

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP072225\  
 Data File : BP025210.D  
 Acq On : 22 Jul 2025 11:51  
 Operator : CG/JU  
 Sample : Q2639-05  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :

Quant Time: Jul 22 12:58:21 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP072125.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 22 02:55:21 2025  
 Response via : Initial Calibration

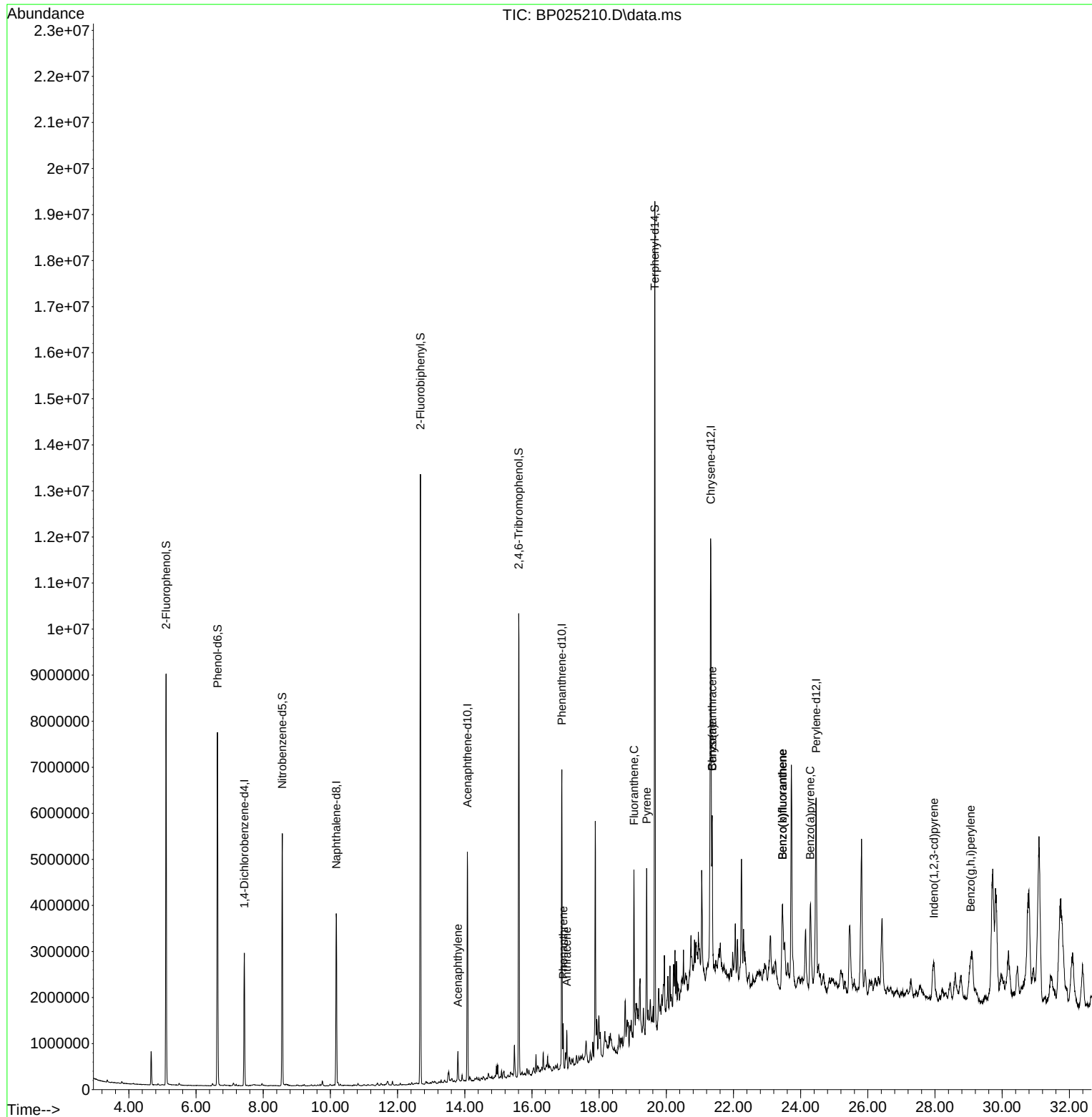
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.437  | 152  | 870169   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.172 | 136  | 3344284  | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.078 | 164  | 1975954  | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 16.889 | 188  | 3638856  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.324 | 240  | 3558679  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 24.460 | 264  | 4138303  | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.108  | 112  | 3955332  | 76.802 | ng    | 0.00     |
| 7) Phenol-d6                | 6.637  | 99   | 4880822  | 76.520 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.566  | 82   | 3022658  | 50.229 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.607 | 330  | 2274627  | 78.086 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.678 | 172  | 7321746  | 52.240 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.660 | 244  | 9342690  | 51.825 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 13.795 | 152  | 540510   | 2.988  | ng    | 100      |
| 71) Phenanthrene            | 16.931 | 178  | 620121   | 3.160  | ng    | 100      |
| 72) Anthracene              | 17.036 | 178  | 420458   | 2.127  | ng    | 98       |
| 75) Fluoranthene            | 19.036 | 202  | 1872149  | 8.105  | ng    | 99       |
| 78) Pyrene                  | 19.413 | 202  | 2367877  | 10.791 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.366 | 228  | 1784185  | 7.939  | ng    | 94       |
| 83) Chrysene                | 21.366 | 228  | 1784185  | 8.505  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 27.971 | 276  | 1259500  | 4.165  | ng    | # 95     |
| 88) Benzo(b)fluoranthene    | 23.460 | 252  | 2032653  | 8.581  | ng    | # 96     |
| 89) Benzo(k)fluoranthene    | 23.460 | 252  | 2032653  | 8.692  | ng    | # 95     |
| 90) Benzo(a)pyrene          | 24.289 | 252  | 1794768  | 7.766  | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 29.059 | 276  | 1256583  | 5.182  | ng    | 96       |
| -----                       |        |      |          |        |       |          |

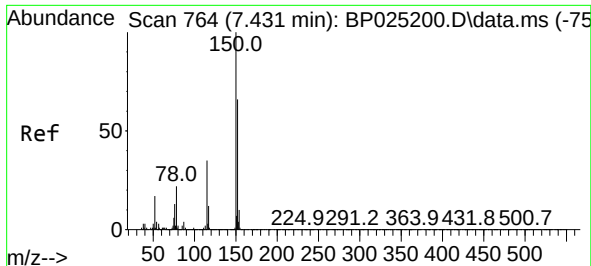
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP072225\  
Data File : BP025210.D  
Acq On : 22 Jul 2025 11:51  
Operator : CG/JU  
Sample : Q2639-05  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :

Quant Time: Jul 22 12:58:21 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP072125.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 22 02:55:21 2025  
Response via : Initial Calibration

