

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121024\  
 Data File : BF140805.D  
 Acq On : 10 Dec 2024 14:31  
 Operator : RC/JU  
 Sample : P5176-03 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-03-12062024

Quant Time: Dec 10 15:57:58 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 21 15:23:48 2024  
 Response via : Initial Calibration

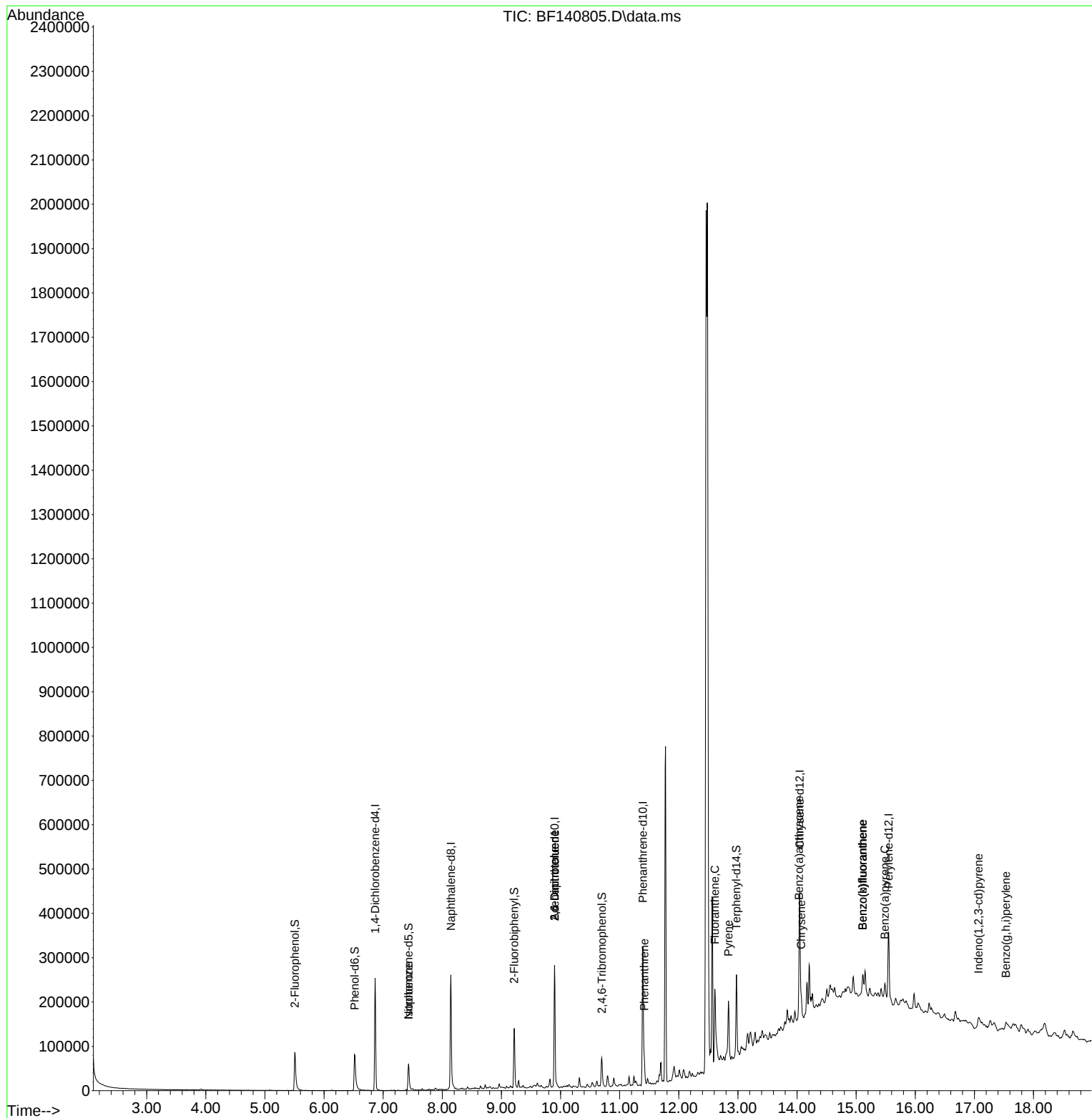
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.863  | 152  | 55246    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.145  | 136  | 174680   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.898  | 164  | 83234    | 20.000 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.392 | 188  | 169049   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 14.045 | 240  | 122566   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.551 | 264  | 92953    | 20.000 | ng    | 0.01     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.504  | 112  | 47037    | 14.527 | ng    | 0.00     |
| 7) Phenol-d6                | 6.516  | 99   | 58745    | 13.723 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.428  | 82   | 33856    | 9.914  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.698 | 330  | 13268    | 14.905 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.216  | 172  | 63352    | 11.340 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.974 | 244  | 88602    | 11.256 | ng    | -0.02    |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 25) Isophorone              | 7.428  | 82   | 33856    | 5.944  | ng    | # 66     |
| 51) 2,6-Dinitrotoluene      | 9.898  | 165  | 10881    | 8.752  | ng    | # 19     |
| 57) 2,4-Dinitrotoluene      | 9.898  | 165  | 10881    | 6.585  | ng    | # 17     |
| 71) Phenanthrene            | 11.416 | 178  | 29754    | 3.662  | ng    | 98       |
| 75) Fluoranthene            | 12.610 | 202  | 78616    | 8.911  | ng    | 99       |
| 78) Pyrene                  | 12.839 | 202  | 68187    | 6.017  | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.033 | 228  | 32734    | 4.035  | ng    | # 92     |
| 83) Chrysene                | 14.069 | 228  | 27998    | 3.774  | ng    | # 93     |
| 87) Indeno(1,2,3-cd)pyrene  | 17.068 | 276  | 12910    | 2.131  | ng    | 93       |
| 88) Benzo(b)fluoranthene    | 15.110 | 252  | 42183    | 7.225  | ng    | # 75     |
| 89) Benzo(k)fluoranthene    | 15.110 | 252  | 42183    | 8.256  | ng    | # 75     |
| 90) Benzo(a)pyrene          | 15.486 | 252  | 20301    | 4.276  | ng    | # 86     |
| 92) Benzo(g,h,i)perylene    | 17.533 | 276  | 14316    | 2.828  | ng    | # 83     |
| -----                       |        |      |          |        |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121024\  
Data File : BF140805.D  
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Operator : RC/JU  
Sample : P5176-03 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-12062024

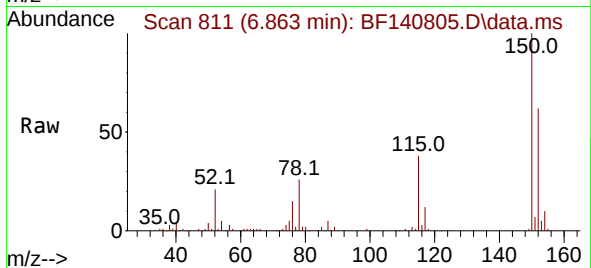
Quant Time: Dec 10 15:57:58 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 21 15:23:48 2024  
Response via : Initial Calibration



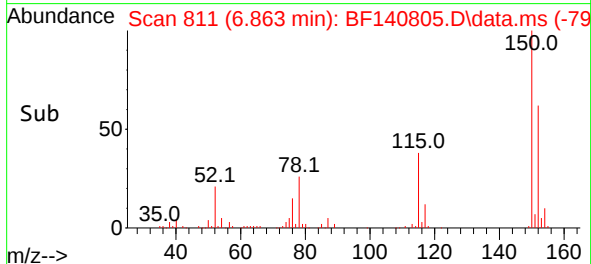
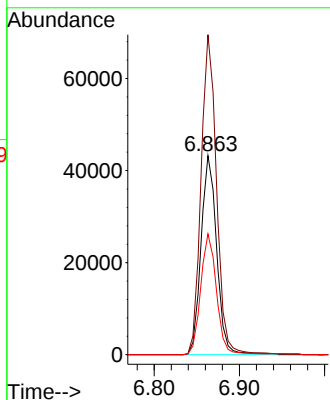


