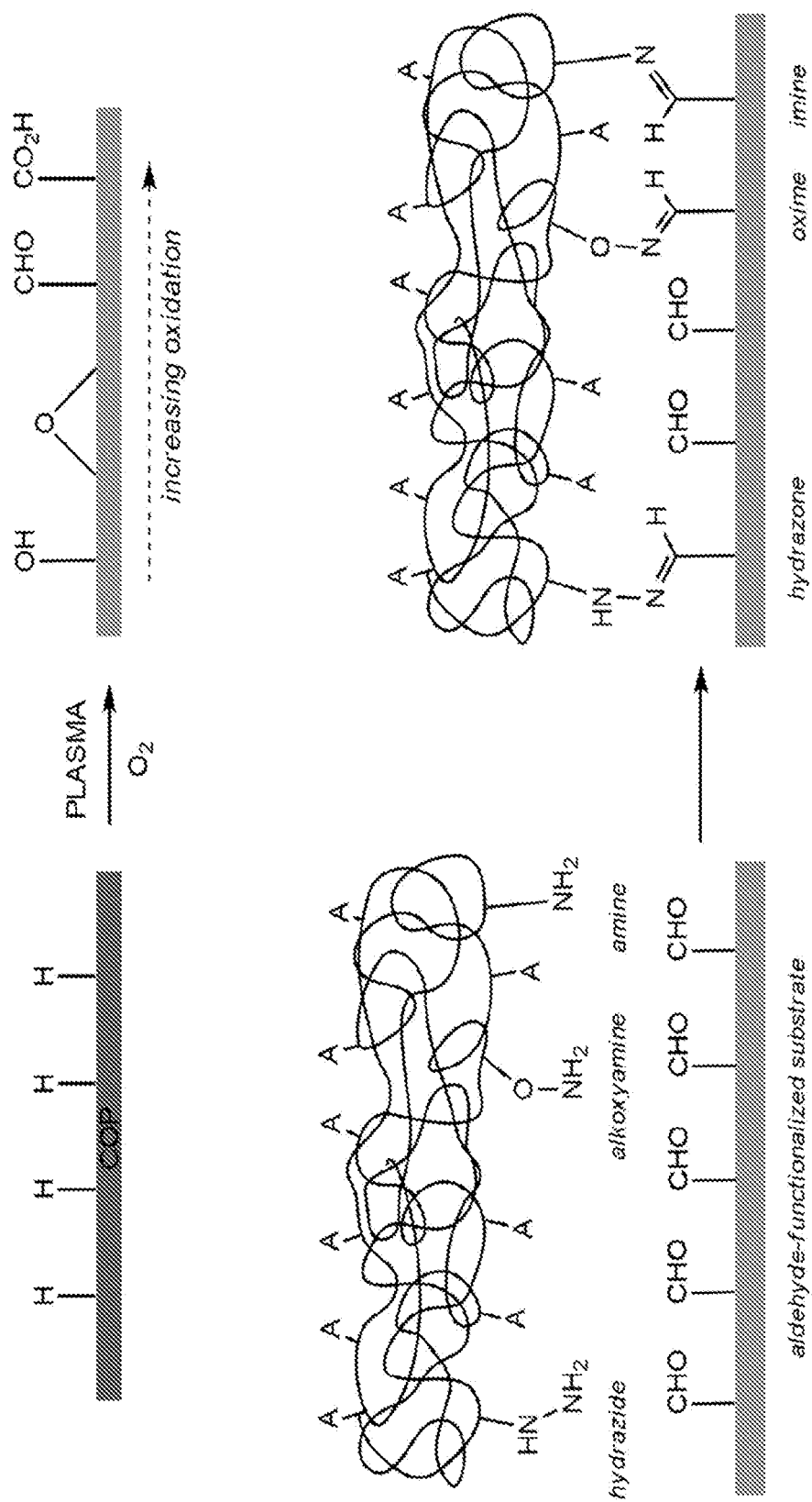


1 / 17



A = orthogonally-reactive group (for subsequent bioconjugation), e.g. azide, alkyne, diene, dienophile

