

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082522\  
 Data File : BF130007.D  
 Acq On : 25 Aug 2022 19:27  
 Operator : CG\JU  
 Sample : N4326-01 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-082322

Quant Time: Aug 26 01:02:12 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF081422.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 25 14:45:09 2022  
 Response via : Initial Calibration

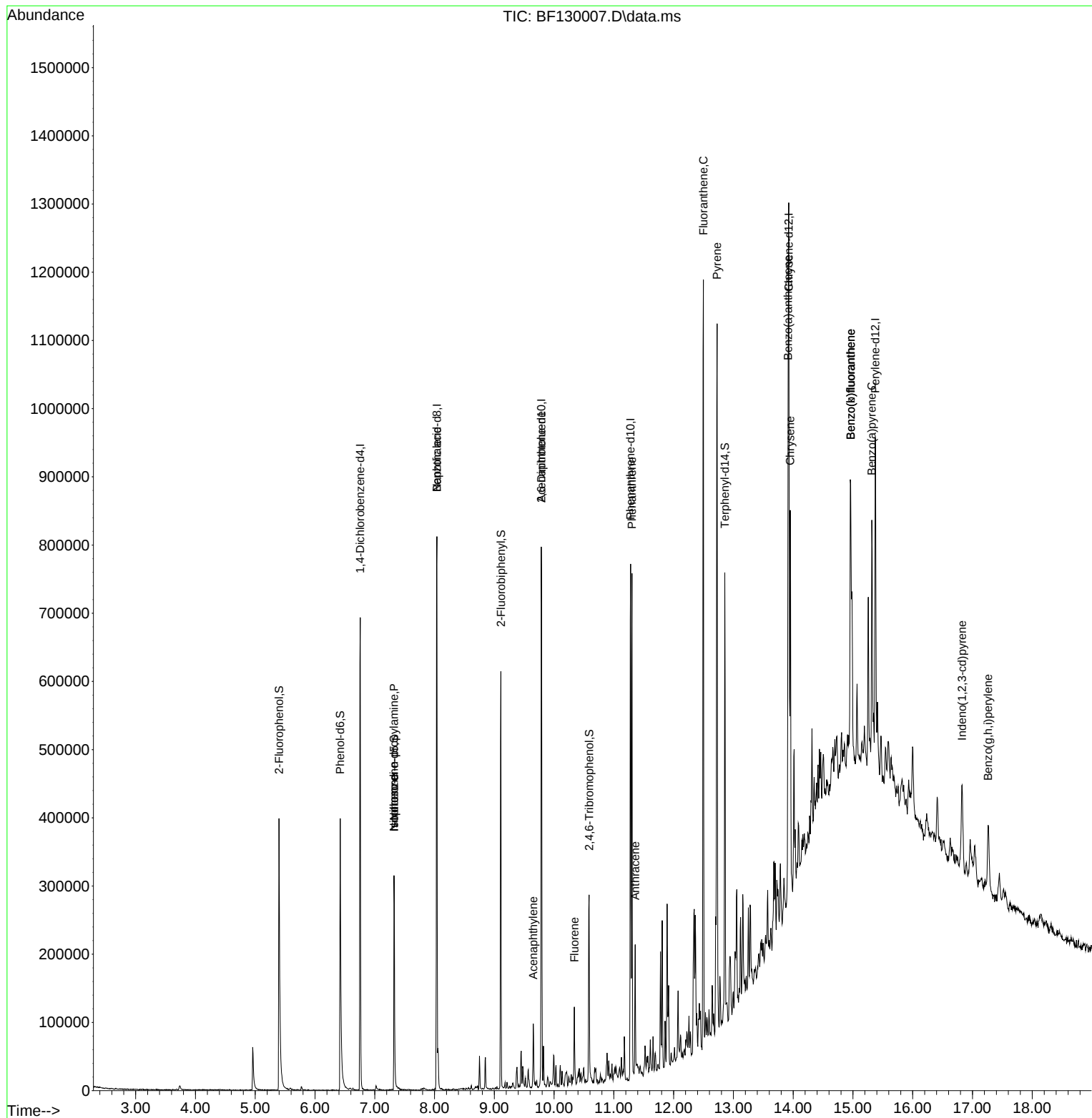
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.757  | 152  | 101368   | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.039  | 136  | 361346   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.786  | 164  | 158406   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.280 | 188  | 262659   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 13.927 | 240  | 272057   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 15.374 | 264  | 221398   | 20.000    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.398  | 112  | 142670   | 23.303    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.422  | 99   | 162168   | 21.152    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.322  | 82   | 104007   | 15.408    | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.586 | 330  | 30676    | 19.295    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.110  | 172  | 167435   | 16.054    | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.857 | 244  | 190444   | 11.648    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.428  | 77   | 352      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propyla... | 7.322  | 70   | 13406    | 2.766     | ng    | # 87     |
| 25) Isophorone                | 7.322  | 82   | 104006   | 8.952     | ng    | # 65     |
| 32) Benzoic acid              | 8.039  | 122  | 113      | 2.218     | ng    | # 1      |
| 49) Acenaphthylene            | 9.651  | 152  | 35578    | 2.464     | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.786  | 165  | 20599    | 8.362     | ng    | # 23     |
| 58) Fluorene                  | 10.339 | 166  | 25062    | 2.281     | ng    | 92       |
| 71) Phenanthrene              | 11.304 | 178  | 255337   | 17.406    | ng    | 98       |
| 72) Anthracene                | 11.357 | 178  | 71050    | 4.870     | ng    | 98       |
| 75) Fluoranthene              | 12.498 | 202  | 422711   | 28.160    | ng    | 98       |
| 77) Benzidine                 | 12.621 | 184  | 528      | Below Cal | #     | 1        |
| 78) Pyrene                    | 12.727 | 202  | 413954   | 17.510    | ng    | 99       |
| 81) Benzo(a)anthracene        | 13.915 | 228  | 244440   | 13.061    | ng    | 98       |
| 83) Chrysene                  | 13.951 | 228  | 209093   | 11.935    | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.827 | 276  | 82622    | 5.436     | ng    | # 93     |
| 88) Benzo(b)fluoranthene      | 14.962 | 252  | 307404   | 20.277    | ng    | 94       |
| 89) Benzo(k)fluoranthene      | 14.962 | 252  | 307404   | 21.144    | ng    | 94       |
| 90) Benzo(a)pyrene            | 15.315 | 252  | 164632   | 13.790    | ng    | # 96     |
| 92) Benzo(g,h,i)perylene      | 17.262 | 276  | 76442    | 6.110     | ng    | 94       |
| -----                         |        |      |          |           |       |          |

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

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Instrument :  
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SU-03-082322

Quant Time: Aug 26 01:02:12 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF081422.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 25 14:45:09 2022  
Response via : Initial Calibration

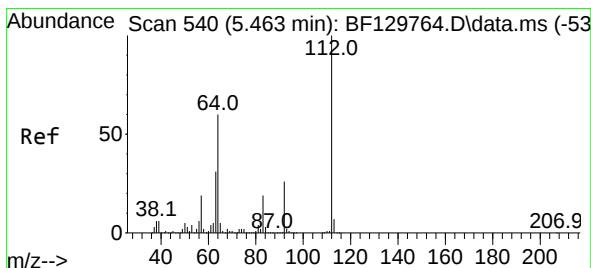
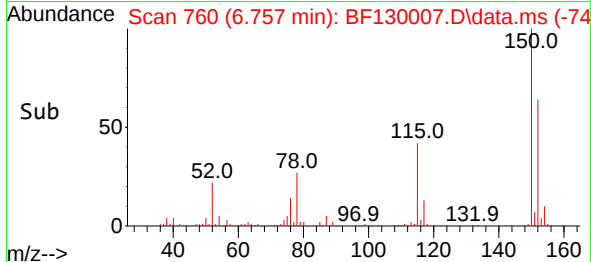
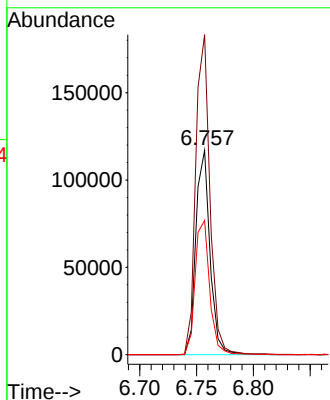
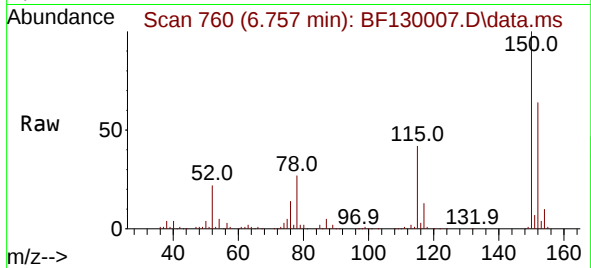




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.757 min Scan# 70  
Delta R.T. 0.000 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

