

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF091624\  
 Data File : BF139388.D  
 Acq On : 16 Sep 2024 19:48  
 Operator : RC/JU  
 Sample : P3962-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-091124

Quant Time: Sep 17 01:38:54 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091324.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 14 02:58:23 2024  
 Response via : Initial Calibration

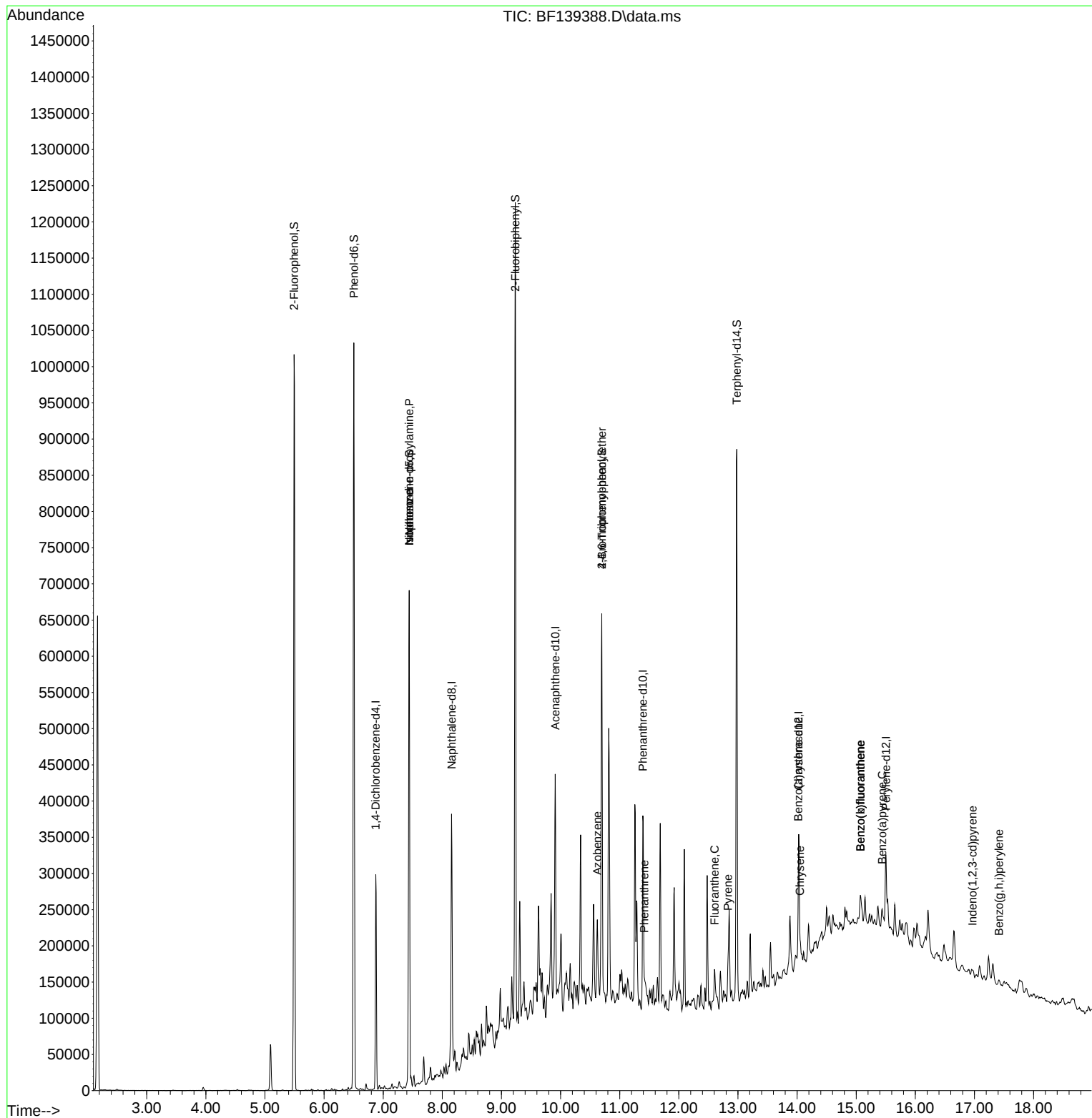
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.875  | 152  | 55379    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.157  | 136  | 185754   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.910  | 164  | 81288    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.392 | 188  | 133329   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.027 | 240  | 73618    | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 15.504 | 264  | 59581    | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.492  | 112  | 326644   | 96.222 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 426850   | 95.798 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.439  | 82   | 278440   | 70.469 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.698 | 330  | 73369    | 84.780 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.233  | 172  | 453374   | 78.224 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.980 | 244  | 354178   | 78.968 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.439  | 70   | 41878    | 15.860 | ng    | # 75     |
| 25) Isophorone                | 7.439  | 82   | 277125   | 44.347 | ng    | # 67     |
| 63) Azobenzene                | 10.622 | 77   | 26807    | 4.950  | ng    | # 5      |
| 67) 4-Bromophenyl-phenylether | 10.698 | 248  | 5480     | 4.148  | ng    | # 1      |
| 71) Phenanthrene              | 11.416 | 178  | 14062    | 2.186  | ng    | 96       |
| 75) Fluoranthene              | 12.604 | 202  | 29409    | 4.281  | ng    | 96       |
| 78) Pyrene                    | 12.833 | 202  | 33229    | 5.257  | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.021 | 228  | 14604    | 2.995  | ng    | # 76     |
| 83) Chrysene                  | 14.051 | 228  | 16095    | 3.588  | ng    | # 79     |
| 87) Indeno(1,2,3-cd)pyrene    | 16.968 | 276  | 7271     | 2.052  | ng    | # 95     |
| 88) Benzo(b)fluoranthene      | 15.074 | 252  | 21495    | 5.850  | ng    | # 72     |
| 89) Benzo(k)fluoranthene      | 15.074 | 252  | 21495    | 6.344  | ng    | # 71     |
| 90) Benzo(a)pyrene            | 15.439 | 252  | 12093    | 3.968  | ng    | # 71     |
| 92) Benzo(g,h,i)perylene      | 17.415 | 276  | 9193     | 3.171  | ng    | # 81     |
| -----                         |        |      |          |        |       |          |

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

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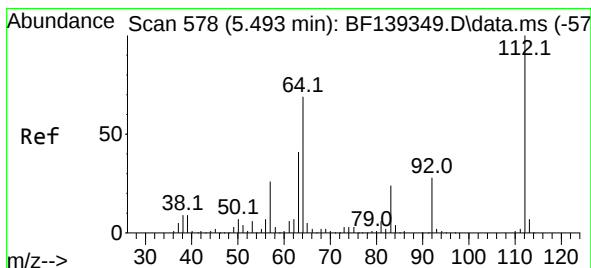
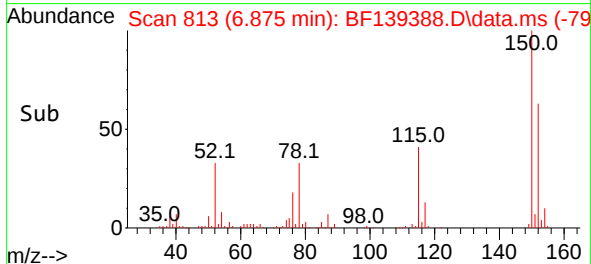
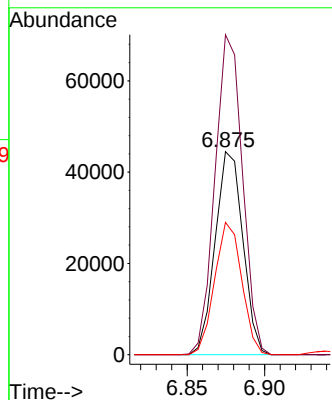
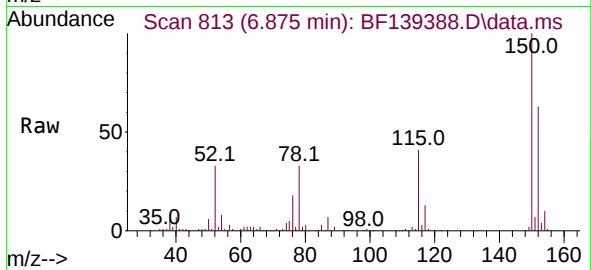




