

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
 Data File : BN036936.D  
 Acq On : 29 Apr 2025 13:05  
 Operator : RC/JU  
 Sample : Q1870-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 38072-010925

Quant Time: Apr 29 13:29:18 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 28 15:35:03 2025  
 Response via : Initial Calibration

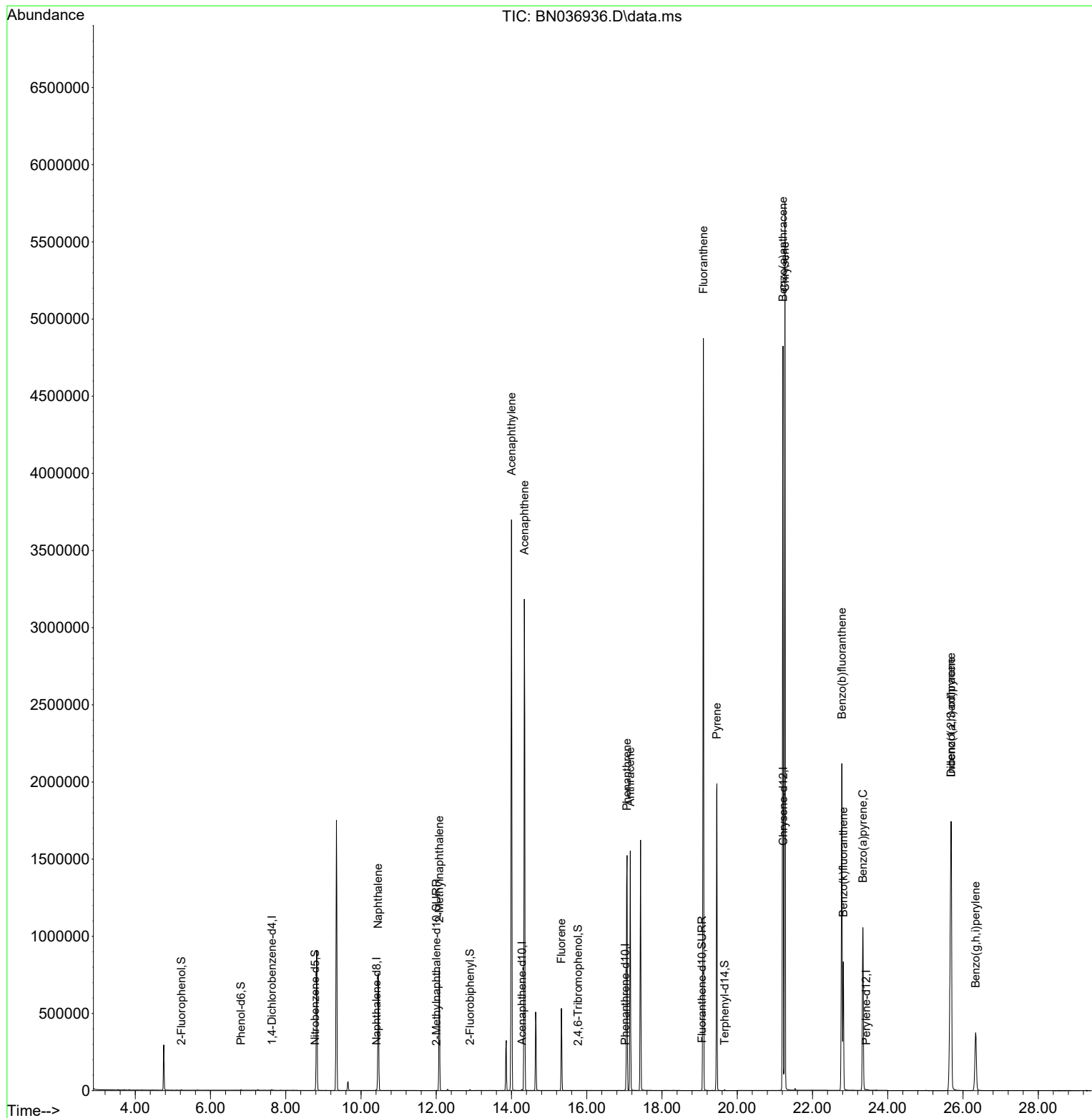
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.633  | 152  | 1925     | 0.400   | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.415 | 136  | 5445     | 0.400   | ng    | 0.00     |
| 13) Acenaphthene-d10        | 14.277 | 164  | 3190     | 0.400   | ng    | 0.00     |
| 19) Phenanthrene-d10        | 17.021 | 188  | 6294     | 0.400   | ng    | 0.00     |
| 29) Chrysene-d12            | 21.225 | 240  | 6093     | 0.400   | ng    | 0.00     |
| 35) Perylene-d12            | 23.427 | 264  | 4542     | 0.400   | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 4) 2-Fluorophenol           | 5.228  | 112  | 1734     | 0.352   | ng    | 0.00     |
| 5) Phenol-d6                | 6.810  | 99   | 2400     | 0.396   | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.782  | 82   | 2370     | 0.416   | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.006 | 152  | 3196     | 0.420   | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.768 | 330  | 303      | 0.213   | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.899 | 172  | 6365     | 0.413   | ng    | 0.00     |
| 27) Fluoranthene-d10        | 19.063 | 212  | 7536     | 0.462   | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.663 | 244  | 5329     | 0.371   | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 9) Naphthalene              | 10.458 | 128  | 916595   | 57.839  | ng    | 98       |
| 12) 2-Methylnaphthalene     | 12.082 | 142  | 515219   | 50.291  | ng    | 99       |
| 16) Acenaphthylene          | 13.999 | 152  | 3723039  | 238.798 | ng    | 99       |
| 17) Acenaphthene            | 14.342 | 154  | 1522189  | 148.602 | ng    | 95       |
| 18) Fluorene                | 15.325 | 166  | 299838   | 22.381  | ng    | 99       |
| 25) Phenanthrene            | 17.071 | 178  | 1651033  | 79.476  | ng    | 100      |
| 26) Anthracene              | 17.158 | 178  | 1384185  | 73.661  | ng    | 100      |
| 28) Fluoranthene            | 19.101 | 202  | 4394407  | 188.748 | ng    | 98       |
| 30) Pyrene                  | 19.458 | 202  | 1714365  | 58.420  | ng    | 98       |
| 32) Benzo(a)anthracene      | 21.216 | 228  | 4066087  | 181.199 | ng    | 99       |
| 33) Chrysene                | 21.269 | 228  | 4265016  | 176.238 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene  | 25.684 | 276  | 2815525  | 151.786 | ng    | 95       |
| 37) Benzo(b)fluoranthene    | 22.781 | 252  | 2651471  | 138.833 | ng    | # 88     |
| 38) Benzo(k)fluoranthene    | 22.819 | 252  | 864365   | 45.004  | ng    | # 87     |
| 39) Benzo(a)pyrene          | 23.339 | 252  | 1407542  | 89.656  | ng    | # 81     |
| 40) Dibenzo(a,h)anthracene  | 25.684 | 278  | 699662   | 47.928  | ng    | # 88     |
| 41) Benzo(g,h,i)perylene    | 26.336 | 276  | 724777   | 44.737  | ng    | 98       |
| -----                       |        |      |          |         |       |          |

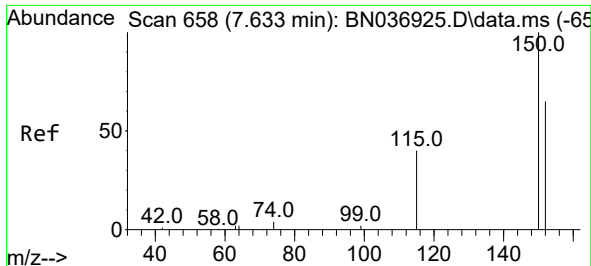
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN042925\  
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Sample : Q1870-01  
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Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

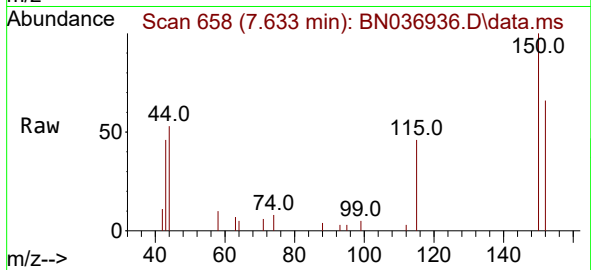
Quant Time: Apr 29 13:29:18 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN042825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 28 15:35:03 2025  
Response via : Initial Calibration



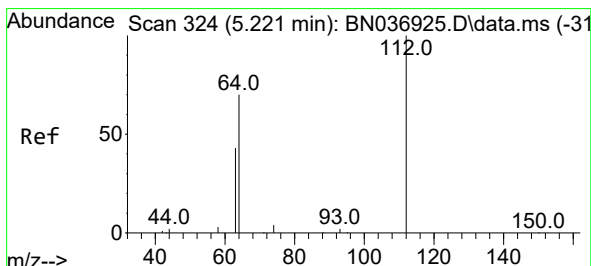
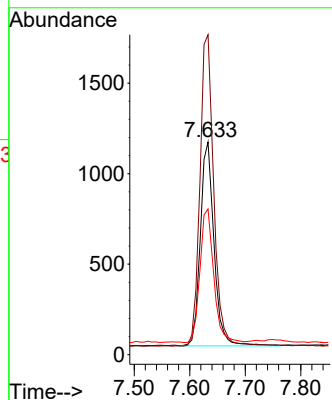
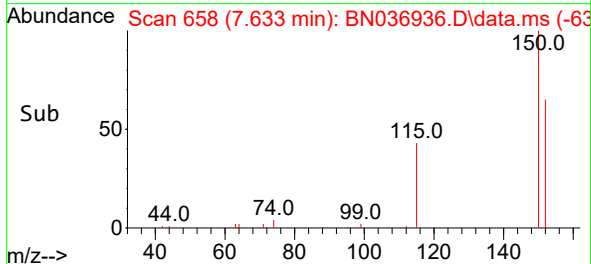


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.633 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN036936.D  
 Acq: 29 Apr 2025 13:05

