

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF092524\  
 Data File : BF139543.D  
 Acq On : 25 Sep 2024 22:08  
 Operator : RC/JU  
 Sample : P4178-04  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ231

Quant Time: Sep 26 01:30:11 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

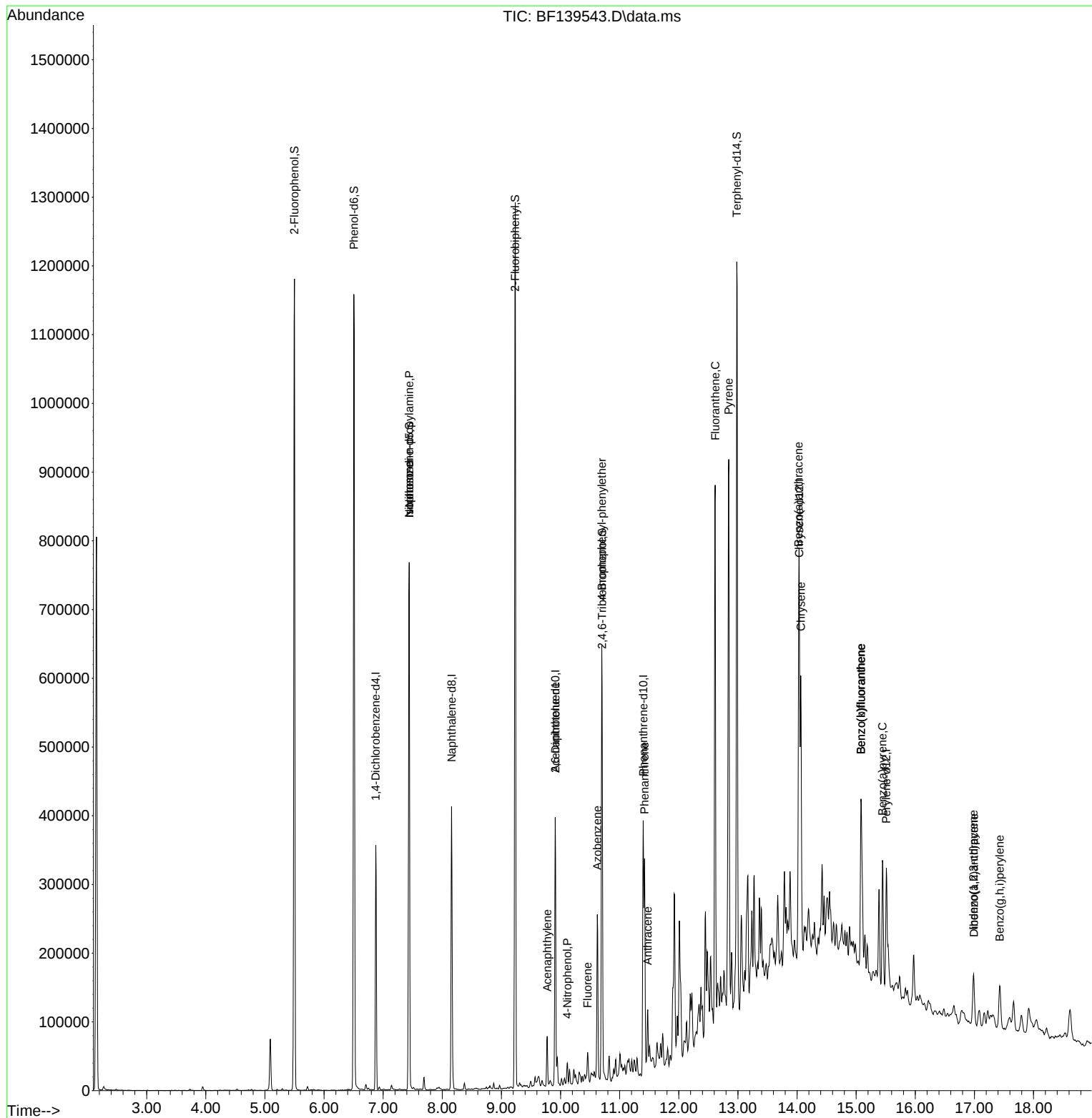
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.875  | 152  | 68999    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.157  | 136  | 237039   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.910  | 164  | 109541   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.398 | 188  | 187492   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.039 | 240  | 131638   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 15.510 | 264  | 97474    | 20.000 | ng    | 0.01     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 391602   | 92.587 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 497423   | 89.600 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.440  | 82   | 323039   | 64.068 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.704 | 330  | 91100    | 78.117 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.234  | 172  | 545384   | 69.829 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.980 | 244  | 520995   | 64.963 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.440  | 70   | 44574    | 13.549 | ng    | # 75     |
| 25) Isophorone                | 7.440  | 82   | 323035   | 40.510 | ng    | # 66     |
| 49) Acenaphthylene            | 9.775  | 152  | 41004    | 4.323  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 9.910  | 165  | 15155    | 9.515  | ng    | # 16     |
| 56) 4-Nitrophenol             | 10.116 | 139  | 3881     | 2.947  | ng    | # 1      |
| 58) Fluorene                  | 10.457 | 166  | 18538    | 2.462  | ng    | # 93     |
| 63) Azobenzene                | 10.622 | 77   | 57124    | 7.828  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.698 | 248  | 5958     | 3.207  | ng    | # 1      |
| 71) Phenanthrene              | 11.422 | 178  | 151862   | 16.788 | ng    | 100      |
| 72) Anthracene                | 11.475 | 178  | 52056    | 5.886  | ng    | 98       |
| 75) Fluoranthene              | 12.616 | 202  | 444327   | 45.996 | ng    | 99       |
| 78) Pyrene                    | 12.845 | 202  | 485088   | 42.917 | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.027 | 228  | 230578   | 26.443 | ng    | 93       |
| 83) Chrysene                  | 14.063 | 228  | 214705   | 26.764 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.986 | 276  | 53205    | 9.179  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.080 | 252  | 212781   | 35.395 | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 15.080 | 252  | 212781   | 38.389 | ng    | # 95     |
| 90) Benzo(a)pyrene            | 15.445 | 252  | 114932   | 23.052 | ng    | # 98     |
| 91) Dibenzo(a,h)anthracene    | 16.992 | 278  | 13559    | 2.831  | ng    | # 79     |
| 92) Benzo(g,h,i)perylene      | 17.427 | 276  | 55552    | 11.714 | ng    | # 95     |
| -----                         |        |      |          |        |       |          |

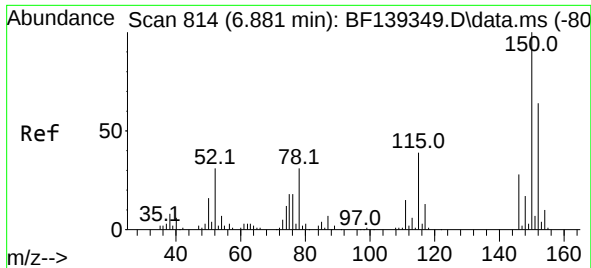
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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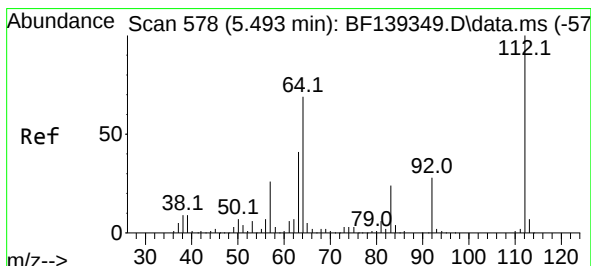
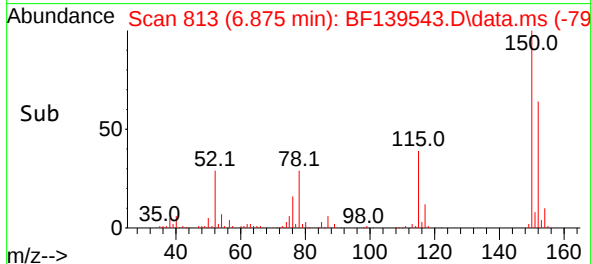
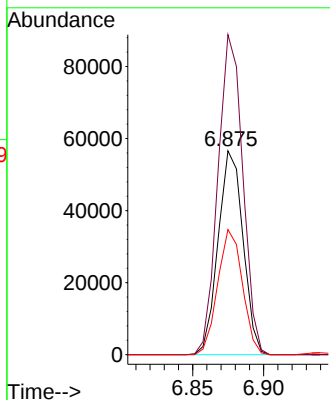
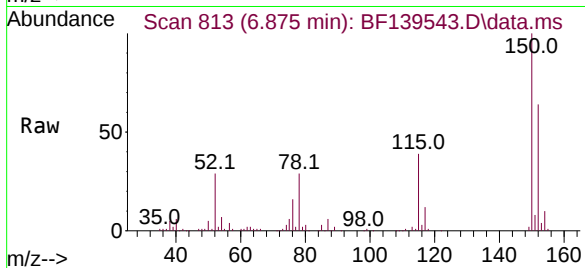




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

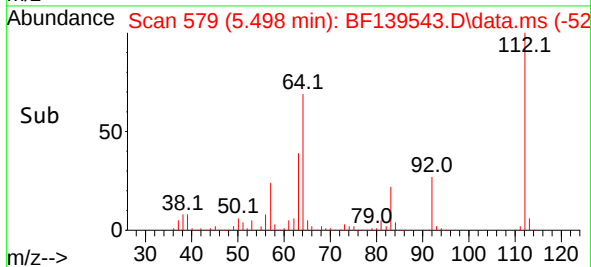
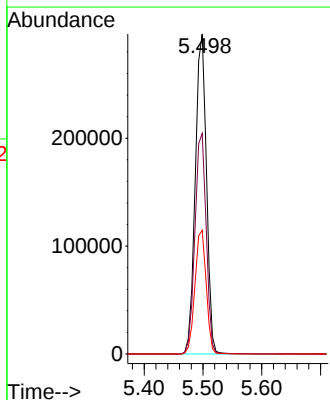
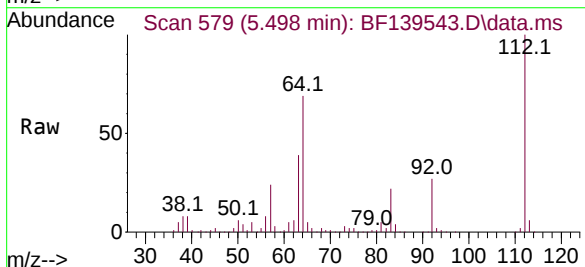
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ231

