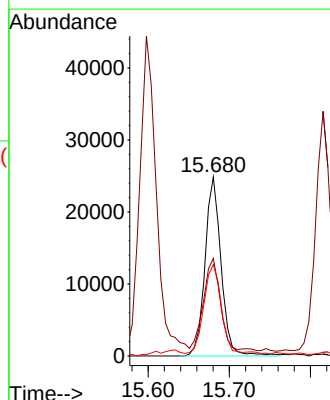
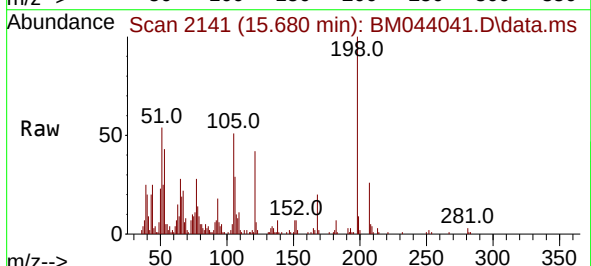
Tgt Ion:198 Resp: 34198

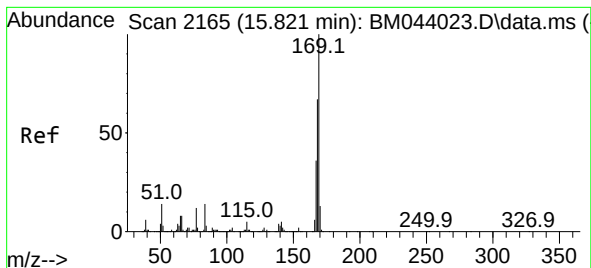
Ion Ratio Lower Upper

198 100

51 54.4 29.9 69.9

105 51.0 28.7 68.7





#66

n-Nitrosodiphenylamine

Concen: 3.824 ng

RT: 15.816 min Scan# 2164

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

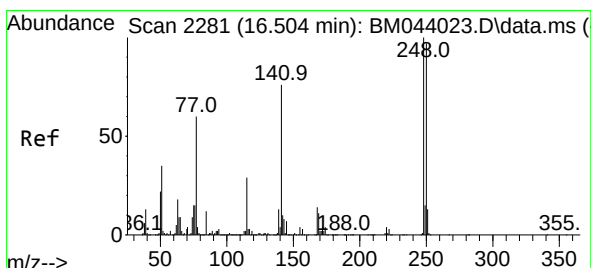
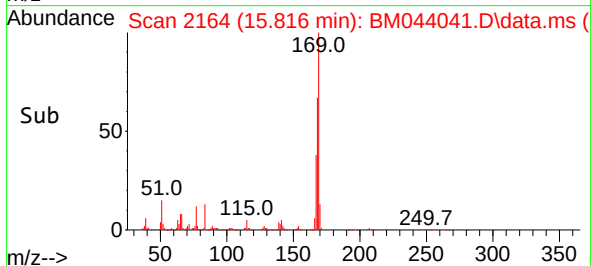
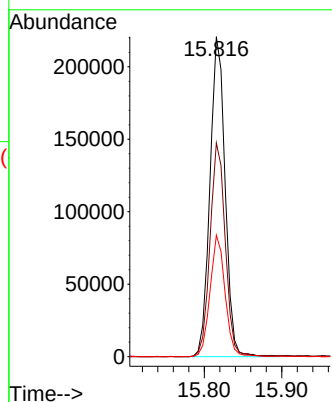
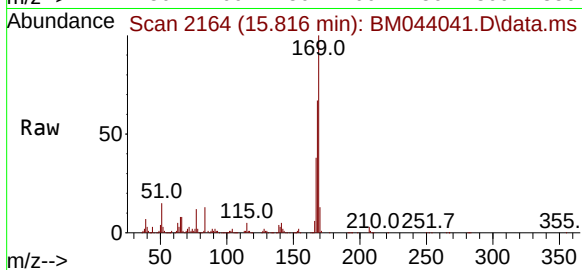
Tgt Ion:169 Resp: 300029

Ion Ratio Lower Upper

169 100

168 66.8 53.8 80.8

167 38.0 29.2 43.8



#67

4-Bromophenyl-phenylether

Concen: 3.230 ng

RT: 16.498 min Scan# 2280

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

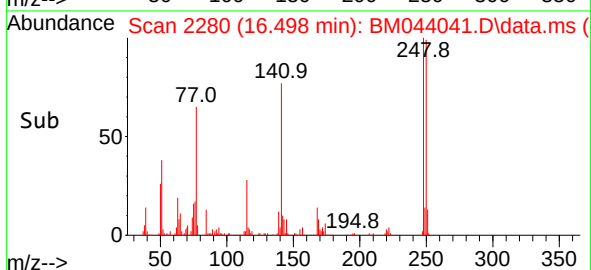
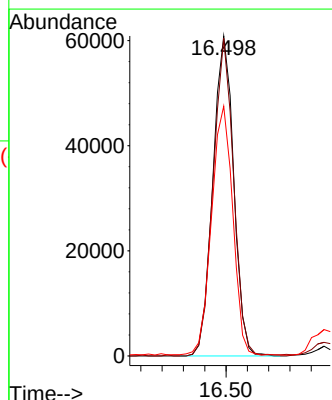
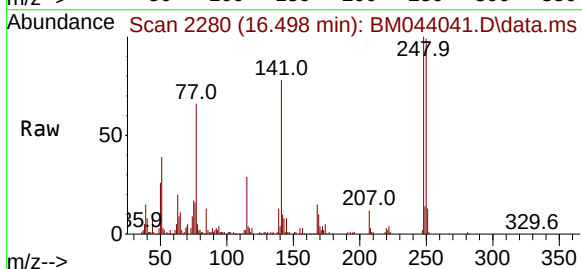
Tgt Ion:248 Resp: 82465

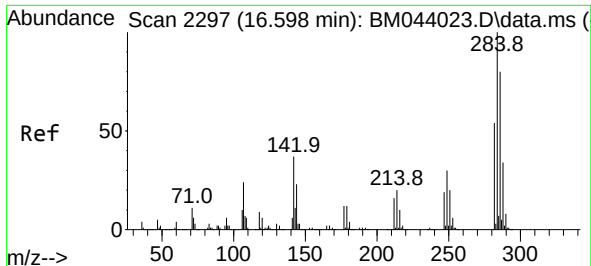
Ion Ratio Lower Upper

248 100

250 99.3 77.4 116.2

141 78.0 61.0 91.6

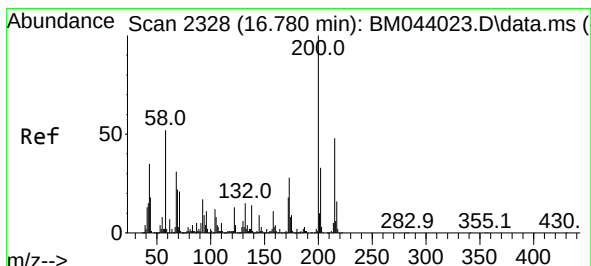
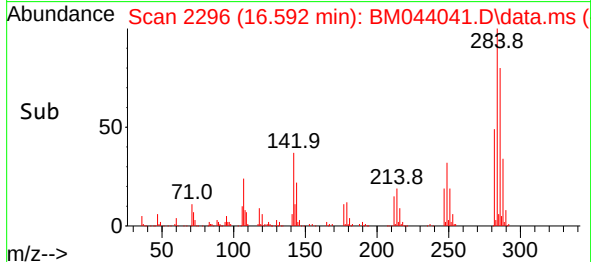
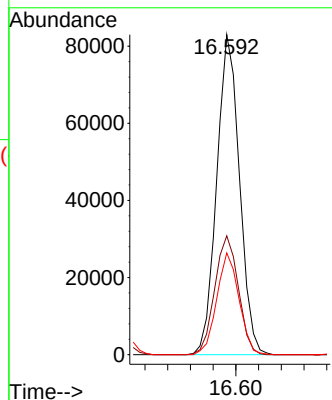
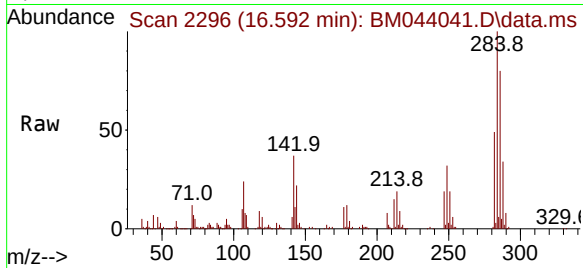