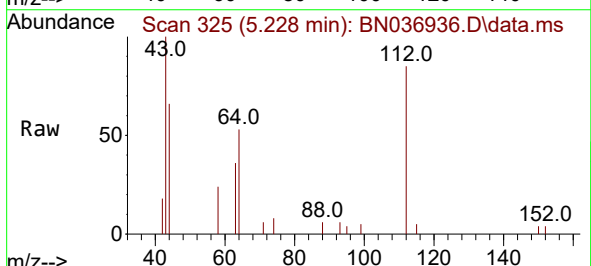
Instrument :  
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 ClientSampleId :  
 38072-010925



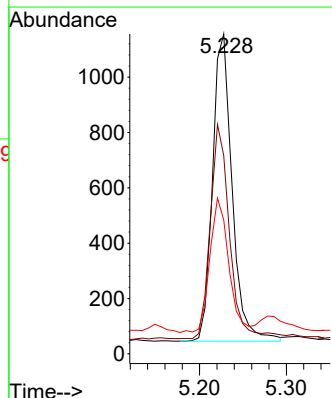
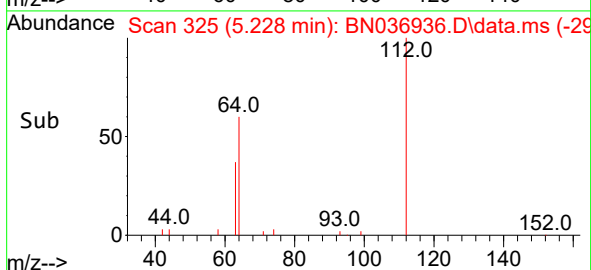
Tgt Ion:152 Resp: 1925  
 Ion Ratio Lower Upper  
 152 100  
 150 150.5 121.1 181.7  
 115 68.5 51.8 77.6

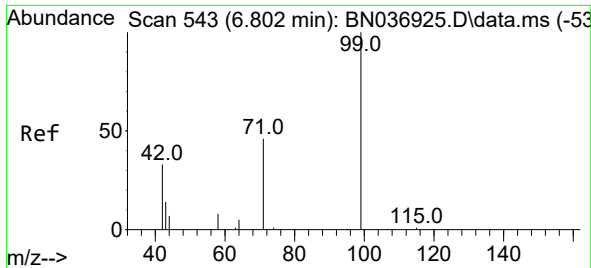


#4  
 2-Fluorophenol  
 Concen: 0.352 ng  
 RT: 5.228 min Scan# 325  
 Delta R.T. 0.007 min  
 Lab File: BN036936.D  
 Acq: 29 Apr 2025 13:05



Tgt Ion:112 Resp: 1734  
 Ion Ratio Lower Upper  
 112 100  
 64 70.9 55.7 83.5  
 63 42.2 33.9 50.9

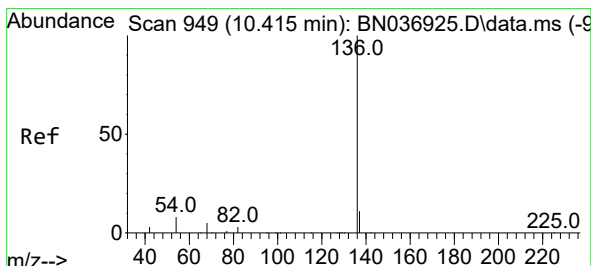
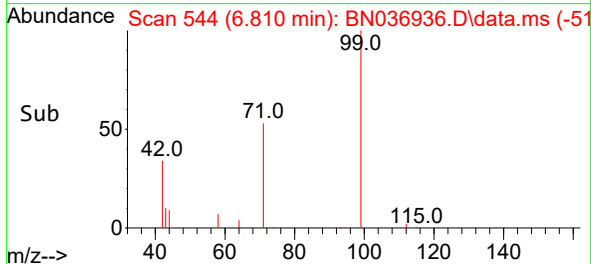
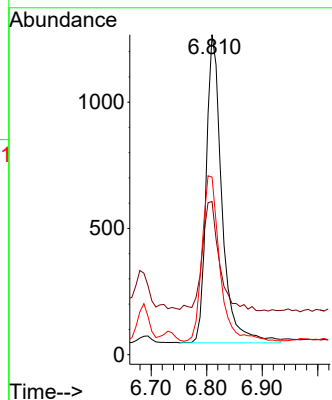
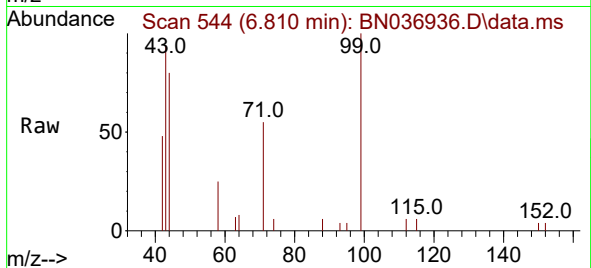




#5  
Phenol-d6  
Concen: 0.396 ng  
RT: 6.810 min Scan# 543  
Delta R.T. 0.007 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

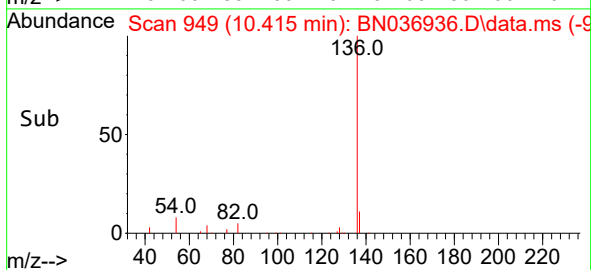
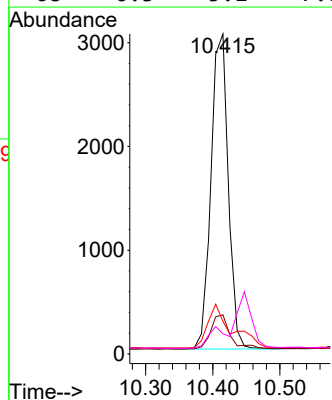
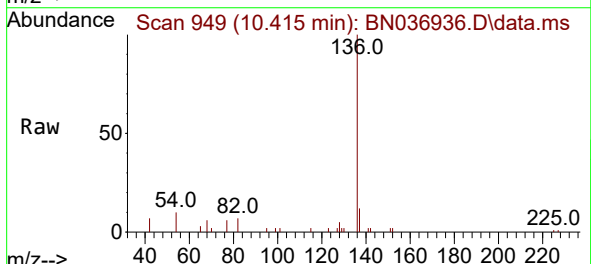
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

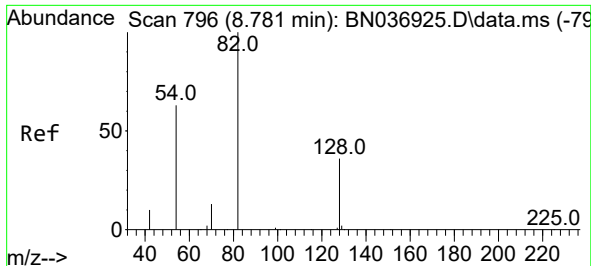
Tgt Ion: 99 Resp: 2400  
Ion Ratio Lower Upper  
99 100  
42 38.9 29.6 44.4  
71 61.0 36.0 54.0#



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.415 min Scan# 949  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion: 136 Resp: 5445  
Ion Ratio Lower Upper  
136 100  
137 12.2 9.7 14.5  
54 10.2 8.0 12.0  
68 6.3 5.1 7.7

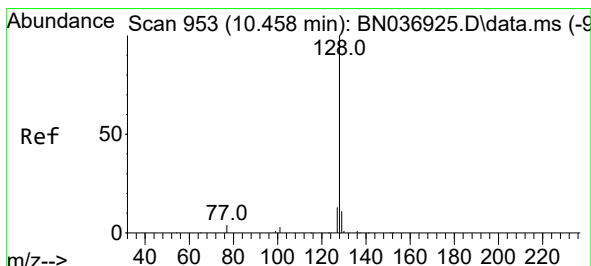
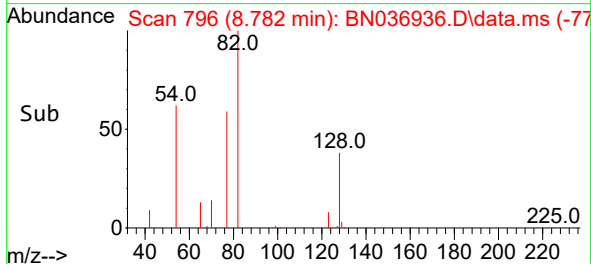
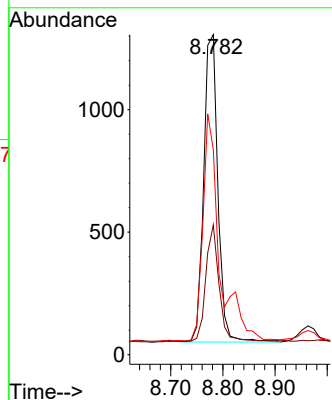
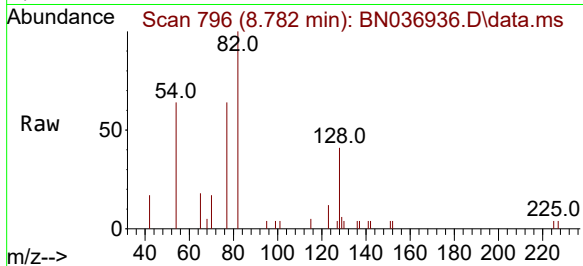




#8  
Nitrobenzene-d5  
Concen: 0.416 ng  
RT: 8.782 min Scan# 796  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