FIG. 1A

2 / 17

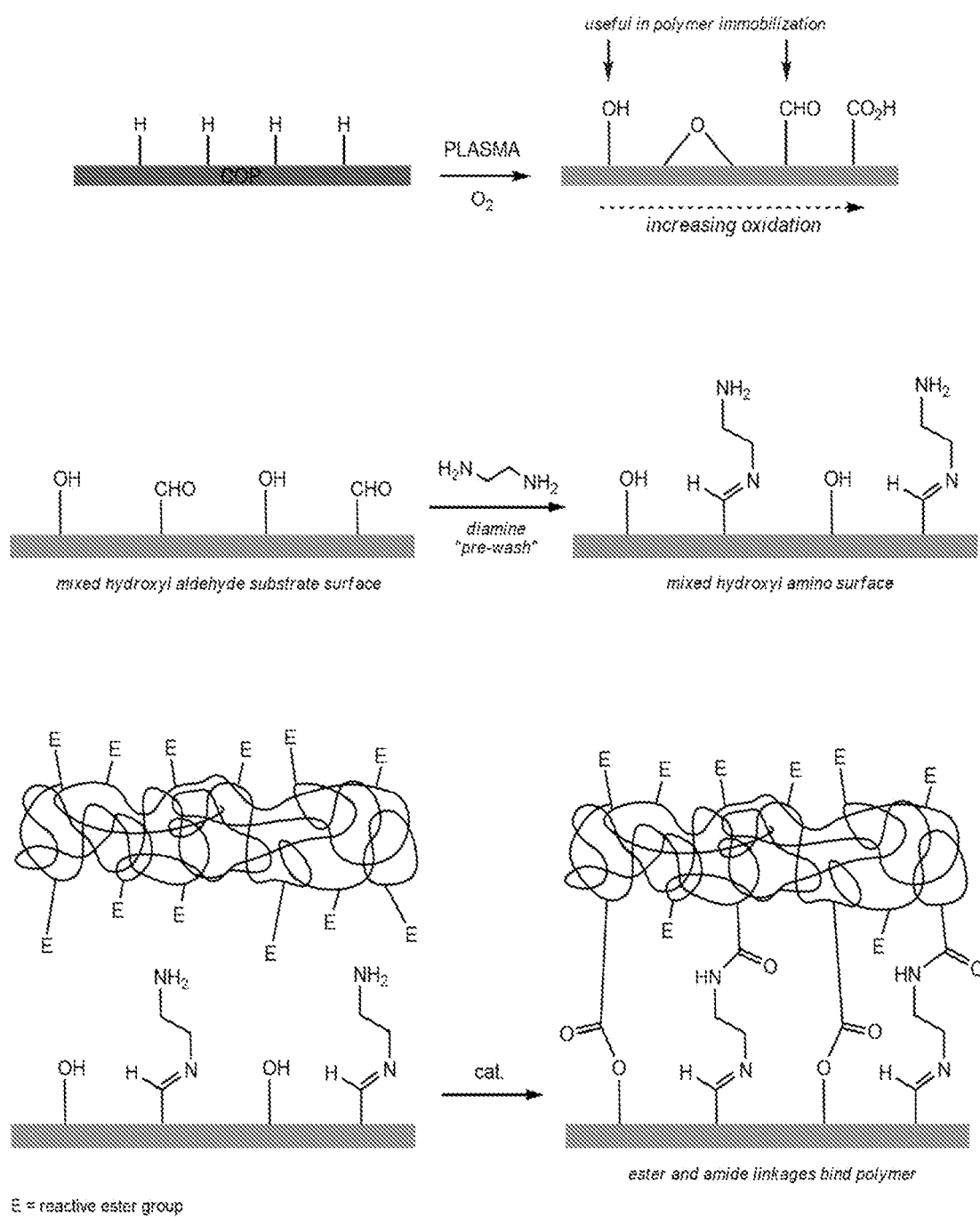


FIG. 1B

3 / 17

Immobilization based on surface hydroxyl groups

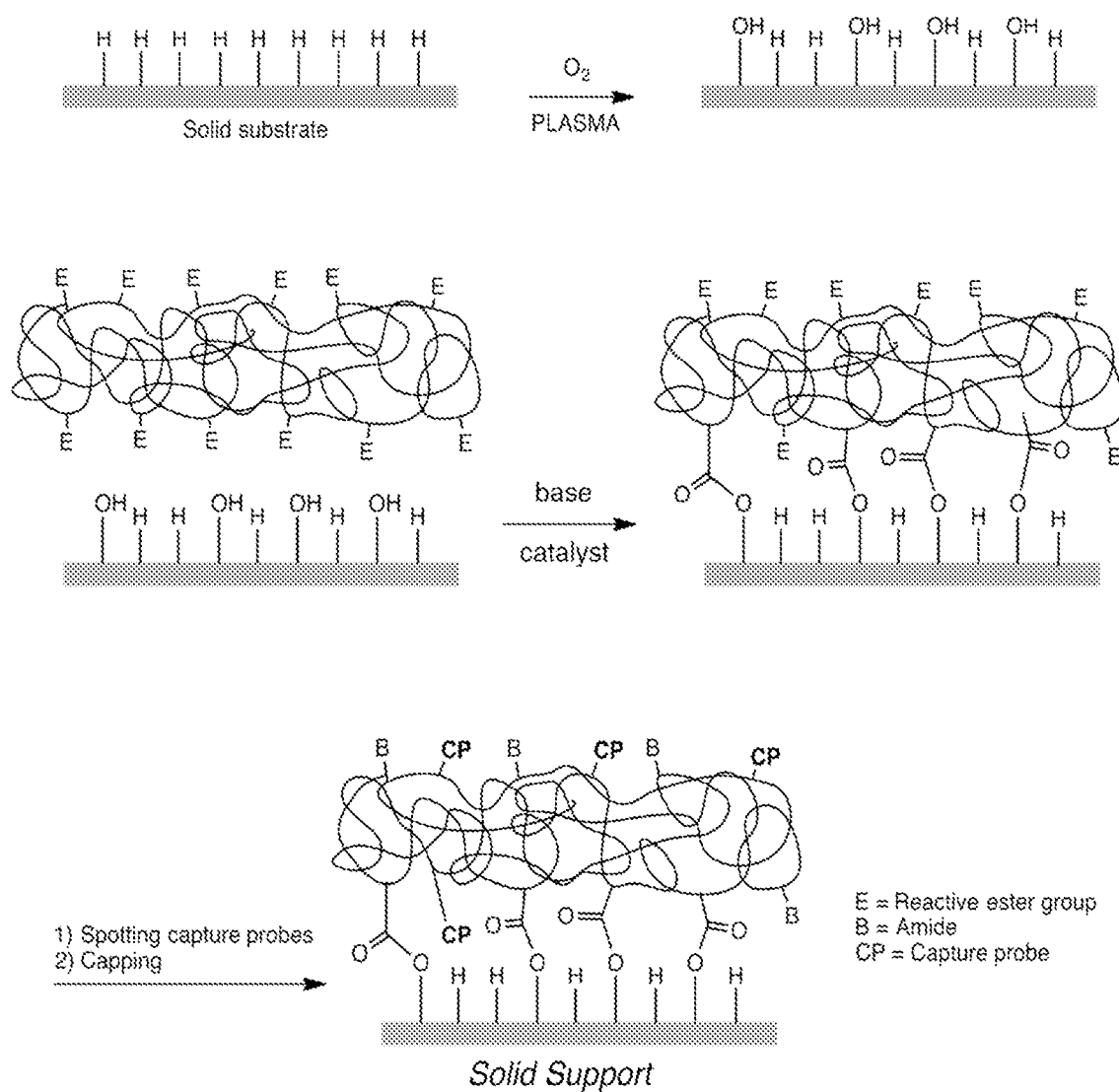
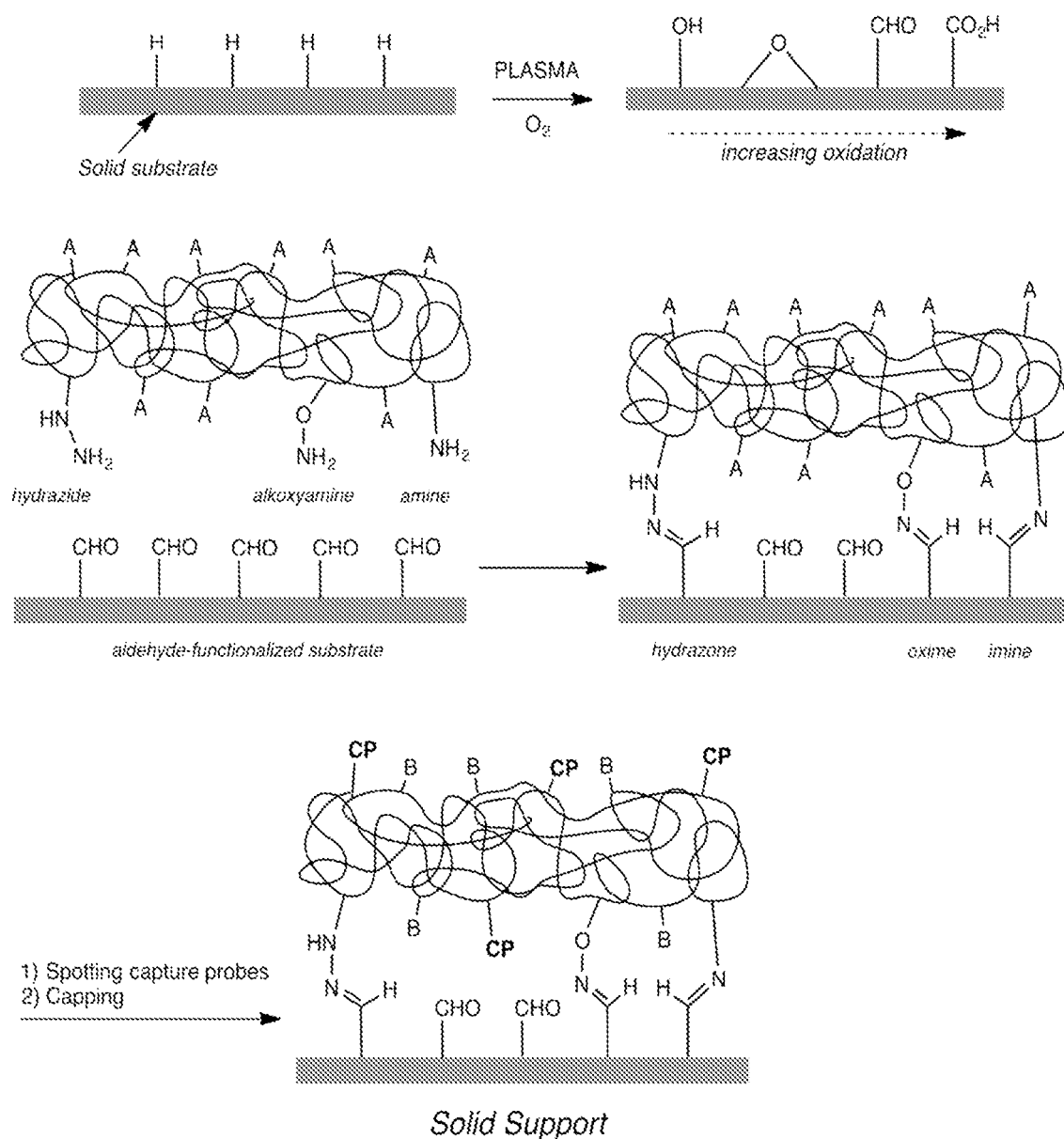