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.863 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-12062024

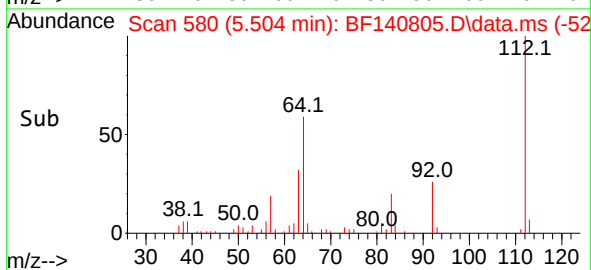
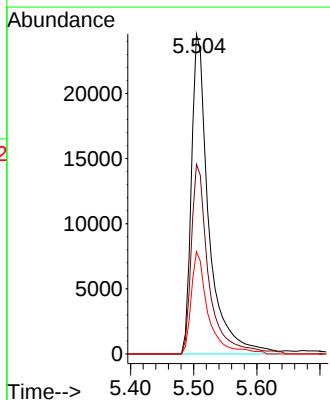
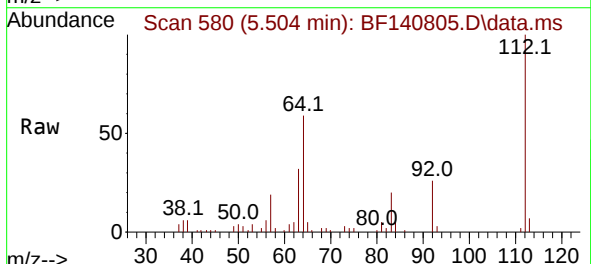


Tgt Ion:152 Resp: 55246  
Ion Ratio Lower Upper  
152 100  
150 160.8 128.5 192.7  
115 60.7 50.2 75.4



#5  
2-Fluorophenol  
Concen: 14.527 ng  
RT: 5.504 min Scan# 580  
Delta R.T. 0.006 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

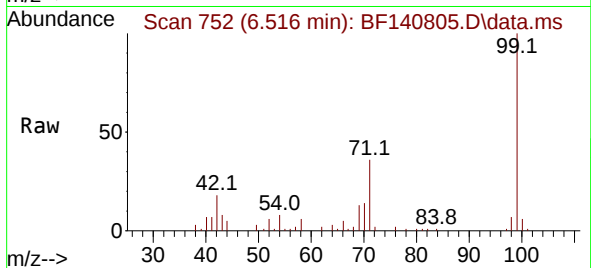
Tgt Ion:112 Resp: 47037  
Ion Ratio Lower Upper  
112 100  
64 59.3 49.2 73.8  
63 31.9 27.0 40.4



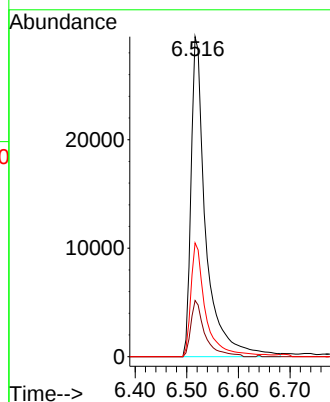
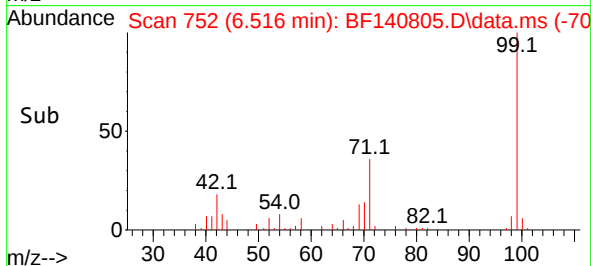


#7  
Phenol-d6  
Concen: 13.723 ng  
RT: 6.516 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

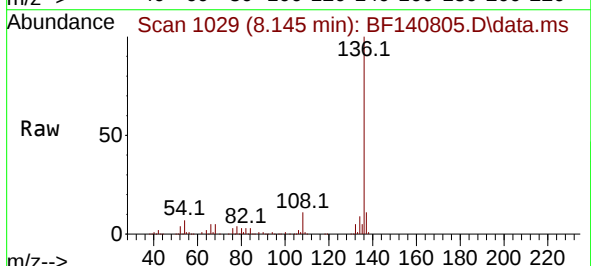
Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-12062024



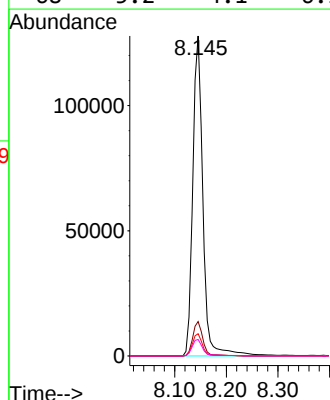
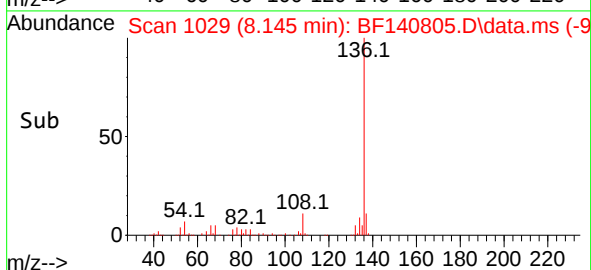
Tgt Ion: 99 Resp: 58745  
Ion Ratio Lower Upper  
99 100  
42 17.6 15.4 23.0  
71 35.5 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.145 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31



Tgt Ion: 136 Resp: 174680  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.6 13.0  
54 7.0 5.8 8.8  
68 5.2 4.1 6.1





#23

Nitrobenzene-d5

Concen: 9.914 ng

RT: 7.428 min Scan# 907

Delta R.T. -0.012 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

Instrument :

BNA\_F

ClientSampleId :

EO-03-12062024

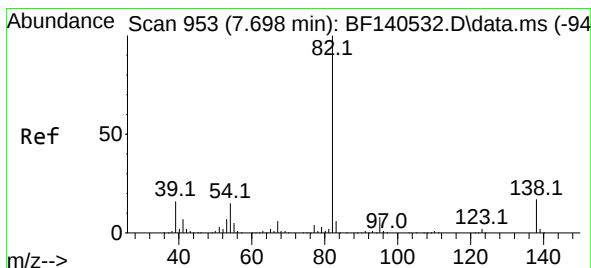
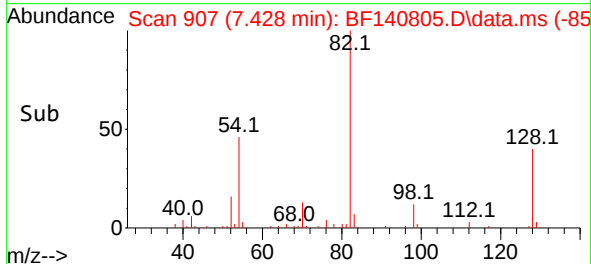
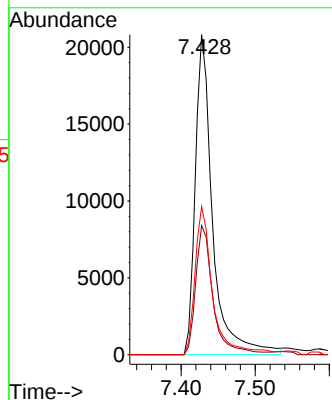
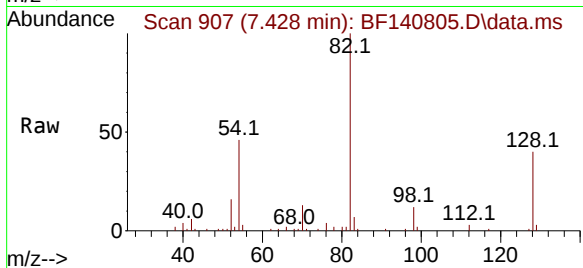
Tgt Ion: 82 Resp: 33856

