

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121823\  
 Data File : BF136625.D  
 Acq On : 18 Dec 2023 20:45  
 Operator : CG\JU  
 Sample : 05726-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1RE

Quant Time: Dec 19 01:06:48 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 19 00:56:37 2023  
 Response via : Initial Calibration

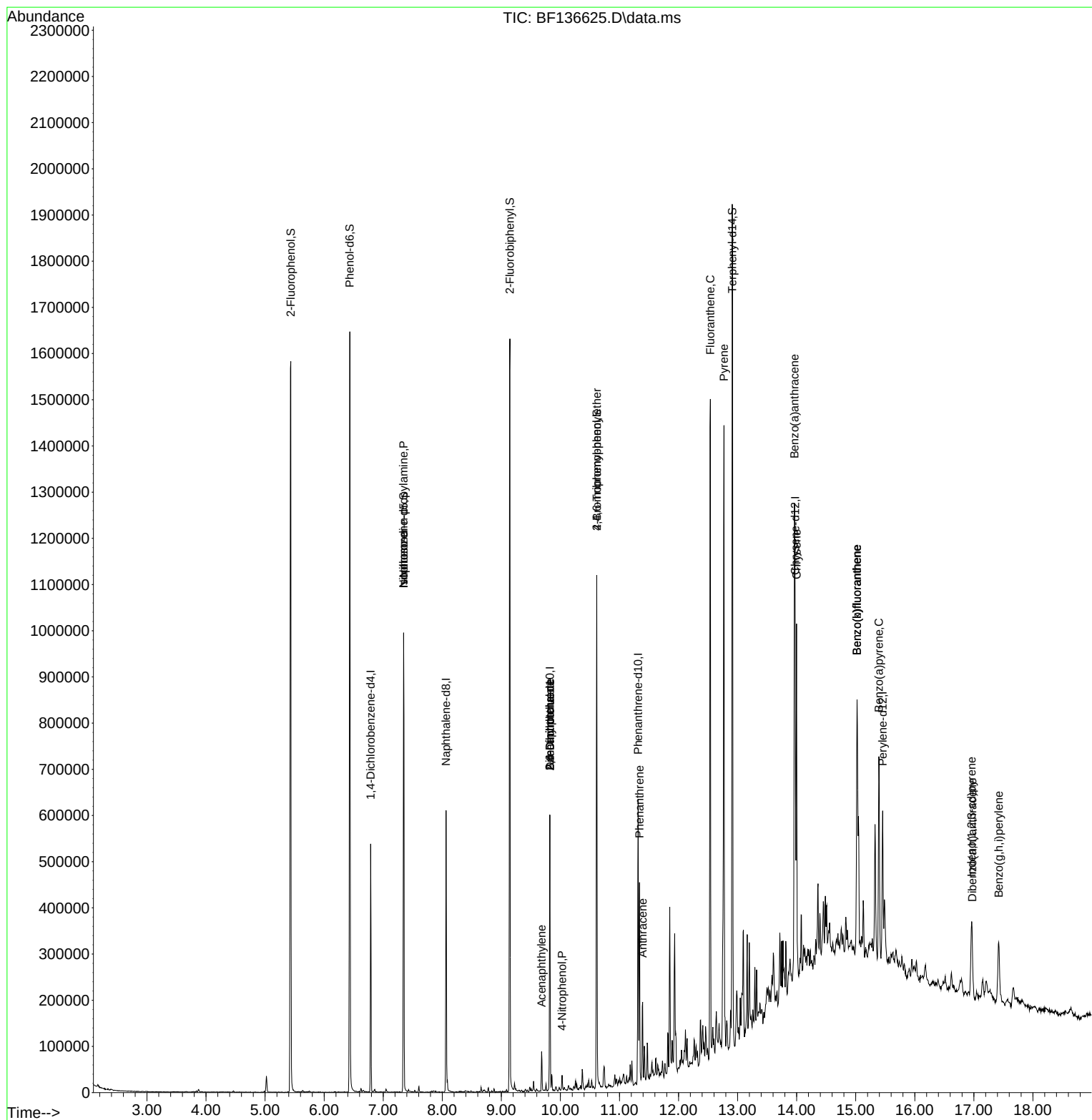
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.787  | 152  | 72779    | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.063  | 136  | 247730   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.822  | 164  | 110672   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.316 | 188  | 223386   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 13.974 | 240  | 198384   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 15.457 | 264  | 147058   | 20.000    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.434  | 112  | 487285   | 98.880    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.434  | 99   | 542863   | 88.292    | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.345  | 82   | 321516   | 70.162    | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.616 | 330  | 133763   | 98.024    | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.145  | 172  | 523311   | 64.520    | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.910 | 244  | 651549   | 43.288    | ng    | -0.01    |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.346  | 77   | 167      | Below Cal | #     | 61       |
| 19) n-Nitroso-di-n-propyla... | 7.345  | 70   | 41017    | 11.565    | ng    | # 76     |
| 25) Isophorone                | 7.345  | 82   | 320385   | 38.915    | ng    | # 65     |
| 49) Acenaphthylene            | 9.681  | 152  | 33899    | 3.247     | ng    | # 94     |
| 50) Dimethylphthalate         | 9.822  | 163  | 22260    | 2.732     | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.822  | 165  | 14399    | 7.855     | ng    | # 29     |
| 56) 4-Nitrophenol             | 10.028 | 139  | 3018     | 2.151     | ng    | # 15     |
| 57) 2,4-Dinitrotoluene        | 9.822  | 165  | 14399    | 5.938     | ng    | # 28     |
| 67) 4-Bromophenyl-phenylether | 10.616 | 248  | 8831     | 3.400     | ng    | # 1      |
| 71) Phenanthrene              | 11.339 | 178  | 152136   | 12.391    | ng    | 98       |
| 72) Anthracene                | 11.392 | 178  | 69231    | 5.598     | ng    | 98       |
| 75) Fluoranthene              | 12.539 | 202  | 603181   | 46.878    | ng    | 99       |
| 77) Benzidine                 | 12.722 | 184  | 743      | Below Cal | #     | 1        |
| 78) Pyrene                    | 12.769 | 202  | 553279   | 28.477    | ng    | 97       |
| 81) Benzo(a)anthracene        | 13.963 | 228  | 332739   | 24.079    | ng    | 94       |
| 83) Chrysene                  | 13.998 | 228  | 283678   | 20.865    | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.962 | 276  | 122040   | 11.945    | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 15.021 | 252  | 422870   | 42.057    | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 15.021 | 252  | 422870   | 44.627    | ng    | # 96     |
| 90) Benzo(a)pyrene            | 15.392 | 252  | 220035   | 26.499    | ng    | 95       |
| 91) Dibenzo(a,h)anthracene    | 16.974 | 278  | 31934    | 3.815     | ng    | # 86     |
| 92) Benzo(g,h,i)perylene      | 17.421 | 276  | 112963   | 13.150    | ng    | 98       |
| -----                         |        |      |          |           |       |          |

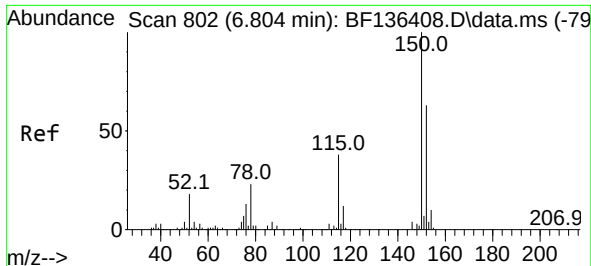
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121823\  
Data File : BF136625.D  
Acq On : 18 Dec 2023 20:45  
Operator : CG\JU  
Sample : 05726-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

Quant Time: Dec 19 01:06:48 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 19 00:56:37 2023  
Response via : Initial Calibration

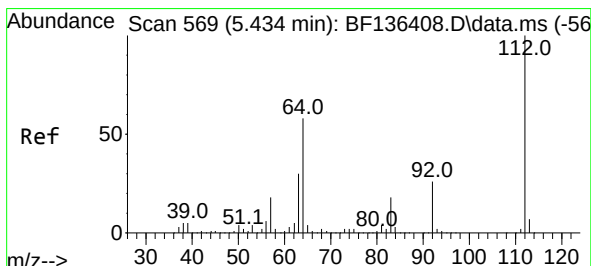
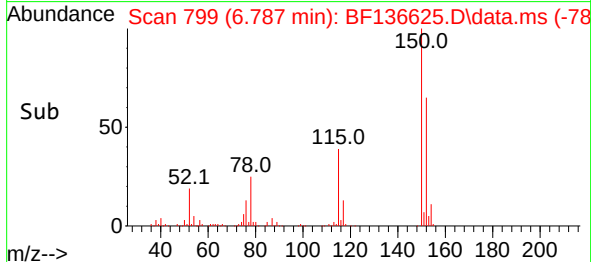
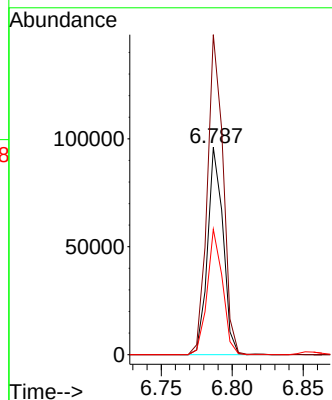
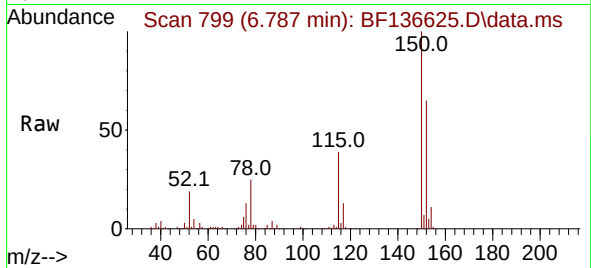




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.787 min Scan# 79  
Delta R.T. -0.005 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

