

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF062725\  
 Data File : BF142892.D  
 Acq On : 27 Jun 2025 14:47  
 Operator : RC/JU  
 Sample : Q2413-02  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

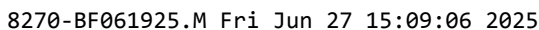
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-34

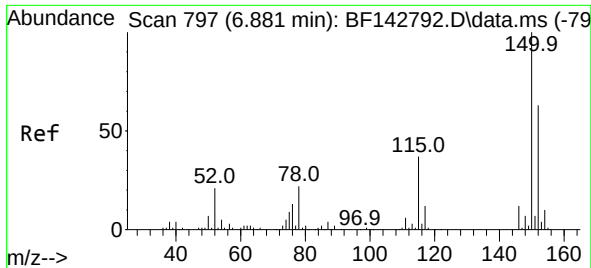
Quant Time: Jun 27 15:08:03 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 24 05:28:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.875  | 152  | 74176    | 20.000 | ng     | 0.00     |
| 21) Naphthalene-d8            | 8.157  | 136  | 267947   | 20.000 | ng     | -0.01    |
| 39) Acenaphthene-d10          | 9.916  | 164  | 125086   | 20.000 | ng     | 0.00     |
| 64) Phenanthrene-d10          | 11.404 | 188  | 186159   | 20.000 | ng     | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 169043   | 20.000 | ng     | 0.00     |
| 86) Perylene-d12              | 15.545 | 264  | 135290   | 20.000 | ng     | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 362975   | 81.472 | ng     | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 431008   | 81.999 | ng     | 0.00     |
| 23) Nitrobenzene-d5           | 7.439  | 82   | 260620   | 53.351 | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.710 | 330  | 99032    | 76.935 | ng     | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.233  | 172  | 532562   | 55.930 | ng     | -0.01    |
| 79) Terphenyl-d14             | 12.992 | 244  | 442381   | 36.159 | ng     | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 19) n-Nitroso-di-n-propyla... | 7.439  | 70   | 35185    | 11.509 | ng     | # 75     |
| 25) Isophorone                | 7.439  | 82   | 260617   | 33.258 | ng     | # 62     |
| 51) 2,6-Dinitrotoluene        | 9.916  | 165  | 15788    | 8.879  | ng     | # 26     |
| 57) 2,4-Dinitrotoluene        | 9.916  | 165  | 15788    | 6.684  | ng     | # 27     |
| 63) Azobenzene                | 10.627 | 77   | 35167    | 4.956  | ng     | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.710 | 248  | 6461     | 3.050  | ng     | # 1      |
| 75) Fluoranthene              | 12.621 | 202  | 33338    | 3.483  | ng     | 99       |
| 78) Pyrene                    | 12.851 | 202  | 33041    | 2.085  | ng     | 99       |
| 81) Benzo(a)anthracene        | 14.074 | 228  | 23444    | 2.056  | ng     | 94       |
| 83) Chrysene                  | 14.074 | 228  | 23444    | 2.304  | ng     | 97       |
| 88) Benzo(b)fluoranthene      | 15.110 | 252  | 54879    | 7.010  | ng     | # 98     |
| 89) Benzo(k)fluoranthene      | 15.110 | 252  | 54879    | 7.493  | ng     | # 97     |
| 90) Benzo(a)pyrene            | 15.480 | 252  | 24857    | 3.287  | ng     | 99       |
| -----                         |        |      |          |        |        |          |

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

Quant Time: Jun 27 15:08:03 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 24 05:28:21 2025  
Response via : Initial Calibration

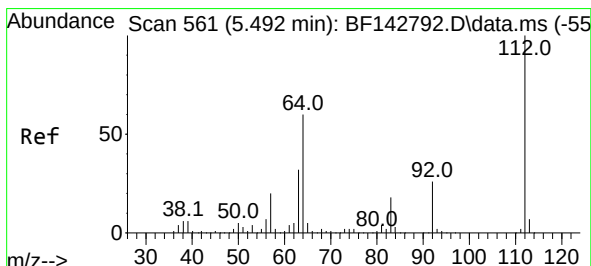
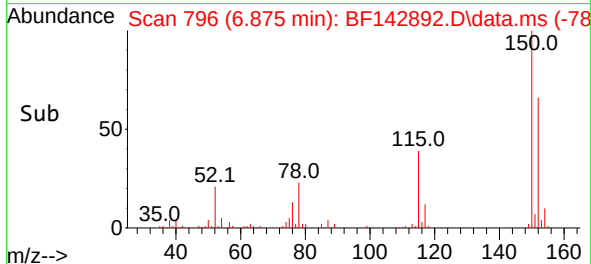
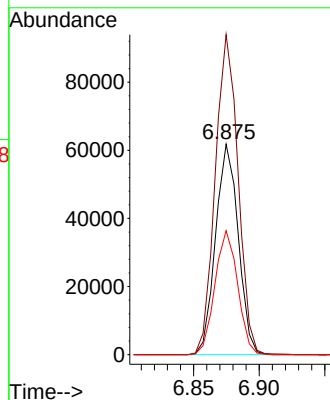
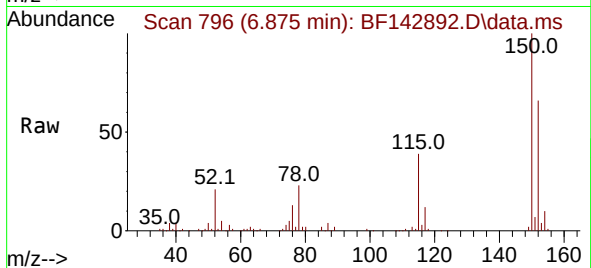




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 797  
Delta R.T. -0.006 min  
Lab File: BF142892.D  
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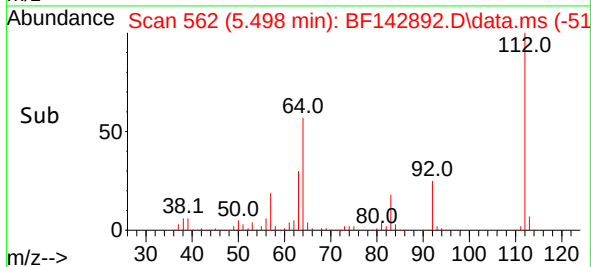
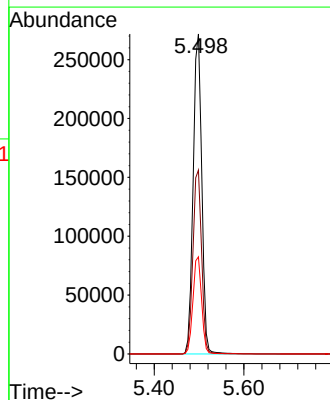
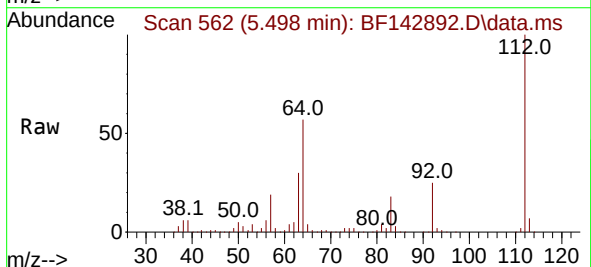
Instrument :  
BNA\_F  
ClientSampleId :  
TP-34

