

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF030323\  
 Data File : BF132629.D  
 Acq On : 03 Mar 2023 15:23  
 Operator : CG\JU  
 Sample : 01767-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CE-45-030123

Quant Time: Mar 04 02:17:18 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 24 23:17:30 2023  
 Response via : Initial Calibration

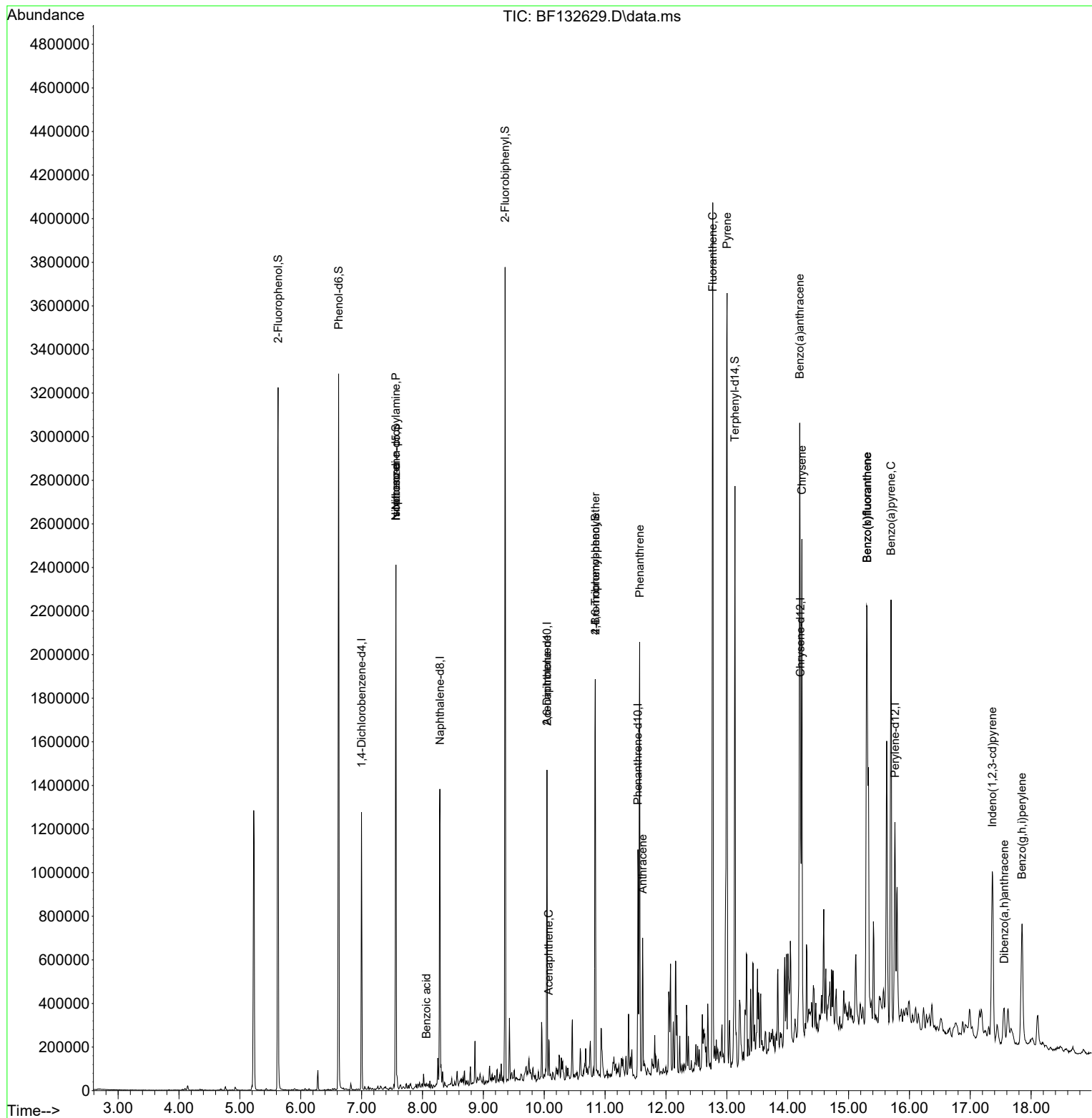
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.998  | 152  | 172466   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.286  | 136  | 581532   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 10.045 | 164  | 250891   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.539 | 188  | 400787   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.210 | 240  | 343516   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.762 | 264  | 434182   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.628  | 112  | 949780   | 89.378 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.622  | 99   | 1147286  | 82.725 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.563  | 82   | 724880   | 59.139 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.839 | 330  | 207220   | 76.479 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.357  | 172  | 1048994  | 63.664 | ng    | -0.01    |
| 79) Terphenyl-d14             | 13.133 | 244  | 875374   | 43.085 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.563  | 70   | 97859    | 11.465 | ng    | # 75     |
| 25) Isophorone                | 7.563  | 82   | 724843   | 30.845 | ng    | # 67     |
| 32) Benzoic acid              | 8.063  | 122  | 390      | 3.886  | ng    | # 34     |
| 51) 2,6-Dinitrotoluene        | 10.045 | 165  | 35105    | 8.438  | ng    | # 22     |
| 52) Acenaphthene              | 10.075 | 154  | 35688    | 2.346  | ng    | 97       |
| 67) 4-Bromophenyl-phenylether | 10.839 | 248  | 13693    | 3.020  | ng    | # 1      |
| 71) Phenanthrene              | 11.569 | 178  | 721503   | 34.750 | ng    | 98       |
| 72) Anthracene                | 11.616 | 178  | 226400   | 10.589 | ng    | 99       |
| 75) Fluoranthene              | 12.768 | 202  | 1634912  | 72.029 | ng    | 99       |
| 78) Pyrene                    | 13.004 | 202  | 1642741  | 52.599 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.198 | 228  | 1009107  | 39.261 | ng    | 97       |
| 83) Chrysene                  | 14.233 | 228  | 887814   | 36.938 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.362 | 276  | 568208   | 19.972 | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.304 | 252  | 1776398  | 61.051 | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 15.304 | 252  | 1776398  | 62.381 | ng    | 97       |
| 90) Benzo(a)pyrene            | 15.698 | 252  | 1012635  | 37.185 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene    | 17.556 | 278  | 119468   | 5.154  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.850 | 276  | 507451   | 20.334 | ng    | 99       |
| -----                         |        |      |          |        |       |          |

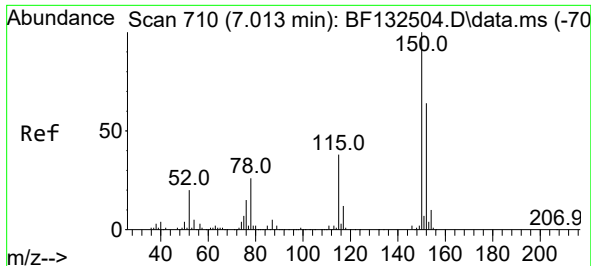
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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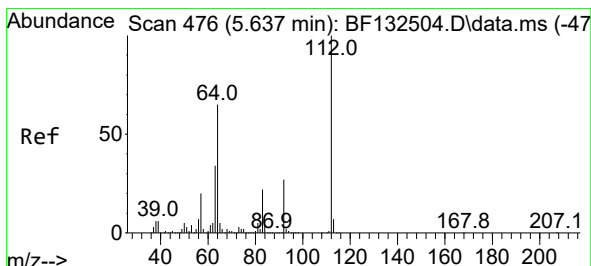
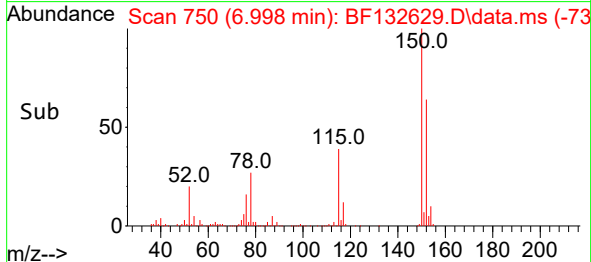
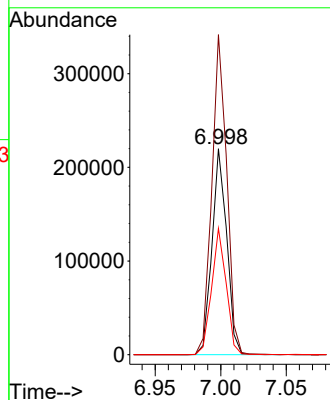
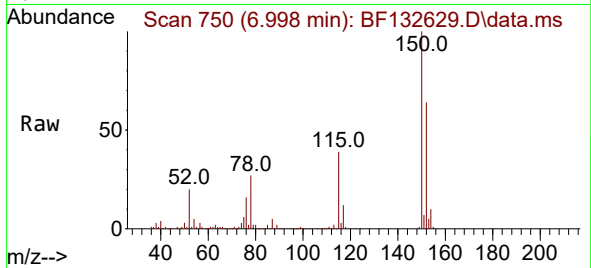




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.998 min Scan# 710  
Delta R.T. -0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