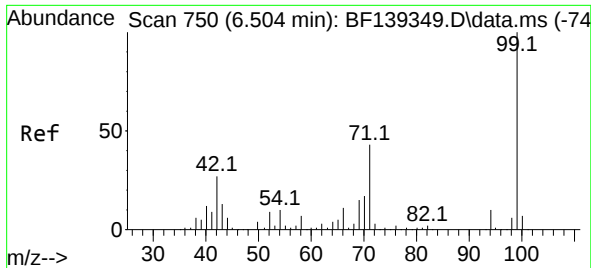
Tgt Ion:152 Resp: 68999  
Ion Ratio Lower Upper  
152 100  
150 157.0 124.1 186.1  
115 61.4 48.1 72.1



#5  
2-Fluorophenol  
Concen: 92.587 ng  
RT: 5.498 min Scan# 579  
Delta R.T. 0.005 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

Tgt Ion:112 Resp: 391602  
Ion Ratio Lower Upper  
112 100  
64 68.9 54.8 82.2  
63 38.6 33.0 49.4

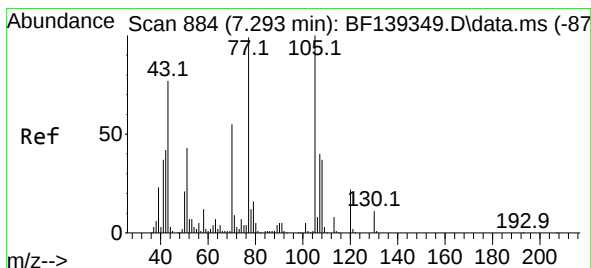
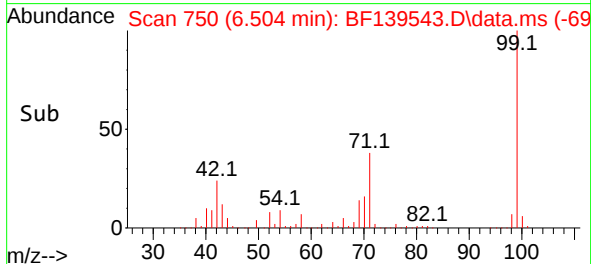
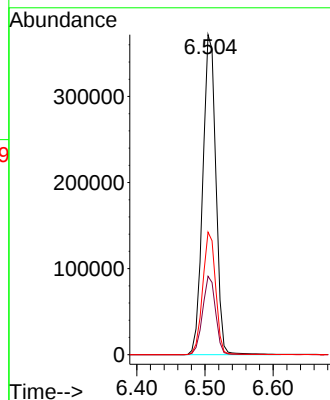
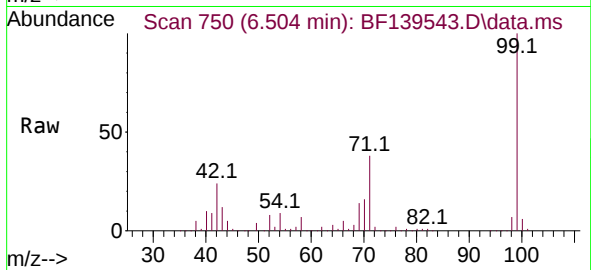




#7  
Phenol-d6  
Concen: 89.600 ng  
RT: 6.504 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

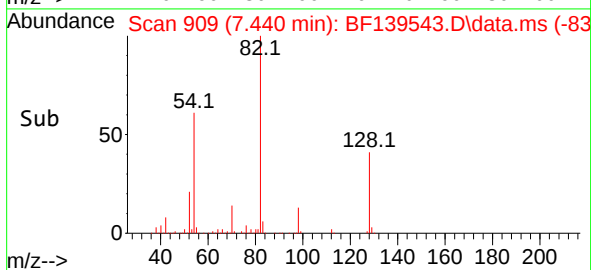
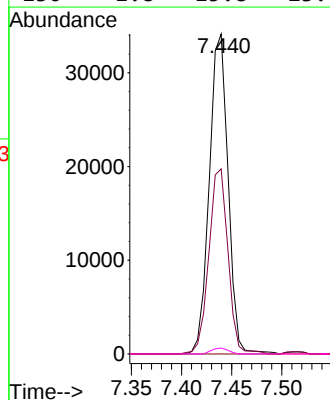
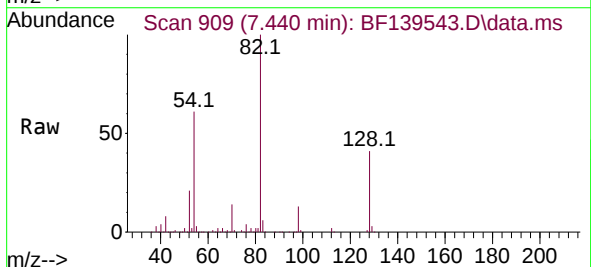
Instrument :  
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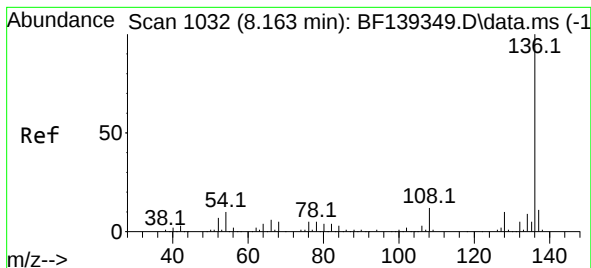
Tgt Ion: 99 Resp: 497423  
Ion Ratio Lower Upper  
99 100  
42 24.5 21.9 32.9  
71 38.3 34.6 52.0



#19  
n-Nitroso-di-n-propylamine  
Concen: 13.549 ng  
RT: 7.440 min Scan# 909  
Delta R.T. 0.147 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

Tgt Ion: 70 Resp: 44574  
Ion Ratio Lower Upper  
70 100  
42 57.9 61.2 91.8#  
101 0.0 7.5 11.3#  
130 1.8 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: BF139543.D

Acq: 25 Sep 2024 22:08

Instrument :

BNA\_F

ClientSampleId :

VNJ231

Tgt Ion:136 Resp: 237039

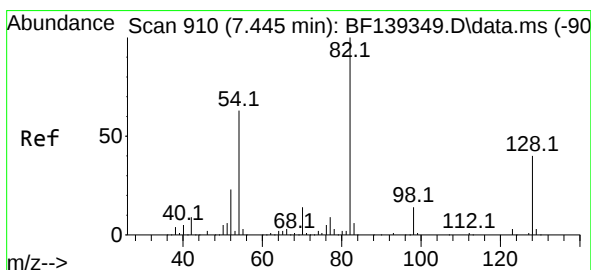
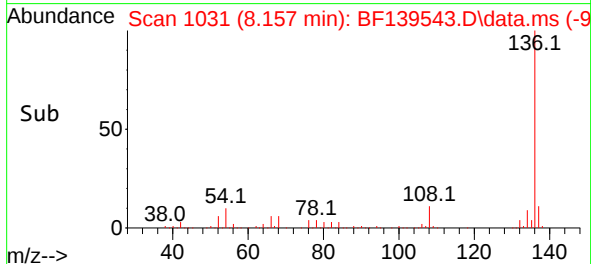
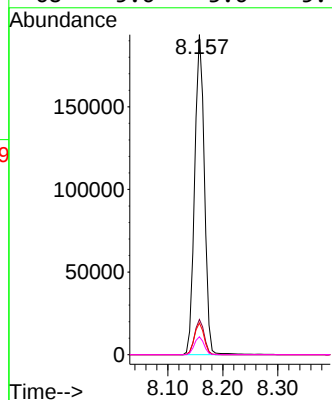
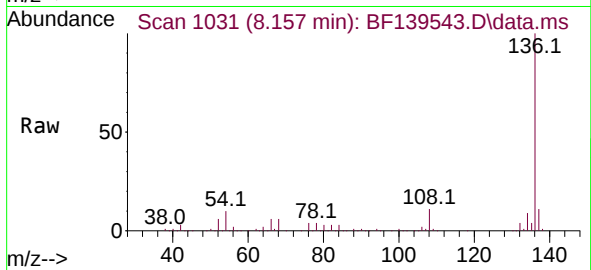
Ion Ratio Lower Upper

136 100

137 11.0 8.6 12.8

54 9.9 7.8 11.8

68 5.6 3.6 5.4#



#23

Nitrobenzene-d5

Concen: 64.068 ng

RT: 7.440 min Scan# 909

Delta R.T. -0.006 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

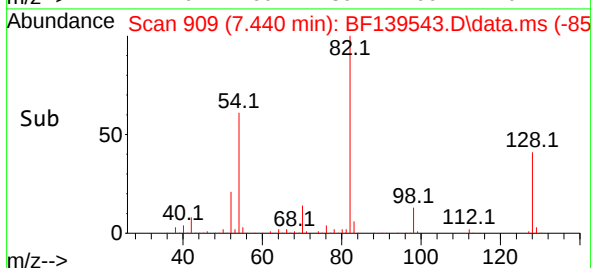
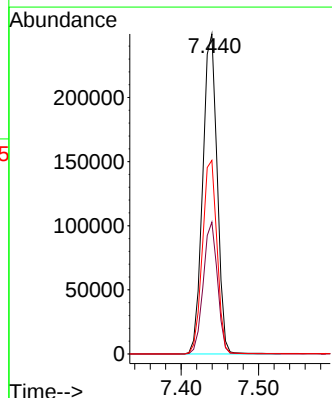
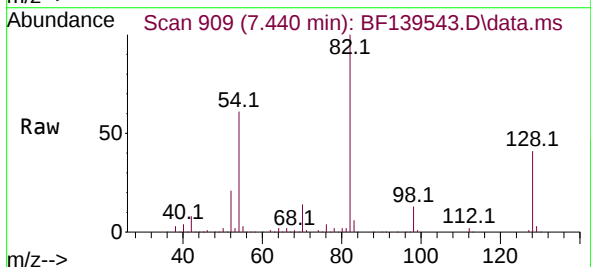
Tgt Ion: 82 Resp: 323039