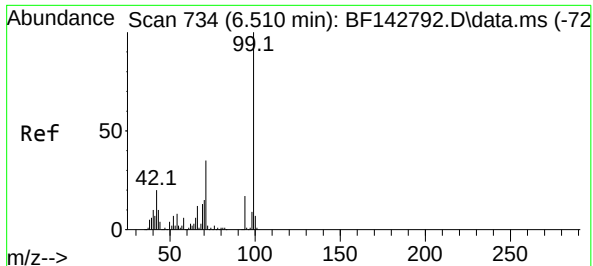
Tgt Ion:152 Resp: 74176  
Ion Ratio Lower Upper  
152 100  
150 152.1 127.2 190.8  
115 58.9 46.6 69.8



#5  
2-Fluorophenol  
Concen: 81.472 ng  
RT: 5.498 min Scan# 562  
Delta R.T. 0.006 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

Tgt Ion:112 Resp: 362975  
Ion Ratio Lower Upper  
112 100  
64 57.5 48.2 72.2  
63 30.4 25.7 38.5

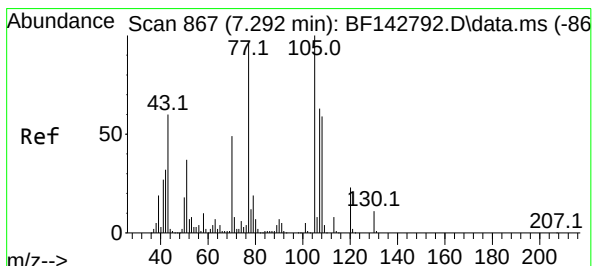
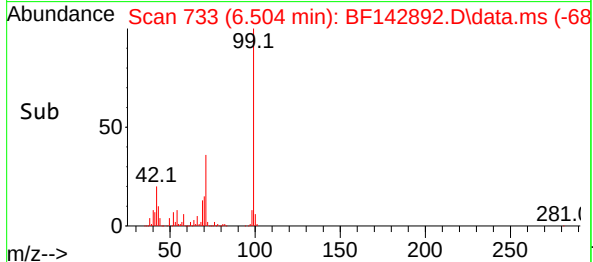
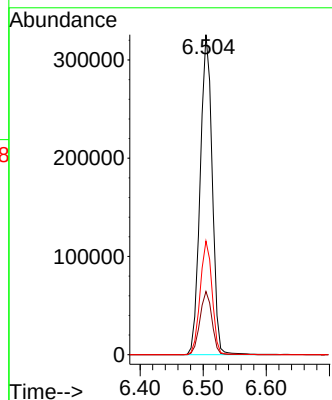
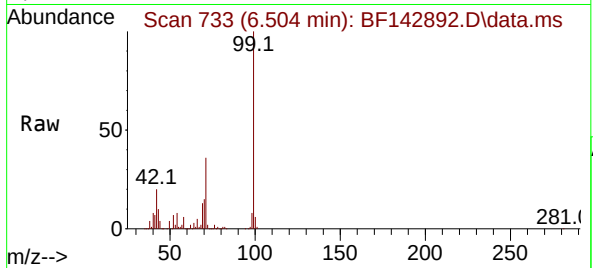




#7  
Phenol-d6  
Concen: 81.999 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

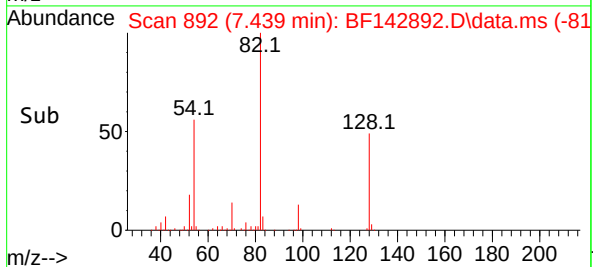
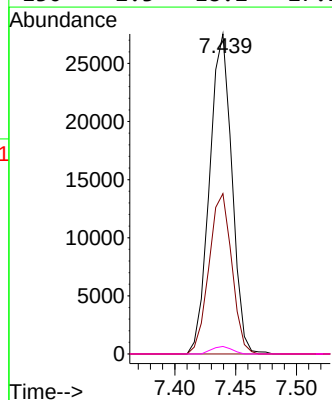
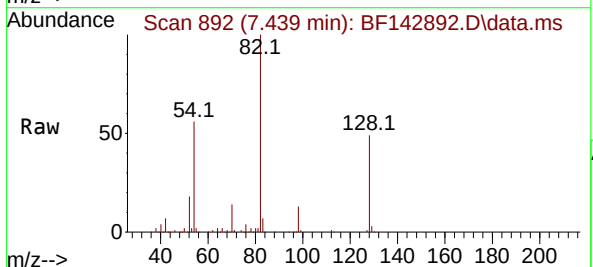
Instrument :  
BNA\_F  
ClientSampleId :  
TP-34

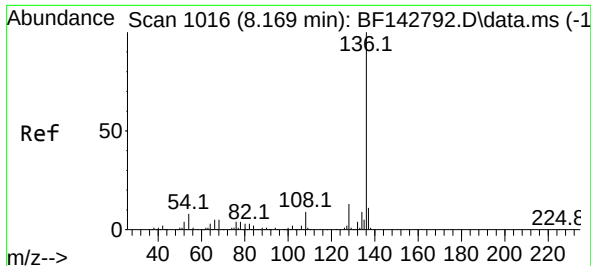
Tgt Ion: 99 Resp: 431008  
Ion Ratio Lower Upper  
99 100  
42 19.7 15.9 23.9  
71 35.5 27.8 41.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 11.509 ng  
RT: 7.439 min Scan# 892  
Delta R.T. 0.147 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

Tgt Ion: 70 Resp: 35185  
Ion Ratio Lower Upper  
70 100  
42 50.1 52.1 78.1#  
101 0.0 8.2 12.2#  
130 2.3 18.2 27.2#



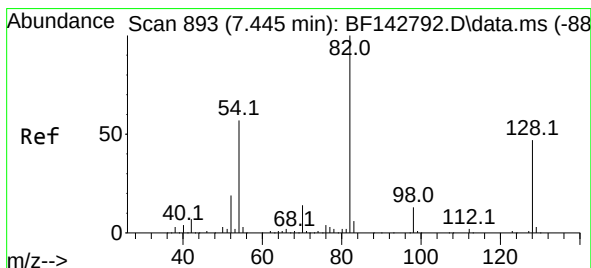
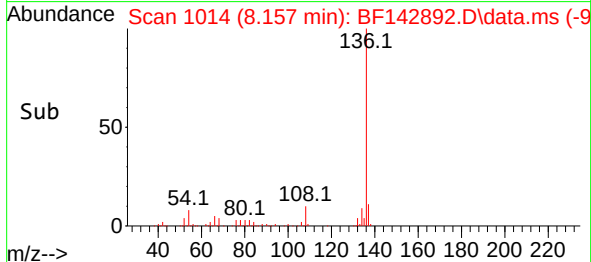
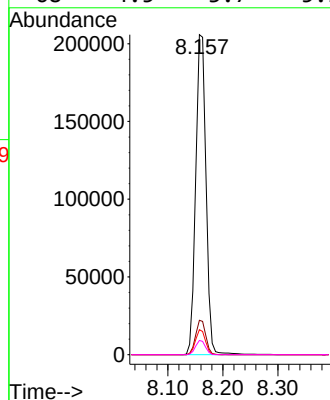
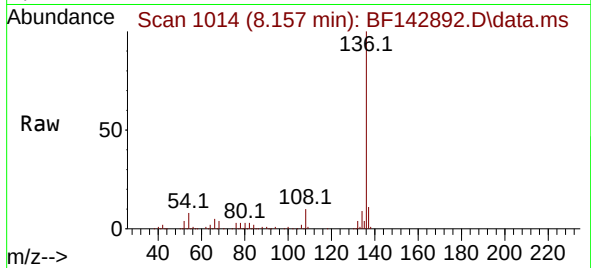


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.157 min Scan# 1014  
Delta R.T. -0.012 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

