

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082523\  
 Data File : BN027135.D  
 Acq On : 26 Aug 2023 01:17  
 Operator : MA/JU  
 Sample : 04025-05  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE126D2-20230814

Quant Time: Aug 26 02:19:47 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

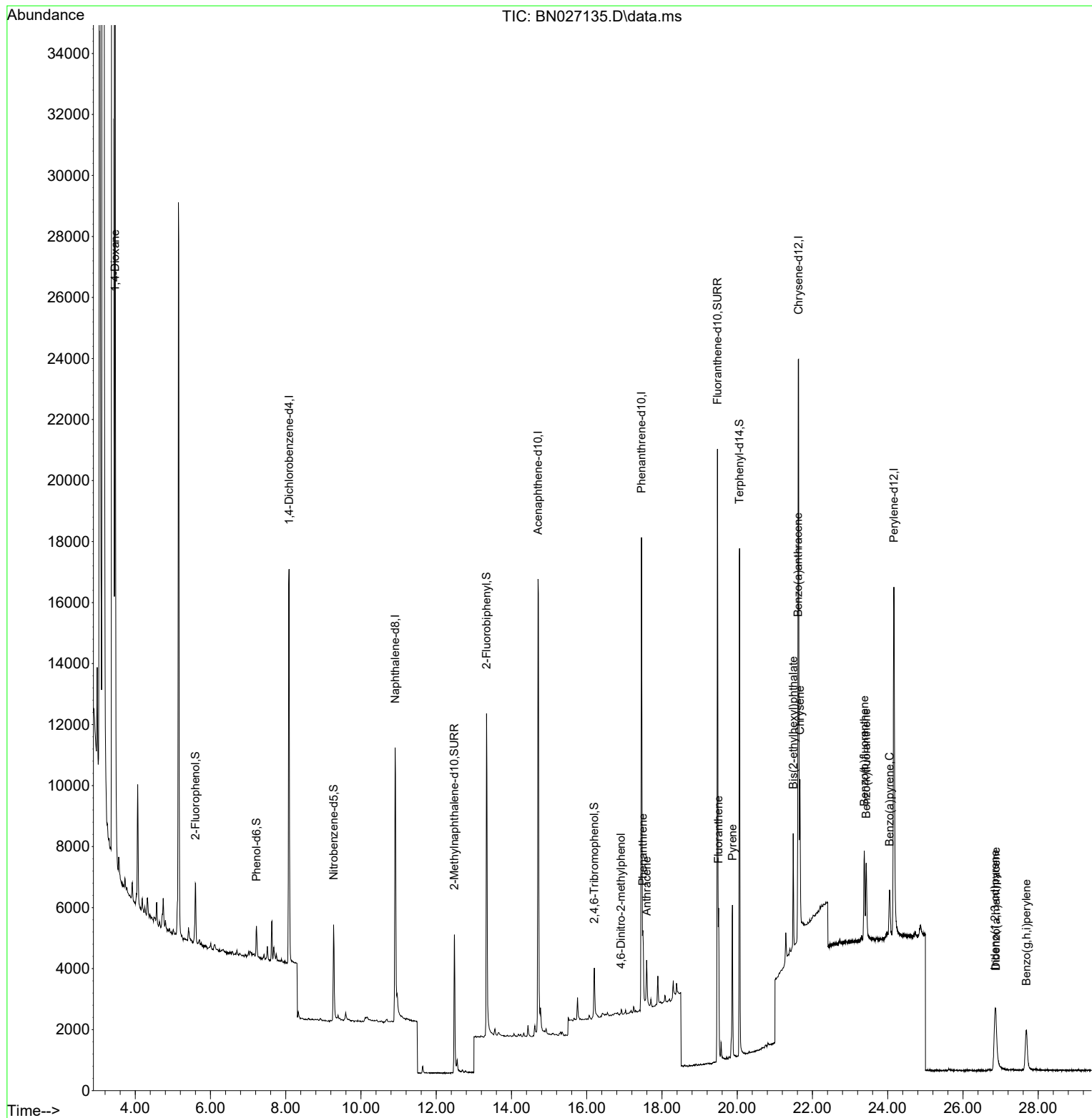
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.088  | 152  | 6523     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.906 | 136  | 14985    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.704 | 164  | 10460    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.455 | 188  | 23695    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.632 | 240  | 20028    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 24.165 | 264  | 19333    | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.603  | 112  | 1712     | 0.093 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.221  | 99   | 1108     | 0.049 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 9.272  | 82   | 3004     | 0.237 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.483 | 152  | 7196     | 0.302 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 16.201 | 330  | 1130     | 0.203 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.336 | 172  | 10669    | 0.275 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.476 | 212  | 22298    | 0.367 | ng    | 0.00     |
| 31) Terphenyl-d14             | 20.062 | 244  | 17546    | 0.419 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.465  | 88   | 18654    | 2.659 | ng    | 95       |
| 20) 4,6-Dinitro-2-methylph... | 16.909 | 198  | 8        | 0.022 | ng    | # 9      |
| 25) Phenanthrene              | 17.492 | 178  | 2453     | 0.036 | ng    | 98       |
| 26) Anthracene                | 17.592 | 178  | 1863     | 0.029 | ng    | 98       |
| 28) Fluoranthene              | 19.504 | 202  | 4403     | 0.055 | ng    | # 96     |
| 30) Pyrene                    | 19.871 | 202  | 4532     | 0.059 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.614 | 228  | 3803     | 0.053 | ng    | 96       |
| 33) Chrysene                  | 21.667 | 228  | 4133     | 0.057 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 21.488 | 149  | 3609     | 0.069 | ng    | 96       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.846 | 276  | 3865     | 0.049 | ng    | 96       |
| 37) Benzo(b)fluoranthene      | 23.376 | 252  | 4291     | 0.066 | ng    | # 54     |
| 38) Benzo(k)fluoranthene      | 23.428 | 252  | 3851     | 0.058 | ng    | # 49     |
| 39) Benzo(a)pyrene            | 24.051 | 252  | 2974     | 0.046 | ng    | # 27     |
| 40) Dibenzo(a,h)anthracene    | 26.878 | 278  | 2870     | 0.046 | ng    | # 61     |
| 41) Benzo(g,h,i)perylene      | 27.685 | 276  | 3584     | 0.053 | ng    | # 82     |
| -----                         |        |      |          |       |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN082523\  
Data File : BN027135.D  
Acq On : 26 Aug 2023 01:17  
Operator : MA/JU  
Sample : 04025-05  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RE126D2-20230814

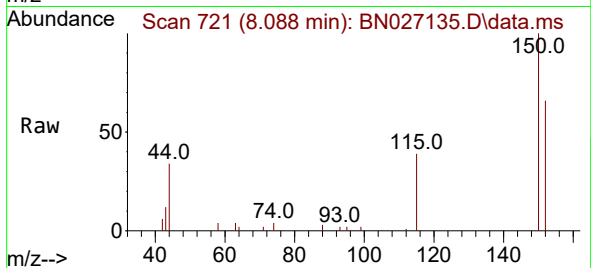
Quant Time: Aug 26 02:19:47 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Aug 26 02:13:59 2023  
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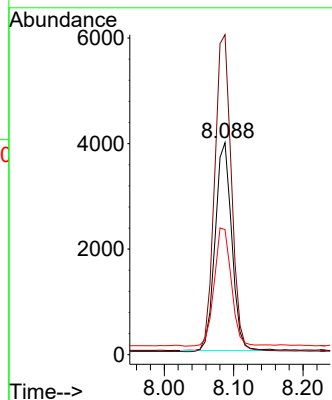
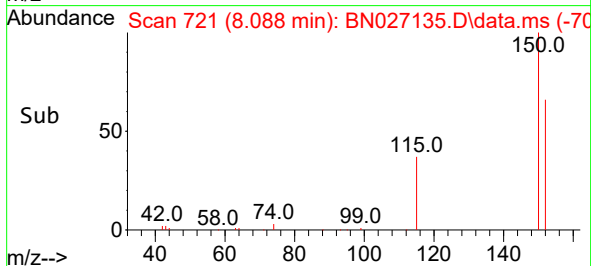


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.088 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

