

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF080324\  
 Data File : BF138771.D  
 Acq On : 03 Aug 2024 15:43  
 Operator : RC/JU  
 Sample : P3448-11  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP6

Quant Time: Aug 05 00:52:24 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF073024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 30 17:50:01 2024  
 Response via : Initial Calibration

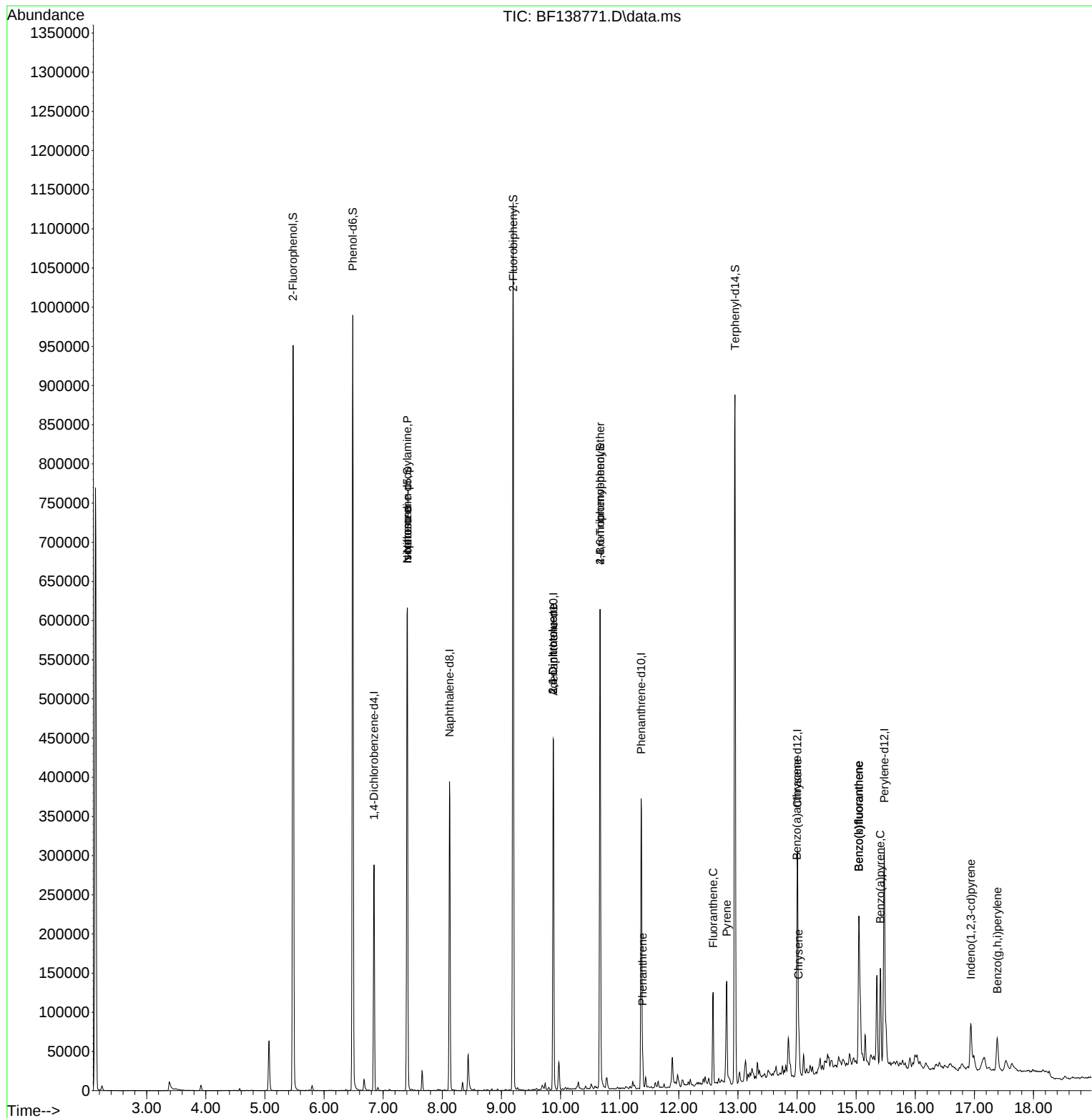
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.846  | 152  | 55566    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.122  | 136  | 239638   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.881  | 164  | 134192   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.363 | 188  | 192153   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.004 | 240  | 102543   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.474 | 264  | 150206   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.475  | 112  | 322596   | 89.619 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.487  | 99   | 439914   | 91.025 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.410  | 82   | 274534   | 56.011 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.669 | 330  | 90898    | 82.694 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.198  | 172  | 473837   | 53.054 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.951 | 244  | 418377   | 68.310 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.410  | 70   | 37465    | 12.835 | ng    | # 74     |
| 25) Isophorone                | 7.410  | 82   | 274574   | 32.807 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene        | 9.875  | 165  | 17984    | 9.287  | ng    | # 21     |
| 57) 2,4-Dinitrotoluene        | 9.875  | 165  | 17984    | 7.279  | ng    | # 18     |
| 67) 4-Bromophenyl-phenylether | 10.669 | 248  | 6481     | 3.115  | ng    | # 1      |
| 71) Phenanthrene              | 11.386 | 178  | 20249    | 2.047  | ng    | 98       |
| 75) Fluoranthene              | 12.580 | 202  | 64929    | 7.029  | ng    | 98       |
| 78) Pyrene                    | 12.810 | 202  | 74178    | 7.683  | ng    | 99       |
| 81) Benzo(a)anthracene        | 13.998 | 228  | 36118    | 5.115  | ng    | 93       |
| 83) Chrysene                  | 14.027 | 228  | 27654    | 4.341  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.939 | 276  | 38877    | 3.612  | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 15.045 | 252  | 145958   | 15.675 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.045 | 252  | 145958   | 18.105 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.410 | 252  | 67338    | 8.598  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.386 | 276  | 38115    | 4.157  | ng    | 99       |
| -----                         |        |      |          |        |       |          |

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

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Sample : P3448-11  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP6

Quant Time: Aug 05 00:52:24 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF073024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 30 17:50:01 2024  
Response via : Initial Calibration

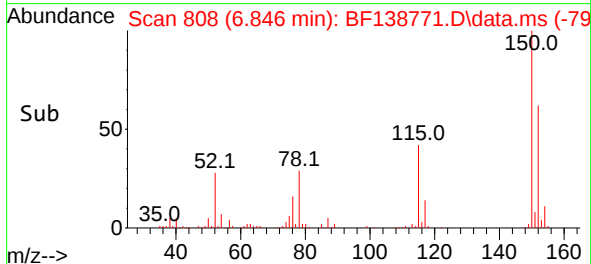
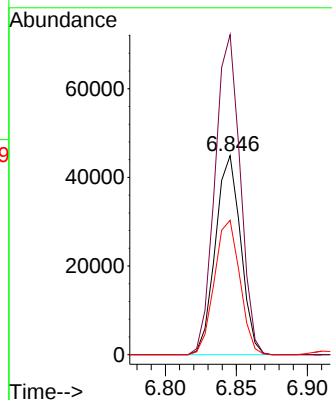
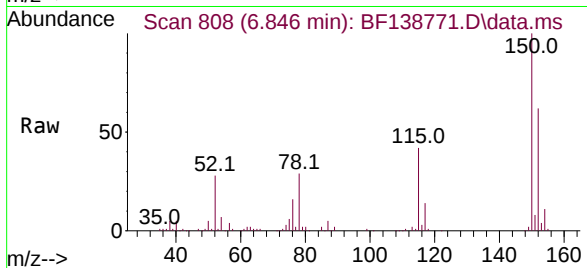




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.846 min Scan# 808  
Delta R.T. 0.001 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

