

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101325\  
 Data File : BF143943.D  
 Acq On : 13 Oct 2025 20:25  
 Operator : RC/JU  
 Sample : Q3326-05  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-2

Quant Time: Oct 14 01:31:11 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF100625.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 06 15:29:47 2025  
 Response via : Initial Calibration

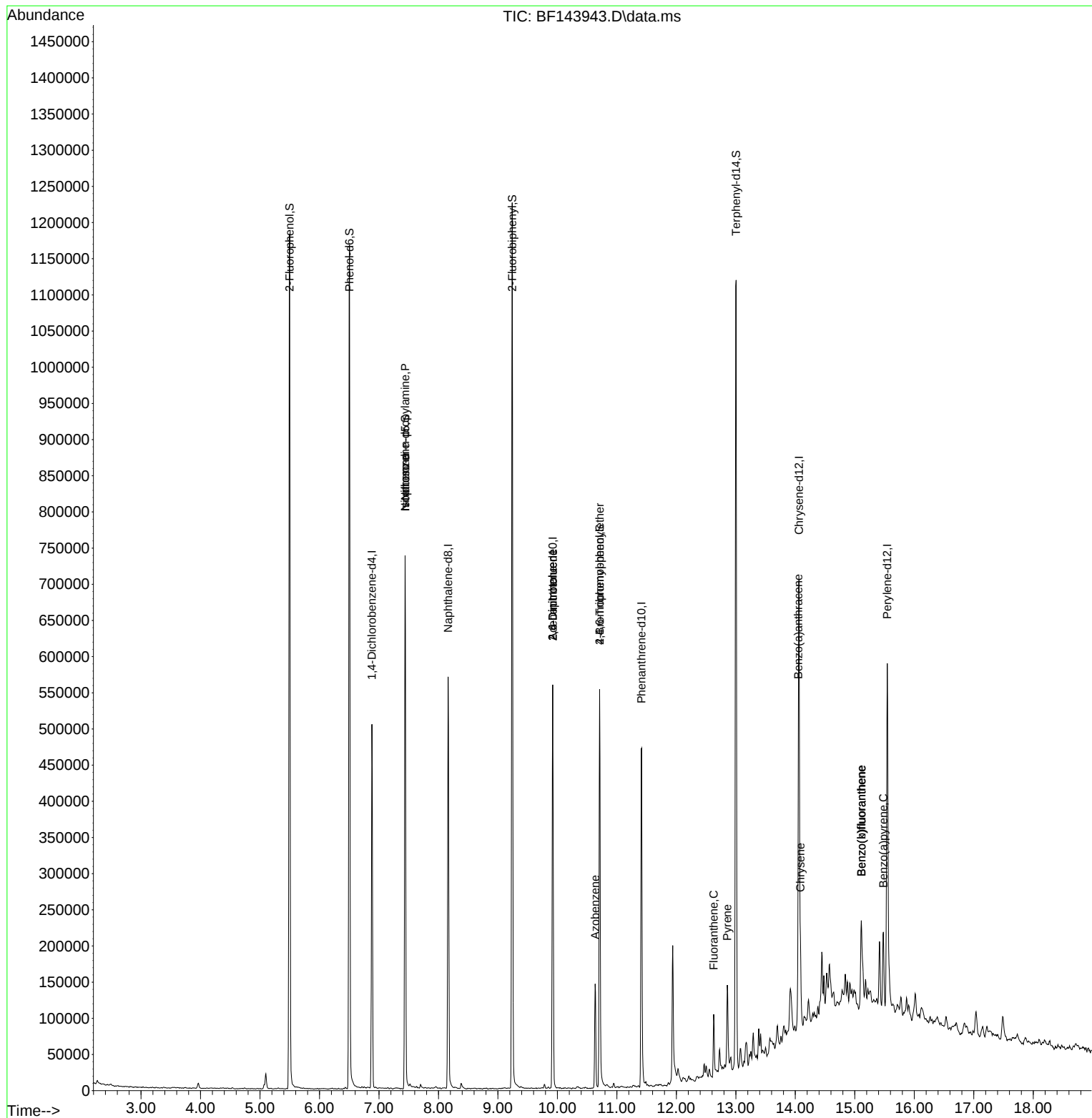
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.881  | 152  | 101221   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.163  | 136  | 360509   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 168455   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.416 | 188  | 260728   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.063 | 240  | 277151   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.545 | 264  | 299567   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 462201   | 72.512 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 525747   | 69.198 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.439  | 82   | 309466   | 52.153 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 100188   | 59.712 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.239  | 172  | 571860   | 53.866 | ng    | -0.01    |
| 79) Terphenyl-d14             | 13.004 | 244  | 572674   | 35.314 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.439  | 70   | 44139    | 8.487  | ng    | # 76     |
| 25) Isophorone                | 7.439  | 82   | 269422   | 21.533 | ng    | # 68     |
| 51) 2,6-Dinitrotoluene        | 9.922  | 165  | 20853    | 10.512 | ng    | # 26     |
| 57) 2,4-Dinitrotoluene        | 9.922  | 165  | 20853    | 7.726  | ng    | # 26     |
| 63) Azobenzene                | 10.633 | 77   | 39677    | 3.820  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.710 | 248  | 6030     | 2.093  | ng    | # 1      |
| 75) Fluoranthene              | 12.627 | 202  | 45346    | 3.473  | ng    | 97       |
| 78) Pyrene                    | 12.857 | 202  | 68502    | 2.965  | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.051 | 228  | 70729    | 3.900  | ng    | # 90     |
| 83) Chrysene                  | 14.086 | 228  | 63502    | 3.783  | ng    | # 96     |
| 88) Benzo(b)fluoranthene      | 15.110 | 252  | 98958    | 5.751  | ng    | # 97     |
| 89) Benzo(k)fluoranthene      | 15.110 | 252  | 98958    | 6.215  | ng    | # 97     |
| 90) Benzo(a)pyrene            | 15.480 | 252  | 67268    | 4.508  | ng    | # 97     |
| -----                         |        |      |          |        |       |          |

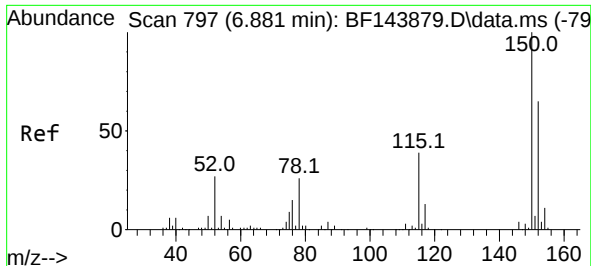
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101325\  
Data File : BF143943.D  
Acq On : 13 Oct 2025 20:25  
Operator : RC/JU  
Sample : Q3326-05  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

Quant Time: Oct 14 01:31:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF100625.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 06 15:29:47 2025  
Response via : Initial Calibration

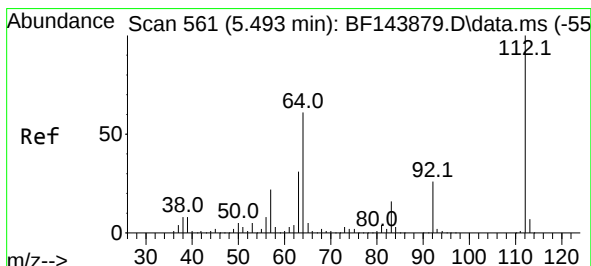
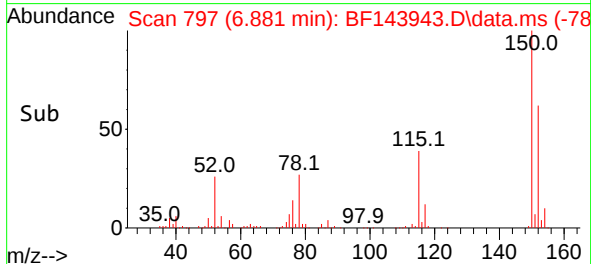
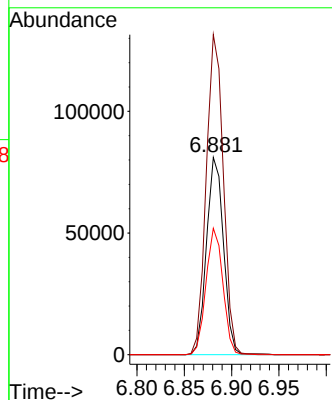
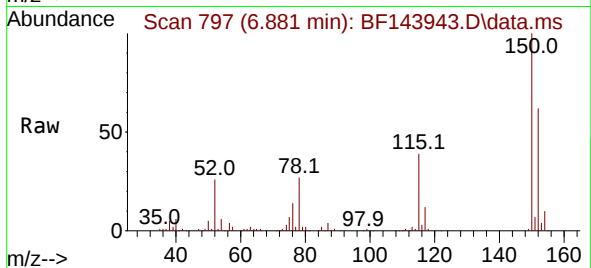




