

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF072225\  
 Data File : BF143186.D  
 Acq On : 22 Jul 2025 13:21  
 Operator : RC/JU  
 Sample : Q2638-09  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

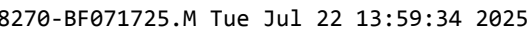
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OU4-TS-35-071725

Quant Time: Jul 22 13:57:39 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  | 115140   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.245  | 136  | 440411   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.998  | 164  | 225605   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.486 | 188  | 327250   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.122 | 240  | 247179   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.633 | 264  | 168171   | 20.000 | ng    | 0.01     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.587  | 112  | 510370   | 70.144 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.581  | 99   | 670908   | 73.258 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.516  | 82   | 424247   | 48.018 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.786 | 330  | 155394   | 66.675 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.316  | 172  | 772947   | 46.856 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.069 | 244  | 616315   | 37.104 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.516  | 70   | 56984    | 9.698  | ng    | # 80     |
| 25) Isophorone                | 7.516  | 82   | 421050   | 26.995 | ng    | # 66     |
| 32) Benzoic acid              | 7.922  | 122  | 408      | 5.267  | ng    | # 88     |
| 51) 2,6-Dinitrotoluene        | 9.998  | 165  | 29775    | 9.953  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene        | 9.998  | 165  | 30016    | 7.997  | ng    | # 21     |
| 63) Azobenzene                | 10.704 | 77   | 50723    | 3.348  | ng    | # 1      |
| 65) 4,6-Dinitro-2-methylph... | 10.786 | 198  | 344      | 5.590  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.786 | 248  | 10101    | 2.590  | ng    | # 1      |
| 71) Phenanthrene              | 11.510 | 178  | 43986    | 2.531  | ng    | 99       |
| 72) Anthracene                | 11.510 | 178  | 43986    | 2.482  | ng    | 98       |
| 75) Fluoranthene              | 12.698 | 202  | 120200   | 7.537  | ng    | 98       |
| 78) Pyrene                    | 12.928 | 202  | 149052   | 7.066  | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.116 | 228  | 102891   | 6.217  | ng    | # 70     |
| 83) Chrysene                  | 14.151 | 228  | 94295    | 6.338  | ng    | # 95     |
| 84) Bis(2-ethylhexyl)phtha... | 14.104 | 149  | 20886    | 2.136  | ng    | # 98     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.163 | 276  | 35926    | 3.030  | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.186 | 252  | 106998   | 10.415 | ng    | # 92     |
| 89) Benzo(k)fluoranthene      | 15.186 | 252  | 106998   | 11.671 | ng    | # 93     |
| 90) Benzo(a)pyrene            | 15.563 | 252  | 63188    | 6.676  | ng    | # 93     |
| 92) Benzo(g,h,i)perylene      | 17.627 | 276  | 37431    | 4.009  | ng    | 98       |
| -----                         |        |      |          |        |       |          |

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

Quant Time: Jul 22 13:57:39 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

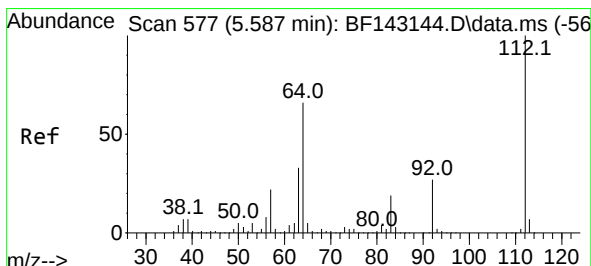
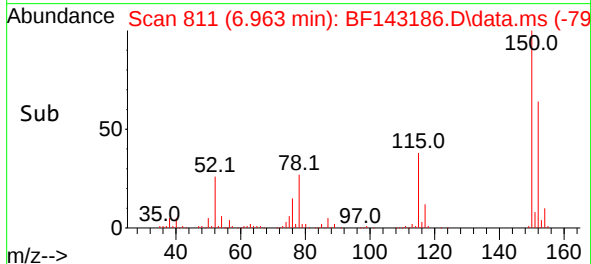
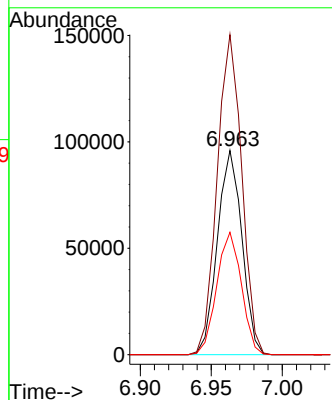
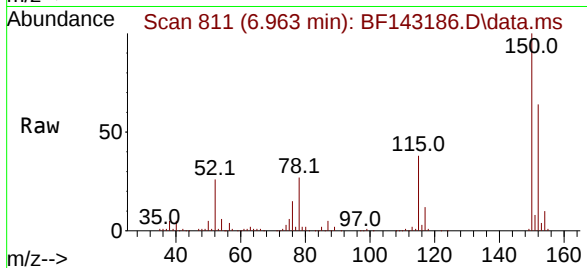




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.963 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

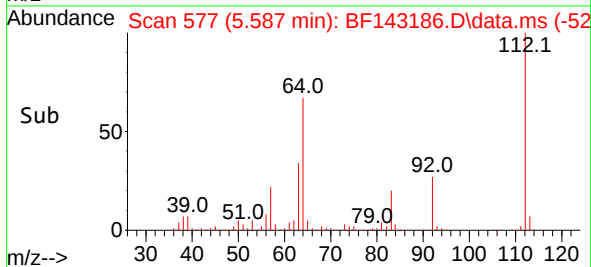
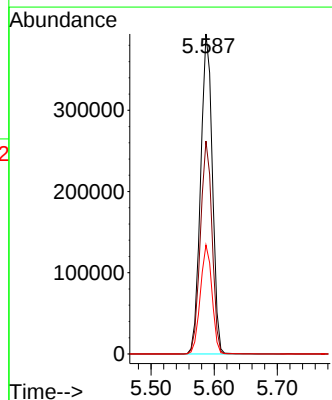
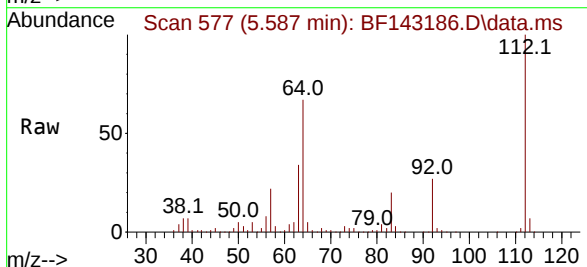
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-35-071725

Tgt Ion:152 Resp: 115140  
Ion Ratio Lower Upper  
152 100  
150 156.8 128.2 192.4  
115 60.0 47.9 71.9



#5  
2-Fluorophenol  
Concen: 70.144 ng  
RT: 5.587 min Scan# 577  
Delta R.T. 0.000 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

Tgt Ion:112 Resp: 510370  
Ion Ratio Lower Upper  
112 100  
64 66.6 53.1 79.7  
63 34.0 26.6 40.0

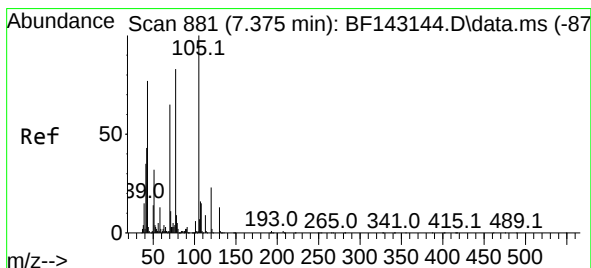
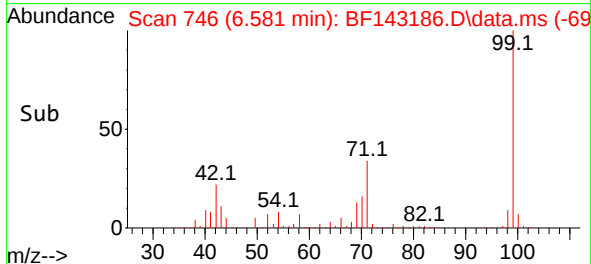
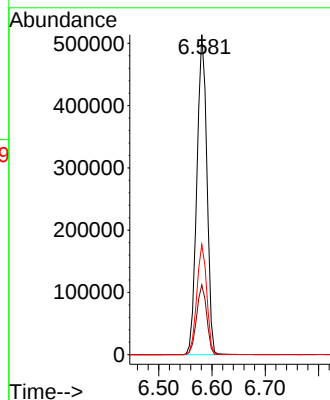
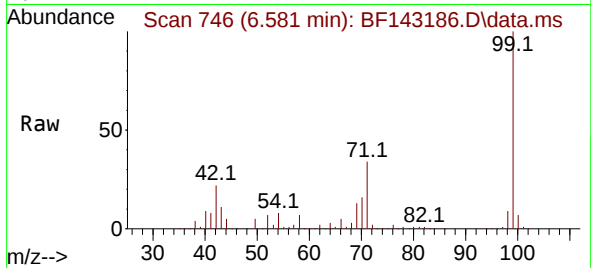




#7  
Phenol-d6  
Concen: 73.258 ng  
RT: 6.581 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