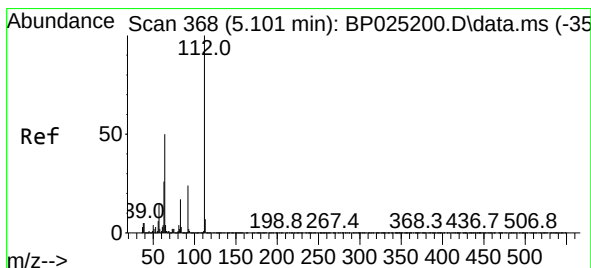
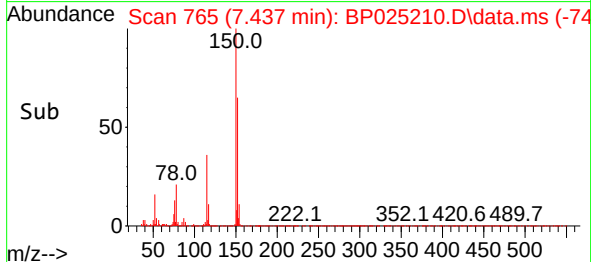
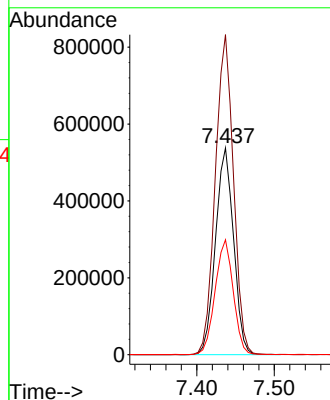
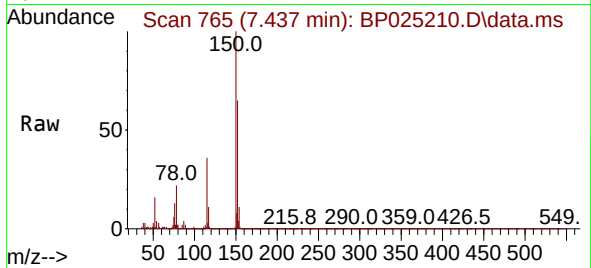




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.437 min Scan# 70  
 Delta R.T. 0.006 min  
 Lab File: BP025210.D  
 Acq: 22 Jul 2025 11:51

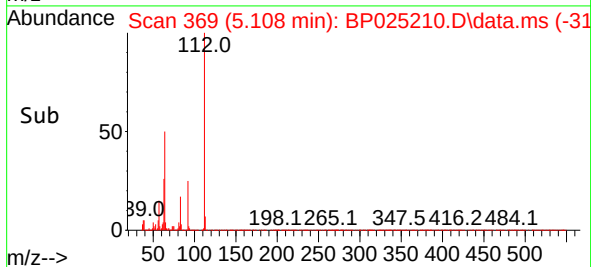
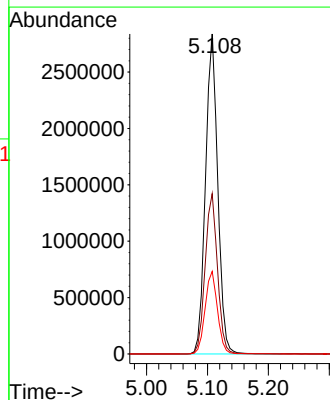
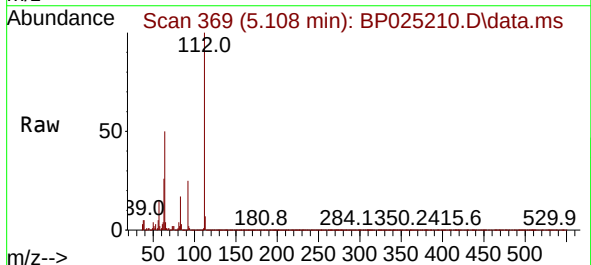
Instrument :  
 BNA\_P  
 ClientSampleId :

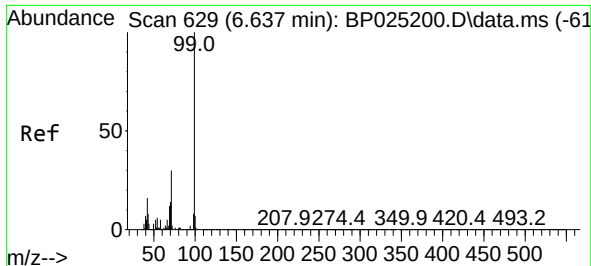
Tgt Ion:152 Resp: 870169  
 Ion Ratio Lower Upper  
 152 100  
 150 154.8 121.9 182.9  
 115 55.6 43.0 64.6



#5  
 2-Fluorophenol  
 Concen: 76.802 ng  
 RT: 5.108 min Scan# 369  
 Delta R.T. 0.006 min  
 Lab File: BP025210.D  
 Acq: 22 Jul 2025 11:51

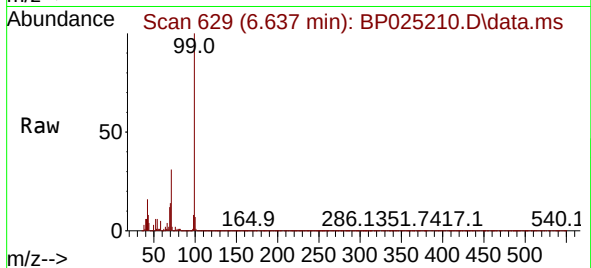
Tgt Ion:112 Resp: 3955332  
 Ion Ratio Lower Upper  
 112 100  
 64 50.1 39.8 59.6  
 63 25.8 20.5 30.7





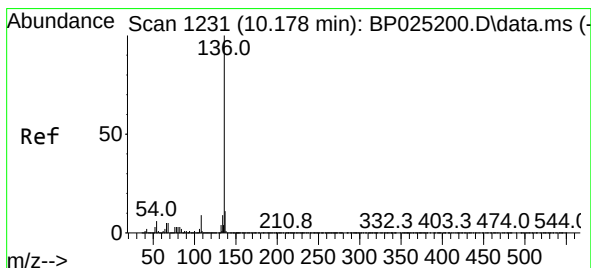
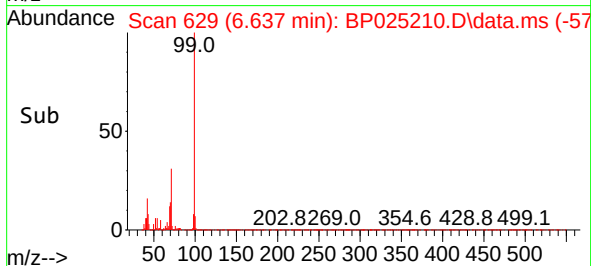
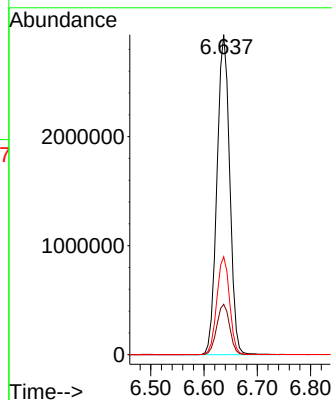
#7  
Phenol-d6  
Concen: 76.520 ng  
RT: 6.637 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

Instrument :  
BNA\_P  
ClientSampleId :



Tgt Ion: 99 Resp: 4880822

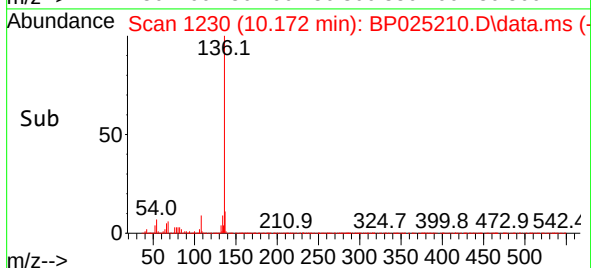
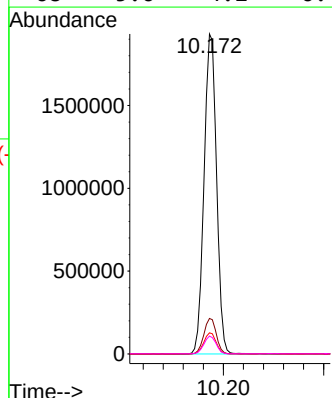
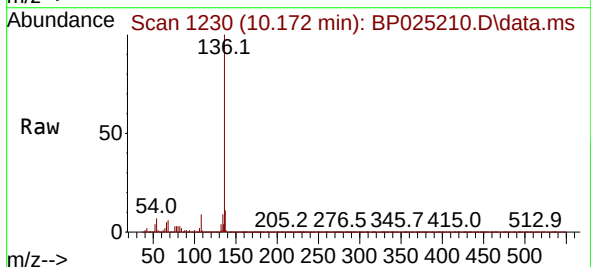
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.7  | 12.5  | 18.7  |
| 71  | 30.6  | 24.2  | 36.2  |

