

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091223\  
 Data File : BF135215.D  
 Acq On : 13 Sep 2023 09:46  
 Operator : CG\JU  
 Sample : 04299-02  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 13 12:09:59 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 00:19:07 2023  
 Response via : Initial Calibration

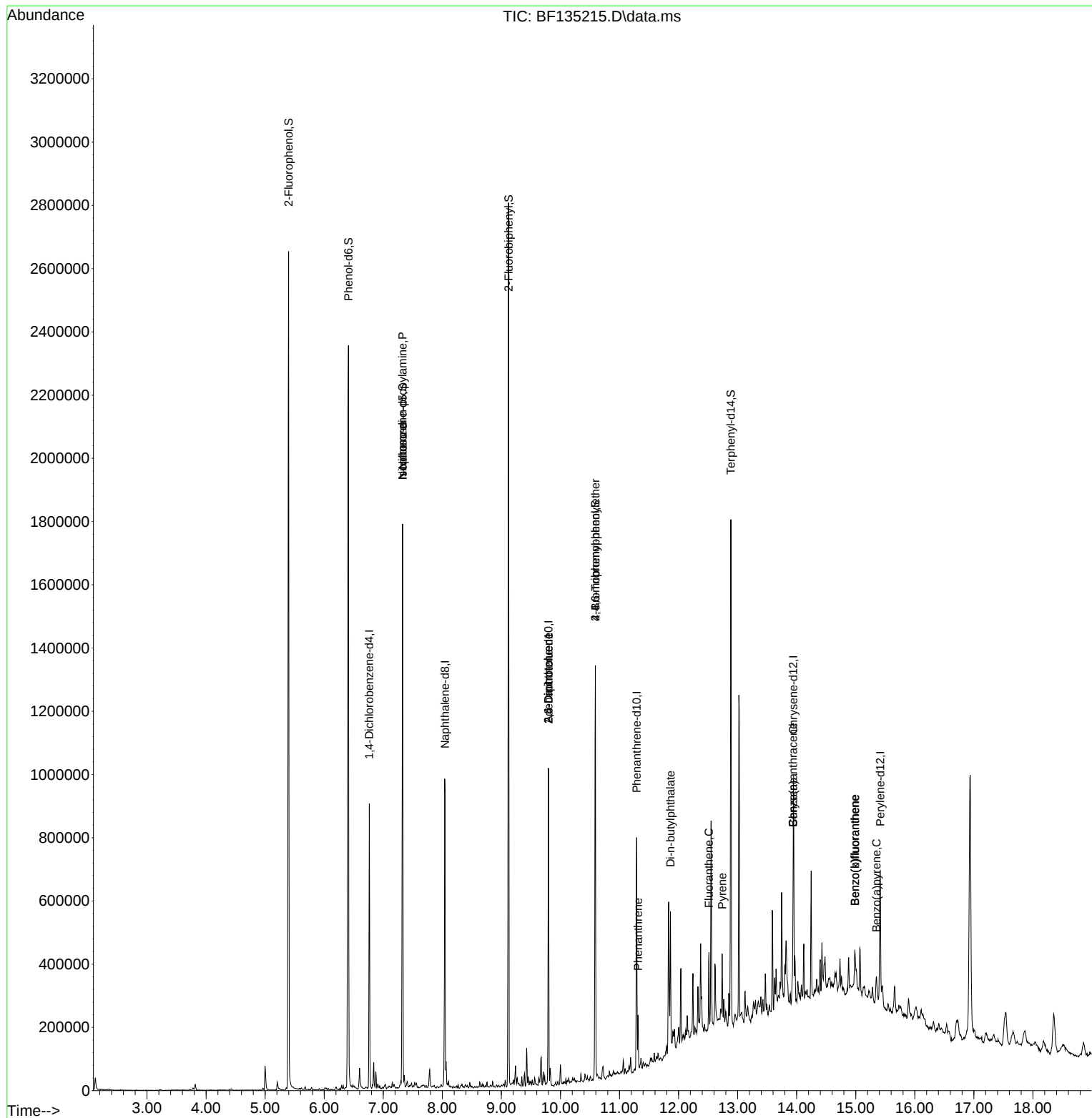
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.763  | 152  | 120291   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.045  | 136  | 431435   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.798  | 164  | 183575   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.292 | 188  | 271904   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 13.945 | 240  | 222141   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.415 | 264  | 208429   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.398  | 112  | 702656   | 95.006 | ng    | 0.01     |
| 7) Phenol-d6                  | 6.410  | 99   | 875869   | 93.134 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.328  | 82   | 532171   | 67.015 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.592 | 330  | 150383   | 82.434 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.122  | 172  | 788825   | 64.830 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.886 | 244  | 541400   | 37.781 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.328  | 70   | 71058    | 12.199 | ng    | # 79     |
| 25) Isophorone                | 7.328  | 82   | 528206   | 36.223 | ng    | # 65     |
| 51) 2,6-Dinitrotoluene        | 9.798  | 165  | 23827    | 8.763  | ng    | # 17     |
| 57) 2,4-Dinitrotoluene        | 9.798  | 165  | 23827    | 7.000  | ng    | # 19     |
| 67) 4-Bromophenyl-phenylether | 10.592 | 248  | 9323     | 3.447  | ng    | # 1      |
| 71) Phenanthrene              | 11.316 | 178  | 64002    | 4.977  | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.863 | 149  | 179881   | 12.686 | ng    | 100      |
| 75) Fluoranthene              | 12.516 | 202  | 94742    | 7.070  | ng    | 97       |
| 78) Pyrene                    | 12.739 | 202  | 90348    | 4.272  | ng    | 99       |
| 81) Benzo(a)anthracene        | 13.939 | 228  | 46424    | 3.236  | ng    | 97       |
| 83) Chrysene                  | 13.939 | 228  | 46424    | 3.255  | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 14.986 | 252  | 71792    | 6.363  | ng    | # 88     |
| 89) Benzo(k)fluoranthene      | 14.986 | 252  | 71792    | 6.441  | ng    | # 88     |
| 90) Benzo(a)pyrene            | 15.351 | 252  | 31416    | 2.920  | ng    | # 87     |
| -----                         |        |      |          |        |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091223\  
Data File : BF135215.D  
Acq On : 13 Sep 2023 09:46  
Operator : CG\JU  
Sample : 04299-02  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

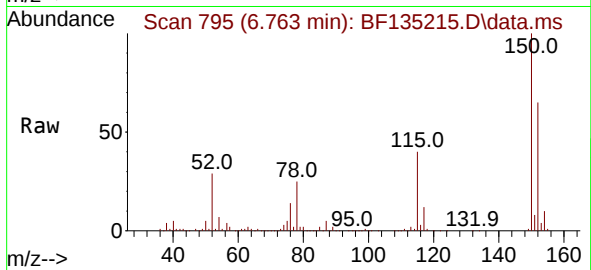
Quant Time: Sep 13 12:09:59 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 12 00:19:07 2023  
Response via : Initial Calibration



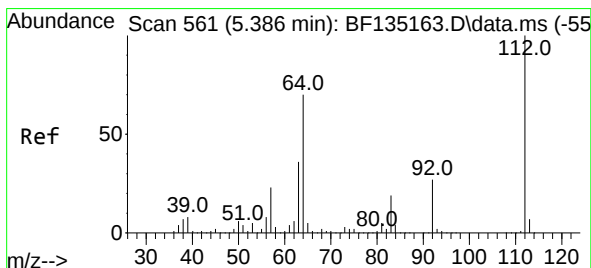
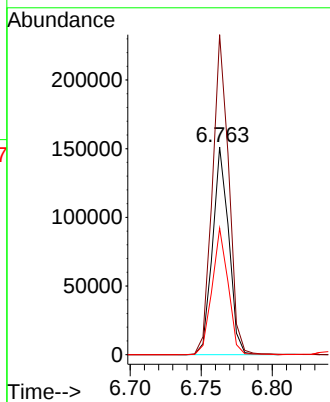
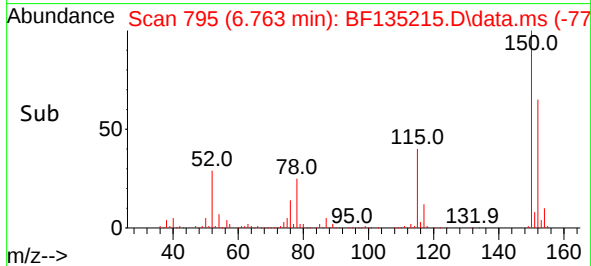


