

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP082825\  
 Data File : BP025616.D  
 Acq On : 28 Aug 2025 18:01  
 Operator : CG/JU  
 Sample : Q2970-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 TP10

Quant Time: Aug 29 02:27:22 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP081425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 14 18:14:31 2025  
 Response via : Initial Calibration

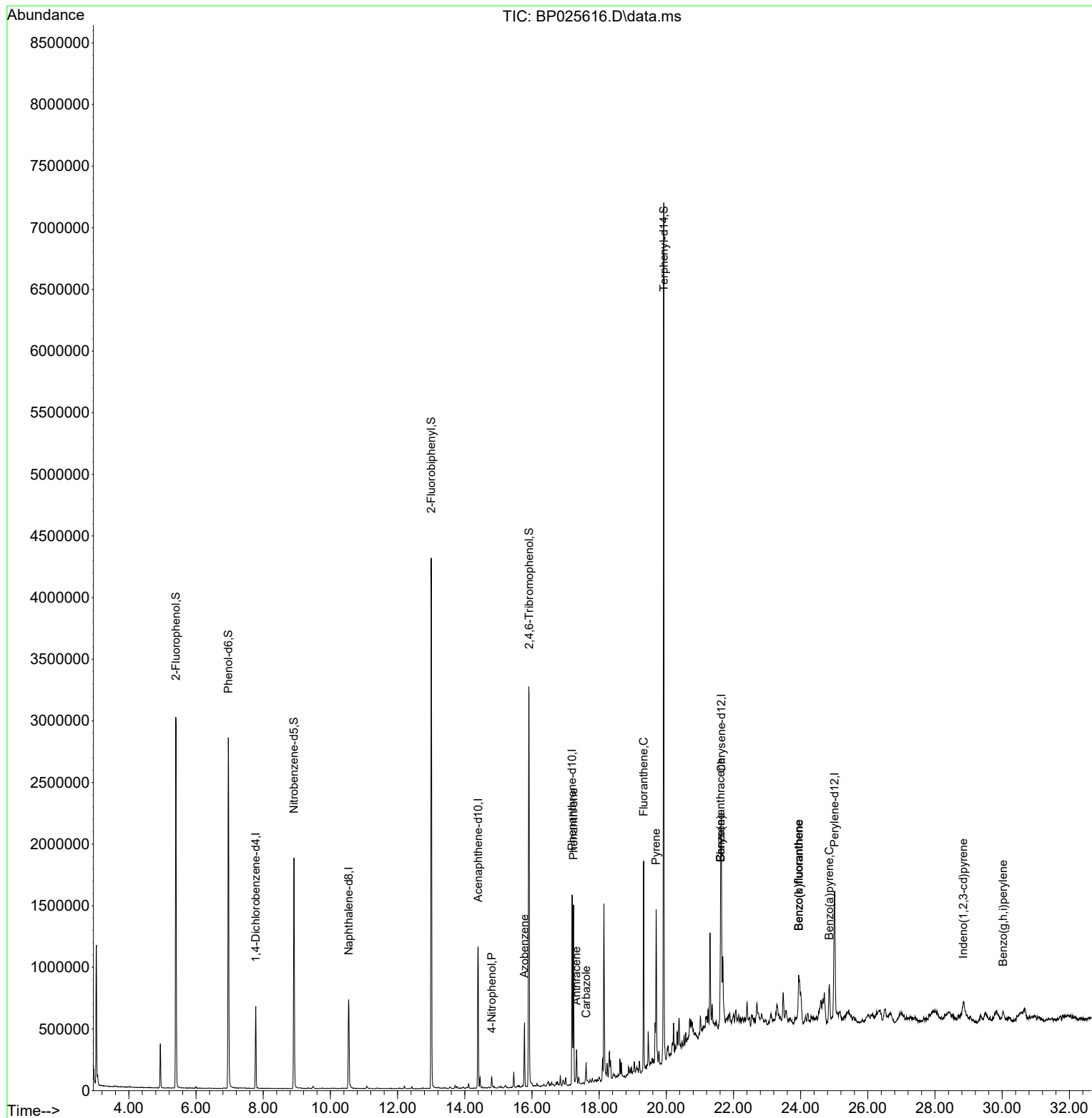
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.778  | 152  | 177281   | 20.000  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.543 | 136  | 704298   | 20.000  | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.396 | 164  | 438397   | 20.000  | ng    | -0.01    |
| 64) Phenanthrene-d10        | 17.195 | 188  | 875597   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.636 | 240  | 979372   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12            | 25.007 | 264  | 1121426  | 20.000  | ng    | -0.02    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.402  | 112  | 1371737  | 128.499 | ng    | 0.00     |
| 7) Phenol-d6                | 6.961  | 99   | 1704841  | 124.565 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.913  | 82   | 1098888  | 78.927  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.913 | 330  | 768581   | 130.249 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.001 | 172  | 2276560  | 70.971  | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.925 | 244  | 3441124  | 64.284  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 56) 4-Nitrophenol           | 14.801 | 139  | 21083    | 3.370   | ng    | # 10     |
| 63) Azobenzene              | 15.778 | 77   | 137371   | 4.918   | ng    | # 1      |
| 71) Phenanthrene            | 17.237 | 178  | 833030   | 17.319  | ng    | 100      |
| 72) Anthracene              | 17.325 | 178  | 193641   | 3.942   | ng    | 97       |
| 73) Carbazole               | 17.613 | 167  | 99355    | 2.147   | ng    | 98       |
| 75) Fluoranthene            | 19.325 | 202  | 933789   | 16.275  | ng    | 98       |
| 78) Pyrene                  | 19.695 | 202  | 769476   | 12.088  | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.613 | 228  | 452117   | 7.000   | ng    | 99       |
| 83) Chrysene                | 21.613 | 228  | 452117   | 7.474   | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 28.842 | 276  | 184270   | 2.241   | ng    | # 91     |
| 88) Benzo(b)fluoranthene    | 23.942 | 252  | 435135   | 6.580   | ng    | 96       |
| 89) Benzo(k)fluoranthene    | 23.942 | 252  | 435572   | 6.582   | ng    | 95       |
| 90) Benzo(a)pyrene          | 24.854 | 252  | 325291   | 5.053   | ng    | # 95     |
| 92) Benzo(g,h,i)perylene    | 30.024 | 276  | 151334   | 2.291   | ng    | 98       |
| -----                       |        |      |          |         |       |          |

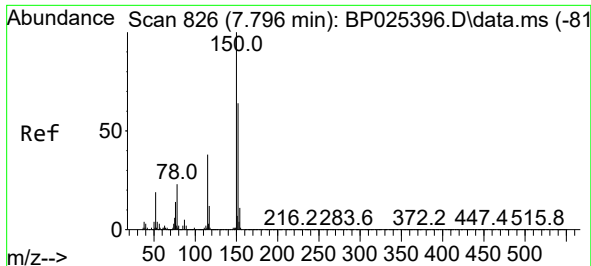
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP082825\  
Data File : BP025616.D  
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Sample : Q2970-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP10

Quant Time: Aug 29 02:27:22 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP081425.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 14 18:14:31 2025  
Response via : Initial Calibration

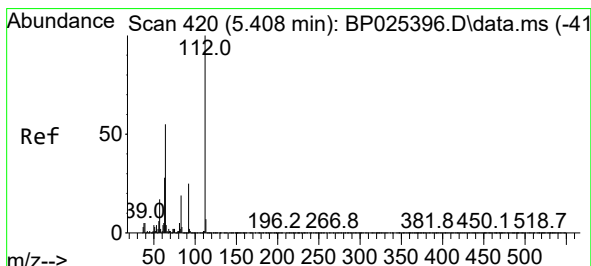
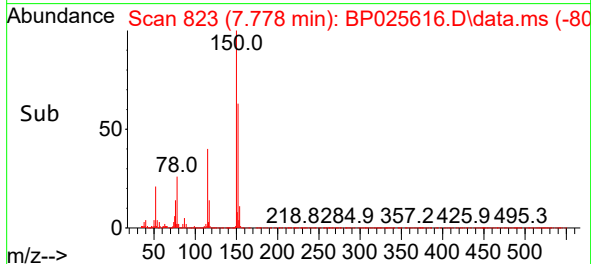
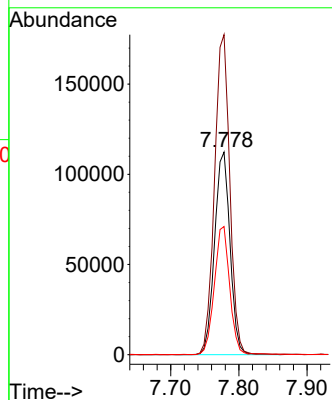
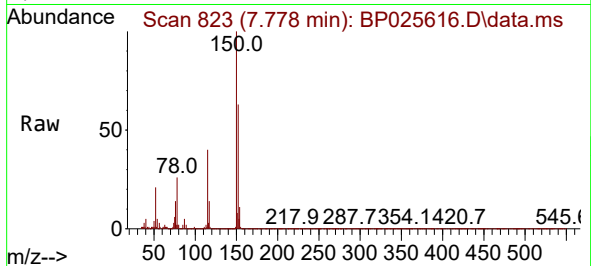