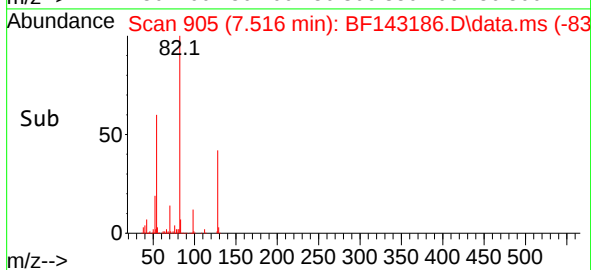
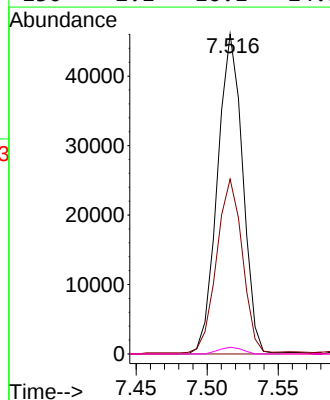
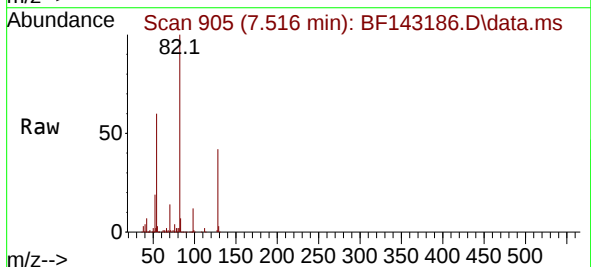
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-35-071725

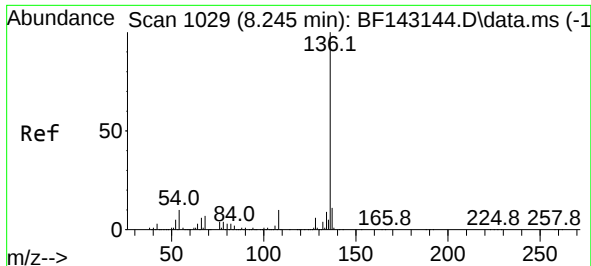
Tgt Ion: 99 Resp: 670908  
Ion Ratio Lower Upper  
99 100  
42 21.8 17.0 25.6  
71 34.4 27.7 41.5



#19  
n-Nitroso-di-n-propylamine  
Concen: 9.698 ng  
RT: 7.516 min Scan# 905  
Delta R.T. 0.141 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

Tgt Ion: 70 Resp: 56984  
Ion Ratio Lower Upper  
70 100  
42 54.7 52.5 78.7  
101 0.0 7.6 11.4#  
130 2.1 16.1 24.1#

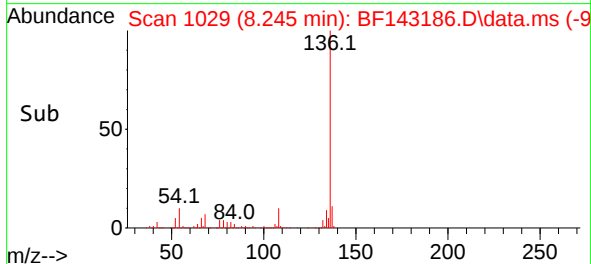
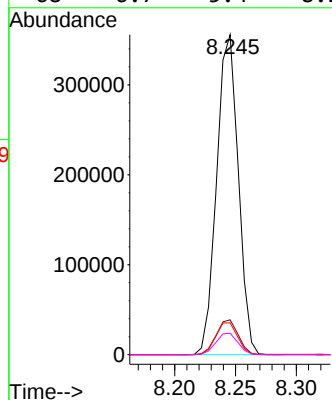
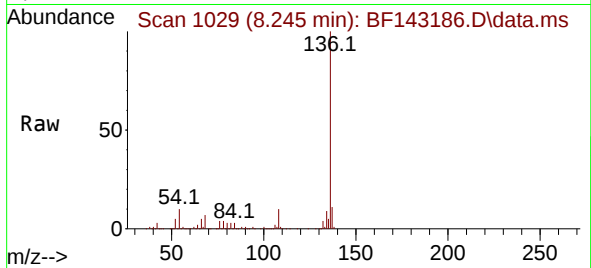




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.245 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

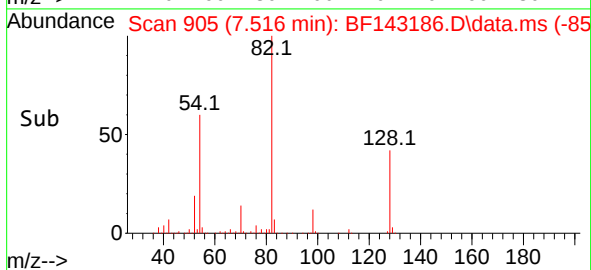
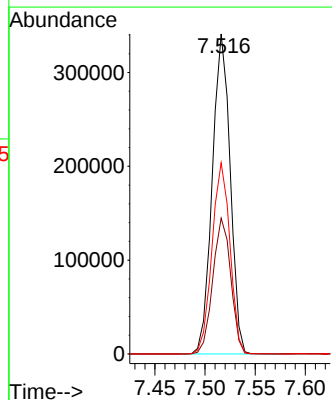
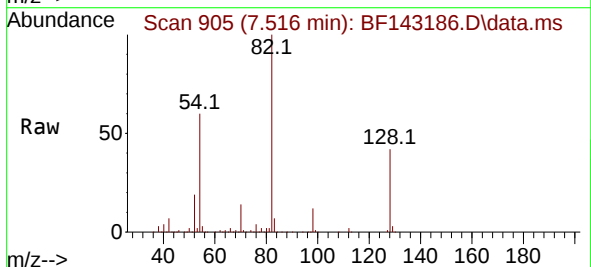
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-35-071725

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 440411 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.6   | 13.0   |
| 54       | 10.0  | 8.2   | 12.2   |
| 68       | 6.7   | 5.4   | 8.2    |



#23  
Nitrobenzene-d5  
Concen: 48.018 ng  
RT: 7.516 min Scan# 905  
Delta R.T. -0.006 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 424247 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.4  | 33.6  | 50.4   |
| 54       | 59.8  | 47.1  | 70.7   |

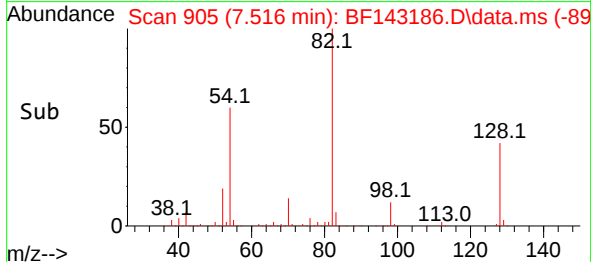
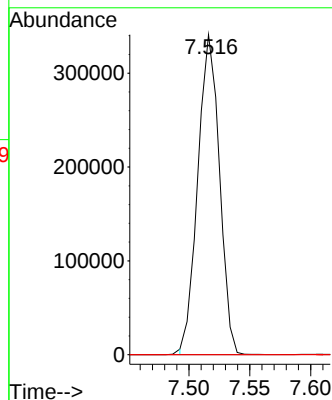
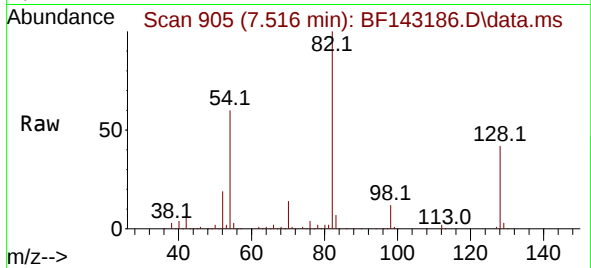




#25  
Isophorone  
Concen: 26.995 ng  
RT: 7.516 min Scan# 90  
Delta R.T. -0.264 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

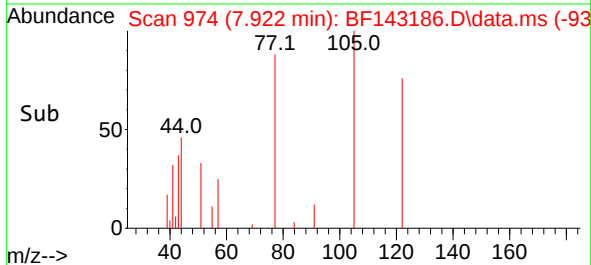
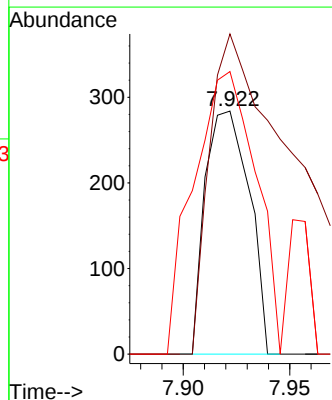
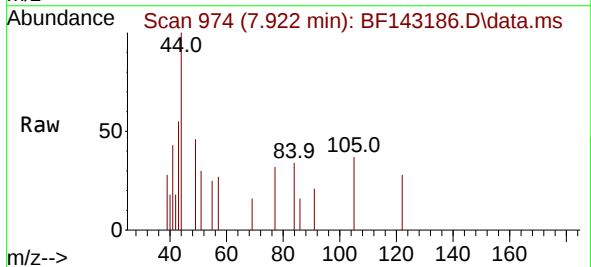
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-35-071725

