

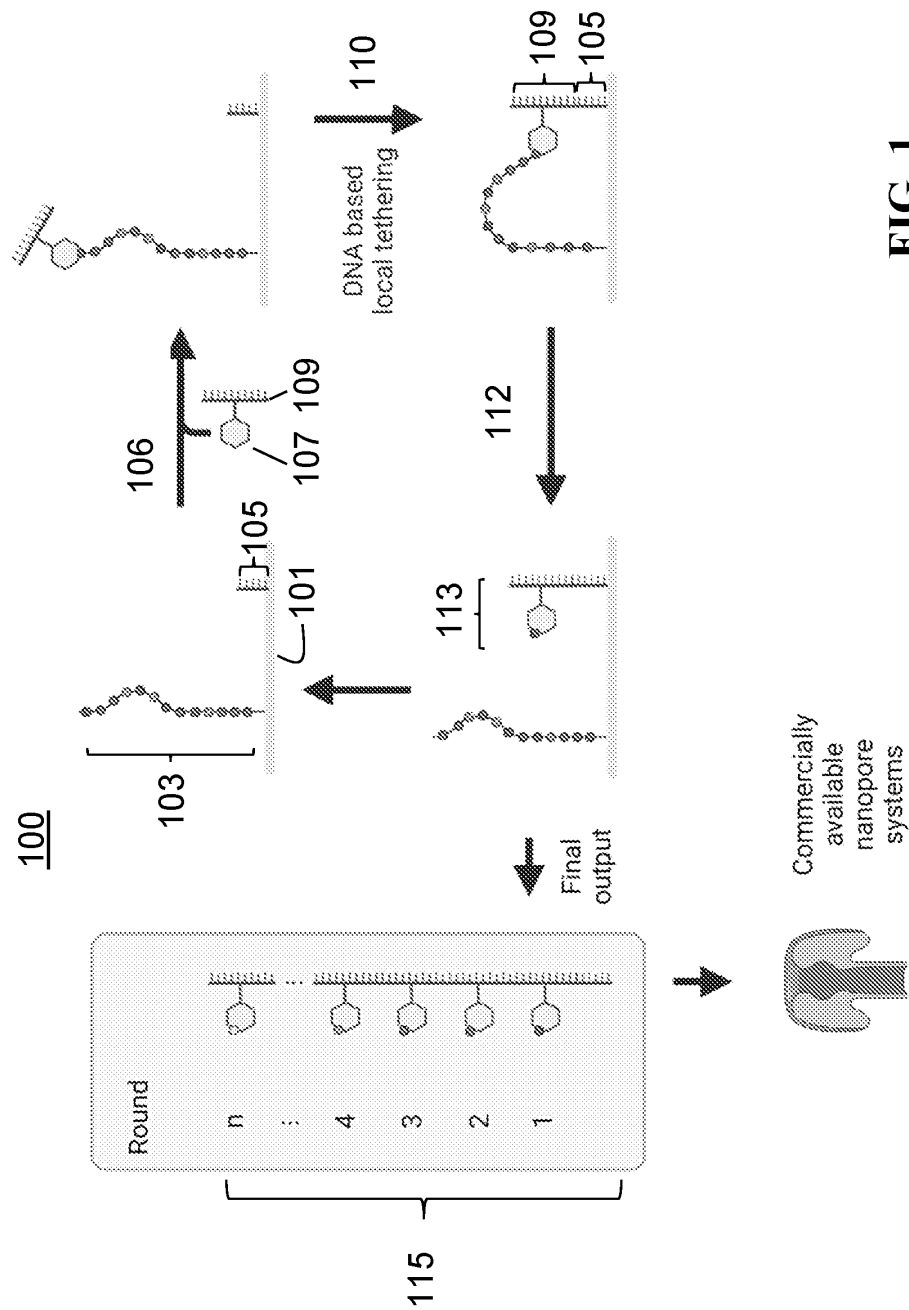
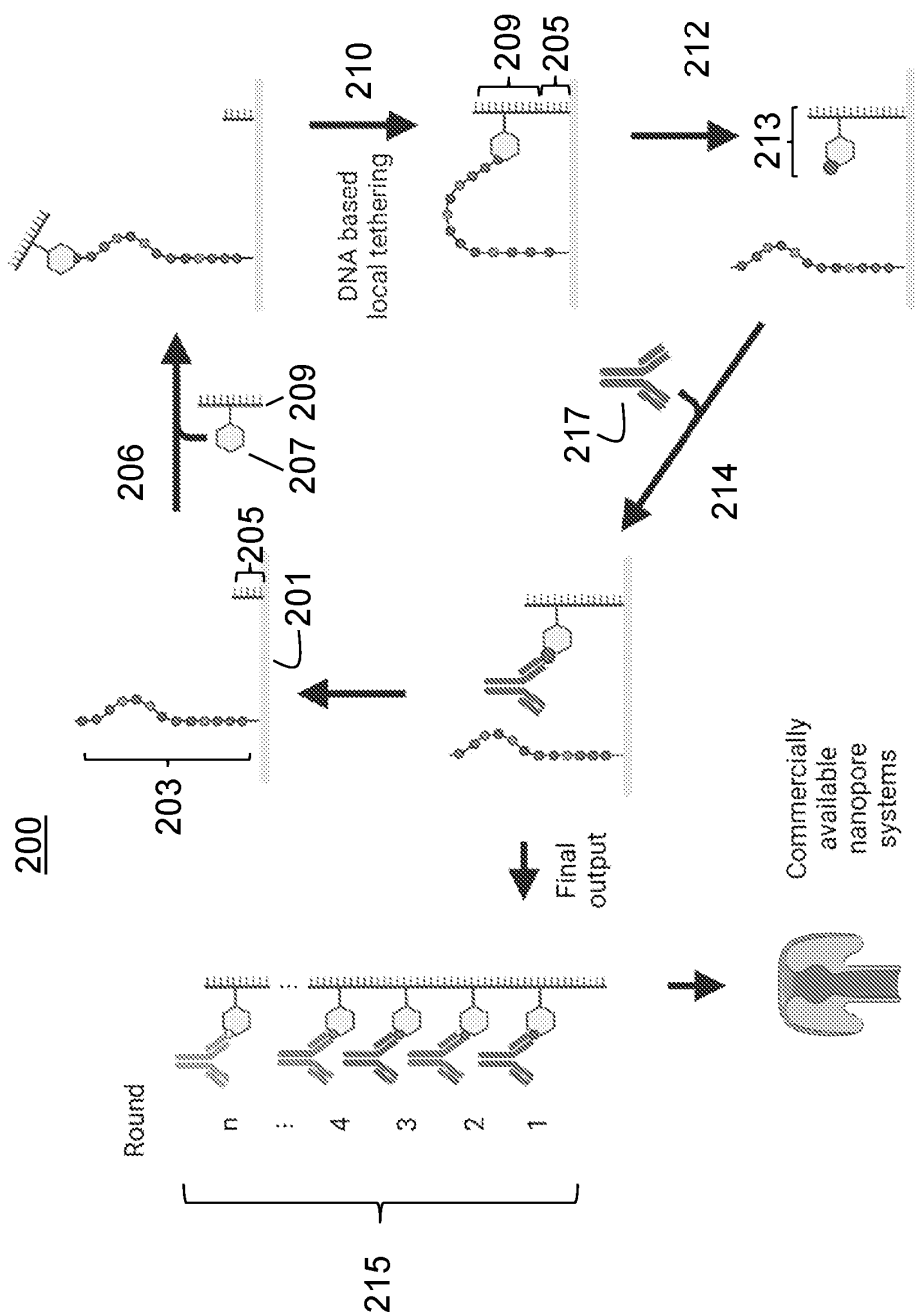