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.778 min Scan# 81  
Delta R.T. -0.018 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

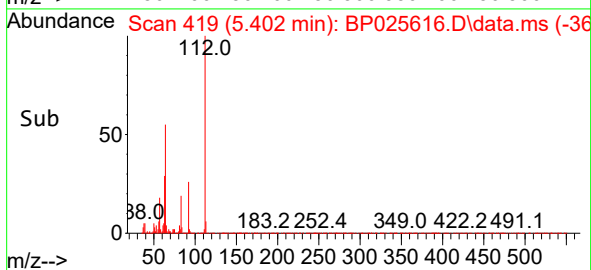
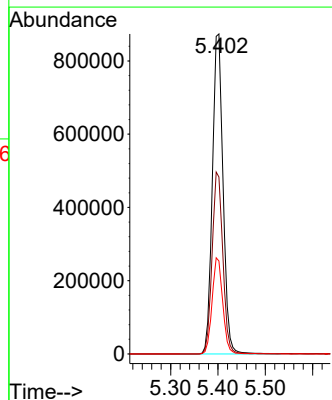
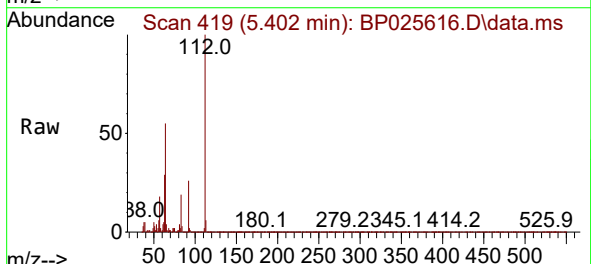
Instrument :  
BNA\_P  
ClientSampleId :  
TP10

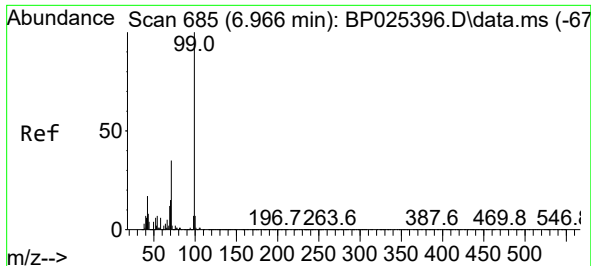
Tgt Ion:152 Resp: 177281  
Ion Ratio Lower Upper  
152 100  
150 158.0 125.9 188.9  
115 63.3 48.5 72.7



#5  
2-Fluorophenol  
Concen: 128.499 ng  
RT: 5.402 min Scan# 419  
Delta R.T. -0.006 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

Tgt Ion:112 Resp: 1371737  
Ion Ratio Lower Upper  
112 100  
64 55.3 43.8 65.8  
63 29.0 22.7 34.1

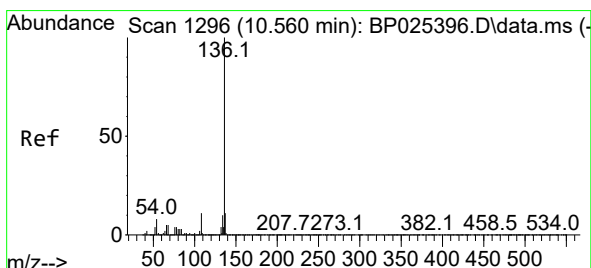
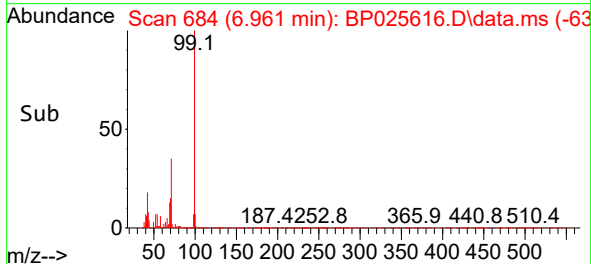
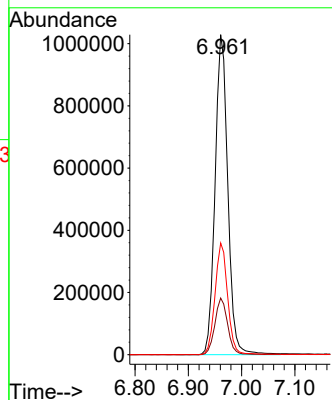
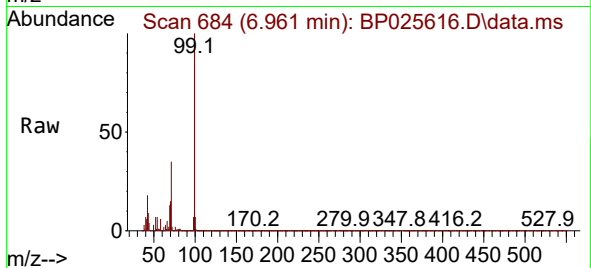




#7  
Phenol-d6  
Concen: 124.565 ng  
RT: 6.961 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

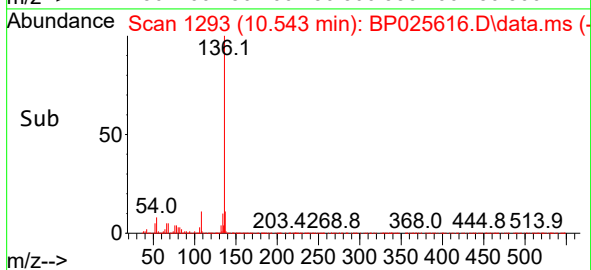
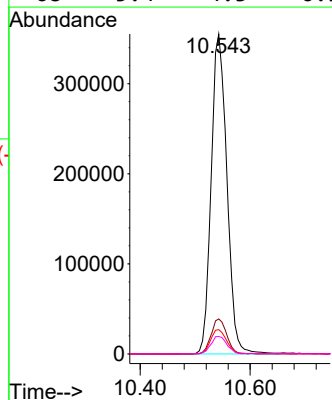
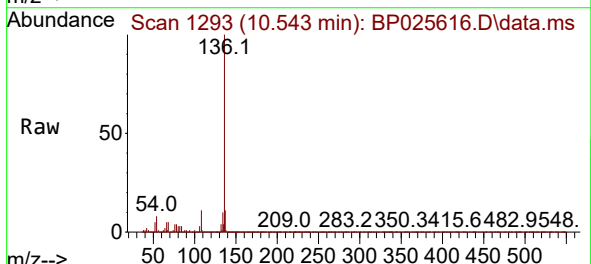
Instrument :  
BNA\_P  
ClientSampleId :  
TP10

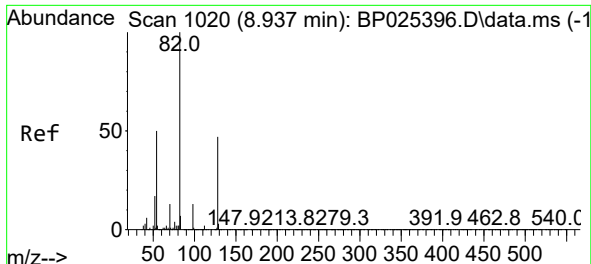
Tgt Ion: 99 Resp: 1704841  
Ion Ratio Lower Upper  
99 100  
42 17.7 13.7 20.5  
71 34.9 28.2 42.4



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.543 min Scan# 1293  
Delta R.T. -0.017 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

Tgt Ion: 136 Resp: 704298  
Ion Ratio Lower Upper  
136 100  
137 11.0 9.2 13.8  
54 7.6 6.0 9.0  
68 5.4 4.3 6.5

