

Expeditious Synthesis of 1-Aminoindane Derivatives by [1,4]-Hydride Shift Mediated C(sp³)–H Bond Functionalization

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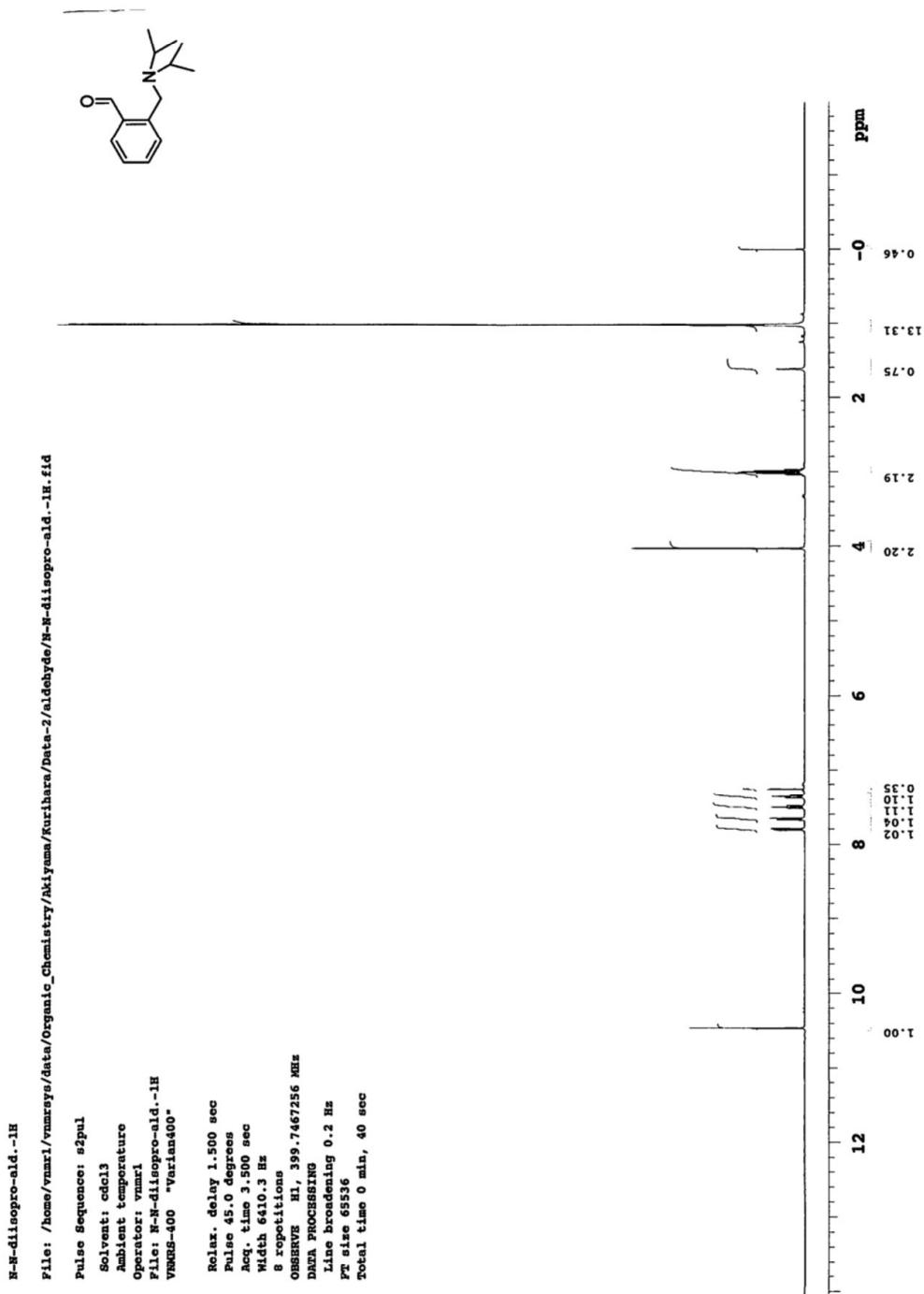
takahiko.akiyama@gakushuin.ac.jp

Supporting Information

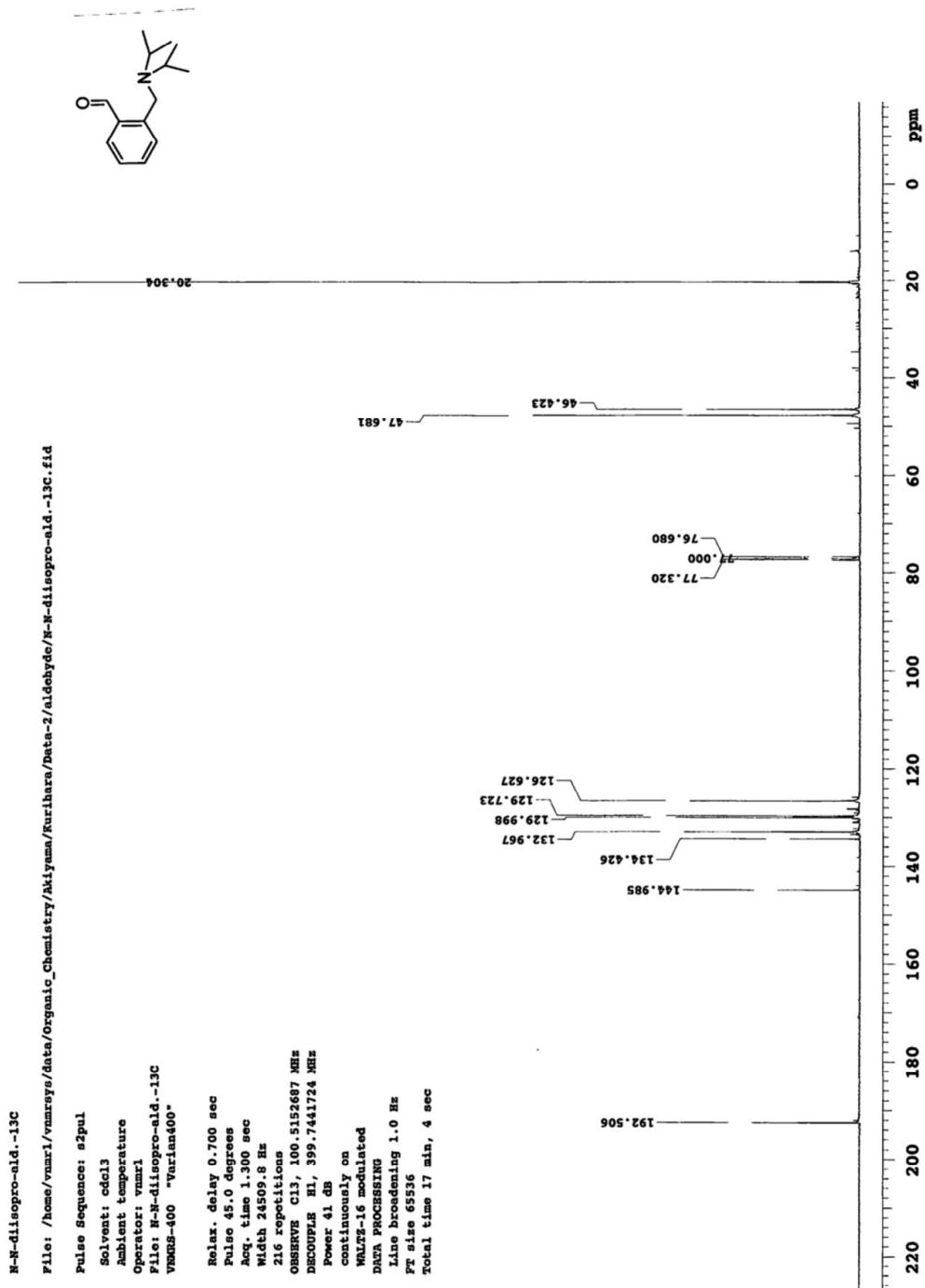
Scanned images of ¹H-, ¹³C-NMR of new compounds

