

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041825\  
 Data File : BM049974.D  
 Acq On : 18 Apr 2025 20:22  
 Operator : RC/JU  
 Sample : Q1832-37 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PL-714-COMP-07

Quant Time: Apr 18 23:11:34 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 09 04:00:55 2025  
 Response via : Initial Calibration

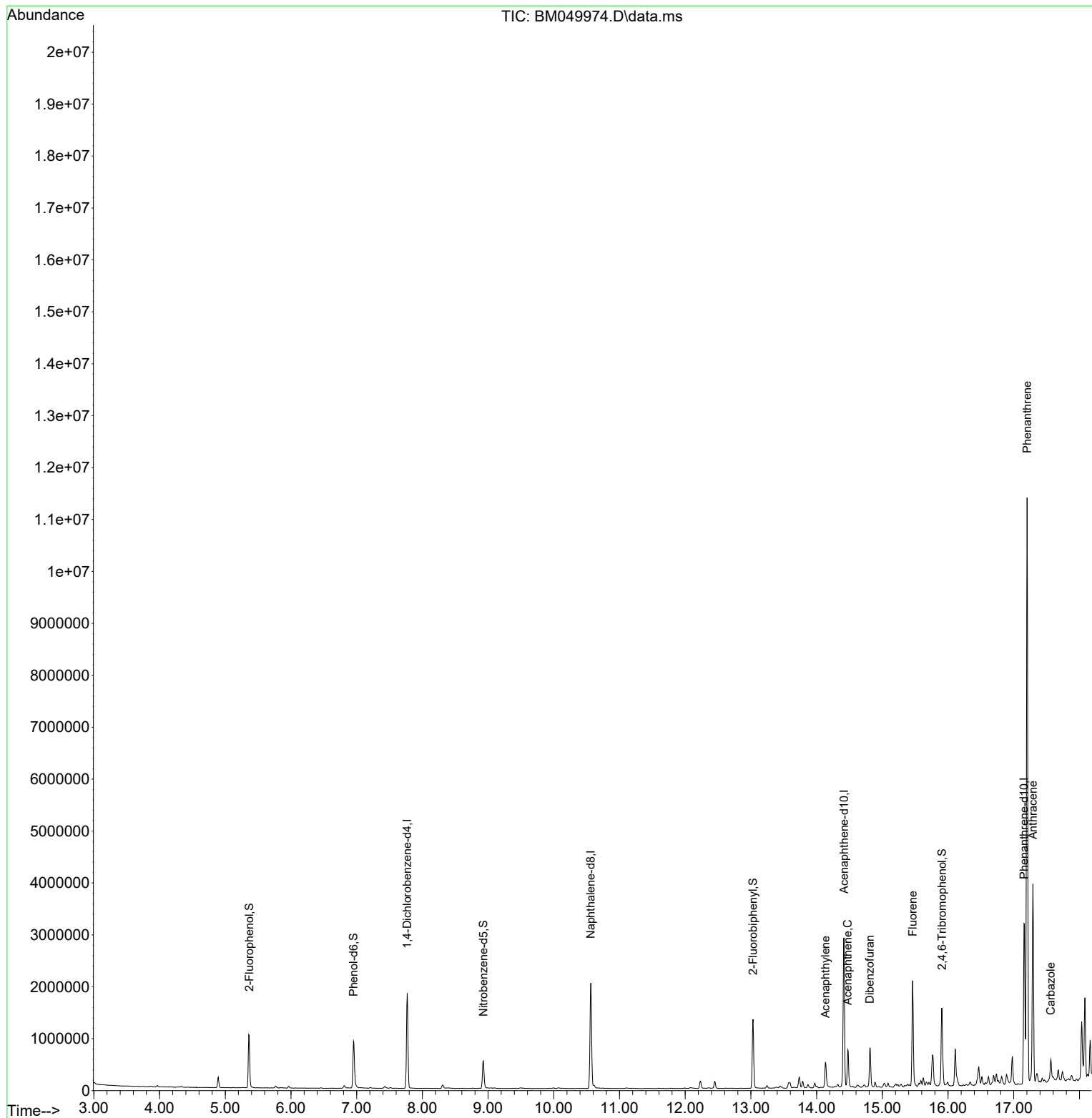
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.769  | 152  | 545345   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.563 | 136  | 1771085  | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.416 | 164  | 1056809  | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.157 | 188  | 1982779  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.403 | 240  | 1918056  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 24.409 | 264  | 1904503  | 20.000 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.363  | 112  | 485669   | 15.123 | ng    | 0.00     |
| 7) Phenol-d6                | 6.951  | 99   | 591964   | 14.815 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.928  | 82   | 330165   | 10.381 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.910 | 330  | 235153   | 15.298 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.033 | 172  | 764751   | 9.813  | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.780 | 244  | 971133   | 9.489  | ng    | -0.01    |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 14.133 | 152  | 429243   | 4.772  | ng    | 99       |
| 52) Acenaphthene            | 14.474 | 154  | 267496   | 4.676  | ng    | 99       |
| 55) Dibenzofuran            | 14.810 | 168  | 513818   | 5.372  | ng    | 99       |
| 58) Fluorene                | 15.463 | 166  | 920336   | 12.106 | ng    | 99       |
| 71) Phenanthrene            | 17.204 | 178  | 6951994  | 63.954 | ng    | 100      |
| 72) Anthracene              | 17.292 | 178  | 2448032  | 22.852 | ng    | 100      |
| 73) Carbazole               | 17.562 | 167  | 296212   | 2.936  | ng    | 99       |
| 75) Fluoranthene            | 19.221 | 202  | 10196518 | 76.289 | ng    | 98       |
| 78) Pyrene                  | 19.586 | 202  | 7882174  | 59.628 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.386 | 228  | 4255779  | 33.386 | ng    | 96       |
| 83) Chrysene                | 21.444 | 228  | 3308130  | 27.297 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 27.797 | 276  | 1734817  | 12.220 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 23.462 | 252  | 3946658  | 32.447 | ng    | 98       |
| 89) Benzo(k)fluoranthene    | 23.515 | 252  | 1471286m | 12.482 | ng    |          |
| 90) Benzo(a)pyrene          | 24.268 | 252  | 2952619  | 27.625 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 27.832 | 278  | 475734   | 4.068  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 28.850 | 276  | 1572216  | 13.158 | ng    | 98       |

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

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Sample : Q1832-37 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-07

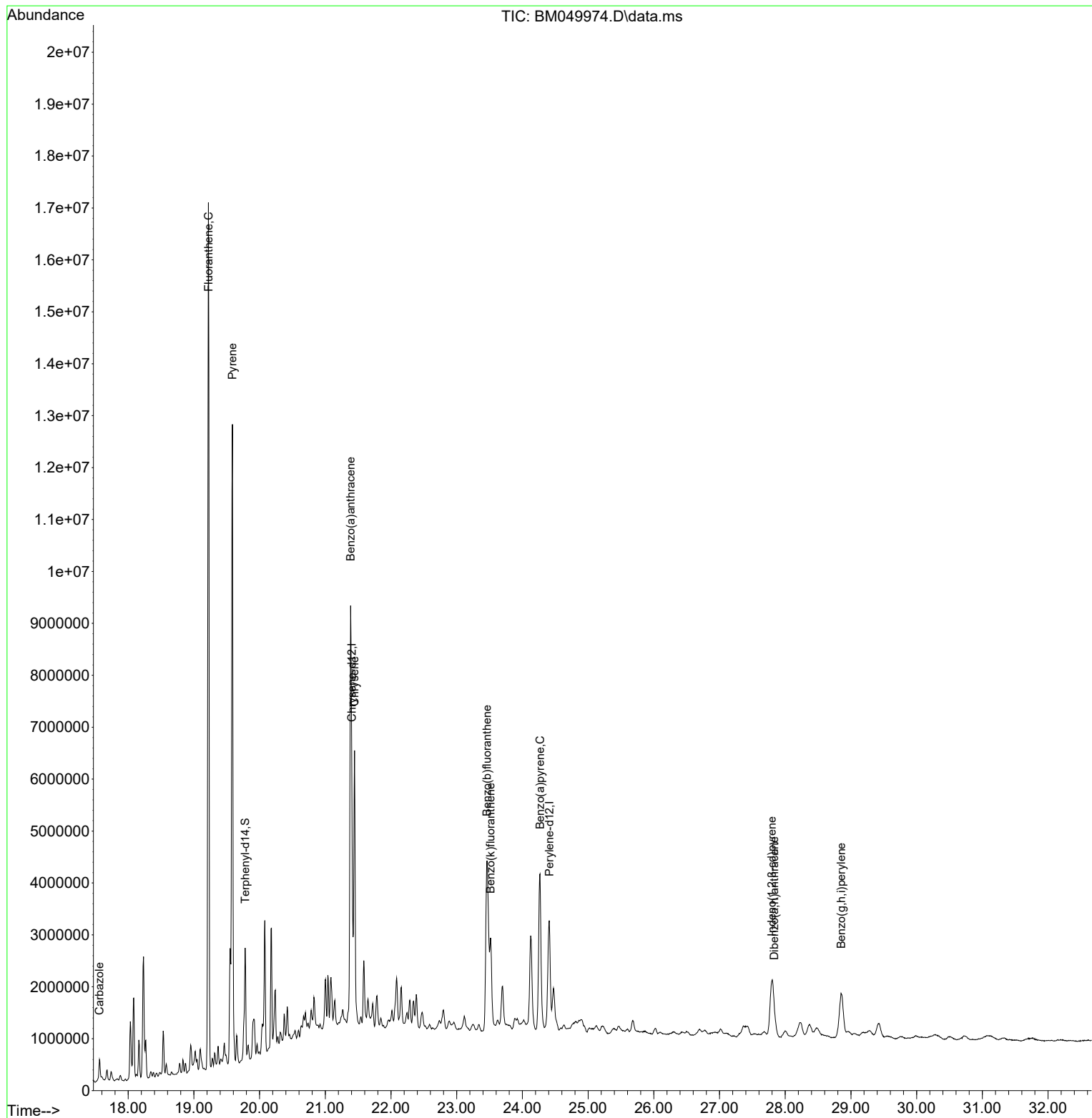
Quant Time: Apr 18 23:11:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 09 04:00:55 2025  
Response via : Initial Calibration

