

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092023\  
 Data File : BN027777.D  
 Acq On : 20 Sep 2023 23:29  
 Operator : MA/JU  
 Sample : 04367-02MSD 10X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PILE-2MSD

Quant Time: Sep 21 04:24:31 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 20 13:45:42 2023  
 Response via : Initial Calibration

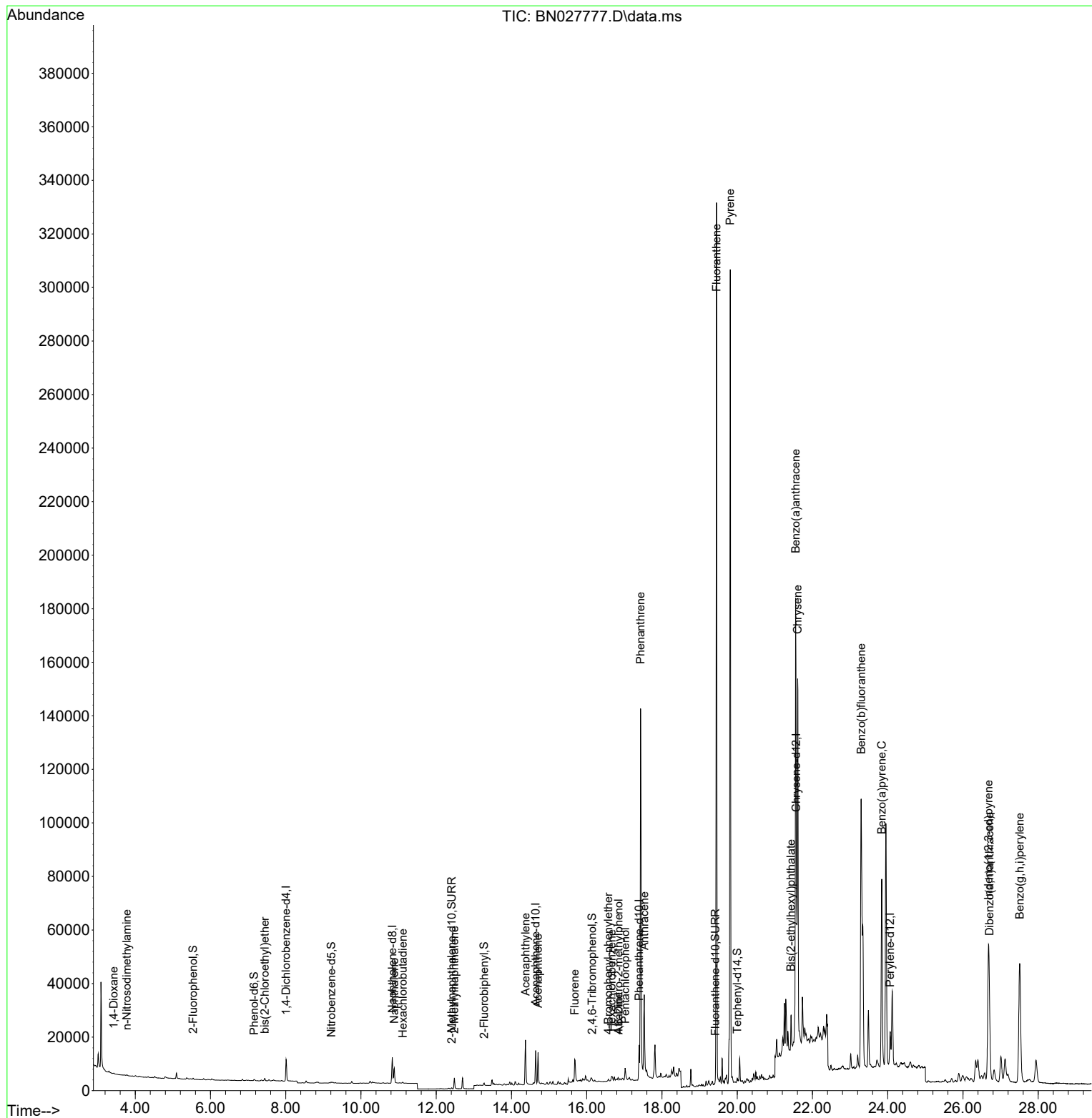
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.008  | 152  | 4121     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.831 | 136  | 13579    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.640 | 164  | 7633     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.393 | 188  | 18715    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.569 | 240  | 19624    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 24.066 | 264  | 20340    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.538  | 112  | 399      | 0.038 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.156  | 99   | 455      | 0.035 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 9.208  | 82   | 447      | 0.042 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.407 | 152  | 591      | 0.030 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 16.139 | 330  | 100      | 0.031 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.272 | 172  | 938      | 0.036 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.416 | 212  | 1787     | 0.037 | ng    | 0.00     |
| 31) Terphenyl-d14             | 20.001 | 244  | 1670     | 0.044 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.429  | 88   | 250      | 0.050 | ng    | # 63     |
| 3) n-Nitrosodimethylamine     | 3.776  | 42   | 228      | 0.039 | ng    | # 85     |
| 6) bis(2-Chloroethyl)ether    | 7.445  | 93   | 558      | 0.044 | ng    | 96       |
| 9) Naphthalene                | 10.885 | 128  | 7669     | 0.204 | ng    | 99       |
| 10) Hexachlorobutadiene       | 11.109 | 225  | 291      | 0.044 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.483 | 142  | 3117     | 0.119 | ng    | 97       |
| 16) Acenaphthylene            | 14.373 | 152  | 21014    | 0.644 | ng    | 100      |
| 17) Acenaphthene              | 14.705 | 154  | 5860     | 0.253 | ng    | 99       |
| 18) Fluorene                  | 15.680 | 166  | 8378     | 0.250 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 16.847 | 198  | 21       | 0.076 | ng    | # 50     |
| 21) 4-Bromophenyl-phenylether | 16.574 | 248  | 360      | 0.038 | ng    | # 65     |
| 22) Hexachlorobenzene         | 16.661 | 284  | 509      | 0.047 | ng    | 89       |
| 23) Atrazine                  | 16.847 | 200  | 338      | 0.048 | ng    | # 78     |
| 24) Pentachlorophenol         | 17.021 | 266  | 2160     | 0.598 | ng    | 98       |
| 25) Phenanthrene              | 17.430 | 178  | 157243   | 2.872 | ng    | 100      |
| 26) Anthracene                | 17.530 | 178  | 41453    | 0.885 | ng    | 99       |
| 28) Fluoranthene              | 19.449 | 202  | 292026   | 4.340 | ng    | 99       |
| 30) Pyrene                    | 19.816 | 202  | 275077   | 3.902 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.551 | 228  | 154277   | 2.265 | ng    | 97       |
| 33) Chrysene                  | 21.605 | 228  | 140282   | 1.871 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 21.426 | 149  | 12626    | 0.419 | ng    | 96       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.679 | 276  | 96915    | 1.120 | ng    | 94       |
| 37) Benzo(b)fluoranthene      | 23.294 | 252  | 190349   | 2.367 | ng    | 95       |
| 39) Benzo(a)pyrene            | 23.841 | 252  | 103750   | 1.420 | ng    | 95       |
| 40) Dibenzo(a,h)anthracene    | 26.700 | 278  | 22987    | 0.325 | ng    | # 86     |
| 41) Benzo(g,h,i)perylene      | 27.510 | 276  | 102634   | 1.314 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

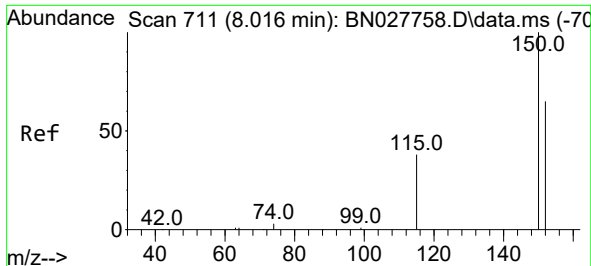
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092023\  
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Sample : 04367-02MSD 10X  
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ALS Vial : 22 Sample Multiplier: 1

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ClientSampleId :  
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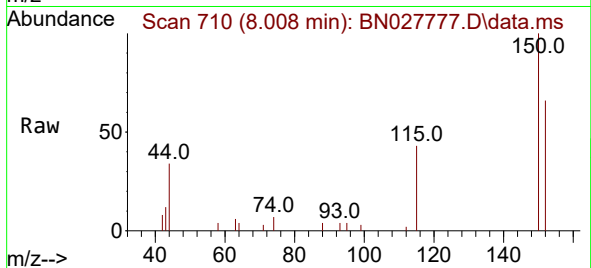
Quant Time: Sep 21 04:24:31 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 20 13:45:42 2023  
Response via : Initial Calibration



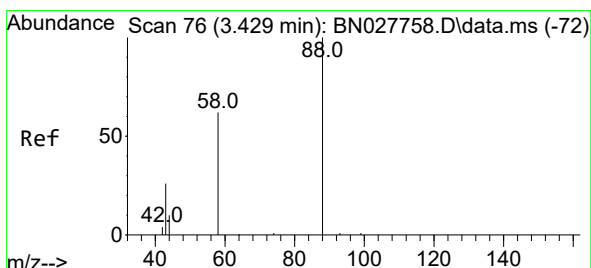
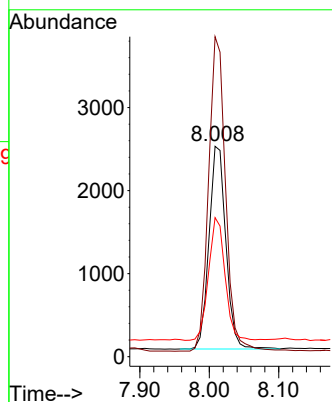
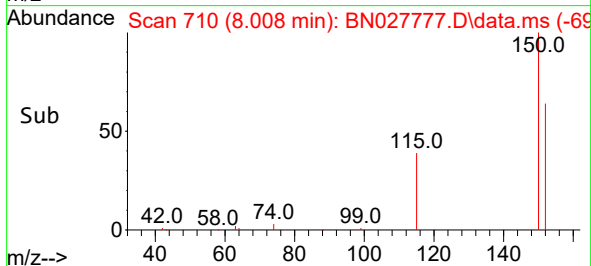


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 8.008 min Scan# 71  
 Delta R.T. -0.008 min  
 Lab File: BN027777.D  
 Acq: 20 Sep 2023 23:29

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PILE-2MSD

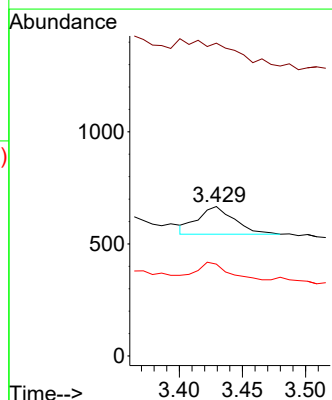
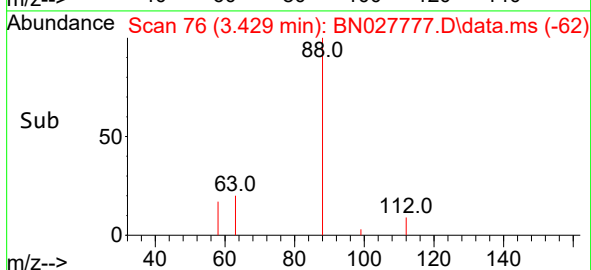
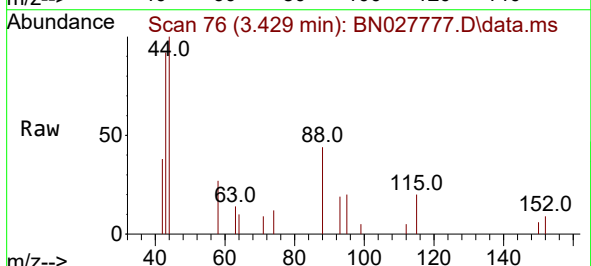


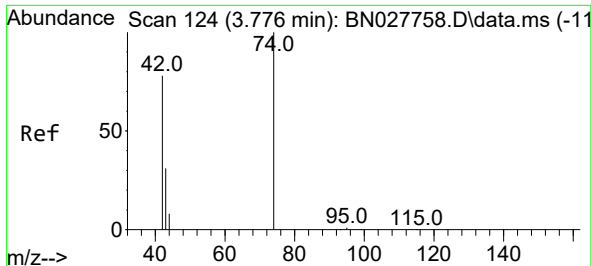
Tgt Ion:152 Resp: 4121  
 Ion Ratio Lower Upper  
 152 100  
 150 152.1 120.2 180.2  
 115 66.1 54.5 81.7



