

APPENDIX ONE

Spectra Relevant to Chapter Three: Palladium-Catalyzed Aerobic Wacker Cyclizations and the Formal Total Synthesis of Cephalotaxine

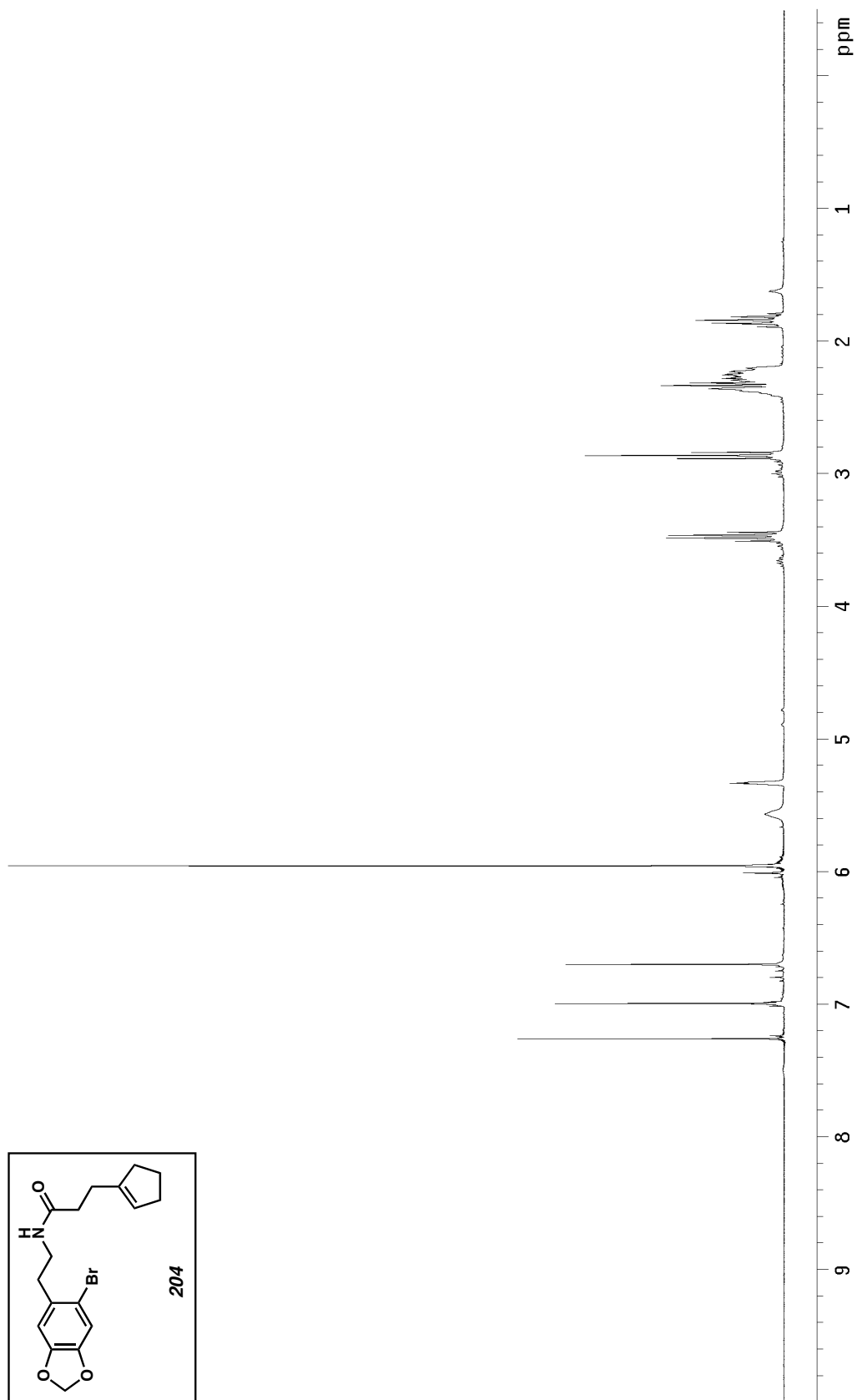
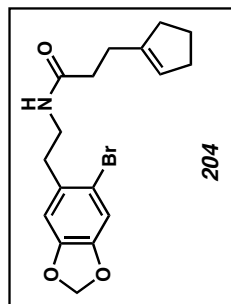


Figure A1.1 $^1\text{H NMR}$ (300 MHz, CDCl_3) of compound 204.

