

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP061025\  
 Data File : BP024901.D  
 Acq On : 10 Jun 2025 19:51  
 Operator : RC/JU  
 Sample : Q2176-04 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 TP-26

Quant Time: Jun 11 02:05:32 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP060625.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 06 16:20:27 2025  
 Response via : Initial Calibration

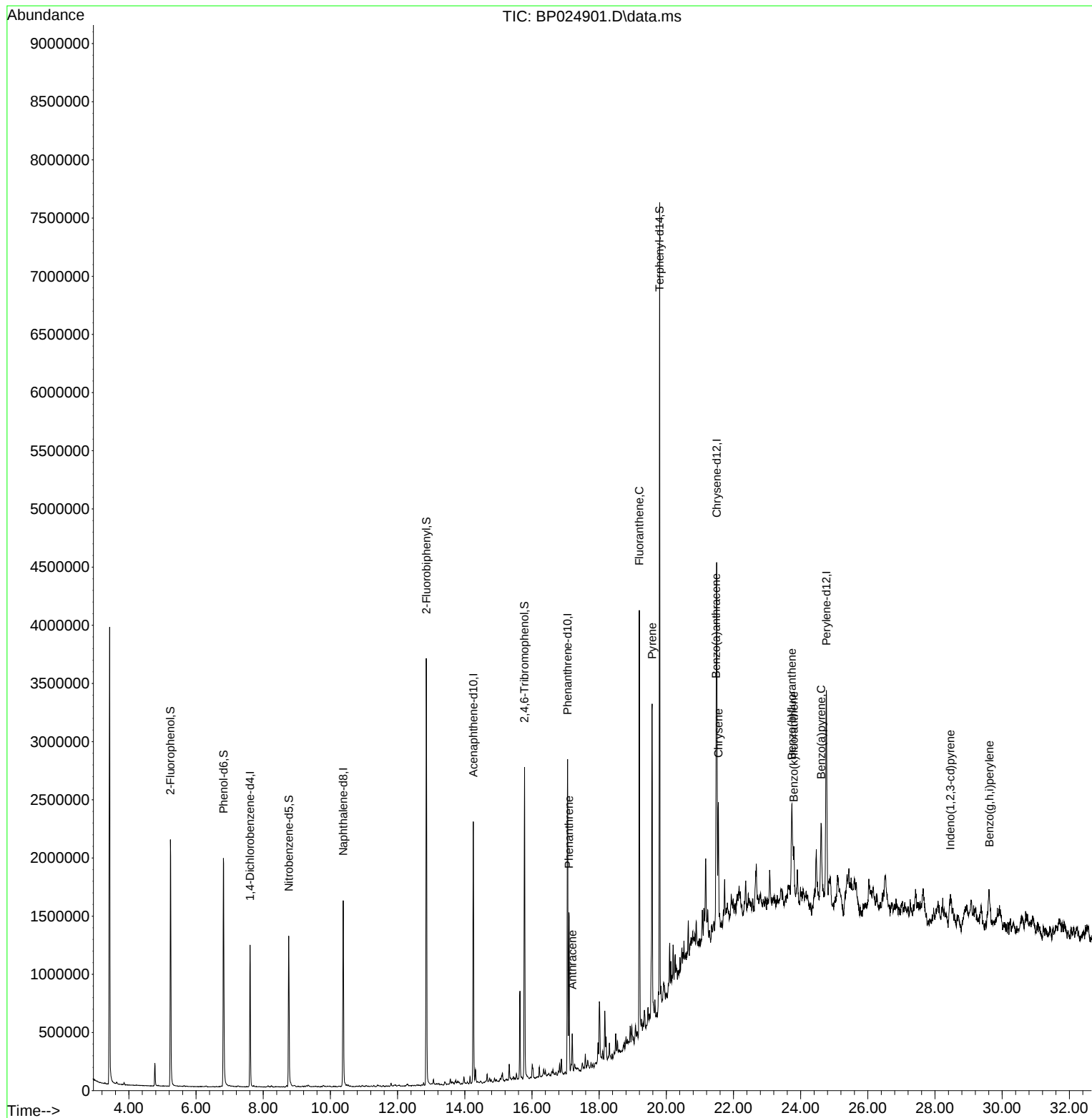
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.608  | 152  | 331428   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.378 | 136  | 1353167  | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.254 | 164  | 851560   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.060 | 188  | 1568912  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.501 | 240  | 1528631  | 20.000 | ng    | 0.02     |
| 86) Perylene-d12            | 24.766 | 264  | 1800536  | 20.000 | ng    | 0.05     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.237  | 112  | 986538   | 49.686 | ng    | 0.00     |
| 7) Phenol-d6                | 6.814  | 99   | 1286457  | 48.969 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.761  | 82   | 811243   | 29.132 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.778 | 330  | 571255   | 48.521 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.854 | 172  | 1994483  | 31.552 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.801 | 244  | 2816385  | 33.021 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.101 | 178  | 892175   | 10.290 | ng    | 100      |
| 72) Anthracene              | 17.201 | 178  | 222160   | 2.530  | ng    | 100      |
| 75) Fluoranthene            | 19.195 | 202  | 1979200  | 19.696 | ng    | 99       |
| 78) Pyrene                  | 19.578 | 202  | 1639303  | 17.165 | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.483 | 228  | 716631   | 7.330  | ng    | 99       |
| 83) Chrysene                | 21.548 | 228  | 744662   | 8.038  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 28.459 | 276  | 441583   | 3.361  | ng    | # 95     |
| 88) Benzo(b)fluoranthene    | 23.736 | 252  | 884835   | 8.587  | ng    | # 95     |
| 89) Benzo(k)fluoranthene    | 23.795 | 252  | 371610m  | 3.543  | ng    |          |
| 90) Benzo(a)pyrene          | 24.607 | 252  | 620829   | 6.169  | ng    | # 93     |
| 92) Benzo(g,h,i)perylene    | 29.618 | 276  | 431887   | 4.071  | ng    | 95       |
| -----                       |        |      |          |        |       |          |

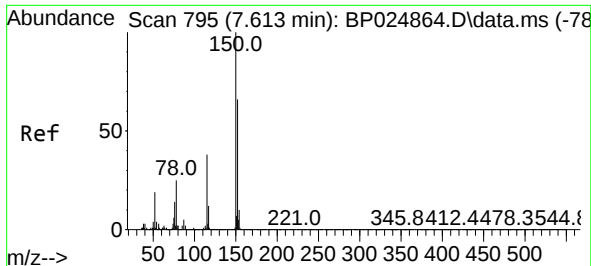
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP061025\  
Data File : BP024901.D  
Acq On : 10 Jun 2025 19:51  
Operator : RC/JU  
Sample : Q2176-04 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
TP-26

Quant Time: Jun 11 02:05:32 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP060625.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 06 16:20:27 2025  
Response via : Initial Calibration

