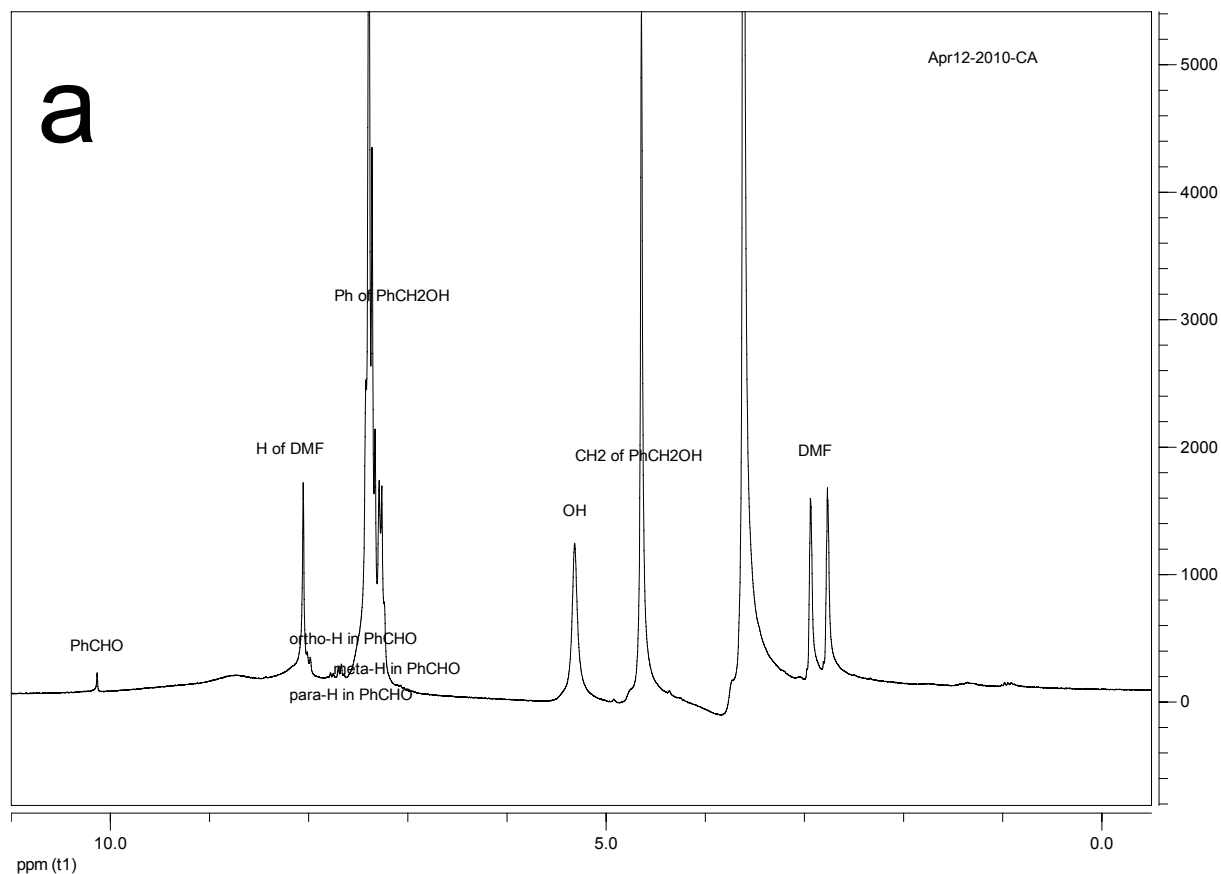
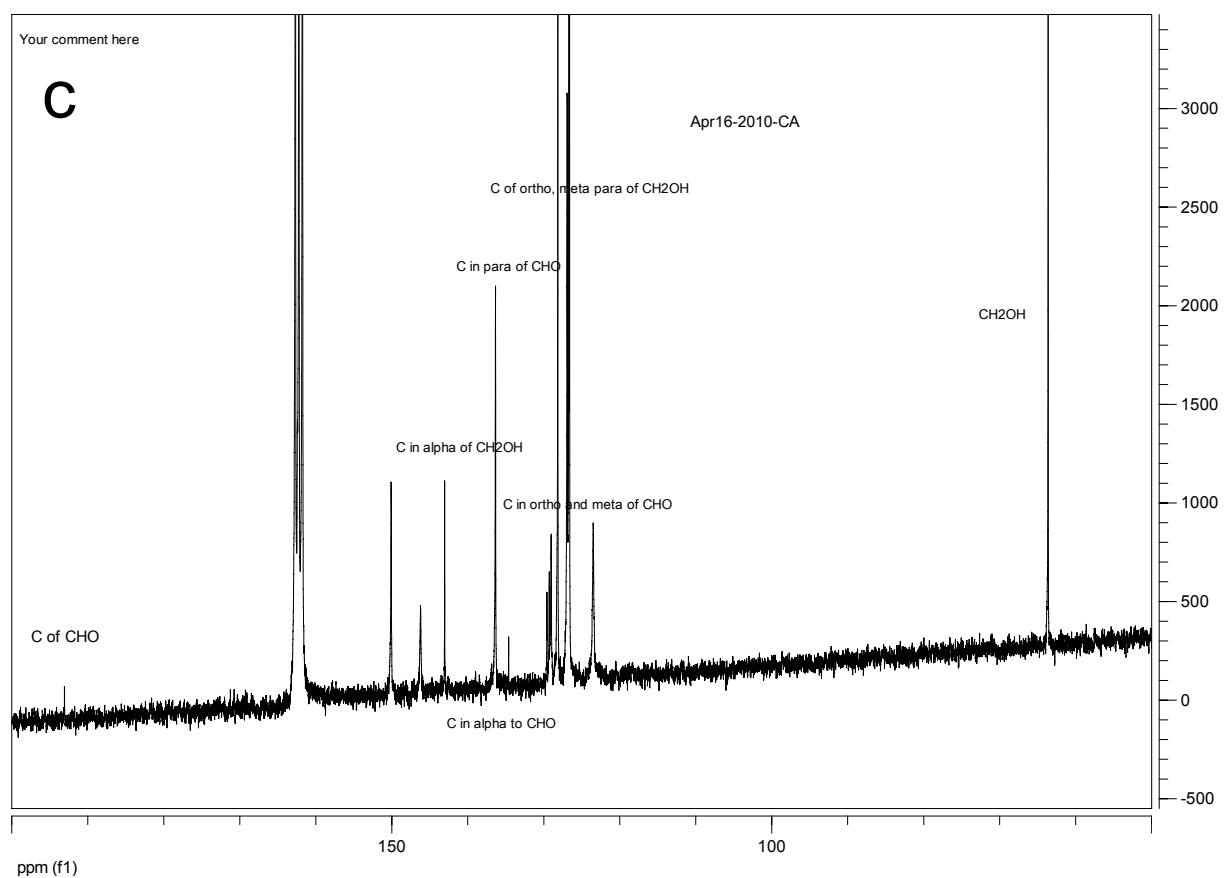
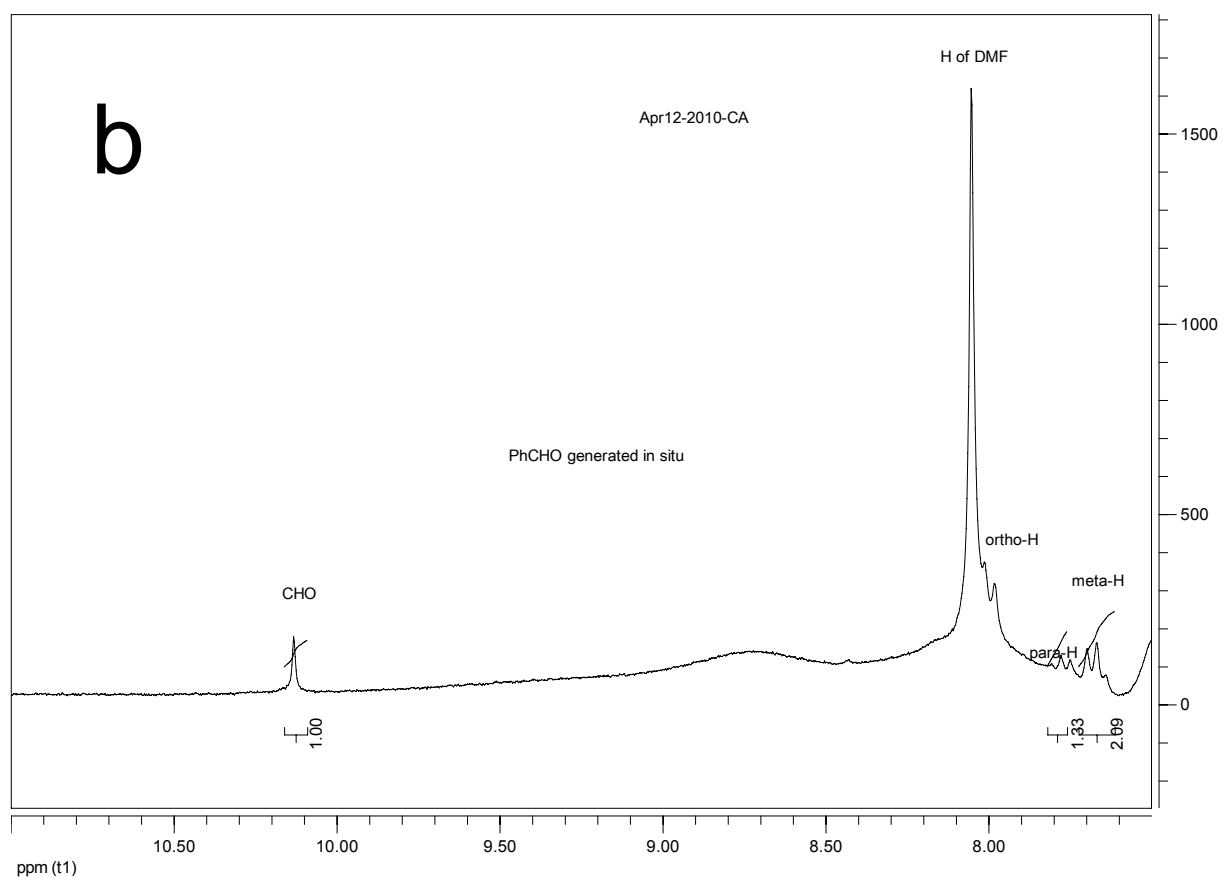


On the Origin of Copper(I) Catalysts from Copper(II) Precursors in C-N and C-O Cross-Couplings

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FigS1. a) ^1H NMR (250 MHz, TMS) of a solution of 0.5 mL of $\text{DMF-}d_7$ containing CuBr_2 (4.3 mg, 0.022 mmol), phenanthroline (7.5 mg, 0.044 mmol), PhCH_2OH (4.5 μL , 0.044 mmol) and Cs_2CO_3 (28.6 mg, 0.088 mmol), 60 h after mixing. b) Same as in a) but the scale has been expended in the area of the protons of PhCHO . c) ^{13}C NMR (62.89 MHz) of the same mixture as in a), 4 days after mixing. The conversion was slow due to the lack of stirring and low solubility of Cu(phen)_2^{2+} (see ref 22).