

SUPPLEMENTARY INFORMATION

Reactions of Manganese and Rhenium Complexes with Organic Azides: Preparation of Tetraazabutadiene Derivatives

Gabriele Albertin,^{*a} Stefano Antoniutti,^a Alessia Bacchi,^b Alessandro Celebrin,^a Giancarlo Pelizzi^b and Gianluigi Zanardo^a

^a*Dipartimento di Chimica, Università Ca' Foscari di Venezia, Dorsoduro, 2137, 30123 Venezia, Italy*

^b*Dipartimento di Chimica Generale ed Inorganica, Chimica Analitica, Chimica Fisica, Università di Parma, Parco Area delle Scienze, 17/a, 43100 Parma, Italy*

NMR ANALYSIS

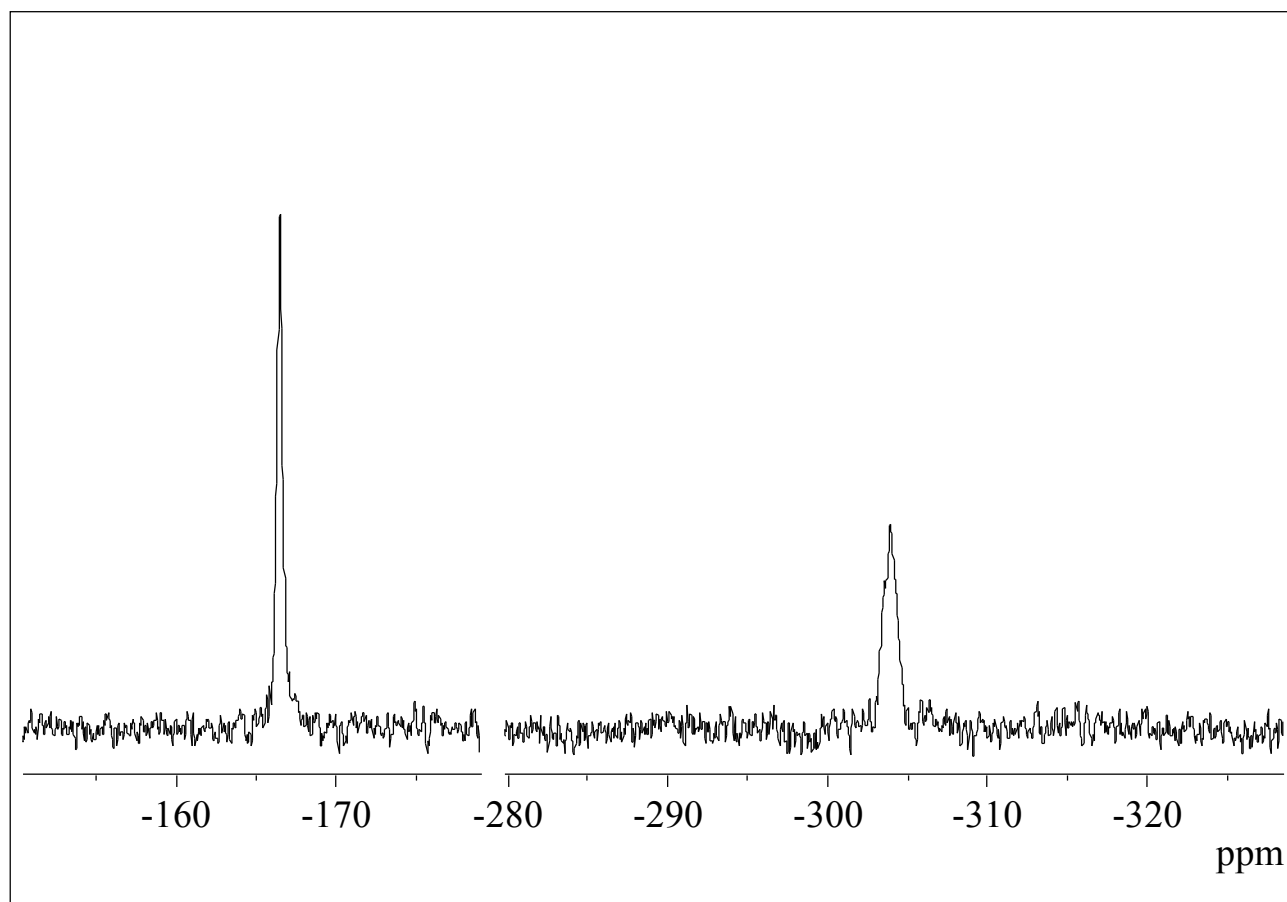


Figure S1: ¹⁵N NMR spectrum of the free ligand C₆H₅CH₂¹⁵NN¹⁵N in CD₂Cl₂ at 298 K.