FIG. 1



300

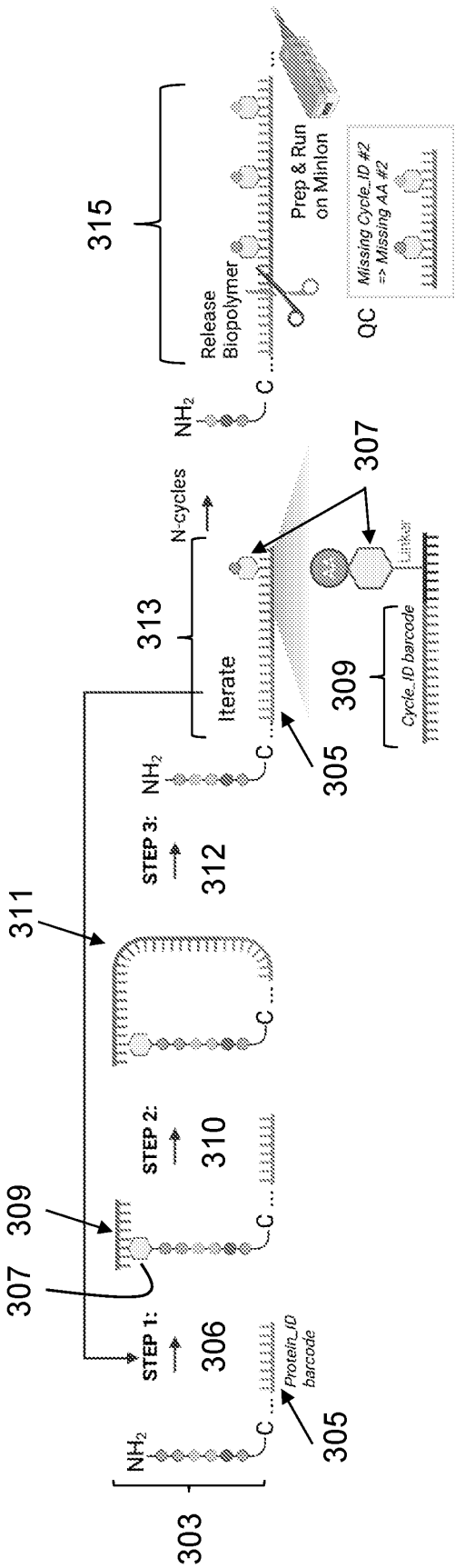
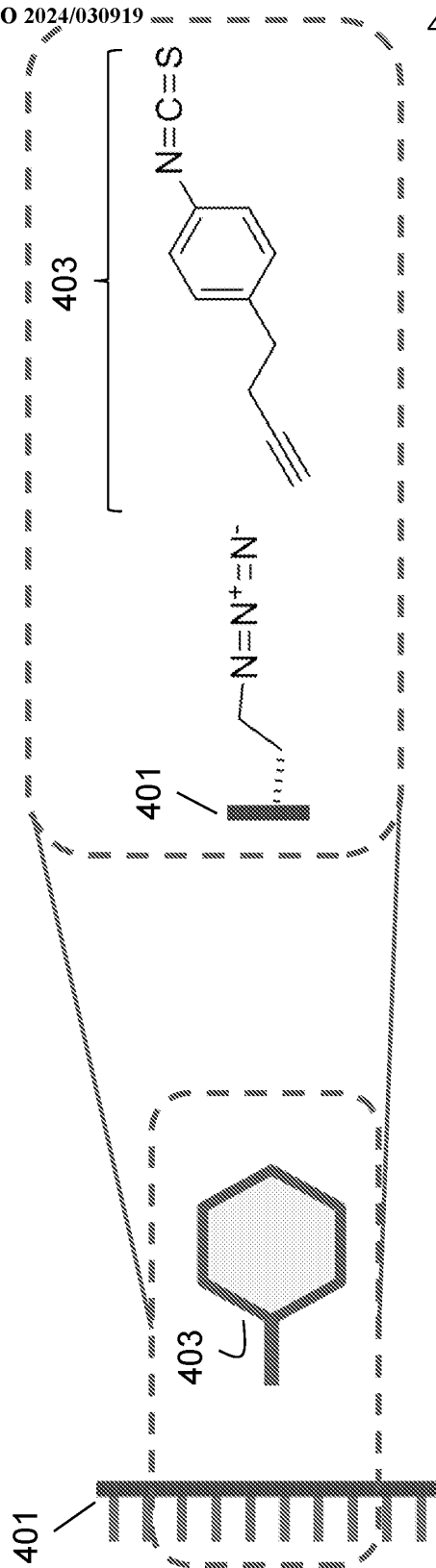


FIG. 3

A)



B)

