

**Design and Stereoselective Preparation of a New Class of Chiral  
Olefin Metathesis Catalysts and Application to Enantioselective  
Synthesis of Quebrachamine. Catalyst Development Inspired by  
Natural Product Synthesis**

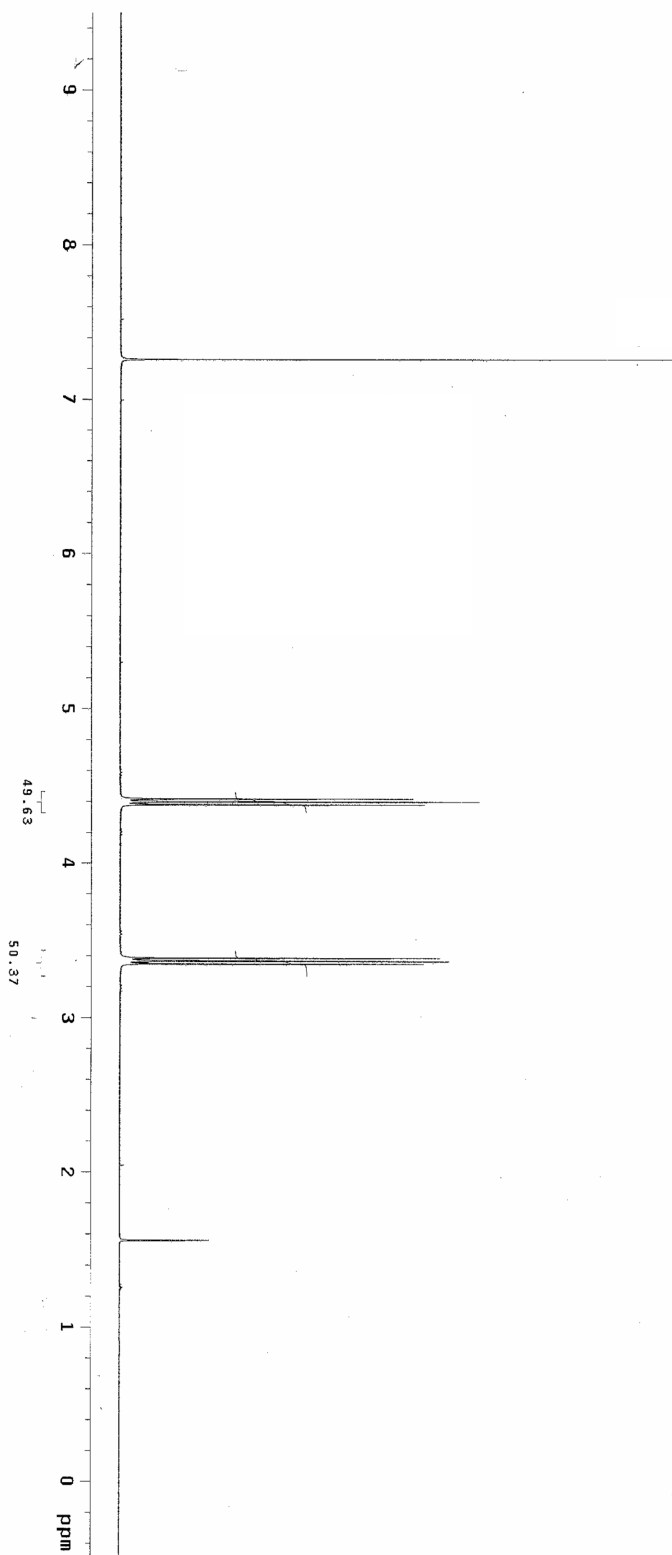
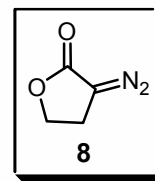
Elizabeth S. Sattely,<sup>#</sup> Simon J. Meek,<sup>#</sup> Steven J. Malcolmson,<sup>#</sup>  
Richard R. Schrock,<sup>+</sup> and Amir H. Hoveyda<sup>#,\*</sup>

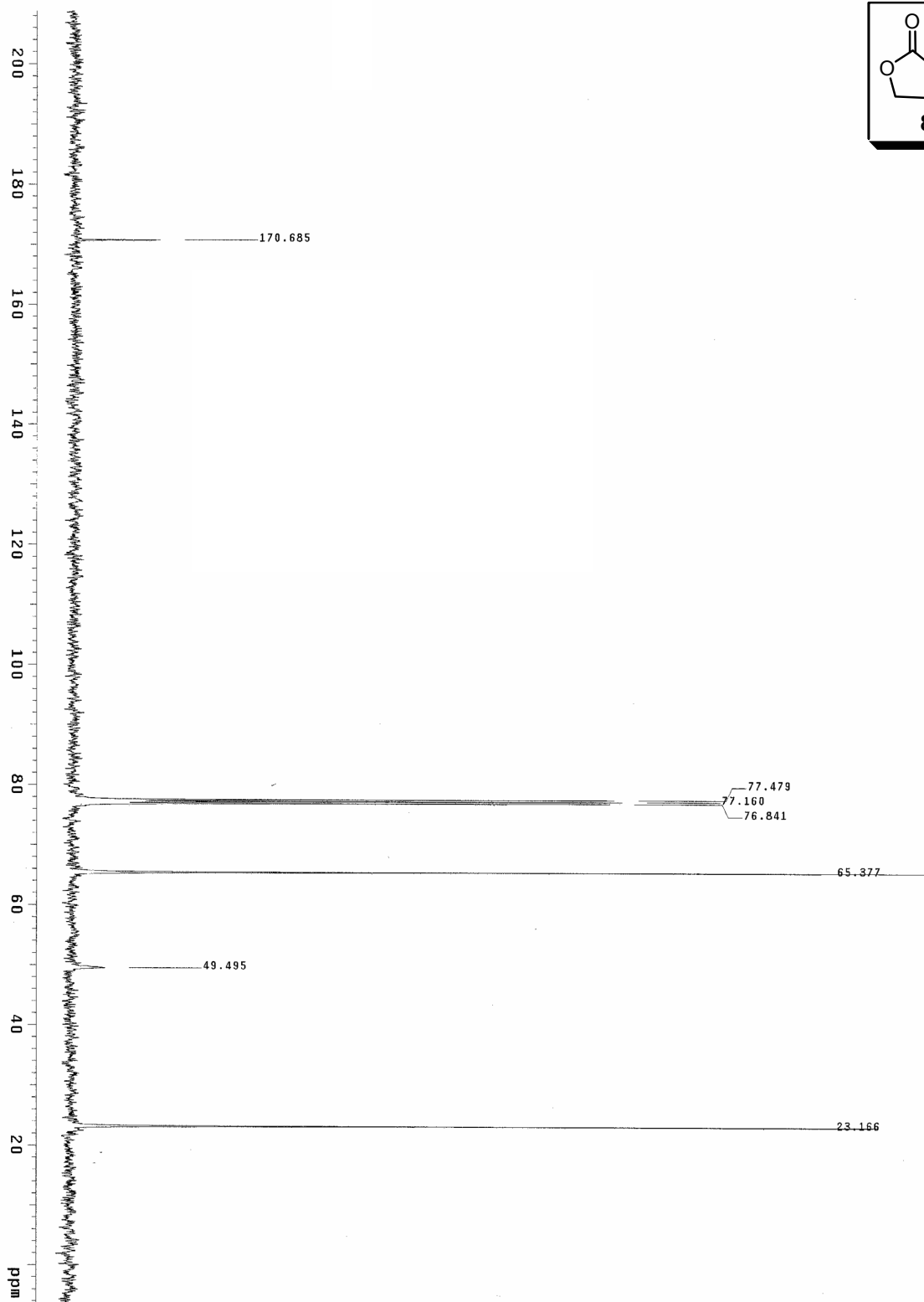
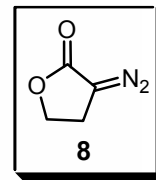
<sup>#</sup>*Department of Chemistry, Merkert Chemistry Center, Boston College  
Chestnut Hill, Massachusetts 02467*

