

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN040425\  
 Data File : BN036840.D  
 Acq On : 04 Apr 2025 17:58  
 Operator : RC/JU  
 Sample : Q1731-02  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Apr 04 18:23:00 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN031025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 04 17:30:43 2025  
 Response via : Initial Calibration

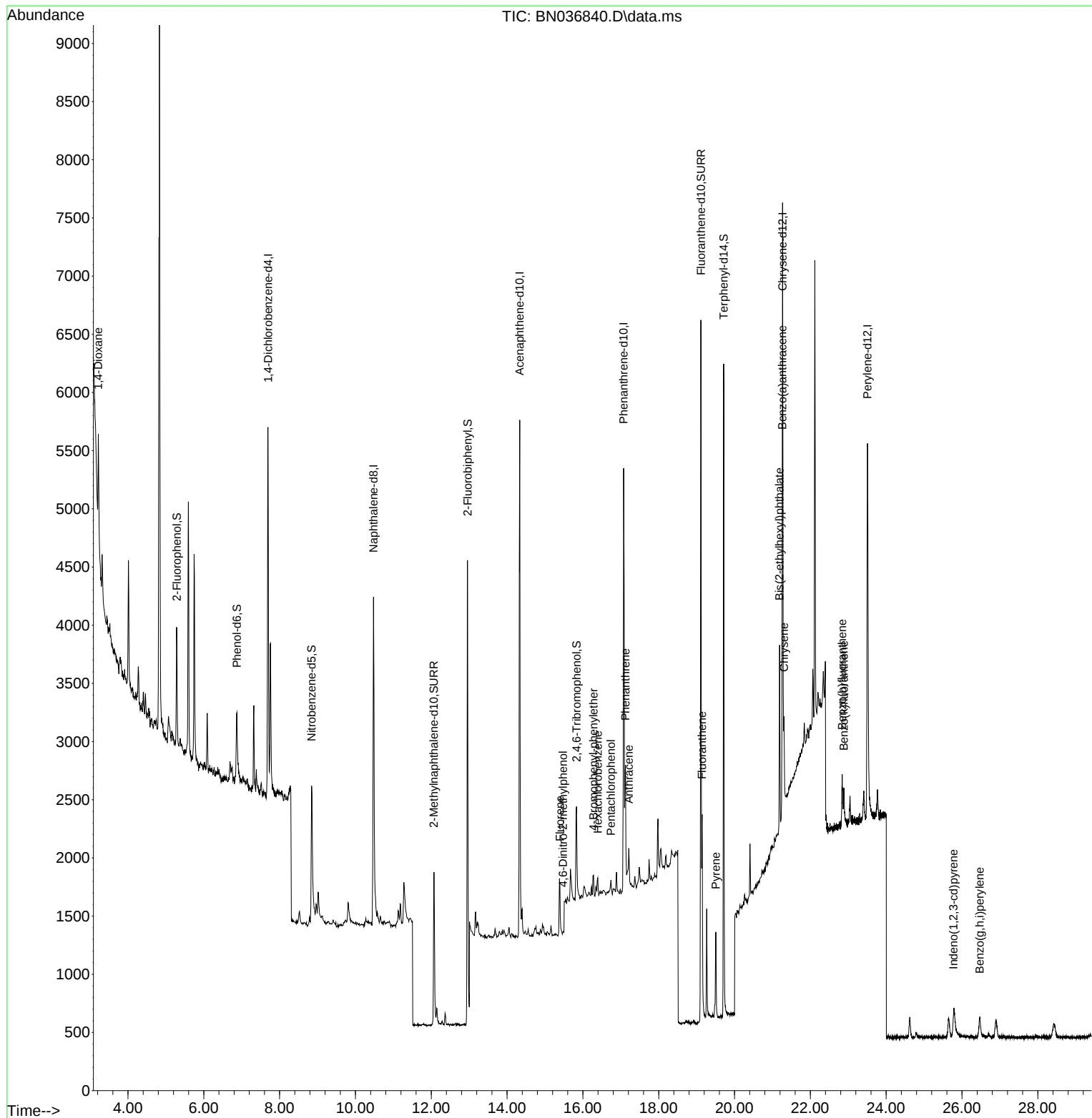
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.696  | 152  | 1693     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.477 | 136  | 4270     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.334 | 164  | 2557     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.074 | 188  | 5530     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.268 | 240  | 4895     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.508 | 264  | 4713     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.291  | 112  | 739      | 0.187 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.872  | 99   | 704      | 0.144 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.843  | 82   | 1455     | 0.313 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.070 | 152  | 2214     | 0.349 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 536      | 0.462 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.958 | 172  | 5497     | 0.370 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.113 | 212  | 6769     | 0.478 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.712 | 244  | 5514     | 0.470 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.218  | 88   | 541      | 0.288 | ng    | # 27     |
| 18) Fluorene                  | 15.393 | 166  | 231      | 0.022 | ng    | # 88     |
| 20) 4,6-Dinitro-2-methylph... | 15.478 | 198  | 18       | 0.159 | ng    | # 1      |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248  | 84       | 0.024 | ng    | 91       |
| 22) Hexachlorobenzene         | 16.391 | 284  | 126      | 0.030 | ng    | 92       |
| 24) Pentachlorophenol         | 16.739 | 266  | 77       | 0.040 | ng    | 91       |
| 25) Phenanthrene              | 17.124 | 178  | 1209     | 0.073 | ng    | 98       |
| 26) Anthracene                | 17.211 | 178  | 423      | 0.028 | ng    | 98       |
| 28) Fluoranthene              | 19.141 | 202  | 856      | 0.046 | ng    | # 55     |
| 30) Pyrene                    | 19.508 | 202  | 677      | 0.028 | ng    | # 94     |
| 32) Benzo(a)anthracene        | 21.259 | 228  | 378      | 0.022 | ng    | # 73     |
| 33) Chrysene                  | 21.304 | 228  | 501      | 0.027 | ng    | # 77     |
| 34) Bis(2-ethylhexyl)phtha... | 21.187 | 149  | 1446     | 0.119 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.776 | 276  | 413      | 0.024 | ng    | # 51     |
| 37) Benzo(b)fluoranthene      | 22.841 | 252  | 534      | 0.031 | ng    | # 1      |
| 38) Benzo(k)fluoranthene      | 22.882 | 252  | 442      | 0.025 | ng    | # 1      |
| 41) Benzo(g,h,i)perylene      | 26.466 | 276  | 384      | 0.025 | ng    | # 49     |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN040425\  
Data File : BN036840.D  
Acq On : 04 Apr 2025 17:58  
Operator : RC/JU  
Sample : Q1731-02  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :

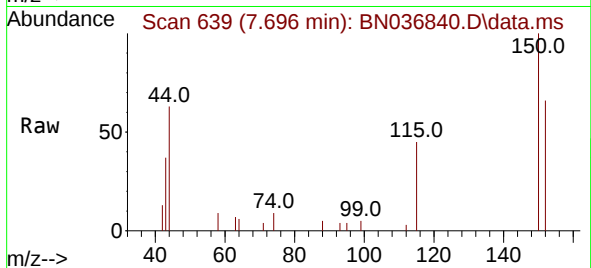
Quant Time: Apr 04 18:23:00 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN031025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 04 17:30:43 2025  
Response via : Initial Calibration



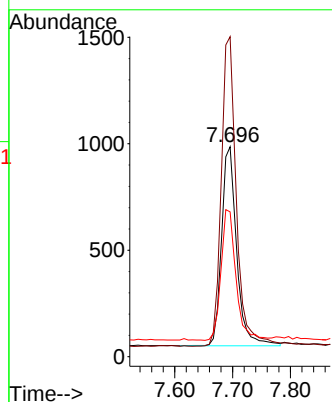
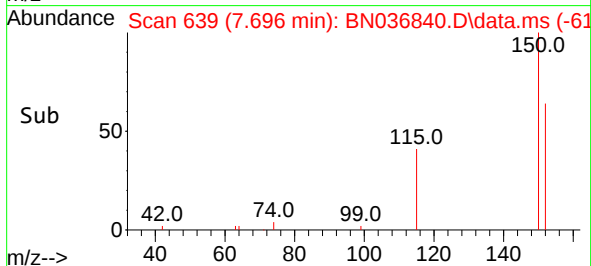


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.696 min Scan# 61  
 Delta R.T. 0.008 min  
 Lab File: BN036840.D  
 Acq: 04 Apr 2025 17:58

Instrument :  
 BNA\_N  
 ClientSampleId :

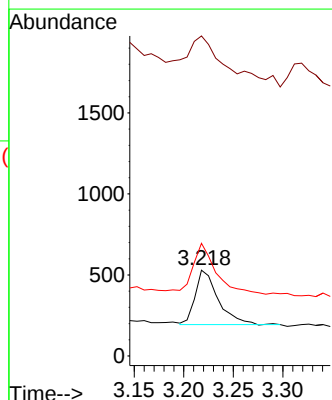
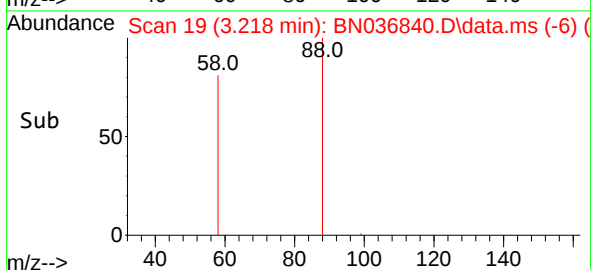
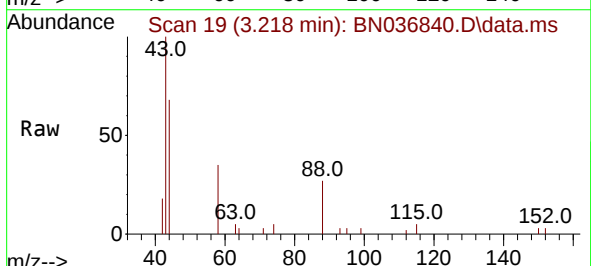


