

## **APPENDIX ONE**

### **Spectra Relevant to Chapter Two:**

**The Resolution of Important Pharmaceutical Building Blocks by Palladium-Catalyzed Aerobic Oxidation of Secondary Alcohols**

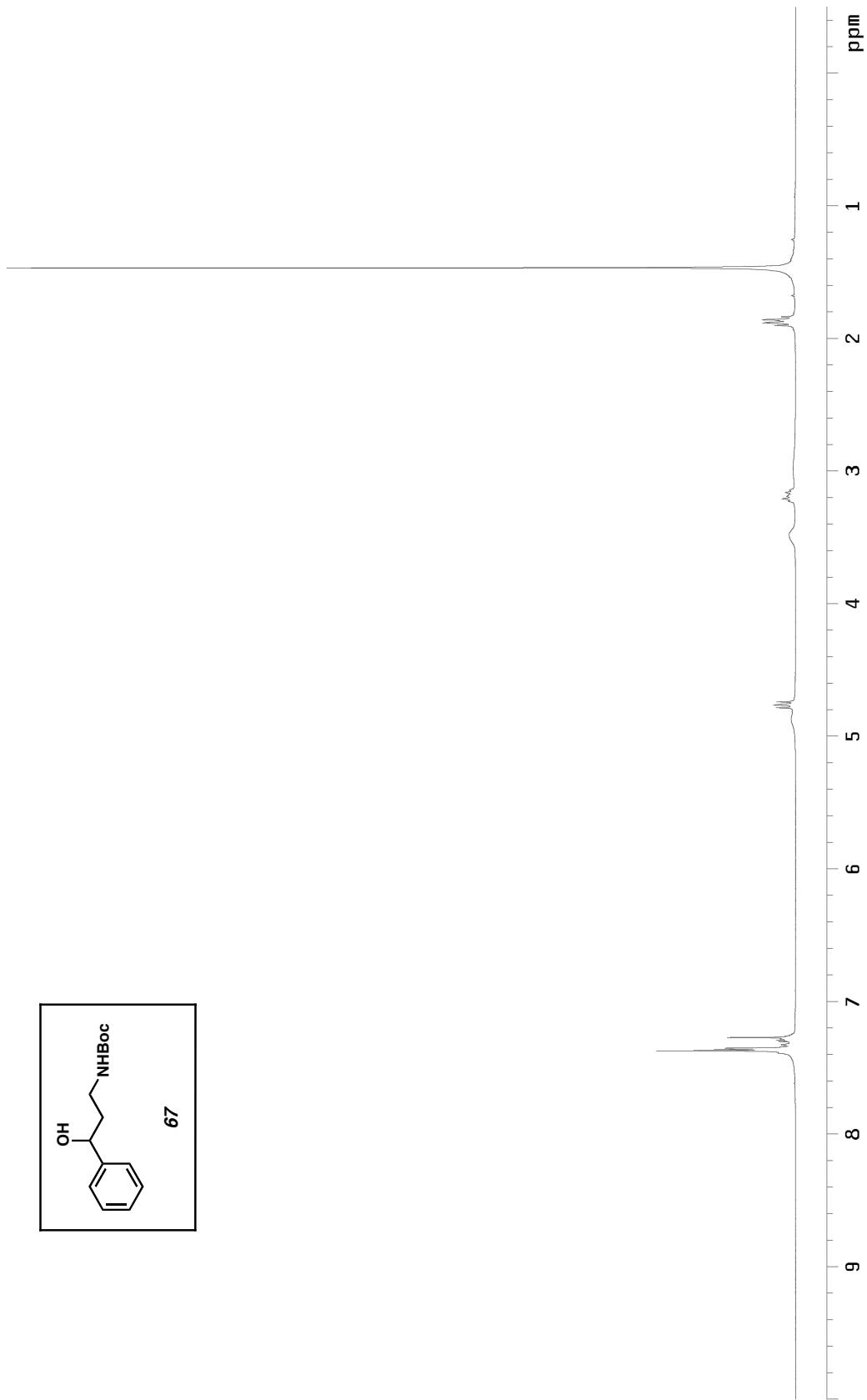
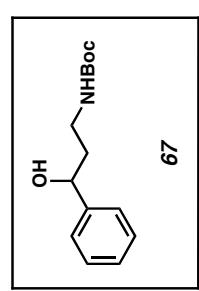


Figure A1.1 <sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>) of compound 67