FIG. 1C

4 / 17

Immobilization of copolymers containing amino, alkoxyamine and/or hydrazide functional groups



A = Orthogonally-reactive group (for subsequent bioconjugation), e.g. azide, alkyne, diene, dienophile
 B = Hydrophilic molecules containing complementary cClick components
 CP = Capture probe

FIG. 1D

5 / 17

Immobilization based on diamine pre-wash

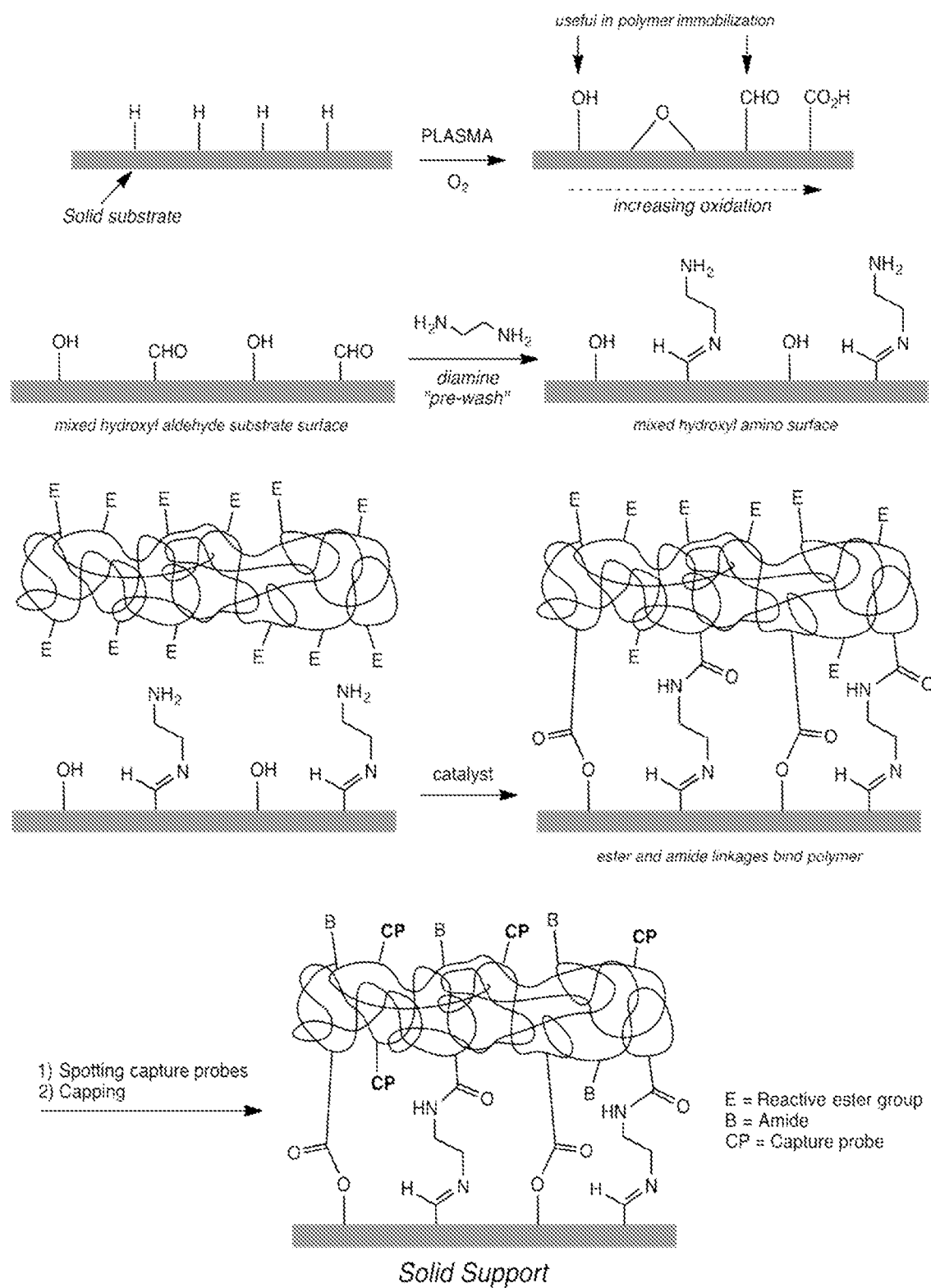


FIG. 1E

6 / 17

Immobilization based on surface amino groups

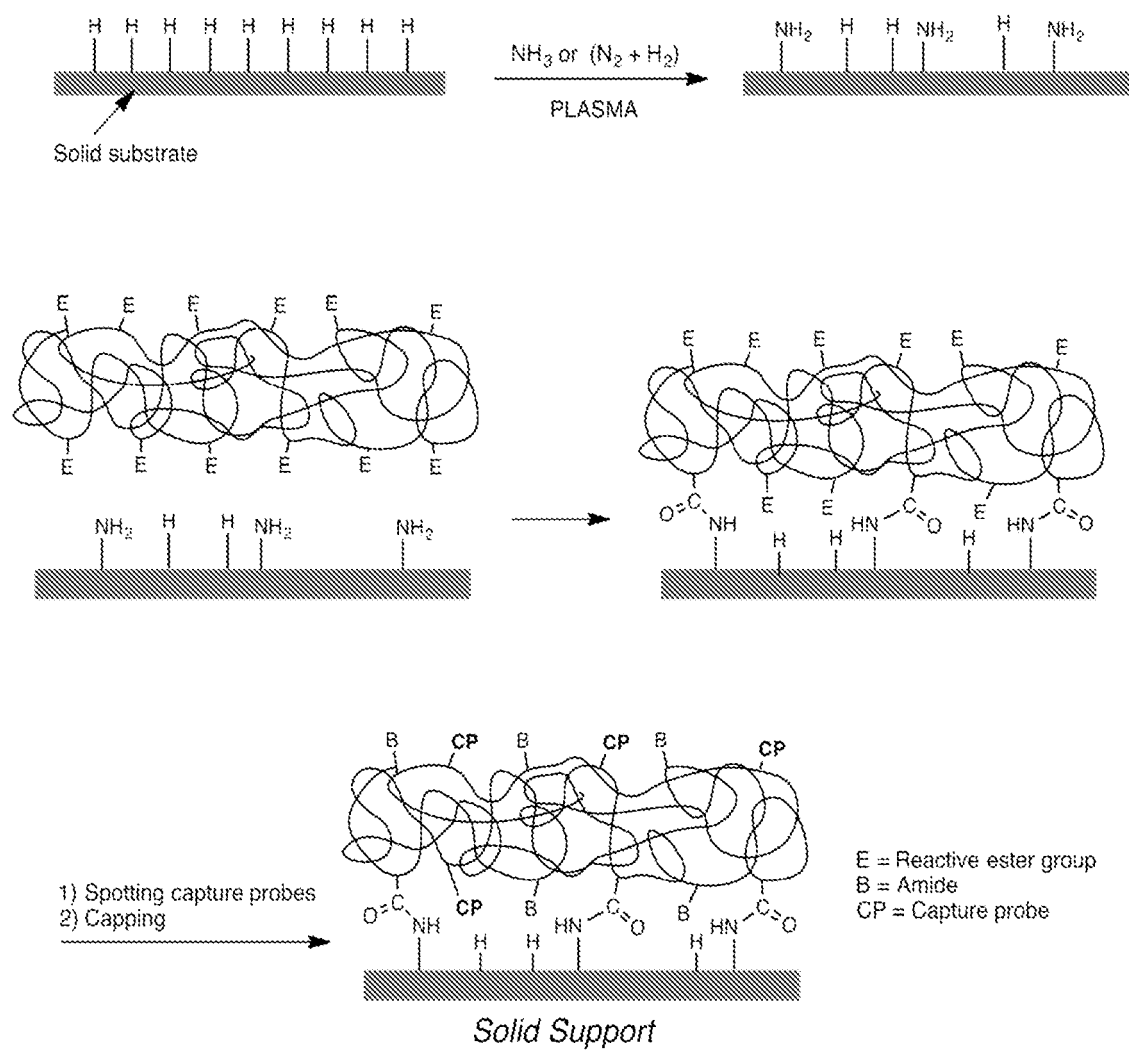


FIG. 1F

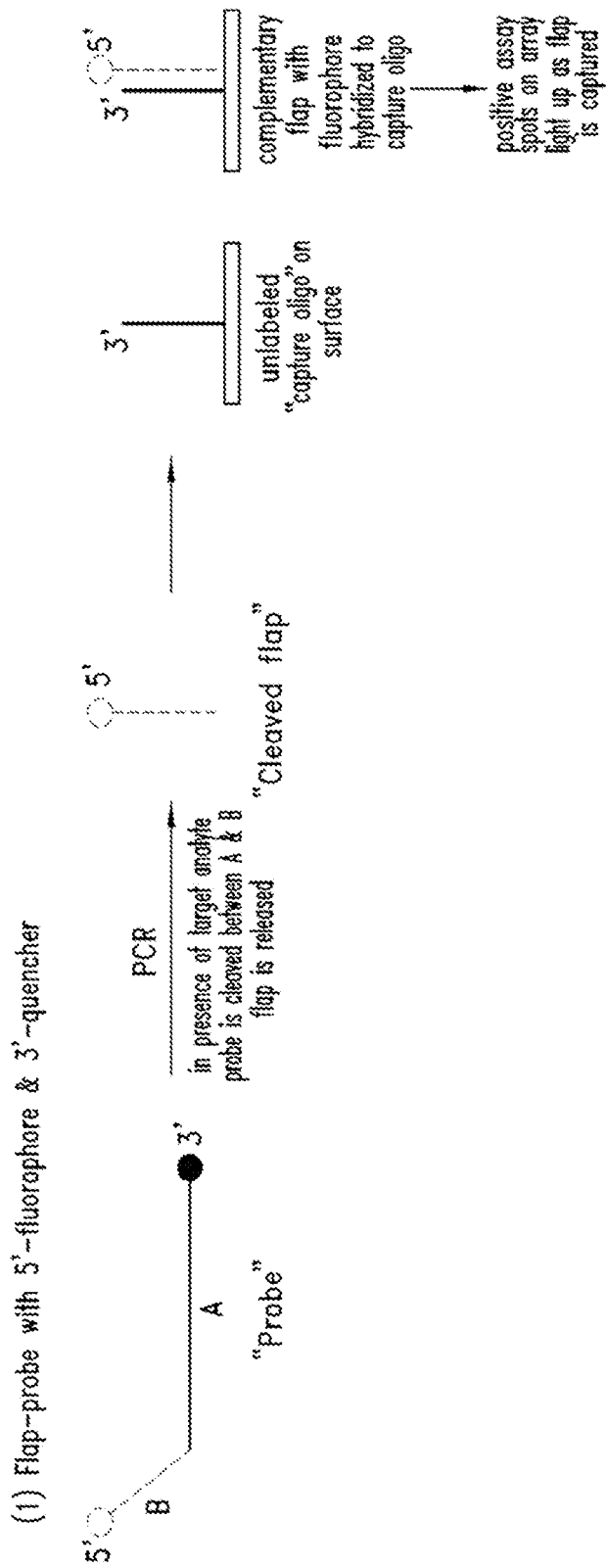


FIG. 2A

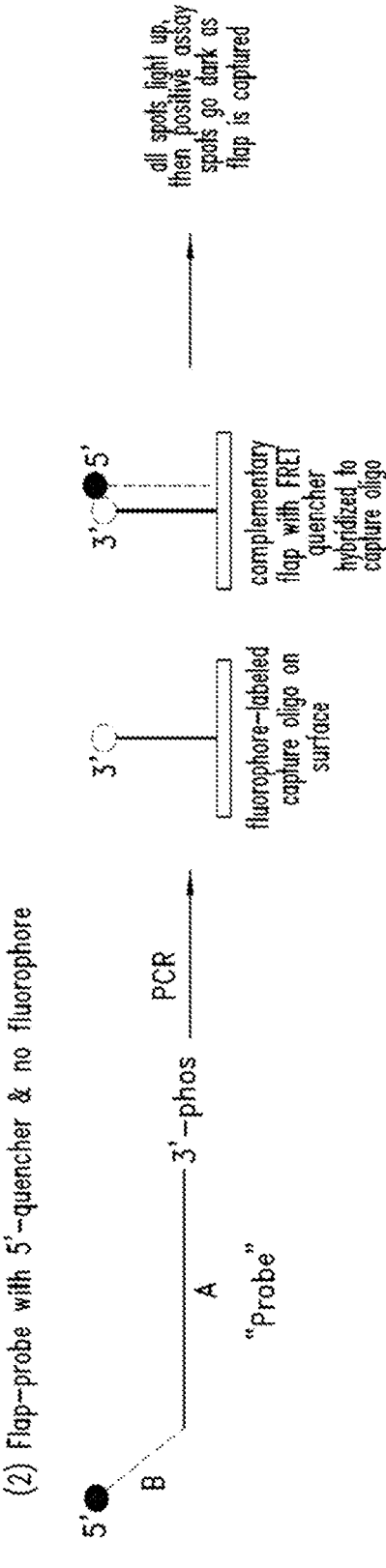
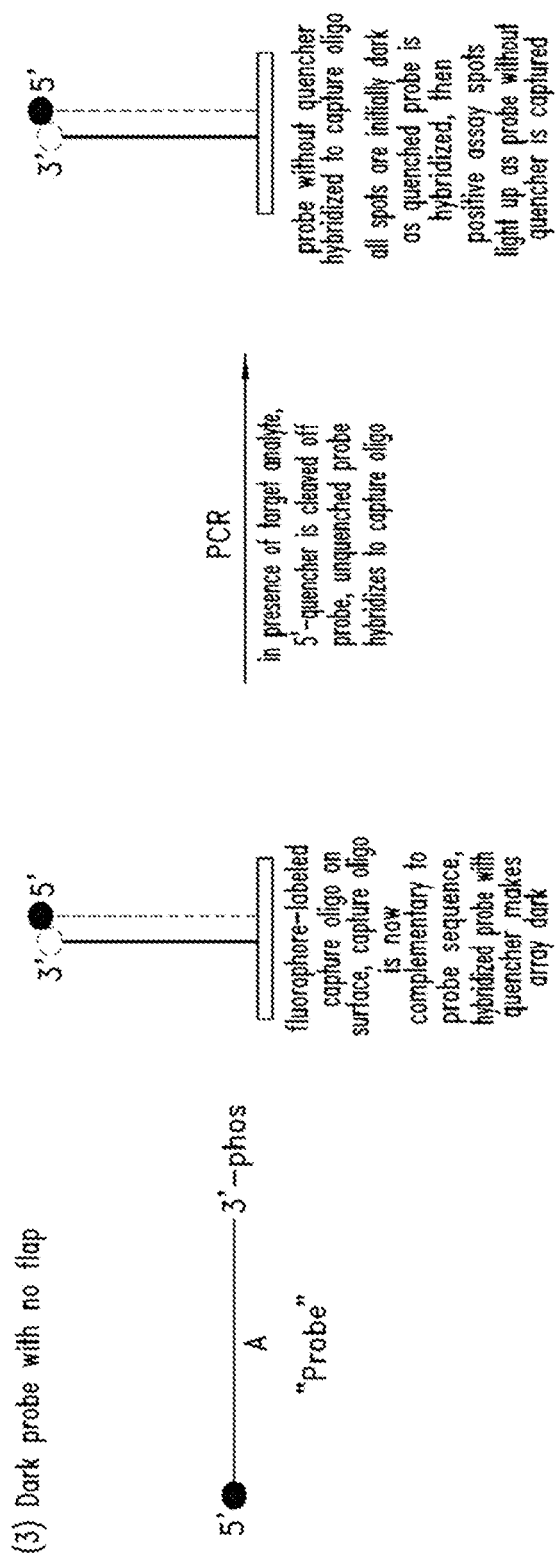


