

FIG. 1

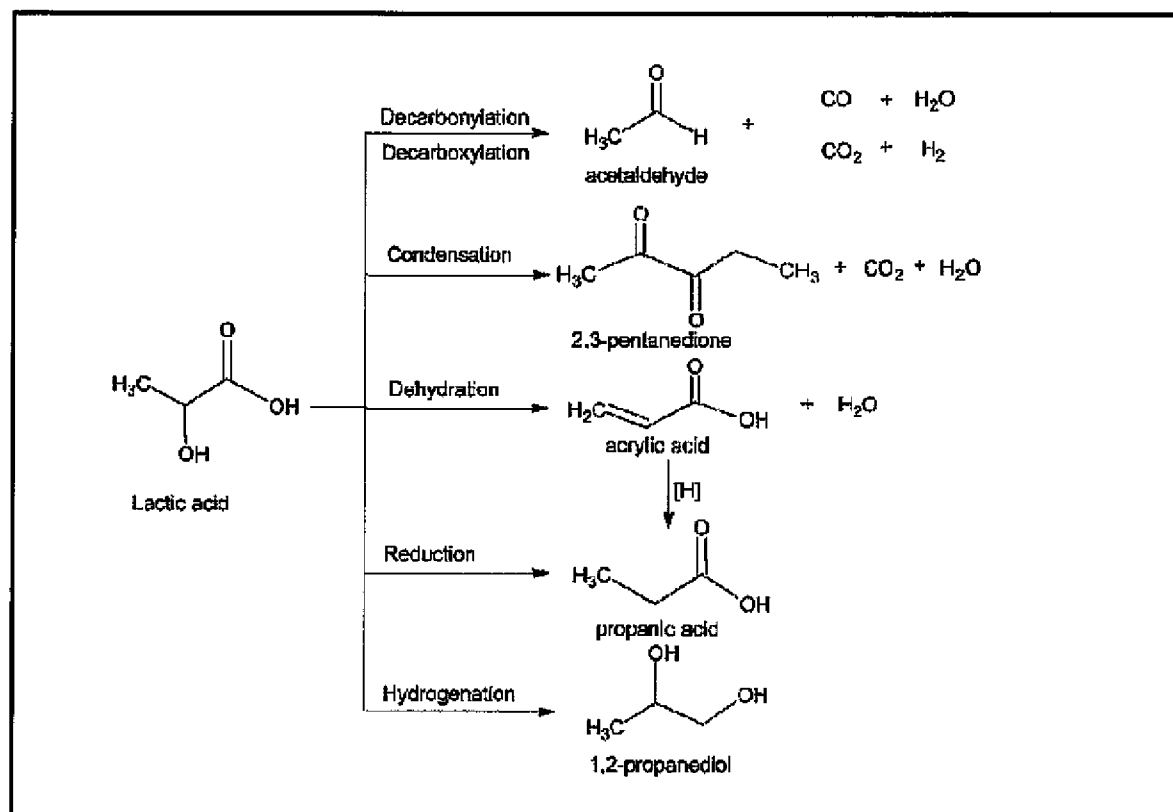


FIG. 2

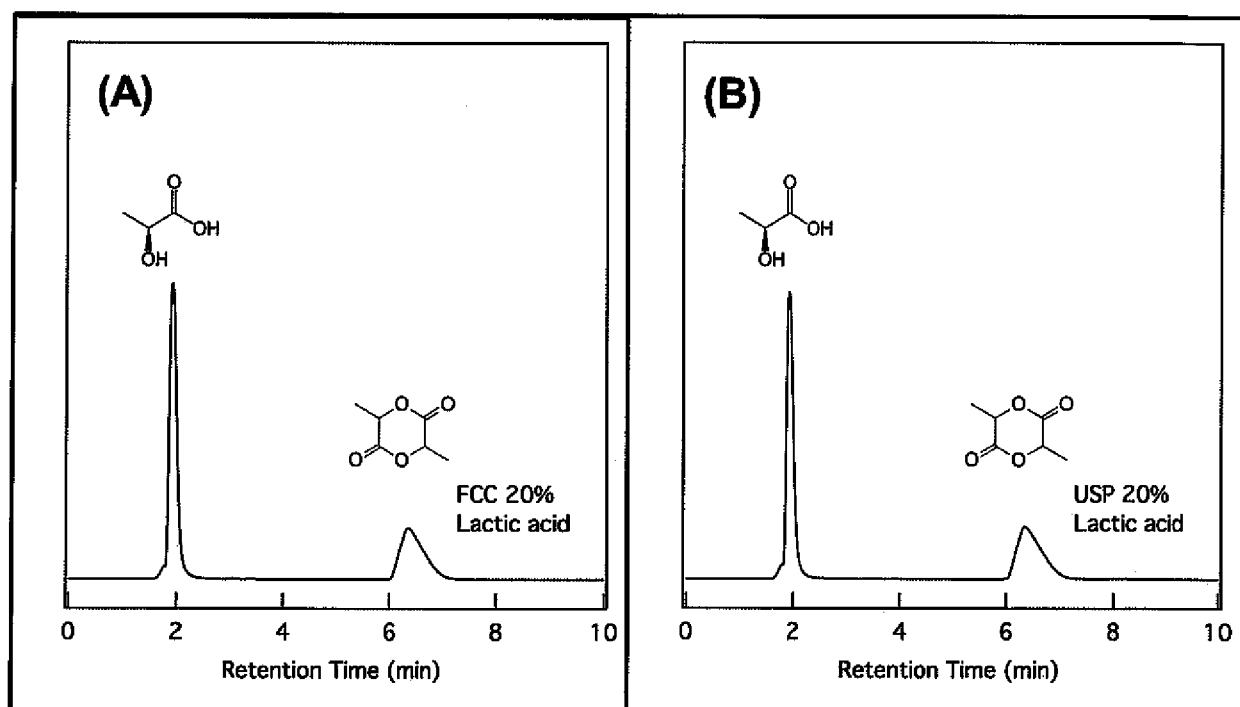


FIG. 3

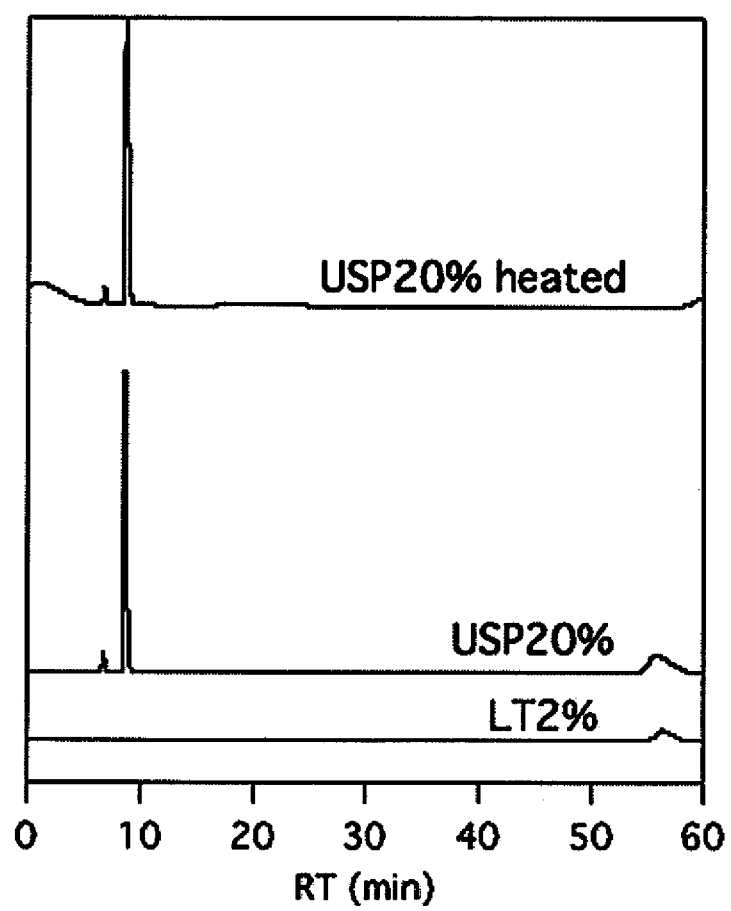


FIG. 4

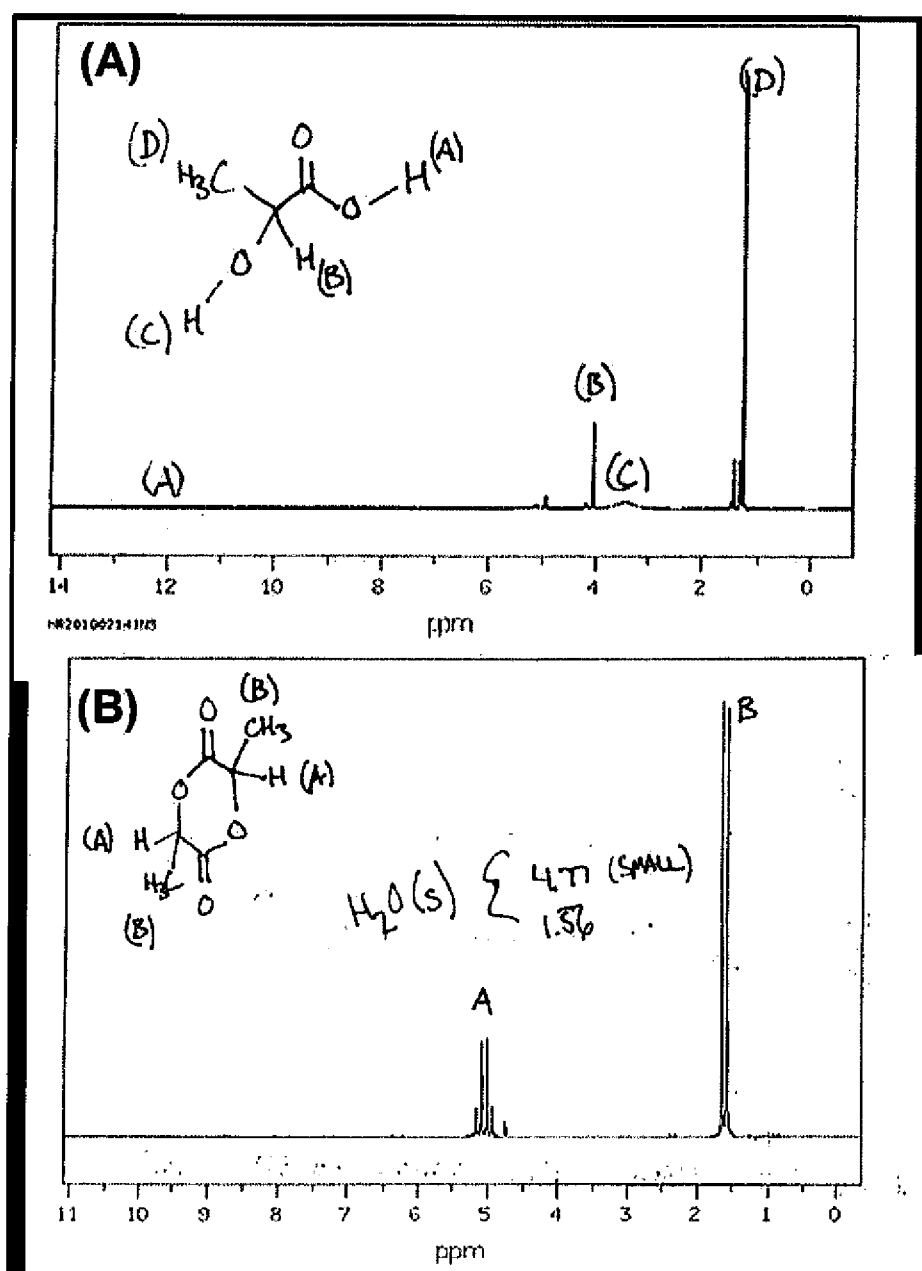


FIG. 5

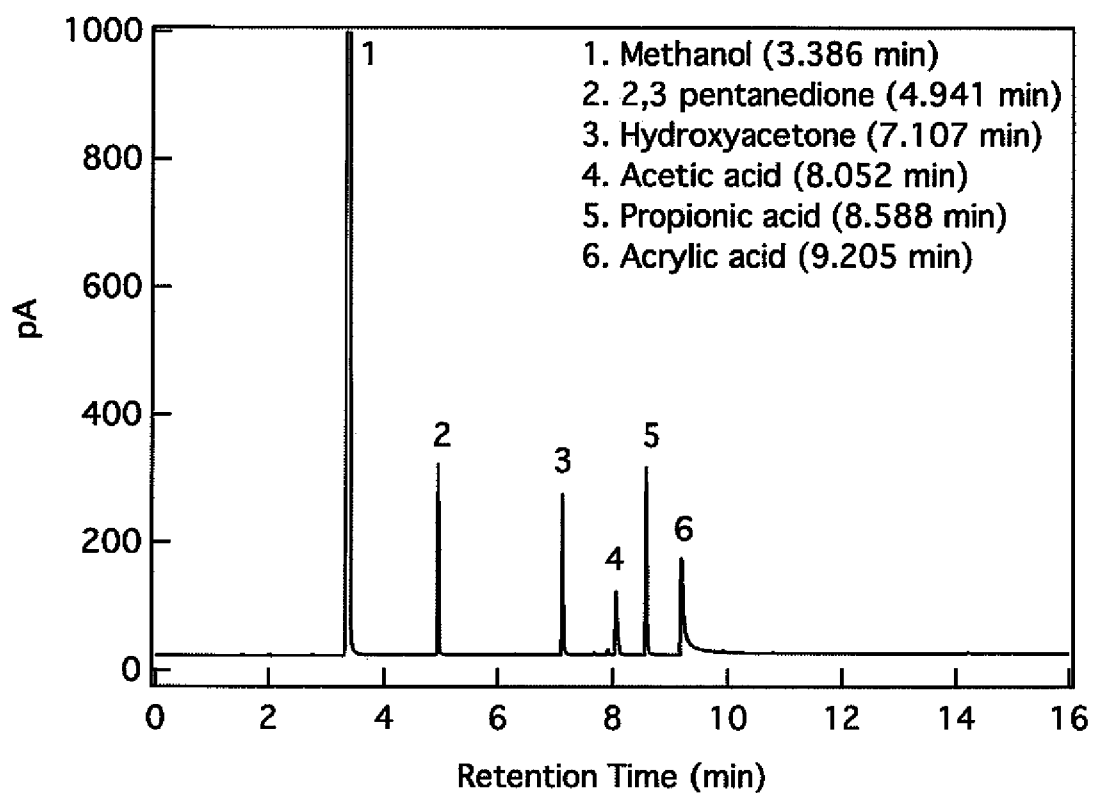


FIG. 6

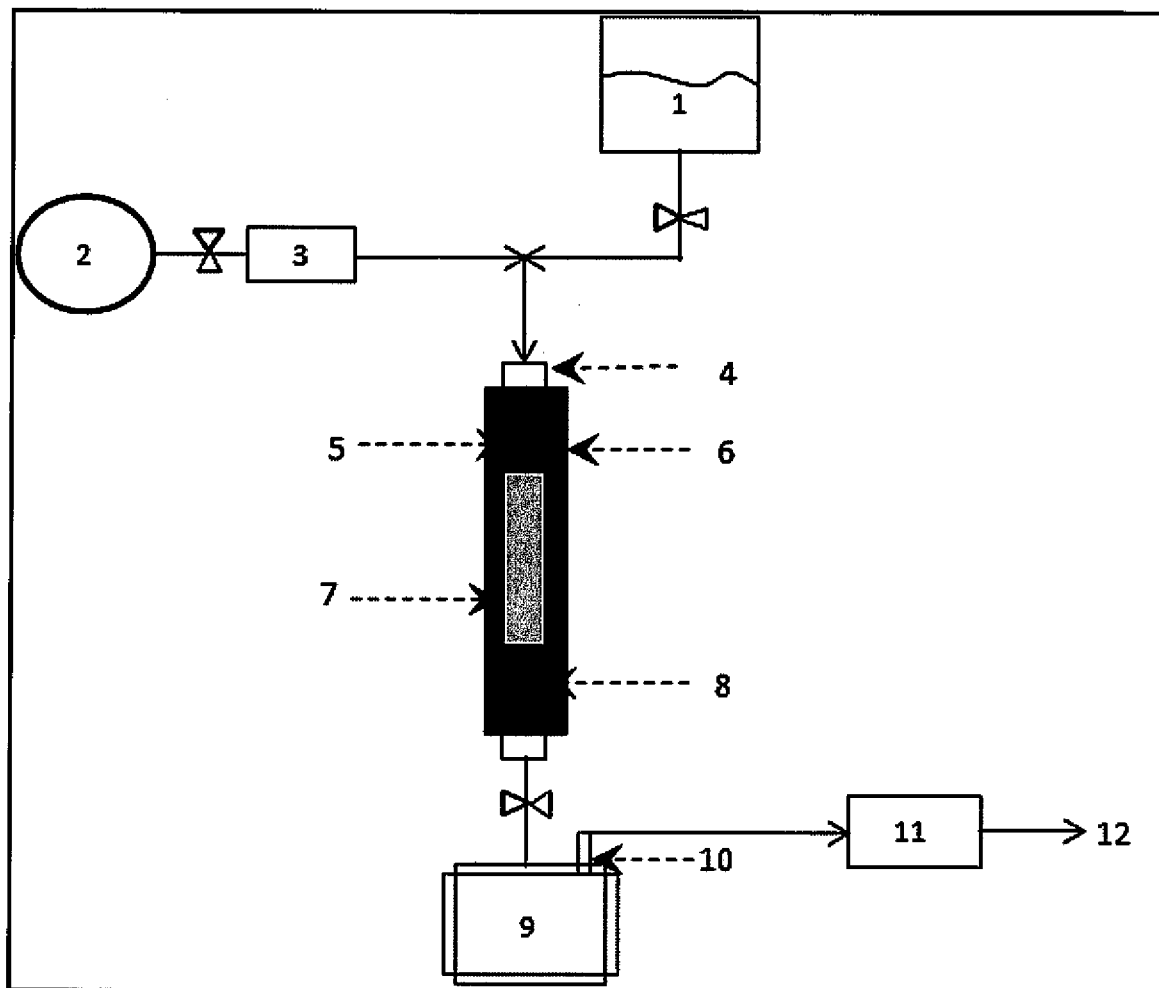


FIG. 7