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.763 min Scan# 795  
Delta R.T. -0.000 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

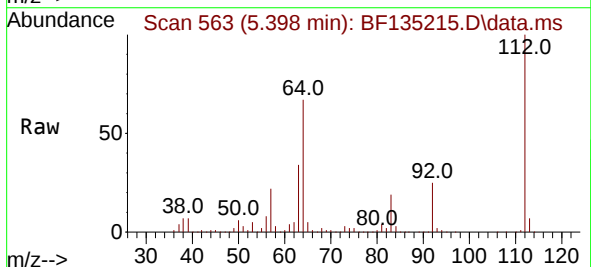
Instrument :  
BNA\_F  
ClientSampleId :



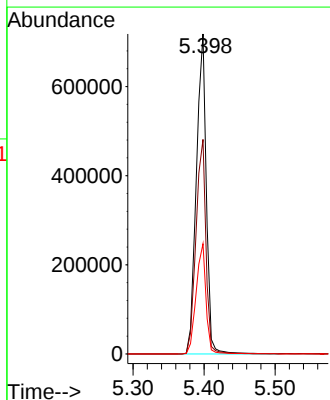
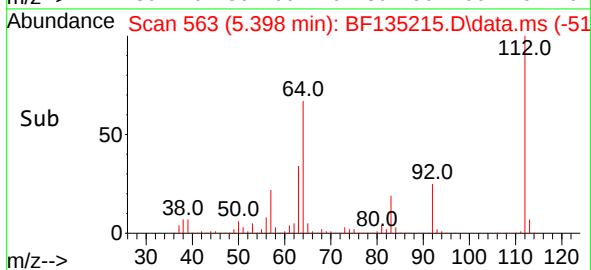
Tgt Ion:152 Resp: 120291  
Ion Ratio Lower Upper  
152 100  
150 154.1 127.8 191.6  
115 60.9 49.8 74.8



#5  
2-Fluorophenol  
Concen: 95.006 ng  
RT: 5.398 min Scan# 563  
Delta R.T. 0.012 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46



Tgt Ion:112 Resp: 702656  
Ion Ratio Lower Upper  
112 100  
64 67.0 55.9 83.9  
63 34.5 29.0 43.6

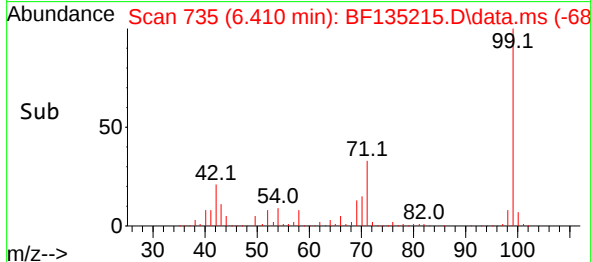
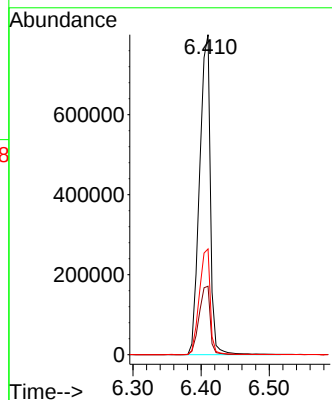
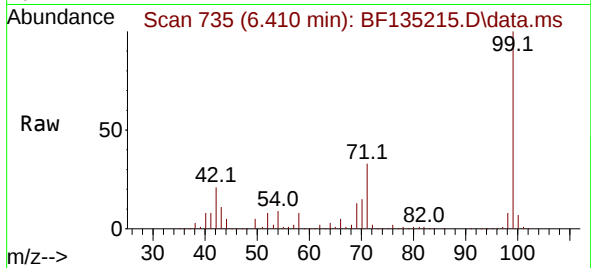




#7  
Phenol-d6  
Concen: 93.134 ng  
RT: 6.410 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

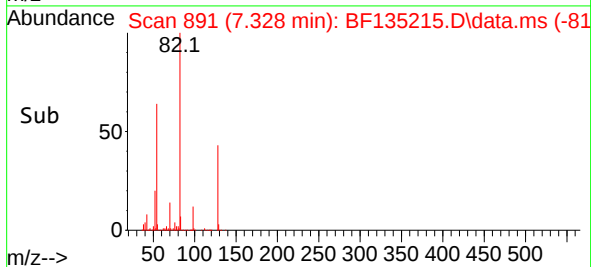
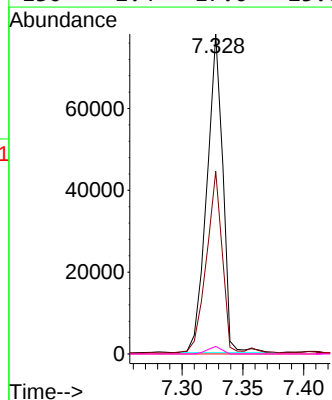
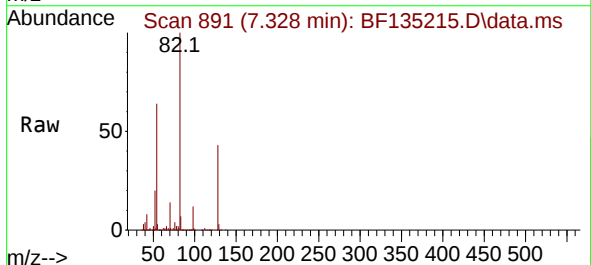
Instrument :  
BNA\_F  
ClientSampleId :

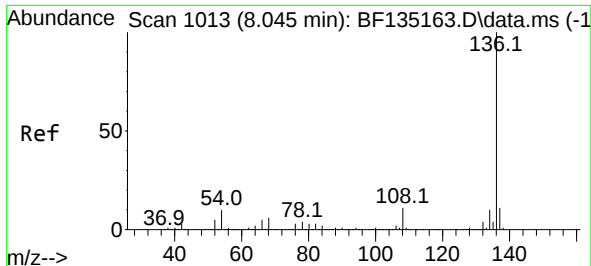
Tgt Ion: 99 Resp: 875869  
Ion Ratio Lower Upper  
99 100  
42 21.4 17.9 26.9  
71 33.0 27.0 40.6



#19  
n-Nitroso-di-n-propylamine  
Concen: 12.199 ng  
RT: 7.328 min Scan# 891  
Delta R.T. 0.141 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

Tgt Ion: 70 Resp: 71058  
Ion Ratio Lower Upper  
70 100  
42 57.1 55.4 83.0  
101 0.0 7.7 11.5#  
130 2.4 17.0 25.6#

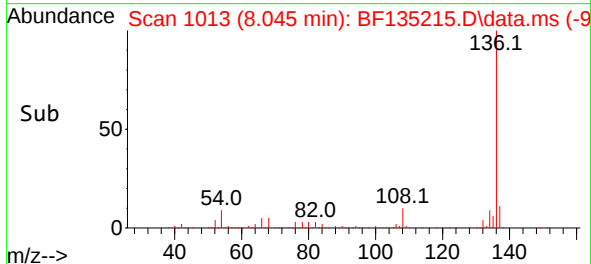
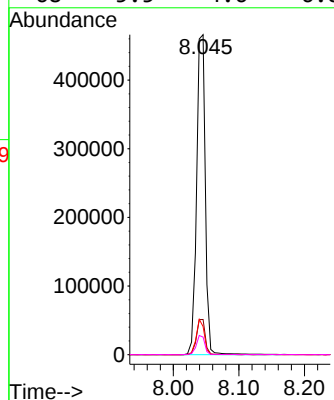
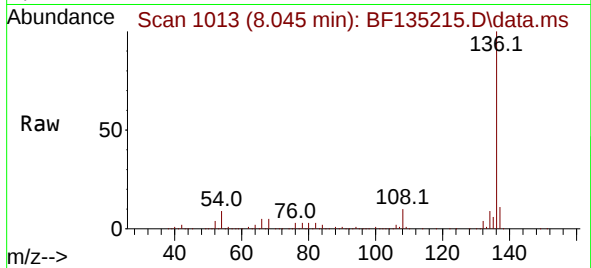




