

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF062424\  
 Data File : BF138315.D  
 Acq On : 24 Jun 2024 17:43  
 Operator : CG\JU  
 Sample : P2847-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BKG-1

Quant Time: Jun 24 18:23:29 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061224.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 13 01:52:47 2024  
 Response via : Initial Calibration

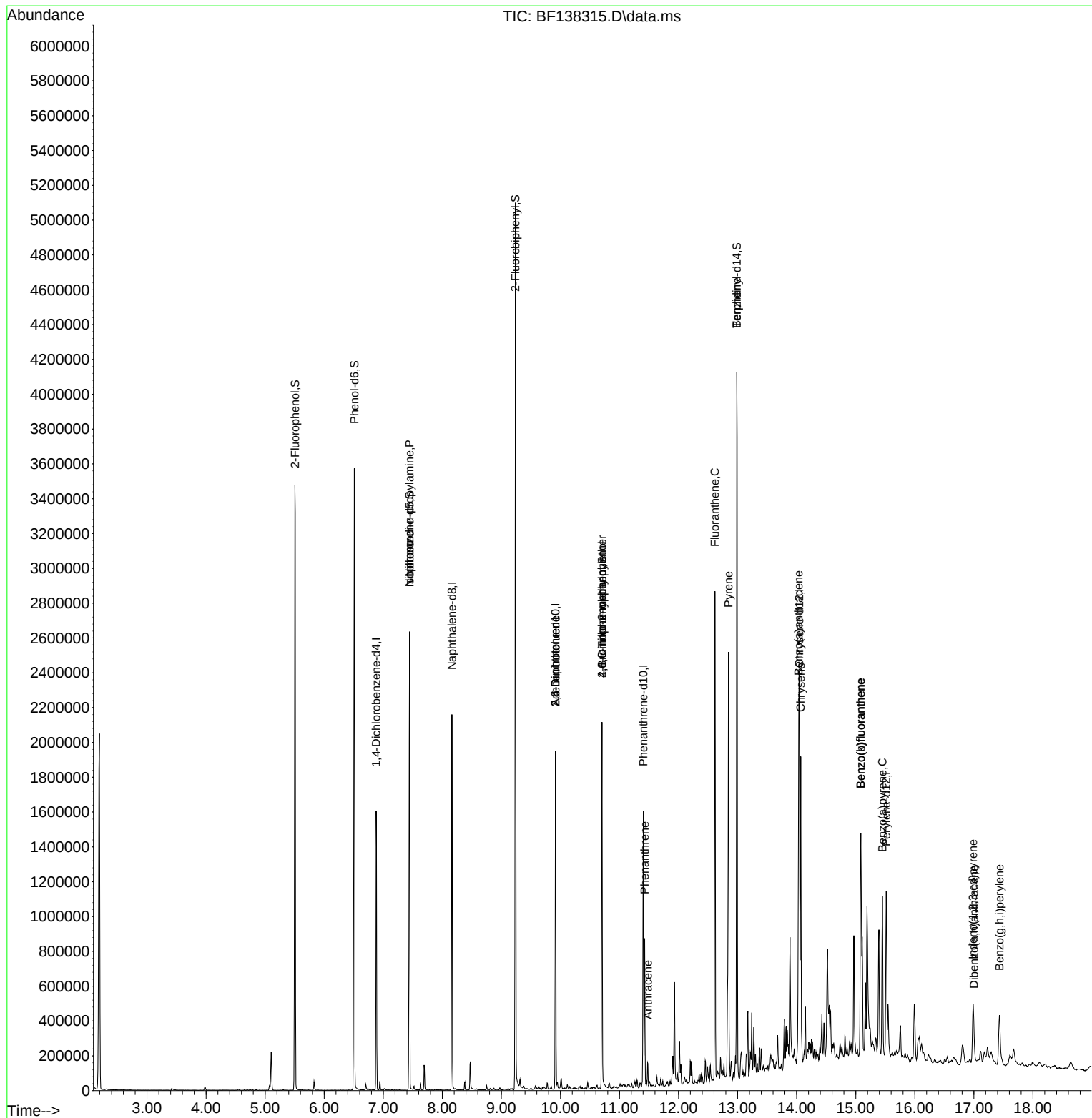
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.881  | 152  | 237660   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.163  | 136  | 846448   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.916  | 164  | 393565   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.404 | 188  | 546434   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12              | 14.045 | 240  | 550154   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.515 | 264  | 448499   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.510  | 112  | 1068776  | 75.228 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.510  | 99   | 1266566  | 70.306 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.445  | 82   | 792090   | 54.478 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.704 | 330  | 257599   | 65.747 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.239  | 172  | 1483283  | 59.930 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.986 | 244  | 1464793  | 42.170 | ng    | -0.01    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.445  | 70   | 102847   | 9.631  | ng    | # 76     |
| 25) Isophorone                | 7.445  | 82   | 790949   | 30.075 | ng    | # 62     |
| 51) 2,6-Dinitrotoluene        | 9.916  | 165  | 51289    | 9.804  | ng    | # 25     |
| 57) 2,4-Dinitrotoluene        | 9.916  | 165  | 51289    | 7.949  | ng    | # 31     |
| 65) 4,6-Dinitro-2-methylph... | 10.704 | 198  | 562      | 7.107  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.704 | 248  | 16046    | 2.606  | ng    | # 1      |
| 71) Phenanthrene              | 11.427 | 178  | 280009   | 10.362 | ng    | 97       |
| 72) Anthracene                | 11.480 | 178  | 53810    | 2.006  | ng    | 97       |
| 75) Fluoranthene              | 12.616 | 202  | 1042908  | 37.847 | ng    | 98       |
| 77) Benzidine                 | 12.986 | 184  | 18158    | 2.853  | ng    | # 93     |
| 78) Pyrene                    | 12.845 | 202  | 946524   | 19.946 | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.033 | 228  | 567330   | 16.074 | ng    | 99       |
| 83) Chrysene                  | 14.069 | 228  | 651885   | 19.377 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.986 | 276  | 241338   | 8.254  | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.086 | 252  | 996142   | 37.663 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.086 | 252  | 996142   | 38.431 | ng    | 98       |
| 90) Benzo(a)pyrene            | 15.451 | 252  | 441754   | 19.442 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.004 | 278  | 60767    | 2.532  | ng    | 93       |
| 92) Benzo(g,h,i)perylene      | 17.433 | 276  | 244496   | 9.848  | ng    | 99       |
| -----                         |        |      |          |        |       |          |

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

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BNA\_F  
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BKG-1

Quant Time: Jun 24 18:23:29 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061224.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 13 01:52:47 2024  
Response via : Initial Calibration

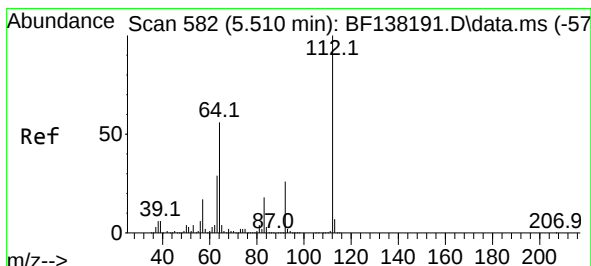
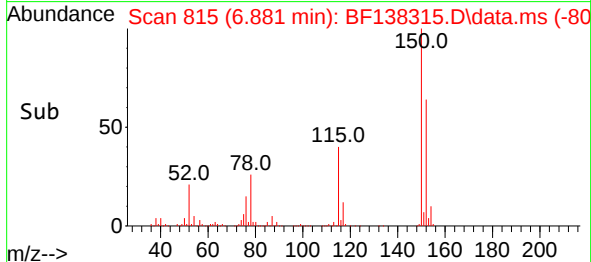
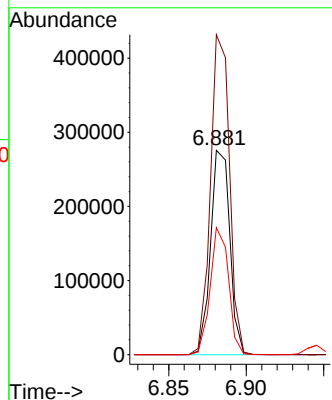
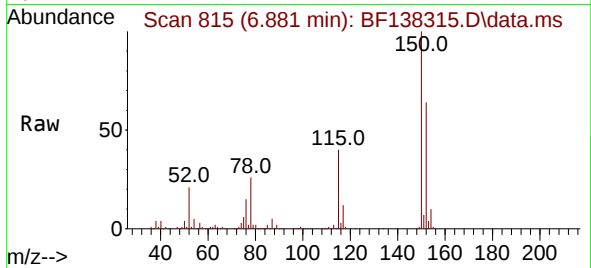




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.881 min Scan# 815  
 Delta R.T. -0.012 min  
 Lab File: BF138315.D  
 Acq: 24 Jun 2024 17:43

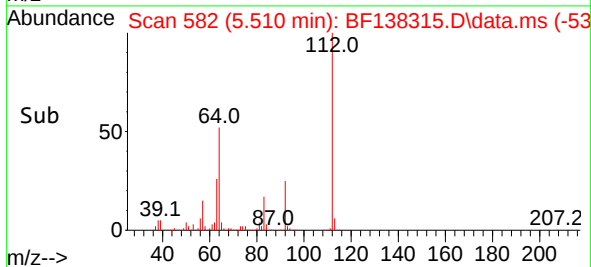
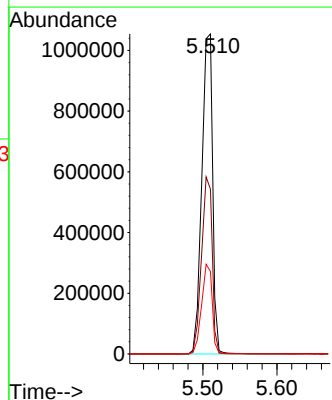
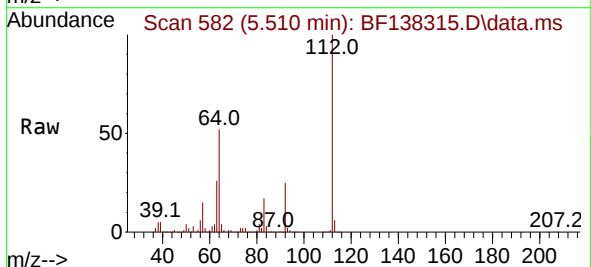
Instrument :  
 BNA\_F  
 ClientSampleId :  
 BKG-1

