

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082124\  
 Data File : BF139103.D  
 Acq On : 21 Aug 2024 15:51  
 Operator : RC/JU  
 Sample : P3663-02  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 910-J-SD-0.5-1-081624

Quant Time: Aug 21 16:34:29 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF082024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 21 01:25:05 2024  
 Response via : Initial Calibration

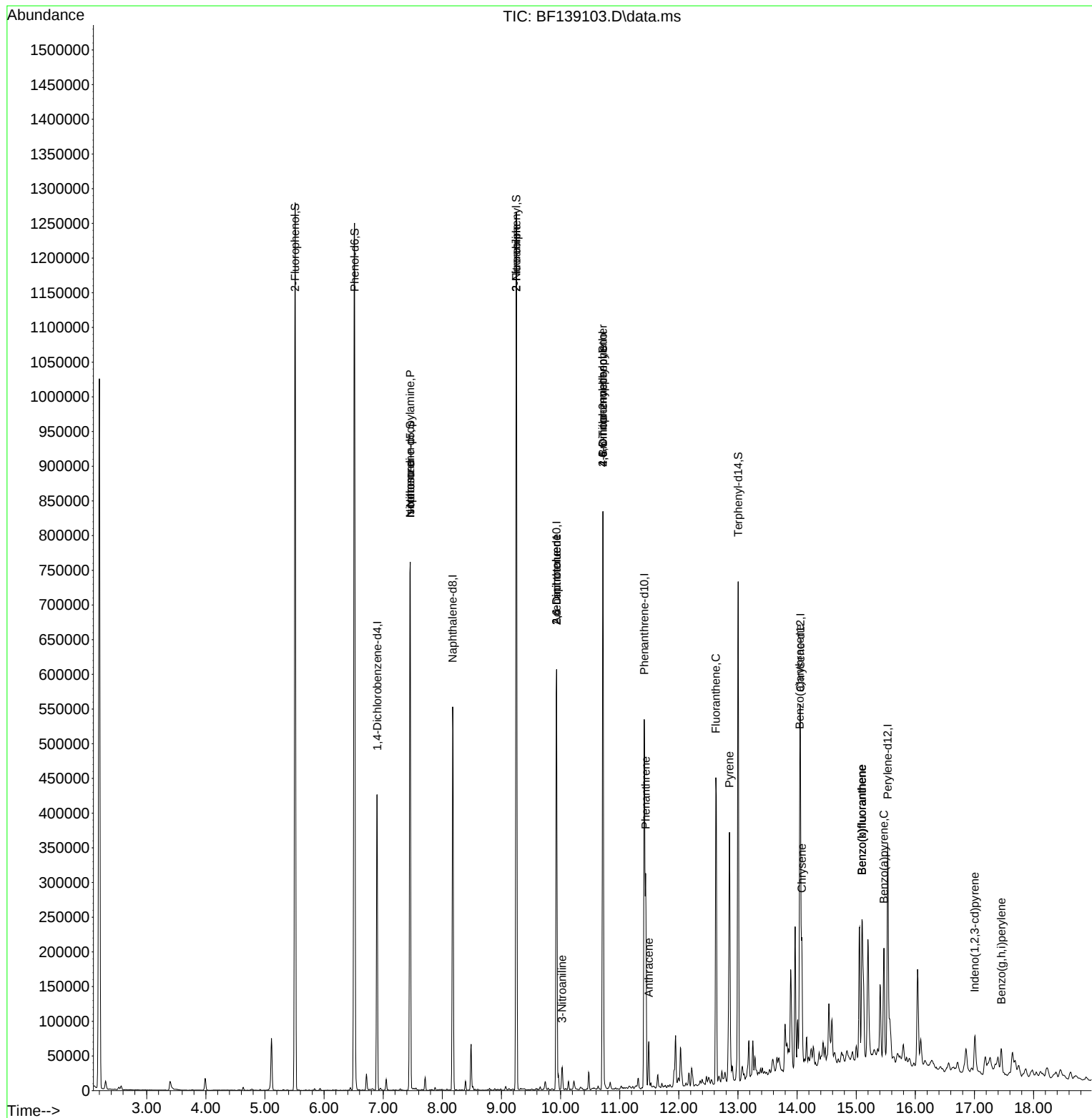
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.898  | 152  | 85511    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.175  | 136  | 315314   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.933  | 164  | 177801   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.416 | 188  | 265235   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.057 | 240  | 154529   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.533 | 264  | 174421   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.510  | 112  | 423197   | 76.142 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.516  | 99   | 564961   | 78.667 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.457  | 82   | 340825   | 62.984 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.716 | 330  | 122382   | 76.032 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.251  | 172  | 517723   | 46.199 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.004 | 244  | 328876   | 35.314 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.457  | 70   | 46722    | 9.907  | ng    | # 80     |
| 25) Isophorone                | 7.457  | 82   | 340755   | 29.627 | ng    | # 69     |
| 48) 2-Nitroaniline            | 9.251  | 65   | 1092     | 5.997  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.933  | 165  | 22112    | 13.615 | ng    | # 17     |
| 53) 3-Nitroaniline            | 10.027 | 138  | 226      | 4.267  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 9.933  | 165  | 22112    | 12.631 | ng    | # 17     |
| 65) 4,6-Dinitro-2-methylph... | 10.716 | 198  | 272      | 6.781  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.716 | 248  | 8828     | 3.141  | ng    | # 1      |
| 71) Phenanthrene              | 11.439 | 178  | 152636   | 11.322 | ng    | 99       |
| 72) Anthracene                | 11.492 | 178  | 34547    | 2.620  | ng    | 97       |
| 75) Fluoranthene              | 12.627 | 202  | 242806   | 16.874 | ng    | 100      |
| 78) Pyrene                    | 12.857 | 202  | 197831   | 15.341 | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.045 | 228  | 111891   | 11.015 | ng    | 99       |
| 83) Chrysene                  | 14.080 | 228  | 91711    | 9.961  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.003 | 276  | 41297    | 4.046  | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.098 | 252  | 177752   | 15.632 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.098 | 252  | 177752   | 18.768 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.468 | 252  | 93328    | 10.387 | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.456 | 276  | 35619    | 6.298  | ng    | 98       |
| -----                         |        |      |          |        |       |          |

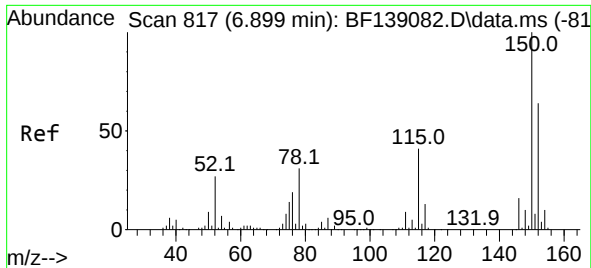
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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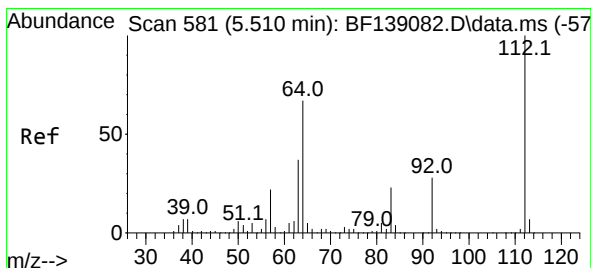
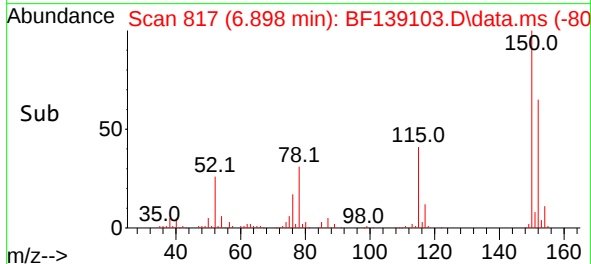
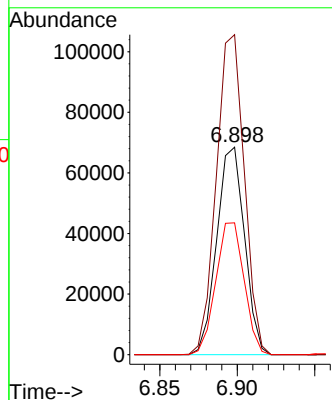
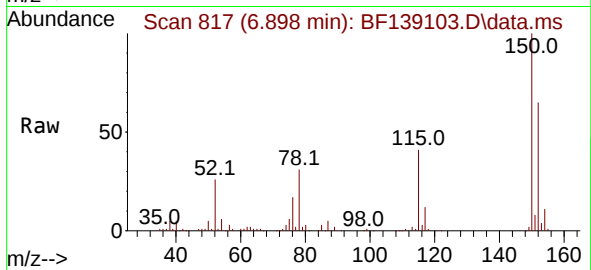




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.898 min Scan# 81  
Delta R.T. -0.001 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

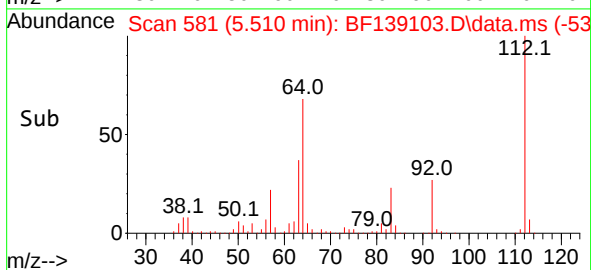
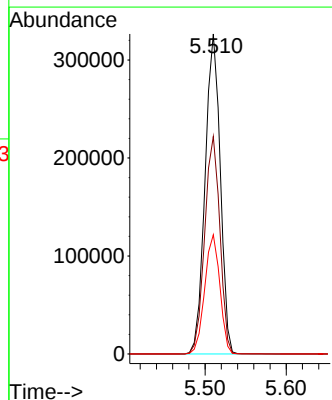
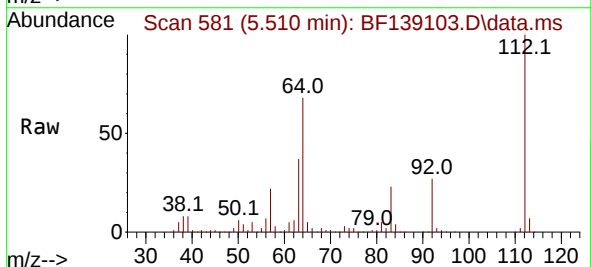
Instrument :  
BNA\_F  
ClientSampleId :  
910-J-SD-0.5-1-081624

