

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF042423\  
 Data File : BF133021.D  
 Acq On : 25 Apr 2023 04:30  
 Operator : CG\JU  
 Sample : 02470-10  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-09-COMP

Quant Time: Apr 25 05:42:37 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF042123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Apr 22 03:30:56 2023  
 Response via : Initial Calibration

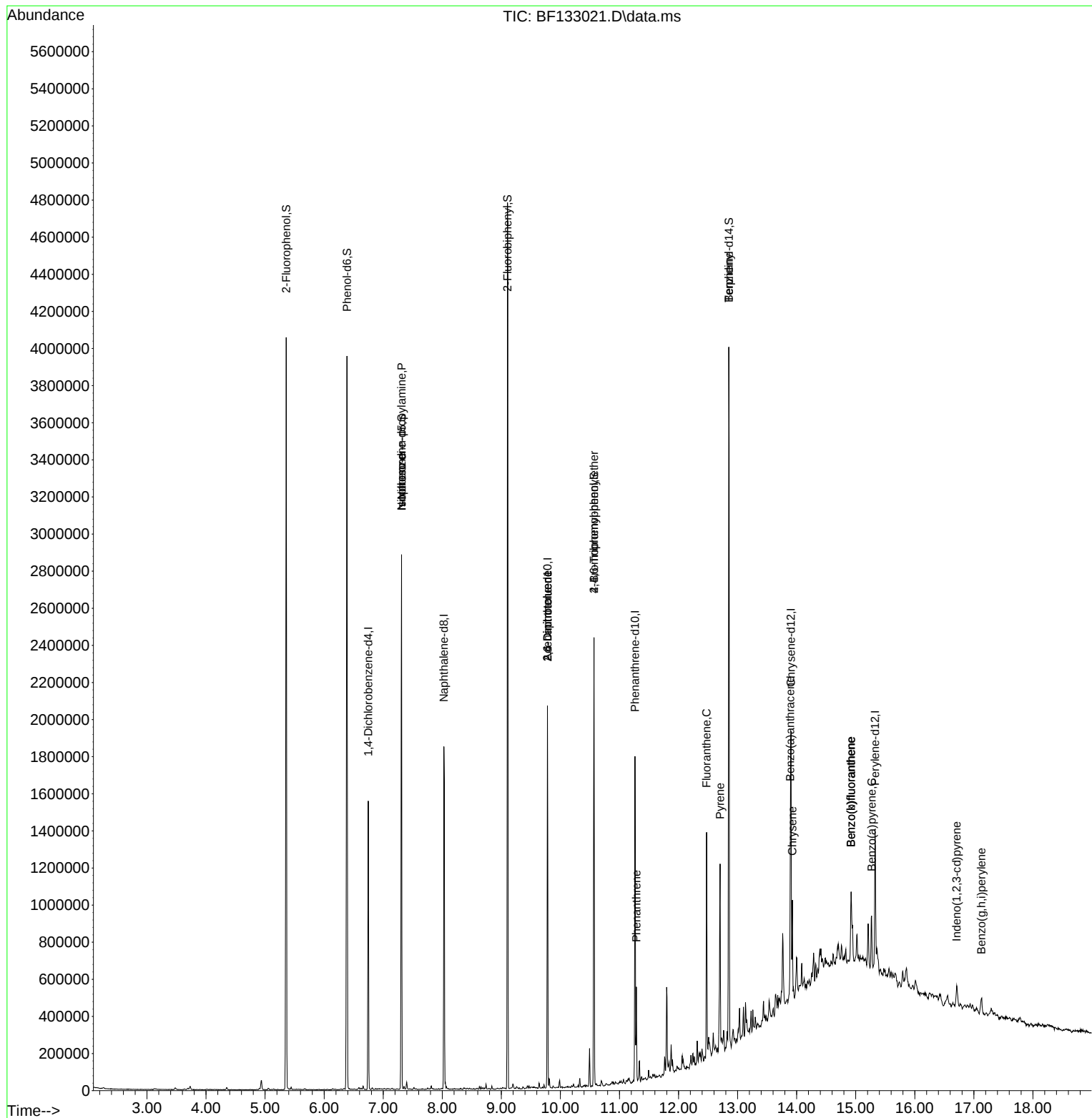
| Compound                      | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|--------|----------|
| Internal Standards            |        |      |          |           |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.745  | 152  | 197783   | 20.000    | ng     | 0.00     |
| 21) Naphthalene-d8            | 8.028  | 136  | 757201   | 20.000    | ng     | -0.01    |
| 39) Acenaphthene-d10          | 9.781  | 164  | 359119   | 20.000    | ng     | -0.01    |
| 64) Phenanthrene-d10          | 11.263 | 188  | 564156   | 20.000    | ng     | 0.00     |
| 76) Chrysene-d12              | 13.904 | 240  | 398529   | 20.000    | ng     | 0.00     |
| 86) Perylene-d12              | 15.327 | 264  | 324613   | 20.000    | ng     | 0.00     |
| System Monitoring Compounds   |        |      |          |           |        |          |
| 5) 2-Fluorophenol             | 5.357  | 112  | 1121121  | 85.628    | ng     | 0.00     |
| 7) Phenol-d6                  | 6.387  | 99   | 1328560  | 81.752    | ng     | 0.00     |
| 23) Nitrobenzene-d5           | 7.310  | 82   | 795077   | 56.677    | ng     | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.569 | 330  | 261425   | 72.384    | ng     | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.104  | 172  | 1418860  | 66.099    | ng     | -0.01    |
| 79) Terphenyl-d14             | 12.851 | 244  | 1306770  | 56.552    | ng     | -0.01    |
| Target Compounds              |        |      |          |           |        |          |
| 9) Benzaldehyde               | 6.287  | 77   | 801      | Below Cal | Qvalue | # 85     |
| 19) n-Nitroso-di-n-propyla... | 7.310  | 70   | 106321   | 10.509 ng | #      | 78       |
| 25) Isophorone                | 7.310  | 82   | 793779   | 29.802 ng | #      | 63       |
| 51) 2,6-Dinitrotoluene        | 9.781  | 165  | 46924    | 8.326 ng  | #      | 25       |
| 57) 2,4-Dinitrotoluene        | 9.781  | 165  | 46924    | 6.529 ng  | #      | 23       |
| 67) 4-Bromophenyl-phenylether | 10.569 | 248  | 16787    | 2.744 ng  | #      | 1        |
| 71) Phenanthrene              | 11.286 | 178  | 158219   | 5.218 ng  |        | 98       |
| 75) Fluoranthene              | 12.475 | 202  | 412541   | 13.556 ng |        | 100      |
| 77) Benzidine                 | 12.851 | 184  | 14604    | 2.167 ng  |        | 94       |
| 78) Pyrene                    | 12.704 | 202  | 388440   | 11.370 ng |        | 98       |
| 81) Benzo(a)anthracene        | 13.892 | 228  | 210401   | 7.677 ng  |        | 97       |
| 83) Chrysene                  | 13.927 | 228  | 187540   | 6.845 ng  |        | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.710 | 276  | 70083    | 3.796 ng  |        | 96       |
| 88) Benzo(b)fluoranthene      | 14.921 | 252  | 263413   | 12.755 ng | #      | 88       |
| 89) Benzo(k)fluoranthene      | 14.921 | 252  | 263413   | 12.867 ng | #      | 88       |
| 90) Benzo(a)pyrene            | 15.268 | 252  | 132173   | 7.032 ng  | #      | 93       |
| 92) Benzo(g,h,i)perylene      | 17.127 | 276  | 63253    | 4.160 ng  |        | 95       |

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

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Sample : 02470-10  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-09-COMP

Quant Time: Apr 25 05:42:37 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF042123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Apr 22 03:30:56 2023  
Response via : Initial Calibration

