

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082523\  
 Data File : BN027136.D  
 Acq On : 26 Aug 2023 01:54  
 Operator : MA/JU  
 Sample : 04025-06  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE122D1-20230814

Quant Time: Aug 26 02:40:30 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Aug 26 02:13:59 2023  
 Response via : Initial Calibration

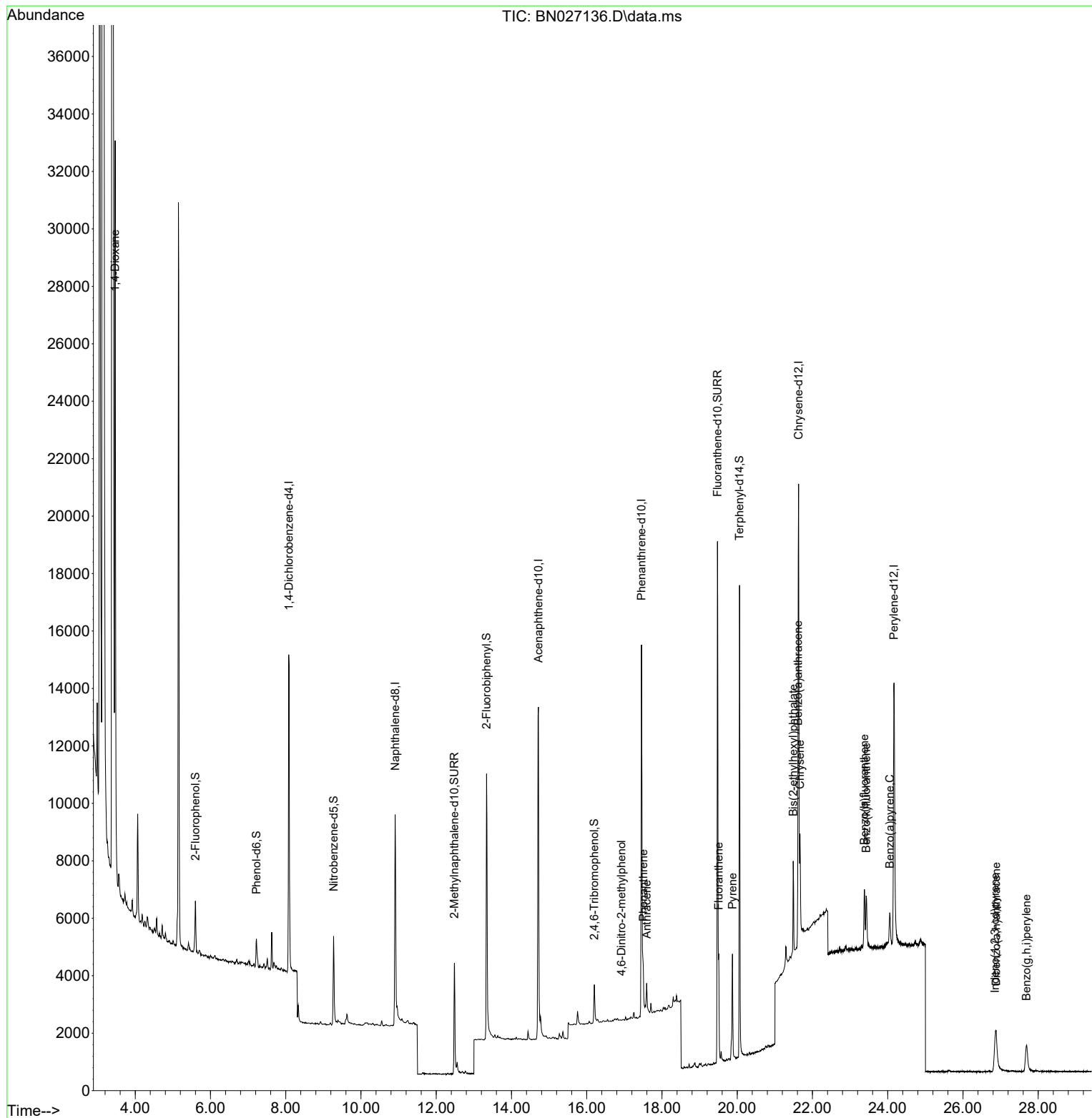
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.080  | 152  | 5503     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.906 | 136  | 12112    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.715 | 164  | 8431     | 0.400 | ng    | 0.01     |
| 19) Phenanthrene-d10          | 17.455 | 188  | 20120    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.632 | 240  | 16961    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 24.165 | 264  | 16328    | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.603  | 112  | 1520     | 0.098 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.221  | 99   | 974      | 0.051 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 9.272  | 82   | 2743     | 0.268 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.483 | 152  | 6361     | 0.330 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 16.201 | 330  | 939      | 0.209 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.336 | 172  | 9702     | 0.310 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.476 | 212  | 20664    | 0.400 | ng    | 0.00     |
| 31) Terphenyl-d14             | 20.062 | 244  | 16481    | 0.465 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.465  | 88   | 16957    | 2.865 | ng    | 95       |
| 20) 4,6-Dinitro-2-methylph... | 16.921 | 198  | 7        | 0.022 | ng    | # 2      |
| 25) Phenanthrene              | 17.505 | 178  | 1807     | 0.031 | ng    | 96       |
| 26) Anthracene                | 17.592 | 178  | 1277     | 0.024 | ng    | 97       |
| 28) Fluoranthene              | 19.509 | 202  | 3232     | 0.047 | ng    | # 96     |
| 30) Pyrene                    | 19.871 | 202  | 3423     | 0.052 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.614 | 228  | 2782     | 0.045 | ng    | 94       |
| 33) Chrysene                  | 21.668 | 228  | 3154     | 0.051 | ng    | 96       |
| 34) Bis(2-ethylhexyl)phtha... | 21.488 | 149  | 3508     | 0.080 | ng    | 96       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.852 | 276  | 2808     | 0.042 | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 23.379 | 252  | 3186     | 0.058 | ng    | # 38     |
| 38) Benzo(k)fluoranthene      | 23.431 | 252  | 2899     | 0.052 | ng    | # 35     |
| 39) Benzo(a)pyrene            | 24.054 | 252  | 2331     | 0.043 | ng    | # 8      |
| 40) Dibenzo(a,h)anthracene    | 26.881 | 278  | 2088     | 0.039 | ng    | # 44     |
| 41) Benzo(g,h,i)perylene      | 27.688 | 276  | 2640     | 0.046 | ng    | # 72     |

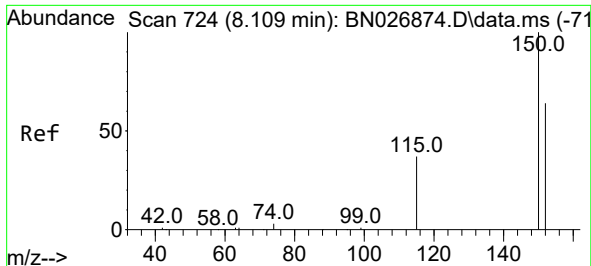
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082523\  
Data File : BN027136.D  
Acq On : 26 Aug 2023 01:54  
Operator : MA/JU  
Sample : 04025-06  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RE122D1-20230814

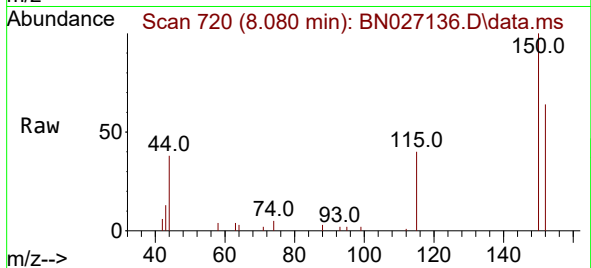
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Aug 26 02:13:59 2023  
Response via : Initial Calibration



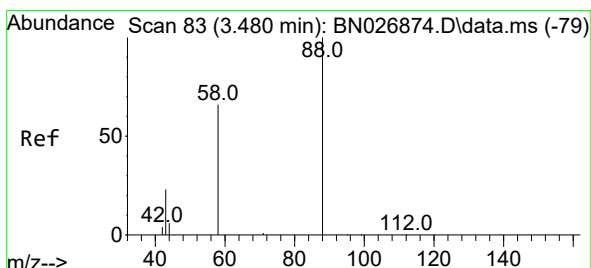
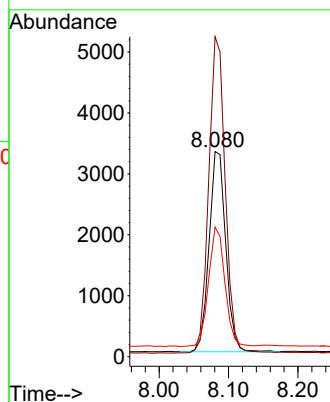
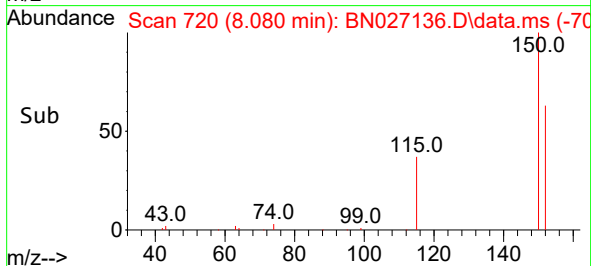


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.080 min Scan# 71  
Delta R.T. -0.008 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