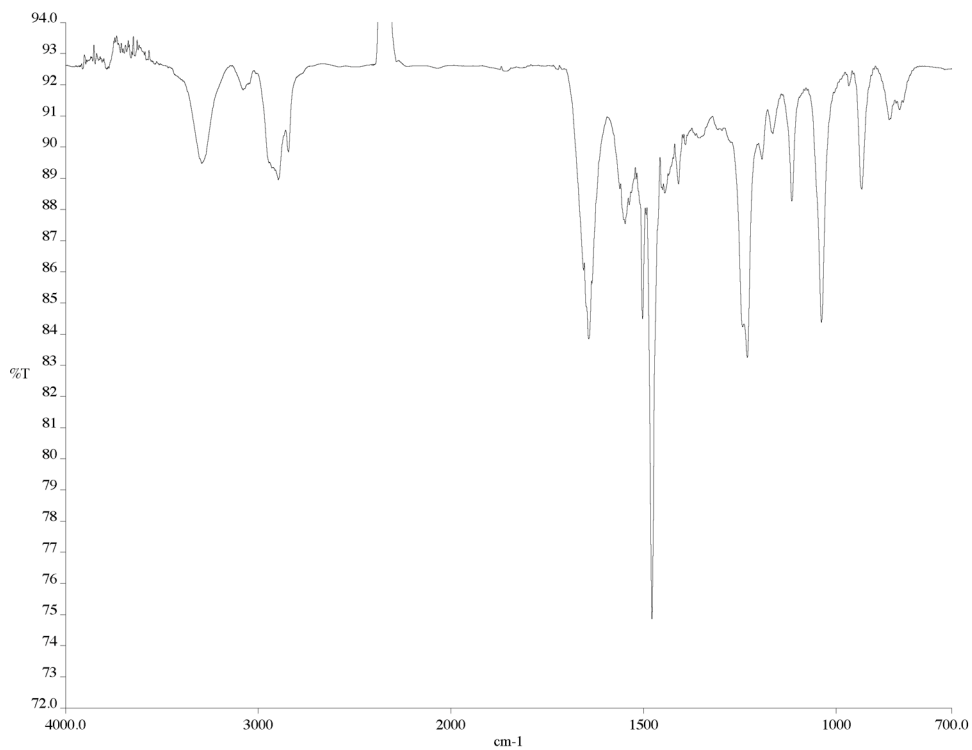


Figure A1.2 Infrared spectrum (thin film/NaCl) of compound **204**.

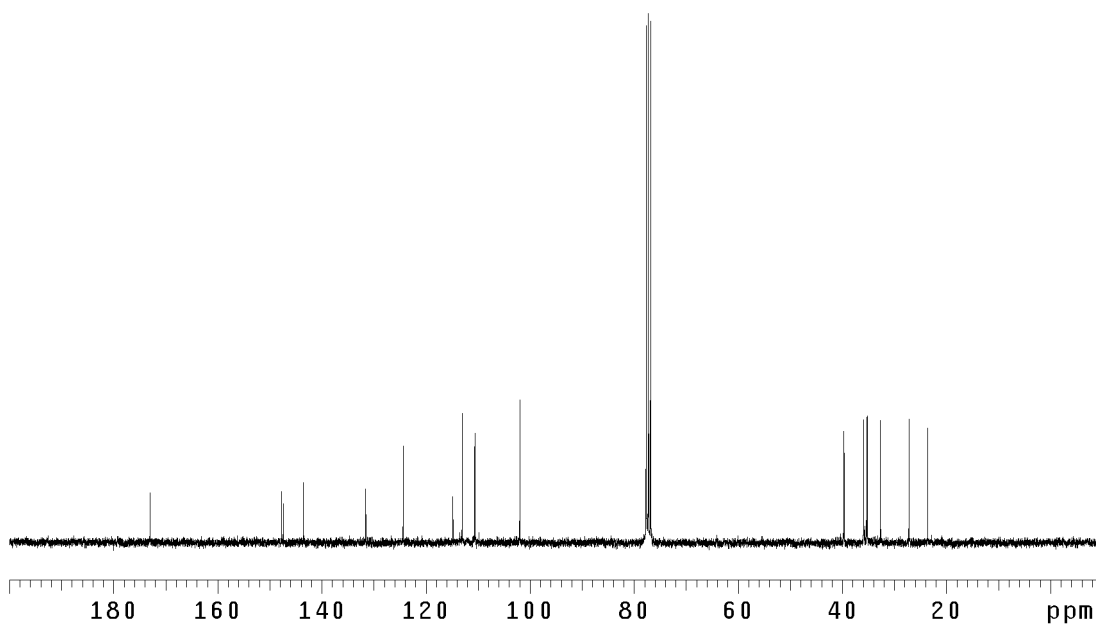


Figure A1.3 ¹³C NMR (75 MHz, CDCl₃) of compound **204**.