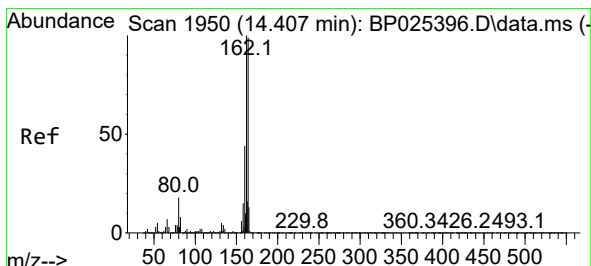
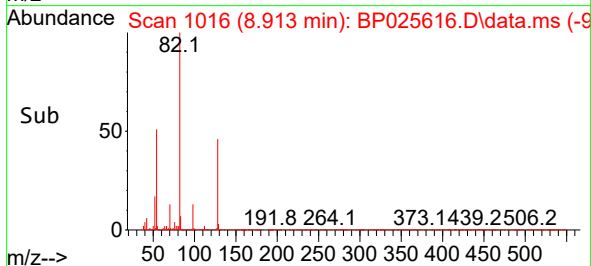
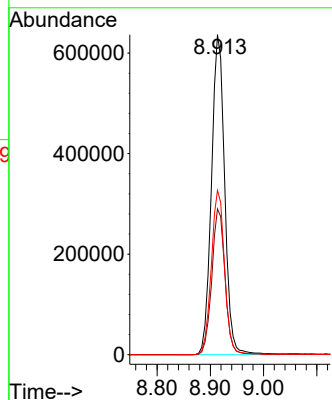
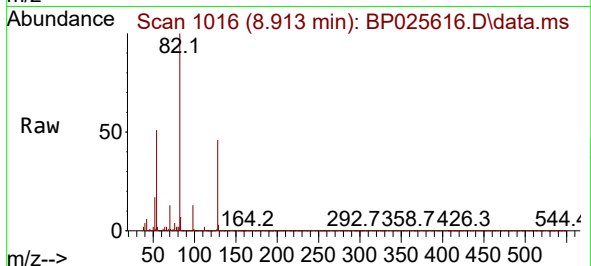




#23  
Nitrobenzene-d5  
Concen: 78.927 ng  
RT: 8.913 min Scan# 1016  
Delta R.T. -0.023 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

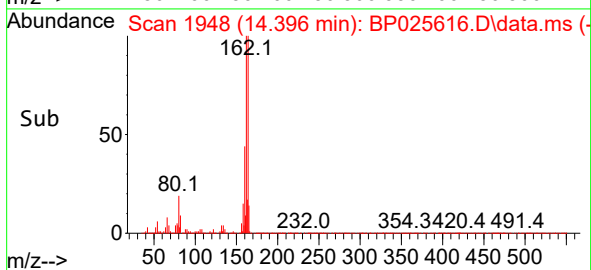
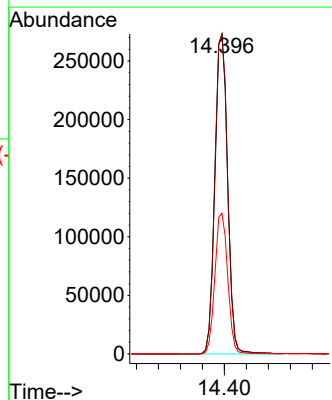
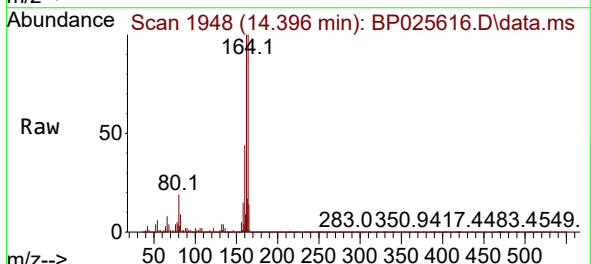
Instrument :  
BNA\_P  
ClientSampleId :  
TP10

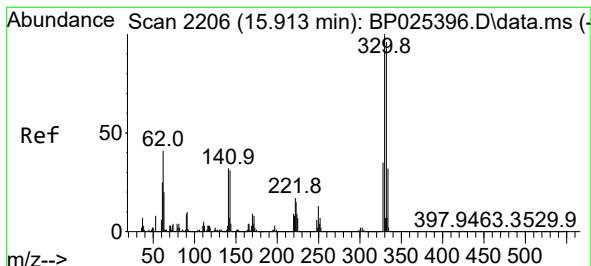
Tgt Ion: 82 Resp: 1098888  
Ion Ratio Lower Upper  
82 100  
128 45.6 37.7 56.5  
54 51.4 39.8 59.6



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.396 min Scan# 1948  
Delta R.T. -0.012 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

Tgt Ion:164 Resp: 438397  
Ion Ratio Lower Upper  
164 100  
162 100.1 81.0 121.6  
160 44.1 35.4 53.2





#42

2,4,6-Tribromophenol

Concen: 130.249 ng

RT: 15.913 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA\_P

ClientSampleId :

TP10

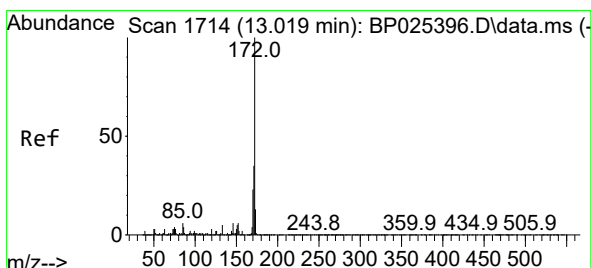
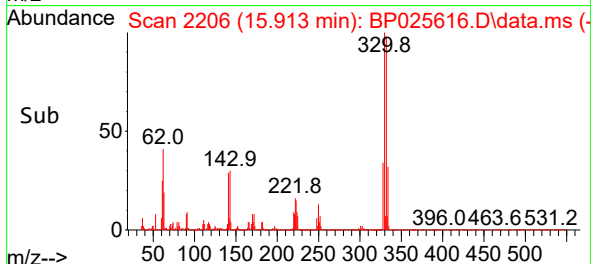
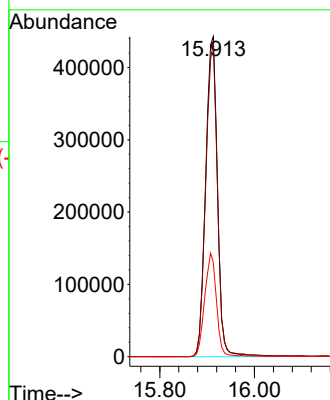
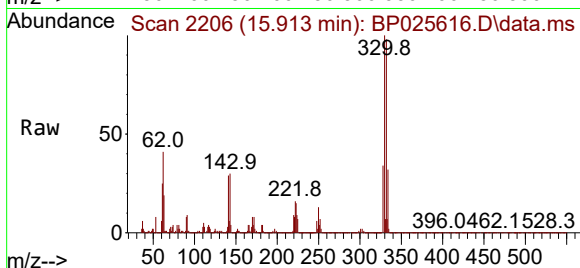
Tgt Ion:330 Resp: 768581

Ion Ratio Lower Upper

330 100

332 97.1 77.3 115.9

141 31.9 26.6 39.8



#45

2-Fluorobiphenyl

Concen: 70.971 ng

RT: 13.001 min Scan# 1711

Delta R.T. -0.017 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

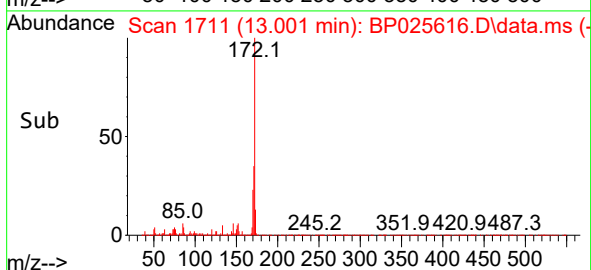
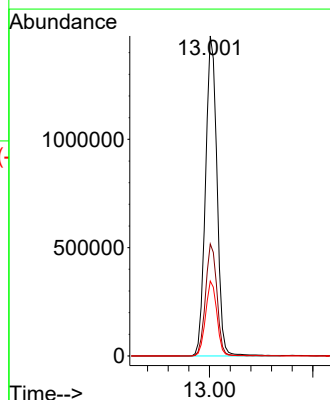
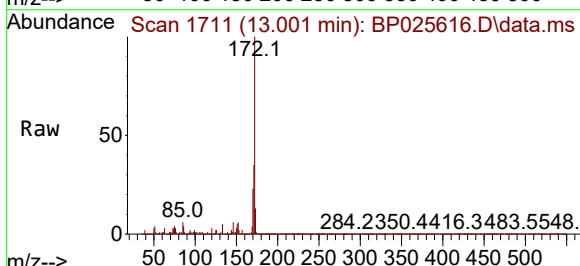
Tgt Ion:172 Resp: 2276560

