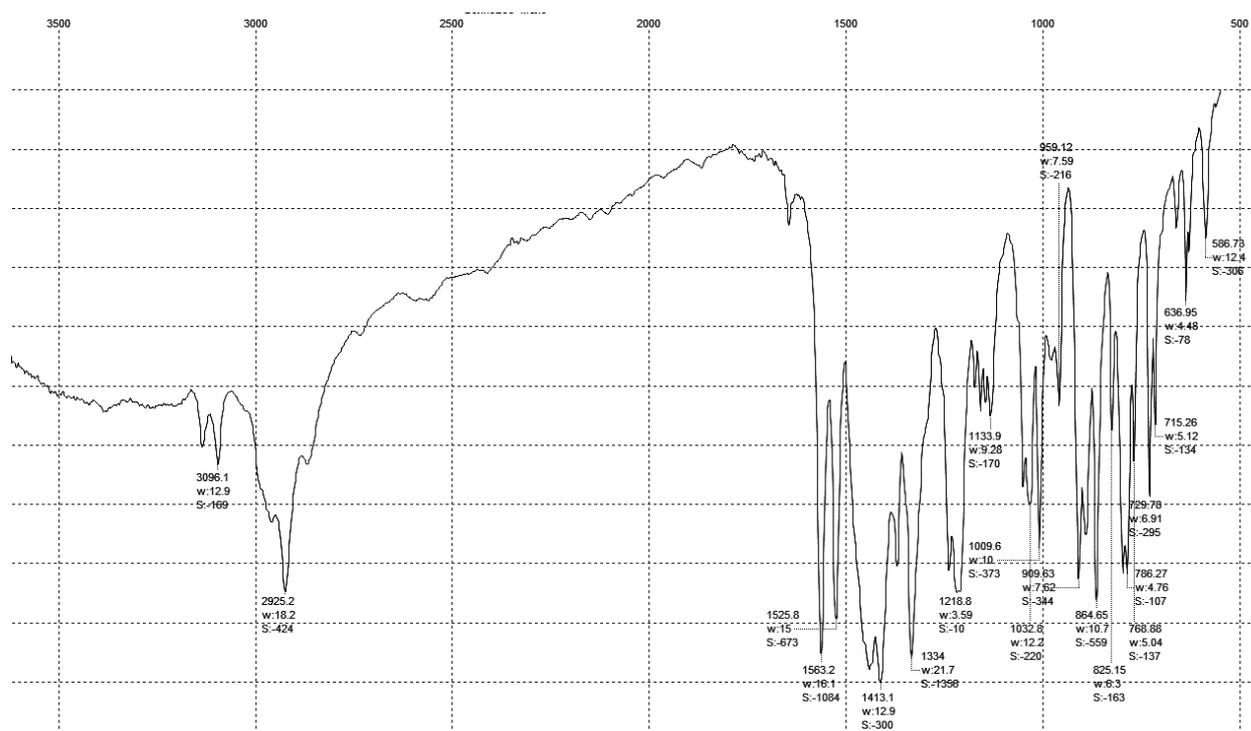


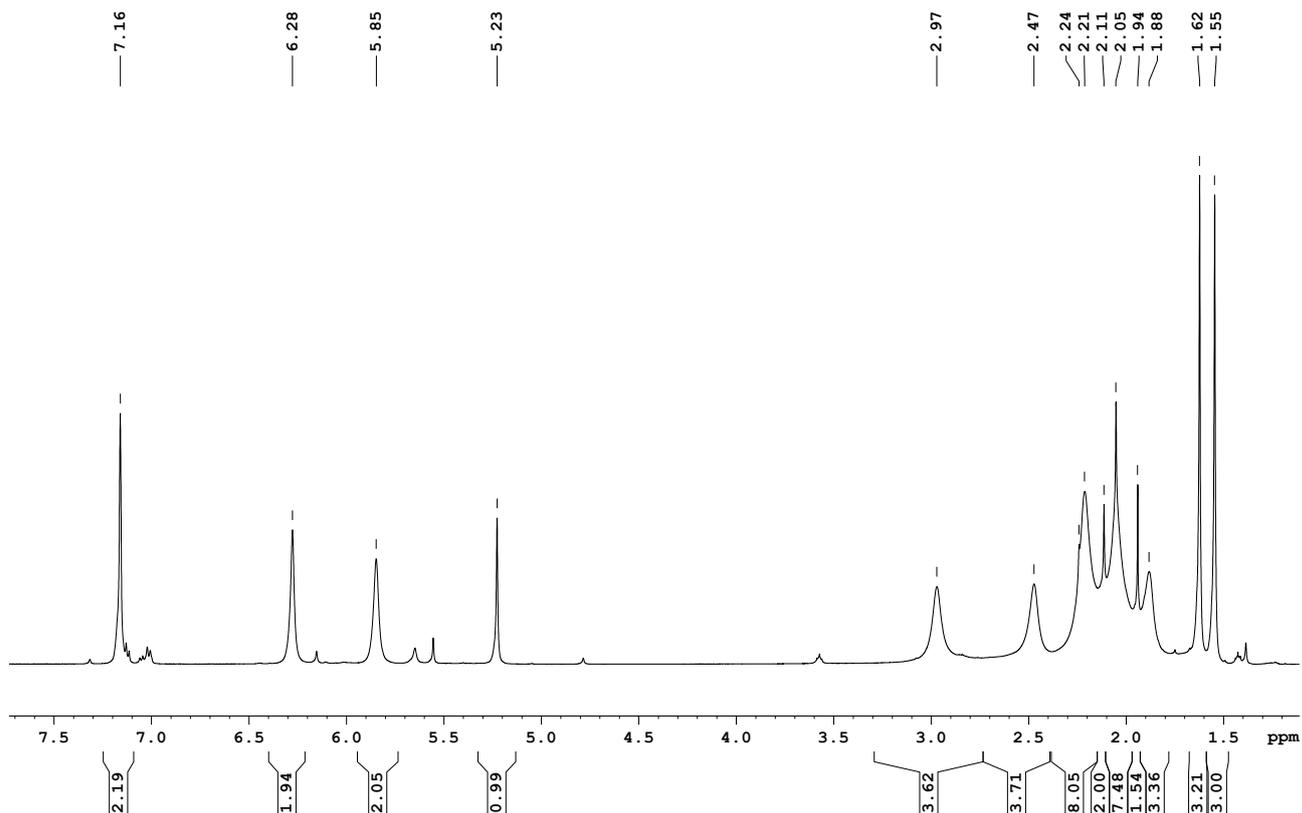
Unusual reactivity of tantalum pentakis(dimethylpyrazolate) with CS<sub>2</sub>:  