Tgt Ion:152 Resp: 1693  
 Ion Ratio Lower Upper  
 152 100  
 150 152.4 123.7 185.5  
 115 69.0 54.3 81.5



#2  
 1,4-Dioxane  
 Concen: 0.288 ng  
 RT: 3.218 min Scan# 19  
 Delta R.T. -0.007 min  
 Lab File: BN036840.D  
 Acq: 04 Apr 2025 17:58

Tgt Ion: 88 Resp: 541  
 Ion Ratio Lower Upper  
 88 100  
 43 166.7 37.8 56.8#  
 58 96.9 67.4 101.2

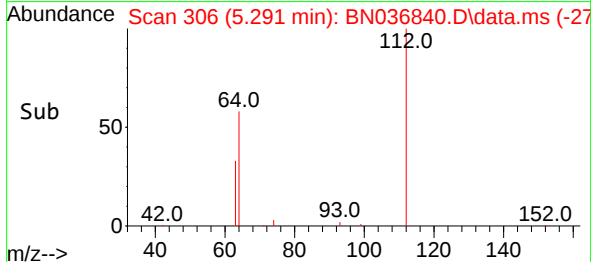
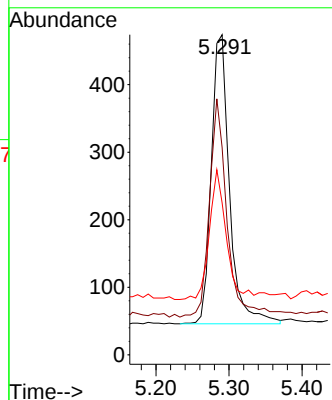
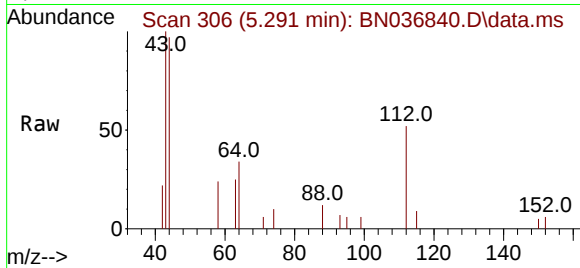




#4  
2-Fluorophenol  
Concen: 0.187 ng  
RT: 5.291 min Scan# 309  
Delta R.T. 0.007 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

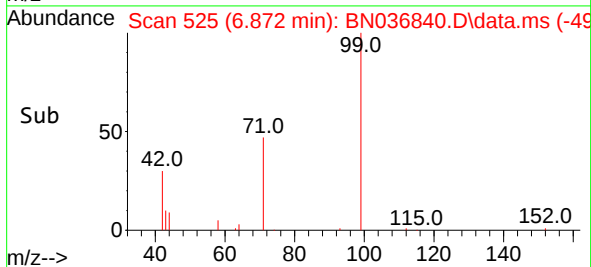
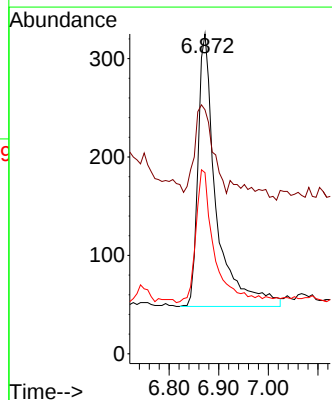
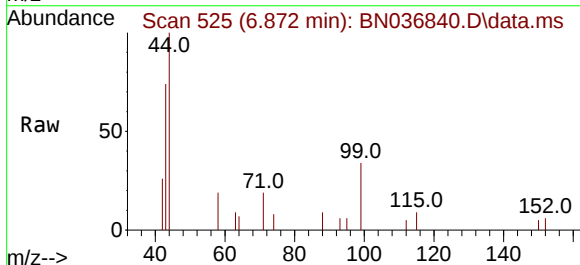
Instrument :  
BNA\_N  
ClientSampleId :

Tgt Ion:112 Resp: 739  
Ion Ratio Lower Upper  
112 100  
64 74.3 53.1 79.7  
63 44.4 31.8 47.8



#5  
Phenol-d6  
Concen: 0.144 ng  
RT: 6.872 min Scan# 525  
Delta R.T. 0.007 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

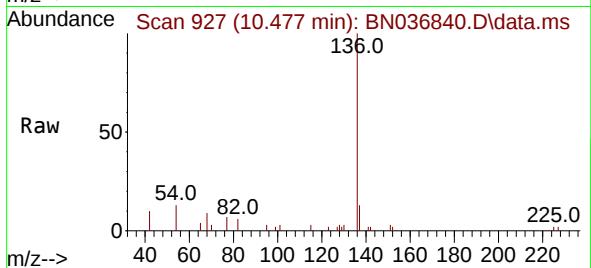
Tgt Ion: 99 Resp: 704  
Ion Ratio Lower Upper  
99 100  
42 31.5 26.5 39.7  
71 49.9 34.1 51.1



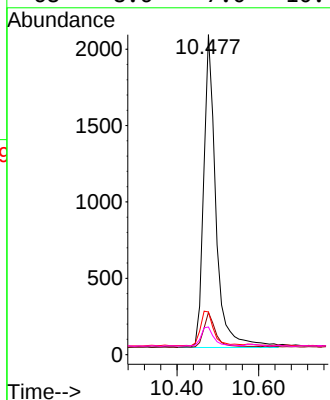
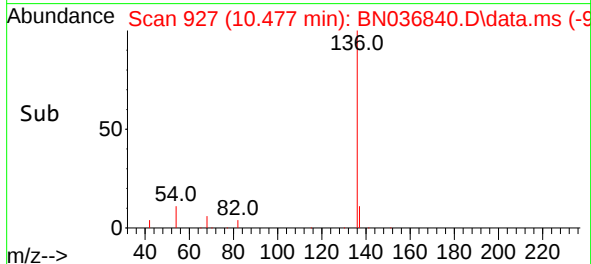


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.477 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

Instrument :  
BNA\_N  
ClientSampleId :

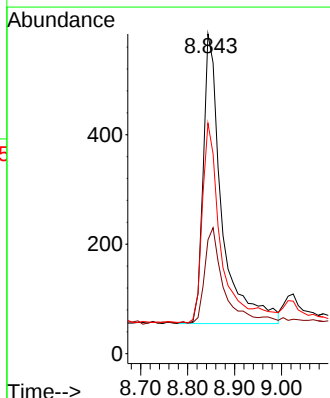
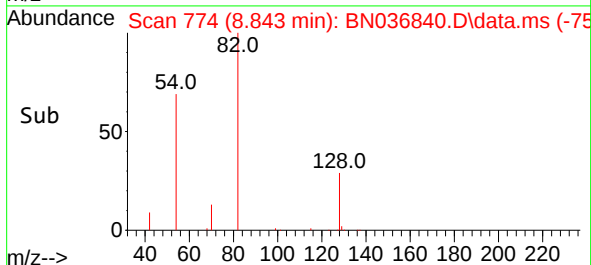
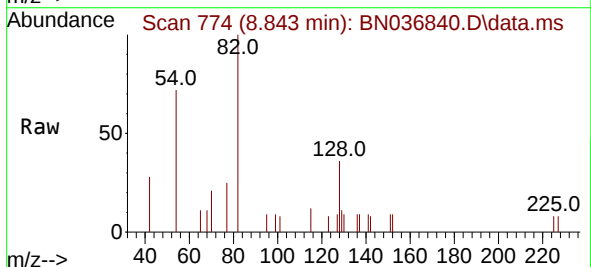


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4270  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.2  | 10.3  | 15.5  |
| 54       | 13.4  | 11.5  | 17.3  |
| 68       | 8.6   | 7.0   | 10.4  |



#8  
Nitrobenzene-d5  
Concen: 0.313 ng  
RT: 8.843 min Scan# 774  
Delta R.T. 0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1455  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 35.6  | 30.6  | 45.8  |
| 54       | 72.1  | 52.2  | 78.4  |