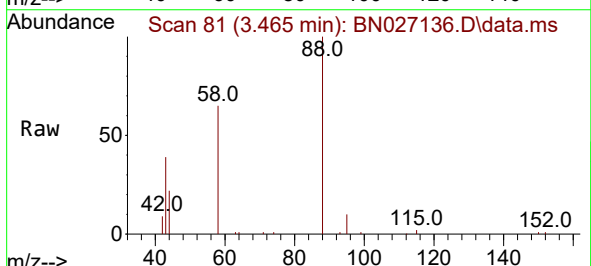
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BNA\_N  
ClientSampleId :  
RE122D1-20230814



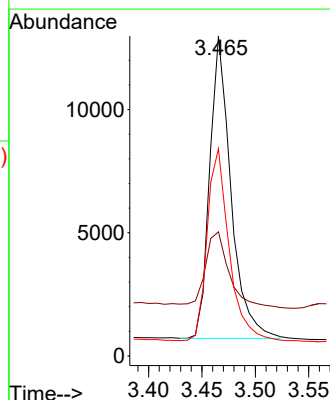
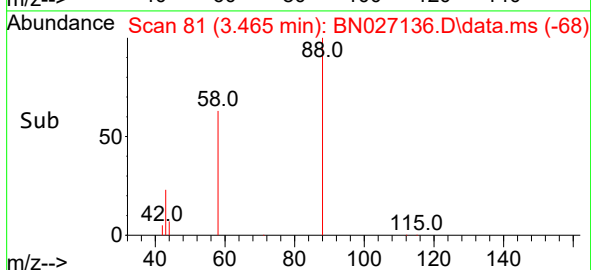
Tgt Ion:152 Resp: 5503  
Ion Ratio Lower Upper  
152 100  
150 156.0 123.8 185.6  
115 63.1 49.7 74.5

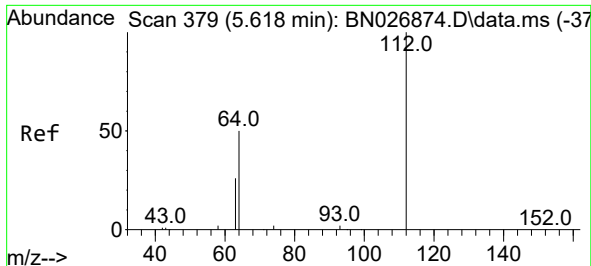


#2  
1,4-Dioxane  
Concen: 2.865 ng  
RT: 3.465 min Scan# 81  
Delta R.T. -0.007 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54



Tgt Ion: 88 Resp: 16957  
Ion Ratio Lower Upper  
88 100  
43 28.2 19.2 28.8  
58 65.5 54.5 81.7

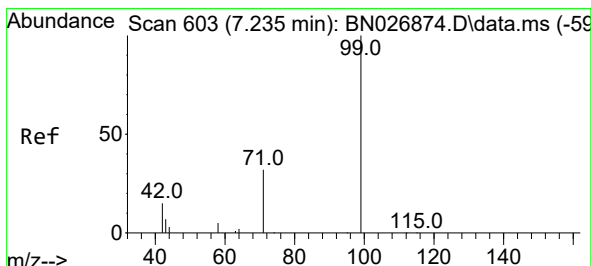
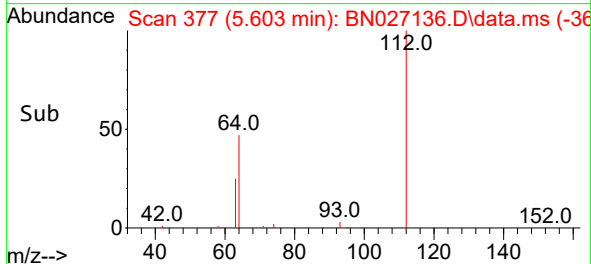
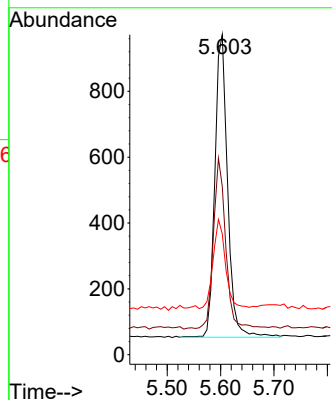
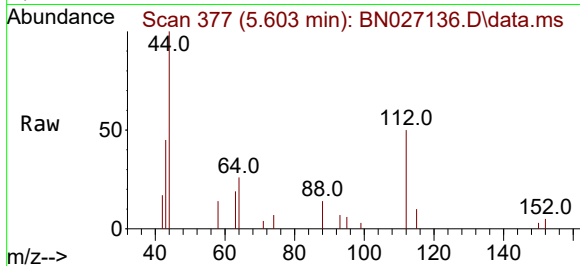




#4  
2-Fluorophenol  
Concen: 0.098 ng  
RT: 5.603 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

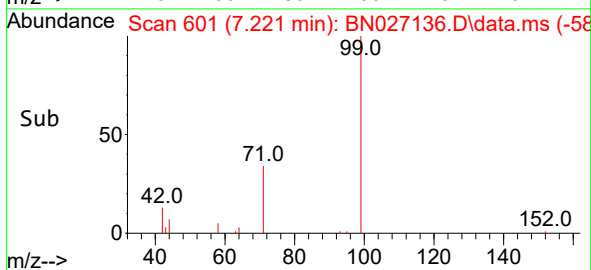
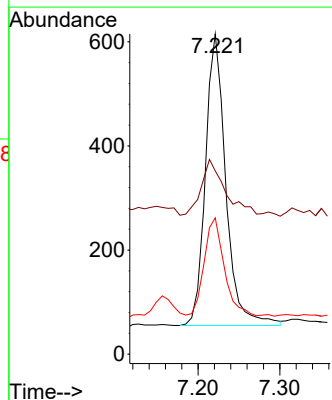
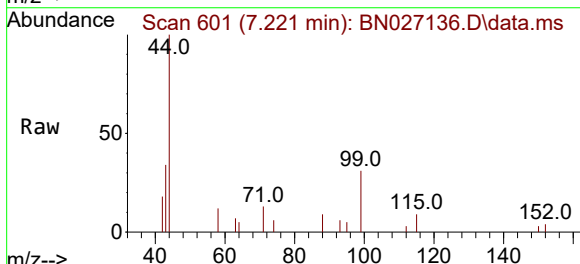
Instrument :  
BNA\_N  
ClientSampleId :  
RE122D1-20230814

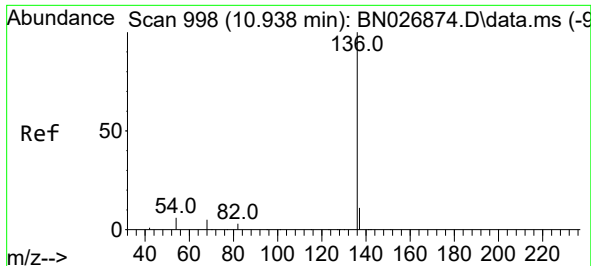
Tgt Ion:112 Resp: 1520  
Ion Ratio Lower Upper  
112 100  
64 53.4 41.5 62.3  
63 28.7 21.7 32.5



#5  
Phenol-d6  
Concen: 0.051 ng  
RT: 7.221 min Scan# 601  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

Tgt Ion: 99 Resp: 974  
Ion Ratio Lower Upper  
99 100  
42 22.0 13.6 20.4#  
71 32.3 26.0 39.0

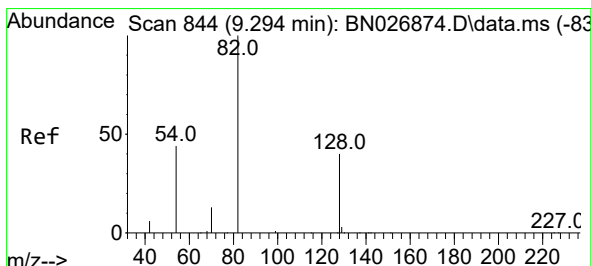
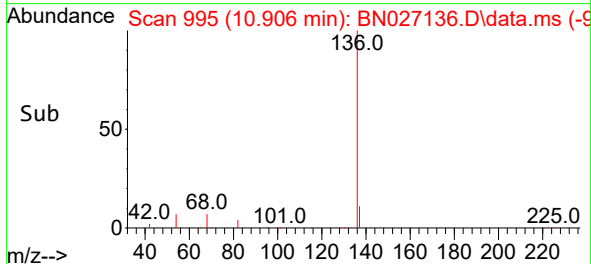
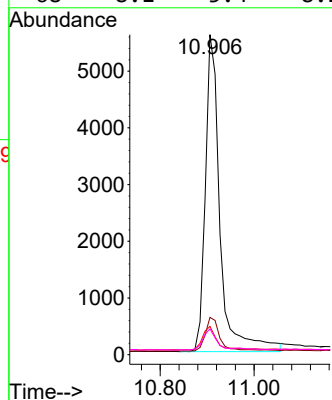
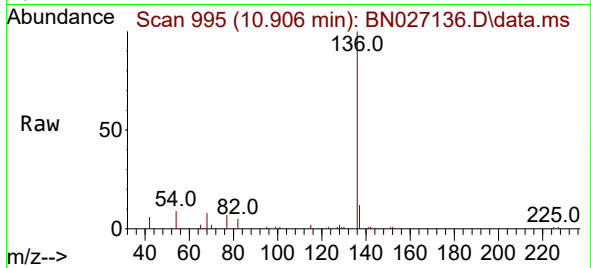