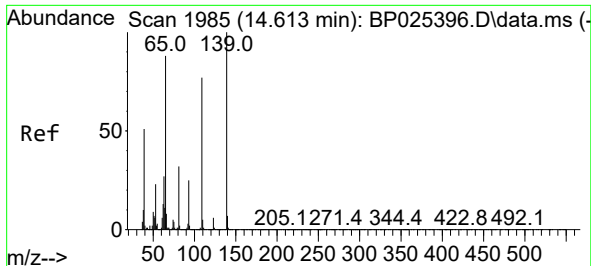
Ion Ratio Lower Upper

172 100

171 35.0 28.1 42.1

170 23.4 18.6 28.0

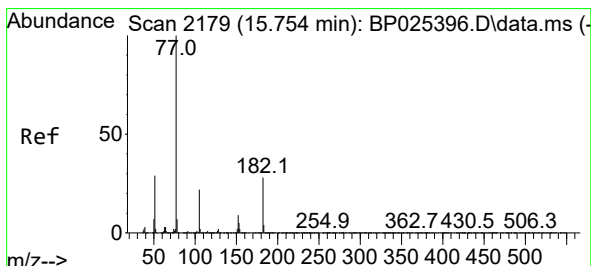
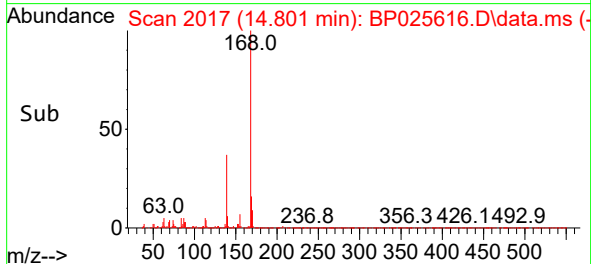
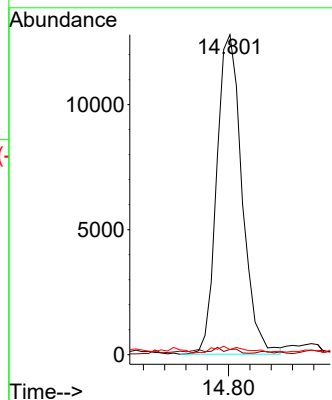
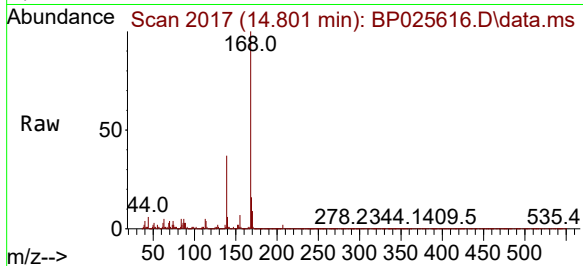




#56  
4-Nitrophenol  
Concen: 3.370 ng  
RT: 14.801 min Scan# 21083  
Delta R.T. 0.188 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

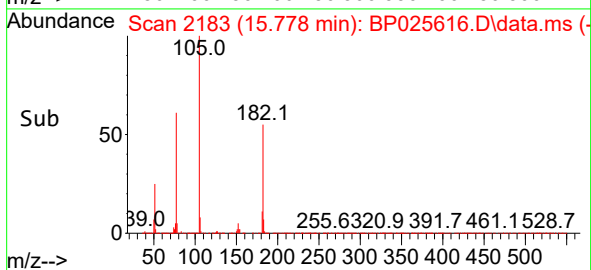
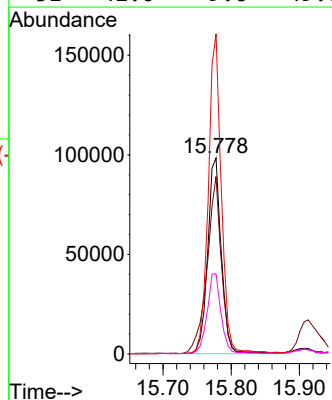
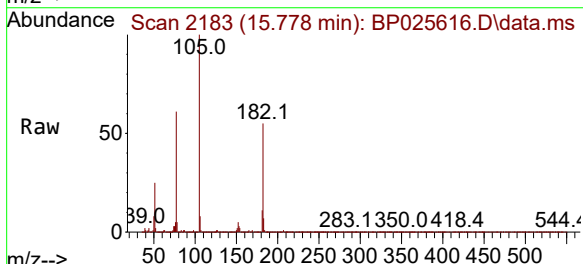
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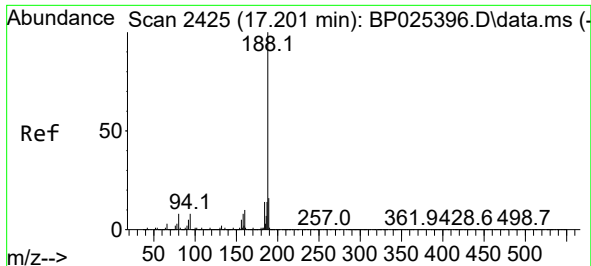
Tgt Ion:139 Resp: 21083  
Ion Ratio Lower Upper  
139 100  
109 1.7 56.6 96.6#  
65 1.6 68.2 108.2#



#63  
Azobenzene  
Concen: 4.918 ng  
RT: 15.778 min Scan# 2183  
Delta R.T. 0.024 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

Tgt Ion: 77 Resp: 137371  
Ion Ratio Lower Upper  
77 100  
182 90.5 7.5 47.5#  
105 163.2 2.1 42.1#  
51 41.0 9.6 49.6

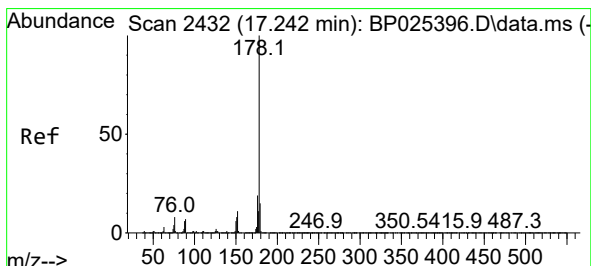
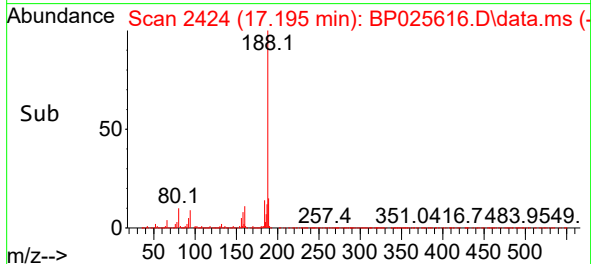
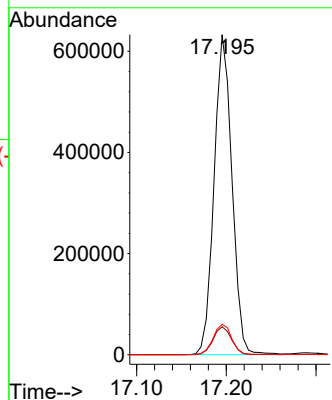
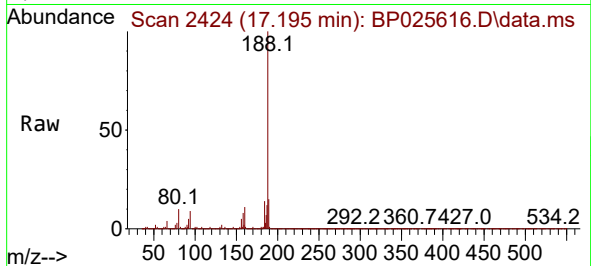




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.195 min Scan# 2425  
Delta R.T. -0.006 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