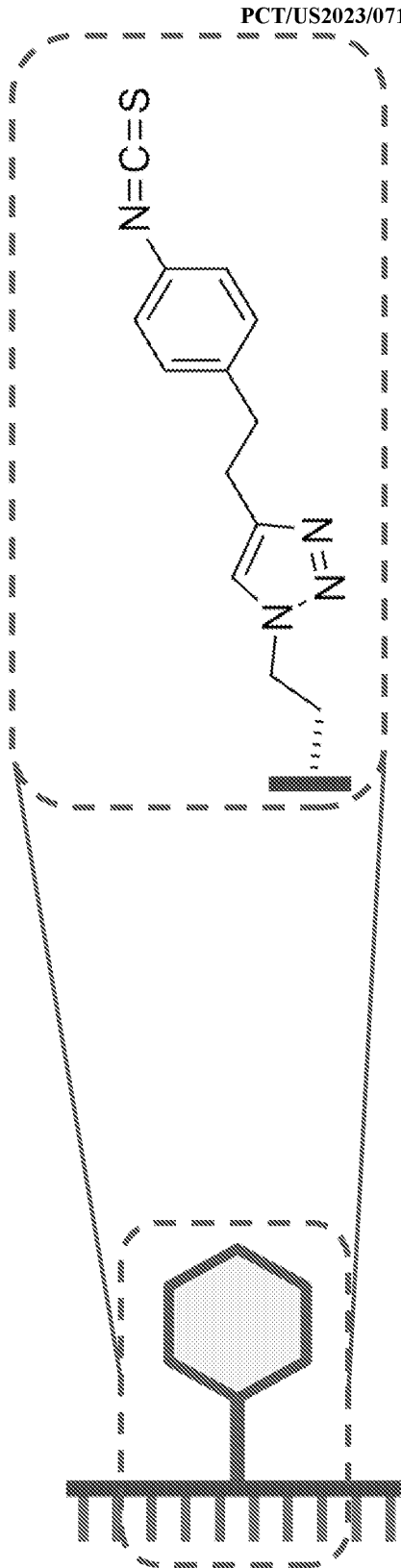


FIG. 4

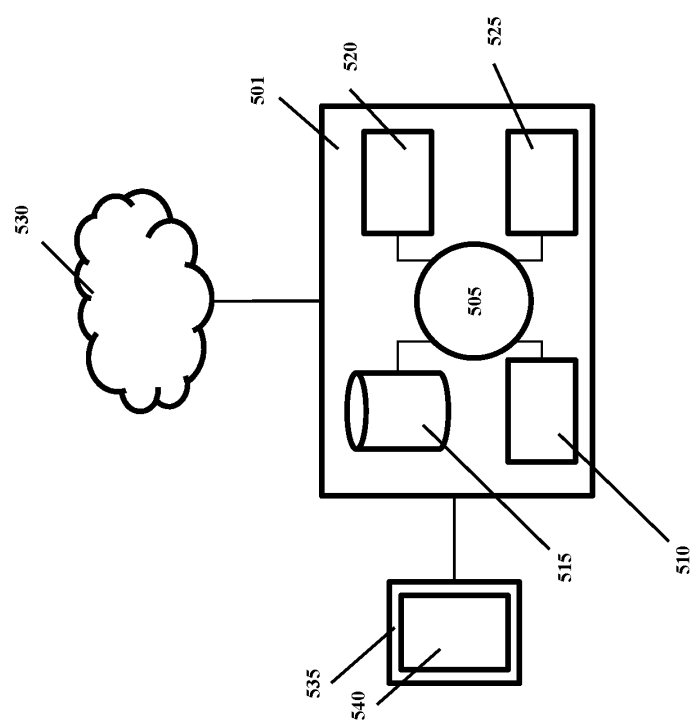


FIG. 5

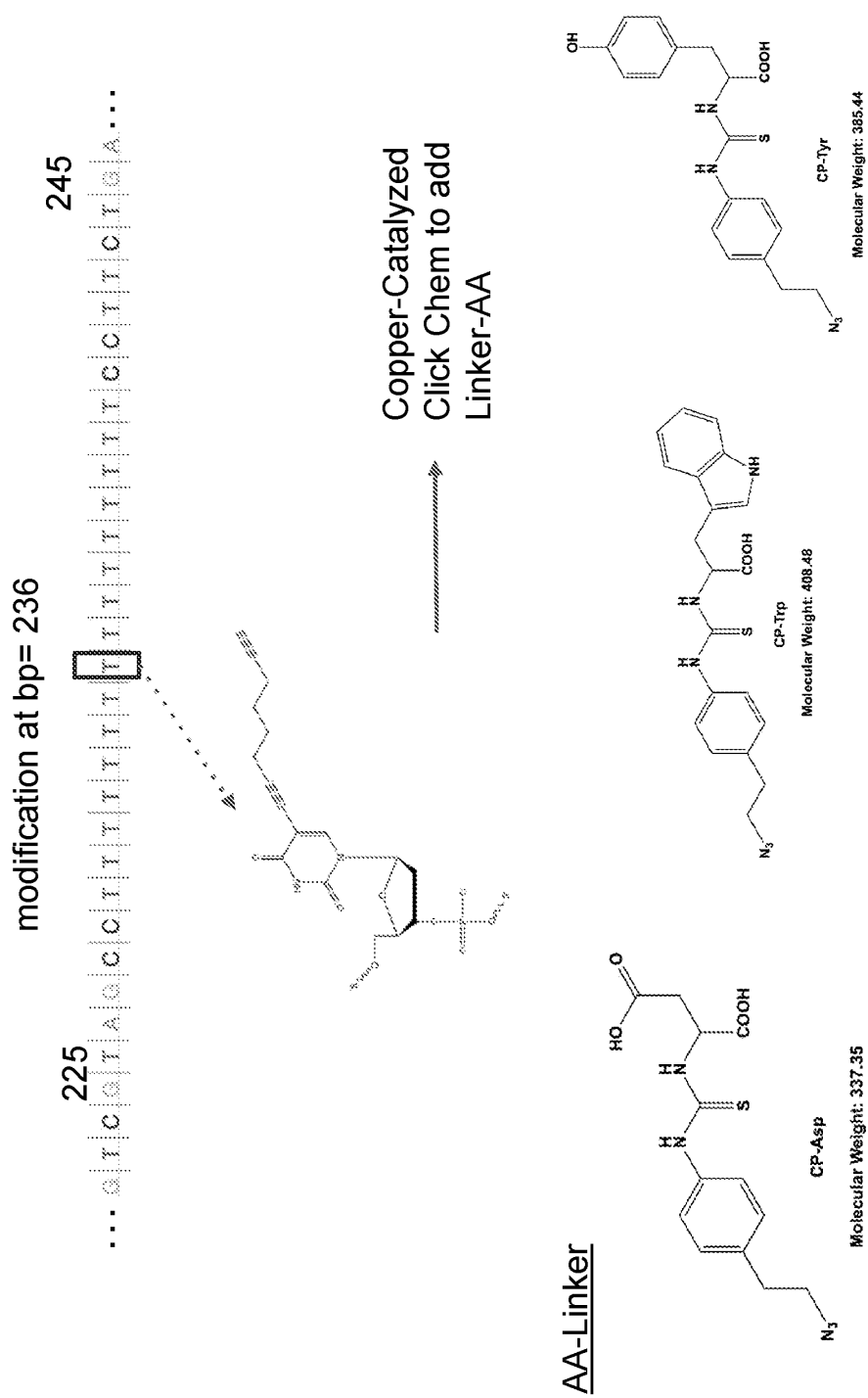


**FIG. 6A**

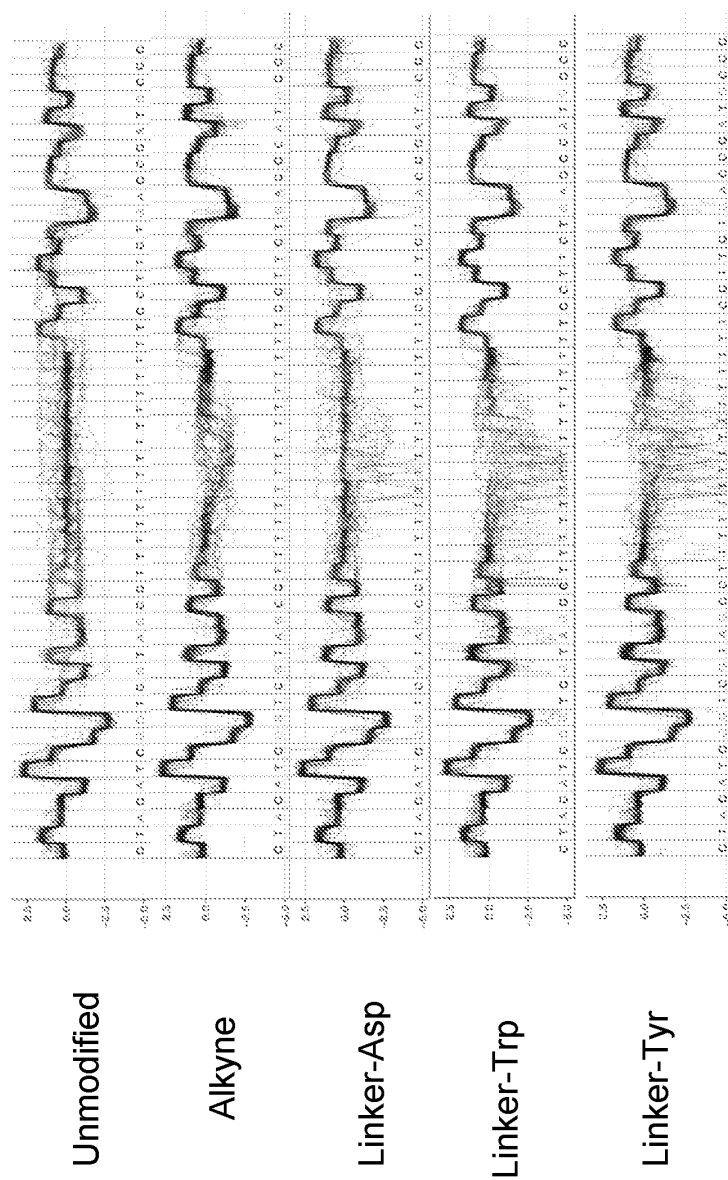


**FIG. 6B**

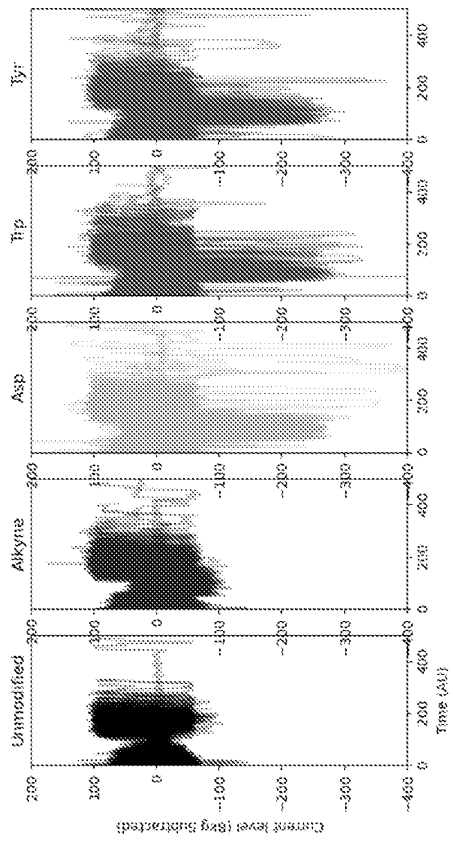
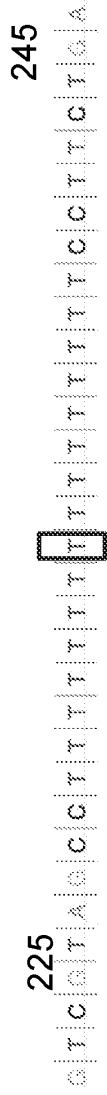
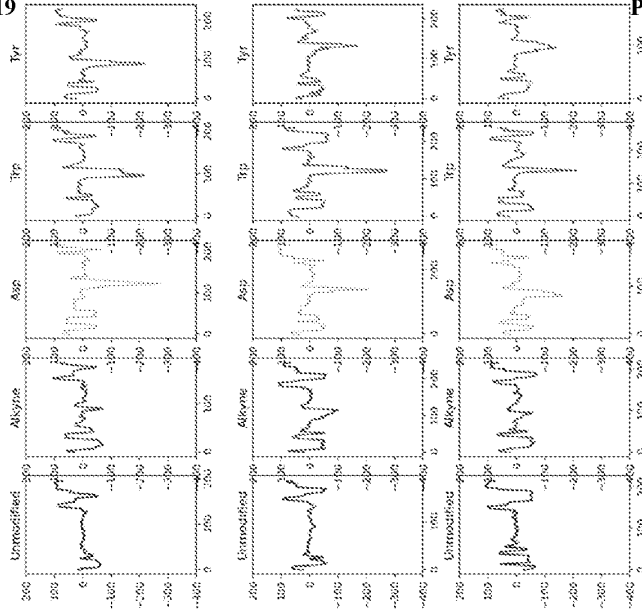


FIG. 6C

225

CYCGTACGCTTTTYYTTCYTCGA

245

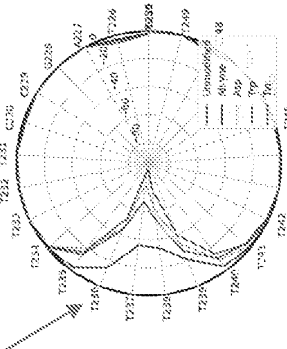
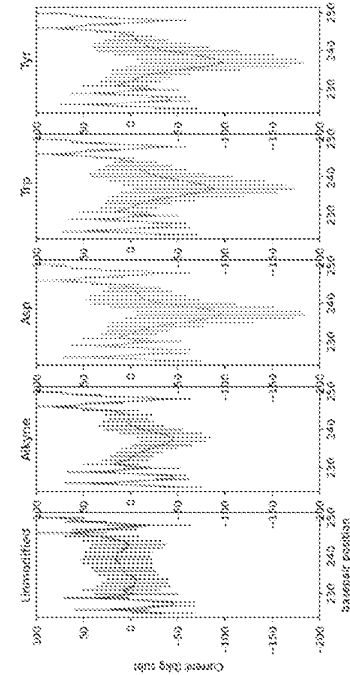
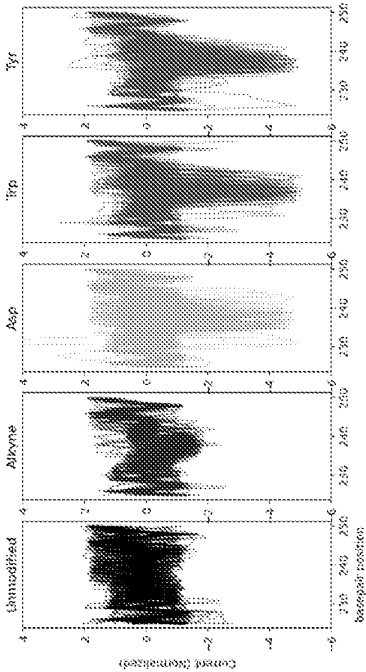