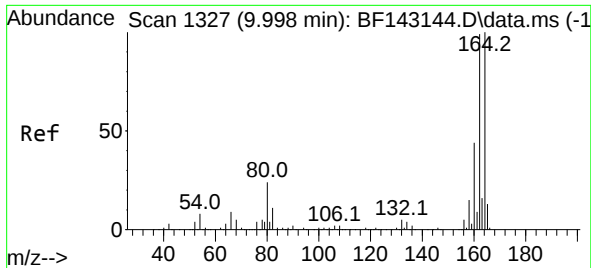
Tgt Ion: 82 Resp: 421050  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.5 8.3#  
138 0.0 13.8 20.8#



#32  
Benzoic acid  
Concen: 5.267 ng  
RT: 7.922 min Scan# 974  
Delta R.T. -0.070 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

Tgt Ion:122 Resp: 408  
Ion Ratio Lower Upper  
122 100  
105 131.7 104.8 144.8  
77 116.2 77.6 117.6

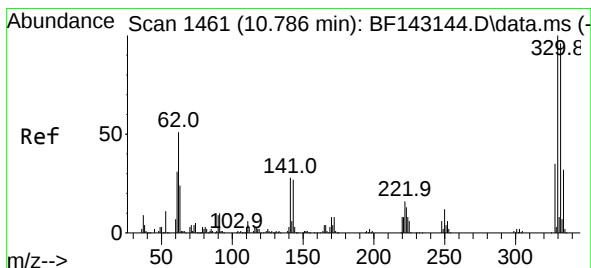
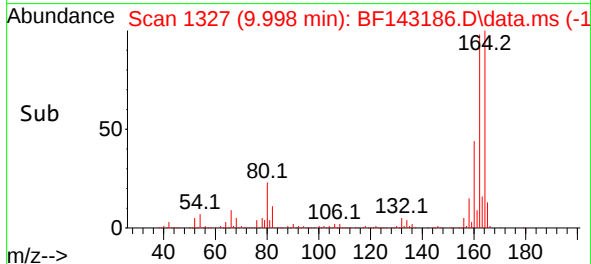
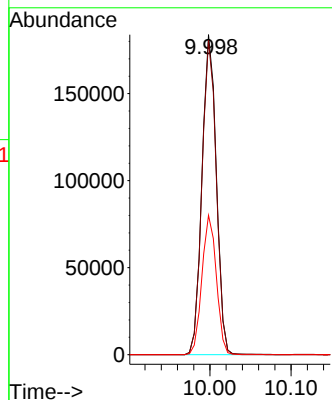
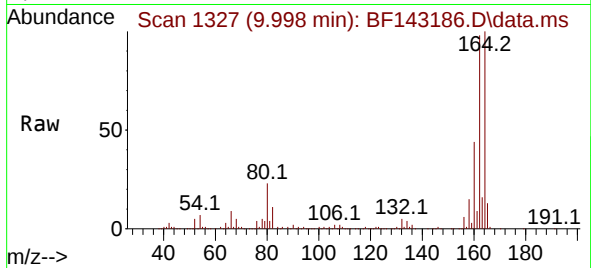




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.998 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

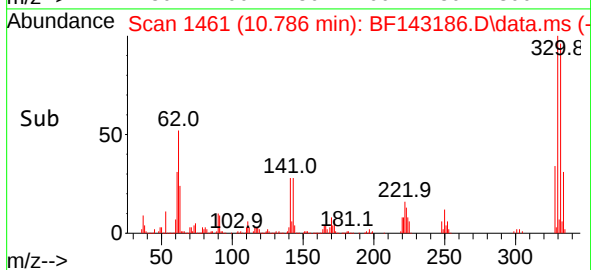
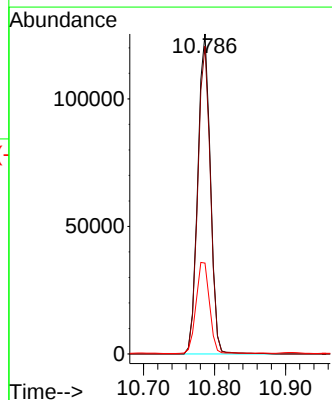
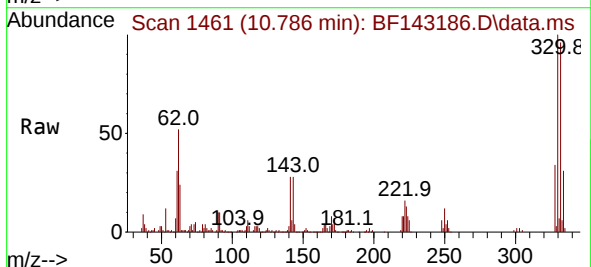
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-35-071725

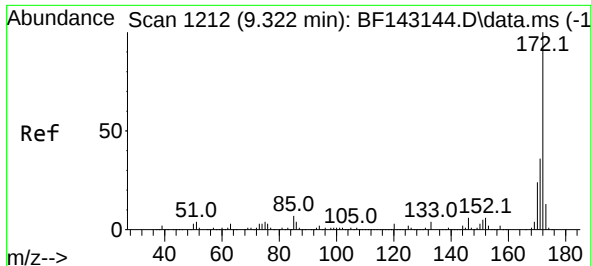
Tgt Ion:164 Resp: 225605  
Ion Ratio Lower Upper  
164 100  
162 98.2 79.0 118.6  
160 43.6 35.1 52.7



#42  
2,4,6-Tribromophenol  
Concen: 66.675 ng  
RT: 10.786 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

Tgt Ion:330 Resp: 155394  
Ion Ratio Lower Upper  
330 100  
332 96.1 76.7 115.1  
141 30.3 23.3 34.9





#45

2-Fluorobiphenyl

Concen: 46.856 ng

RT: 9.316 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-35-071725

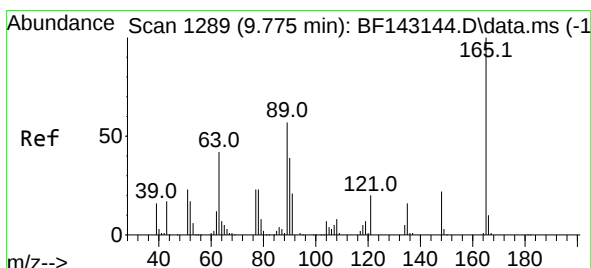
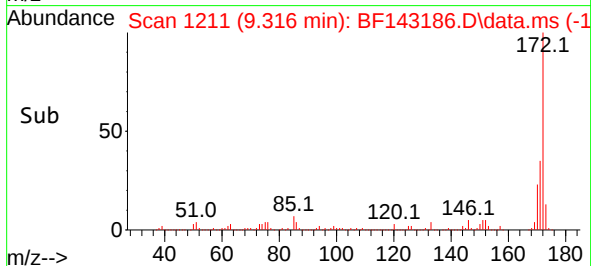
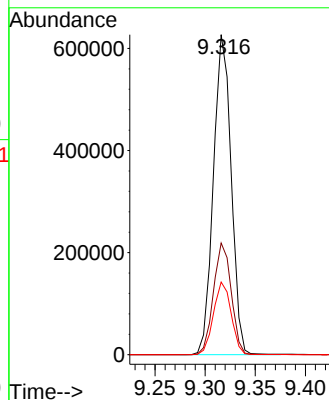
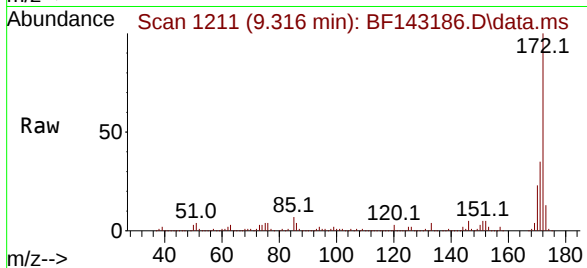
Tgt Ion:172 Resp: 772947

Ion Ratio Lower Upper

172 100

171 34.9 28.6 42.8

170 22.7 18.8 28.2



#51

2,6-Dinitrotoluene

Concen: 9.953 ng

RT: 9.998 min Scan# 1327

Delta R.T. 0.224 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

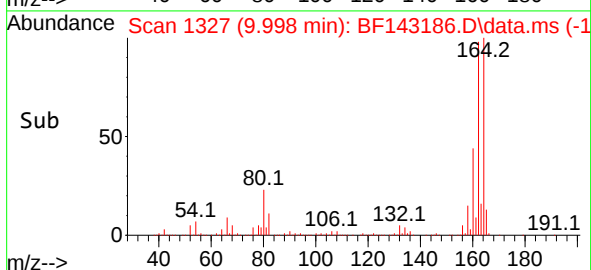
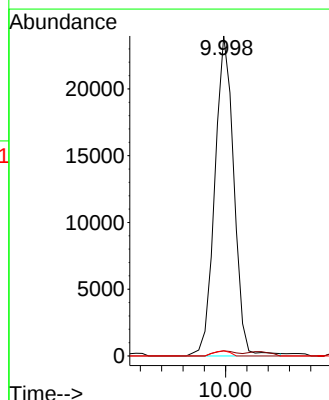
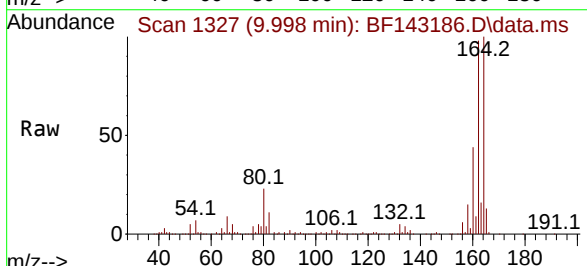
Tgt Ion:165 Resp: 29775