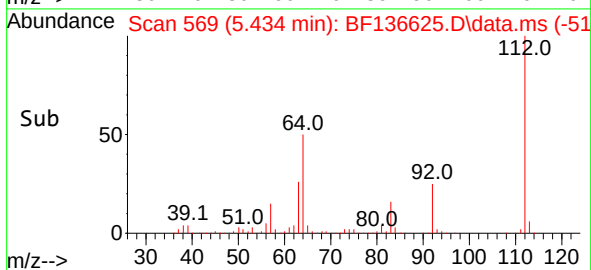
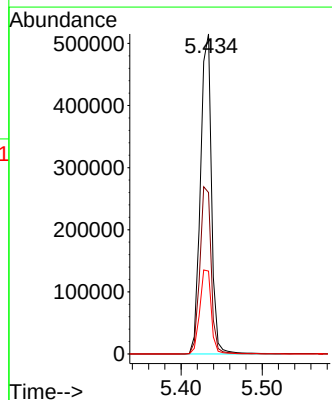
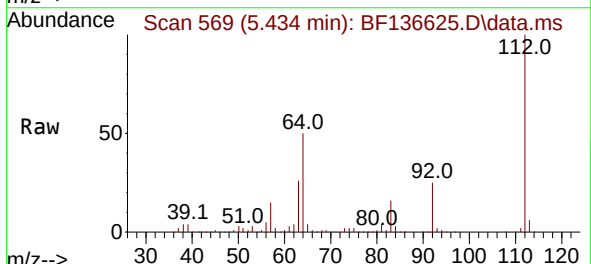
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

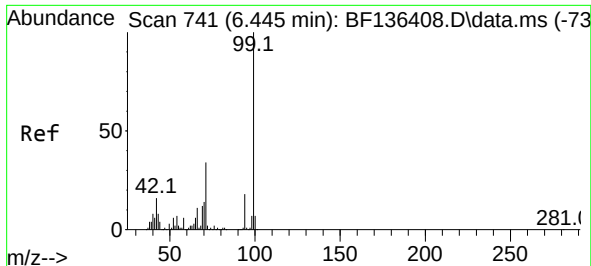
Tgt Ion:152 Resp: 72779  
Ion Ratio Lower Upper  
152 100  
150 154.3 126.4 189.6  
115 60.5 48.2 72.4



#5  
2-Fluorophenol  
Concen: 98.880 ng  
RT: 5.434 min Scan# 569  
Delta R.T. 0.006 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Tgt Ion:112 Resp: 487285  
Ion Ratio Lower Upper  
112 100  
64 50.5 46.5 69.7  
63 25.9 23.9 35.9

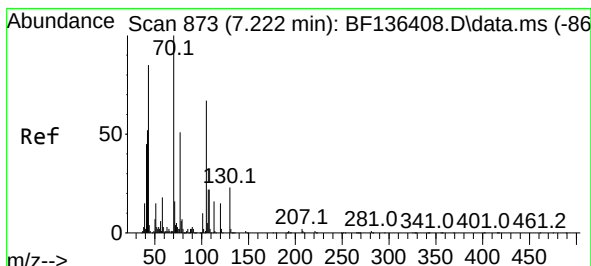
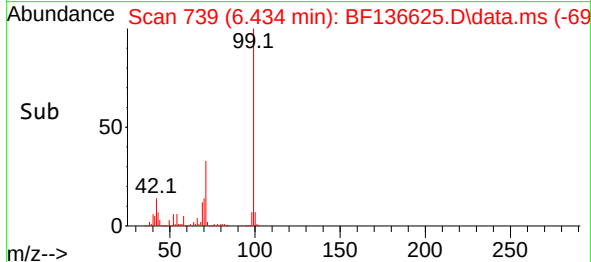
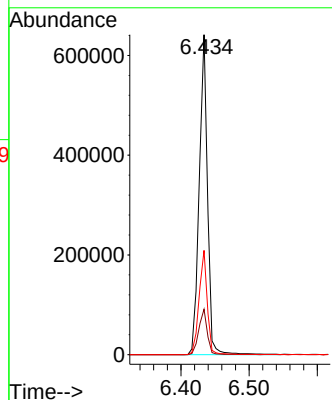
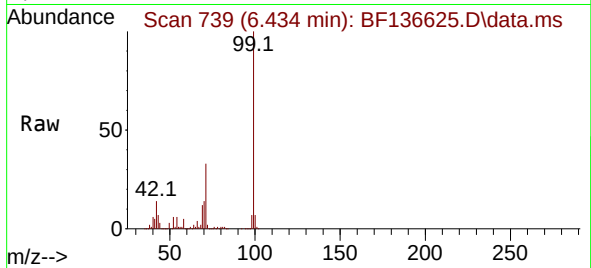




#7  
Phenol-d6  
Concen: 88.292 ng  
RT: 6.434 min Scan# 741  
Delta R.T. -0.012 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

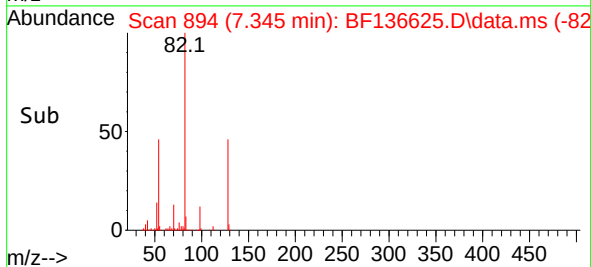
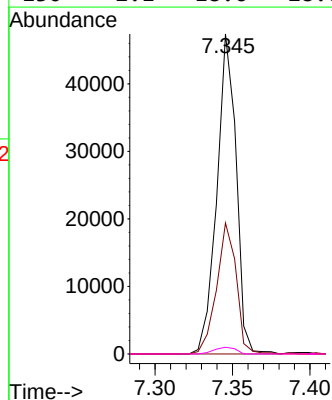
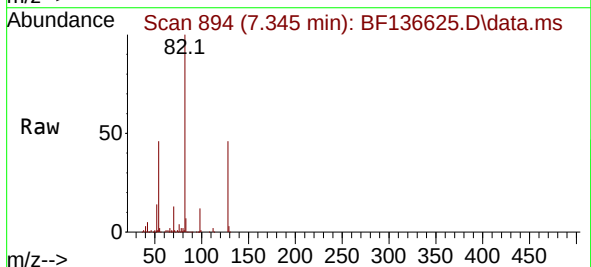
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

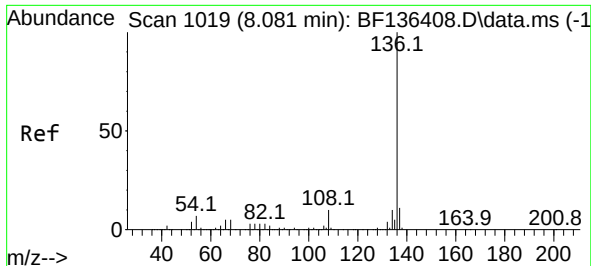
Tgt Ion: 99 Resp: 542863  
Ion Ratio Lower Upper  
99 100  
42 14.2 12.8 19.2  
71 32.6 27.0 40.4



#19  
n-Nitroso-di-n-propylamine  
Concen: 11.565 ng  
RT: 7.345 min Scan# 894  
Delta R.T. 0.135 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Tgt Ion: 70 Resp: 41017  
Ion Ratio Lower Upper  
70 100  
42 41.0 41.4 62.0#  
101 0.0 8.2 12.4#  
130 2.1 18.6 28.0#



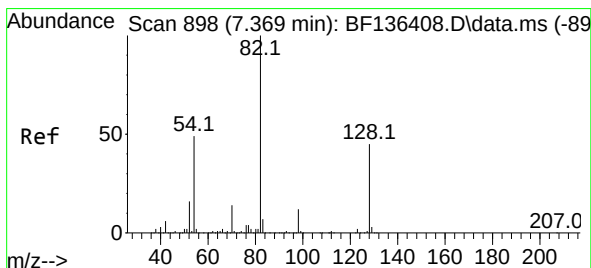
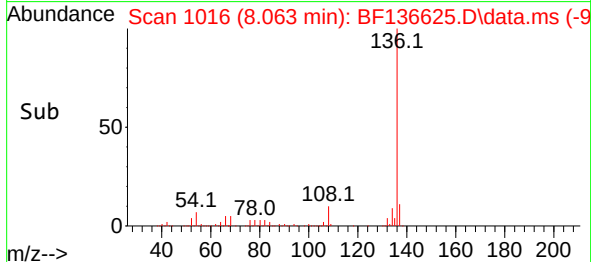
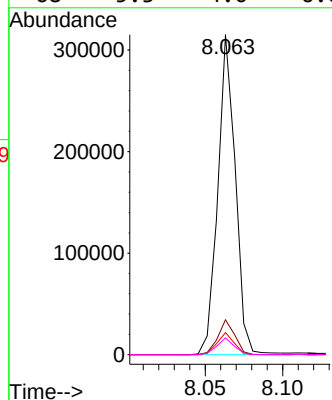
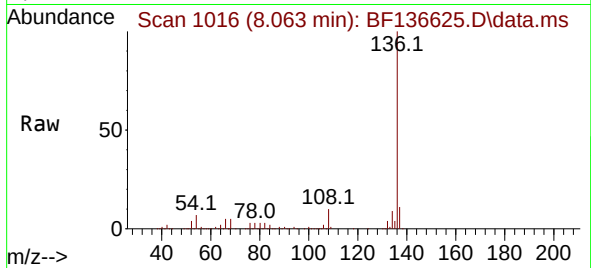


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.063 min Scan# 1016  
Delta R.T. -0.006 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

Tgt Ion:136 Resp: 247730

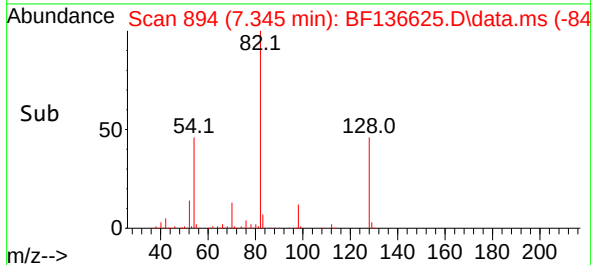
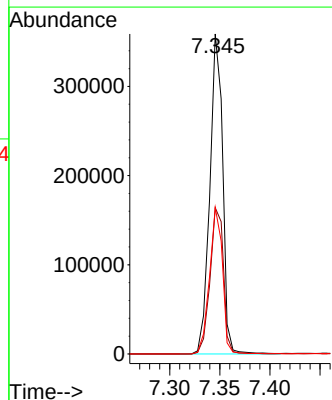
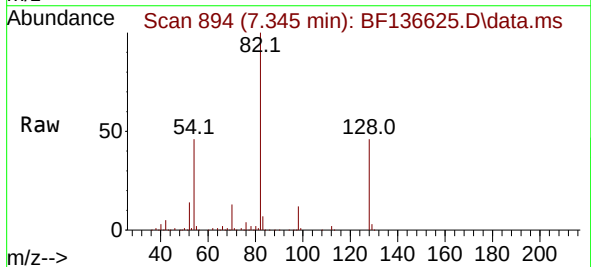
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 8.6   | 12.8  |
| 54  | 6.9   | 5.7   | 8.5   |
| 68  | 5.3   | 4.0   | 6.0   |