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.881 min Scan# 797  
 Delta R.T. -0.005 min  
 Lab File: BF143943.D  
 Acq: 13 Oct 2025 20:25

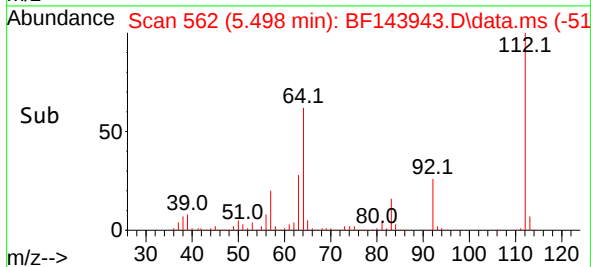
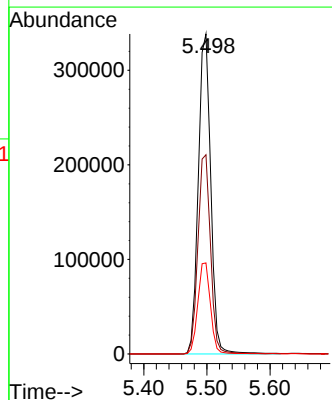
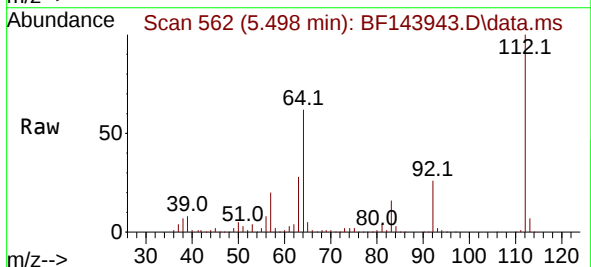
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-2

Tgt Ion:152 Resp: 101221  
 Ion Ratio Lower Upper  
 152 100  
 150 162.2 124.4 186.6  
 115 64.0 48.1 72.1



#5  
 2-Fluorophenol  
 Concen: 72.512 ng  
 RT: 5.498 min Scan# 562  
 Delta R.T. 0.000 min  
 Lab File: BF143943.D  
 Acq: 13 Oct 2025 20:25

Tgt Ion:112 Resp: 462201  
 Ion Ratio Lower Upper  
 112 100  
 64 62.2 49.1 73.7  
 63 28.4 24.5 36.7

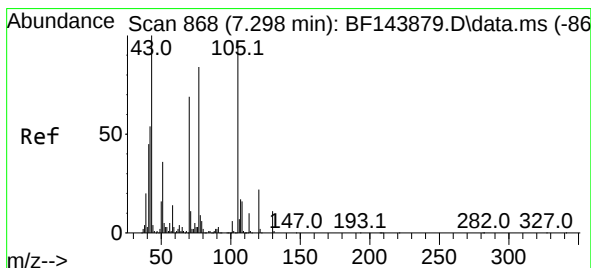
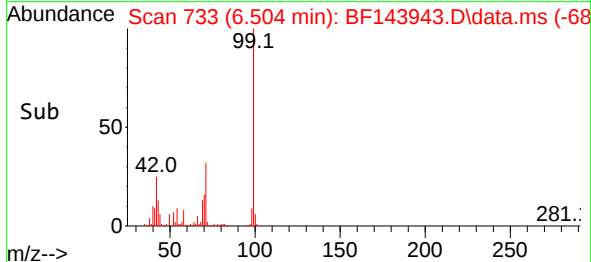
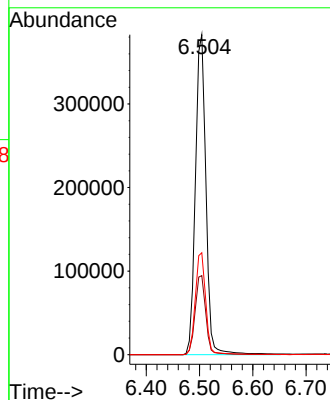
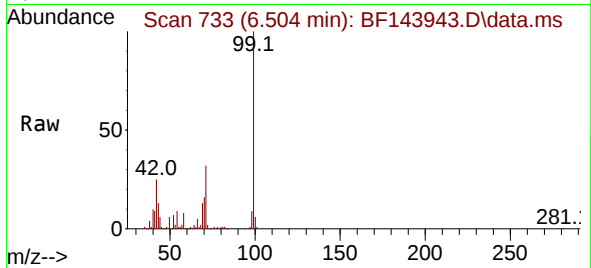




#7  
Phenol-d6  
Concen: 69.198 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

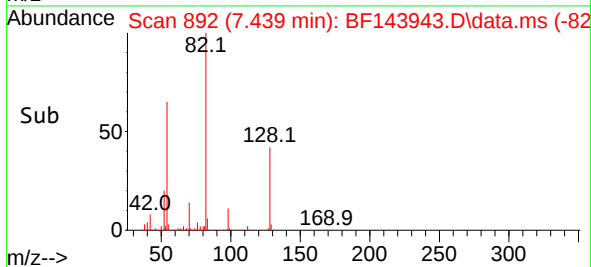
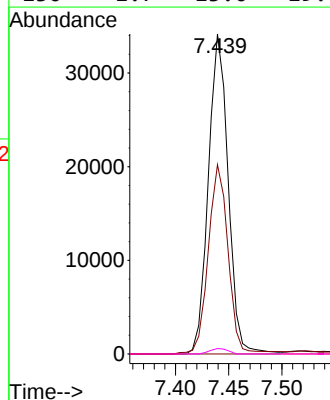
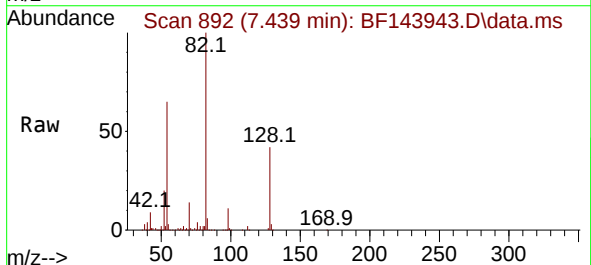
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

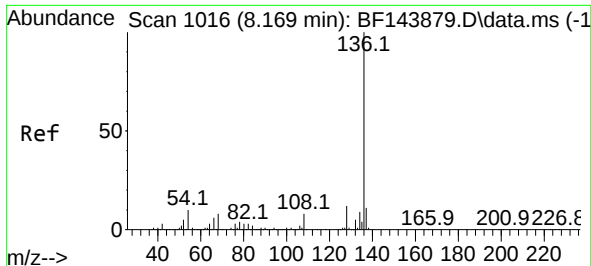
Tgt Ion: 99 Resp: 525747  
Ion Ratio Lower Upper  
99 100  
42 24.7 21.0 31.4  
71 31.9 27.8 41.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 8.487 ng  
RT: 7.439 min Scan# 892  
Delta R.T. 0.124 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

Tgt Ion: 70 Resp: 44139  
Ion Ratio Lower Upper  
70 100  
42 59.2 62.8 94.2#  
101 0.0 6.7 10.1#  
130 1.7 13.0 19.4#