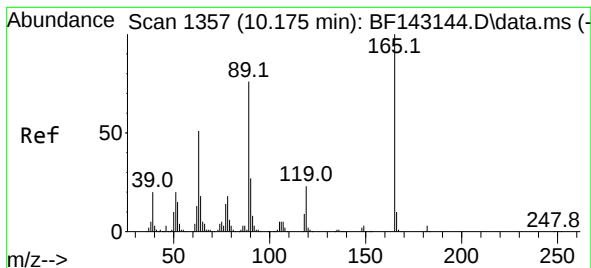
Ion Ratio Lower Upper

165 100

63 1.6 49.4 74.2#

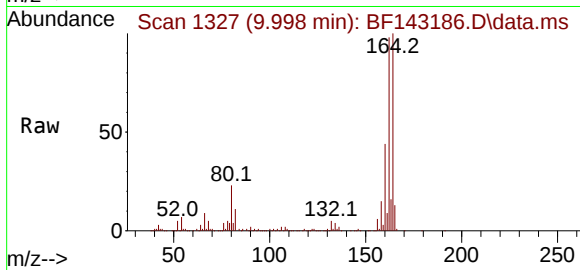
89 1.6 46.2 69.2#



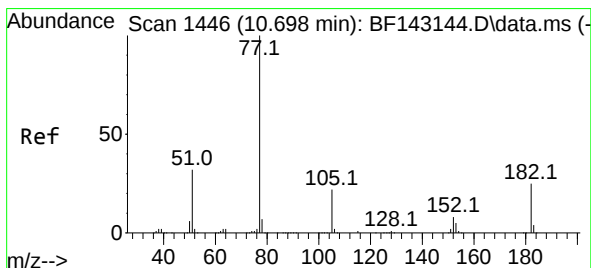
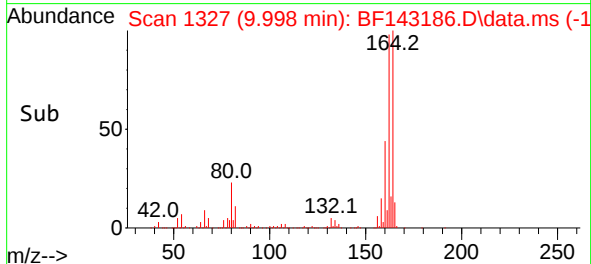
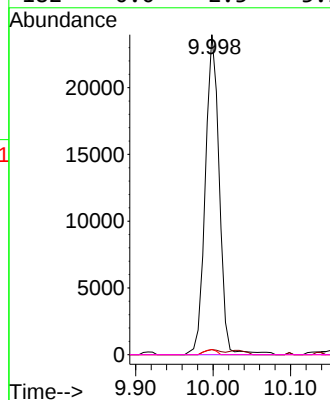


#57  
2,4-Dinitrotoluene  
Concen: 7.997 ng  
RT: 9.998 min Scan# 11  
Delta R.T. -0.176 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-35-071725

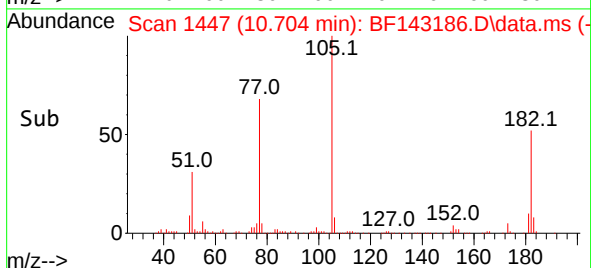
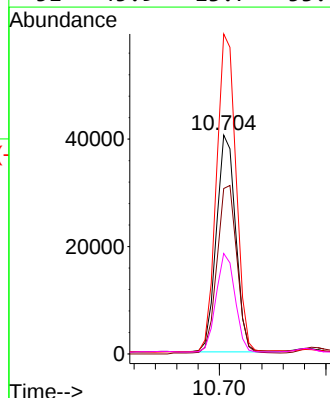
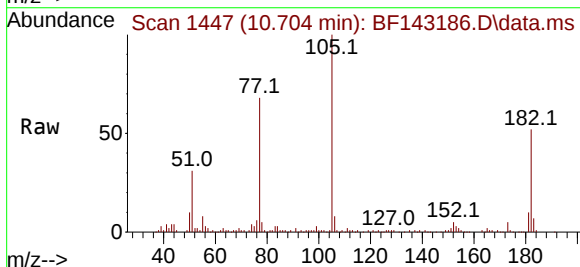


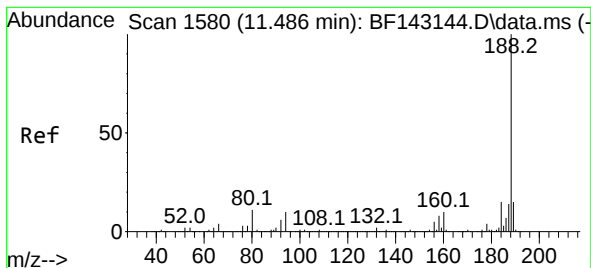
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Ion Ratio Lower Upper  
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63 1.6 41.0 61.4#  
89 1.6 61.1 91.7#  
182 0.0 2.3 3.5#



#63  
Azobenzene  
Concen: 3.348 ng  
RT: 10.704 min Scan# 1447  
Delta R.T. 0.006 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

Tgt Ion: 77 Resp: 50723  
Ion Ratio Lower Upper  
77 100  
182 75.6 4.6 44.6#  
105 146.2 1.4 41.4#  
51 45.9 13.7 53.7

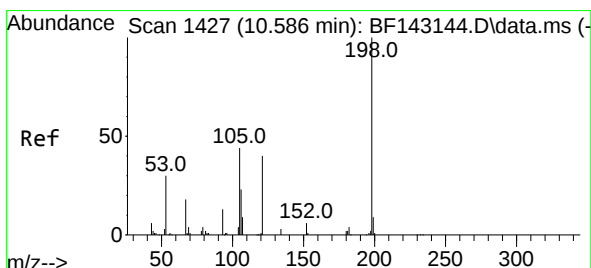
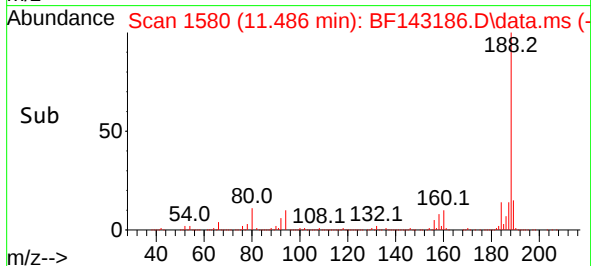
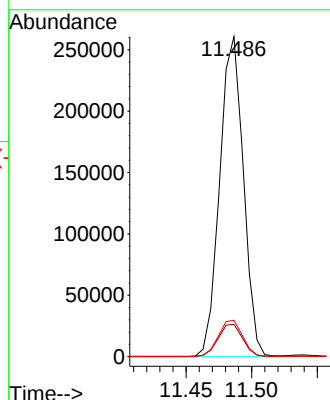
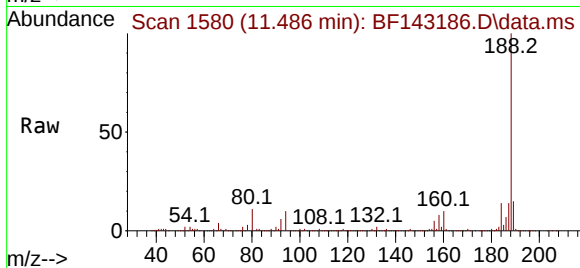




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.486 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

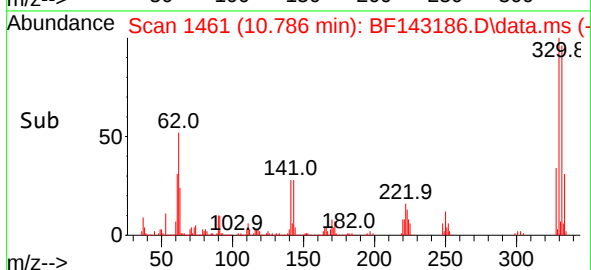
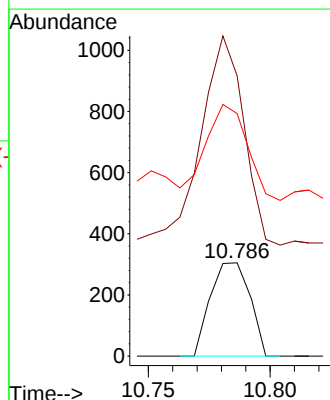
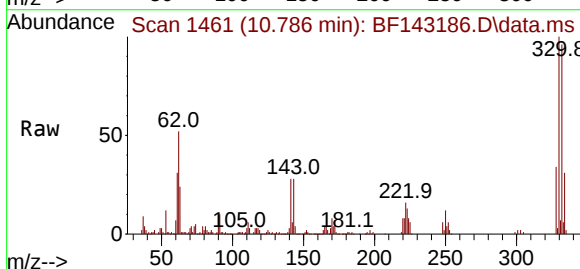
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-35-071725