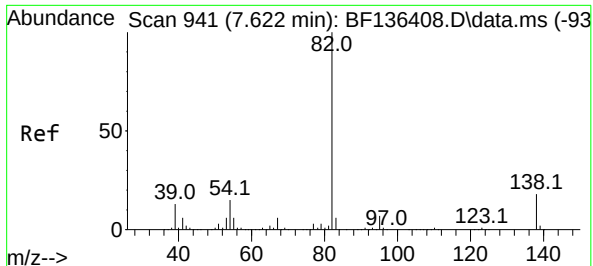


#23  
Nitrobenzene-d5  
Concen: 70.162 ng  
RT: 7.345 min Scan# 894  
Delta R.T. -0.012 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Tgt Ion: 82 Resp: 321516

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 45.7  | 36.3  | 54.5  |
| 54  | 45.8  | 39.0  | 58.6  |

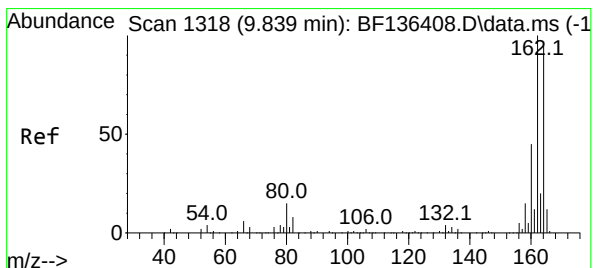
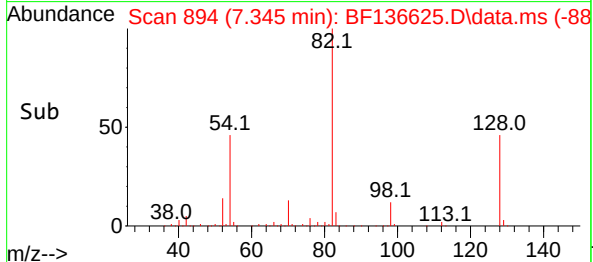
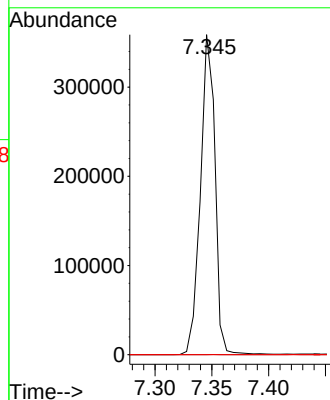
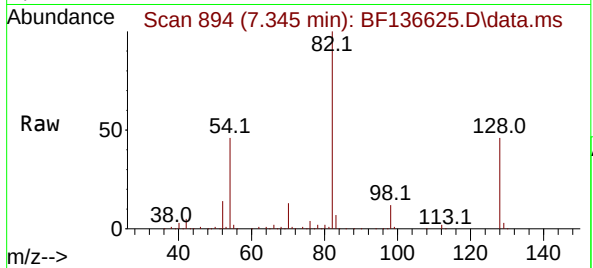




#25  
Isophorone  
Concen: 38.915 ng  
RT: 7.345 min Scan# 894  
Delta R.T. -0.270 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

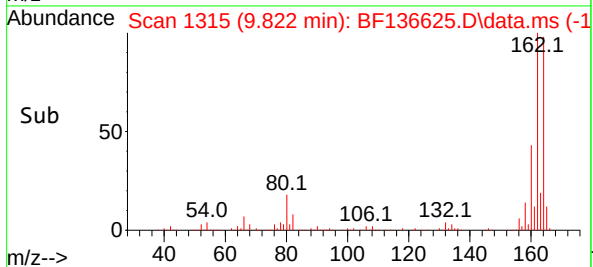
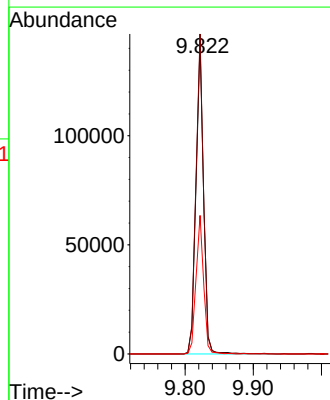
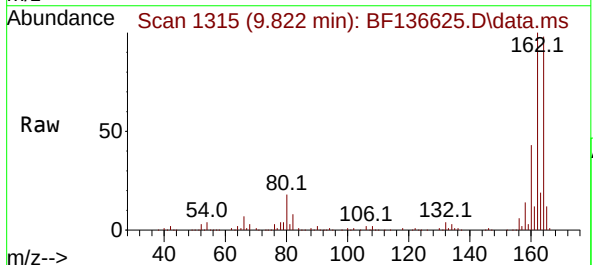
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

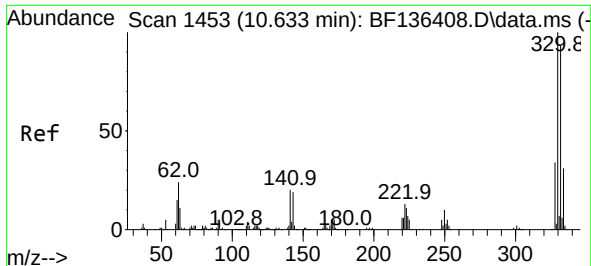
Tgt Ion: 82 Resp: 320385  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 14.5 21.7#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.822 min Scan# 1315  
Delta R.T. -0.006 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Tgt Ion:164 Resp: 110672  
Ion Ratio Lower Upper  
164 100  
162 102.2 84.4 126.6  
160 44.2 37.6 56.4





#42

2,4,6-Tribromophenol

Concen: 98.024 ng

RT: 10.616 min Scan# 1453

Delta R.T. -0.012 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

Instrument :

BNA\_F

ClientSampleId :

WC-1RE

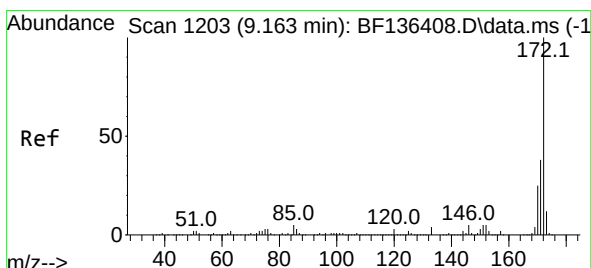
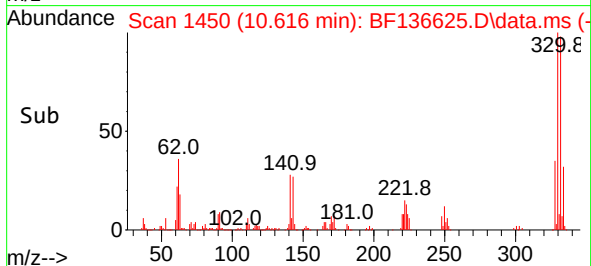
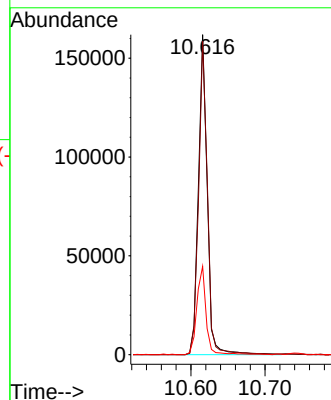
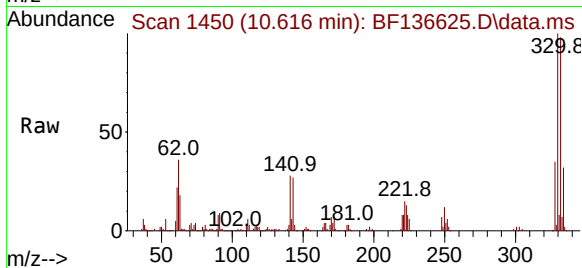
Tgt Ion:330 Resp: 133763

Ion Ratio Lower Upper

330 100

332 98.1 76.4 114.6

141 29.1 23.4 35.2



#45

2-Fluorobiphenyl

Concen: 64.520 ng

RT: 9.145 min Scan# 1200

Delta R.T. -0.006 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

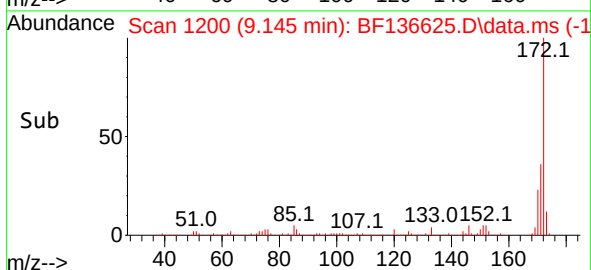
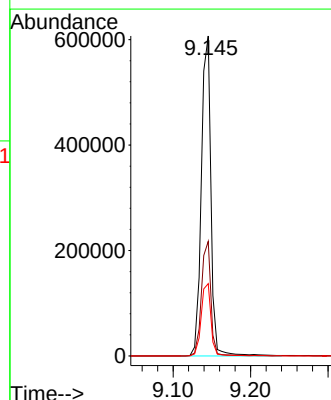
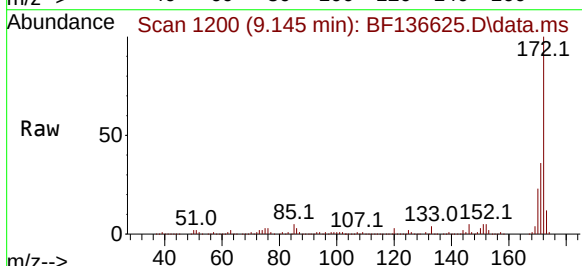
Tgt Ion:172 Resp: 523311