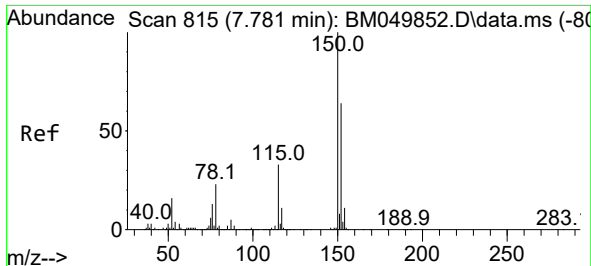


Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041825\  
Data File : BM049974.D  
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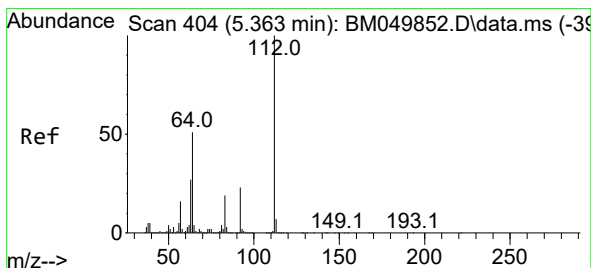
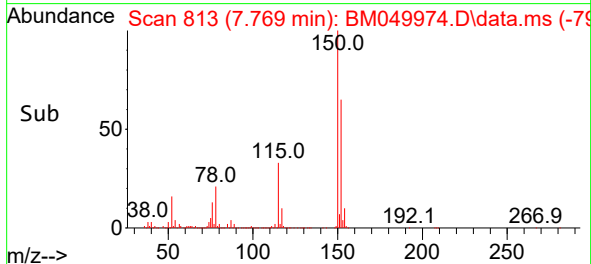
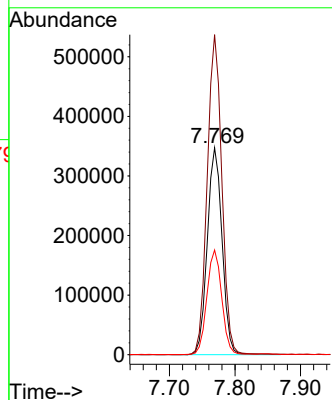
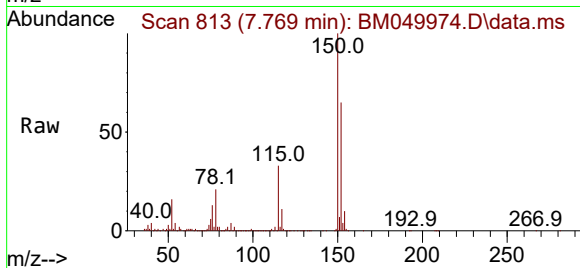




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.769 min Scan# 815  
Delta R.T. -0.012 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

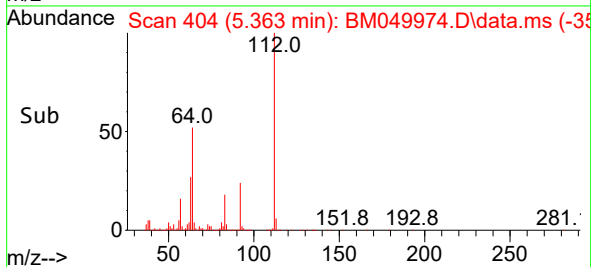
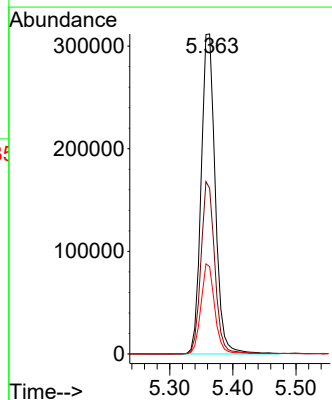
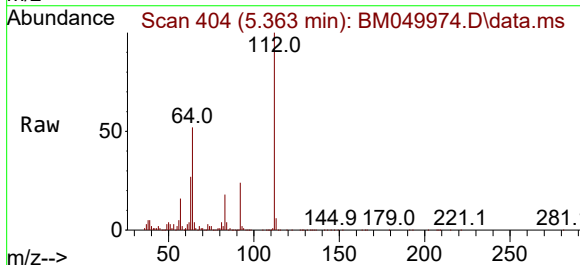
Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-07

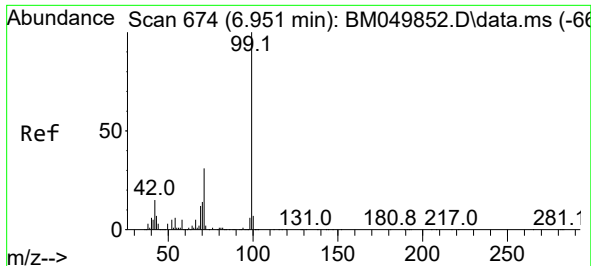
Tgt Ion:152 Resp: 545345  
Ion Ratio Lower Upper  
152 100  
150 154.7 124.3 186.5  
115 50.6 41.1 61.7



#5  
2-Fluorophenol  
Concen: 15.123 ng  
RT: 5.363 min Scan# 404  
Delta R.T. -0.000 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

Tgt Ion:112 Resp: 485669  
Ion Ratio Lower Upper  
112 100  
64 51.8 41.0 61.6  
63 27.3 21.5 32.3

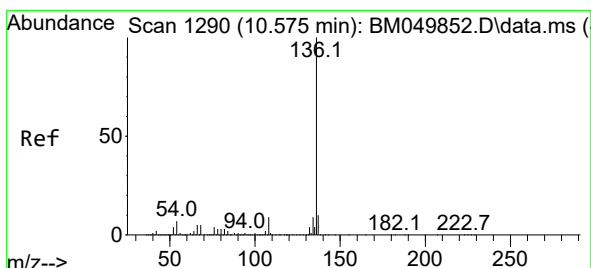
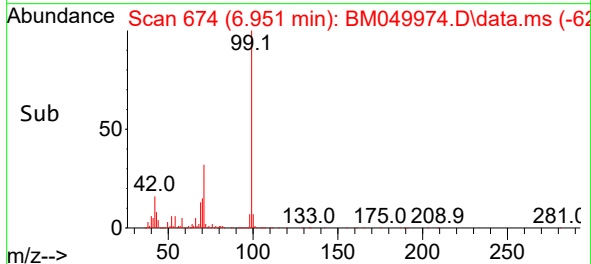
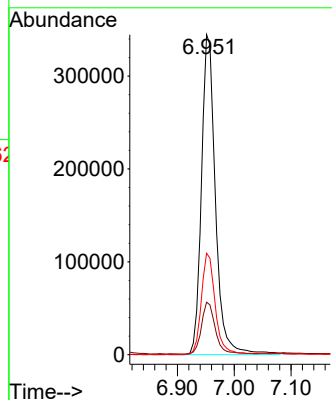
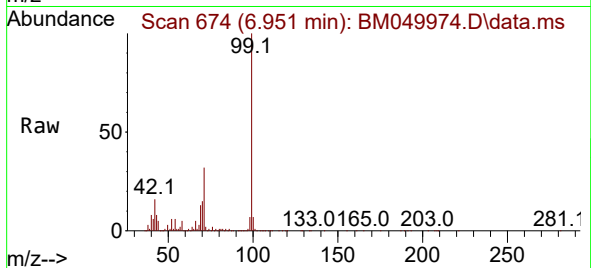




#7  
Phenol-d6  
Concen: 14.815 ng  
RT: 6.951 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

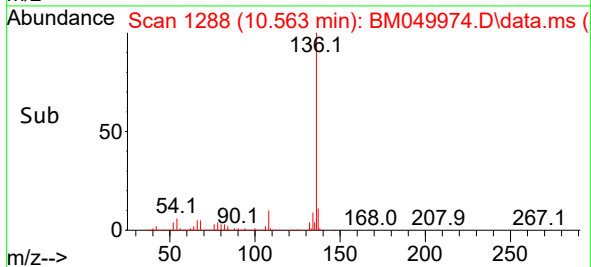
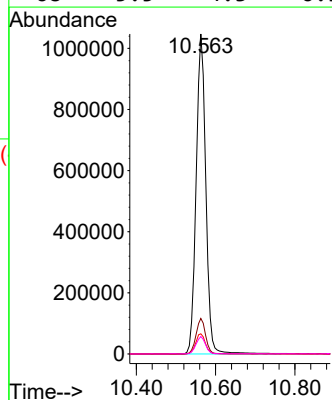
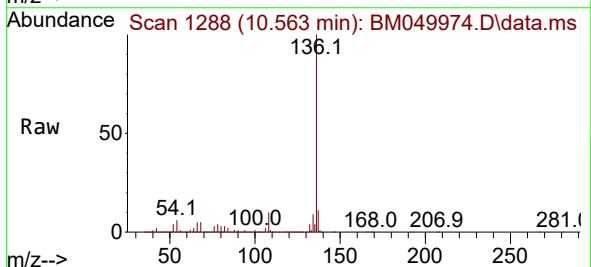
Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-07