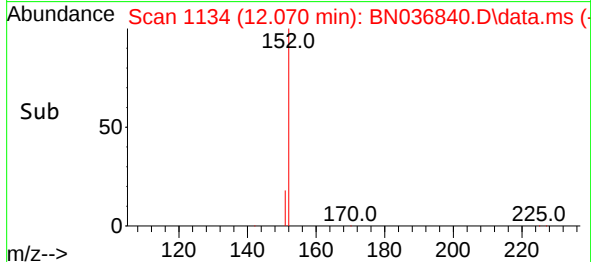
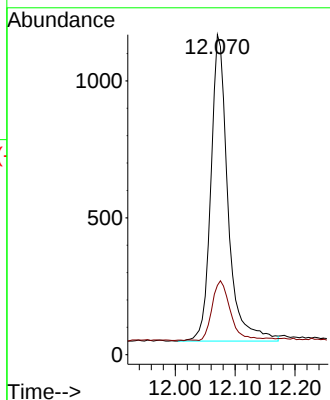
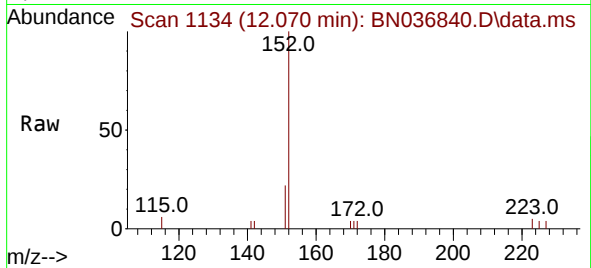




#11  
2-Methylnaphthalene-d10  
Concen: 0.349 ng  
RT: 12.070 min Scan# 1142  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

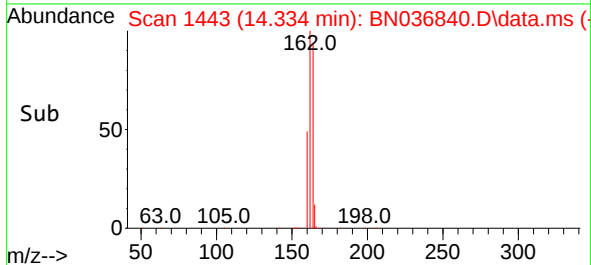
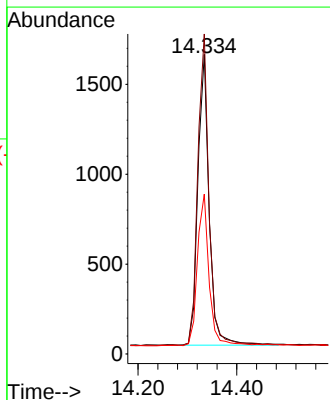
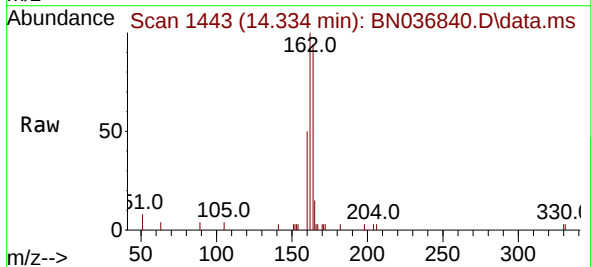
Instrument :  
BNA\_N  
ClientSampleId :

Tgt Ion:152 Resp: 2214  
Ion Ratio Lower Upper  
152 100  
151 20.5 17.0 25.6



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.334 min Scan# 1443  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

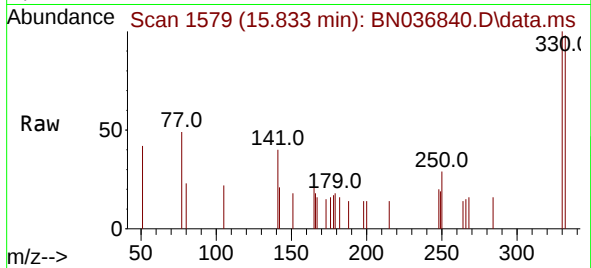
Tgt Ion:164 Resp: 2557  
Ion Ratio Lower Upper  
164 100  
162 106.8 84.2 126.2  
160 53.4 42.2 63.2



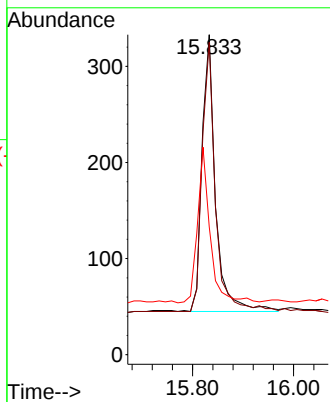
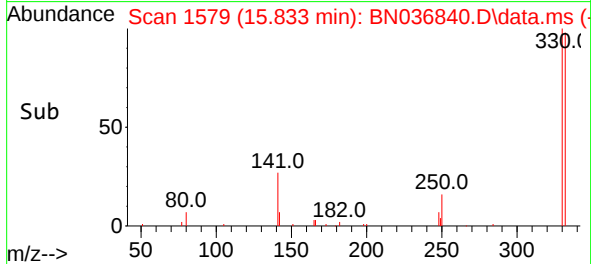


#14  
2,4,6-Tribromophenol  
Concen: 0.462 ng  
RT: 15.833 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

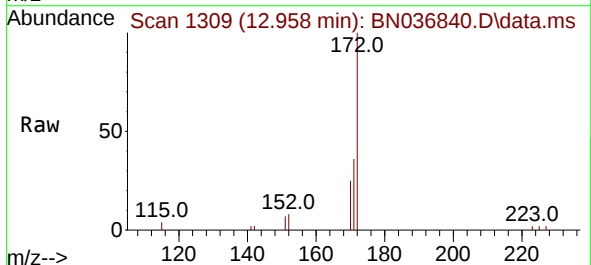
Instrument :  
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ClientSampleId :



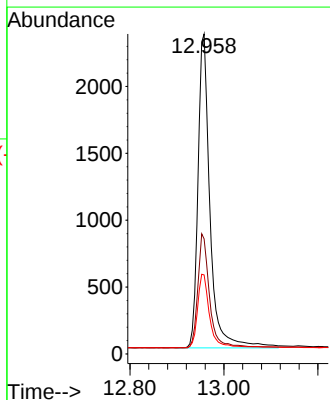
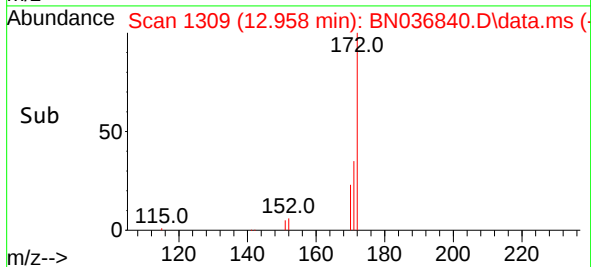
Tgt Ion:330 Resp: 536  
Ion Ratio Lower Upper  
330 100  
332 95.7 75.2 112.8  
141 52.4 43.4 65.2

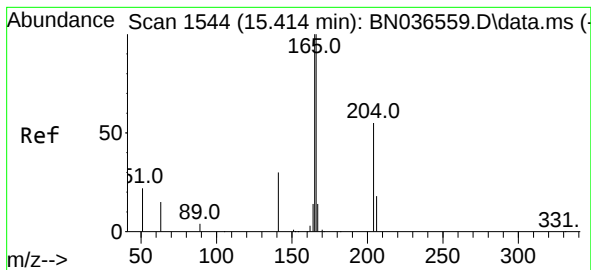


#15  
2-Fluorobiphenyl  
Concen: 0.370 ng  
RT: 12.958 min Scan# 1309  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58



Tgt Ion:172 Resp: 5497  
Ion Ratio Lower Upper  
172 100  
171 35.9 29.5 44.3  
170 24.7 20.2 30.4





#18

Fluorene

Concen: 0.022 ng

RT: 15.393 min Scan# 1

Delta R.T. 0.011 min

Lab File: BN036840.D

Acq: 04 Apr 2025 17:58

Instrument :

BNA\_N

ClientSampleId :

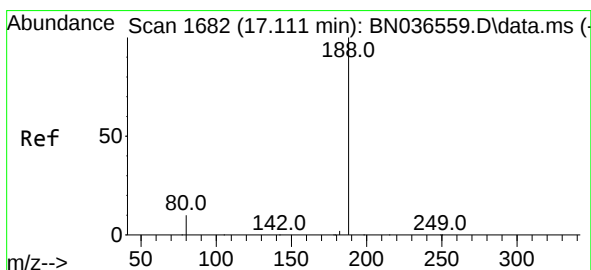
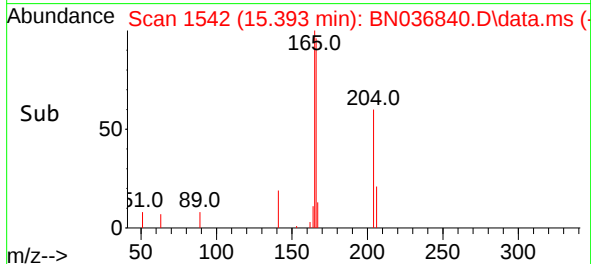
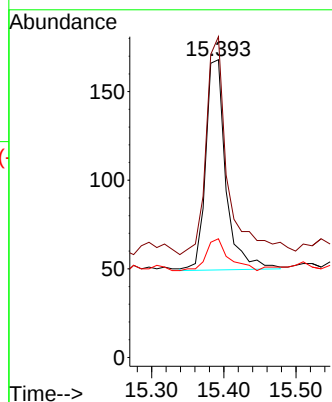
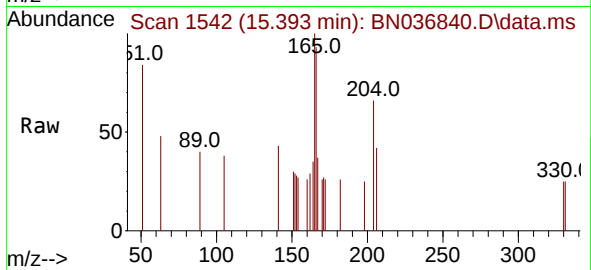
Tgt Ion:166 Resp: 231