Ion Ratio Lower Upper

82 100

128 40.3 33.0 49.4

54 46.3 39.5 59.3



#25

Isophorone

Concen: 5.944 ng

RT: 7.428 min Scan# 907

Delta R.T. -0.271 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

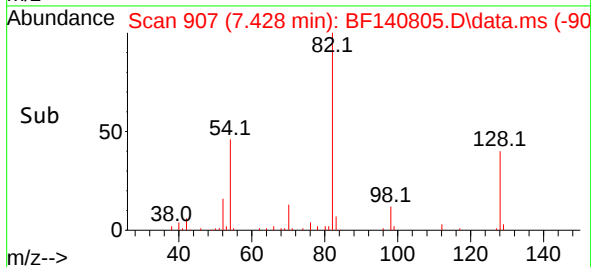
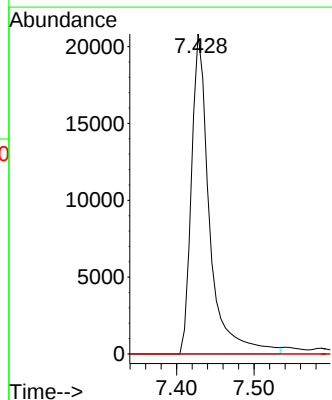
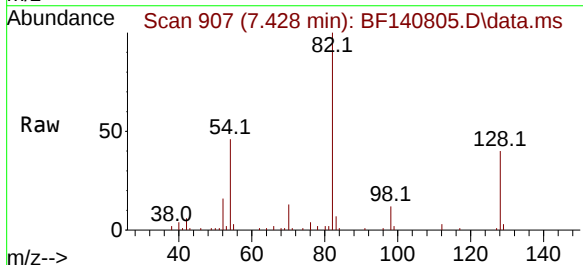
Tgt Ion: 82 Resp: 33856

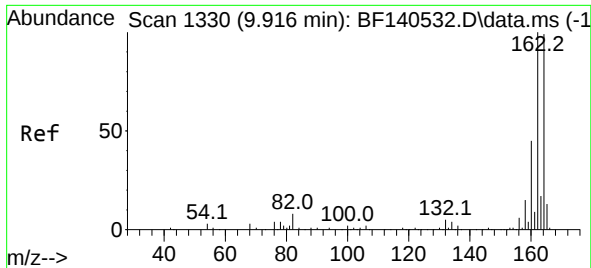
Ion Ratio Lower Upper

82 100

95 0.0 6.4 9.6#

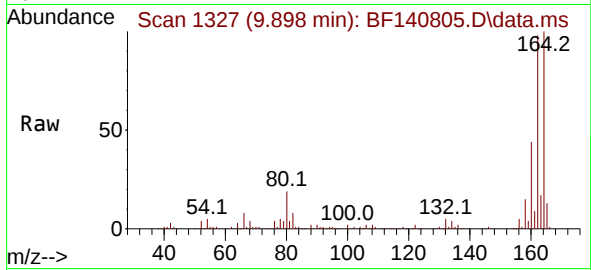
138 0.0 13.8 20.6#



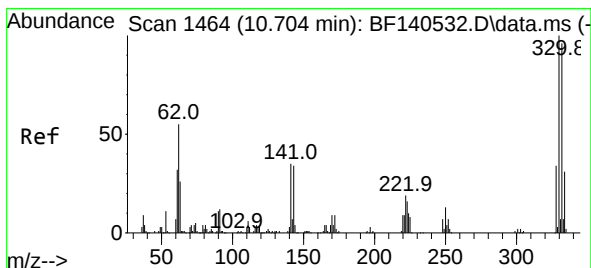
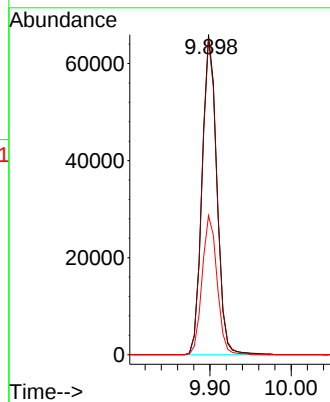
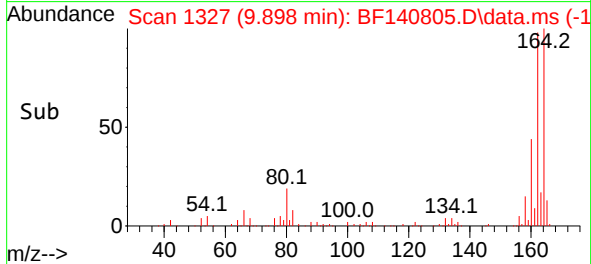


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.898 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

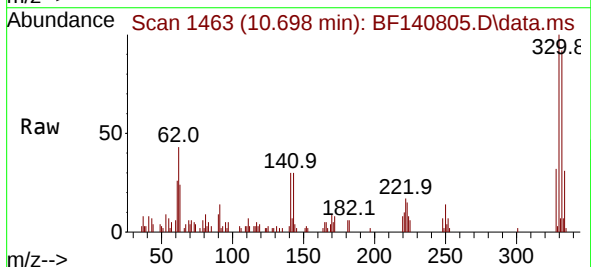
Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-12062024



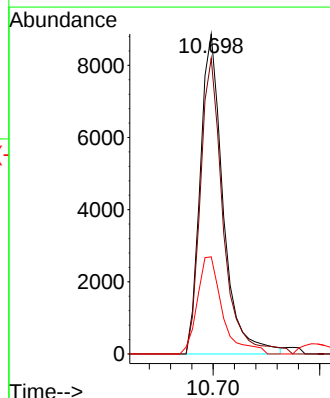
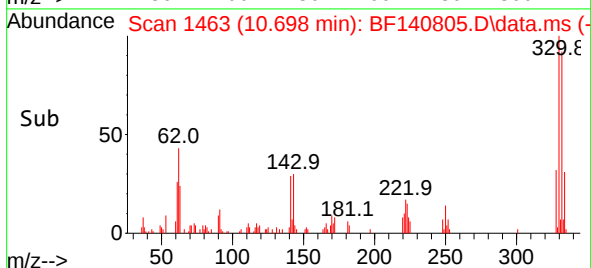
Tgt Ion:164 Resp: 83234  
Ion Ratio Lower Upper  
164 100  
162 98.5 80.6 120.8  
160 43.5 36.2 54.4

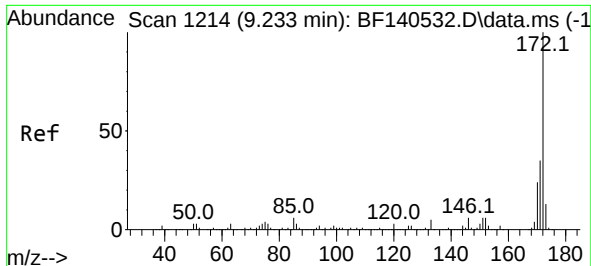


#42  
2,4,6-Tribromophenol  
Concen: 14.905 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.006 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31



Tgt Ion:330 Resp: 13268  
Ion Ratio Lower Upper  
330 100  
332 91.2 76.9 115.3  
141 33.2 26.7 40.1