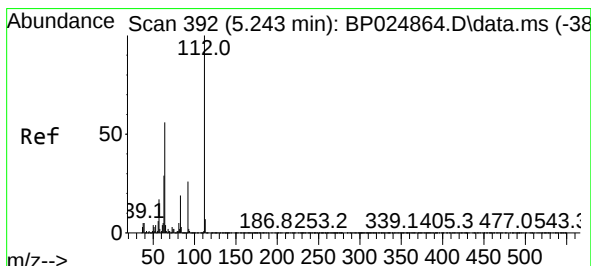
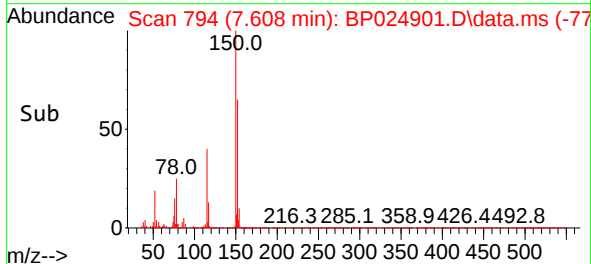
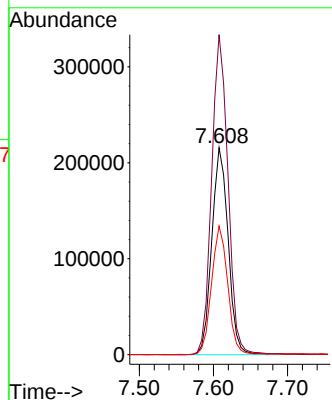
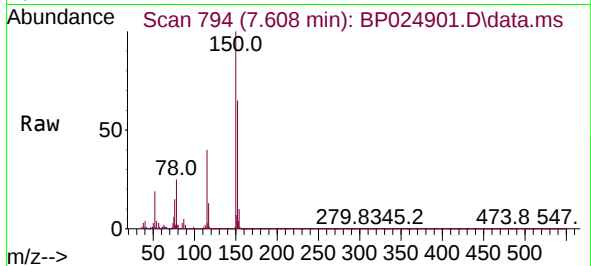




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.608 min Scan# 795  
Delta R.T. -0.005 min  
Lab File: BP024901.D  
Acq: 10 Jun 2025 19:51

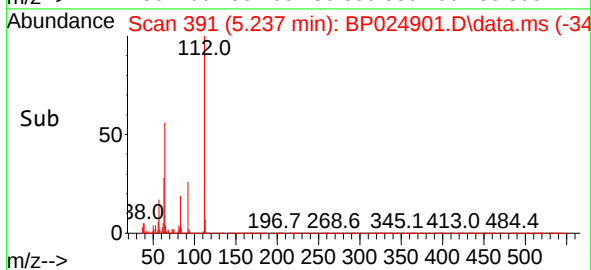
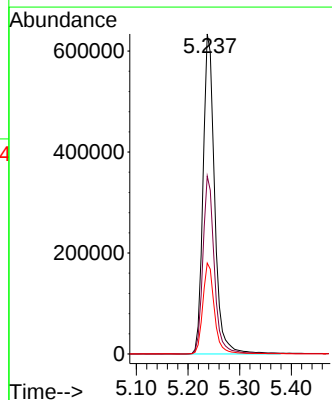
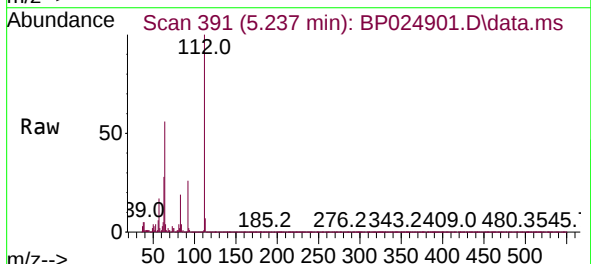
Instrument :  
BNA\_P  
ClientSampleId :  
TP-26

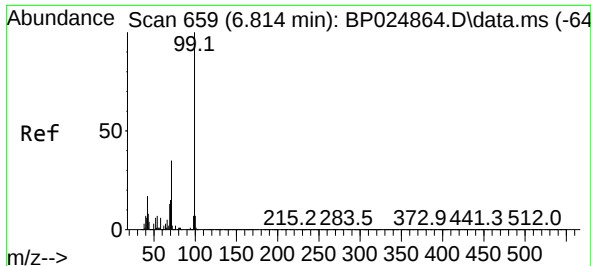
Tgt Ion:152 Resp: 331428  
Ion Ratio Lower Upper  
152 100  
150 154.6 122.1 183.1  
115 62.2 46.4 69.6



#5  
2-Fluorophenol  
Concen: 49.686 ng  
RT: 5.237 min Scan# 391  
Delta R.T. -0.006 min  
Lab File: BP024901.D  
Acq: 10 Jun 2025 19:51

Tgt Ion:112 Resp: 986538  
Ion Ratio Lower Upper  
112 100  
64 55.6 44.7 67.1  
63 28.4 23.5 35.3

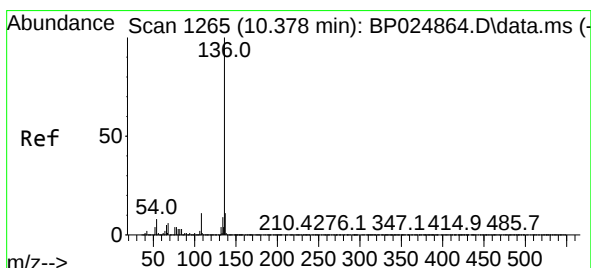
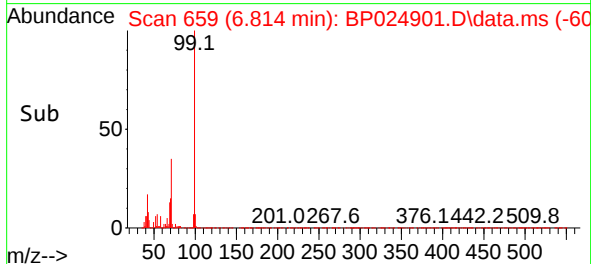
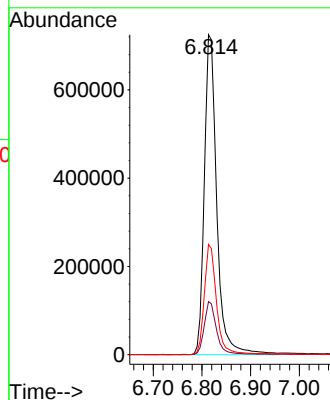
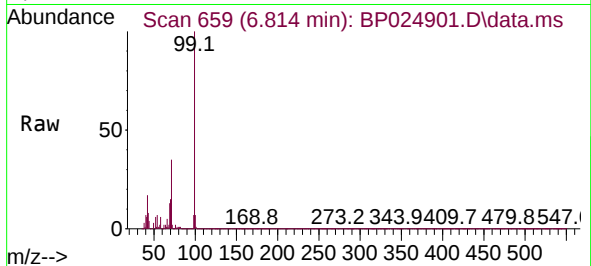




#7  
Phenol-d6  
Concen: 48.969 ng  
RT: 6.814 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BP024901.D  
Acq: 10 Jun 2025 19:51

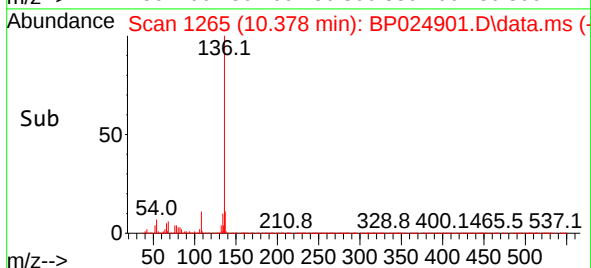
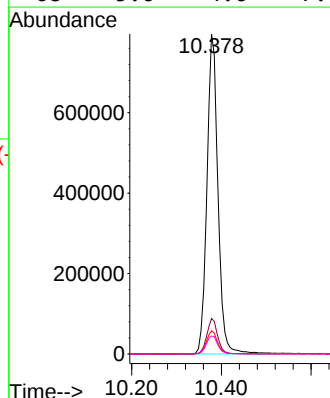
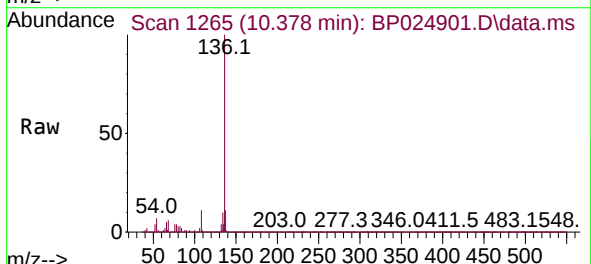
Instrument :  
BNA\_P  
ClientSampleId :  
TP-26

