

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080723\  
 Data File : BN026834.D  
 Acq On : 07 Aug 2023 17:07  
 Operator : MA/JU  
 Sample : 03909-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP-100-20230803

Quant Time: Aug 08 00:50:56 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN080123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 02 00:35:47 2023  
 Response via : Initial Calibration

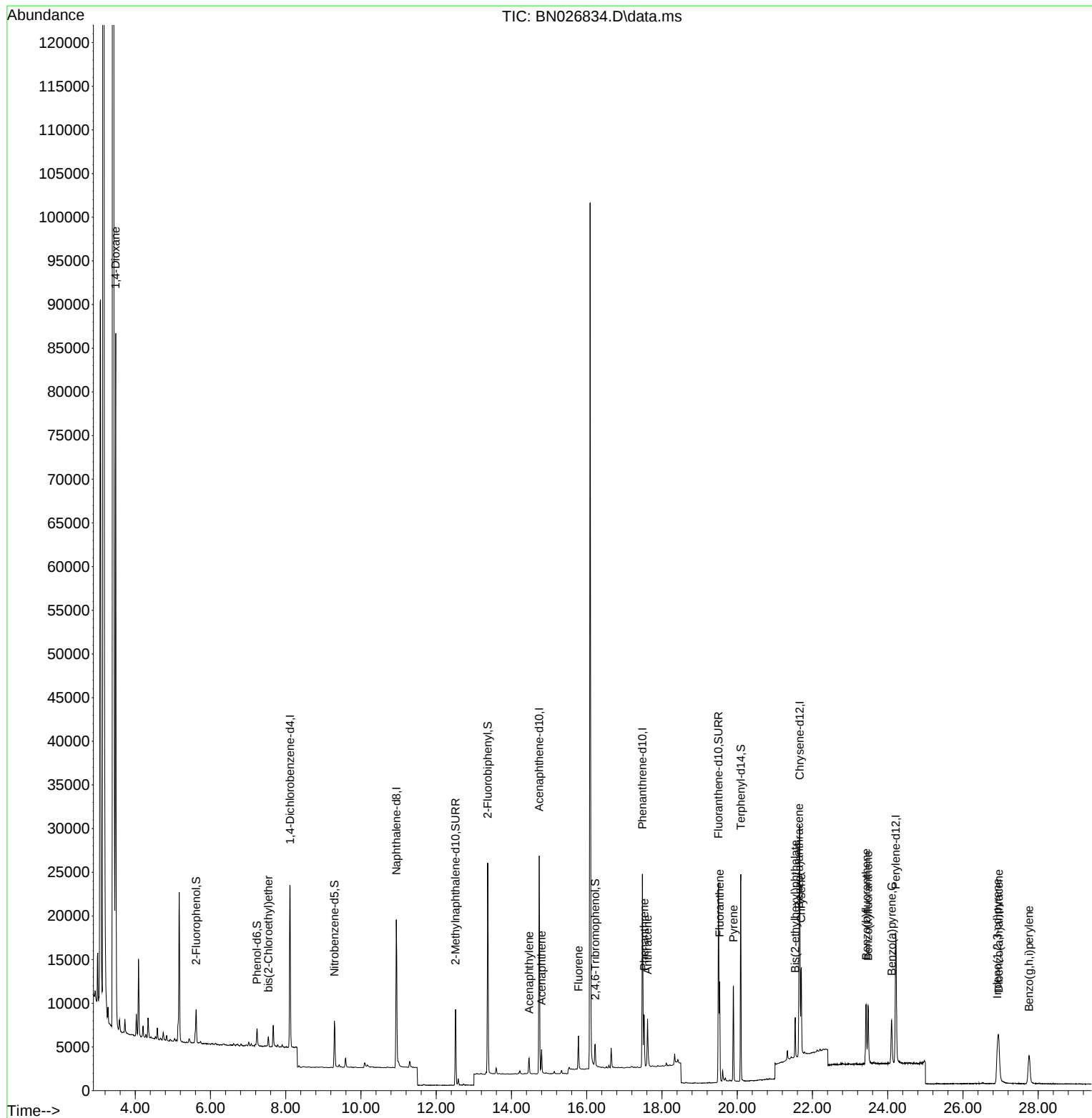
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.117  | 152  | 9068     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.938 | 136  | 24153    | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 14.737 | 164  | 13728    | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.480 | 188  | 29160    | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.659 | 240  | 22671    | 0.400 | ng    | #-0.02   |
| 35) Perylene-d12              | 24.215 | 264  | 23749    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.618  | 112  | 3045     | 0.133 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.235  | 99   | 1940     | 0.065 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 9.294  | 82   | 4646     | 0.325 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 12.513 | 152  | 11886    | 0.343 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 16.226 | 330  | 1728     | 0.370 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.368 | 172  | 20687    | 0.369 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.504 | 212  | 25149    | 0.359 | ng    | 0.00     |
| 31) Terphenyl-d14             | 20.094 | 244  | 23540    | 0.498 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.480  | 88   | 48640    | 4.595 | ng    | 95       |
| 6) bis(2-Chloroethyl)ether    | 7.539  | 93   | 858      | 0.032 | ng    | 98       |
| 16) Acenaphthylene            | 14.469 | 152  | 2656     | 0.039 | ng    | 98       |
| 17) Acenaphthene              | 14.801 | 154  | 1312     | 0.031 | ng    | 98       |
| 18) Fluorene                  | 15.779 | 166  | 2887     | 0.052 | ng    | 97       |
| 25) Phenanthrene              | 17.530 | 178  | 7259     | 0.082 | ng    | 99       |
| 26) Anthracene                | 17.617 | 178  | 6121     | 0.077 | ng    | # 95     |
| 28) Fluoranthene              | 19.532 | 202  | 9755     | 0.099 | ng    | 99       |
| 30) Pyrene                    | 19.899 | 202  | 10065    | 0.103 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.641 | 228  | 9511     | 0.122 | ng    | 97       |
| 33) Chrysene                  | 21.703 | 228  | 9327     | 0.108 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.542 | 149  | 4700     | 0.182 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 26.916 | 276  | 10554    | 0.109 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 23.425 | 252  | 10075    | 0.108 | ng    | # 89     |
| 38) Benzo(k)fluoranthene      | 23.478 | 252  | 9745     | 0.102 | ng    | # 87     |
| 39) Benzo(a)pyrene            | 24.104 | 252  | 8218     | 0.096 | ng    | # 85     |
| 40) Dibenzo(a,h)anthracene    | 26.951 | 278  | 8434     | 0.112 | ng    | 92       |
| 41) Benzo(g,h,i)perylene      | 27.758 | 276  | 8336     | 0.094 | ng    | 92       |

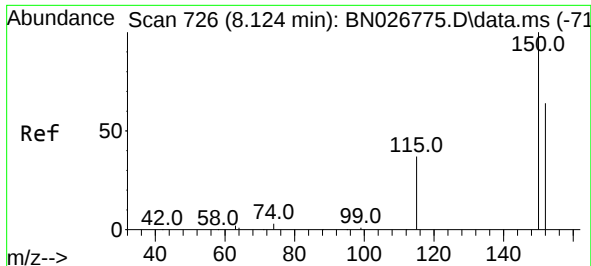
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080723\  
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Response via : Initial Calibration

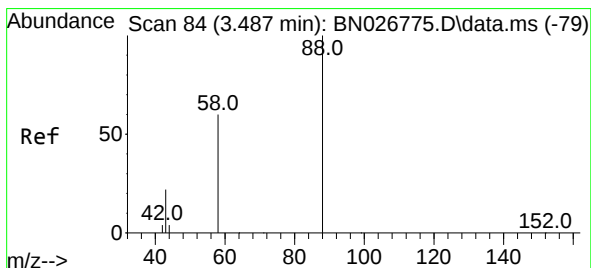
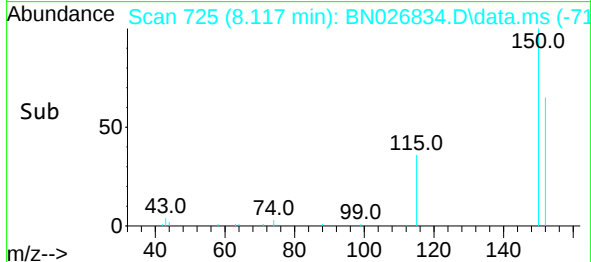
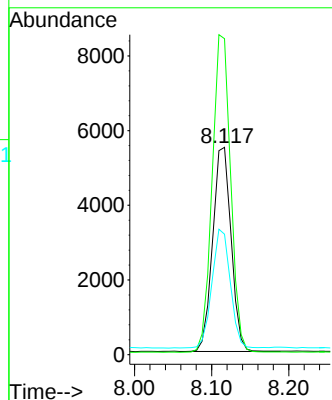
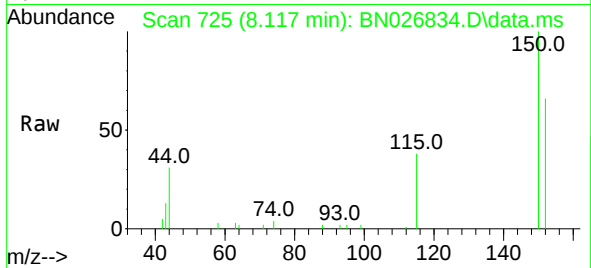




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 8.117 min Scan# 71  
 Delta R.T. -0.007 min  
 Lab File: BN026834.D  
 Acq: 07 Aug 2023 17:07

