

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061623\  
 Data File : BF133821.D  
 Acq On : 16 Jun 2023 23:03  
 Operator : CG\JU  
 Sample : 03224-12 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMPOSIT-SB-15

Quant Time: Jun 17 00:13:53 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 16 14:54:03 2023  
 Response via : Initial Calibration

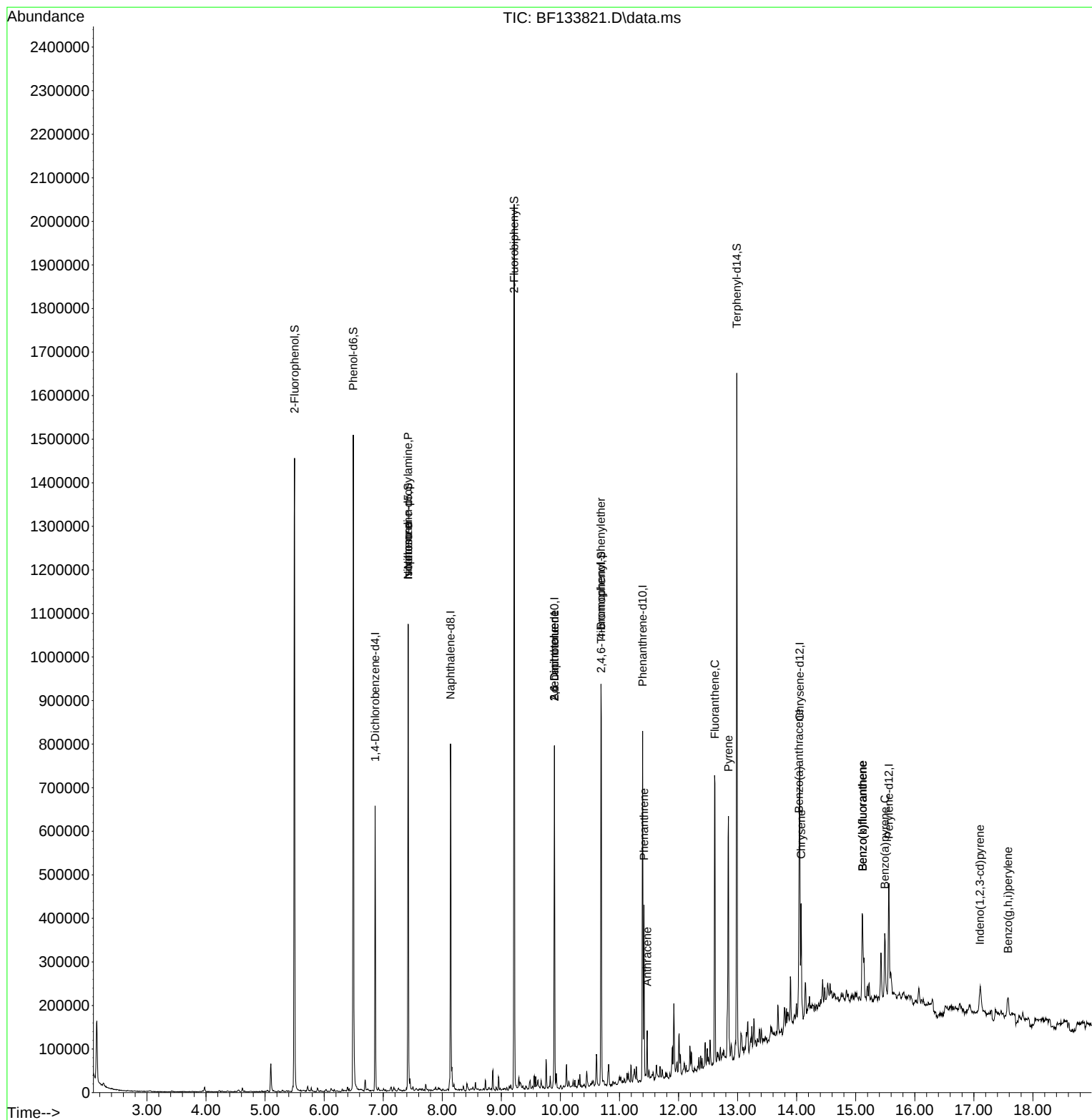
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.863  | 152  | 83358    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.140  | 136  | 333368   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.898  | 164  | 137561   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.392 | 188  | 273296   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 147670   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.563 | 264  | 126985   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.498  | 112  | 380684   | 79.504 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.493  | 99   | 449772   | 72.164 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.422  | 82   | 282102   | 46.091 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.692 | 330  | 104488   | 60.007 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.216  | 172  | 550068   | 56.842 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.986 | 244  | 497160   | 52.094 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.422  | 70   | 39431    | 9.944  | ng    | # 78     |
| 25) Isophorone                | 7.422  | 82   | 282102   | 25.105 | ng    | # 65     |
| 51) 2,6-Dinitrotoluene        | 9.898  | 165  | 18537    | 8.746  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene        | 9.898  | 165  | 18537    | 6.877  | ng    | # 20     |
| 67) 4-Bromophenyl-phenylether | 10.686 | 248  | 6775     | 2.221  | ng    | # 1      |
| 71) Phenanthrene              | 11.416 | 178  | 130763   | 9.431  | ng    | 99       |
| 72) Anthracene                | 11.469 | 178  | 38335    | 2.652  | ng    | 98       |
| 75) Fluoranthene              | 12.616 | 202  | 274041   | 18.611 | ng    | 99       |
| 78) Pyrene                    | 12.845 | 202  | 244902   | 17.803 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.039 | 228  | 116302   | 11.386 | ng    | 99       |
| 83) Chrysene                  | 14.074 | 228  | 100753   | 10.429 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.104 | 276  | 50540    | 5.785  | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 15.116 | 252  | 149947   | 19.439 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.116 | 252  | 149947   | 19.955 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.492 | 252  | 72418    | 10.116 | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 17.580 | 276  | 45239    | 6.309  | ng    | 96       |
| -----                         |        |      |          |        |       |          |

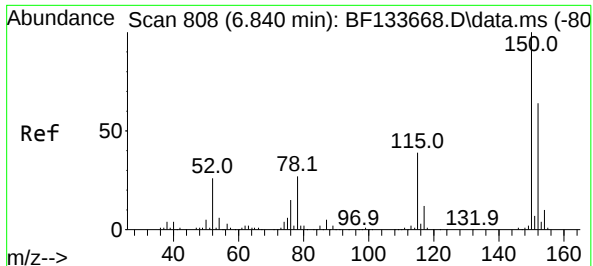
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061623\  
Data File : BF133821.D  
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Sample : 03224-12 2X  
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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-15

Quant Time: Jun 17 00:13:53 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 16 14:54:03 2023  
Response via : Initial Calibration

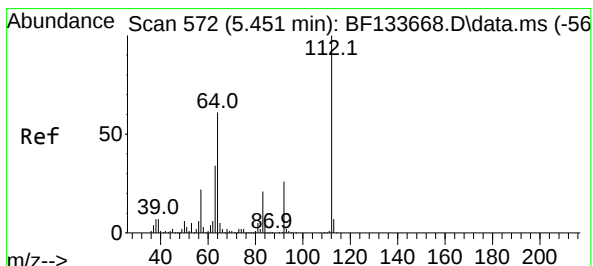
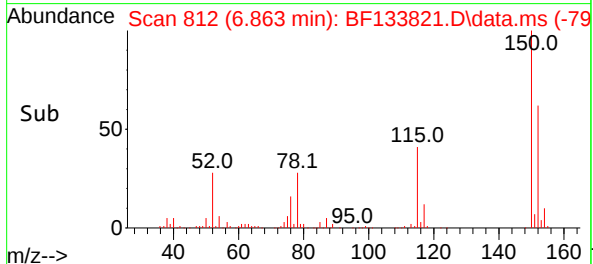
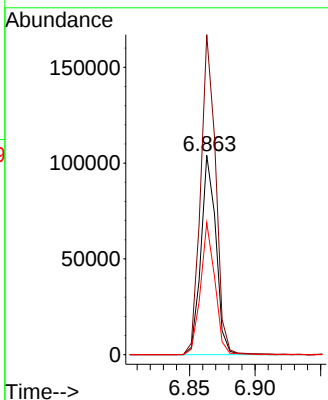
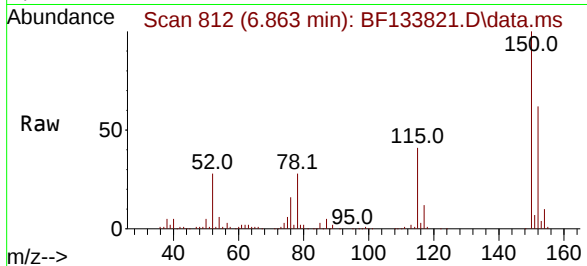