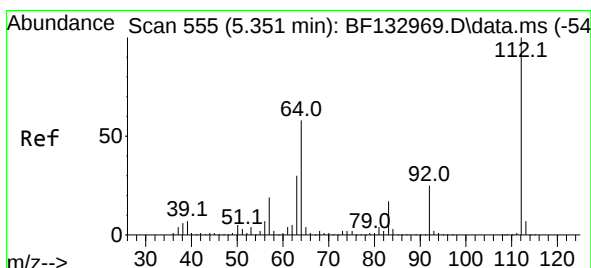
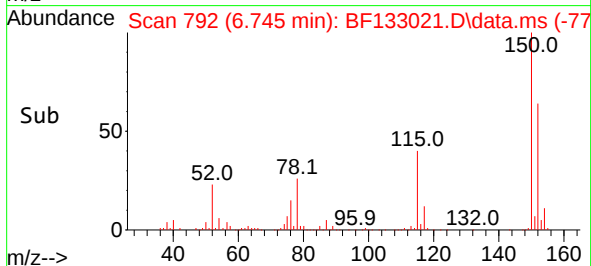
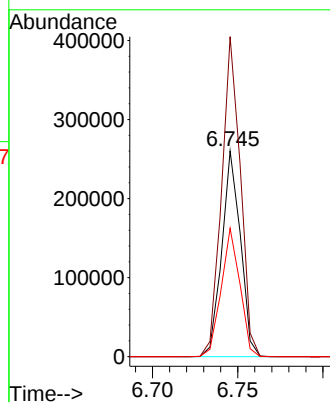
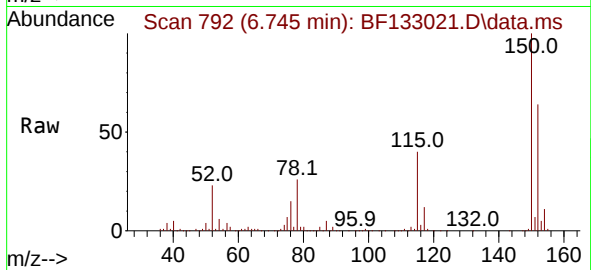




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.745 min Scan# 793  
 Delta R.T. -0.006 min  
 Lab File: BF133021.D  
 Acq: 25 Apr 2023 04:30

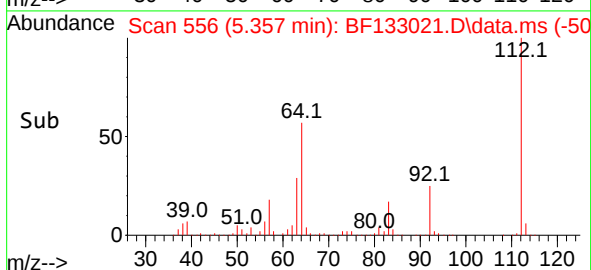
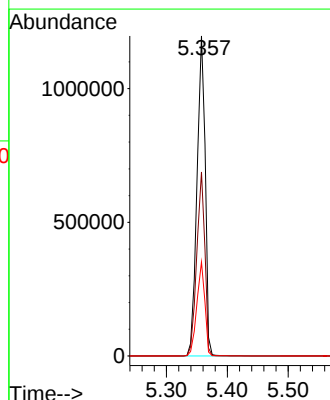
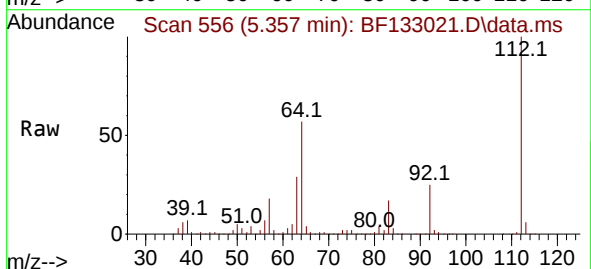
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-09-COMP

Tgt Ion:152 Resp: 197783  
 Ion Ratio Lower Upper  
 152 100  
 150 155.5 124.8 187.2  
 115 62.4 49.9 74.9



#5  
 2-Fluorophenol  
 Concen: 85.628 ng  
 RT: 5.357 min Scan# 556  
 Delta R.T. 0.006 min  
 Lab File: BF133021.D  
 Acq: 25 Apr 2023 04:30

Tgt Ion:112 Resp: 1121121  
 Ion Ratio Lower Upper  
 112 100  
 64 57.5 46.8 70.2  
 63 29.4 23.8 35.8

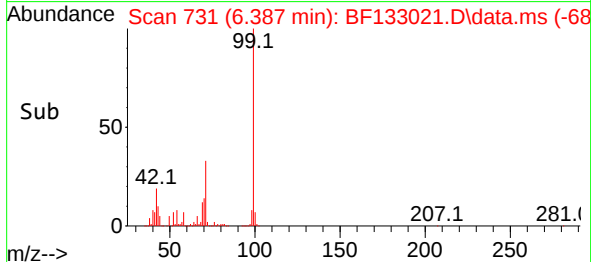
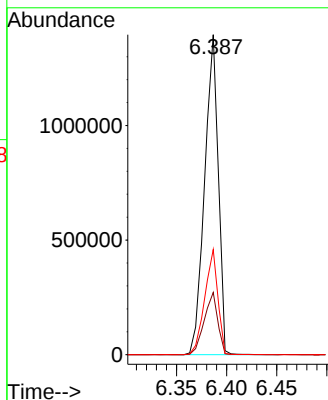
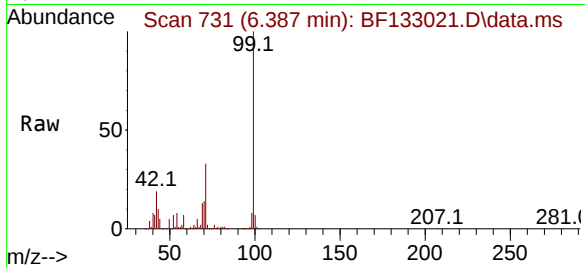




#7  
Phenol-d6  
Concen: 81.752 ng  
RT: 6.387 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

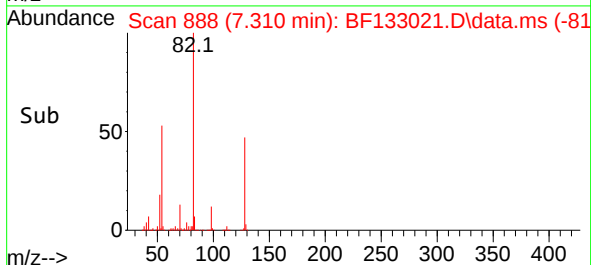
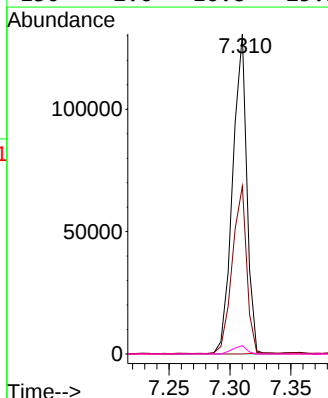
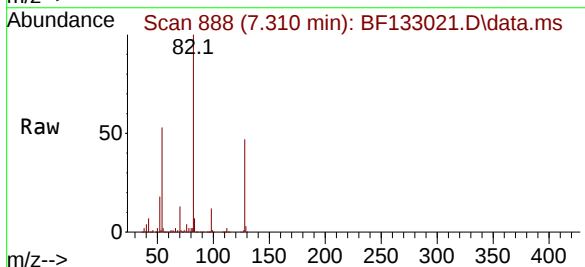
Instrument :  
BNA\_F  
ClientSampleId :  
SB-09-COMP

Tgt Ion: 99 Resp: 1328560  
Ion Ratio Lower Upper  
99 100  
42 19.5 16.3 24.5  
71 32.9 25.6 38.4



#19  
n-Nitroso-di-n-propylamine  
Concen: 10.509 ng  
RT: 7.310 min Scan# 888  
Delta R.T. 0.135 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

Tgt Ion: 70 Resp: 106321  
Ion Ratio Lower Upper  
70 100  
42 52.5 51.8 77.6  
101 0.0 8.0 12.0#  
130 2.6 16.8 25.2#





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.028 min Scan# 1012  
Delta R.T. -0.012 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

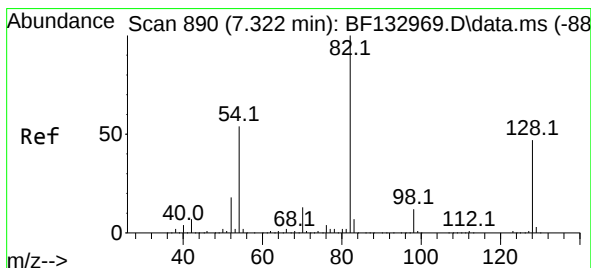
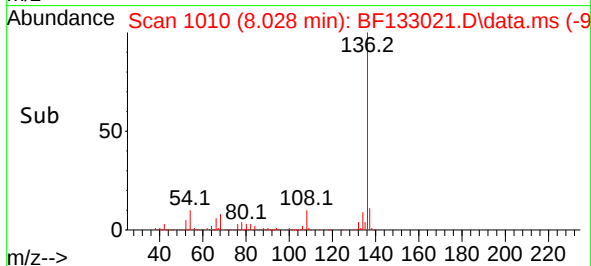
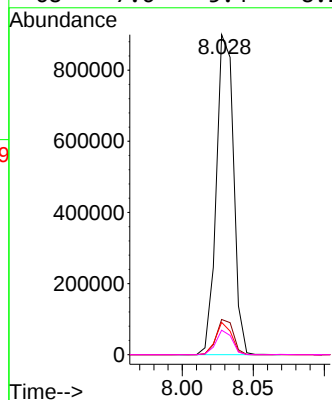
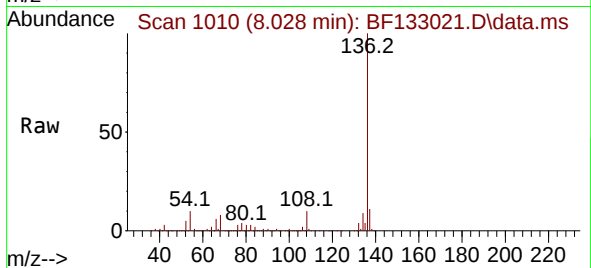
Instrument :