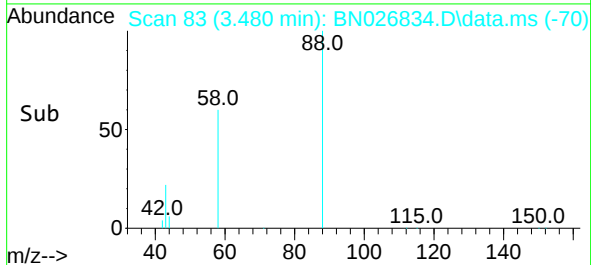
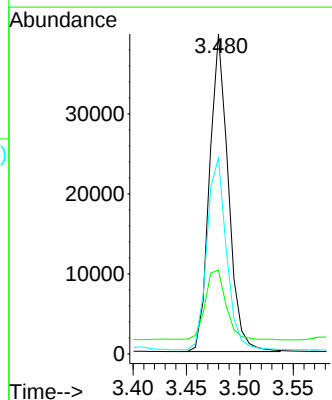
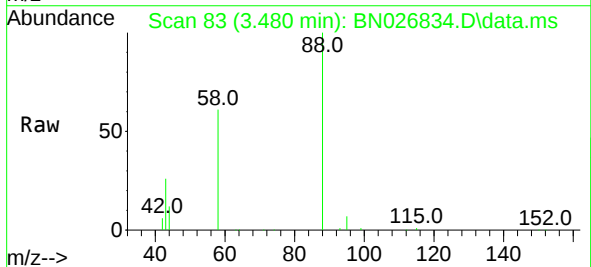
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP-100-20230803

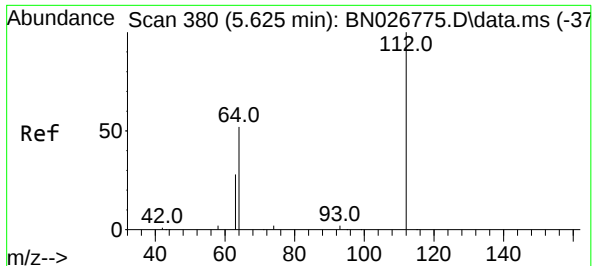
Tgt Ion:152 Resp: 9068  
 Ion Ratio Lower Upper  
 152 100  
 150 152.4 123.8 185.8  
 115 58.1 48.0 72.0



#2  
 1,4-Dioxane  
 Concen: 4.595 ng  
 RT: 3.480 min Scan# 83  
 Delta R.T. -0.007 min  
 Lab File: BN026834.D  
 Acq: 07 Aug 2023 17:07

Tgt Ion: 88 Resp: 48640  
 Ion Ratio Lower Upper  
 88 100  
 43 24.5 21.7 32.5  
 58 63.0 53.3 79.9

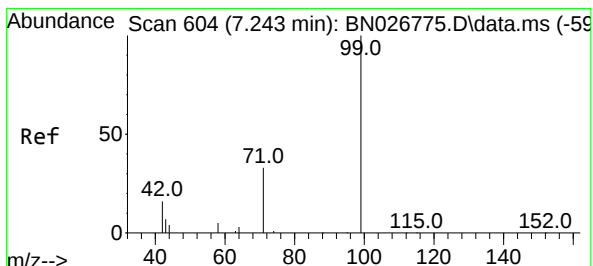
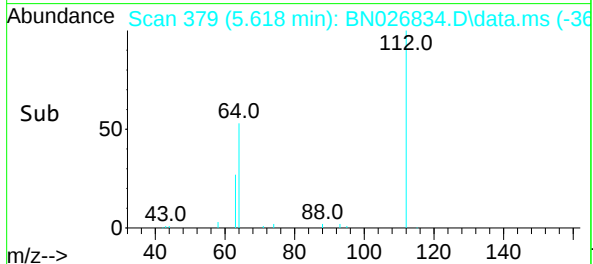
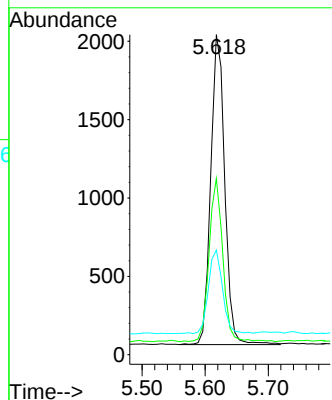
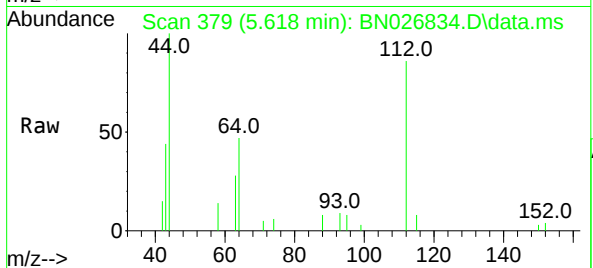




#4  
2-Fluorophenol  
Concen: 0.133 ng  
RT: 5.618 min Scan# 31  
Delta R.T. -0.007 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

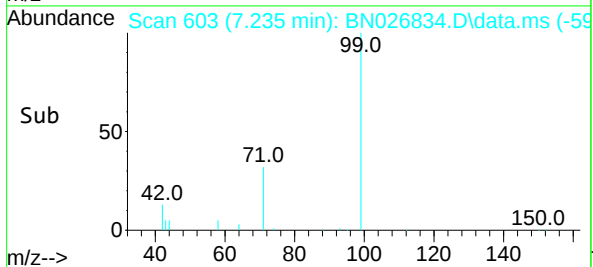
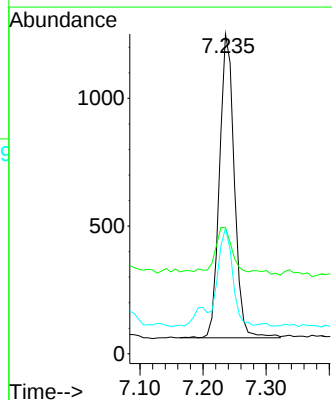
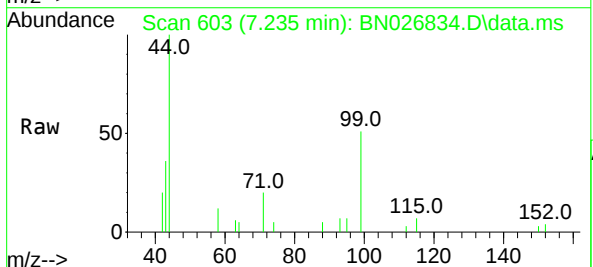
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20230803

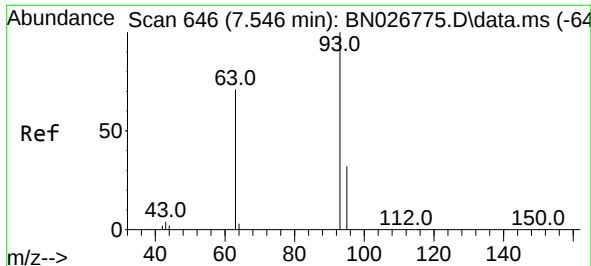
Tgt Ion:112 Resp: 3045  
Ion Ratio Lower Upper  
112 100  
64 51.8 42.2 63.2  
63 27.2 22.7 34.1



#5  
Phenol-d6  
Concen: 0.065 ng  
RT: 7.235 min Scan# 603  
Delta R.T. -0.007 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion: 99 Resp: 1940  
Ion Ratio Lower Upper  
99 100  
42 15.6 14.6 22.0  
71 37.8 26.6 40.0

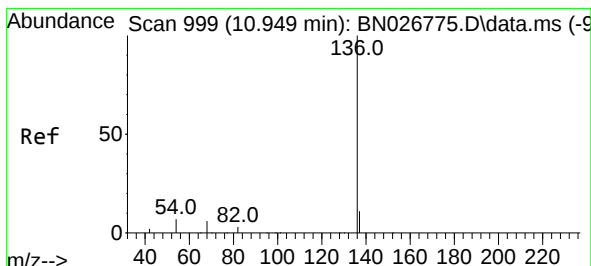
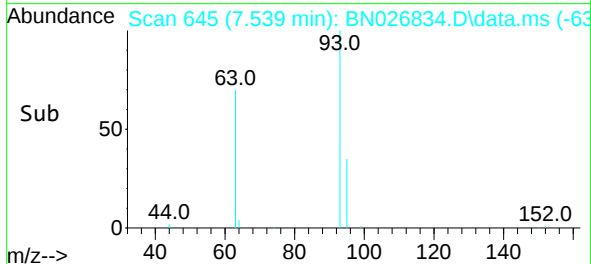
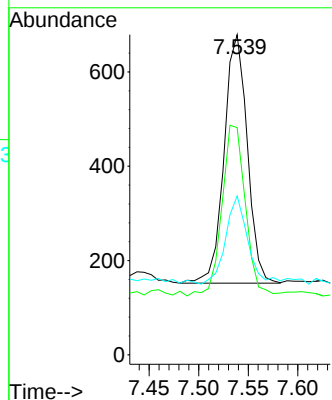
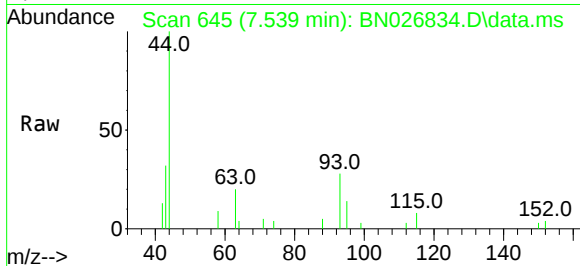




#6  
bis(2-Chloroethyl)ether  
Concen: 0.032 ng  
RT: 7.539 min Scan# 64  
Delta R.T. -0.007 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

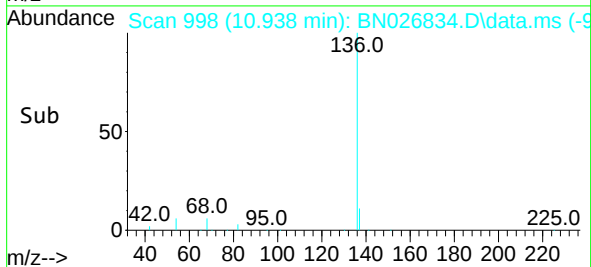
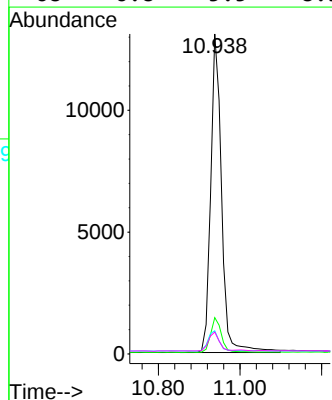
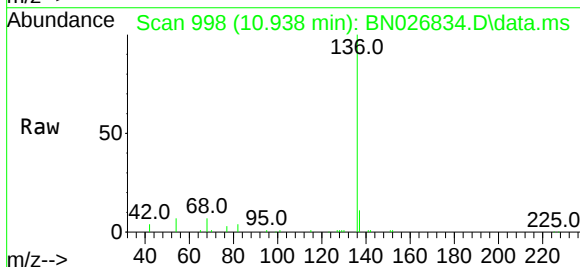
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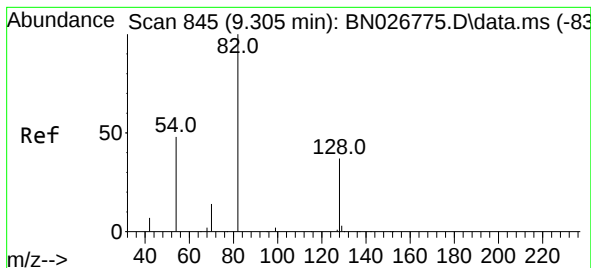
Tgt Ion: 93 Resp: 858  
Ion Ratio Lower Upper  
93 100  
63 69.5 56.7 85.1  
95 33.8 25.9 38.9



