

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF053025\  
 Data File : BF142586.D  
 Acq On : 30 May 2025 23:10  
 Operator : RC/JU  
 Sample : Q2150-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-44

Quant Time: May 31 00:12:12 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF052025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 20 16:26:47 2025  
 Response via : Initial Calibration

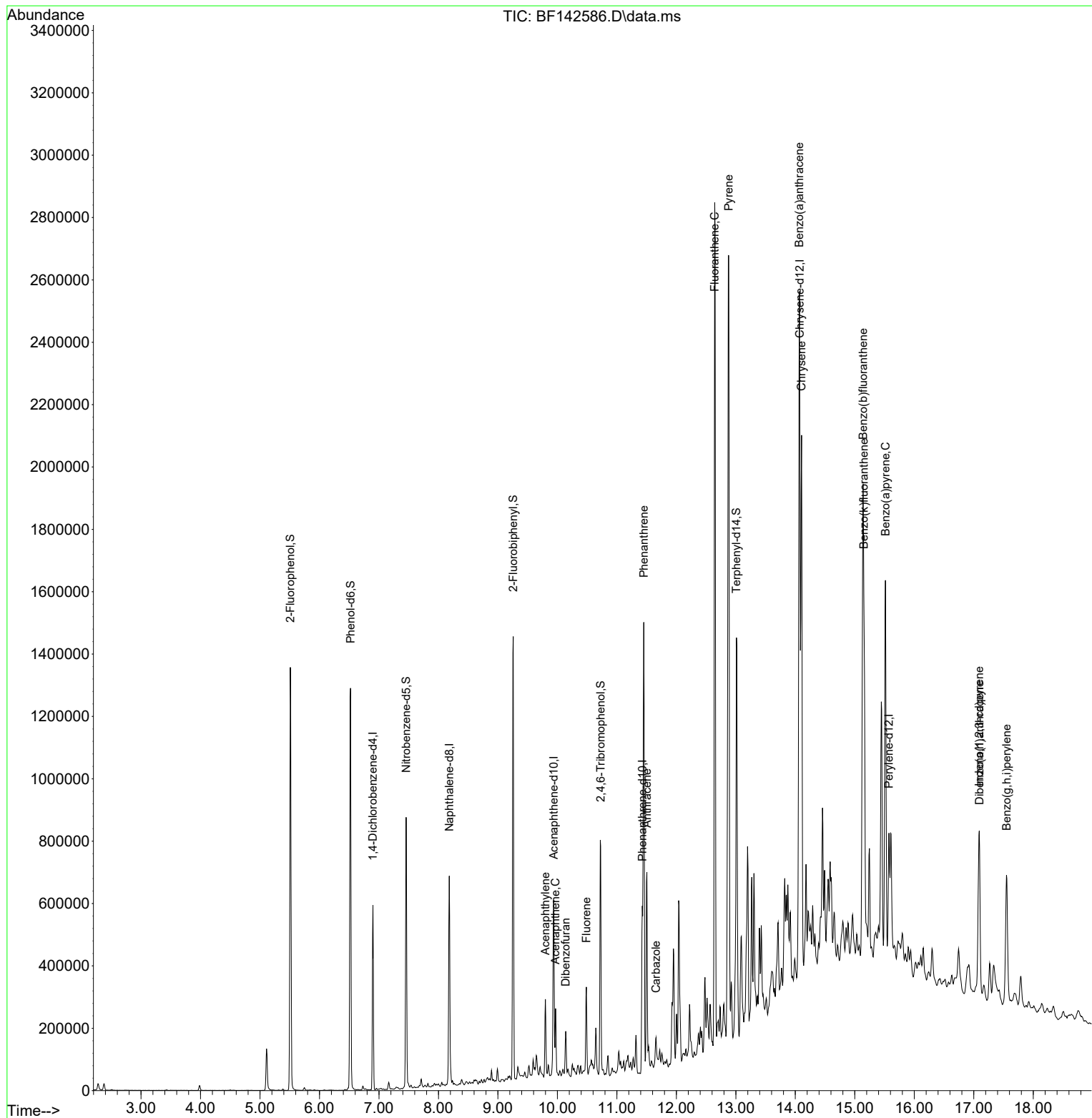
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.898  | 152  | 127932   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.181  | 136  | 419456   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.939  | 164  | 173324   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.428 | 188  | 272258   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.074 | 240  | 273238   | 20.000  | ng    | # 0.00   |
| 86) Perylene-d12            | 15.574 | 264  | 220770   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.510  | 112  | 530834   | 69.906  | ng    | 0.00     |
| 7) Phenol-d6                | 6.522  | 99   | 616313   | 67.425  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.457  | 82   | 362018   | 47.062  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.728 | 330  | 122333   | 63.593  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.257  | 172  | 648355   | 50.195  | ng    | -0.01    |
| 79) Terphenyl-d14           | 13.010 | 244  | 620873   | 31.052  | ng    | 0.00     |
| Target Compounds            |        |      |          |         |       |          |
|                             |        |      |          |         |       | Qvalue   |
| 49) Acenaphthylene          | 9.798  | 152  | 139334   | 8.306   | ng    | 99       |
| 52) Acenaphthene            | 9.969  | 154  | 63172    | 6.167   | ng    | 99       |
| 55) Dibenzofuran            | 10.139 | 168  | 71986    | 4.883   | ng    | 98       |
| 58) Fluorene                | 10.486 | 166  | 122179   | 10.729  | ng    | 100      |
| 71) Phenanthrene            | 11.451 | 178  | 761506   | 52.337  | ng    | 100      |
| 72) Anthracene              | 11.504 | 178  | 375473   | 25.285  | ng    | 99       |
| 73) Carbazole               | 11.657 | 167  | 50150    | 3.950   | ng    | 99       |
| 75) Fluoranthene            | 12.645 | 202  | 1677367  | 123.377 | ng    | 97       |
| 78) Pyrene                  | 12.880 | 202  | 1627047  | 63.833  | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.069 | 228  | 1158541  | 63.497  | ng    | 92       |
| 83) Chrysene                | 14.104 | 228  | 860064   | 52.460  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.092 | 276  | 403177   | 24.326  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 15.139 | 252  | 1057398m | 80.926  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.151 | 252  | 444893m  | 36.354  | ng    |          |
| 90) Benzo(a)pyrene          | 15.516 | 252  | 736688   | 59.815  | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 17.098 | 278  | 103346   | 7.688   | ng    | # 91     |
| 92) Benzo(g,h,i)perylene    | 17.551 | 276  | 385367   | 28.662  | ng    | 98       |

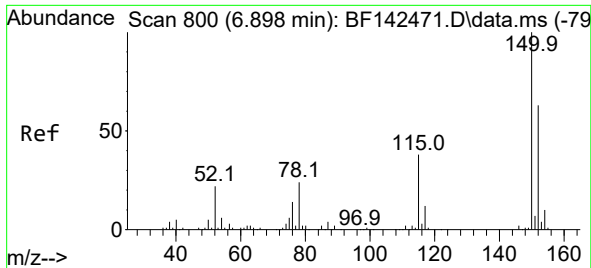
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF053025\  
Data File : BF142586.D  
Acq On : 30 May 2025 23:10  
Operator : RC/JU  
Sample : Q2150-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-44

Quant Time: May 31 00:12:12 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF052025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 20 16:26:47 2025  
Response via : Initial Calibration

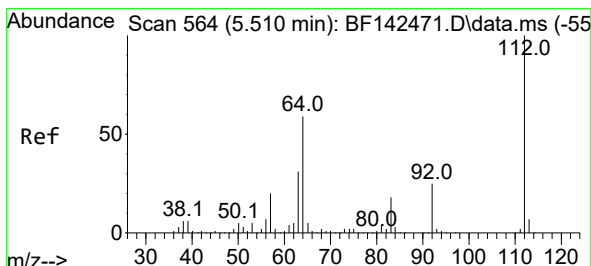
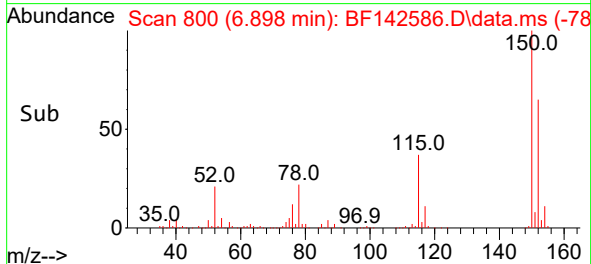
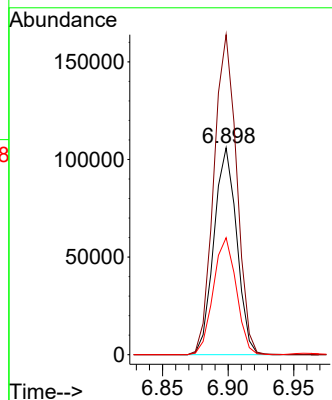
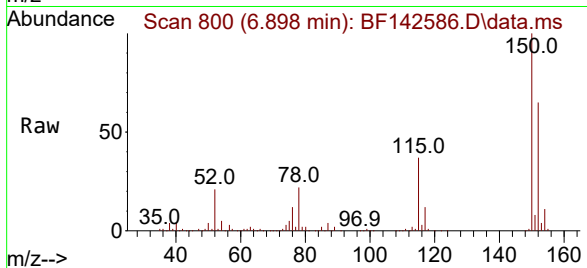