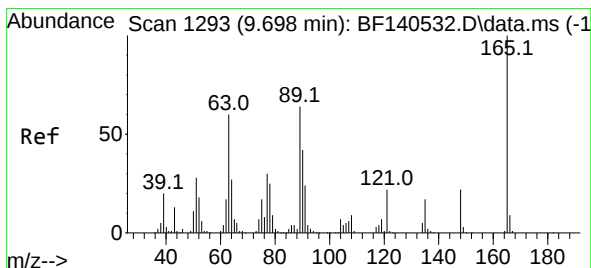
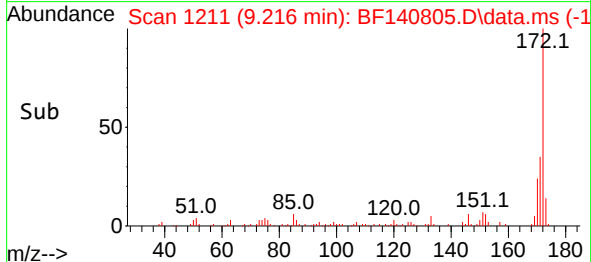
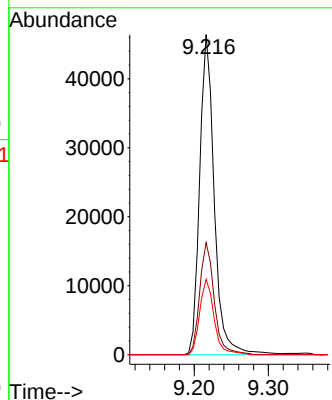
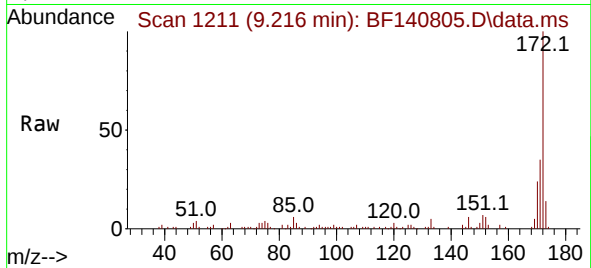




#45  
2-Fluorobiphenyl  
Concen: 11.340 ng  
RT: 9.216 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

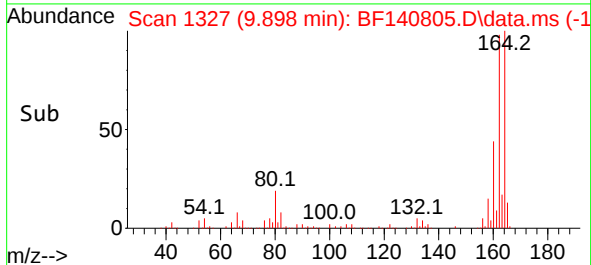
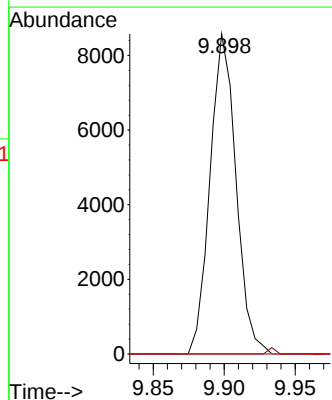
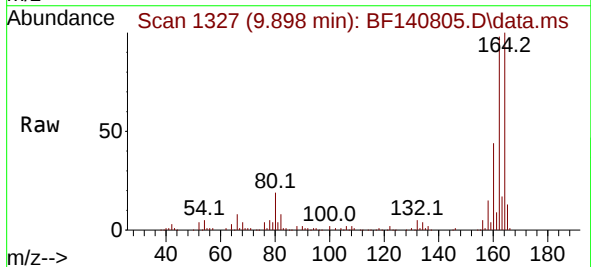
Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-12062024

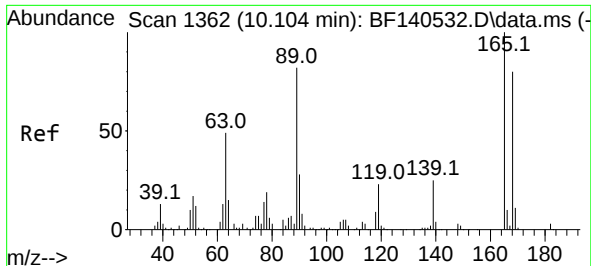
Tgt Ion:172 Resp: 63352  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.4 42.6  
170 23.5 19.0 28.6



#51  
2,6-Dinitrotoluene  
Concen: 8.752 ng  
RT: 9.898 min Scan# 1327  
Delta R.T. 0.200 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

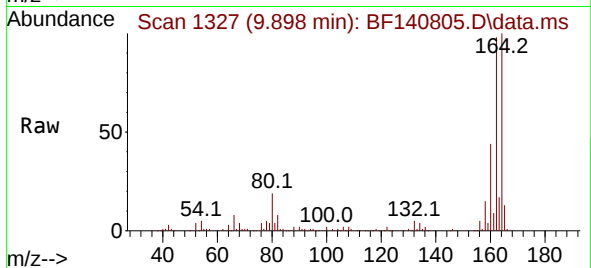
Tgt Ion:165 Resp: 10881  
Ion Ratio Lower Upper  
165 100  
63 0.0 49.9 74.9#  
89 0.0 50.9 76.3#



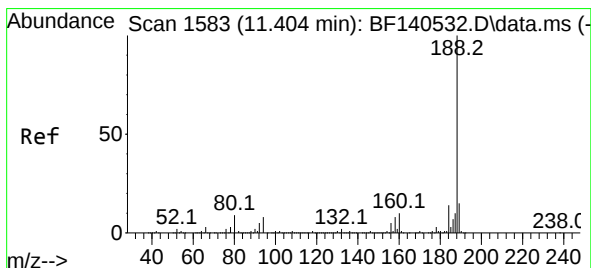
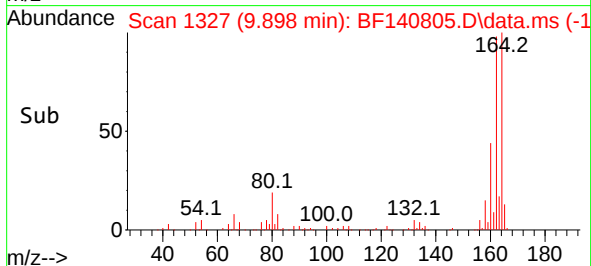
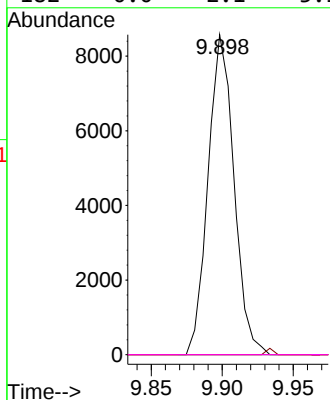


#57  
2,4-Dinitrotoluene  
Concen: 6.585 ng  
RT: 9.898 min Scan# 11  
Delta R.T. -0.206 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-12062024

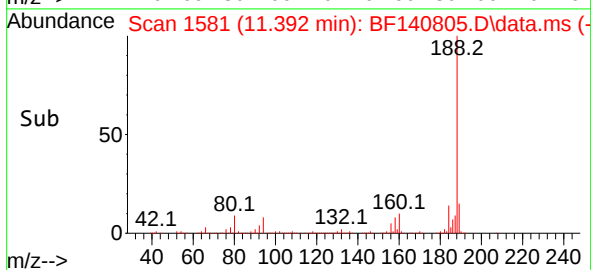
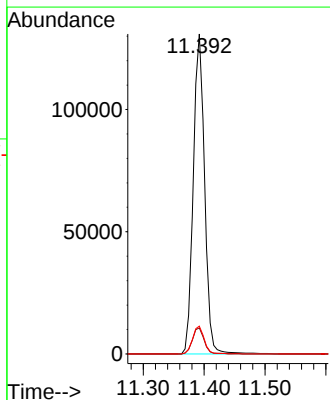
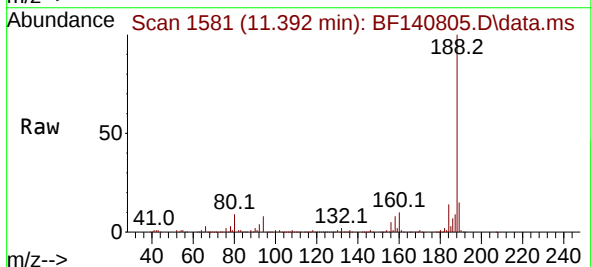