#68  
Hexachlorobenzene  
Concen: 3.690 ng  
RT: 16.592 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

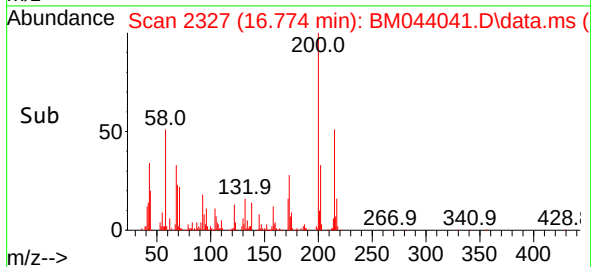
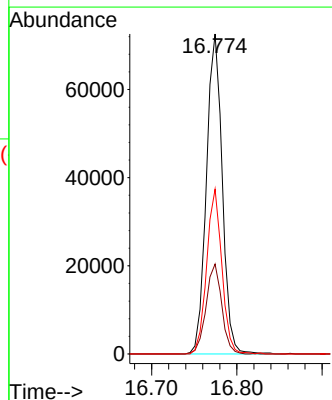
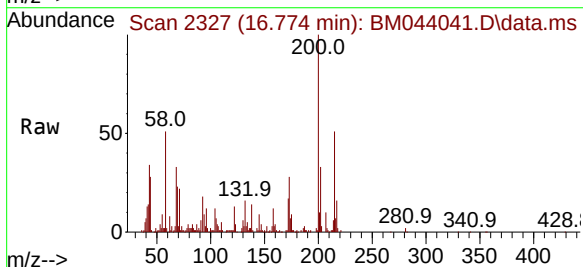
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

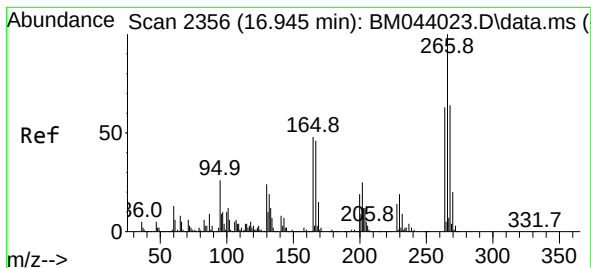
Tgt Ion:284 Resp: 115413  
Ion Ratio Lower Upper  
284 100  
142 37.1 30.0 45.0  
249 31.8 24.1 36.1



#69  
Atrazine  
Concen: 4.418 ng  
RT: 16.774 min Scan# 2327  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:200 Resp: 93853  
Ion Ratio Lower Upper  
200 100  
173 28.1 7.9 47.9  
215 51.5 27.9 67.9





#70

Pentachlorophenol

Concen: 2.550 ng

RT: 16.945 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

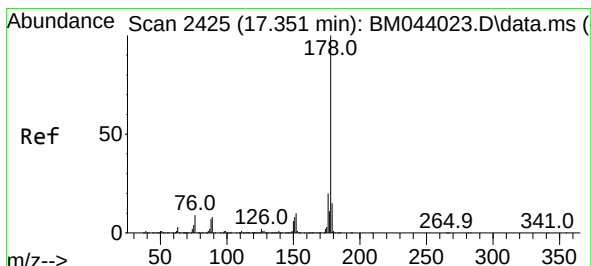
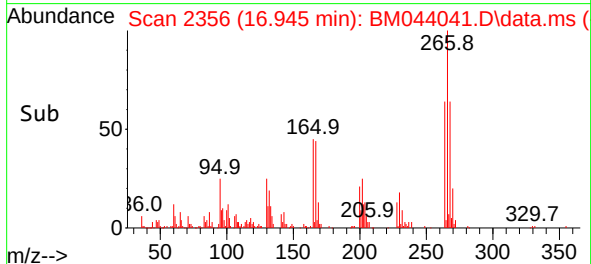
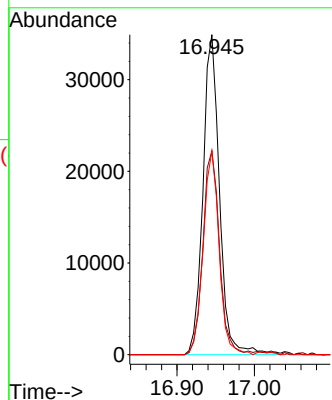
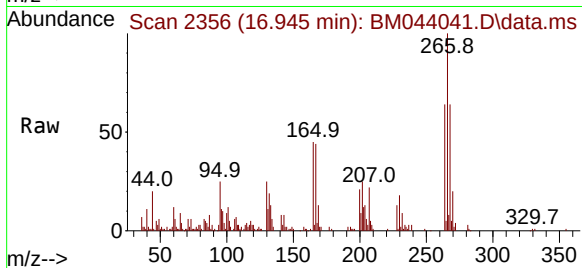
Tgt Ion:266 Resp: 51890

Ion Ratio Lower Upper

266 100

268 63.6 51.1 76.7

264 63.6 50.5 75.7



#71

Phenanthrene

Concen: 4.041 ng

RT: 17.345 min Scan# 2424

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

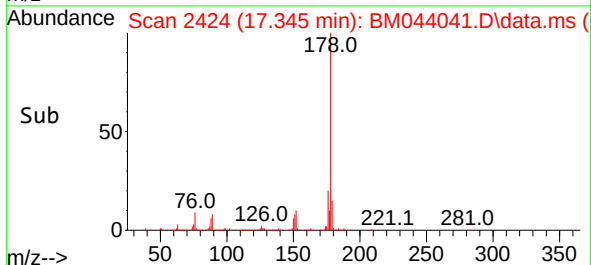
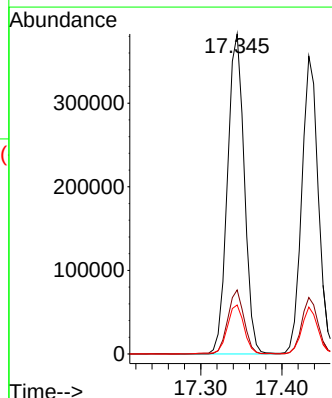
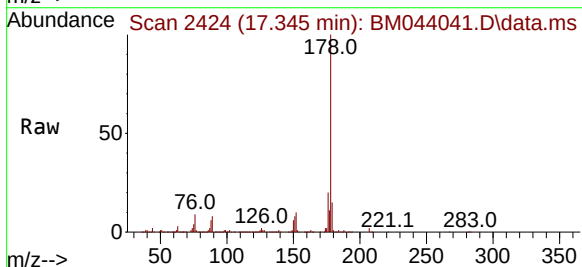
Tgt Ion:178 Resp: 551065