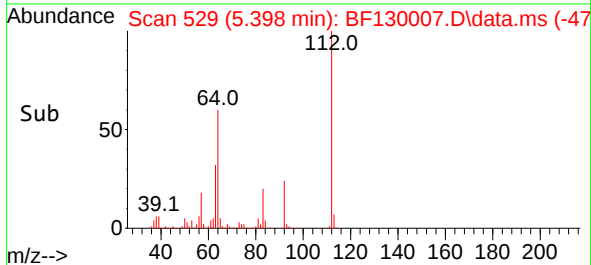
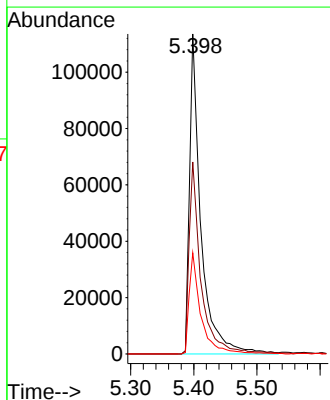
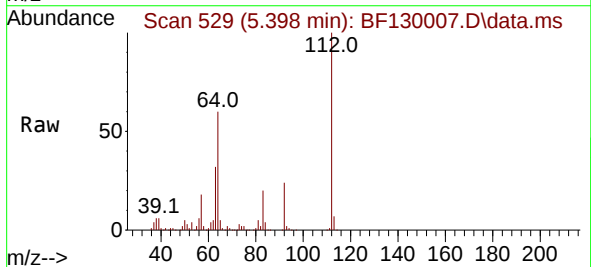
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-082322

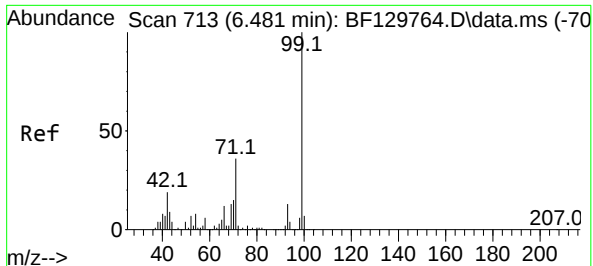
Tgt Ion:152 Resp: 101368  
Ion Ratio Lower Upper  
152 100  
150 156.6 126.9 190.3  
115 65.7 53.4 80.0



#5  
2-Fluorophenol  
Concen: 23.303 ng  
RT: 5.398 min Scan# 529  
Delta R.T. 0.006 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

Tgt Ion:112 Resp: 142670  
Ion Ratio Lower Upper  
112 100  
64 60.0 47.6 71.4  
63 31.6 24.6 37.0

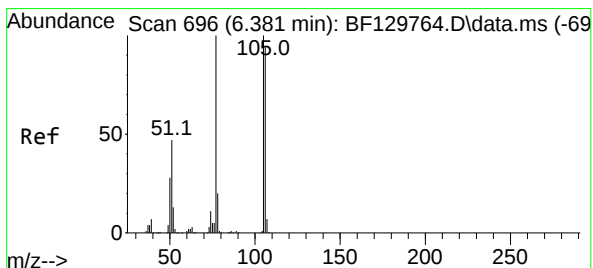
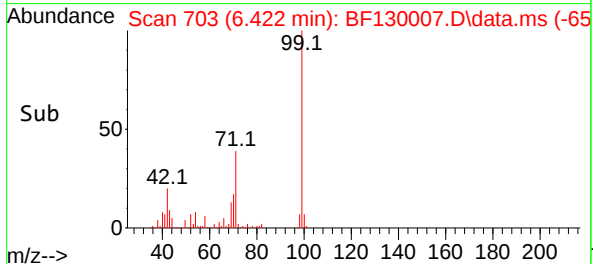
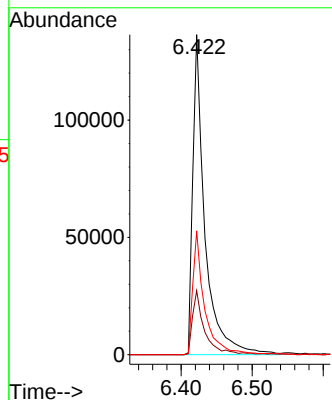
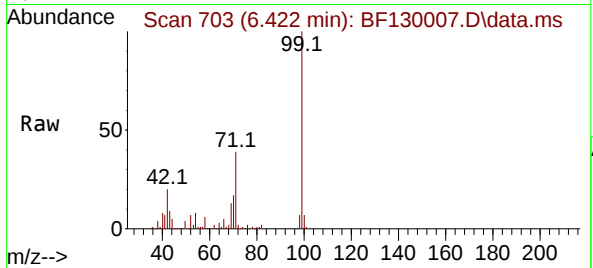




#7  
Phenol-d6  
Concen: 21.152 ng  
RT: 6.422 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

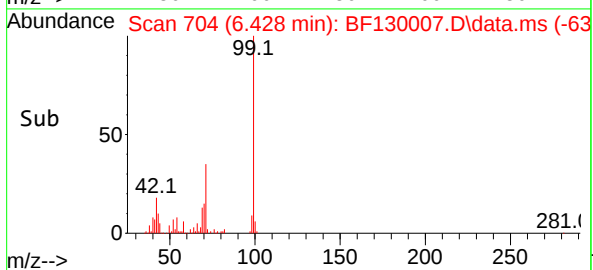
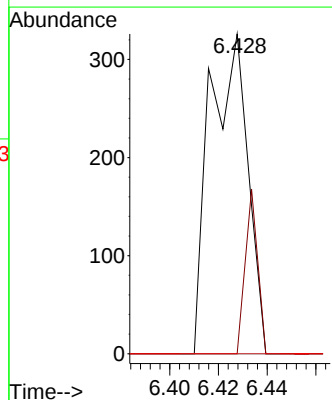
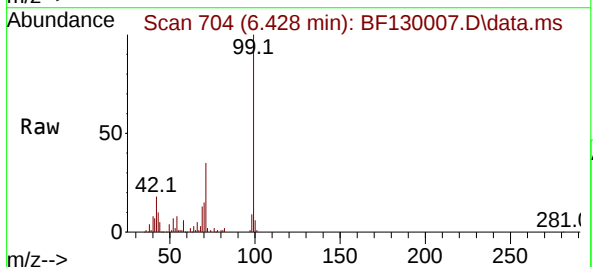
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-082322

Tgt Ion: 99 Resp: 162168  
Ion Ratio Lower Upper  
99 100  
42 20.0 15.0 22.4  
71 38.7 28.8 43.2



#9  
Benzaldehyde  
Concen: Below Cal  
RT: 6.428 min Scan# 704  
Delta R.T. 0.112 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

Tgt Ion: 77 Resp: 352  
Ion Ratio Lower Upper  
77 100  
105 0.0 80.3 120.3#  
106 0.0 74.3 114.3#

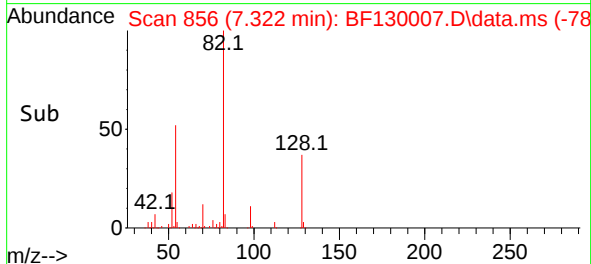
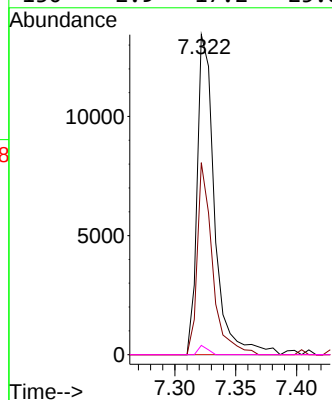
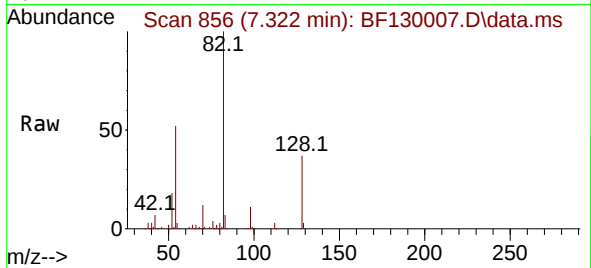




#19  
n-Nitroso-di-n-propylamine  
Concen: 2.766 ng  
RT: 7.322 min Scan# 842  
Delta R.T. 0.141 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

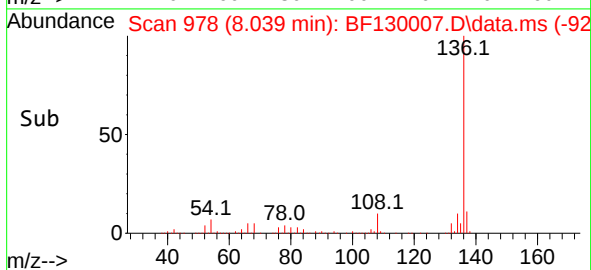
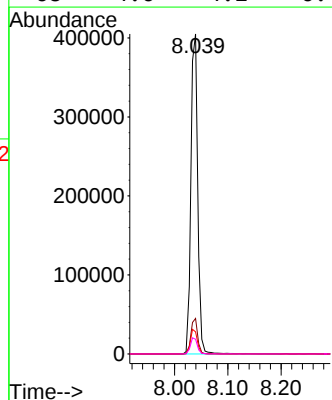
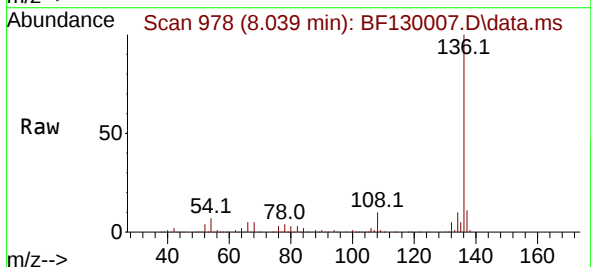
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-082322