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.863 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

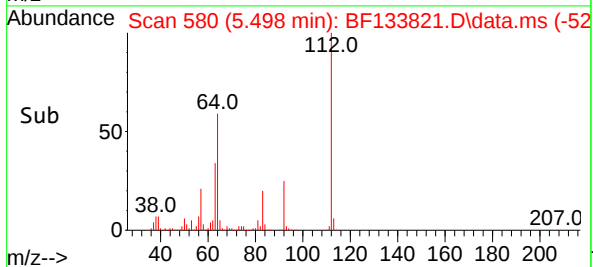
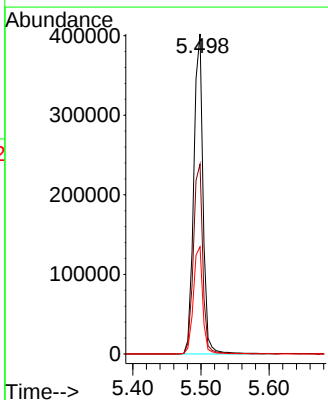
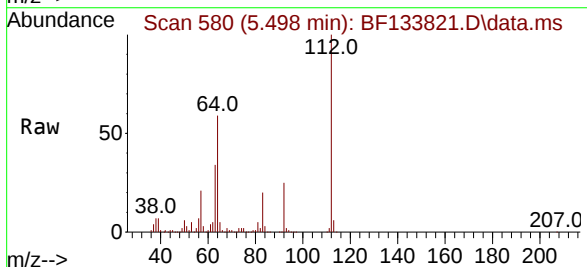
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-15

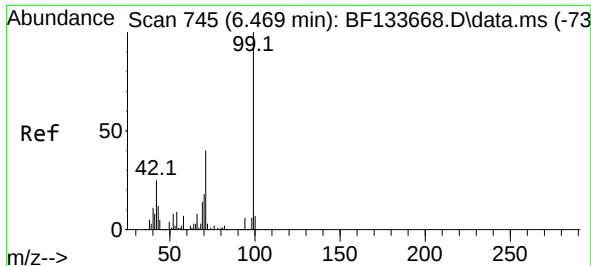
Tgt Ion:152 Resp: 83358  
Ion Ratio Lower Upper  
152 100  
150 160.6 124.3 186.5  
115 66.3 48.5 72.7



#5  
2-Fluorophenol  
Concen: 79.504 ng  
RT: 5.498 min Scan# 580  
Delta R.T. 0.006 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

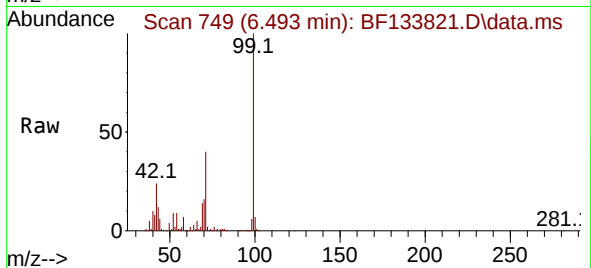
Tgt Ion:112 Resp: 380684  
Ion Ratio Lower Upper  
112 100  
64 59.3 49.0 73.4  
63 33.5 26.8 40.2





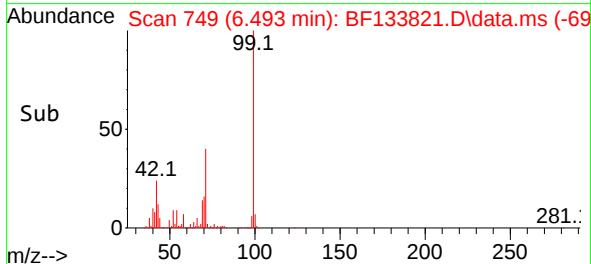
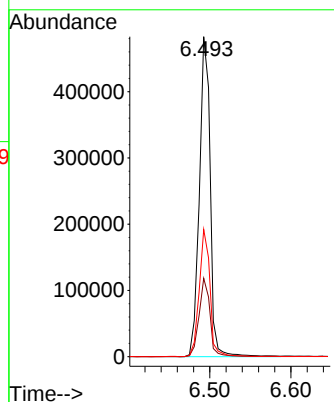
#7  
Phenol-d6  
Concen: 72.164 ng  
RT: 6.493 min Scan# 745  
Delta R.T. -0.006 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-15



Tgt Ion: 99 Resp: 449772

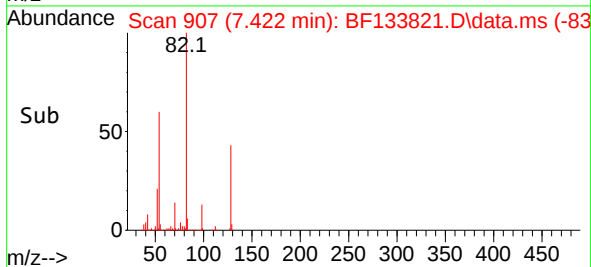
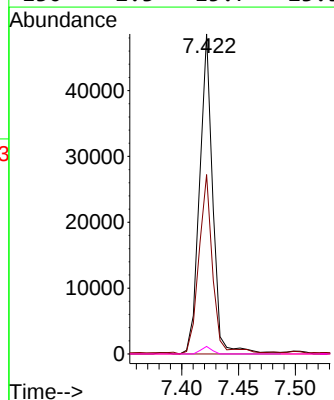
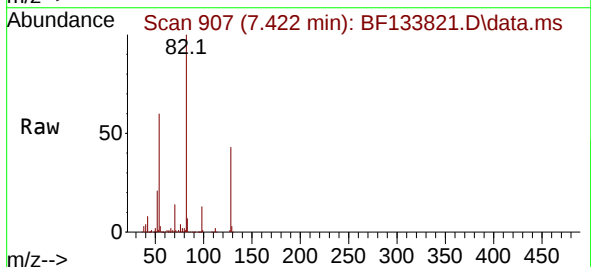
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 24.5  | 19.9  | 29.9  |
| 71  | 39.8  | 32.2  | 48.4  |



#19  
n-Nitroso-di-n-propylamine  
Concen: 9.944 ng  
RT: 7.422 min Scan# 907  
Delta R.T. 0.147 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

Tgt Ion: 70 Resp: 39431

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 56.0  | 55.8  | 83.8  |
| 101 | 0.0   | 8.1   | 12.1# |
| 130 | 2.3   | 15.7  | 23.5# |

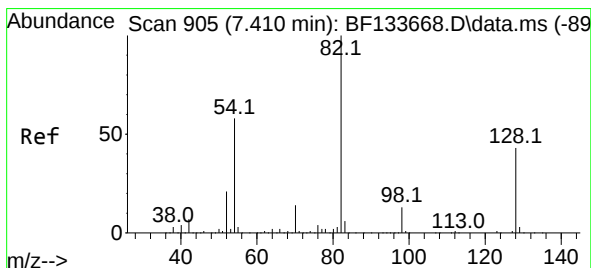
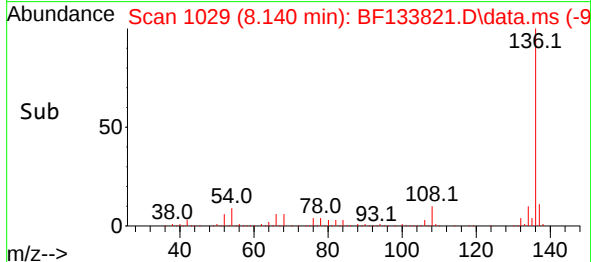
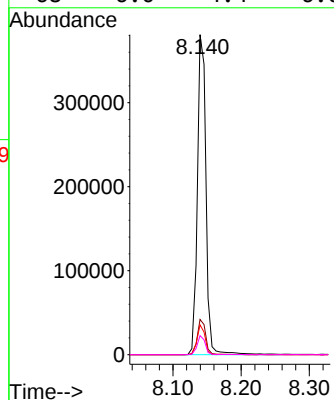
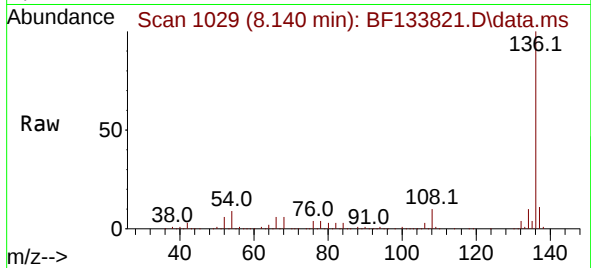




