

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF062723\  
 Data File : BF134020.D  
 Acq On : 28 Jun 2023 08:31  
 Operator : CG\JU  
 Sample : 03355-12 2X  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP

Quant Time: Jun 28 08:51:56 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF062623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 26 23:12:04 2023  
 Response via : Initial Calibration

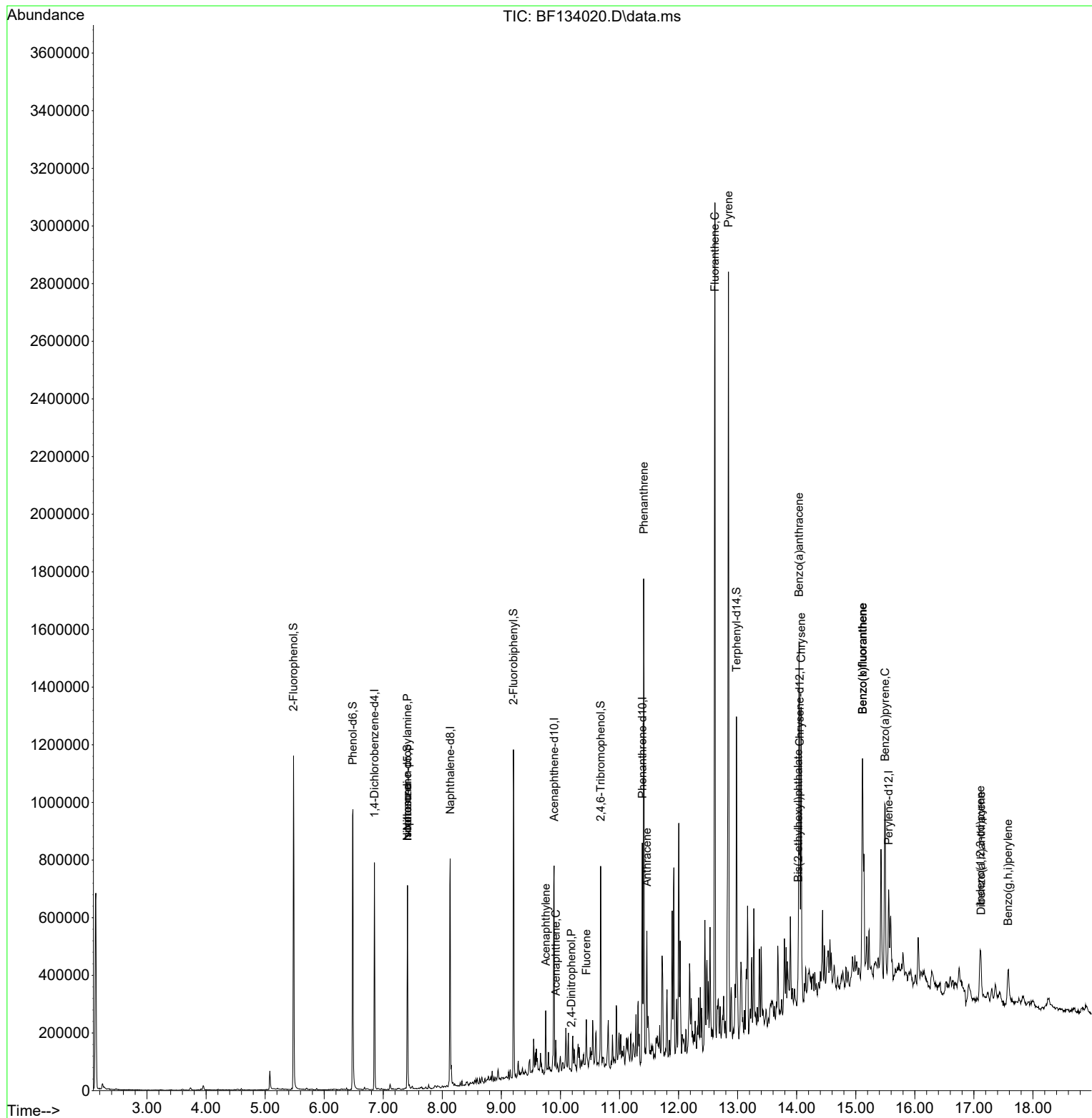
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.851  | 152  | 100397   | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.133  | 136  | 340771   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.892  | 164  | 139640   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.386 | 188  | 262283   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 146757   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 15.556 | 264  | 143039   | 20.000    | ng    | # 0.01   |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.481  | 112  | 277034   | 46.158    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.486  | 99   | 297574   | 40.316    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.410  | 82   | 187545   | 29.667    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.680 | 330  | 67004    | 38.270    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.204  | 172  | 331736   | 34.539    | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.980 | 244  | 341960   | 37.501    | ng    | 0.00     |
| Target Compounds              |        |      |          |           |       |          |
|                               |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.410  | 77   | 522      | Below Cal | #     | 86       |
| 19) n-Nitroso-di-n-propyla... | 7.410  | 70   | 25187    | 5.381 ng  | #     | 76       |
| 25) Isophorone                | 7.410  | 82   | 187543   | 16.323 ng | #     | 64       |
| 49) Acenaphthylene            | 9.751  | 152  | 63282    | 4.520 ng  |       | 99       |
| 52) Acenaphthene              | 9.922  | 154  | 17561    | 2.162 ng  |       | 92       |
| 54) 2,4-Dinitrophenol         | 10.186 | 184  | 77       | 3.922 ng  | #     | 40       |
| 58) Fluorene                  | 10.439 | 166  | 38137    | 3.861 ng  |       | 98       |
| 71) Phenanthrene              | 11.410 | 178  | 603708   | 45.722 ng |       | 99       |
| 72) Anthracene                | 11.463 | 178  | 159487   | 11.613 ng |       | 99       |
| 75) Fluoranthene              | 12.615 | 202  | 1185462  | 83.048 ng |       | 99       |
| 78) Pyrene                    | 12.845 | 202  | 1143722  | 83.742 ng |       | 99       |
| 81) Benzo(a)anthracene        | 14.039 | 228  | 474500   | 46.621 ng |       | 97       |
| 83) Chrysene                  | 14.074 | 228  | 376058   | 38.148 ng |       | 95       |
| 84) Bis(2-ethylhexyl)phtha... | 14.027 | 149  | 12426    | 2.111 ng  | #     | 84       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.109 | 276  | 144314   | 14.540 ng |       | 94       |
| 88) Benzo(b)fluoranthene      | 15.115 | 252  | 603770   | 71.785 ng |       | 98       |
| 89) Benzo(k)fluoranthene      | 15.115 | 252  | 603770   | 70.505 ng |       | 98       |
| 90) Benzo(a)pyrene            | 15.498 | 252  | 320237   | 39.374 ng |       | 97       |
| 91) Dibenzo(a,h)anthracene    | 17.121 | 278  | 37711    | 4.652 ng  | #     | 75       |
| 92) Benzo(g,h,i)perylene      | 17.580 | 276  | 125837   | 15.052 ng |       | 98       |
| -----                         |        |      |          |           |       |          |

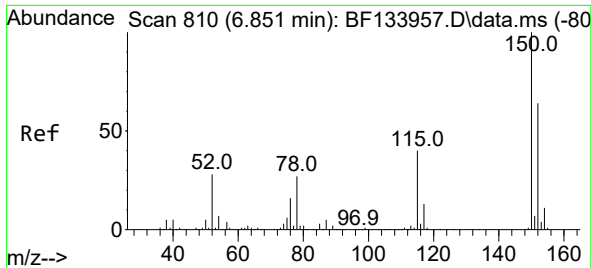
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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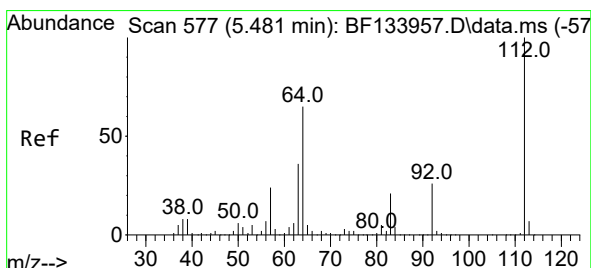
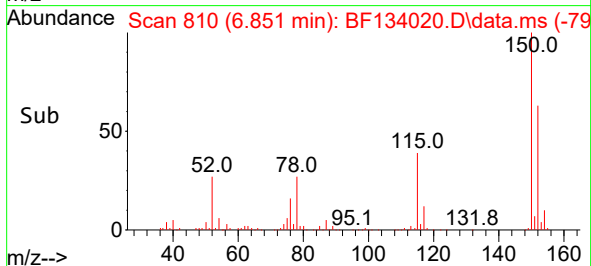
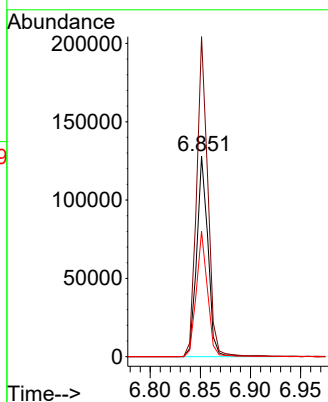
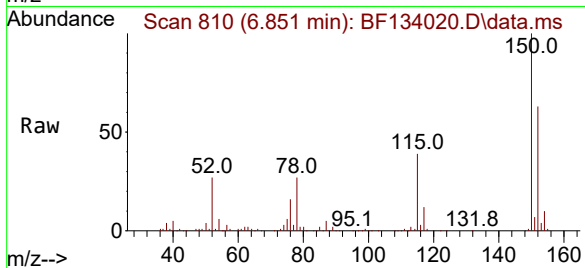




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.851 min Scan# 810  
Delta R.T. 0.000 min  
Lab File: BF134020.D  
Acq: 28 Jun 2023 08:31