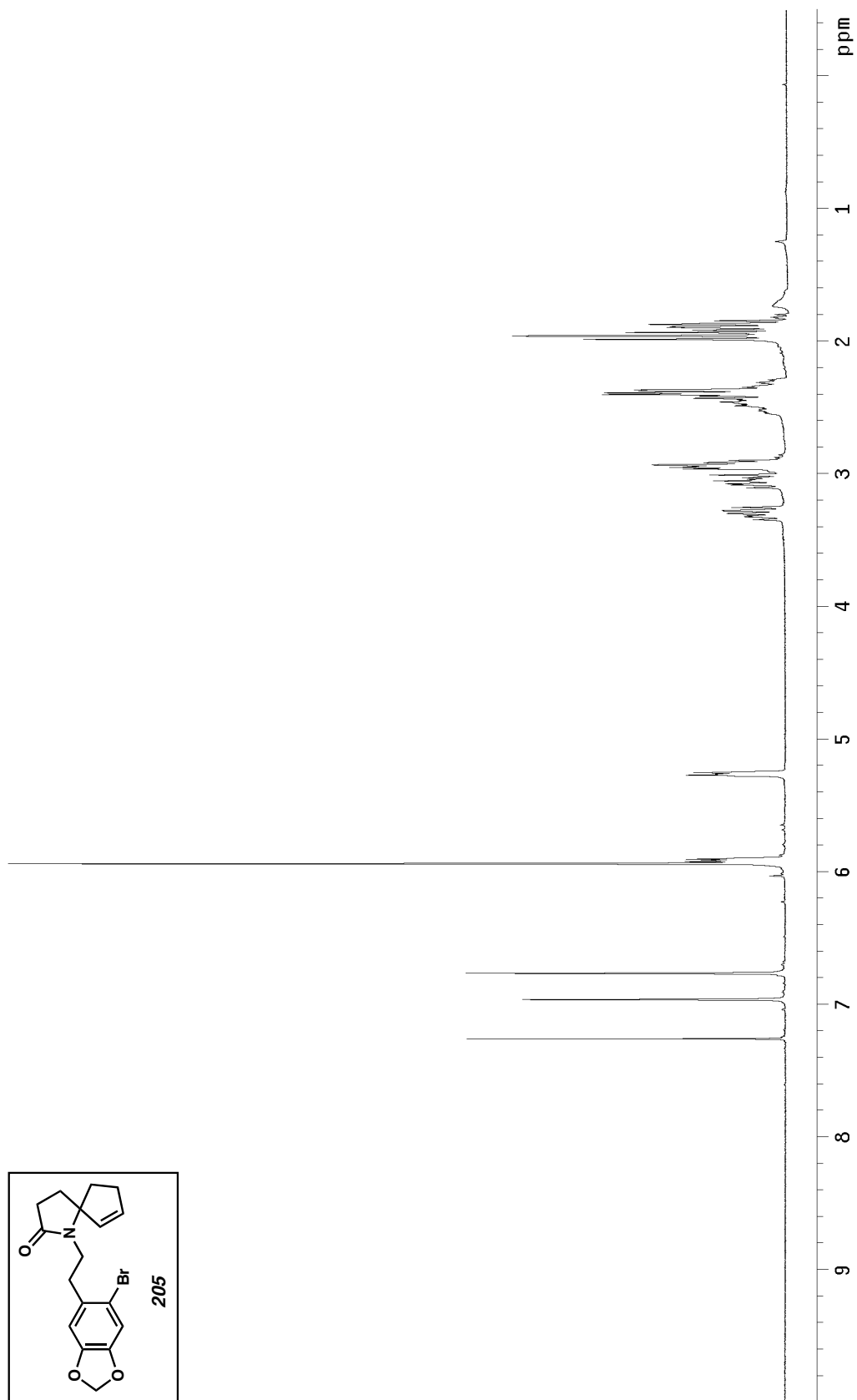
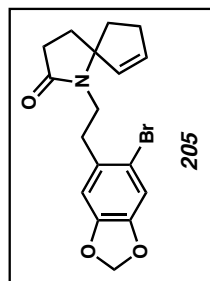


Figure A1.4 $^1\text{H NMR}$ (300 MHz, CDCl_3) of compound 205.