Ion Ratio Lower Upper

166 100

165 112.1 79.8 119.8

167 16.9 10.6 15.8#



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.074 min Scan# 1679

Delta R.T. -0.000 min

Lab File: BN036840.D

Acq: 04 Apr 2025 17:58

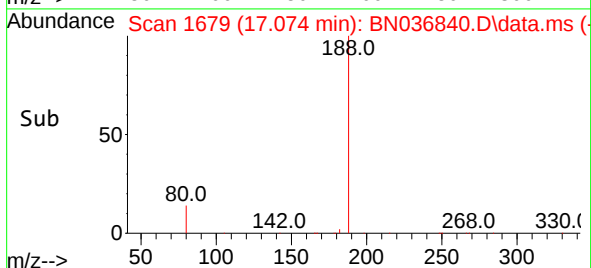
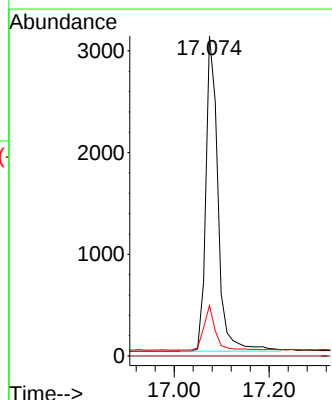
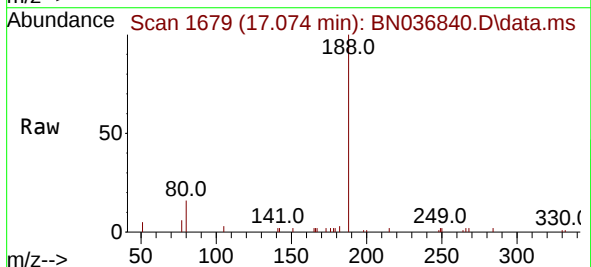
Tgt Ion:188 Resp: 5530

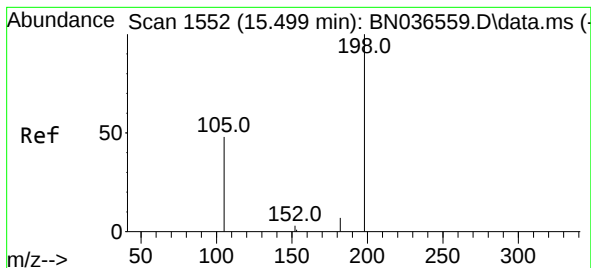
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.8 8.8 13.2#

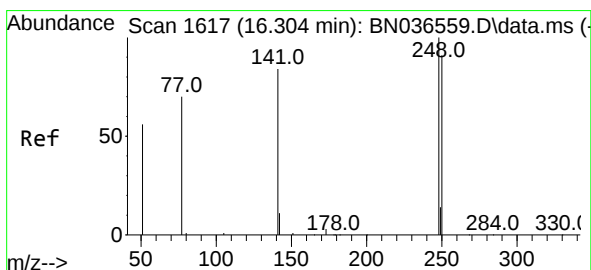
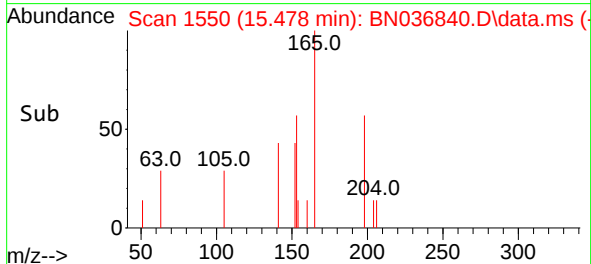
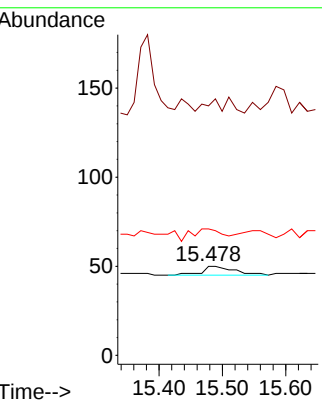
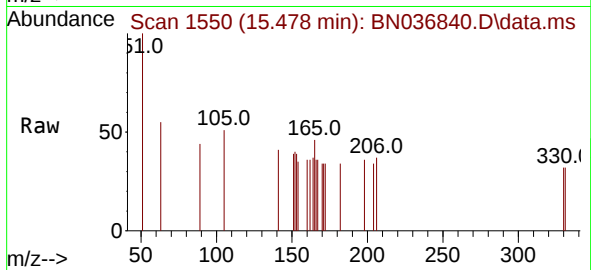




#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.159 ng  
RT: 15.478 min Scan# 1550  
Delta R.T. 0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

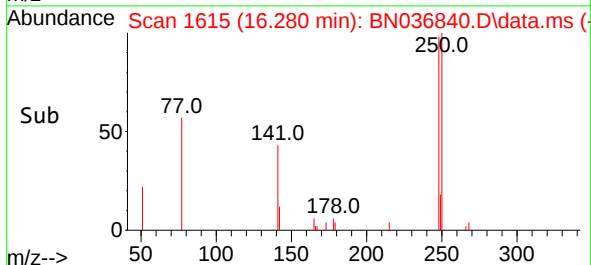
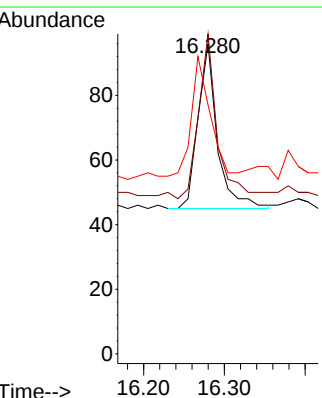
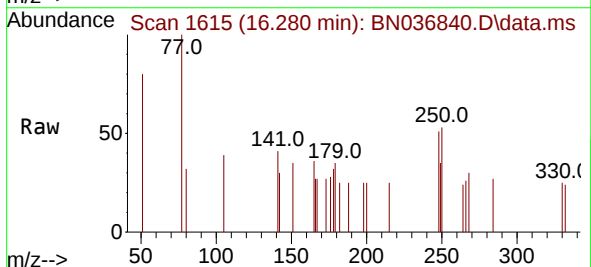
Instrument :  
BNA\_N  
ClientSampleId :

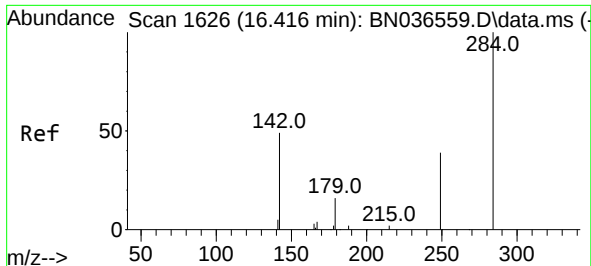
Tgt Ion:198 Resp: 18  
Ion Ratio Lower Upper  
198 100  
51 280.0 107.9 161.9#  
105 142.0 56.2 84.2#



#21  
4-Bromophenyl-phenylether  
Concen: 0.024 ng  
RT: 16.280 min Scan# 1615  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

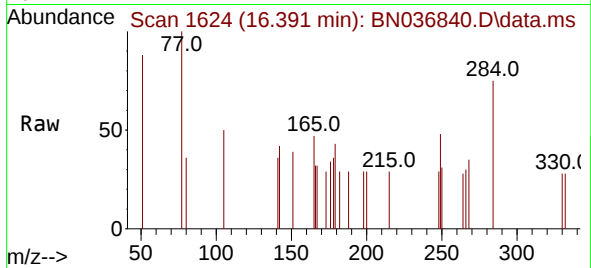
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Ion Ratio Lower Upper  
248 100  
250 103.1 73.0 109.6  
141 80.2 68.6 103.0



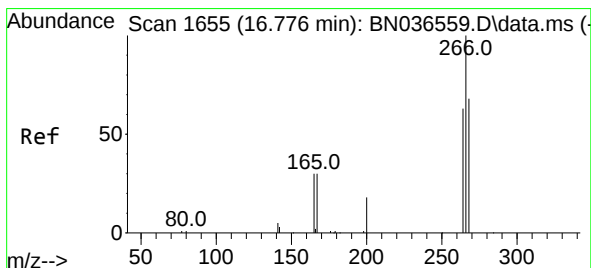
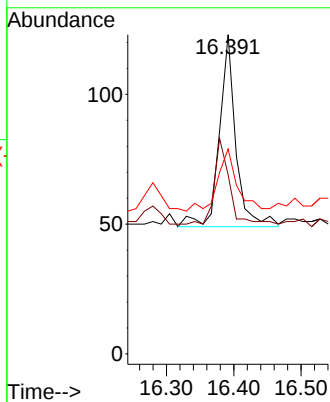
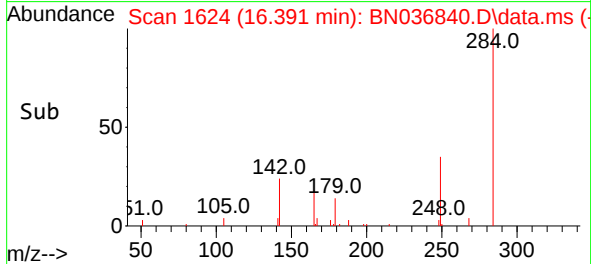


