

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM020625\  
 Data File : BM049583.D  
 Acq On : 06 Feb 2025 17:03  
 Operator : RC/JU  
 Sample : Q1168-02  
 Misc : LOQ-SOIL 10PPM  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2025

Quant Time: Feb 06 18:13:26 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM020525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 06 11:55:12 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.822  | 152  | 187880   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.622 | 136  | 714239   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.463 | 164  | 441066   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.204 | 188  | 846227   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.444 | 240  | 734420   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.474 | 264  | 618274   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.393  | 112  | 697374   | 59.689 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.975  | 99   | 941188   | 61.488 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.975  | 82   | 839145   | 60.433 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.945 | 330  | 264898   | 50.686 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.092 | 172  | 1949454  | 57.257 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.833 | 244  | 2940695  | 61.144 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.299  | 88   | 43712    | 8.898  | ng    | 96       |
| 3) Pyridine                   | 3.693  | 79   | 182429   | 13.364 | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.599  | 42   | 93439    | 14.630 | ng    | # 89     |
| 6) Aniline                    | 7.145  | 93   | 233430   | 16.090 | ng    | 100      |
| 8) 2-Chlorophenol             | 7.387  | 128  | 148909   | 12.764 | ng    | 97       |
| 9) Benzaldehyde               | 6.957  | 77   | 106266   | 13.112 | ng    | 99       |
| 10) Phenol                    | 7.004  | 94   | 201243   | 13.348 | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 7.245  | 93   | 169829   | 13.924 | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 7.716  | 146  | 183334   | 13.539 | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 7.857  | 146  | 187773   | 13.709 | ng    | 97       |
| 14) 1,2-Dichlorobenzene       | 8.175  | 146  | 180950   | 13.682 | ng    | 96       |
| 15) Benzyl Alcohol            | 8.051  | 79   | 129746   | 12.184 | ng    | 95       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.351  | 45   | 249009   | 15.166 | ng    | 99       |
| 17) 2-Methylphenol            | 8.257  | 107  | 119543   | 12.968 | ng    | 96       |
| 18) Hexachloroethane          | 8.910  | 117  | 65694    | 13.131 | ng    | 93       |
| 19) n-Nitroso-di-n-propyla... | 8.628  | 70   | 136076   | 13.576 | ng    | 98       |
| 20) 3+4-Methylphenols         | 8.581  | 107  | 156054   | 12.824 | ng    | 98       |
| 22) Acetophenone              | 8.639  | 105  | 162786   | 8.462  | ng    | # 95     |
| 24) Nitrobenzene              | 9.016  | 77   | 192647   | 14.280 | ng    | 98       |
| 25) Isophorone                | 9.545  | 82   | 340553   | 13.599 | ng    | 99       |
| 26) 2-Nitrophenol             | 9.733  | 139  | 34136    | 10.448 | ng    | 94       |
| 27) 2,4-Dimethylphenol        | 9.792  | 122  | 113803   | 14.372 | ng    | 95       |
| 28) bis(2-Chloroethoxy)met... | 10.033 | 93   | 211339   | 13.103 | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 10.263 | 162  | 122328   | 11.218 | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.486 | 180  | 171400   | 12.830 | ng    | 99       |
| 31) Naphthalene               | 10.669 | 128  | 476788   | 12.657 | ng    | 99       |
| 32) Benzoic acid              | 9.792  | 122  | 113803   | 29.083 | ng    | # 15     |
| 33) 4-Chloroaniline           | 10.769 | 127  | 193133   | 13.698 | ng    | 99       |
| 34) Hexachlorobutadiene       | 10.969 | 225  | 105284   | 13.160 | ng    | 99       |
| 35) Caprolactam               | 11.516 | 113  | 19583    | 5.887  | ng    | # 87     |
| 36) 4-Chloro-3-methylphenol   | 11.892 | 107  | 115902   | 10.658 | ng    | 99       |
| 37) 2-Methylnaphthalene       | 12.286 | 142  | 319388   | 12.042 | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.504 | 142  | 309870   | 12.008 | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.651 | 216  | 118841   | 8.195  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.645 | 237  | 50653    | 13.682 | ng    | 96       |
| 43) 2,4,6-Trichlorophenol     | 12.892 | 196  | 82533    | 10.430 | ng    | 98       |

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 QLast Update : Thu Feb 06 11:55:12 2025  
 Response via : Initial Calibration

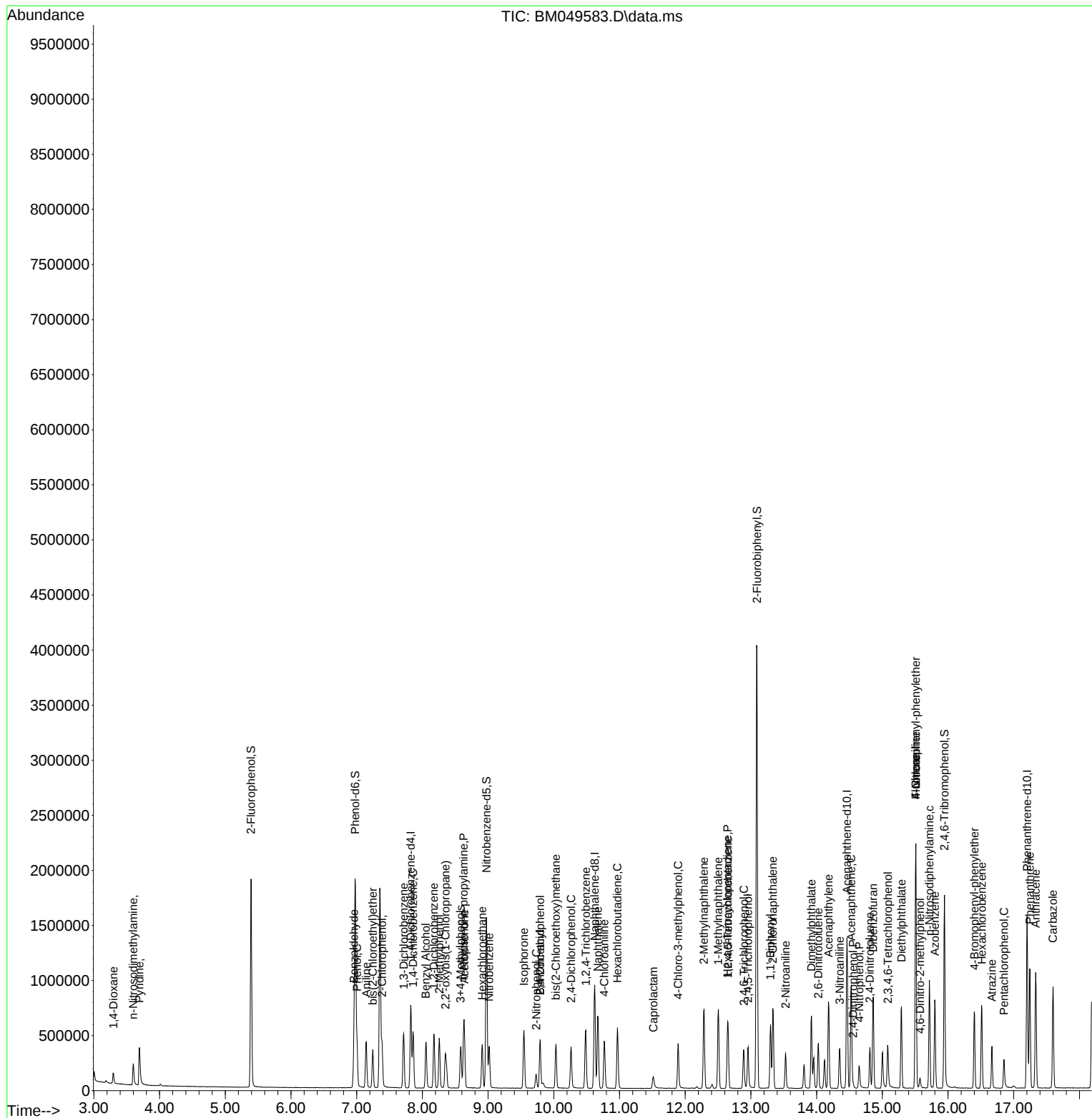
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.957 | 196  | 96478    | 11.094 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 13.298 | 154  | 279431   | 8.305  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.333 | 162  | 339331   | 13.035 | ng    | 98       |
| 48) 2-Nitroaniline            | 13.527 | 65   | 71295    | 11.935 | ng    | 95       |
| 49) Acenaphthylene            | 14.180 | 152  | 518561   | 13.509 | ng    | 99       |
| 50) Dimethylphthalate         | 13.921 | 163  | 389359   | 12.292 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.027 | 165  | 68222    | 12.447 | ng    | 94       |
| 52) Acenaphthene              | 14.527 | 154  | 316287   | 12.413 | ng    | 98       |
| 53) 3-Nitroaniline            | 14.351 | 138  | 71210    | 12.761 | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 14.557 | 184  | 8780     | 12.150 | ng    | # 86     |
| 55) Dibenzofuran              | 14.863 | 168  | 511634   | 12.611 | ng    | 99       |
| 56) 4-Nitrophenol             | 14.651 | 139  | 42206    | 8.972  | ng    | 97       |
| 57) 2,4-Dinitrotoluene        | 14.810 | 165  | 79278    | 13.957 | ng    | 94       |
| 58) Fluorene                  | 15.510 | 166  | 418947   | 12.071 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 15.086 | 232  | 74772    | 10.177 | ng    | 96       |
| 60) Diethylphthalate          | 15.292 | 149  | 376618   | 11.831 | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 15.510 | 204  | 216735   | 11.733 | ng    | 95       |
| 62) 4-Nitroaniline            | 15.510 | 138  | 73323    | 11.732 | ng    | 94       |
| 63) Azobenzene                | 15.798 | 77   | 439425   | 13.225 | ng    | 97       |
| 65) 4,6-Dinitro-2-methylph... | 15.574 | 198  | 15622    | 12.372 | ng    | 93       |
| 66) n-Nitrosodiphenylamine    | 15.715 | 169  | 330859   | 12.398 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.404 | 248  | 119572   | 12.163 | ng    | 100      |
| 68) Hexachlorobenzene         | 16.515 | 284  | 139933   | 12.401 | ng    | 99       |
| 69) Atrazine                  | 16.668 | 200  | 59399    | 7.487  | ng    | 94       |
| 70) Pentachlorophenol         | 16.851 | 266  | 44117    | 12.947 | ng    | 96       |
| 71) Phenanthrene              | 17.245 | 178  | 597954   | 12.403 | ng    | 100      |
| 72) Anthracene                | 17.333 | 178  | 600954   | 12.589 | ng    | 99       |
| 73) Carbazole                 | 17.598 | 167  | 531398   | 12.684 | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.186 | 149  | 546359   | 10.277 | ng    | 99       |
| 75) Fluoranthene              | 19.256 | 202  | 641701   | 11.369 | ng    | 99       |
| 77) Benzidine                 | 19.439 | 184  | 60871    | 9.359  | ng    | 99       |
| 78) Pyrene                    | 19.615 | 202  | 667680   | 12.142 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.533 | 149  | 113117   | 6.611  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.427 | 228  | 621776   | 12.492 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 21.344 | 252  | 75004    | 5.600  | ng    | 99       |
| 83) Chrysene                  | 21.486 | 228  | 579459   | 12.426 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.380 | 149  | 230418   | 7.855  | ng    | 97       |
| 85) Di-n-octyl phthalate      | 22.538 | 149  | 290820   | 6.284  | ng    | # 93     |
| 87) Indeno(1,2,3-cd)pyrene    | 27.891 | 276  | 405039   | 11.996 | ng    | # 92     |
| 88) Benzo(b)fluoranthene      | 23.515 | 252  | 483948   | 11.378 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.580 | 252  | 499781   | 12.098 | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.327 | 252  | 409555   | 12.151 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 27.962 | 278  | 306992   | 11.504 | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 28.944 | 276  | 335373   | 11.250 | ng    | 98       |

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

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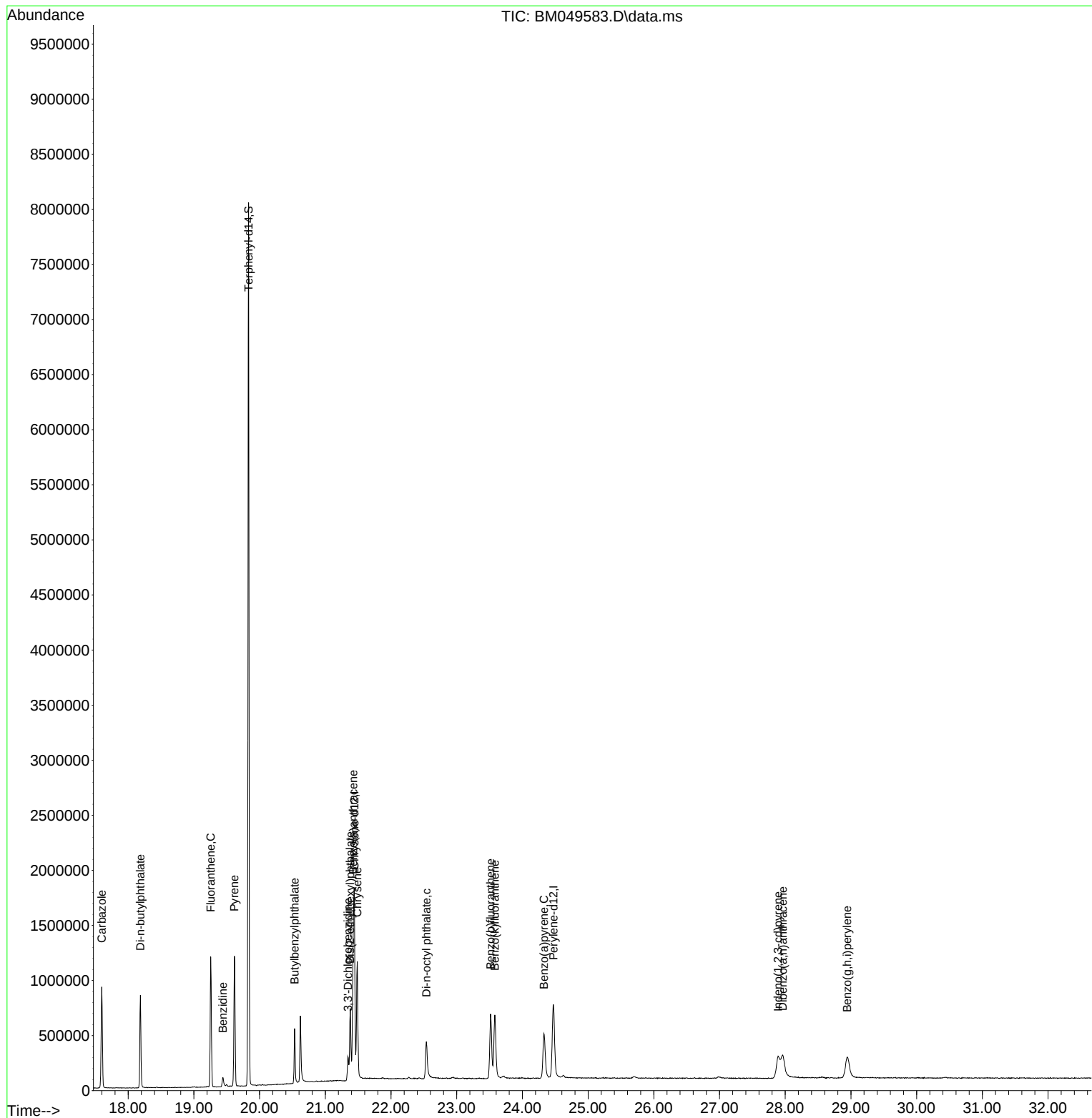
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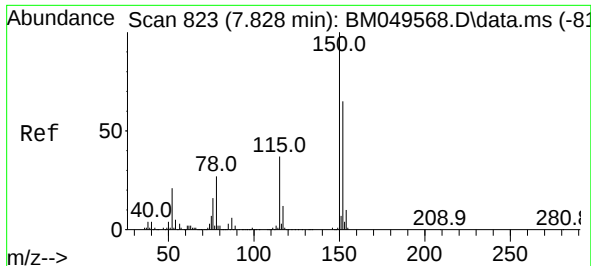


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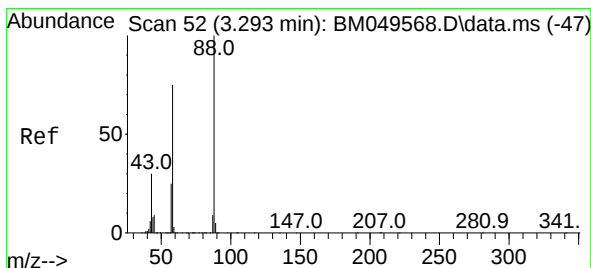
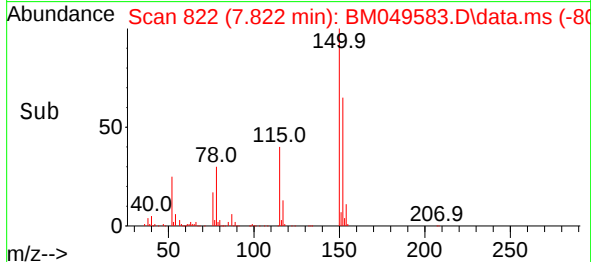
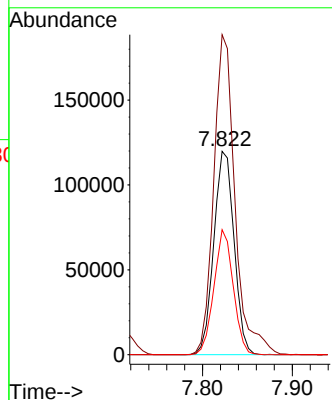
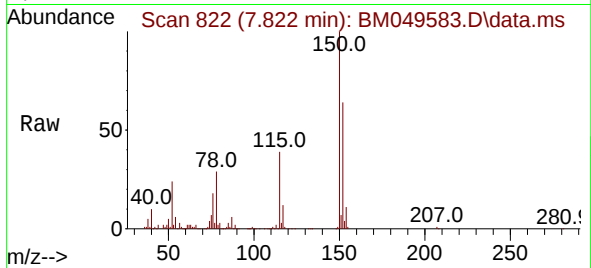




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.822 min Scan# 81  
 Delta R.T. -0.006 min  
 Lab File: BM049583.D  
 Acq: 06 Feb 2025 17:03

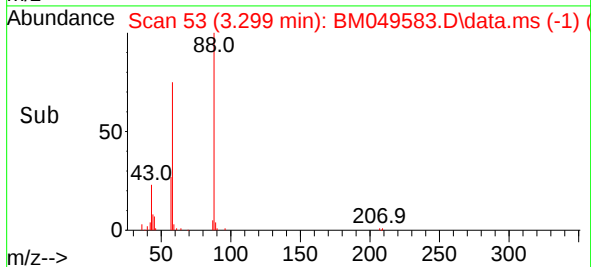
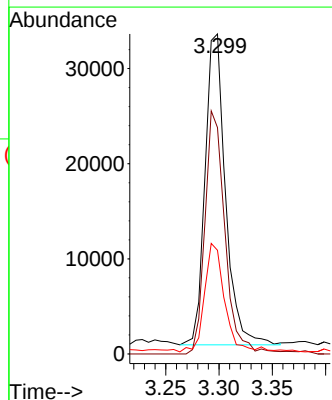
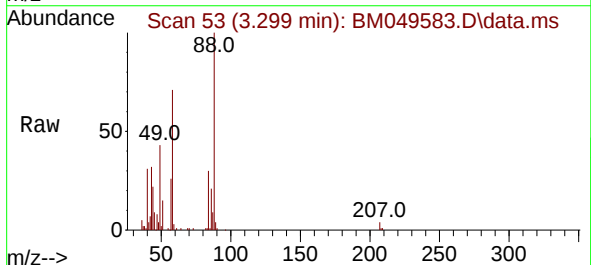
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 ClientSampleId :  
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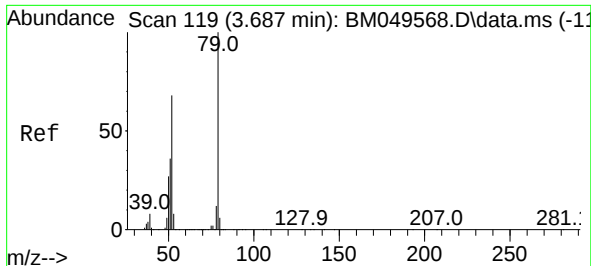
Tgt Ion:152 Resp: 187880  
 Ion Ratio Lower Upper  
 152 100  
 150 157.3 122.6 184.0  
 115 61.4 45.4 68.0



#2  
 1,4-Dioxane  
 Concen: 8.898 ng  
 RT: 3.299 min Scan# 53  
 Delta R.T. 0.006 min  
 Lab File: BM049583.D  
 Acq: 06 Feb 2025 17:03

Tgt Ion: 88 Resp: 43712  
 Ion Ratio Lower Upper  
 88 100  
 58 77.6 60.0 90.0  
 43 33.5 24.4 36.6

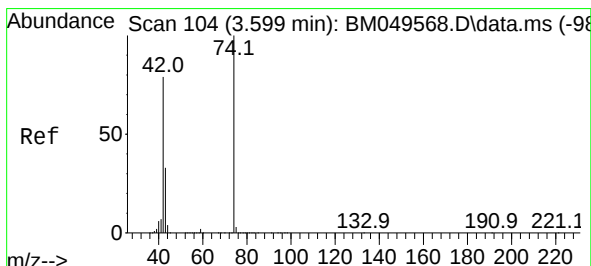
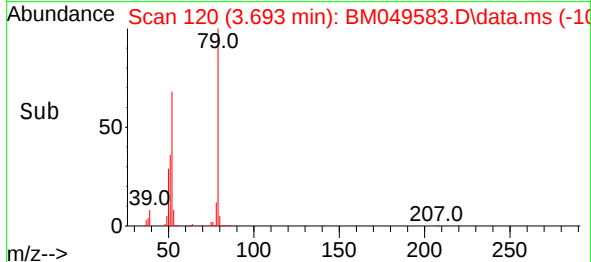
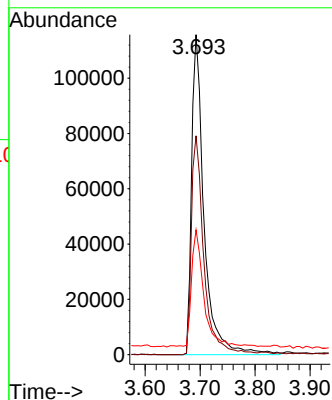
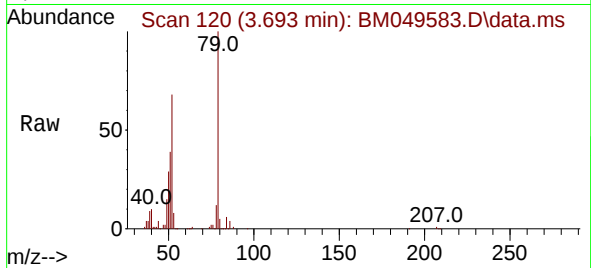




#3  
Pyridine  
Concen: 13.364 ng  
RT: 3.693 min Scan# 119  
Delta R.T. 0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

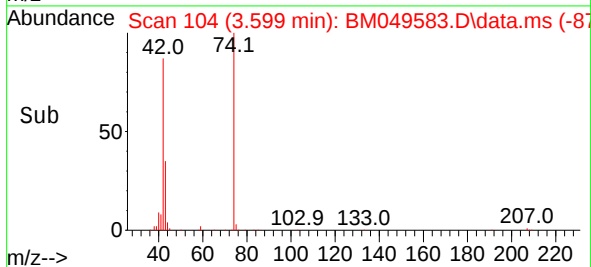
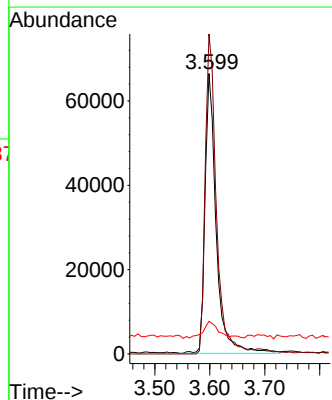
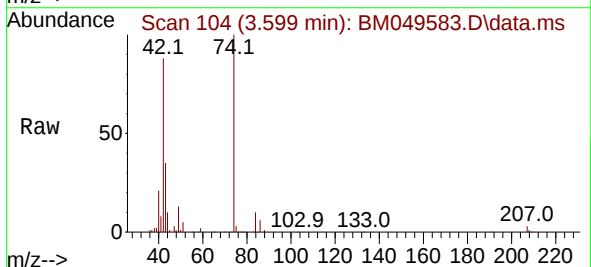
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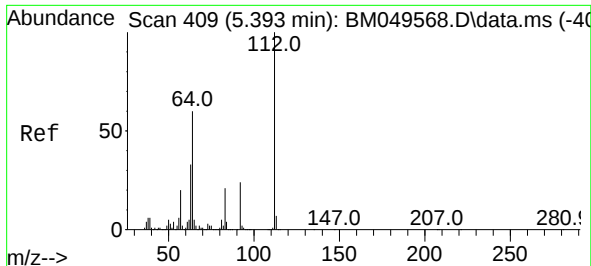
Tgt Ion: 79 Resp: 182429  
Ion Ratio Lower Upper  
79 100  
52 68.4 54.5 81.7  
51 39.0 29.0 43.6



#4  
n-Nitrosodimethylamine  
Concen: 14.630 ng  
RT: 3.599 min Scan# 104  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion: 42 Resp: 93439  
Ion Ratio Lower Upper  
42 100  
74 114.1 101.3 151.9  
44 11.7 6.5 9.7#

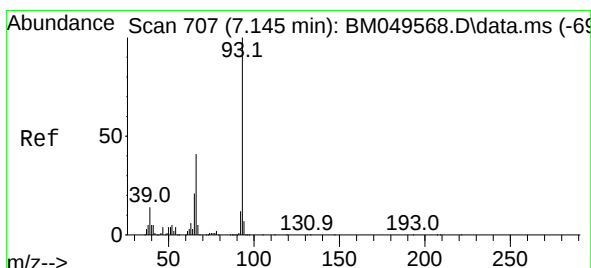
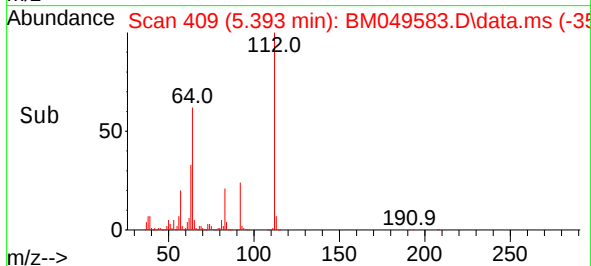
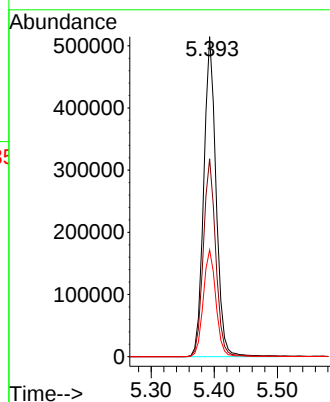
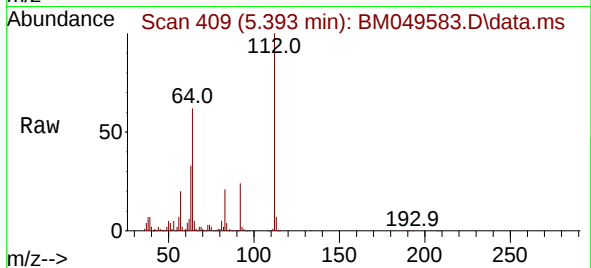




