

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF042523\  
 Data File : BF133050.D  
 Acq On : 26 Apr 2023 03:06  
 Operator : CG\JU  
 Sample : 02389-31 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SPB-8WC-23-04-17

Quant Time: Apr 26 04:36:44 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF042123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 25 18:24:07 2023  
 Response via : Initial Calibration

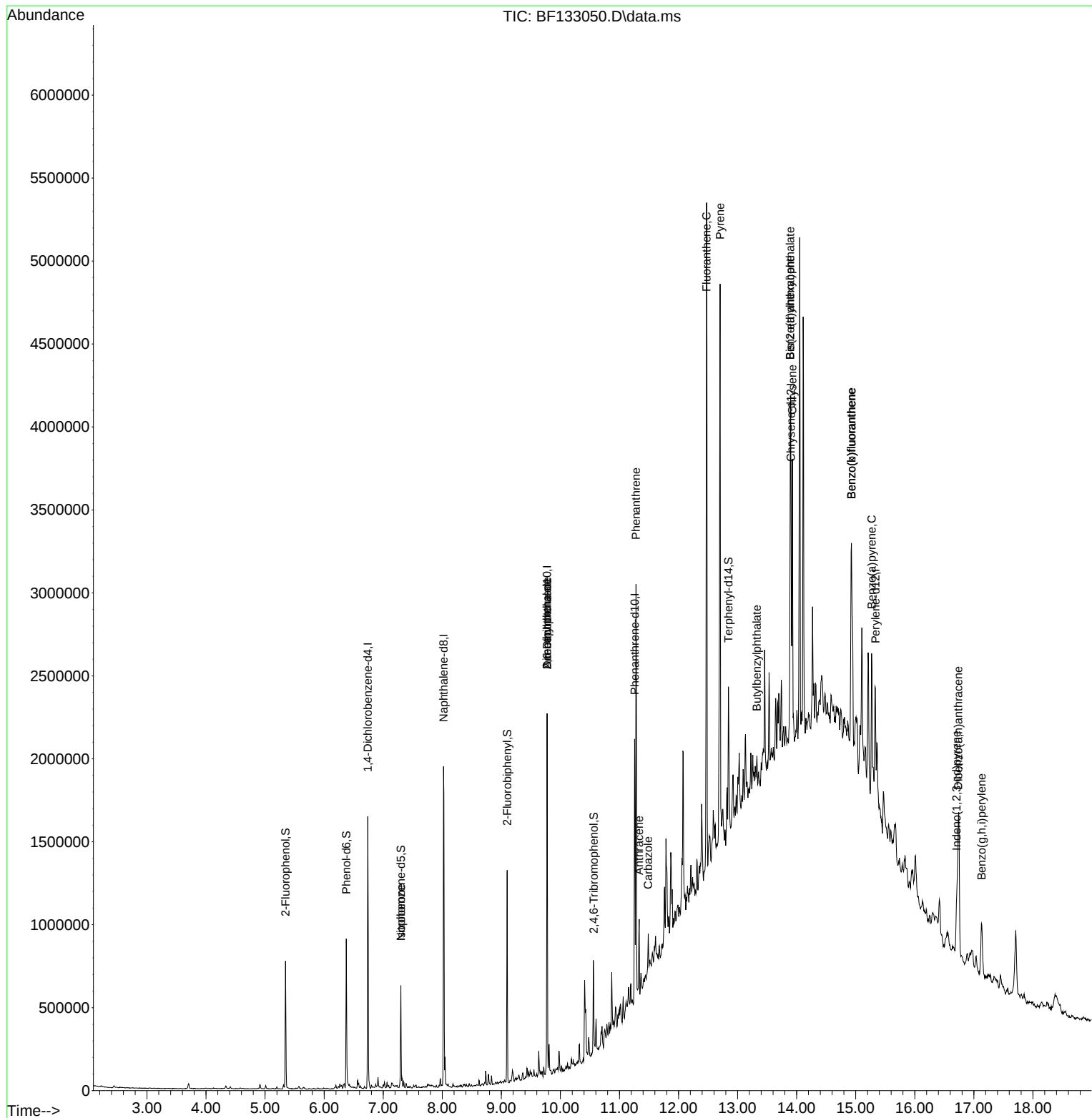
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.740  | 152  | 210069   | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.022  | 136  | 802930   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.775  | 164  | 369709   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.257 | 188  | 562972   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 13.904 | 240  | 383213   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 15.333 | 264  | 327238   | 20.000    | ng    | 0.02     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.346  | 112  | 200654   | 14.429    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.375  | 99   | 268787   | 15.572    | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.298  | 82   | 151250   | 10.168    | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.563 | 330  | 52737    | 14.184    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.098  | 172  | 319607   | 14.463    | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.845 | 244  | 269317   | 12.121    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.281  | 77   | 4293     | Below Cal |       | 82       |
| 25) Isophorone                | 7.298  | 82   | 151207   | 5.354 ng  | #     | 63       |
| 50) Dimethylphthalate         | 9.775  | 163  | 72603    | 2.816 ng  | #     | 1        |
| 51) 2,6-Dinitrotoluene        | 9.775  | 165  | 49881    | 8.597 ng  | #     | 25       |
| 71) Phenanthrene              | 11.281 | 178  | 898570   | 29.697 ng |       | 99       |
| 72) Anthracene                | 11.333 | 178  | 161890   | 5.228 ng  |       | 97       |
| 73) Carbazole                 | 11.486 | 167  | 91863    | 3.332 ng  |       | 96       |
| 75) Fluoranthene              | 12.475 | 202  | 1774475  | 58.434 ng |       | 99       |
| 78) Pyrene                    | 12.704 | 202  | 1430553  | 43.548 ng |       | 99       |
| 80) Butylbenzylphthalate      | 13.327 | 149  | 25161    | 2.163 ng  | #     | 80       |
| 81) Benzo(a)anthracene        | 13.892 | 228  | 524776   | 19.914 ng |       | 97       |
| 83) Chrysene                  | 13.927 | 228  | 699470   | 26.550 ng |       | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 13.892 | 149  | 162966   | 11.162 ng |       | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.710 | 276  | 268423   | 14.421 ng |       | 95       |
| 88) Benzo(b)fluoranthene      | 14.927 | 252  | 910673   | 43.743 ng | #     | 93       |
| 89) Benzo(k)fluoranthene      | 14.927 | 252  | 910673   | 44.128 ng | #     | 94       |
| 90) Benzo(a)pyrene            | 15.268 | 252  | 388230   | 20.488 ng | #     | 93       |
| 91) Dibenzo(a,h)anthracene    | 16.733 | 278  | 72147    | 4.647 ng  | #     | 57       |
| 92) Benzo(g,h,i)perylene      | 17.133 | 276  | 248642   | 16.222 ng |       | 98       |
| -----                         |        |      |          |           |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF042523\  
Data File : BF133050.D  
Acq On : 26 Apr 2023 03:06  
Operator : CG\JU  
Sample : 02389-31 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SPB-8WC-23-04-17

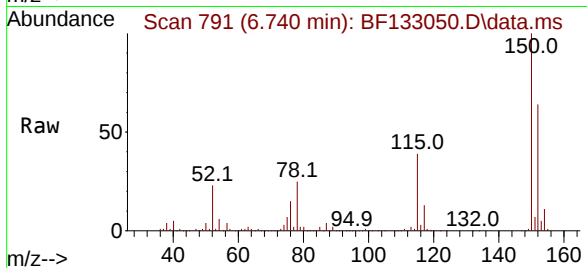
Quant Time: Apr 26 04:36:44 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF042123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 25 18:24:07 2023  
Response via : Initial Calibration



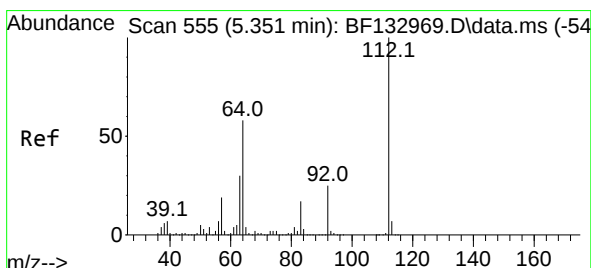
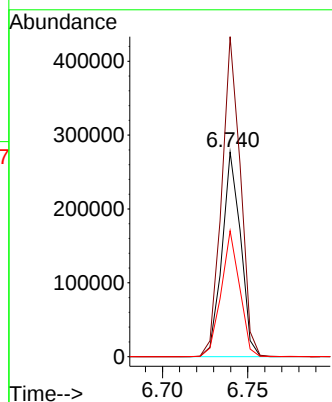
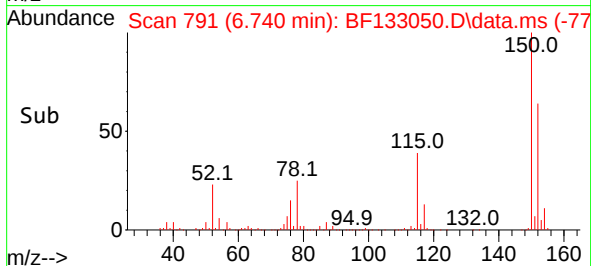


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.740 min Scan# 793  
Delta R.T. -0.005 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