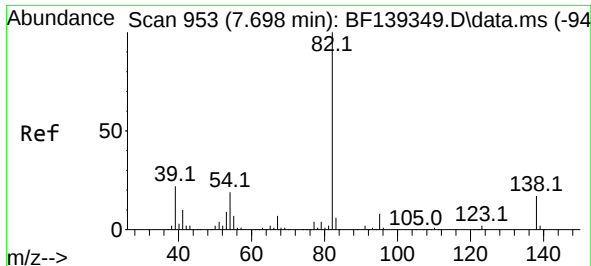
Ion Ratio Lower Upper

82 100

128 41.2 31.8 47.6

54 60.5 50.6 75.8

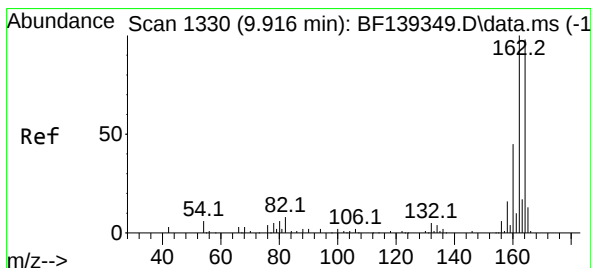
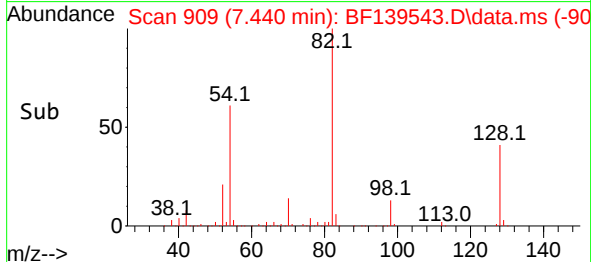
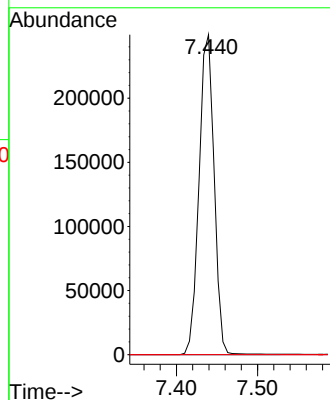
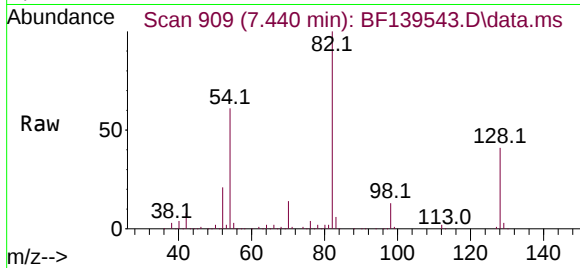




#25  
Isophorone  
Concen: 40.510 ng  
RT: 7.440 min Scan# 90  
Delta R.T. -0.259 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

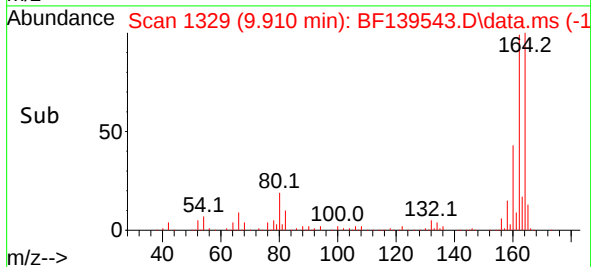
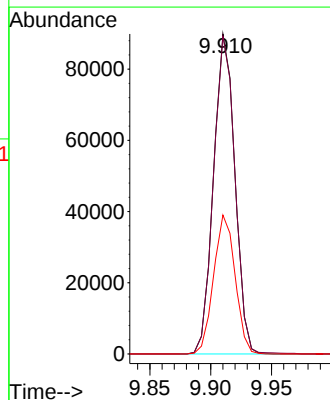
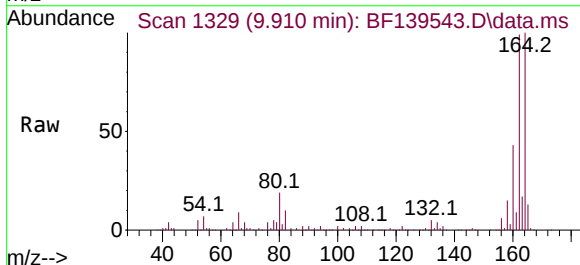
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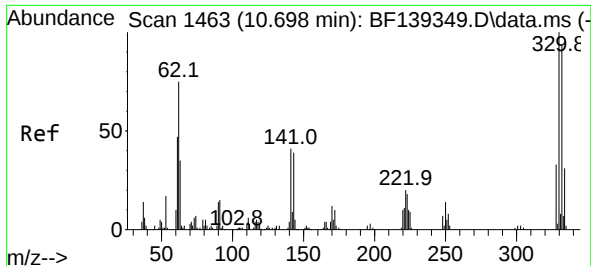
Tgt Ion: 82 Resp: 323035  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.7 10.1#  
138 0.0 13.3 19.9#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 1329  
Delta R.T. -0.006 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

Tgt Ion:164 Resp: 109541  
Ion Ratio Lower Upper  
164 100  
162 99.3 81.3 121.9  
160 43.4 36.4 54.6





#42

2,4,6-Tribromophenol

Concen: 78.117 ng

RT: 10.704 min Scan# 1464

Delta R.T. 0.006 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

Instrument :

BNA\_F

ClientSampleId :

VNJ231

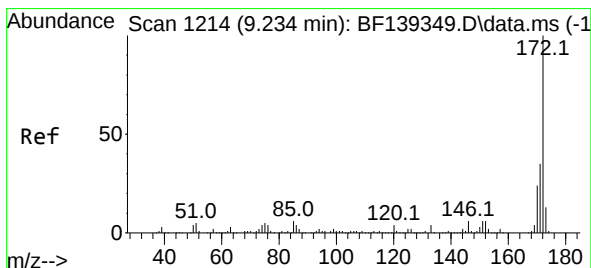
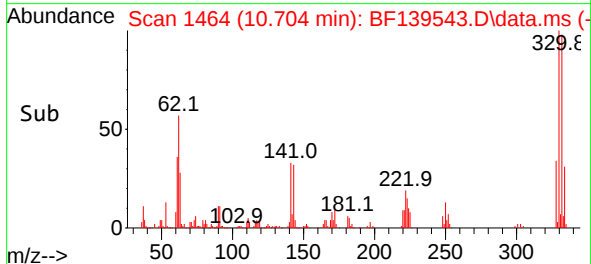
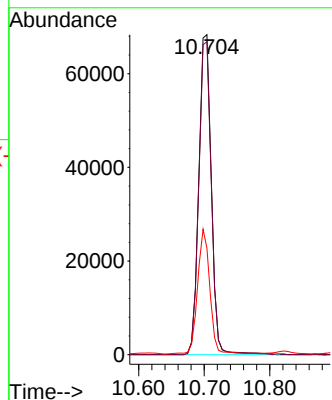
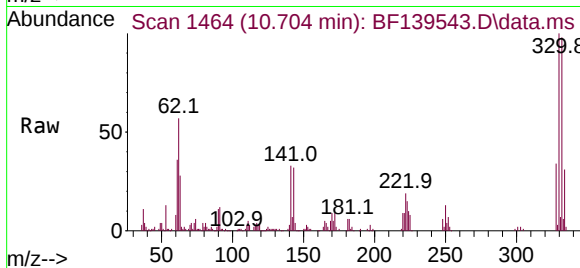
Tgt Ion:330 Resp: 91100

Ion Ratio Lower Upper

330 100

332 97.8 75.2 112.8

141 37.9 31.2 46.8



#45

2-Fluorobiphenyl

Concen: 69.829 ng

RT: 9.234 min Scan# 1214

Delta R.T. -0.000 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

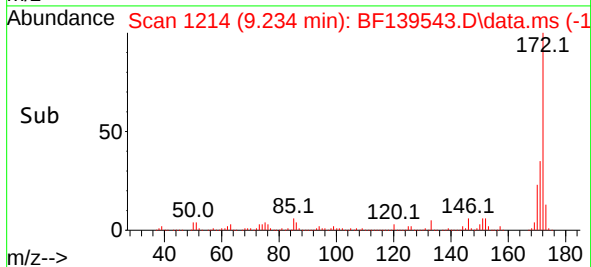
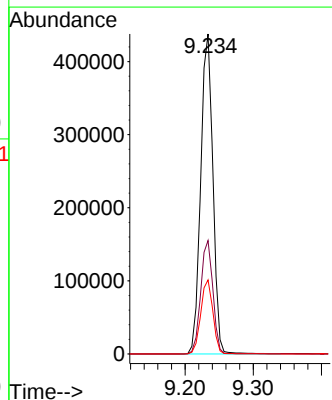
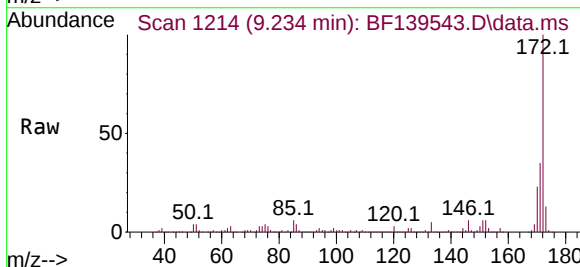
Tgt Ion:172 Resp: 545384