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.140 min Scan# 1026  
Delta R.T. -0.006 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

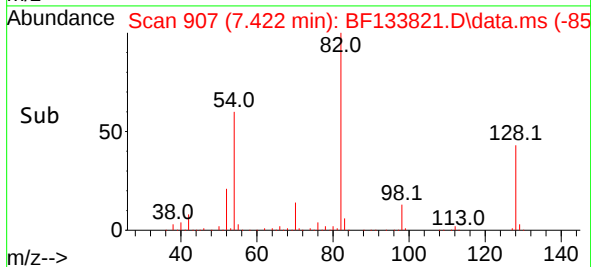
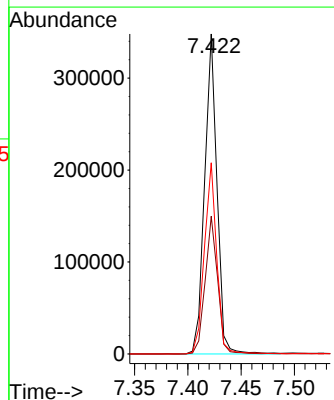
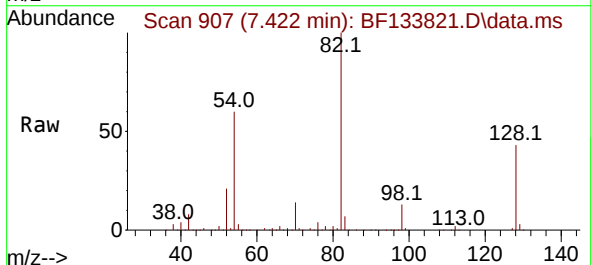
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-15

Tgt Ion:136 Resp: 333368  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.8 13.2  
54 9.3 7.4 11.0  
68 6.0 4.4 6.6



#23  
Nitrobenzene-d5  
Concen: 46.091 ng  
RT: 7.422 min Scan# 907  
Delta R.T. -0.006 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

Tgt Ion: 82 Resp: 282102  
Ion Ratio Lower Upper  
82 100  
128 43.1 34.2 51.2  
54 59.7 46.5 69.7

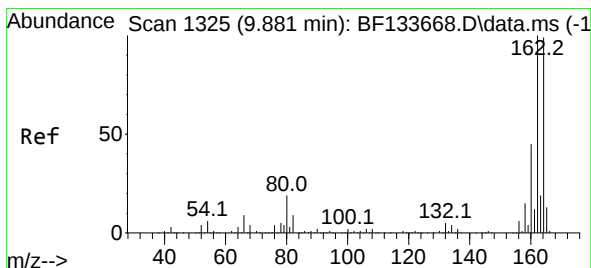
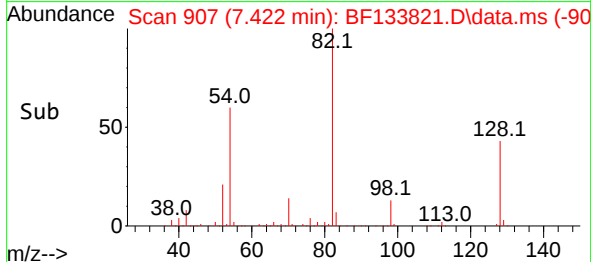
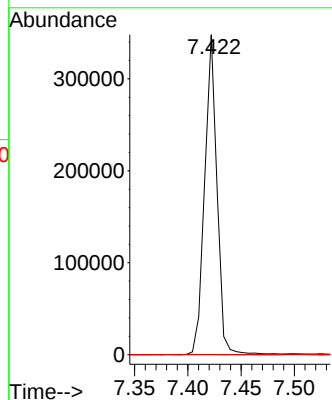
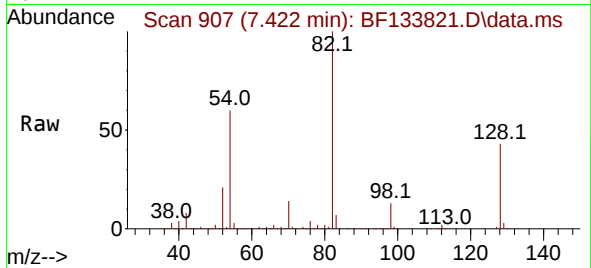




#25  
Isophorone  
Concen: 25.105 ng  
RT: 7.422 min Scan# 90  
Delta R.T. -0.259 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

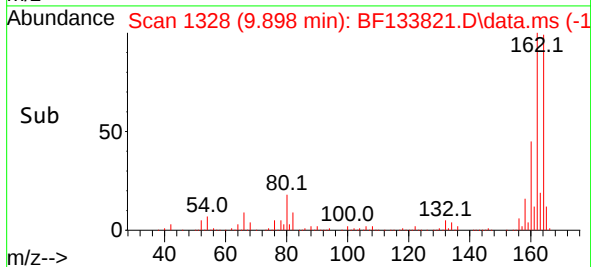
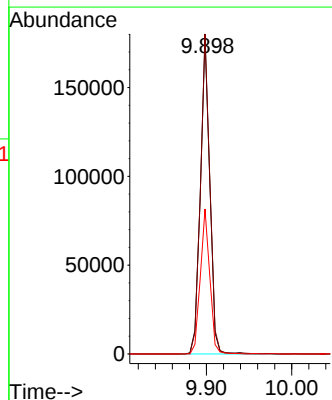
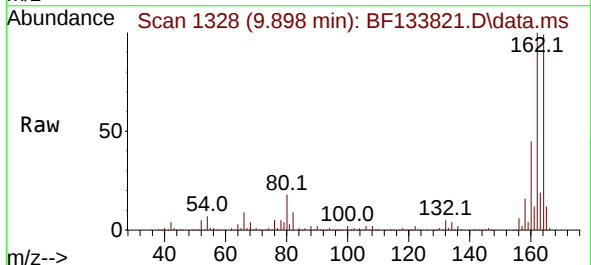
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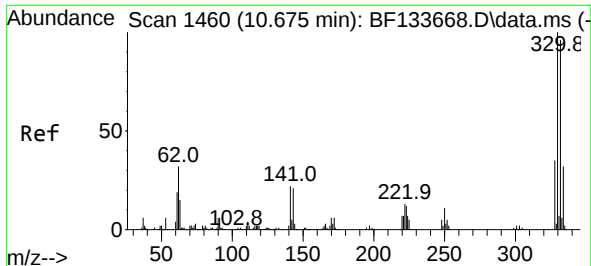
Tgt Ion: 82 Resp: 282102  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.0 9.0#  
138 0.0 14.2 21.2#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.898 min Scan# 1328  
Delta R.T. -0.006 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

Tgt Ion: 164 Resp: 137561  
Ion Ratio Lower Upper  
164 100  
162 101.0 80.8 121.2  
160 45.8 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 60.007 ng

RT: 10.692 min Scan# 1463

Delta R.T. 0.000 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

Instrument :

BNA\_F

ClientSampleId :

COMPOSIT-SB-15

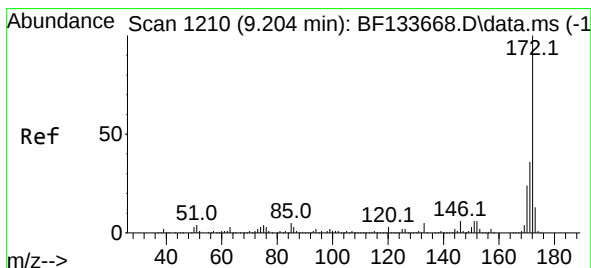
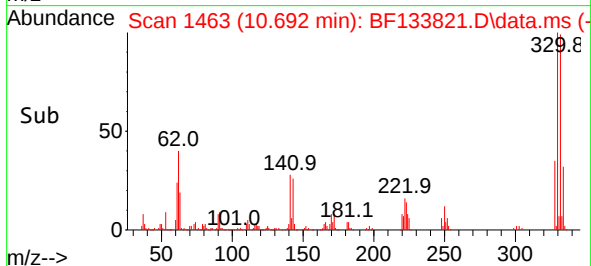
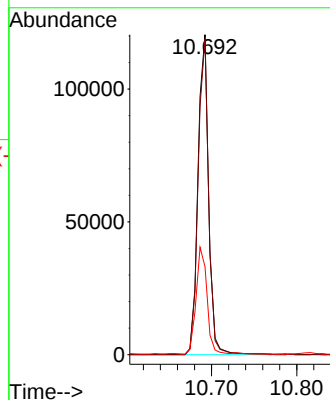
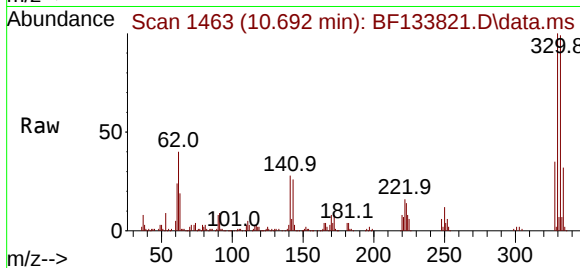
Tgt Ion:330 Resp: 104488

