

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN090922\  
 Data File : BN021654.D  
 Acq On : 09 Sep 2022 10:53  
 Operator : CG/JU  
 Sample : N3670-04  
 Misc : SFAM-SIM-MDL-SOIL02  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-QT2-2022-04

Quant Time: Sep 09 11:21:38 2022  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN090822.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 08 14:04:47 2022  
 Response via : Initial Calibration

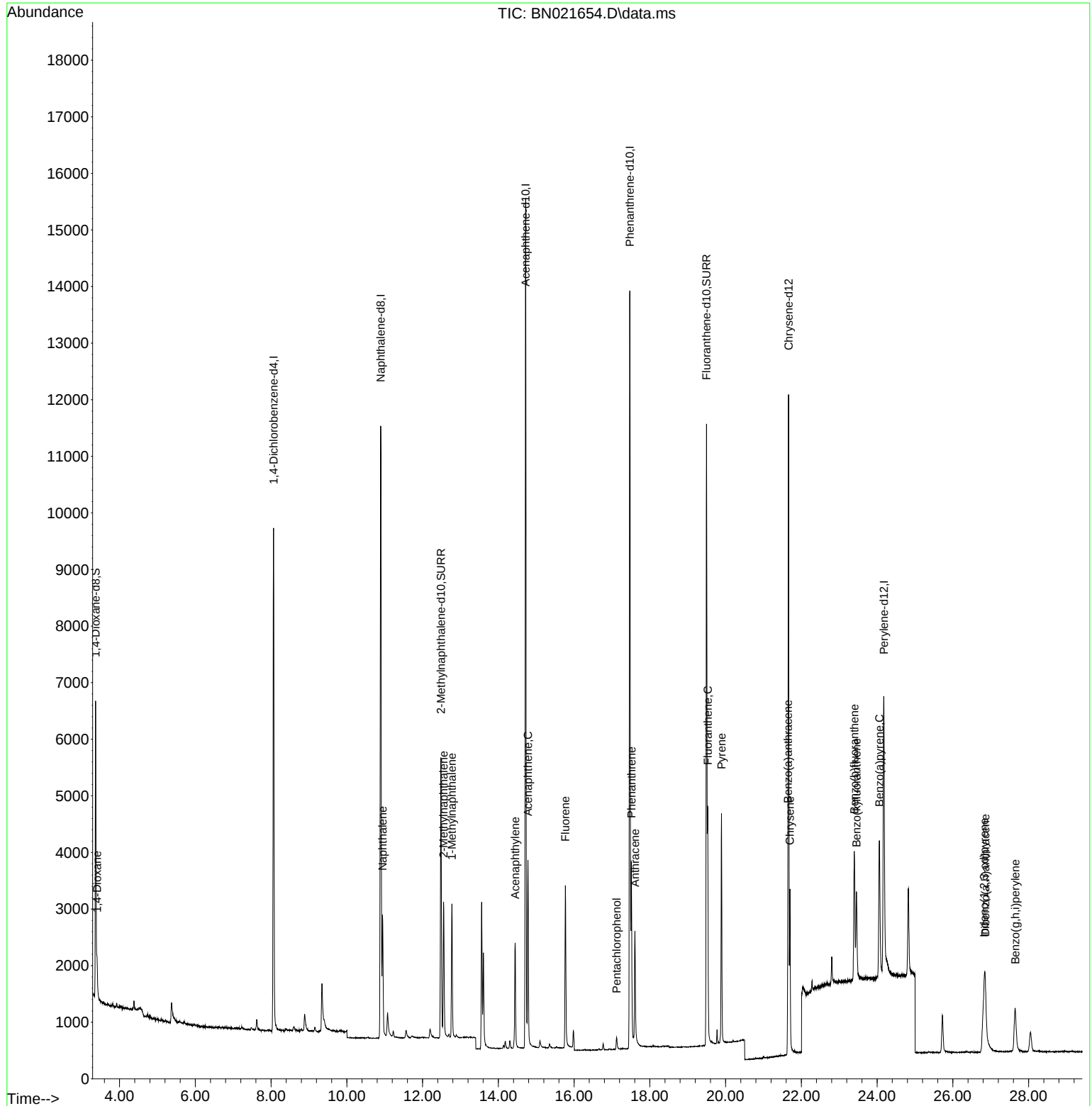
| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.067  | 152  | 4864     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.894 | 136  | 15705    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.721 | 164  | 8657     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.472 | 188  | 17097    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.662 | 240  | 10434    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 24.179 | 264  | 7756     | 0.400 | ng/ul  | 0.00     |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.367  | 96   | 3567     | 0.596 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.483 | 152  | 6977     | 0.281 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.496 | 212  | 12541    | 0.323 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.405  | 88   | 434      | 0.071 | ng/ul# | 80       |
| 5) Naphthalene              | 10.944 | 128  | 2978     | 0.067 | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 12.555 | 142  | 1863     | 0.065 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.775 | 142  | 1748     | 0.059 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.444 | 152  | 2382     | 0.066 | ng/ul  | 95       |
| 11) Acenaphthene            | 14.781 | 153  | 1975     | 0.064 | ng/ul  | 97       |
| 12) Fluorene                | 15.771 | 166  | 2104     | 0.061 | ng/ul  | 96       |
| 14) Pentachlorophenol       | 17.122 | 266  | 196      | 0.059 | ng/ul  | 97       |
| 15) Phenanthrene            | 17.514 | 178  | 3441     | 0.064 | ng/ul  | 96       |
| 16) Anthracene              | 17.607 | 178  | 2710     | 0.061 | ng/ul  | 95       |
| 19) Fluoranthene            | 19.529 | 202  | 3552     | 0.073 | ng/ul# | 93       |
| 20) Pyrene                  | 19.892 | 202  | 3480     | 0.072 | ng/ul# | 92       |
| 21) Benzo(a)anthracene      | 21.644 | 228  | 2230     | 0.064 | ng/ul  | 96       |
| 22) Chrysene                | 21.700 | 228  | 2658     | 0.070 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.404 | 252  | 2699     | 0.072 | ng/ul# | 50       |
| 25) Benzo(k)fluoranthene    | 23.453 | 252  | 2328     | 0.064 | ng/ul# | 62       |
| 26) Benzo(a)pyrene          | 24.064 | 252  | 2373     | 0.083 | ng/ul# | 1        |
| 27) Indeno(1,2,3-cd)pyrene  | 26.824 | 276  | 2477     | 0.077 | ng/ul# | 60       |
| 28) Dibenzo(a,h)anthracene  | 26.861 | 278  | 1963     | 0.072 | ng/ul# | 73       |
| 29) Benzo(g,h,i)perylene    | 27.649 | 276  | 2036     | 0.069 | ng/ul# | 83       |
| -----                       |        |      |          |       |        |          |