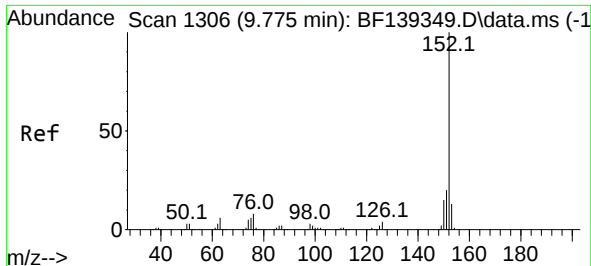
Ion Ratio Lower Upper

172 100

171 35.5 28.3 42.5

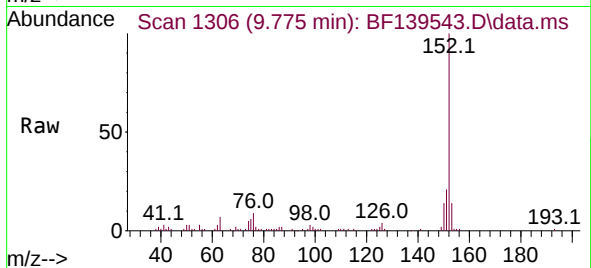
170 23.2 19.0 28.6



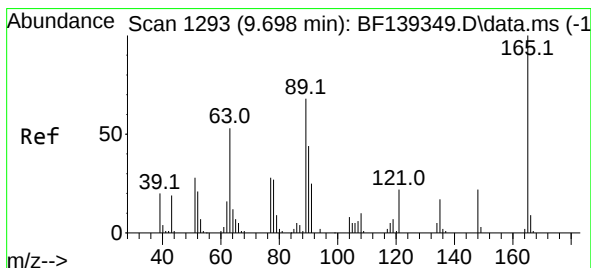
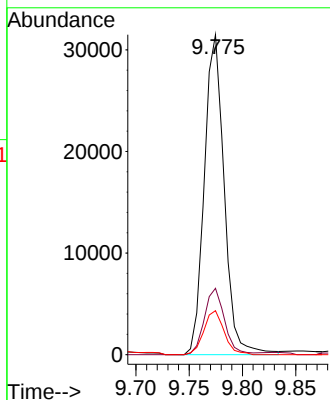
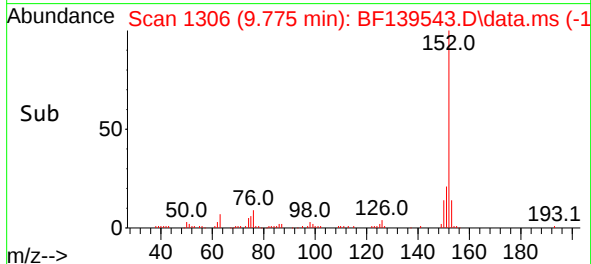


#49  
Acenaphthylene  
Concen: 4.323 ng  
RT: 9.775 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

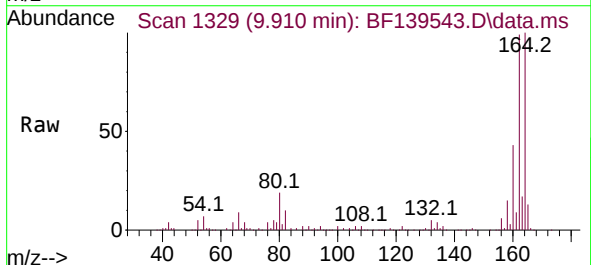
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ231



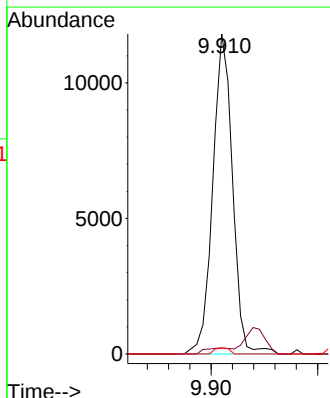
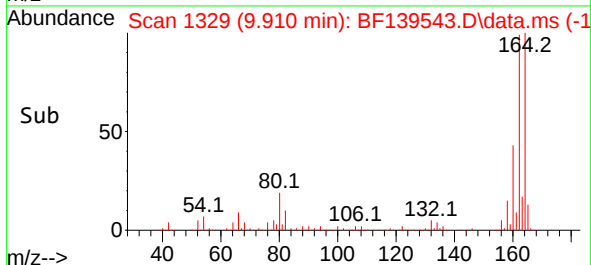
Tgt Ion:152 Resp: 41004  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.2 24.2  
153 13.8 10.3 15.5

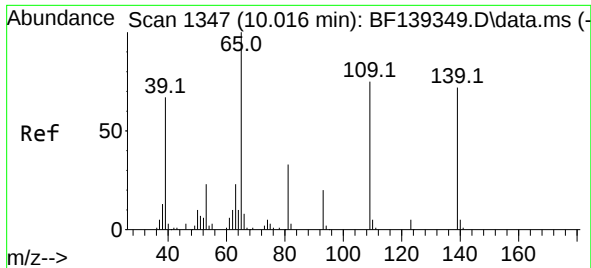


#51  
2,6-Dinitrotoluene  
Concen: 9.515 ng  
RT: 9.910 min Scan# 1329  
Delta R.T. 0.212 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08



Tgt Ion:165 Resp: 15155  
Ion Ratio Lower Upper  
165 100  
63 1.9 60.9 91.3#  
89 1.9 54.7 82.1#

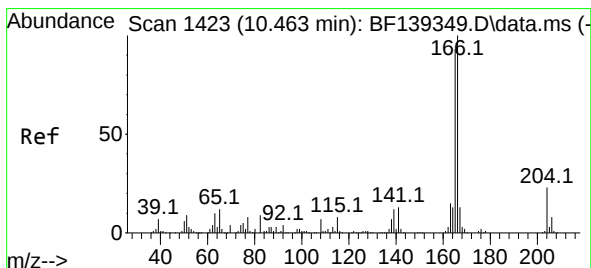
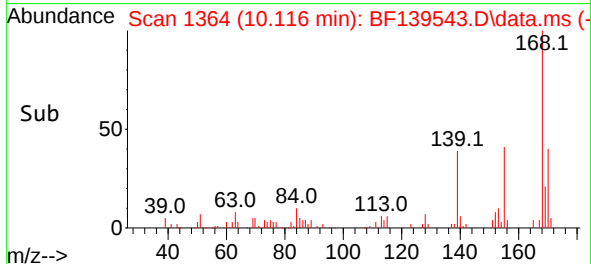
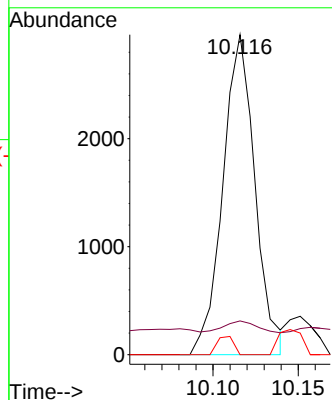
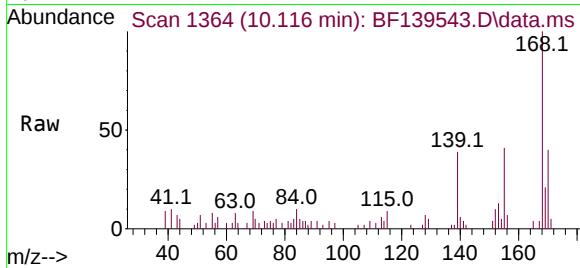




#56  
4-Nitrophenol  
Concen: 2.947 ng  
RT: 10.116 min Scan# 1347  
Delta R.T. 0.100 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

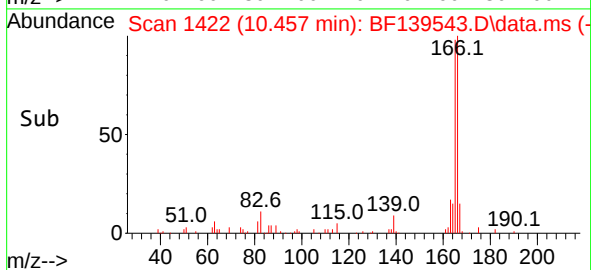
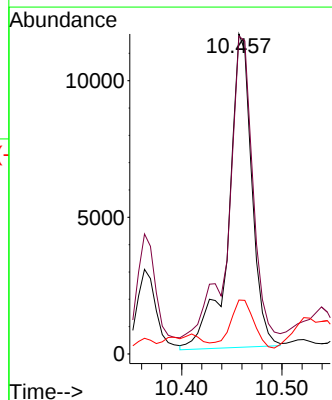
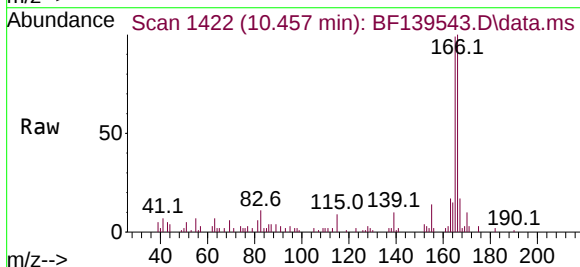
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ231

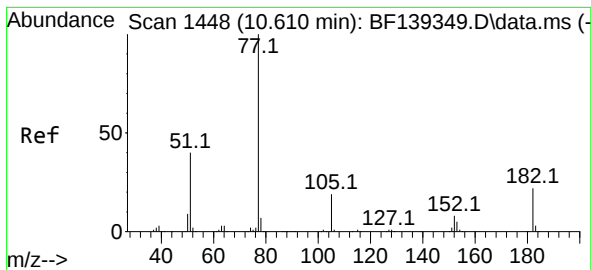
Tgt Ion:139 Resp: 3881  
Ion Ratio Lower Upper  
139 100  
109 10.6 84.1 124.1#  
65 0.0 120.0 160.0#



#58  
Fluorene  
Concen: 2.462 ng  
RT: 10.457 min Scan# 1422  
Delta R.T. -0.006 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

Tgt Ion:166 Resp: 18538  
Ion Ratio Lower Upper  
166 100  
165 99.3 74.5 111.7  
167 16.8 10.6 16.0#