Tgt Ion:152 Resp: 237660  
 Ion Ratio Lower Upper  
 152 100  
 150 156.4 125.0 187.4  
 115 62.1 48.4 72.6



#5  
 2-Fluorophenol  
 Concen: 75.228 ng  
 RT: 5.510 min Scan# 582  
 Delta R.T. -0.000 min  
 Lab File: BF138315.D  
 Acq: 24 Jun 2024 17:43

Tgt Ion:112 Resp: 1068776  
 Ion Ratio Lower Upper  
 112 100  
 64 51.5 45.2 67.8  
 63 25.8 22.9 34.3

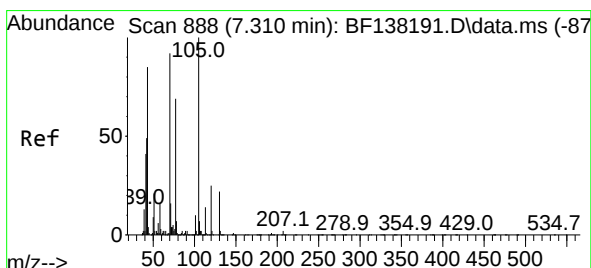
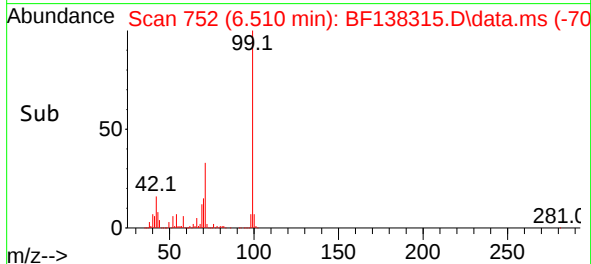
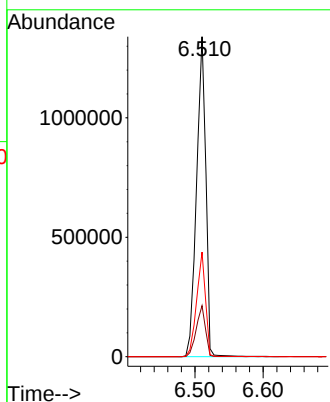
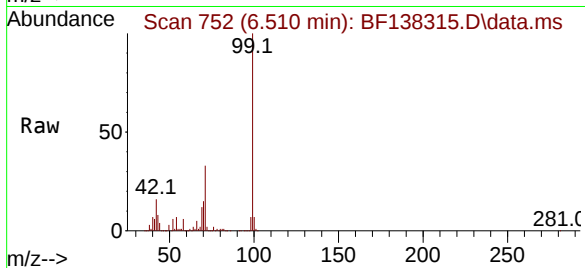




#7  
Phenol-d6  
Concen: 70.306 ng  
RT: 6.510 min Scan# 710  
Delta R.T. -0.012 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

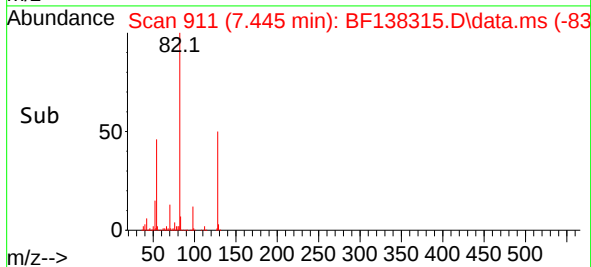
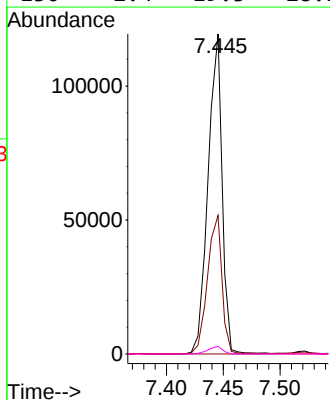
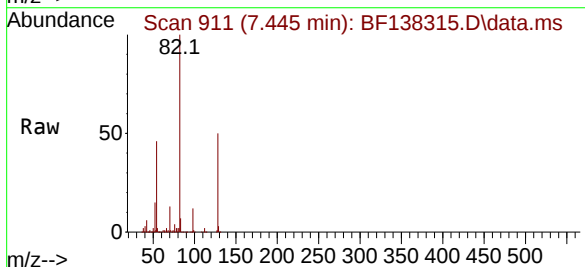
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BNA\_F  
ClientSampleId :  
BKG-1

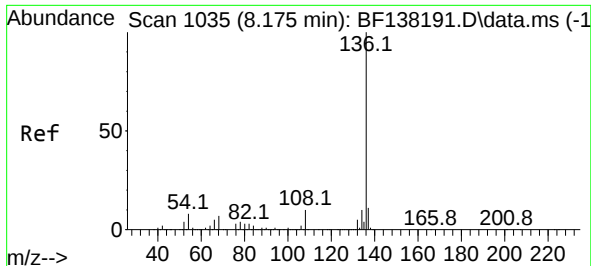
Tgt Ion: 99 Resp: 1266566  
Ion Ratio Lower Upper  
99 100  
42 16.0 13.7 20.5  
71 32.7 25.0 37.6



#19  
n-Nitroso-di-n-propylamine  
Concen: 9.631 ng  
RT: 7.445 min Scan# 911  
Delta R.T. 0.135 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

Tgt Ion: 70 Resp: 102847  
Ion Ratio Lower Upper  
70 100  
42 43.3 42.8 64.2  
101 0.0 8.4 12.6#  
130 2.4 19.3 28.9#

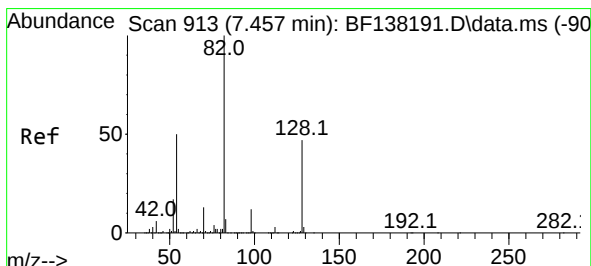
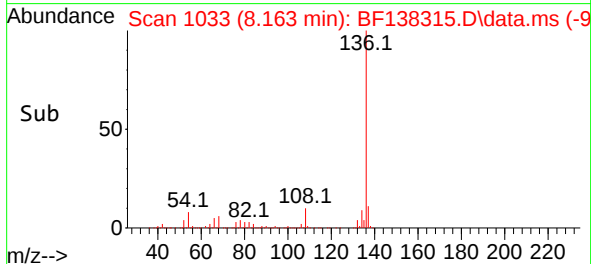
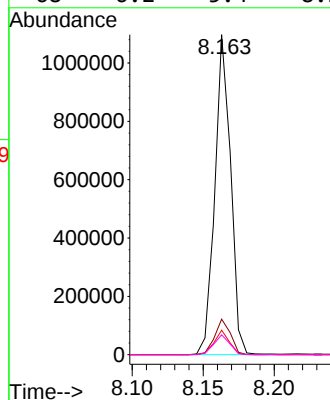
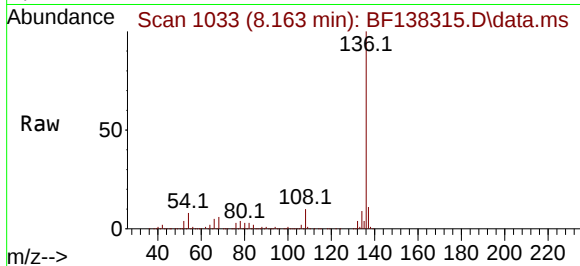




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.163 min Scan# 1033  
Delta R.T. -0.012 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

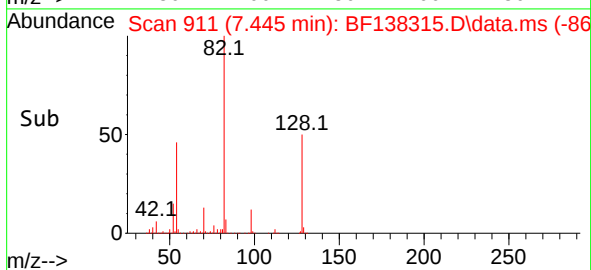
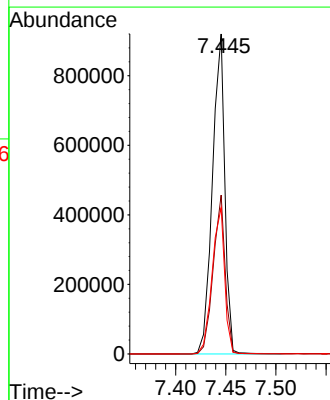
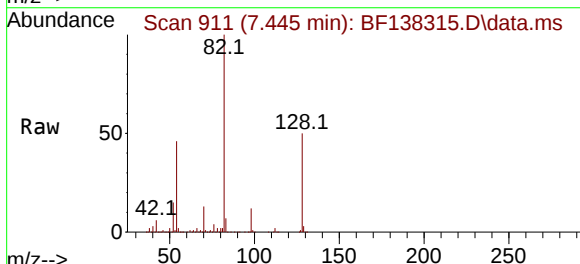
Instrument :  
BNA\_F  
ClientSampleId :  
BKG-1