S1

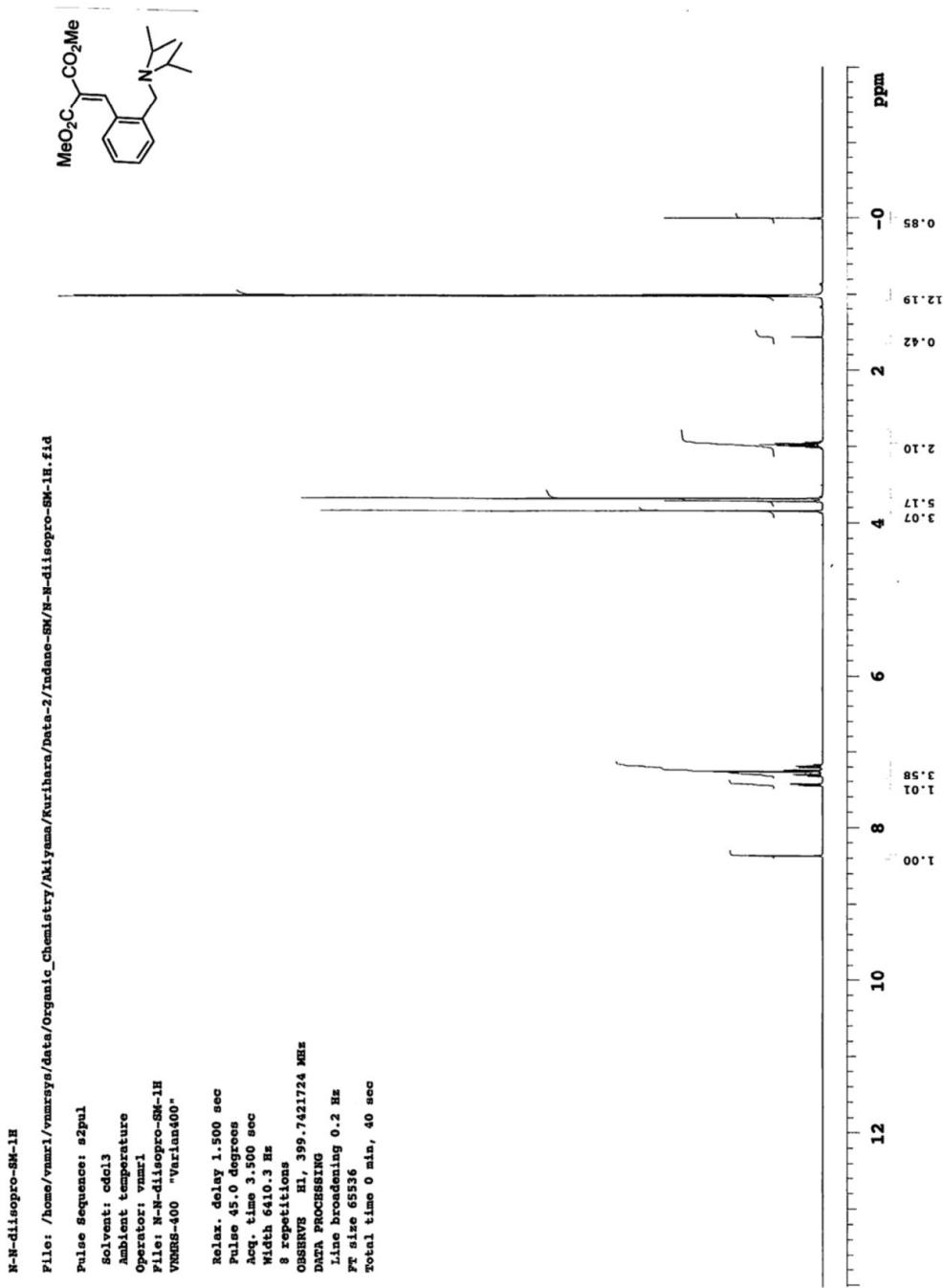
¹H NMR spectrum of s3.



