

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP091525\  
 Data File : BP025753.D  
 Acq On : 15 Sep 2025 15:48  
 Operator : CG/JU  
 Sample : Q3082-09DL 50X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 WC-33DL

Quant Time: Sep 15 16:11:01 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP091225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 11 16:45:04 2025  
 Response via : Initial Calibration

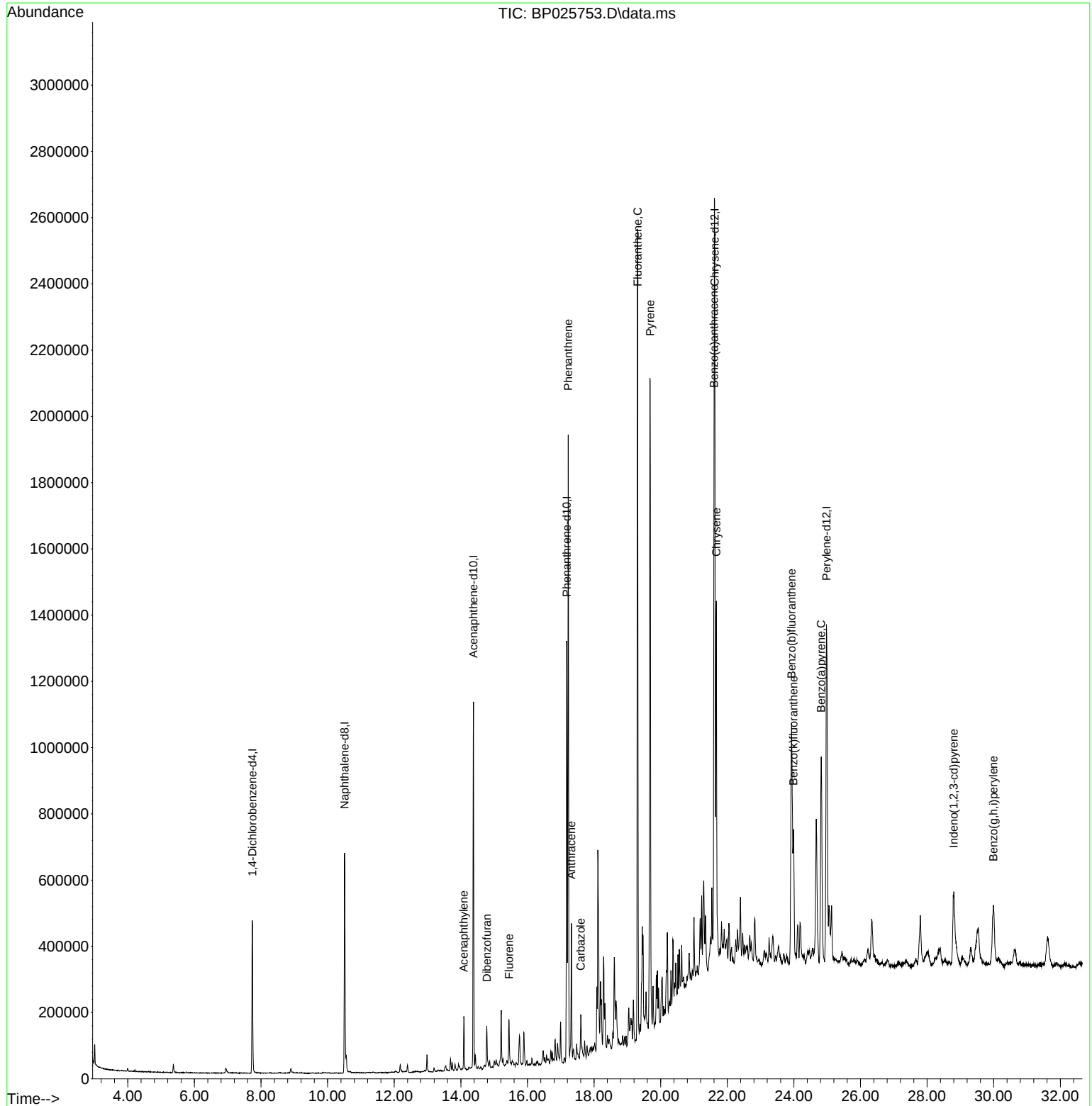
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.737  | 152  | 134147   | 20.000 | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.508 | 136  | 540681   | 20.000 | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.378 | 164  | 371654   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.178 | 188  | 804119   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.619 | 240  | 1017299  | 20.000 | ng    | -0.02    |
| 86) Perylene-d12            | 24.977 | 264  | 1114879  | 20.000 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.367  | 112  | 11569    | 1.392  | ng    | -0.02    |
| 7) Phenol-d6                | 6.949  | 99   | 14157    | 1.281  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.896  | 82   | 10258    | 0.837  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.895 | 330  | 7186     | 1.550  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 12.984 | 172  | 27465    | 0.984  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.901 | 244  | 71342    | 1.262  | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 14.090 | 152  | 111443   | 3.131  | ng    | 98       |
| 55) Dibenzofuran            | 14.778 | 168  | 69307    | 2.072  | ng    | 97       |
| 58) Fluorene                | 15.448 | 166  | 61527    | 2.313  | ng    | 97       |
| 71) Phenanthrene            | 17.225 | 178  | 1130543  | 24.785 | ng    | 100      |
| 72) Anthracene              | 17.319 | 178  | 281373   | 6.080  | ng    | 98       |
| 73) Carbazole               | 17.601 | 167  | 98977    | 2.300  | ng    | 99       |
| 75) Fluoranthene            | 19.307 | 202  | 1600105  | 29.249 | ng    | 100      |
| 78) Pyrene                  | 19.683 | 202  | 1508765  | 22.227 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.601 | 228  | 869686   | 12.487 | ng    | 99       |
| 83) Chrysene                | 21.672 | 228  | 796520   | 11.998 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 28.801 | 276  | 369173   | 4.553  | ng    | # 79     |
| 88) Benzo(b)fluoranthene    | 23.930 | 252  | 878188   | 12.881 | ng    | 99       |
| 89) Benzo(k)fluoranthene    | 23.989 | 252  | 405274m  | 5.825  | ng    |          |
| 90) Benzo(a)pyrene          | 24.819 | 252  | 674943   | 10.109 | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 29.989 | 276  | 343486   | 5.264  | ng    | 96       |
| -----                       |        |      |          |        |       |          |

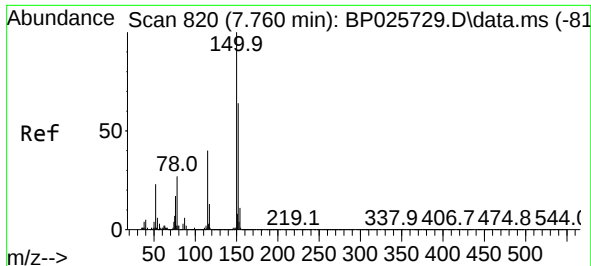
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_P  
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WC-33DL

Quant Time: Sep 15 16:11:01 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP091225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 11 16:45:04 2025  
Response via : Initial Calibration

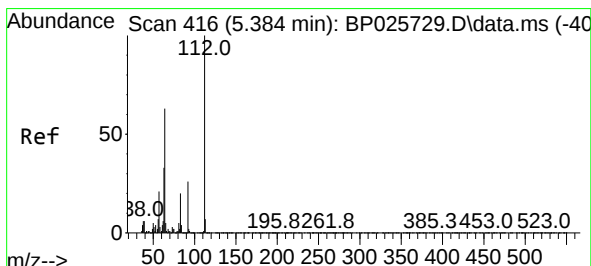
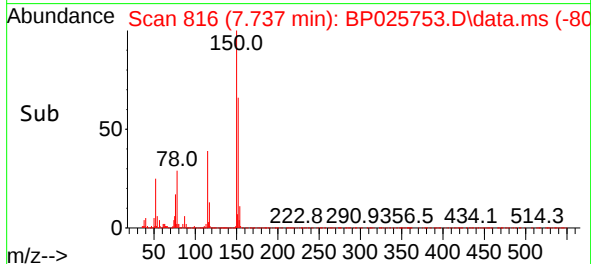
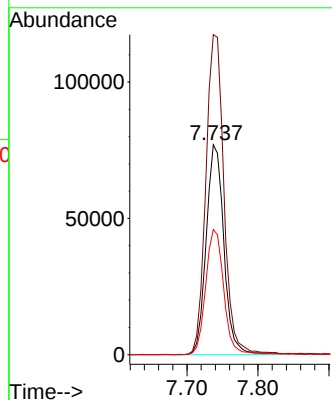
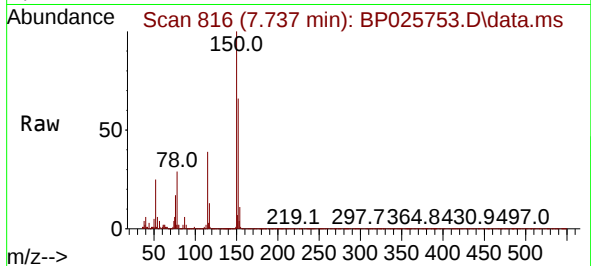