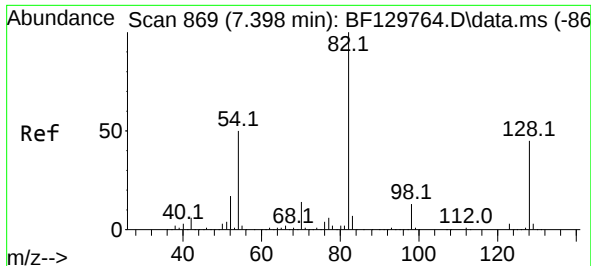
Tgt Ion: 70 Resp: 13406  
Ion Ratio Lower Upper  
70 100  
42 60.0 47.6 71.4  
101 0.0 8.1 12.1#  
130 2.9 17.2 25.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.039 min Scan# 978  
Delta R.T. -0.000 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

Tgt Ion:136 Resp: 361346  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.4 12.6  
54 6.9 6.2 9.2  
68 4.6 4.2 6.4





#23

Nitrobenzene-d5

Concen: 15.408 ng

RT: 7.322 min Scan# 856

Delta R.T. -0.012 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

Instrument :

BNA\_F

ClientSampleId :

SU-03-082322

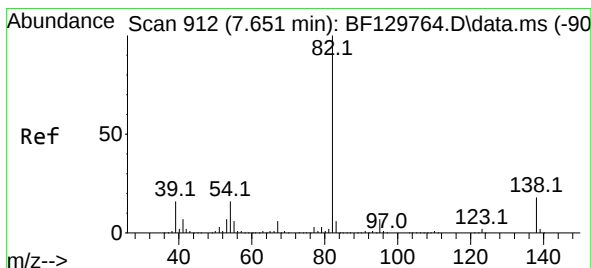
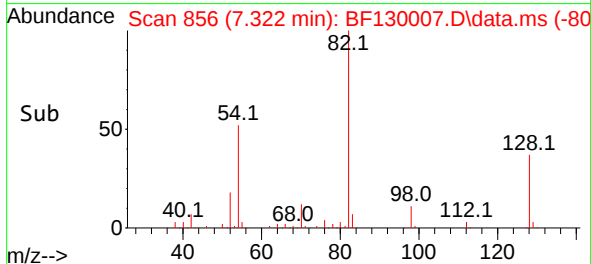
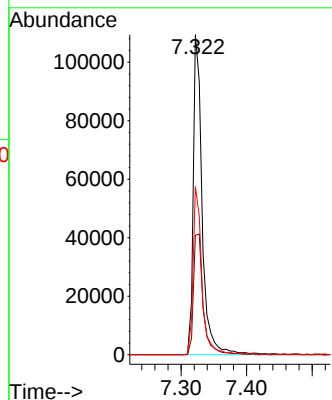
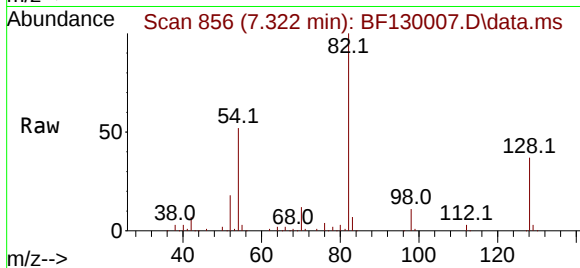
Tgt Ion: 82 Resp: 104007

Ion Ratio Lower Upper

82 100

128 37.3 36.1 54.1

54 52.5 40.0 60.0



#25

Isophorone

Concen: 8.952 ng

RT: 7.322 min Scan# 856

Delta R.T. -0.265 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

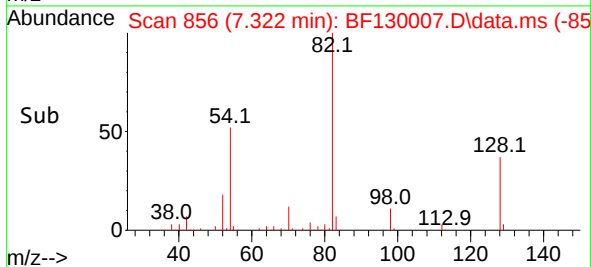
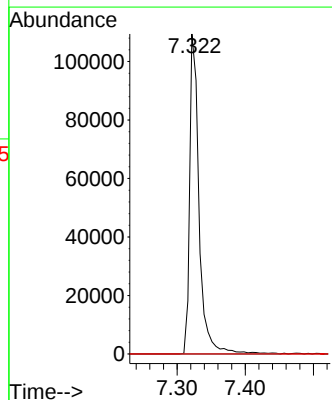
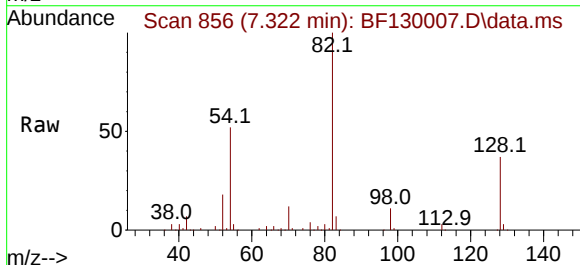
Tgt Ion: 82 Resp: 104006

Ion Ratio Lower Upper

82 100

95 0.0 5.9 8.9#

138 0.0 14.6 21.8#

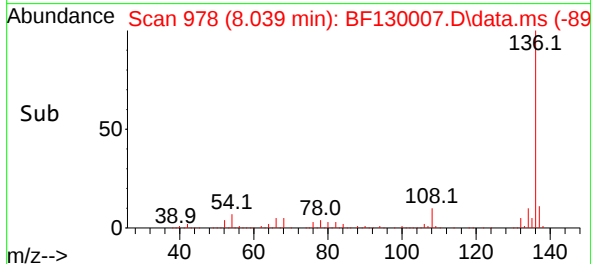
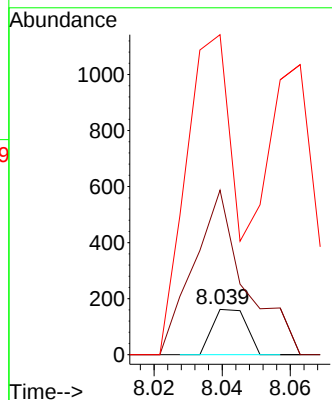
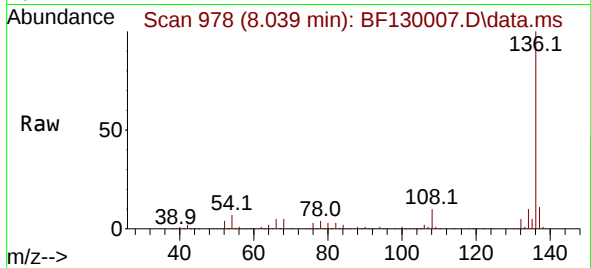




#32  
Benzoic acid  
Concen: 2.218 ng  
RT: 8.039 min Scan# 91  
Delta R.T. 0.176 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

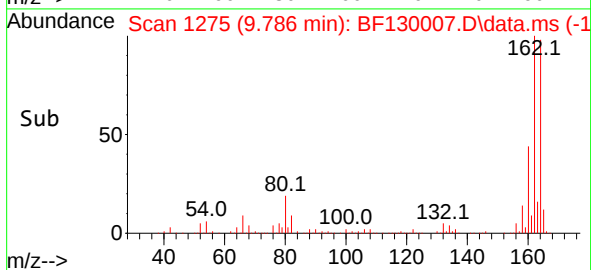
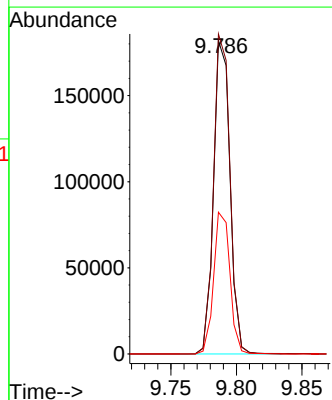
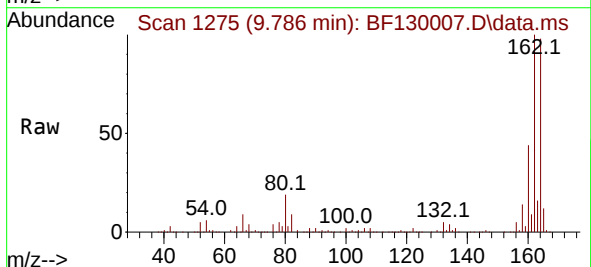
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-082322

Tgt Ion:122 Resp: 113  
Ion Ratio Lower Upper  
122 100  
105 362.3 99.9 139.9#  
77 704.9 65.9 105.9#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.786 min Scan# 1275  
Delta R.T. -0.006 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

Tgt Ion:164 Resp: 158406  
Ion Ratio Lower Upper  
164 100  
162 102.1 82.0 123.0  
160 45.2 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 19.295 ng

RT: 10.586 min Scan# 1424

Delta R.T. -0.000 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

Instrument :

BNA\_F

ClientSampleId :