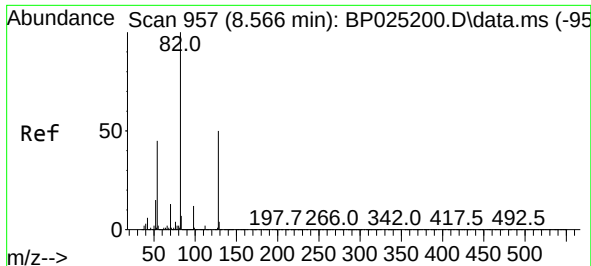


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.172 min Scan# 1230  
Delta R.T. -0.006 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

Tgt Ion: 136 Resp: 3344284

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.1  | 8.8   | 13.2  |
| 54  | 6.6   | 5.1   | 7.7   |
| 68  | 5.6   | 4.2   | 6.4   |

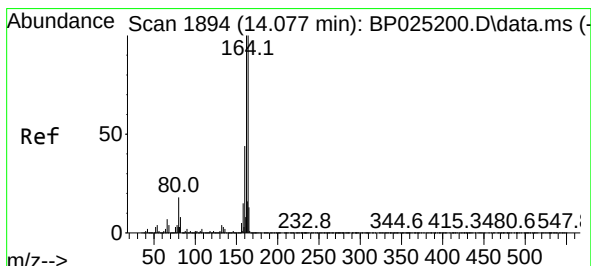
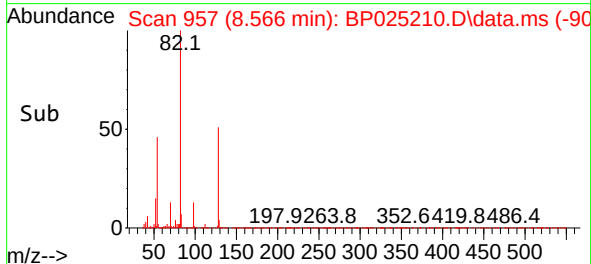
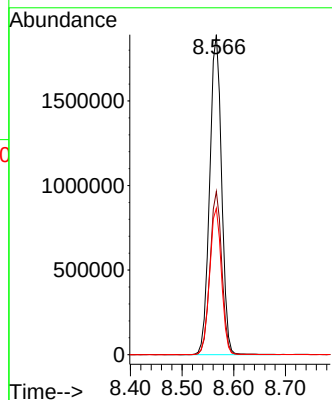
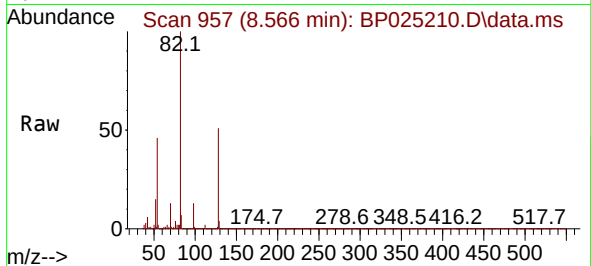




#23  
Nitrobenzene-d5  
Concen: 50.229 ng  
RT: 8.566 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

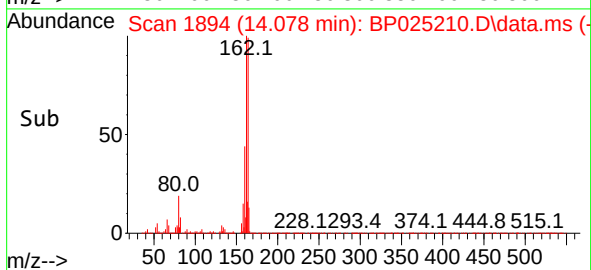
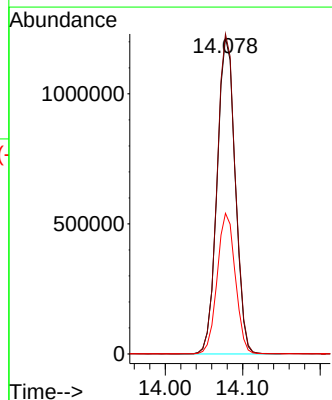
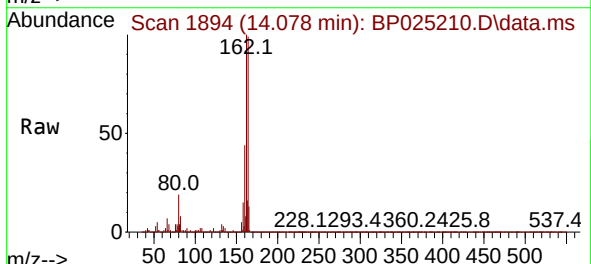
Instrument :  
BNA\_P  
ClientSampleId :

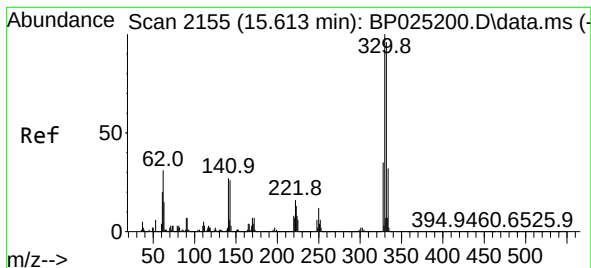
Tgt Ion: 82 Resp: 3022658  
Ion Ratio Lower Upper  
82 100  
128 51.0 40.2 60.4  
54 45.8 36.3 54.5



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.078 min Scan# 1894  
Delta R.T. 0.000 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

Tgt Ion:164 Resp: 1975954  
Ion Ratio Lower Upper  
164 100  
162 101.1 80.3 120.5  
160 44.4 35.7 53.5





#42

2,4,6-Tribromophenol

Concen: 78.086 ng

RT: 15.607 min Scan# 2155

Delta R.T. -0.006 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA\_P

ClientSampleId :

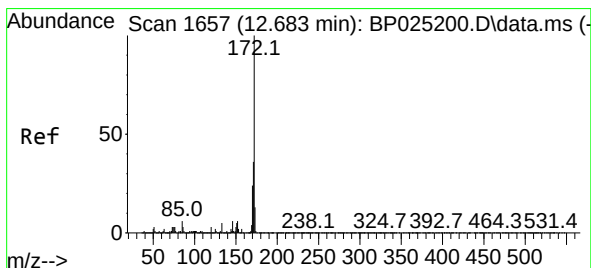
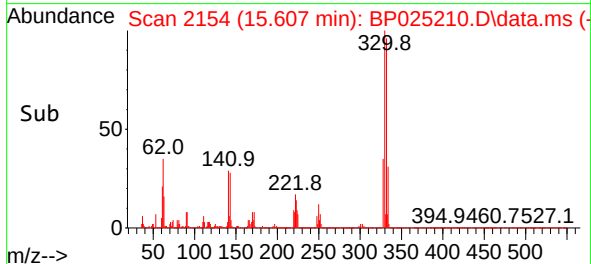
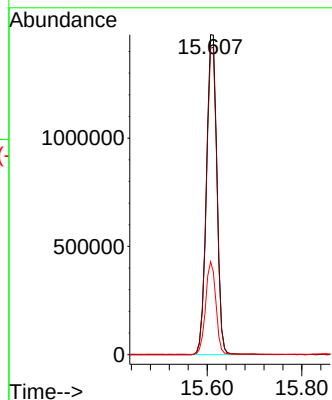
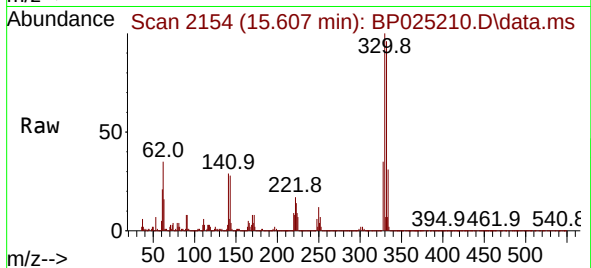
Tgt Ion:330 Resp: 2274627