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.737 min Scan# 81  
Delta R.T. -0.023 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

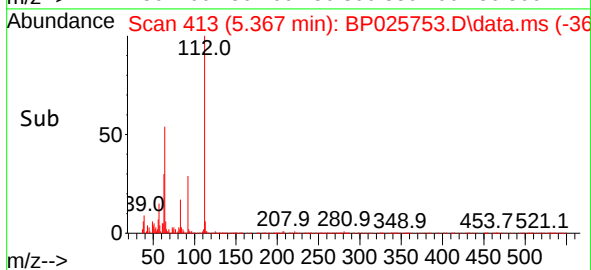
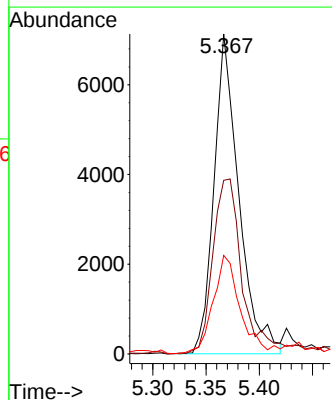
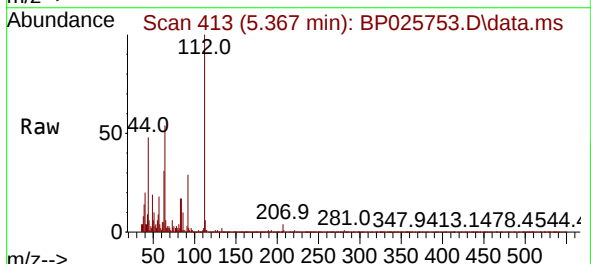
Instrument :  
BNA\_P  
ClientSampleId :  
WC-33DL

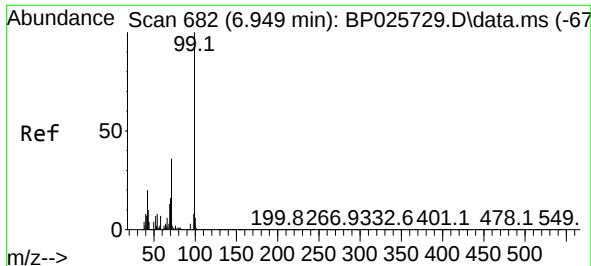
Tgt Ion:152 Resp: 134147  
Ion Ratio Lower Upper  
152 100  
150 152.4 124.3 186.5  
115 59.6 50.3 75.5



#5  
2-Fluorophenol  
Concen: 1.392 ng  
RT: 5.367 min Scan# 413  
Delta R.T. -0.018 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

Tgt Ion:112 Resp: 11569  
Ion Ratio Lower Upper  
112 100  
64 54.3 50.2 75.4  
63 30.8 26.7 40.1

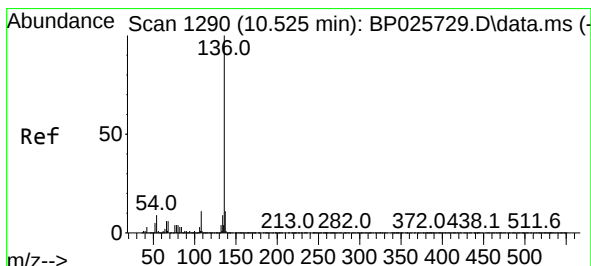
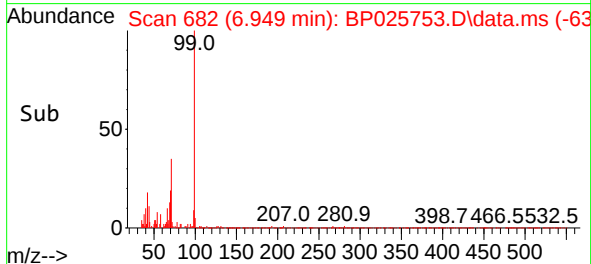
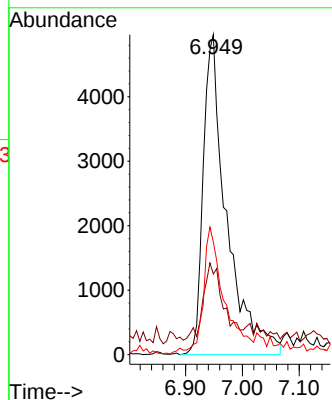
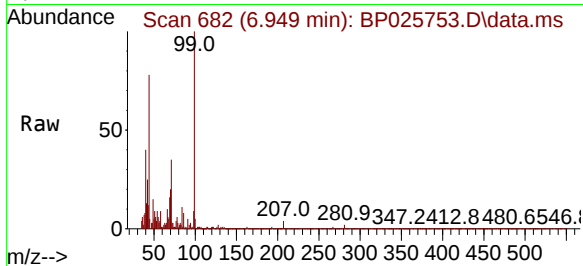




#7  
Phenol-d6  
Concen: 1.281 ng  
RT: 6.949 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

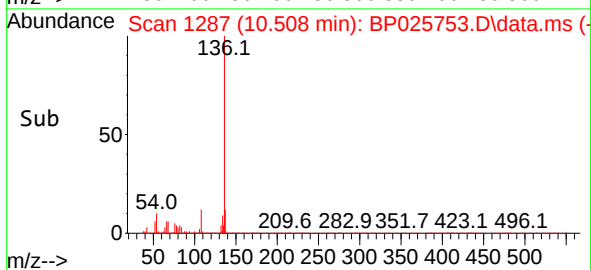
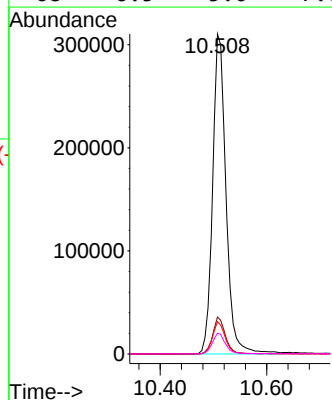
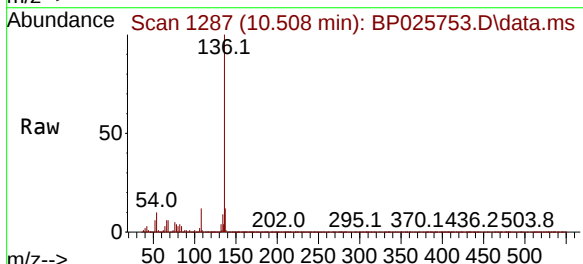
Instrument :  
BNA\_P  
ClientSampleId :  
WC-33DL

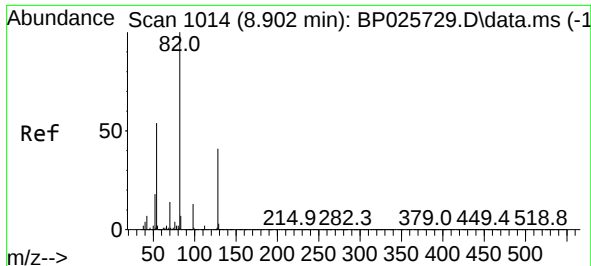
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 14157 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 25.2  | 15.6  | 23.4# |
| 71       | 35.2  | 28.6  | 43.0  |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.508 min Scan# 1287  
Delta R.T. -0.018 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 540681 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.5  | 8.7   | 13.1   |
| 54       | 10.1  | 7.5   | 11.3   |
| 68       | 6.5   | 5.0   | 7.6    |

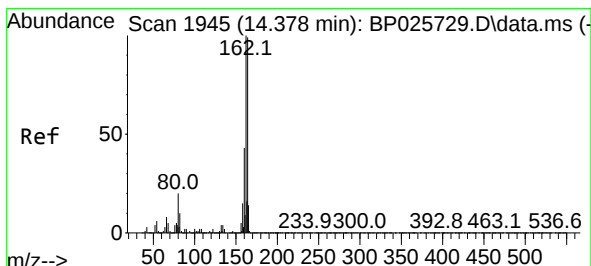
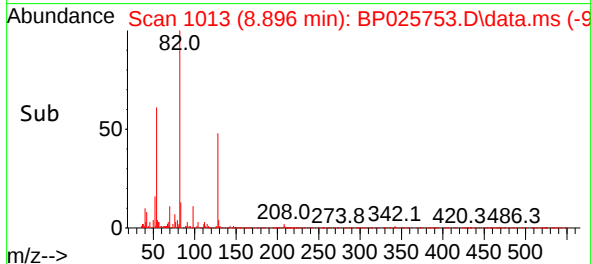
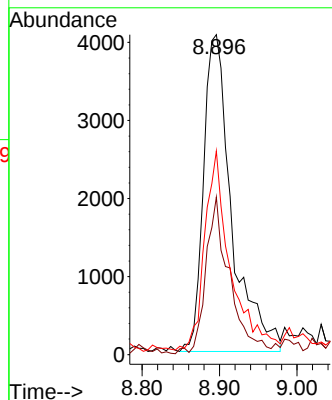
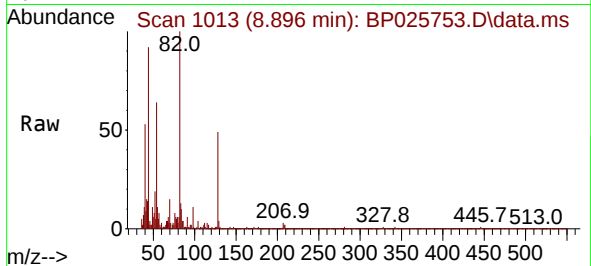