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.898 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

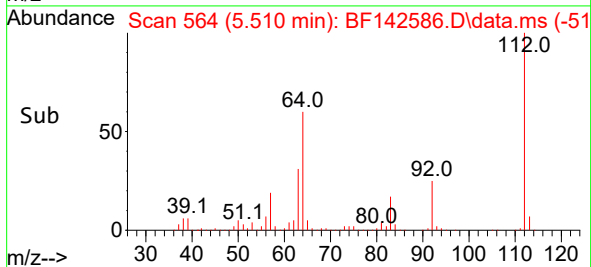
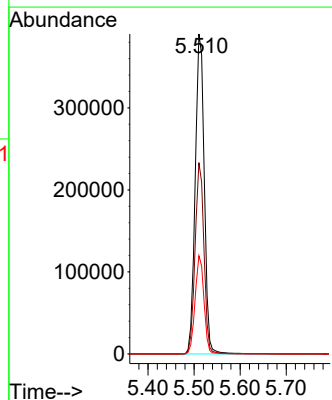
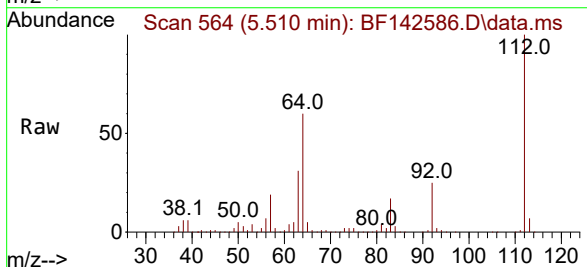
Instrument :  
BNA\_F  
ClientSampleId :  
TP-44

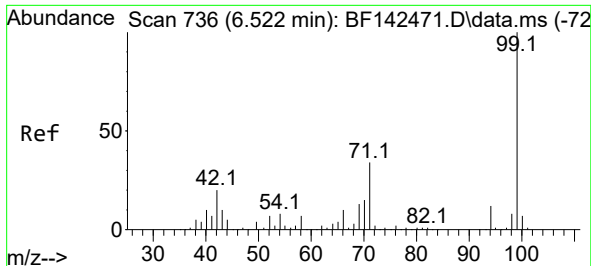
Tgt Ion:152 Resp: 127932  
Ion Ratio Lower Upper  
152 100  
150 154.7 128.2 192.4  
115 56.5 48.3 72.5



#5  
2-Fluorophenol  
Concen: 69.906 ng  
RT: 5.510 min Scan# 564  
Delta R.T. -0.006 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

Tgt Ion:112 Resp: 530834  
Ion Ratio Lower Upper  
112 100  
64 59.8 47.5 71.3  
63 30.7 24.9 37.3

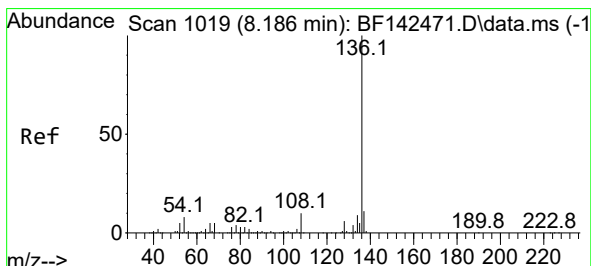
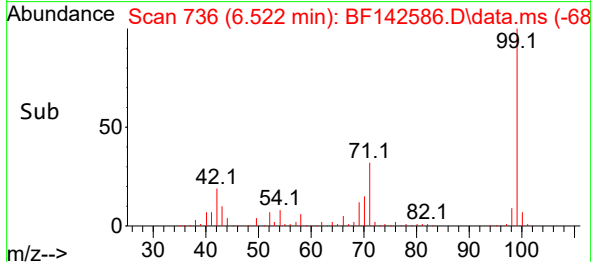
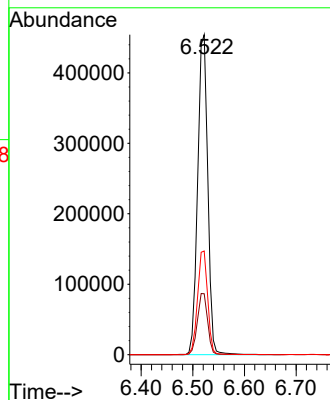
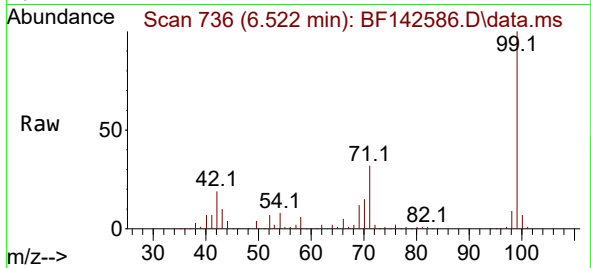




#7  
Phenol-d6  
Concen: 67.425 ng  
RT: 6.522 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

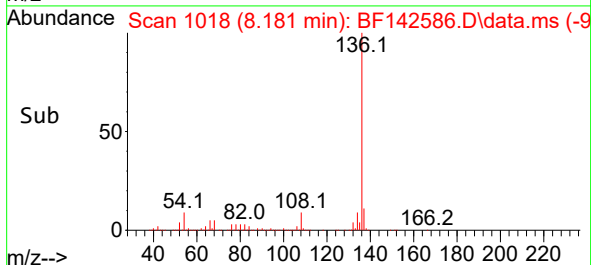
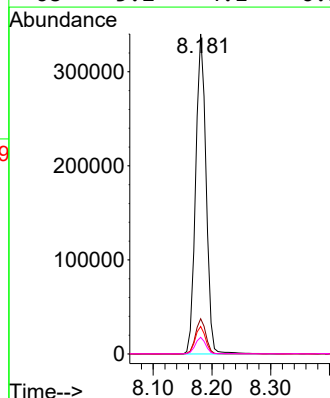
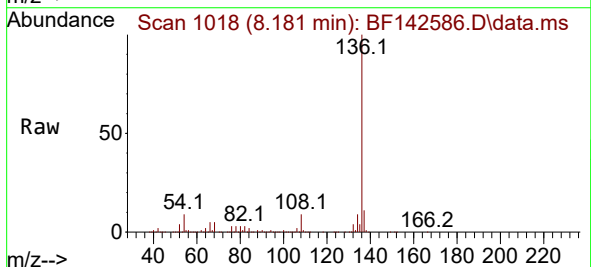
Instrument :  
BNA\_F  
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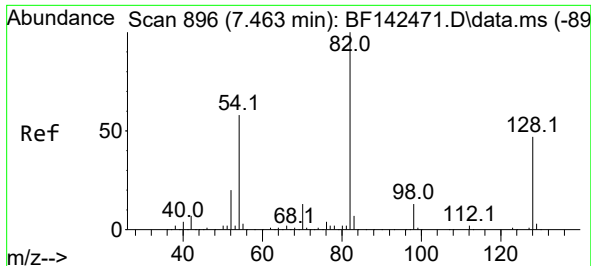
Tgt Ion: 99 Resp: 616313  
Ion Ratio Lower Upper  
99 100  
42 19.0 16.2 24.2  
71 32.4 27.3 40.9



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.181 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

Tgt Ion:136 Resp: 419456  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.6 13.0  
54 8.6 6.6 10.0  
68 5.2 4.1 6.1





#23

Nitrobenzene-d5

Concen: 47.062 ng

RT: 7.457 min Scan# 895

Delta R.T. -0.017 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA\_F

ClientSampleId :

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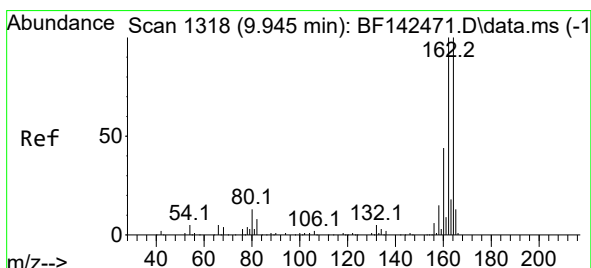
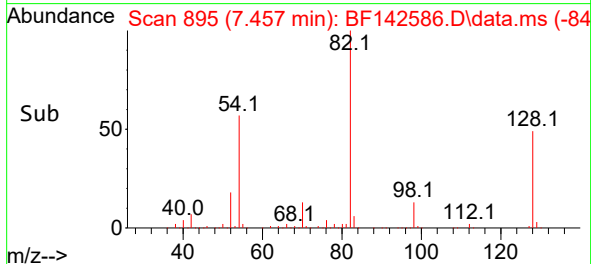
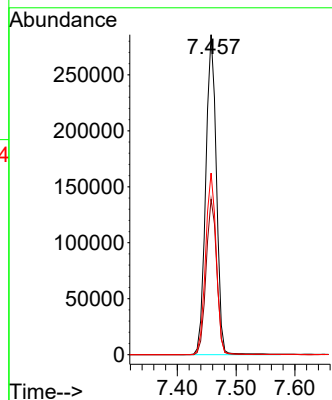
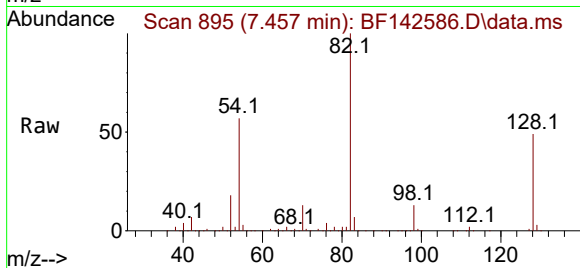
Tgt Ion: 82 Resp: 362018