scission of the C=S bond and formation of dmpz<sub>3</sub>CS<sup>-</sup> ligand

Pavel A. Petrov, Alexander V. Rogachev, Taisiya S. Sukhikh, Ilia V. Eltsov,  
Pavel A. Abramov and Maxim N. Sokolov

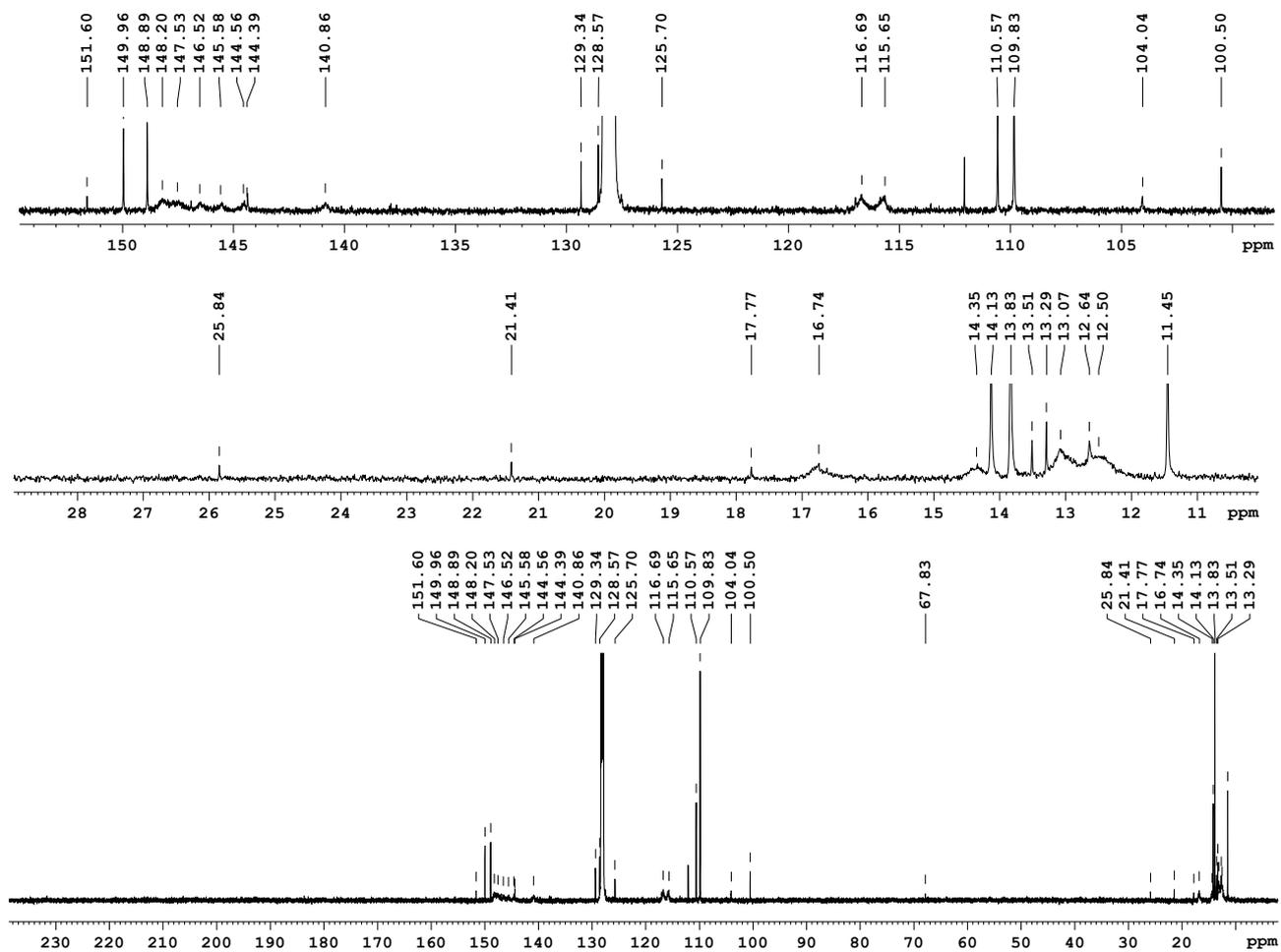
IR spectrum of complex **2** (KBr pellet).