#23  
Nitrobenzene-d5  
Concen: 0.837 ng  
RT: 8.896 min Scan# 1013  
Delta R.T. -0.006 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

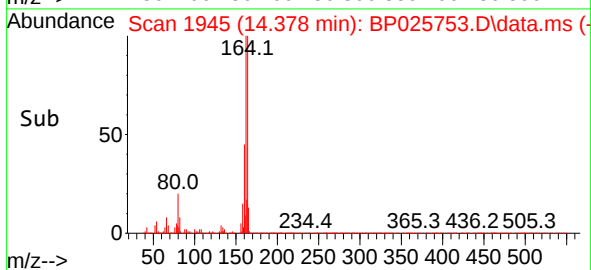
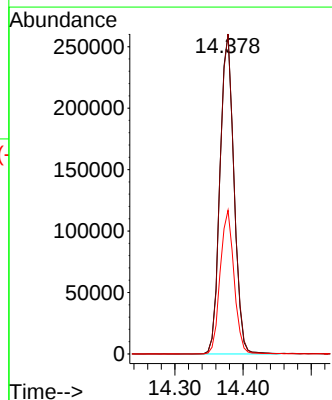
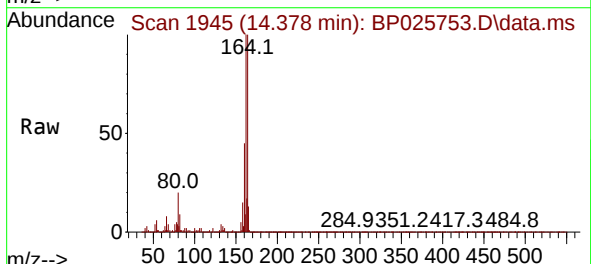
Instrument :  
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ClientSampleId :  
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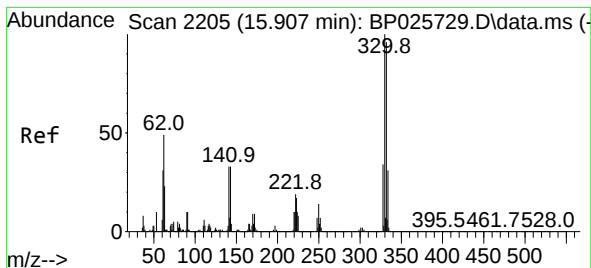
Tgt Ion: 82 Resp: 10258  
Ion Ratio Lower Upper  
82 100  
128 49.2 32.9 49.3  
54 63.6 43.4 65.2



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.378 min Scan# 1945  
Delta R.T. 0.000 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

Tgt Ion:164 Resp: 371654  
Ion Ratio Lower Upper  
164 100  
162 100.0 80.6 120.8  
160 44.9 35.0 52.6





#42

2,4,6-Tribromophenol

Concen: 1.550 ng

RT: 15.895 min Scan# 21

Delta R.T. -0.012 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

Instrument :

BNA\_P

ClientSampleId :

WC-33DL

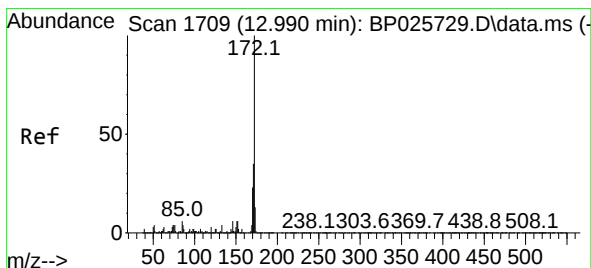
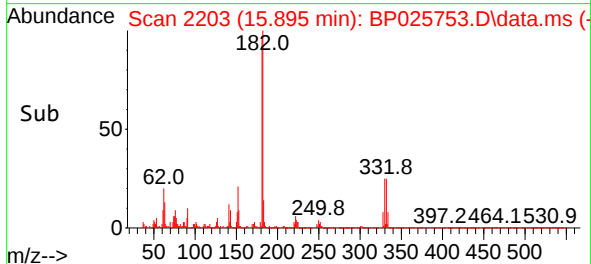
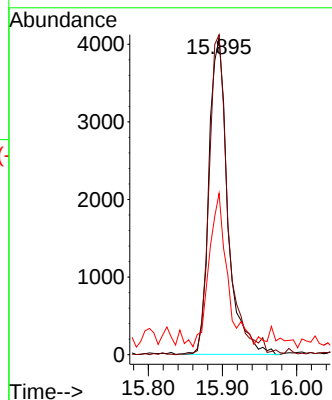
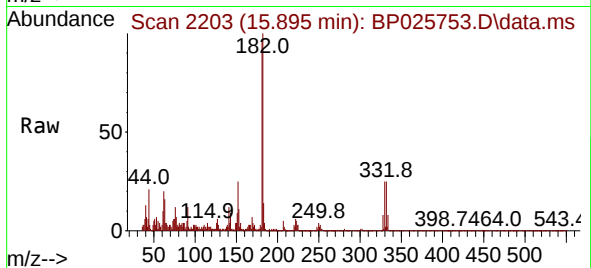
Tgt Ion:330 Resp: 7186

Ion Ratio Lower Upper

330 100

332 101.3 76.9 115.3

141 46.9 31.0 46.4#



#45

2-Fluorobiphenyl

Concen: 0.984 ng

RT: 12.984 min Scan# 1708

Delta R.T. -0.006 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

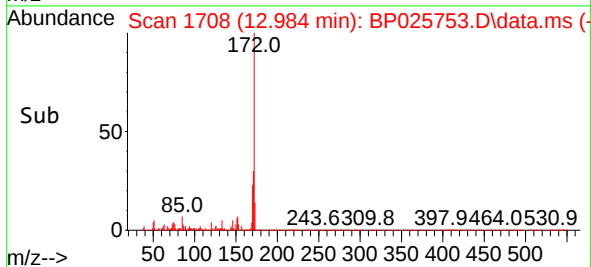
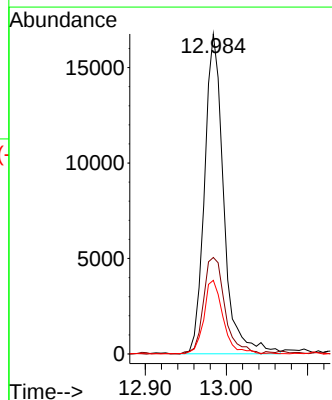
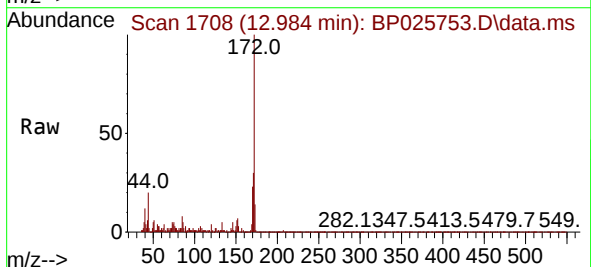
Tgt Ion:172 Resp: 27465