Tgt Ion:152 Resp: 85511  
Ion Ratio Lower Upper  
152 100  
150 154.2 125.1 187.7  
115 63.5 51.8 77.6



#5  
2-Fluorophenol  
Concen: 76.142 ng  
RT: 5.510 min Scan# 581  
Delta R.T. -0.000 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

Tgt Ion:112 Resp: 423197  
Ion Ratio Lower Upper  
112 100  
64 67.9 53.8 80.6  
63 37.2 29.4 44.2

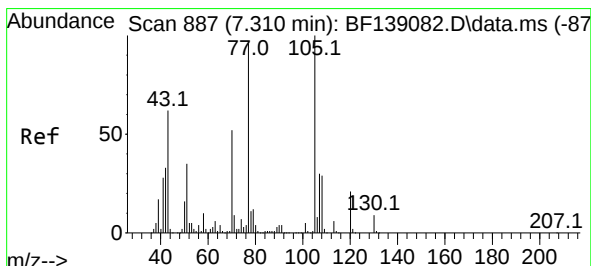
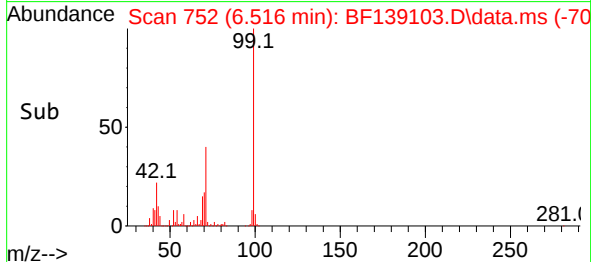
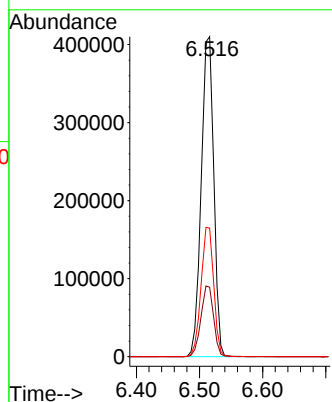
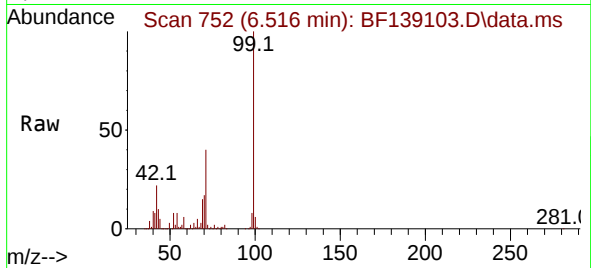




#7  
Phenol-d6  
Concen: 78.667 ng  
RT: 6.516 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

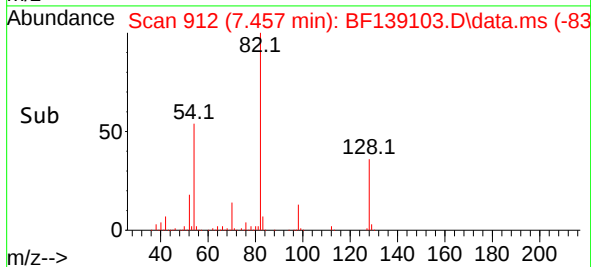
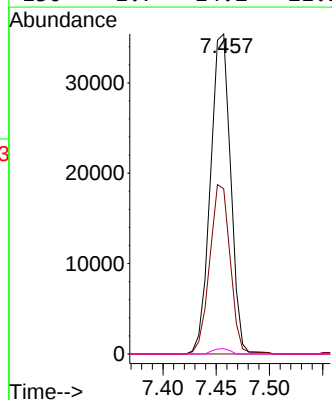
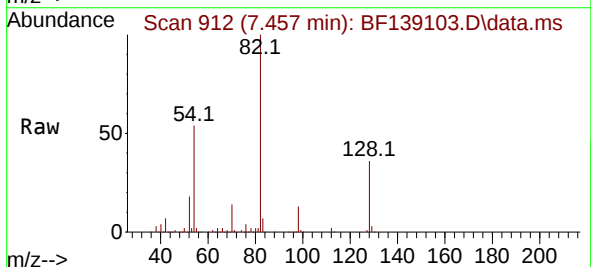
Instrument :  
BNA\_F  
ClientSampleId :  
910-J-SD-0.5-1-081624

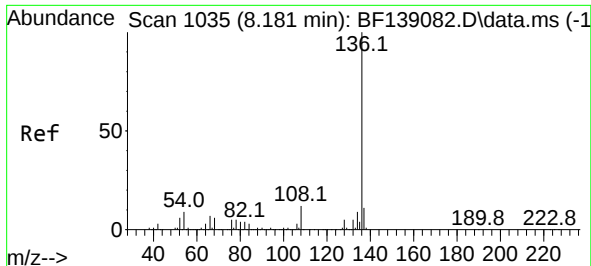
Tgt Ion: 99 Resp: 564961  
Ion Ratio Lower Upper  
99 100  
42 21.7 17.4 26.2  
71 40.2 31.2 46.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 9.907 ng  
RT: 7.457 min Scan# 912  
Delta R.T. 0.147 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

Tgt Ion: 70 Resp: 46722  
Ion Ratio Lower Upper  
70 100  
42 51.6 50.5 75.7  
101 0.0 7.2 10.8#  
130 1.7 14.2 21.2#

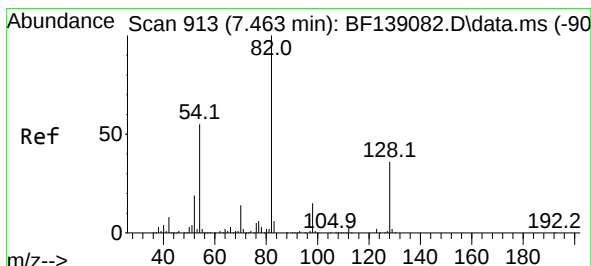
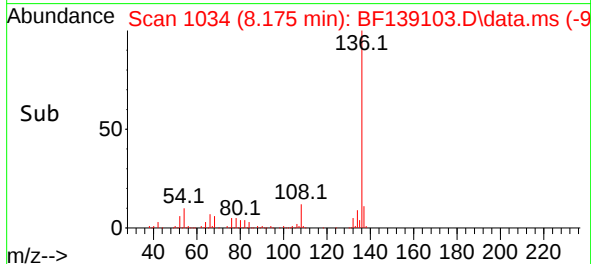
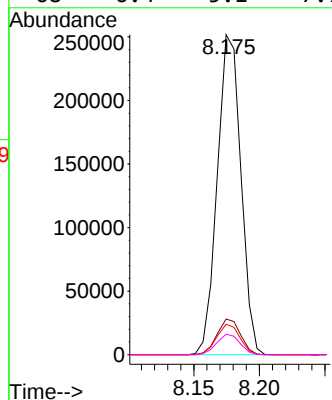
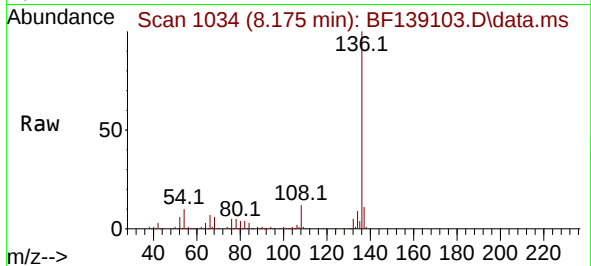




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.175 min Scan# 1034  
Delta R.T. -0.006 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

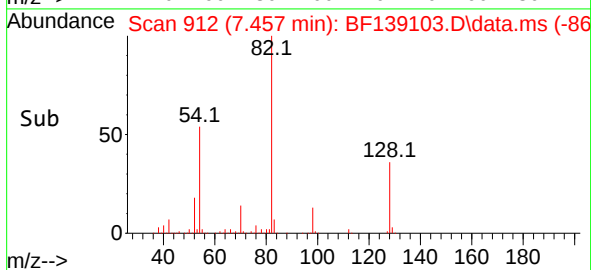
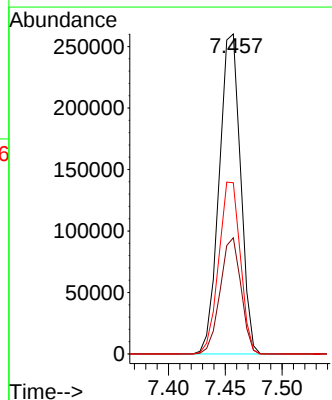
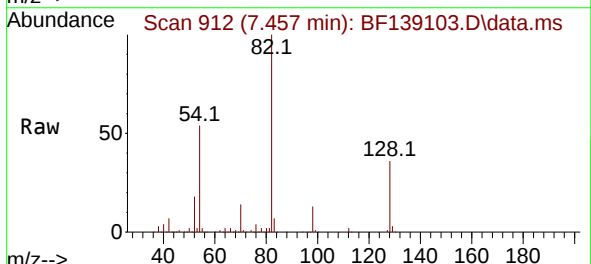
Instrument :  
BNA\_F  
ClientSampleId :  
910-J-SD-0.5-1-081624

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 315314 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.7   | 13.1   |
| 54       | 9.5   | 7.6   | 11.4   |
| 68       | 6.4   | 5.1   | 7.7    |



