**Electronic supplementary information**

**8,8'-μ-Ammonium derivative of cobalt  
bis(dicarbollide)** **[8,8'-μ-NH2-3,3'-Co(1,2-C2B9H10)2]**

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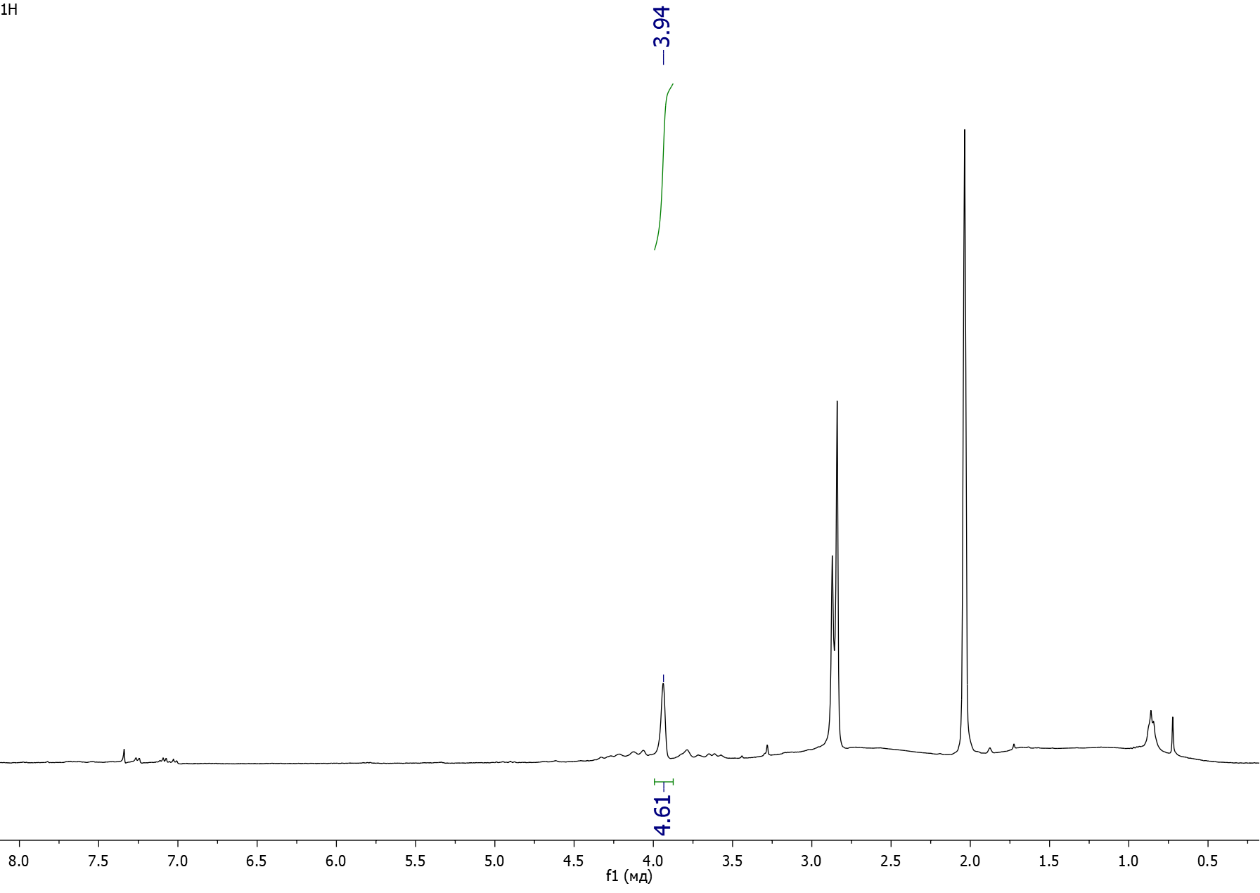
