

*Supplementary Information*

DMAP-catalysed synthesis, antibacterial activity evaluation, cytotoxicity and docking studies of some heterocyclic molecules bearing sulfonamide moiety

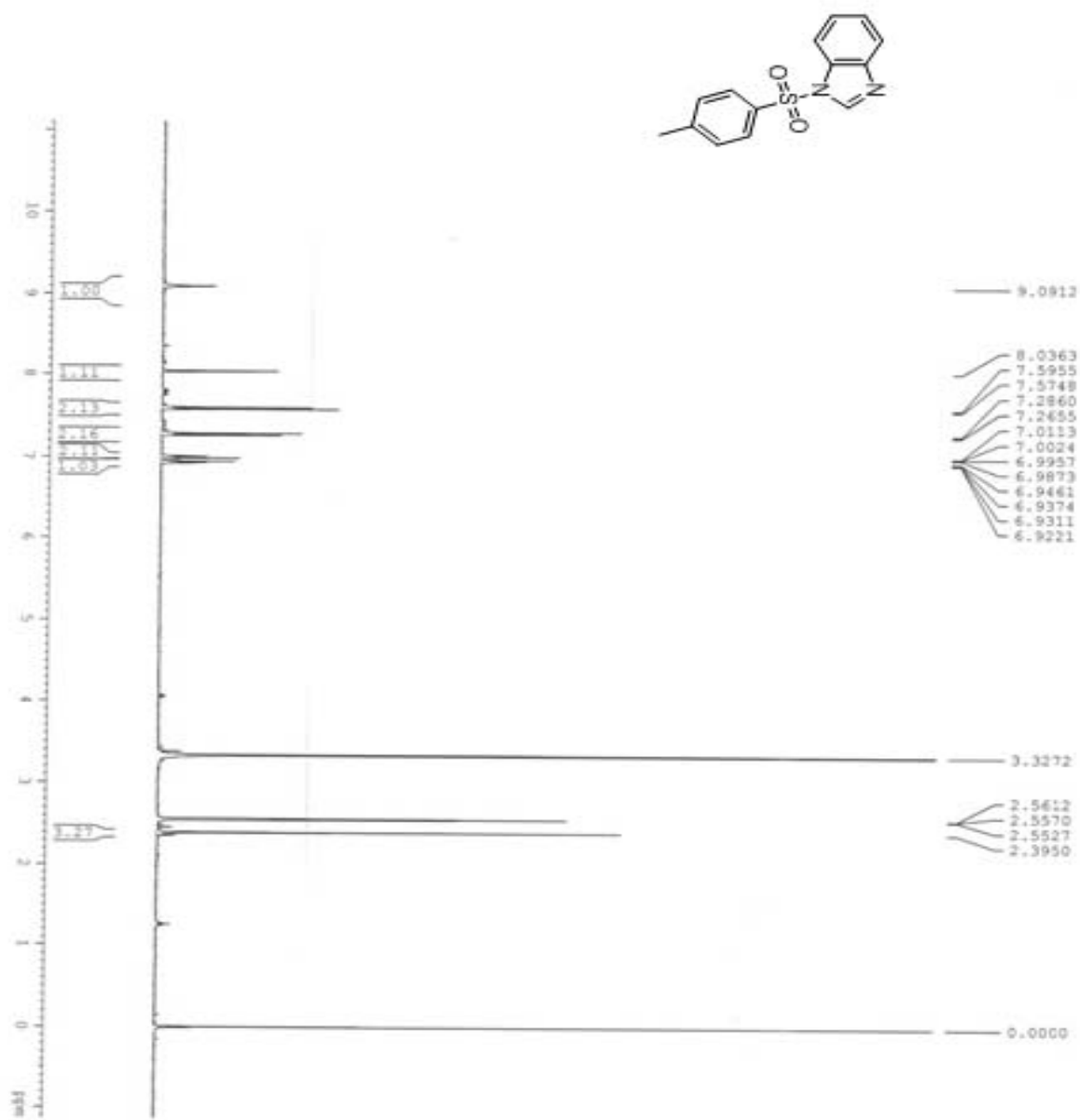
Farha Naaz, Ritika Srivastava, Madhu Yadav, Vishal K Singh, Richa Mishra, Himani Chaurasia & Ramendra K Singh\*

Bioorganic Research Laboratory, Department of Chemistry, University of Allahabad, Prayagraj 211 002, India

