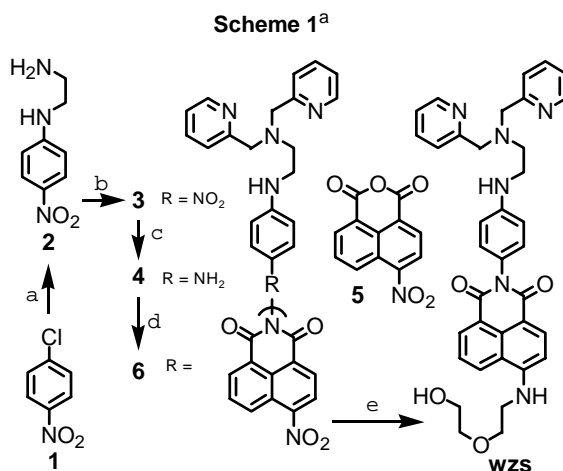


# Supporting information

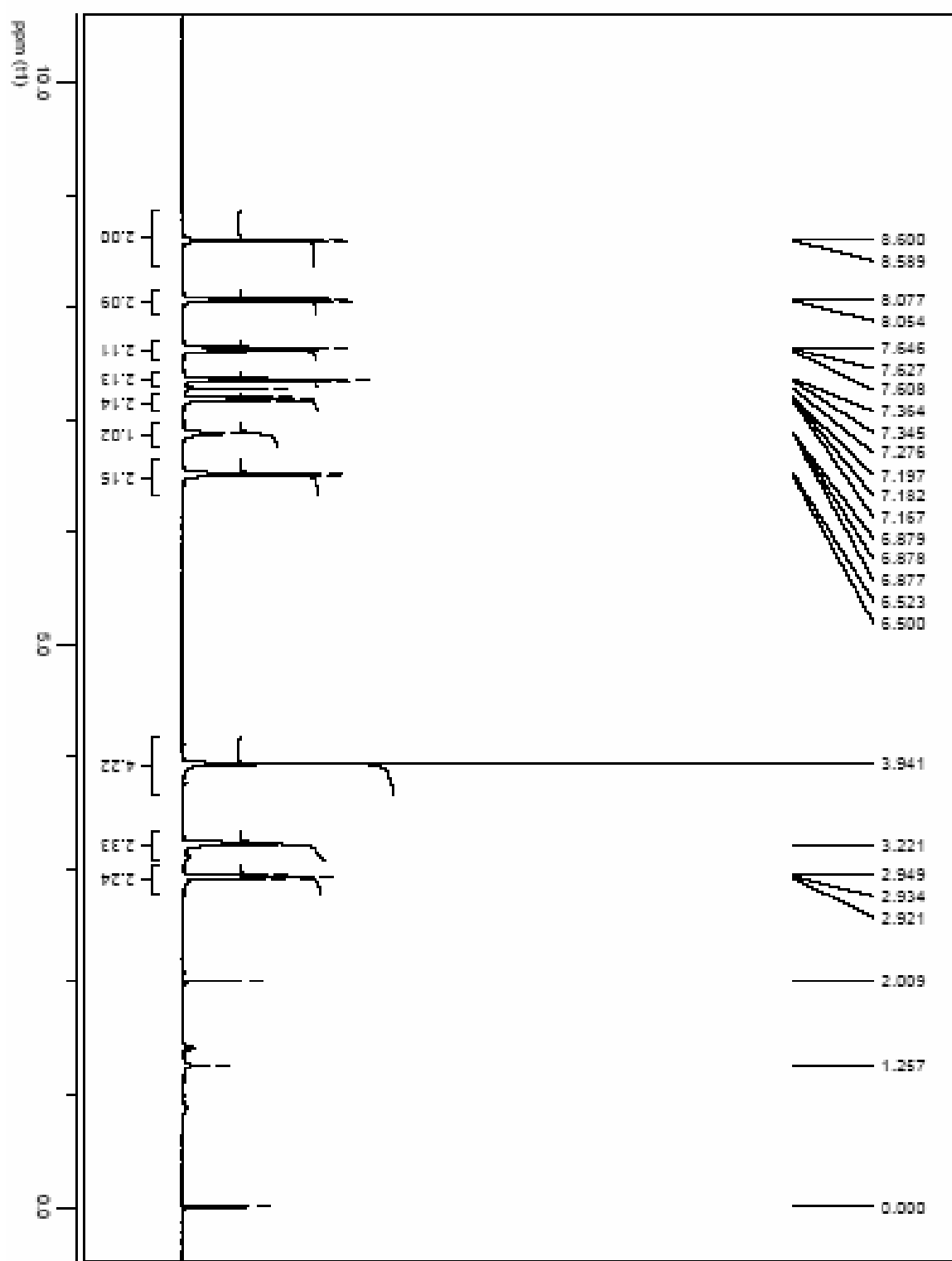
## A pH-Resistant Zn(II) Sensor Derived from 4-Aminonaphthalimide: Design, Synthesis and Intracellular Applications