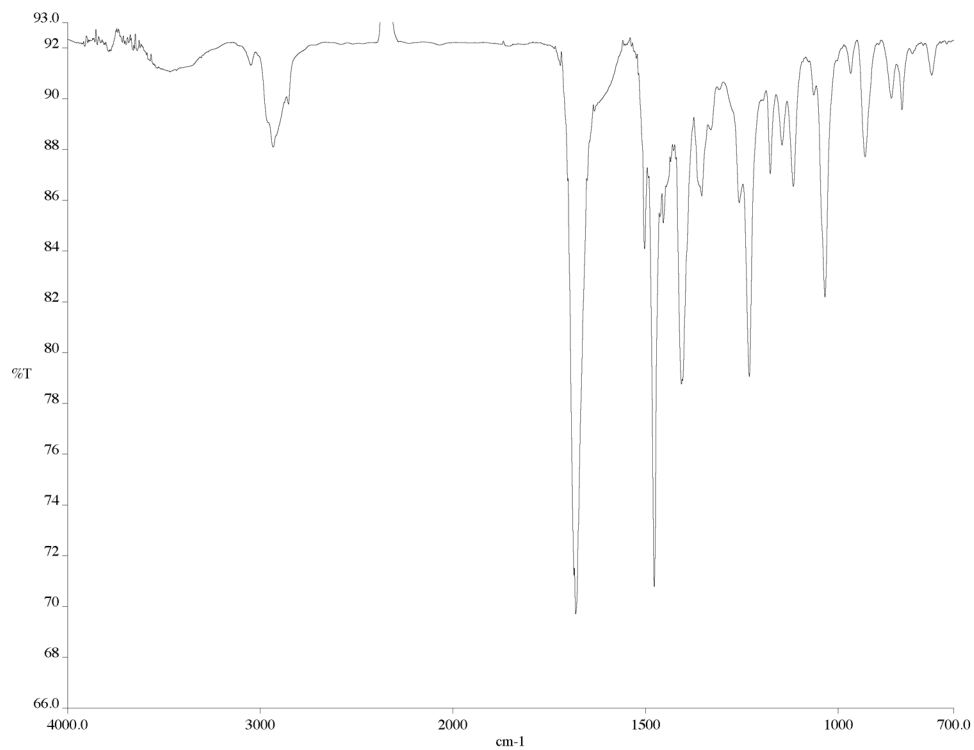


Figure A1.5 Infrared spectrum (thin film/NaCl) of compound **205**.

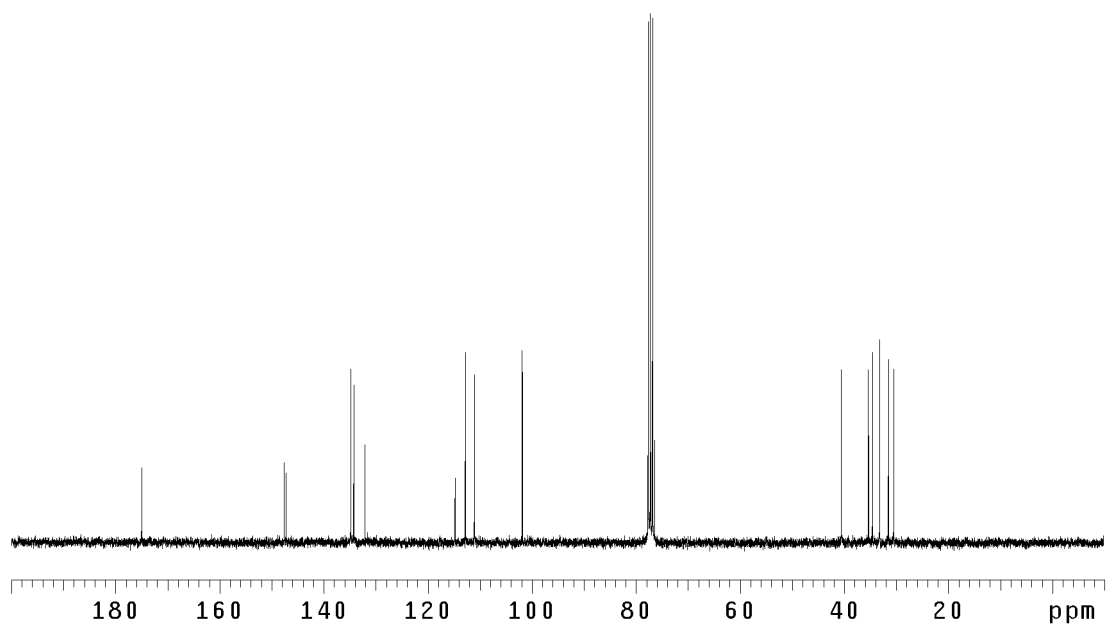


Figure A1.6 ¹³C NMR (75 MHz, CDCl₃) of compound **205**.

