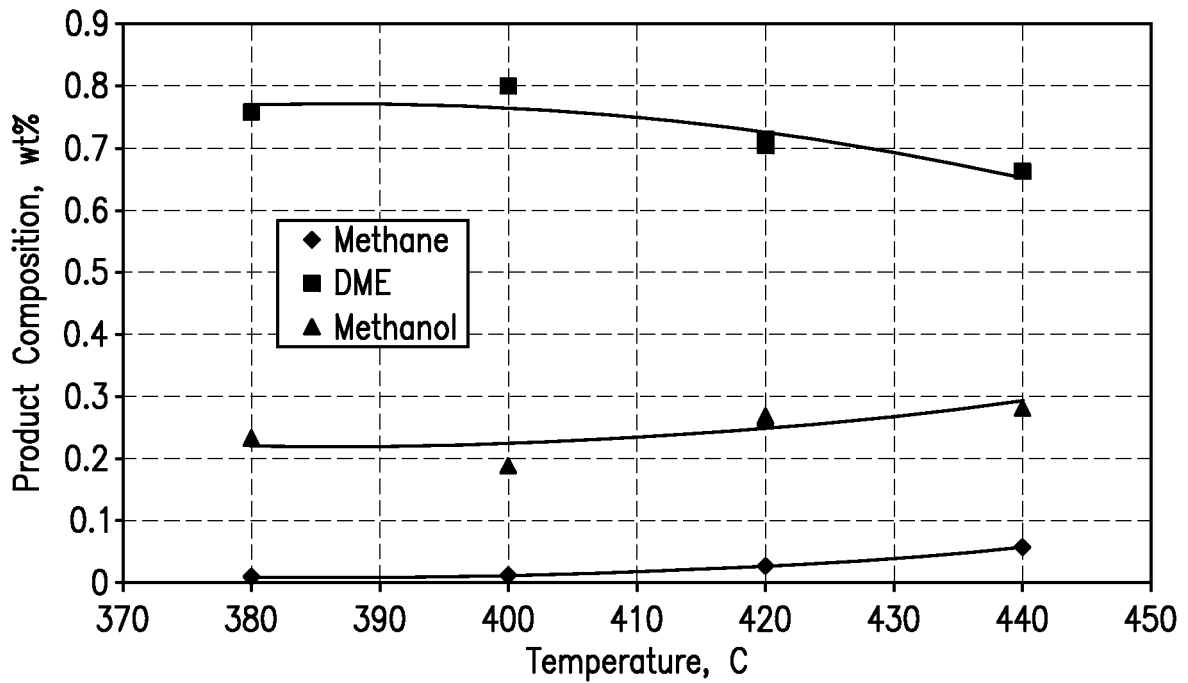
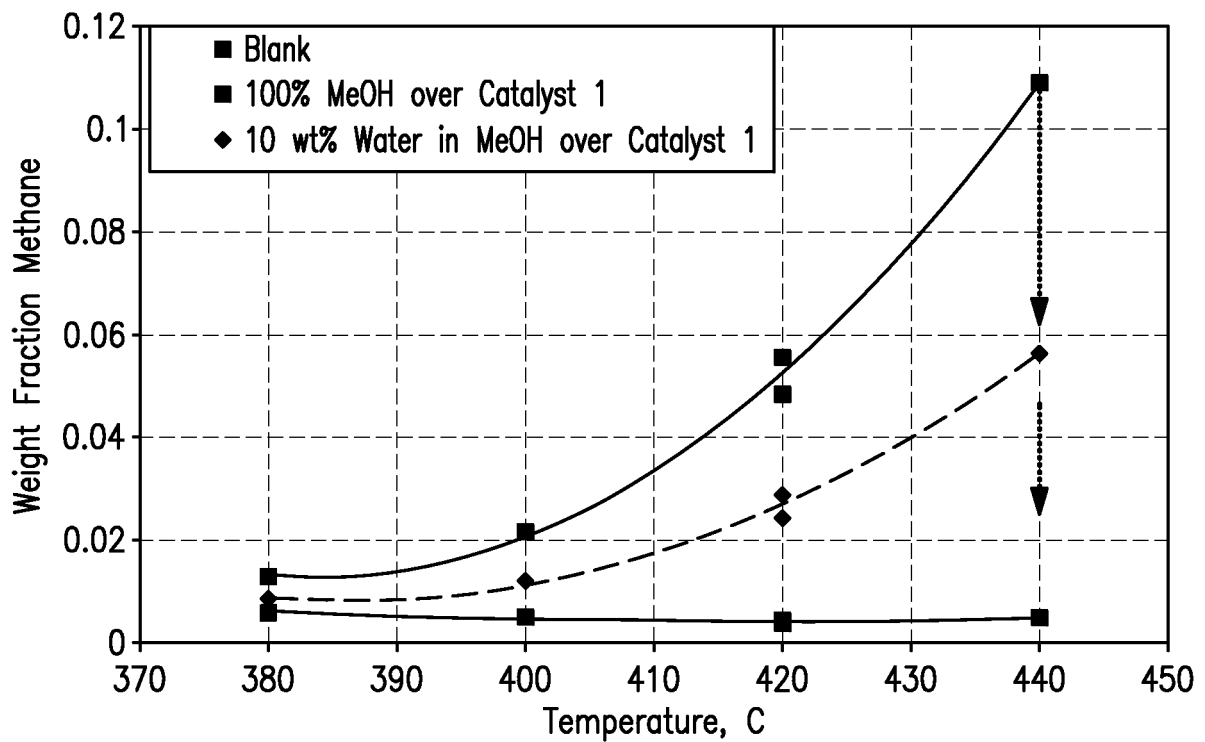