SU-03-082322

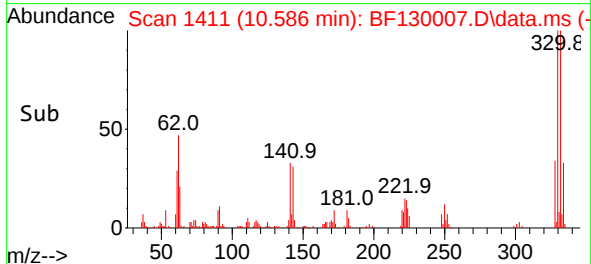
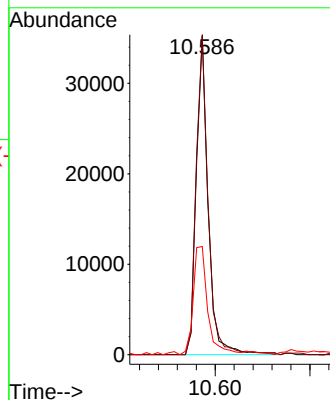
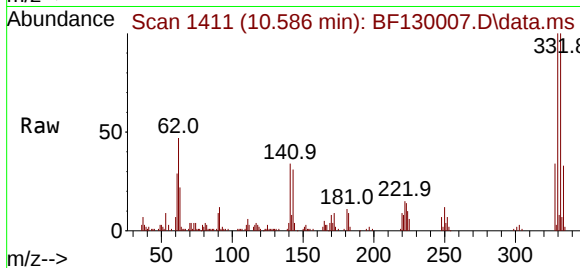
Tgt Ion:330 Resp: 30676

Ion Ratio Lower Upper

330 100

332 101.9 82.6 124.0

141 41.9 27.6 41.4#



#45

2-Fluorobiphenyl

Concen: 16.054 ng

RT: 9.110 min Scan# 1160

Delta R.T. -0.006 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

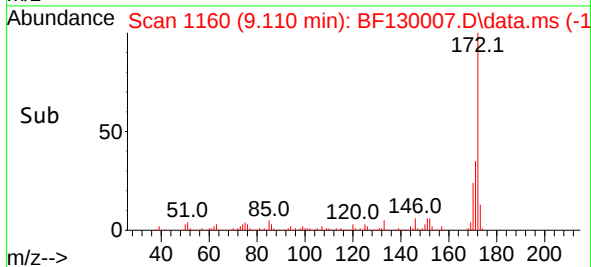
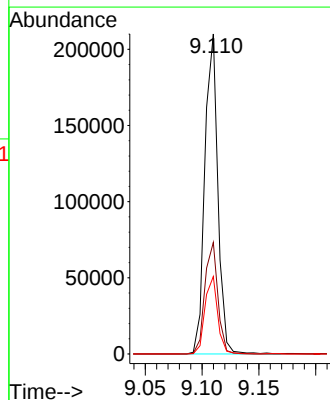
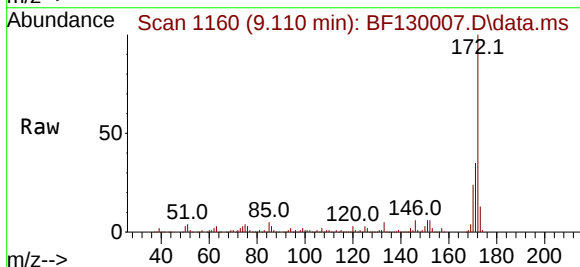
Tgt Ion:172 Resp: 167435

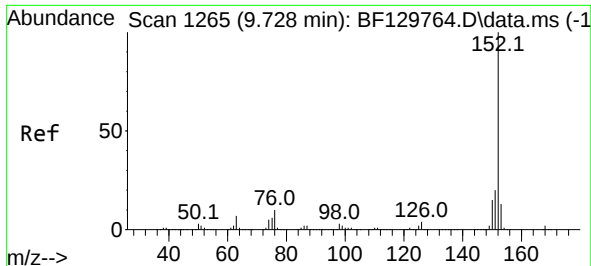
Ion Ratio Lower Upper

172 100

171 34.8 28.4 42.6

170 24.2 19.1 28.7





#49

Acenaphthylene

Concen: 2.464 ng

RT: 9.651 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

Instrument :

BNA\_F

ClientSampleId :

SU-03-082322

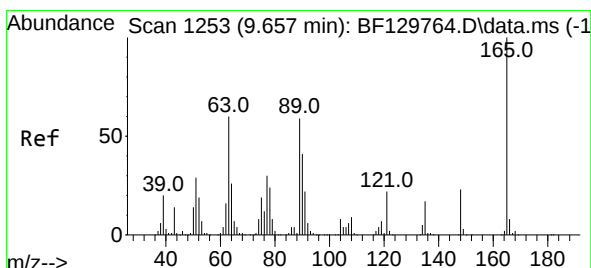
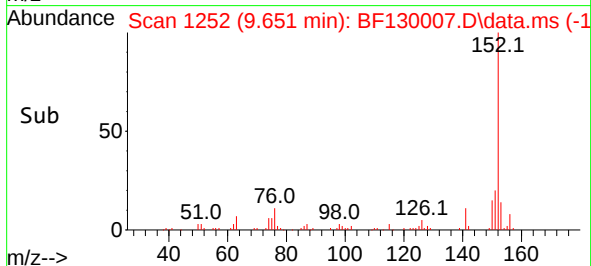
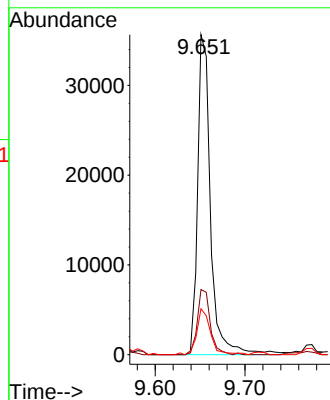
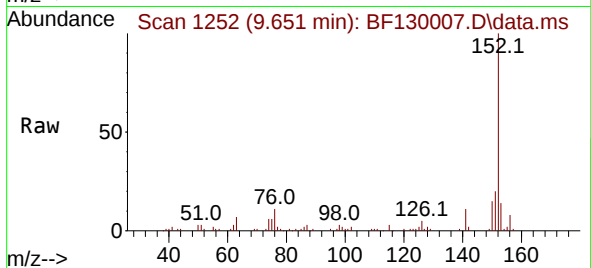
Tgt Ion:152 Resp: 35578

Ion Ratio Lower Upper

152 100

151 20.3 16.1 24.1

153 14.3 10.6 16.0



#51

2,6-Dinitrotoluene

Concen: 8.362 ng

RT: 9.786 min Scan# 1275

Delta R.T. 0.194 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

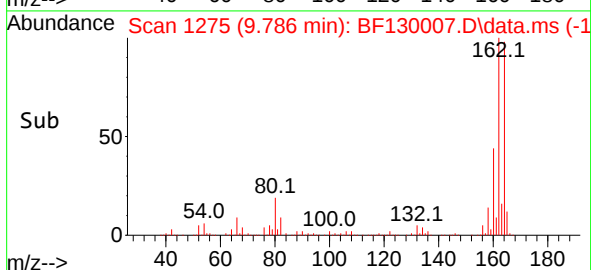
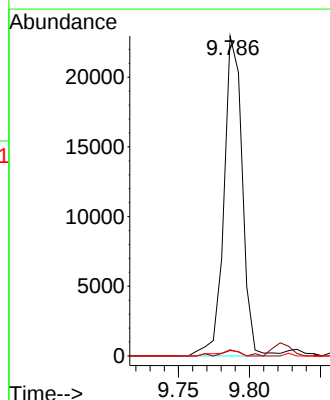
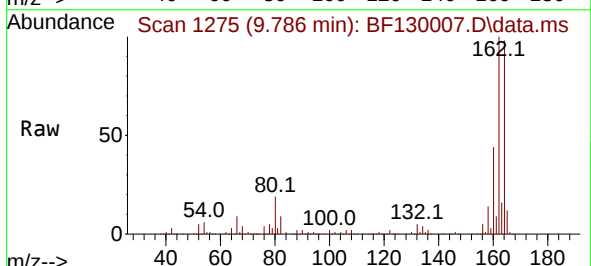
Tgt Ion:165 Resp: 20599

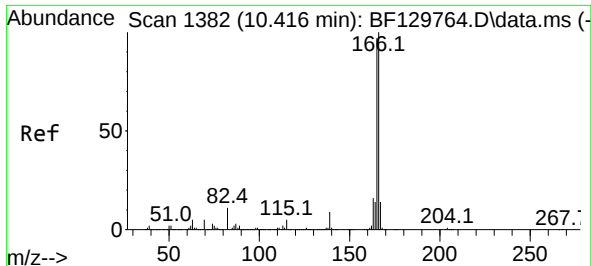
Ion Ratio Lower Upper

165 100

63 1.7 47.8 71.8#

89 2.0 47.2 70.8#

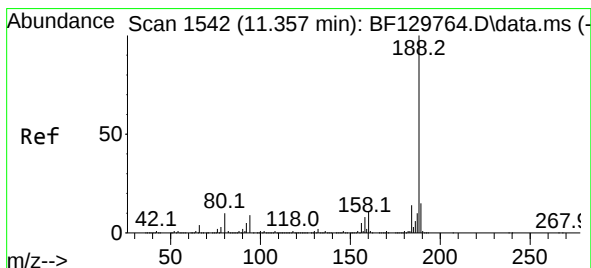
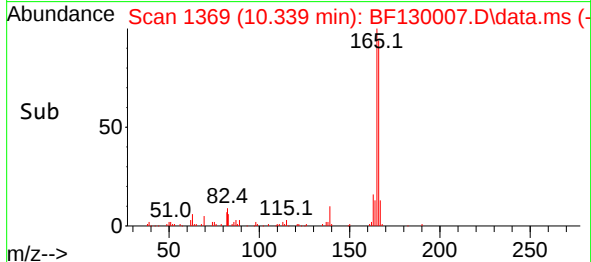
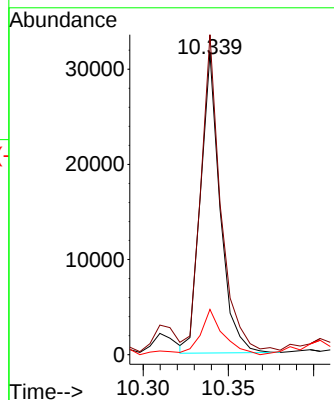
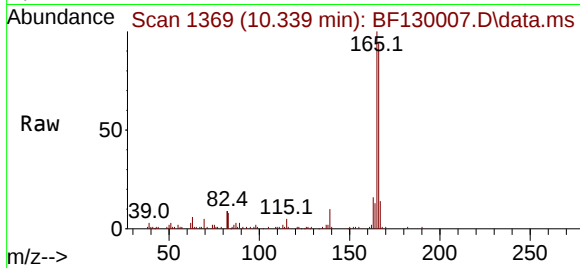