#5  
2-Fluorophenol  
Concen: 59.689 ng  
RT: 5.393 min Scan# 409  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
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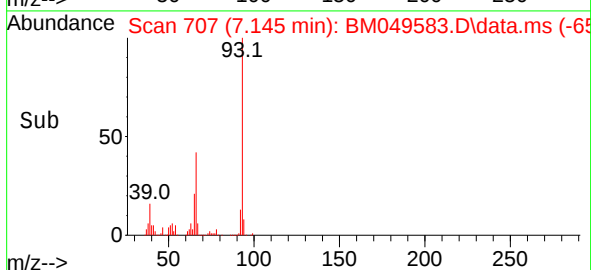
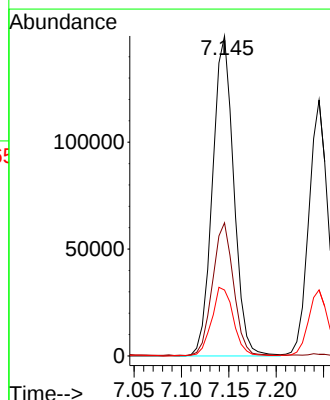
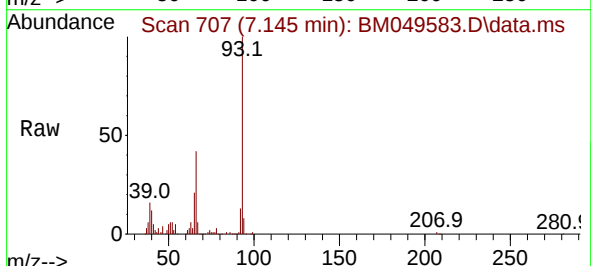
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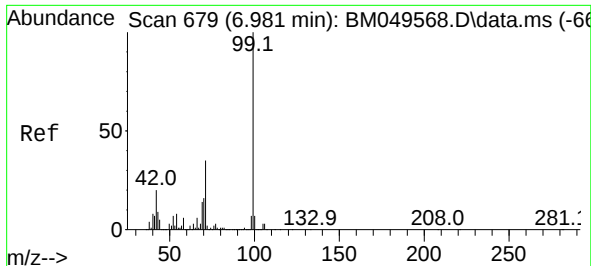
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|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 697374 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 61.8  | 47.8  | 71.8   |
| 63        | 33.4  | 26.2  | 39.4   |



#6  
Aniline  
Concen: 16.090 ng  
RT: 7.145 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 233430 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 66        | 41.6  | 33.3  | 49.9   |
| 65        | 20.6  | 16.8  | 25.2   |

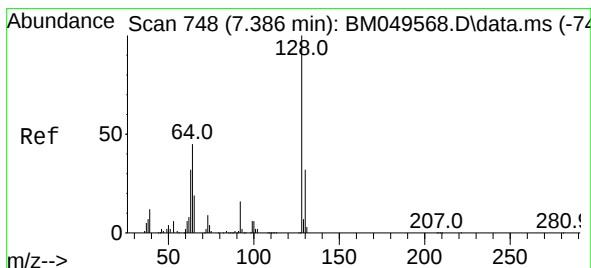
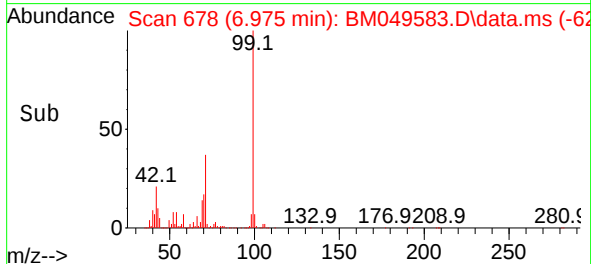
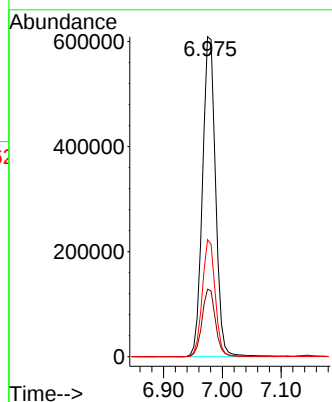
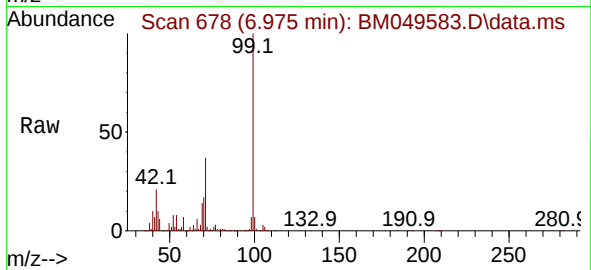




#7  
Phenol-d6  
Concen: 61.488 ng  
RT: 6.975 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

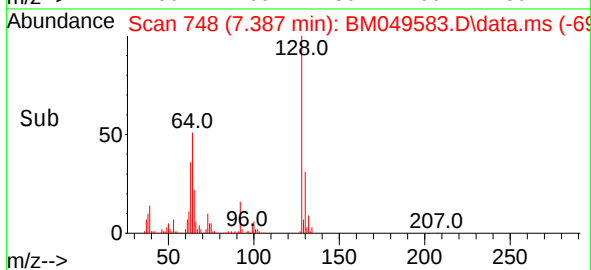
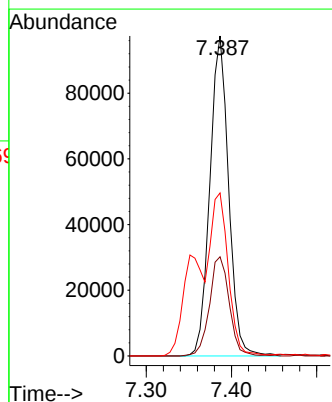
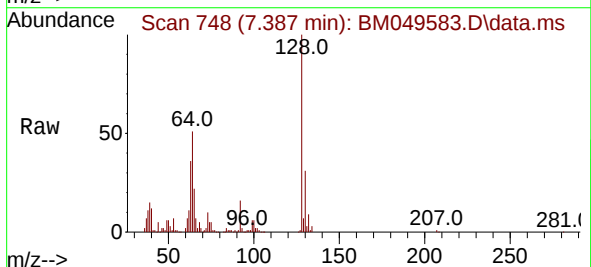
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

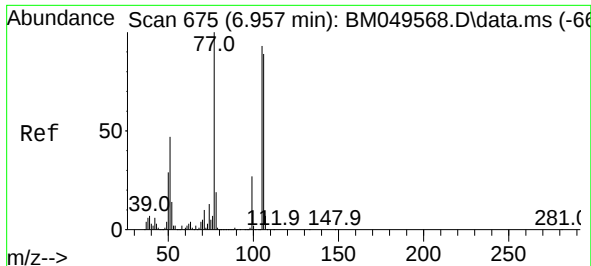
Tgt Ion: 99 Resp: 941188  
Ion Ratio Lower Upper  
99 100  
42 21.1 16.0 24.0  
71 36.6 27.8 41.6



#8  
2-Chlorophenol  
Concen: 12.764 ng  
RT: 7.387 min Scan# 748  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion: 128 Resp: 148909  
Ion Ratio Lower Upper  
128 100  
130 31.0 12.4 52.4  
64 50.9 28.7 68.7

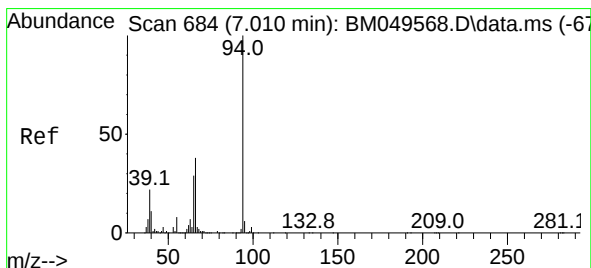
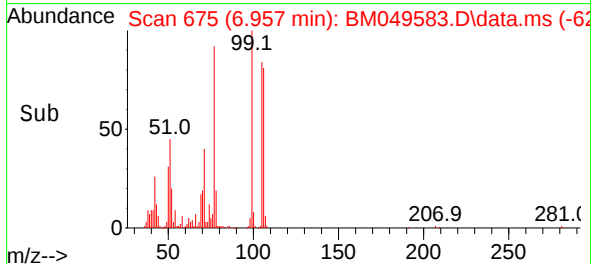
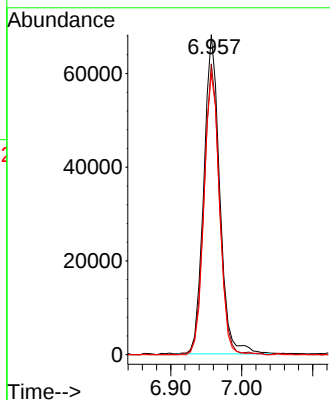
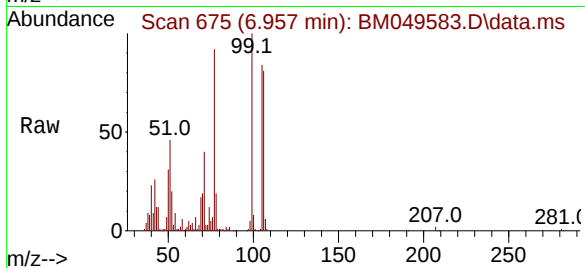




#9  
Benzaldehyde  
Concen: 13.112 ng  
RT: 6.957 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

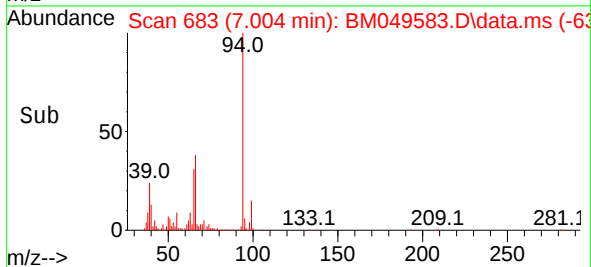
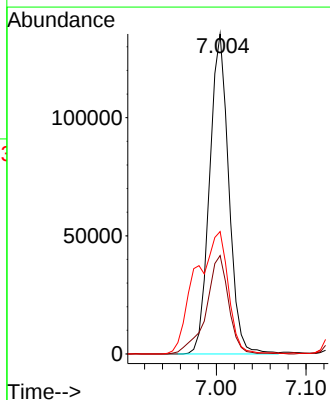
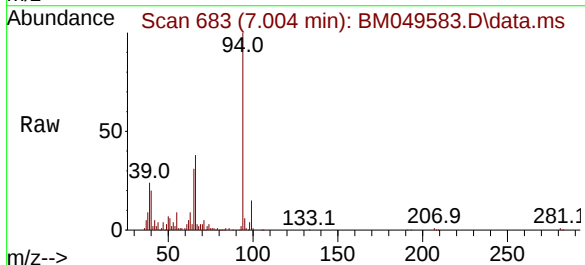
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

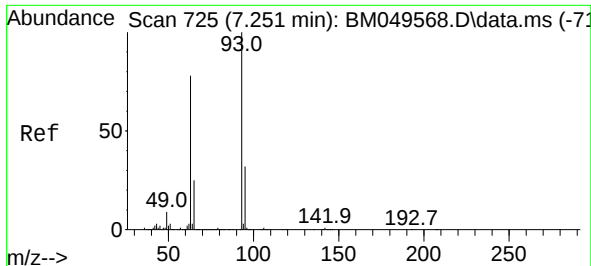
Tgt Ion: 77 Resp: 106266  
Ion Ratio Lower Upper  
77 100  
105 90.9 72.7 112.7  
106 87.9 68.9 108.9



#10  
Phenol  
Concen: 13.348 ng  
RT: 7.004 min Scan# 683  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion: 94 Resp: 201243  
Ion Ratio Lower Upper  
94 100  
65 30.7 9.3 49.3  
66 38.3 17.7 57.7

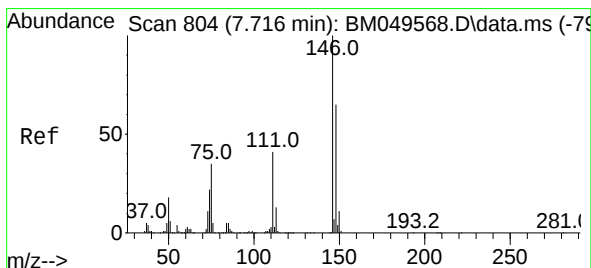
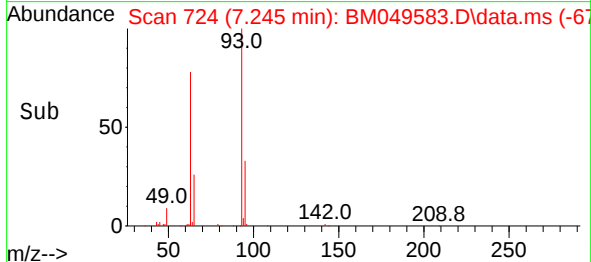
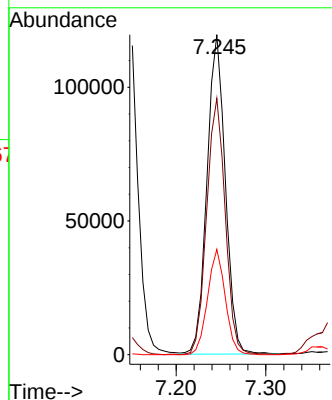
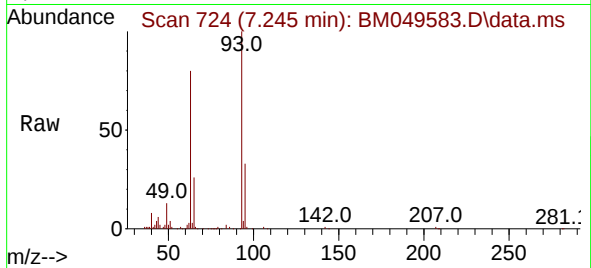




#11  
bis(2-Chloroethyl)ether  
Concen: 13.924 ng  
RT: 7.245 min Scan# 725  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

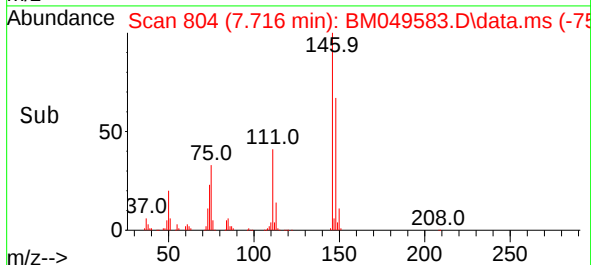
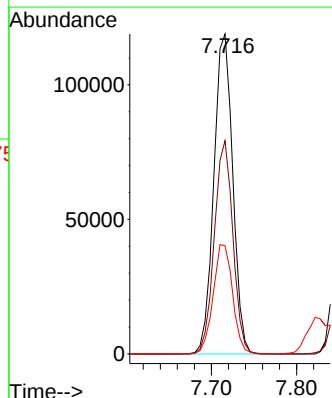
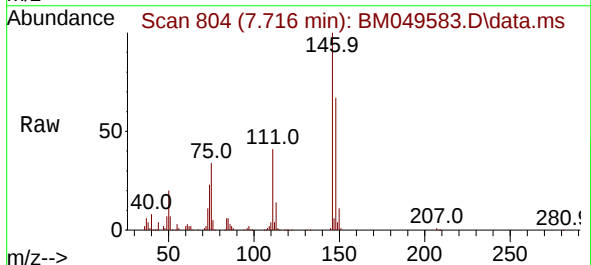
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

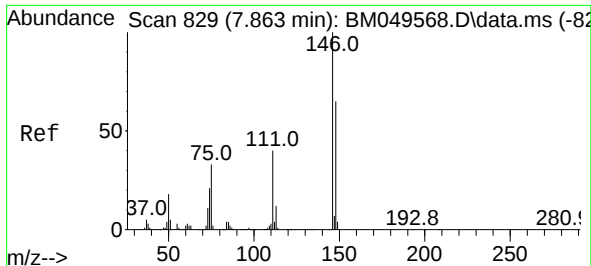
Tgt Ion: 93 Resp: 169829  
Ion Ratio Lower Upper  
93 100  
63 80.1 57.3 97.3  
95 32.9 12.1 52.1



#12  
1,3-Dichlorobenzene  
Concen: 13.539 ng  
RT: 7.716 min Scan# 804  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion:146 Resp: 183334  
Ion Ratio Lower Upper  
146 100  
148 66.6 52.2 78.2  
75 33.8 28.3 42.5

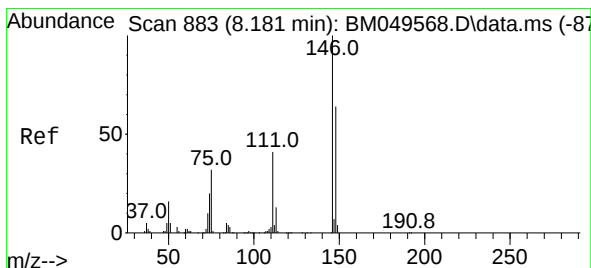
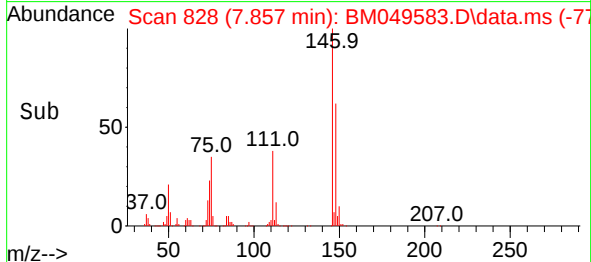
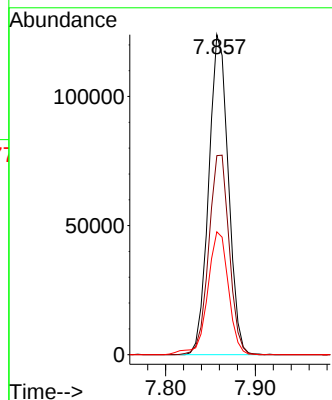
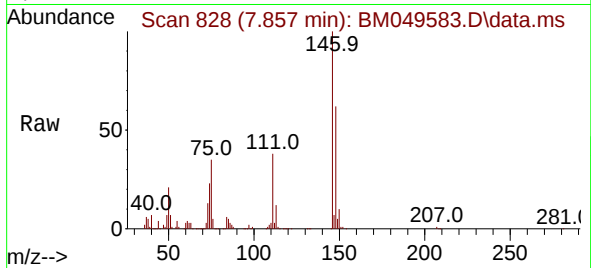




#13  
1,4-Dichlorobenzene  
Concen: 13.709 ng  
RT: 7.857 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

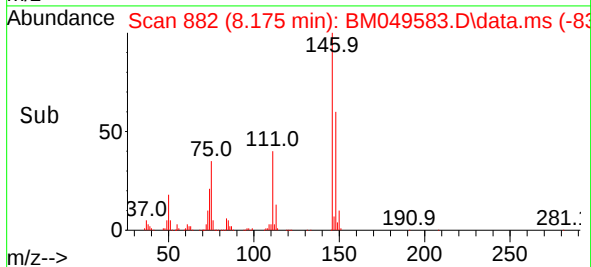
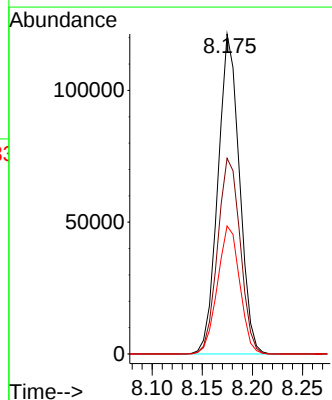
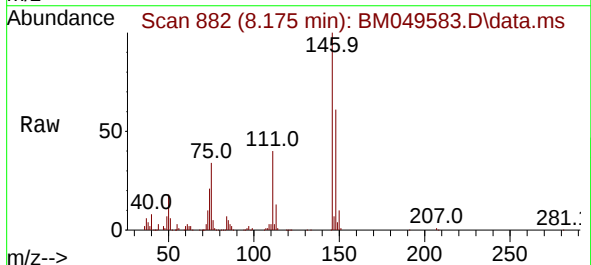
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

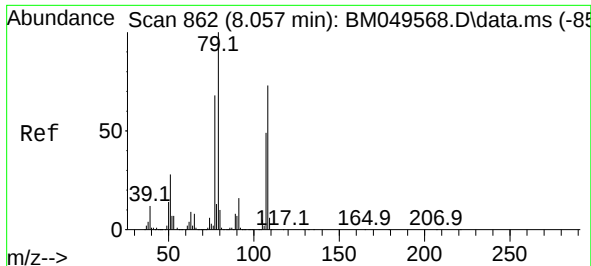
Tgt Ion:146 Resp: 187773  
Ion Ratio Lower Upper  
146 100  
148 62.2 52.1 78.1  
111 38.4 31.7 47.5



#14  
1,2-Dichlorobenzene  
Concen: 13.682 ng  
RT: 8.175 min Scan# 882  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion:146 Resp: 180950  
Ion Ratio Lower Upper  
146 100  
148 61.2 51.5 77.3  
111 40.0 33.4 50.0





#15

Benzyl Alcohol

Concen: 12.184 ng

RT: 8.051 min Scan# 8

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

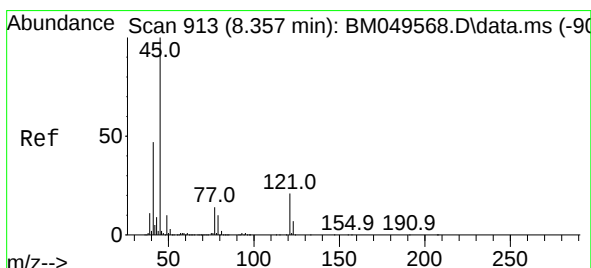
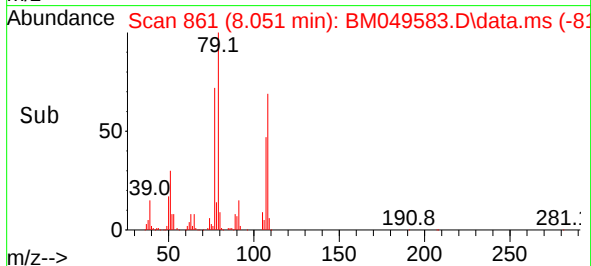
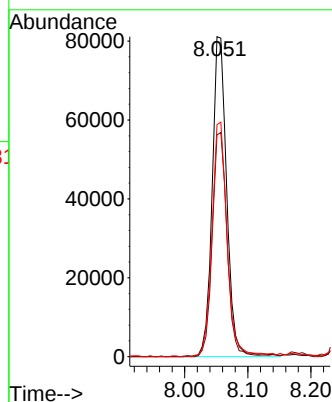
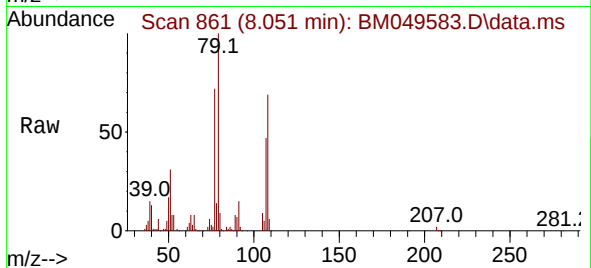
Tgt Ion: 79 Resp: 129746

Ion Ratio Lower Upper

79 100

108 69.3 58.6 88.0

77 72.5 54.0 81.0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 15.166 ng

RT: 8.351 min Scan# 912

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

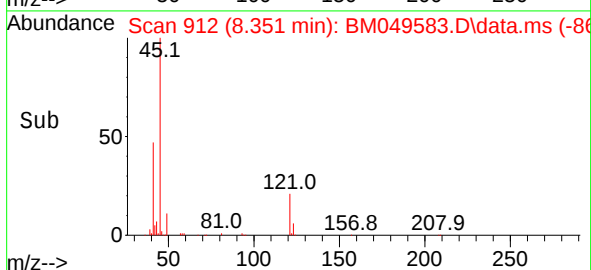
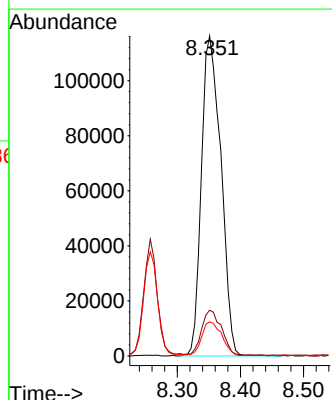
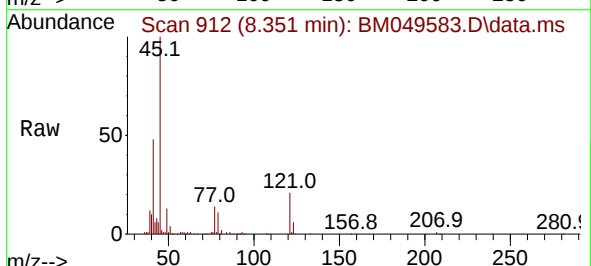
Tgt Ion: 45 Resp: 249009

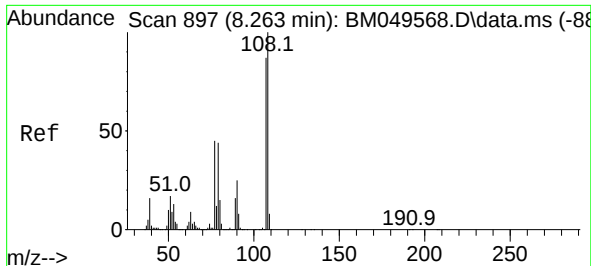
Ion Ratio Lower Upper

45 100

77 14.3 0.0 34.0

79 10.7 0.0 30.8

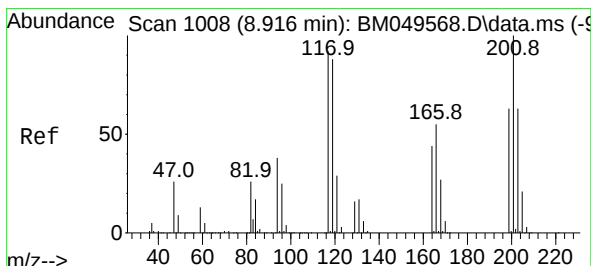
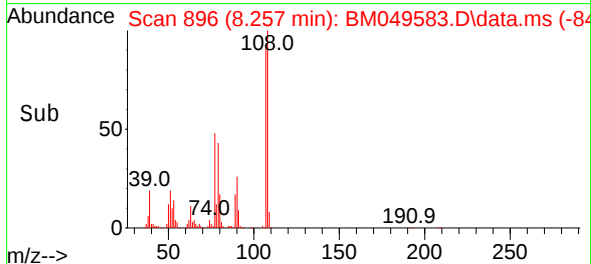
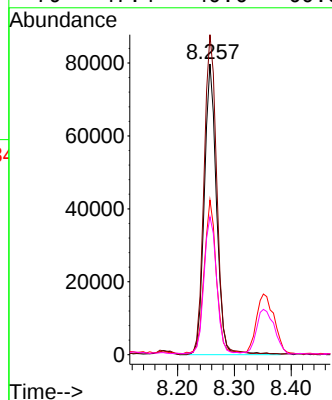
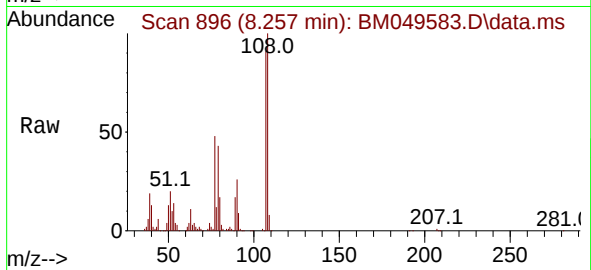




#17  
2-Methylphenol  
Concen: 12.968 ng  
RT: 8.257 min Scan# 896  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

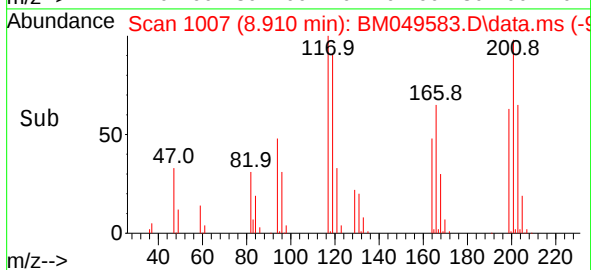
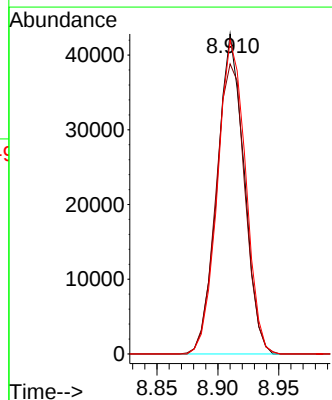
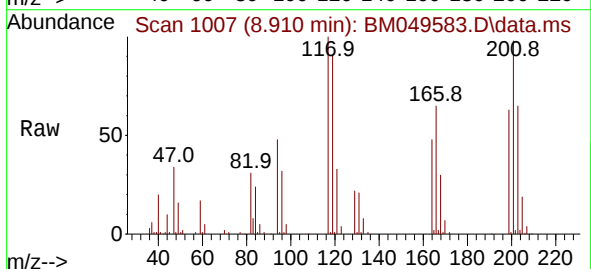
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