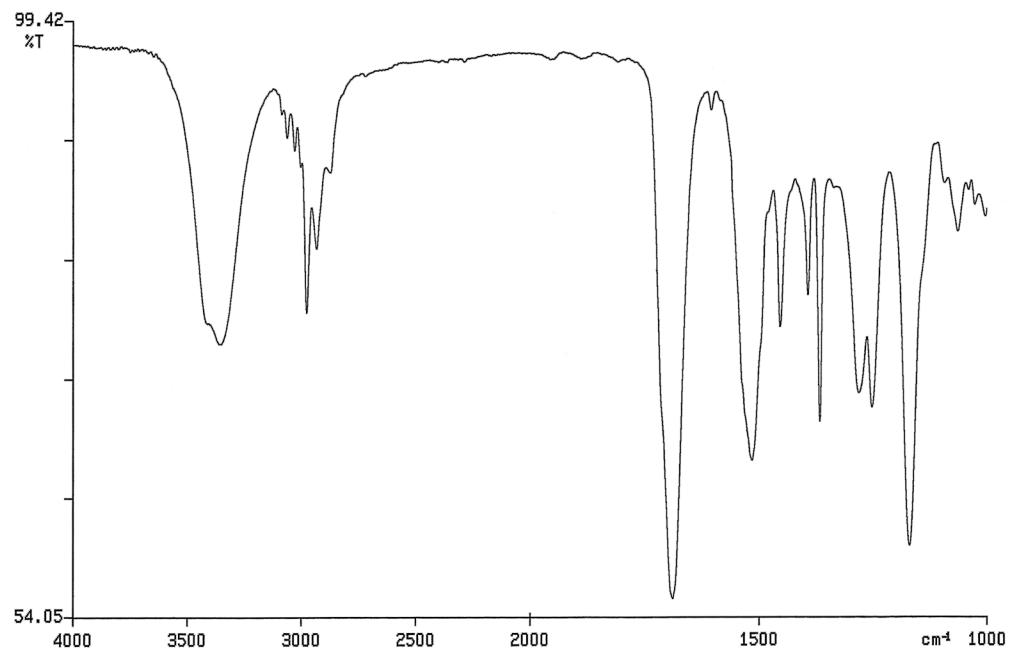


Figure A1.2 Infrared spectrum (thin film/NaCl) of compound **67**

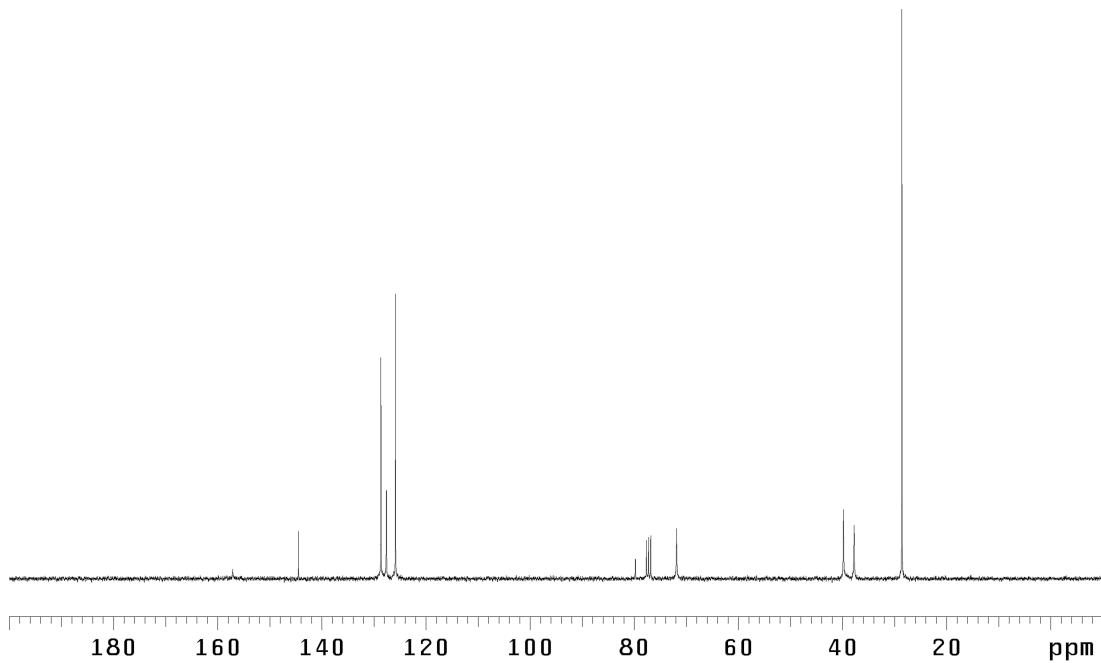


Figure A1.3  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **67**

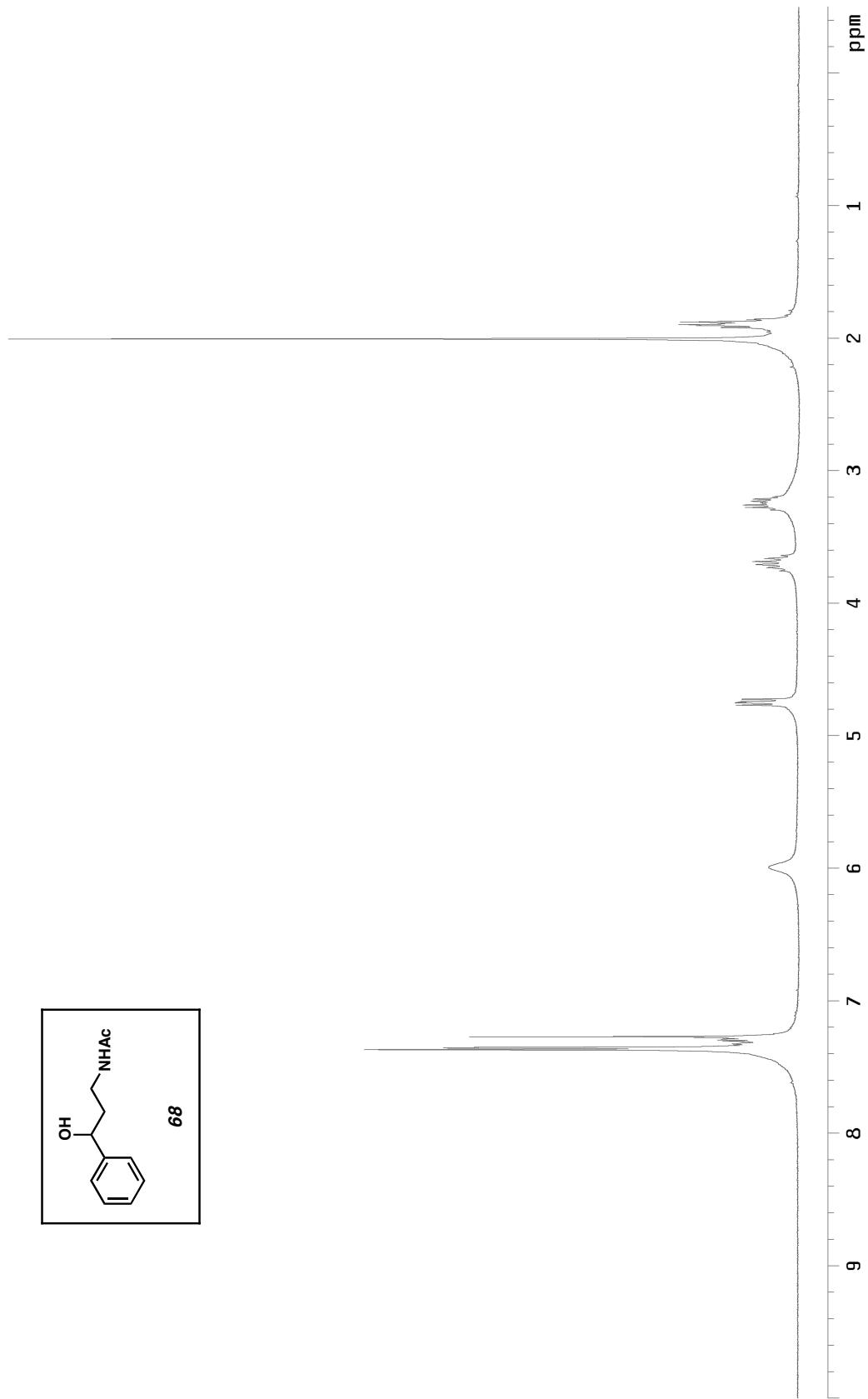


Figure A1.4  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound **68**