Ion Ratio Lower Upper

82 100

128 48.6 37.4 56.2

54 56.7 46.6 70.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

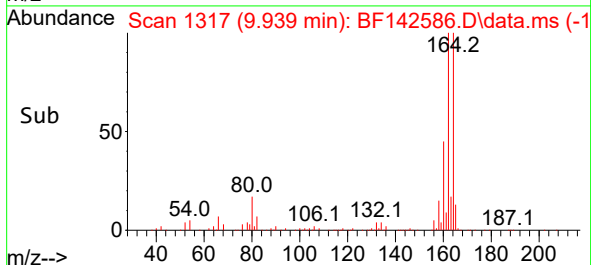
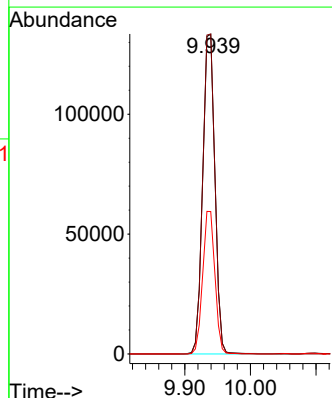
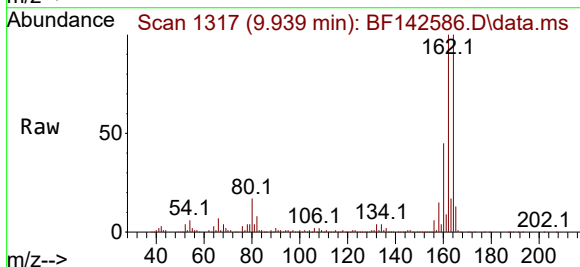
Tgt Ion:164 Resp: 173324

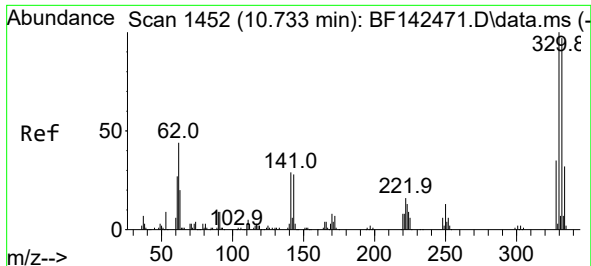
Ion Ratio Lower Upper

164 100

162 100.1 80.2 120.4

160 44.6 35.6 53.4

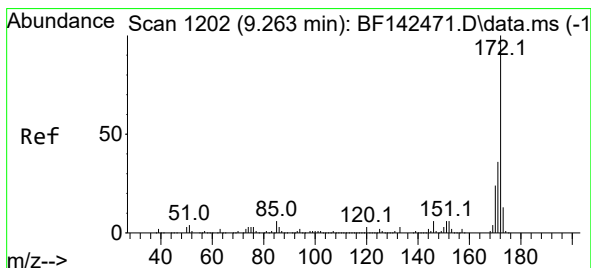
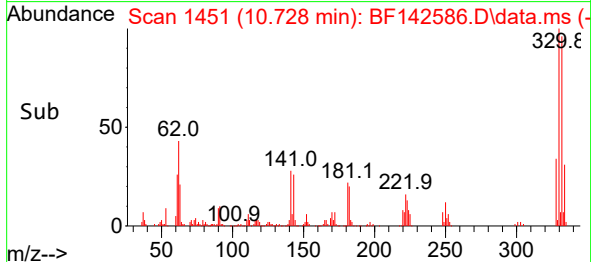
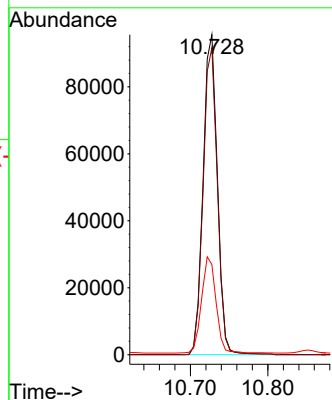
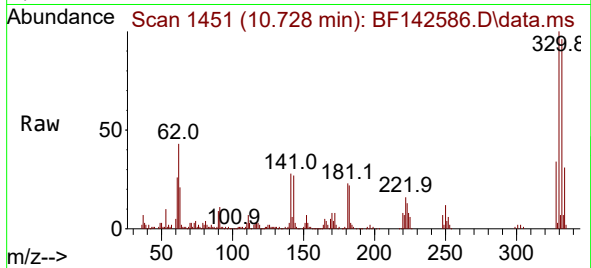




#42  
2,4,6-Tribromophenol  
Concen: 63.593 ng  
RT: 10.728 min Scan# 1451  
Delta R.T. -0.012 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

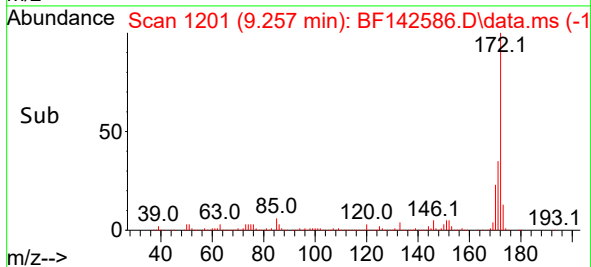
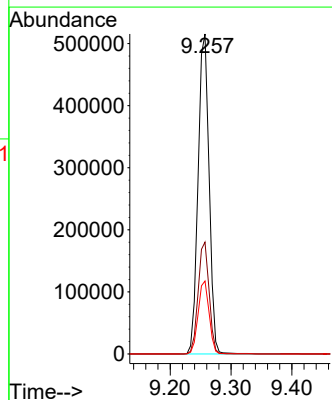
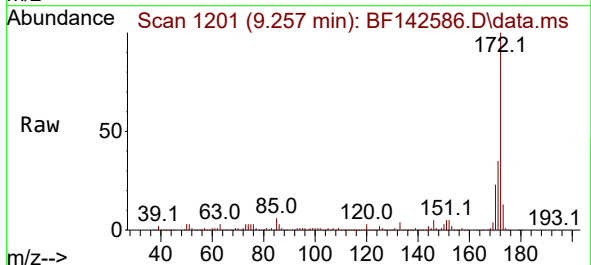
Instrument :  
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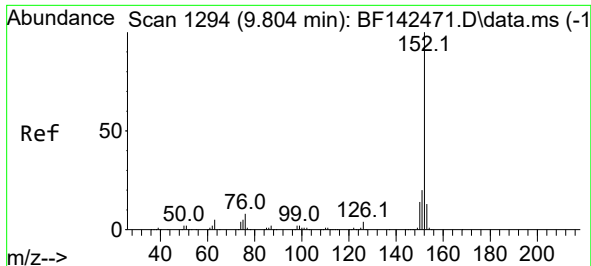
Tgt Ion:330 Resp: 122333  
Ion Ratio Lower Upper  
330 100  
332 95.4 77.6 116.4  
141 30.6 24.6 36.8



#45  
2-Fluorobiphenyl  
Concen: 50.195 ng  
RT: 9.257 min Scan# 1201  
Delta R.T. -0.011 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

Tgt Ion:172 Resp: 648355  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.6 42.8  
170 22.8 18.9 28.3





#49

Acenaphthylene

Concen: 8.306 ng

RT: 9.798 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA\_F

ClientSampleId :

TP-44

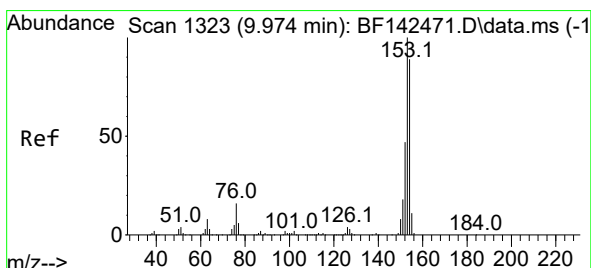
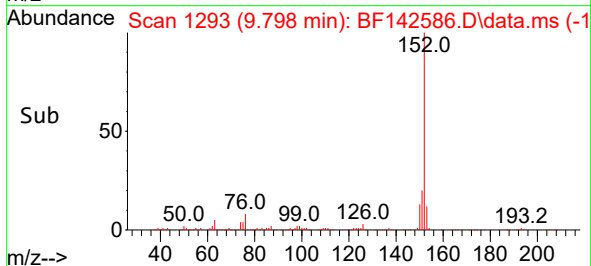
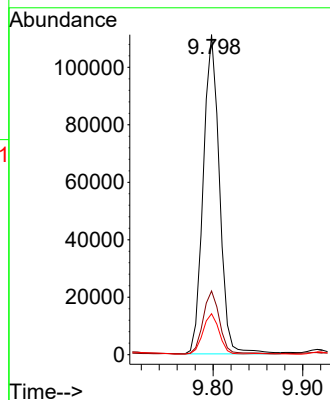
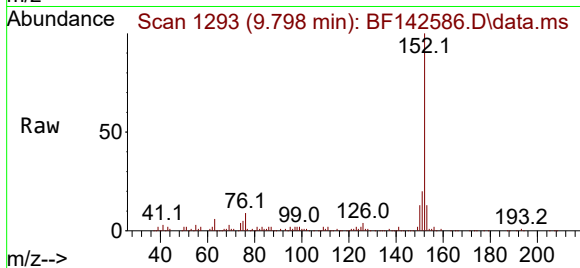
Tgt Ion:152 Resp: 139334

Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

153 12.8 10.6 15.8



#52

Acenaphthene

Concen: 6.167 ng

RT: 9.969 min Scan# 1322

Delta R.T. -0.011 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

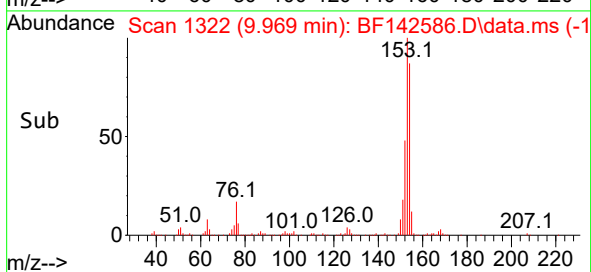
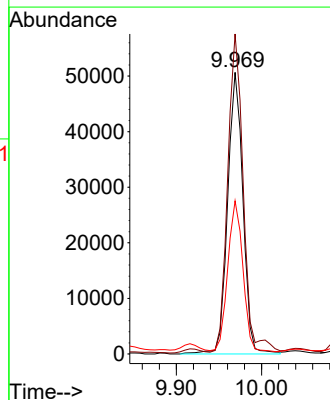
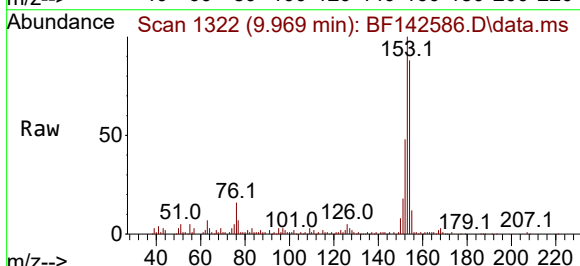
Tgt Ion:154 Resp: 63172

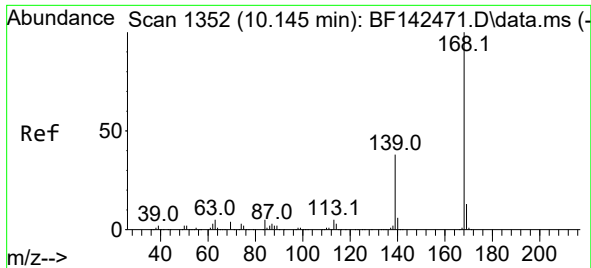
Ion Ratio Lower Upper

154 100

153 113.6 90.0 135.0

152 54.4 42.6 64.0

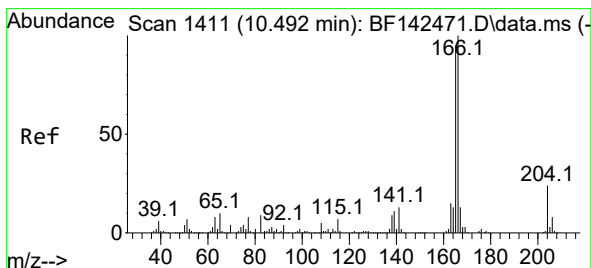
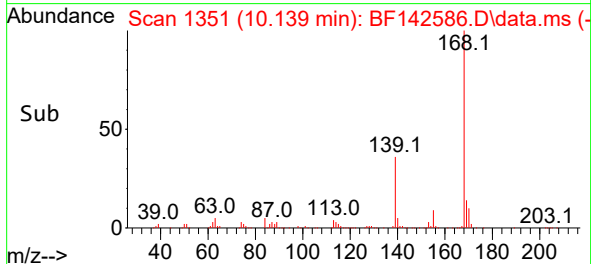
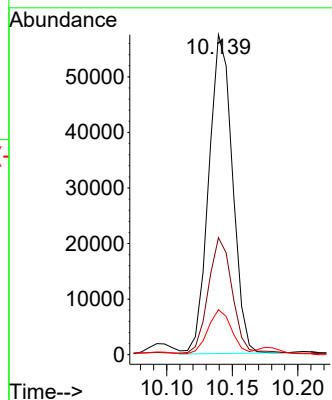
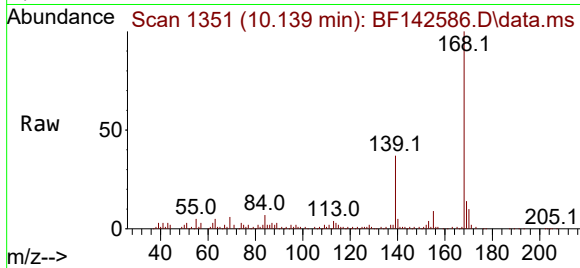




#55  
Dibenzenofuran  
Concen: 4.883 ng  
RT: 10.139 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

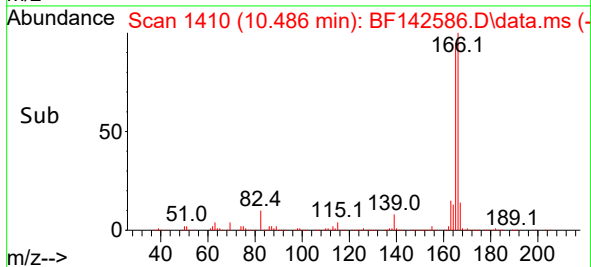
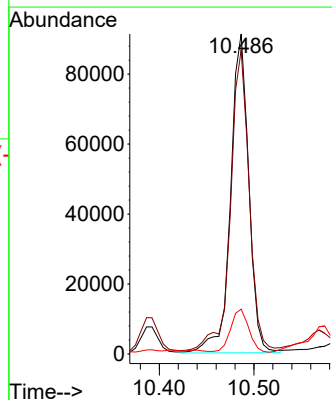
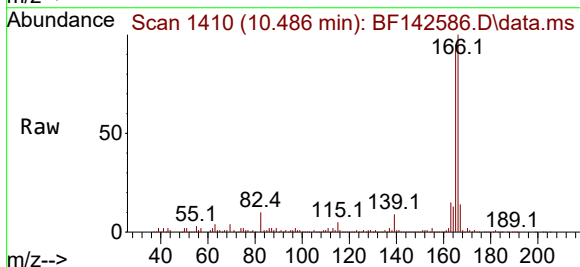
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion:168 Resp: 71986  
Ion Ratio Lower Upper  
168 100  
139 36.5 30.2 45.2  
169 14.0 10.7 16.1

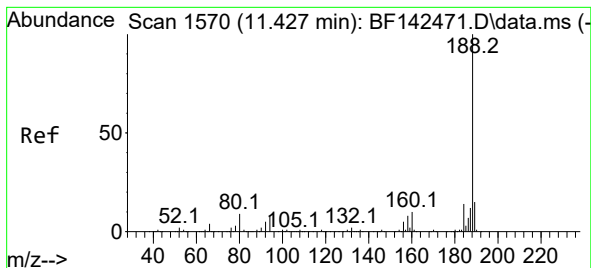


#58  
Fluorene  
Concen: 10.729 ng  
RT: 10.486 min Scan# 1410  
Delta R.T. -0.011 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

Tgt Ion:166 Resp: 122179  
Ion Ratio Lower Upper  
166 100  
165 95.0 75.8 113.8  
167 14.0 10.6 16.0







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.428 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA\_F

ClientSampleId :

TP-44

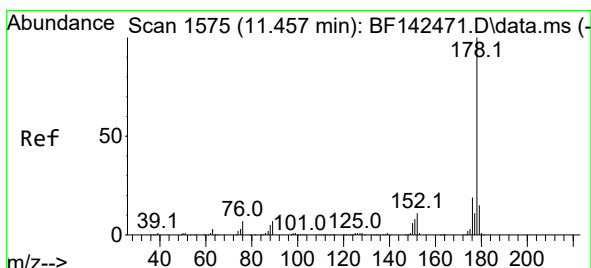
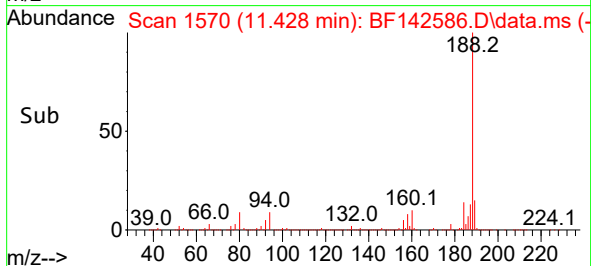
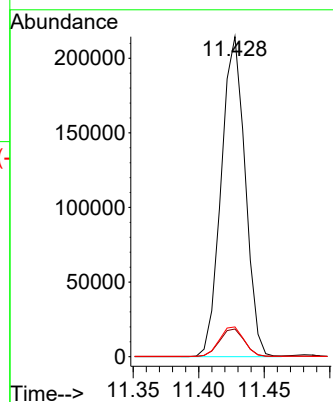
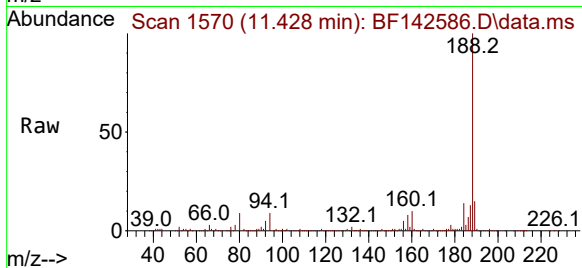
Tgt Ion:188 Resp: 272258