1/6

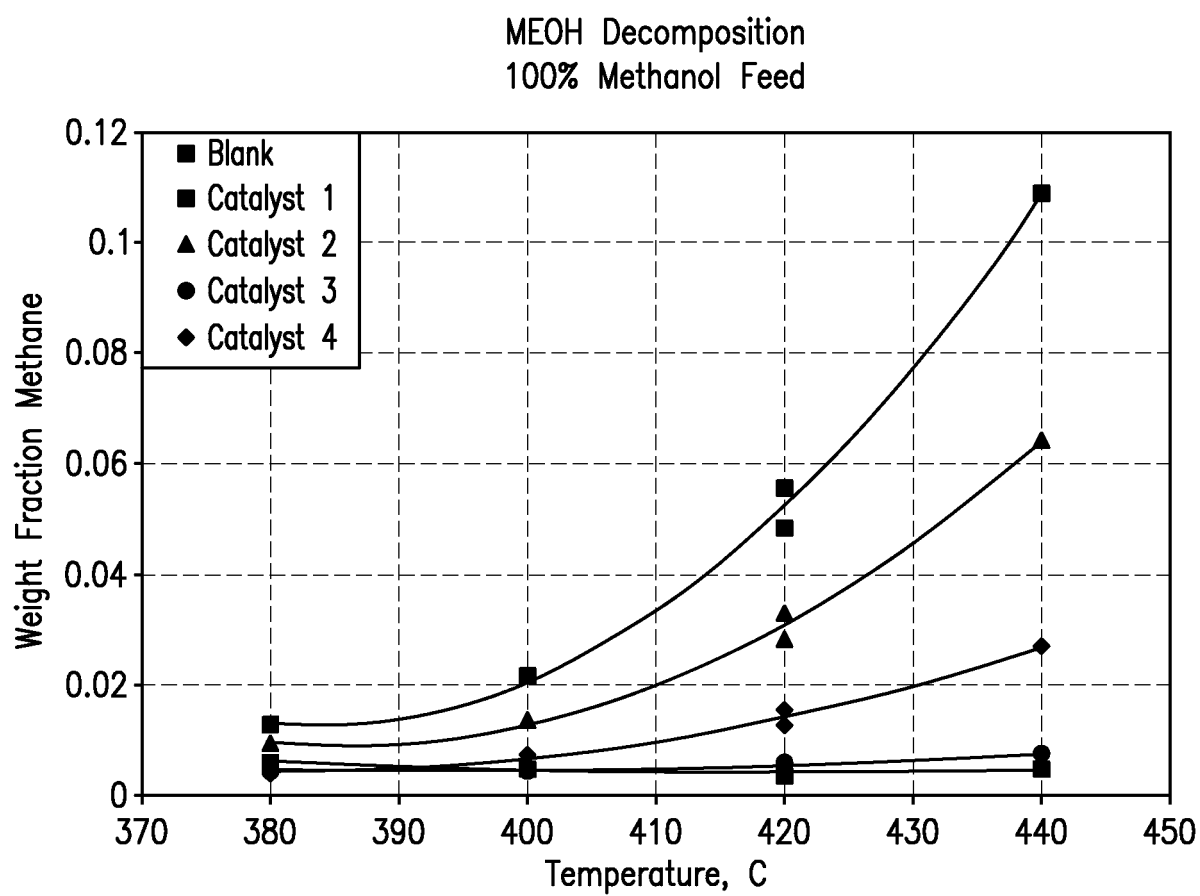
MEOH Decomposition over Catalyst 1
100% MEOH at 55 psig