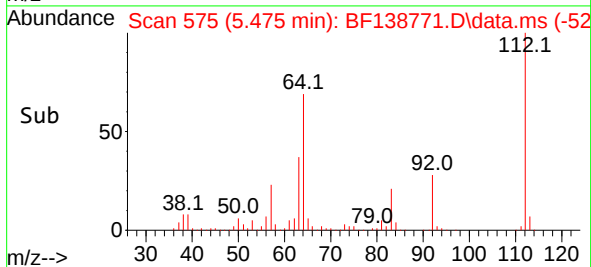
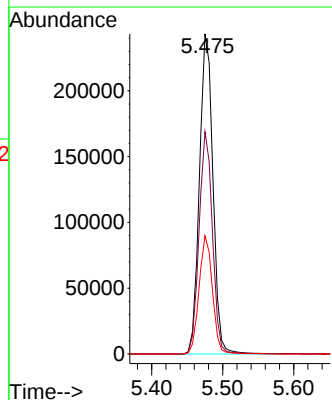
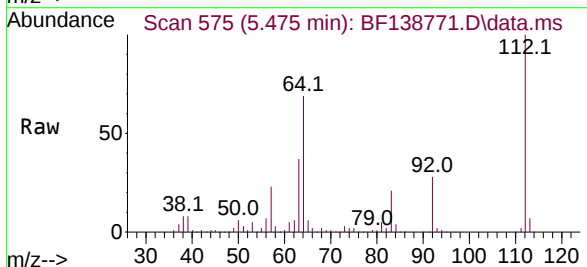
Instrument :  
BNA\_F  
ClientSampleId :  
TP6

Tgt Ion:152 Resp: 55566  
Ion Ratio Lower Upper  
152 100  
150 160.8 126.0 189.0  
115 67.5 51.7 77.5



#5  
2-Fluorophenol  
Concen: 89.619 ng  
RT: 5.475 min Scan# 575  
Delta R.T. 0.006 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

Tgt Ion:112 Resp: 322596  
Ion Ratio Lower Upper  
112 100  
64 69.4 54.2 81.4  
63 36.9 28.7 43.1

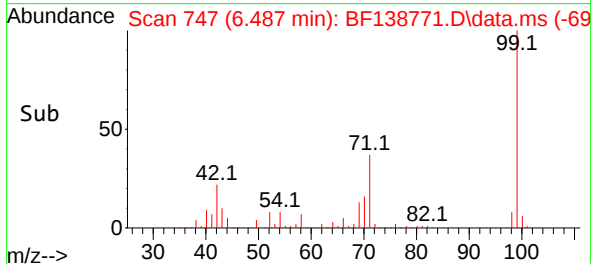
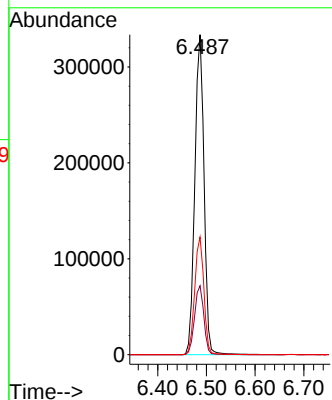
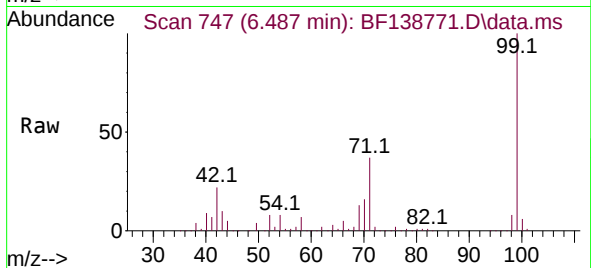




#7  
Phenol-d6  
Concen: 91.025 ng  
RT: 6.487 min Scan# 74  
Delta R.T. 0.000 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

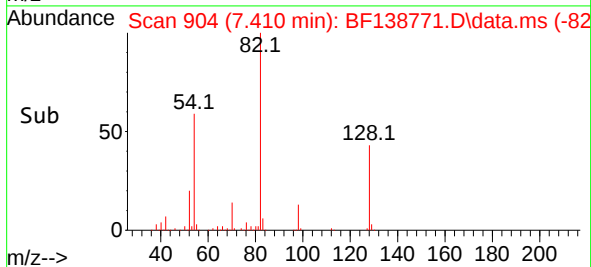
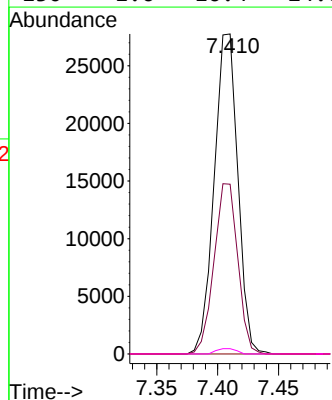
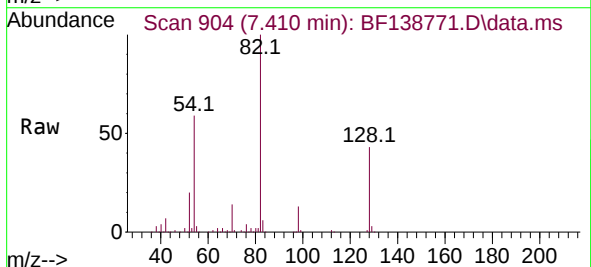
Instrument :  
BNA\_F  
ClientSampleId :  
TP6

Tgt Ion: 99 Resp: 439914  
Ion Ratio Lower Upper  
99 100  
42 21.6 17.4 26.0  
71 36.8 28.1 42.1



#19  
n-Nitroso-di-n-propylamine  
Concen: 12.835 ng  
RT: 7.410 min Scan# 904  
Delta R.T. 0.153 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

Tgt Ion: 70 Resp: 37465  
Ion Ratio Lower Upper  
70 100  
42 53.1 57.4 86.0#  
101 0.0 7.5 11.3#  
130 1.6 16.4 24.6#

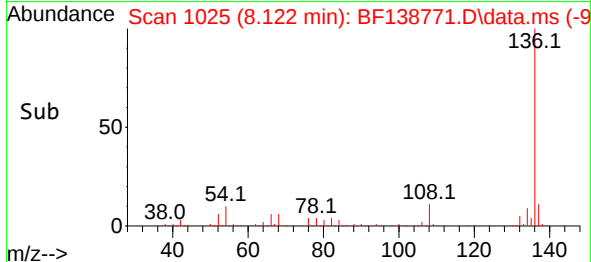
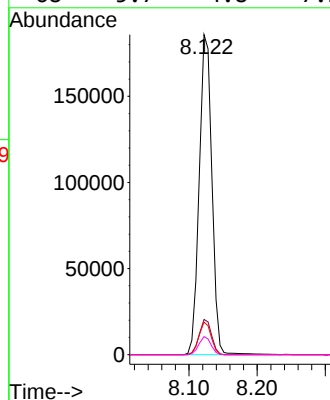
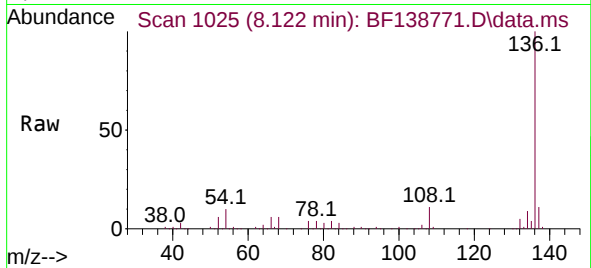




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.122 min Scan# 1026  
Delta R.T. -0.006 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