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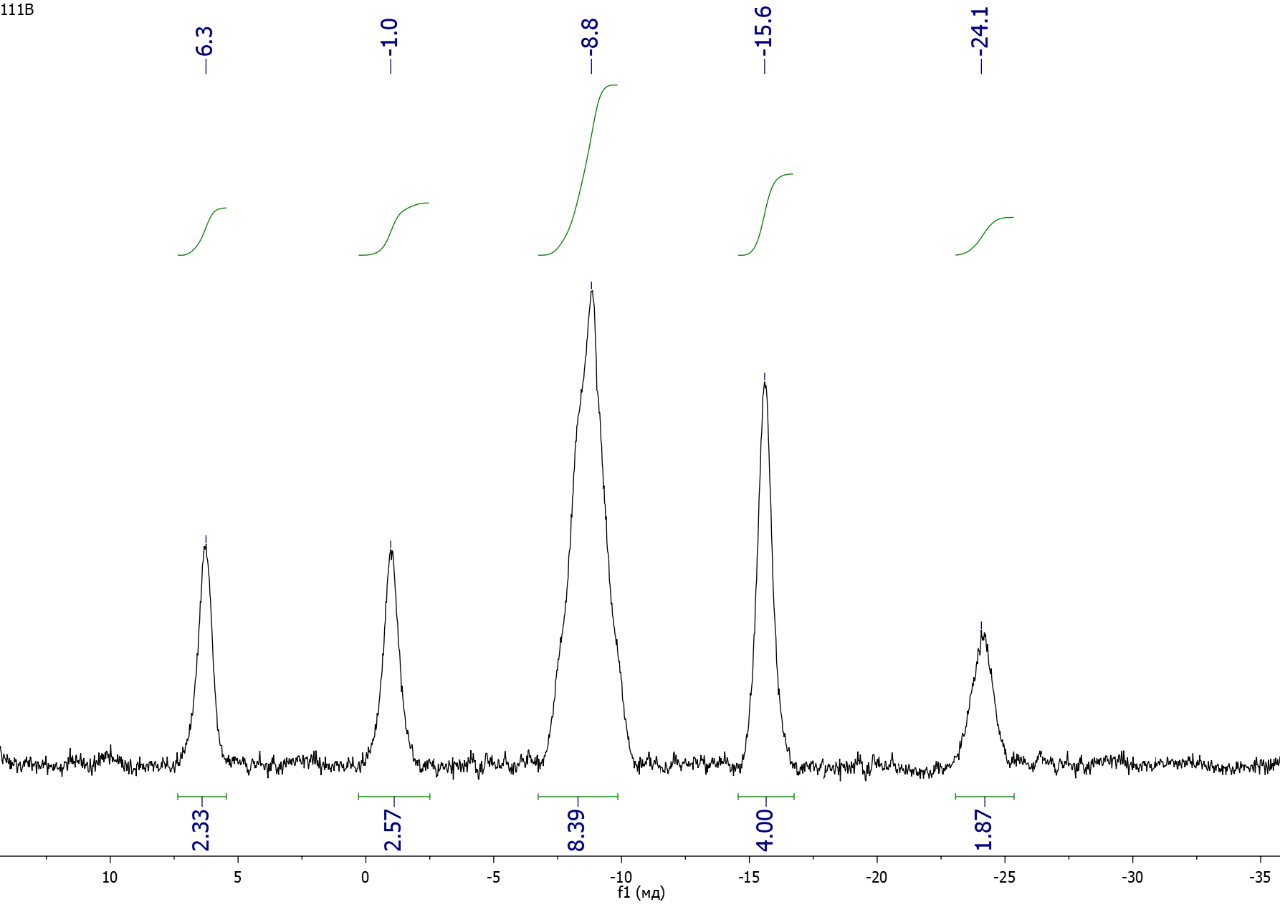
*b Lomonosov Institute of Fine Chemical Technologies, MIREA–Russian Technological*