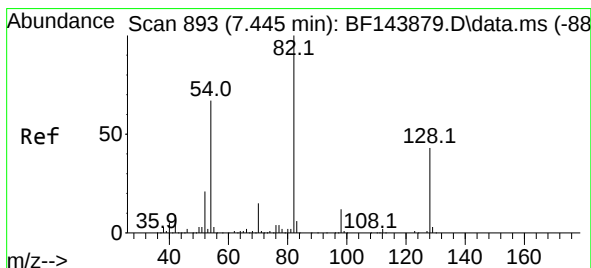
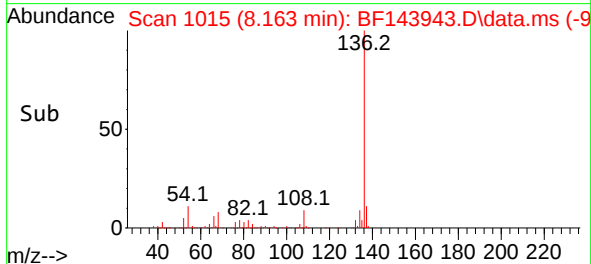
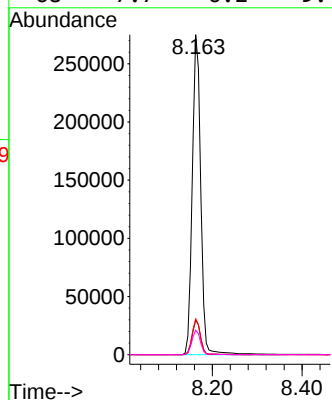
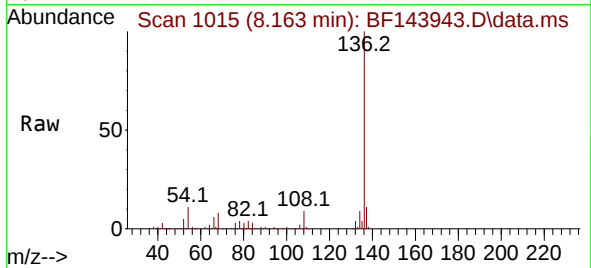




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.163 min Scan# 1016  
Delta R.T. -0.006 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

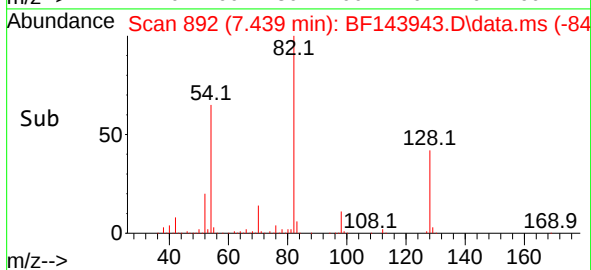
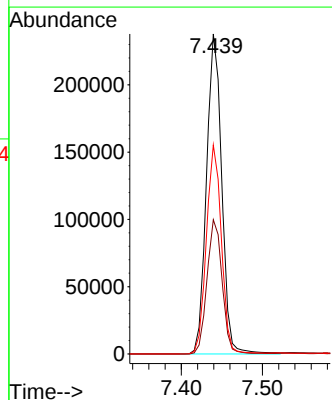
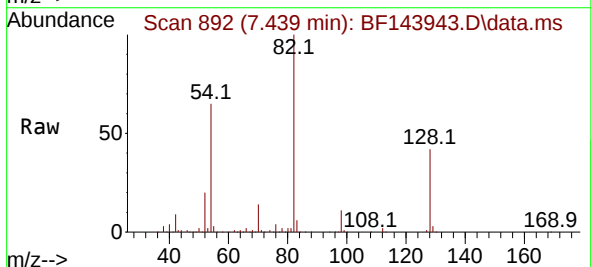
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

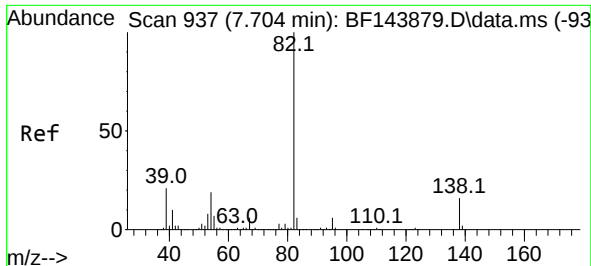
Tgt Ion:136 Resp: 360509  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.5 12.7  
54 11.2 8.2 12.4  
68 7.7 6.2 9.4



#23  
Nitrobenzene-d5  
Concen: 52.153 ng  
RT: 7.439 min Scan# 892  
Delta R.T. -0.018 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

Tgt Ion: 82 Resp: 309466  
Ion Ratio Lower Upper  
82 100  
128 42.0 34.0 51.0  
54 65.3 53.2 79.8

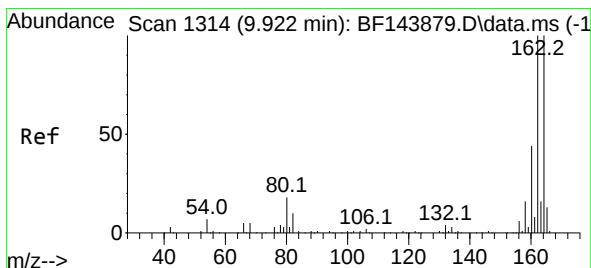
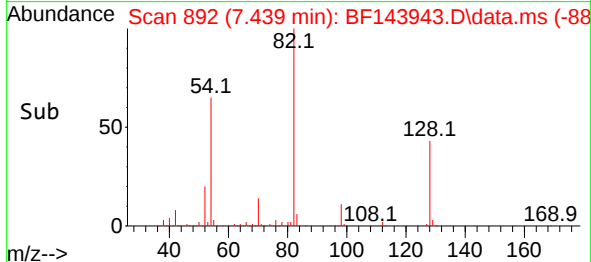
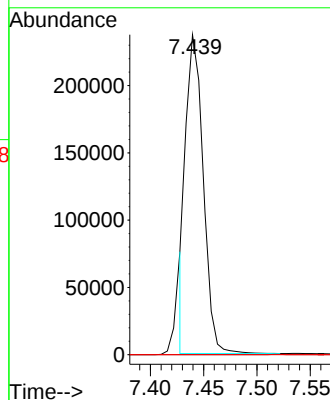
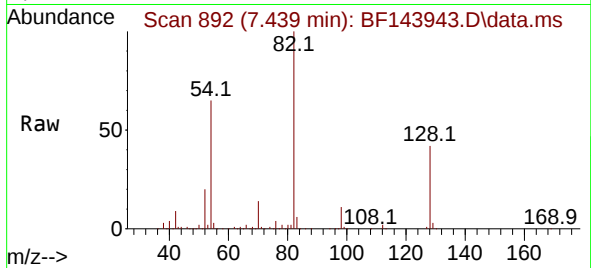




#25  
Isophorone  
Concen: 21.533 ng  
RT: 7.439 min Scan# 892  
Delta R.T. -0.282 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

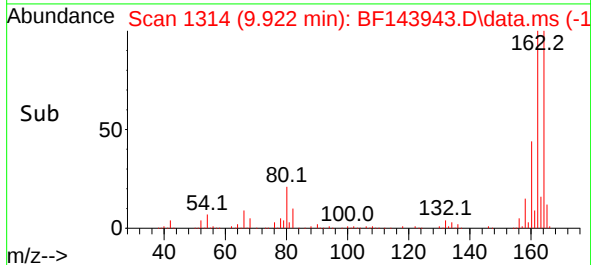
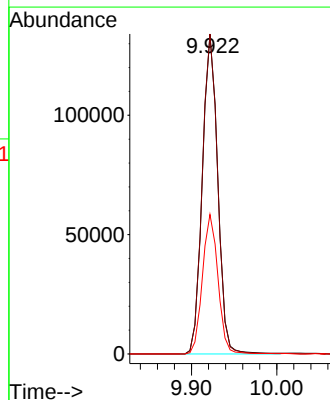
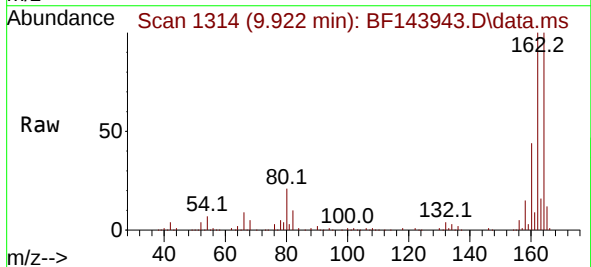
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