Tgt Ion: 99 Resp: 1286457  
Ion Ratio Lower Upper  
99 100  
42 16.6 13.4 20.2  
71 34.5 27.6 41.4



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.378 min Scan# 1265  
Delta R.T. 0.000 min  
Lab File: BP024901.D  
Acq: 10 Jun 2025 19:51

Tgt Ion: 136 Resp: 1353167  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 7.3 6.1 9.1  
68 5.6 4.6 7.0

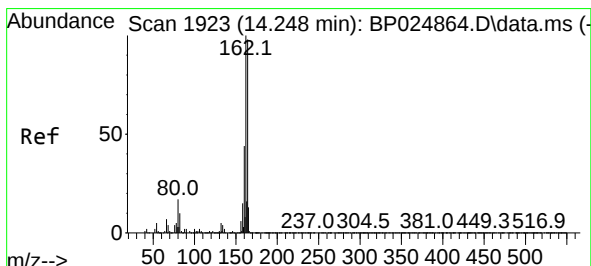
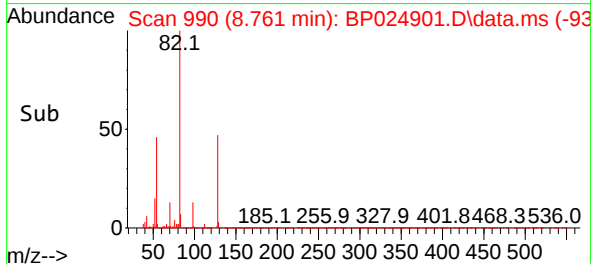
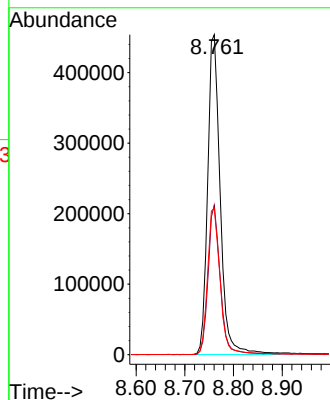
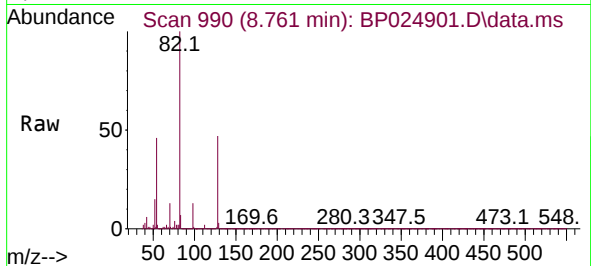




#23  
Nitrobenzene-d5  
Concen: 29.132 ng  
RT: 8.761 min Scan# 990  
Delta R.T. 0.000 min  
Lab File: BP024901.D  
Acq: 10 Jun 2025 19:51

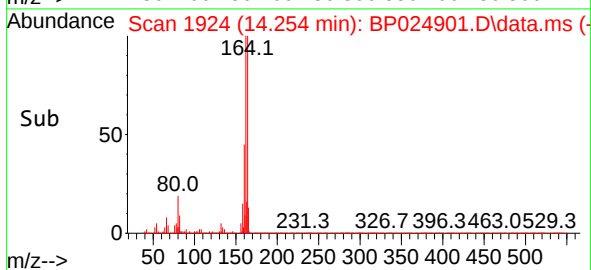
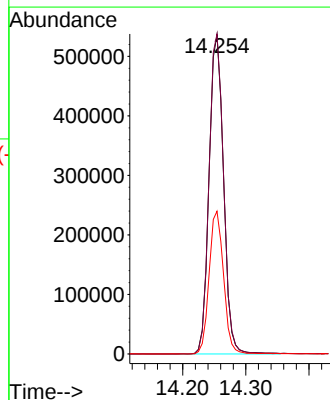
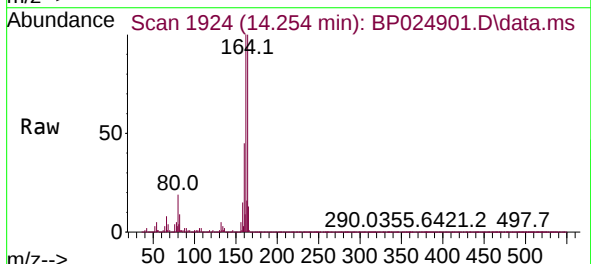
Instrument :  
BNA\_P  
ClientSampleId :  
TP-26

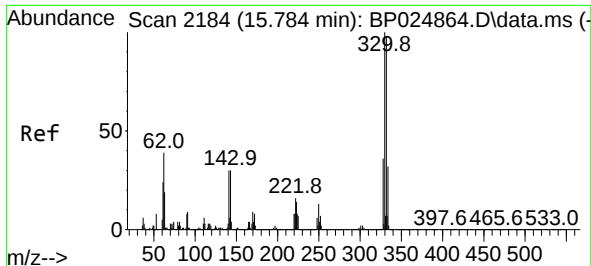
Tgt Ion: 82 Resp: 811243  
Ion Ratio Lower Upper  
82 100  
128 46.7 35.3 52.9  
54 45.7 37.4 56.0



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.254 min Scan# 1924  
Delta R.T. 0.006 min  
Lab File: BP024901.D  
Acq: 10 Jun 2025 19:51

Tgt Ion:164 Resp: 851560  
Ion Ratio Lower Upper  
164 100  
162 100.3 81.6 122.4  
160 44.7 36.2 54.2

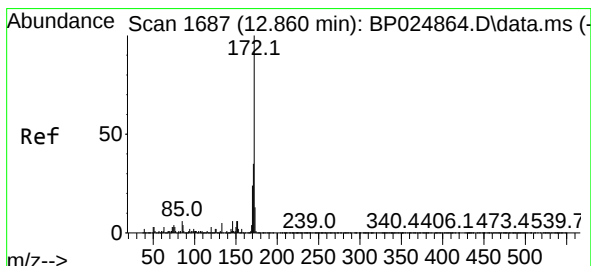
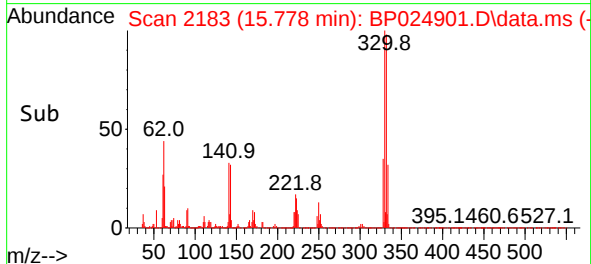
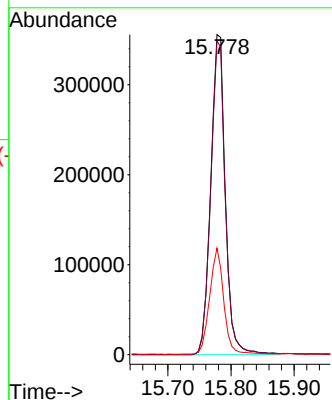
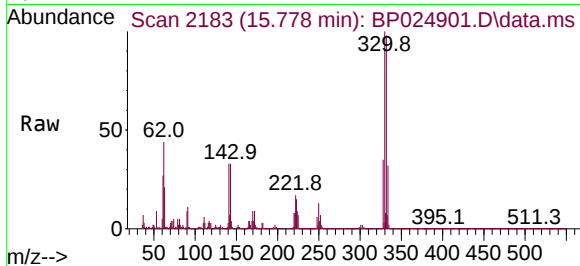