#2  
 1,4-Dioxane  
 Concen: 0.050 ng  
 RT: 3.429 min Scan# 76  
 Delta R.T. -0.000 min  
 Lab File: BN027777.D  
 Acq: 20 Sep 2023 23:29

Tgt Ion: 88 Resp: 250  
 Ion Ratio Lower Upper  
 88 100  
 43 0.0 27.0 40.6#  
 58 50.8 59.0 88.6#

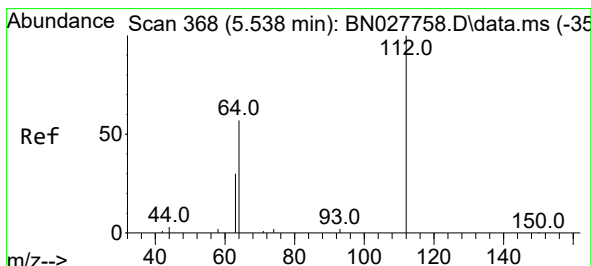
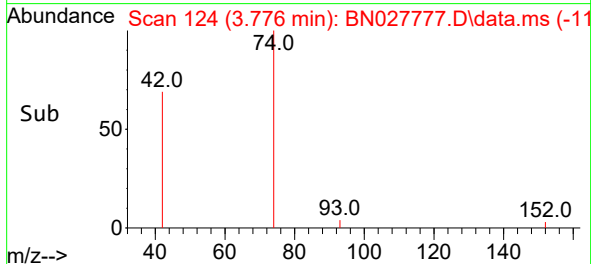
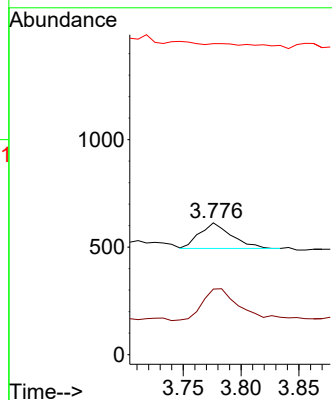
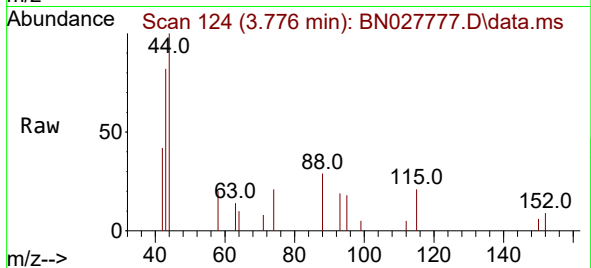




#3  
n-Nitrosodimethylamine  
Concen: 0.039 ng  
RT: 3.776 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

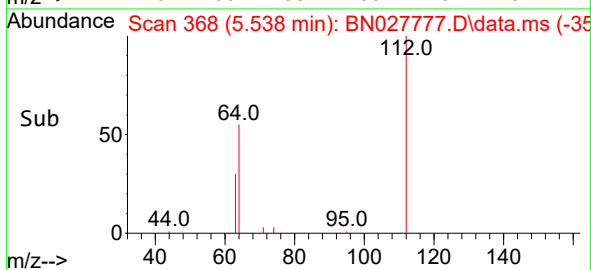
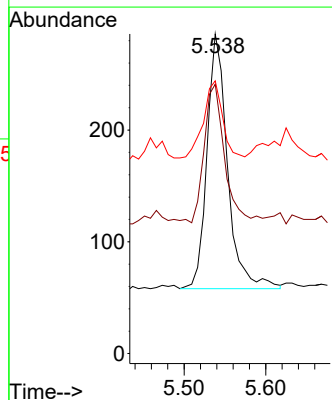
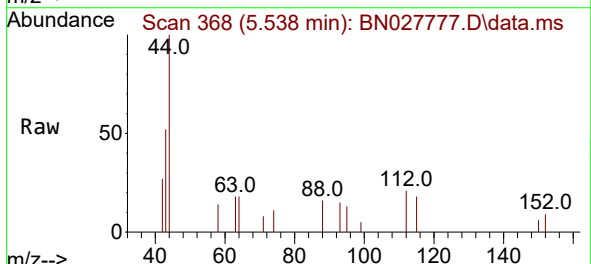
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

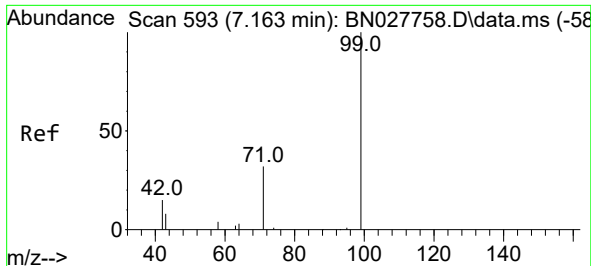
Tgt Ion: 42 Resp: 228  
Ion Ratio Lower Upper  
42 100  
74 146.9 105.6 158.4  
44 0.0 12.3 18.5#



#4  
2-Fluorophenol  
Concen: 0.038 ng  
RT: 5.538 min Scan# 368  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

Tgt Ion: 112 Resp: 399  
Ion Ratio Lower Upper  
112 100  
64 51.4 46.1 69.1  
63 28.1 24.0 36.0

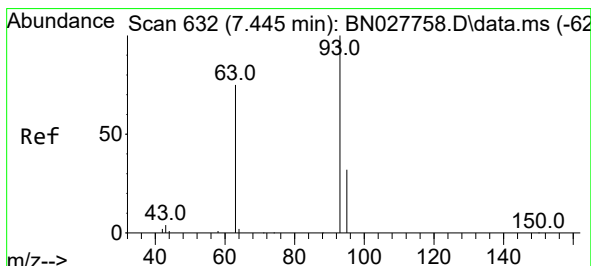
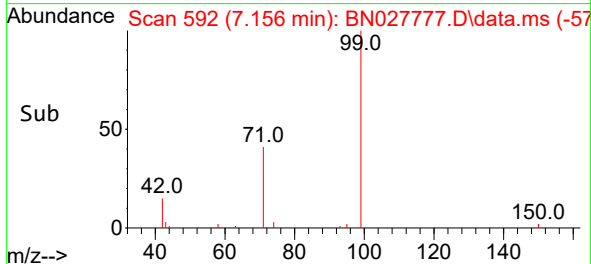
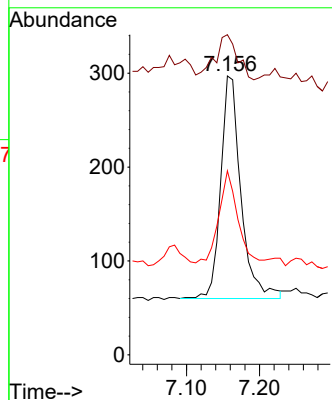
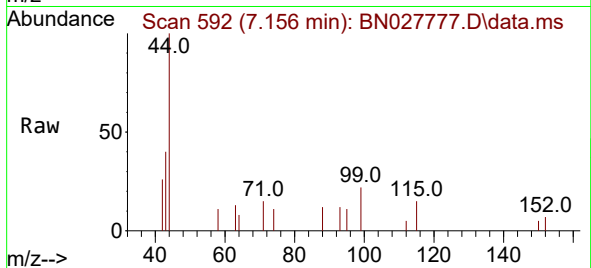




#5  
Phenol-d6  
Concen: 0.035 ng  
RT: 7.156 min Scan# 592  
Delta R.T. -0.007 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

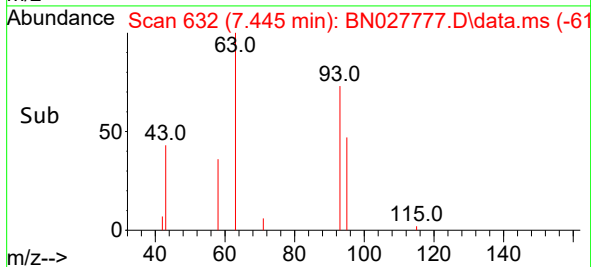
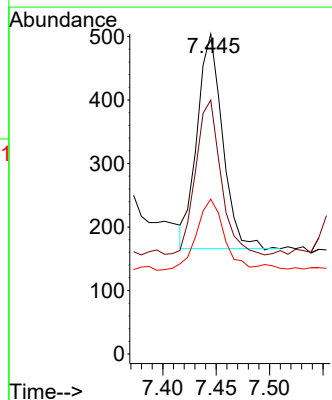
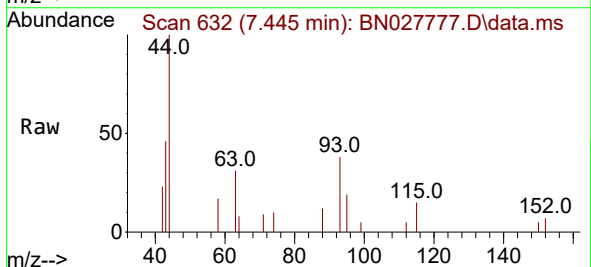
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

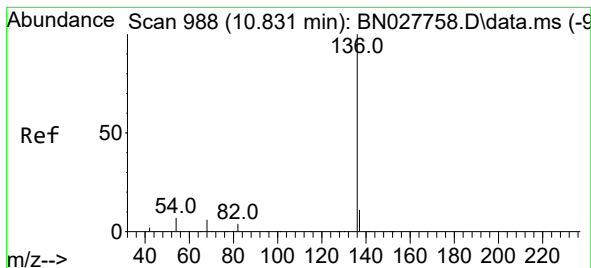
Tgt Ion: 99 Resp: 455  
Ion Ratio Lower Upper  
99 100  
42 21.8 16.6 25.0  
71 40.2 28.1 42.1



#6  
bis(2-Chloroethyl)ether  
Concen: 0.044 ng  
RT: 7.445 min Scan# 632  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

Tgt Ion: 93 Resp: 558  
Ion Ratio Lower Upper  
93 100  
63 72.6 59.5 89.3  
95 36.4 26.0 39.0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.831 min Scan# 988

Delta R.T. -0.000 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

Instrument :

BNA\_N

ClientSampleId :

PILE-2MSD

Tgt Ion:136 Resp: 13579

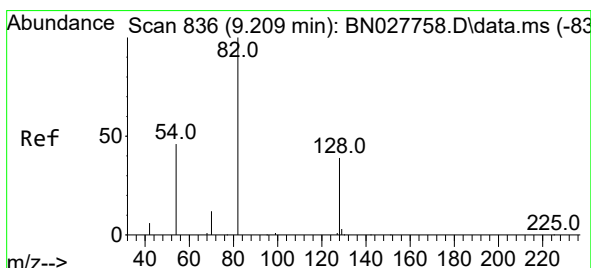
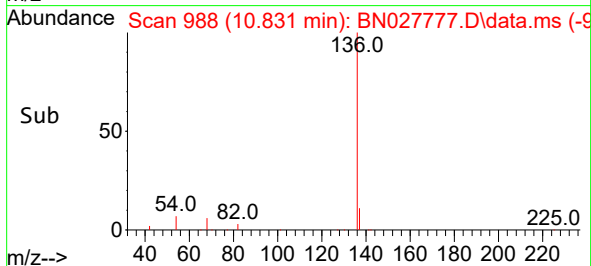
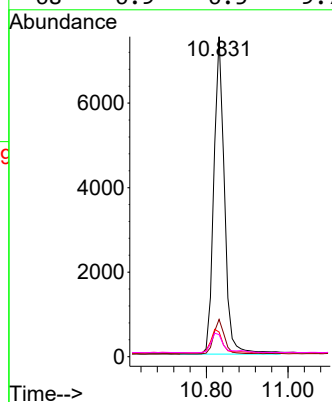
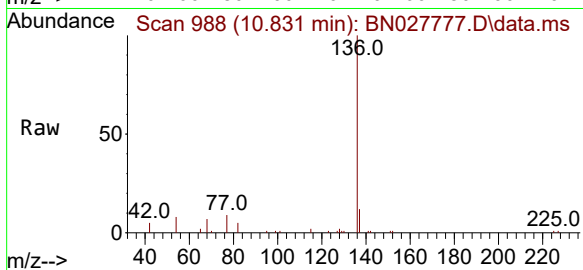
Ion Ratio Lower Upper