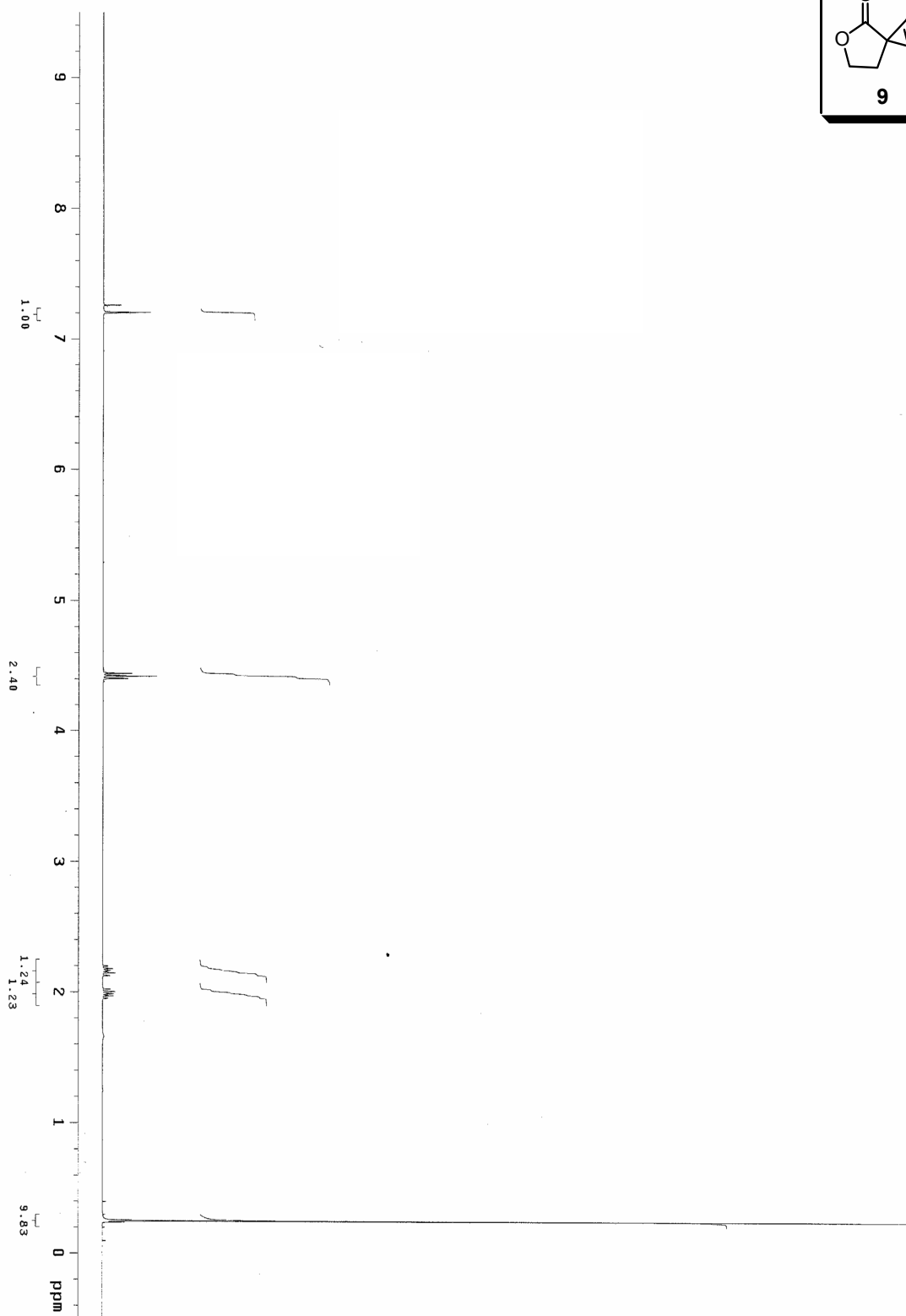
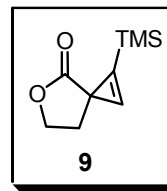
<sup>+</sup>*Department of Chemistry, Massachusetts Institute of Technology  
Cambridge, Massachusetts 02139*

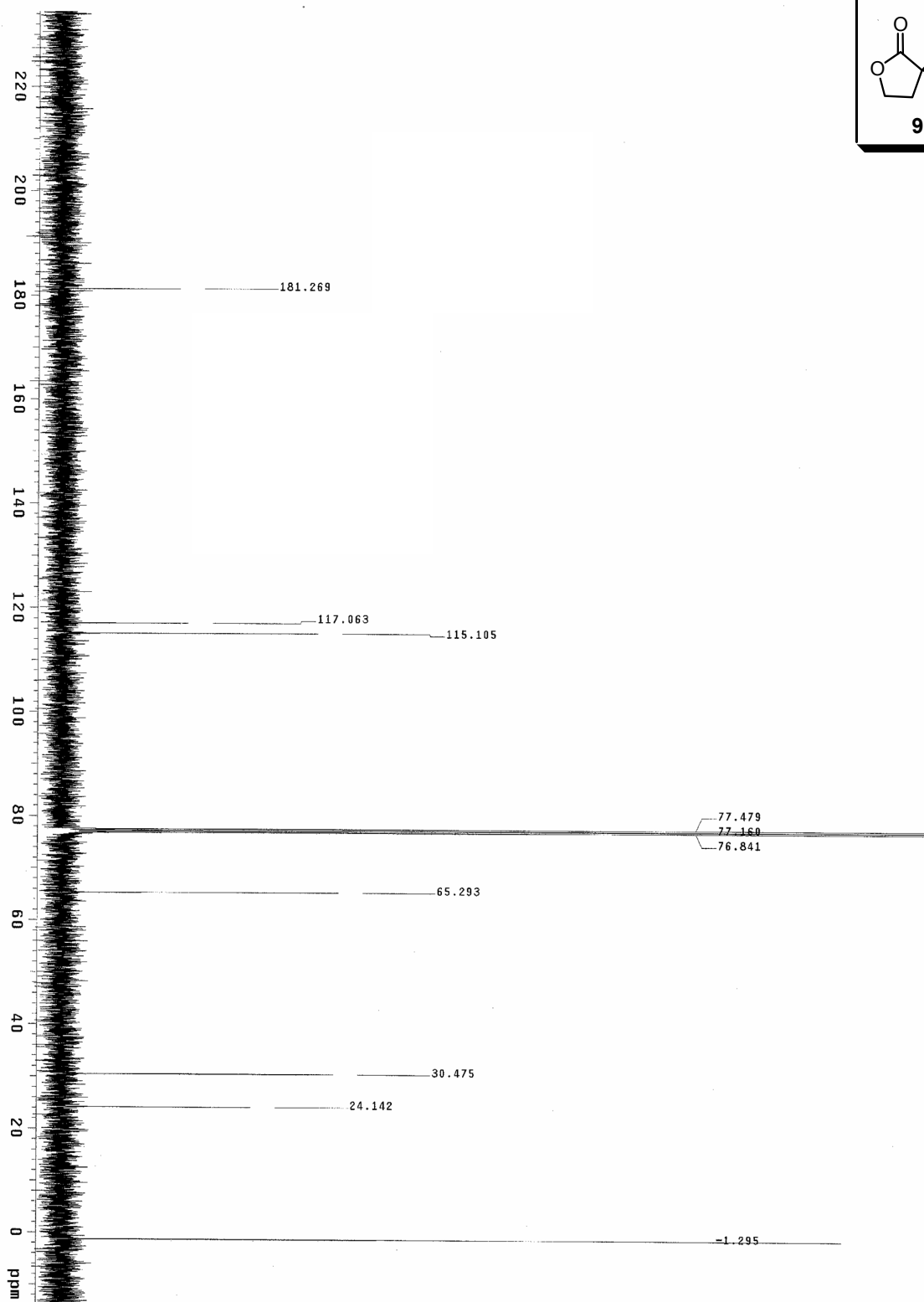
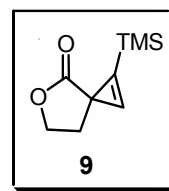
**SUPPORTING INFORMATION: PART B**

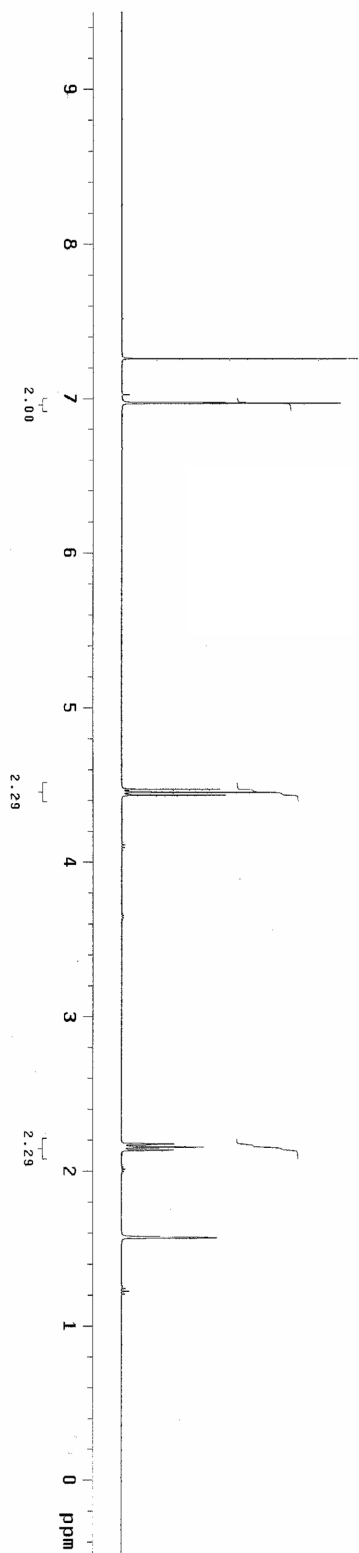
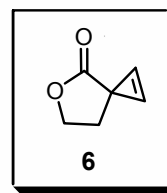
- <sup>1</sup>H and <sup>13</sup>C NMR spectra