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 846448 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 9.1   | 13.7   |
| 54       | 7.6   | 6.6   | 10.0   |
| 68       | 6.2   | 5.4   | 8.2    |



#23  
Nitrobenzene-d5  
Concen: 54.478 ng  
RT: 7.445 min Scan# 911  
Delta R.T. -0.012 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 792090 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 49.6  | 37.2  | 55.8   |
| 54       | 45.8  | 39.8  | 59.6   |

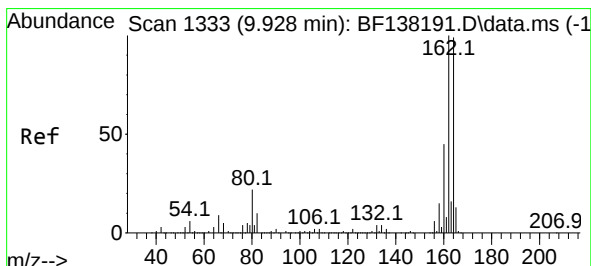
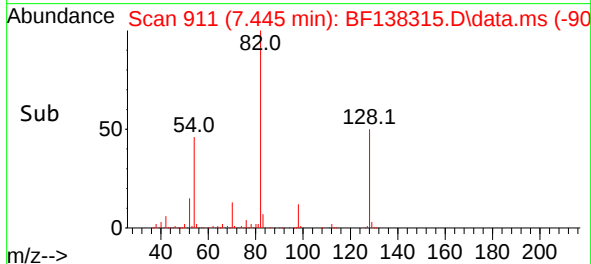
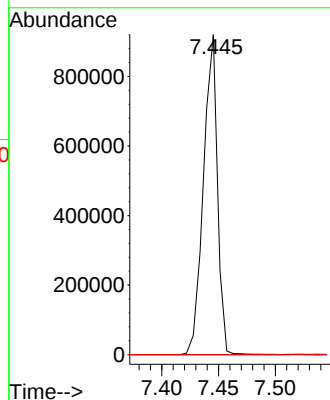
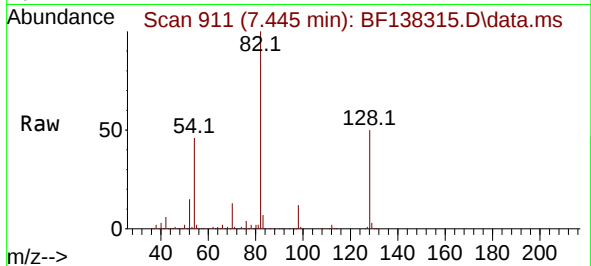




#25  
Isophorone  
Concen: 30.075 ng  
RT: 7.445 min Scan# 911  
Delta R.T. -0.271 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

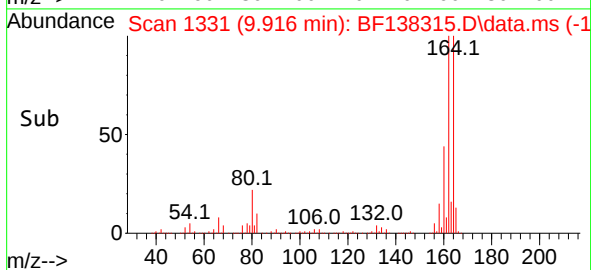
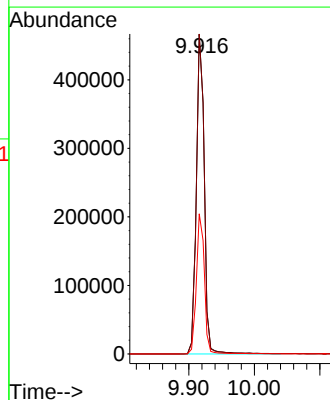
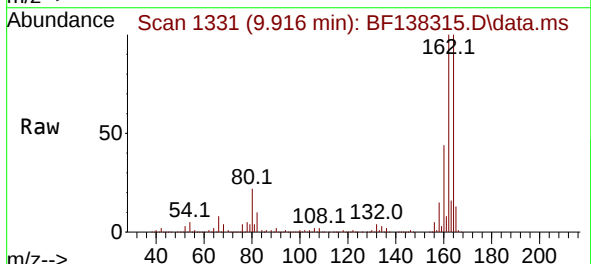
Instrument :  
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BKG-1

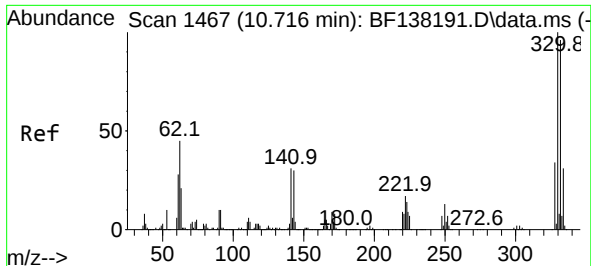
Tgt Ion: 82 Resp: 790949  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.6 8.4#  
138 0.0 16.4 24.6#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.916 min Scan# 1331  
Delta R.T. -0.012 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

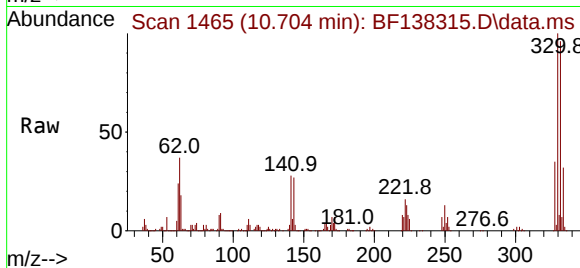
Tgt Ion: 164 Resp: 393565  
Ion Ratio Lower Upper  
164 100  
162 100.1 80.6 121.0  
160 43.9 36.3 54.5



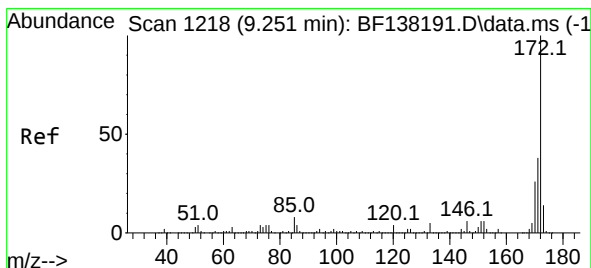
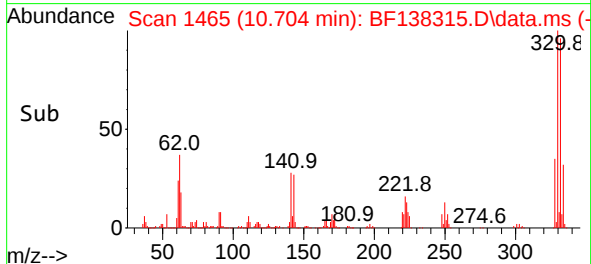
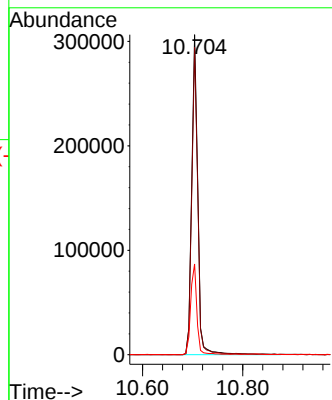


#42  
 2,4,6-Tribromophenol  
 Concen: 65.747 ng  
 RT: 10.704 min Scan# 1465  
 Delta R.T. -0.012 min  
 Lab File: BF138315.D  
 Acq: 24 Jun 2024 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BKG-1

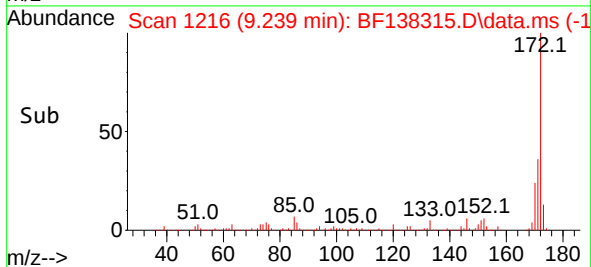
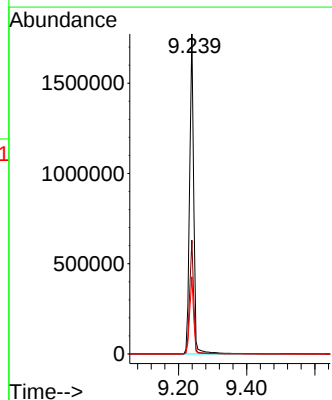
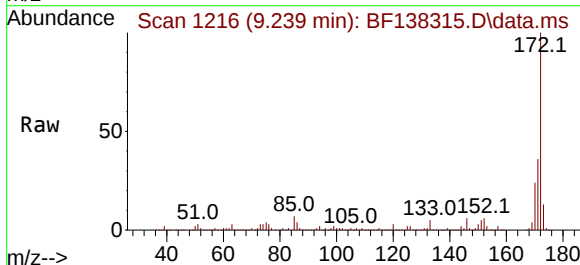


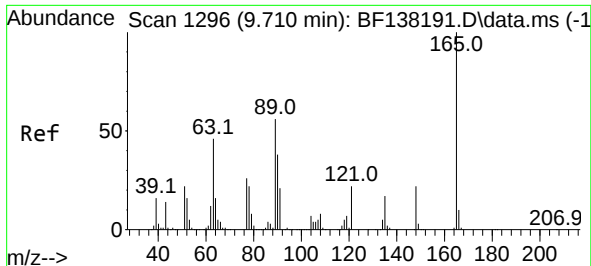
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 Ion Ratio Lower Upper  
 330 100  
 332 95.2 76.6 115.0  
 141 29.2 23.9 35.9



