

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP082025\  
 Data File : BP025537.D  
 Acq On : 21 Aug 2025 12:53  
 Operator : CG/JU  
 Sample : Q2832-09 5X  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :

Quant Time: Aug 21 13:49:46 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

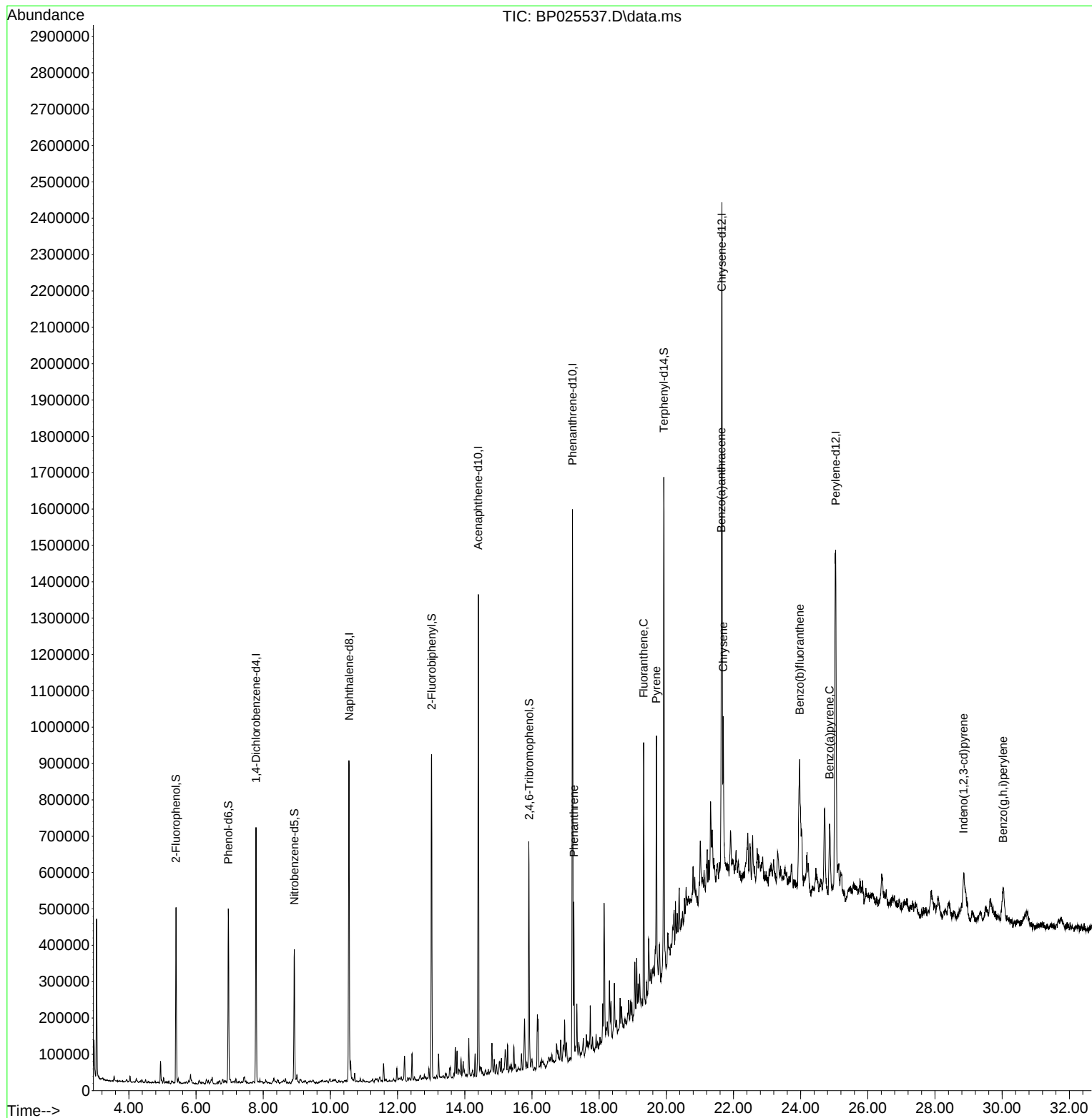
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.784  | 152  | 185117   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.554 | 136  | 725235   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.401 | 164  | 450660   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.207 | 188  | 892132   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.654 | 240  | 915666   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 25.042 | 264  | 1087701  | 20.000 | ng    | 0.01     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.402  | 112  | 206341   | 18.511 | ng    | 0.00     |
| 7) Phenol-d6                | 6.960  | 99   | 277731   | 19.434 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.925  | 82   | 209917   | 14.642 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 15.913 | 330  | 107686   | 17.753 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.013 | 172  | 507527   | 15.391 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.924 | 244  | 745273   | 14.891 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.248 | 178  | 239345   | 4.884  | ng    | 99       |
| 75) Fluoranthene            | 19.324 | 202  | 429862   | 7.353  | ng    | 99       |
| 78) Pyrene                  | 19.701 | 202  | 387173   | 6.505  | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.636 | 228  | 247055   | 4.091  | ng    | 95       |
| 83) Chrysene                | 21.695 | 228  | 295150   | 5.219  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 28.847 | 276  | 199747   | 2.504  | ng    | # 95     |
| 88) Benzo(b)fluoranthene    | 23.971 | 252  | 443701   | 6.918  | ng    | 96       |
| 90) Benzo(a)pyrene          | 24.859 | 252  | 213524   | 3.420  | ng    | # 96     |
| 92) Benzo(g,h,i)perylene    | 30.024 | 276  | 197045   | 3.075  | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP081425.M  
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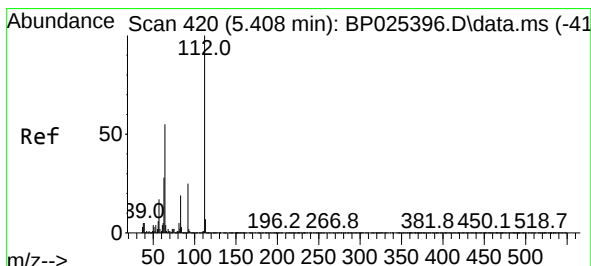
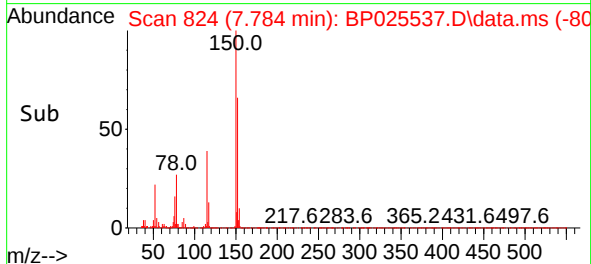
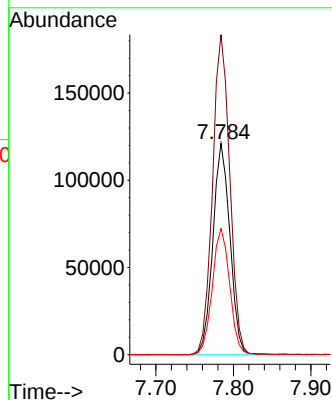
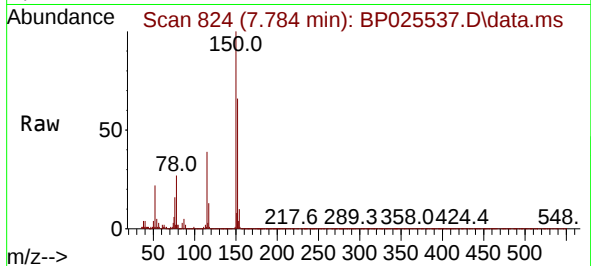