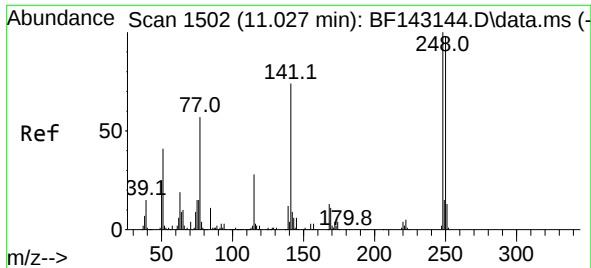
Tgt Ion:188 Resp: 327250  
Ion Ratio Lower Upper  
188 100  
94 10.1 8.3 12.5  
80 11.3 9.0 13.6



#65  
4,6-Dinitro-2-methylphenol  
Concen: 5.590 ng  
RT: 10.786 min Scan# 1461  
Delta R.T. 0.200 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

Tgt Ion:198 Resp: 344  
Ion Ratio Lower Upper  
198 100  
51 300.3 37.2 77.2#  
105 260.0 24.8 64.8#

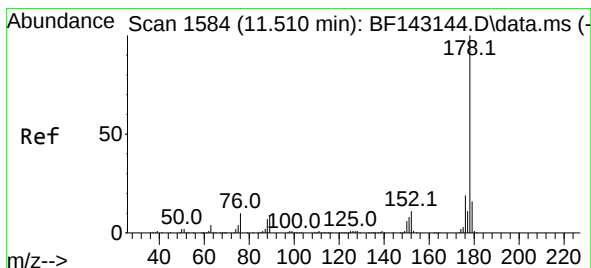
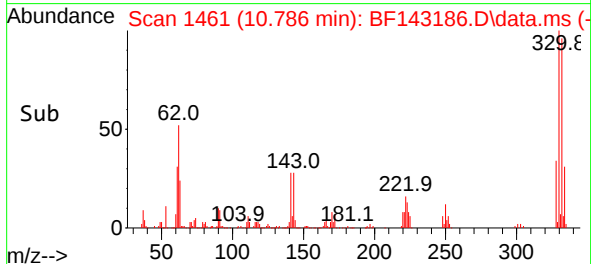
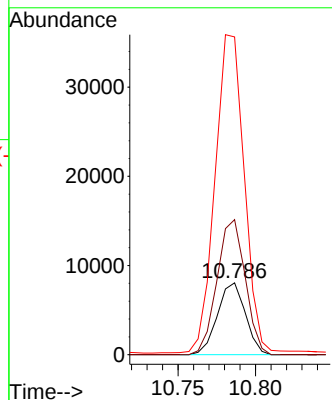
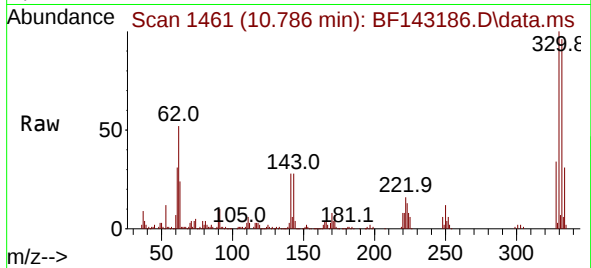




#67  
4-Bromophenyl-phenylether  
Concen: 2.590 ng  
RT: 10.786 min Scan# 1461  
Delta R.T. -0.241 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

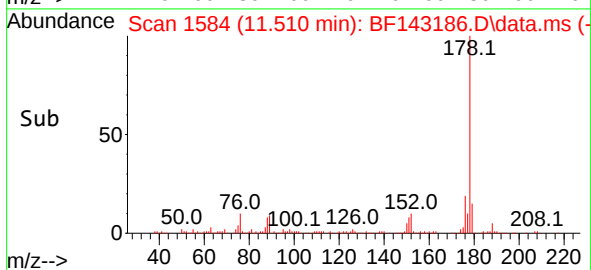
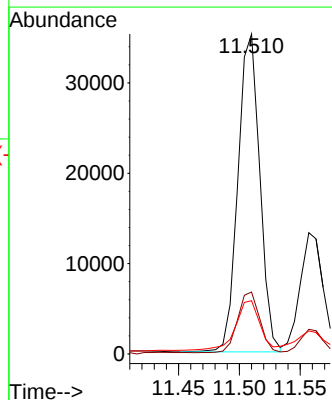
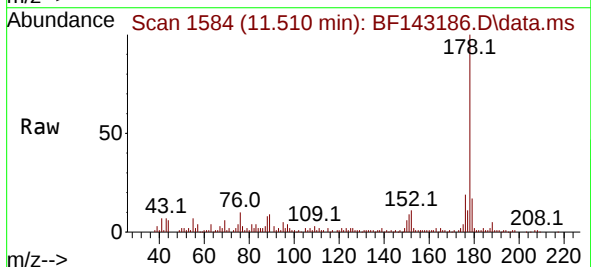
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-35-071725

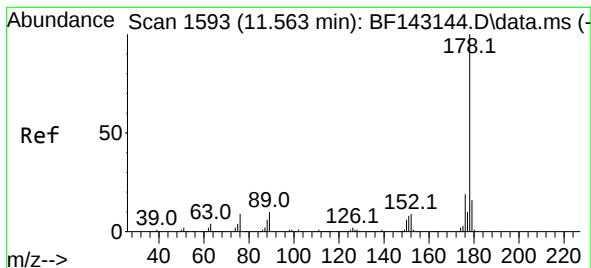
Tgt Ion:248 Resp: 10101  
Ion Ratio Lower Upper  
248 100  
250 188.3 78.3 117.5#  
141 442.7 59.2 88.8#



#71  
Phenanthrene  
Concen: 2.531 ng  
RT: 11.510 min Scan# 1584  
Delta R.T. 0.000 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

Tgt Ion:178 Resp: 43986  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.3 22.9  
179 16.7 12.5 18.7





#72

Anthracene

Concen: 2.482 ng

RT: 11.510 min Scan# 1584

Delta R.T. -0.053 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-35-071725

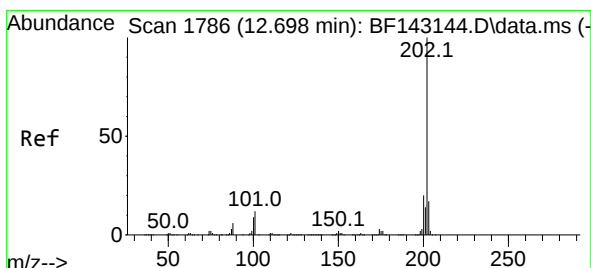
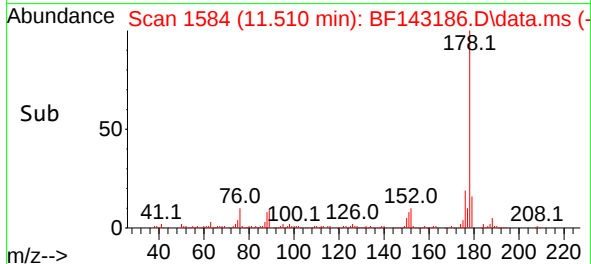
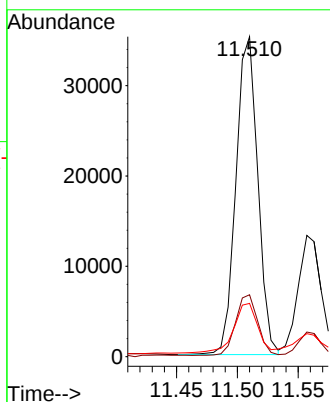
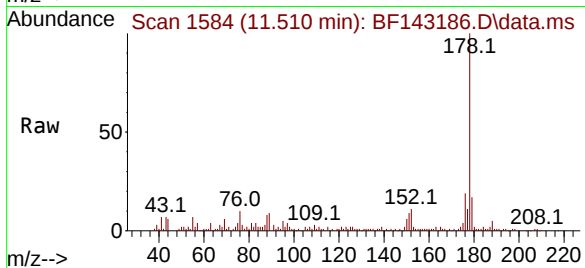
Tgt Ion:178 Resp: 43986