#58  
 Fluorene  
 Concen: 2.281 ng  
 RT: 10.339 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: BF130007.D  
 Acq: 25 Aug 2022 19:27

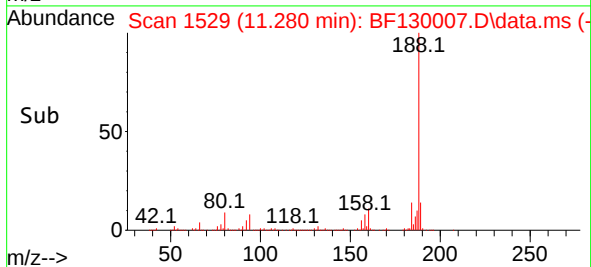
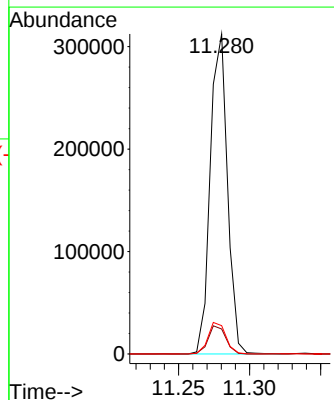
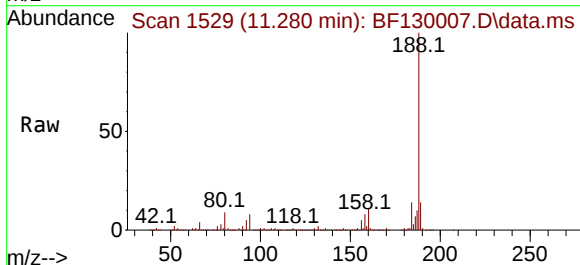
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-082322

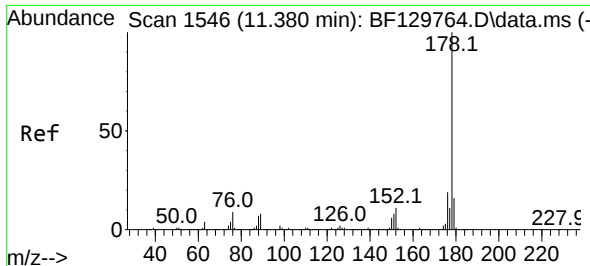
Tgt Ion:166 Resp: 25062  
 Ion Ratio Lower Upper  
 166 100  
 165 106.1 77.9 116.9  
 167 15.0 11.0 16.4



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.280 min Scan# 1529  
 Delta R.T. -0.000 min  
 Lab File: BF130007.D  
 Acq: 25 Aug 2022 19:27

Tgt Ion:188 Resp: 262659  
 Ion Ratio Lower Upper  
 188 100  
 94 7.8 7.4 11.2  
 80 8.8 7.9 11.9

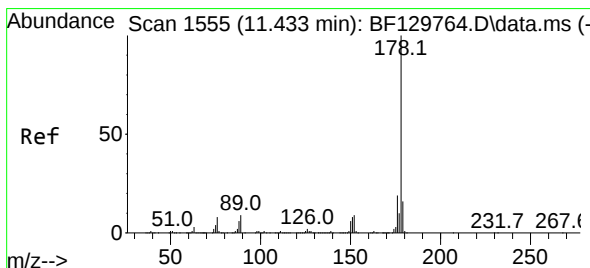
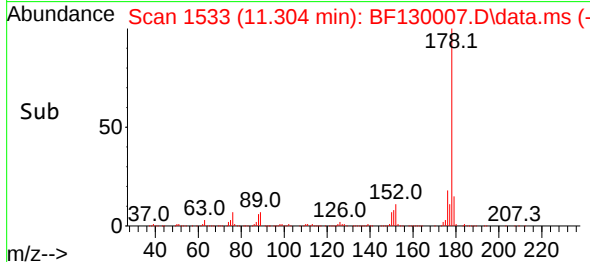
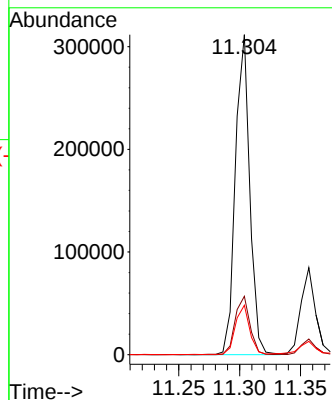
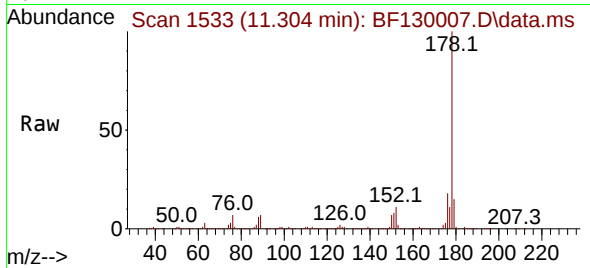




#71  
Phenanthrene  
Concen: 17.406 ng  
RT: 11.304 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

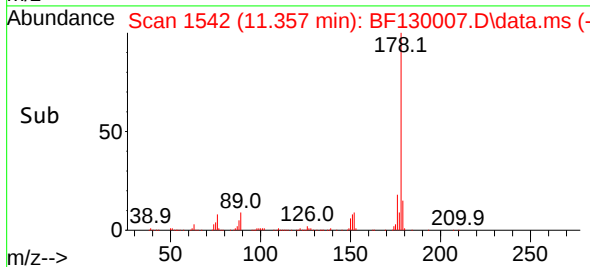
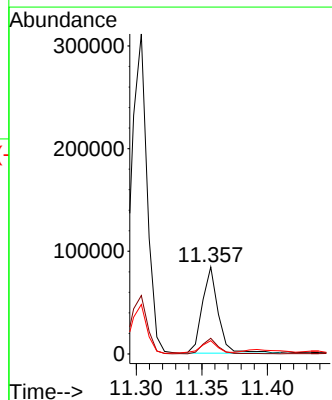
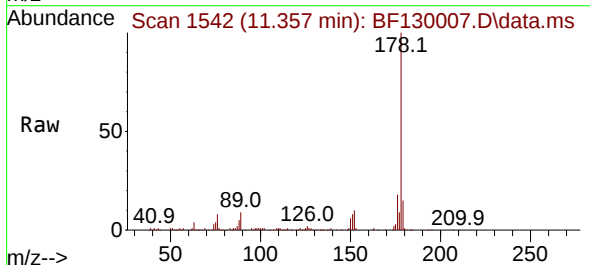
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-082322

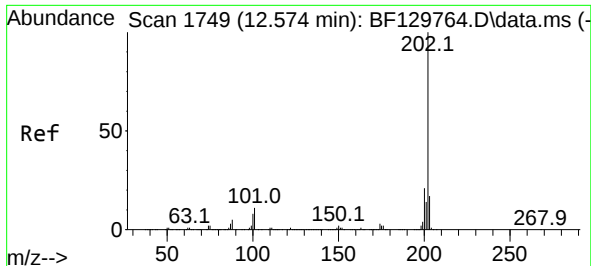
Tgt Ion:178 Resp: 255337  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.5 23.3  
179 15.5 12.5 18.7



#72  
Anthracene  
Concen: 4.870 ng  
RT: 11.357 min Scan# 1542  
Delta R.T. -0.000 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

Tgt Ion:178 Resp: 71050  
Ion Ratio Lower Upper  
178 100  
176 18.0 15.1 22.7  
179 15.3 12.6 18.8