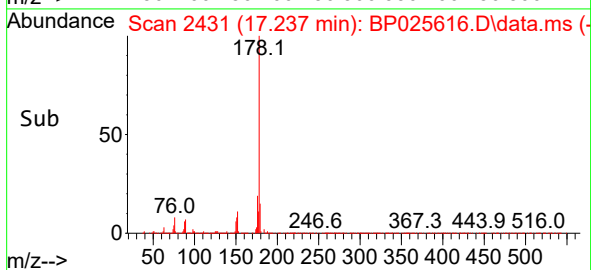
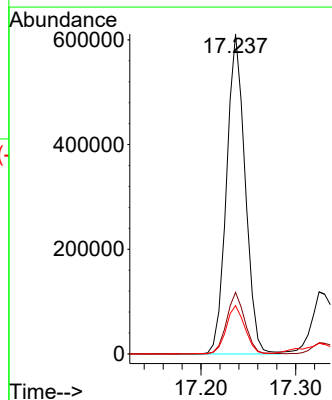
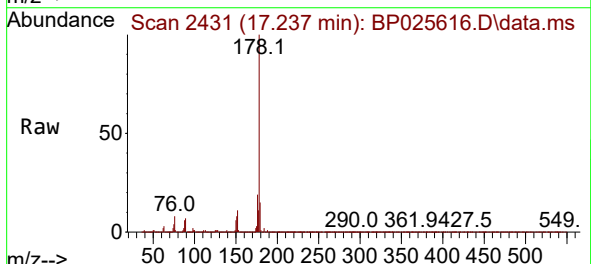
Instrument :  
BNA\_P  
ClientSampleId :  
TP10

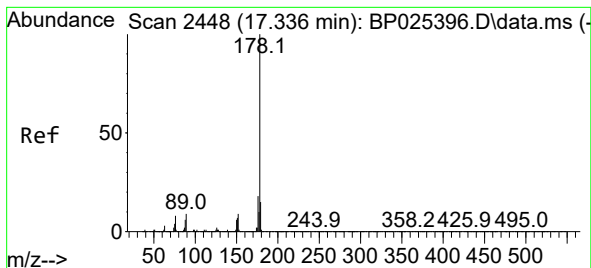
Tgt Ion:188 Resp: 875597  
Ion Ratio Lower Upper  
188 100  
94 8.8 6.6 10.0  
80 9.5 6.7 10.1



#71  
Phenanthrene  
Concen: 17.319 ng  
RT: 17.237 min Scan# 2431  
Delta R.T. -0.006 min  
Lab File: BP025616.D  
Acq: 28 Aug 2025 18:01

Tgt Ion:178 Resp: 833030  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.5 23.3  
179 15.1 12.2 18.4





#72

Anthracene

Concen: 3.942 ng

RT: 17.325 min Scan# 2446

Delta R.T. -0.012 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA\_P

ClientSampleId :

TP10

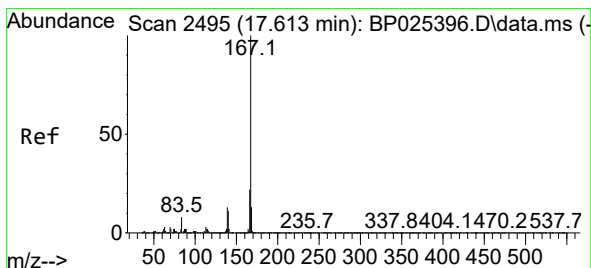
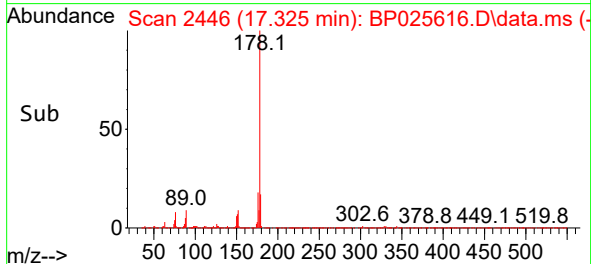
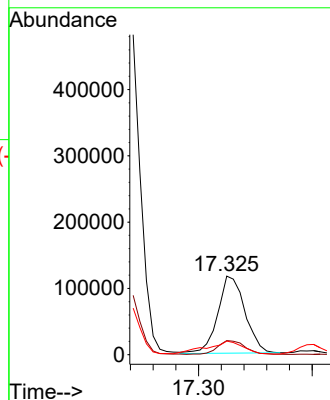
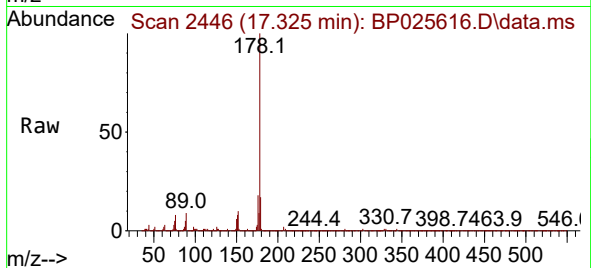
Tgt Ion:178 Resp: 193641

Ion Ratio Lower Upper

178 100

176 17.9 14.7 22.1

179 17.4 12.2 18.2



#73

Carbazole

Concen: 2.147 ng

RT: 17.613 min Scan# 2495

Delta R.T. 0.000 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

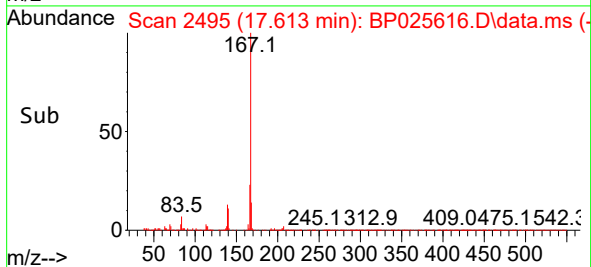
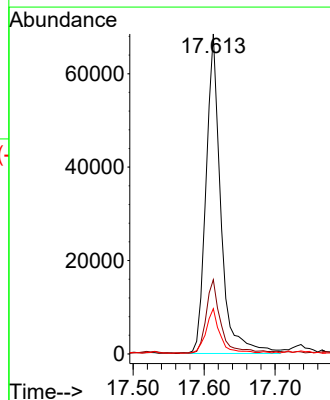
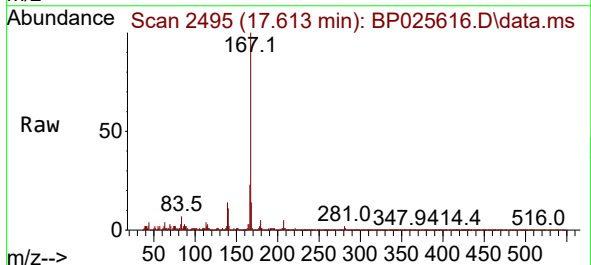
Tgt Ion:167 Resp: 99355

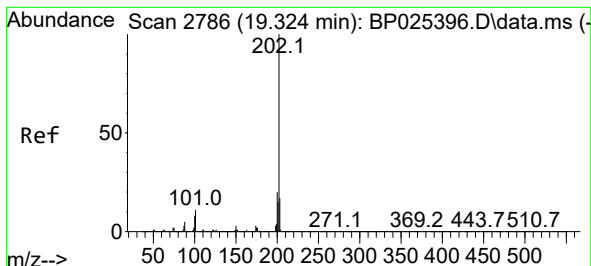
Ion Ratio Lower Upper

167 100

166 23.2 17.5 26.3

139 14.1 10.6 16.0





#75

Fluoranthene

Concen: 16.275 ng

RT: 19.325 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA\_P

ClientSampleId :

TP10

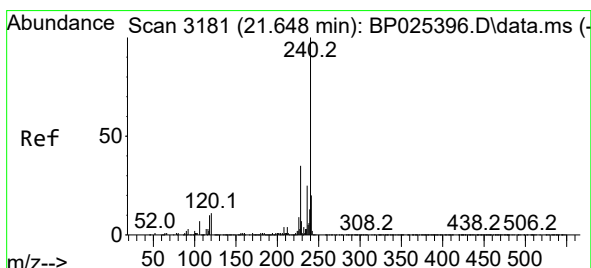
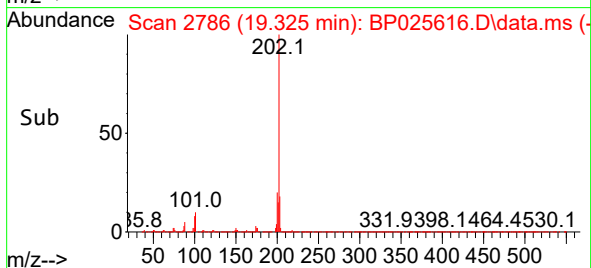
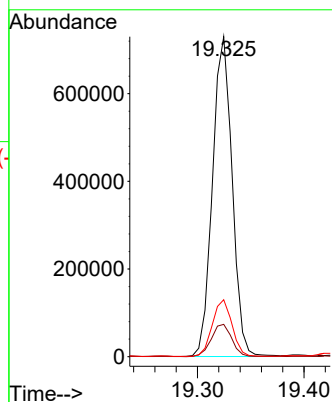
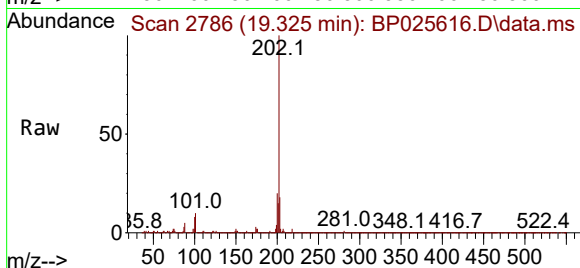
Tgt Ion:202 Resp: 933789