Ion Ratio Lower Upper

330 100

332 96.5 77.1 115.7

141 28.2 22.4 33.6



#45

2-Fluorobiphenyl

Concen: 52.240 ng

RT: 12.678 min Scan# 1656

Delta R.T. -0.006 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

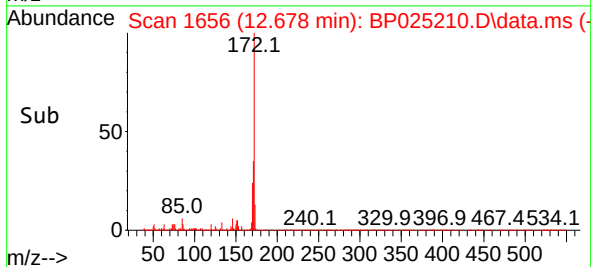
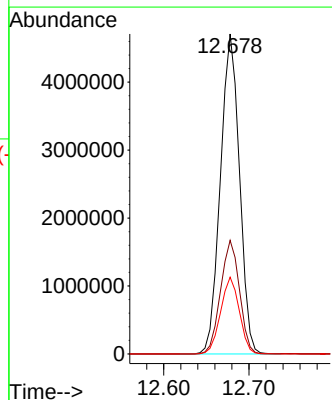
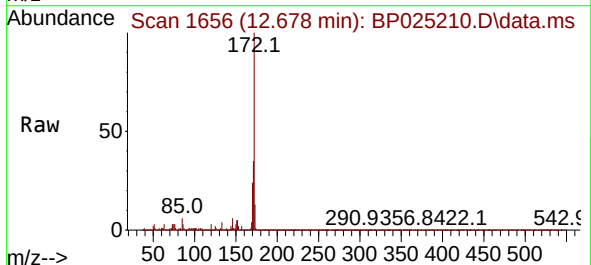
Tgt Ion:172 Resp: 7321746

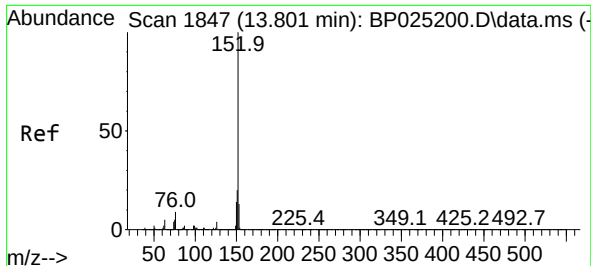
Ion Ratio Lower Upper

172 100

171 35.5 28.8 43.2

170 24.0 19.2 28.8

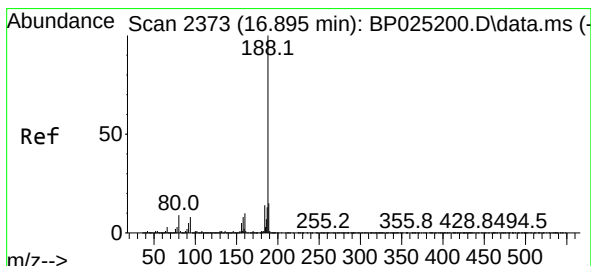
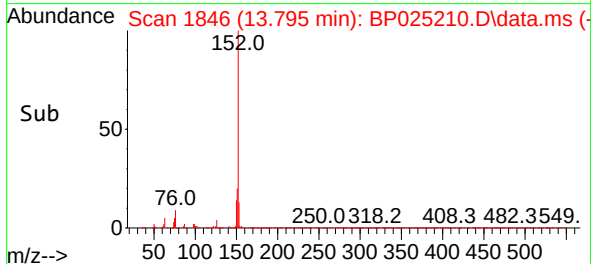
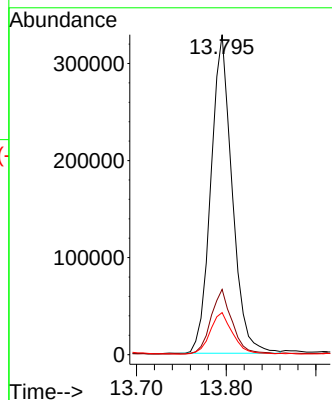
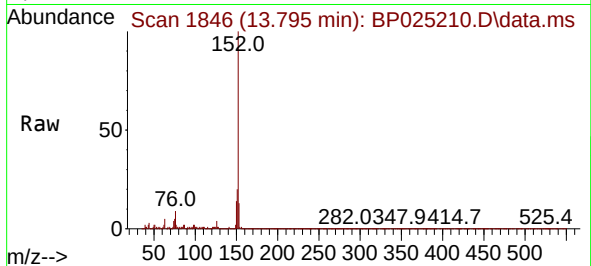




#49  
Acenaphthylene  
Concen: 2.988 ng  
RT: 13.795 min Scan# 1846  
Delta R.T. -0.006 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

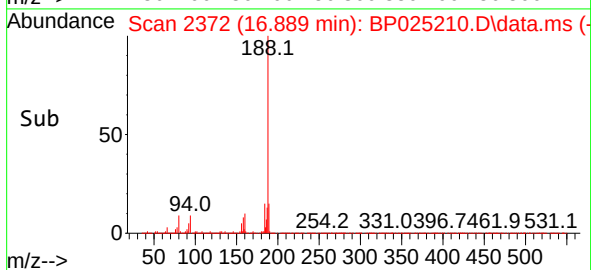
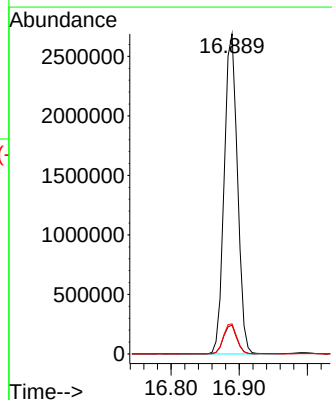
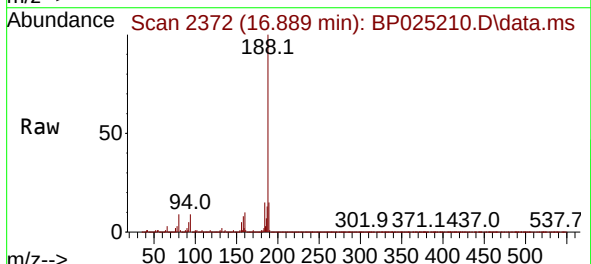
Instrument :  
BNA\_P  
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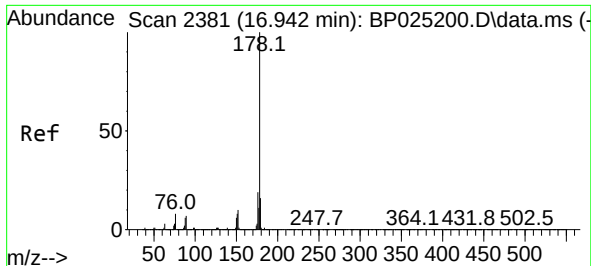
Tgt Ion:152 Resp: 540510  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.2 24.2  
153 13.2 10.6 15.8



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.889 min Scan# 2372  
Delta R.T. -0.006 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

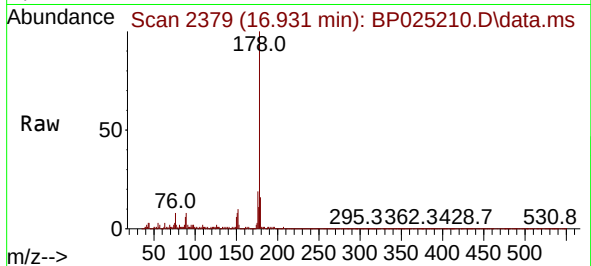
Tgt Ion:188 Resp: 3638856  
Ion Ratio Lower Upper  
188 100  
94 9.0 6.8 10.2  
80 9.4 7.3 10.9