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.906 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

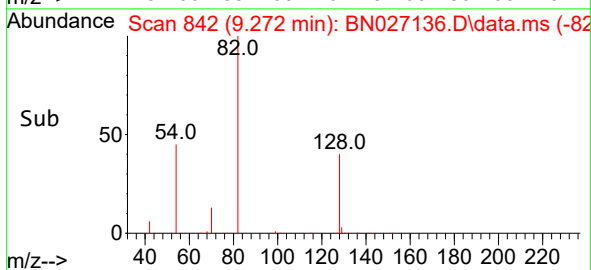
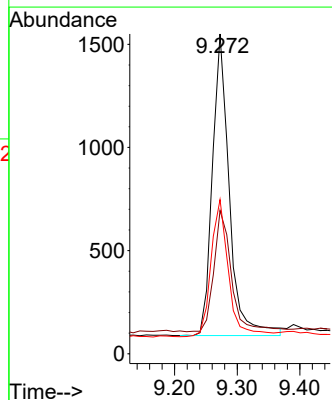
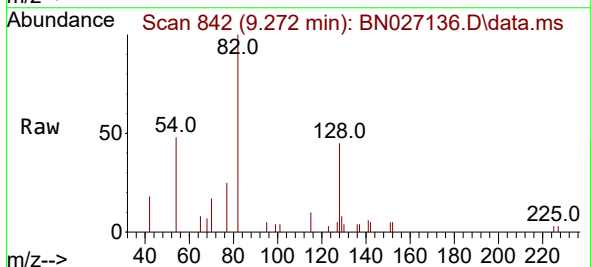
Instrument :  
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ClientSampleId :  
RE122D1-20230814

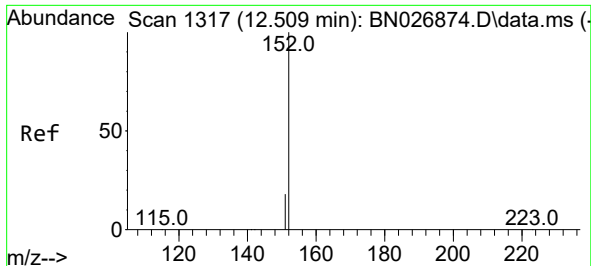
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 12112 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.6  | 9.0   | 13.6  |
| 54       | 8.9   | 5.5   | 8.3#  |
| 68       | 8.1   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 0.268 ng  
RT: 9.272 min Scan# 842  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2743  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 44.8  | 34.1  | 51.1  |
| 54       | 48.3  | 37.0  | 55.4  |

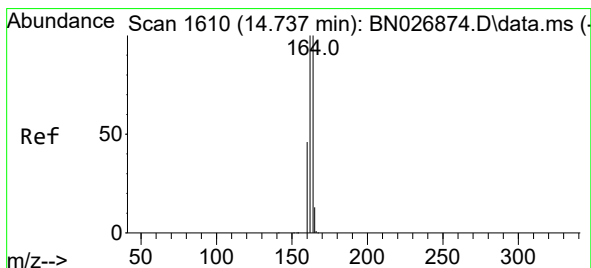
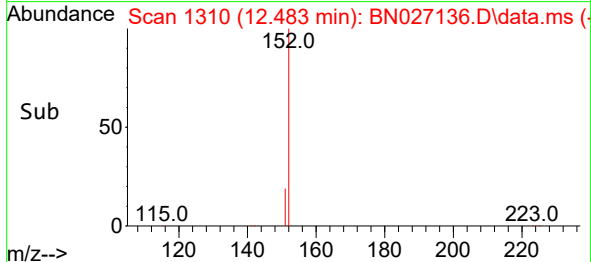
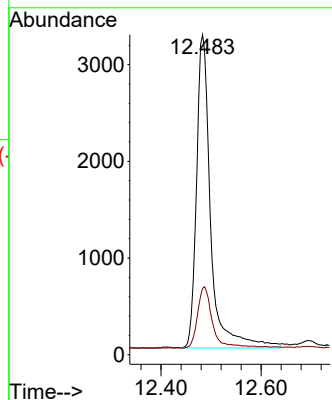
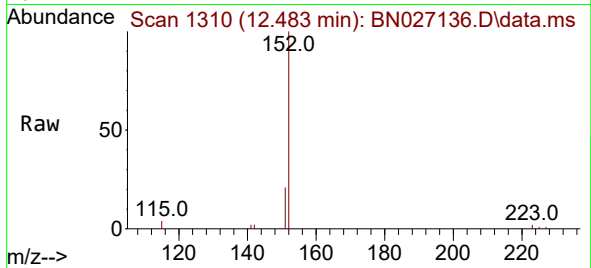




#11  
2-Methylnaphthalene-d10  
Concen: 0.330 ng  
RT: 12.483 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

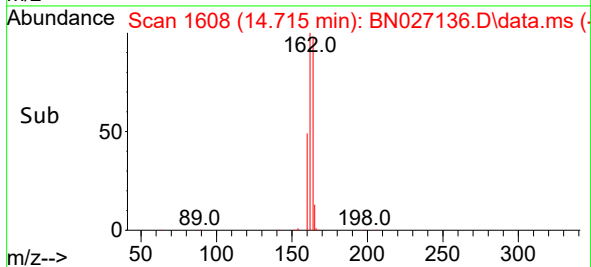
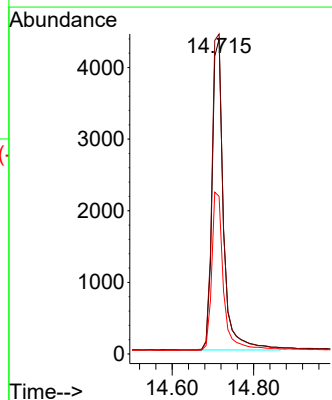
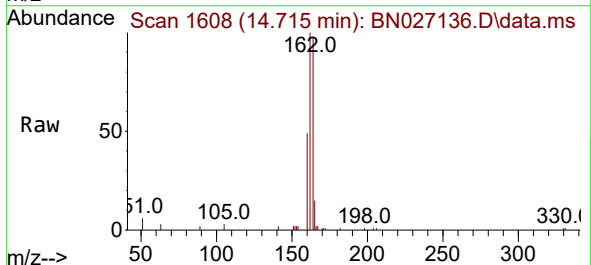
Instrument :  
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ClientSampleId :  
RE122D1-20230814

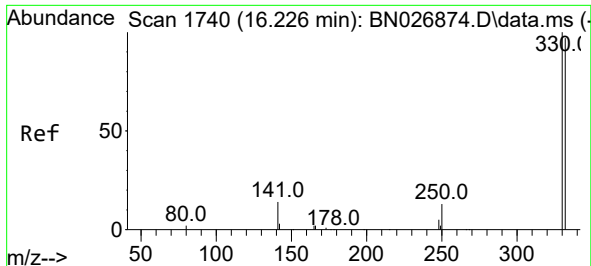
Tgt Ion:152 Resp: 6361  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.3 24.5



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.715 min Scan# 1608  
Delta R.T. 0.011 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

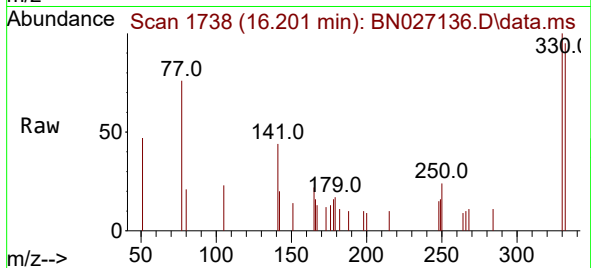
Tgt Ion:164 Resp: 8431  
Ion Ratio Lower Upper  
164 100  
162 101.7 79.7 119.5  
160 50.0 37.4 56.0



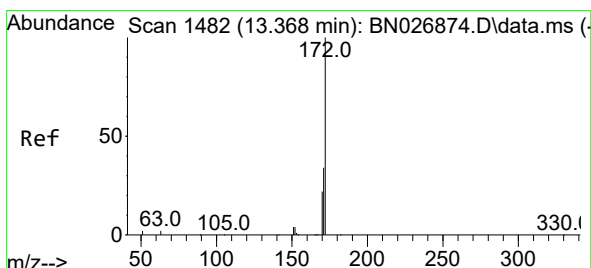
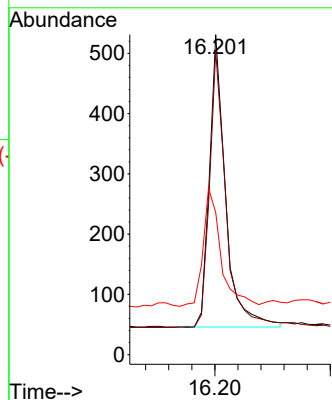
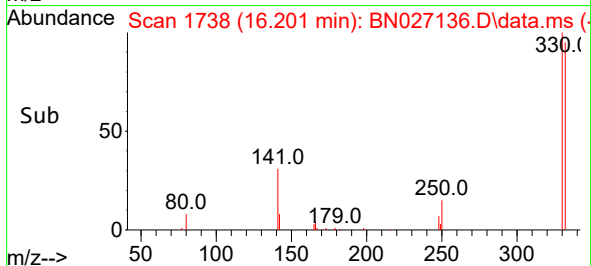


#14  
2,4,6-Tribromophenol  
Concen: 0.209 ng  
RT: 16.201 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

