

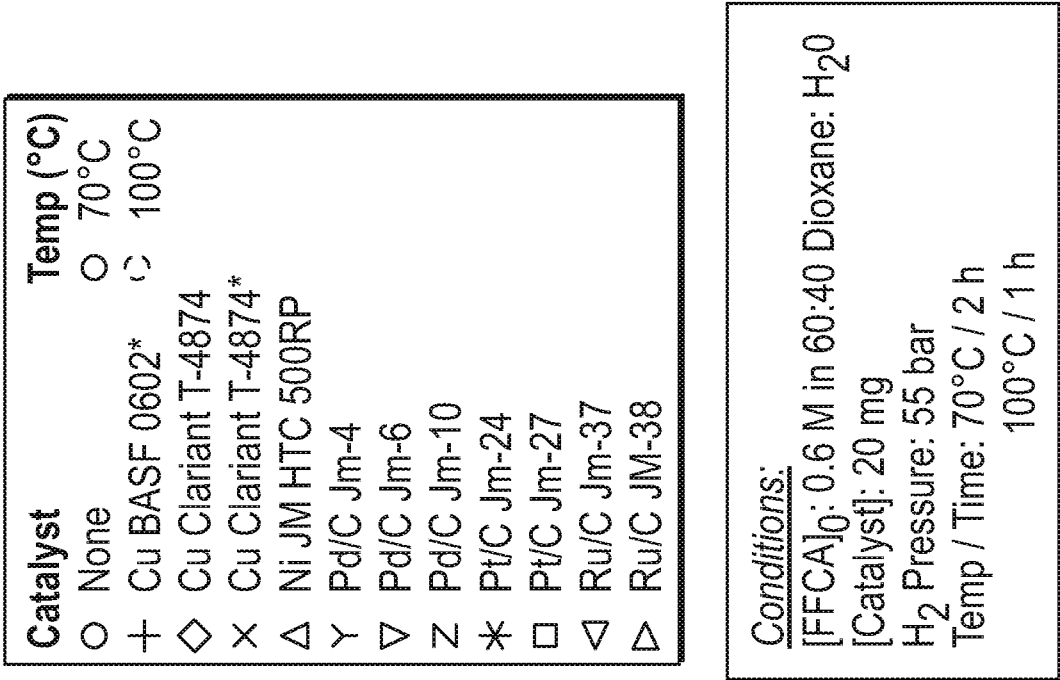


FIG. 1

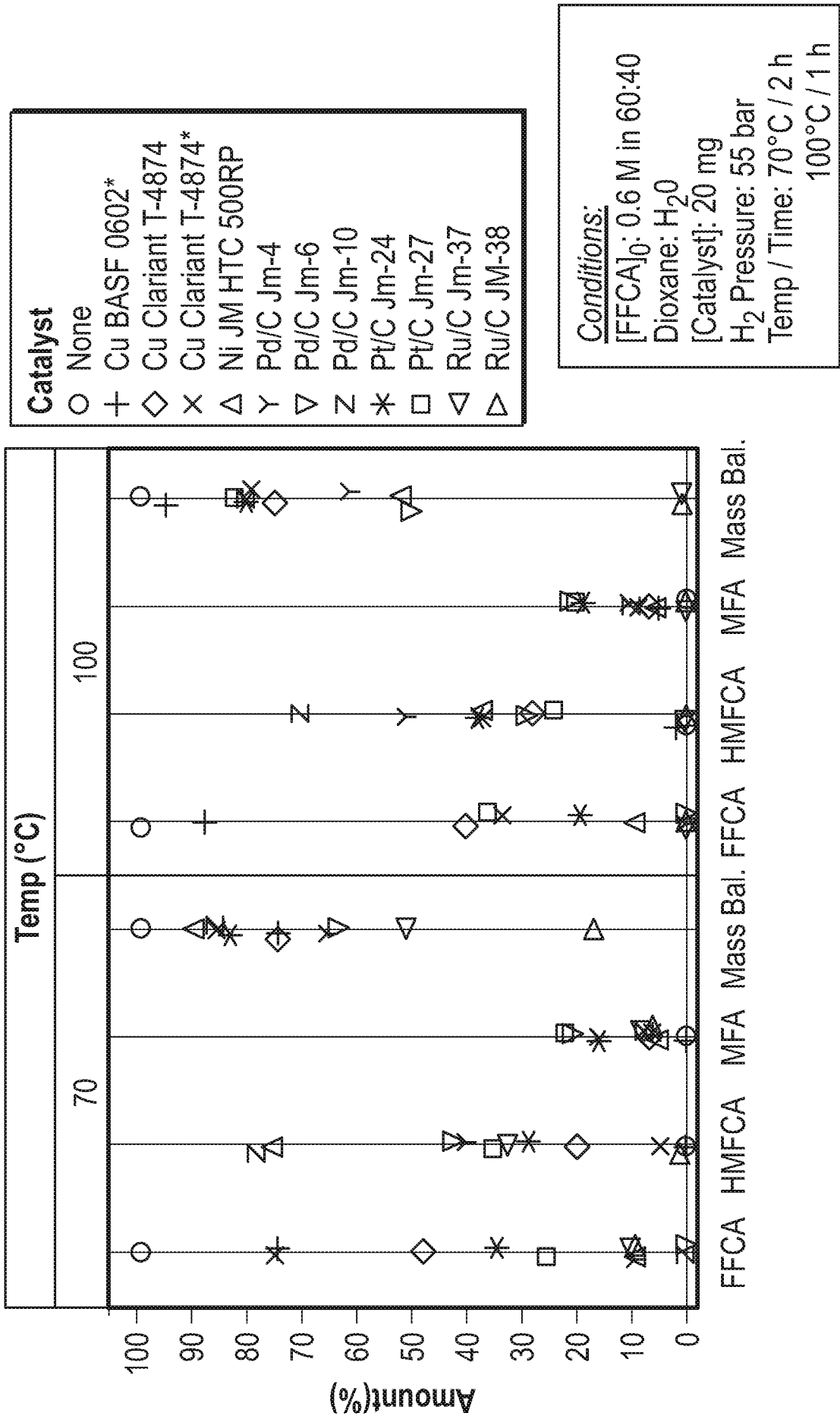


FIG. 2

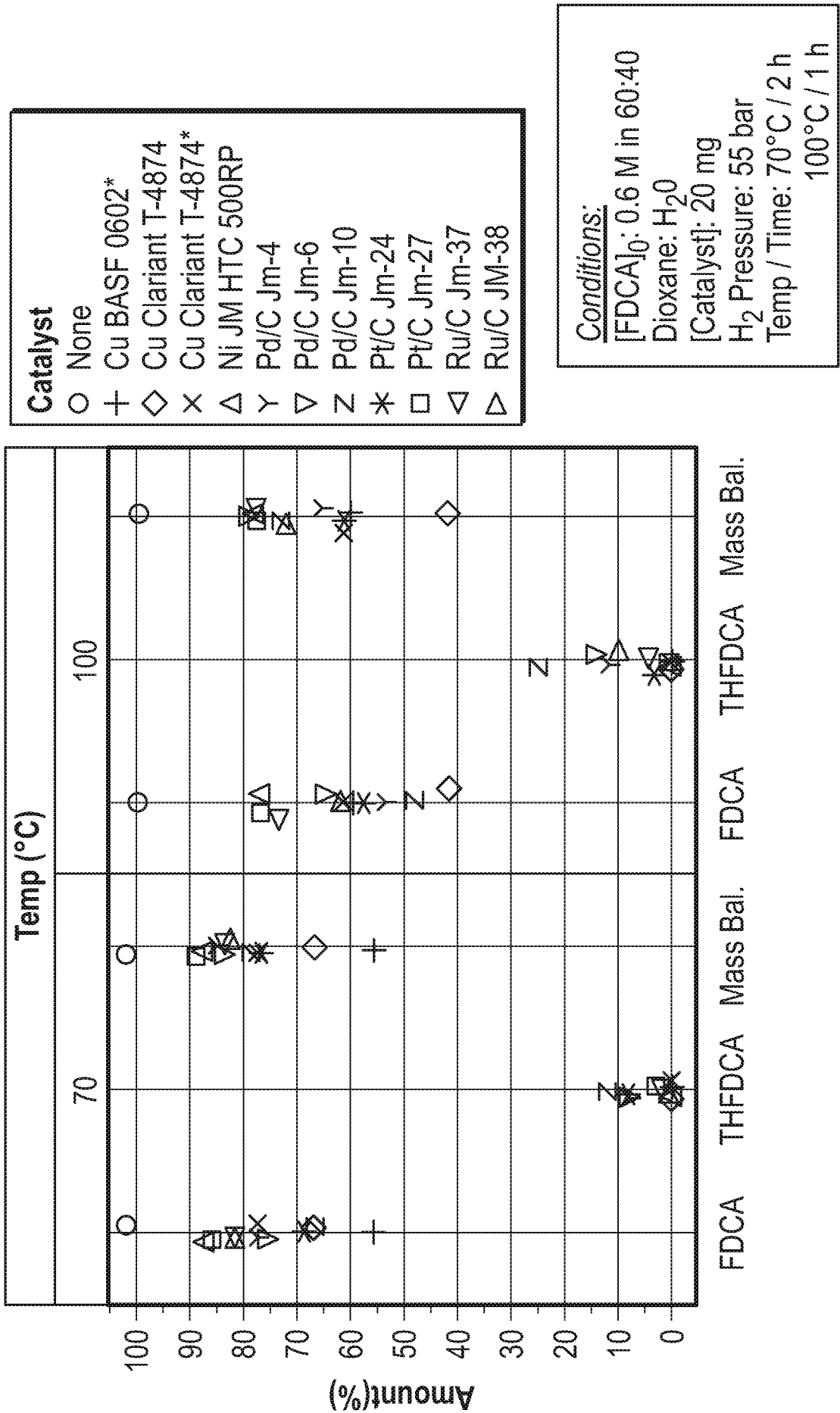


FIG. 3

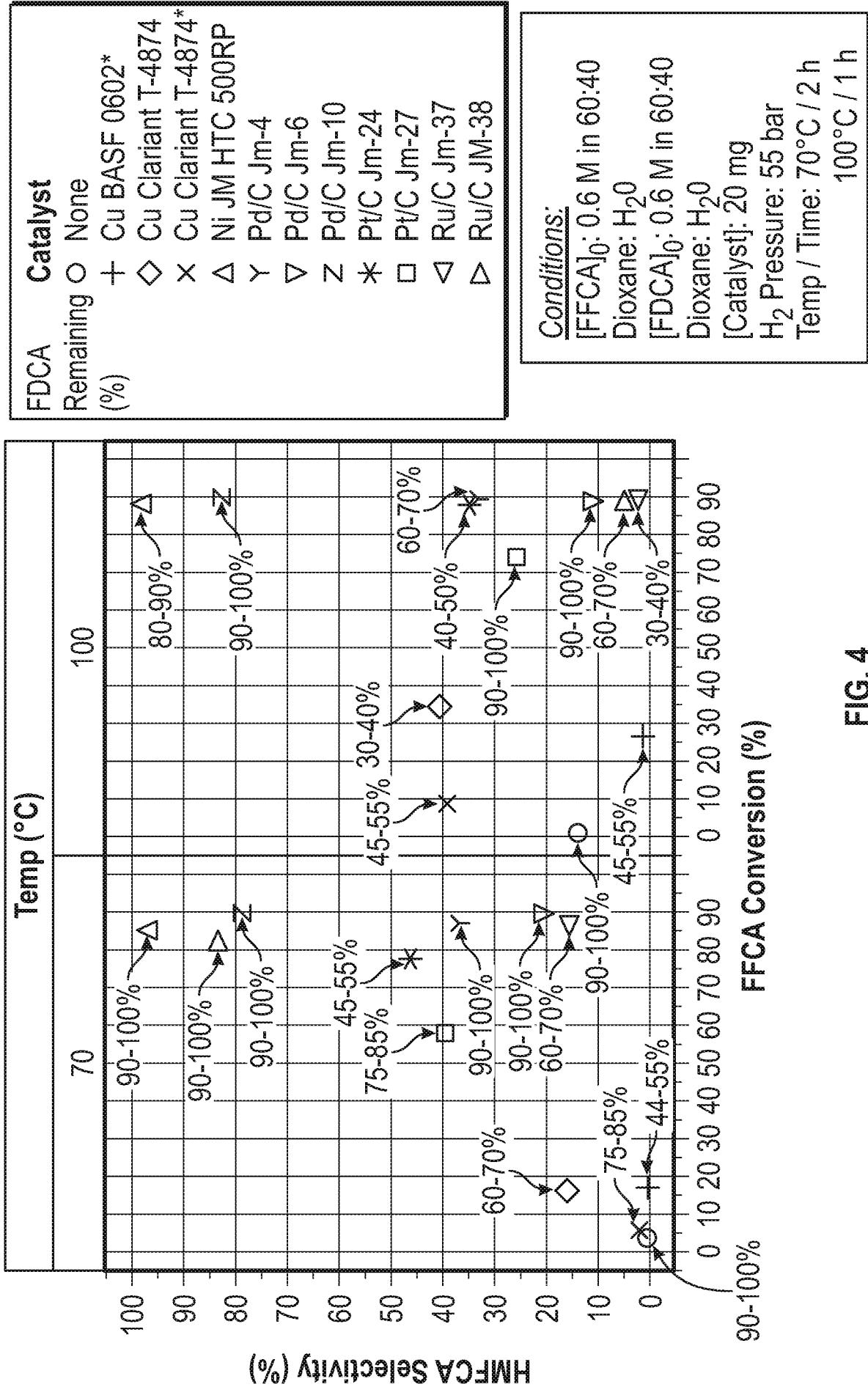
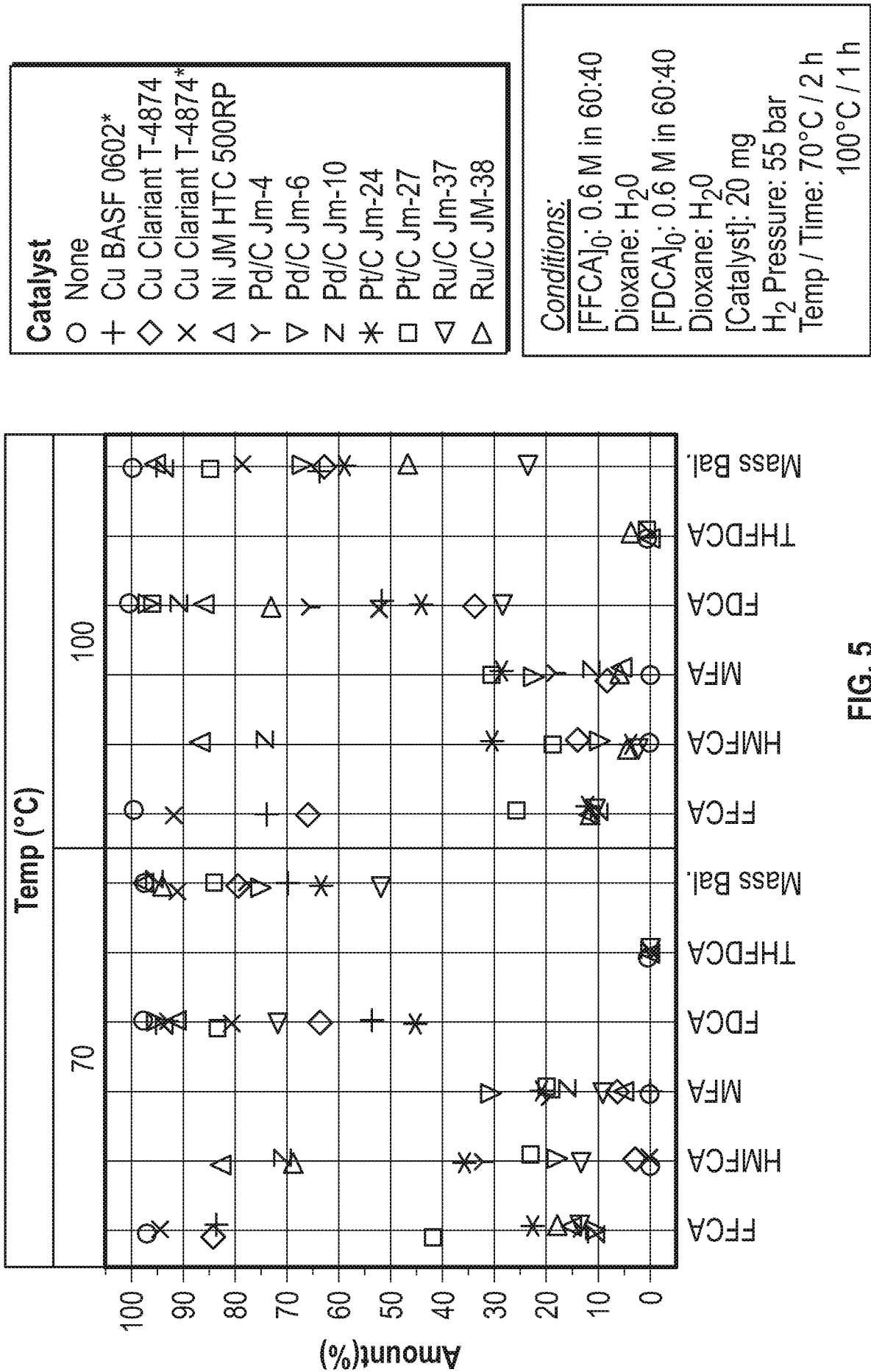
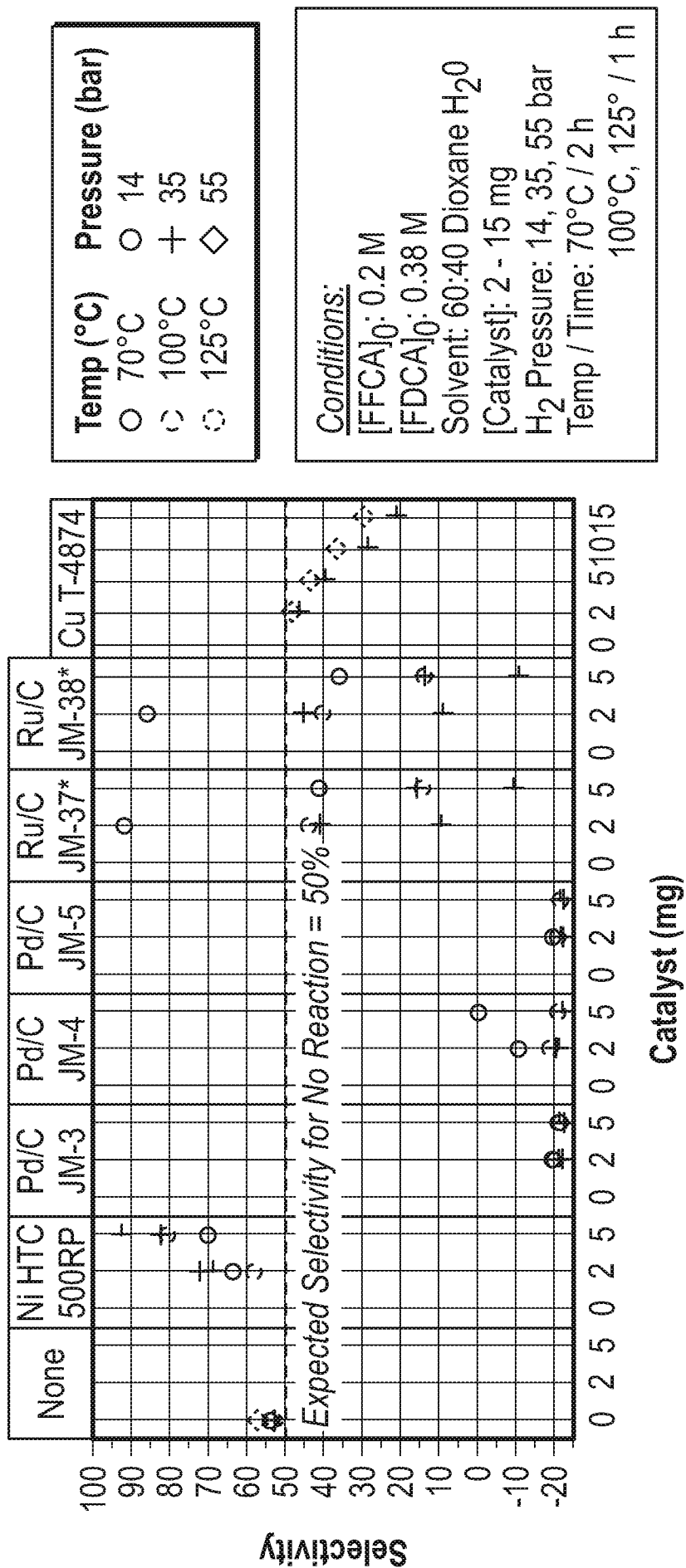
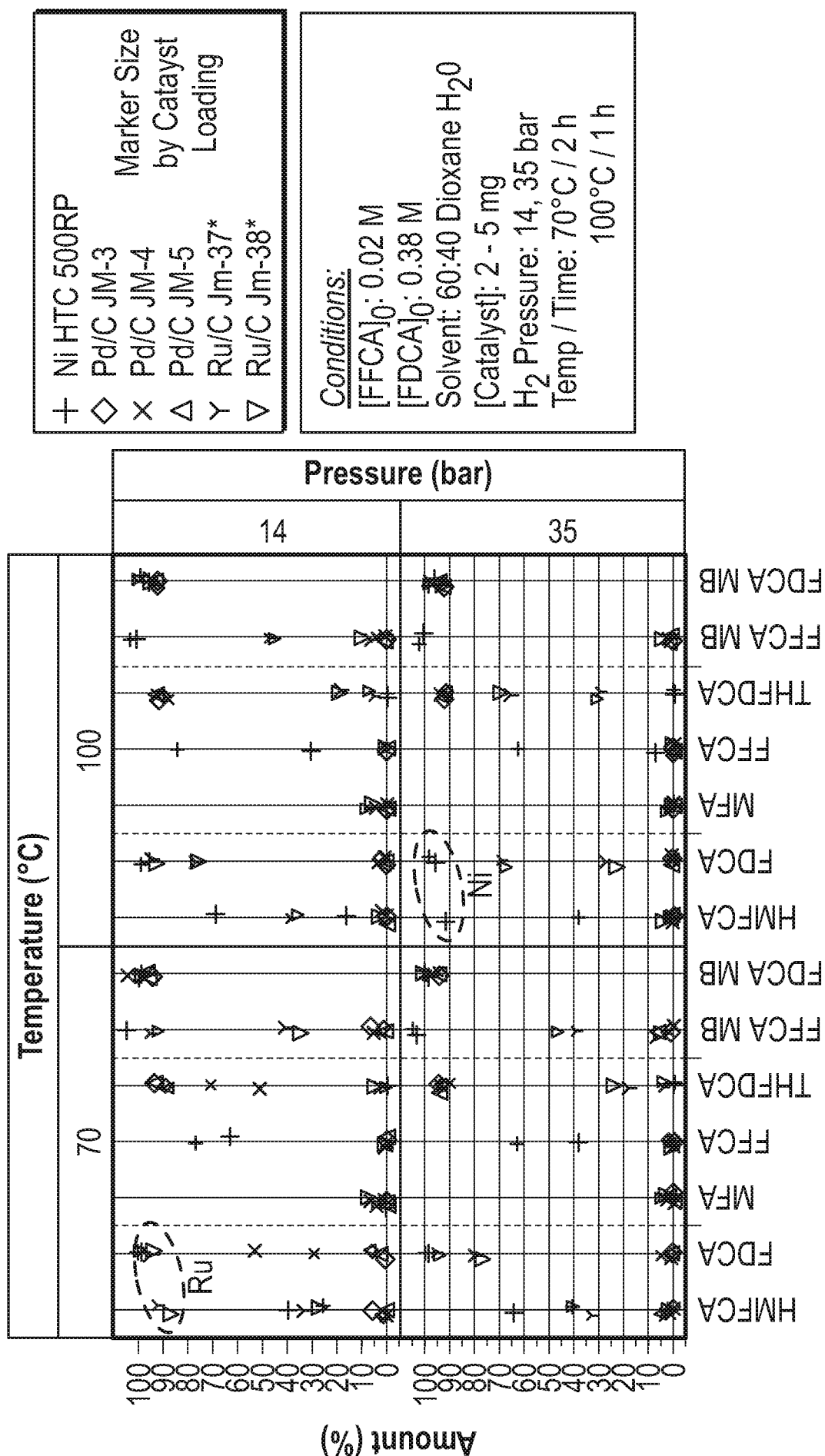


FIG. 4





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Marker Size
by Catalyst
Loading

Z Cu T-4874

Conditions:
[FFCA]₀: 0.02 M
[FDCA]₀: 0.38 M
Solvent: 60:40 Dioxane H₂O
[Catalyst]: 2 - 15 mg
H₂ Pressure: 35, 55 bar
Temp / Time: 100°C, 125°C / 1 h