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.784 min Scan# 81  
 Delta R.T. -0.012 min  
 Lab File: BP025537.D  
 Acq: 21 Aug 2025 12:53

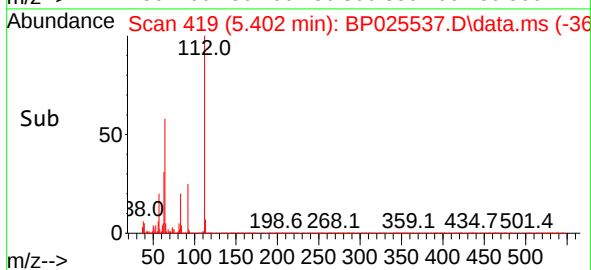
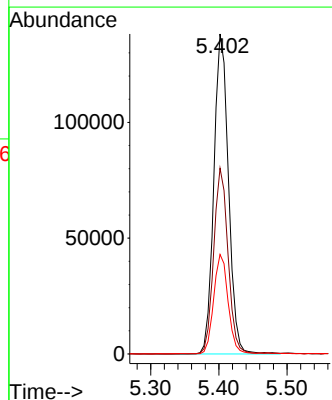
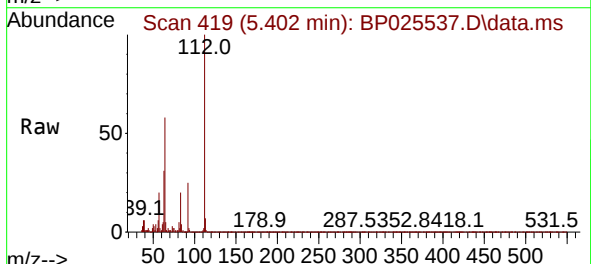
Instrument :  
 BNA\_P  
 ClientSampleId :

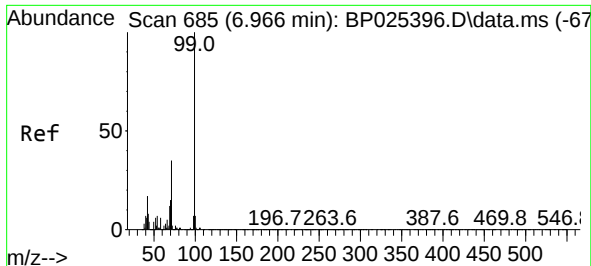
Tgt Ion:152 Resp: 185117  
 Ion Ratio Lower Upper  
 152 100  
 150 151.4 125.9 188.9  
 115 59.7 48.5 72.7



#5  
 2-Fluorophenol  
 Concen: 18.511 ng  
 RT: 5.402 min Scan# 419  
 Delta R.T. -0.006 min  
 Lab File: BP025537.D  
 Acq: 21 Aug 2025 12:53

Tgt Ion:112 Resp: 206341  
 Ion Ratio Lower Upper  
 112 100  
 64 58.1 43.8 65.8  
 63 31.1 22.7 34.1

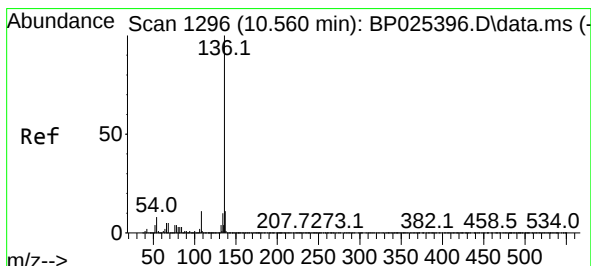
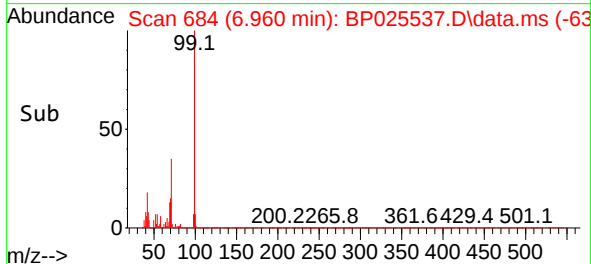
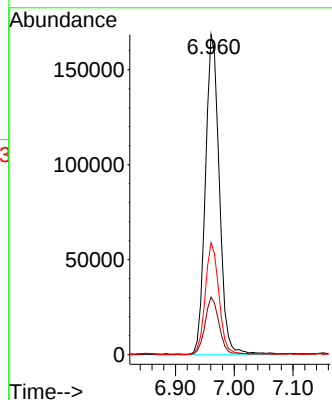
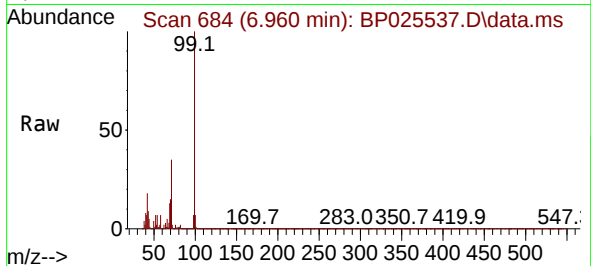




#7  
Phenol-d6  
Concen: 19.434 ng  
RT: 6.960 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BP025537.D  
Acq: 21 Aug 2025 12:53

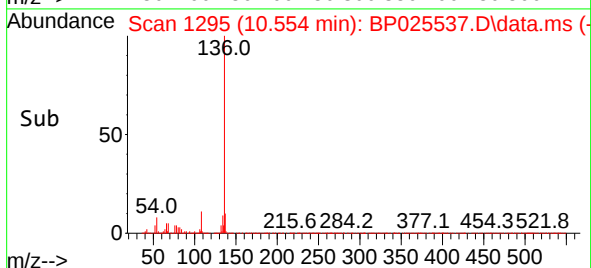
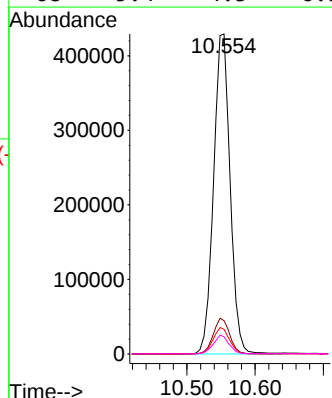
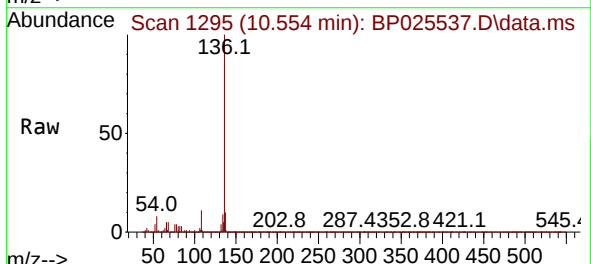
Instrument :  
BNA\_P  
ClientSampleId :