#42  
2,4,6-Tribromophenol  
Concen: 48.521 ng  
RT: 15.778 min Scan# 2183  
Delta R.T. -0.006 min  
Lab File: BP024901.D  
Acq: 10 Jun 2025 19:51

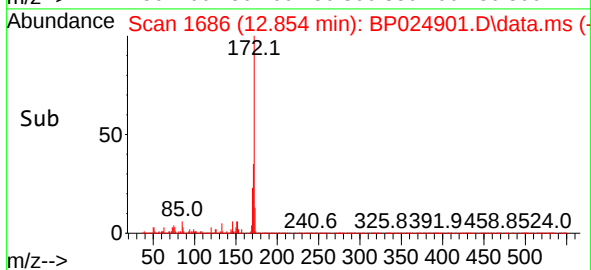
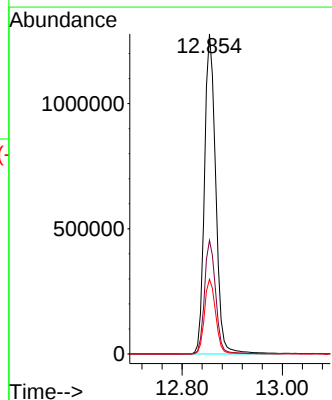
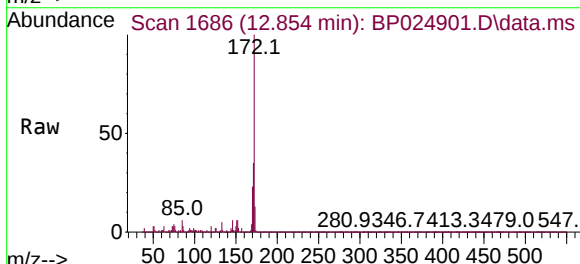
Instrument :  
BNA\_P  
ClientSampleId :  
TP-26

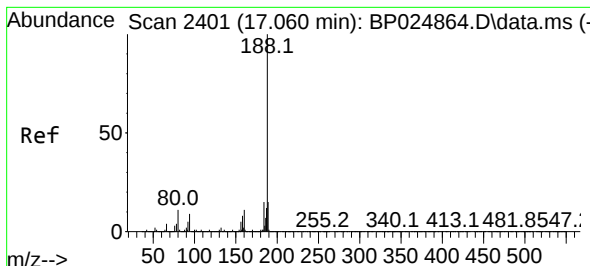
Tgt Ion:330 Resp: 571255  
Ion Ratio Lower Upper  
330 100  
332 97.6 77.7 116.5  
141 31.9 26.4 39.6



#45  
2-Fluorobiphenyl  
Concen: 31.552 ng  
RT: 12.854 min Scan# 1686  
Delta R.T. -0.006 min  
Lab File: BP024901.D  
Acq: 10 Jun 2025 19:51

Tgt Ion:172 Resp: 1994483  
Ion Ratio Lower Upper  
172 100  
171 35.5 28.3 42.5  
170 23.4 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.060 min Scan# 2401

Delta R.T. 0.000 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

Instrument :

BNA\_P

ClientSampleId :

TP-26

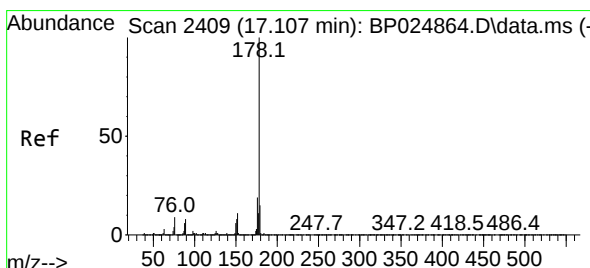
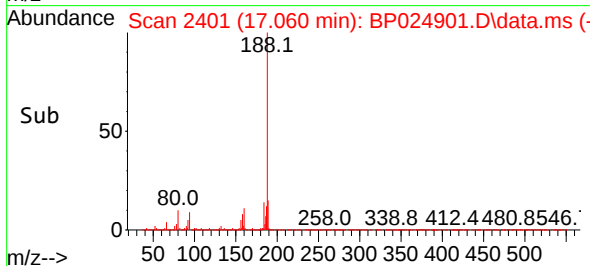
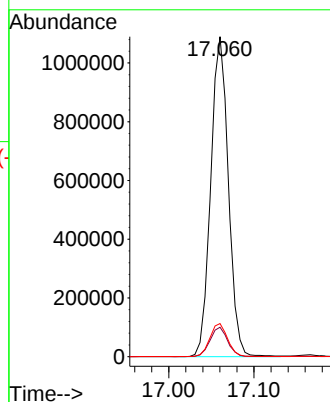
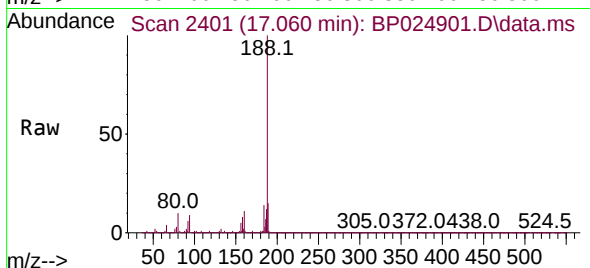
Tgt Ion:188 Resp: 1568912

Ion Ratio Lower Upper

188 100

94 9.2 7.3 10.9

80 10.4 8.5 12.7



#71

Phenanthrene

Concen: 10.290 ng

RT: 17.101 min Scan# 2408

Delta R.T. -0.006 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

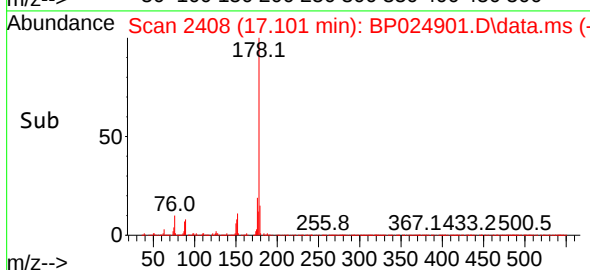
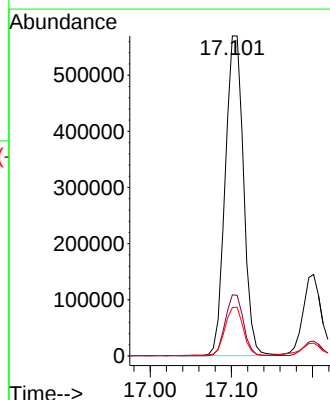
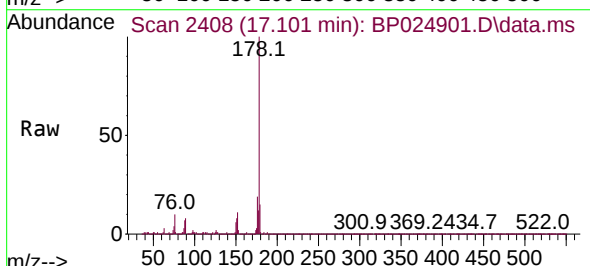
Tgt Ion:178 Resp: 892175