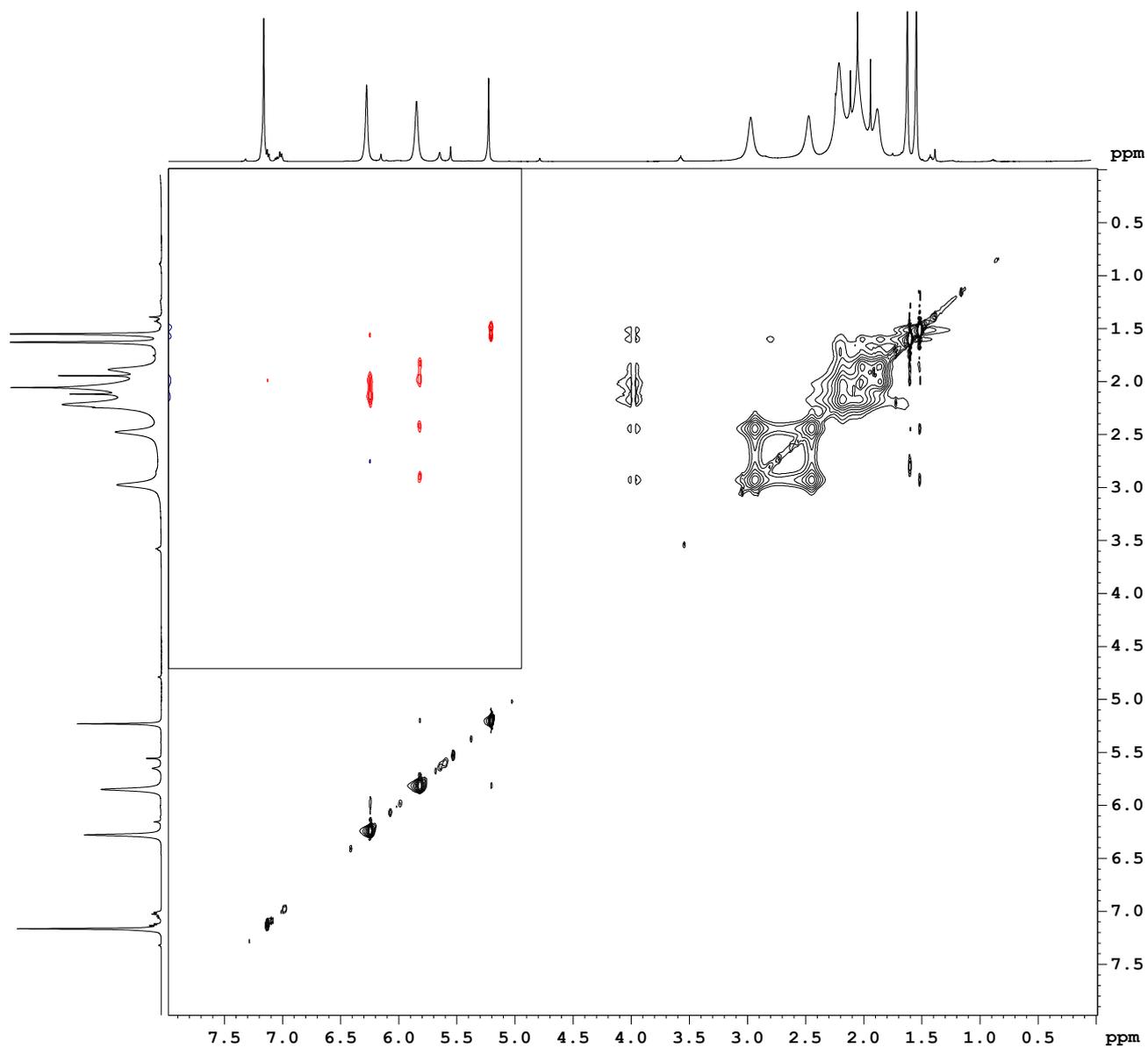
$^1\text{H}$  NMR spectrum of complex **2** in  $\text{C}_6\text{D}_6$ .