Instrument :  
BNA\_N  
ClientSampleId :  
RE126D2-20230814

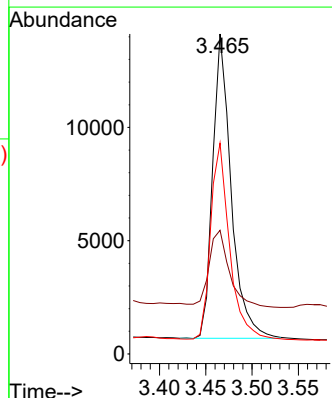
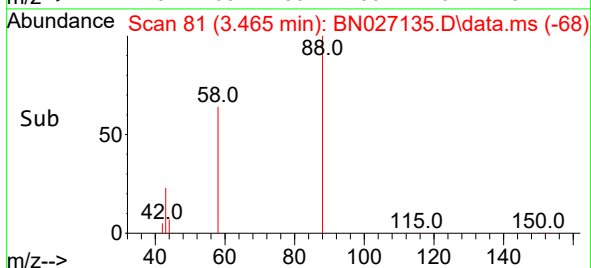
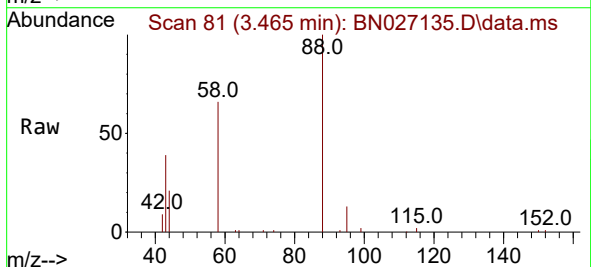


Tgt Ion:152 Resp: 6523  
Ion Ratio Lower Upper  
152 100  
150 150.9 123.8 185.6  
115 59.0 49.7 74.5



#2  
1,4-Dioxane  
Concen: 2.659 ng  
RT: 3.465 min Scan# 81  
Delta R.T. -0.007 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

Tgt Ion: 88 Resp: 18654  
Ion Ratio Lower Upper  
88 100  
43 28.3 19.2 28.8  
58 65.5 54.5 81.7

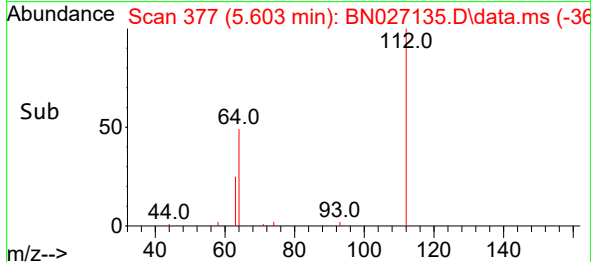
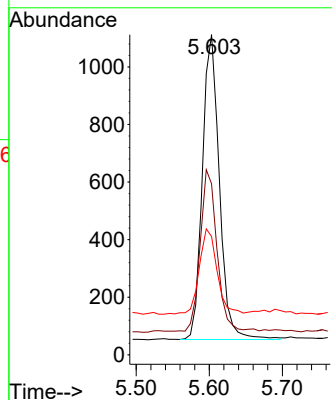
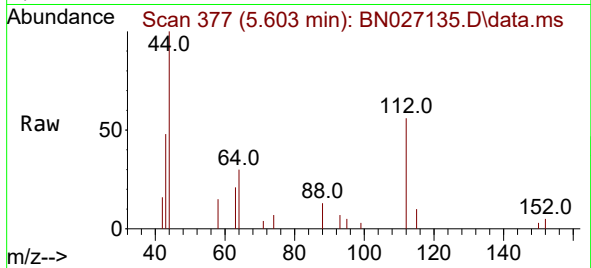




#4  
2-Fluorophenol  
Concen: 0.093 ng  
RT: 5.603 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

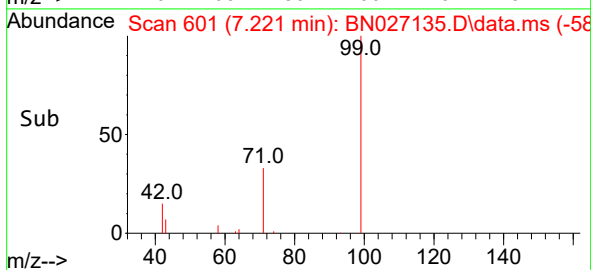
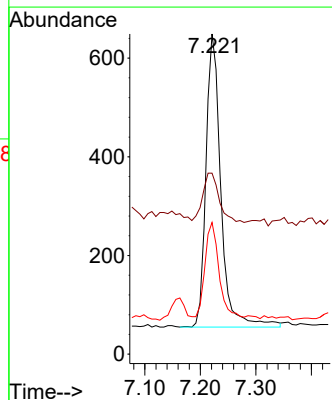
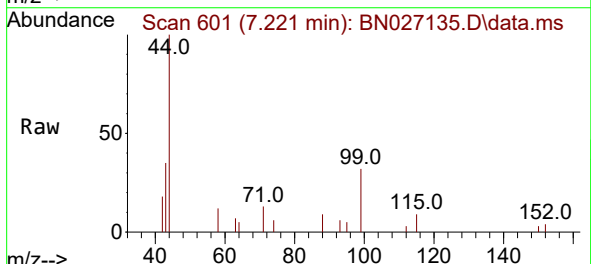
Instrument :  
BNA\_N  
ClientSampleId :  
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Tgt Ion:112 Resp: 1712  
Ion Ratio Lower Upper  
112 100  
64 52.0 41.5 62.3  
63 29.1 21.7 32.5



#5  
Phenol-d6  
Concen: 0.049 ng  
RT: 7.221 min Scan# 601  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

Tgt Ion: 99 Resp: 1108  
Ion Ratio Lower Upper  
99 100  
42 19.5 13.6 20.4  
71 29.7 26.0 39.0

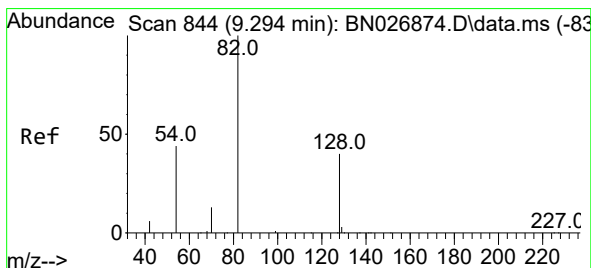
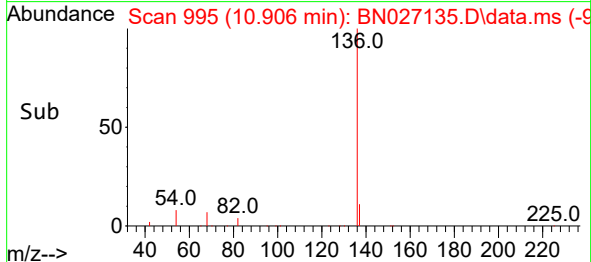
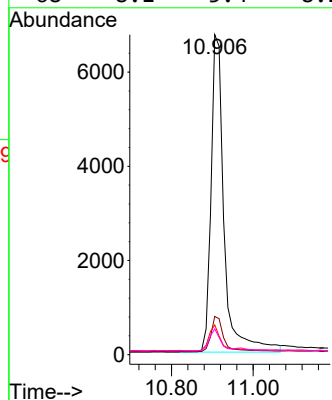
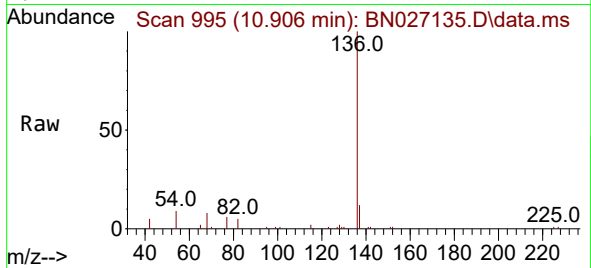




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.906 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

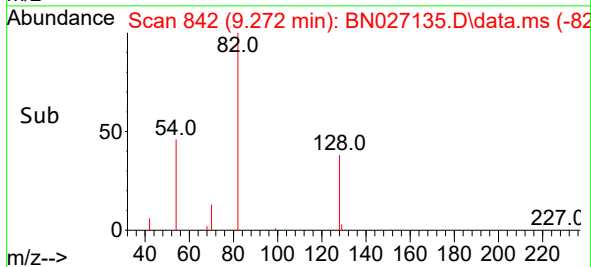
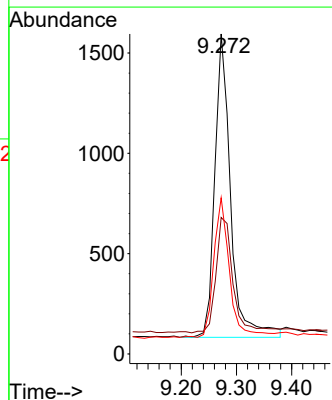
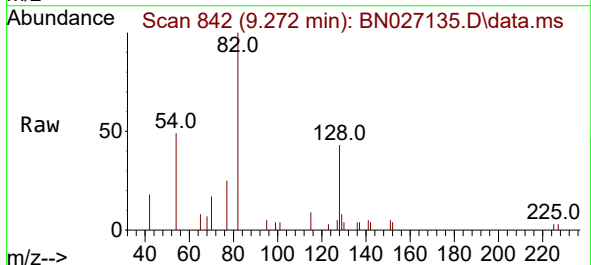
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D2-20230814

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 14985 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.9  | 9.0   | 13.6  |
| 54       | 9.3   | 5.5   | 8.3   |
| 68       | 8.1   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 0.237 ng  
RT: 9.272 min Scan# 842  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 3004  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.6  | 34.1  | 51.1  |
| 54       | 48.8  | 37.0  | 55.4  |