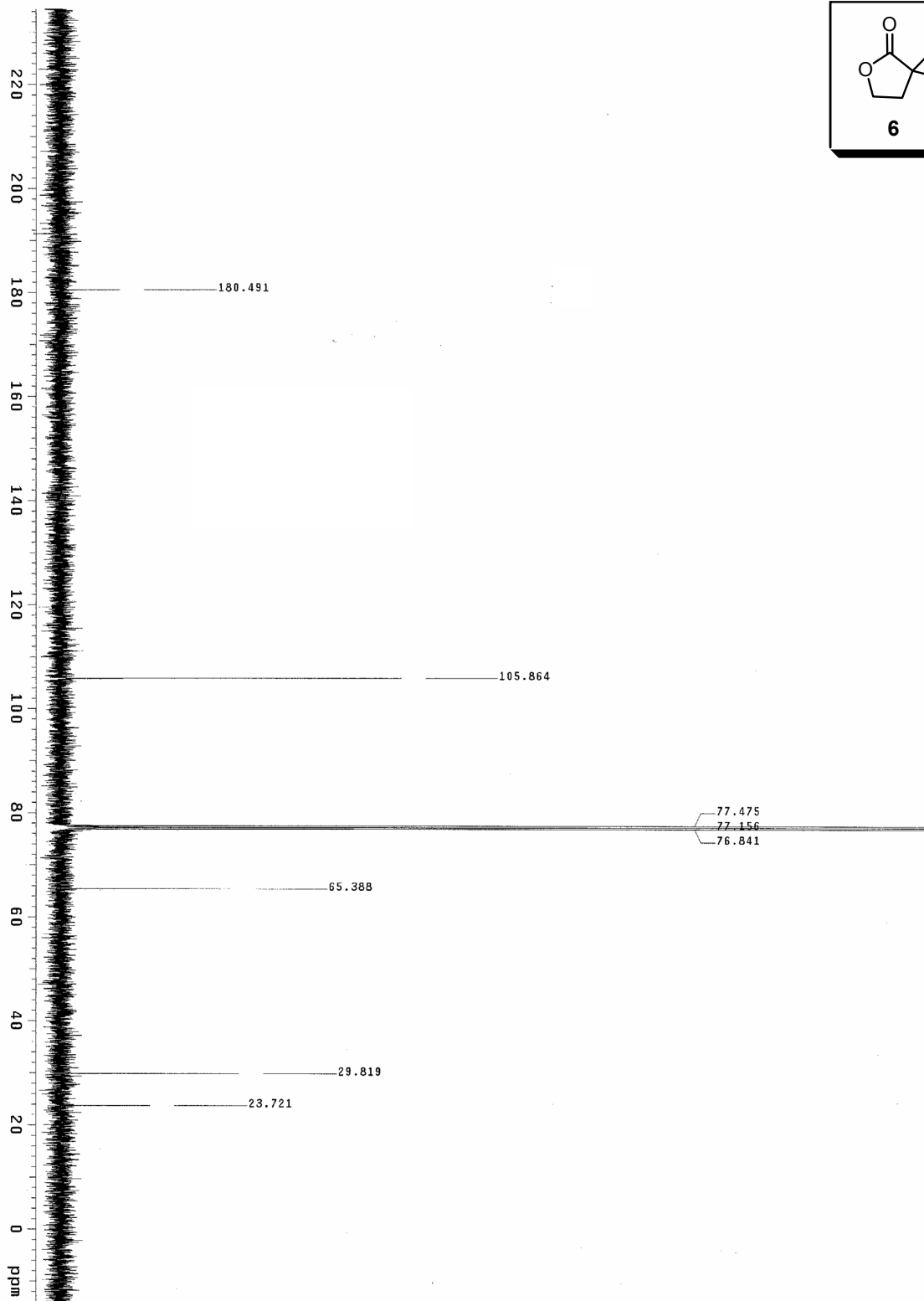
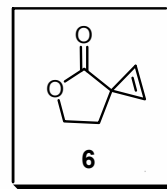


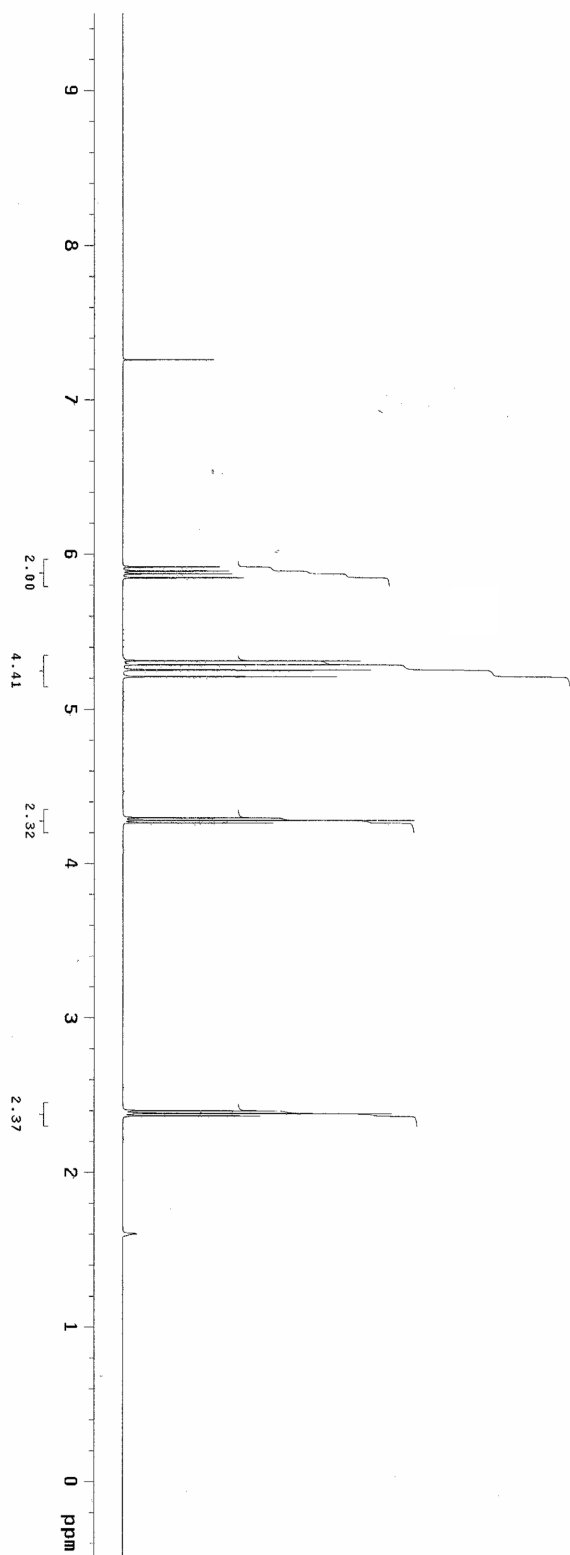
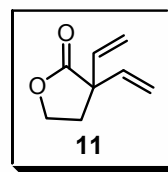




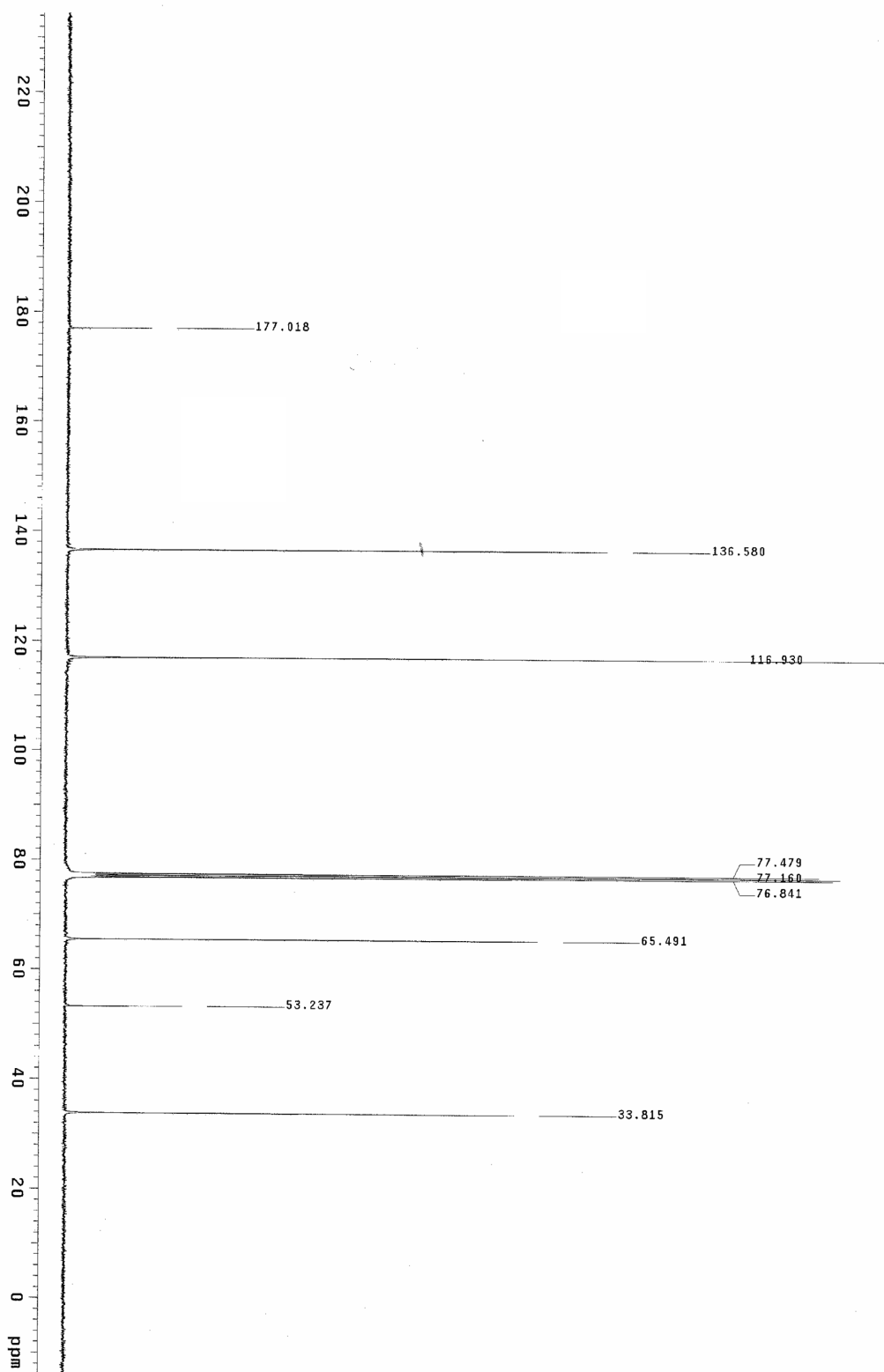
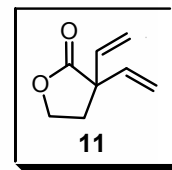