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.938 min Scan# 998  
Delta R.T. -0.011 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:136 Resp: 24153  
Ion Ratio Lower Upper  
136 100  
137 11.4 9.0 13.4  
54 7.3 6.2 9.2  
68 6.8 5.5 8.3

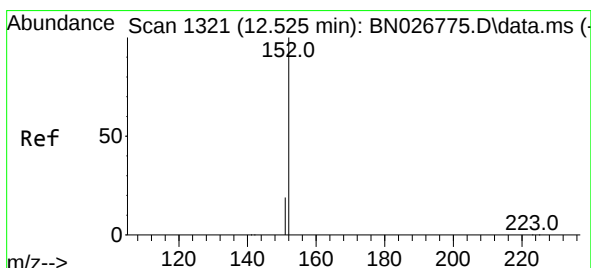
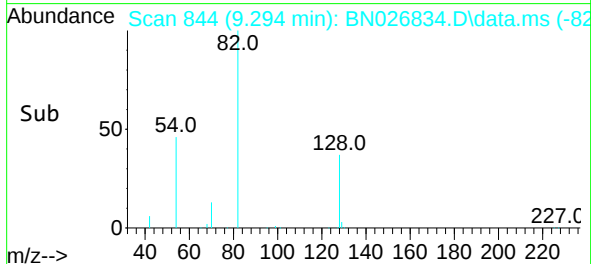
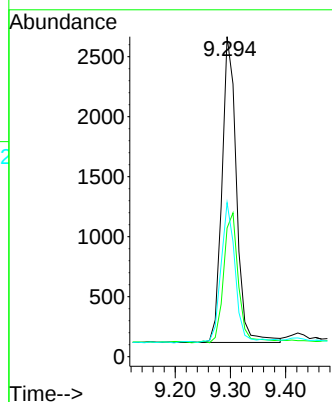
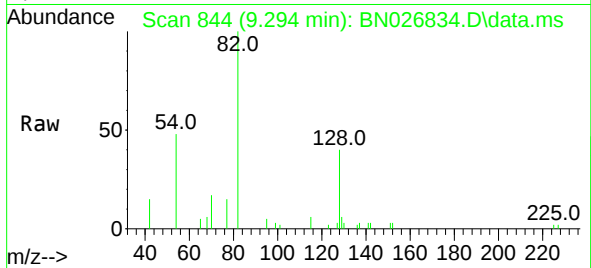




#8  
Nitrobenzene-d5  
Concen: 0.325 ng  
RT: 9.294 min Scan# 84  
Delta R.T. -0.011 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

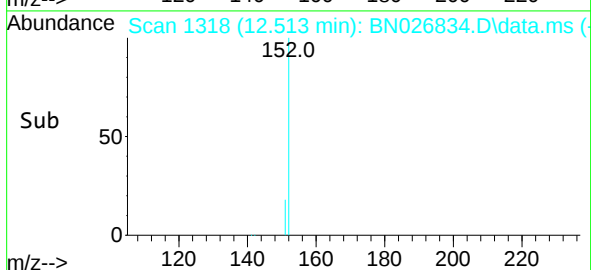
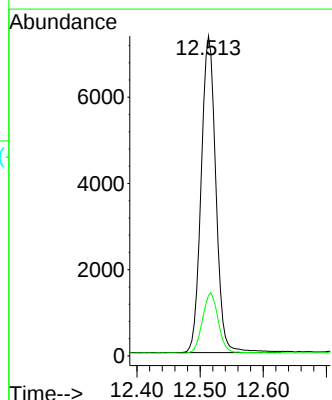
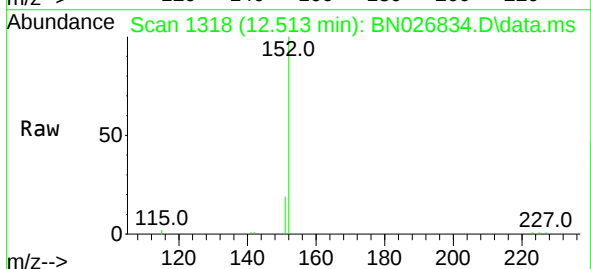
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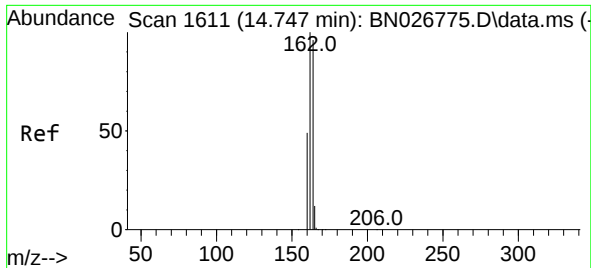
Tgt Ion: 82 Resp: 4646  
Ion Ratio Lower Upper  
82 100  
128 40.2 30.5 45.7  
54 48.2 39.4 59.2



#11  
2-Methylnaphthalene-d10  
Concen: 0.343 ng  
RT: 12.513 min Scan# 1318  
Delta R.T. -0.011 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion: 152 Resp: 11886  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.5 24.7

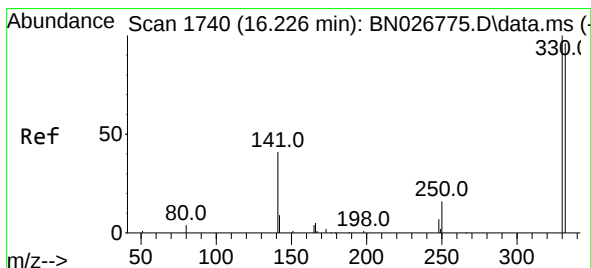
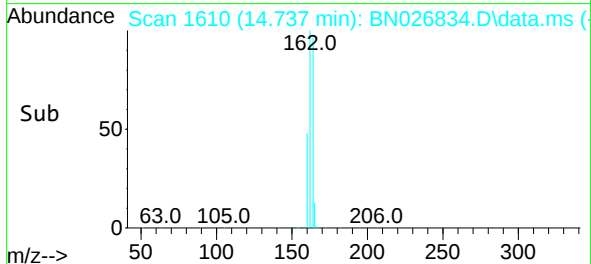
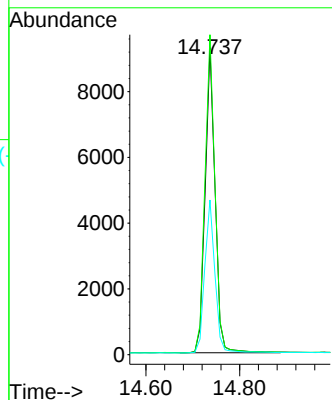
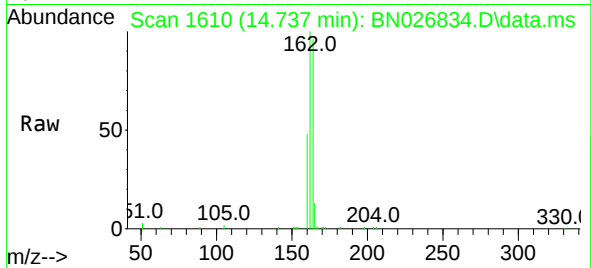




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.737 min Scan# 1610  
Delta R.T. -0.011 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

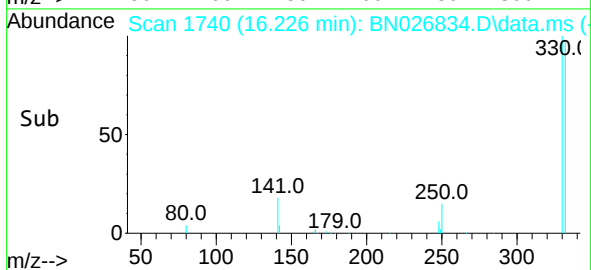
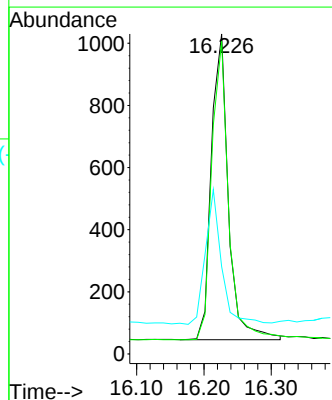
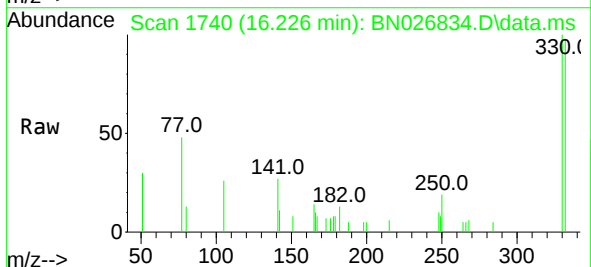
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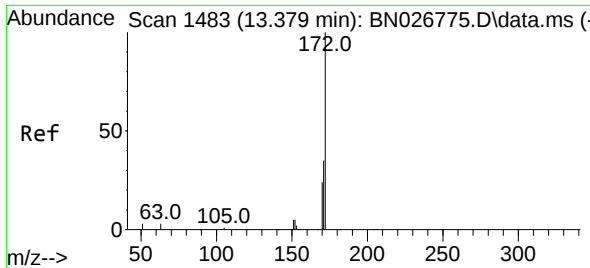
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Ion Ratio Lower Upper  
164 100  
162 104.2 83.0 124.6  
160 50.4 40.8 61.2