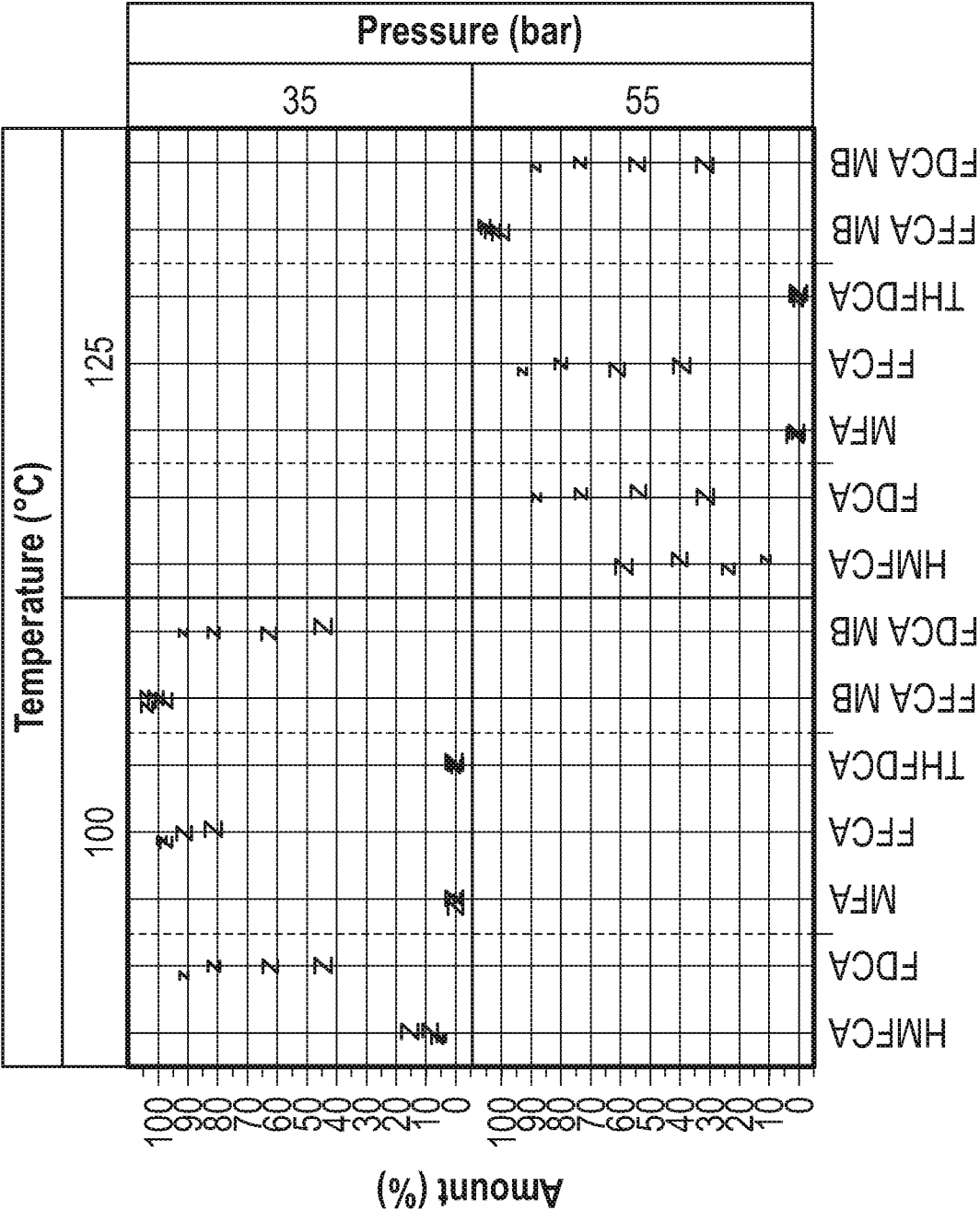


FIG. 8

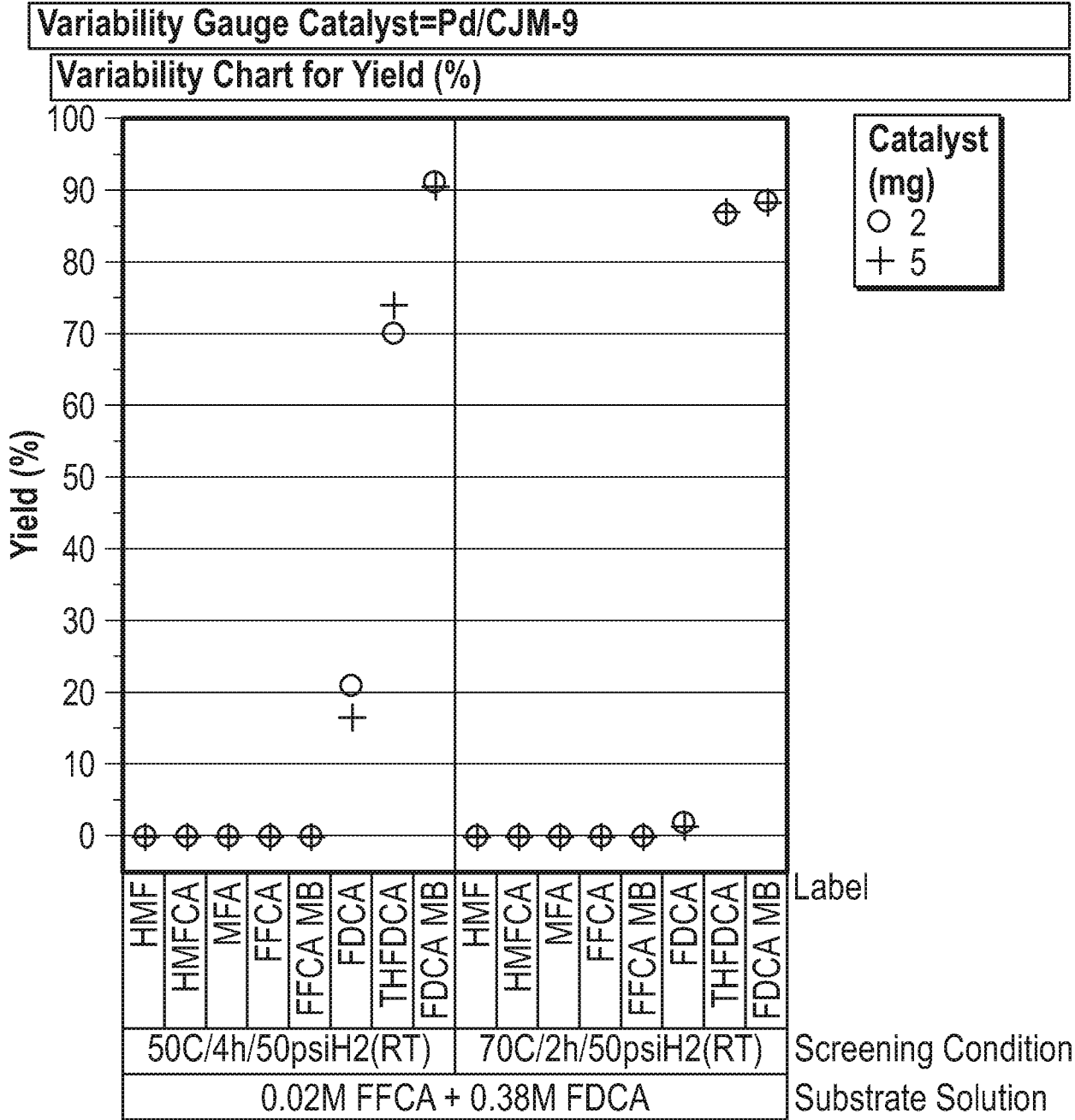


FIG. 9

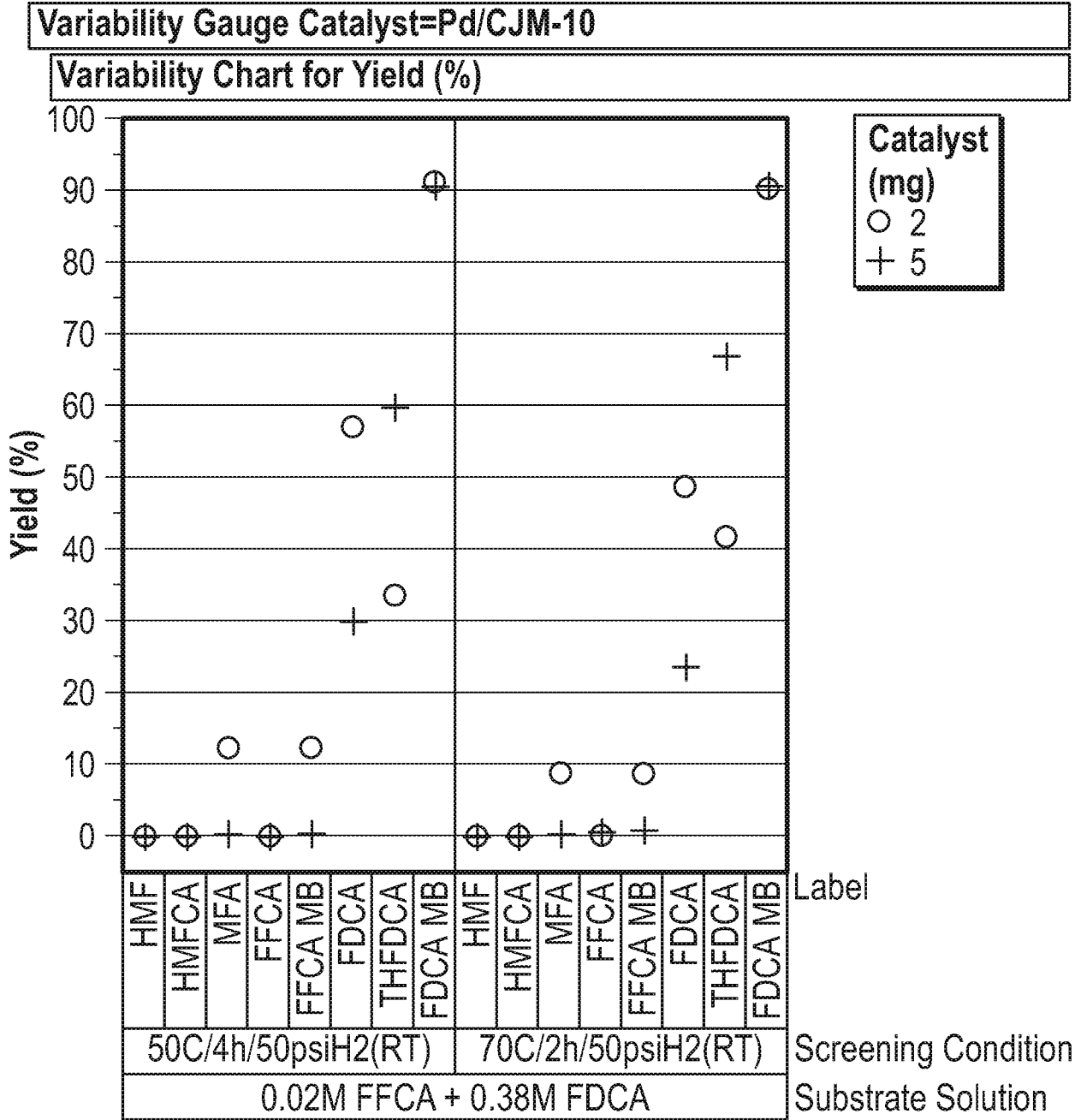


FIG. 10

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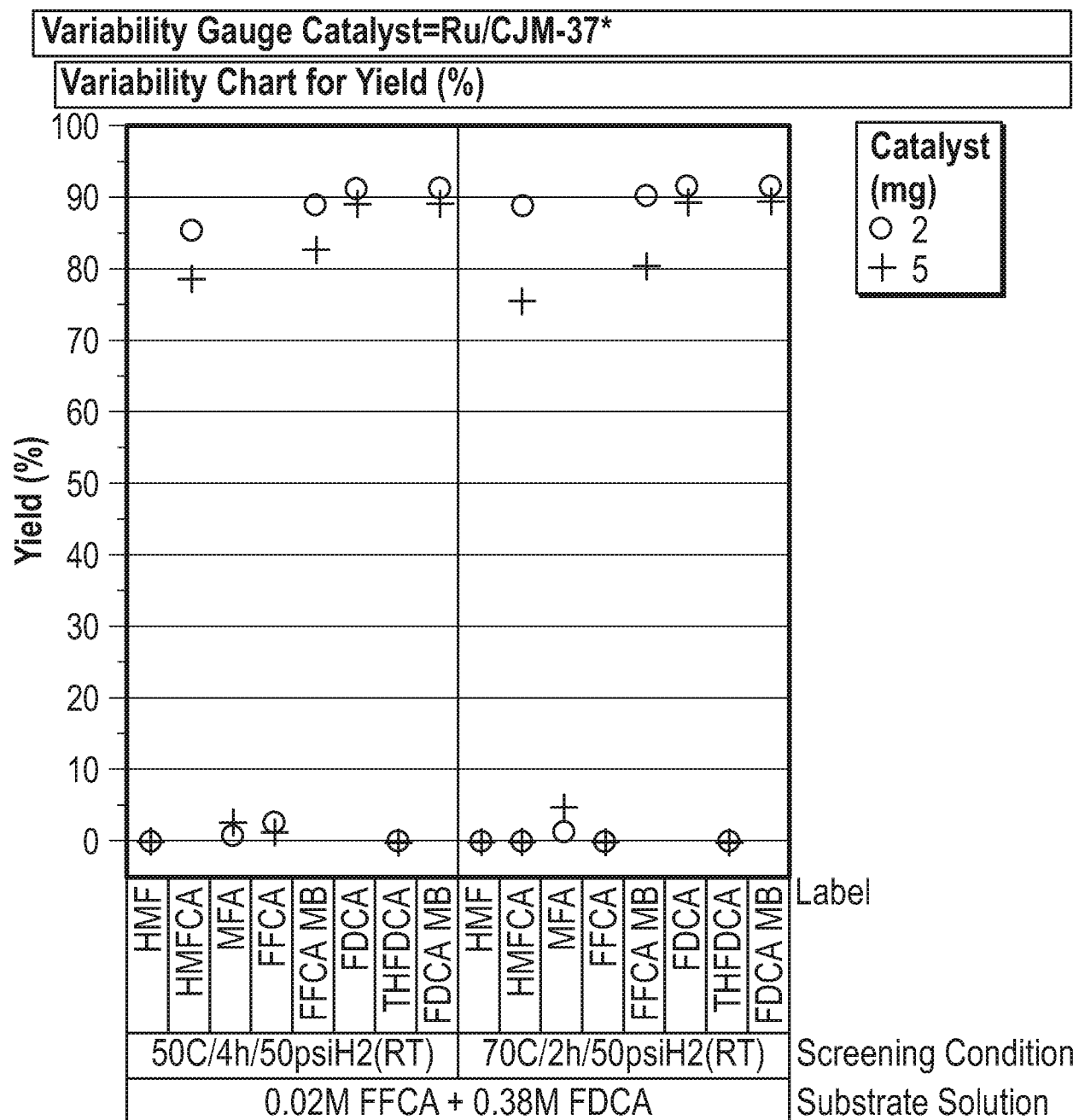