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.045 min Scan# 1013  
Delta R.T. 0.000 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

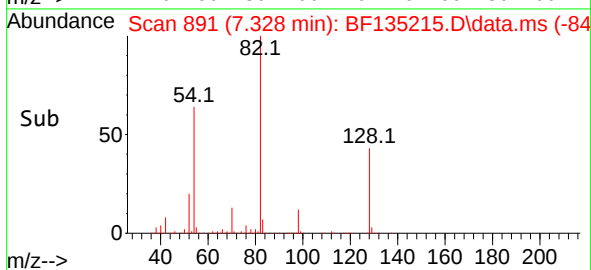
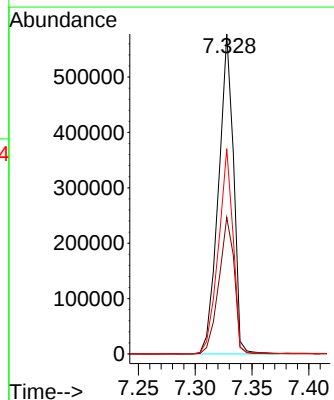
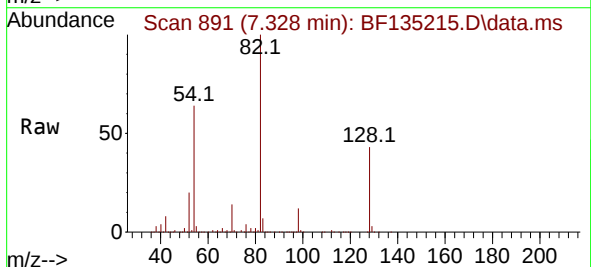
Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion:136 Resp: 431435  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.8 13.2  
54 8.8 7.7 11.5  
68 5.5 4.6 6.8



#23  
Nitrobenzene-d5  
Concen: 67.015 ng  
RT: 7.328 min Scan# 891  
Delta R.T. -0.006 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

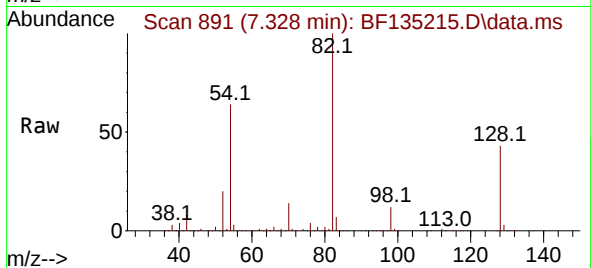
Tgt Ion: 82 Resp: 532171  
Ion Ratio Lower Upper  
82 100  
128 42.7 35.8 53.6  
54 64.2 50.6 76.0



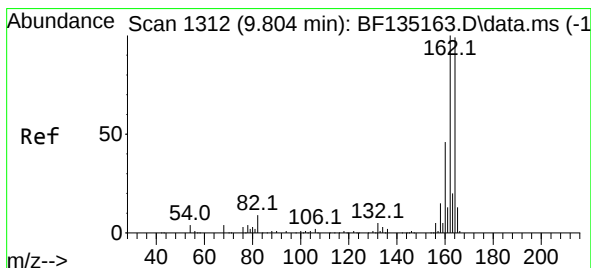
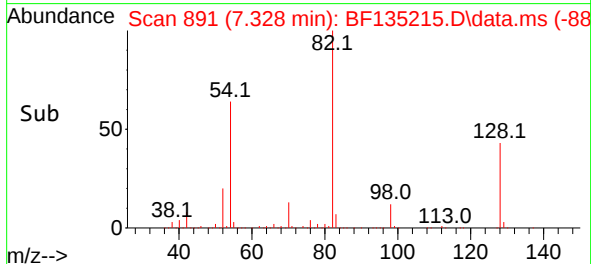
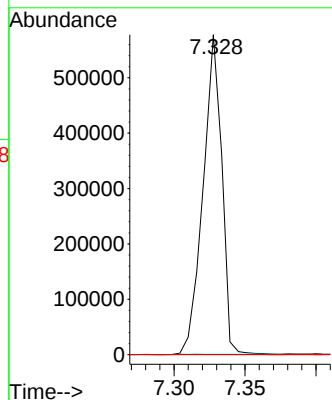


#25  
Isophorone  
Concen: 36.223 ng  
RT: 7.328 min Scan# 891  
Delta R.T. -0.265 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

Instrument :  
BNA\_F  
ClientSampleId :

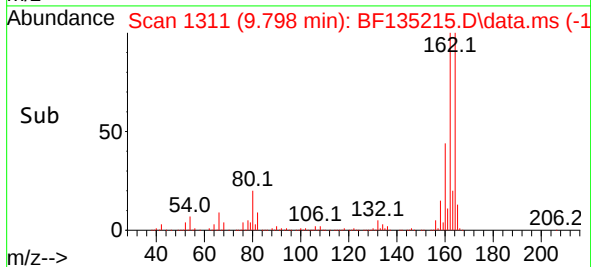
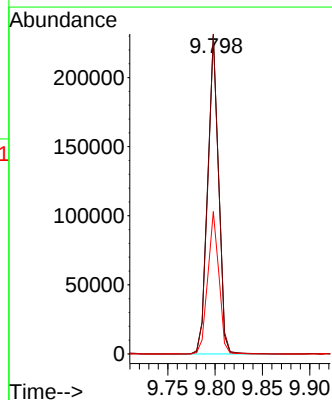
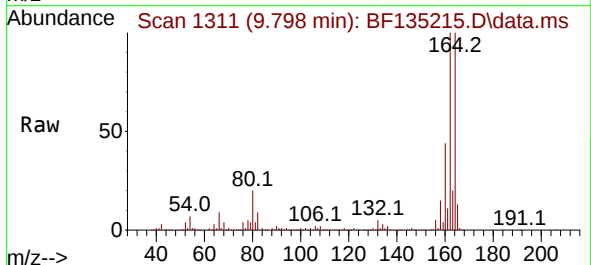


Tgt Ion: 82 Resp: 528206  
Ion Ratio Lower Upper  
82 100  
95 0.1 6.0 9.0#  
138 0.0 14.5 21.7#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.798 min Scan# 1311  
Delta R.T. -0.006 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

Tgt Ion: 164 Resp: 183575  
Ion Ratio Lower Upper  
164 100  
162 100.5 81.0 121.4  
160 44.7 37.0 55.4





#42

2,4,6-Tribromophenol

Concen: 82.434 ng

RT: 10.592 min Scan# 1446

Delta R.T. -0.006 min

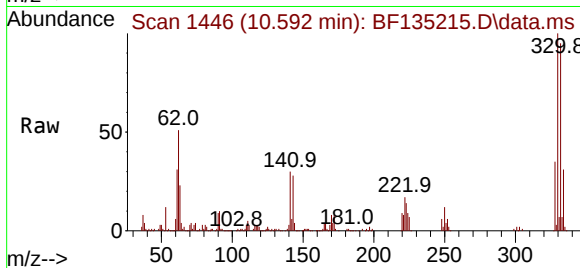
Lab File: BF135215.D

Acq: 13 Sep 2023 09:46

Instrument :

BNA\_F

ClientSampleId :