BNA\_F

ClientSampleId :

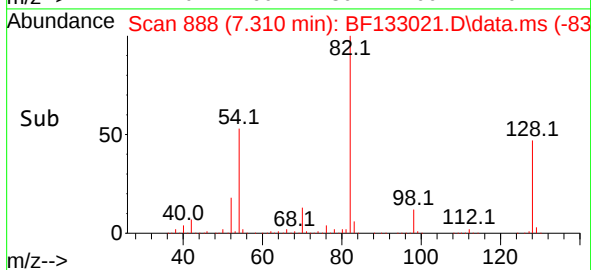
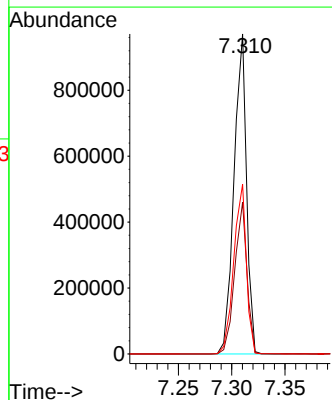
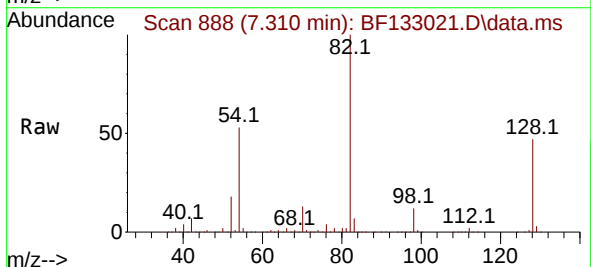
SB-09-COMP

Tgt Ion:136 Resp: 757201  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.6 13.0  
54 10.1 7.0 10.4  
68 7.6 5.4 8.2



#23  
Nitrobenzene-d5  
Concen: 56.677 ng  
RT: 7.310 min Scan# 888  
Delta R.T. -0.012 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

Tgt Ion: 82 Resp: 795077  
Ion Ratio Lower Upper  
82 100  
128 47.5 37.7 56.5  
54 53.1 43.0 64.4

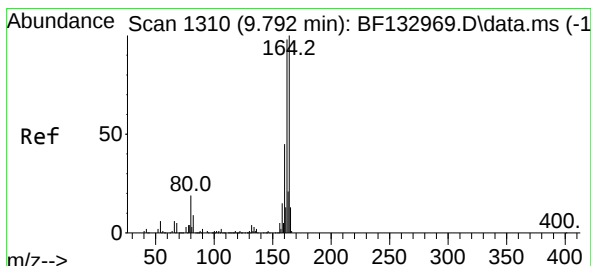
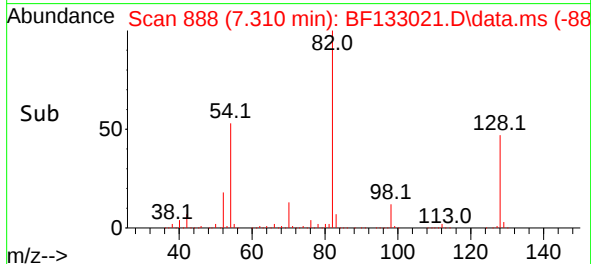
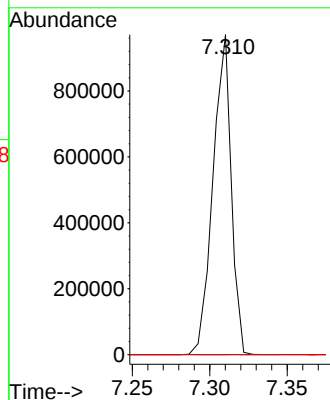
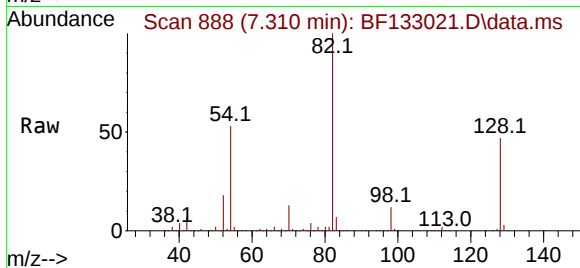




#25  
Isophorone  
Concen: 29.802 ng  
RT: 7.310 min Scan# 81  
Delta R.T. -0.270 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

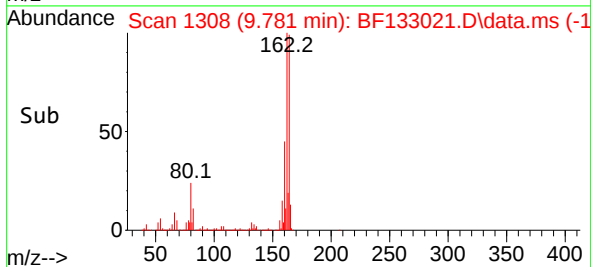
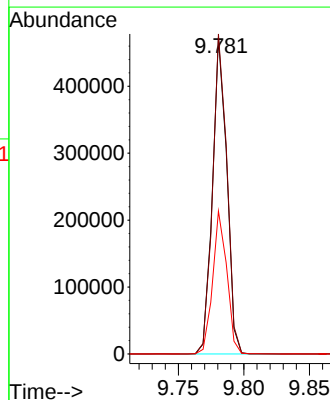
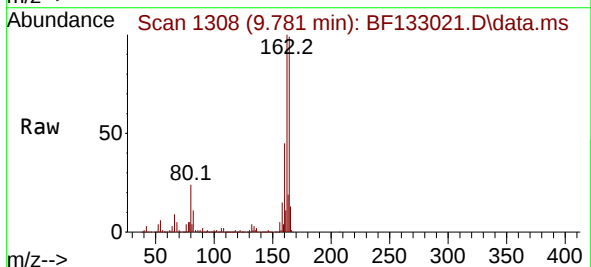
Instrument :  
BNA\_F  
ClientSampleId :  
SB-09-COMP

Tgt Ion: 82 Resp: 793779  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.0#  
138 0.0 16.0 24.0#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.781 min Scan# 1308  
Delta R.T. -0.012 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

Tgt Ion:164 Resp: 359119  
Ion Ratio Lower Upper  
164 100  
162 101.2 78.7 118.1  
160 45.2 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 72.384 ng

RT: 10.569 min Scan# 1444

Delta R.T. -0.012 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

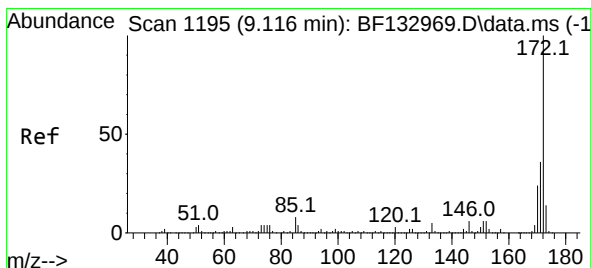
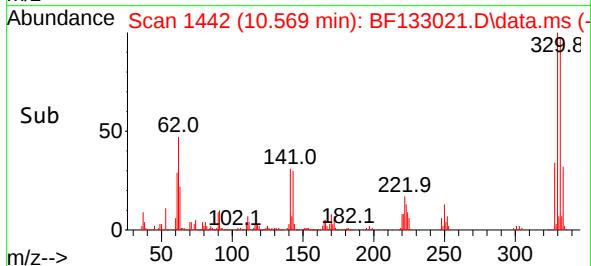
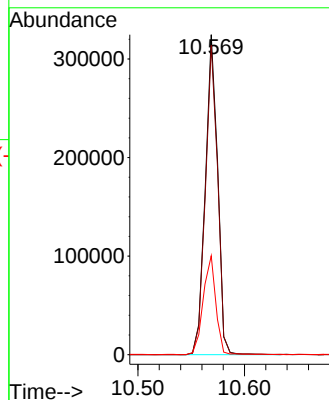
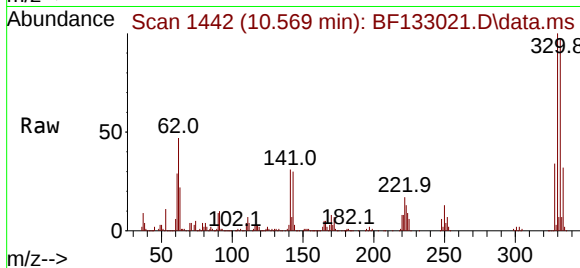
Tgt Ion:330 Resp: 261425