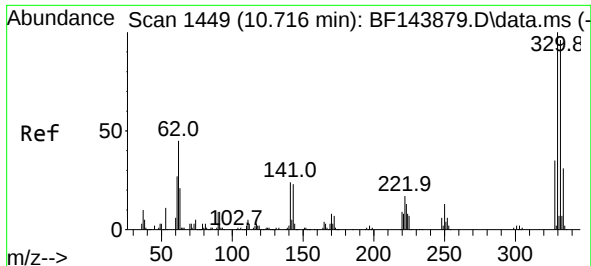
Tgt Ion: 82 Resp: 269422  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.1 7.7#  
138 0.0 12.9 19.3#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.922 min Scan# 1314  
Delta R.T. -0.005 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

Tgt Ion:164 Resp: 168455  
Ion Ratio Lower Upper  
164 100  
162 100.1 80.2 120.2  
160 43.7 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 59.712 ng

RT: 10.710 min Scan# 1449

Delta R.T. -0.012 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

Instrument :

BNA\_F

ClientSampleId :

TP-2

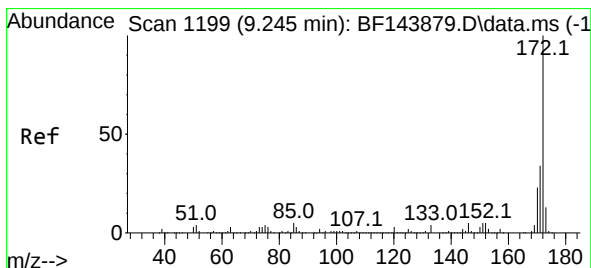
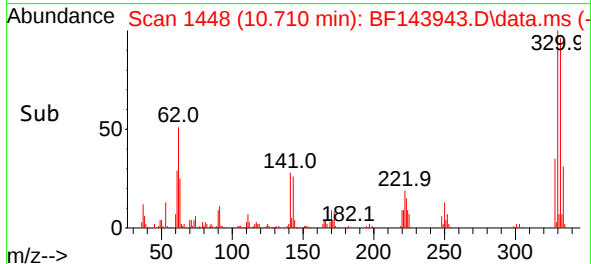
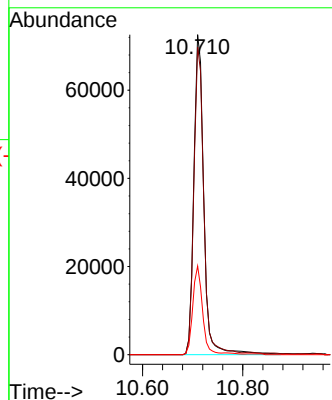
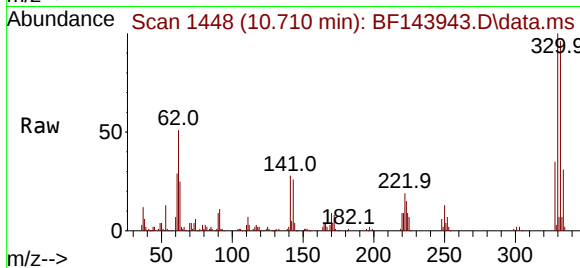
Tgt Ion:330 Resp: 100188

Ion Ratio Lower Upper

330 100

332 95.4 76.9 115.3

141 26.9 20.2 30.4



#45

2-Fluorobiphenyl

Concen: 53.866 ng

RT: 9.239 min Scan# 1198

Delta R.T. -0.012 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

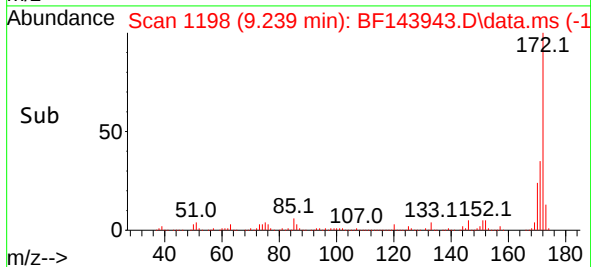
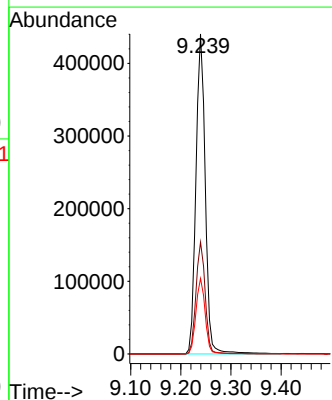
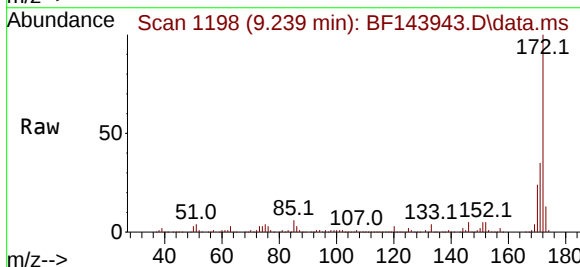
Tgt Ion:172 Resp: 571860

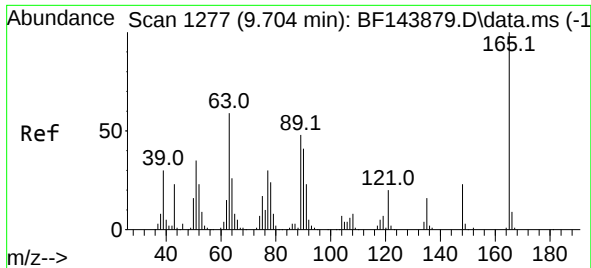
Ion Ratio Lower Upper

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171 35.0 27.4 41.0

170 23.6 18.6 28.0

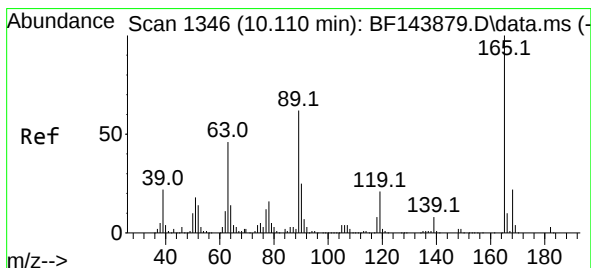
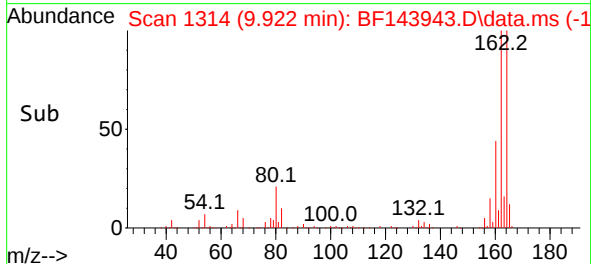
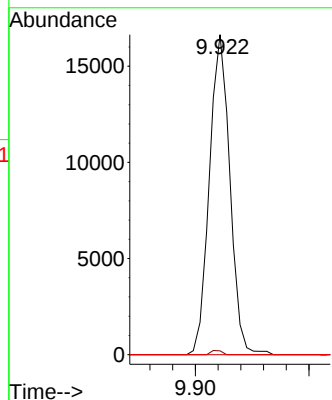
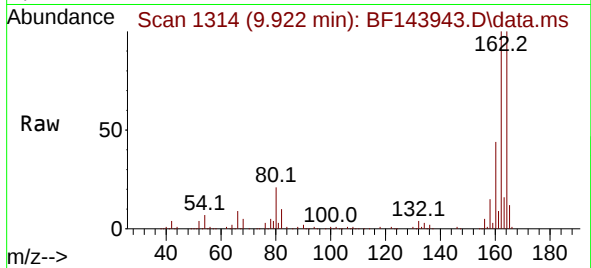