Ion Ratio Lower Upper

330 100

332 97.6 77.2 115.8

141 33.8 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 56.842 ng

RT: 9.216 min Scan# 1212

Delta R.T. -0.006 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

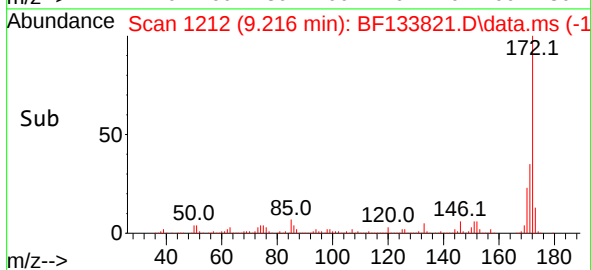
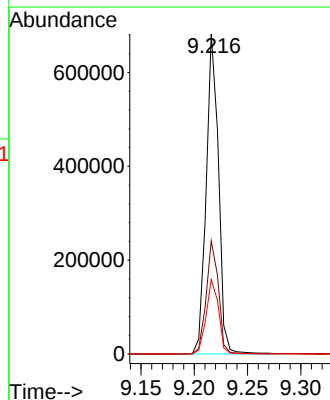
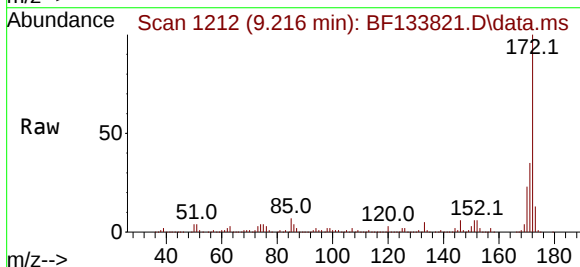
Tgt Ion:172 Resp: 550068

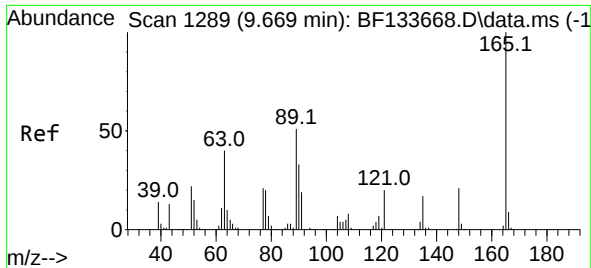
Ion Ratio Lower Upper

172 100

171 35.3 28.6 43.0

170 23.3 19.1 28.7

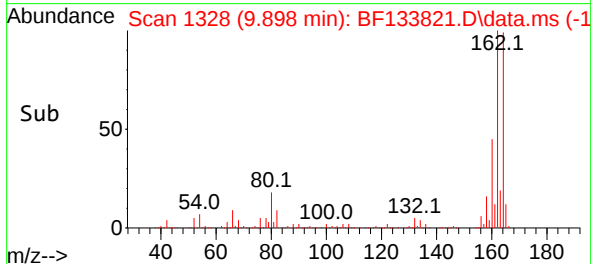
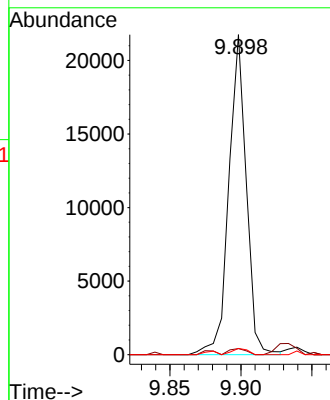
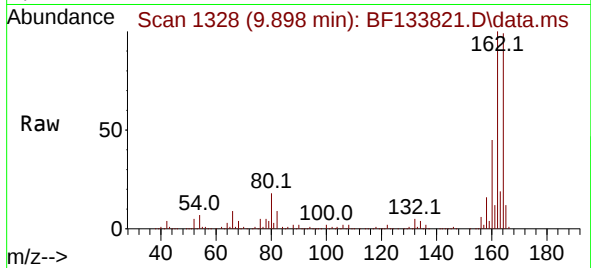




#51  
2,6-Dinitrotoluene  
Concen: 8.746 ng  
RT: 9.898 min Scan# 11  
Delta R.T. 0.212 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

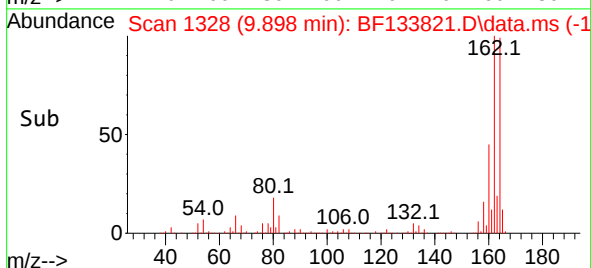
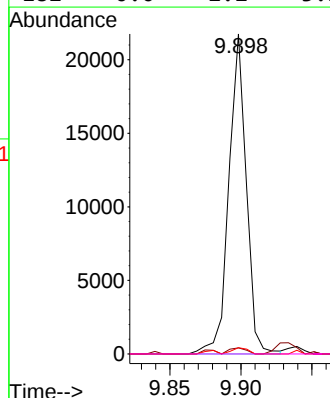
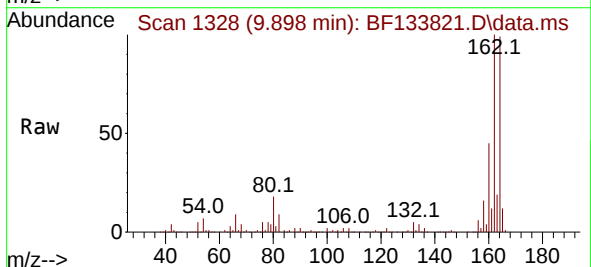
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COMPOSIT-SB-15

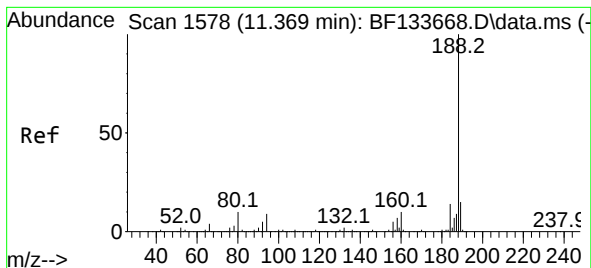
Tgt Ion:165 Resp: 18537  
Ion Ratio Lower Upper  
165 100  
63 1.9 42.1 63.1#  
89 1.9 40.9 61.3#



#57  
2,4-Dinitrotoluene  
Concen: 6.877 ng  
RT: 9.898 min Scan# 1328  
Delta R.T. -0.194 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

Tgt Ion:165 Resp: 18537  
Ion Ratio Lower Upper  
165 100  
63 1.9 43.0 64.6#  
89 1.9 62.6 93.8#  
182 0.0 2.2 3.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

Instrument :

BNA\_F

ClientSampleId :

COMPOSIT-SB-15

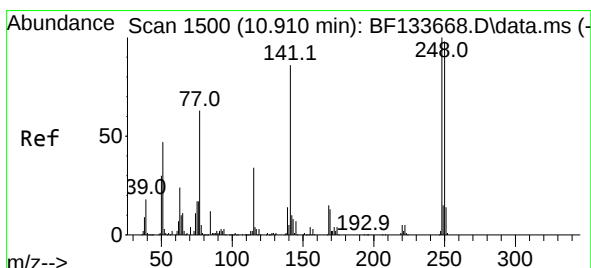
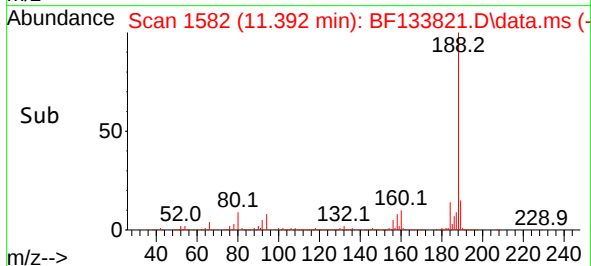
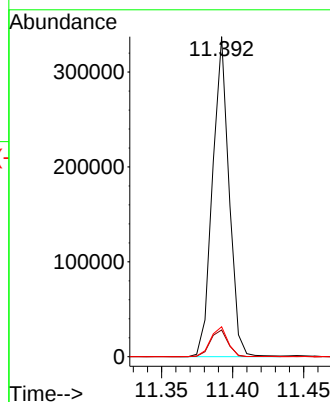
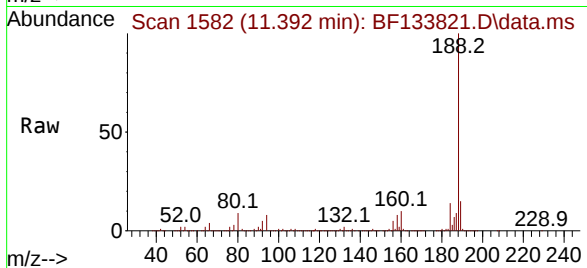
Tgt Ion:188 Resp: 273296