#14  
2,4,6-Tribromophenol  
Concen: 0.370 ng  
RT: 16.226 min Scan# 1740  
Delta R.T. -0.000 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:330 Resp: 1728  
Ion Ratio Lower Upper  
330 100  
332 96.2 77.8 116.6  
141 41.0 34.8 52.2

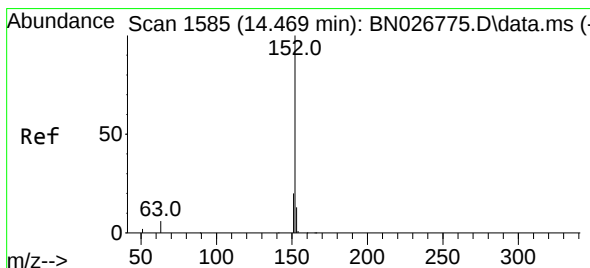
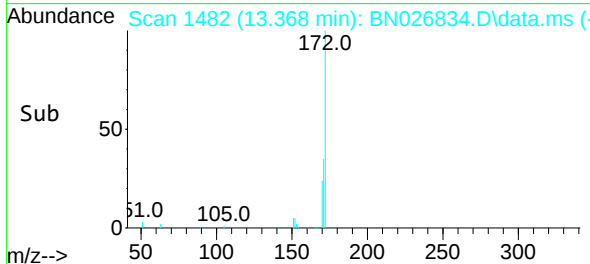
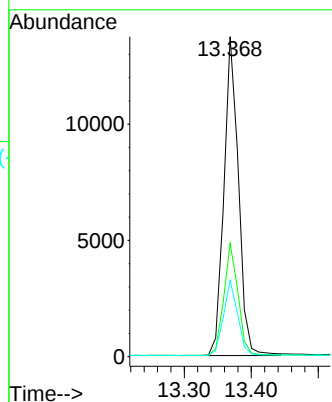
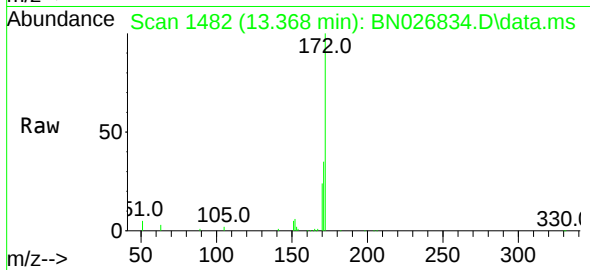




#15  
2-Fluorobiphenyl  
Concen: 0.369 ng  
RT: 13.368 min Scan# 1482  
Delta R.T. -0.011 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

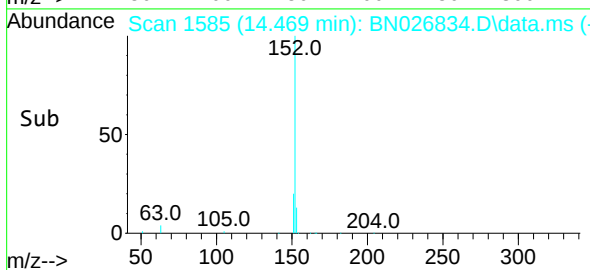
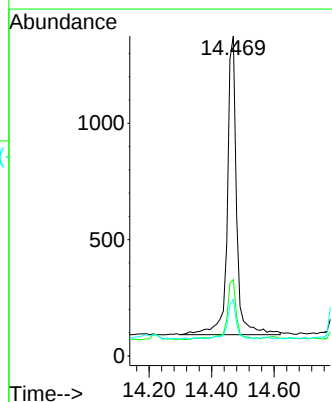
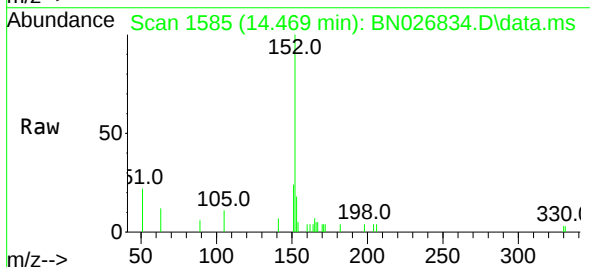
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20230803

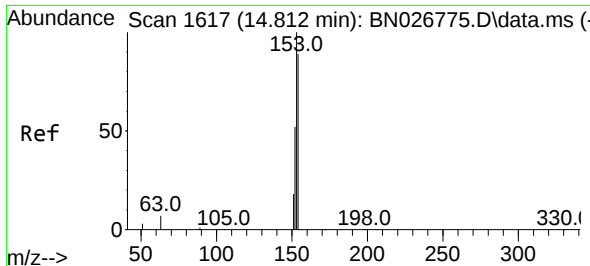
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Ion Ratio Lower Upper  
172 100  
171 35.4 28.0 42.0  
170 23.9 19.2 28.8



#16  
Acenaphthylene  
Concen: 0.039 ng  
RT: 14.469 min Scan# 1585  
Delta R.T. -0.000 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:152 Resp: 2656  
Ion Ratio Lower Upper  
152 100  
151 20.5 15.7 23.5  
153 12.7 10.5 15.7

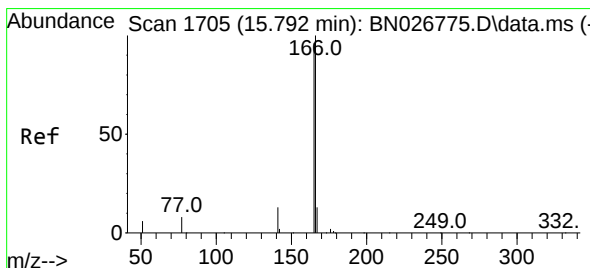
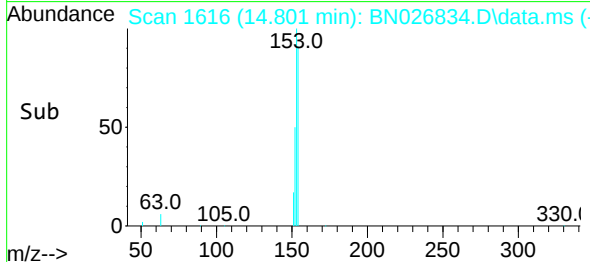
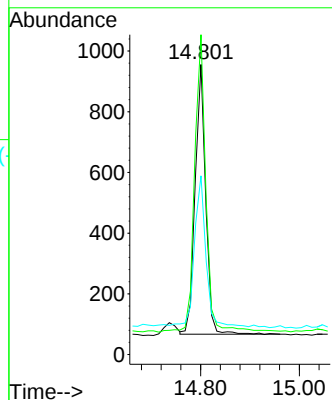
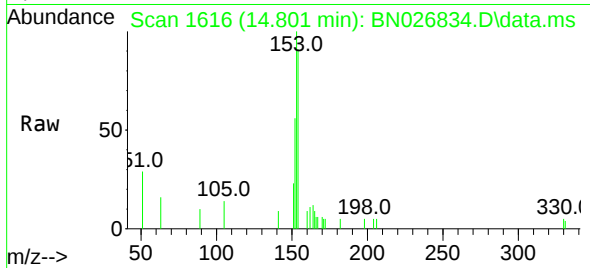




#17  
Acenaphthene  
Concen: 0.031 ng  
RT: 14.801 min Scan# 1  
Delta R.T. -0.011 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

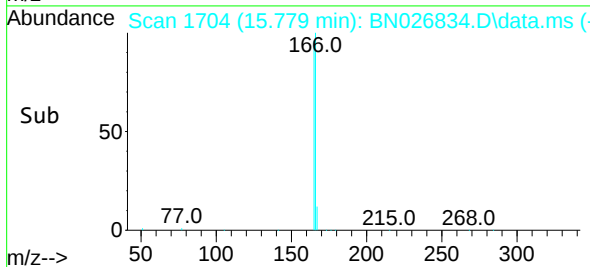
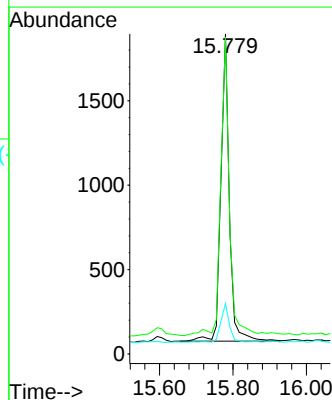
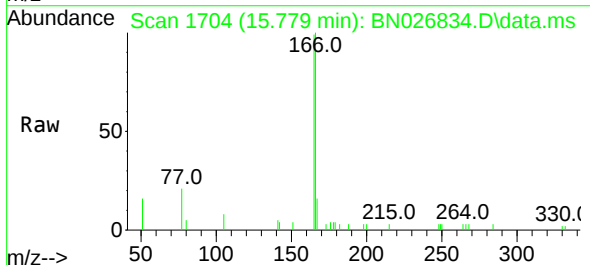
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20230803

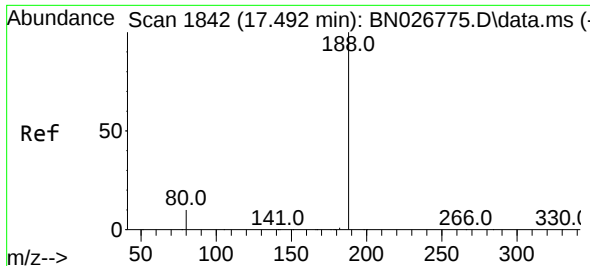
Tgt Ion:154 Resp: 1312  
Ion Ratio Lower Upper  
154 100  
153 115.9 90.0 135.0  
152 60.4 48.6 73.0



#18  
Fluorene  
Concen: 0.052 ng  
RT: 15.779 min Scan# 1704  
Delta R.T. -0.012 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:166 Resp: 2887  
Ion Ratio Lower Upper  
166 100  
165 101.4 79.0 118.6  
167 12.6 10.9 16.3