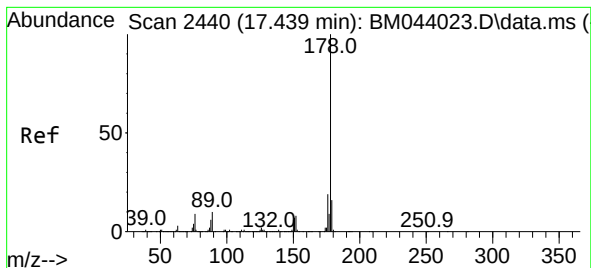
Ion Ratio Lower Upper

178 100

176 20.0 15.6 23.4

179 15.3 12.2 18.4





#72

Anthracene

Concen: 3.768 ng

RT: 17.433 min Scan# 2440

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

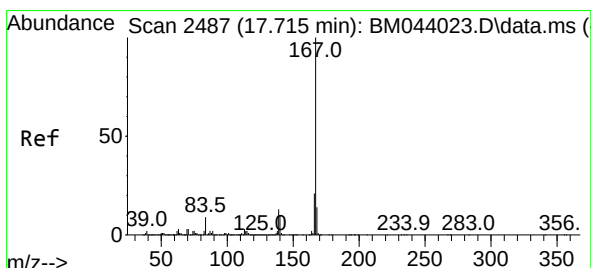
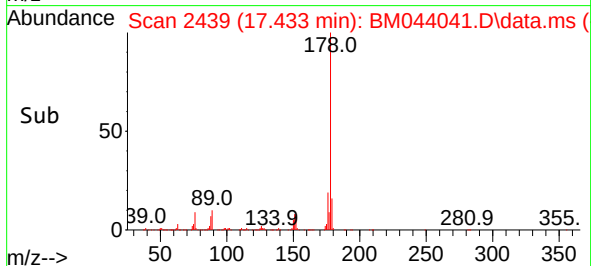
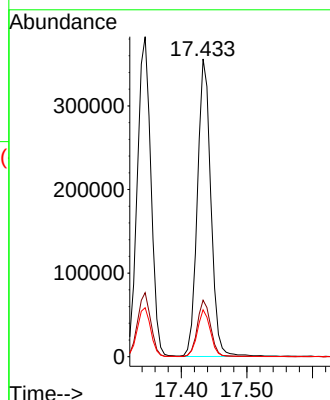
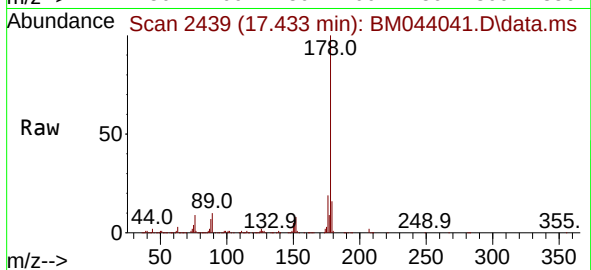
Tgt Ion:178 Resp: 508751

Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

179 15.7 12.4 18.6



#73

Carbazole

Concen: 3.572 ng

RT: 17.710 min Scan# 2486

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

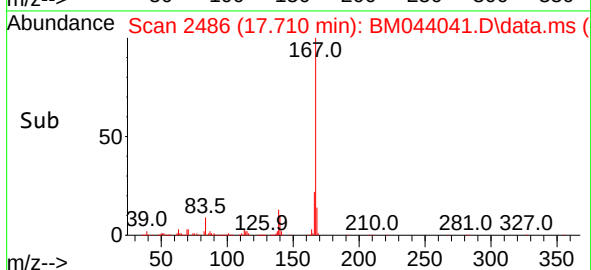
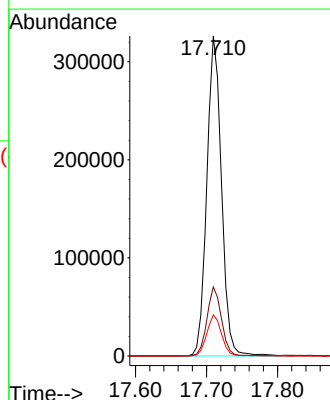
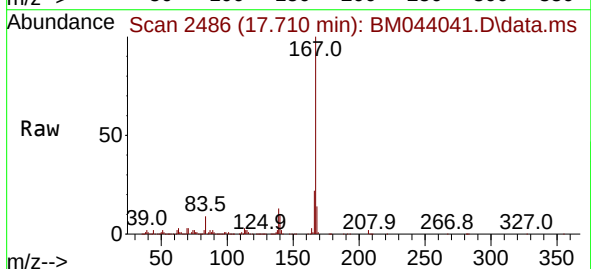
Tgt Ion:167 Resp: 468911

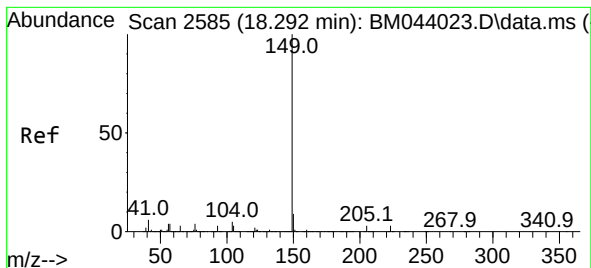
Ion Ratio Lower Upper

167 100

166 21.6 16.8 25.2

139 12.8 10.4 15.6





#74

Di-n-butylphthalate

Concen: 3.334 ng

RT: 18.292 min Scan# 2

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

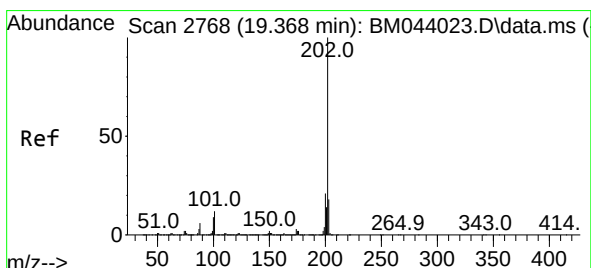
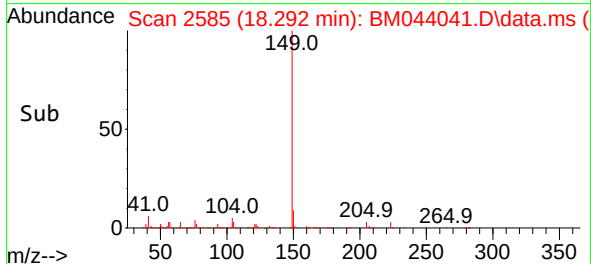
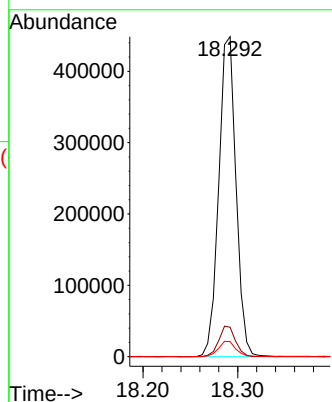
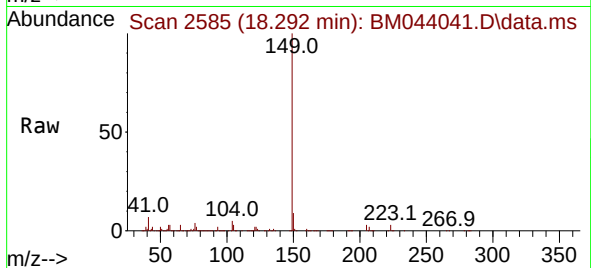
Tgt Ion:149 Resp: 568979

Ion Ratio Lower Upper

149 100

150 9.2 7.4 11.2

104 4.7 3.8 5.6



#75

Fluoranthene

Concen: 3.578 ng

RT: 19.362 min Scan# 2767

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

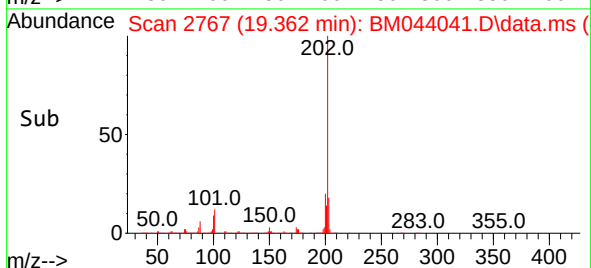
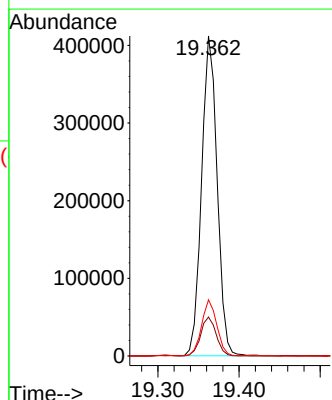
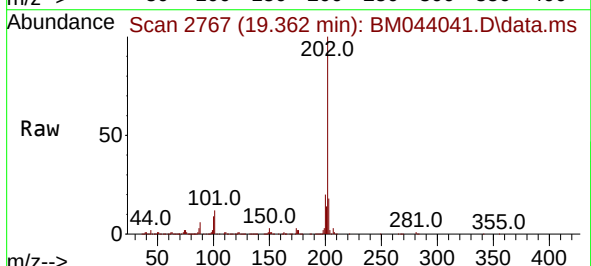
Tgt Ion:202 Resp: 548010