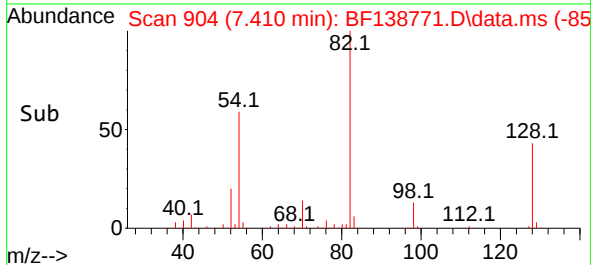
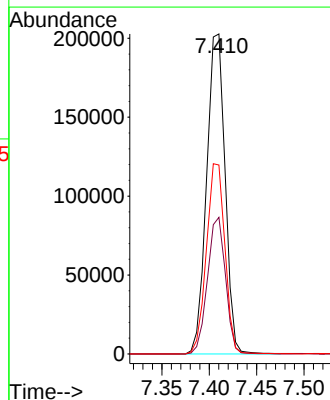
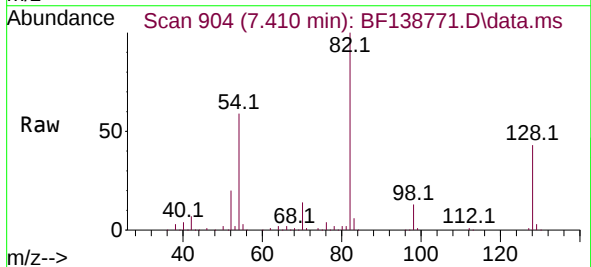
Instrument :  
BNA\_F  
ClientSampleId :  
TP6

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 239638 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.9   | 13.3   |
| 54        | 10.1  | 8.6   | 12.8   |
| 68        | 5.7   | 4.8   | 7.2    |



#23  
Nitrobenzene-d5  
Concen: 56.011 ng  
RT: 7.410 min Scan# 904  
Delta R.T. 0.000 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 274534 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 42.7  | 32.8  | 49.2   |
| 54        | 59.0  | 48.3  | 72.5   |

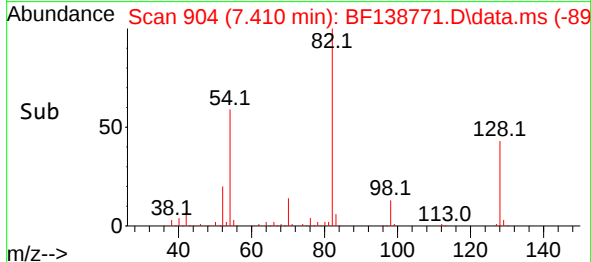
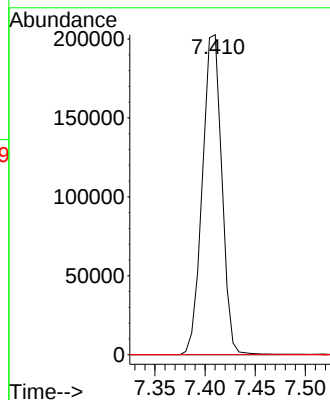
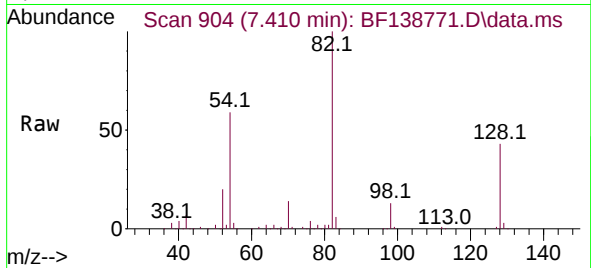




#25  
Isophorone  
Concen: 32.807 ng  
RT: 7.410 min Scan# 904  
Delta R.T. -0.259 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

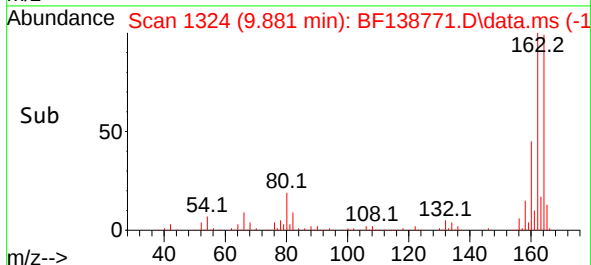
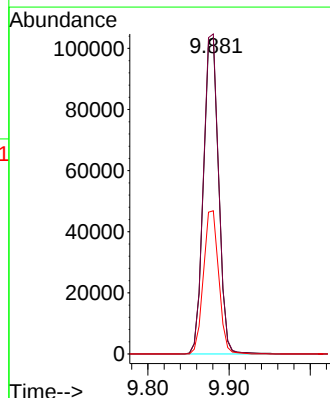
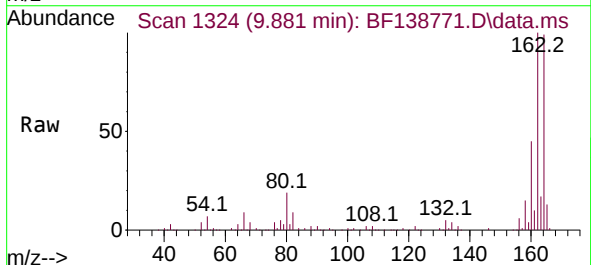
Instrument :  
BNA\_F  
ClientSampleId :  
TP6

Tgt Ion: 82 Resp: 274574  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 13.7 20.5#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.881 min Scan# 1324  
Delta R.T. 0.001 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

Tgt Ion:164 Resp: 134192  
Ion Ratio Lower Upper  
164 100  
162 101.2 79.4 119.0  
160 45.3 35.1 52.7

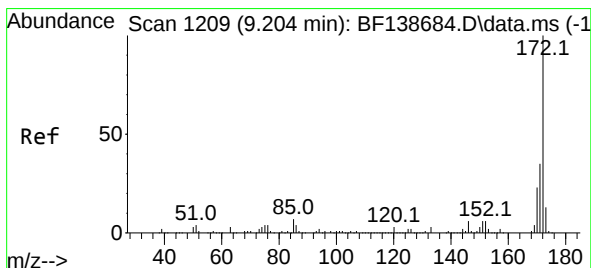
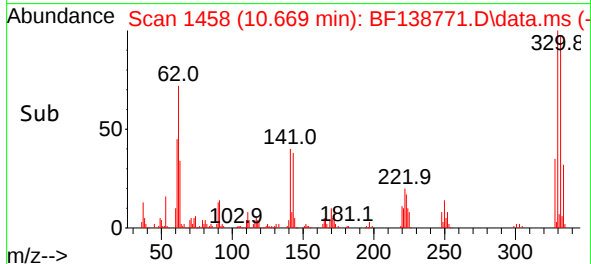
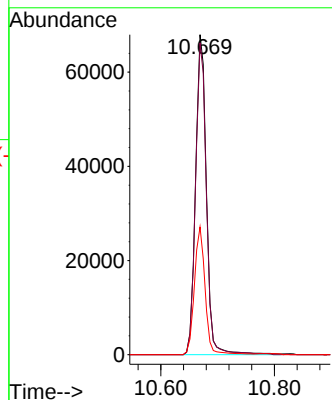
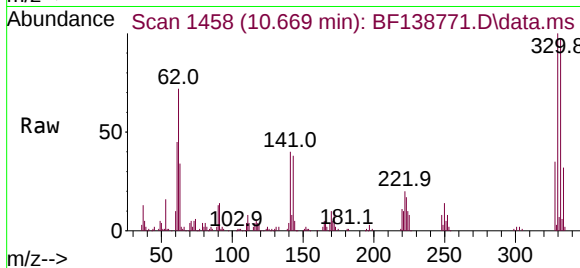




#42  
2,4,6-Tribromophenol  
Concen: 82.694 ng  
RT: 10.669 min Scan# 1458  
Delta R.T. 0.000 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