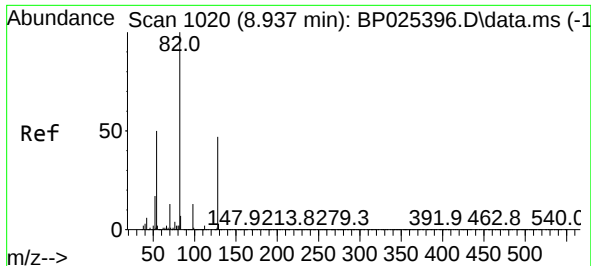
Tgt Ion: 99 Resp: 277731  
Ion Ratio Lower Upper  
99 100  
42 18.0 13.7 20.5  
71 35.0 28.2 42.4



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.554 min Scan# 1295  
Delta R.T. -0.006 min  
Lab File: BP025537.D  
Acq: 21 Aug 2025 12:53

Tgt Ion: 136 Resp: 725235  
Ion Ratio Lower Upper  
136 100  
137 10.4 9.2 13.8  
54 7.7 6.0 9.0  
68 5.4 4.3 6.5

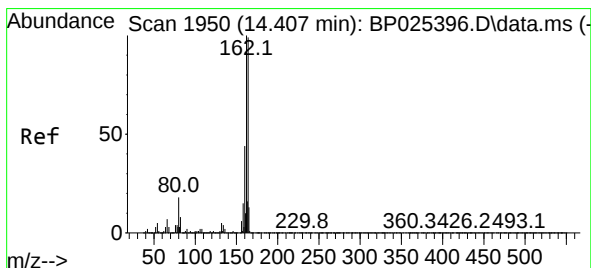
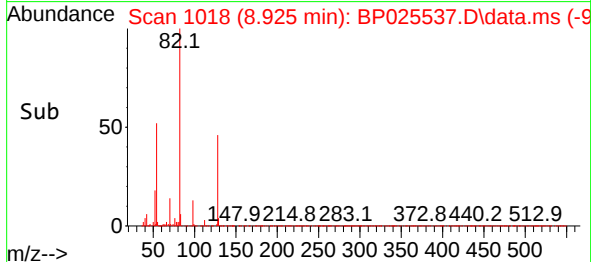
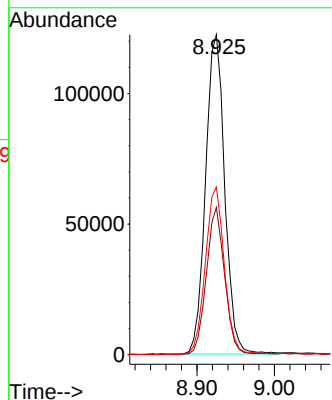
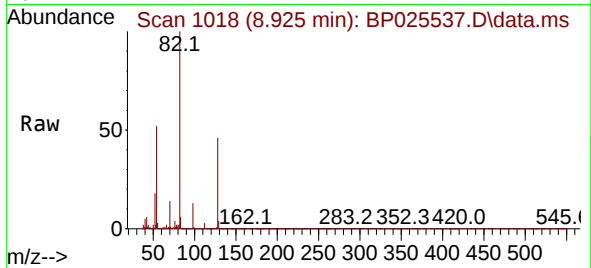




#23  
Nitrobenzene-d5  
Concen: 14.642 ng  
RT: 8.925 min Scan# 1018  
Delta R.T. -0.012 min  
Lab File: BP025537.D  
Acq: 21 Aug 2025 12:53

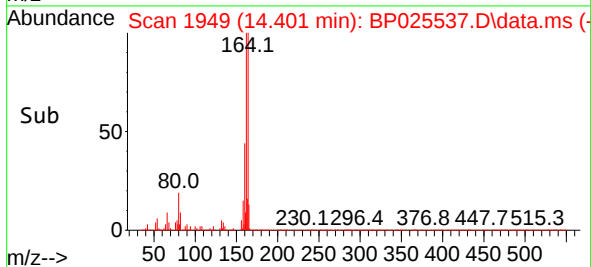
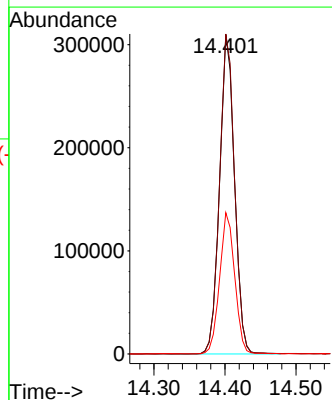
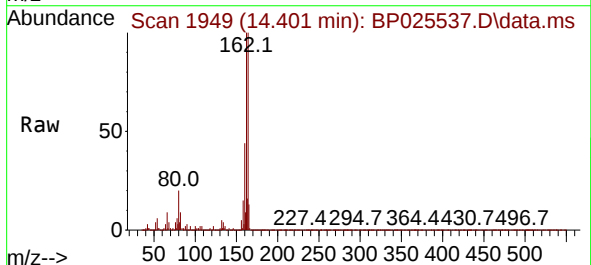
Instrument :  
BNA\_P  
ClientSampleId :

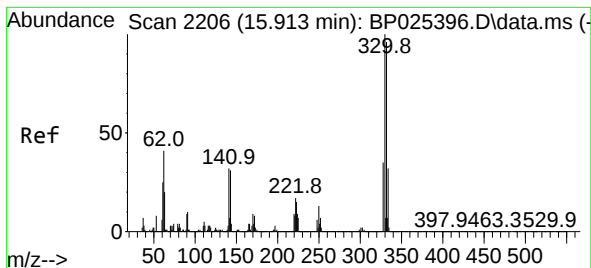
Tgt Ion: 82 Resp: 209917  
Ion Ratio Lower Upper  
82 100  
128 46.0 37.7 56.5  
54 52.4 39.8 59.6



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.401 min Scan# 1949  
Delta R.T. -0.006 min  
Lab File: BP025537.D  
Acq: 21 Aug 2025 12:53

Tgt Ion:164 Resp: 450660  
Ion Ratio Lower Upper  
164 100  
162 100.2 81.0 121.6  
160 44.2 35.4 53.2