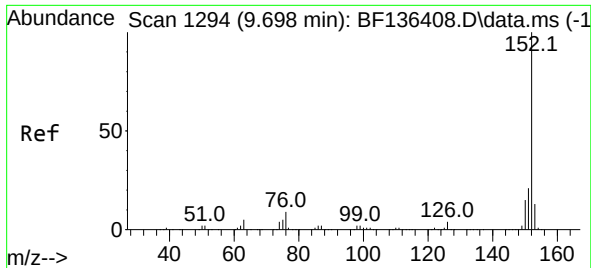
Ion Ratio Lower Upper

172 100

171 35.8 30.5 45.7

170 22.6 19.9 29.9





#49

Acenaphthylene

Concen: 3.247 ng

RT: 9.681 min Scan# 1315

Delta R.T. -0.012 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

Instrument :

BNA\_F

ClientSampleId :

WC-1RE

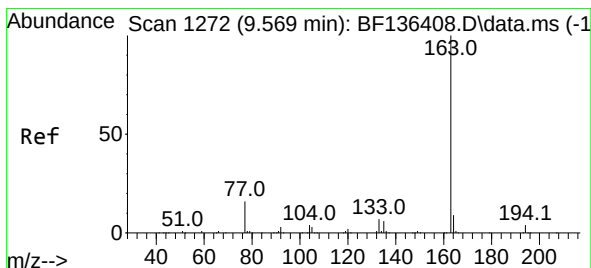
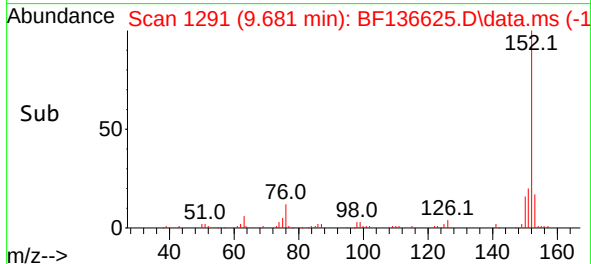
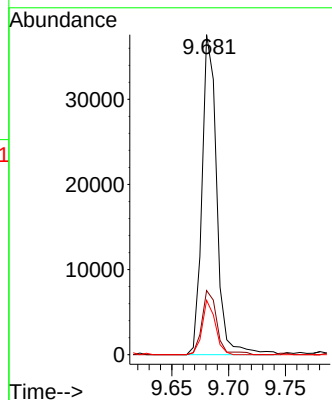
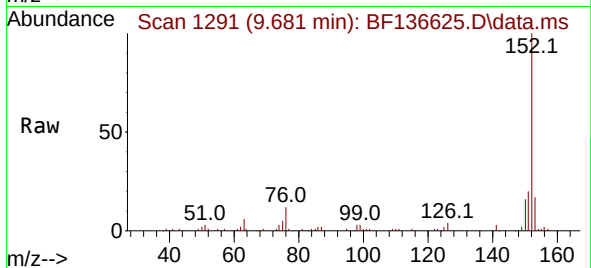
Tgt Ion:152 Resp: 33899

Ion Ratio Lower Upper

152 100

151 20.0 17.2 25.8

153 17.0 10.6 15.8#



#50

Dimethylphthalate

Concen: 2.732 ng

RT: 9.822 min Scan# 1315

Delta R.T. 0.265 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

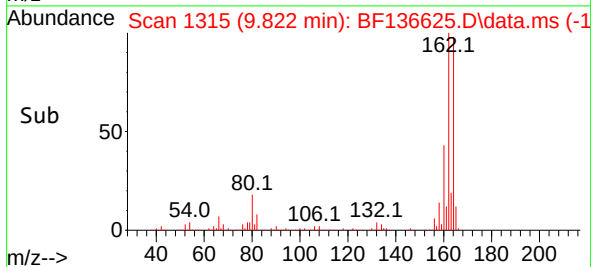
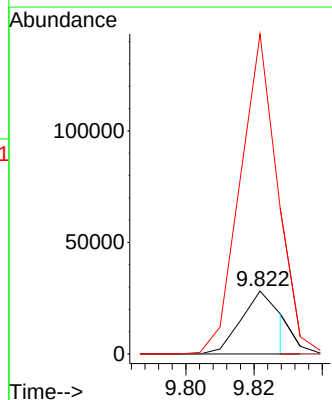
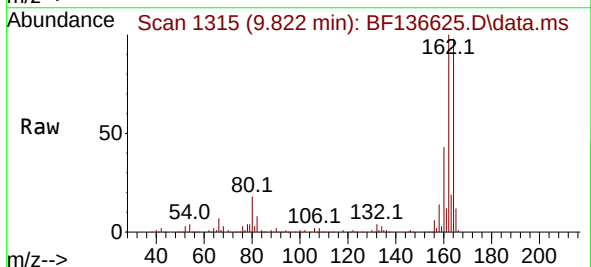
Tgt Ion:163 Resp: 22260

Ion Ratio Lower Upper

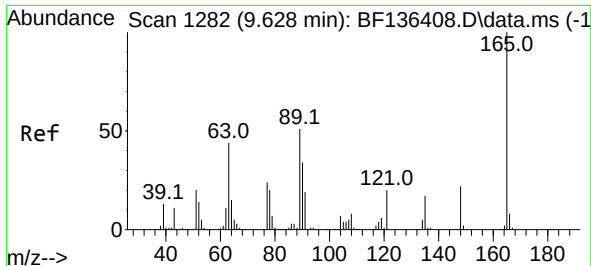
163 100

194 0.0 3.0 4.6#

164 509.0 7.4 11.2#







#51

2,6-Dinitrotoluene

Concen: 7.855 ng

RT: 9.822 min Scan# 11

Delta R.T. 0.200 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

Instrument :

BNA\_F

ClientSampleId :

WC-1RE

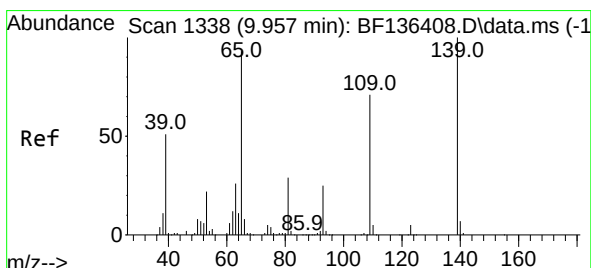
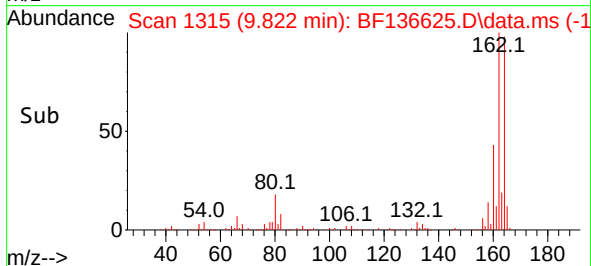
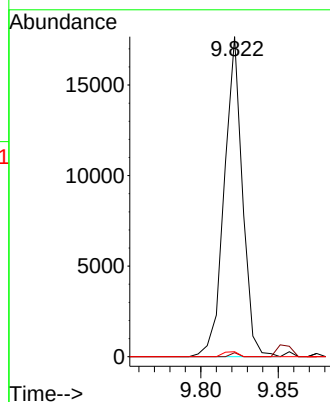
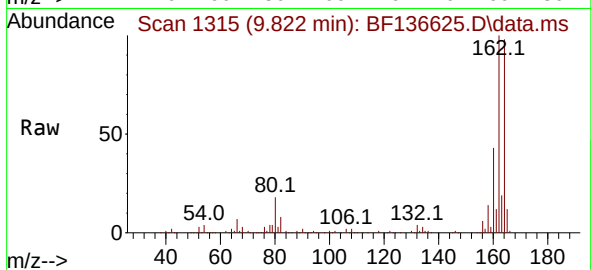
Tgt Ion:165 Resp: 14399

Ion Ratio Lower Upper

165 100

63 1.3 40.4 60.6#

89 1.5 40.6 60.8#



#56

4-Nitrophenol

Concen: 2.151 ng

RT: 10.028 min Scan# 1350

Delta R.T. 0.065 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

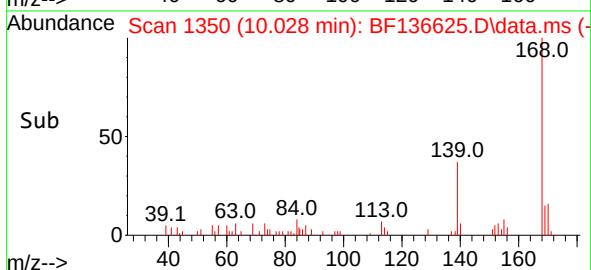
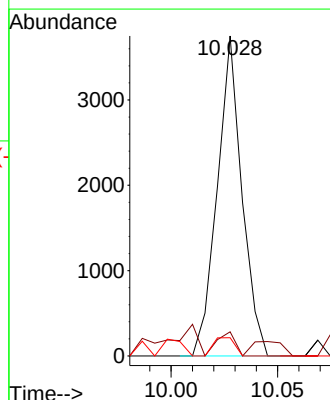
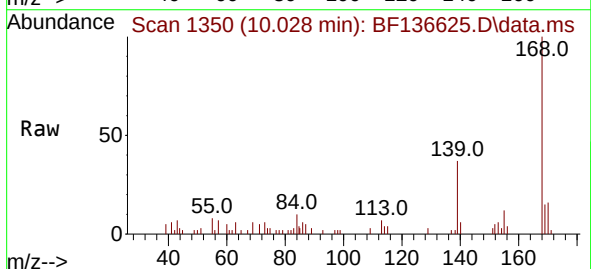
Tgt Ion:139 Resp: 3018