Ion Ratio Lower Upper

178 100

176 19.4 15.0 22.4

179 16.7 12.5 18.7



#75

Fluoranthene

Concen: 7.537 ng

RT: 12.698 min Scan# 1786

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

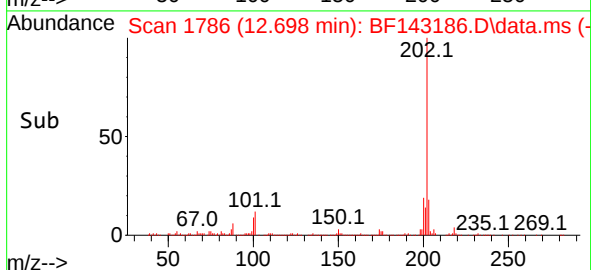
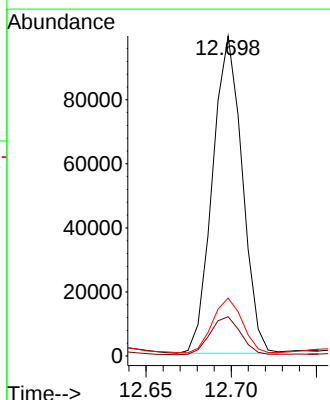
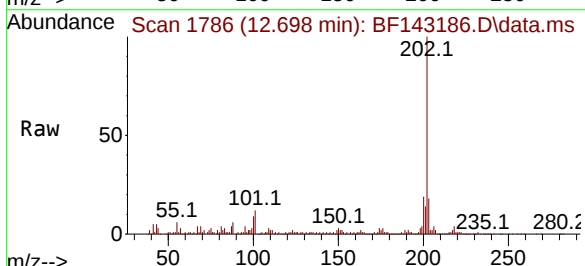
Tgt Ion:202 Resp: 120200

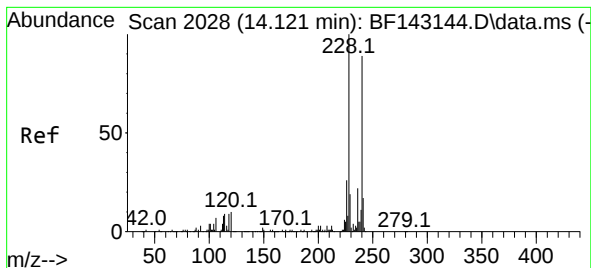
Ion Ratio Lower Upper

202 100

101 12.3 0.0 31.7

203 18.1 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.122 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-35-071725

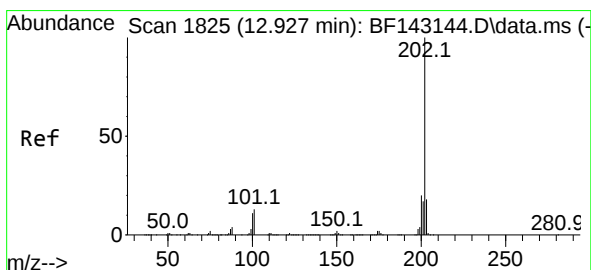
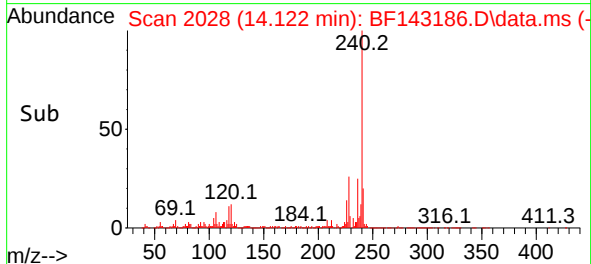
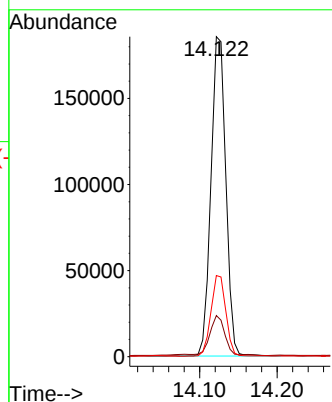
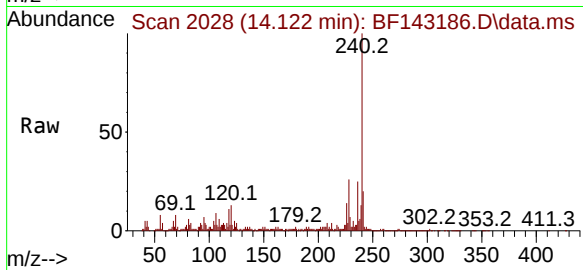
Tgt Ion:240 Resp: 247179

Ion Ratio Lower Upper

240 100

120 12.9 9.4 14.2

236 25.4 20.2 30.4



#78

Pyrene

Concen: 7.066 ng

RT: 12.928 min Scan# 1825

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

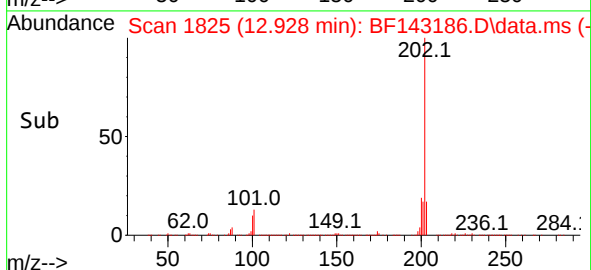
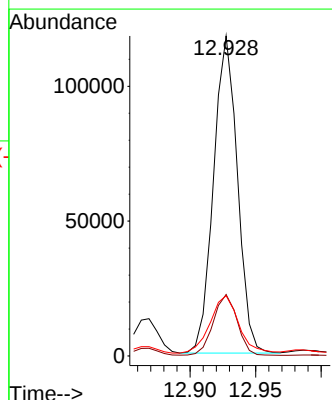
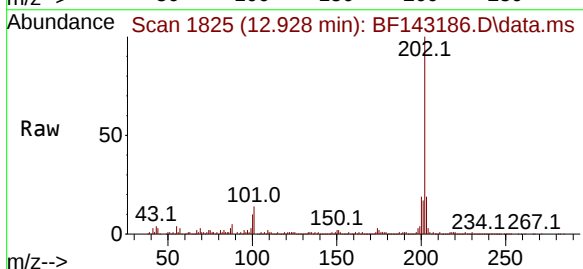
Tgt Ion:202 Resp: 149052

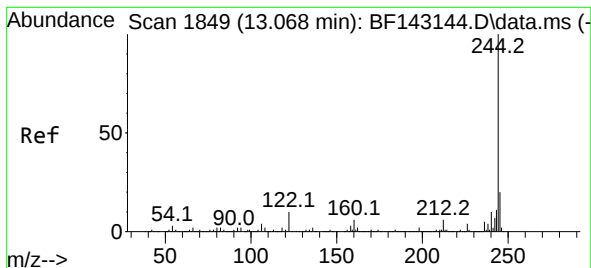
Ion Ratio Lower Upper

202 100

200 19.2 15.7 23.5

203 18.9 14.2 21.2





#79

Terphenyl-d14

Concen: 37.104 ng

RT: 13.069 min Scan# 1849

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-35-071725

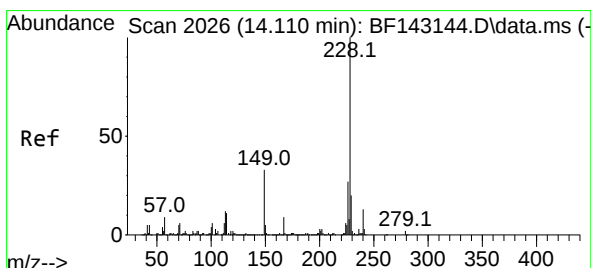
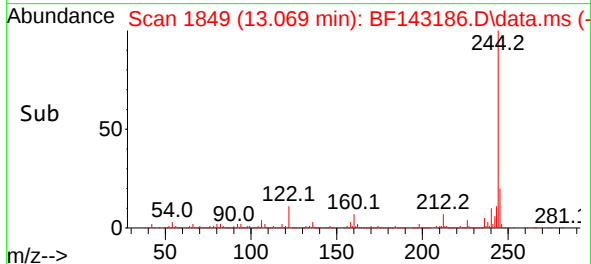
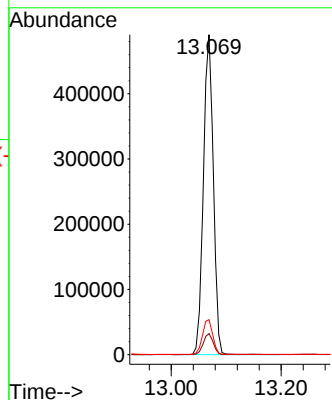
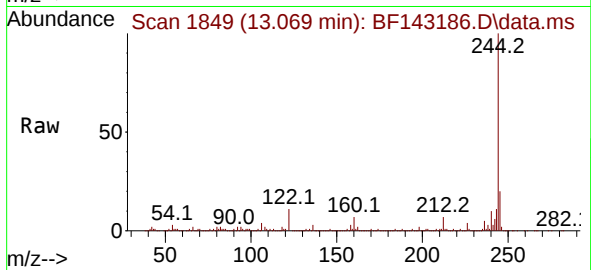
Tgt Ion:244 Resp: 616315