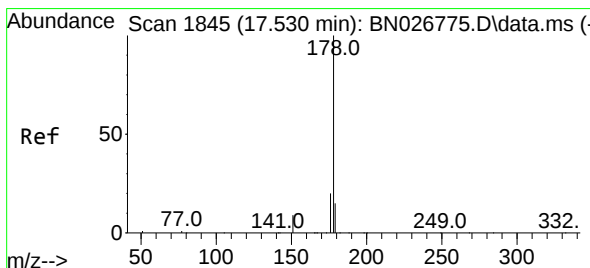
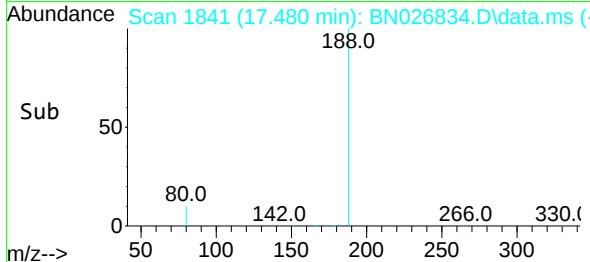
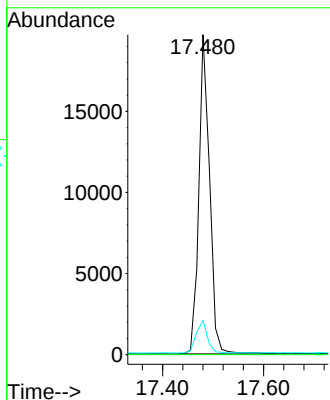
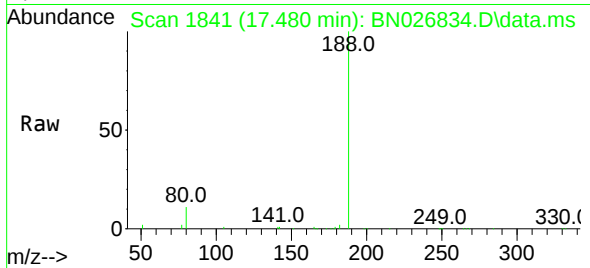




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.480 min Scan# 1841  
Delta R.T. -0.012 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

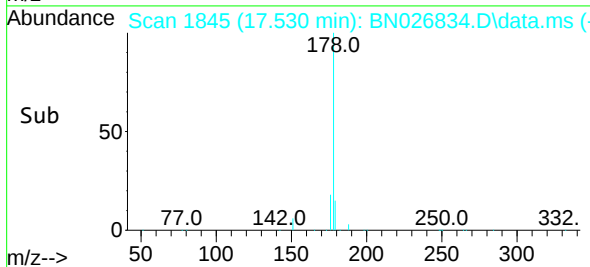
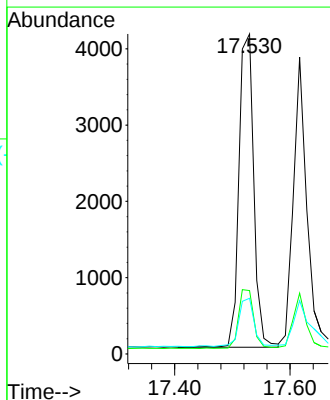
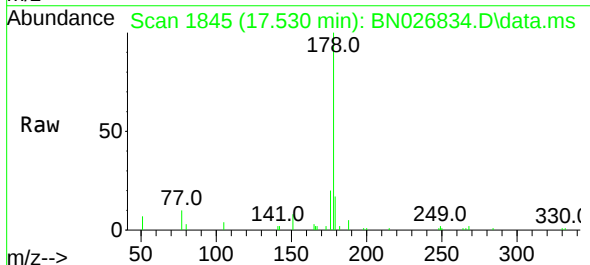
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20230803

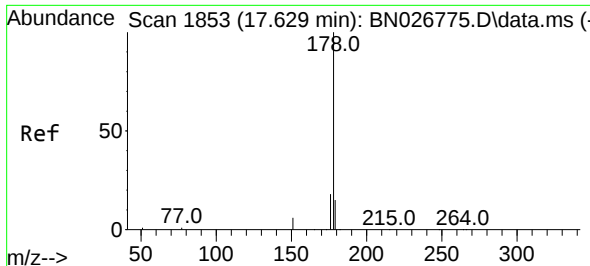
Tgt Ion:188 Resp: 29160  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.7 8.0 12.0



#25  
Phenanthrene  
Concen: 0.082 ng  
RT: 17.530 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:178 Resp: 7259  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 16.1 12.2 18.2

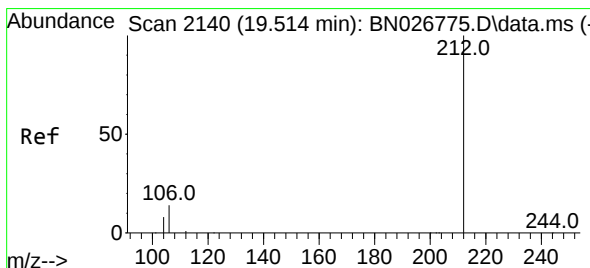
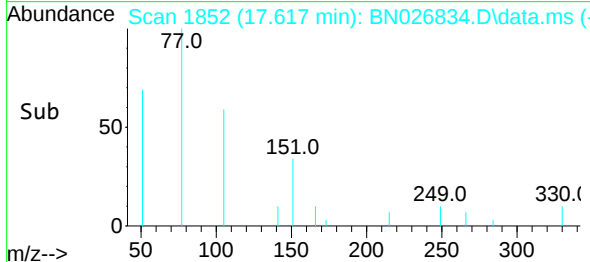
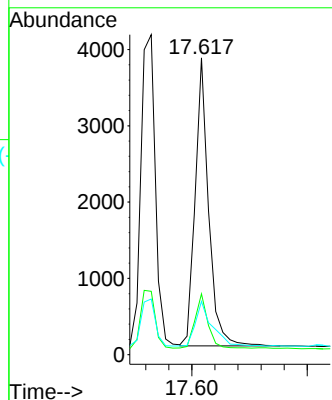
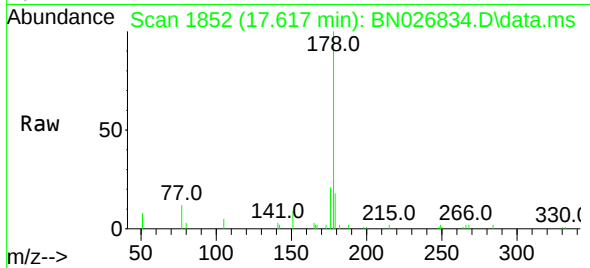




#26  
 Anthracene  
 Concen: 0.077 ng  
 RT: 17.617 min Scan# 1852  
 Delta R.T. -0.012 min  
 Lab File: BN026834.D  
 Acq: 07 Aug 2023 17:07

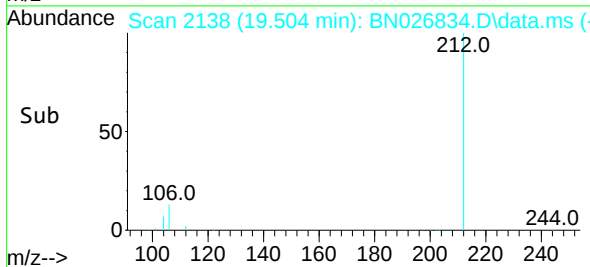
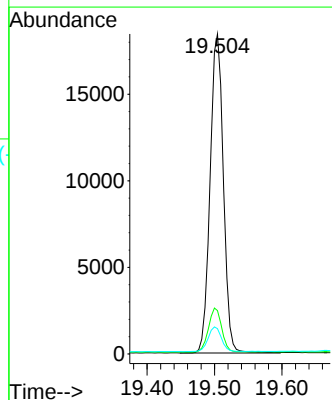
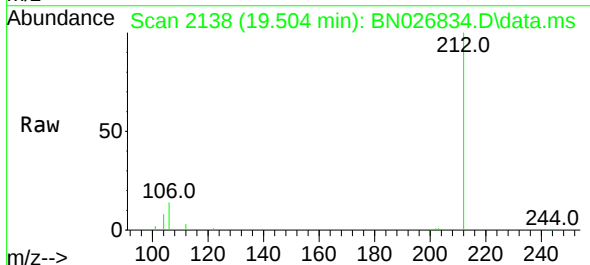
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP-100-20230803

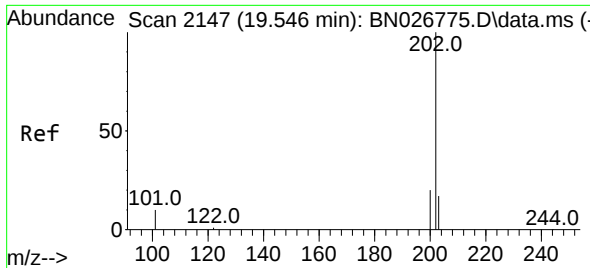
Tgt Ion:178 Resp: 6121  
 Ion Ratio Lower Upper  
 178 100  
 176 17.8 14.9 22.3  
 179 19.0 12.2 18.2#



#27  
 Fluoranthene-d10  
 Concen: 0.359 ng  
 RT: 19.504 min Scan# 2138  
 Delta R.T. -0.009 min  
 Lab File: BN026834.D  
 Acq: 07 Aug 2023 17:07

Tgt Ion:212 Resp: 25149  
 Ion Ratio Lower Upper  
 212 100  
 106 13.8 11.7 17.5  
 104 7.8 6.4 9.6