#45  
 2-Fluorobiphenyl  
 Concen: 59.930 ng  
 RT: 9.239 min Scan# 1216  
 Delta R.T. -0.012 min  
 Lab File: BF138315.D  
 Acq: 24 Jun 2024 17:43

Tgt Ion:172 Resp: 1483283  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 30.3 45.5  
 170 24.2 20.6 30.8

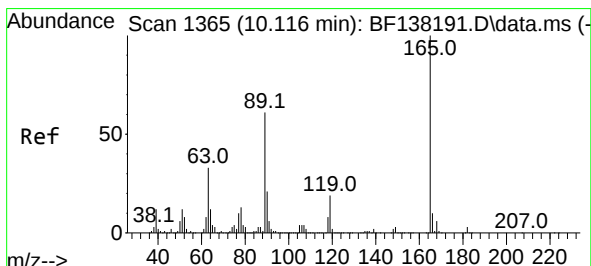
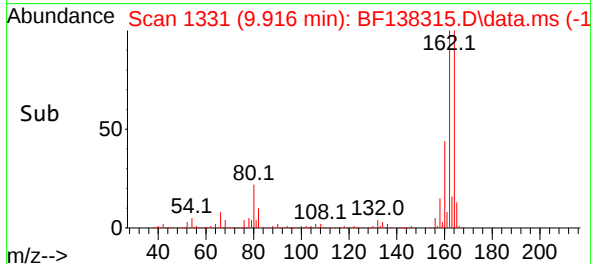
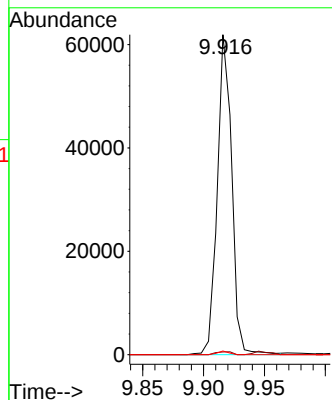
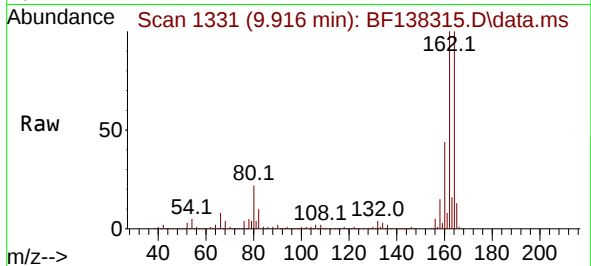




#51  
2,6-Dinitrotoluene  
Concen: 9.804 ng  
RT: 9.916 min Scan# 1331  
Delta R.T. 0.206 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

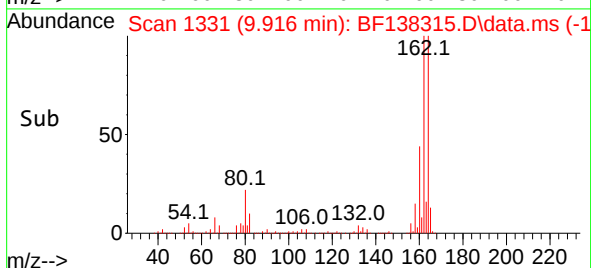
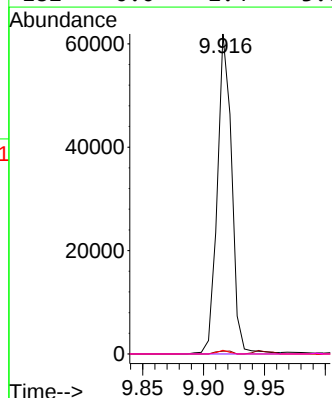
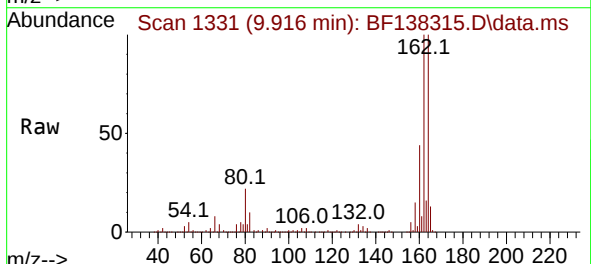
Instrument :  
BNA\_F  
ClientSampleId :  
BKG-1

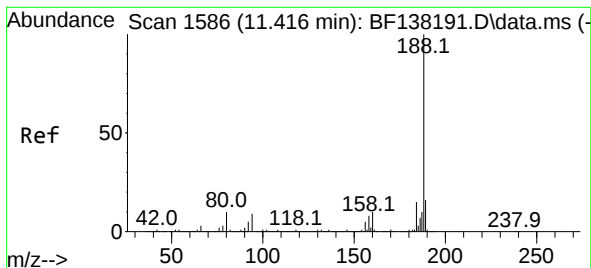
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Ion Ratio Lower Upper  
165 100  
63 0.9 43.7 65.5#  
89 1.1 44.9 67.3#



#57  
2,4-Dinitrotoluene  
Concen: 7.949 ng  
RT: 9.916 min Scan# 1331  
Delta R.T. -0.200 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

Tgt Ion:165 Resp: 51289  
Ion Ratio Lower Upper  
165 100  
63 0.9 26.6 39.8#  
89 1.1 48.7 73.1#  
182 0.0 2.4 3.6#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

BKG-1

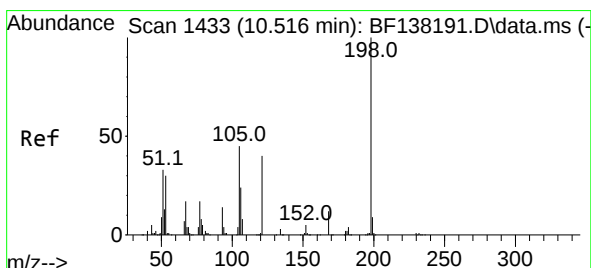
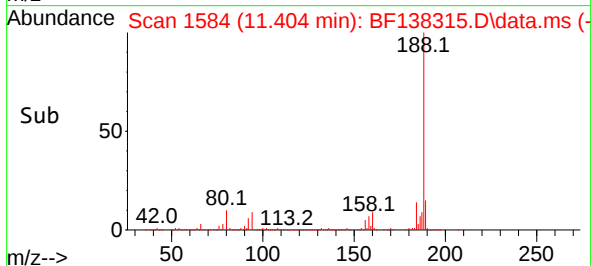
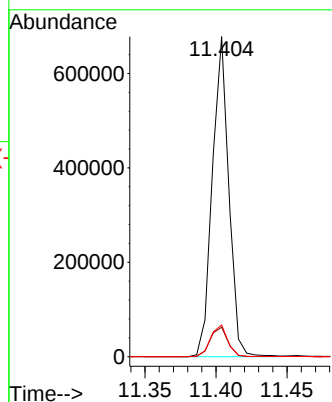
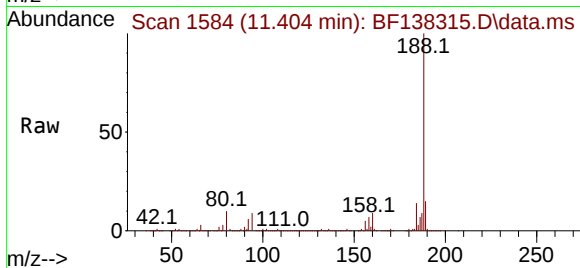
Tgt Ion:188 Resp: 546434

Ion Ratio Lower Upper

188 100

94 9.2 7.6 11.4

80 9.9 8.1 12.1



#65

4,6-Dinitro-2-methylphenol

Concen: 7.107 ng

RT: 10.704 min Scan# 1465

Delta R.T. 0.188 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

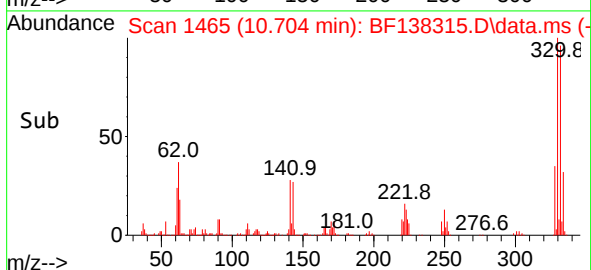
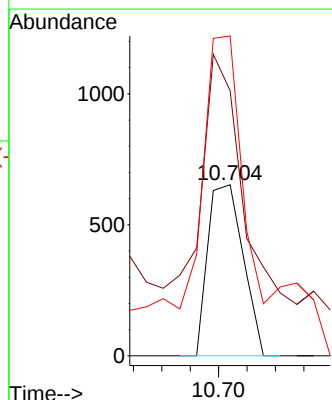
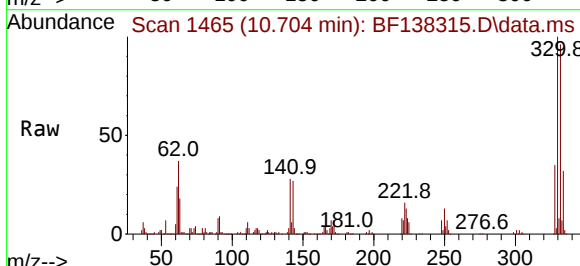
Tgt Ion:198 Resp: 562