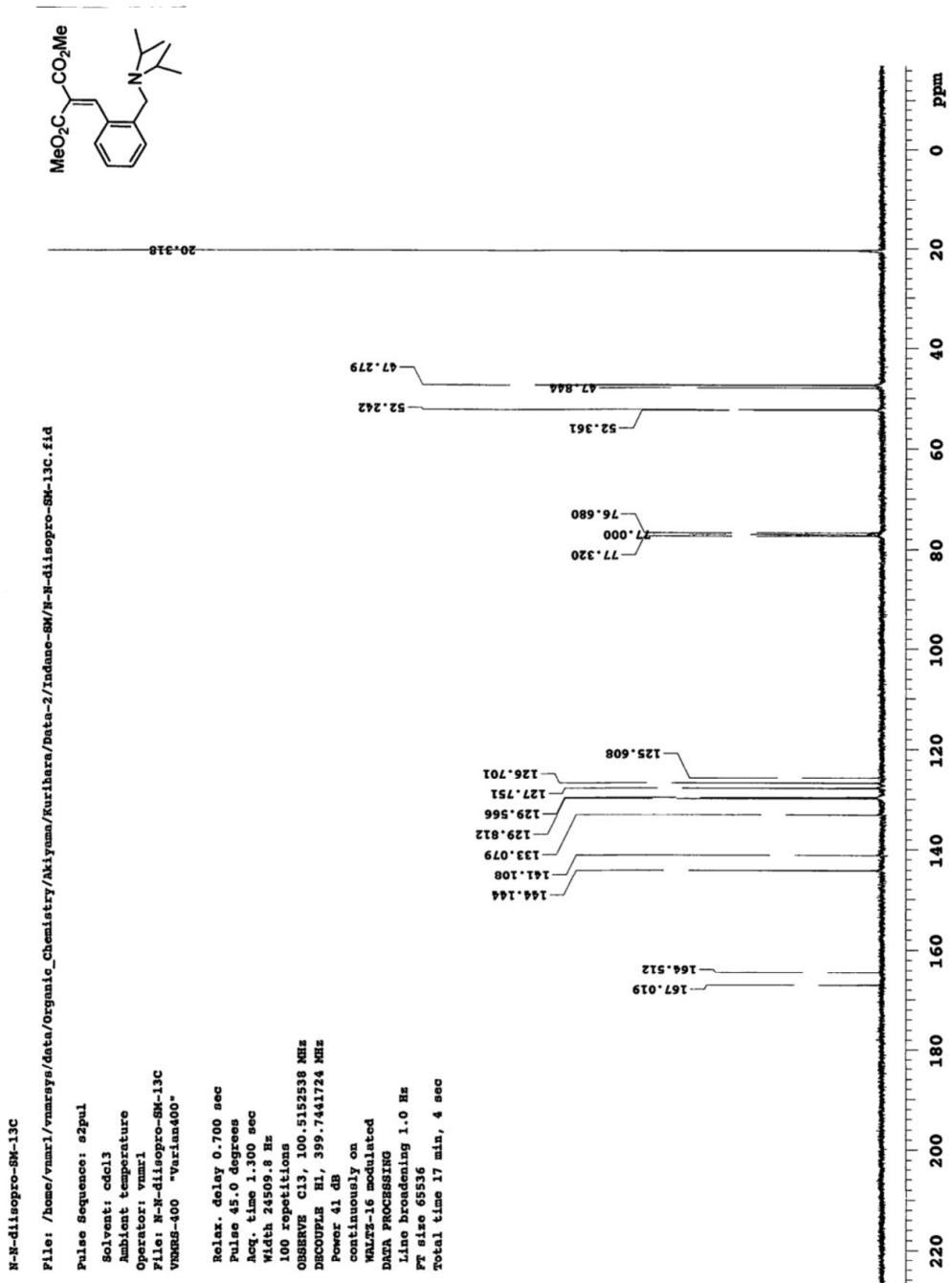
^{13}C NMR spectrum of s3.



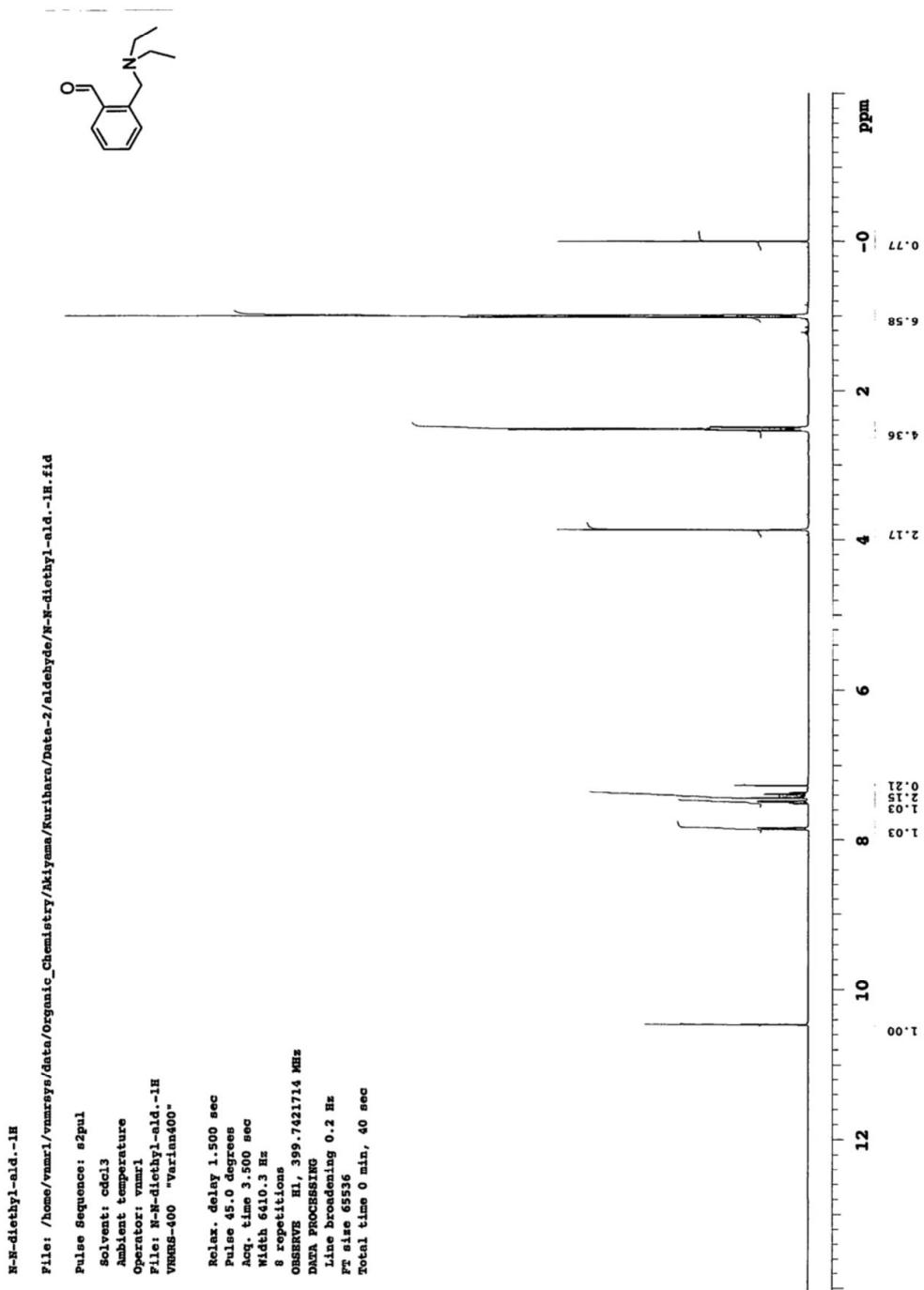
¹H NMR spectrum of **3a**.