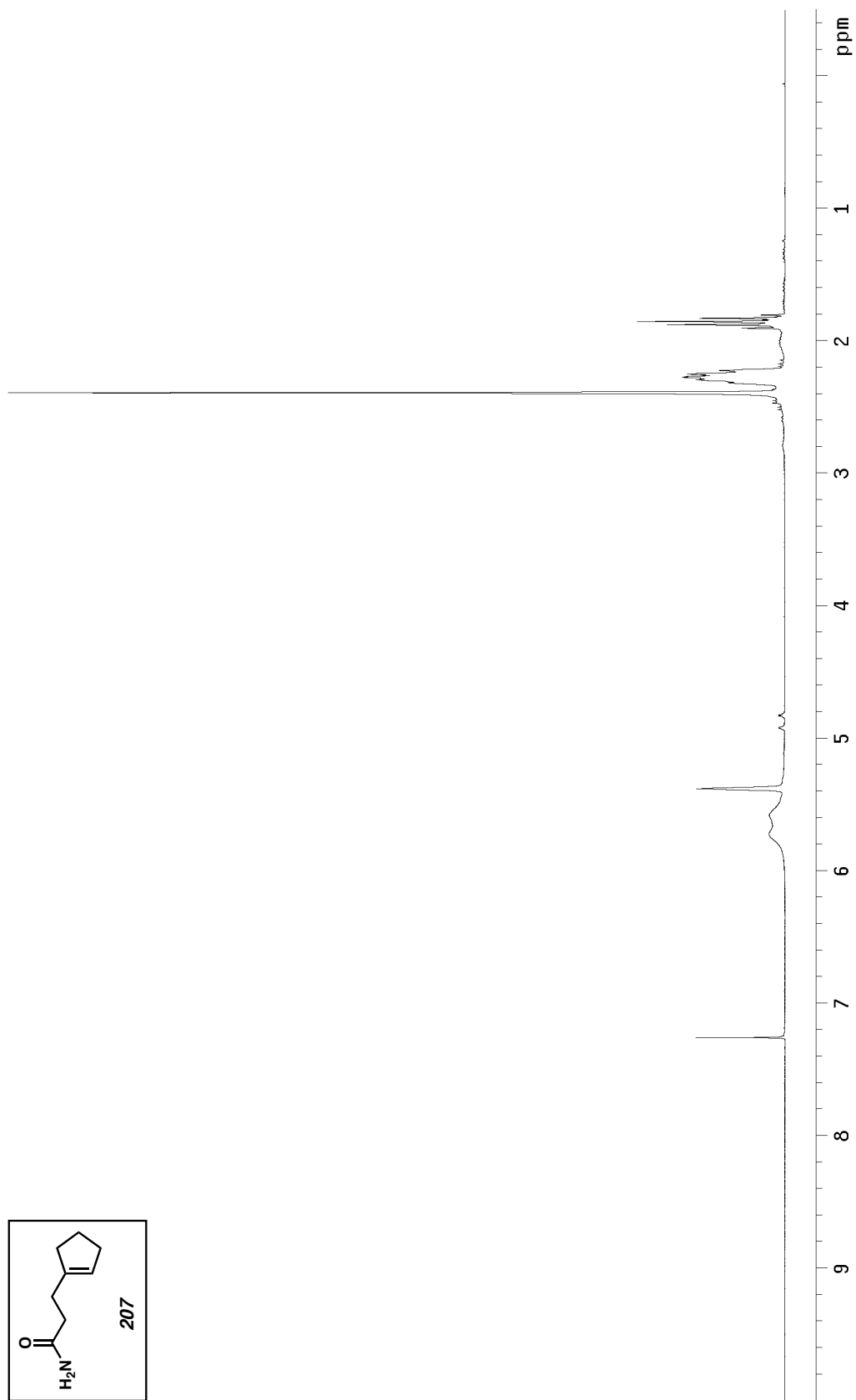
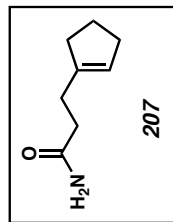


Figure A1.7 ¹H NMR (300 MHz, CDCl₃) of compound 207.