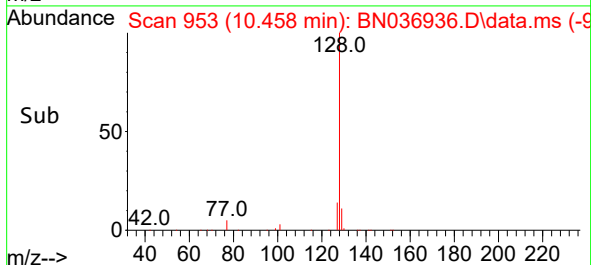
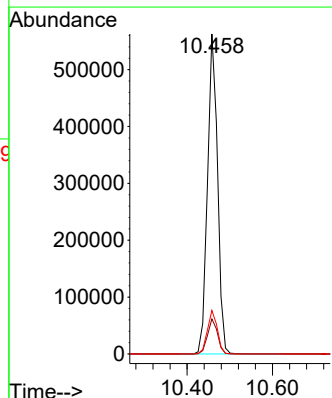
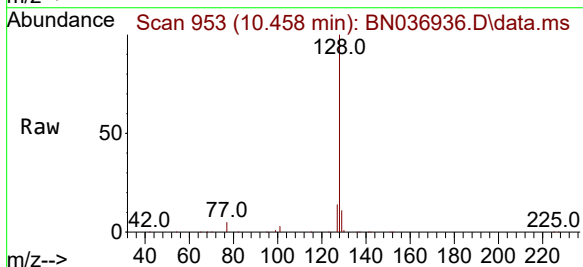
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38072-010925

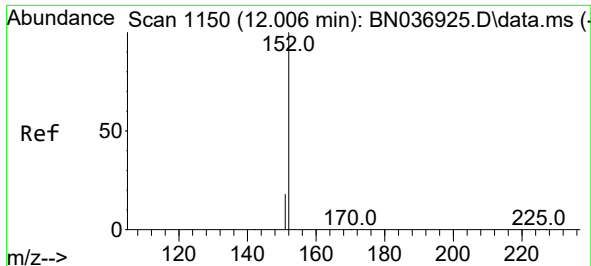
Tgt Ion: 82 Resp: 2370  
Ion Ratio Lower Upper  
82 100  
128 40.6 30.7 46.1  
54 64.0 52.1 78.1



#9  
Naphthalene  
Concen: 57.839 ng  
RT: 10.458 min Scan# 953  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion: 128 Resp: 916595  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.8 14.6  
127 13.6 11.4 17.2

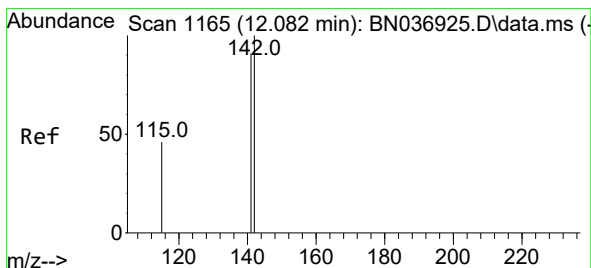
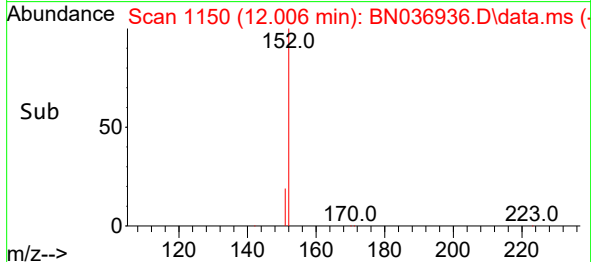
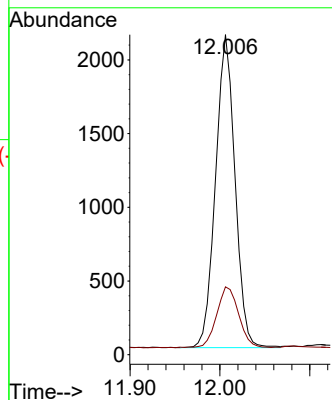
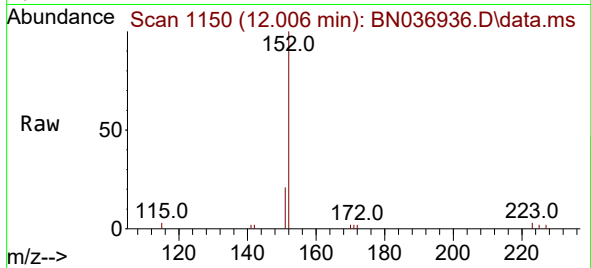




#11  
2-Methylnaphthalene-d10  
Concen: 0.420 ng  
RT: 12.006 min Scan# 1150  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

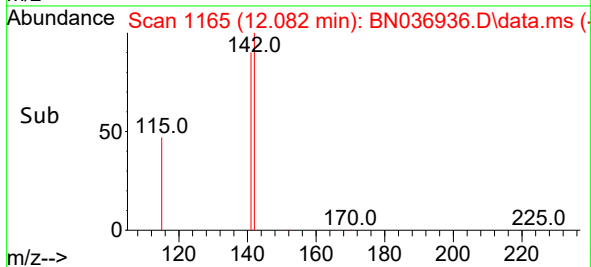
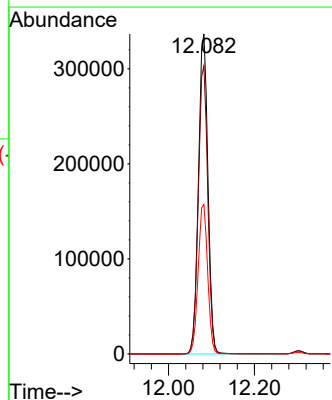
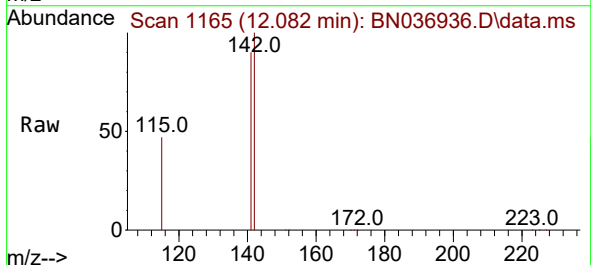
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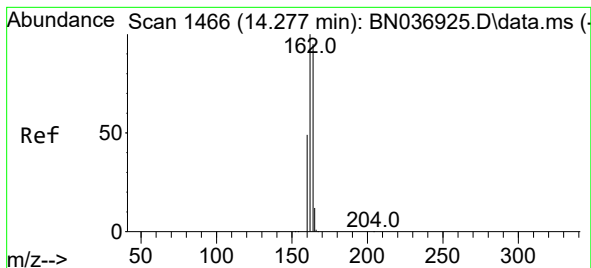
Tgt Ion:152 Resp: 3196  
Ion Ratio Lower Upper  
152 100  
151 21.9 16.9 25.3



#12  
2-Methylnaphthalene  
Concen: 50.291 ng  
RT: 12.082 min Scan# 1165  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:142 Resp: 515219  
Ion Ratio Lower Upper  
142 100  
141 90.0 72.8 109.2  
115 46.7 38.2 57.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.277 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

Instrument :

BNA\_N

ClientSampleId :

38072-010925

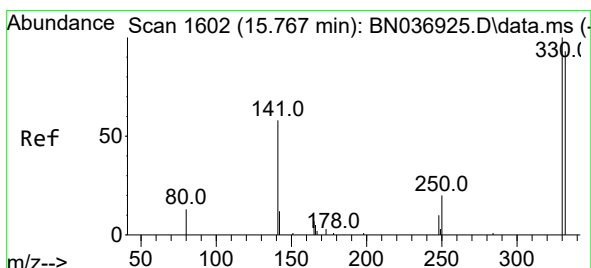
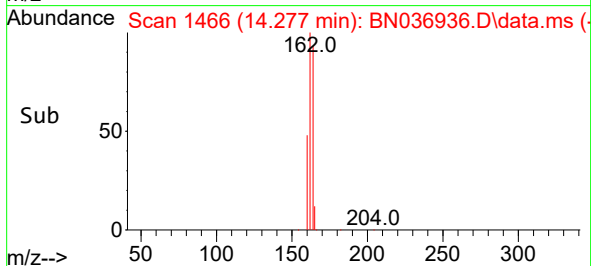
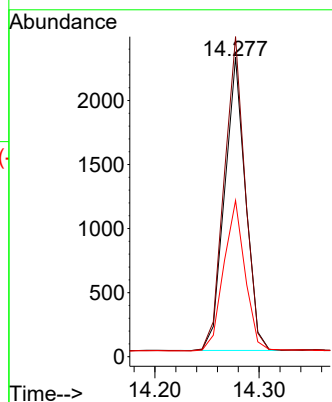
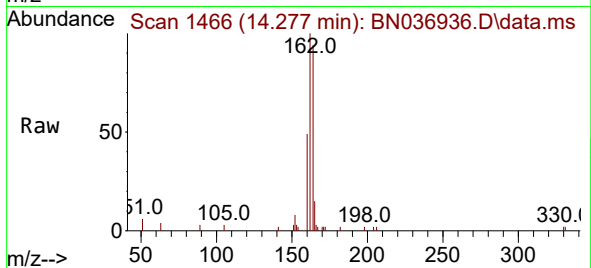
Tgt Ion:164 Resp: 3190

Ion Ratio Lower Upper

164 100

162 106.8 83.8 125.8

160 52.1 42.0 63.0



#14

2,4,6-Tribromophenol

Concen: 0.213 ng

RT: 15.768 min Scan# 1602

Delta R.T. 0.000 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

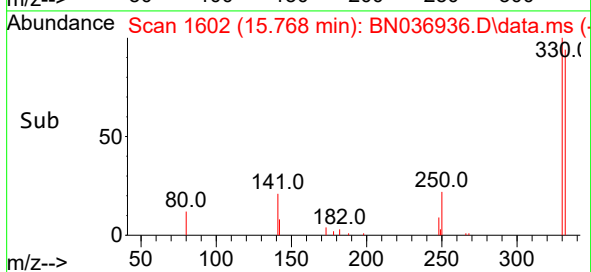
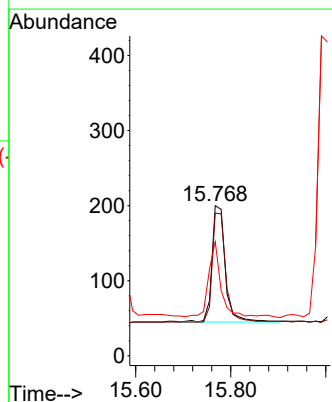
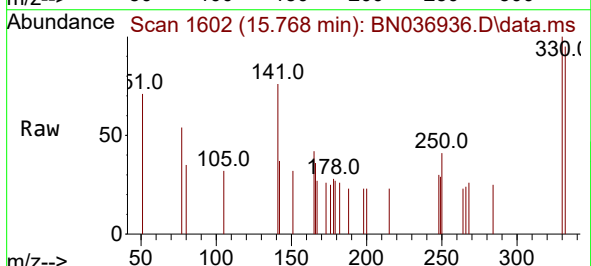
Tgt Ion:330 Resp: 303