Ion Ratio Lower Upper

188 100

94 8.4 6.8 10.2

80 9.3 7.8 11.6



#67

4-Bromophenyl-phenylether

Concen: 2.221 ng

RT: 10.686 min Scan# 1462

Delta R.T. -0.253 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

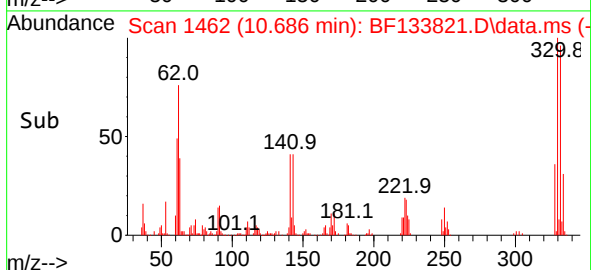
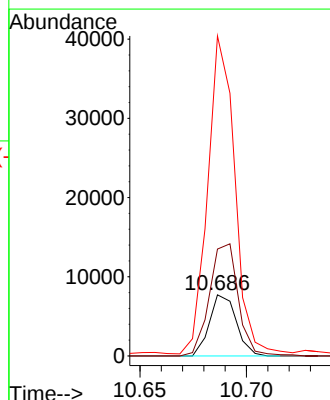
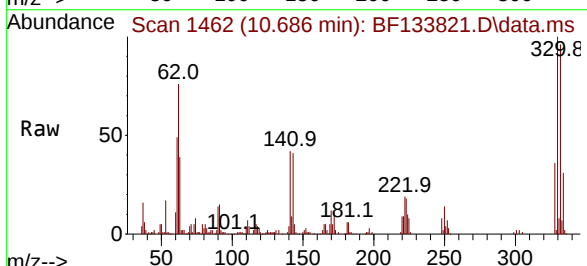
Tgt Ion:248 Resp: 6775

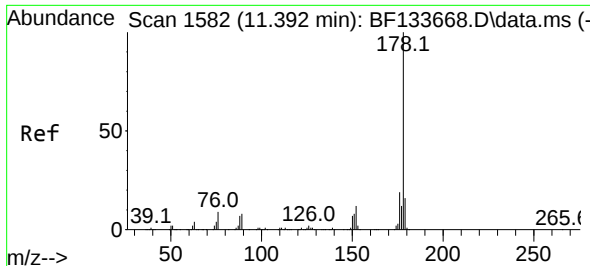
Ion Ratio Lower Upper

248 100

250 174.8 78.3 117.5#

141 523.0 69.0 103.6#

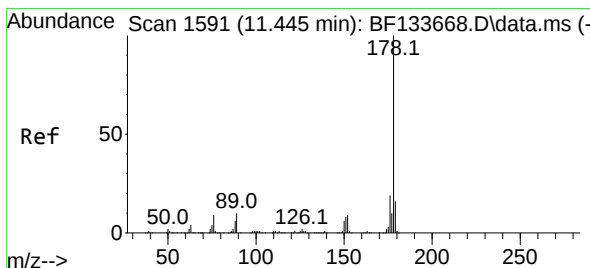
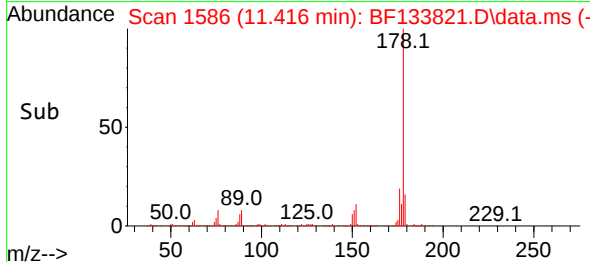
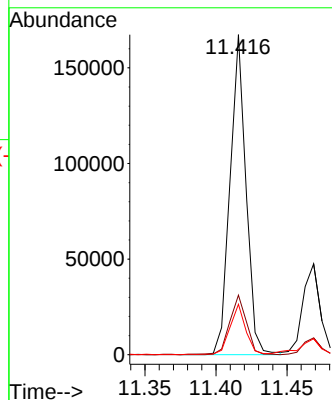
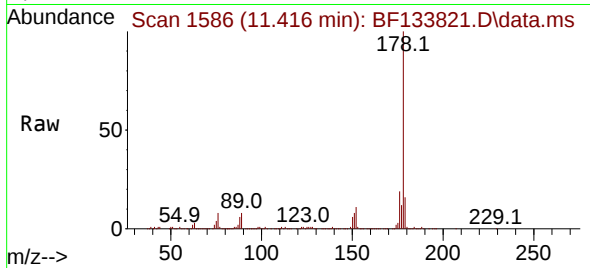




#71  
Phenanthrene  
Concen: 9.431 ng  
RT: 11.416 min Scan# 1586  
Delta R.T. -0.006 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

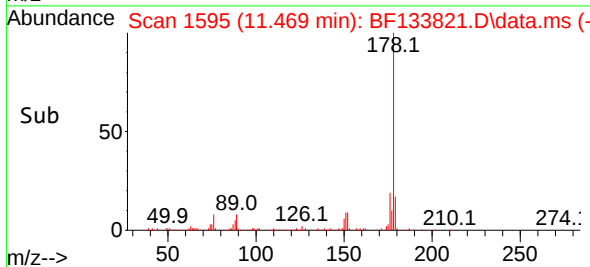
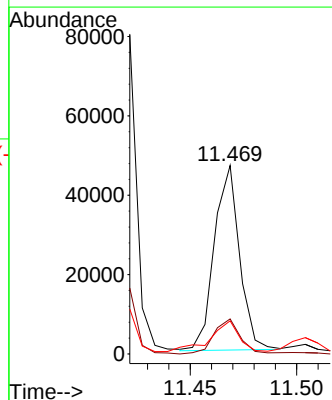
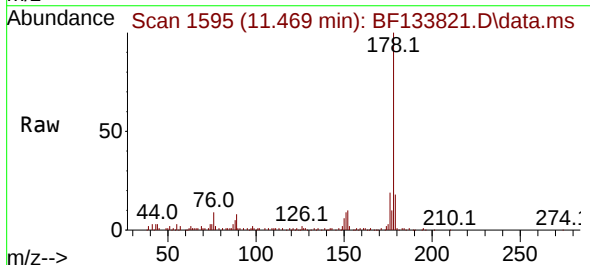
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-15

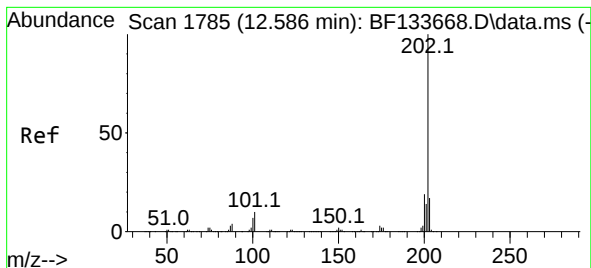
Tgt Ion:178 Resp: 130763  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.6 23.4  
179 15.8 12.4 18.6



#72  
Anthracene  
Concen: 2.652 ng  
RT: 11.469 min Scan# 1595  
Delta R.T. 0.000 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

Tgt Ion:178 Resp: 38335  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.1 22.7  
179 17.6 12.6 18.8





#75

Fluoranthene

Concen: 18.611 ng

RT: 12.616 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

Instrument :

BNA\_F

ClientSampleId :