Instrument :  
BNA\_F  
ClientSampleId :  
TP-34

Tgt Ion:136 Resp: 267947

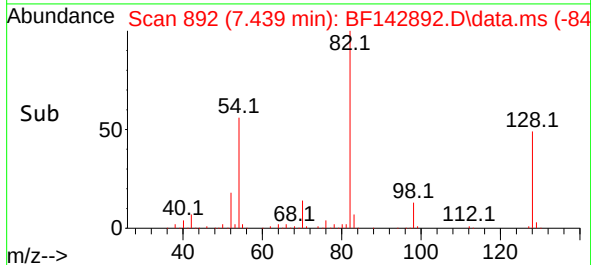
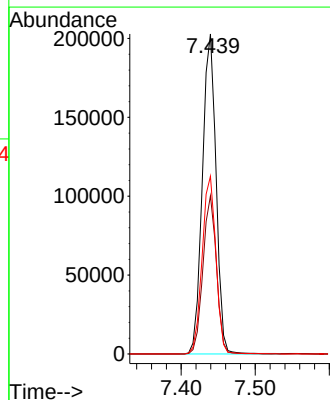
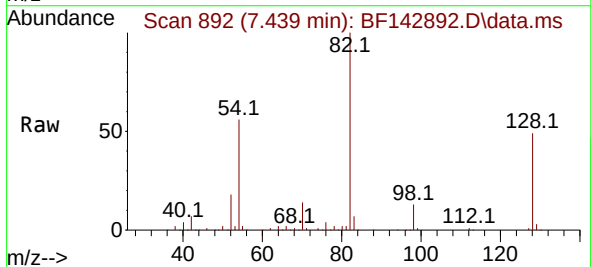
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.7  | 8.4   | 12.6  |
| 54  | 7.8   | 6.3   | 9.5   |
| 68  | 4.5   | 3.7   | 5.5   |

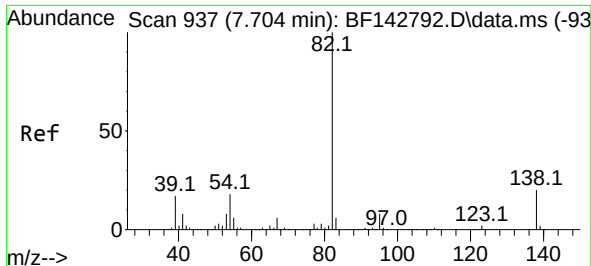


#23  
Nitrobenzene-d5  
Concen: 53.351 ng  
RT: 7.439 min Scan# 892  
Delta R.T. -0.006 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

Tgt Ion: 82 Resp: 260620

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 49.4  | 37.7  | 56.5  |
| 54  | 55.6  | 45.7  | 68.5  |

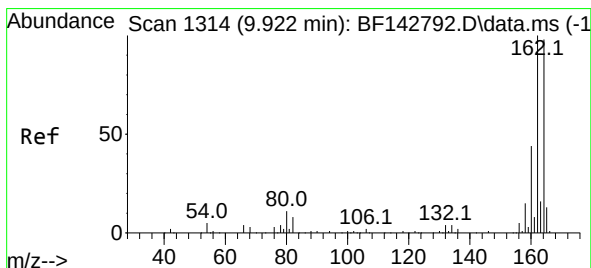
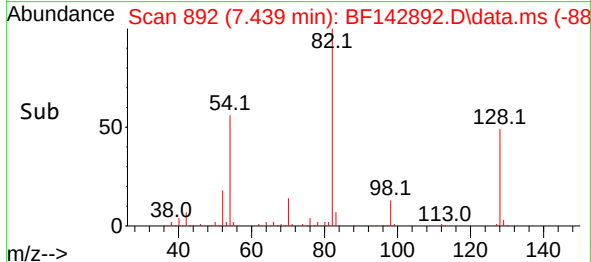
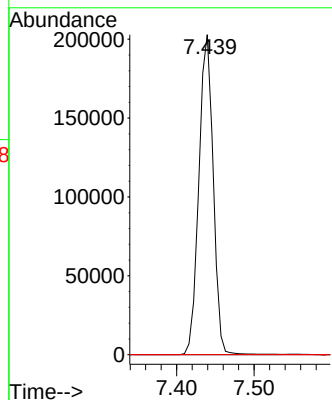
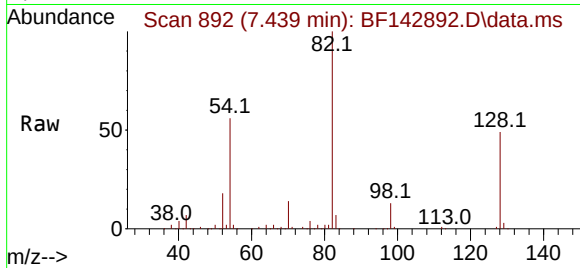




#25  
Isophorone  
Concen: 33.258 ng  
RT: 7.439 min Scan# 89  
Delta R.T. -0.265 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

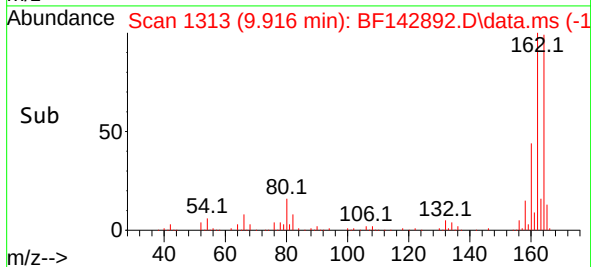
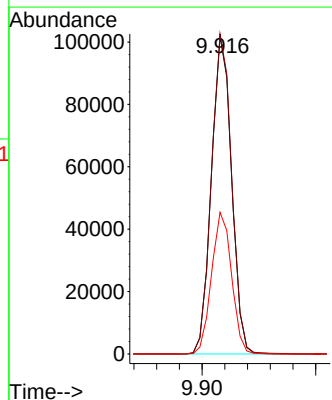
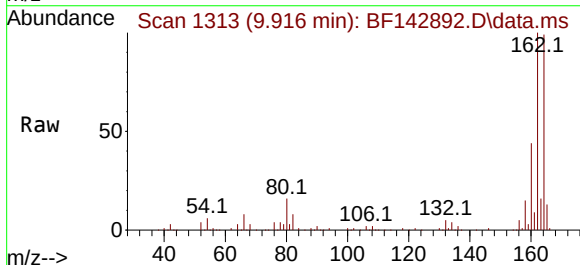
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ClientSampleId :  
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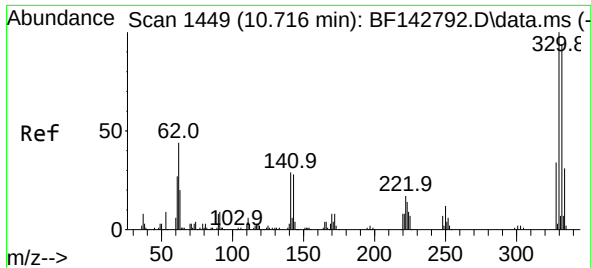
Tgt Ion: 82 Resp: 260617  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.2 9.2#  
138 0.0 16.2 24.4#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.916 min Scan# 1313  
Delta R.T. -0.006 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

Tgt Ion:164 Resp: 125086  
Ion Ratio Lower Upper  
164 100  
162 100.8 81.8 122.8  
160 44.6 36.0 54.0