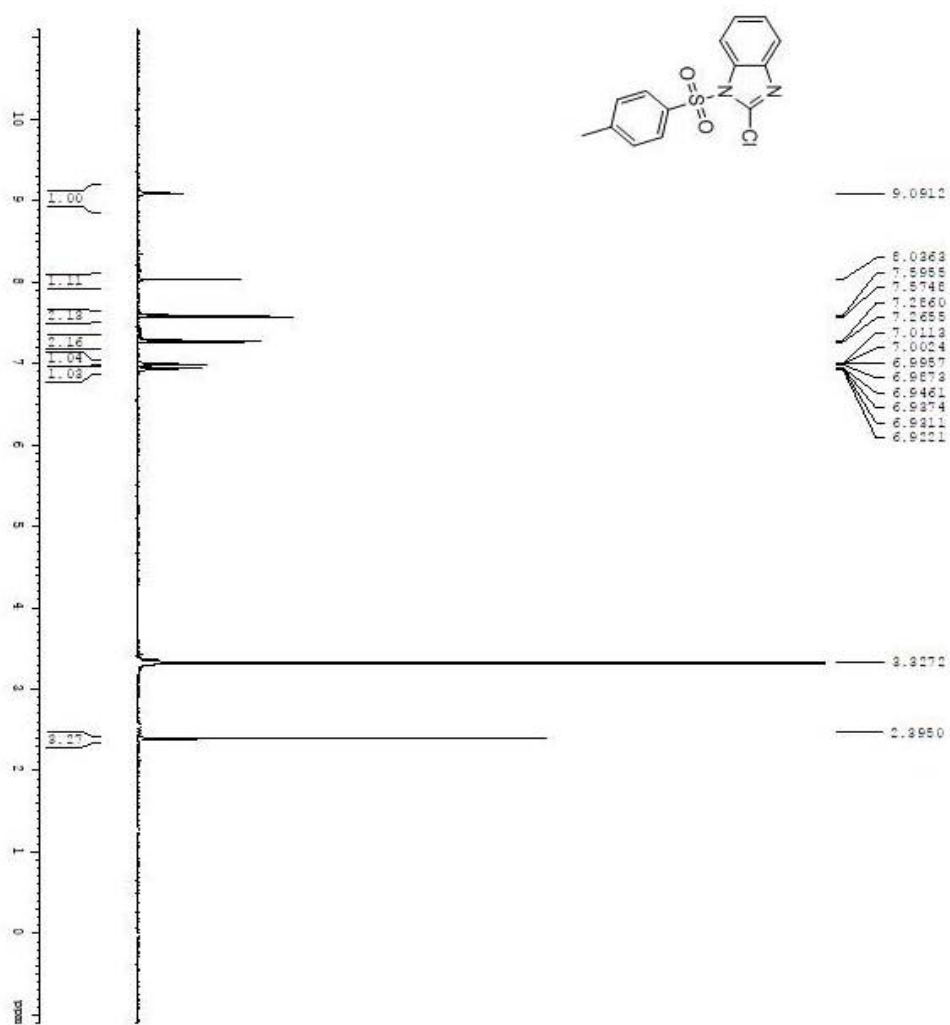
E-mail: rksinghsrk@gmail.com

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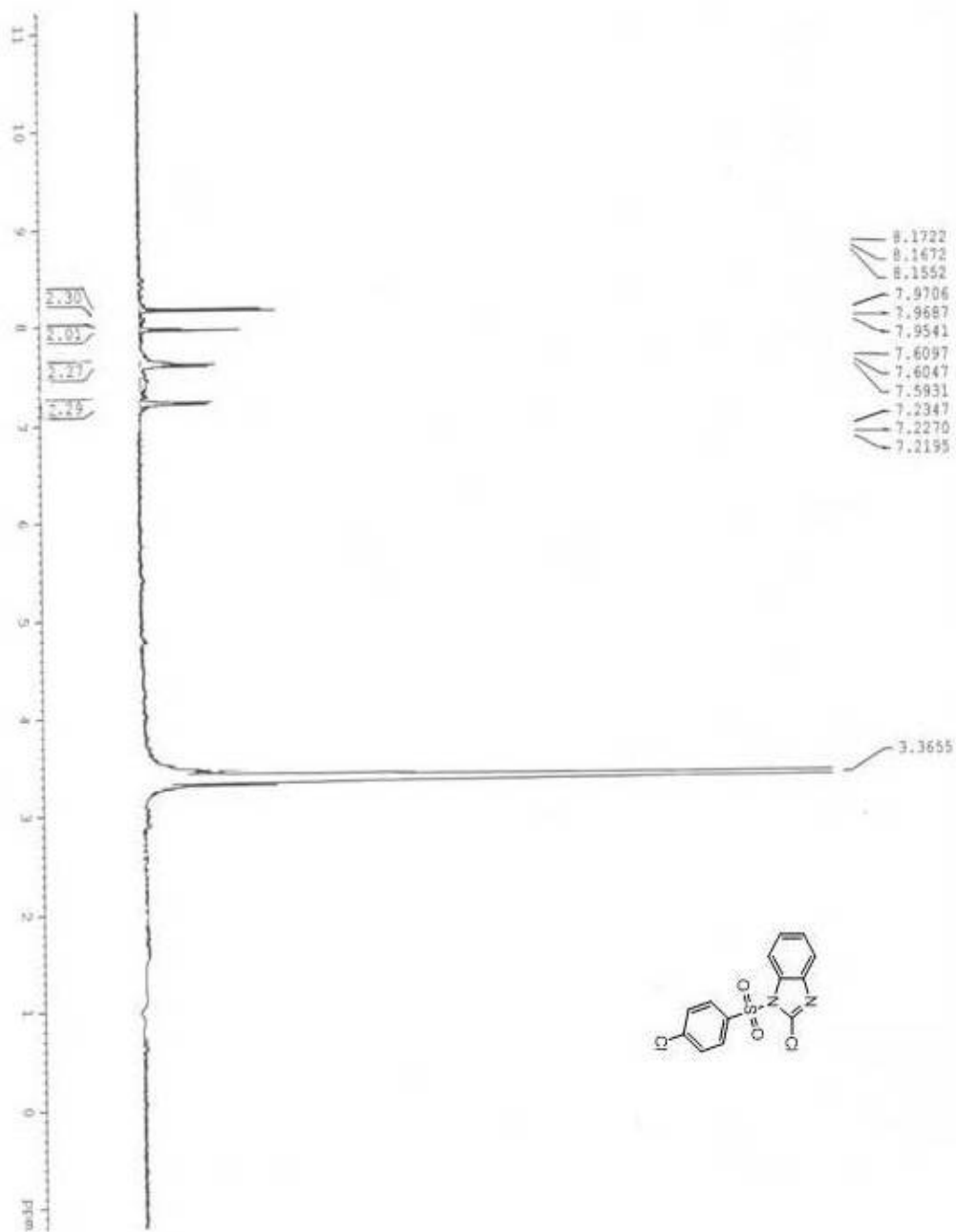
<sup>1</sup>H NMR spectrum of Compound **1a**



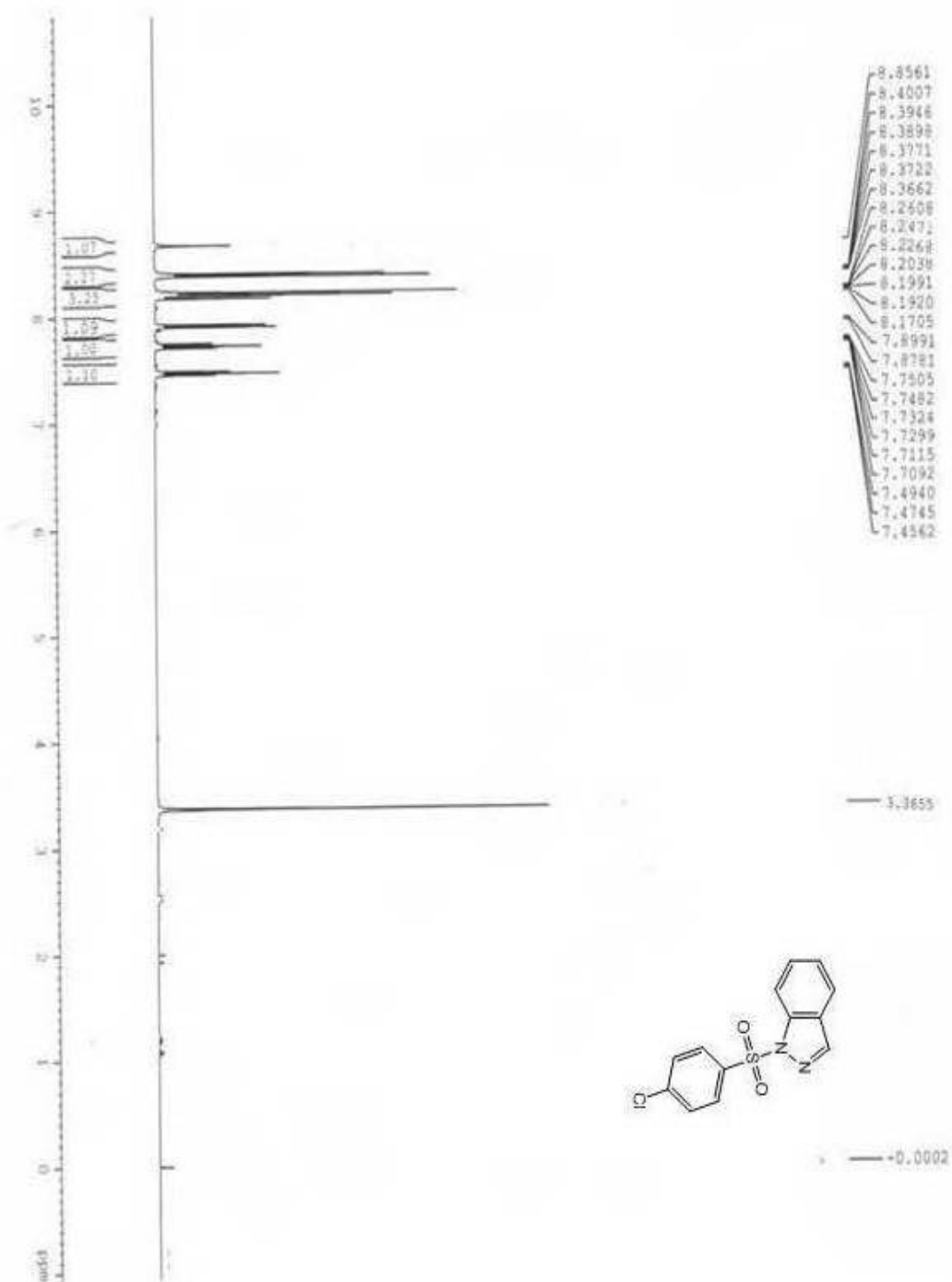
<sup>1</sup>H NMR spectrum of Compound **2a**