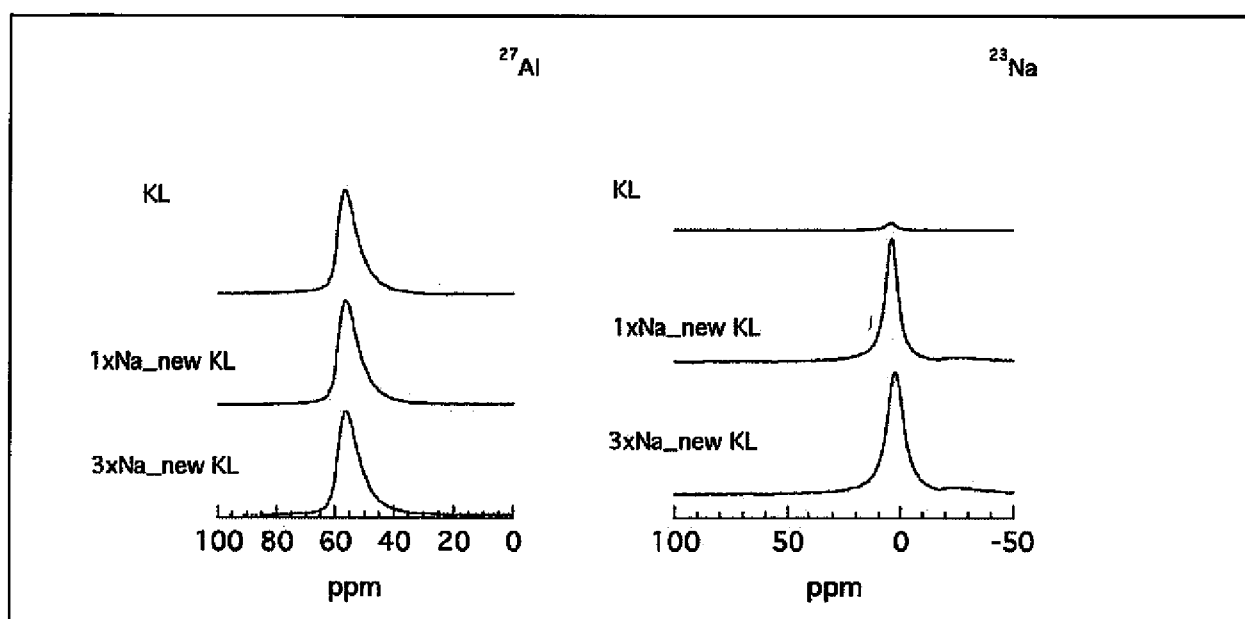
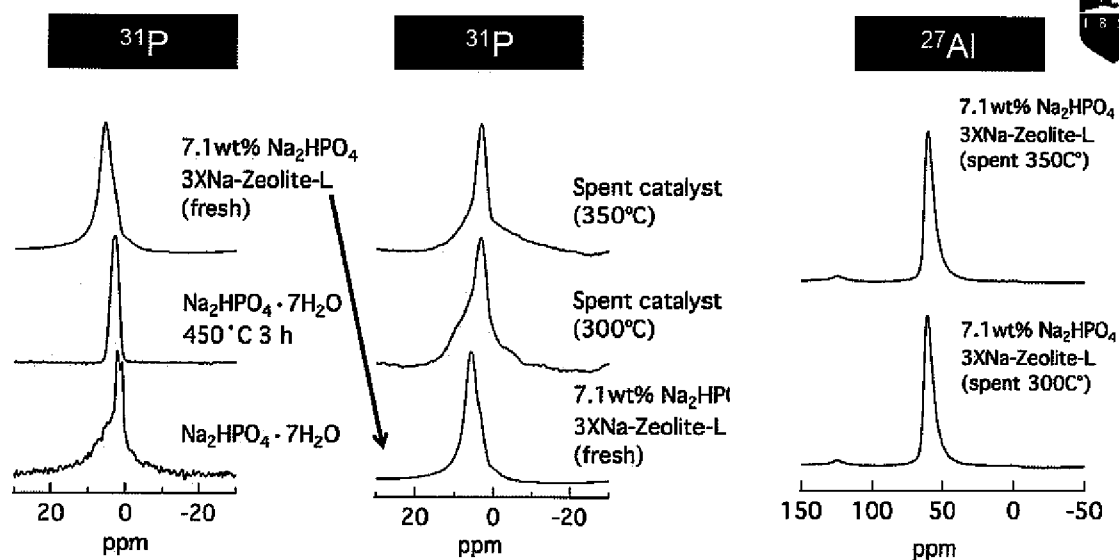


FIG. 8

^{31}P and ^{27}Al NMR: chemical shift observed for phosphorous species; single peak for Al

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Peak at 60.8 ppm: Tetrahedral Al
Octahedral Al (~7 ppm; Alumina)
is negligible.