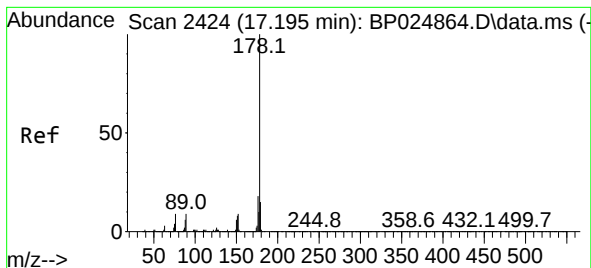
Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.1 12.1 18.1





#72

Anthracene

Concen: 2.530 ng

RT: 17.201 min Scan# 2424

Delta R.T. 0.006 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

Instrument :

BNA\_P

ClientSampleId :

TP-26

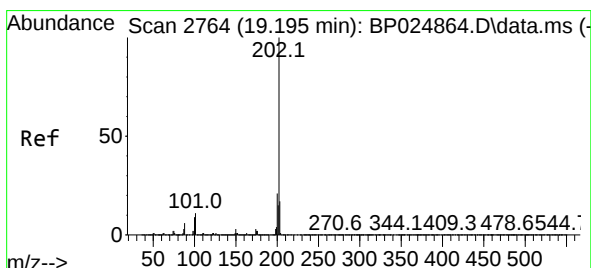
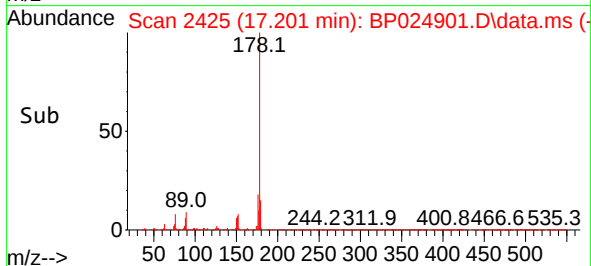
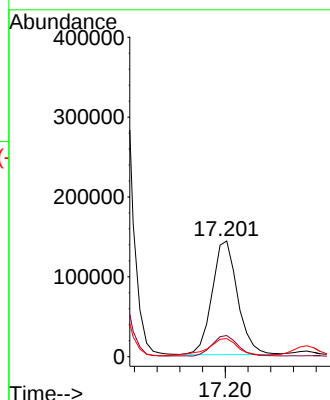
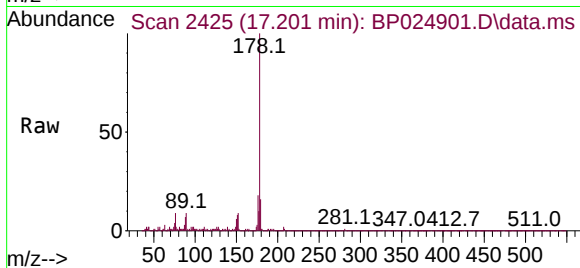
Tgt Ion:178 Resp: 222160

Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

179 15.7 12.3 18.5



#75

Fluoranthene

Concen: 19.696 ng

RT: 19.195 min Scan# 2764

Delta R.T. 0.000 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

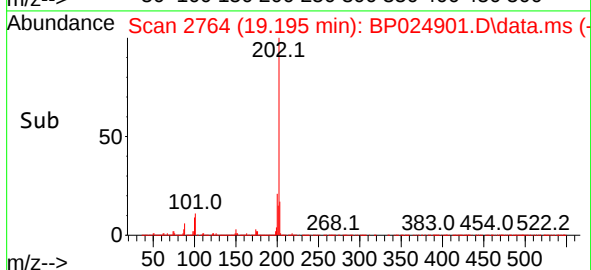
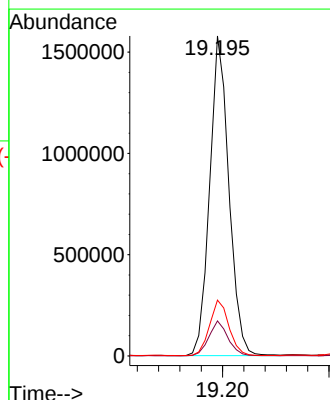
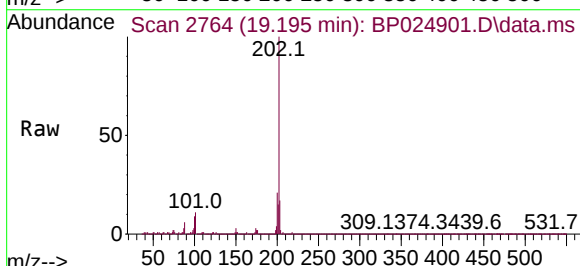
Tgt Ion:202 Resp: 1979200

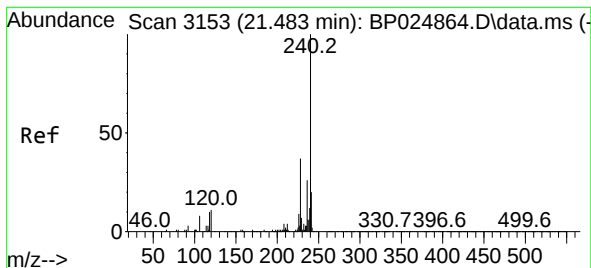
Ion Ratio Lower Upper

202 100

101 10.9 0.0 31.4

203 17.4 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.501 min Scan# 3156

Delta R.T. 0.018 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

Instrument :

BNA\_P

ClientSampleId :

TP-26

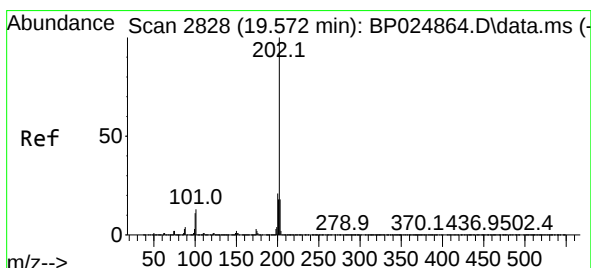
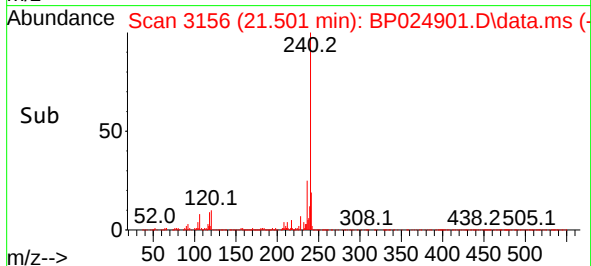
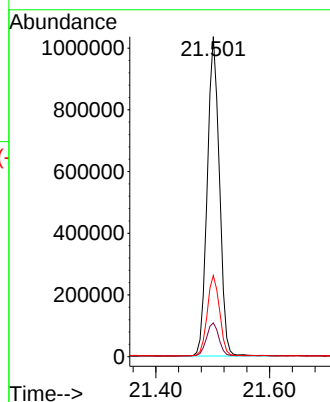
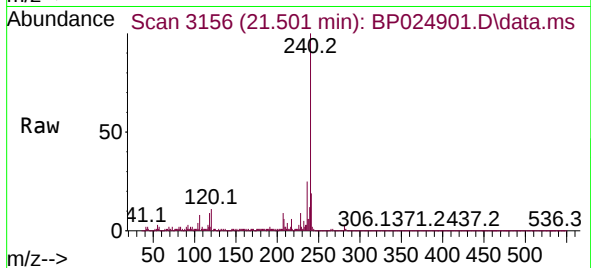
Tgt Ion:240 Resp: 1528631