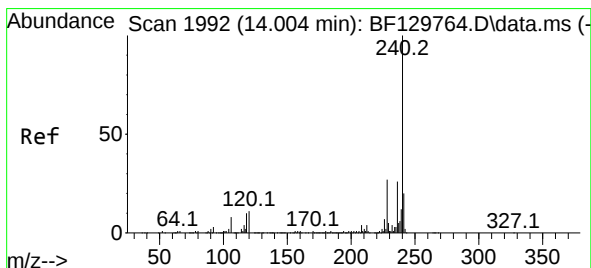
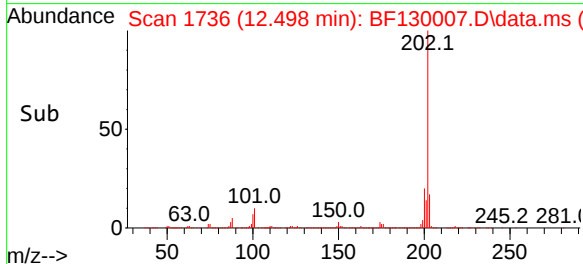
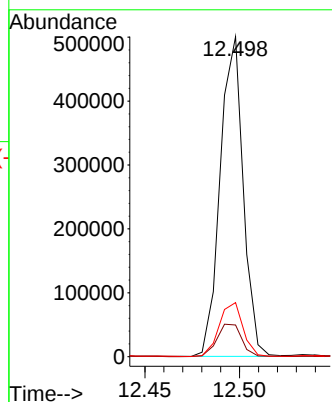
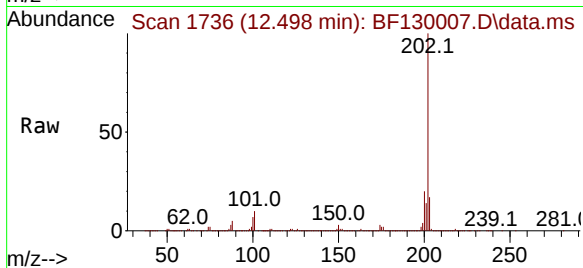




#75  
Fluoranthene  
Concen: 28.160 ng  
RT: 12.498 min Scan# 1736  
Delta R.T. -0.000 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

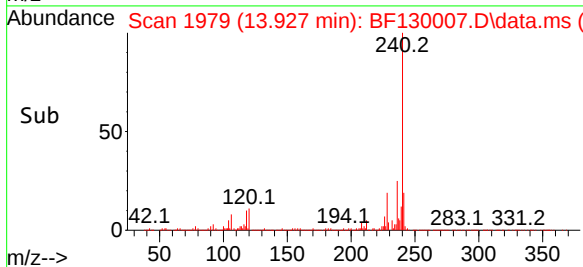
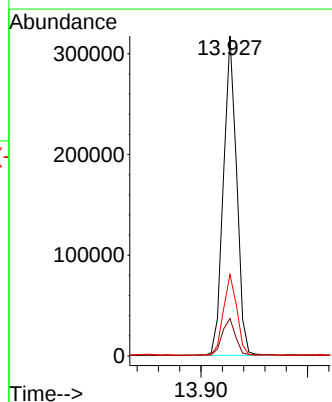
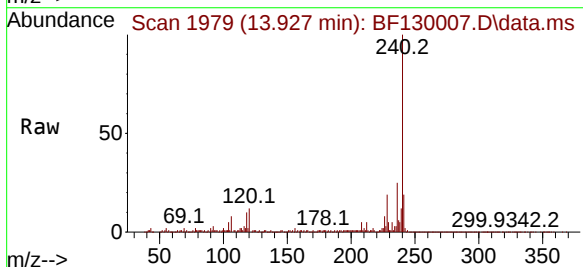
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-082322

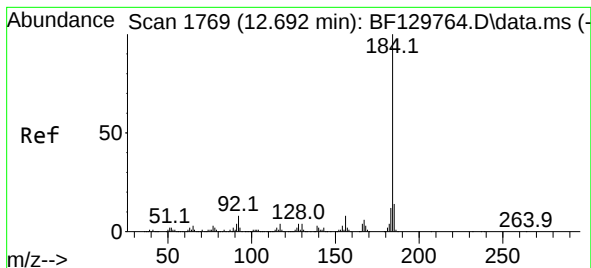
Tgt Ion:202 Resp: 422711  
Ion Ratio Lower Upper  
202 100  
101 9.9 0.0 30.7  
203 16.9 0.0 37.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.927 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

Tgt Ion:240 Resp: 272057  
Ion Ratio Lower Upper  
240 100  
120 11.7 9.2 13.8  
236 25.5 20.7 31.1





#77

Benzidine

Concen: Below Cal

RT: 12.621 min Scan# 1757

Delta R.T. -0.000 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

Instrument :

BNA\_F

ClientSampleId :

SU-03-082322

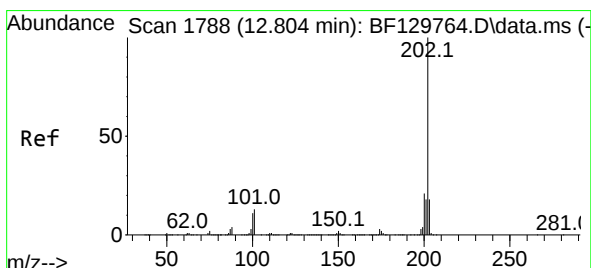
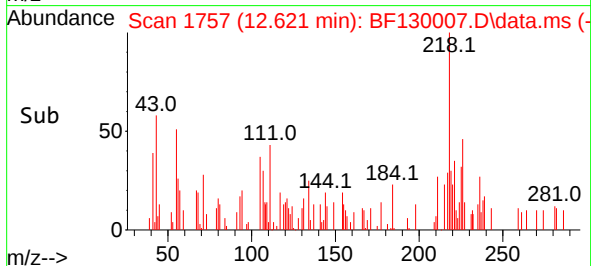
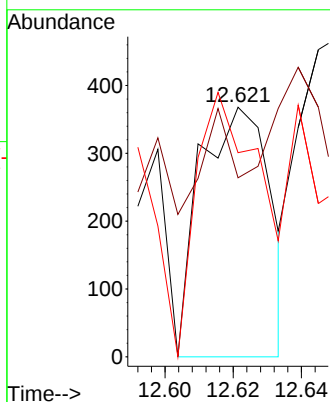
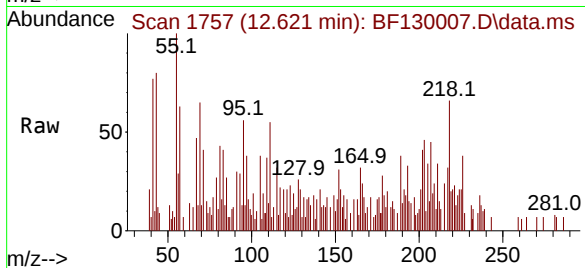
Tgt Ion:184 Resp: 528

Ion Ratio Lower Upper

184 100

185 71.7 11.4 17.2#

183 81.8 9.4 14.2#



#78

Pyrene

Concen: 17.510 ng

RT: 12.727 min Scan# 1775

Delta R.T. -0.000 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

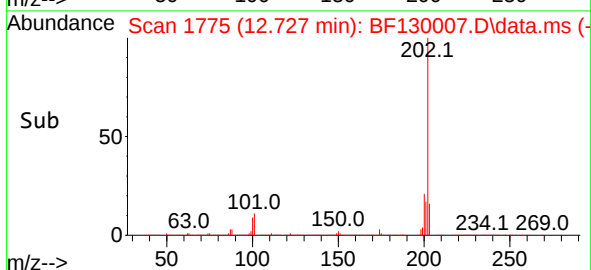
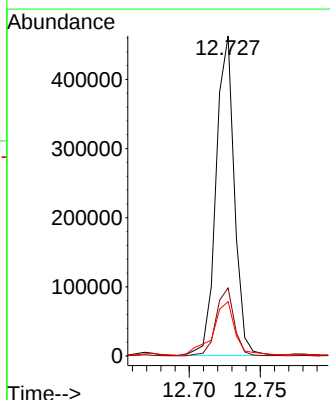
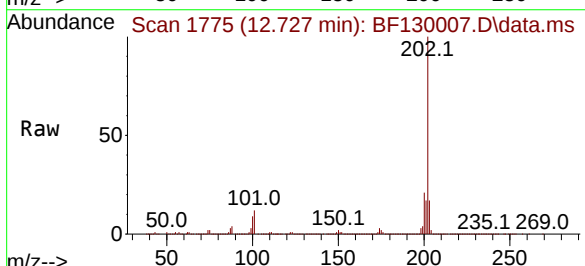
Tgt Ion:202 Resp: 413954

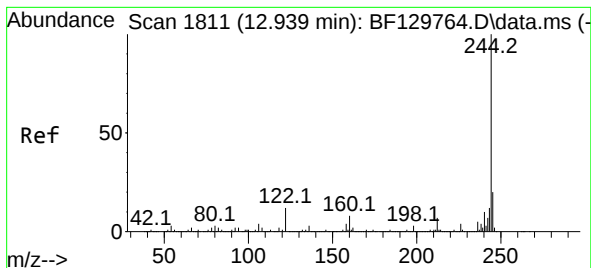
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.0 14.1 21.1





#79

Terphenyl-d14

Concen: 11.648 ng

RT: 12.857 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

Instrument :

BNA\_F

ClientSampleId :