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

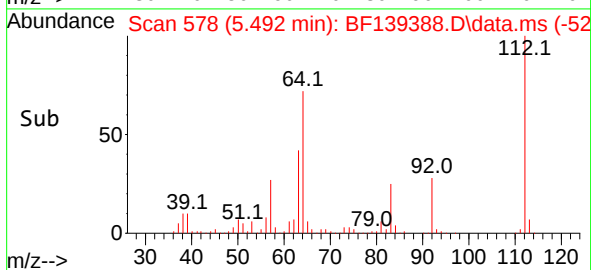
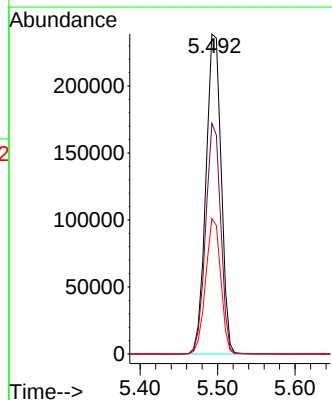
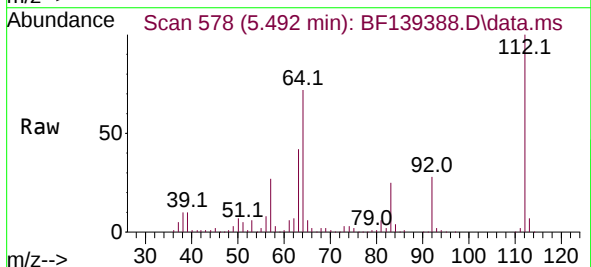
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-091124

Tgt Ion:152 Resp: 55379  
Ion Ratio Lower Upper  
152 100  
150 157.6 124.1 186.1  
115 65.2 48.1 72.1



#5  
2-Fluorophenol  
Concen: 96.222 ng  
RT: 5.492 min Scan# 578  
Delta R.T. -0.001 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

Tgt Ion:112 Resp: 326644  
Ion Ratio Lower Upper  
112 100  
64 72.0 54.8 82.2  
63 42.3 33.0 49.4

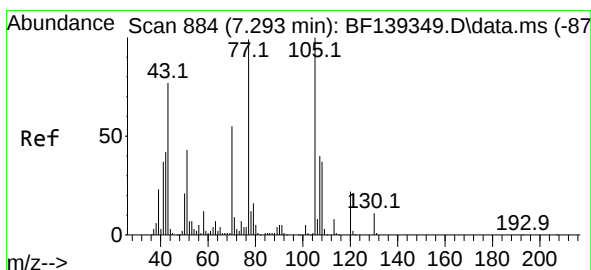
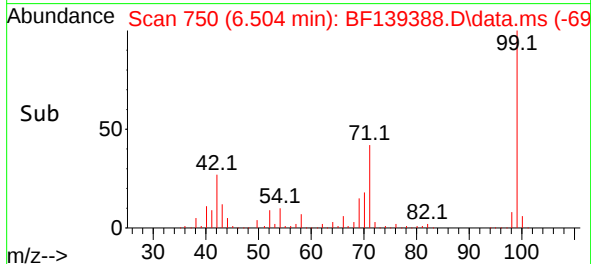
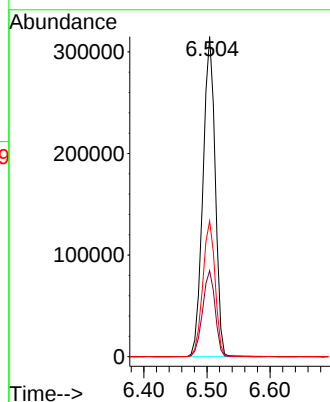
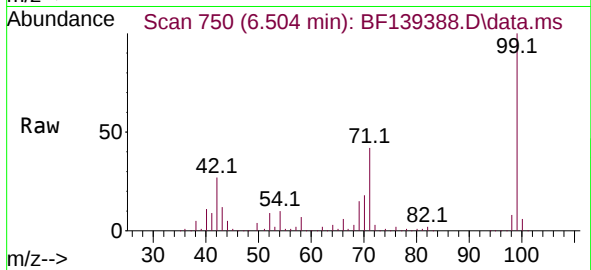




#7  
Phenol-d6  
Concen: 95.798 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

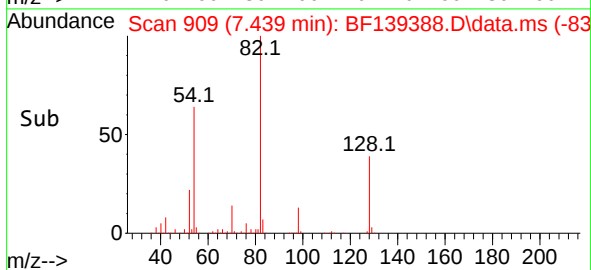
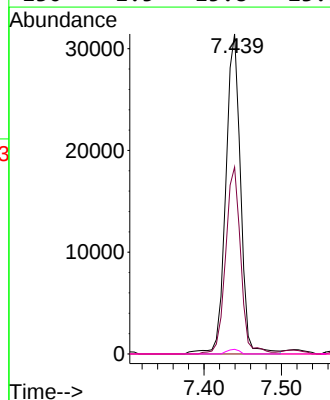
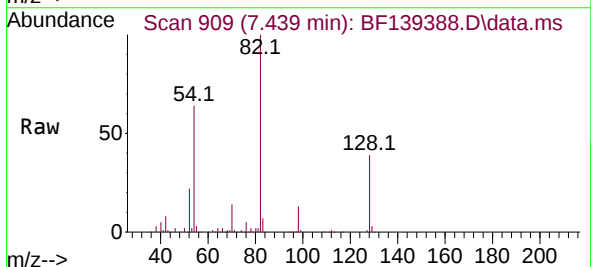
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-091124

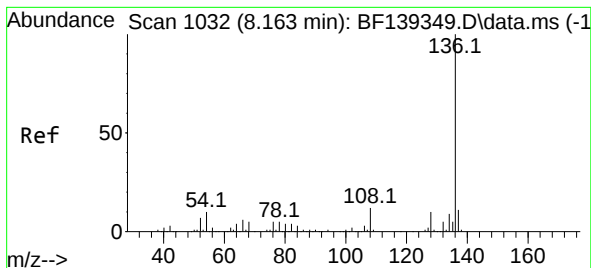
Tgt Ion: 99 Resp: 426850  
Ion Ratio Lower Upper  
99 100  
42 26.8 21.9 32.9  
71 42.4 34.6 52.0



#19  
n-Nitroso-di-n-propylamine  
Concen: 15.860 ng  
RT: 7.439 min Scan# 909  
Delta R.T. 0.147 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

Tgt Ion: 70 Resp: 41878  
Ion Ratio Lower Upper  
70 100  
42 58.4 61.2 91.8#  
101 0.0 7.5 11.3#  
130 1.5 15.8 23.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

Instrument :

BNA\_F

ClientSampleId :