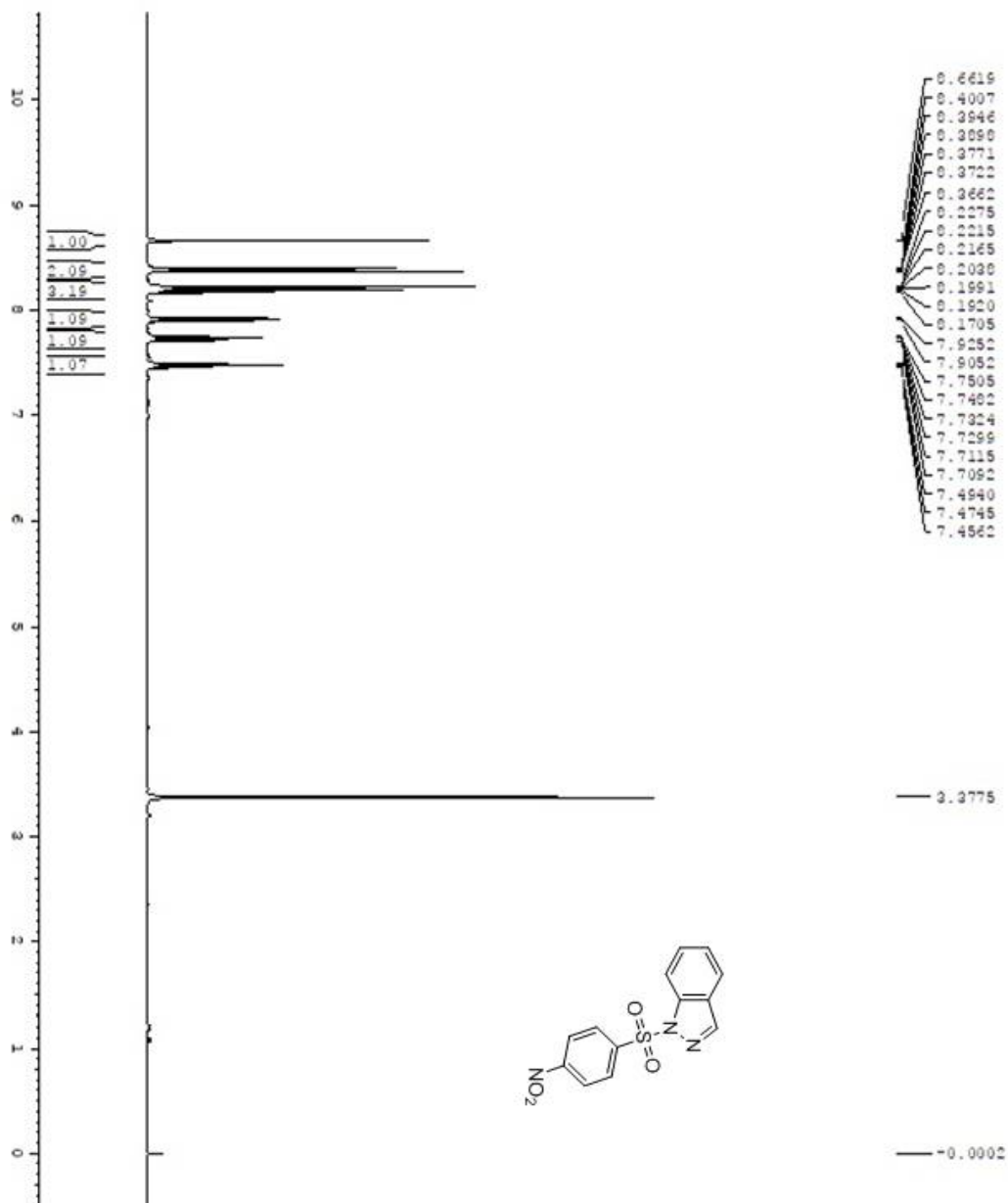
<sup>1</sup>H NMR spectrum of Compound **2b**



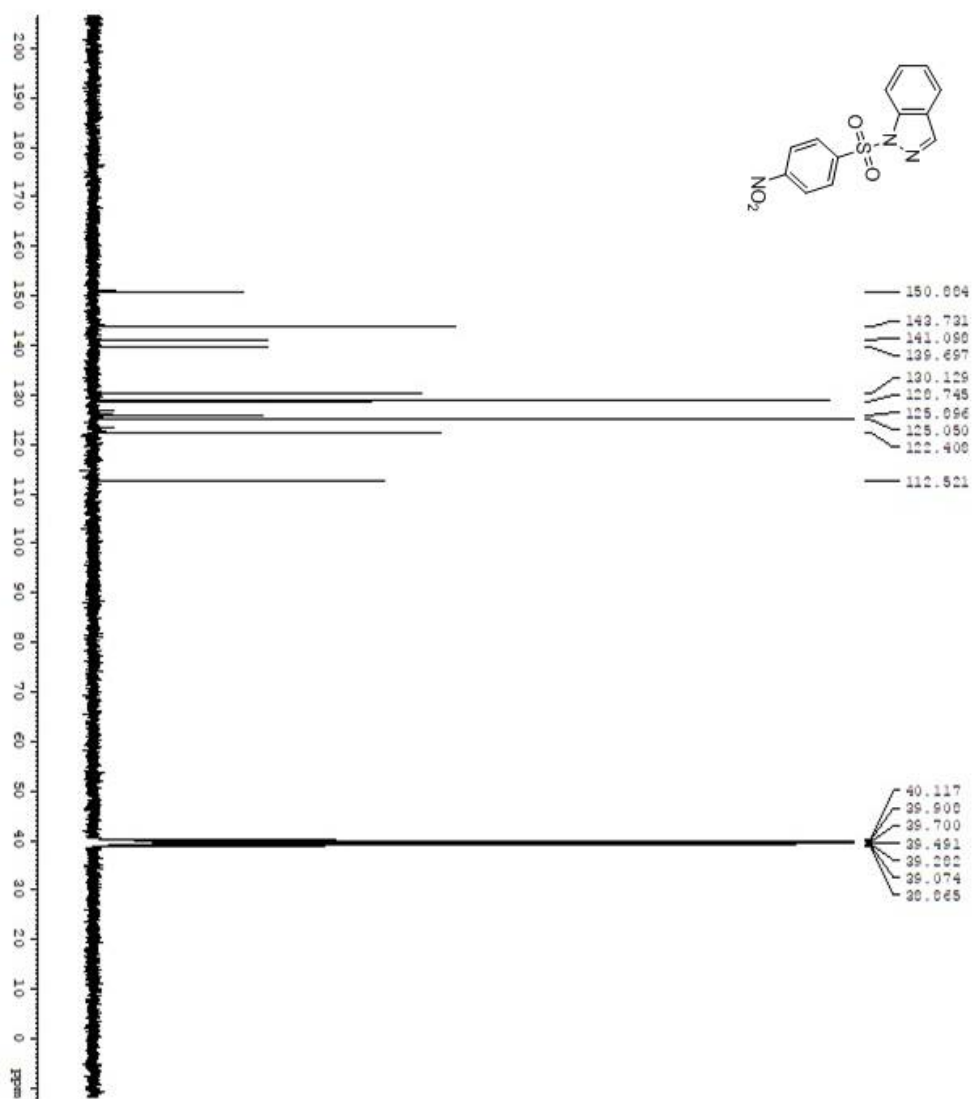
<sup>1</sup>H NMR spectrum of Compound **3b**