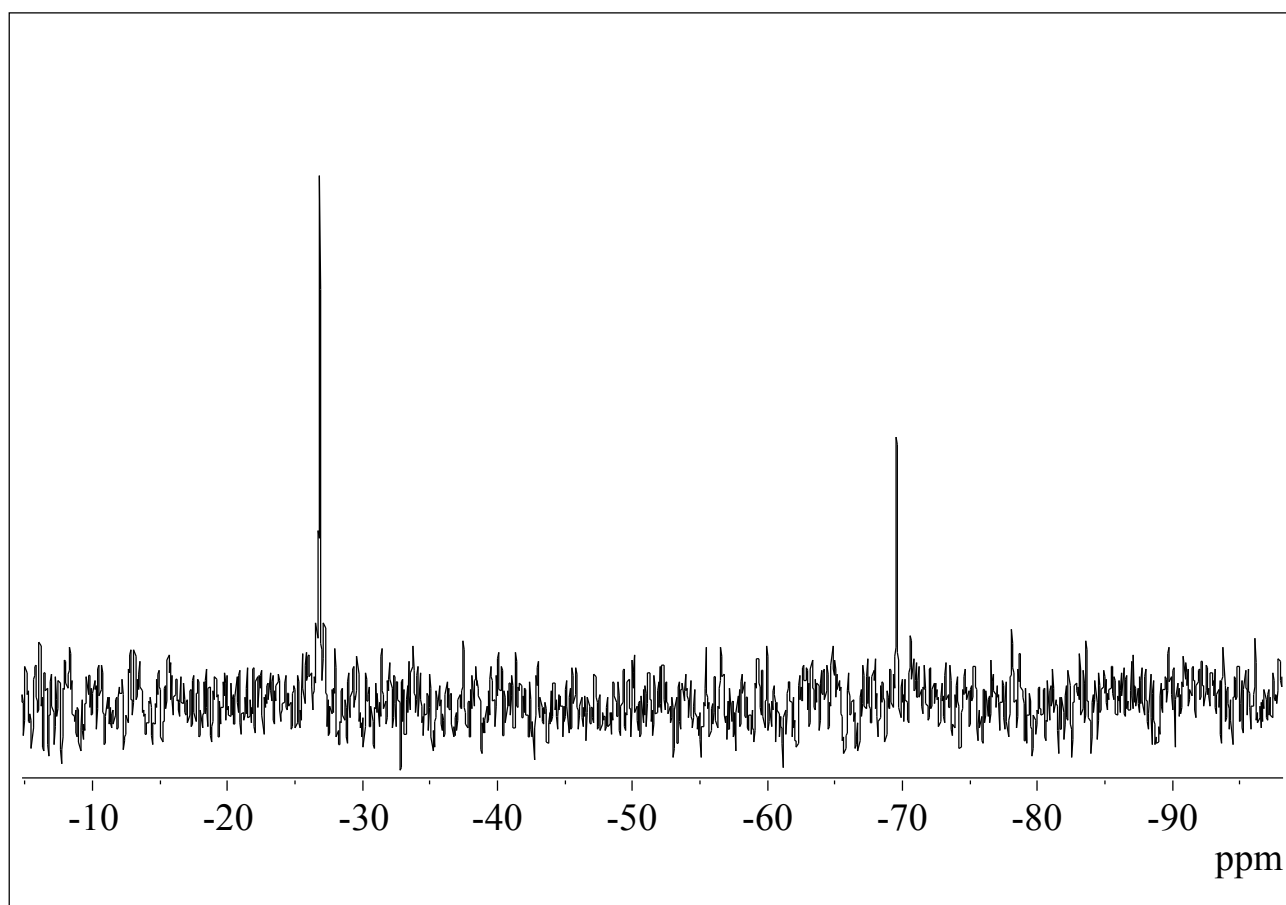


Figure S2: ^{15}N NMR spectrum of complex $[\text{Re}(\text{C}_6\text{H}_5\text{CH}_2^{15}\text{N}_3)(\text{CO})_3\{\text{PPh}(\text{OEt})_2\}_2]\text{BPh}_4$ **2a₁** in CD_2Cl_2 at 298 K.