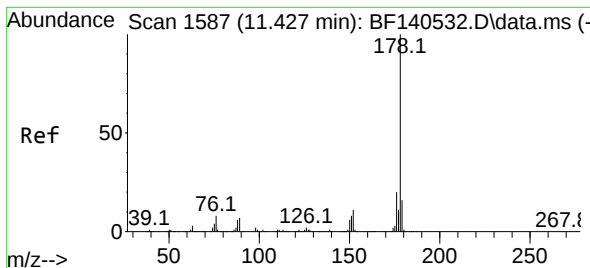
Tgt Ion:165 Resp: 10881  
Ion Ratio Lower Upper  
165 100  
63 0.0 41.7 62.5#  
89 0.0 65.8 98.8#  
182 0.0 2.1 3.1#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.392 min Scan# 1581  
Delta R.T. -0.012 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

Tgt Ion:188 Resp: 169049  
Ion Ratio Lower Upper  
188 100  
94 8.2 6.4 9.6  
80 8.7 6.9 10.3





#71

Phenanthrene

Concen: 3.662 ng

RT: 11.416 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

Instrument :

BNA\_F

ClientSampleId :

EO-03-12062024

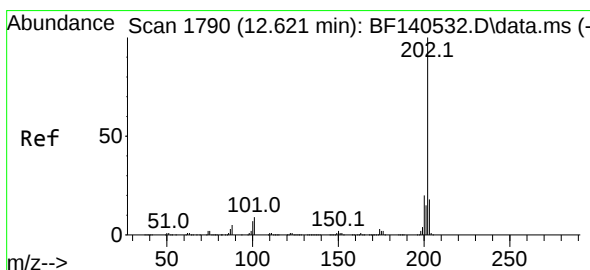
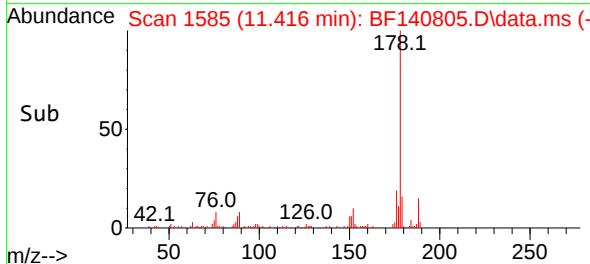
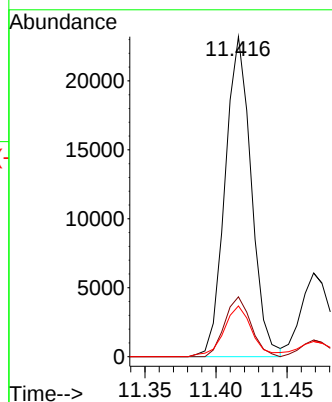
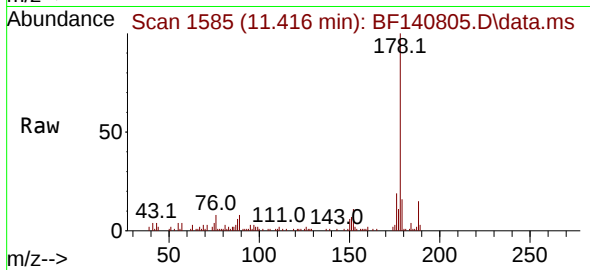
Tgt Ion:178 Resp: 29754

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.6

179 15.8 12.4 18.6



#75

Fluoranthene

Concen: 8.911 ng

RT: 12.610 min Scan# 1788

Delta R.T. -0.012 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

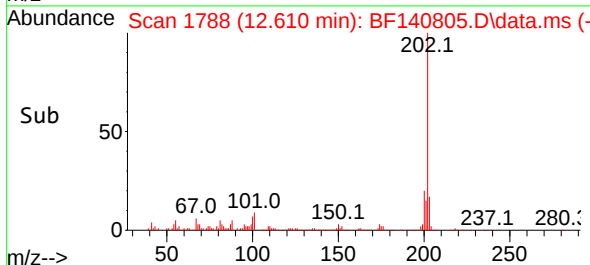
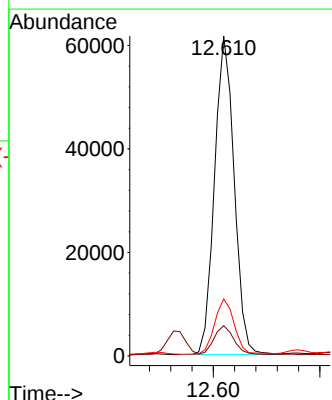
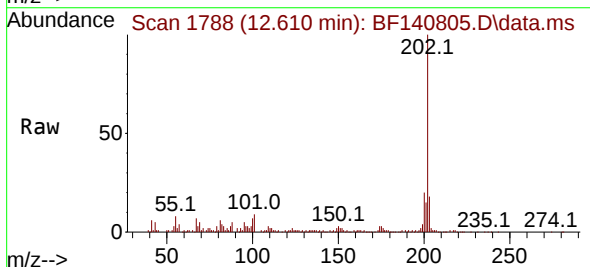
Tgt Ion:202 Resp: 78616

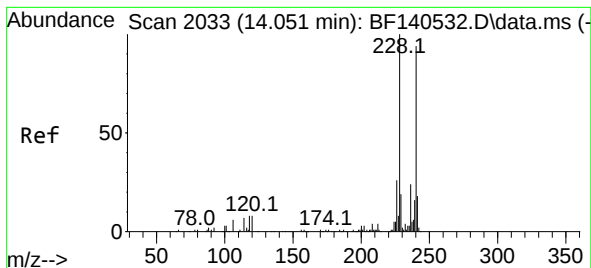
Ion Ratio Lower Upper

202 100

101 9.5 0.0 28.9

203 17.8 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2033

Delta R.T. -0.006 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

Instrument :

BNA\_F

ClientSampleId :

EO-03-12062024

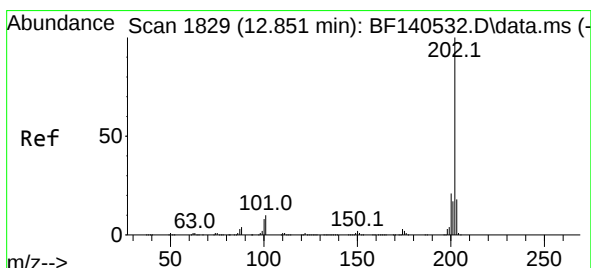
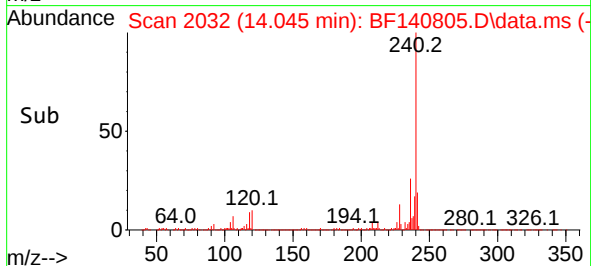
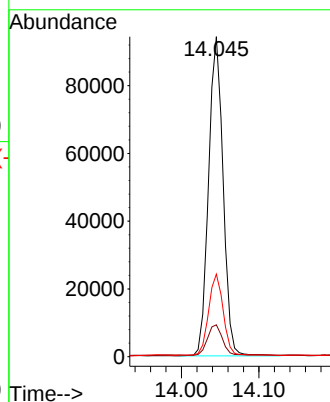
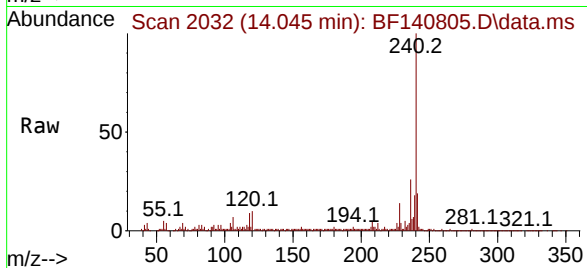
Tgt Ion:240 Resp: 122566