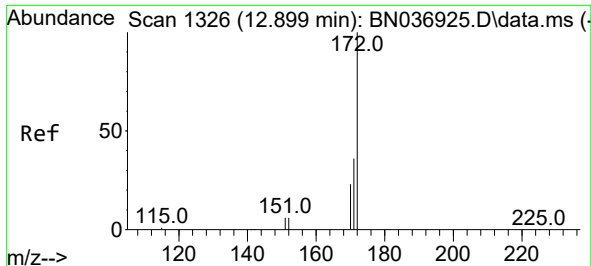
Ion Ratio Lower Upper

330 100

332 93.1 76.3 114.5

141 57.8 45.4 68.2

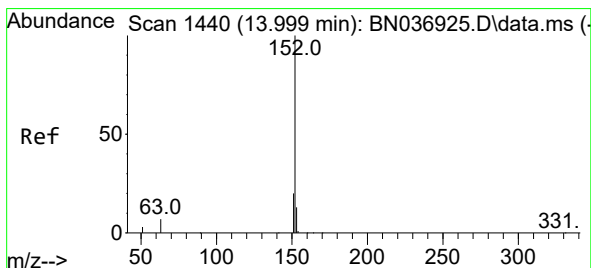
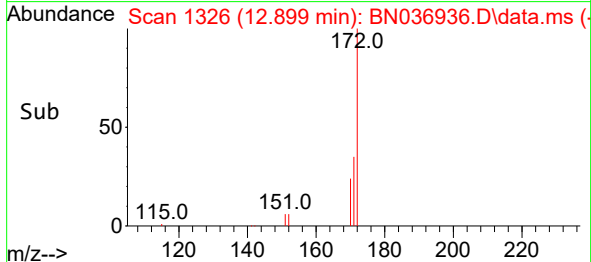
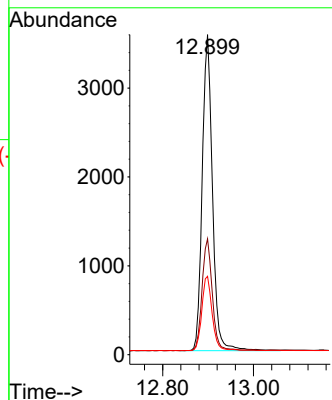
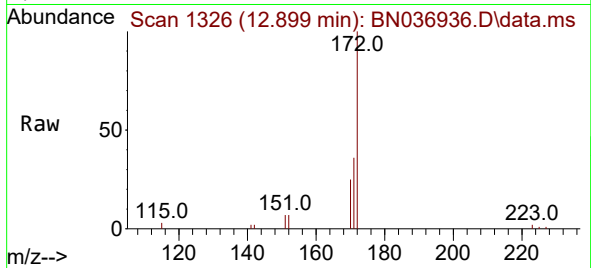




#15  
2-Fluorobiphenyl  
Concen: 0.413 ng  
RT: 12.899 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

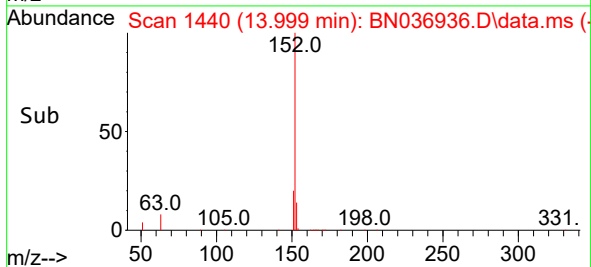
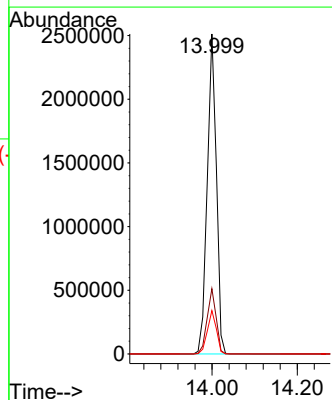
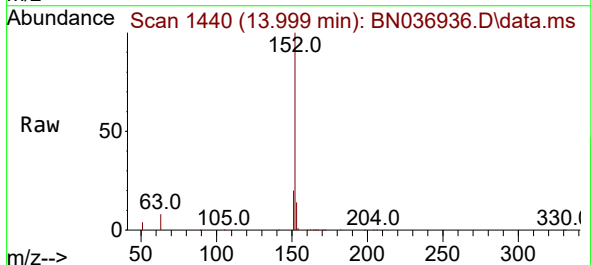
Instrument :  
BNA\_N  
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38072-010925

Tgt Ion:172 Resp: 6365  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.4 44.0  
170 24.5 19.4 29.0

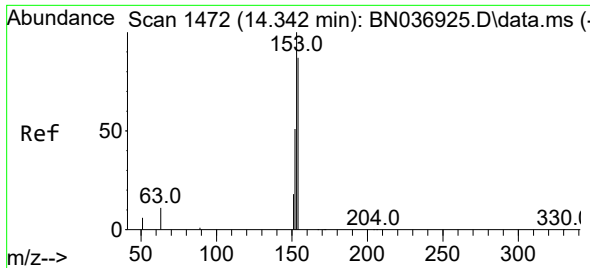


#16  
Acenaphthylene  
Concen: 238.798 ng  
RT: 13.999 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:152 Resp: 3723039  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.0 24.0  
153 13.5 10.2 15.2



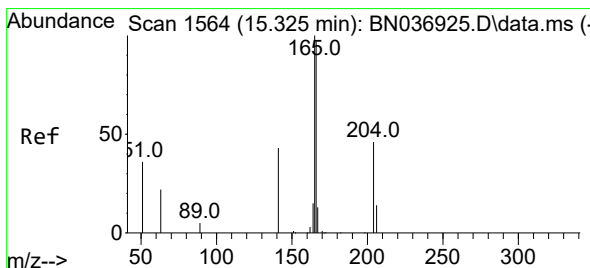
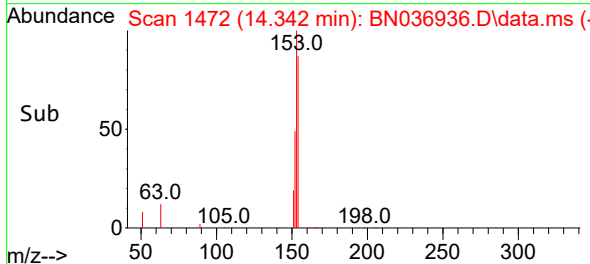
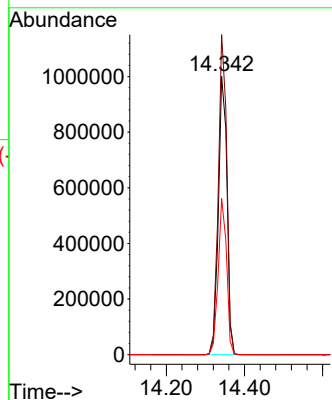
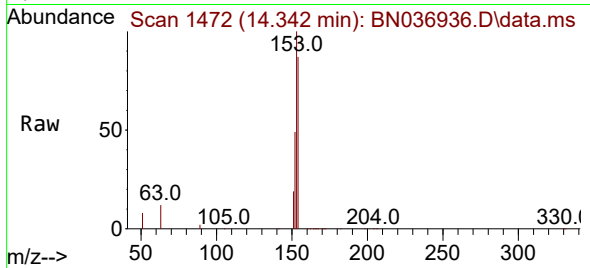




#17  
Acenaphthene  
Concen: 148.602 ng  
RT: 14.342 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

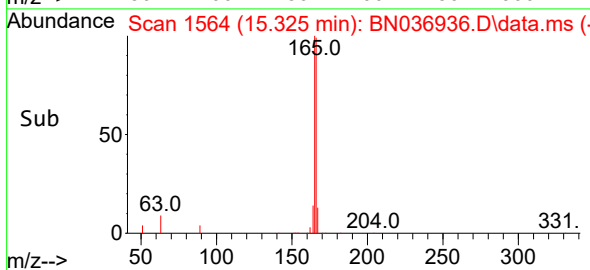
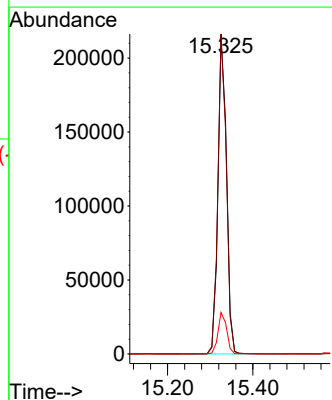
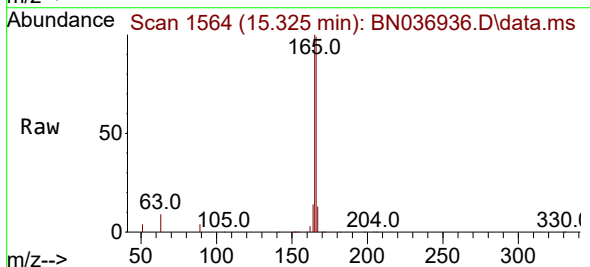
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

