

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082224\  
 Data File : BF139121.D  
 Acq On : 22 Aug 2024 14:20  
 Operator : RC/JU  
 Sample : P3641-06  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-909-K1-0.5-1.0-081524

Quant Time: Aug 22 15:01:08 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

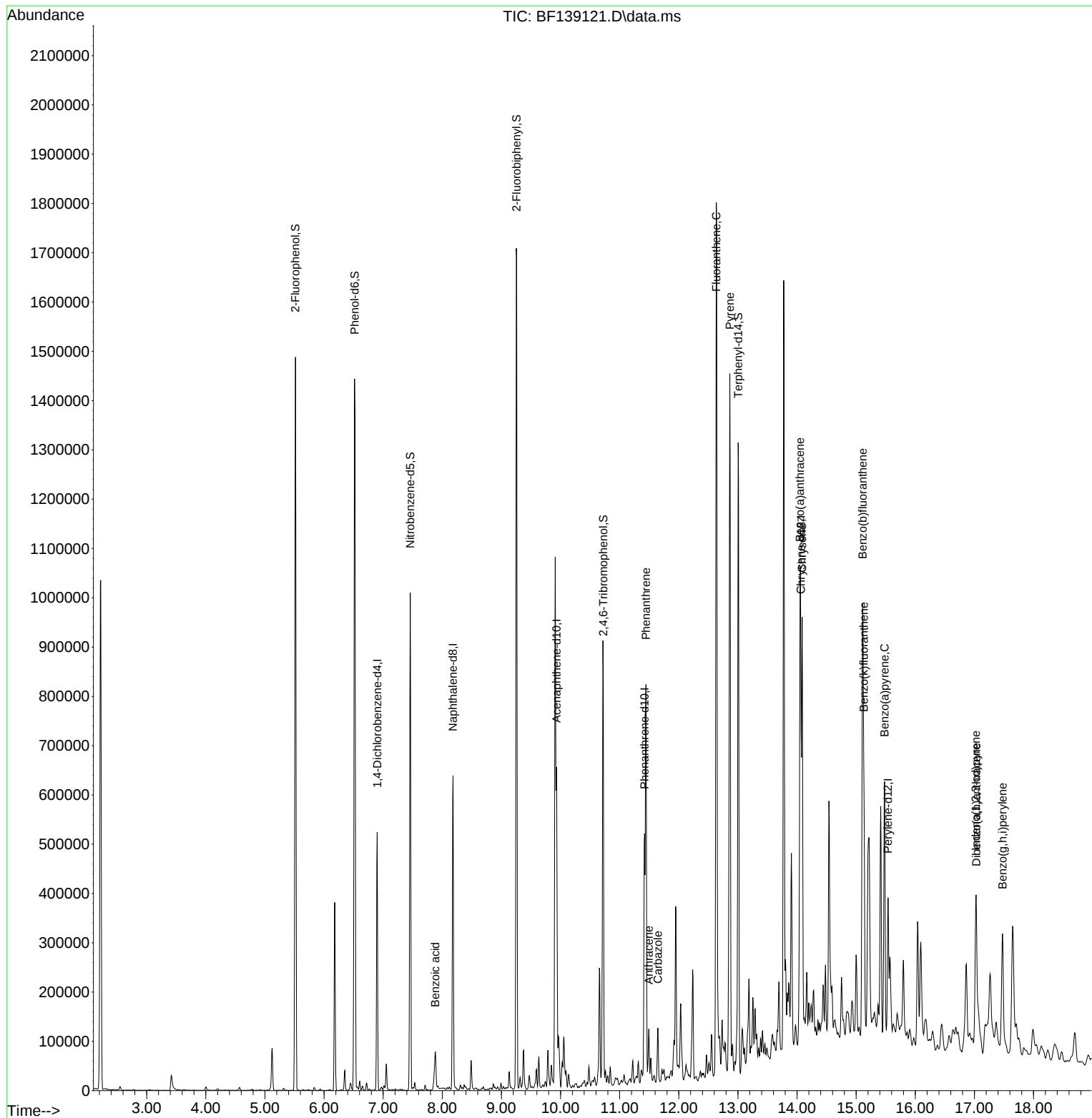
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.898  | 152  | 99701    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.181  | 136  | 365151   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.934  | 164  | 181246   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.422 | 188  | 252789   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.063 | 240  | 188524   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.539 | 264  | 156127   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.516  | 112  | 501803   | 77.435 | ng    | 0.00     |
| 7) Phenol-d6                | 6.516  | 99   | 655067   | 78.232 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.457  | 82   | 434910   | 69.402 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.722 | 330  | 128077   | 78.058 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.257  | 172  | 724394   | 63.413 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.004 | 244  | 596388   | 52.491 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 32) Benzoic acid            | 7.881  | 122  | 26364    | 14.539 | ng    | 98       |
| 71) Phenanthrene            | 11.445 | 178  | 412349   | 32.093 | ng    | 99       |
| 72) Anthracene              | 11.492 | 178  | 59290    | 4.718  | ng    | 99       |
| 73) Carbazole               | 11.645 | 167  | 53718    | 4.578  | ng    | 100      |
| 75) Fluoranthene            | 12.633 | 202  | 1002756  | 73.120 | ng    | 100      |
| 78) Pyrene                  | 12.863 | 202  | 799156   | 50.796 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.051 | 228  | 400211   | 32.294 | ng    | 96       |
| 83) Chrysene                | 14.086 | 228  | 436097   | 38.823 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.027 | 276  | 232664   | 25.463 | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.110 | 252  | 612508m  | 60.177 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.127 | 252  | 175038m  | 20.648 | ng    |          |
| 90) Benzo(a)pyrene          | 15.480 | 252  | 307057   | 38.178 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 17.033 | 278  | 48749m   | 6.499  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.474 | 276  | 219837   | 26.954 | ng    | 98       |
| -----                       |        |      |          |        |       |          |

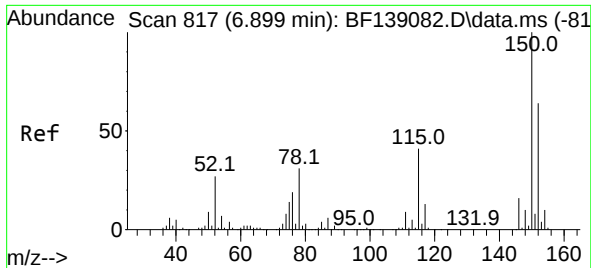
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082224\  
Data File : BF139121.D  
Acq On : 22 Aug 2024 14:20  
Operator : RC/JU  
Sample : P3641-06  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0.5-1.0-081524

Quant Time: Aug 22 15:01:08 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

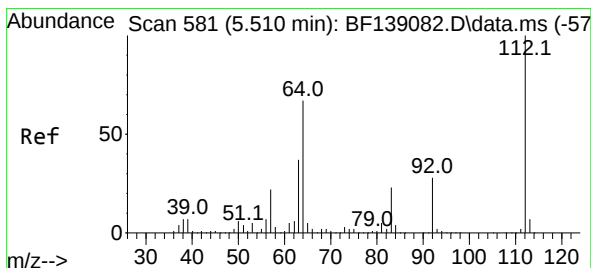
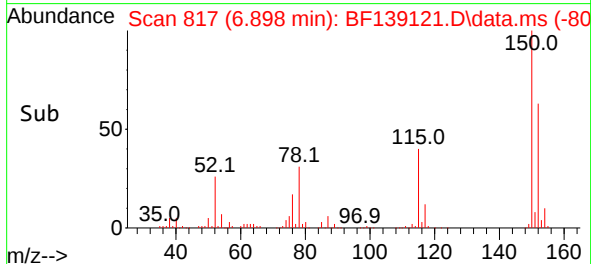
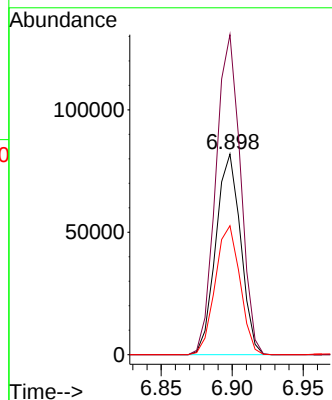
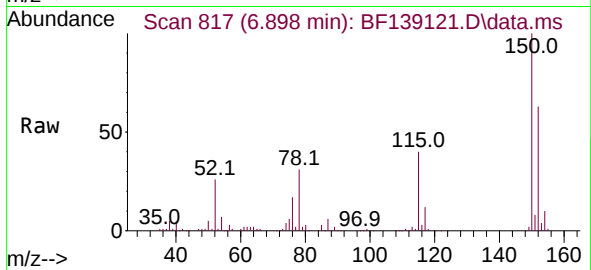