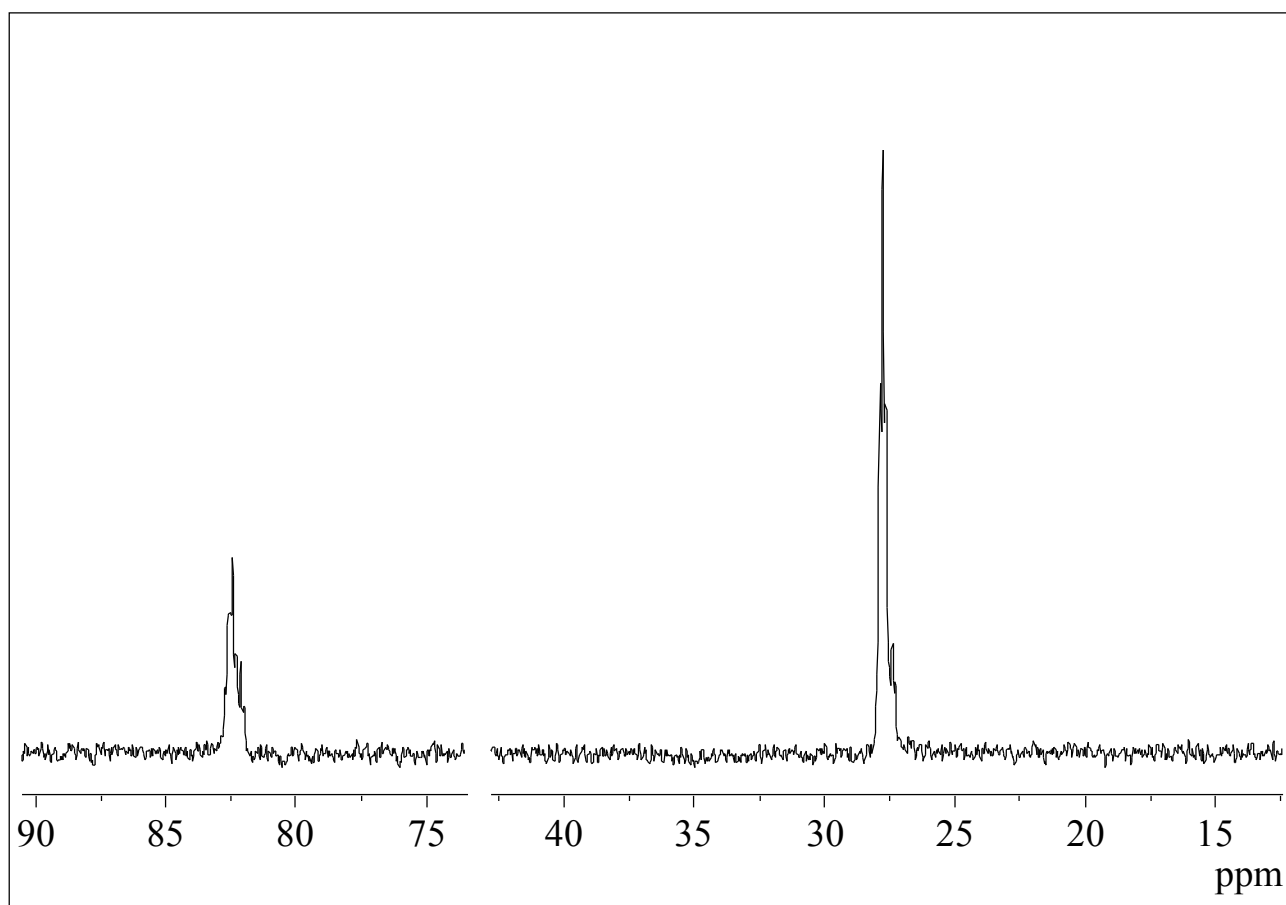


Figure S3: ^{15}N NMR spectrum of complex $[\text{Mn}\{\eta^2\text{-1,4-(C}_6\text{H}_5\text{CH}_2)_2^{15}\text{N}_4\}(\text{CO})_2\{\text{PPh}(\text{OEt})_2\}_2]\text{BPh}_4$ **4a₁** in CD_2Cl_2 at 298 K.