FIG. 9

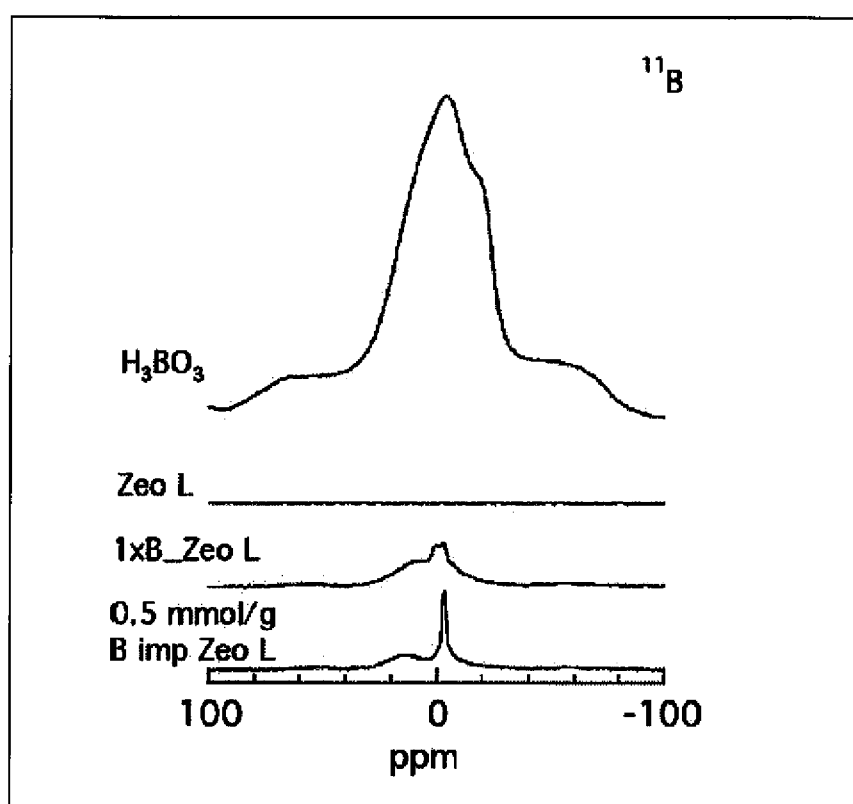


FIG. 10

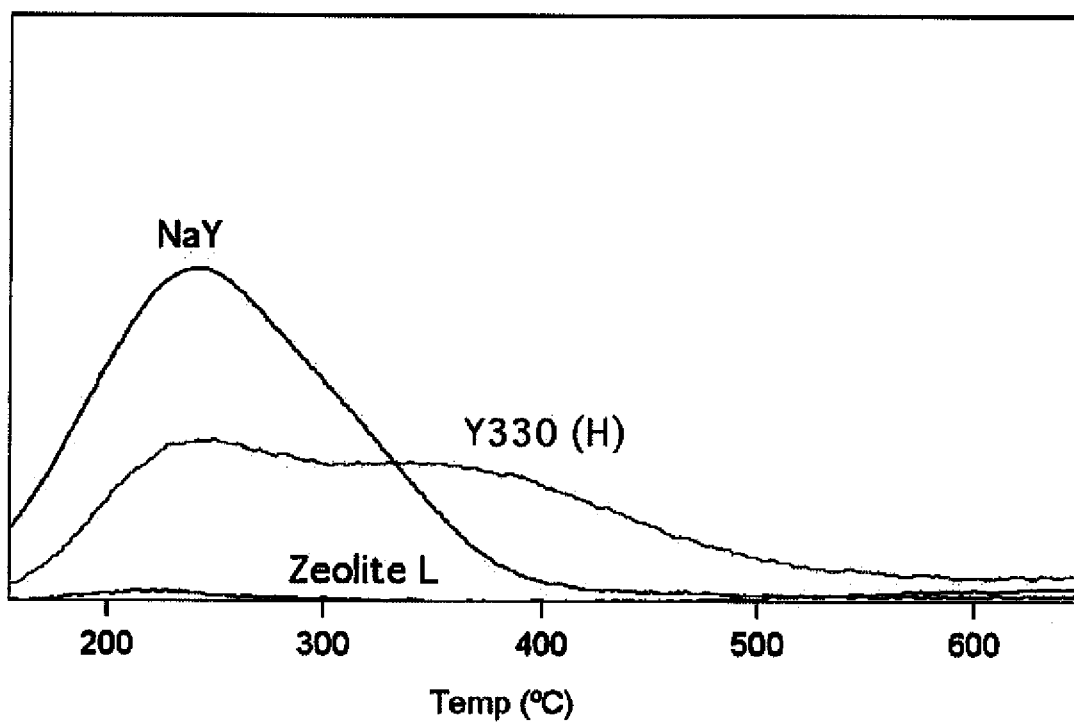


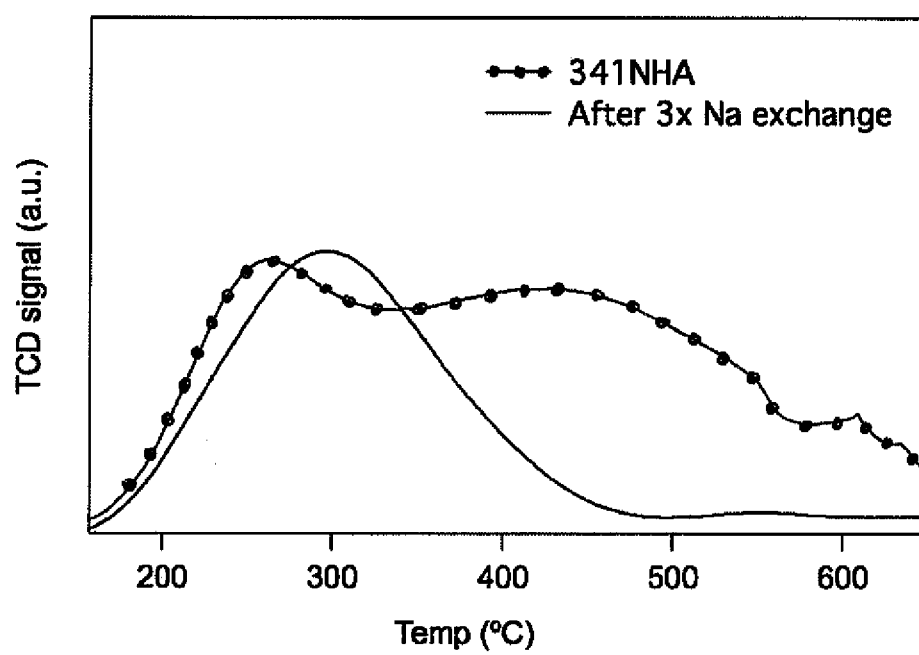
FIG. 11

FIG. 12

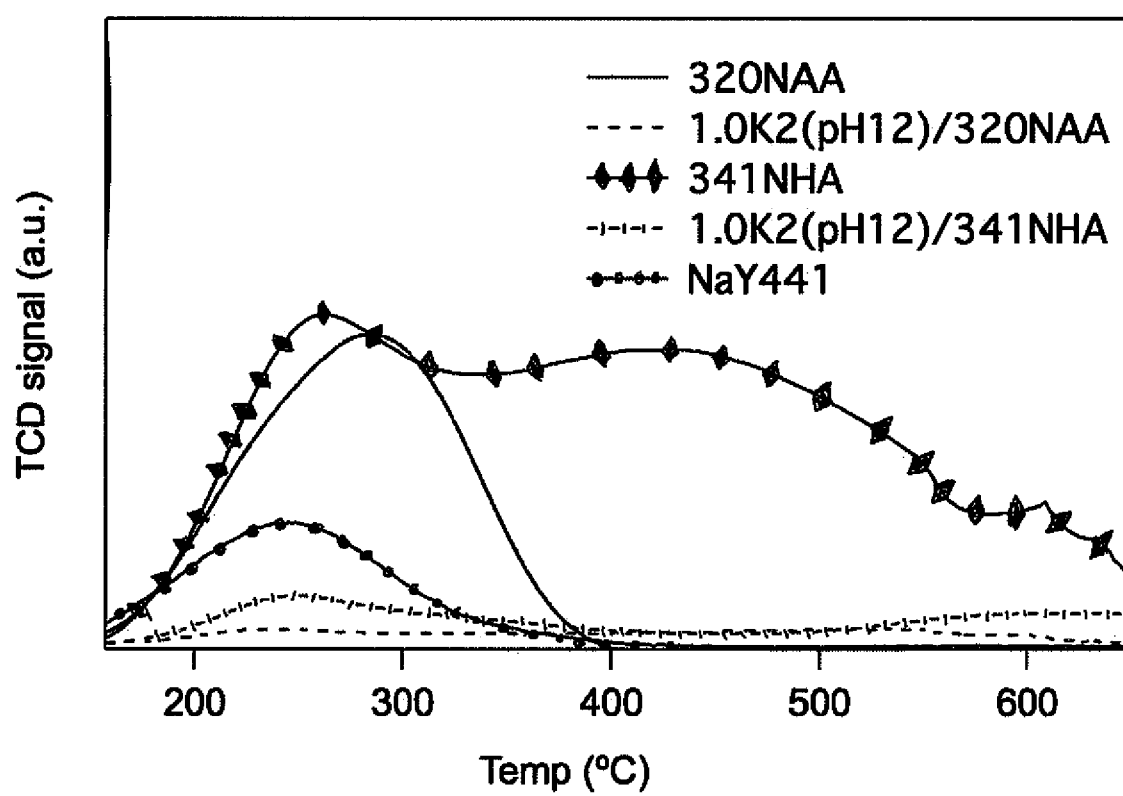


FIG. 13