SU-03-082322

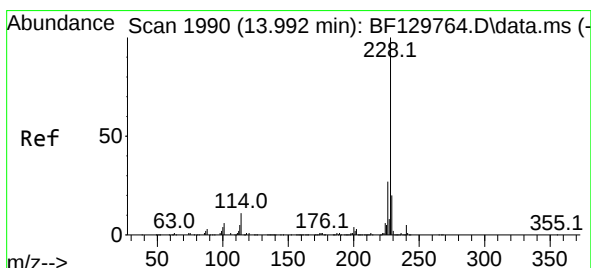
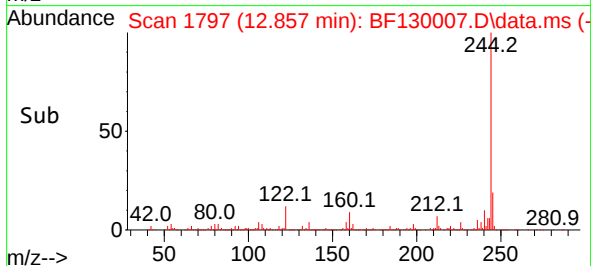
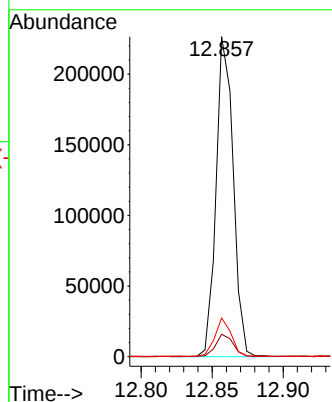
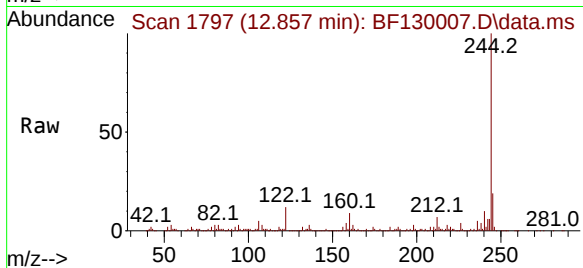
Tgt Ion:244 Resp: 190444

Ion Ratio Lower Upper

244 100

212 7.0 5.9 8.9

122 12.1 9.9 14.9



#81

Benzo(a)anthracene

Concen: 13.061 ng

RT: 13.915 min Scan# 1977

Delta R.T. -0.000 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

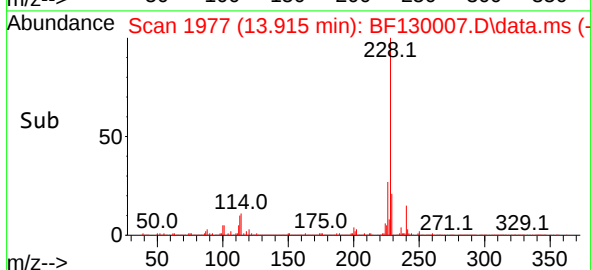
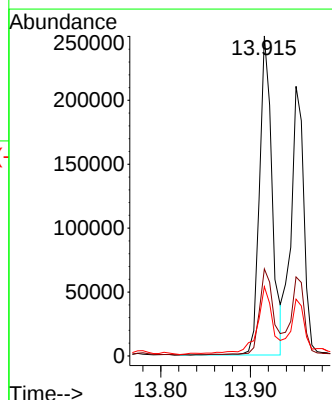
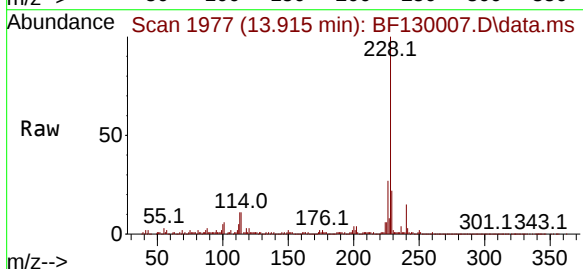
Tgt Ion:228 Resp: 244440

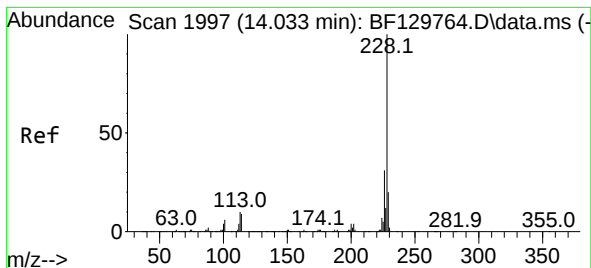
Ion Ratio Lower Upper

228 100

226 27.2 21.4 32.0

229 21.6 16.1 24.1





#83

Chrysene

Concen: 11.935 ng

RT: 13.951 min Scan# 1997

Delta R.T. -0.000 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

Instrument :

BNA\_F

ClientSampleId :

SU-03-082322

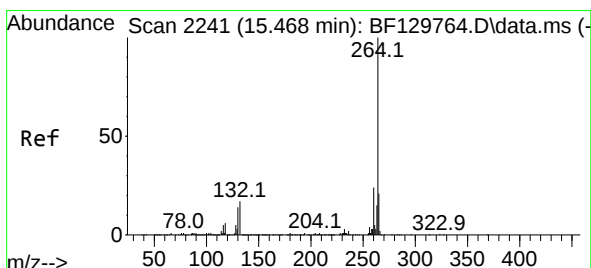
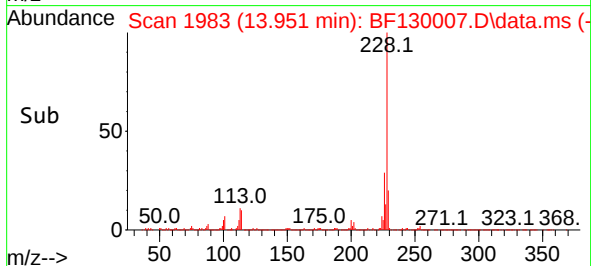
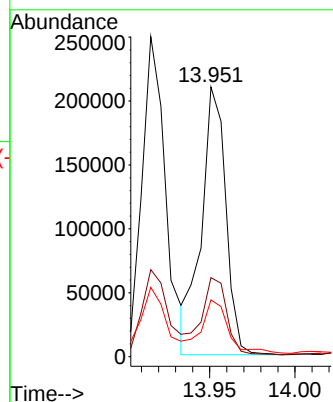
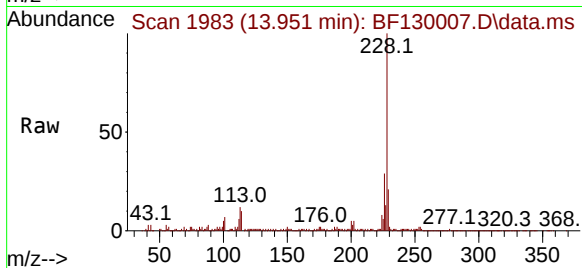
Tgt Ion:228 Resp: 209093

Ion Ratio Lower Upper

228 100

226 29.3 24.4 36.6

229 21.1 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.374 min Scan# 2225

Delta R.T. 0.006 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

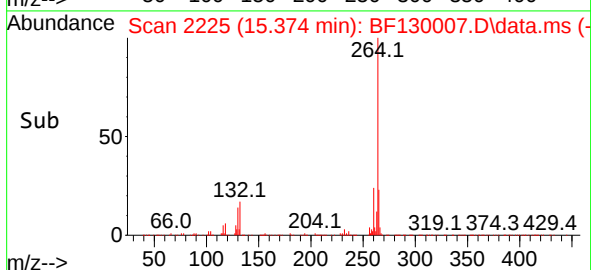
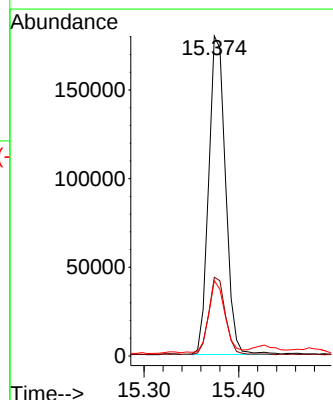
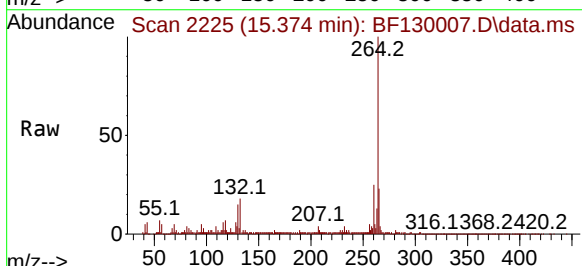
Tgt Ion:264 Resp: 221398

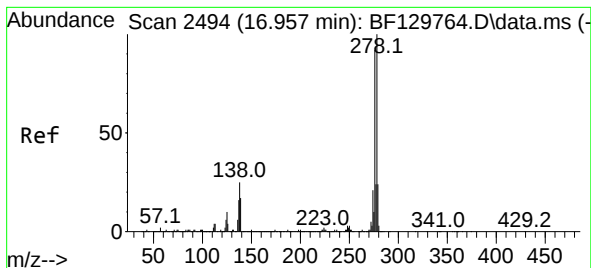
Ion Ratio Lower Upper

264 100

260 24.6 19.1 28.7

265 23.5 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.436 ng

RT: 16.827 min Scan# 2494

Delta R.T. 0.012 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

Instrument :

BNA\_F

ClientSampleId :

