

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072925\  
 Data File : BF143267.D  
 Acq On : 29 Jul 2025 20:39  
 Operator : RC/JU  
 Sample : Q2710-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-07282025

Quant Time: Jul 30 01:04:52 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF071725.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 17 15:14:05 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.963  | 152  | 75935    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.239  | 136  | 264293   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.998  | 164  | 129136   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.480 | 188  | 233855   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.127 | 240  | 205641   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.633 | 264  | 146619   | 20.000 | ng    | 0.01     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.593  | 112  | 351150   | 73.179 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.581  | 99   | 428174   | 70.892 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.516  | 82   | 274417   | 51.756 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.786 | 330  | 112521   | 84.346 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.316  | 172  | 495053   | 52.429 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.069 | 244  | 569782   | 41.232 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.516  | 70   | 37066    | 9.565  | ng    | # 78     |
| 25) Isophorone                | 7.516  | 82   | 271726   | 29.031 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene        | 9.998  | 165  | 17260    | 10.080 | ng    | # 23     |
| 63) Azobenzene                | 10.704 | 77   | 32926    | 3.797  | ng    | # 1      |
| 65) 4,6-Dinitro-2-methylph... | 10.786 | 198  | 131      | 5.507  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.780 | 248  | 6778     | 2.432  | ng    | # 1      |
| 75) Fluoranthene              | 12.698 | 202  | 49268    | 4.323  | ng    | 96       |
| 78) Pyrene                    | 12.927 | 202  | 57627    | 3.284  | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.116 | 228  | 34347    | 2.495  | ng    | # 88     |
| 83) Chrysene                  | 14.151 | 228  | 29624    | 2.393  | ng    | # 90     |
| 88) Benzo(b)fluoranthene      | 15.186 | 252  | 42642    | 4.761  | ng    | # 78     |
| 89) Benzo(k)fluoranthene      | 15.186 | 252  | 42642    | 5.335  | ng    | # 79     |
| 90) Benzo(a)pyrene            | 15.568 | 252  | 19784    | 2.397  | ng    | # 77     |
| -----                         |        |      |          |        |       |          |

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

**Instrument :**

BNA F

ClientSampleId :

JC-03-07282025

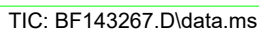
Quant Time: Jul 30 01:04:52 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Jul 17 15:14:05 2025

Response via : Initial Calibration

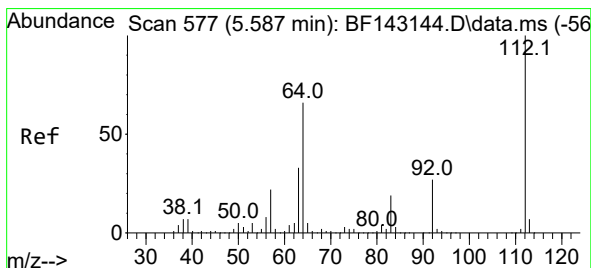
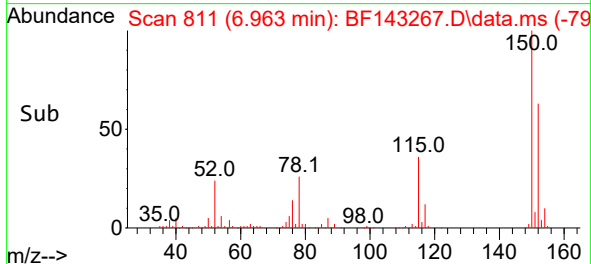
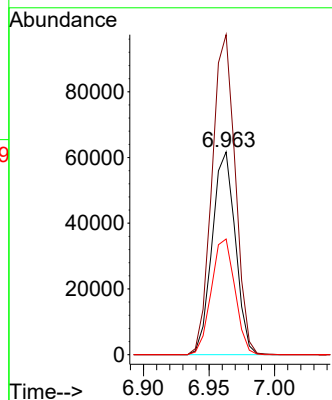
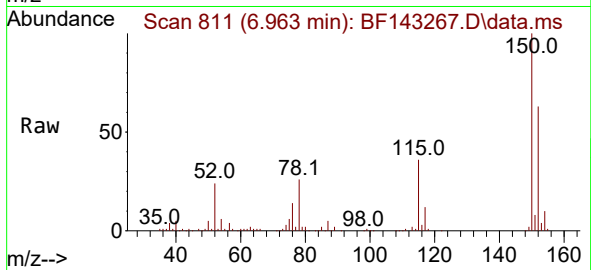




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.963 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

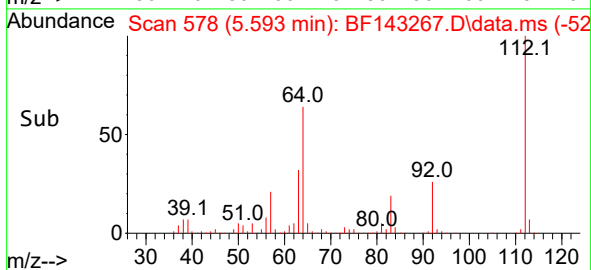
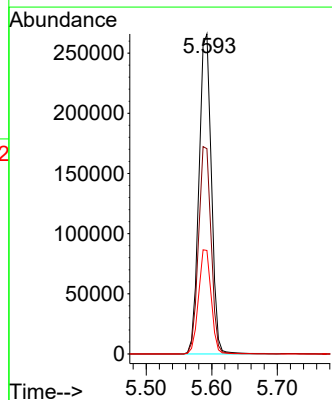
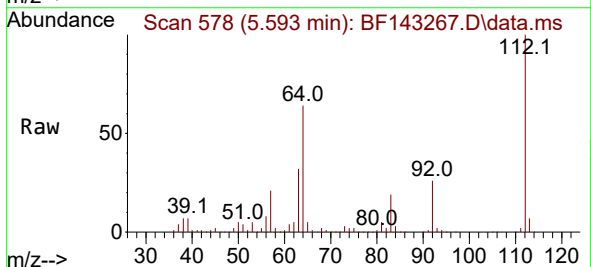
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BNA\_F  
ClientSampleId :  
JC-03-07282025

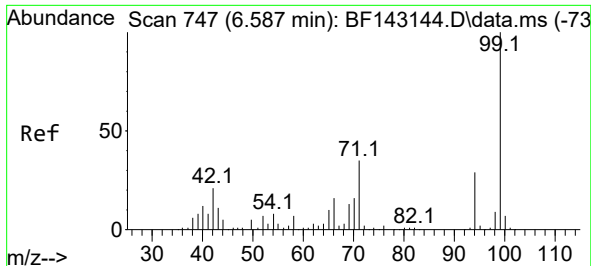
Tgt Ion:152 Resp: 75935  
Ion Ratio Lower Upper  
152 100  
150 157.9 128.2 192.4  
115 57.1 47.9 71.9



#5  
2-Fluorophenol  
Concen: 73.179 ng  
RT: 5.593 min Scan# 578  
Delta R.T. 0.006 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

Tgt Ion:112 Resp: 351150  
Ion Ratio Lower Upper  
112 100  
64 64.1 53.1 79.7  
63 32.4 26.6 40.0