Ion Ratio Lower Upper

240 100

120 10.0 7.3 10.9

236 25.8 20.6 31.0



#78

Pyrene

Concen: 6.017 ng

RT: 12.839 min Scan# 1827

Delta R.T. -0.012 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

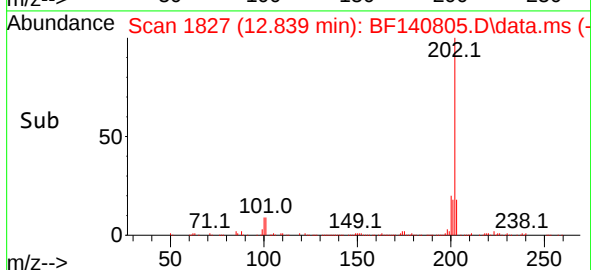
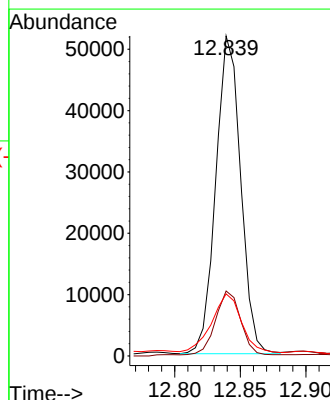
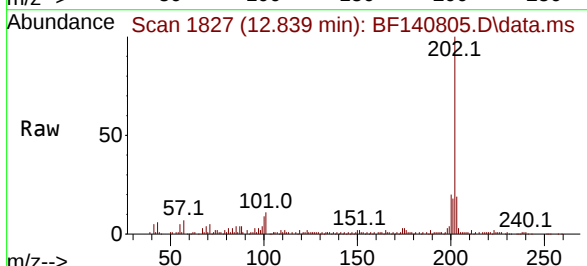
Tgt Ion:202 Resp: 68187

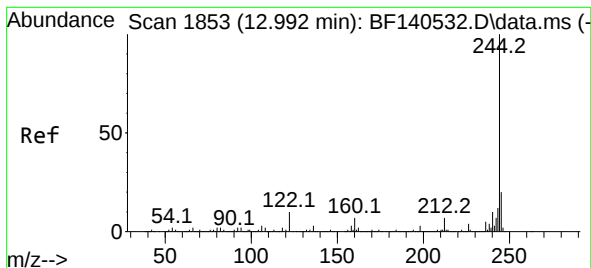
Ion Ratio Lower Upper

202 100

200 20.3 16.5 24.7

203 19.4 14.2 21.4





#79

Terphenyl-d14

Concen: 11.256 ng

RT: 12.974 min Scan# 1850

Delta R.T. -0.018 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

Instrument :

BNA\_F

ClientSampleId :

EO-03-12062024

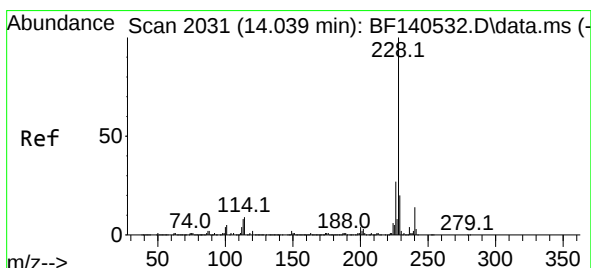
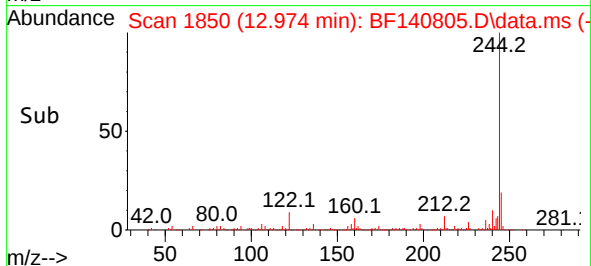
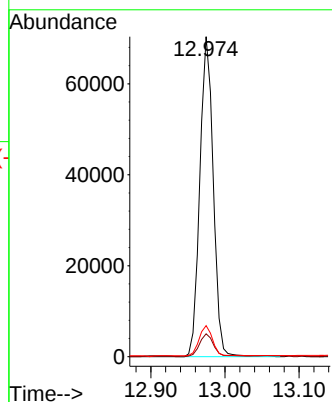
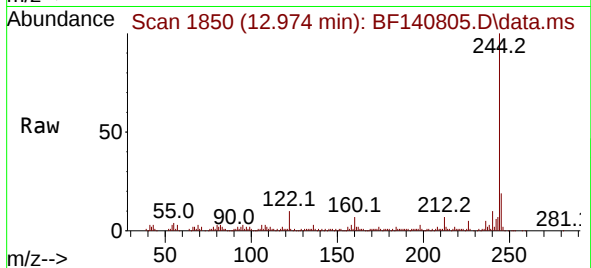
Tgt Ion:244 Resp: 88602

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

122 9.7 8.0 12.0



#81

Benzo(a)anthracene

Concen: 4.035 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.006 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

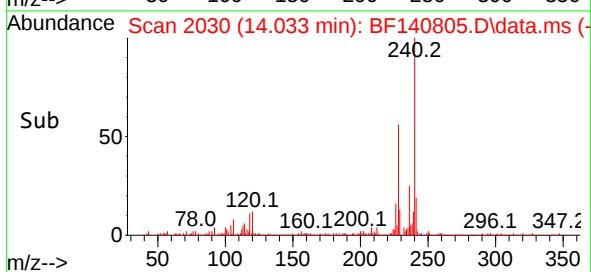
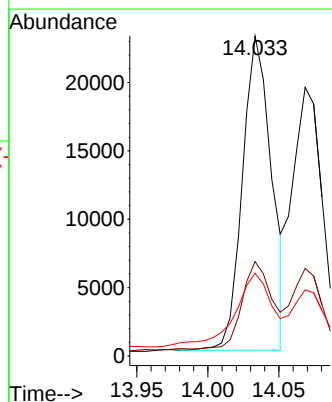
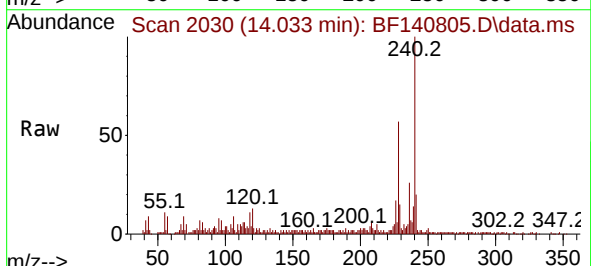
Tgt Ion:228 Resp: 32734