#51  
2,6-Dinitrotoluene  
Concen: 10.512 ng  
RT: 9.922 min Scan# 11  
Delta R.T. 0.206 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

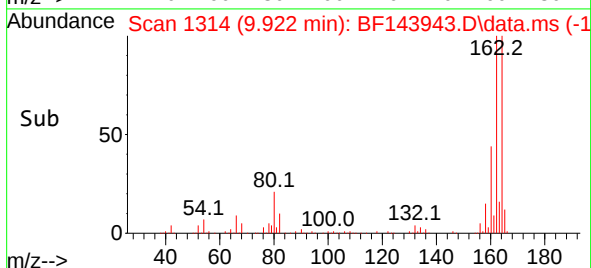
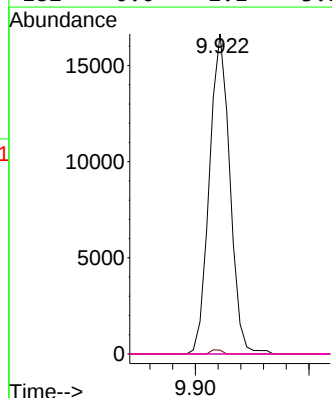
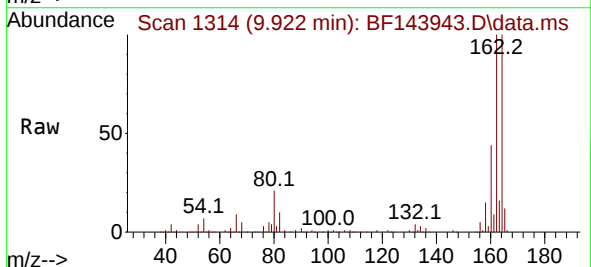
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

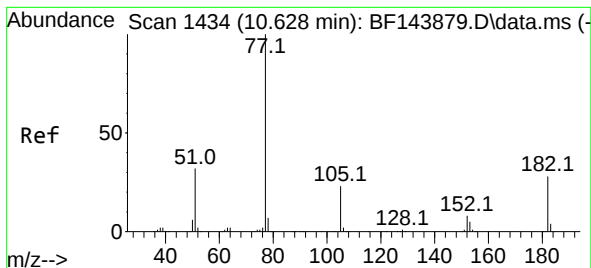
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Ion Ratio Lower Upper  
165 100  
63 1.2 47.3 70.9#  
89 0.0 38.2 57.4#



#57  
2,4-Dinitrotoluene  
Concen: 7.726 ng  
RT: 9.922 min Scan# 1314  
Delta R.T. -0.194 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

Tgt Ion:165 Resp: 20853  
Ion Ratio Lower Upper  
165 100  
63 1.2 37.2 55.8#  
89 0.0 49.4 74.2#  
182 0.0 2.1 3.1#





#63

Azobenzene

Concen: 3.820 ng

RT: 10.633 min Scan# 14

Delta R.T. 0.000 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

Instrument :

BNA\_F

ClientSampleId :

TP-2

Tgt Ion: 77 Resp: 39677

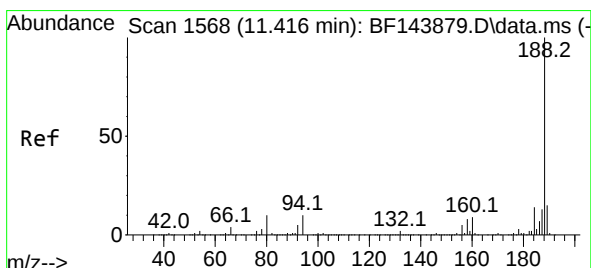
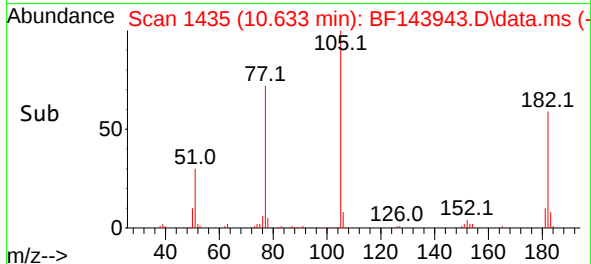
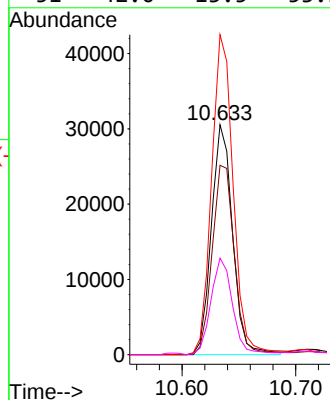
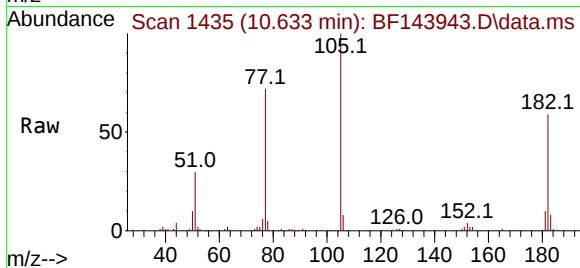
Ion Ratio Lower Upper

77 100

182 82.4 7.3 47.3#

105 139.2 3.0 43.0#

51 42.0 13.5 53.5



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

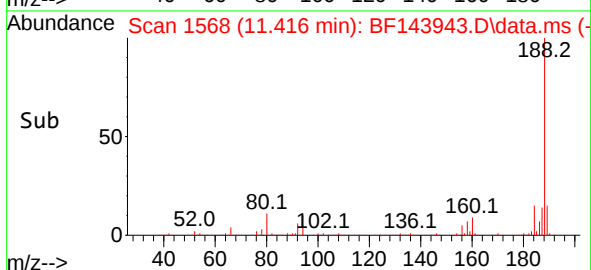
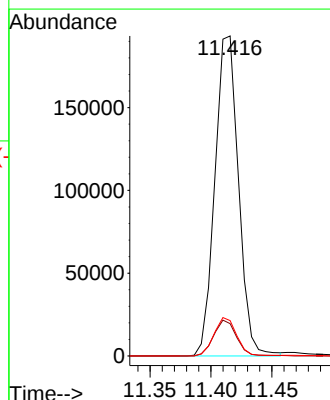
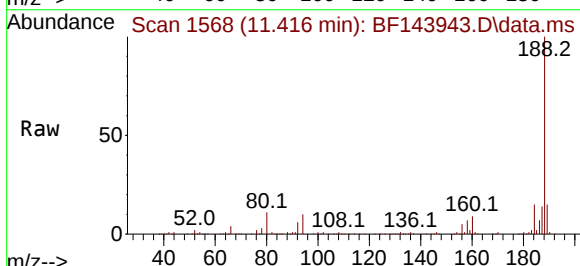
Tgt Ion:188 Resp: 260728