Ion Ratio Lower Upper

240 100

120 10.6 8.9 13.3

236 25.4 20.9 31.3



#78

Pyrene

Concen: 17.165 ng

RT: 19.578 min Scan# 2829

Delta R.T. 0.006 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

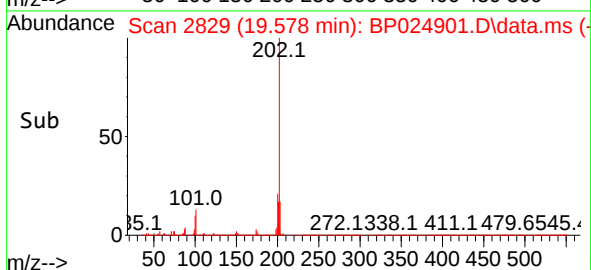
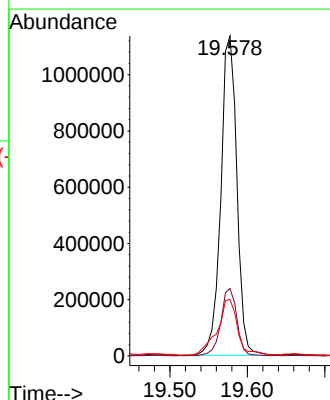
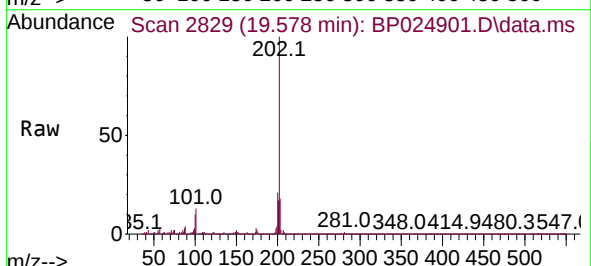
Tgt Ion:202 Resp: 1639303

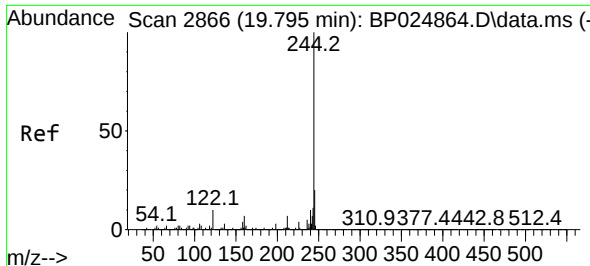
Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

203 17.6 14.0 21.0

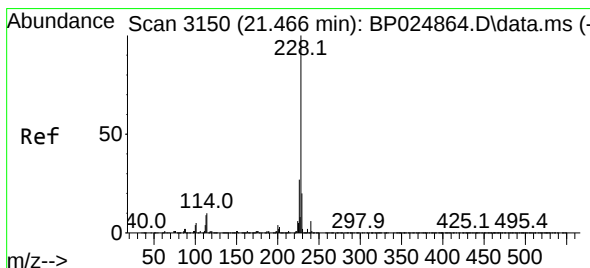
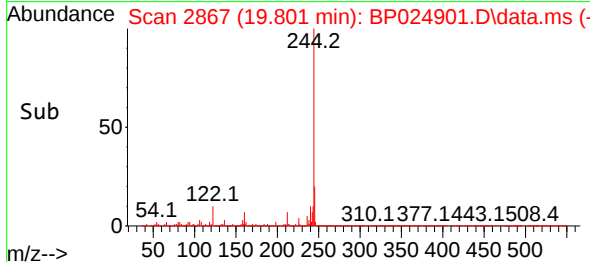
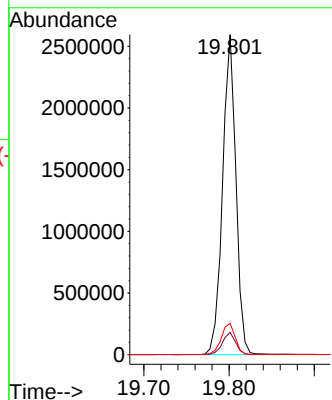
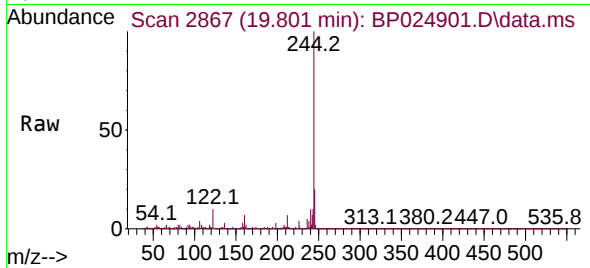




#79  
 Terphenyl-d14  
 Concen: 33.021 ng  
 RT: 19.801 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: BP024901.D  
 Acq: 10 Jun 2025 19:51

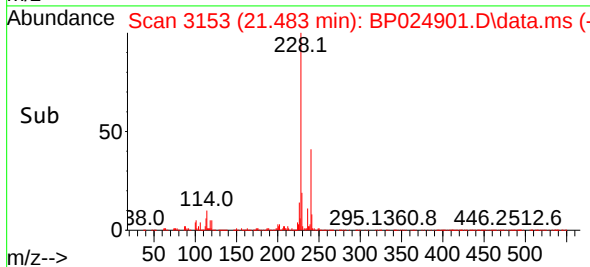
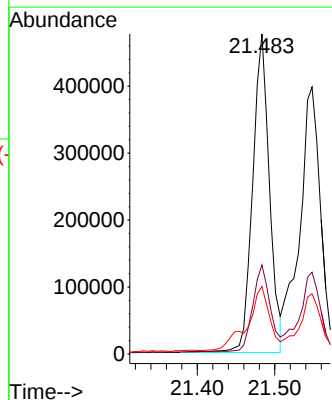
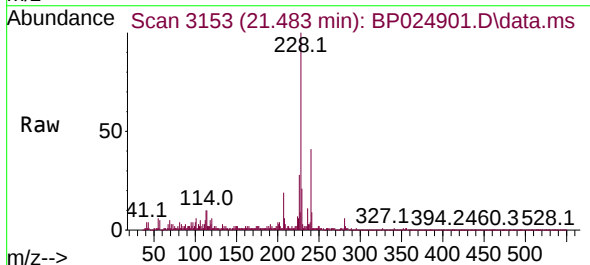
Instrument :  
 BNA\_P  
 ClientSampleId :  
 TP-26

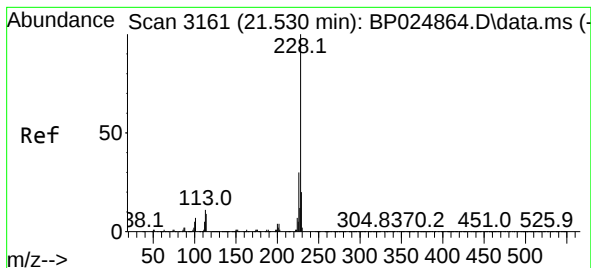
Tgt Ion:244 Resp: 2816385  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.6 8.4  
 122 9.8 7.7 11.5



#81  
 Benzo(a)anthracene  
 Concen: 7.330 ng  
 RT: 21.483 min Scan# 3153  
 Delta R.T. 0.018 min  
 Lab File: BP024901.D  
 Acq: 10 Jun 2025 19:51

Tgt Ion:228 Resp: 716631  
 Ion Ratio Lower Upper  
 228 100  
 226 27.8 22.1 33.1  
 229 21.1 15.9 23.9





#83

Chrysene

Concen: 8.038 ng

RT: 21.548 min Scan# 3161

Delta R.T. 0.018 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

Instrument :

BNA\_P

ClientSampleId :