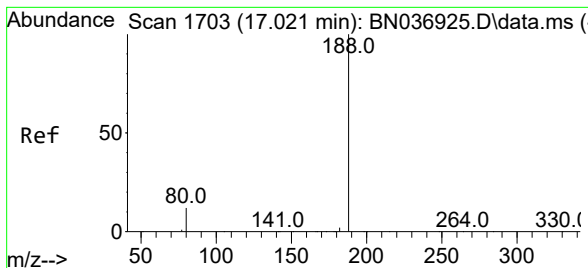
Tgt Ion:154 Resp: 1522189  
Ion Ratio Lower Upper  
154 100  
153 113.7 93.4 140.2  
152 55.1 49.5 74.3



#18  
Fluorene  
Concen: 22.381 ng  
RT: 15.325 min Scan# 1564  
Delta R.T. 0.000 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:166 Resp: 299838  
Ion Ratio Lower Upper  
166 100  
165 99.7 80.8 121.2  
167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

Instrument :

BNA\_N

ClientSampleId :

38072-010925

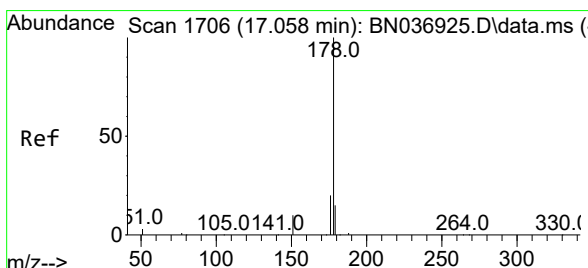
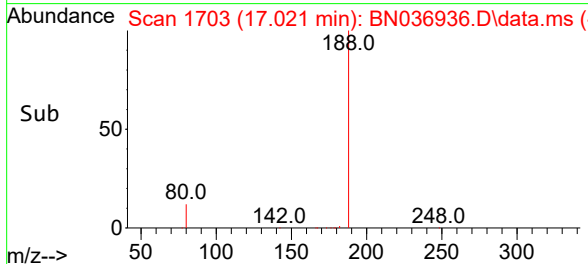
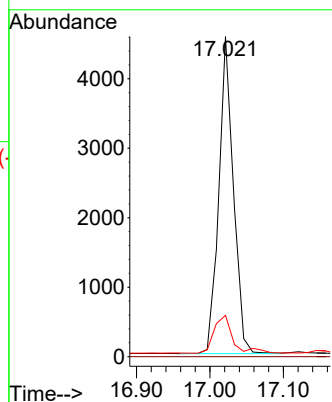
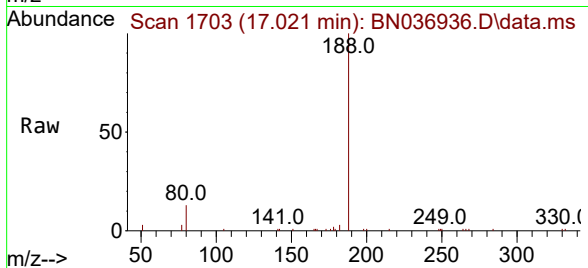
Tgt Ion:188 Resp: 6294

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.9 10.7 16.1



#25

Phenanthrene

Concen: 79.476 ng

RT: 17.071 min Scan# 1707

Delta R.T. 0.012 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

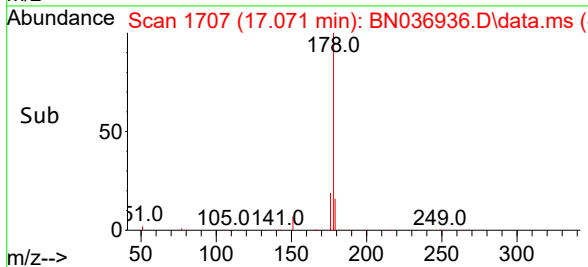
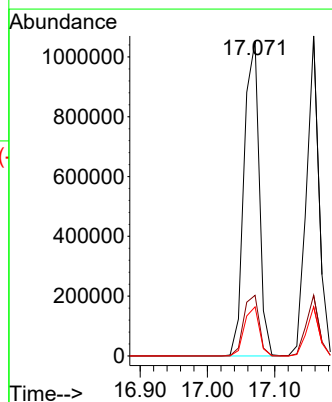
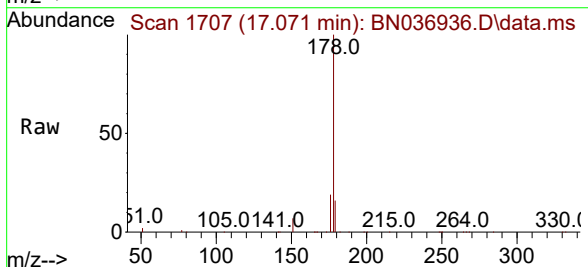
Tgt Ion:178 Resp: 1651033

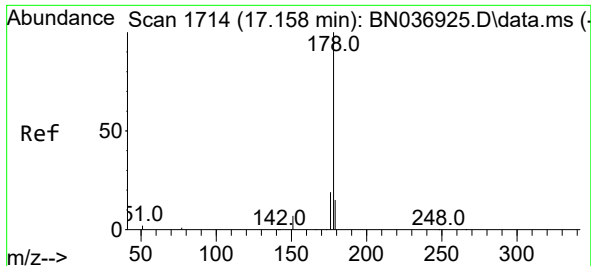
Ion Ratio Lower Upper

178 100

176 19.7 15.7 23.5

179 15.4 12.4 18.6

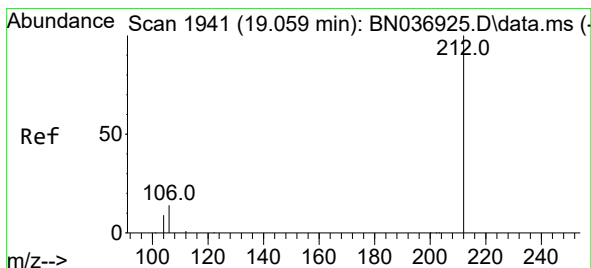
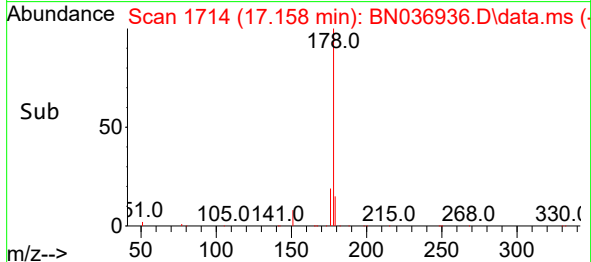
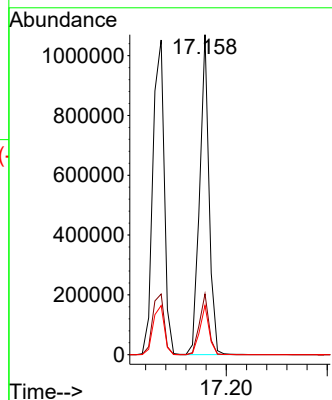
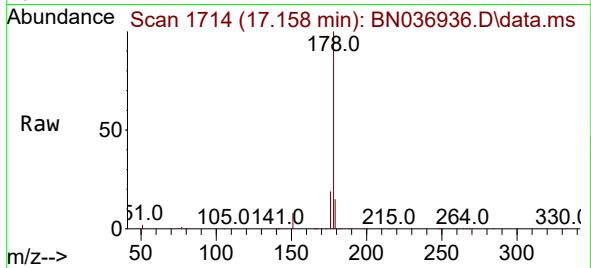




#26  
 Anthracene  
 Concen: 73.661 ng  
 RT: 17.158 min Scan# 1714  
 Delta R.T. 0.000 min  
 Lab File: BN036936.D  
 Acq: 29 Apr 2025 13:05

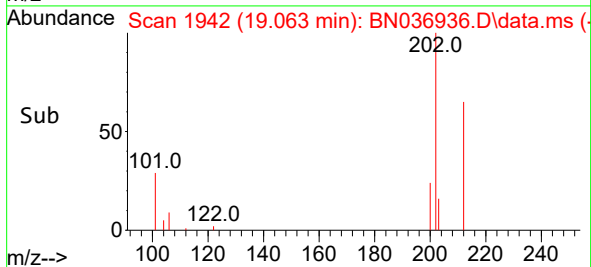
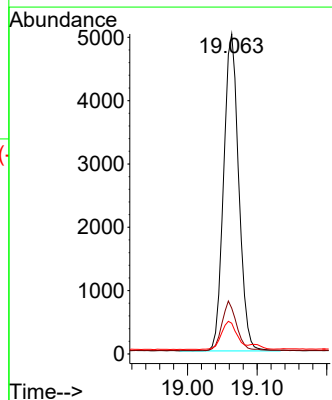
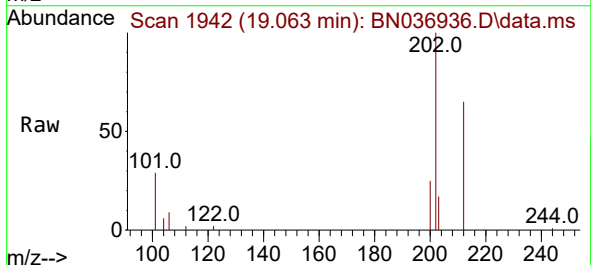
Instrument :  
 BNA\_N  
 ClientSampleId :  
 38072-010925

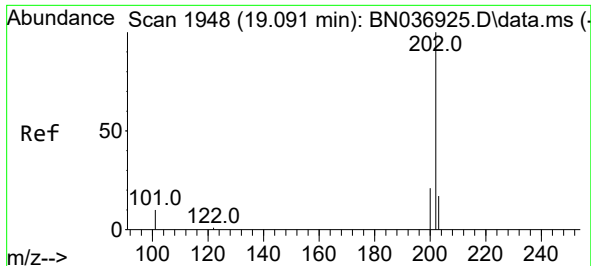
Tgt Ion:178 Resp: 1384185  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 15.3 22.9  
 179 15.3 12.1 18.1



#27  
 Fluoranthene-d10  
 Concen: 0.462 ng  
 RT: 19.063 min Scan# 1942  
 Delta R.T. 0.005 min  
 Lab File: BN036936.D  
 Acq: 29 Apr 2025 13:05