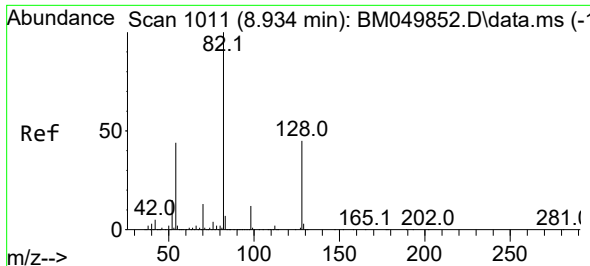
Tgt Ion: 99 Resp: 591964  
Ion Ratio Lower Upper  
99 100  
42 16.4 12.1 18.1  
71 31.7 24.9 37.3



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.563 min Scan# 1288  
Delta R.T. -0.012 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

Tgt Ion: 136 Resp: 1771085  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.4 12.6  
54 6.3 5.3 7.9  
68 5.5 4.3 6.5

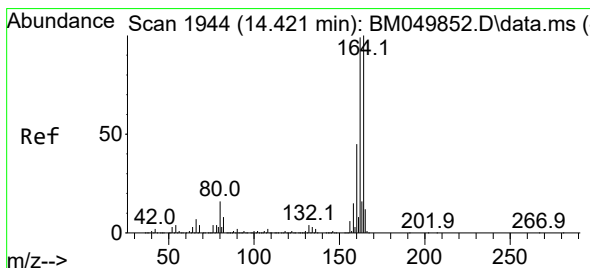
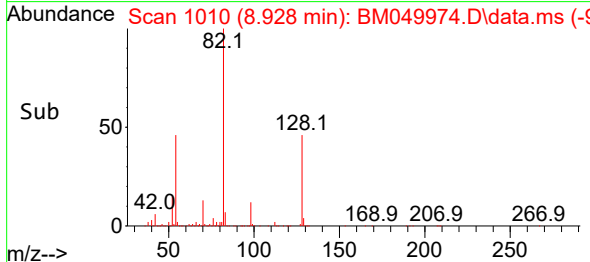
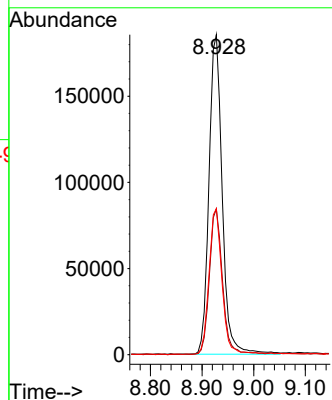
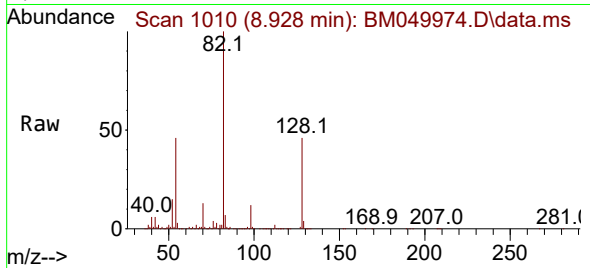




#23  
Nitrobenzene-d5  
Concen: 10.381 ng  
RT: 8.928 min Scan# 1010  
Delta R.T. -0.006 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

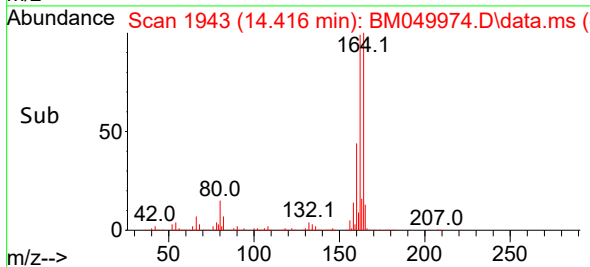
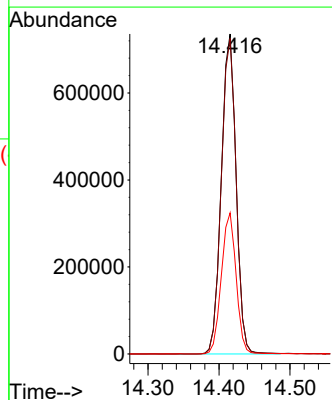
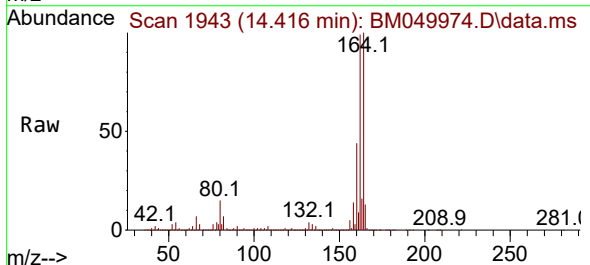
Instrument :  
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ClientSampleId :  
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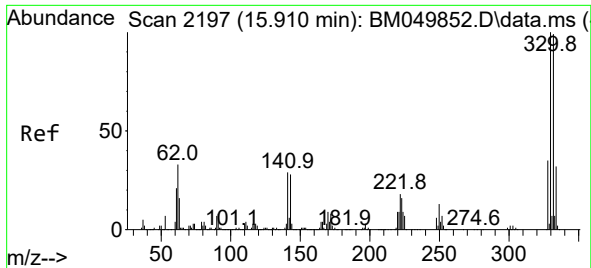
Tgt Ion: 82 Resp: 330165  
Ion Ratio Lower Upper  
82 100  
128 45.6 36.2 54.2  
54 45.7 35.0 52.6



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.416 min Scan# 1943  
Delta R.T. -0.006 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

Tgt Ion: 164 Resp: 1056809  
Ion Ratio Lower Upper  
164 100  
162 98.6 79.4 119.0  
160 44.1 36.2 54.2

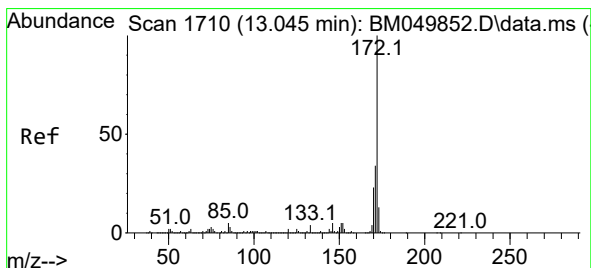
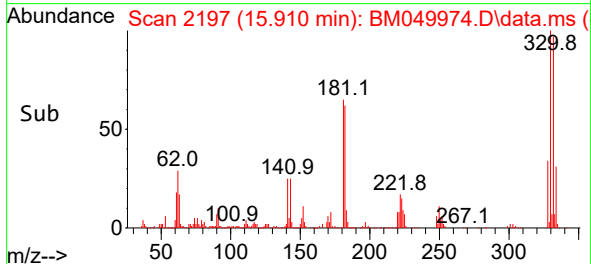
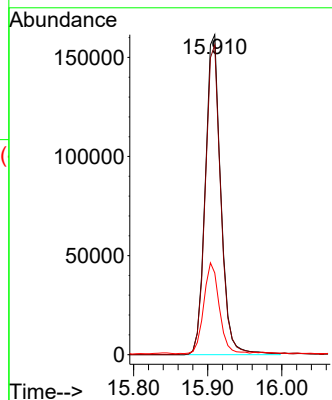
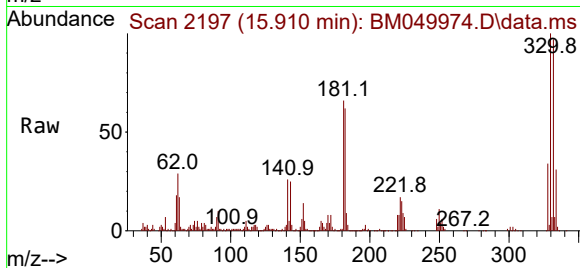




#42  
2,4,6-Tribromophenol  
Concen: 15.298 ng  
RT: 15.910 min Scan# 2197  
Delta R.T. -0.000 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

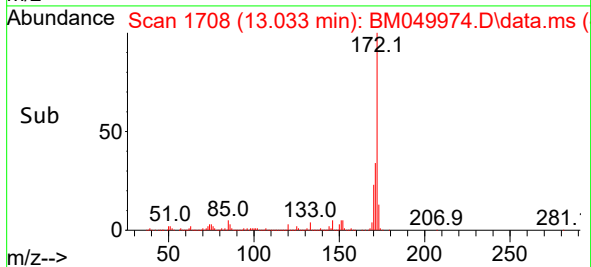
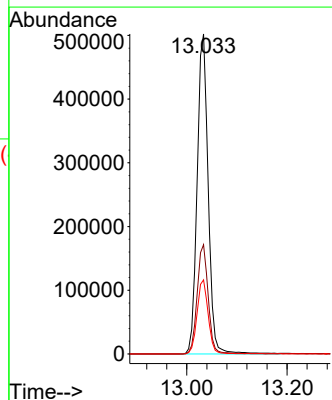
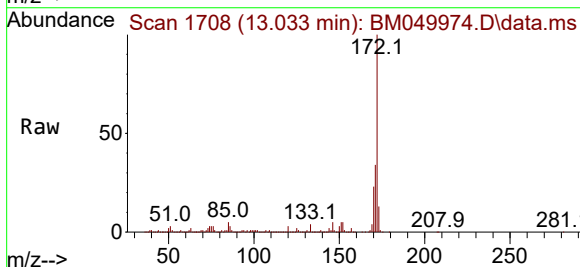
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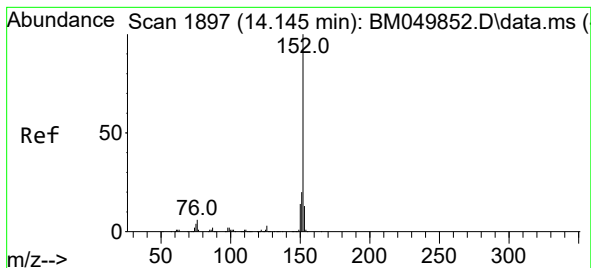
Tgt Ion:330 Resp: 235153  
Ion Ratio Lower Upper  
330 100  
332 96.6 78.0 117.0  
141 28.3 23.5 35.3