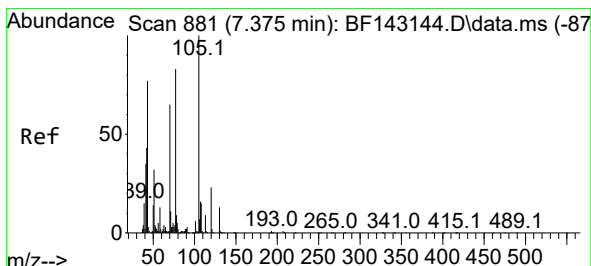
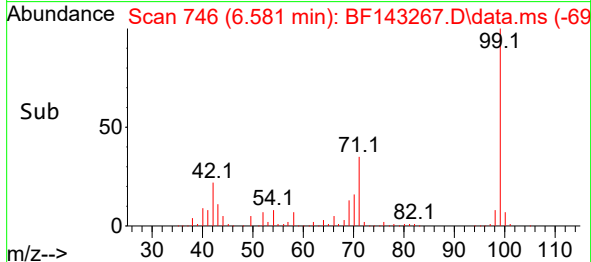
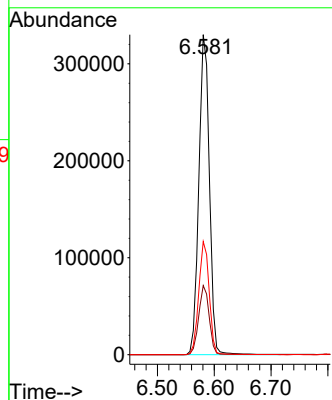
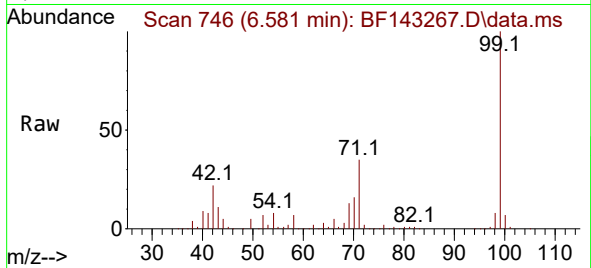




#7  
Phenol-d6  
Concen: 70.892 ng  
RT: 6.581 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

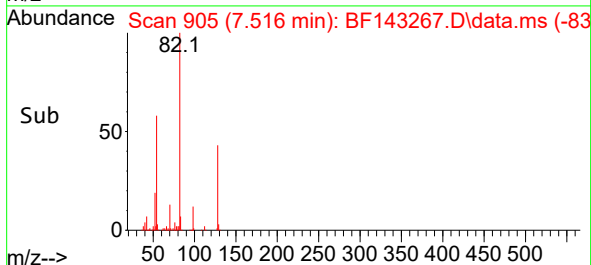
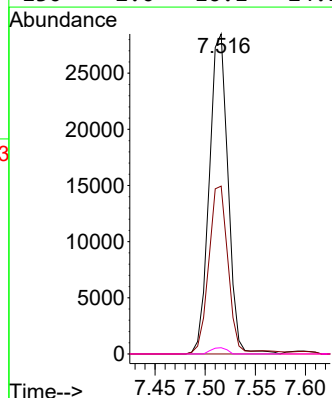
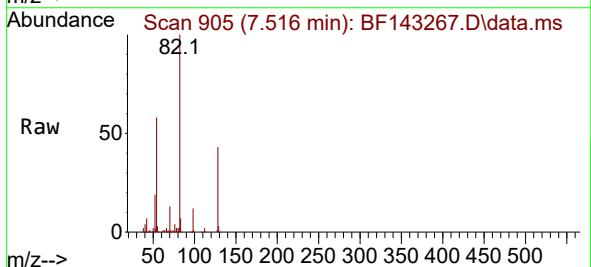
Instrument :  
BNA\_F  
ClientSampleId :  
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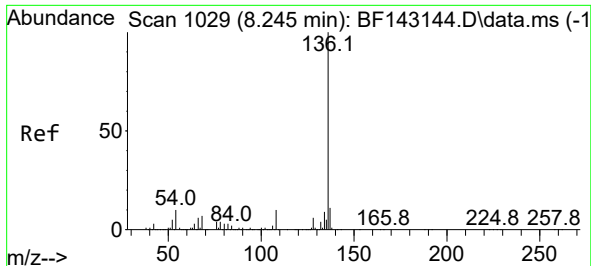
Tgt Ion: 99 Resp: 428174  
Ion Ratio Lower Upper  
99 100  
42 21.6 17.0 25.6  
71 35.4 27.7 41.5



#19  
n-Nitroso-di-n-propylamine  
Concen: 9.565 ng  
RT: 7.516 min Scan# 905  
Delta R.T. 0.141 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

Tgt Ion: 70 Resp: 37066  
Ion Ratio Lower Upper  
70 100  
42 52.5 52.5 78.7#  
101 0.0 7.6 11.4#  
130 2.0 16.1 24.1#

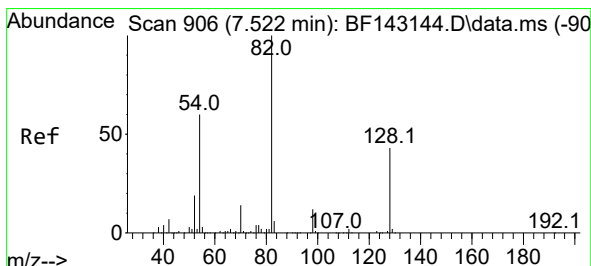
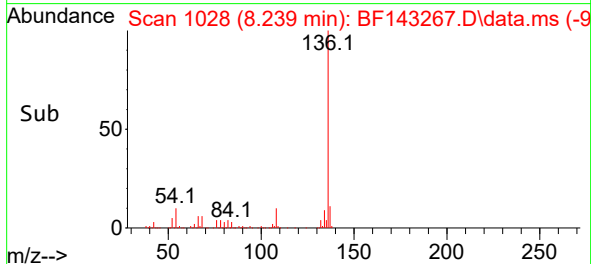
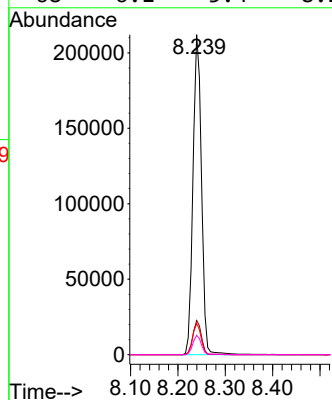
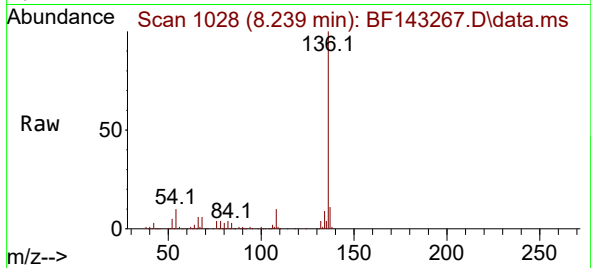




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.239 min Scan# 1028  
Delta R.T. -0.006 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

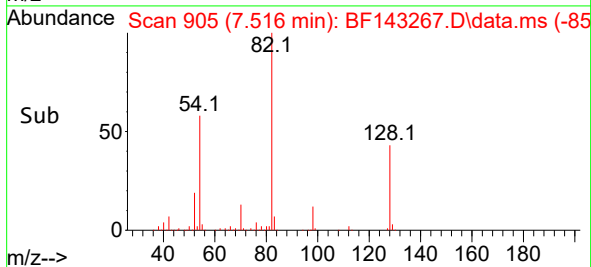
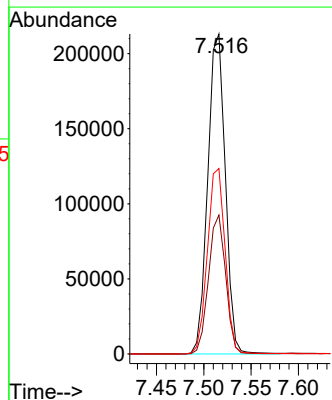
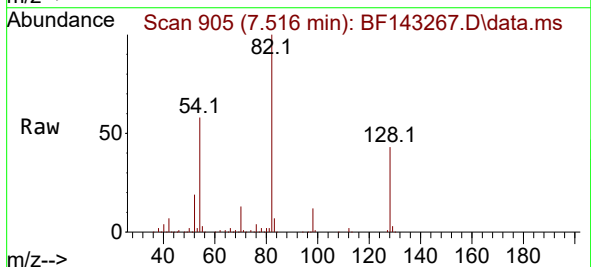
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-07282025