Tgt Ion:212 Resp: 7536  
 Ion Ratio Lower Upper  
 212 100  
 106 15.2 11.6 17.4  
 104 9.2 7.0 10.4

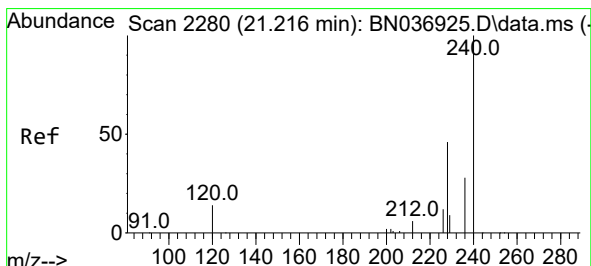
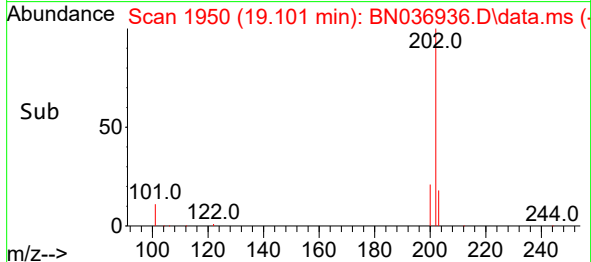
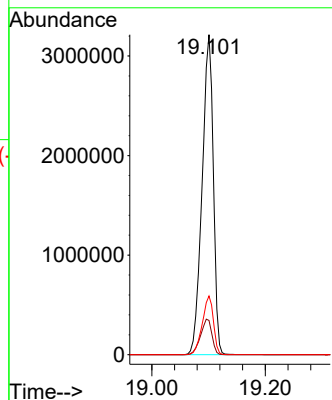
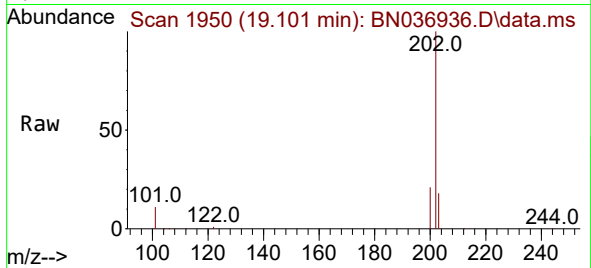




#28  
Fluoranthene  
Concen: 188.748 ng  
RT: 19.101 min Scan# 1948  
Delta R.T. 0.009 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

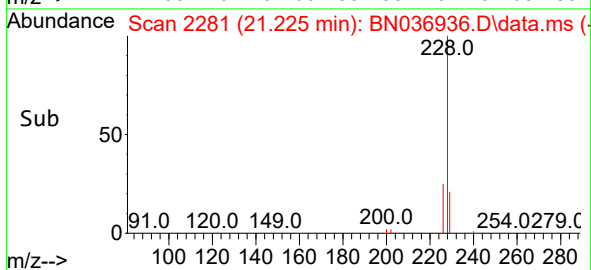
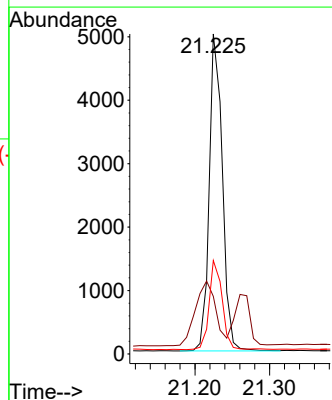
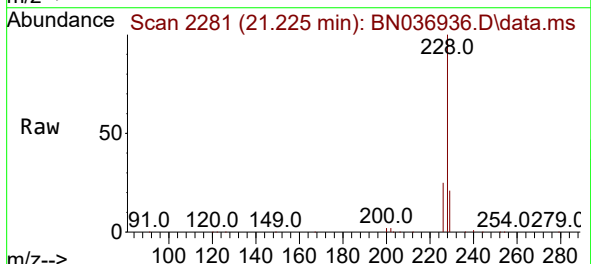
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

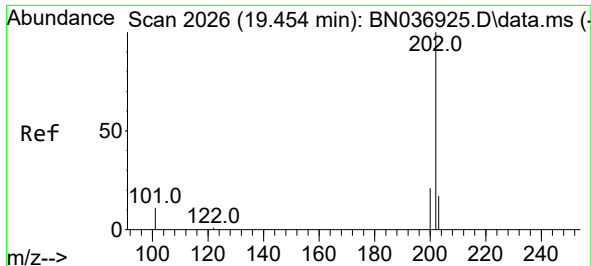
Tgt Ion:202 Resp: 4394407  
Ion Ratio Lower Upper  
202 100  
101 11.3 8.5 12.7  
203 18.2 13.7 20.5



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.225 min Scan# 2281  
Delta R.T. 0.009 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:240 Resp: 6093  
Ion Ratio Lower Upper  
240 100  
120 18.0 14.1 21.1  
236 29.2 23.8 35.8

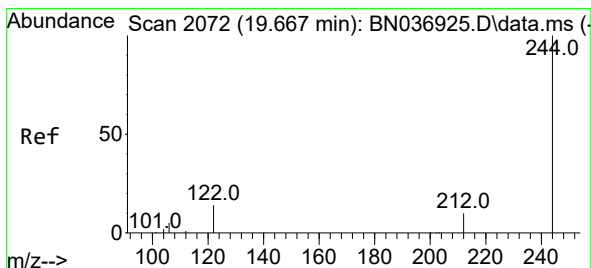
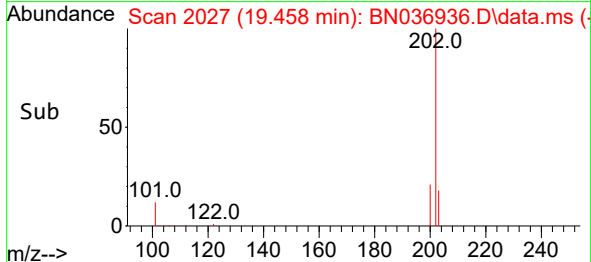
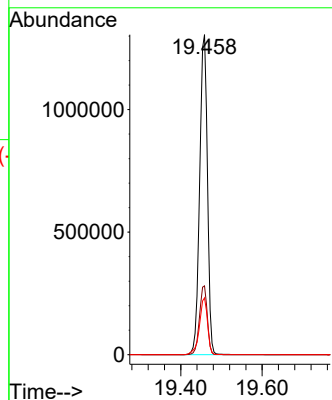
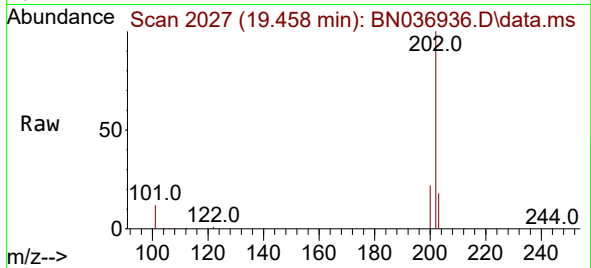




#30  
 Pyrene  
 Concen: 58.420 ng  
 RT: 19.458 min Scan# 2026  
 Delta R.T. 0.005 min  
 Lab File: BN036936.D  
 Acq: 29 Apr 2025 13:05

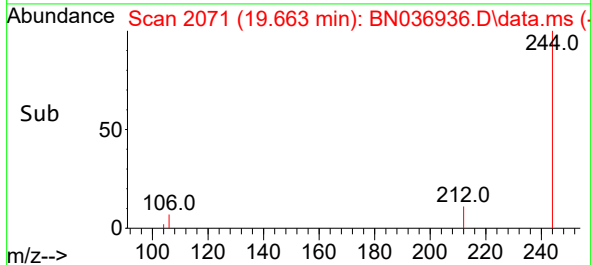
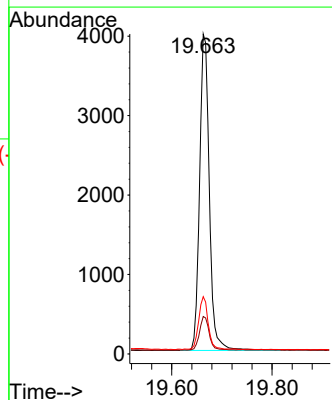
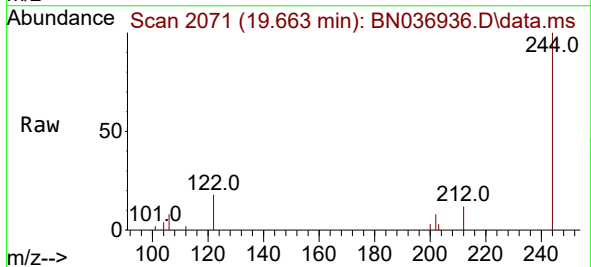
Instrument :  
 BNA\_N  
 ClientSampleId :  
 38072-010925

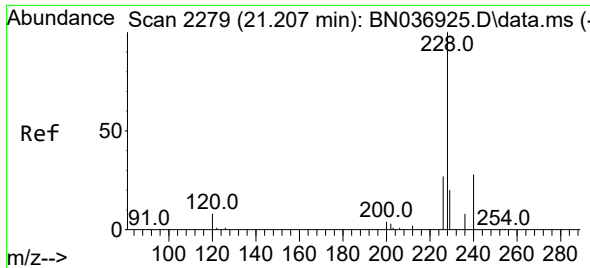
Tgt Ion:202 Resp: 1714365  
 Ion Ratio Lower Upper  
 202 100  
 200 21.7 17.0 25.6  
 203 18.6 14.0 21.0



#31  
 Terphenyl-d14  
 Concen: 0.371 ng  
 RT: 19.663 min Scan# 2071  
 Delta R.T. -0.005 min  
 Lab File: BN036936.D  
 Acq: 29 Apr 2025 13:05

Tgt Ion:244 Resp: 5329  
 Ion Ratio Lower Upper  
 244 100  
 212 11.7 9.6 14.4  
 122 17.9 12.7 19.1