FIG. 2B

A= target-specific oligonucleotide sequence
B= "flap" sequence (non-target specific)

○ fluorophore
● quencher



A= target-specific oligonucleotide sequence
B= "flap" sequence (non-target specific)

○ fluorophore
● quencher

FIG. 2C

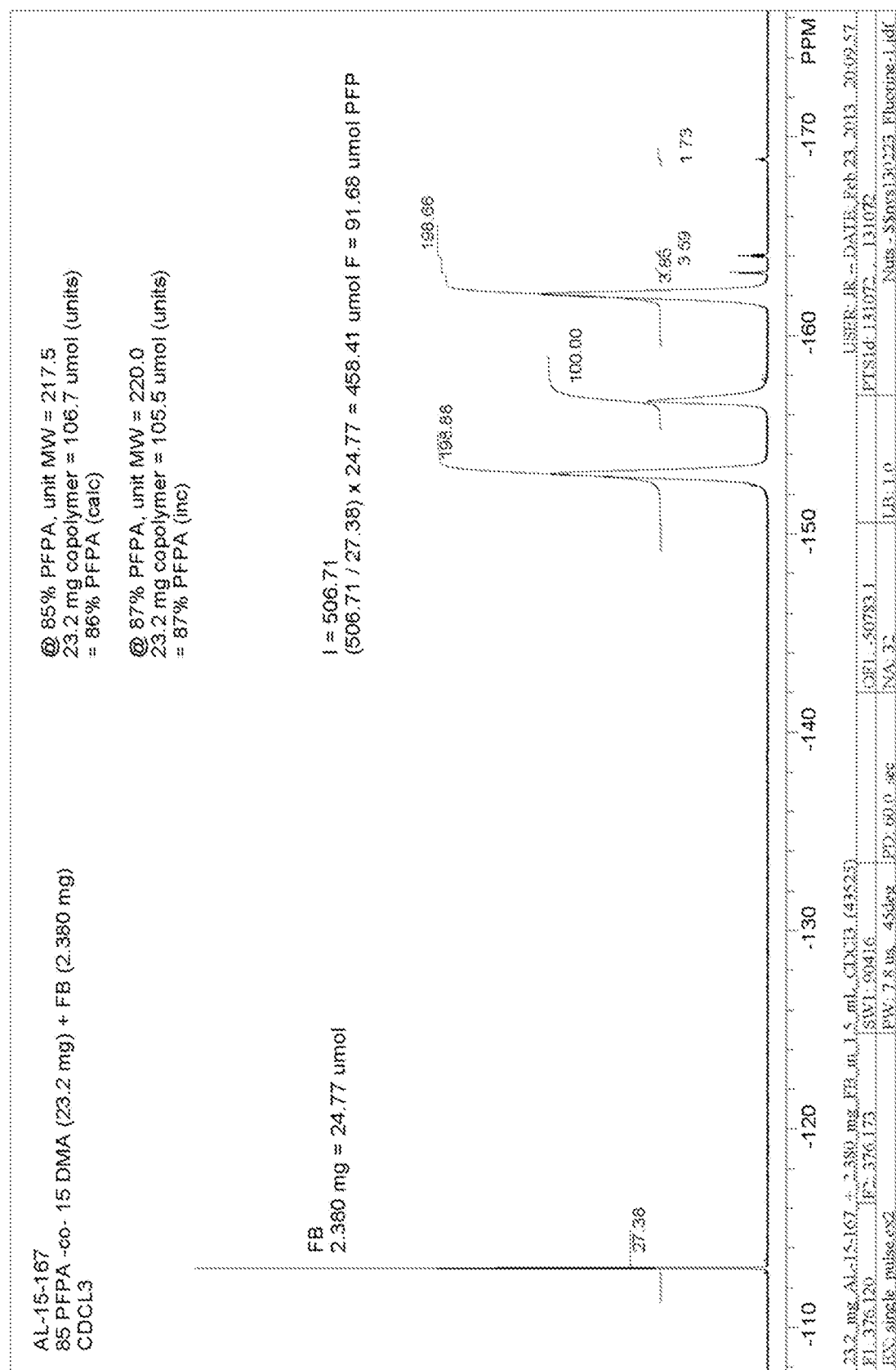


FIG. 3A

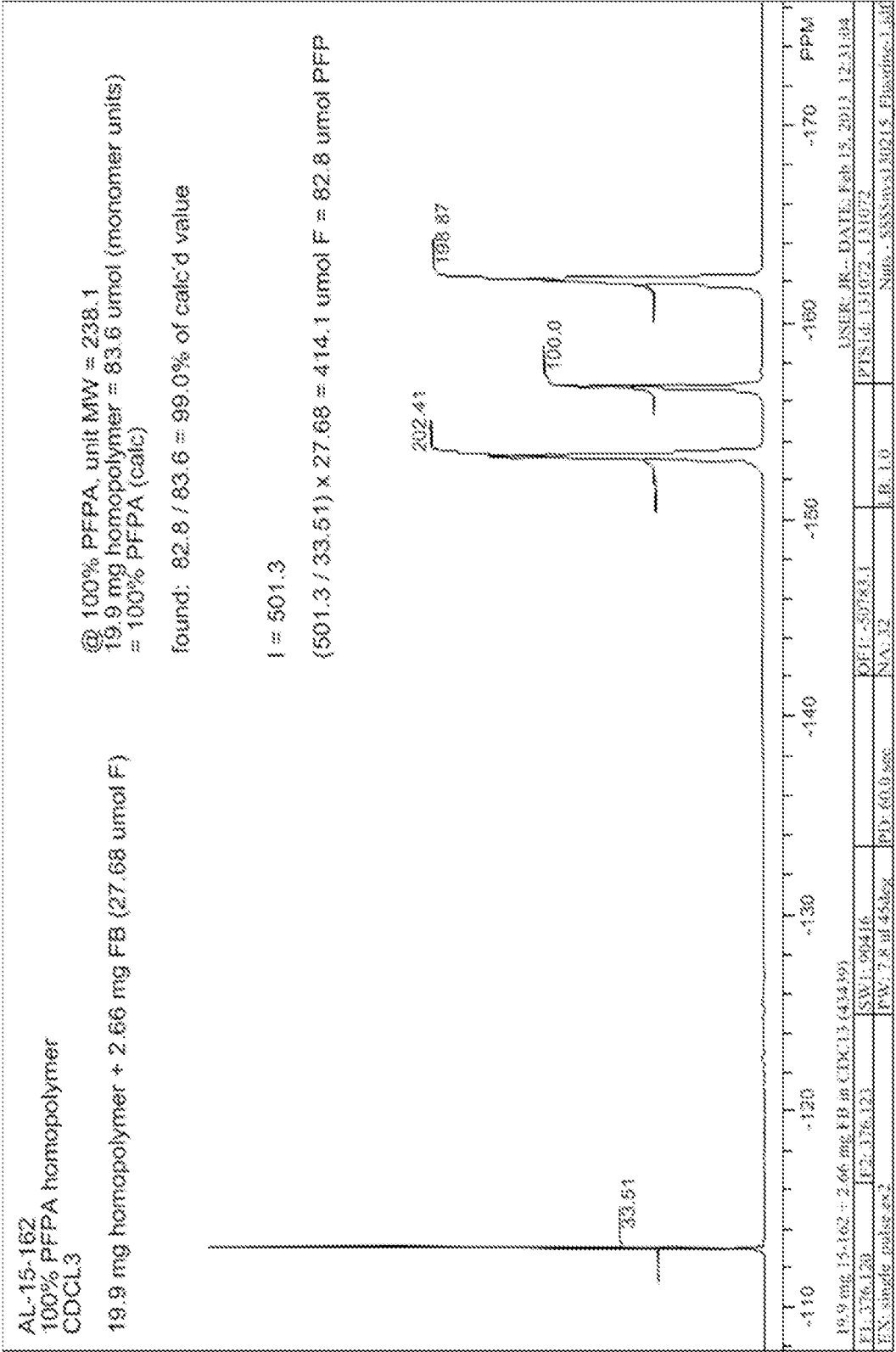


FIG. 3B

12 / 17

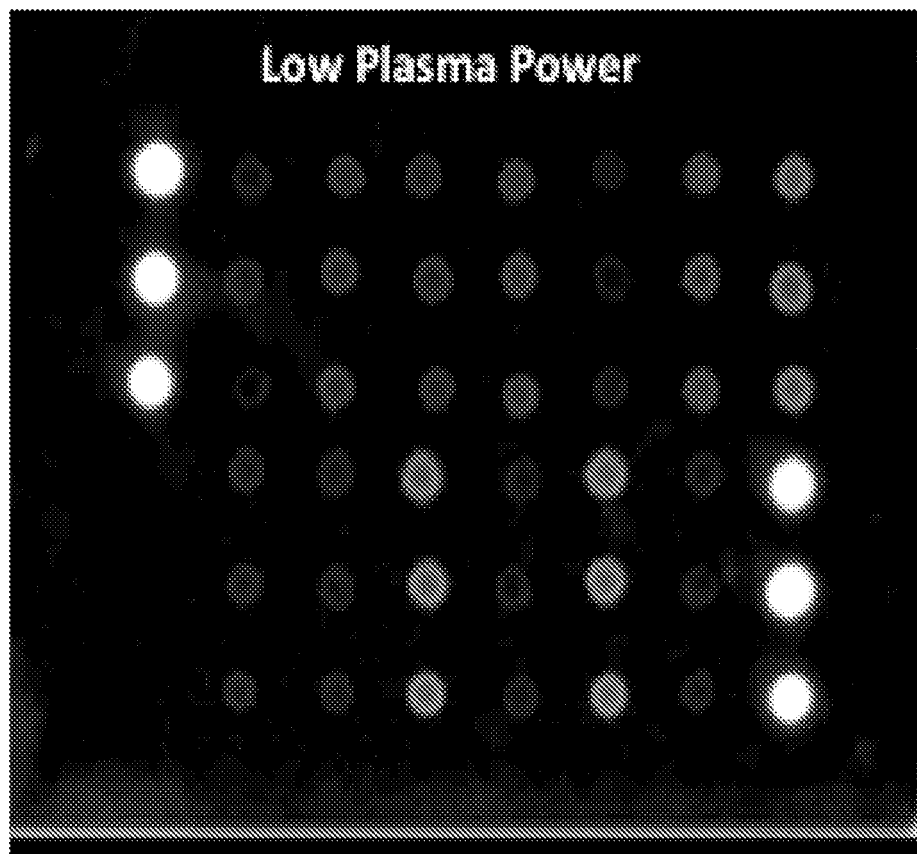


FIG. 4A