Ion Ratio Lower Upper

202 100

101 10.1 0.0 31.1

203 17.8 0.0 37.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.636 min Scan# 3179

Delta R.T. -0.012 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

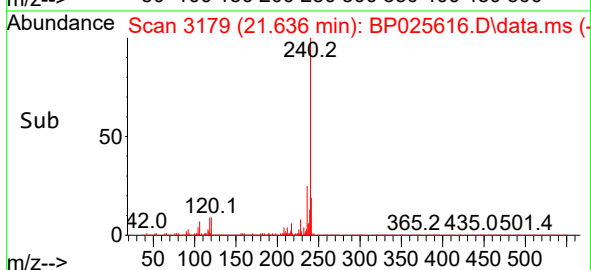
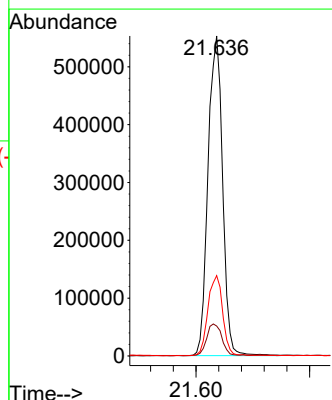
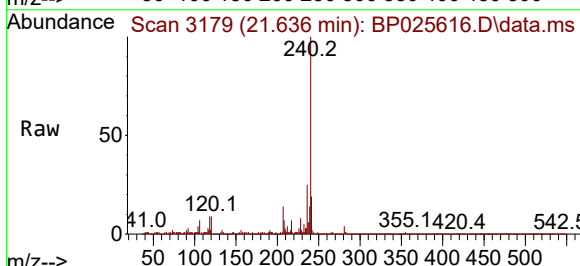
Tgt Ion:240 Resp: 979372

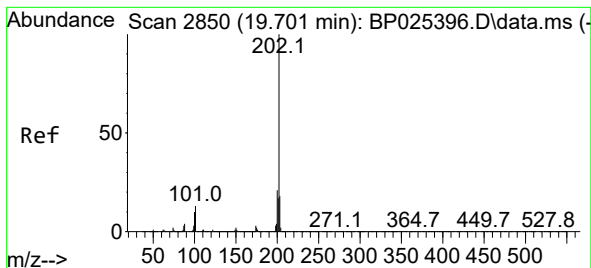
Ion Ratio Lower Upper

240 100

120 9.4 8.9 13.3

236 25.1 19.8 29.8





#78

Pyrene

Concen: 12.088 ng

RT: 19.695 min Scan# 2849

Delta R.T. -0.006 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA\_P

ClientSampleId :

TP10

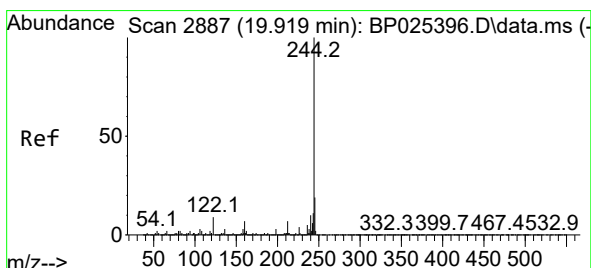
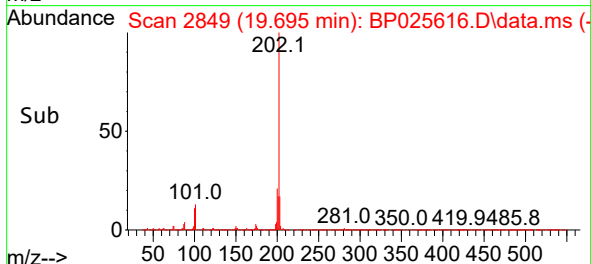
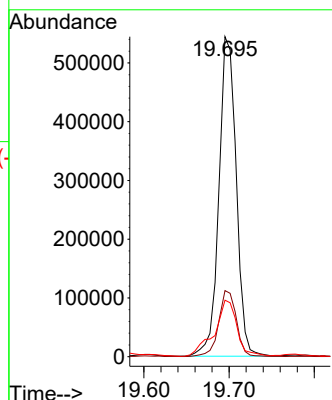
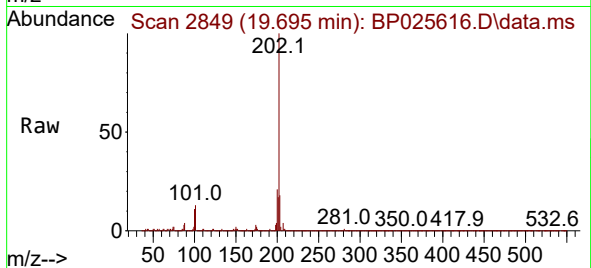
Tgt Ion:202 Resp: 769476

Ion Ratio Lower Upper

202 100

200 20.6 16.9 25.3

203 17.7 14.2 21.2



#79

Terphenyl-d14

Concen: 64.284 ng

RT: 19.925 min Scan# 2888

Delta R.T. 0.006 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

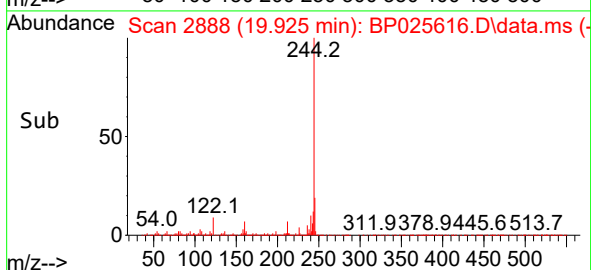
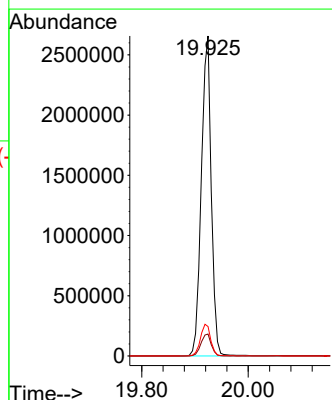
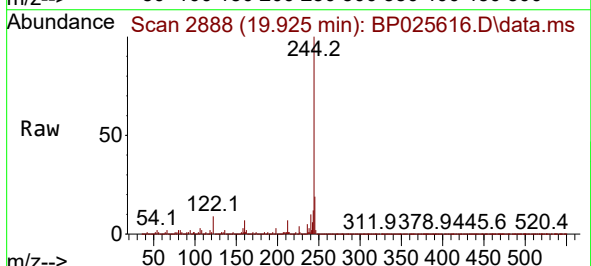
Tgt Ion:244 Resp: 3441124

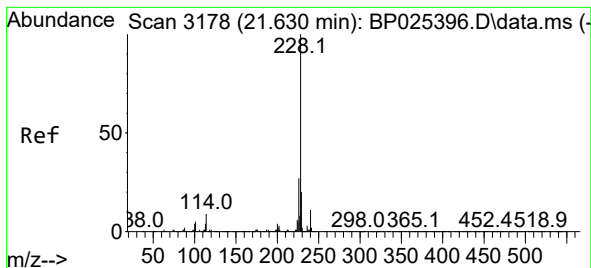
Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.6

122 9.2 7.4 11.2





#81

Benzo(a)anthracene

Concen: 7.000 ng

RT: 21.613 min Scan# 3175

Delta R.T. -0.017 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA\_P

ClientSampleId :