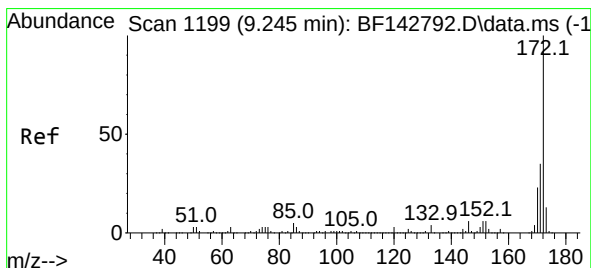
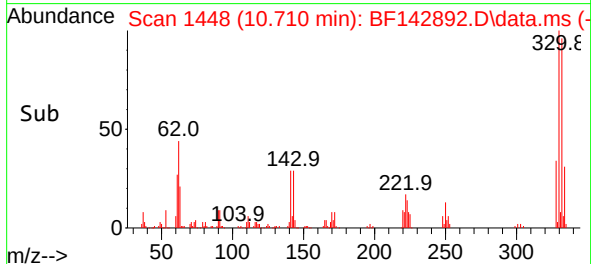
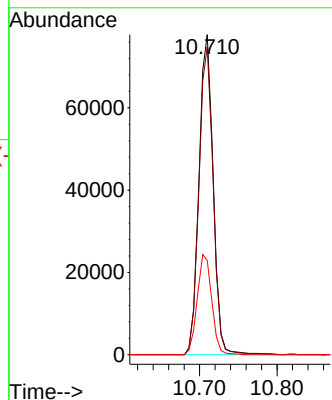
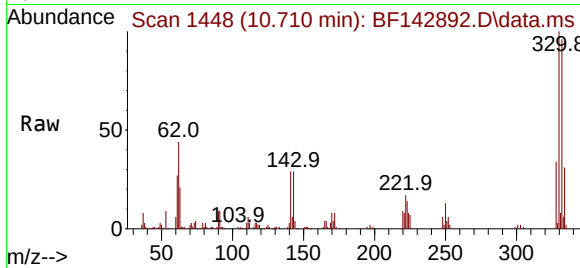




#42  
2,4,6-Tribromophenol  
Concen: 76.935 ng  
RT: 10.710 min Scan# 1448  
Delta R.T. -0.006 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

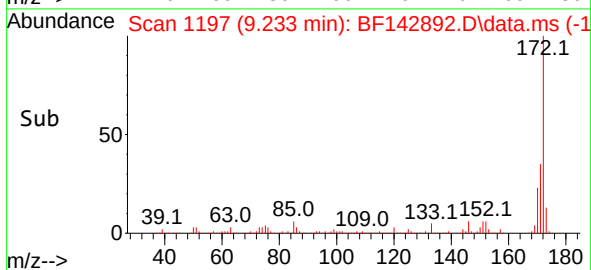
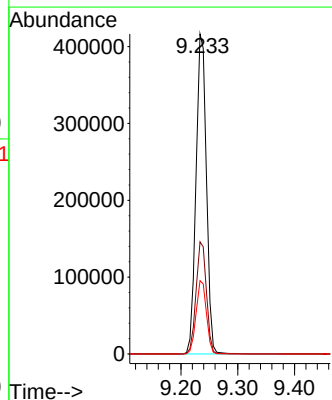
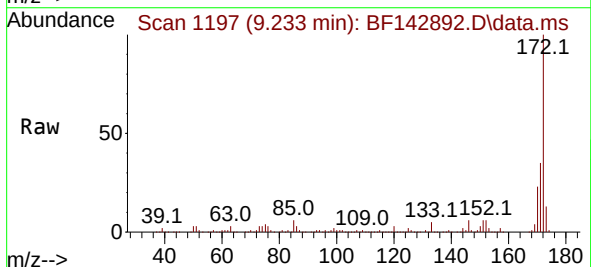
Instrument :  
BNA\_F  
ClientSampleId :  
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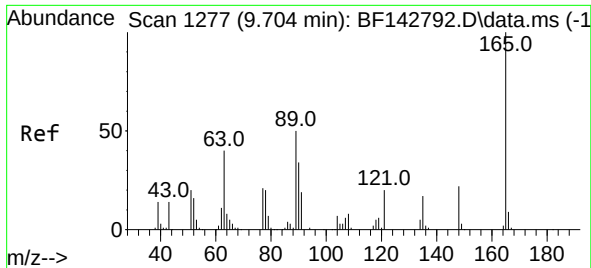
Tgt Ion:330 Resp: 99032  
Ion Ratio Lower Upper  
330 100  
332 96.3 75.0 112.6  
141 31.9 25.3 37.9



#45  
2-Fluorobiphenyl  
Concen: 55.930 ng  
RT: 9.233 min Scan# 1197  
Delta R.T. -0.012 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

Tgt Ion:172 Resp: 532562  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.2 42.4  
170 22.9 18.5 27.7





#51

2,6-Dinitrotoluene

Concen: 8.879 ng

RT: 9.916 min Scan# 11

Delta R.T. 0.212 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

Instrument :

BNA\_F

ClientSampleId :

TP-34

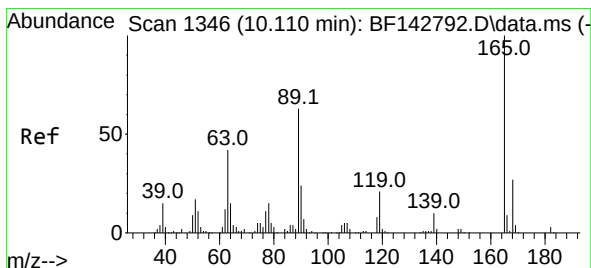
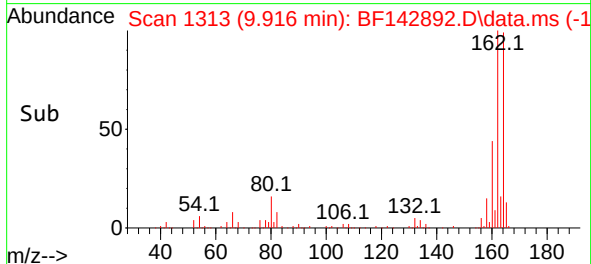
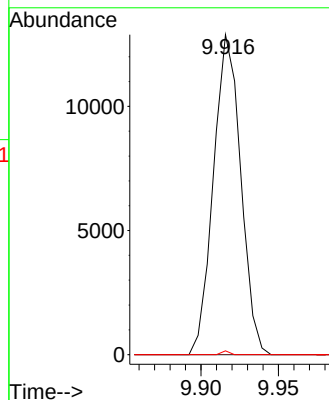
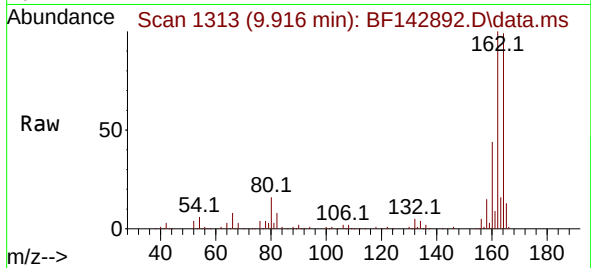
Tgt Ion:165 Resp: 15788