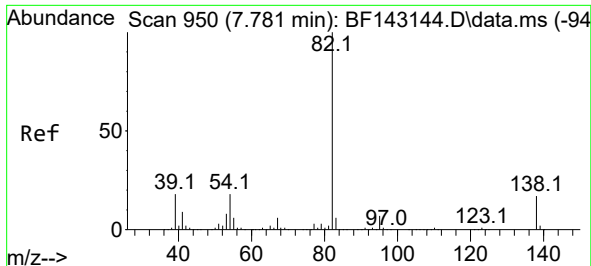
Tgt Ion:136 Resp: 264293  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.6 13.0  
54 9.7 8.2 12.2  
68 6.1 5.4 8.2



#23  
Nitrobenzene-d5  
Concen: 51.756 ng  
RT: 7.516 min Scan# 905  
Delta R.T. -0.006 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

Tgt Ion: 82 Resp: 274417  
Ion Ratio Lower Upper  
82 100  
128 43.4 33.6 50.4  
54 58.0 47.1 70.7

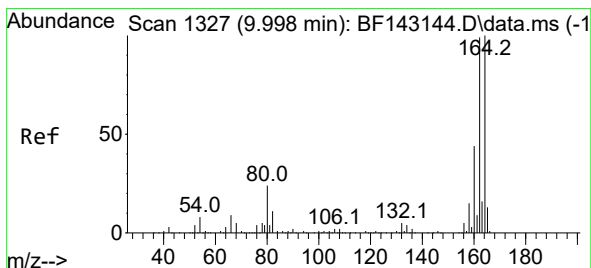
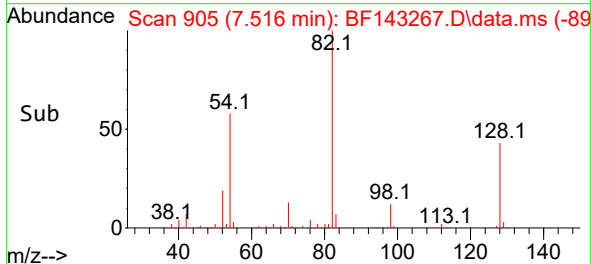
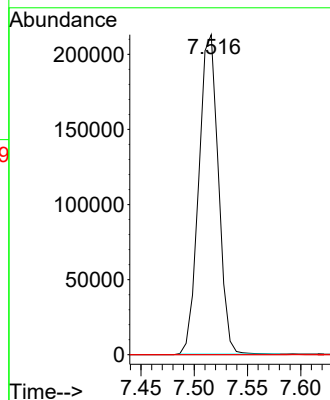
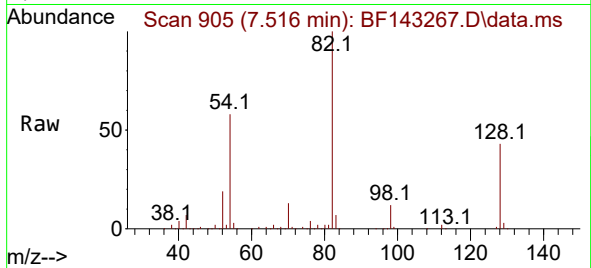




#25  
Isophorone  
Concen: 29.031 ng  
RT: 7.516 min Scan# 905  
Delta R.T. -0.265 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

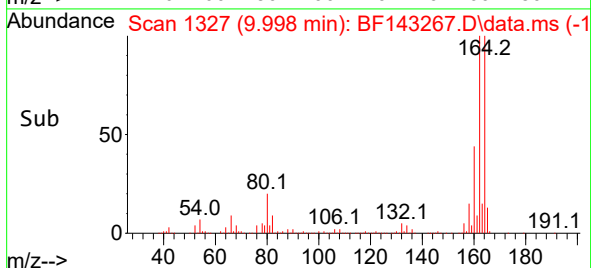
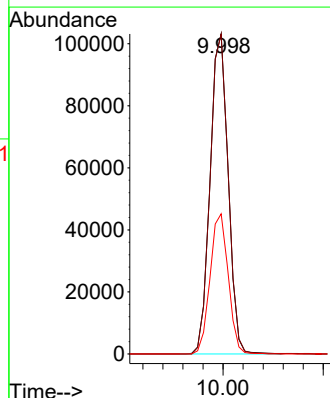
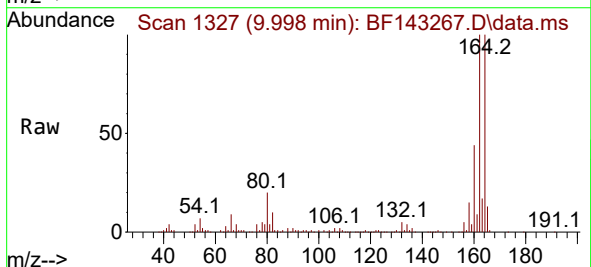
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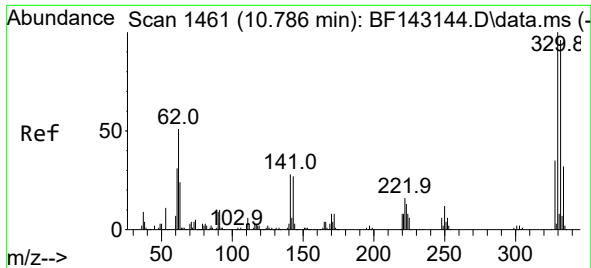
Tgt Ion: 82 Resp: 271726  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.5 8.3#  
138 0.0 13.8 20.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.998 min Scan# 1327  
Delta R.T. 0.000 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

Tgt Ion:164 Resp: 129136  
Ion Ratio Lower Upper  
164 100  
162 100.0 79.0 118.6  
160 43.8 35.1 52.7

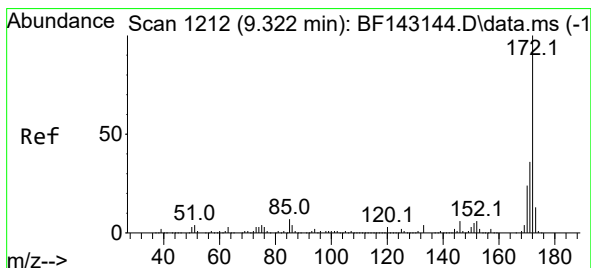
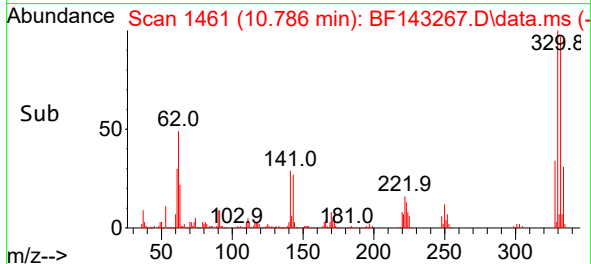
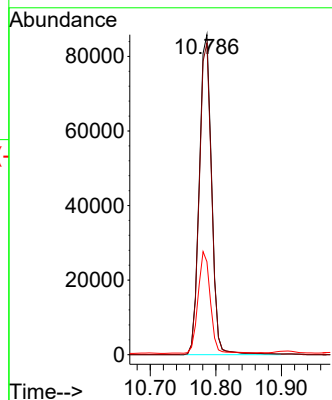
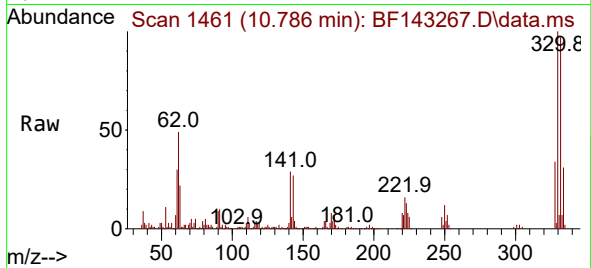