TR-04-091124

Tgt Ion:136 Resp: 185754

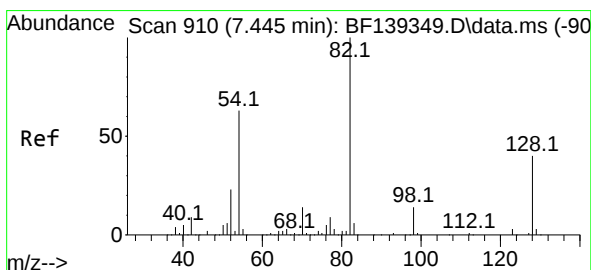
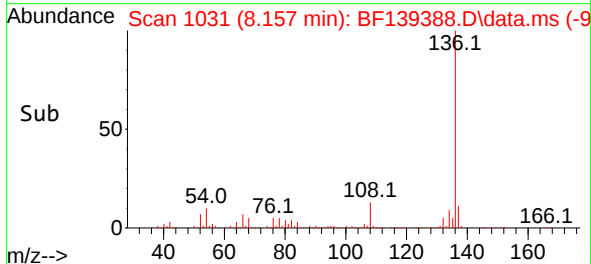
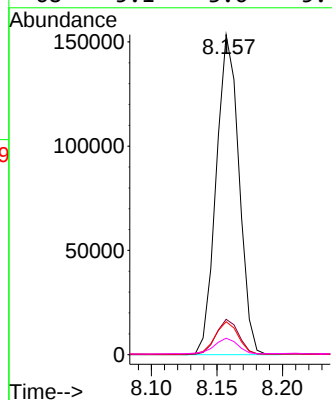
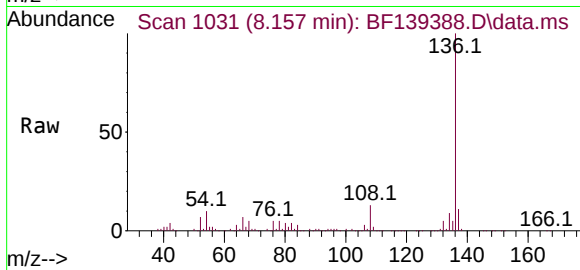
Ion Ratio Lower Upper

136 100

137 11.1 8.6 12.8

54 10.3 7.8 11.8

68 5.1 3.6 5.4



#23

Nitrobenzene-d5

Concen: 70.469 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.006 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

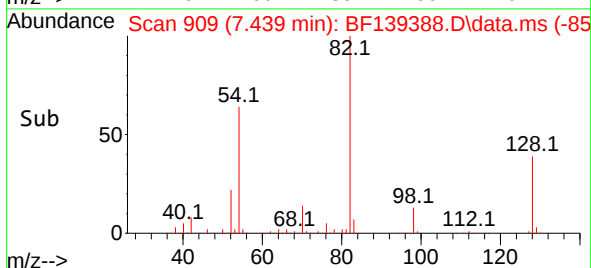
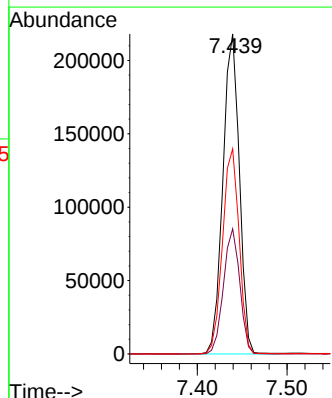
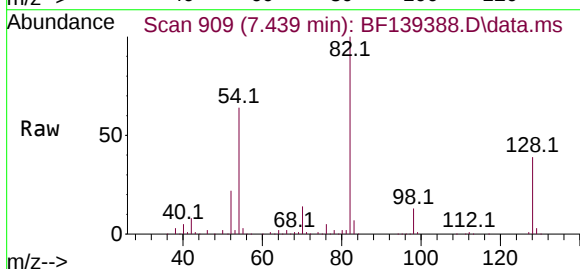
Tgt Ion: 82 Resp: 278440

Ion Ratio Lower Upper

82 100

128 39.1 31.8 47.6

54 64.1 50.6 75.8

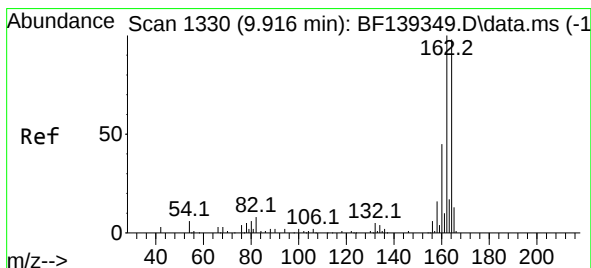
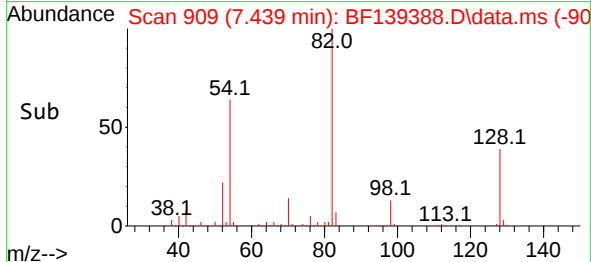
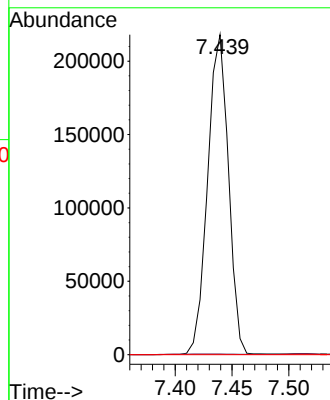
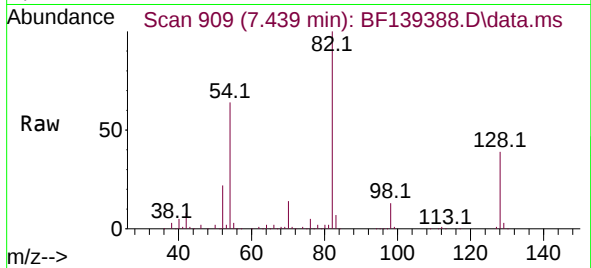




#25  
Isophorone  
Concen: 44.347 ng  
RT: 7.439 min Scan# 90  
Delta R.T. -0.259 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

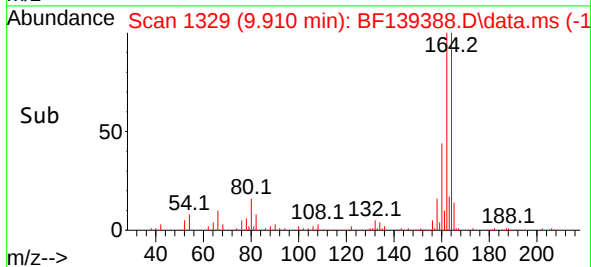
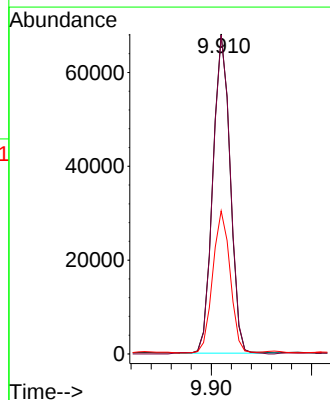
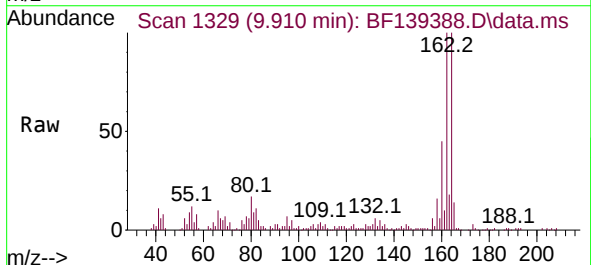
Instrument :  
BNA\_F  
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Tgt Ion: 82 Resp: 277125  
Ion Ratio Lower Upper  
82 100  
95 0.2 6.7 10.1#  
138 0.0 13.3 19.9#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 1329  
Delta R.T. -0.006 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

Tgt Ion:164 Resp: 81288  
Ion Ratio Lower Upper  
164 100  
162 99.6 81.3 121.9  
160 44.7 36.4 54.6





#42

2,4,6-Tribromophenol

Concen: 84.780 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.000 min

Lab File: BF139388.D

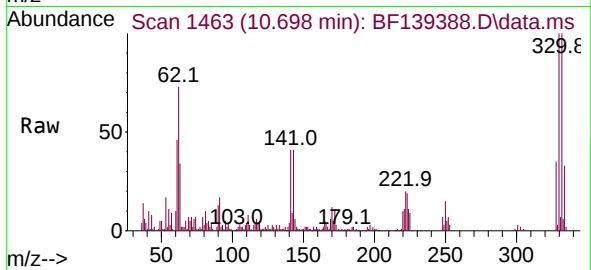
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Instrument :