FIG. 6D

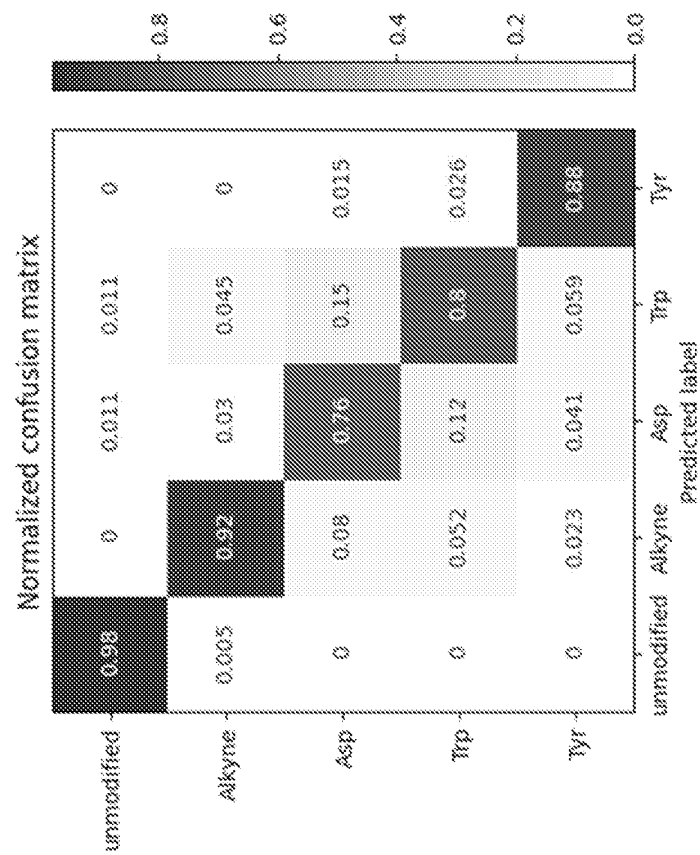


FIG. 6E



**FIG. 7A**

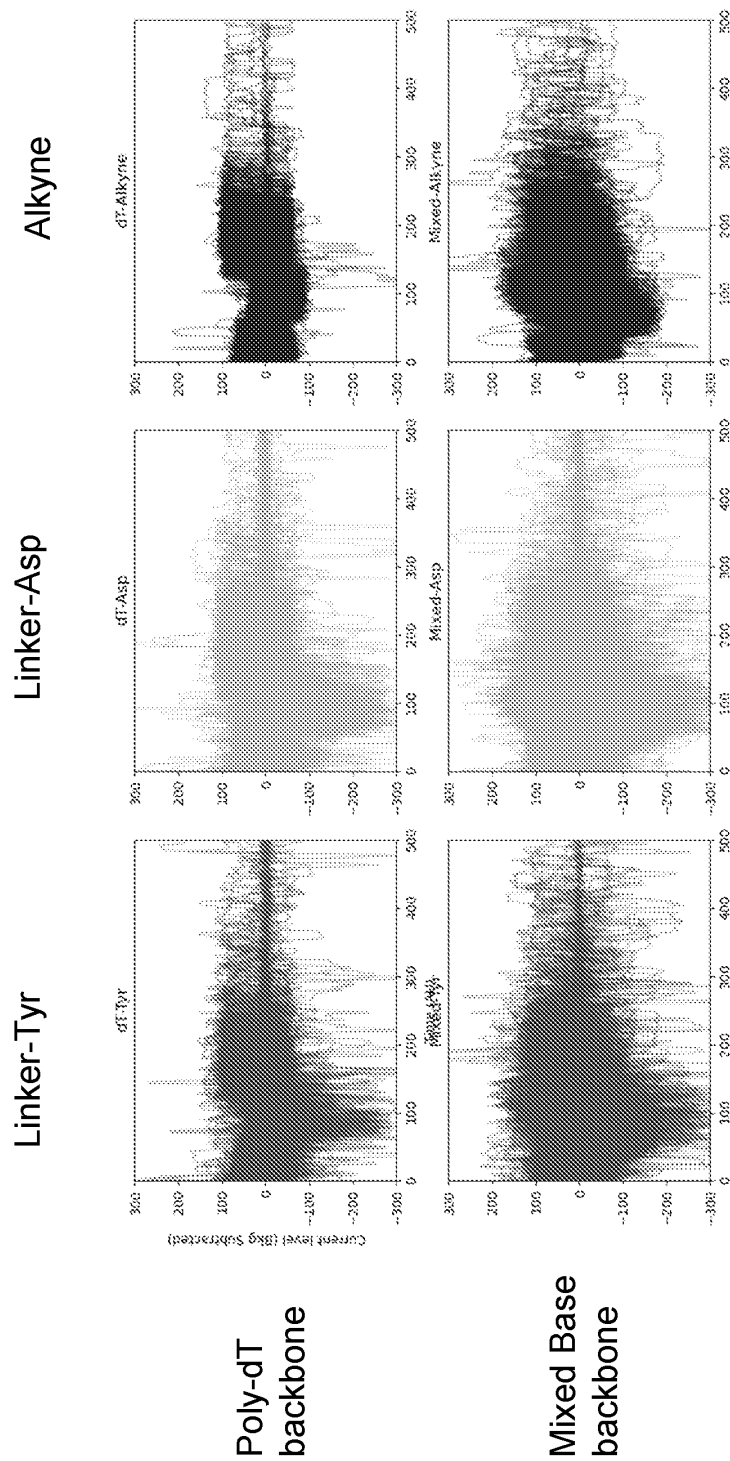


FIG. 7B

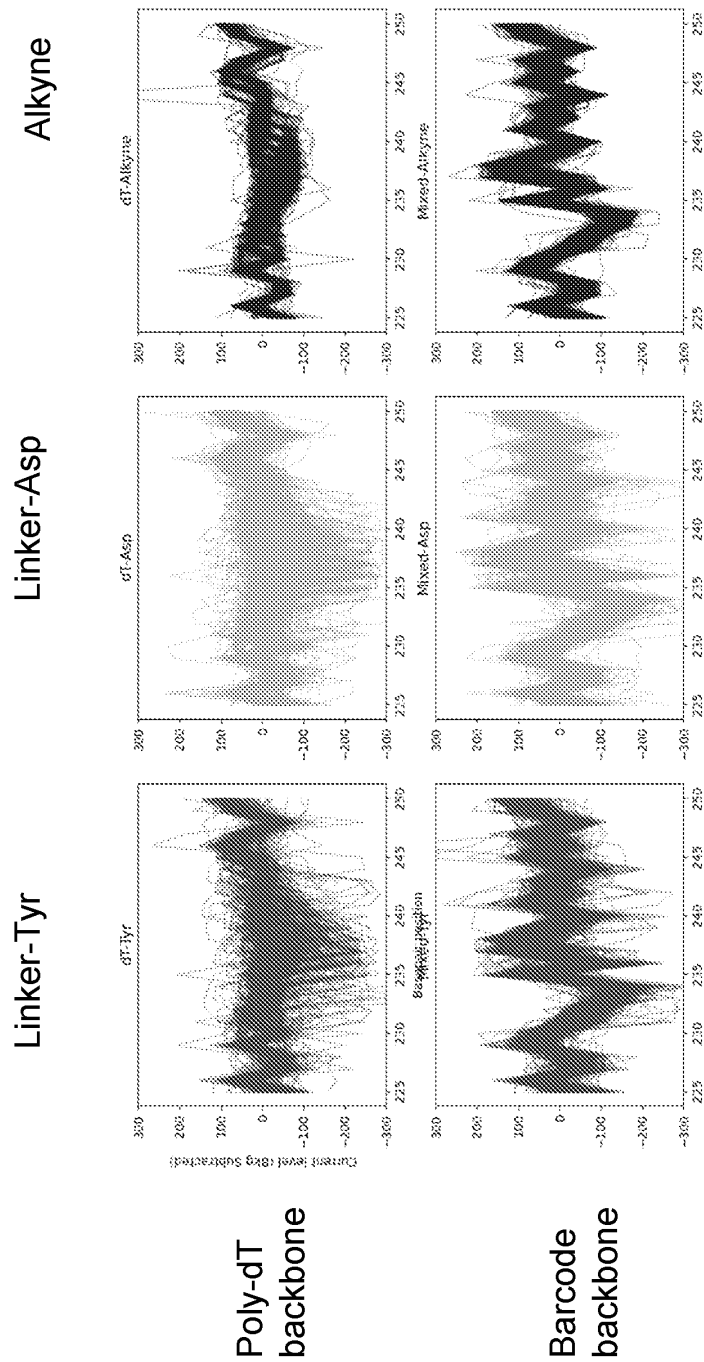
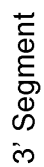


FIG. 7C



## T4 Ligation Assembly

[illegible]