#42  
2,4,6-Tribromophenol  
Concen: 84.346 ng  
RT: 10.786 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

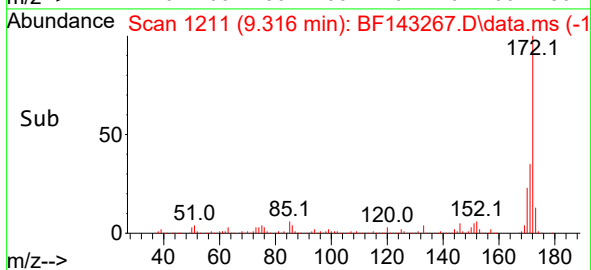
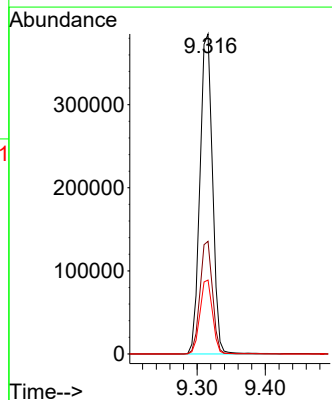
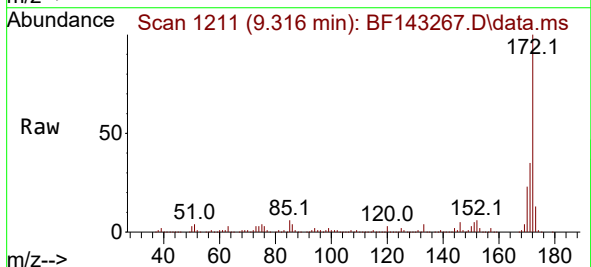
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-07282025

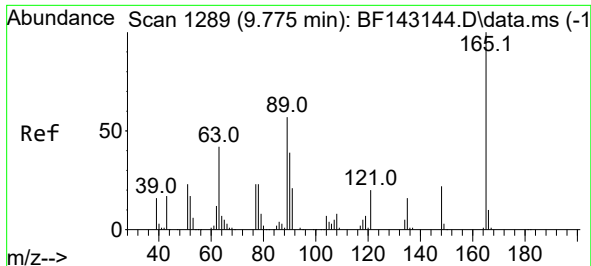
Tgt Ion:330 Resp: 112521  
Ion Ratio Lower Upper  
330 100  
332 97.5 76.7 115.1  
141 31.4 23.3 34.9



#45  
2-Fluorobiphenyl  
Concen: 52.429 ng  
RT: 9.316 min Scan# 1211  
Delta R.T. -0.006 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

Tgt Ion:172 Resp: 495053  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.6 42.8  
170 23.1 18.8 28.2

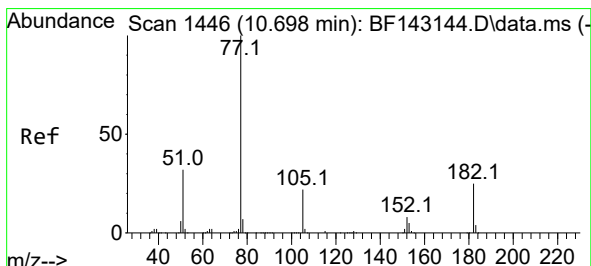
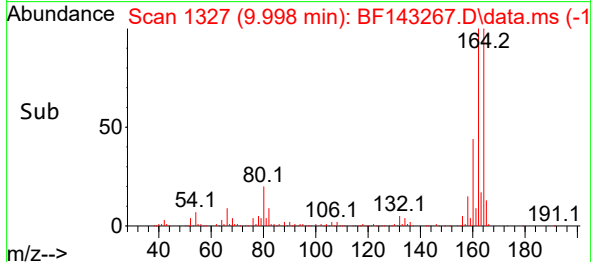
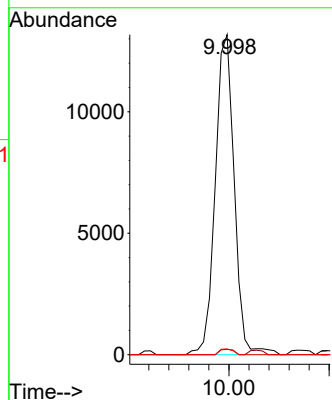
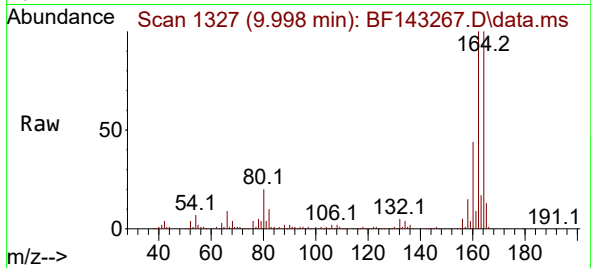




#51  
2,6-Dinitrotoluene  
Concen: 10.080 ng  
RT: 9.998 min Scan# 11  
Delta R.T. 0.224 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

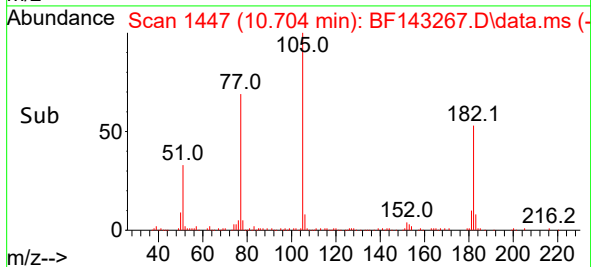
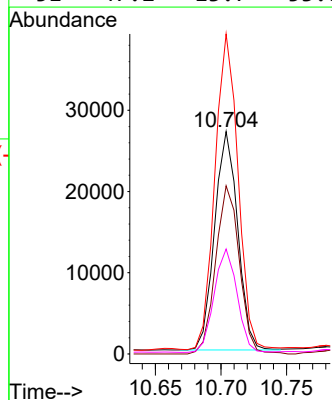
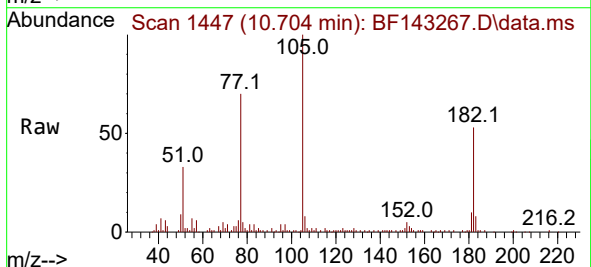
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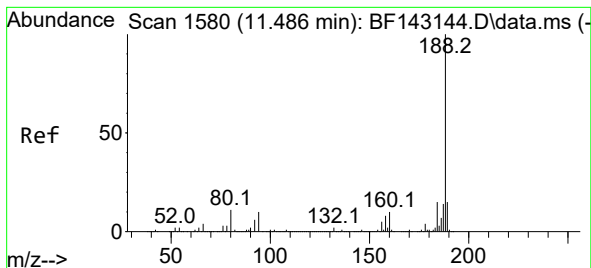
Tgt Ion:165 Resp: 17260  
Ion Ratio Lower Upper  
165 100  
63 1.7 49.4 74.2#  
89 1.8 46.2 69.2#