Ion Ratio Lower Upper

165 100

63 0.0 44.2 66.4#

89 1.2 39.8 59.8#



#57

2,4-Dinitrotoluene

Concen: 6.684 ng

RT: 9.916 min Scan# 1313

Delta R.T. -0.194 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

Tgt Ion:165 Resp: 15788

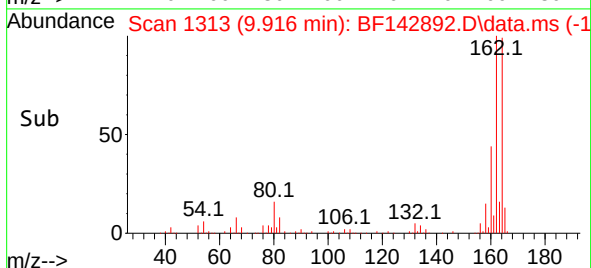
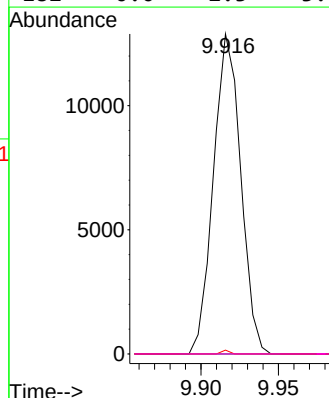
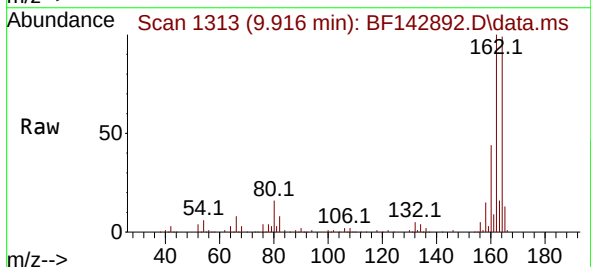
Ion Ratio Lower Upper

165 100

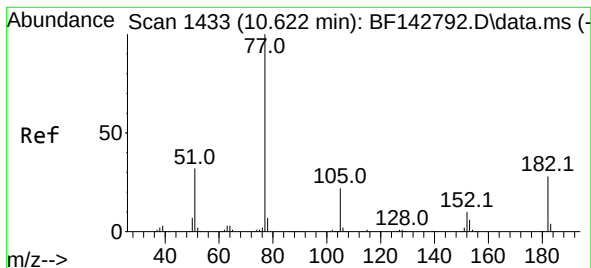
63 0.0 33.9 50.9#

89 1.2 50.6 75.8#

182 0.0 2.3 3.5#







#63

Azobenzene

Concen: 4.956 ng

RT: 10.627 min Scan# 1433

Delta R.T. 0.006 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

Instrument :

BNA\_F

ClientSampleId :

TP-34

Tgt Ion: 77 Resp: 35167

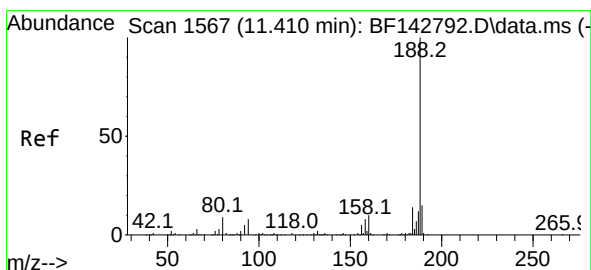
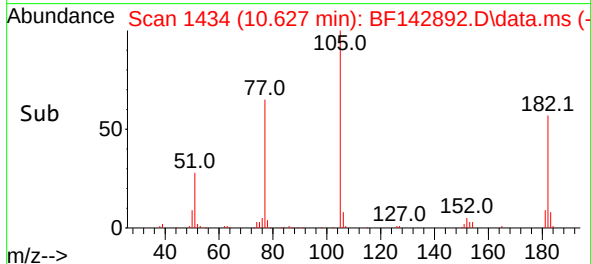
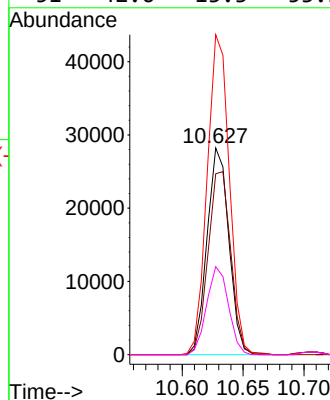
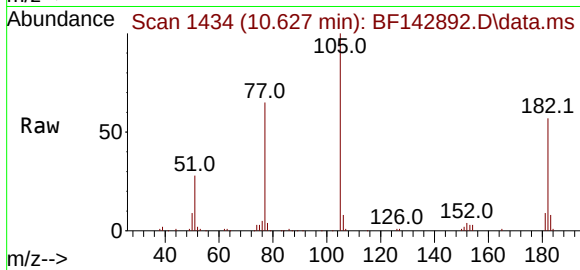
Ion Ratio Lower Upper

77 100

182 87.6 7.7 47.7#

105 154.8 1.9 41.9#

51 42.6 13.3 53.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1566

Delta R.T. -0.006 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

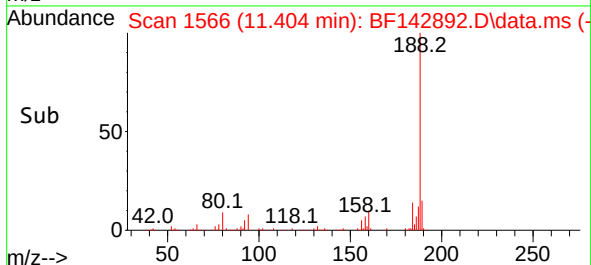
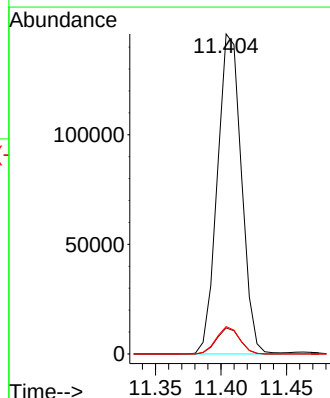
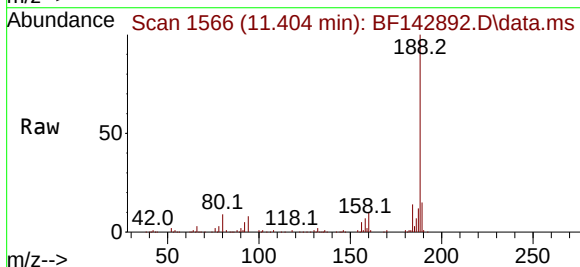
Tgt Ion: 188 Resp: 186159

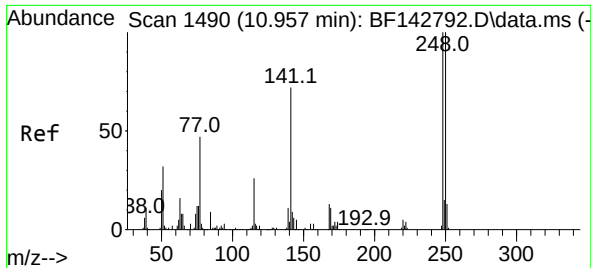
Ion Ratio Lower Upper

188 100

94 8.2 6.7 10.1

80 8.5 6.9 10.3

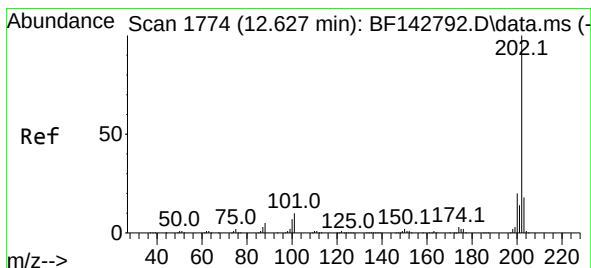
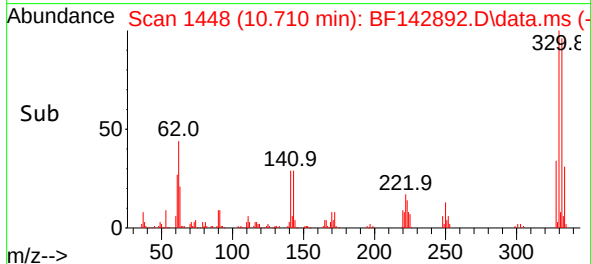
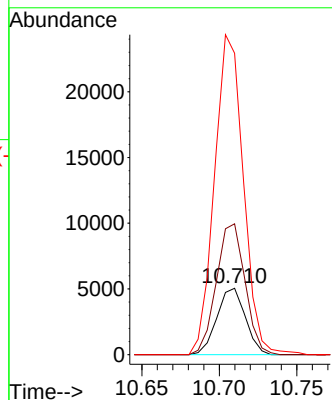
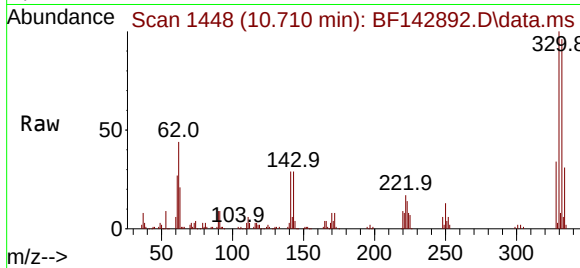