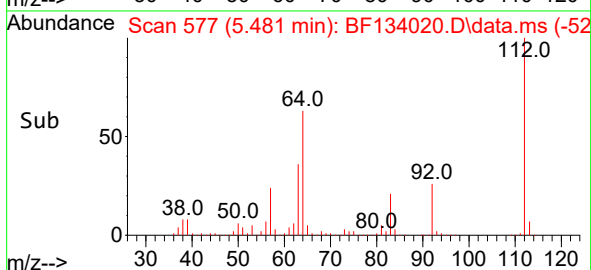
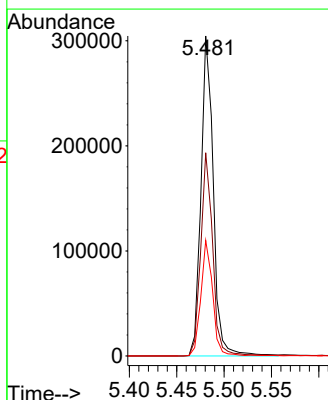
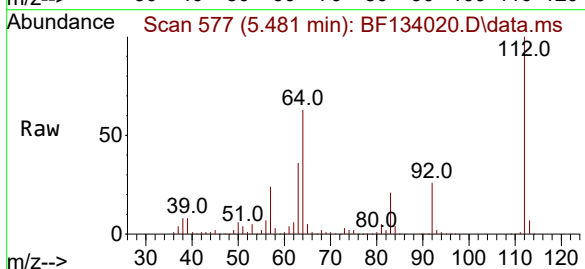
Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP

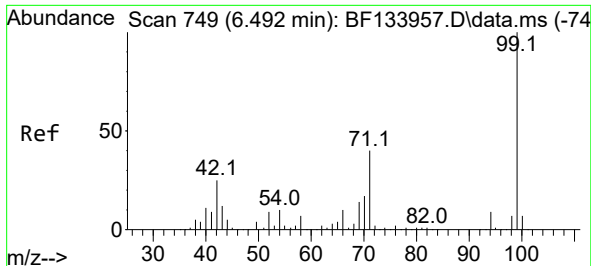
Tgt Ion:152 Resp: 100397  
Ion Ratio Lower Upper  
152 100  
150 159.6 124.5 186.7  
115 62.6 50.2 75.2



#5  
2-Fluorophenol  
Concen: 46.158 ng  
RT: 5.481 min Scan# 577  
Delta R.T. -0.000 min  
Lab File: BF134020.D  
Acq: 28 Jun 2023 08:31

Tgt Ion:112 Resp: 277034  
Ion Ratio Lower Upper  
112 100  
64 63.5 52.1 78.1  
63 36.1 28.6 42.8

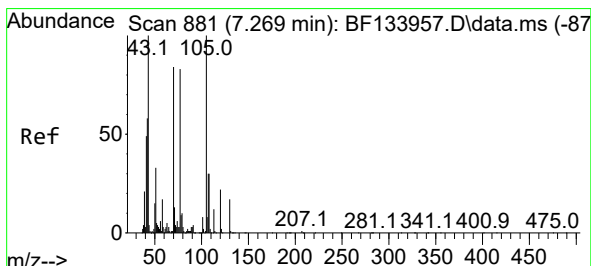
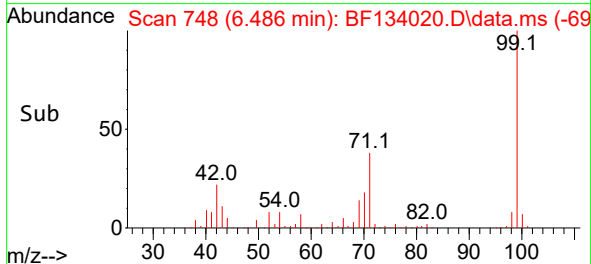
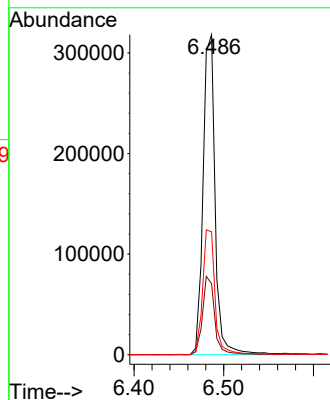
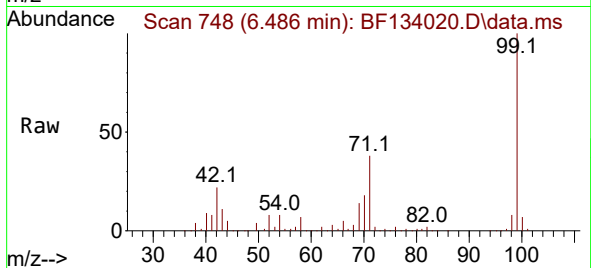




#7  
Phenol-d6  
Concen: 40.316 ng  
RT: 6.486 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: BF134020.D  
Acq: 28 Jun 2023 08:31

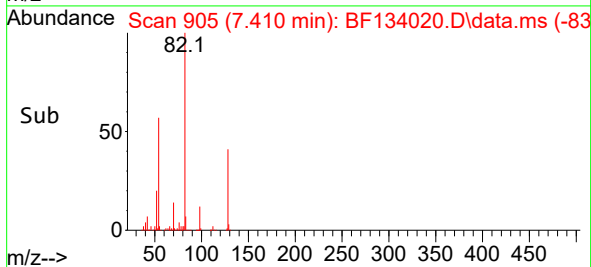
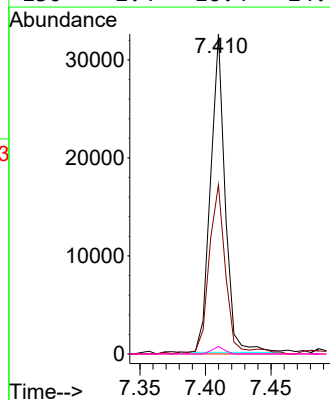
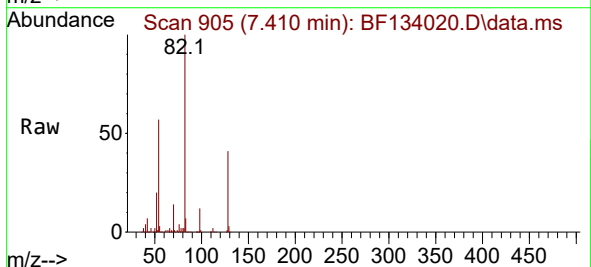
Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-COMP

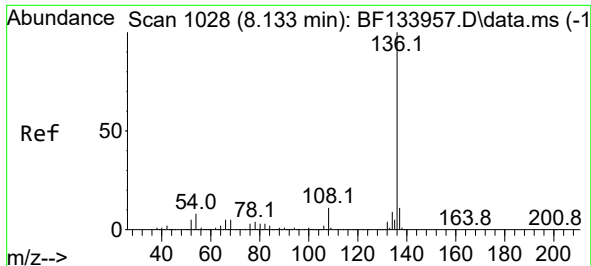
Tgt Ion: 99 Resp: 297574  
Ion Ratio Lower Upper  
99 100  
42 22.3 19.8 29.6  
71 38.4 31.9 47.9



#19  
n-Nitroso-di-n-propylamine  
Concen: 5.381 ng  
RT: 7.410 min Scan# 905  
Delta R.T. 0.141 min  
Lab File: BF134020.D  
Acq: 28 Jun 2023 08:31

Tgt Ion: 70 Resp: 25187  
Ion Ratio Lower Upper  
70 100  
42 52.9 54.7 82.1#  
101 0.0 7.7 11.5#  
130 2.4 16.4 24.6#

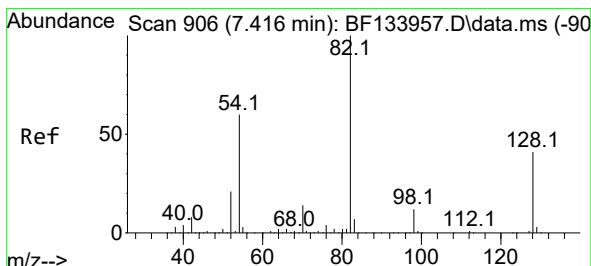
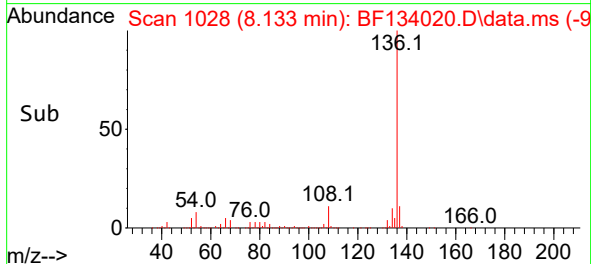
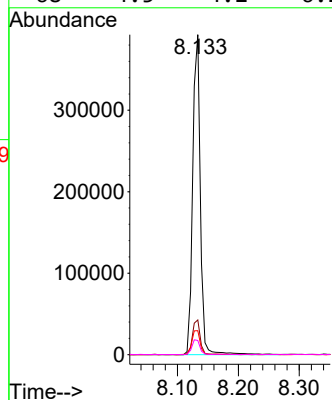
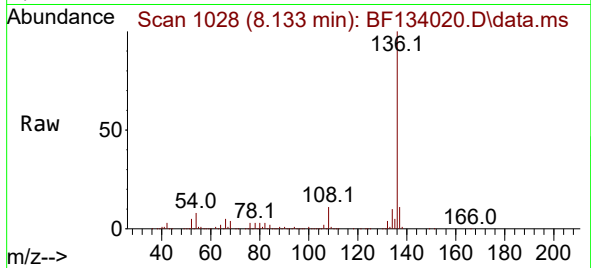




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.133 min Scan# 1028  
Delta R.T. -0.000 min  
Lab File: BF134020.D  
Acq: 28 Jun 2023 08:31