#63  
Azobenzene  
Concen: 3.797 ng  
RT: 10.704 min Scan# 1447  
Delta R.T. 0.006 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

Tgt Ion: 77 Resp: 32926  
Ion Ratio Lower Upper  
77 100  
182 75.6 4.6 44.6#  
105 143.9 1.4 41.4#  
51 47.2 13.7 53.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.480 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143267.D

Acq: 29 Jul 2025 20:39

Instrument :

BNA\_F

ClientSampleId :

JC-03-07282025

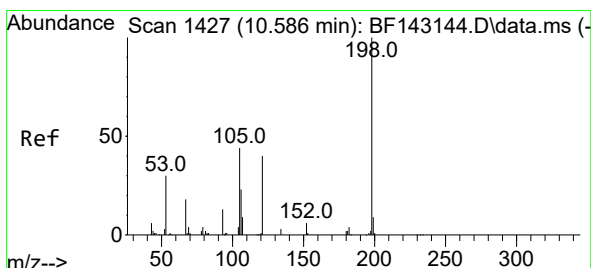
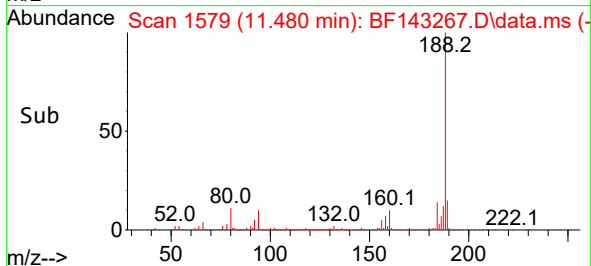
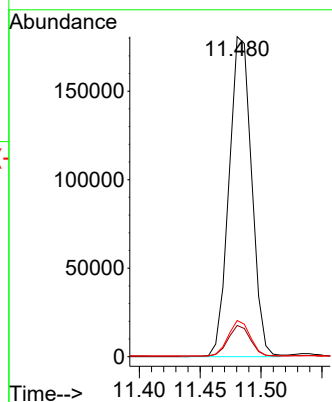
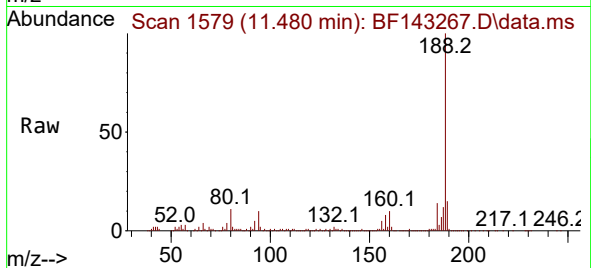
Tgt Ion:188 Resp: 233855

Ion Ratio Lower Upper

188 100

94 9.8 8.3 12.5

80 11.3 9.0 13.6



#65

4,6-Dinitro-2-methylphenol

Concen: 5.507 ng

RT: 10.786 min Scan# 1461

Delta R.T. 0.200 min

Lab File: BF143267.D

Acq: 29 Jul 2025 20:39

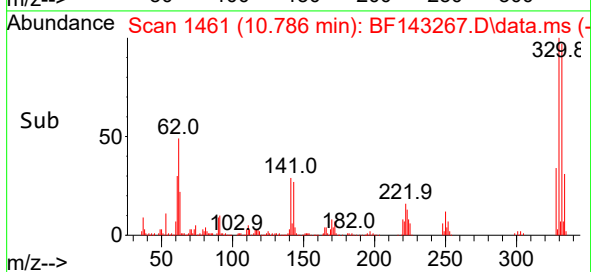
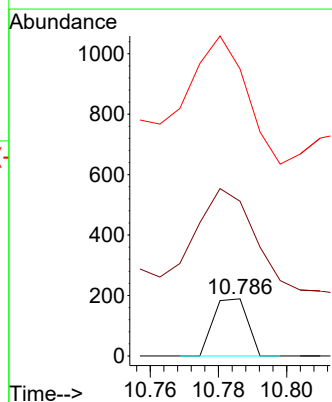
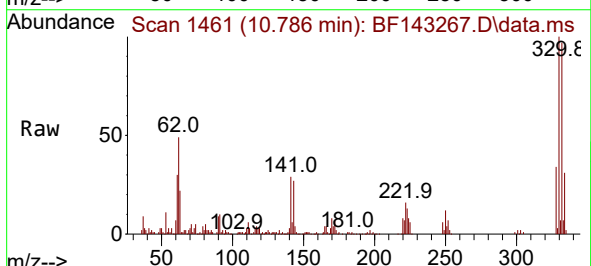
Tgt Ion:198 Resp: 131

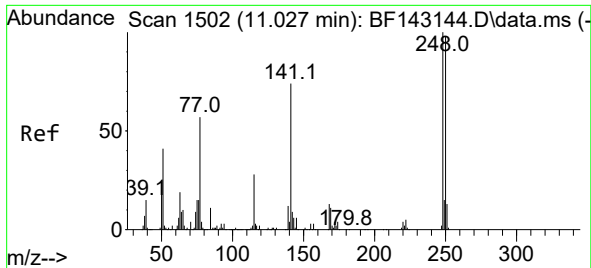
Ion Ratio Lower Upper

198 100

51 270.9 37.2 77.2#

105 502.6 24.8 64.8#

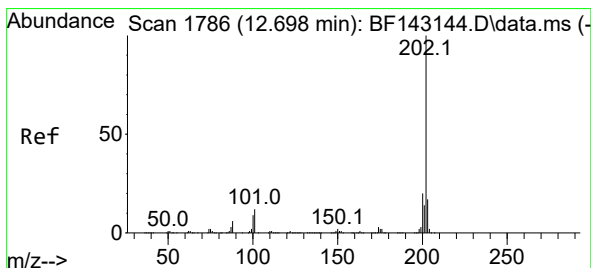
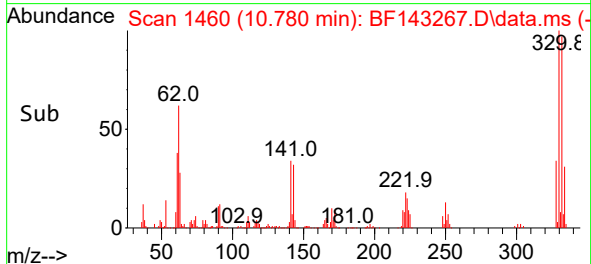
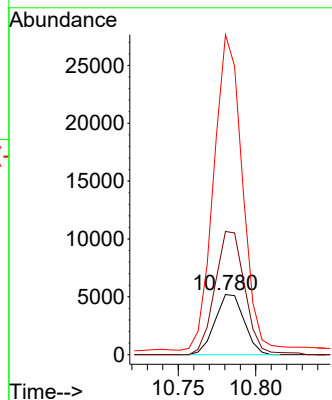
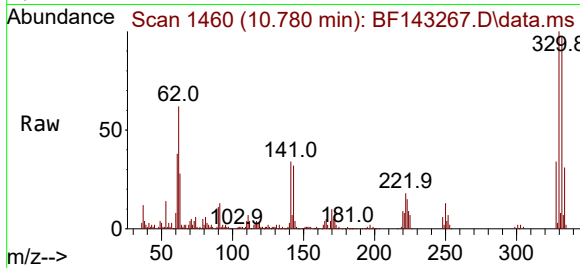




#67  
4-Bromophenyl-phenylether  
Concen: 2.432 ng  
RT: 10.780 min Scan# 1460  
Delta R.T. -0.247 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