#42

2,4,6-Tribromophenol

Concen: 17.753 ng

RT: 15.913 min Scan# 21

Delta R.T. -0.000 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

Instrument :

BNA\_P

ClientSampleId :

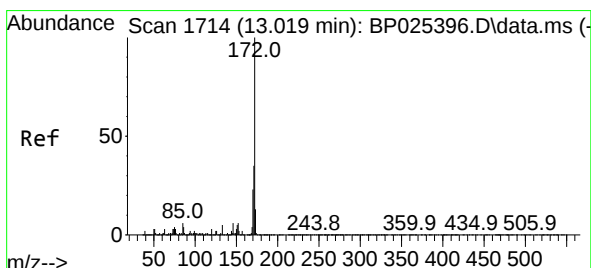
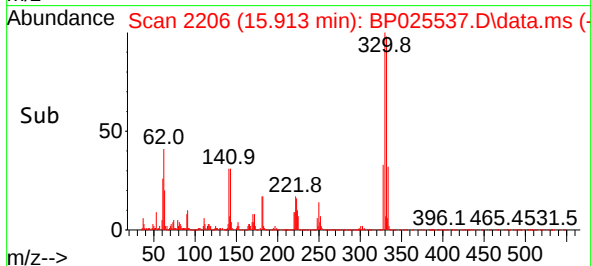
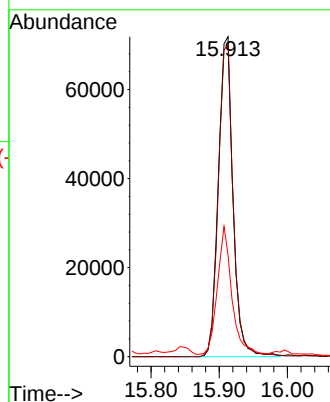
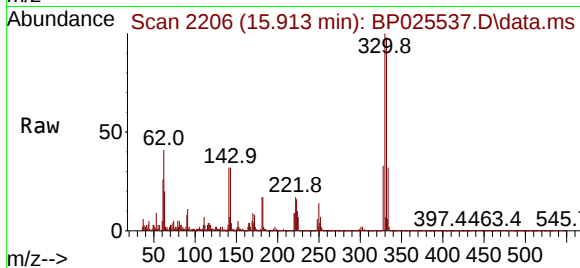
Tgt Ion:330 Resp: 107686

Ion Ratio Lower Upper

330 100

332 98.7 77.3 115.9

141 39.1 26.6 39.8



#45

2-Fluorobiphenyl

Concen: 15.391 ng

RT: 13.013 min Scan# 1713

Delta R.T. -0.006 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

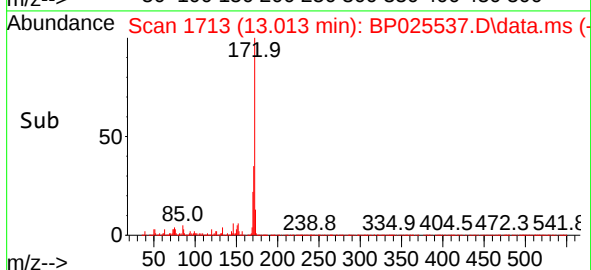
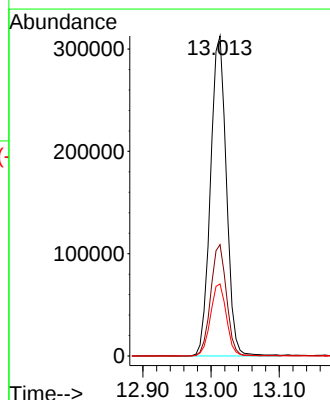
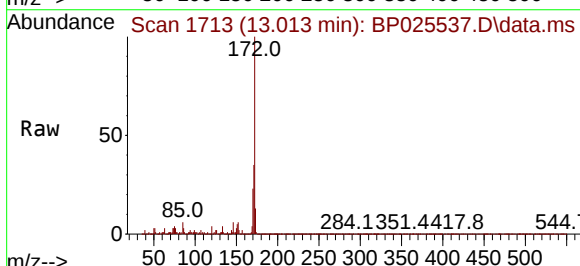
Tgt Ion:172 Resp: 507527

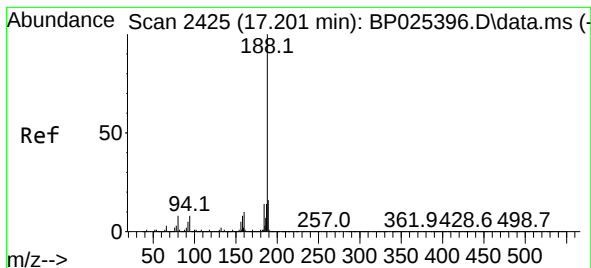
Ion Ratio Lower Upper

172 100

171 34.8 28.1 42.1

170 22.5 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.207 min Scan# 2425

Delta R.T. 0.006 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

Instrument :

BNA\_P

ClientSampleId :

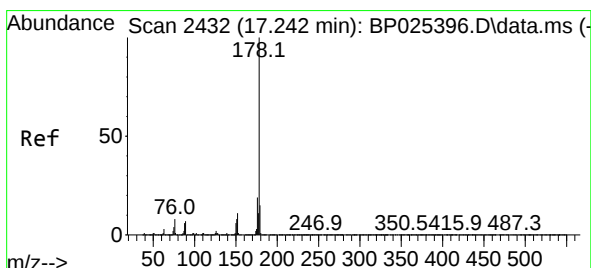
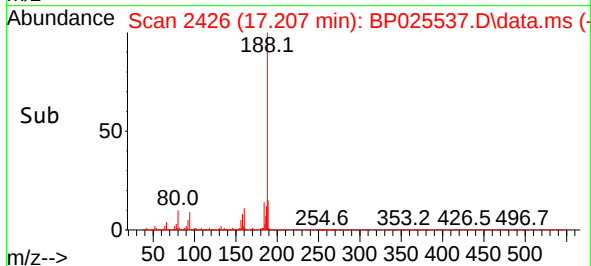
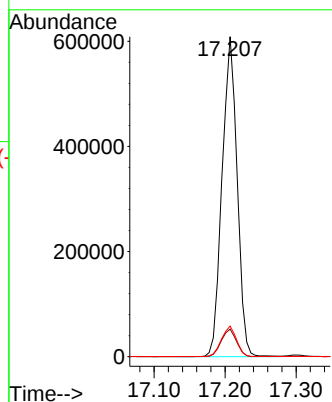
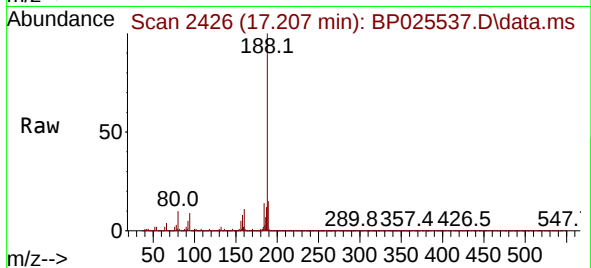
Tgt Ion:188 Resp: 892132