Figure A1.5 Infrared spectrum (thin film/NaCl) of compound **68**

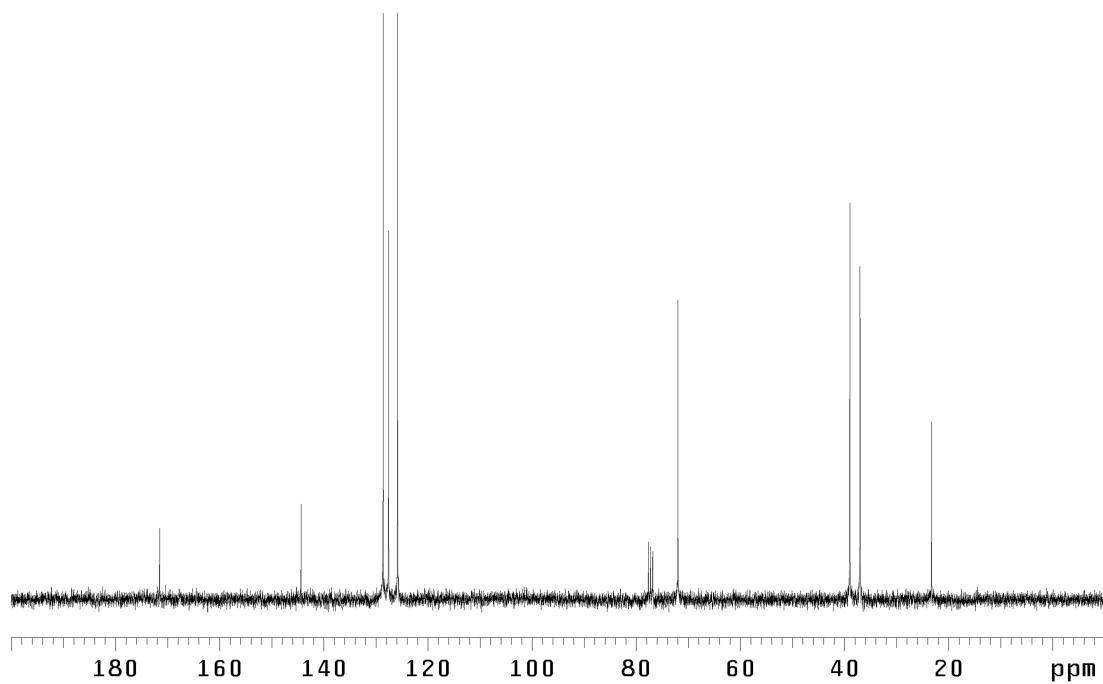


Figure A1.6  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **68**

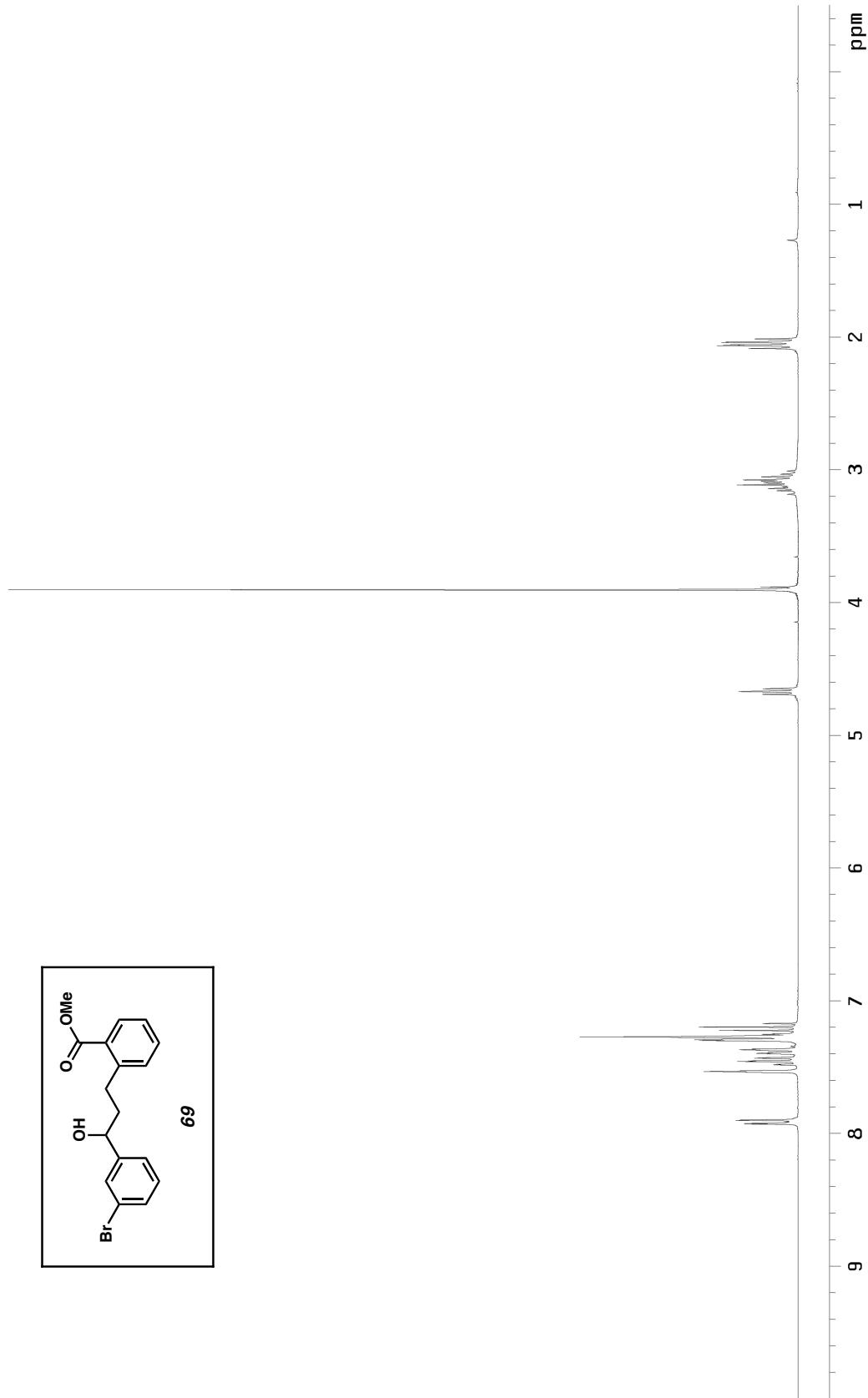
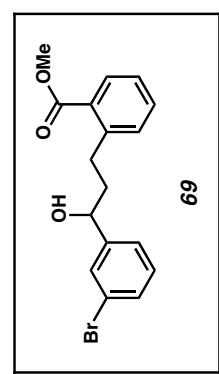


Figure A1.7 <sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>) of compound 69