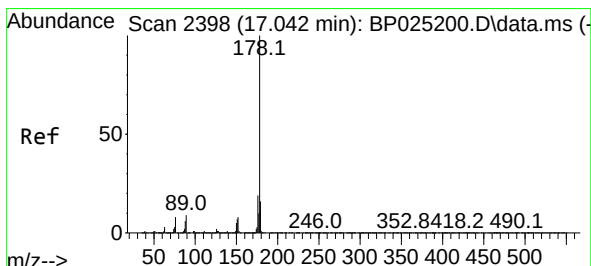
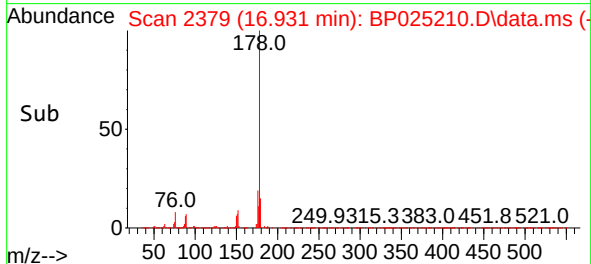
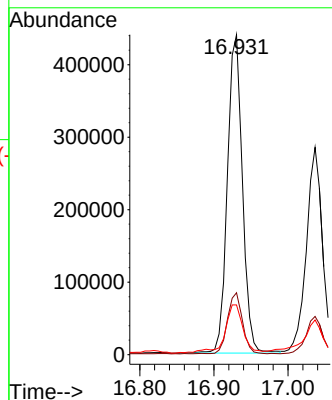


#71  
Phenanthrene  
Concen: 3.160 ng  
RT: 16.931 min Scan# 21  
Delta R.T. -0.011 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

Instrument :  
BNA\_P  
ClientSampleId :

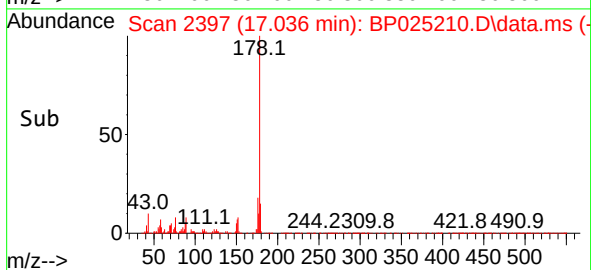
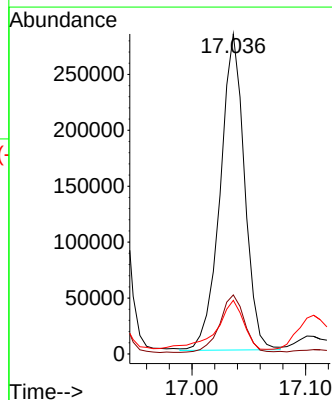
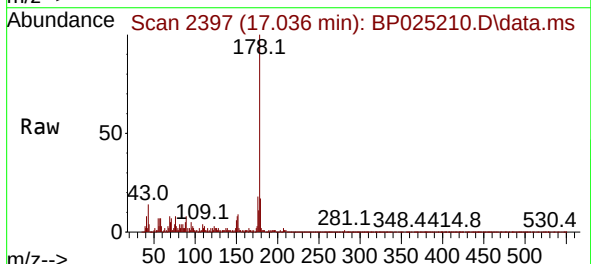


Tgt Ion:178 Resp: 620121  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.6 23.4  
179 15.5 12.5 18.7

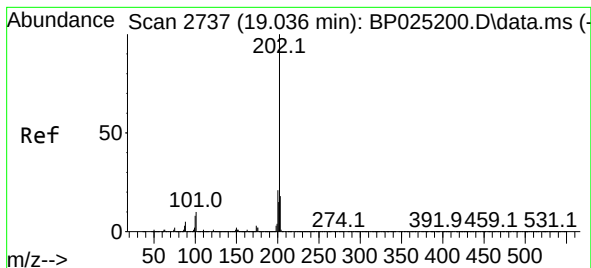


#72  
Anthracene  
Concen: 2.127 ng  
RT: 17.036 min Scan# 2397  
Delta R.T. -0.006 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

Tgt Ion:178 Resp: 420458  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.0 22.4  
179 16.8 12.5 18.7







#75

Fluoranthene

Concen: 8.105 ng

RT: 19.036 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA\_P

ClientSampleId :

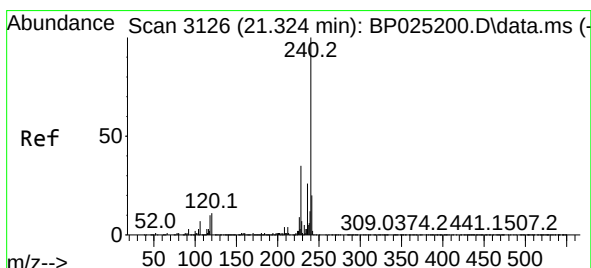
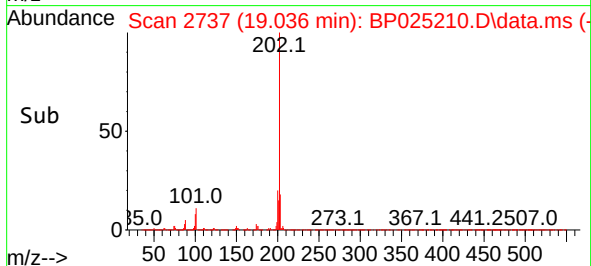
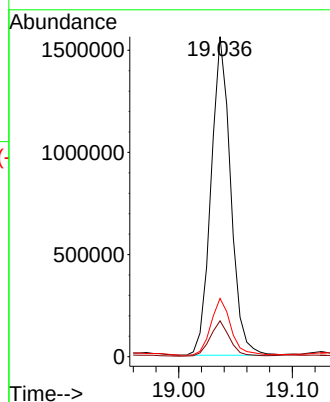
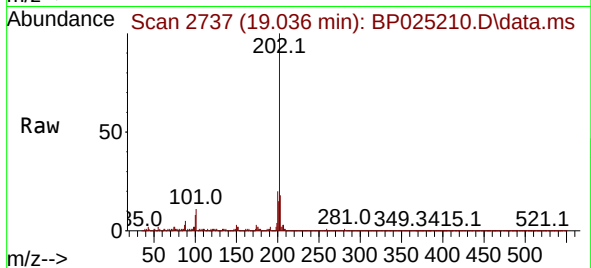
Tgt Ion:202 Resp: 1872149

Ion Ratio Lower Upper

202 100

101 11.2 0.0 30.3

203 18.2 0.0 38.0



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.324 min Scan# 3126

Delta R.T. 0.000 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

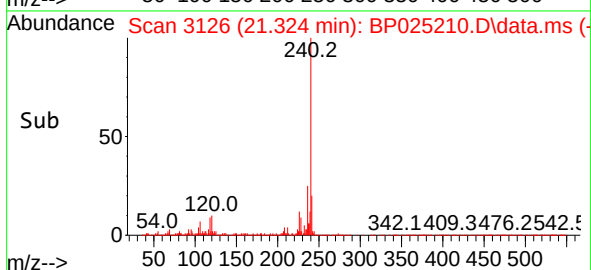
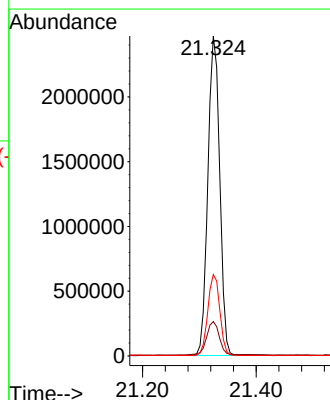
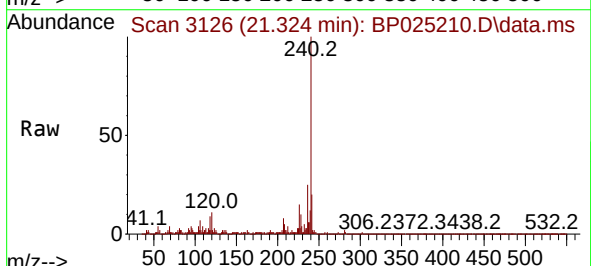
Tgt Ion:240 Resp: 3558679