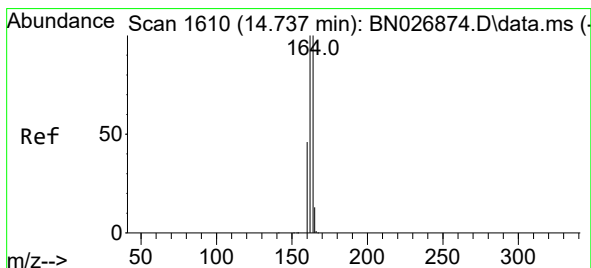
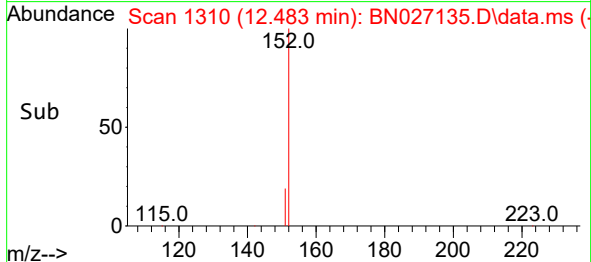
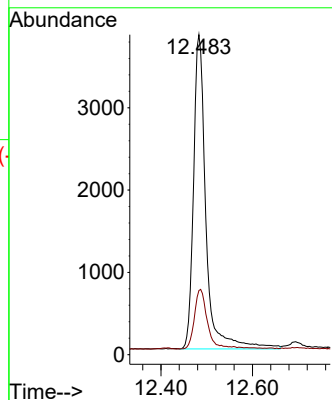
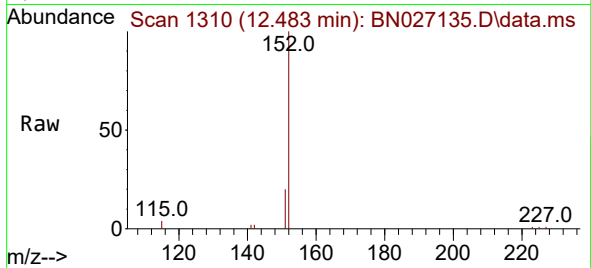




#11  
2-Methylnaphthalene-d10  
Concen: 0.302 ng  
RT: 12.483 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

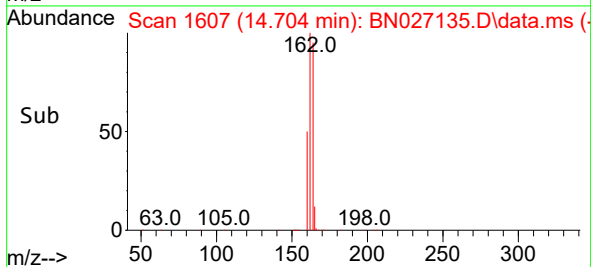
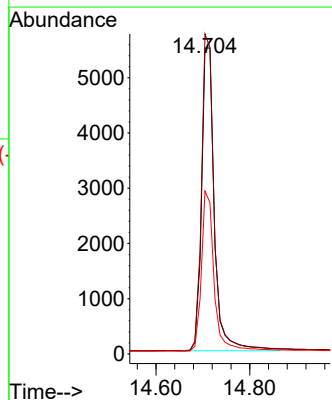
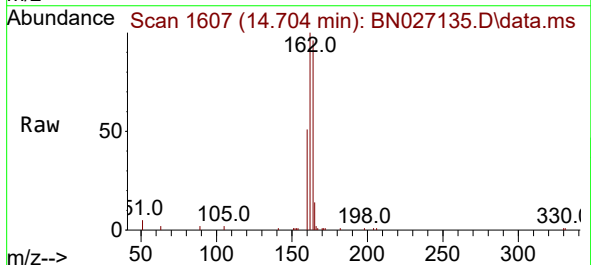
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D2-20230814

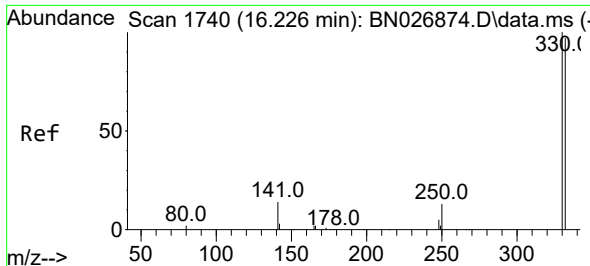
Tgt Ion:152 Resp: 7196  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.3 24.5



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.704 min Scan# 1607  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

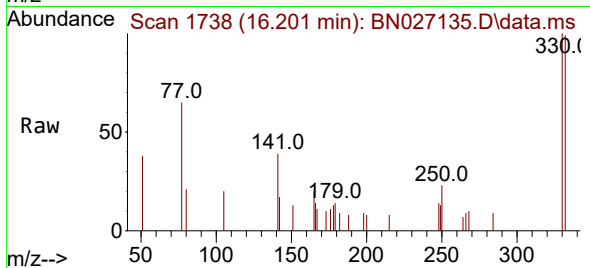
Tgt Ion:164 Resp: 10460  
Ion Ratio Lower Upper  
164 100  
162 104.6 79.7 119.5  
160 53.2 37.4 56.0



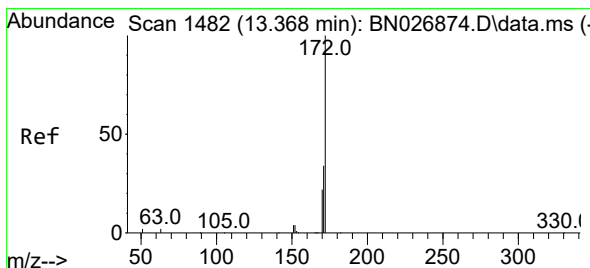
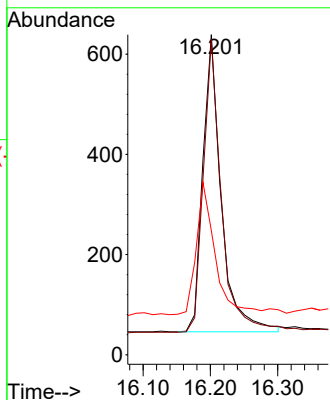
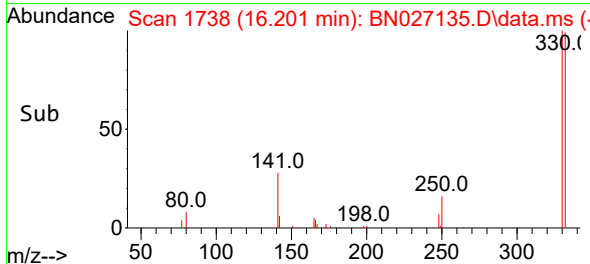


#14  
2,4,6-Tribromophenol  
Concen: 0.203 ng  
RT: 16.201 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

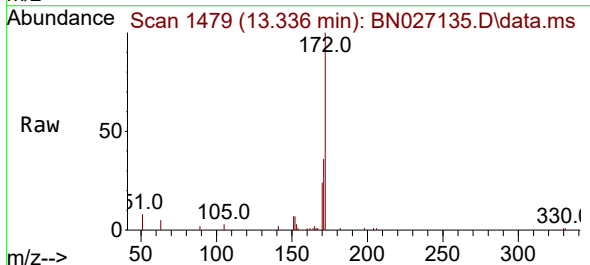
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D2-20230814



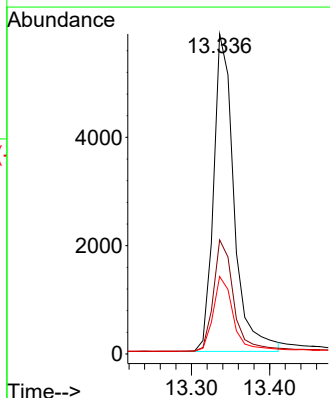
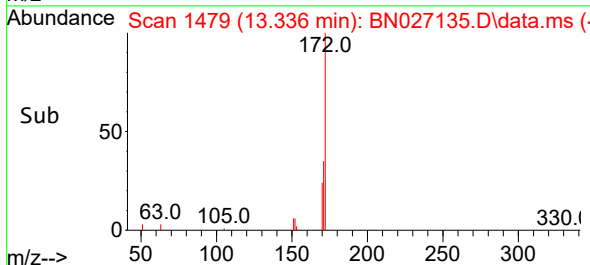
Tgt Ion:330 Resp: 1130  
Ion Ratio Lower Upper  
330 100  
332 96.1 76.6 114.8  
141 46.6 32.3 48.5