Ion Ratio Lower Upper

330 100

332 96.8 77.1 115.7

141 31.9 25.8 38.8



#45

2-Fluorobiphenyl

Concen: 66.099 ng

RT: 9.104 min Scan# 1193

Delta R.T. -0.012 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

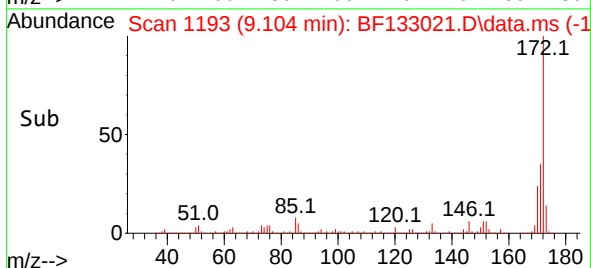
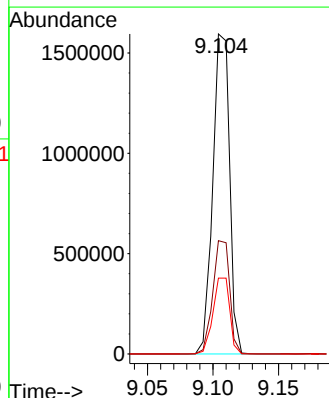
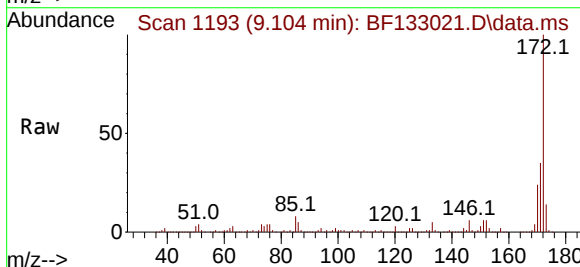
Tgt Ion:172 Resp: 1418860

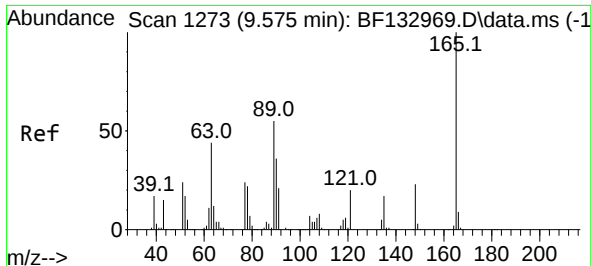
Ion Ratio Lower Upper

172 100

171 35.4 28.8 43.2

170 23.7 19.4 29.2

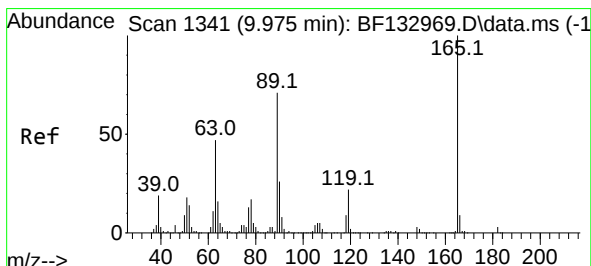
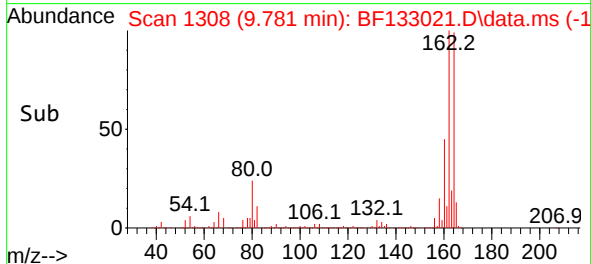
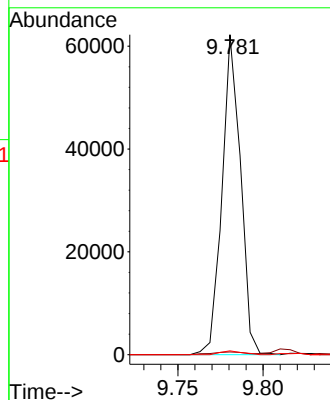
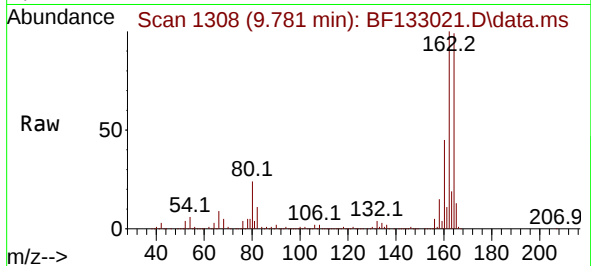




#51  
2,6-Dinitrotoluene  
Concen: 8.326 ng  
RT: 9.781 min Scan# 11  
Delta R.T. 0.206 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

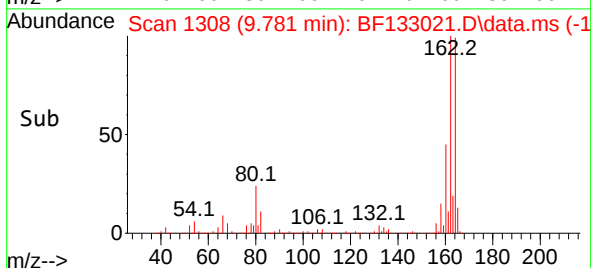
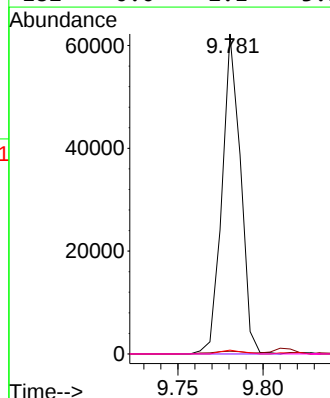
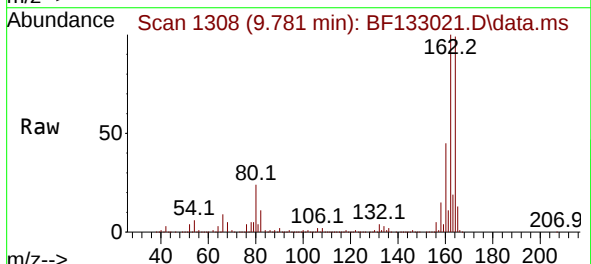
Instrument :  
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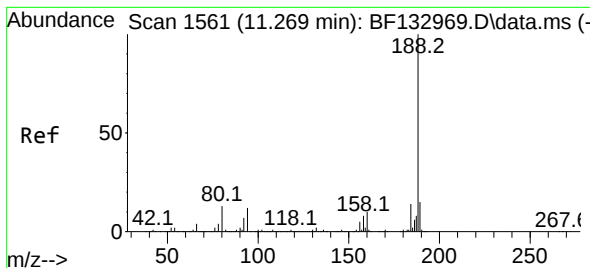
Tgt Ion:165 Resp: 46924  
Ion Ratio Lower Upper  
165 100  
63 0.9 45.9 68.9#  
89 1.2 44.0 66.0#



#57  
2,4-Dinitrotoluene  
Concen: 6.529 ng  
RT: 9.781 min Scan# 1308  
Delta R.T. -0.194 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

Tgt Ion:165 Resp: 46924  
Ion Ratio Lower Upper  
165 100  
63 0.9 37.7 56.5#  
89 1.2 57.0 85.4#  
182 0.0 2.1 3.1#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.263 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