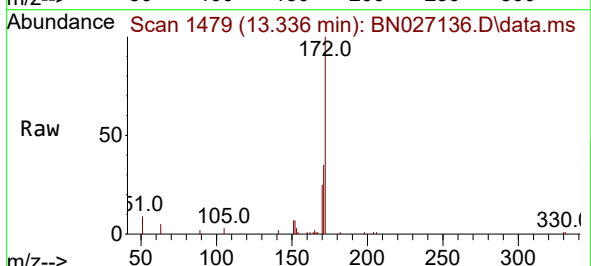
Instrument :  
BNA\_N  
ClientSampleId :  
RE122D1-20230814



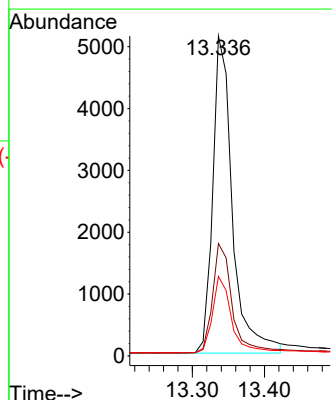
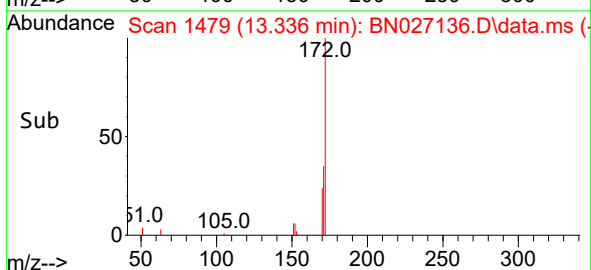
Tgt Ion:330 Resp: 939  
Ion Ratio Lower Upper  
330 100  
332 95.8 76.6 114.8  
141 44.4 32.3 48.5

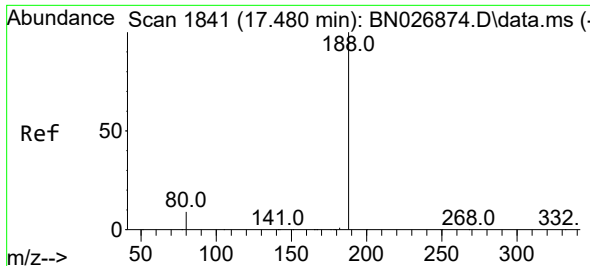


#15  
2-Fluorobiphenyl  
Concen: 0.310 ng  
RT: 13.336 min Scan# 1479  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54



Tgt Ion:172 Resp: 9702  
Ion Ratio Lower Upper  
172 100  
171 35.1 27.4 41.0  
170 24.9 18.0 27.0

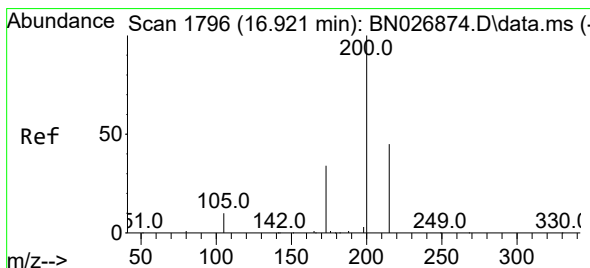
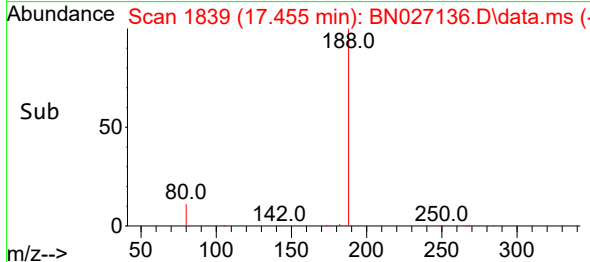
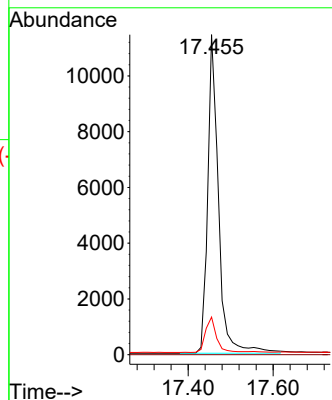
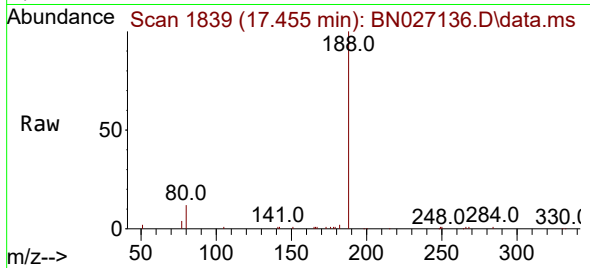




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.455 min Scan# 1839  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

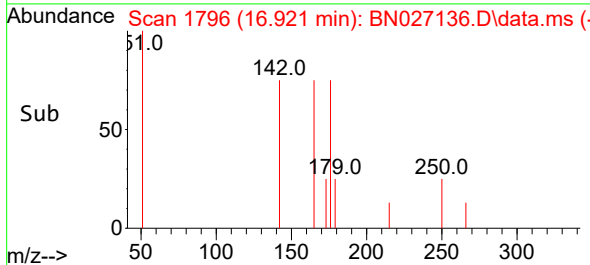
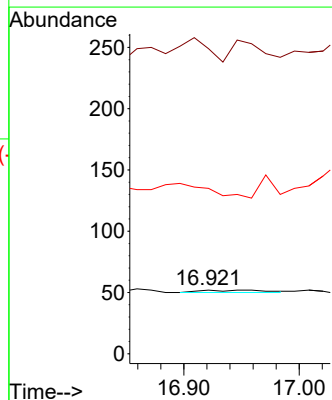
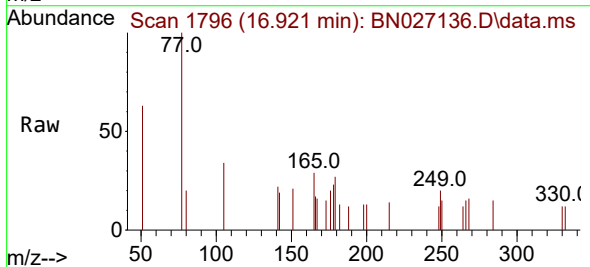
Instrument :  
BNA\_N  
ClientSampleId :  
RE122D1-20230814

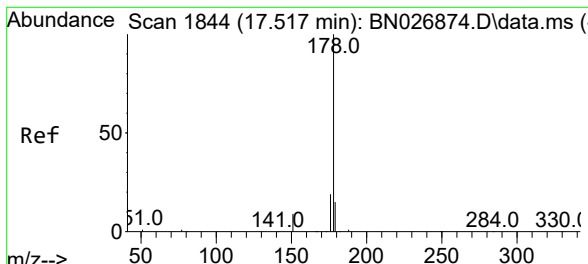
Tgt Ion:188 Resp: 20120  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.8 7.4 11.2#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.022 ng  
RT: 16.921 min Scan# 1796  
Delta R.T. 0.012 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

Tgt Ion:198 Resp: 7  
Ion Ratio Lower Upper  
198 100  
51 478.8 143.8 215.8#  
105 259.6 273.5 410.3#

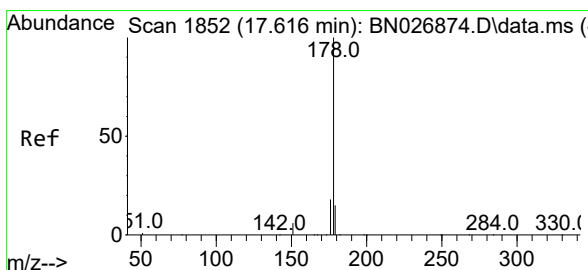
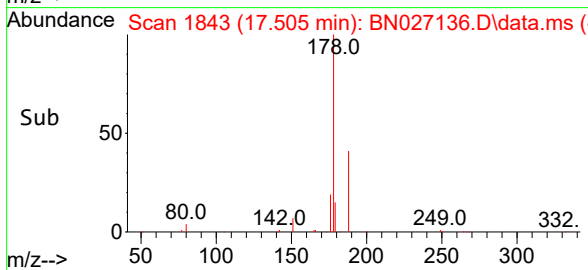
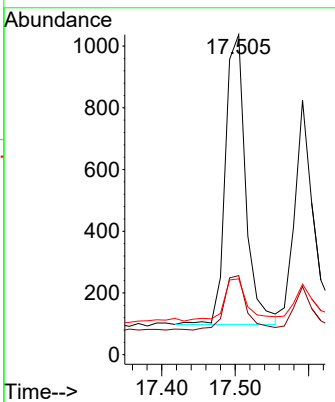
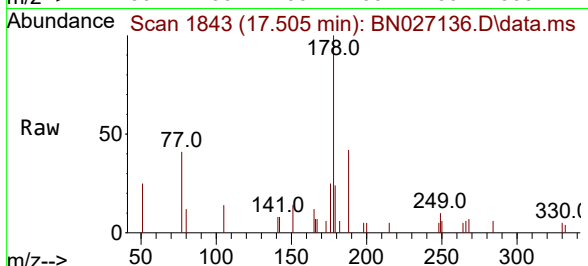