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.898 min Scan# 817  
Delta R.T. -0.001 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

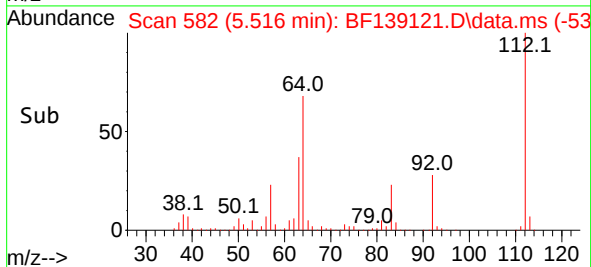
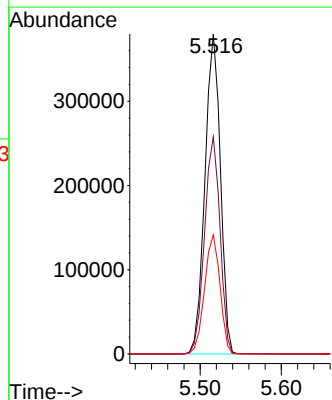
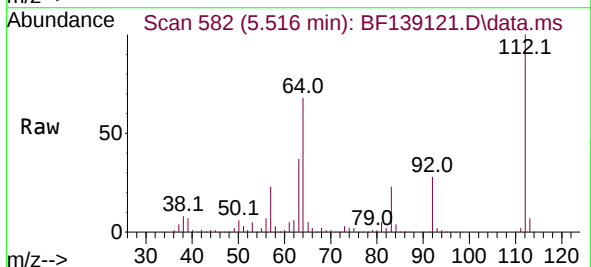
Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0.5-1.0-081524

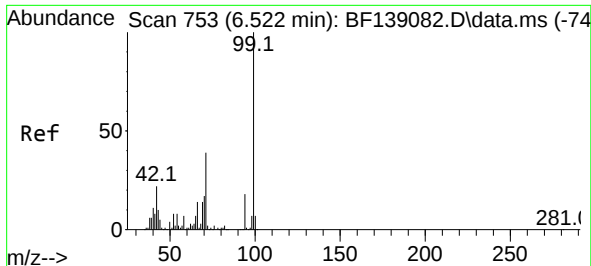
Tgt Ion:152 Resp: 99701  
Ion Ratio Lower Upper  
152 100  
150 159.5 125.1 187.7  
115 64.3 51.8 77.6



#5  
2-Fluorophenol  
Concen: 77.435 ng  
RT: 5.516 min Scan# 582  
Delta R.T. 0.006 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

Tgt Ion:112 Resp: 501803  
Ion Ratio Lower Upper  
112 100  
64 67.9 53.8 80.6  
63 37.2 29.4 44.2

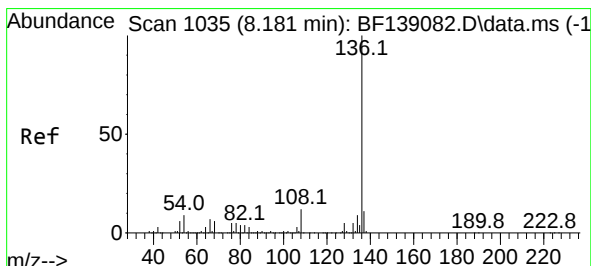
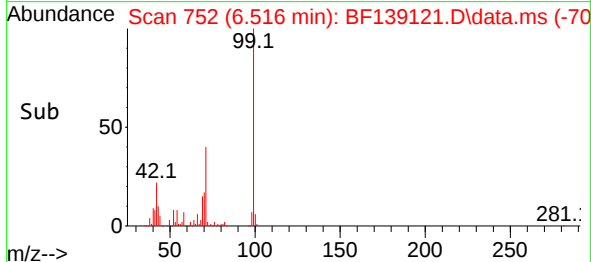
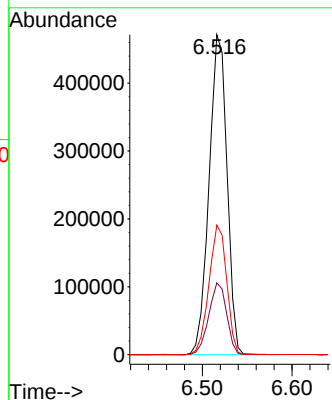
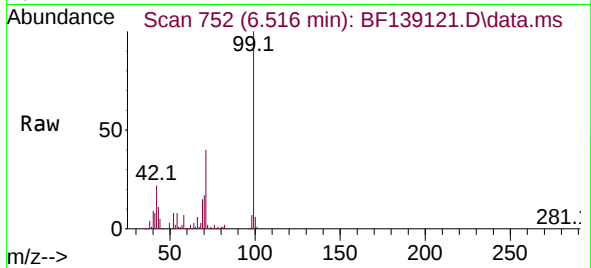




#7  
Phenol-d6  
Concen: 78.232 ng  
RT: 6.516 min Scan# 70  
Delta R.T. -0.006 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

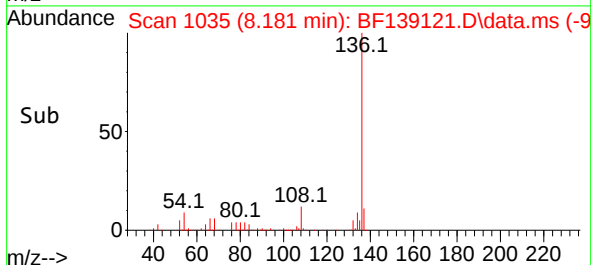
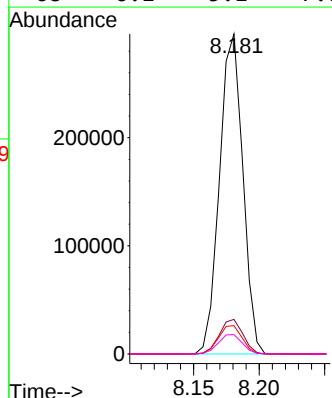
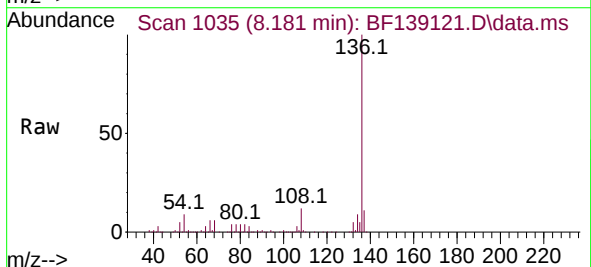
Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0.5-1.0-081524

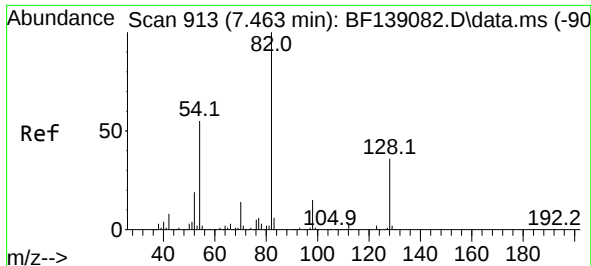
Tgt Ion: 99 Resp: 655067  
Ion Ratio Lower Upper  
99 100  
42 22.5 17.4 26.2  
71 40.4 31.2 46.8



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.181 min Scan# 1035  
Delta R.T. -0.000 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

Tgt Ion: 136 Resp: 365151  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.7 13.1  
54 8.8 7.6 11.4  
68 6.1 5.1 7.7





#23

Nitrobenzene-d5

Concen: 69.402 ng

RT: 7.457 min Scan# 913

Delta R.T. -0.006 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0.5-1.0-081524