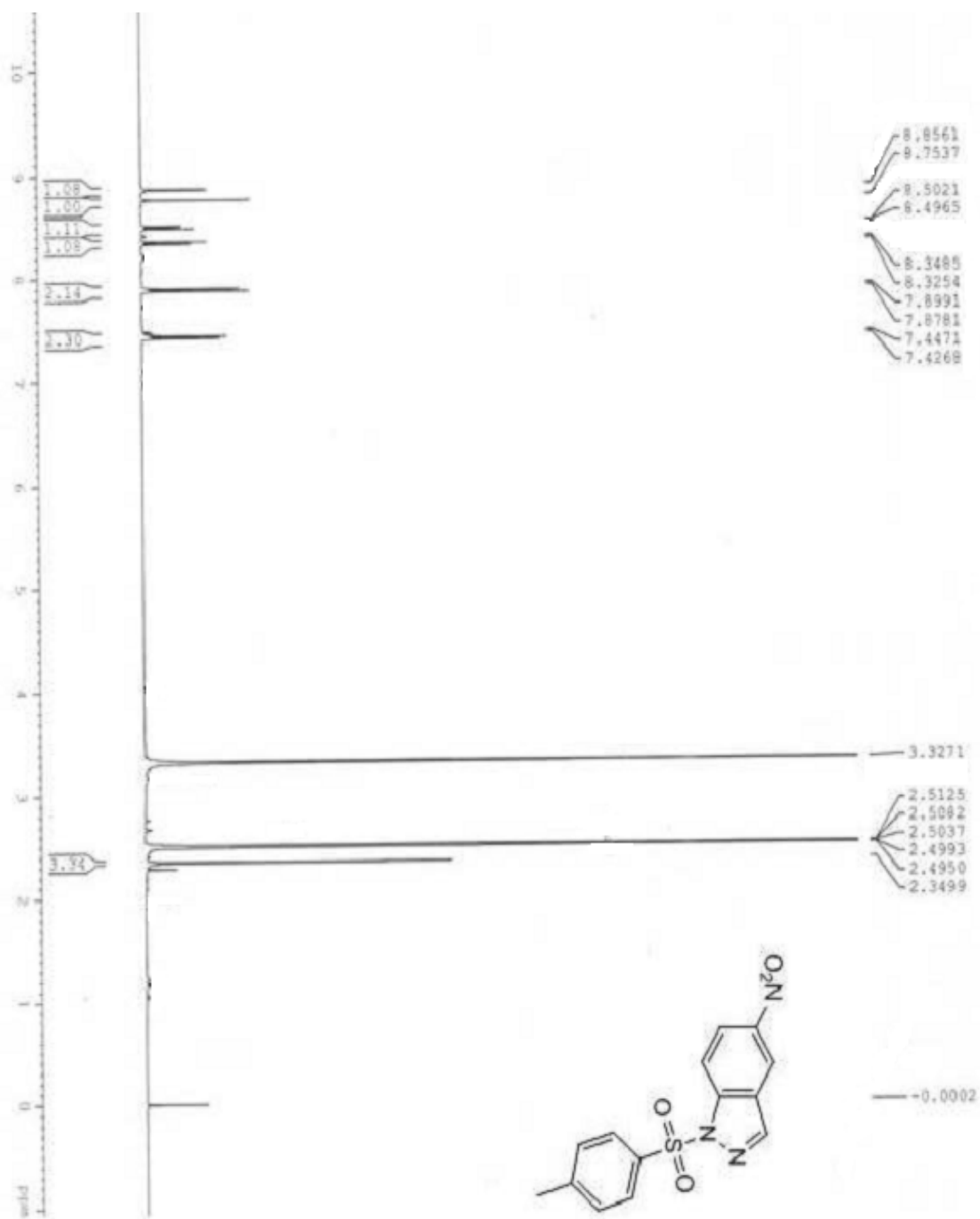
<sup>1</sup>H NMR spectrum of Compound 3c