Length= 400bp, modification at 199

**FIG. 8A**

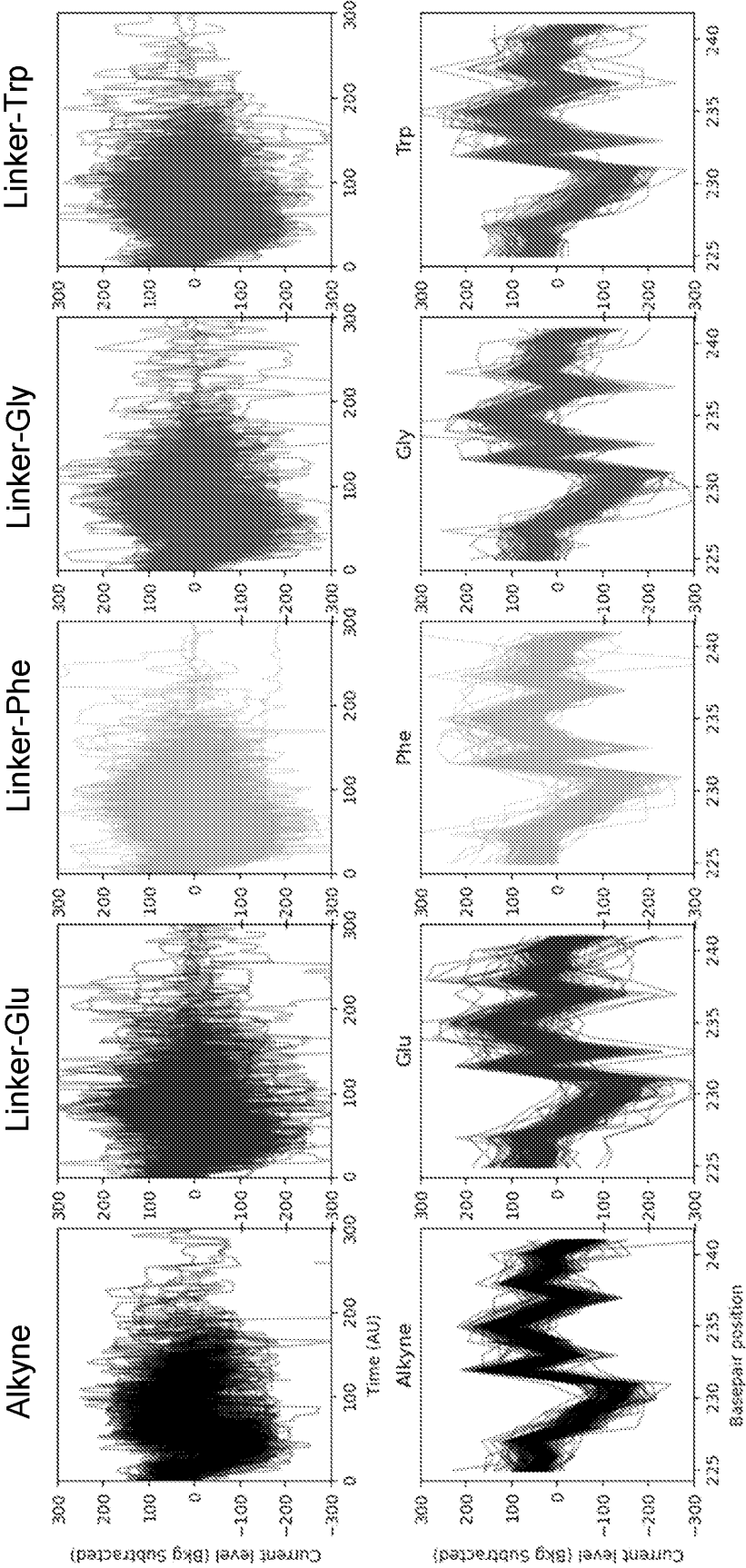


FIG. 8B

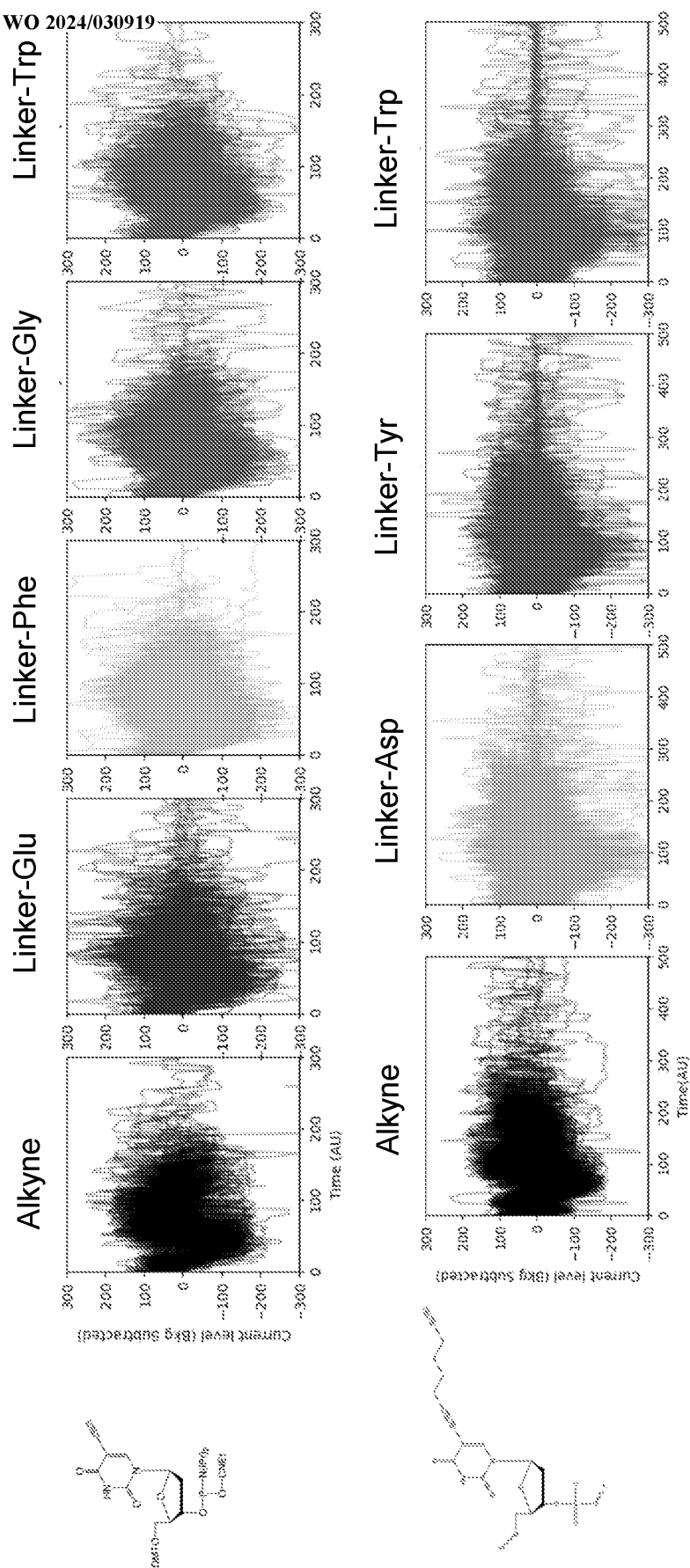


FIG. 8C

<- Not  
HPLC  
purified.  
Conjugation ~  
efficiency ~  
60%

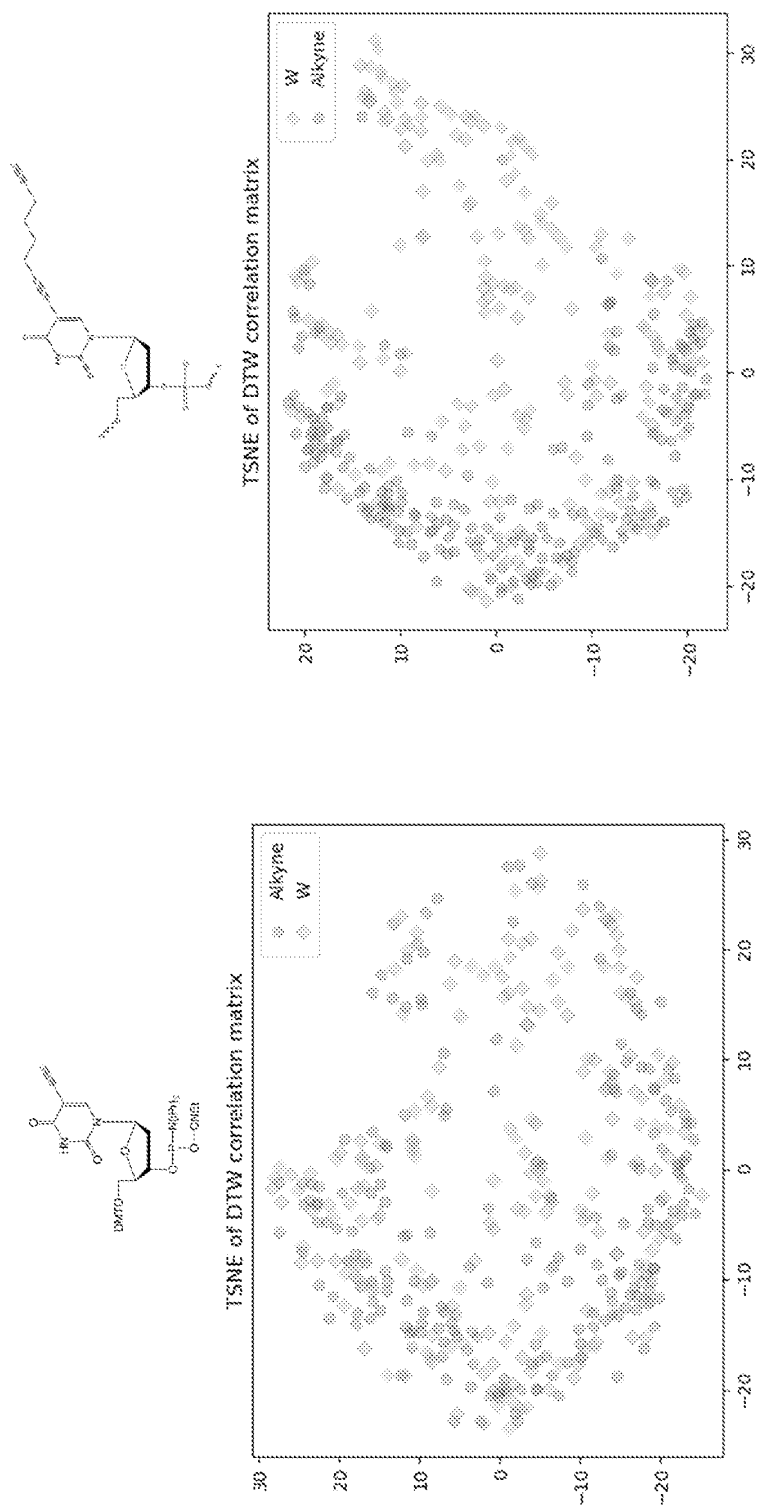


FIG. 8D

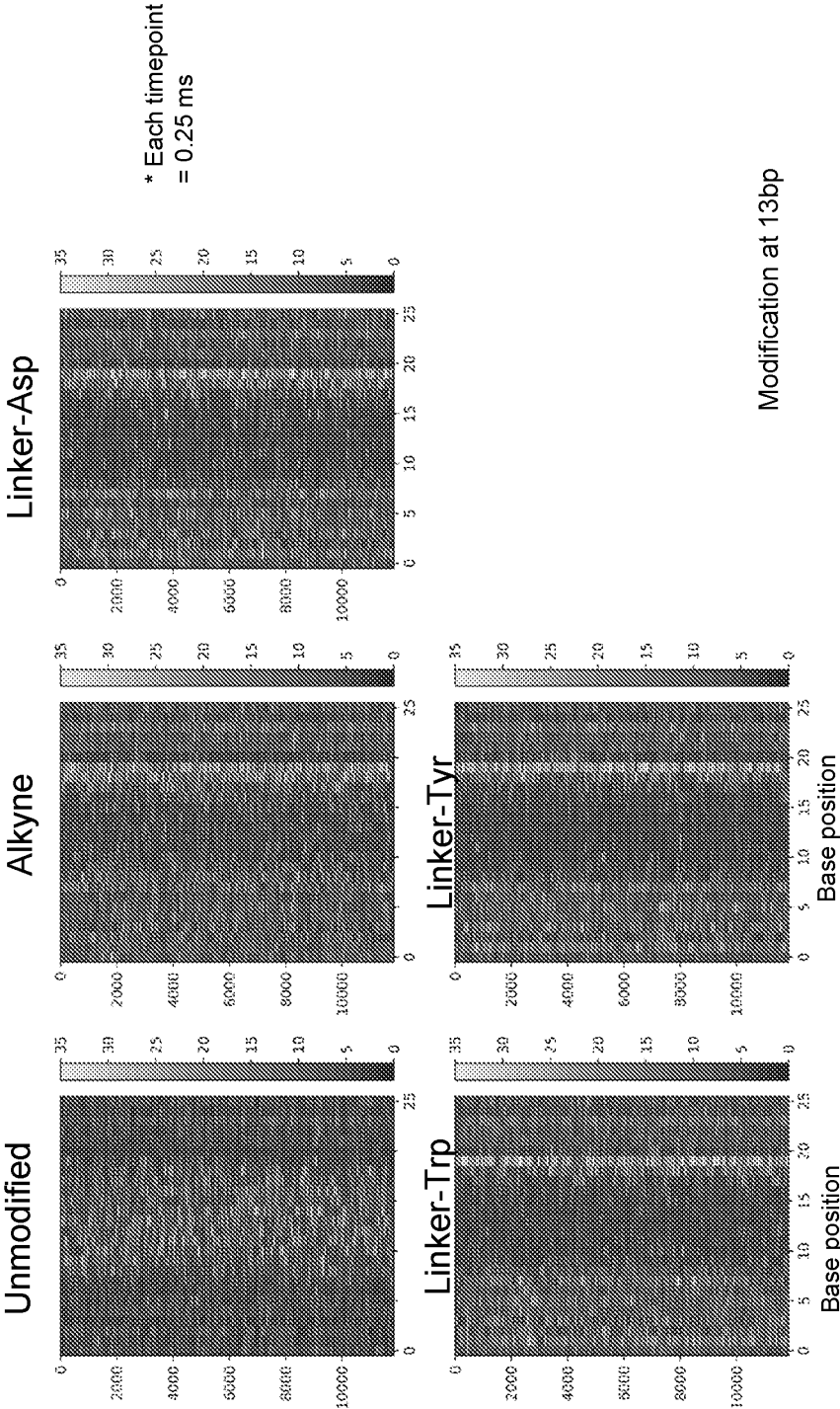


FIG. 9

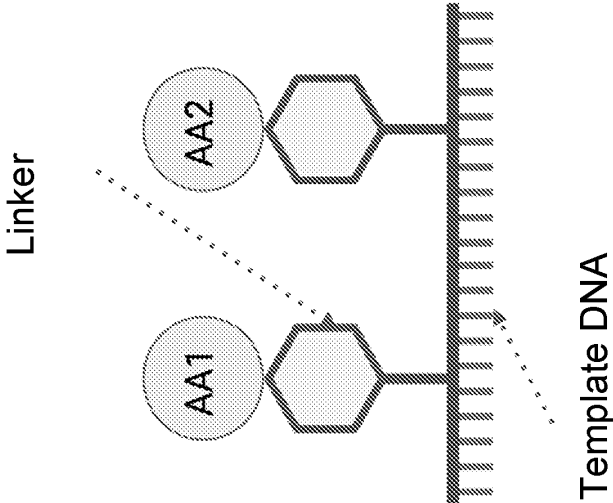


FIG. 10A

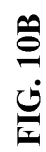


**FIG. 10B**

Samples

| Sample     | Position 1 | Position 2 |
|------------|------------|------------|
| Unmodified | Unmodified | Unmodified |
| Alkyne     | Alkyne     | Alkyne     |
| Asp/Trp    | Asp        | Trp        |
| Asp/Tyr    | Asp        | Tyr        |
| Trp/Tyr    | Trp        | Tyr        |