FIG. 11

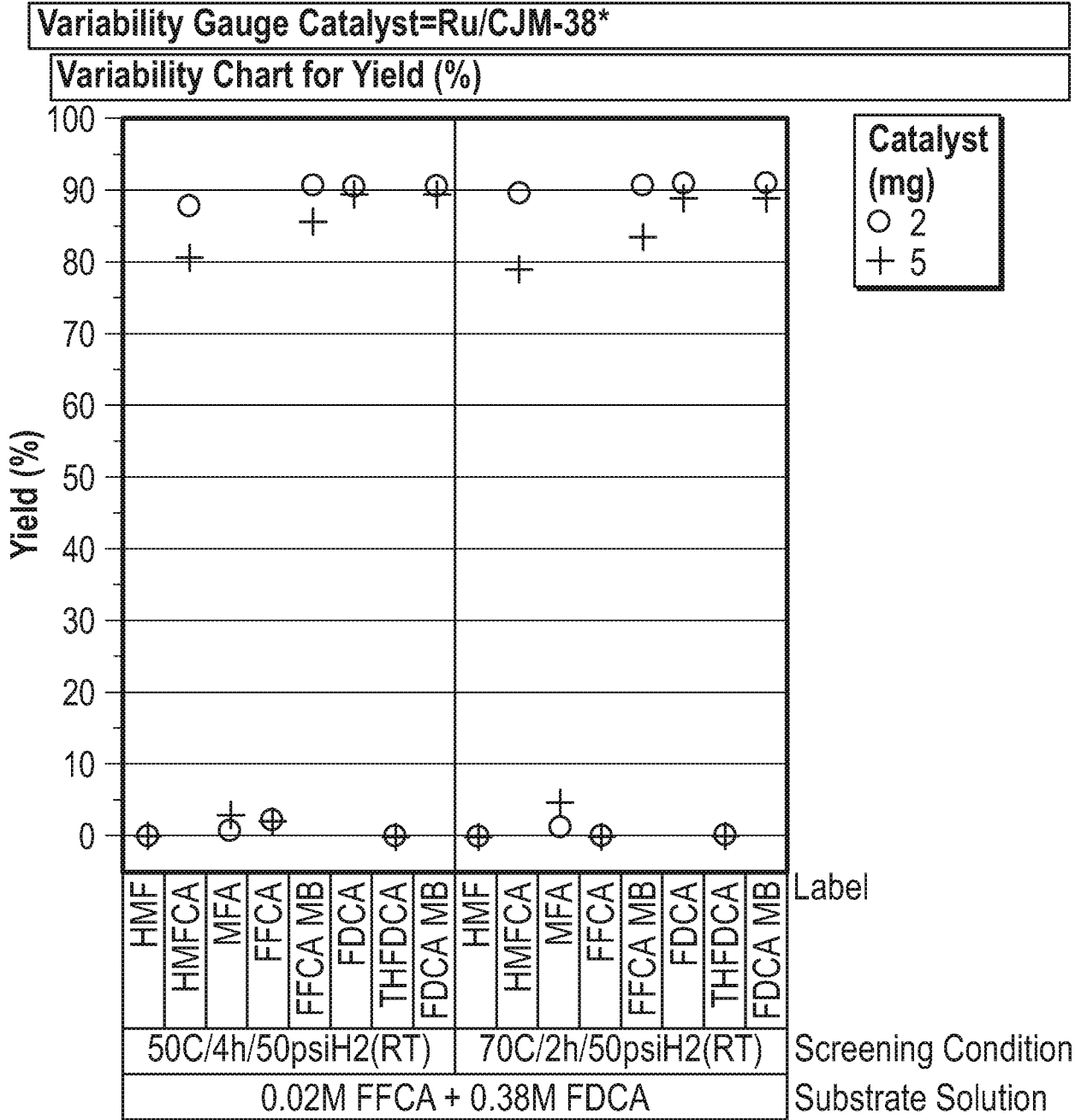


FIG. 12

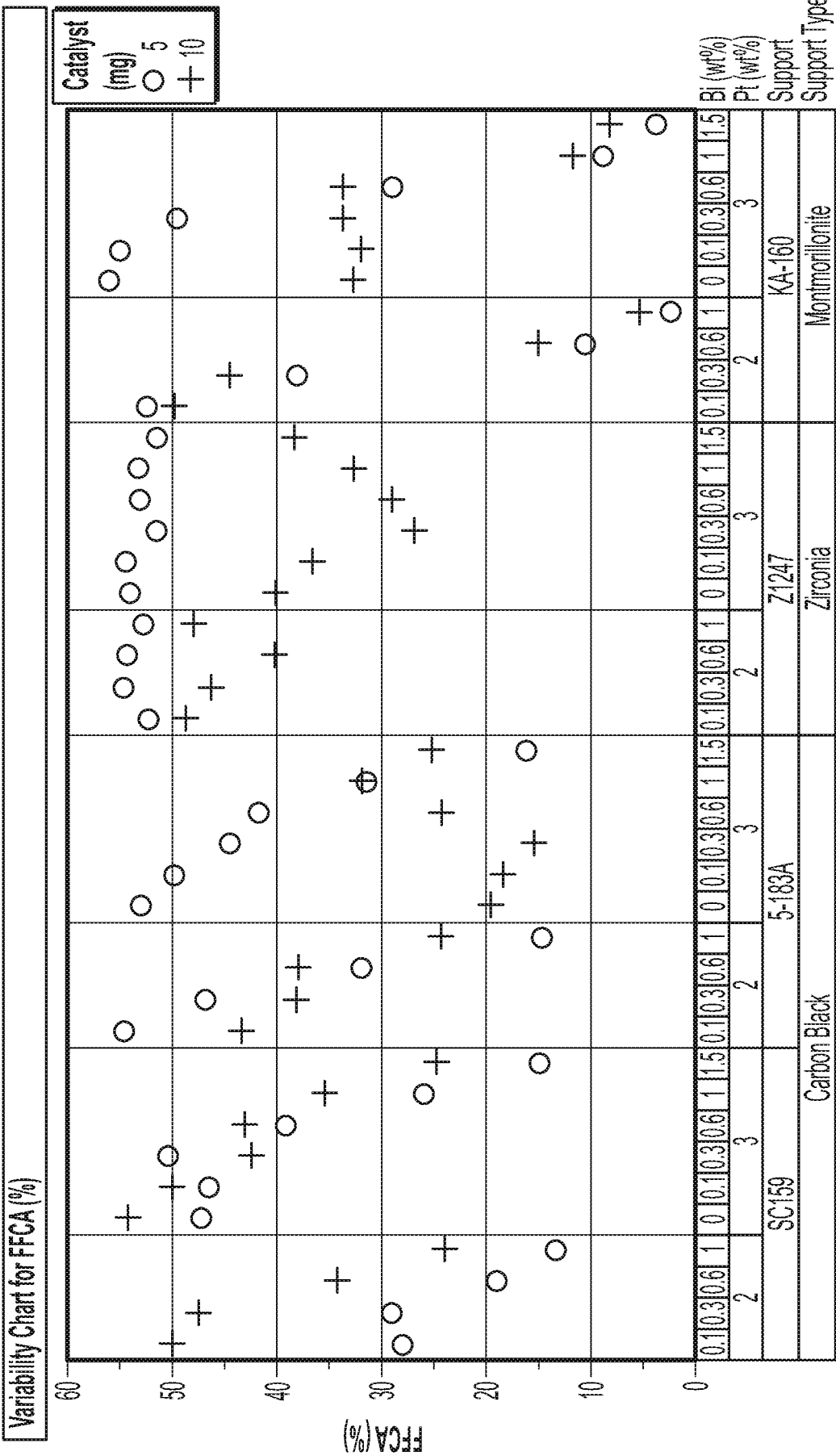


FIG. 15

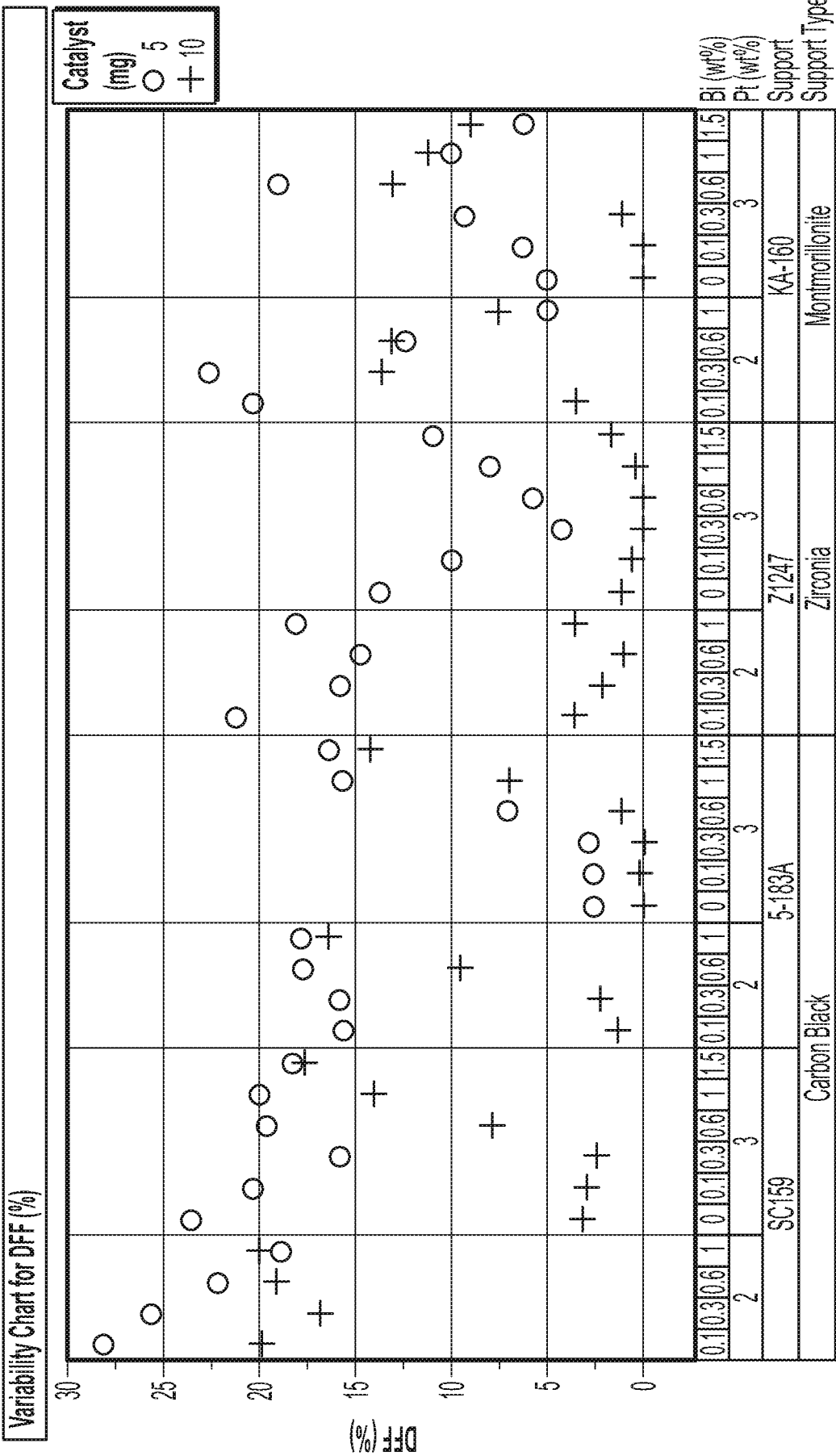


FIG. 16

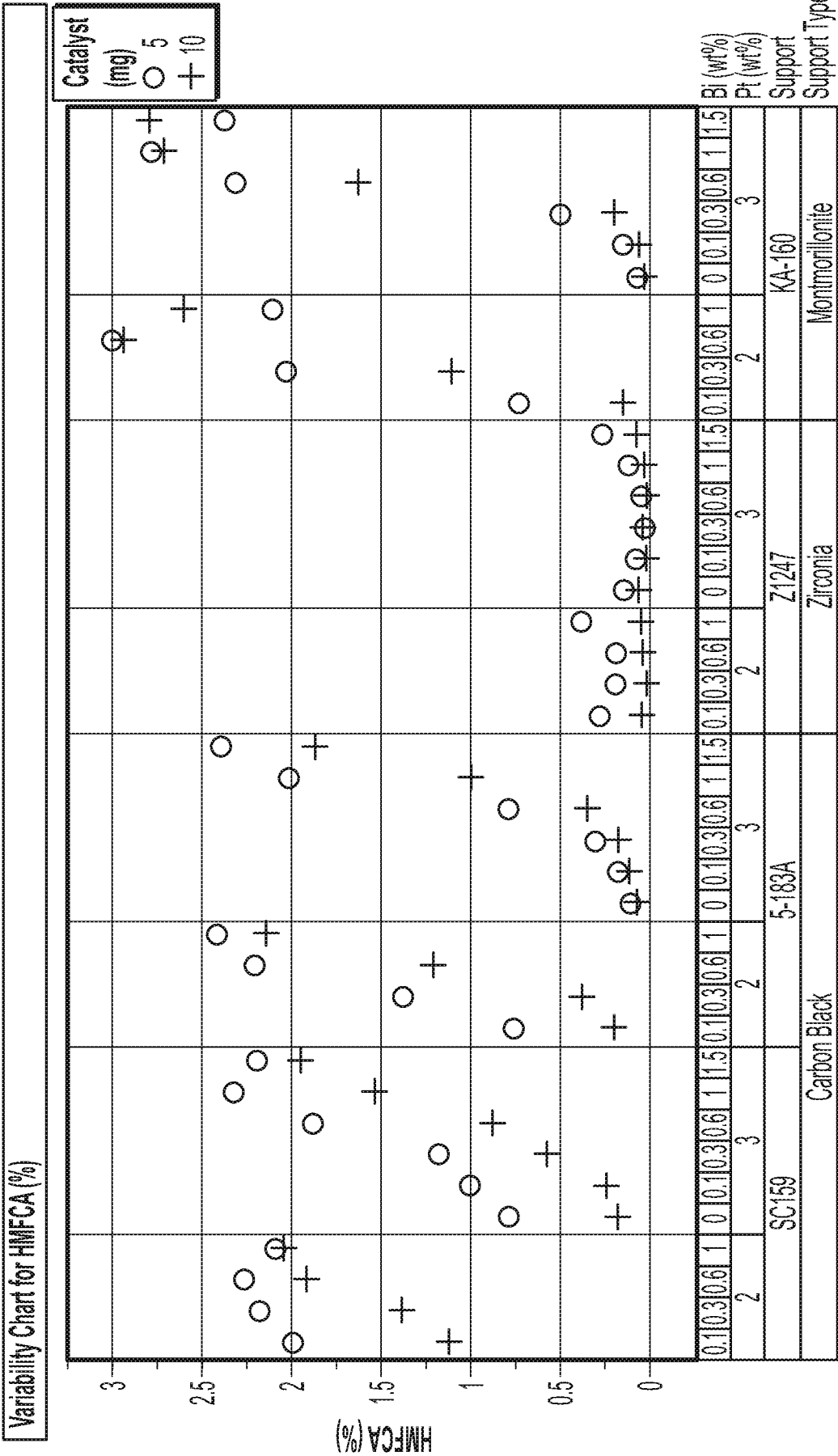


FIG. 17

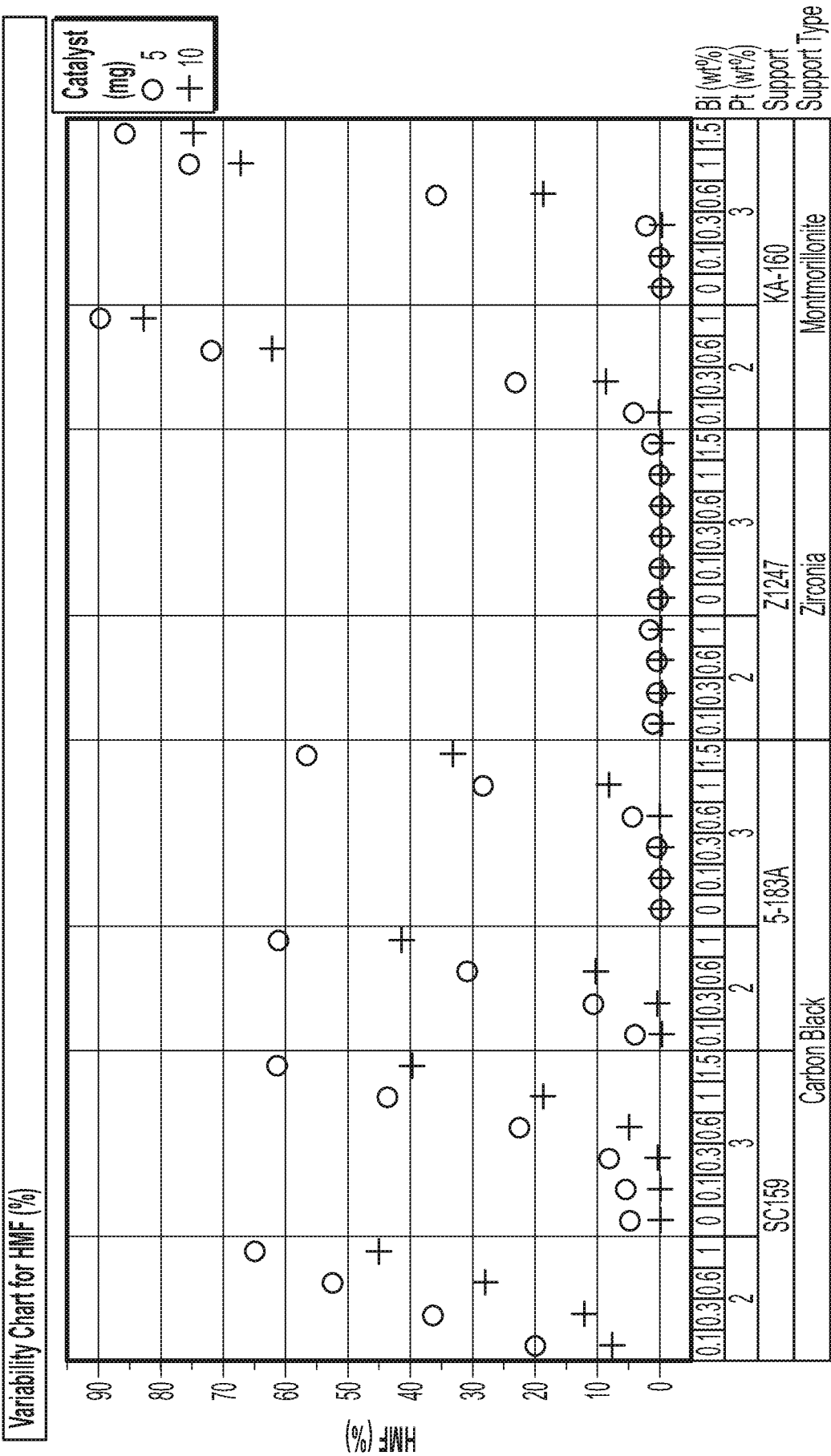


FIG. 18

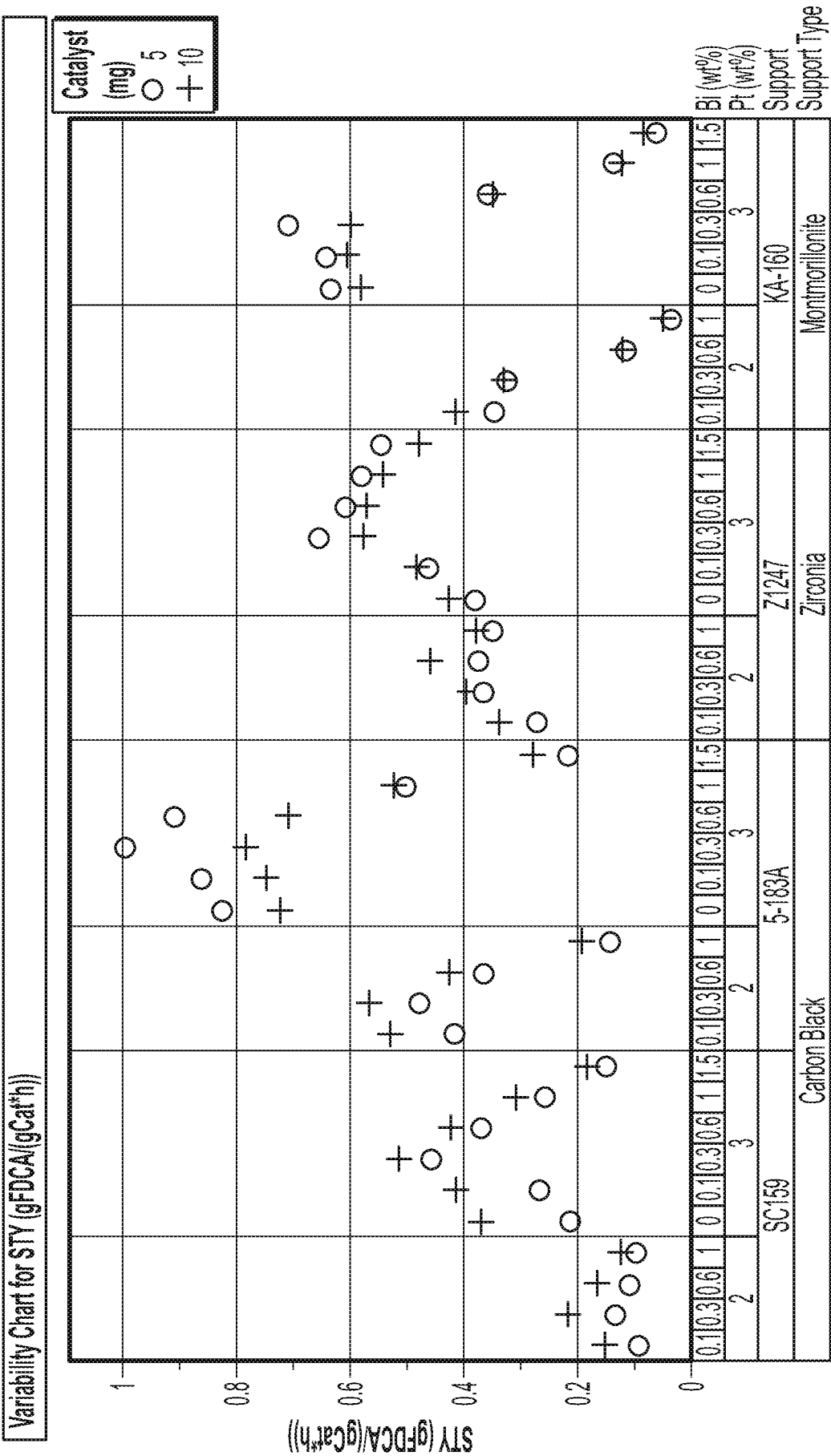


FIG. 20

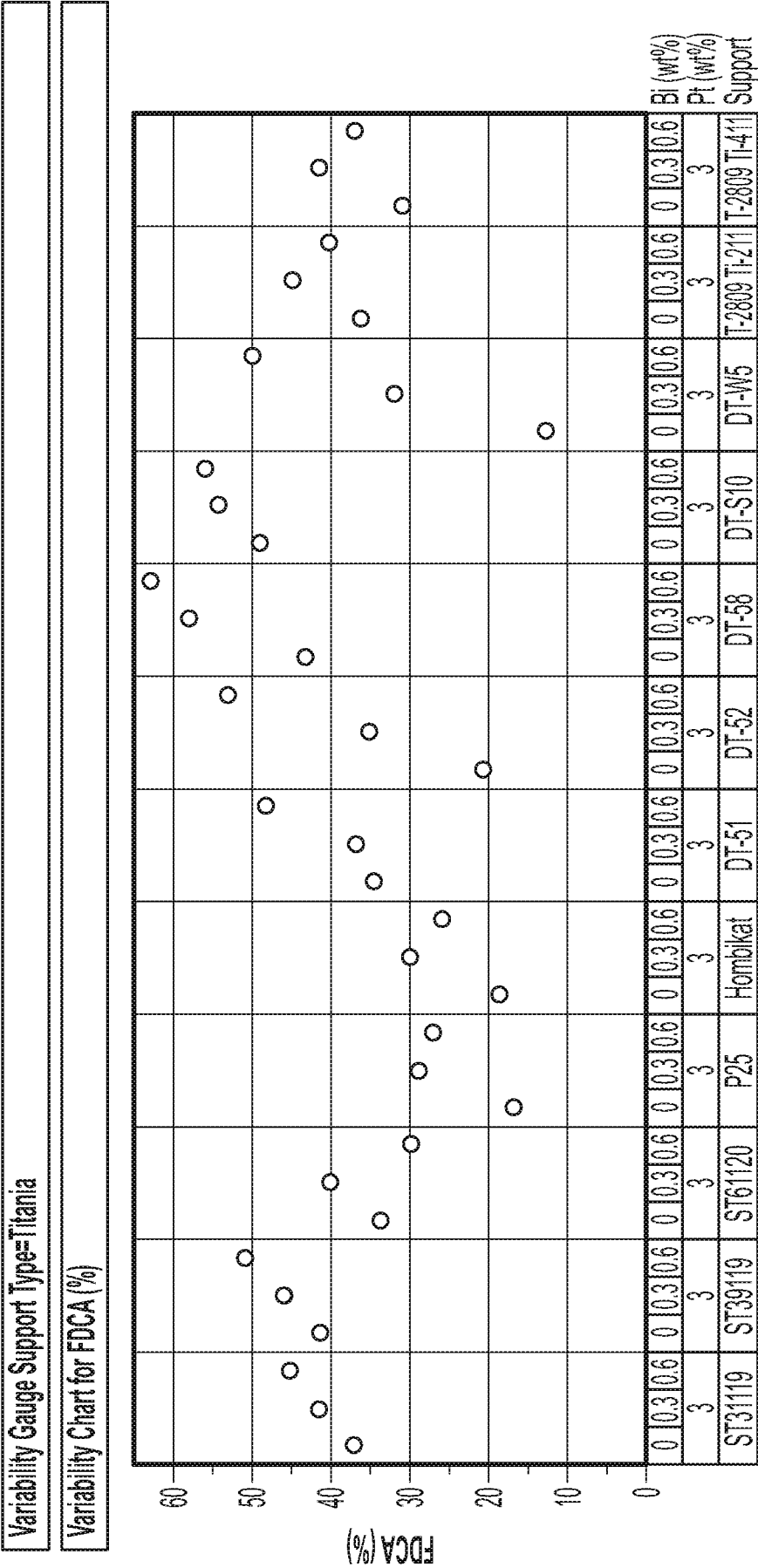
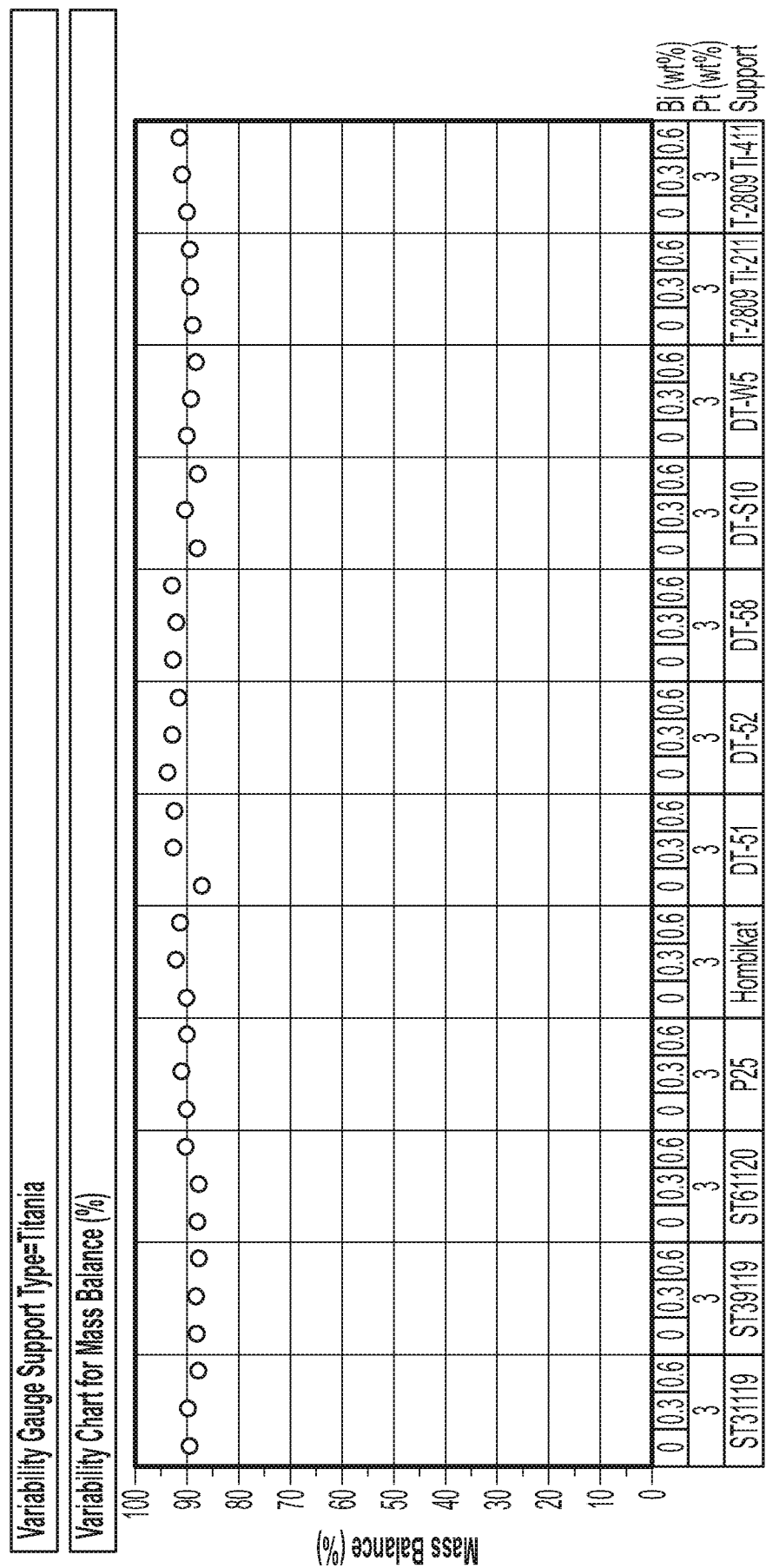


FIG. 21

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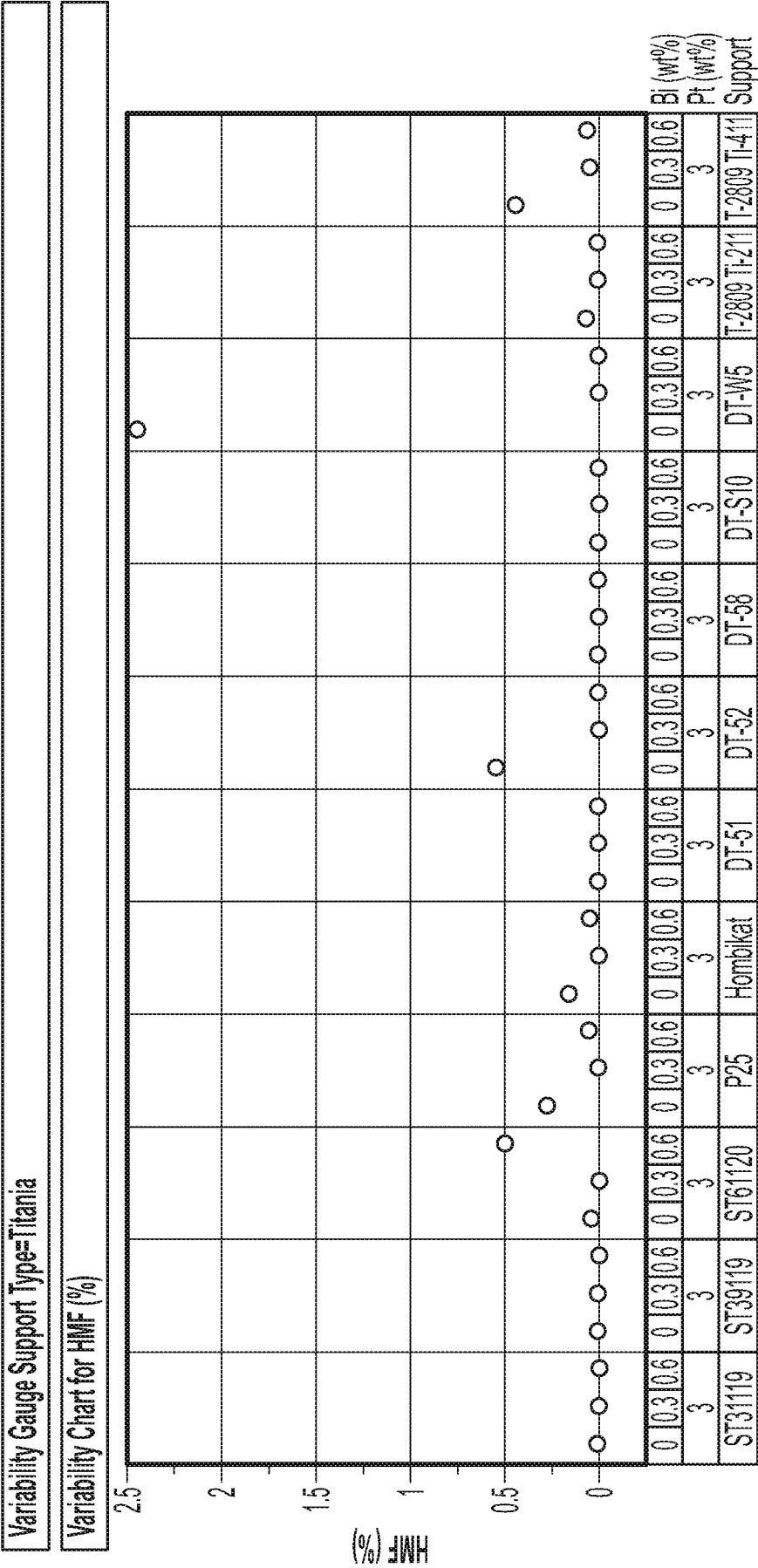