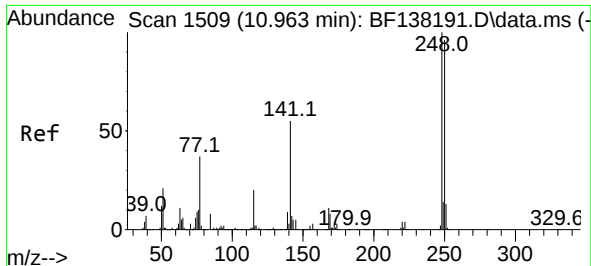
Ion Ratio Lower Upper

198 100

51 155.0 26.9 66.9#

105 187.0 26.0 66.0#

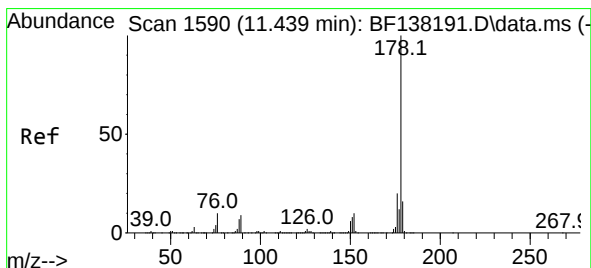
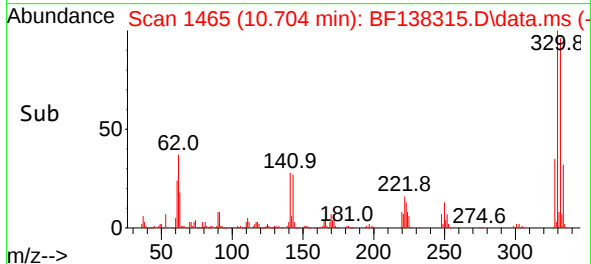
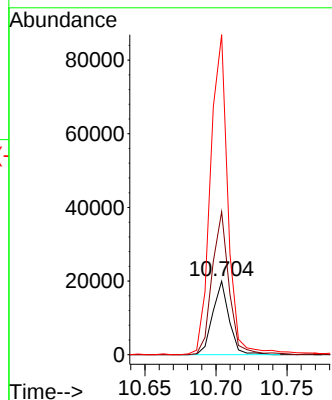
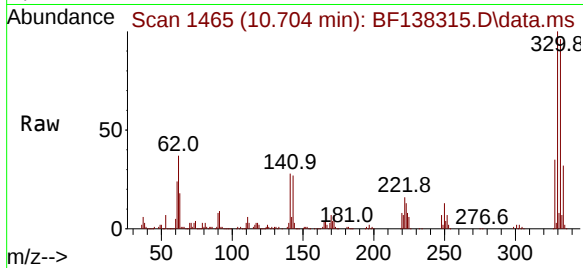




#67  
4-Bromophenyl-phenylether  
Concen: 2.606 ng  
RT: 10.704 min Scan# 1465  
Delta R.T. -0.259 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

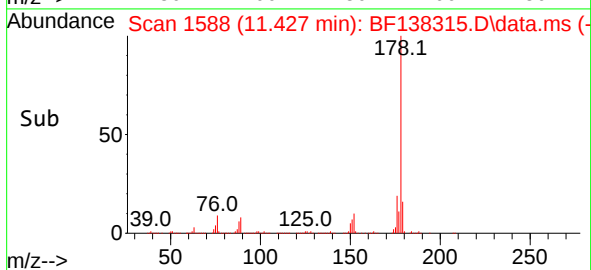
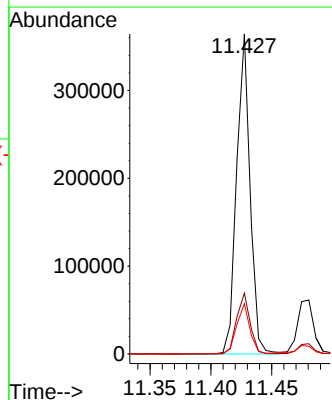
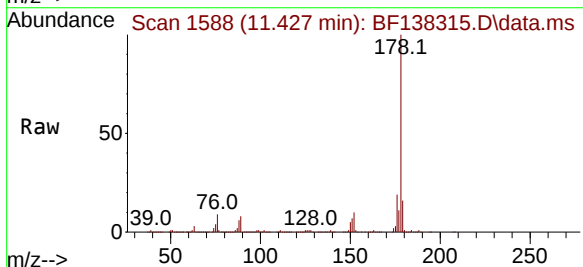
Instrument :  
BNA\_F  
ClientSampleId :  
BKG-1

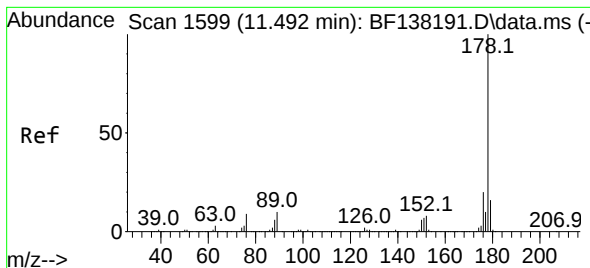
Tgt Ion:248 Resp: 16046  
Ion Ratio Lower Upper  
248 100  
250 194.4 77.2 115.8#  
141 435.4 44.1 66.1#



#71  
Phenanthrene  
Concen: 10.362 ng  
RT: 11.427 min Scan# 1588  
Delta R.T. -0.012 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

Tgt Ion:178 Resp: 280009  
Ion Ratio Lower Upper  
178 100  
176 19.0 16.4 24.6  
179 15.7 13.1 19.7





#72

Anthracene

Concen: 2.006 ng

RT: 11.480 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

BKG-1

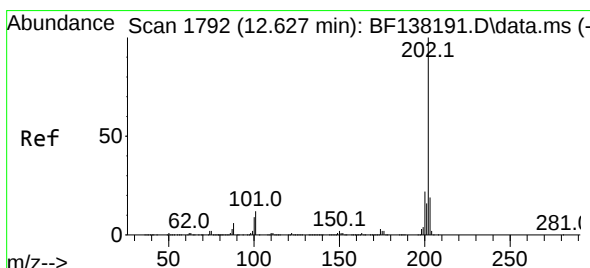
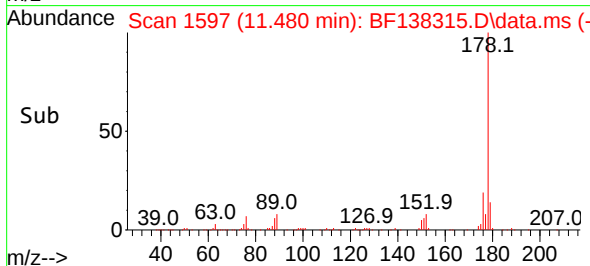
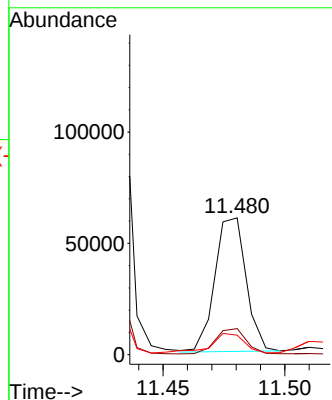
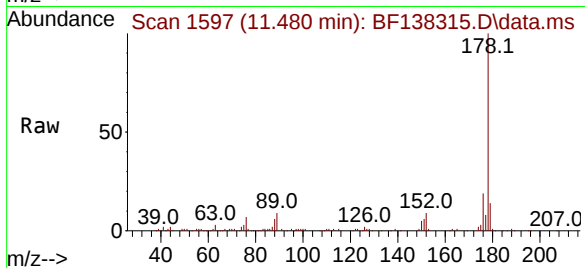
Tgt Ion:178 Resp: 53810

Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

179 14.2 13.0 19.6



#75

Fluoranthene

Concen: 37.847 ng

RT: 12.616 min Scan# 1790

Delta R.T. -0.012 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

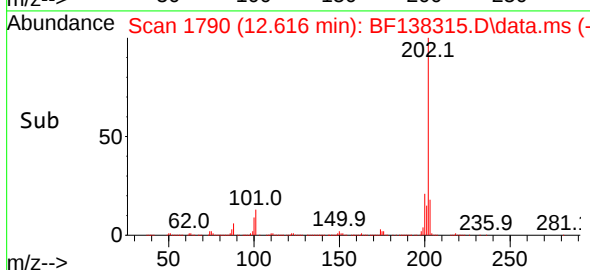
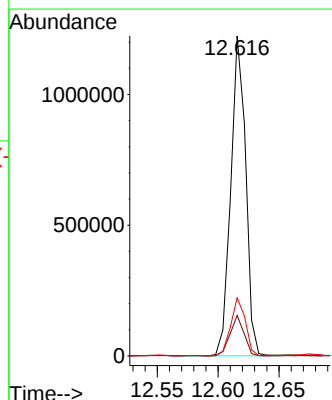
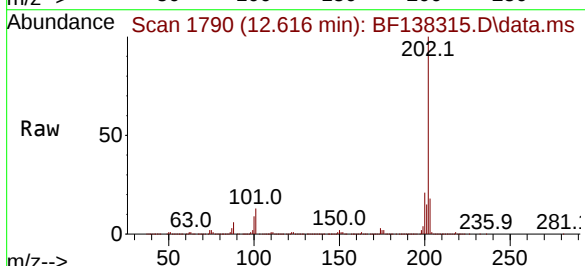
Tgt Ion:202 Resp: 1042908