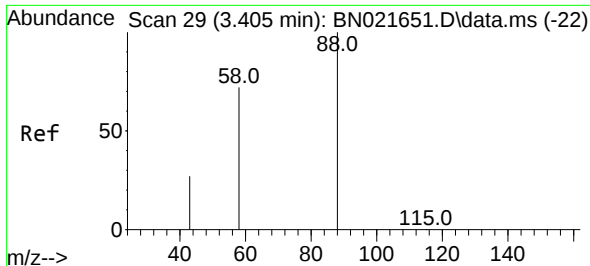
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN090922\  
Data File : BN021654.D  
Acq On : 09 Sep 2022 10:53  
Operator : CG/JU  
Sample : N3670-04  
Misc : SFAM-SIM-MDL-SOIL02  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

Quant Time: Sep 09 11:21:38 2022  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN090822.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 08 14:04:47 2022  
Response via : Initial Calibration

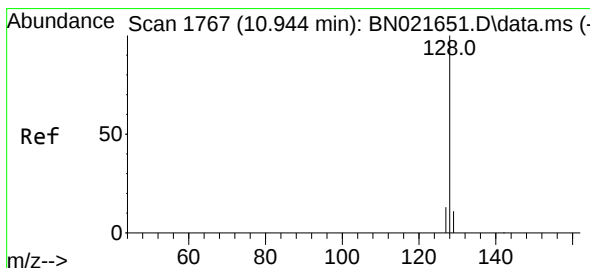
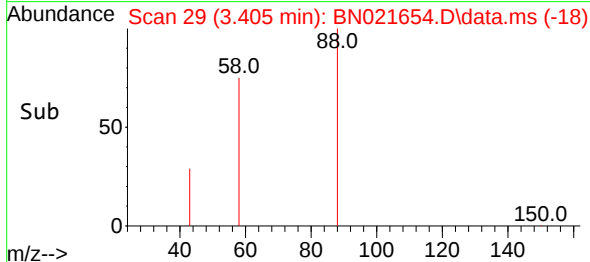
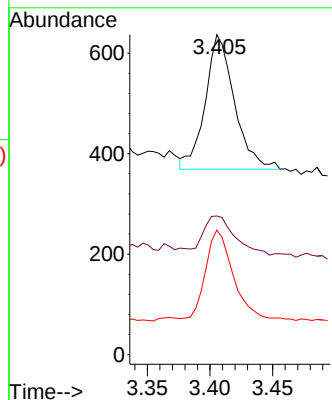
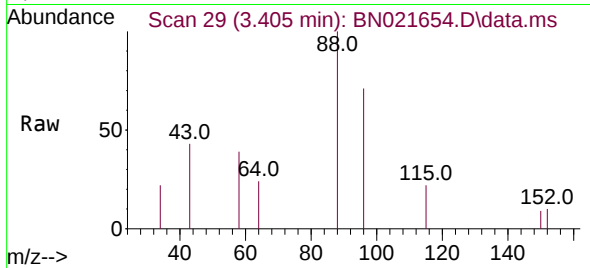




#2  
1,4-Dioxane  
Concen: 0.071 ng/ul  
RT: 3.405 min Scan# 29  
Delta R.T. -0.004 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

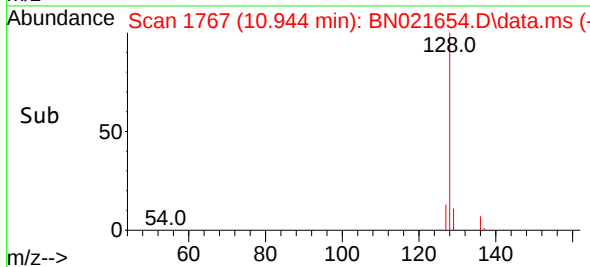
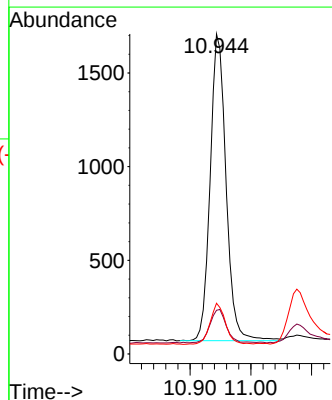
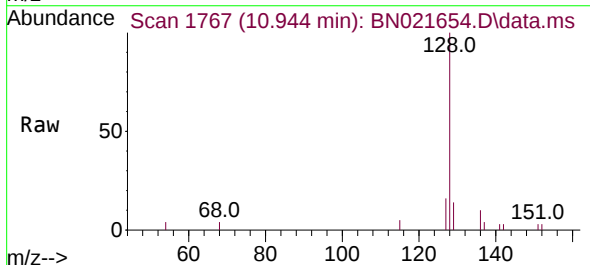
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

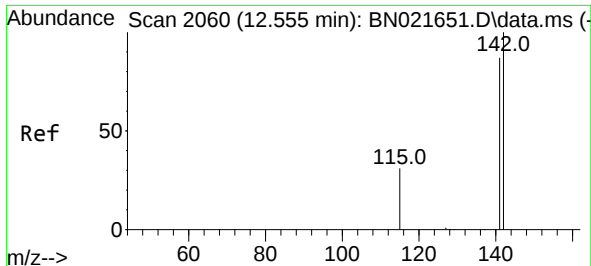
Tgt Ion: 88 Resp: 434  
Ion Ratio Lower Upper  
88 100  
43 43.3 31.4 47.0  
58 38.9 49.0 73.6#



#5  
Naphthalene  
Concen: 0.067 ng/ul  
RT: 10.944 min Scan# 1767  
Delta R.T. -0.000 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

Tgt Ion: 128 Resp: 2978  
Ion Ratio Lower Upper  
128 100  
129 13.6 9.8 14.6  
127 15.9 11.6 17.4