#67  
4-Bromophenyl-phenylether  
Concen: 3.050 ng  
RT: 10.710 min Scan# 14  
Delta R.T. -0.247 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

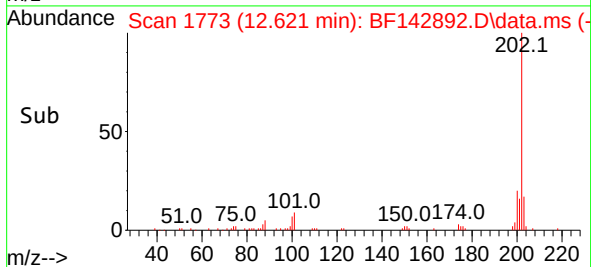
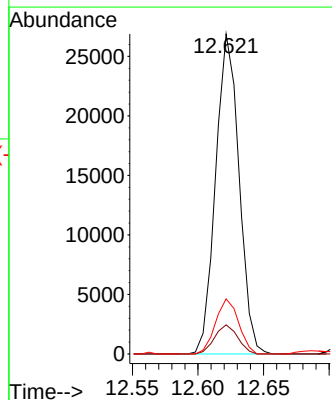
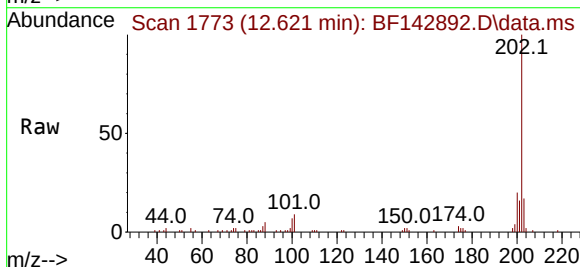
Instrument :  
BNA\_F  
ClientSampleId :  
TP-34

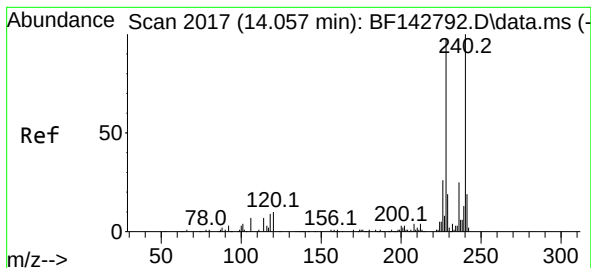
Tgt Ion:248 Resp: 6461  
Ion Ratio Lower Upper  
248 100  
250 197.2 79.8 119.8#  
141 454.2 57.8 86.6#



#75  
Fluoranthene  
Concen: 3.483 ng  
RT: 12.621 min Scan# 1773  
Delta R.T. -0.006 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

Tgt Ion:202 Resp: 33338  
Ion Ratio Lower Upper  
202 100  
101 9.1 0.0 29.7  
203 17.2 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

Instrument :

BNA\_F

ClientSampleId :

TP-34

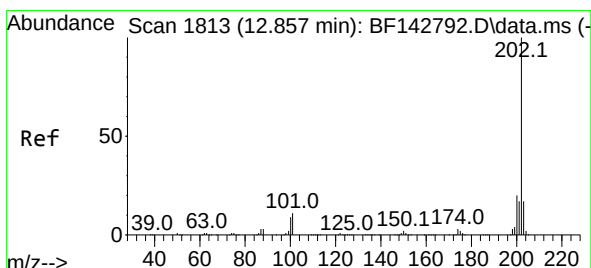
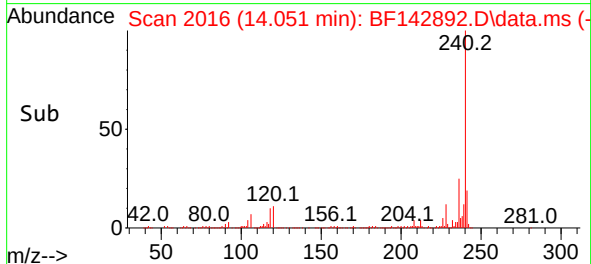
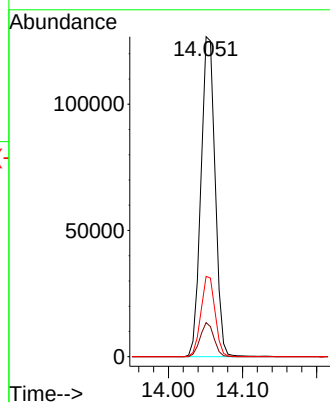
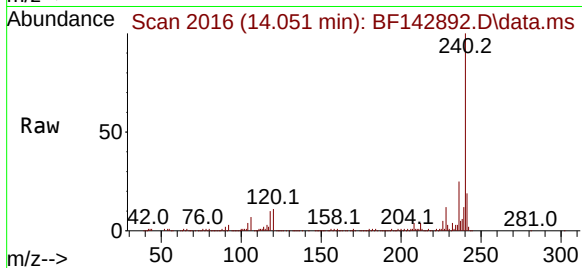
Tgt Ion:240 Resp: 169043

Ion Ratio Lower Upper

240 100

120 10.7 8.2 12.2

236 25.1 19.8 29.8



#78

Pyrene

Concen: 2.085 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

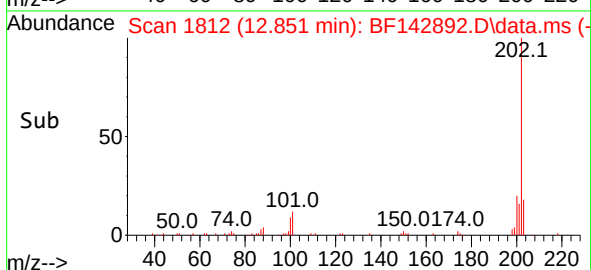
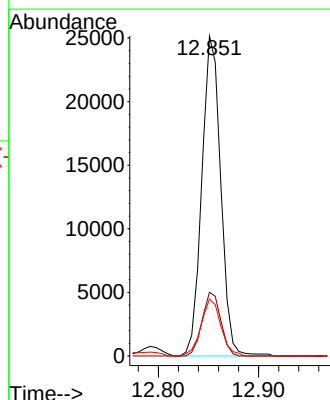
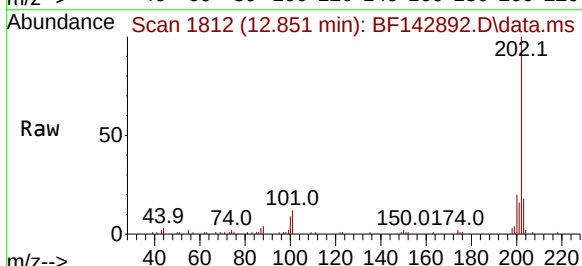
Tgt Ion:202 Resp: 33041