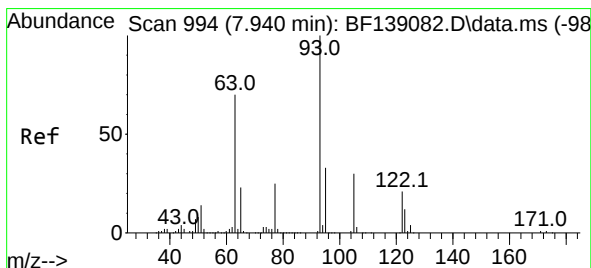
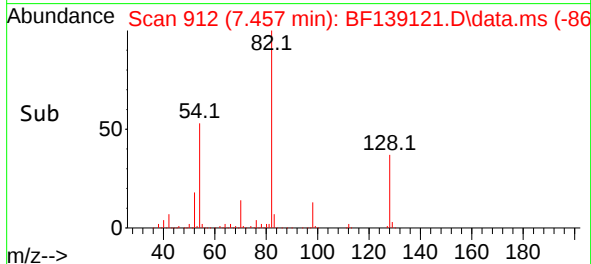
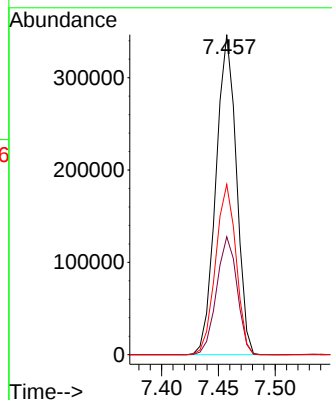
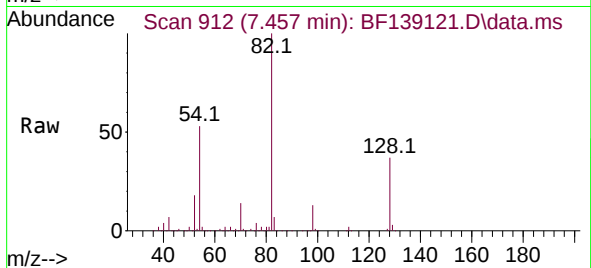
Tgt Ion: 82 Resp: 434910

Ion Ratio Lower Upper

82 100

128 36.9 29.0 43.4

54 53.2 43.4 65.2



#32

Benzoic acid

Concen: 14.539 ng

RT: 7.881 min Scan# 984

Delta R.T. -0.059 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

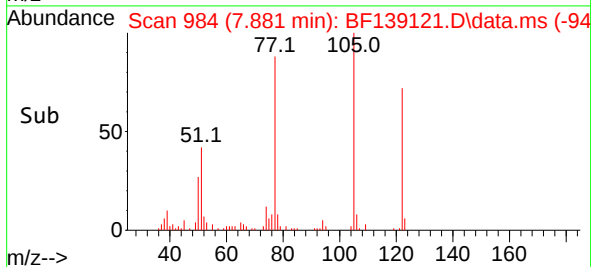
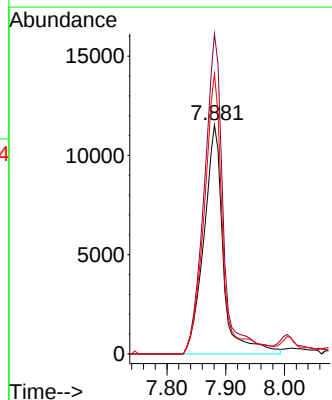
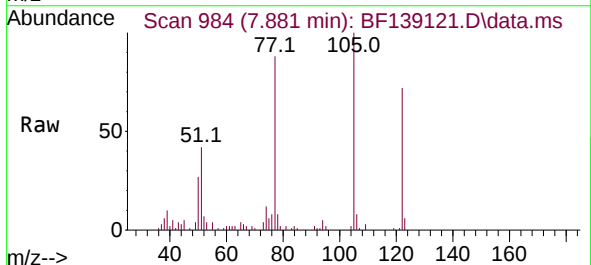
Tgt Ion:122 Resp: 26364

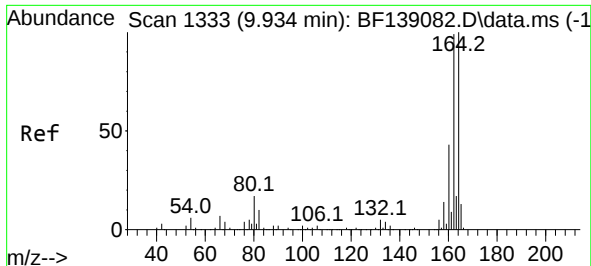
Ion Ratio Lower Upper

122 100

105 139.8 119.6 159.6

77 122.4 97.6 137.6

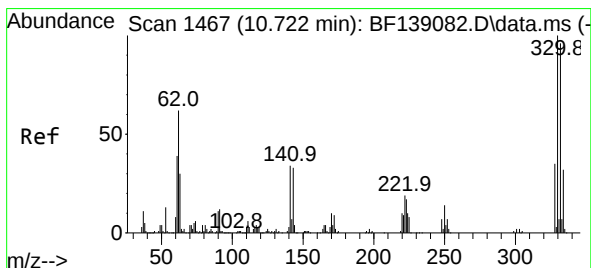
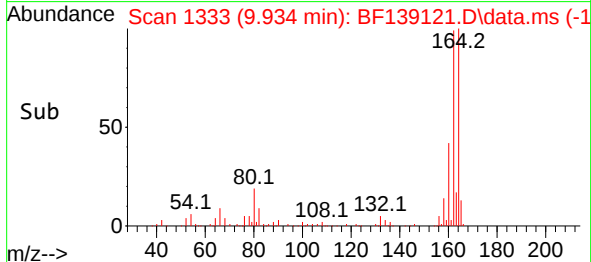
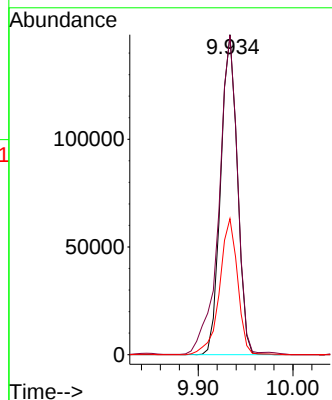
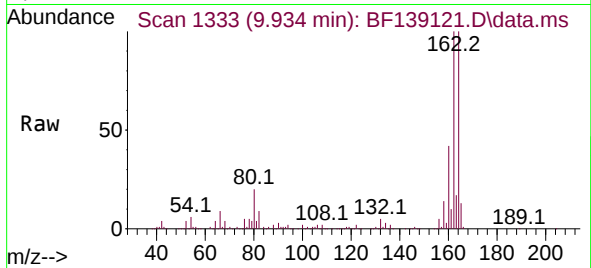




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.934 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

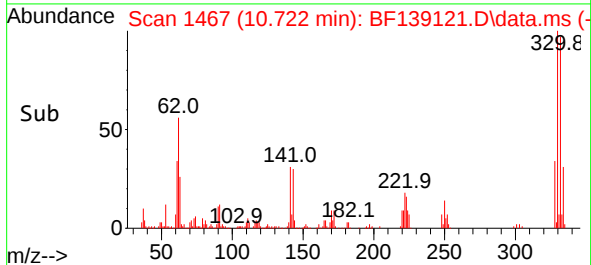
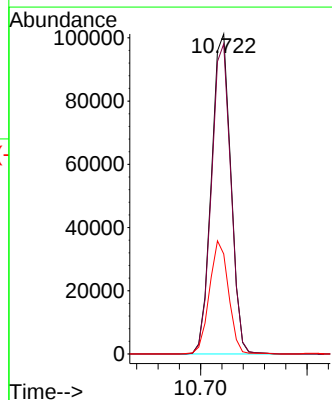
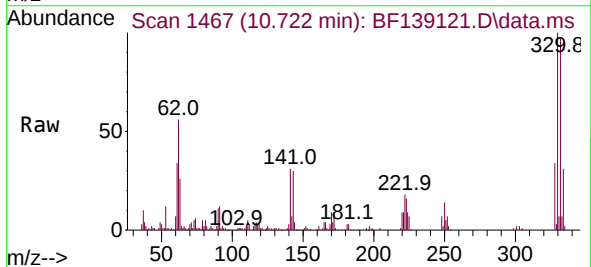
Instrument :  
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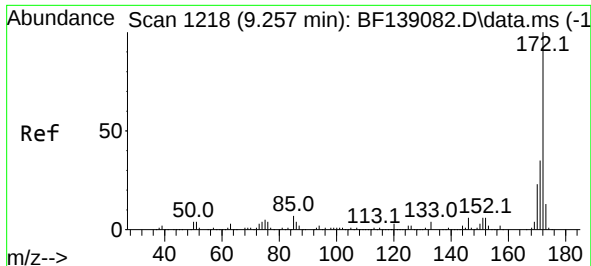
Tgt Ion:164 Resp: 181246  
Ion Ratio Lower Upper  
164 100  
162 99.8 79.5 119.3  
160 42.5 34.5 51.7