Ion Ratio Lower Upper

188 100

94 8.6 6.6 10.0

80 9.3 7.4 11.0



#71

Phenanthrene

Concen: 52.337 ng

RT: 11.451 min Scan# 1574

Delta R.T. -0.006 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

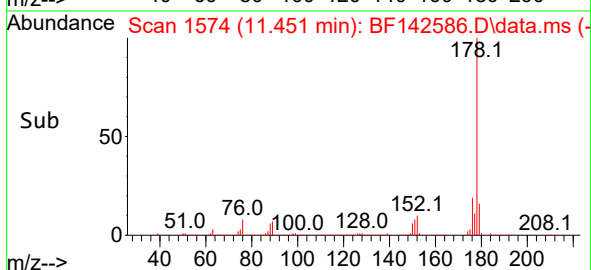
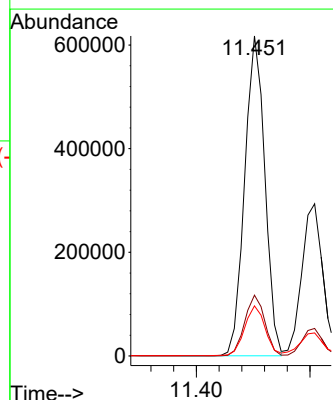
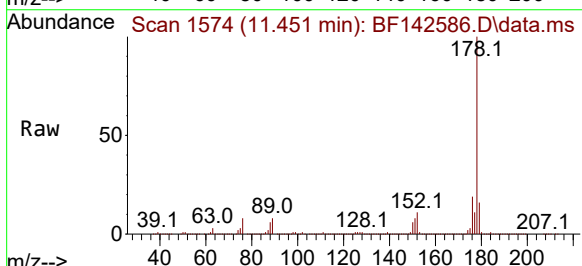
Tgt Ion:178 Resp: 761506

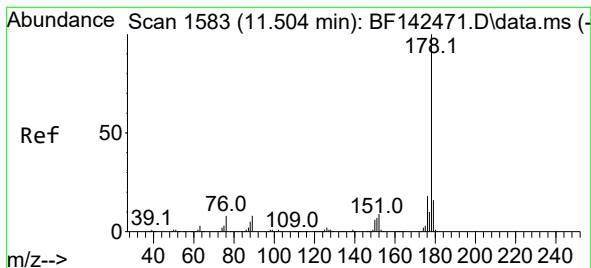
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.0

179 15.7 12.3 18.5





#72

Anthracene

Concen: 25.285 ng

RT: 11.504 min Scan# 1583

Delta R.T. -0.006 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA\_F

ClientSampleId :

TP-44

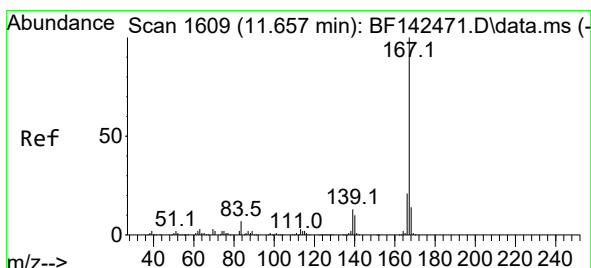
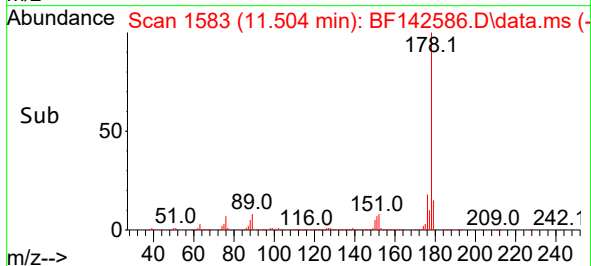
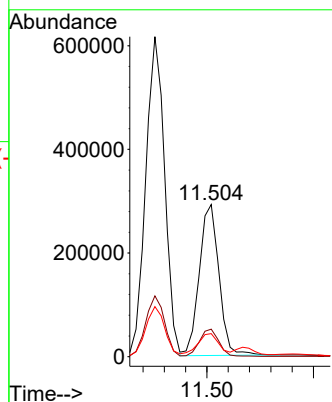
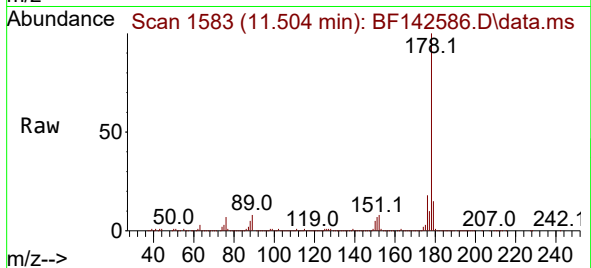
Tgt Ion:178 Resp: 375473

Ion Ratio Lower Upper

178 100

176 18.0 14.6 21.8

179 15.2 12.4 18.6



#73

Carbazole

Concen: 3.950 ng

RT: 11.657 min Scan# 1609

Delta R.T. -0.006 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

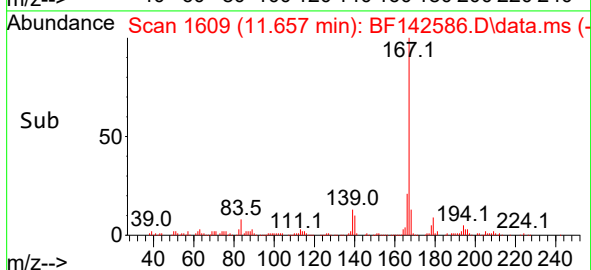
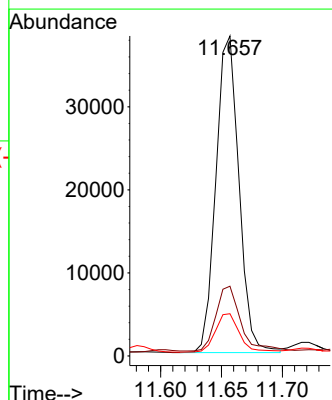
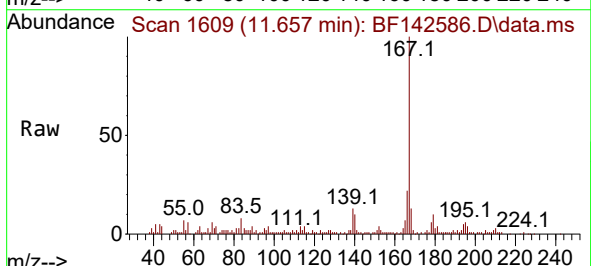
Tgt Ion:167 Resp: 50150

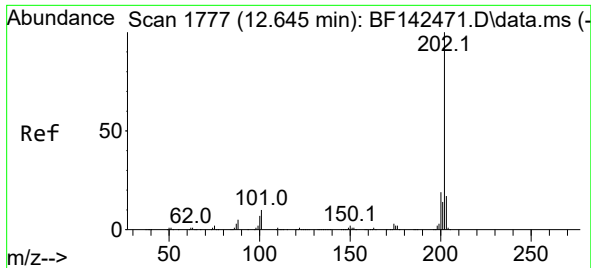
Ion Ratio Lower Upper

167 100

166 21.8 16.9 25.3

139 13.2 10.2 15.4

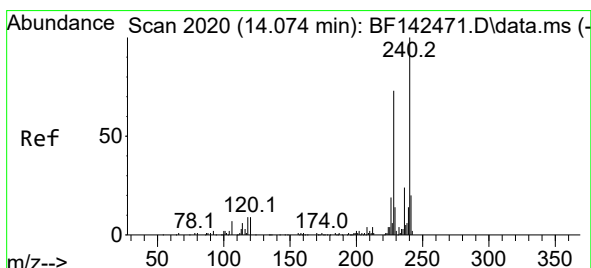
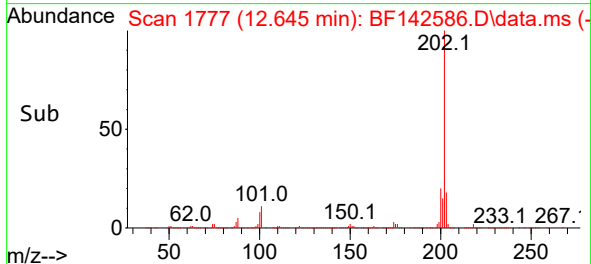
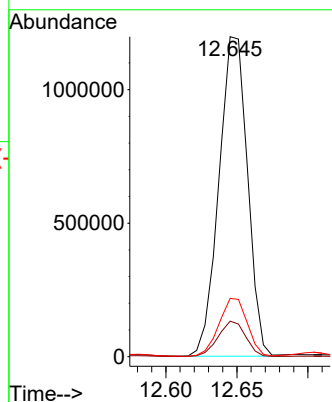
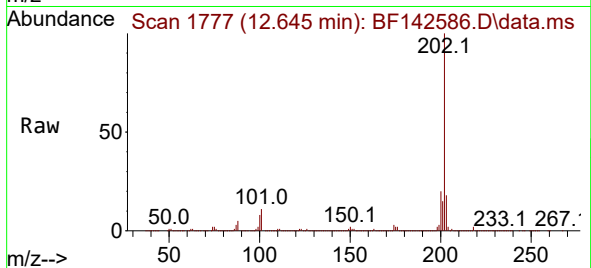