SU-03-082322

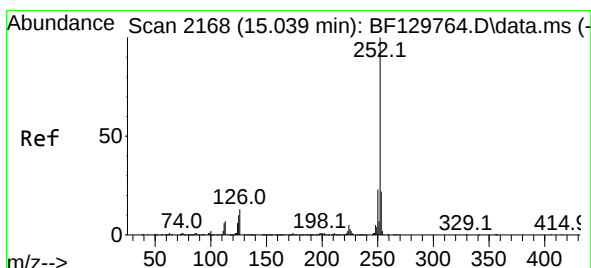
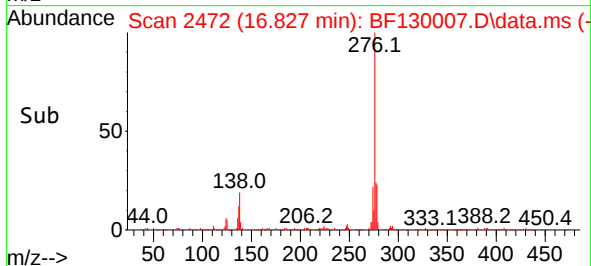
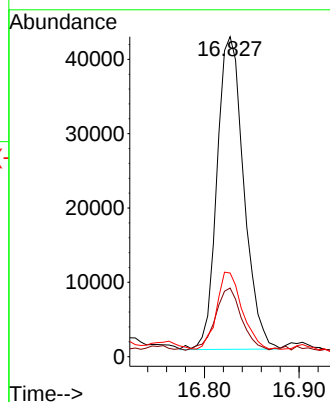
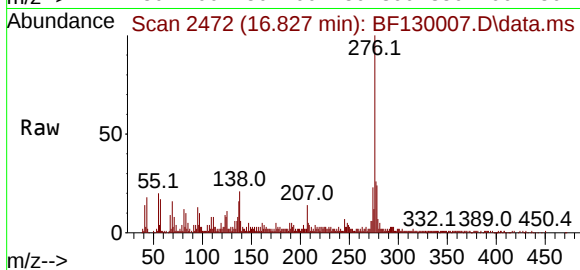
Tgt Ion:276 Resp: 82622

Ion Ratio Lower Upper

276 100

138 19.6 19.8 29.8#

277 23.7 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 20.277 ng

RT: 14.962 min Scan# 2155

Delta R.T. 0.012 min

Lab File: BF130007.D

Acq: 25 Aug 2022 19:27

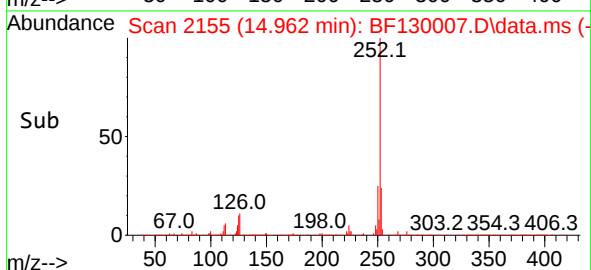
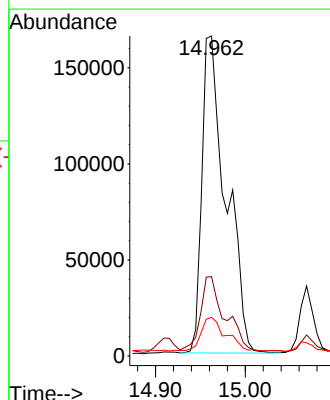
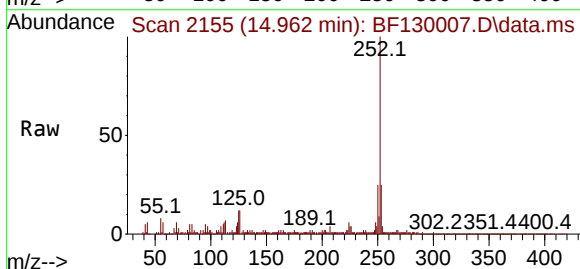
Tgt Ion:252 Resp: 307404

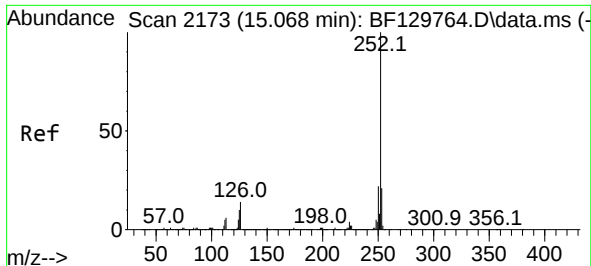
Ion Ratio Lower Upper

252 100

253 24.8 17.5 26.3

125 12.0 8.3 12.5

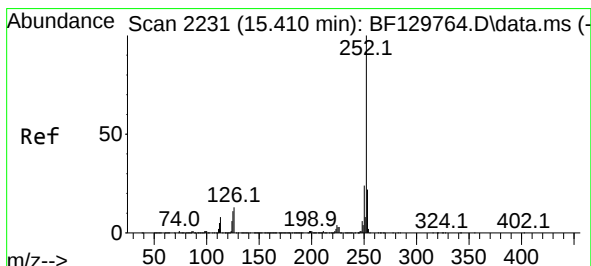
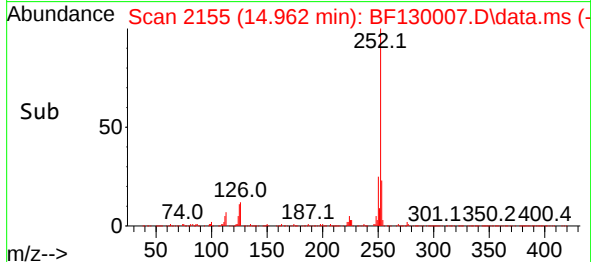
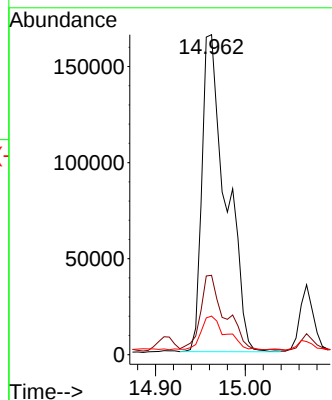
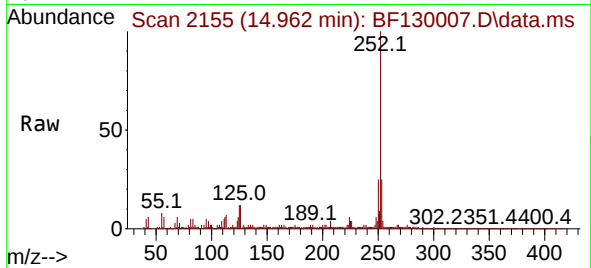




#89  
Benzo(k)fluoranthene  
Concen: 21.144 ng  
RT: 14.962 min Scan# 2173  
Delta R.T. -0.018 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

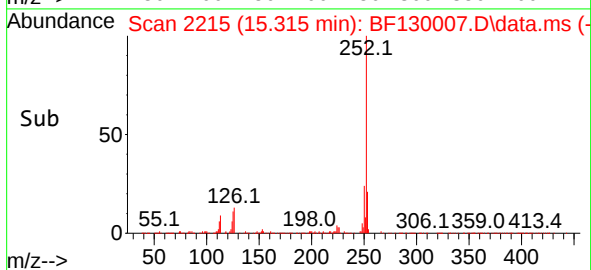
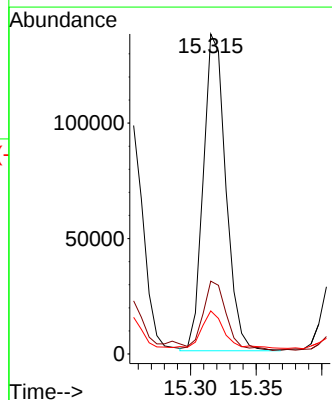
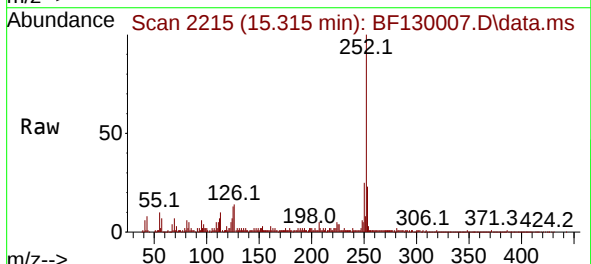
Instrument :  
BNA\_F  
ClientSampleId :  
SU-03-082322

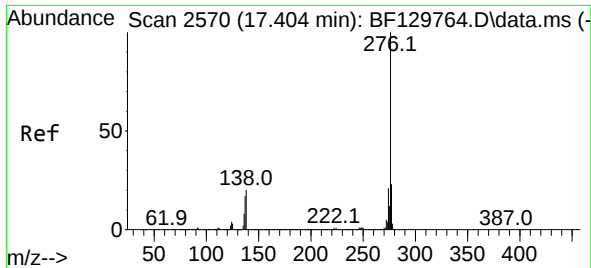
Tgt Ion:252 Resp: 307404  
Ion Ratio Lower Upper  
252 100  
253 24.8 17.1 25.7  
125 12.0 8.3 12.5



#90  
Benzo(a)pyrene  
Concen: 13.790 ng  
RT: 15.315 min Scan# 2215  
Delta R.T. 0.006 min  
Lab File: BF130007.D  
Acq: 25 Aug 2022 19:27

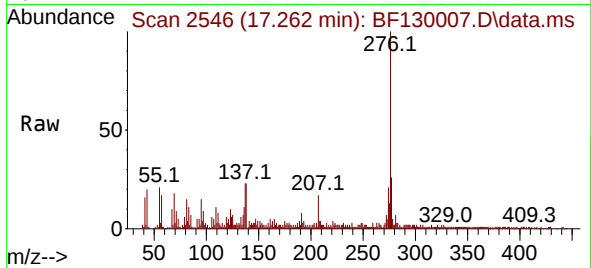
Tgt Ion:252 Resp: 164632  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.2 25.8  
125 13.4 8.8 13.2#





#92  
 Benzo(g,h,i)perylene  
 Concen: 6.110 ng  
 RT: 17.262 min Scan# 21  
 Delta R.T. 0.018 min  
 Lab File: BF130007.D  
 Acq: 25 Aug 2022 19:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-03-082322



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 76442 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.7  | 18.2  | 27.4  |
| 138      | 22.8  | 15.8  | 23.8  |