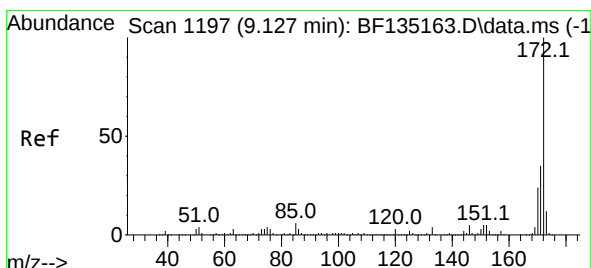
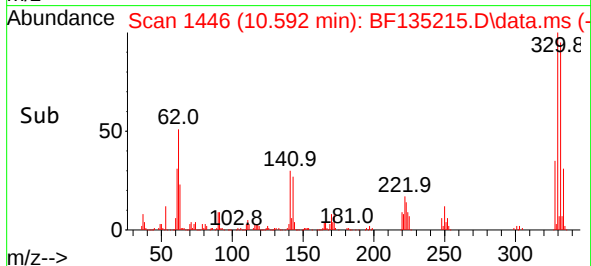
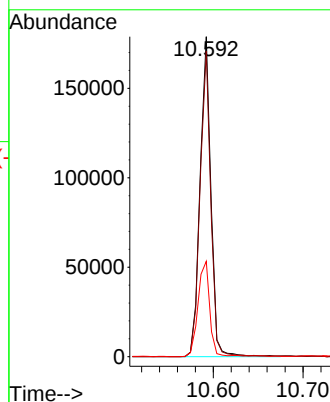
Tgt Ion:330 Resp: 150383

Ion Ratio Lower Upper

330 100

332 94.6 77.3 115.9

141 32.9 25.8 38.8



#45

2-Fluorobiphenyl

Concen: 64.830 ng

RT: 9.122 min Scan# 1196

Delta R.T. -0.006 min

Lab File: BF135215.D

Acq: 13 Sep 2023 09:46

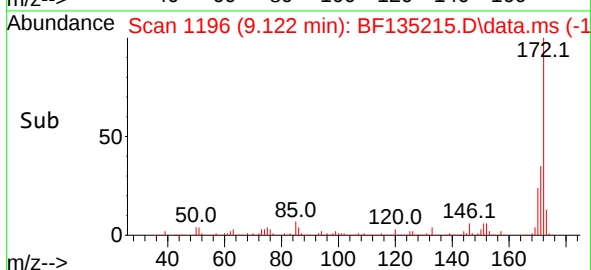
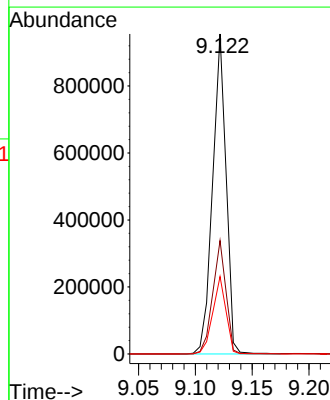
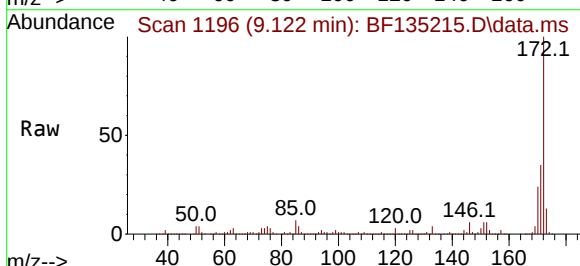
Tgt Ion:172 Resp: 788825

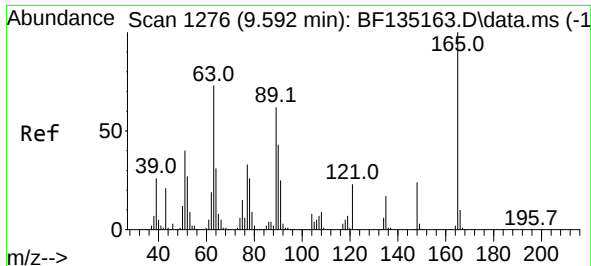
Ion Ratio Lower Upper

172 100

171 35.5 28.4 42.6

170 24.2 19.0 28.4

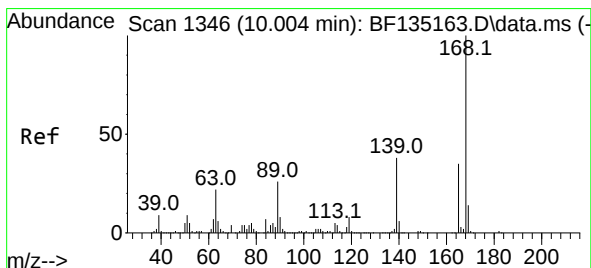
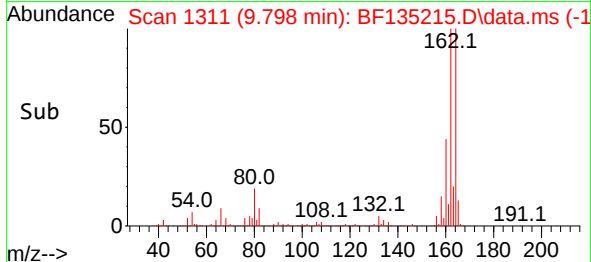
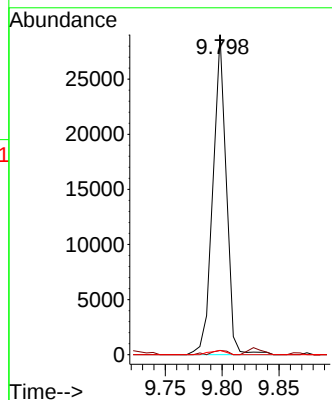
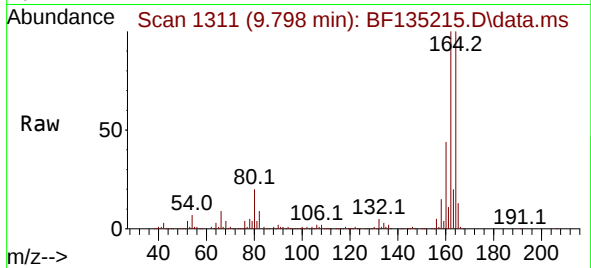




#51  
2,6-Dinitrotoluene  
Concen: 8.763 ng  
RT: 9.798 min Scan# 11  
Delta R.T. 0.206 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

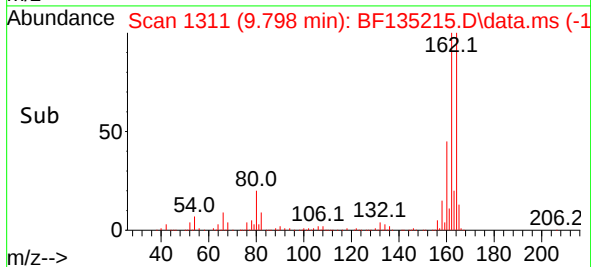
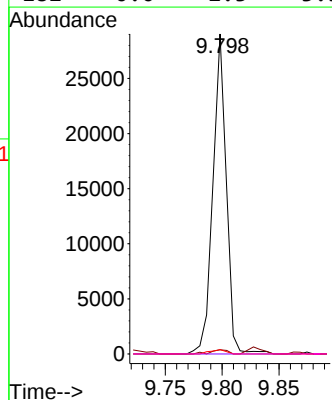
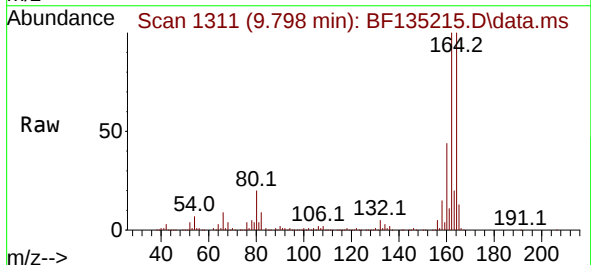
Instrument :  
BNA\_F  
ClientSampleId :

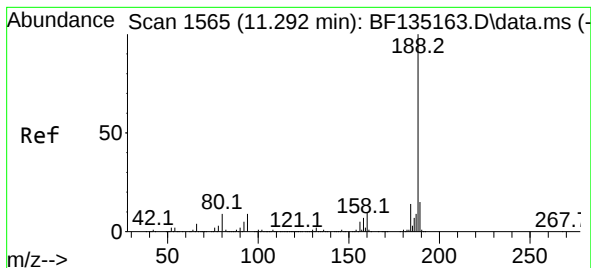
Tgt Ion:165 Resp: 23827  
Ion Ratio Lower Upper  
165 100  
63 1.3 59.4 89.2#  
89 1.4 49.8 74.8#