#23  
Nitrobenzene-d5  
Concen: 62.984 ng  
RT: 7.457 min Scan# 912  
Delta R.T. -0.006 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 340825 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 36.3  | 29.0  | 43.4   |
| 54       | 53.5  | 43.4  | 65.2   |

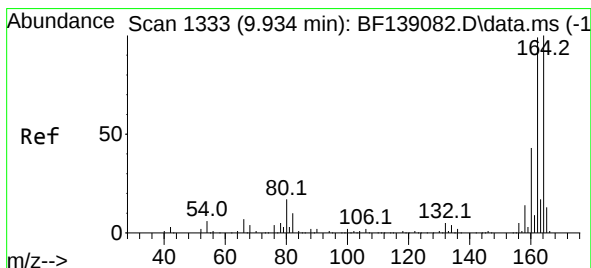
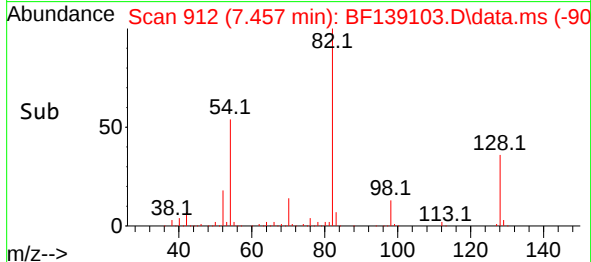
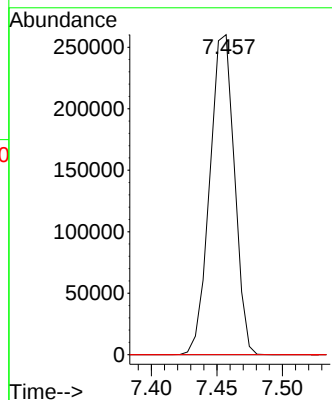
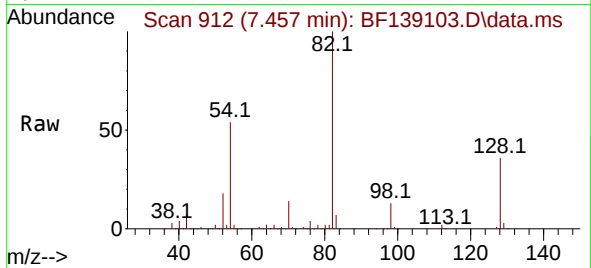




#25  
Isophorone  
Concen: 29.627 ng  
RT: 7.457 min Scan# 912  
Delta R.T. -0.259 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

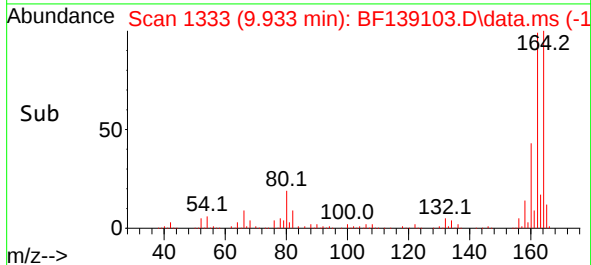
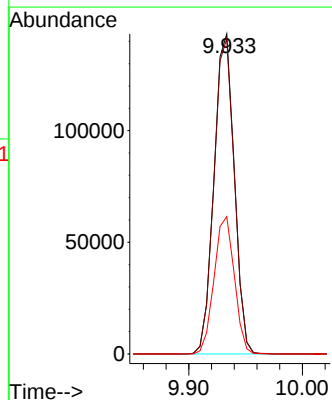
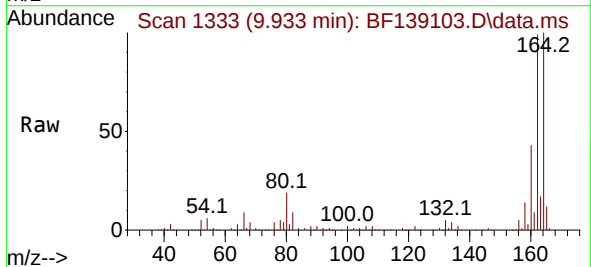
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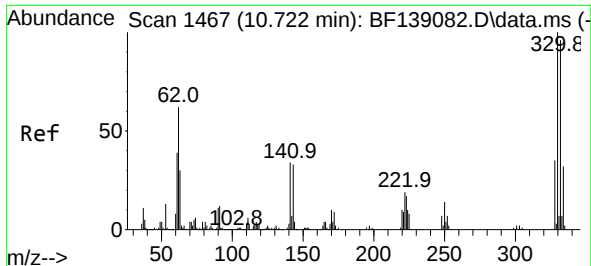
Tgt Ion: 82 Resp: 340755  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.9 8.9#  
138 0.0 11.8 17.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.933 min Scan# 1333  
Delta R.T. -0.001 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

Tgt Ion:164 Resp: 177801  
Ion Ratio Lower Upper  
164 100  
162 98.5 79.5 119.3  
160 42.9 34.5 51.7

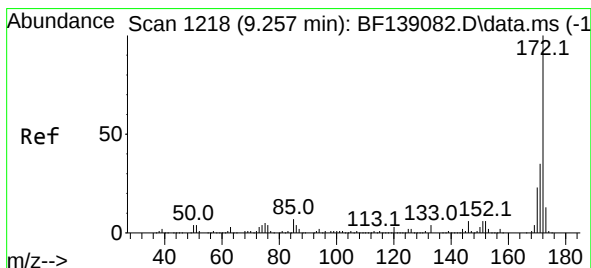
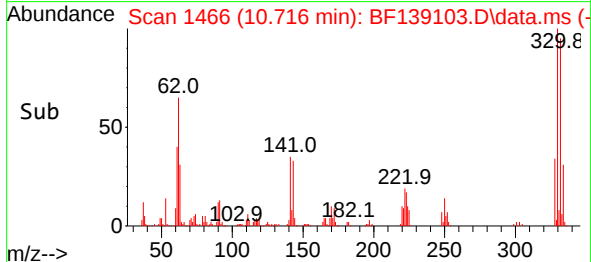
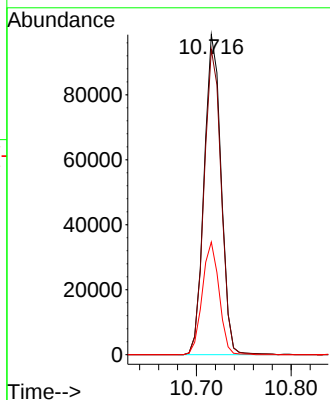
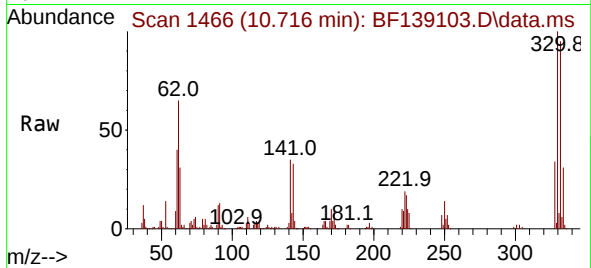




#42  
 2,4,6-Tribromophenol  
 Concen: 76.032 ng  
 RT: 10.716 min Scan# 1466  
 Delta R.T. -0.006 min  
 Lab File: BF139103.D  
 Acq: 21 Aug 2024 15:51

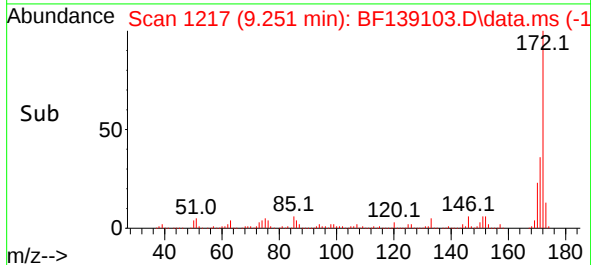
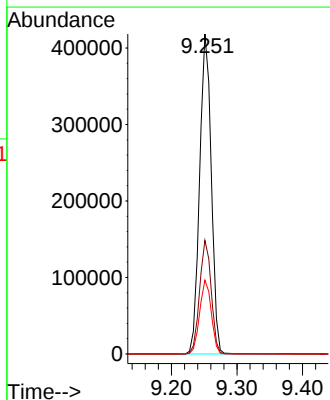
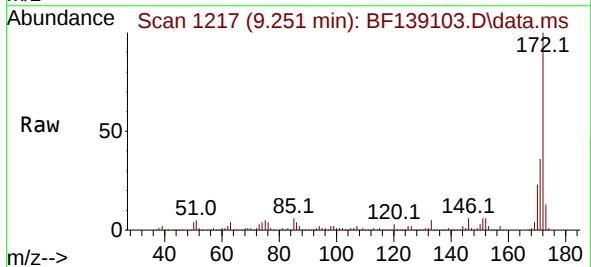
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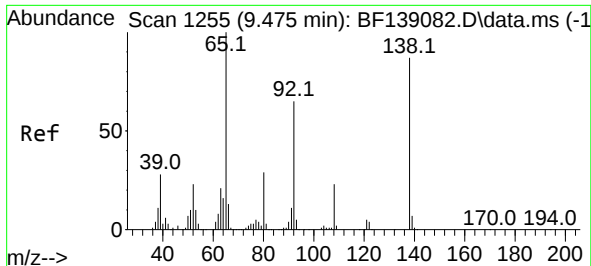
Tgt Ion: 330 Resp: 122382  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 77.0 115.6  
 141 34.8 27.5 41.3



#45  
 2-Fluorobiphenyl  
 Concen: 46.199 ng  
 RT: 9.251 min Scan# 1217  
 Delta R.T. -0.006 min  
 Lab File: BF139103.D  
 Acq: 21 Aug 2024 15:51

Tgt Ion: 172 Resp: 517723  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 28.4 42.6  
 170 23.1 18.8 28.2