Instrument :  
BNA\_F  
ClientSampleId :  
SPB-8WC-23-04-17

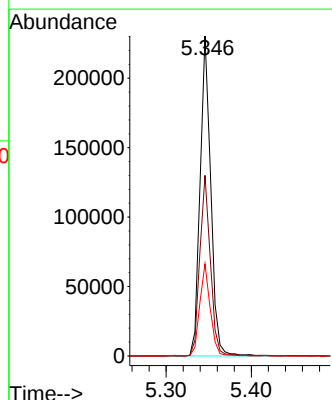
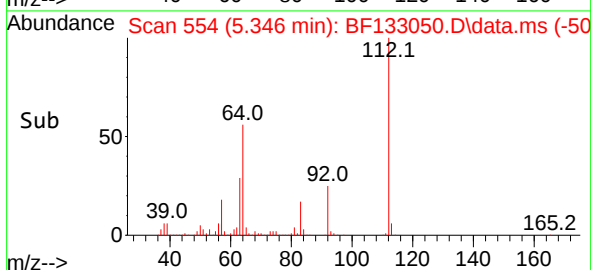
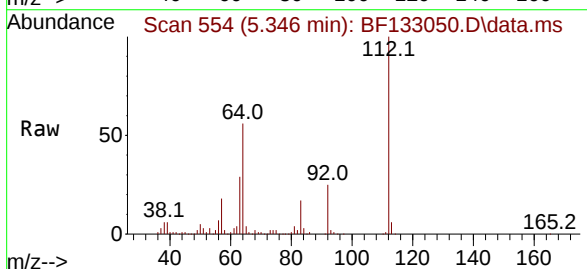


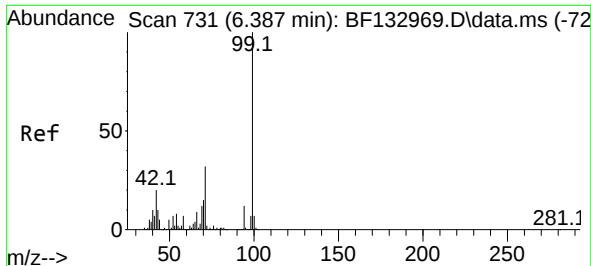
Tgt Ion:152 Resp: 210069  
Ion Ratio Lower Upper  
152 100  
150 156.3 124.8 187.2  
115 61.5 49.9 74.9



#5  
2-Fluorophenol  
Concen: 14.429 ng  
RT: 5.346 min Scan# 554  
Delta R.T. -0.006 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

Tgt Ion:112 Resp: 200654  
Ion Ratio Lower Upper  
112 100  
64 56.5 46.8 70.2  
63 28.8 23.8 35.8

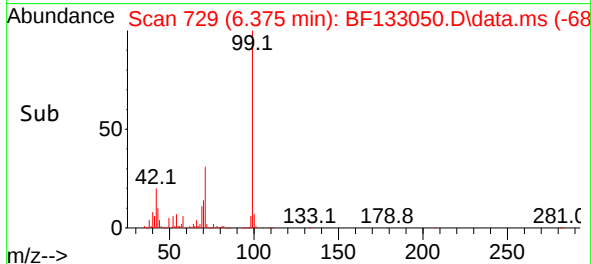
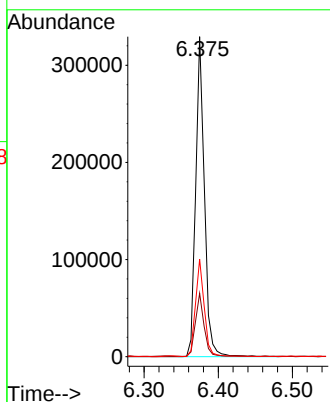
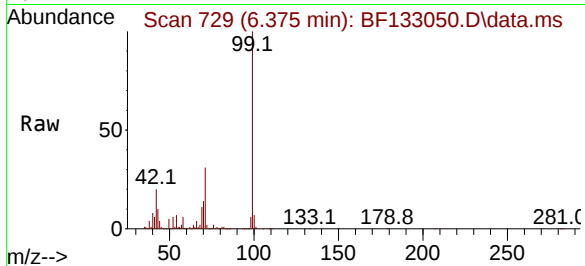




#7  
Phenol-d6  
Concen: 15.572 ng  
RT: 6.375 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

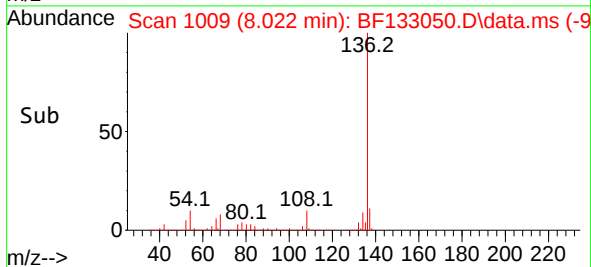
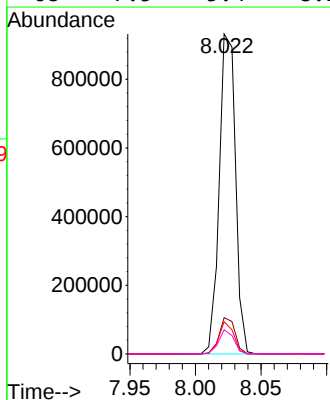
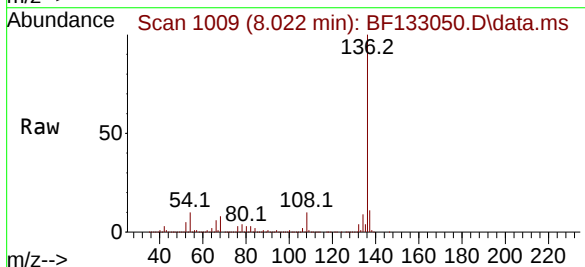
Instrument :  
BNA\_F  
ClientSampleId :  
SPB-8WC-23-04-17

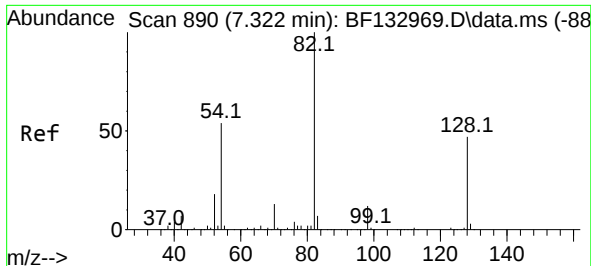
Tgt Ion: 99 Resp: 268787  
Ion Ratio Lower Upper  
99 100  
42 19.8 16.3 24.5  
71 30.5 25.6 38.4



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.022 min Scan# 1009  
Delta R.T. -0.006 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

Tgt Ion: 136 Resp: 802930  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.6 13.0  
54 10.0 7.0 10.4  
68 7.5 5.4 8.2

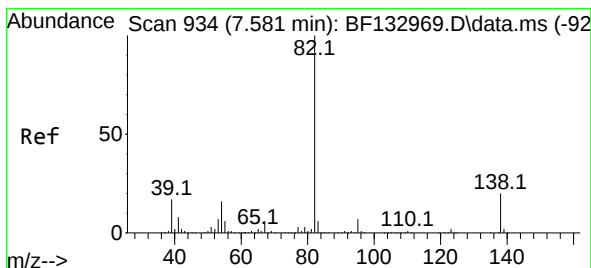
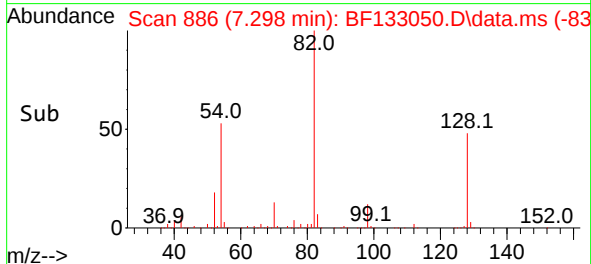
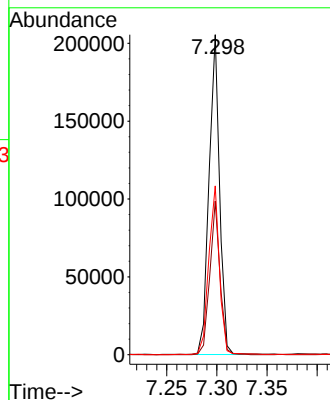
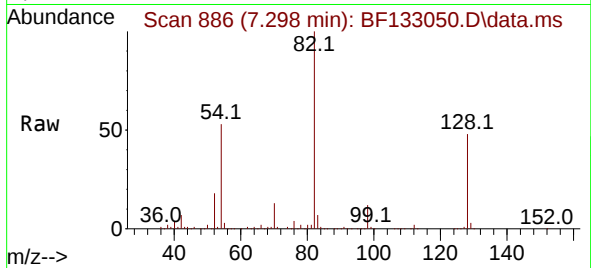




#23  
Nitrobenzene-d5  
Concen: 10.168 ng  
RT: 7.298 min Scan# 886  
Delta R.T. -0.012 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

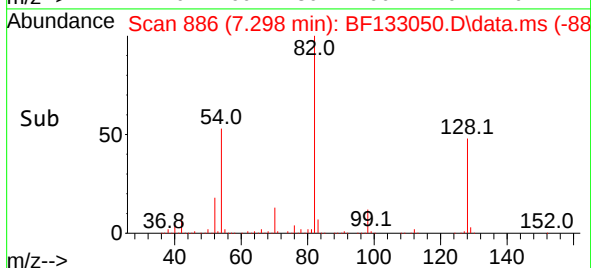
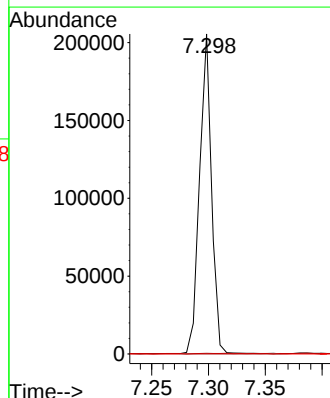
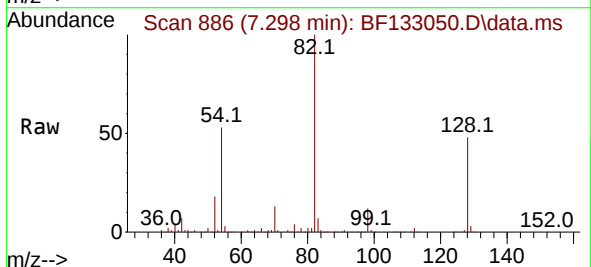
Instrument :  
BNA\_F  
ClientSampleId :  
SPB-8WC-23-04-17