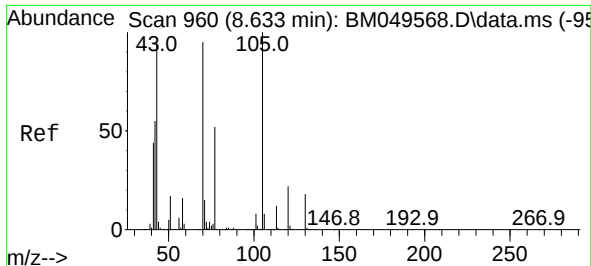
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 119543 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 108       | 110.1 | 92.2  | 138.4  |
| 77        | 53.2  | 41.3  | 61.9   |
| 79        | 47.4  | 40.6  | 60.8   |



#18  
Hexachloroethane  
Concen: 13.131 ng  
RT: 8.910 min Scan# 1007  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 65694 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 90.7  | 76.8  | 115.2 |
| 201       | 99.8  | 87.0  | 130.6 |

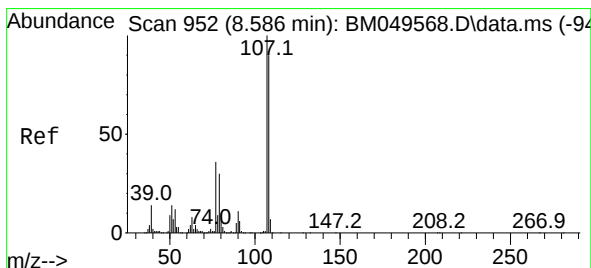
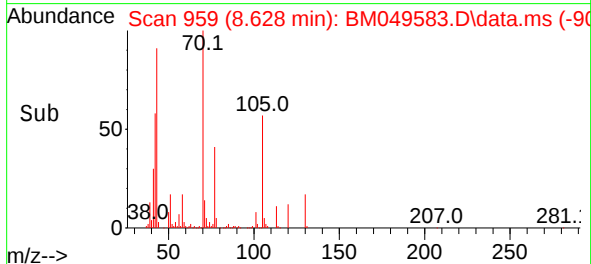
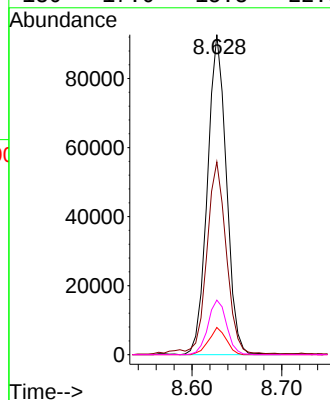
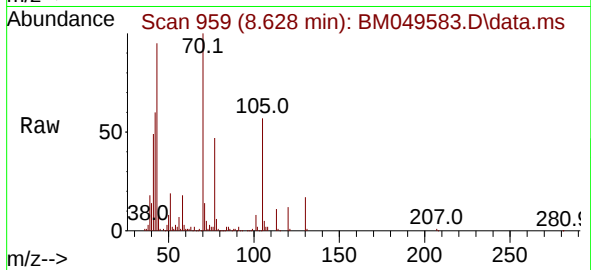




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.576 ng  
RT: 8.628 min Scan# 910  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

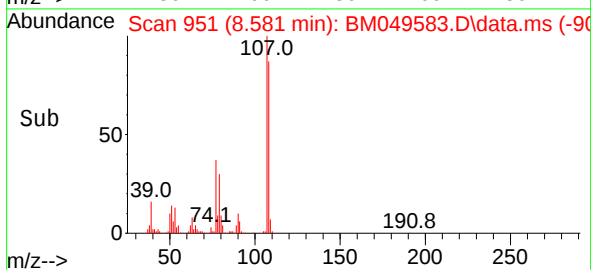
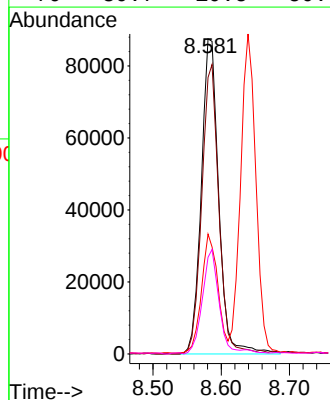
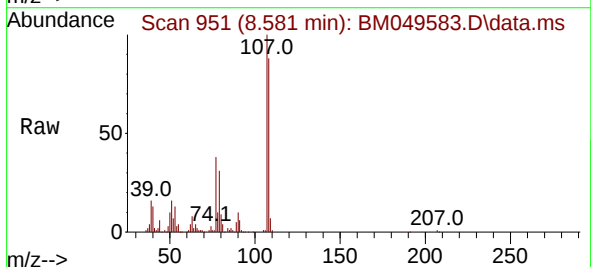
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

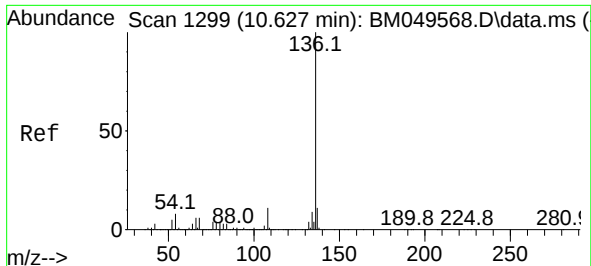
Tgt Ion: 70 Resp: 136076  
Ion Ratio Lower Upper  
70 100  
42 60.2 47.4 71.2  
101 8.5 7.1 10.7  
130 17.0 15.3 22.9



#20  
3+4-Methylphenols  
Concen: 12.824 ng  
RT: 8.581 min Scan# 951  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion: 107 Resp: 156054  
Ion Ratio Lower Upper  
107 100  
108 87.8 69.6 109.6  
77 38.1 16.0 56.0  
79 30.7 10.5 50.5

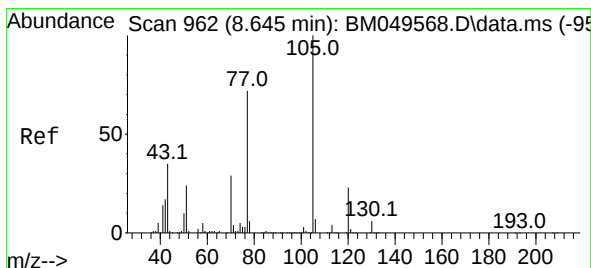
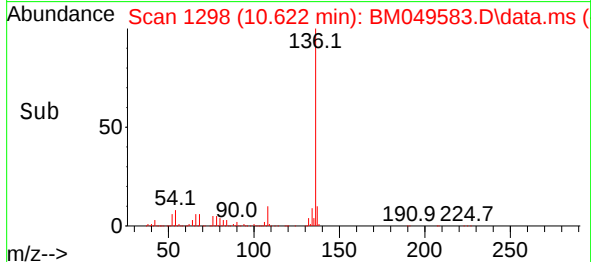
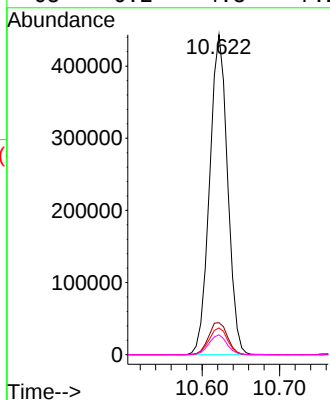
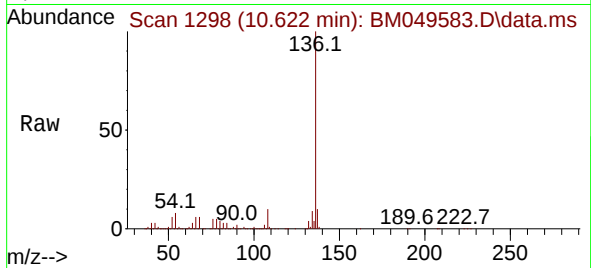




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.622 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

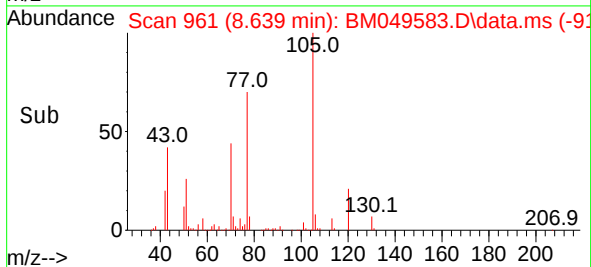
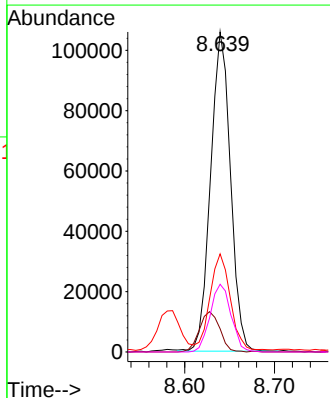
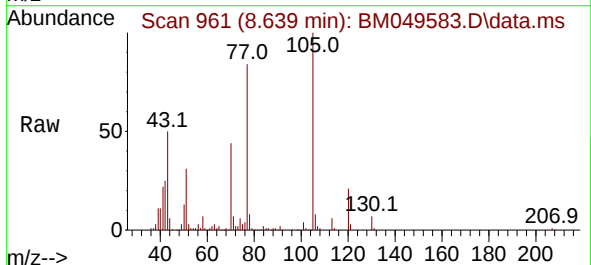
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

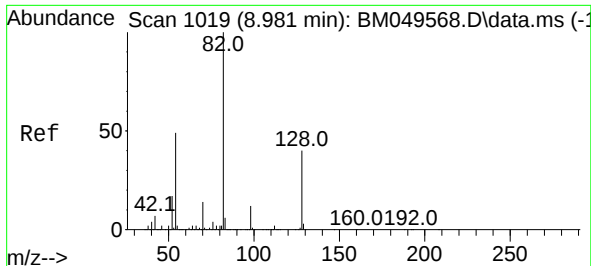
|             |              |
|-------------|--------------|
| Tgt Ion:136 | Resp: 714239 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 10.0    | 8.6 13.0     |
| 54 8.4      | 6.6 10.0     |
| 68 6.2      | 4.8 7.2      |



#22  
Acetophenone  
Concen: 8.462 ng  
RT: 8.639 min Scan# 961  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:105 | Resp: | 162786 |
| Ion | Ratio   | Lower | Upper  |
| 105 | 100     |       |        |
| 71  | 7.2     | 3.5   | 5.3#   |
| 51  | 30.6    | 21.7  | 32.5   |
| 120 | 21.1    | 18.1  | 27.1   |





#23

Nitrobenzene-d5

Concen: 60.433 ng

RT: 8.975 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

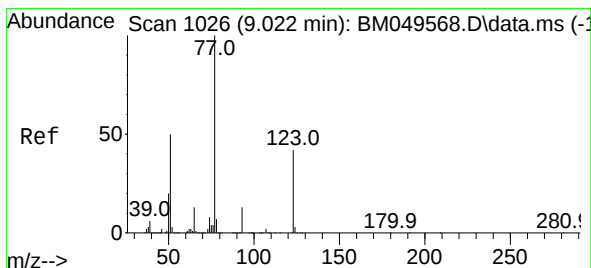
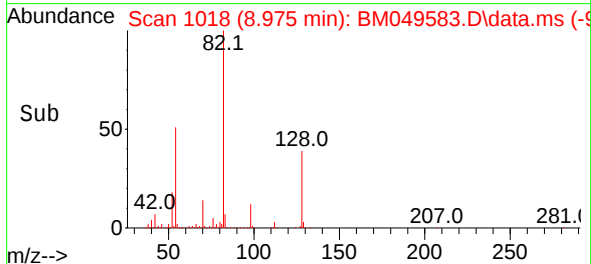
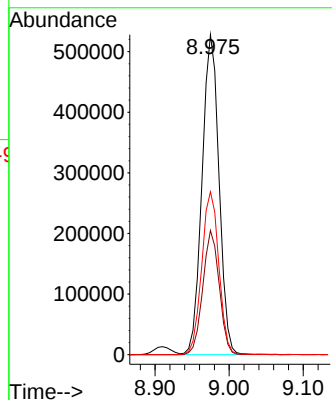
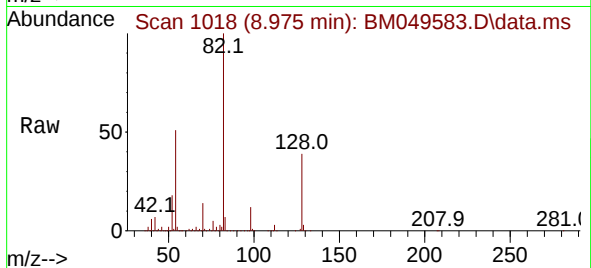
Tgt Ion: 82 Resp: 839145

Ion Ratio Lower Upper

82 100

128 38.8 31.6 47.4

54 50.9 39.4 59.0



#24

Nitrobenzene

Concen: 14.280 ng

RT: 9.016 min Scan# 1025

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

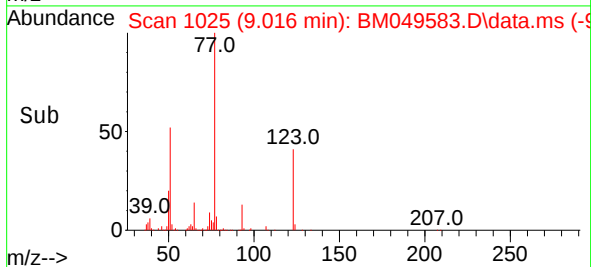
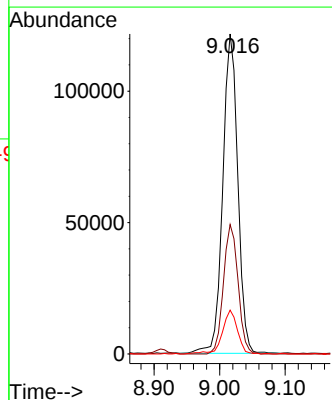
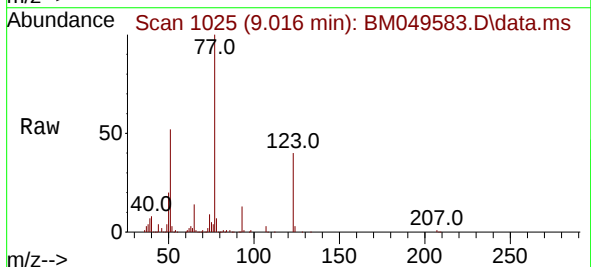
Tgt Ion: 77 Resp: 192647

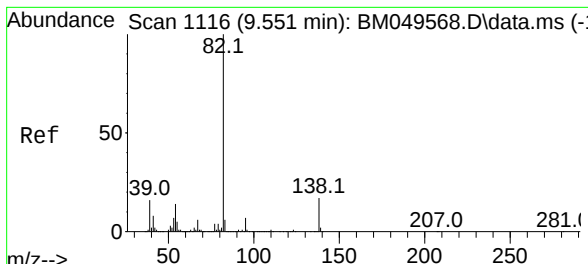
Ion Ratio Lower Upper

77 100

123 40.4 33.4 50.2

65 13.7 10.5 15.7





#25

Isophorone

Concen: 13.599 ng

RT: 9.545 min Scan# 1115

Delta R.T. -0.006 min

Lab File: BM049583.D

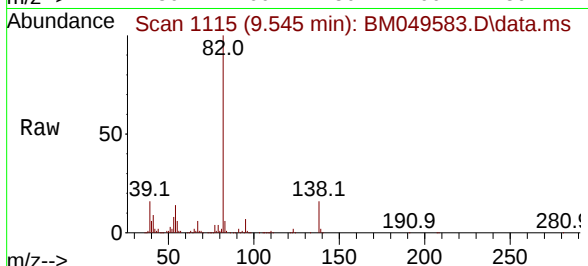
Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025



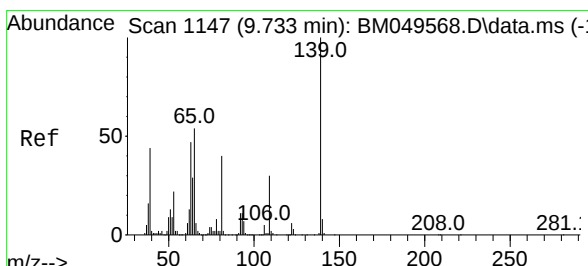
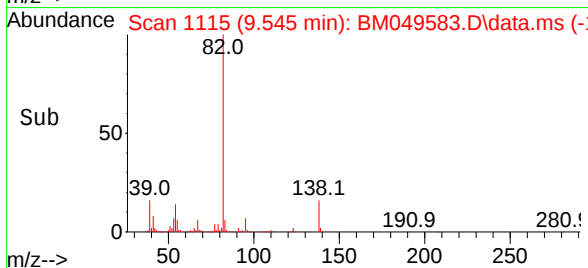
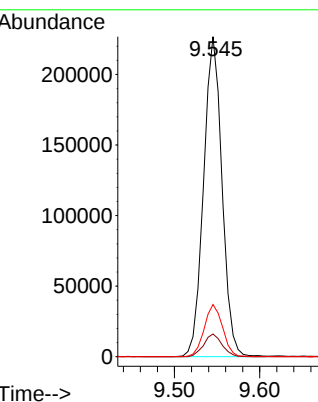
Tgt Ion: 82 Resp: 340553

Ion Ratio Lower Upper

82 100

95 7.1 5.5 8.3

138 16.3 13.6 20.4



#26

2-Nitrophenol

Concen: 10.448 ng

RT: 9.733 min Scan# 1147

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

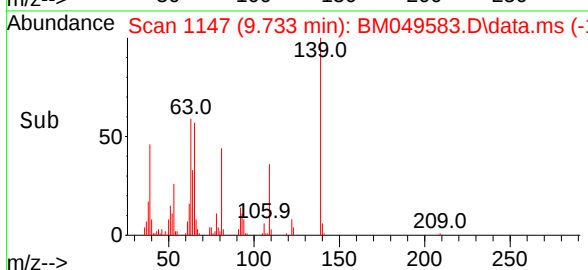
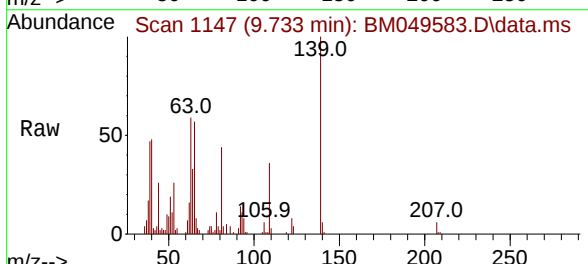
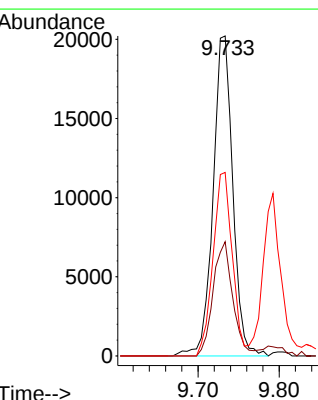
Tgt Ion:139 Resp: 34136

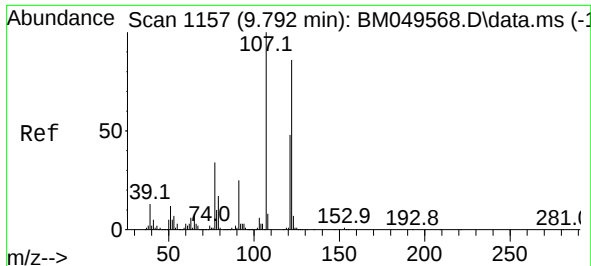
Ion Ratio Lower Upper

139 100

109 35.7 24.2 36.2

65 57.4 43.4 65.2

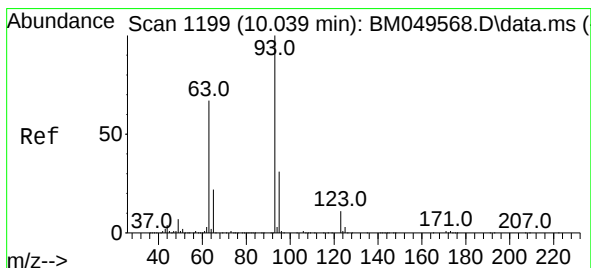
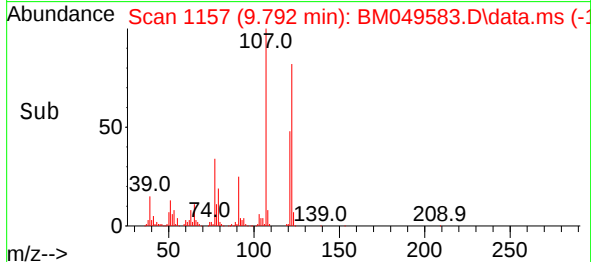
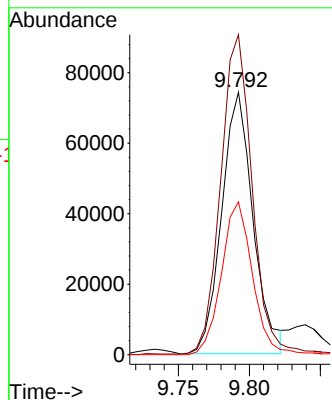
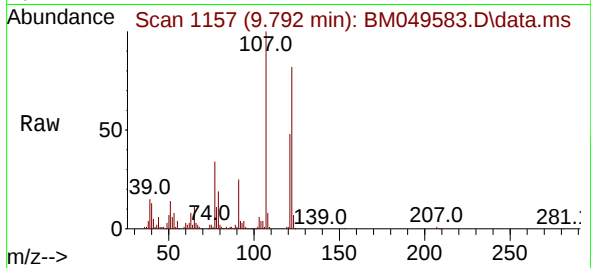




#27  
2,4-Dimethylphenol  
Concen: 14.372 ng  
RT: 9.792 min Scan# 1157  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

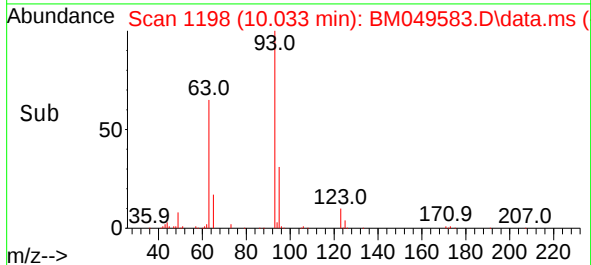
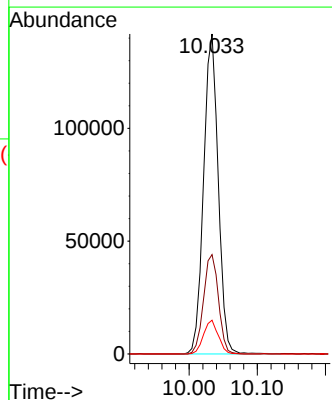
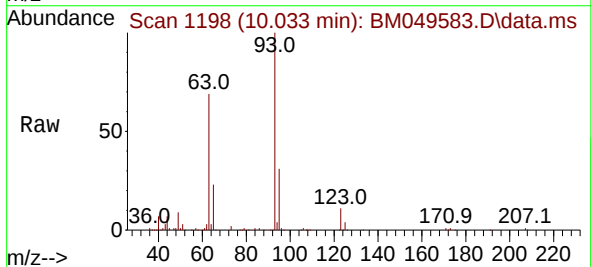
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

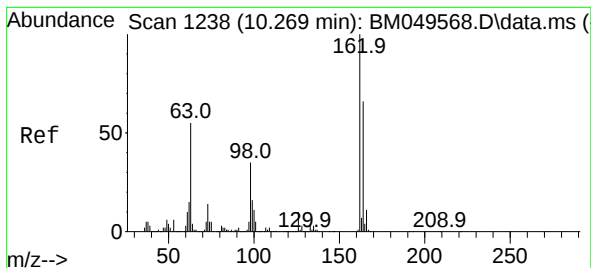
Tgt Ion:122 Resp: 113803  
Ion Ratio Lower Upper  
122 100  
107 122.0 93.2 139.8  
121 58.3 44.4 66.6



#28  
bis(2-Chloroethoxy)methane  
Concen: 13.103 ng  
RT: 10.033 min Scan# 1198  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion: 93 Resp: 211339  
Ion Ratio Lower Upper  
93 100  
95 31.1 25.2 37.8  
123 10.6 8.6 12.8





#29

2,4-Dichlorophenol

Concen: 11.218 ng

RT: 10.263 min Scan# 1237

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

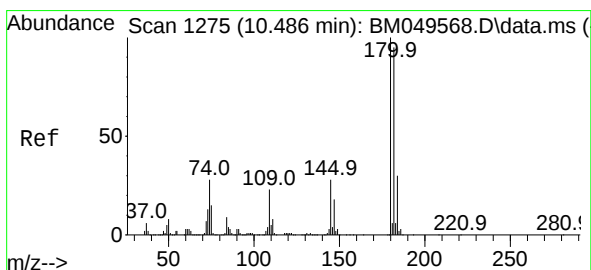
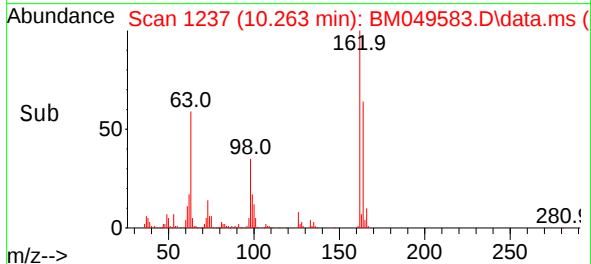
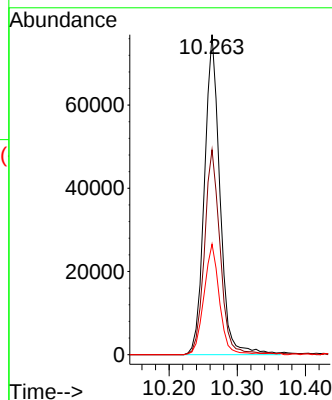
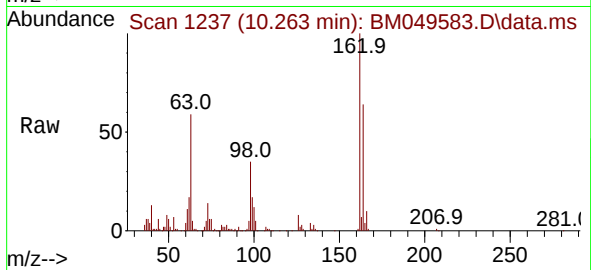
Tgt Ion:162 Resp: 122328

Ion Ratio Lower Upper

162 100

164 64.1 46.0 86.0

98 34.5 14.7 54.7



#30

1,2,4-Trichlorobenzene

Concen: 12.830 ng

RT: 10.486 min Scan# 1275

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

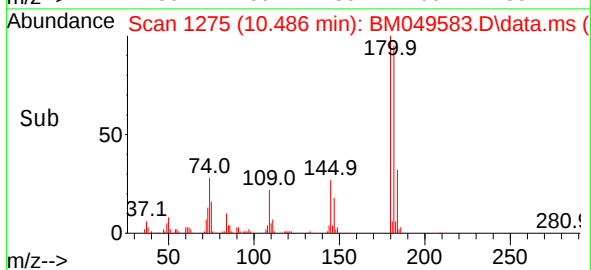
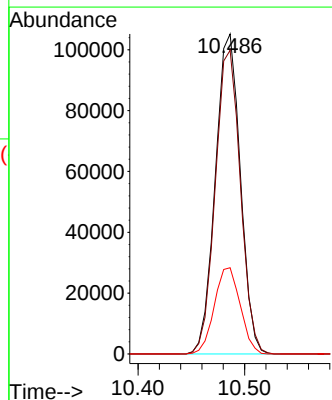
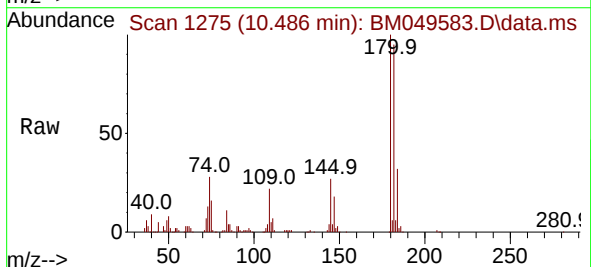
Tgt Ion:180 Resp: 171400