#48

2-Nitroaniline

Concen: 5.997 ng

RT: 9.251 min Scan# 11

Delta R.T. -0.224 min

Lab File: BF139103.D

Acq: 21 Aug 2024 15:51

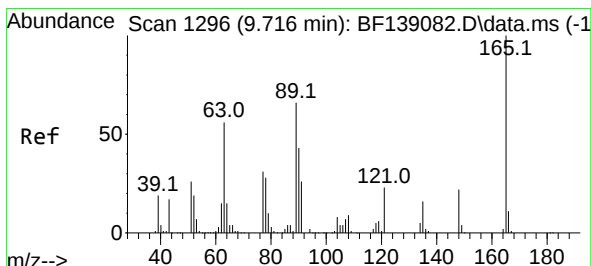
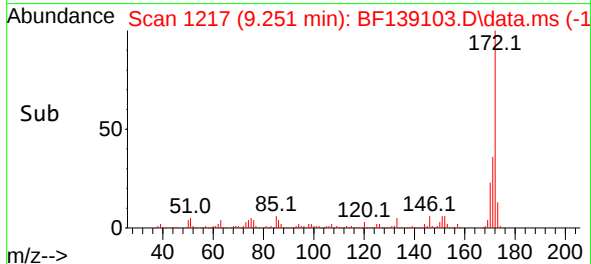
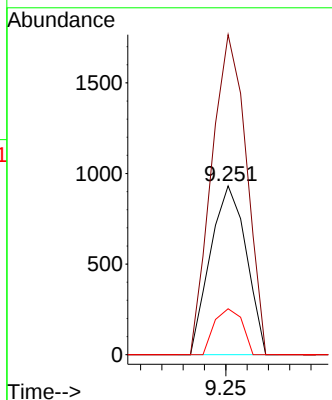
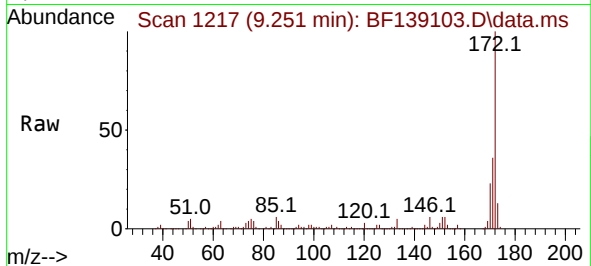
Instrument :

BNA\_F

ClientSampleId :

910-J-SD-0.5-1-081624

|             |                  |
|-------------|------------------|
| Tgt Ion: 65 | Resp: 1092       |
| Ion Ratio   | Lower Upper      |
| 65          | 100              |
| 92          | 189.5 52.4 78.6# |
| 138         | 27.1 69.4 104.0# |



#51

2,6-Dinitrotoluene

Concen: 13.615 ng

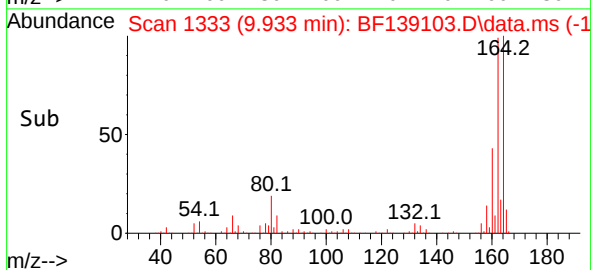
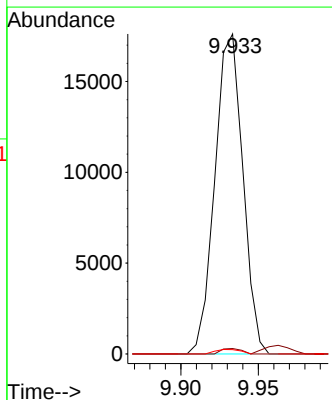
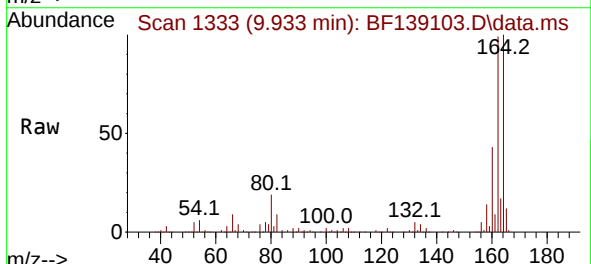
RT: 9.933 min Scan# 1333

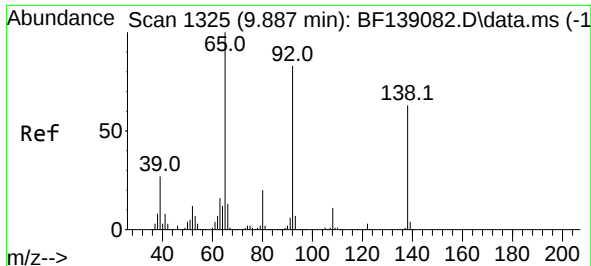
Delta R.T. 0.217 min

Lab File: BF139103.D

Acq: 21 Aug 2024 15:51

|              |                |
|--------------|----------------|
| Tgt Ion: 165 | Resp: 22112    |
| Ion Ratio    | Lower Upper    |
| 165          | 100            |
| 63           | 1.7 58.0 87.0# |
| 89           | 1.4 53.3 79.9# |

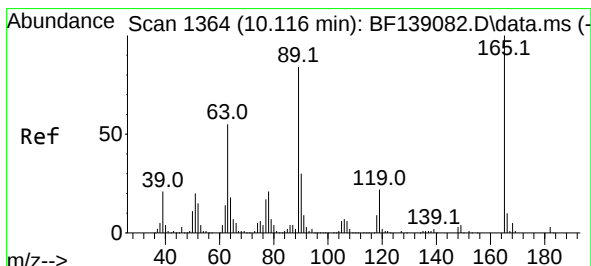
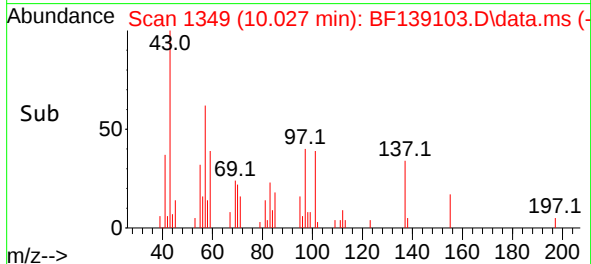
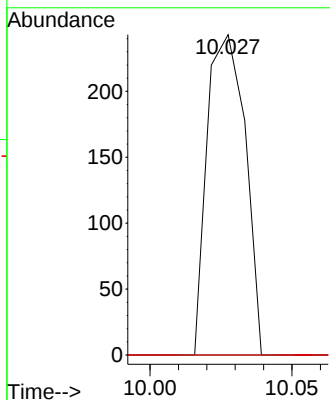
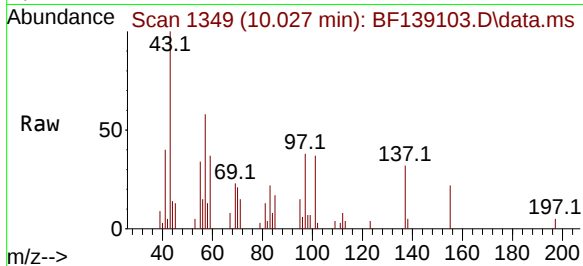




#53  
3-Nitroaniline  
Concen: 4.267 ng  
RT: 10.027 min Scan# 11  
Delta R.T. 0.140 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

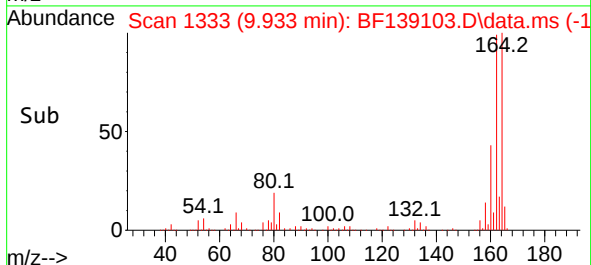
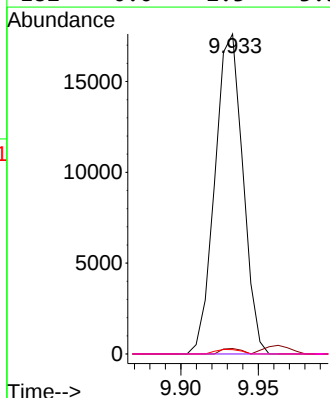
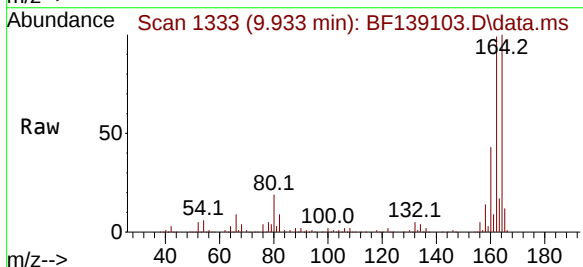
Instrument :  
BNA\_F  
ClientSampleId :  
910-J-SD-0.5-1-081624

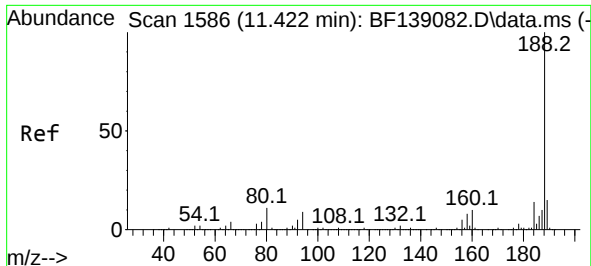
Tgt Ion:138 Resp: 226  
Ion Ratio Lower Upper  
138 100  
108 0.0 14.6 21.8#  
92 0.0 105.9 158.9#



#57  
2,4-Dinitrotoluene  
Concen: 12.631 ng  
RT: 9.933 min Scan# 1333  
Delta R.T. -0.183 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

Tgt Ion:165 Resp: 22112  
Ion Ratio Lower Upper  
165 100  
63 1.7 44.2 66.4#  
89 1.4 67.4 101.2#  
182 0.0 2.3 3.5#