<sup>13</sup>C NMR spectrum of Compound 3c

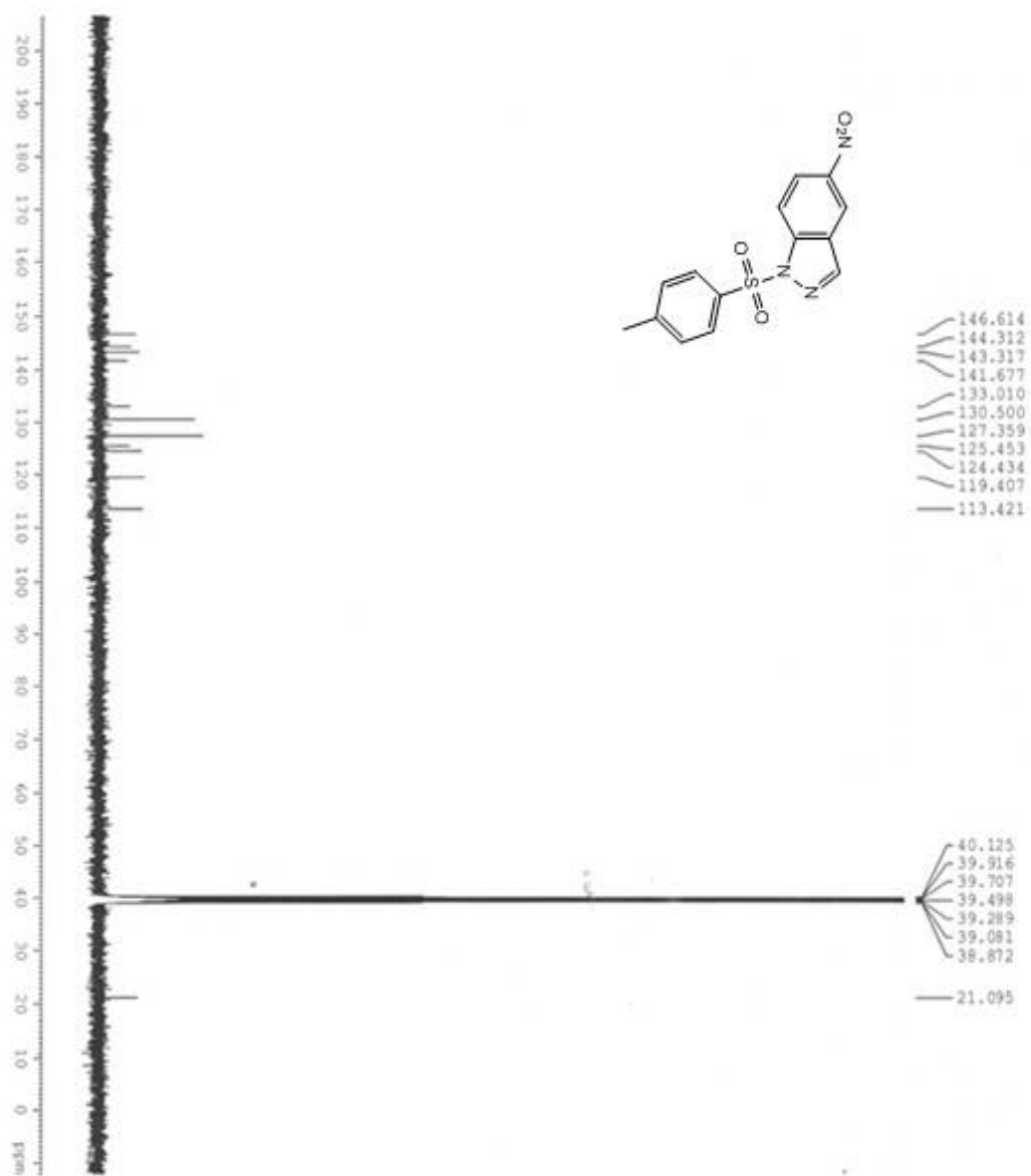


$^1\text{H}$  NMR spectrum of Compound **4a**

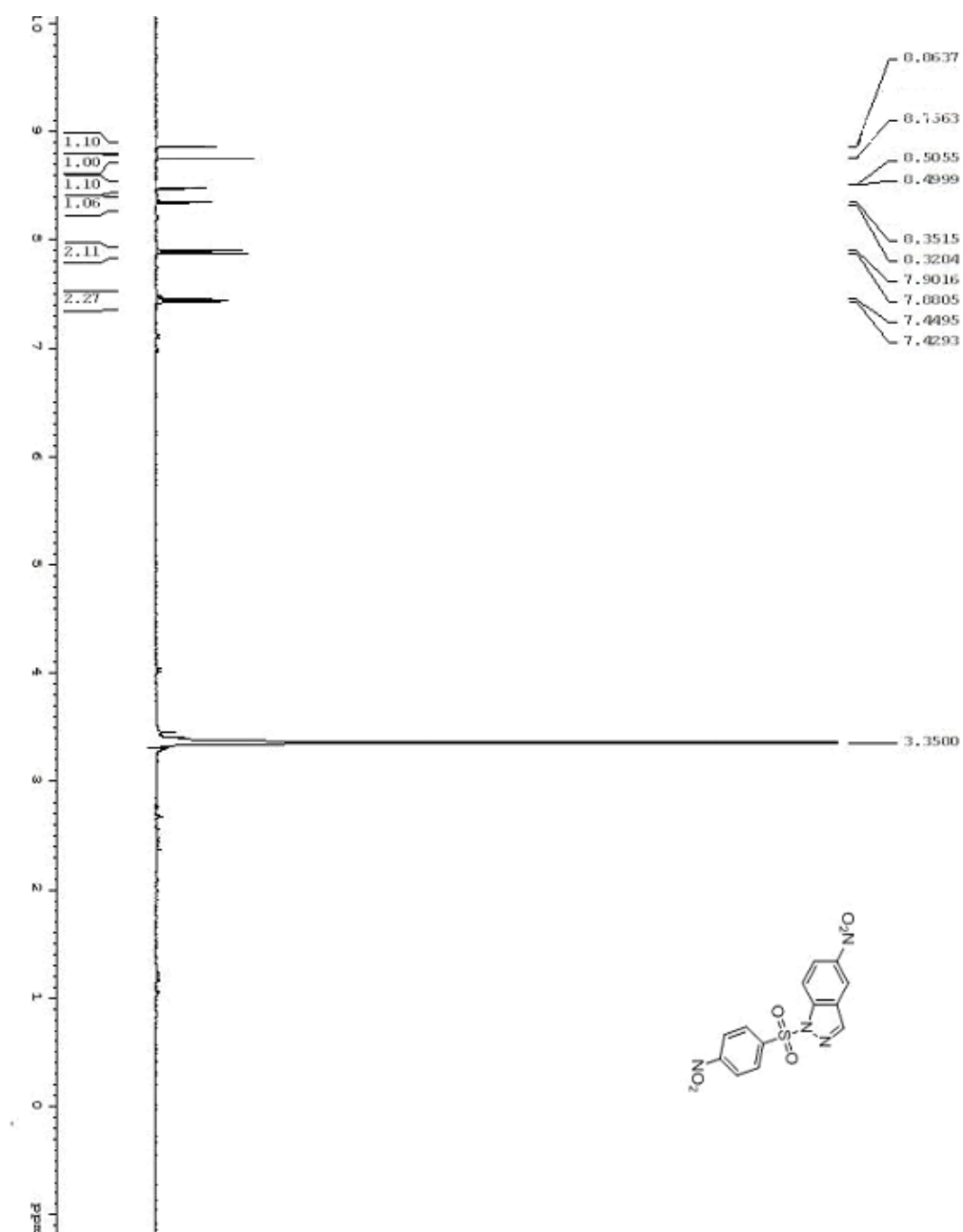