COMPOSIT-SB-15

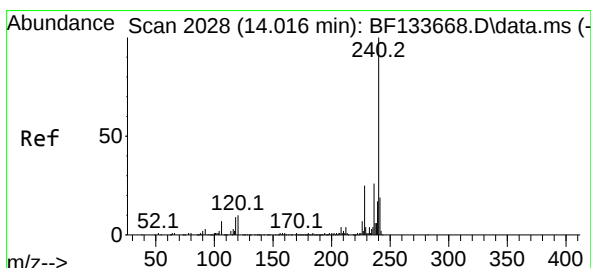
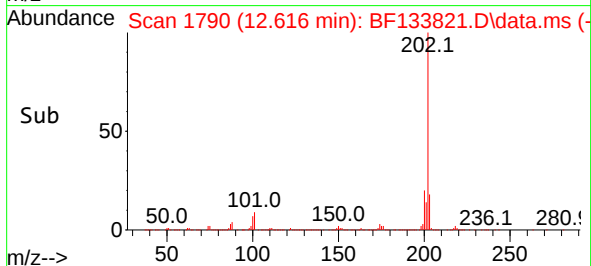
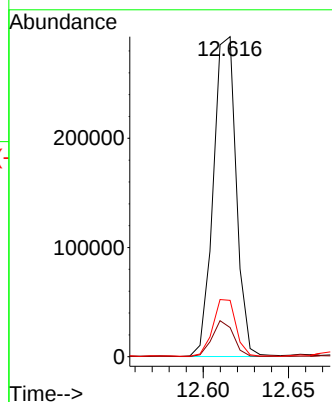
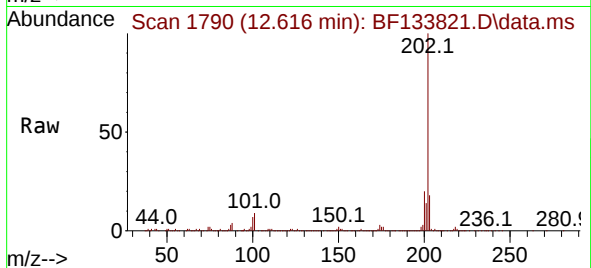
Tgt Ion:202 Resp: 274041

Ion Ratio Lower Upper

202 100

101 9.1 0.0 29.6

203 17.6 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2034

Delta R.T. 0.000 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

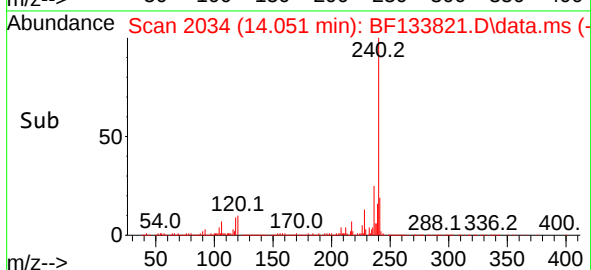
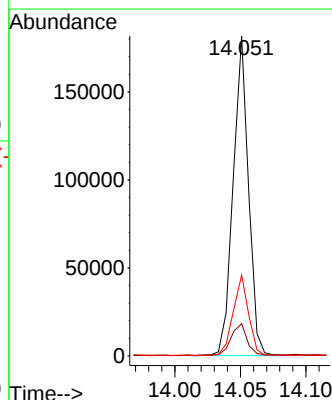
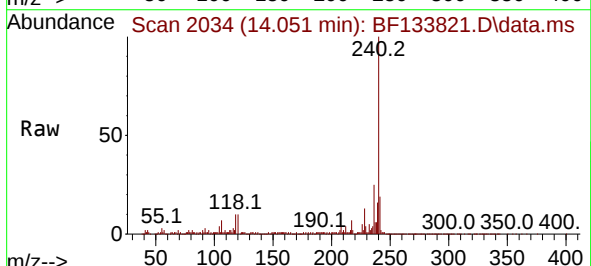
Tgt Ion:240 Resp: 147670

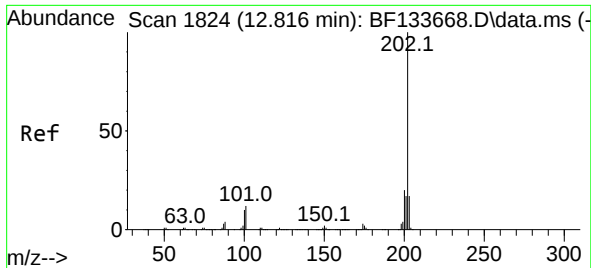
Ion Ratio Lower Upper

240 100

120 10.1 8.1 12.1

236 25.3 20.5 30.7

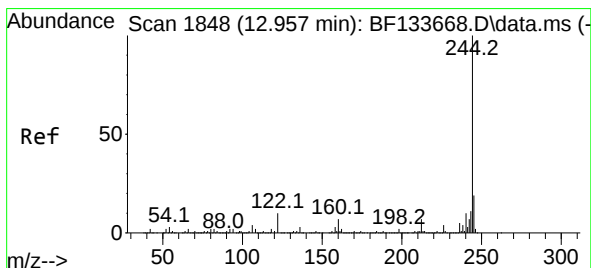
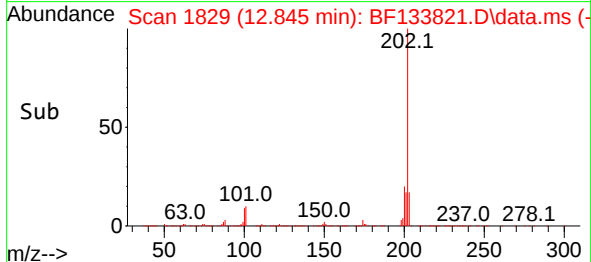
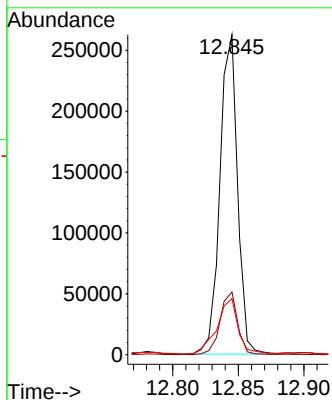
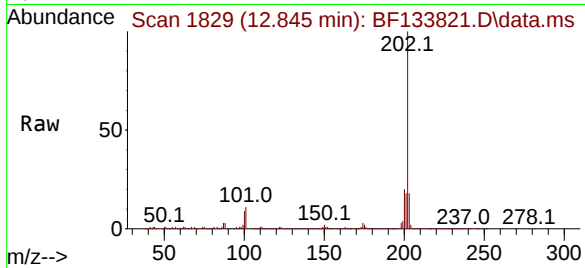




#78  
Pyrene  
Concen: 17.803 ng  
RT: 12.845 min Scan# 1824  
Delta R.T. 0.000 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

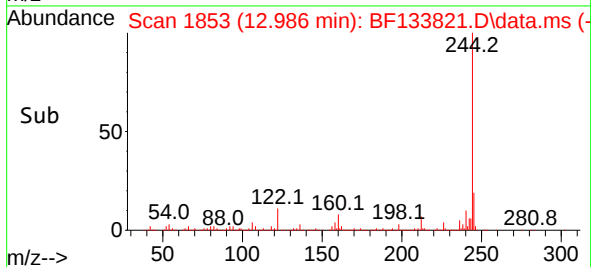
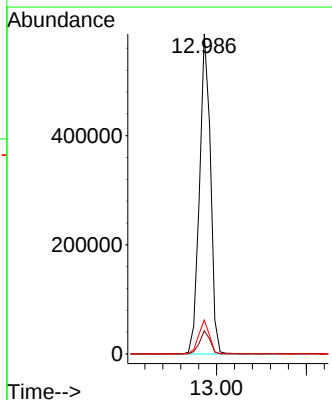
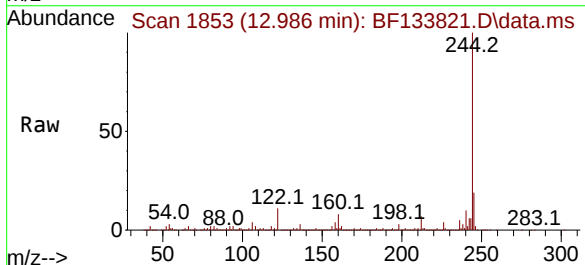
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-15

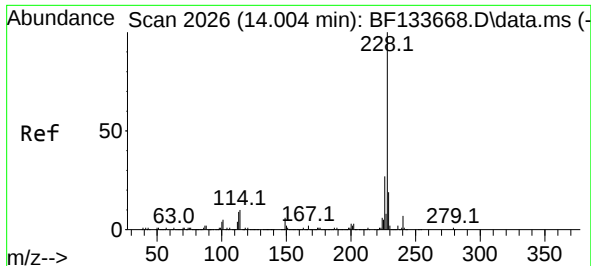
Tgt Ion:202 Resp: 244902  
Ion Ratio Lower Upper  
202 100  
200 19.6 16.2 24.2  
203 17.5 13.9 20.9



#79  
Terphenyl-d14  
Concen: 52.094 ng  
RT: 12.986 min Scan# 1853  
Delta R.T. -0.006 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