*University, pr. Vernadskogo 86, Moscow, 119571 Russia*

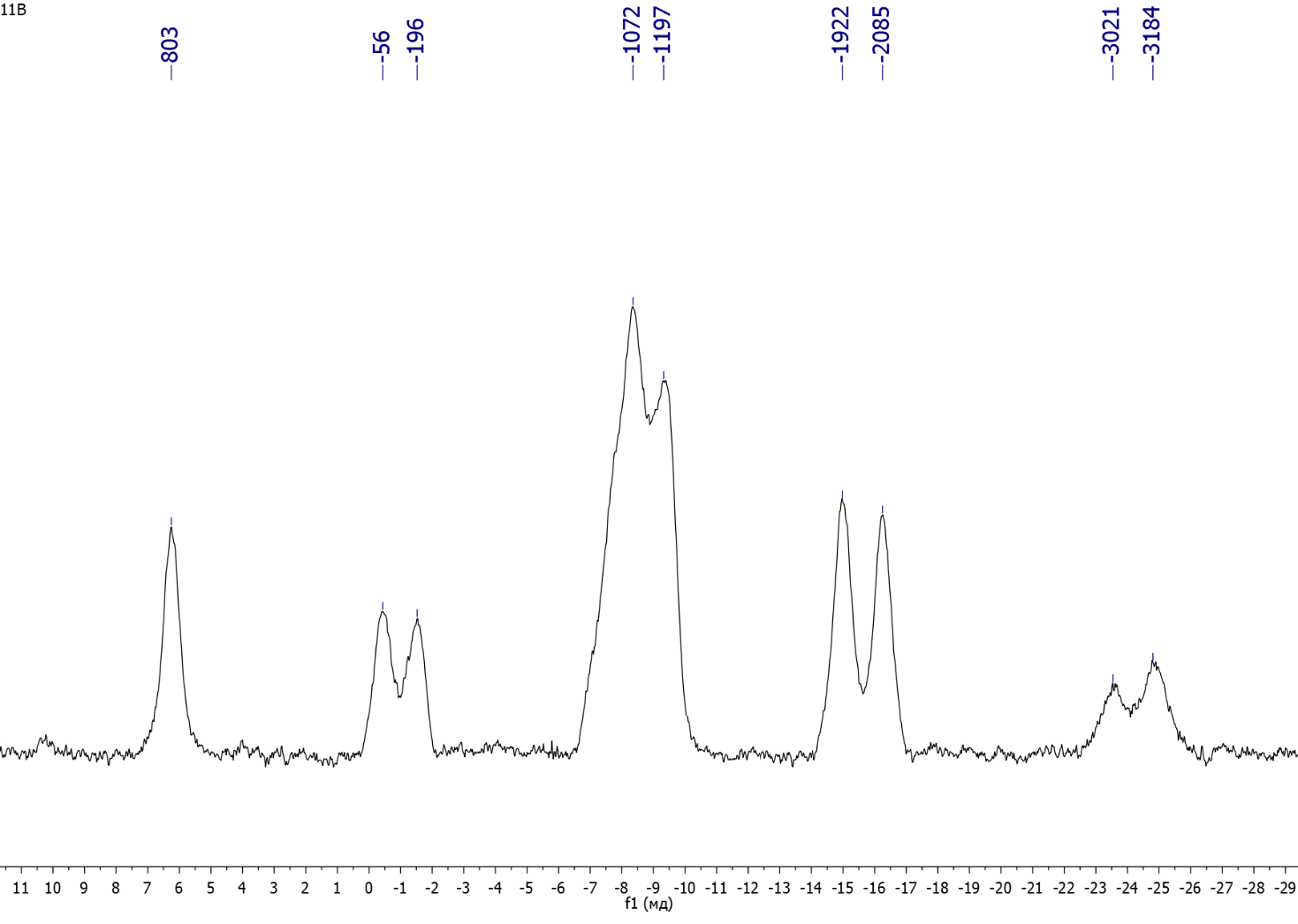
**Multinuclear NMR spectra of compound [8,8'-μ-NH2-3,3'-Co(1,2-C2B9H10)2]**