#22  
Hexachlorobenzene  
Concen: 0.030 ng  
RT: 16.391 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

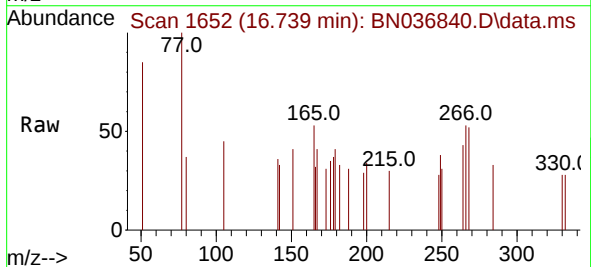
Instrument :  
BNA\_N  
ClientSampleId :



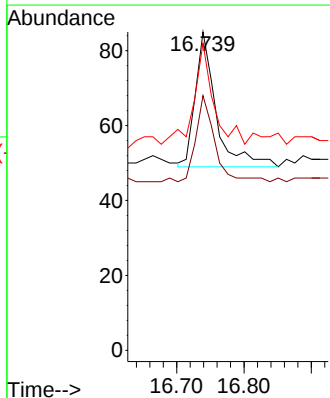
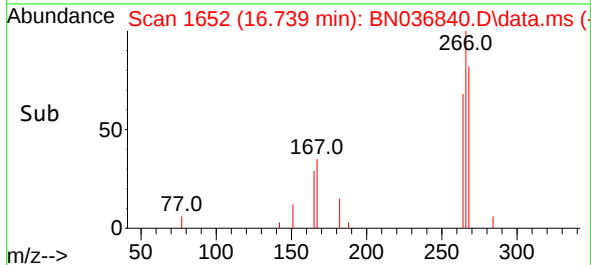
Tgt Ion:284 Resp: 126  
Ion Ratio Lower Upper  
284 100  
142 39.7 37.0 55.4  
249 38.9 28.1 42.1

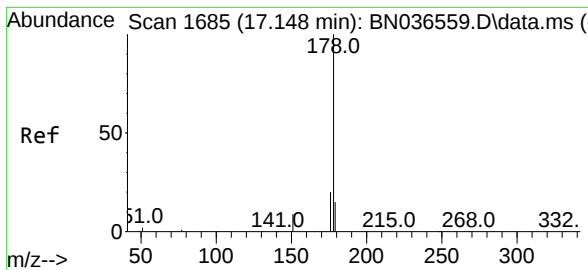


#24  
Pentachlorophenol  
Concen: 0.040 ng  
RT: 16.739 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58



Tgt Ion:266 Resp: 77  
Ion Ratio Lower Upper  
266 100  
264 58.4 49.6 74.4  
268 74.0 50.9 76.3

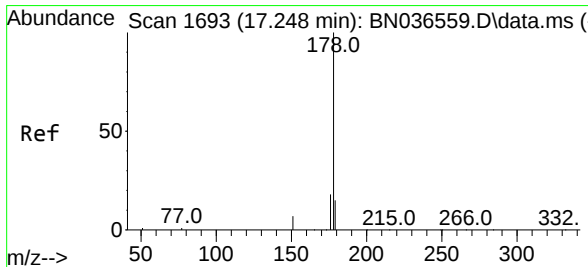
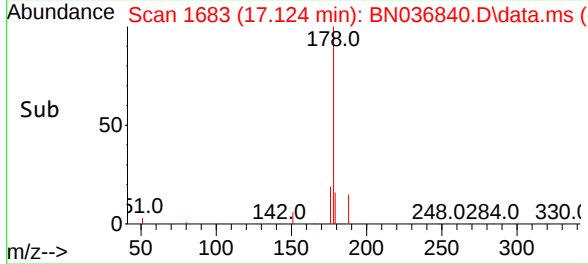
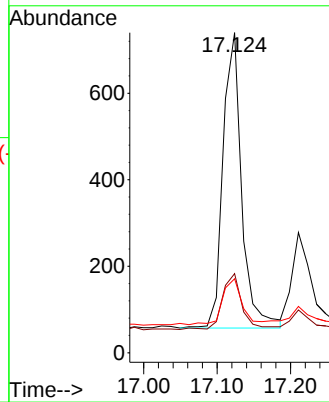
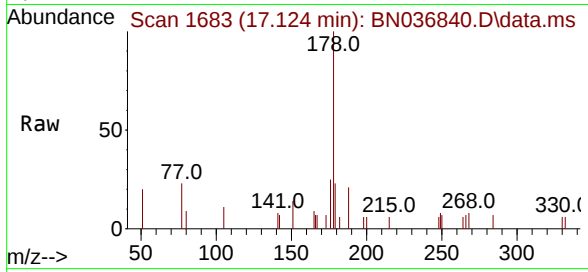




#25  
 Phenanthrene  
 Concen: 0.073 ng  
 RT: 17.124 min Scan# 1683  
 Delta R.T. -0.000 min  
 Lab File: BN036840.D  
 Acq: 04 Apr 2025 17:58

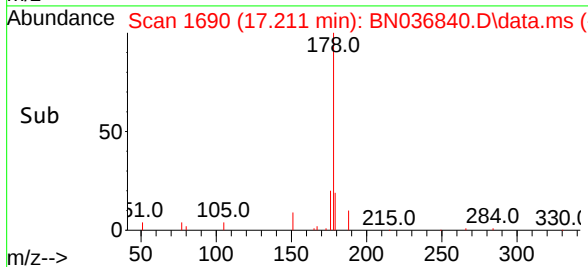
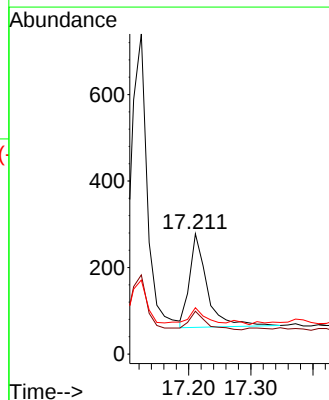
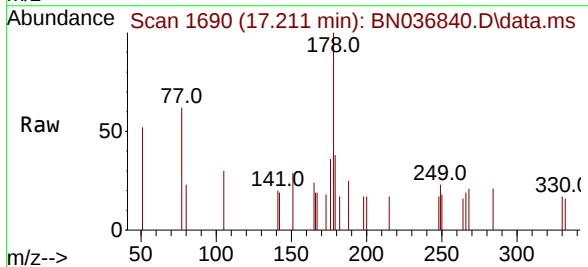
Instrument :  
 BNA\_N  
 ClientSampleId :

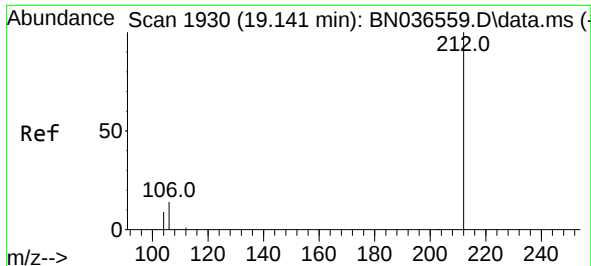
Tgt Ion:178 Resp: 1209  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 15.9 23.9  
 179 16.1 12.2 18.4



#26  
 Anthracene  
 Concen: 0.028 ng  
 RT: 17.211 min Scan# 1690  
 Delta R.T. 0.000 min  
 Lab File: BN036840.D  
 Acq: 04 Apr 2025 17:58

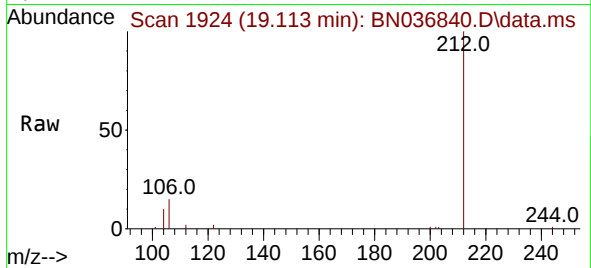
Tgt Ion:178 Resp: 423  
 Ion Ratio Lower Upper  
 178 100  
 176 18.4 15.4 23.2  
 179 14.7 12.6 18.8