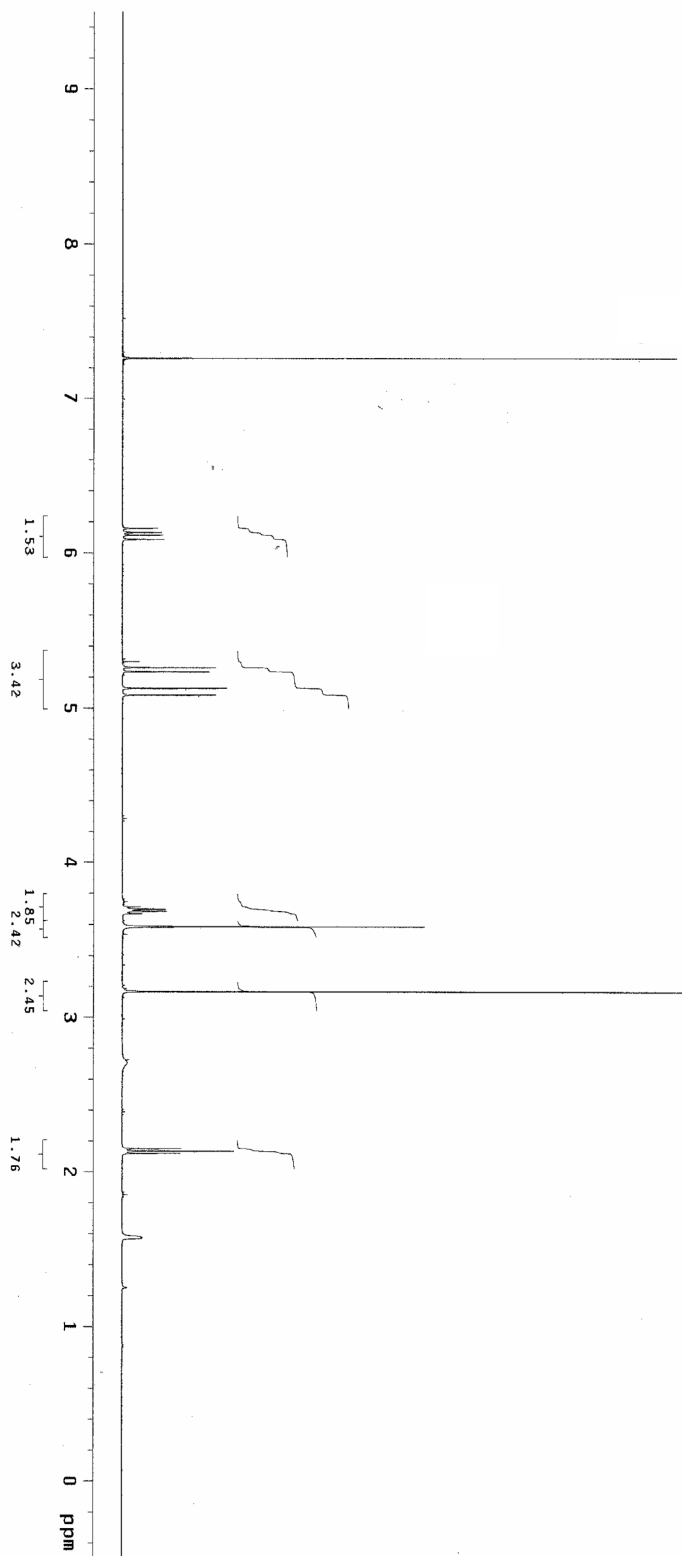
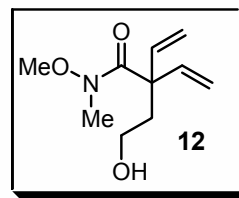


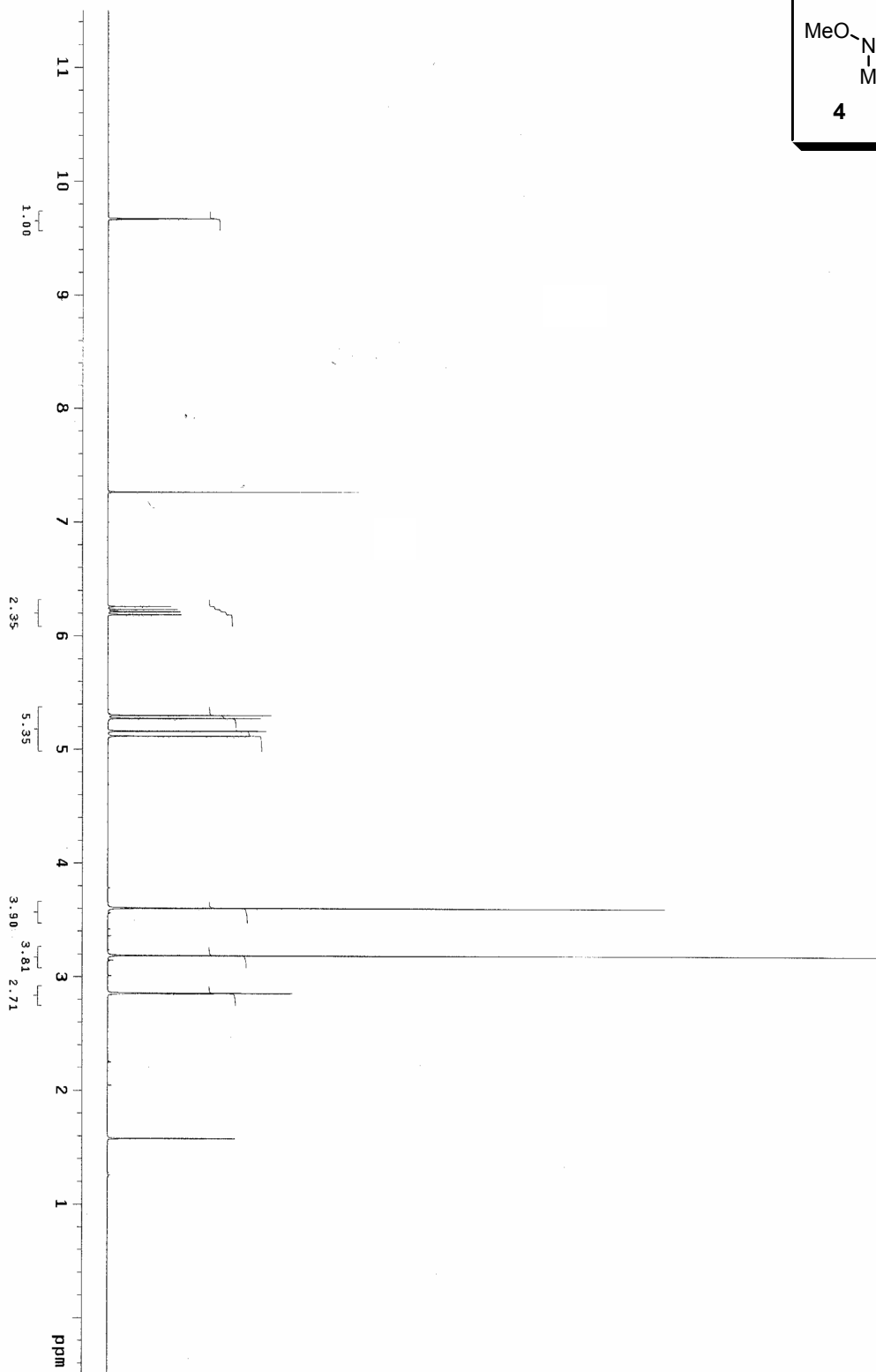
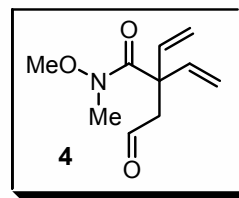


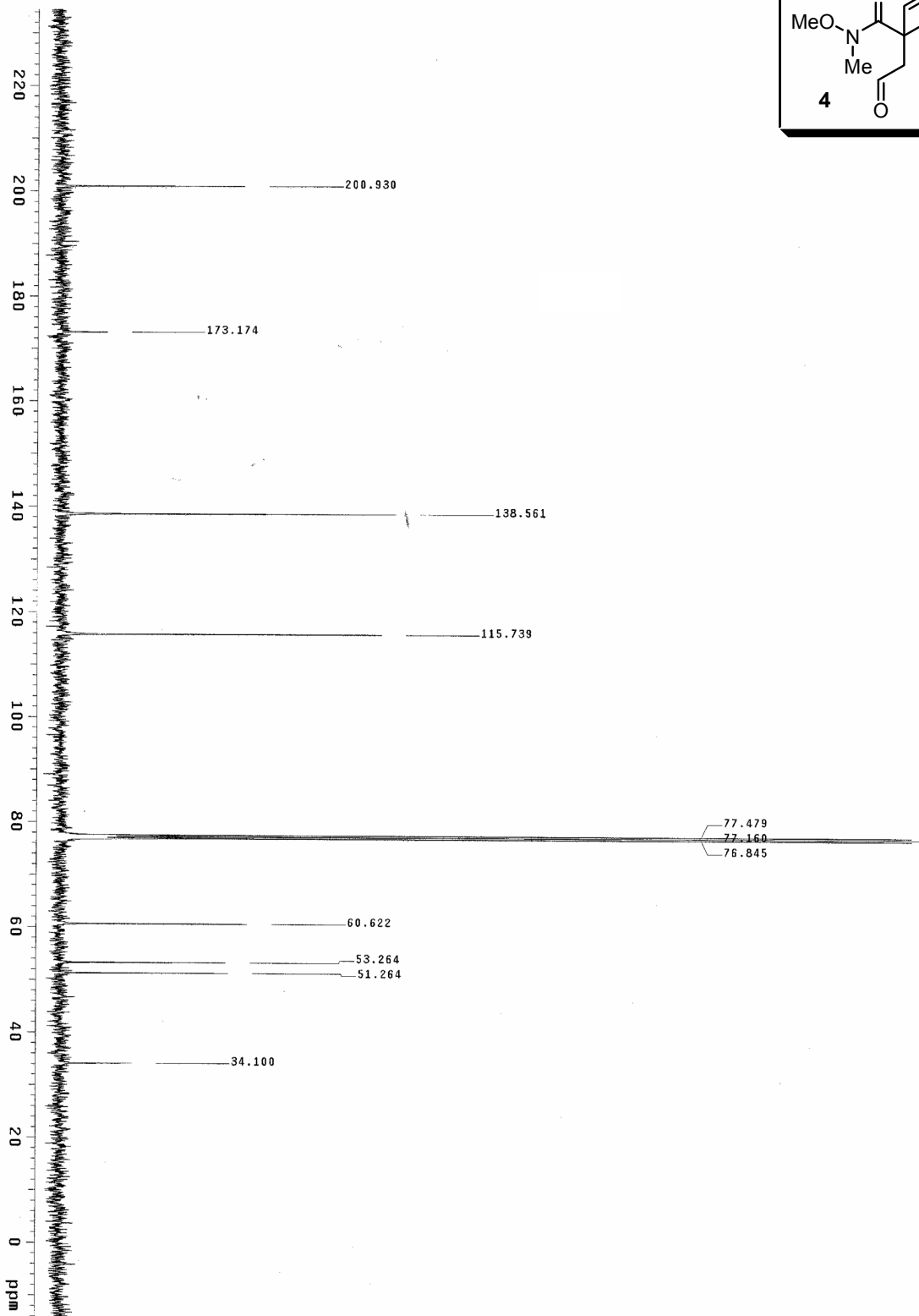
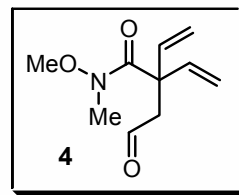