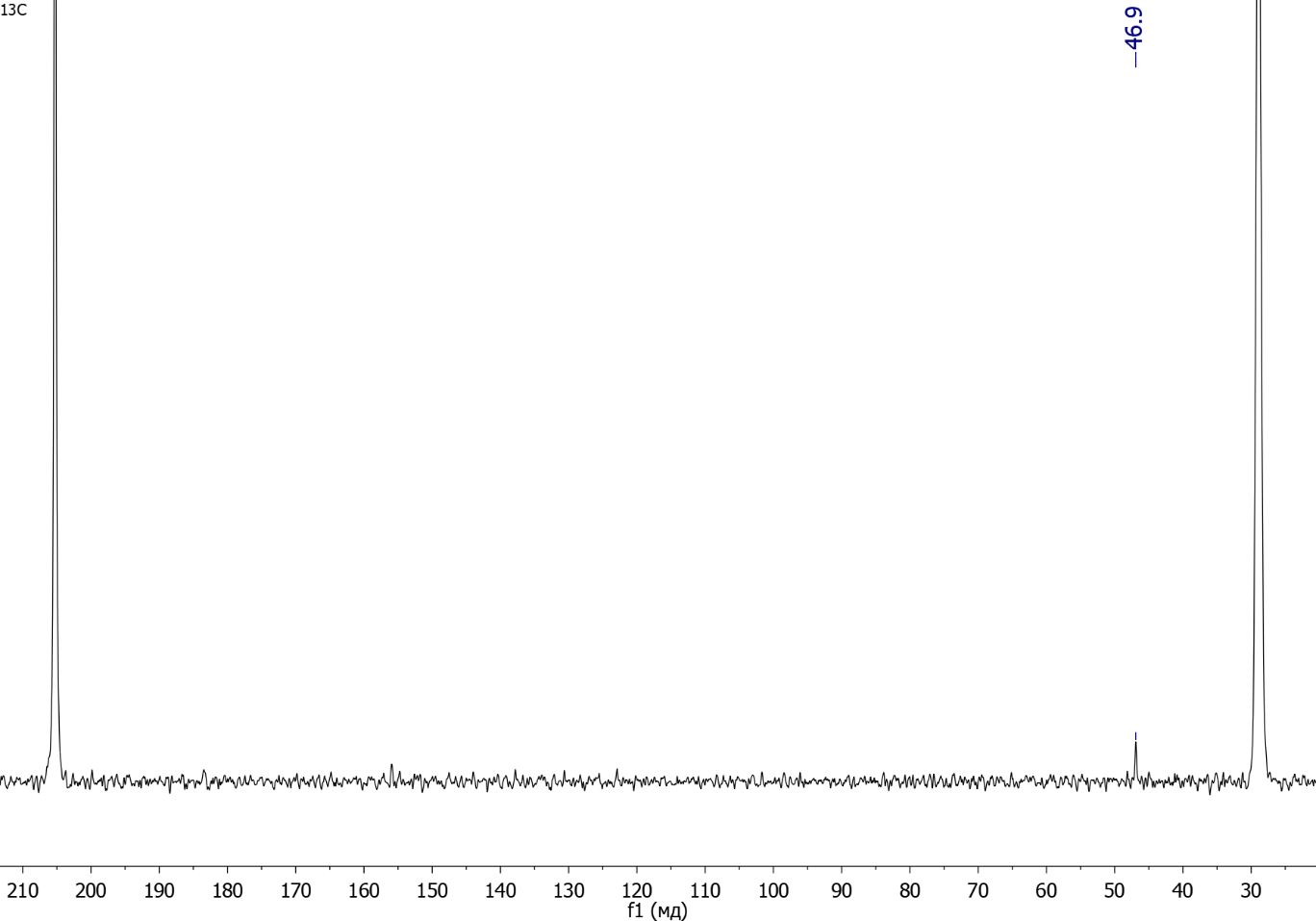
**Figure S1.** 1H NMR spectrum of compound **2** (acetone-*d*6).