#57  
2,4-Dinitrotoluene  
Concen: 7.000 ng  
RT: 9.798 min Scan# 1311  
Delta R.T. -0.206 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

Tgt Ion:165 Resp: 23827  
Ion Ratio Lower Upper  
165 100  
63 1.3 50.1 75.1#  
89 1.4 59.3 88.9#  
182 0.0 2.3 3.5#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.292 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF135215.D

Acq: 13 Sep 2023 09:46

Instrument :

BNA\_F

ClientSampleId :

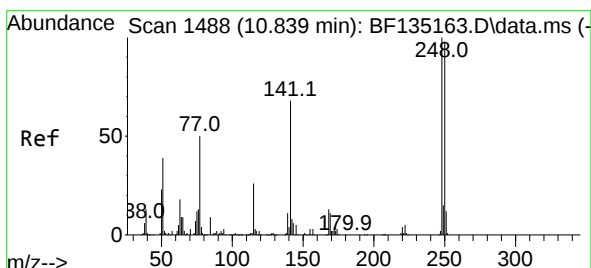
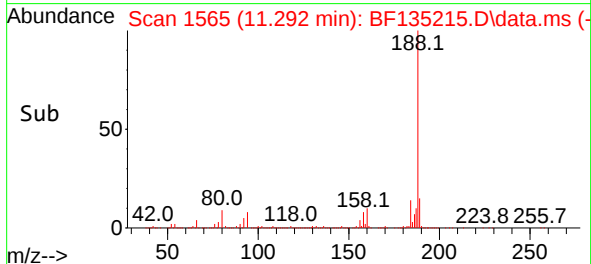
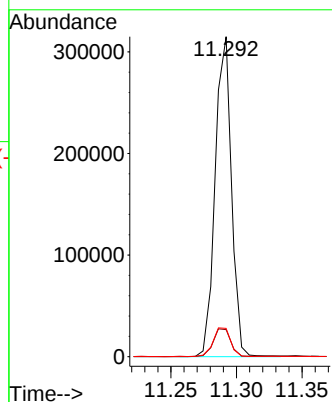
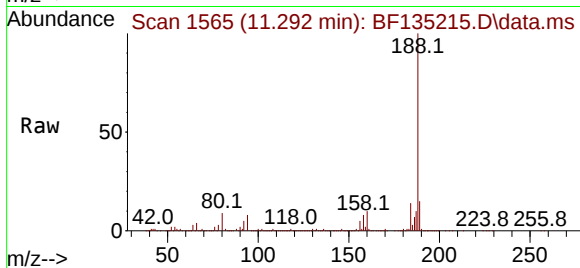
Tgt Ion:188 Resp: 271904

Ion Ratio Lower Upper

188 100

94 8.5 7.0 10.6

80 8.9 7.5 11.3



#67

4-Bromophenyl-phenylether

Concen: 3.447 ng

RT: 10.592 min Scan# 1446

Delta R.T. -0.247 min

Lab File: BF135215.D

Acq: 13 Sep 2023 09:46

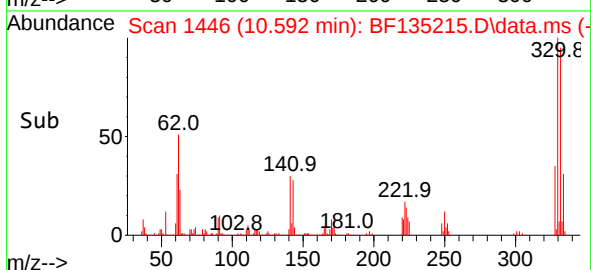
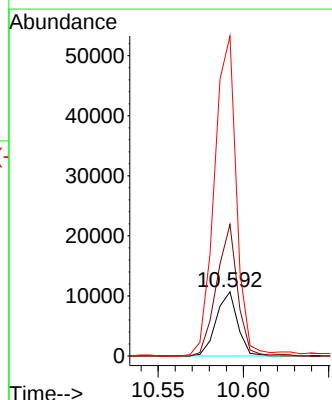
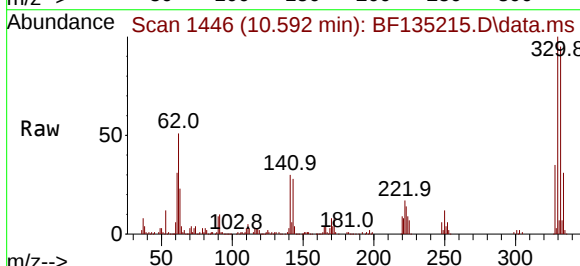
Tgt Ion:248 Resp: 9323

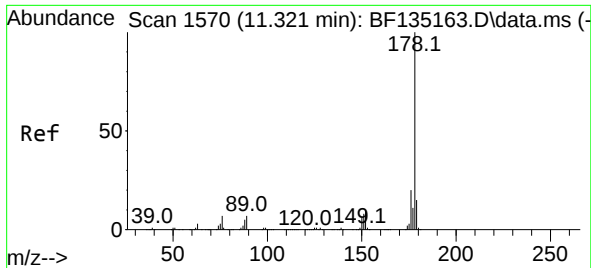
Ion Ratio Lower Upper

248 100

250 204.9 78.6 117.8#

141 498.4 54.2 81.2#

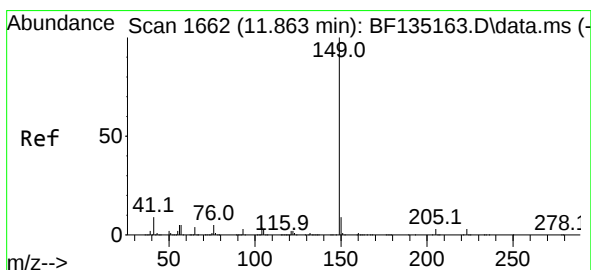
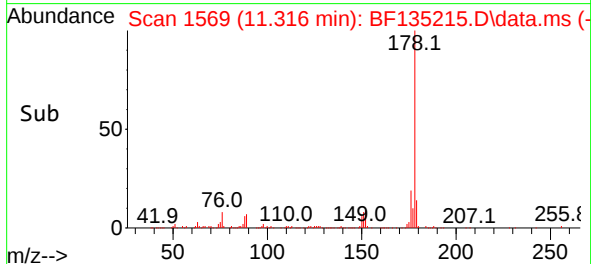
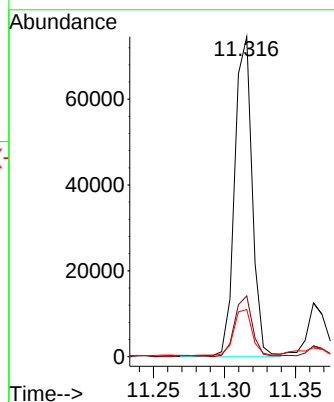
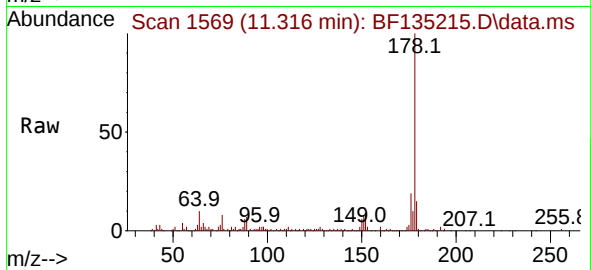




#71  
Phenanthrene  
Concen: 4.977 ng  
RT: 11.316 min Scan# 1569  
Delta R.T. -0.006 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