**FIG. 1**

MEOH Decomposition

**FIG. 2**

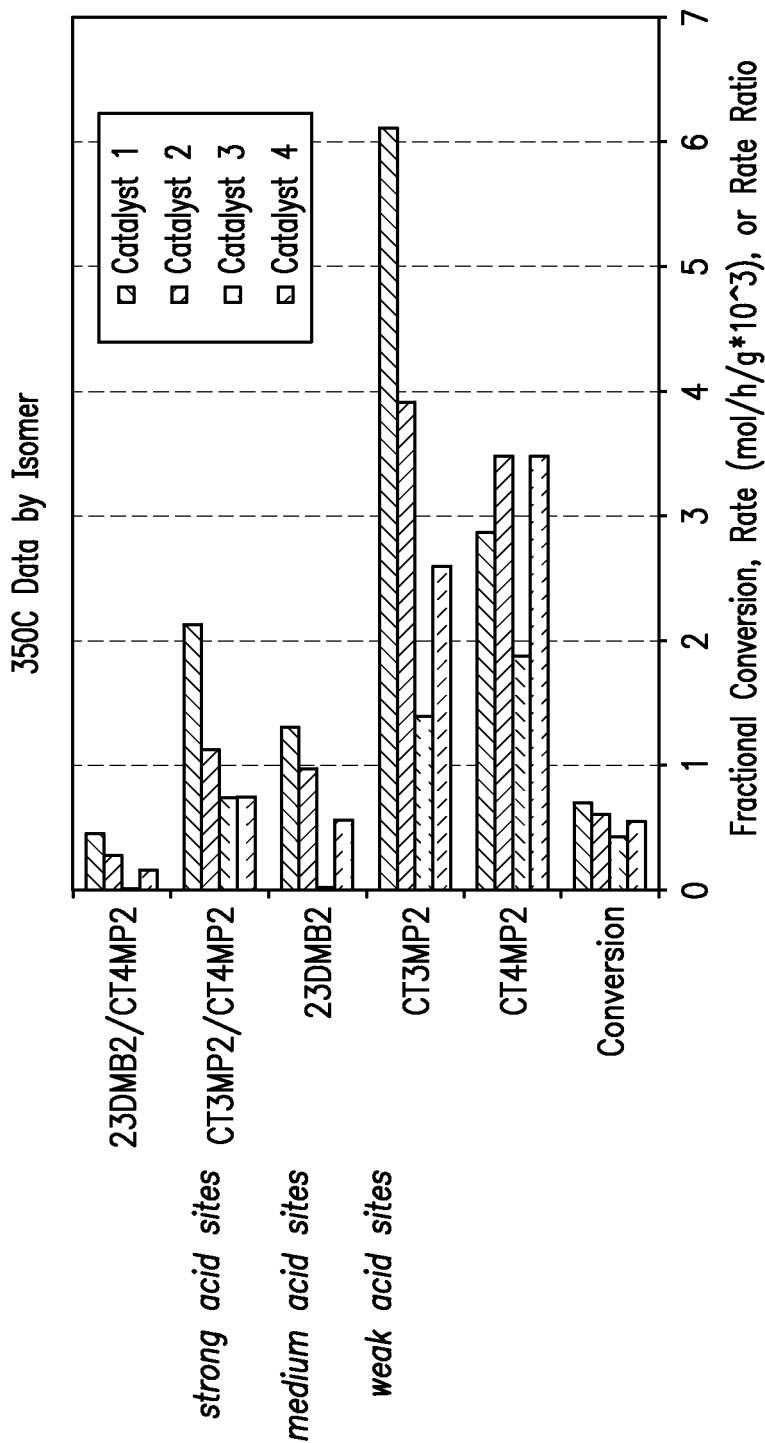
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**FIG. 3**