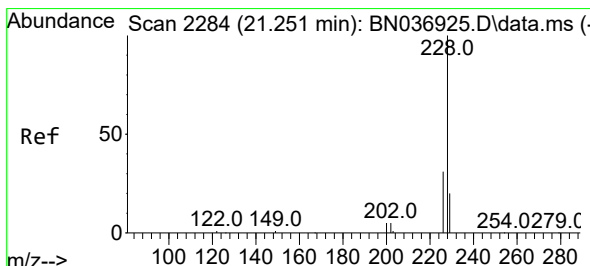
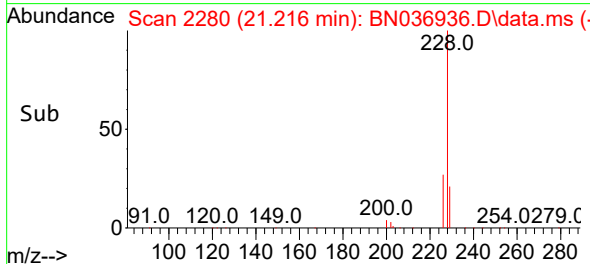
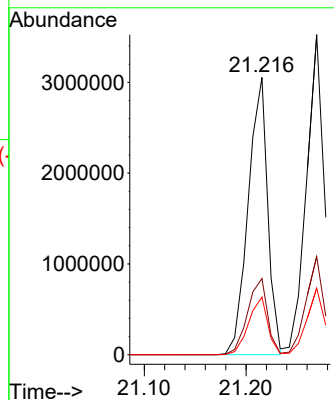
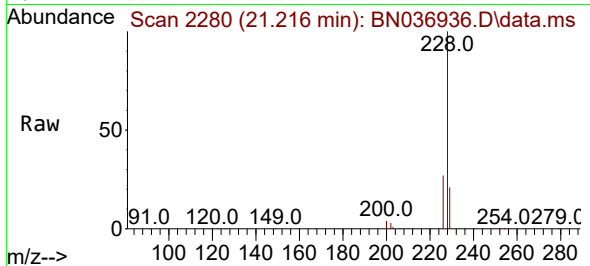




#32  
Benzo(a)anthracene  
Concen: 181.199 ng  
RT: 21.216 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

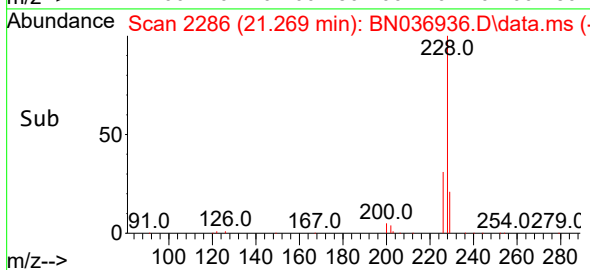
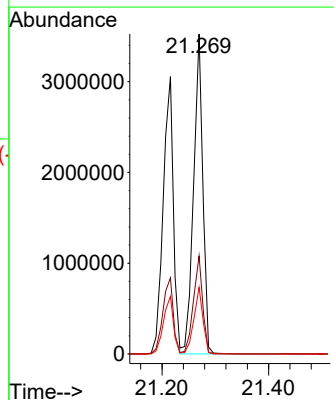
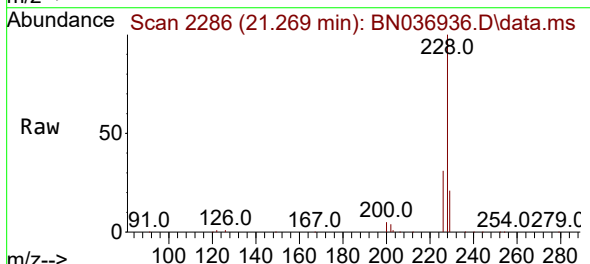
Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

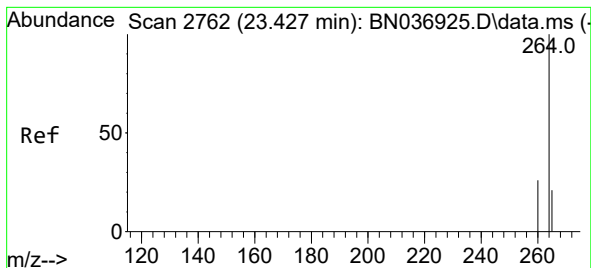
Tgt Ion:228 Resp: 4066087  
Ion Ratio Lower Upper  
228 100  
226 27.5 22.2 33.4  
229 20.8 16.4 24.6



#33  
Chrysene  
Concen: 176.238 ng  
RT: 21.269 min Scan# 2286  
Delta R.T. 0.018 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:228 Resp: 4265016  
Ion Ratio Lower Upper  
228 100  
226 30.7 25.5 38.3  
229 20.8 16.5 24.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036936.D

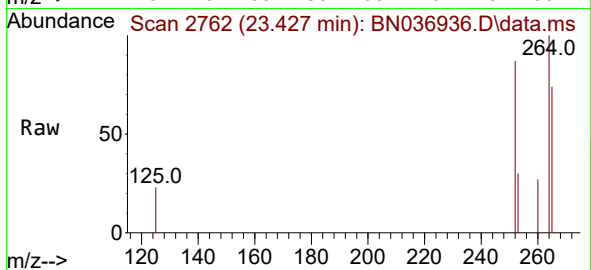
Acq: 29 Apr 2025 13:05

Instrument :

BNA\_N

ClientSampleId :

38072-010925



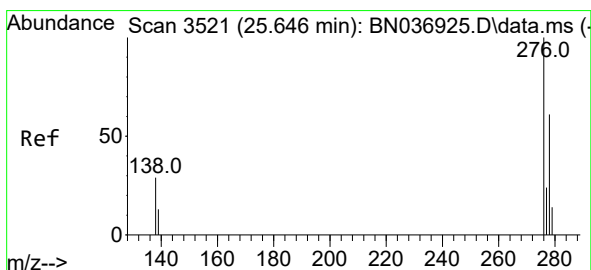
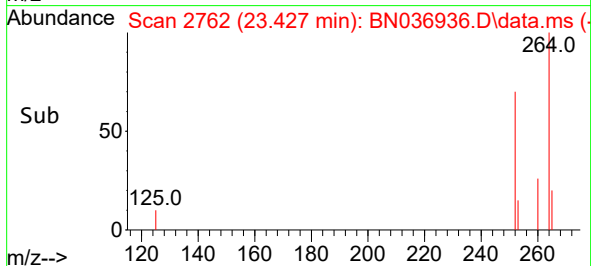
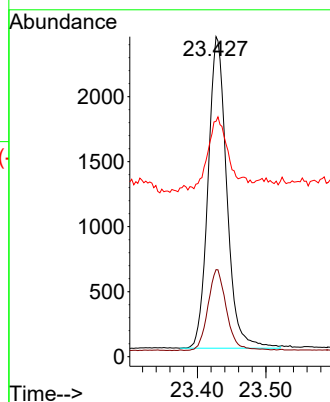
Tgt Ion:264 Resp: 4542

Ion Ratio Lower Upper

264 100

260 27.2 22.2 33.2

265 73.5 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 151.786 ng

RT: 25.684 min Scan# 3534

Delta R.T. 0.038 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

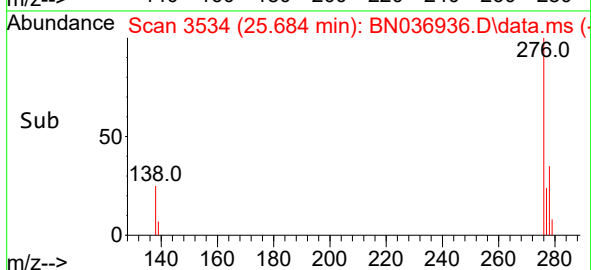
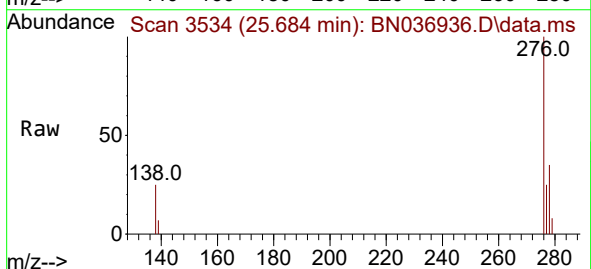
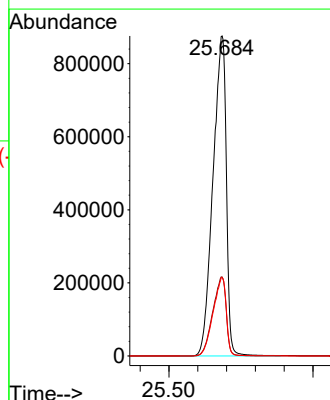
Tgt Ion:276 Resp: 2815525