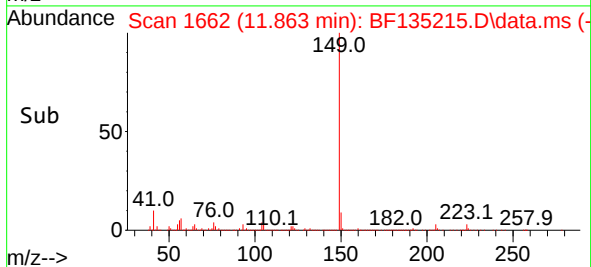
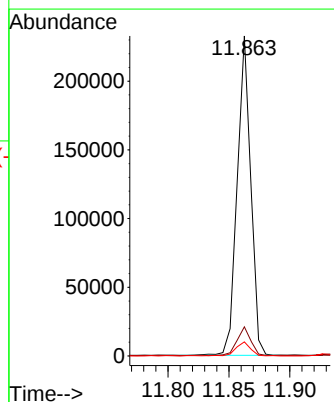
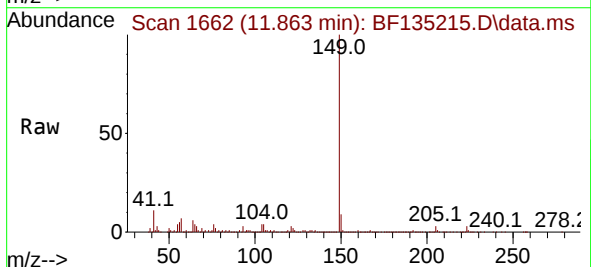
Instrument :  
BNA\_F  
ClientSampleId :

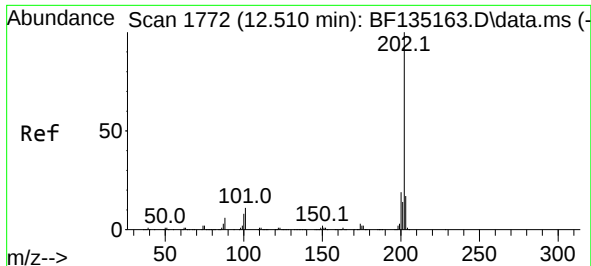
Tgt Ion:178 Resp: 64002  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.6 23.4  
179 14.7 12.0 18.0



#74  
Di-n-butylphthalate  
Concen: 12.686 ng  
RT: 11.863 min Scan# 1662  
Delta R.T. 0.000 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

Tgt Ion:149 Resp: 179881  
Ion Ratio Lower Upper  
149 100  
150 9.1 7.4 11.0  
104 4.4 3.6 5.4

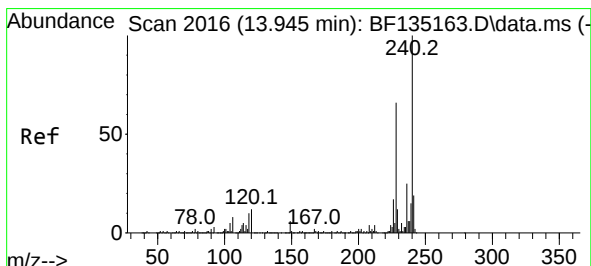
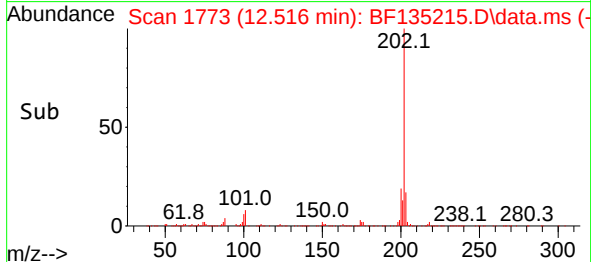
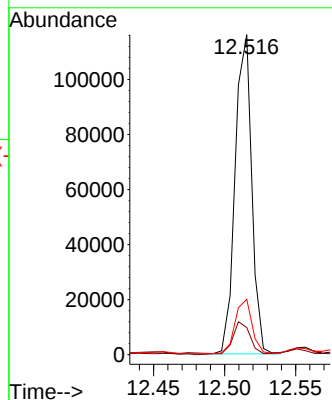
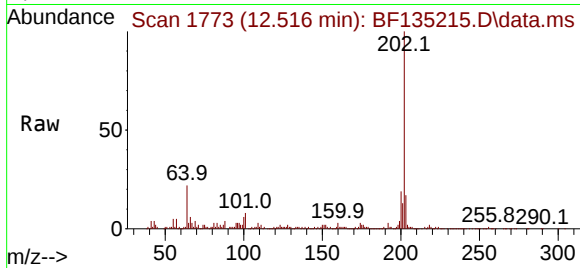




#75  
Fluoranthene  
Concen: 7.070 ng  
RT: 12.516 min Scan# 1773  
Delta R.T. 0.006 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

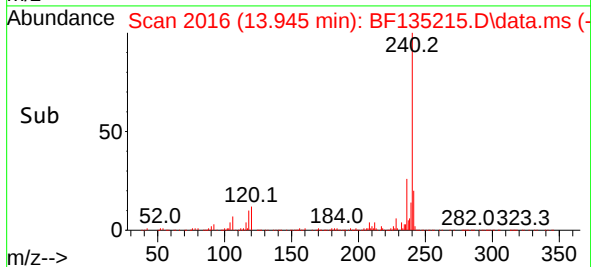
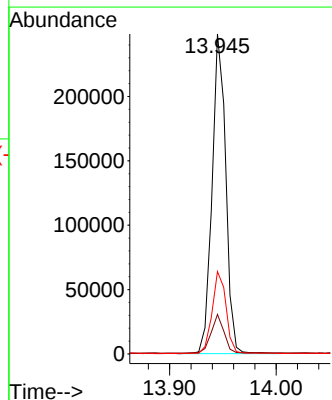
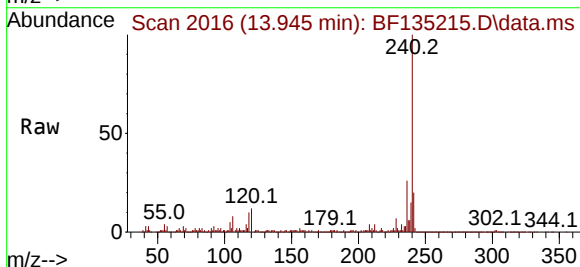
Instrument :  
BNA\_F  
ClientSampleId :

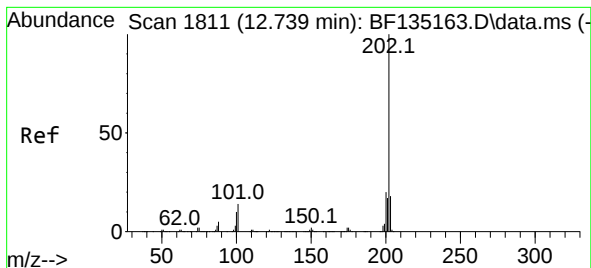
Tgt Ion:202 Resp: 94742  
Ion Ratio Lower Upper  
202 100  
101 8.5 0.0 31.3  
203 17.3 0.0 37.4



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.945 min Scan# 2016  
Delta R.T. 0.000 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

Tgt Ion:240 Resp: 222141  
Ion Ratio Lower Upper  
240 100  
120 12.3 9.4 14.2  
236 25.7 19.8 29.8





#78

Pyrene

Concen: 4.272 ng

RT: 12.739 min Scan# 1811

Delta R.T. 0.000 min

Lab File: BF135215.D

Acq: 13 Sep 2023 09:46

Instrument :

BNA\_F

ClientSampleId :