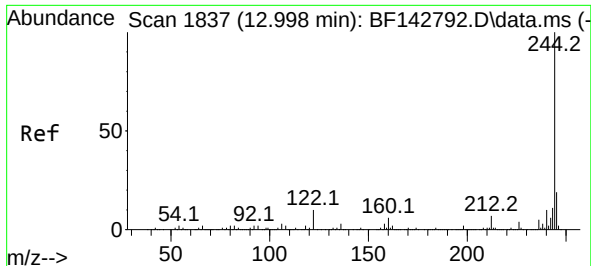
Ion Ratio Lower Upper

202 100

200 19.9 15.7 23.5

203 17.8 13.8 20.6





#79

Terphenyl-d14

Concen: 36.159 ng

RT: 12.992 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

Instrument :

BNA\_F

ClientSampleId :

TP-34

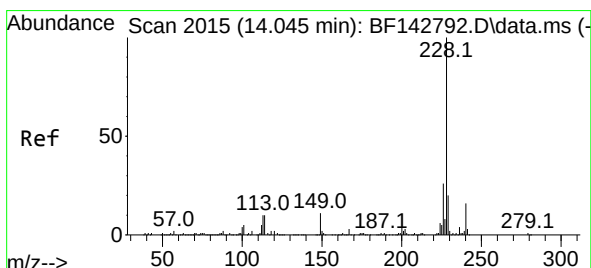
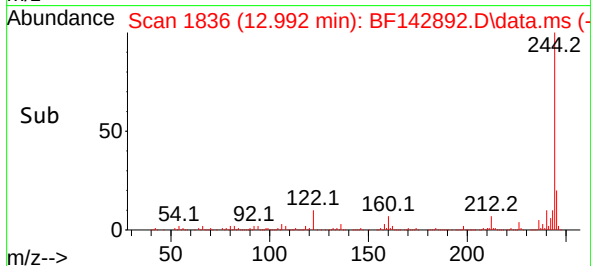
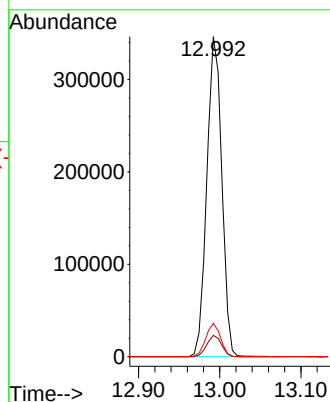
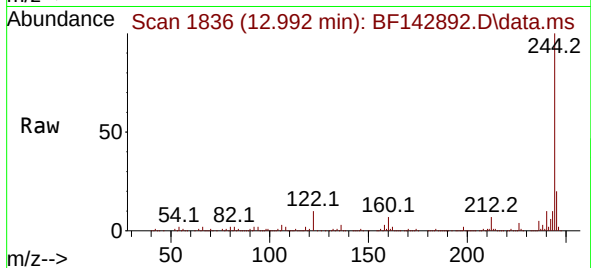
Tgt Ion:244 Resp: 442381

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 10.4 8.2 12.2



#81

Benzo(a)anthracene

Concen: 2.056 ng

RT: 14.074 min Scan# 2020

Delta R.T. 0.029 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

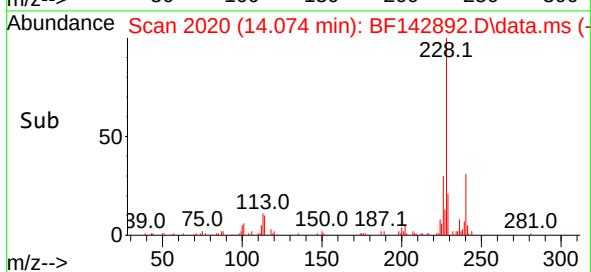
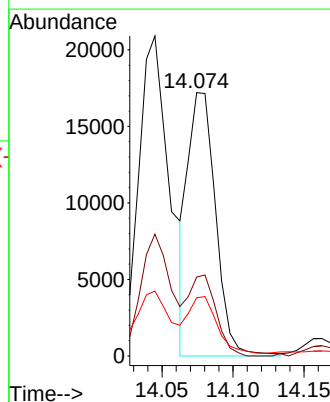
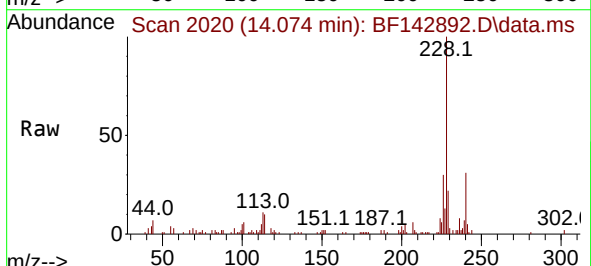
Tgt Ion:228 Resp: 23444

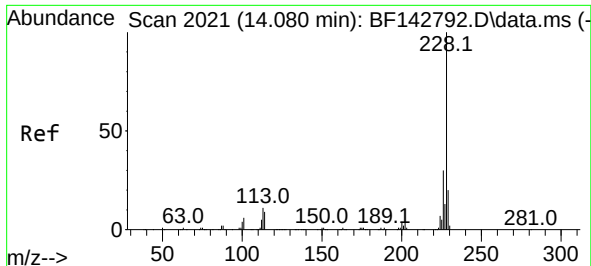
Ion Ratio Lower Upper

228 100

226 30.0 21.2 31.8

229 22.1 15.6 23.4





#83

Chrysene

Concen: 2.304 ng

RT: 14.074 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

Instrument :

BNA\_F

ClientSampleId :

TP-34

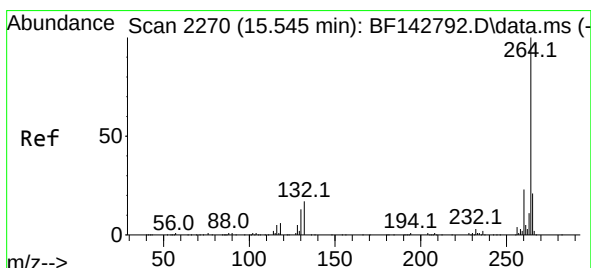
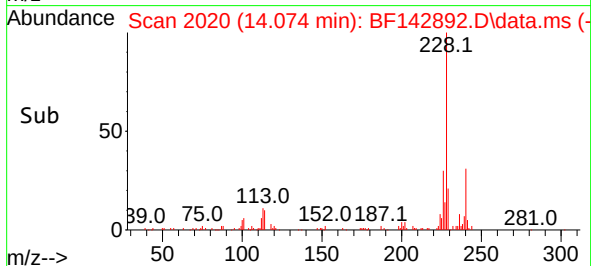
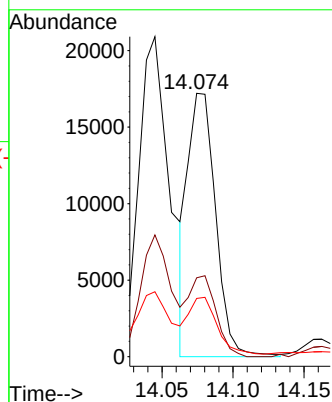
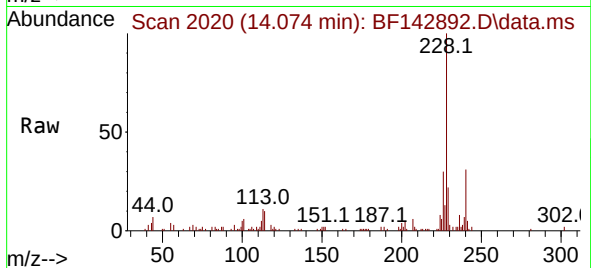
Tgt Ion:228 Resp: 23444