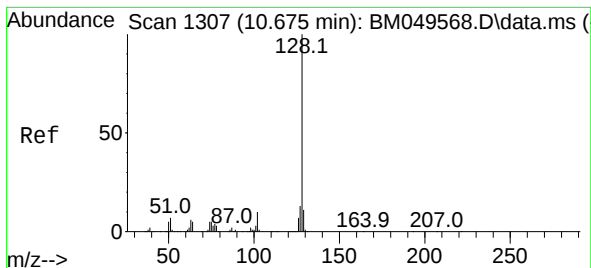
Ion Ratio Lower Upper

180 100

182 94.9 76.4 114.6

145 26.9 22.5 33.7





#31

Naphthalene

Concen: 12.657 ng

RT: 10.669 min Scan# 1157

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

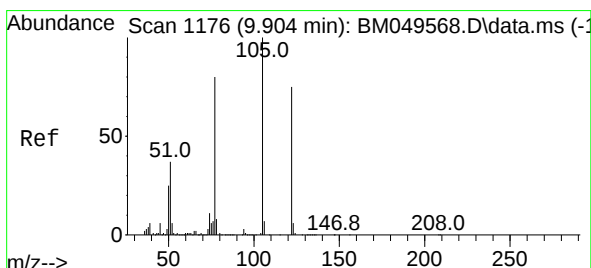
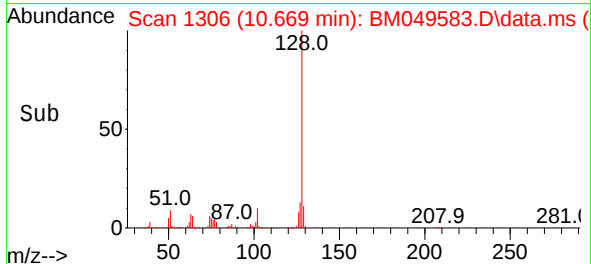
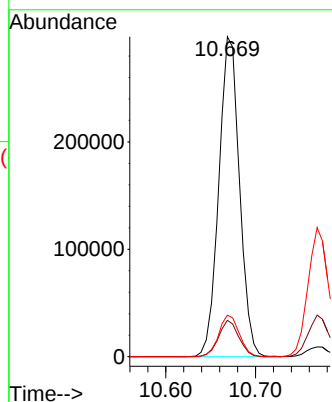
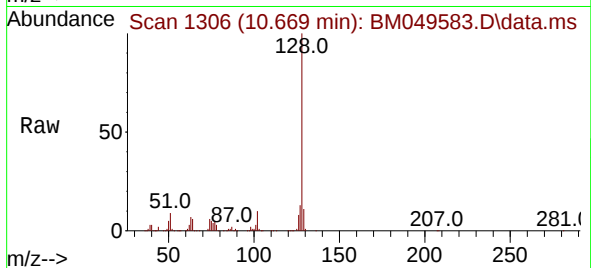
Tgt Ion:128 Resp: 476788

Ion Ratio Lower Upper

128 100

129 11.3 9.0 13.4

127 12.9 10.6 15.8



#32

Benzoic acid

Concen: 29.083 ng

RT: 9.792 min Scan# 1157

Delta R.T. -0.112 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

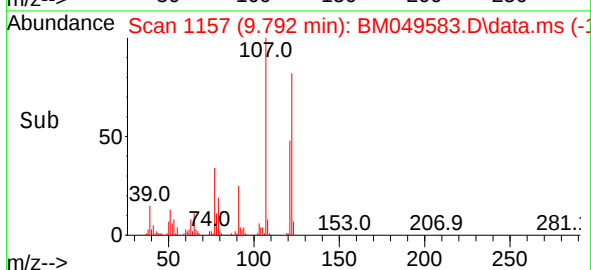
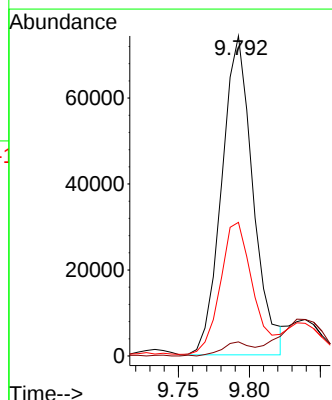
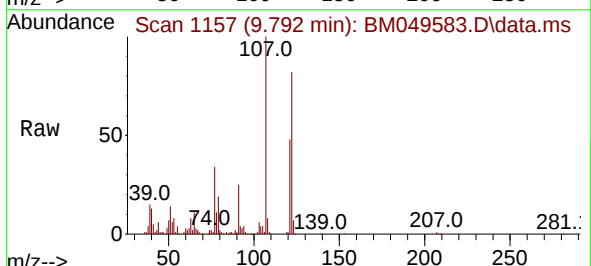
Tgt Ion:122 Resp: 113803

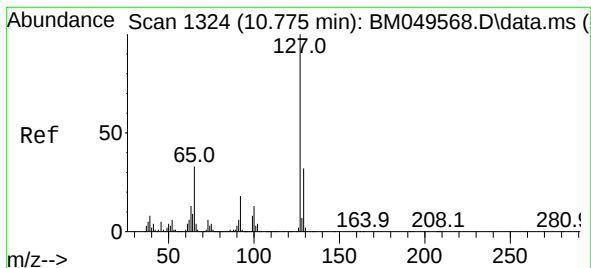
Ion Ratio Lower Upper

122 100

105 4.4 103.6 143.6#

77 41.7 82.4 122.4#





#33

4-Chloroaniline

Concen: 13.698 ng

RT: 10.769 min Scan# 1323

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

Tgt Ion:127 Resp: 193133

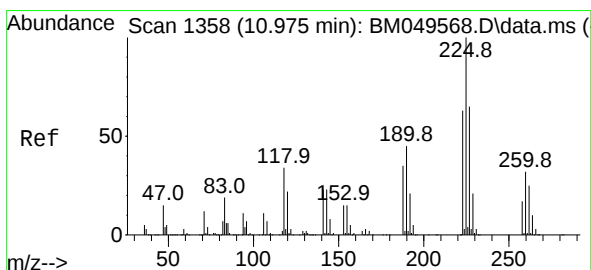
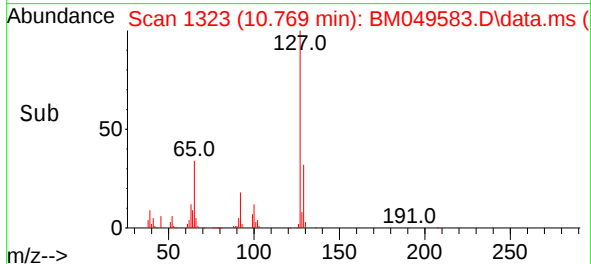
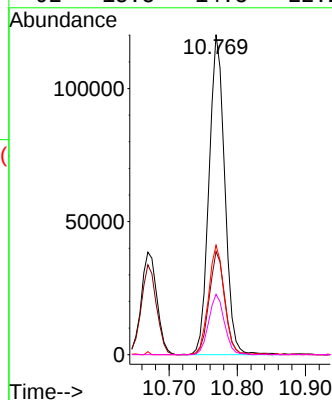
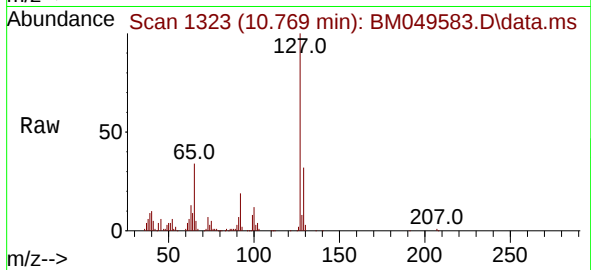
Ion Ratio Lower Upper

127 100

129 32.3 25.8 38.8

65 34.2 26.4 39.6

92 18.8 14.8 22.2



#34

Hexachlorobutadiene

Concen: 13.160 ng

RT: 10.969 min Scan# 1357

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

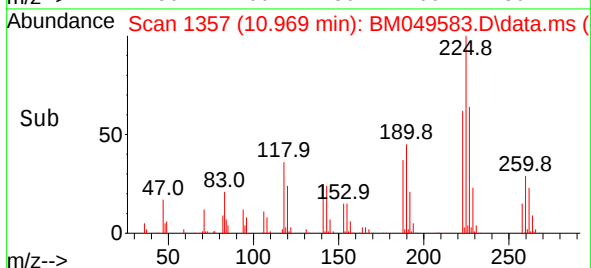
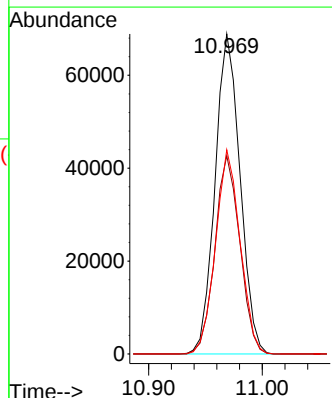
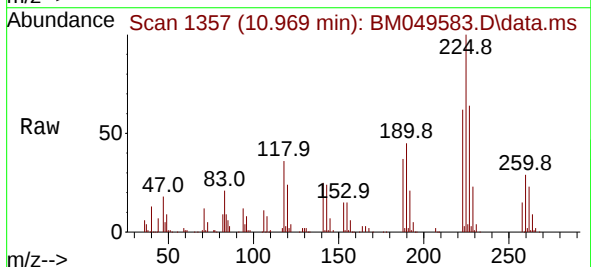
Tgt Ion:225 Resp: 105284

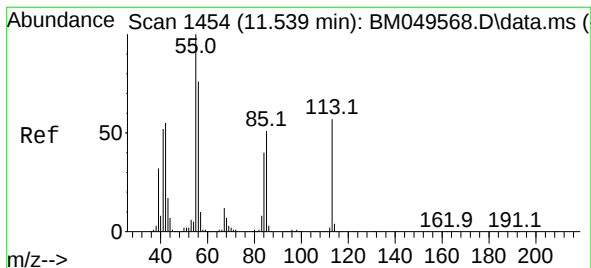
Ion Ratio Lower Upper

225 100

223 61.9 50.6 75.8

227 63.8 51.8 77.6





#35

Caprolactam

Concen: 5.887 ng

RT: 11.516 min Scan# 1450

Delta R.T. -0.024 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

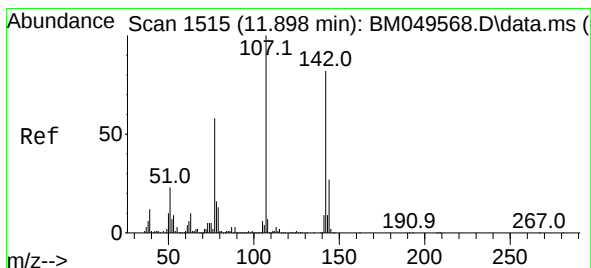
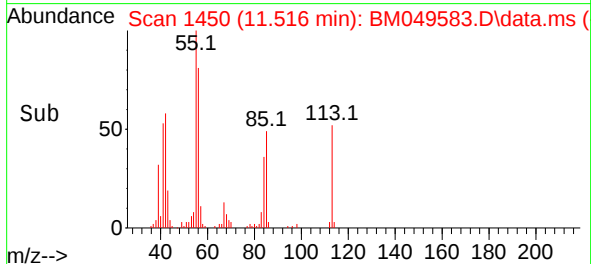
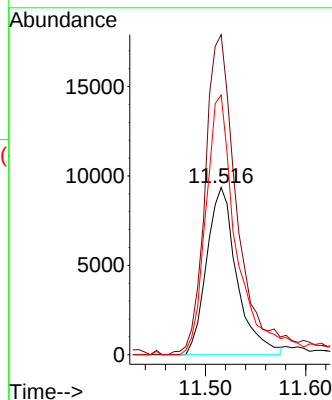
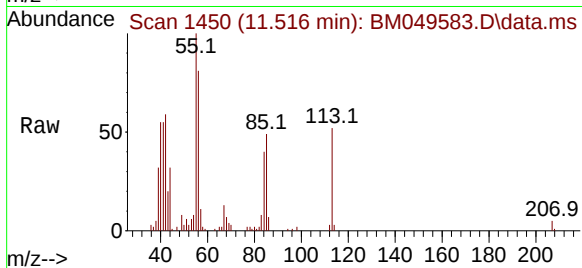
Tgt Ion:113 Resp: 19583

Ion Ratio Lower Upper

113 100

55 191.4 157.5 197.5

56 155.3 114.6 154.6#



#36

4-Chloro-3-methylphenol

Concen: 10.658 ng

RT: 11.892 min Scan# 1514

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

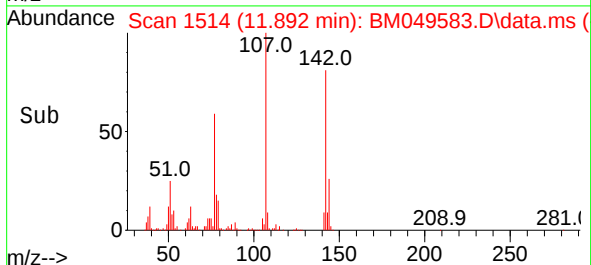
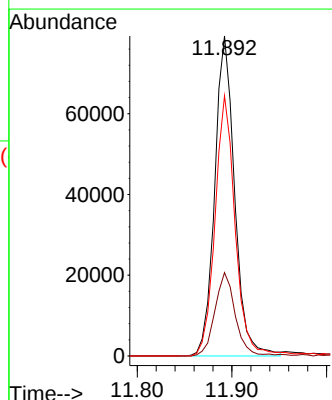
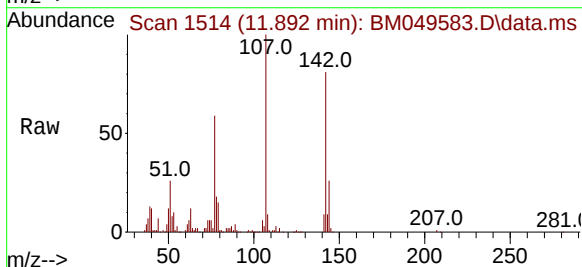
Tgt Ion:107 Resp: 115902

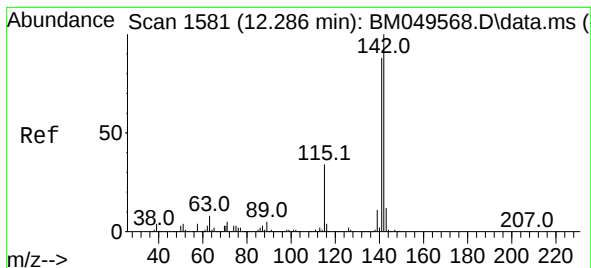
Ion Ratio Lower Upper

107 100

144 26.0 21.2 31.8

142 81.3 65.4 98.2

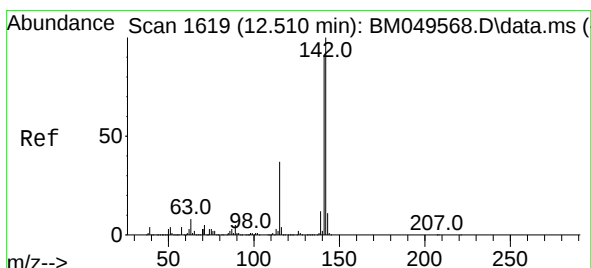
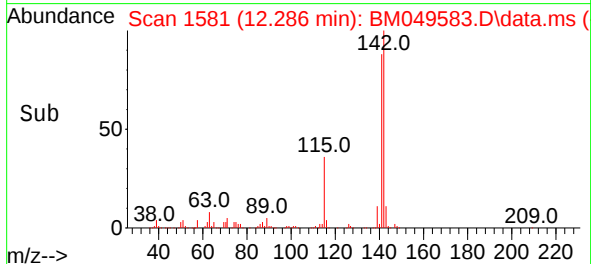
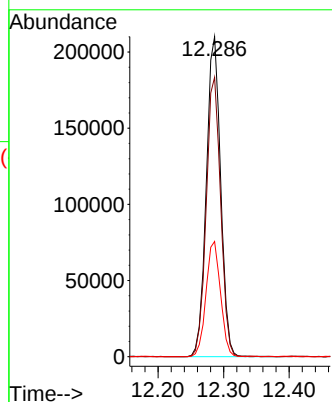
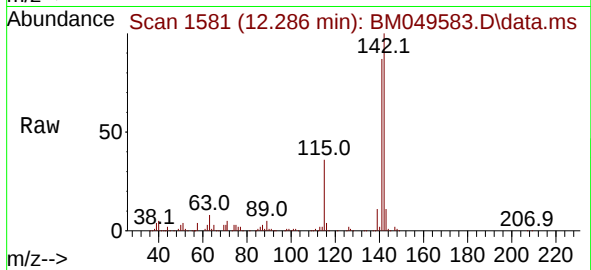




#37  
2-Methylnaphthalene  
Concen: 12.042 ng  
RT: 12.286 min Scan# 1581  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

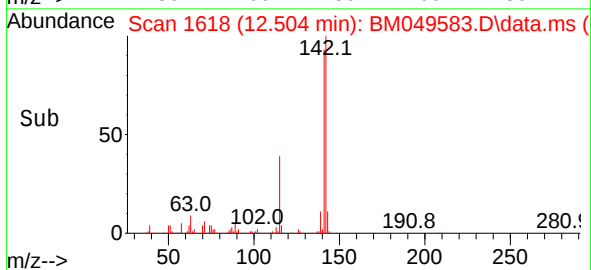
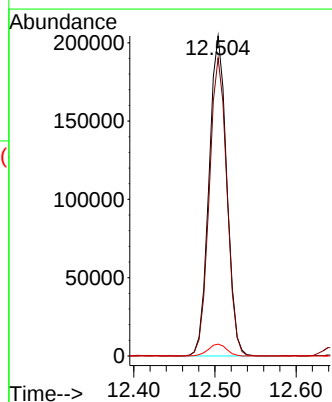
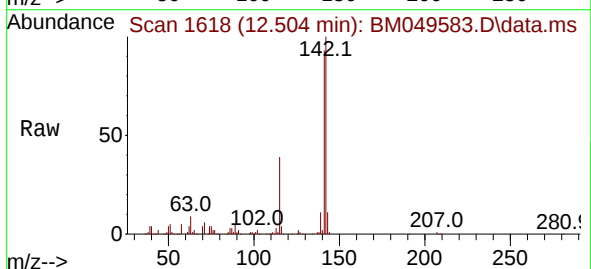
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

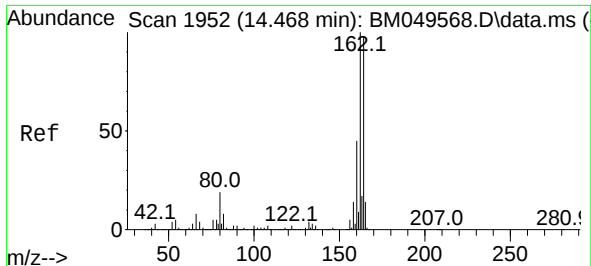
Tgt Ion:142 Resp: 319388  
Ion Ratio Lower Upper  
142 100  
141 87.3 70.2 105.4  
115 36.0 27.5 41.3



#38  
1-Methylnaphthalene  
Concen: 12.008 ng  
RT: 12.504 min Scan# 1618  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion:142 Resp: 309870  
Ion Ratio Lower Upper  
142 100  
141 93.2 73.1 109.7  
116 3.7 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.463 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

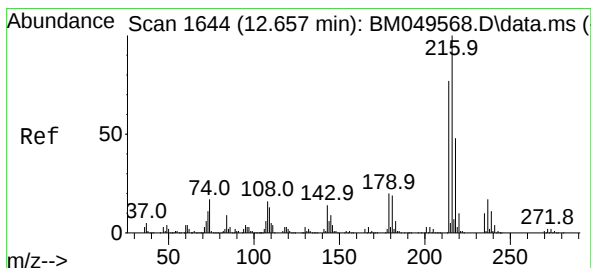
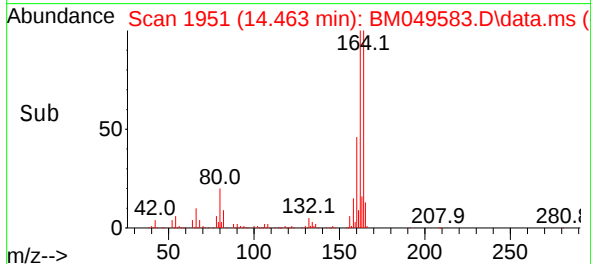
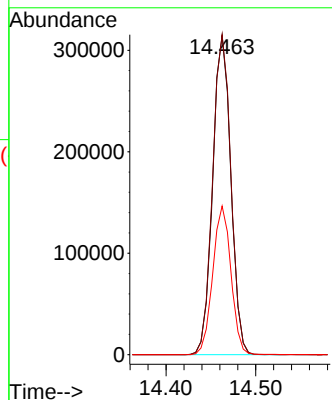
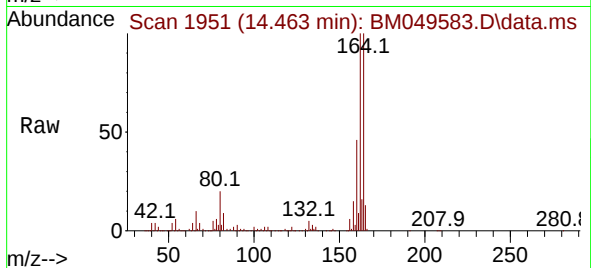
Tgt Ion:164 Resp: 441066

Ion Ratio Lower Upper

164 100

162 100.3 81.4 122.0

160 46.6 36.2 54.4



#40

1,2,4,5-Tetrachlorobenzene

Concen: 8.195 ng

RT: 12.651 min Scan# 1643

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Tgt Ion:216 Resp: 118841

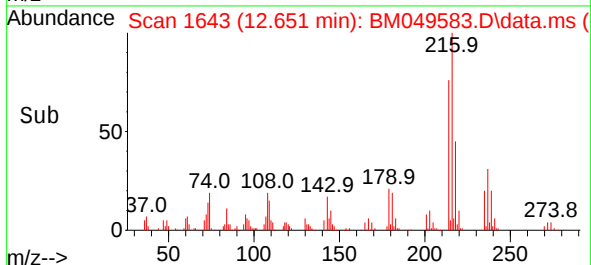
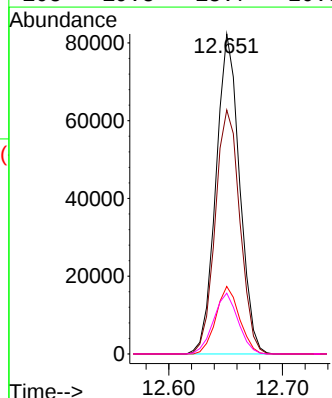
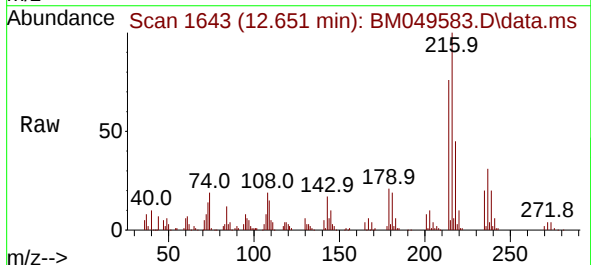
Ion Ratio Lower Upper

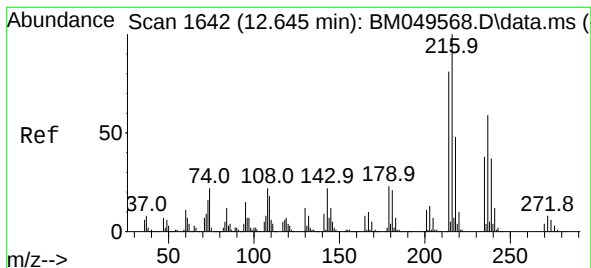
216 100

214 79.7 62.4 93.6

179 21.0 16.3 24.5

108 19.8 13.7 20.5





#41

Hexachlorocyclopentadiene

Concen: 13.682 ng

RT: 12.645 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

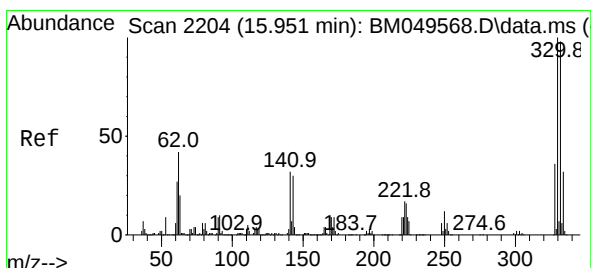
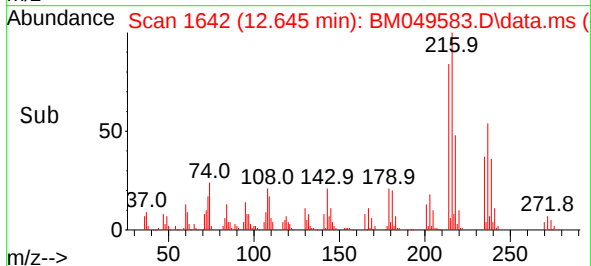
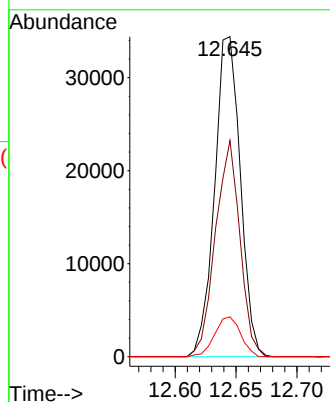
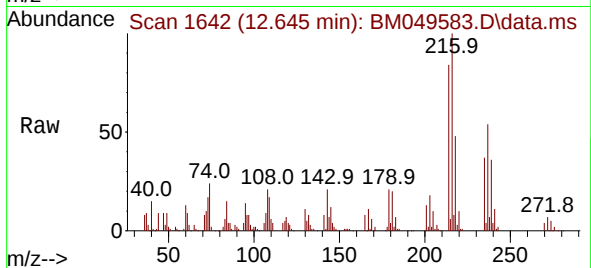
Tgt Ion:237 Resp: 50653

Ion Ratio Lower Upper

237 100

235 67.6 43.8 83.8

272 12.5 0.0 33.5



#42

2,4,6-Tribromophenol

Concen: 50.686 ng

RT: 15.945 min Scan# 2203

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

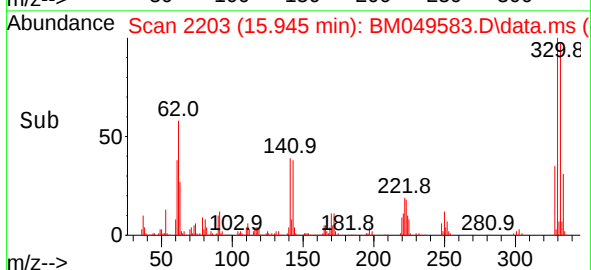
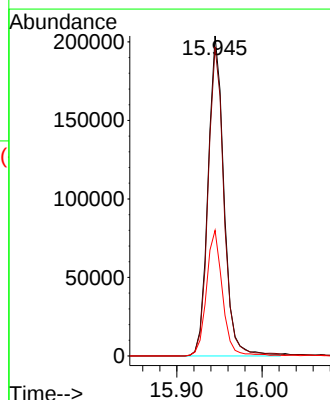
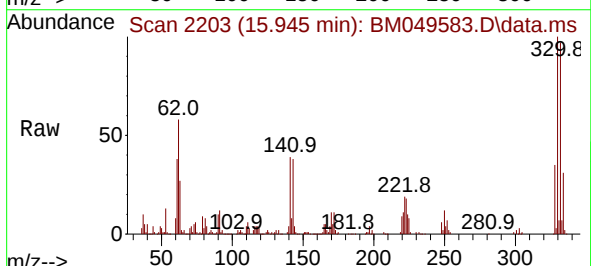
Tgt Ion:330 Resp: 264898