Ion Ratio Lower Upper

244 100

212 6.6 5.2 7.8

122 10.9 8.2 12.2



#81

Benzo(a)anthracene

Concen: 6.217 ng

RT: 14.116 min Scan# 2027

Delta R.T. 0.006 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

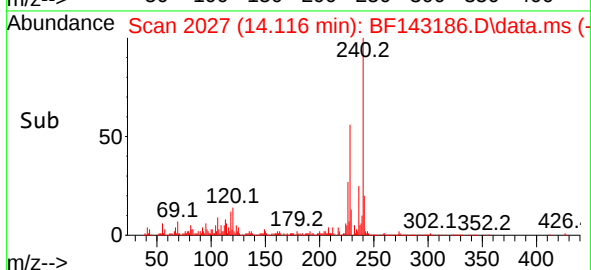
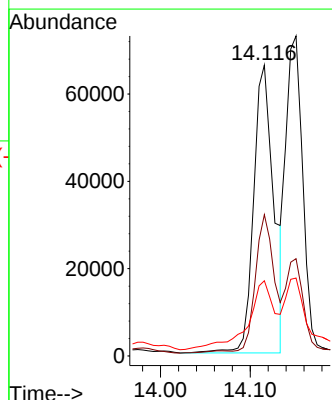
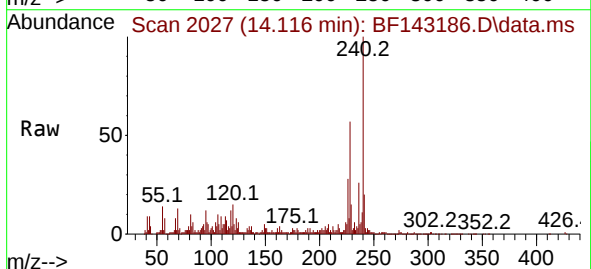
Tgt Ion:228 Resp: 102891

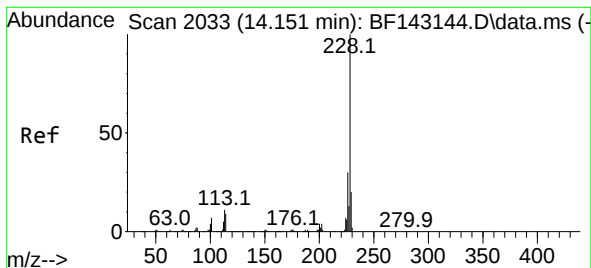
Ion Ratio Lower Upper

228 100

226 48.6 21.7 32.5#

229 25.9 15.8 23.6#





#83

Chrysene

Concen: 6.338 ng

RT: 14.151 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-35-071725

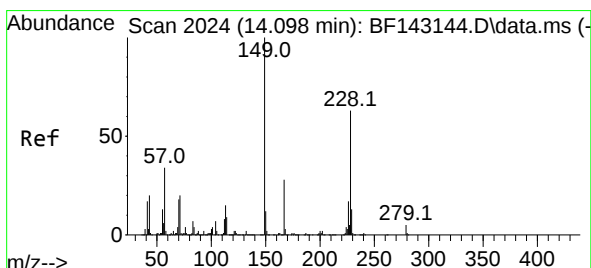
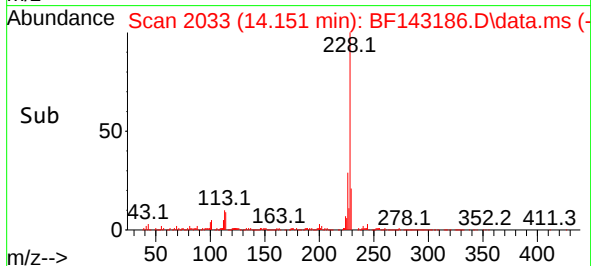
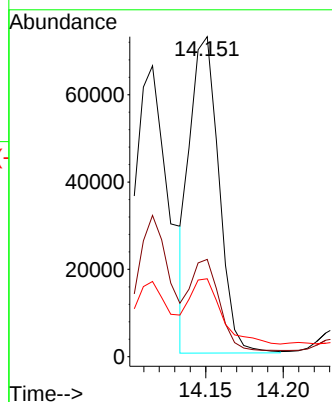
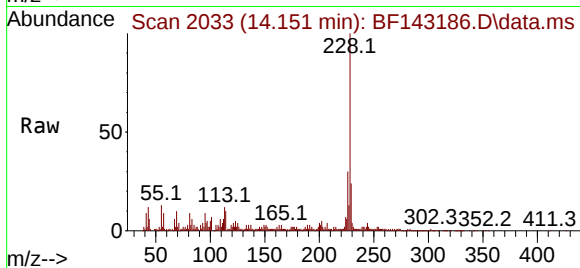
Tgt Ion:228 Resp: 94295

Ion Ratio Lower Upper

228 100

226 30.4 23.8 35.8

229 24.3 15.6 23.4#



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.136 ng

RT: 14.104 min Scan# 2025

Delta R.T. 0.006 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

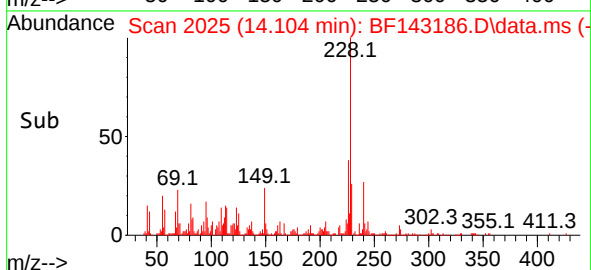
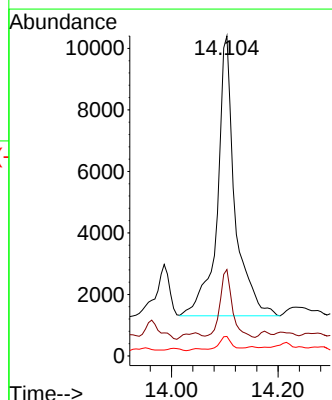
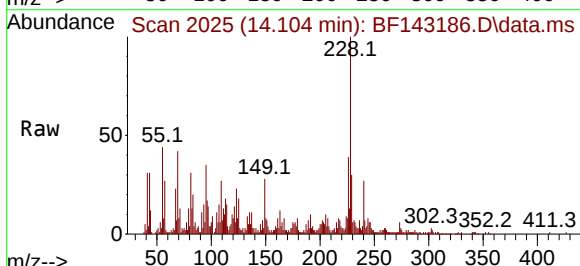
Tgt Ion:149 Resp: 20886

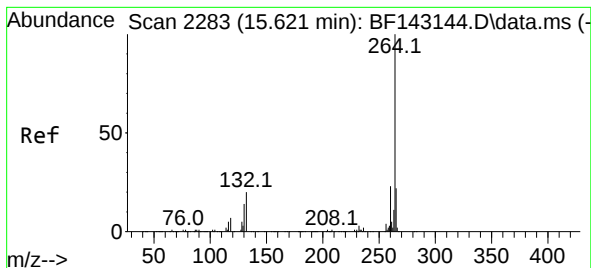
Ion Ratio Lower Upper

149 100

167 27.0 22.3 33.5

279 6.1 3.6 5.4#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.633 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-35-071725

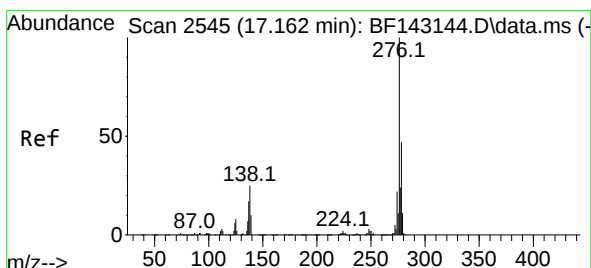
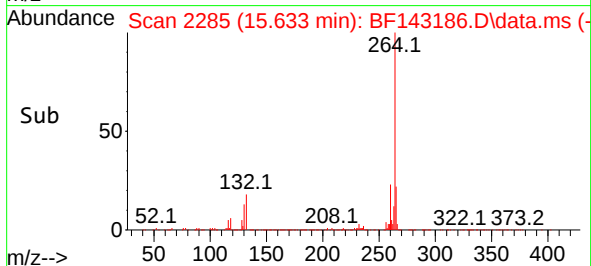
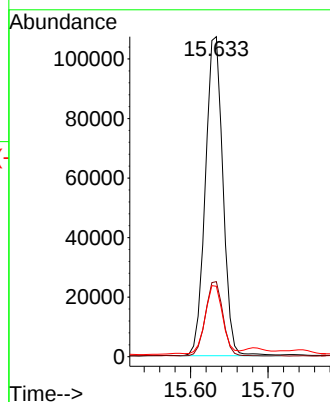
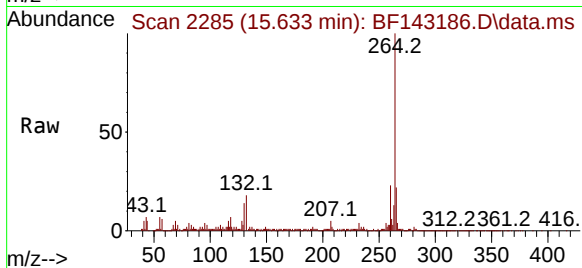
Tgt Ion:264 Resp: 168171