13 / 17

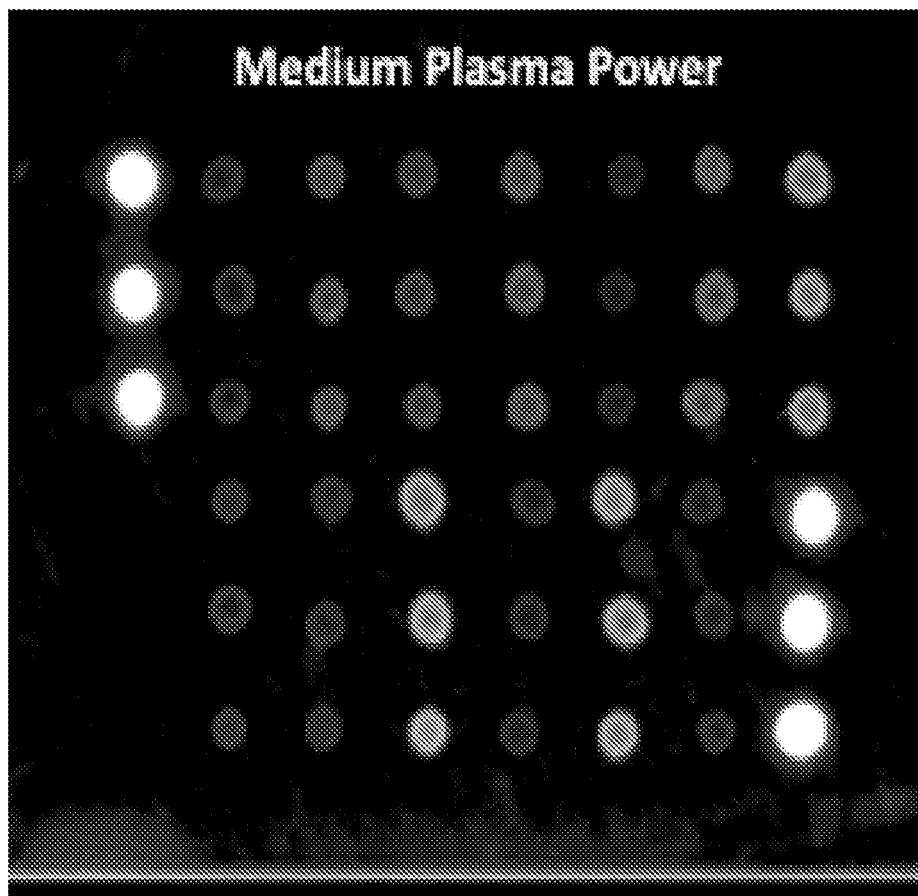


FIG. 4B

14 / 17

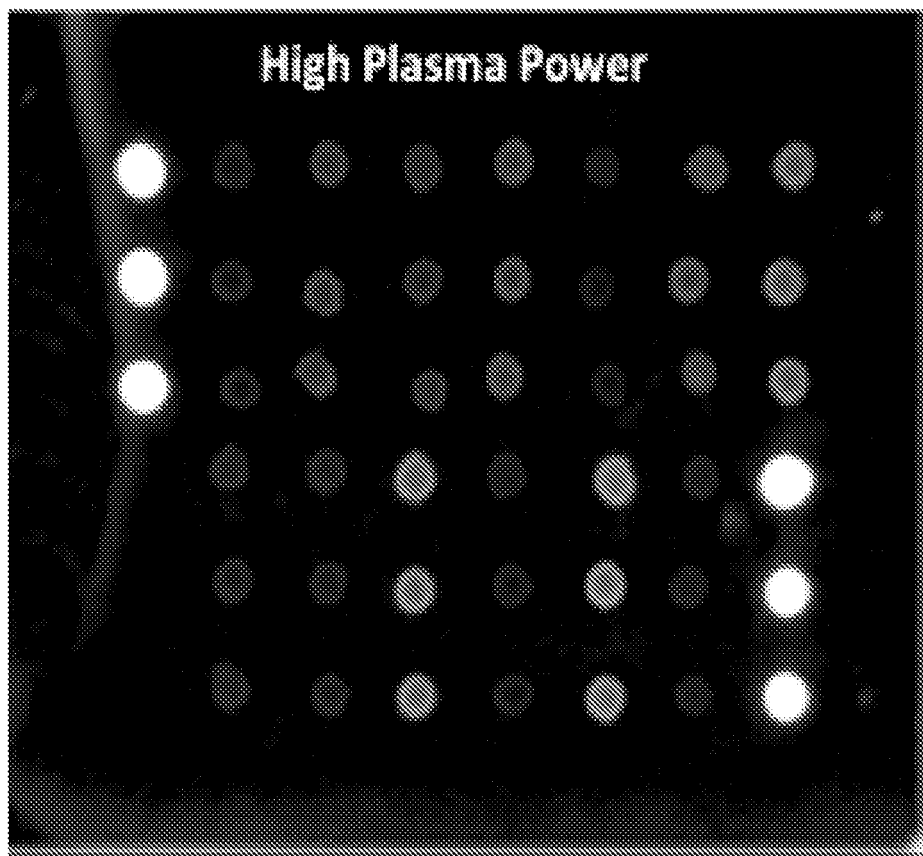


FIG. 4C

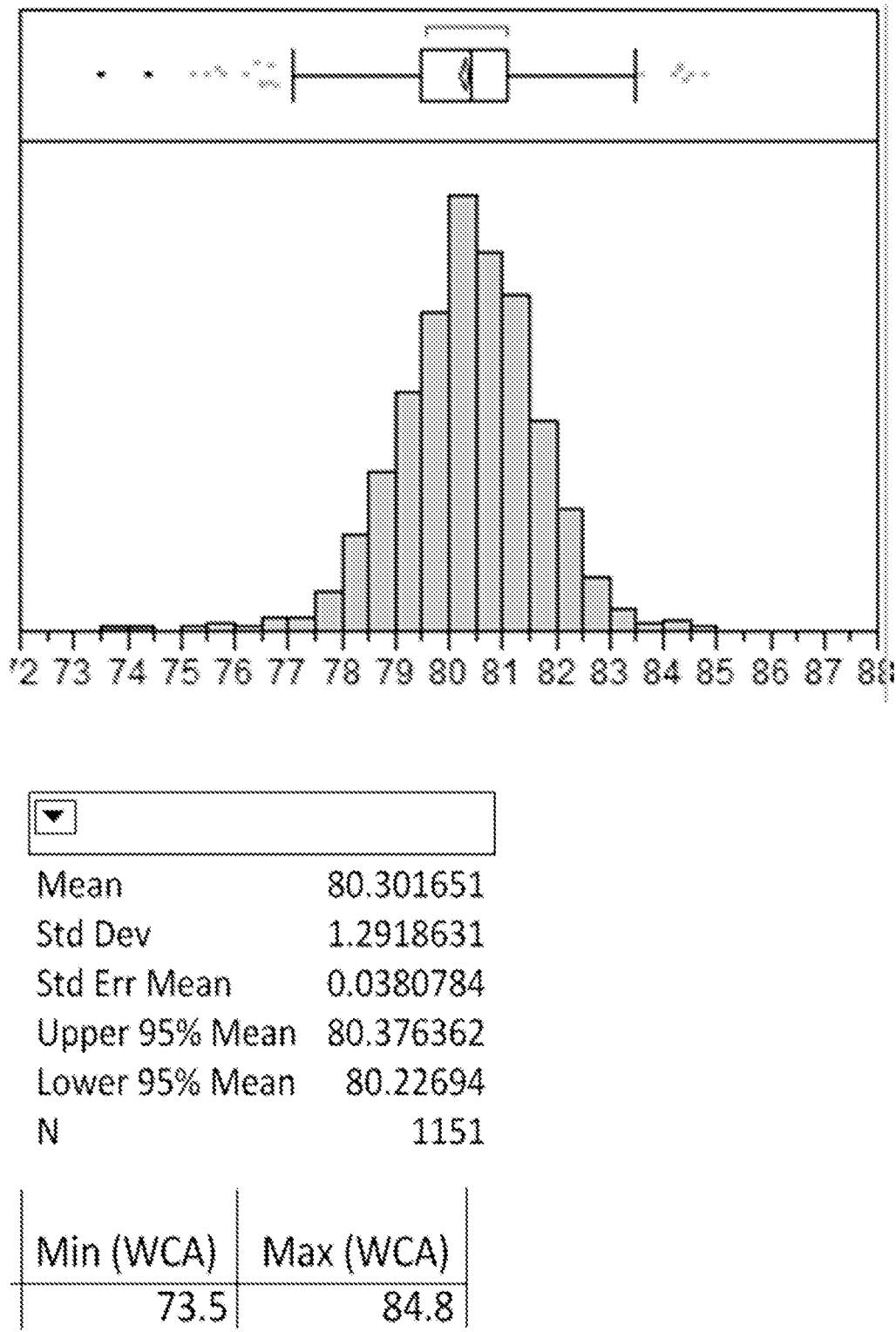
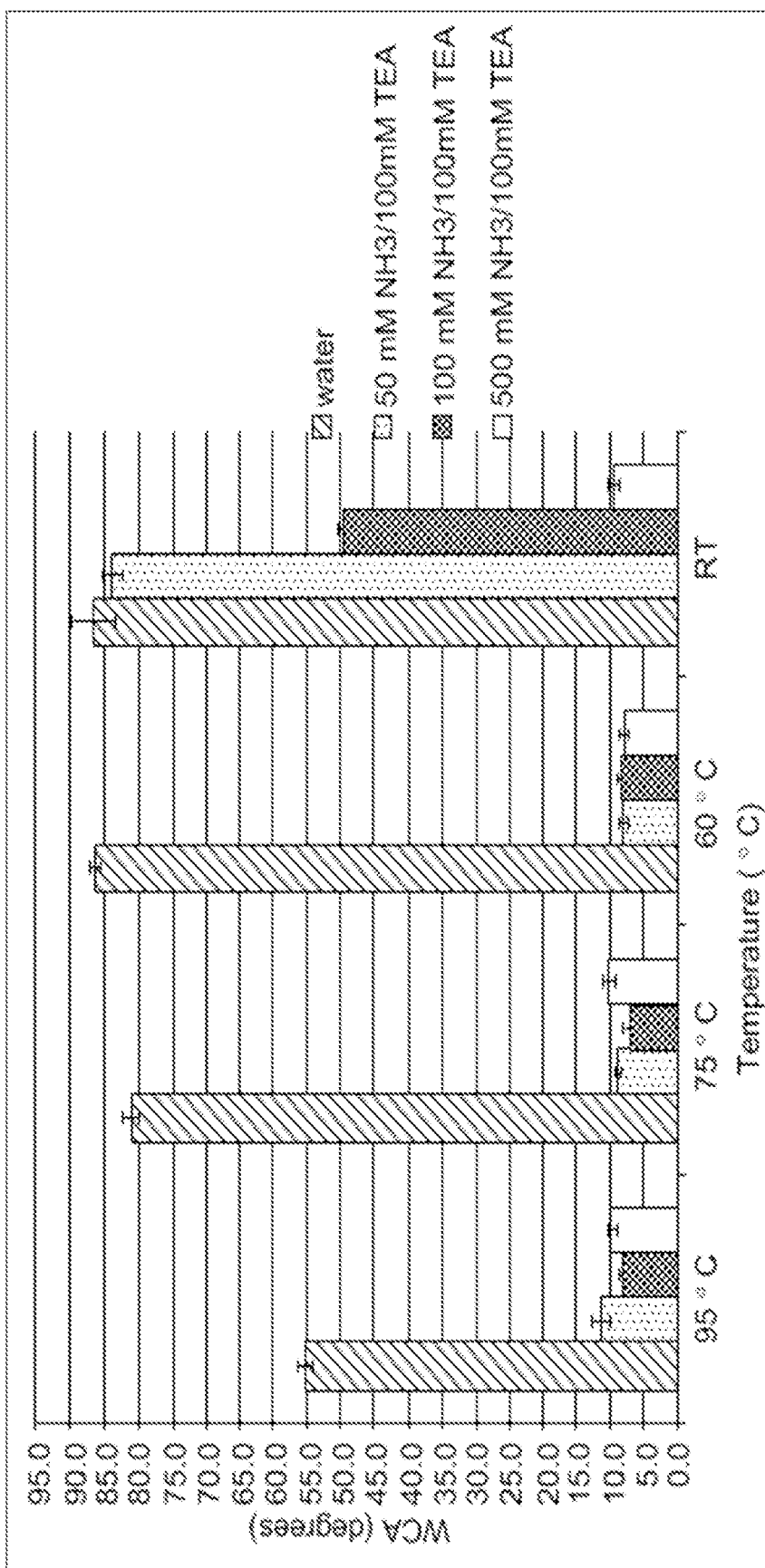