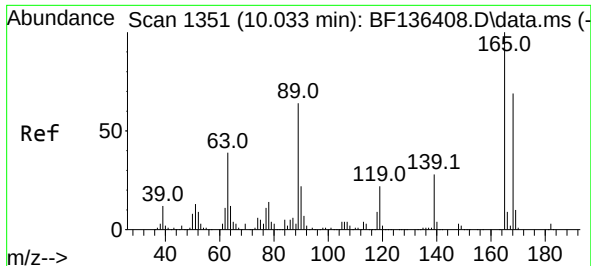
Ion Ratio Lower Upper

139 100

109 7.5 50.6 90.6#

65 5.7 73.1 113.1#

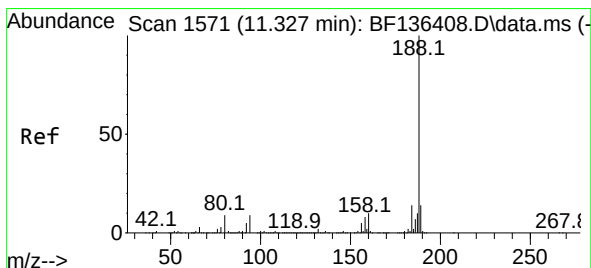
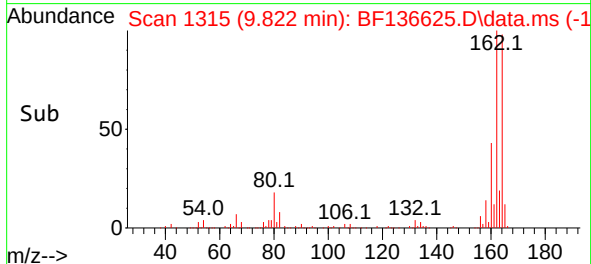
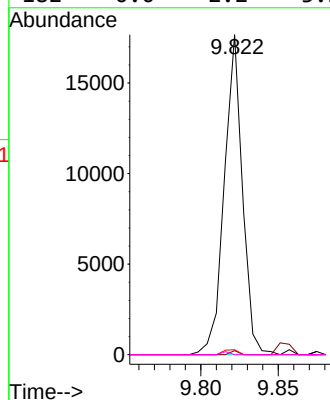
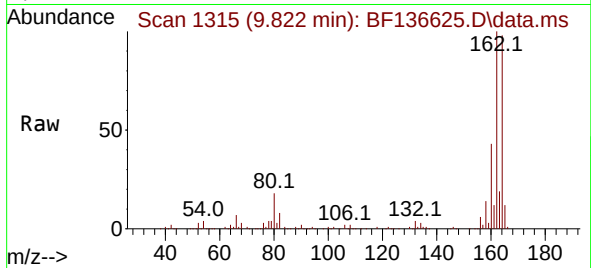




#57  
2,4-Dinitrotoluene  
Concen: 5.938 ng  
RT: 9.822 min Scan# 11  
Delta R.T. -0.206 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

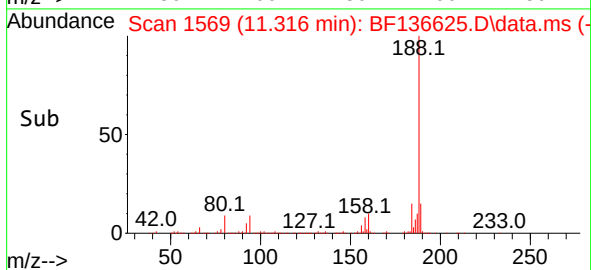
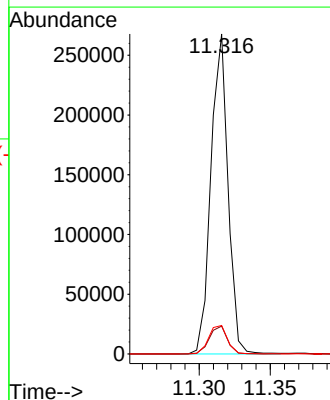
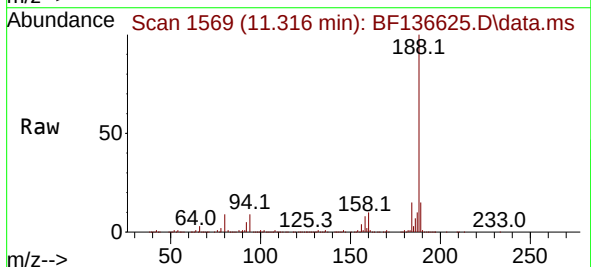
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

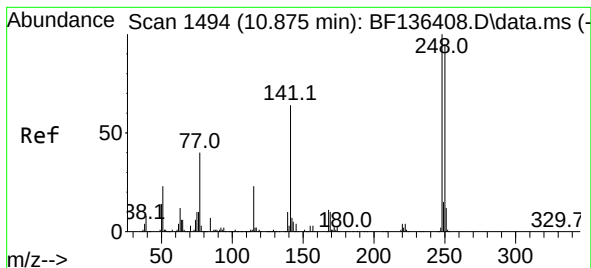
Tgt Ion:165 Resp: 14399  
Ion Ratio Lower Upper  
165 100  
63 1.3 31.4 47.2#  
89 1.5 51.7 77.5#  
182 0.0 2.2 3.2#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.316 min Scan# 1569  
Delta R.T. -0.006 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Tgt Ion:188 Resp: 223386  
Ion Ratio Lower Upper  
188 100  
94 8.7 7.2 10.8  
80 8.9 7.2 10.8

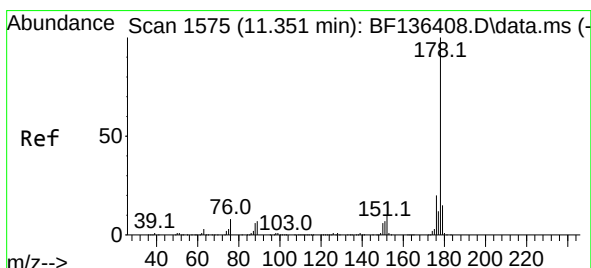
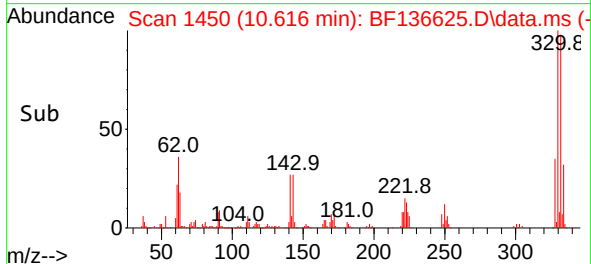
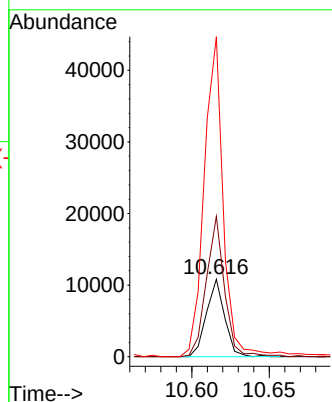
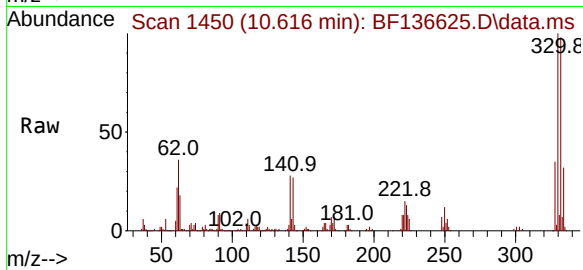




#67  
4-Bromophenyl-phenylether  
Concen: 3.400 ng  
RT: 10.616 min Scan# 1494  
Delta R.T. -0.247 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

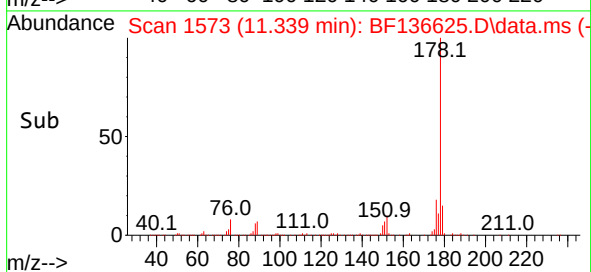
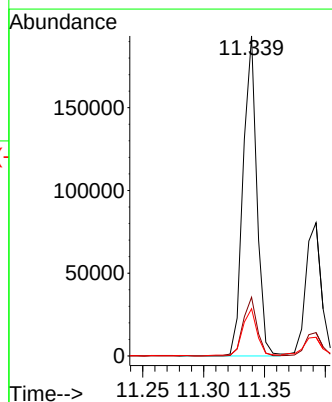
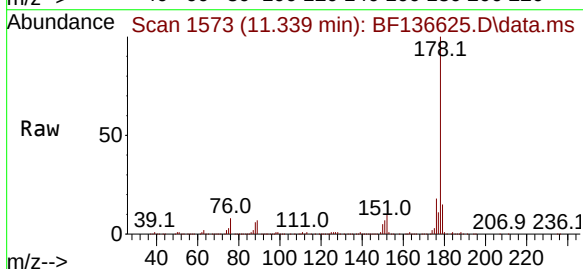
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

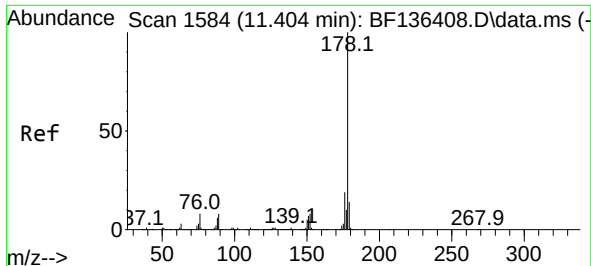
Tgt Ion:248 Resp: 8831  
Ion Ratio Lower Upper  
248 100  
250 181.3 76.2 114.2#  
141 413.6 51.0 76.4#



#71  
Phenanthrene  
Concen: 12.391 ng  
RT: 11.339 min Scan# 1573  
Delta R.T. -0.006 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Tgt Ion:178 Resp: 152136  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.9 23.9  
179 14.7 11.8 17.6