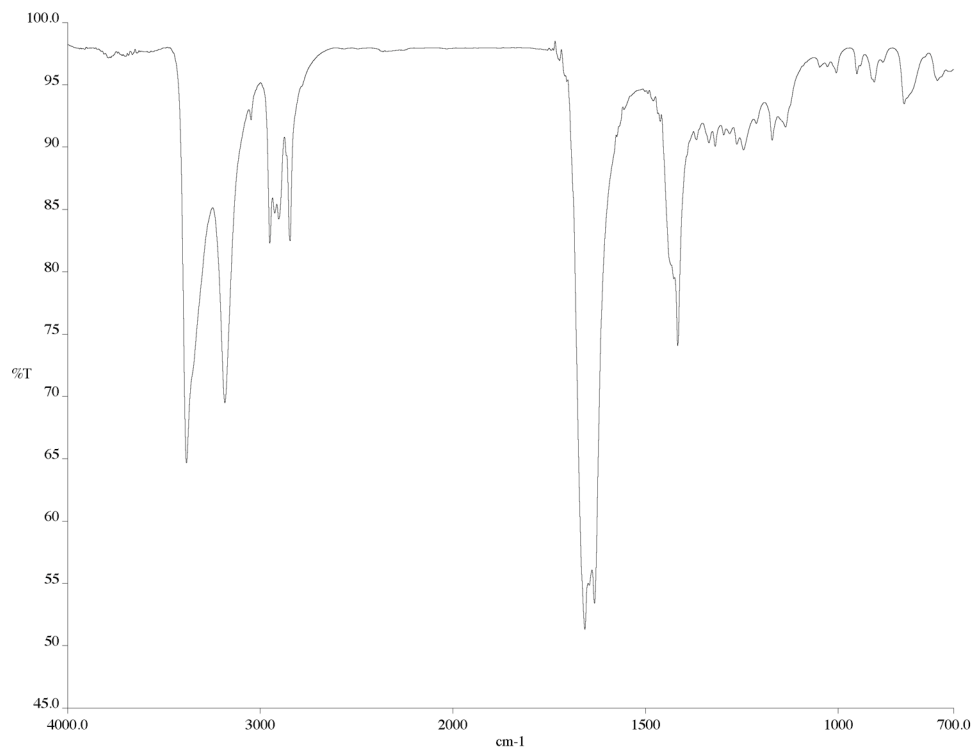


Figure A1.8 Infrared spectrum (thin film/NaCl) of compound **207**.

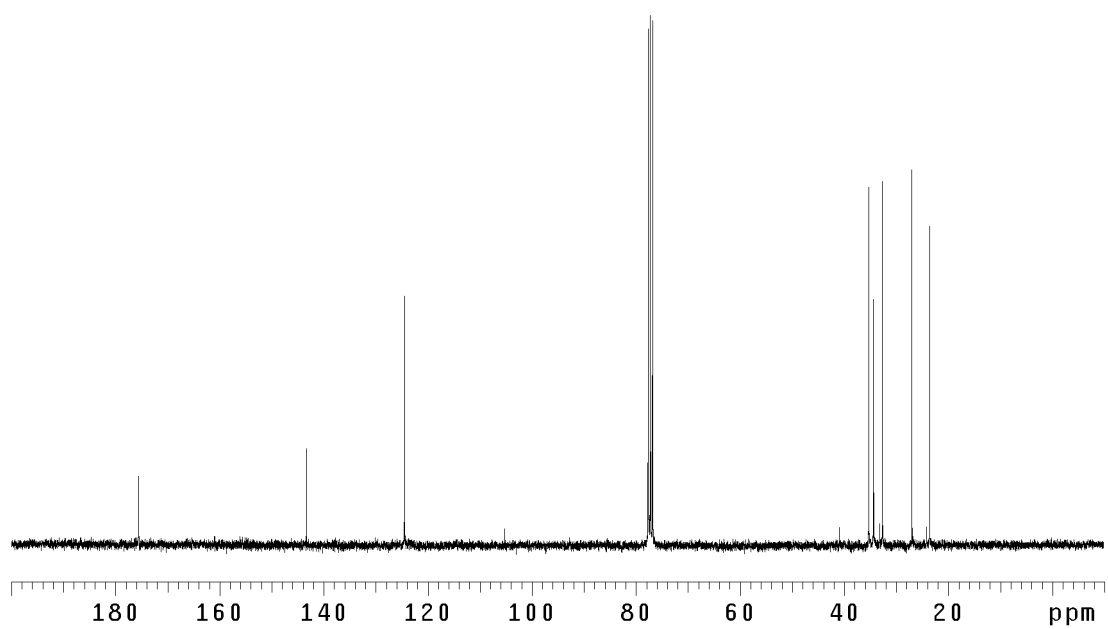


Figure A1.9 ¹³C NMR (75 MHz, CDCl₃) of compound **207**.