Tgt Ion:244 Resp: 497160  
Ion Ratio Lower Upper  
244 100  
212 7.3 5.4 8.2  
122 10.6 8.1 12.1

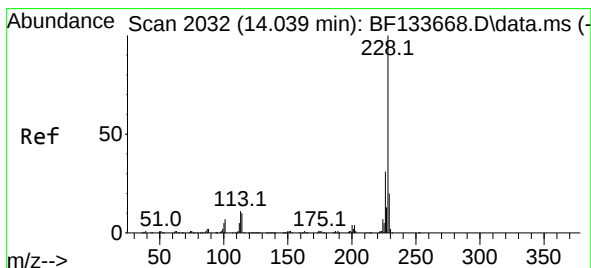
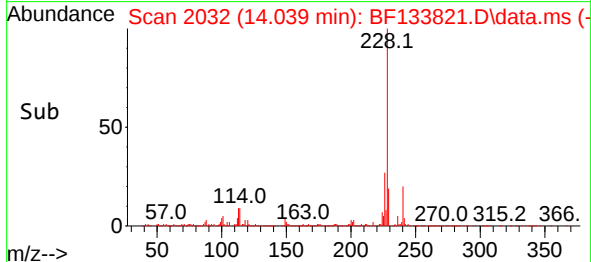
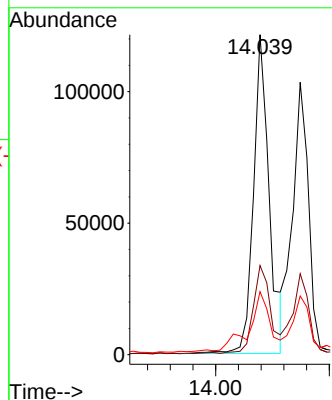
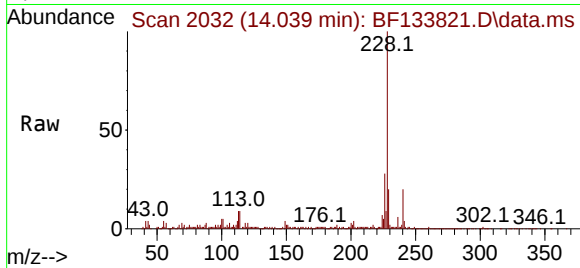




#81  
Benzo(a)anthracene  
Concen: 11.386 ng  
RT: 14.039 min Scan# 2032  
Delta R.T. -0.006 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

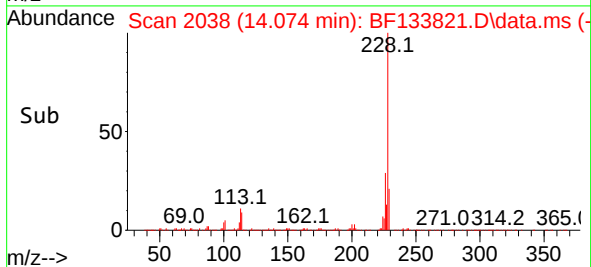
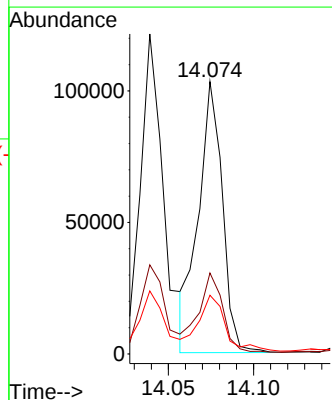
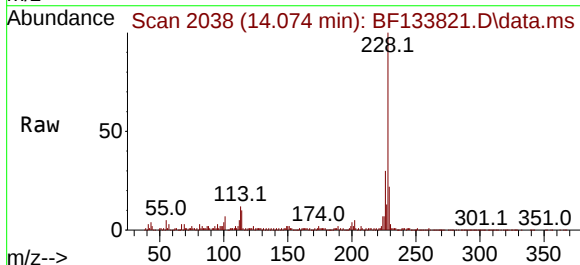
Instrument :  
BNA\_F  
ClientSampleId :  
COMPOSIT-SB-15

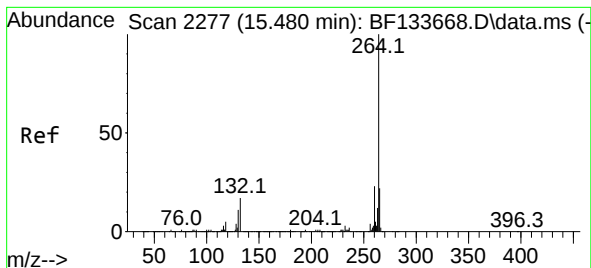
Tgt Ion:228 Resp: 116302  
Ion Ratio Lower Upper  
228 100  
226 27.8 21.7 32.5  
229 19.7 15.4 23.2



#83  
Chrysene  
Concen: 10.429 ng  
RT: 14.074 min Scan# 2038  
Delta R.T. -0.006 min  
Lab File: BF133821.D  
Acq: 16 Jun 2023 23:03

Tgt Ion:228 Resp: 100753  
Ion Ratio Lower Upper  
228 100  
226 29.7 25.0 37.6  
229 21.6 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.563 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

Instrument :

BNA\_F

ClientSampleId :

COMPOSIT-SB-15

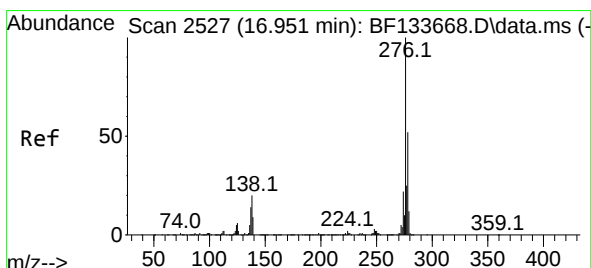
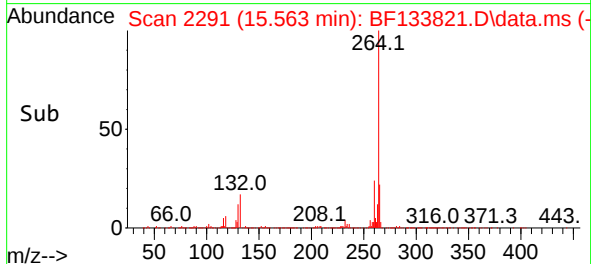
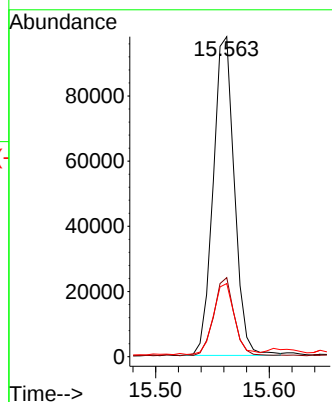
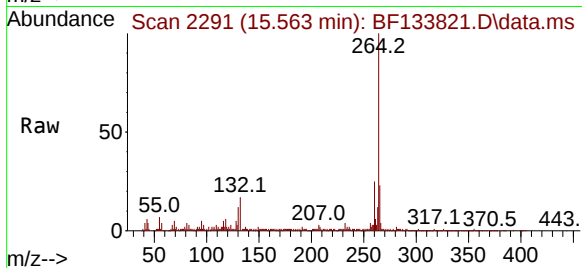
Tgt Ion:264 Resp: 126985

Ion Ratio Lower Upper

264 100

260 24.7 18.2 27.2

265 22.9 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.785 ng

RT: 17.104 min Scan# 2553

Delta R.T. -0.012 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

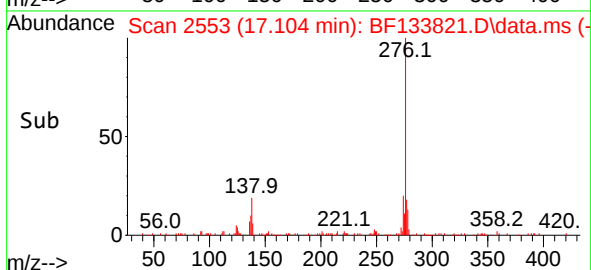
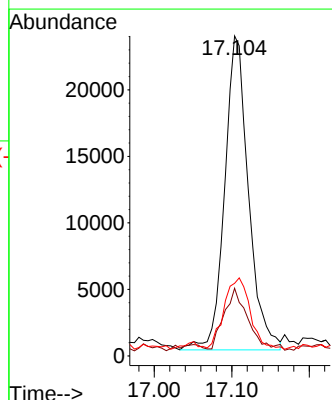
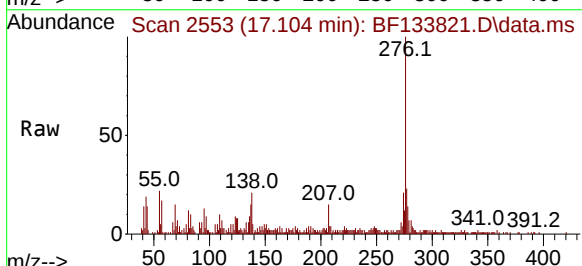
Tgt Ion:276 Resp: 50540