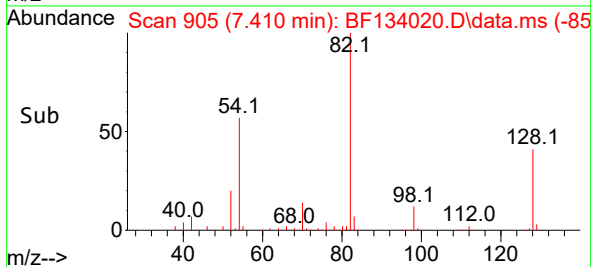
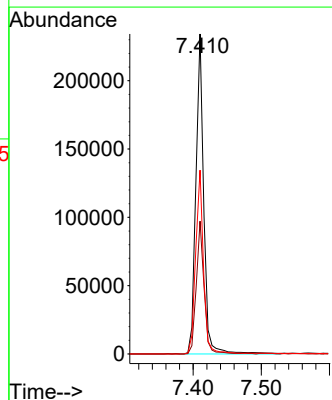
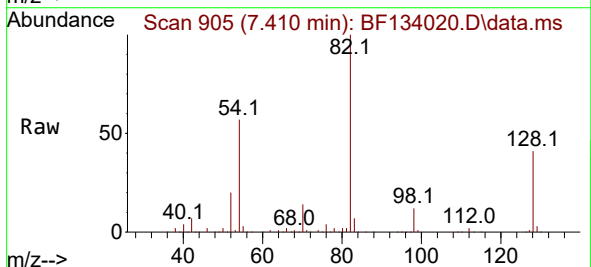
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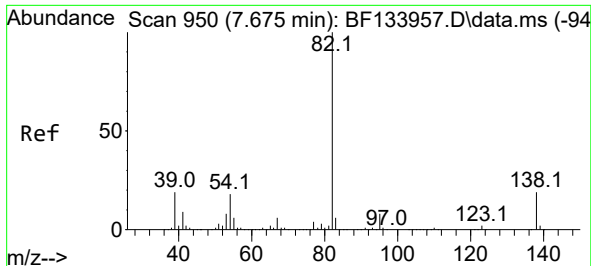
Tgt Ion:136 Resp: 340771  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 12.8  
54 7.5 6.5 9.7  
68 4.5 4.2 6.2



#23  
Nitrobenzene-d5  
Concen: 29.667 ng  
RT: 7.410 min Scan# 905  
Delta R.T. -0.006 min  
Lab File: BF134020.D  
Acq: 28 Jun 2023 08:31

Tgt Ion: 82 Resp: 187545  
Ion Ratio Lower Upper  
82 100  
128 41.5 32.5 48.7  
54 57.5 48.2 72.2

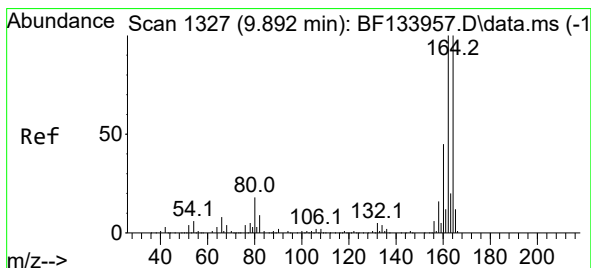
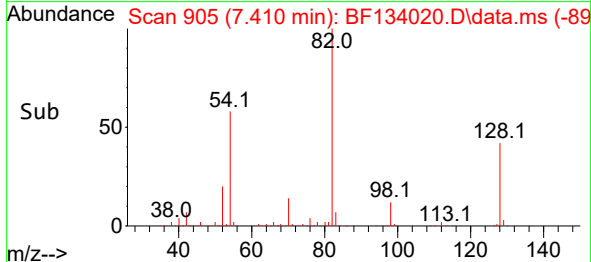
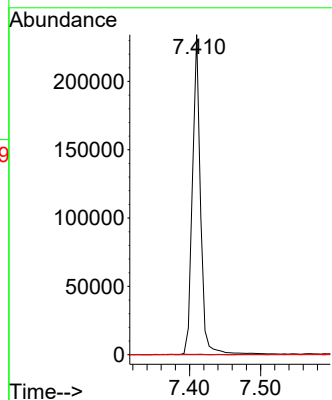
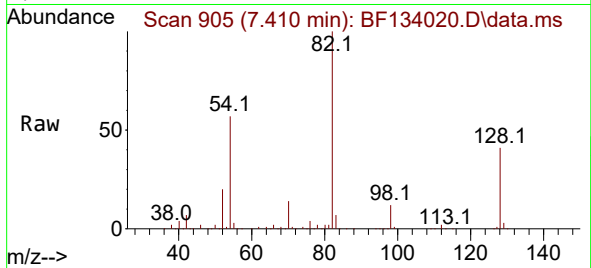




#25  
Isophorone  
Concen: 16.323 ng  
RT: 7.410 min Scan# 90  
Delta R.T. -0.265 min  
Lab File: BF134020.D  
Acq: 28 Jun 2023 08:31

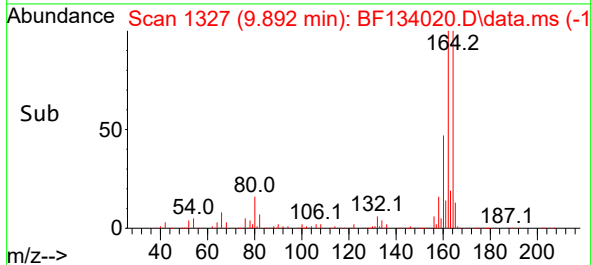
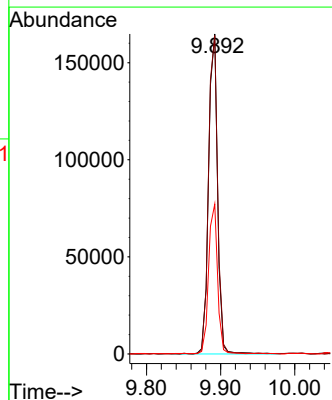
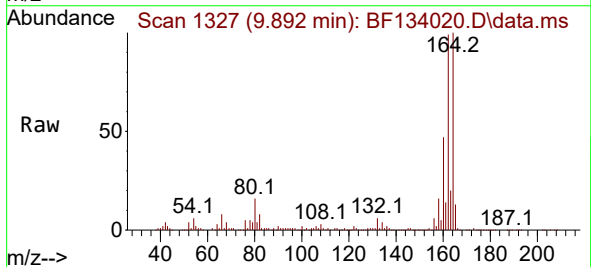
Instrument :  
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SB-06-COMP

Tgt Ion: 82 Resp: 187543  
Ion Ratio Lower Upper  
82 100  
95 0.1 6.1 9.1#  
138 0.0 15.2 22.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.892 min Scan# 1327  
Delta R.T. -0.000 min  
Lab File: BF134020.D  
Acq: 28 Jun 2023 08:31

Tgt Ion:164 Resp: 139640  
Ion Ratio Lower Upper  
164 100  
162 99.5 80.0 120.0  
160 46.8 35.9 53.9





#42

2,4,6-Tribromophenol

Concen: 38.270 ng

RT: 10.680 min Scan# 1461

Delta R.T. -0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA\_F

ClientSampleId :

SB-06-COMP

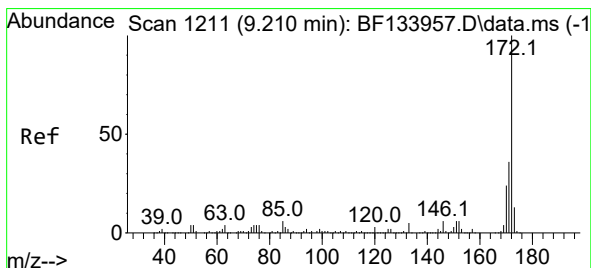
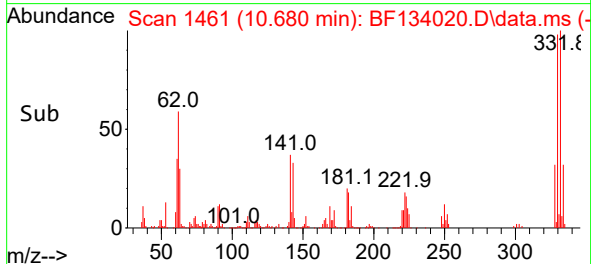
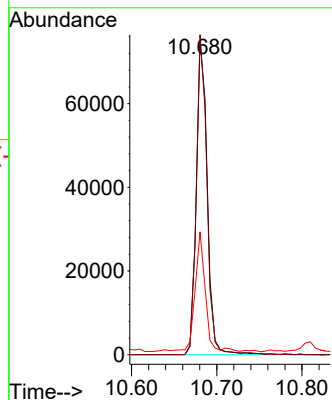
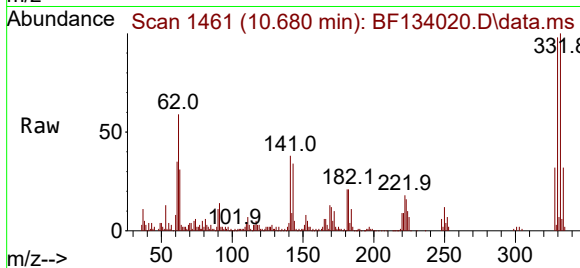
Tgt Ion:330 Resp: 67004