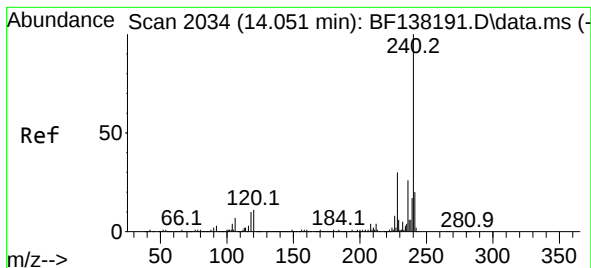
Ion Ratio Lower Upper

202 100

101 12.7 0.0 31.8

203 18.1 0.0 38.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2034

Delta R.T. -0.006 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

BKG-1

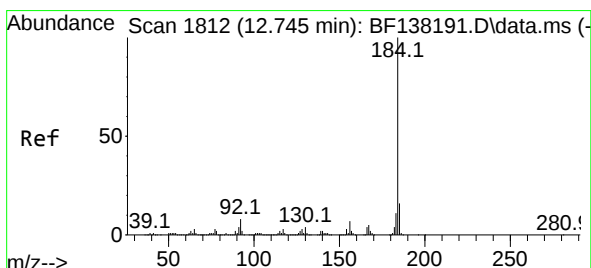
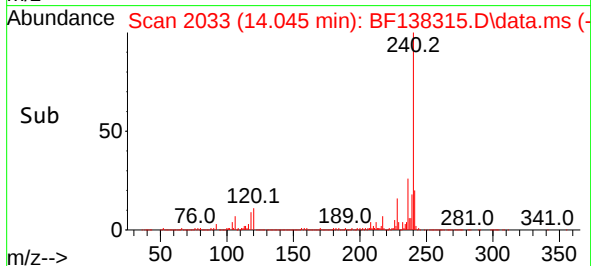
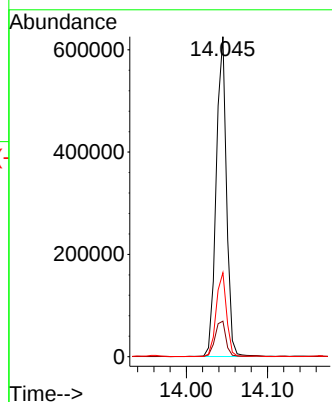
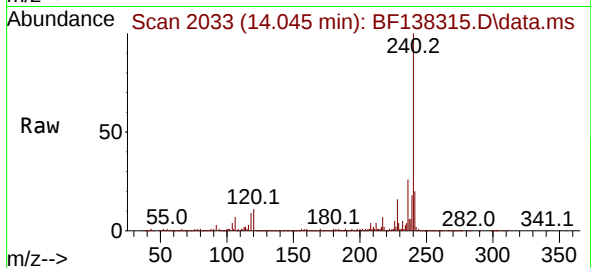
Tgt Ion:240 Resp: 550154

Ion Ratio Lower Upper

240 100

120 11.1 9.2 13.8

236 26.3 21.0 31.6



#77

Benzidine

Concen: 2.853 ng

RT: 12.986 min Scan# 1853

Delta R.T. 0.241 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

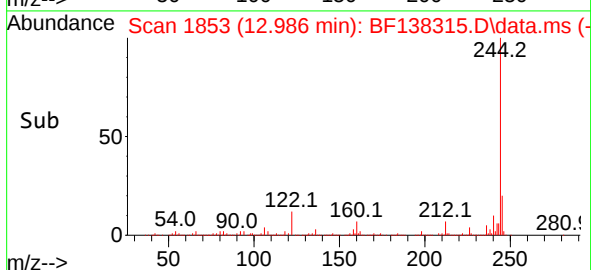
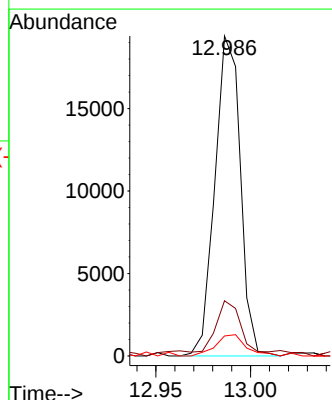
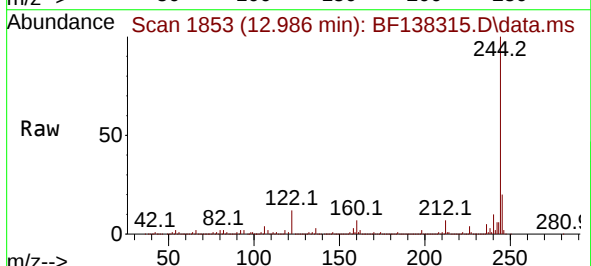
Tgt Ion:184 Resp: 18158

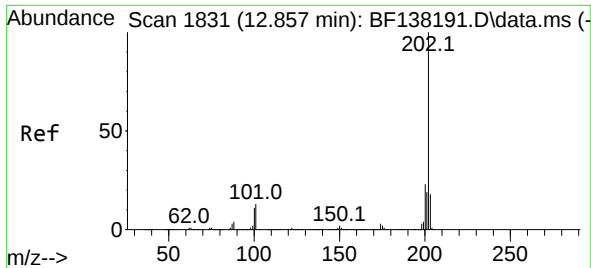
Ion Ratio Lower Upper

184 100

185 17.2 12.6 19.0

183 6.2 9.0 13.6#

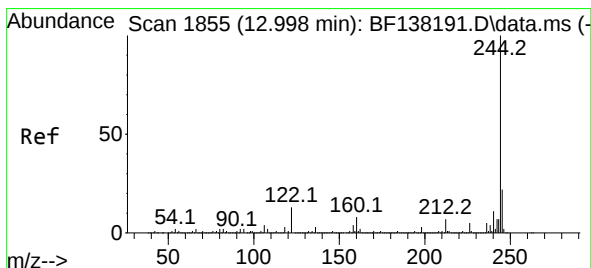
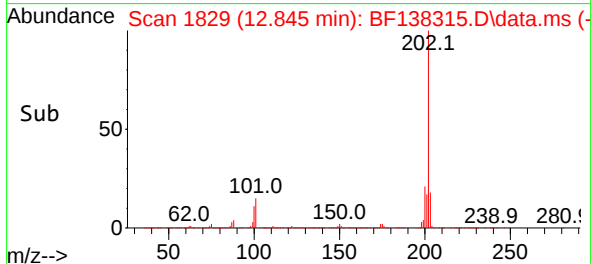
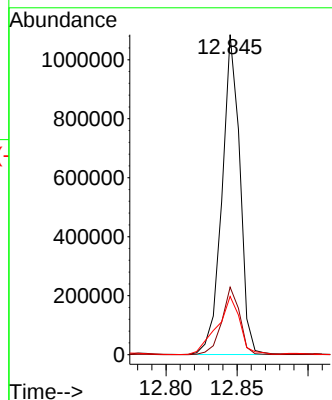
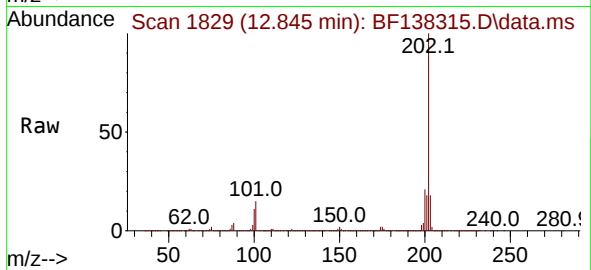




#78  
Pyrene  
Concen: 19.946 ng  
RT: 12.845 min Scan# 1829  
Delta R.T. -0.012 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

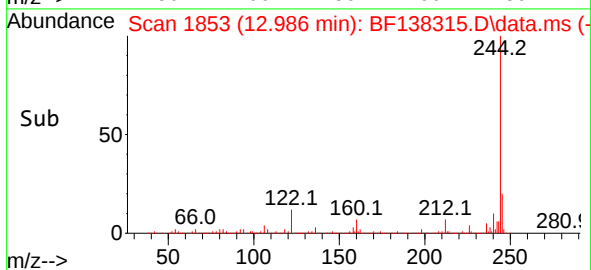
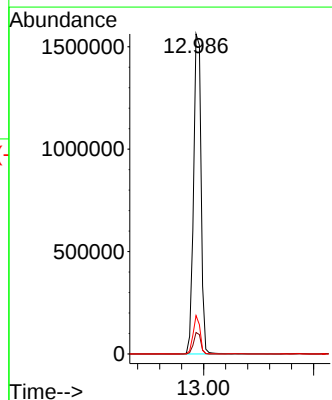
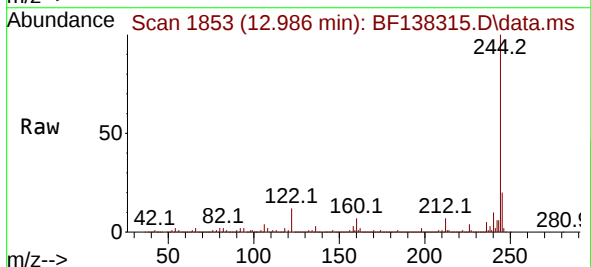
Instrument :  
BNA\_F  
ClientSampleId :  
BKG-1

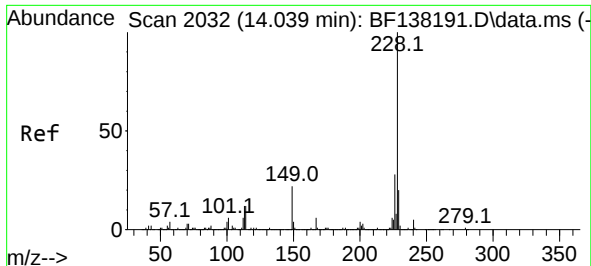
Tgt Ion:202 Resp: 946524  
Ion Ratio Lower Upper  
202 100  
200 21.1 18.0 27.0  
203 18.2 14.7 22.1



#79  
Terphenyl-d14  
Concen: 42.170 ng  
RT: 12.986 min Scan# 1853  
Delta R.T. -0.012 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

Tgt Ion:244 Resp: 1464793  
Ion Ratio Lower Upper  
244 100  
212 6.7 5.9 8.9  
122 12.0 10.6 15.8

