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## Saturation Recovery EPR of Square Planar Cupric Complexes.

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EPR saturation recovery (SR) measurements for a square planar cupric complex, CuKTSM2, and derivatives of CuKTSM2 in different solvents have been made at Xband at liquid helium temperatures (10 - 30 K). Whether single or multiple exponential SR signals were obtained depended on the solvent. In the hydrocarbon hydrophobic paraffin oil solvent, single exponential SR signals were observed, while in the polar water/DMSO mixture, SR signals showed double exponential decays. It is hypothesized that the multiexponential SR signals reflect different axial ligation of the cupric complexes.