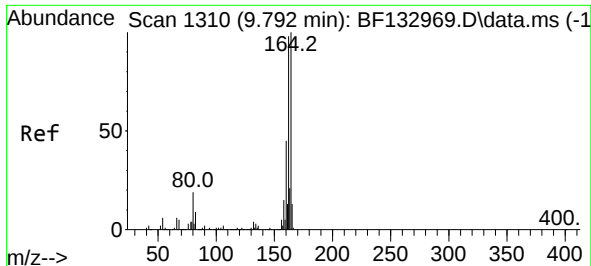
Tgt Ion: 82 Resp: 151250  
Ion Ratio Lower Upper  
82 100  
128 48.0 37.7 56.5  
54 52.8 43.0 64.4



#25  
Isophorone  
Concen: 5.354 ng  
RT: 7.298 min Scan# 886  
Delta R.T. -0.270 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

Tgt Ion: 82 Resp: 151207  
Ion Ratio Lower Upper  
82 100  
95 0.2 5.4 8.0#  
138 0.0 16.0 24.0#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

Instrument :

BNA\_F

ClientSampleId :

SPB-8WC-23-04-17

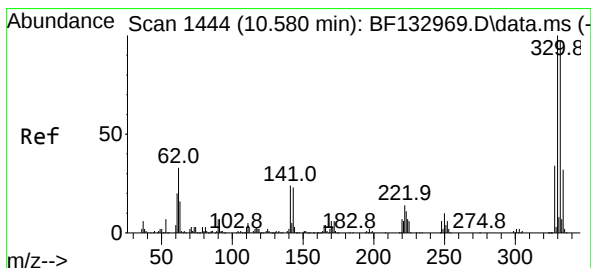
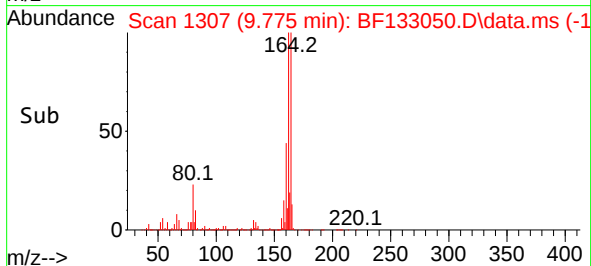
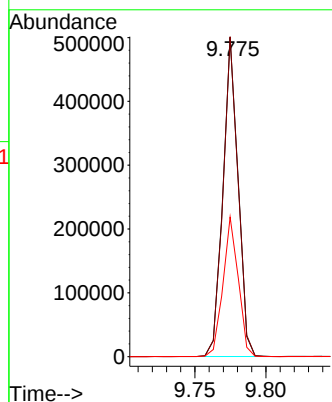
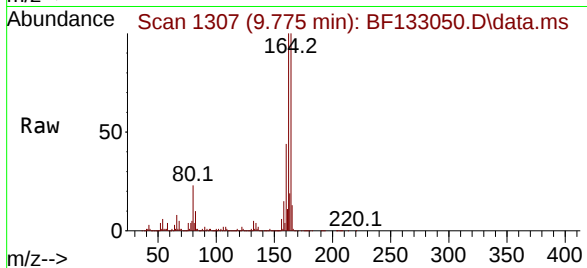
Tgt Ion:164 Resp: 369709

Ion Ratio Lower Upper

164 100

162 100.2 78.7 118.1

160 43.7 35.8 53.6



#42

2,4,6-Tribromophenol

Concen: 14.184 ng

RT: 10.563 min Scan# 1441

Delta R.T. -0.006 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

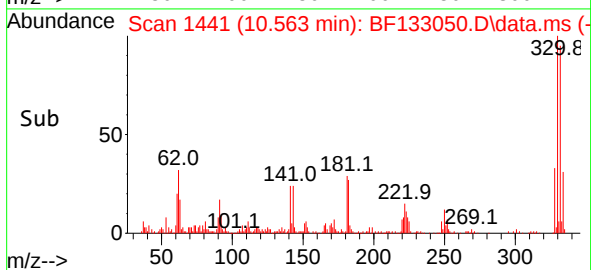
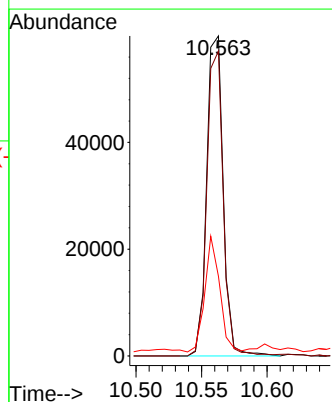
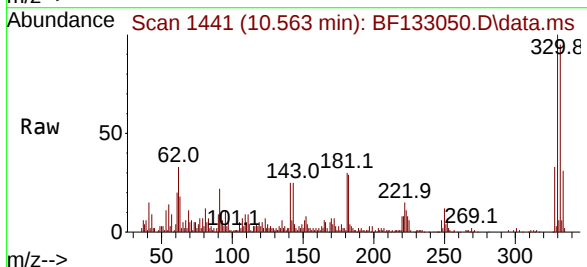
Tgt Ion:330 Resp: 52737

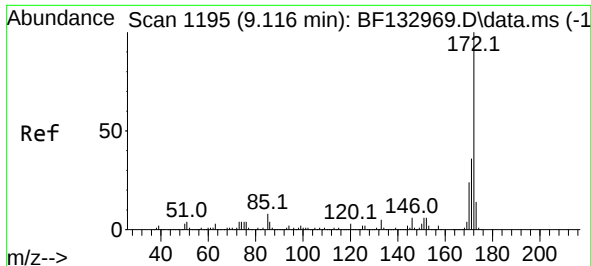
Ion Ratio Lower Upper

330 100

332 94.4 77.1 115.7

141 32.6 25.8 38.8

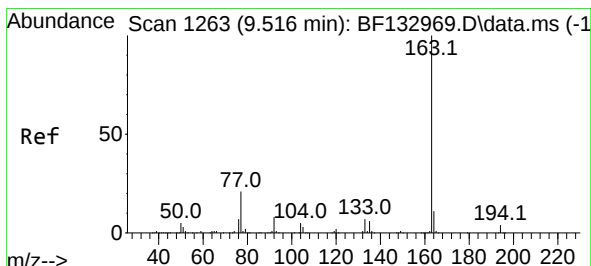
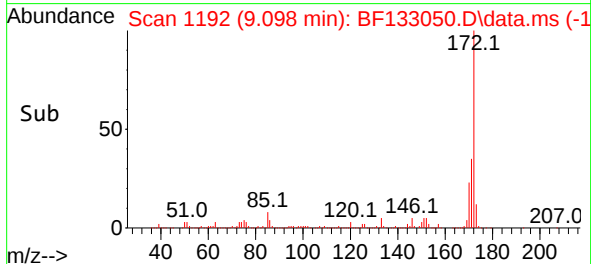
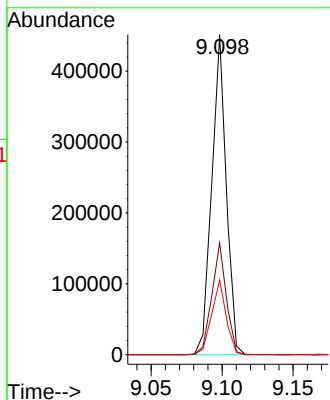
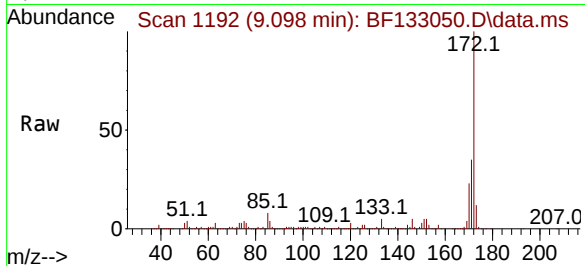




#45  
2-Fluorobiphenyl  
Concen: 14.463 ng  
RT: 9.098 min Scan# 1195  
Delta R.T. -0.012 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