BNA\_F

ClientSampleId :

TR-04-091124



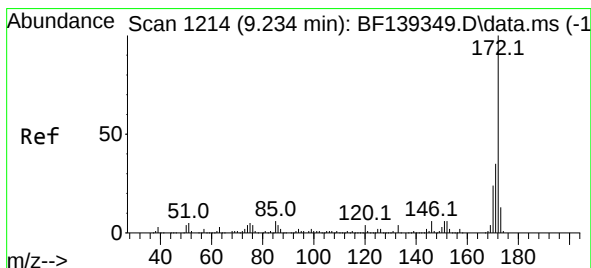
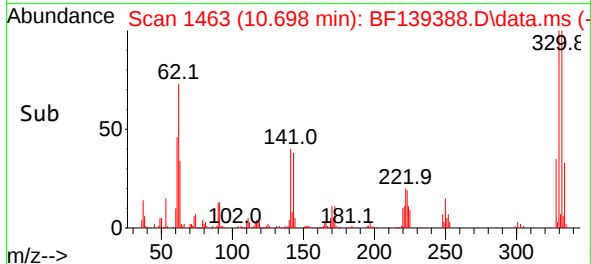
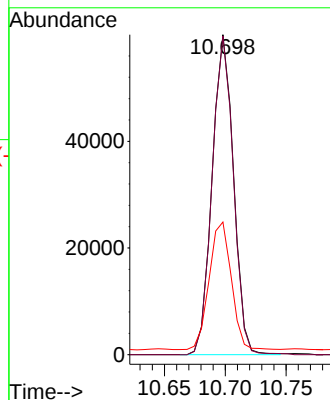
Tgt Ion:330 Resp: 73369

Ion Ratio Lower Upper

330 100

332 99.0 75.2 112.8

141 41.2 31.2 46.8



#45

2-Fluorobiphenyl

Concen: 78.224 ng

RT: 9.233 min Scan# 1214

Delta R.T. -0.000 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

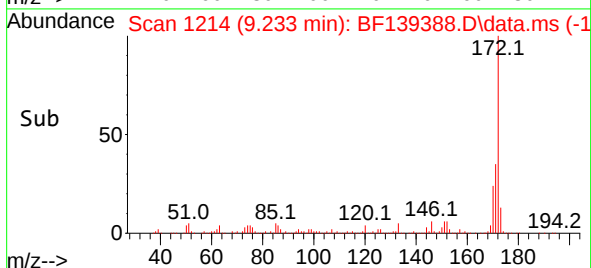
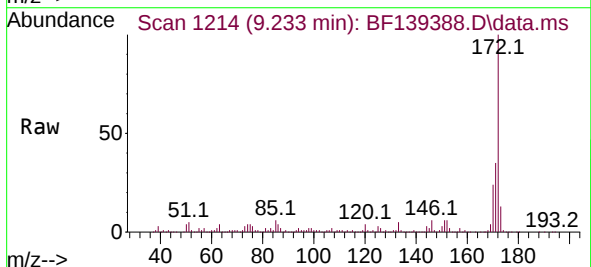
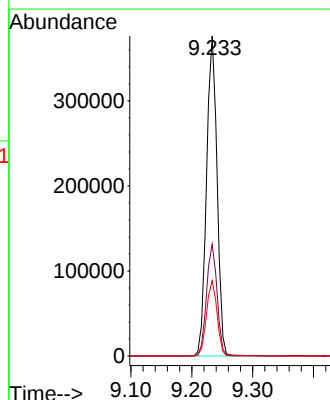
Tgt Ion:172 Resp: 453374

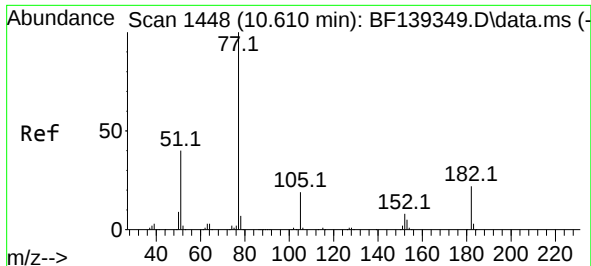
Ion Ratio Lower Upper

172 100

171 35.0 28.3 42.5

170 23.5 19.0 28.6

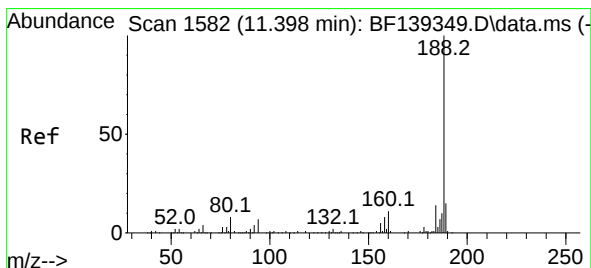
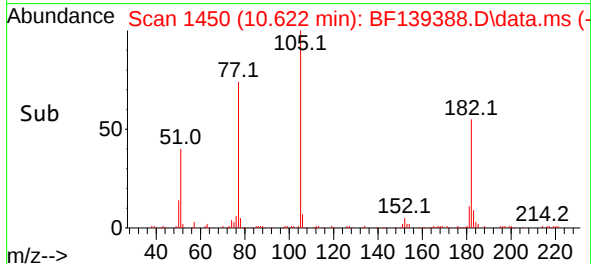
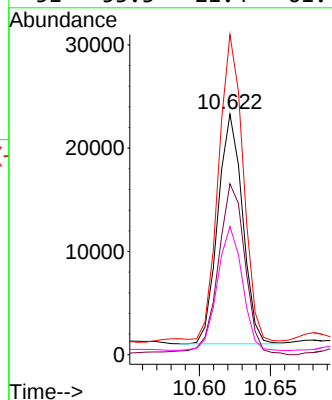
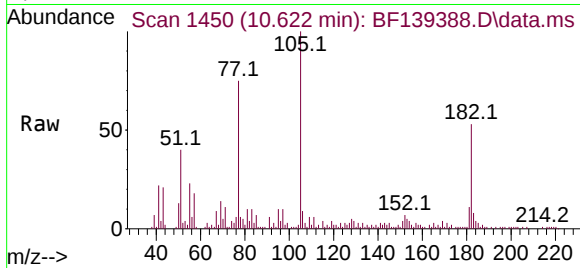




#63  
Azobenzene  
Concen: 4.950 ng  
RT: 10.622 min Scan# 1448  
Delta R.T. 0.012 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

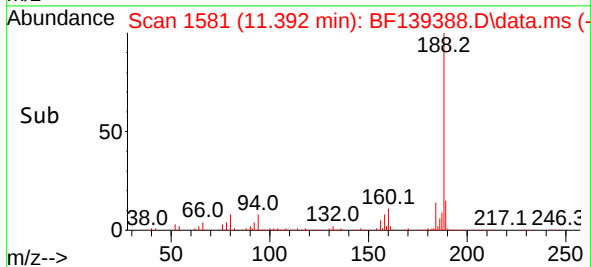
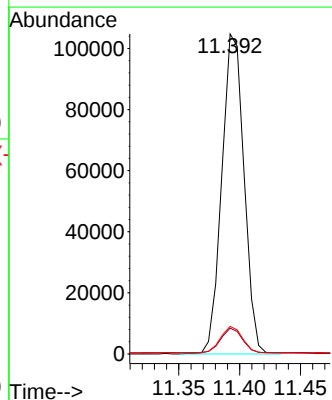
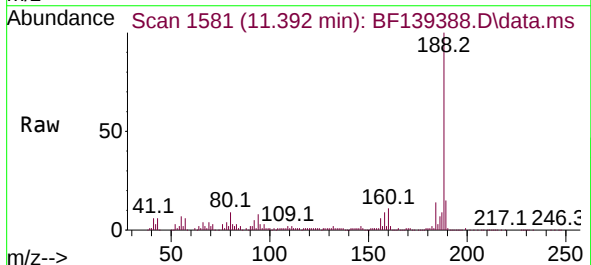
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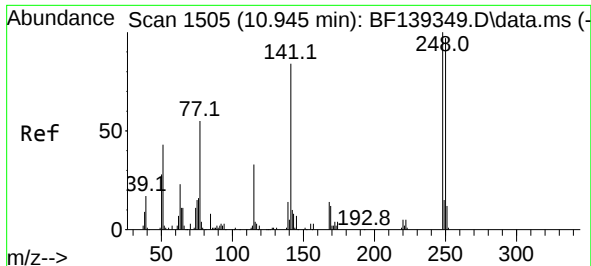
|             |             |
|-------------|-------------|
| Tgt Ion: 77 | Resp: 26807 |
| Ion Ratio   | Lower Upper |
| 77 100      |             |
| 182 71.0    | 1.8 41.8#   |
| 105 133.1   | 0.0 38.6#   |
| 51 53.3     | 21.4 61.4   |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.392 min Scan# 1581  
Delta R.T. -0.006 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