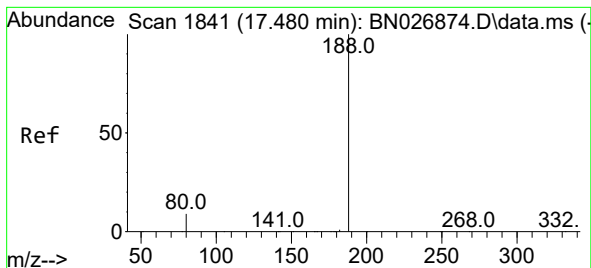


#15  
2-Fluorobiphenyl  
Concen: 0.275 ng  
RT: 13.336 min Scan# 1479  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17



Tgt Ion:172 Resp: 10669  
Ion Ratio Lower Upper  
172 100  
171 35.7 27.4 41.0  
170 24.2 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: BN027135.D

Acq: 26 Aug 2023 01:17

Instrument :

BNA\_N

ClientSampleId :

RE126D2-20230814

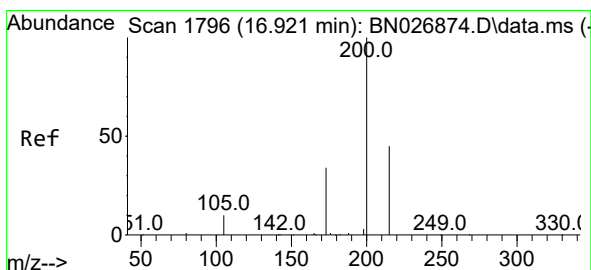
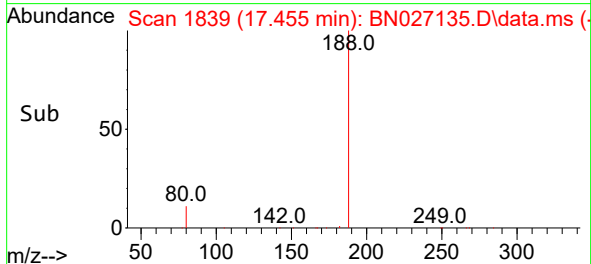
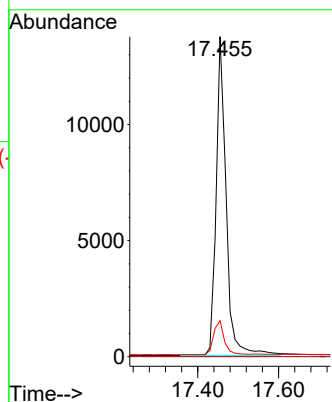
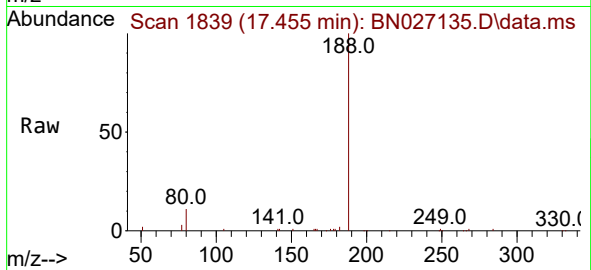
Tgt Ion:188 Resp: 23695

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 7.4 11.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.022 ng

RT: 16.909 min Scan# 1795

Delta R.T. -0.000 min

Lab File: BN027135.D

Acq: 26 Aug 2023 01:17

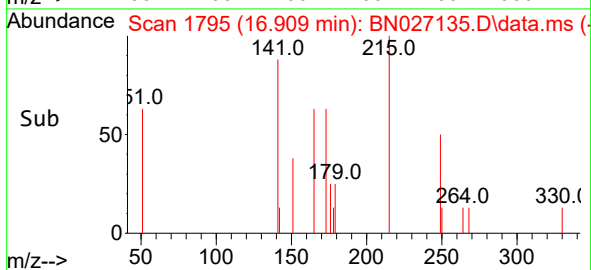
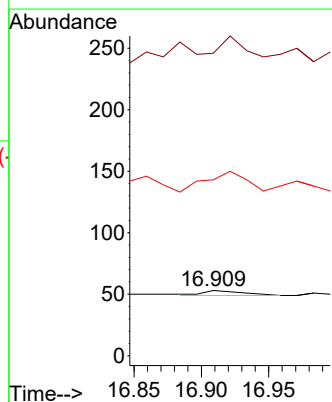
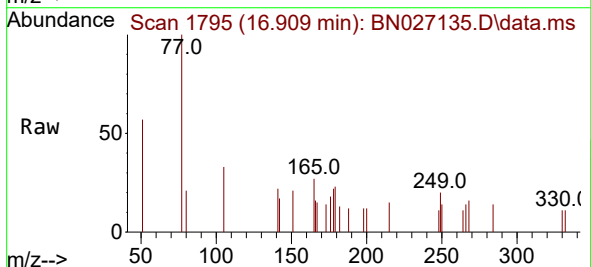
Tgt Ion:198 Resp: 8

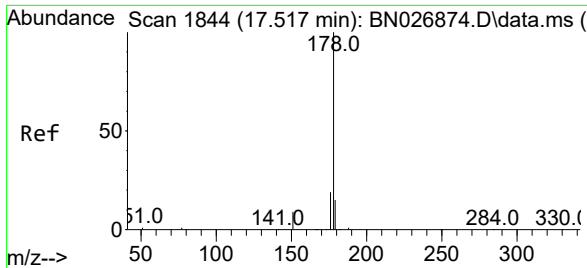
Ion Ratio Lower Upper

198 100

51 464.2 143.8 215.8#

105 269.8 273.5 410.3#

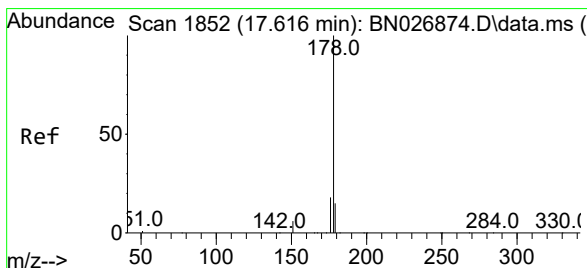
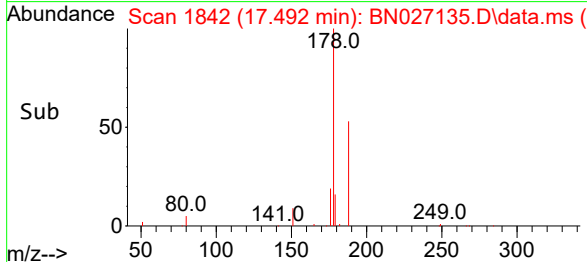
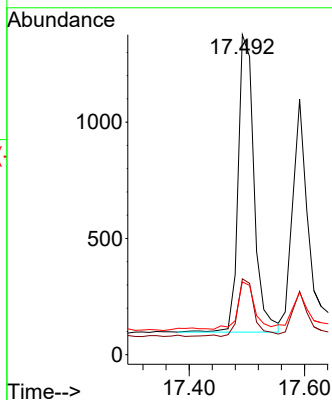
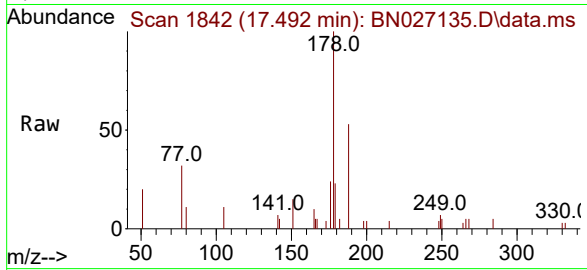




#25  
Phenanthrene  
Concen: 0.036 ng  
RT: 17.492 min Scan# 1842  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

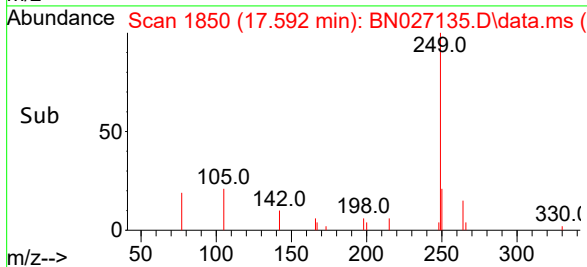
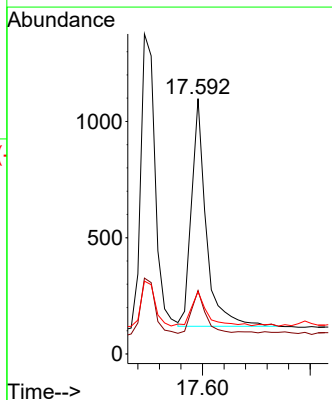
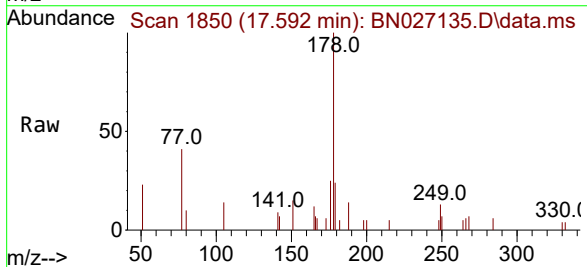
Instrument :  
BNA\_N  
ClientSampleId :  
RE126D2-20230814