Ion Ratio Lower Upper

188 100

94 8.6 6.6 10.0

80 9.6 6.7 10.1



#71

Phenanthrene

Concen: 4.884 ng

RT: 17.248 min Scan# 2433

Delta R.T. 0.006 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

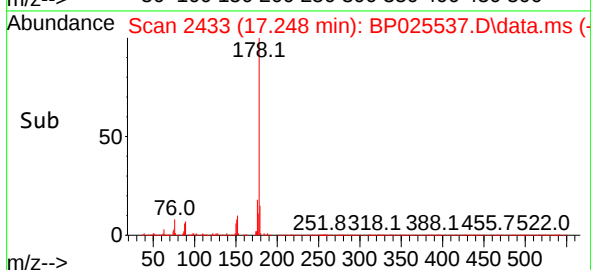
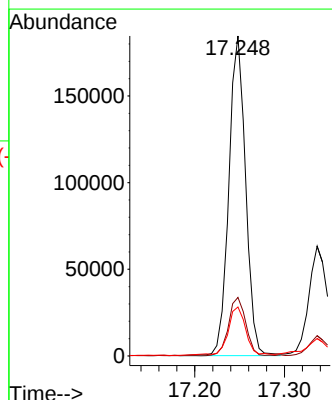
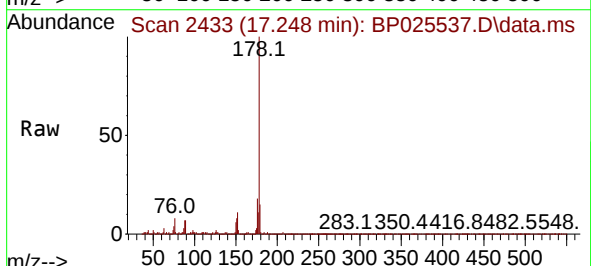
Tgt Ion:178 Resp: 239345

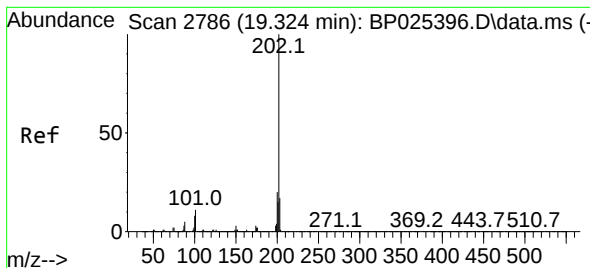
Ion Ratio Lower Upper

178 100

176 18.3 15.5 23.3

179 15.3 12.2 18.4





#75

Fluoranthene

Concen: 7.353 ng

RT: 19.324 min Scan# 21

Delta R.T. -0.000 min

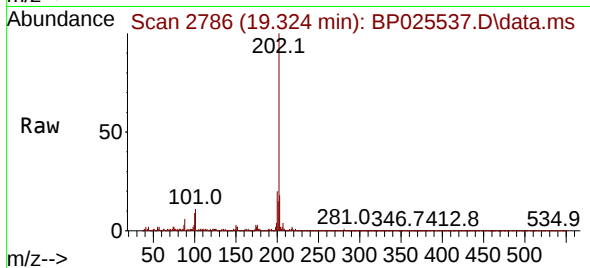
Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

Instrument :

BNA\_P

ClientSampleId :



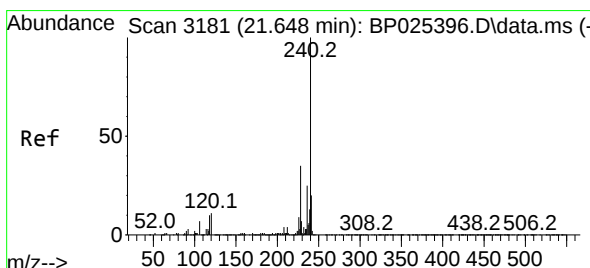
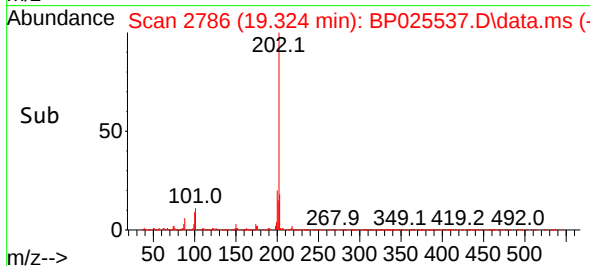
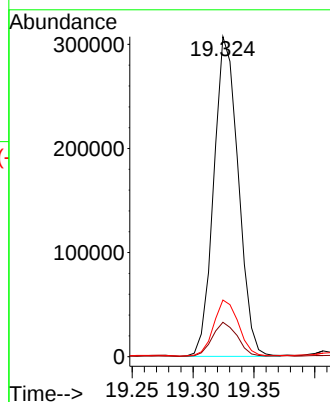
Tgt Ion:202 Resp: 429862

Ion Ratio Lower Upper

202 100

101 10.8 0.0 31.1

203 17.7 0.0 37.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.654 min Scan# 3182

Delta R.T. 0.006 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

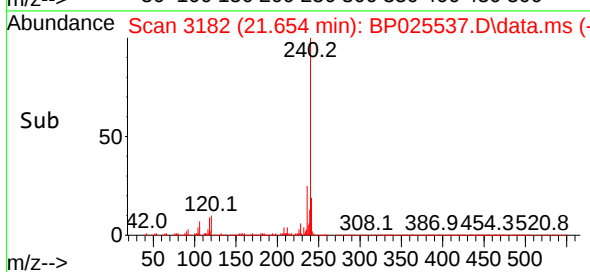
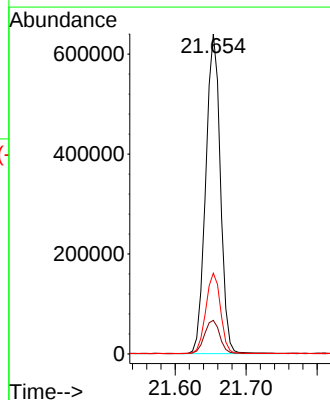
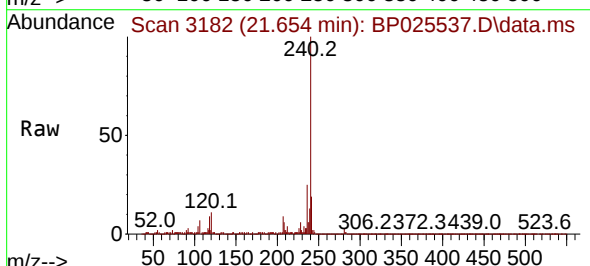
Tgt Ion:240 Resp: 915666