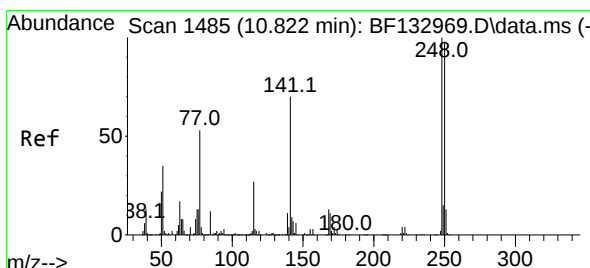
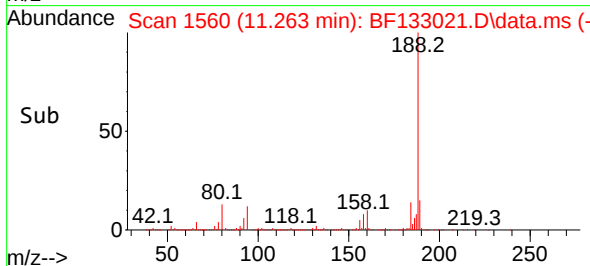
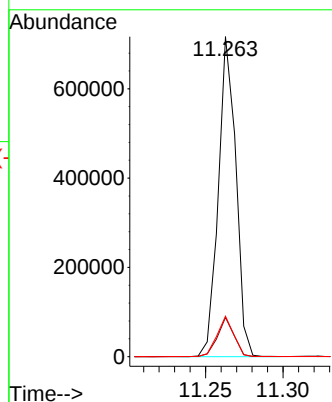
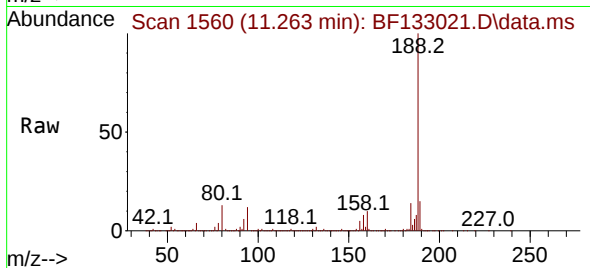
Tgt Ion:188 Resp: 564156

Ion Ratio Lower Upper

188 100

94 12.3 9.7 14.5

80 12.7 10.4 15.6



#67

4-Bromophenyl-phenylether

Concen: 2.744 ng

RT: 10.569 min Scan# 1442

Delta R.T. -0.253 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

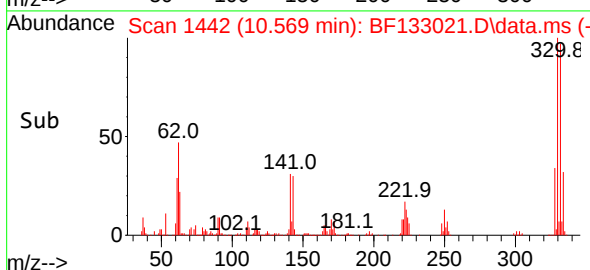
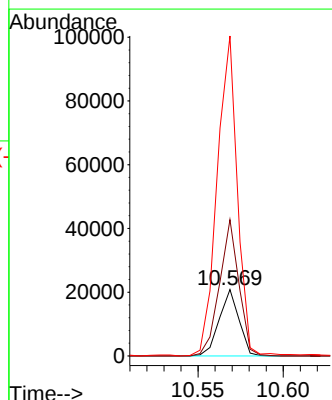
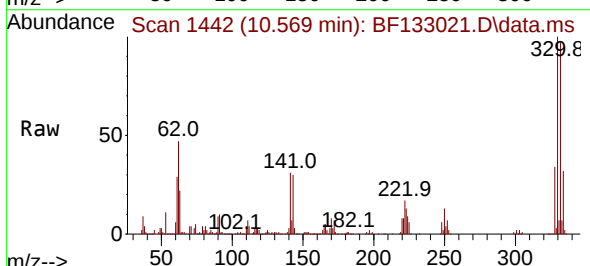
Tgt Ion:248 Resp: 16787

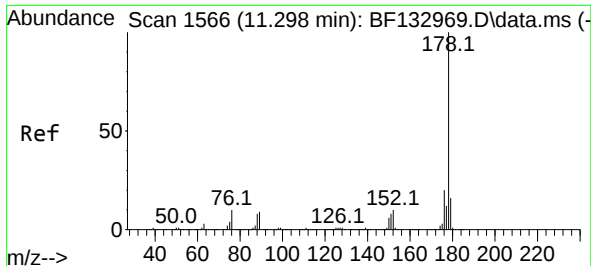
Ion Ratio Lower Upper

248 100

250 205.3 78.7 118.1#

141 482.1 56.3 84.5#

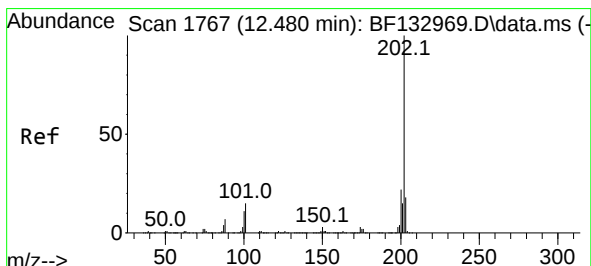
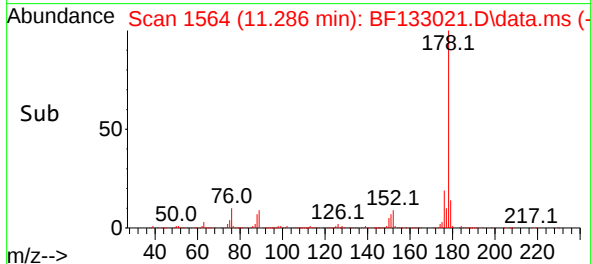
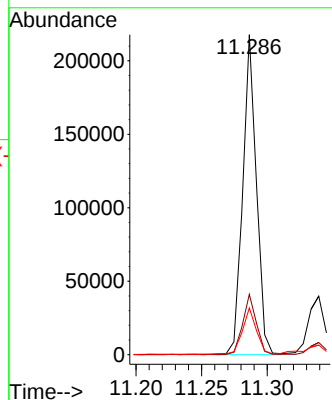
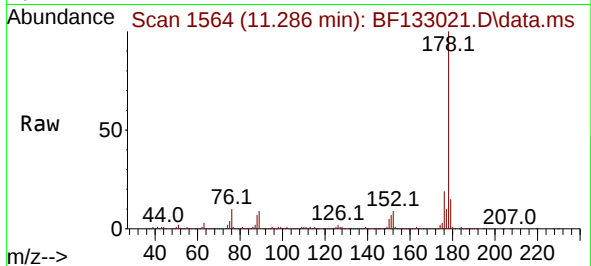




#71  
Phenanthrene  
Concen: 5.218 ng  
RT: 11.286 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

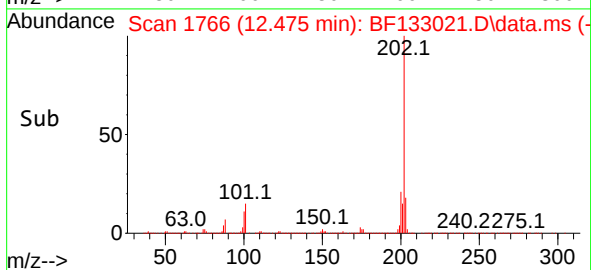
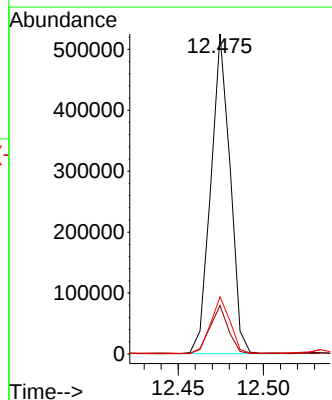
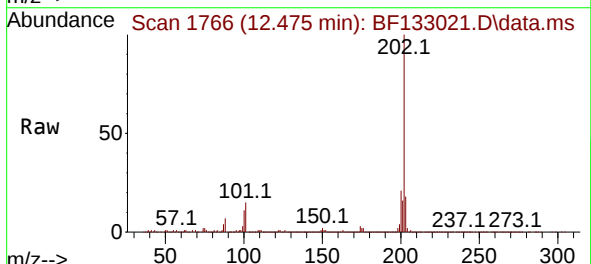
Instrument :  
BNA\_F  
ClientSampleId :  
SB-09-COMP

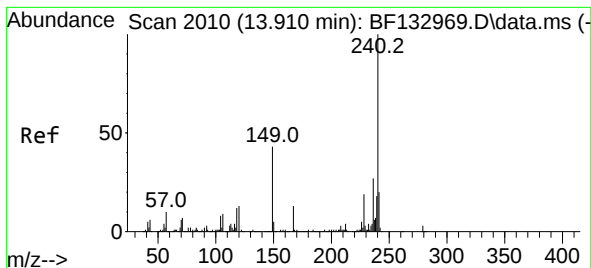
Tgt Ion:178 Resp: 158219  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.9 23.9  
179 14.6 12.5 18.7



#75  
Fluoranthene  
Concen: 13.556 ng  
RT: 12.475 min Scan# 1766  
Delta R.T. -0.006 min  
Lab File: BF133021.D  
Acq: 25 Apr 2023 04:30

Tgt Ion:202 Resp: 412541  
Ion Ratio Lower Upper  
202 100  
101 15.1 0.0 35.3  
203 17.8 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: BF133021.D