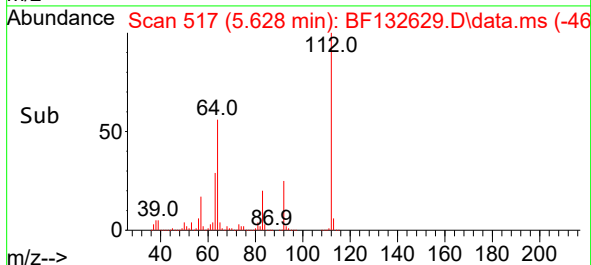
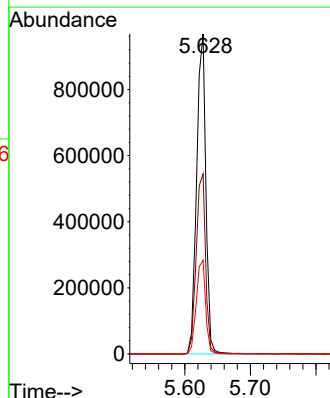
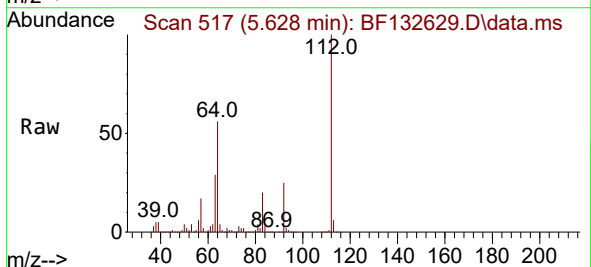
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

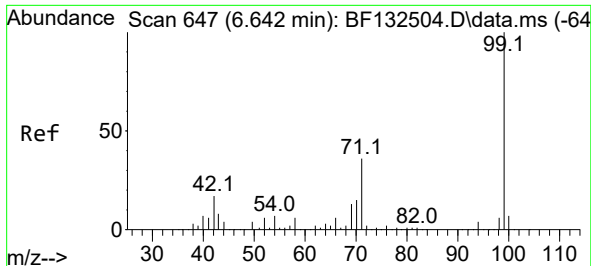
Tgt Ion:152 Resp: 172466  
Ion Ratio Lower Upper  
152 100  
150 155.4 125.4 188.2  
115 61.3 47.8 71.6



#5  
2-Fluorophenol  
Concen: 89.378 ng  
RT: 5.628 min Scan# 517  
Delta R.T. -0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:112 Resp: 949780  
Ion Ratio Lower Upper  
112 100  
64 56.3 51.6 77.4  
63 29.3 27.4 41.2

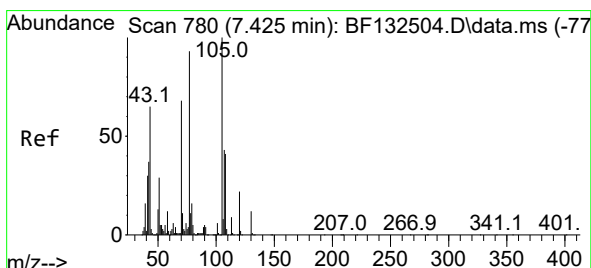
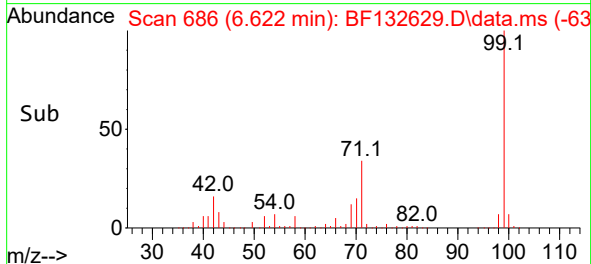
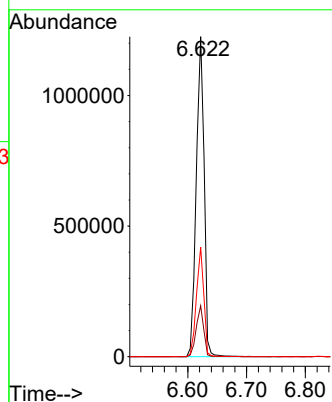
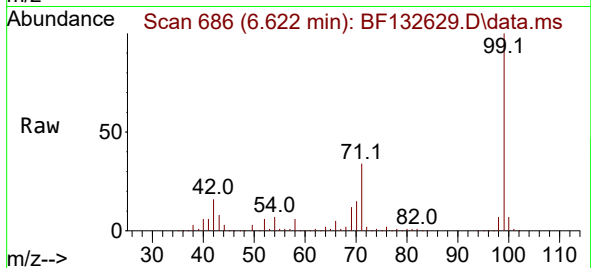




#7  
Phenol-d6  
Concen: 82.725 ng  
RT: 6.622 min Scan# 61  
Delta R.T. -0.015 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

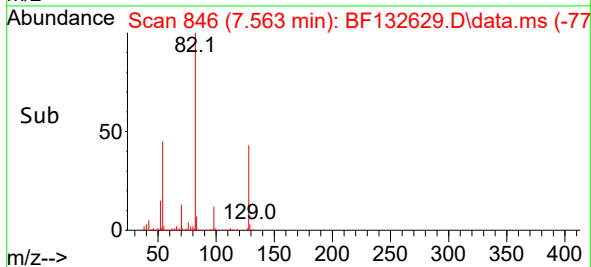
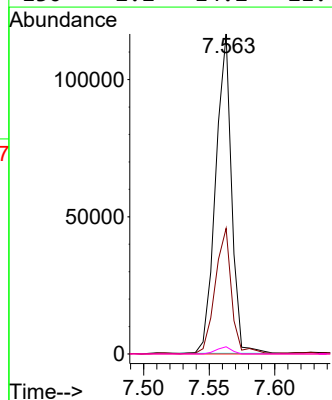
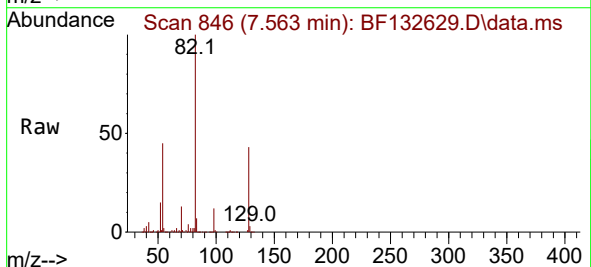
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

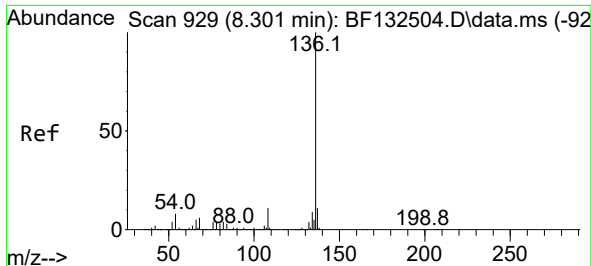
Tgt Ion: 99 Resp: 1147286  
Ion Ratio Lower Upper  
99 100  
42 15.9 13.9 20.9  
71 34.3 28.5 42.7



#19  
n-Nitroso-di-n-propylamine  
Concen: 11.465 ng  
RT: 7.563 min Scan# 846  
Delta R.T. 0.144 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion: 70 Resp: 97859  
Ion Ratio Lower Upper  
70 100  
42 39.3 44.1 66.1#  
101 0.0 7.4 11.2#  
130 2.2 14.2 21.4#



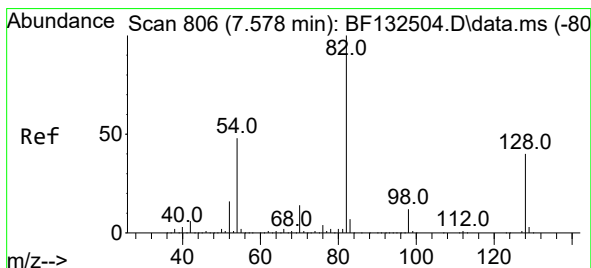
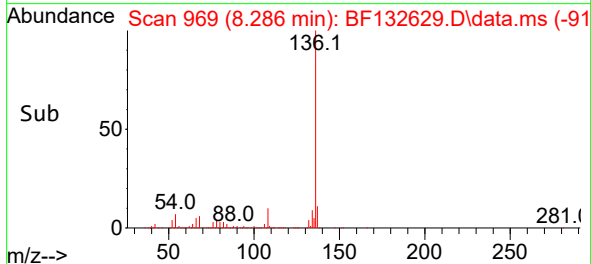
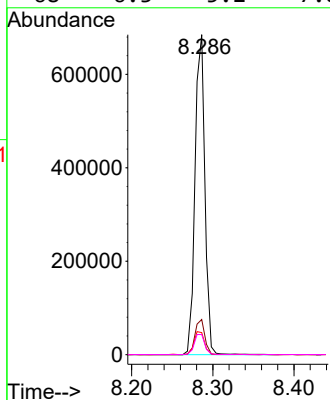
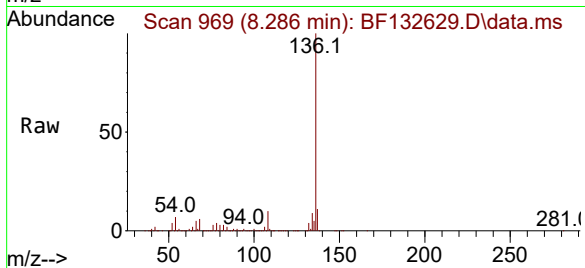


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.286 min Scan# 910  
Delta R.T. -0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