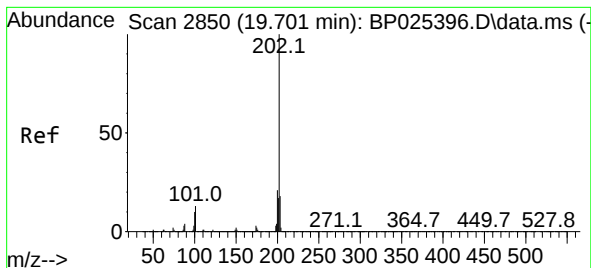
Ion Ratio Lower Upper

240 100

120 10.5 8.9 13.3

236 25.3 19.8 29.8





#78

Pyrene

Concen: 6.505 ng

RT: 19.701 min Scan# 2850

Delta R.T. -0.000 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

Instrument :

BNA\_P

ClientSampleId :

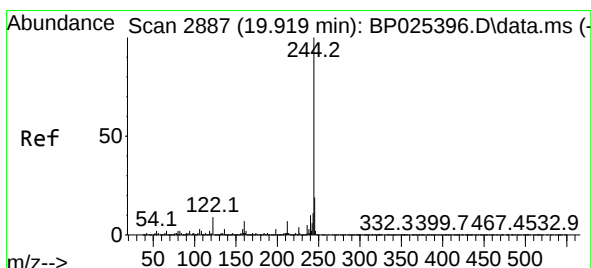
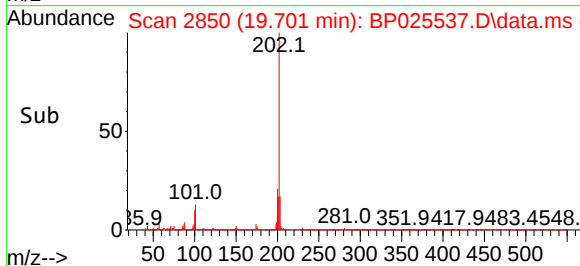
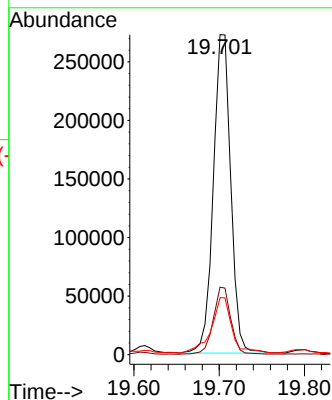
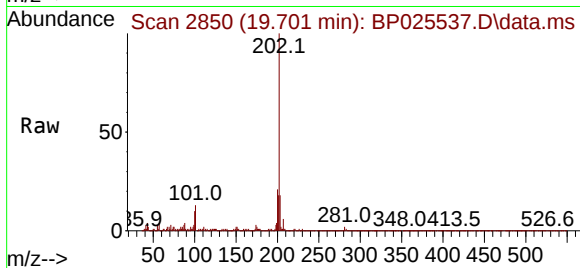
Tgt Ion:202 Resp: 387173

Ion Ratio Lower Upper

202 100

200 21.1 16.9 25.3

203 17.8 14.2 21.2



#79

Terphenyl-d14

Concen: 14.891 ng

RT: 19.924 min Scan# 2888

Delta R.T. 0.006 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

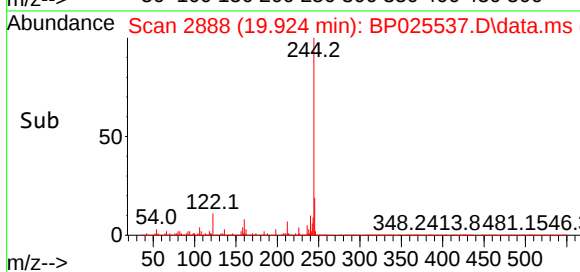
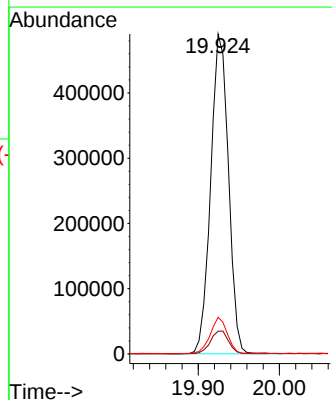
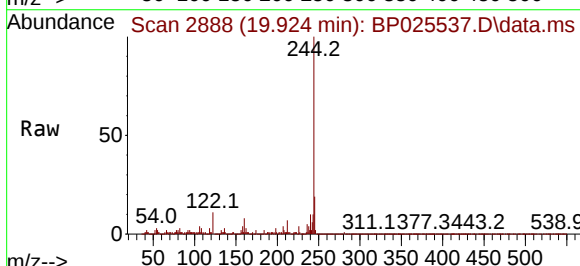
Tgt Ion:244 Resp: 745273

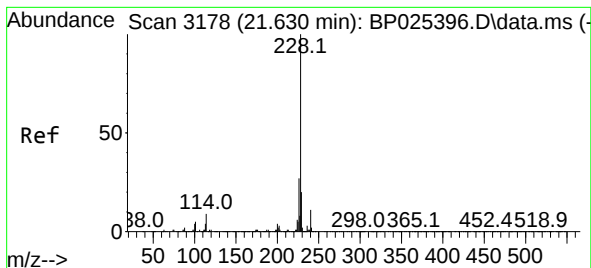
Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.6

122 11.5 7.4 11.2#





#81

Benzo(a)anthracene

Concen: 4.091 ng

RT: 21.636 min Scan# 3179

Delta R.T. 0.006 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

Instrument :

BNA\_P

ClientSampleId :

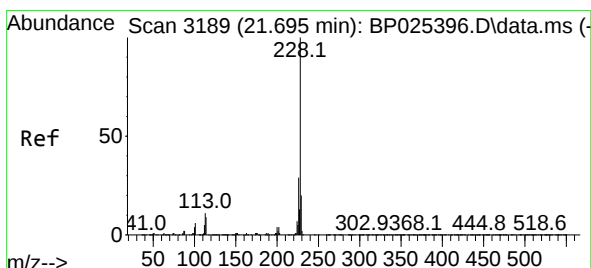
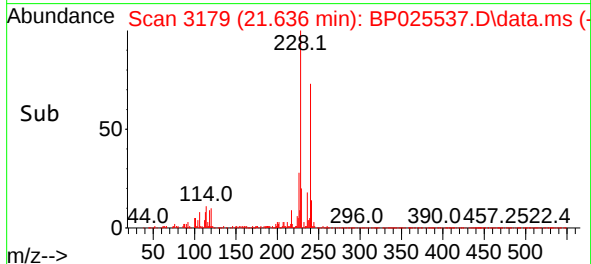
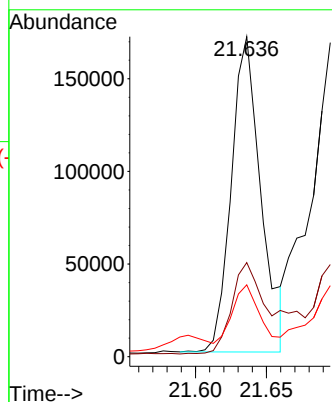
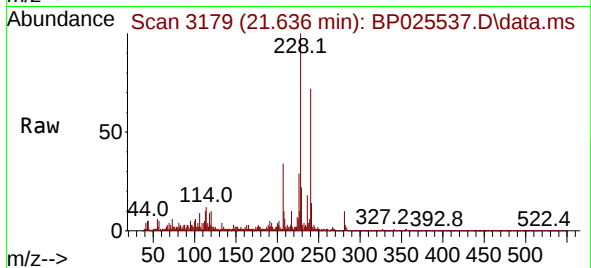
Tgt Ion:228 Resp: 247055