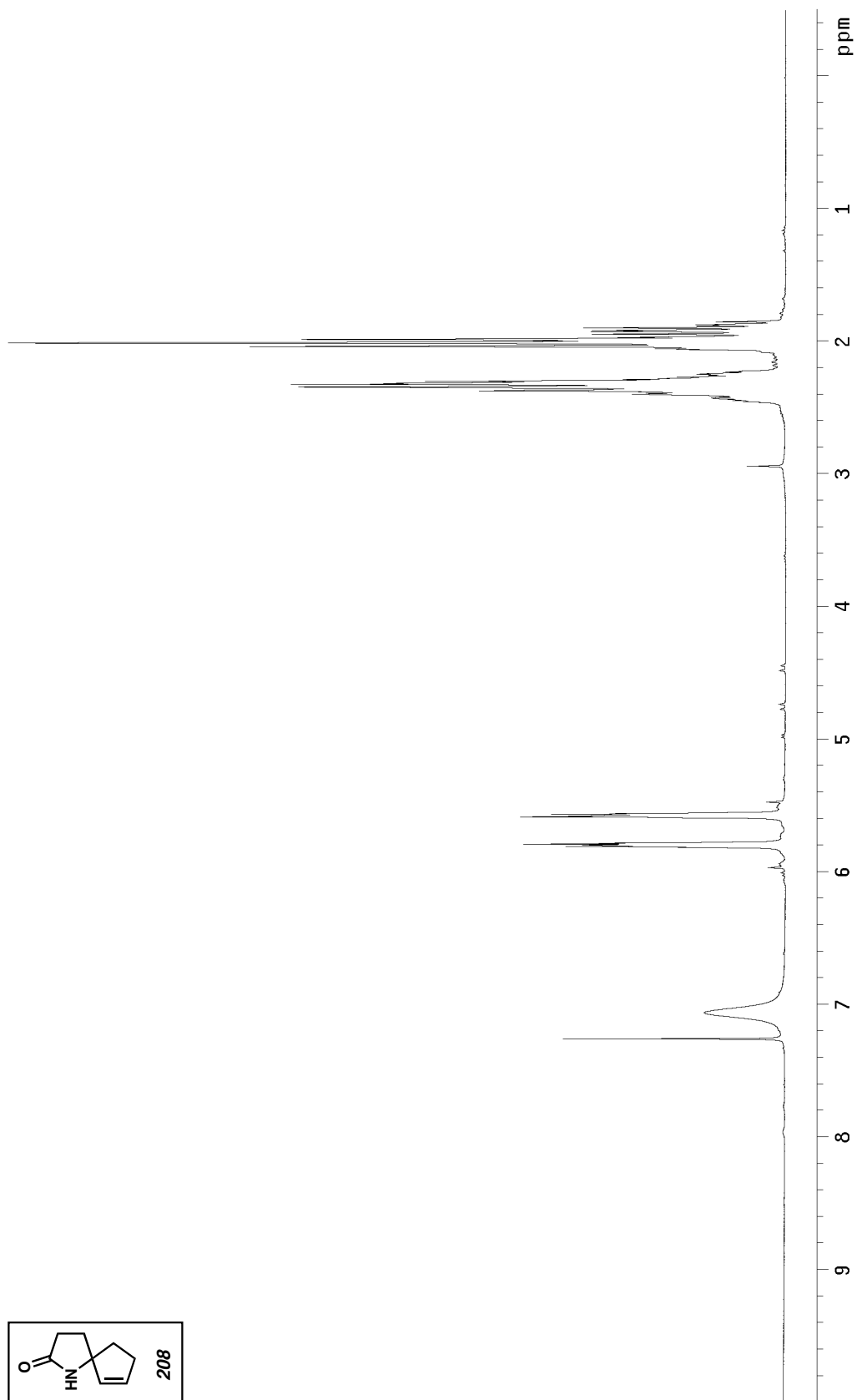
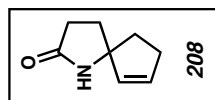


Figure A1.10 ^1H NMR (300 MHz, CDCl_3) of compound 208.