Ion Ratio Lower Upper

228 100

226 30.0 23.7 35.5

229 22.1 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BF142892.D

Acq: 27 Jun 2025 14:47

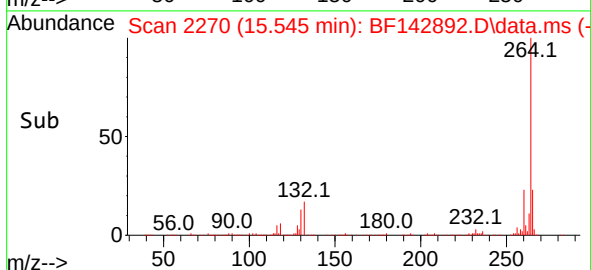
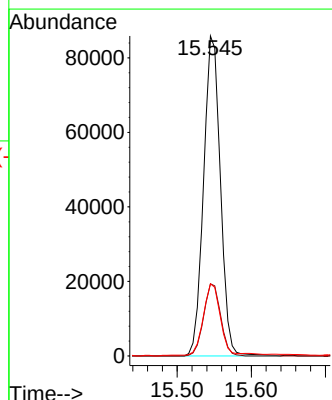
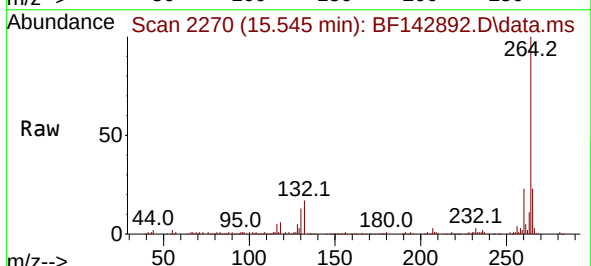
Tgt Ion:264 Resp: 135290

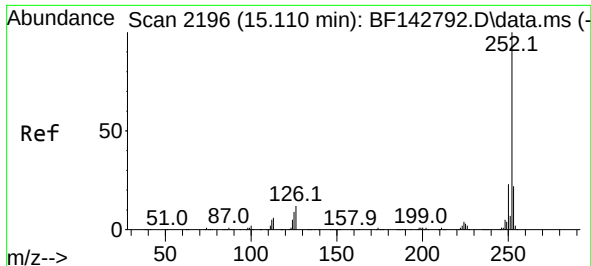
Ion Ratio Lower Upper

264 100

260 22.6 18.1 27.1

265 22.5 16.6 25.0

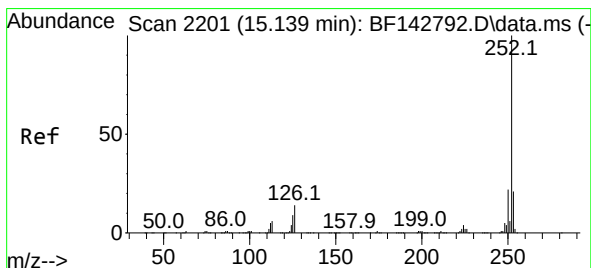
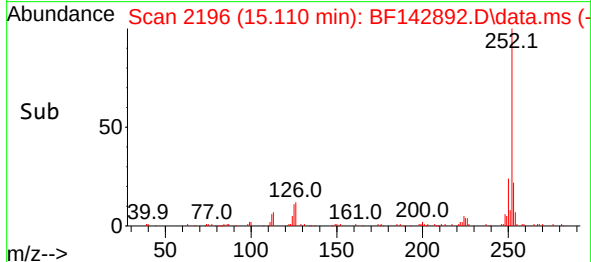
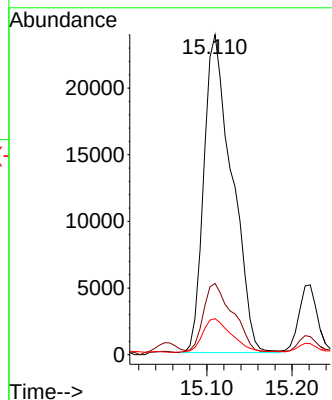
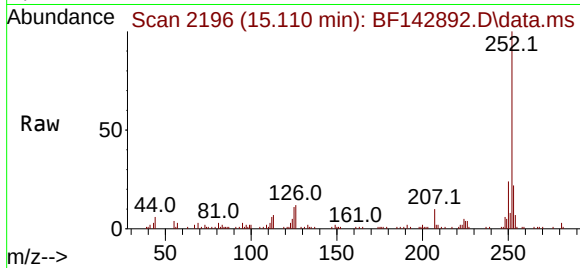




#88  
Benzo(b)fluoranthene  
Concen: 7.010 ng  
RT: 15.110 min Scan# 2196  
Delta R.T. 0.000 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

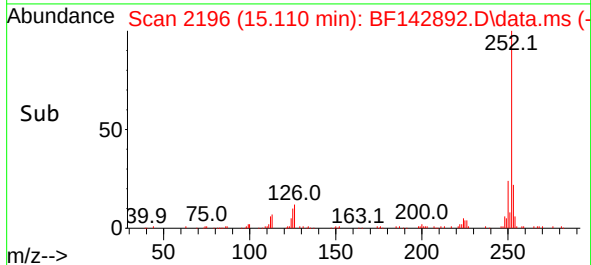
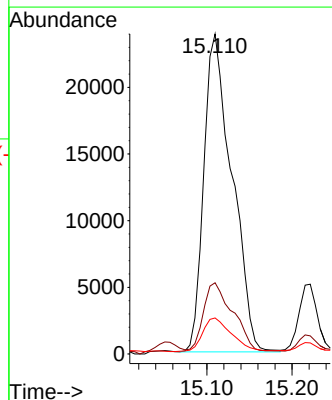
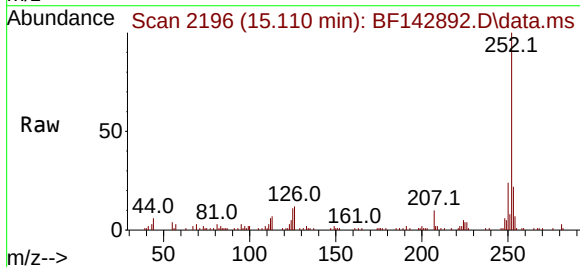
Instrument :  
BNA\_F  
ClientSampleId :  
TP-34

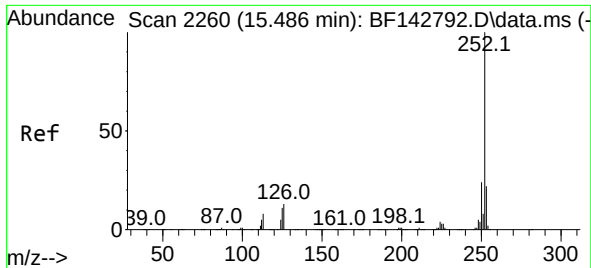
Tgt Ion:252 Resp: 54879  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.5 26.3  
125 11.3 7.4 11.0#



#89  
Benzo(k)fluoranthene  
Concen: 7.493 ng  
RT: 15.110 min Scan# 2196  
Delta R.T. -0.029 min  
Lab File: BF142892.D  
Acq: 27 Jun 2025 14:47

Tgt Ion:252 Resp: 54879  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.2 25.8  
125 11.3 7.4 11.2#





#90  
 Benzo(a)pyrene  
 Concen: 3.287 ng  
 RT: 15.480 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BF142892.D  
 Acq: 27 Jun 2025 14:47

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-34

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 24857     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 22.2  | 17.5 26.3 |
| 125         | 11.6  | 8.6 12.8  |