#75  
Fluoranthene  
Concen: 123.377 ng  
RT: 12.645 min Scan# 1777  
Delta R.T. 0.000 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

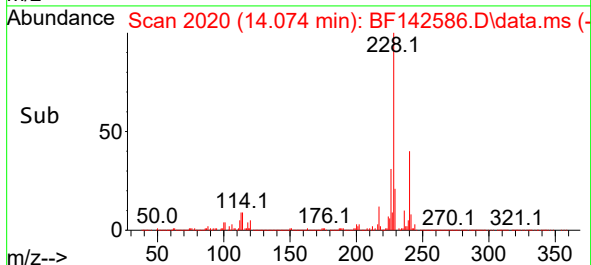
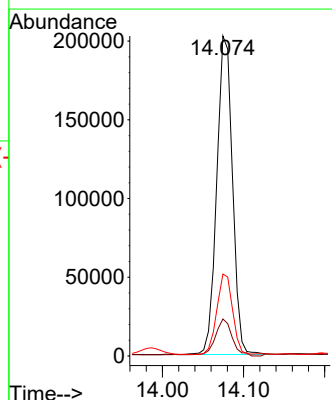
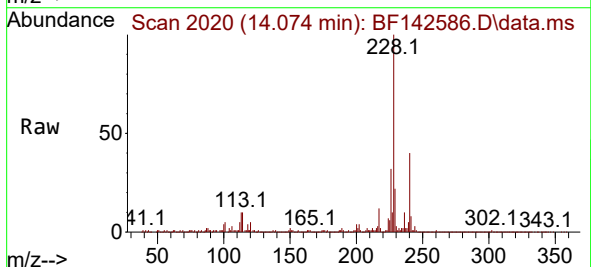
Instrument :  
BNA\_F  
ClientSampleId :  
TP-44

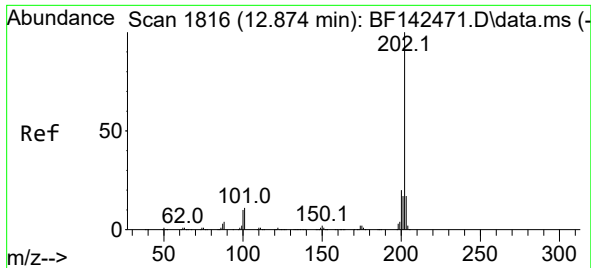
Tgt Ion:202 Resp: 1677367  
Ion Ratio Lower Upper  
202 100  
101 11.1 0.0 29.6  
203 18.2 0.0 37.2



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.074 min Scan# 2020  
Delta R.T. 0.000 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

Tgt Ion:240 Resp: 273238  
Ion Ratio Lower Upper  
240 100  
120 11.6 7.5 11.3#  
236 25.6 19.6 29.4

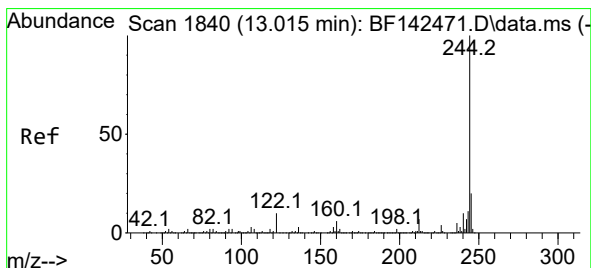
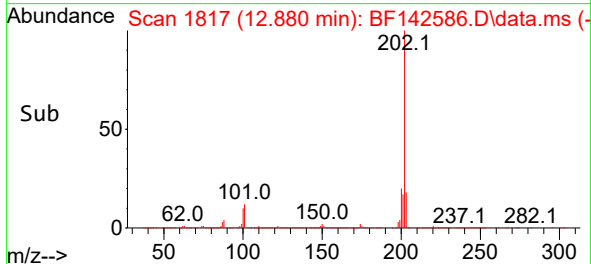
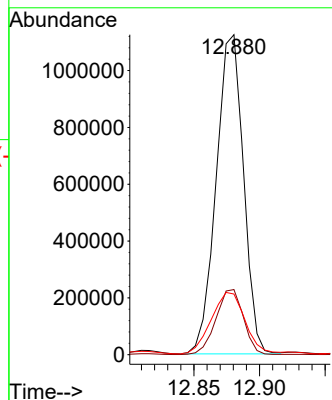
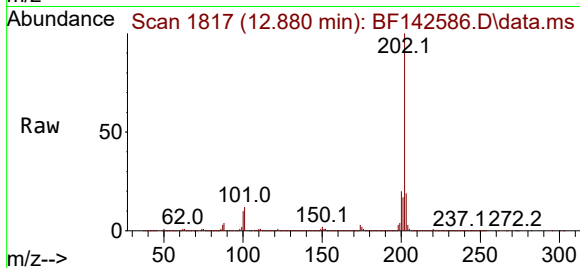




#78  
 Pyrene  
 Concen: 63.833 ng  
 RT: 12.880 min Scan# 1816  
 Delta R.T. 0.006 min  
 Lab File: BF142586.D  
 Acq: 30 May 2025 23:10

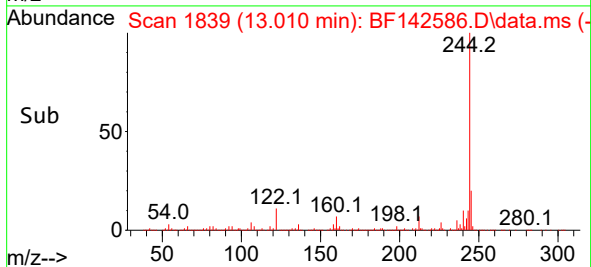
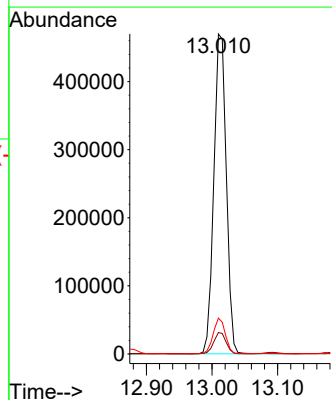
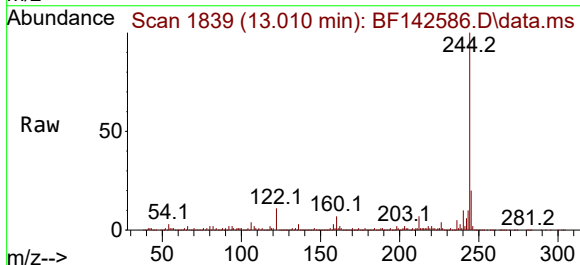
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-44

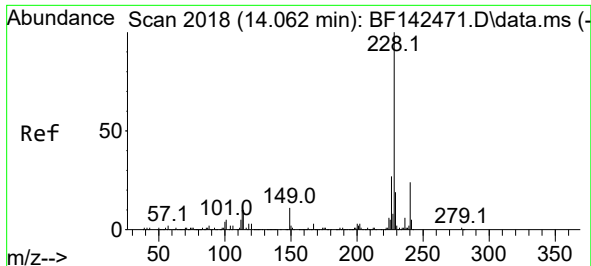
Tgt Ion:202 Resp: 1627047  
 Ion Ratio Lower Upper  
 202 100  
 200 20.3 16.1 24.1  
 203 19.0 13.9 20.9



#79  
 Terphenyl-d14  
 Concen: 31.052 ng  
 RT: 13.010 min Scan# 1839  
 Delta R.T. -0.006 min  
 Lab File: BF142586.D  
 Acq: 30 May 2025 23:10

Tgt Ion:244 Resp: 620873  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.3 7.9  
 122 11.2 8.2 12.2

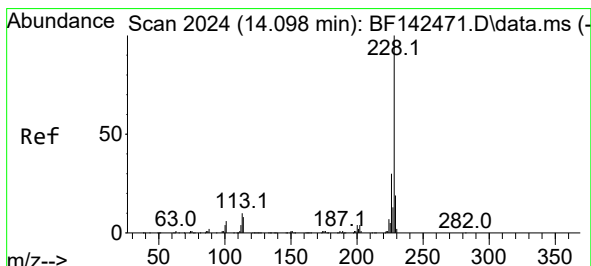
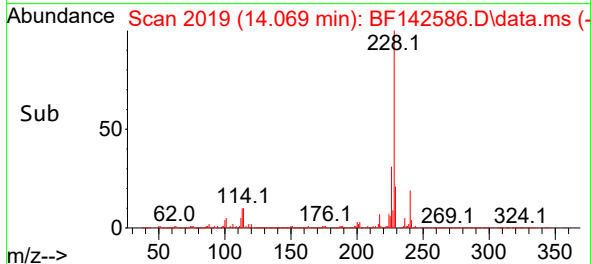
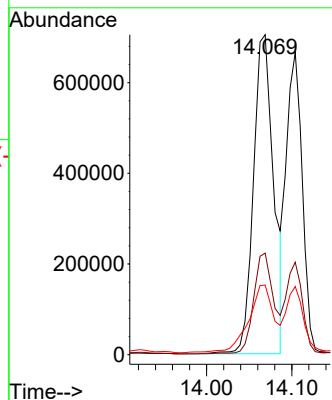
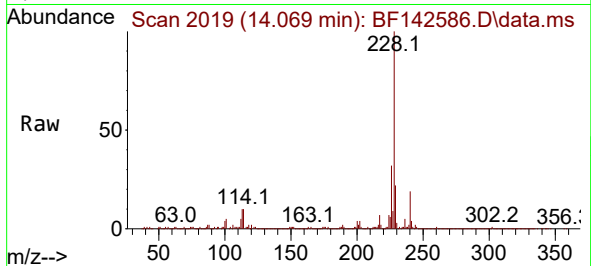