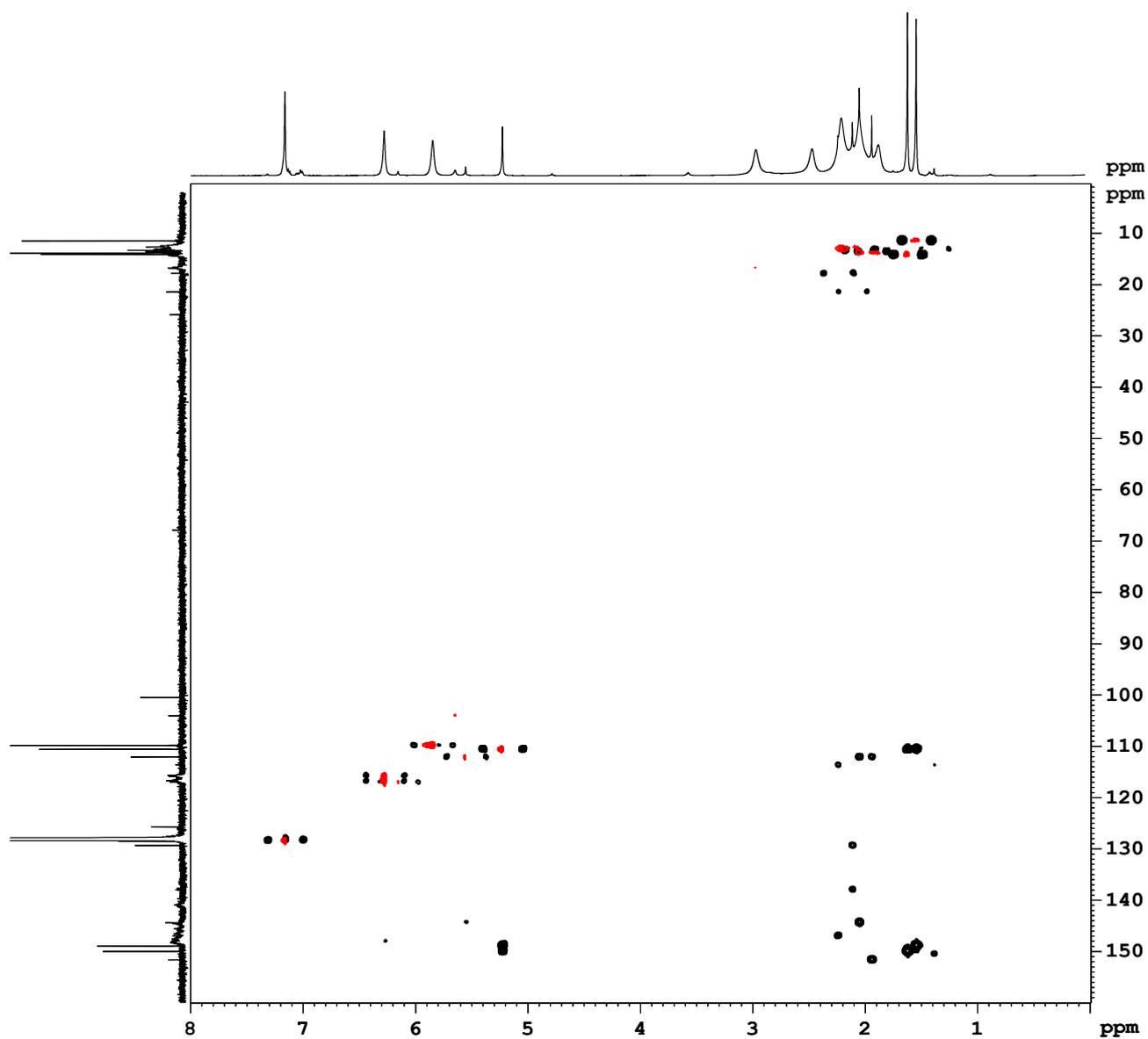
$^{13}\text{C}\{^1\text{H}\}$  NMR spectrum of complex **2** in  $\text{C}_6\text{D}_6$ .



$^1\text{H}$ ,  $^1\text{H}$ -NOESY spectrum of complex **2** in  $\text{C}_6\text{D}_6$ .



$^1\text{H}$ ,  $^{13}\text{C}$ -HMBC (black) and HSQC (red) spectra of complex **2** in  $\text{C}_6\text{D}_6$ .



$^1\text{H}$ ,  $^{15}\text{N}$ -HMBC spectrum of complex **2** in  $\text{C}_6\text{D}_6$ .