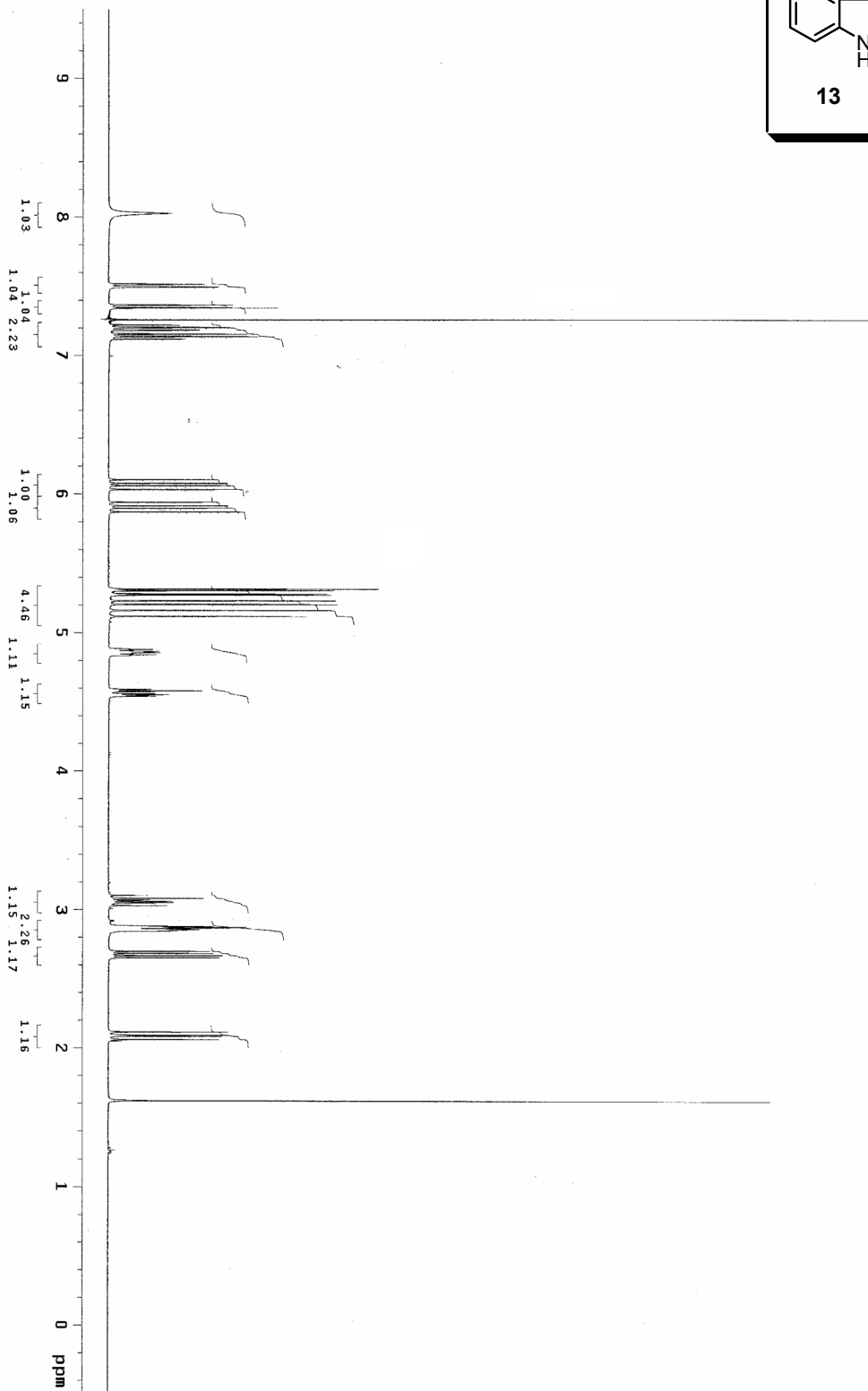
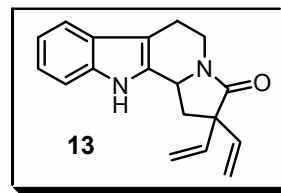