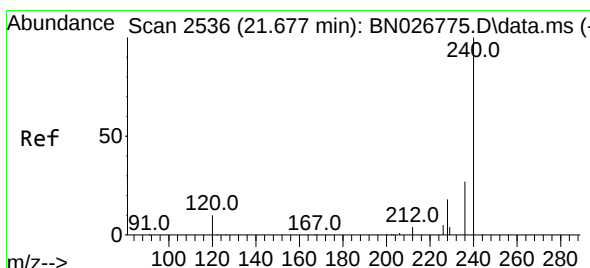
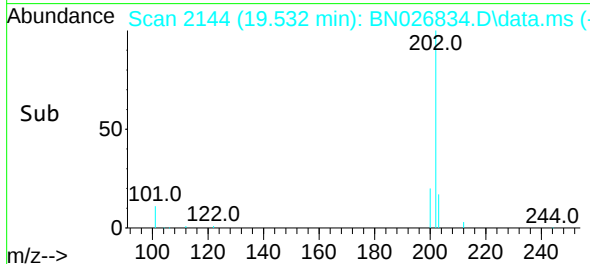
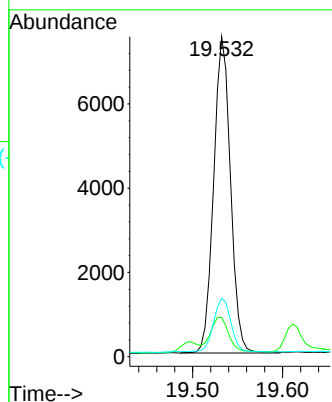
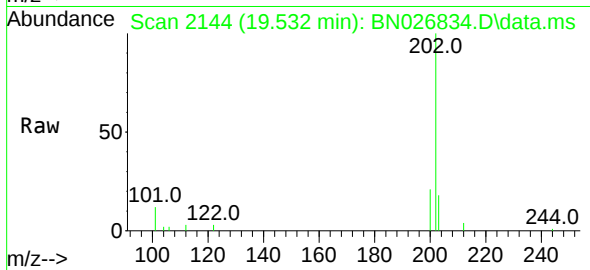




#28  
Fluoranthene  
Concen: 0.099 ng  
RT: 19.532 min Scan# 2144  
Delta R.T. -0.014 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

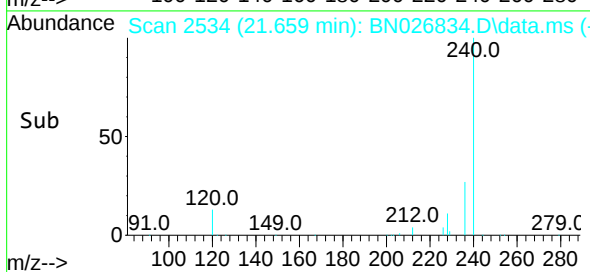
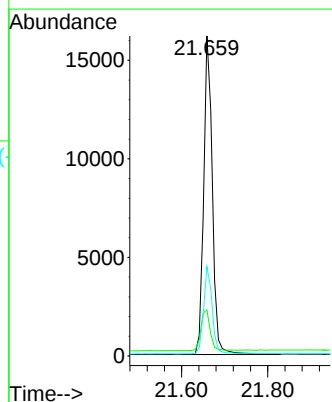
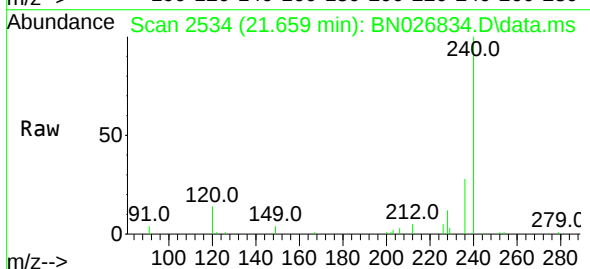
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20230803

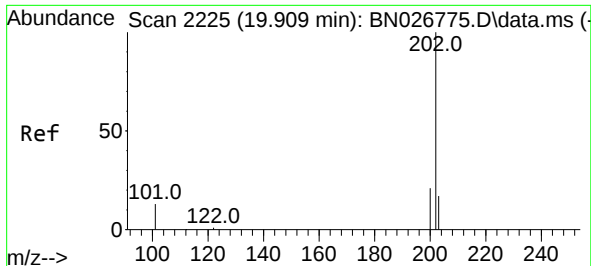
Tgt Ion:202 Resp: 9755  
Ion Ratio Lower Upper  
202 100  
101 11.9 9.2 13.8  
203 17.5 13.7 20.5



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.659 min Scan# 2534  
Delta R.T. -0.018 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:240 Resp: 22671  
Ion Ratio Lower Upper  
240 100  
120 14.4 9.2 13.8#  
236 28.0 21.9 32.9

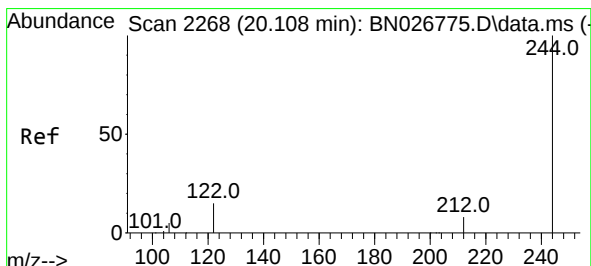
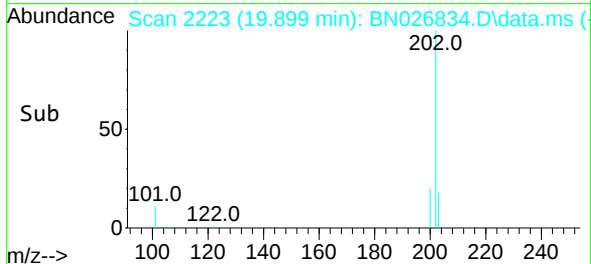
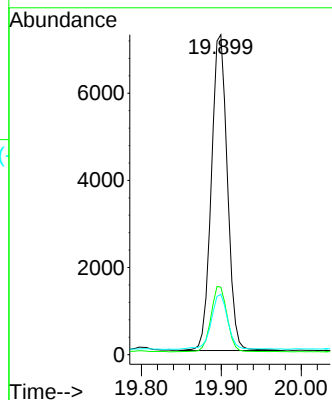
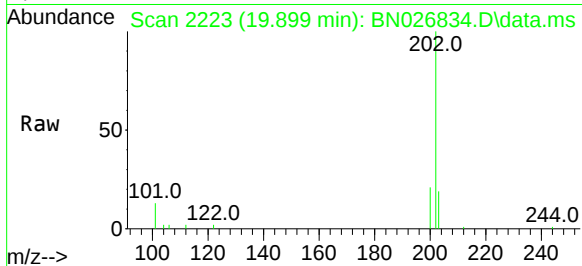




#30  
Pyrene  
Concen: 0.103 ng  
RT: 19.899 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

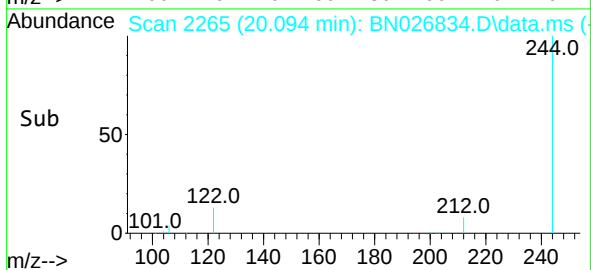
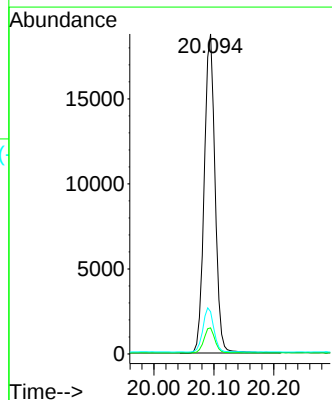
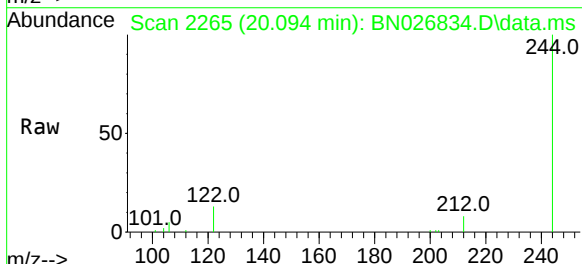
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20230803

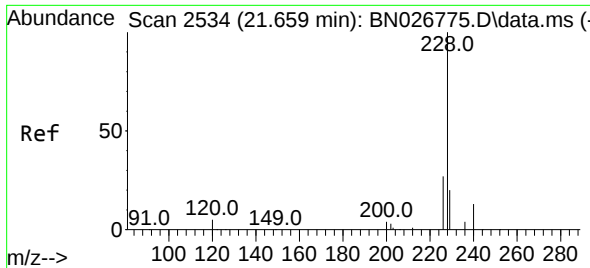
Tgt Ion:202 Resp: 10065  
Ion Ratio Lower Upper  
202 100  
200 20.8 16.8 25.2  
203 18.1 14.2 21.2



#31  
Terphenyl-d14  
Concen: 0.498 ng  
RT: 20.094 min Scan# 2265  
Delta R.T. -0.014 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:244 Resp: 23540  
Ion Ratio Lower Upper  
244 100  
212 8.1 7.0 10.4  
122 13.2 12.3 18.5

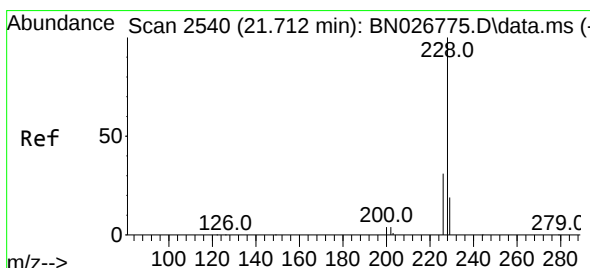
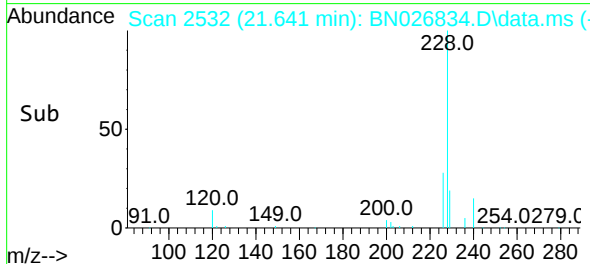
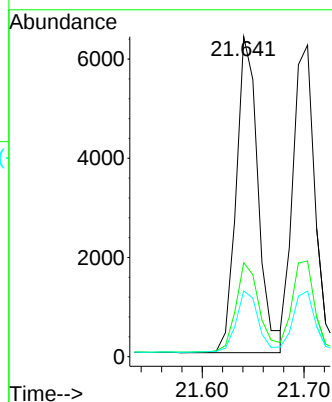
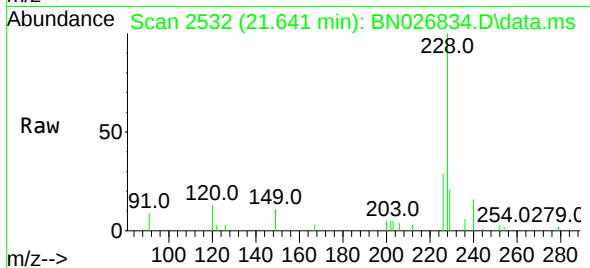