Tgt Ion:136 Resp: 581532

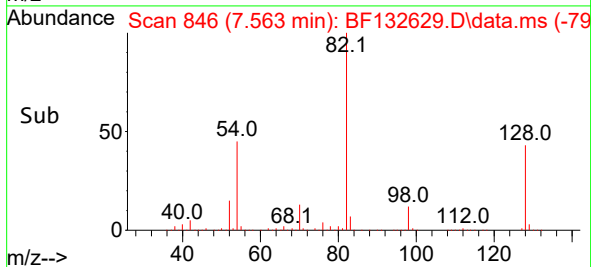
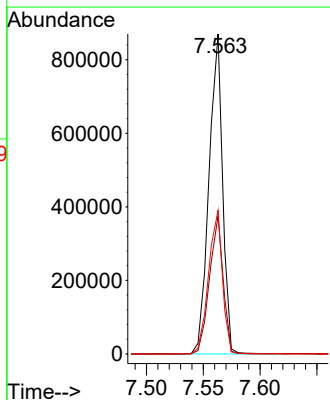
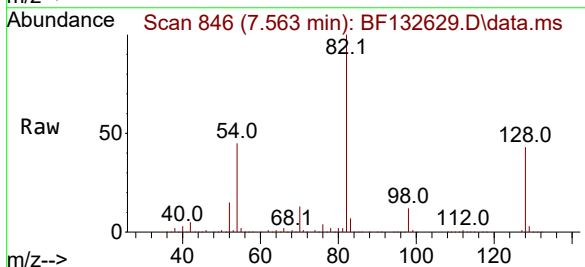
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.0  | 8.9   | 13.3  |
| 54  | 6.9   | 6.2   | 9.4   |
| 68  | 6.3   | 5.2   | 7.8   |

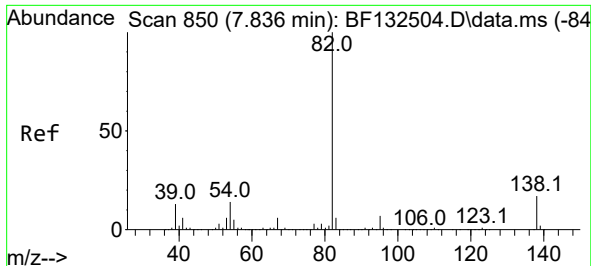


#23  
Nitrobenzene-d5  
Concen: 59.139 ng  
RT: 7.563 min Scan# 846  
Delta R.T. -0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion: 82 Resp: 724880

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 43.1  | 32.2  | 48.2  |
| 54  | 44.9  | 38.4  | 57.6  |

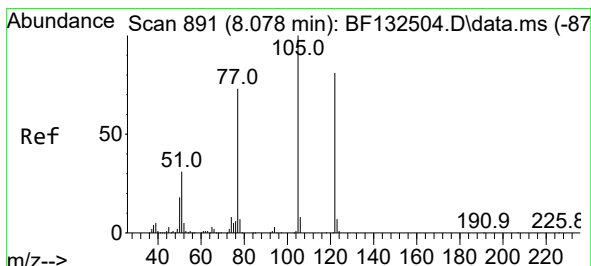
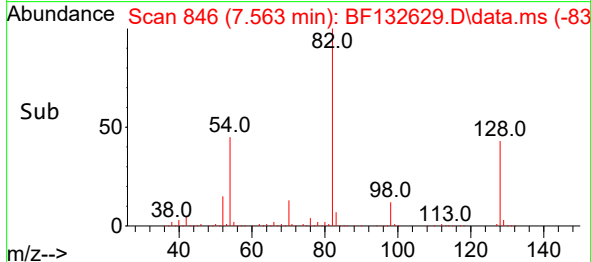
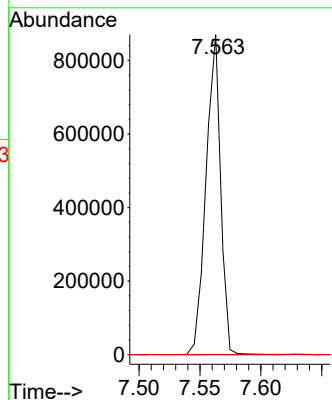
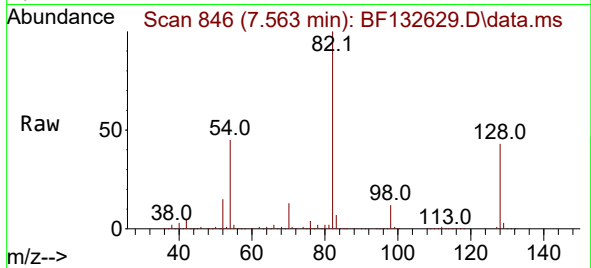




#25  
Isophorone  
Concen: 30.845 ng  
RT: 7.563 min Scan# 84  
Delta R.T. -0.262 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

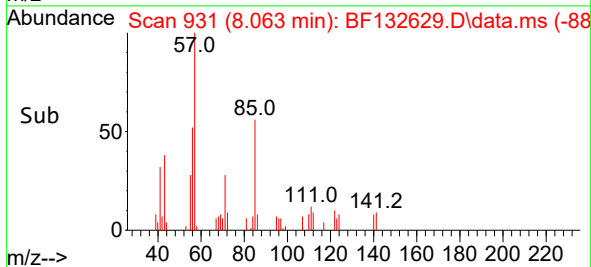
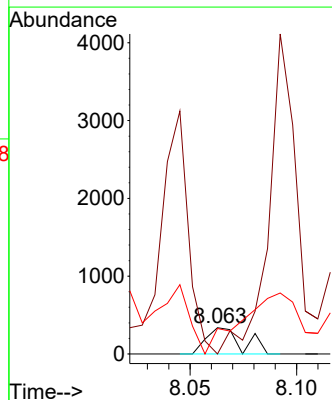
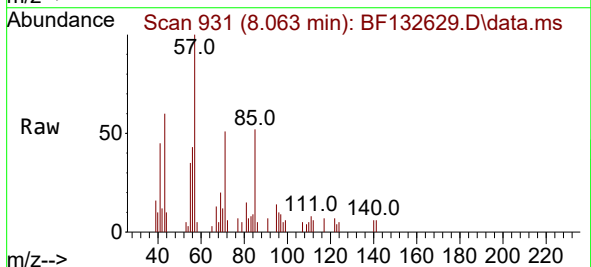
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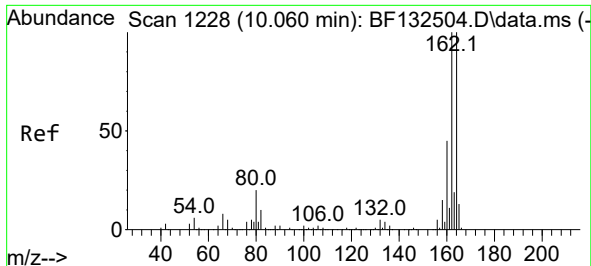
Tgt Ion: 82 Resp: 724843  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 13.3 19.9#



#32  
Benzoic acid  
Concen: 3.886 ng  
RT: 8.063 min Scan# 931  
Delta R.T. -0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion: 122 Resp: 390  
Ion Ratio Lower Upper  
122 100  
105 0.0 102.6 142.6#  
77 97.0 70.2 110.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.045 min Scan# 11

Delta R.T. -0.009 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

CE-45-030123

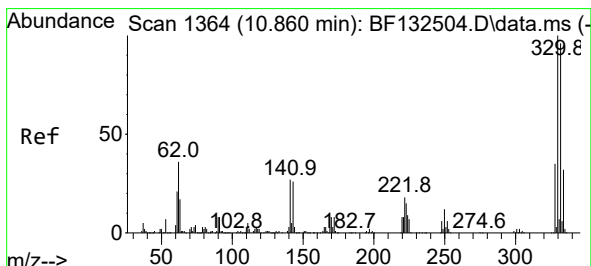
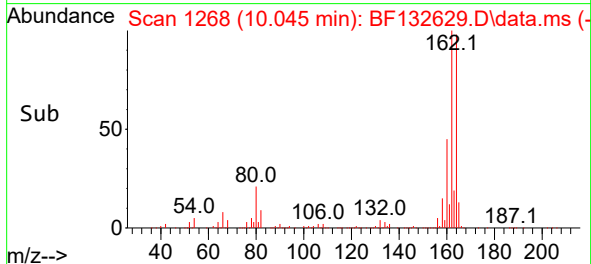
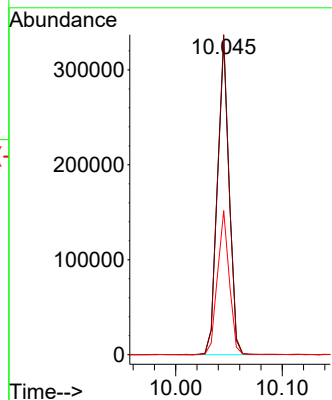
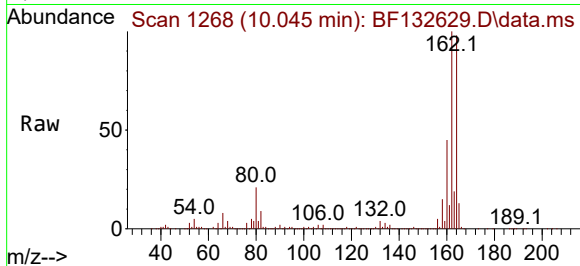
Tgt Ion:164 Resp: 250891