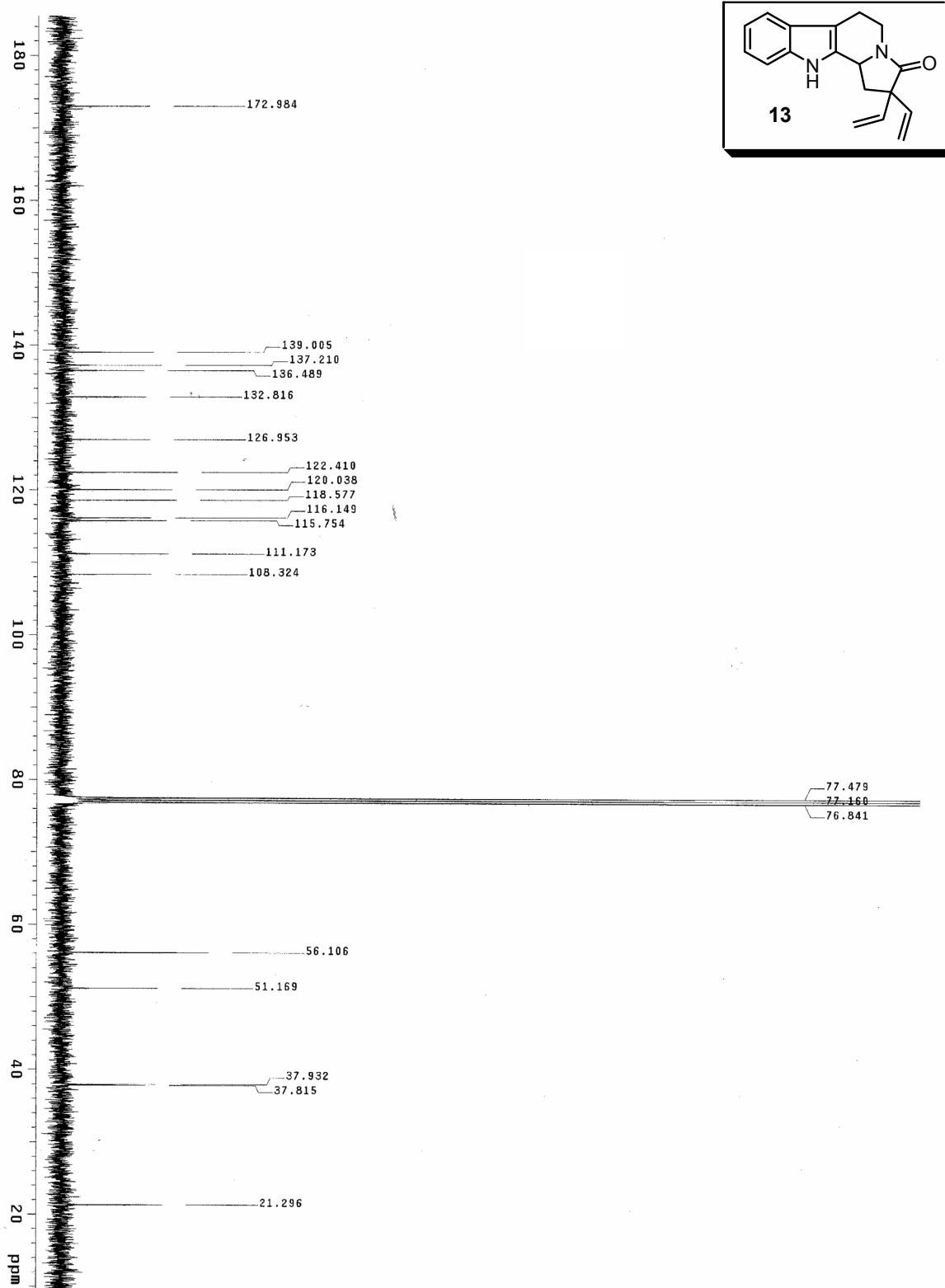


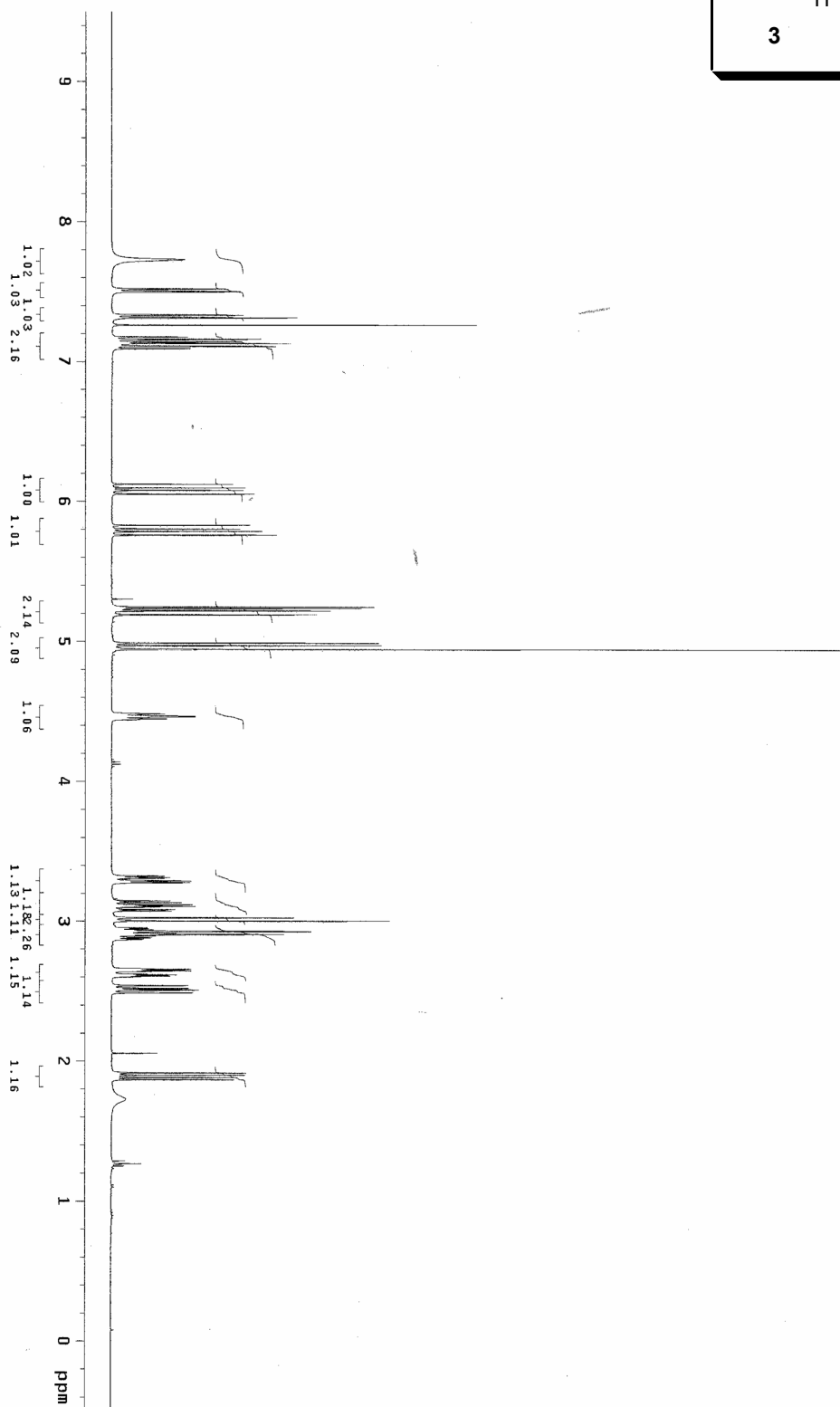
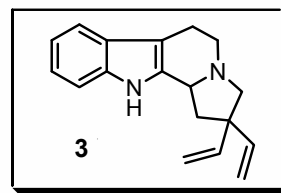


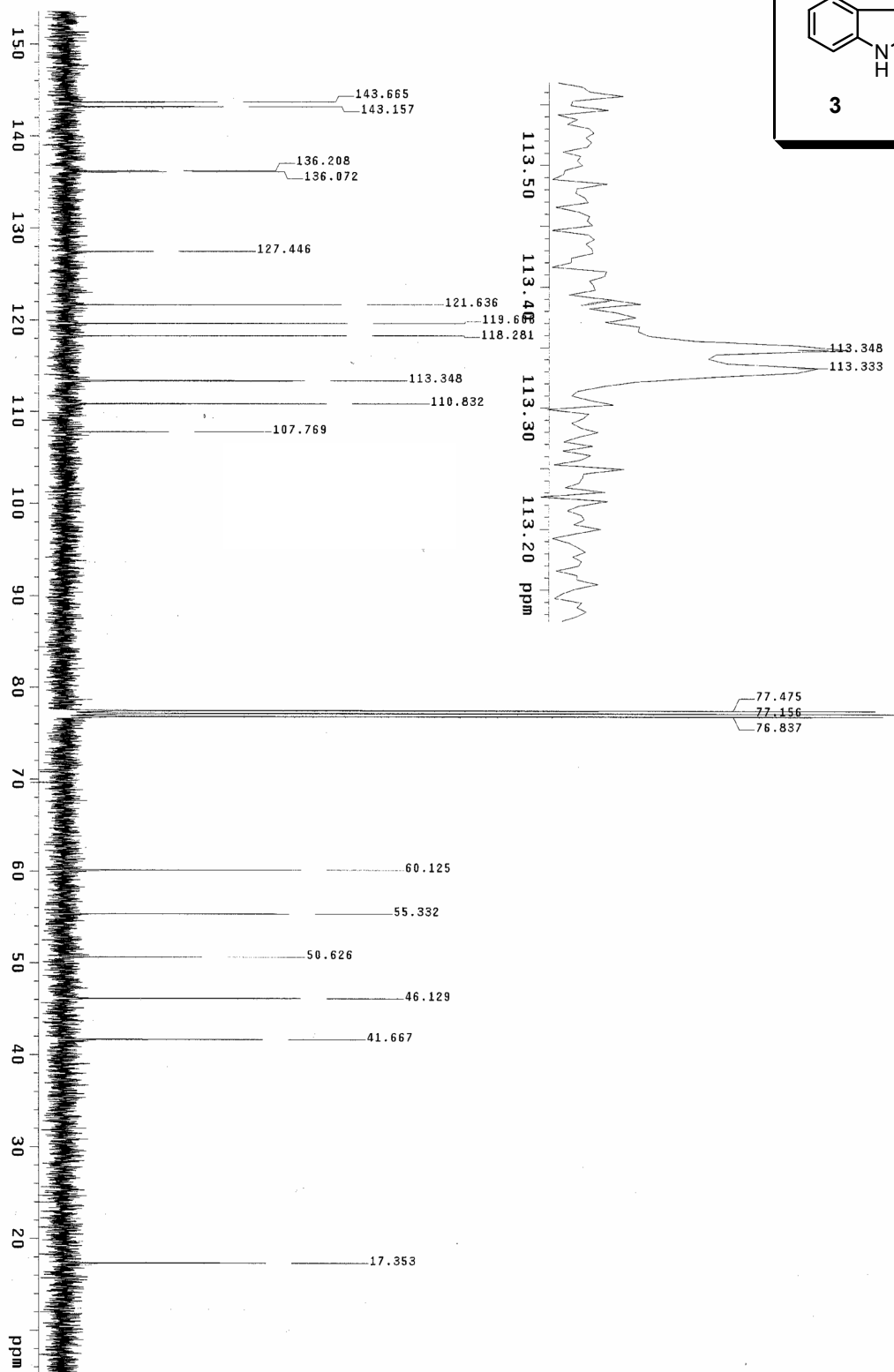




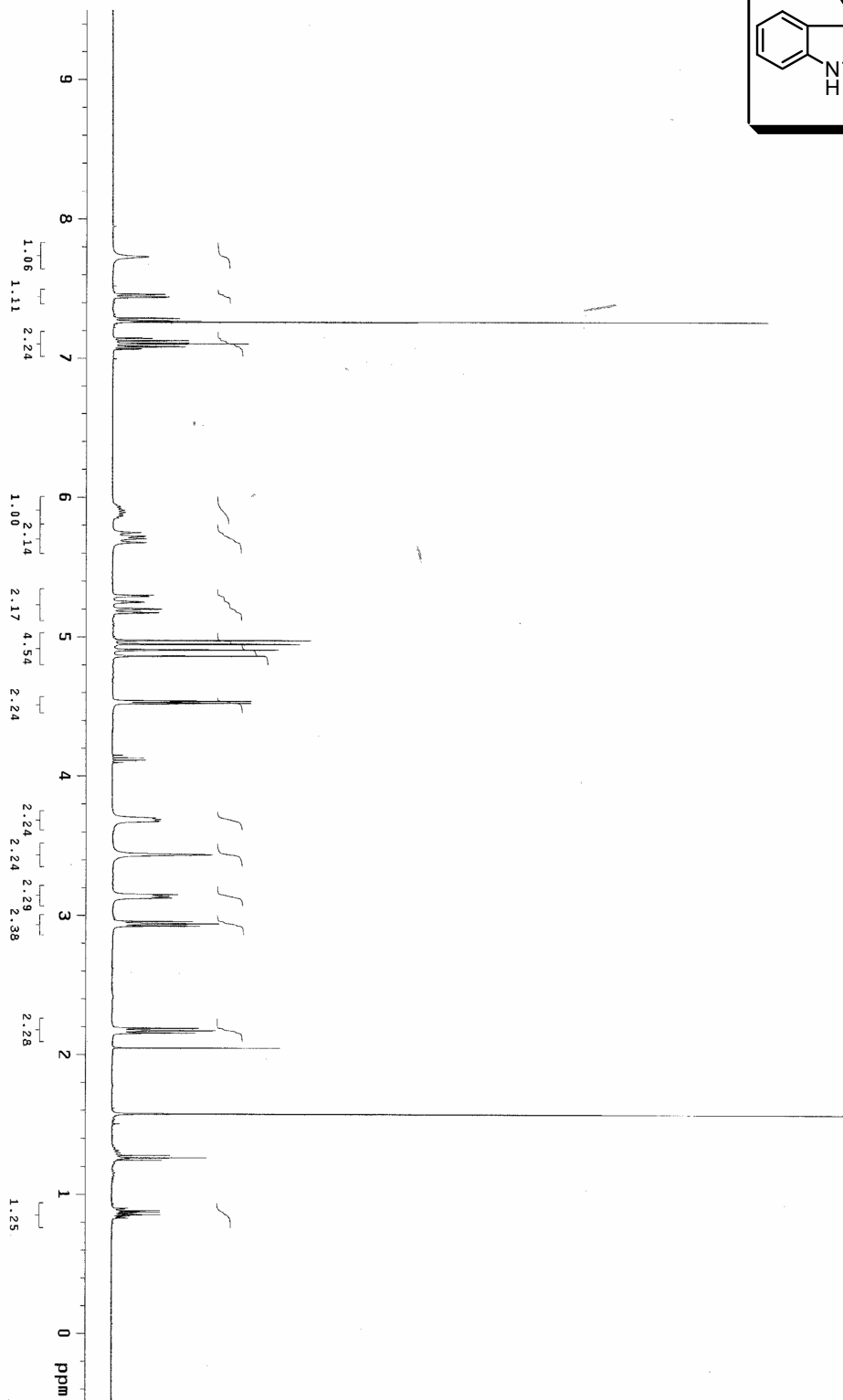
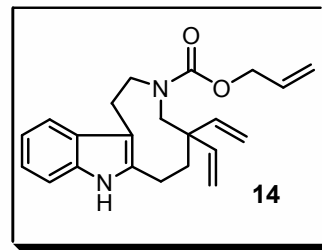