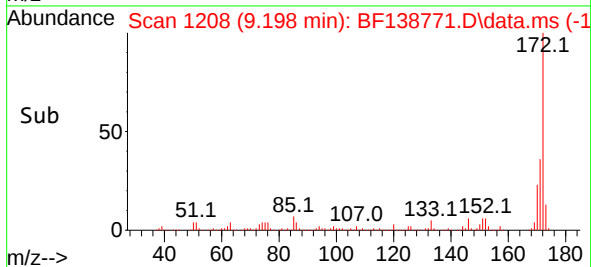
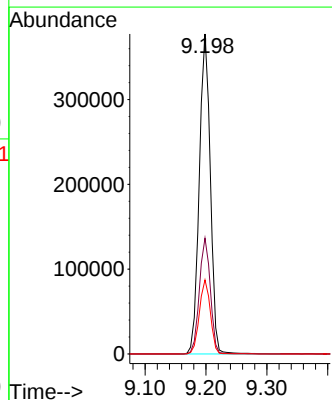
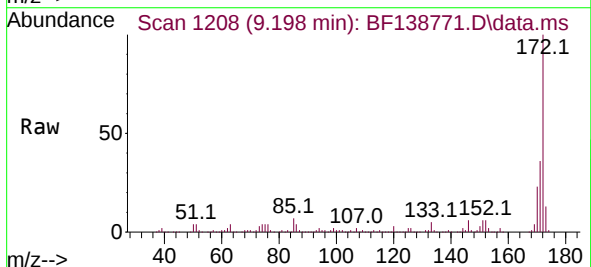
Instrument :  
BNA\_F  
ClientSampleId :  
TP6

Tgt Ion: 330 Resp: 90898  
Ion Ratio Lower Upper  
330 100  
332 97.3 76.4 114.6  
141 39.4 31.1 46.7



#45  
2-Fluorobiphenyl  
Concen: 53.054 ng  
RT: 9.198 min Scan# 1208  
Delta R.T. -0.006 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

Tgt Ion: 172 Resp: 473837  
Ion Ratio Lower Upper  
172 100  
171 36.2 28.3 42.5  
170 23.2 18.8 28.2





#51

2,6-Dinitrotoluene

Concen: 9.287 ng

RT: 9.875 min Scan# 11

Delta R.T. 0.206 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

Instrument :

BNA\_F

ClientSampleId :

TP6

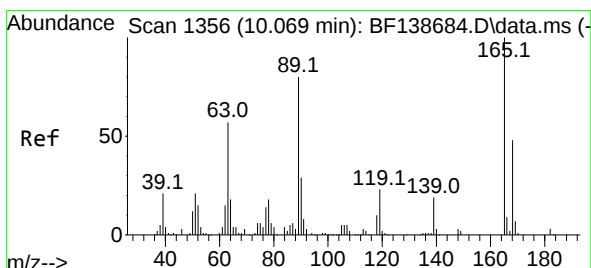
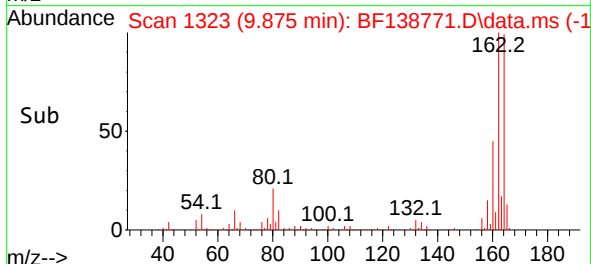
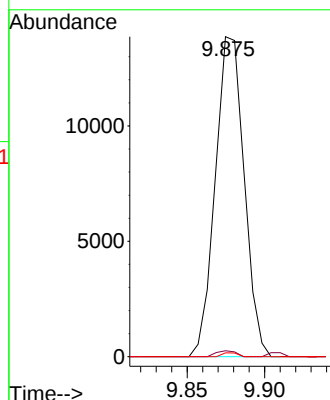
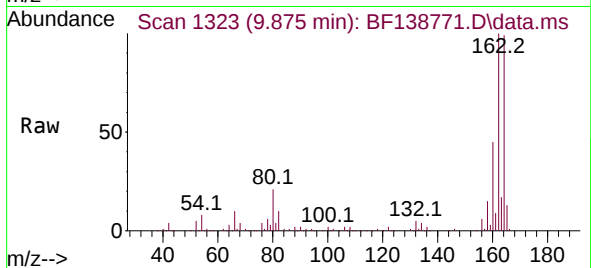
Tgt Ion:165 Resp: 17984

Ion Ratio Lower Upper

165 100

63 1.8 52.0 78.0#

89 1.2 47.0 70.6#



#57

2,4-Dinitrotoluene

Concen: 7.279 ng

RT: 9.875 min Scan# 1323

Delta R.T. -0.194 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

Tgt Ion:165 Resp: 17984

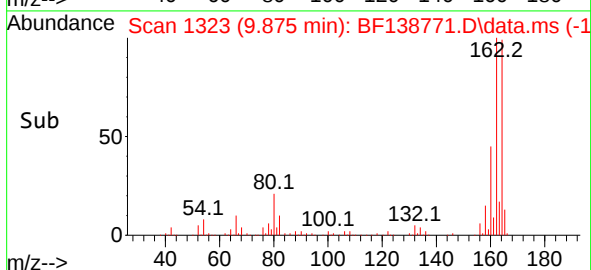
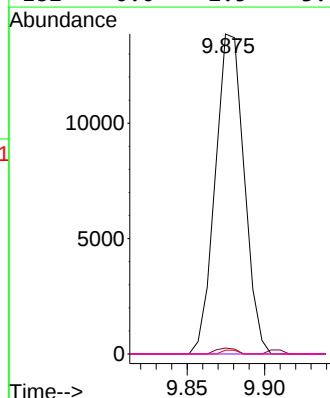
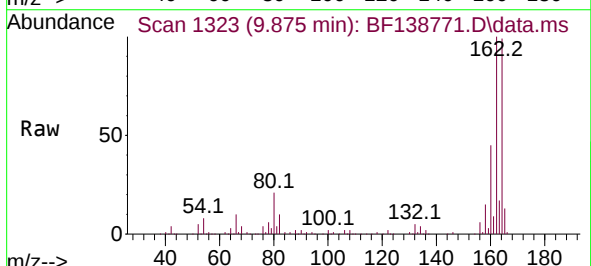
Ion Ratio Lower Upper

165 100

63 1.8 46.3 69.5#

89 1.2 64.2 96.4#

182 0.0 2.5 3.7#

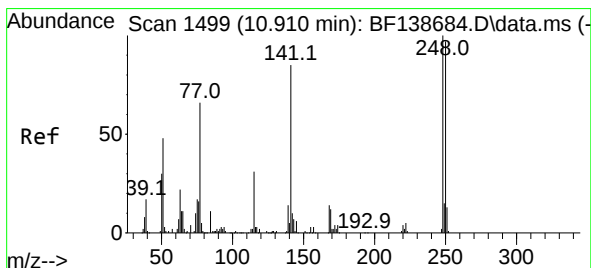
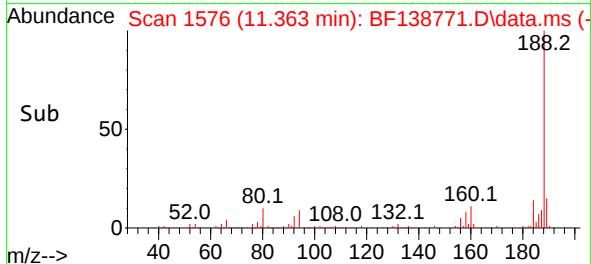
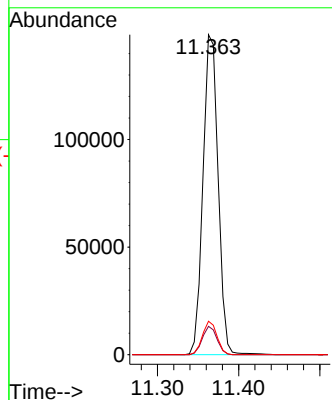
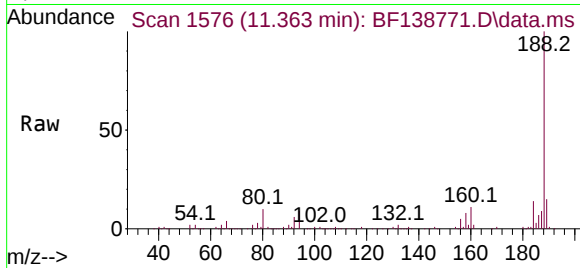




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.363 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