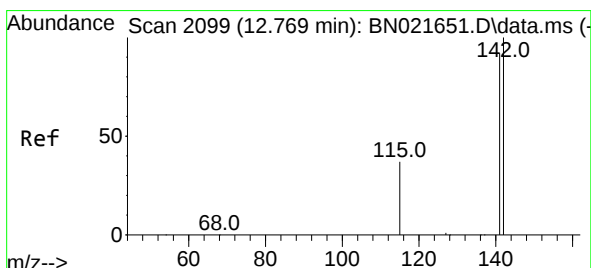
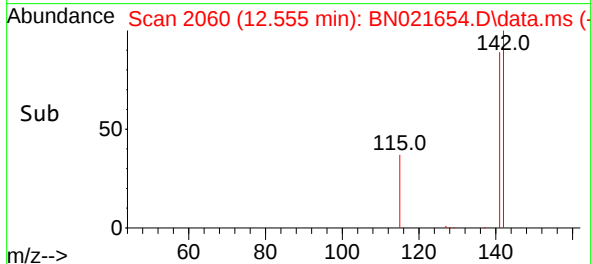
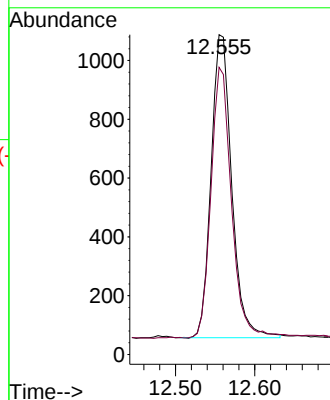
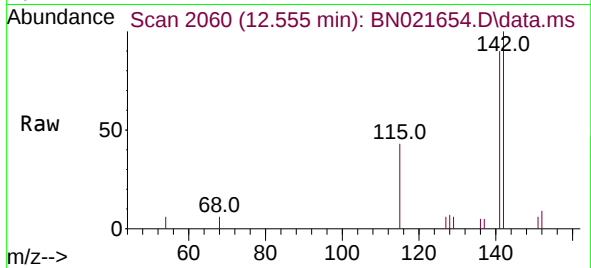




#7  
2-Methylnaphthalene  
Concen: 0.065 ng/ul  
RT: 12.555 min Scan# 2060  
Delta R.T. -0.000 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

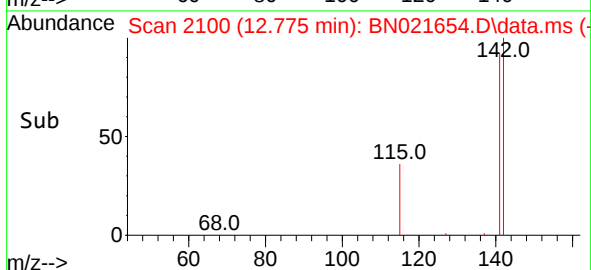
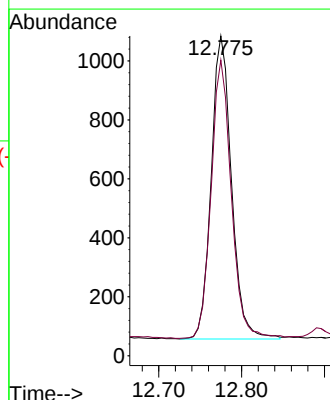
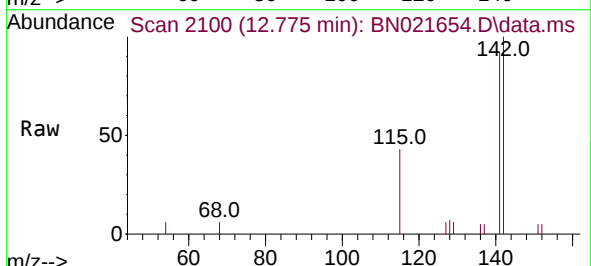
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

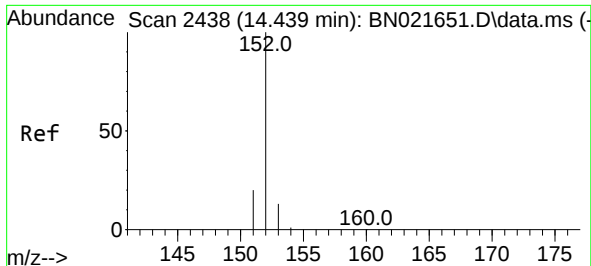
Tgt Ion:142 Resp: 1863  
Ion Ratio Lower Upper  
142 100  
141 88.9 72.2 108.2



#8  
1-Methylnaphthalene  
Concen: 0.059 ng/ul  
RT: 12.775 min Scan# 2100  
Delta R.T. -0.000 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

Tgt Ion:142 Resp: 1748  
Ion Ratio Lower Upper  
142 100  
141 91.3 73.9 110.9

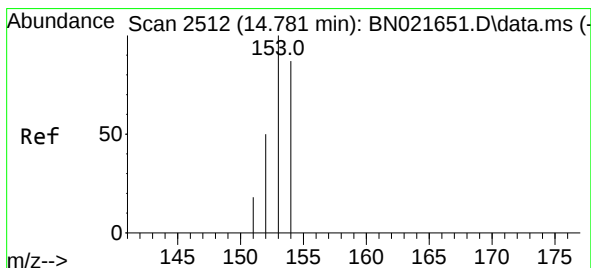
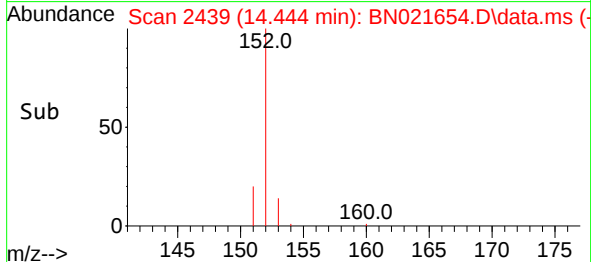
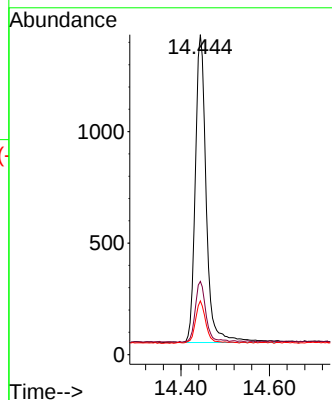
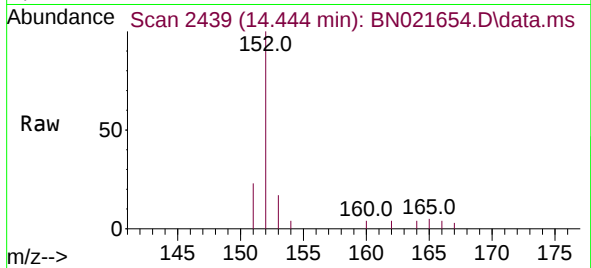




#10  
Acenaphthylene  
Concen: 0.066 ng/ul  
RT: 14.444 min Scan# 2439  
Delta R.T. -0.000 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