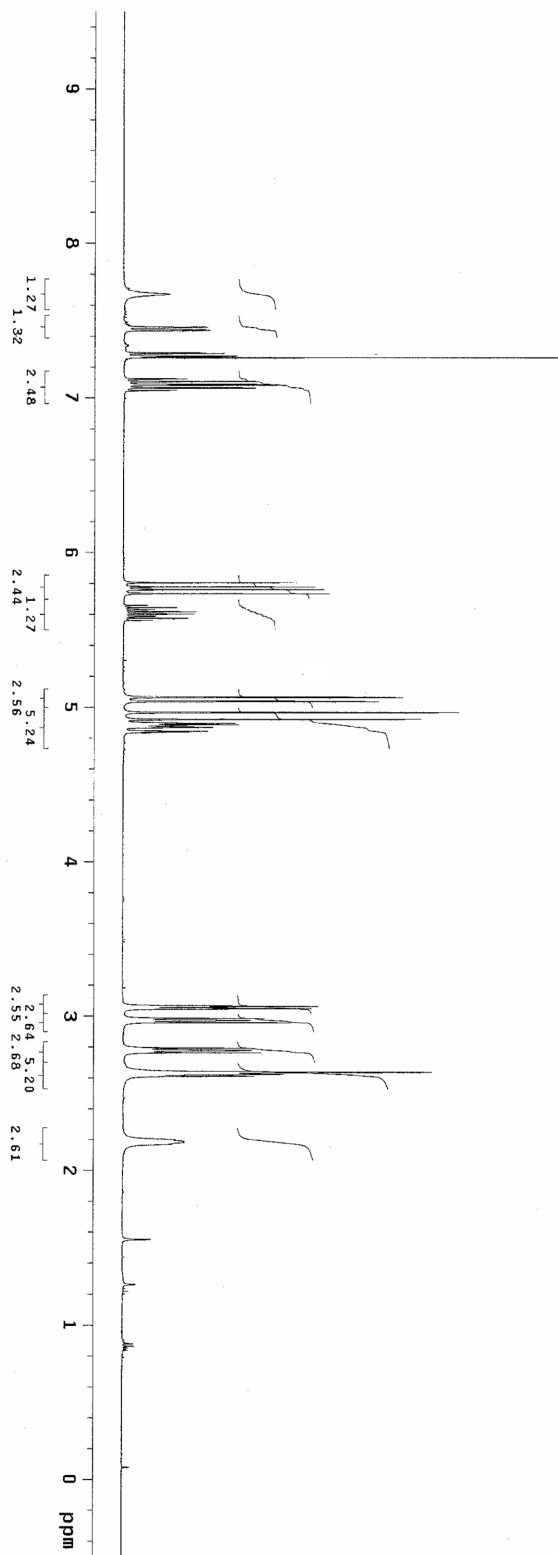
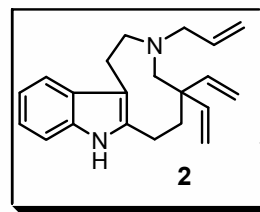


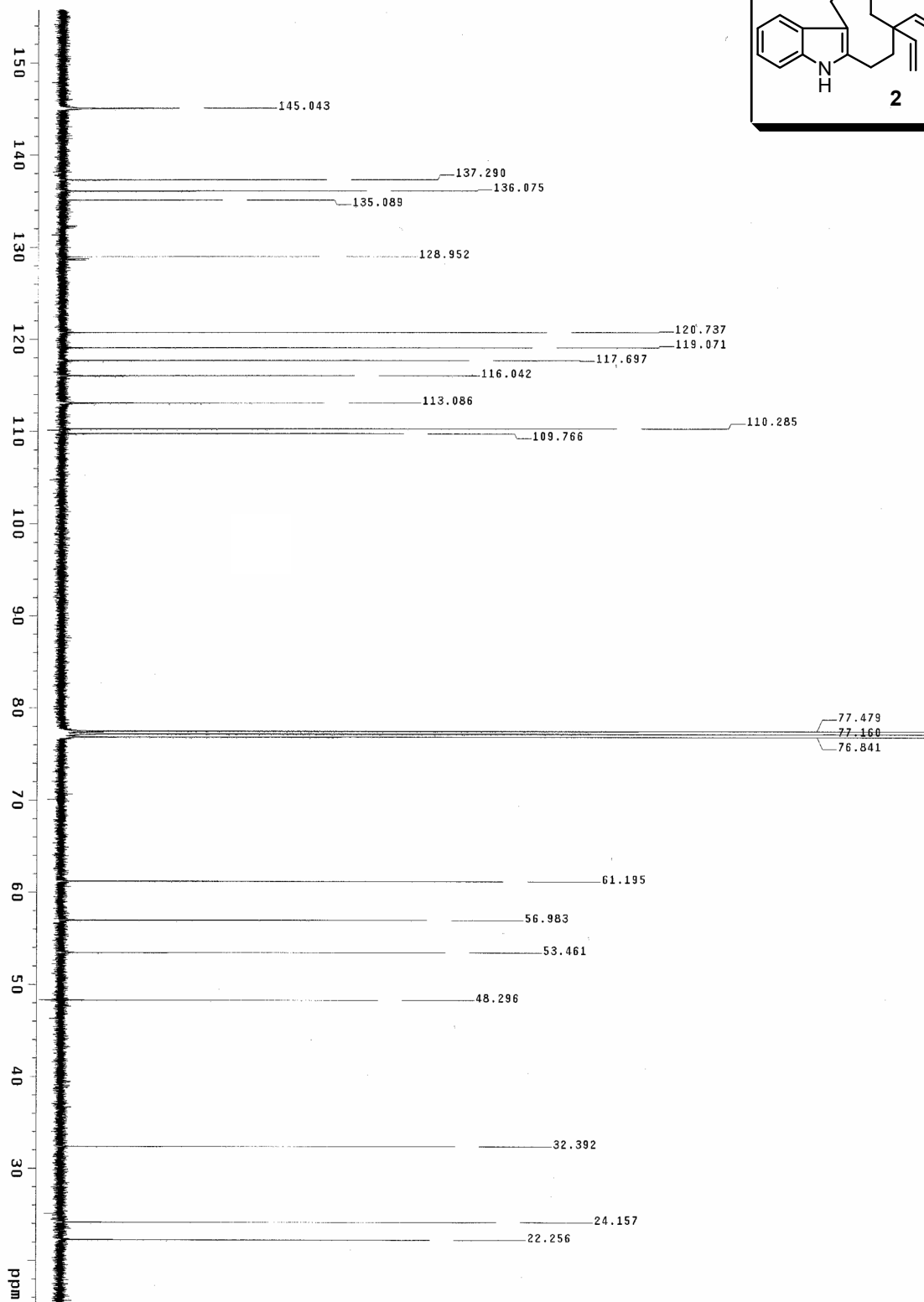
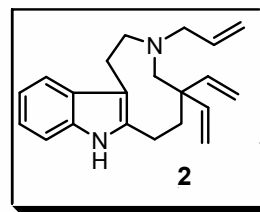


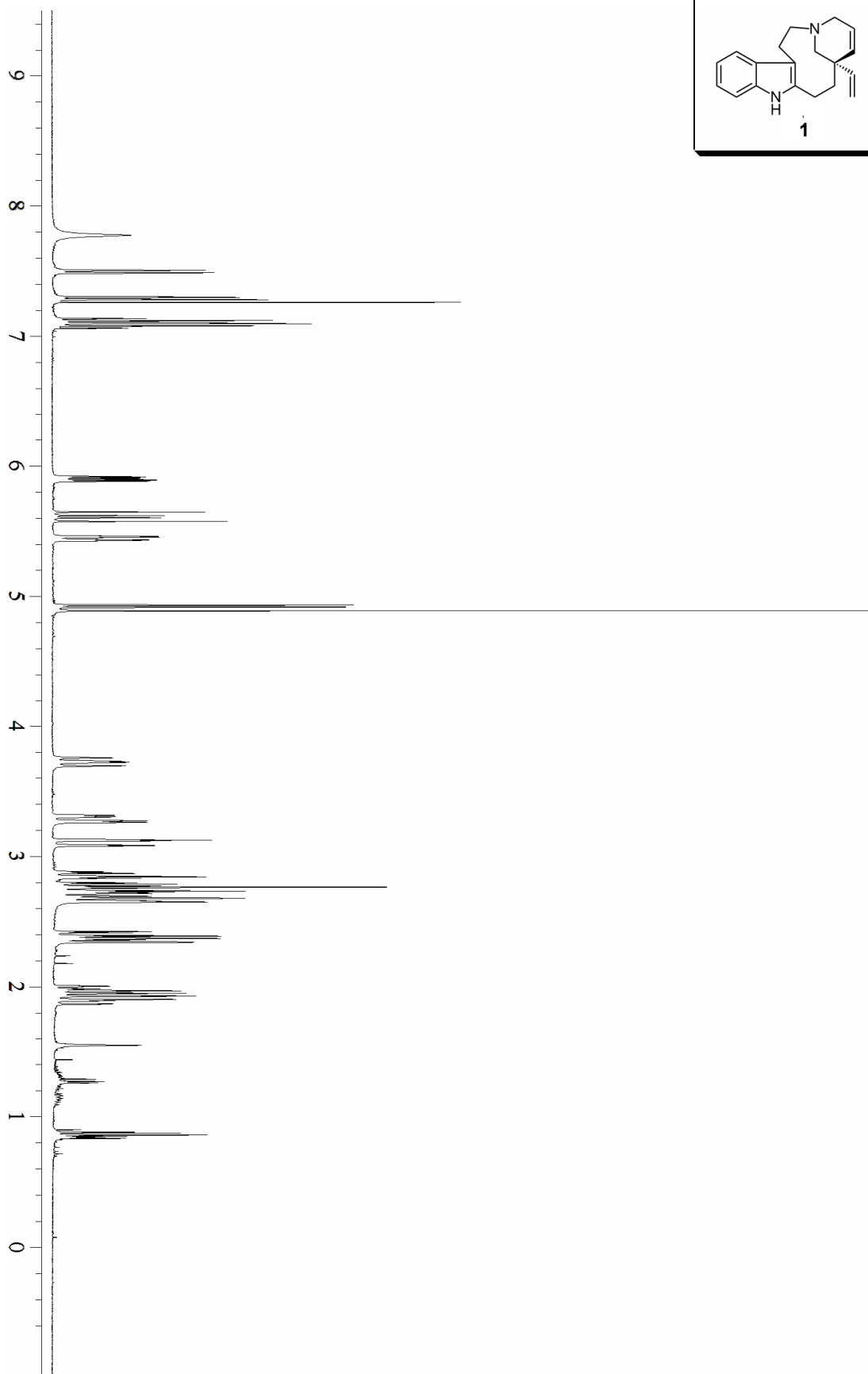
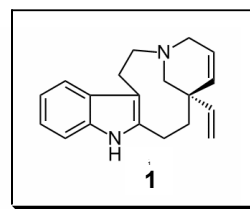