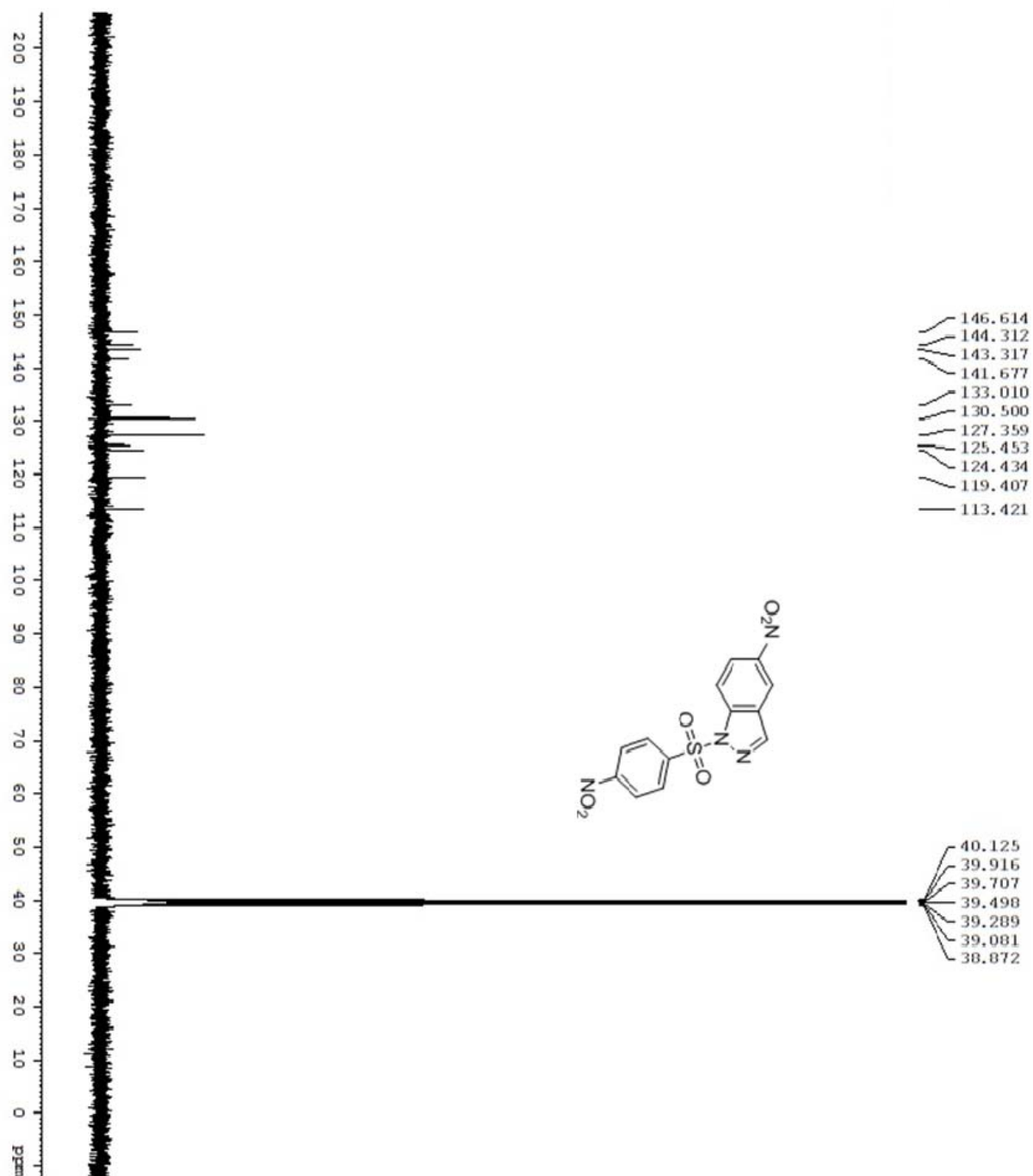
<sup>13</sup>C NMR spectrum of Compound **4a**



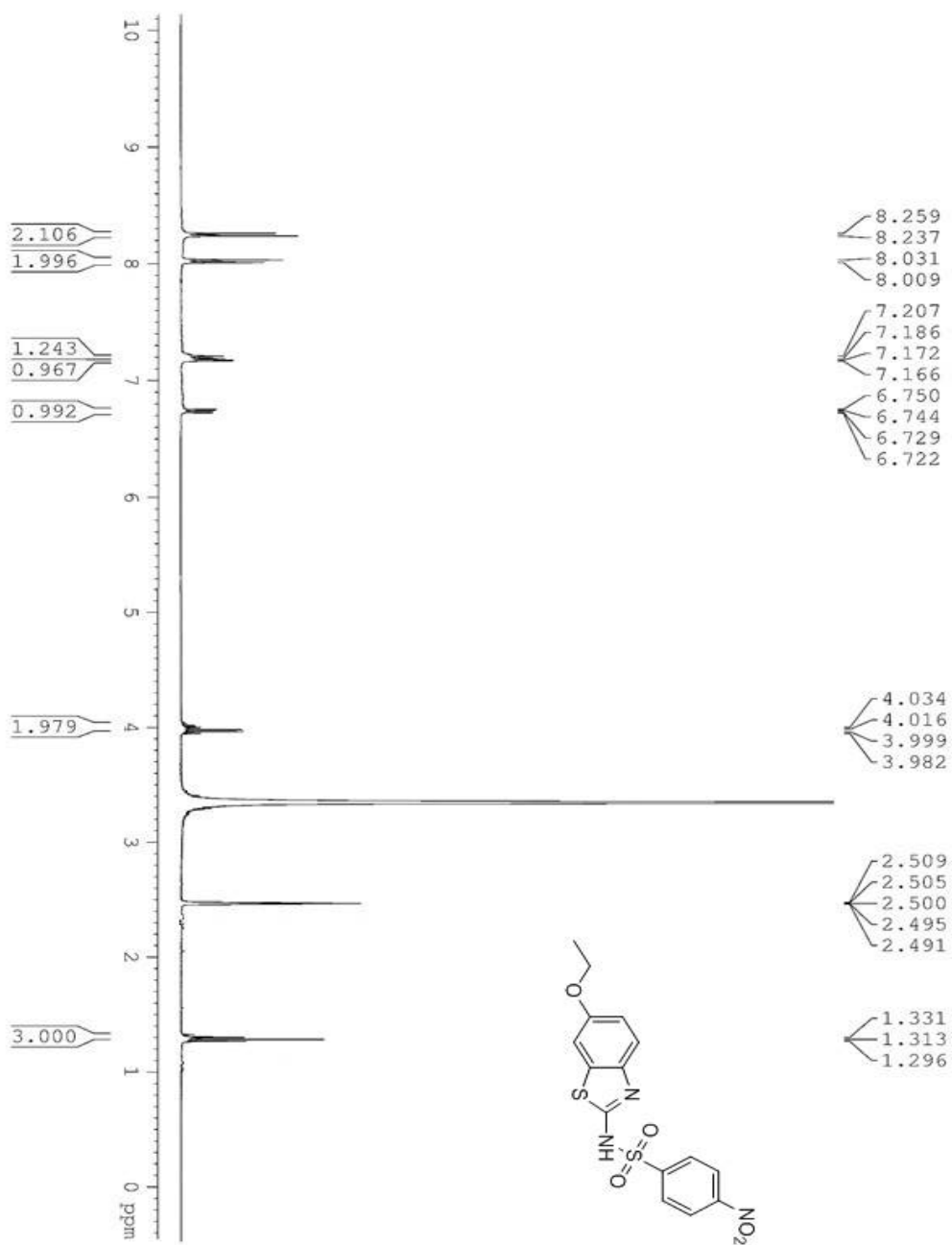
<sup>1</sup>H NMR spectrum of Compound **4c**