|              |              |
|--------------|--------------|
| Tgt Ion: 188 | Resp: 133329 |
| Ion Ratio    | Lower Upper  |
| 188 100      |              |
| 94 8.0       | 5.5 8.3      |
| 80 8.6       | 6.6 9.8      |





#67

4-Bromophenyl-phenylether

Concen: 4.148 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.247 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

Instrument :

BNA\_F

ClientSampleId :

TR-04-091124

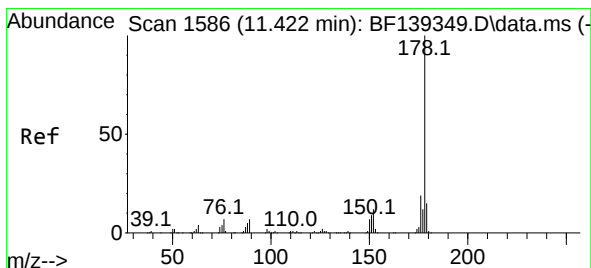
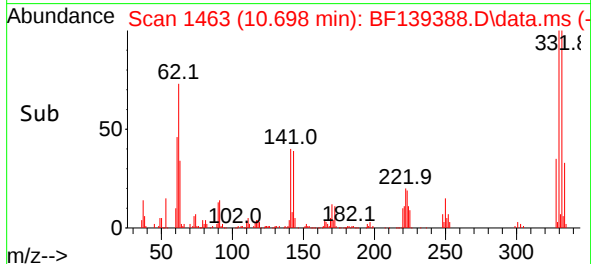
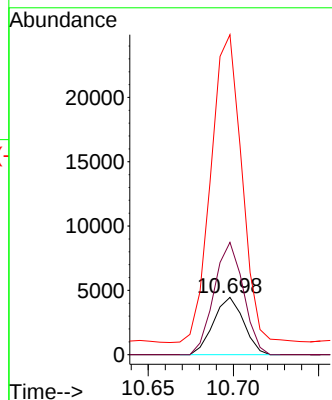
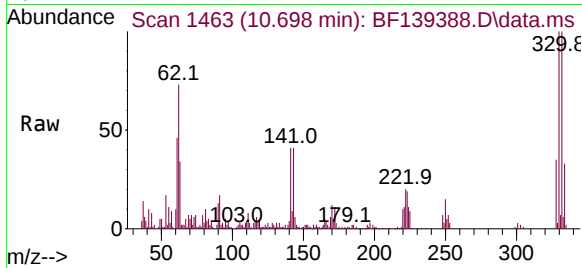
Tgt Ion:248 Resp: 5480

Ion Ratio Lower Upper

248 100

250 196.0 77.6 116.4#

141 558.7 66.9 100.3#



#71

Phenanthrene

Concen: 2.186 ng

RT: 11.416 min Scan# 1585

Delta R.T. -0.006 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

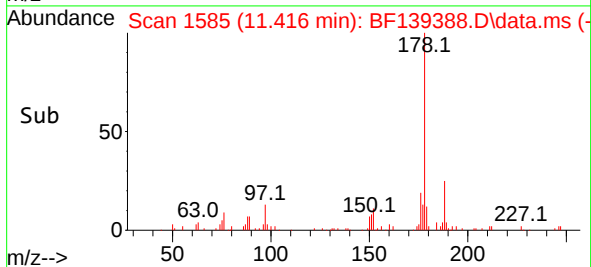
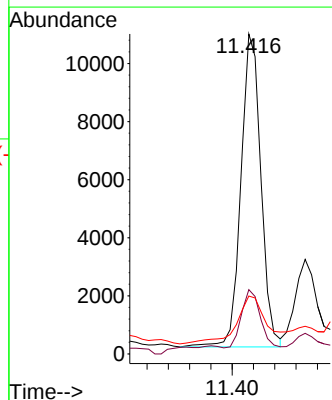
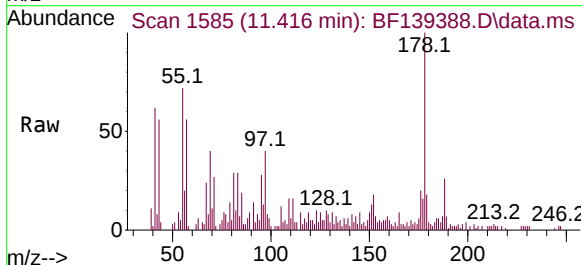
Tgt Ion:178 Resp: 14062

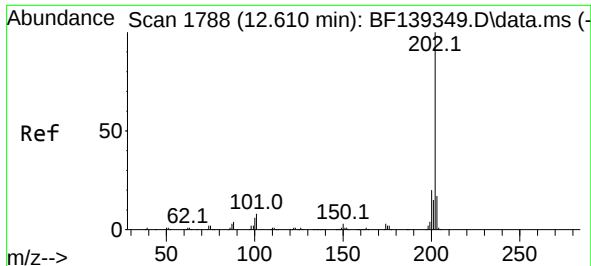
Ion Ratio Lower Upper

178 100

176 20.1 15.2 22.8

179 18.1 12.2 18.4

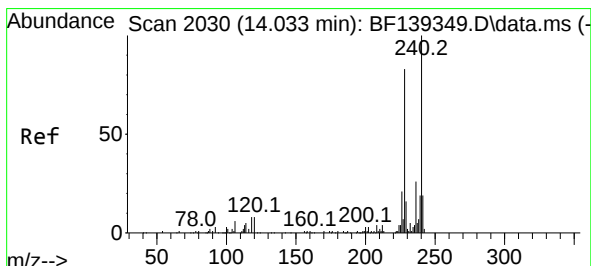
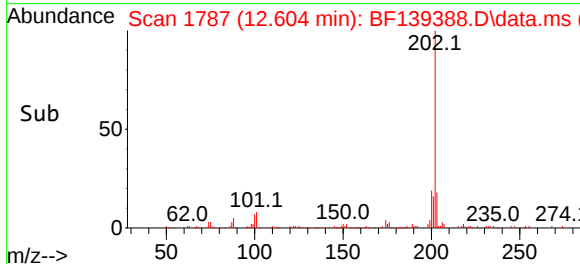
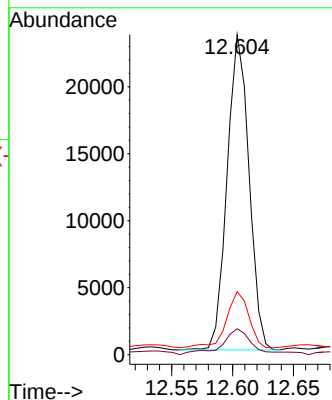
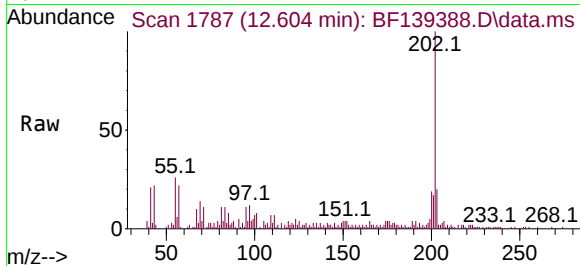