Ion Ratio Lower Upper

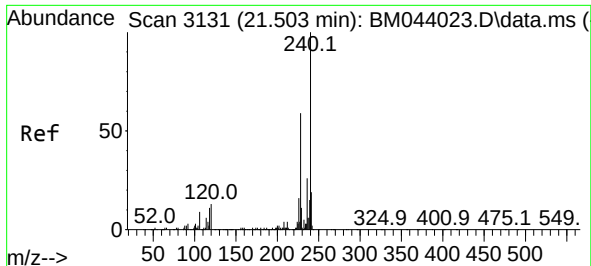
202 100

101 12.1 0.0 32.4

203 17.6 0.0 37.8



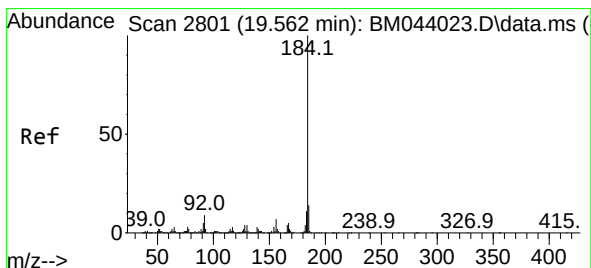
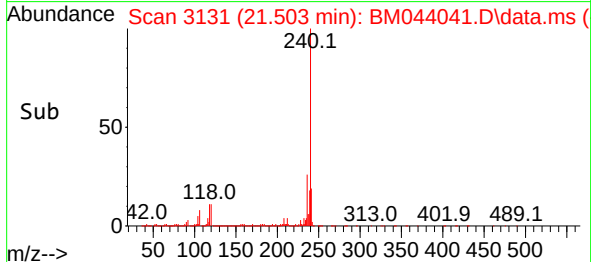
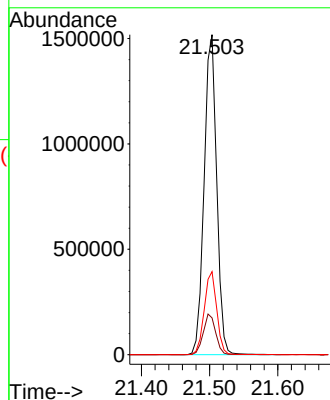
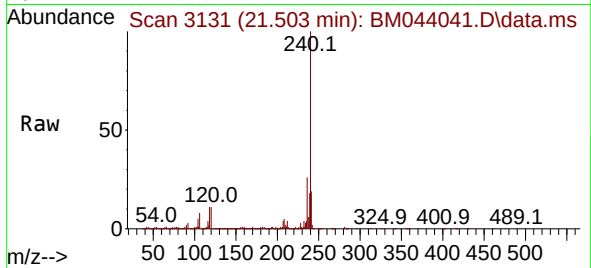




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.503 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

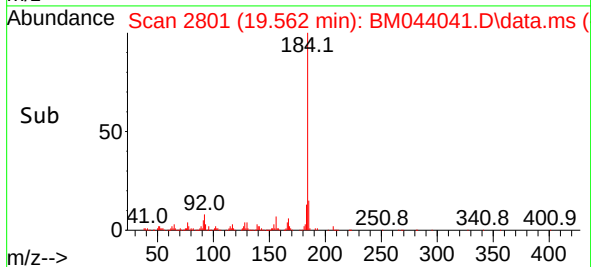
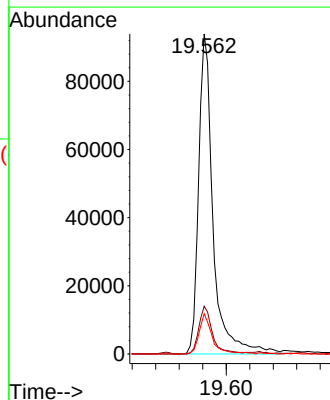
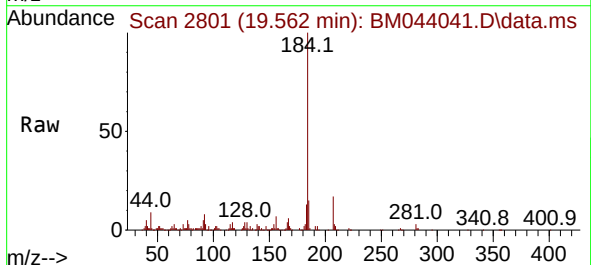
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

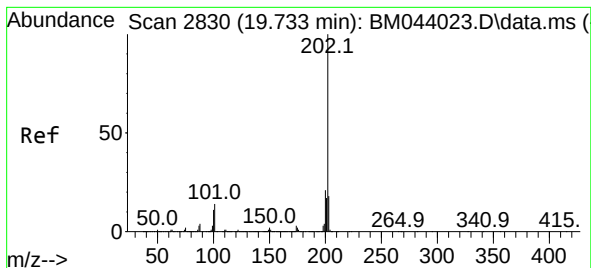
Tgt Ion:240 Resp: 1945178  
Ion Ratio Lower Upper  
240 100  
120 11.5 10.1 15.1  
236 26.0 20.6 31.0



#77  
Benzidine  
Concen: 5.301 ng  
RT: 19.562 min Scan# 2801  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:184 Resp: 160246  
Ion Ratio Lower Upper  
184 100  
185 14.9 11.0 16.6  
183 12.6 9.0 13.4





#78

Pyrene

Concen: 3.803 ng

RT: 19.727 min Scan# 2829

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

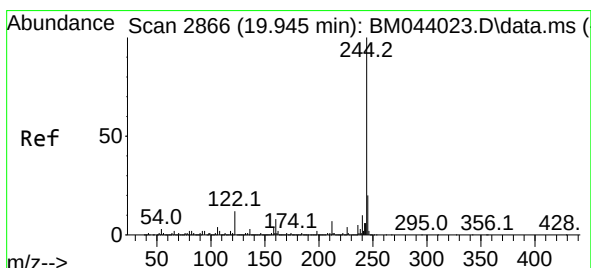
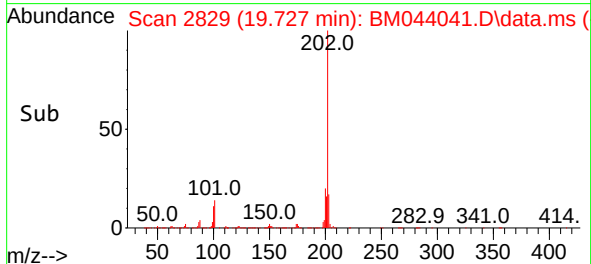
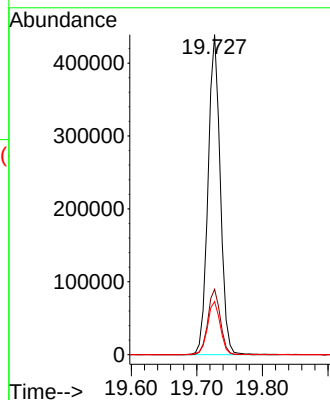
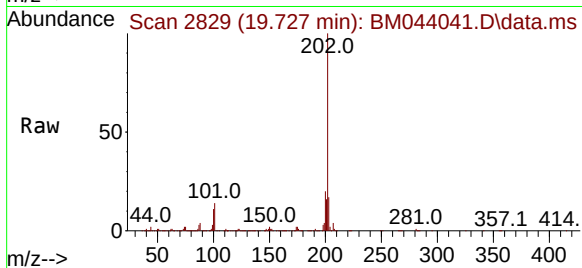
Tgt Ion:202 Resp: 569721