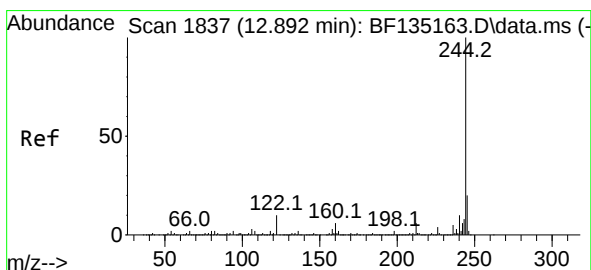
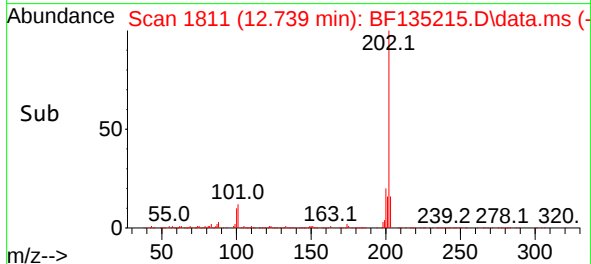
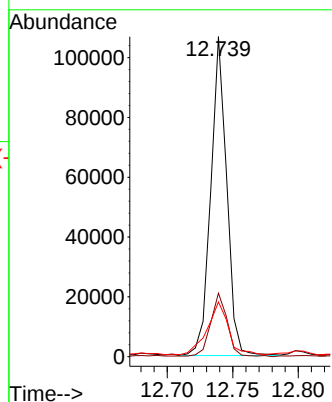
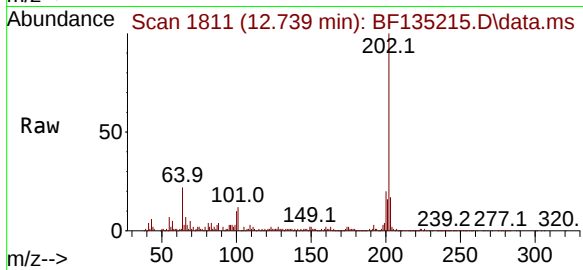
Tgt Ion:202 Resp: 90348

Ion Ratio Lower Upper

202 100

200 19.9 16.2 24.2

203 17.1 14.2 21.4



#79

Terphenyl-d14

Concen: 37.781 ng

RT: 12.886 min Scan# 1836

Delta R.T. -0.006 min

Lab File: BF135215.D

Acq: 13 Sep 2023 09:46

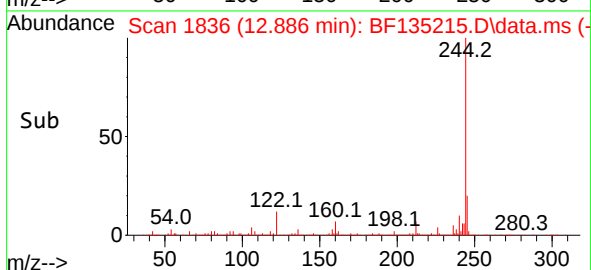
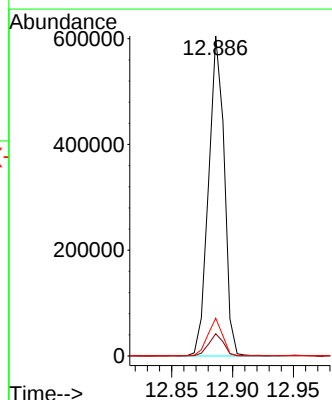
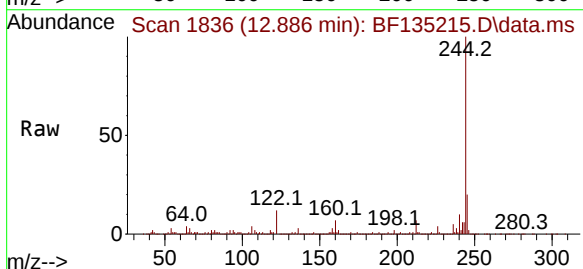
Tgt Ion:244 Resp: 541400

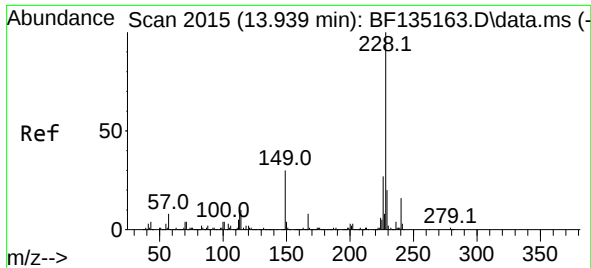
Ion Ratio Lower Upper

244 100

212 7.0 5.1 7.7

122 11.8 7.9 11.9

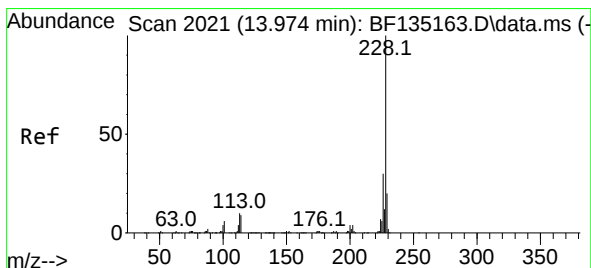
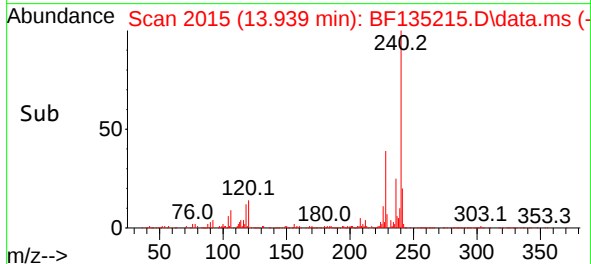
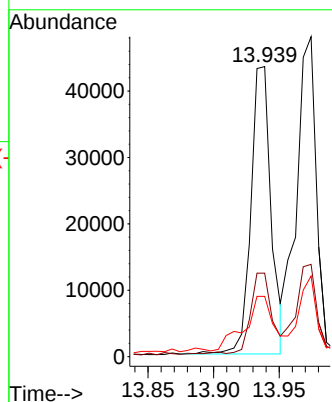
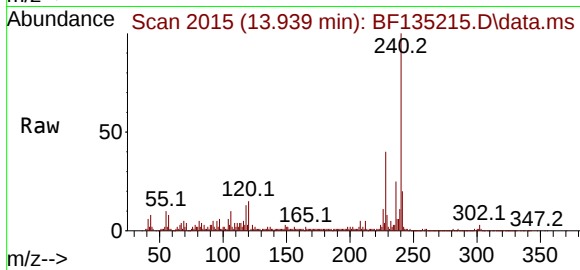




#81  
Benzo(a)anthracene  
Concen: 3.236 ng  
RT: 13.939 min Scan# 2015  
Delta R.T. 0.000 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

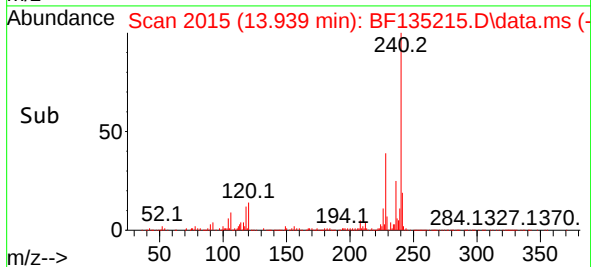
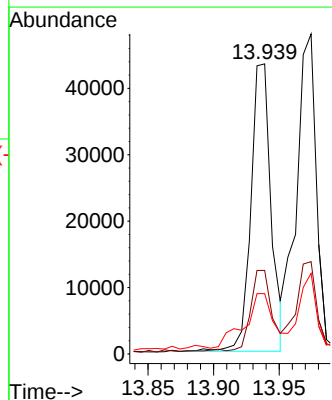
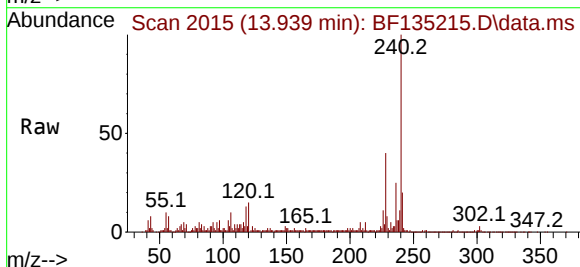
Instrument :  
BNA\_F  
ClientSampleId :

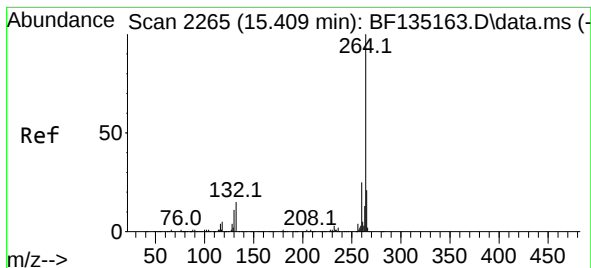
Tgt Ion:228 Resp: 46424  
Ion Ratio Lower Upper  
228 100  
226 28.8 21.7 32.5  
229 20.8 15.8 23.8