#45  
2-Fluorobiphenyl  
Concen: 9.813 ng  
RT: 13.033 min Scan# 1708  
Delta R.T. -0.012 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

Tgt Ion:172 Resp: 764751  
Ion Ratio Lower Upper  
172 100  
171 34.2 27.4 41.2  
170 23.2 18.6 28.0





#49

Acenaphthylene

Concen: 4.772 ng

RT: 14.133 min Scan# 1895

Delta R.T. -0.012 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-07

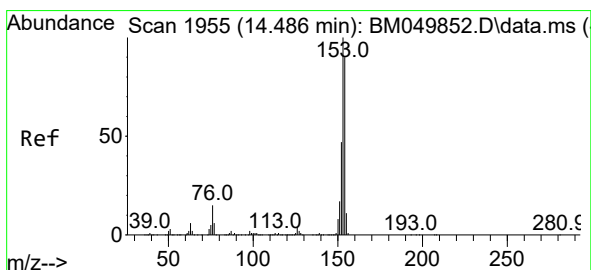
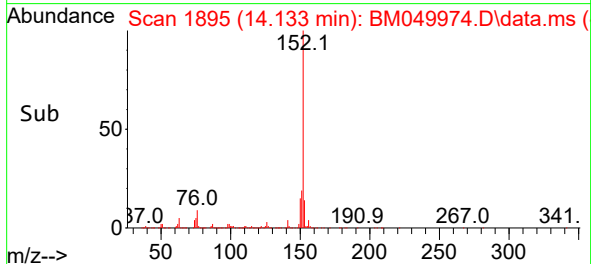
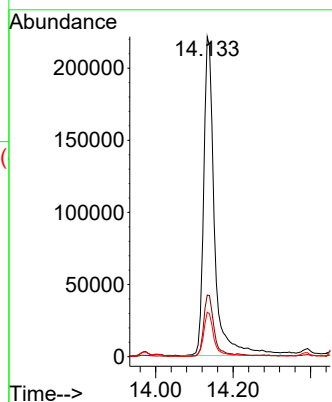
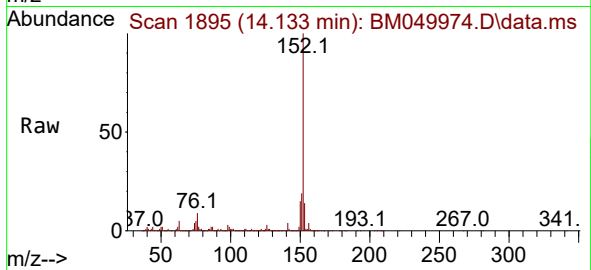
Tgt Ion:152 Resp: 429243

Ion Ratio Lower Upper

152 100

151 19.3 15.7 23.5

153 13.9 10.4 15.6



#52

Acenaphthene

Concen: 4.676 ng

RT: 14.474 min Scan# 1953

Delta R.T. -0.012 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

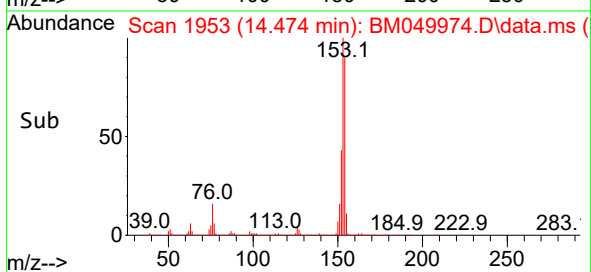
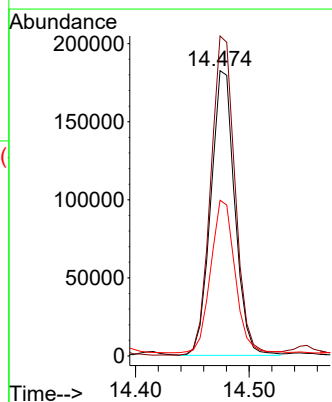
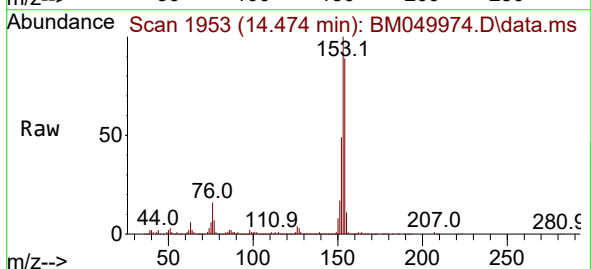
Tgt Ion:154 Resp: 267496

Ion Ratio Lower Upper

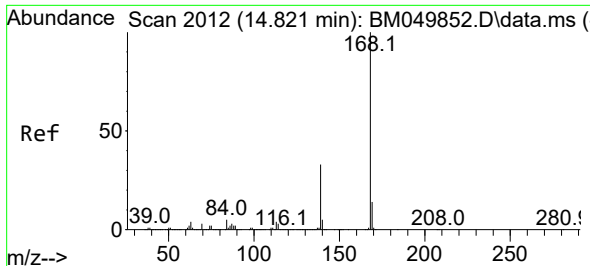
154 100

153 112.2 89.3 133.9

152 54.6 42.2 63.2



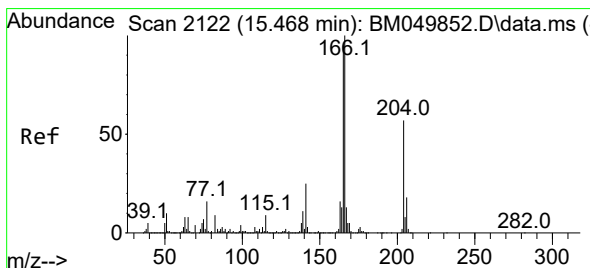
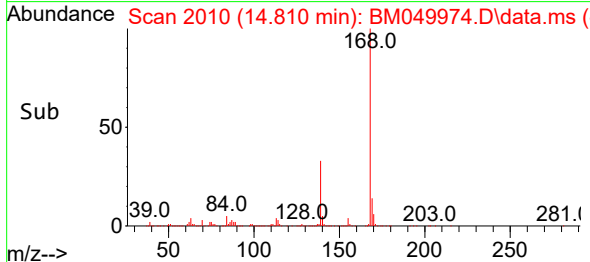
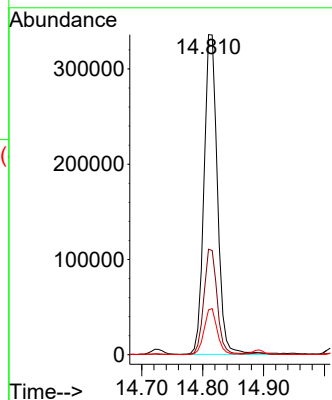
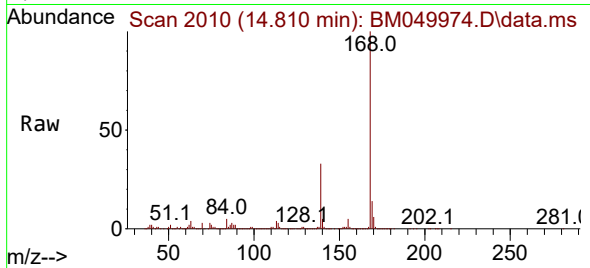




#55  
Dibenzenofuran  
Concen: 5.372 ng  
RT: 14.810 min Scan# 2012  
Delta R.T. -0.012 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

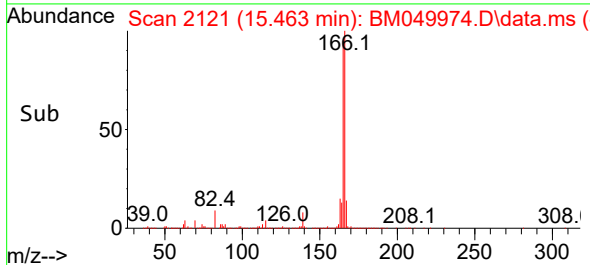
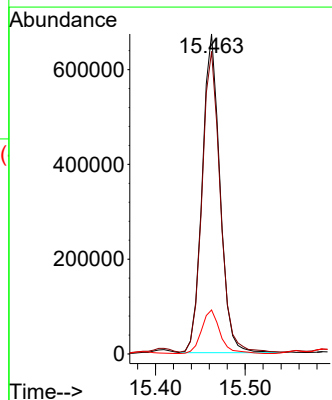
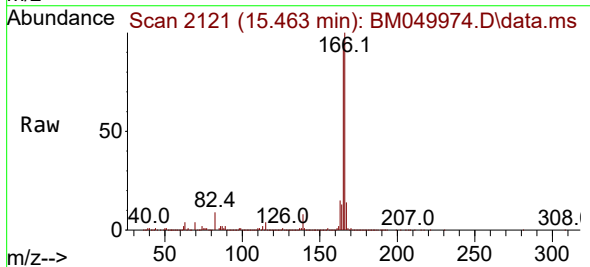
Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-07