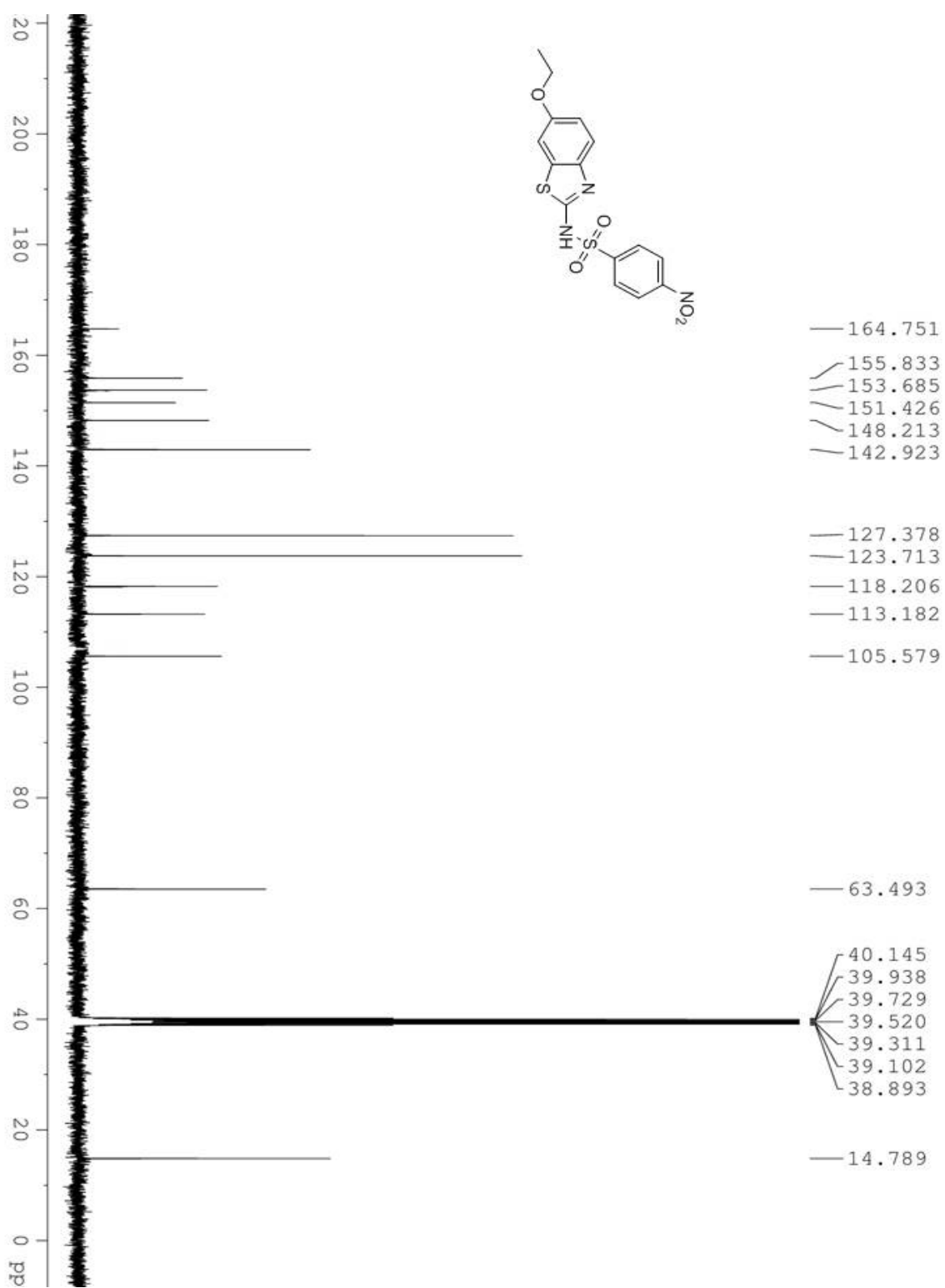
<sup>13</sup>C NMR spectrum of Compound 4c



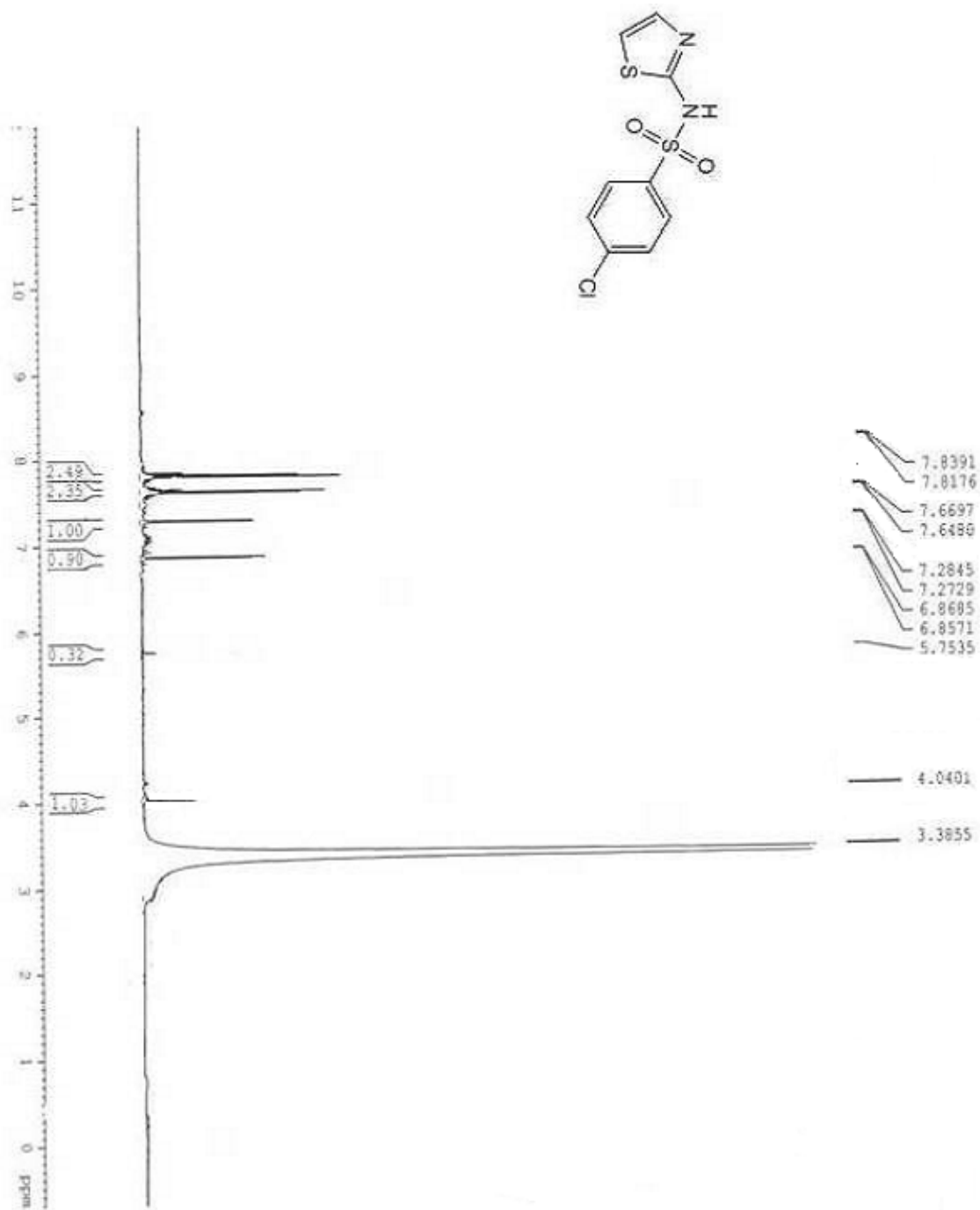
<sup>1</sup>H NMR spectrum of Compound 5c