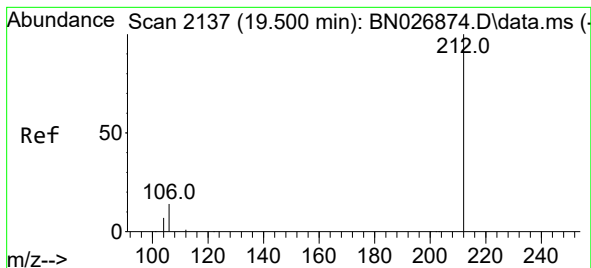
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Ion Ratio Lower Upper  
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176 19.7 15.3 22.9  
179 16.5 12.2 18.4



#26  
Anthracene  
Concen: 0.029 ng  
RT: 17.592 min Scan# 1850  
Delta R.T. -0.000 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

Tgt Ion:178 Resp: 1863  
Ion Ratio Lower Upper  
178 100  
176 17.8 14.8 22.2  
179 16.0 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.367 ng

RT: 19.476 min Scan# 2137

Delta R.T. -0.000 min

Lab File: BN027135.D

Acq: 26 Aug 2023 01:17

Instrument :

BNA\_N

ClientSampleId :

RE126D2-20230814

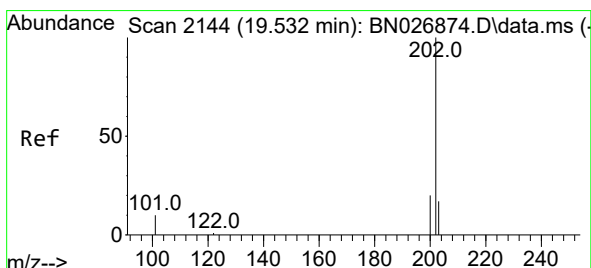
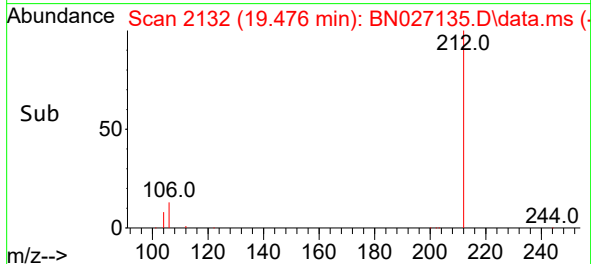
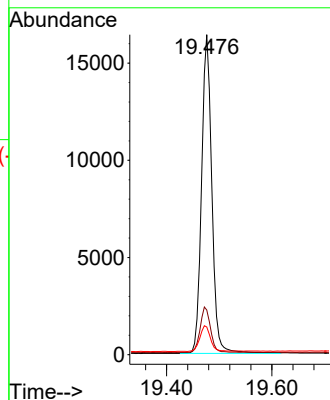
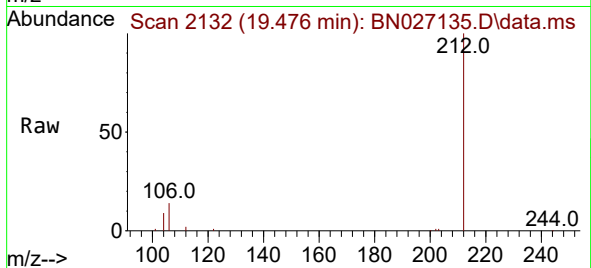
Tgt Ion:212 Resp: 22298

Ion Ratio Lower Upper

212 100

106 14.4 10.9 16.3

104 8.4 5.9 8.9



#28

Fluoranthene

Concen: 0.055 ng

RT: 19.504 min Scan# 2138

Delta R.T. -0.005 min

Lab File: BN027135.D

Acq: 26 Aug 2023 01:17

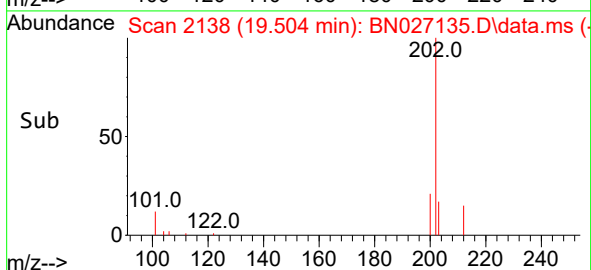
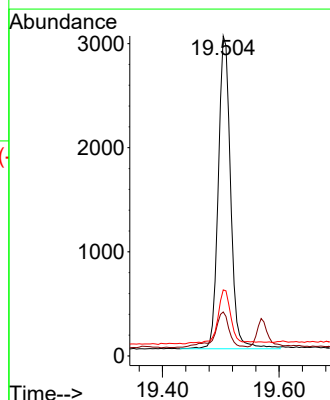
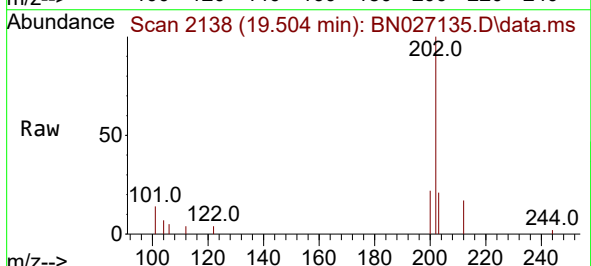
Tgt Ion:202 Resp: 4403

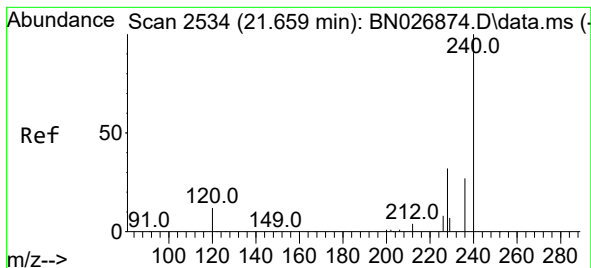
Ion Ratio Lower Upper

202 100

101 13.4 8.9 13.3#

203 18.1 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: BN027135.D

Acq: 26 Aug 2023 01:17

Instrument :

BNA\_N

ClientSampleId :

RE126D2-20230814

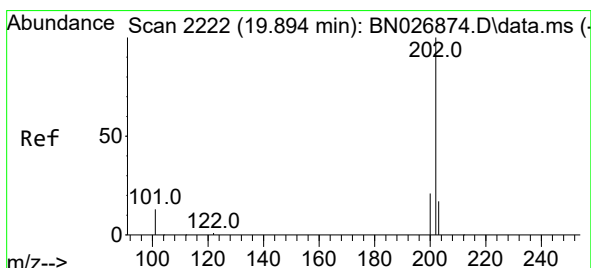
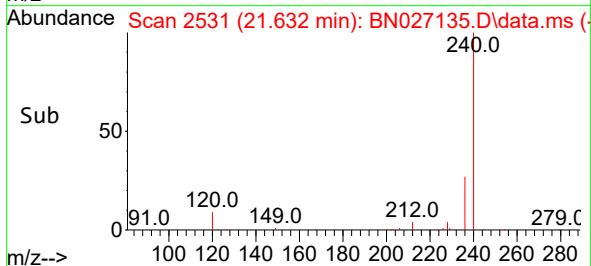
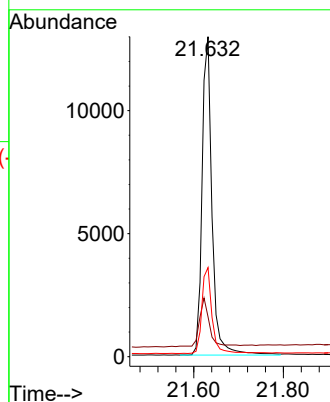
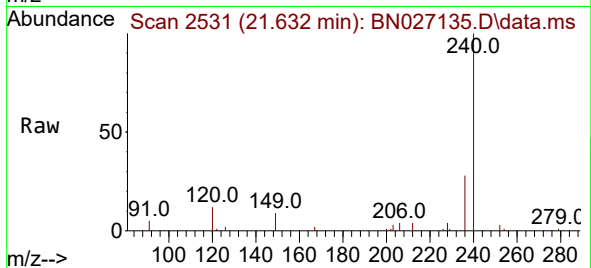
Tgt Ion:240 Resp: 20028