#32  
Benzo(a)anthracene  
Concen: 0.122 ng  
RT: 21.641 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

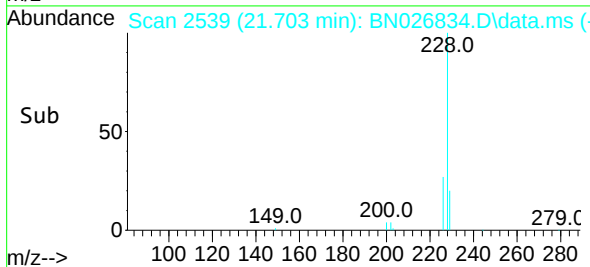
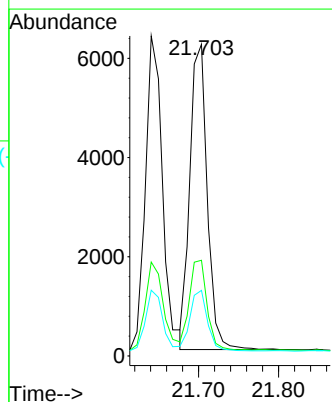
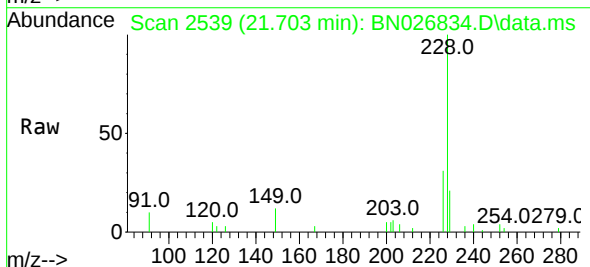
Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20230803

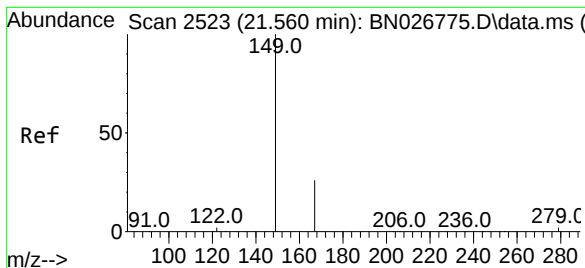
Tgt Ion:228 Resp: 9511  
Ion Ratio Lower Upper  
228 100  
226 29.4 21.9 32.9  
229 20.6 15.8 23.8



#33  
Chrysene  
Concen: 0.108 ng  
RT: 21.703 min Scan# 2539  
Delta R.T. -0.009 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:228 Resp: 9327  
Ion Ratio Lower Upper  
228 100  
226 30.7 24.6 36.8  
229 21.1 15.4 23.2

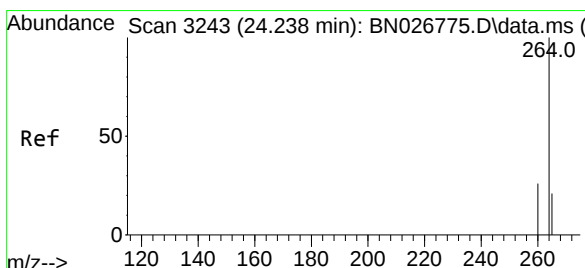
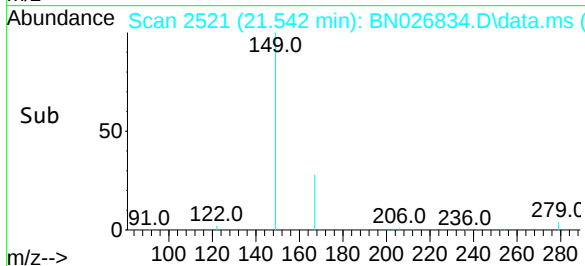
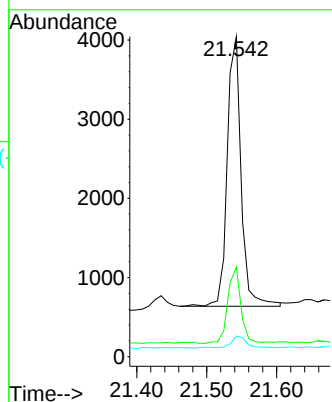
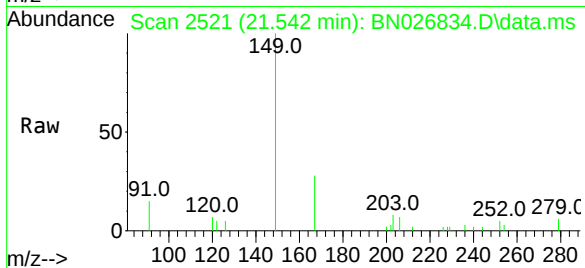




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.182 ng  
 RT: 21.542 min Scan# 2151  
 Delta R.T. -0.018 min  
 Lab File: BN026834.D  
 Acq: 07 Aug 2023 17:07

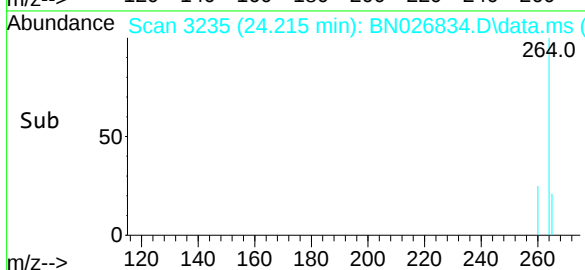
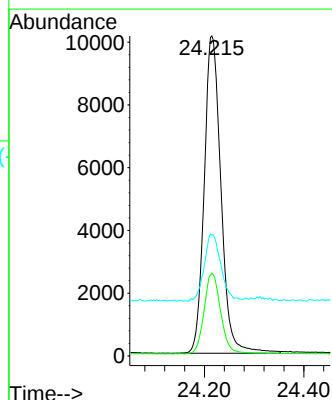
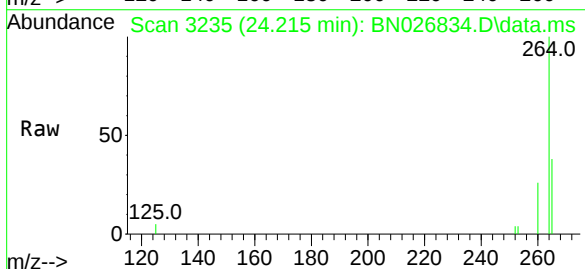
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP-100-20230803

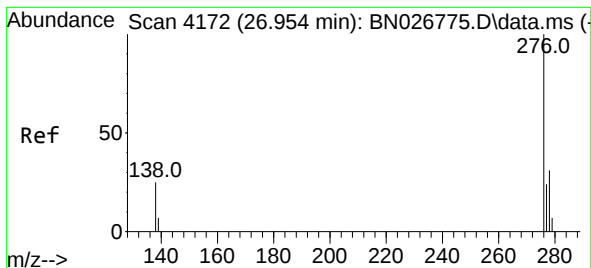
Tgt Ion:149 Resp: 4700  
 Ion Ratio Lower Upper  
 149 100  
 167 26.4 20.8 31.2  
 279 5.2 2.4 3.6#



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.215 min Scan# 3235  
 Delta R.T. -0.023 min  
 Lab File: BN026834.D  
 Acq: 07 Aug 2023 17:07

Tgt Ion:264 Resp: 23749  
 Ion Ratio Lower Upper  
 264 100  
 260 25.9 21.0 31.6  
 265 37.8 22.6 33.8#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.109 ng

RT: 26.916 min Scan# 41

Delta R.T. -0.038 min

Lab File: BN026834.D

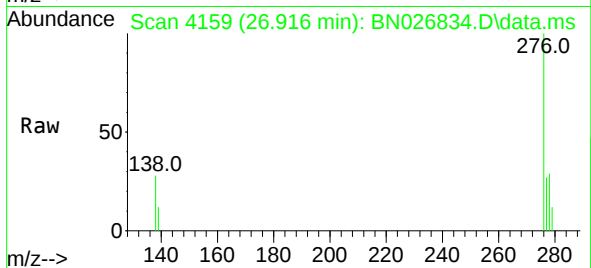
Acq: 07 Aug 2023 17:07

Instrument :

BNA\_N

ClientSampleId :

SP-100-20230803



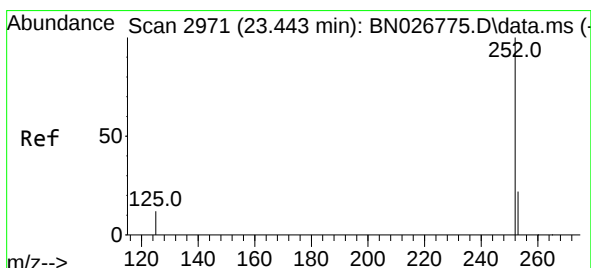
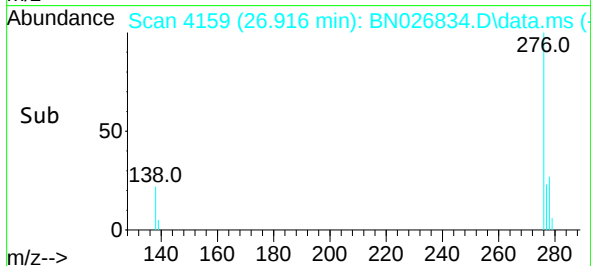
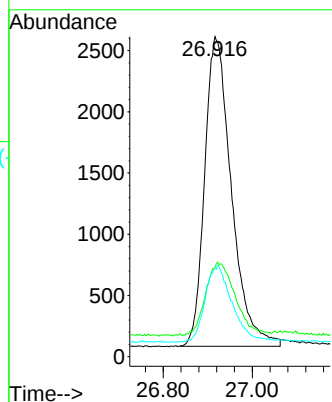
Tgt Ion:276 Resp: 10554