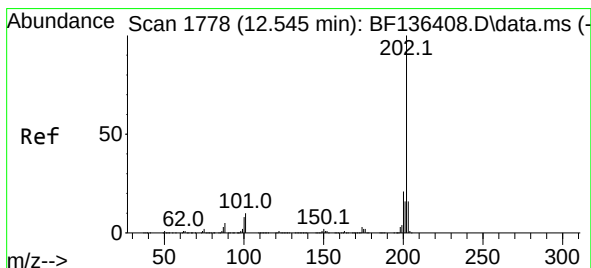
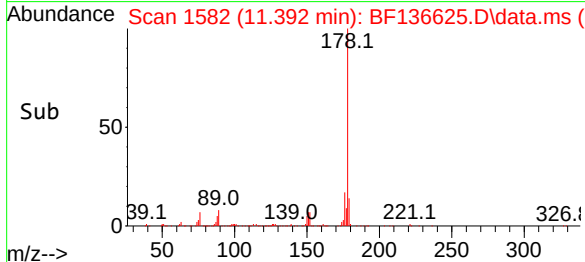
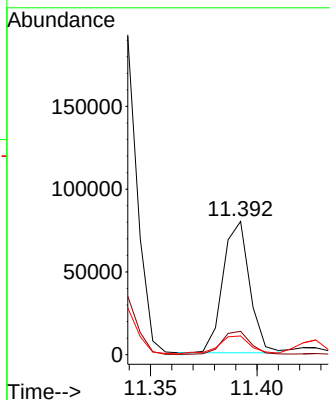
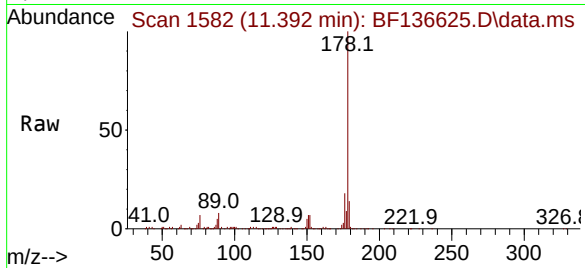




#72  
 Anthracene  
 Concen: 5.598 ng  
 RT: 11.392 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF136625.D  
 Acq: 18 Dec 2023 20:45

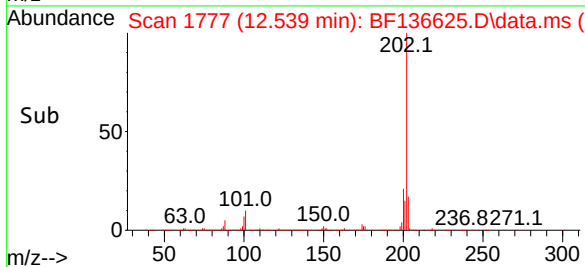
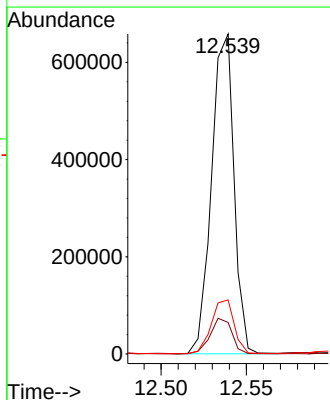
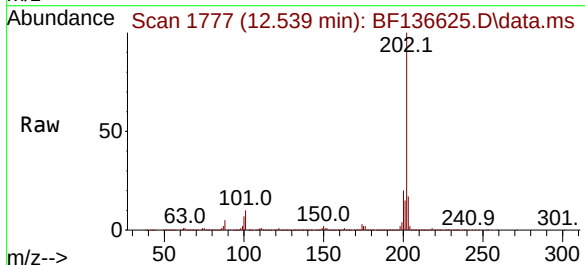
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1RE

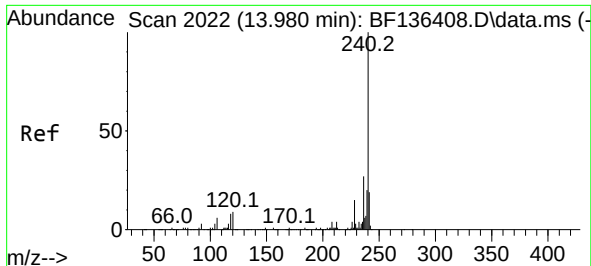
Tgt Ion:178 Resp: 69231  
 Ion Ratio Lower Upper  
 178 100  
 176 17.5 15.3 22.9  
 179 14.1 11.4 17.0



#75  
 Fluoranthene  
 Concen: 46.878 ng  
 RT: 12.539 min Scan# 1777  
 Delta R.T. 0.000 min  
 Lab File: BF136625.D  
 Acq: 18 Dec 2023 20:45

Tgt Ion:202 Resp: 603181  
 Ion Ratio Lower Upper  
 202 100  
 101 9.8 0.0 29.9  
 203 16.9 0.0 36.3

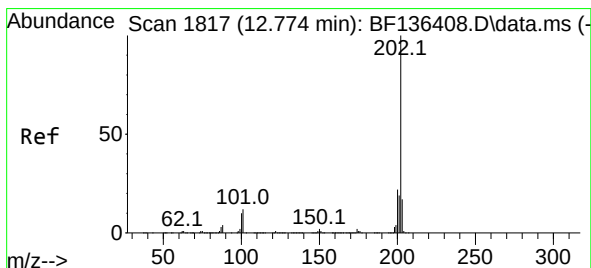
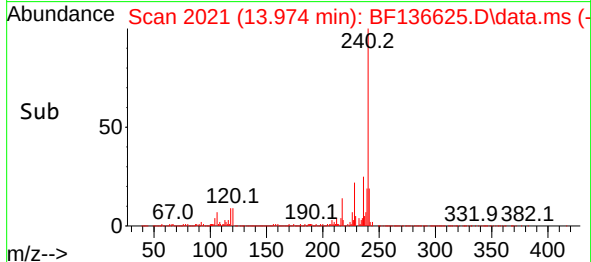
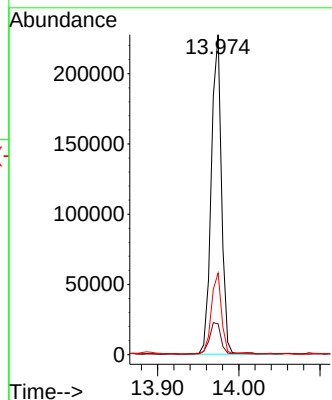
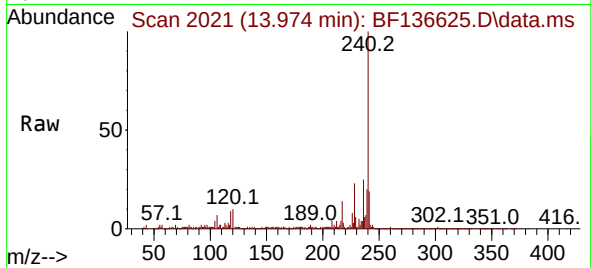




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.974 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

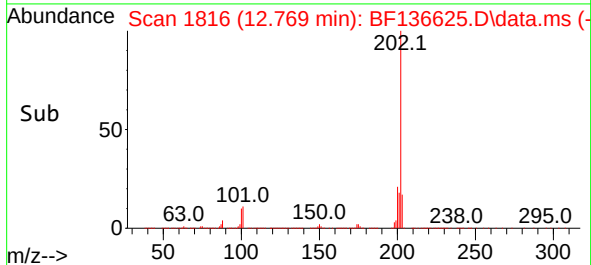
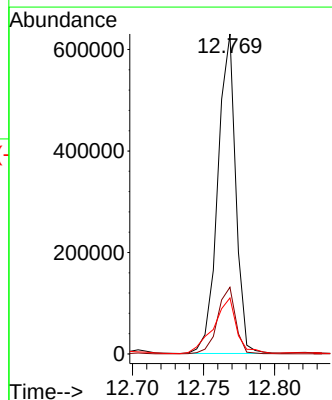
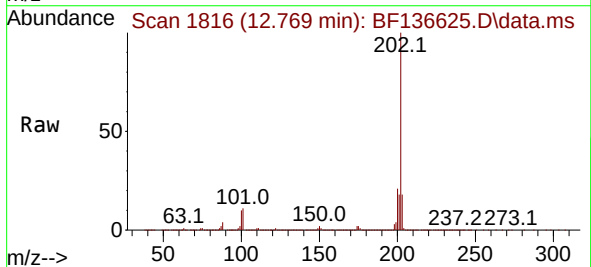
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

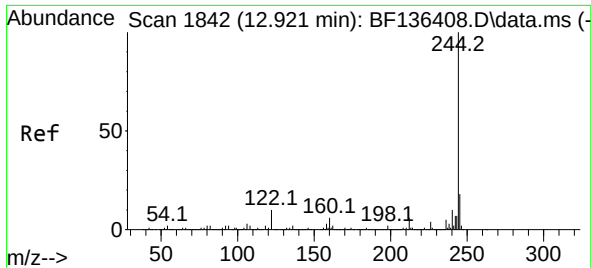
Tgt Ion:240 Resp: 198384  
Ion Ratio Lower Upper  
240 100  
120 9.7 7.3 10.9  
236 25.5 21.3 31.9



#78  
Pyrene  
Concen: 28.477 ng  
RT: 12.769 min Scan# 1816  
Delta R.T. -0.006 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Tgt Ion:202 Resp: 553279  
Ion Ratio Lower Upper  
202 100  
200 20.9 18.0 27.0  
203 17.5 13.5 20.3

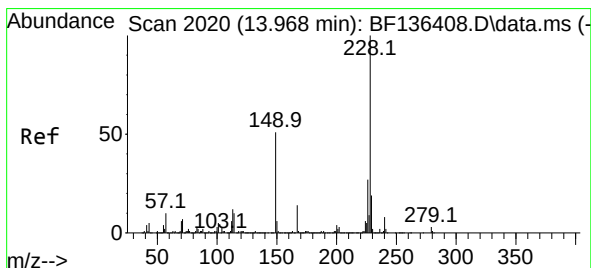
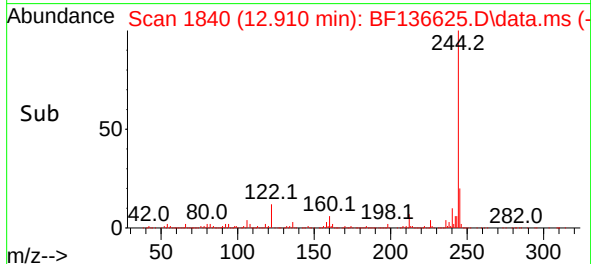
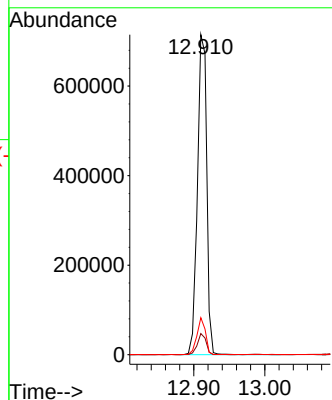
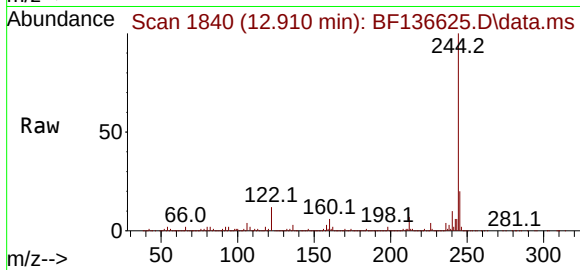