Ion Ratio Lower Upper

240 100

120 12.4 11.1 16.7

236 27.9 22.2 33.2



#30

Pyrene

Concen: 0.059 ng

RT: 19.871 min Scan# 2217

Delta R.T. -0.000 min

Lab File: BN027135.D

Acq: 26 Aug 2023 01:17

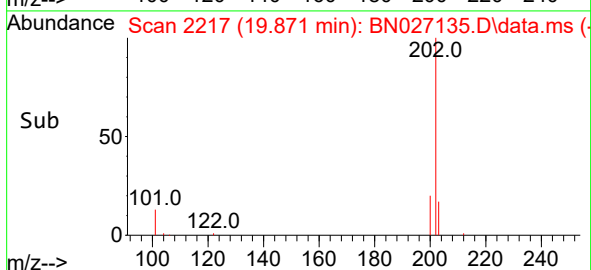
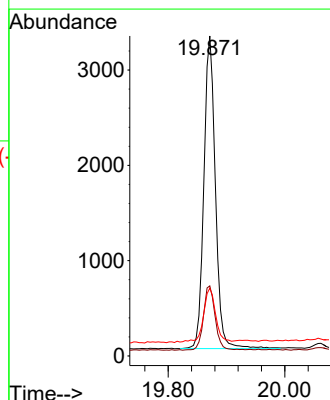
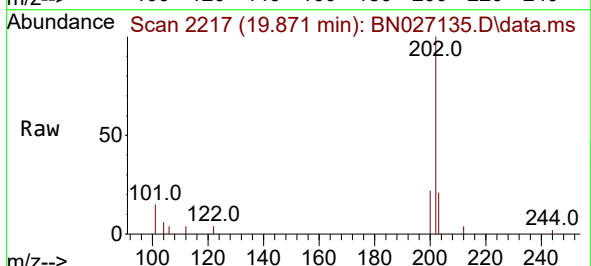
Tgt Ion:202 Resp: 4532

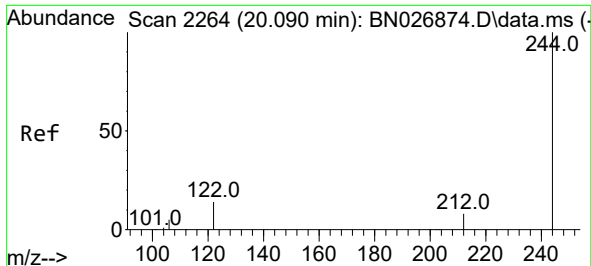
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

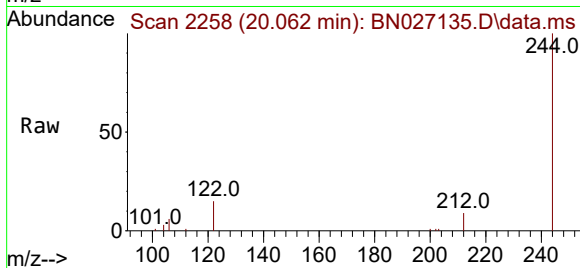
203 18.7 14.4 21.6



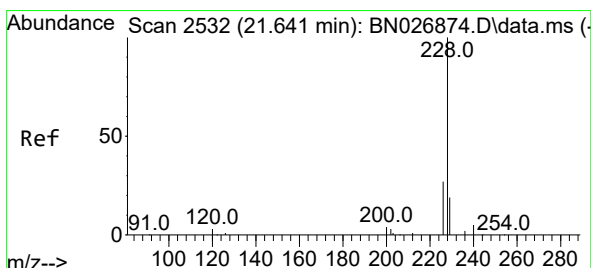
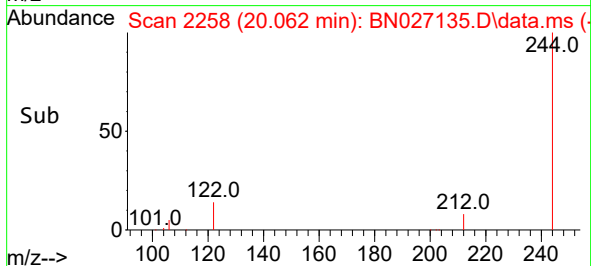
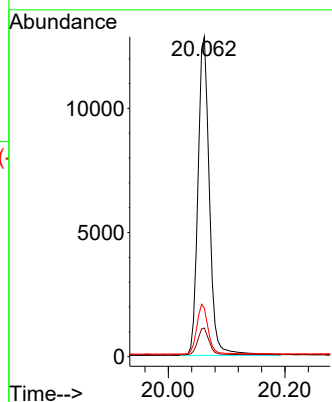


#31  
 Terphenyl-d14  
 Concen: 0.419 ng  
 RT: 20.062 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BN027135.D  
 Acq: 26 Aug 2023 01:17

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE126D2-20230814

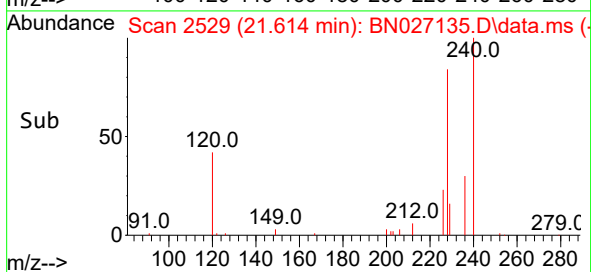
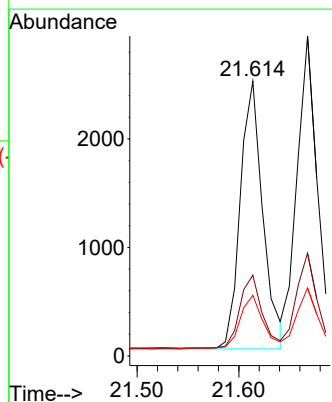
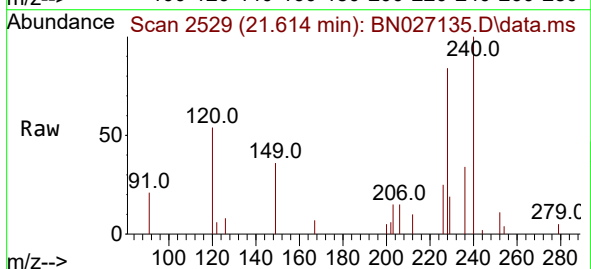


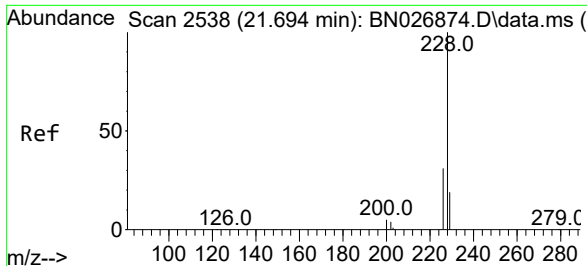
Tgt Ion:244 Resp: 17546  
 Ion Ratio Lower Upper  
 244 100  
 212 8.9 6.9 10.3  
 122 15.1 11.9 17.9



#32  
 Benzo(a)anthracene  
 Concen: 0.053 ng  
 RT: 21.614 min Scan# 2529  
 Delta R.T. -0.000 min  
 Lab File: BN027135.D  
 Acq: 26 Aug 2023 01:17

Tgt Ion:228 Resp: 3803  
 Ion Ratio Lower Upper  
 228 100  
 226 29.4 22.1 33.1  
 229 22.1 15.5 23.3





#33

Chrysene

Concen: 0.057 ng

RT: 21.667 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN027135.D

Acq: 26 Aug 2023 01:17

Instrument :

BNA\_N

ClientSampleId :

RE126D2-20230814

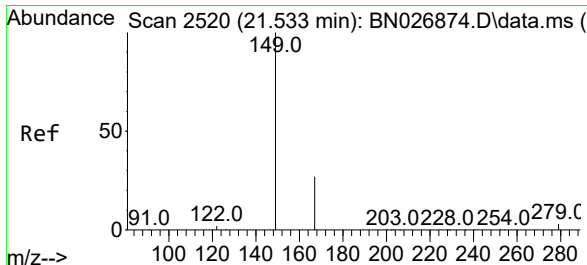
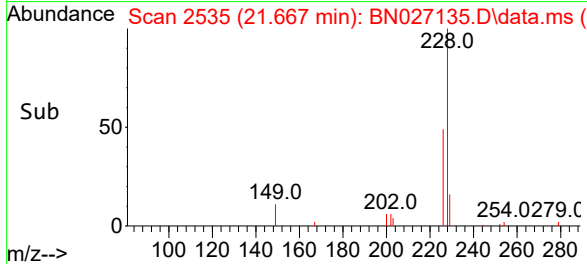
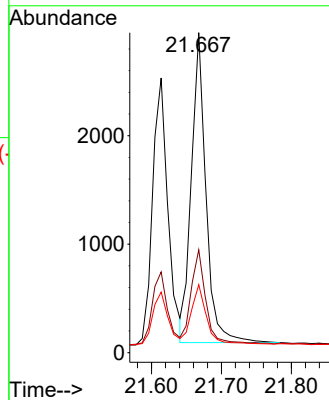
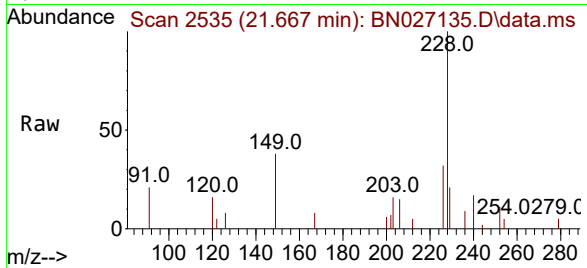
Tgt Ion:228 Resp: 4133