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2-methyl-2-pentene Test Results on Alumina Supports

T = 350°C

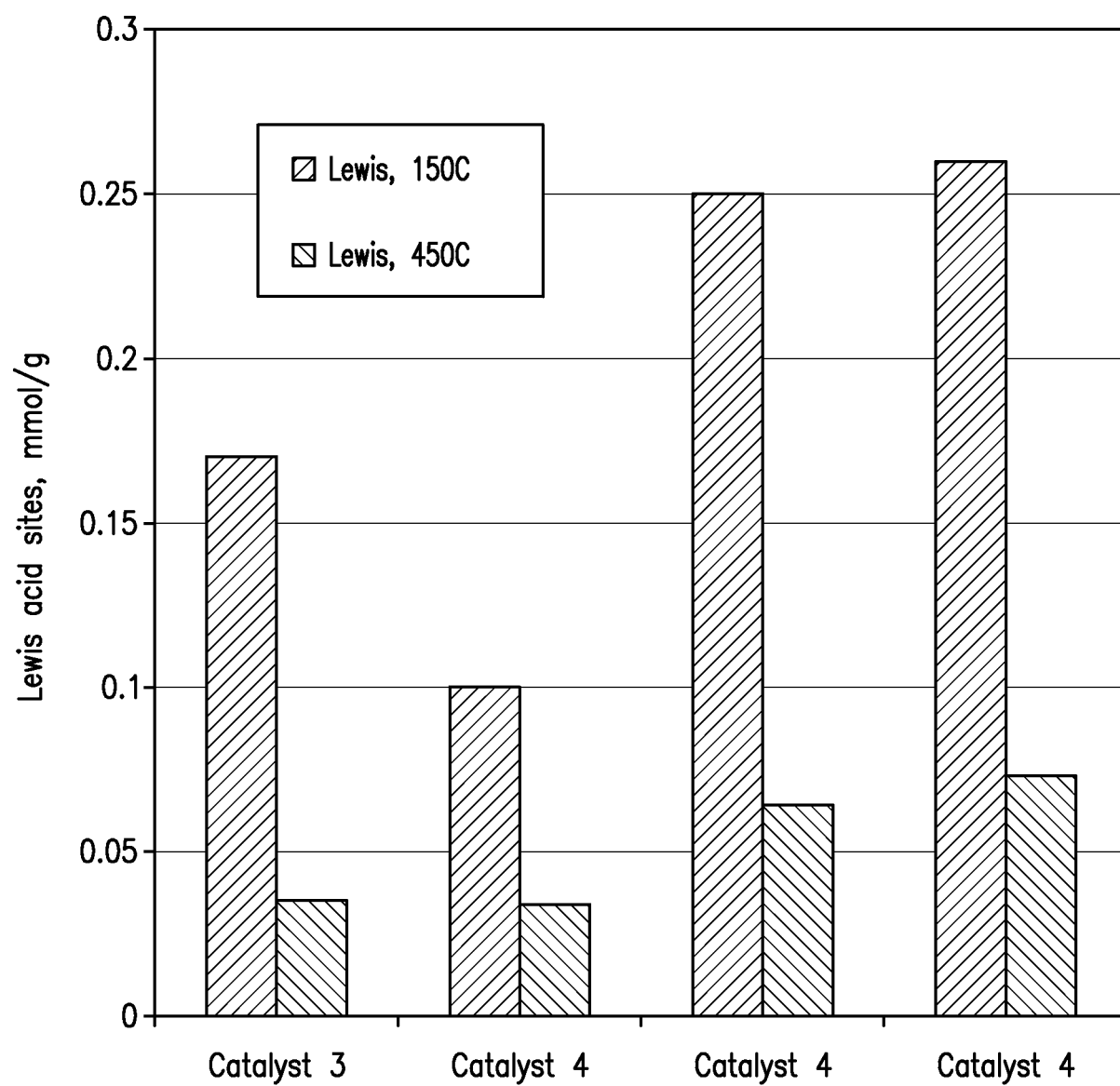


- Catalyst 1 is the most acidic alumina with ~ 50%+ more medium and strong acid sites
- Catalyst 3 has almost no strong acid sites and less acid sites overall than the other aluminas
- Overall acidity comparison