#42  
2,4,6-Tribromophenol  
Concen: 78.058 ng  
RT: 10.722 min Scan# 1467  
Delta R.T. -0.000 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

Tgt Ion:330 Resp: 128077  
Ion Ratio Lower Upper  
330 100  
332 96.9 77.0 115.6  
141 34.9 27.5 41.3

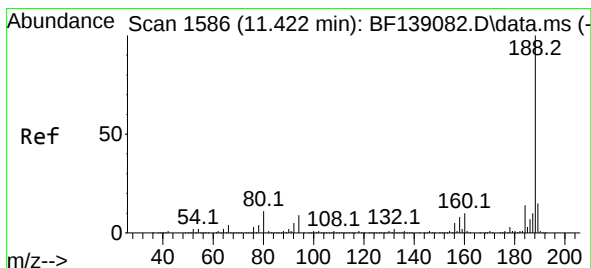
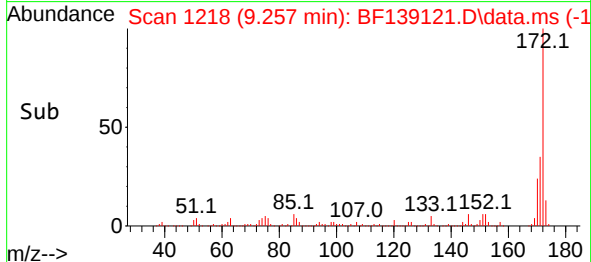
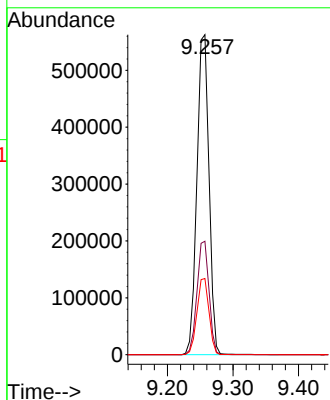
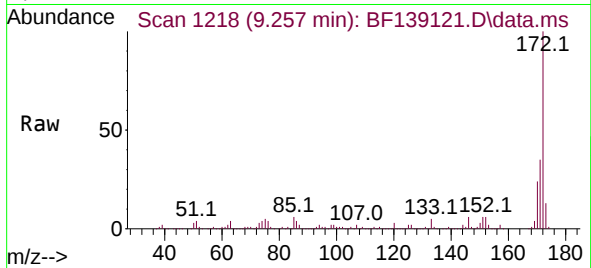




#45  
2-Fluorobiphenyl  
Concen: 63.413 ng  
RT: 9.257 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

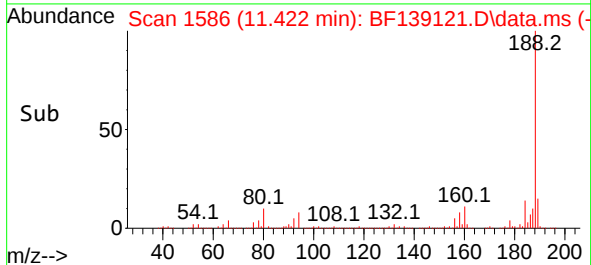
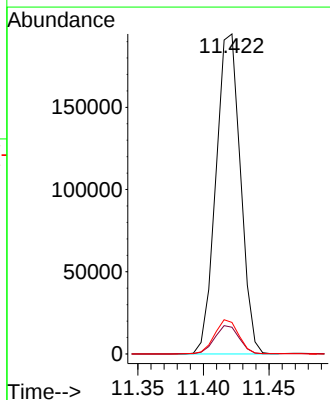
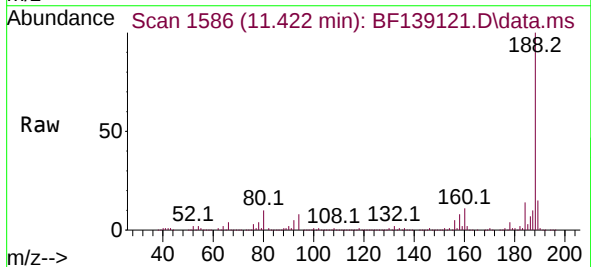
Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0.5-1.0-081524

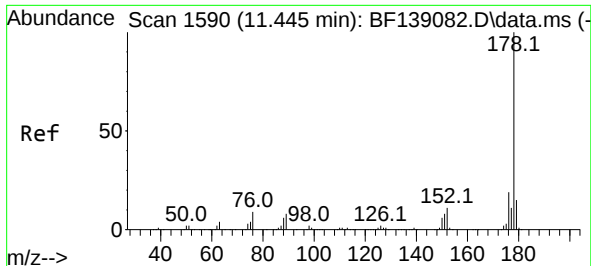
Tgt Ion:172 Resp: 724394  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.4 42.6  
170 23.8 18.8 28.2



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.422 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

Tgt Ion:188 Resp: 252789  
Ion Ratio Lower Upper  
188 100  
94 8.4 7.2 10.8  
80 9.8 8.5 12.7

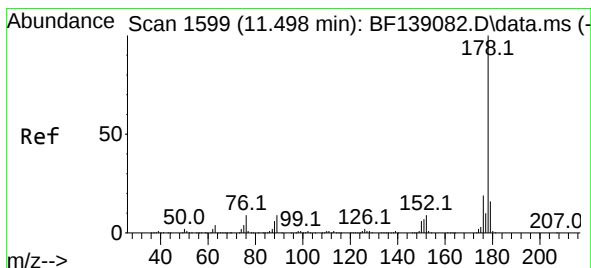
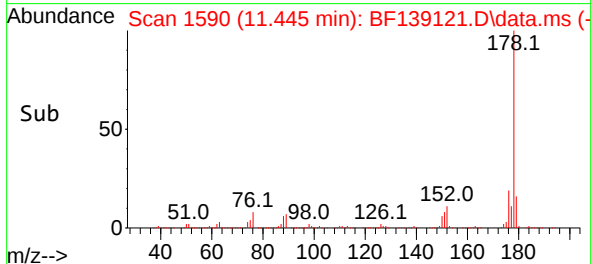
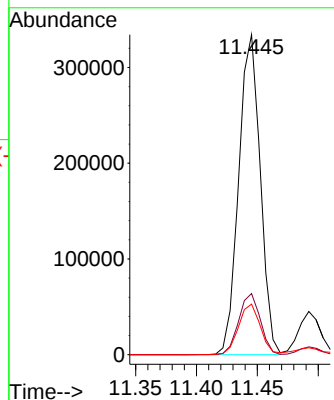
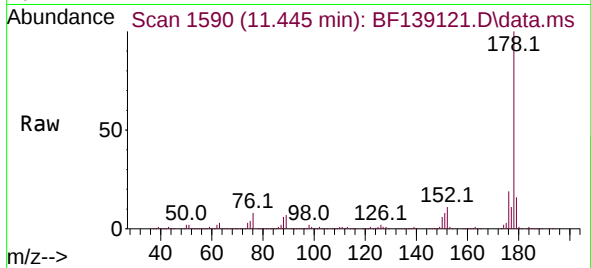




#71  
Phenanthrene  
Concen: 32.093 ng  
RT: 11.445 min Scan# 1590  
Delta R.T. -0.000 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