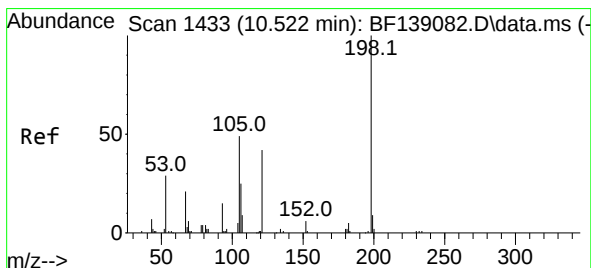
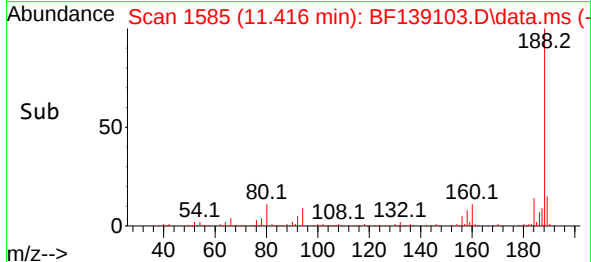
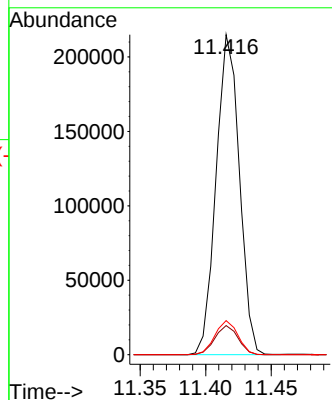
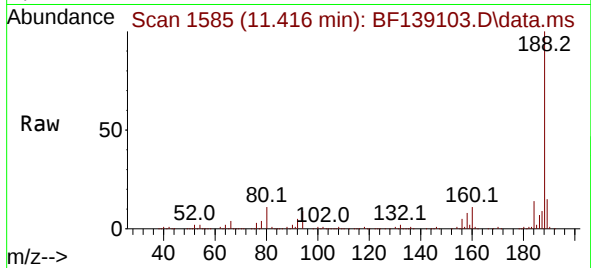




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

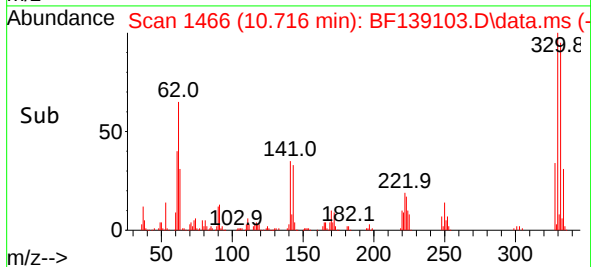
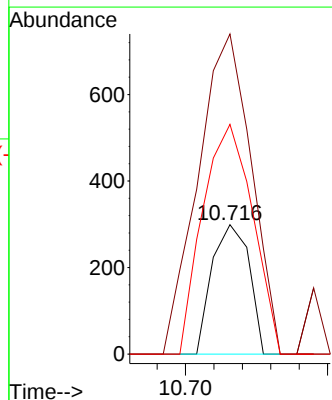
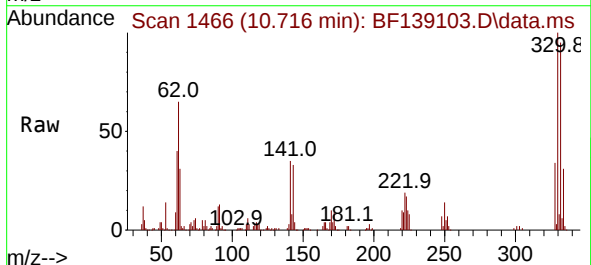
Instrument :  
BNA\_F  
ClientSampleId :  
910-J-SD-0.5-1-081624

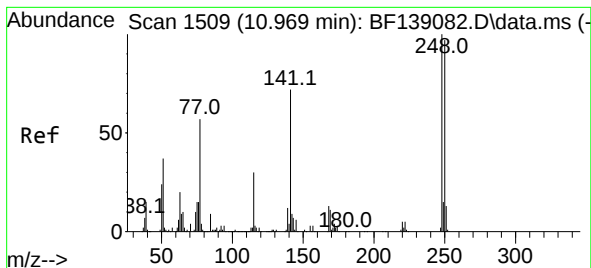
Tgt Ion:188 Resp: 265235  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.2 10.8  
80 10.7 8.5 12.7



#65  
4,6-Dinitro-2-methylphenol  
Concen: 6.781 ng  
RT: 10.716 min Scan# 1466  
Delta R.T. 0.194 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

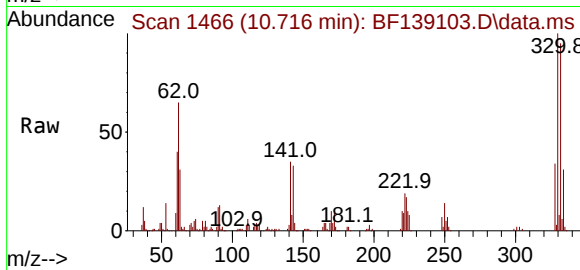
Tgt Ion:198 Resp: 272  
Ion Ratio Lower Upper  
198 100  
51 247.5 40.8 80.8#  
105 177.6 30.9 70.9#



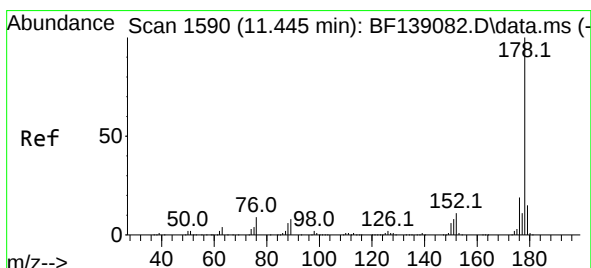
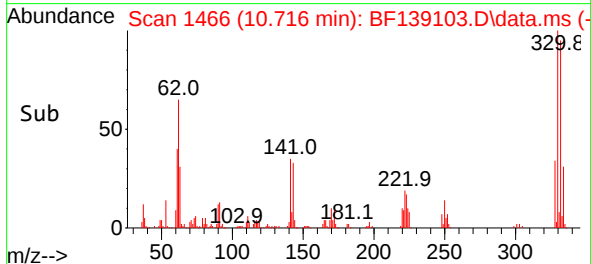
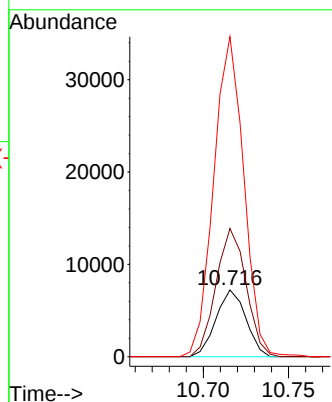


#67  
4-Bromophenyl-phenylether  
Concen: 3.141 ng  
RT: 10.716 min Scan# 1466  
Delta R.T. -0.253 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

Instrument :  
BNA\_F  
ClientSampleId :  
910-J-SD-0.5-1-081624

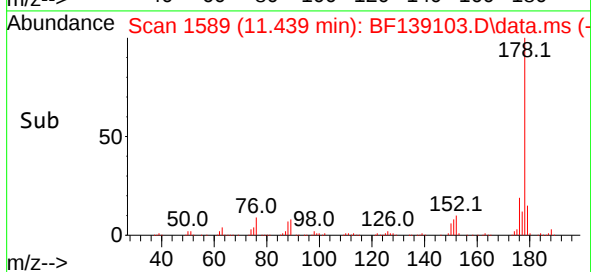
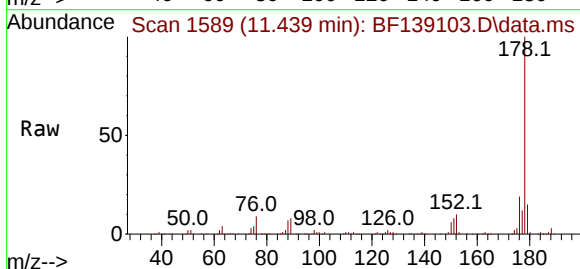
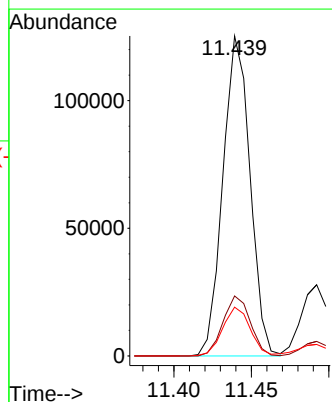


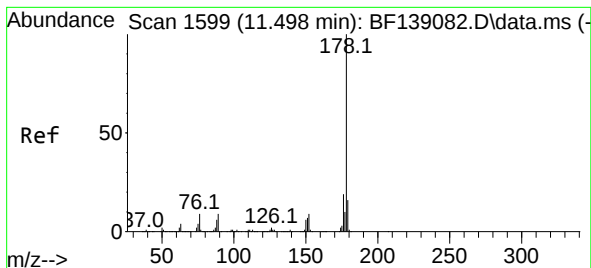
Tgt Ion:248 Resp: 8828  
Ion Ratio Lower Upper  
248 100  
250 192.1 77.8 116.8#  
141 479.7 57.9 86.9#



#71  
Phenanthrene  
Concen: 11.322 ng  
RT: 11.439 min Scan# 1589  
Delta R.T. -0.006 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

Tgt Ion:178 Resp: 152636  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.4 23.2  
179 15.2 12.3 18.5





#72

Anthracene

Concen: 2.620 ng

RT: 11.492 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF139103.D

Acq: 21 Aug 2024 15:51

Instrument :

BNA\_F

ClientSampleId :