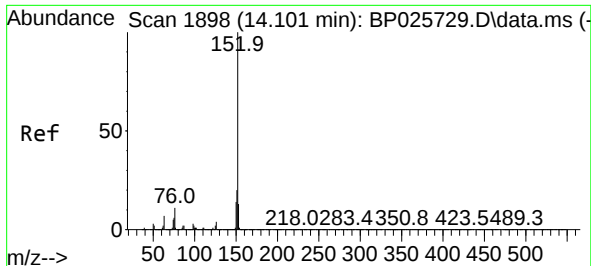
Ion Ratio Lower Upper

172 100

171 30.1 27.8 41.6

170 23.0 18.6 27.8

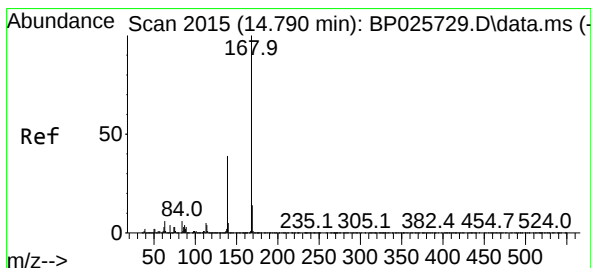
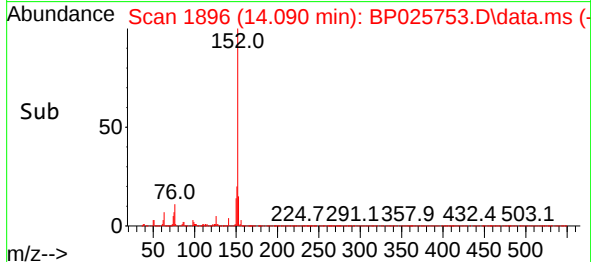
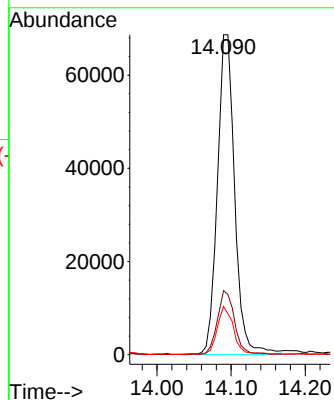
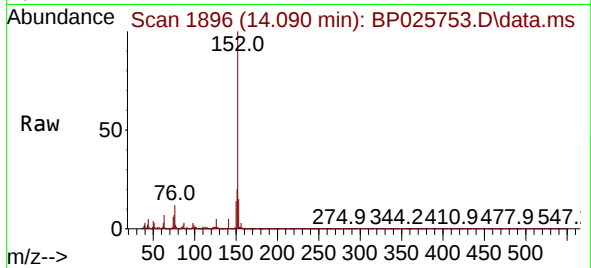




#49  
Acenaphthylene  
Concen: 3.131 ng  
RT: 14.090 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

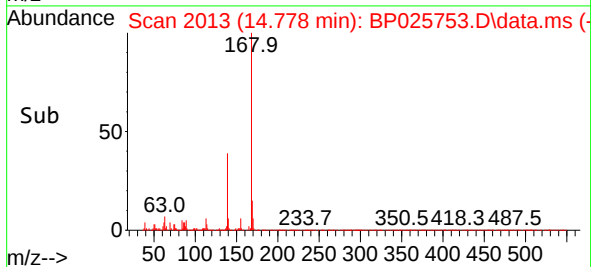
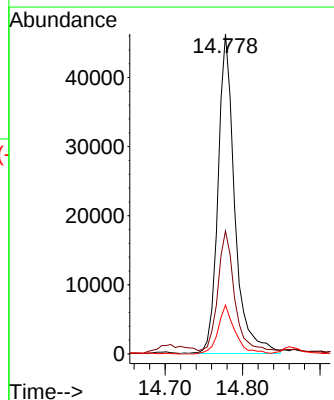
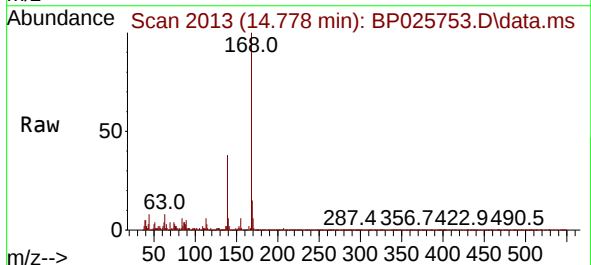
Instrument :  
BNA\_P  
ClientSampleId :  
WC-33DL

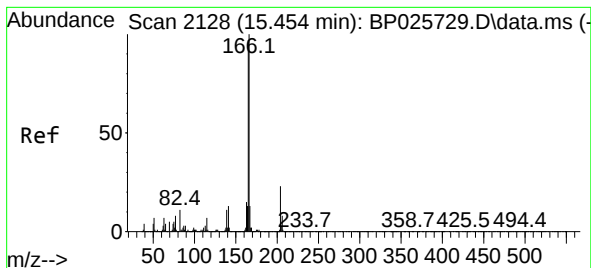
Tgt Ion:152 Resp: 111443  
Ion Ratio Lower Upper  
152 100  
151 20.0 15.8 23.6  
153 15.1 10.5 15.7



#55  
Dibenzofuran  
Concen: 2.072 ng  
RT: 14.778 min Scan# 2013  
Delta R.T. -0.012 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

Tgt Ion:168 Resp: 69307  
Ion Ratio Lower Upper  
168 100  
139 38.5 31.7 47.5  
169 15.3 10.8 16.2





#58

Fluorene

Concen: 2.313 ng

RT: 15.448 min Scan# 2127

Delta R.T. -0.006 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

Instrument :

BNA\_P

ClientSampleId :

WC-33DL

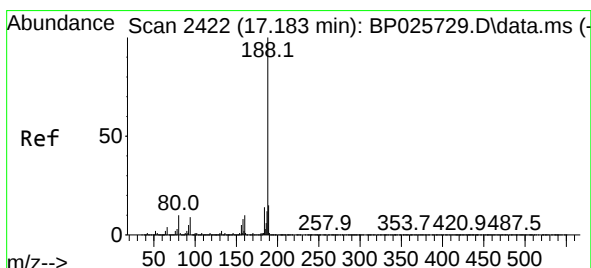
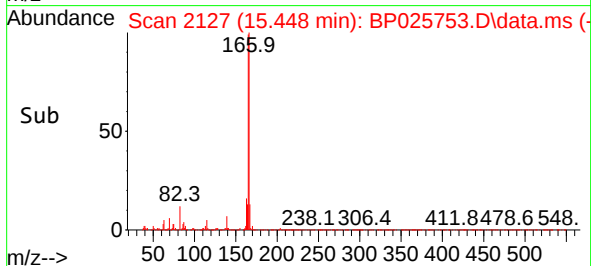
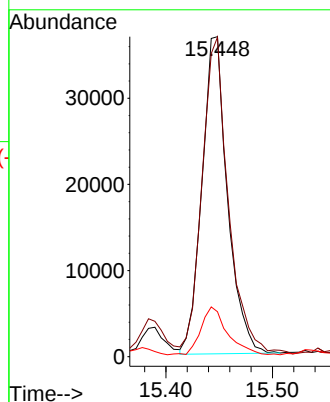
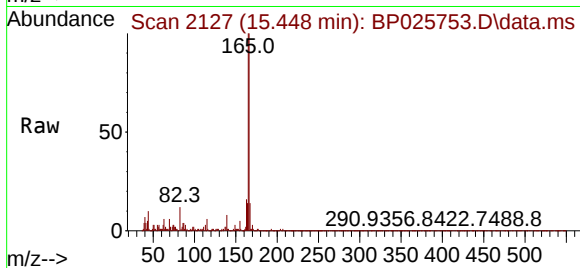
Tgt Ion:166 Resp: 61527

Ion Ratio Lower Upper

166 100

165 99.8 77.7 116.5

167 14.1 10.6 16.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.178 min Scan# 2421

Delta R.T. -0.006 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

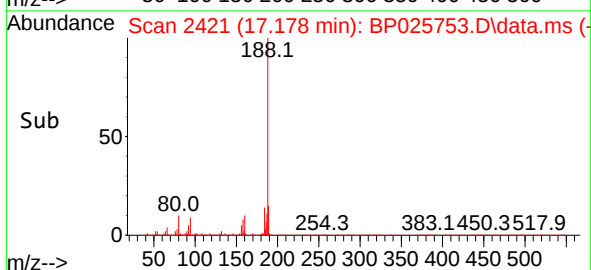
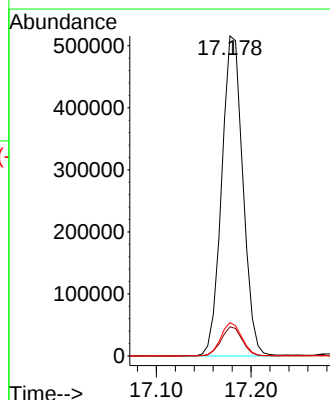
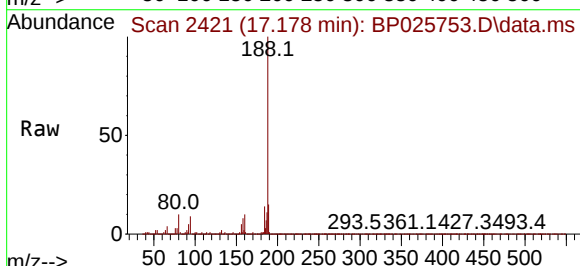
Tgt Ion:188 Resp: 804119