Jiaobing Wang,<sup>a</sup> Yi Xiao,<sup>a</sup> Zhichao Zhang,<sup>a</sup> Xuhong Qian,<sup>\*a,b</sup> Yuanyuan Yang, and Qin Xu

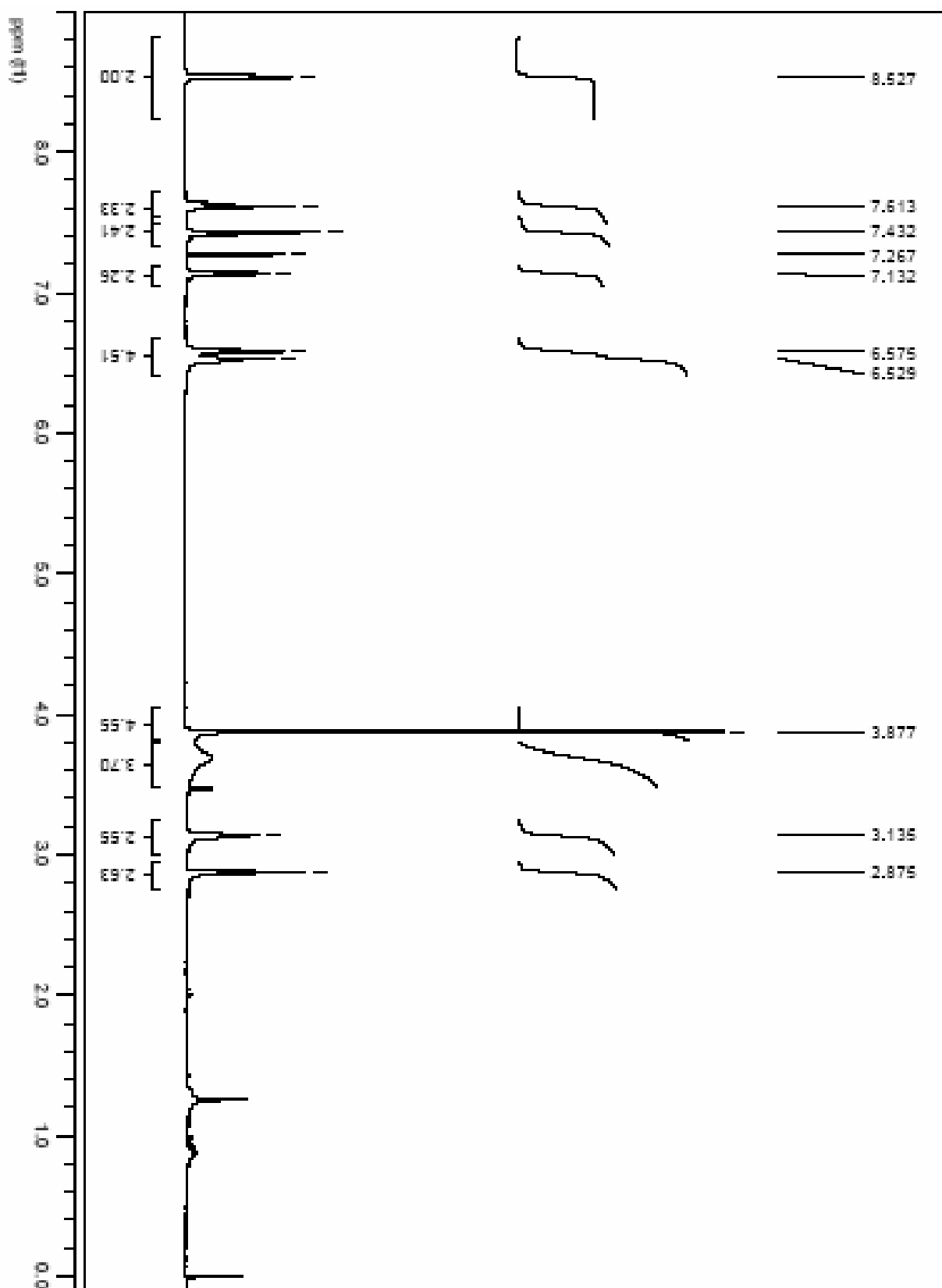
<sup>1</sup>H NMR spectra (in CDCl<sub>3</sub>, TMS as internal standard) of the compound **3**, **4**, **6**, and **WZS** in Scheme 1:



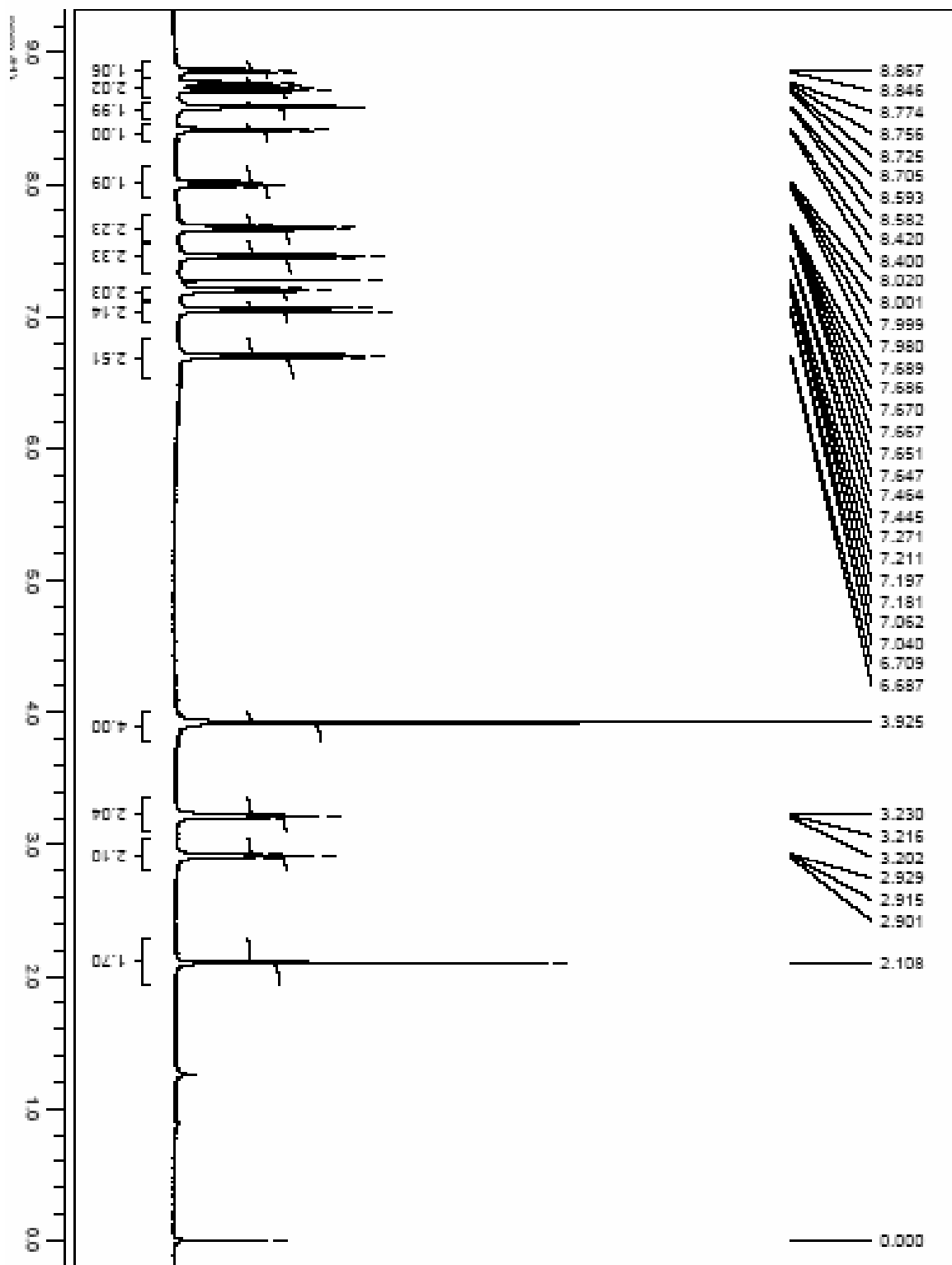
<sup>a</sup> Key: (a) ethane-1,2-diamine, acetonitrile; (b) 2-(chloromethyl)pyridine hydrochloride, N,N-diisopropylethylamine, acet-nitrile; (c) SnCl<sub>2</sub>, acetonitrile/ethanol; (d) 4-nitro-1,8-naphthalic anhydride **5**, acetic acid/ethanol, N<sub>2</sub>; (e) 2-(2-aminoethoxy)-ethanol, DMF.