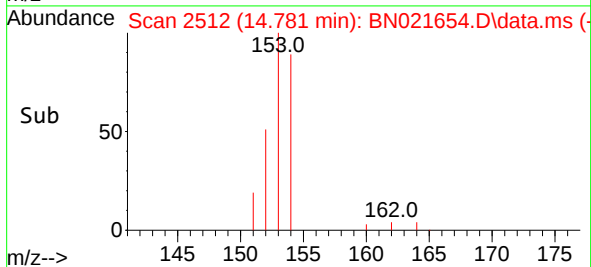
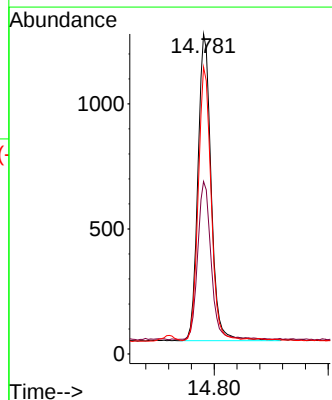
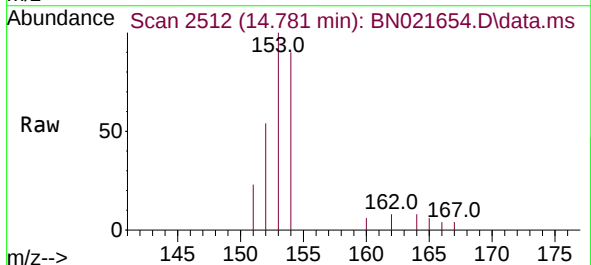
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

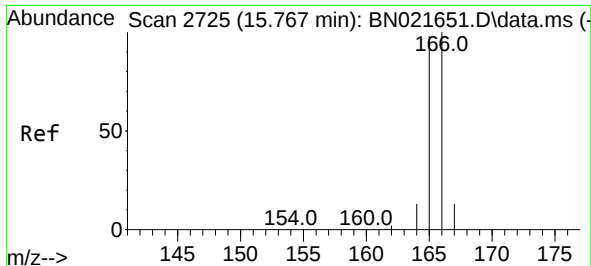
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 2382      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 22.9  | 16.9 25.3 |
| 153         | 16.8  | 11.2 16.8 |



#11  
Acenaphthene  
Concen: 0.064 ng/ul  
RT: 14.781 min Scan# 2512  
Delta R.T. -0.000 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:153 | Resp: | 1975       |
| Ion Ratio   | Lower | Upper      |
| 153         | 100   |            |
| 152         | 53.9  | 40.2 60.4  |
| 154         | 89.6  | 70.7 106.1 |

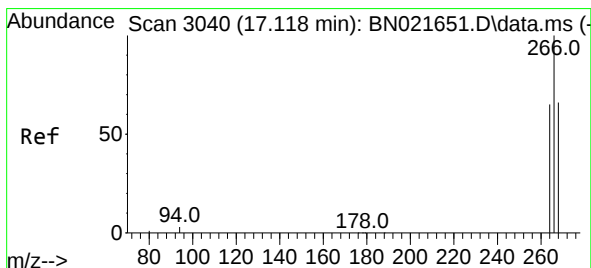
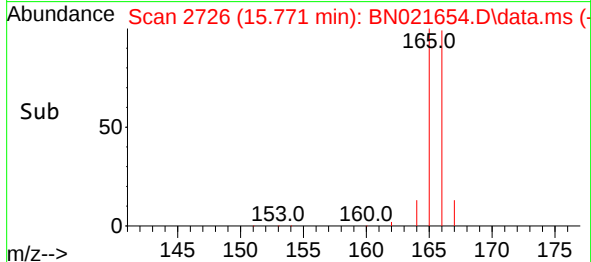
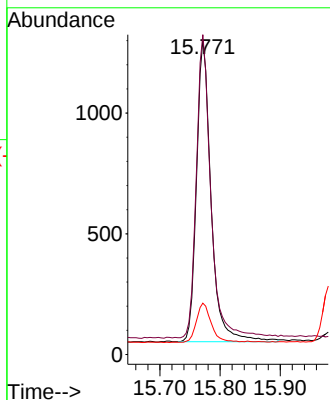
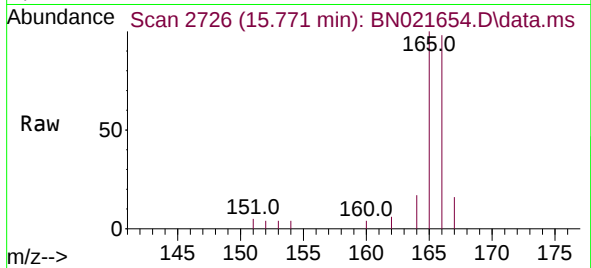




#12  
Fluorene  
Concen: 0.061 ng/ul  
RT: 15.771 min Scan# 21  
Delta R.T. 0.005 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

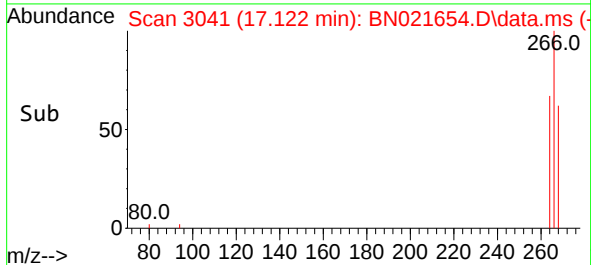
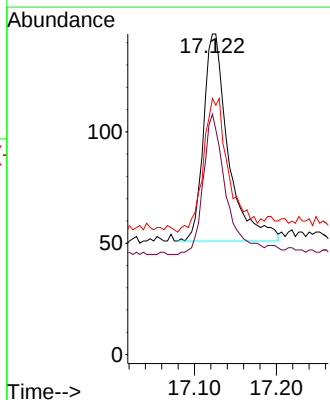
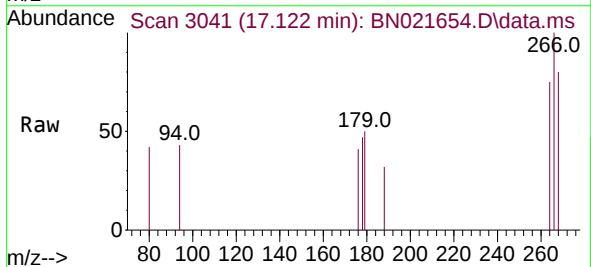
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

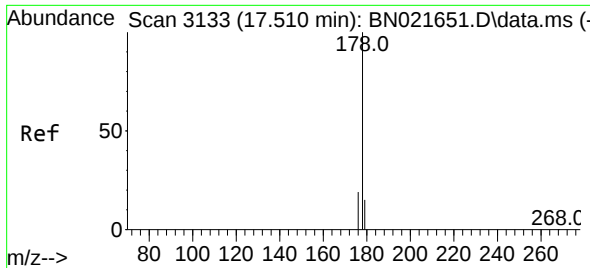
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 2104  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 101.8 | 78.6  | 117.8 |
| 167       | 16.4  | 11.8  | 17.6  |



#14  
Pentachlorophenol  
Concen: 0.059 ng/ul  
RT: 17.122 min Scan# 3041  
Delta R.T. 0.004 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 196  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 61.7  | 49.8  | 74.8 |
| 268       | 67.3  | 50.6  | 75.8 |