Ion Ratio Lower Upper

228 100

226 32.1 24.6 37.0

229 21.2 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.069 ng

RT: 21.488 min Scan# 2515

Delta R.T. -0.009 min

Lab File: BN027135.D

Acq: 26 Aug 2023 01:17

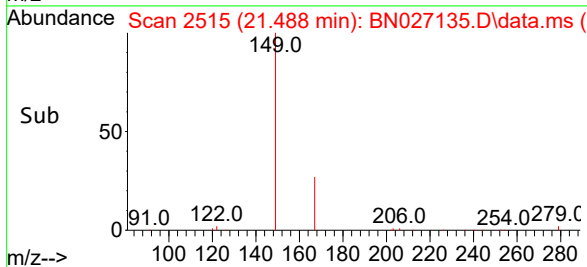
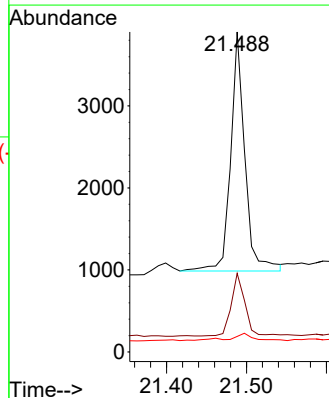
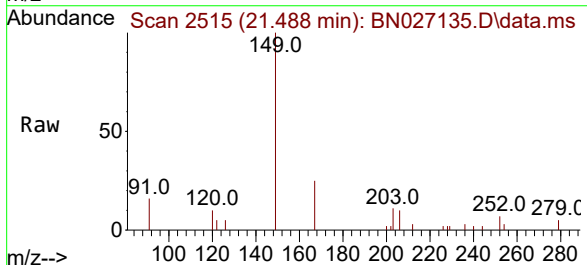
Tgt Ion:149 Resp: 3609

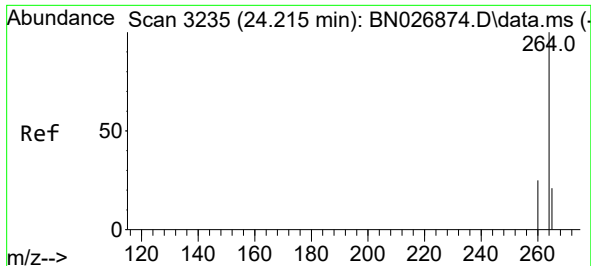
Ion Ratio Lower Upper

149 100

167 24.6 21.4 32.0

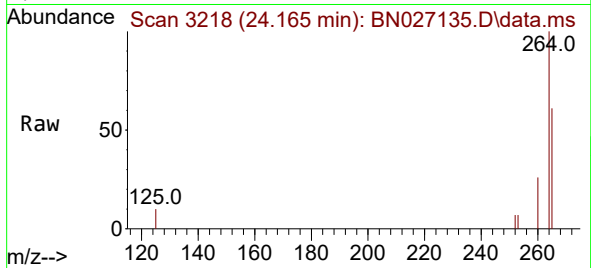
279 3.6 3.6 5.4



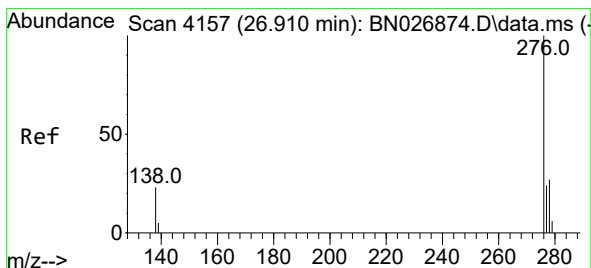
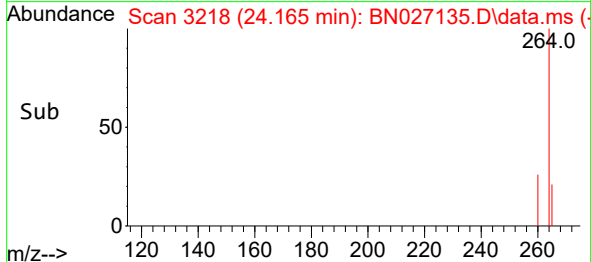
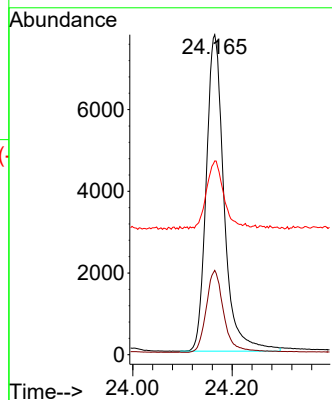


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 24.165 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

Instrument :  
BNA\_N  
ClientSampleId :  
RE126D2-20230814

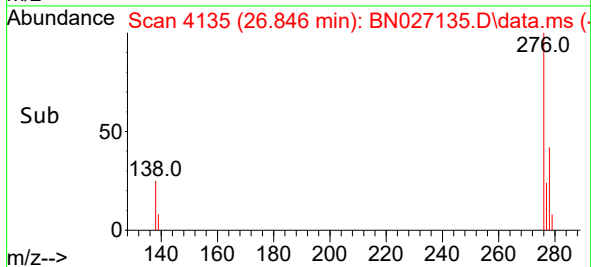
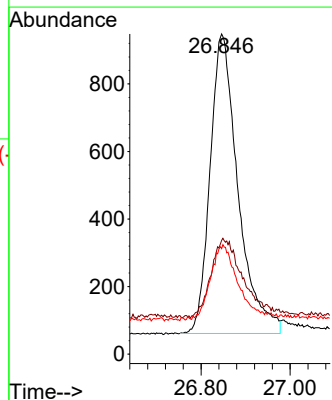
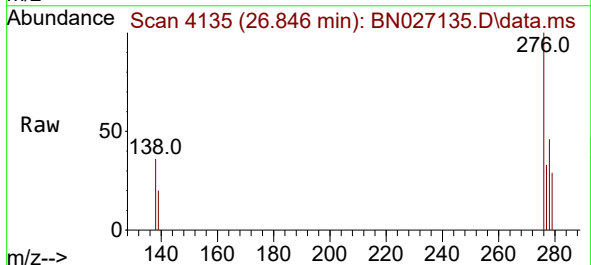


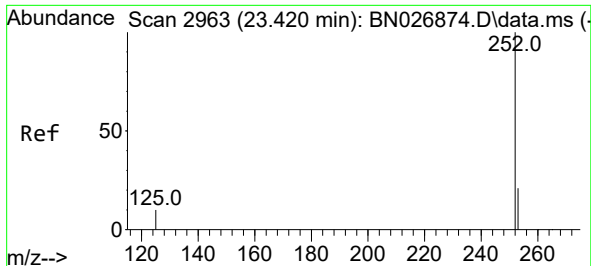
Tgt Ion:264 Resp: 19333  
Ion Ratio Lower Upper  
264 100  
260 26.4 20.4 30.6  
265 60.6 27.0 40.6#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.049 ng  
RT: 26.846 min Scan# 4135  
Delta R.T. -0.006 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

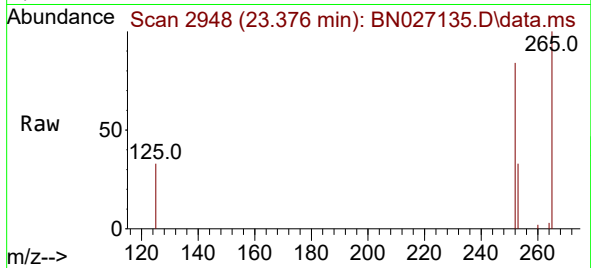
Tgt Ion:276 Resp: 3865  
Ion Ratio Lower Upper  
276 100  
138 29.7 21.1 31.7  
277 24.0 19.9 29.9



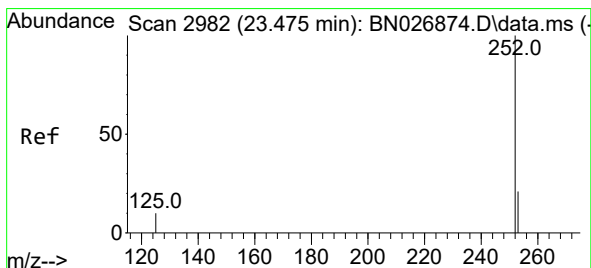
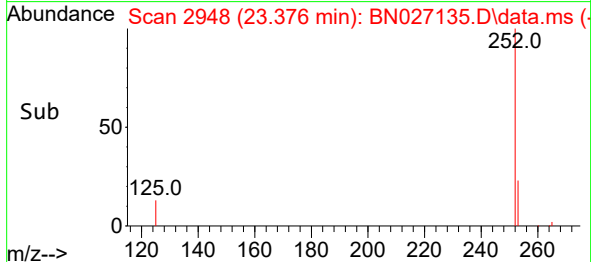
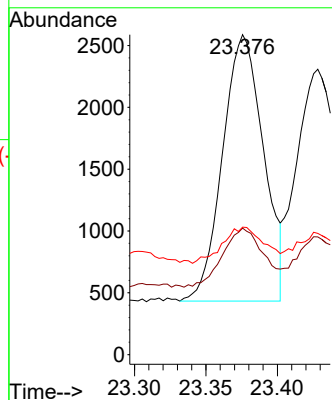