Ion Ratio Lower Upper

164 100

162 101.9 79.8 119.8

160 45.8 35.8 53.6



#42

2,4,6-Tribromophenol

Concen: 76.479 ng

RT: 10.839 min Scan# 1403

Delta R.T. -0.009 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

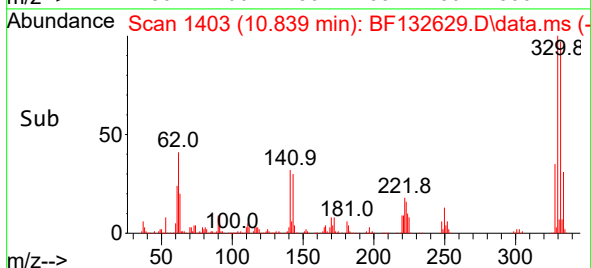
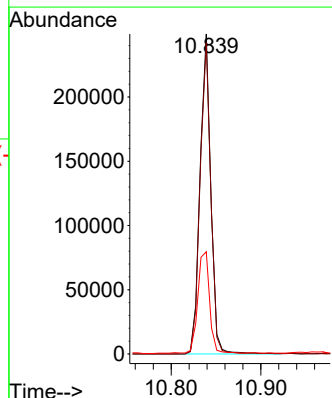
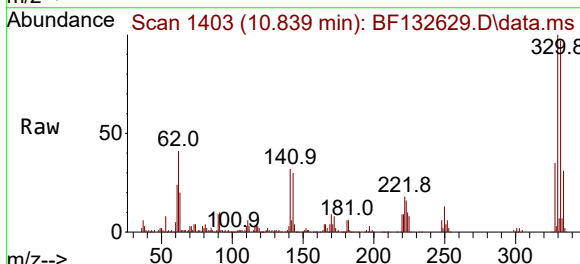
Tgt Ion:330 Resp: 207220

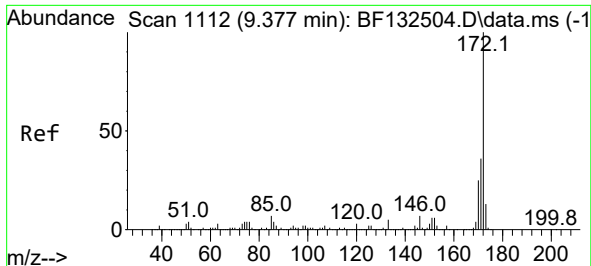
Ion Ratio Lower Upper

330 100

332 96.9 76.2 114.4

141 35.2 28.4 42.6

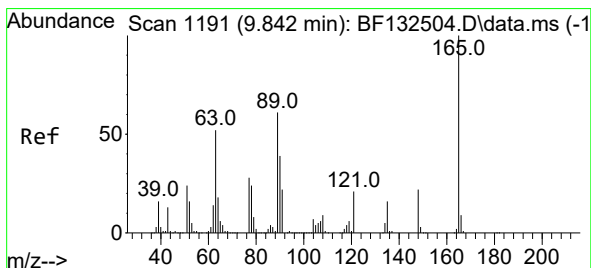
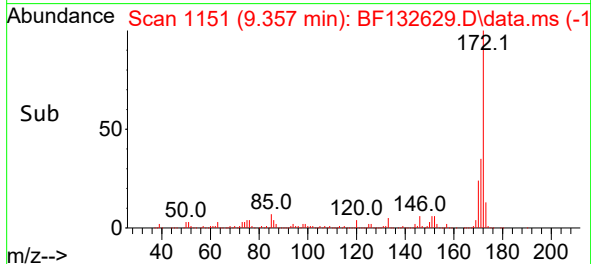
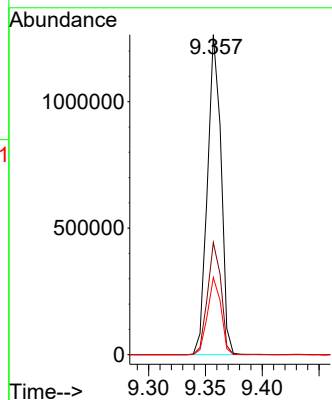
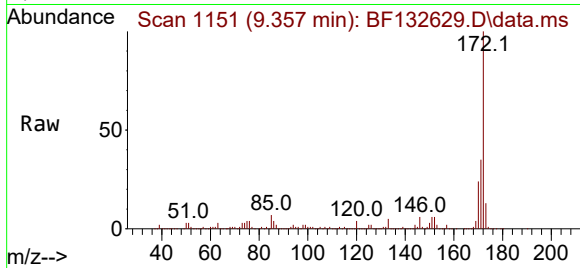




#45  
2-Fluorobiphenyl  
Concen: 63.664 ng  
RT: 9.357 min Scan# 1112  
Delta R.T. -0.015 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

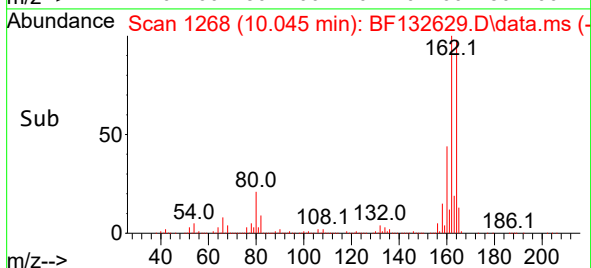
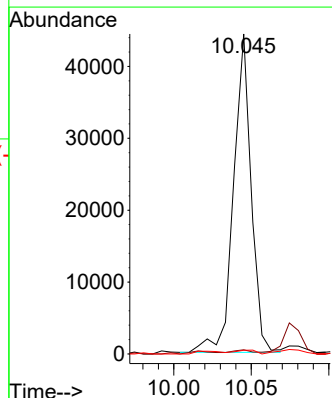
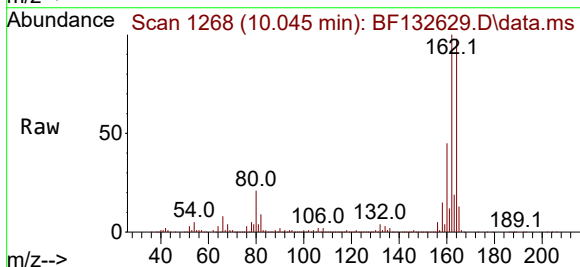
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

Tgt Ion:172 Resp: 1048994  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.8 43.2  
170 24.1 19.7 29.5

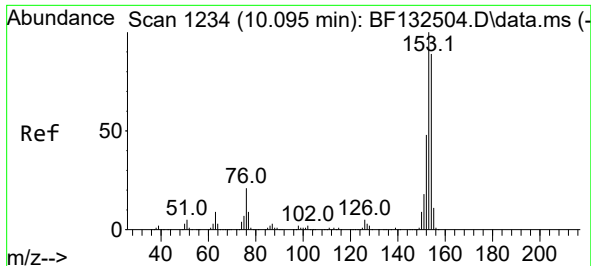


#51  
2,6-Dinitrotoluene  
Concen: 8.438 ng  
RT: 10.045 min Scan# 1268  
Delta R.T. 0.209 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:165 Resp: 35105  
Ion Ratio Lower Upper  
165 100  
63 1.3 47.3 70.9#  
89 1.2 48.9 73.3#



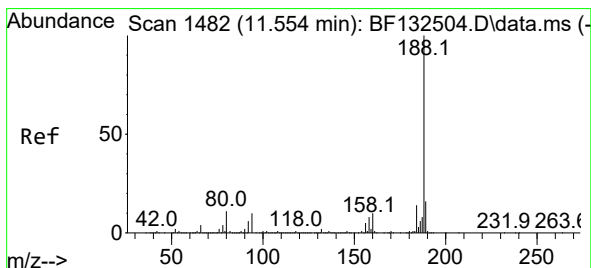
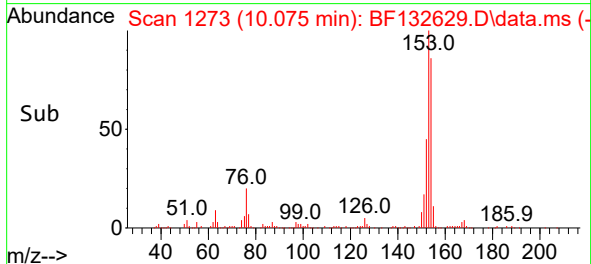
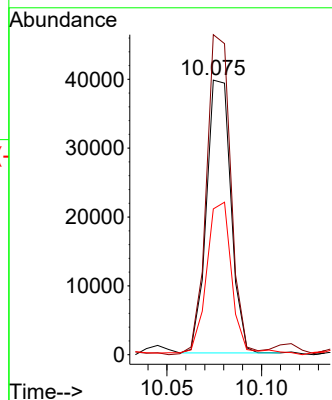
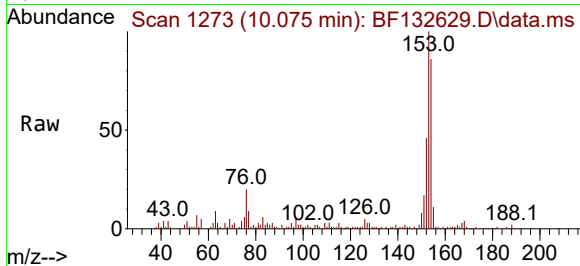




#52  
Acenaphthene  
Concen: 2.346 ng  
RT: 10.075 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