FIG. 23

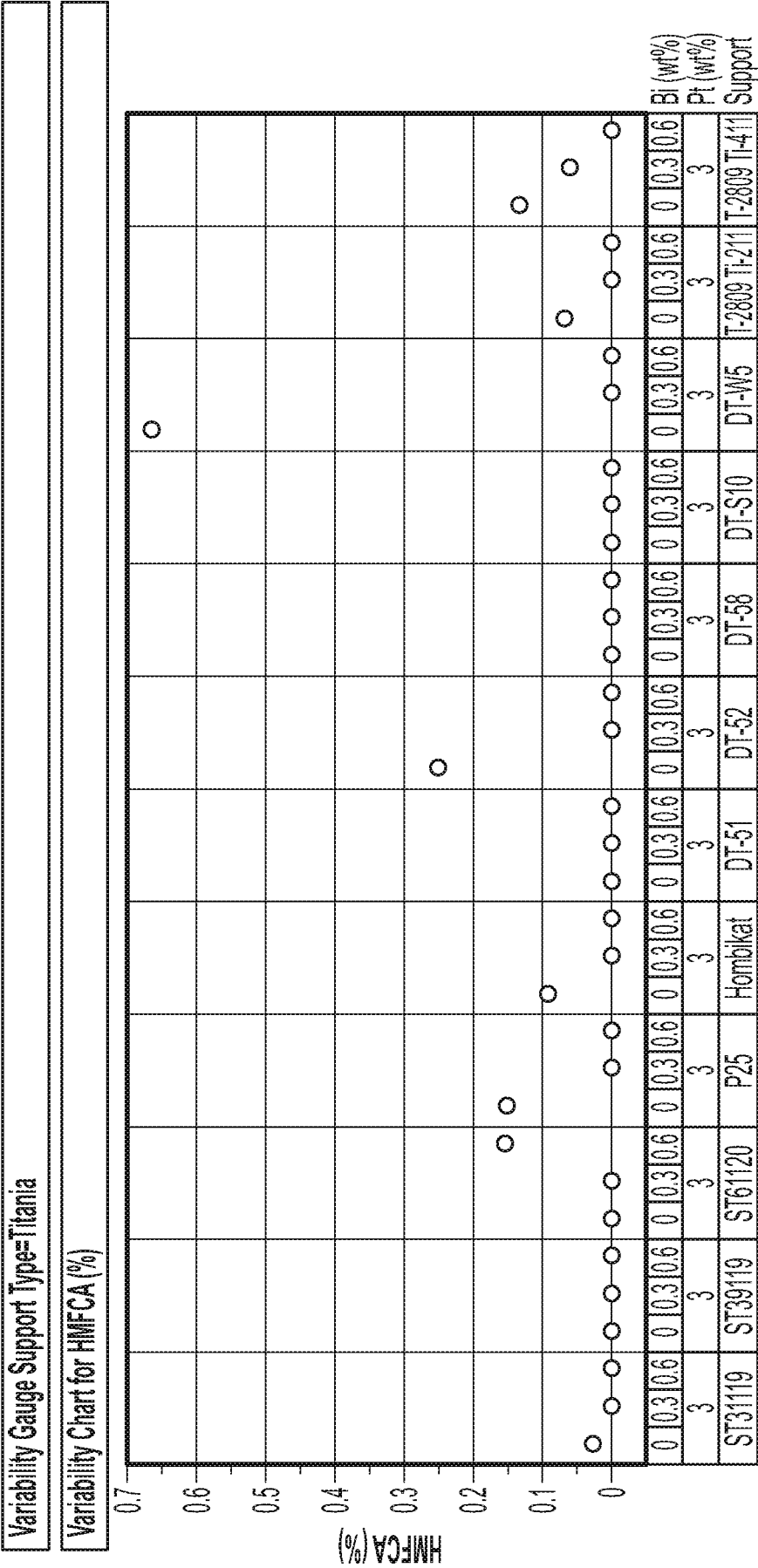


FIG. 24

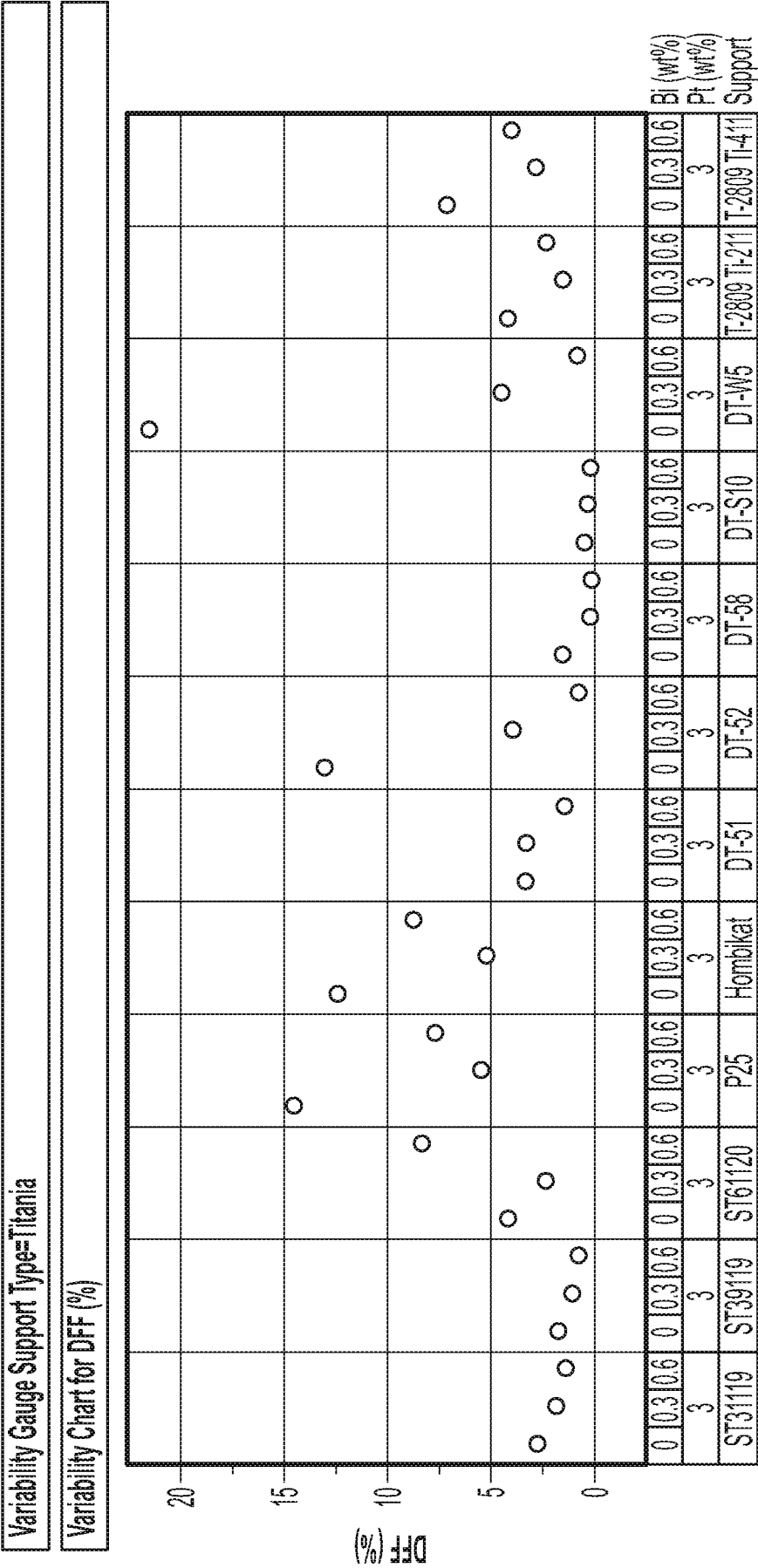


FIG. 25

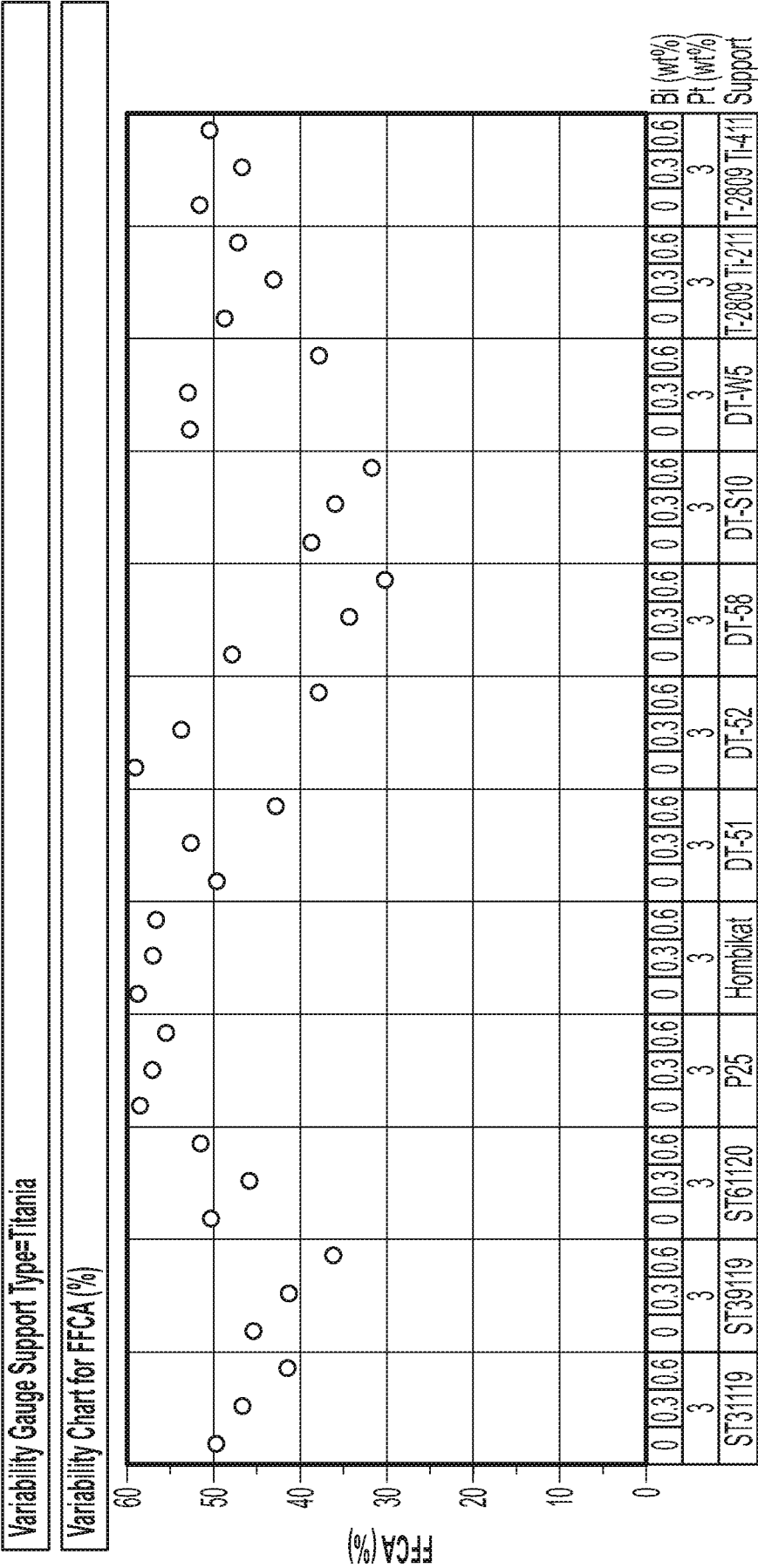


FIG. 26

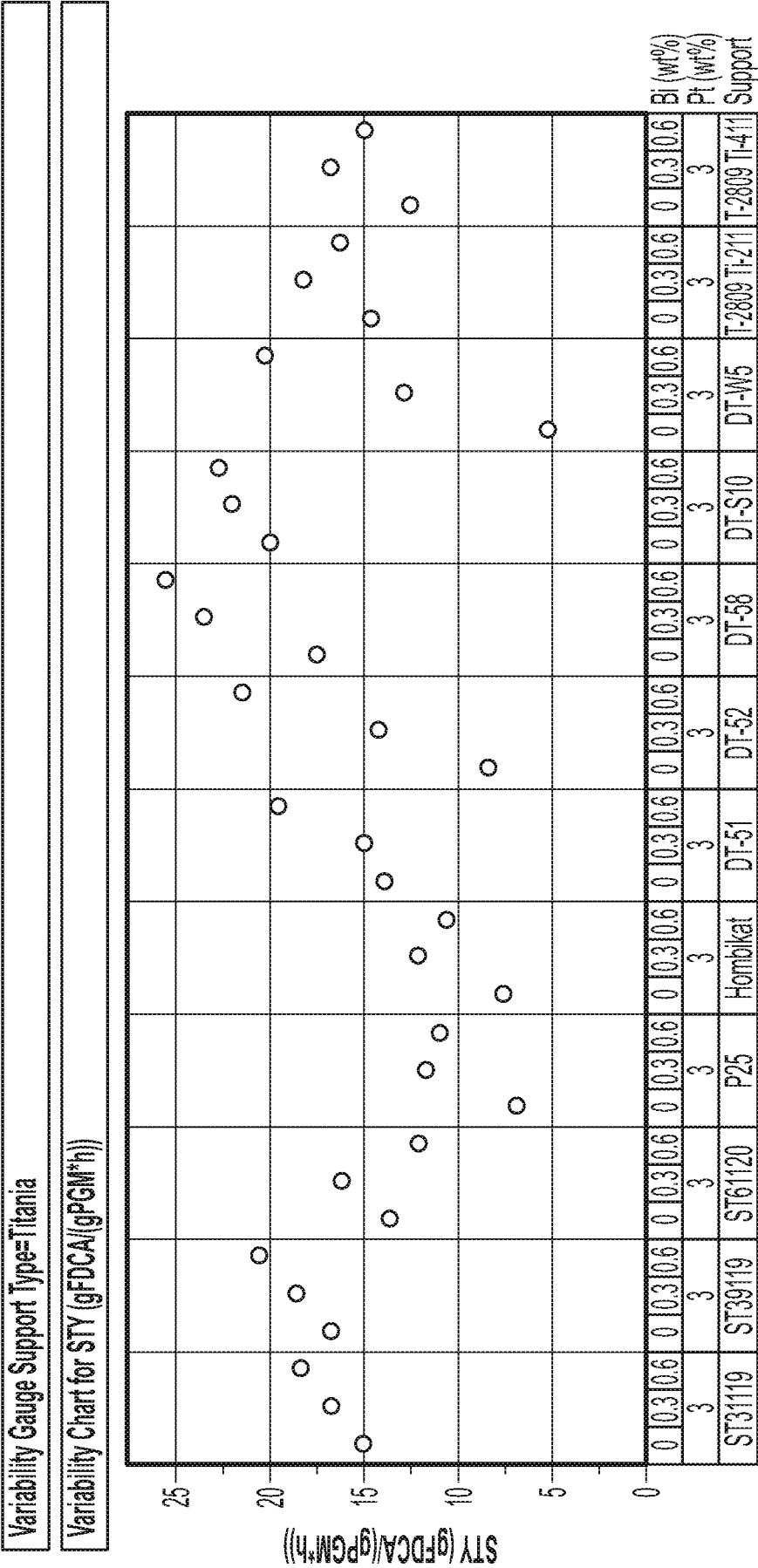


FIG. 27

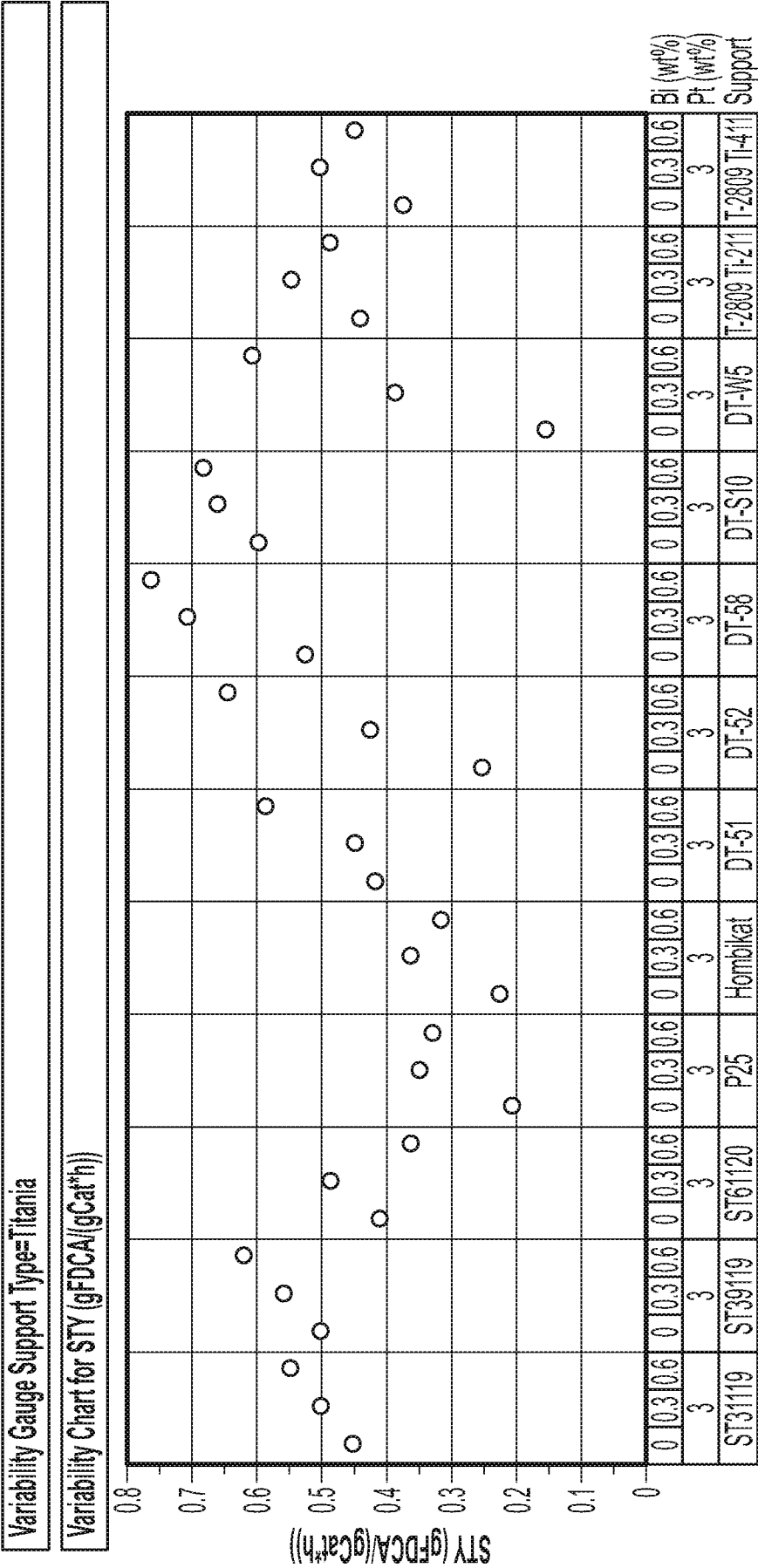


FIG. 28

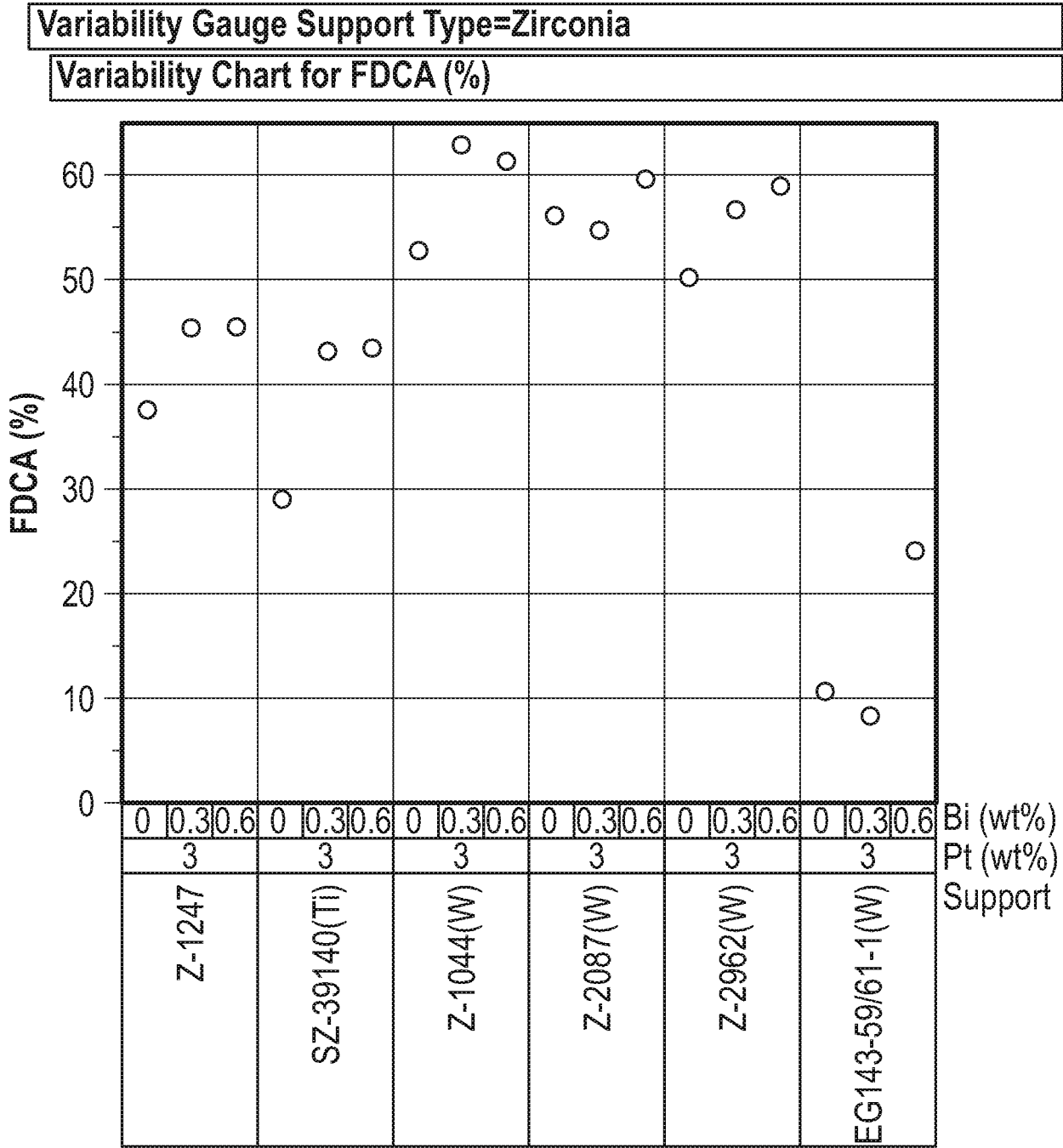


FIG. 29

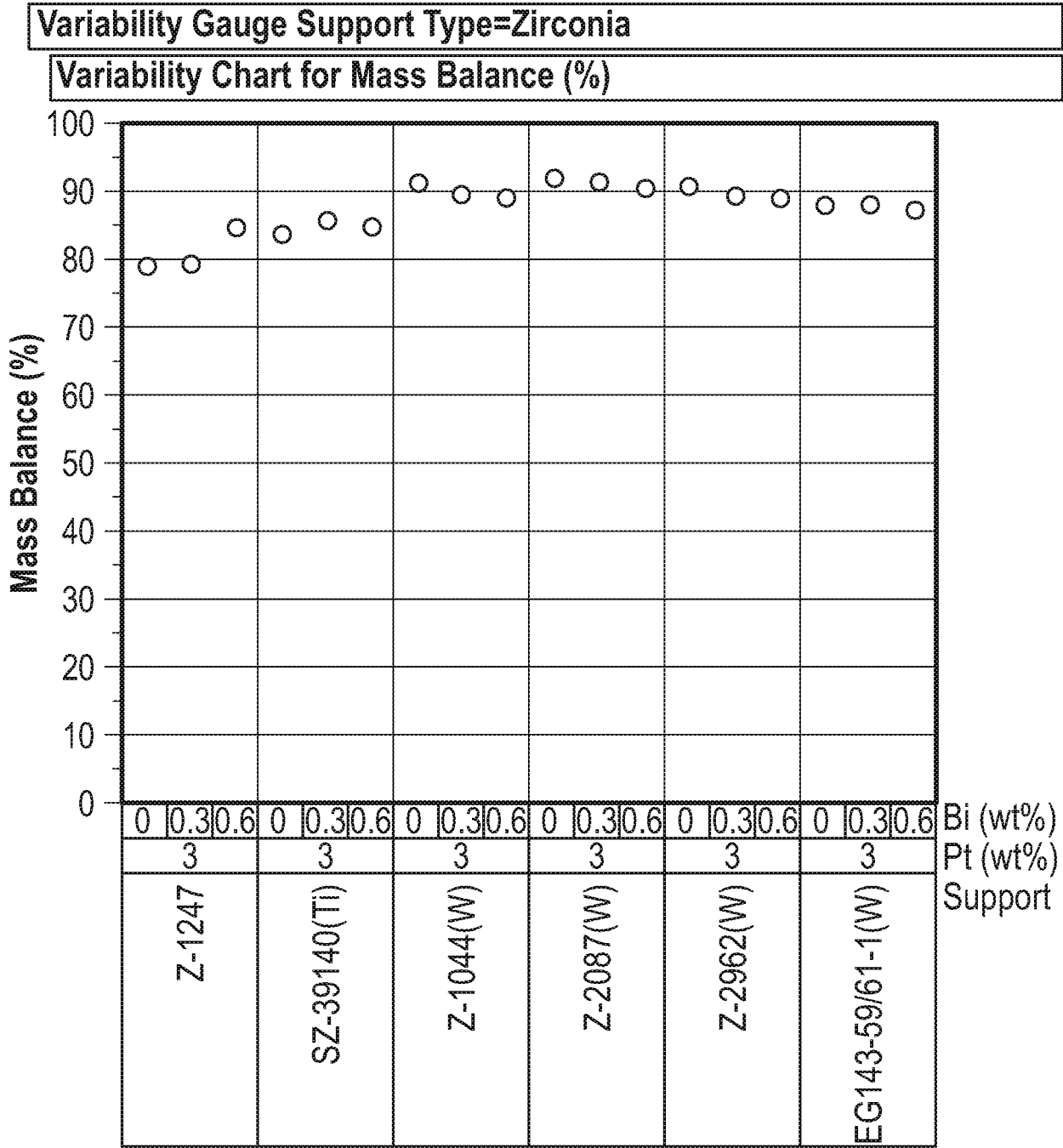


FIG. 30

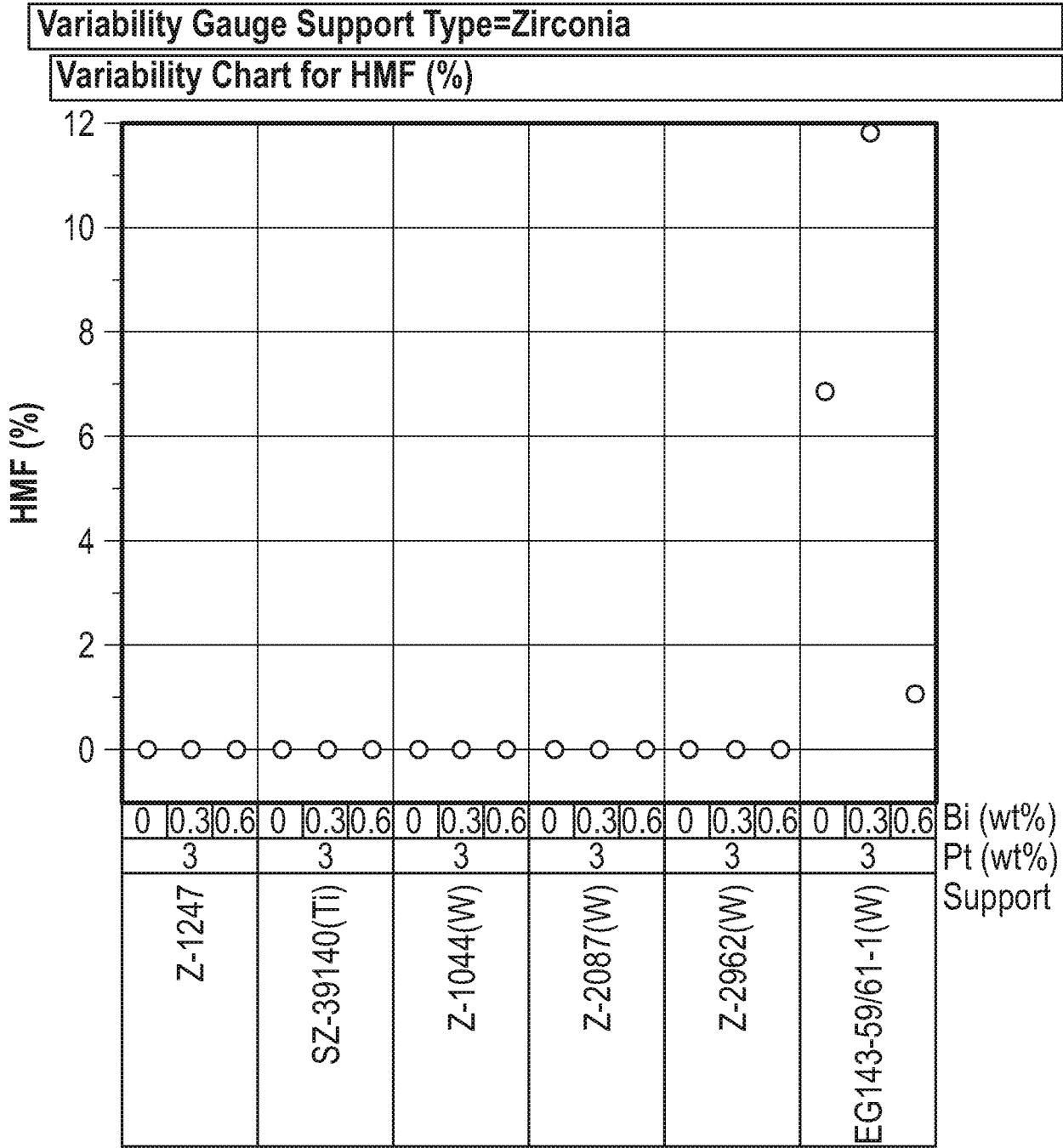


FIG. 31

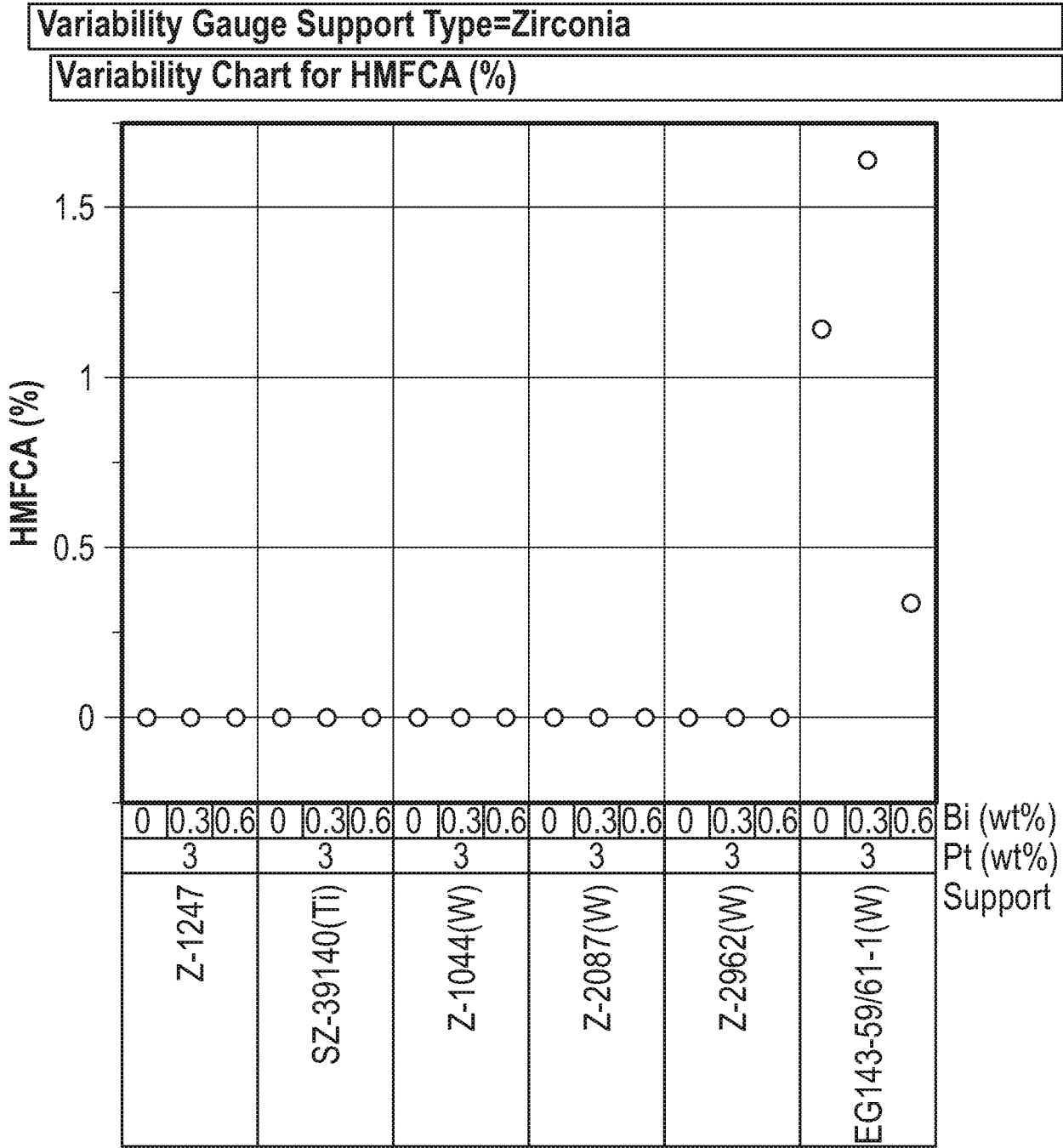


FIG. 32

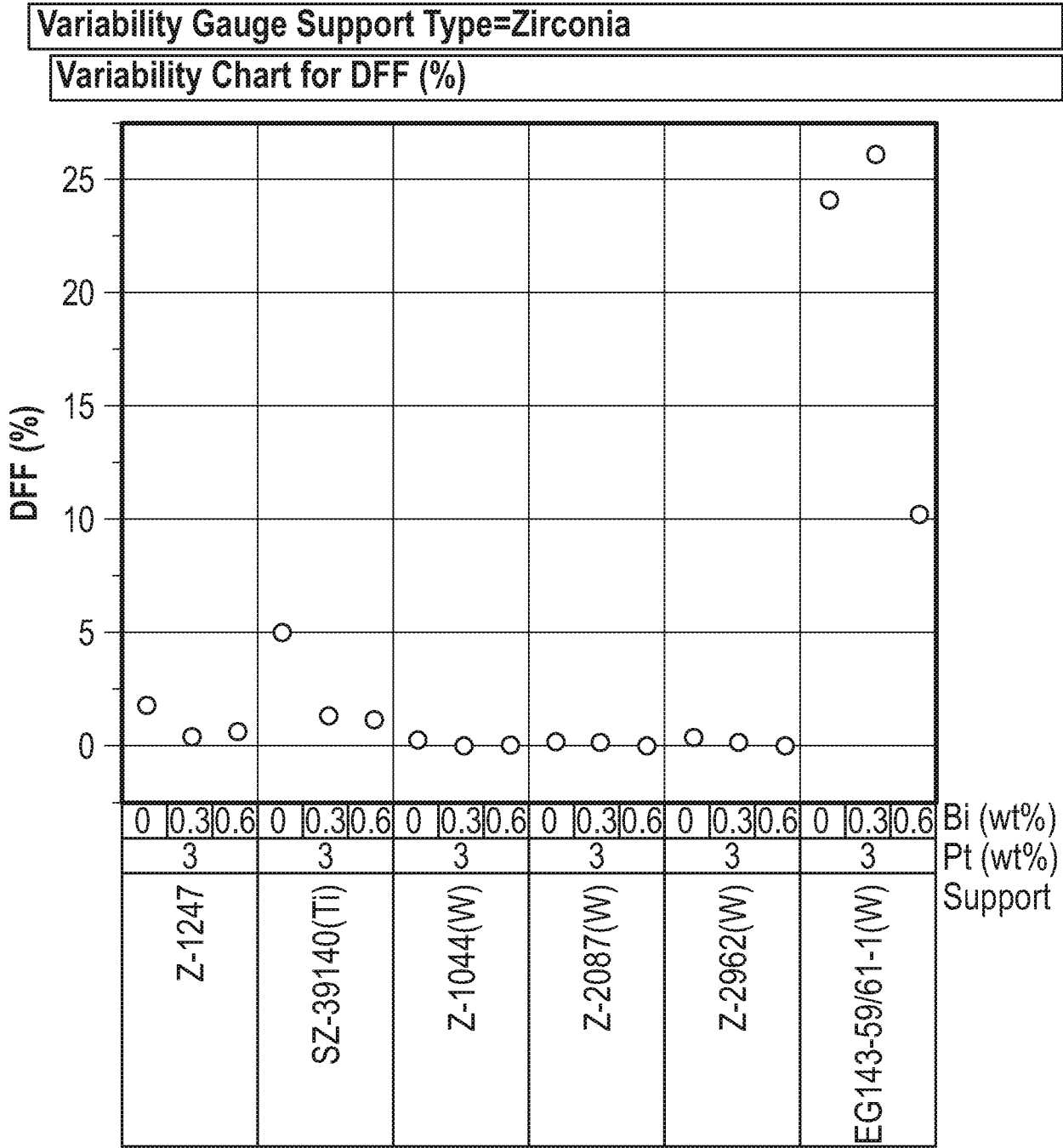


FIG. 33

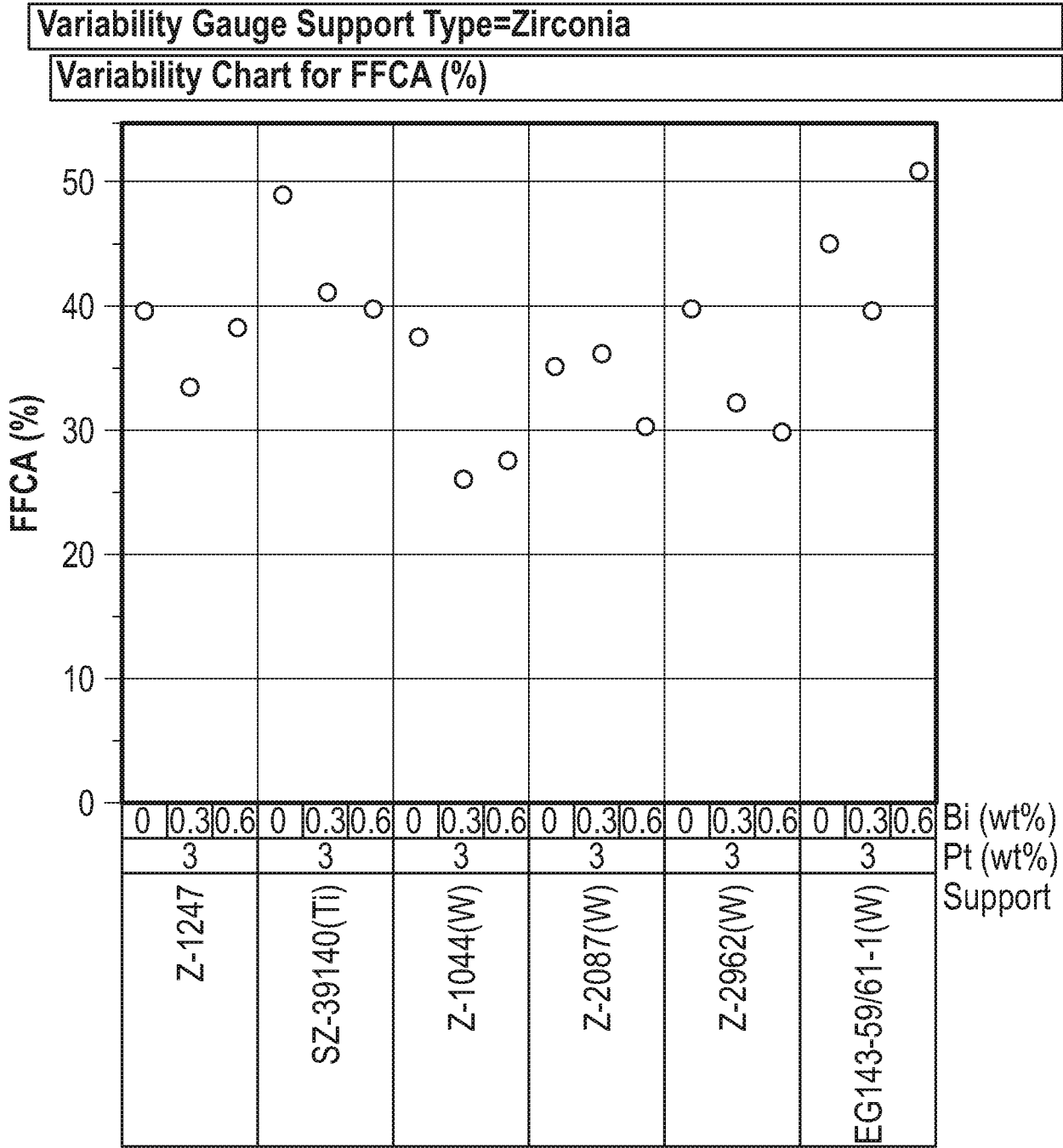


FIG. 34