#81  
Benzo(a)anthracene  
Concen: 63.497 ng  
RT: 14.069 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

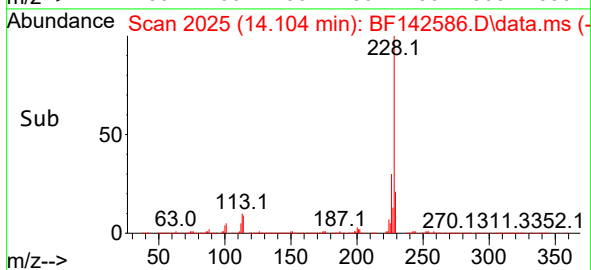
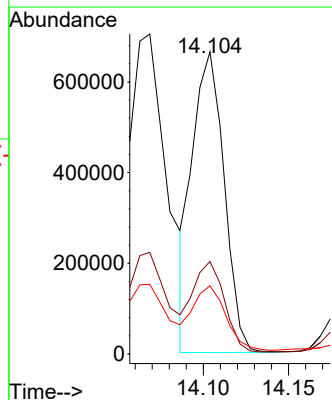
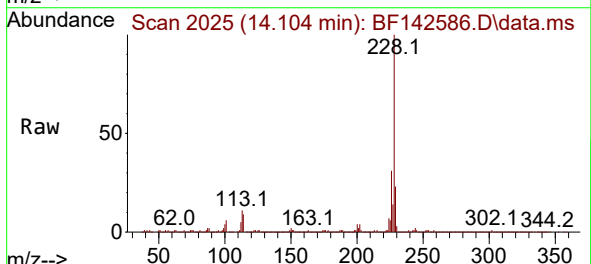
Instrument :  
BNA\_F  
ClientSampleId :  
TP-44

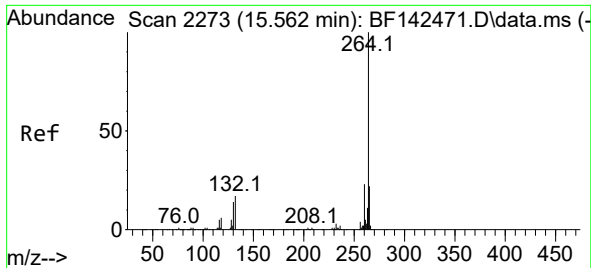
Tgt Ion:228 Resp: 1158541  
Ion Ratio Lower Upper  
228 100  
226 31.7 21.2 31.8  
229 21.8 15.5 23.3



#83  
Chrysene  
Concen: 52.460 ng  
RT: 14.104 min Scan# 2025  
Delta R.T. 0.000 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

Tgt Ion:228 Resp: 860064  
Ion Ratio Lower Upper  
228 100  
226 30.6 23.8 35.6  
229 22.5 15.4 23.2

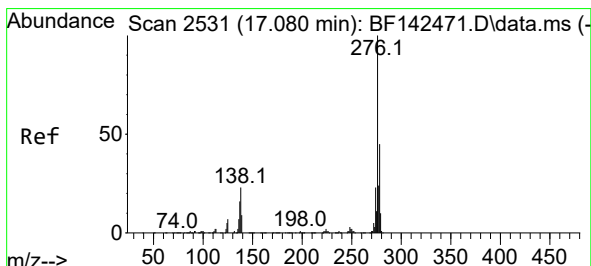
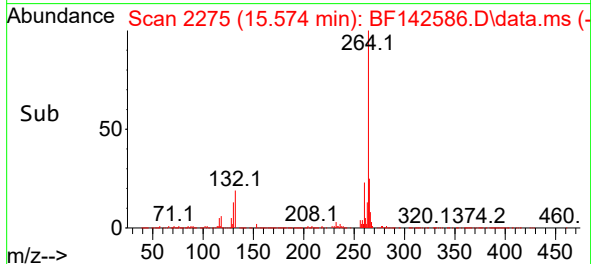
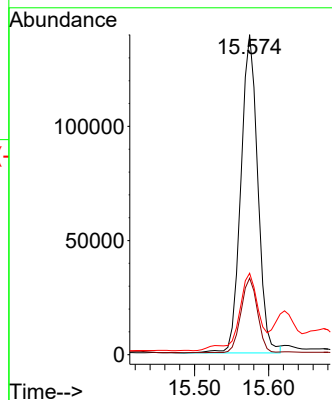
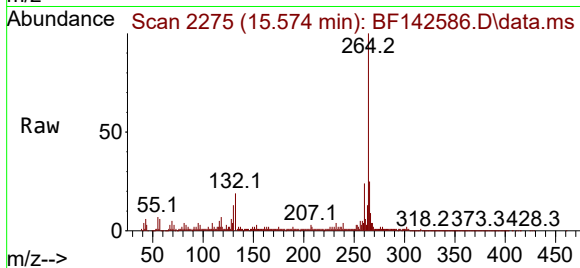




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.574 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

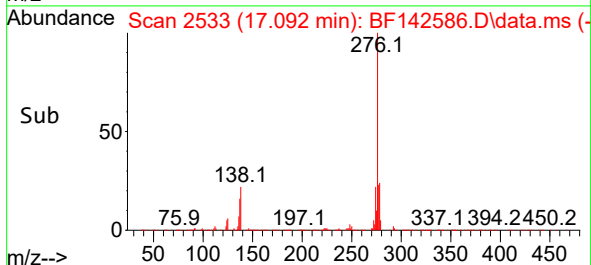
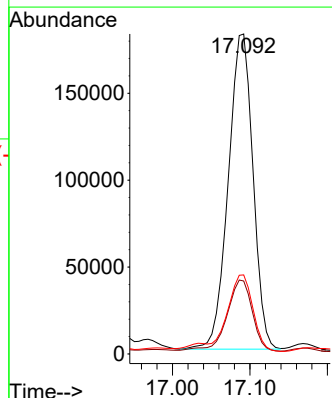
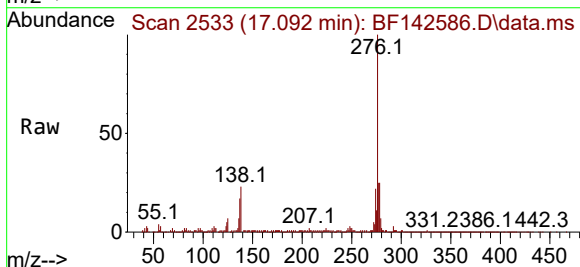
Instrument :  
BNA\_F  
ClientSampleId :  
TP-44

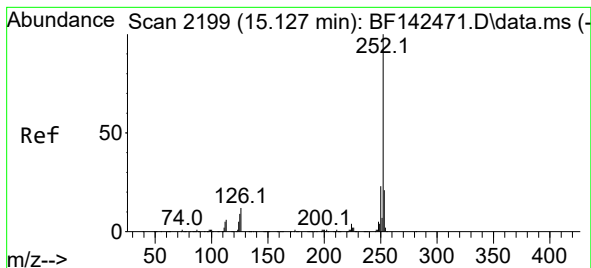
Tgt Ion:264 Resp: 220770  
Ion Ratio Lower Upper  
264 100  
260 23.9 18.6 28.0  
265 25.5 17.7 26.5



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 24.326 ng  
RT: 17.092 min Scan# 2533  
Delta R.T. 0.000 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

Tgt Ion:276 Resp: 403177  
Ion Ratio Lower Upper  
276 100  
138 23.1 19.9 29.9  
277 26.8 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 80.926 ng m

RT: 15.139 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA\_F

ClientSampleId :