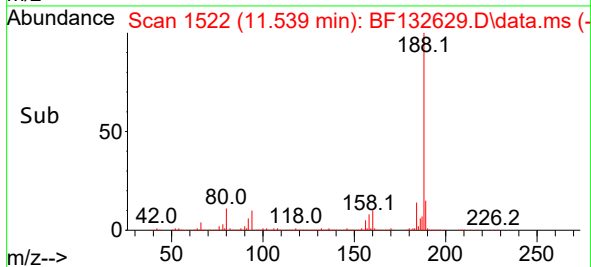
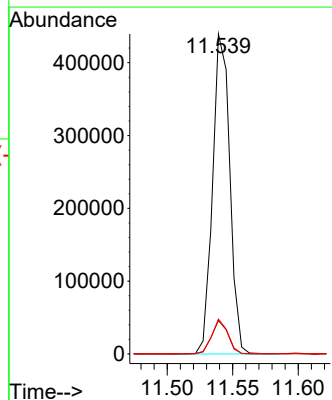
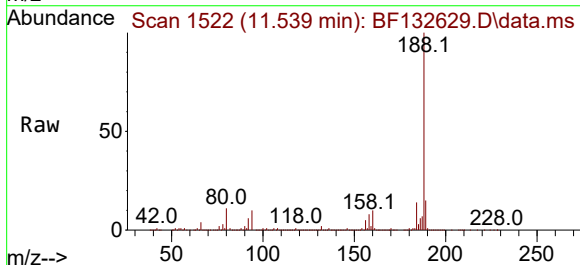
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

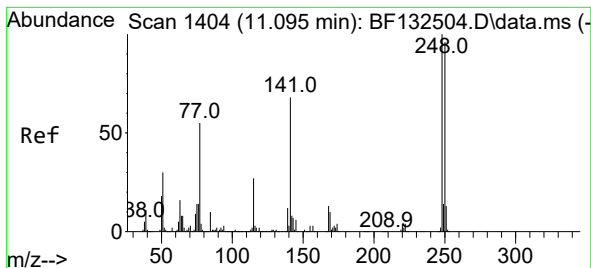
Tgt Ion:154 Resp: 35688  
Ion Ratio Lower Upper  
154 100  
153 116.5 89.8 134.8  
152 53.1 43.3 64.9



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.539 min Scan# 1522  
Delta R.T. -0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:188 Resp: 400787  
Ion Ratio Lower Upper  
188 100  
94 10.5 8.3 12.5  
80 10.9 8.7 13.1

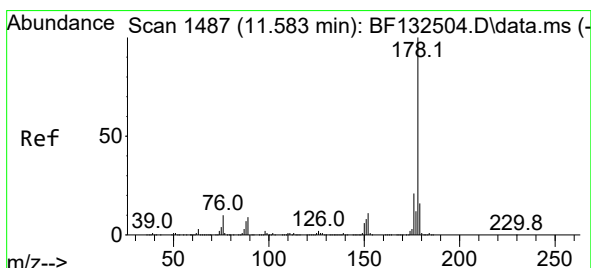
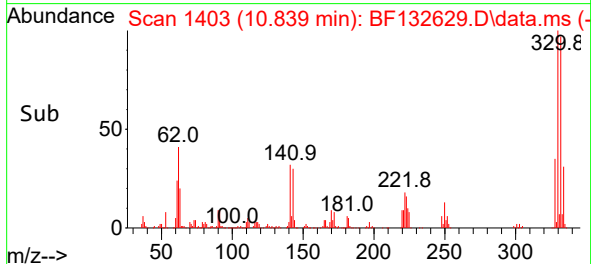
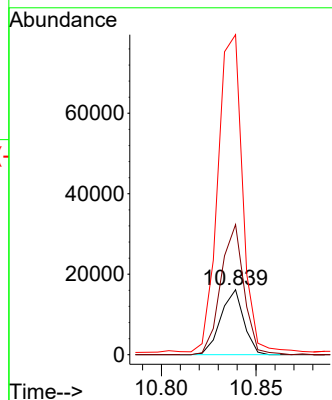
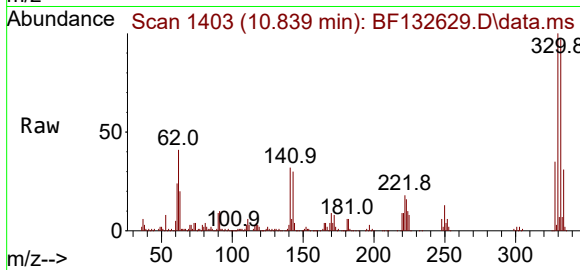




#67  
4-Bromophenyl-phenylether  
Concen: 3.020 ng  
RT: 10.839 min Scan# 14  
Delta R.T. -0.250 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

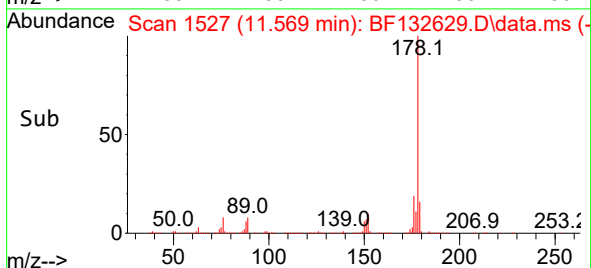
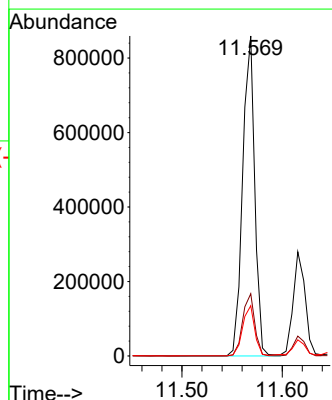
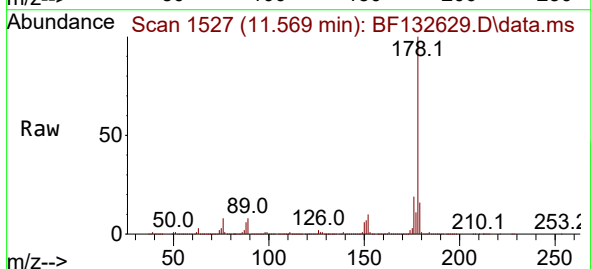
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

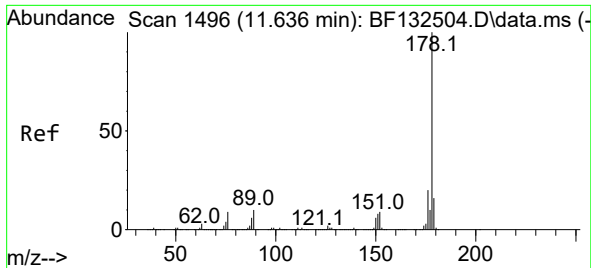
Tgt Ion:248 Resp: 13693  
Ion Ratio Lower Upper  
248 100  
250 200.4 77.0 115.4#  
141 492.9 54.2 81.2#



#71  
Phenanthrene  
Concen: 34.750 ng  
RT: 11.569 min Scan# 1527  
Delta R.T. -0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:178 Resp: 721503  
Ion Ratio Lower Upper  
178 100  
176 19.5 16.5 24.7  
179 15.7 13.0 19.6

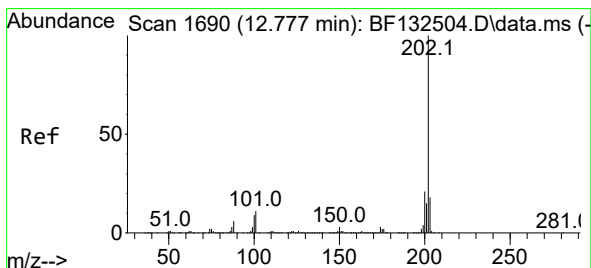
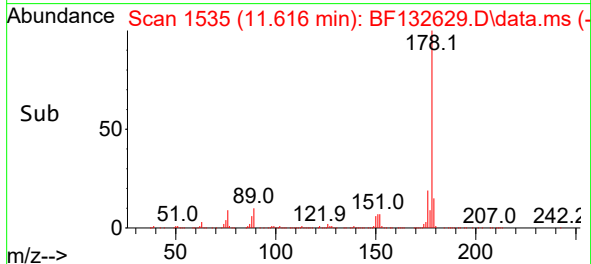
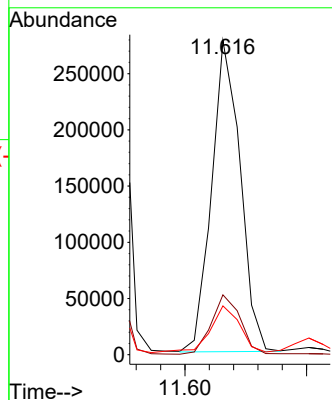
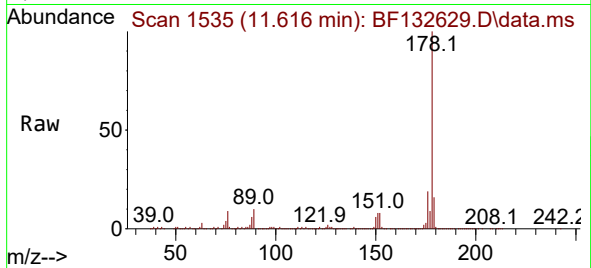




#72  
 Anthracene  
 Concen: 10.589 ng  
 RT: 11.616 min Scan# 11  
 Delta R.T. -0.015 min  
 Lab File: BF132629.D  
 Acq: 03 Mar 2023 15:23