Ion Ratio Lower Upper

264 100

260 23.5 18.5 27.7

265 22.0 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.030 ng

RT: 17.163 min Scan# 2545

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

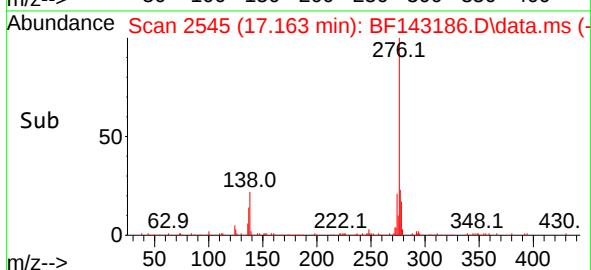
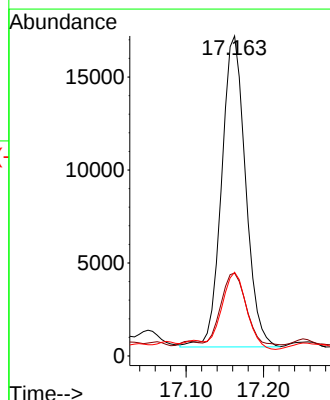
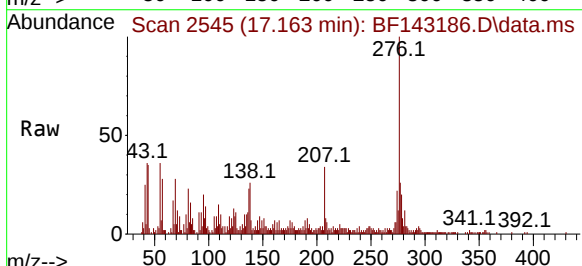
Tgt Ion:276 Resp: 35926

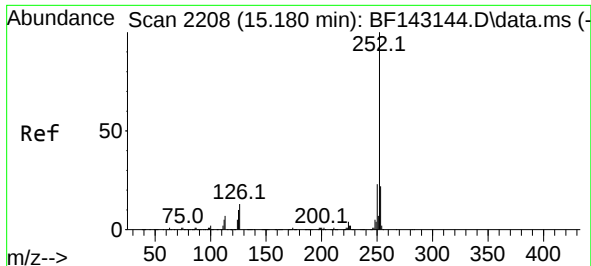
Ion Ratio Lower Upper

276 100

138 23.9 21.8 32.6

277 25.7 20.0 30.0

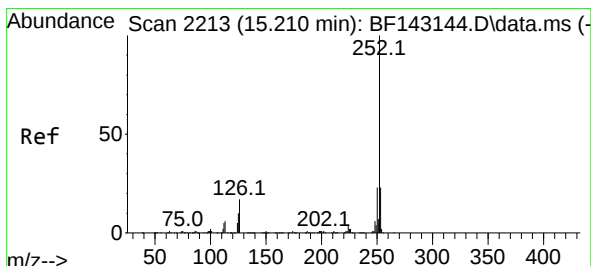
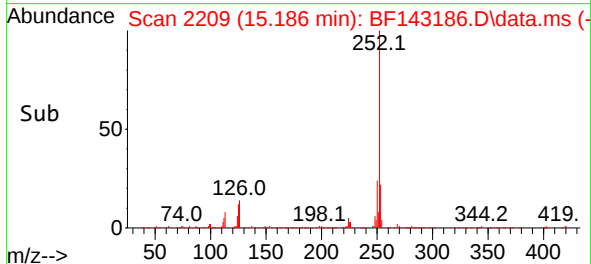
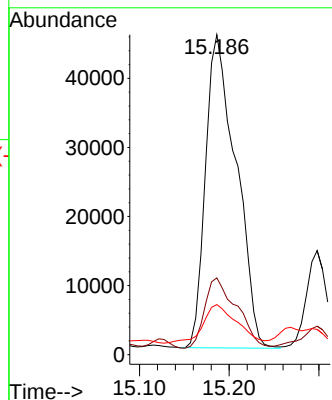
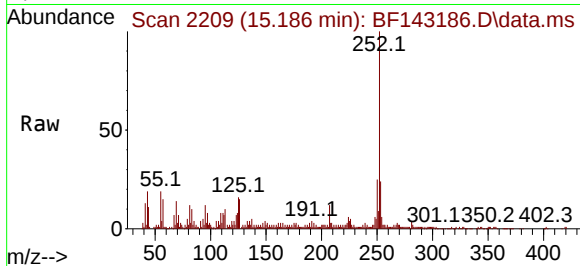




#88  
Benzo(b)fluoranthene  
Concen: 10.415 ng  
RT: 15.186 min Scan# 2209  
Delta R.T. 0.006 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

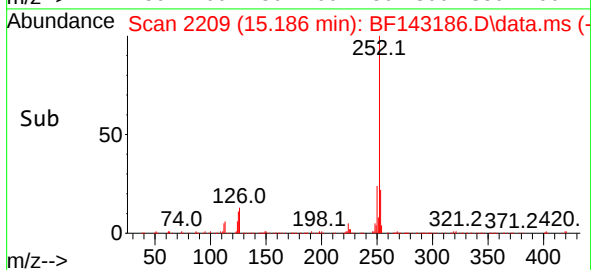
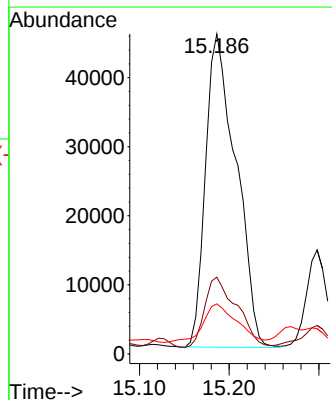
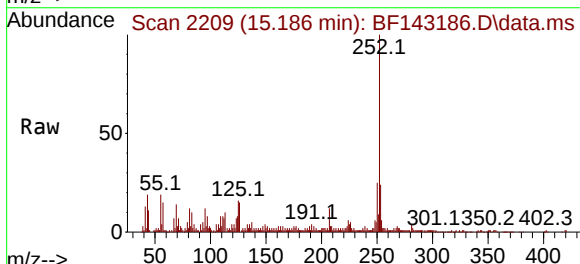
Instrument :  
BNA\_F  
ClientSampleId :  
OU4-TS-35-071725

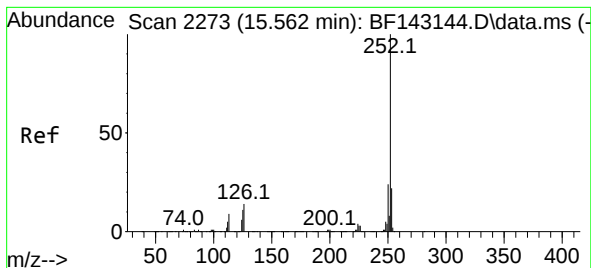
Tgt Ion:252 Resp: 106998  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.5 26.3  
125 15.6 8.0 12.0#



#89  
Benzo(k)fluoranthene  
Concen: 11.671 ng  
RT: 15.186 min Scan# 2209  
Delta R.T. -0.023 min  
Lab File: BF143186.D  
Acq: 22 Jul 2025 13:21

Tgt Ion:252 Resp: 106998  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.8 26.6  
125 15.6 8.1 12.1#





#90

Benzo(a)pyrene

Concen: 6.676 ng

RT: 15.563 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Instrument :

BNA\_F

ClientSampleId :

OU4-TS-35-071725

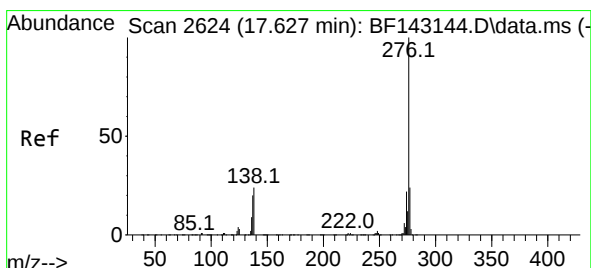
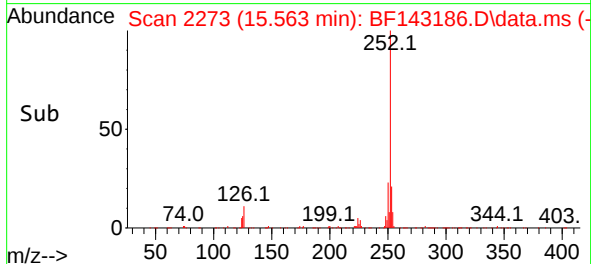
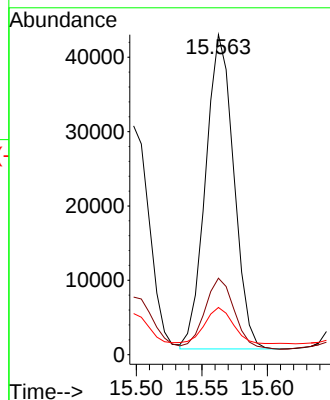
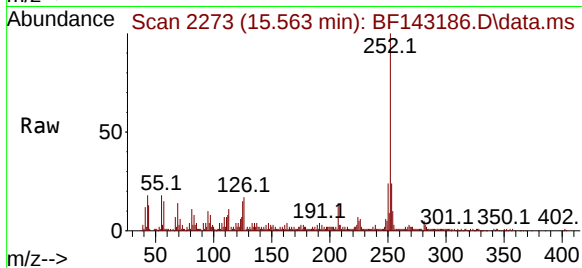
Tgt Ion:252 Resp: 63188

Ion Ratio Lower Upper

252 100

253 23.9 17.3 25.9

125 14.7 8.6 13.0#



#92

Benzo(g,h,i)perylene

Concen: 4.009 ng

RT: 17.627 min Scan# 2624

Delta R.T. 0.000 min

Lab File: BF143186.D

Acq: 22 Jul 2025 13:21

Tgt Ion:276 Resp: 37431

Ion Ratio Lower Upper

276 100

277 24.8 19.1 28.7

138 25.2 18.9 28.3