136 100

137 11.7 10.1 15.1

54 7.7 7.4 11.0

68 6.9 6.5 9.7



#8

Nitrobenzene-d5

Concen: 0.042 ng

RT: 9.208 min Scan# 836

Delta R.T. -0.000 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

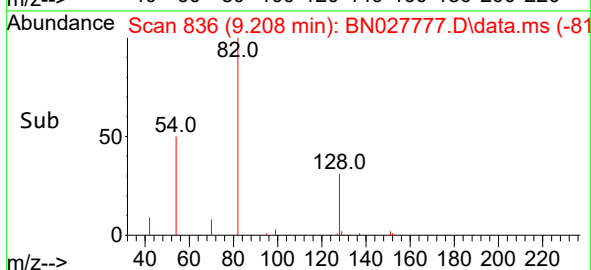
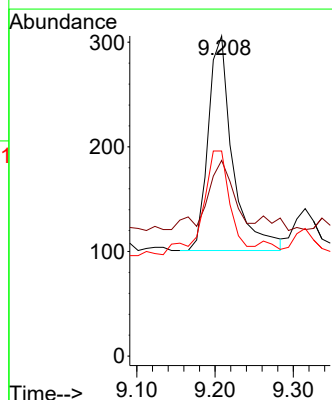
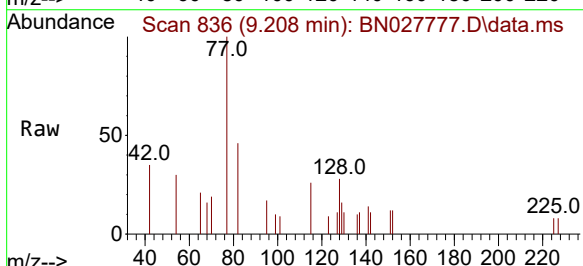
Tgt Ion: 82 Resp: 447

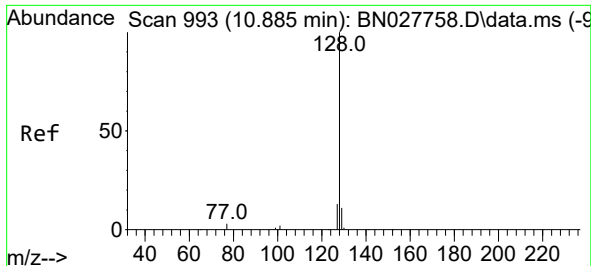
Ion Ratio Lower Upper

82 100

128 61.1 36.8 55.2#

54 64.1 39.9 59.9#

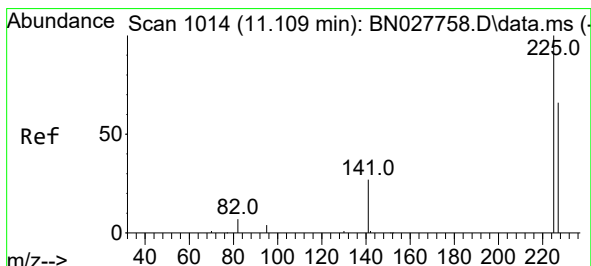
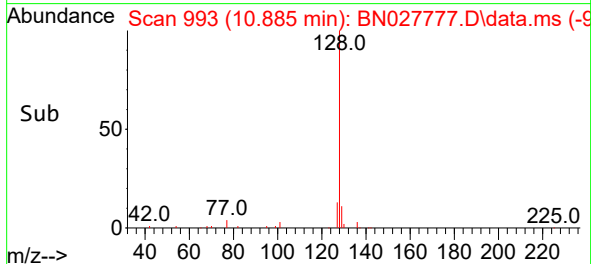
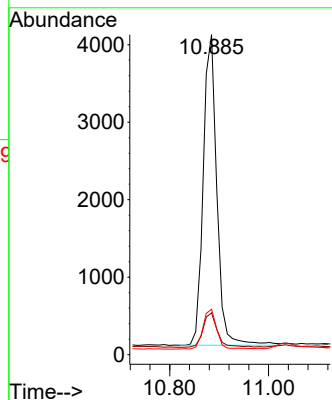
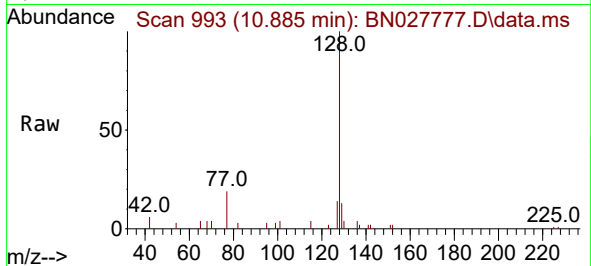




#9  
Naphthalene  
Concen: 0.204 ng  
RT: 10.885 min Scan# 993  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

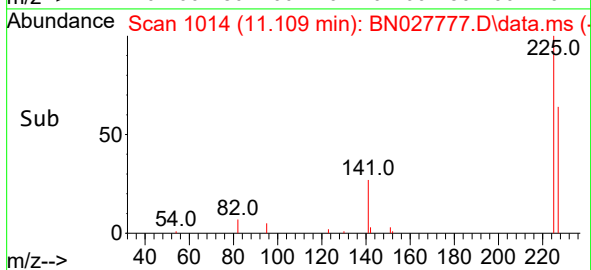
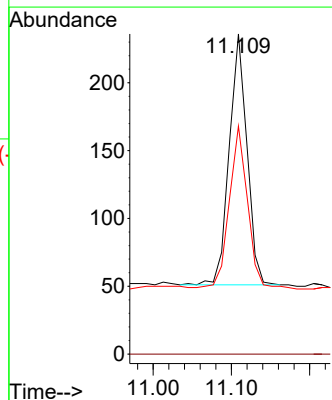
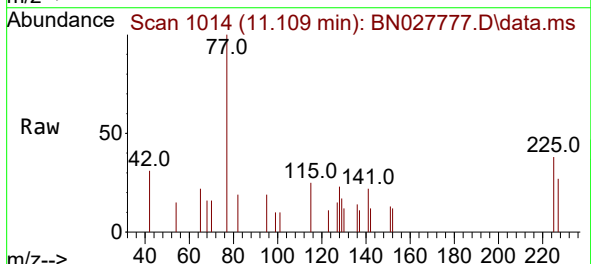
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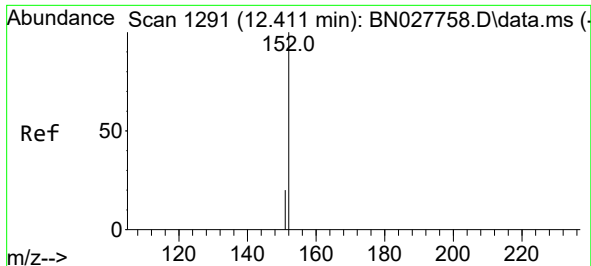
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|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7669  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 13.1  | 10.2  | 15.2  |
| 127      | 14.2  | 11.1  | 16.7  |



#10  
Hexachlorobutadiene  
Concen: 0.044 ng  
RT: 11.109 min Scan# 1014  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 291   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 64.9  | 51.4  | 77.0  |

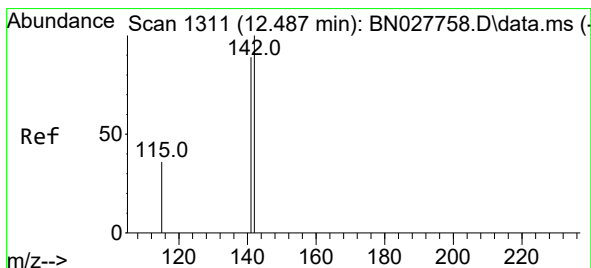
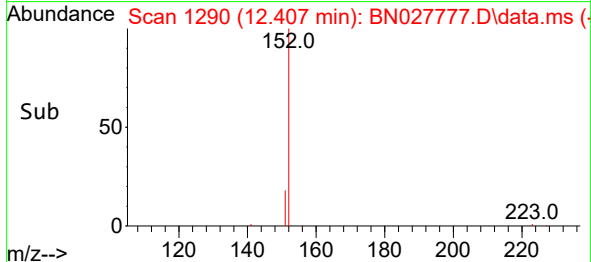
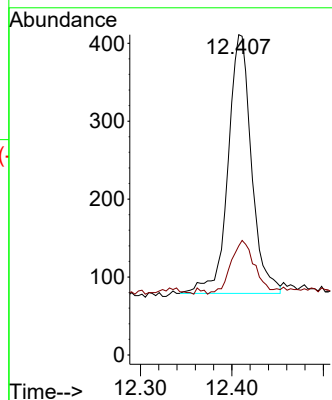
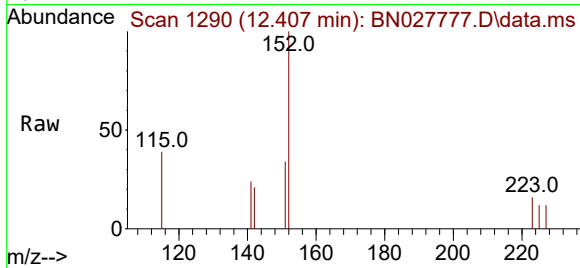




#11  
2-Methylnaphthalene-d10  
Concen: 0.030 ng  
RT: 12.407 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

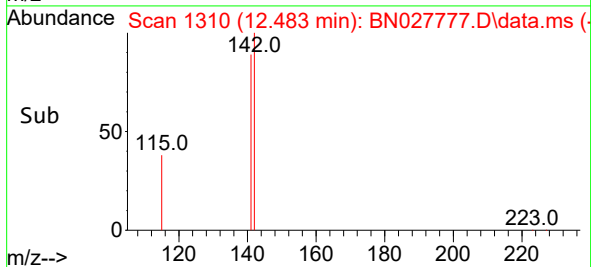
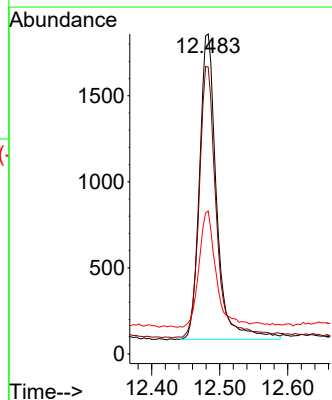
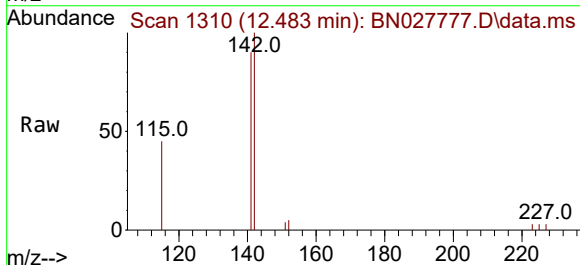
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

Tgt Ion:152 Resp: 591  
Ion Ratio Lower Upper  
152 100  
151 21.3 15.6 23.4

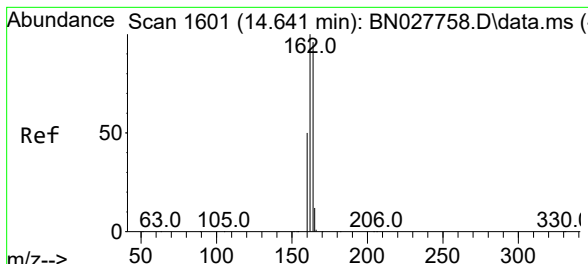


#12  
2-Methylnaphthalene  
Concen: 0.119 ng  
RT: 12.483 min Scan# 1310  
Delta R.T. -0.004 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

Tgt Ion:142 Resp: 3117  
Ion Ratio Lower Upper  
142 100  
141 89.7 71.5 107.3  
115 44.6 31.8 47.6



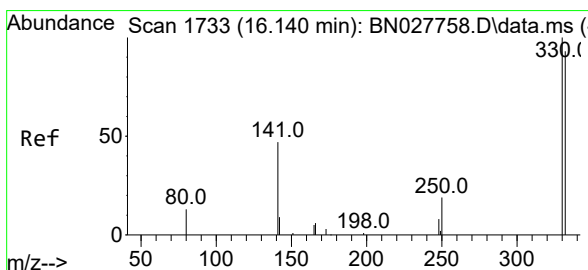
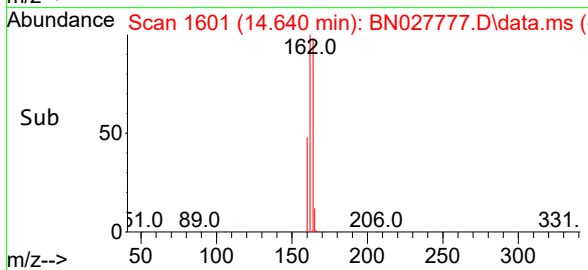
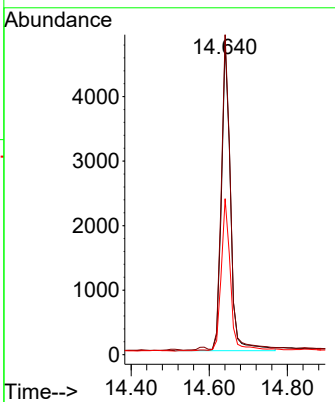
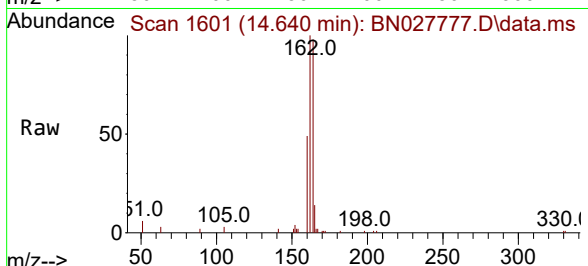