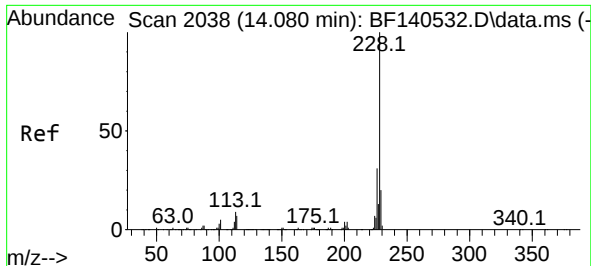
Ion Ratio Lower Upper

228 100

226 29.5 21.8 32.8

229 25.8 15.8 23.6#

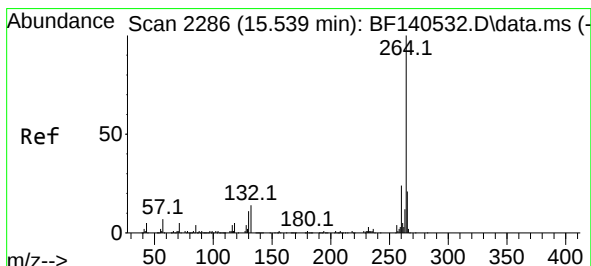
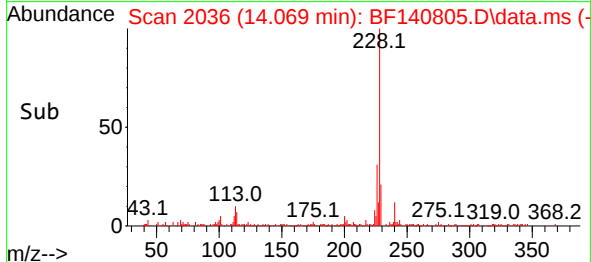
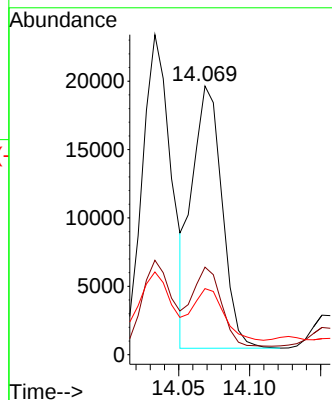
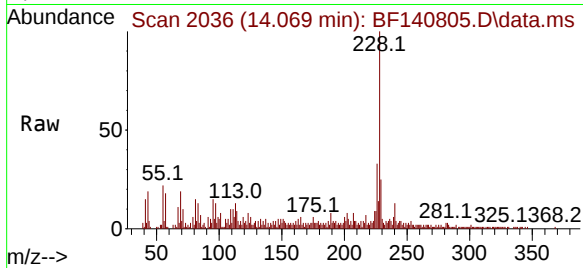




#83  
Chrysene  
Concen: 3.774 ng  
RT: 14.069 min Scan# 2038  
Delta R.T. -0.012 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

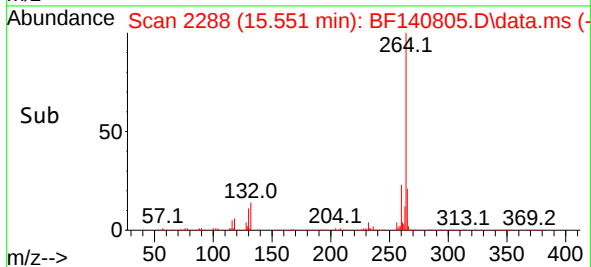
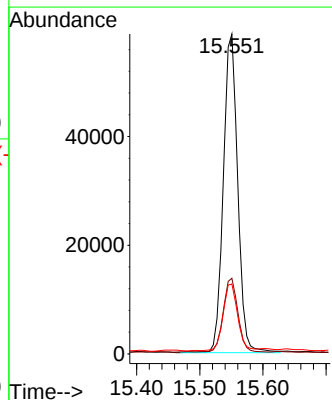
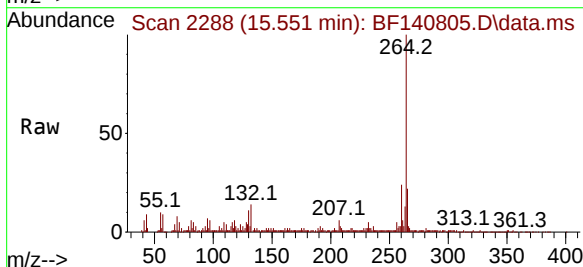
Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-12062024

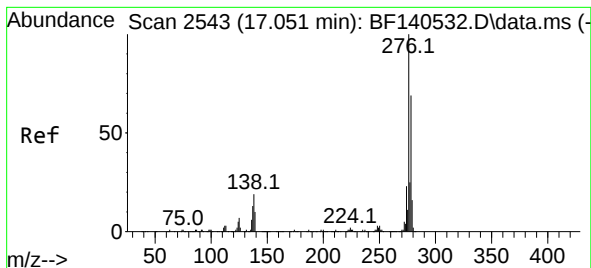
Tgt Ion:228 Resp: 27998  
Ion Ratio Lower Upper  
228 100  
226 32.6 24.4 36.6  
229 24.6 15.8 23.6#



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.551 min Scan# 2288  
Delta R.T. 0.012 min  
Lab File: BF140805.D  
Acq: 10 Dec 2024 14:31

Tgt Ion:264 Resp: 92953  
Ion Ratio Lower Upper  
264 100  
260 23.6 19.0 28.6  
265 21.8 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.131 ng

RT: 17.068 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

Instrument :

BNA\_F

ClientSampleId :

EO-03-12062024

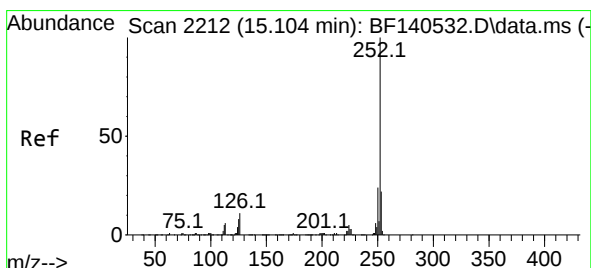
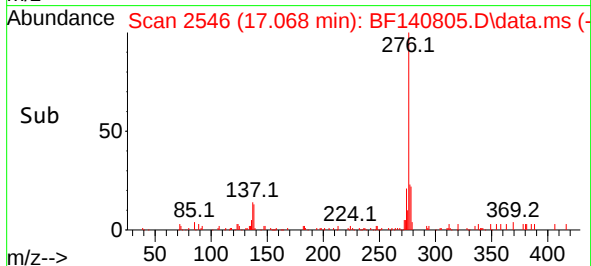
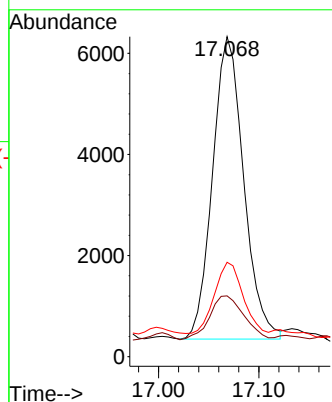
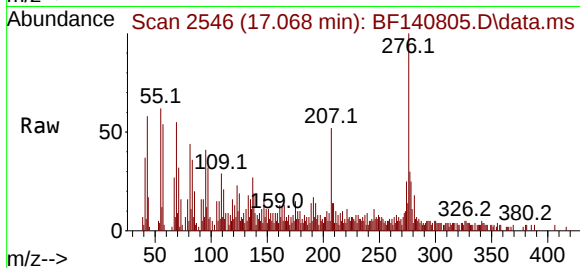
Tgt Ion:276 Resp: 12910