Acq: 25 Apr 2023 04:30

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

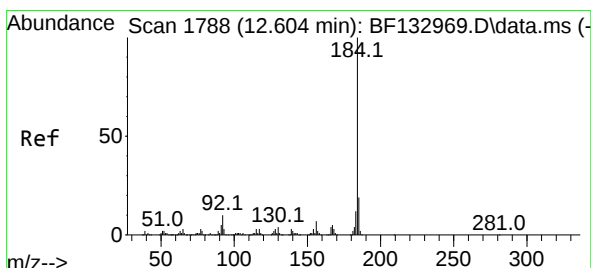
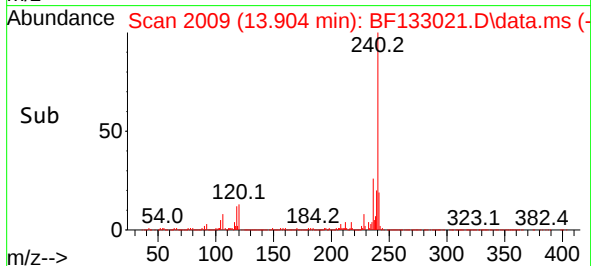
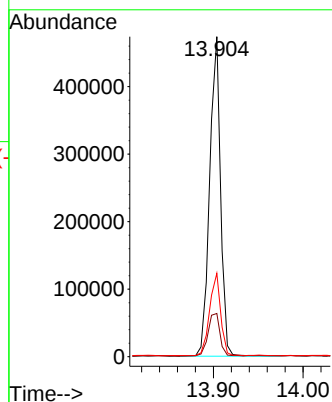
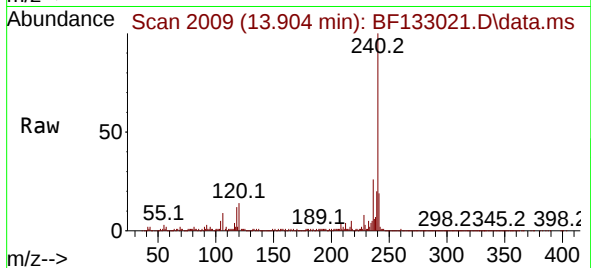
Tgt Ion:240 Resp: 398529

Ion Ratio Lower Upper

240 100

120 13.5 10.5 15.7

236 26.1 21.5 32.3



#77

Benzidine

Concen: 2.167 ng

RT: 12.851 min Scan# 1830

Delta R.T. 0.247 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

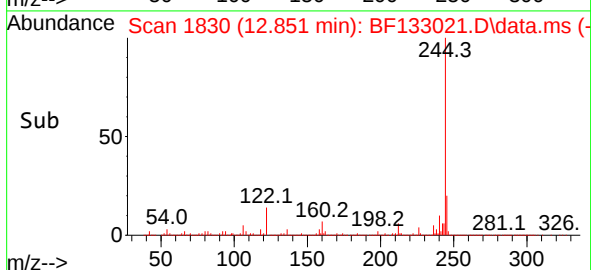
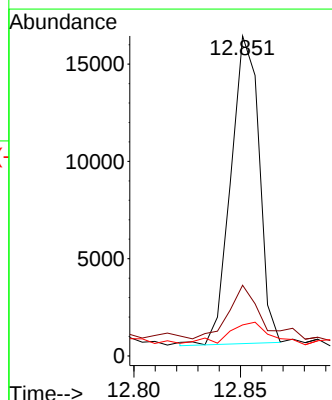
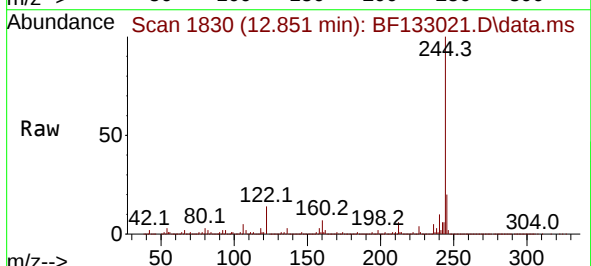
Tgt Ion:184 Resp: 14604

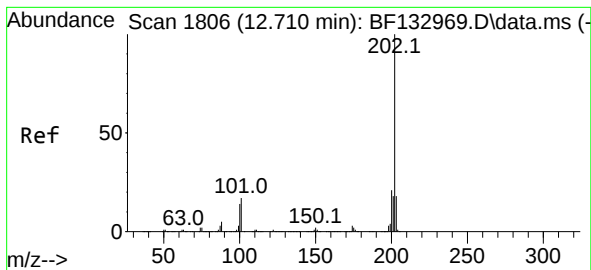
Ion Ratio Lower Upper

184 100

185 22.1 15.4 23.2

183 9.7 9.4 14.0





#78

Pyrene

Concen: 11.370 ng

RT: 12.704 min Scan# 1805

Delta R.T. -0.006 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

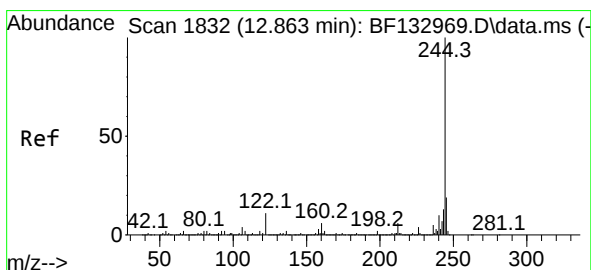
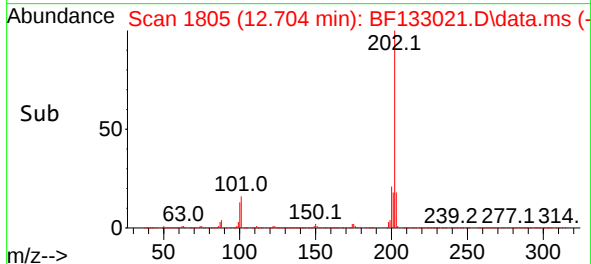
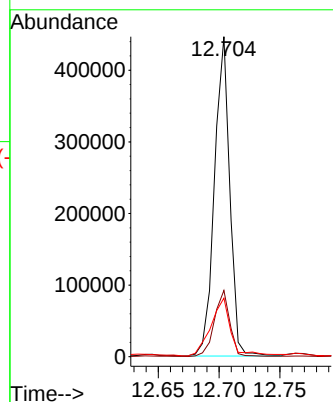
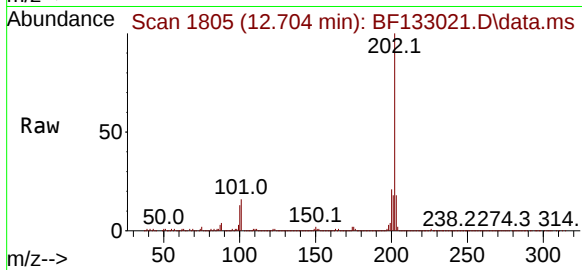
Tgt Ion:202 Resp: 388440

Ion Ratio Lower Upper

202 100

200 20.7 17.1 25.7

203 18.3 14.1 21.1



#79

Terphenyl-d14

Concen: 56.552 ng

RT: 12.851 min Scan# 1830

Delta R.T. -0.012 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

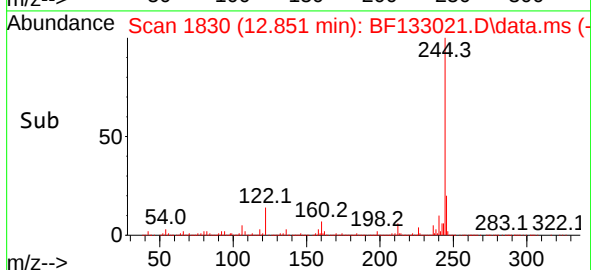
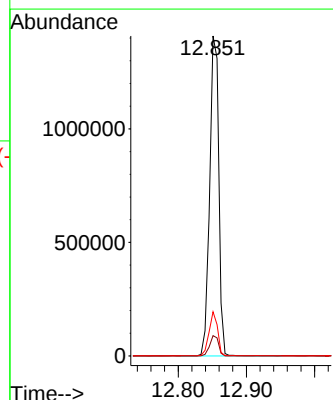
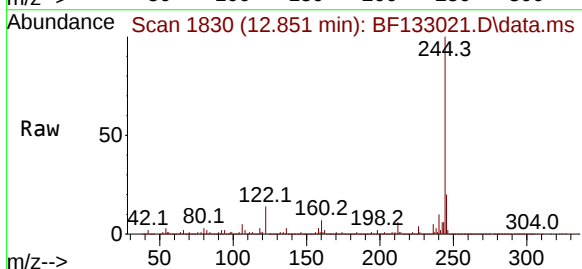
Tgt Ion:244 Resp: 1306770