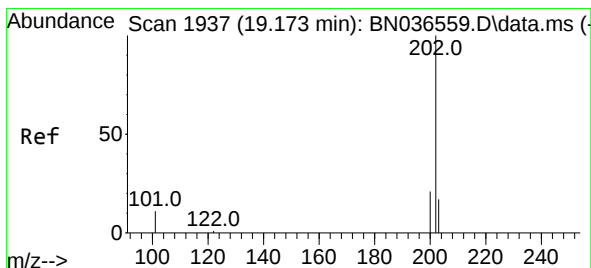
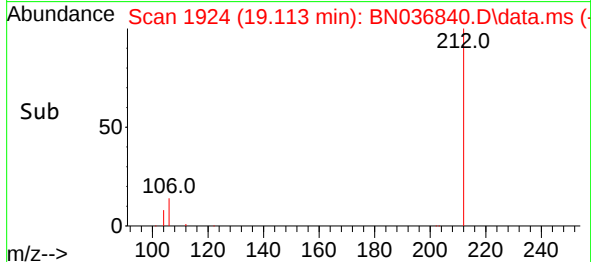
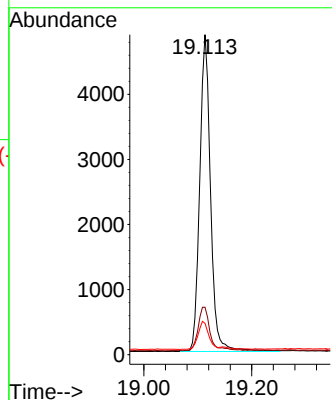


#27  
Fluoranthene-d10  
Concen: 0.478 ng  
RT: 19.113 min Scan# 1913  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

Instrument :  
BNA\_N  
ClientSampleId :

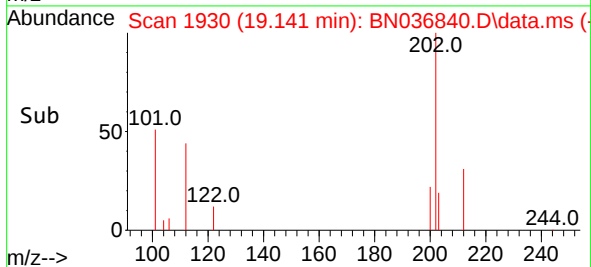
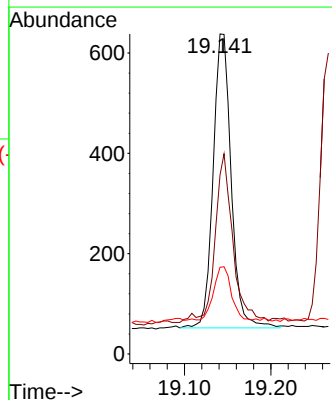
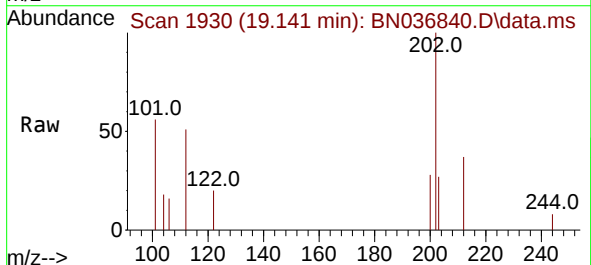


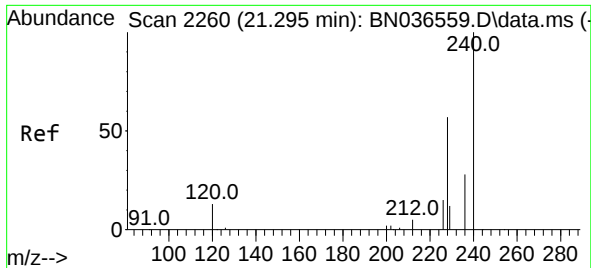
Tgt Ion:212 Resp: 6769  
Ion Ratio Lower Upper  
212 100  
106 15.1 11.8 17.6  
104 8.8 7.3 10.9



#28  
Fluoranthene  
Concen: 0.046 ng  
RT: 19.141 min Scan# 1930  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

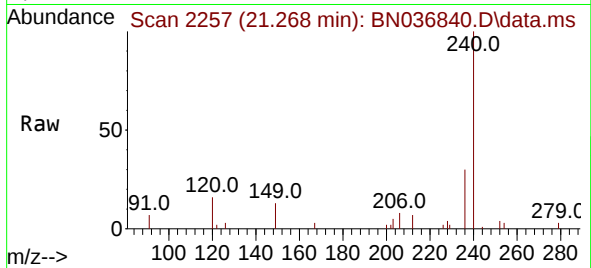
Tgt Ion:202 Resp: 856  
Ion Ratio Lower Upper  
202 100  
101 53.3 9.4 14.0#  
203 17.9 13.5 20.3



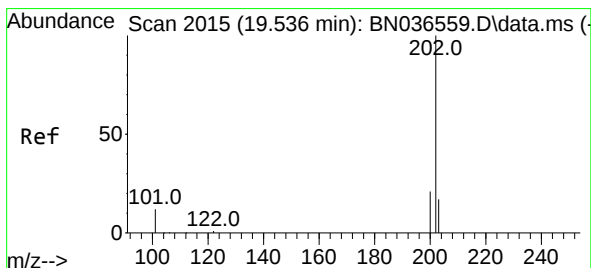
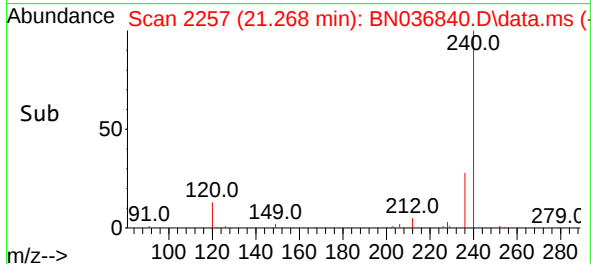
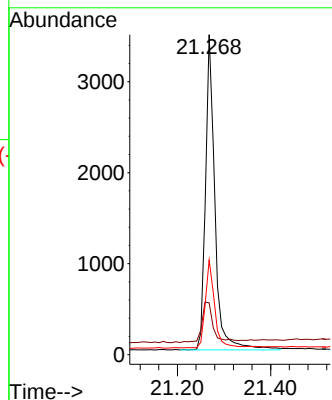


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.268 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

Instrument :  
BNA\_N  
ClientSampleId :

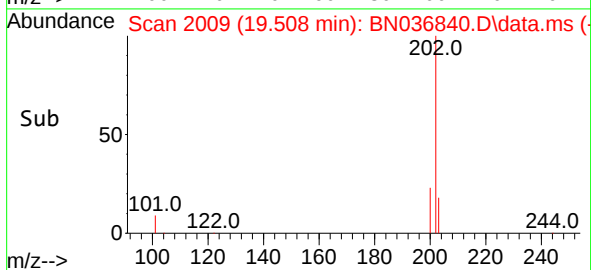
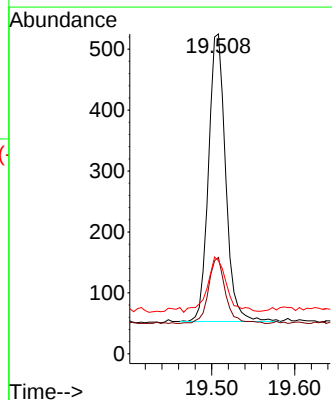
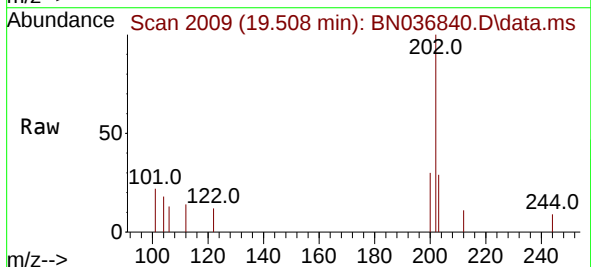


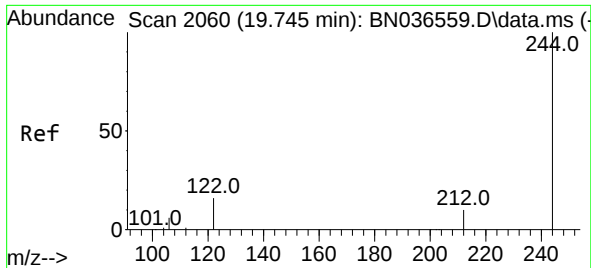
Tgt Ion:240 Resp: 4895  
Ion Ratio Lower Upper  
240 100  
120 16.2 14.6 22.0  
236 29.6 24.1 36.1



#30  
Pyrene  
Concen: 0.028 ng  
RT: 19.508 min Scan# 2009  
Delta R.T. -0.000 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

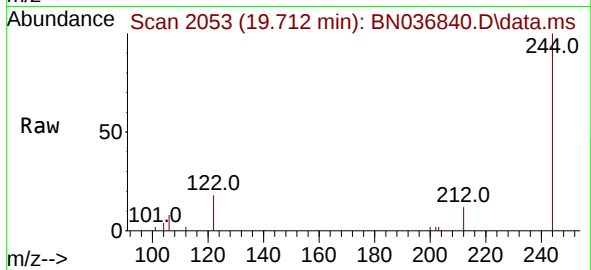
Tgt Ion:202 Resp: 677  
Ion Ratio Lower Upper  
202 100  
200 22.6 17.1 25.7  
203 22.0 14.1 21.1#