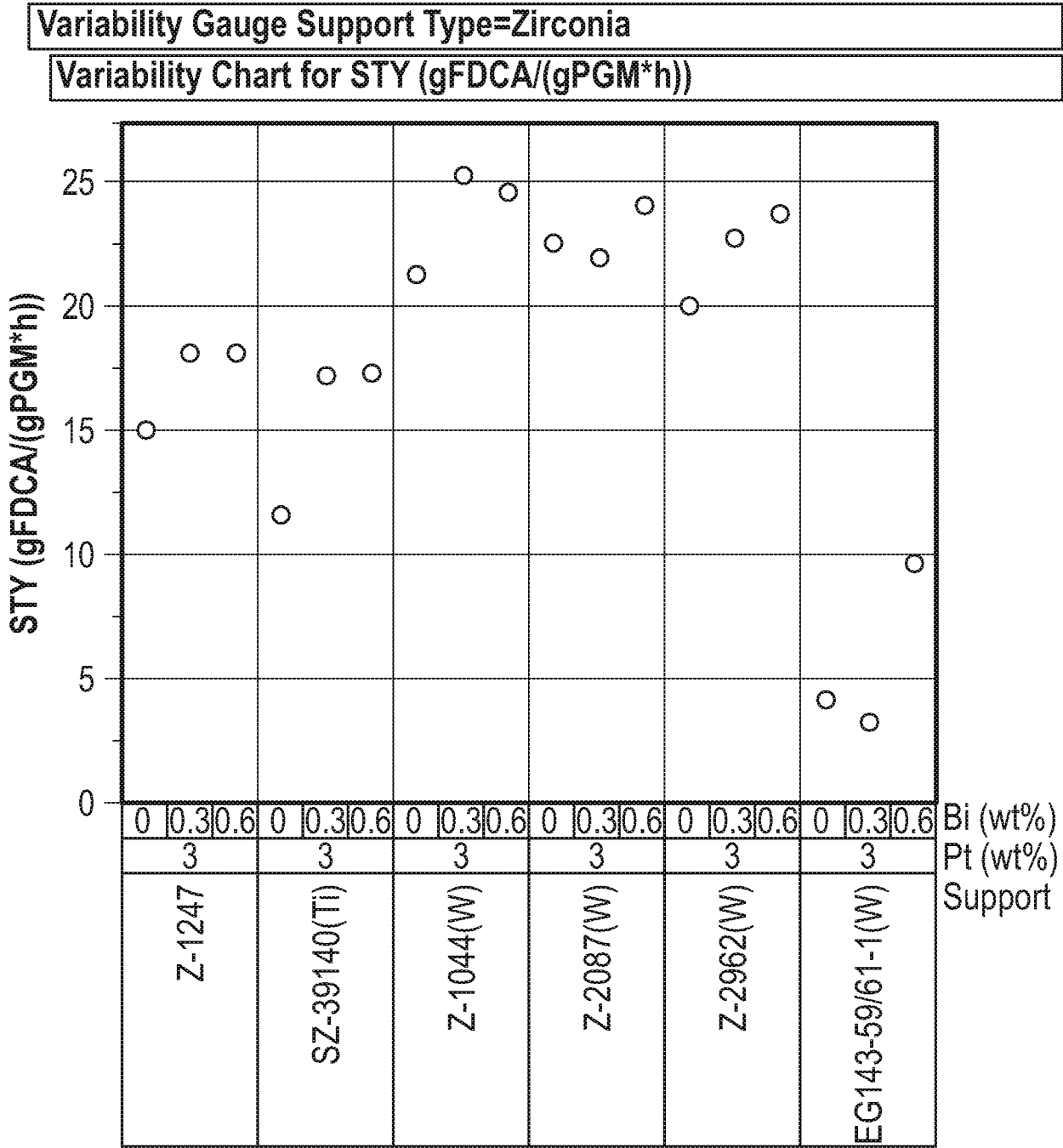


FIG. 35

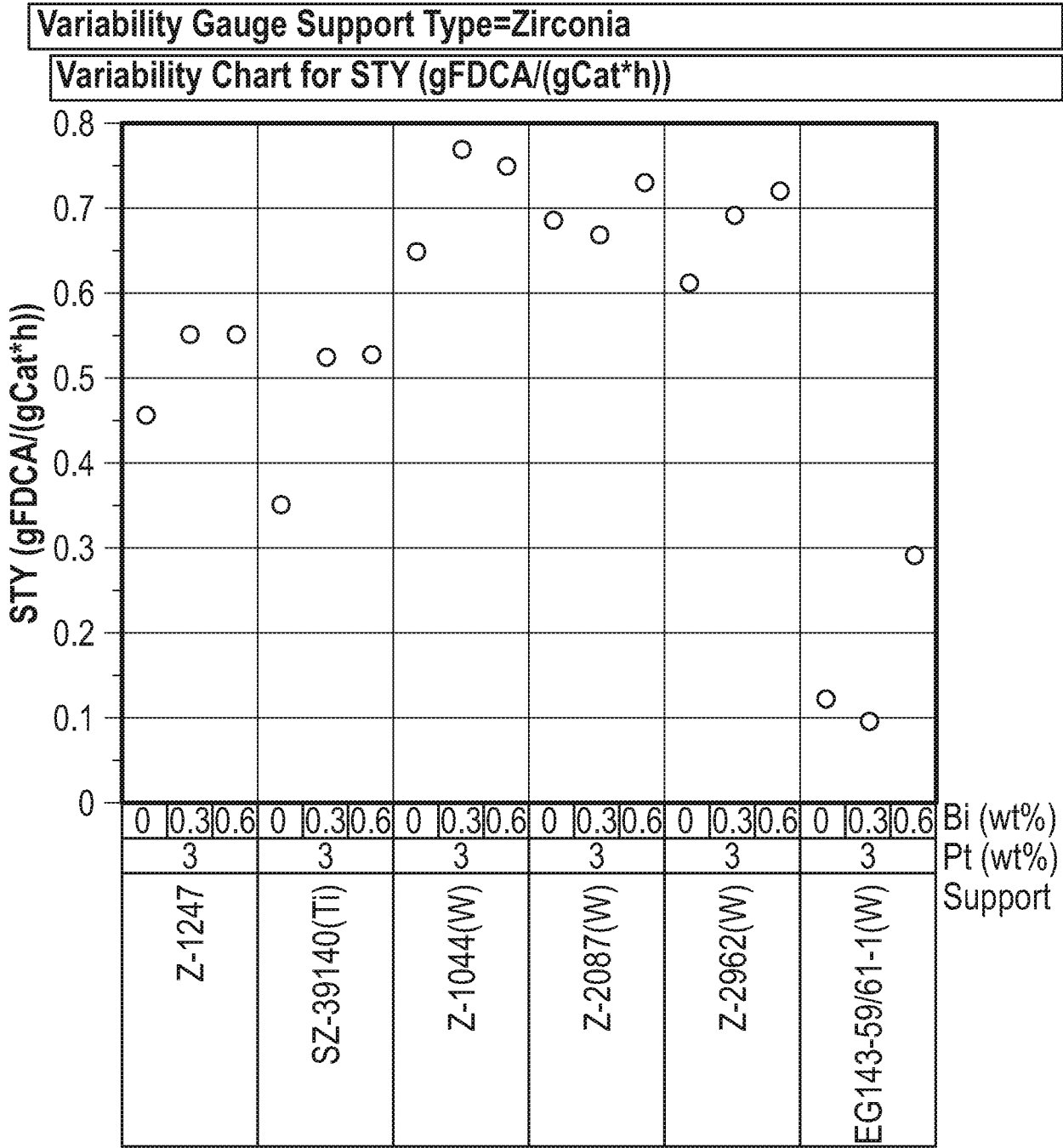


FIG. 36

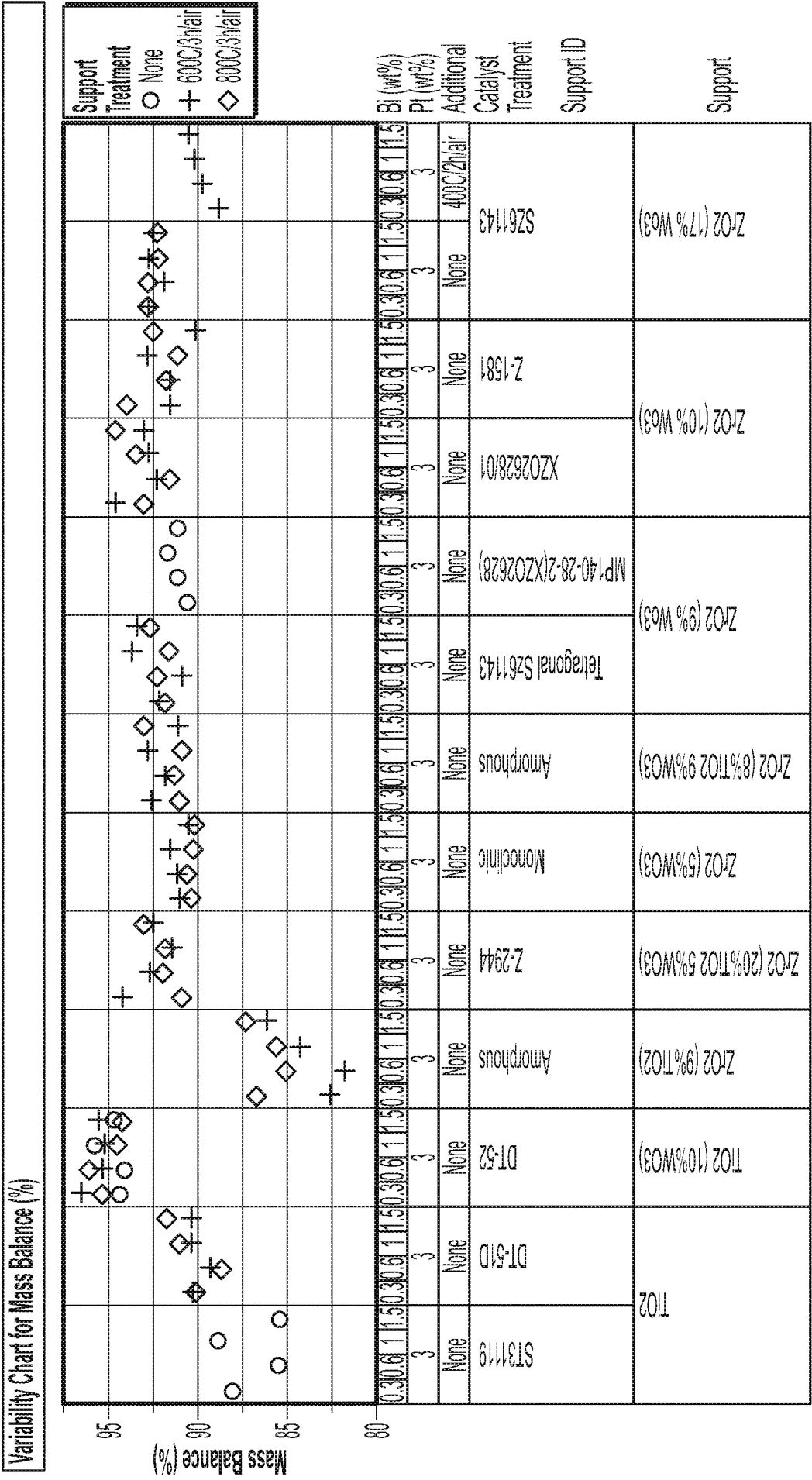
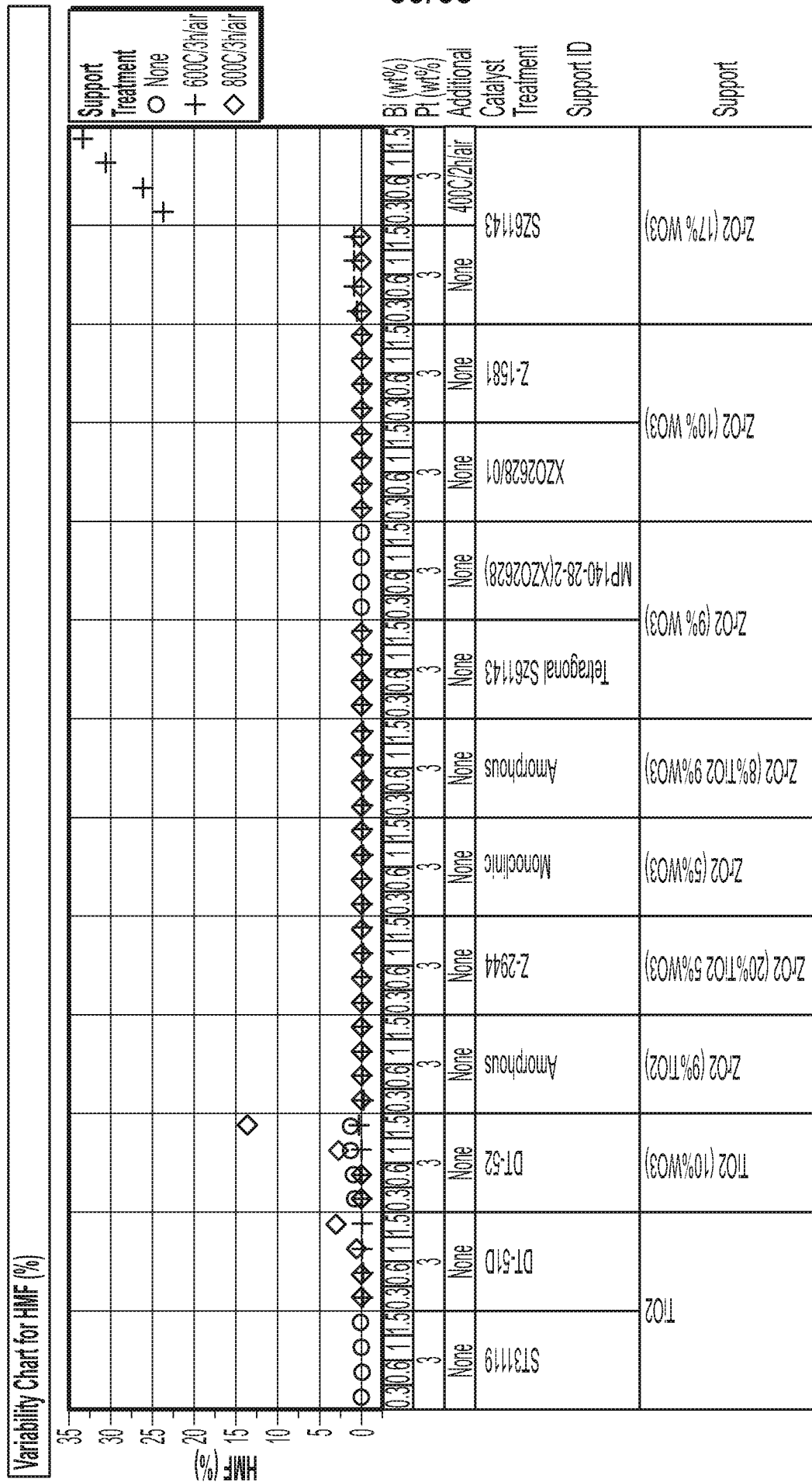
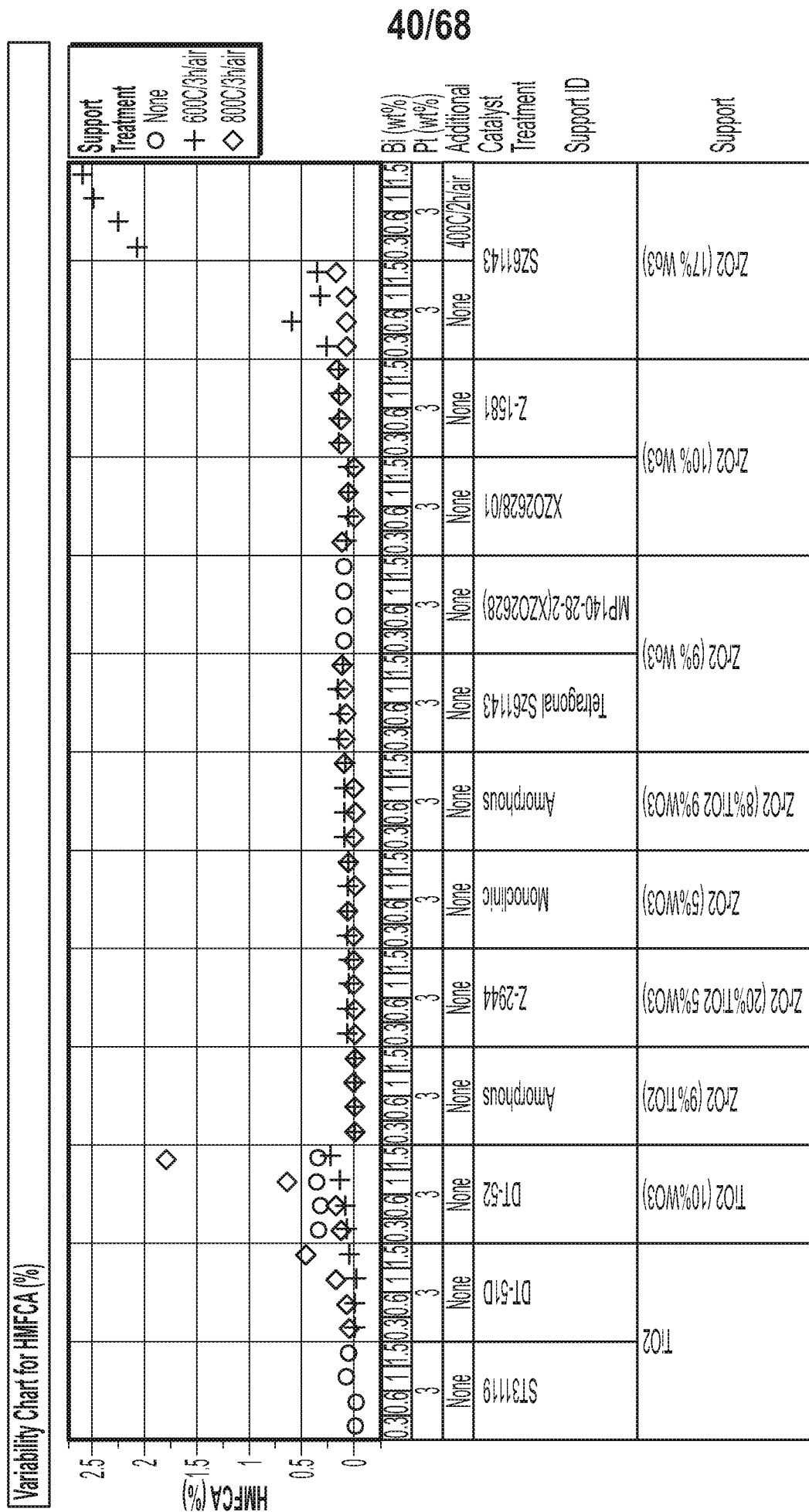
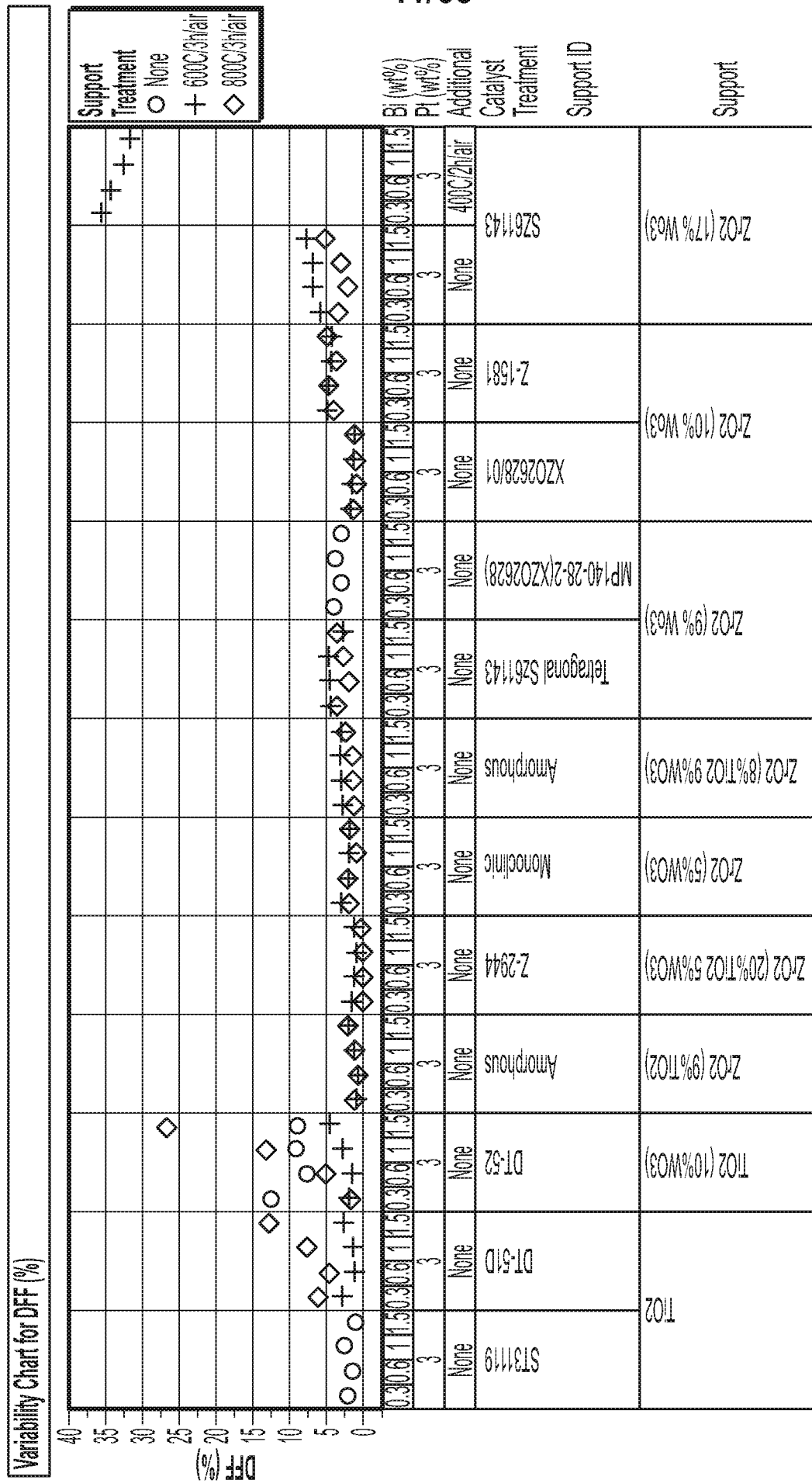


FIG. 38







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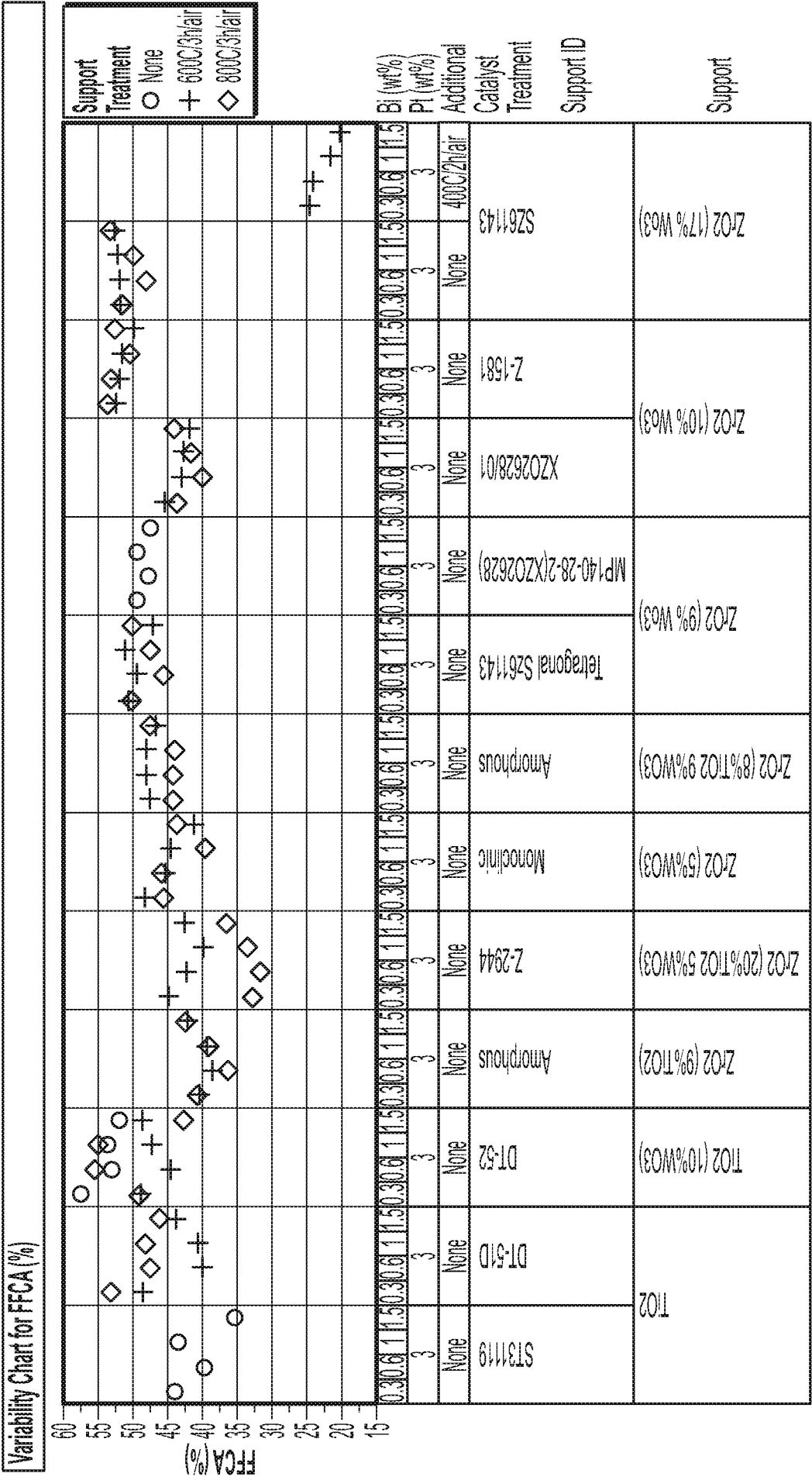


FIG. 42

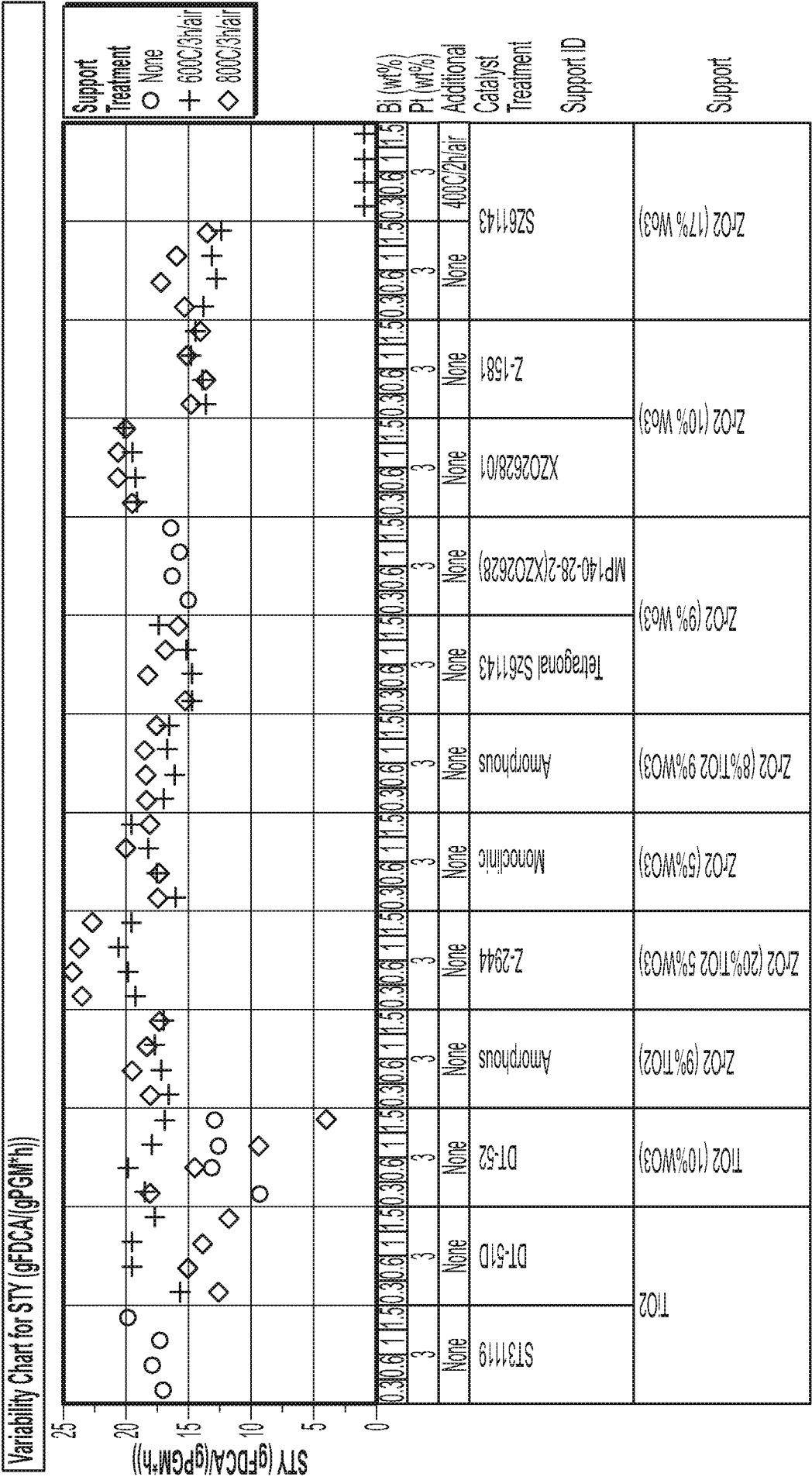


FIG. 43

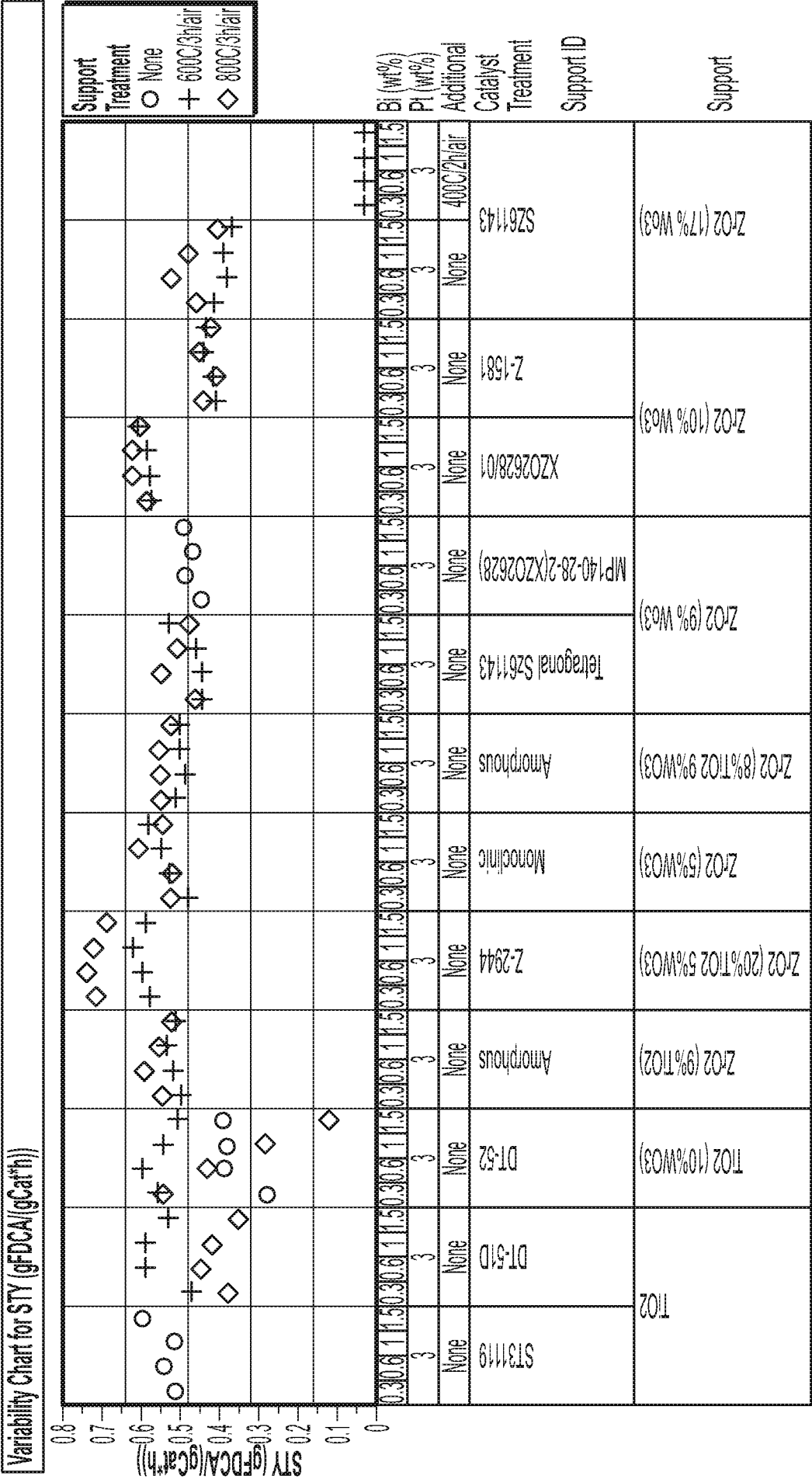
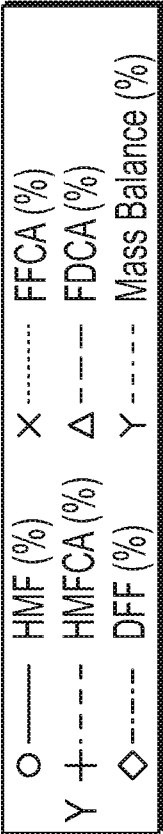


FIG. 44



Overlay Plot Catalyst Full Name=FB31: 3.0wt%Pt/ZrO2 1247 Small Particles (75-150μm)