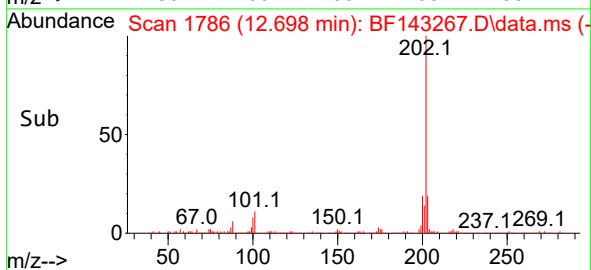
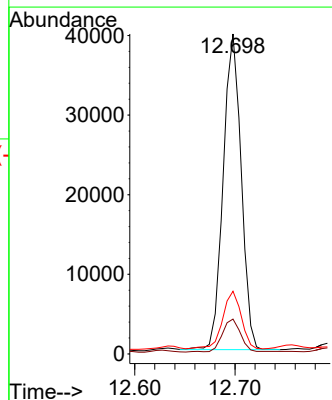
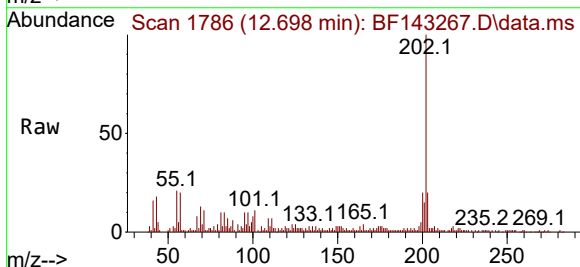
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-07282025

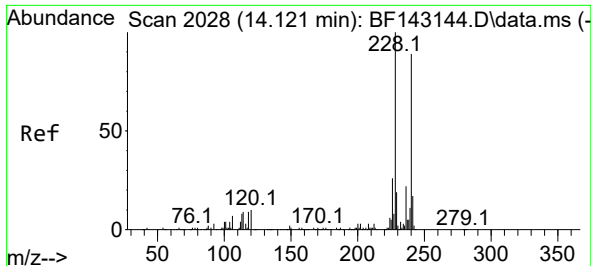
Tgt Ion:248 Resp: 6778  
Ion Ratio Lower Upper  
248 100  
250 205.1 78.3 117.5#  
141 532.4 59.2 88.8#



#75  
Fluoranthene  
Concen: 4.323 ng  
RT: 12.698 min Scan# 1786  
Delta R.T. 0.000 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

Tgt Ion:202 Resp: 49268  
Ion Ratio Lower Upper  
202 100  
101 10.9 0.0 31.7  
203 19.6 0.0 37.4

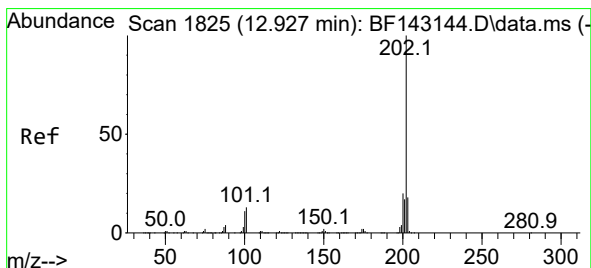
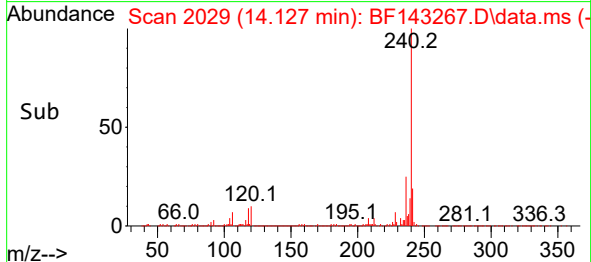
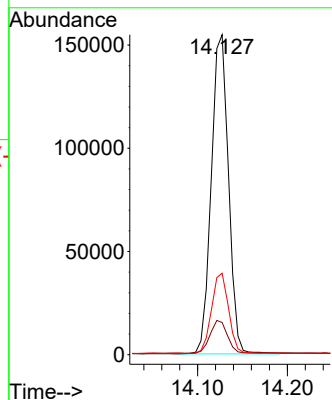
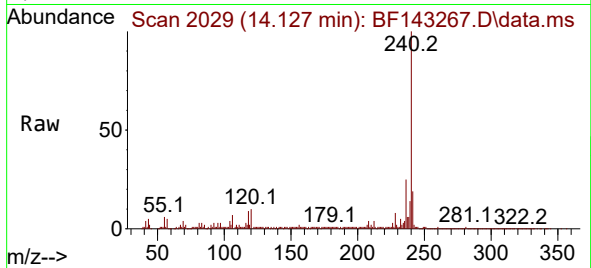




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.127 min Scan# 2028  
Delta R.T. 0.006 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

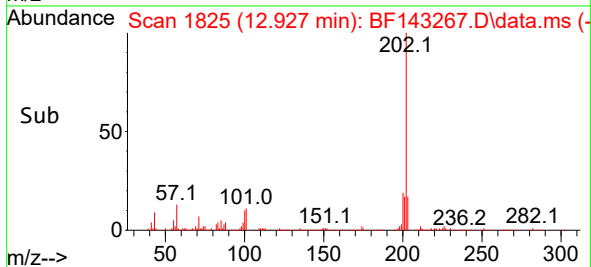
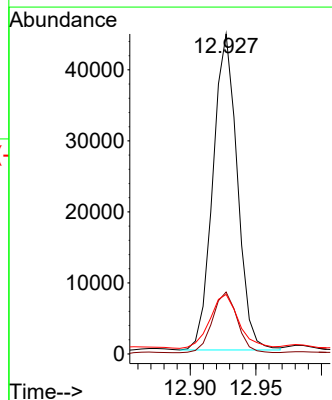
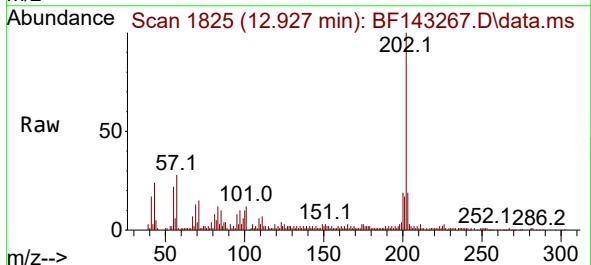
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-07282025

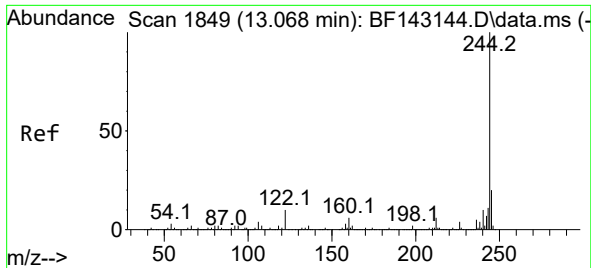
Tgt Ion:240 Resp: 205641  
Ion Ratio Lower Upper  
240 100  
120 10.1 9.4 14.2  
236 25.4 20.2 30.4



#78  
Pyrene  
Concen: 3.284 ng  
RT: 12.927 min Scan# 1825  
Delta R.T. 0.000 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

Tgt Ion:202 Resp: 57627  
Ion Ratio Lower Upper  
202 100  
200 19.4 15.7 23.5  
203 18.6 14.2 21.2