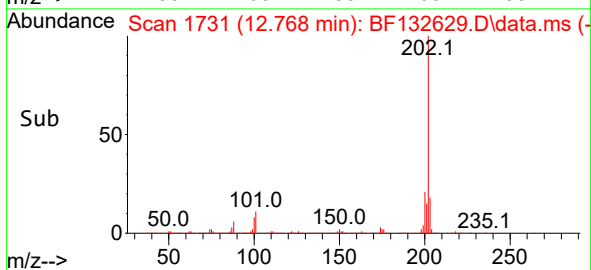
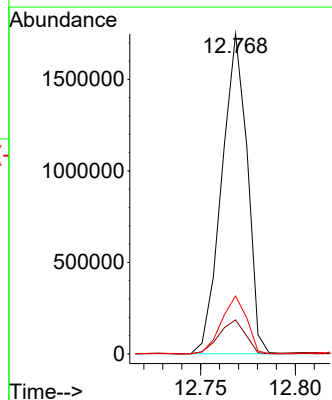
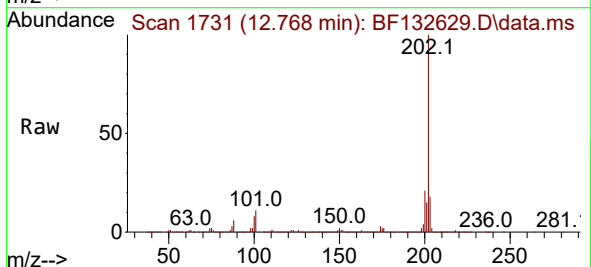
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CE-45-030123

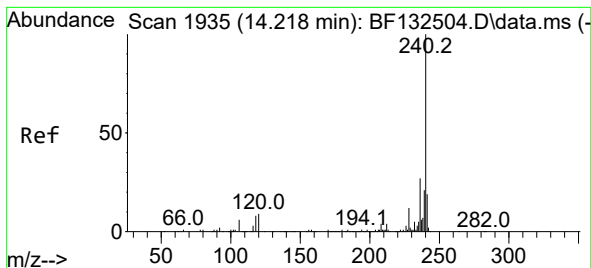
Tgt Ion:178 Resp: 226400  
 Ion Ratio Lower Upper  
 178 100  
 176 19.0 15.6 23.4  
 179 15.6 12.5 18.7



#75  
 Fluoranthene  
 Concen: 72.029 ng  
 RT: 12.768 min Scan# 1731  
 Delta R.T. -0.003 min  
 Lab File: BF132629.D  
 Acq: 03 Mar 2023 15:23

Tgt Ion:202 Resp: 1634912  
 Ion Ratio Lower Upper  
 202 100  
 101 10.6 0.0 31.4  
 203 18.1 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.210 min Scan# 1935

Delta R.T. 0.003 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

CE-45-030123

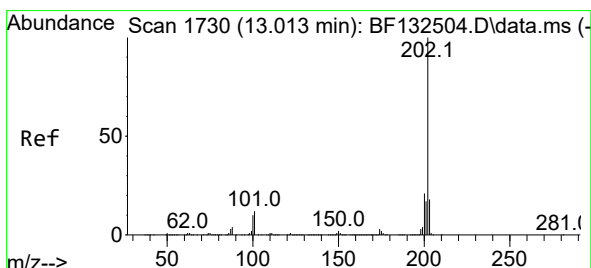
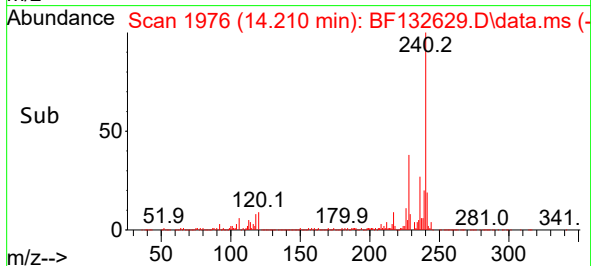
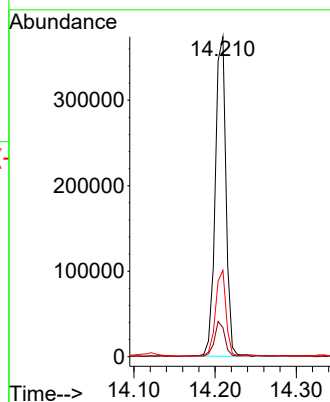
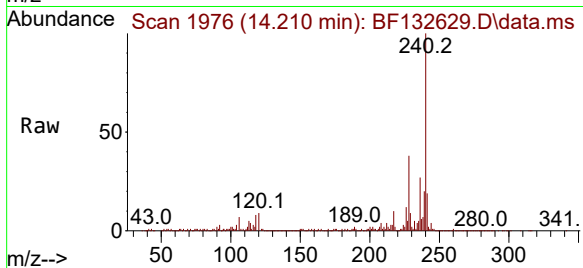
Tgt Ion:240 Resp: 343516

Ion Ratio Lower Upper

240 100

120 9.1 7.2 10.8

236 27.0 21.8 32.6



#78

Pyrene

Concen: 52.599 ng

RT: 13.004 min Scan# 1771

Delta R.T. 0.003 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

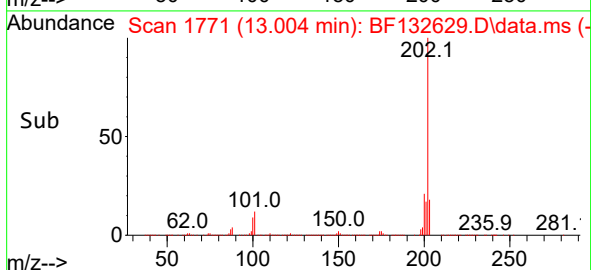
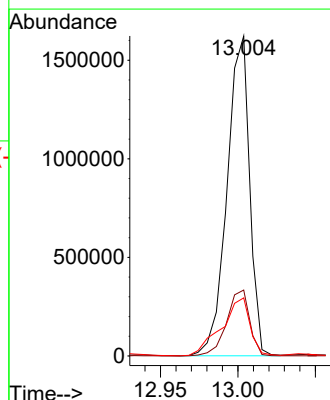
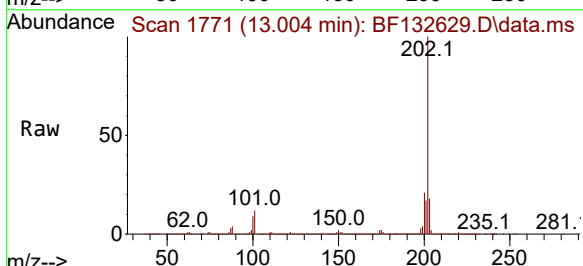
Tgt Ion:202 Resp: 1642741

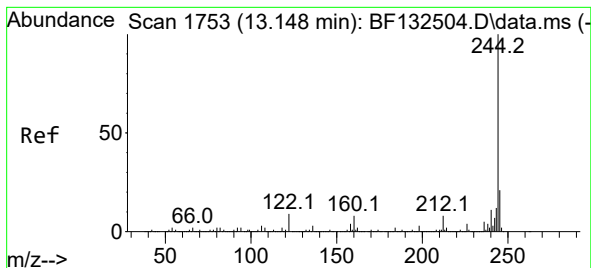
Ion Ratio Lower Upper

202 100

200 20.6 17.1 25.7

203 18.2 14.6 21.8





#79

Terphenyl-d14

Concen: 43.085 ng

RT: 13.133 min Scan# 11

Delta R.T. -0.009 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

CE-45-030123

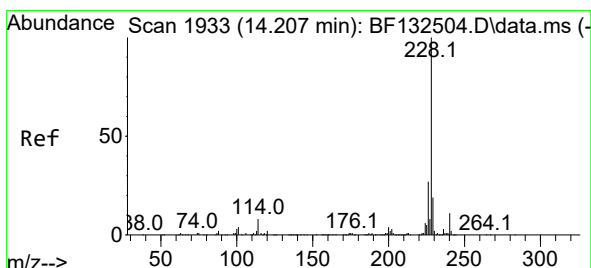
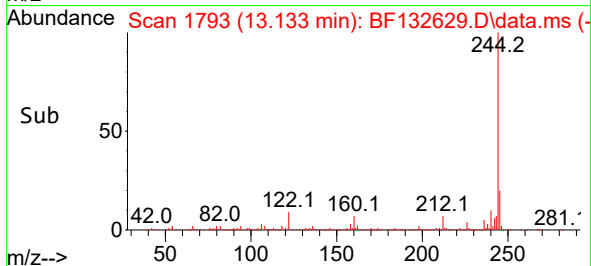
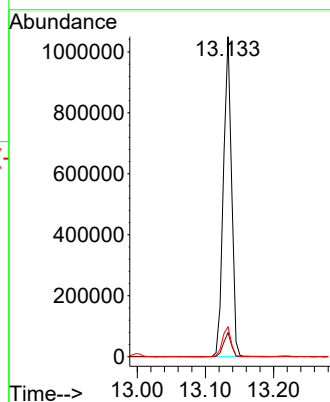
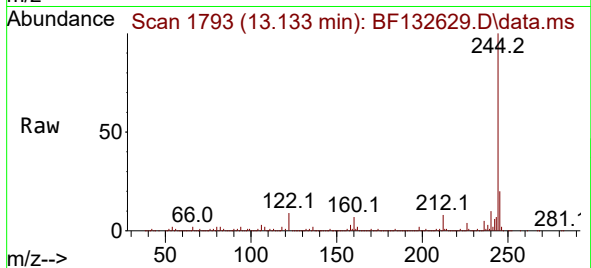
Tgt Ion:244 Resp: 875374