Ion Ratio Lower Upper

330 100

332 99.0 77.0 115.6

141 33.2 26.3 39.5



#45

2-Fluorobiphenyl

Concen: 34.539 ng

RT: 9.204 min Scan# 1210

Delta R.T. -0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

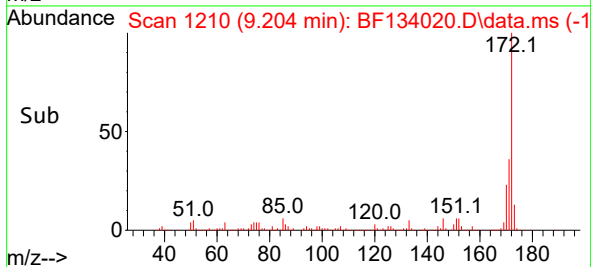
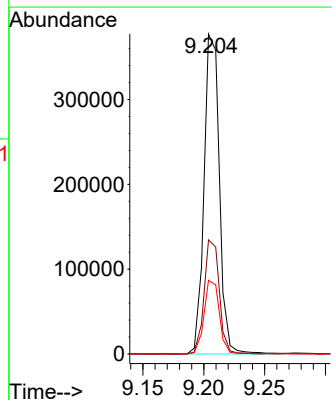
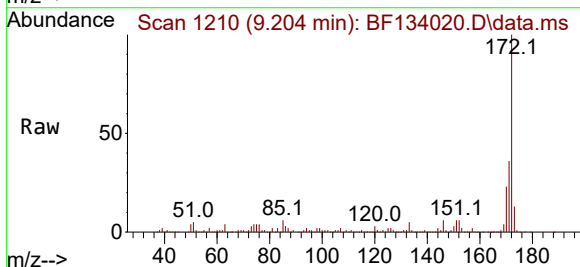
Tgt Ion:172 Resp: 331736

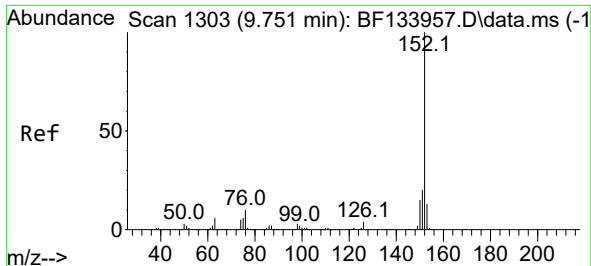
Ion Ratio Lower Upper

172 100

171 35.6 28.6 43.0

170 23.0 19.4 29.0





#49

Acenaphthylene

Concen: 4.520 ng

RT: 9.751 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

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ClientSampleId :

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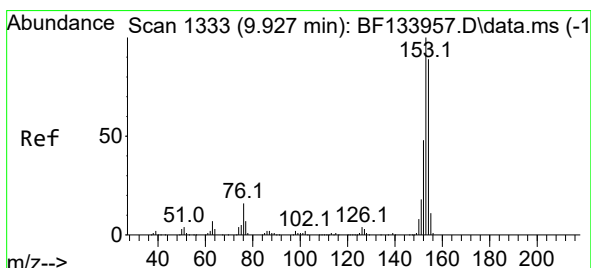
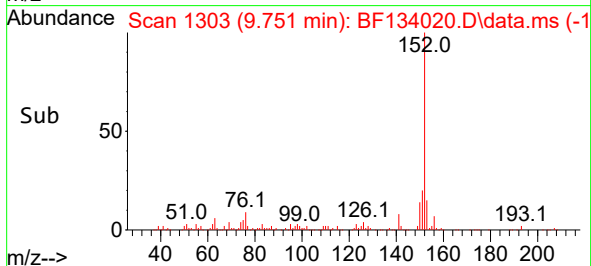
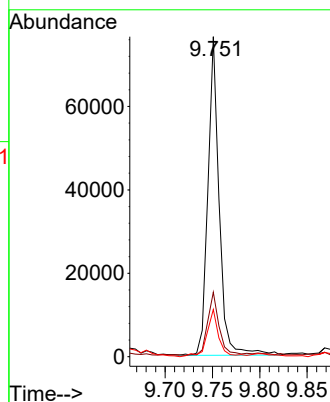
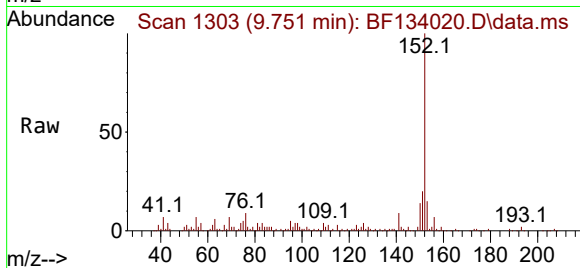
Tgt Ion:152 Resp: 63282

Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

153 14.8 10.8 16.2



#52

Acenaphthene

Concen: 2.162 ng

RT: 9.922 min Scan# 1332

Delta R.T. -0.005 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

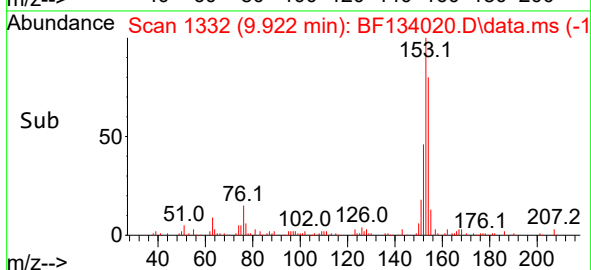
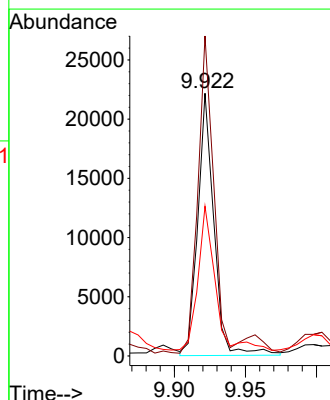
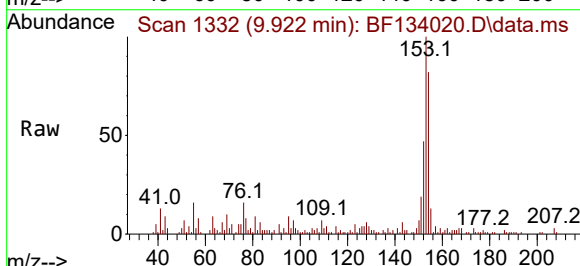
Tgt Ion:154 Resp: 17561

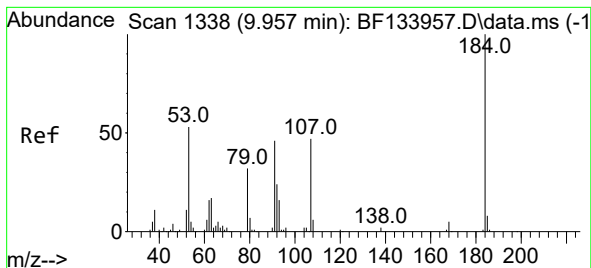
Ion Ratio Lower Upper

154 100

153 121.8 89.4 134.2

152 57.0 42.8 64.2





#54

2,4-Dinitrophenol

Concen: 3.922 ng

RT: 10.186 min Scan# 1

Delta R.T. 0.229 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA\_F

ClientSampleId :

SB-06-COMP

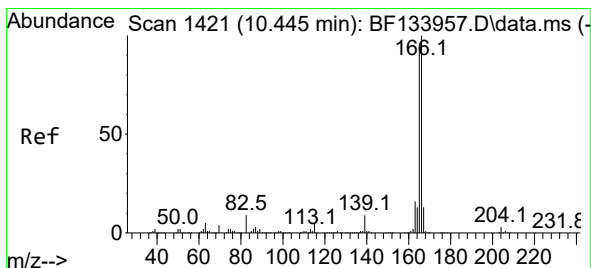
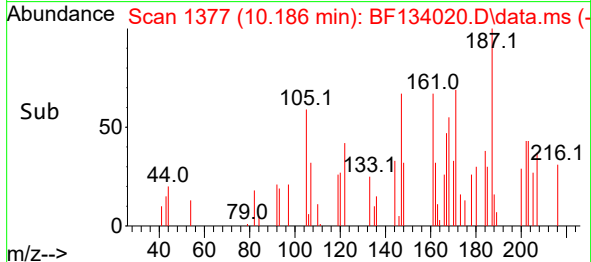
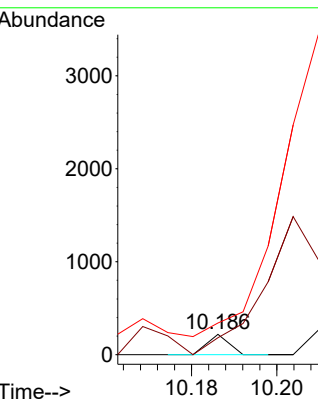
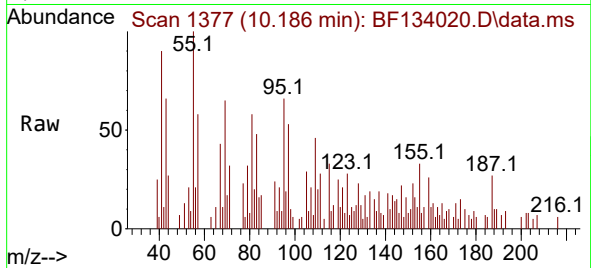
Tgt Ion:184 Resp: 77

Ion Ratio Lower Upper

184 100

63 83.1 56.9 85.3

154 155.7 55.4 83.0#



#58

Fluorene

Concen: 3.861 ng

RT: 10.439 min Scan# 1420

Delta R.T. -0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

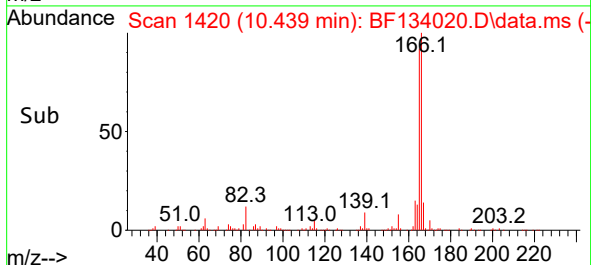
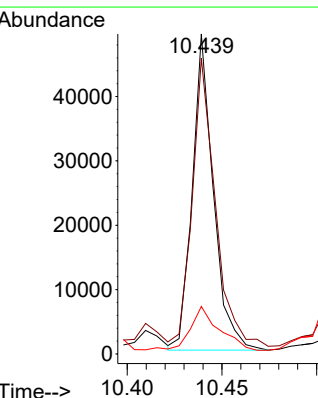
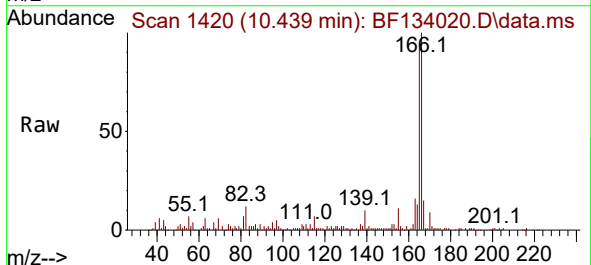
Tgt Ion:166 Resp: 38137