#37  
Benzo(b)fluoranthene  
Concen: 0.066 ng  
RT: 23.376 min Scan# 2948  
Delta R.T. -0.003 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

Instrument :  
BNA\_N  
ClientSampleId :  
RE126D2-20230814

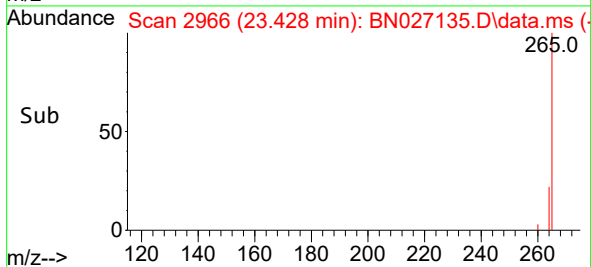
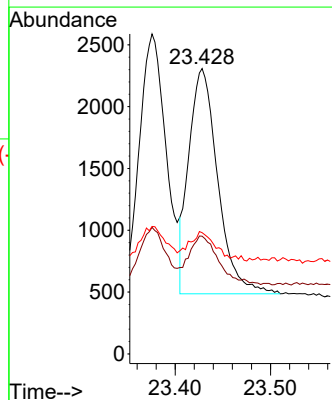
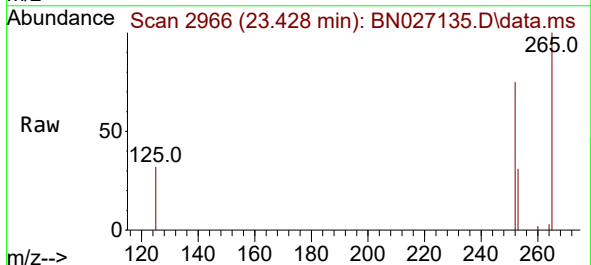


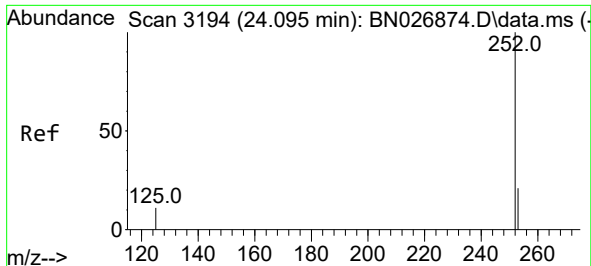
Tgt Ion:252 Resp: 4291  
Ion Ratio Lower Upper  
252 100  
253 39.6 18.4 27.6#  
125 39.8 10.2 15.2#



#38  
Benzo(k)fluoranthene  
Concen: 0.058 ng  
RT: 23.428 min Scan# 2966  
Delta R.T. -0.003 min  
Lab File: BN027135.D  
Acq: 26 Aug 2023 01:17

Tgt Ion:252 Resp: 3851  
Ion Ratio Lower Upper  
252 100  
253 41.2 18.4 27.6#  
125 42.5 10.2 15.2#





#39

Benzo(a)pyrene

Concen: 0.046 ng

RT: 24.051 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN027135.D

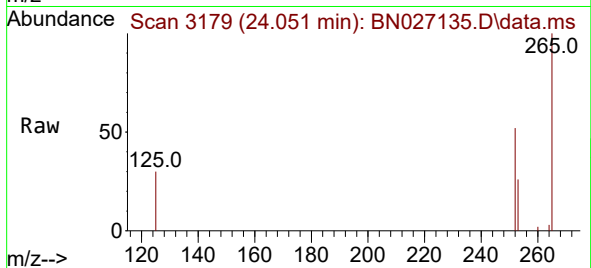
Acq: 26 Aug 2023 01:17

Instrument :

BNA\_N

ClientSampleId :

RE126D2-20230814



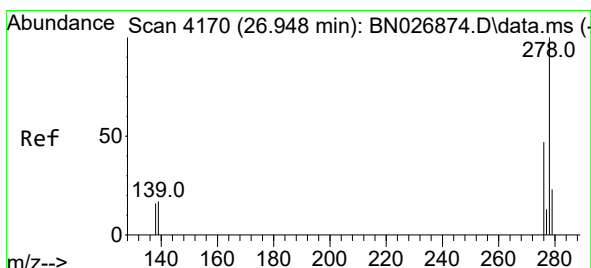
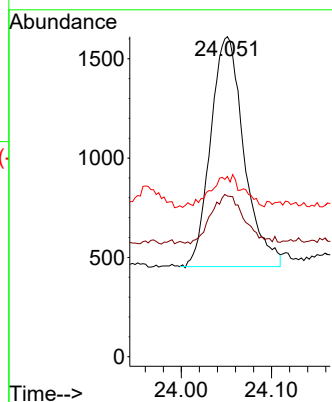
Tgt Ion:252 Resp: 2974

Ion Ratio Lower Upper

252 100

253 50.2 18.6 28.0#

125 56.3 11.7 17.5#



#40

Dibenzo(a,h)anthracene

Concen: 0.046 ng

RT: 26.878 min Scan# 4146

Delta R.T. -0.003 min

Lab File: BN027135.D

Acq: 26 Aug 2023 01:17

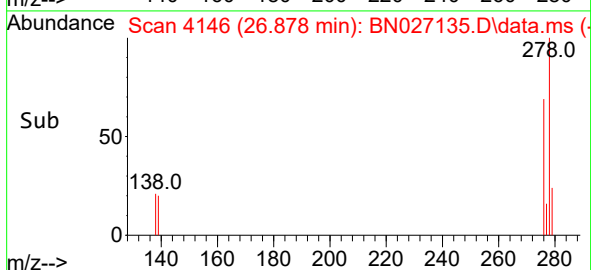
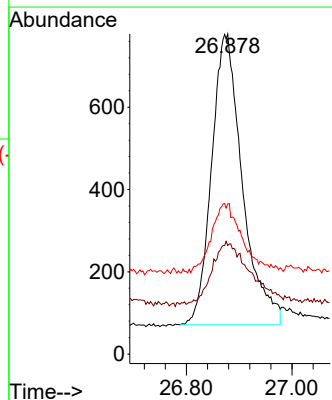
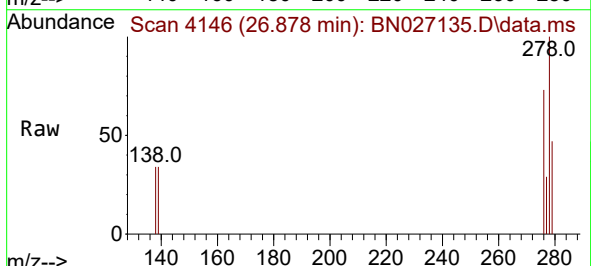
Tgt Ion:278 Resp: 2870

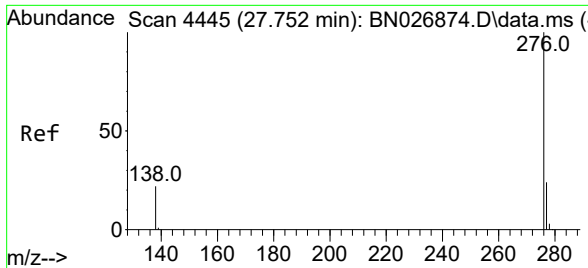
Ion Ratio Lower Upper

278 100

139 33.9 15.3 22.9#

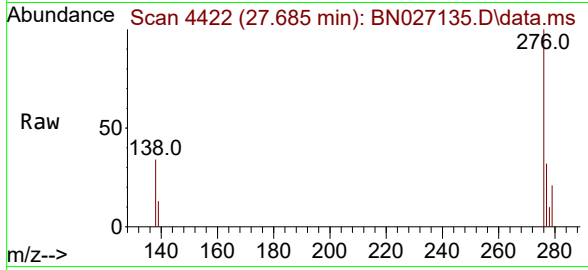
279 46.9 19.9 29.9#





#41  
 Benzo(g,h,i)perylene  
 Concen: 0.053 ng  
 RT: 27.685 min Scan# 44  
 Delta R.T. -0.003 min  
 Lab File: BN027135.D  
 Acq: 26 Aug 2023 01:17

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE126D2-20230814



Tgt Ion:276 Resp: 3584  
 Ion Ratio Lower Upper  
 276 100  
 277 32.2 19.8 29.8#  
 138 34.4 19.0 28.4#