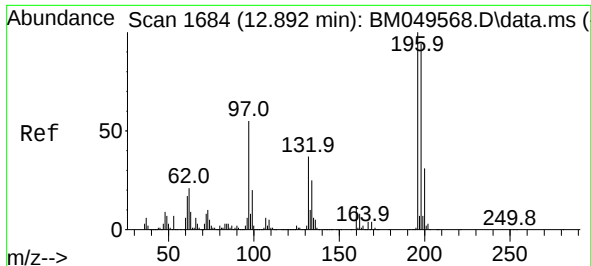
Ion Ratio Lower Upper

330 100

332 96.5 77.3 115.9

141 39.5 28.2 42.2





#43

2,4,6-Trichlorophenol

Concen: 10.430 ng

RT: 12.892 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

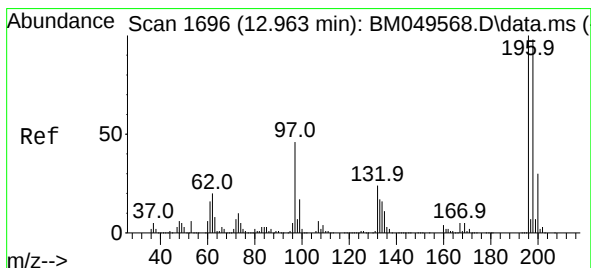
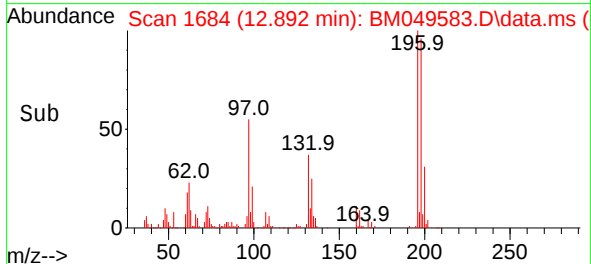
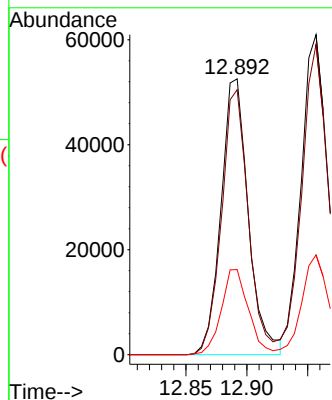
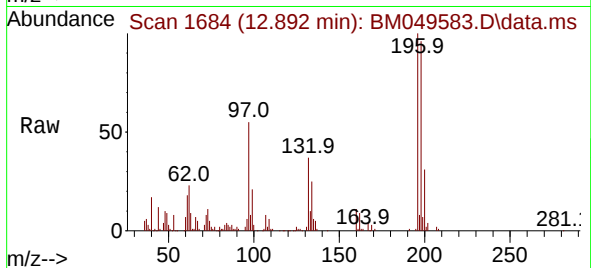
Tgt Ion:196 Resp: 82533

Ion Ratio Lower Upper

196 100

198 96.0 75.4 113.0

200 30.9 25.1 37.7



#44

2,4,5-Trichlorophenol

Concen: 11.094 ng

RT: 12.957 min Scan# 1695

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Tgt Ion:196 Resp: 96478

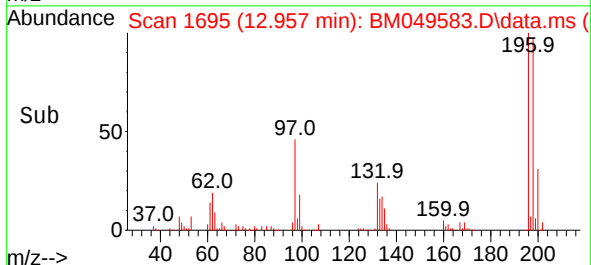
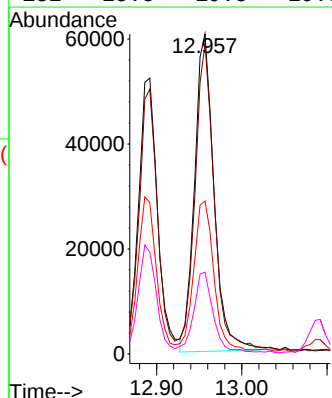
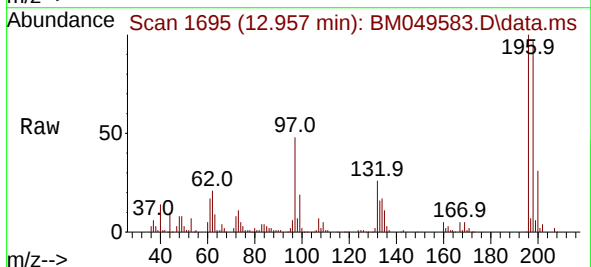
Ion Ratio Lower Upper

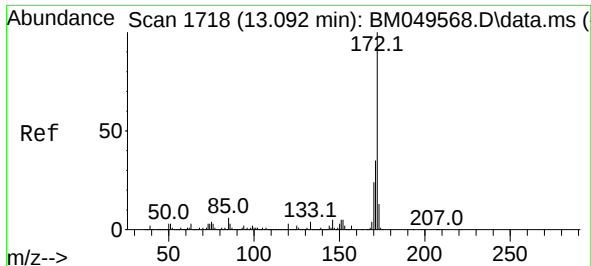
196 100

198 96.9 78.4 117.6

97 47.8 37.4 56.0

132 25.5 19.5 29.3





#45

2-Fluorobiphenyl

Concen: 57.257 ng

RT: 13.092 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

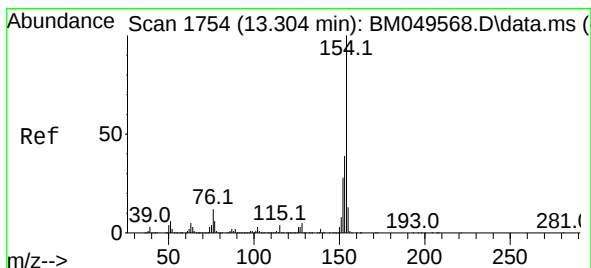
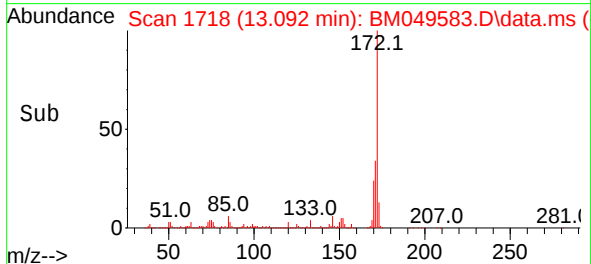
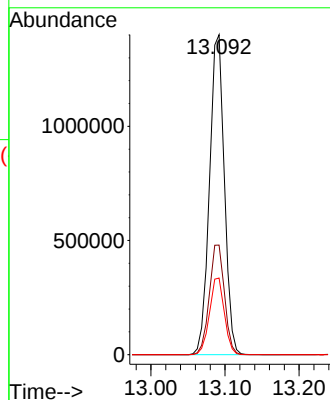
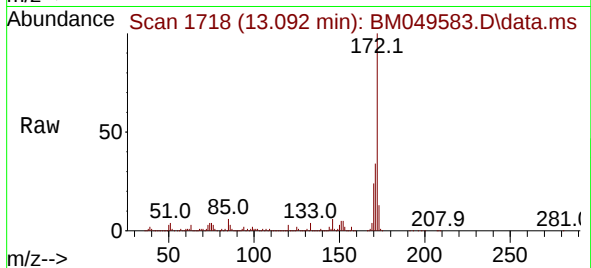
Tgt Ion:172 Resp: 1949454

Ion Ratio Lower Upper

172 100

171 34.2 28.0 42.0

170 23.9 19.0 28.4



#46

1,1'-Biphenyl

Concen: 8.305 ng

RT: 13.298 min Scan# 1753

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

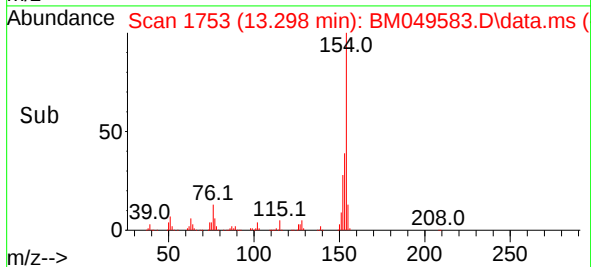
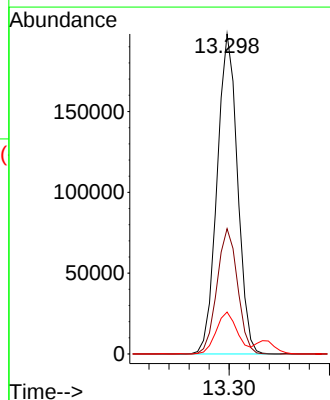
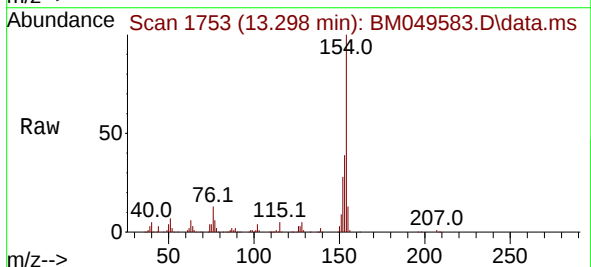
Tgt Ion:154 Resp: 279431

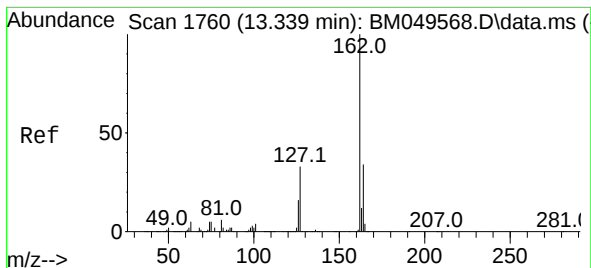
Ion Ratio Lower Upper

154 100

153 39.1 19.5 59.5

76 13.1 0.0 32.1





#47

2-Chloronaphthalene

Concen: 13.035 ng

RT: 13.333 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

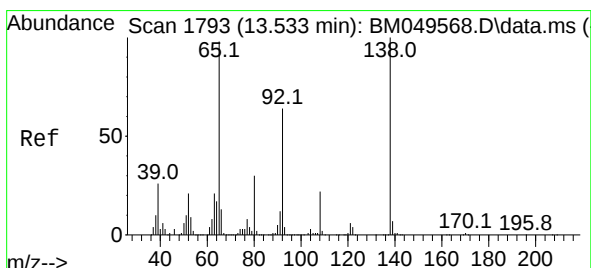
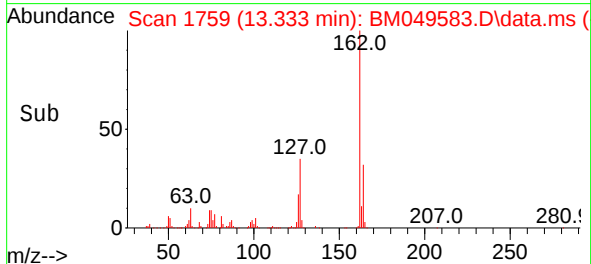
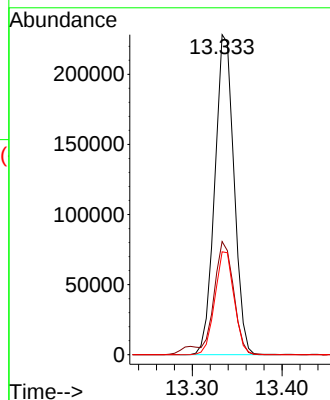
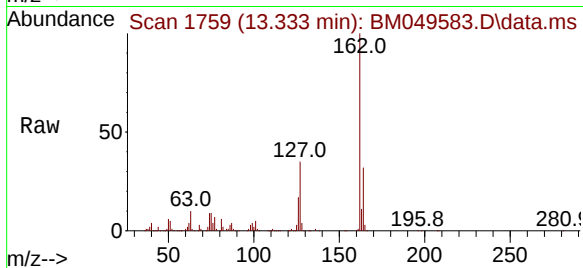
Tgt Ion:162 Resp: 339331

Ion Ratio Lower Upper

162 100

127 35.4 27.9 41.9

164 32.2 26.8 40.2



#48

2-Nitroaniline

Concen: 11.935 ng

RT: 13.527 min Scan# 1792

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

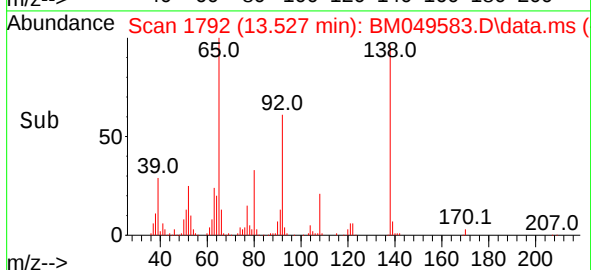
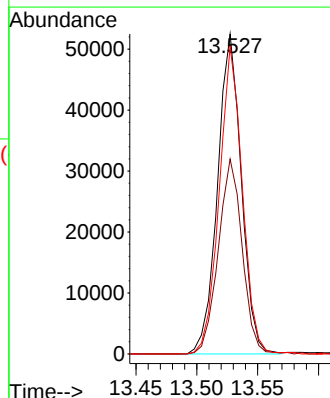
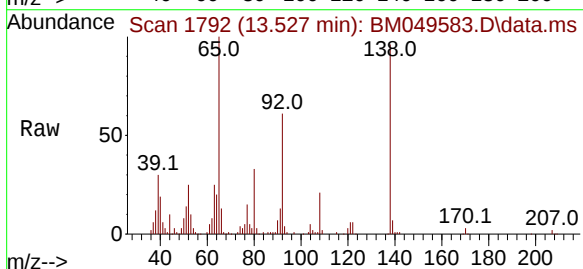
Tgt Ion: 65 Resp: 71295

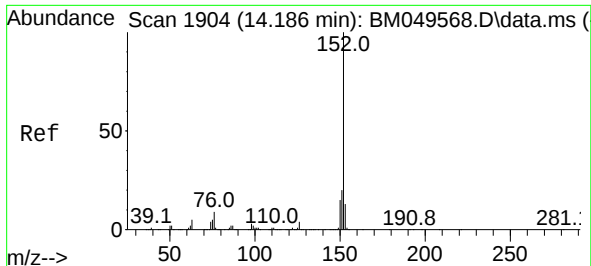
Ion Ratio Lower Upper

65 100

92 60.9 52.0 78.0

138 96.3 81.6 122.4

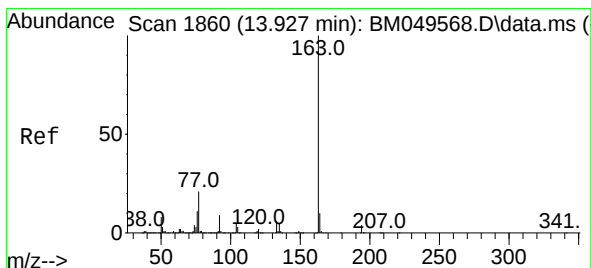
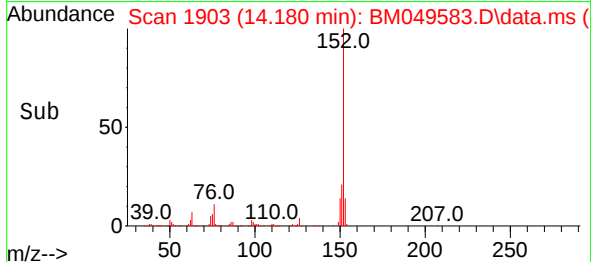
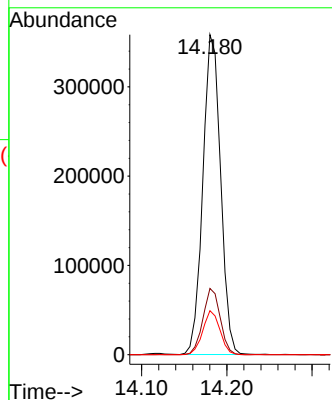
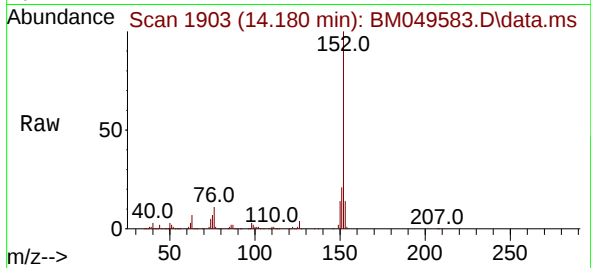




#49  
Acenaphthylene  
Concen: 13.509 ng  
RT: 14.180 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

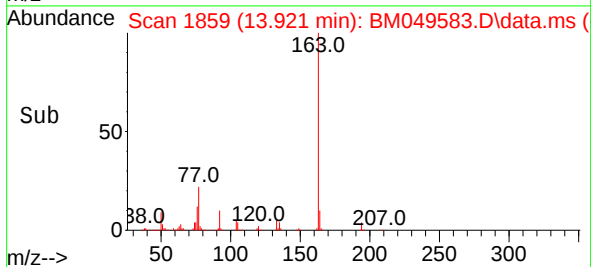
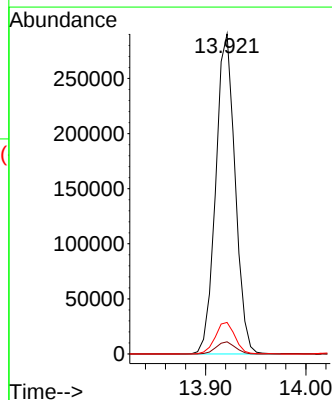
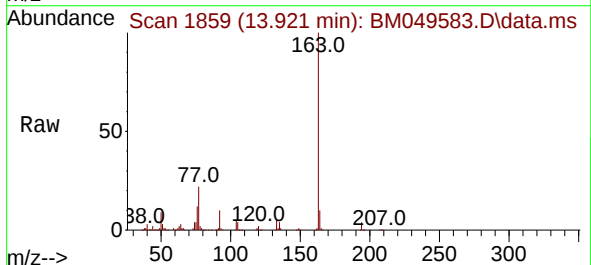
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

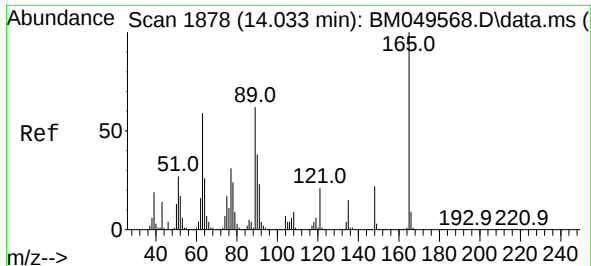
Tgt Ion:152 Resp: 518561  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.2 24.4  
153 13.7 10.6 16.0



#50  
Dimethylphthalate  
Concen: 12.292 ng  
RT: 13.921 min Scan# 1859  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion:163 Resp: 389359  
Ion Ratio Lower Upper  
163 100  
194 3.8 3.3 4.9  
164 9.8 8.1 12.1





#51

2,6-Dinitrotoluene

Concen: 12.447 ng

RT: 14.027 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

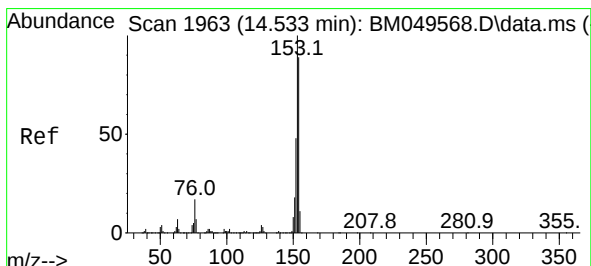
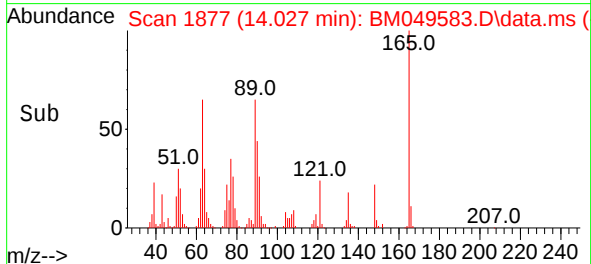
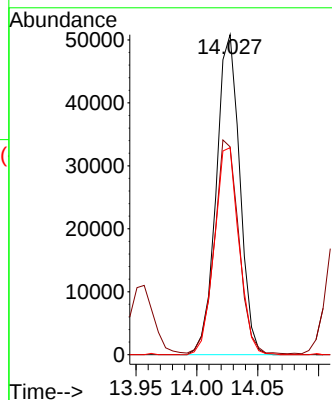
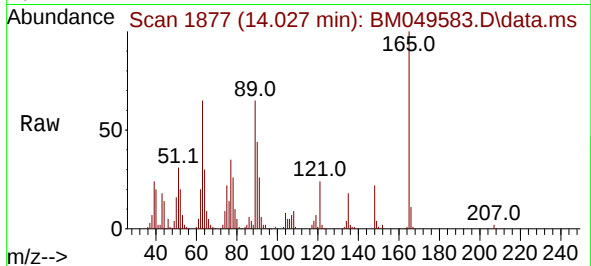
Tgt Ion:165 Resp: 68222

Ion Ratio Lower Upper

165 100

63 65.0 47.8 71.6

89 64.7 49.2 73.8



#52

Acenaphthene

Concen: 12.413 ng

RT: 14.527 min Scan# 1962

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

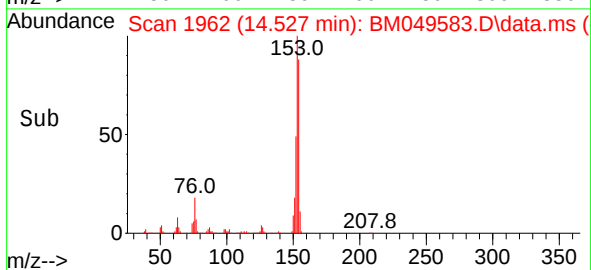
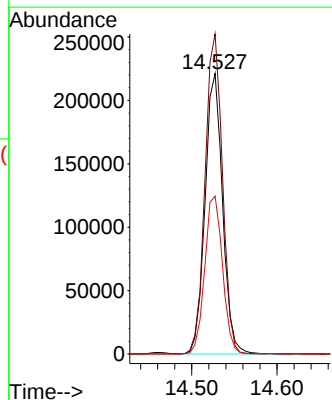
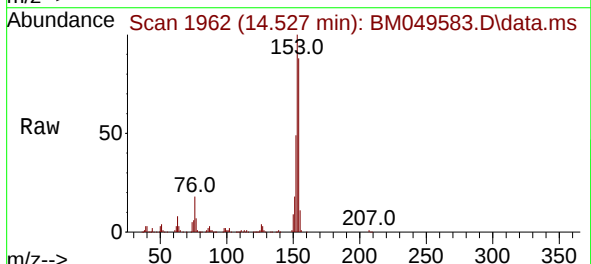
Tgt Ion:154 Resp: 316287

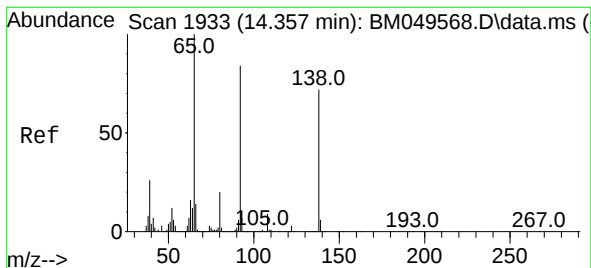
Ion Ratio Lower Upper

154 100

153 114.1 90.0 135.0

152 56.3 43.0 64.4

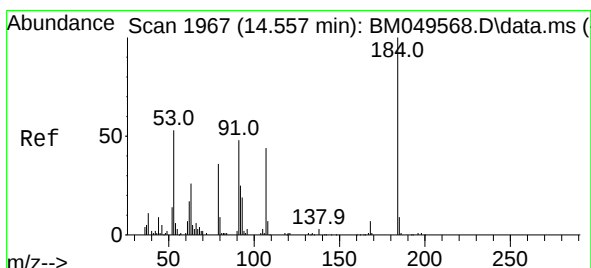
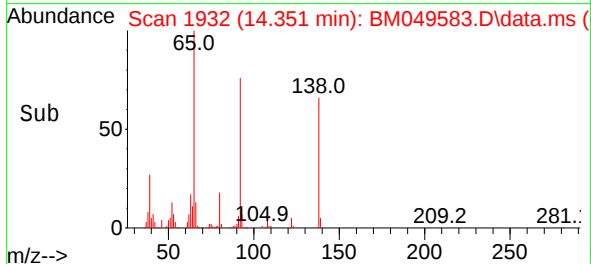
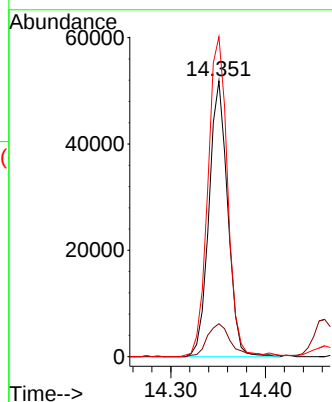
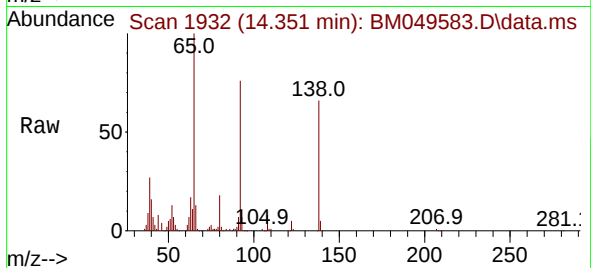




#53  
3-Nitroaniline  
Concen: 12.761 ng  
RT: 14.351 min Scan# 1932  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

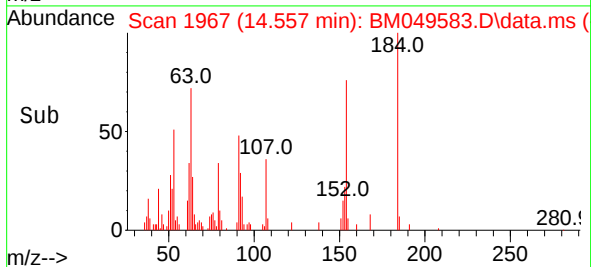
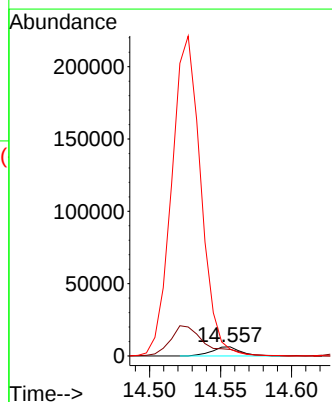
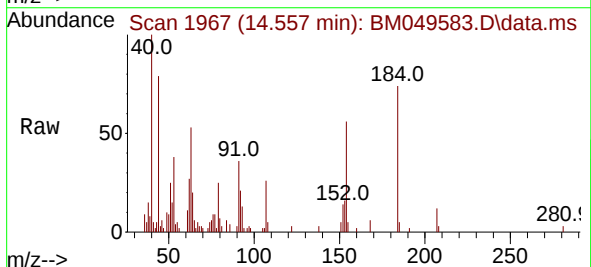
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

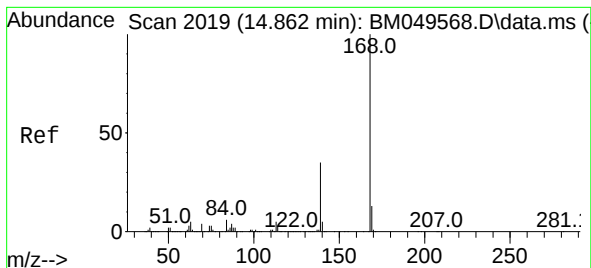
Tgt Ion:138 Resp: 71210  
Ion Ratio Lower Upper  
138 100  
108 11.9 10.3 15.5  
92 116.0 93.6 140.4



#54  
2,4-Dinitrophenol  
Concen: 12.150 ng  
RT: 14.557 min Scan# 1967  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion:184 Resp: 8780  
Ion Ratio Lower Upper  
184 100  
63 71.7 60.2 90.4  
154 75.7 78.2 117.4#