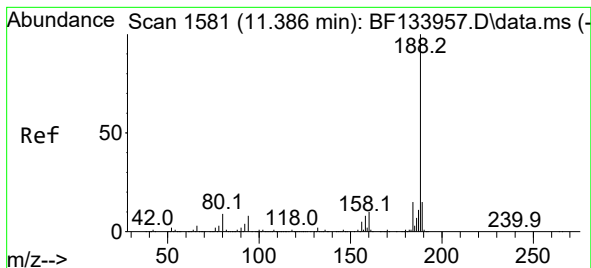
Ion Ratio Lower Upper

166 100

165 92.5 75.0 112.4

167 14.9 10.6 15.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.386 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA\_F

ClientSampleId :

SB-06-COMP

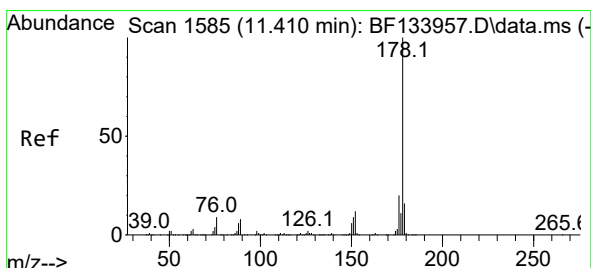
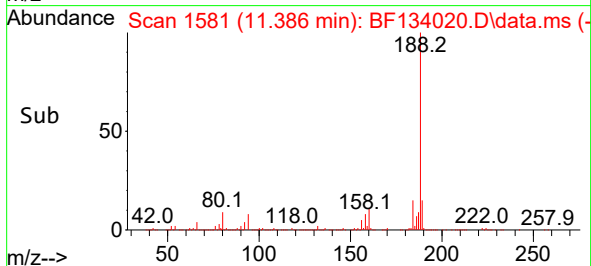
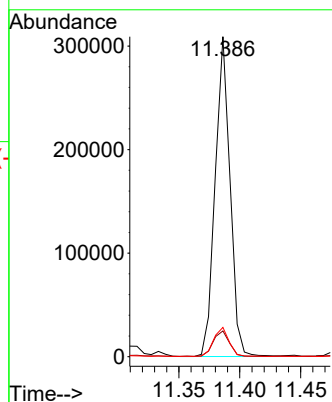
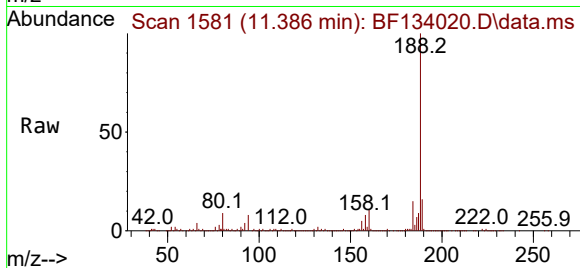
Tgt Ion:188 Resp: 262283

Ion Ratio Lower Upper

188 100

94 8.1 6.4 9.6

80 9.1 7.3 10.9



#71

Phenanthrene

Concen: 45.722 ng

RT: 11.410 min Scan# 1585

Delta R.T. -0.000 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

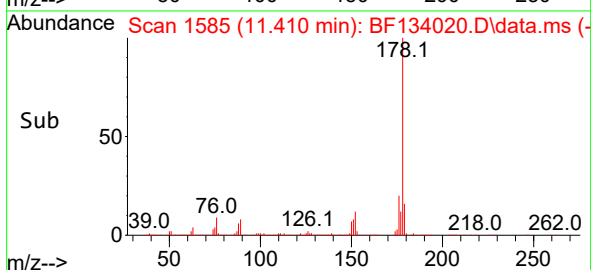
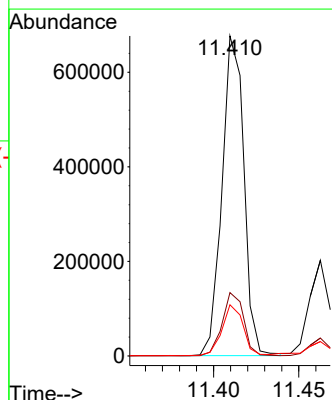
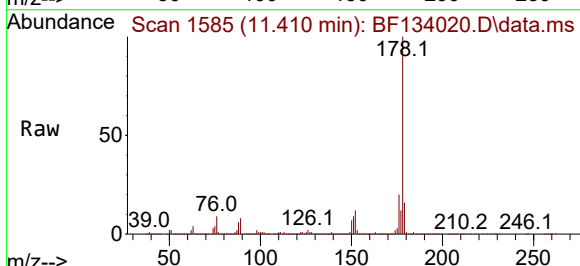
Tgt Ion:178 Resp: 603708

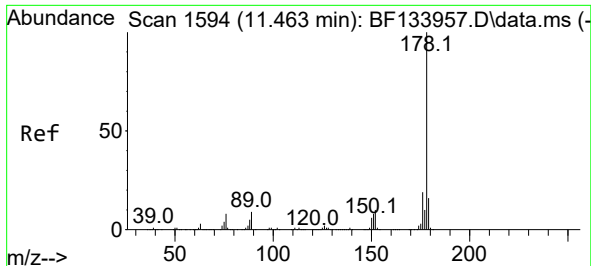
Ion Ratio Lower Upper

178 100

176 19.8 16.0 24.0

179 16.0 12.4 18.6

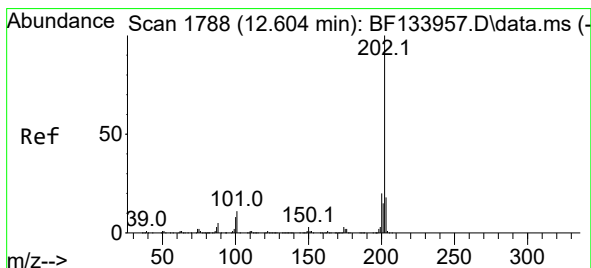
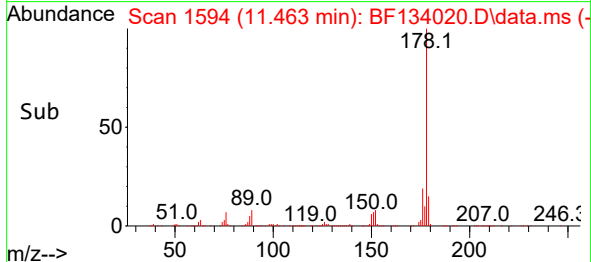
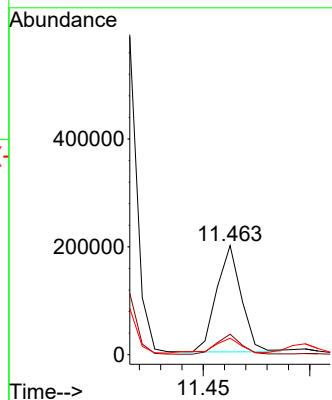
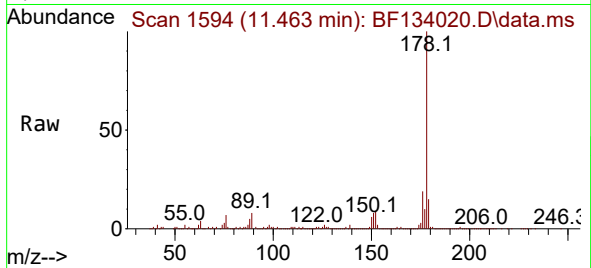




#72  
 Anthracene  
 Concen: 11.613 ng  
 RT: 11.463 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: BF134020.D  
 Acq: 28 Jun 2023 08:31

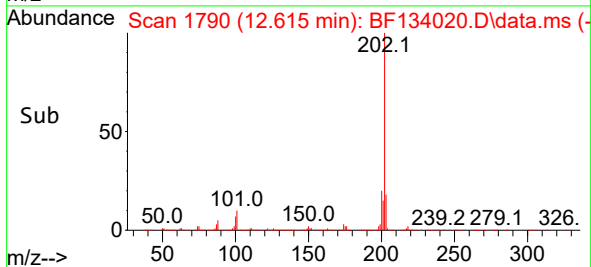
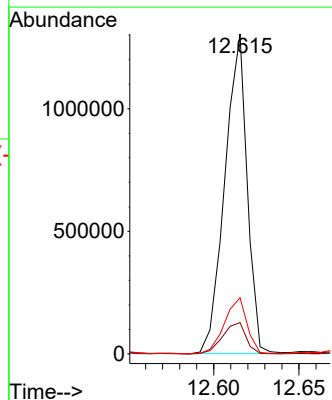
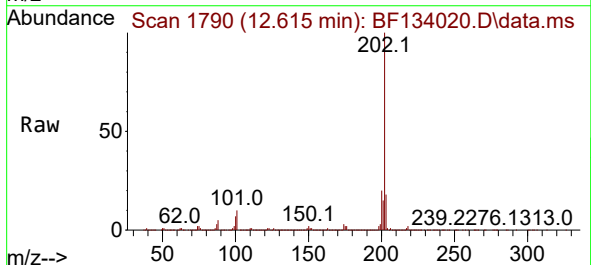
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP

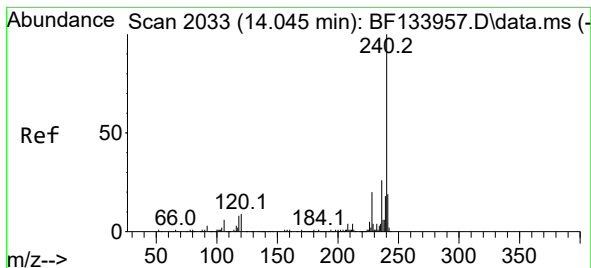
Tgt Ion:178 Resp: 159487  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 15.3 22.9  
 179 15.1 12.4 18.6



#75  
 Fluoranthene  
 Concen: 83.048 ng  
 RT: 12.615 min Scan# 1790  
 Delta R.T. 0.012 min  
 Lab File: BF134020.D  
 Acq: 28 Jun 2023 08:31

Tgt Ion:202 Resp: 1185462  
 Ion Ratio Lower Upper  
 202 100  
 101 9.8 0.0 31.0  
 203 17.5 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2034

Delta R.T. 0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA\_F

ClientSampleId :

SB-06-COMP

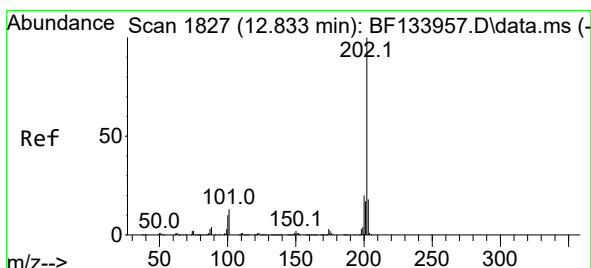
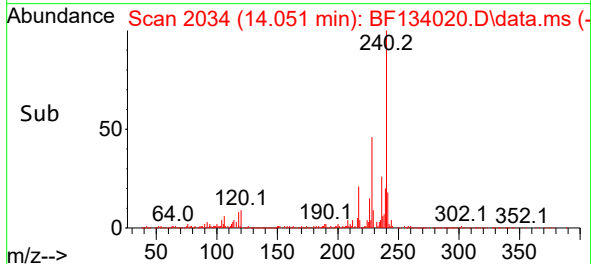
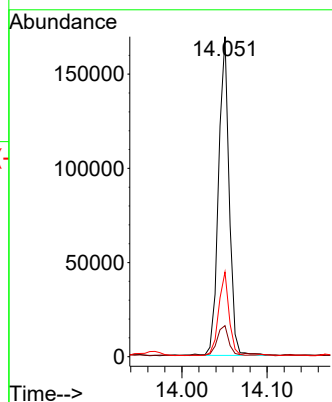
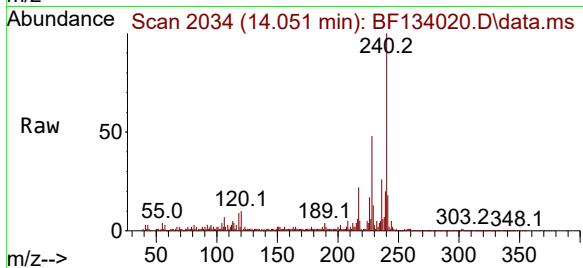
Tgt Ion:240 Resp: 146757

Ion Ratio Lower Upper

240 100

120 9.7 7.4 11.0

236 26.5 21.0 31.6



#78

Pyrene

Concen: 83.742 ng

RT: 12.845 min Scan# 1829

Delta R.T. 0.012 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

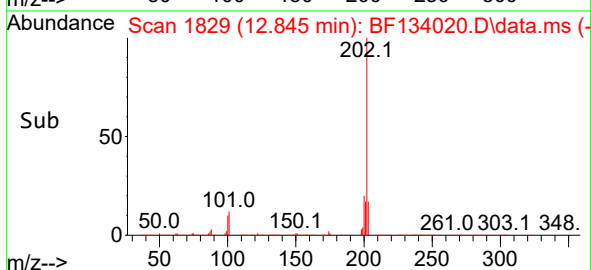
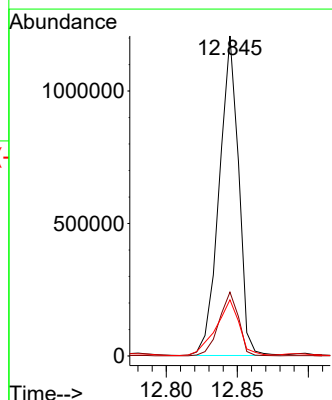
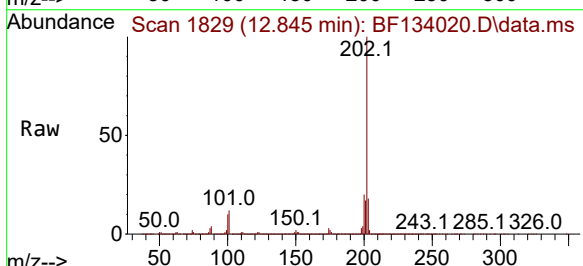
Tgt Ion:202 Resp: 1143722

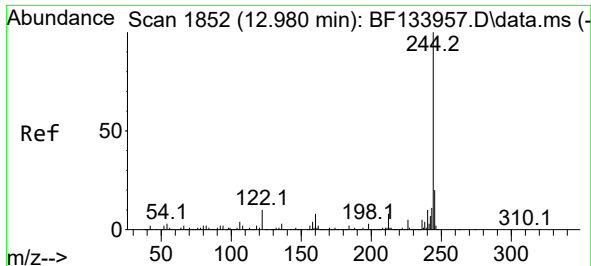
Ion Ratio Lower Upper

202 100

200 19.9 16.1 24.1

203 17.6 14.3 21.5

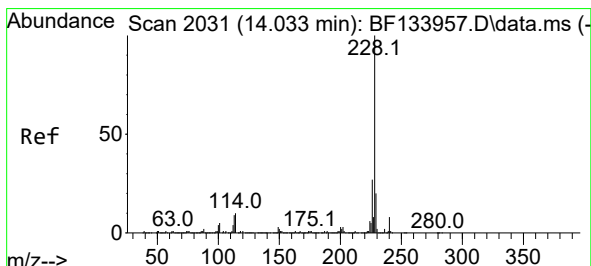
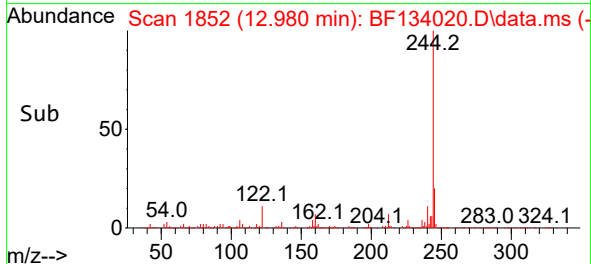
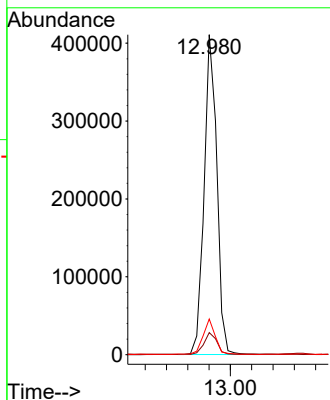
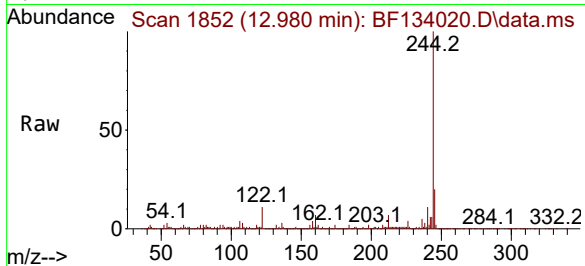




#79  
 Terphenyl-d14  
 Concen: 37.501 ng  
 RT: 12.980 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: BF134020.D  
 Acq: 28 Jun 2023 08:31

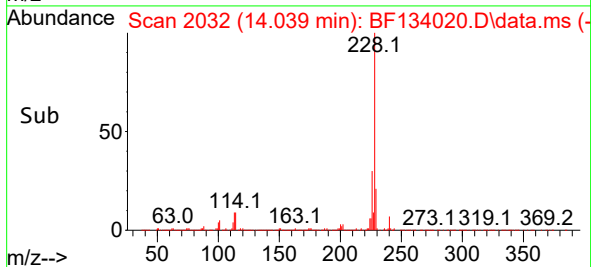
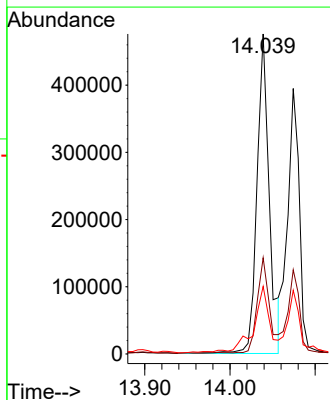
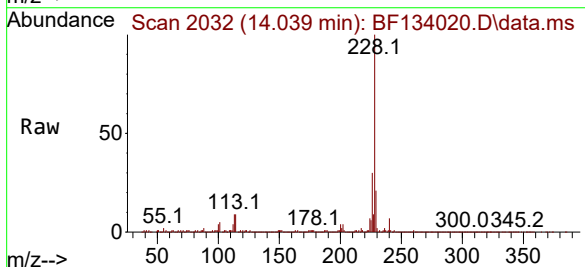
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP

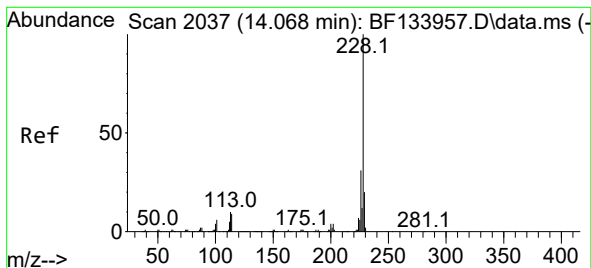
Tgt Ion:244 Resp: 341960  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 6.0 9.0  
 122 11.1 8.3 12.5