TP-26

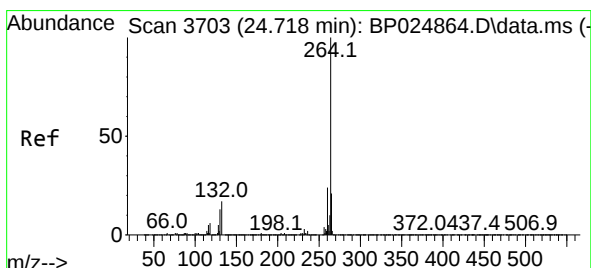
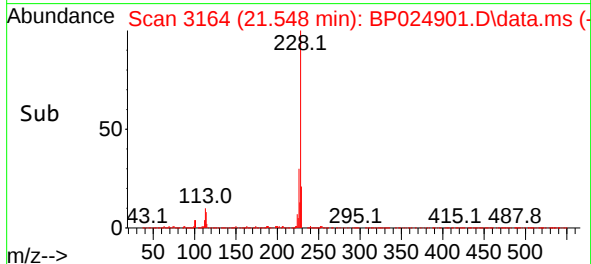
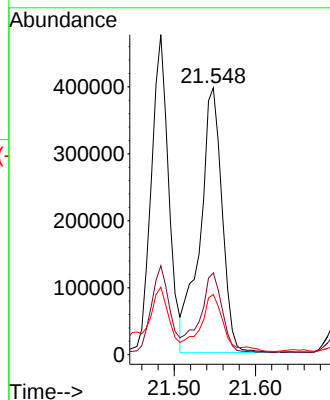
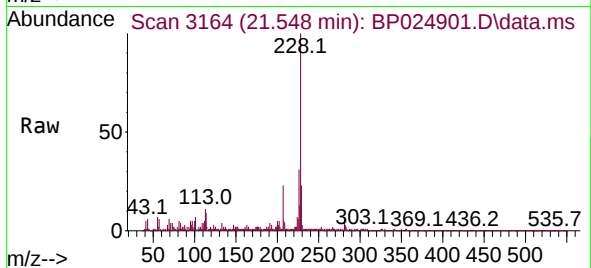
Tgt Ion:228 Resp: 744662

Ion Ratio Lower Upper

228 100

226 30.7 23.8 35.6

229 22.6 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.766 min Scan# 3711

Delta R.T. 0.047 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

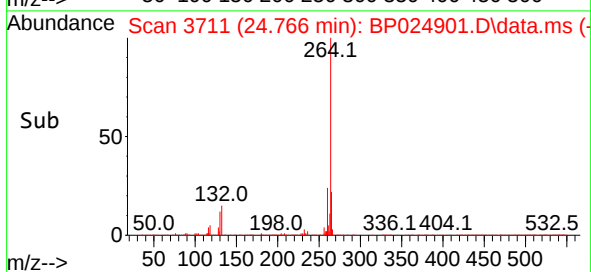
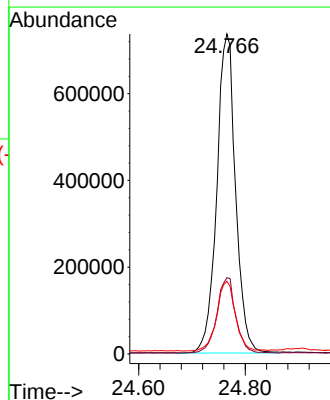
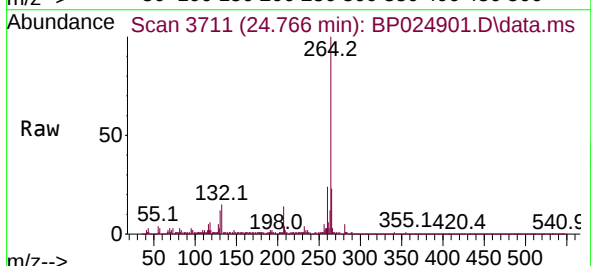
Tgt Ion:264 Resp: 1800536

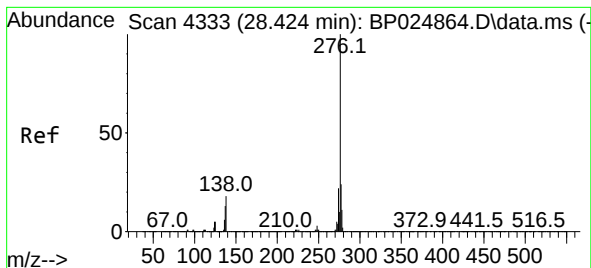
Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

265 22.7 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.361 ng

RT: 28.459 min Scan# 41

Delta R.T. 0.035 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

Instrument :

BNA\_P

ClientSampleId :

TP-26

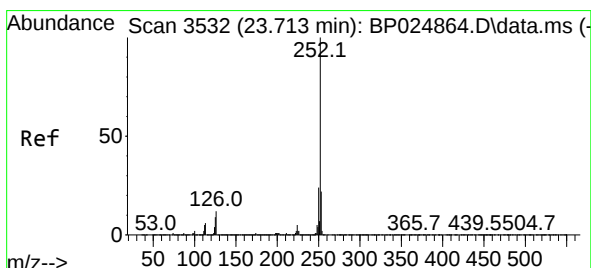
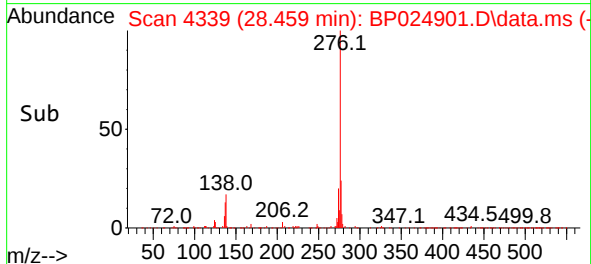
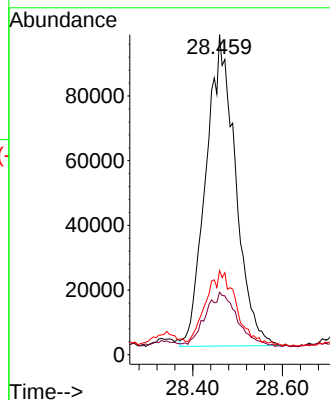
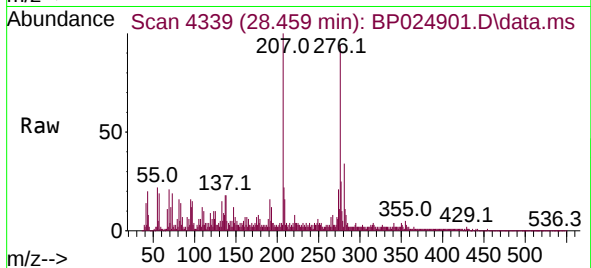
Tgt Ion:276 Resp: 441583