#63

Azobenzene

Concen: 7.828 ng

RT: 10.622 min Scan# 1448

Delta R.T. 0.012 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

Instrument :

BNA\_F

ClientSampleId :

VNJ231

Tgt Ion: 77 Resp: 57124

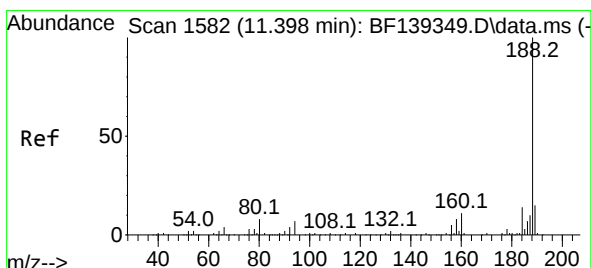
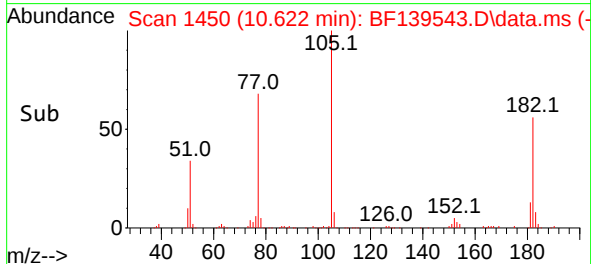
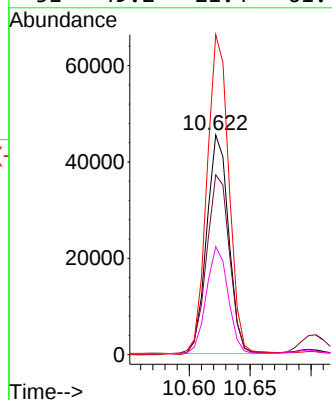
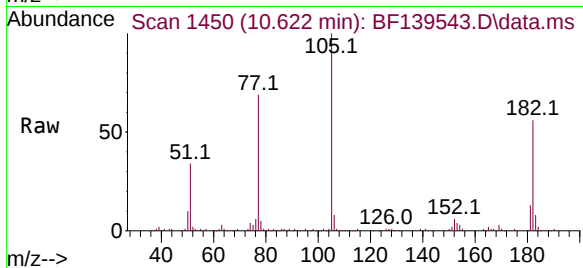
Ion Ratio Lower Upper

77 100

182 81.8 1.8 41.8#

105 145.6 0.0 38.6#

51 49.2 21.4 61.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

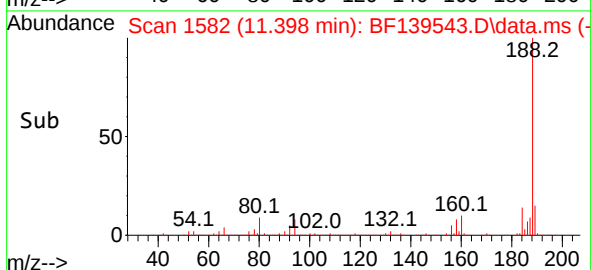
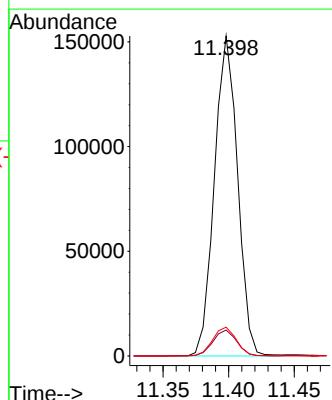
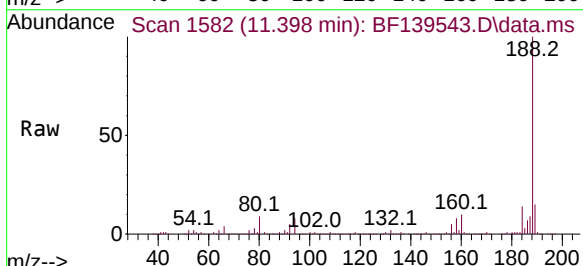
Tgt Ion: 188 Resp: 187492

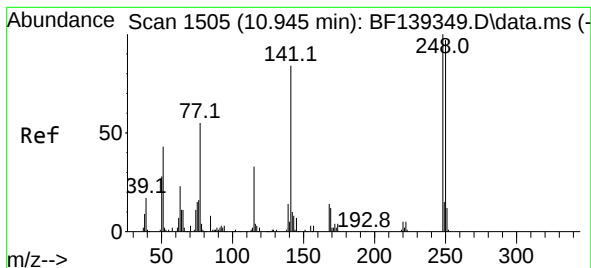
Ion Ratio Lower Upper

188 100

94 8.1 5.5 8.3

80 9.0 6.6 9.8

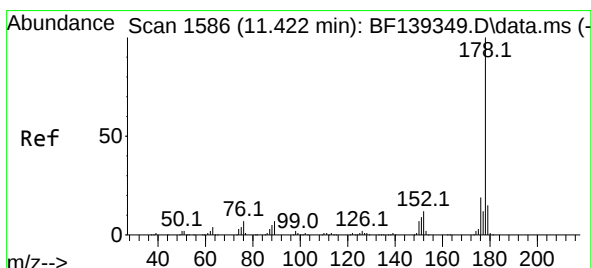
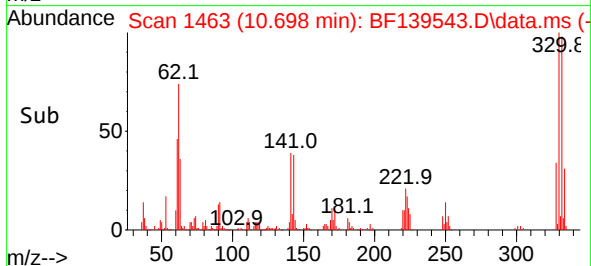
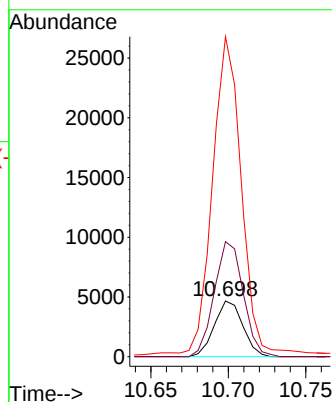
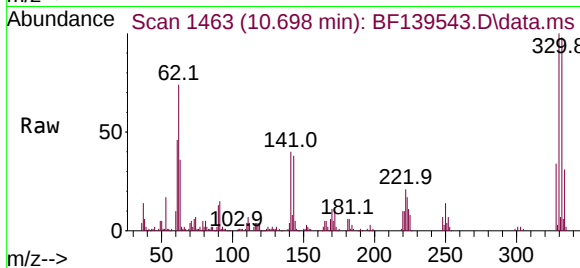




#67  
4-Bromophenyl-phenylether  
Concen: 3.207 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.247 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

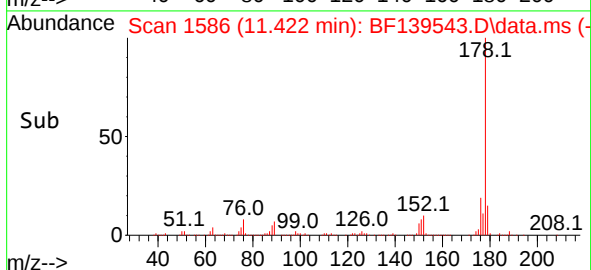
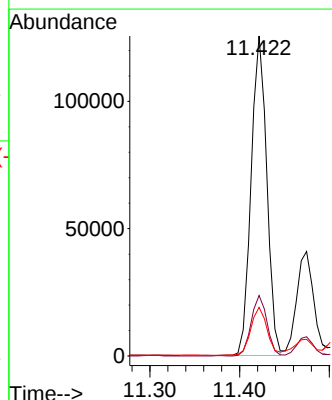
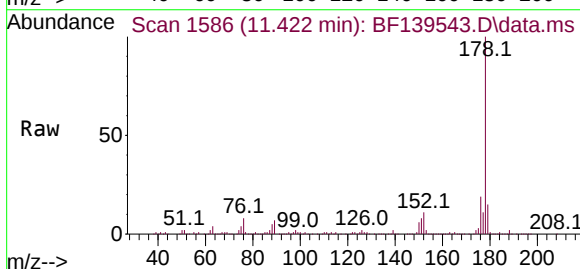
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ231

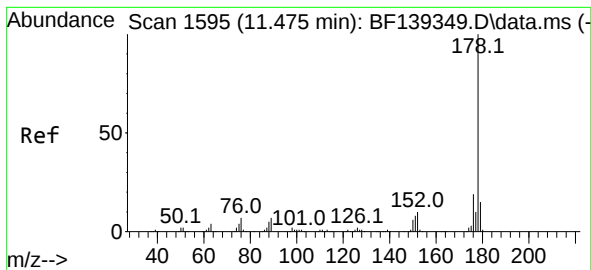
Tgt Ion:248 Resp: 5958  
Ion Ratio Lower Upper  
248 100  
250 206.8 77.6 116.4#  
141 575.2 66.9 100.3#



#71  
Phenanthrene  
Concen: 16.788 ng  
RT: 11.422 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

Tgt Ion:178 Resp: 151862  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.2 22.8  
179 15.2 12.2 18.4





#72

Anthracene

Concen: 5.886 ng

RT: 11.475 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

Instrument :

BNA\_F

ClientSampleId :