#81  
 Benzo(a)anthracene  
 Concen: 46.621 ng  
 RT: 14.039 min Scan# 2032  
 Delta R.T. 0.006 min  
 Lab File: BF134020.D  
 Acq: 28 Jun 2023 08:31

Tgt Ion:228 Resp: 474500  
 Ion Ratio Lower Upper  
 228 100  
 226 30.0 22.0 33.0  
 229 21.1 16.3 24.5





#83

Chrysene

Concen: 38.148 ng

RT: 14.074 min Scan# 2037

Delta R.T. 0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA\_F

ClientSampleId :

SB-06-COMP

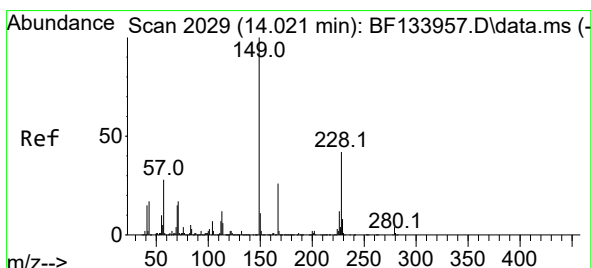
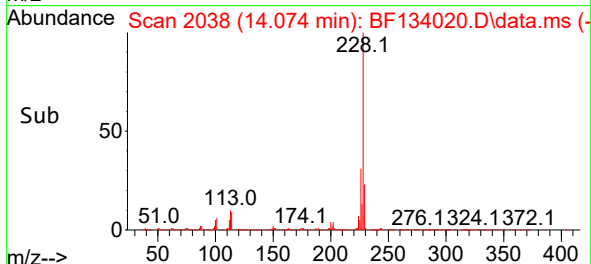
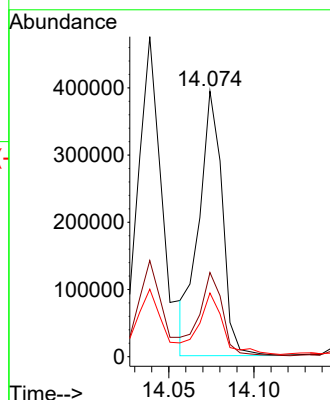
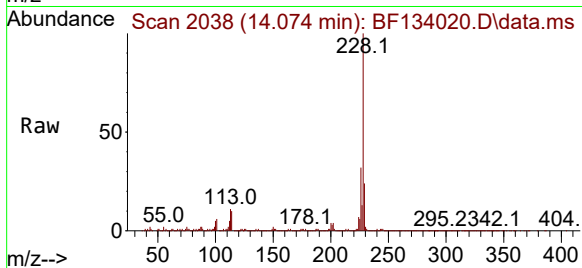
Tgt Ion:228 Resp: 376058

Ion Ratio Lower Upper

228 100

226 31.7 24.4 36.6

229 24.0 16.1 24.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.111 ng

RT: 14.027 min Scan# 2030

Delta R.T. 0.006 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

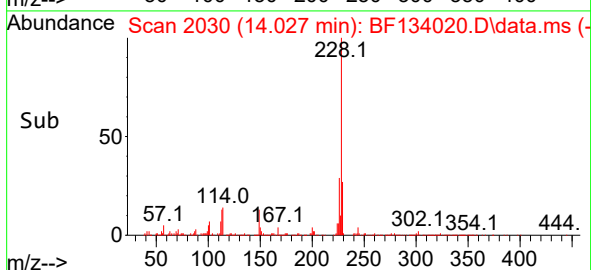
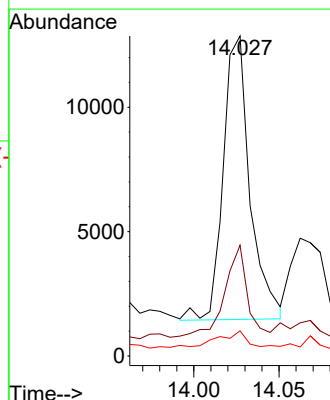
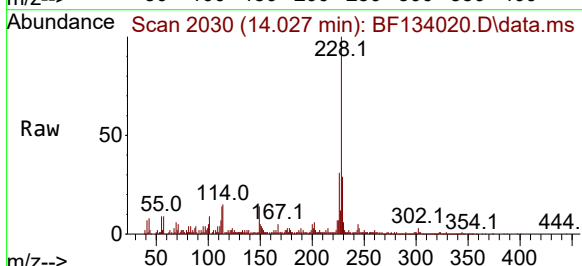
Tgt Ion:149 Resp: 12426

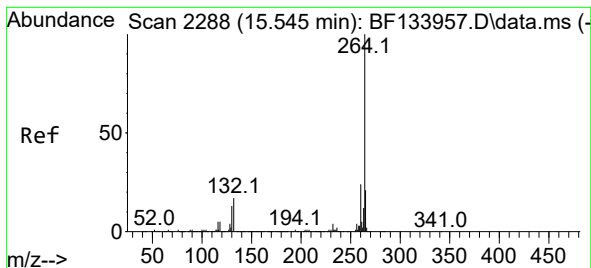
Ion Ratio Lower Upper

149 100

167 34.6 21.0 31.4#

279 7.9 3.3 4.9#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.556 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA\_F

ClientSampleId :

SB-06-COMP

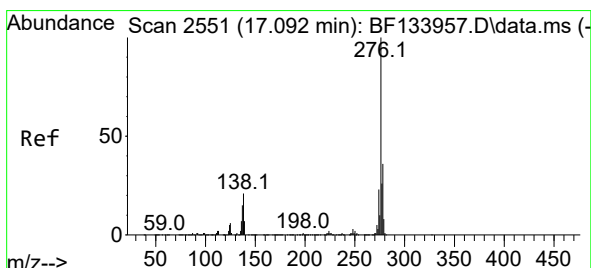
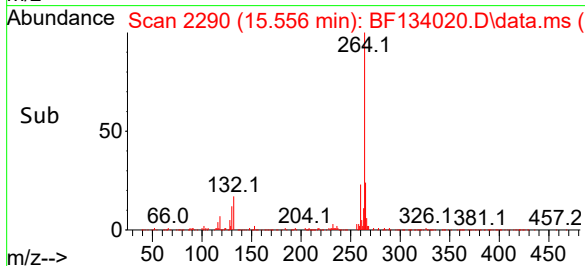
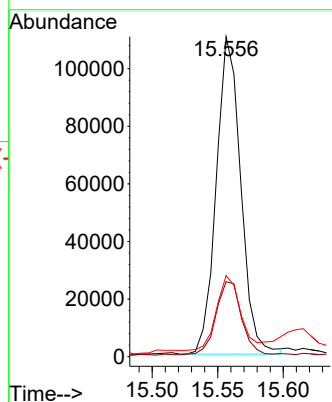
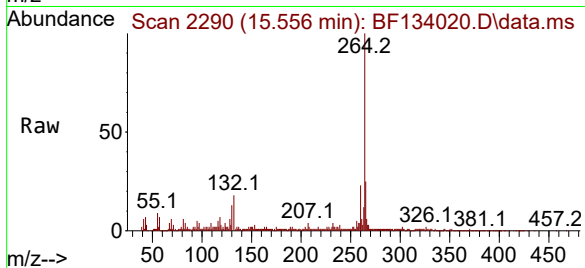
Tgt Ion:264 Resp: 143039

Ion Ratio Lower Upper

264 100

260 23.5 19.5 29.3

265 25.3 16.6 25.0#



#87

Indeno(1,2,3-cd)pyrene

Concen: 14.540 ng

RT: 17.109 min Scan# 2554

Delta R.T. 0.018 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

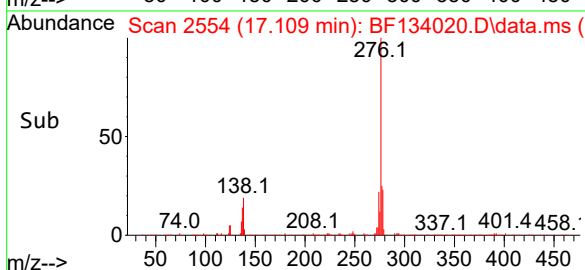
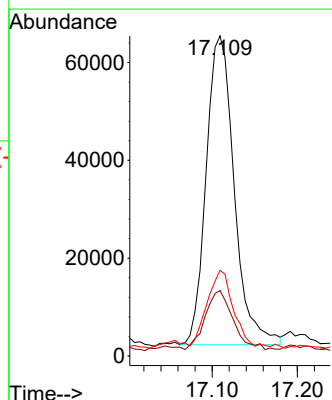
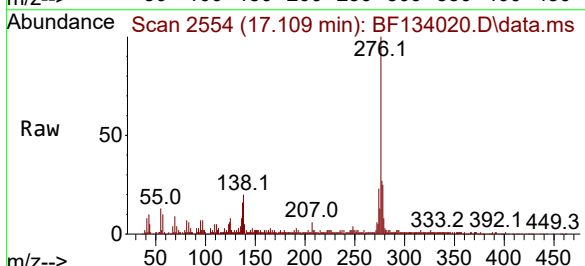
Tgt Ion:276 Resp: 144314

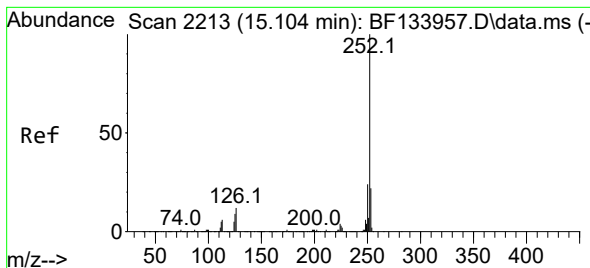
Ion Ratio Lower Upper

276 100

138 18.9 18.7 28.1

277 23.0 19.9 29.9





#88

Benzo(b)fluoranthene

Concen: 71.785 ng

RT: 15.115 min Scan# 2215

Delta R.T. 0.012 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA\_F

ClientSampleId :