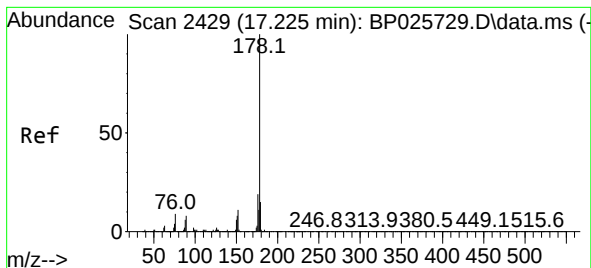
Ion Ratio Lower Upper

188 100

94 9.1 7.4 11.0

80 10.4 7.7 11.5





#71

Phenanthrene

Concen: 24.785 ng

RT: 17.225 min Scan# 2429

Delta R.T. 0.000 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

Instrument :

BNA\_P

ClientSampleId :

WC-33DL

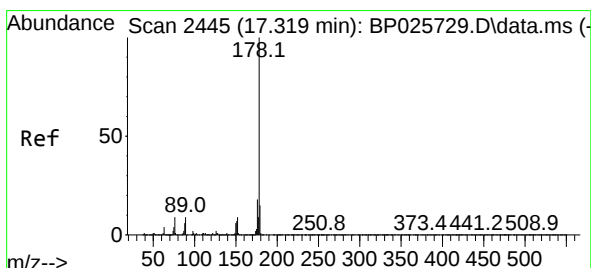
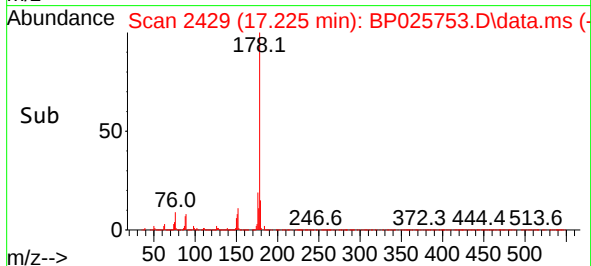
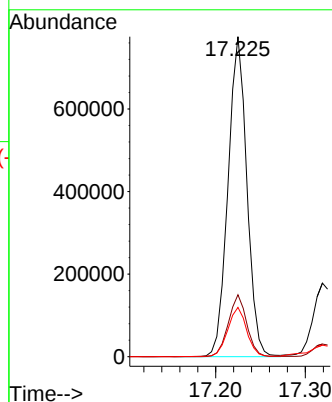
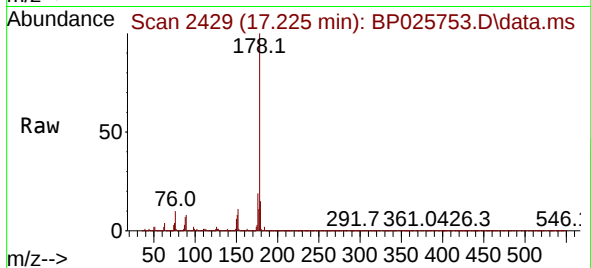
Tgt Ion:178 Resp: 1130543

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.4 12.2 18.4



#72

Anthracene

Concen: 6.080 ng

RT: 17.319 min Scan# 2445

Delta R.T. 0.000 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

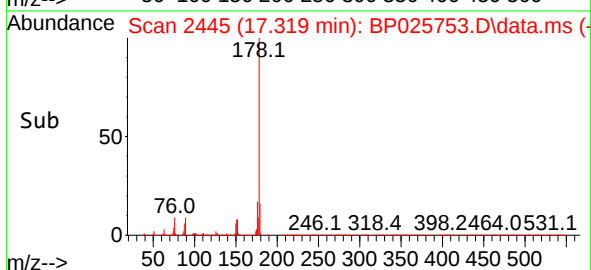
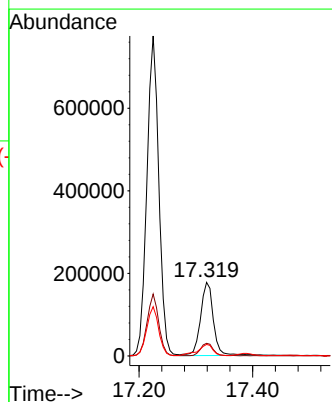
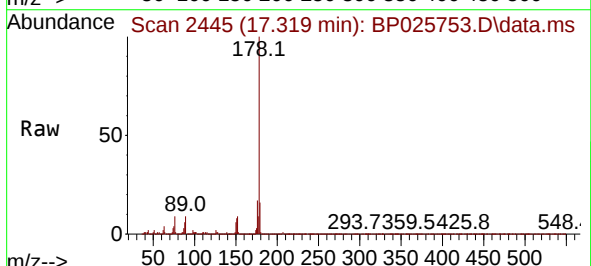
Tgt Ion:178 Resp: 281373

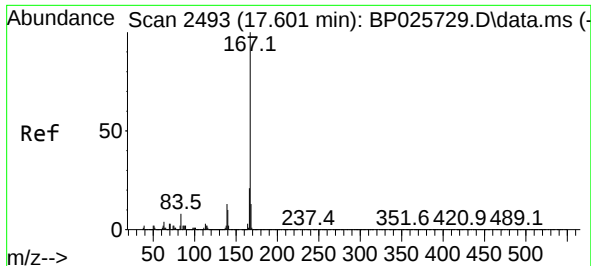
Ion Ratio Lower Upper

178 100

176 17.1 14.8 22.2

179 15.7 12.2 18.4

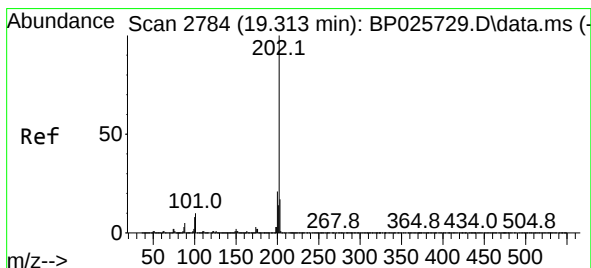
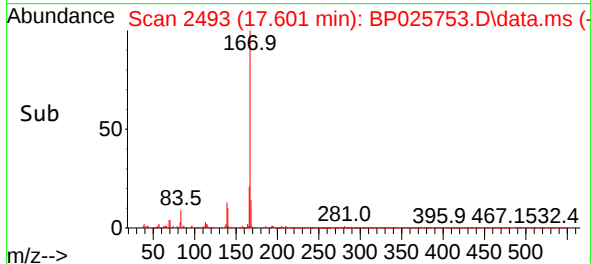
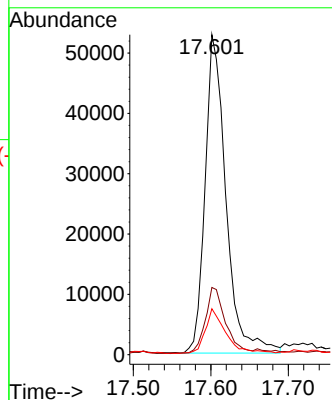
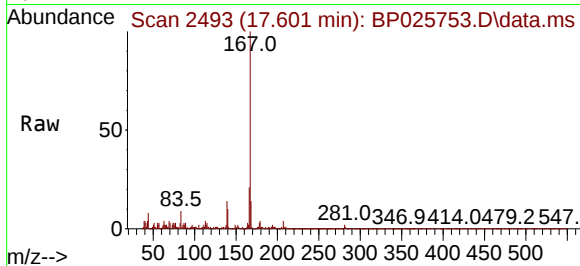




#73  
 Carbazole  
 Concen: 2.300 ng  
 RT: 17.601 min Scan# 2493  
 Delta R.T. 0.000 min  
 Lab File: BP025753.D  
 Acq: 15 Sep 2025 15:48

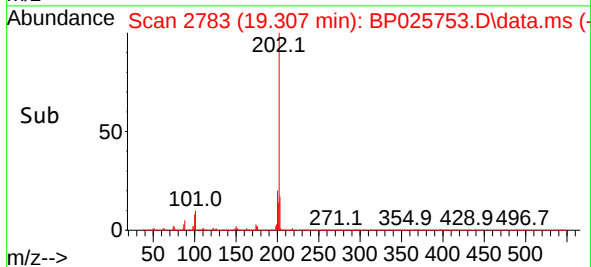
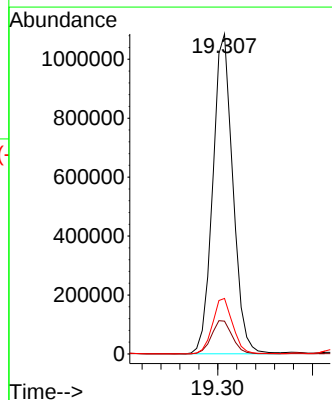
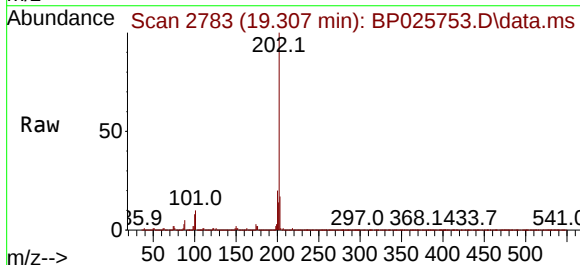
Instrument :  
 BNA\_P  
 ClientSampleId :  
 WC-33DL