VNJ231

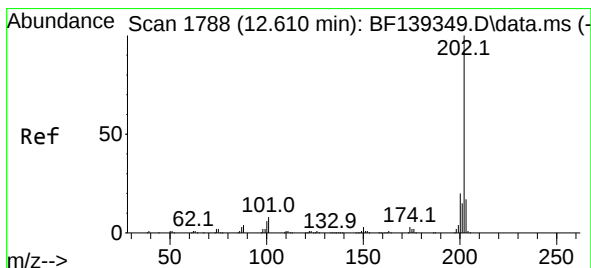
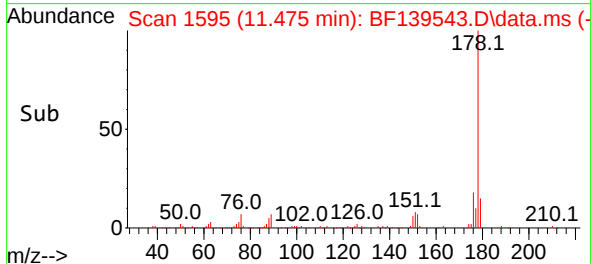
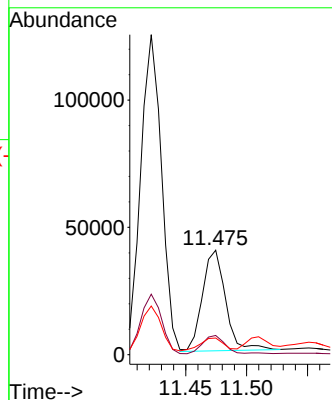
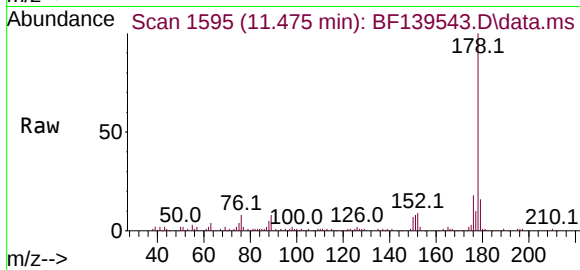
Tgt Ion:178 Resp: 52056

Ion Ratio Lower Upper

178 100

176 18.3 15.0 22.6

179 16.0 12.0 18.0



#75

Fluoranthene

Concen: 45.996 ng

RT: 12.616 min Scan# 1789

Delta R.T. 0.006 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

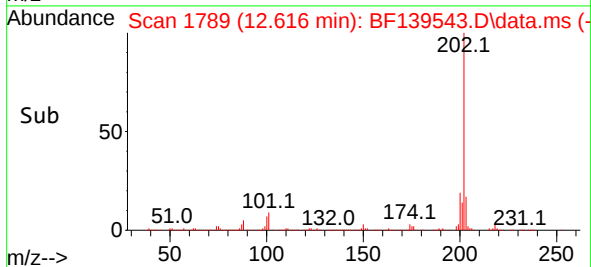
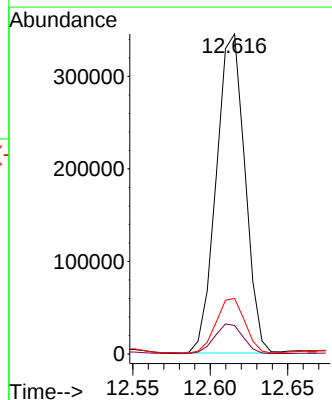
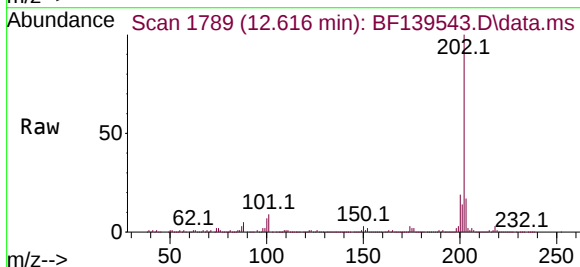
Tgt Ion:202 Resp: 444327

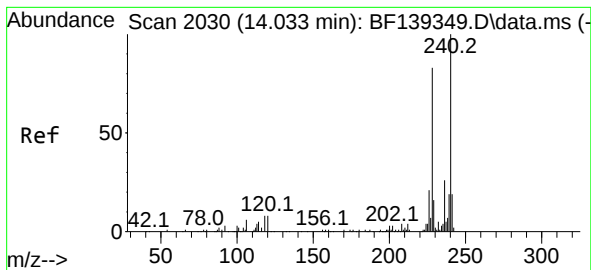
Ion Ratio Lower Upper

202 100

101 8.9 0.0 27.7

203 17.4 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2030

Delta R.T. 0.006 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

Instrument :

BNA\_F

ClientSampleId :

VNJ231

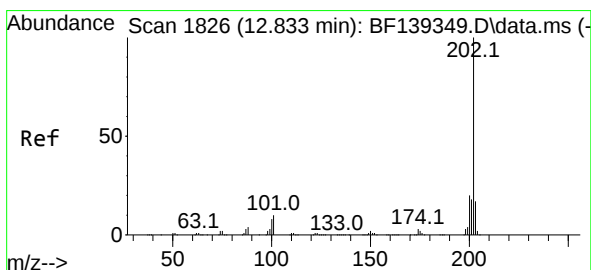
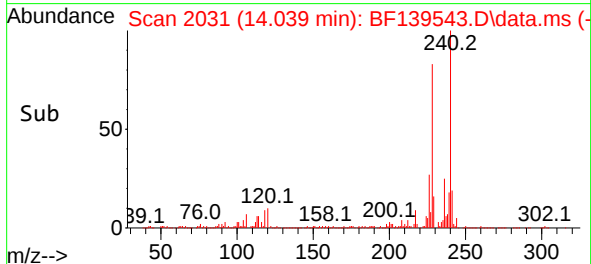
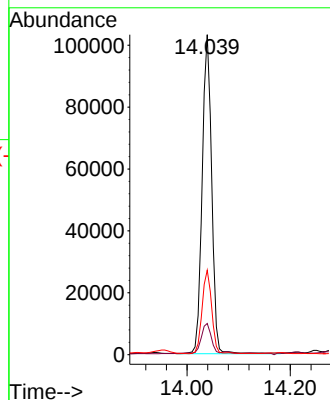
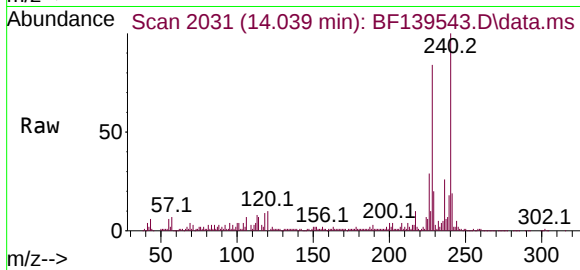
Tgt Ion:240 Resp: 131638

Ion Ratio Lower Upper

240 100

120 9.8 6.2 9.2#

236 26.4 20.9 31.3



#78

Pyrene

Concen: 42.917 ng

RT: 12.845 min Scan# 1828

Delta R.T. 0.012 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

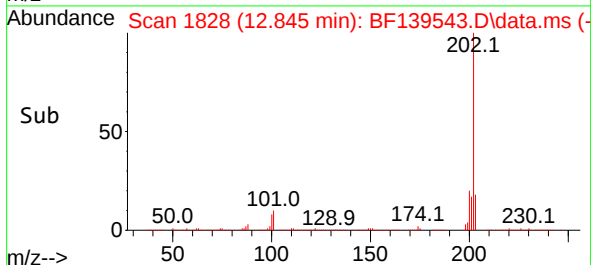
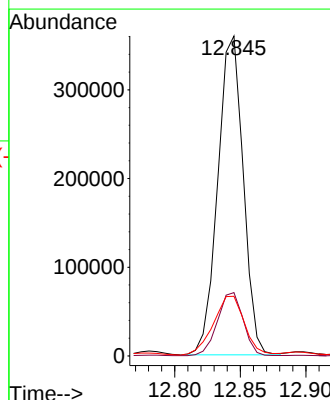
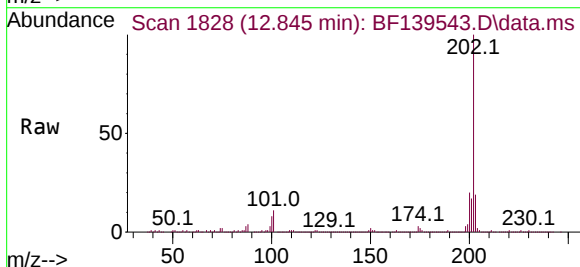
Tgt Ion:202 Resp: 485088

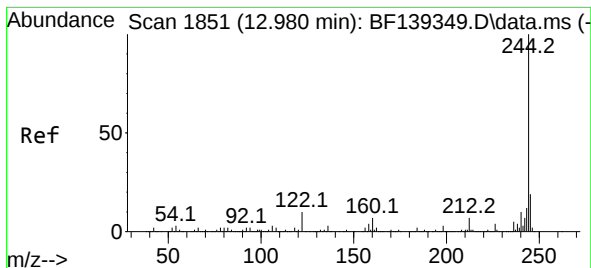
Ion Ratio Lower Upper

202 100

200 19.8 16.2 24.2

203 18.6 13.9 20.9





#79

Terphenyl-d14

Concen: 64.963 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.000 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

Instrument :

BNA\_F

ClientSampleId :

VNJ231

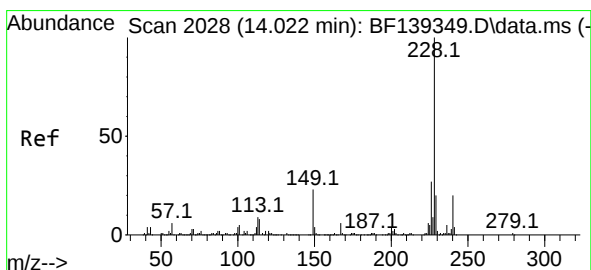
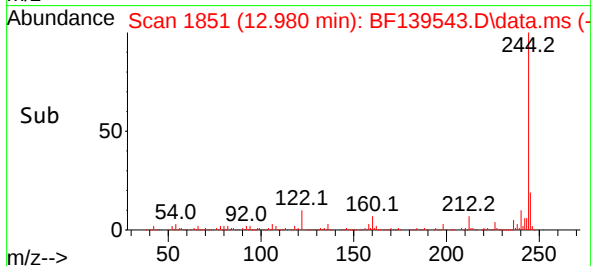
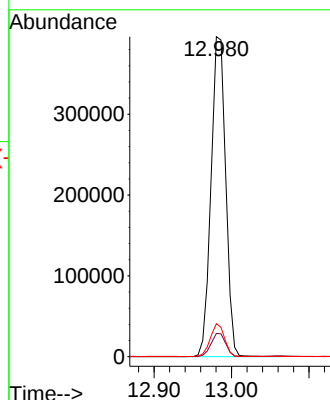
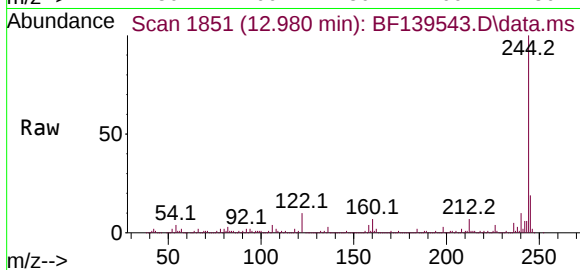
Tgt Ion:244 Resp: 520995