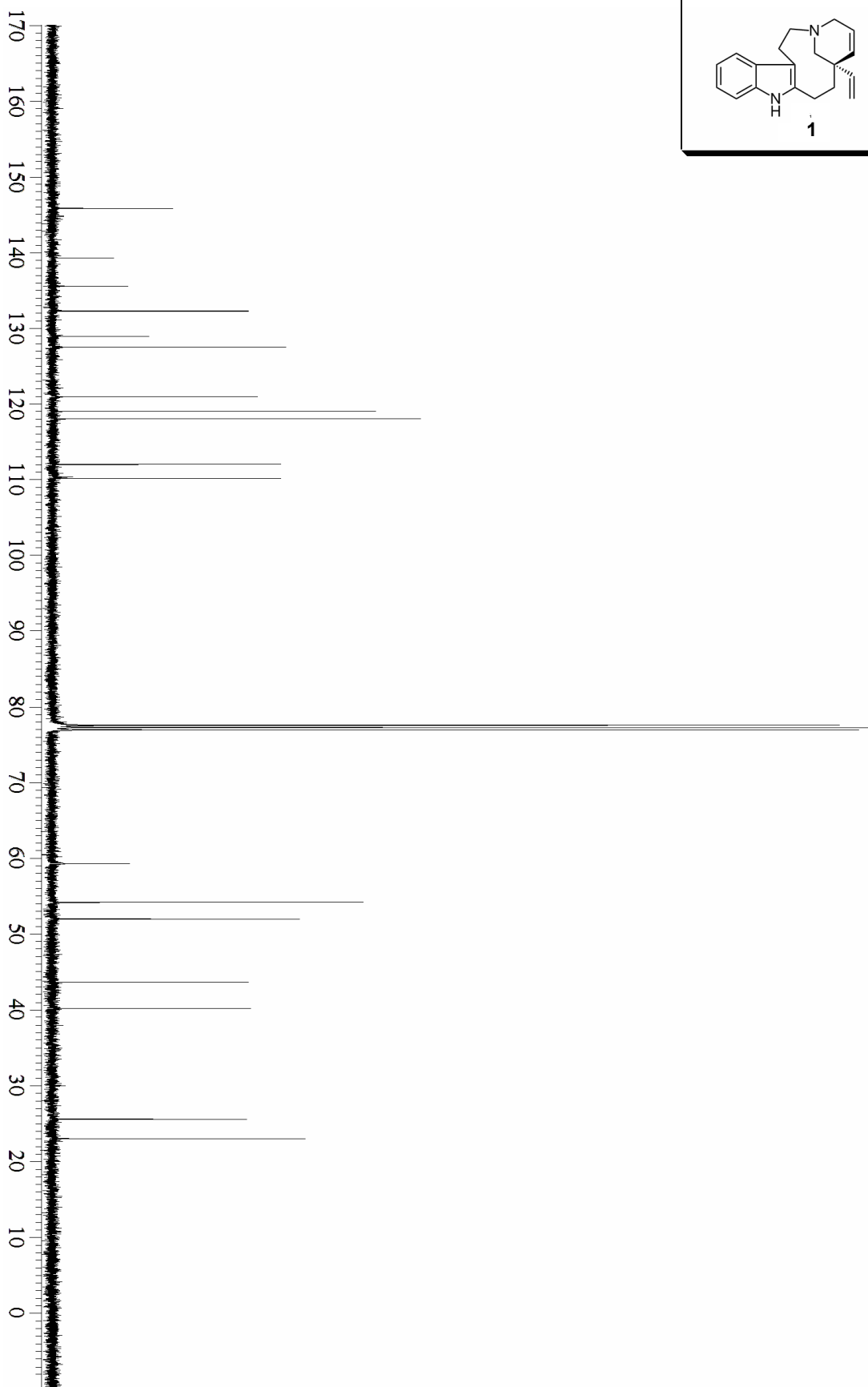
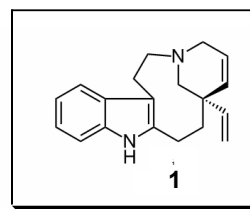


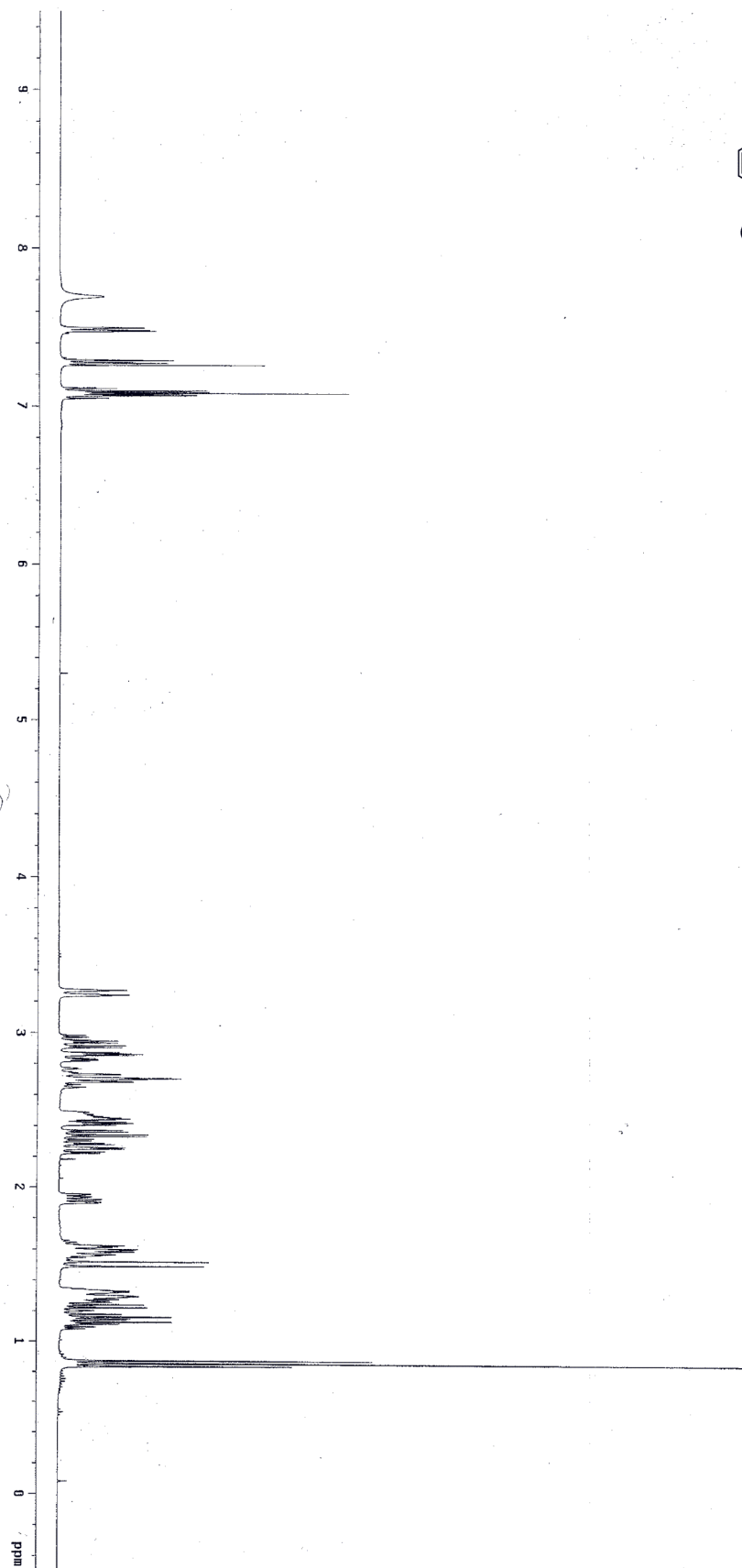
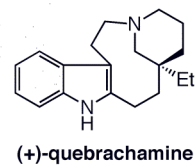


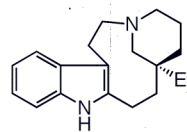












**(+)-quebrachamine**