#25  
 Phenanthrene  
 Concen: 0.031 ng  
 RT: 17.505 min Scan# 1843  
 Delta R.T. 0.012 min  
 Lab File: BN027136.D  
 Acq: 26 Aug 2023 01:54

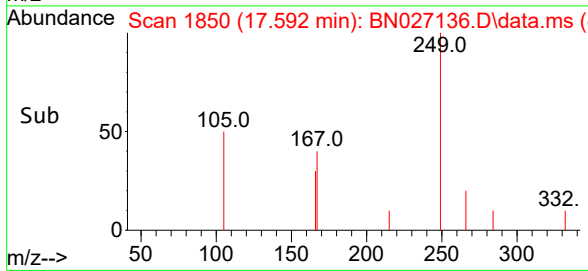
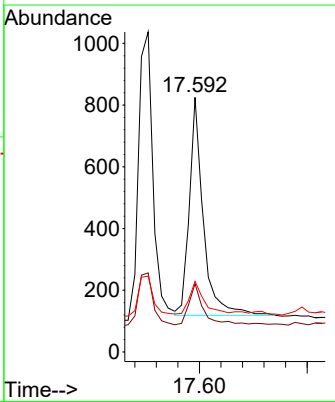
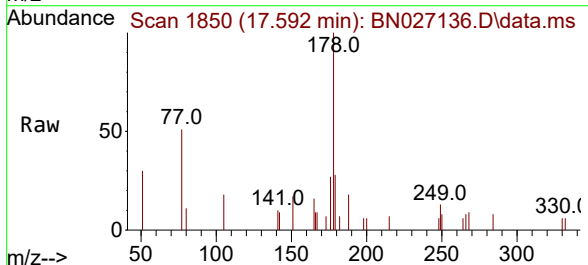
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE122D1-20230814

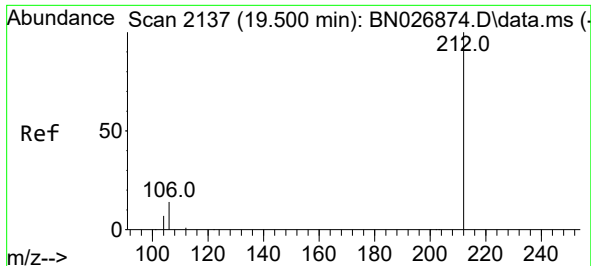
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 1807  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 20.6  | 15.3  | 22.9  |
| 179      | 17.0  | 12.2  | 18.4  |



#26  
 Anthracene  
 Concen: 0.024 ng  
 RT: 17.592 min Scan# 1850  
 Delta R.T. 0.000 min  
 Lab File: BN027136.D  
 Acq: 26 Aug 2023 01:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 1277  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 20.0  | 14.8  | 22.2  |
| 179      | 16.1  | 12.1  | 18.1  |

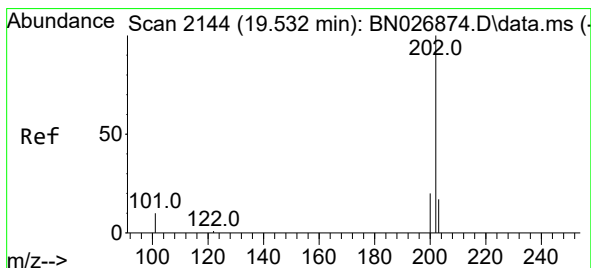
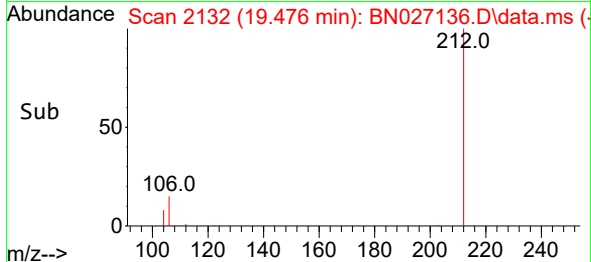
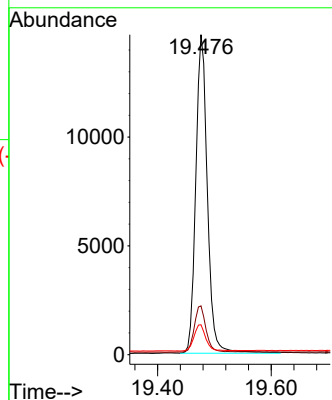
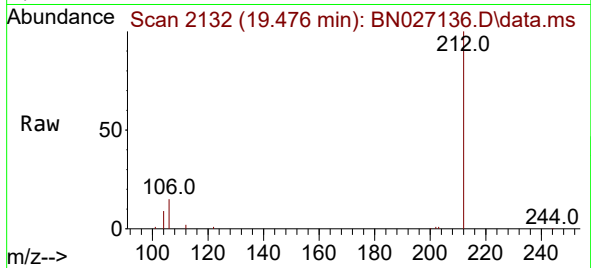




#27  
Fluoranthene-d10  
Concen: 0.400 ng  
RT: 19.476 min Scan# 2132  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

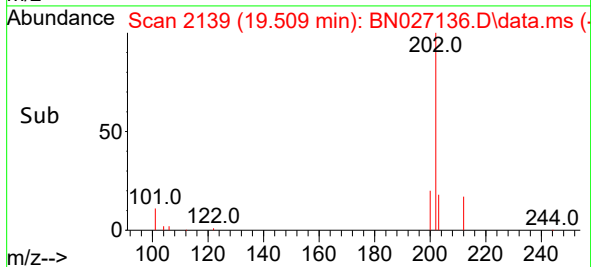
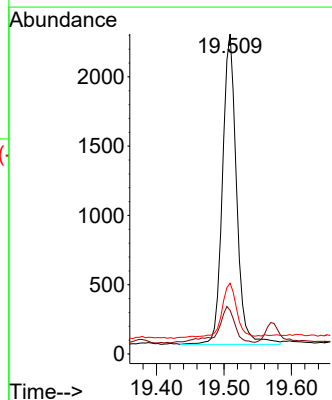
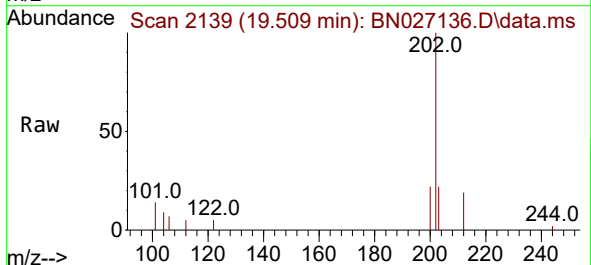
Instrument :  
BNA\_N  
ClientSampleId :  
RE122D1-20230814

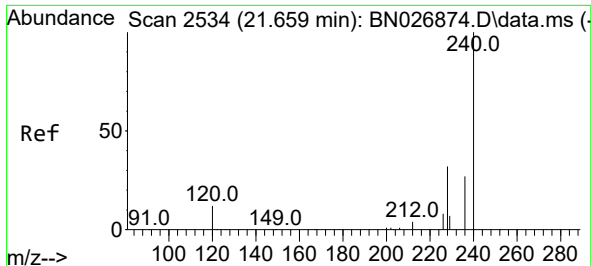
Tgt Ion:212 Resp: 20664  
Ion Ratio Lower Upper  
212 100  
106 15.0 10.9 16.3  
104 8.4 5.9 8.9



#28  
Fluoranthene  
Concen: 0.047 ng  
RT: 19.509 min Scan# 2139  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

Tgt Ion:202 Resp: 3232  
Ion Ratio Lower Upper  
202 100  
101 14.3 8.9 13.3#  
203 17.8 13.7 20.5

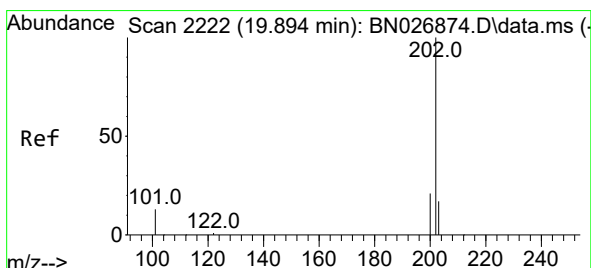
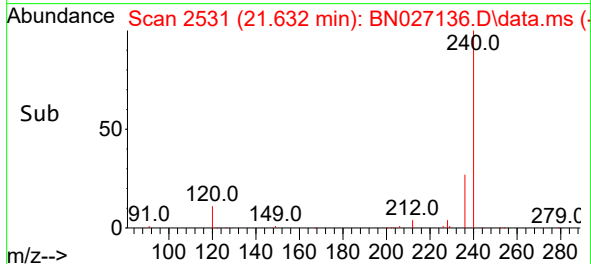
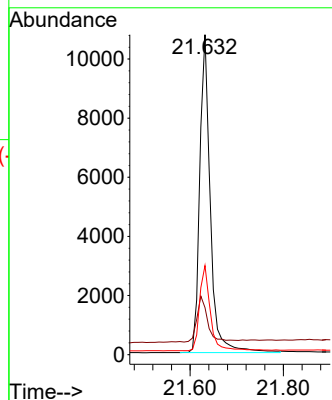
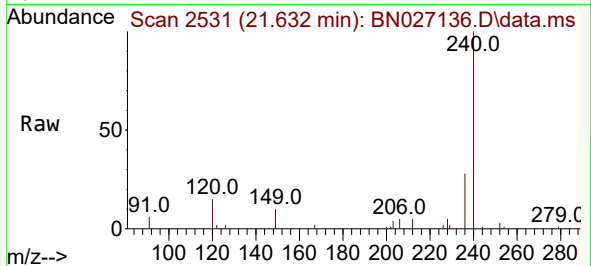