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

122 10.3 7.6 11.4



#81

Benzo(a)anthracene

Concen: 26.443 ng

RT: 14.027 min Scan# 2029

Delta R.T. 0.006 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

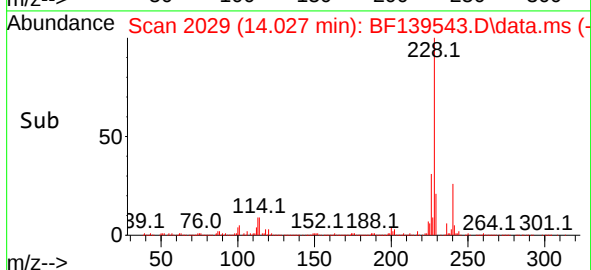
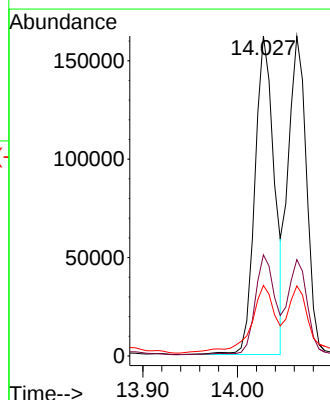
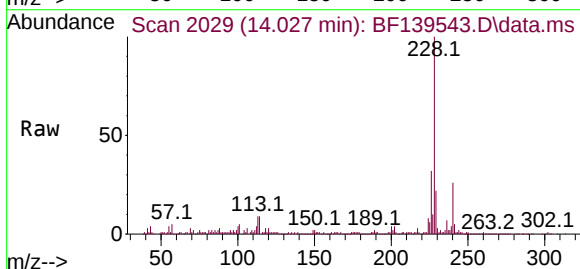
Tgt Ion:228 Resp: 230578

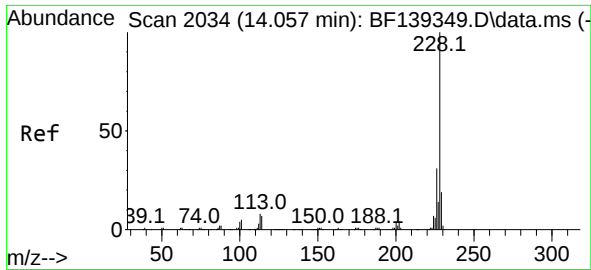
Ion Ratio Lower Upper

228 100

226 31.6 21.6 32.4

229 22.1 15.7 23.5

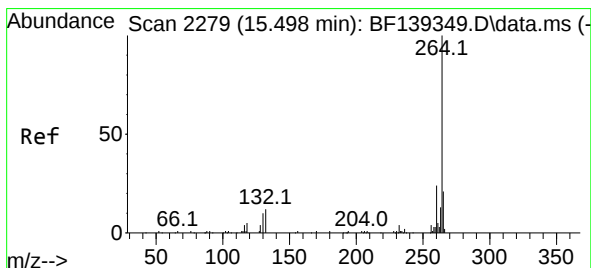
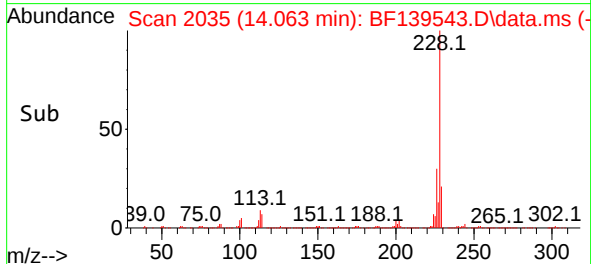
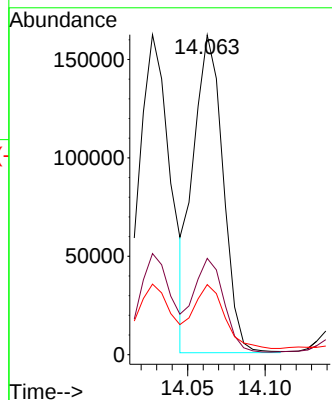
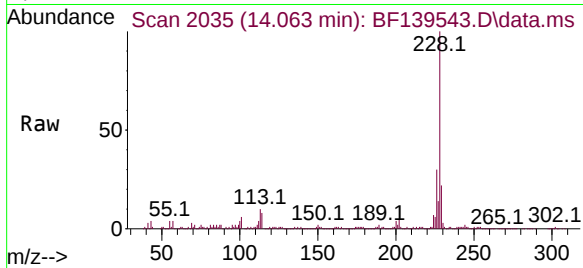




#83  
Chrysene  
Concen: 26.764 ng  
RT: 14.063 min Scan# 2034  
Delta R.T. 0.006 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

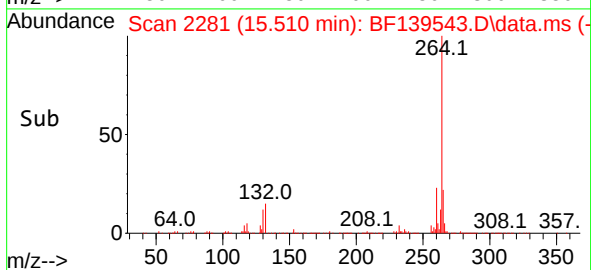
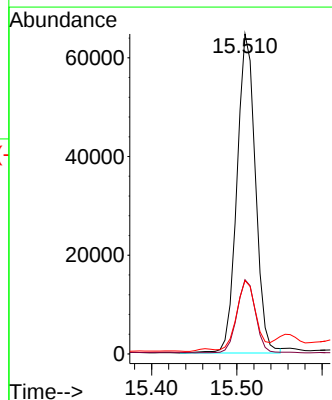
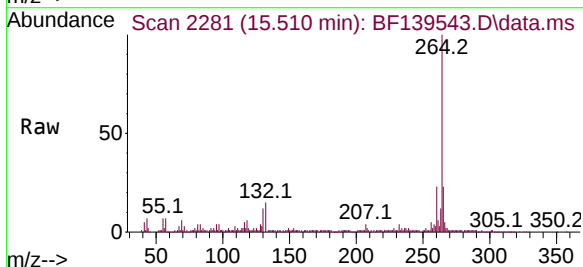
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ231

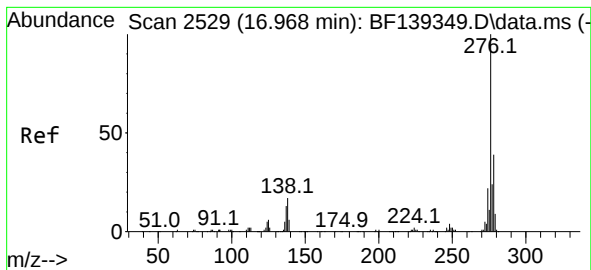
Tgt Ion:228 Resp: 214705  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.1 36.1  
229 21.9 15.4 23.0



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.510 min Scan# 2281  
Delta R.T. 0.012 min  
Lab File: BF139543.D  
Acq: 25 Sep 2024 22:08

Tgt Ion:264 Resp: 97474  
Ion Ratio Lower Upper  
264 100  
260 23.2 19.5 29.3  
265 23.0 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.179 ng

RT: 16.986 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

Instrument :

BNA\_F

ClientSampleId :

VNJ231

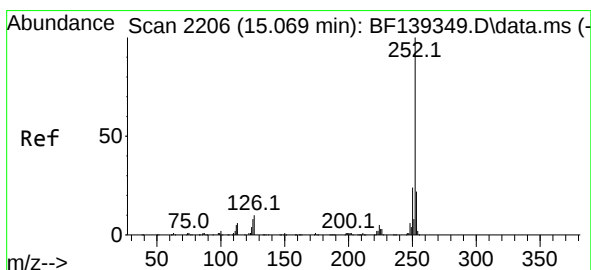
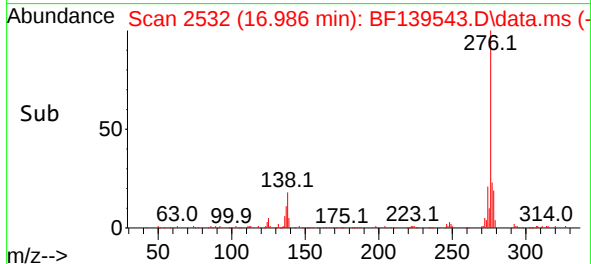
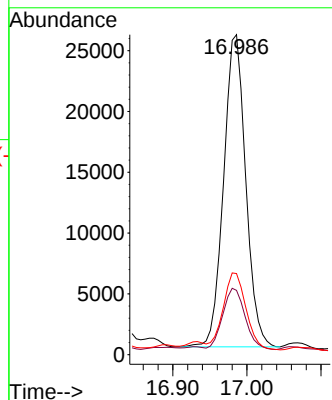
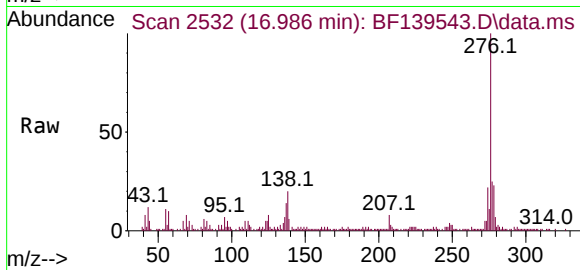
Tgt Ion:276 Resp: 53205