#15

Phenanthrene

Concen: 0.064 ng/u1

RT: 17.514 min Scan# 3133

Delta R.T. 0.004 min

Lab File: BN021654.D

Acq: 09 Sep 2022 10:53

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-QT2-2022-04

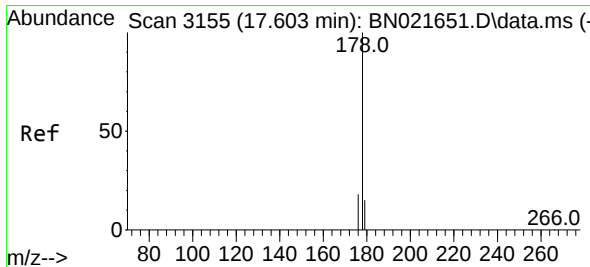
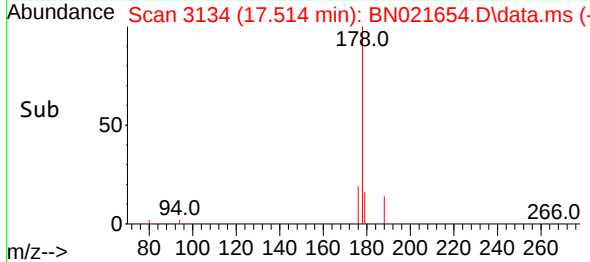
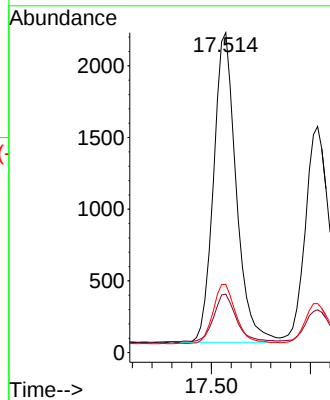
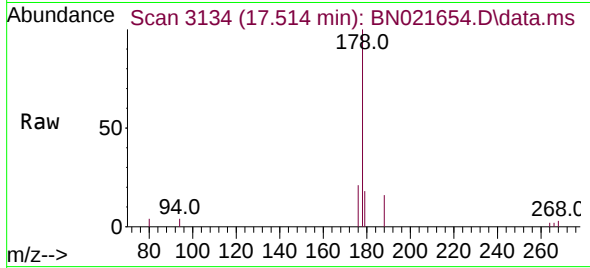
Tgt Ion:178 Resp: 3441

Ion Ratio Lower Upper

178 100

179 18.3 12.8 19.2

176 21.3 15.9 23.9



#16

Anthracene

Concen: 0.061 ng/u1

RT: 17.607 min Scan# 3156

Delta R.T. 0.004 min

Lab File: BN021654.D

Acq: 09 Sep 2022 10:53

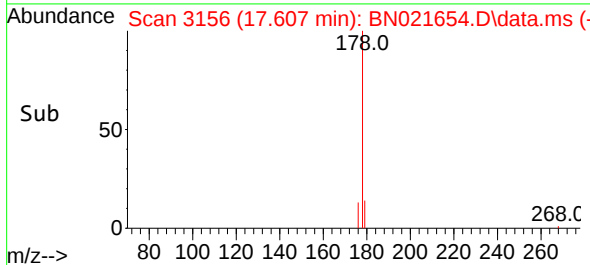
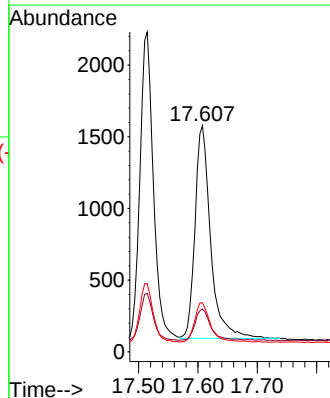
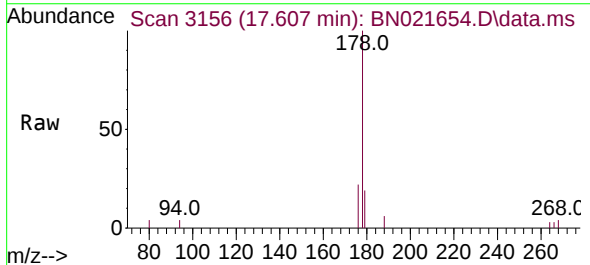
Tgt Ion:178 Resp: 2710

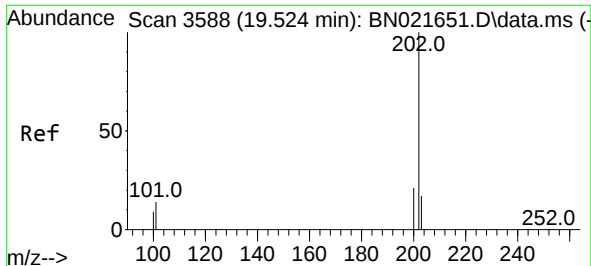
Ion Ratio Lower Upper

178 100

179 18.9 12.9 19.3

176 21.7 15.9 23.9

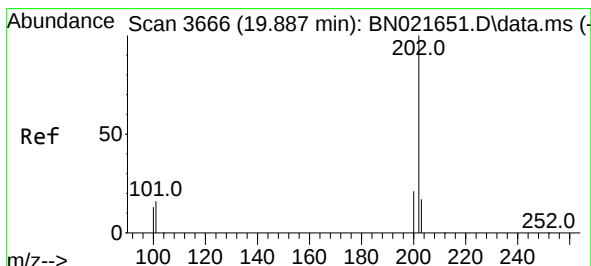
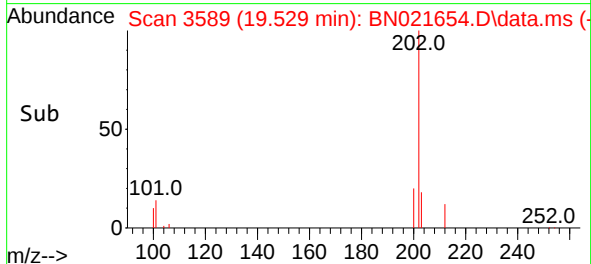
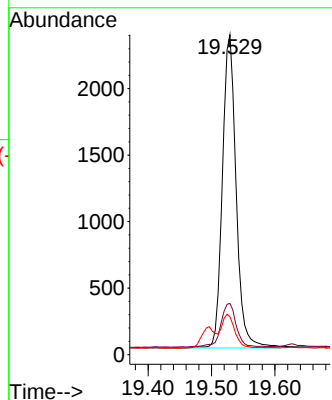
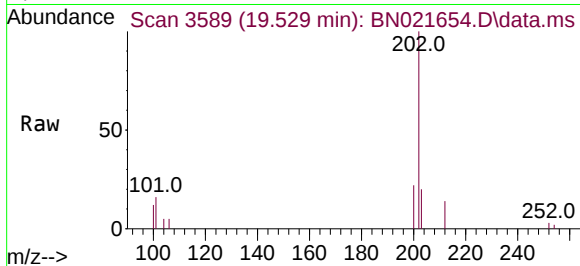