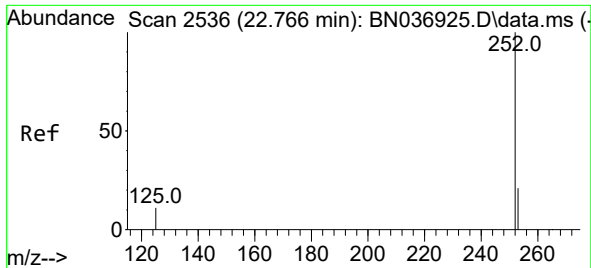
Ion Ratio Lower Upper

276 100

138 24.9 23.0 34.6

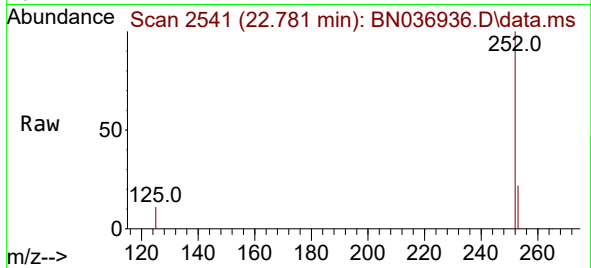
277 24.3 20.0 30.0



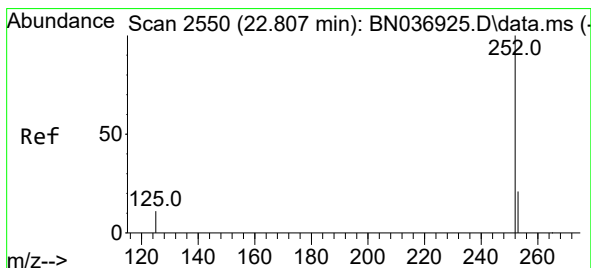
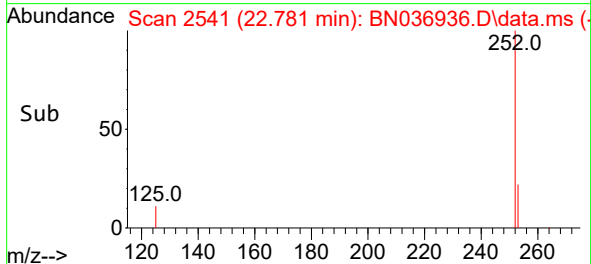
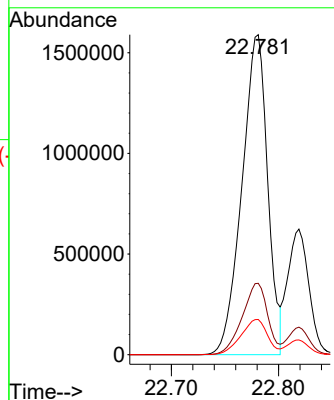


#37  
Benzo(b)fluoranthene  
Concen: 138.833 ng  
RT: 22.781 min Scan# 2541  
Delta R.T. 0.015 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

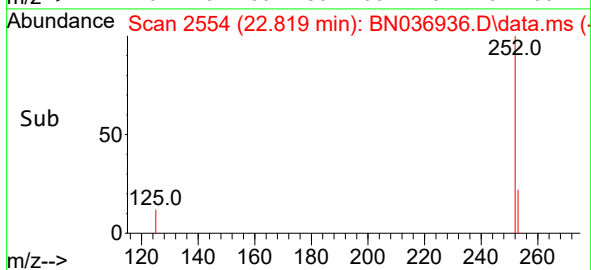
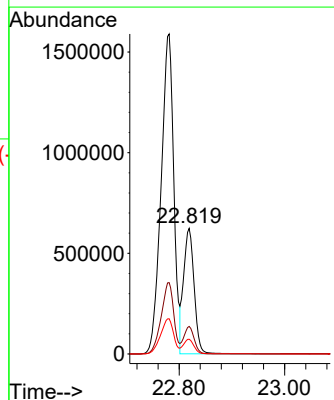
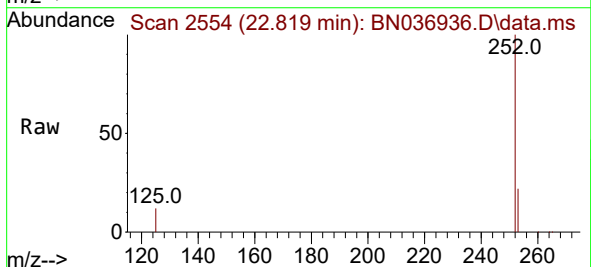


Tgt Ion:252 Resp: 2651471  
Ion Ratio Lower Upper  
252 100  
253 22.3 22.1 33.1  
125 11.0 14.2 21.2#

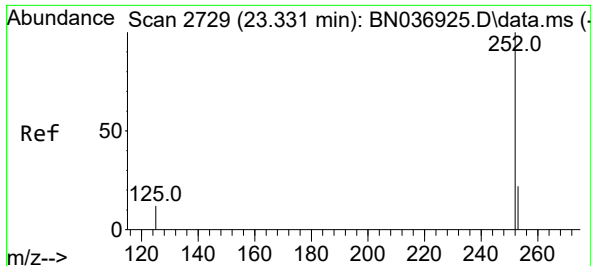


#38  
Benzo(k)fluoranthene  
Concen: 45.004 ng  
RT: 22.819 min Scan# 2554  
Delta R.T. 0.012 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Tgt Ion:252 Resp: 864365  
Ion Ratio Lower Upper  
252 100  
253 21.9 22.8 34.2#  
125 11.7 14.2 21.2#

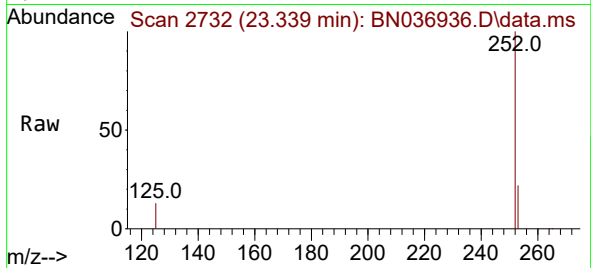




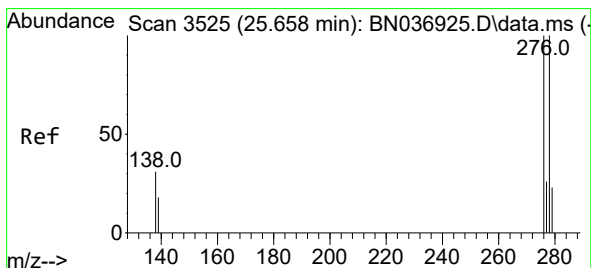
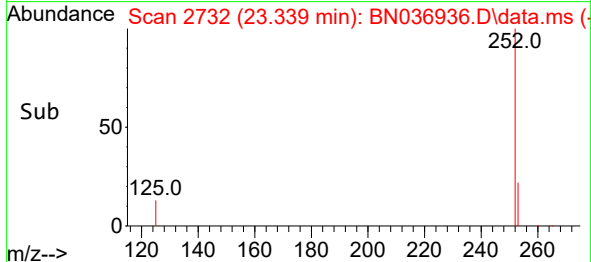
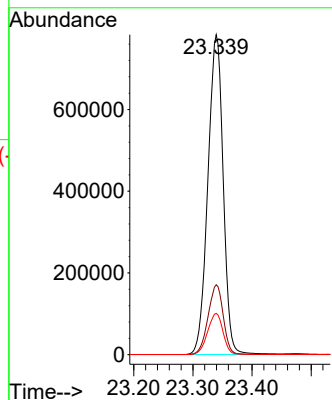


#39  
Benzo(a)pyrene  
Concen: 89.656 ng  
RT: 23.339 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925

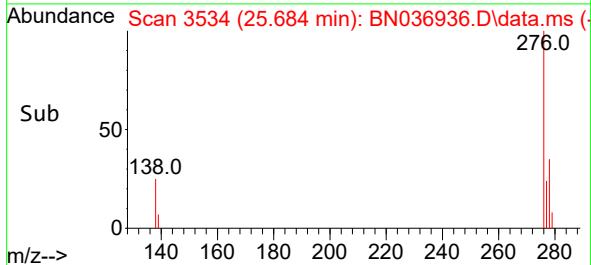
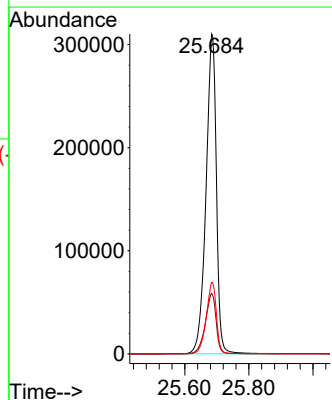
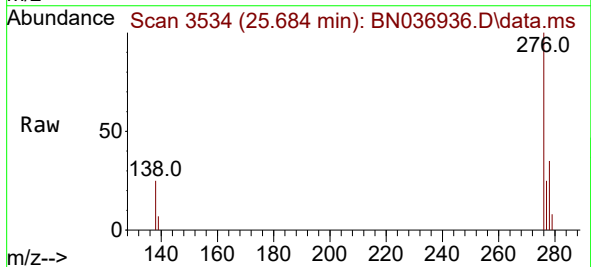


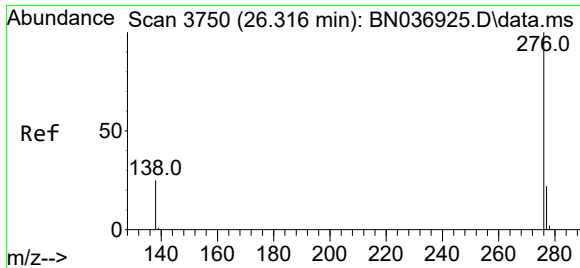
Tgt Ion:252 Resp: 1407542  
Ion Ratio Lower Upper  
252 100  
253 21.9 25.9 38.9#  
125 12.9 17.4 26.0#



#40  
Dibenzo(a,h)anthracene  
Concen: 47.928 ng  
RT: 25.684 min Scan# 3534  
Delta R.T. 0.026 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

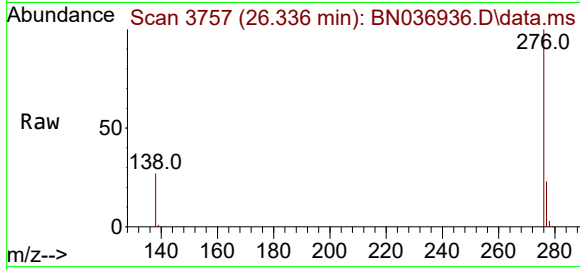
Tgt Ion:278 Resp: 699662  
Ion Ratio Lower Upper  
278 100  
139 19.0 17.4 26.2  
279 22.4 24.9 37.3#





#41  
Benzo(g,h,i)perylene  
Concen: 44.737 ng  
RT: 26.336 min Scan# 31  
Delta R.T. 0.020 min  
Lab File: BN036936.D  
Acq: 29 Apr 2025 13:05

Instrument :  
BNA\_N  
ClientSampleId :  
38072-010925



Tgt Ion:276 Resp: 724777  
Ion Ratio Lower Upper  
276 100  
277 23.4 20.2 30.2  
138 26.7 21.9 32.9