#75  
Fluoranthene  
Concen: 4.281 ng  
RT: 12.604 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

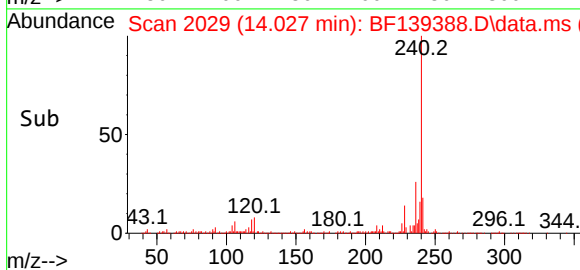
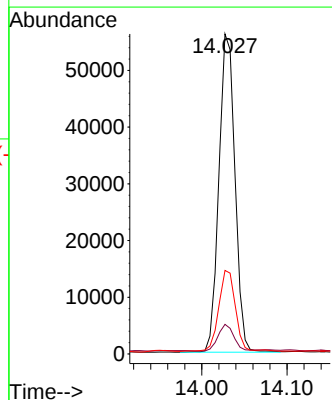
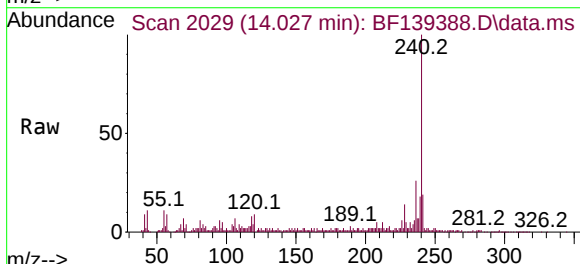
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-091124

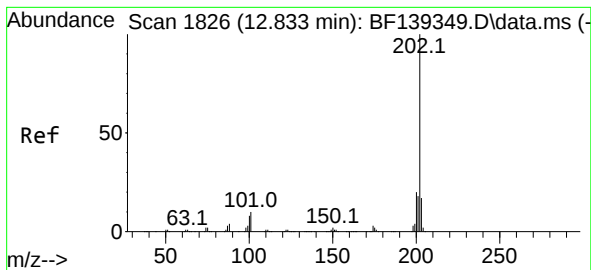
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 29409 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.1   | 0.0   | 27.7  |
| 203       | 19.7  | 0.0   | 37.4  |



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.027 min Scan# 2029  
Delta R.T. -0.006 min  
Lab File: BF139388.D  
Acq: 16 Sep 2024 19:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 73618 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 9.2   | 6.2   | 9.2#  |
| 236       | 26.1  | 20.9  | 31.3  |





#78

Pyrene

Concen: 5.257 ng

RT: 12.833 min Scan# 1826

Delta R.T. -0.000 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

Instrument :

BNA\_F

ClientSampleId :

TR-04-091124

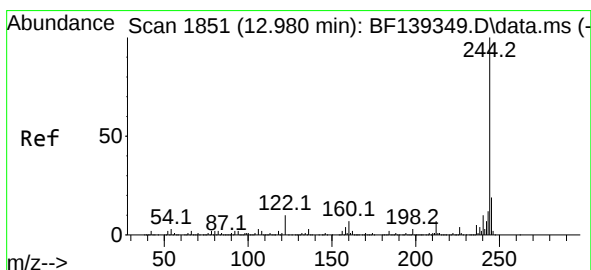
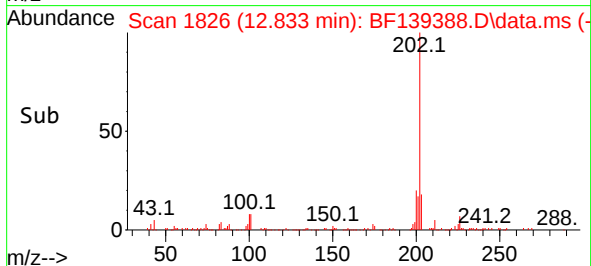
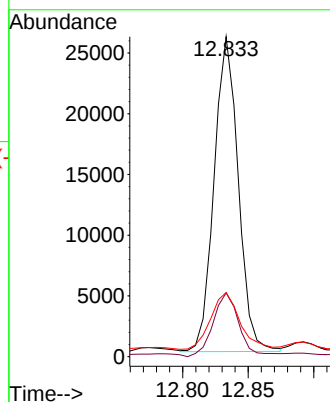
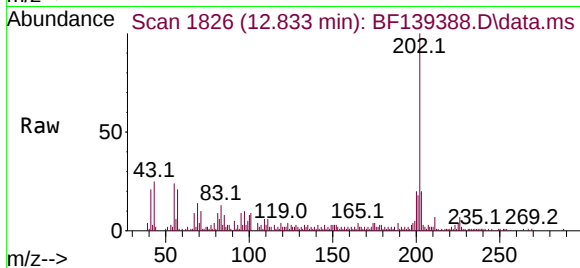
Tgt Ion:202 Resp: 33229

Ion Ratio Lower Upper

202 100

200 19.9 16.2 24.2

203 20.1 13.9 20.9



#79

Terphenyl-d14

Concen: 78.968 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.000 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

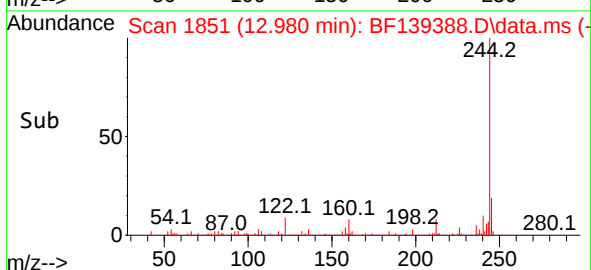
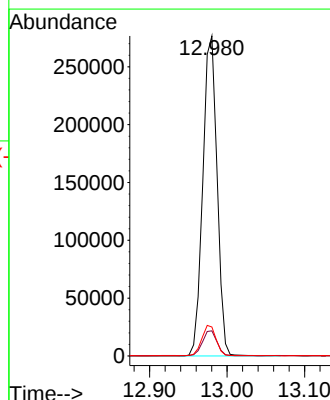
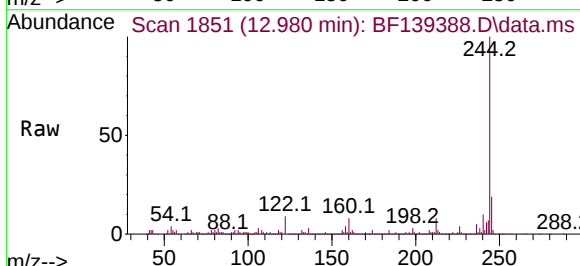
Tgt Ion:244 Resp: 354178

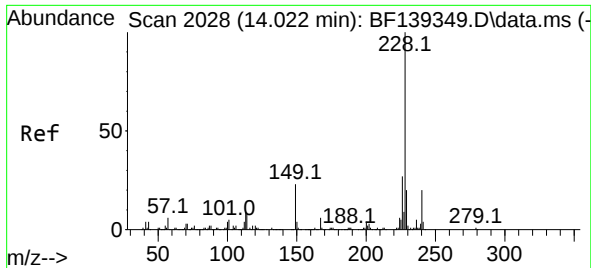
Ion Ratio Lower Upper

244 100

212 7.9 6.0 9.0

122 9.1 7.6 11.4





#81

Benzo(a)anthracene

Concen: 2.995 ng

RT: 14.021 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

Instrument :

BNA\_F

ClientSampleId :