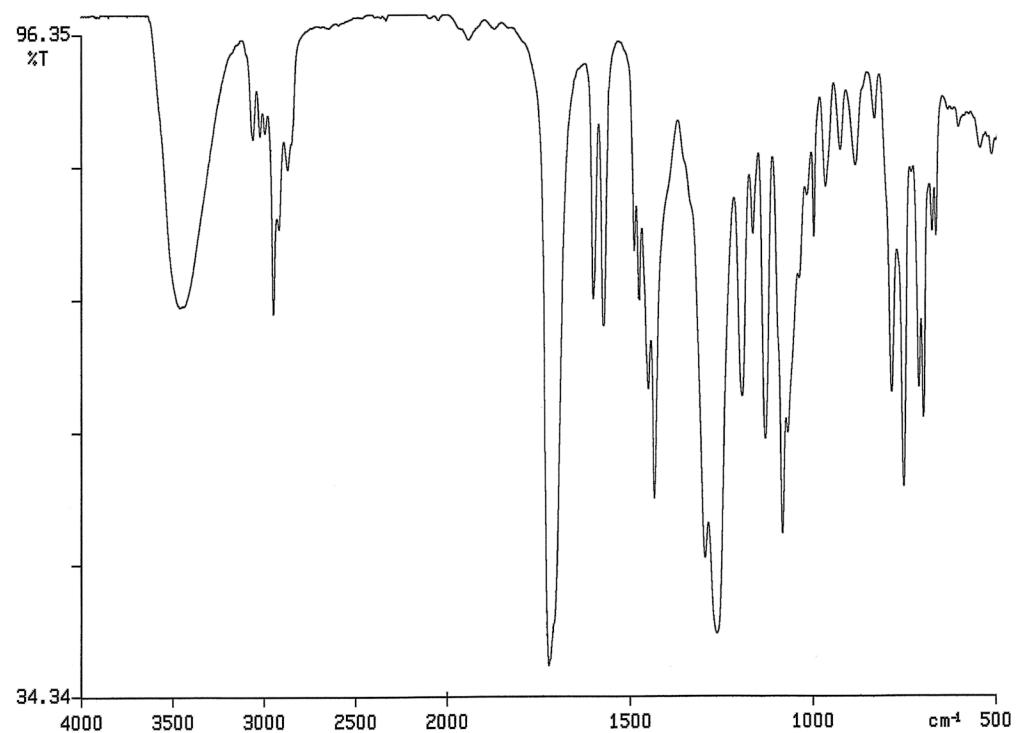


Figure A1.8 Infrared spectrum (thin film/NaCl) of compound **69**

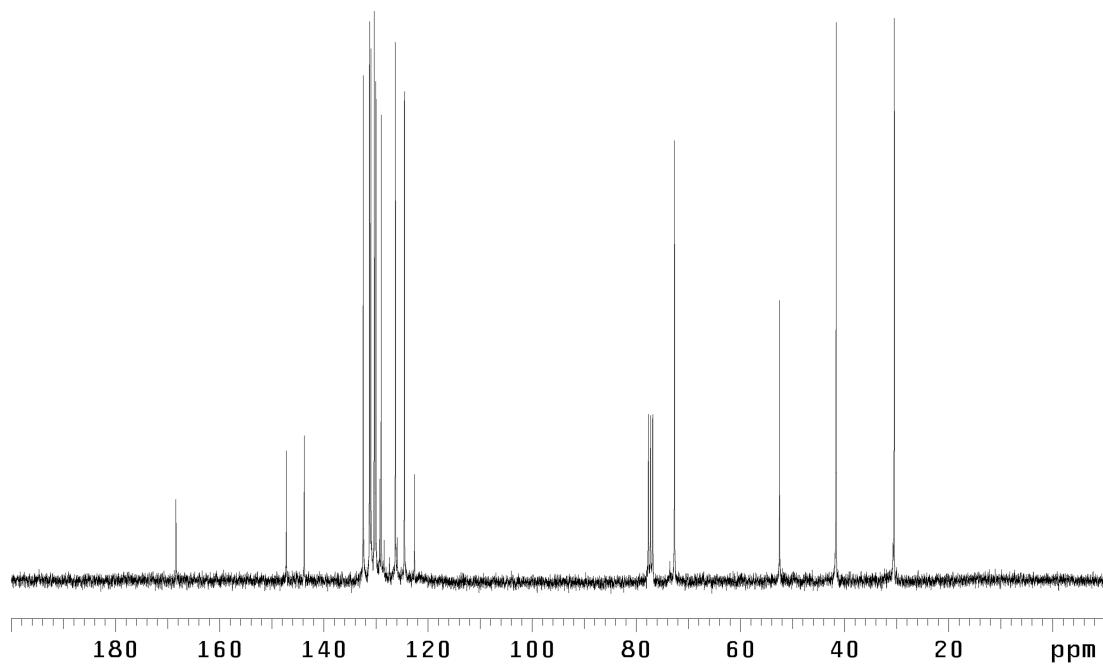


Figure A1.9  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **69**

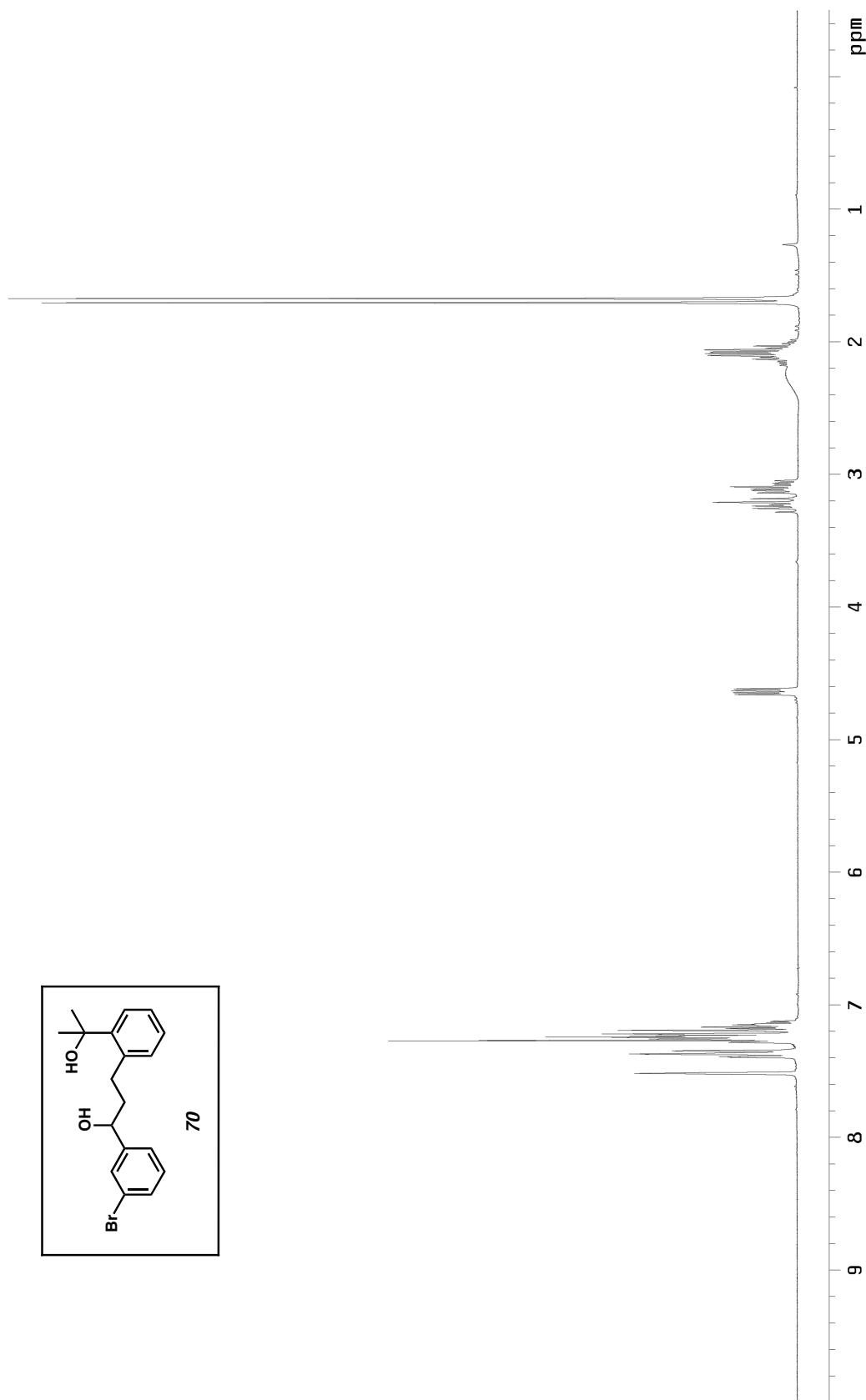
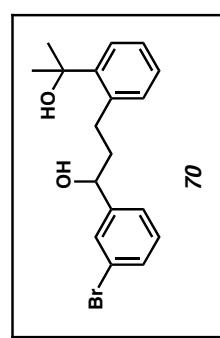