TP10

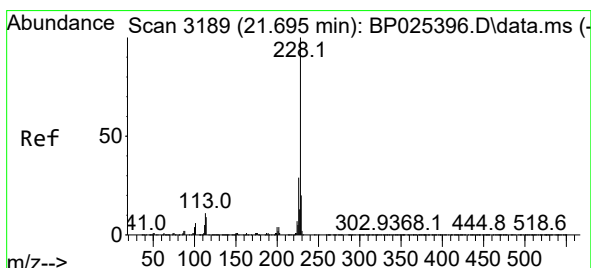
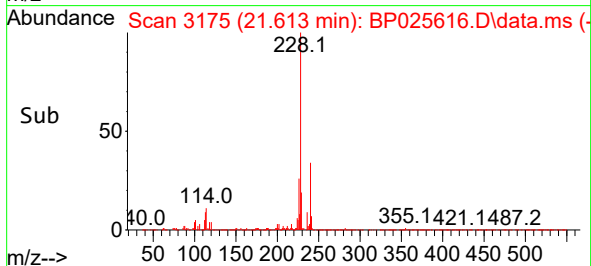
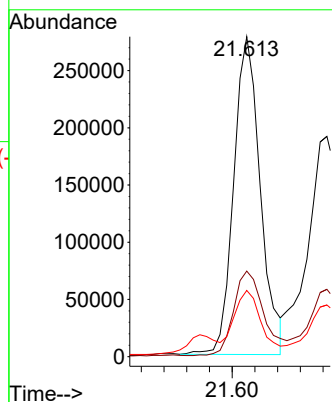
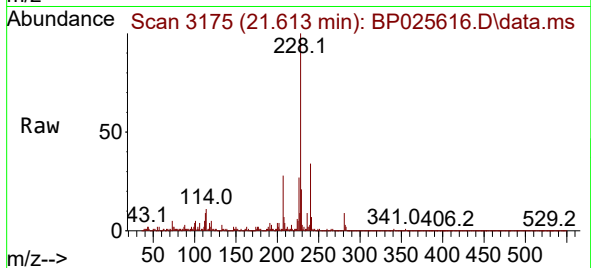
Tgt Ion:228 Resp: 452117

Ion Ratio Lower Upper

228 100

226 26.8 21.7 32.5

229 20.7 15.6 23.4



#83

Chrysene

Concen: 7.474 ng

RT: 21.613 min Scan# 3175

Delta R.T. -0.082 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

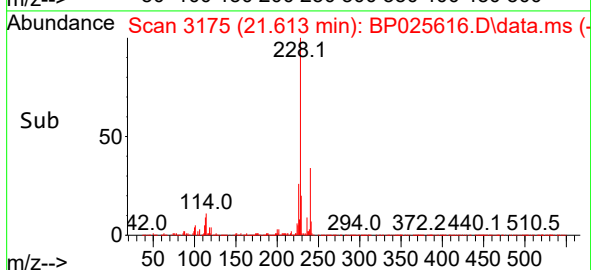
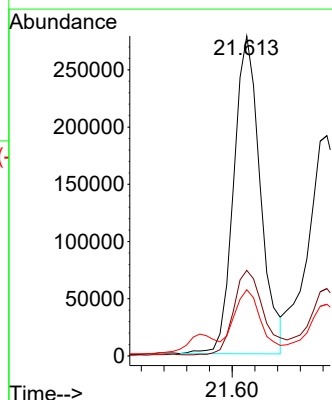
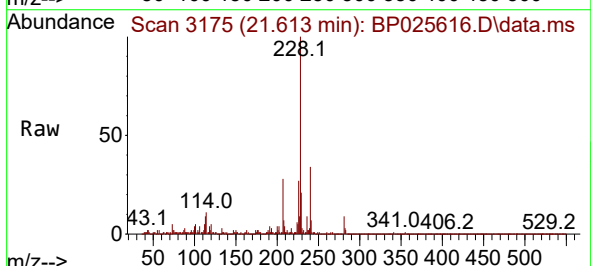
Tgt Ion:228 Resp: 452117

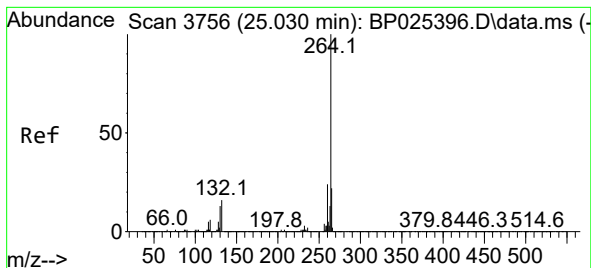
Ion Ratio Lower Upper

228 100

226 26.8 23.2 34.8

229 20.7 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.007 min Scan# 31

Delta R.T. -0.023 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA\_P

ClientSampleId :

TP10

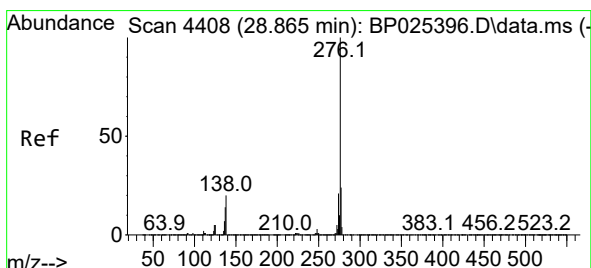
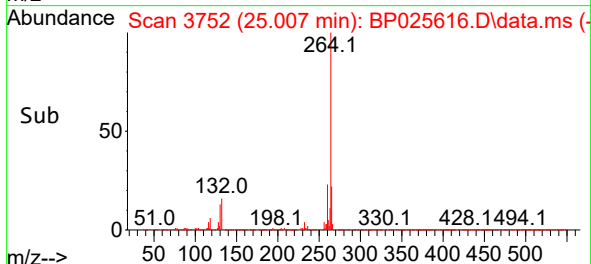
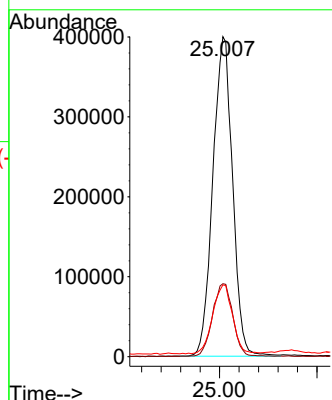
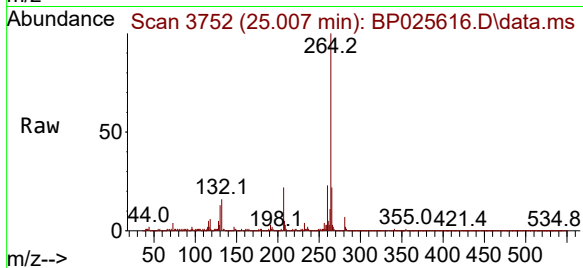
Tgt Ion:264 Resp: 1121426

Ion Ratio Lower Upper

264 100

260 22.8 19.3 28.9

265 22.4 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.241 ng

RT: 28.842 min Scan# 4404

Delta R.T. -0.023 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

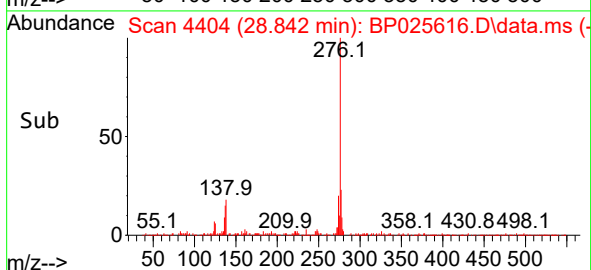
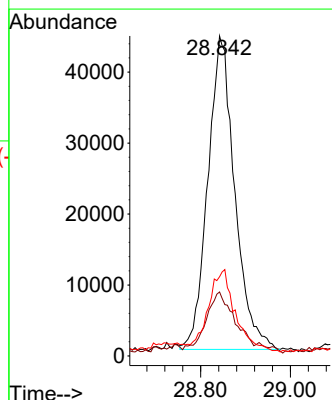
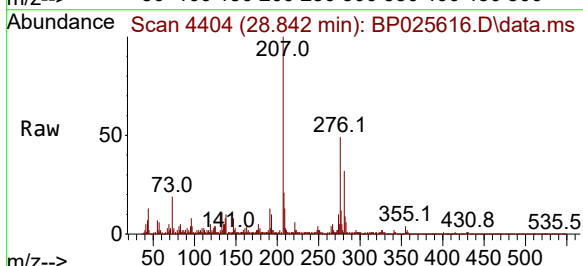
Tgt Ion:276 Resp: 184270