TR-04-091124

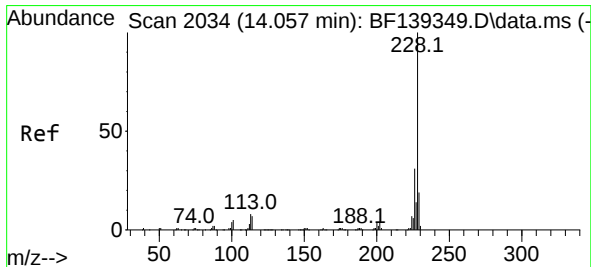
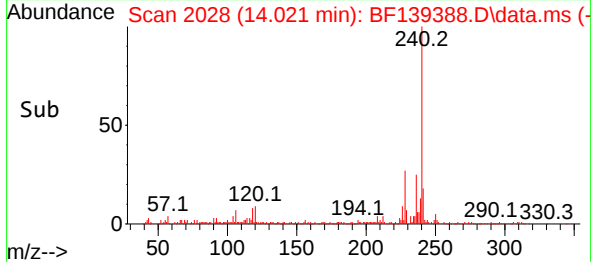
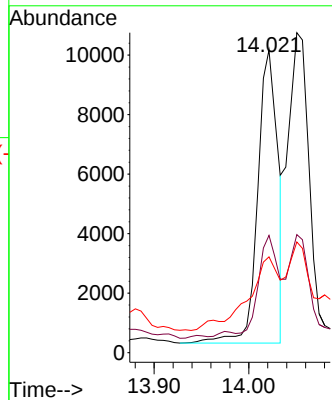
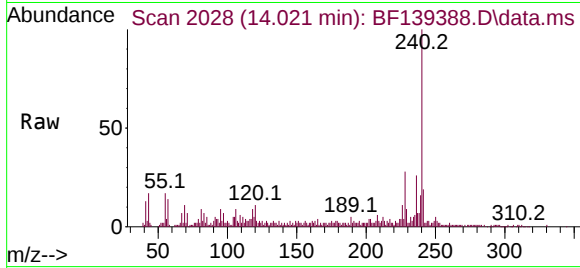
Tgt Ion:228 Resp: 14604

Ion Ratio Lower Upper

228 100

226 38.8 21.6 32.4#

229 31.7 15.7 23.5#



#83

Chrysene

Concen: 3.588 ng

RT: 14.051 min Scan# 2033

Delta R.T. -0.006 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

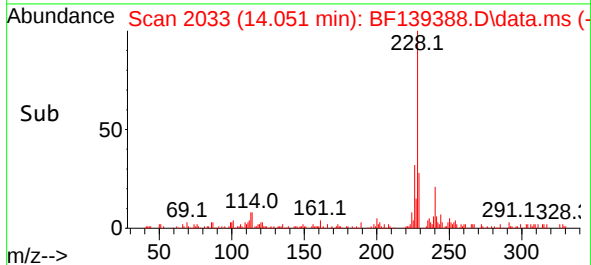
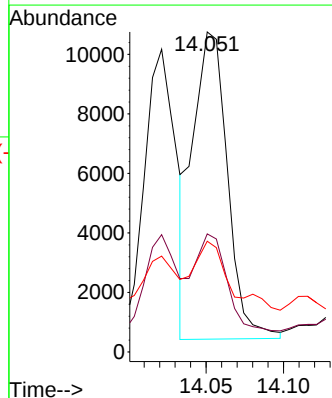
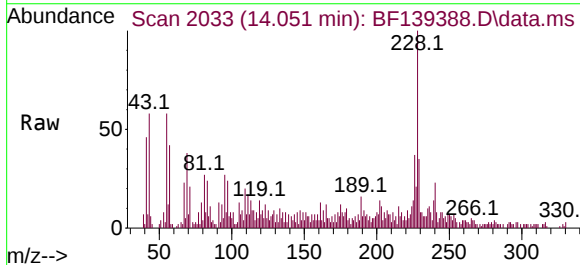
Tgt Ion:228 Resp: 16095

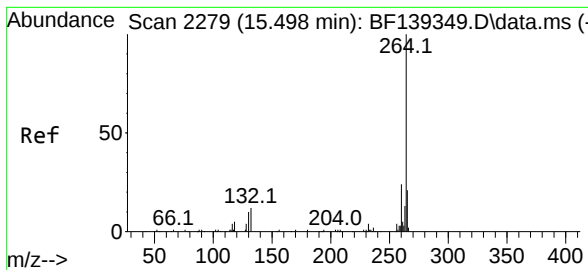
Ion Ratio Lower Upper

228 100

226 36.9 24.1 36.1#

229 34.6 15.4 23.0#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

Instrument :

BNA\_F

ClientSampleId :

TR-04-091124

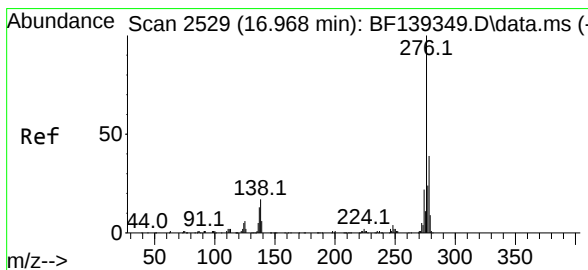
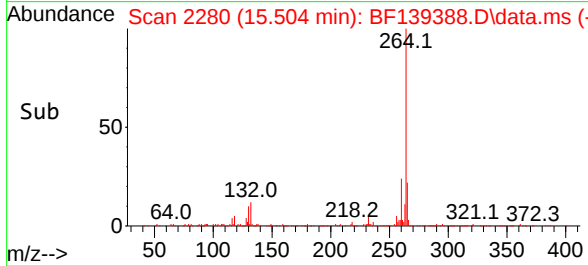
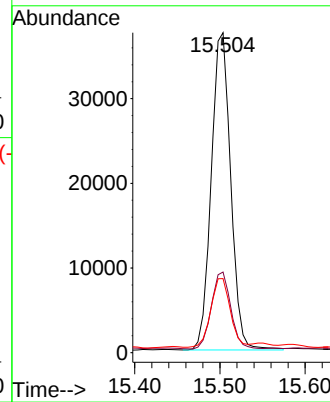
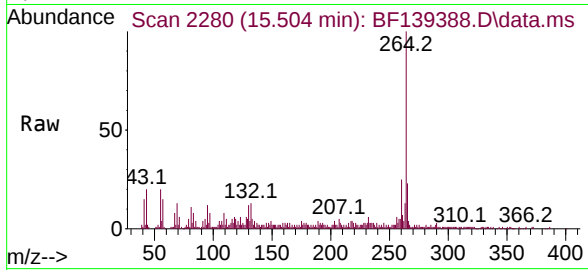
Tgt Ion:264 Resp: 59581

Ion Ratio Lower Upper

264 100

260 25.2 19.5 29.3

265 23.2 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.052 ng

RT: 16.968 min Scan# 2529

Delta R.T. -0.000 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

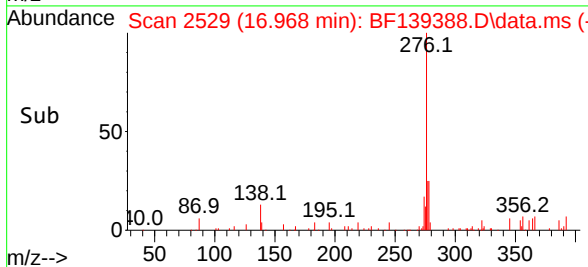
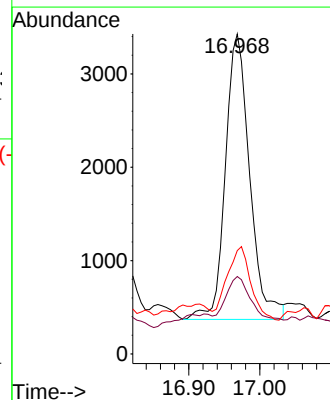
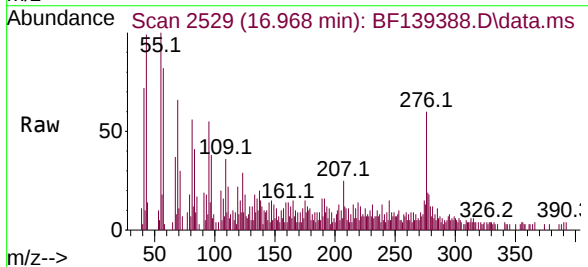
Tgt Ion:276 Resp: 7271