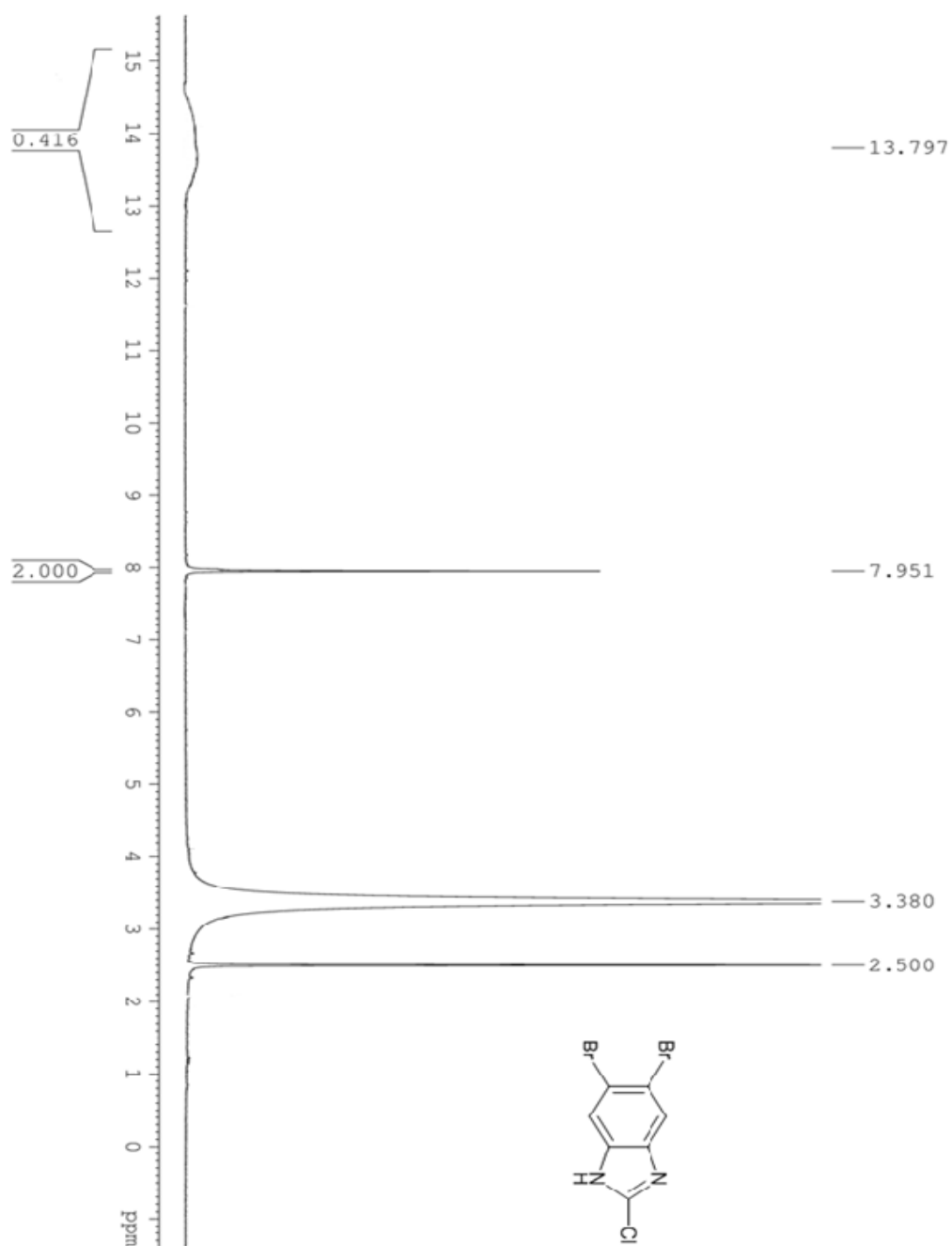
<sup>13</sup>C NMR spectrum of Compound 5c



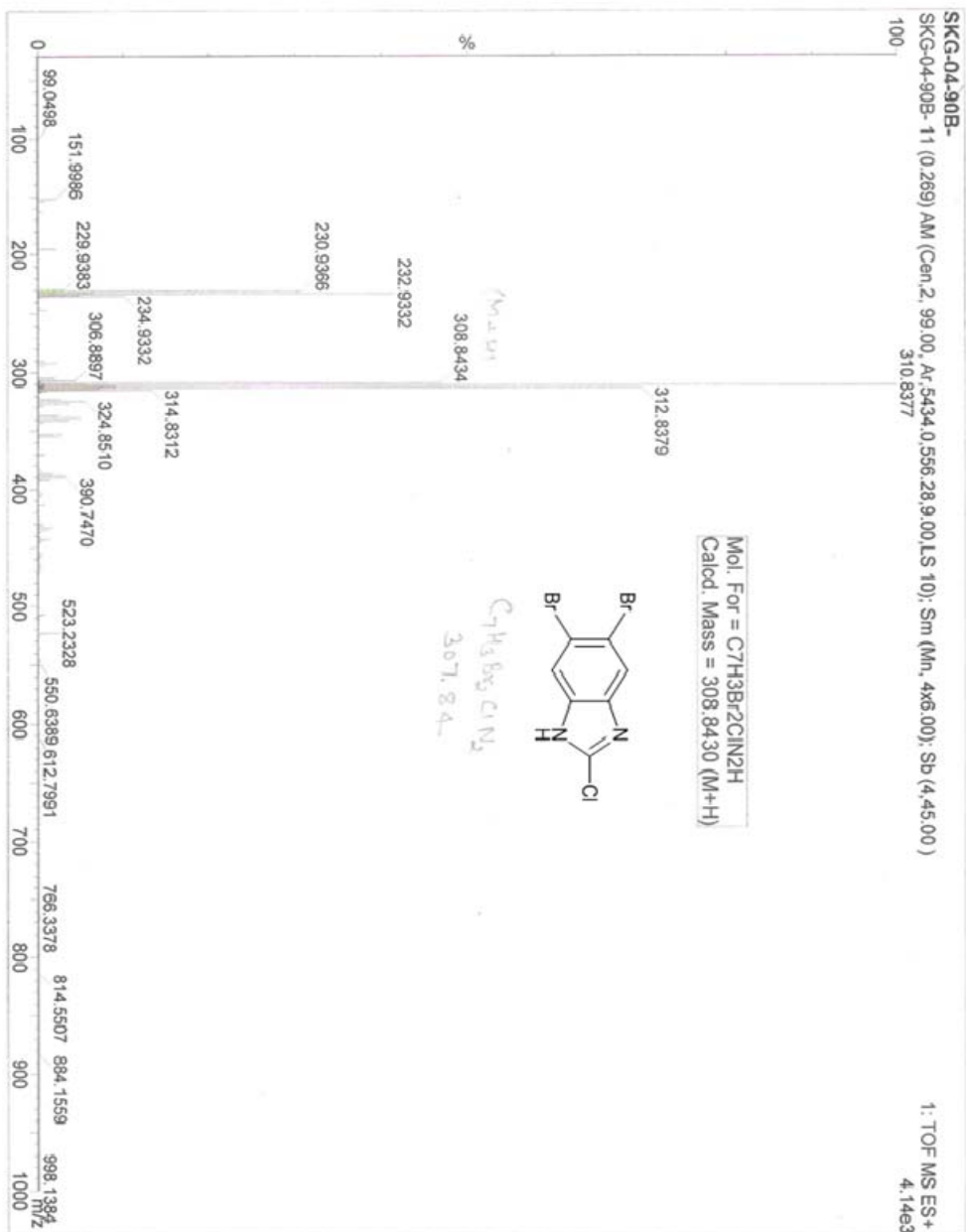
<sup>1</sup>H NMR spectrum of Compound **6b**



$^1\text{H}$  NMR spectrum of Compound 7



Mass spectrum of Compound 7





<sup>1</sup>H NMR spectrum of Compound **7c**