Figure A1.10  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound 70

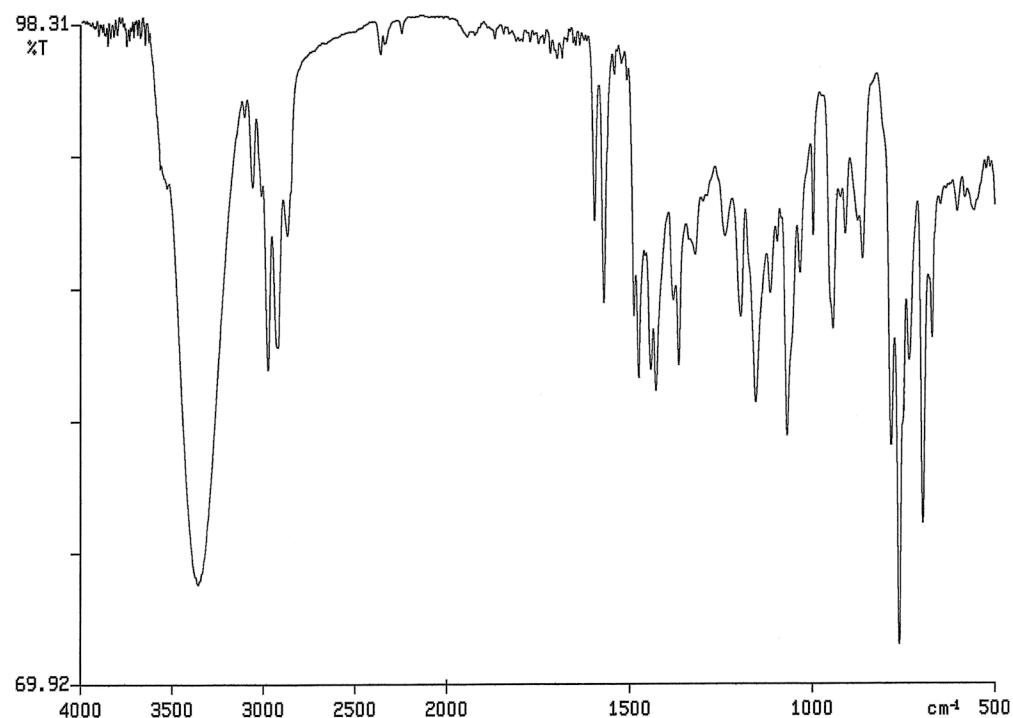


Figure A1.11 Infrared spectrum (thin film/NaCl) of compound **70**

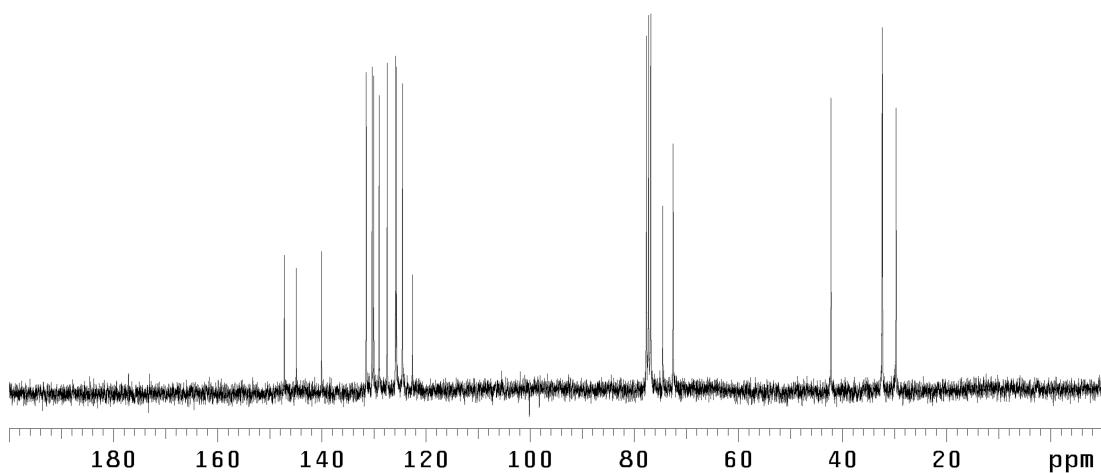


Figure A1.12 <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **70**

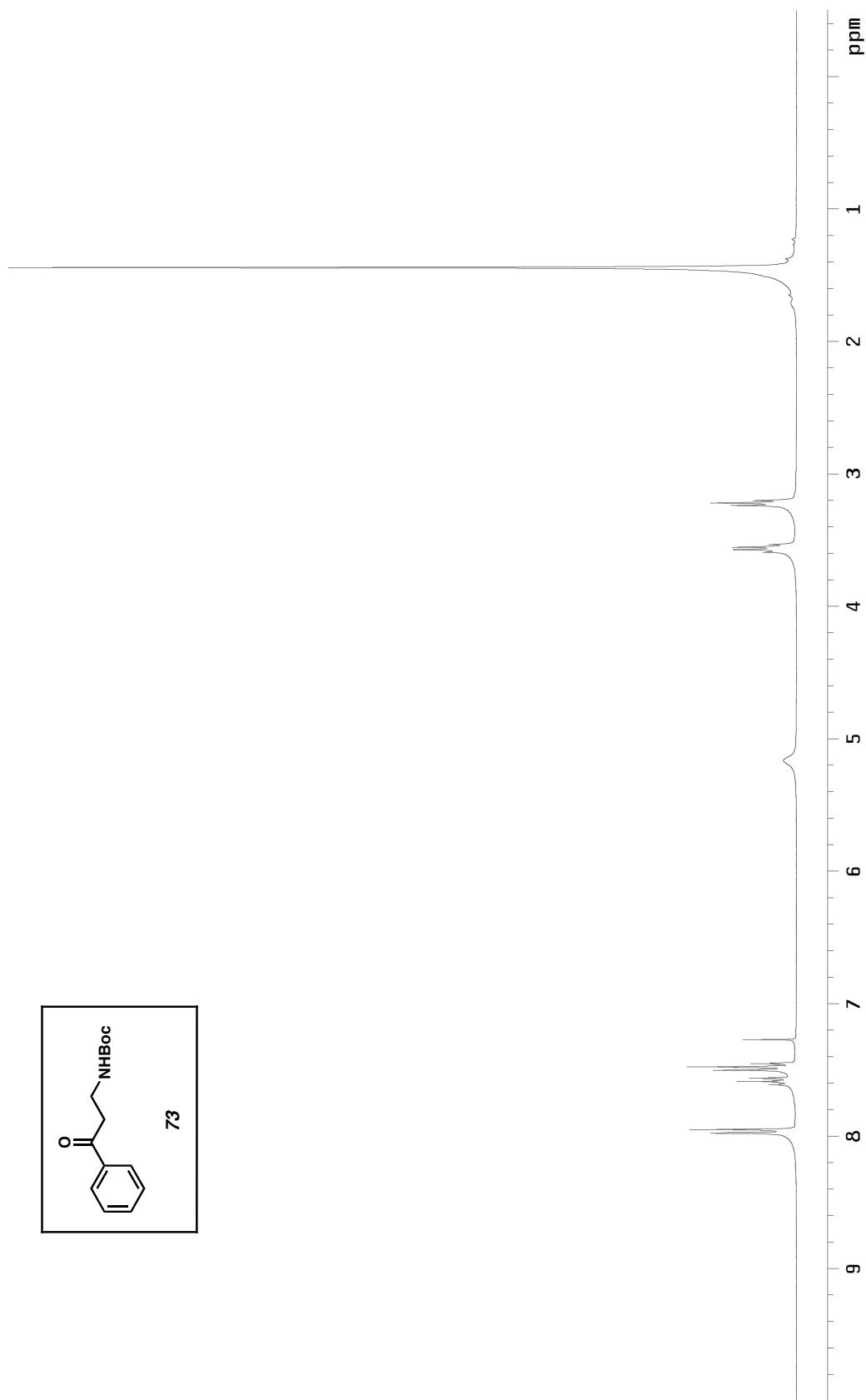


Figure A1.13  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound 73

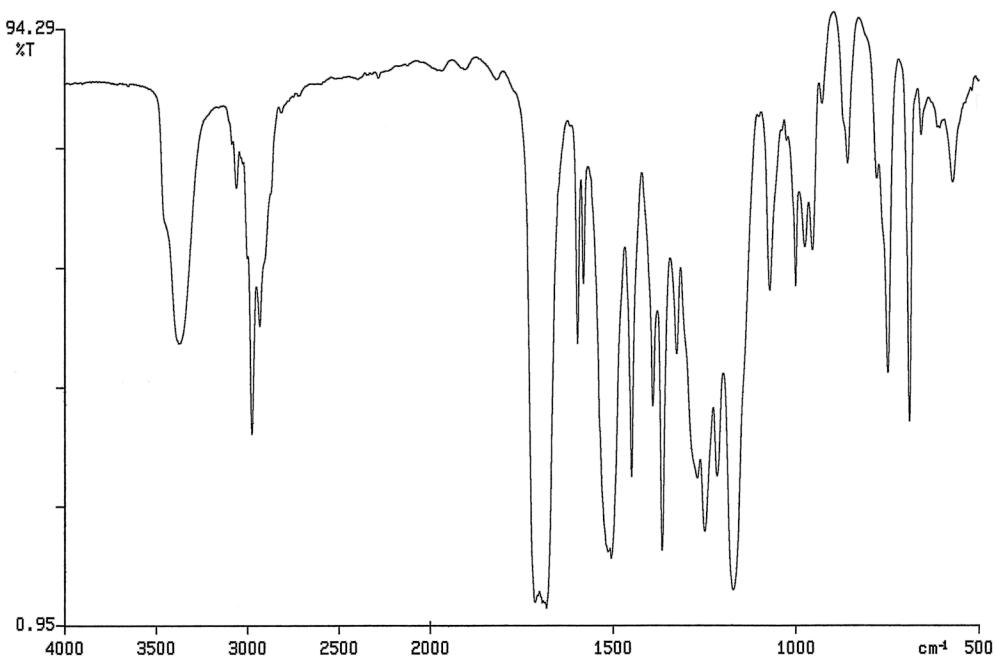


Figure A1.14 Infrared spectrum (thin film/NaCl) of compound **73**