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.632 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

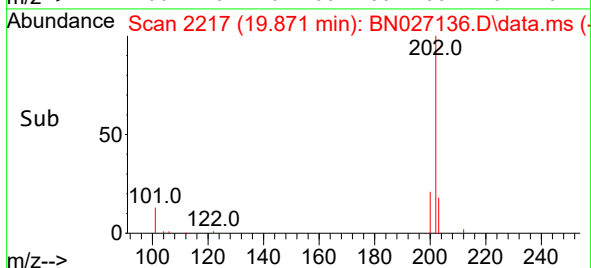
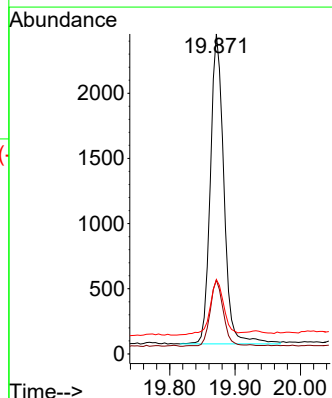
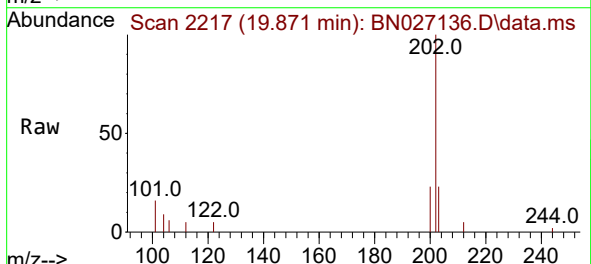
Instrument :  
BNA\_N  
ClientSampleId :  
RE122D1-20230814

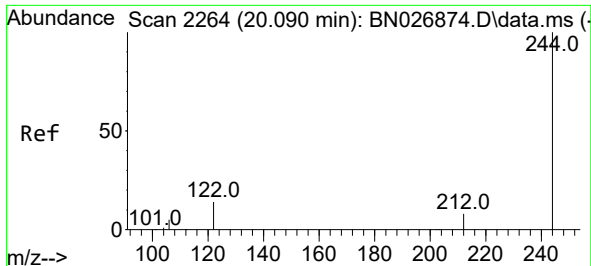
Tgt Ion:240 Resp: 16961  
Ion Ratio Lower Upper  
240 100  
120 14.7 11.1 16.7  
236 27.9 22.2 33.2



#30  
Pyrene  
Concen: 0.052 ng  
RT: 19.871 min Scan# 2217  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

Tgt Ion:202 Resp: 3423  
Ion Ratio Lower Upper  
202 100  
200 20.8 16.6 25.0  
203 18.5 14.4 21.6

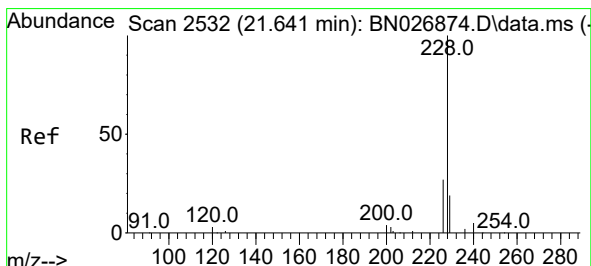
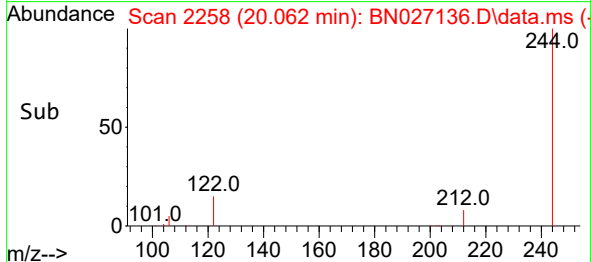
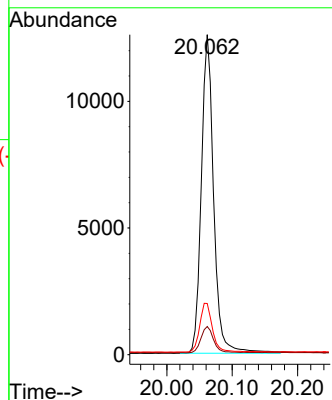
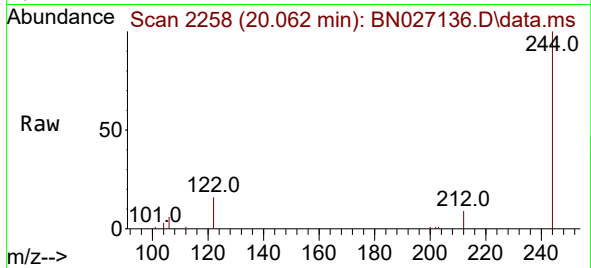




#31  
 Terphenyl-d14  
 Concen: 0.465 ng  
 RT: 20.062 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: BN027136.D  
 Acq: 26 Aug 2023 01:54

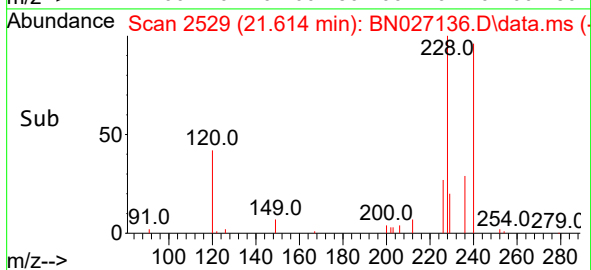
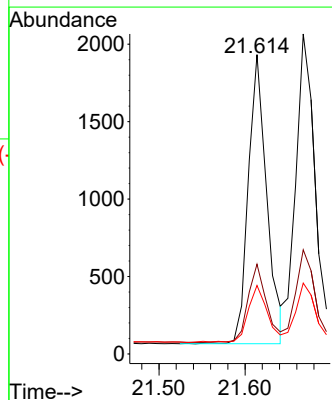
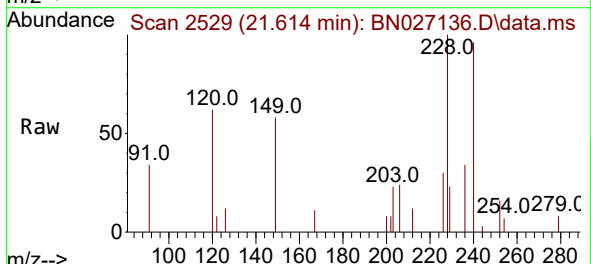
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE122D1-20230814

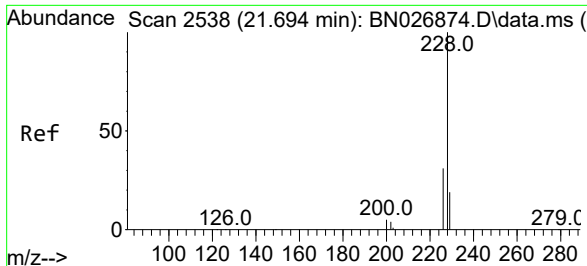
Tgt Ion:244 Resp: 16481  
 Ion Ratio Lower Upper  
 244 100  
 212 8.8 6.9 10.3  
 122 16.0 11.9 17.9



#32  
 Benzo(a)anthracene  
 Concen: 0.045 ng  
 RT: 21.614 min Scan# 2529  
 Delta R.T. 0.000 min  
 Lab File: BN027136.D  
 Acq: 26 Aug 2023 01:54

Tgt Ion:228 Resp: 2782  
 Ion Ratio Lower Upper  
 228 100  
 226 30.0 22.1 33.1  
 229 22.9 15.5 23.3





#33

Chrysene

Concen: 0.051 ng

RT: 21.668 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN027136.D

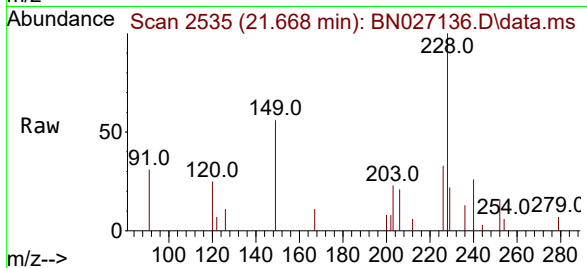
Acq: 26 Aug 2023 01:54

Instrument :

BNA\_N

ClientSampleId :

RE122D1-20230814



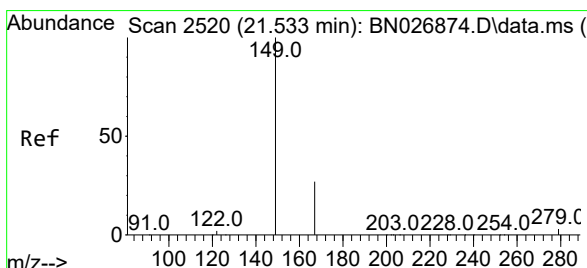
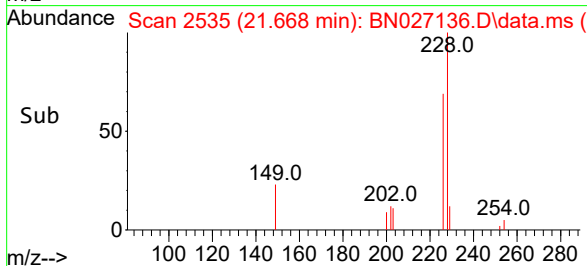
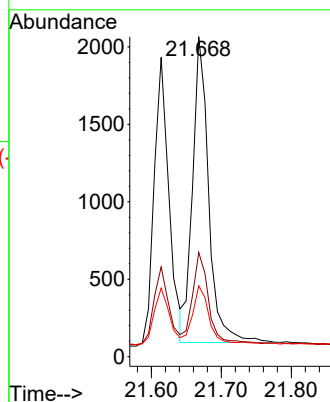
Tgt Ion:228 Resp: 3154