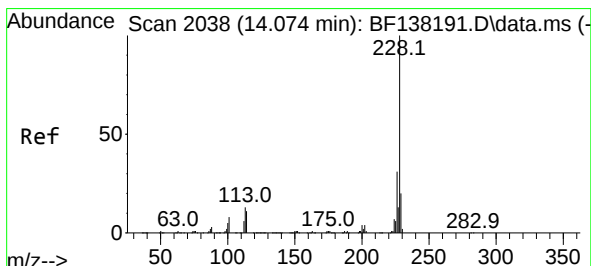
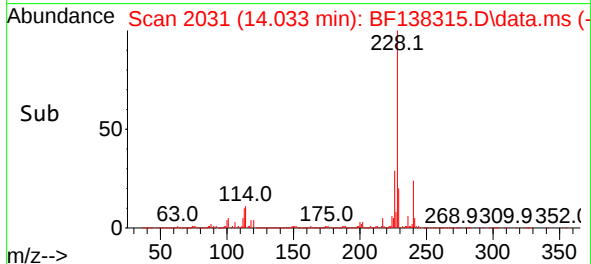
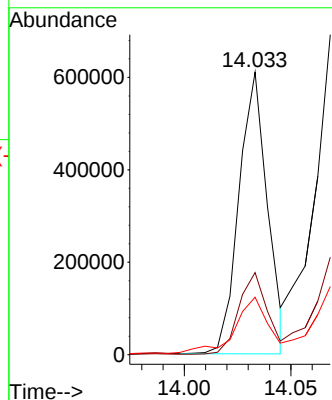
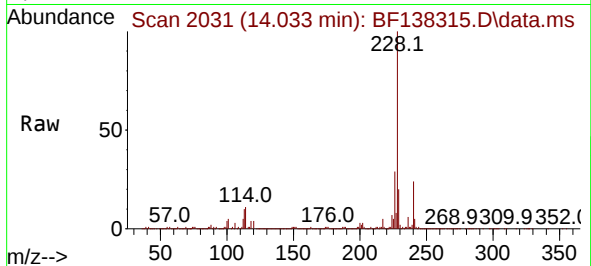




#81  
Benzo(a)anthracene  
Concen: 16.074 ng  
RT: 14.033 min Scan# 2032  
Delta R.T. -0.006 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

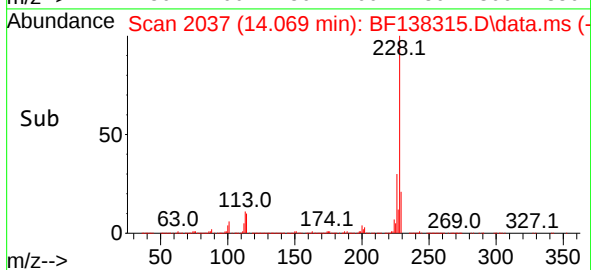
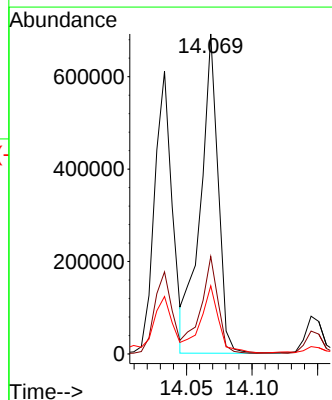
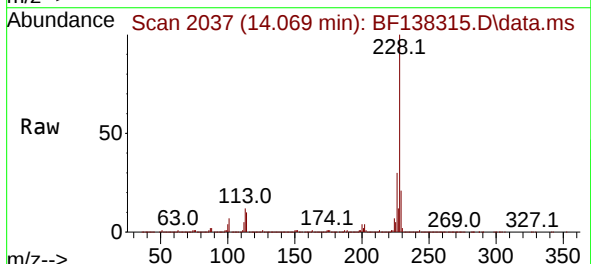
Instrument :  
BNA\_F  
ClientSampleId :  
BKG-1

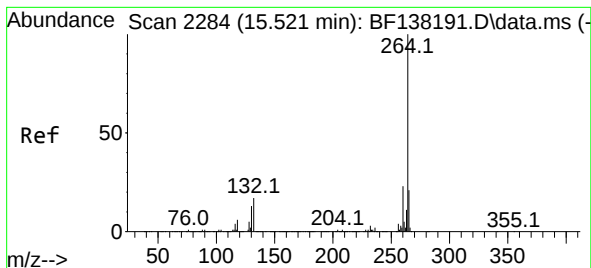
Tgt Ion:228 Resp: 567330  
Ion Ratio Lower Upper  
228 100  
226 29.0 22.5 33.7  
229 20.4 16.3 24.5



#83  
Chrysene  
Concen: 19.377 ng  
RT: 14.069 min Scan# 2037  
Delta R.T. -0.006 min  
Lab File: BF138315.D  
Acq: 24 Jun 2024 17:43

Tgt Ion:228 Resp: 651885  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.5 36.7  
229 21.3 16.3 24.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.515 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

BKG-1

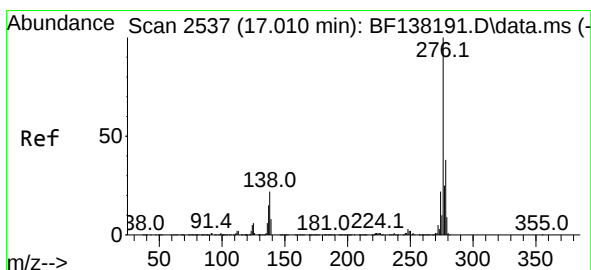
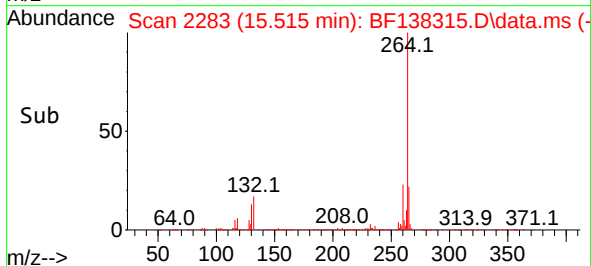
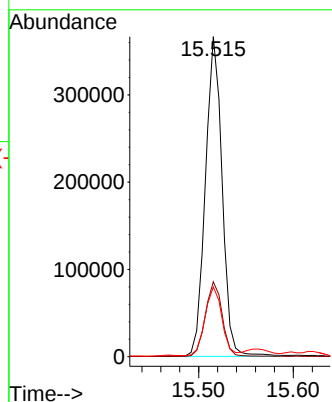
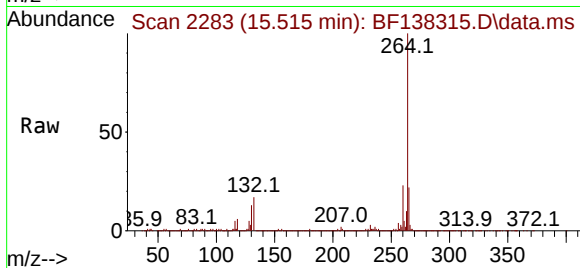
Tgt Ion:264 Resp: 448499

Ion Ratio Lower Upper

264 100

260 23.4 18.7 28.1

265 21.8 17.0 25.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.254 ng

RT: 16.986 min Scan# 2533

Delta R.T. -0.024 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

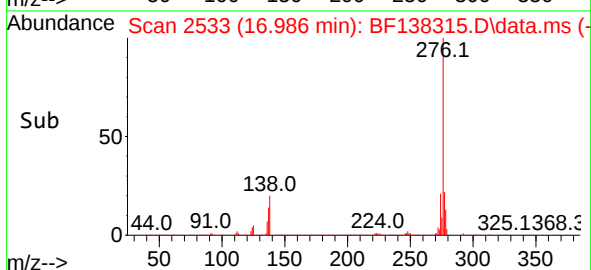
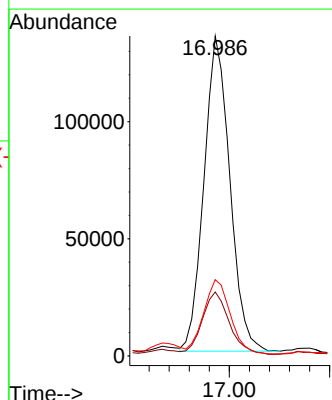
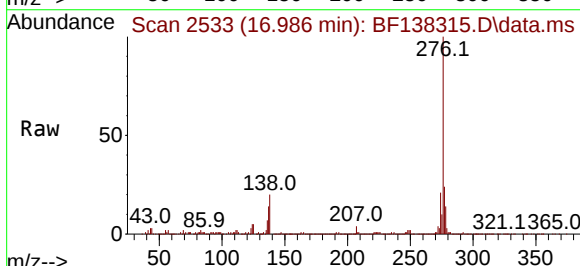
Tgt Ion:276 Resp: 241338