Ion Ratio Lower Upper

202 100

200 20.5 16.8 25.2

203 16.6 14.0 21.0



#79

Terphenyl-d14

Concen: 78.672 ng

RT: 19.945 min Scan# 2866

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

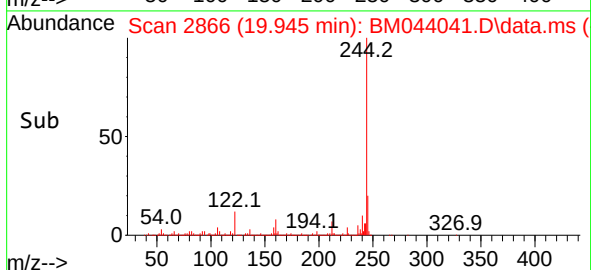
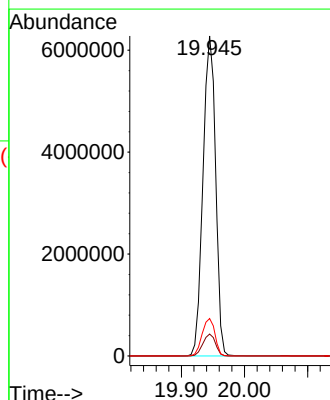
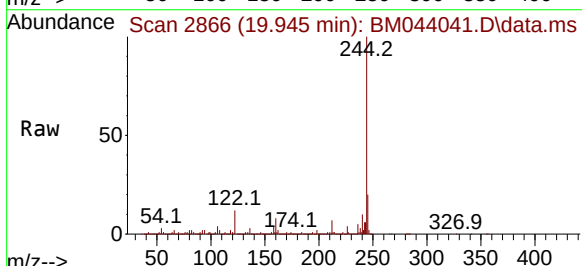
Tgt Ion:244 Resp: 8729549

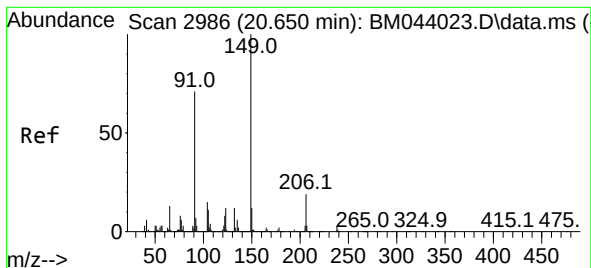
Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.2

122 11.7 9.5 14.3





#80

Butylbenzylphthalate

Concen: 3.014 ng

RT: 20.651 min Scan# 2986

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

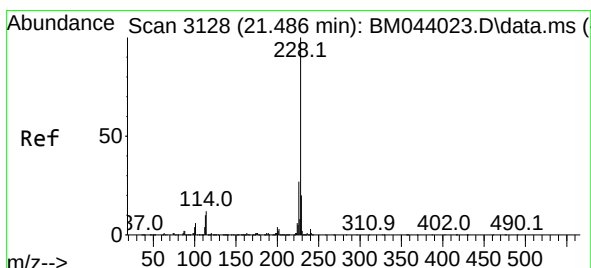
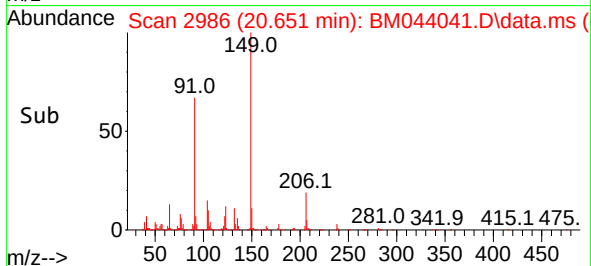
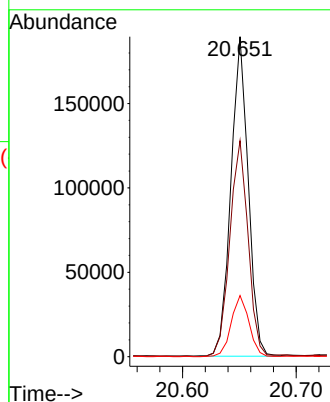
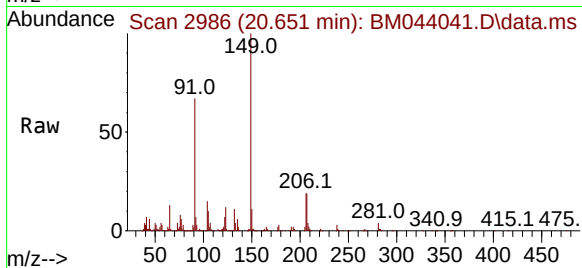
Tgt Ion:149 Resp: 200706

Ion Ratio Lower Upper

149 100

91 67.5 56.8 85.2

206 19.1 15.0 22.6



#81

Benzo(a)anthracene

Concen: 3.836 ng

RT: 21.486 min Scan# 3128

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

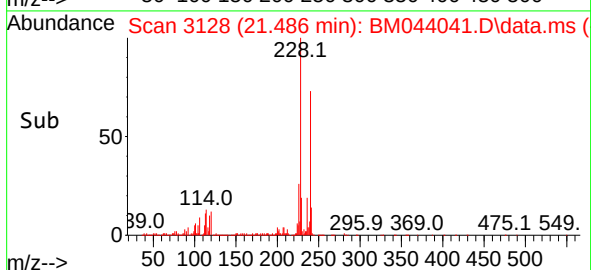
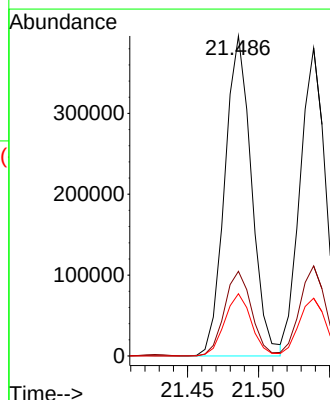
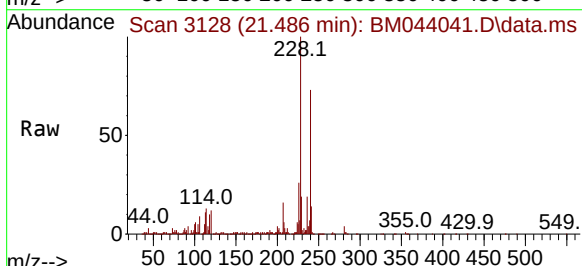
Tgt Ion:228 Resp: 519035

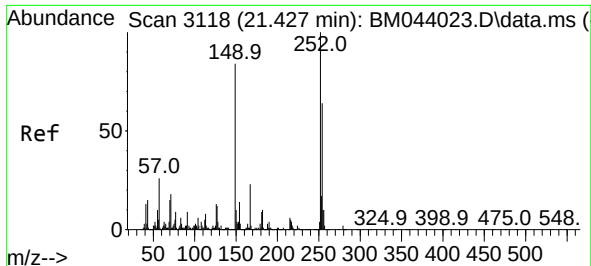
Ion Ratio Lower Upper

228 100

226 26.5 21.4 32.2

229 19.4 15.9 23.9

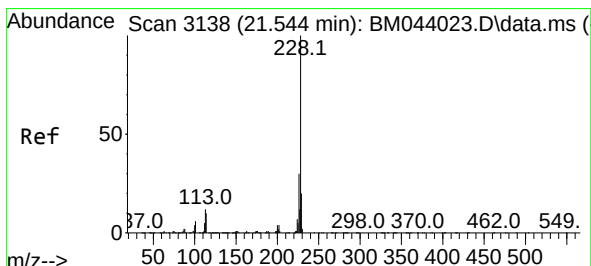
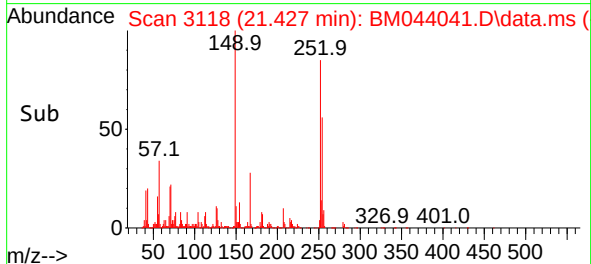
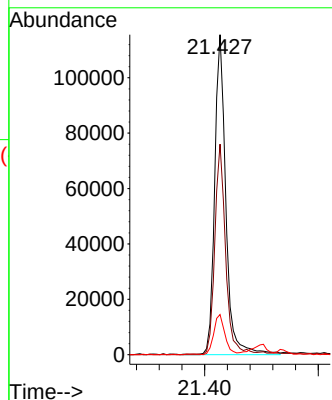
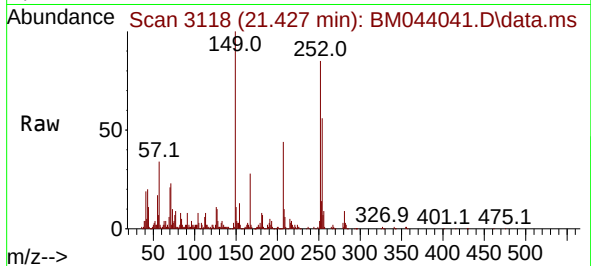