Ion Ratio Lower Upper

228 100

226 32.5 24.6 37.0

229 22.2 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.080 ng

RT: 21.488 min Scan# 2515

Delta R.T. -0.009 min

Lab File: BN027136.D

Acq: 26 Aug 2023 01:54

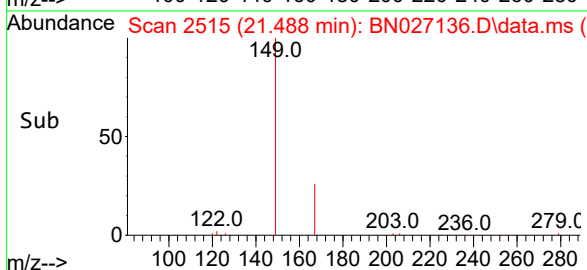
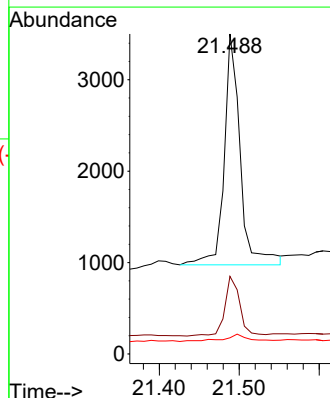
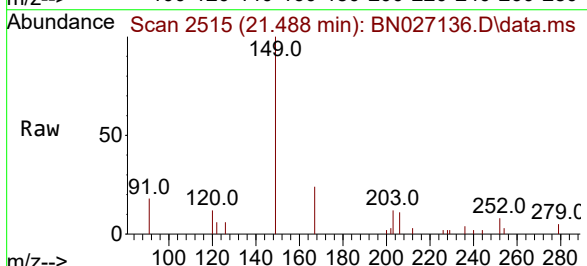
Tgt Ion:149 Resp: 3508

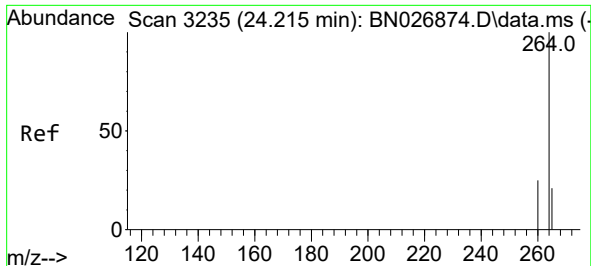
Ion Ratio Lower Upper

149 100

167 24.2 21.4 32.0

279 4.8 3.6 5.4





#35  
Perylene-d12

Concen: 0.400 ng

RT: 24.165 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN027136.D

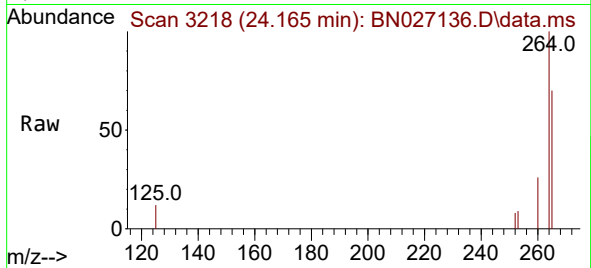
Acq: 26 Aug 2023 01:54

Instrument :

BNA\_N

ClientSampleId :

RE122D1-20230814



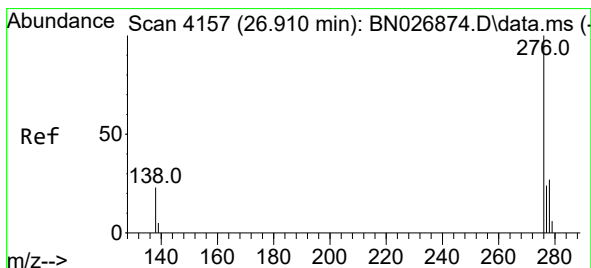
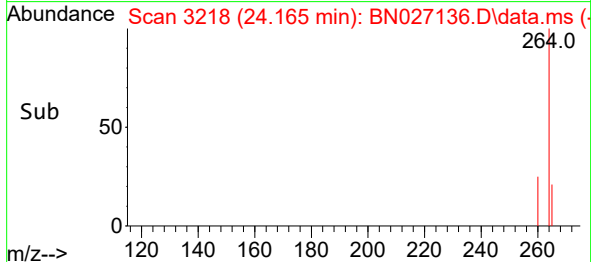
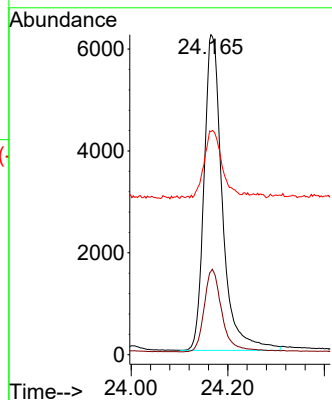
Tgt Ion:264 Resp: 16328

Ion Ratio Lower Upper

264 100

260 26.0 20.4 30.6

265 69.7 27.0 40.6#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.042 ng

RT: 26.852 min Scan# 4137

Delta R.T. 0.000 min

Lab File: BN027136.D

Acq: 26 Aug 2023 01:54

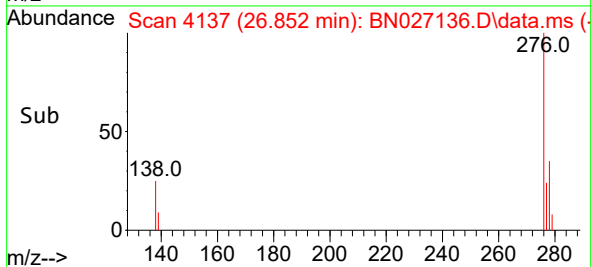
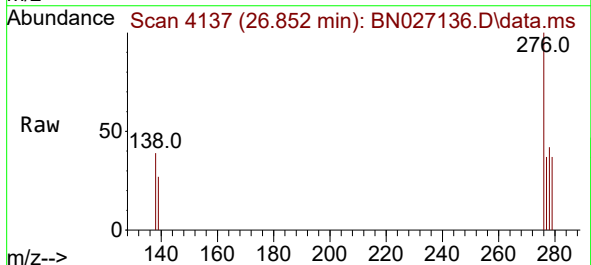
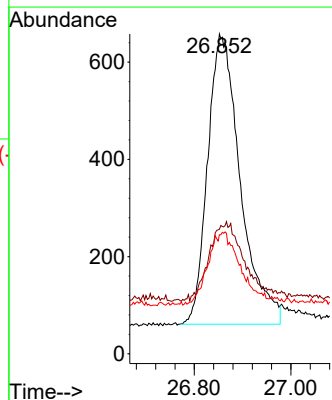
Tgt Ion:276 Resp: 2808

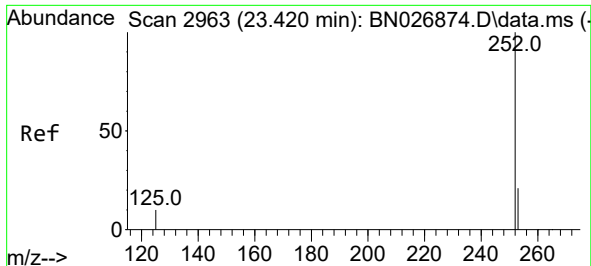
Ion Ratio Lower Upper

276 100

138 29.6 21.1 31.7

277 24.5 19.9 29.9

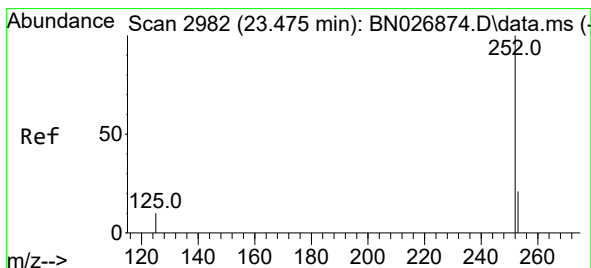
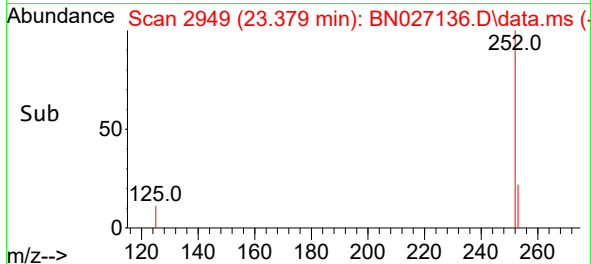
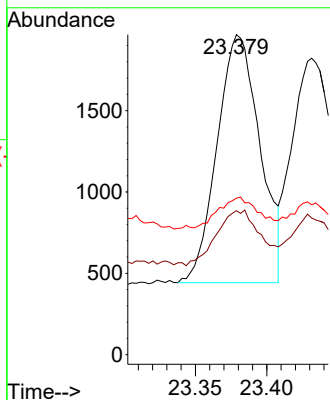
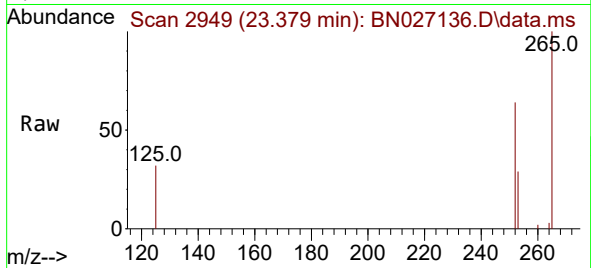