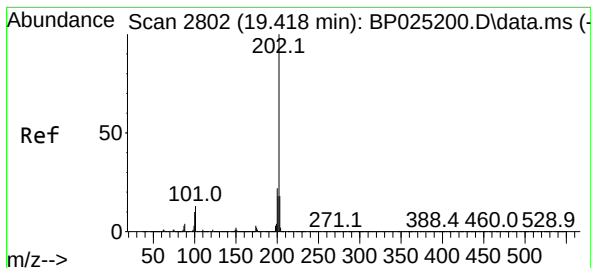
Ion Ratio Lower Upper

240 100

120 10.7 8.8 13.2

236 25.5 20.9 31.3





#78

Pyrene

Concen: 10.791 ng

RT: 19.413 min Scan# 2802

Delta R.T. -0.006 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA\_P

ClientSampleId :

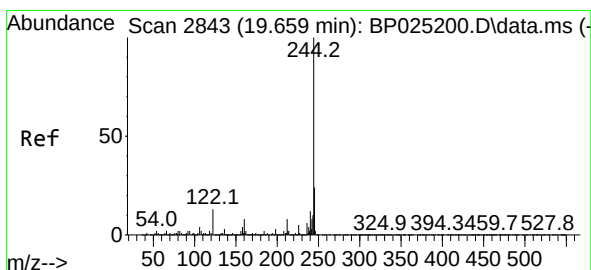
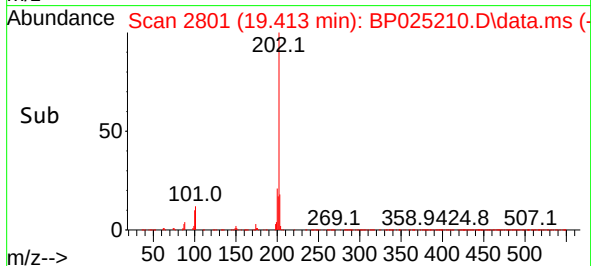
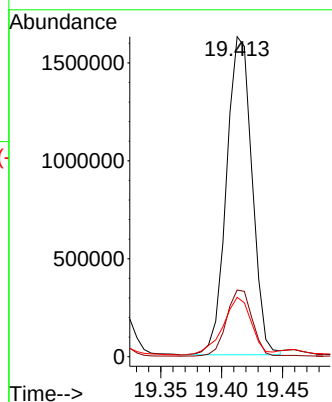
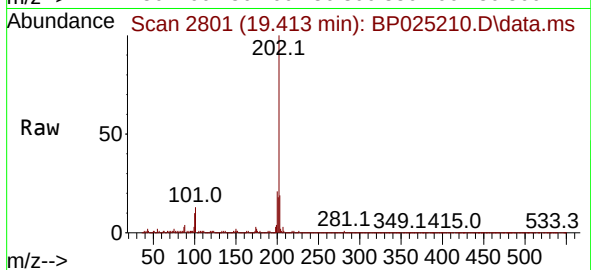
Tgt Ion:202 Resp: 2367877

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

203 18.5 14.3 21.5



#79

Terphenyl-d14

Concen: 51.825 ng

RT: 19.660 min Scan# 2843

Delta R.T. 0.001 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

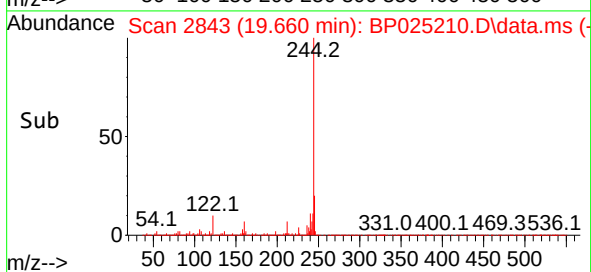
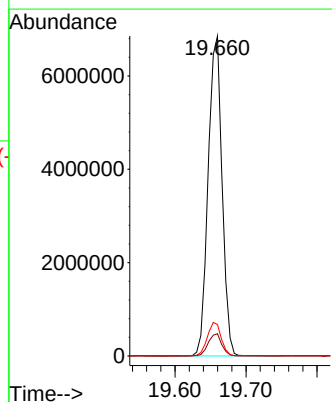
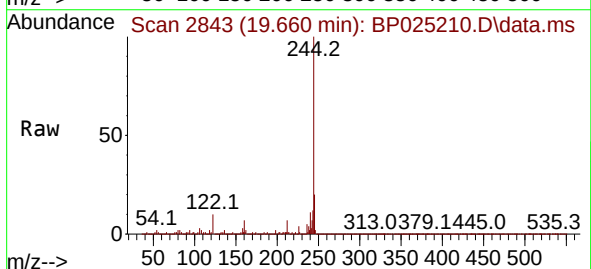
Tgt Ion:244 Resp: 9342690

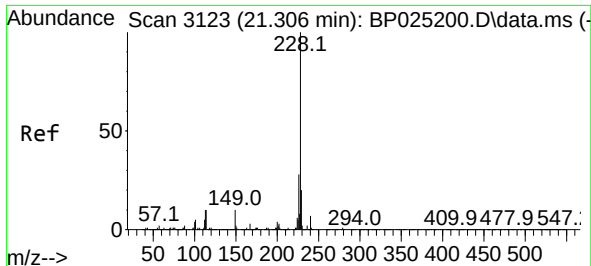
Ion Ratio Lower Upper

244 100

212 7.0 6.6 9.8

122 9.8 10.3 15.5#

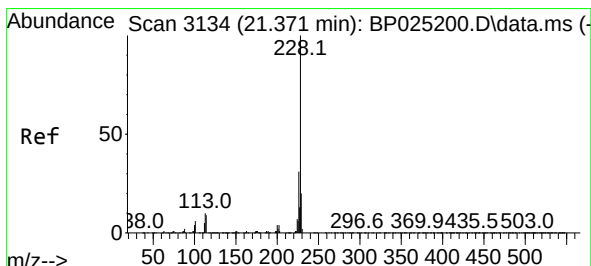
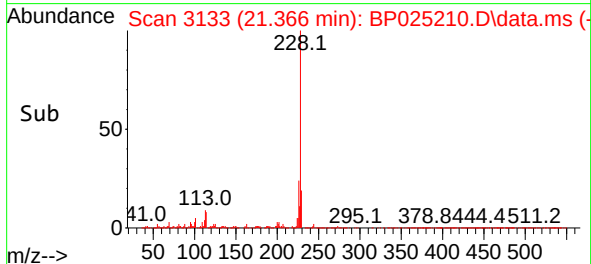
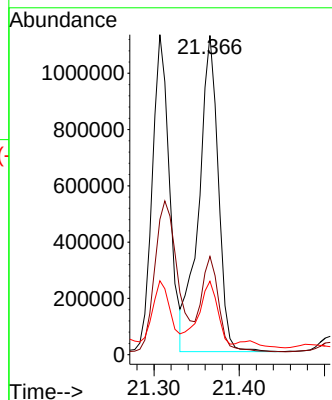
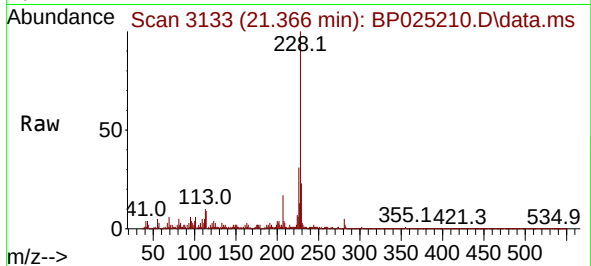