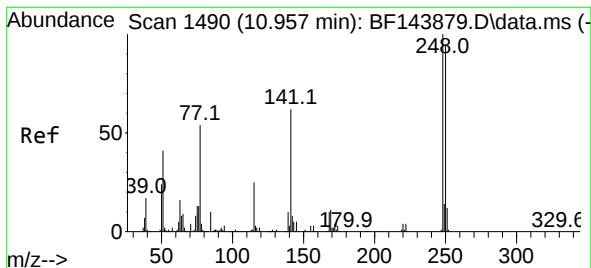
Ion Ratio Lower Upper

188 100

94 10.1 7.8 11.6

80 11.0 7.9 11.9

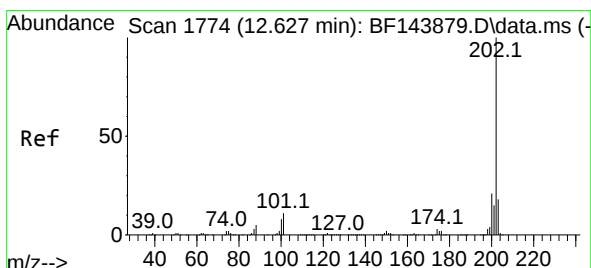
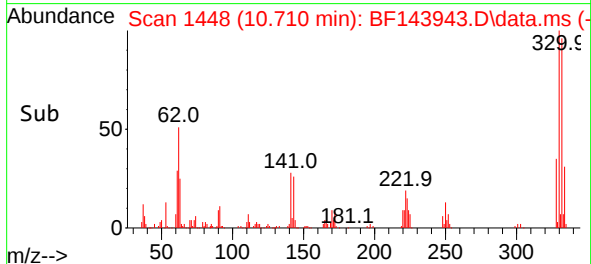
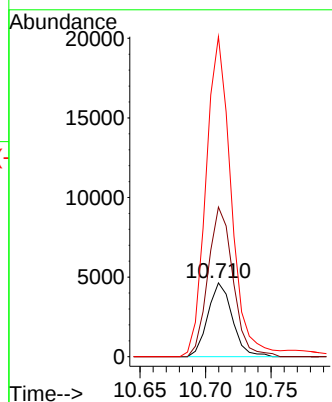
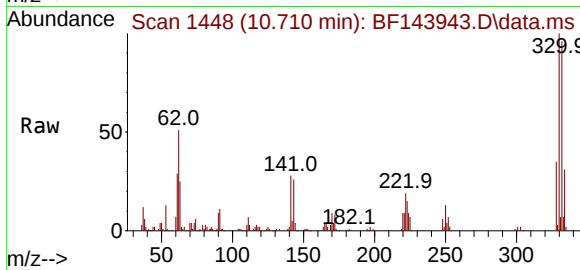




#67  
4-Bromophenyl-phenylether  
Concen: 2.093 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. -0.253 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

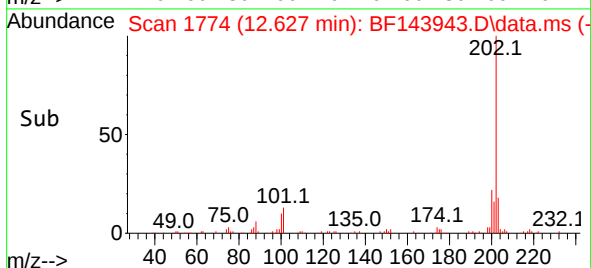
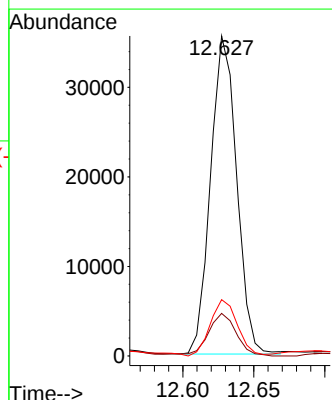
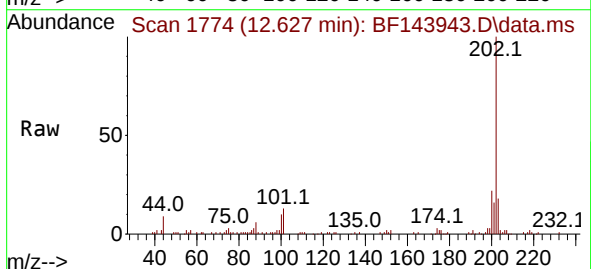
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

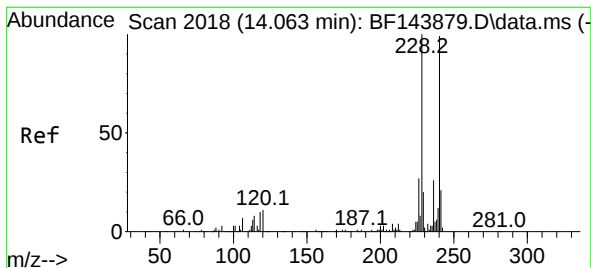
Tgt Ion:248 Resp: 6030  
Ion Ratio Lower Upper  
248 100  
250 202.5 76.3 114.5#  
141 433.5 49.7 74.5#



#75  
Fluoranthene  
Concen: 3.473 ng  
RT: 12.627 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

Tgt Ion:202 Resp: 45346  
Ion Ratio Lower Upper  
202 100  
101 13.3 0.0 30.7  
203 17.6 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 20

Delta R.T. -0.005 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

Instrument :

BNA\_F

ClientSampleId :

TP-2

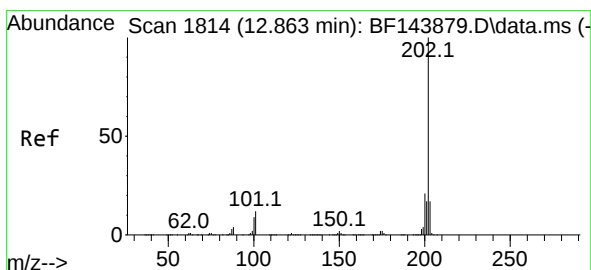
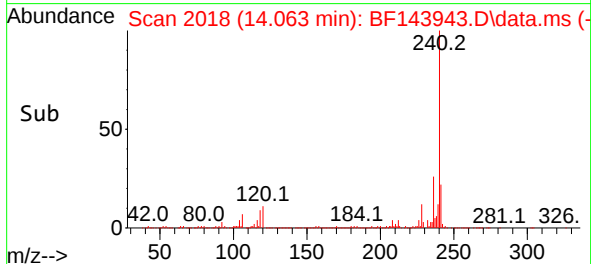
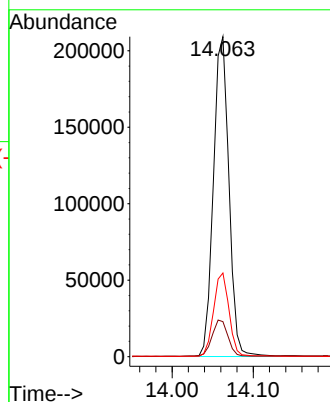
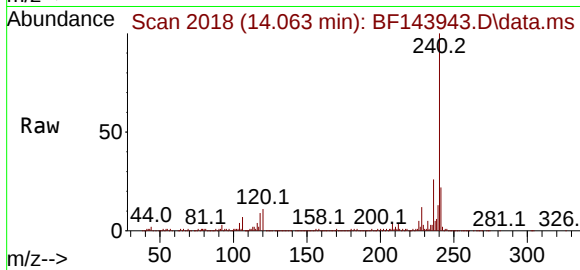
Tgt Ion:240 Resp: 277151

Ion Ratio Lower Upper

240 100

120 10.9 8.6 13.0

236 26.1 21.1 31.7



#78

Pyrene

Concen: 2.965 ng

RT: 12.857 min Scan# 1813

Delta R.T. -0.006 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

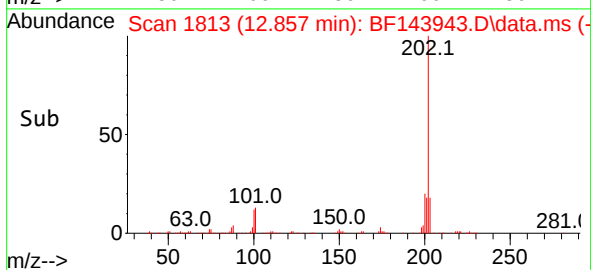
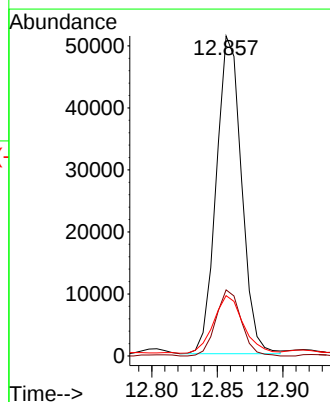
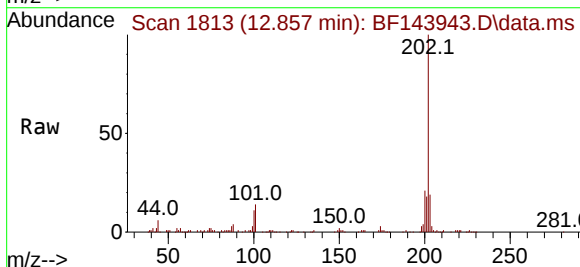
Tgt Ion:202 Resp: 68502