Ion Ratio Lower Upper

276 100

138 18.2 18.6 27.8#

277 25.1 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 8.587 ng

RT: 23.736 min Scan# 3536

Delta R.T. 0.024 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

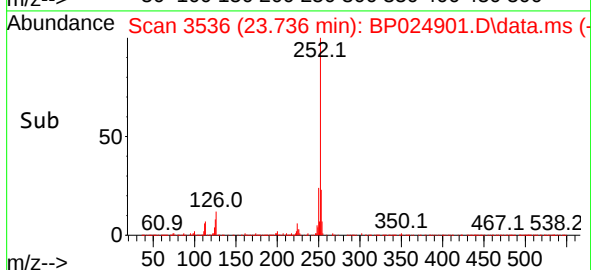
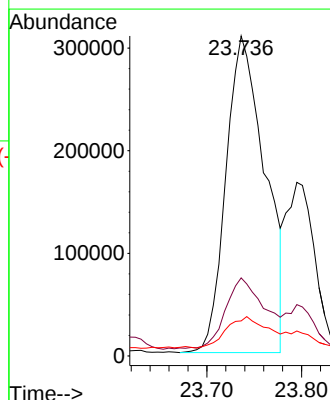
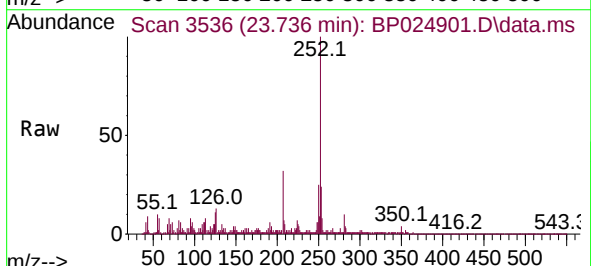
Tgt Ion:252 Resp: 884835

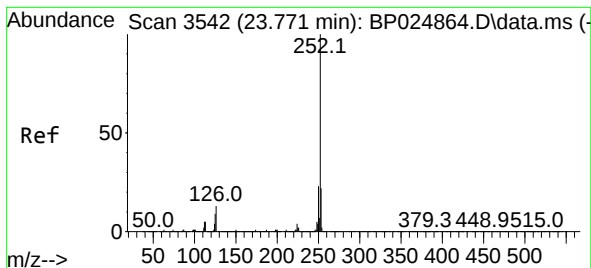
Ion Ratio Lower Upper

252 100

253 24.4 17.6 26.4

125 10.9 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 3.543 ng m

RT: 23.795 min Scan# 3

Delta R.T. 0.024 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

Instrument :

BNA\_P

ClientSampleId :

TP-26

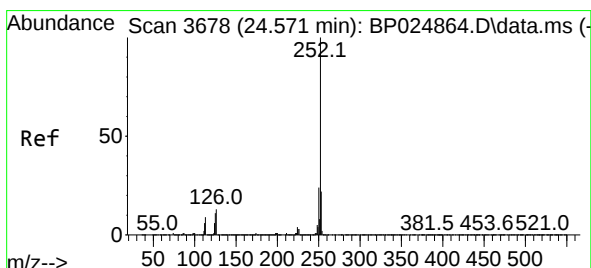
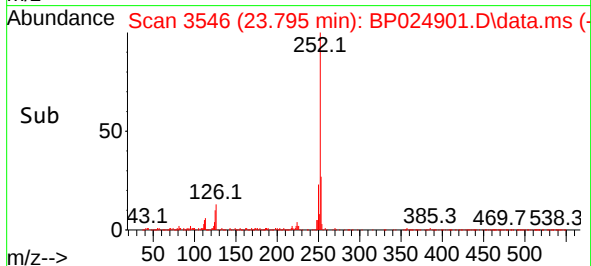
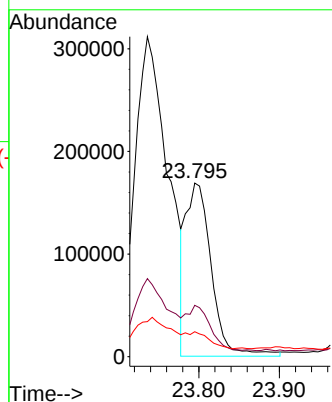
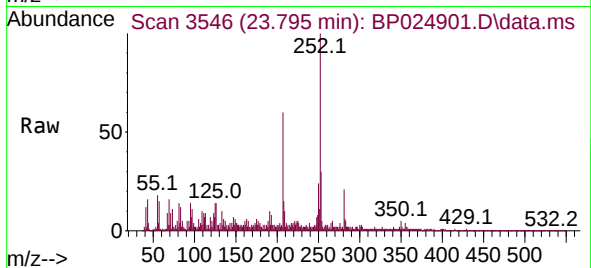
Tgt Ion:252 Resp: 371610

Ion Ratio Lower Upper

252 100

253 29.6 17.7 26.5#

125 14.4 7.4 11.0#



#90

Benzo(a)pyrene

Concen: 6.169 ng

RT: 24.607 min Scan# 3684

Delta R.T. 0.035 min

Lab File: BP024901.D

Acq: 10 Jun 2025 19:51

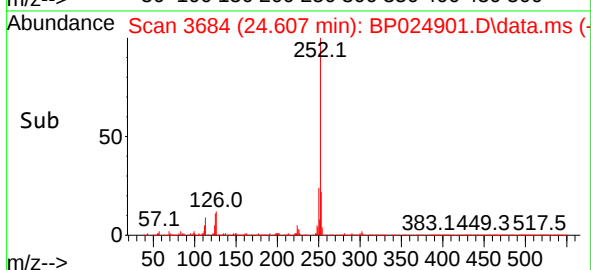
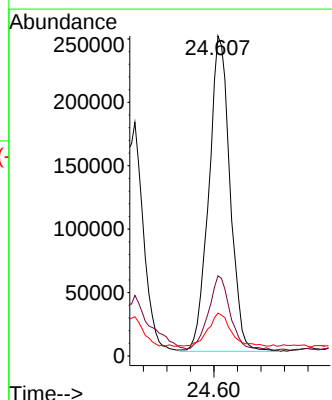
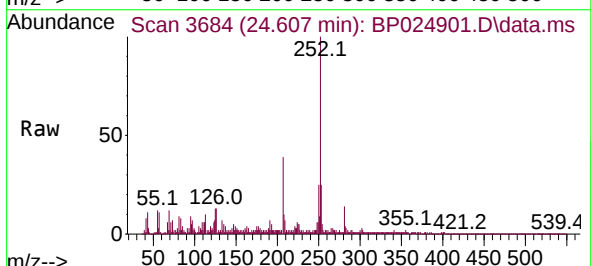
Tgt Ion:252 Resp: 620829

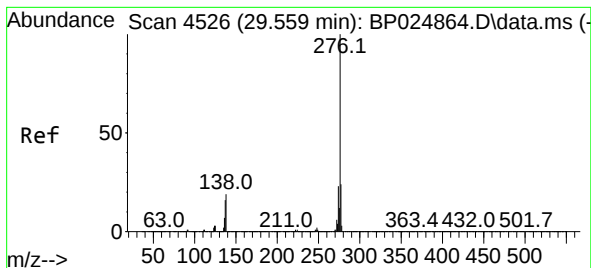
Ion Ratio Lower Upper

252 100

253 25.1 17.5 26.3

125 13.4 8.8 13.2#





#92

Benzo(g,h,i)perylene

Concen: 4.071 ng

RT: 29.618 min Scan# 4

Delta R.T. 0.059 min

Lab File: BP024901.D

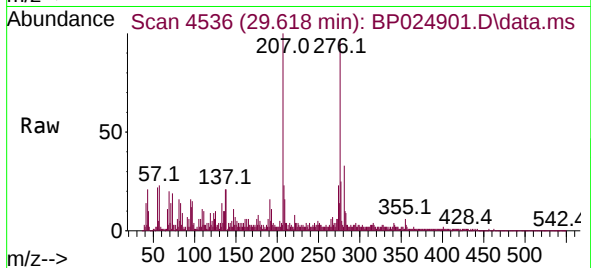
Acq: 10 Jun 2025 19:51

Instrument :

BNA\_P

ClientSampleId :

TP-26



Tgt Ion:276 Resp: 431887

Ion Ratio Lower Upper

276 100

277 25.8 19.1 28.7

138 21.9 15.4 23.2