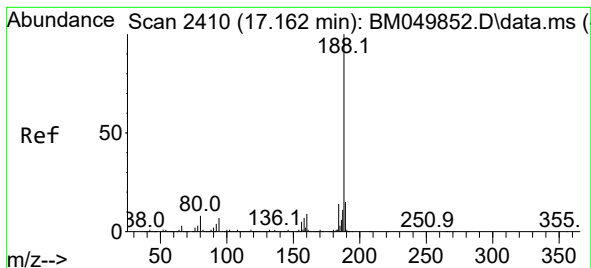
Tgt Ion:168 Resp: 513818  
Ion Ratio Lower Upper  
168 100  
139 32.9 26.6 39.8  
169 14.0 11.0 16.4



#58  
Fluorene  
Concen: 12.106 ng  
RT: 15.463 min Scan# 2121  
Delta R.T. -0.006 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

Tgt Ion:166 Resp: 920336  
Ion Ratio Lower Upper  
166 100  
165 94.5 76.3 114.5  
167 13.7 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.157 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-07

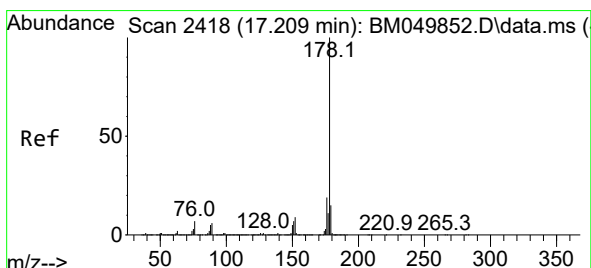
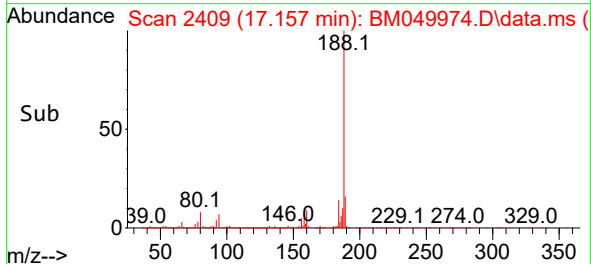
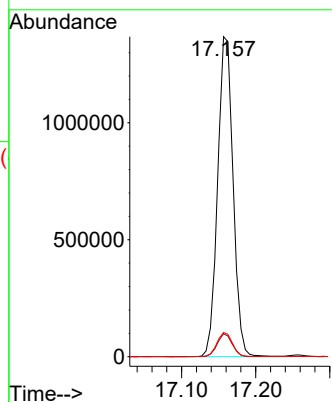
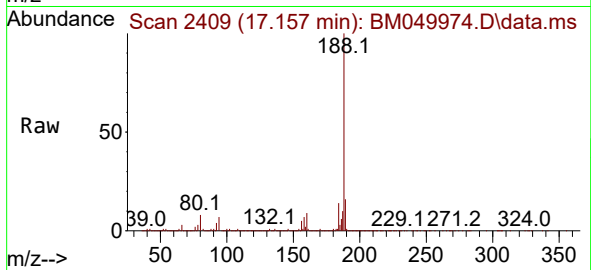
Tgt Ion:188 Resp: 1982779

Ion Ratio Lower Upper

188 100

94 7.2 5.8 8.6

80 7.6 6.4 9.6



#71

Phenanthrene

Concen: 63.954 ng

RT: 17.204 min Scan# 2417

Delta R.T. -0.006 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

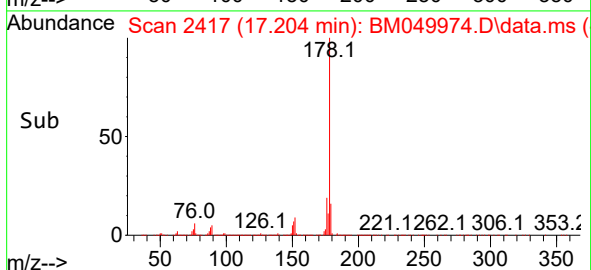
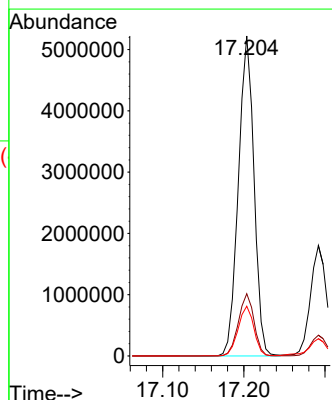
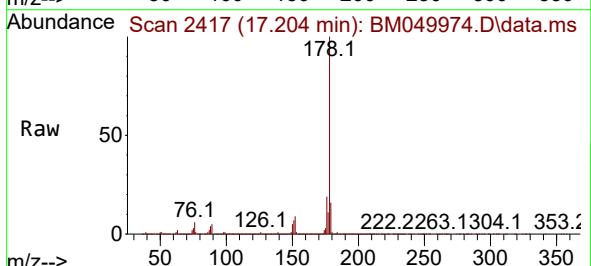
Tgt Ion:178 Resp: 6951994

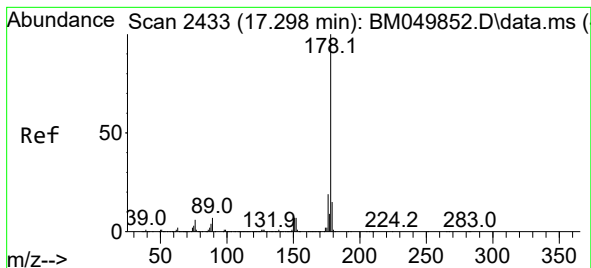
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.5 12.3 18.5





#72

Anthracene

Concen: 22.852 ng

RT: 17.292 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-07

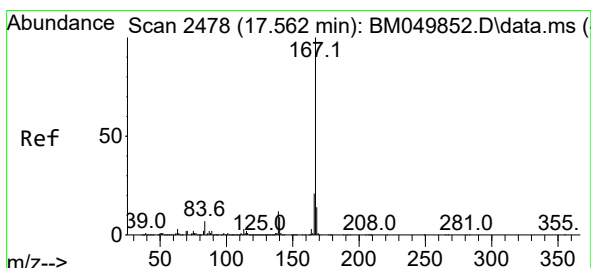
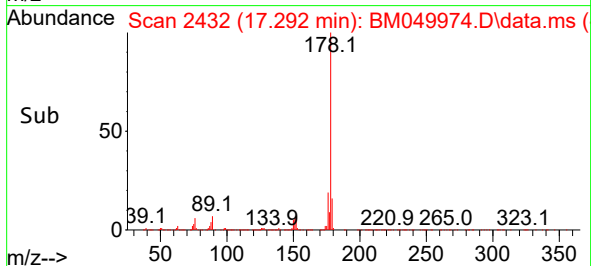
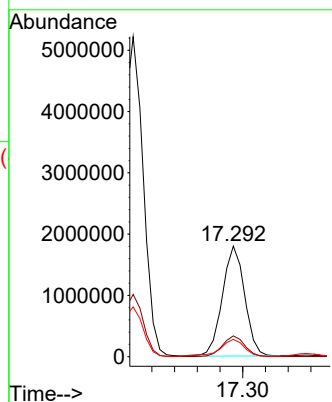
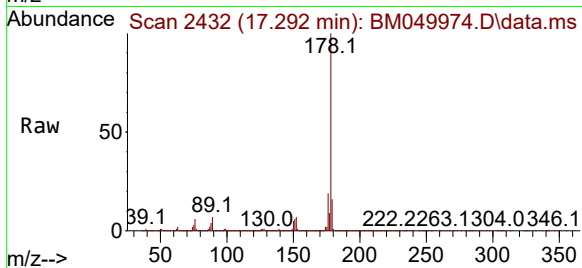
Tgt Ion:178 Resp: 2448032

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.7 12.4 18.6



#73

Carbazole

Concen: 2.936 ng

RT: 17.562 min Scan# 2478

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

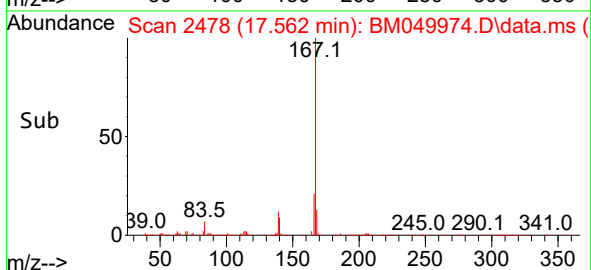
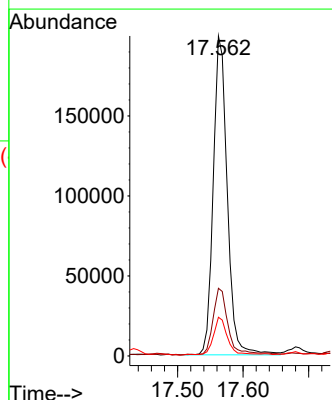
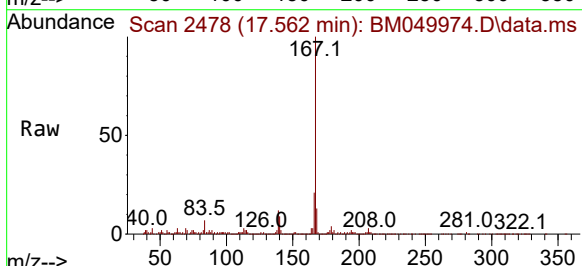
Tgt Ion:167 Resp: 296212