#79  
 Terphenyl-d14  
 Concen: 43.288 ng  
 RT: 12.910 min Scan# 1842  
 Delta R.T. -0.012 min  
 Lab File: BF136625.D  
 Acq: 18 Dec 2023 20:45

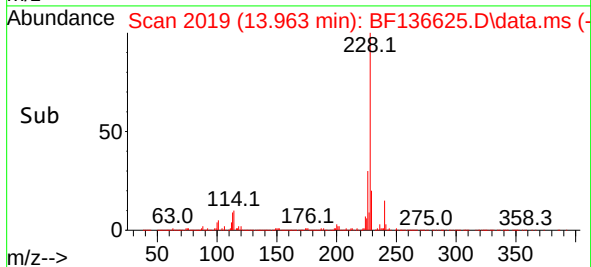
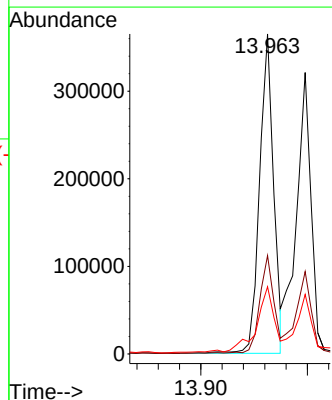
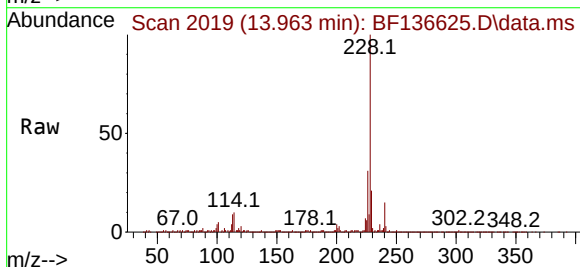
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1RE

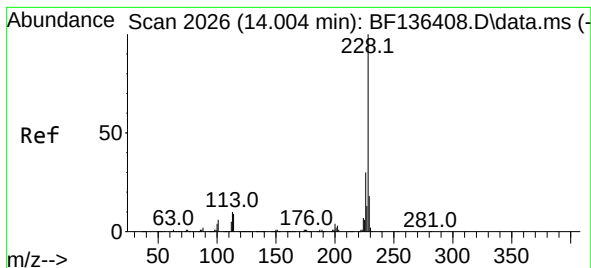
Tgt Ion:244 Resp: 651549  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.0 7.4  
 122 11.6 8.3 12.5



#81  
 Benzo(a)anthracene  
 Concen: 24.079 ng  
 RT: 13.963 min Scan# 2019  
 Delta R.T. -0.006 min  
 Lab File: BF136625.D  
 Acq: 18 Dec 2023 20:45

Tgt Ion:228 Resp: 332739  
 Ion Ratio Lower Upper  
 228 100  
 226 30.8 21.8 32.8  
 229 21.0 15.0 22.4





#83

Chrysene

Concen: 20.865 ng

RT: 13.998 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

Instrument :

BNA\_F

ClientSampleId :

WC-1RE

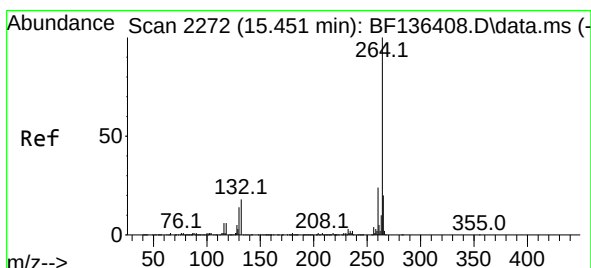
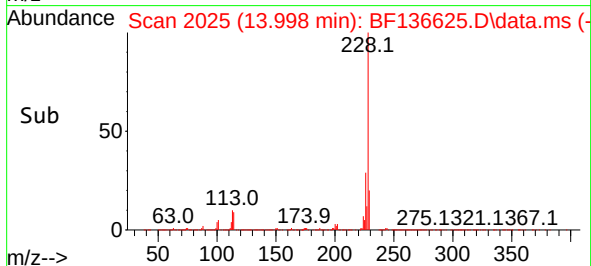
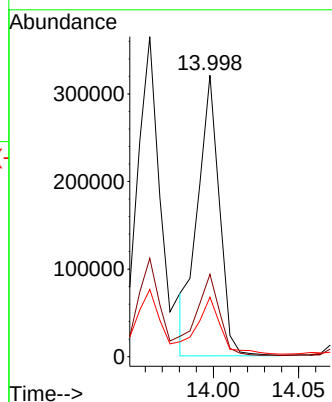
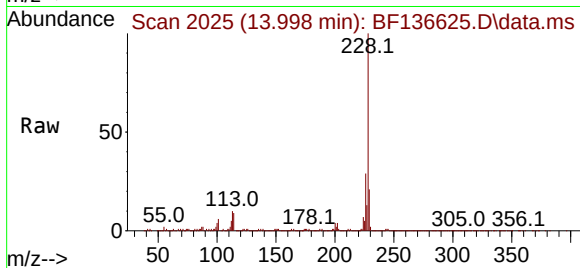
Tgt Ion:228 Resp: 283678

Ion Ratio Lower Upper

228 100

226 29.3 23.8 35.6

229 21.1 14.8 22.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.457 min Scan# 2273

Delta R.T. 0.000 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

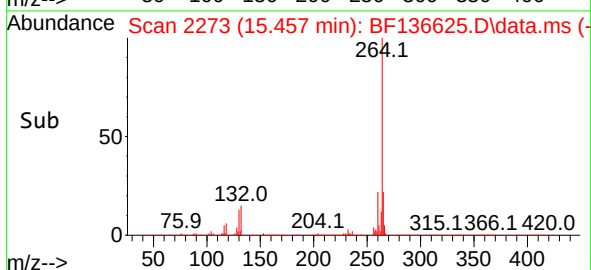
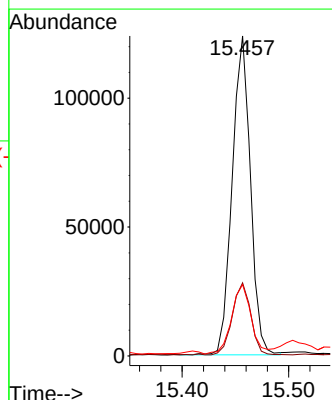
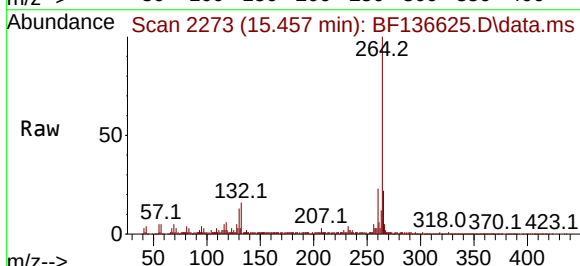
Tgt Ion:264 Resp: 147058

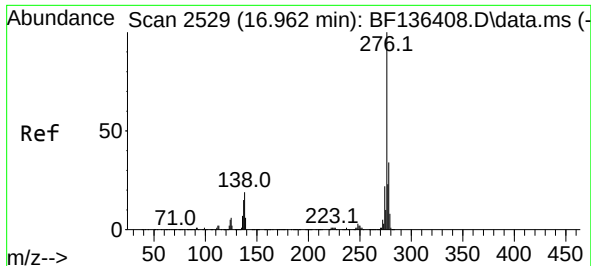
Ion Ratio Lower Upper

264 100

260 22.8 19.2 28.8

265 22.3 15.9 23.9

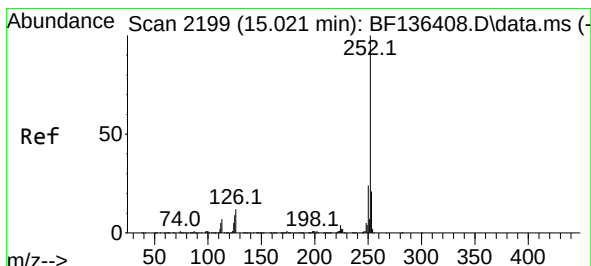
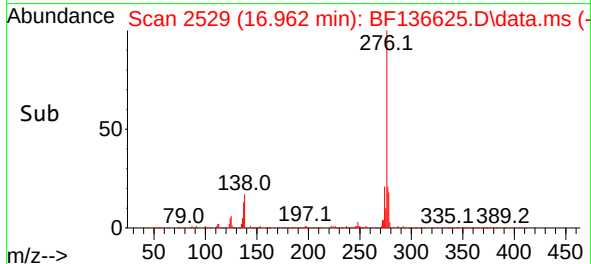
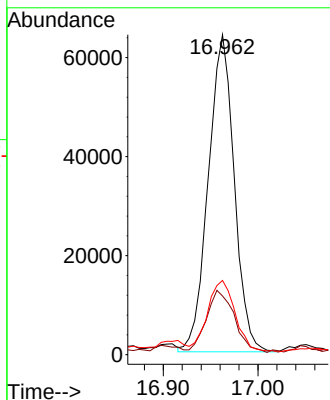
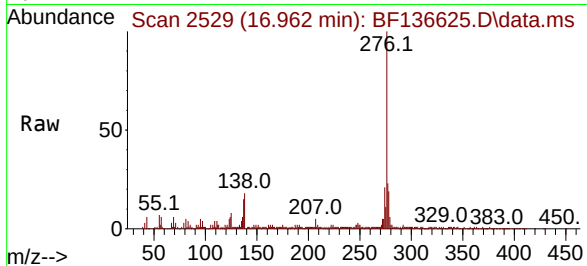




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 11.945 ng  
RT: 16.962 min Scan# 2199  
Delta R.T. -0.012 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