Ion Ratio Lower Upper

276 100

138 19.8 15.4 23.2

277 25.5 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 35.395 ng

RT: 15.080 min Scan# 2208

Delta R.T. 0.012 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

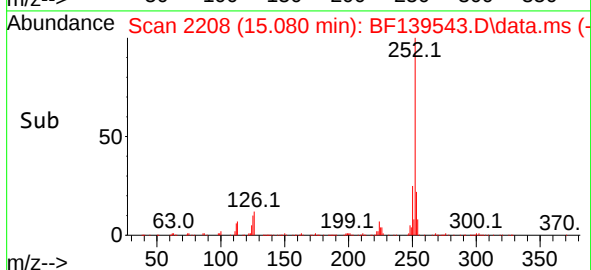
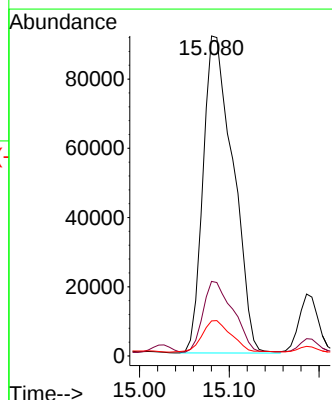
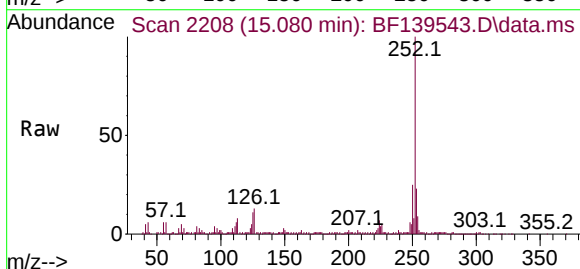
Tgt Ion:252 Resp: 212781

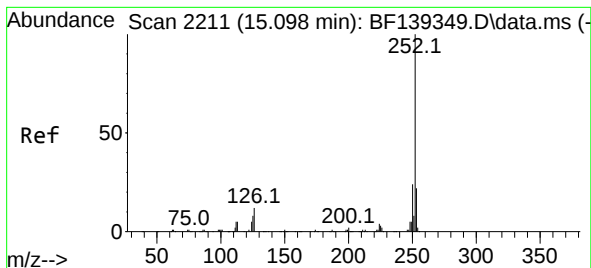
Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

125 11.0 6.2 9.2#





#89

Benzo(k)fluoranthene

Concen: 38.389 ng

RT: 15.080 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

Instrument :

BNA\_F

ClientSampleId :

VNJ231

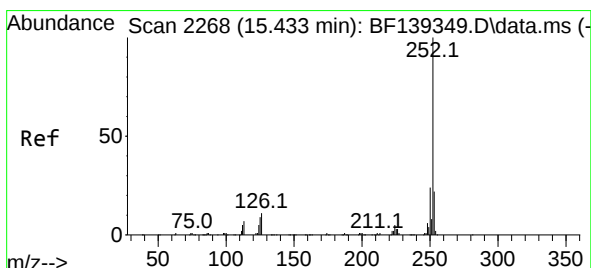
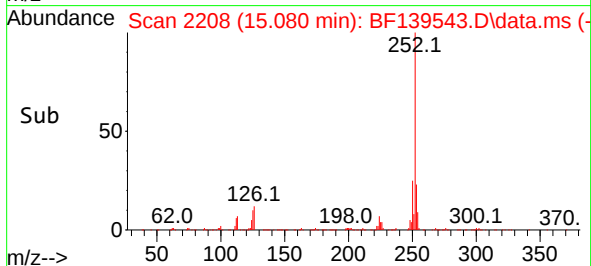
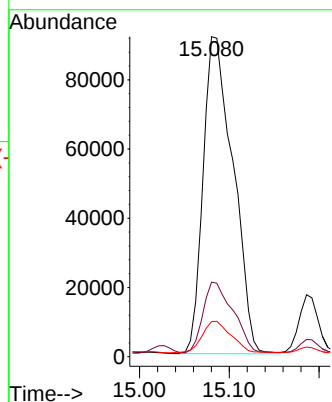
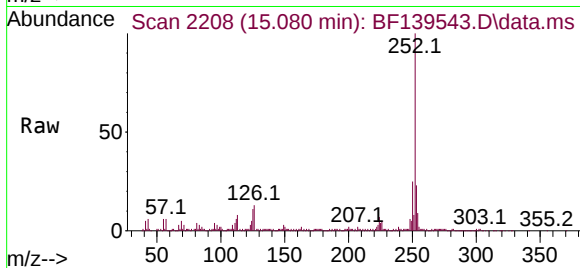
Tgt Ion:252 Resp: 212781

Ion Ratio Lower Upper

252 100

253 23.3 17.3 25.9

125 11.0 5.9 8.9#



#90

Benzo(a)pyrene

Concen: 23.052 ng

RT: 15.445 min Scan# 2270

Delta R.T. 0.012 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

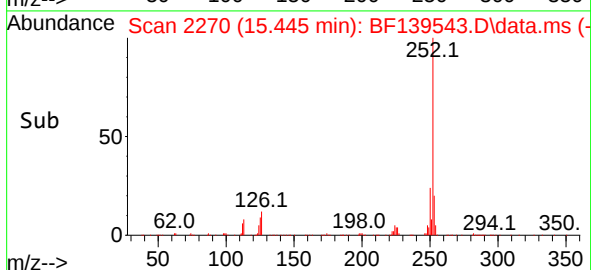
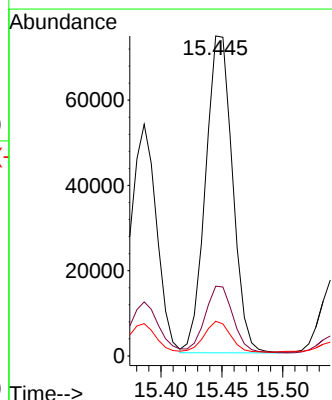
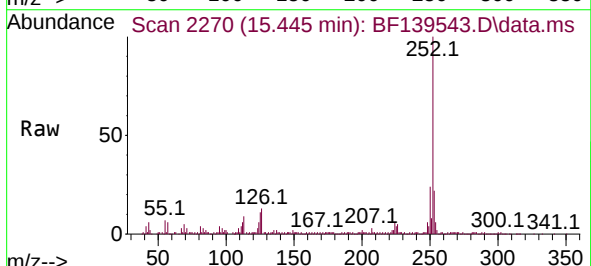
Tgt Ion:252 Resp: 114932

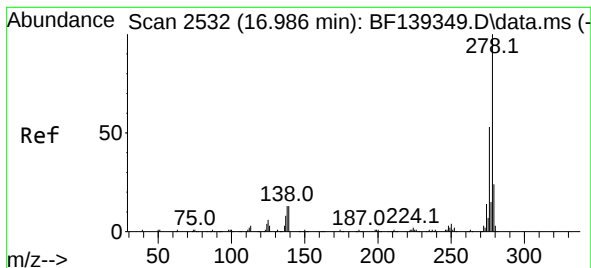
Ion Ratio Lower Upper

252 100

253 21.8 17.3 25.9

125 10.9 6.8 10.2#





#91

Dibenzo(a,h)anthracene

Concen: 2.831 ng

RT: 16.992 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

Instrument :

BNA\_F

ClientSampleId :

VNJ231

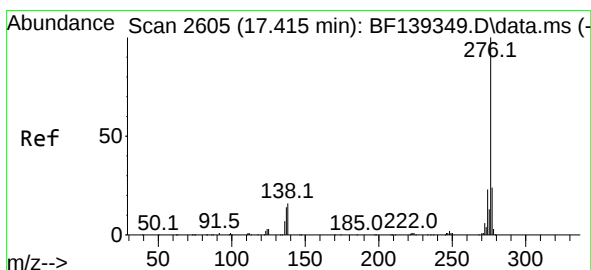
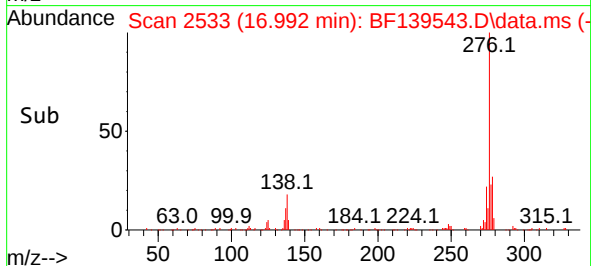
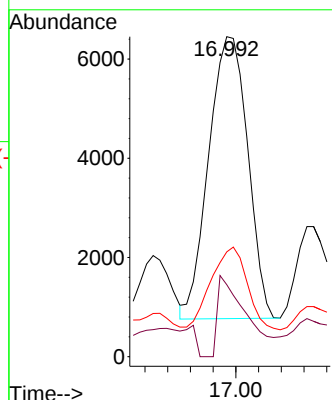
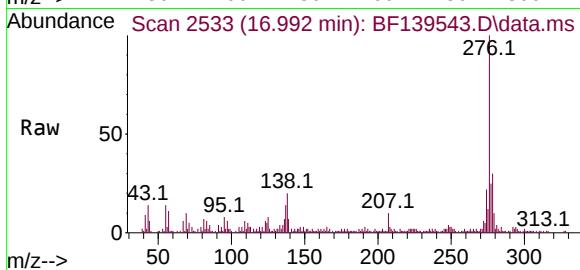
Tgt Ion:278 Resp: 13559

Ion Ratio Lower Upper

278 100

139 22.5 10.2 15.2#

279 32.7 18.9 28.3#



#92

Benzo(g,h,i)perylene

Concen: 11.714 ng

RT: 17.427 min Scan# 2607

Delta R.T. 0.012 min

Lab File: BF139543.D

Acq: 25 Sep 2024 22:08

Tgt Ion:276 Resp: 55552

Ion Ratio Lower Upper

276 100

277 24.6 18.9 28.3

138 20.4 13.0 19.6#