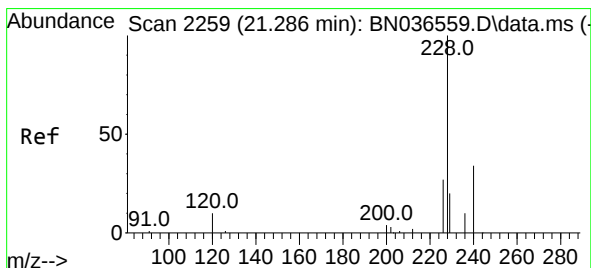
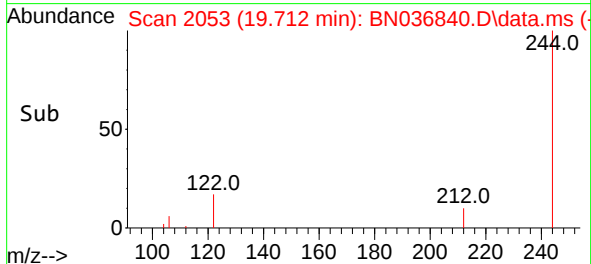
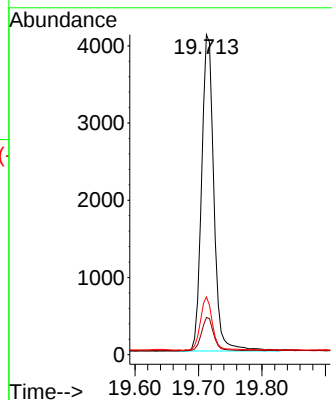


#31  
 Terphenyl-d14  
 Concen: 0.470 ng  
 RT: 19.712 min Scan# 2060  
 Delta R.T. -0.005 min  
 Lab File: BN036840.D  
 Acq: 04 Apr 2025 17:58

Instrument :  
 BNA\_N  
 ClientSampleId :

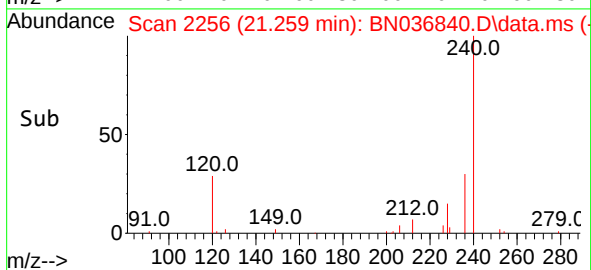
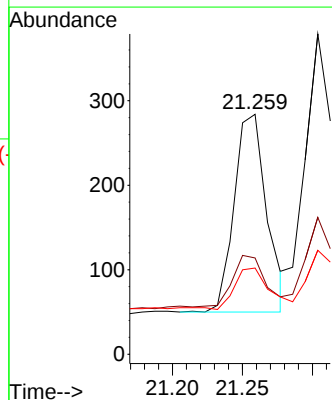
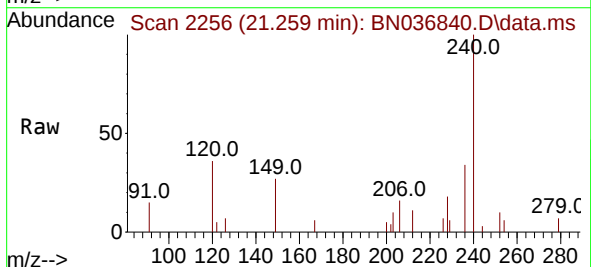


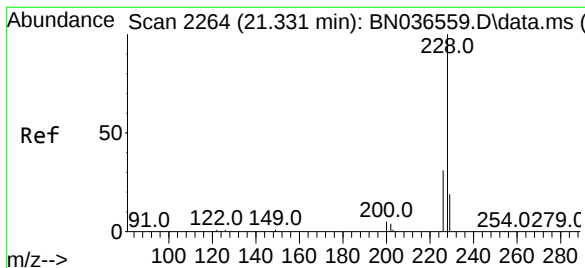
Tgt Ion:244 Resp: 5514  
 Ion Ratio Lower Upper  
 244 100  
 212 11.6 9.6 14.4  
 122 18.1 13.9 20.9



#32  
 Benzo(a)anthracene  
 Concen: 0.022 ng  
 RT: 21.259 min Scan# 2256  
 Delta R.T. -0.000 min  
 Lab File: BN036840.D  
 Acq: 04 Apr 2025 17:58

Tgt Ion:228 Resp: 378  
 Ion Ratio Lower Upper  
 228 100  
 226 40.1 22.5 33.7#  
 229 35.9 16.6 25.0#





#33

Chrysene

Concen: 0.027 ng

RT: 21.304 min Scan# 21

Delta R.T. -0.000 min

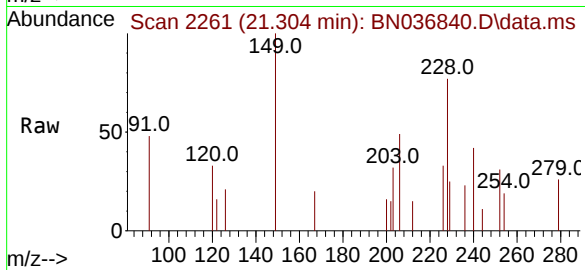
Lab File: BN036840.D

Acq: 04 Apr 2025 17:58

Instrument :

BNA\_N

ClientSampleId :



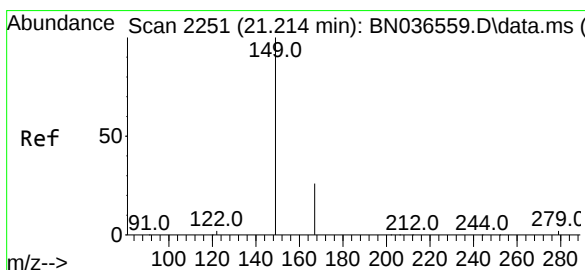
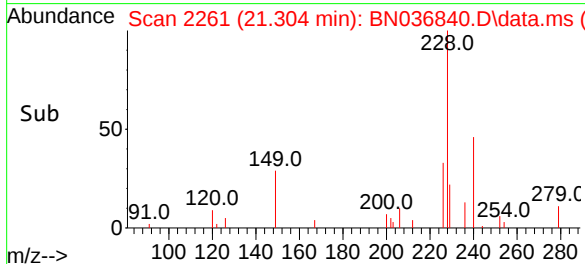
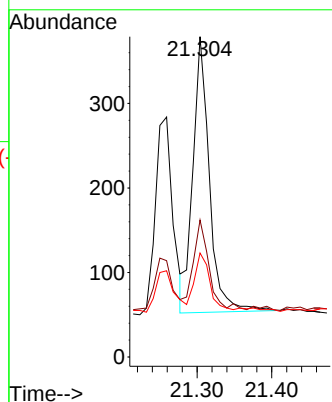
Tgt Ion:228 Resp: 501

Ion Ratio Lower Upper

228 100

226 42.7 25.3 37.9#

229 32.5 15.8 23.8#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.119 ng

RT: 21.187 min Scan# 2248

Delta R.T. -0.000 min

Lab File: BN036840.D

Acq: 04 Apr 2025 17:58

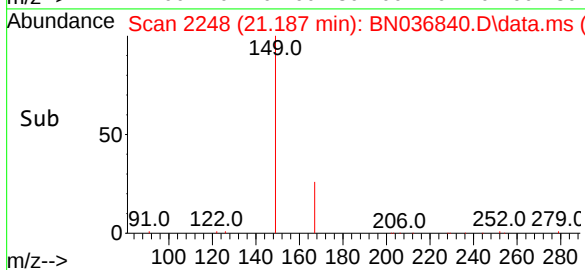
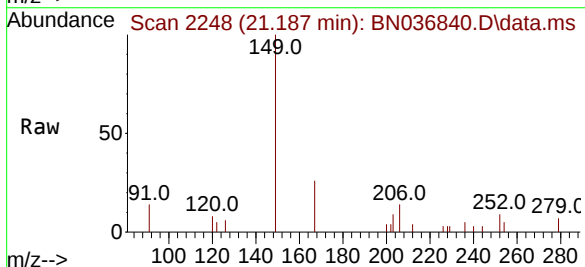
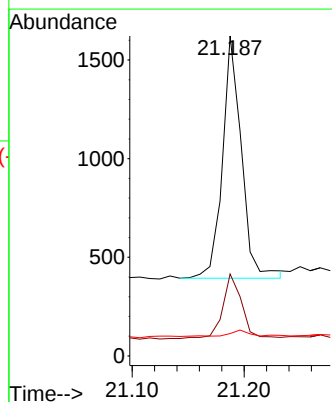
Tgt Ion:149 Resp: 1446