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.640 min Scan# 1601  
 Delta R.T. -0.000 min  
 Lab File: BN027777.D  
 Acq: 20 Sep 2023 23:29

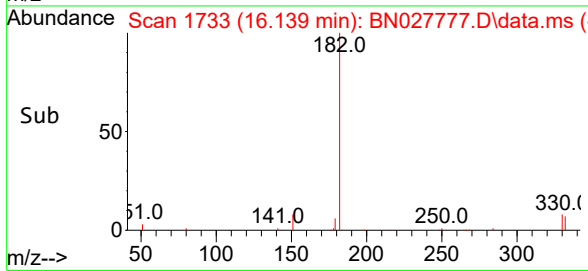
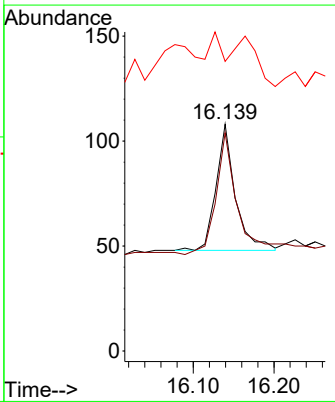
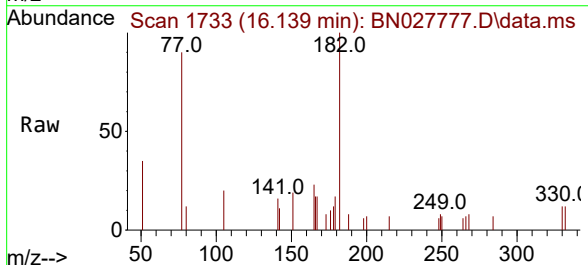
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PILE-2MSD

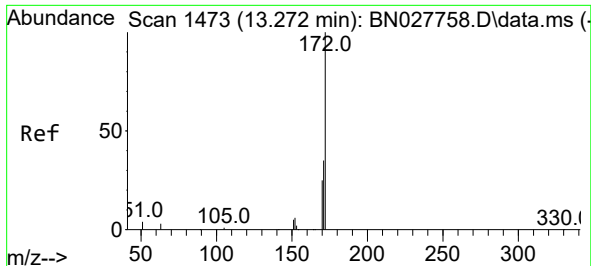
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 7633  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 102.4 | 83.6  | 125.4 |
| 160      | 49.9  | 42.6  | 64.0  |



#14  
 2,4,6-Tribromophenol  
 Concen: 0.031 ng  
 RT: 16.139 min Scan# 1733  
 Delta R.T. -0.000 min  
 Lab File: BN027777.D  
 Acq: 20 Sep 2023 23:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 100   |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 112.0 | 77.0  | 115.4 |
| 141      | 10.0  | 38.1  | 57.1  |

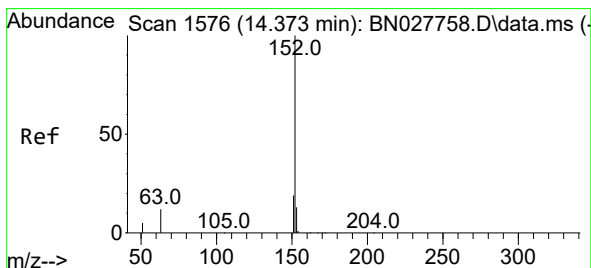
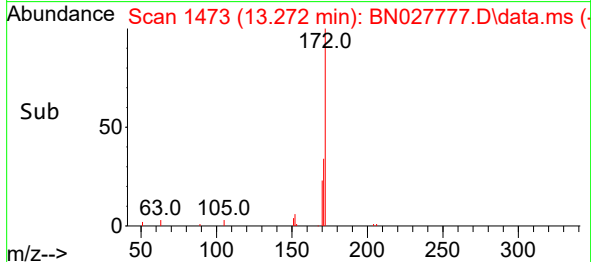
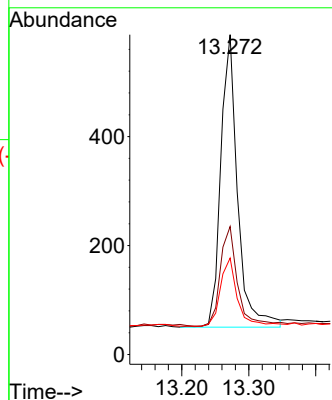
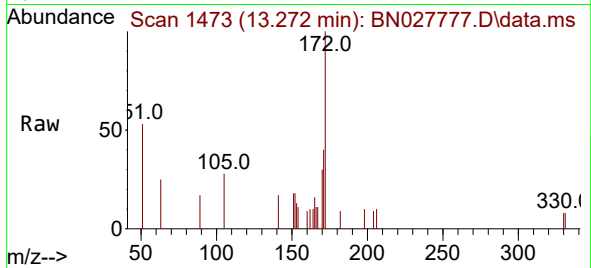




#15  
2-Fluorobiphenyl  
Concen: 0.036 ng  
RT: 13.272 min Scan# 1473  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

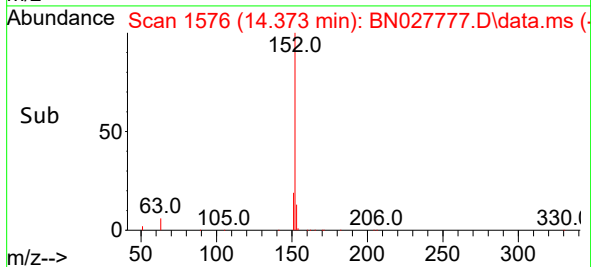
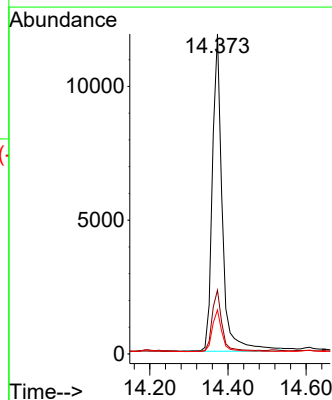
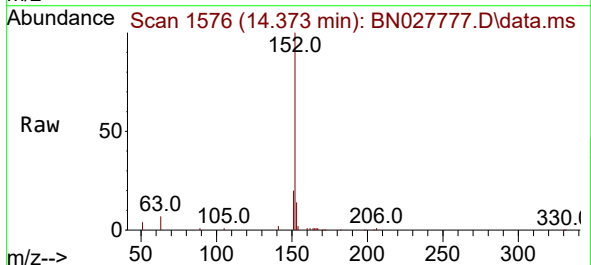
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

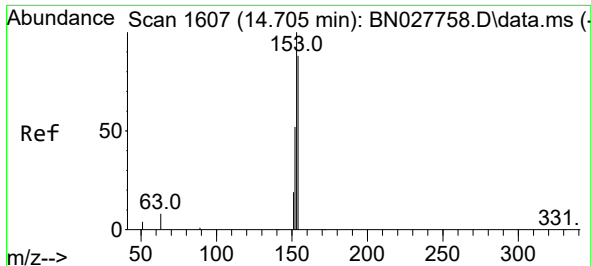
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 938  |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 40.0  | 29.3  | 43.9 |
| 170       | 30.2  | 20.8  | 31.2 |



#16  
Acenaphthylene  
Concen: 0.644 ng  
RT: 14.373 min Scan# 1576  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 21014 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.4  | 15.4  | 23.2  |
| 153       | 13.0  | 10.6  | 15.8  |

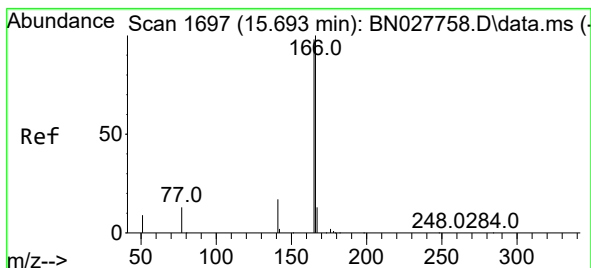
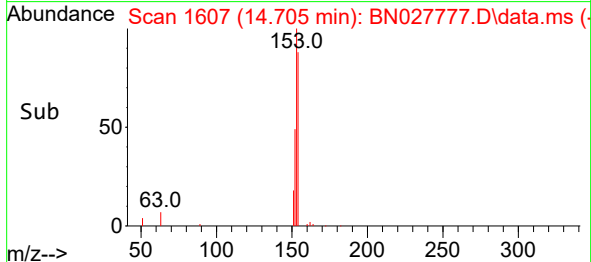
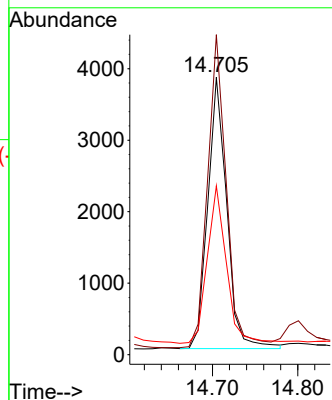
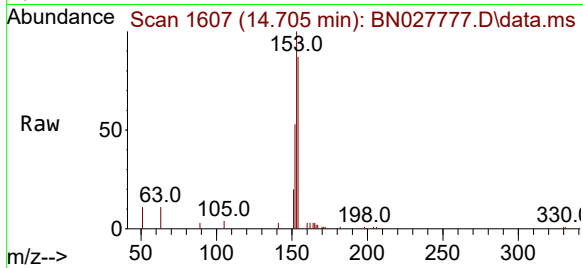




#17  
Acenaphthene  
Concen: 0.253 ng  
RT: 14.705 min Scan# 1607  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

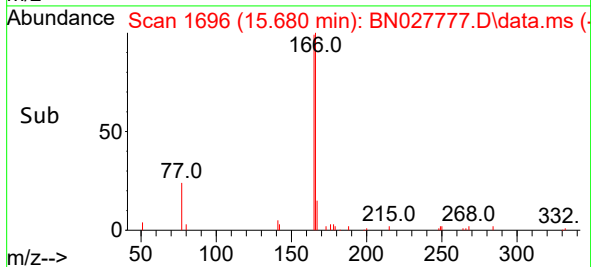
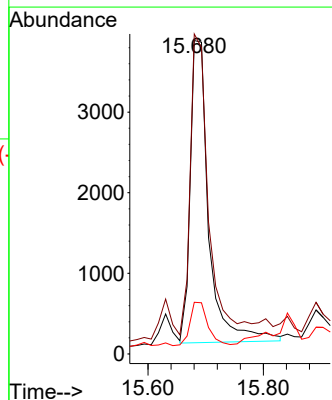
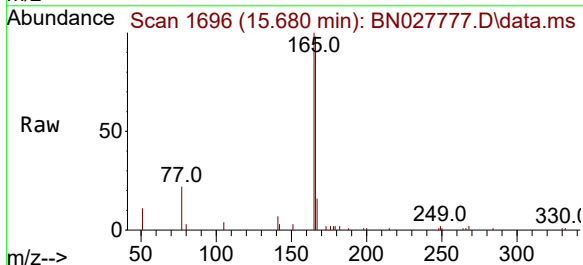
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

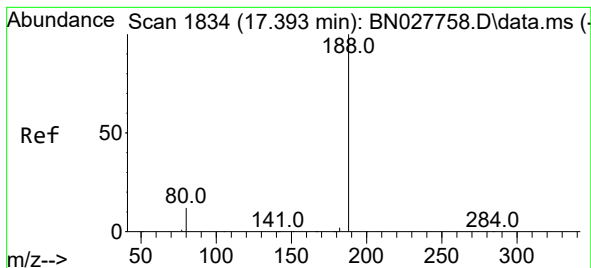
Tgt Ion:154 Resp: 5860  
Ion Ratio Lower Upper  
154 100  
153 114.6 91.0 136.6  
152 59.4 47.4 71.2



