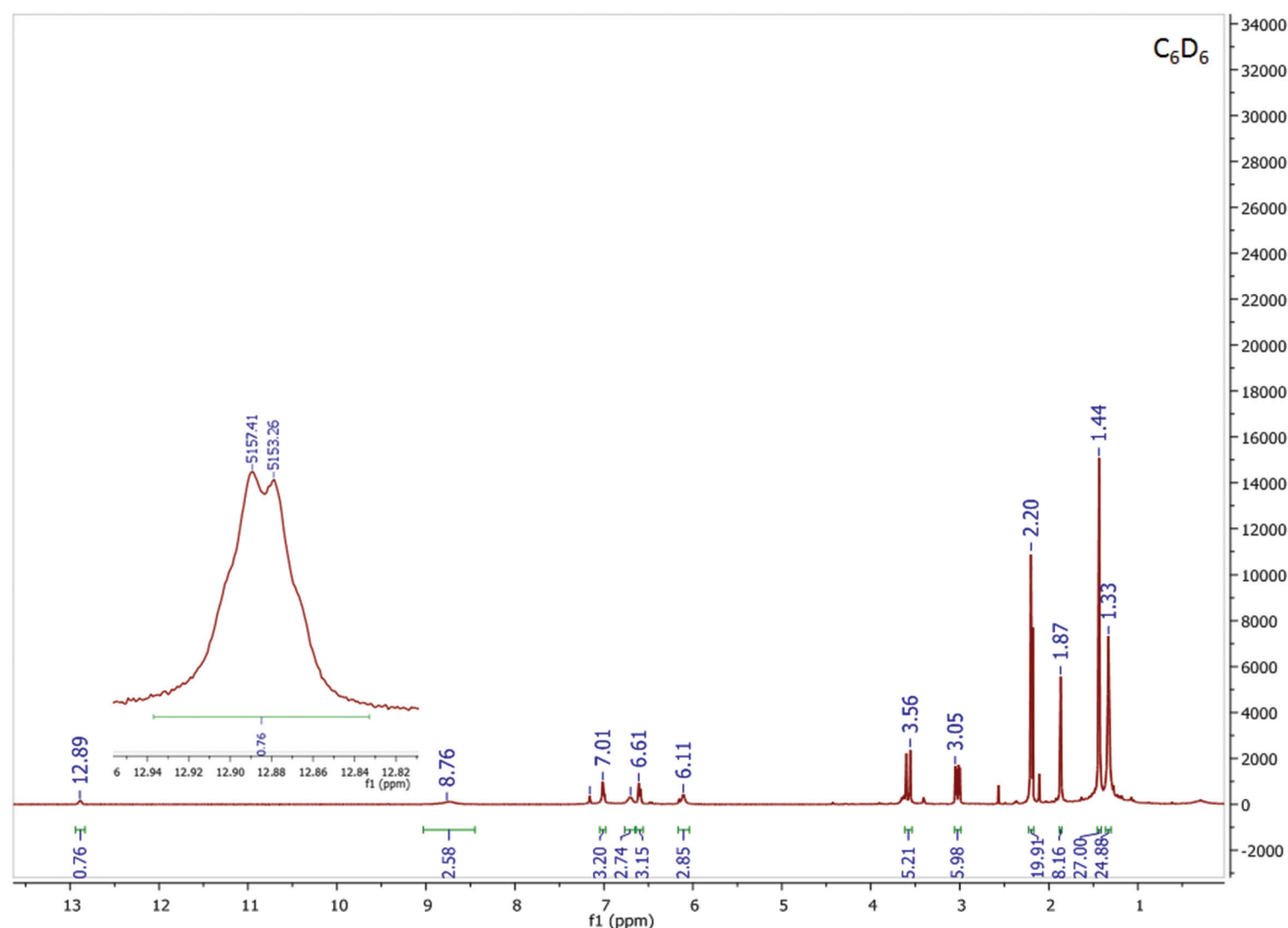




# nmr is science



*Redox active tantalum organometallic complex*

**Alexander Erickson, 2016**

Chemistry and Biochemistry Department | University of Notre Dame

**Field strength:** 400 MHz

**Why is this your favorite spectrum?**

Though a reaction in progress, I like this spectrum because of the peak at ~12.8 ppm. This peak appears as a quartet with a coupling constant of 4.2 Hz. This peak appears as such because the proton should have a coupling constant of ~12 Hz but is exchanging between 3 sites. The 4.2 Hz coupling is the average of the sites (being 12+0+0).