FIG. 10C

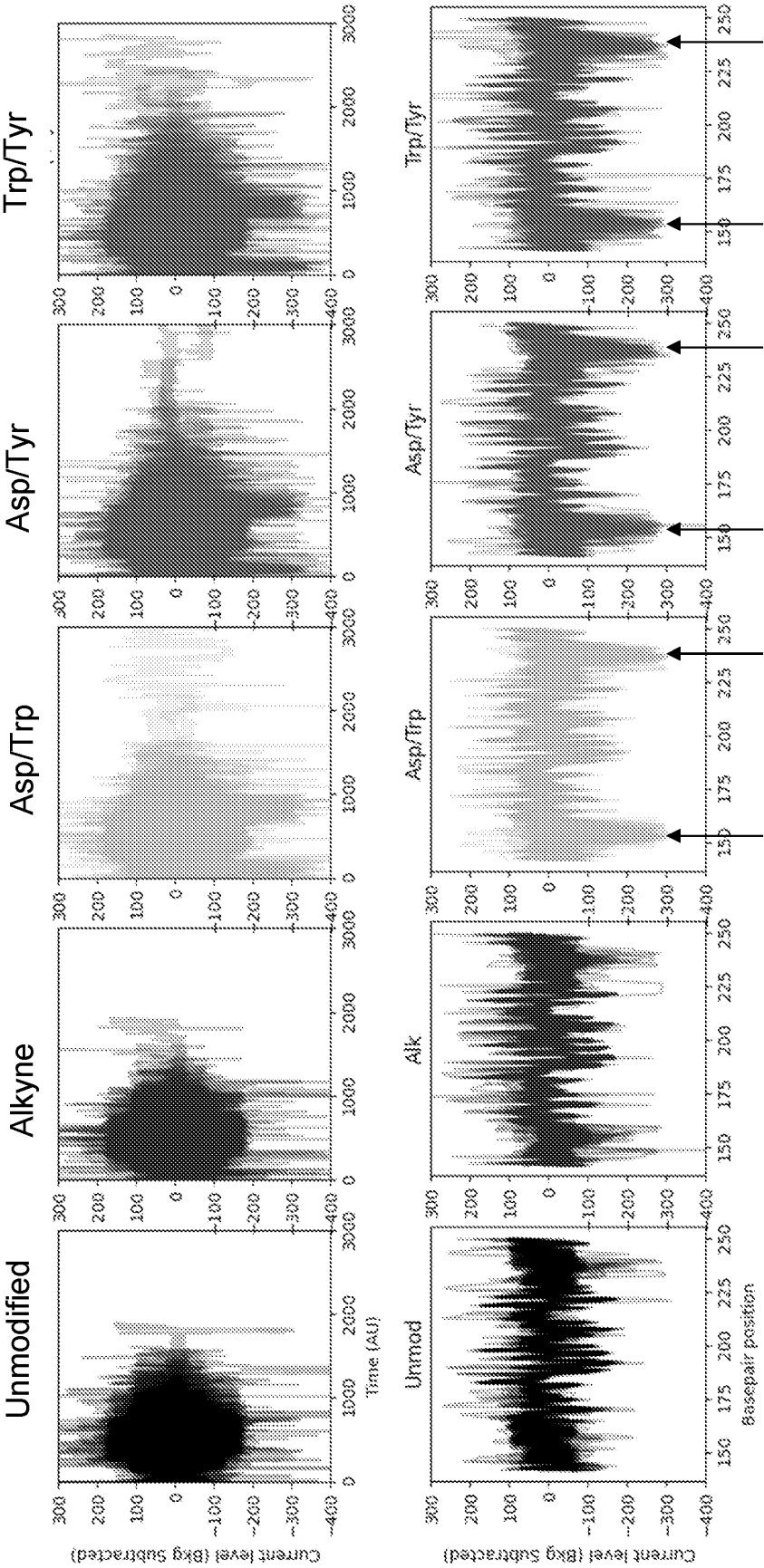


FIG. 10D

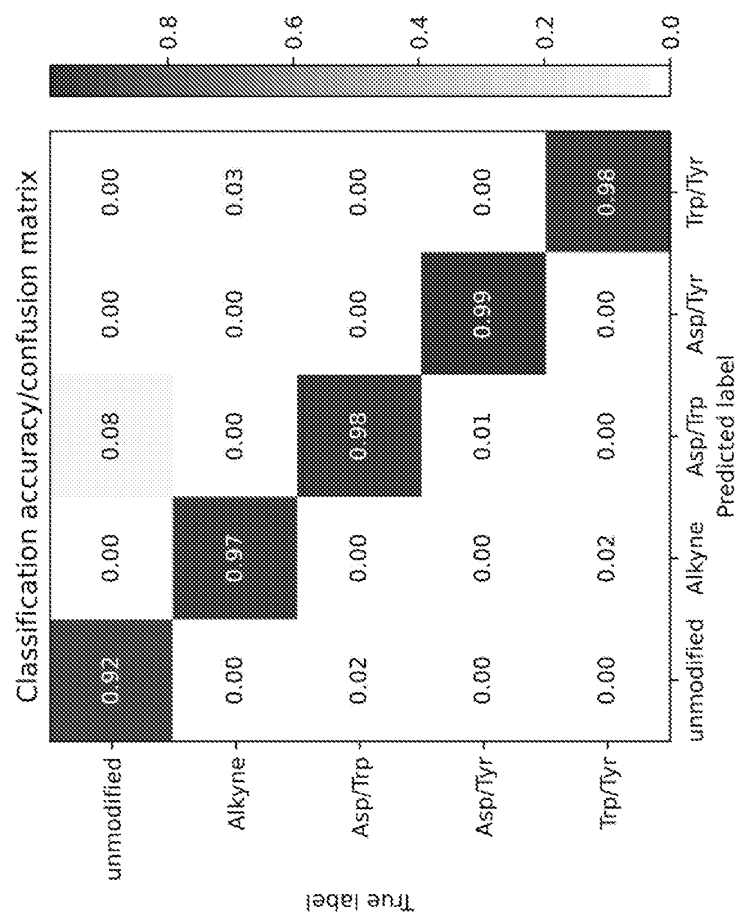
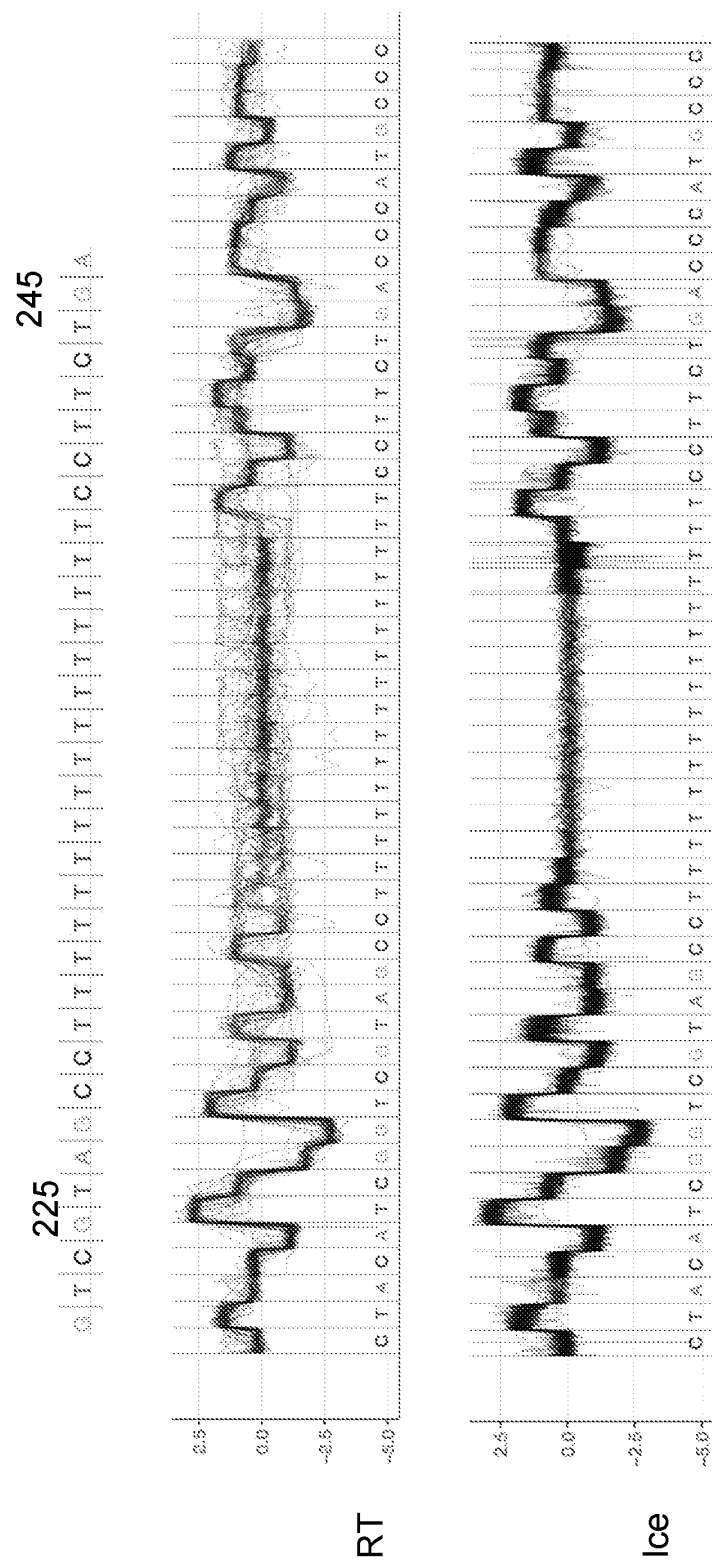