#19  
Fluoranthene  
Concen: 0.073 ng/ul  
RT: 19.529 min Scan# 3589  
Delta R.T. 0.005 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

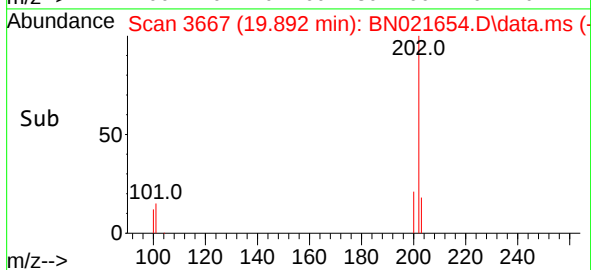
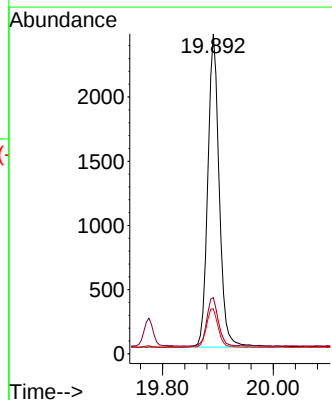
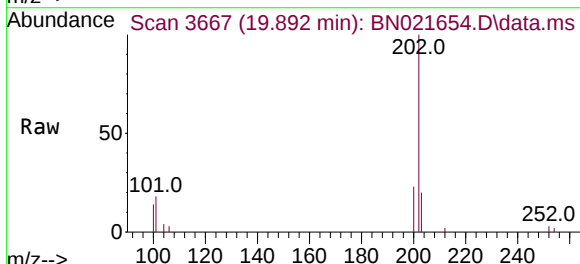
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

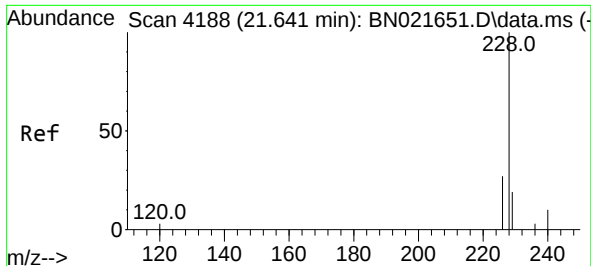
Tgt Ion:202 Resp: 3552  
Ion Ratio Lower Upper  
202 100  
101 16.0 10.0 15.0#  
100 11.8 8.0 12.0



#20  
Pyrene  
Concen: 0.072 ng/ul  
RT: 19.892 min Scan# 3667  
Delta R.T. -0.000 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

Tgt Ion:202 Resp: 3480  
Ion Ratio Lower Upper  
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100 14.1 9.0 13.4#

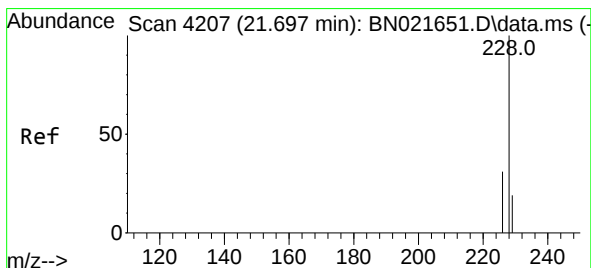
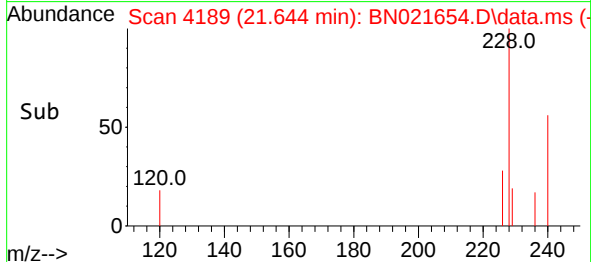
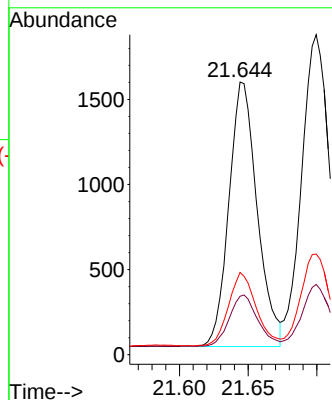
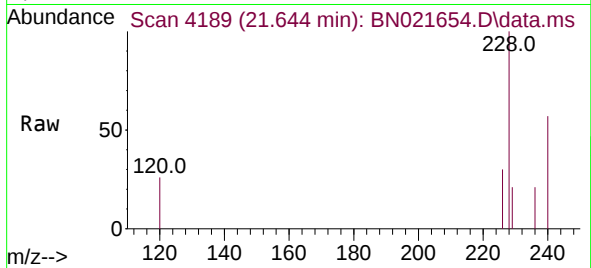




#21  
Benzo(a)anthracene  
Concen: 0.064 ng/ul  
RT: 21.644 min Scan# 4188  
Delta R.T. -0.000 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

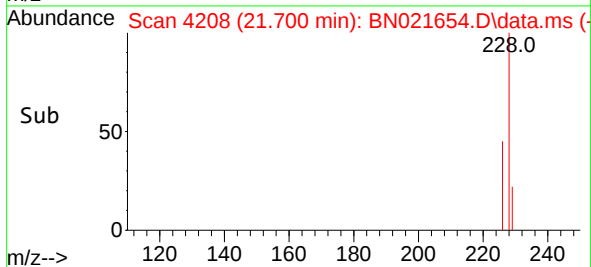
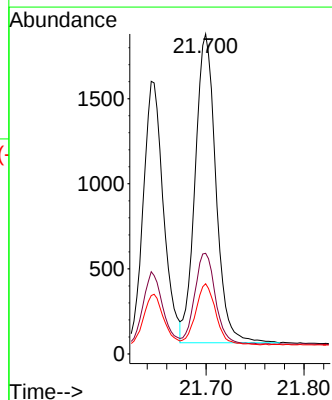
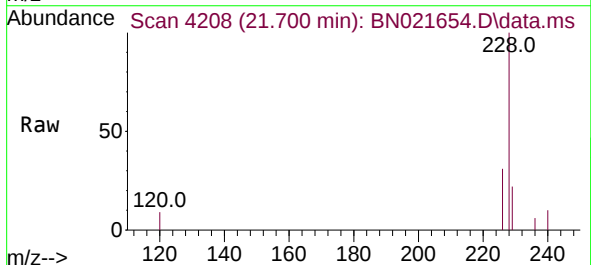
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