Ion Ratio Lower Upper

228 100

226 29.4 21.7 32.5

229 22.4 15.6 23.4



#83

Chrysene

Concen: 5.219 ng

RT: 21.695 min Scan# 3189

Delta R.T. -0.000 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

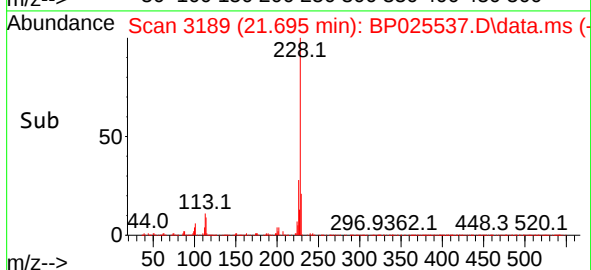
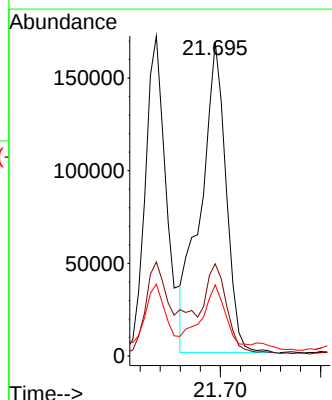
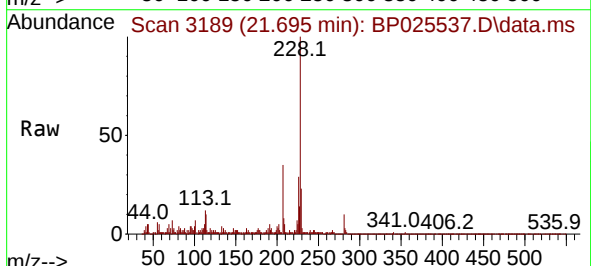
Tgt Ion:228 Resp: 295150

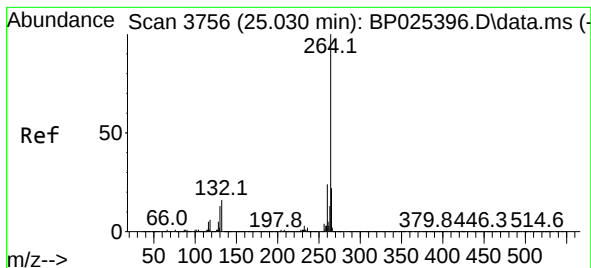
Ion Ratio Lower Upper

228 100

226 29.4 23.2 34.8

229 22.6 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.042 min Scan# 31

Delta R.T. 0.012 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

Instrument :

BNA\_P

ClientSampleId :

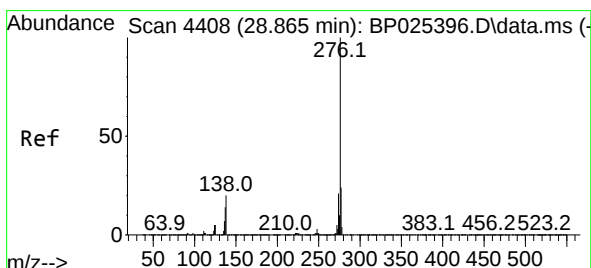
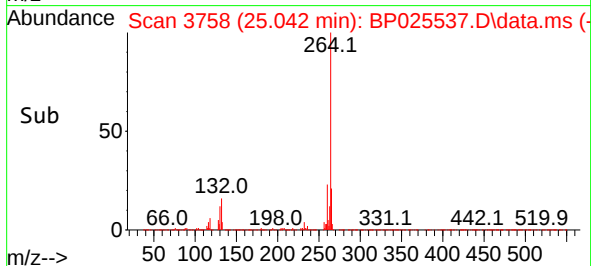
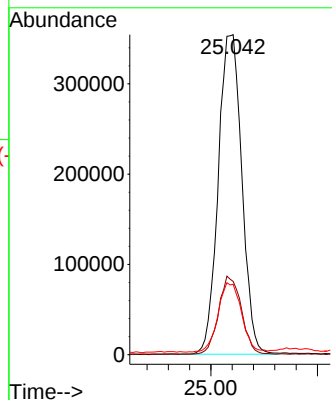
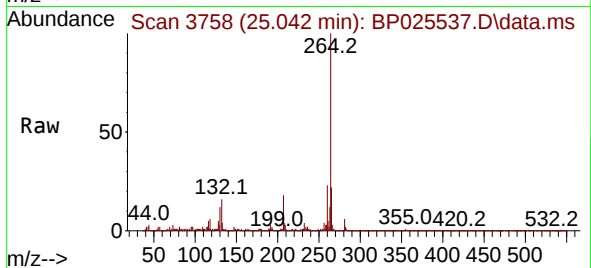
Tgt Ion:264 Resp: 1087701

Ion Ratio Lower Upper

264 100

260 22.9 19.3 28.9

265 22.0 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.504 ng

RT: 28.847 min Scan# 4405

Delta R.T. -0.018 min

Lab File: BP025537.D

Acq: 21 Aug 2025 12:53

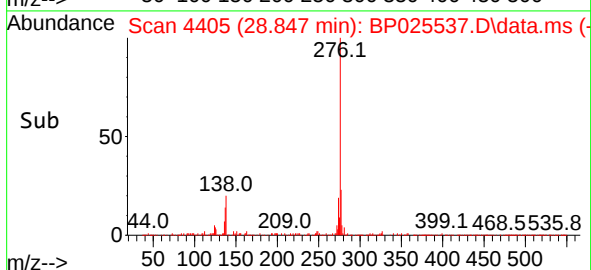
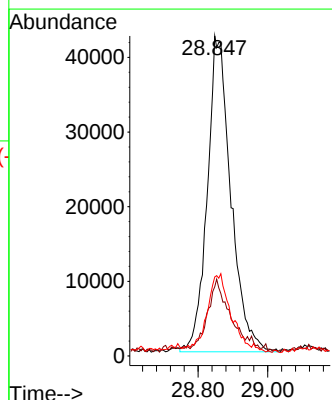
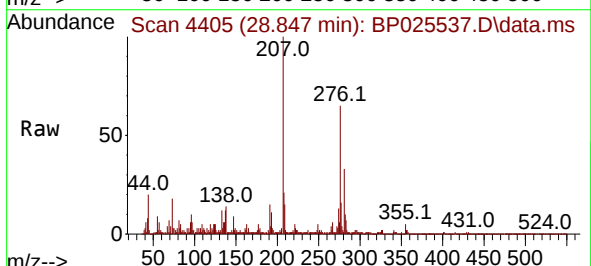
Tgt Ion:276 Resp: 199747