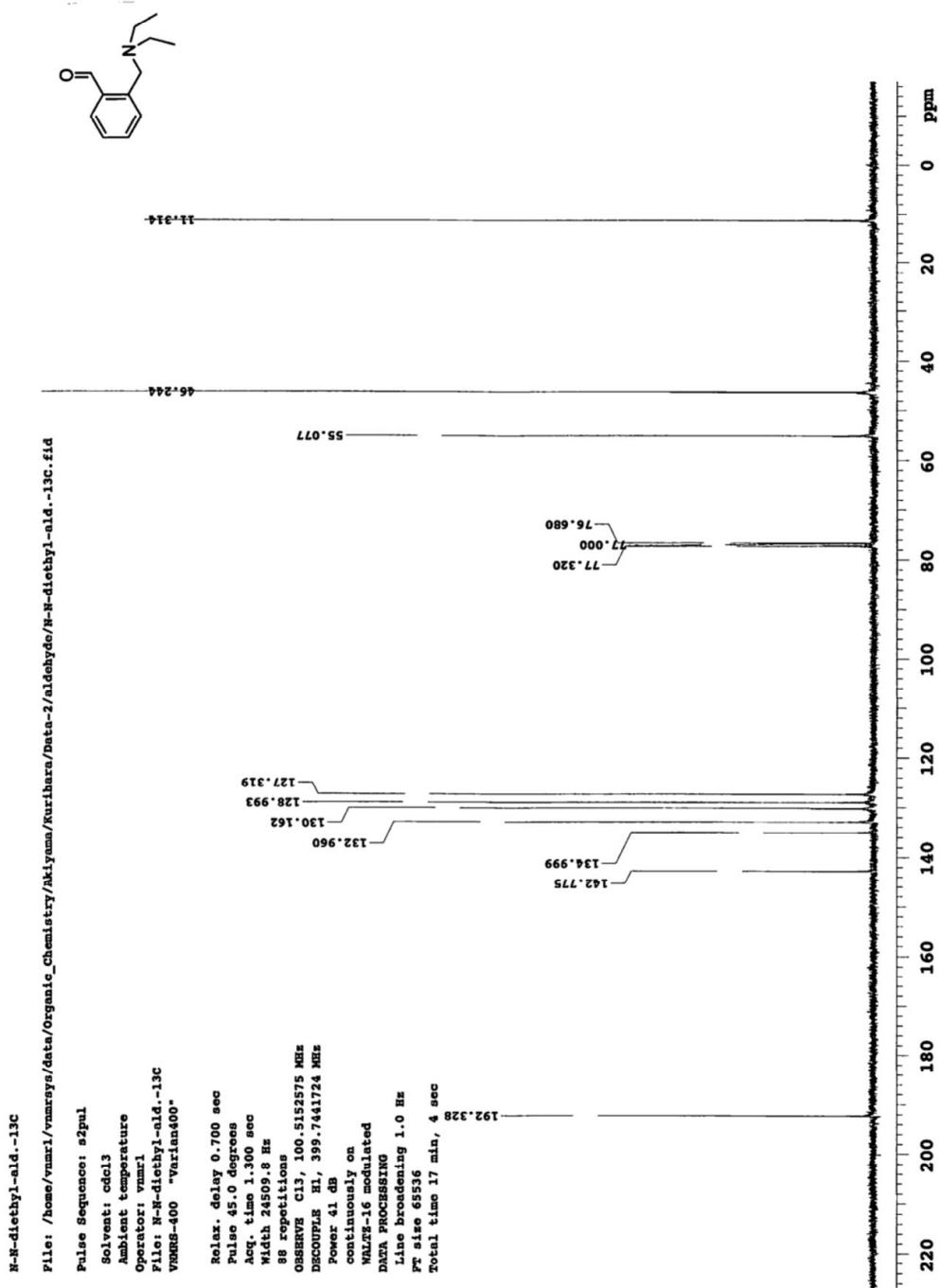
^{13}C NMR spectrum of **3a**.



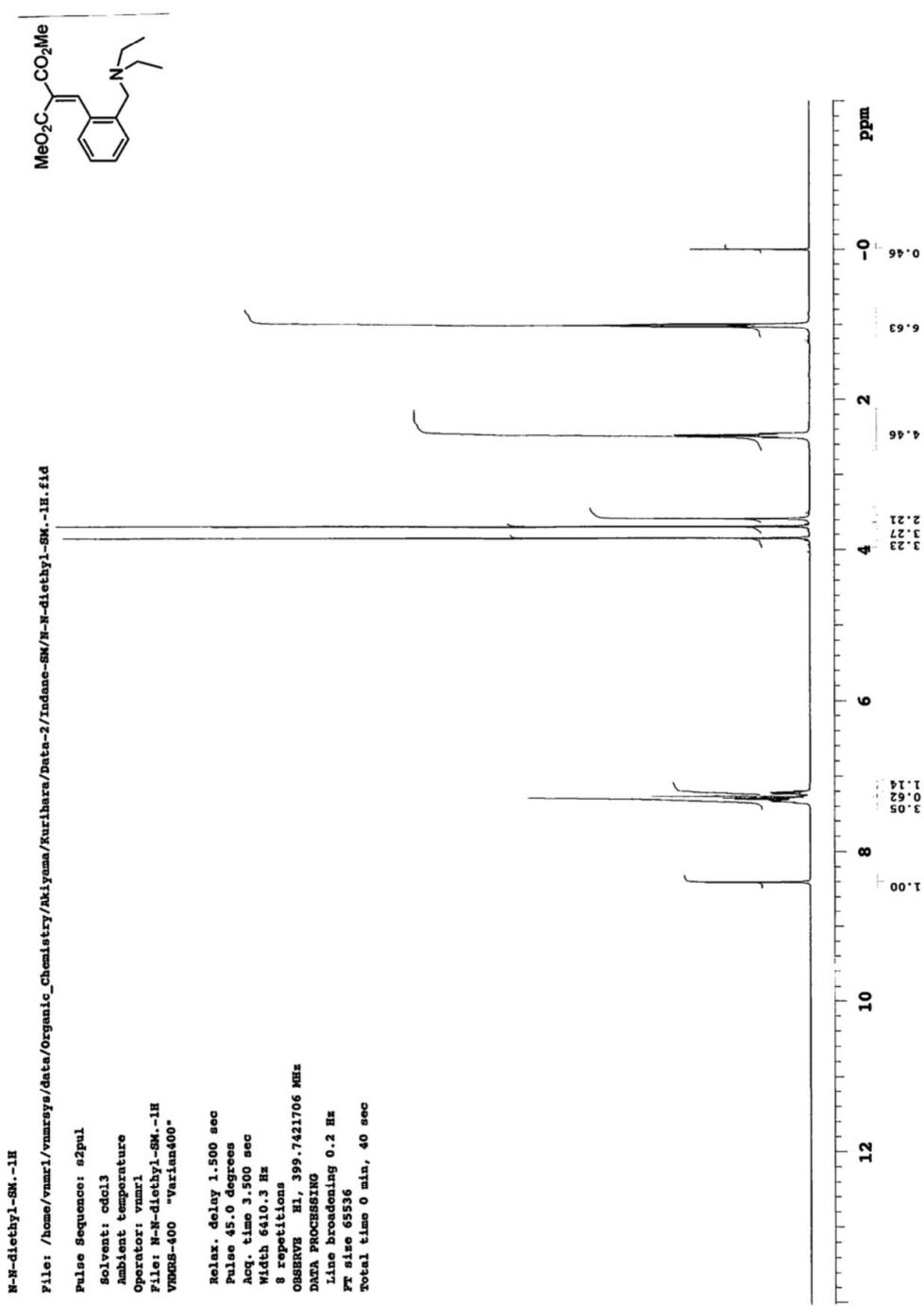
¹H NMR spectrum of **5**.