Ion Ratio Lower Upper

276 100

138 25.9 22.8 34.2

277 24.7 19.9 29.9



#37

Benzo(b)fluoranthene

Concen: 0.108 ng

RT: 23.425 min Scan# 2965

Delta R.T. -0.018 min

Lab File: BN026834.D

Acq: 07 Aug 2023 17:07

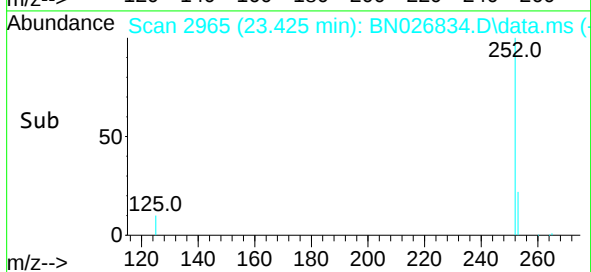
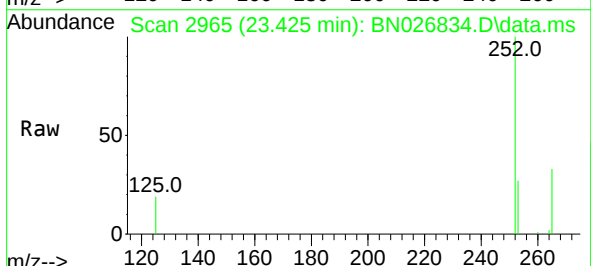
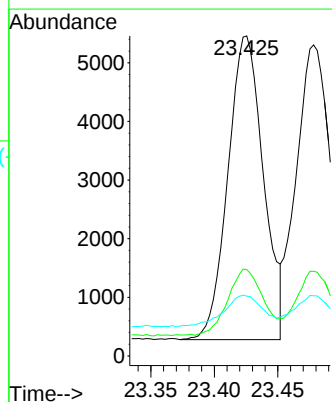
Tgt Ion:252 Resp: 10075

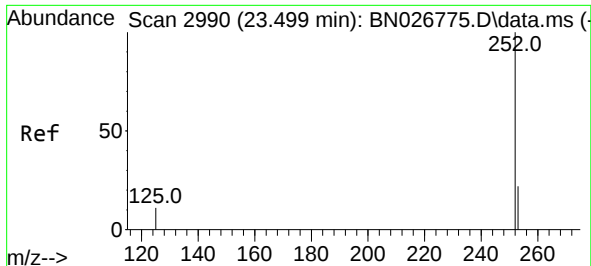
Ion Ratio Lower Upper

252 100

253 27.0 17.8 26.8#

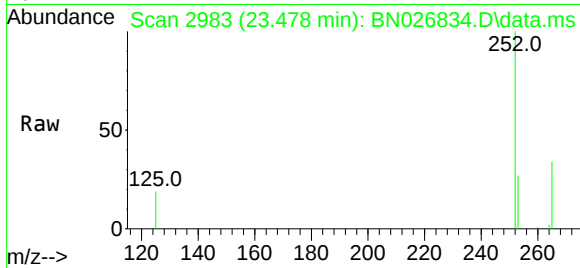
125 18.7 10.8 16.2#



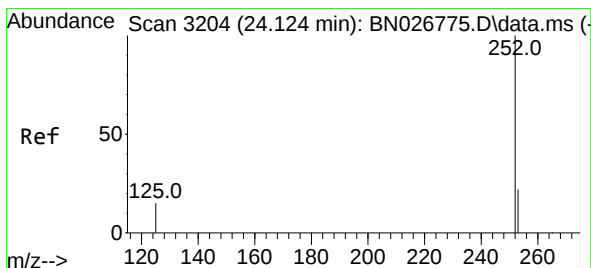
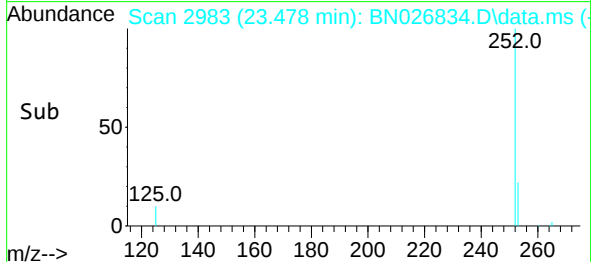
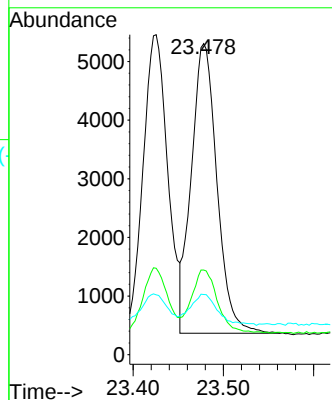


#38  
Benzo(k)fluoranthene  
Concen: 0.102 ng  
RT: 23.478 min Scan# 2990  
Delta R.T. -0.021 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20230803

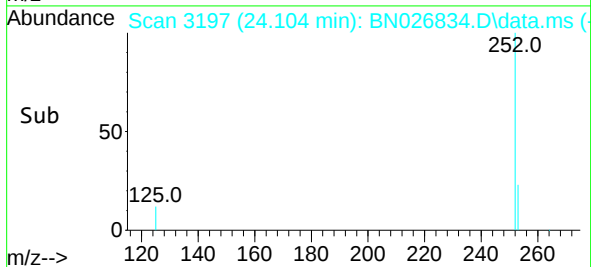
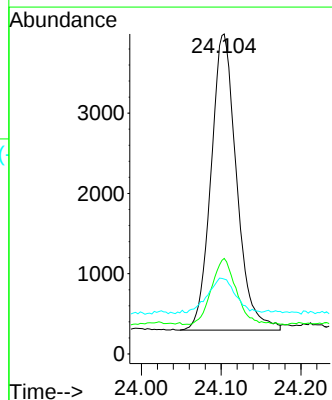
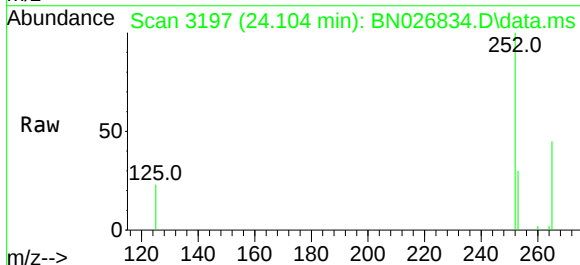


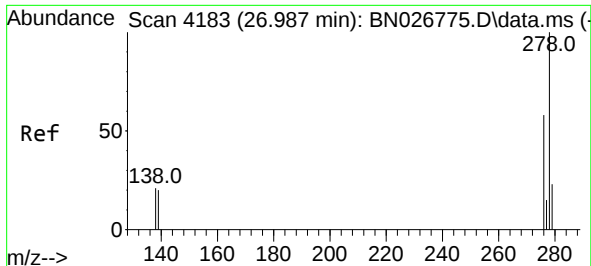
Tgt Ion:252 Resp: 9745  
Ion Ratio Lower Upper  
252 100  
253 27.2 18.0 27.0#  
125 19.3 9.4 14.2#



#39  
Benzo(a)pyrene  
Concen: 0.096 ng  
RT: 24.104 min Scan# 3197  
Delta R.T. -0.021 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:252 Resp: 8218  
Ion Ratio Lower Upper  
252 100  
253 29.8 18.5 27.7#  
125 23.4 12.7 19.1#

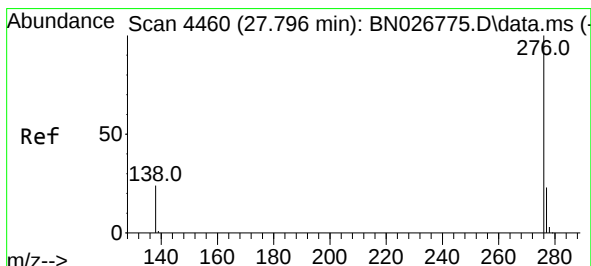
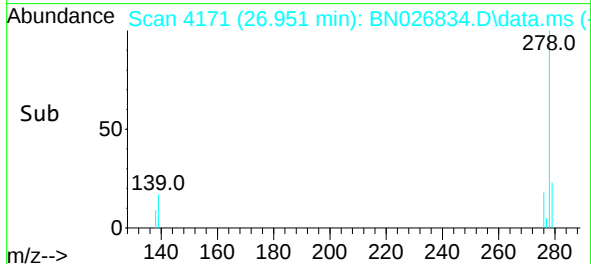
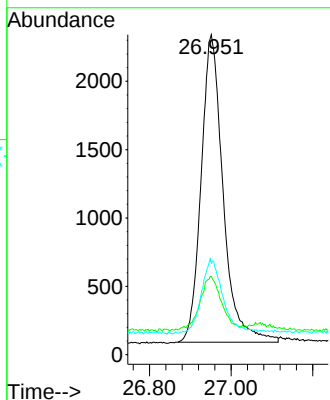
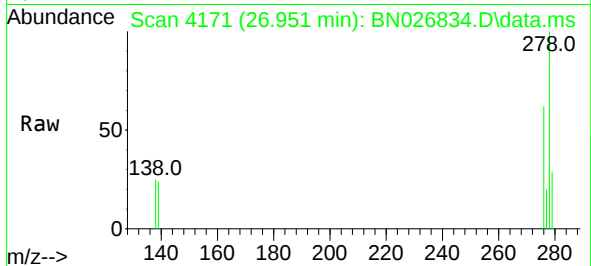




#40  
Dibenzo(a,h)anthracene  
Concen: 0.112 ng  
RT: 26.951 min Scan# 41  
Delta R.T. -0.035 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Instrument :  
BNA\_N  
ClientSampleId :  
SP-100-20230803

Tgt Ion:278 Resp: 8434  
Ion Ratio Lower Upper  
278 100  
139 24.5 16.8 25.2  
279 28.6 19.5 29.3



#41  
Benzo(g,h,i)perylene  
Concen: 0.094 ng  
RT: 27.758 min Scan# 4447  
Delta R.T. -0.038 min  
Lab File: BN026834.D  
Acq: 07 Aug 2023 17:07

Tgt Ion:276 Resp: 8336  
Ion Ratio Lower Upper  
276 100  
277 28.3 19.1 28.7  
138 28.2 19.8 29.6