#55

Dibenzofuran

Concen: 12.611 ng

RT: 14.863 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

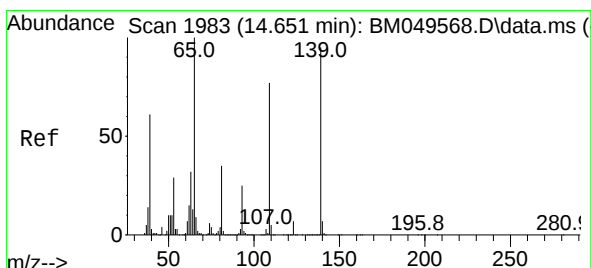
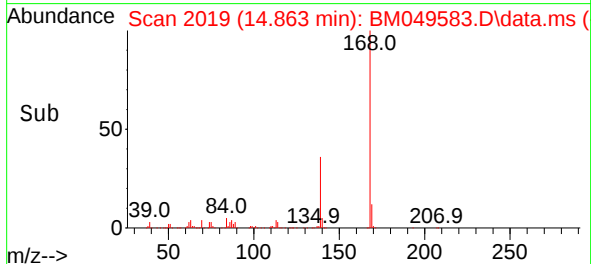
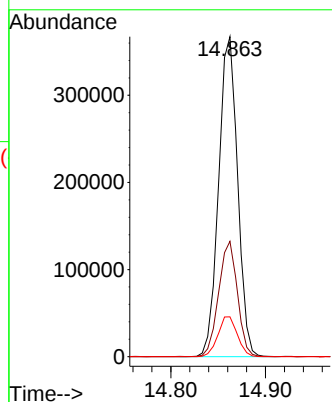
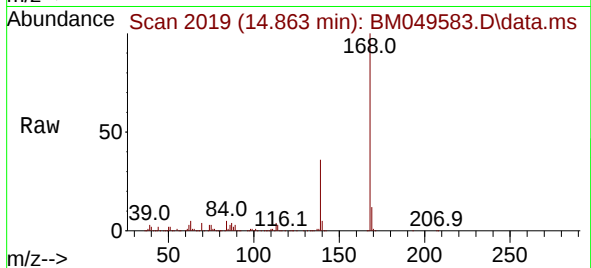
Tgt Ion:168 Resp: 511634

Ion Ratio Lower Upper

168 100

139 36.0 28.4 42.6

169 12.5 10.8 16.2



#56

4-Nitrophenol

Concen: 8.972 ng

RT: 14.651 min Scan# 1983

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

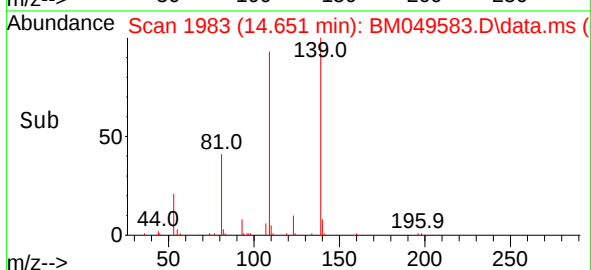
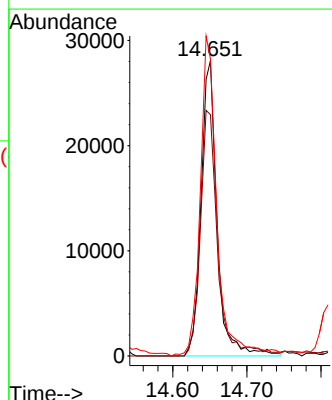
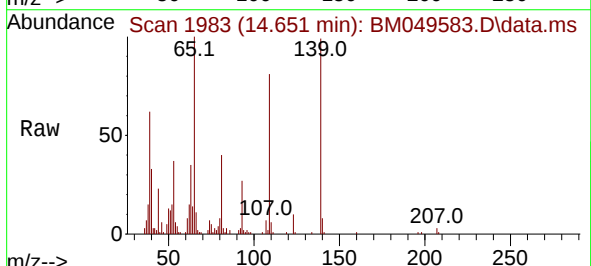
Tgt Ion:139 Resp: 42206

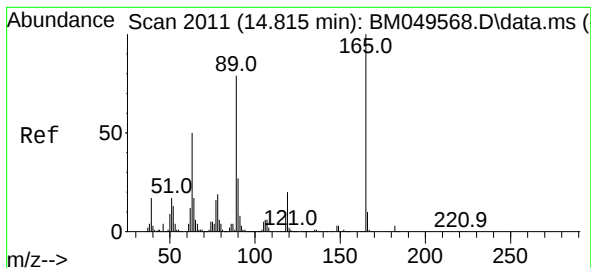
Ion Ratio Lower Upper

139 100

109 81.7 61.4 101.4

65 100.6 85.6 125.6

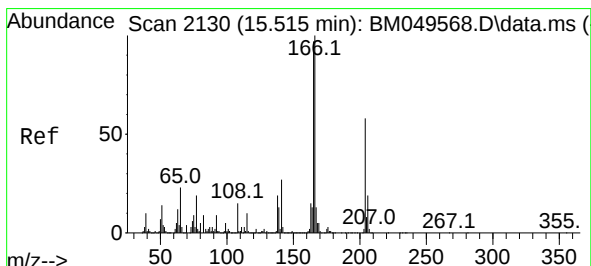
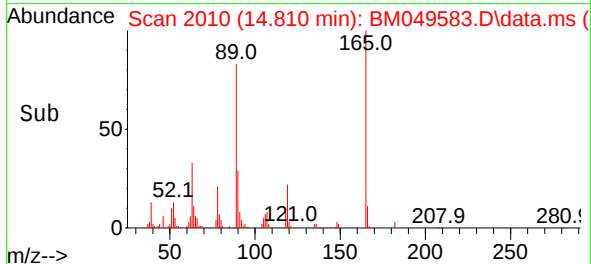
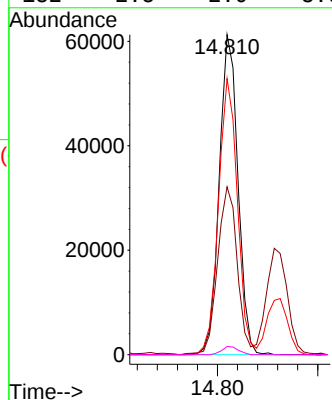
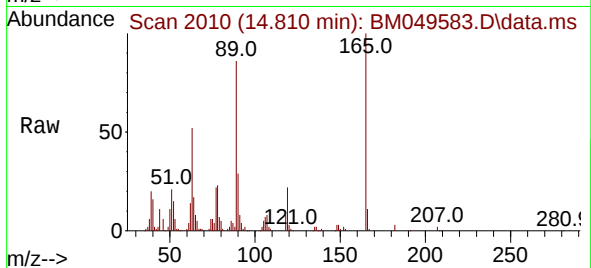




#57  
2,4-Dinitrotoluene  
Concen: 13.957 ng  
RT: 14.810 min Scan# 2011  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

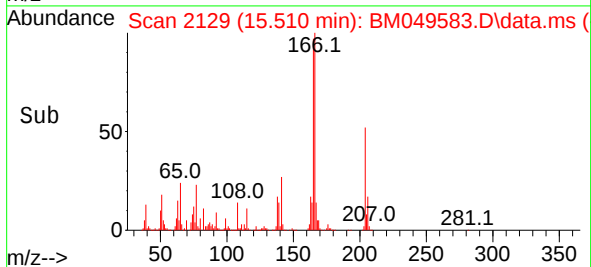
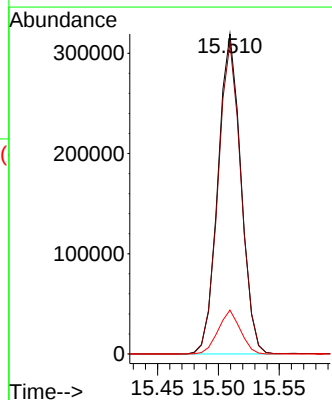
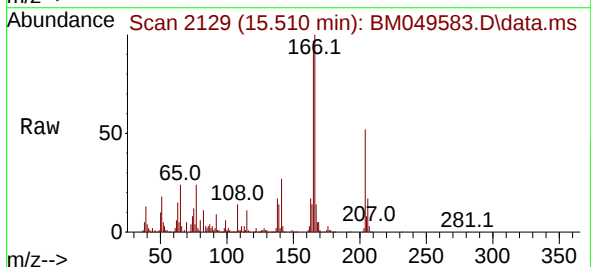
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

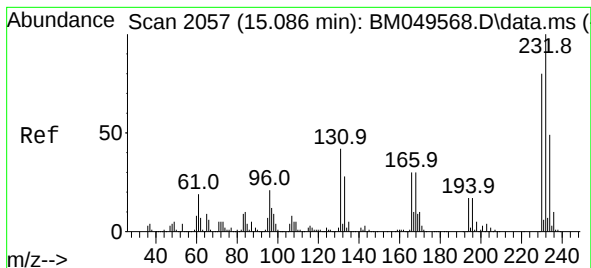
Tgt Ion:165 Resp: 79278  
Ion Ratio Lower Upper  
165 100  
63 52.5 39.8 59.6  
89 86.3 63.5 95.3  
182 2.5 2.0 3.0



#58  
Fluorene  
Concen: 12.071 ng  
RT: 15.510 min Scan# 2129  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion:166 Resp: 418947  
Ion Ratio Lower Upper  
166 100  
165 97.3 77.7 116.5  
167 13.7 10.7 16.1





#59

2,3,4,6-Tetrachlorophenol

Concen: 10.177 ng

RT: 15.086 min Scan# 2057

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

Tgt Ion:232 Resp: 74772

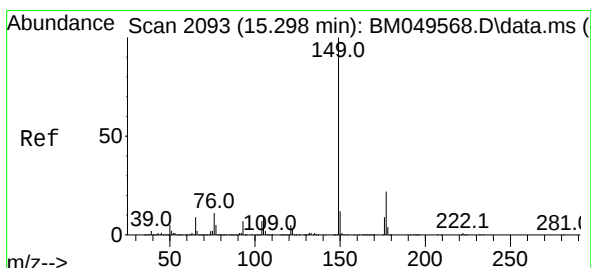
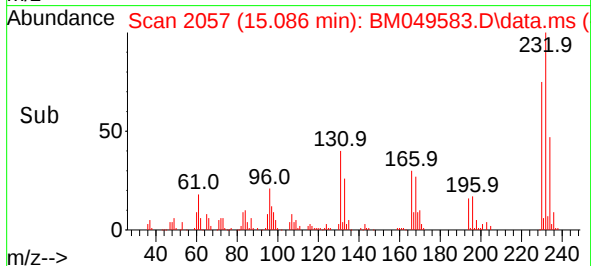
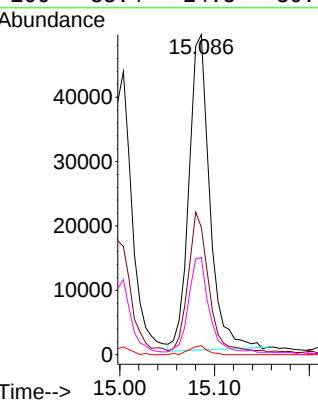
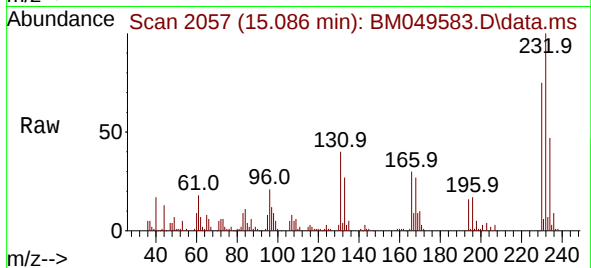
Ion Ratio Lower Upper

232 100

131 45.4 34.5 51.7

130 2.5 1.9 2.9

166 33.4 24.5 36.7



#60

Diethylphthalate

Concen: 11.831 ng

RT: 15.292 min Scan# 2092

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

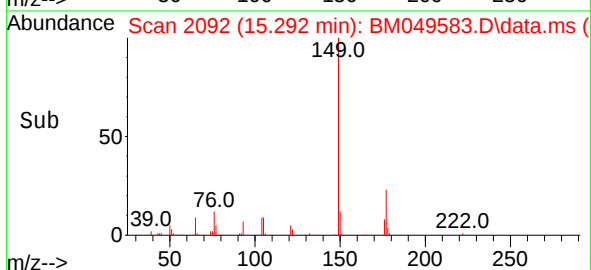
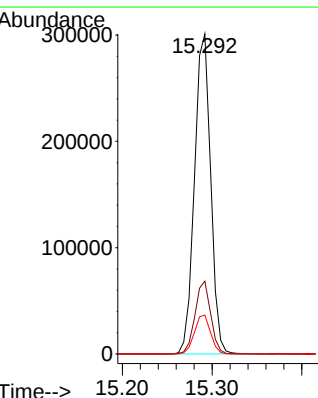
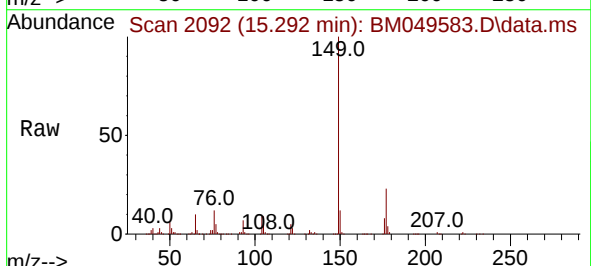
Tgt Ion:149 Resp: 376618

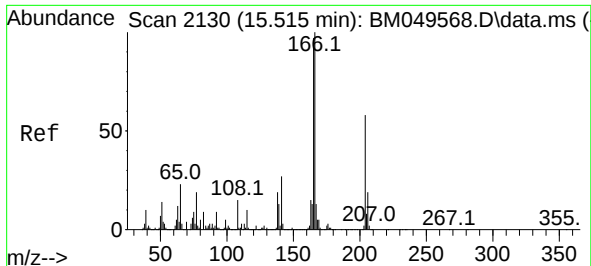
Ion Ratio Lower Upper

149 100

177 22.7 18.0 27.0

150 12.2 9.7 14.5

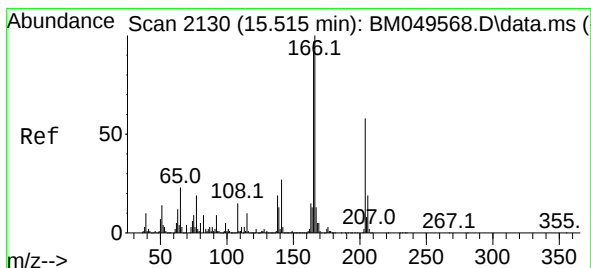
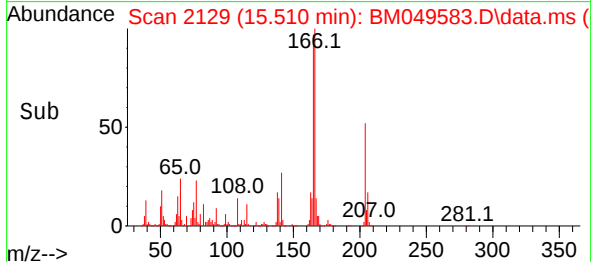
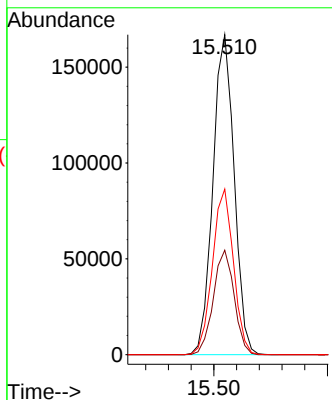
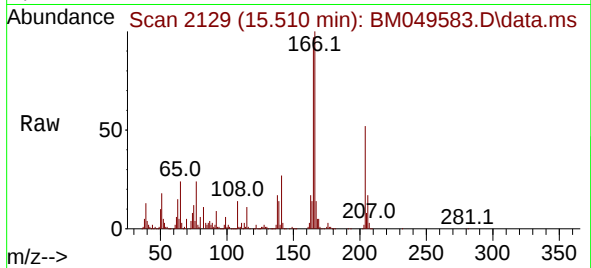




#61  
4-Chlorophenyl-phenylether  
Concen: 11.733 ng  
RT: 15.510 min Scan# 2130  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

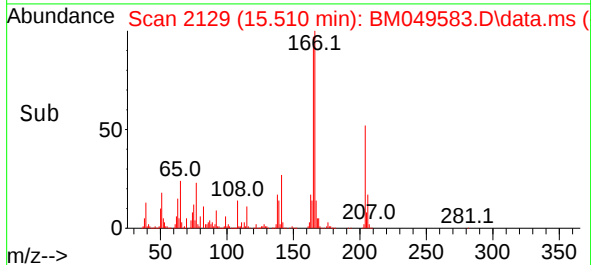
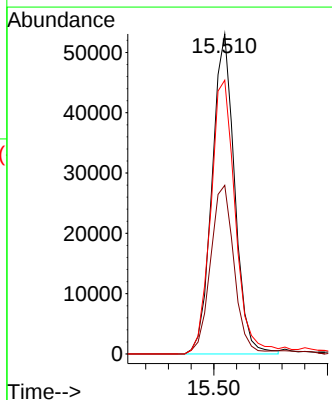
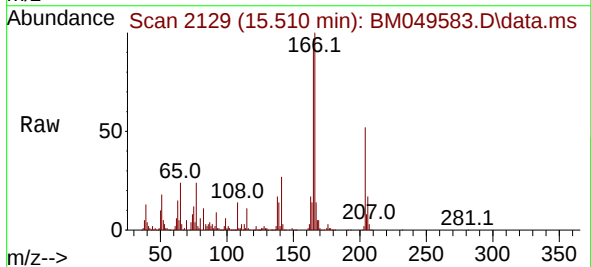
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

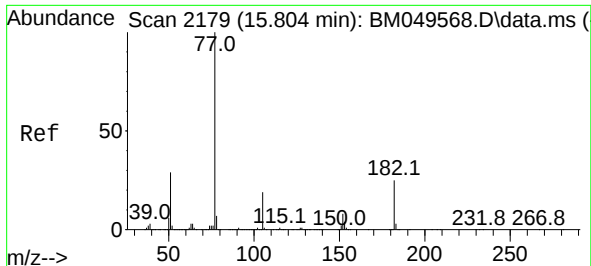
Tgt Ion:204 Resp: 216735  
Ion Ratio Lower Upper  
204 100  
206 32.6 26.0 39.0  
141 51.7 37.1 55.7



#62  
4-Nitroaniline  
Concen: 11.732 ng  
RT: 15.510 min Scan# 2129  
Delta R.T. -0.005 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion:138 Resp: 73323  
Ion Ratio Lower Upper  
138 100  
92 52.7 29.3 69.3  
108 85.6 60.1 100.1

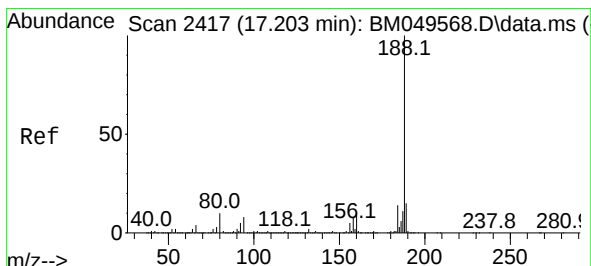
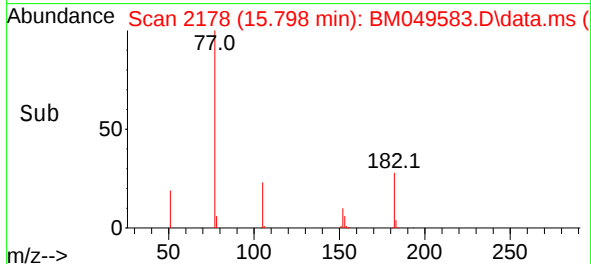
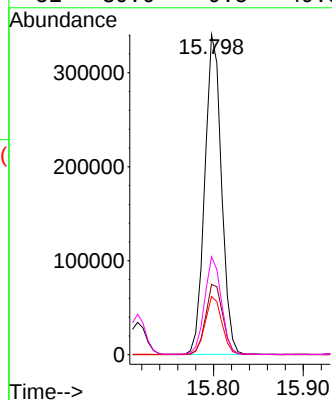
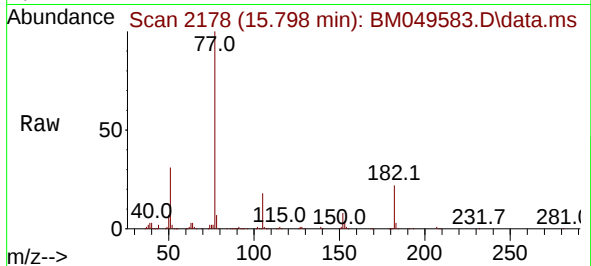




#63  
Azobenzene  
Concen: 13.225 ng  
RT: 15.798 min Scan# 2178  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

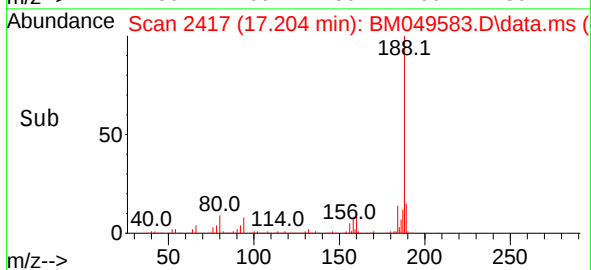
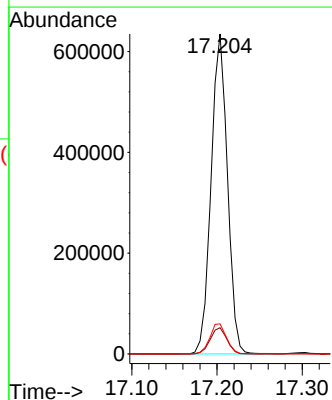
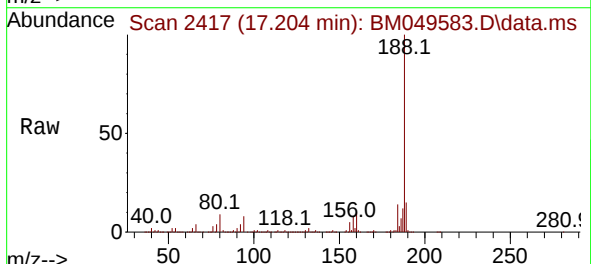
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

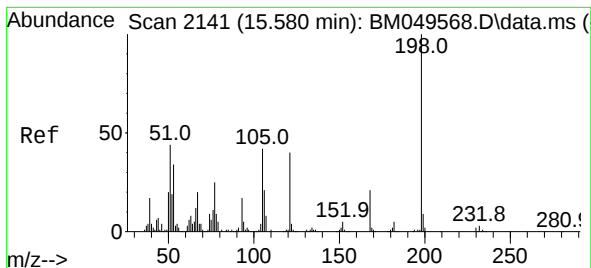
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 439425 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 182       | 21.9  | 4.7   | 44.7   |
| 105       | 18.1  | 0.0   | 39.3   |
| 51        | 30.6  | 9.5   | 49.5   |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.204 min Scan# 2417  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 846227 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.2   | 6.7   | 10.1   |
| 80        | 9.4   | 7.7   | 11.5   |

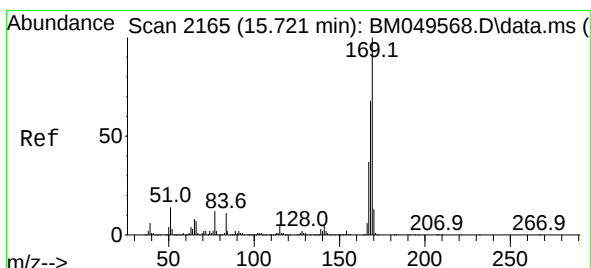
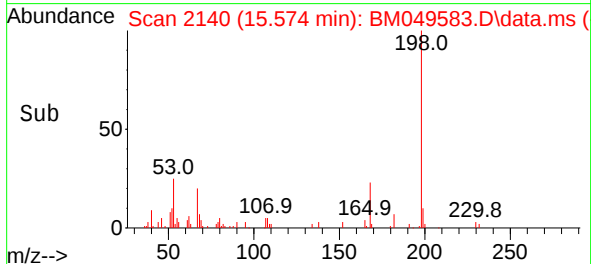
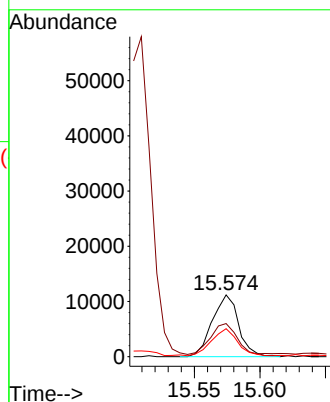
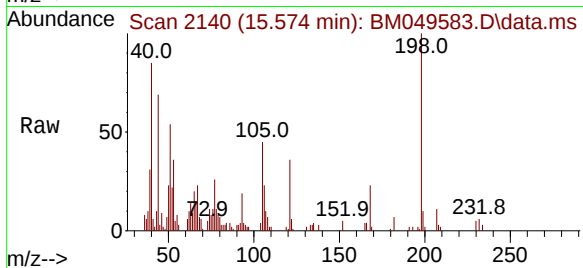




#65  
4,6-Dinitro-2-methylphenol  
Concen: 12.372 ng  
RT: 15.574 min Scan# 2141  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

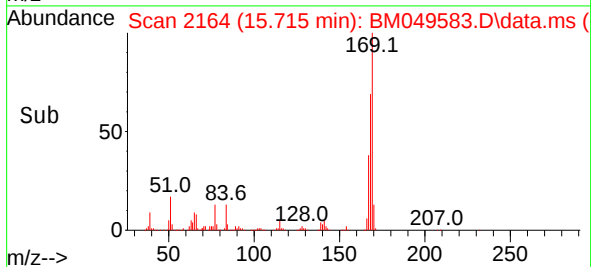
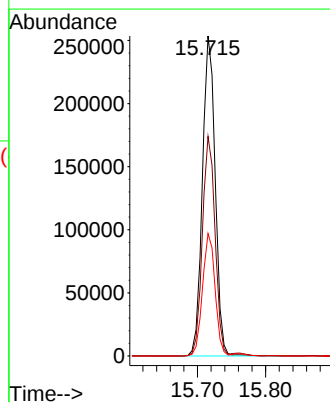
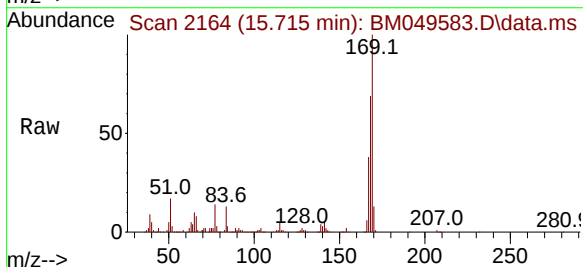
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

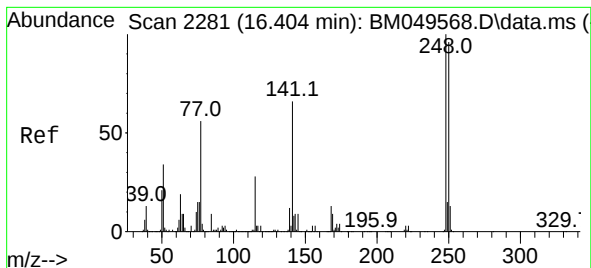
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 53.7  | 26.9  | 66.9  |
| 105     | 45.4  | 22.8  | 62.8  |



#66  
n-Nitrosodiphenylamine  
Concen: 12.398 ng  
RT: 15.715 min Scan# 2164  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 68.6  | 54.2  | 81.4  |
| 167     | 38.3  | 29.5  | 44.3  |

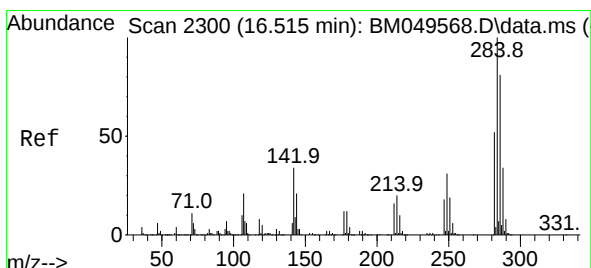
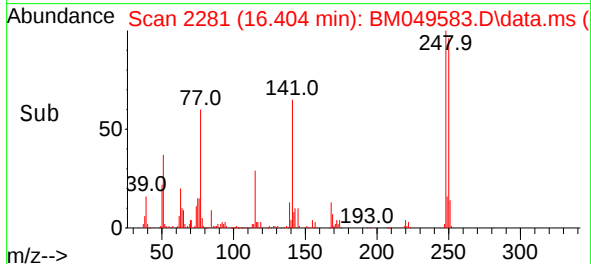
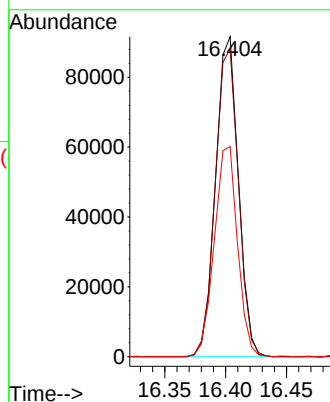
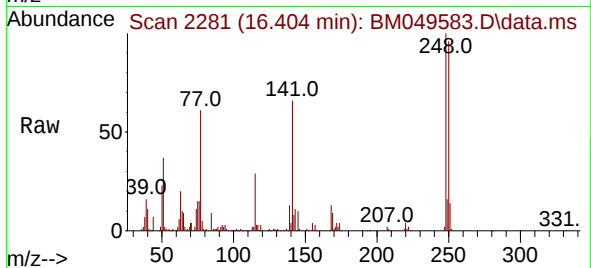