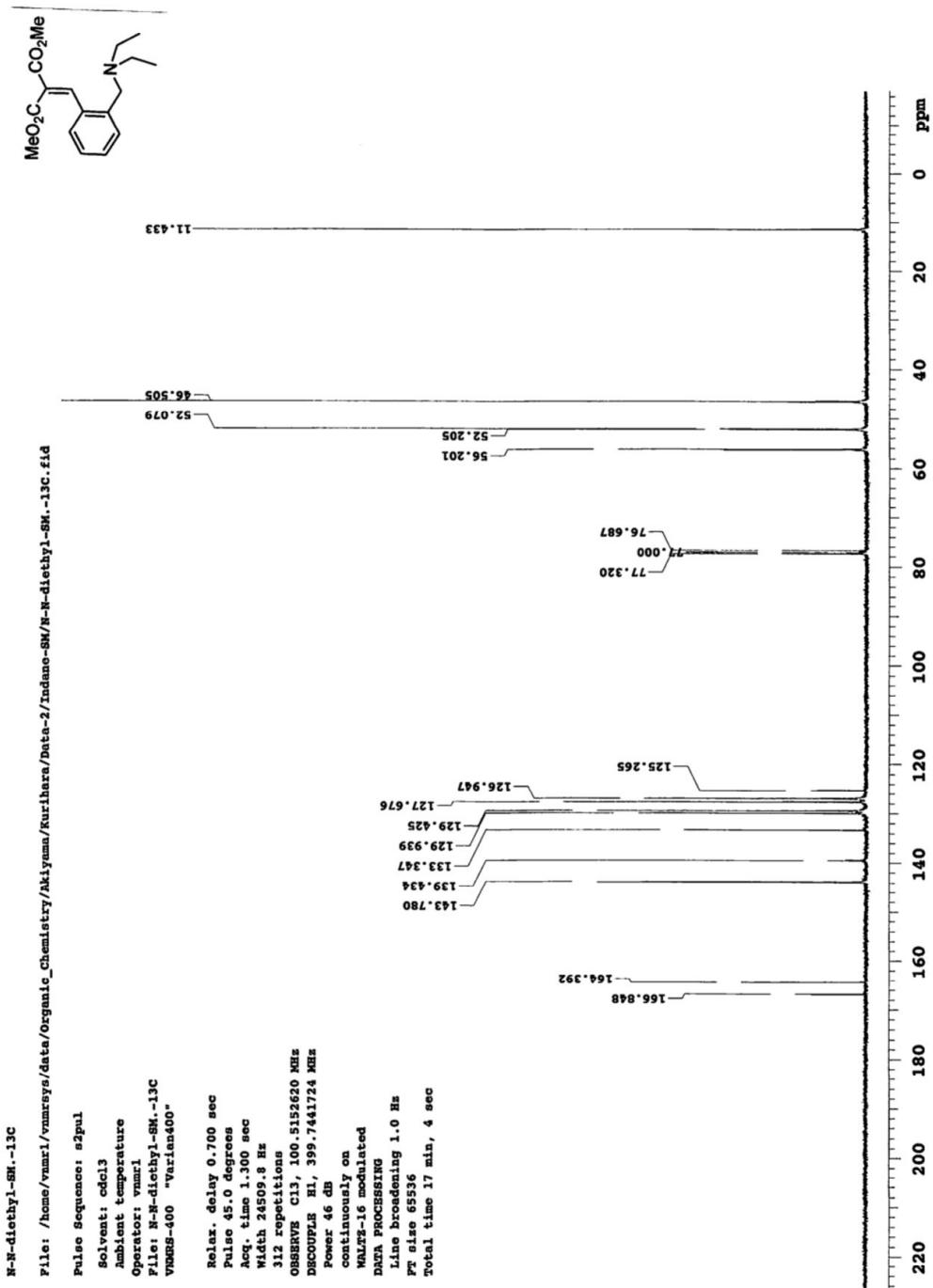
^{13}C NMR spectrum of **5**.



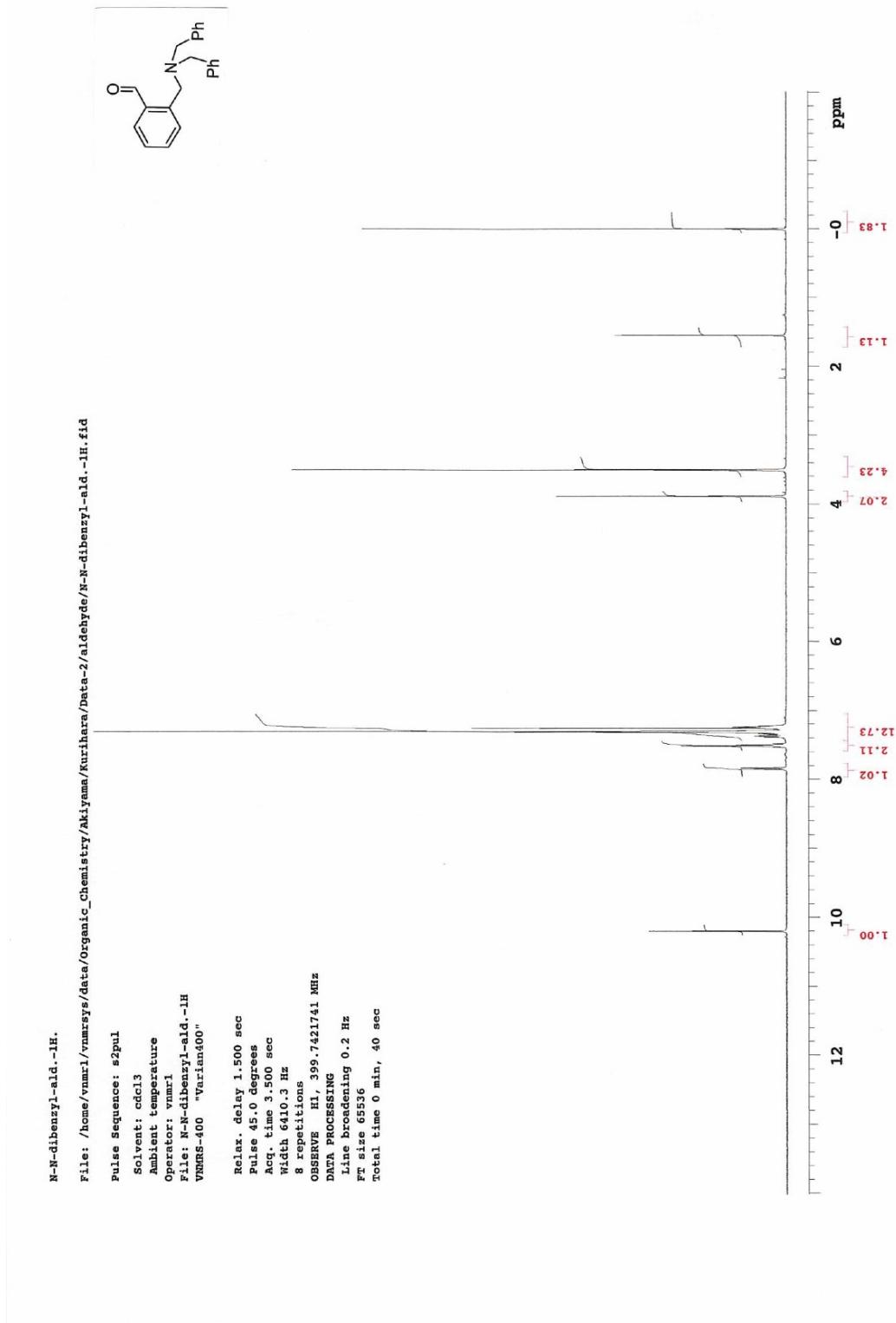
¹H NMR spectrum of **3b**.