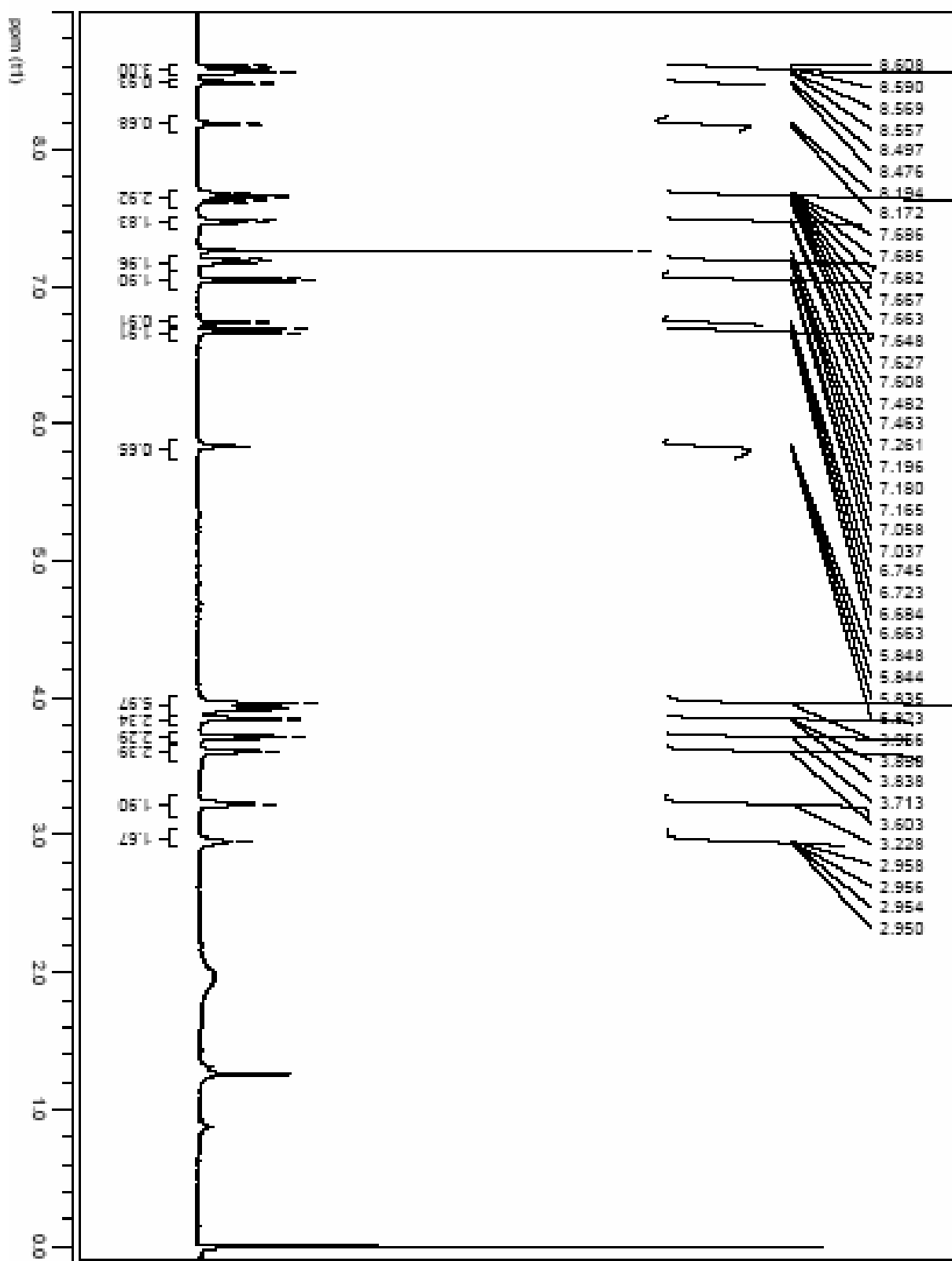
$^1\text{H}$  NMR spectra of the compound 3



$^1\text{H}$  NMR spectra of the compound 4



$^1\text{H}$  NMR spectra of the compound 6



$^1\text{H}$  NMR spectra of the compound WZS