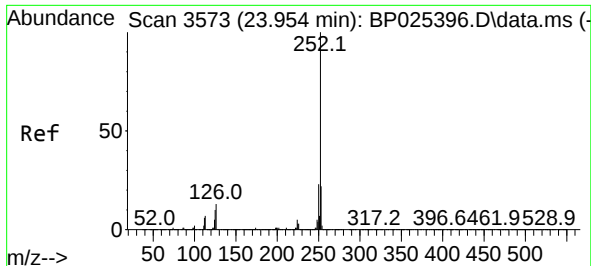
Ion Ratio Lower Upper

276 100

138 19.4 12.9 19.3#

277 22.6 17.0 25.6

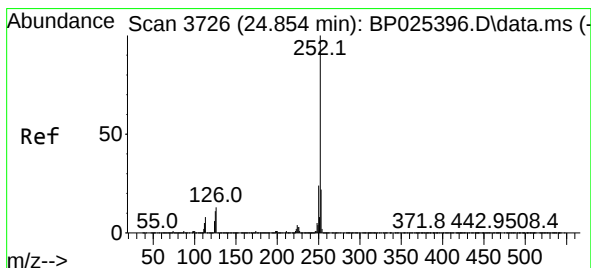
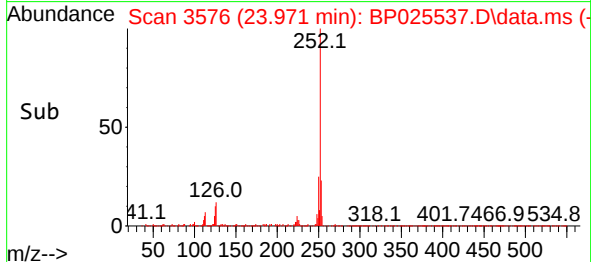
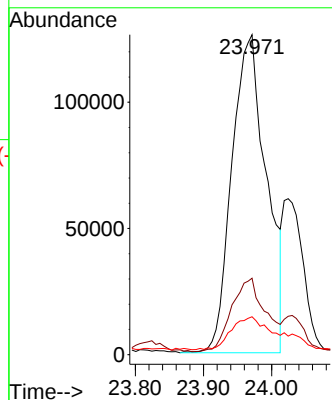
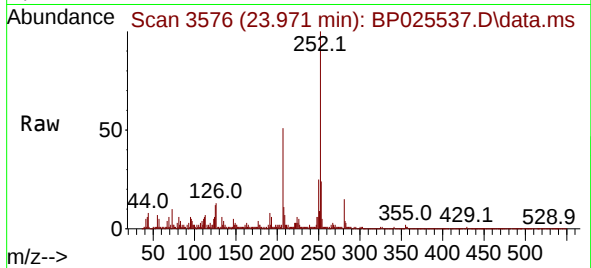




#88  
Benzo(b)fluoranthene  
Concen: 6.918 ng  
RT: 23.971 min Scan# 3576  
Delta R.T. 0.018 min  
Lab File: BP025537.D  
Acq: 21 Aug 2025 12:53

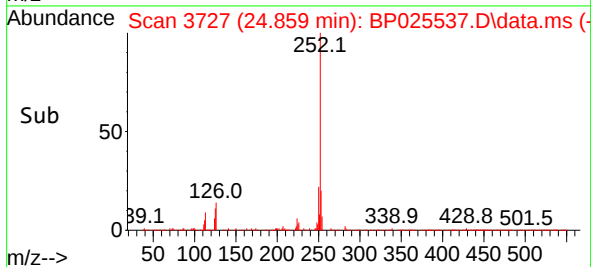
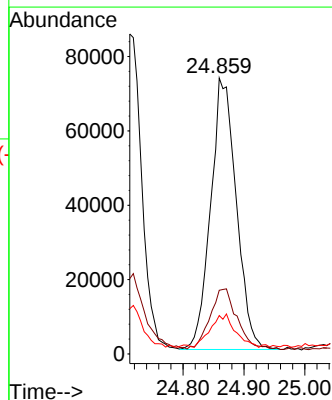
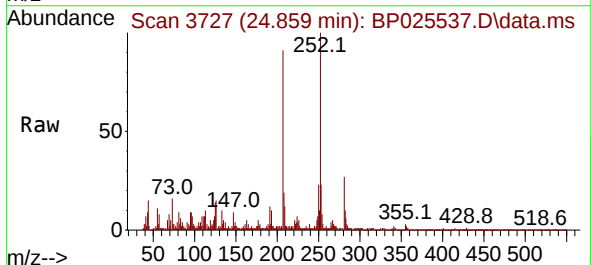
Instrument :  
BNA\_P  
ClientSampleId :

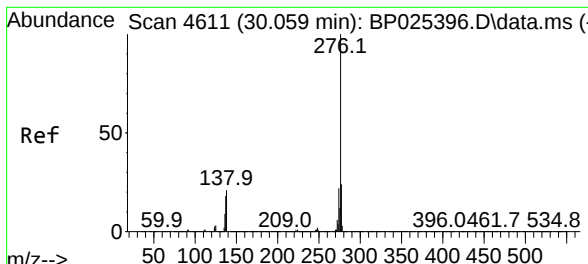
Tgt Ion:252 Resp: 443701  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.7 26.5  
125 11.9 7.9 11.9



#90  
Benzo(a)pyrene  
Concen: 3.420 ng  
RT: 24.859 min Scan# 3727  
Delta R.T. 0.006 min  
Lab File: BP025537.D  
Acq: 21 Aug 2025 12:53

Tgt Ion:252 Resp: 213524  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.5 26.3  
125 13.9 8.7 13.1#





#92  
 Benzo(g,h,i)perylene  
 Concen: 3.075 ng  
 RT: 30.024 min Scan# 4  
 Delta R.T. -0.035 min  
 Lab File: BP025537.D  
 Acq: 21 Aug 2025 12:53

Instrument :  
 BNA\_P  
 ClientSampleId :

Tgt Ion: 276 Resp: 197045

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 23.8  | 19.4  | 29.0  |
| 138 | 22.6  | 16.7  | 25.1  |