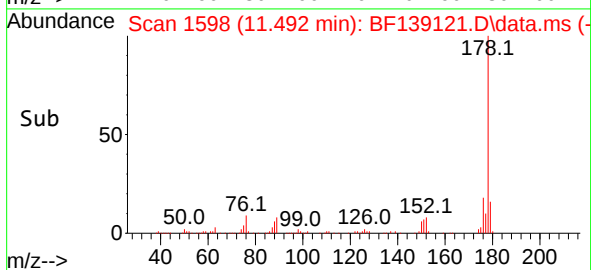
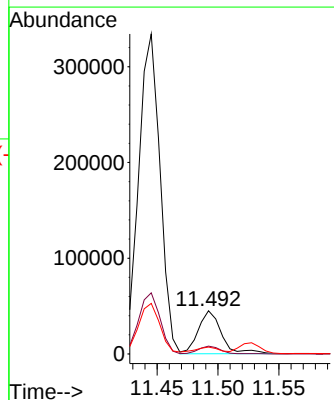
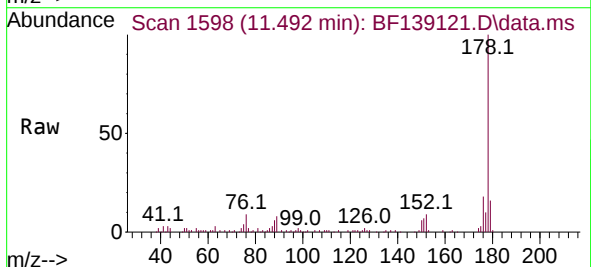
Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0.5-1.0-081524

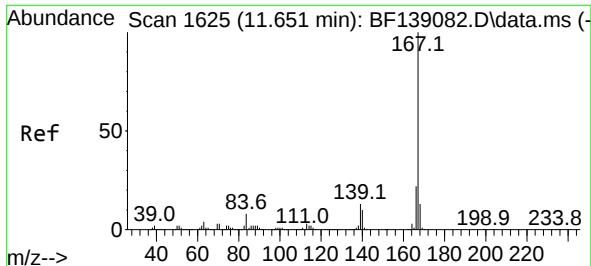
Tgt Ion:178 Resp: 412349  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.2  
179 15.8 12.3 18.5



#72  
Anthracene  
Concen: 4.718 ng  
RT: 11.492 min Scan# 1598  
Delta R.T. -0.006 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

Tgt Ion:178 Resp: 59290  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.0 22.4  
179 15.9 12.4 18.6

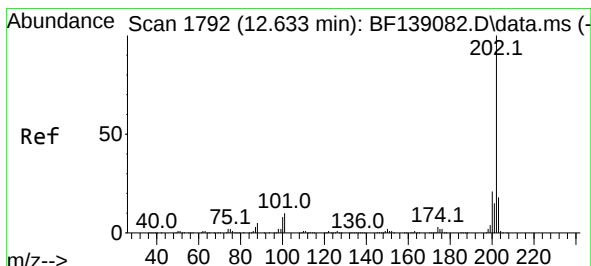
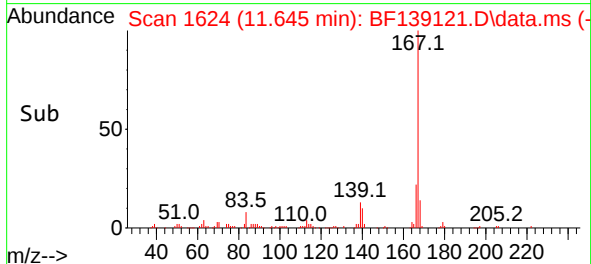
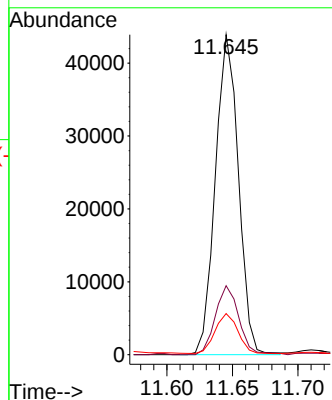
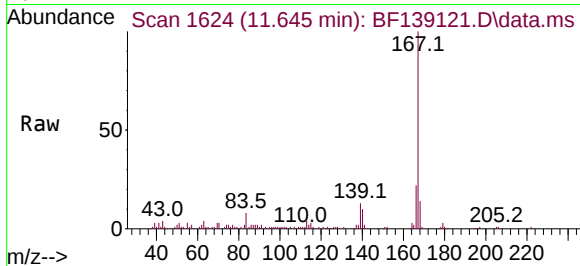




#73  
 Carbazole  
 Concen: 4.578 ng  
 RT: 11.645 min Scan# 1624  
 Delta R.T. -0.006 min  
 Lab File: BF139121.D  
 Acq: 22 Aug 2024 14:20

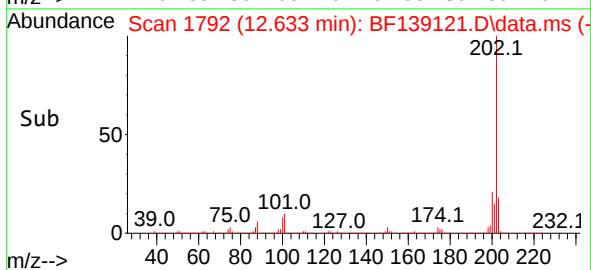
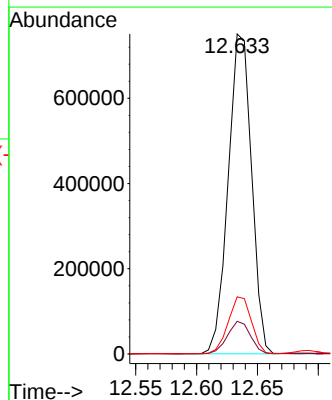
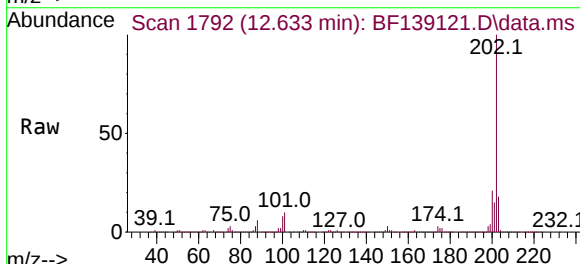
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-909-K1-0.5-1.0-081524

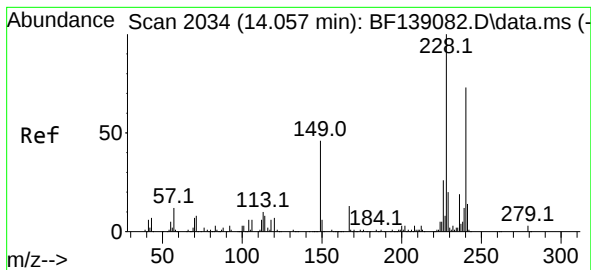
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 53718     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 21.6  | 17.3 25.9 |
| 139         | 12.9  | 10.5 15.7 |



#75  
 Fluoranthene  
 Concen: 73.120 ng  
 RT: 12.633 min Scan# 1792  
 Delta R.T. -0.000 min  
 Lab File: BF139121.D  
 Acq: 22 Aug 2024 14:20

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 1002756  |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 10.2  | 0.0 30.2 |
| 203         | 17.9  | 0.0 37.6 |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2035

Delta R.T. 0.006 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0.5-1.0-081524

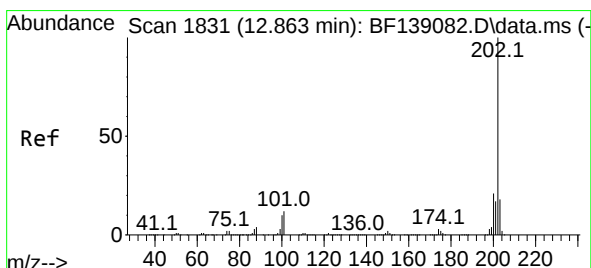
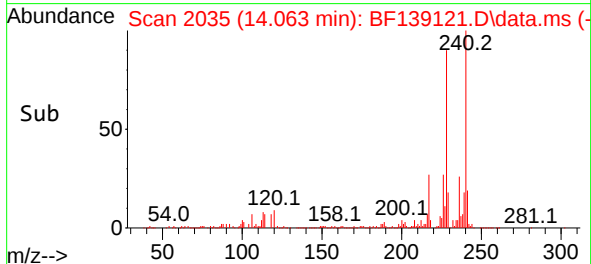
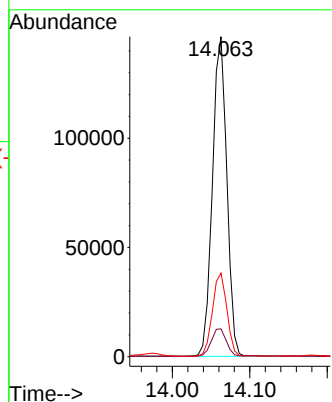
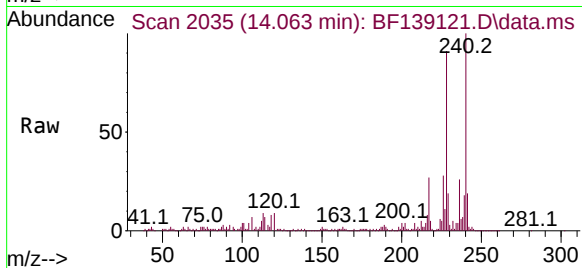
Tgt Ion:240 Resp: 188524