#82  
3,3'-Dichlorobenzidine  
Concen: 3.554 ng  
RT: 21.427 min Scan# 3118  
Delta R.T. 0.000 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

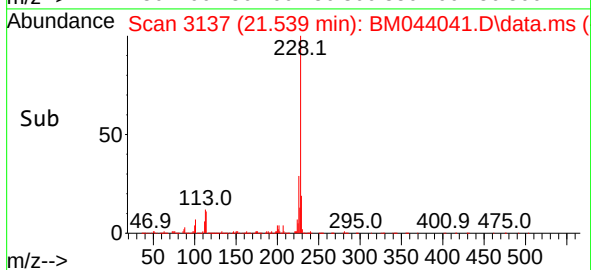
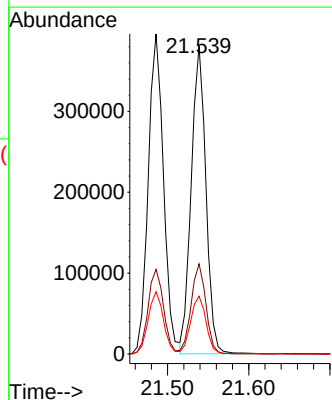
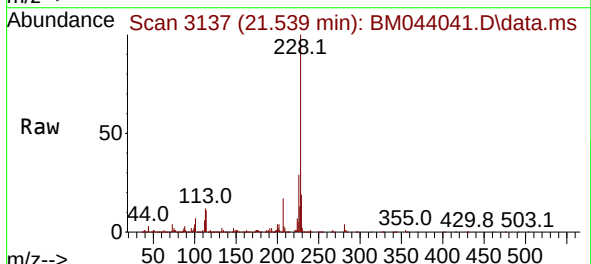
Instrument :  
BNA\_M  
ClientSampleId :  
LOD-MDL-SOIL-01-QT1-2024

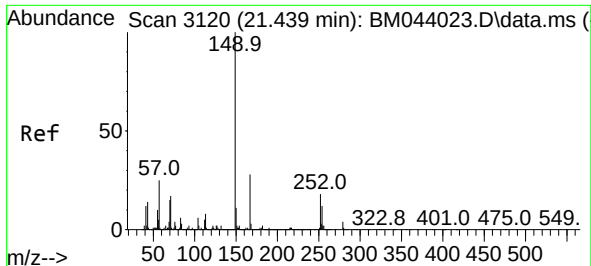
Tgt Ion:252 Resp: 157799  
Ion Ratio Lower Upper  
252 100  
254 65.8 51.2 76.8  
126 12.5 10.2 15.4



#83  
Chrysene  
Concen: 3.751 ng  
RT: 21.539 min Scan# 3137  
Delta R.T. -0.006 min  
Lab File: BM044041.D  
Acq: 09 Feb 2024 16:06

Tgt Ion:228 Resp: 479538  
Ion Ratio Lower Upper  
228 100  
226 29.2 24.2 36.2  
229 18.7 15.8 23.8

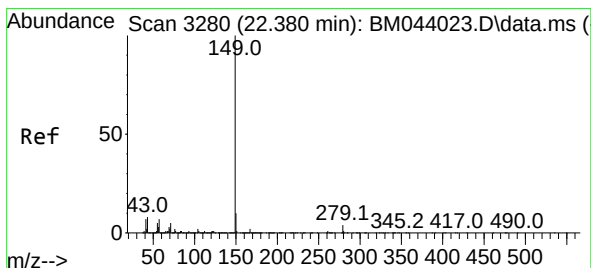
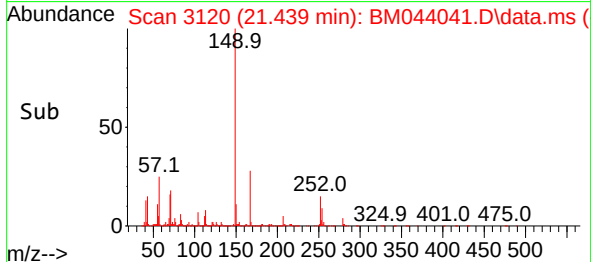
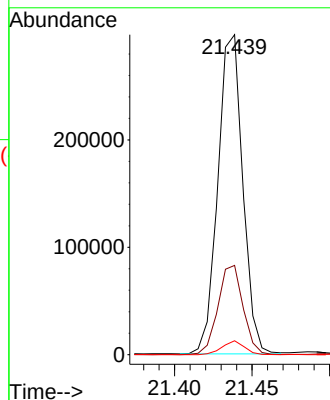
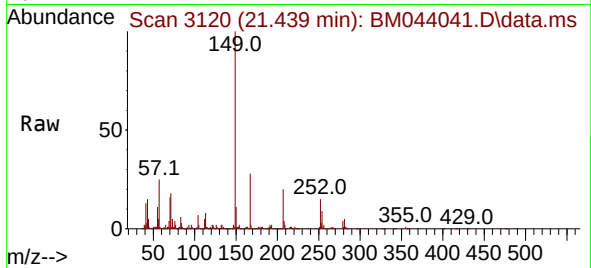




#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.378 ng  
 RT: 21.439 min Scan# 3120  
 Delta R.T. 0.000 min  
 Lab File: BM044041.D  
 Acq: 09 Feb 2024 16:06

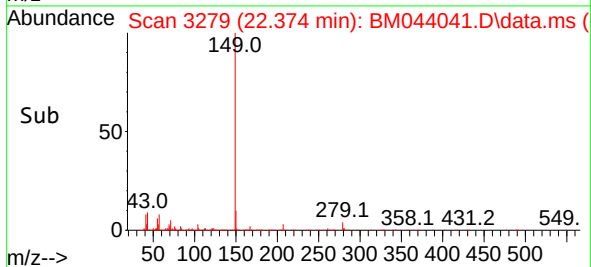
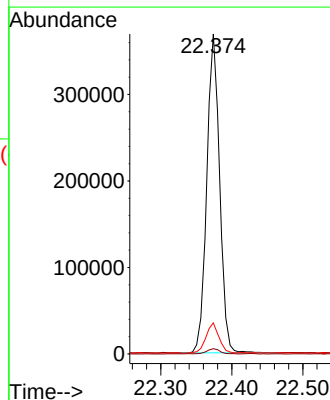
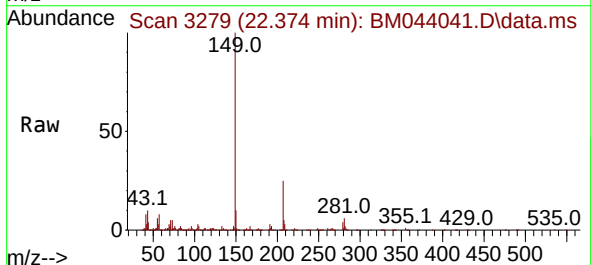
Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT1-2024

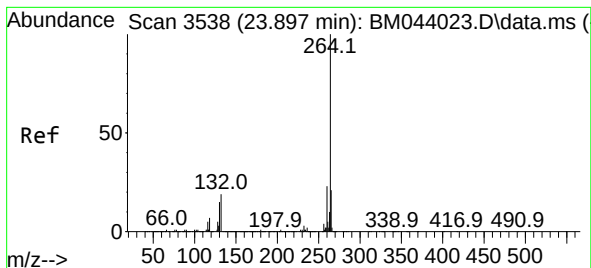
Tgt Ion:149 Resp: 331889  
 Ion Ratio Lower Upper  
 149 100  
 167 27.9 22.6 33.8  
 279 4.3 3.1 4.7