Catalyst 1 > Catalyst 2 > Catalyst 4 > Catalyst 3

FIG. 4

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**FIG. 5**

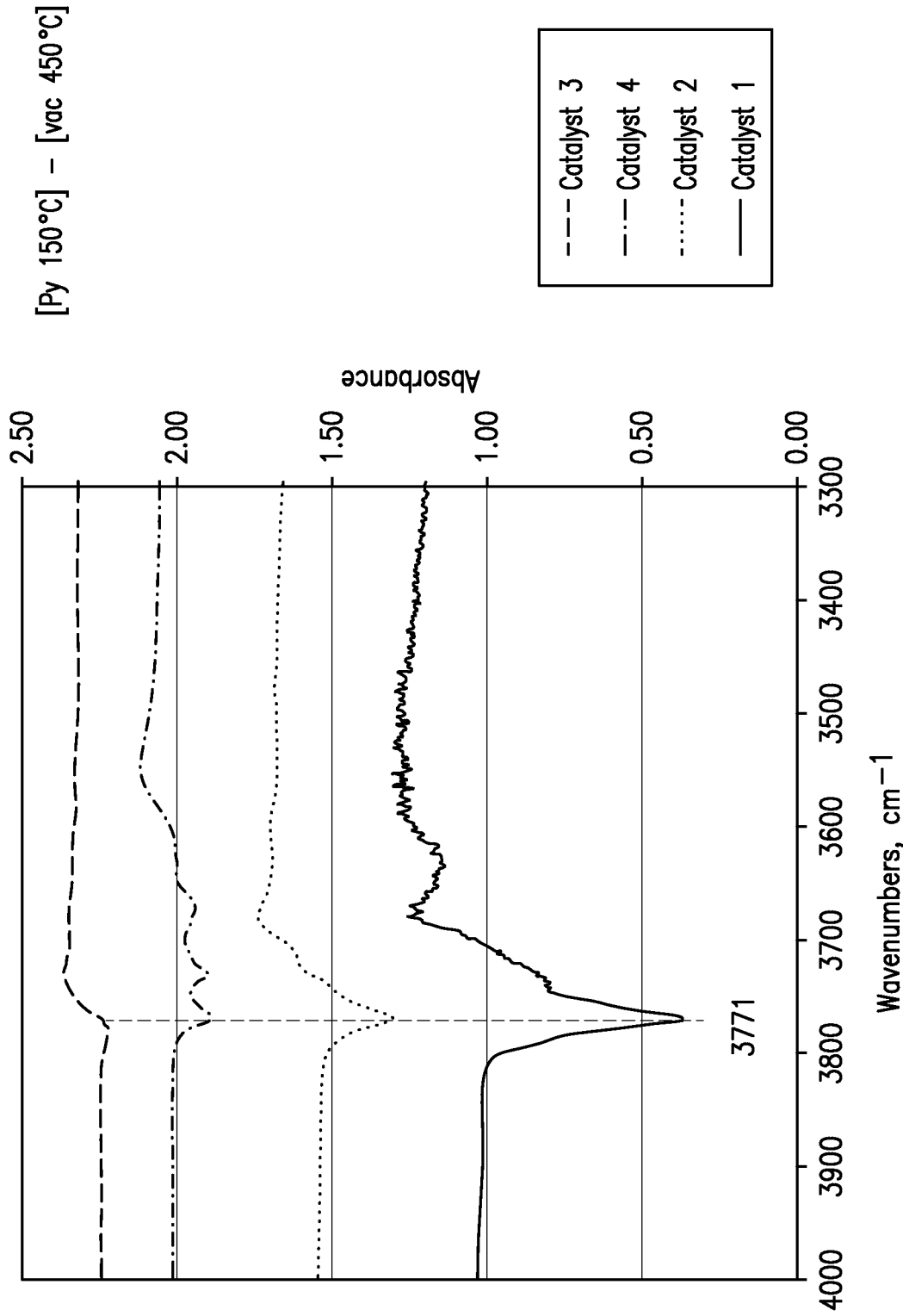


FIG. 6

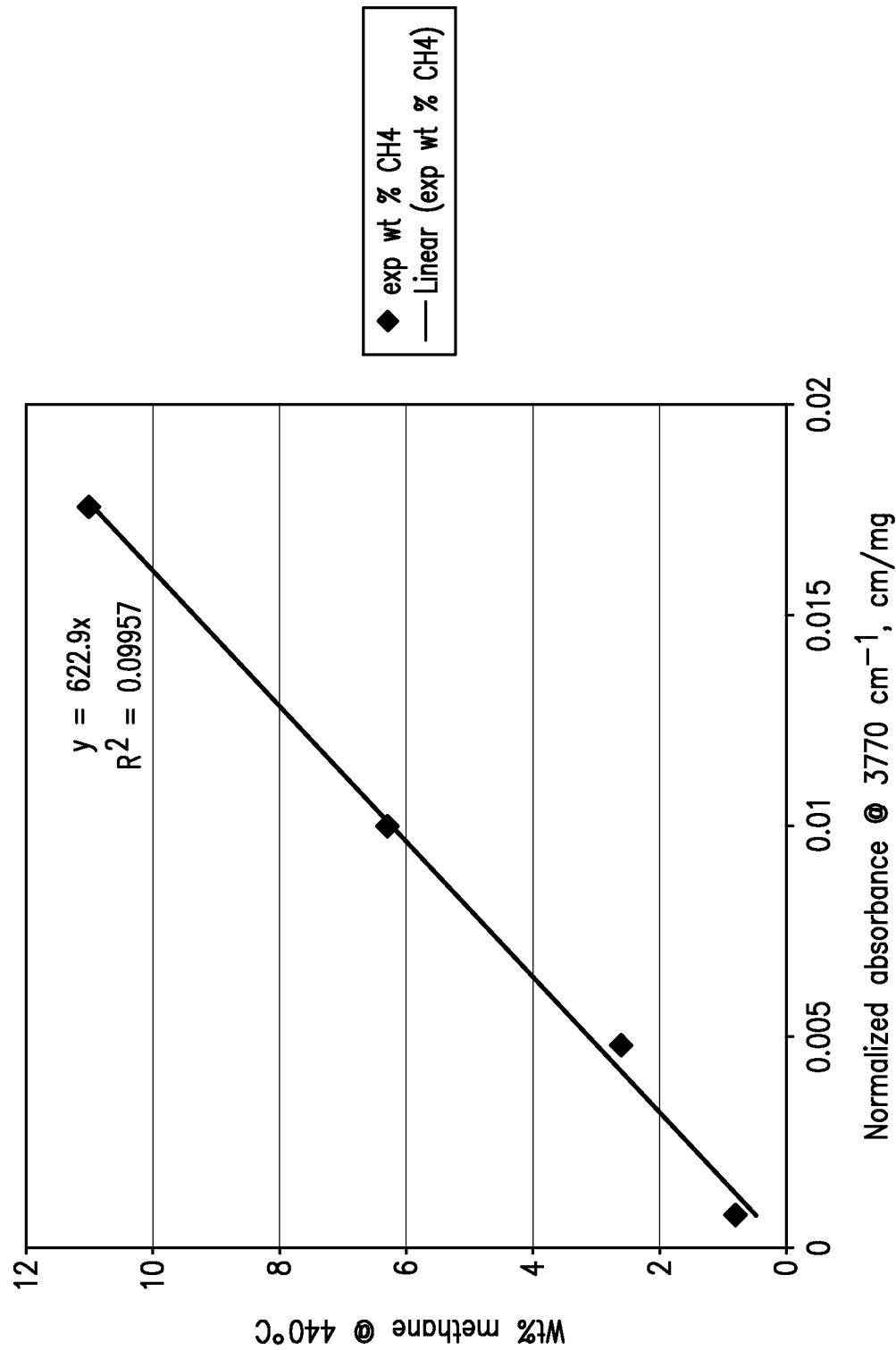


FIG. 7