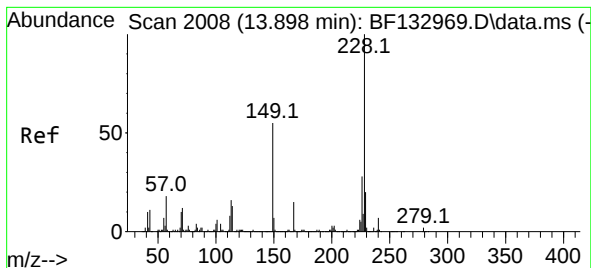
Ion Ratio Lower Upper

244 100

212 6.4 5.1 7.7

122 13.8 8.6 13.0#





#81

Benzo(a)anthracene

Concen: 7.677 ng

RT: 13.892 min Scan# 2008

Delta R.T. -0.006 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

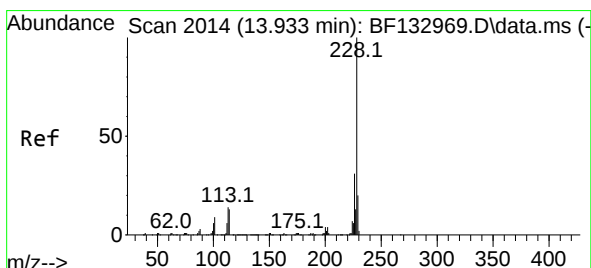
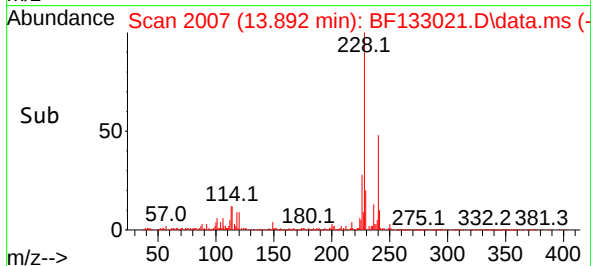
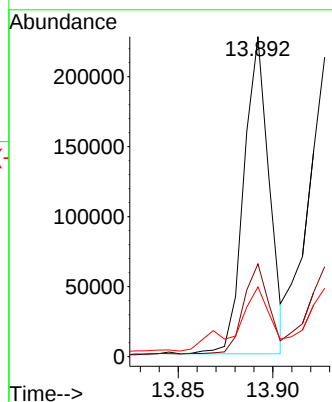
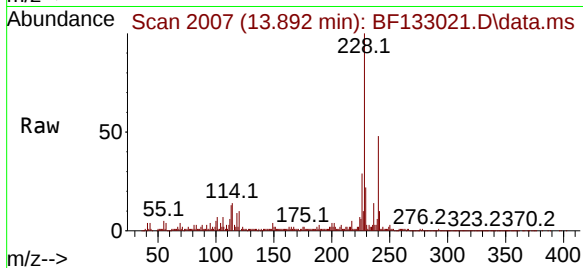
Tgt Ion:228 Resp: 210401

Ion Ratio Lower Upper

228 100

226 29.0 22.2 33.4

229 21.8 16.0 24.0



#83

Chrysene

Concen: 6.845 ng

RT: 13.927 min Scan# 2013

Delta R.T. -0.006 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

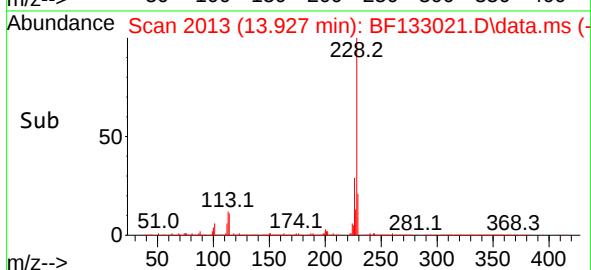
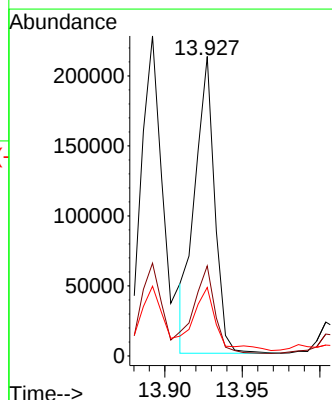
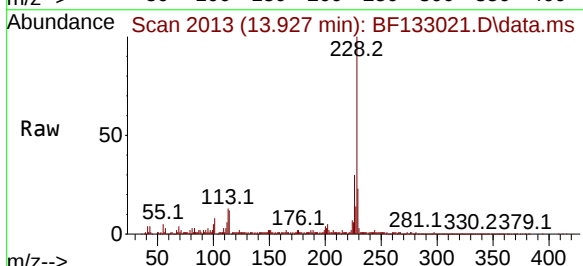
Tgt Ion:228 Resp: 187540

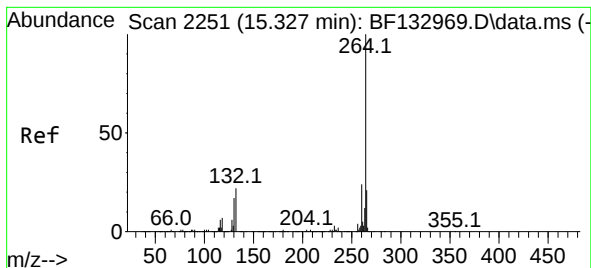
Ion Ratio Lower Upper

228 100

226 30.1 24.7 37.1

229 22.9 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.327 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

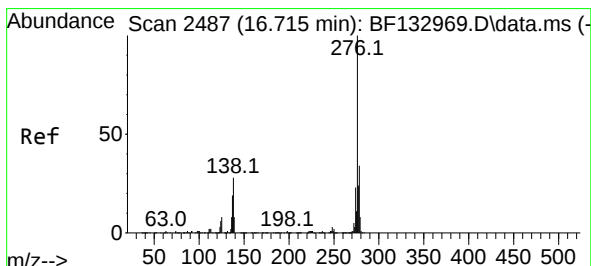
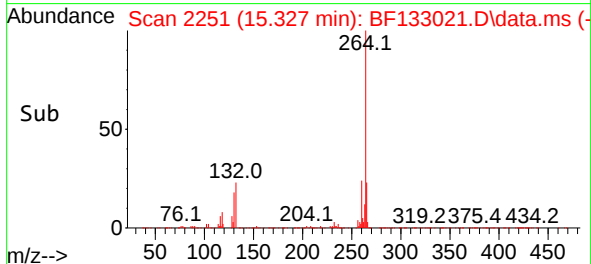
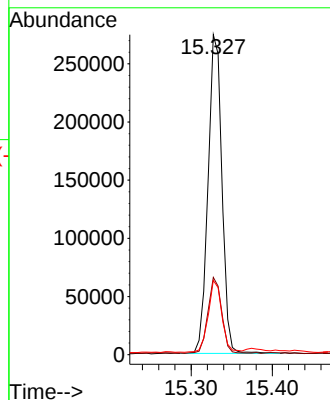
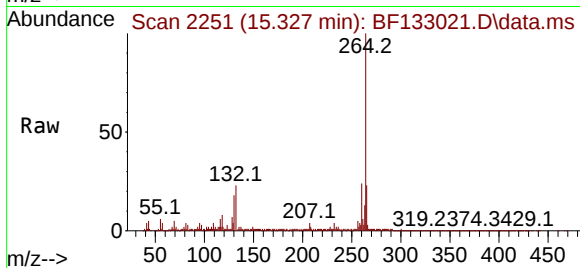
Tgt Ion:264 Resp: 324613

Ion Ratio Lower Upper

264 100

260 24.1 18.8 28.2

265 23.2 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.796 ng

RT: 16.710 min Scan# 2486

Delta R.T. -0.006 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

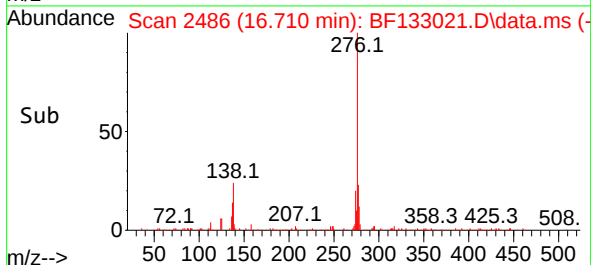
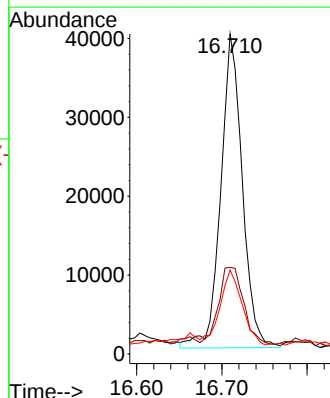
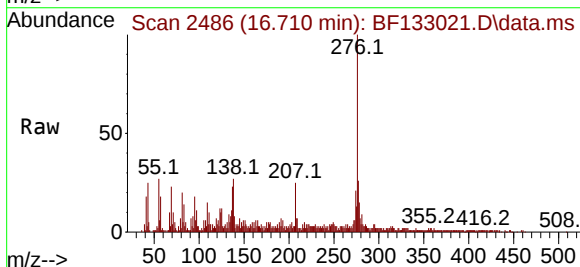
Tgt Ion:276 Resp: 70083