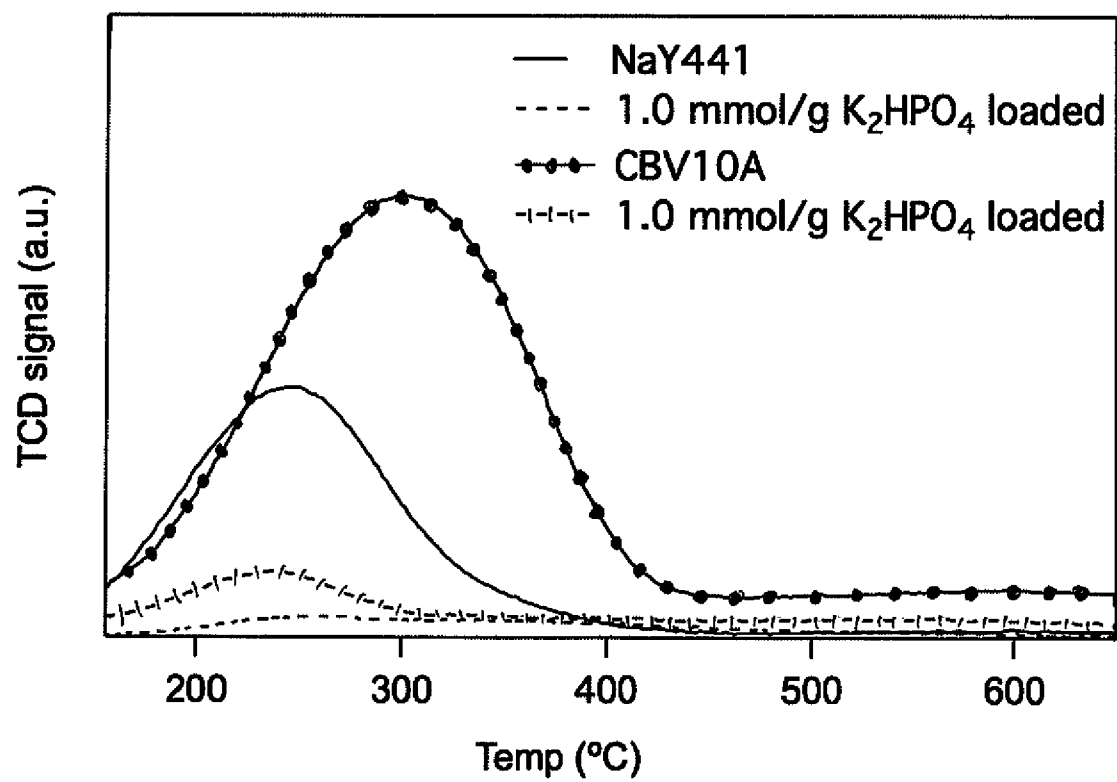


FIG 14

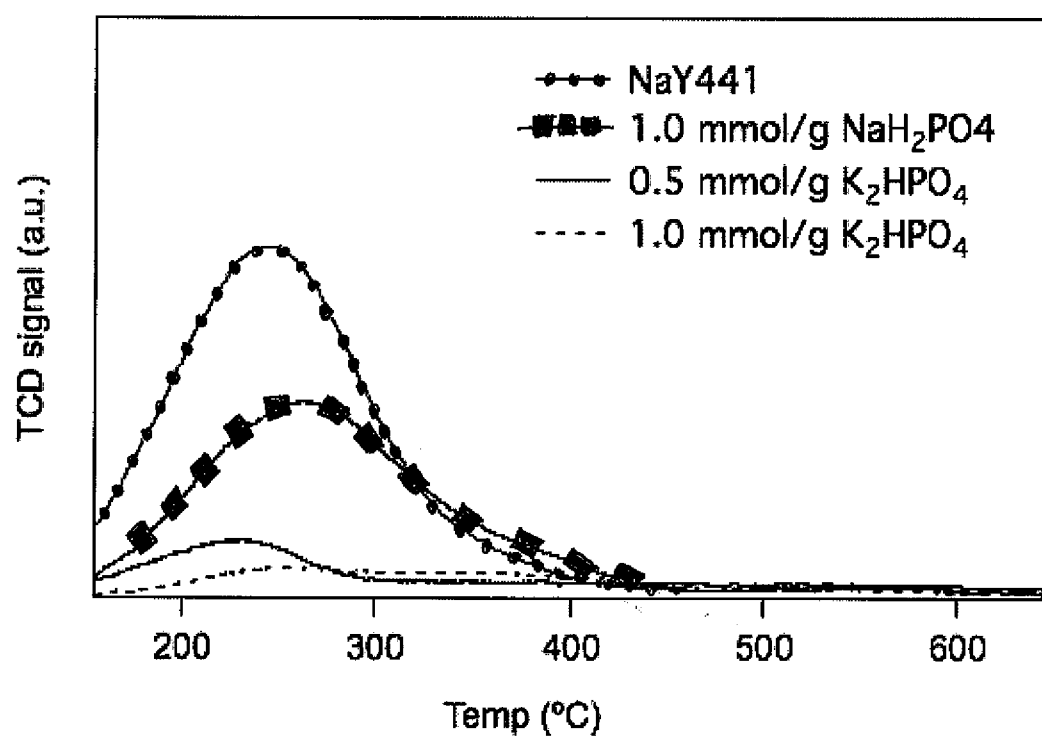


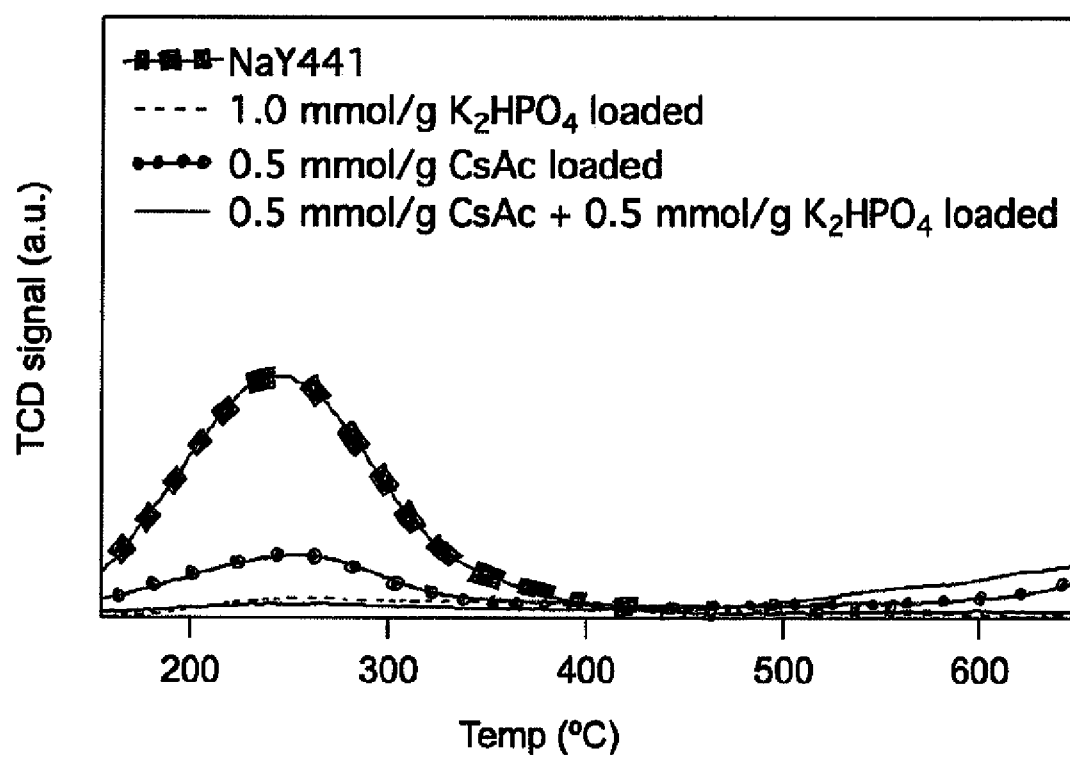
FIG 15

FIG. 16

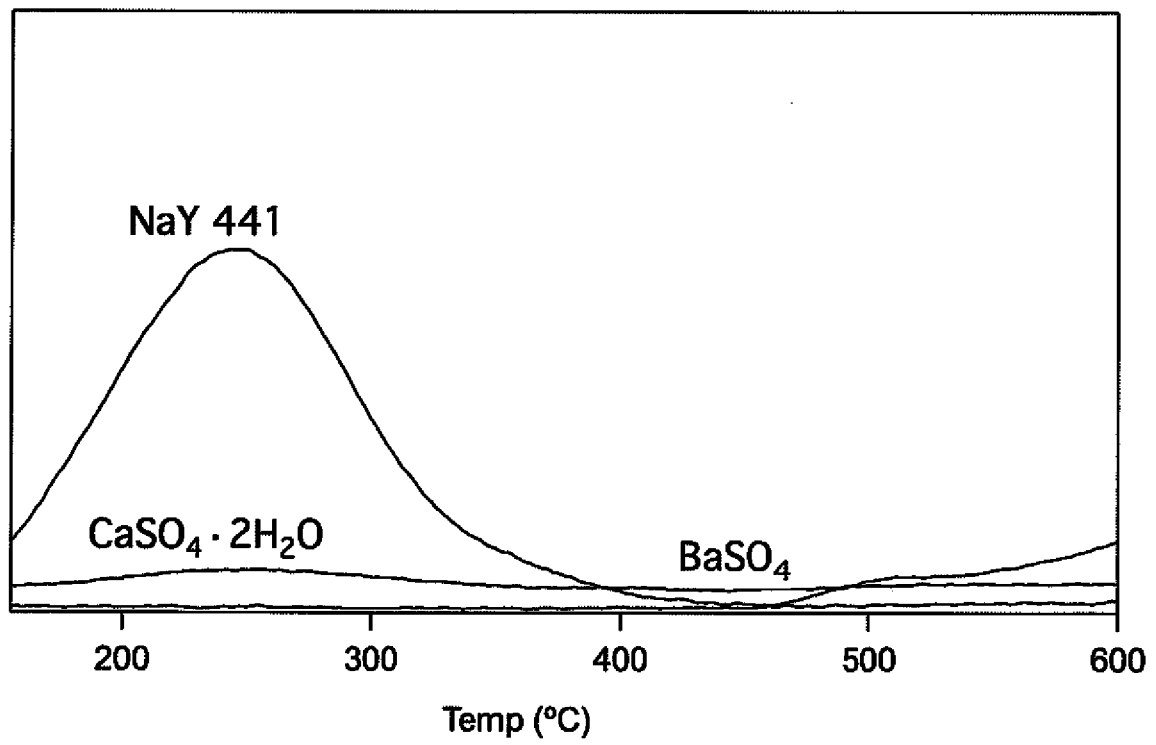