#67  
4-Bromophenyl-phenylether  
Concen: 12.163 ng  
RT: 16.404 min Scan# 2281  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

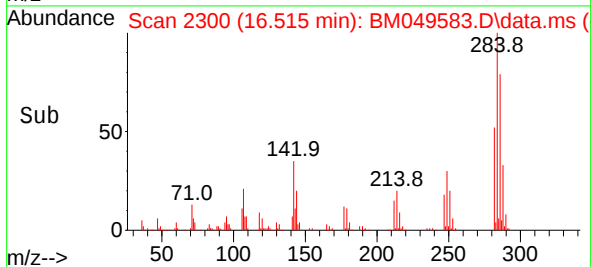
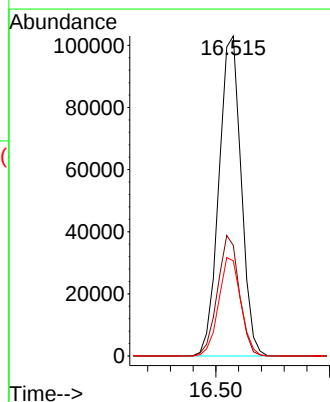
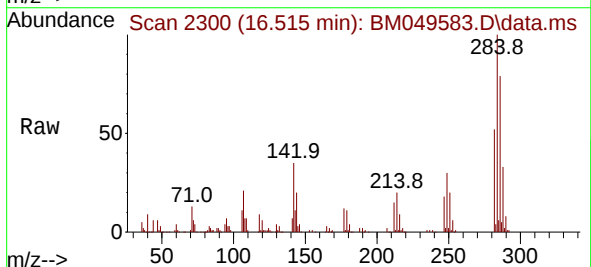
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

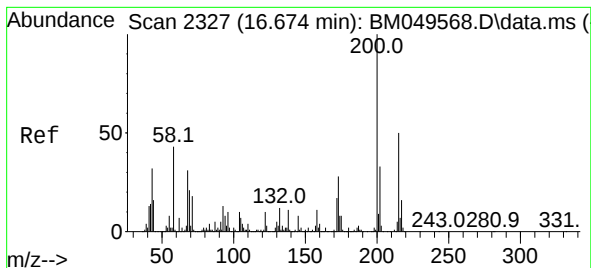
Tgt Ion:248 Resp: 119572  
Ion Ratio Lower Upper  
248 100  
250 96.3 77.0 115.4  
141 65.7 53.0 79.4



#68  
Hexachlorobenzene  
Concen: 12.401 ng  
RT: 16.515 min Scan# 2300  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion:284 Resp: 139933  
Ion Ratio Lower Upper  
284 100  
142 34.5 27.1 40.7  
249 29.7 24.6 36.8





#69

Atrazine

Concen: 7.487 ng

RT: 16.668 min Scan# 2326

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

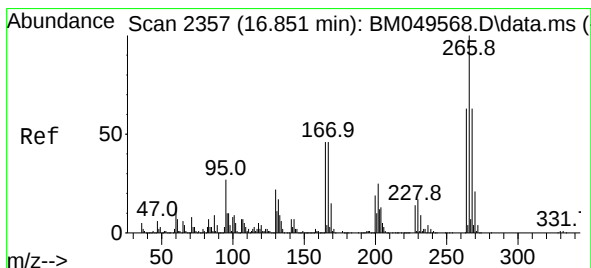
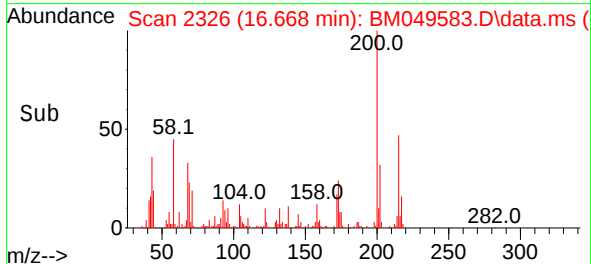
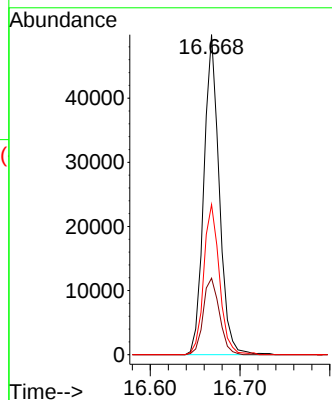
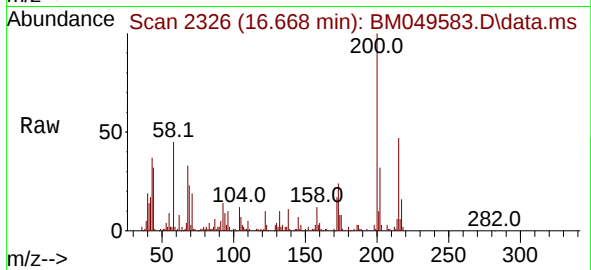
Tgt Ion:200 Resp: 59399

Ion Ratio Lower Upper

200 100

173 23.9 7.6 47.6

215 46.9 30.2 70.2



#70

Pentachlorophenol

Concen: 12.947 ng

RT: 16.851 min Scan# 2357

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

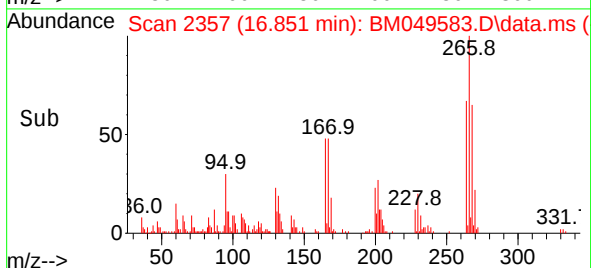
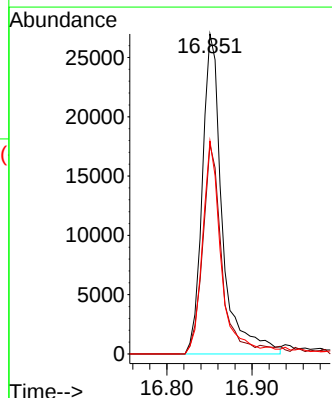
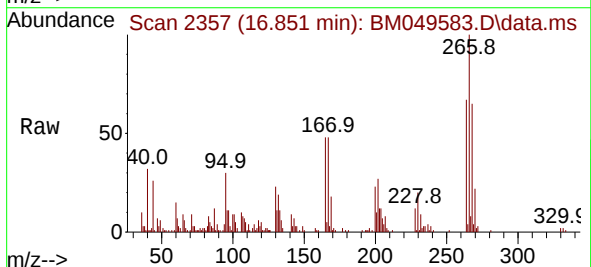
Tgt Ion:266 Resp: 44117

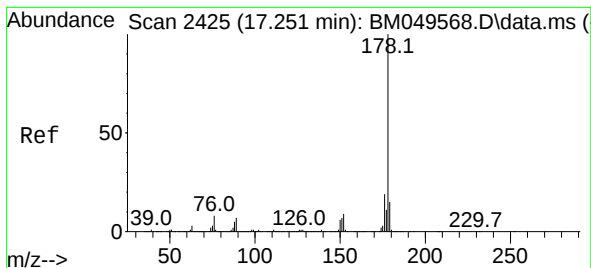
Ion Ratio Lower Upper

266 100

268 65.5 50.8 76.2

264 66.5 50.0 75.0





#71

Phenanthrene

Concen: 12.403 ng

RT: 17.245 min Scan# 2425

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

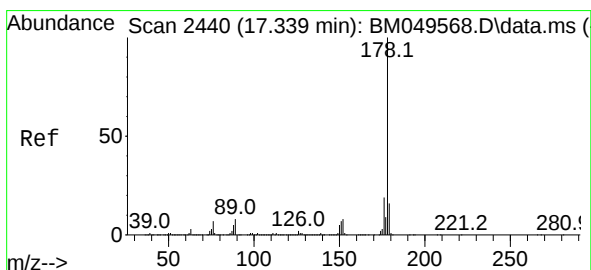
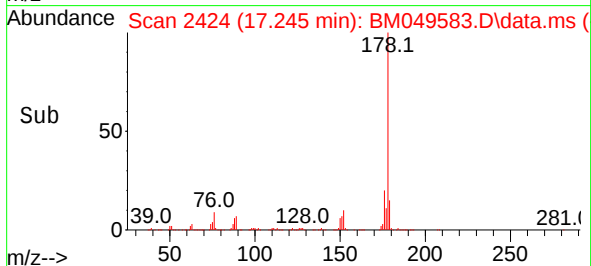
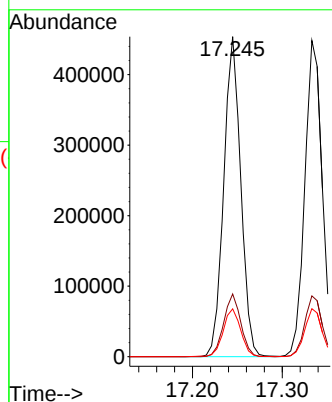
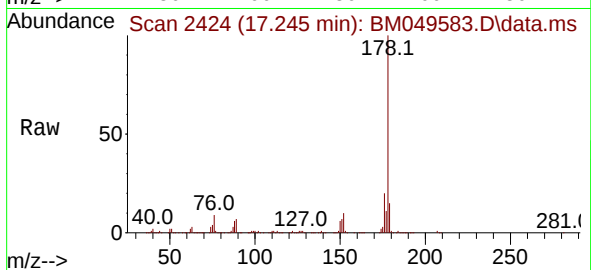
Tgt Ion:178 Resp: 597954

Ion Ratio Lower Upper

178 100

176 19.6 15.5 23.3

179 15.0 12.2 18.2



#72

Anthracene

Concen: 12.589 ng

RT: 17.333 min Scan# 2439

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

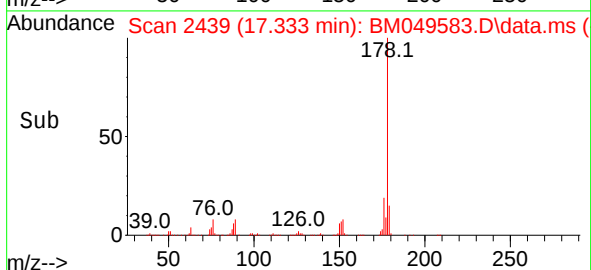
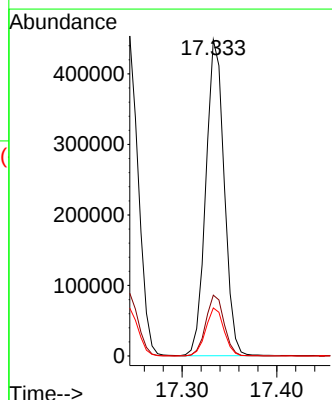
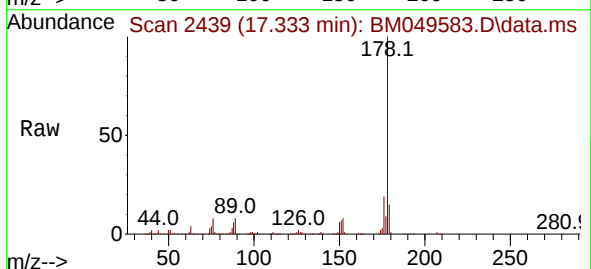
Tgt Ion:178 Resp: 600954

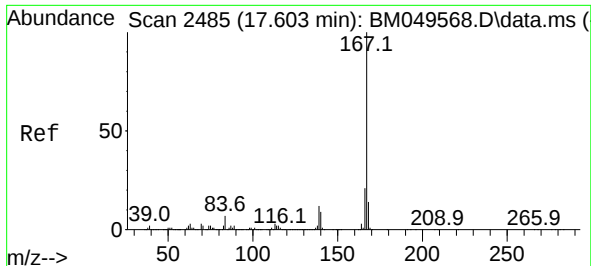
Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

179 15.2 12.4 18.6

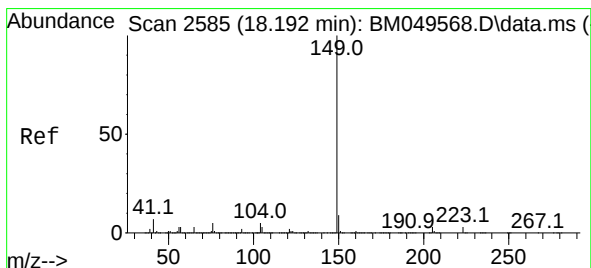
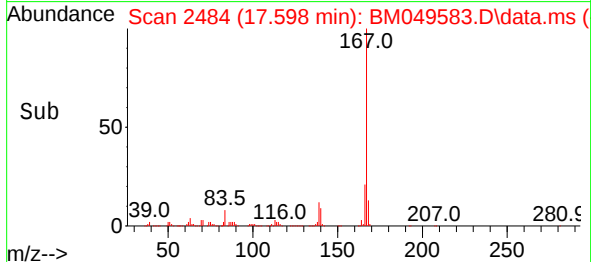
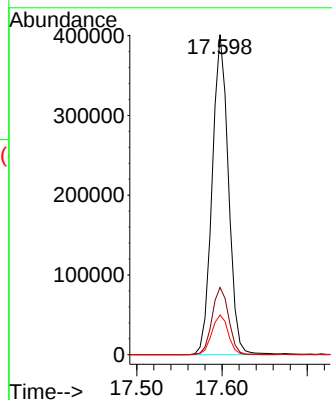
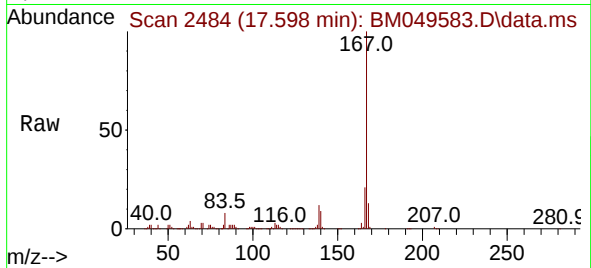




#73  
 Carbazole  
 Concen: 12.684 ng  
 RT: 17.598 min Scan# 2484  
 Delta R.T. -0.006 min  
 Lab File: BM049583.D  
 Acq: 06 Feb 2025 17:03

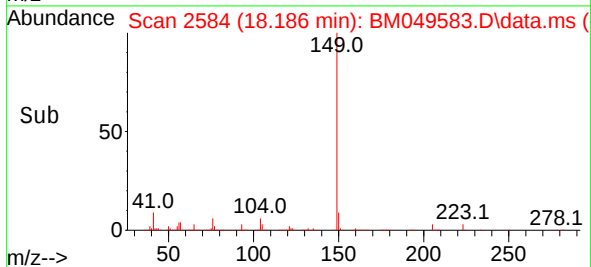
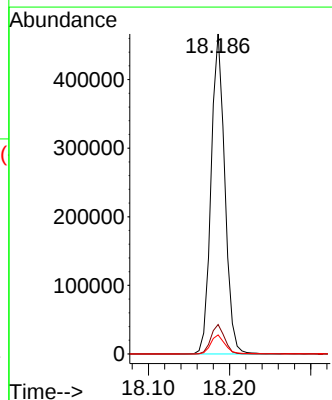
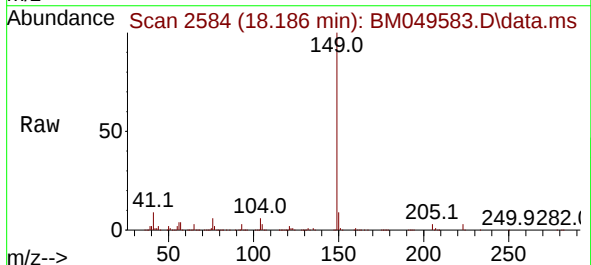
Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2025

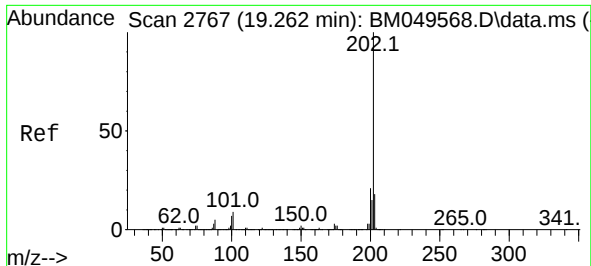
Tgt Ion:167 Resp: 531398  
 Ion Ratio Lower Upper  
 167 100  
 166 21.0 17.2 25.8  
 139 12.4 9.6 14.4



#74  
 Di-n-butylphthalate  
 Concen: 10.277 ng  
 RT: 18.186 min Scan# 2584  
 Delta R.T. -0.006 min  
 Lab File: BM049583.D  
 Acq: 06 Feb 2025 17:03

Tgt Ion:149 Resp: 546359  
 Ion Ratio Lower Upper  
 149 100  
 150 9.2 7.4 11.0  
 104 6.0 4.1 6.1

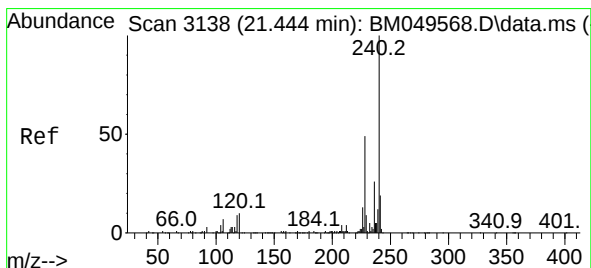
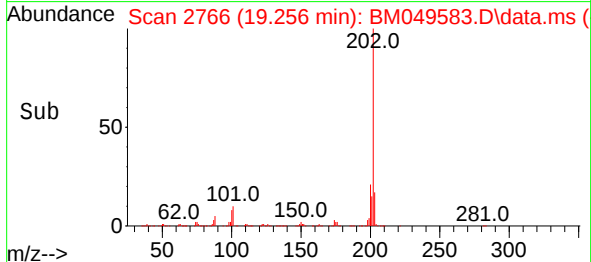
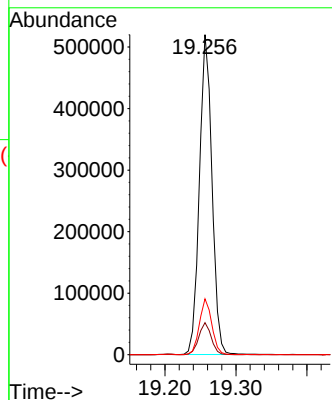
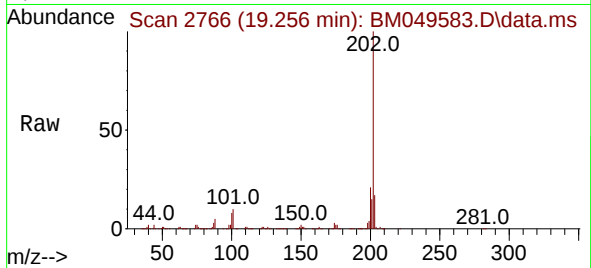




#75  
Fluoranthene  
Concen: 11.369 ng  
RT: 19.256 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

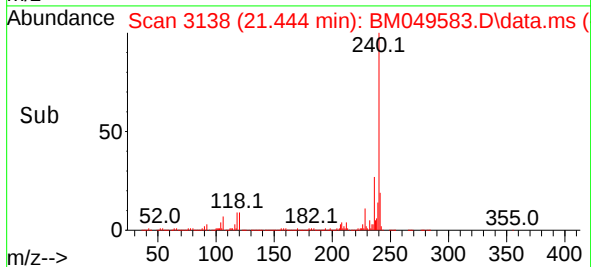
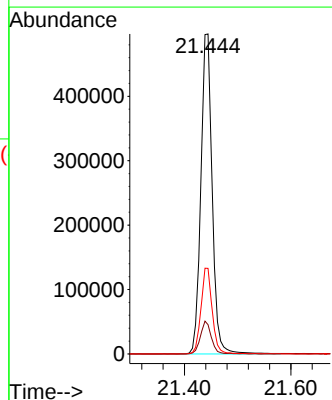
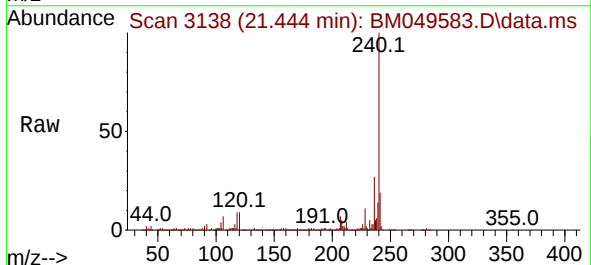
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

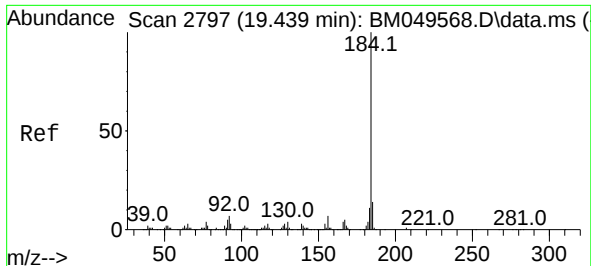
Tgt Ion:202 Resp: 641701  
Ion Ratio Lower Upper  
202 100  
101 10.0 0.0 29.1  
203 17.5 0.0 37.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.444 min Scan# 3138  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

Tgt Ion:240 Resp: 734420  
Ion Ratio Lower Upper  
240 100  
120 9.1 7.8 11.8  
236 26.8 20.6 31.0

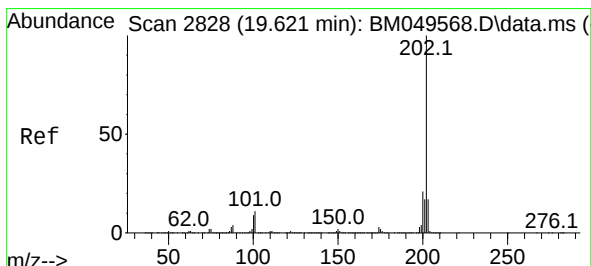
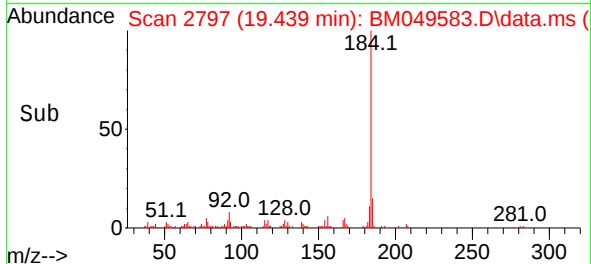
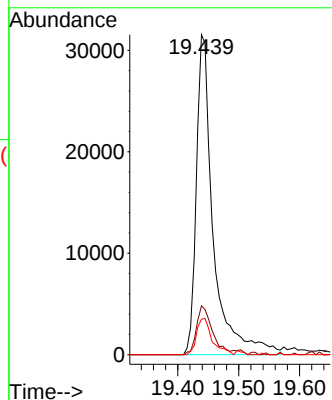
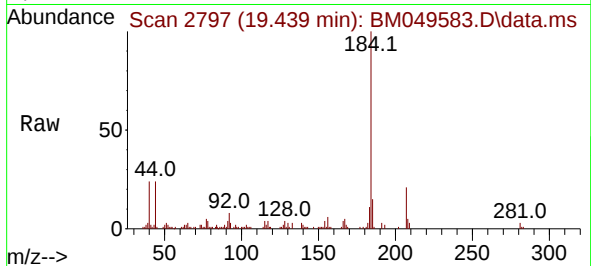




#77  
Benzidine  
Concen: 9.359 ng  
RT: 19.439 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

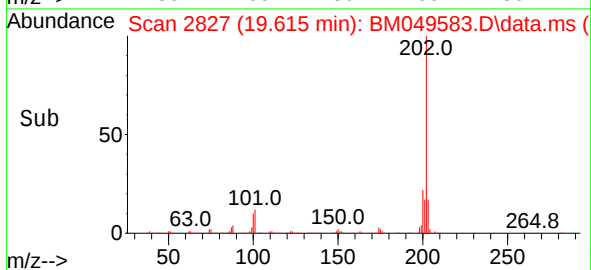
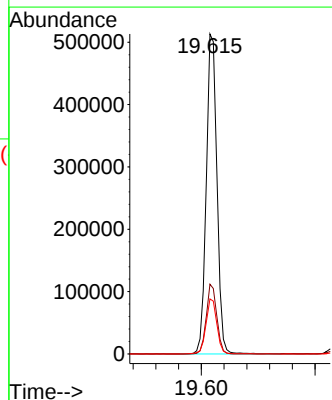
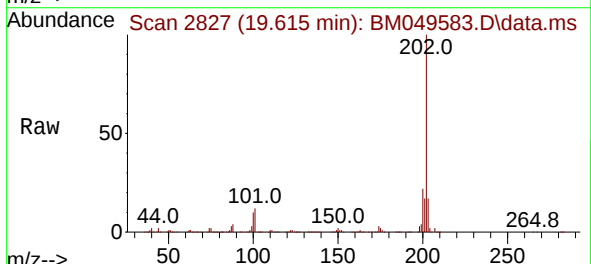
Instrument :  
BNA\_M  
ClientSampleId :  
LOQ-SOIL-02-QT1-2025

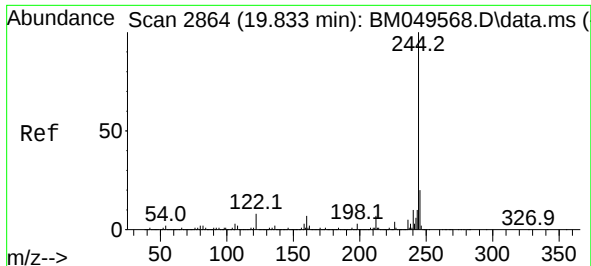
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:184 | Resp: | 60871     |
| Ion Ratio   | Lower | Upper     |
| 184         | 100   |           |
| 185         | 15.2  | 11.6 17.4 |
| 183         | 11.0  | 8.9 13.3  |



#78  
Pyrene  
Concen: 12.142 ng  
RT: 19.615 min Scan# 2827  
Delta R.T. -0.006 min  
Lab File: BM049583.D  
Acq: 06 Feb 2025 17:03

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 667680    |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 200         | 21.8  | 16.8 25.2 |
| 203         | 17.2  | 13.8 20.8 |

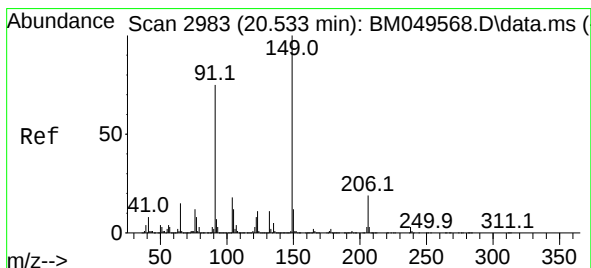
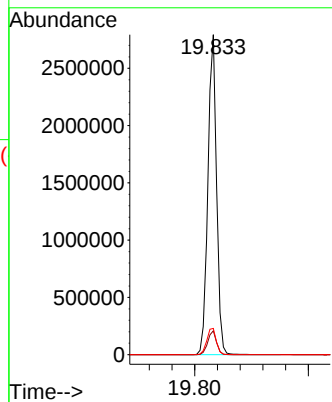
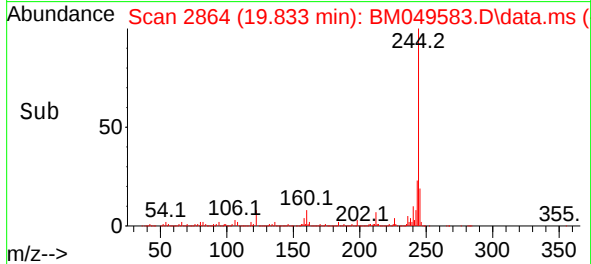
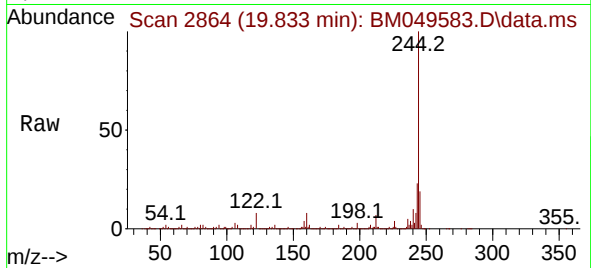