#81  
Benzo(a)anthracene  
Concen: 7.939 ng  
RT: 21.366 min Scan# 3123  
Delta R.T. 0.059 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

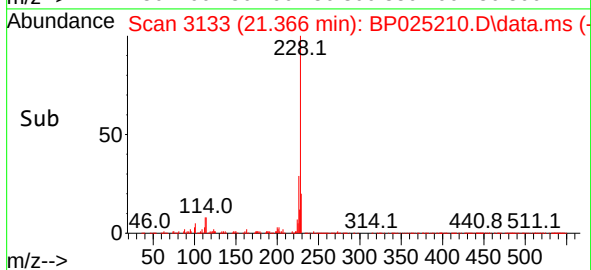
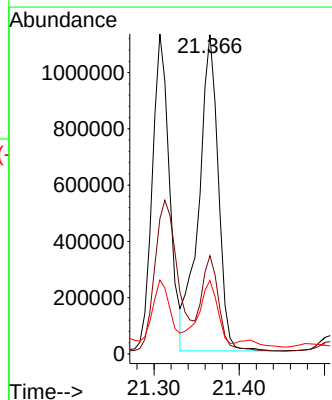
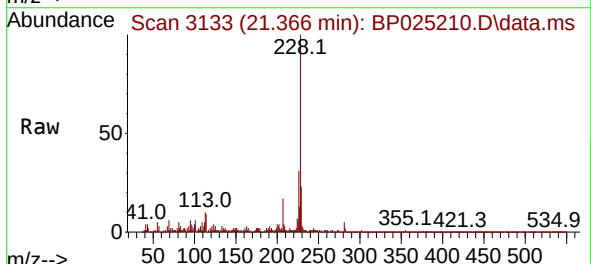
Instrument :  
BNA\_P  
ClientSampleId :

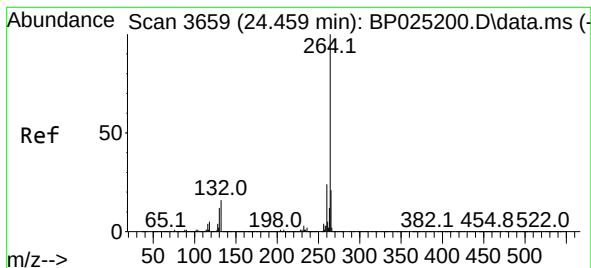
Tgt Ion:228 Resp: 1784185  
Ion Ratio Lower Upper  
228 100  
226 30.8 22.3 33.5  
229 23.0 16.2 24.2



#83  
Chrysene  
Concen: 8.505 ng  
RT: 21.366 min Scan# 3133  
Delta R.T. -0.006 min  
Lab File: BP025210.D  
Acq: 22 Jul 2025 11:51

Tgt Ion:228 Resp: 1784185  
Ion Ratio Lower Upper  
228 100  
226 30.8 24.6 37.0  
229 23.0 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.460 min Scan# 3

Delta R.T. 0.000 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA\_P

ClientSampleId :

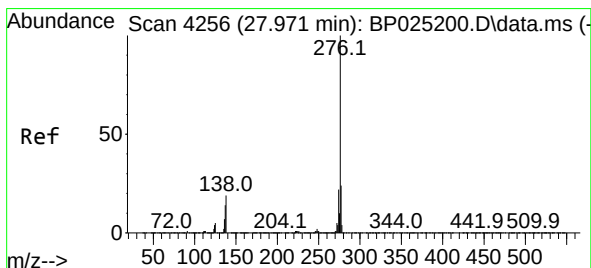
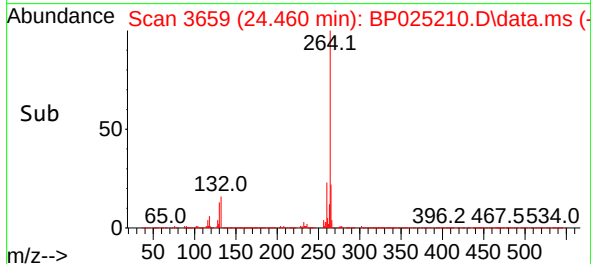
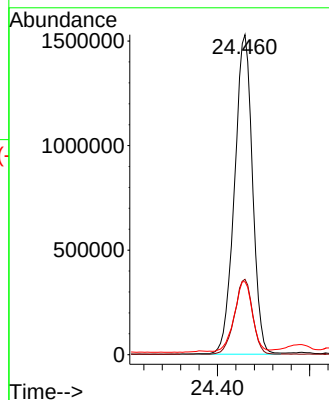
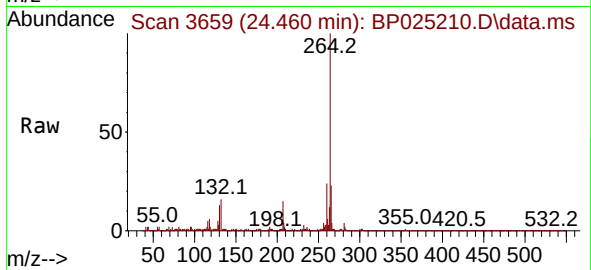
Tgt Ion:264 Resp: 4138303

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.6

265 22.8 17.5 26.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.165 ng

RT: 27.971 min Scan# 4256

Delta R.T. 0.000 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

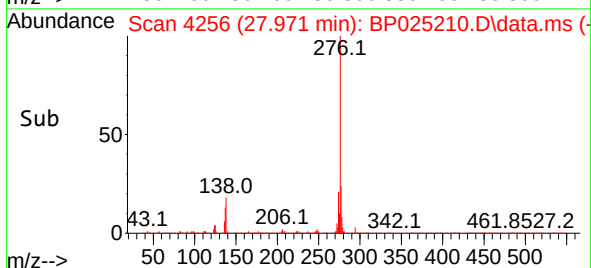
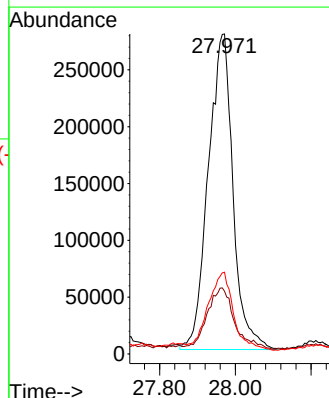
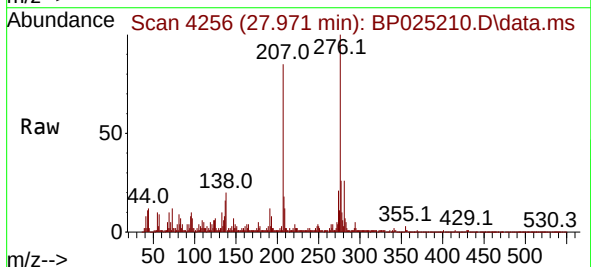
Tgt Ion:276 Resp: 1259500

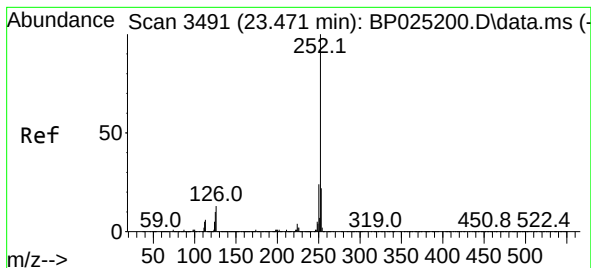
Ion Ratio Lower Upper

276 100

138 21.6 12.8 19.2#

277 25.5 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 8.581 ng

RT: 23.460 min Scan# 3491

Delta R.T. -0.011 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA\_P

ClientSampleId :