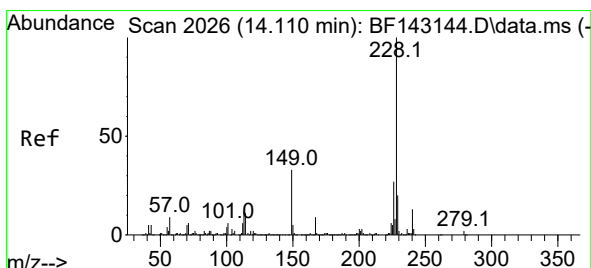
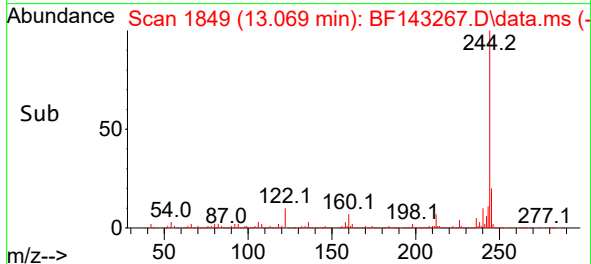
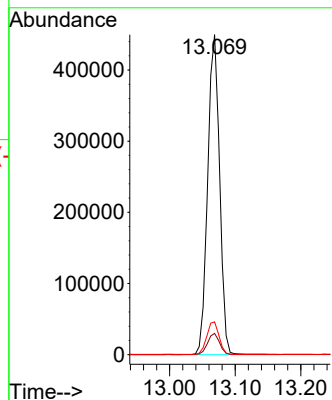
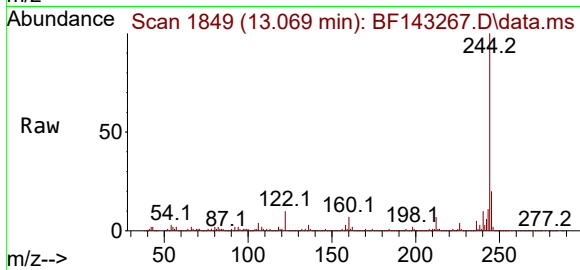




#79  
 Terphenyl-d14  
 Concen: 41.232 ng  
 RT: 13.069 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: BF143267.D  
 Acq: 29 Jul 2025 20:39

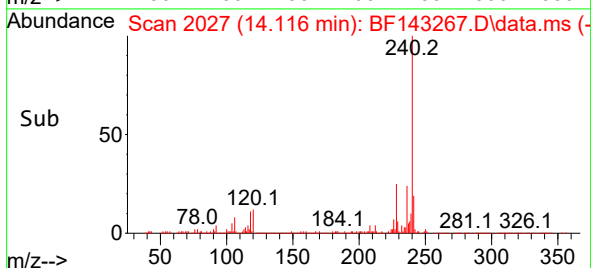
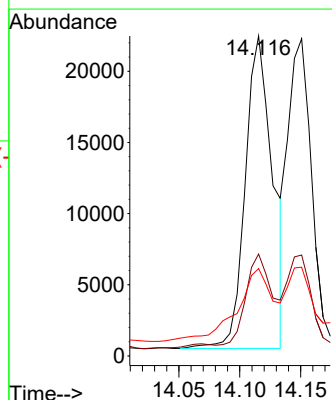
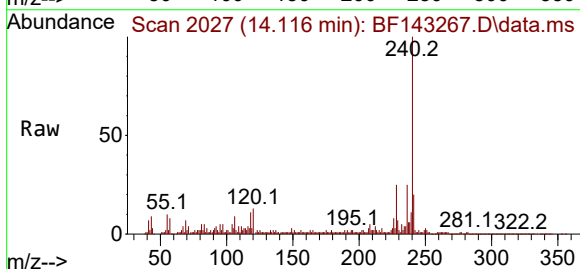
Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-07282025

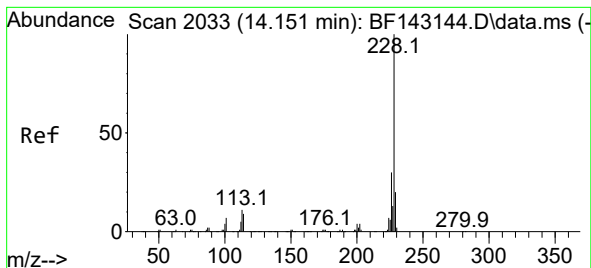
Tgt Ion:244 Resp: 569782  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.2 7.8  
 122 10.2 8.2 12.2



#81  
 Benzo(a)anthracene  
 Concen: 2.495 ng  
 RT: 14.116 min Scan# 2027  
 Delta R.T. 0.006 min  
 Lab File: BF143267.D  
 Acq: 29 Jul 2025 20:39

Tgt Ion:228 Resp: 34347  
 Ion Ratio Lower Upper  
 228 100  
 226 31.8 21.7 32.5  
 229 27.3 15.8 23.6#





#83

Chrysene

Concen: 2.393 ng

RT: 14.151 min Scan# 2033

Delta R.T. 0.000 min

Lab File: BF143267.D

Acq: 29 Jul 2025 20:39

Instrument :

BNA\_F

ClientSampleId :

JC-03-07282025

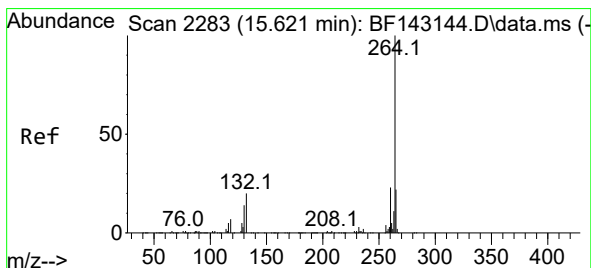
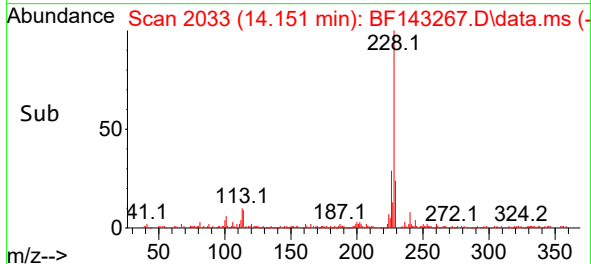
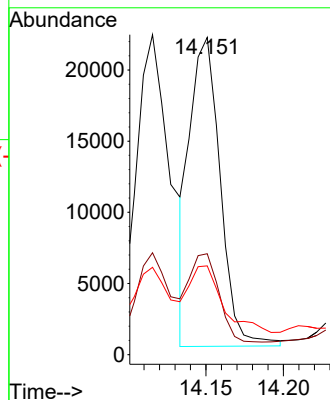
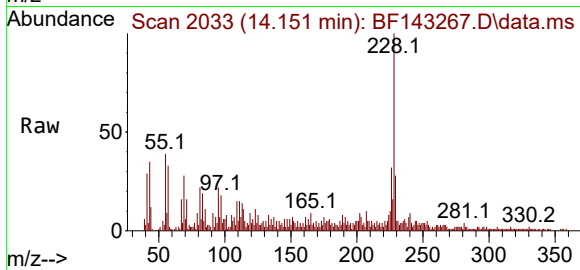
Tgt Ion:228 Resp: 29624

Ion Ratio Lower Upper

228 100

226 31.8 23.8 35.8

229 28.0 15.6 23.4#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.633 min Scan# 2285