Ion Ratio Lower Upper

244 100

212 7.5 6.5 9.7

122 9.3 7.5 11.3



#81

Benzo(a)anthracene

Concen: 39.261 ng

RT: 14.198 min Scan# 1974

Delta R.T. 0.003 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

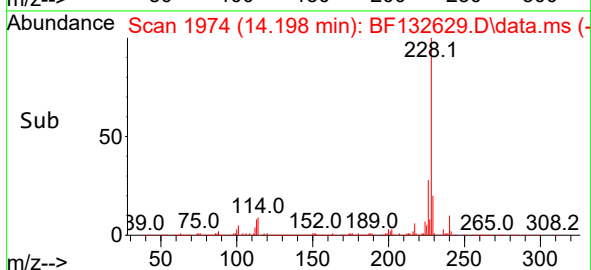
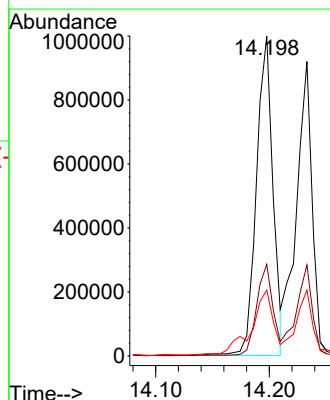
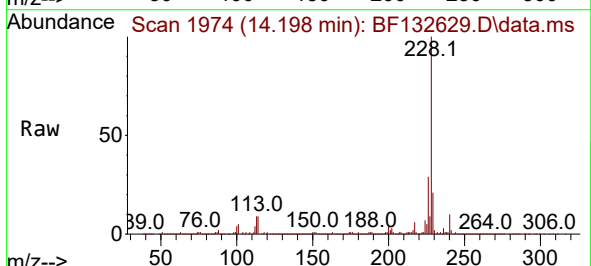
Tgt Ion:228 Resp: 1009107

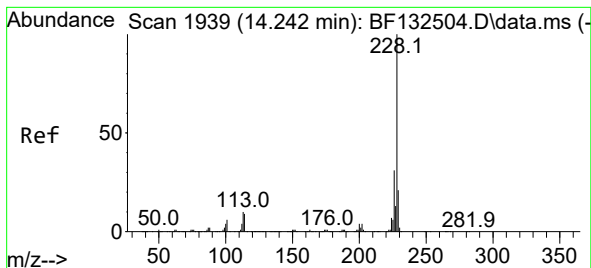
Ion Ratio Lower Upper

228 100

226 28.7 21.7 32.5

229 20.5 15.4 23.2





#83

Chrysene

Concen: 36.938 ng

RT: 14.233 min Scan# 1939

Delta R.T. -0.003 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

CE-45-030123

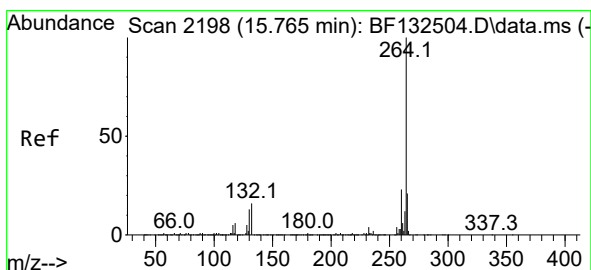
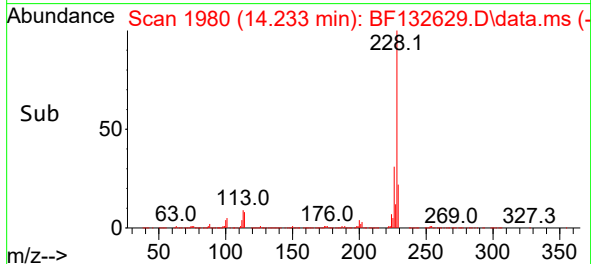
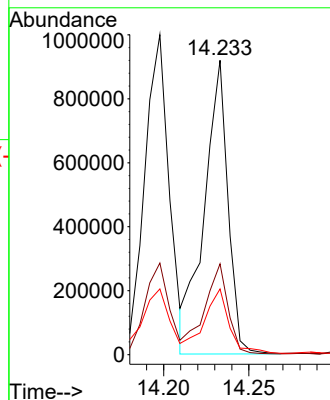
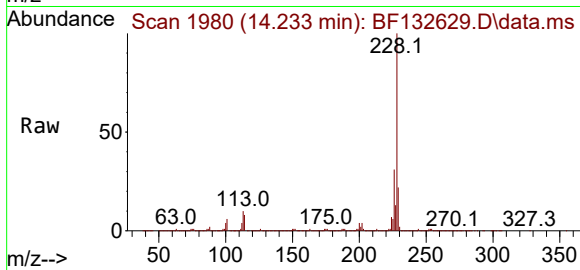
Tgt Ion:228 Resp: 887814

Ion Ratio Lower Upper

228 100

226 30.9 25.0 37.6

229 22.4 16.4 24.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.762 min Scan# 2240

Delta R.T. 0.009 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

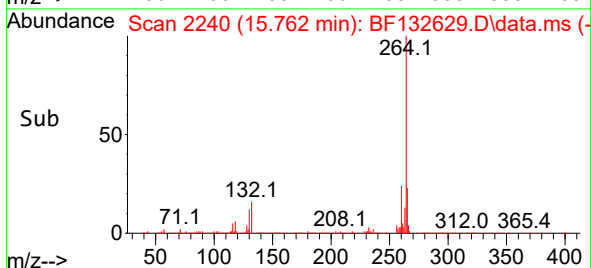
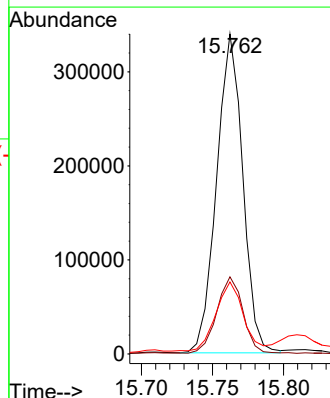
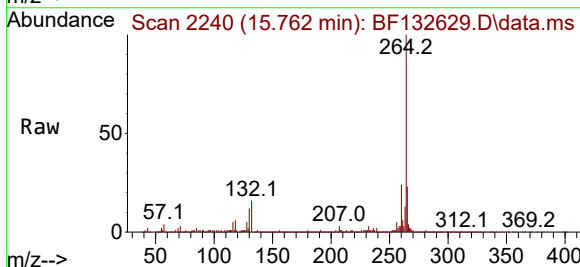
Tgt Ion:264 Resp: 434182

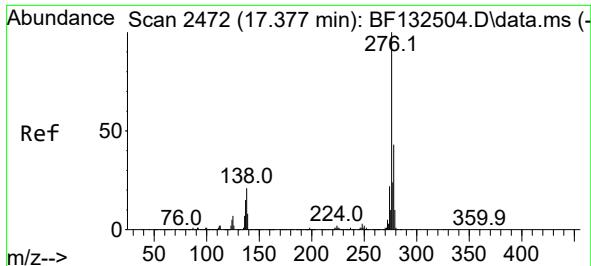
Ion Ratio Lower Upper

264 100

260 24.1 18.8 28.2

265 22.5 17.1 25.7

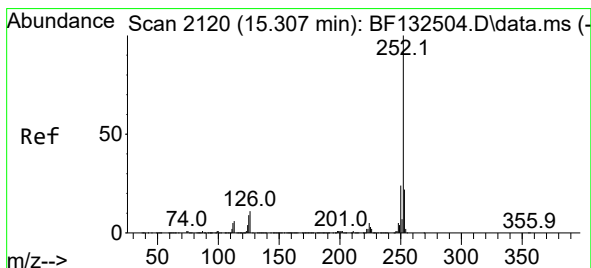
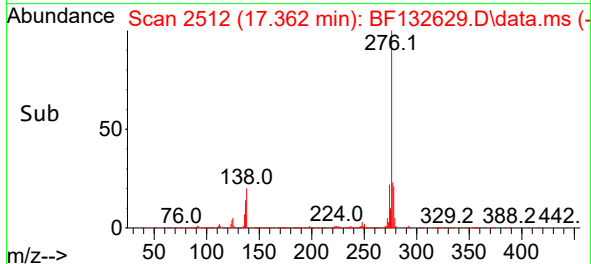
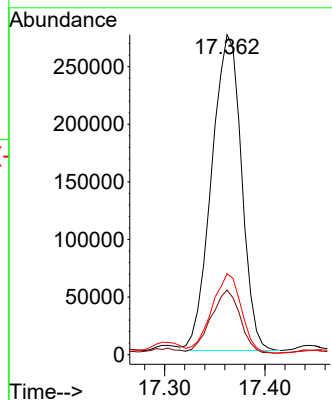
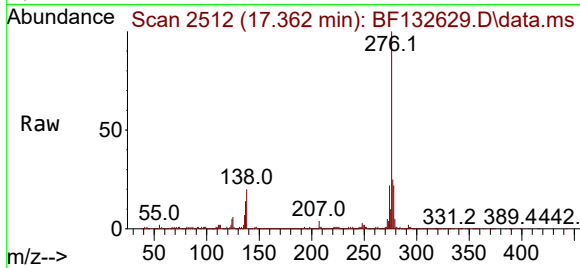




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 19.972 ng  
RT: 17.362 min Scan# 2162  
Delta R.T. 0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