910-J-SD-0.5-1-081624

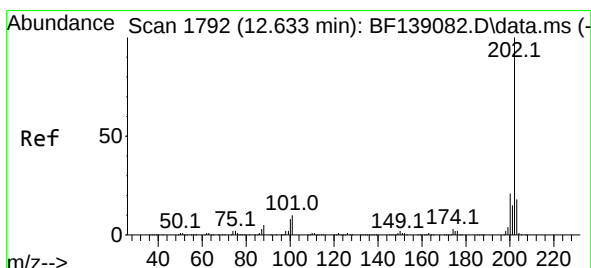
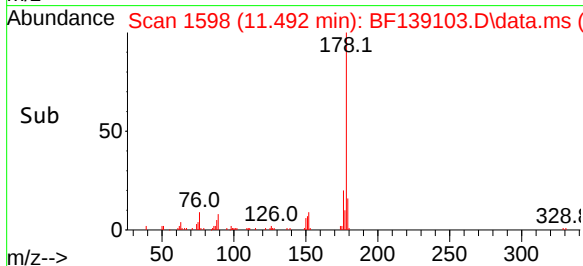
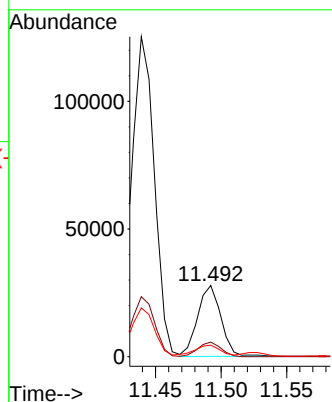
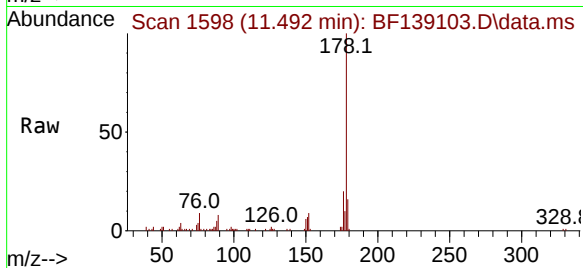
Tgt Ion:178 Resp: 34547

Ion Ratio Lower Upper

178 100

176 20.5 15.0 22.4

179 16.2 12.4 18.6



#75

Fluoranthene

Concen: 16.874 ng

RT: 12.627 min Scan# 1791

Delta R.T. -0.006 min

Lab File: BF139103.D

Acq: 21 Aug 2024 15:51

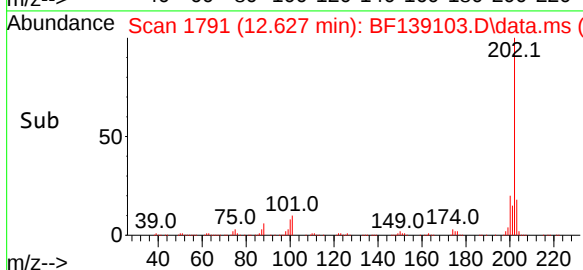
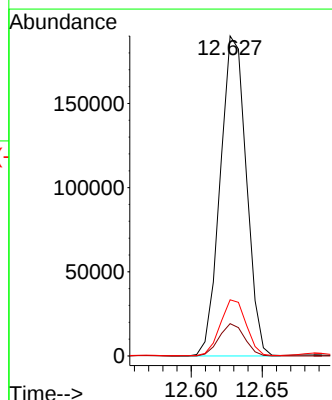
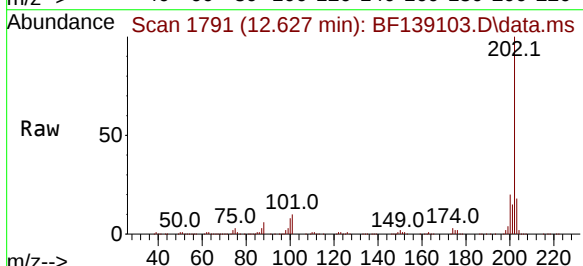
Tgt Ion:202 Resp: 242806

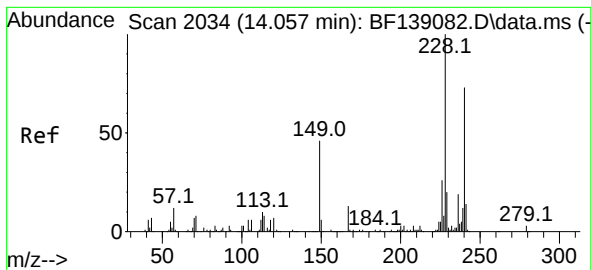
Ion Ratio Lower Upper

202 100

101 10.1 0.0 30.2

203 17.5 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2034

Delta R.T. -0.000 min

Lab File: BF139103.D

Acq: 21 Aug 2024 15:51

Instrument :

BNA\_F

ClientSampleId :

910-J-SD-0.5-1-081624

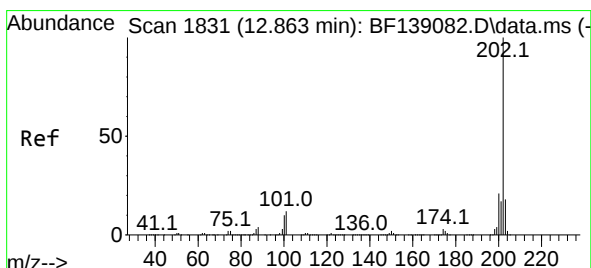
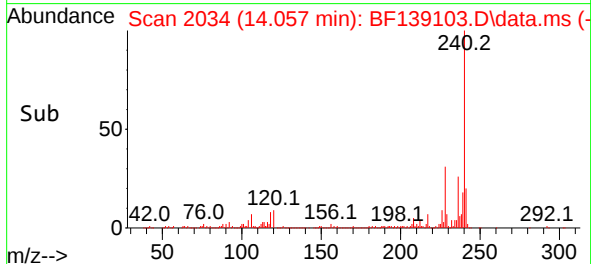
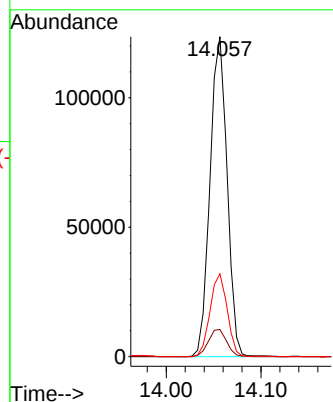
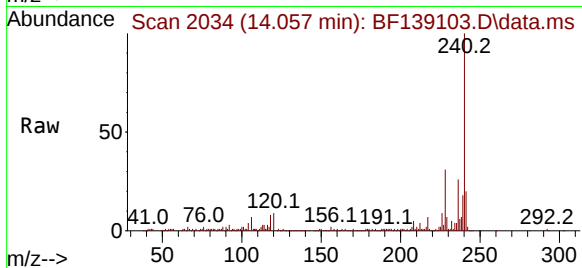
Tgt Ion:240 Resp: 154529

Ion Ratio Lower Upper

240 100

120 8.5 7.8 11.6

236 25.9 20.9 31.3



#78

Pyrene

Concen: 15.341 ng

RT: 12.857 min Scan# 1830

Delta R.T. -0.006 min

Lab File: BF139103.D

Acq: 21 Aug 2024 15:51

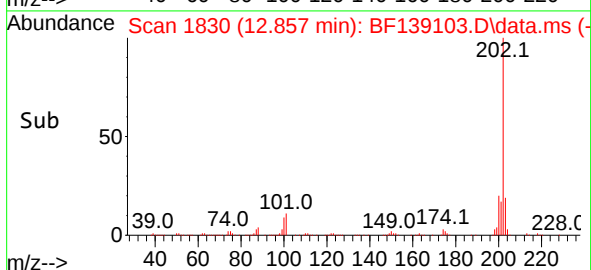
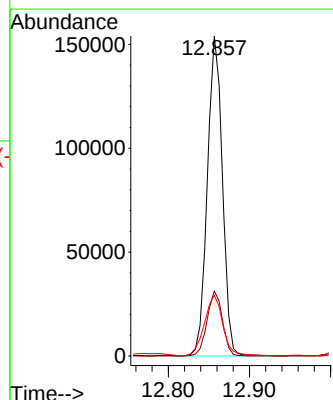
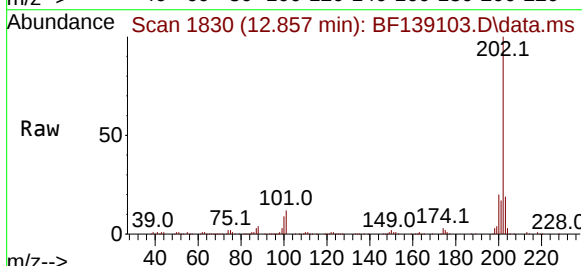
Tgt Ion:202 Resp: 197831