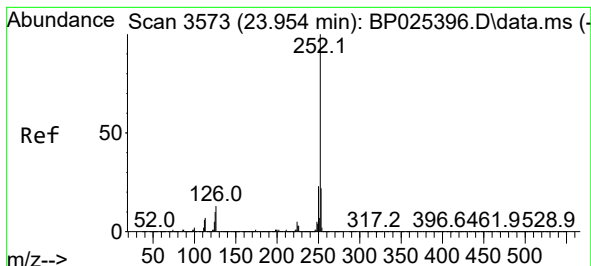
Ion Ratio Lower Upper

276 100

138 18.9 12.9 19.3

277 26.6 17.0 25.6#





#88

Benzo(b)fluoranthene

Concen: 6.580 ng

RT: 23.942 min Scan# 3571

Delta R.T. -0.012 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA\_P

ClientSampleId :

TP10

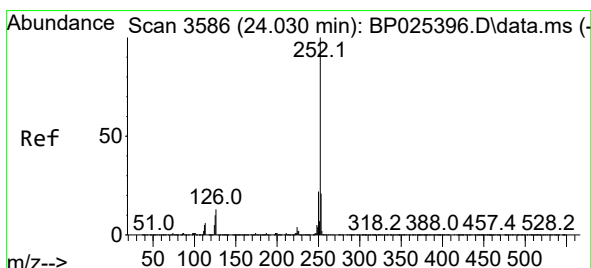
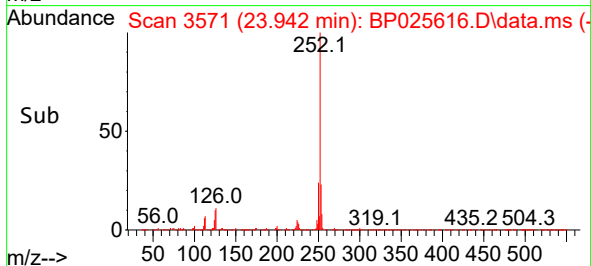
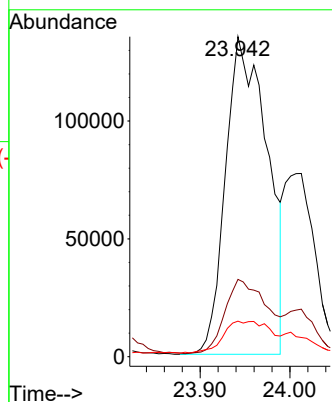
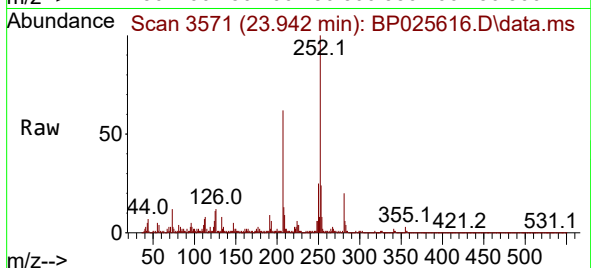
Tgt Ion:252 Resp: 435135

Ion Ratio Lower Upper

252 100

253 24.2 17.7 26.5

125 11.1 7.9 11.9



#89

Benzo(k)fluoranthene

Concen: 6.582 ng

RT: 23.942 min Scan# 3571

Delta R.T. -0.088 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

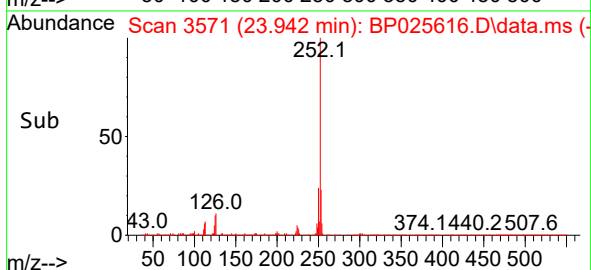
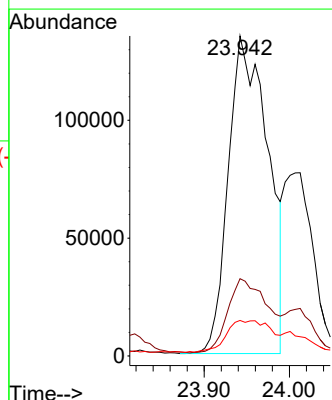
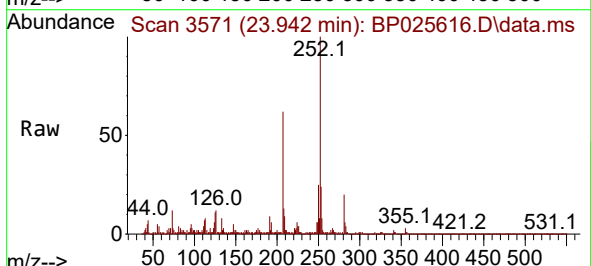
Tgt Ion:252 Resp: 435572

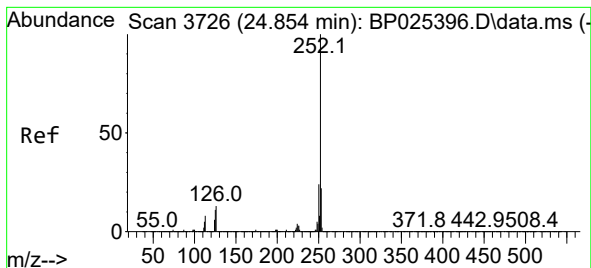
Ion Ratio Lower Upper

252 100

253 24.2 17.1 25.7

125 11.1 7.8 11.6





#90

Benzo(a)pyrene

Concen: 5.053 ng

RT: 24.854 min Scan# 31

Delta R.T. 0.000 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA\_P

ClientSampleId :

TP10

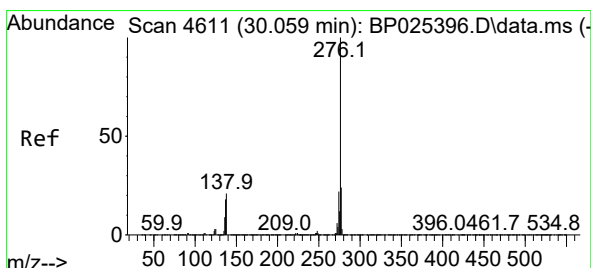
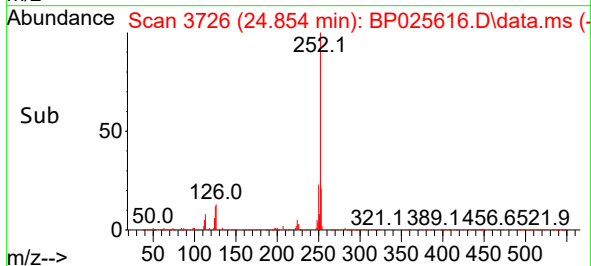
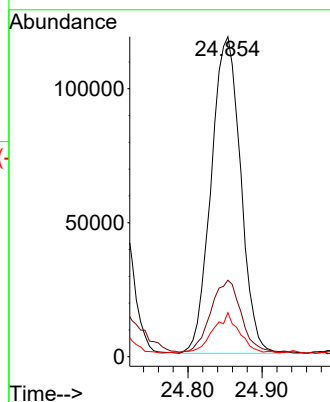
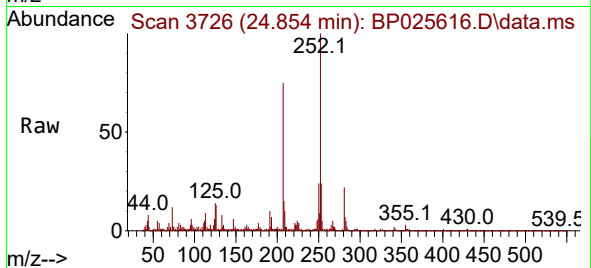
Tgt Ion:252 Resp: 325291

Ion Ratio Lower Upper

252 100

253 23.9 17.5 26.3

125 13.8 8.7 13.1#



#92

Benzo(g,h,i)perylene

Concen: 2.291 ng

RT: 30.024 min Scan# 4605

Delta R.T. -0.035 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Tgt Ion:276 Resp: 151334

Ion Ratio Lower Upper

276 100

277 25.0 19.4 29.0

138 19.9 16.7 25.1