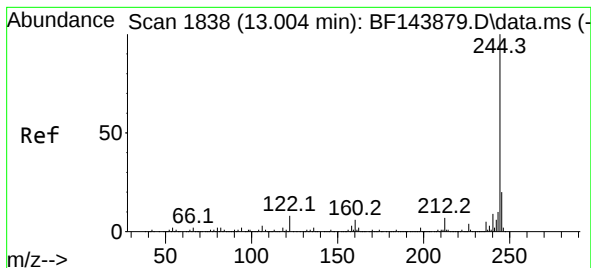
Ion Ratio Lower Upper

202 100

200 20.7 17.0 25.6

203 18.8 13.8 20.6





#79

Terphenyl-d14

Concen: 35.314 ng

RT: 13.004 min Scan# 1838

Delta R.T. -0.006 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

Instrument :

BNA\_F

ClientSampleId :

TP-2

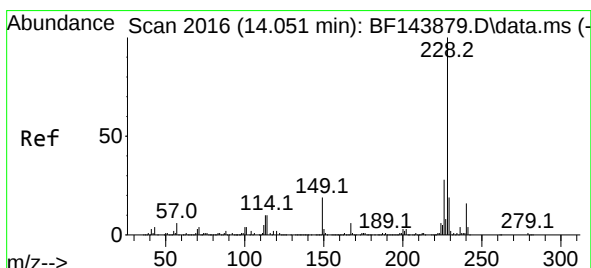
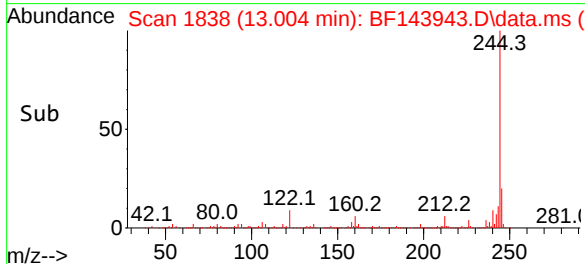
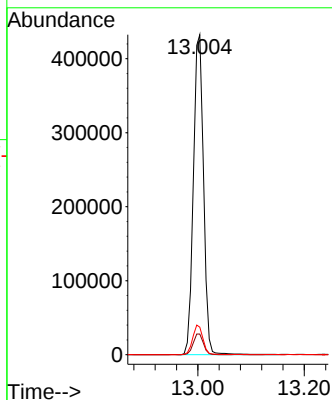
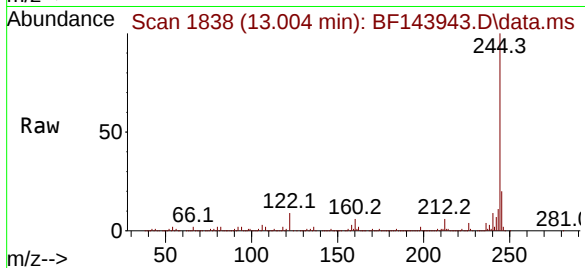
Tgt Ion:244 Resp: 572674

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

122 8.6 6.4 9.6



#81

Benzo(a)anthracene

Concen: 3.900 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

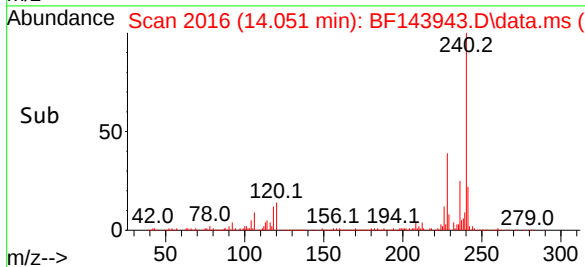
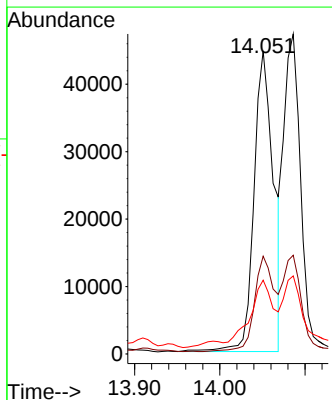
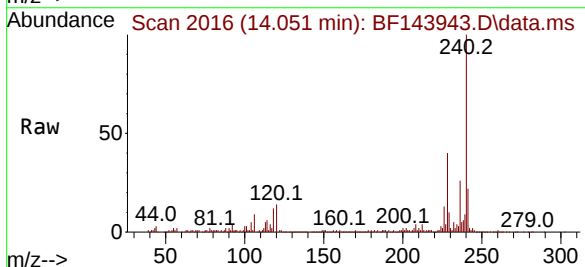
Tgt Ion:228 Resp: 70729

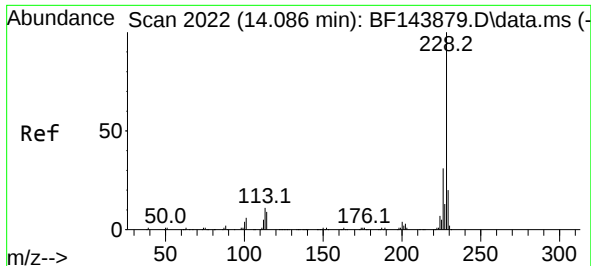
Ion Ratio Lower Upper

228 100

226 32.3 22.2 33.2

229 24.3 15.6 23.4#

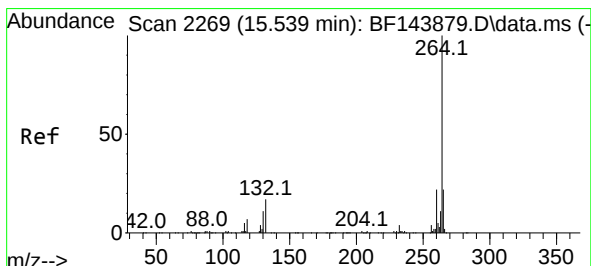
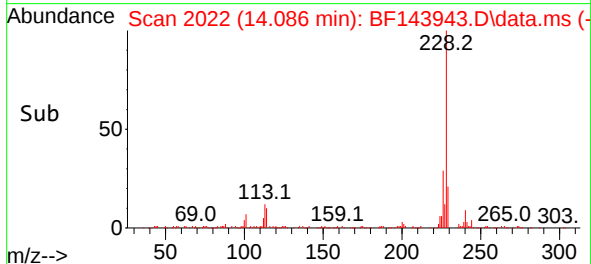
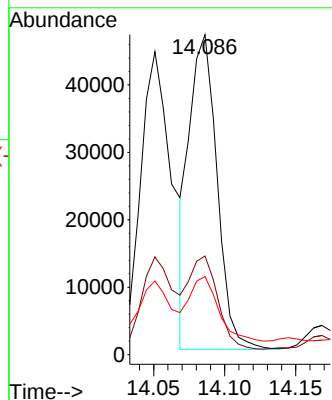
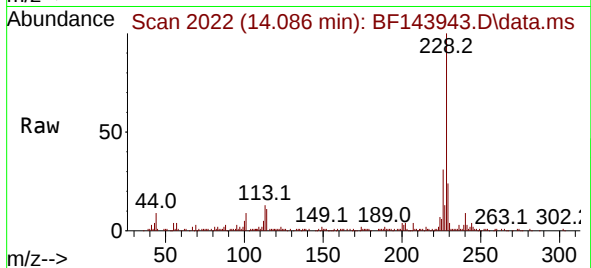




#83  
Chrysene  
Concen: 3.783 ng  
RT: 14.086 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