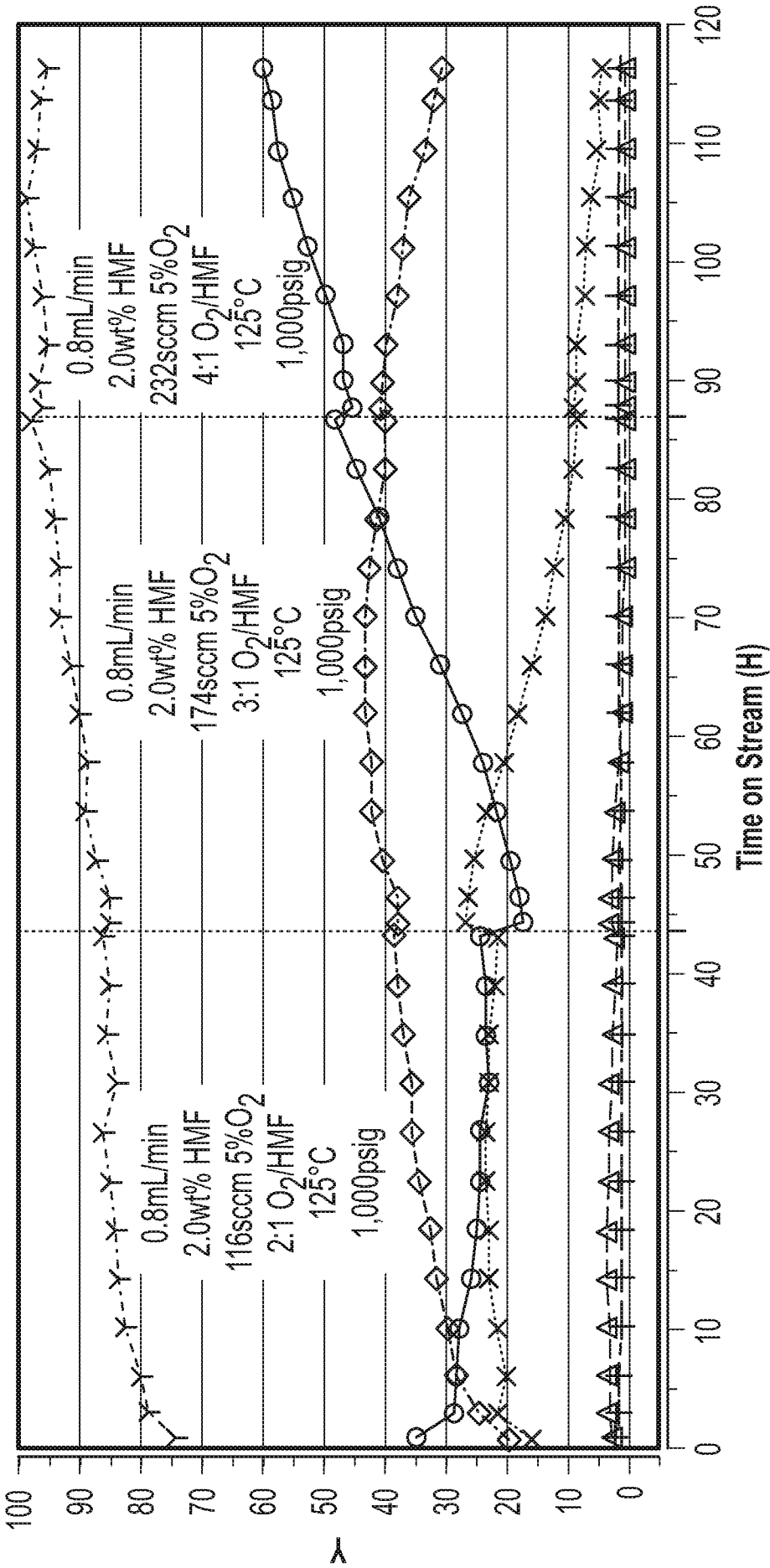


FIG. 45

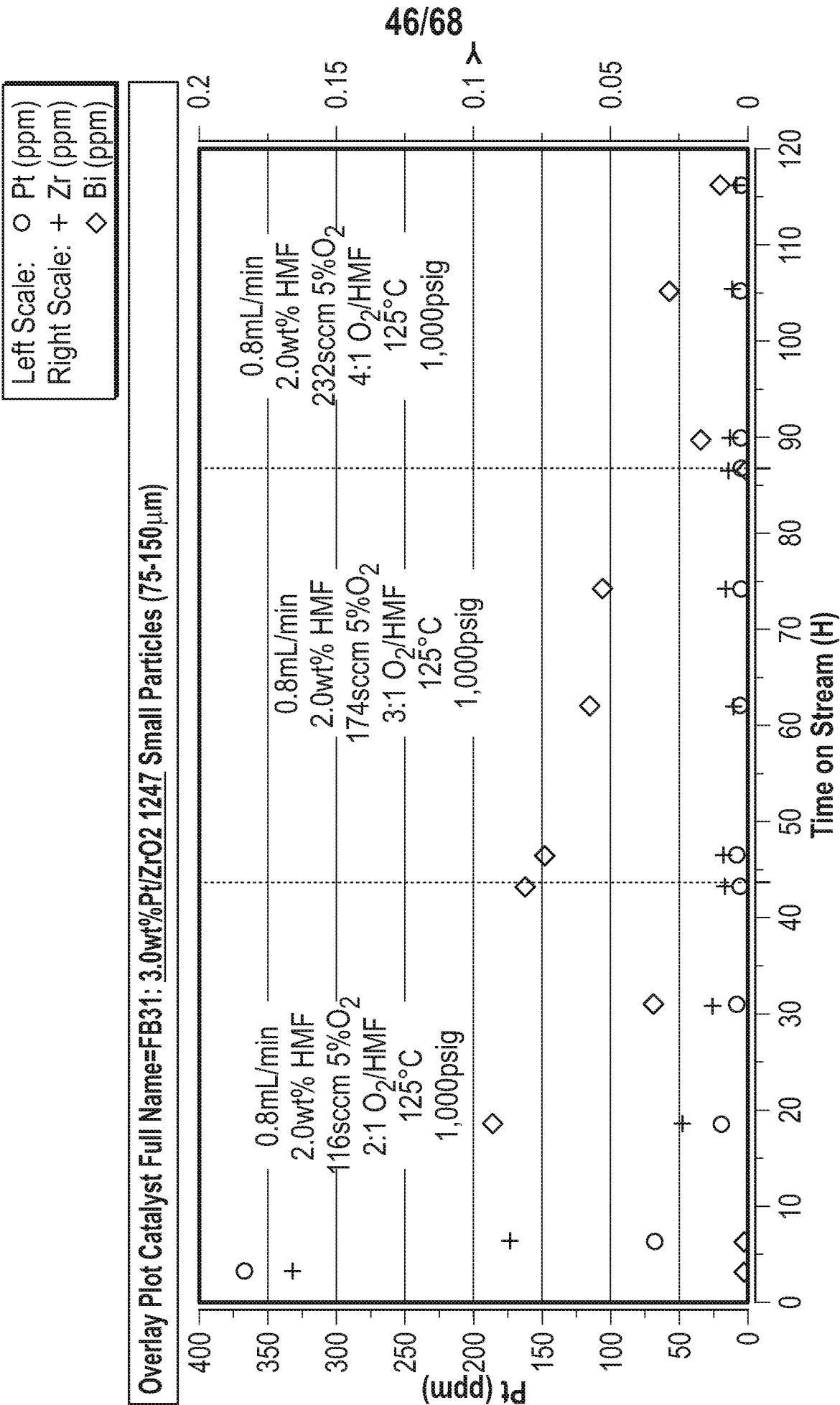


FIG. 46

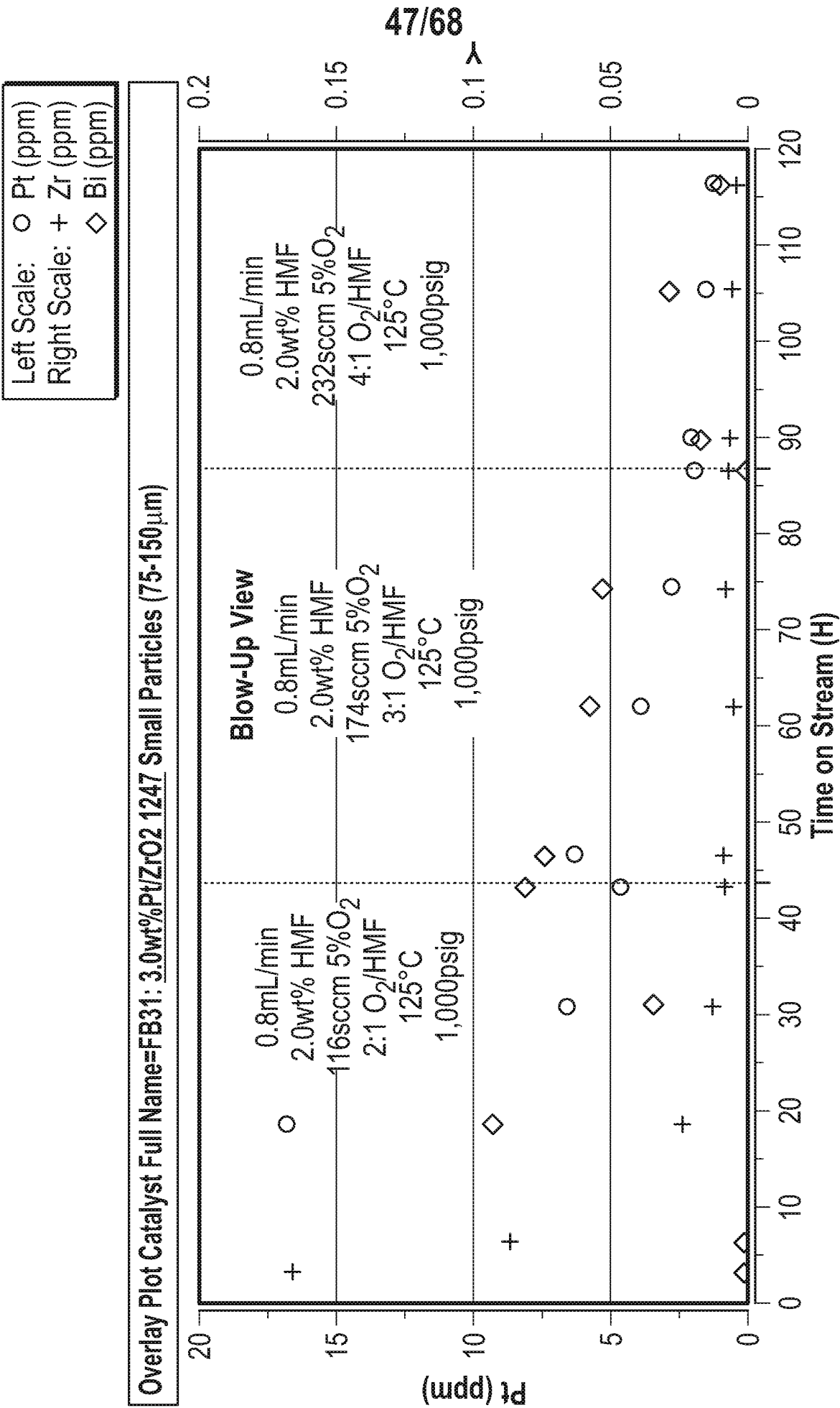
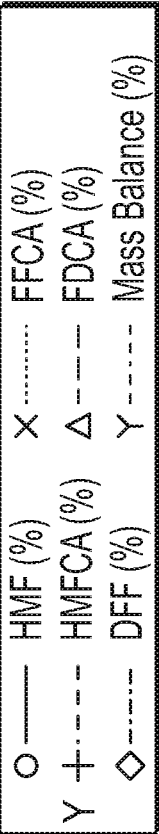


FIG. 47



Overlay Plot Catalyst Full Name=FB32: 0.30wt%Bi + 3.0wt%Pt/ZrO2 1247 Small Particles (75-150μm)

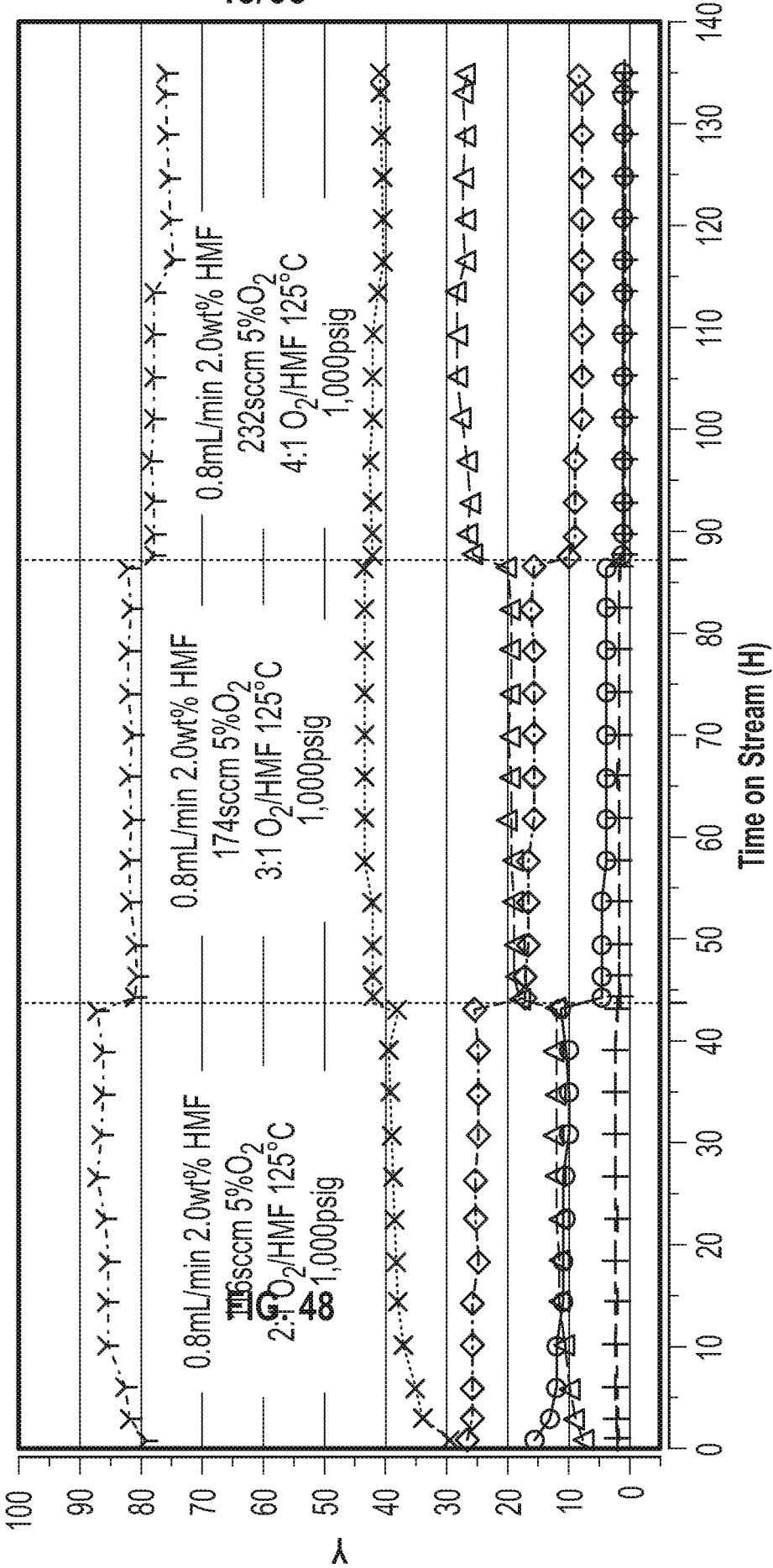


FIG. 48

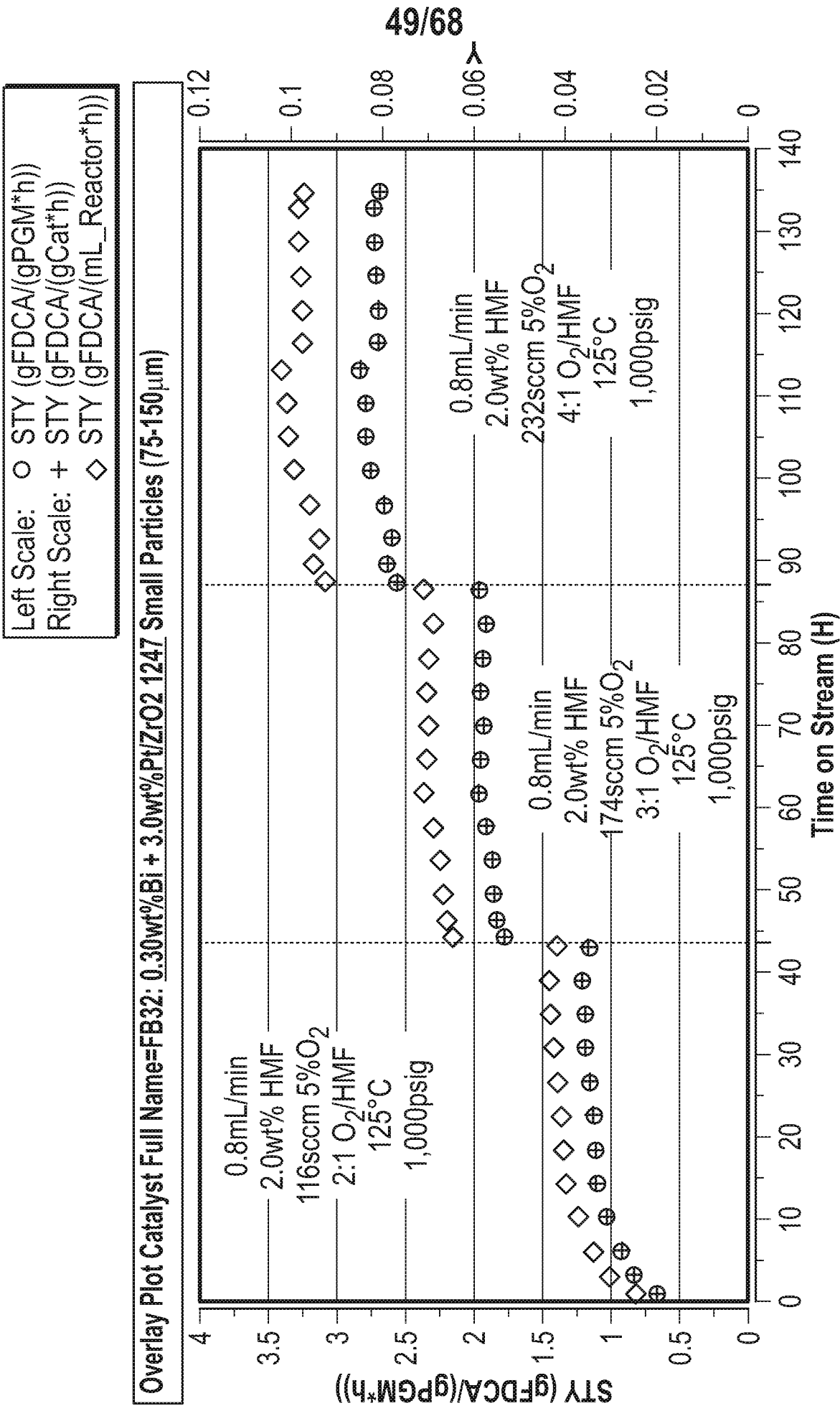


FIG. 49

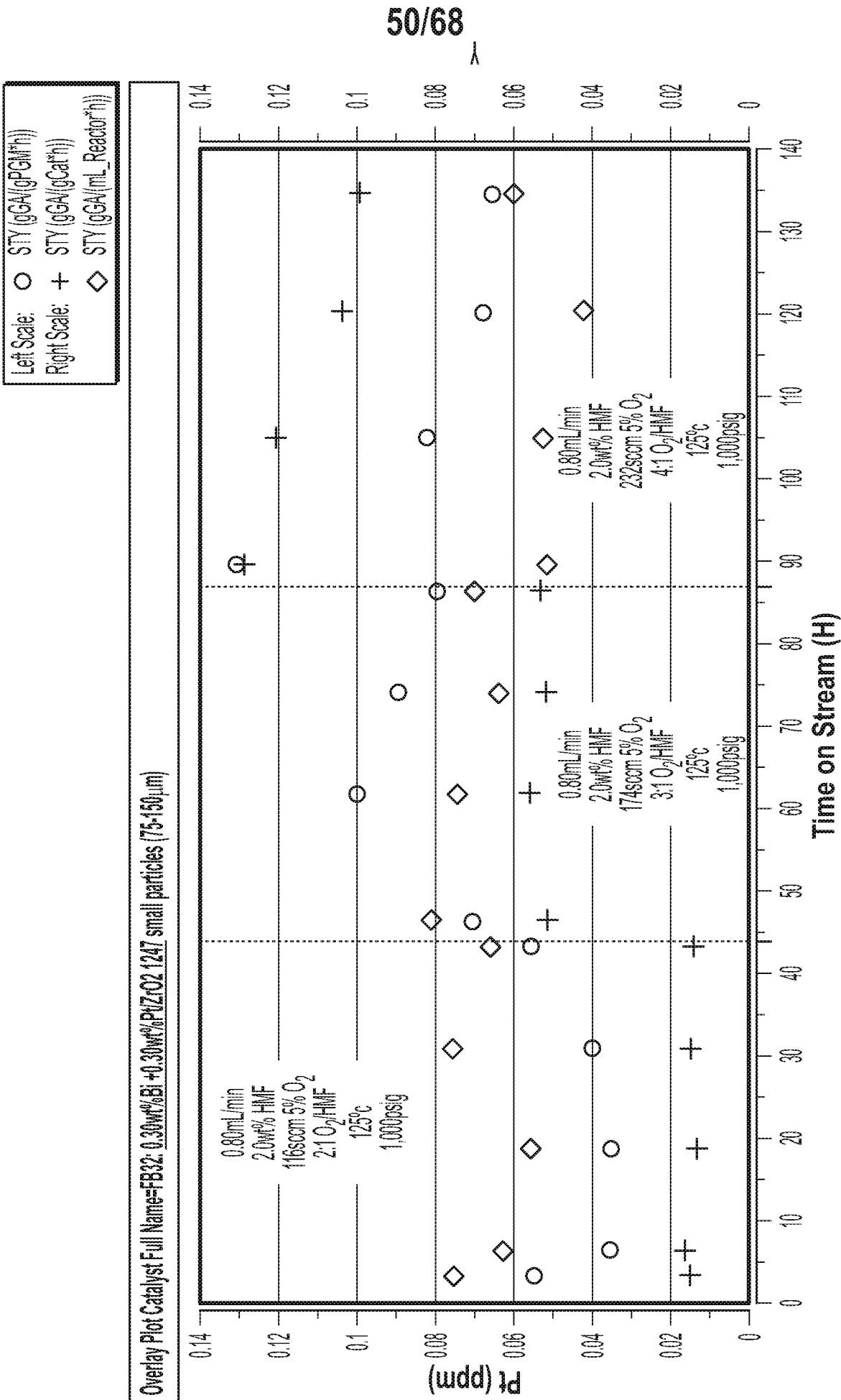
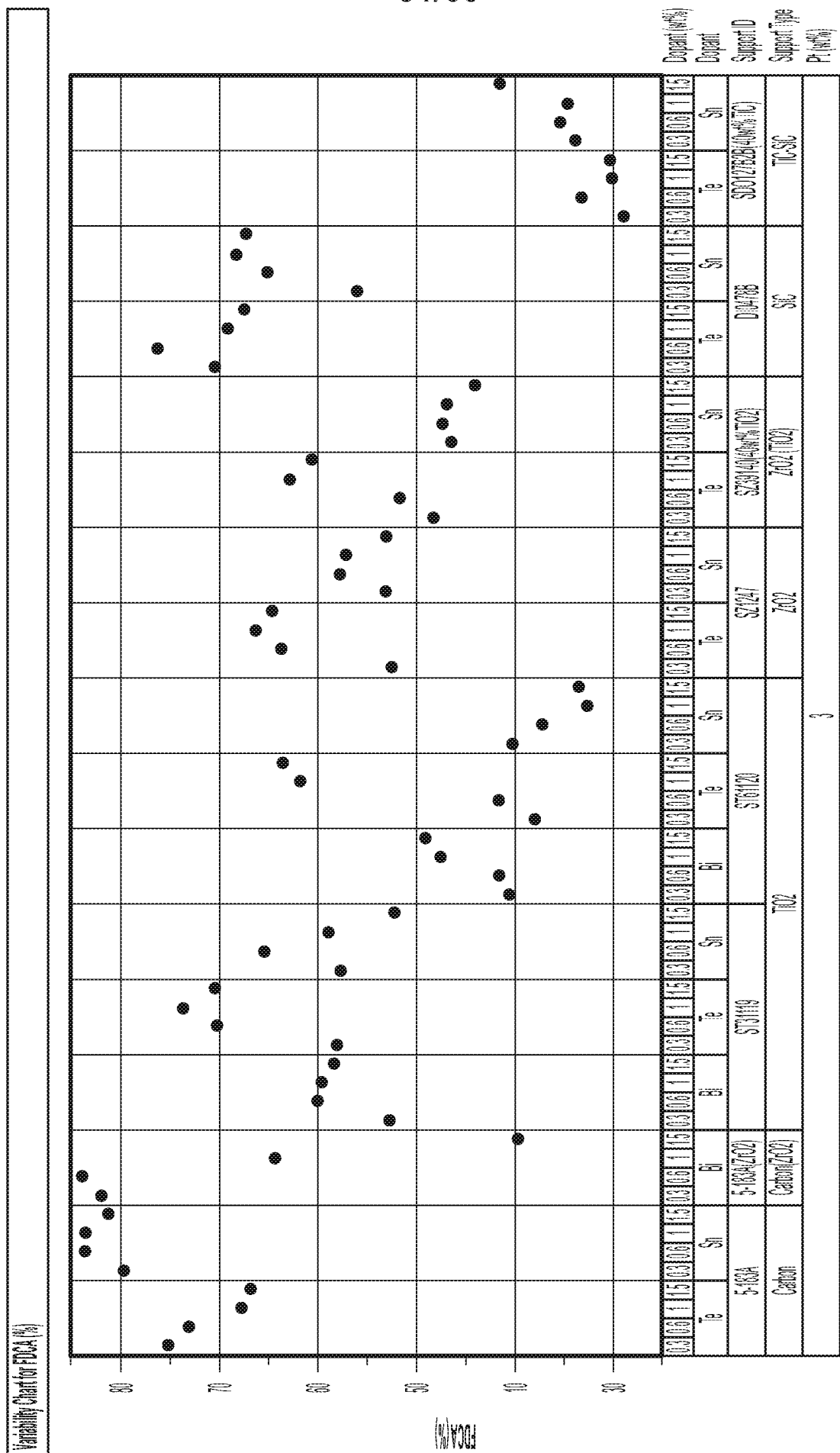


FIG. 50

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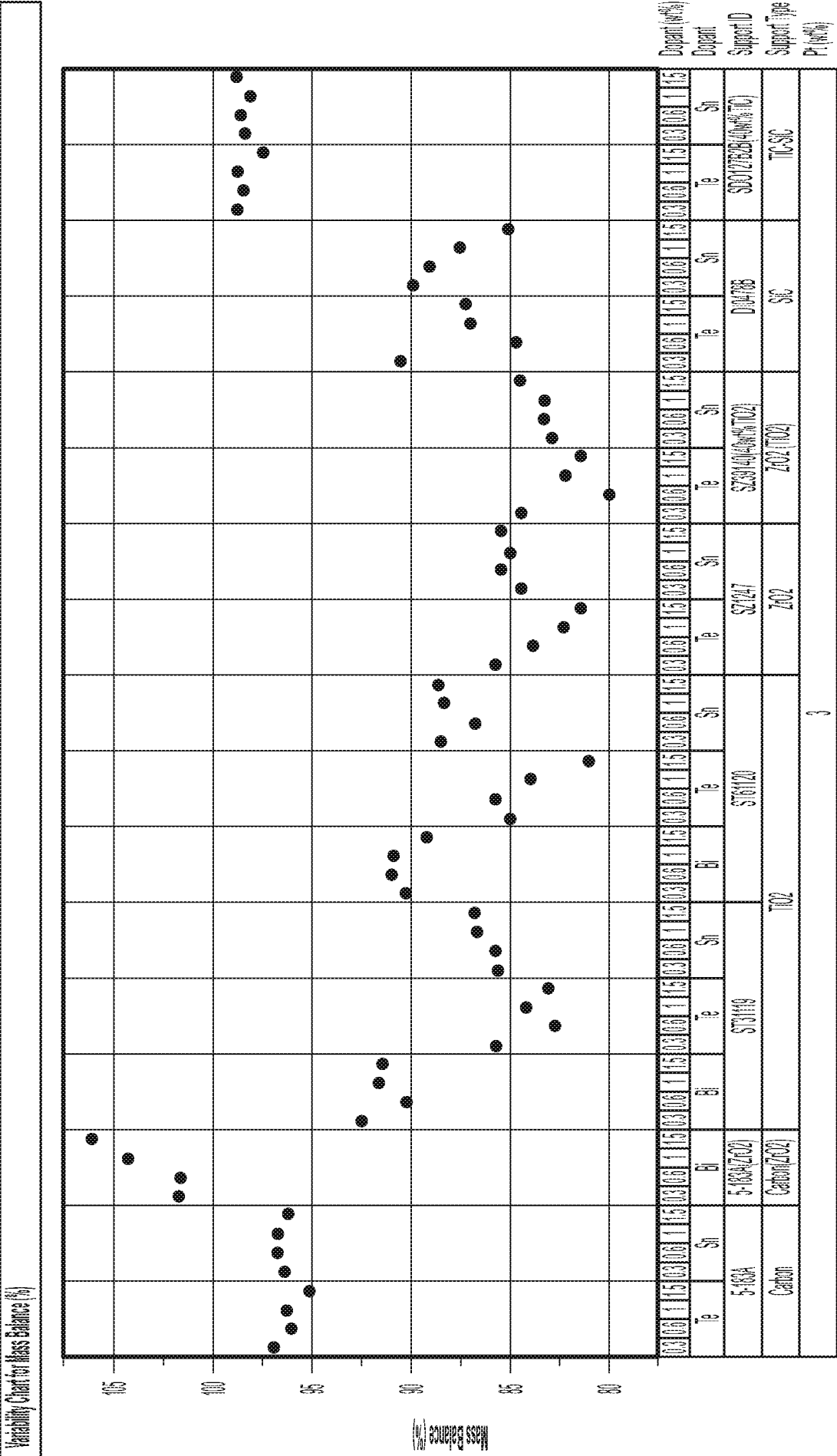
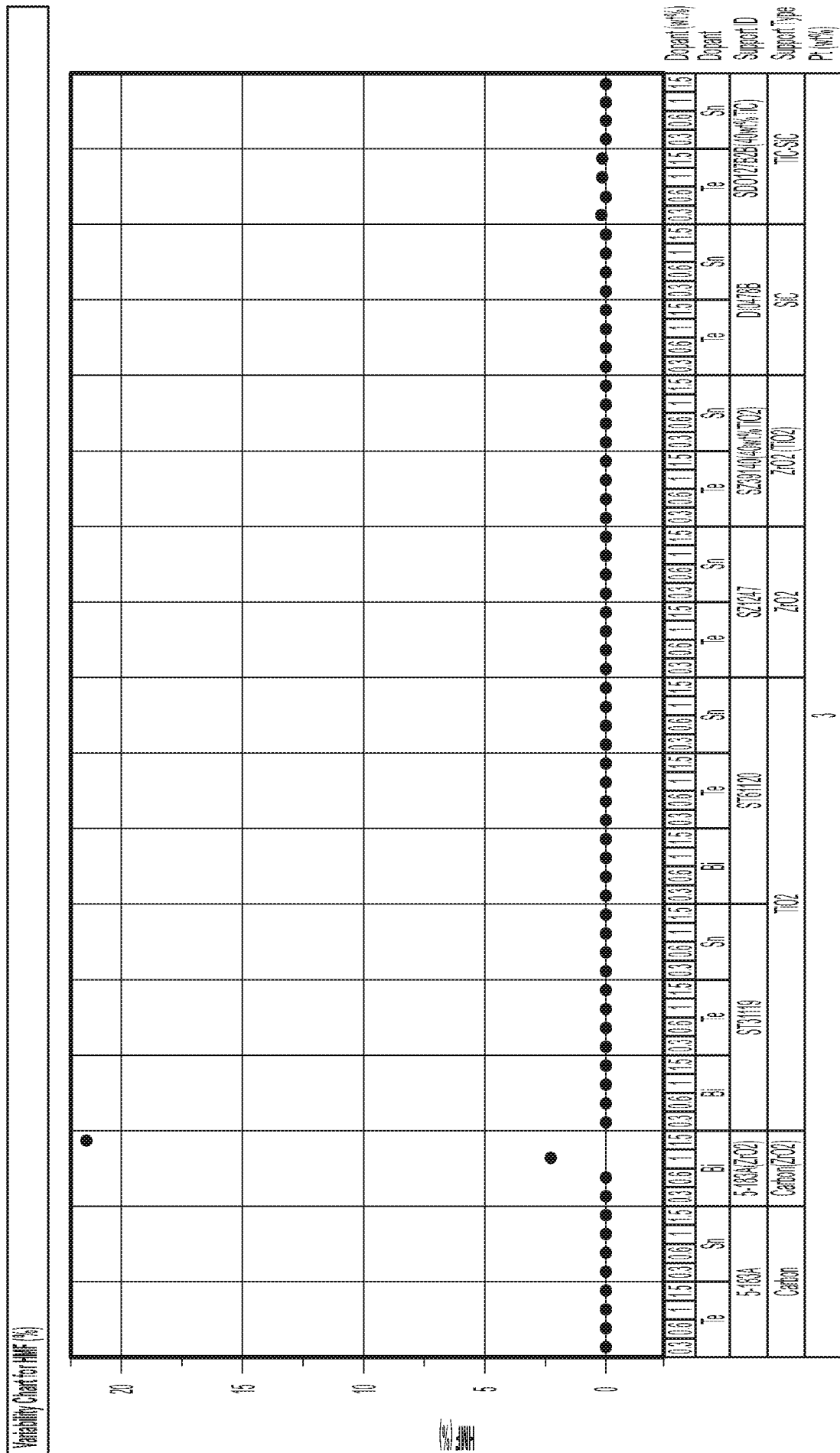