#18  
Fluorene  
Concen: 0.250 ng  
RT: 15.680 min Scan# 1696  
Delta R.T. -0.013 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

Tgt Ion:166 Resp: 8378  
Ion Ratio Lower Upper  
166 100  
165 97.3 79.3 118.9  
167 13.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.393 min Scan# 1834

Delta R.T. -0.000 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

Instrument :

BNA\_N

ClientSampleId :

PILE-2MSD

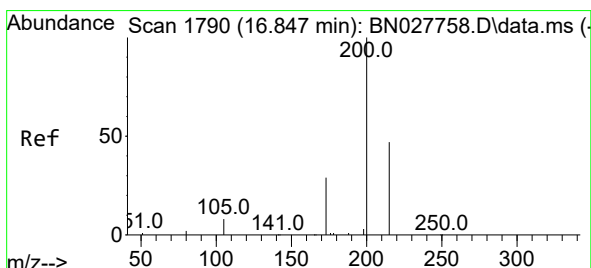
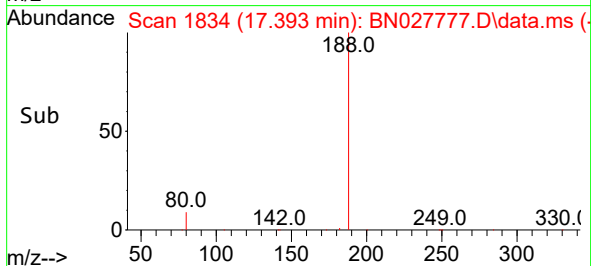
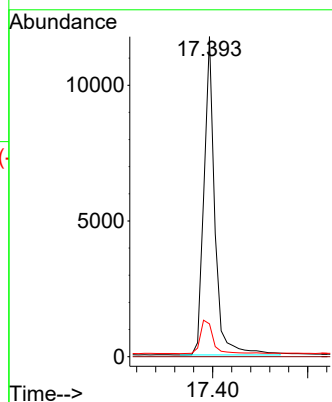
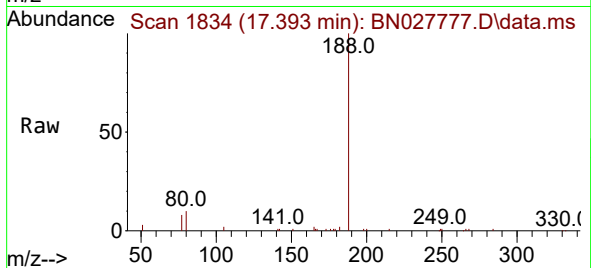
Tgt Ion:188 Resp: 18715

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 10.6 16.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.076 ng

RT: 16.847 min Scan# 1790

Delta R.T. -0.000 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

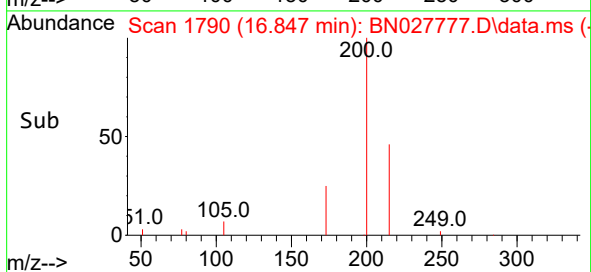
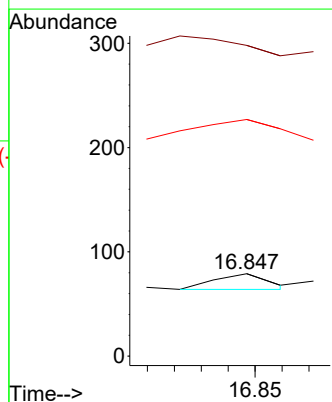
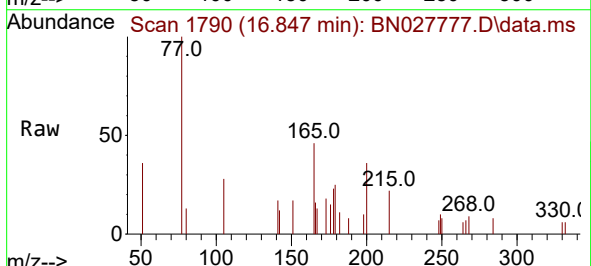
Tgt Ion:198 Resp: 21

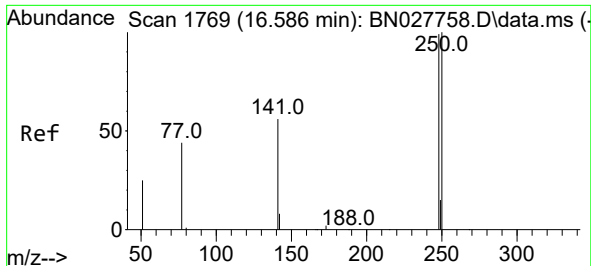
Ion Ratio Lower Upper

198 100

51 377.2 225.2 337.8#

105 287.3 168.9 253.3#

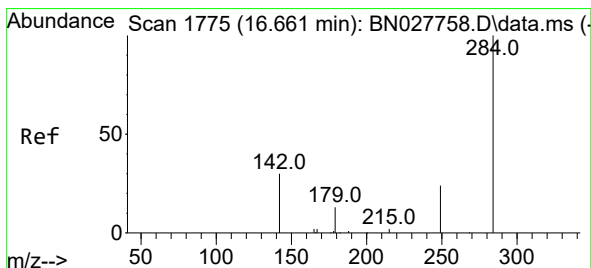
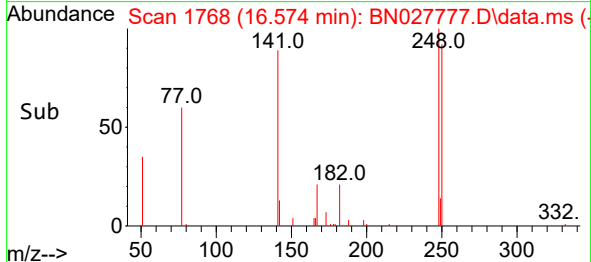
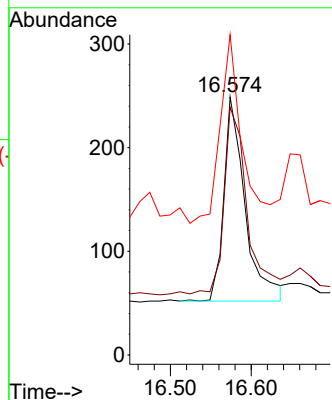
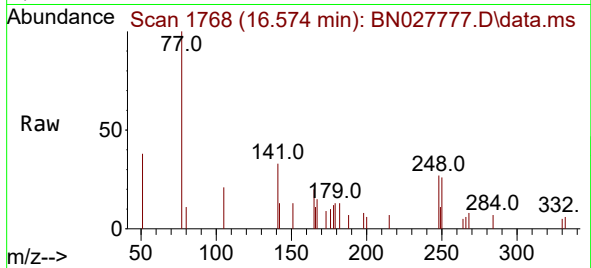




#21  
4-Bromophenyl-phenylether  
Concen: 0.038 ng  
RT: 16.574 min Scan# 1768  
Delta R.T. -0.013 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

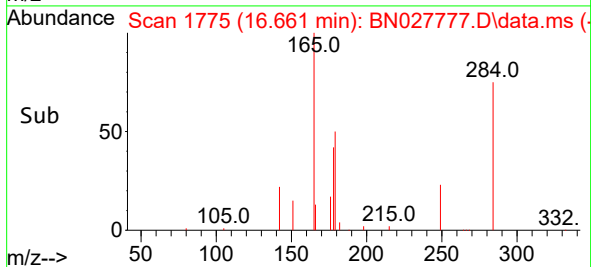
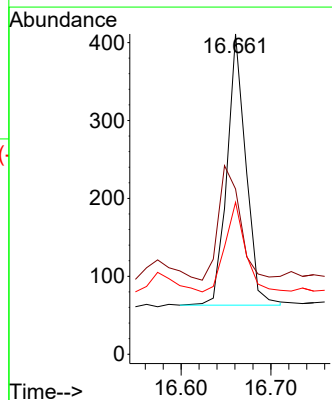
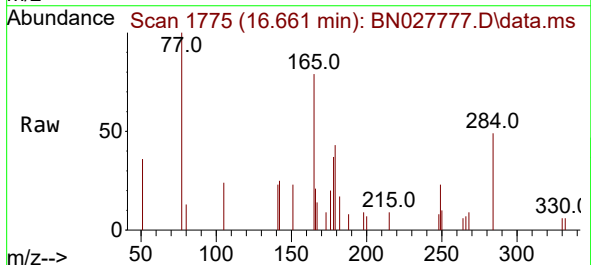
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

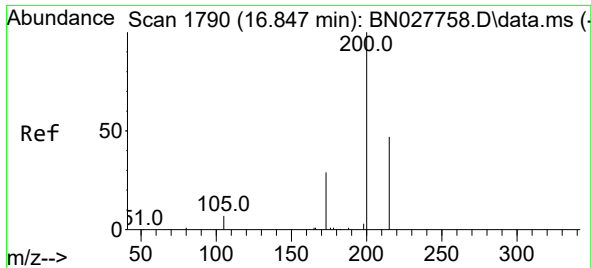
Tgt Ion:248 Resp: 360  
Ion Ratio Lower Upper  
248 100  
250 96.0 81.4 122.2  
141 124.1 48.2 72.4#



#22  
Hexachlorobenzene  
Concen: 0.047 ng  
RT: 16.661 min Scan# 1775  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

Tgt Ion:284 Resp: 509  
Ion Ratio Lower Upper  
284 100  
142 48.7 32.9 49.3  
249 35.4 24.1 36.1

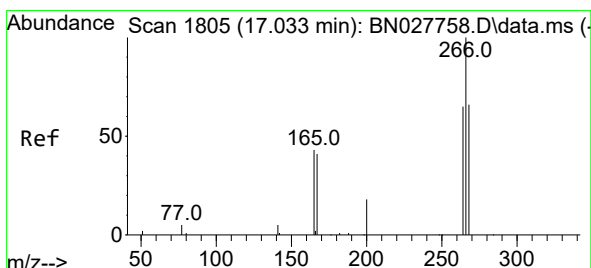
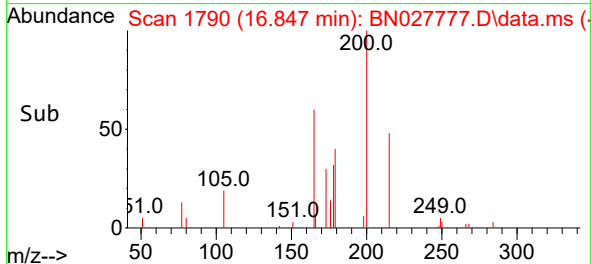
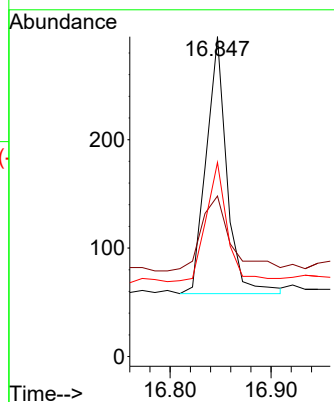
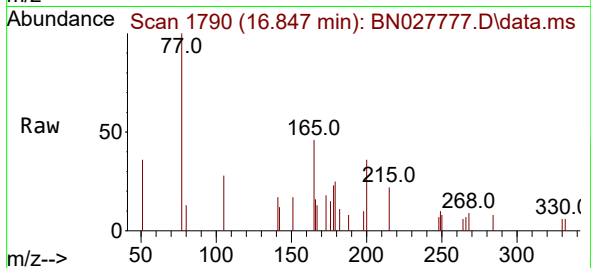




#23  
Atrazine  
Concen: 0.048 ng  
RT: 16.847 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