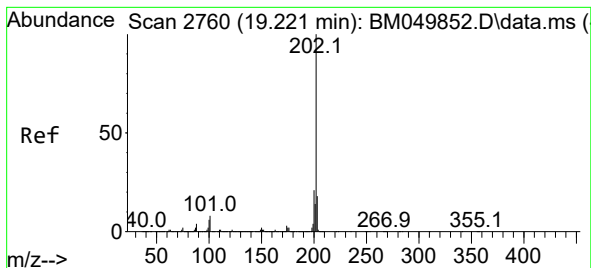
Ion Ratio Lower Upper

167 100

166 21.1 16.9 25.3

139 12.1 9.3 13.9





#75

Fluoranthene

Concen: 76.289 ng

RT: 19.221 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-07

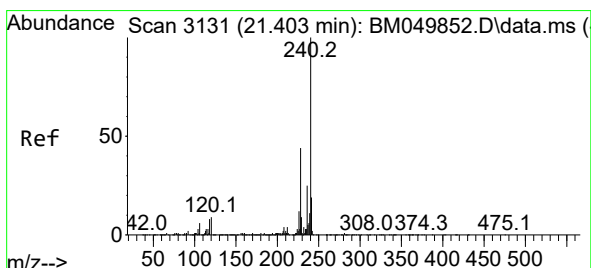
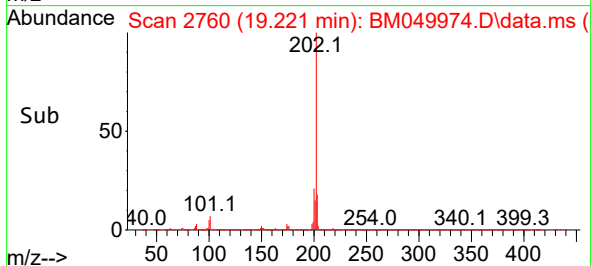
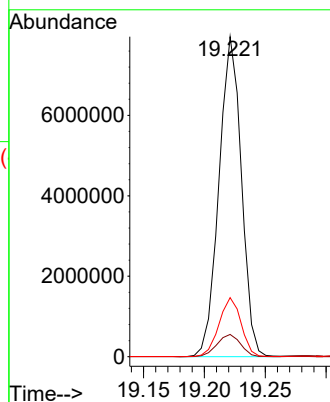
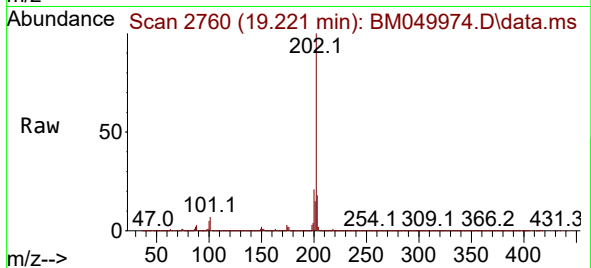
Tgt Ion:202 Resp:10196518

Ion Ratio Lower Upper

202 100

101 7.0 0.0 28.4

203 18.5 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.403 min Scan# 3131

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

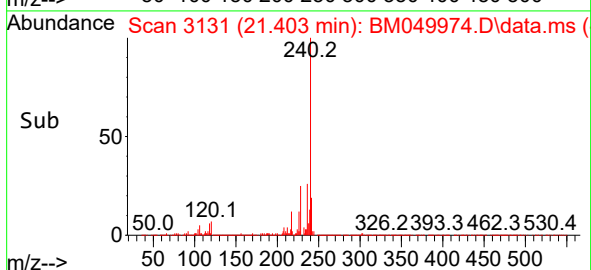
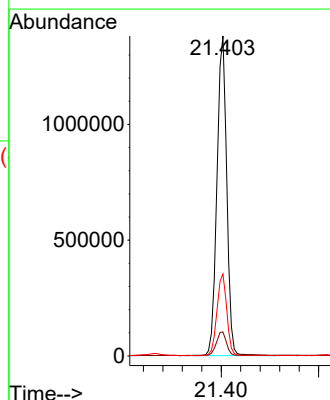
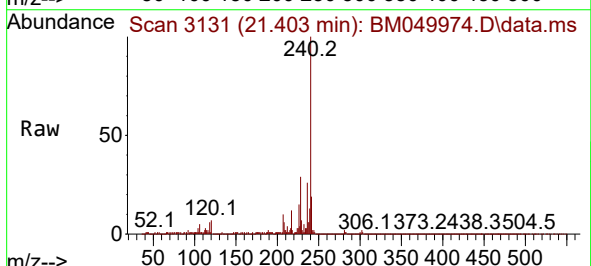
Tgt Ion:240 Resp: 1918056

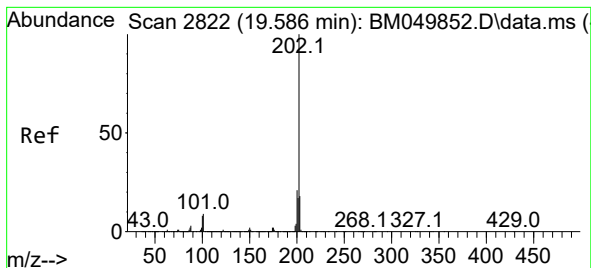
Ion Ratio Lower Upper

240 100

120 7.5 6.9 10.3

236 25.7 20.4 30.6





#78

Pyrene

Concen: 59.628 ng

RT: 19.586 min Scan# 2822

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-07

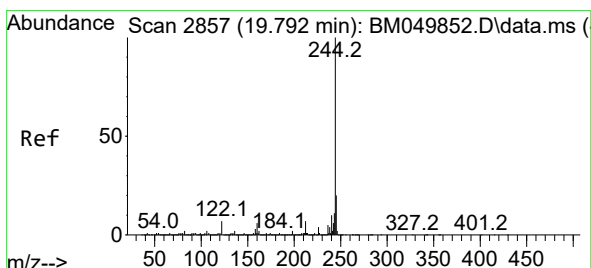
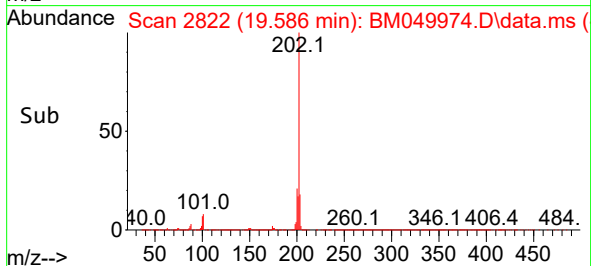
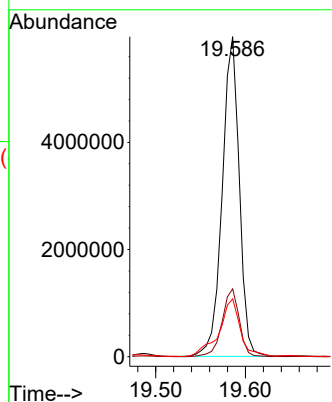
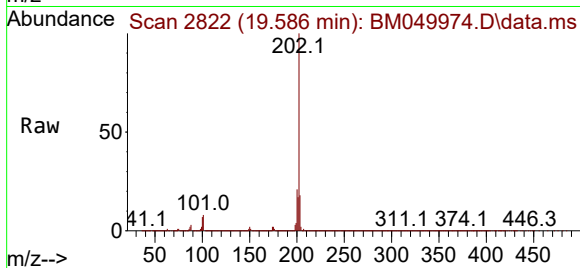
Tgt Ion:202 Resp: 7882174

Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

203 18.1 14.0 21.0



#79

Terphenyl-d14

Concen: 9.489 ng

RT: 19.780 min Scan# 2855

Delta R.T. -0.012 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

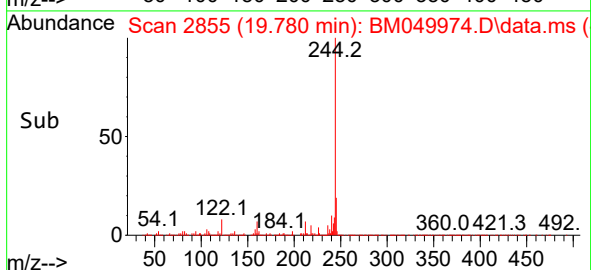
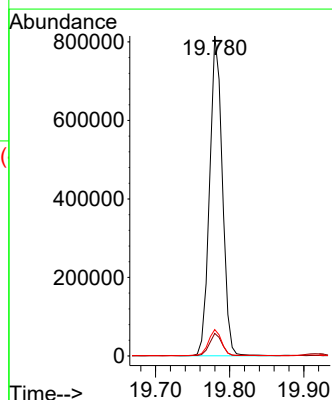
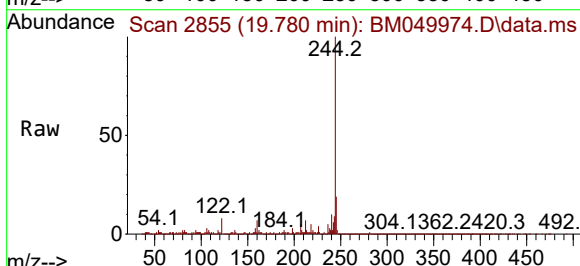
Tgt Ion:244 Resp: 971133

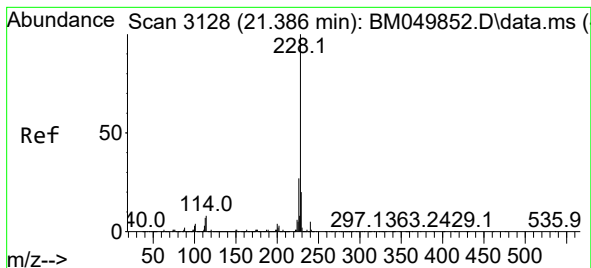
Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