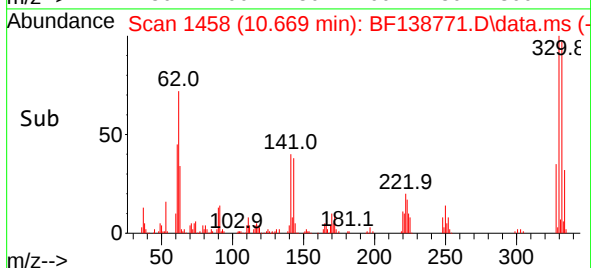
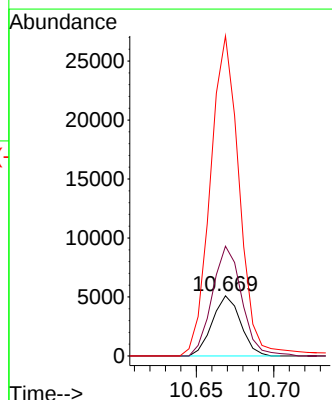
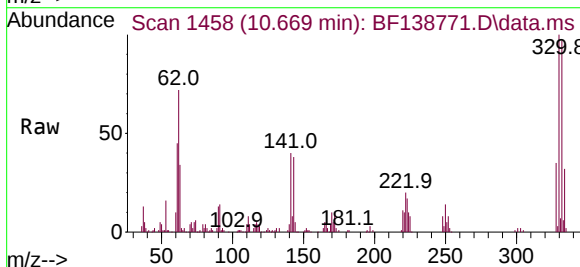
Instrument :  
BNA\_F  
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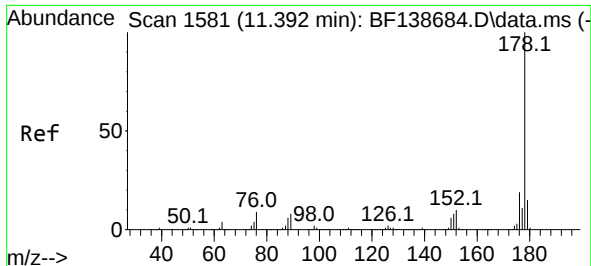
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Ion Ratio Lower Upper  
188 100  
94 8.9 7.6 11.4  
80 10.5 8.6 12.8



#67  
4-Bromophenyl-phenylether  
Concen: 3.115 ng  
RT: 10.669 min Scan# 1458  
Delta R.T. -0.241 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

Tgt Ion:248 Resp: 6481  
Ion Ratio Lower Upper  
248 100  
250 182.5 77.7 116.5#  
141 532.0 68.0 102.0#

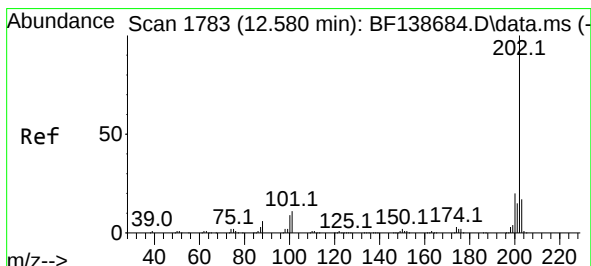
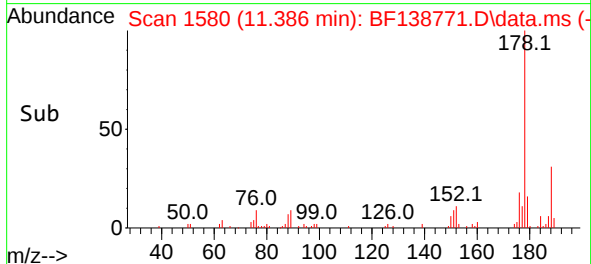
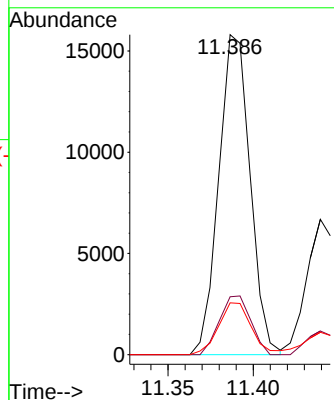
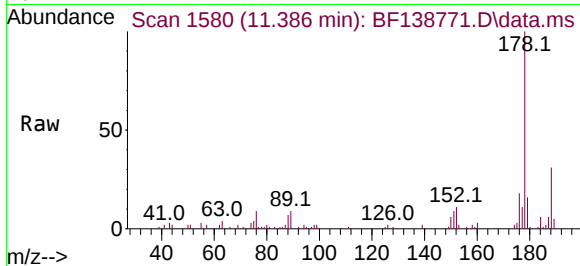




#71  
Phenanthrene  
Concen: 2.047 ng  
RT: 11.386 min Scan# 1581  
Delta R.T. -0.006 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

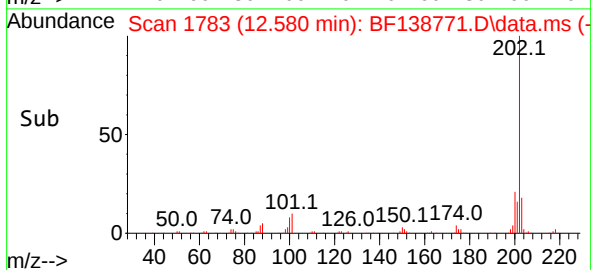
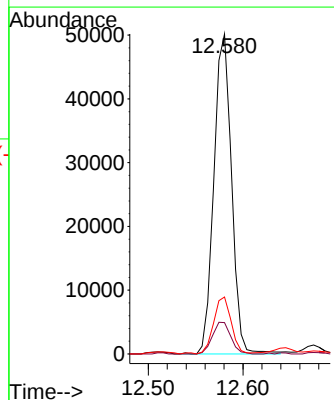
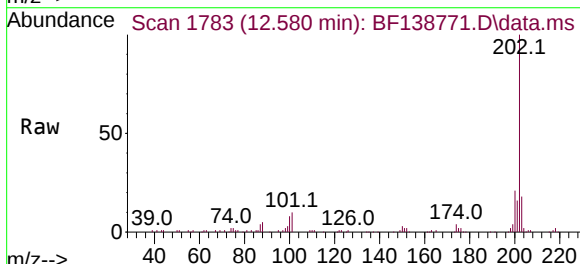
Instrument :  
BNA\_F  
ClientSampleId :  
TP6

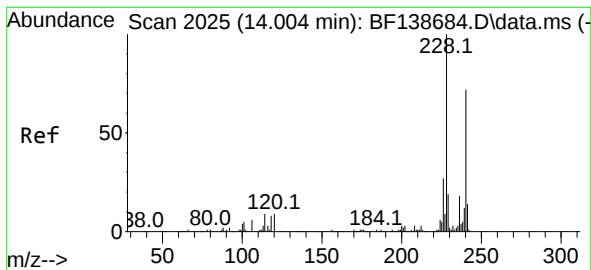
Tgt Ion:178 Resp: 20249  
Ion Ratio Lower Upper  
178 100  
176 18.1 15.4 23.0  
179 16.2 12.2 18.2



#75  
Fluoranthene  
Concen: 7.029 ng  
RT: 12.580 min Scan# 1783  
Delta R.T. 0.000 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

Tgt Ion:202 Resp: 64929  
Ion Ratio Lower Upper  
202 100  
101 9.8 0.0 31.2  
203 17.8 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.004 min Scan# 2025

Delta R.T. 0.000 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

Instrument :

BNA\_F

ClientSampleId :