#85  
 Di-n-octyl phthalate  
 Concen: 2.706 ng  
 RT: 22.374 min Scan# 3279  
 Delta R.T. -0.006 min  
 Lab File: BM044041.D  
 Acq: 09 Feb 2024 16:06

Tgt Ion:149 Resp: 464251  
 Ion Ratio Lower Upper  
 149 100  
 167 1.8 1.2 1.8  
 43 9.6 7.0 10.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.897 min Scan# 3

Delta R.T. 0.000 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

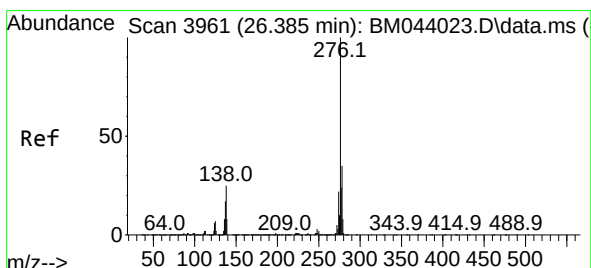
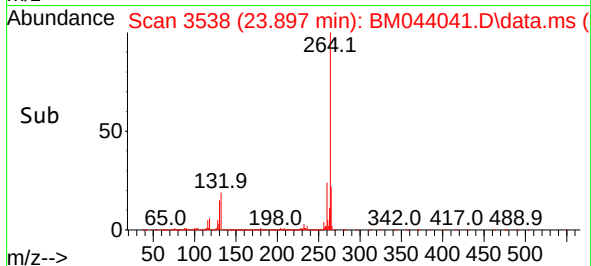
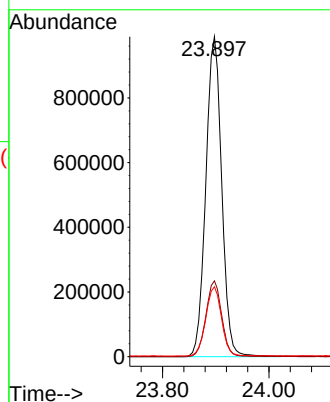
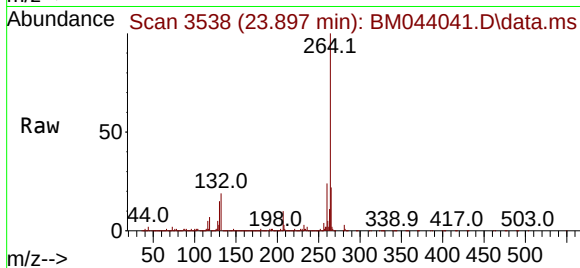
Tgt Ion:264 Resp: 2046758

Ion Ratio Lower Upper

264 100

260 23.7 18.8 28.2

265 21.9 17.3 25.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.510 ng

RT: 26.374 min Scan# 3959

Delta R.T. -0.012 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

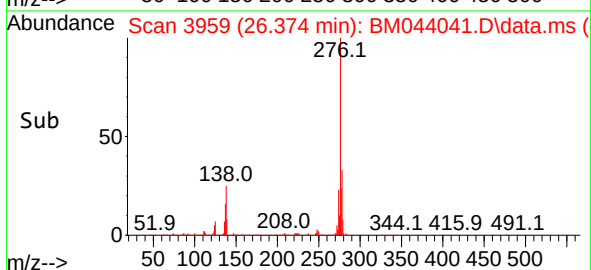
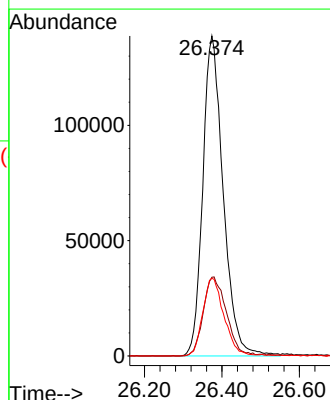
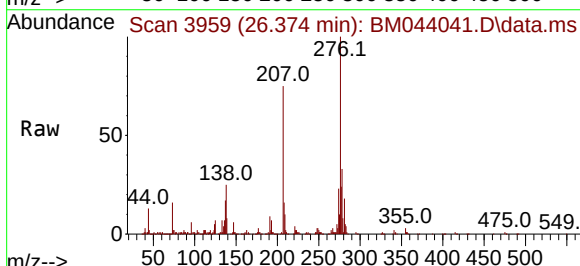
Tgt Ion:276 Resp: 508439

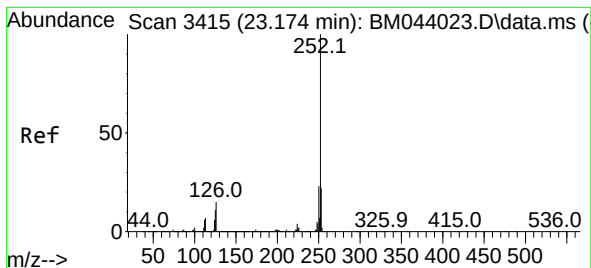
Ion Ratio Lower Upper

276 100

138 27.9 22.6 34.0

277 25.1 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 3.700 ng

RT: 23.168 min Scan# 3414

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024

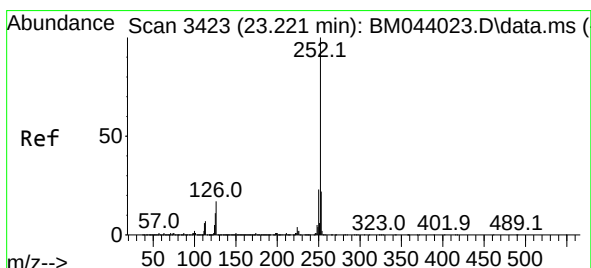
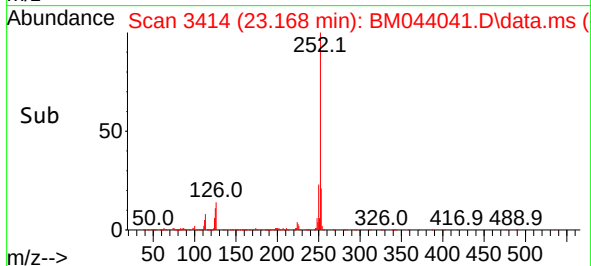
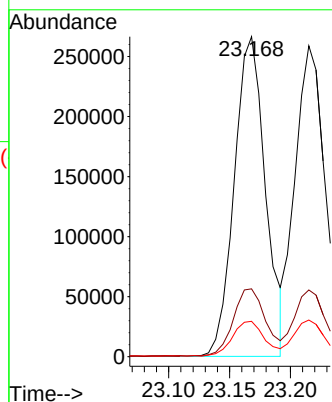
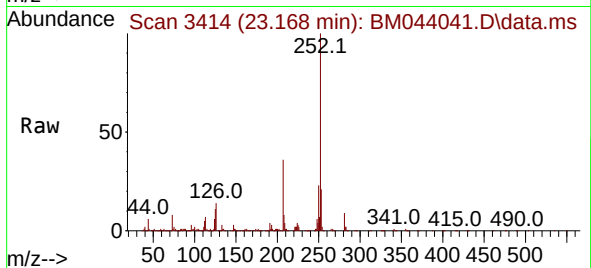
Tgt Ion:252 Resp: 473405