FIG. 52

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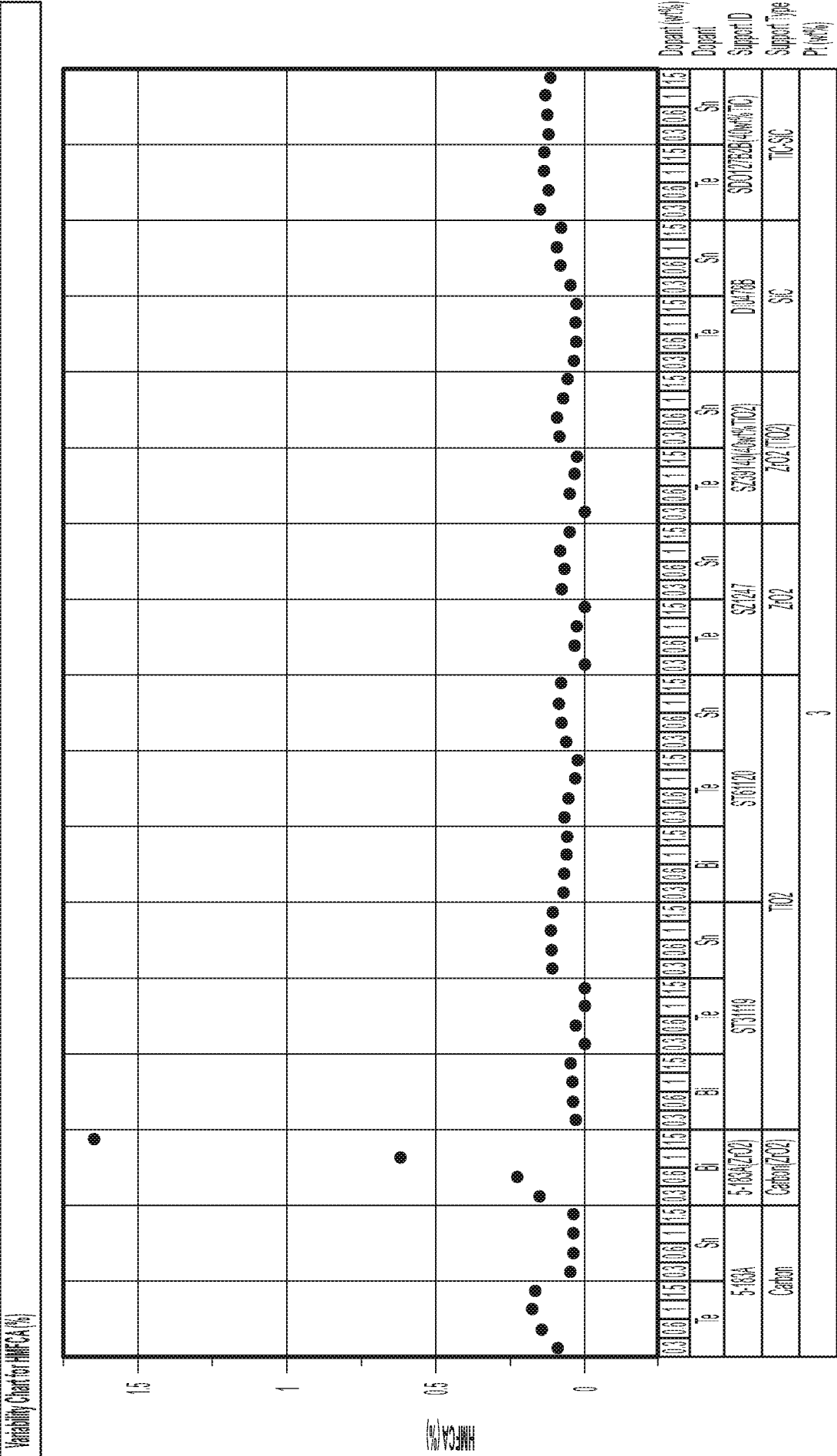
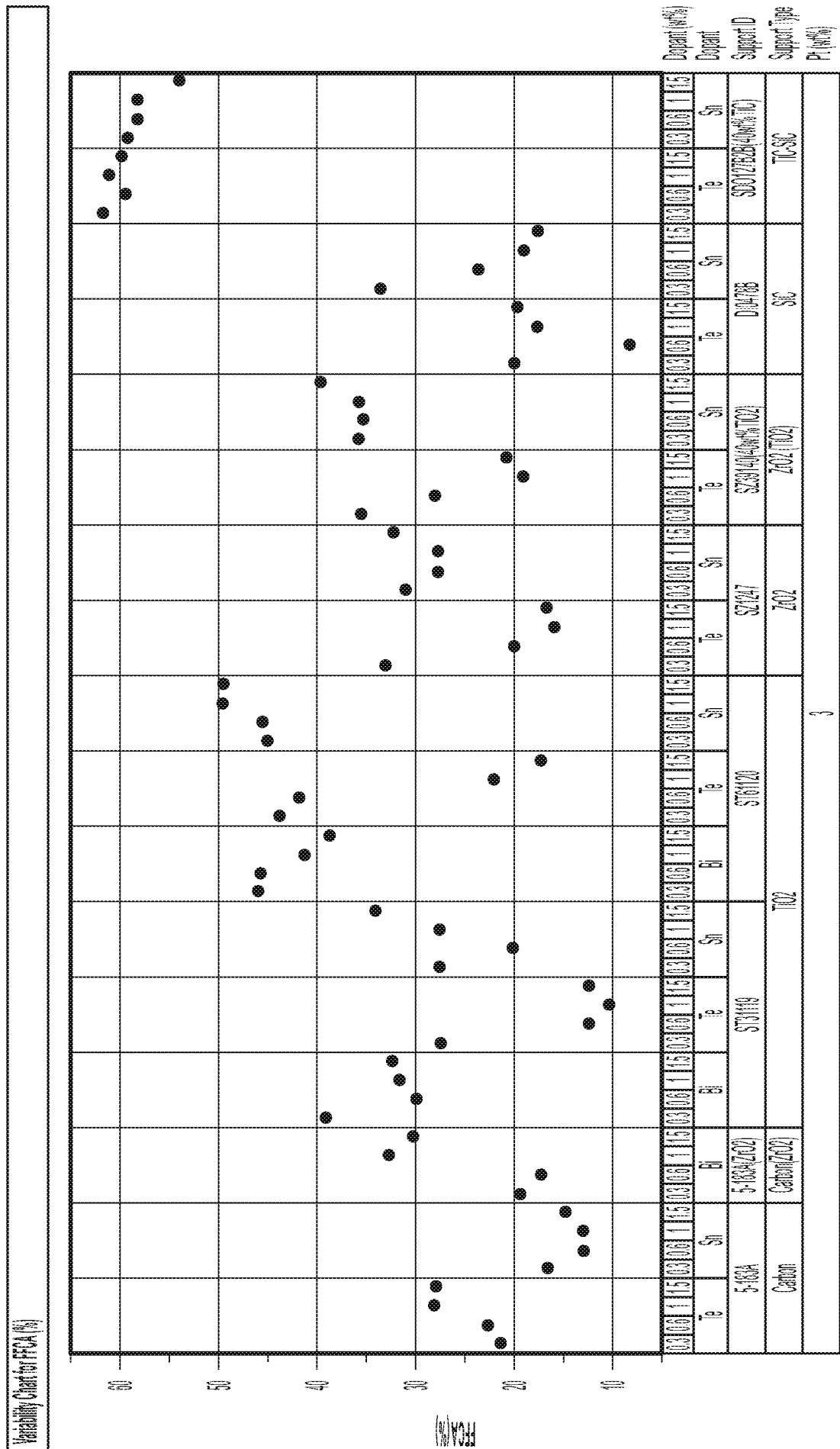
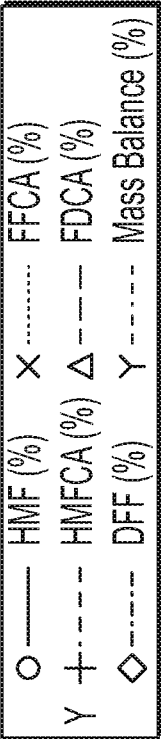


FIG. 54

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Overlay Plot Catalyst Full Name=FB53: 1.0wt%Bi+3.0wt%PtZirconia 1247 (75μm-150μm particles)

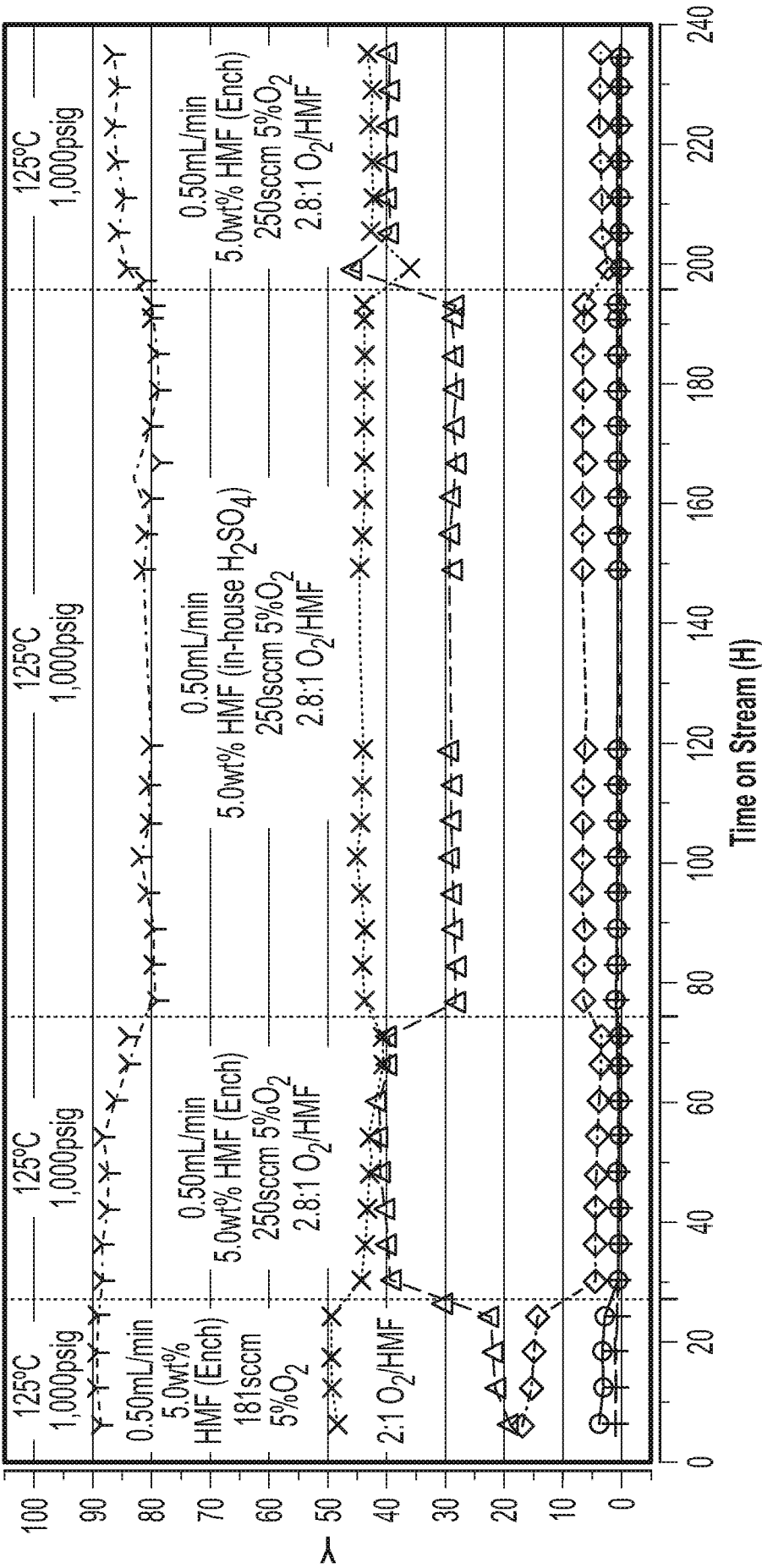
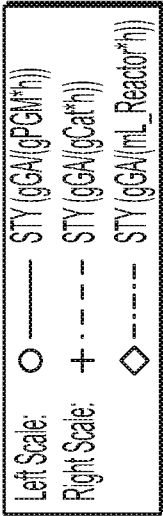


FIG. 56

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Overlay Plot Catalyst Full Name=FB63: 1.0wt%Bi+3.0wt%Pt/Zirconia 1247 (75 μ m-150 μ m particles)

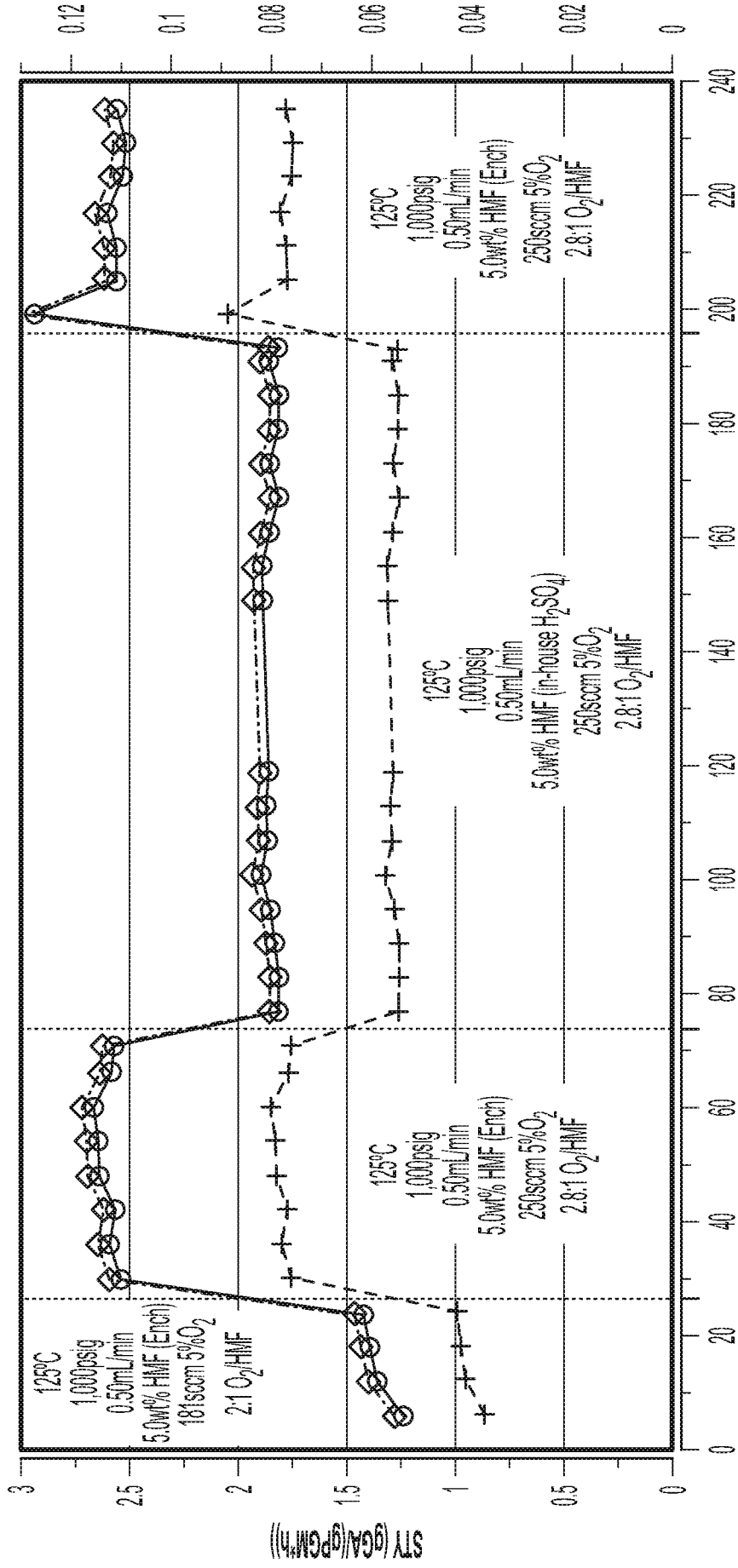
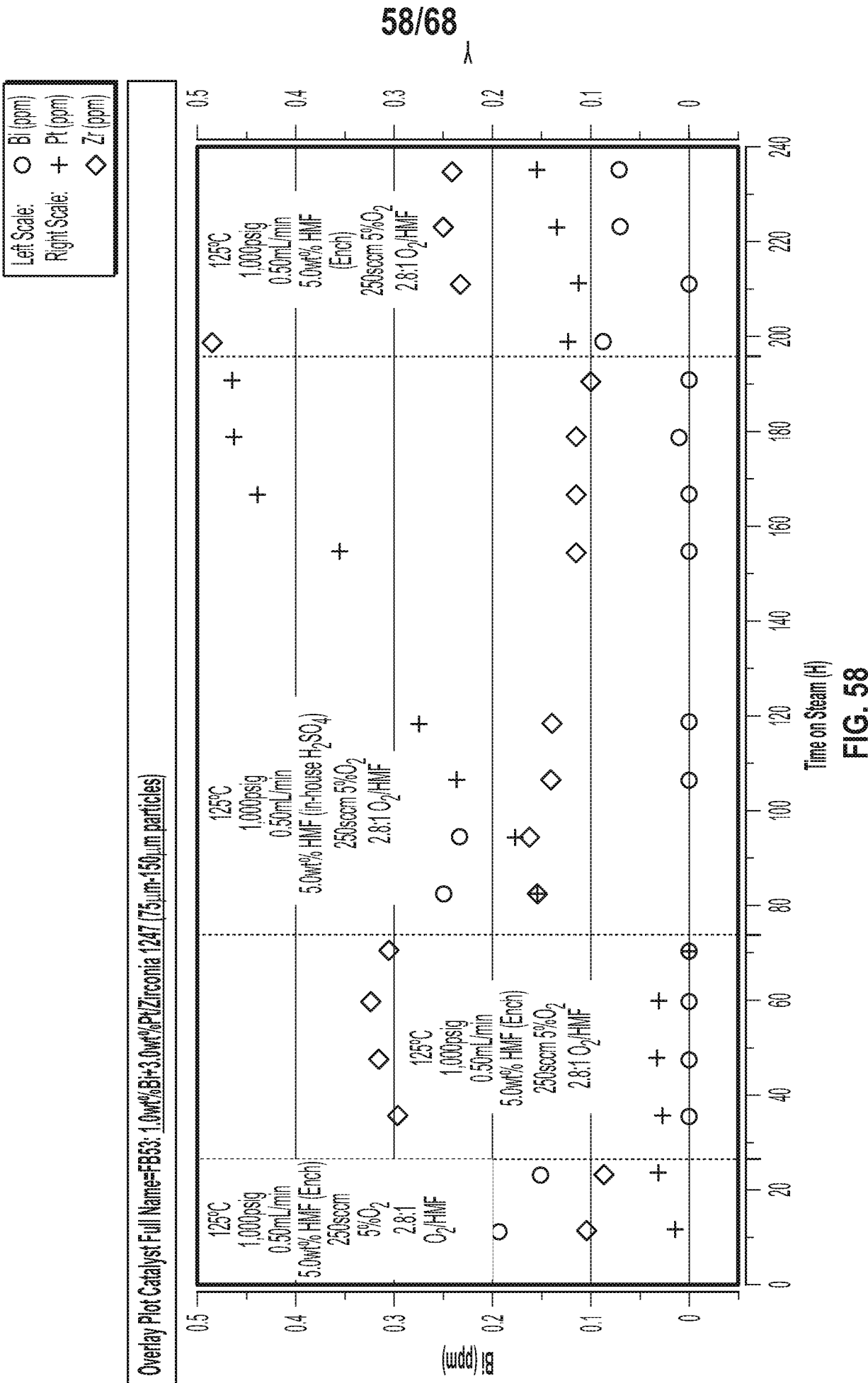
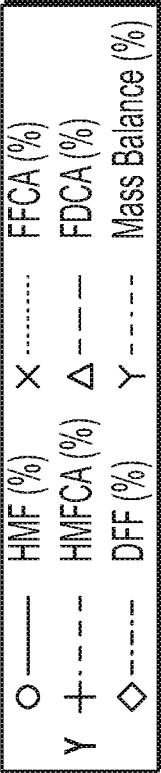


FIG. 57





Overlay Plot Catalyst Full Name=FB55: 1.5wt%Bi+3.0wt%Pt/Zirconia(TiO2) 39140 (75μm-150μm particles)

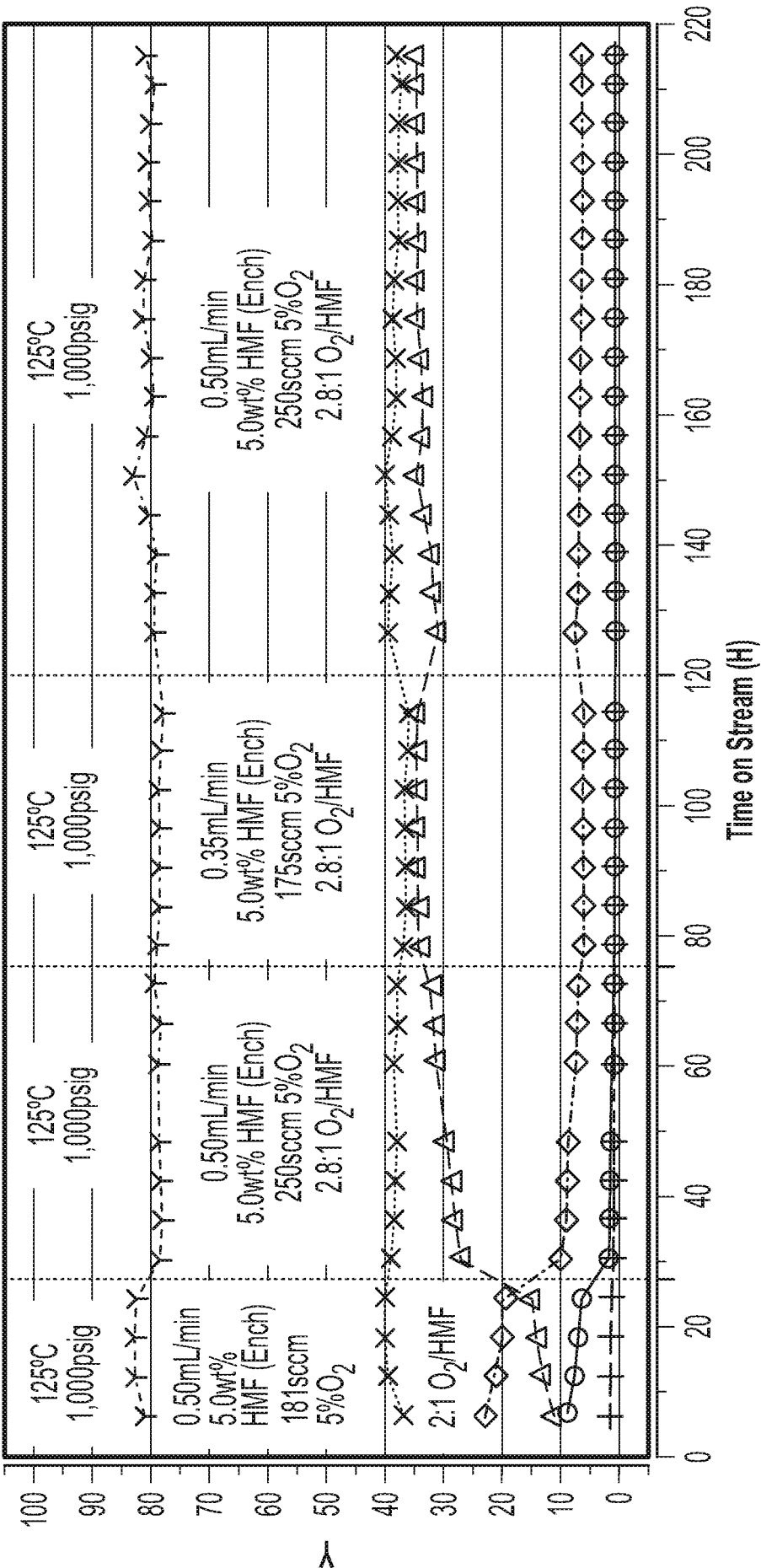
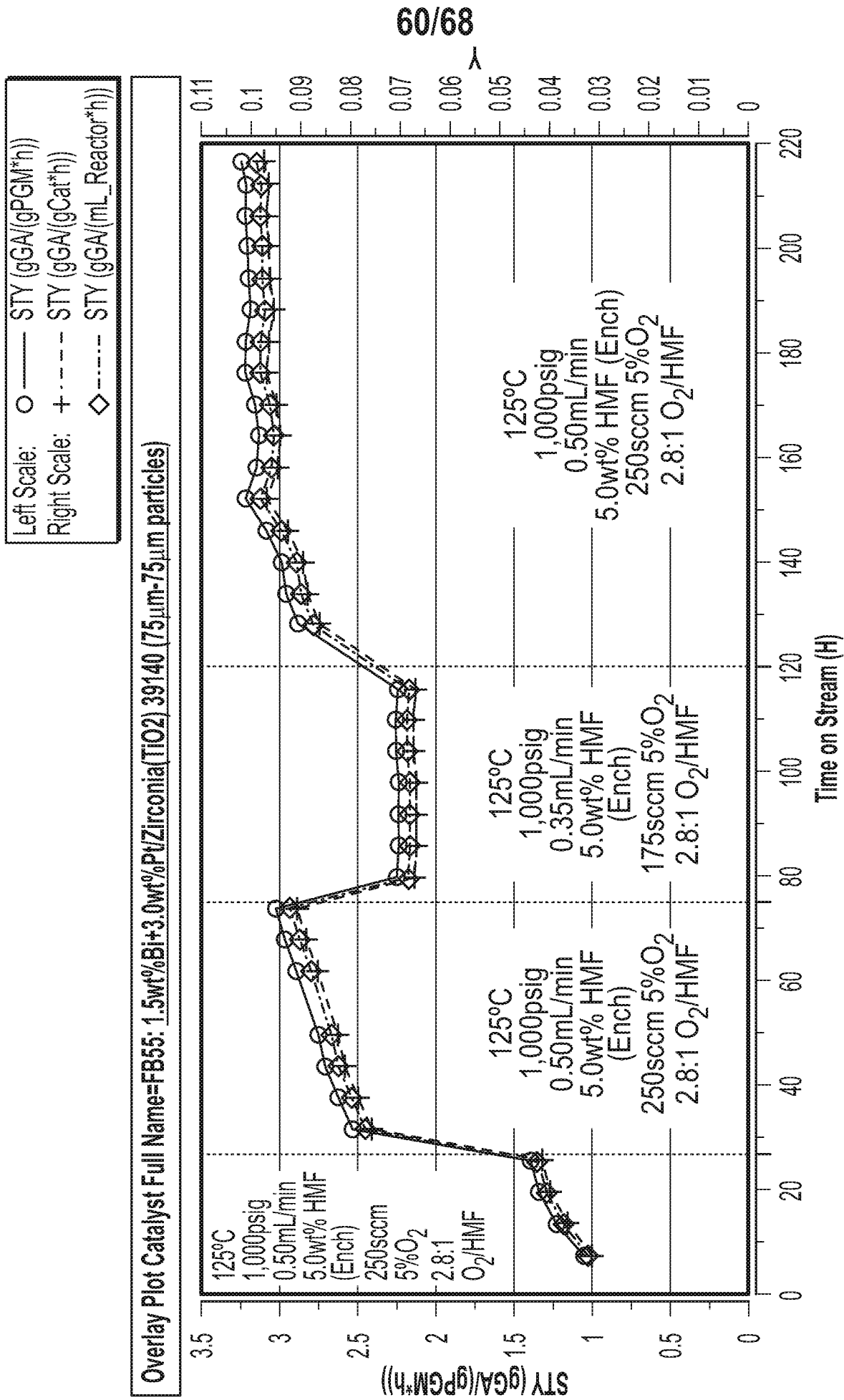