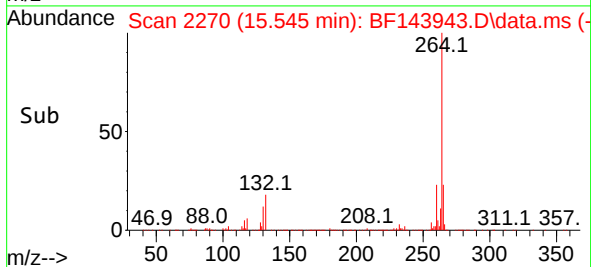
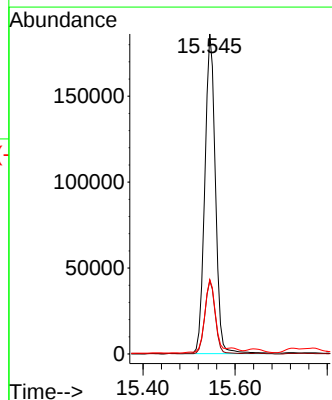
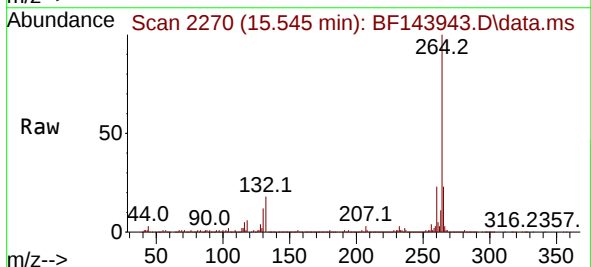
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

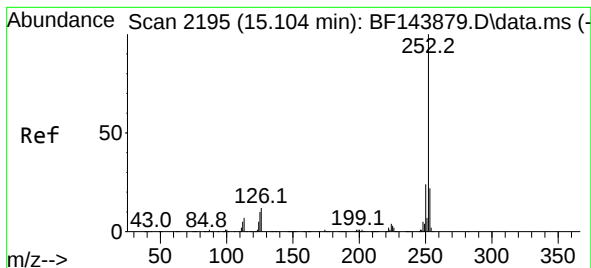
Tgt Ion:228 Resp: 63502  
Ion Ratio Lower Upper  
228 100  
226 30.8 24.4 36.6  
229 24.4 15.9 23.9#



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.545 min Scan# 2270  
Delta R.T. 0.000 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

Tgt Ion:264 Resp: 299567  
Ion Ratio Lower Upper  
264 100  
260 22.9 17.8 26.8  
265 23.3 17.5 26.3





#88

Benzo(b)fluoranthene

Concen: 5.751 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

Instrument :

BNA\_F

ClientSampleId :

TP-2

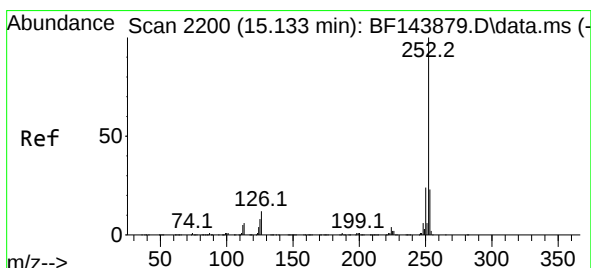
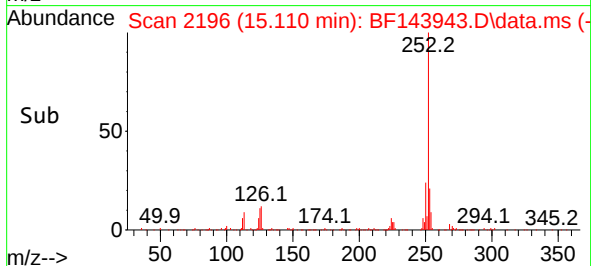
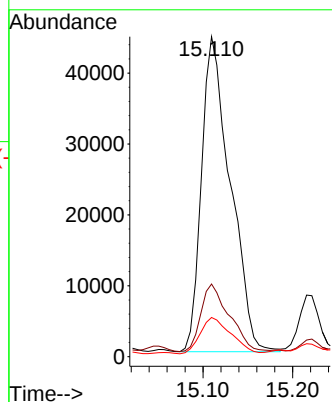
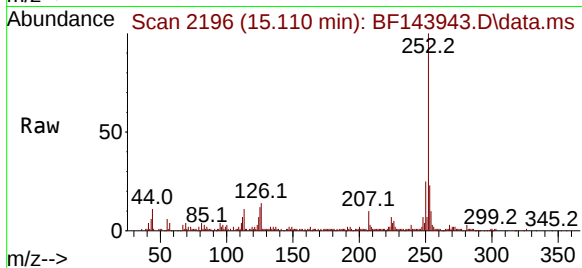
Tgt Ion:252 Resp: 98958

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.2

125 12.3 7.8 11.6#



#89

Benzo(k)fluoranthene

Concen: 6.215 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.035 min

Lab File: BF143943.D

Acq: 13 Oct 2025 20:25

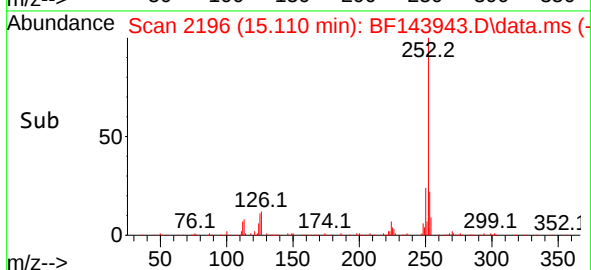
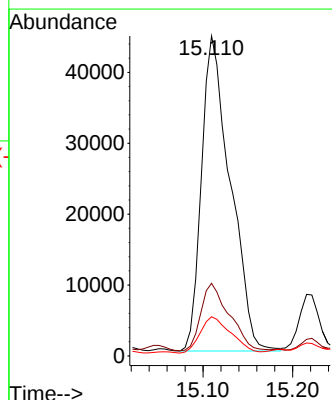
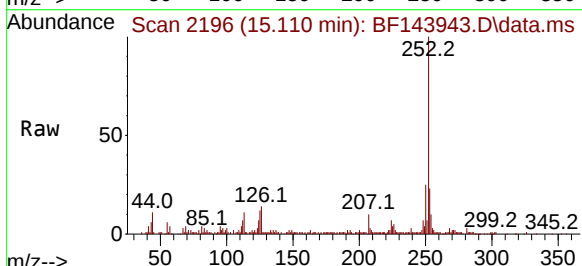
Tgt Ion:252 Resp: 98958

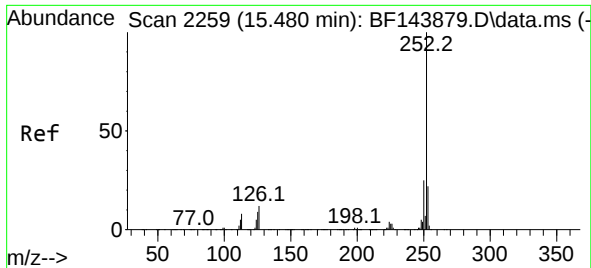
Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.8

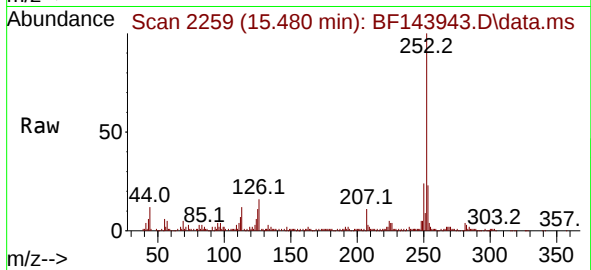
125 12.3 7.4 11.2#





#90  
Benzo(a)pyrene  
Concen: 4.508 ng  
RT: 15.480 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF143943.D  
Acq: 13 Oct 2025 20:25

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2



Tgt Ion:252 Resp: 67268  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.3 25.9  
125 10.8 7.0 10.4#