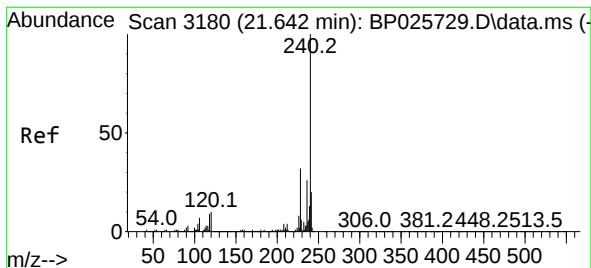
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 98977 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 21.0  | 17.0  | 25.4  |
| 139       | 14.3  | 10.6  | 16.0  |



#75  
 Fluoranthene  
 Concen: 29.249 ng  
 RT: 19.307 min Scan# 2783  
 Delta R.T. -0.006 min  
 Lab File: BP025753.D  
 Acq: 15 Sep 2025 15:48

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1600105 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.3  | 0.0   | 30.4    |
| 203       | 17.3  | 0.0   | 37.4    |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.619 min Scan# 31

Delta R.T. -0.023 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

Instrument :

BNA\_P

ClientSampleId :

WC-33DL

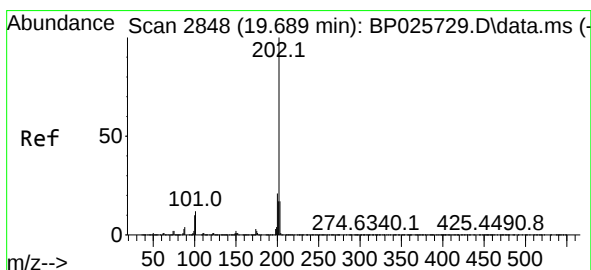
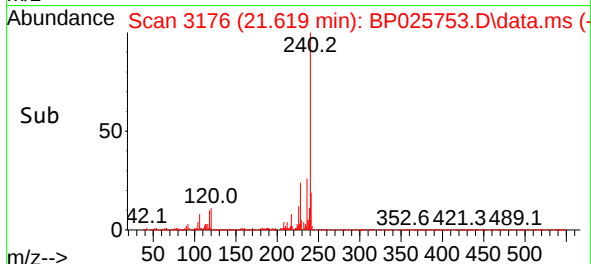
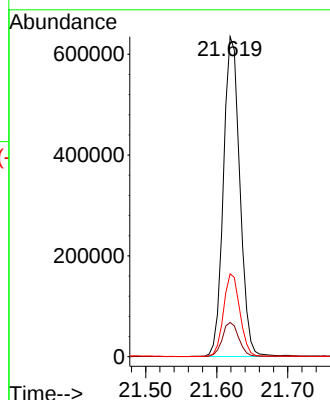
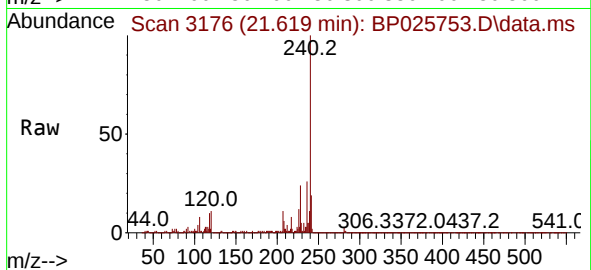
Tgt Ion:240 Resp: 1017299

Ion Ratio Lower Upper

240 100

120 10.7 8.0 12.0

236 25.9 20.7 31.1



#78

Pyrene

Concen: 22.227 ng

RT: 19.683 min Scan# 2847

Delta R.T. -0.006 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

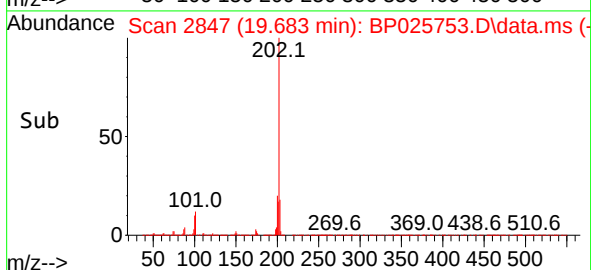
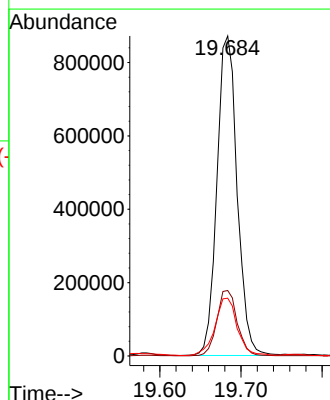
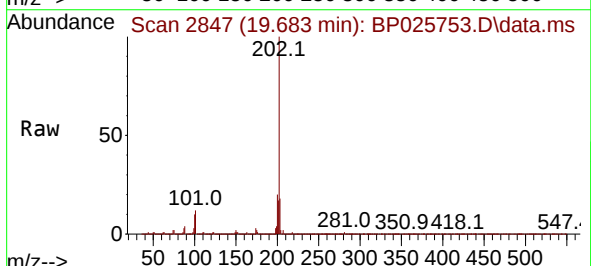
Tgt Ion:202 Resp: 1508765

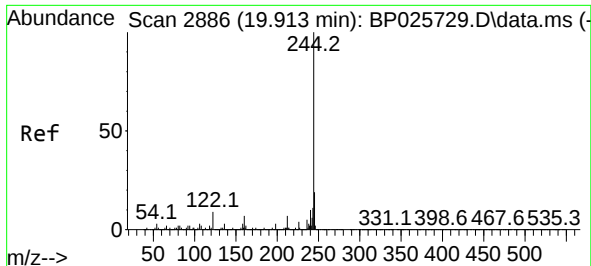
Ion Ratio Lower Upper

202 100

200 20.5 17.0 25.6

203 18.1 13.9 20.9

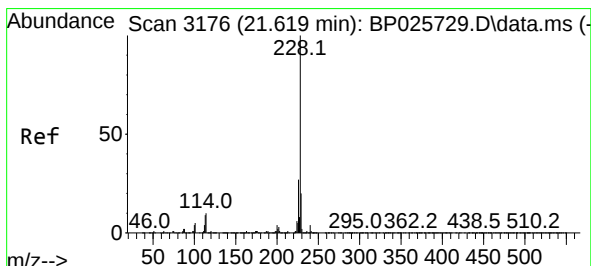
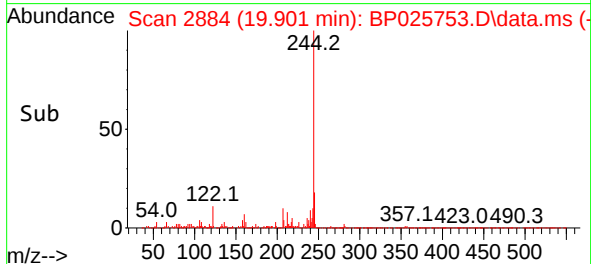
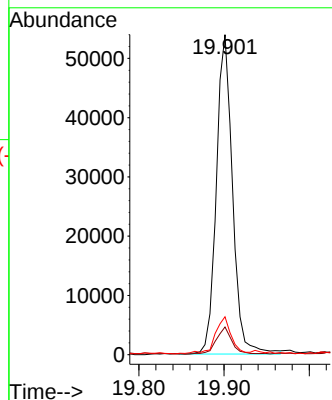
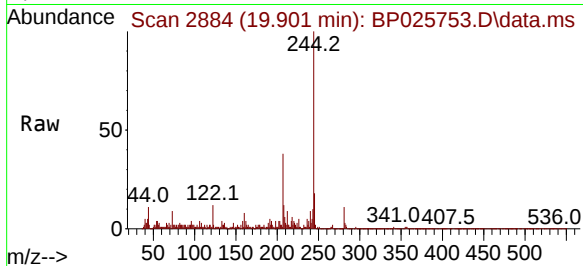




#79  
Terphenyl-d14  
Concen: 1.262 ng  
RT: 19.901 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