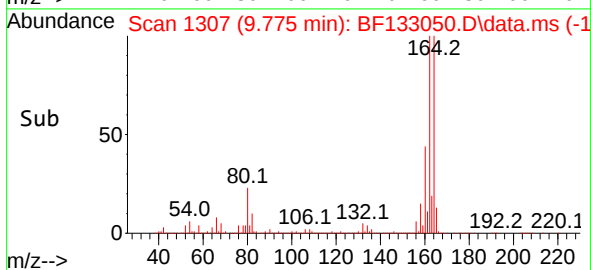
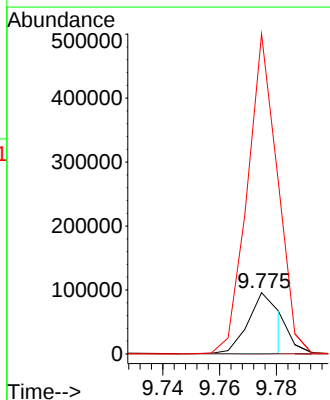
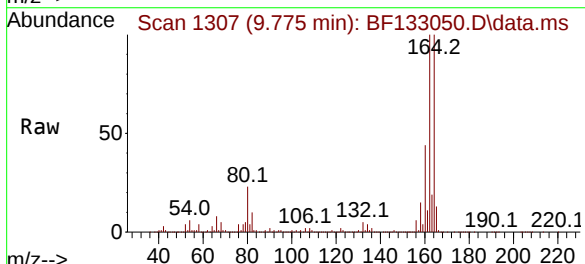
Instrument :  
BNA\_F  
ClientSampleId :  
SPB-8WC-23-04-17

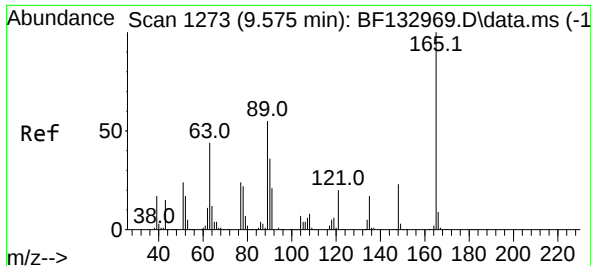
Tgt Ion:172 Resp: 319607  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.8 43.2  
170 23.4 19.4 29.2



#50  
Dimethylphthalate  
Concen: 2.816 ng  
RT: 9.775 min Scan# 1307  
Delta R.T. 0.265 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

Tgt Ion:163 Resp: 72603  
Ion Ratio Lower Upper  
163 100  
194 0.0 3.1 4.7#  
164 522.2 8.5 12.7#

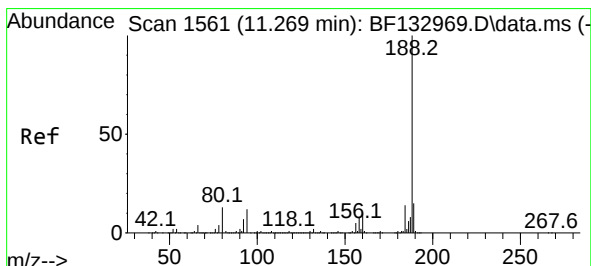
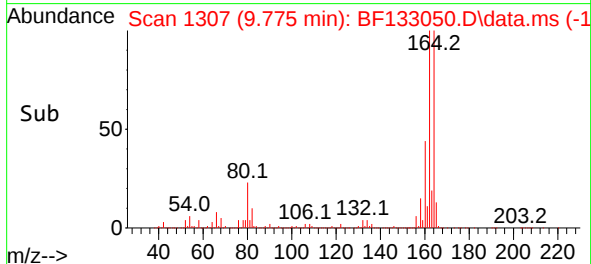
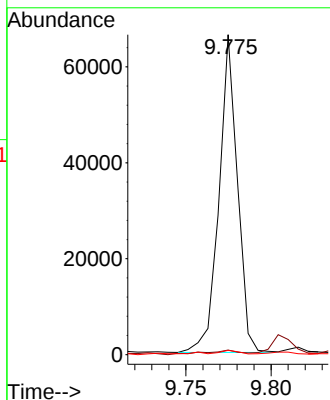
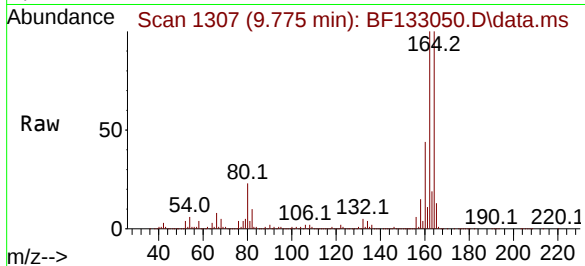




#51  
2,6-Dinitrotoluene  
Concen: 8.597 ng  
RT: 9.775 min Scan# 11  
Delta R.T. 0.206 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

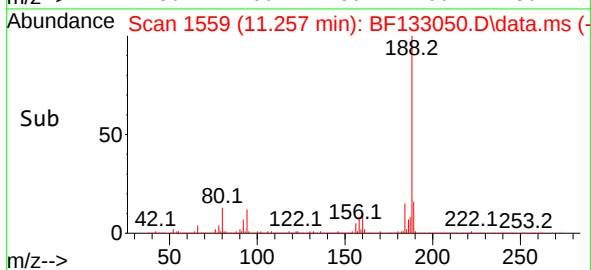
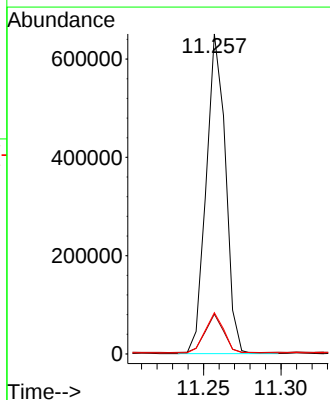
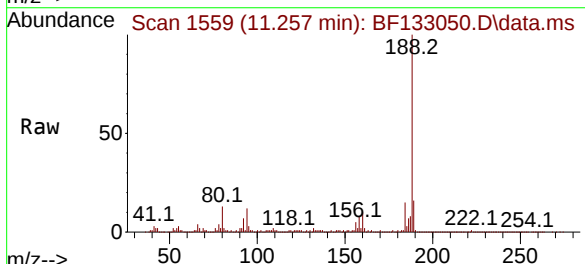
Instrument :  
BNA\_F  
ClientSampleId :  
SPB-8WC-23-04-17

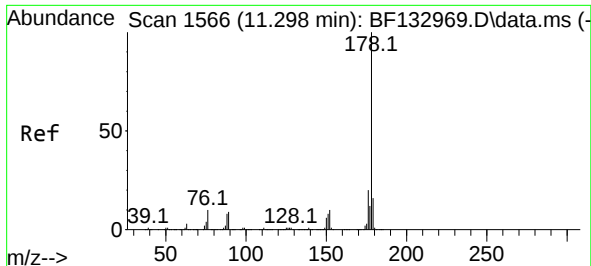
Tgt Ion:165 Resp: 49881  
Ion Ratio Lower Upper  
165 100  
63 1.5 45.9 68.9#  
89 1.3 44.0 66.0#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.257 min Scan# 1559  
Delta R.T. -0.006 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

Tgt Ion:188 Resp: 562972  
Ion Ratio Lower Upper  
188 100  
94 12.5 9.7 14.5  
80 12.9 10.4 15.6

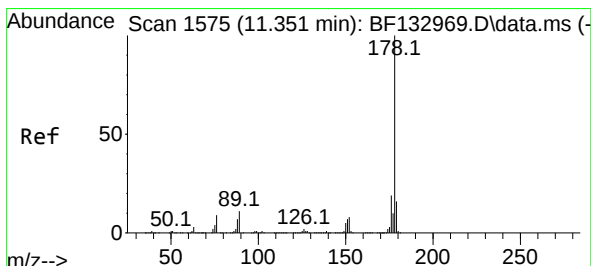
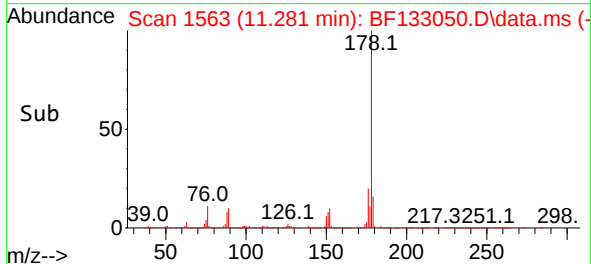
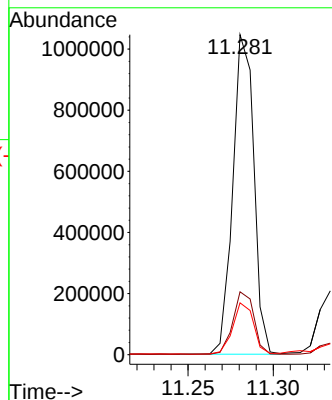
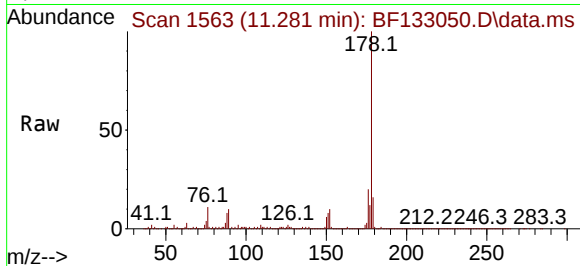




#71  
Phenanthrene  
Concen: 29.697 ng  
RT: 11.281 min Scan# 1563  
Delta R.T. -0.006 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