TP6

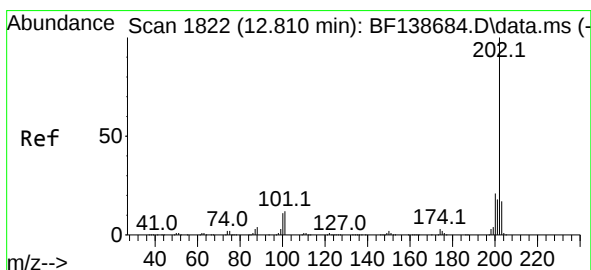
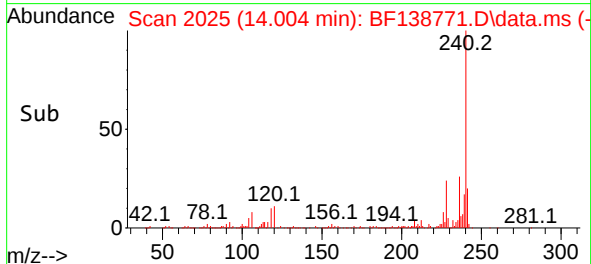
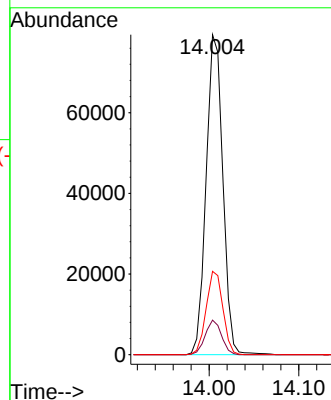
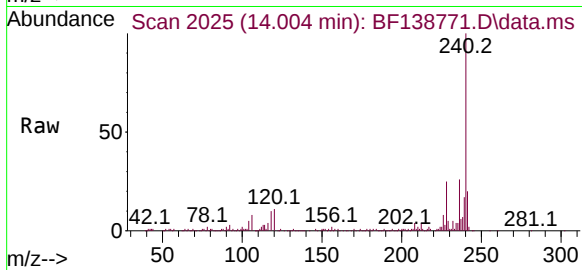
Tgt Ion:240 Resp: 102543

Ion Ratio Lower Upper

240 100

120 10.8 10.2 15.4

236 26.0 19.8 29.8



#78

Pyrene

Concen: 7.683 ng

RT: 12.810 min Scan# 1822

Delta R.T. 0.000 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

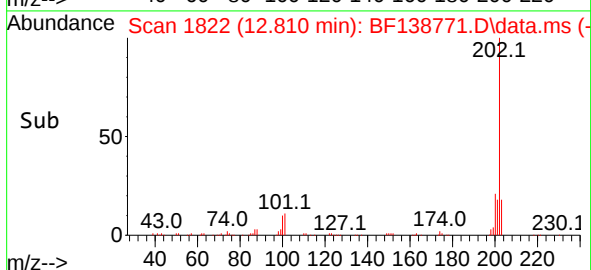
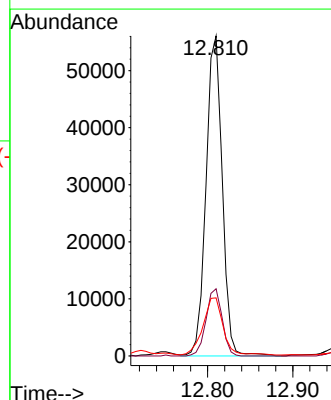
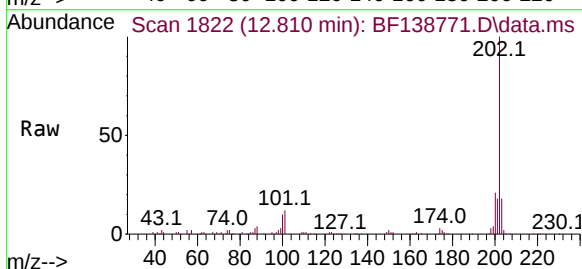
Tgt Ion:202 Resp: 74178

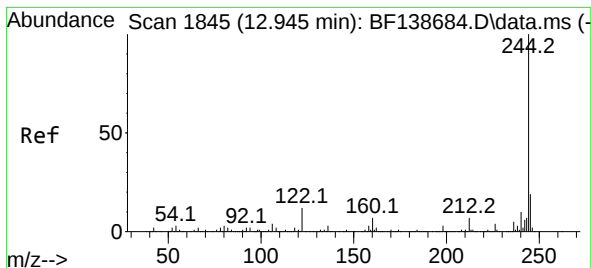
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 18.2 13.8 20.6





#79

Terphenyl-d14

Concen: 68.310 ng

RT: 12.951 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

Instrument :

BNA\_F

ClientSampleId :

TP6

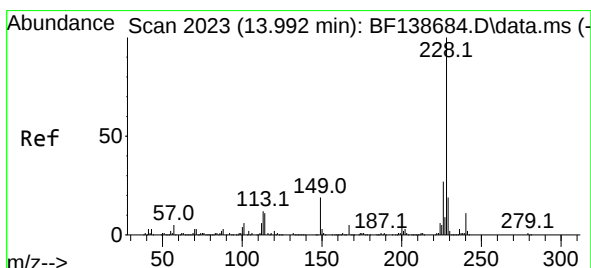
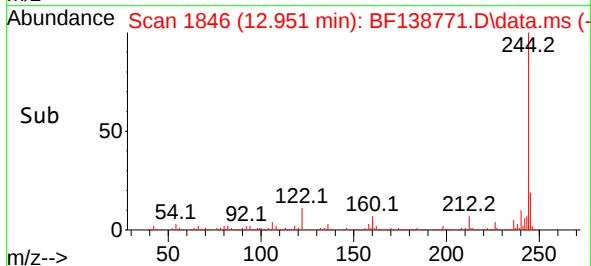
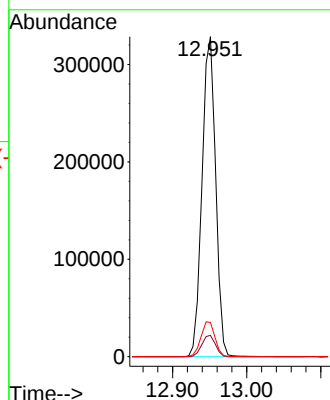
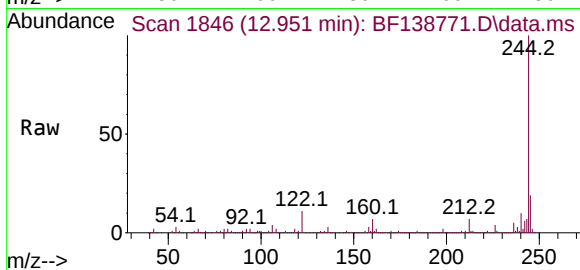
Tgt Ion:244 Resp: 418377

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

122 10.7 9.6 14.4



#81

Benzo(a)anthracene

Concen: 5.115 ng

RT: 13.998 min Scan# 2024

Delta R.T. 0.006 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

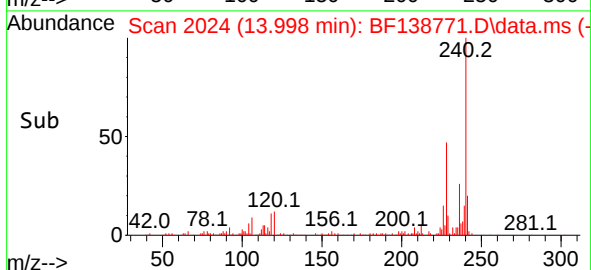
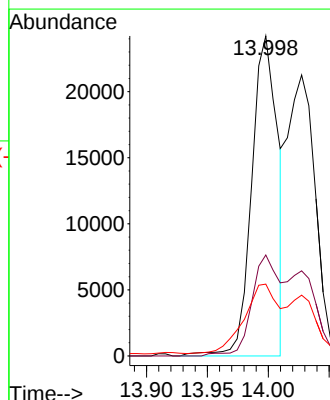
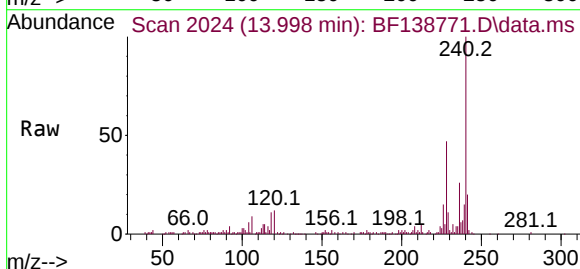
Tgt Ion:228 Resp: 36118