SB-06-COMP

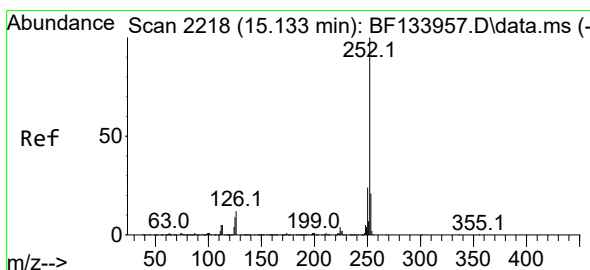
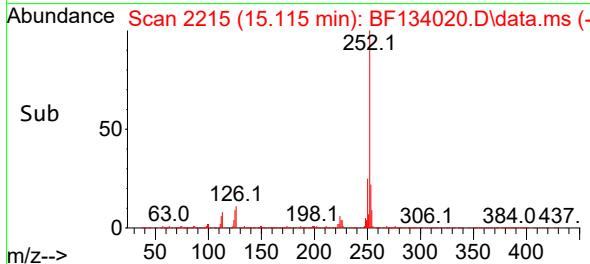
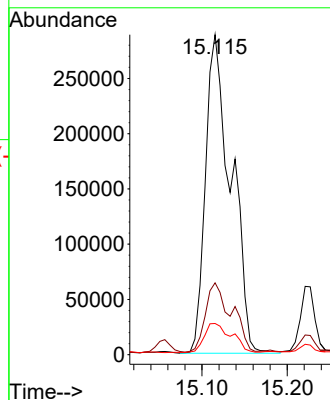
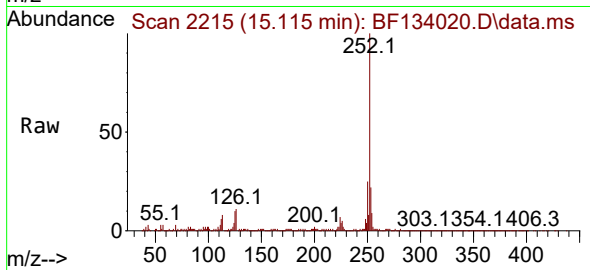
Tgt Ion:252 Resp: 603770

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

125 9.8 7.1 10.7



#89

Benzo(k)fluoranthene

Concen: 70.505 ng

RT: 15.115 min Scan# 2215

Delta R.T. -0.018 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

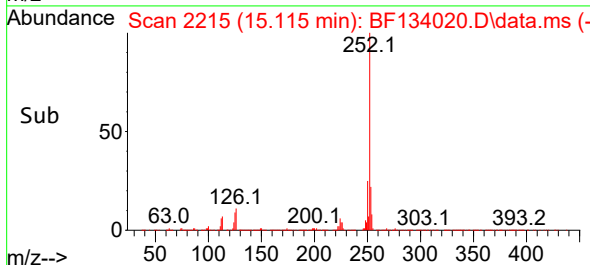
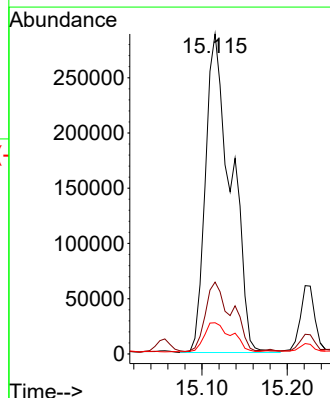
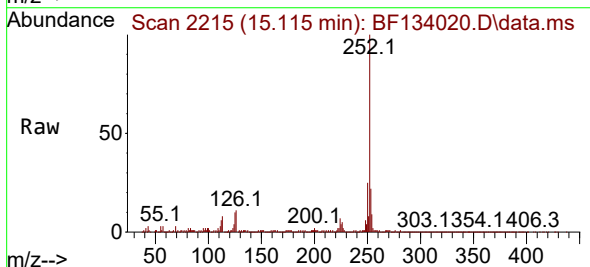
Tgt Ion:252 Resp: 603770

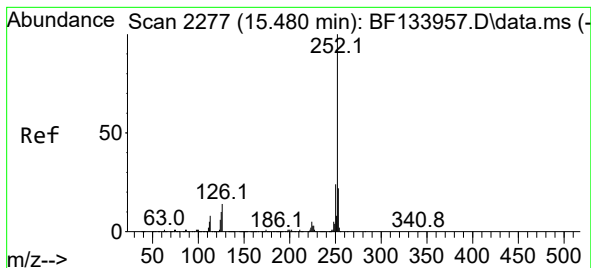
Ion Ratio Lower Upper

252 100

253 22.4 16.9 25.3

125 9.8 7.4 11.2





#90

Benzo(a)pyrene

Concen: 39.374 ng

RT: 15.498 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

Instrument :

BNA\_F

ClientSampleId :

SB-06-COMP

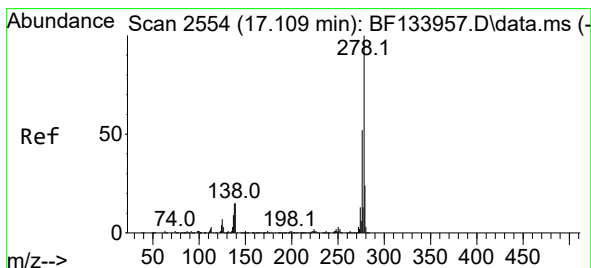
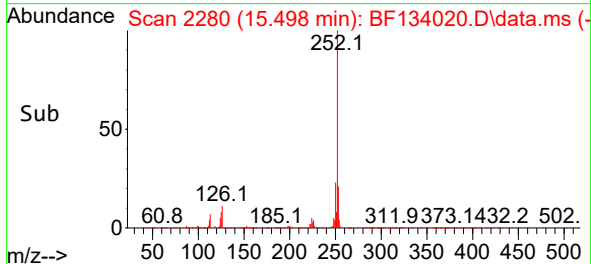
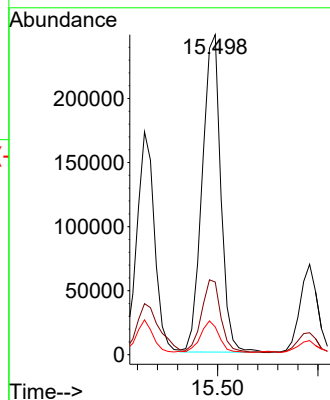
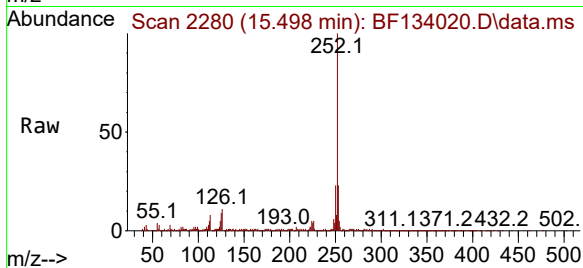
Tgt Ion:252 Resp: 320237

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

125 8.6 8.4 12.6



#91

Dibenzo(a,h)anthracene

Concen: 4.652 ng

RT: 17.121 min Scan# 2556

Delta R.T. 0.012 min

Lab File: BF134020.D

Acq: 28 Jun 2023 08:31

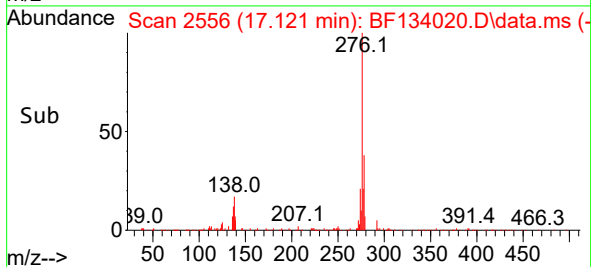
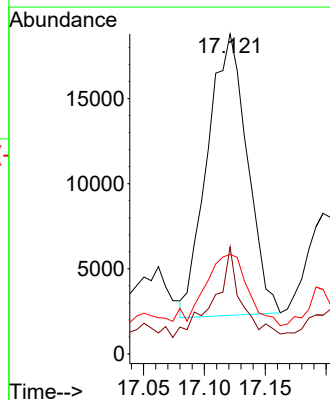
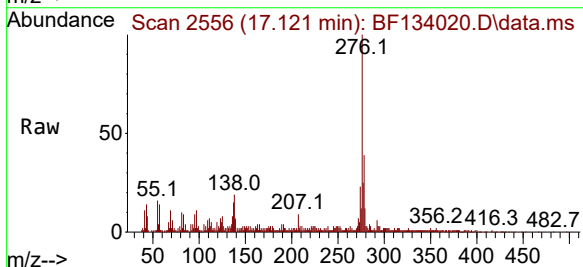
Tgt Ion:278 Resp: 37711

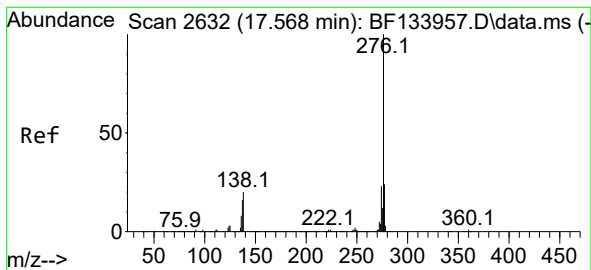
Ion Ratio Lower Upper

278 100

139 33.5 12.2 18.4#

279 31.1 19.4 29.2#





#92  
 Benzo(g,h,i)perylene  
 Concen: 15.052 ng  
 RT: 17.580 min Scan# 20  
 Delta R.T. 0.012 min  
 Lab File: BF134020.D  
 Acq: 28 Jun 2023 08:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-COMP

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 276   | Resp: | 125837 |
| Ion      | Ratio | Lower | Upper  |
| 276      | 100   |       |        |
| 277      | 22.5  | 19.0  | 28.6   |
| 138      | 20.4  | 16.2  | 24.2   |