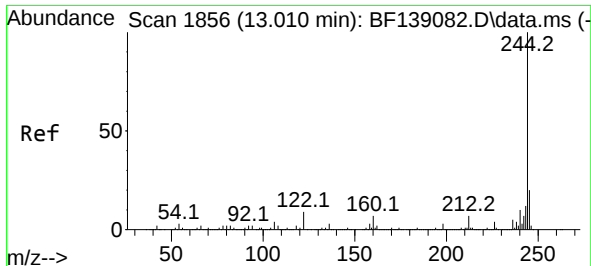
Ion Ratio Lower Upper

202 100

200 20.3 17.0 25.6

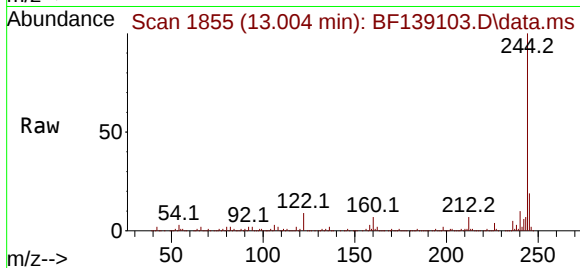
203 19.0 14.1 21.1



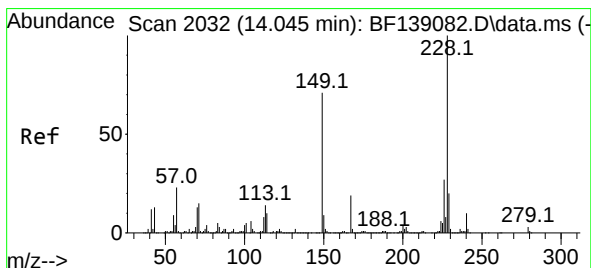
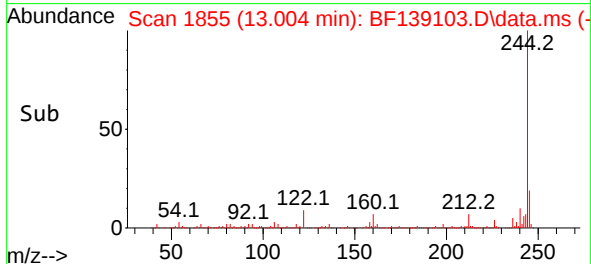
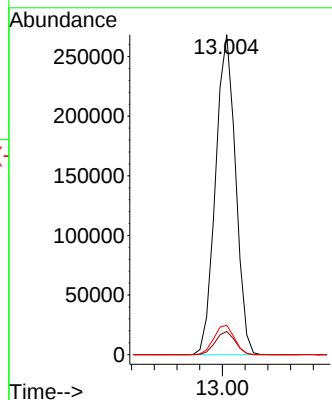


#79  
 Terphenyl-d14  
 Concen: 35.314 ng  
 RT: 13.004 min Scan# 1855  
 Delta R.T. -0.006 min  
 Lab File: BF139103.D  
 Acq: 21 Aug 2024 15:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 910-J-SD-0.5-1-081624

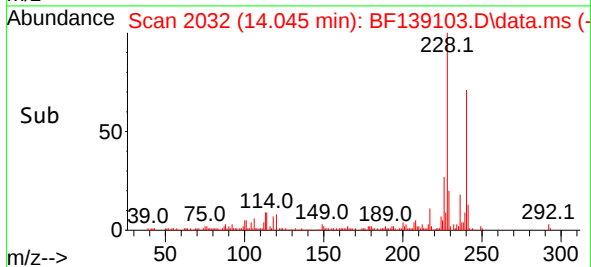
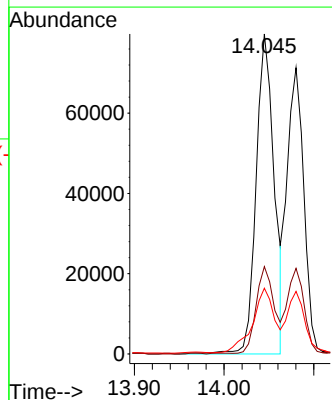
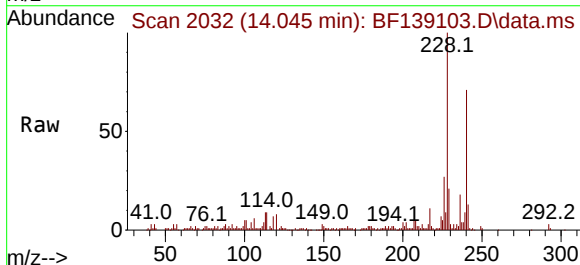


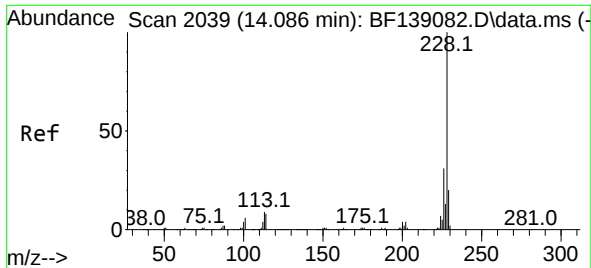
Tgt Ion:244 Resp: 328876  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.8 8.6  
 122 9.2 7.6 11.4



#81  
 Benzo(a)anthracene  
 Concen: 11.015 ng  
 RT: 14.045 min Scan# 2032  
 Delta R.T. -0.000 min  
 Lab File: BF139103.D  
 Acq: 21 Aug 2024 15:51

Tgt Ion:228 Resp: 111891  
 Ion Ratio Lower Upper  
 228 100  
 226 27.3 21.9 32.9  
 229 20.5 16.1 24.1

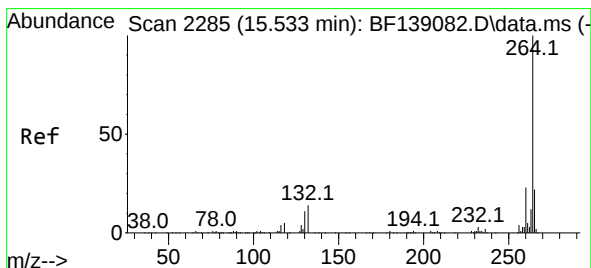
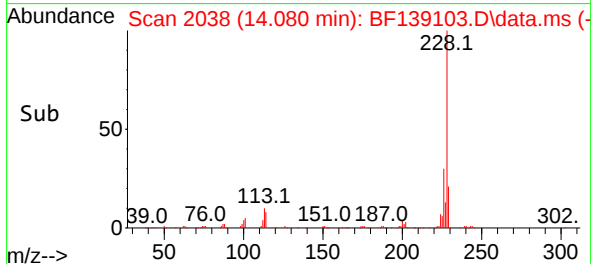
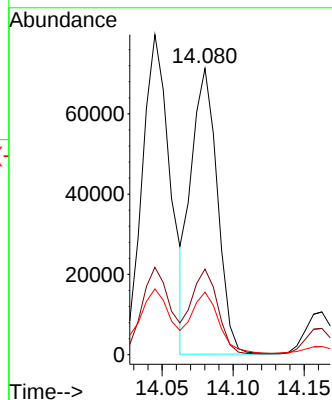
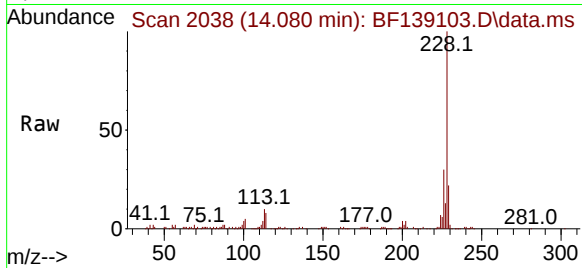




#83  
Chrysene  
Concen: 9.961 ng  
RT: 14.080 min Scan# 2039  
Delta R.T. -0.006 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

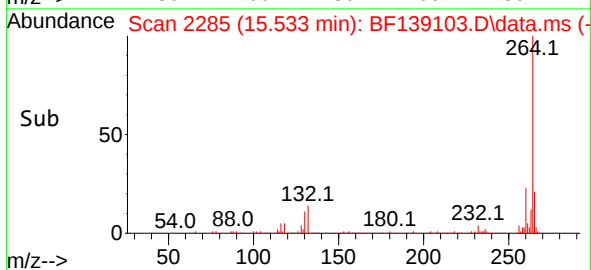
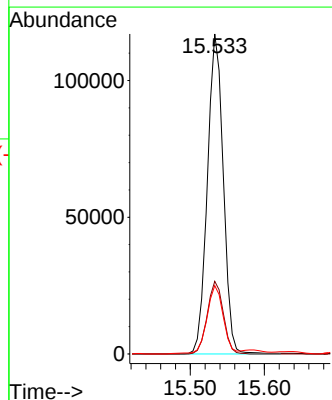
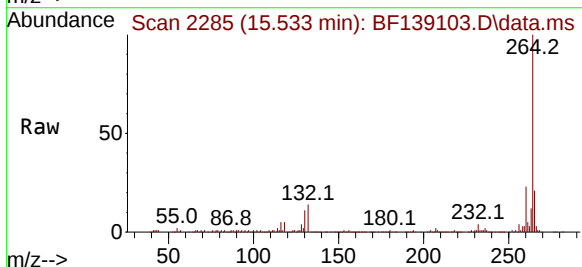
Instrument : BNA\_F  
ClientSampleId : 910-J-SD-0.5-1-081624

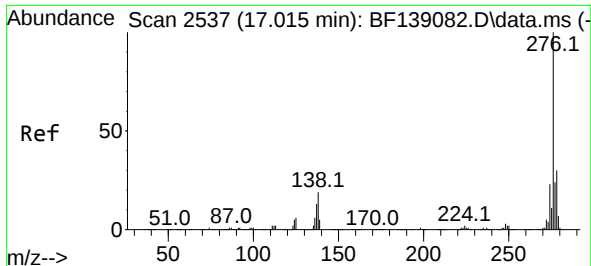
|             |                |
|-------------|----------------|
| Tgt Ion:228 | Resp: 91711    |
| Ion Ratio   | Lower Upper    |
| 228         | 100            |
| 226         | 29.9 24.3 36.5 |
| 229         | 21.9 15.8 23.8 |



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.533 min Scan# 2285  
Delta R.T. -0.000 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

|             |                |
|-------------|----------------|
| Tgt Ion:264 | Resp: 174421   |
| Ion Ratio   | Lower Upper    |
| 264         | 100            |
| 260         | 22.7 18.6 27.8 |
| 265         | 21.4 17.4 26.2 |