Ion Ratio Lower Upper

240 100

120 8.7 7.8 11.6

236 26.1 20.9 31.3



#78

Pyrene

Concen: 50.796 ng

RT: 12.863 min Scan# 1831

Delta R.T. -0.000 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

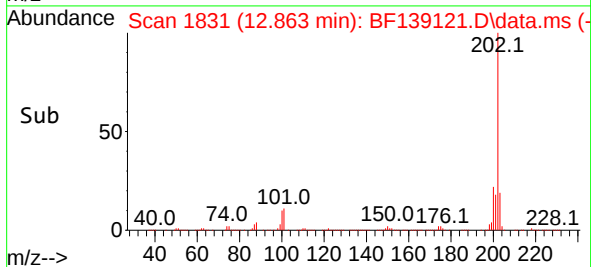
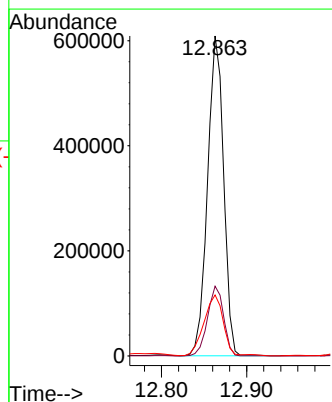
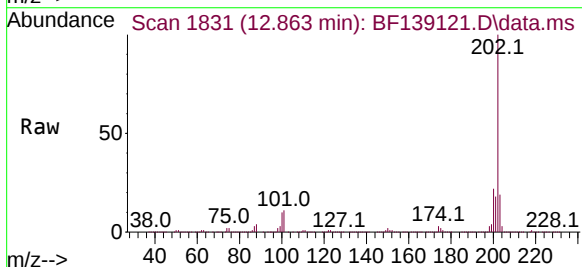
Tgt Ion:202 Resp: 799156

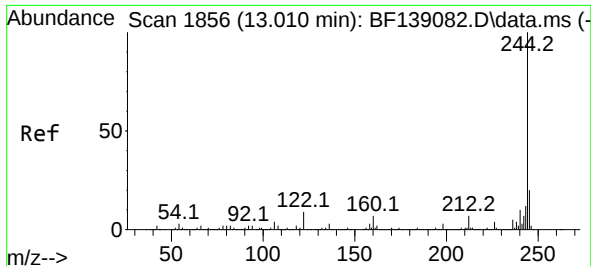
Ion Ratio Lower Upper

202 100

200 21.8 17.0 25.6

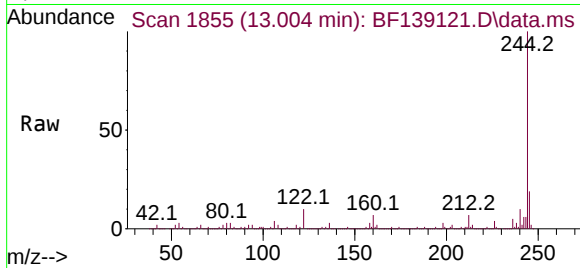
203 19.0 14.1 21.1



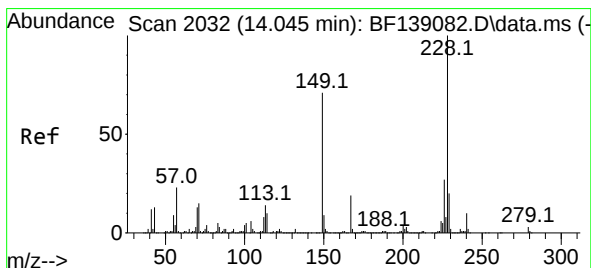
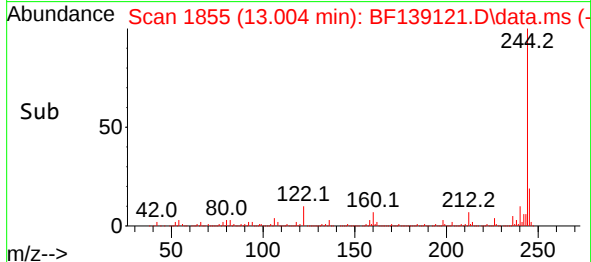
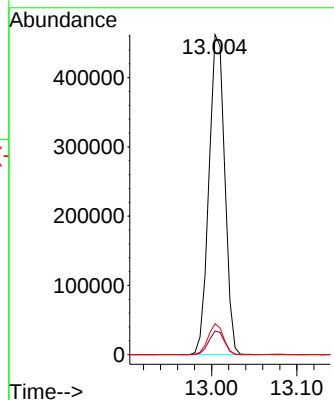


#79  
Terphenyl-d14  
Concen: 52.491 ng  
RT: 13.004 min Scan# 1855  
Delta R.T. -0.006 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0.5-1.0-081524

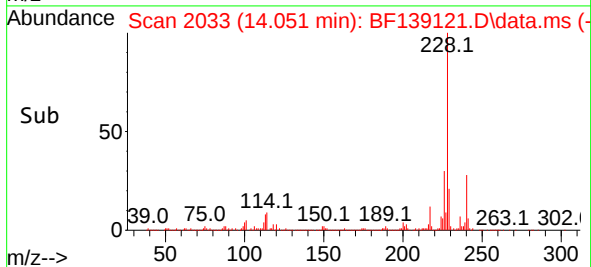
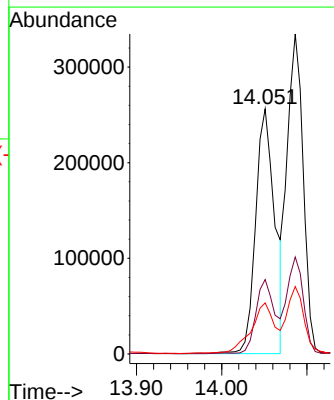
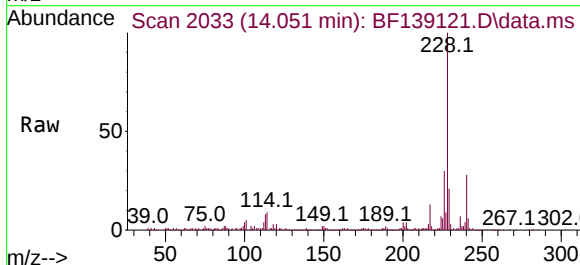


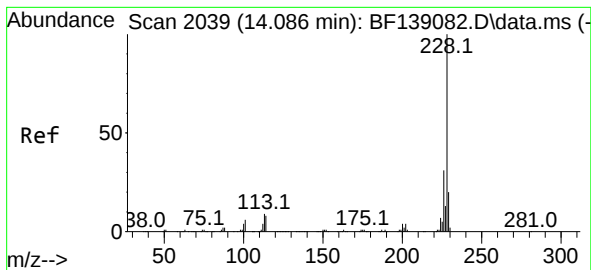
Tgt Ion:244 Resp: 596388  
Ion Ratio Lower Upper  
244 100  
212 7.4 5.8 8.6  
122 9.7 7.6 11.4



#81  
Benzo(a)anthracene  
Concen: 32.294 ng  
RT: 14.051 min Scan# 2033  
Delta R.T. 0.006 min  
Lab File: BF139121.D  
Acq: 22 Aug 2024 14:20

Tgt Ion:228 Resp: 400211  
Ion Ratio Lower Upper  
228 100  
226 30.3 21.9 32.9  
229 20.8 16.1 24.1