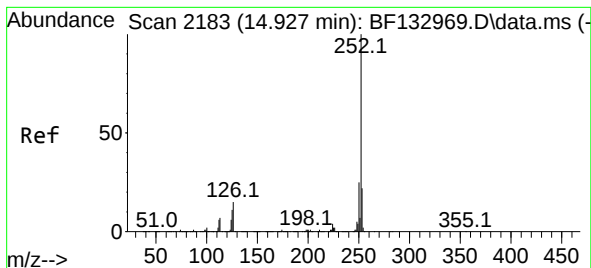
Ion Ratio Lower Upper

276 100

138 29.9 25.5 38.3

277 23.8 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 12.755 ng

RT: 14.921 min Scan# 2182

Delta R.T. -0.006 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

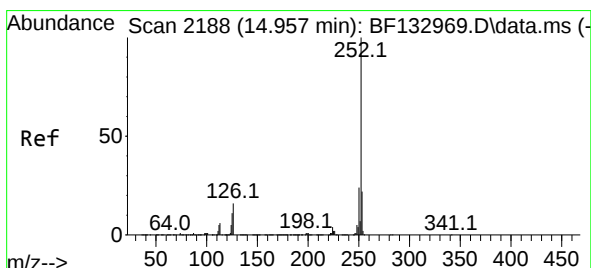
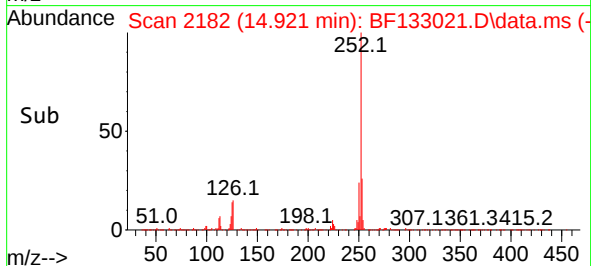
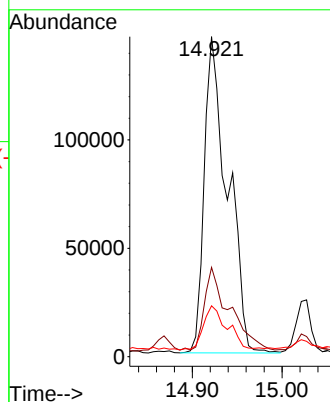
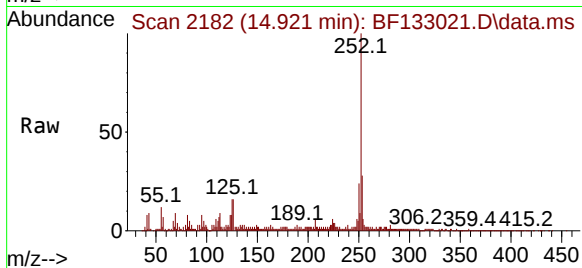
Tgt Ion:252 Resp: 263413

Ion Ratio Lower Upper

252 100

253 27.9 17.6 26.4#

125 15.9 8.9 13.3#



#89

Benzo(k)fluoranthene

Concen: 12.867 ng

RT: 14.921 min Scan# 2182

Delta R.T. -0.035 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

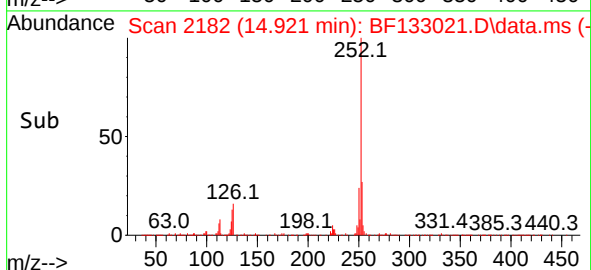
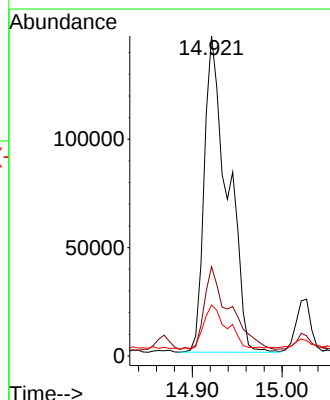
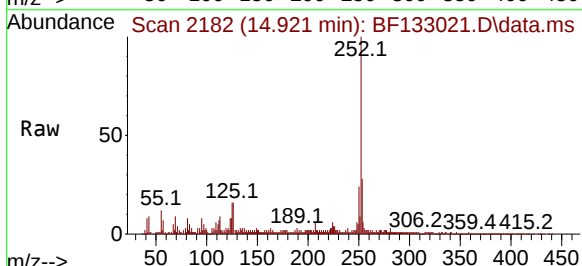
Tgt Ion:252 Resp: 263413

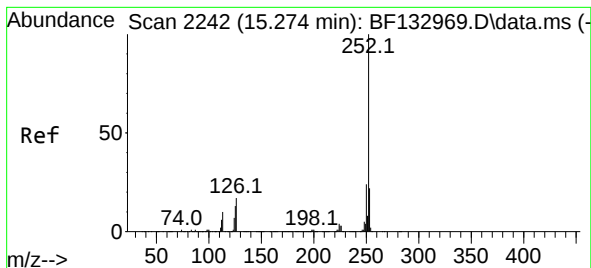
Ion Ratio Lower Upper

252 100

253 27.9 17.7 26.5#

125 15.9 9.0 13.4#





#90

Benzo(a)pyrene

Concen: 7.032 ng

RT: 15.268 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

Instrument :

BNA\_F

ClientSampleId :

SB-09-COMP

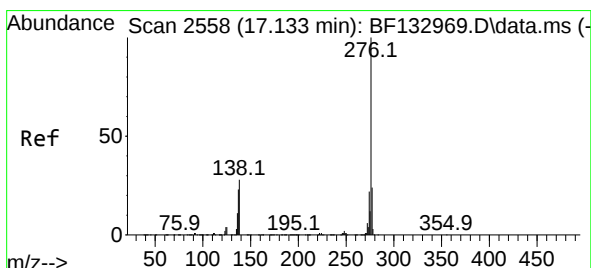
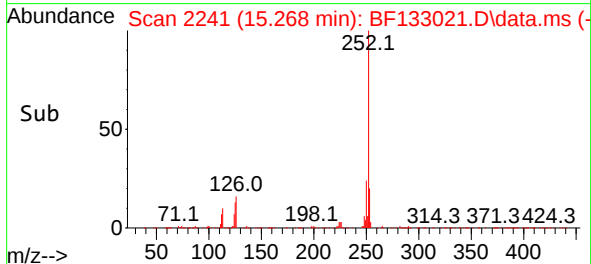
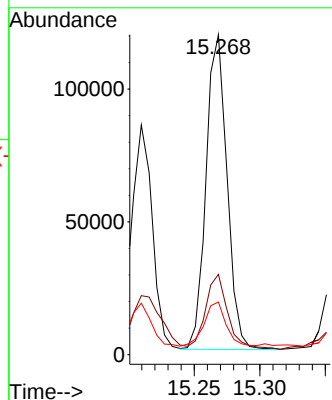
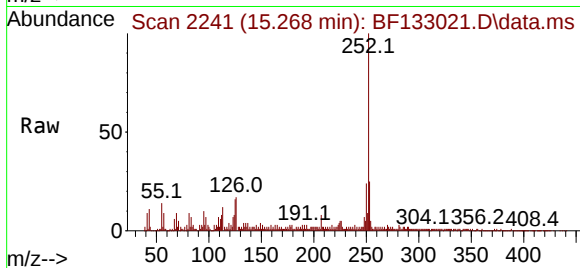
Tgt Ion:252 Resp: 132173

Ion Ratio Lower Upper

252 100

253 25.1 17.7 26.5

125 16.4 10.5 15.7#



#92

Benzo(g,h,i)perylene

Concen: 4.160 ng

RT: 17.127 min Scan# 2557

Delta R.T. -0.006 min

Lab File: BF133021.D

Acq: 25 Apr 2023 04:30

Tgt Ion:276 Resp: 63253

Ion Ratio Lower Upper

276 100

277 26.1 19.4 29.0

138 31.8 22.7 34.1