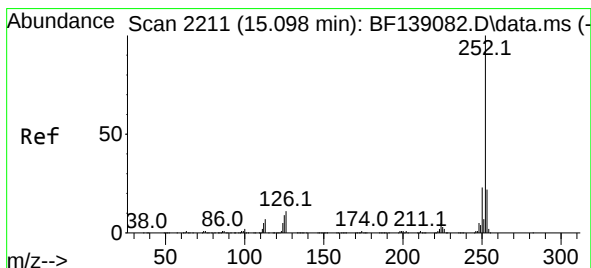
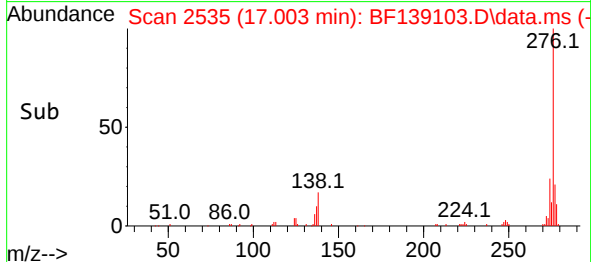
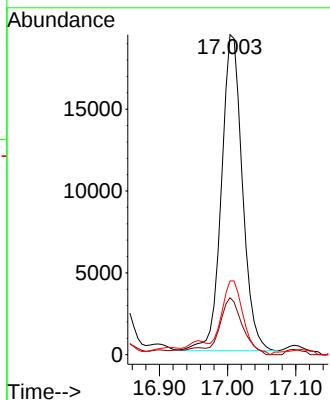
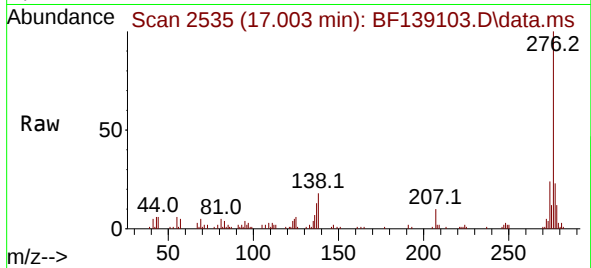




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.046 ng  
RT: 17.003 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

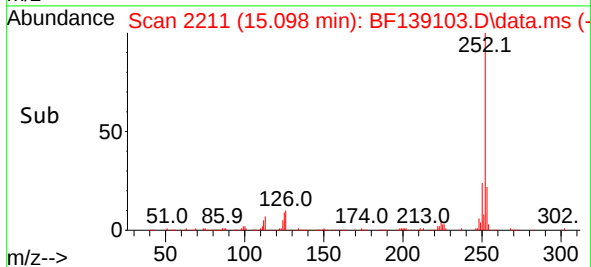
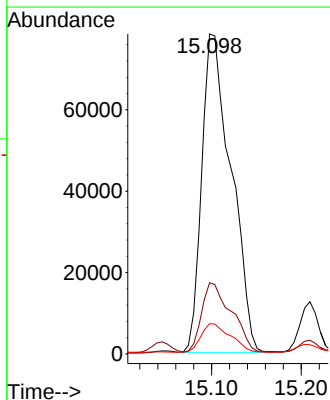
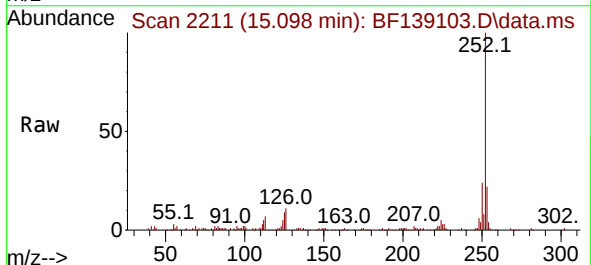
Instrument :  
BNA\_F  
ClientSampleId :  
910-J-SD-0.5-1-081624

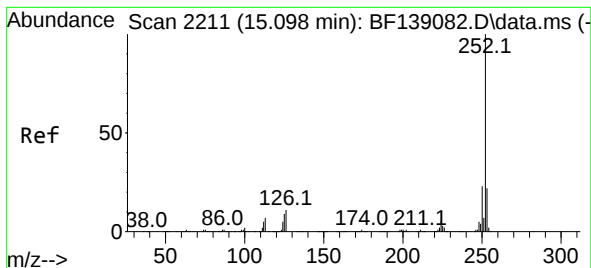
Tgt Ion:276 Resp: 41297  
Ion Ratio Lower Upper  
276 100  
138 19.0 17.3 25.9  
277 24.1 20.2 30.4



#88  
Benzo(b)fluoranthene  
Concen: 15.632 ng  
RT: 15.098 min Scan# 2211  
Delta R.T. -0.000 min  
Lab File: BF139103.D  
Acq: 21 Aug 2024 15:51

Tgt Ion:252 Resp: 177752  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.4 26.2  
125 9.5 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 18.768 ng

RT: 15.098 min Scan# 21

Delta R.T. -0.036 min

Lab File: BF139103.D

Acq: 21 Aug 2024 15:51

Instrument :

BNA\_F

ClientSampleId :

910-J-SD-0.5-1-081624

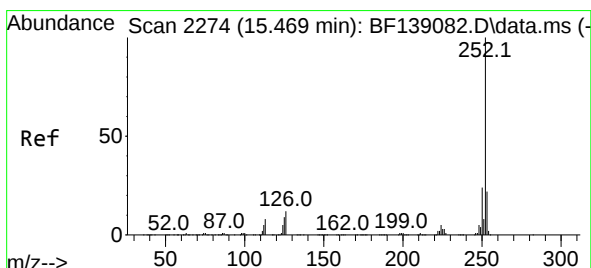
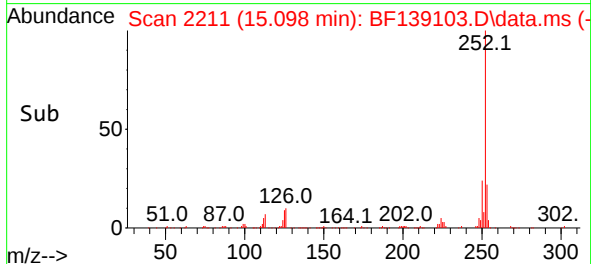
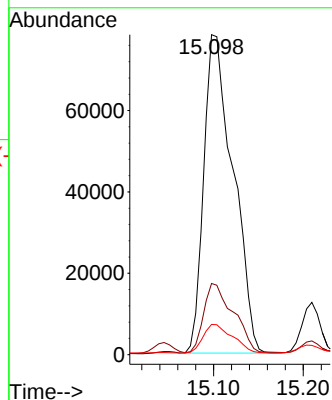
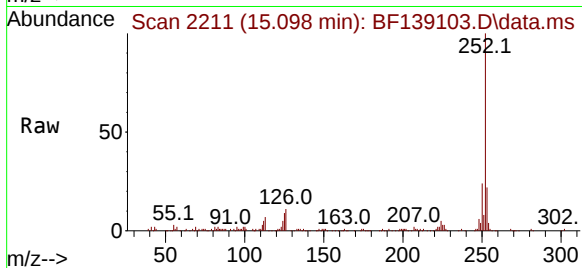
Tgt Ion:252 Resp: 177752

Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.2

125 9.5 7.0 10.6



#90

Benzo(a)pyrene

Concen: 10.387 ng

RT: 15.468 min Scan# 2274

Delta R.T. -0.000 min

Lab File: BF139103.D

Acq: 21 Aug 2024 15:51

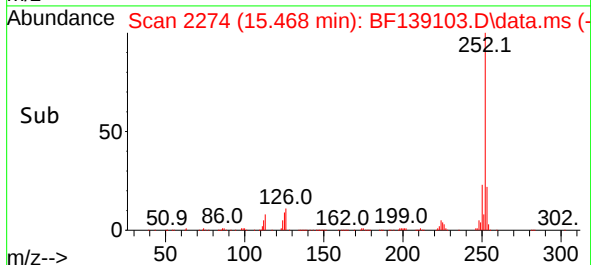
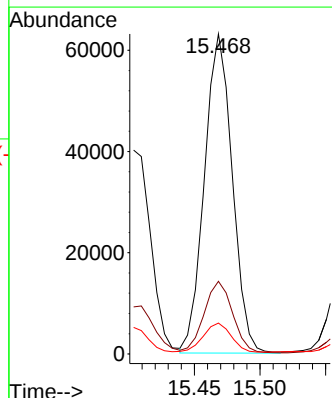
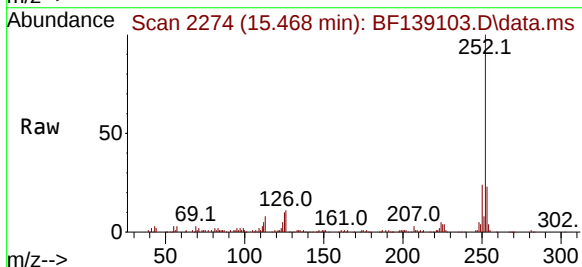
Tgt Ion:252 Resp: 93328

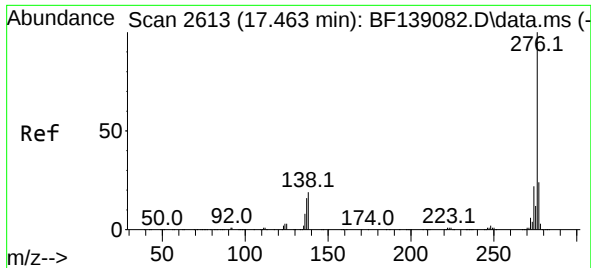
Ion Ratio Lower Upper

252 100

253 22.7 17.3 25.9

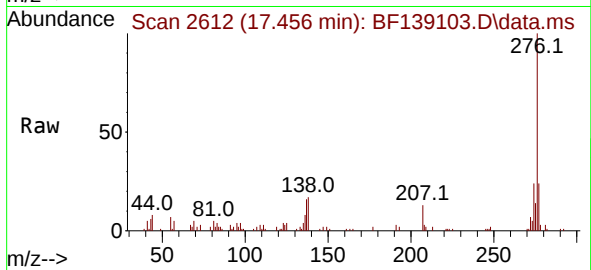
125 9.6 7.4 11.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 6.298 ng  
 RT: 17.456 min Scan# 20  
 Delta R.T. -0.007 min  
 Lab File: BF139103.D  
 Acq: 21 Aug 2024 15:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 910-J-SD-0.5-1-081624



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 35619 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 24.2  | 18.8  | 28.2  |
| 138      | 17.5  | 15.0  | 22.4  |