Ion Ratio Lower Upper

252 100

253 21.2 17.6 26.4

125 11.1 8.8 13.2



#89

Benzo(k)fluoranthene

Concen: 3.709 ng

RT: 23.215 min Scan# 3422

Delta R.T. -0.006 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

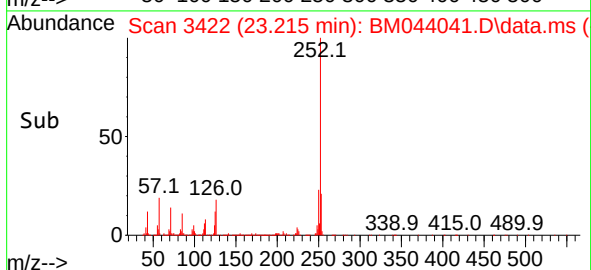
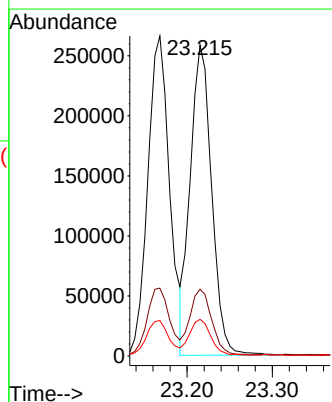
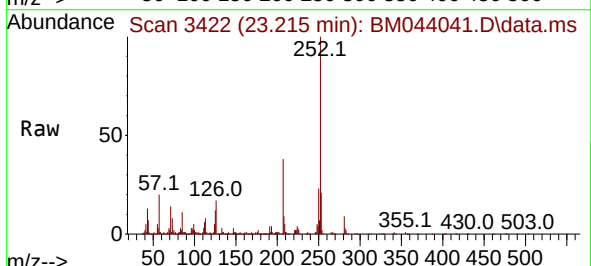
Tgt Ion:252 Resp: 450903

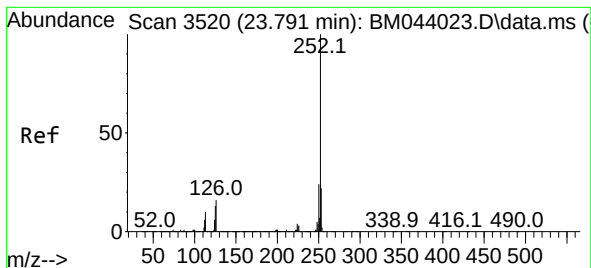
Ion Ratio Lower Upper

252 100

253 21.5 17.7 26.5

125 11.8 9.0 13.4





#90

Benzo(a)pyrene

Concen: 3.451 ng

RT: 23.786 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM044041.D

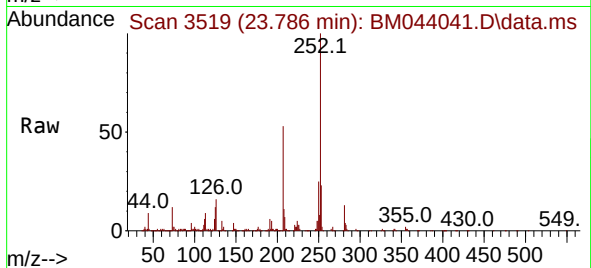
Acq: 09 Feb 2024 16:06

Instrument :

BNA\_M

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2024



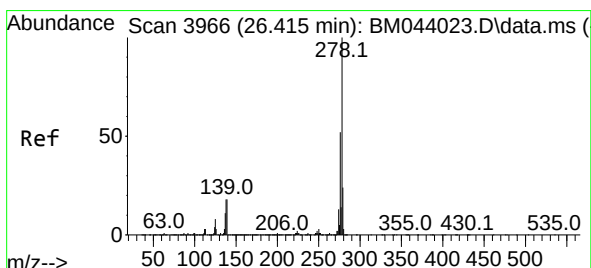
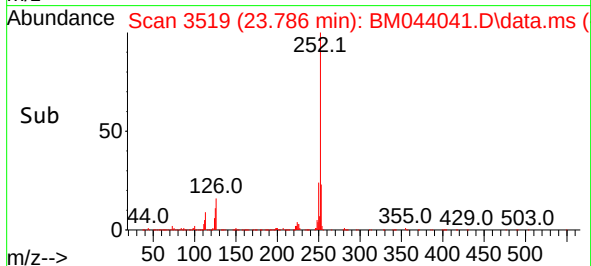
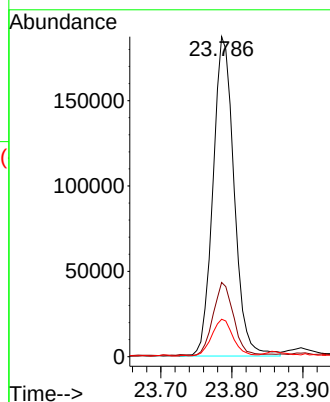
Tgt Ion:252 Resp: 385705

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 252 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 253 | 23.2 | 17.7 | 26.5 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 125 | 11.7 | 10.1 | 15.1 |
|-----|------|------|------|



#91

Dibenzo(a,h)anthracene

Concen: 3.590 ng

RT: 26.403 min Scan# 3964

Delta R.T. -0.012 min

Lab File: BM044041.D

Acq: 09 Feb 2024 16:06

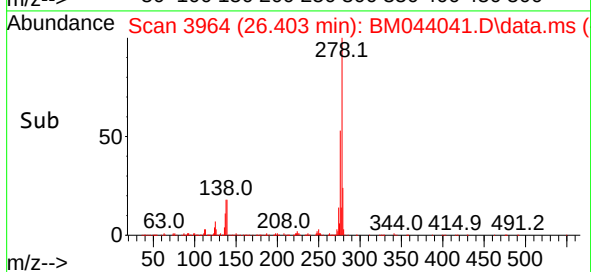
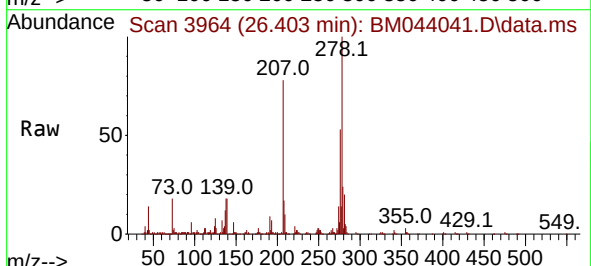
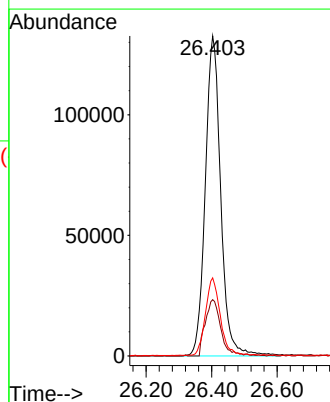
Tgt Ion:278 Resp: 434977

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

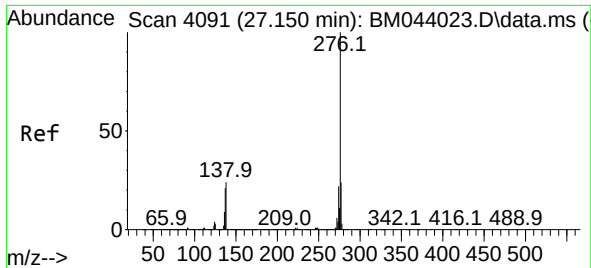
|     |     |  |  |
|-----|-----|--|--|
| 278 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 139 | 17.6 | 14.5 | 21.7 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 279 | 24.4 | 18.9 | 28.3 |
|-----|------|------|------|

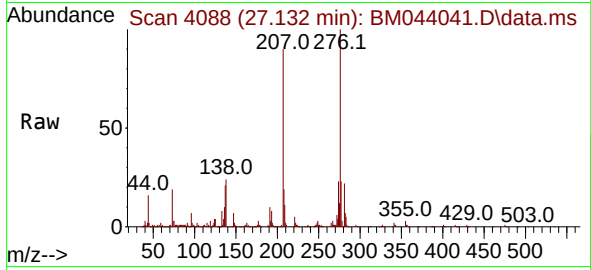






#92  
 Benzo(g,h,i)perylene  
 Concen: 3.392 ng  
 RT: 27.132 min Scan# 4091  
 Delta R.T. -0.018 min  
 Lab File: BM044041.D  
 Acq: 09 Feb 2024 16:06

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT1-2024



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 276   | Resp: | 416832 |
| Ion      | Ratio | Lower | Upper  |
| 276      | 100   |       |        |
| 277      | 22.6  | 19.0  | 28.4   |
| 138      | 24.3  | 19.1  | 28.7   |