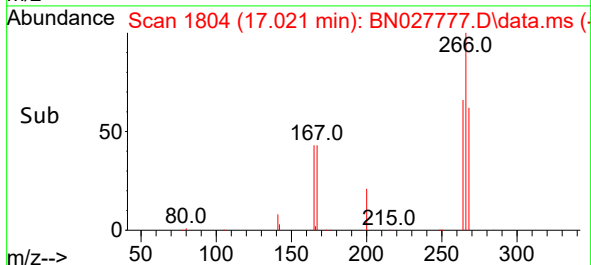
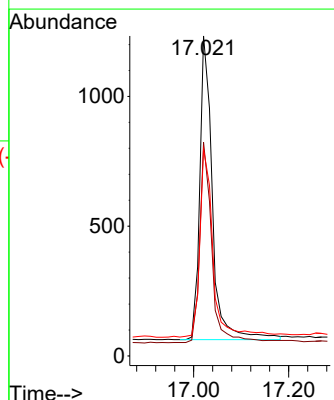
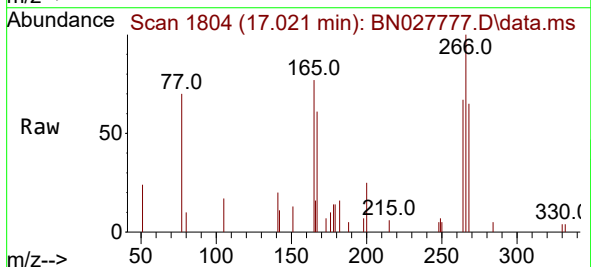
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

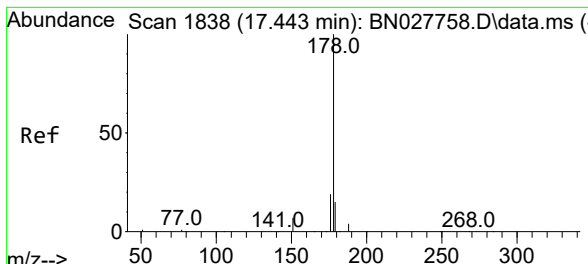
Tgt Ion:200 Resp: 338  
Ion Ratio Lower Upper  
200 100  
173 50.2 26.1 39.1#  
215 60.7 40.0 60.0#



#24  
Pentachlorophenol  
Concen: 0.598 ng  
RT: 17.021 min Scan# 1804  
Delta R.T. -0.012 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

Tgt Ion:266 Resp: 2160  
Ion Ratio Lower Upper  
266 100  
264 62.6 50.8 76.2  
268 64.5 53.0 79.6

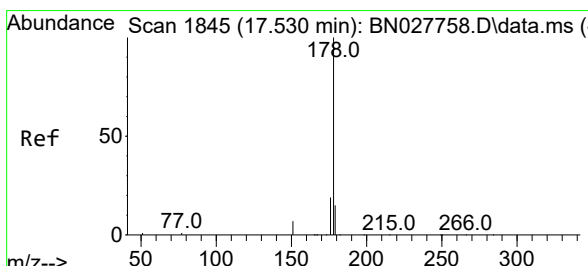
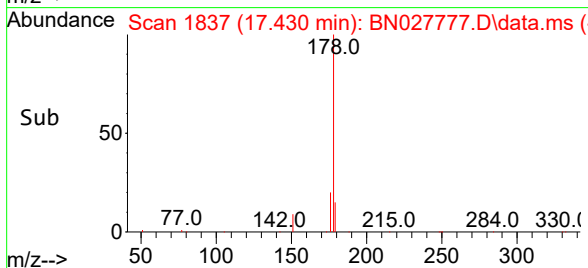
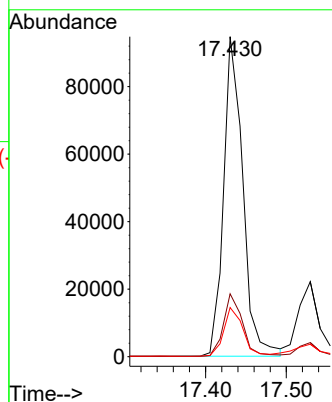
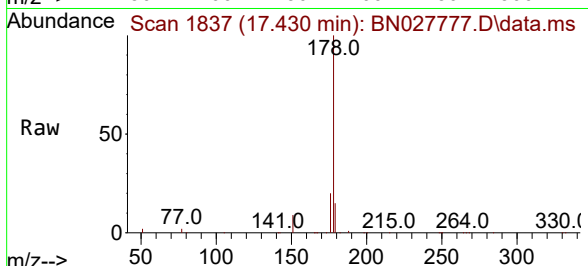




#25  
Phenanthrene  
Concen: 2.872 ng  
RT: 17.430 min Scan# 1837  
Delta R.T. -0.013 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

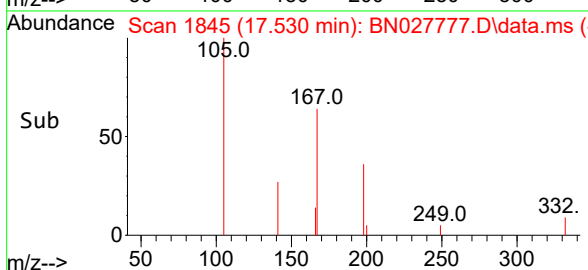
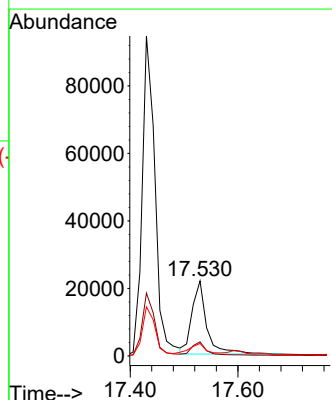
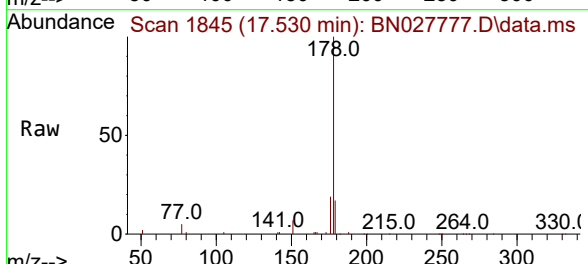
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

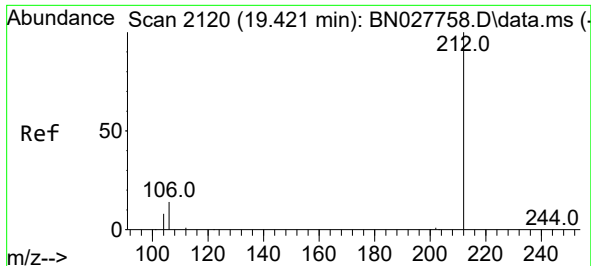
Tgt Ion:178 Resp: 157243  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.5 23.3  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.885 ng  
RT: 17.530 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

Tgt Ion:178 Resp: 41453  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.2 22.8  
179 14.7 12.2 18.2

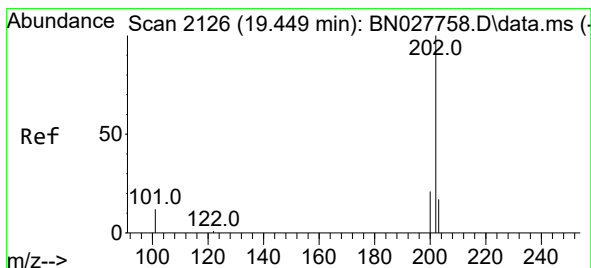
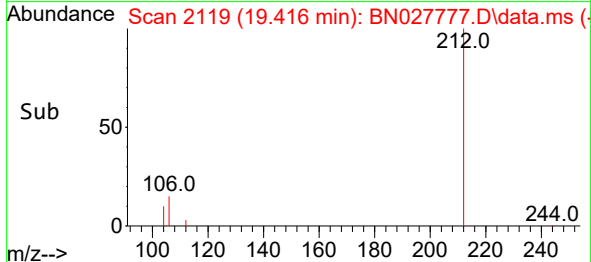
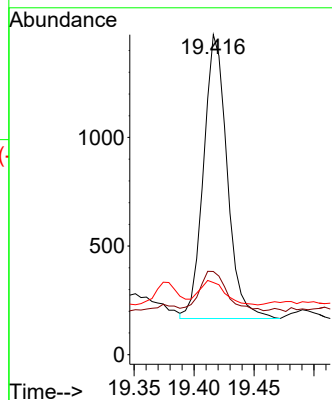
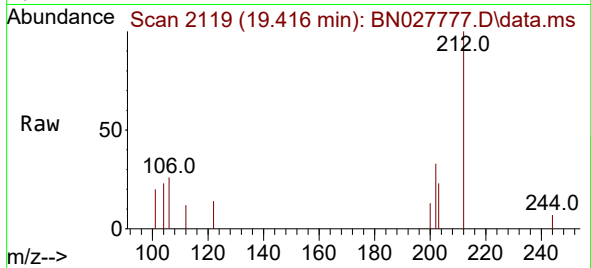




#27  
Fluoranthene-d10  
Concen: 0.037 ng  
RT: 19.416 min Scan# 2119  
Delta R.T. -0.005 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

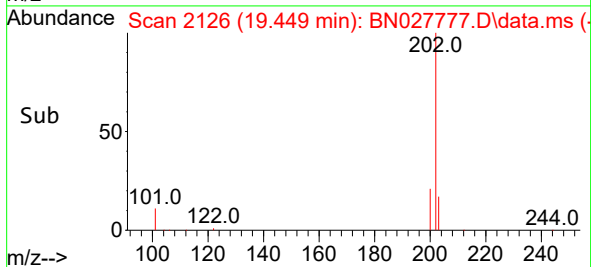
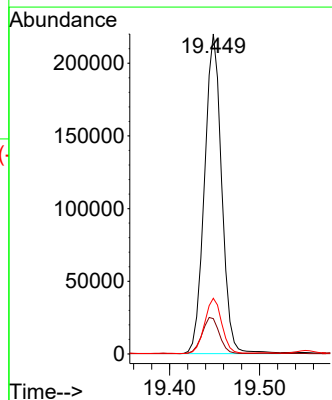
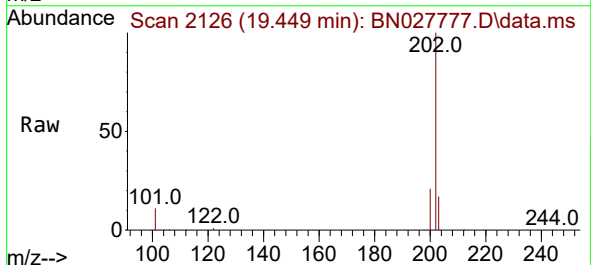
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

Tgt Ion:212 Resp: 1787  
Ion Ratio Lower Upper  
212 100  
106 15.7 12.2 18.2  
104 9.5 7.0 10.4

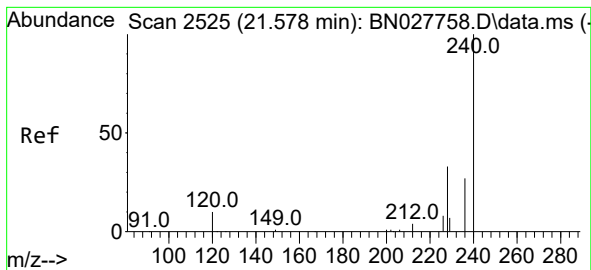


#28  
Fluoranthene  
Concen: 4.340 ng  
RT: 19.449 min Scan# 2126  
Delta R.T. -0.000 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

Tgt Ion:202 Resp: 292026  
Ion Ratio Lower Upper  
202 100  
101 11.5 9.6 14.4  
203 17.2 13.8 20.6







#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.569 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

Instrument :

BNA\_N

ClientSampleId :

PILE-2MSD

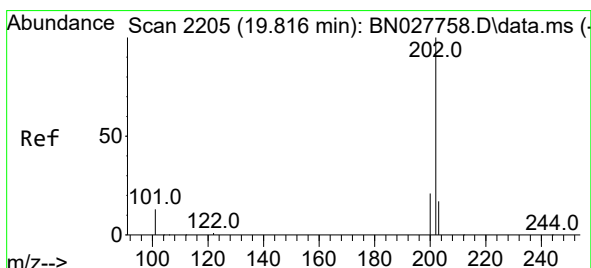
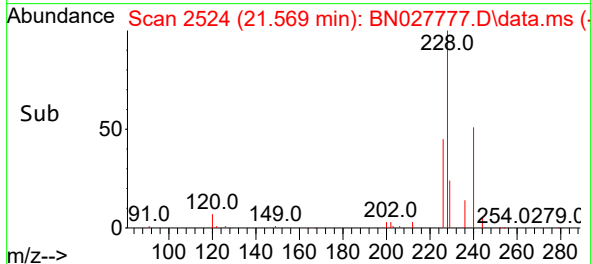
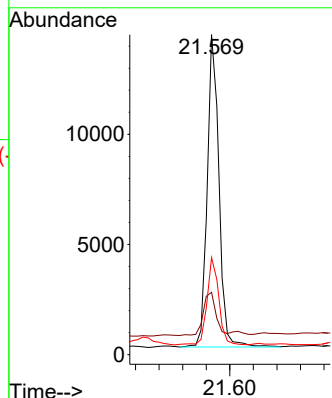
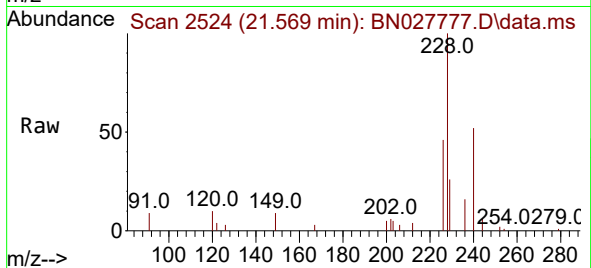
Tgt Ion:240 Resp: 19624