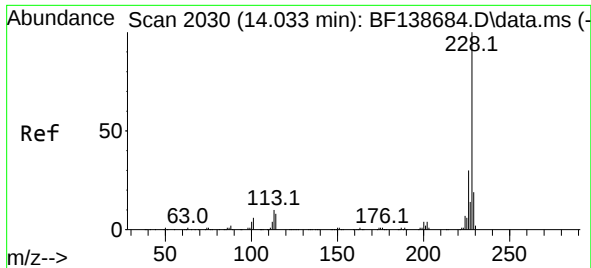
Ion Ratio Lower Upper

228 100

226 31.6 22.1 33.1

229 22.5 15.4 23.0





#83

Chrysene

Concen: 4.341 ng

RT: 14.027 min Scan# 2030

Delta R.T. -0.006 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

Instrument :

BNA\_F

ClientSampleId :

TP6

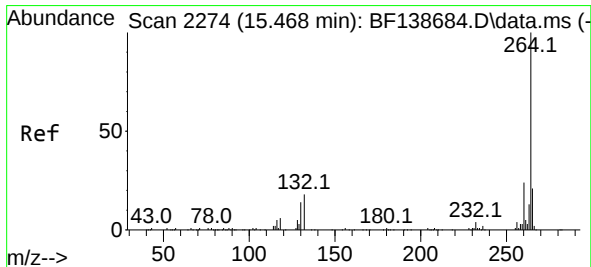
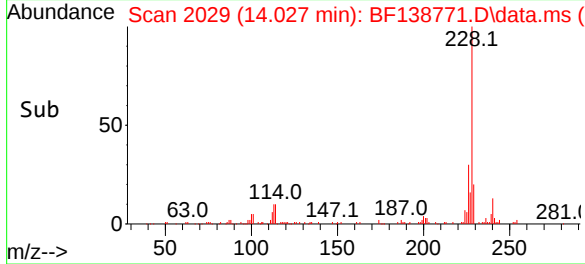
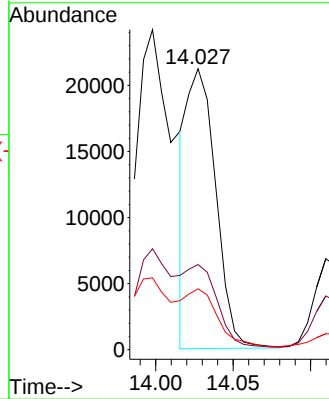
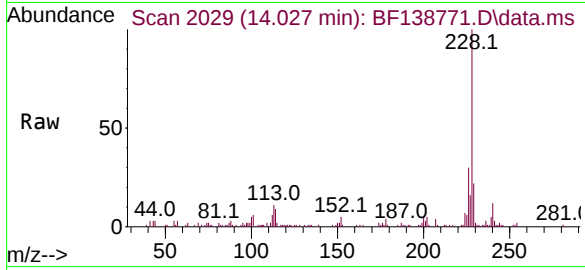
Tgt Ion:228 Resp: 27654

Ion Ratio Lower Upper

228 100

226 30.3 23.7 35.5

229 21.6 15.0 22.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.474 min Scan# 2275

Delta R.T. 0.006 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

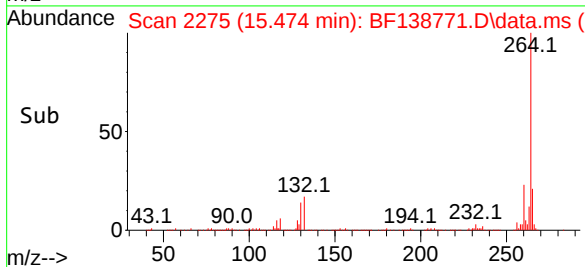
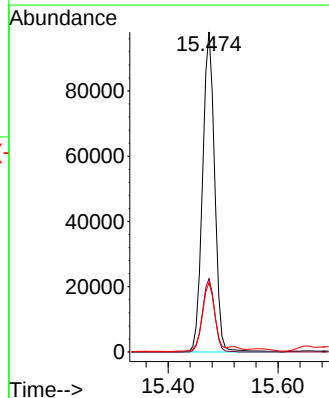
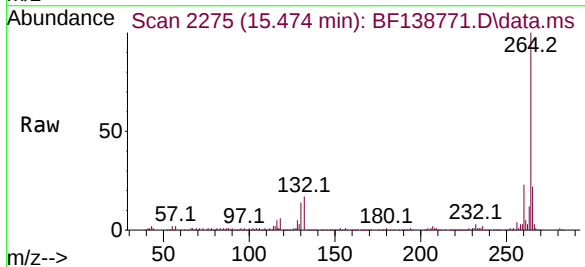
Tgt Ion:264 Resp: 150206

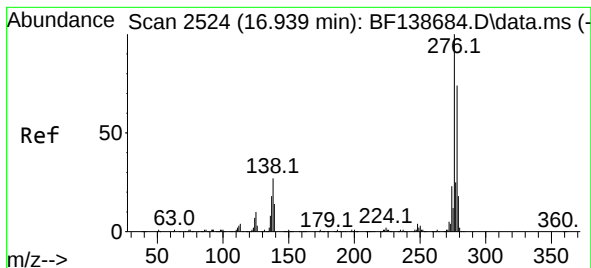
Ion Ratio Lower Upper

264 100

260 22.9 19.0 28.6

265 21.6 17.0 25.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.612 ng

RT: 16.939 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

Instrument :

BNA\_F

ClientSampleId :

TP6

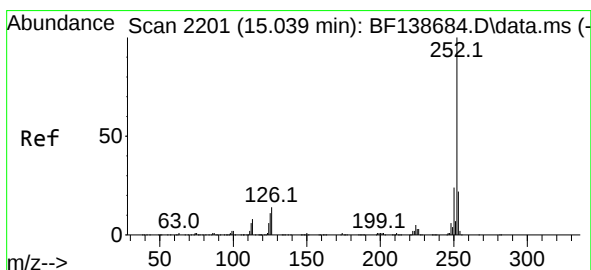
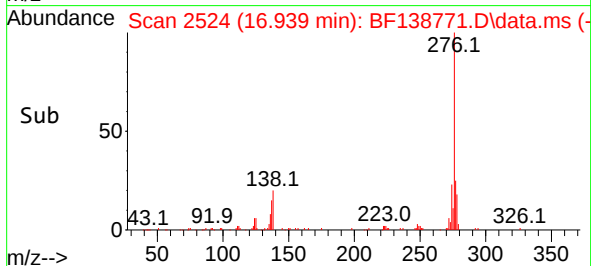
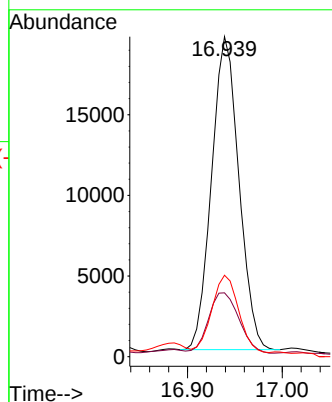
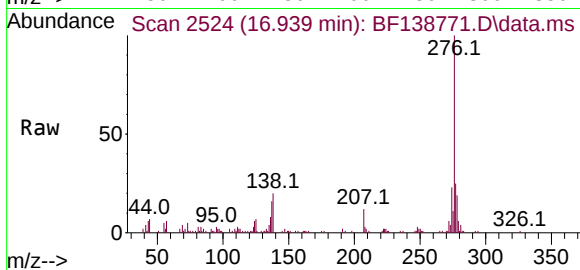
Tgt Ion:276 Resp: 38877

