

Complexes of the $[\text{Re}_6(\mu_3\text{-Se})_8]^{2+}$ core-containing clusters with the water-soluble 1,3,5-triaza-7-phosphaadamantane (PTA) ligand: Unexpected ligand protonation and related studies

Xiaoyan Tu,^a Gary S. Nichol,^a Ruiyao Wang,^b Zhiping Zheng^{a*}

^a Department of Chemistry, The University of Arizona, Tucson, Arizona 85721

Email: zhiping@u.arizona.edu

^b Department of Chemistry, Queen's University, 90 Queen's Crescent, Kingston, Ontario, Canada, K7L 3N6

EPR experiment of Compound 3.

The experimental conditions (ref. 1) were as follows:

Microwave frequency: 9.335 GHz;

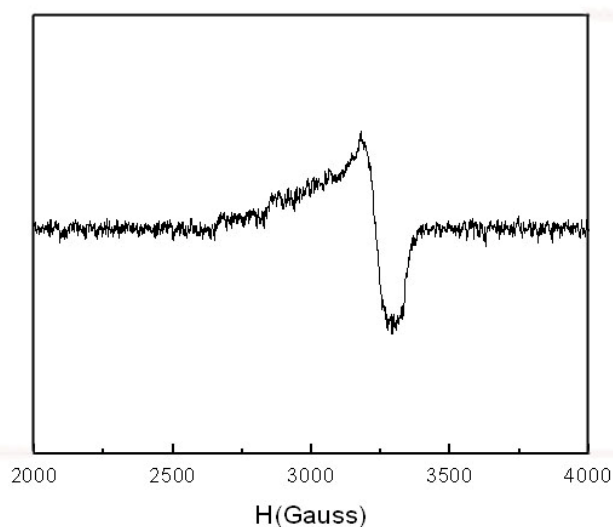
Microwave power: 50 uW

Field modulation amplitude: 4 G;

Temperature: 4.2 K

Sample: complex **3**

Concentration: 0.33 mM (Each complex **3** has two P5PTAH units in it)



The peak shown in the above figure is due to Cu(II) ion.

Reference:

Zheng, Gray, Holm, *Inorg. Chem.* **1999**, *38*, 4885-4895.