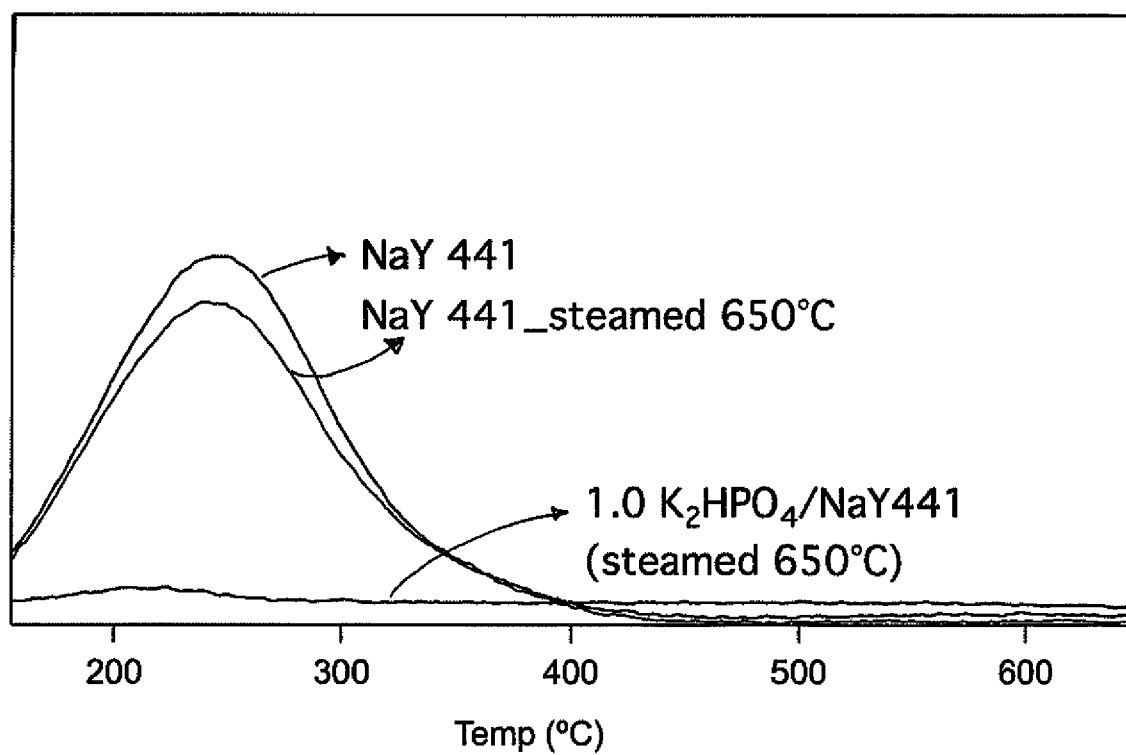
FIG 17

FIG 18

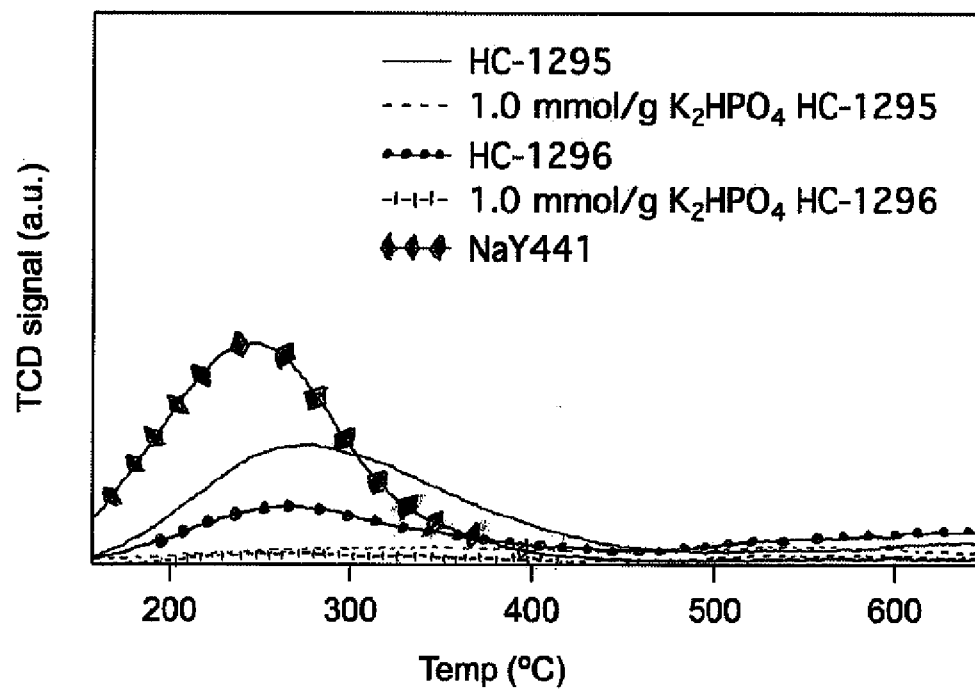


FIG. 19

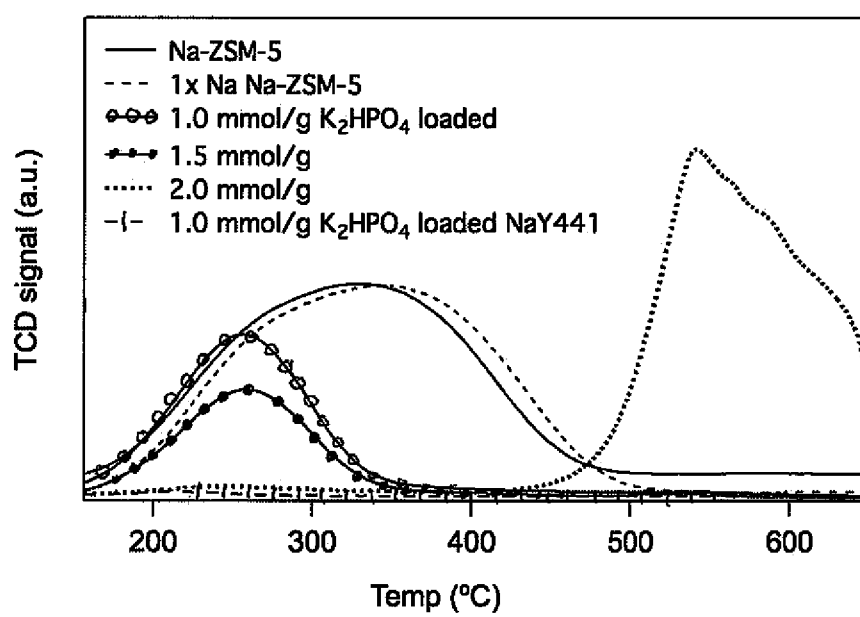


FIG. 20

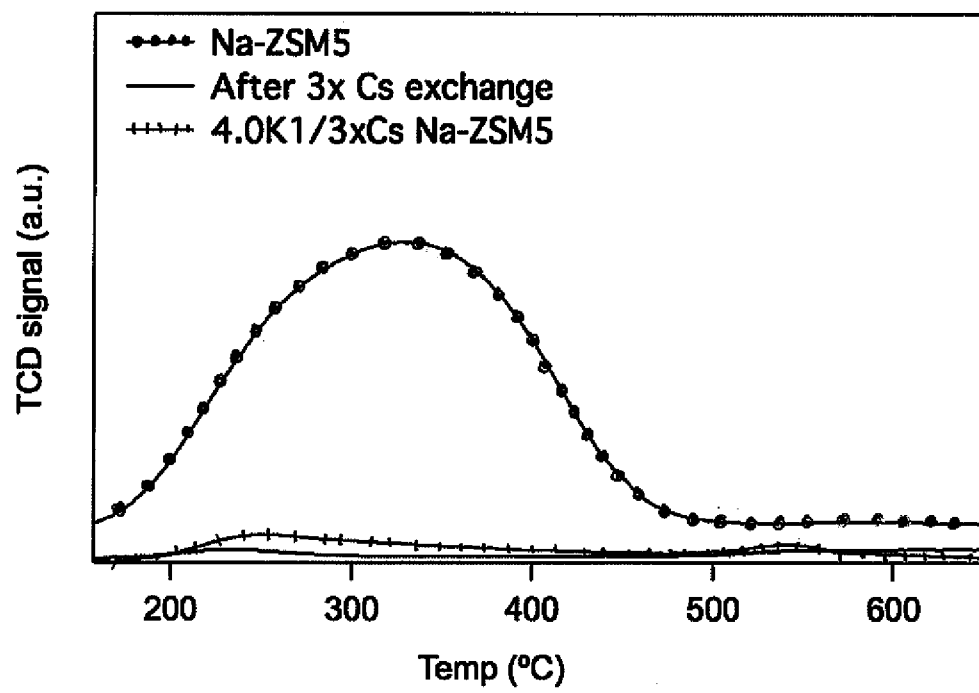


FIG. 21