#83  
Chrysene  
Concen: 3.255 ng  
RT: 13.939 min Scan# 2015  
Delta R.T. -0.035 min  
Lab File: BF135215.D  
Acq: 13 Sep 2023 09:46

Tgt Ion:228 Resp: 46424  
Ion Ratio Lower Upper  
228 100  
226 28.8 24.3 36.5  
229 20.8 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 2193

Delta R.T. 0.006 min

Lab File: BF135215.D

Acq: 13 Sep 2023 09:46

Instrument :

BNA\_F

ClientSampleId :

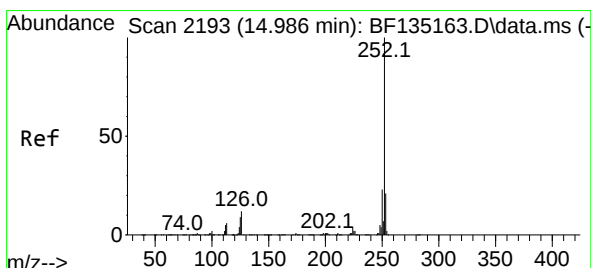
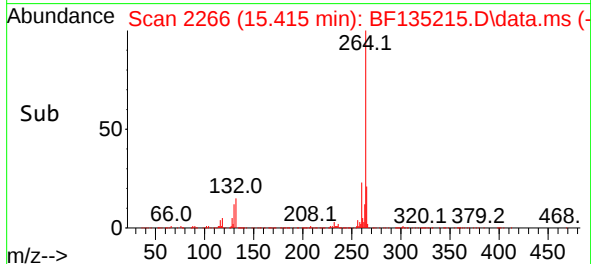
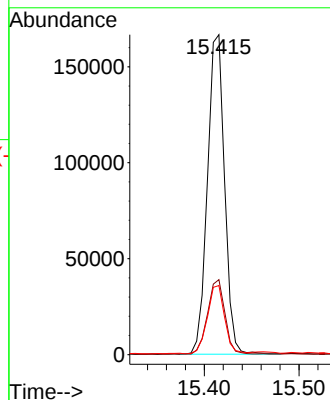
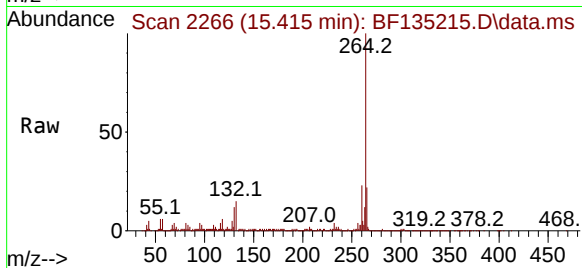
Tgt Ion:264 Resp: 208429

Ion Ratio Lower Upper

264 100

260 23.5 19.8 29.6

265 21.6 17.0 25.4



#88

Benzo(b)fluoranthene

Concen: 6.363 ng

RT: 14.986 min Scan# 2193

Delta R.T. 0.000 min

Lab File: BF135215.D

Acq: 13 Sep 2023 09:46

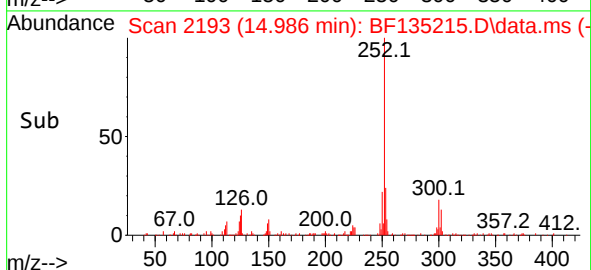
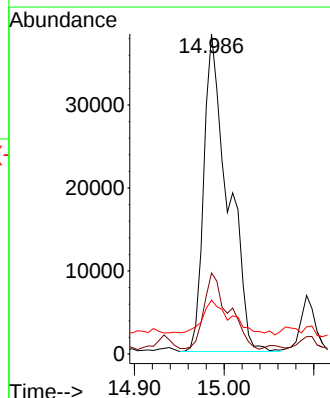
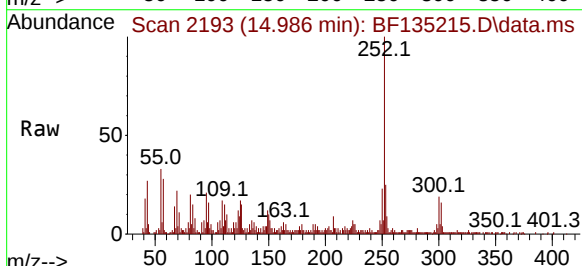
Tgt Ion:252 Resp: 71792

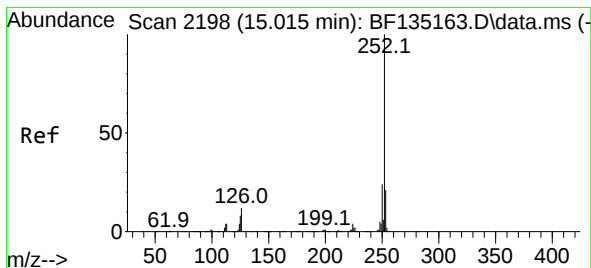
Ion Ratio Lower Upper

252 100

253 25.3 17.2 25.8

125 16.8 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 6.441 ng

RT: 14.986 min Scan# 2198

Delta R.T. -0.029 min

Lab File: BF135215.D

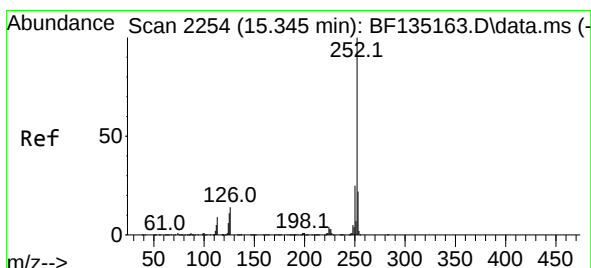
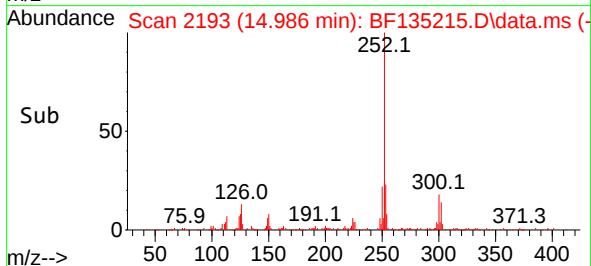
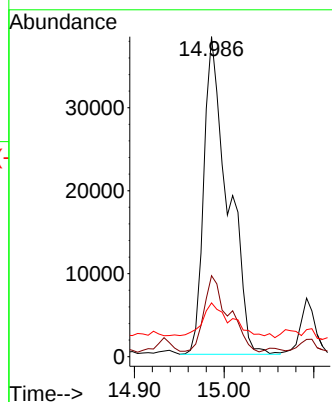
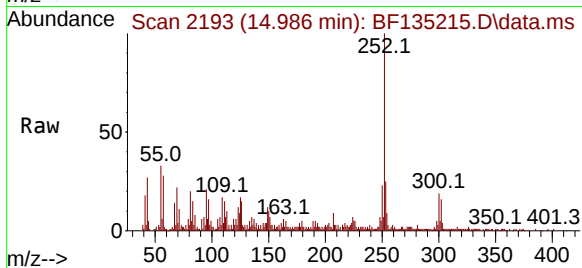
Acq: 13 Sep 2023 09:46

Instrument :

BNA\_F

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 71792     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 25.3  | 17.4 26.0 |
| 125         | 16.8  | 7.2 10.8# |



#90

Benzo(a)pyrene

Concen: 2.920 ng

RT: 15.351 min Scan# 2255

Delta R.T. 0.006 min

Lab File: BF135215.D

Acq: 13 Sep 2023 09:46

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 31416     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 25.7  | 17.5 26.3 |
| 125         | 20.1  | 9.2 13.8# |