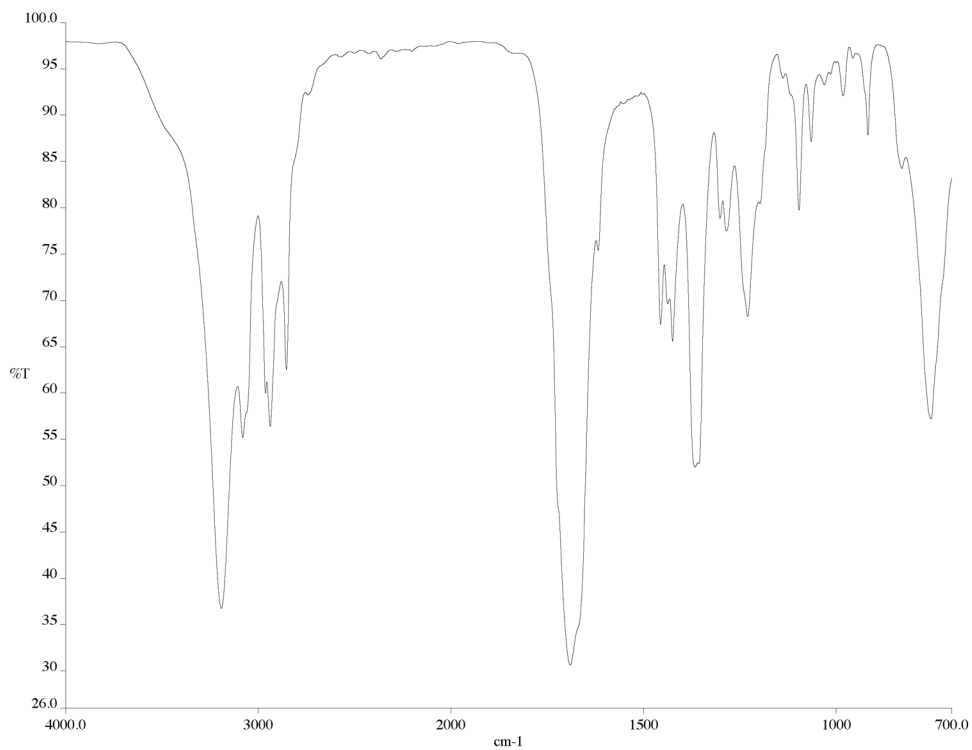


Figure A1.11 Infrared spectrum (thin film/NaCl) of compound **208**.

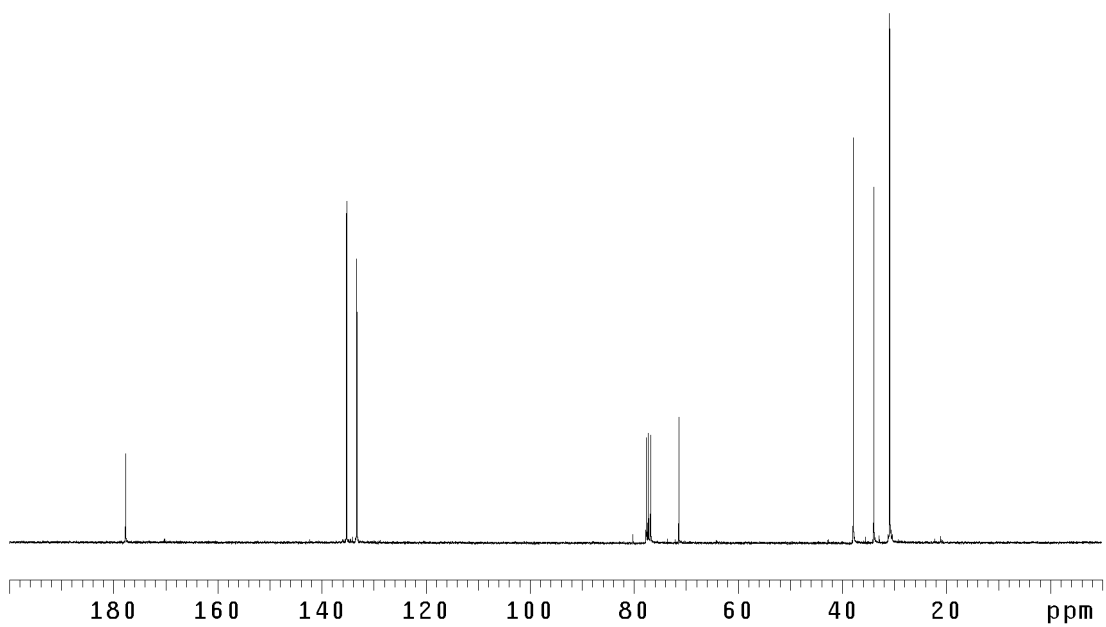


Figure A1.12 ¹³C NMR (75 MHz, CDCl₃) of compound **208**.