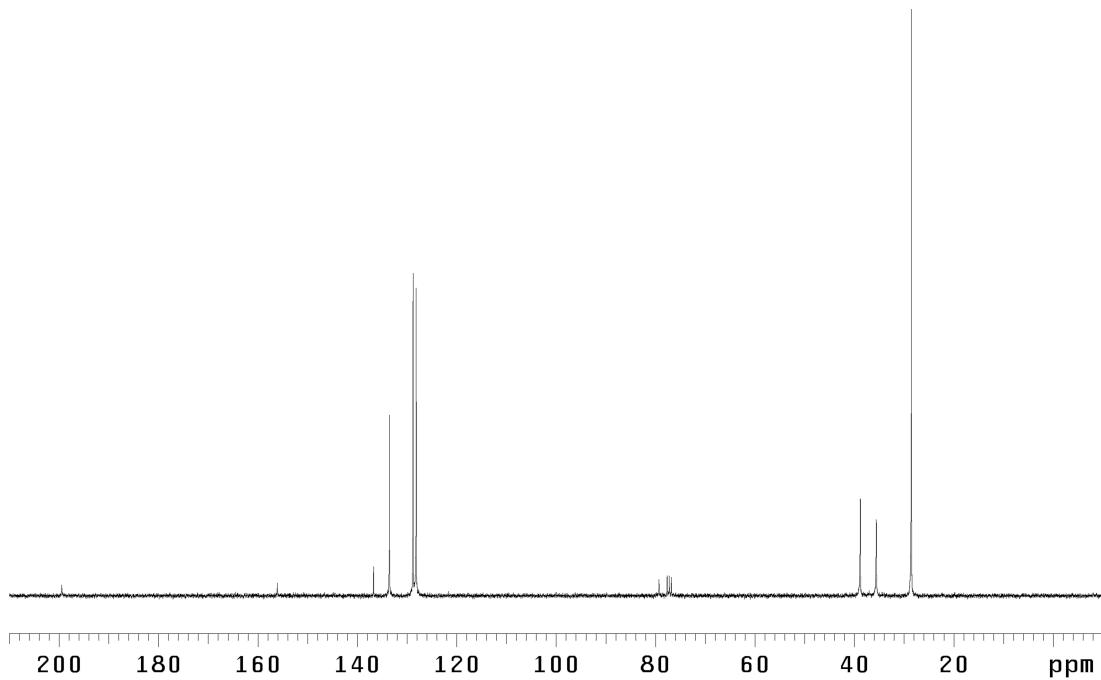


Figure A1.15 <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **73**

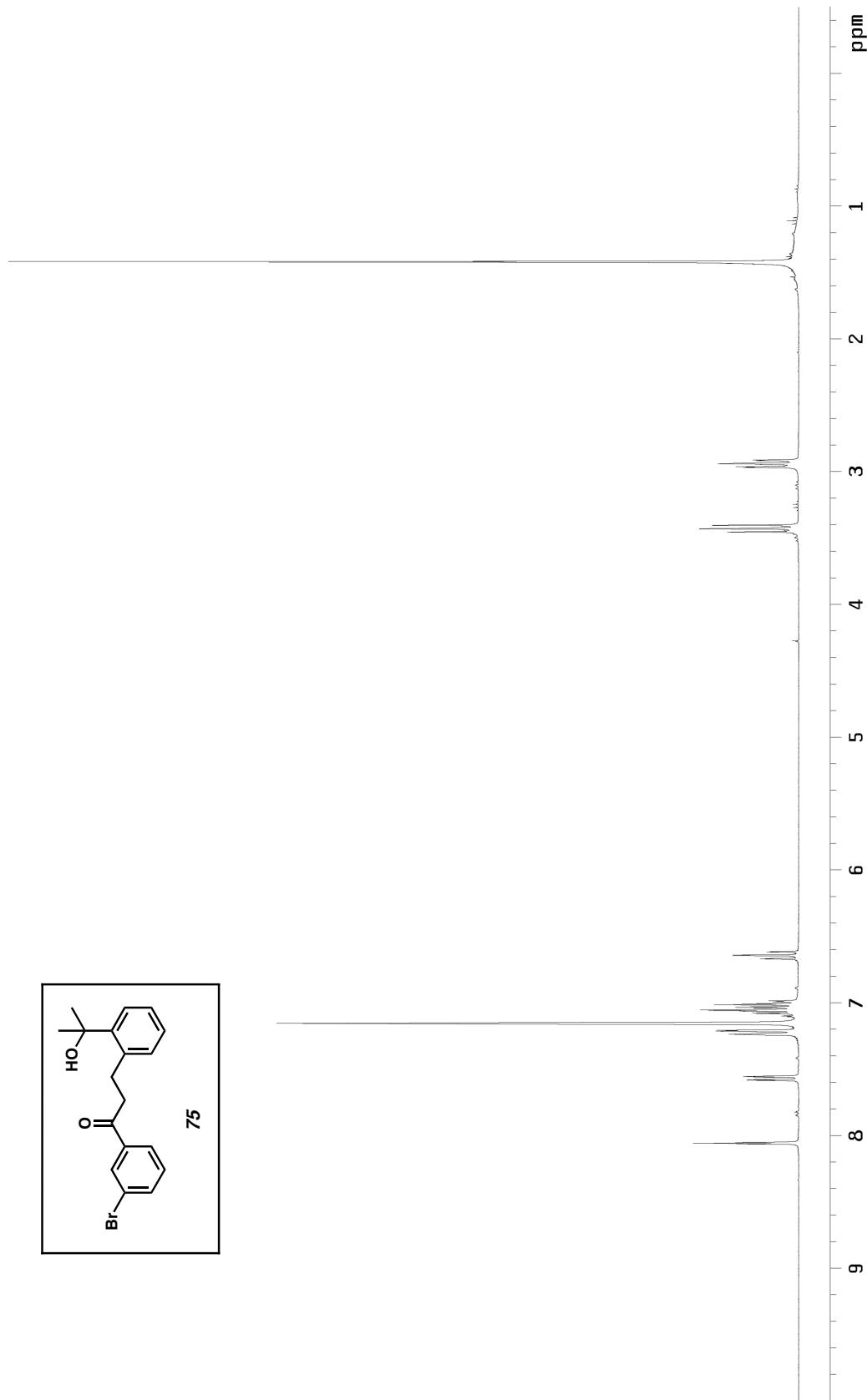
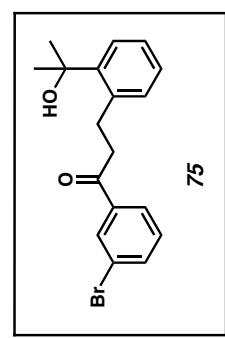


Figure A1.16 <sup>1</sup>H NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound 75

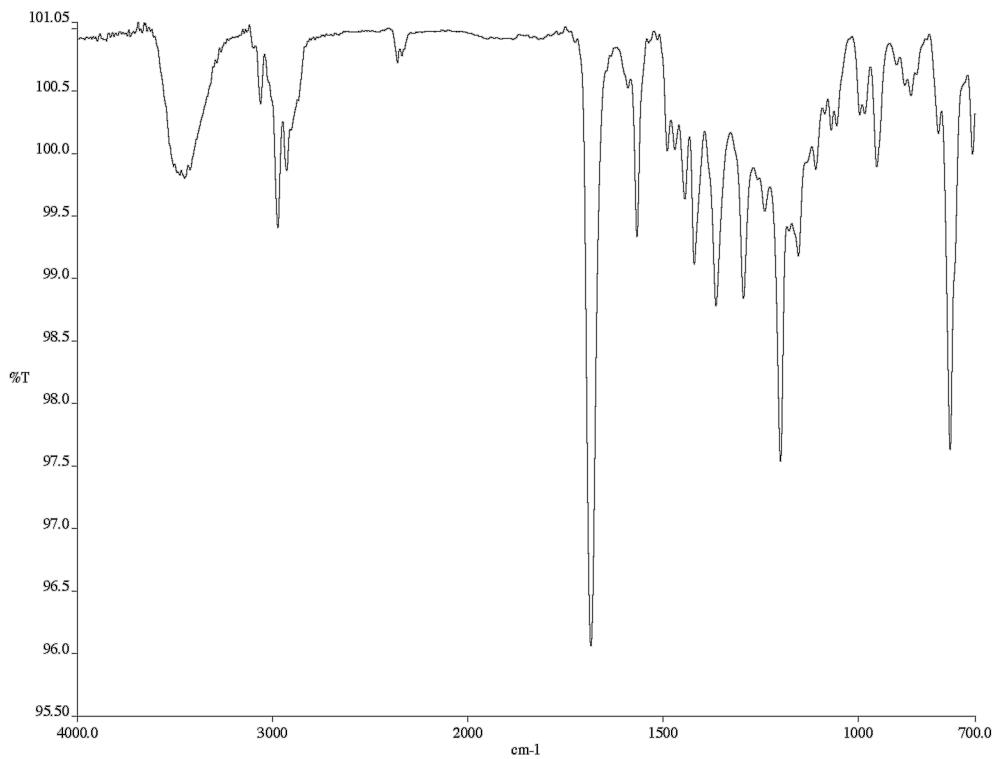


Figure A1.17 Infrared spectrum (thin film/NaCl) of compound **75**

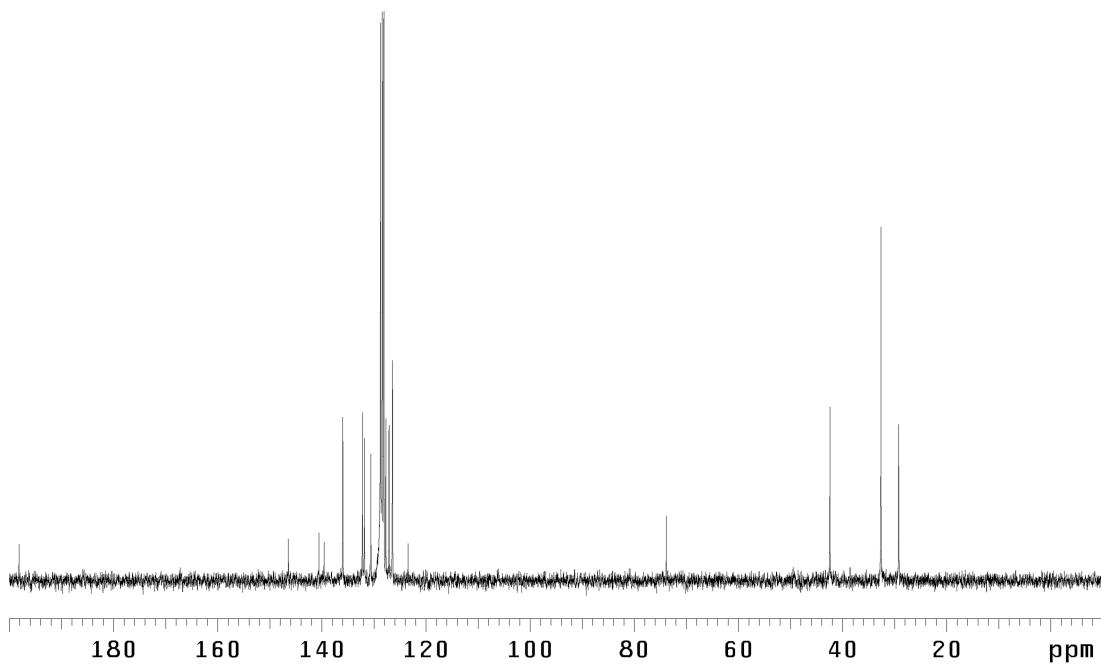


Figure A1.18  $^{13}\text{C}$  NMR (75 MHz,  $\text{C}_6\text{D}_6$ ) of compound **75**