Delta R.T. 0.012 min

Lab File: BF143267.D

Acq: 29 Jul 2025 20:39

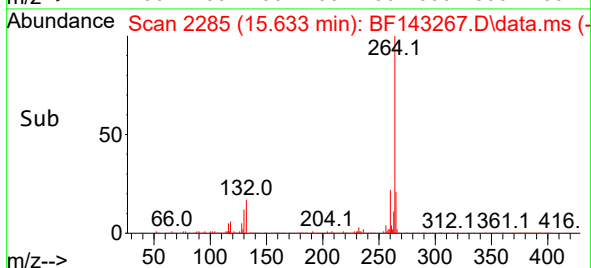
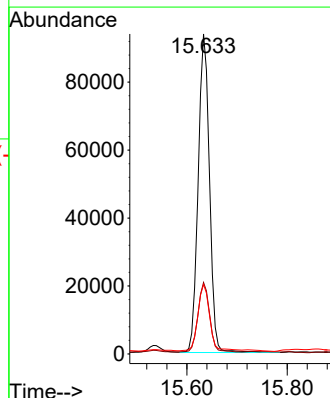
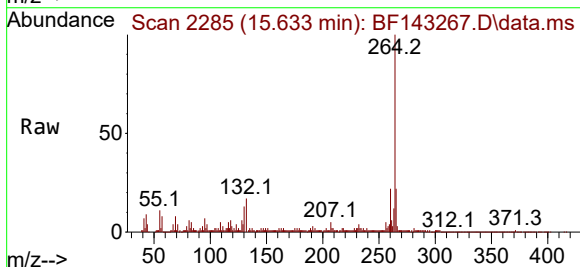
Tgt Ion:264 Resp: 146619

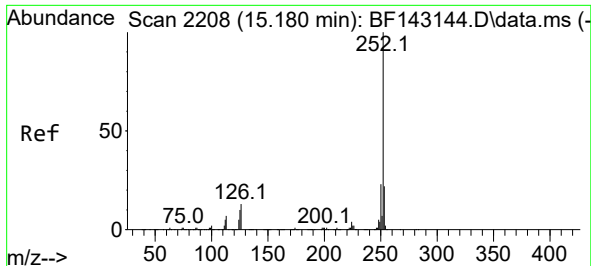
Ion Ratio Lower Upper

264 100

260 22.3 18.5 27.7

265 21.8 17.4 26.2

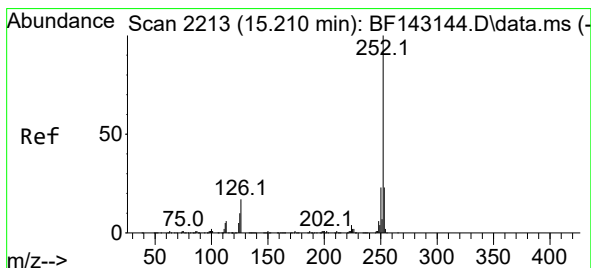
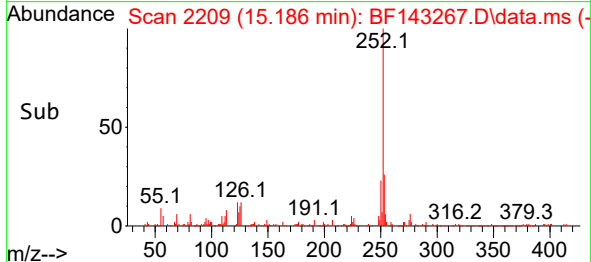
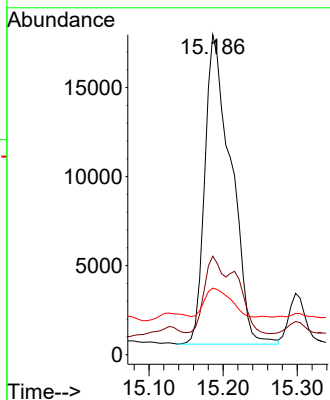
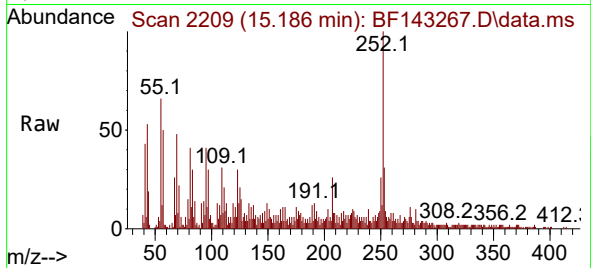




#88  
Benzo(b)fluoranthene  
Concen: 4.761 ng  
RT: 15.186 min Scan# 2209  
Delta R.T. 0.006 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

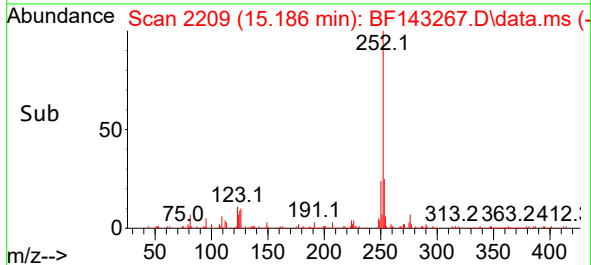
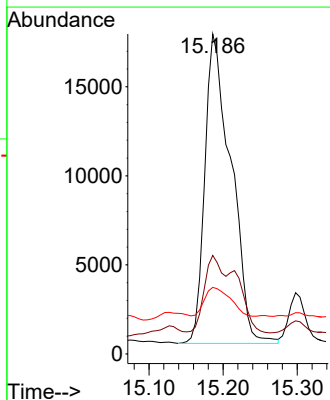
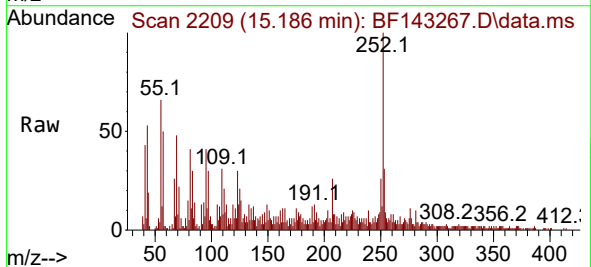
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-07282025

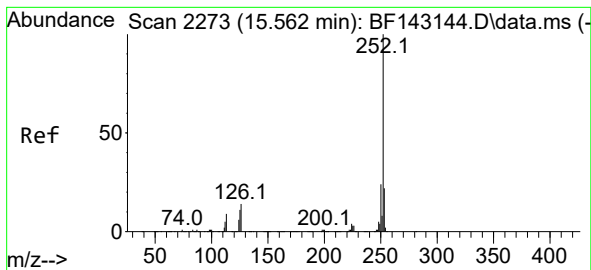
Tgt Ion:252 Resp: 42642  
Ion Ratio Lower Upper  
252 100  
253 30.8 17.5 26.3#  
125 20.8 8.0 12.0#



#89  
Benzo(k)fluoranthene  
Concen: 5.335 ng  
RT: 15.186 min Scan# 2209  
Delta R.T. -0.023 min  
Lab File: BF143267.D  
Acq: 29 Jul 2025 20:39

Tgt Ion:252 Resp: 42642  
Ion Ratio Lower Upper  
252 100  
253 30.8 17.8 26.6#  
125 20.8 8.1 12.1#





#90

Benzo(a)pyrene

Concen: 2.397 ng

RT: 15.568 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143267.D

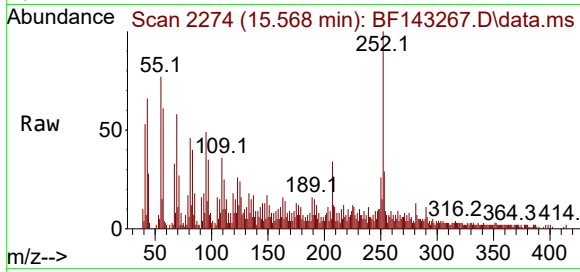
Acq: 29 Jul 2025 20:39

Instrument :

BNA\_F

ClientSampleId :

JC-03-07282025



Tgt Ion:252 Resp: 19784

Ion Ratio Lower Upper

252 100

253 29.2 17.3 25.9#

125 24.5 8.6 13.0#