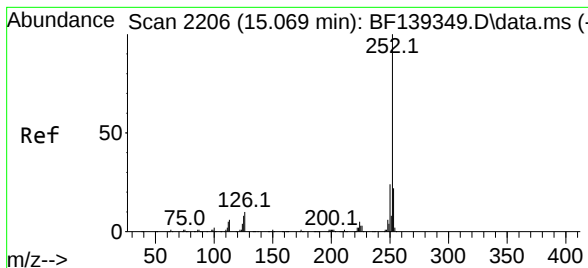
Ion Ratio Lower Upper

276 100

138 14.6 15.4 23.2#

277 25.2 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 5.850 ng

RT: 15.074 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

Instrument :

BNA\_F

ClientSampleId :

TR-04-091124

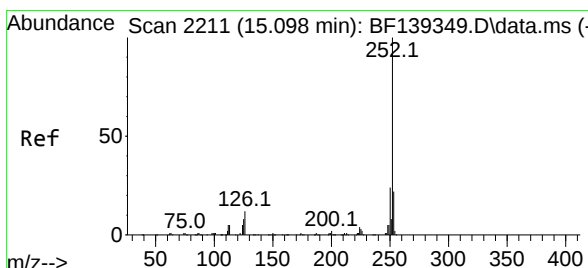
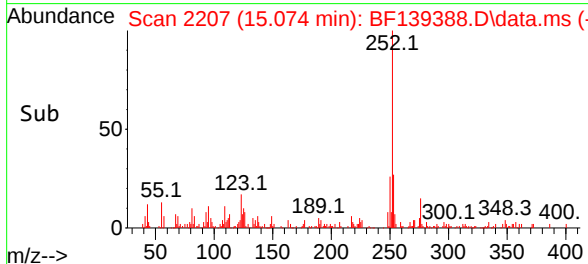
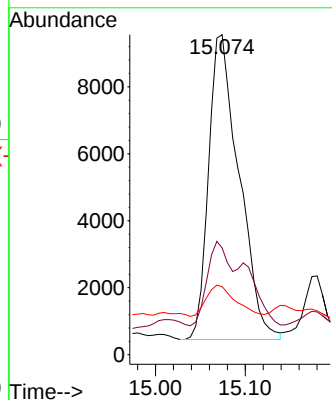
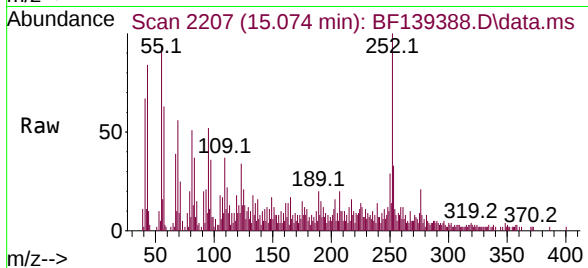
Tgt Ion:252 Resp: 21495

Ion Ratio Lower Upper

252 100

253 33.3 17.6 26.4#

125 21.3 6.2 9.2#



#89

Benzo(k)fluoranthene

Concen: 6.344 ng

RT: 15.074 min Scan# 2207

Delta R.T. -0.024 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

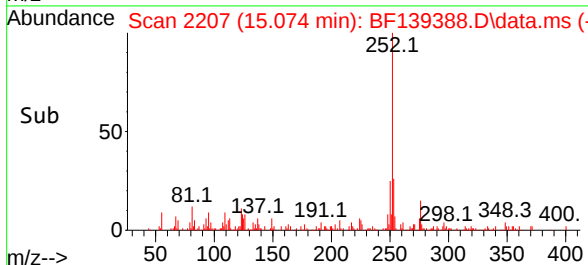
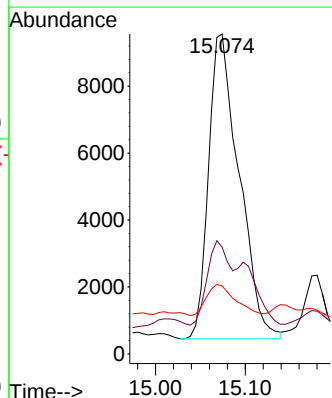
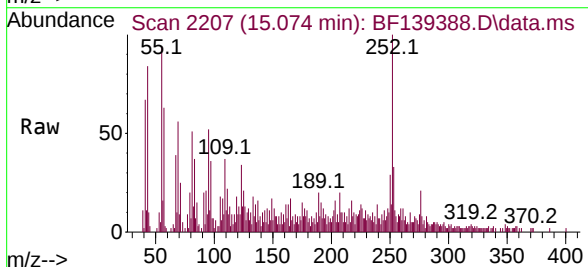
Tgt Ion:252 Resp: 21495

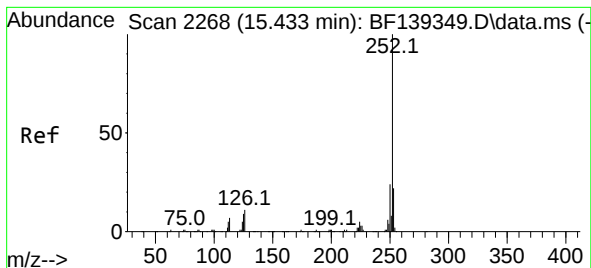
Ion Ratio Lower Upper

252 100

253 33.3 17.3 25.9#

125 21.3 5.9 8.9#





#90

Benzo(a)pyrene

Concen: 3.968 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

Instrument :

BNA\_F

ClientSampleId :

TR-04-091124

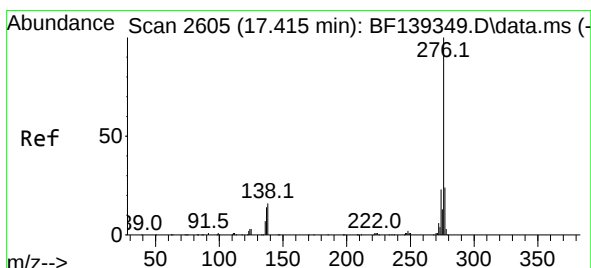
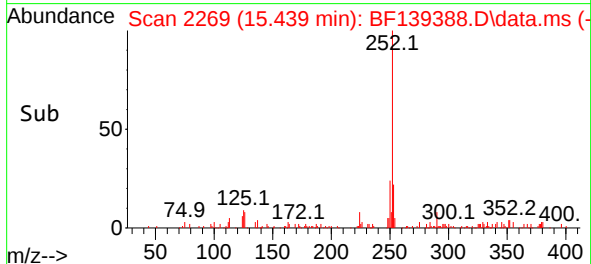
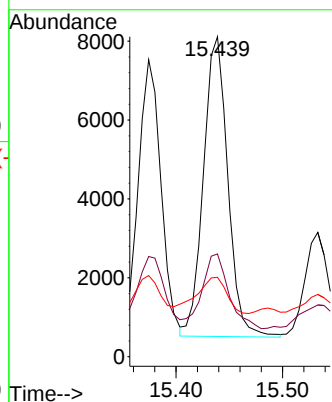
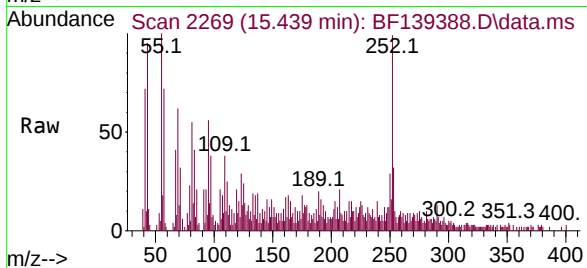
Tgt Ion:252 Resp: 12093

Ion Ratio Lower Upper

252 100

253 32.1 17.3 25.9#

125 24.8 6.8 10.2#



#92

Benzo(g,h,i)perylene

Concen: 3.171 ng

RT: 17.415 min Scan# 2605

Delta R.T. -0.000 min

Lab File: BF139388.D

Acq: 16 Sep 2024 19:48

Tgt Ion:276 Resp: 9193

Ion Ratio Lower Upper

276 100

277 33.7 18.9 28.3#

138 23.4 13.0 19.6#