Ion Ratio Lower Upper

240 100

120 19.5 11.2 16.8#

236 30.3 22.8 34.2



#30

Pyrene

Concen: 3.902 ng

RT: 19.816 min Scan# 2205

Delta R.T. -0.000 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

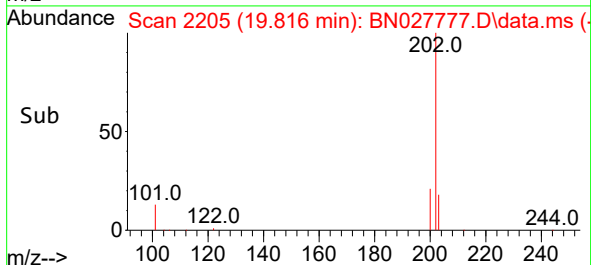
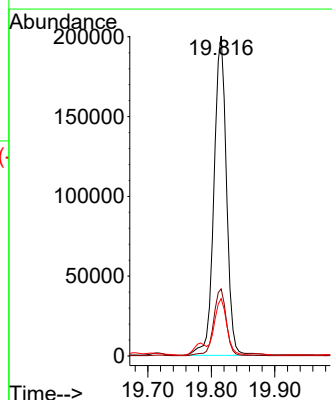
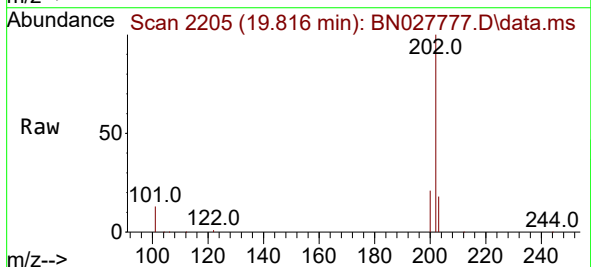
Tgt Ion:202 Resp: 275077

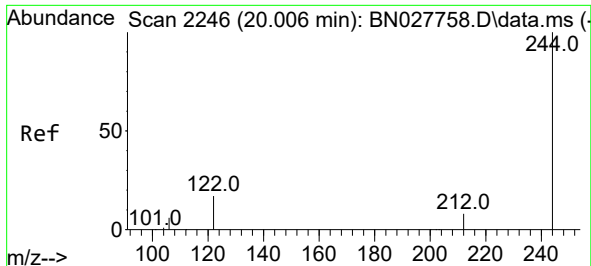
Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

203 17.4 14.2 21.4

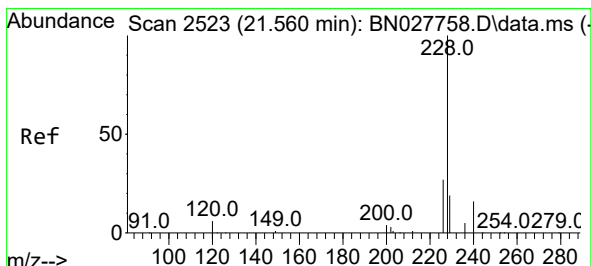
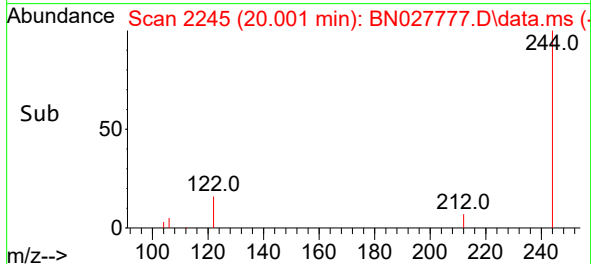
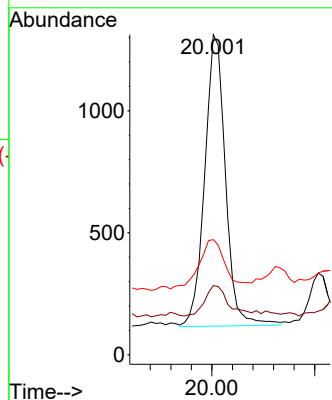
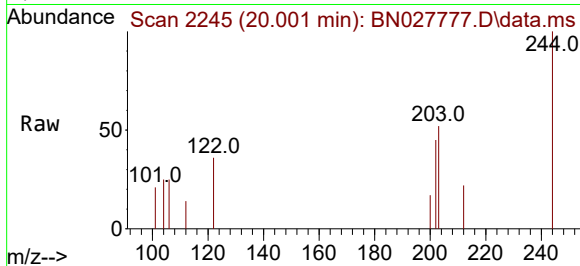




#31  
Terphenyl-d14  
Concen: 0.044 ng  
RT: 20.001 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

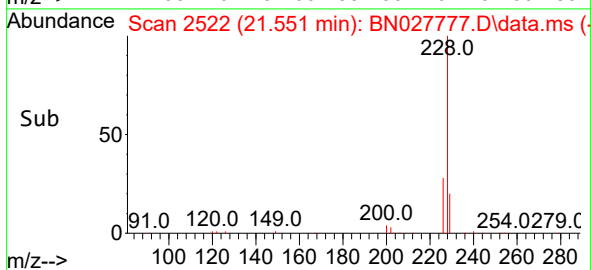
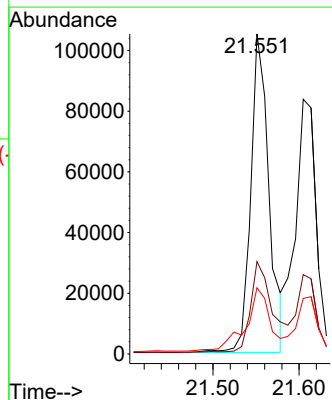
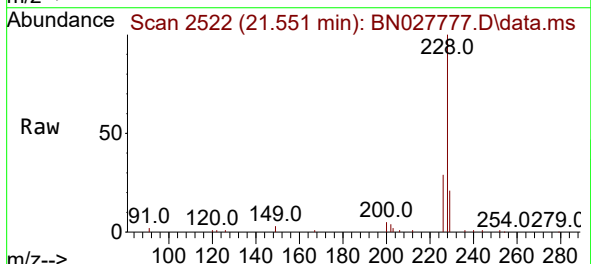
Instrument :  
BNA\_N  
ClientSampleId :  
PILE-2MSD

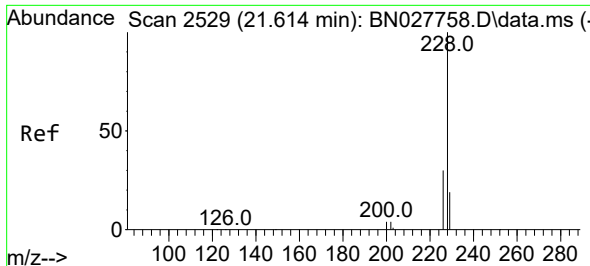
Tgt Ion:244 Resp: 1670  
Ion Ratio Lower Upper  
244 100  
212 21.6 7.5 11.3#  
122 36.0 13.9 20.9#



#32  
Benzo(a)anthracene  
Concen: 2.265 ng  
RT: 21.551 min Scan# 2522  
Delta R.T. -0.009 min  
Lab File: BN027777.D  
Acq: 20 Sep 2023 23:29

Tgt Ion:228 Resp: 154277  
Ion Ratio Lower Upper  
228 100  
226 28.9 21.9 32.9  
229 20.7 15.8 23.6





#33

Chrysene

Concen: 1.871 ng

RT: 21.605 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

Instrument :

BNA\_N

ClientSampleId :

PILE-2MSD

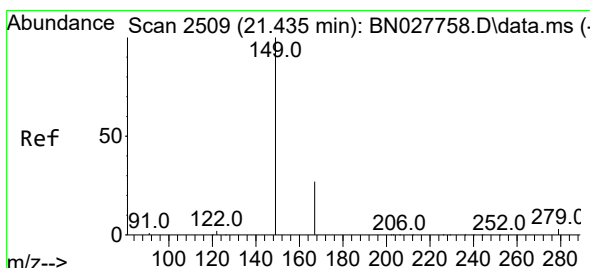
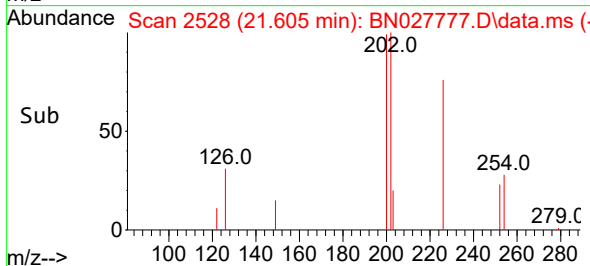
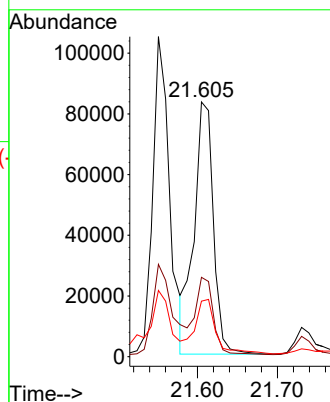
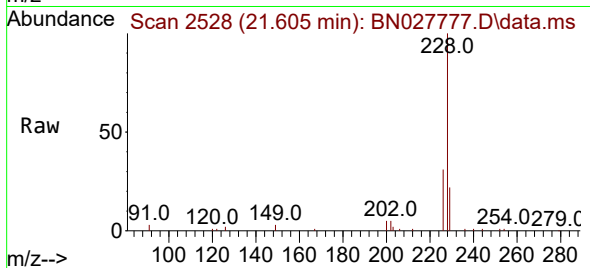
Tgt Ion:228 Resp: 140282

Ion Ratio Lower Upper

228 100

226 31.2 24.2 36.4

229 21.8 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.419 ng

RT: 21.426 min Scan# 2508

Delta R.T. -0.009 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

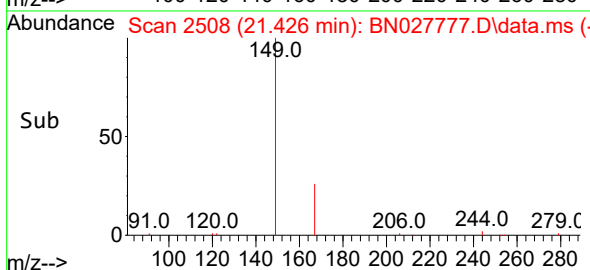
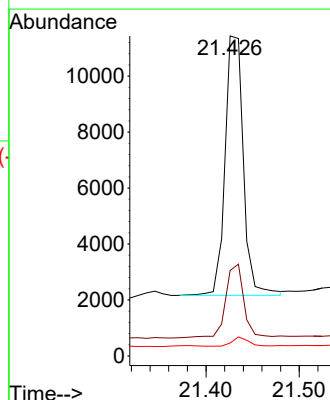
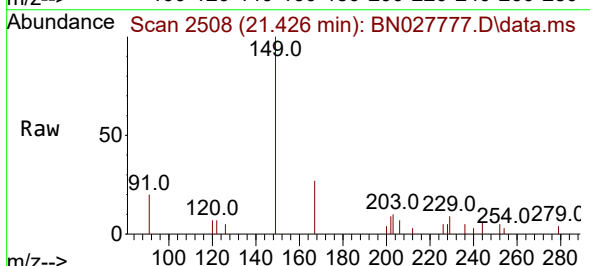
Tgt Ion:149 Resp: 12626

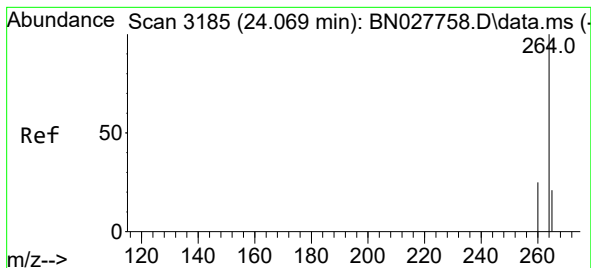
Ion Ratio Lower Upper

149 100

167 29.0 21.4 32.2

279 3.2 2.3 3.5





#35

Perylene-d12

Concen: 0.400 ng

RT: 24.066 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

Instrument :