#83

Chrysene

Concen: 38.823 ng

RT: 14.086 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0.5-1.0-081524

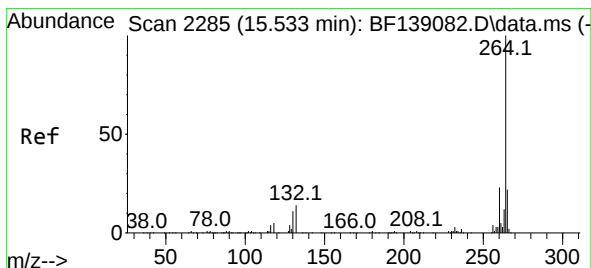
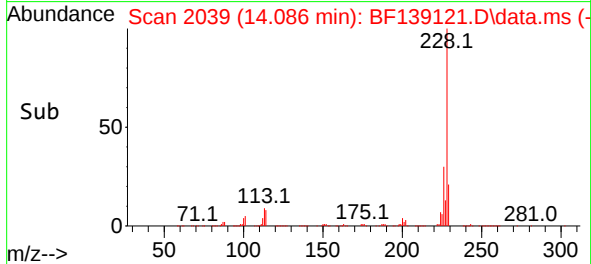
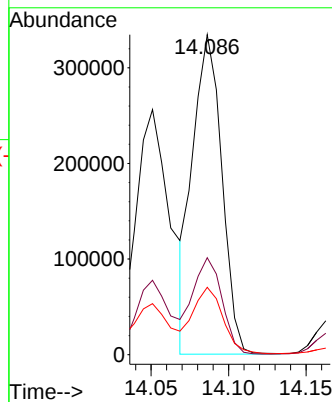
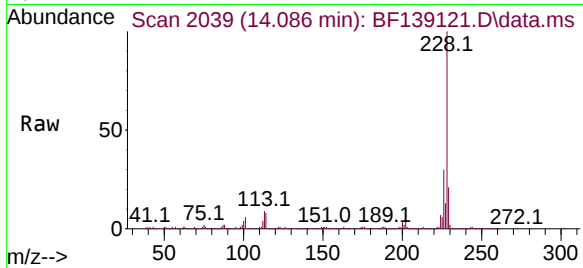
Tgt Ion:228 Resp: 436097

Ion Ratio Lower Upper

228 100

226 30.3 24.3 36.5

229 21.1 15.8 23.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2286

Delta R.T. 0.006 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

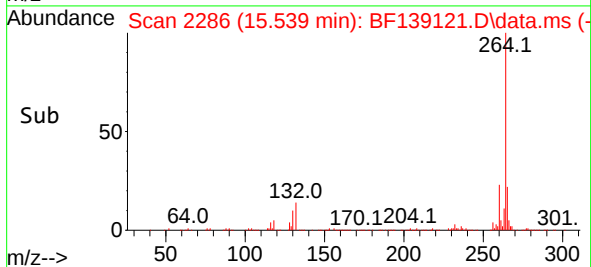
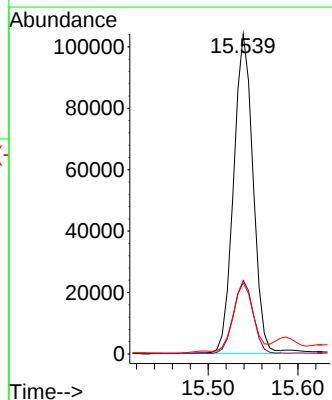
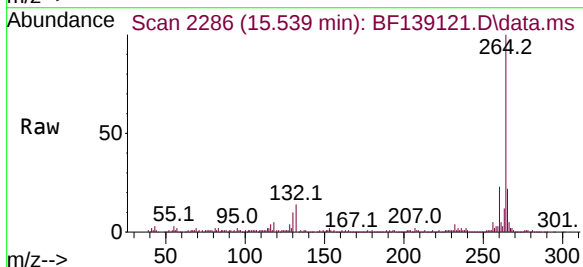
Tgt Ion:264 Resp: 156127

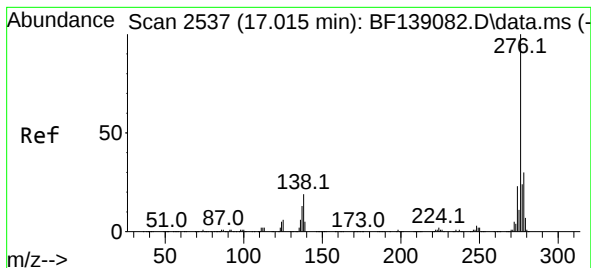
Ion Ratio Lower Upper

264 100

260 23.0 18.6 27.8

265 22.3 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 25.463 ng

RT: 17.027 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0.5-1.0-081524

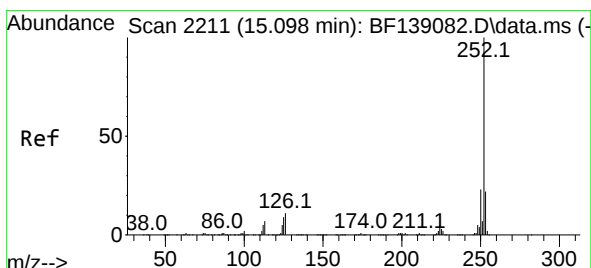
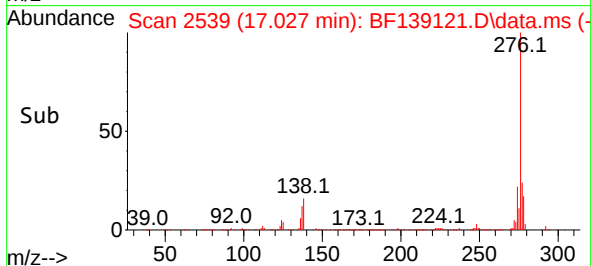
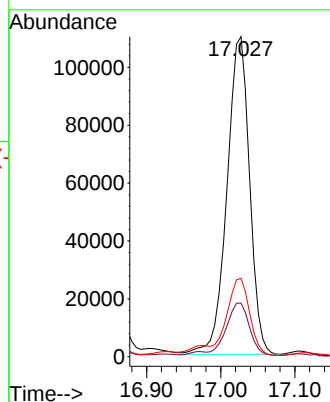
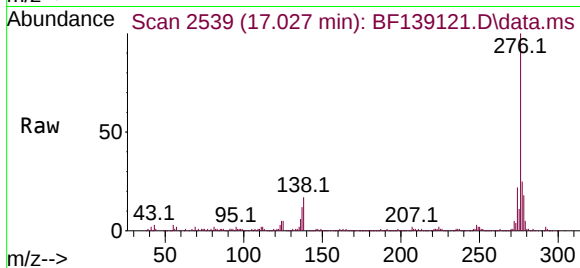
Tgt Ion:276 Resp: 232664

Ion Ratio Lower Upper

276 100

138 17.6 17.3 25.9

277 24.2 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 60.177 ng m

RT: 15.110 min Scan# 2213

Delta R.T. 0.012 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

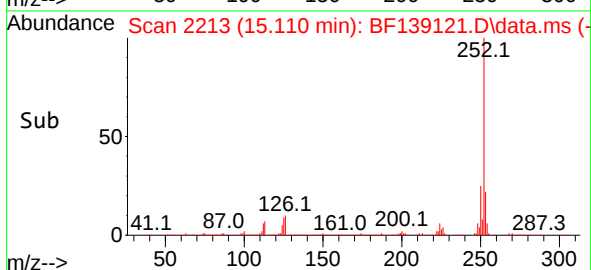
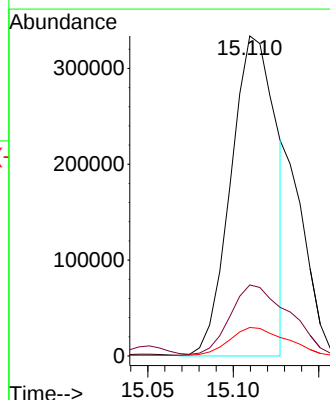
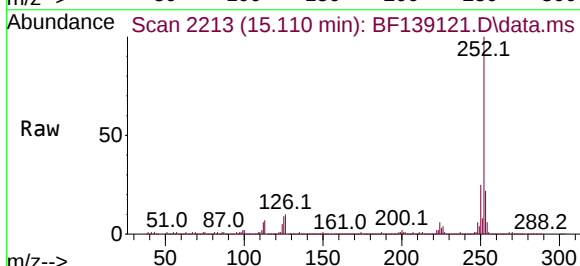
Tgt Ion:252 Resp: 612508