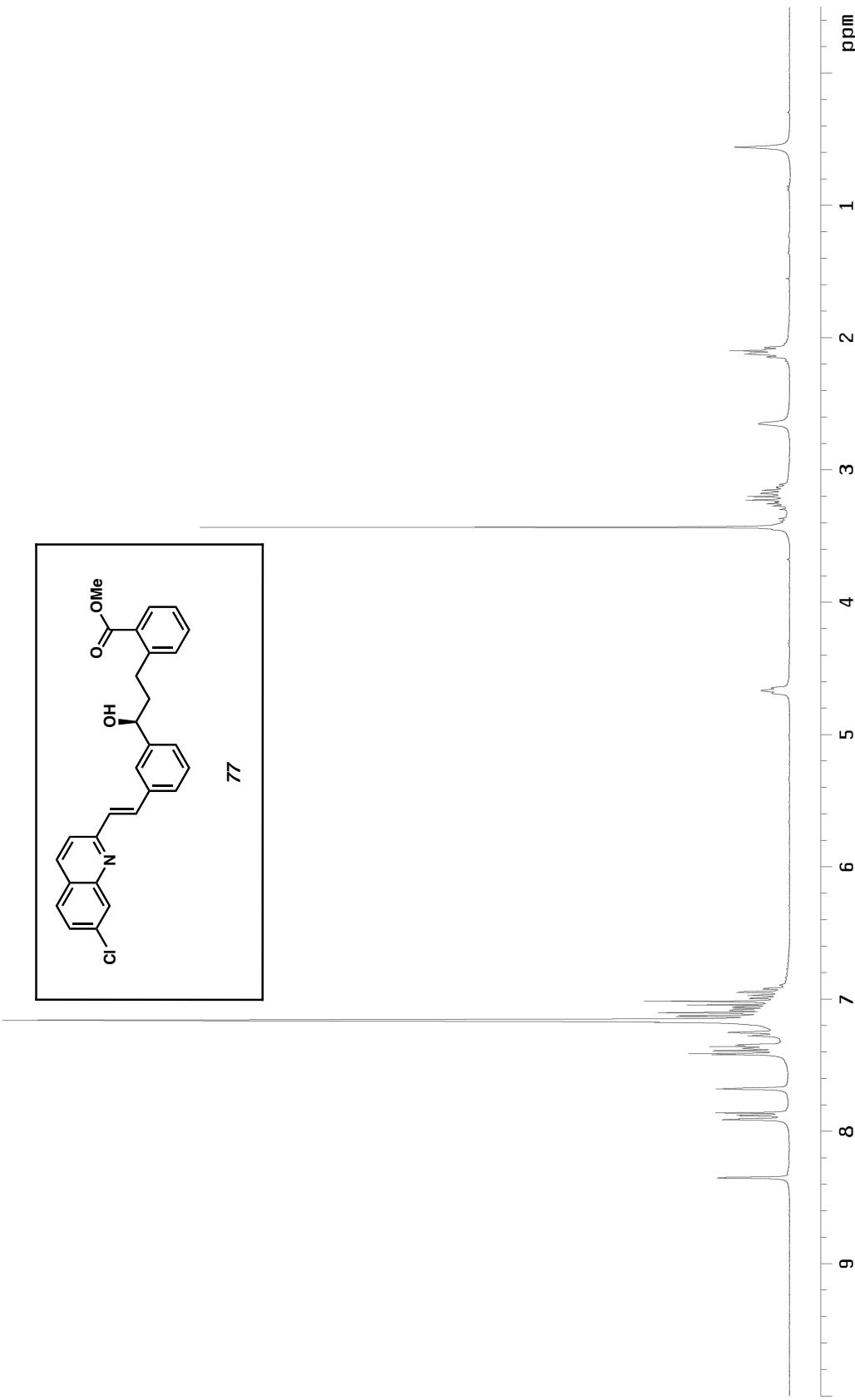


Figure A1.19  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound 77

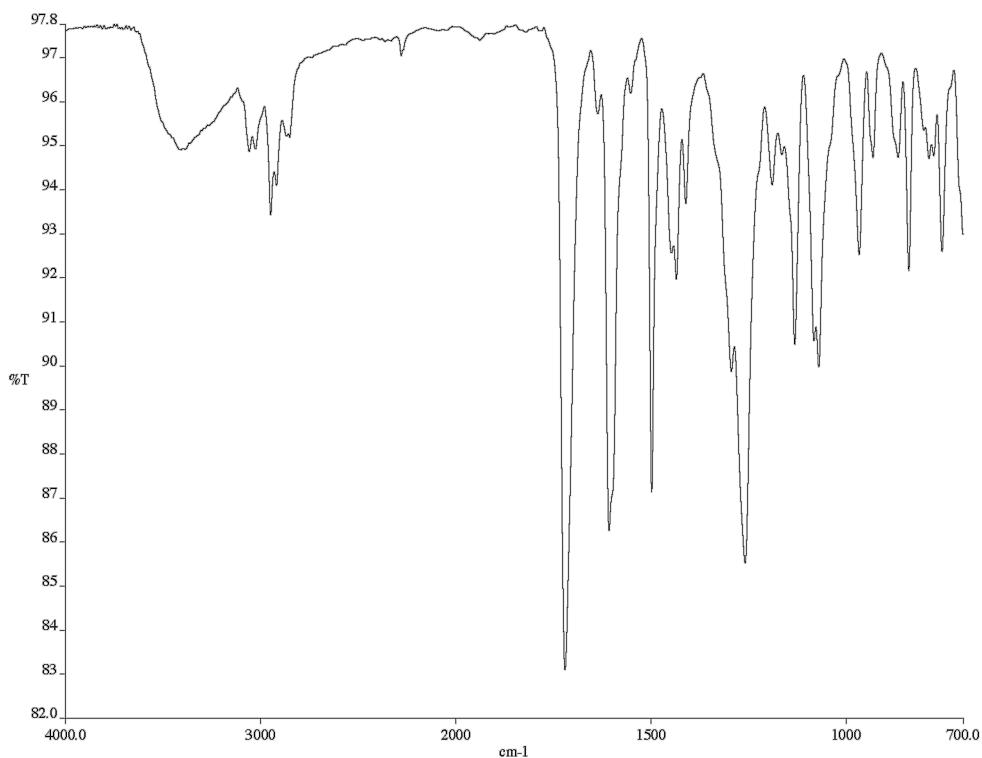


Figure A1.20 Infrared spectrum (thin film/NaCl) of compound 77

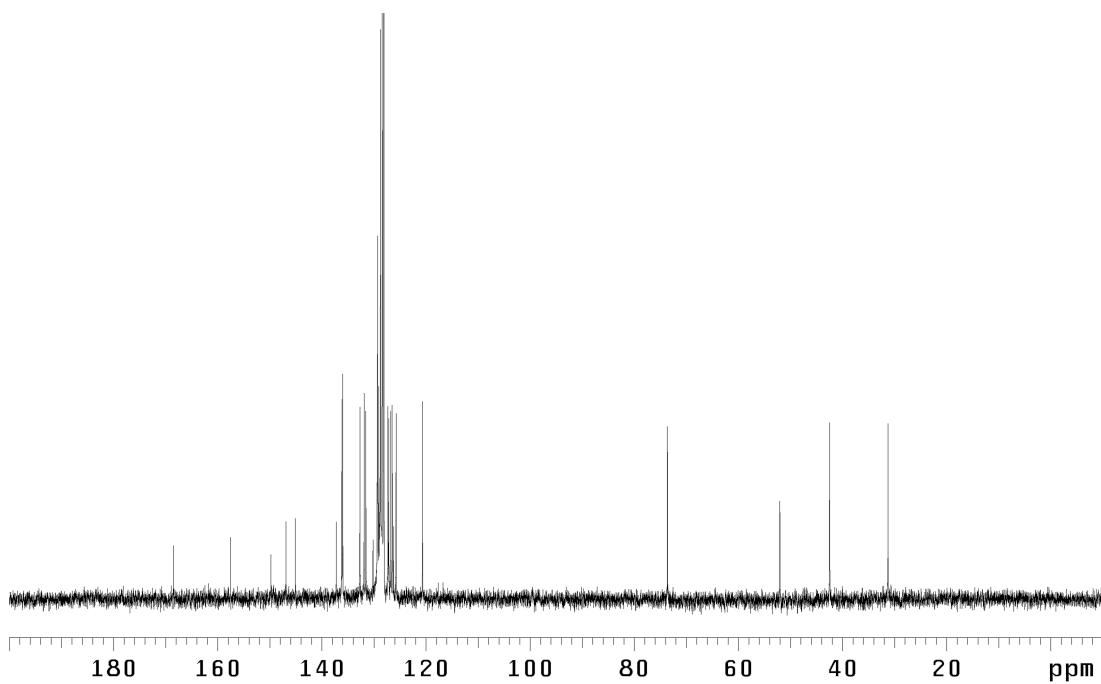


Figure A1.21 <sup>13</sup>C NMR (75 MHz, C<sub>6</sub>D<sub>6</sub>) of compound 77