FIG. 5

16 / 17

**FIG. 6**

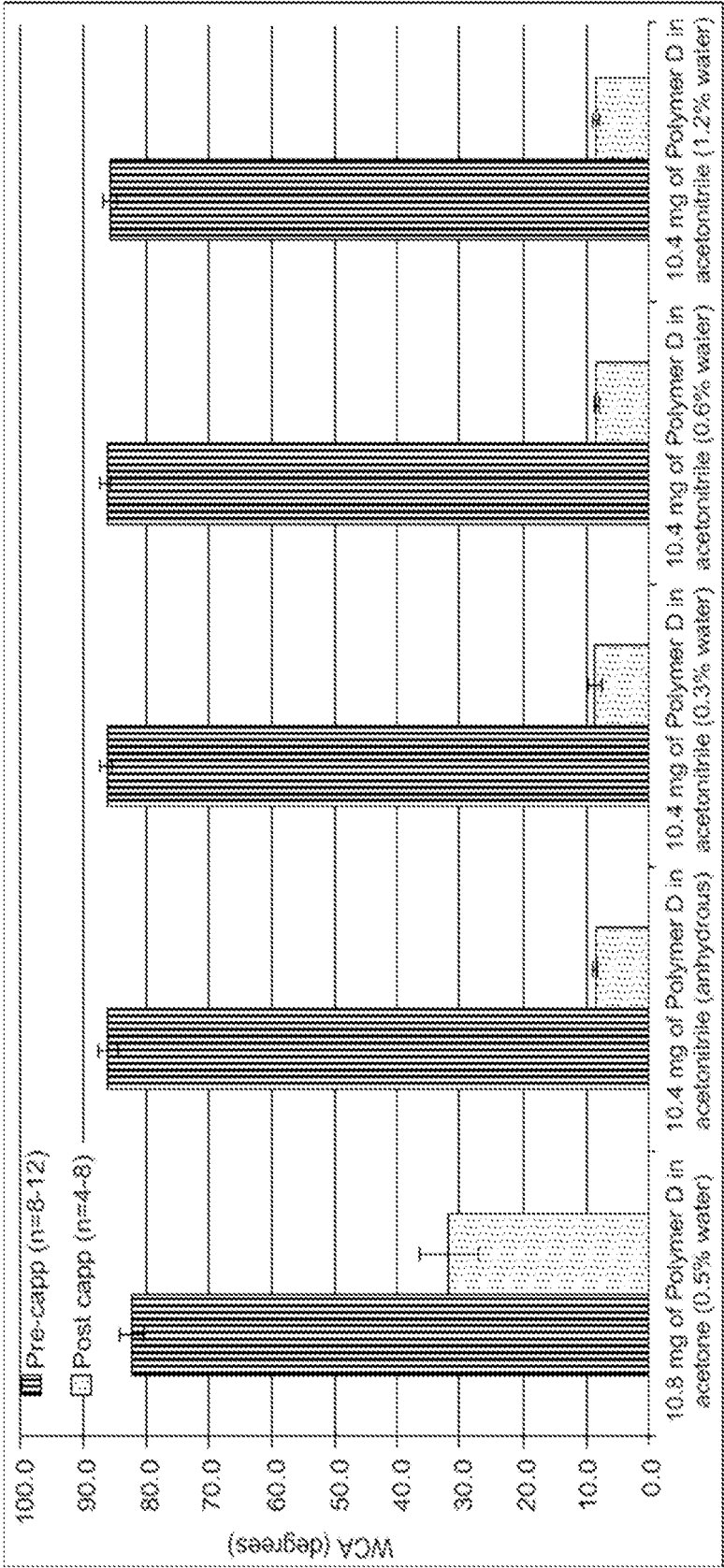


FIG. 7