FIG. 10E



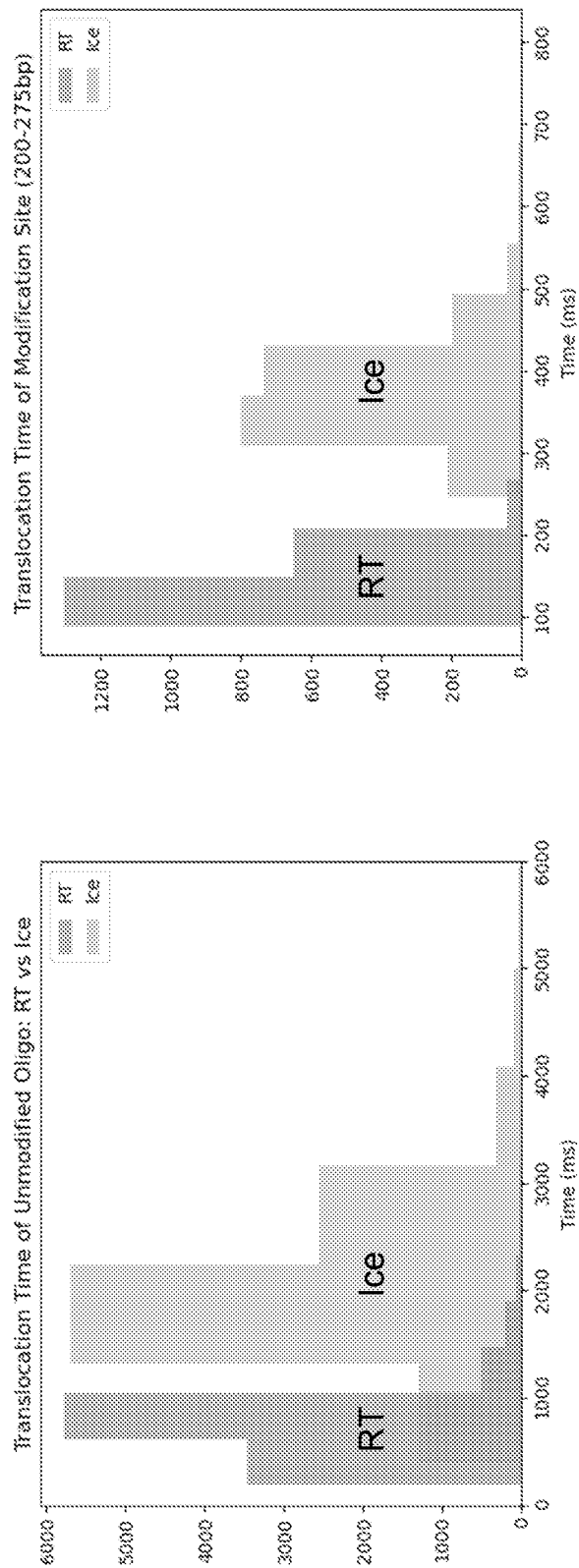


FIG. 11B

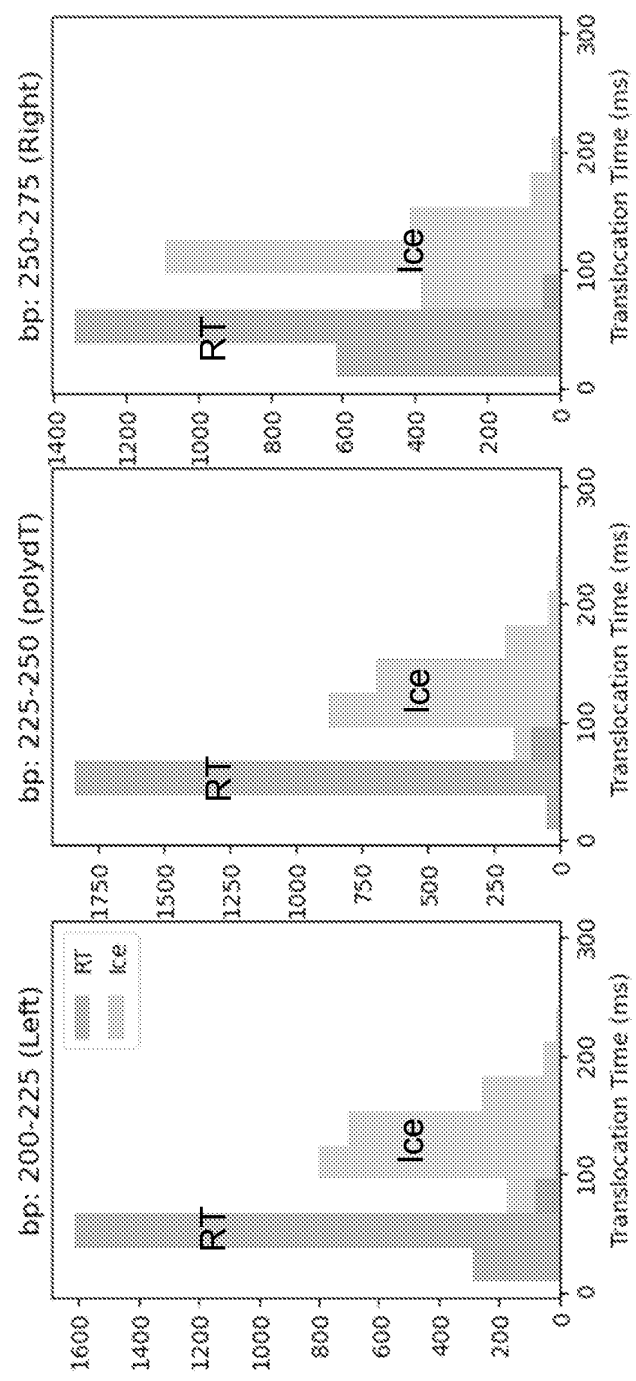


FIG. 11C

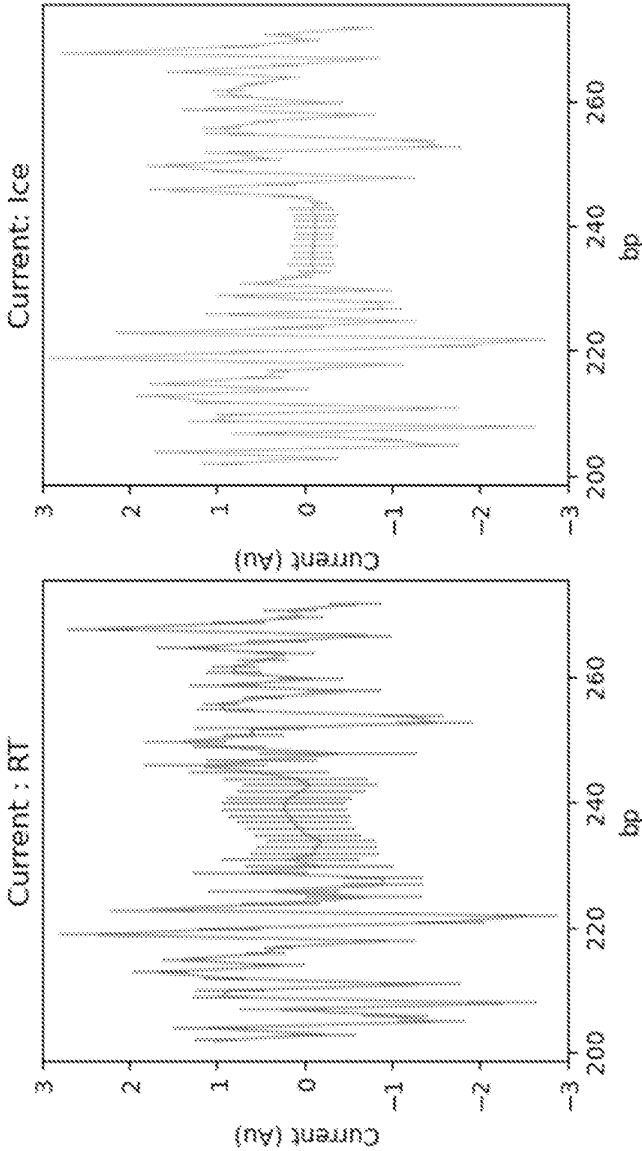


FIG. 11D

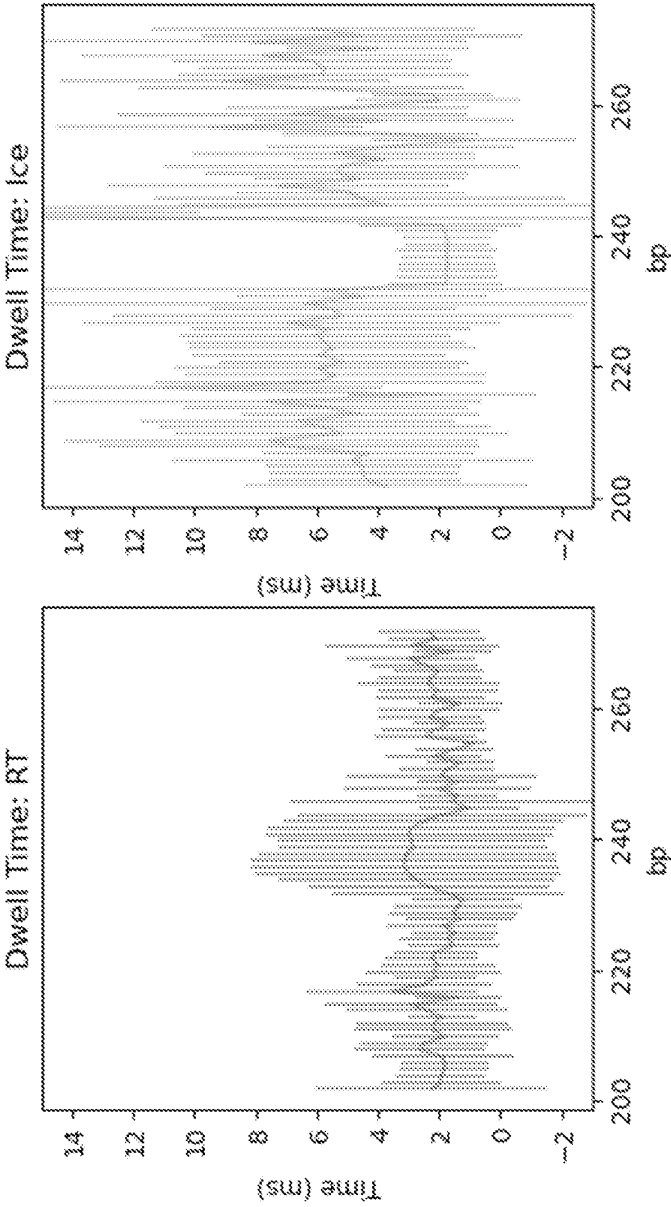


FIG. 11E