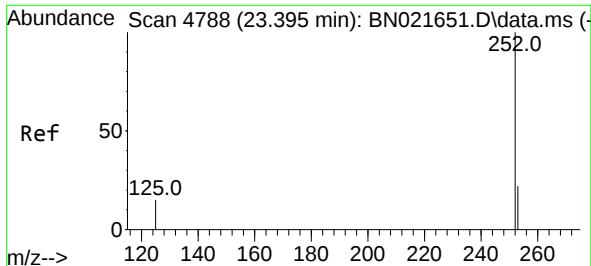
Tgt Ion:228 Resp: 2230  
Ion Ratio Lower Upper  
228 100  
229 21.4 16.0 24.0  
226 30.1 21.9 32.9



#22  
Chrysene  
Concen: 0.070 ng/ul  
RT: 21.700 min Scan# 4208  
Delta R.T. 0.003 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

Tgt Ion:228 Resp: 2658  
Ion Ratio Lower Upper  
228 100  
226 31.4 24.6 37.0  
229 22.0 15.8 23.8

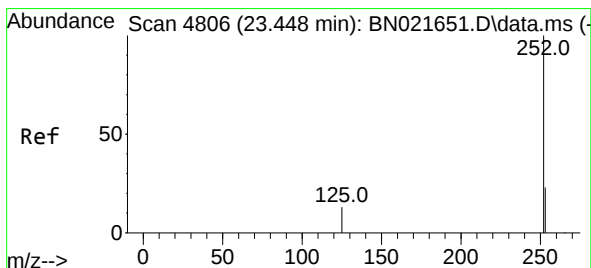
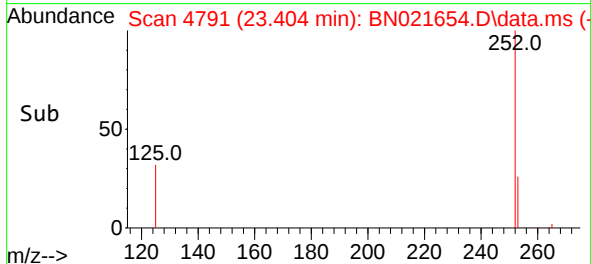
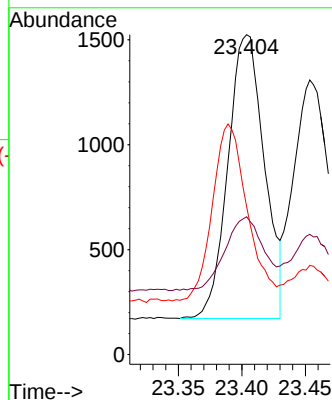
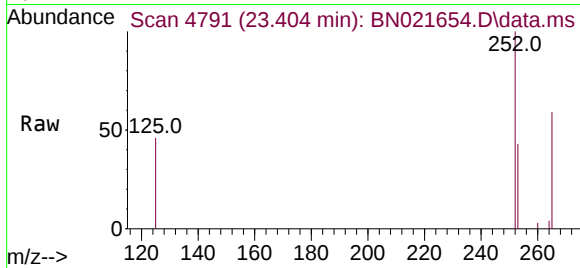




#24  
Benzo(b)fluoranthene  
Concen: 0.072 ng/ul  
RT: 23.404 min Scan# 4791  
Delta R.T. 0.003 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

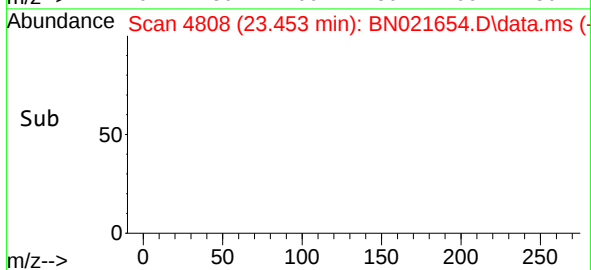
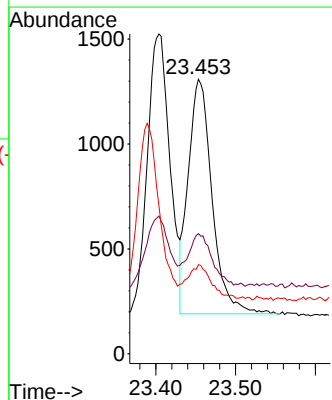
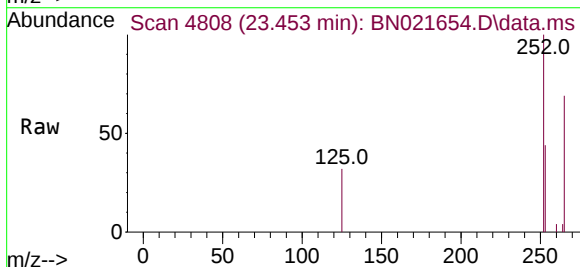
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

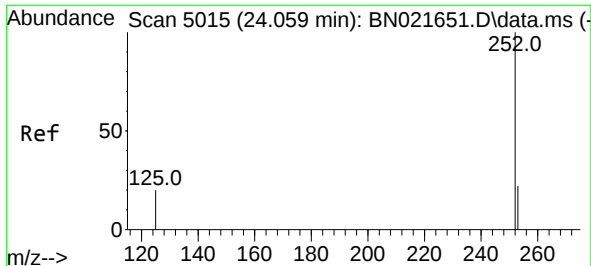
Tgt Ion:252 Resp: 2699  
Ion Ratio Lower Upper  
252 100  
253 43.1 0.0 50.8  
125 46.3 0.0 30.0#



#25  
Benzo(k)fluoranthene  
Concen: 0.064 ng/ul  
RT: 23.453 min Scan# 4808  
Delta R.T. 0.003 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

Tgt Ion:252 Resp: 2328  
Ion Ratio Lower Upper  
252 100  
253 43.8 20.6 31.0#  
125 32.5 11.8 17.6#