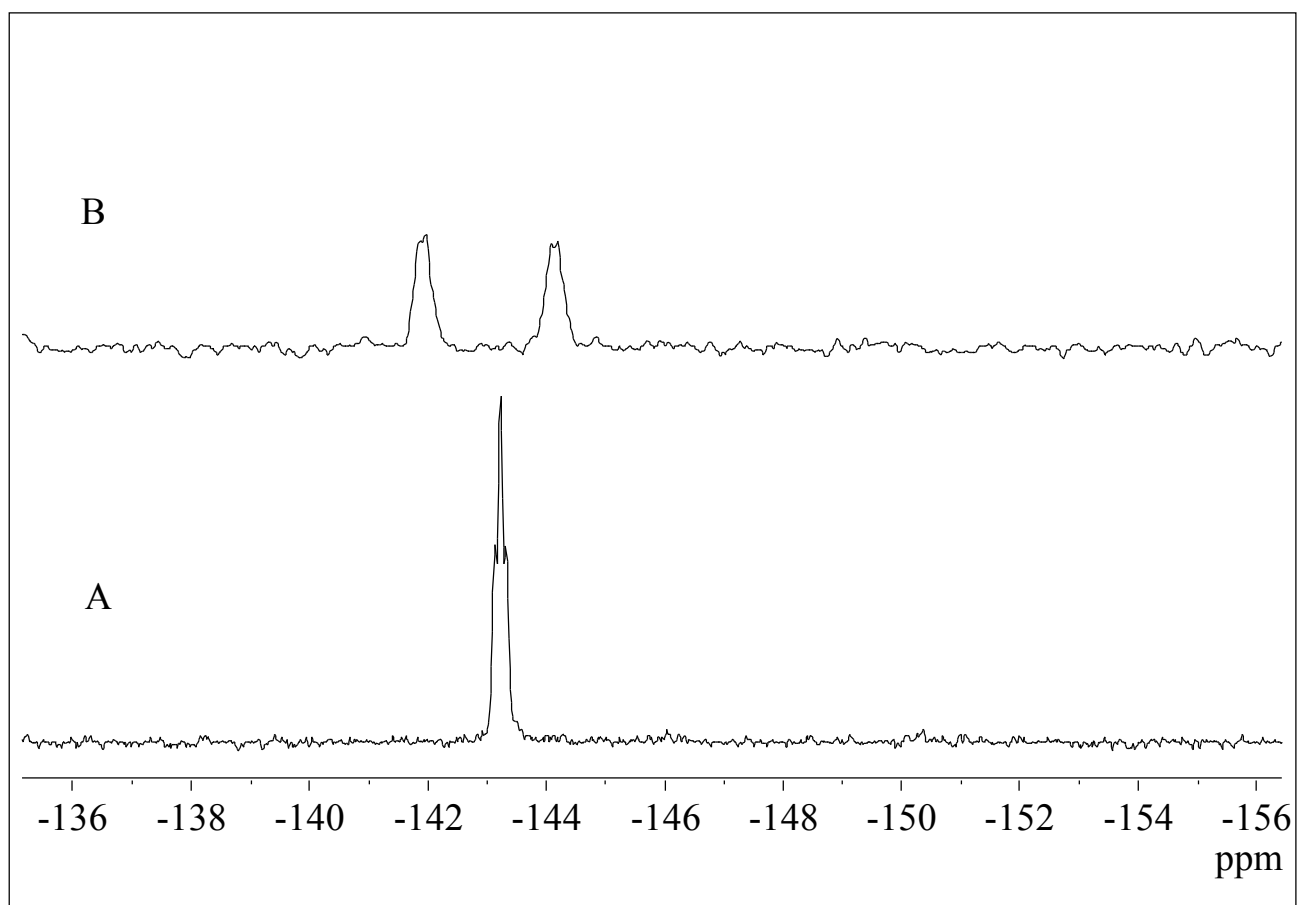


Figure S4: ^{15}N NMR spectra of complex $[\text{Re}\{\eta^1\text{-}^{15}\text{NH}=\text{C}(\text{H})\text{C}_6\text{H}_5\}(\text{CO})_3\{\text{PPh}(\text{OEt})_2\}_2]\text{BPh}_4$ **7a₁** in CD_2Cl_2 at 298 K: A, proton decoupled; B, proton coupled.