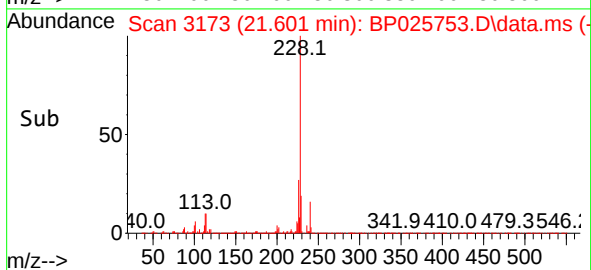
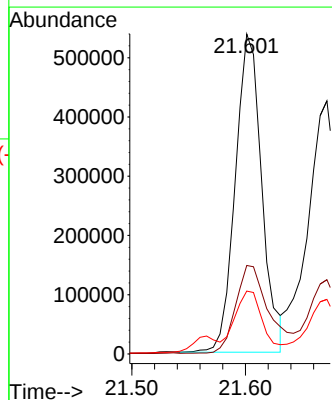
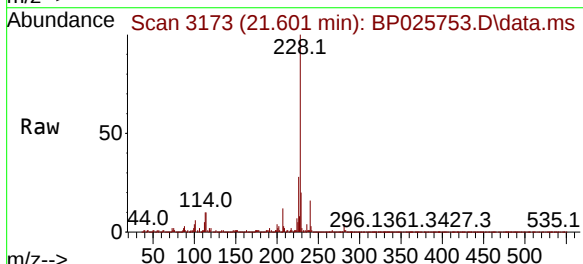
Instrument :  
BNA\_P  
ClientSampleId :  
WC-33DL

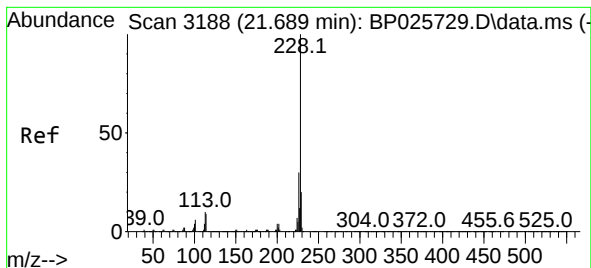
Tgt Ion:244 Resp: 71342  
Ion Ratio Lower Upper  
244 100  
212 8.7 5.9 8.9  
122 11.8 7.1 10.7#



#81  
Benzo(a)anthracene  
Concen: 12.487 ng  
RT: 21.601 min Scan# 3173  
Delta R.T. -0.018 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

Tgt Ion:228 Resp: 869686  
Ion Ratio Lower Upper  
228 100  
226 27.7 21.6 32.4  
229 19.7 15.7 23.5





#83

Chrysene

Concen: 11.998 ng

RT: 21.672 min Scan# 31

Delta R.T. -0.018 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

Instrument :

BNA\_P

ClientSampleId :

WC-33DL

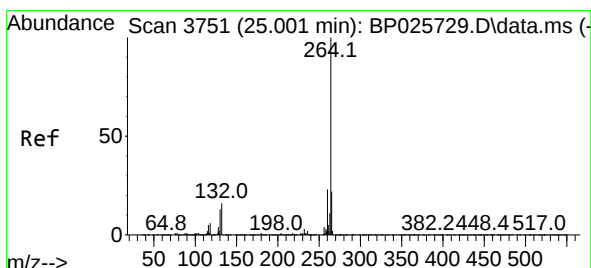
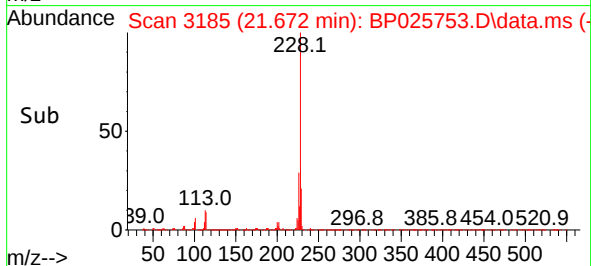
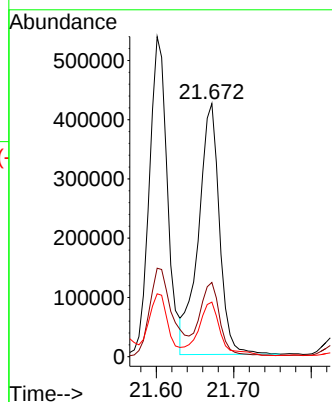
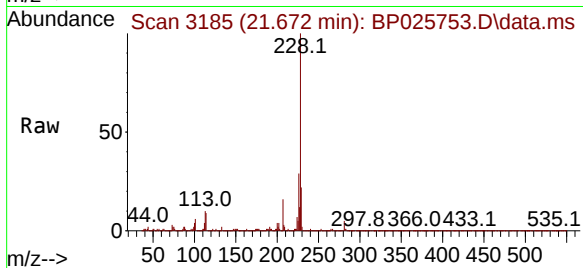
Tgt Ion:228 Resp: 796520

Ion Ratio Lower Upper

228 100

226 29.3 23.8 35.6

229 21.6 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.977 min Scan# 3747

Delta R.T. -0.023 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

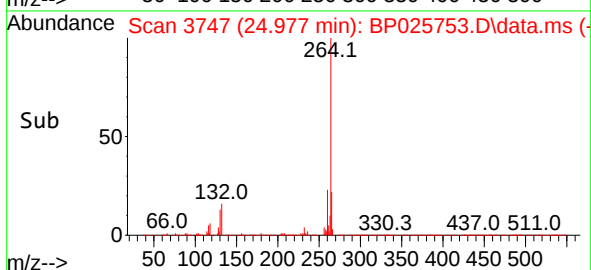
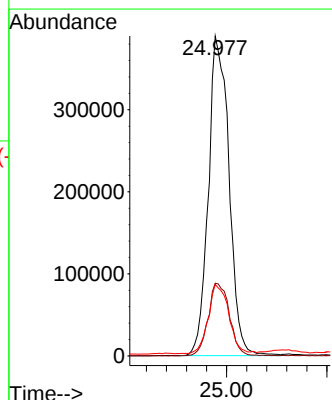
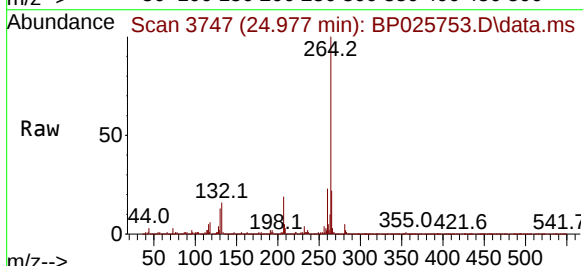
Tgt Ion:264 Resp: 1114879

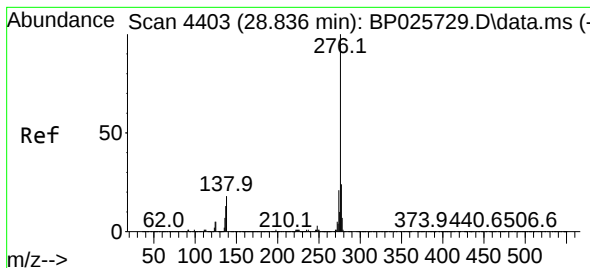
Ion Ratio Lower Upper

264 100

260 22.7 18.3 27.5

265 22.4 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.553 ng

RT: 28.801 min Scan# 41

Delta R.T. -0.035 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

Instrument :

BNA\_P

ClientSampleId :

WC-33DL

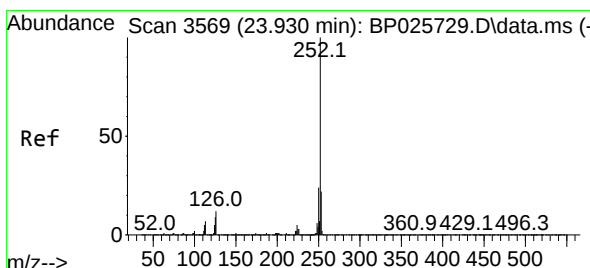
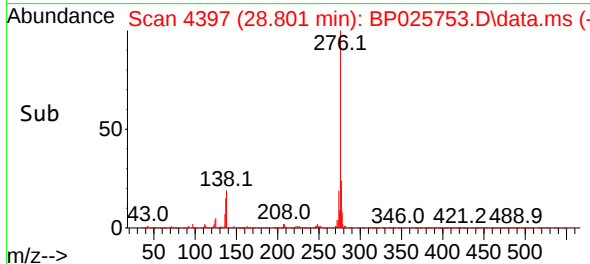
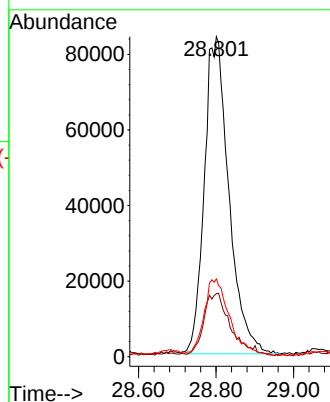
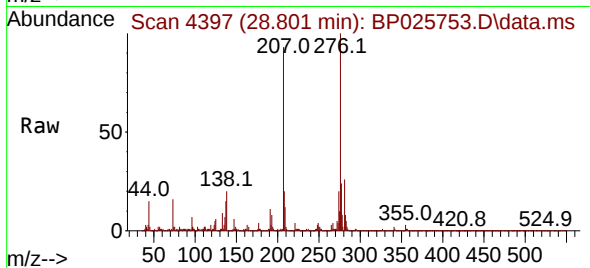
Tgt Ion:276 Resp: 369173