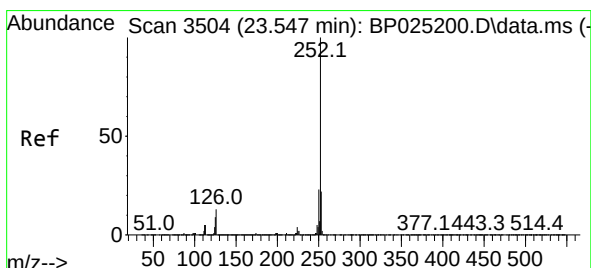
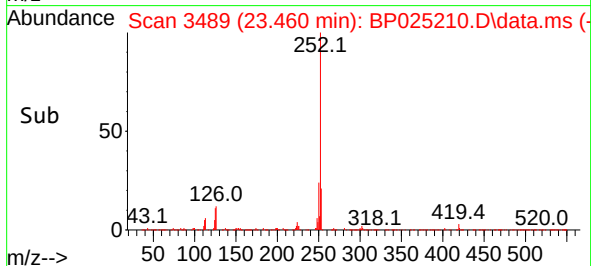
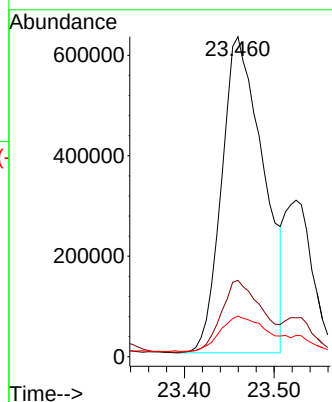
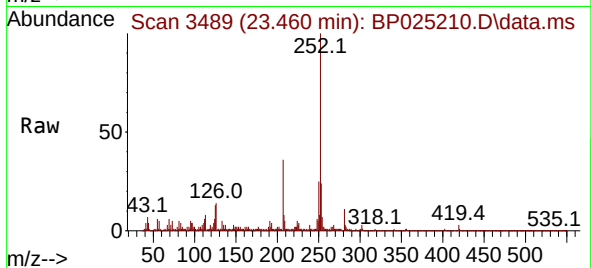
Tgt Ion:252 Resp: 2032653

Ion Ratio Lower Upper

252 100

253 23.8 18.0 27.0

125 12.7 7.8 11.8#



#89

Benzo(k)fluoranthene

Concen: 8.692 ng

RT: 23.460 min Scan# 3489

Delta R.T. -0.088 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

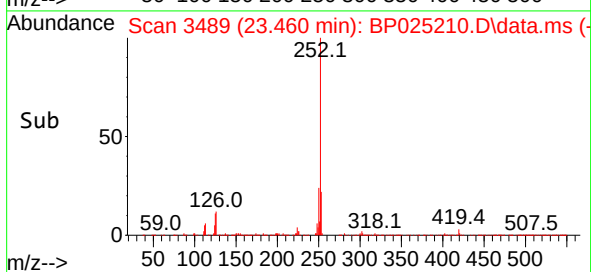
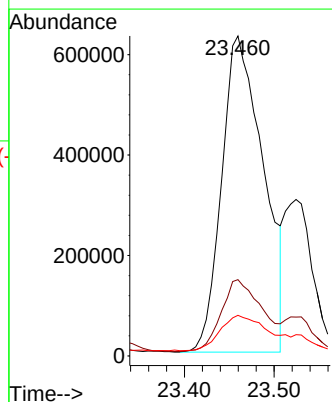
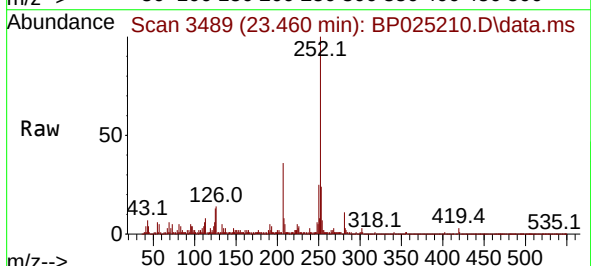
Tgt Ion:252 Resp: 2032653

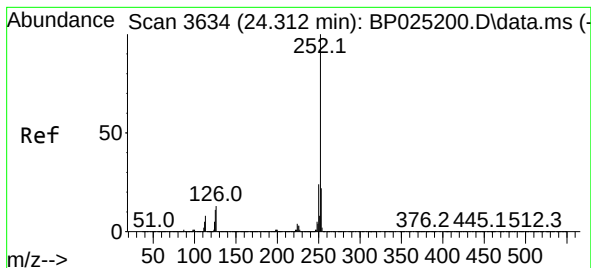
Ion Ratio Lower Upper

252 100

253 23.8 17.8 26.6

125 12.7 7.5 11.3#





#90

Benzo(a)pyrene

Concen: 7.766 ng

RT: 24.289 min Scan# 3630

Delta R.T. -0.023 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA\_P

ClientSampleId :

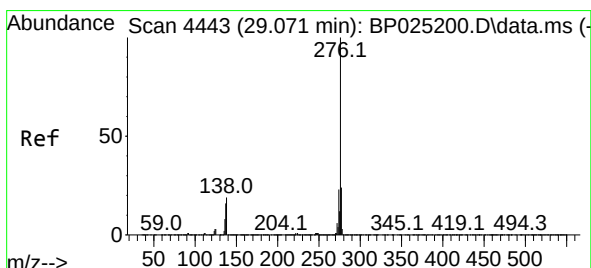
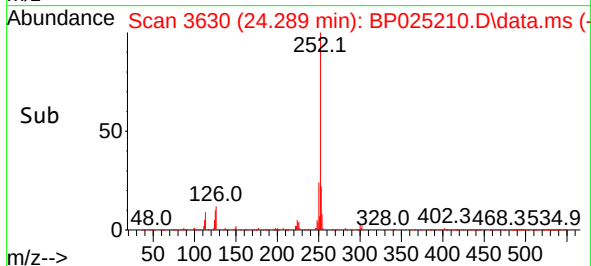
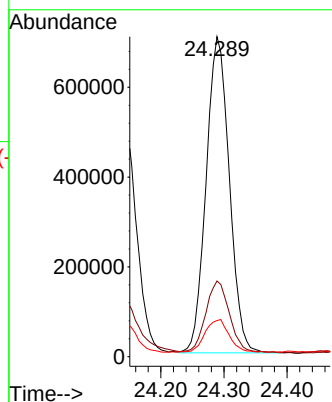
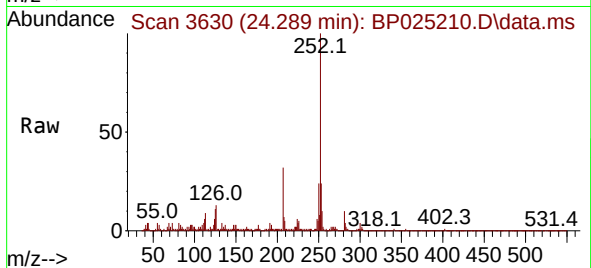
Tgt Ion:252 Resp: 1794768

Ion Ratio Lower Upper

252 100

253 23.7 17.8 26.6

125 11.3 8.6 12.8



#92

Benzo(g,h,i)perylene

Concen: 5.182 ng

RT: 29.059 min Scan# 4441

Delta R.T. -0.011 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Tgt Ion:276 Resp: 1256583

Ion Ratio Lower Upper

276 100

277 25.7 19.2 28.8

138 21.7 15.4 23.2