#79  
 Terphenyl-d14  
 Concen: 61.144 ng  
 RT: 19.833 min Scan# 2864  
 Delta R.T. 0.000 min  
 Lab File: BM049583.D  
 Acq: 06 Feb 2025 17:03

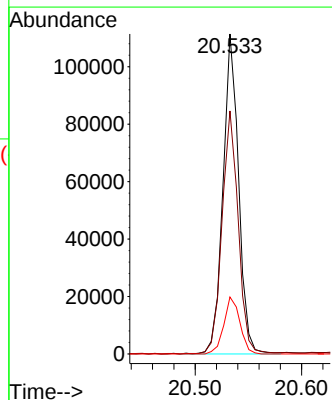
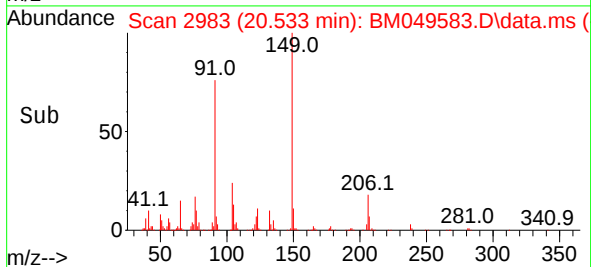
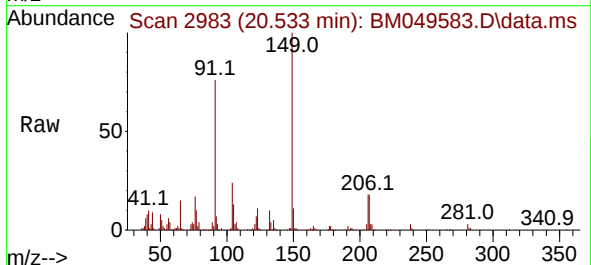
Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2025

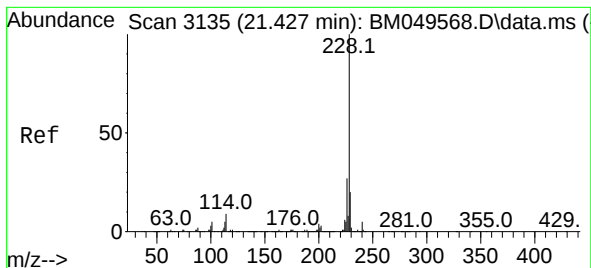
Tgt Ion:244 Resp: 2940695  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 5.8 8.6  
 122 8.2 6.2 9.2



#80  
 Butylbenzylphthalate  
 Concen: 6.611 ng  
 RT: 20.533 min Scan# 2983  
 Delta R.T. -0.000 min  
 Lab File: BM049583.D  
 Acq: 06 Feb 2025 17:03

Tgt Ion:149 Resp: 113117  
 Ion Ratio Lower Upper  
 149 100  
 91 75.9 60.2 90.2  
 206 17.8 15.4 23.0





#81

Benzo(a)anthracene

Concen: 12.492 ng

RT: 21.427 min Scan# 3135

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

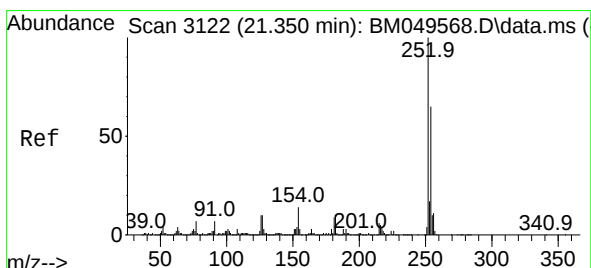
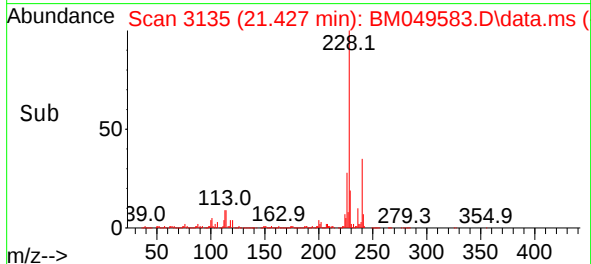
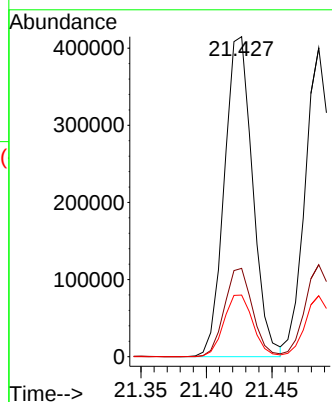
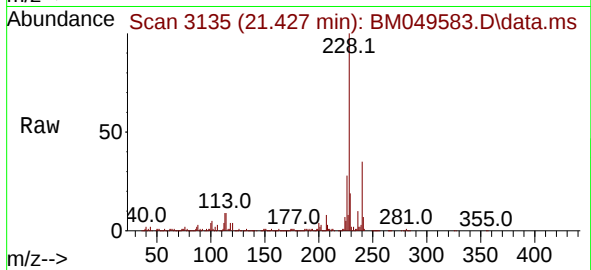
Tgt Ion:228 Resp: 621776

Ion Ratio Lower Upper

228 100

226 27.6 22.0 33.0

229 19.2 15.7 23.5



#82

3,3'-Dichlorobenzidine

Concen: 5.600 ng

RT: 21.344 min Scan# 3121

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

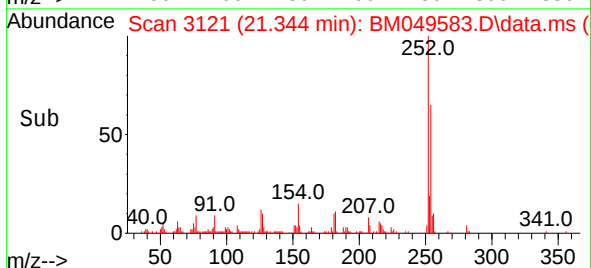
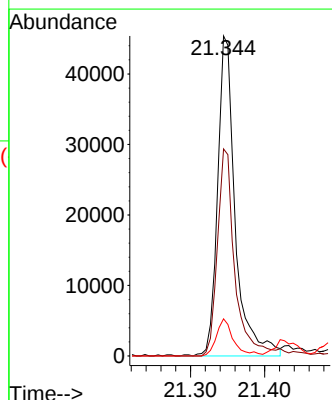
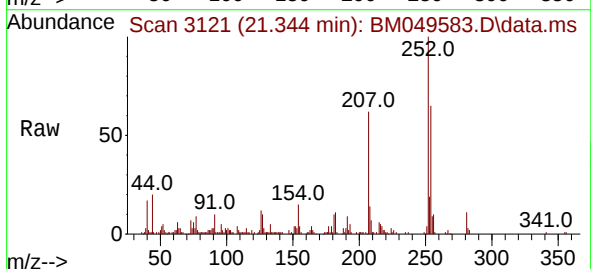
Tgt Ion:252 Resp: 75004

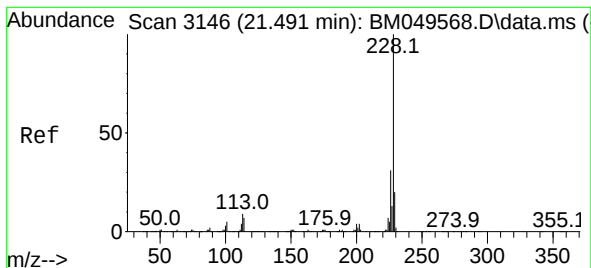
Ion Ratio Lower Upper

252 100

254 64.7 52.1 78.1

126 11.6 7.8 11.6





#83

Chrysene

Concen: 12.426 ng

RT: 21.486 min Scan# 3146

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

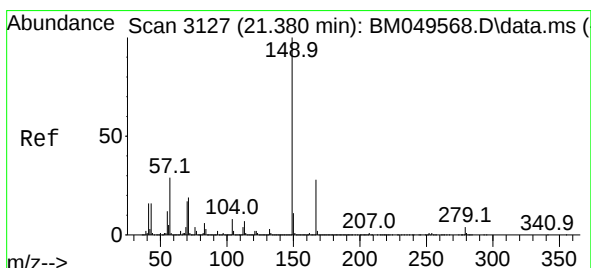
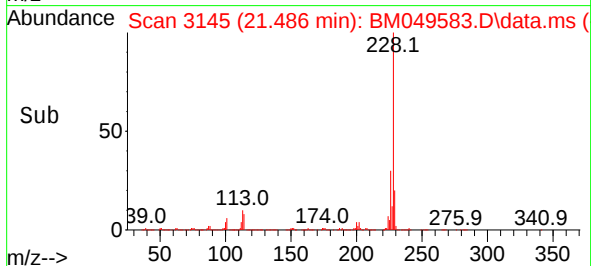
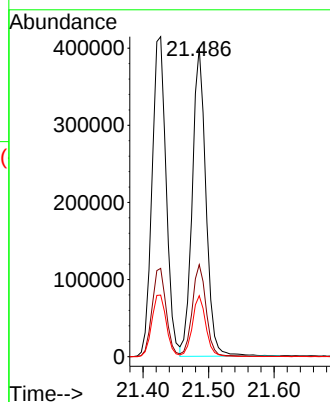
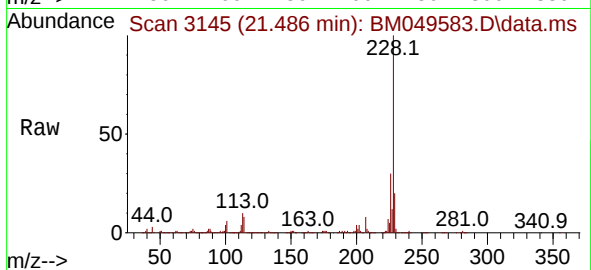
Tgt Ion:228 Resp: 579459

Ion Ratio Lower Upper

228 100

226 29.8 24.5 36.7

229 19.7 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 7.855 ng

RT: 21.380 min Scan# 3127

Delta R.T. -0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

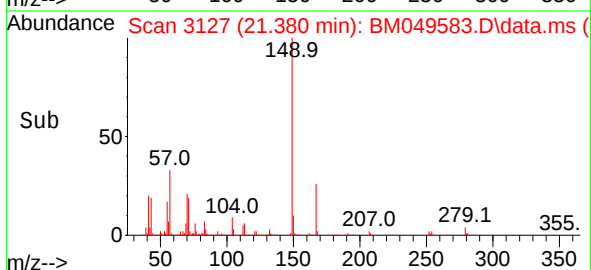
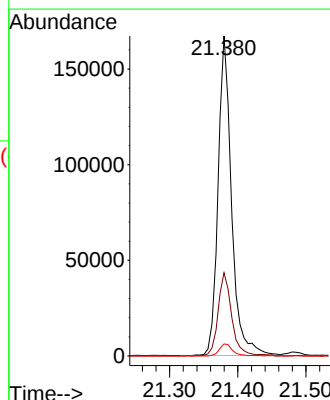
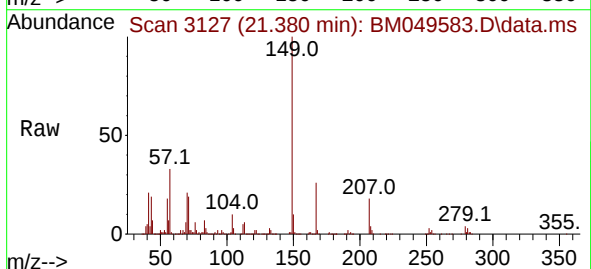
Tgt Ion:149 Resp: 230418

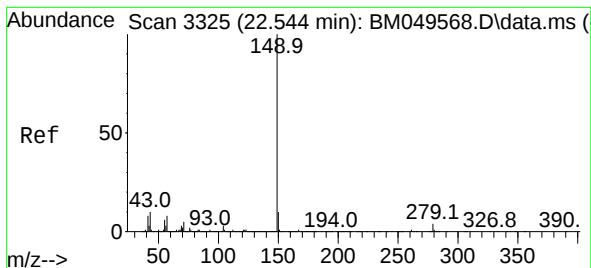
Ion Ratio Lower Upper

149 100

167 26.0 22.1 33.1

279 3.8 3.0 4.4





#85

Di-n-octyl phthalate

Concen: 6.284 ng

RT: 22.538 min Scan# 3324

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

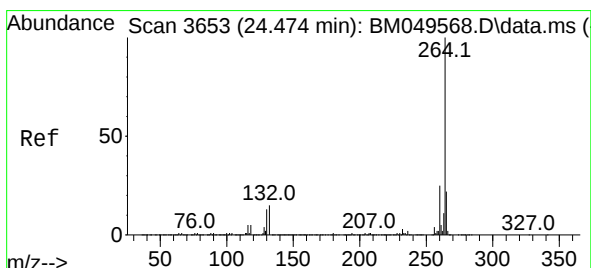
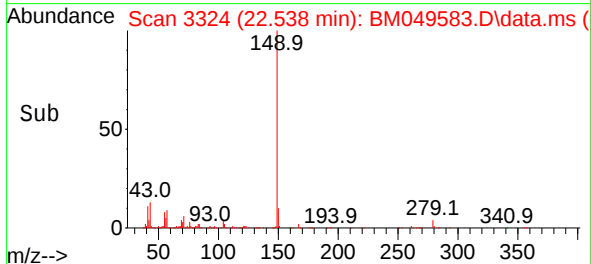
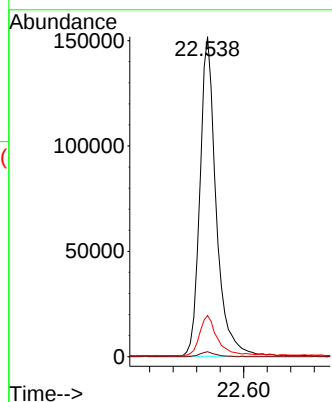
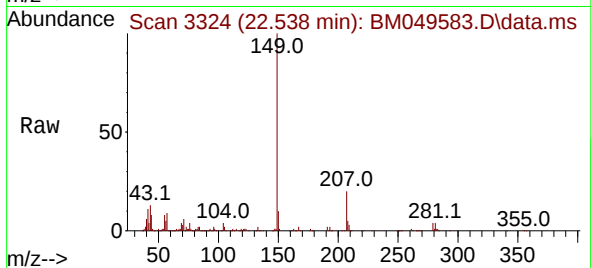
Tgt Ion:149 Resp: 290820

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

43 13.7 8.5 12.7#



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.474 min Scan# 3653

Delta R.T. 0.000 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

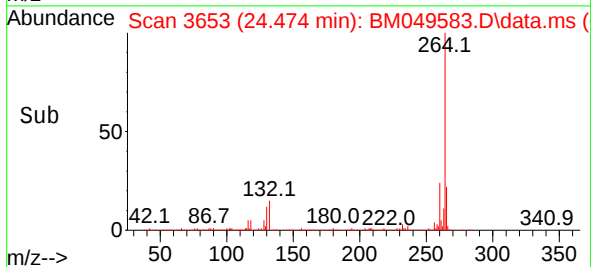
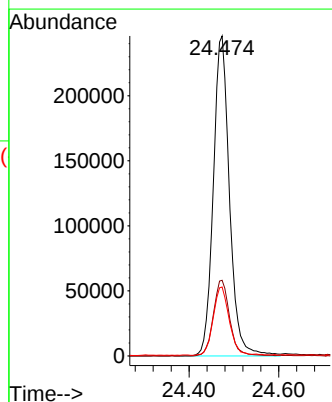
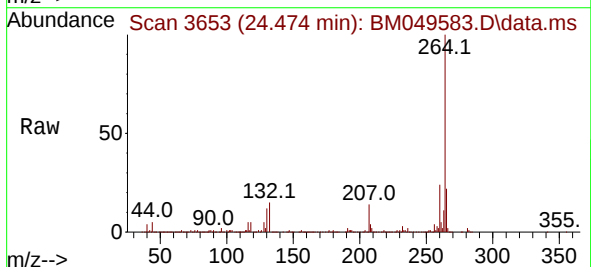
Tgt Ion:264 Resp: 618274

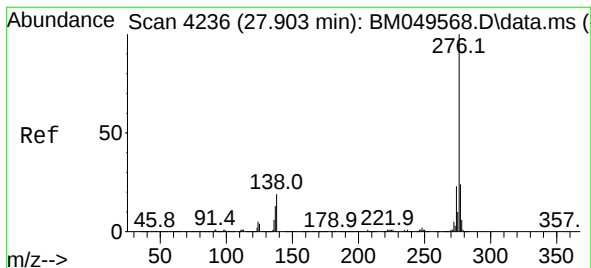
Ion Ratio Lower Upper

264 100

260 23.7 19.8 29.6

265 21.5 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 11.996 ng

RT: 27.891 min Scan# 41

Delta R.T. -0.012 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

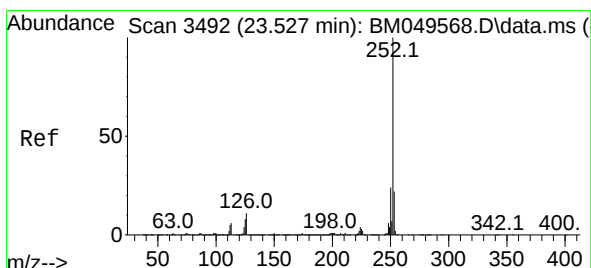
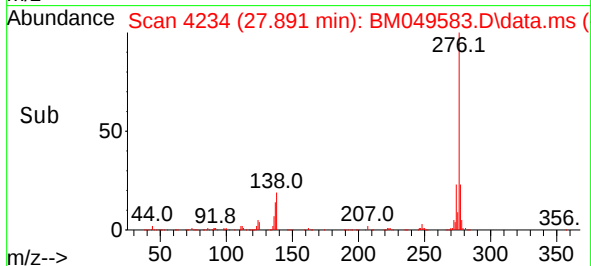
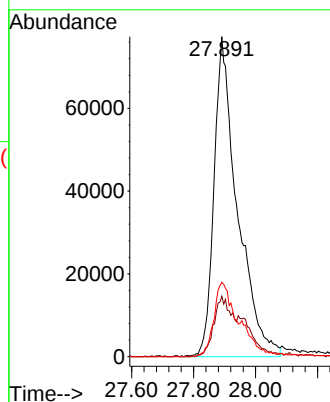
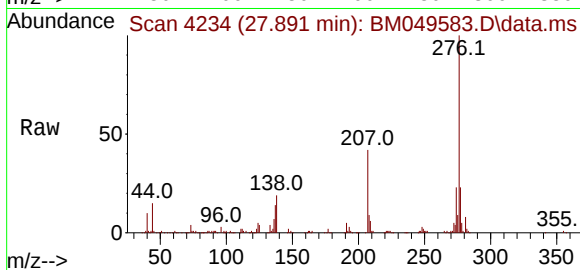
Tgt Ion:276 Resp: 405039

Ion Ratio Lower Upper

276 100

138 14.7 13.1 19.7

277 19.2 19.9 29.9#



#88

Benzo(b)fluoranthene

Concen: 11.378 ng

RT: 23.515 min Scan# 3490

Delta R.T. -0.012 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

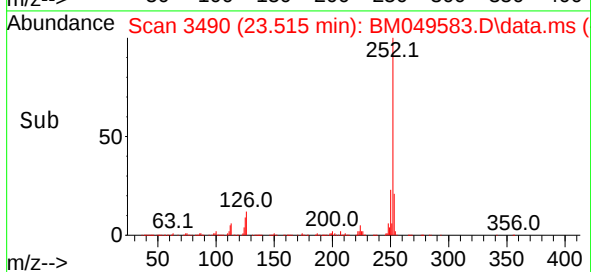
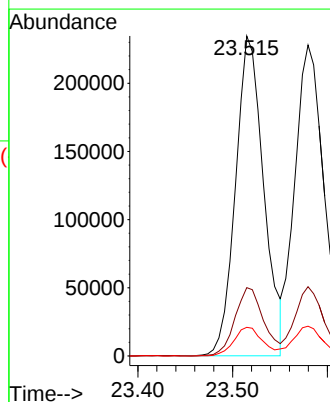
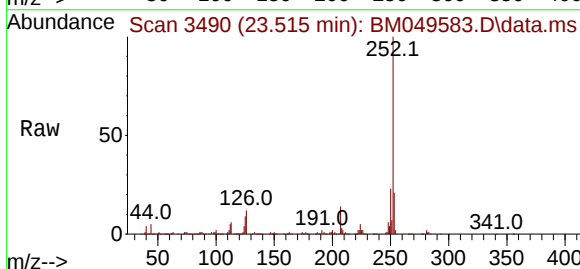
Tgt Ion:252 Resp: 483948

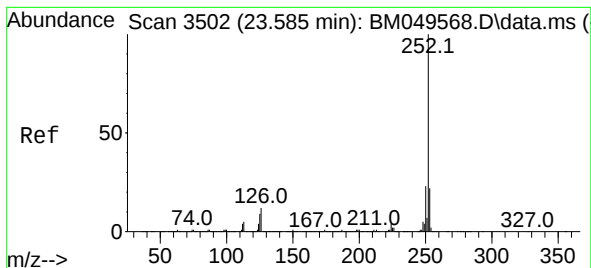
Ion Ratio Lower Upper

252 100

253 21.3 17.4 26.2

125 9.0 6.6 10.0





#89

Benzo(k)fluoranthene

Concen: 12.098 ng

RT: 23.580 min Scan# 3502

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

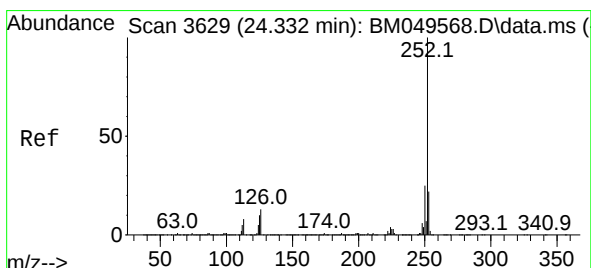
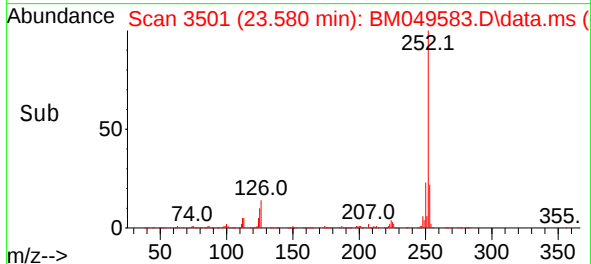
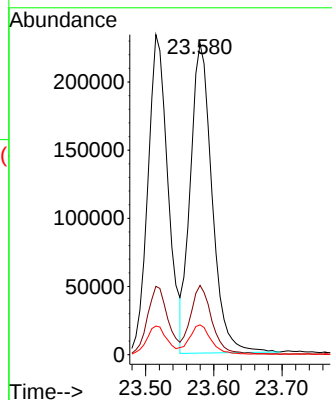
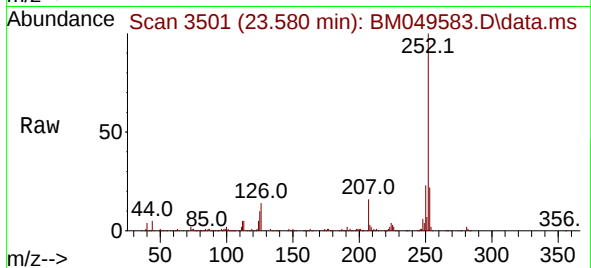
Tgt Ion:252 Resp: 499781

Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

125 9.6 7.0 10.6



#90

Benzo(a)pyrene

Concen: 12.151 ng

RT: 24.327 min Scan# 3628

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

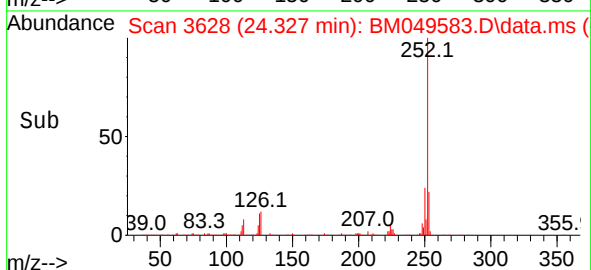
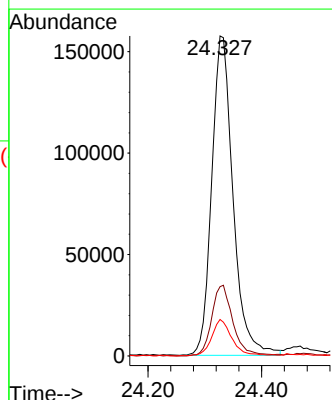
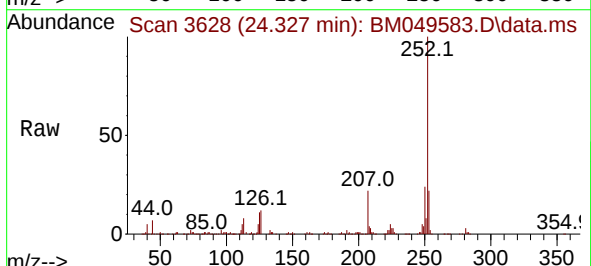
Tgt Ion:252 Resp: 409555

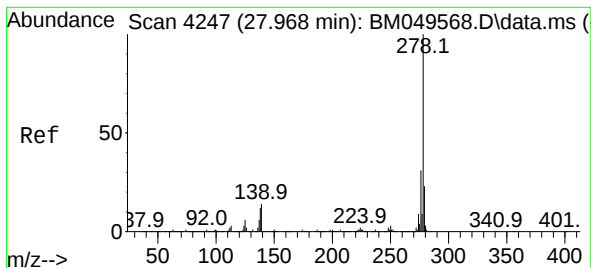
Ion Ratio Lower Upper

252 100

253 21.7 17.4 26.0

125 11.4 8.2 12.2





#91

Dibenzo(a,h)anthracene

Concen: 11.504 ng

RT: 27.962 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Instrument :

BNA\_M

ClientSampleId :

LOQ-SOIL-02-QT1-2025

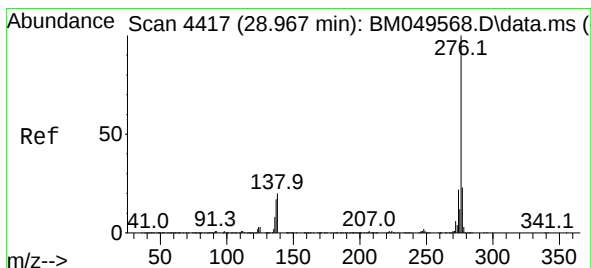
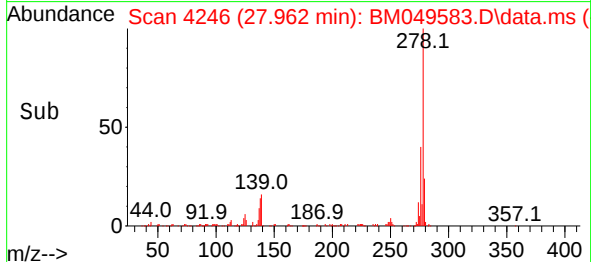
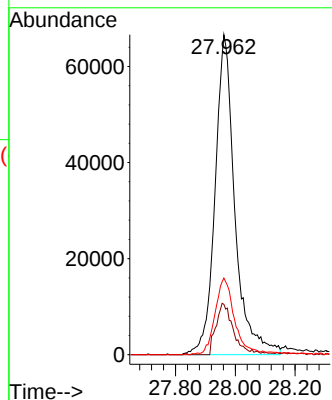
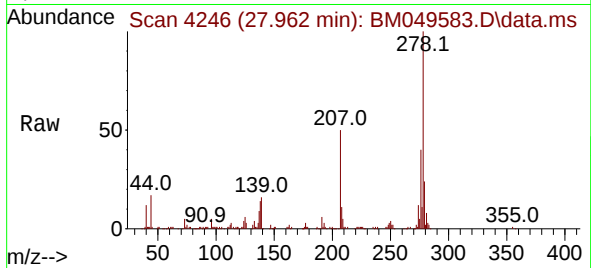
Tgt Ion:278 Resp: 306992

Ion Ratio Lower Upper

278 100

139 15.8 11.5 17.3

279 24.0 18.2 27.2



#92

Benzo(g,h,i)perylene

Concen: 11.250 ng

RT: 28.944 min Scan# 4413

Delta R.T. -0.023 min

Lab File: BM049583.D

Acq: 06 Feb 2025 17:03

Tgt Ion:276 Resp: 335373

Ion Ratio Lower Upper

276 100

277 23.2 18.7 28.1

138 21.9 16.0 24.0