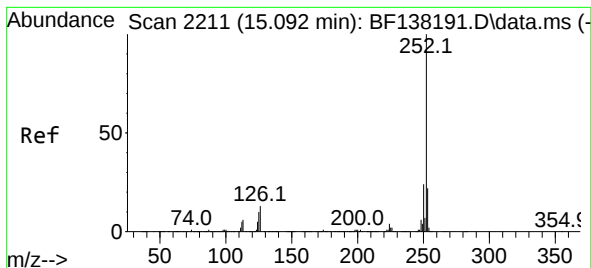
Ion Ratio Lower Upper

276 100

138 20.8 19.3 28.9

277 24.3 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 37.663 ng

RT: 15.086 min Scan# 2210

Delta R.T. -0.006 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

BKG-1

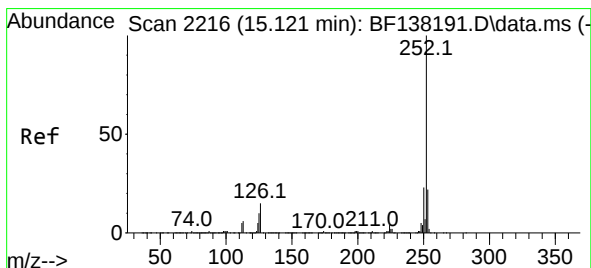
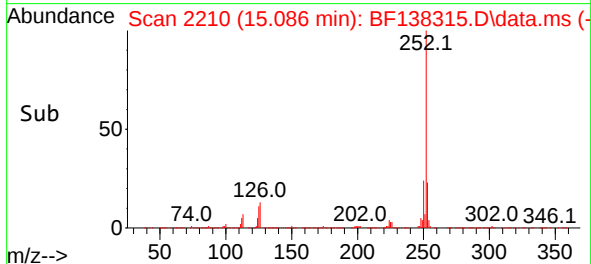
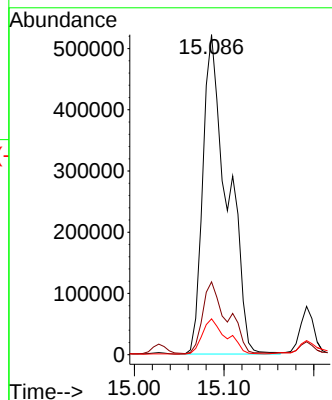
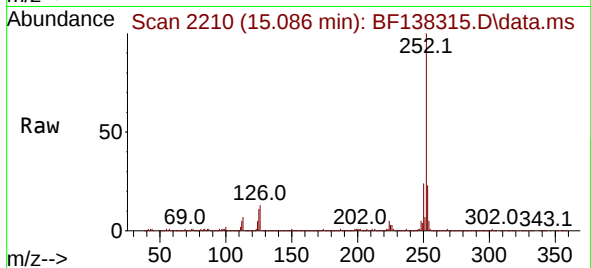
Tgt Ion:252 Resp: 996142

Ion Ratio Lower Upper

252 100

253 22.8 17.7 26.5

125 11.2 7.8 11.8



#89

Benzo(k)fluoranthene

Concen: 38.431 ng

RT: 15.086 min Scan# 2210

Delta R.T. -0.035 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

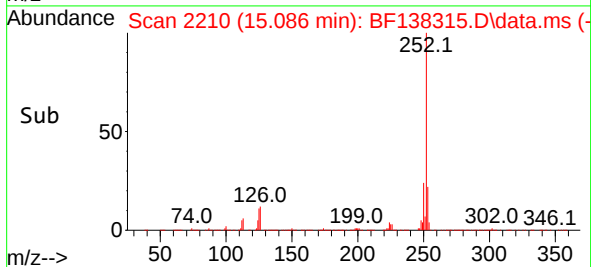
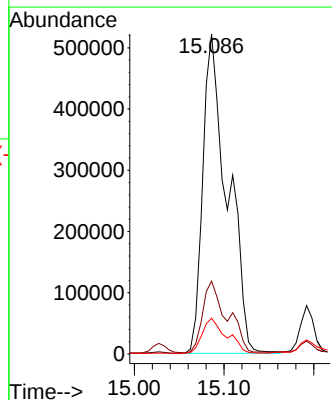
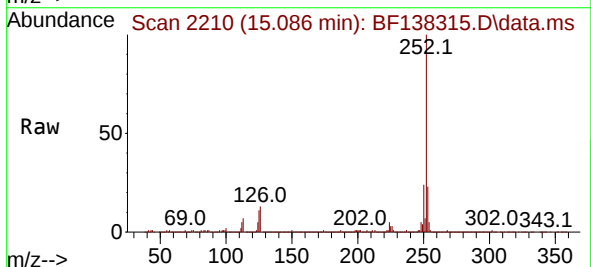
Tgt Ion:252 Resp: 996142

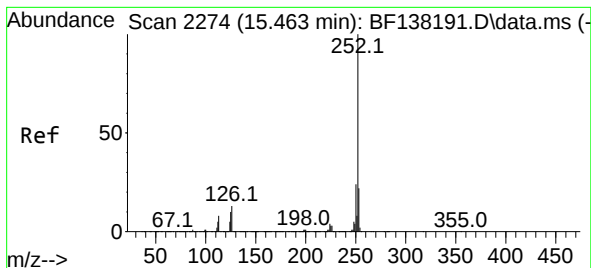
Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

125 11.2 8.0 12.0





#90

Benzo(a)pyrene

Concen: 19.442 ng

RT: 15.451 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

Instrument :

BNA\_F

ClientSampleId :

BKG-1

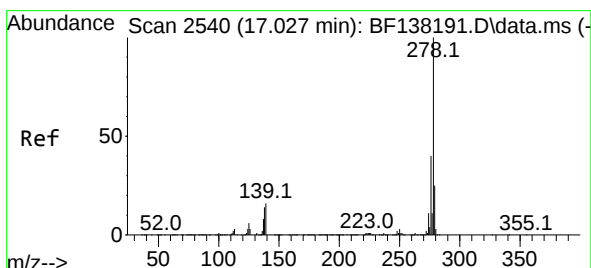
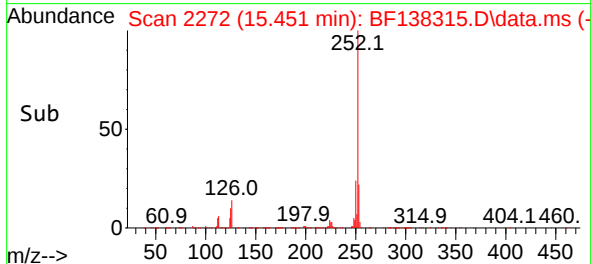
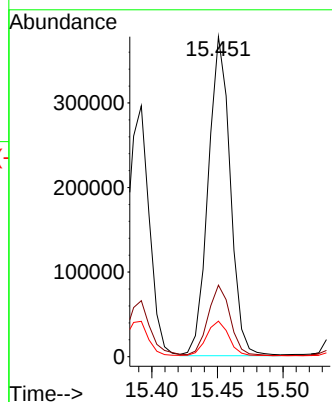
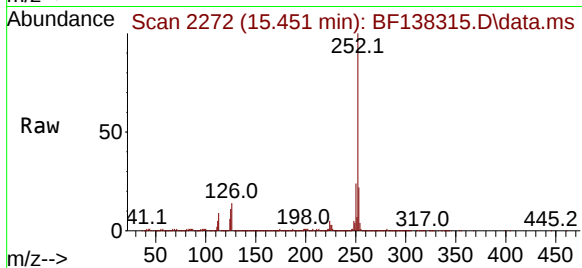
Tgt Ion:252 Resp: 441754

Ion Ratio Lower Upper

252 100

253 22.4 17.7 26.5

125 11.1 8.2 12.2



#91

Dibenzo(a,h)anthracene

Concen: 2.532 ng

RT: 17.004 min Scan# 2536

Delta R.T. -0.024 min

Lab File: BF138315.D

Acq: 24 Jun 2024 17:43

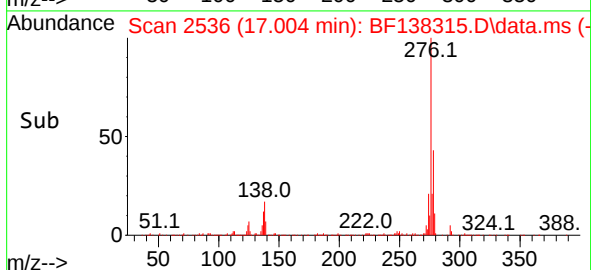
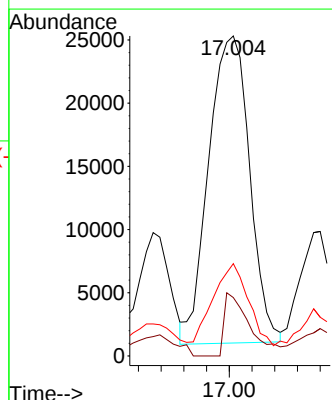
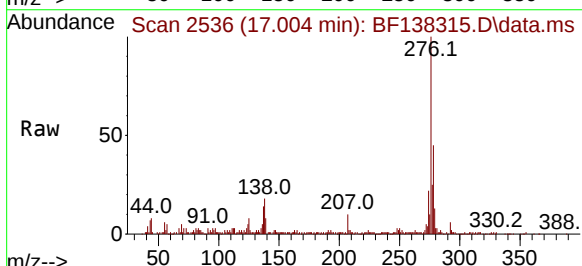
Tgt Ion:278 Resp: 60767

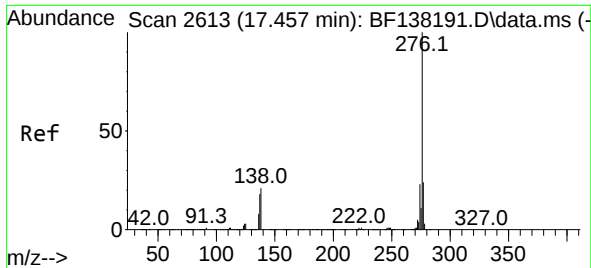
Ion Ratio Lower Upper

278 100

139 18.3 12.9 19.3

279 28.8 19.9 29.9





#92  
 Benzo(g,h,i)perylene  
 Concen: 9.848 ng  
 RT: 17.433 min Scan# 20  
 Delta R.T. -0.024 min  
 Lab File: BF138315.D  
 Acq: 24 Jun 2024 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BKG-1

Tgt Ion:276 Resp: 244496  
 Ion Ratio Lower Upper  
 276 100  
 277 24.6 19.5 29.3  
 138 21.2 16.6 24.8