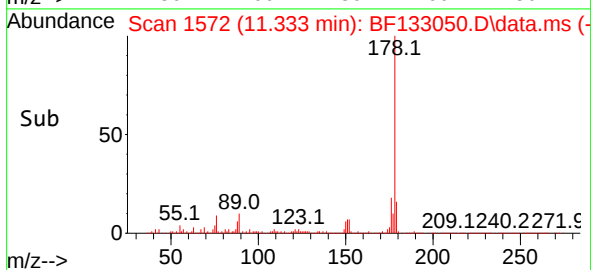
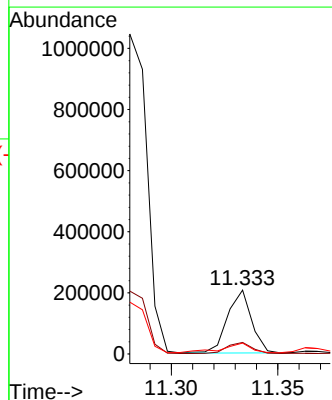
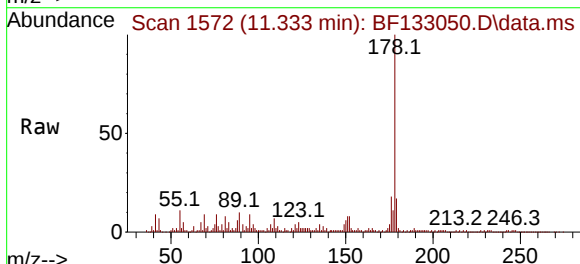
Instrument :  
BNA\_F  
ClientSampleId :  
SPB-8WC-23-04-17

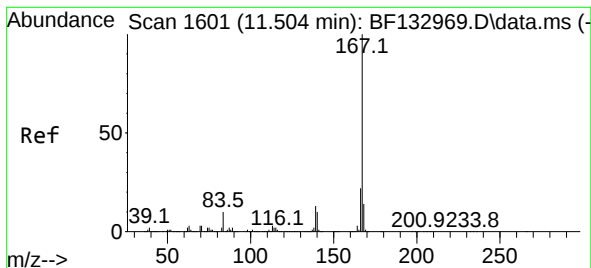
Tgt Ion:178 Resp: 898570  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.9 23.9  
179 16.2 12.5 18.7



#72  
Anthracene  
Concen: 5.228 ng  
RT: 11.333 min Scan# 1572  
Delta R.T. -0.006 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

Tgt Ion:178 Resp: 161890  
Ion Ratio Lower Upper  
178 100  
176 18.1 15.4 23.0  
179 17.0 12.4 18.6





#73

Carbazole

Concen: 3.332 ng

RT: 11.486 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

Instrument :

BNA\_F

ClientSampleId :

SPB-8WC-23-04-17

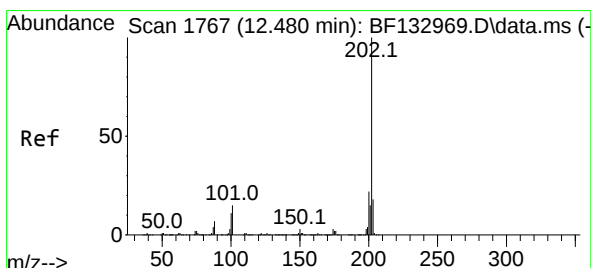
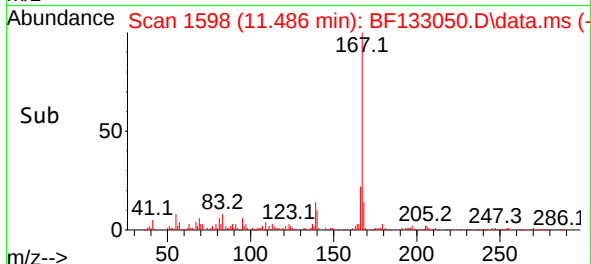
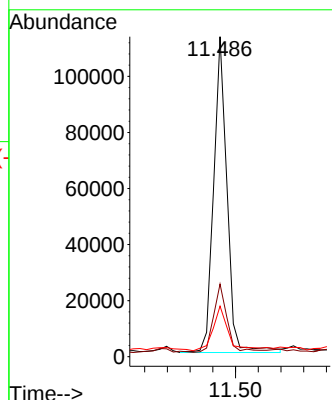
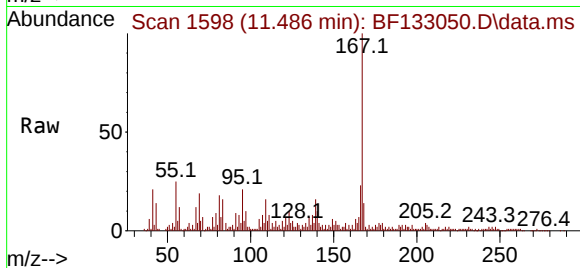
Tgt Ion:167 Resp: 91863

Ion Ratio Lower Upper

167 100

166 22.7 17.4 26.0

139 15.8 10.6 16.0



#75

Fluoranthene

Concen: 58.434 ng

RT: 12.475 min Scan# 1766

Delta R.T. 0.000 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

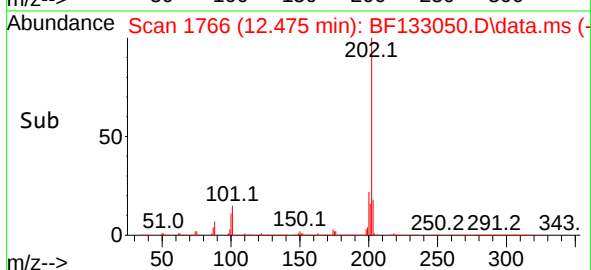
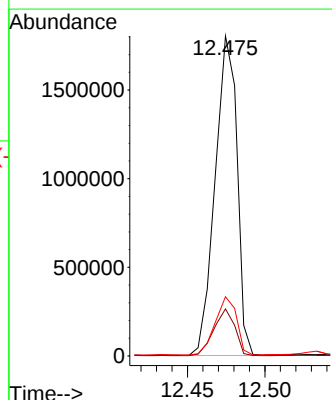
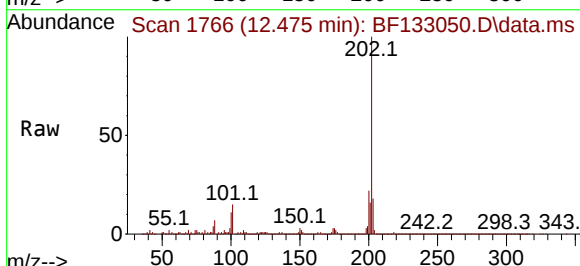
Tgt Ion:202 Resp: 1774475

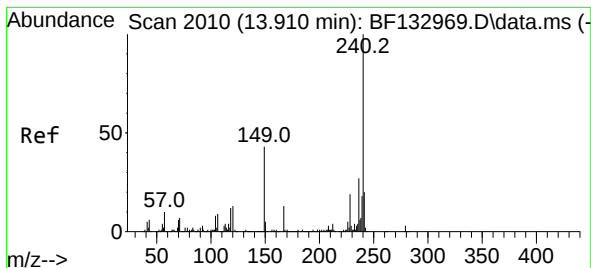
Ion Ratio Lower Upper

202 100

101 14.7 0.0 35.3

203 18.5 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.904 min Scan# 2010

Delta R.T. 0.006 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

Instrument :

BNA\_F

ClientSampleId :

SPB-8WC-23-04-17

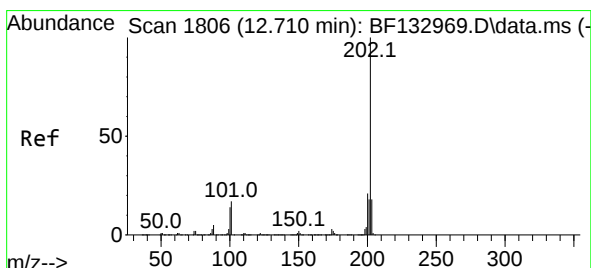
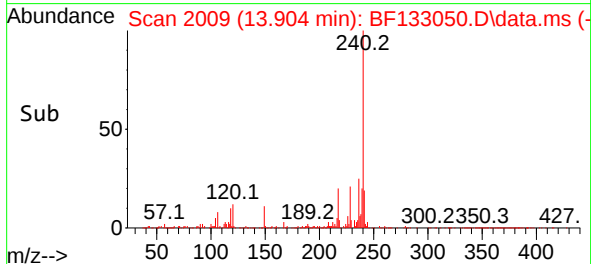
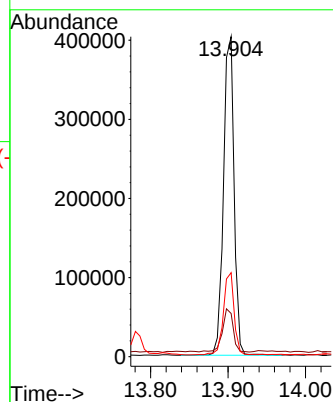
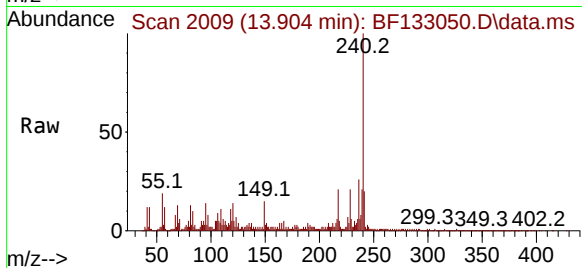
Tgt Ion:240 Resp: 383213