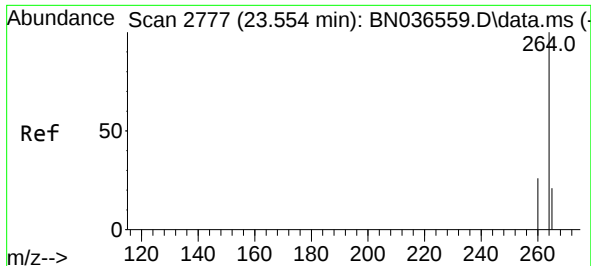
Ion Ratio Lower Upper

149 100

167 26.8 20.7 31.1

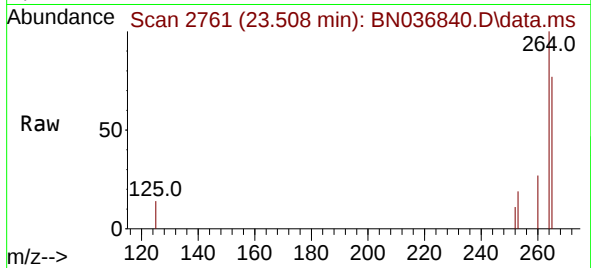
279 3.0 3.6 5.4#



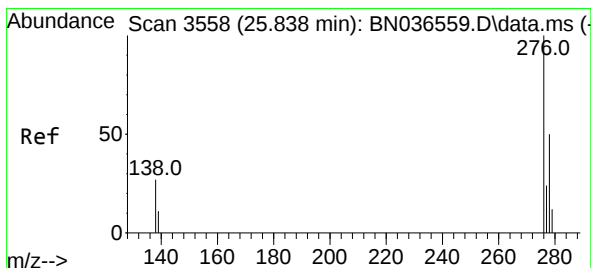
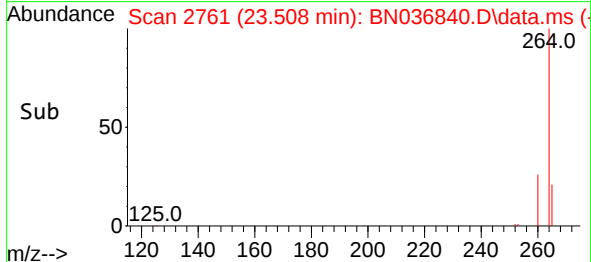
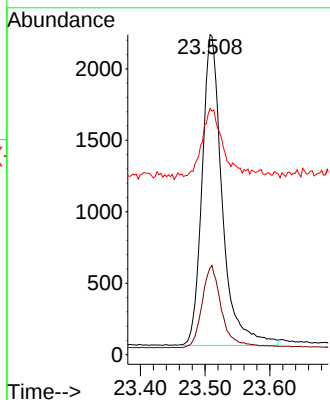


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.508 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

Instrument :  
BNA\_N  
ClientSampleId :

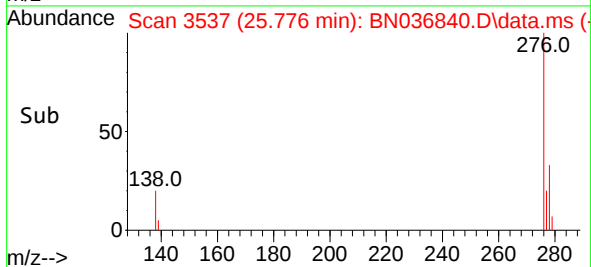
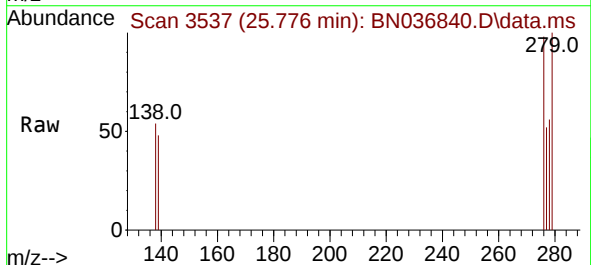
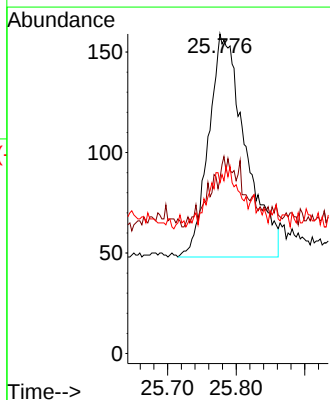


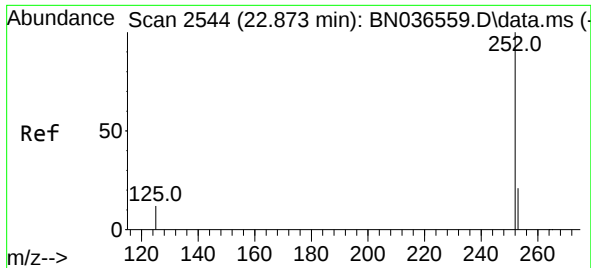
Tgt Ion:264 Resp: 4713  
Ion Ratio Lower Upper  
264 100  
260 27.1 22.6 33.8  
265 77.0 88.1 132.1#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.024 ng  
RT: 25.776 min Scan# 3537  
Delta R.T. 0.006 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

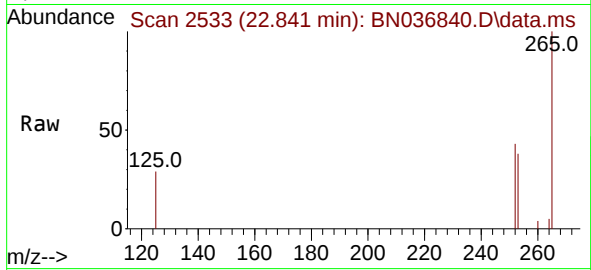
Tgt Ion:276 Resp: 413  
Ion Ratio Lower Upper  
276 100  
138 3.6 23.4 35.2#  
277 0.0 20.0 30.0#



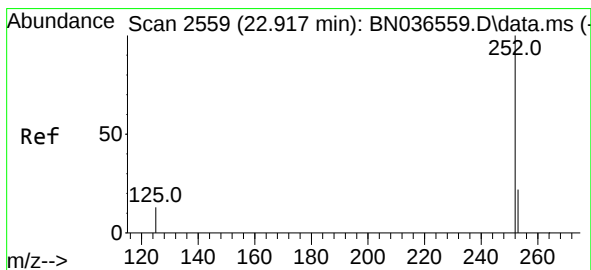
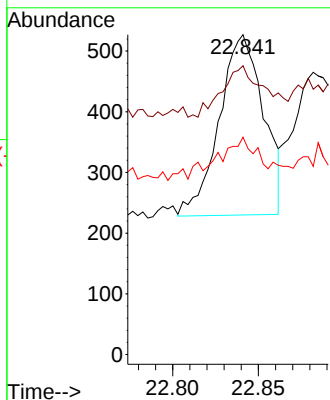


#37  
Benzo(b)fluoranthene  
Concen: 0.031 ng  
RT: 22.841 min Scan# 2547  
Delta R.T. 0.003 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

Instrument :  
BNA\_N  
ClientSampleId :

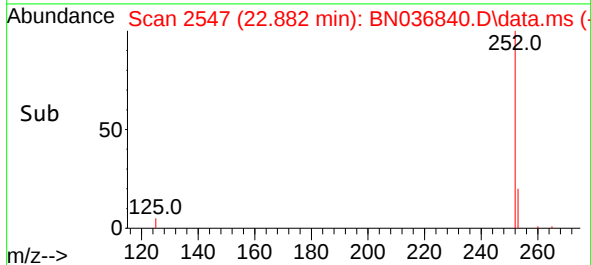
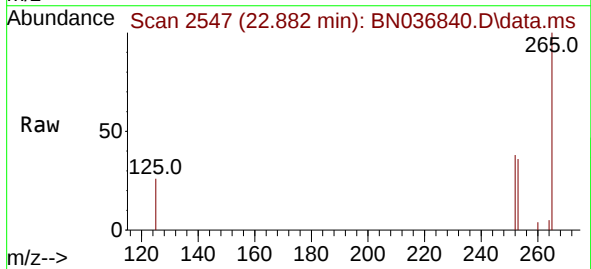


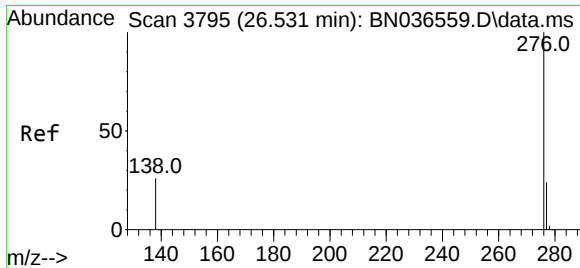
Tgt Ion:252 Resp: 534  
Ion Ratio Lower Upper  
252 100  
253 90.3 23.9 35.9#  
125 67.9 17.4 26.2#



#38  
Benzo(k)fluoranthene  
Concen: 0.025 ng  
RT: 22.882 min Scan# 2547  
Delta R.T. 0.003 min  
Lab File: BN036840.D  
Acq: 04 Apr 2025 17:58

Tgt Ion:252 Resp: 442  
Ion Ratio Lower Upper  
252 100  
253 94.0 24.6 36.8#  
125 66.7 17.8 26.8#





#41

Benzo(g,h,i)perylene

Concen: 0.025 ng

RT: 26.466 min Scan# 31

Delta R.T. 0.009 min

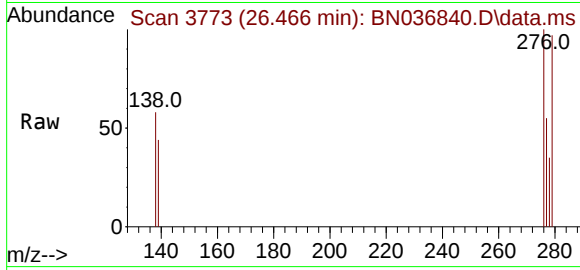
Lab File: BN036840.D

Acq: 04 Apr 2025 17:58

Instrument :

BNA\_N

ClientSampleId :



Tgt Ion: 276 Resp: 384

Ion Ratio Lower Upper

276 100

277 54.7 22.2 33.4#

138 57.8 24.1 36.1#