Ion Ratio Lower Upper

276 100

138 23.5 21.8 32.8

277 24.4 20.6 30.8



#88

Benzo(b)fluoranthene

Concen: 15.675 ng

RT: 15.045 min Scan# 2202

Delta R.T. 0.006 min

Lab File: BF138771.D

Acq: 03 Aug 2024 15:43

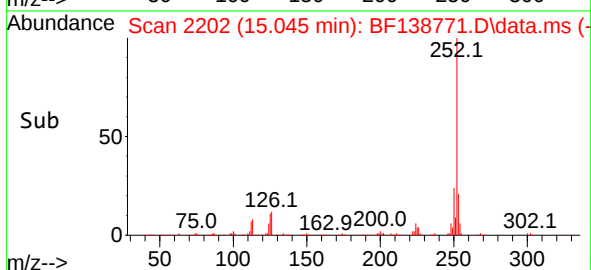
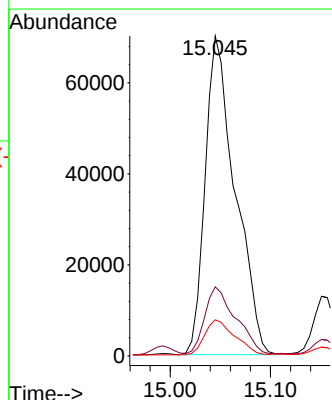
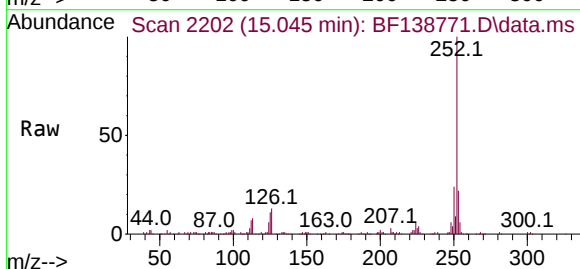
Tgt Ion:252 Resp: 145958

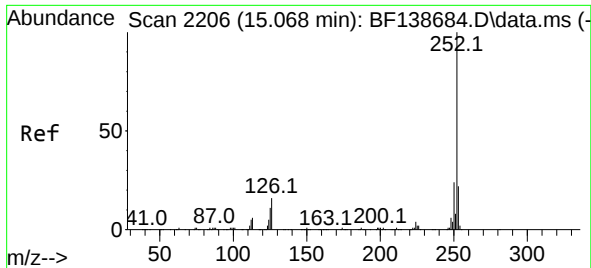
Ion Ratio Lower Upper

252 100

253 21.6 17.5 26.3

125 11.3 8.9 13.3

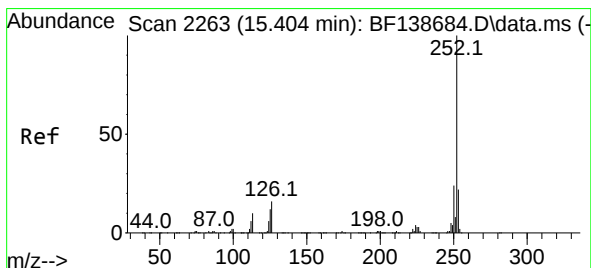
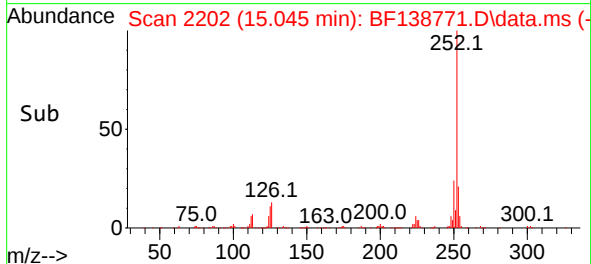
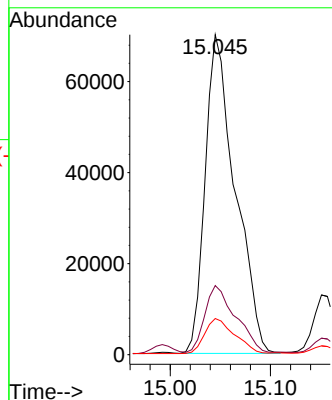
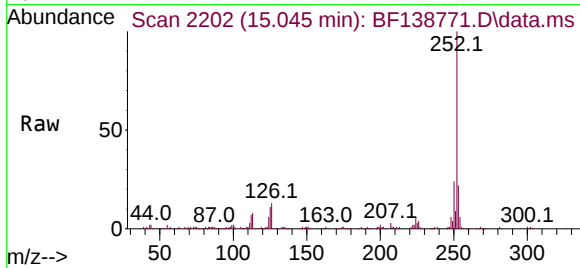




#89  
Benzo(k)fluoranthene  
Concen: 18.105 ng  
RT: 15.045 min Scan# 21  
Delta R.T. -0.023 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

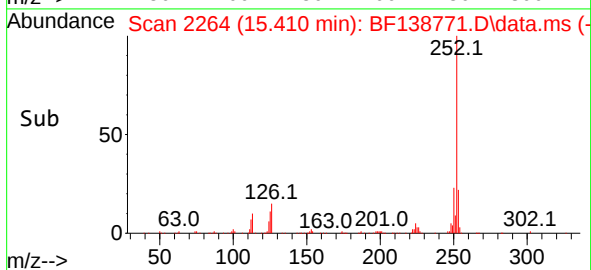
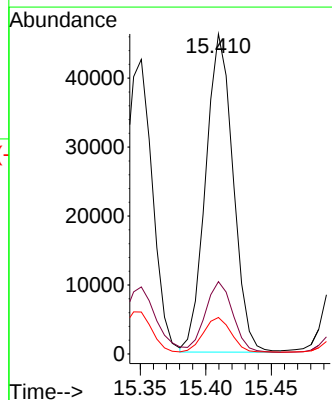
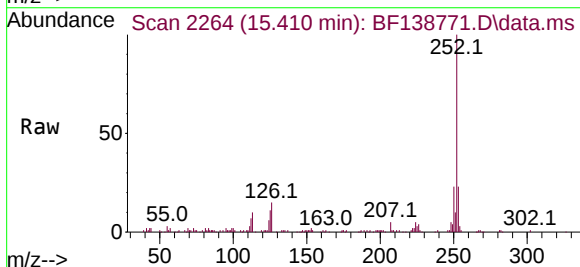
Instrument :  
BNA\_F  
ClientSampleId :  
TP6

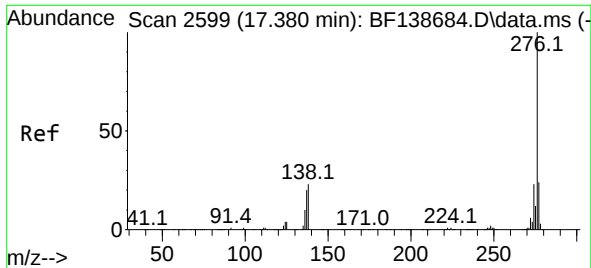
Tgt Ion:252 Resp: 145958  
Ion Ratio Lower Upper  
252 100  
253 21.6 17.4 26.0  
125 11.3 8.6 13.0



#90  
Benzo(a)pyrene  
Concen: 8.598 ng  
RT: 15.410 min Scan# 2264  
Delta R.T. 0.006 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

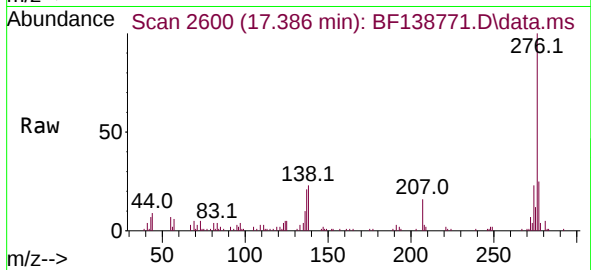
Tgt Ion:252 Resp: 67338  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.3 25.9  
125 11.4 9.5 14.3





#92  
Benzo(g,h,i)perylene  
Concen: 4.157 ng  
RT: 17.386 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: BF138771.D  
Acq: 03 Aug 2024 15:43

Instrument :  
BNA\_F  
ClientSampleId :  
TP6



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 38115 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.8  | 19.0  | 28.4  |
| 138      | 23.3  | 18.5  | 27.7  |