FIG. 59



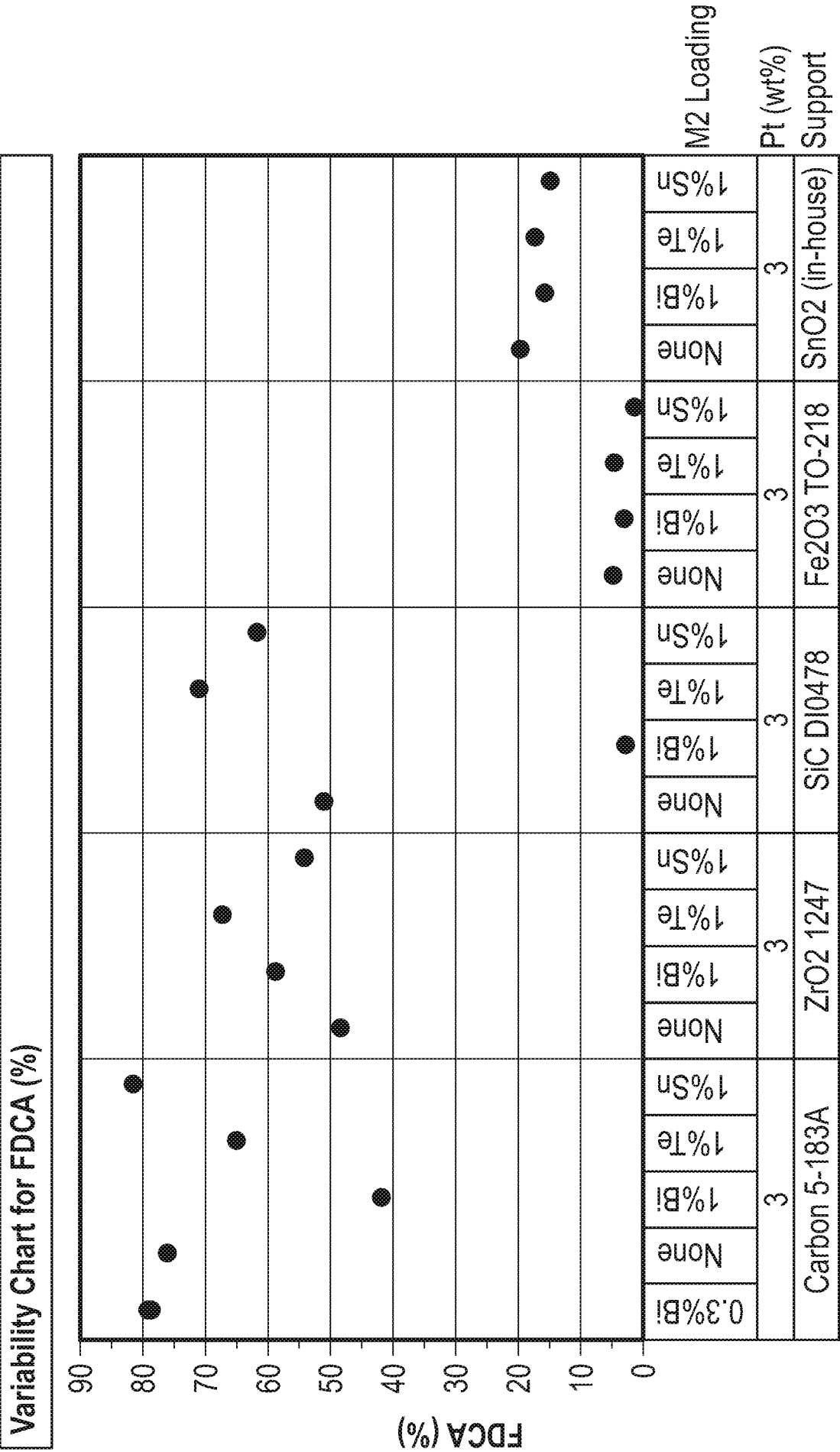


FIG. 61

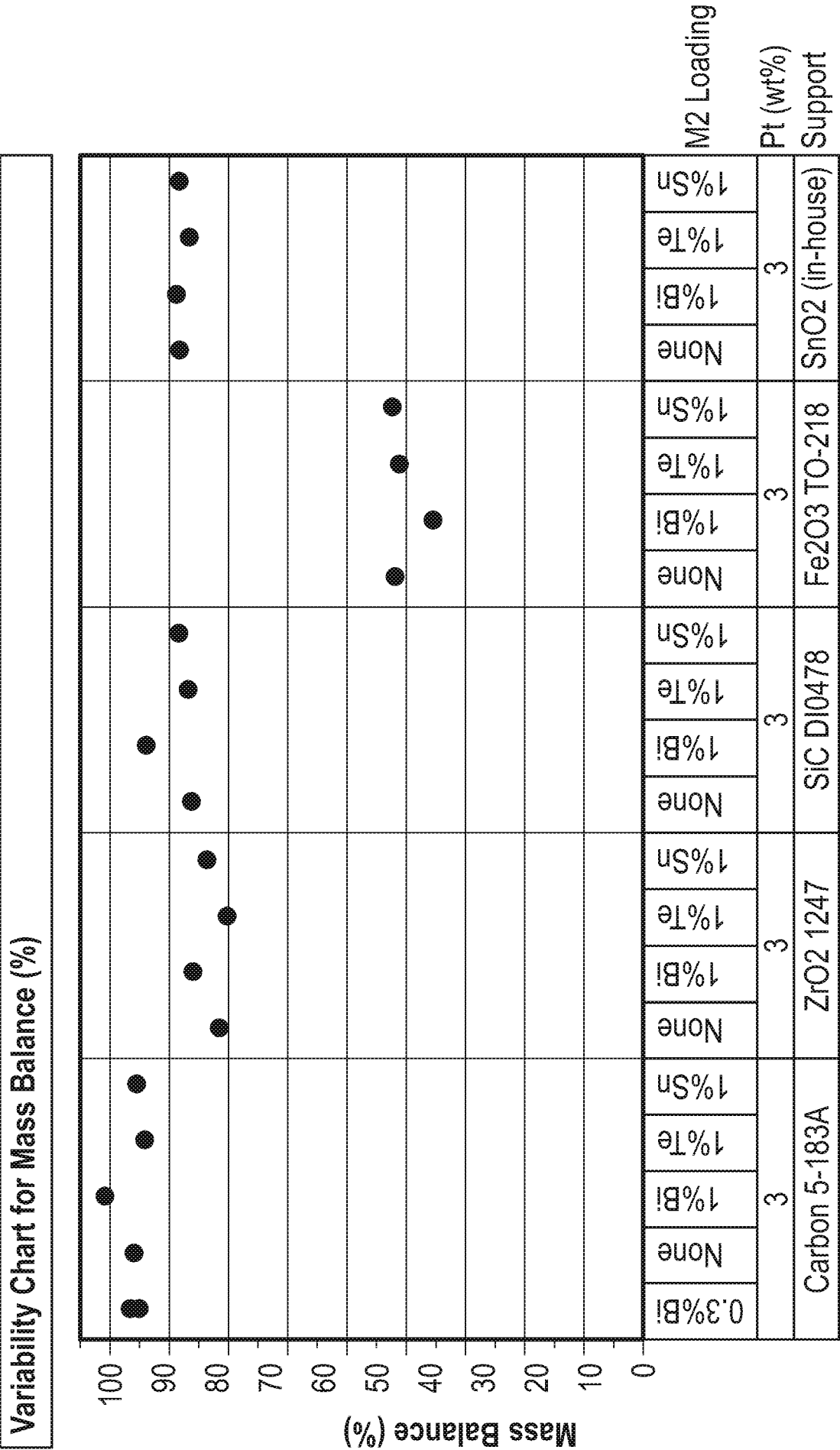


FIG. 62

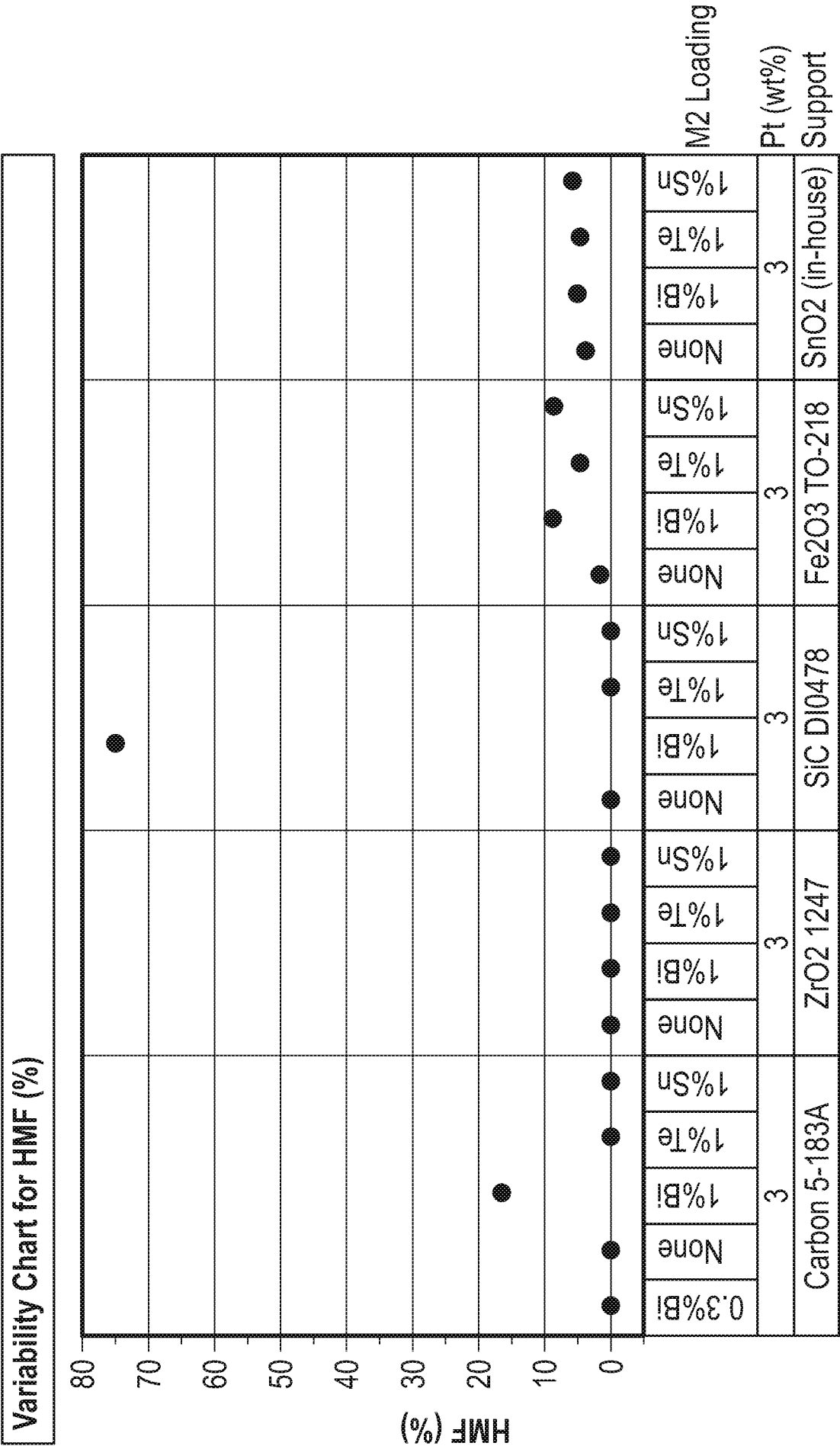


FIG. 63

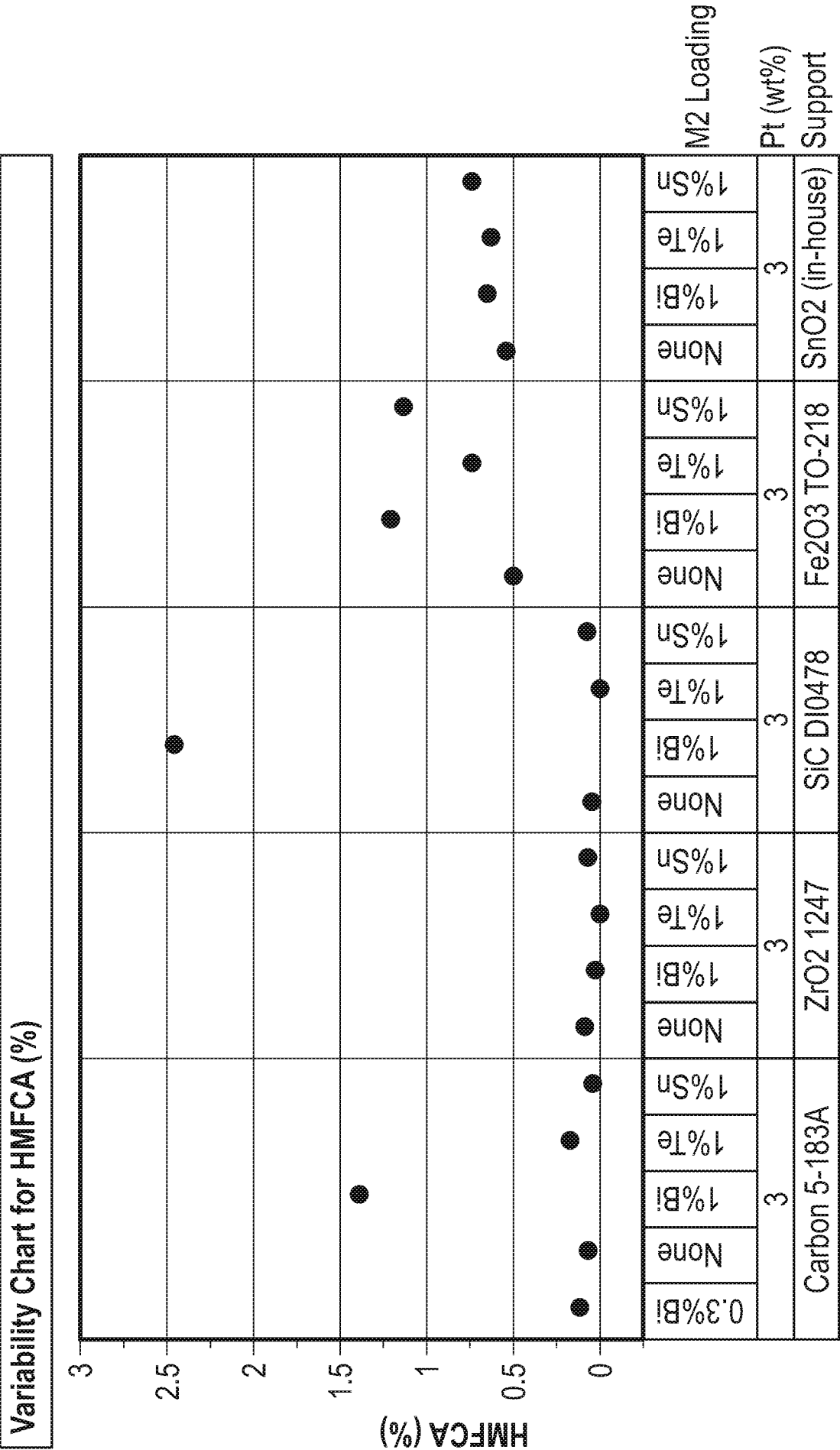


FIG. 64

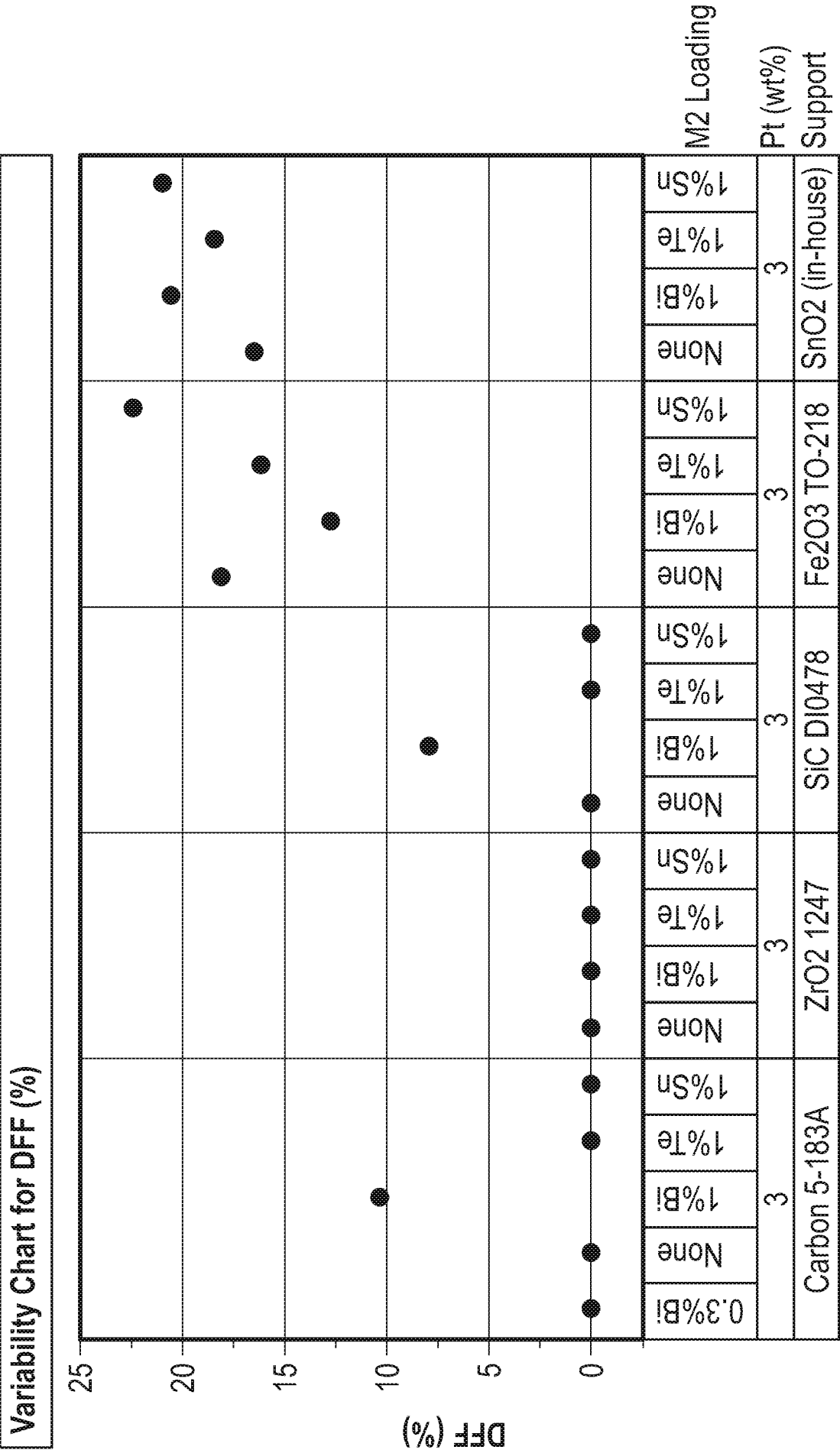


FIG. 65

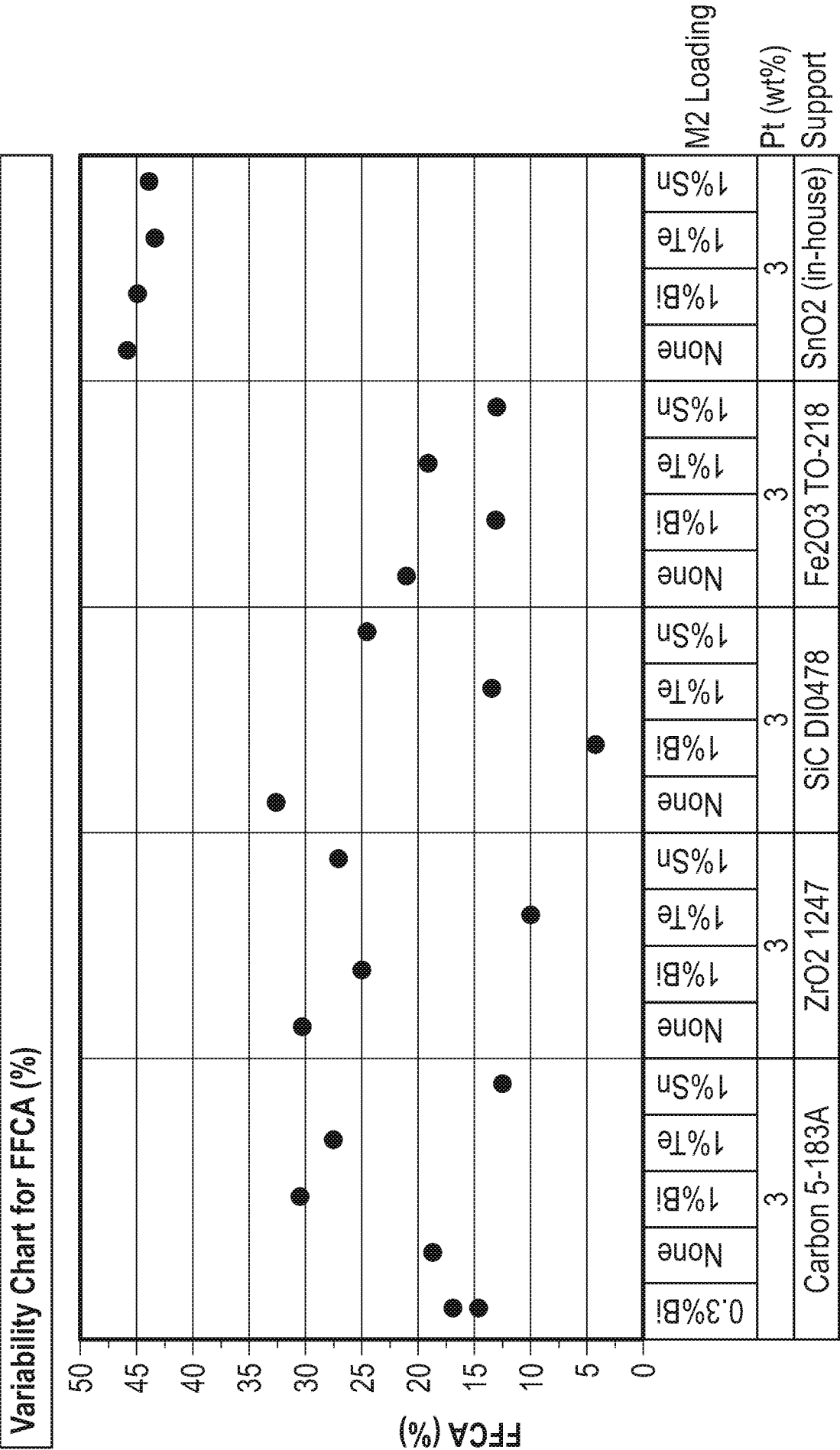
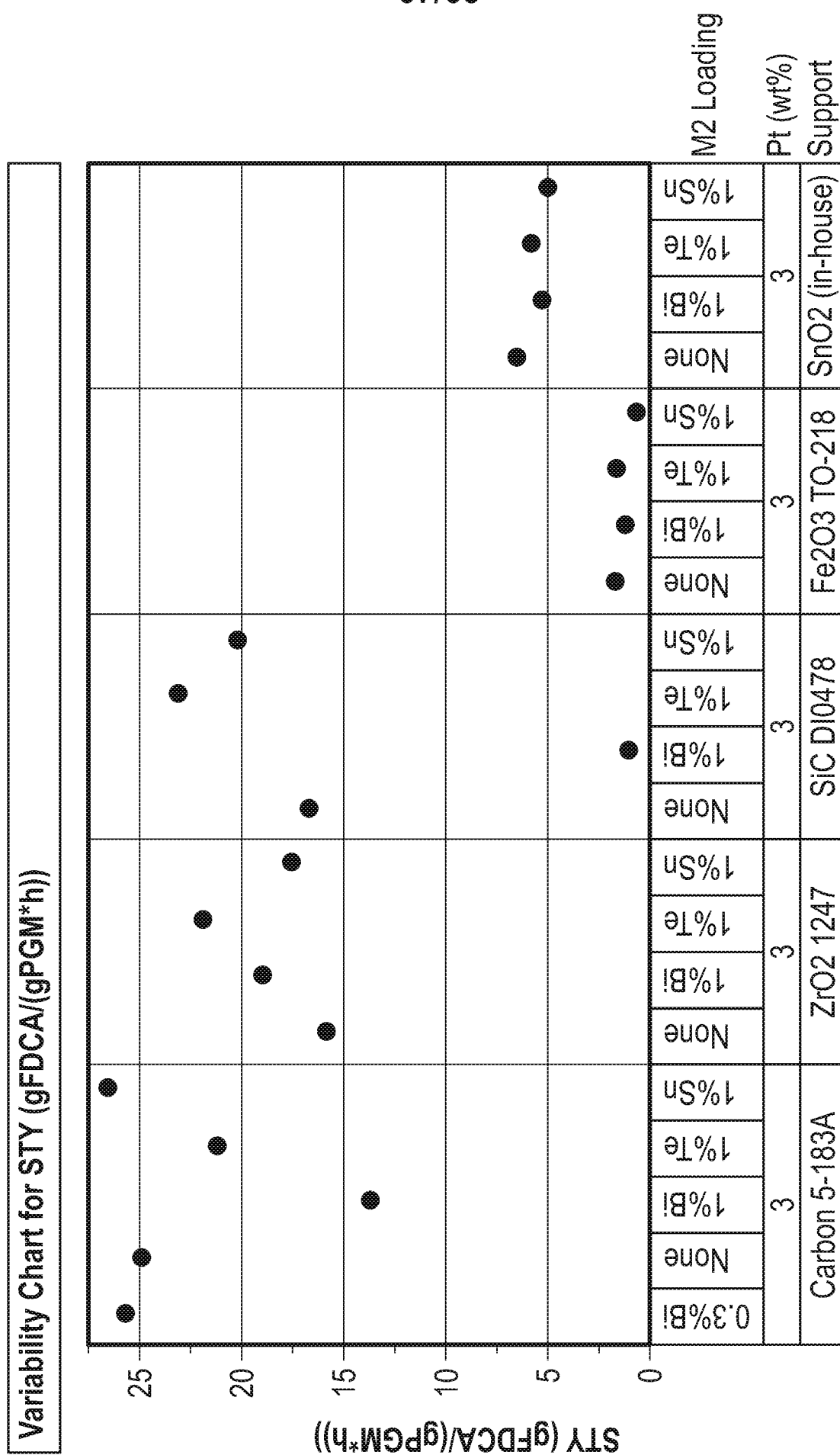


FIG. 66



69.6

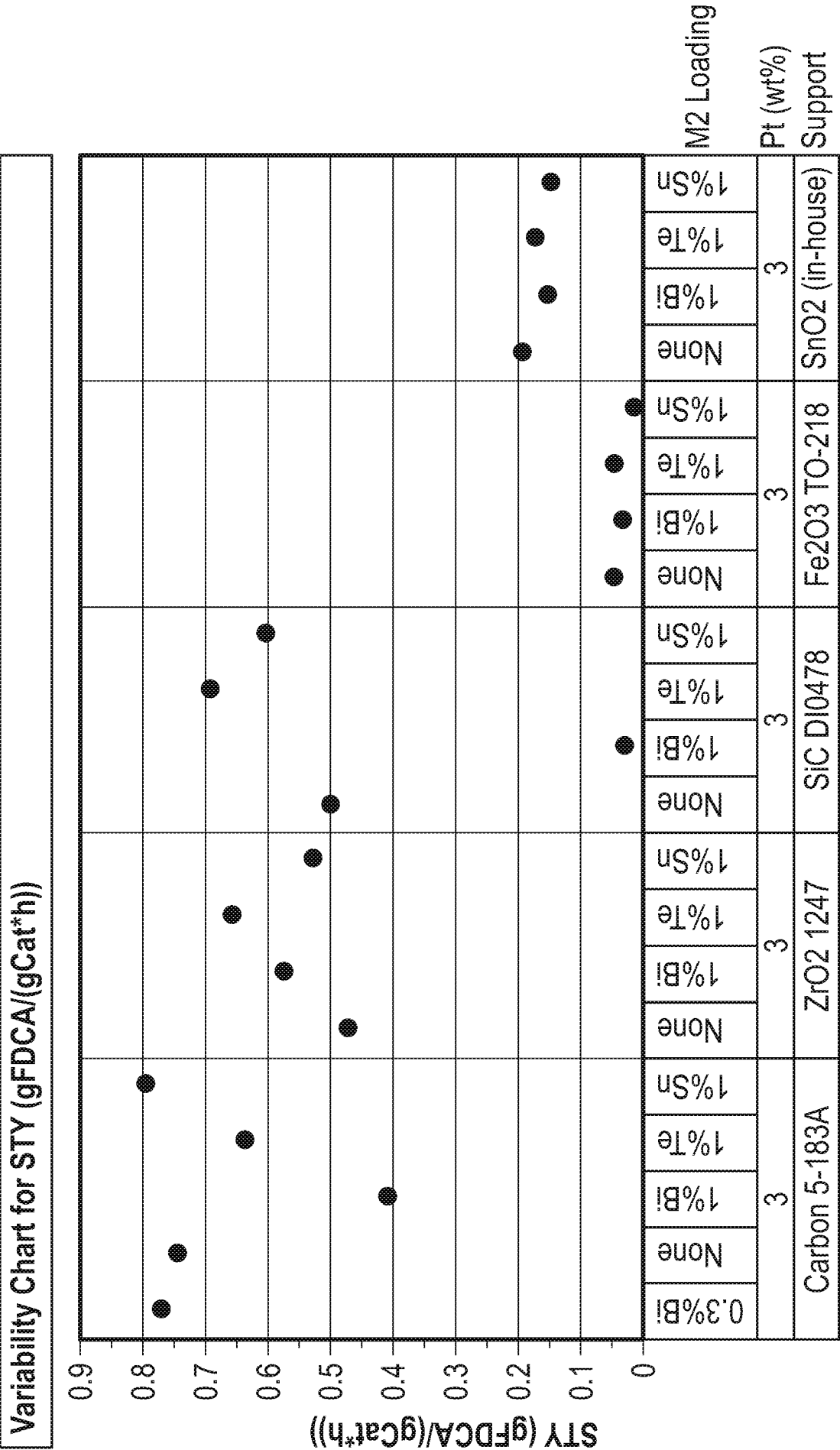


FIG. 68