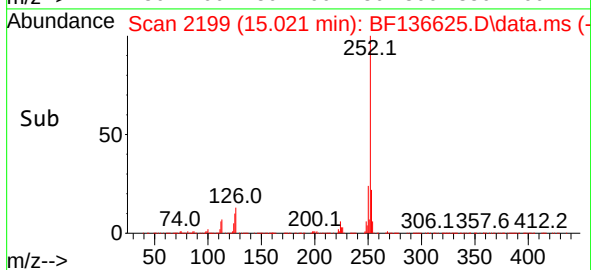
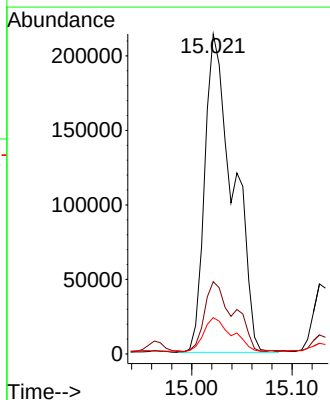
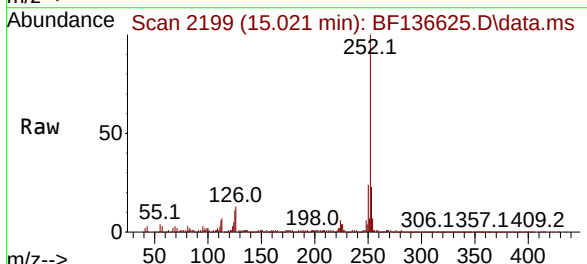
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

Tgt Ion:276 Resp: 122040  
Ion Ratio Lower Upper  
276 100  
138 21.2 19.0 28.4  
277 24.0 20.0 30.0

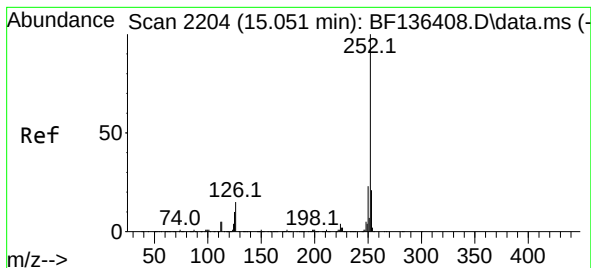


#88  
Benzo(b)fluoranthene  
Concen: 42.057 ng  
RT: 15.021 min Scan# 2199  
Delta R.T. 0.000 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Tgt Ion:252 Resp: 422870  
Ion Ratio Lower Upper  
252 100  
253 22.6 16.9 25.3  
125 11.3 7.4 11.2#







#89

Benzo(k)fluoranthene

Concen: 44.627 ng

RT: 15.021 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

Instrument :

BNA\_F

ClientSampleId :

WC-1RE

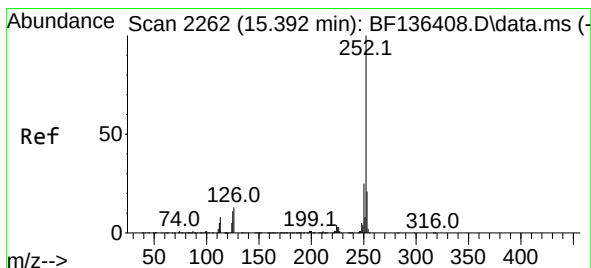
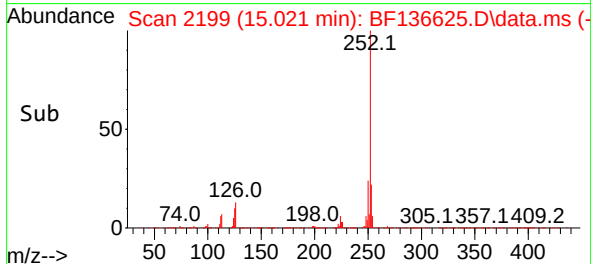
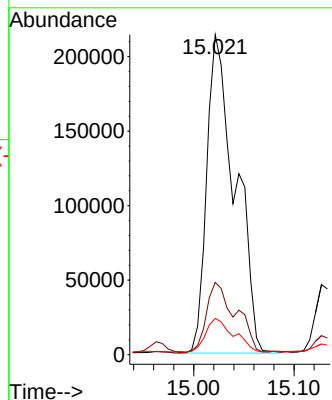
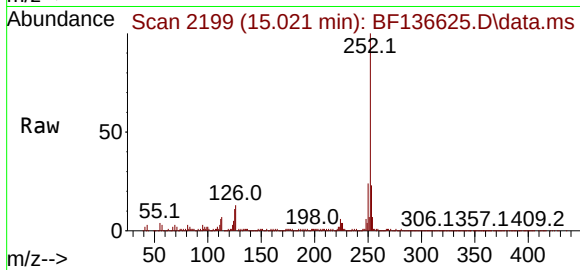
Tgt Ion:252 Resp: 422870

Ion Ratio Lower Upper

252 100

253 22.6 16.9 25.3

125 11.3 7.5 11.3#



#90

Benzo(a)pyrene

Concen: 26.499 ng

RT: 15.392 min Scan# 2262

Delta R.T. -0.006 min

Lab File: BF136625.D

Acq: 18 Dec 2023 20:45

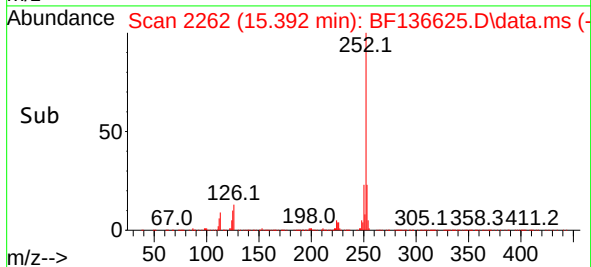
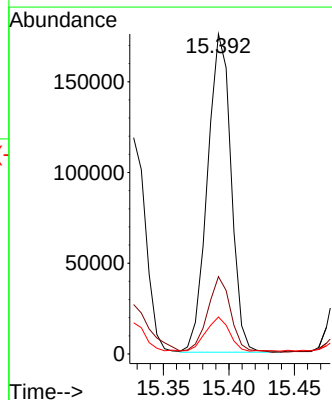
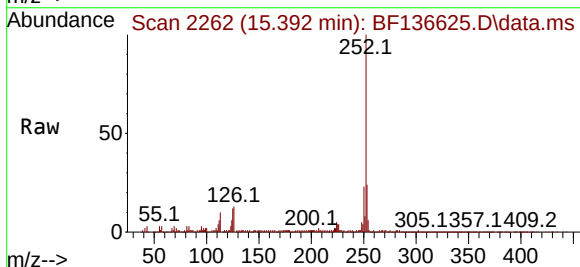
Tgt Ion:252 Resp: 220035

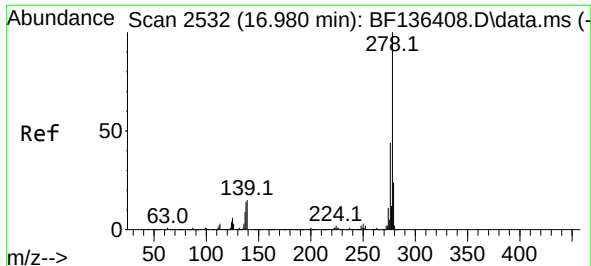
Ion Ratio Lower Upper

252 100

253 24.1 17.0 25.4

125 11.5 8.6 13.0

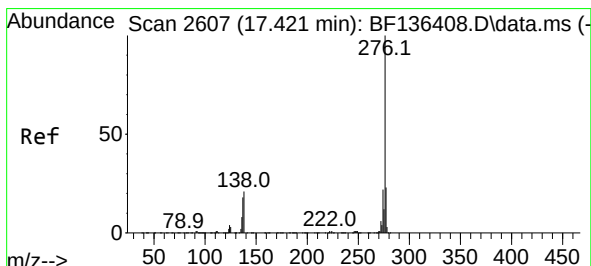
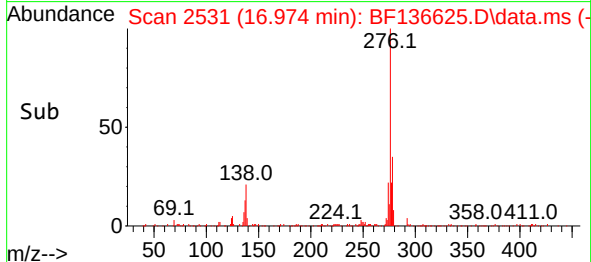
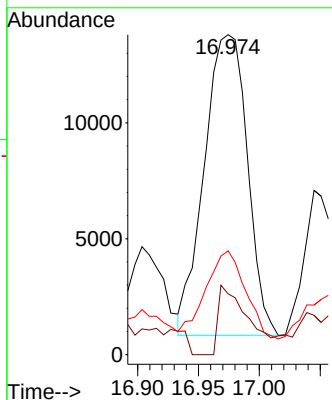
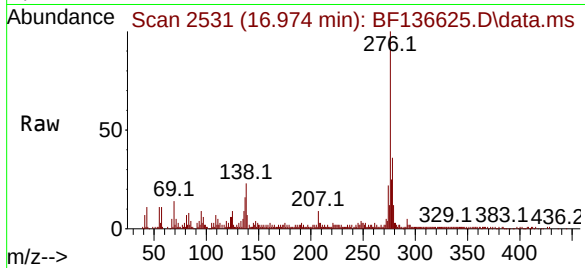




#91  
Dibenzo(a,h)anthracene  
Concen: 3.815 ng  
RT: 16.974 min Scan# 21  
Delta R.T. -0.023 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Instrument :  
BNA\_F  
ClientSampleId :  
WC-1RE

Tgt Ion:278 Resp: 31934  
Ion Ratio Lower Upper  
278 100  
139 19.0 12.2 18.4#  
279 32.4 19.0 28.4#



#92  
Benzo(g,h,i)perylene  
Concen: 13.150 ng  
RT: 17.421 min Scan# 2607  
Delta R.T. -0.018 min  
Lab File: BF136625.D  
Acq: 18 Dec 2023 20:45

Tgt Ion:276 Resp: 112963  
Ion Ratio Lower Upper  
276 100  
277 22.8 18.7 28.1  
138 19.7 16.6 25.0