TP-44

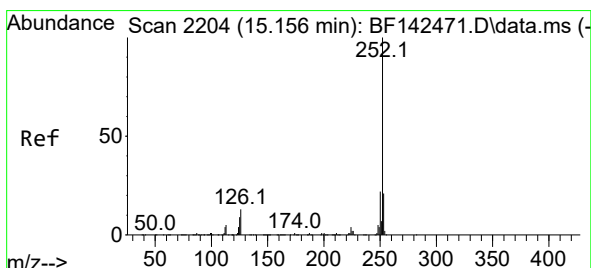
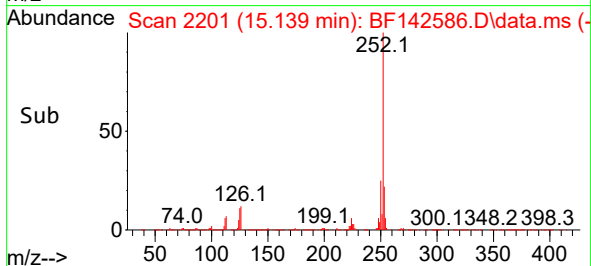
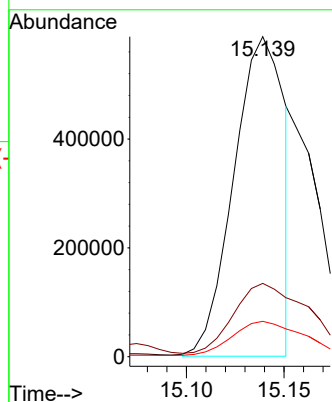
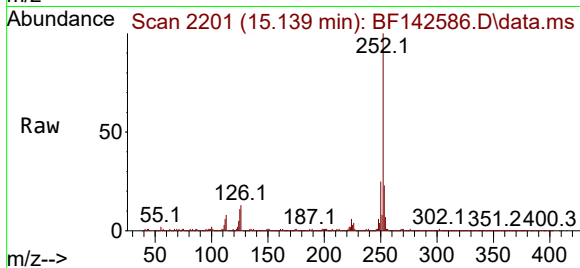
Tgt Ion:252 Resp: 1057398

Ion Ratio Lower Upper

252 100

253 22.9 17.0 25.4

125 11.1 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 36.354 ng m

RT: 15.151 min Scan# 2203

Delta R.T. -0.012 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

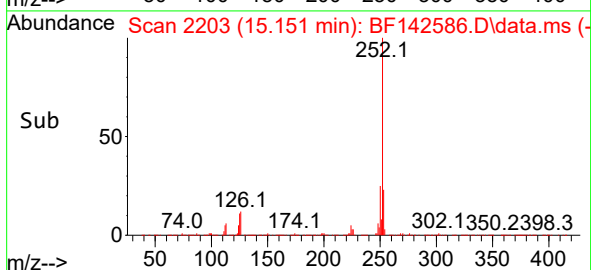
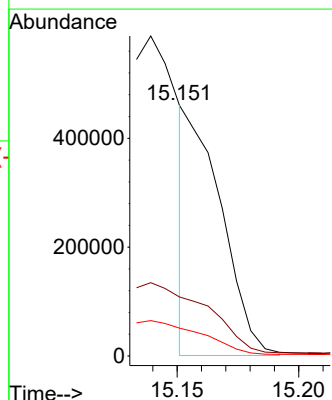
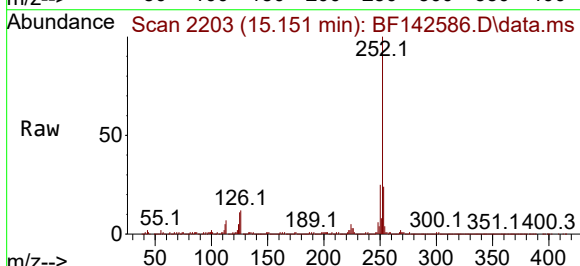
Tgt Ion:252 Resp: 444893

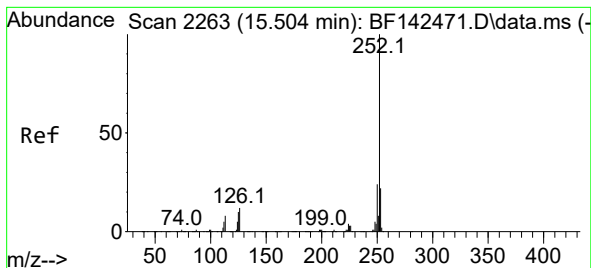
Ion Ratio Lower Upper

252 100

253 23.5 17.0 25.4

125 11.1 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 59.815 ng

RT: 15.516 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

Instrument :

BNA\_F

ClientSampleId :

TP-44

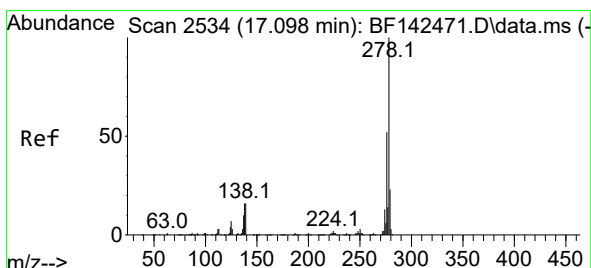
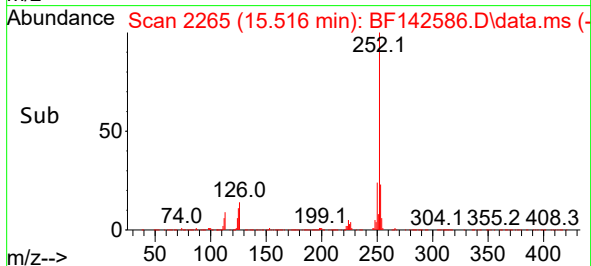
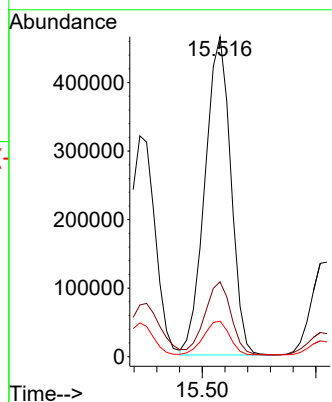
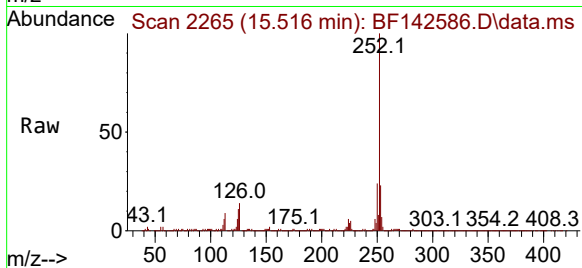
Tgt Ion:252 Resp: 736688

Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

125 11.1 7.9 11.9



#91

Dibenzo(a,h)anthracene

Concen: 7.688 ng

RT: 17.098 min Scan# 2534

Delta R.T. -0.017 min

Lab File: BF142586.D

Acq: 30 May 2025 23:10

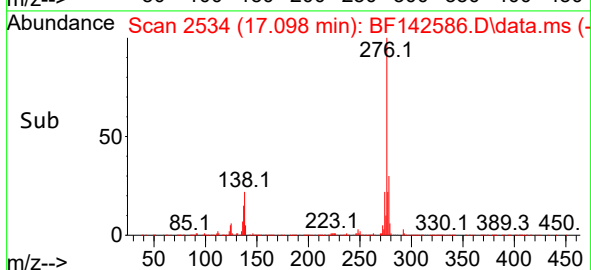
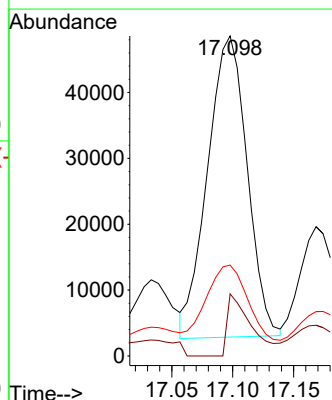
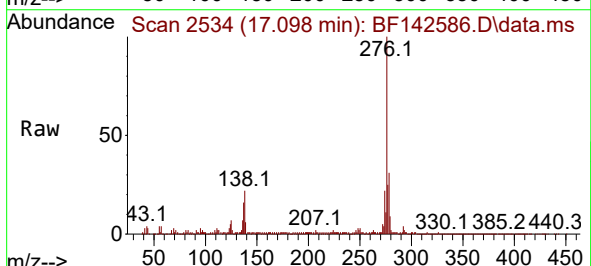
Tgt Ion:278 Resp: 103346

Ion Ratio Lower Upper

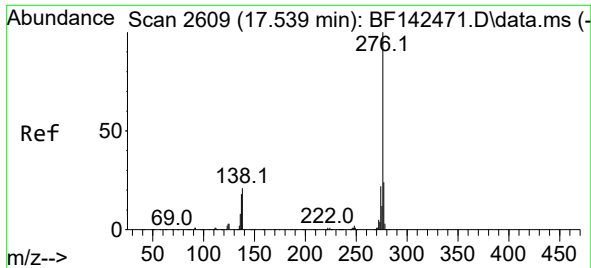
278 100

139 19.4 12.8 19.2#

279 28.4 18.6 28.0#

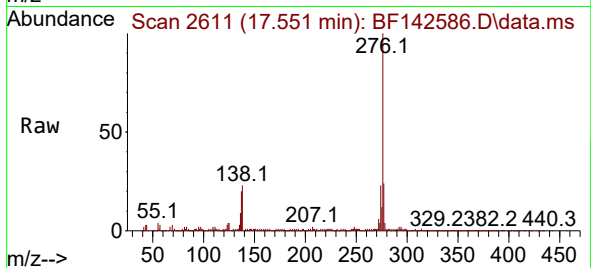






#92  
Benzo(g,h,i)perylene  
Concen: 28.662 ng  
RT: 17.551 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF142586.D  
Acq: 30 May 2025 23:10

Instrument :  
BNA\_F  
ClientSampleId :  
TP-44



Tgt Ion:276 Resp: 385367  
Ion Ratio Lower Upper  
276 100  
277 24.2 19.2 28.8  
138 23.1 16.8 25.2