#37  
Benzo(b)fluoranthene  
Concen: 0.058 ng  
RT: 23.379 min Scan# 2967  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

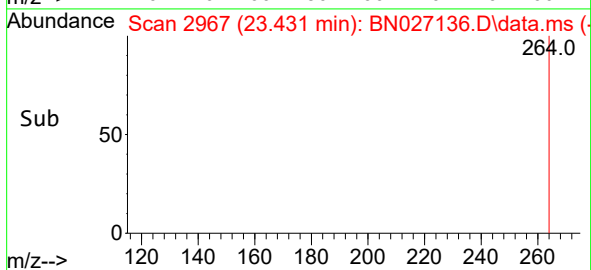
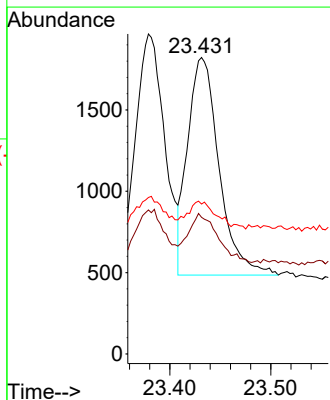
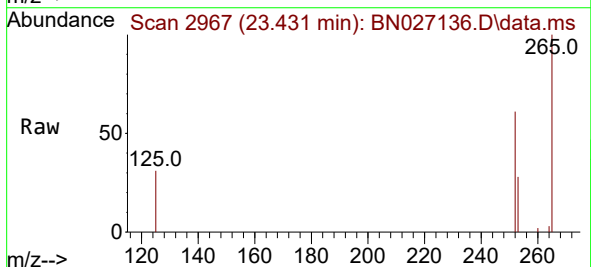
Instrument :  
BNA\_N  
ClientSampleId :  
RE122D1-20230814

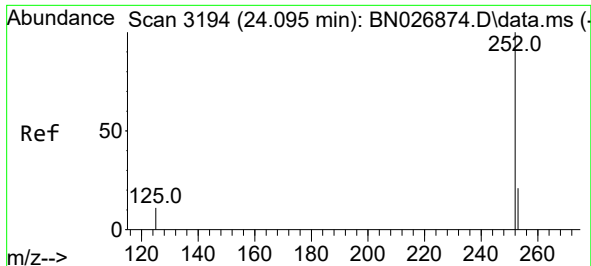
Tgt Ion:252 Resp: 3186  
Ion Ratio Lower Upper  
252 100  
253 45.0 18.4 27.6#  
125 48.9 10.2 15.2#



#38  
Benzo(k)fluoranthene  
Concen: 0.052 ng  
RT: 23.431 min Scan# 2967  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

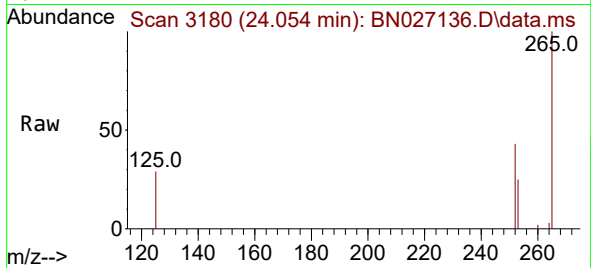
Tgt Ion:252 Resp: 2899  
Ion Ratio Lower Upper  
252 100  
253 46.1 18.4 27.6#  
125 50.6 10.2 15.2#



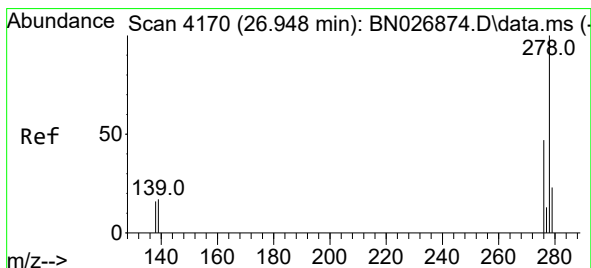
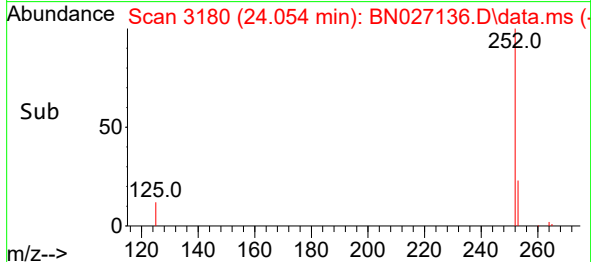
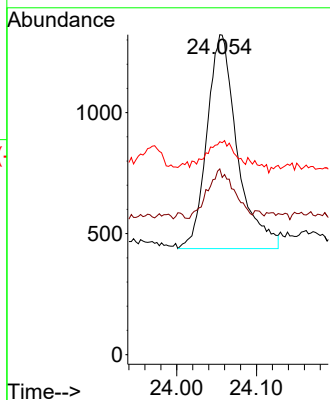


#39  
Benzo(a)pyrene  
Concen: 0.043 ng  
RT: 24.054 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

Instrument :  
BNA\_N  
ClientSampleId :  
RE122D1-20230814

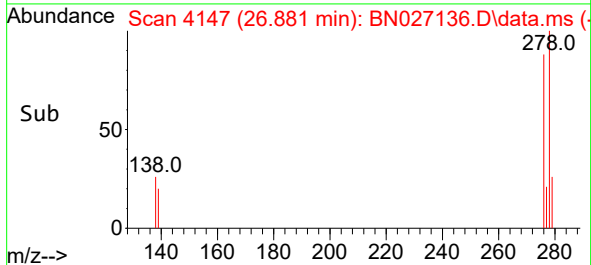
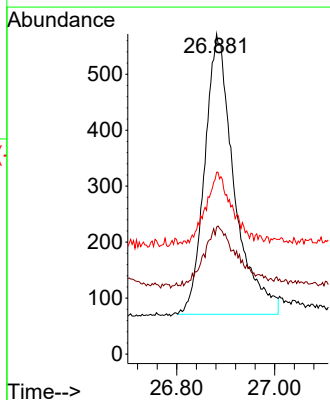
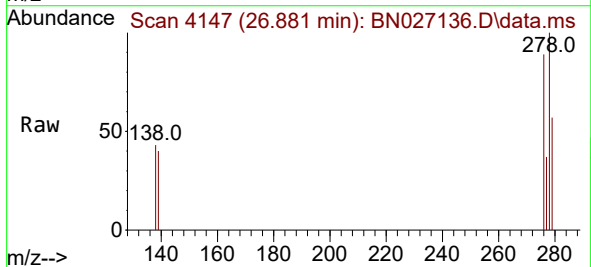


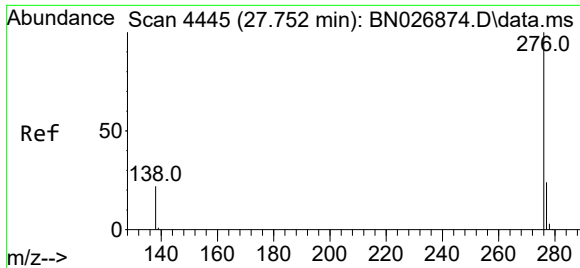
Tgt Ion:252 Resp: 2331  
Ion Ratio Lower Upper  
252 100  
253 58.0 18.6 28.0#  
125 66.6 11.7 17.5#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.039 ng  
RT: 26.881 min Scan# 4147  
Delta R.T. 0.000 min  
Lab File: BN027136.D  
Acq: 26 Aug 2023 01:54

Tgt Ion:278 Resp: 2088  
Ion Ratio Lower Upper  
278 100  
139 39.7 15.3 22.9#  
279 56.8 19.9 29.9#





#41

Benzo(g,h,i)perylene

Concen: 0.046 ng

RT: 27.688 min Scan# 44

Delta R.T. 0.000 min

Lab File: BN027136.D

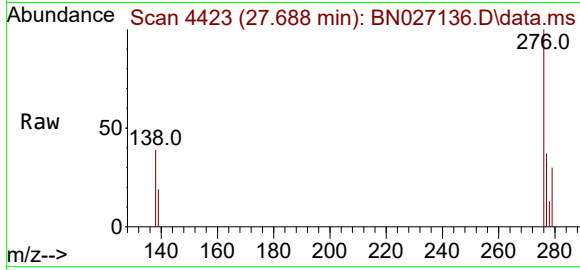
Acq: 26 Aug 2023 01:54

Instrument :

BNA\_N

ClientSampleId :

RE122D1-20230814



Tgt Ion:276 Resp: 2640

Ion Ratio Lower Upper

276 100

277 37.4 19.8 29.8#

138 39.0 19.0 28.4#