122 8.2 5.4 8.0#





#81

Benzo(a)anthracene

Concen: 33.386 ng

RT: 21.386 min Scan# 3128

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-07

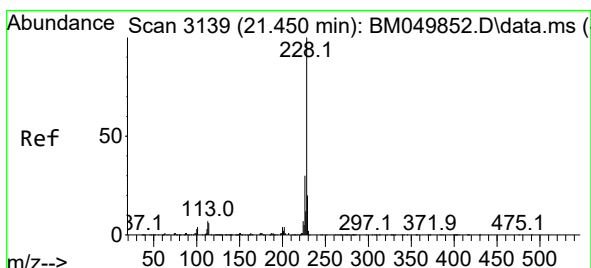
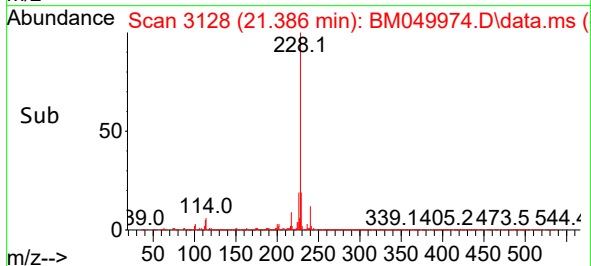
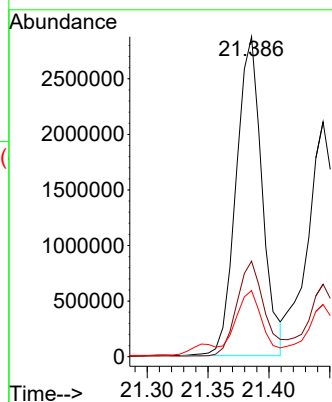
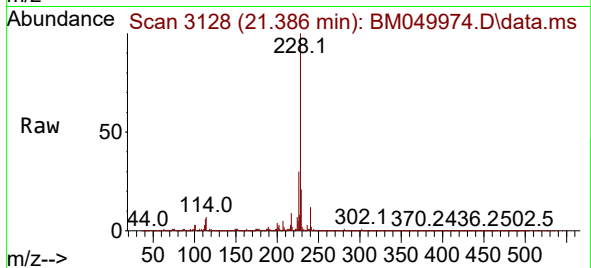
Tgt Ion:228 Resp: 4255779

Ion Ratio Lower Upper

228 100

226 29.9 21.8 32.8

229 20.6 15.8 23.8



#83

Chrysene

Concen: 27.297 ng

RT: 21.444 min Scan# 3138

Delta R.T. -0.006 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

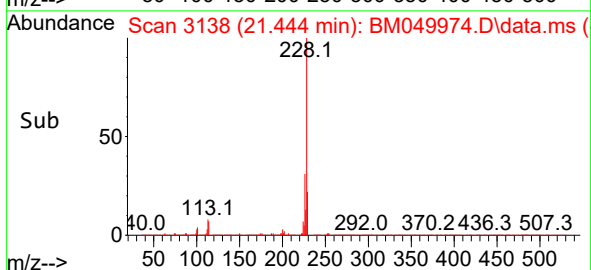
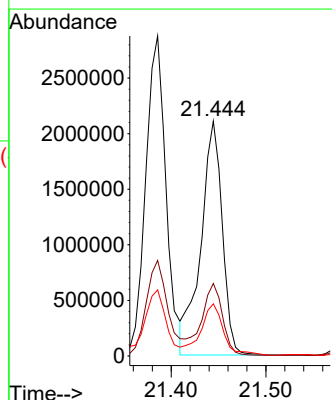
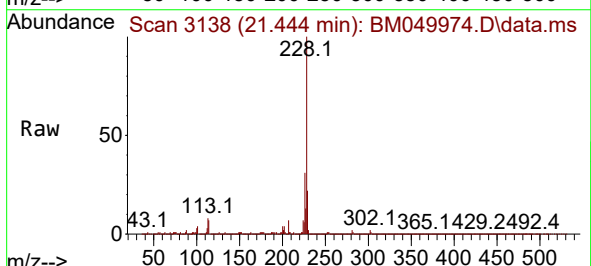
Tgt Ion:228 Resp: 3308130

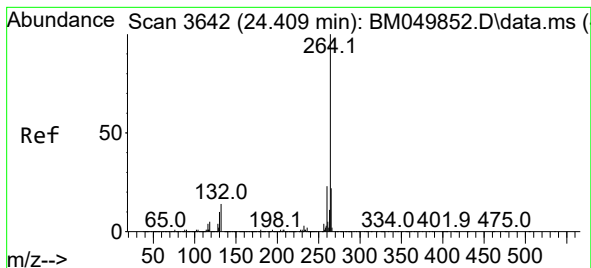
Ion Ratio Lower Upper

228 100

226 30.9 24.1 36.1

229 22.2 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.409 min Scan# 3

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-07

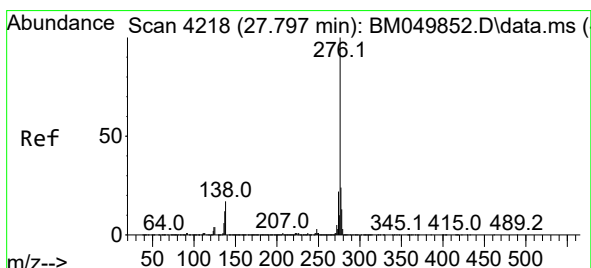
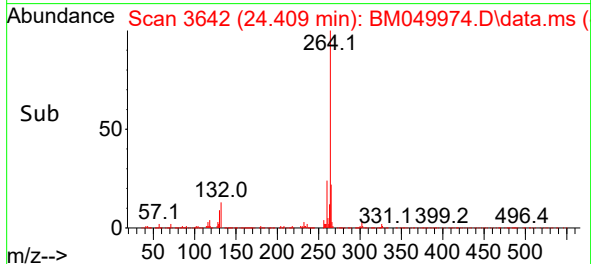
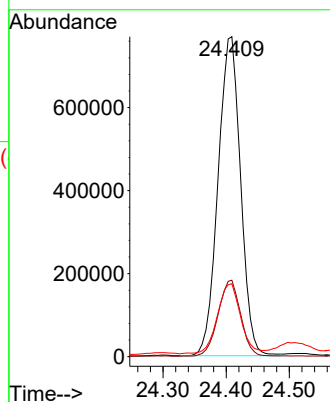
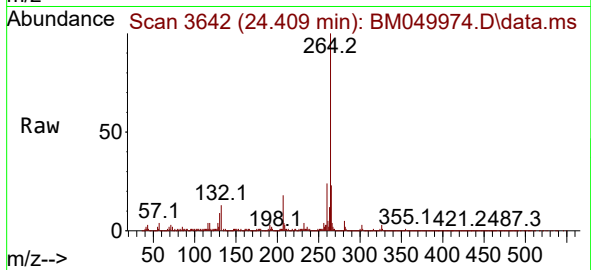
Tgt Ion:264 Resp: 1904503

Ion Ratio Lower Upper

264 100

260 23.9 18.6 28.0

265 22.8 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 12.220 ng

RT: 27.797 min Scan# 4218

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

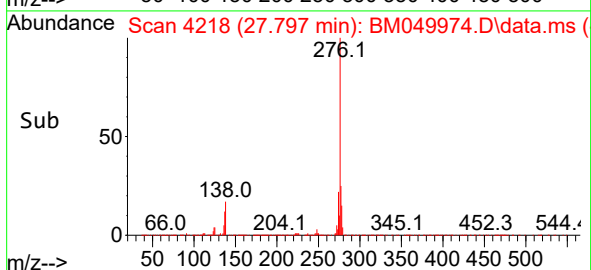
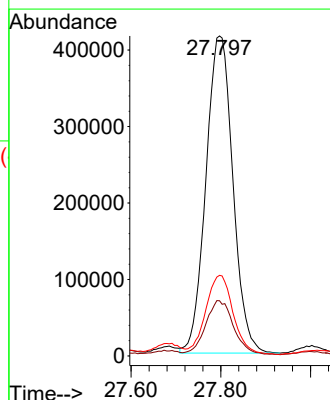
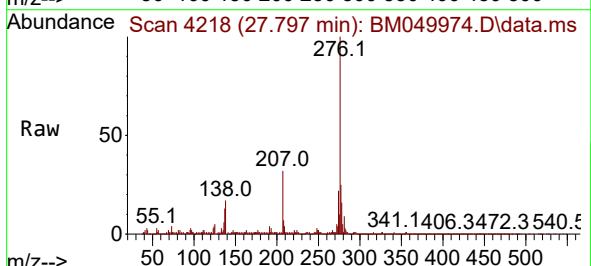
Tgt Ion:276 Resp: 1734817