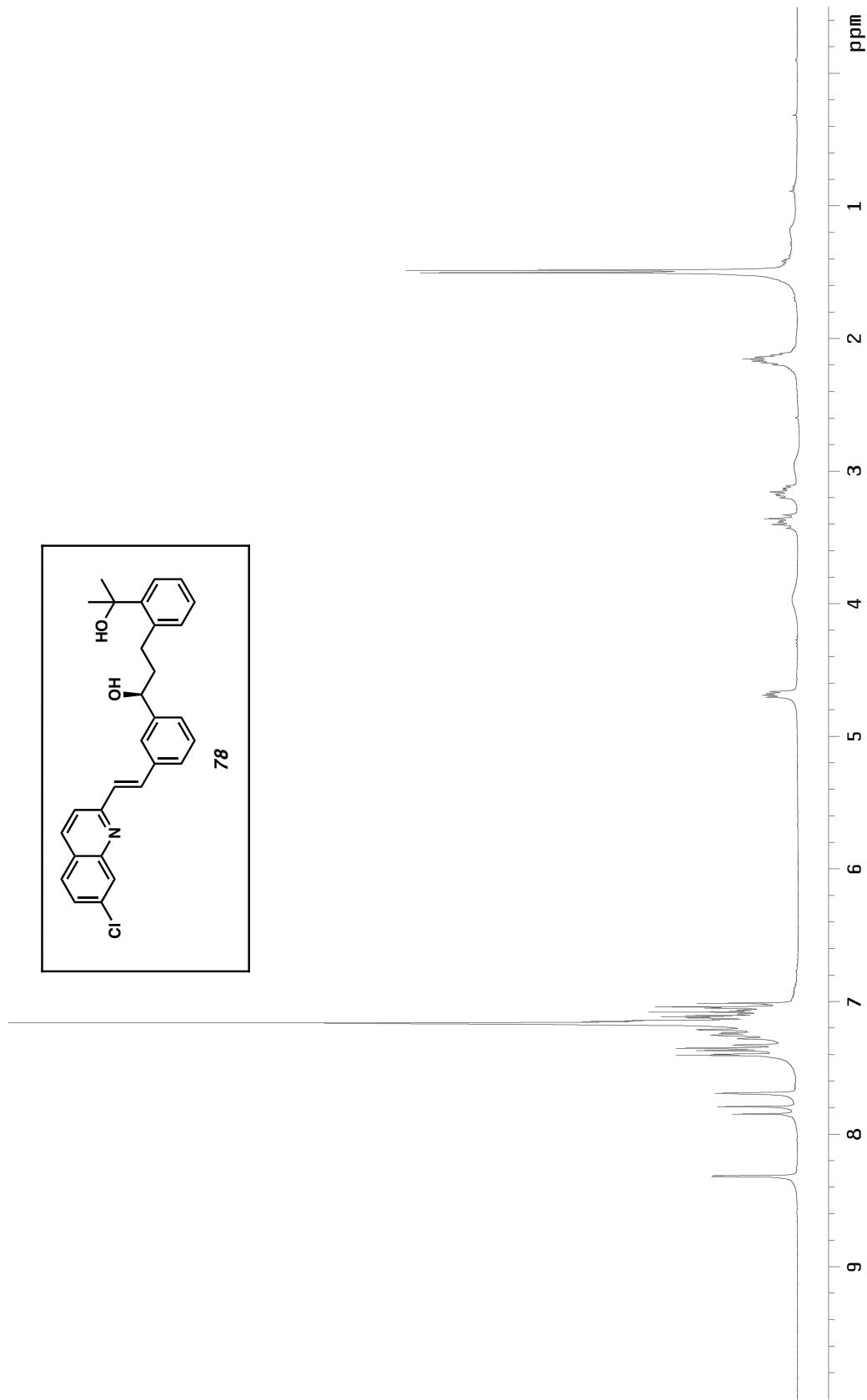


Figure A1.22  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound 78

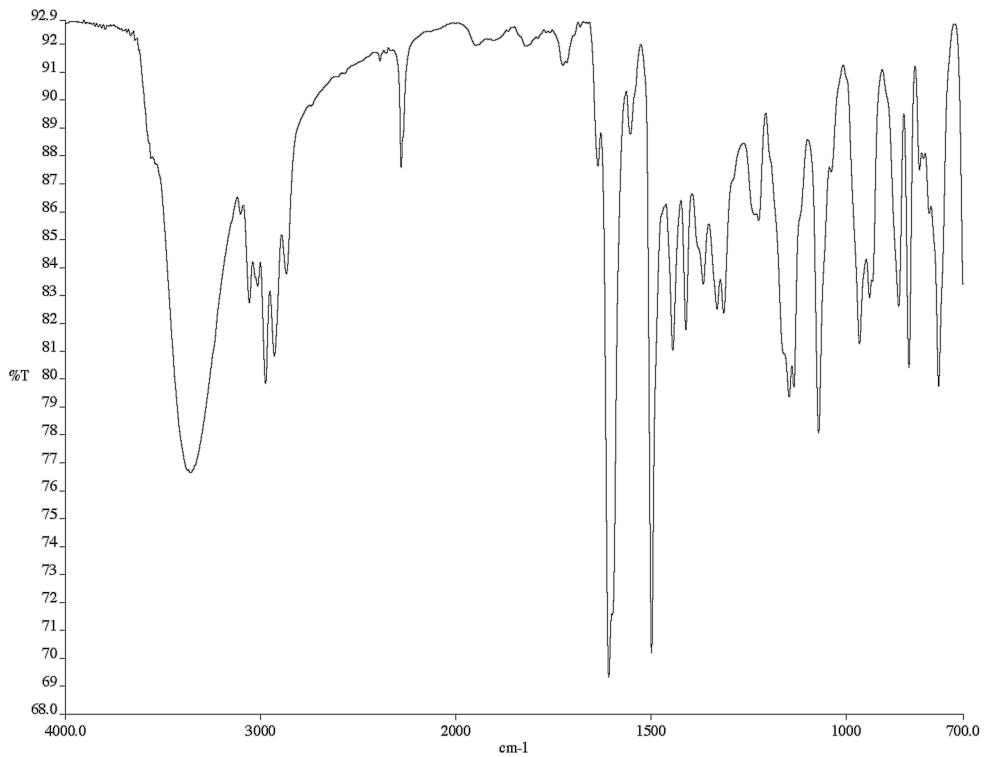


Figure A1.23 Infrared spectrum (thin film/NaCl) of compound **78**

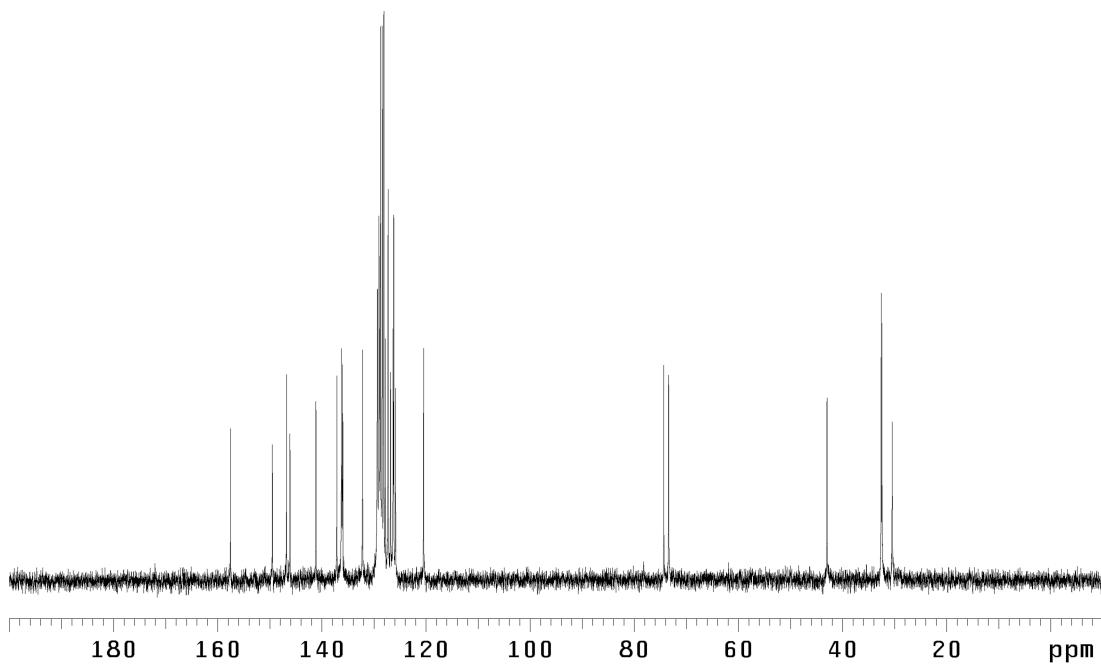


Figure A1.24  $^{13}\text{C}$  NMR (75 MHz,  $\text{C}_6\text{D}_6$ ) of compound **78**