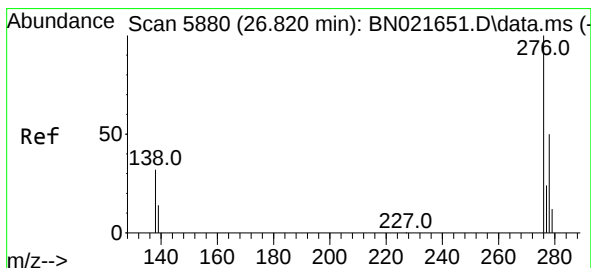
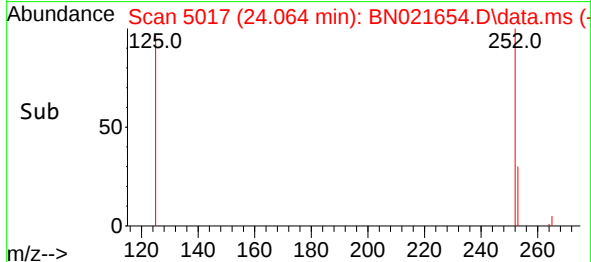
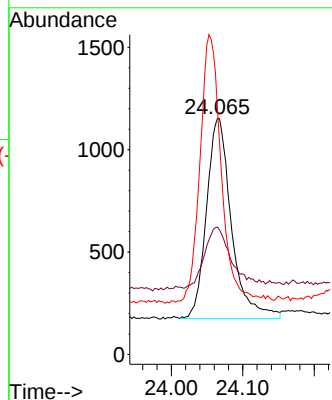
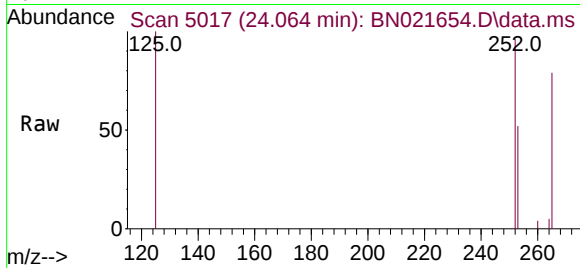




#26  
Benzo(a)pyrene  
Concen: 0.083 ng/ul  
RT: 24.064 min Scan# 5015  
Delta R.T. -0.000 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

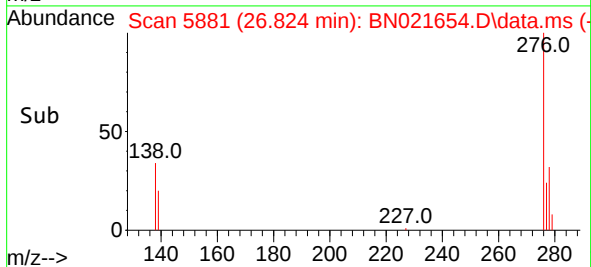
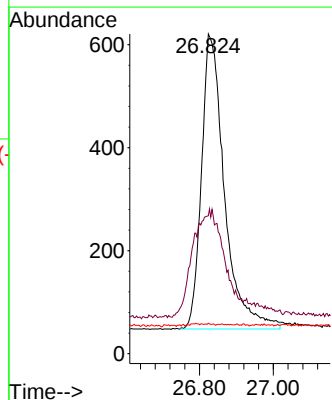
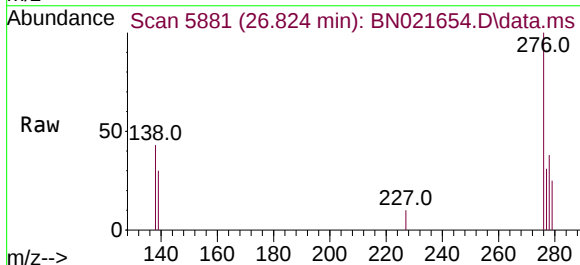
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

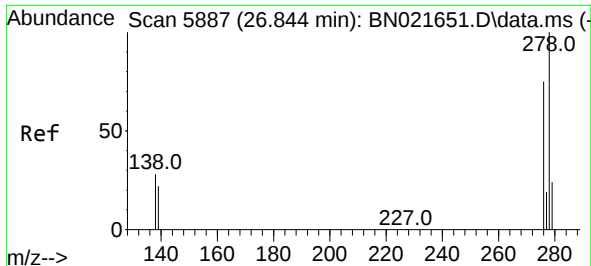
Tgt Ion:252 Resp: 2373  
Ion Ratio Lower Upper  
252 100  
253 53.9 22.1 33.1#  
125 103.9 14.7 22.1#



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.077 ng/ul  
RT: 26.824 min Scan# 5881  
Delta R.T. -0.007 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

Tgt Ion:276 Resp: 2477  
Ion Ratio Lower Upper  
276 100  
138 55.1 26.1 39.1#  
227 0.0 0.1 0.1#

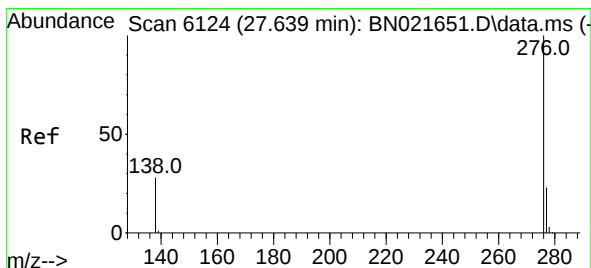
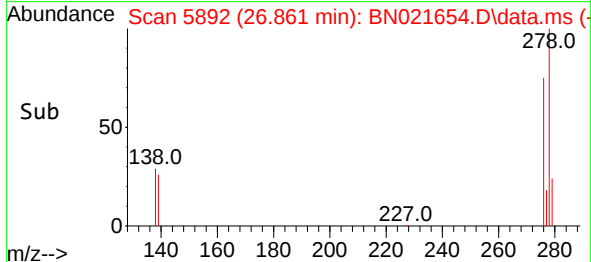
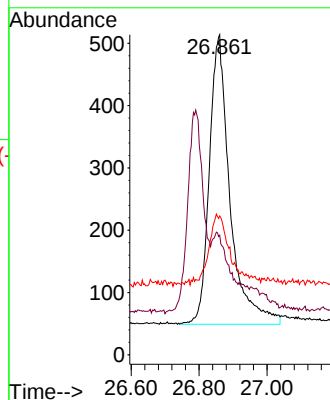
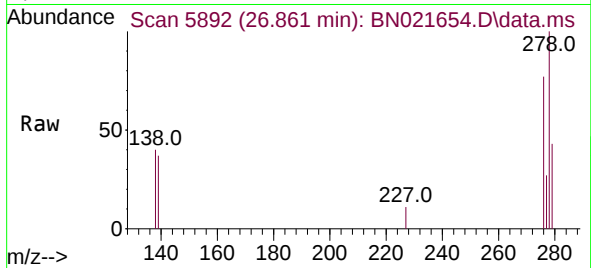




#28  
Dibenzo(a,h)anthracene  
Concen: 0.072 ng/ul  
RT: 26.861 min Scan# 5887  
Delta R.T. 0.010 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT2-2022-04

Tgt Ion:278 Resp: 1963  
Ion Ratio Lower Upper  
278 100  
139 37.4 18.3 27.5#  
279 43.4 23.9 35.9#



#29  
Benzo(g,h,i)perylene  
Concen: 0.069 ng/ul  
RT: 27.649 min Scan# 6127  
Delta R.T. 0.010 min  
Lab File: BN021654.D  
Acq: 09 Sep 2022 10:53

Tgt Ion:276 Resp: 2036  
Ion Ratio Lower Upper  
276 100  
138 39.4 22.6 34.0#  
277 31.4 20.2 30.2#