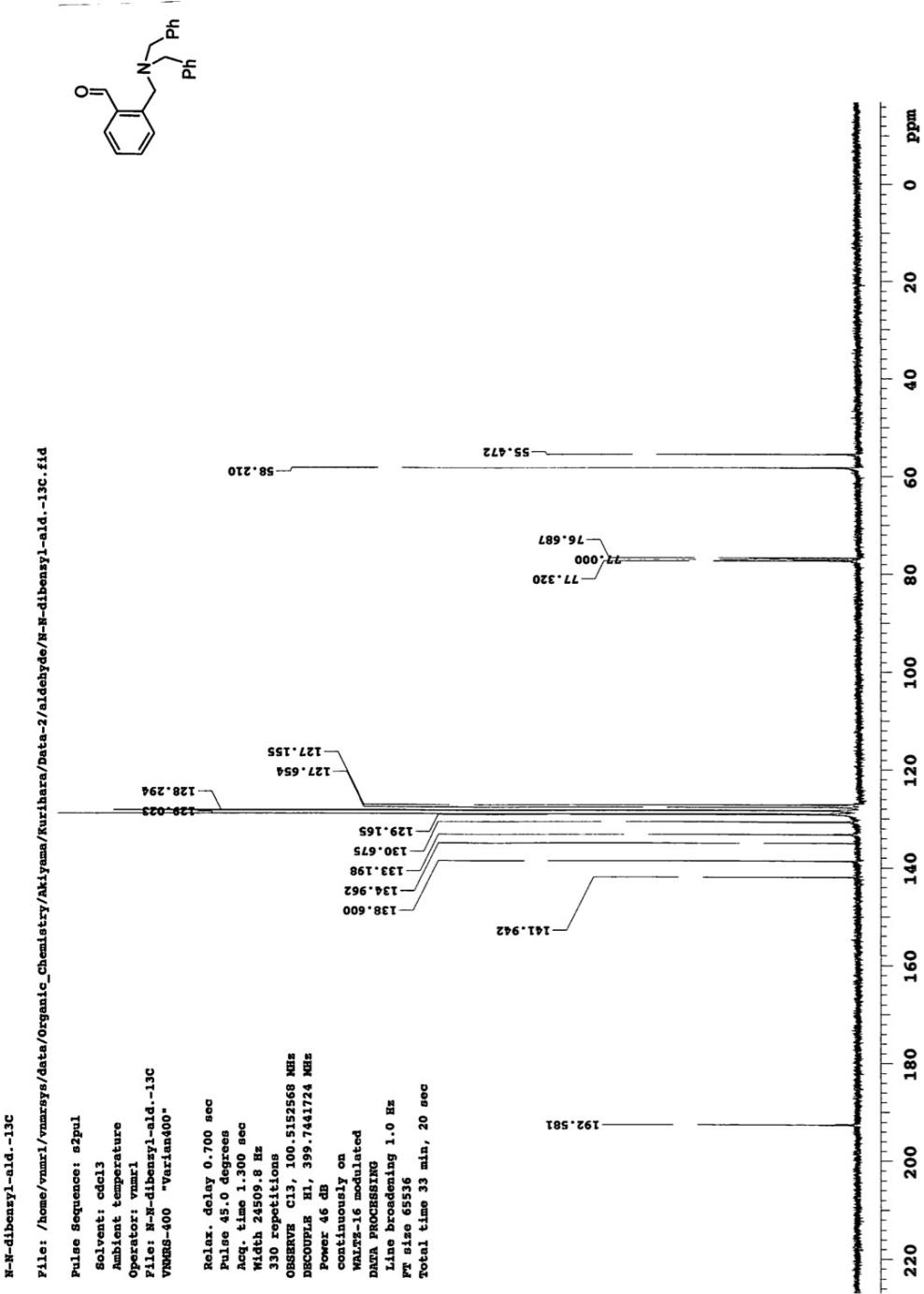
¹³C NMR spectrum of **3b**.