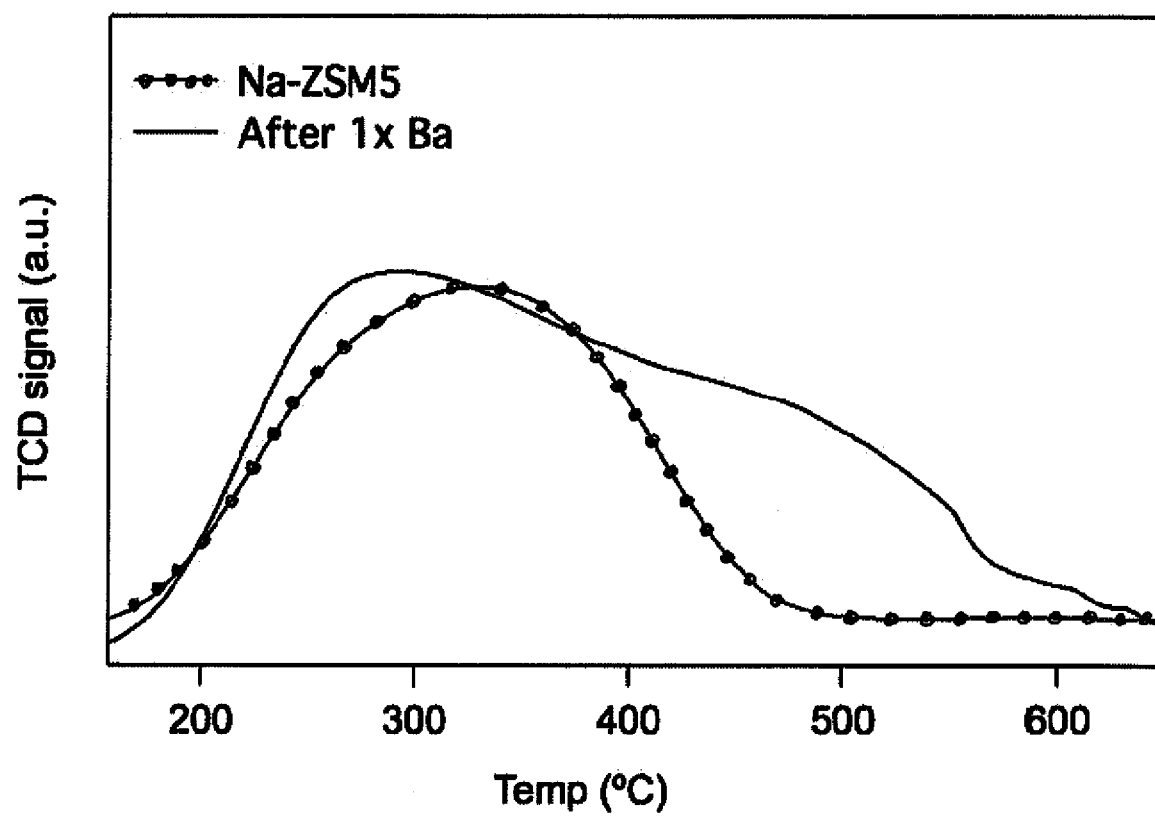


FIG. 22

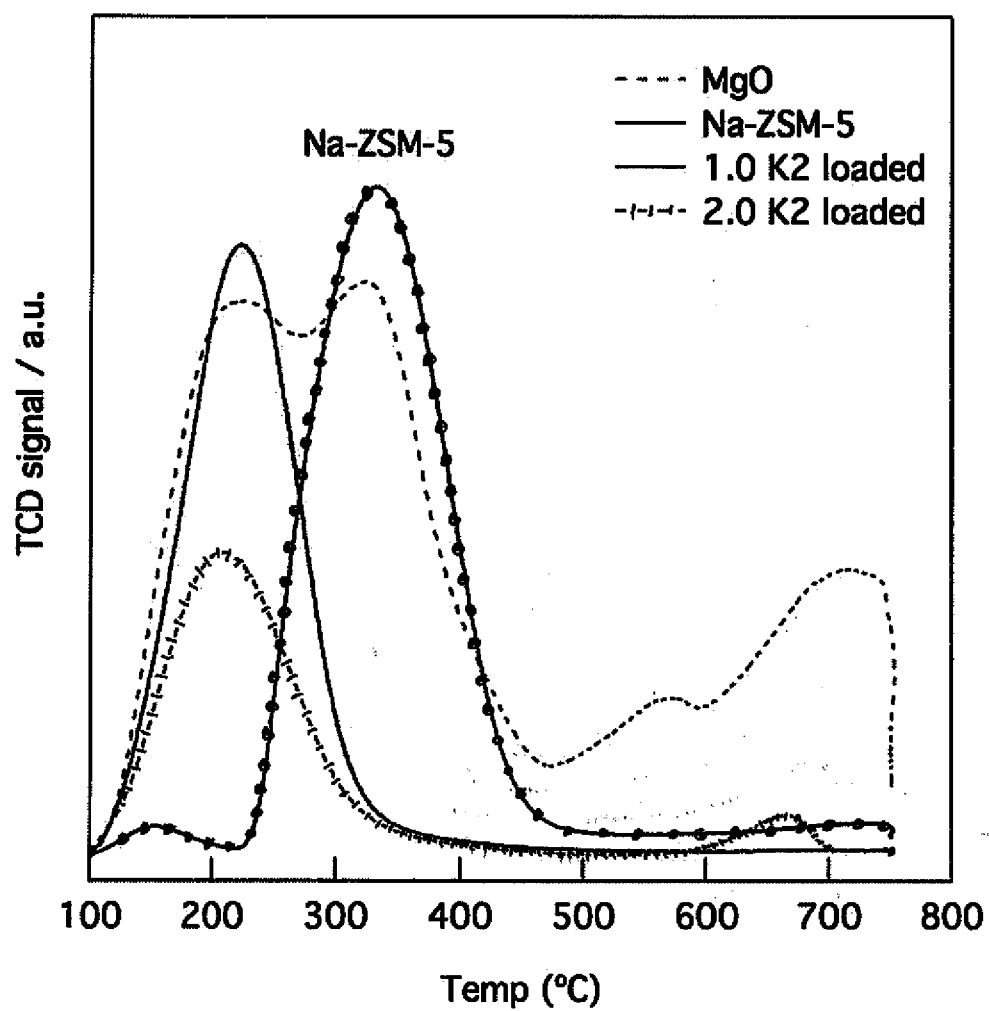


FIG. 23

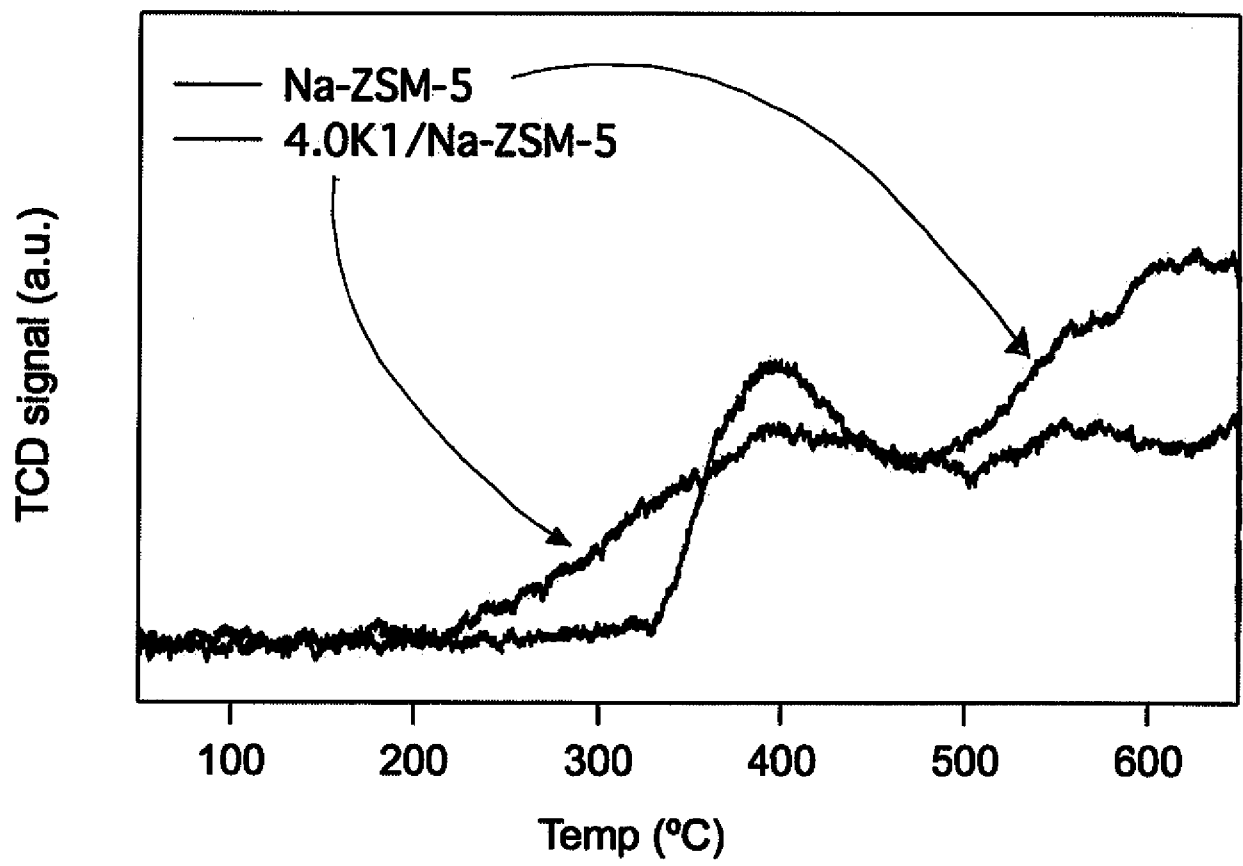


FIG. 24

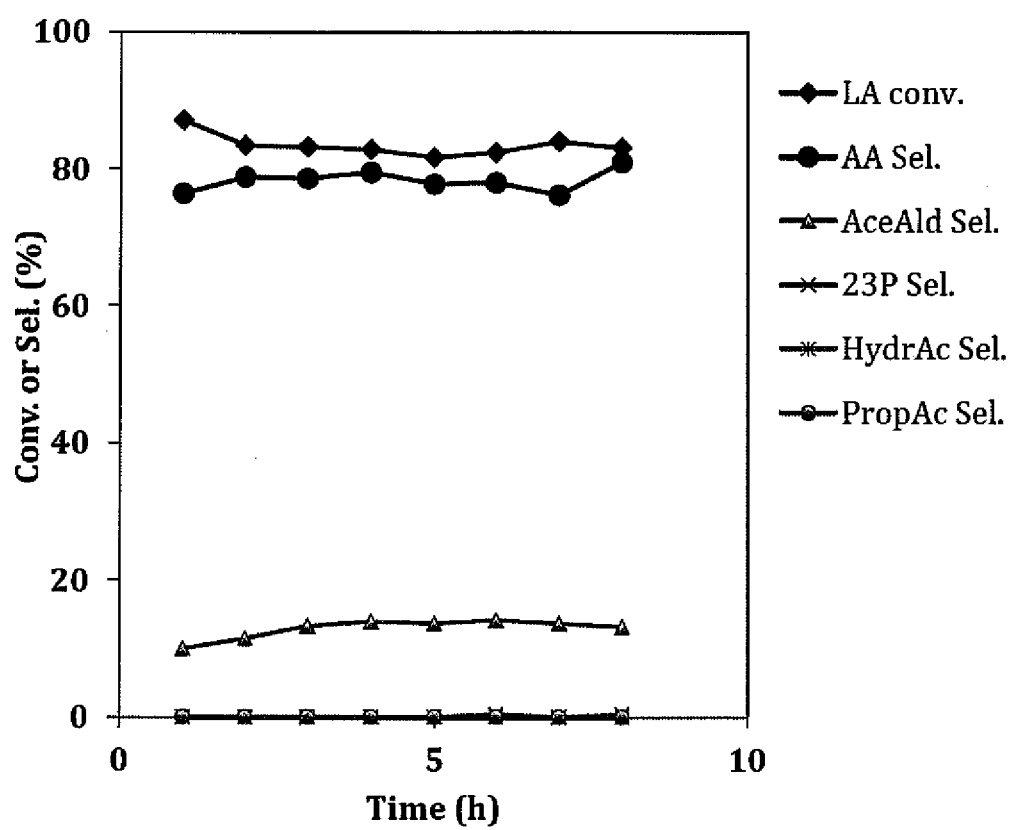


FIG. 25