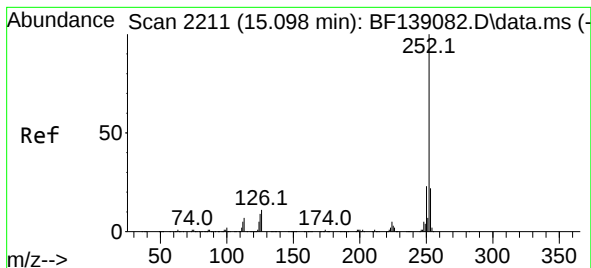
Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.2

125 8.9 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 20.648 ng m

RT: 15.127 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0.5-1.0-081524

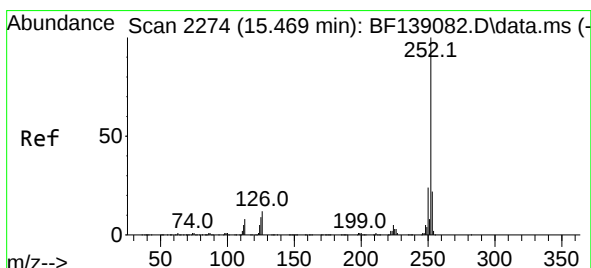
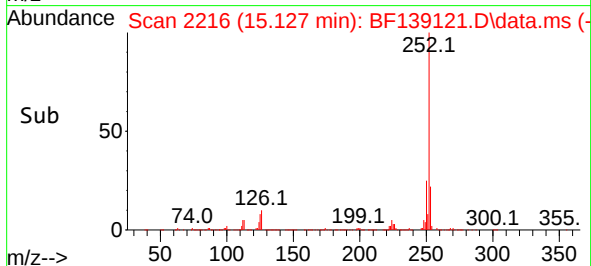
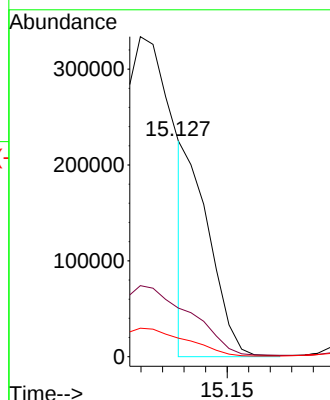
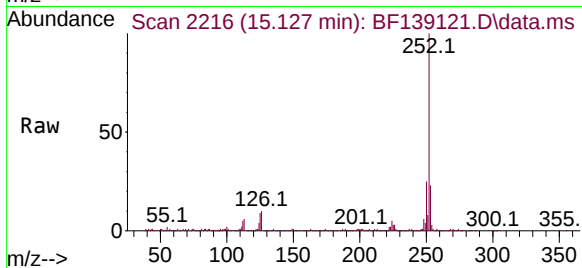
Tgt Ion:252 Resp: 175038

Ion Ratio Lower Upper

252 100

253 22.5 17.4 26.2

125 8.6 7.0 10.6



#90

Benzo(a)pyrene

Concen: 38.178 ng

RT: 15.480 min Scan# 2276

Delta R.T. 0.012 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

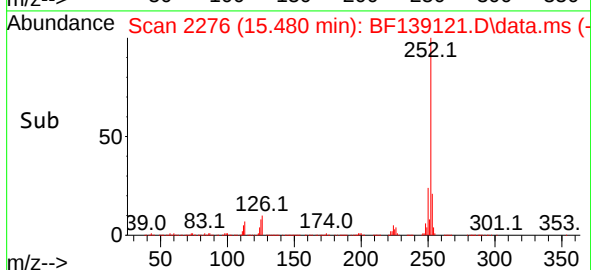
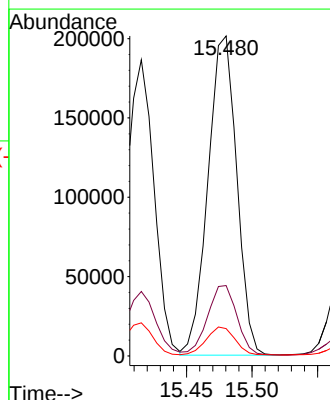
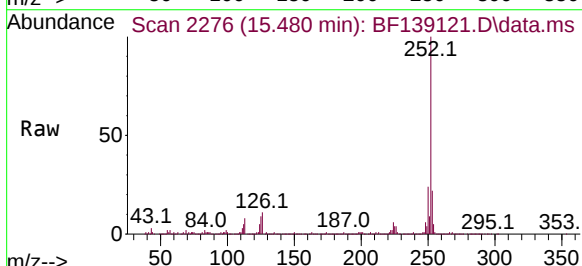
Tgt Ion:252 Resp: 307057

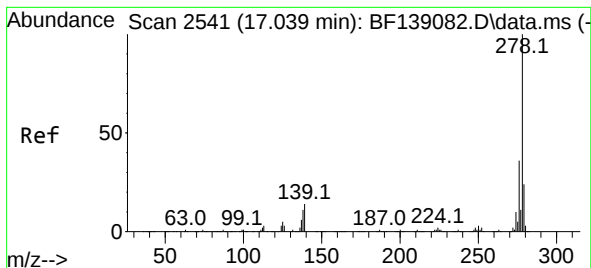
Ion Ratio Lower Upper

252 100

253 22.0 17.3 25.9

125 8.6 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 6.499 ng m

RT: 17.033 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0.5-1.0-081524

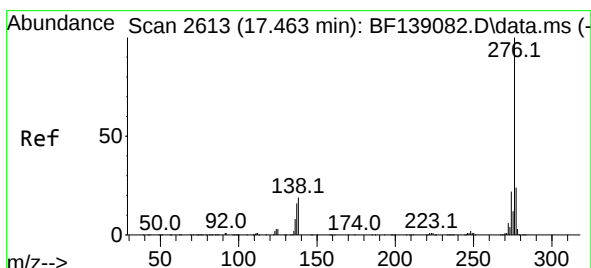
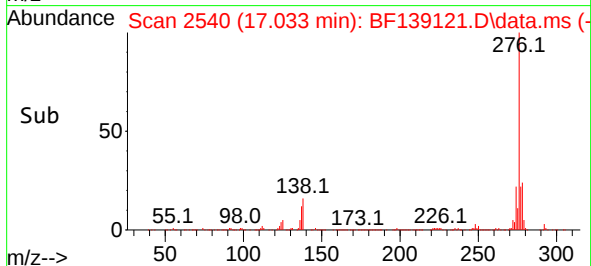
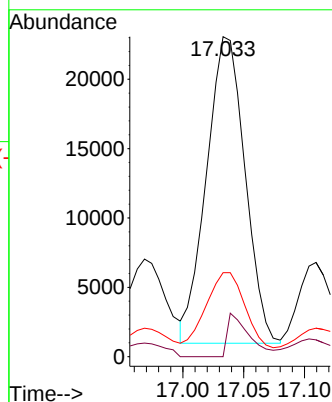
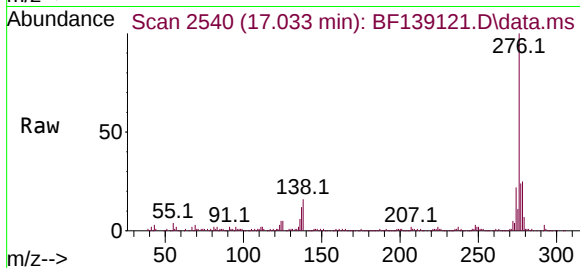
Tgt Ion:278 Resp: 48749

Ion Ratio Lower Upper

278 100

139 0.0 10.8 16.2#

279 26.3 19.2 28.8



#92

Benzo(g,h,i)perylene

Concen: 26.954 ng

RT: 17.474 min Scan# 2615

Delta R.T. 0.011 min

Lab File: BF139121.D

Acq: 22 Aug 2024 14:20

Tgt Ion:276 Resp: 219837

Ion Ratio Lower Upper

276 100

277 24.2 18.8 28.2

138 17.5 15.0 22.4