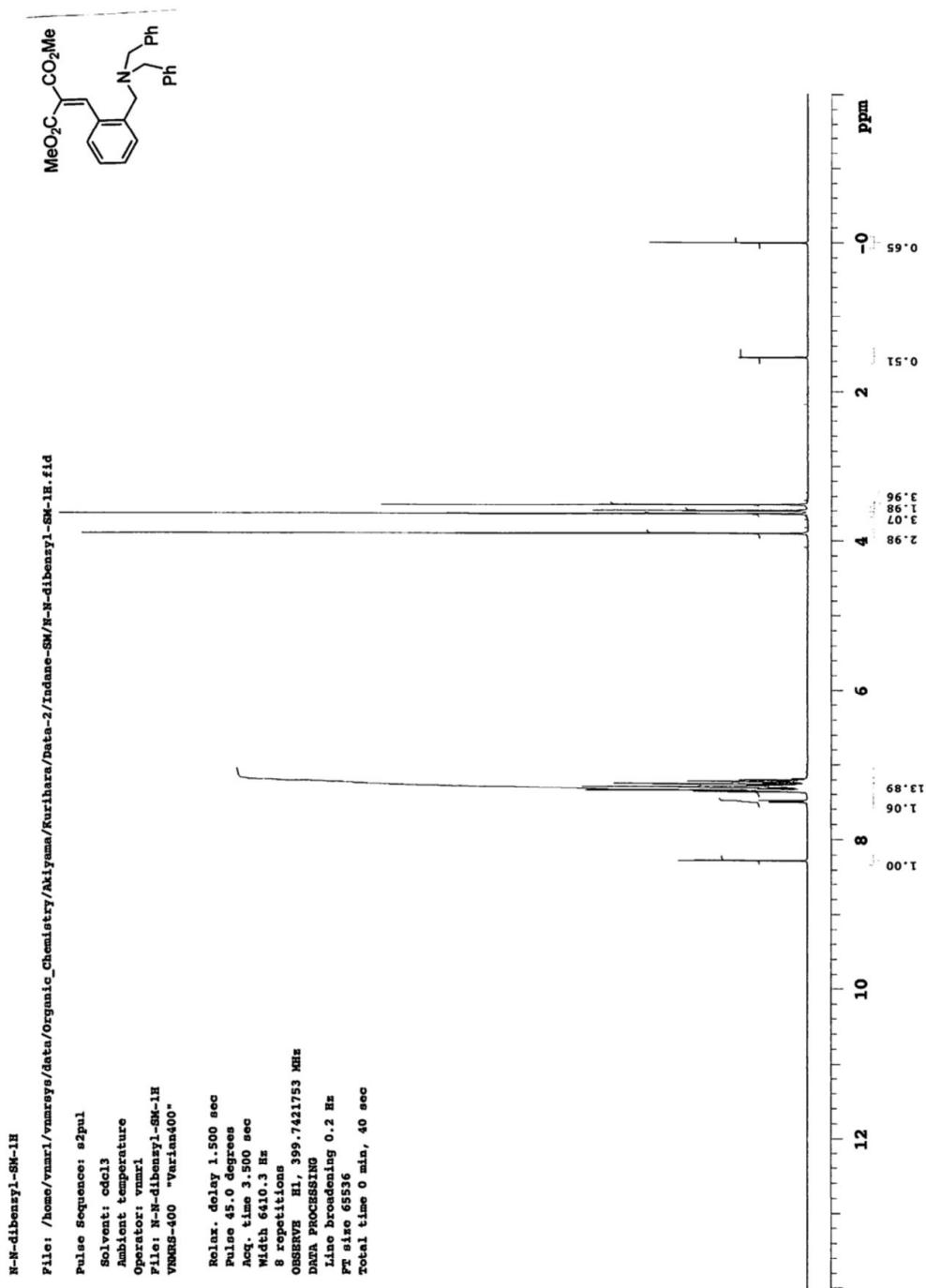
¹H NMR spectrum of s4.



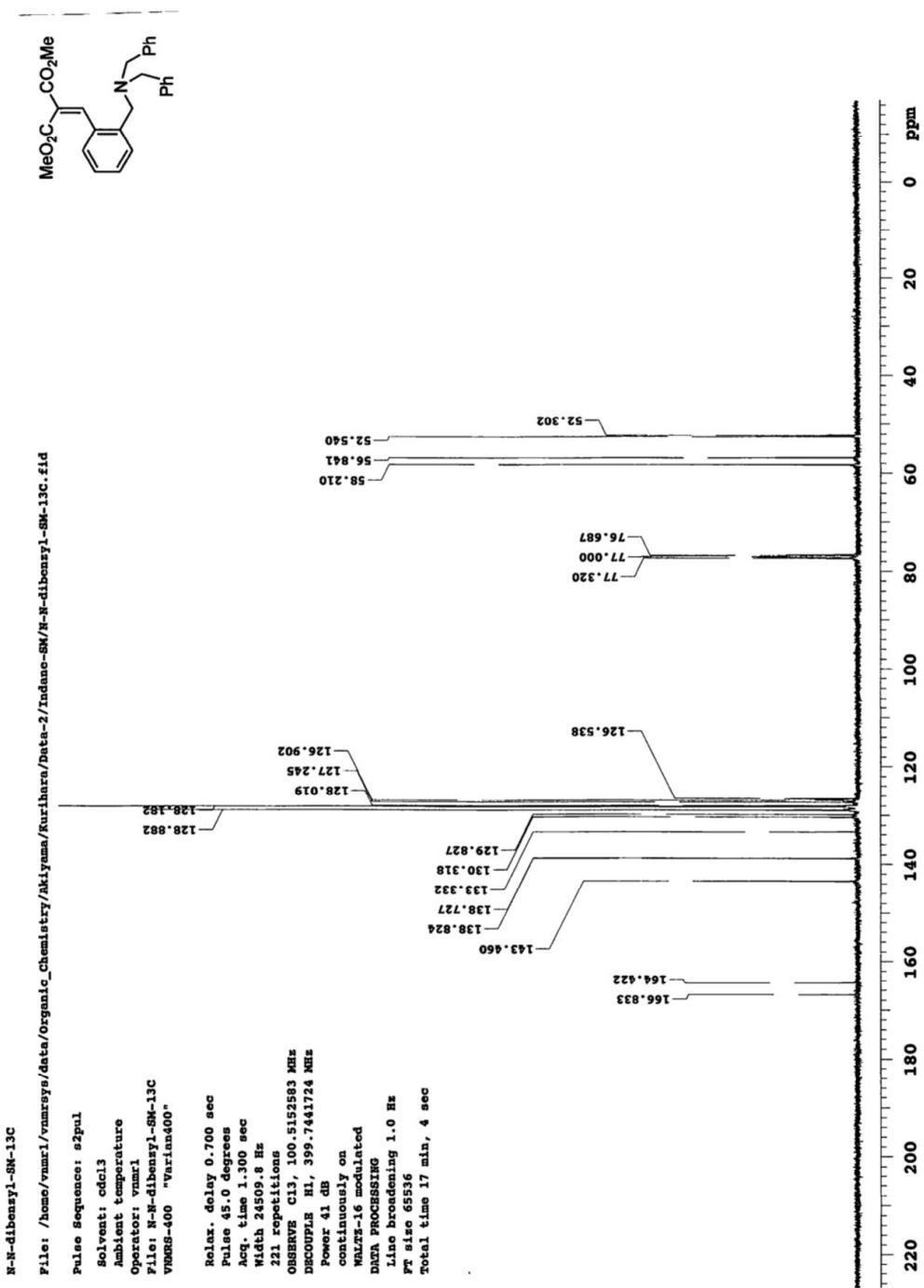
^{13}C NMR spectrum of s4.