Ion Ratio Lower Upper

240 100

120 13.5 10.5 15.7

236 26.2 21.5 32.3



#78

Pyrene

Concen: 43.548 ng

RT: 12.704 min Scan# 1805

Delta R.T. 0.006 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

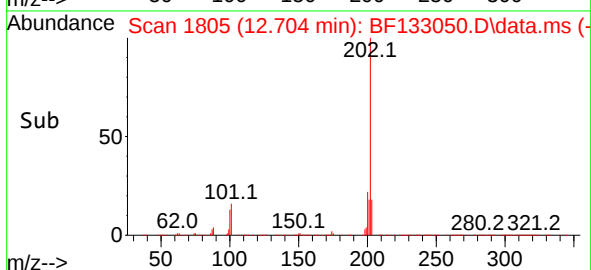
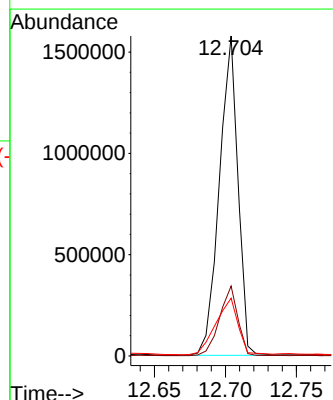
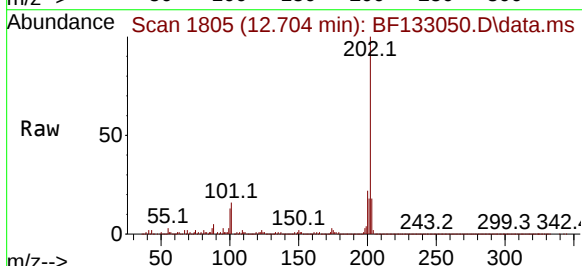
Tgt Ion:202 Resp: 1430553

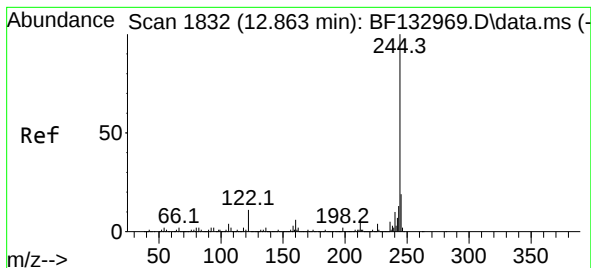
Ion Ratio Lower Upper

202 100

200 21.8 17.1 25.7

203 18.1 14.1 21.1





#79

Terphenyl-d14

Concen: 12.121 ng

RT: 12.845 min Scan# 1829

Delta R.T. -0.006 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

Instrument :

BNA\_F

ClientSampleId :

SPB-8WC-23-04-17

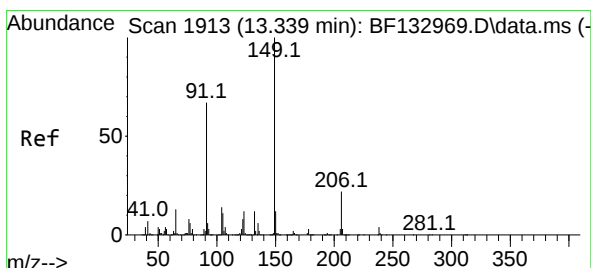
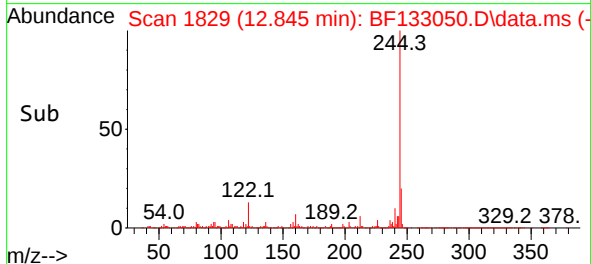
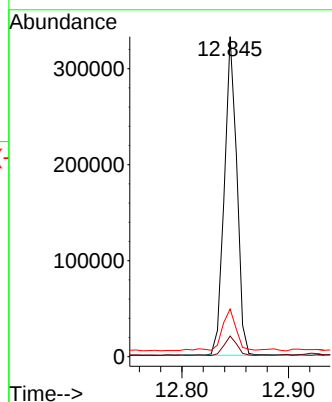
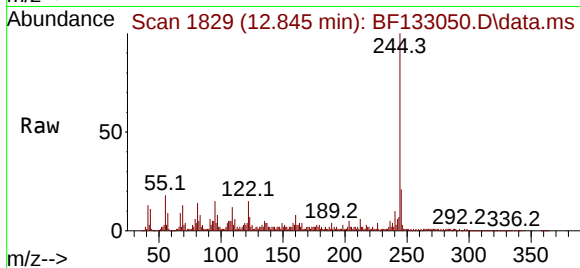
Tgt Ion:244 Resp: 269317

Ion Ratio Lower Upper

244 100

212 6.5 5.1 7.7

122 14.9 8.6 13.0#



#80

Butylbenzylphthalate

Concen: 2.163 ng

RT: 13.327 min Scan# 1911

Delta R.T. 0.000 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

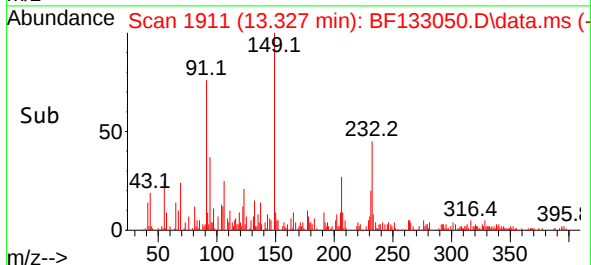
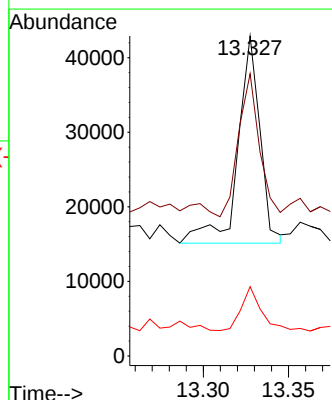
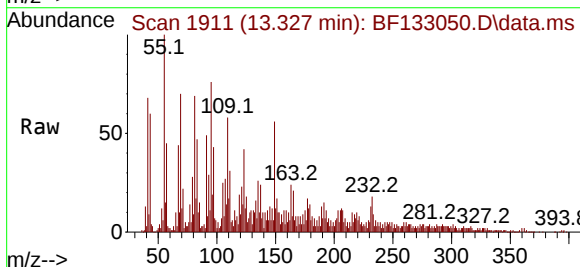
Tgt Ion:149 Resp: 25161

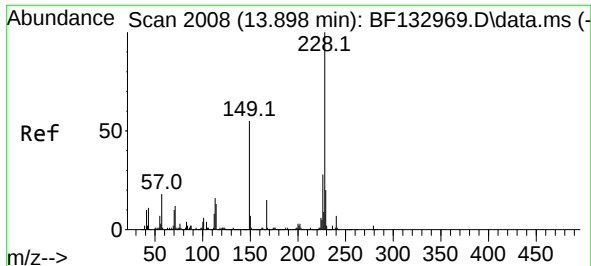
Ion Ratio Lower Upper

149 100

91 88.2 53.8 80.6#

206 21.7 17.5 26.3

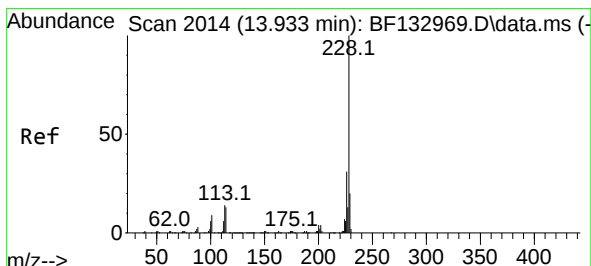
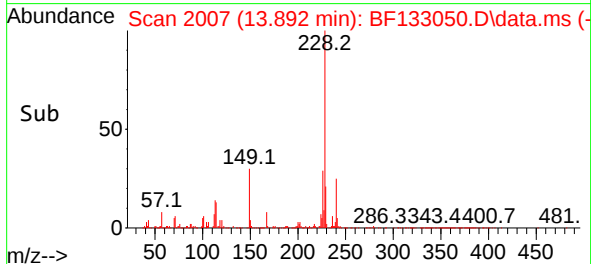
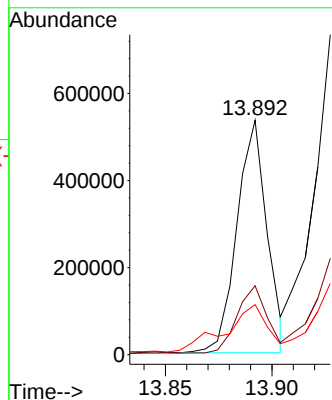
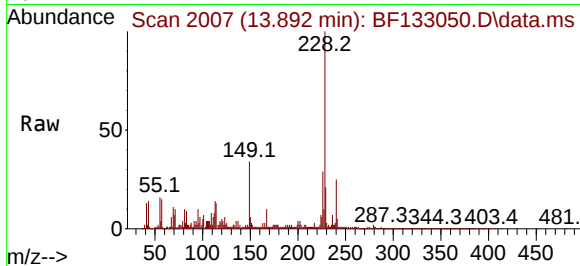




#81  
Benzo(a)anthracene  
Concen: 19.914 ng  
RT: 13.892 min Scan# 2007  
Delta R.T. 0.006 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