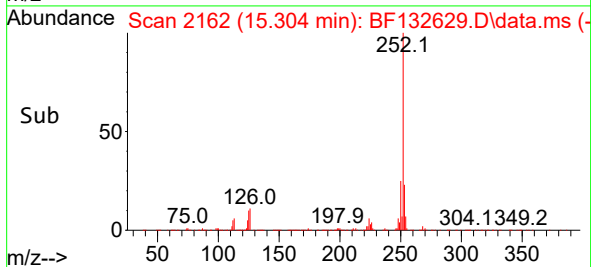
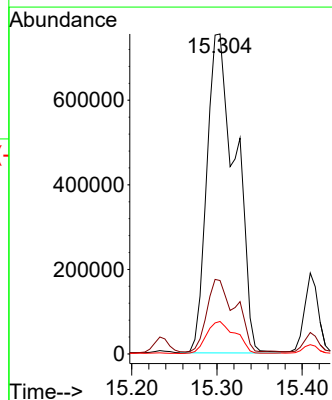
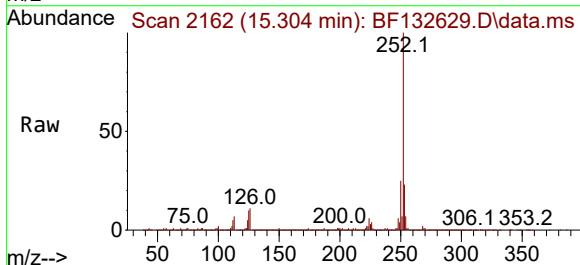
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

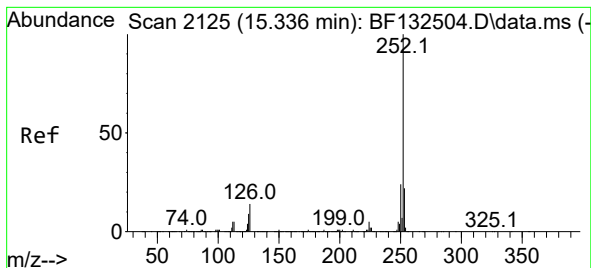
Tgt Ion:276 Resp: 568208  
Ion Ratio Lower Upper  
276 100  
138 19.4 19.0 28.4  
277 25.0 20.0 30.0



#88  
Benzo(b)fluoranthene  
Concen: 61.051 ng  
RT: 15.304 min Scan# 2162  
Delta R.T. 0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:252 Resp: 1776398  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.4 26.0  
125 10.1 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 62.381 ng

RT: 15.304 min Scan# 21

Delta R.T. -0.021 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

CE-45-030123

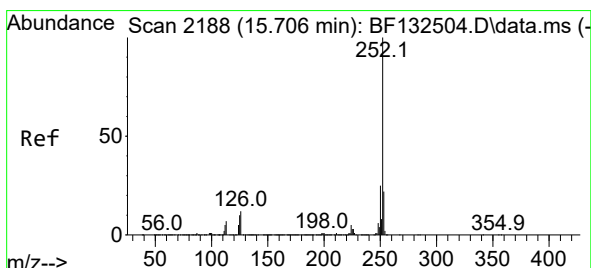
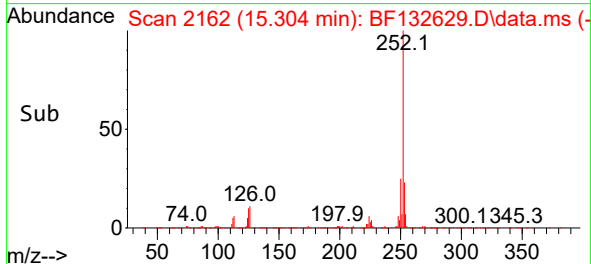
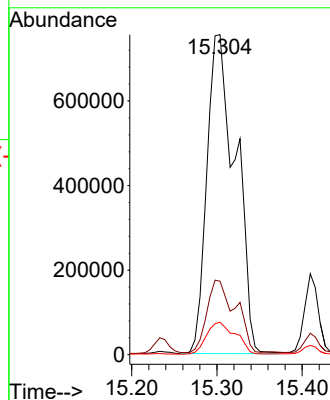
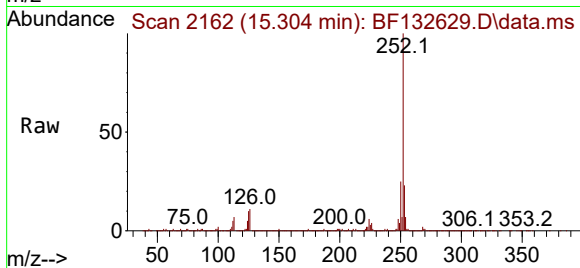
Tgt Ion:252 Resp: 1776398

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 10.1 7.2 10.8



#90

Benzo(a)pyrene

Concen: 37.185 ng

RT: 15.698 min Scan# 2229

Delta R.T. 0.009 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

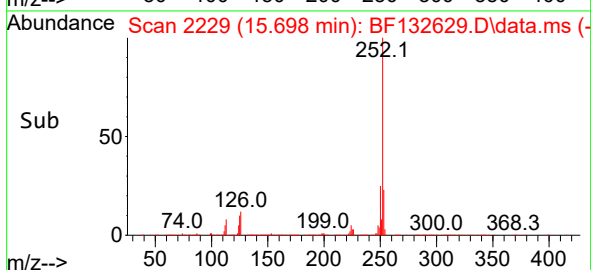
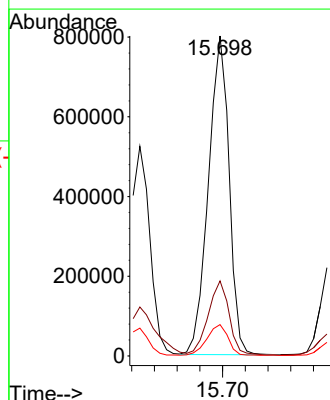
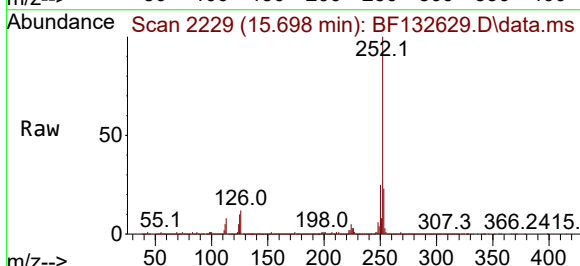
Tgt Ion:252 Resp: 1012635

Ion Ratio Lower Upper

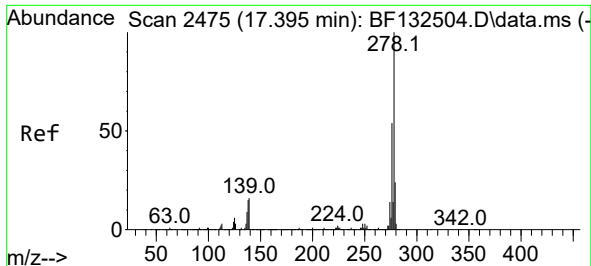
252 100

253 23.5 17.2 25.8

125 9.8 8.0 12.0



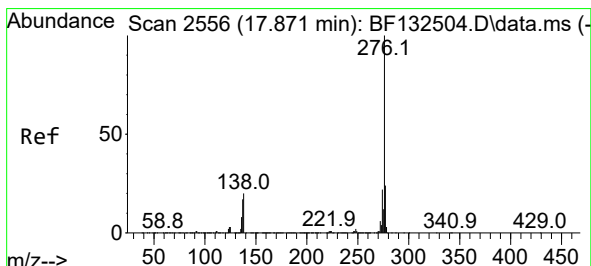
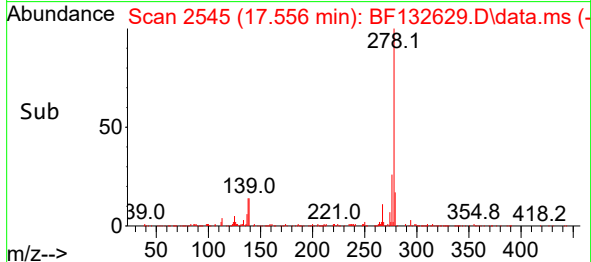
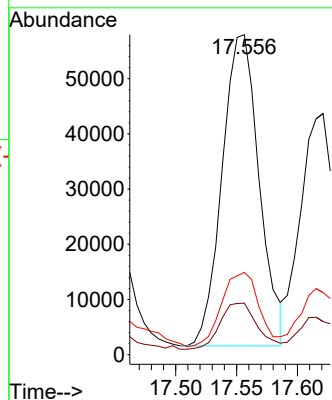
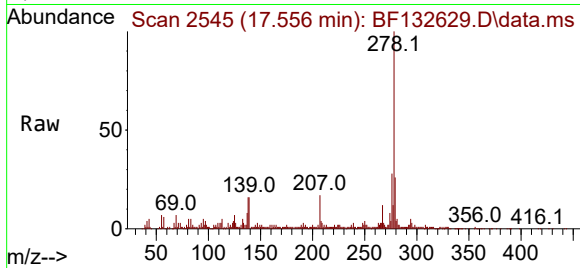




#91  
Dibenzo(a,h)anthracene  
Concen: 5.154 ng  
RT: 17.556 min Scan# 21  
Delta R.T. 0.179 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

Tgt Ion:278 Resp: 119468  
Ion Ratio Lower Upper  
278 100  
139 16.1 13.0 19.4  
279 25.7 19.0 28.4



#92  
Benzo(g,h,i)perylene  
Concen: 20.334 ng  
RT: 17.850 min Scan# 2595  
Delta R.T. -0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:276 Resp: 507451  
Ion Ratio Lower Upper  
276 100  
277 23.9 18.9 28.3  
138 20.8 16.2 24.4