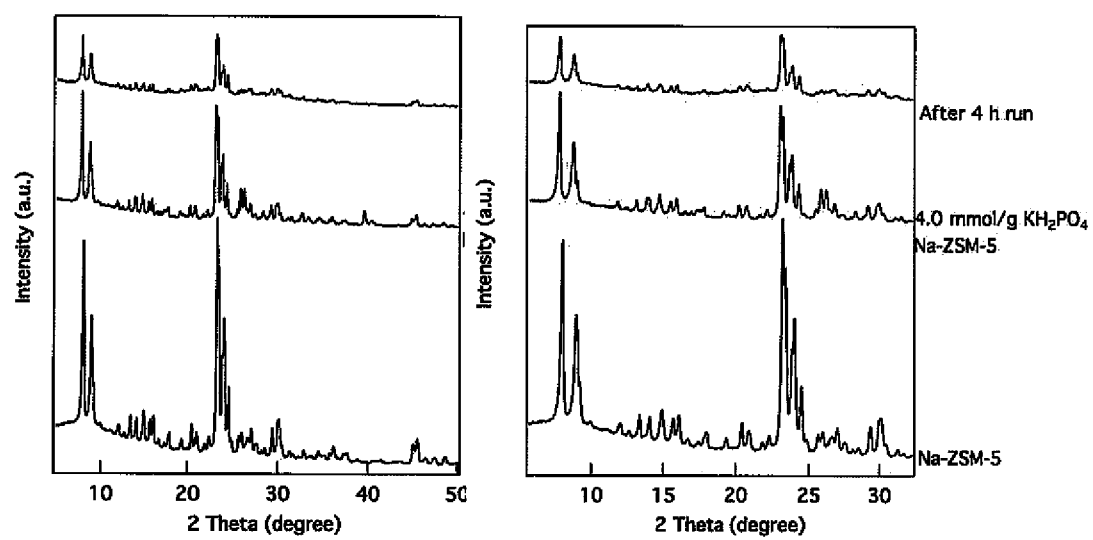


FIG. 26

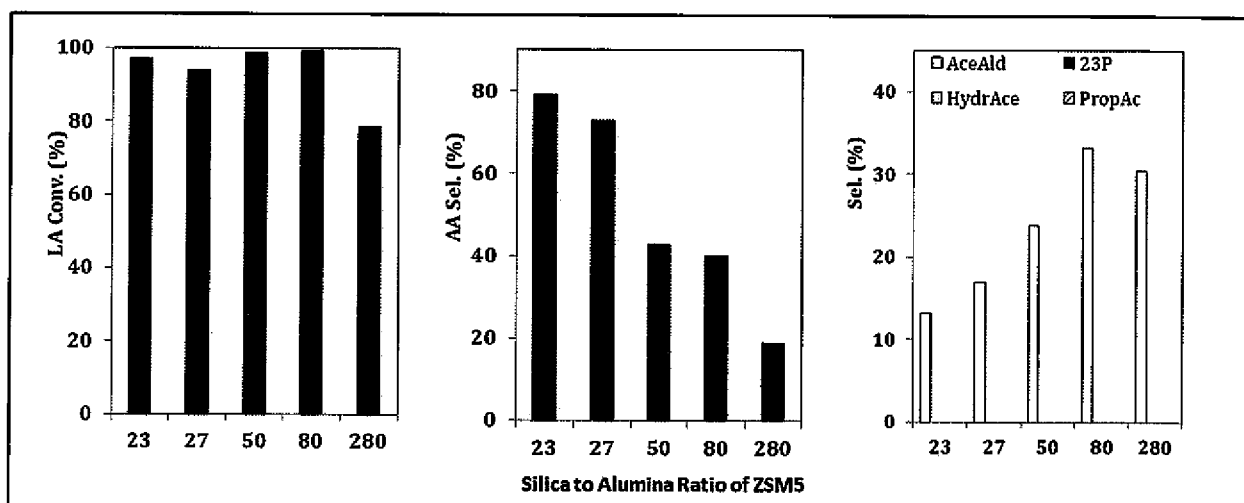


FIG. 27

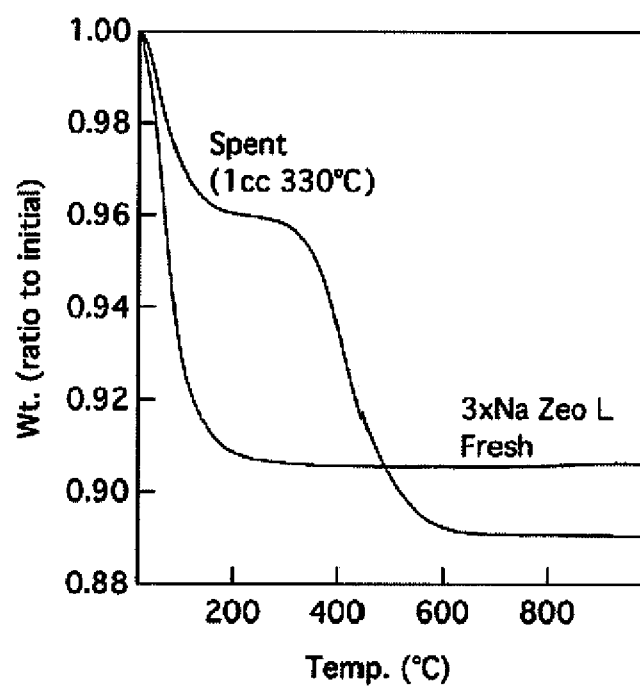


FIG. 28

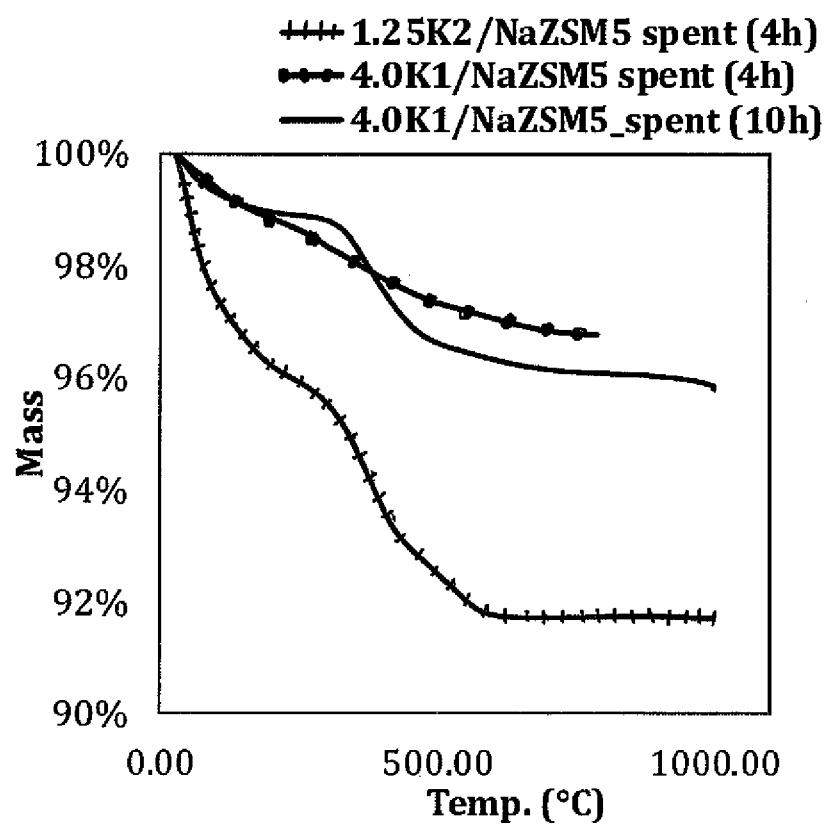


FIG. 29