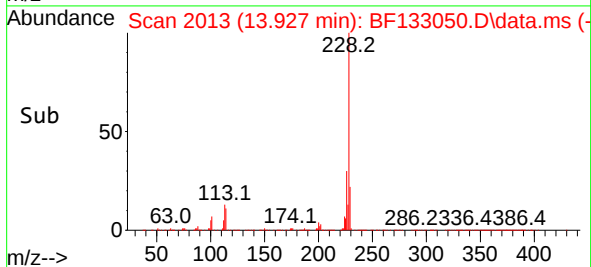
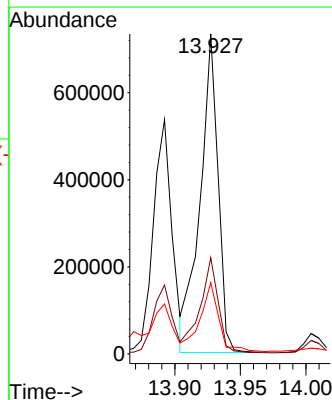
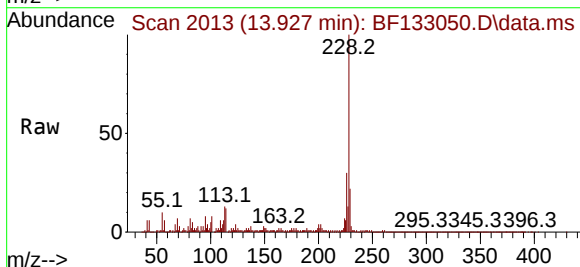
Instrument :  
BNA\_F  
ClientSampleId :  
SPB-8WC-23-04-17

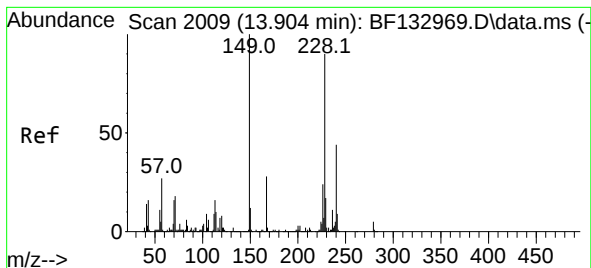
Tgt Ion:228 Resp: 524776  
Ion Ratio Lower Upper  
228 100  
226 29.4 22.2 33.4  
229 21.4 16.0 24.0



#83  
Chrysene  
Concen: 26.550 ng  
RT: 13.927 min Scan# 2013  
Delta R.T. 0.000 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

Tgt Ion:228 Resp: 699470  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.7 37.1  
229 22.3 16.1 24.1





#84

Bis(2-ethylhexyl)phthalate

Concen: 11.162 ng

RT: 13.892 min Scan# 2009

Delta R.T. 0.000 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

Instrument :

BNA\_F

ClientSampleId :

SPB-8WC-23-04-17

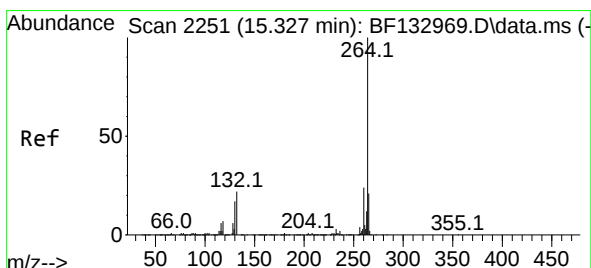
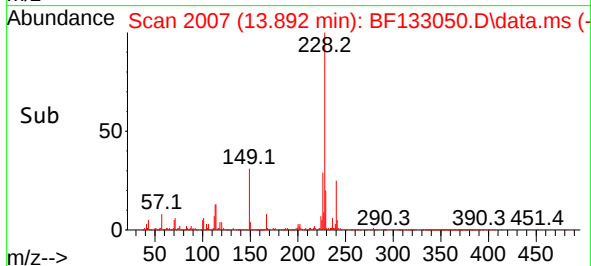
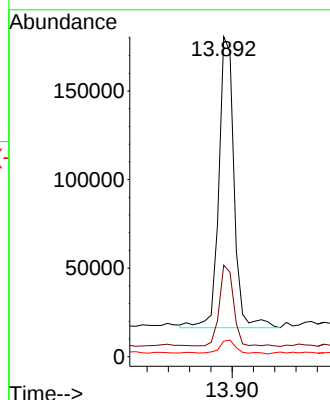
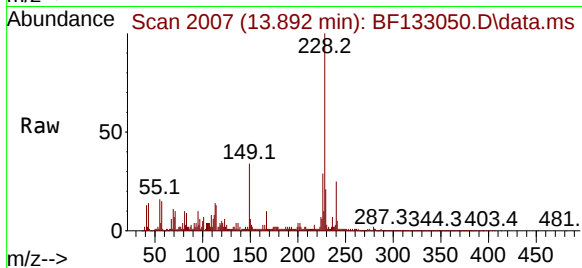
Tgt Ion:149 Resp: 162966

Ion Ratio Lower Upper

149 100

167 28.6 22.5 33.7

279 4.8 4.2 6.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.333 min Scan# 2252

Delta R.T. 0.018 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

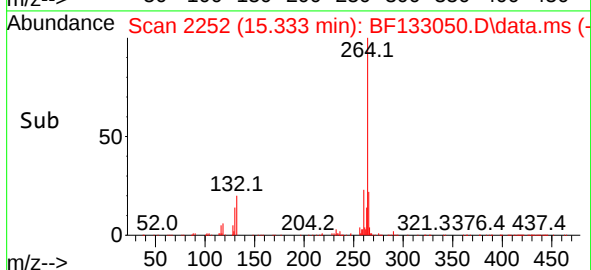
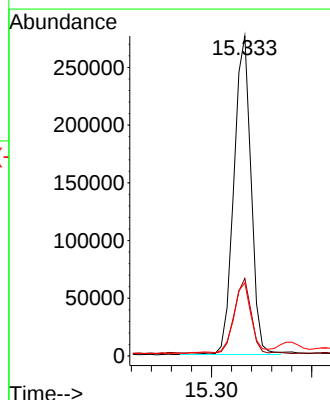
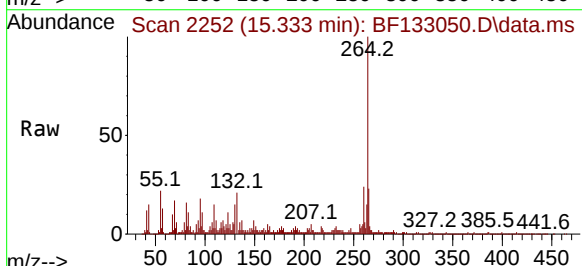
Tgt Ion:264 Resp: 327238

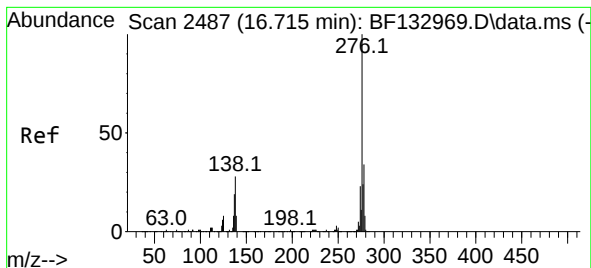
Ion Ratio Lower Upper

264 100

260 24.3 18.8 28.2

265 22.9 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 14.421 ng

RT: 16.710 min Scan# 2487

Delta R.T. 0.006 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

Instrument :

BNA\_F

ClientSampleId :

SPB-8WC-23-04-17

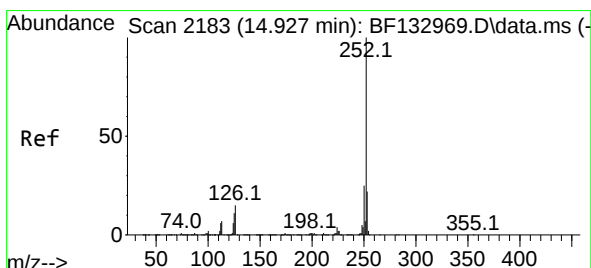
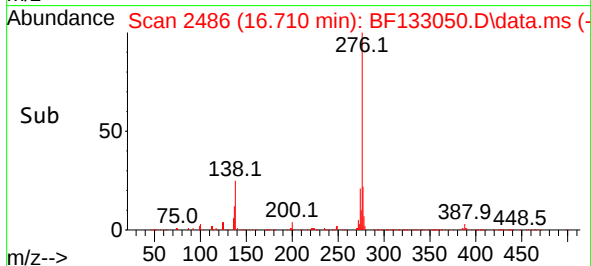
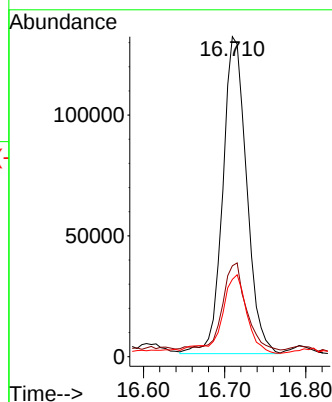
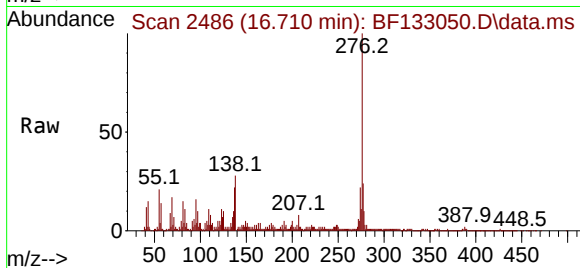
Tgt Ion:276 Resp: 268423