Ion Ratio Lower Upper

276 100

138 16.0 15.5 23.3

277 21.5 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 7.225 ng

RT: 15.110 min Scan# 2213

Delta R.T. 0.006 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

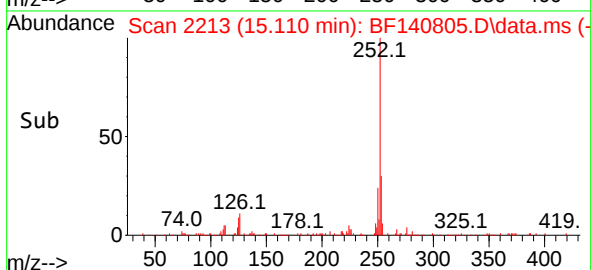
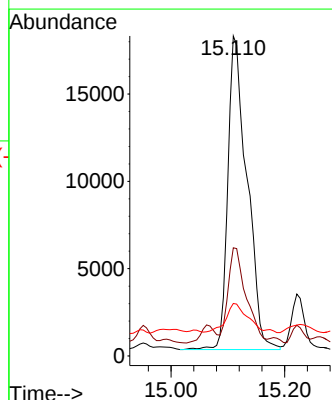
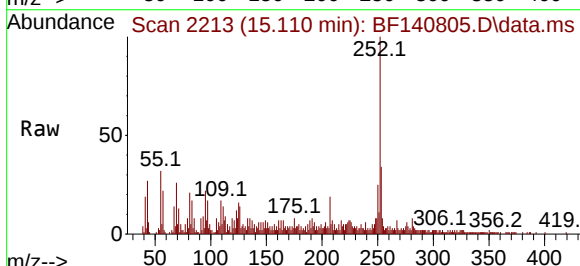
Tgt Ion:252 Resp: 42183

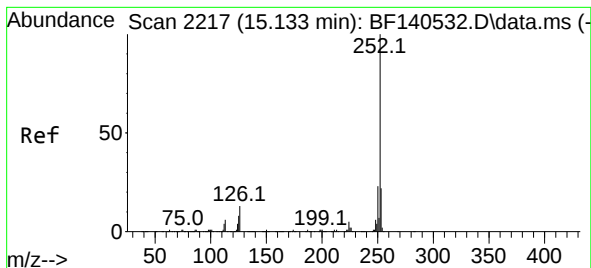
Ion Ratio Lower Upper

252 100

253 33.8 17.2 25.8#

125 16.4 6.7 10.1#





#89

Benzo(k)fluoranthene

Concen: 8.256 ng

RT: 15.110 min Scan# 2213

Delta R.T. -0.023 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

Instrument :

BNA\_F

ClientSampleId :

EO-03-12062024

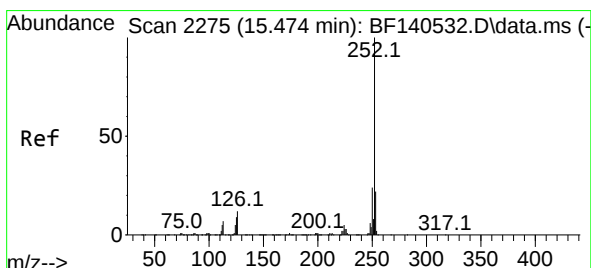
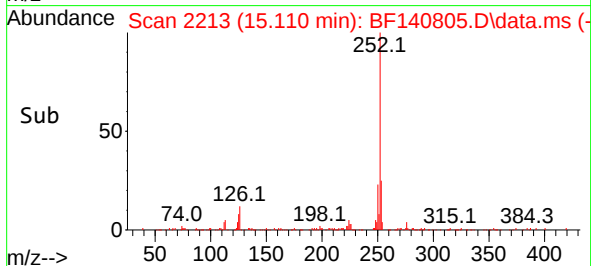
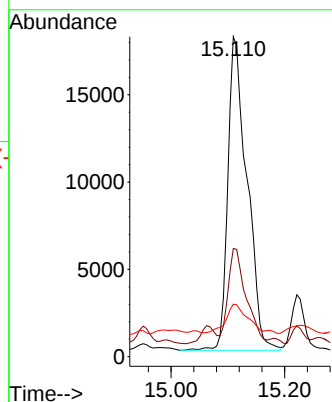
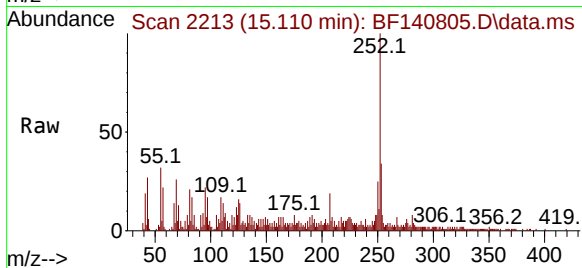
Tgt Ion:252 Resp: 42183

Ion Ratio Lower Upper

252 100

253 33.8 17.5 26.3#

125 16.4 6.5 9.7#



#90

Benzo(a)pyrene

Concen: 4.276 ng

RT: 15.486 min Scan# 2277

Delta R.T. 0.012 min

Lab File: BF140805.D

Acq: 10 Dec 2024 14:31

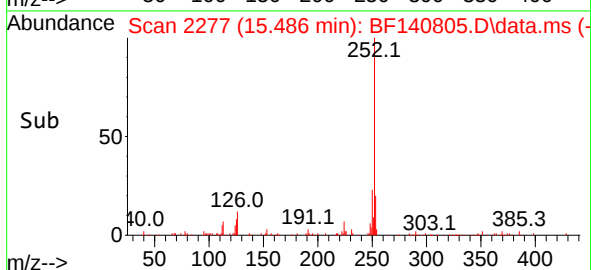
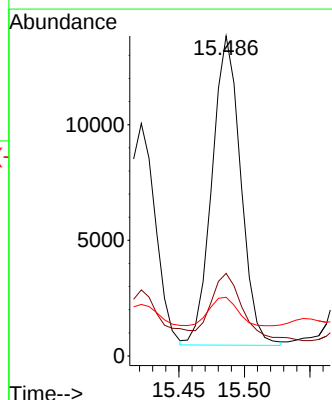
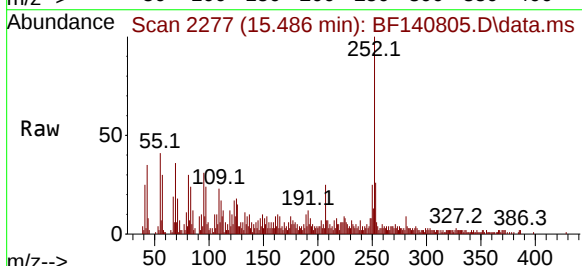
Tgt Ion:252 Resp: 20301

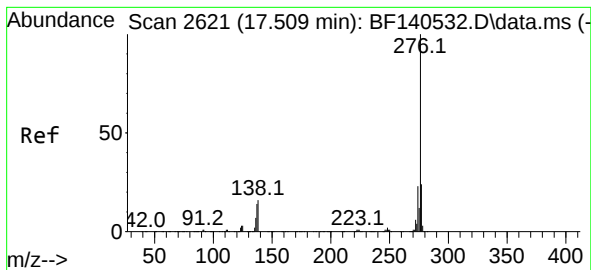
Ion Ratio Lower Upper

252 100

253 25.8 17.3 25.9

125 18.4 7.0 10.6#





#92

Benzo(g,h,i)perylene

Concen: 2.828 ng

RT: 17.533 min Scan# 20

Delta R.T. 0.024 min

Lab File: BF140805.D

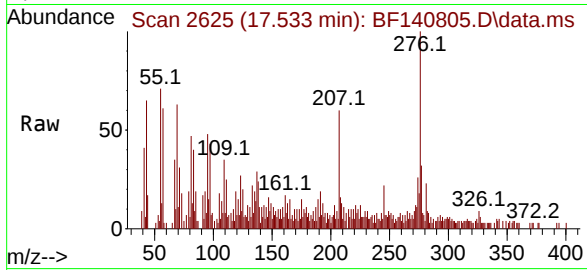
Acq: 10 Dec 2024 14:31

Instrument :

BNA\_F

ClientSampleId :

EO-03-12062024



Tgt Ion:276 Resp: 14316

Ion Ratio Lower Upper

276 100

277 32.0 18.9 28.3#

138 23.6 13.2 19.8#