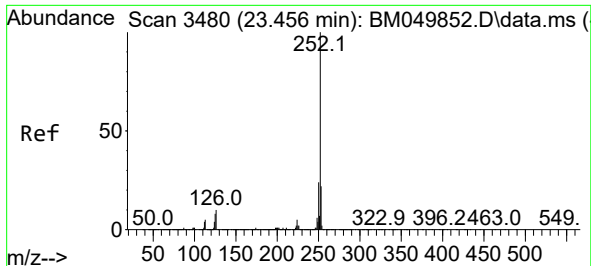
Ion Ratio Lower Upper

276 100

138 17.7 16.8 25.2

277 25.4 20.1 30.1

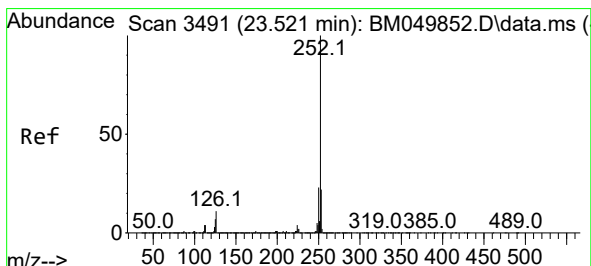
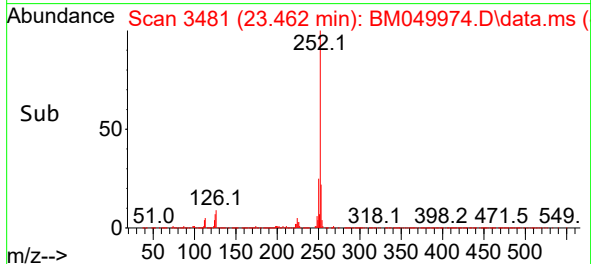
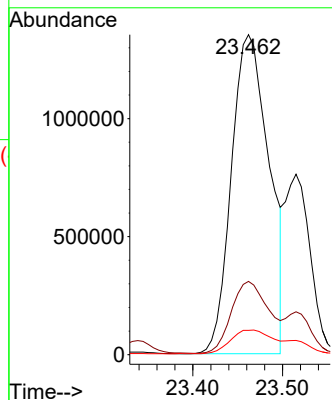
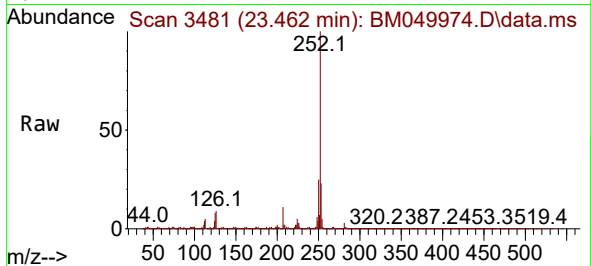




#88  
Benzo(b)fluoranthene  
Concen: 32.447 ng  
RT: 23.462 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

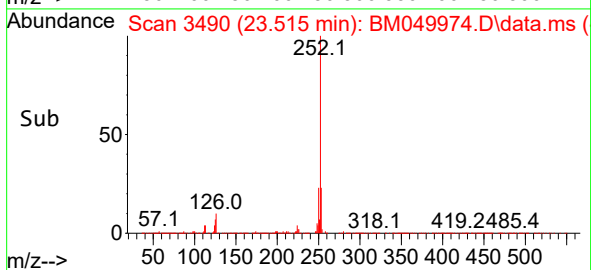
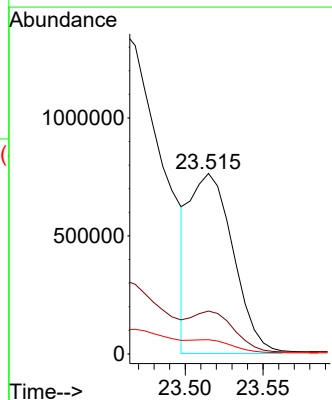
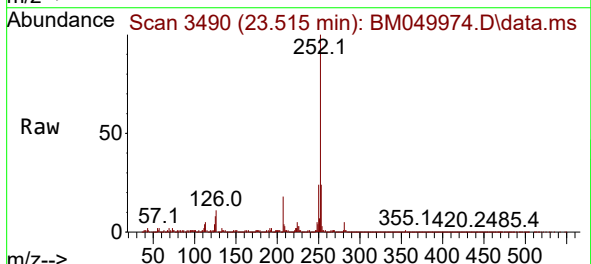
Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-07

Tgt Ion:252 Resp: 3946658  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.5 26.3  
125 7.6 6.2 9.4

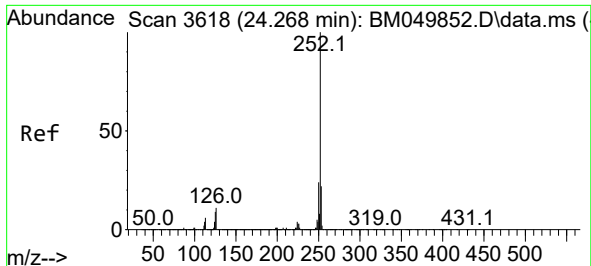


#89  
Benzo(k)fluoranthene  
Concen: 12.482 ng m  
RT: 23.515 min Scan# 3490  
Delta R.T. -0.006 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

Tgt Ion:252 Resp: 1471286  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.4 26.2  
125 7.9 5.8 8.8



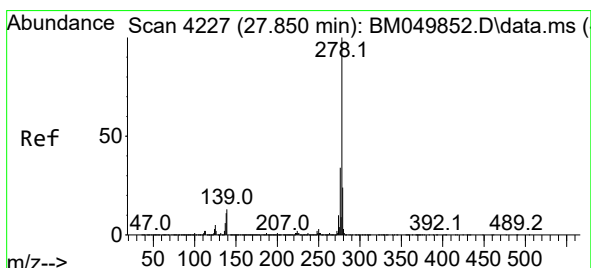
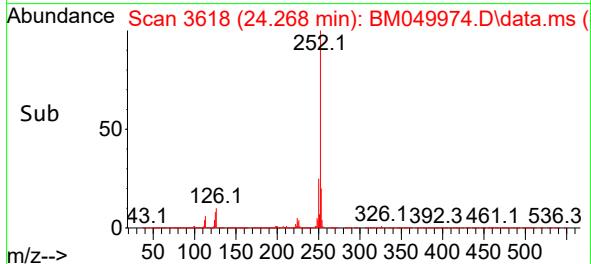
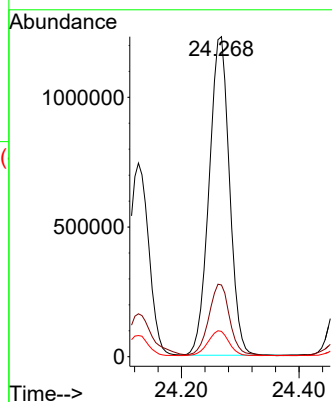
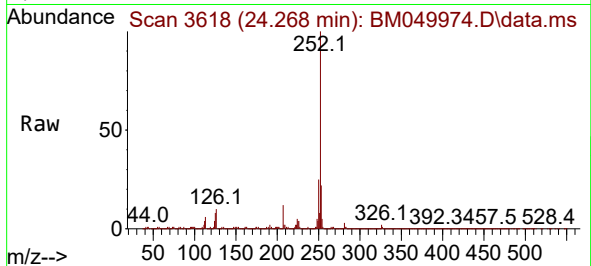




#90  
Benzo(a)pyrene  
Concen: 27.625 ng  
RT: 24.268 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

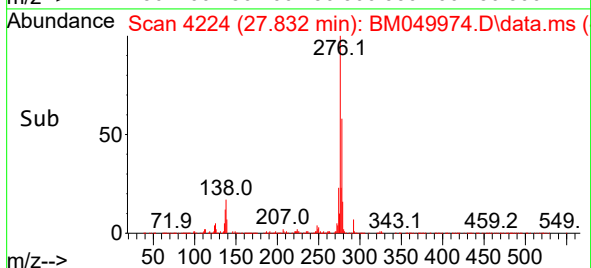
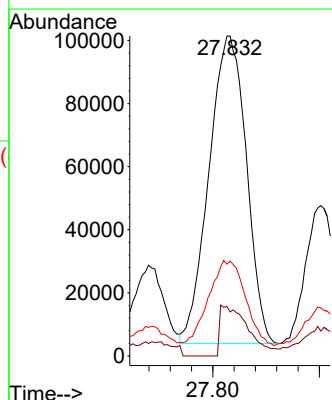
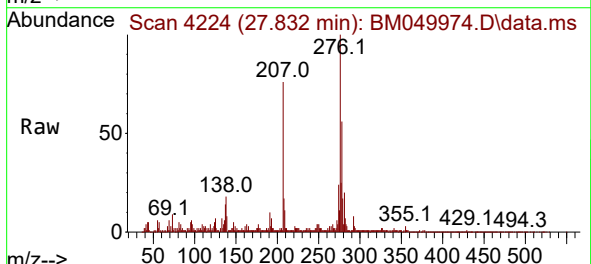
Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-07

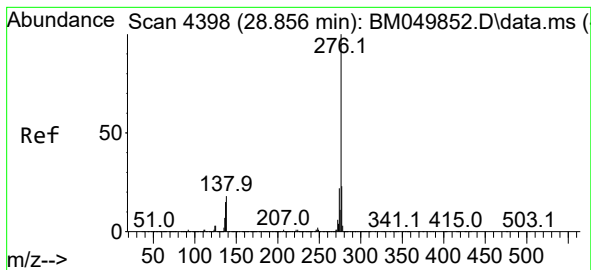
Tgt Ion:252 Resp: 2952619  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.8 26.8  
125 7.9 7.0 10.4



#91  
Dibenzo(a,h)anthracene  
Concen: 4.068 ng  
RT: 27.832 min Scan# 4224  
Delta R.T. -0.018 min  
Lab File: BM049974.D  
Acq: 18 Apr 2025 20:22

Tgt Ion:278 Resp: 475734  
Ion Ratio Lower Upper  
278 100  
139 13.7 10.6 15.8  
279 29.7 19.1 28.7#





#92  
 Benzo(g,h,i)perylene  
 Concen: 13.158 ng  
 RT: 28.850 min Scan# 41  
 Delta R.T. -0.006 min  
 Lab File: BM049974.D  
 Acq: 18 Apr 2025 20:22

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PL-714-COMP-07

Tgt Ion:276 Resp: 1572216  
 Ion Ratio Lower Upper  
 276 100  
 277 24.5 18.7 28.1  
 138 17.6 14.6 21.8