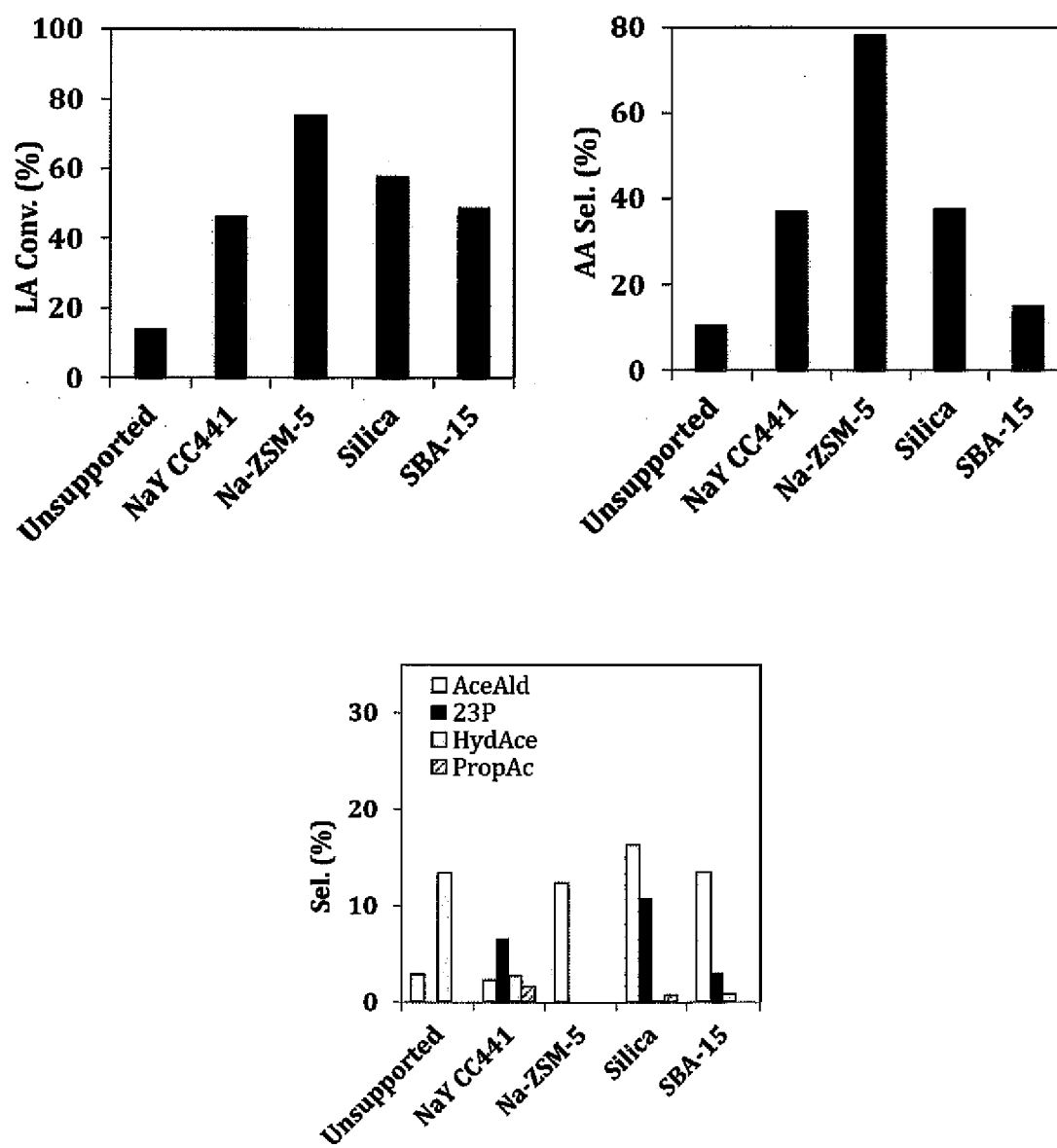


FIG. 30

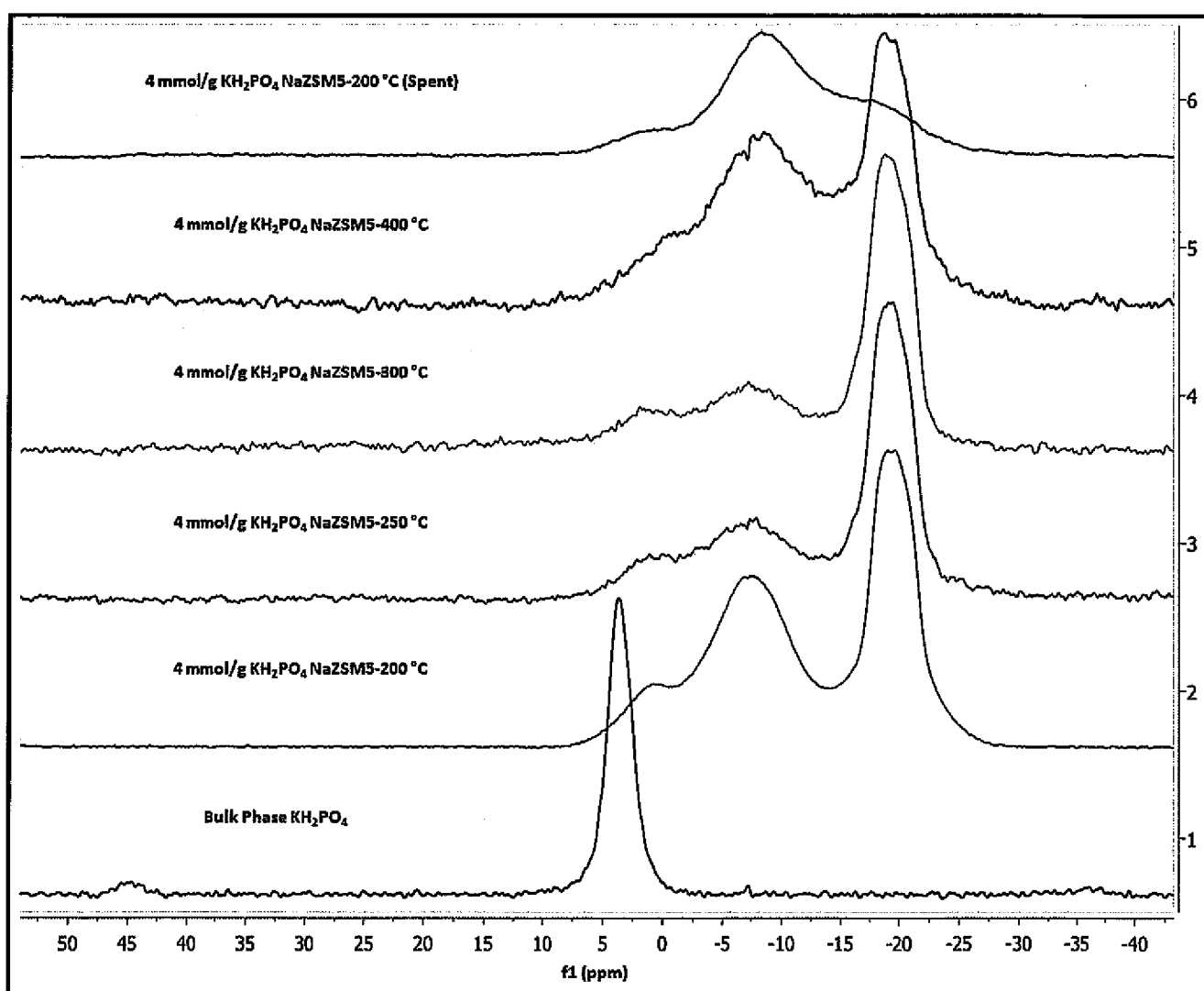
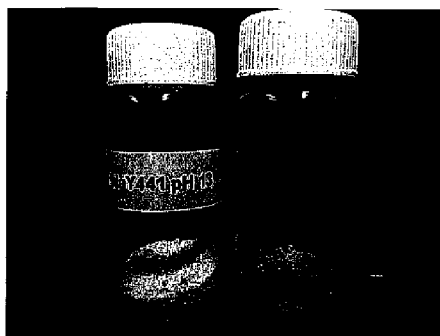


FIG. 31

Fresh and Spent Catalyst

1.0 K2 (pH13)/NaY441



1.25 K2/NaZSM5



4.0 K1/NaZSM5