BNA\_N

ClientSampleId :

PILE-2MSD

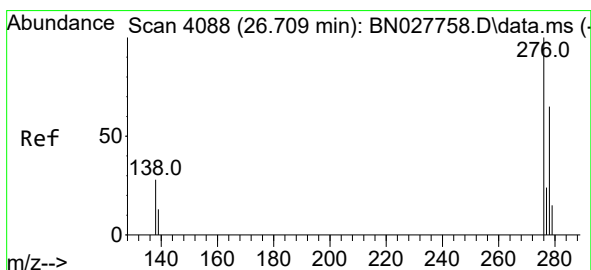
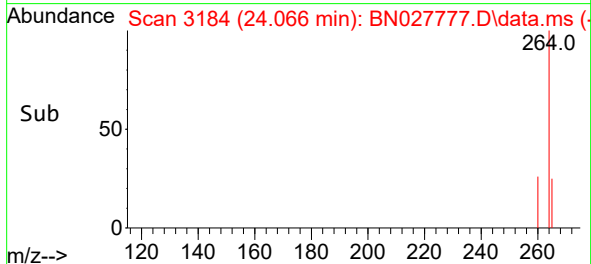
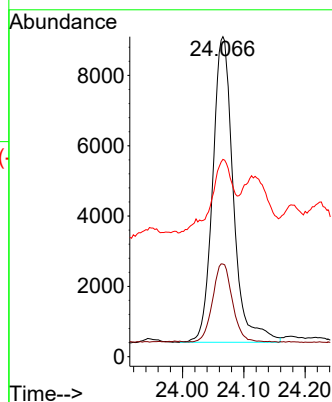
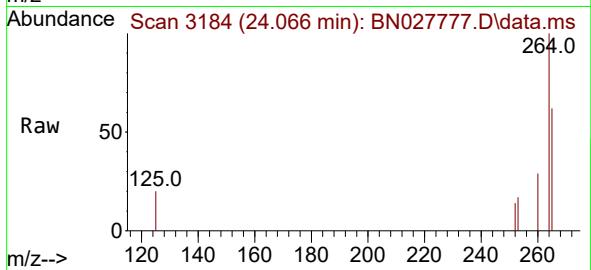
Tgt Ion:264 Resp: 20340

Ion Ratio Lower Upper

264 100

260 28.9 21.0 31.6

265 61.7 60.5 90.7



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.120 ng

RT: 26.679 min Scan# 4078

Delta R.T. -0.029 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

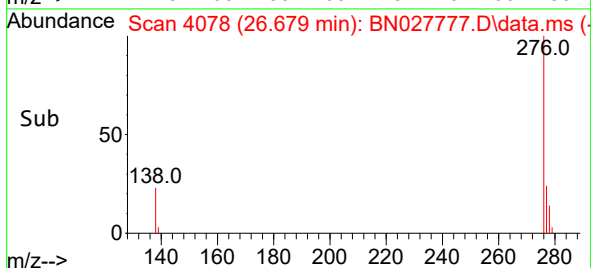
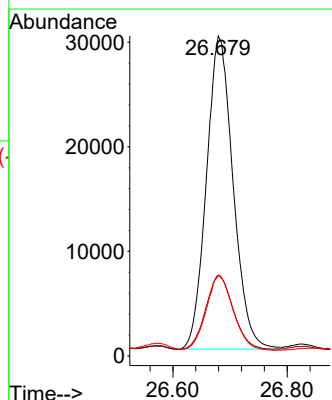
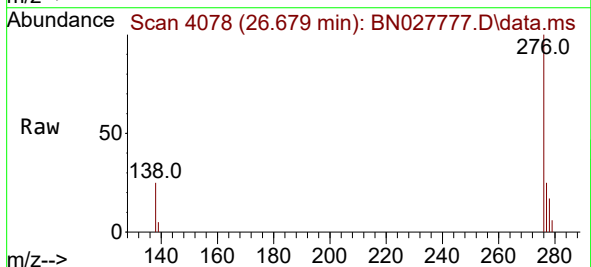
Tgt Ion:276 Resp: 96915

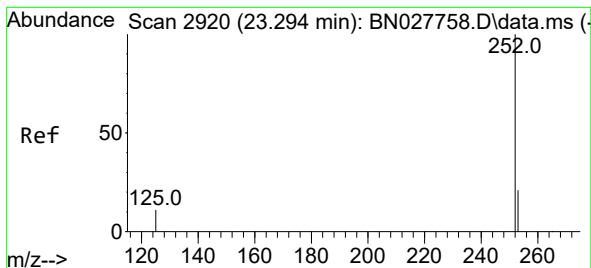
Ion Ratio Lower Upper

276 100

138 24.2 23.5 35.3

277 24.2 19.9 29.9





#37

Benzo(b)fluoranthene

Concen: 2.367 ng

RT: 23.294 min Scan# 2920

Delta R.T. -0.000 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

Instrument :

BNA\_N

ClientSampleId :

PILE-2MSD

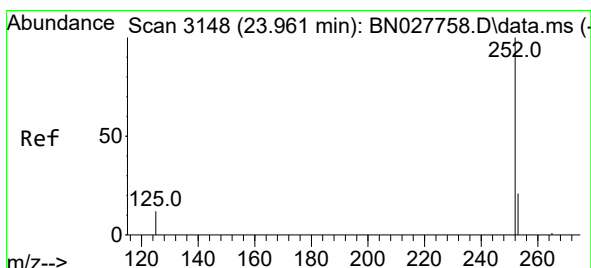
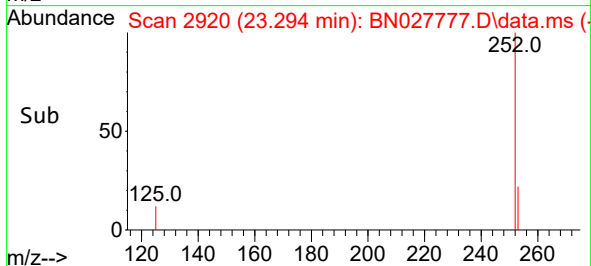
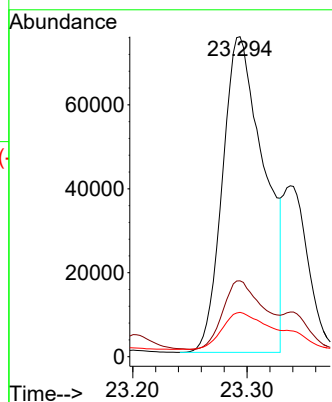
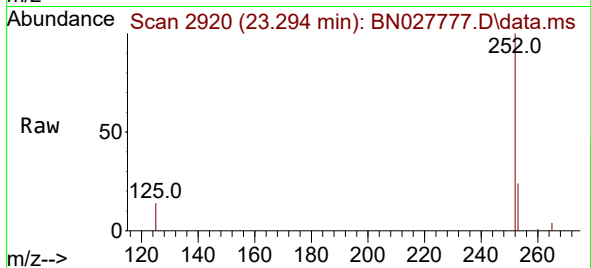
Tgt Ion:252 Resp: 190349

Ion Ratio Lower Upper

252 100

253 23.7 20.8 31.2

125 13.9 13.5 20.3



#39

Benzo(a)pyrene

Concen: 1.420 ng

RT: 23.841 min Scan# 3107

Delta R.T. -0.120 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

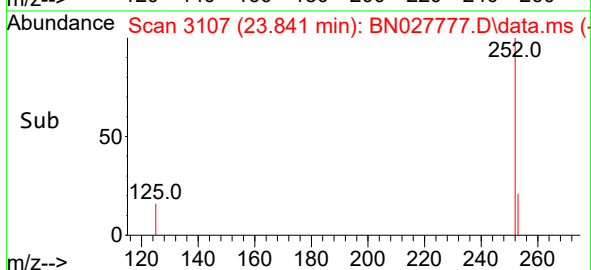
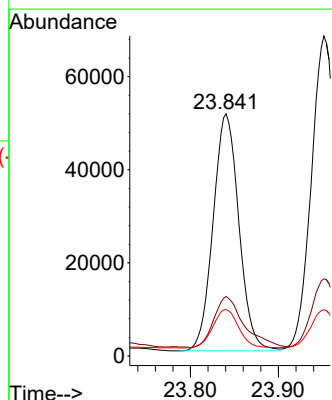
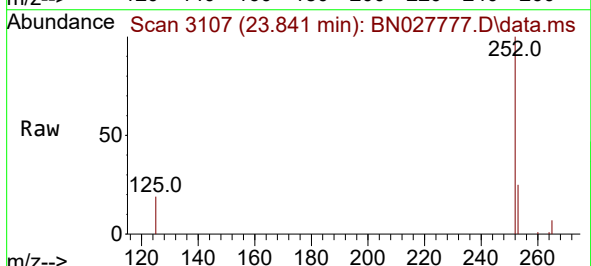
Tgt Ion:252 Resp: 103750

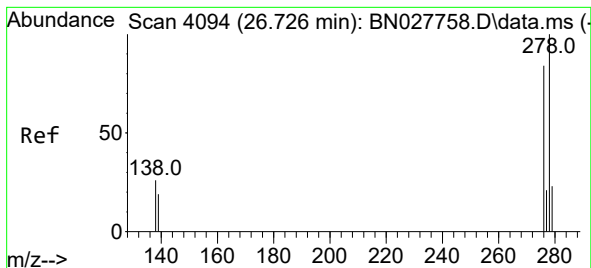
Ion Ratio Lower Upper

252 100

253 24.5 22.6 33.8

125 19.1 16.5 24.7





#40

Dibenzo(a,h)anthracene

Concen: 0.325 ng

RT: 26.700 min Scan# 4094

Delta R.T. -0.026 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

Instrument :

BNA\_N

ClientSampleId :

PILE-2MSD

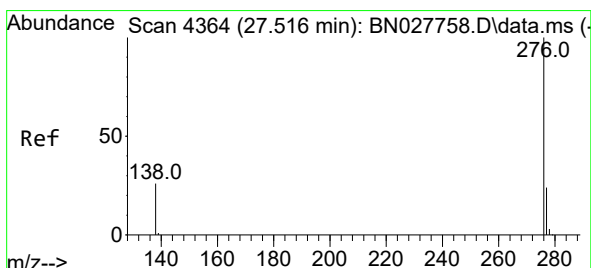
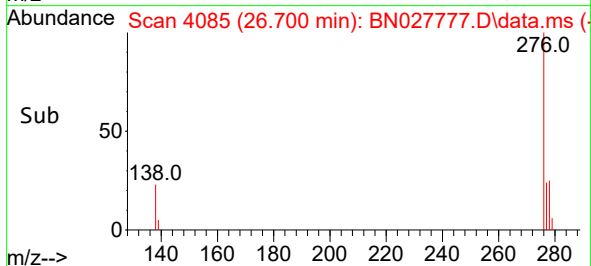
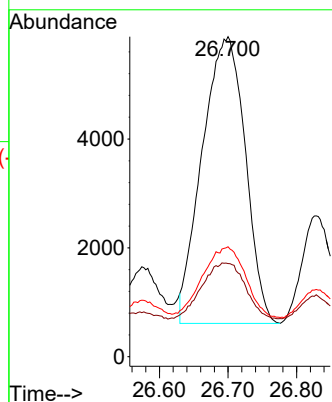
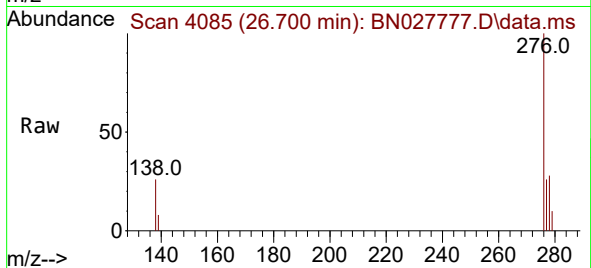
Tgt Ion:278 Resp: 22987

Ion Ratio Lower Upper

278 100

139 29.1 17.1 25.7#

279 34.3 22.2 33.2#



#41

Benzo(g,h,i)perylene

Concen: 1.314 ng

RT: 27.510 min Scan# 4362

Delta R.T. -0.006 min

Lab File: BN027777.D

Acq: 20 Sep 2023 23:29

Tgt Ion:276 Resp: 102634

Ion Ratio Lower Upper

276 100

277 25.0 20.4 30.6

138 26.1 21.9 32.9