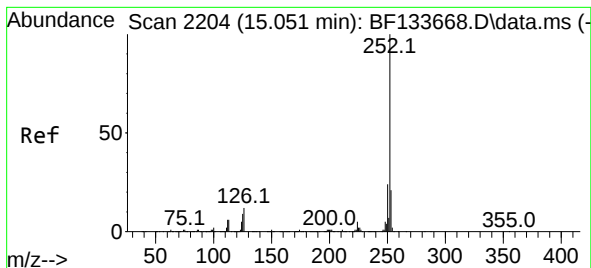
Ion Ratio Lower Upper

276 100

138 19.9 17.9 26.9

277 24.8 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 19.439 ng

RT: 15.116 min Scan# 2215

Delta R.T. 0.000 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

Instrument :

BNA\_F

ClientSampleId :

COMPOSIT-SB-15

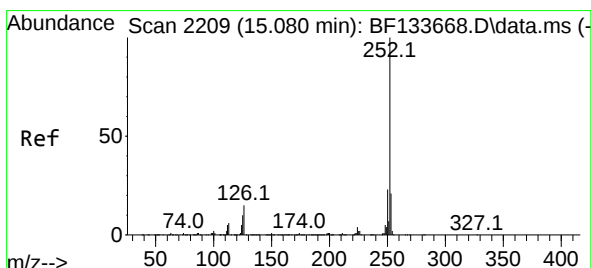
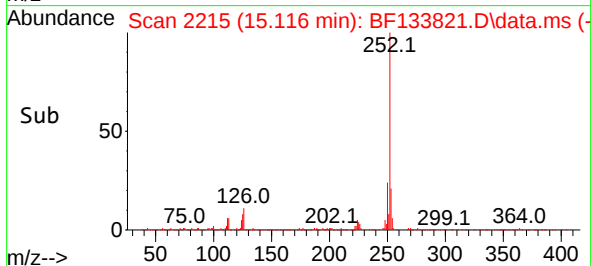
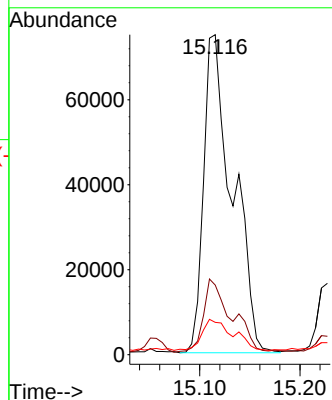
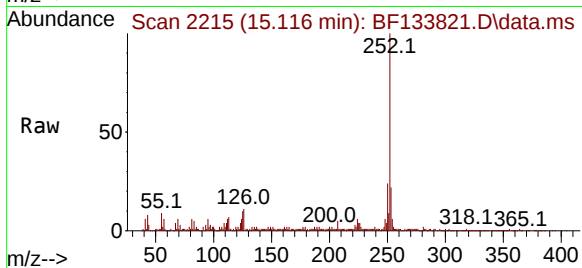
Tgt Ion:252 Resp: 149947

Ion Ratio Lower Upper

252 100

253 21.8 17.0 25.6

125 10.1 7.3 10.9



#89

Benzo(k)fluoranthene

Concen: 19.955 ng

RT: 15.116 min Scan# 2215

Delta R.T. -0.029 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

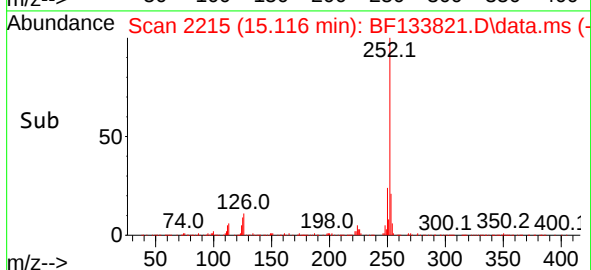
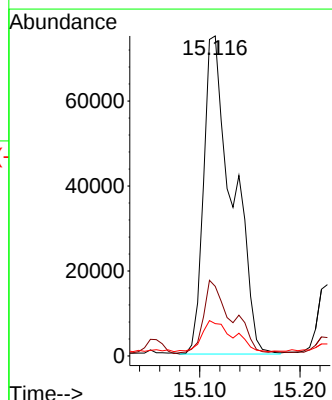
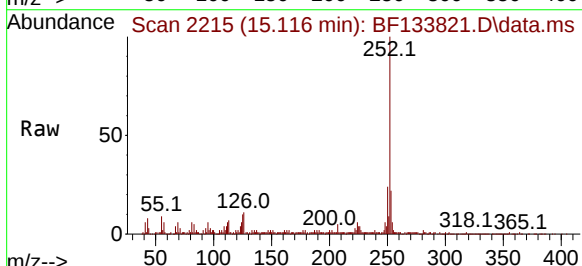
Tgt Ion:252 Resp: 149947

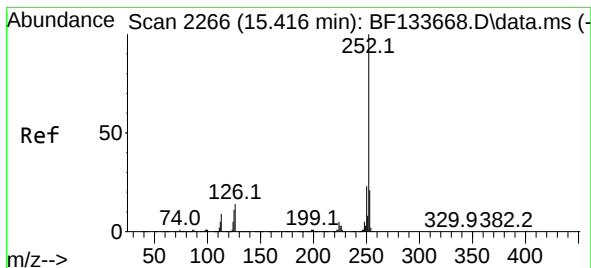
Ion Ratio Lower Upper

252 100

253 21.8 17.0 25.4

125 10.1 7.8 11.6





#90

Benzo(a)pyrene

Concen: 10.116 ng

RT: 15.492 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

Instrument :

BNA\_F

ClientSampleId :

COMPOSIT-SB-15

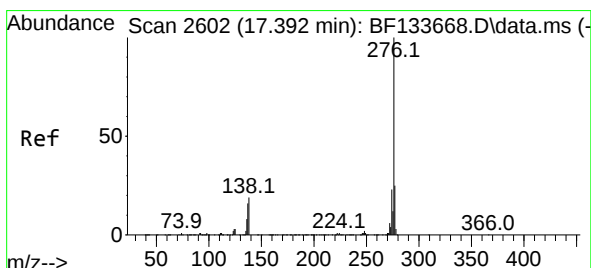
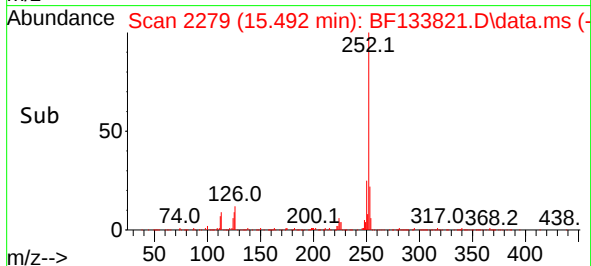
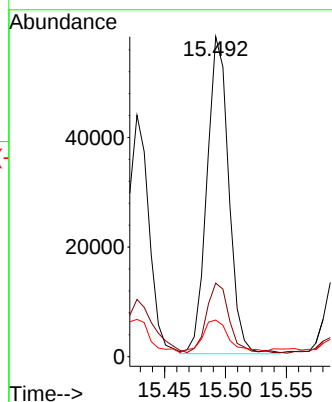
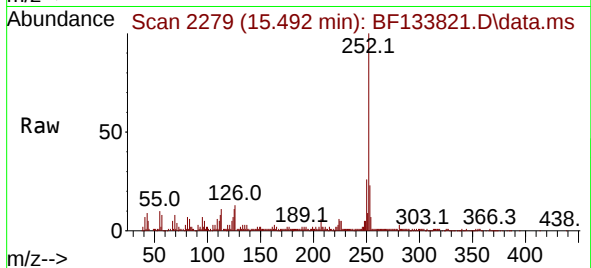
Tgt Ion:252 Resp: 72418

Ion Ratio Lower Upper

252 100

253 23.0 17.1 25.7

125 11.5 8.6 13.0



#92

Benzo(g,h,i)perylene

Concen: 6.309 ng

RT: 17.580 min Scan# 2634

Delta R.T. -0.012 min

Lab File: BF133821.D

Acq: 16 Jun 2023 23:03

Tgt Ion:276 Resp: 45239

Ion Ratio Lower Upper

276 100

277 26.5 19.8 29.8

138 21.1 15.0 22.4