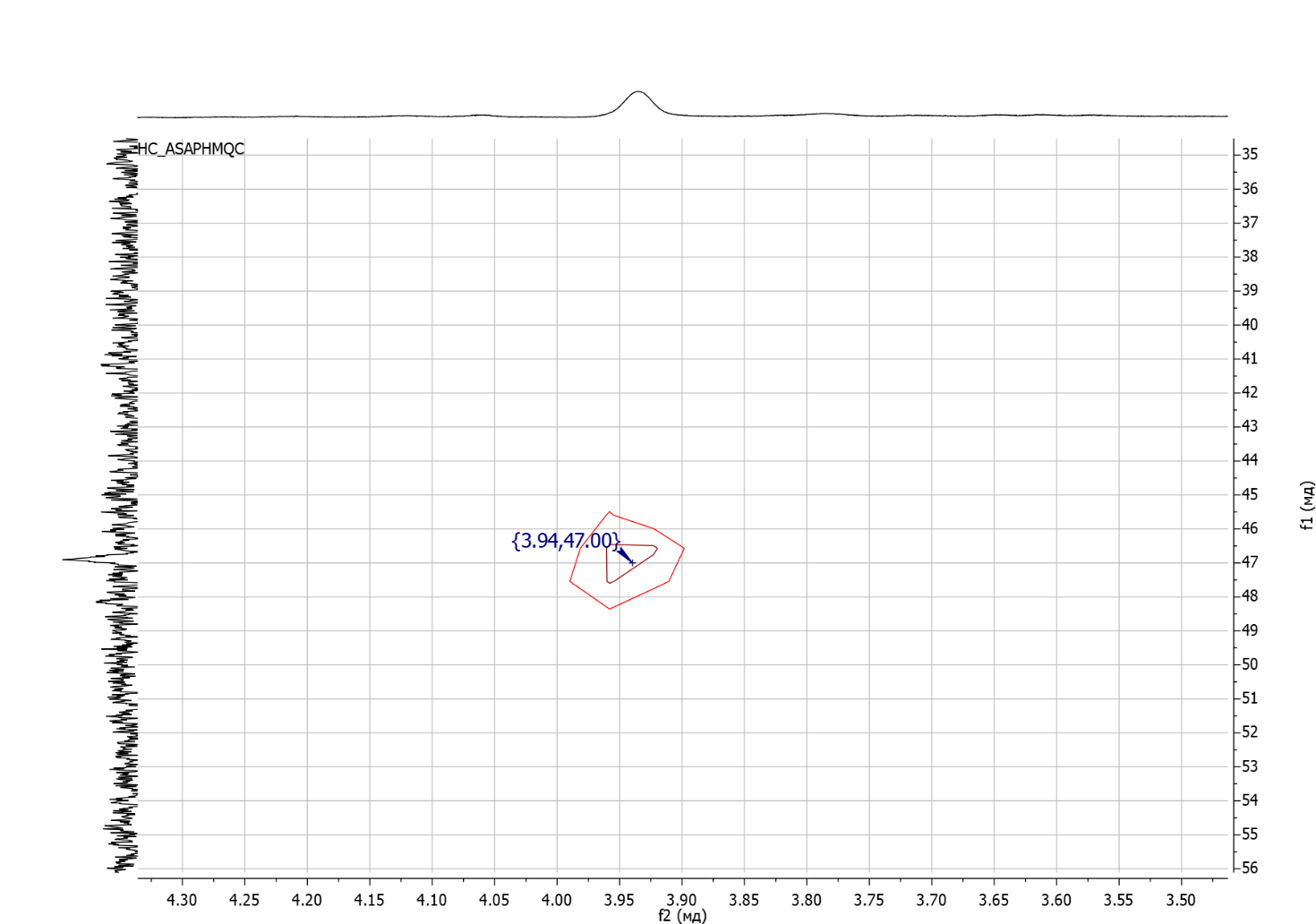
**Figure S2.** 11B{1H} NMR spectrum of compound **2** (acetone-*d*6).



**Figure S3.** 11B NMR spectrum of compound **2** (acetone-*d*6).



**Figure S4.** 13C NMR spectrum of compound **2** (acetone-*d*6).



**Figure S5.** 1H–13С NMR HMQC spectrum of compound **2** (acetone-*d*6).

**Proposed reaction mechanism**