Ion Ratio Lower Upper

276 100

138 21.3 13.4 20.2#

277 25.2 9.1 13.7#



#88

Benzo(b)fluoranthene

Concen: 12.881 ng

RT: 23.930 min Scan# 3569

Delta R.T. 0.000 min

Lab File: BP025753.D

Acq: 15 Sep 2025 15:48

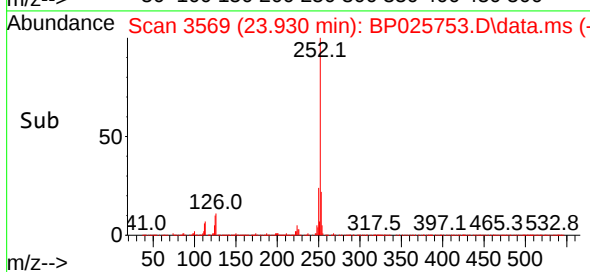
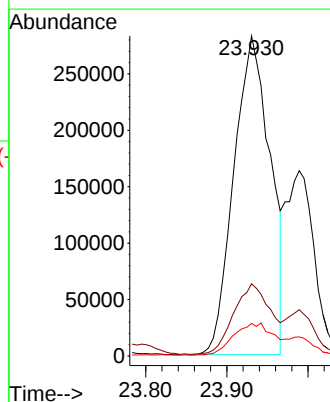
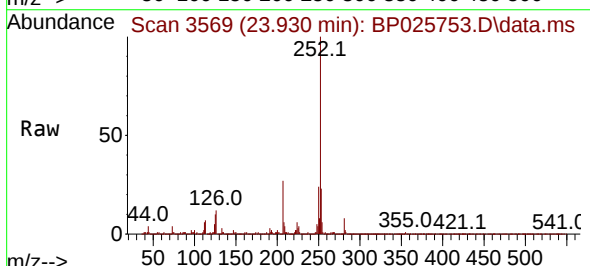
Tgt Ion:252 Resp: 878188

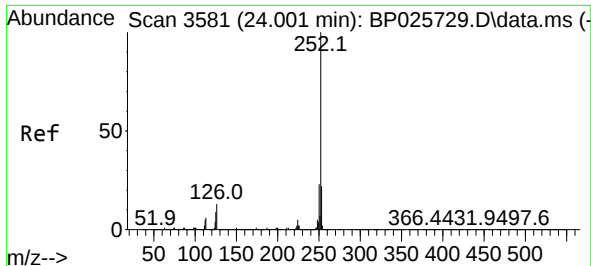
Ion Ratio Lower Upper

252 100

253 22.6 17.9 26.9

125 10.2 7.3 10.9

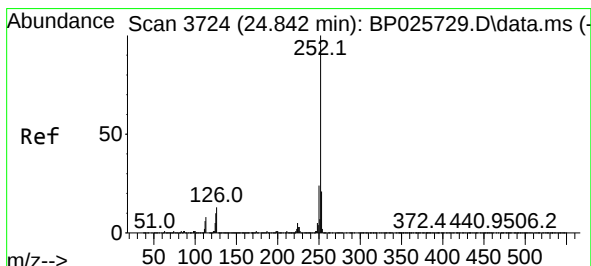
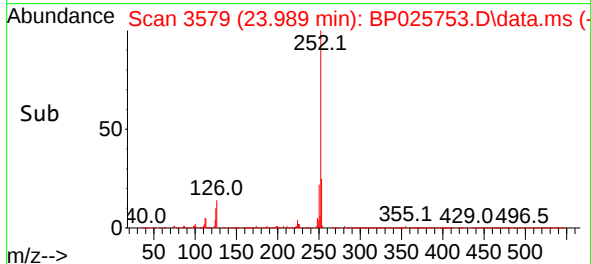
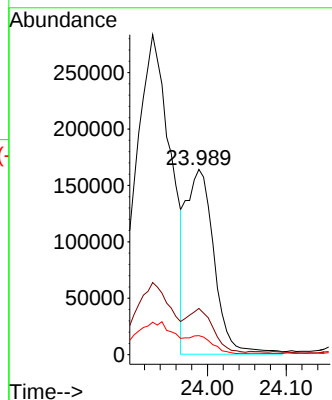
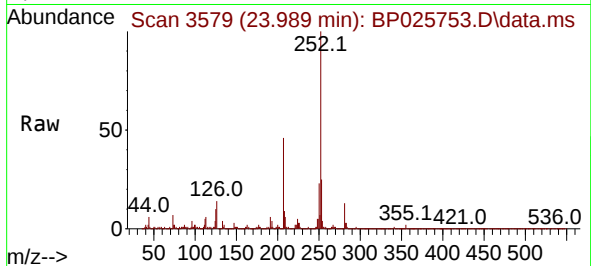




#89  
Benzo(k)fluoranthene  
Concen: 5.825 ng m  
RT: 23.989 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

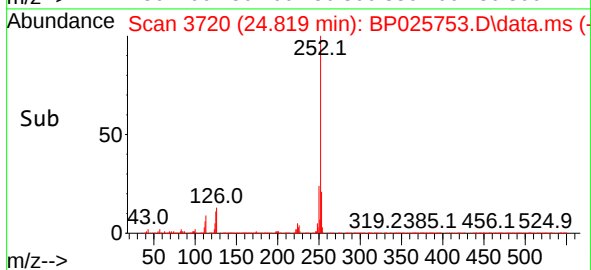
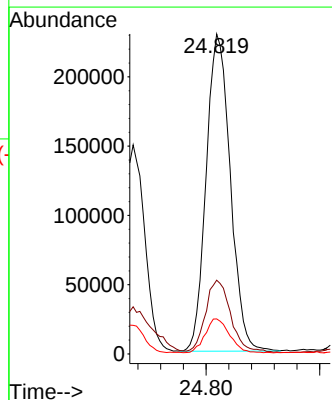
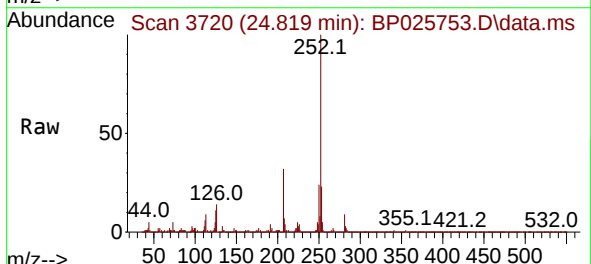
Instrument :  
BNA\_P  
ClientSampleId :  
WC-33DL

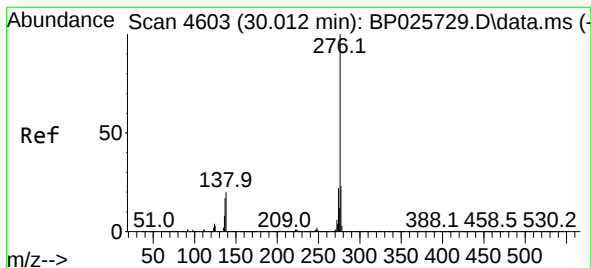
Tgt Ion:252 Resp: 405274  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.5 26.3  
125 10.3 7.5 11.3



#90  
Benzo(a)pyrene  
Concen: 10.109 ng  
RT: 24.819 min Scan# 3720  
Delta R.T. -0.023 min  
Lab File: BP025753.D  
Acq: 15 Sep 2025 15:48

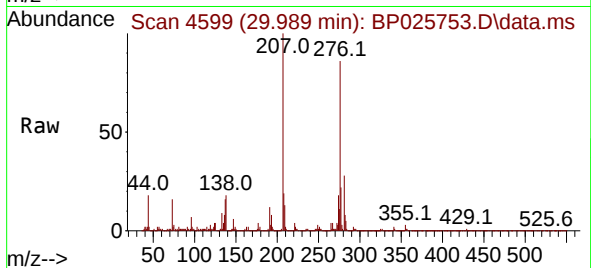
Tgt Ion:252 Resp: 674943  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.2 25.8  
125 10.9 8.3 12.5





#92  
 Benzo(g,h,i)perylene  
 Concen: 5.264 ng  
 RT: 29.989 min Scan# 41  
 Delta R.T. -0.023 min  
 Lab File: BP025753.D  
 Acq: 15 Sep 2025 15:48

Instrument :  
 BNA\_P  
 ClientSampleId :  
 WC-33DL



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 343486 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 25.8  | 18.7  | 28.1   |
| 138       | 21.4  | 16.0  | 24.0   |