Ion Ratio Lower Upper

276 100

138 27.3 25.5 38.3

277 26.2 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 43.743 ng

RT: 14.927 min Scan# 2183

Delta R.T. 0.012 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

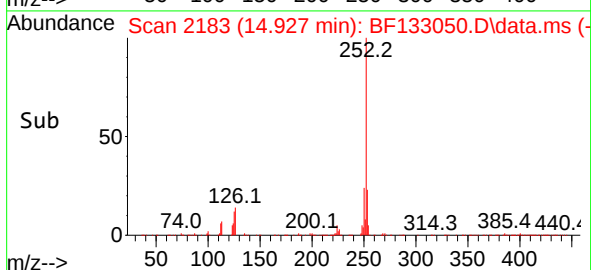
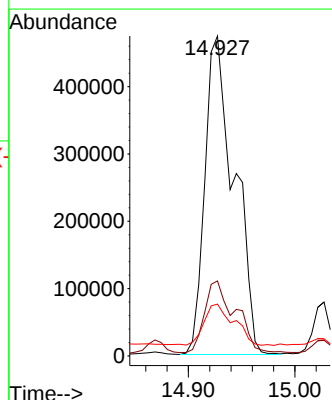
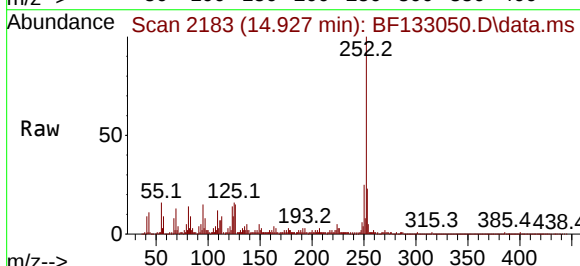
Tgt Ion:252 Resp: 910673

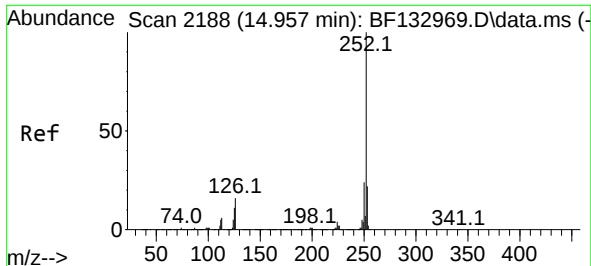
Ion Ratio Lower Upper

252 100

253 23.5 17.6 26.4

125 16.2 8.9 13.3#

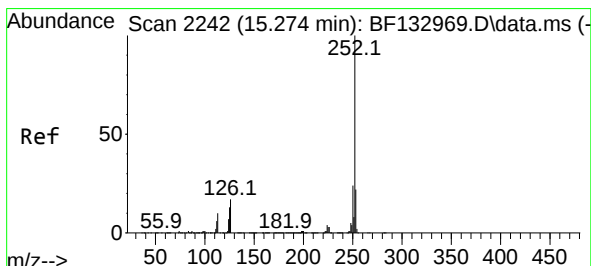
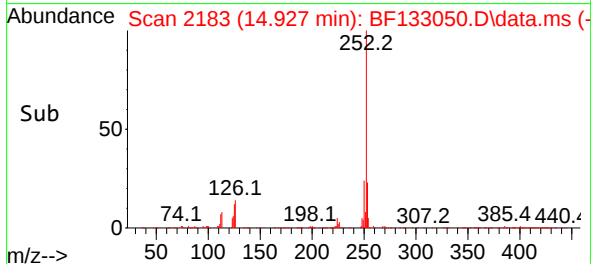
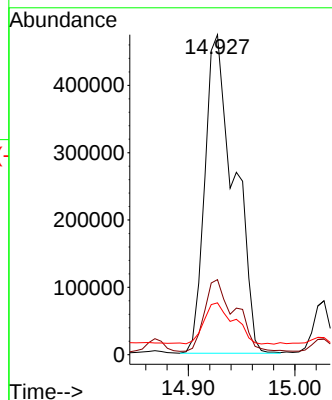
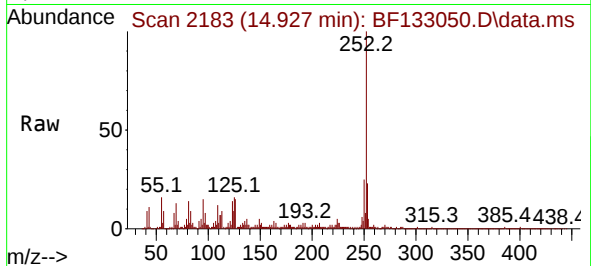




#89  
Benzo(k)fluoranthene  
Concen: 44.128 ng  
RT: 14.927 min Scan# 2188  
Delta R.T. -0.012 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

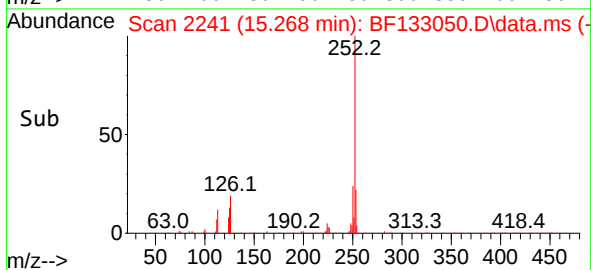
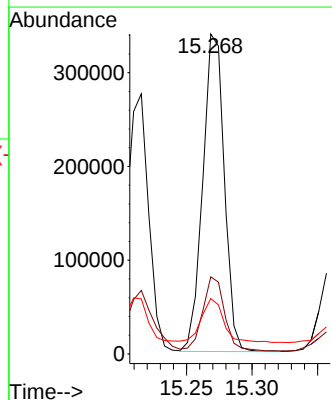
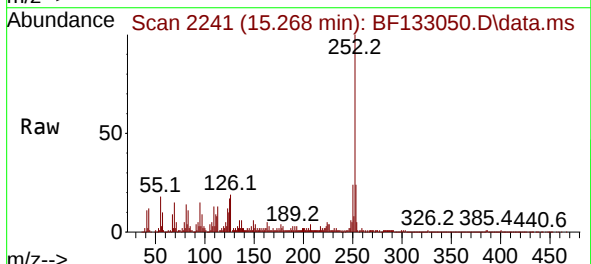
Instrument :  
BNA\_F  
ClientSampleId :  
SPB-8WC-23-04-17

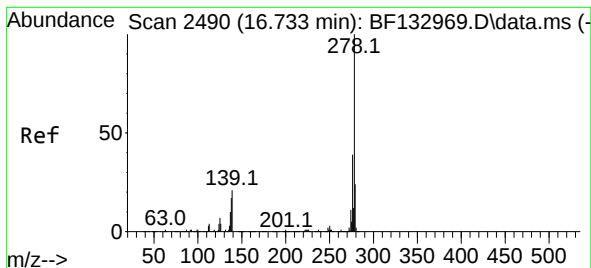
Tgt Ion:252 Resp: 910673  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.7 26.5  
125 16.2 9.0 13.4#



#90  
Benzo(a)pyrene  
Concen: 20.488 ng  
RT: 15.268 min Scan# 2241  
Delta R.T. 0.006 min  
Lab File: BF133050.D  
Acq: 26 Apr 2023 03:06

Tgt Ion:252 Resp: 388230  
Ion Ratio Lower Upper  
252 100  
253 24.1 17.7 26.5  
125 17.3 10.5 15.7#





#91

Dibenzo(a,h)anthracene

Concen: 4.647 ng

RT: 16.733 min Scan# 2490

Delta R.T. 0.012 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

Instrument :

BNA\_F

ClientSampleId :

SPB-8WC-23-04-17

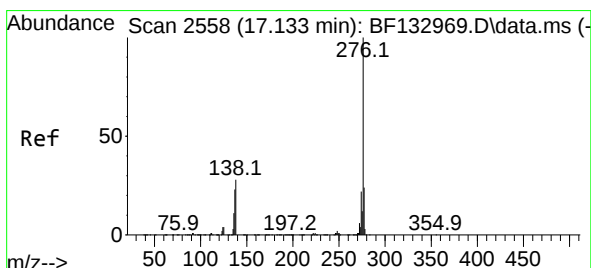
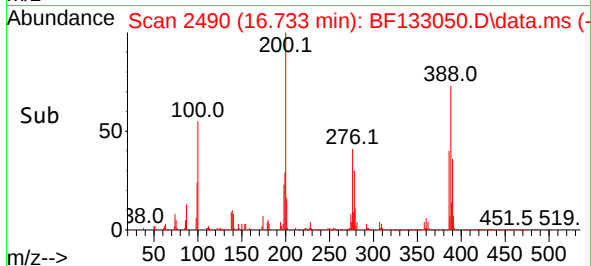
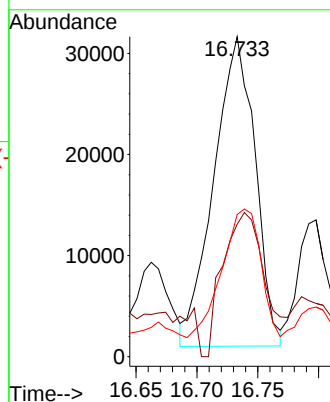
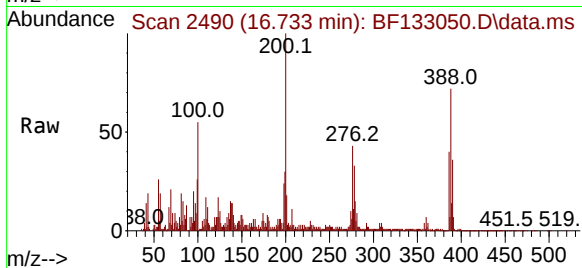
Tgt Ion:278 Resp: 72147

Ion Ratio Lower Upper

278 100

139 41.3 16.6 24.8#

279 44.4 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 16.222 ng

RT: 17.133 min Scan# 2558

Delta R.T. 0.012 min

Lab File: BF133050.D

Acq: 26 Apr 2023 03:06

Tgt Ion:276 Resp: 248642

Ion Ratio Lower Upper

276 100

277 24.4 19.4 29.0

138 26.5 22.7 34.1