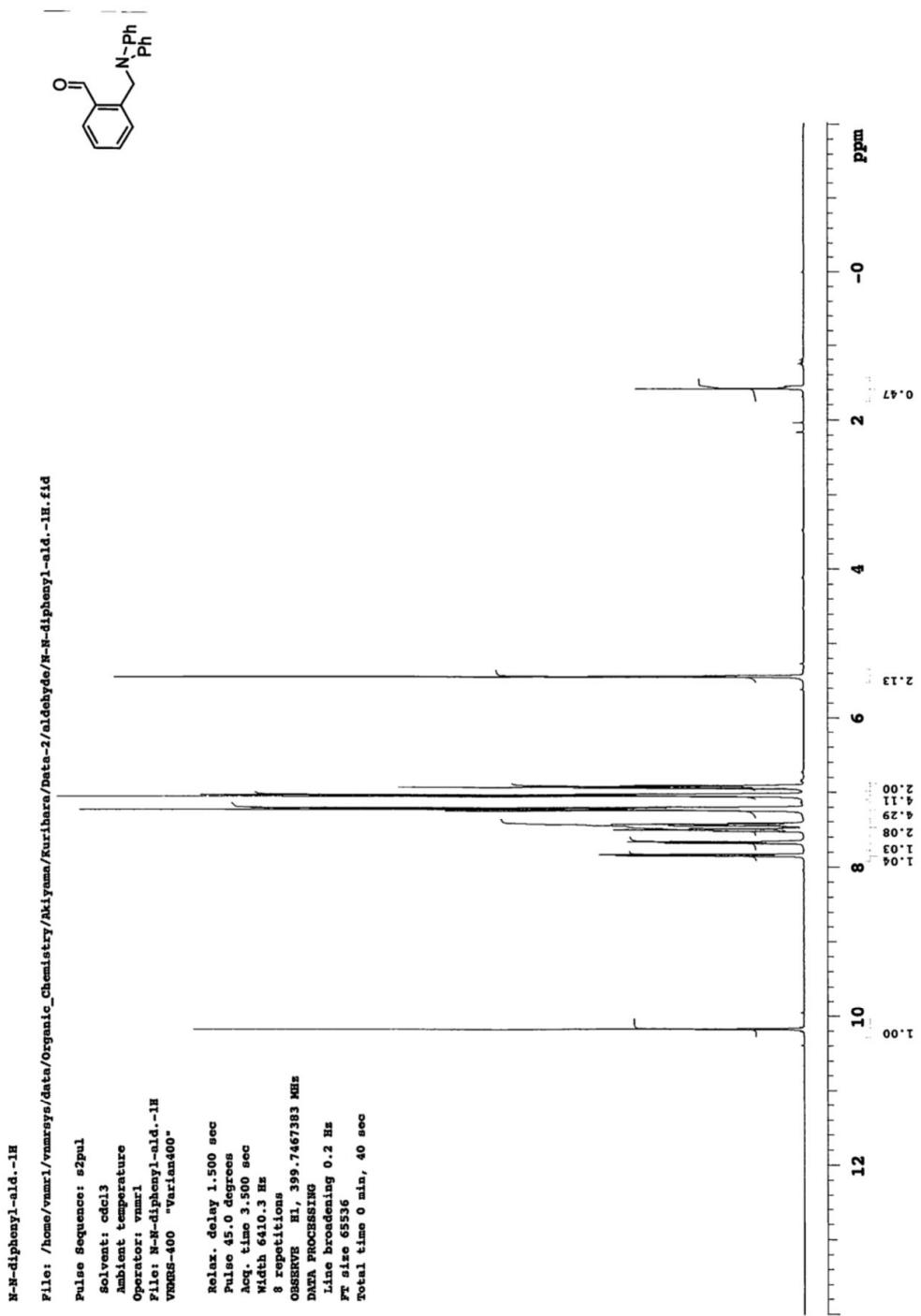
¹H NMR spectrum of **3c**.



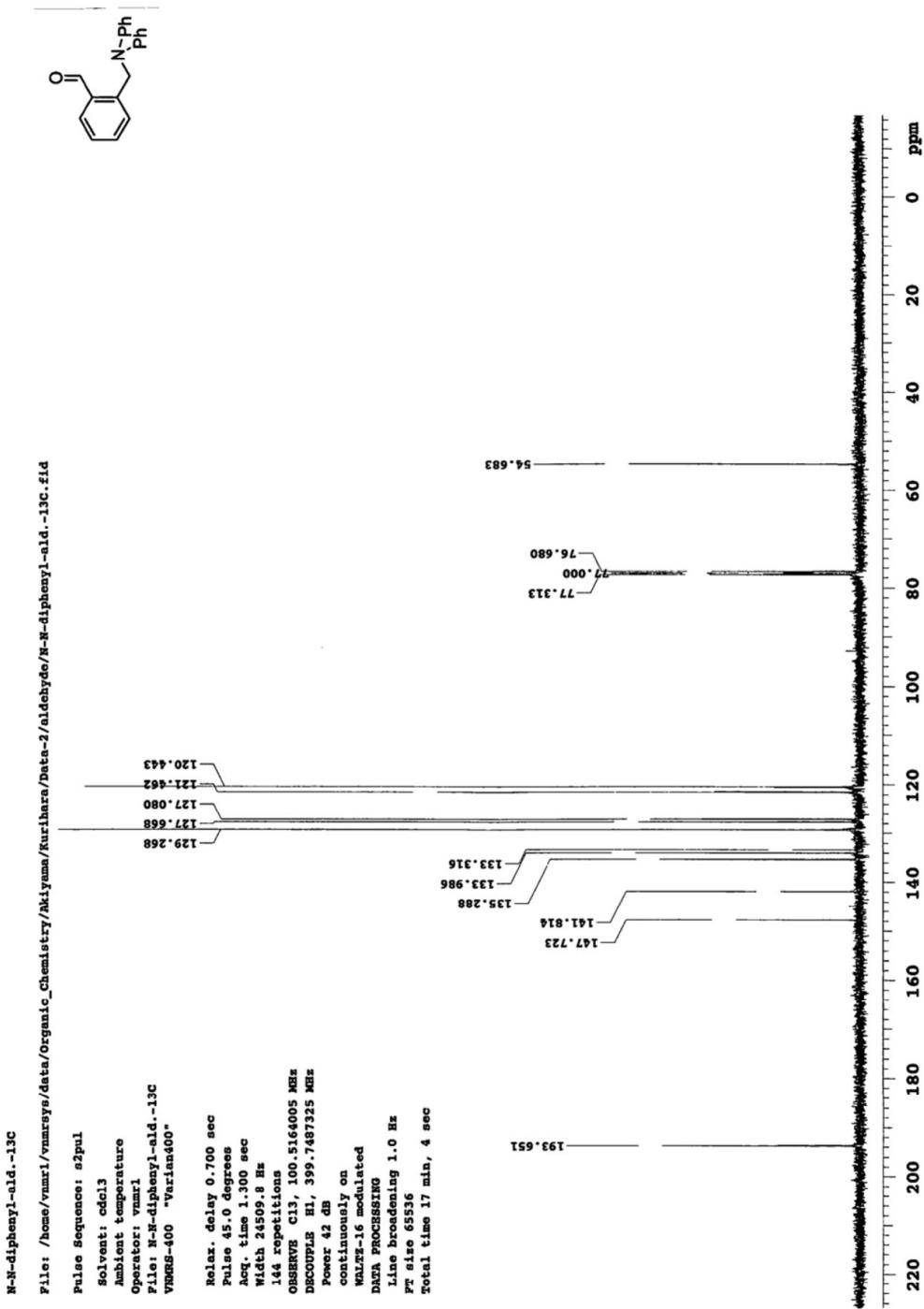
^{13}C NMR spectrum of **3c**.



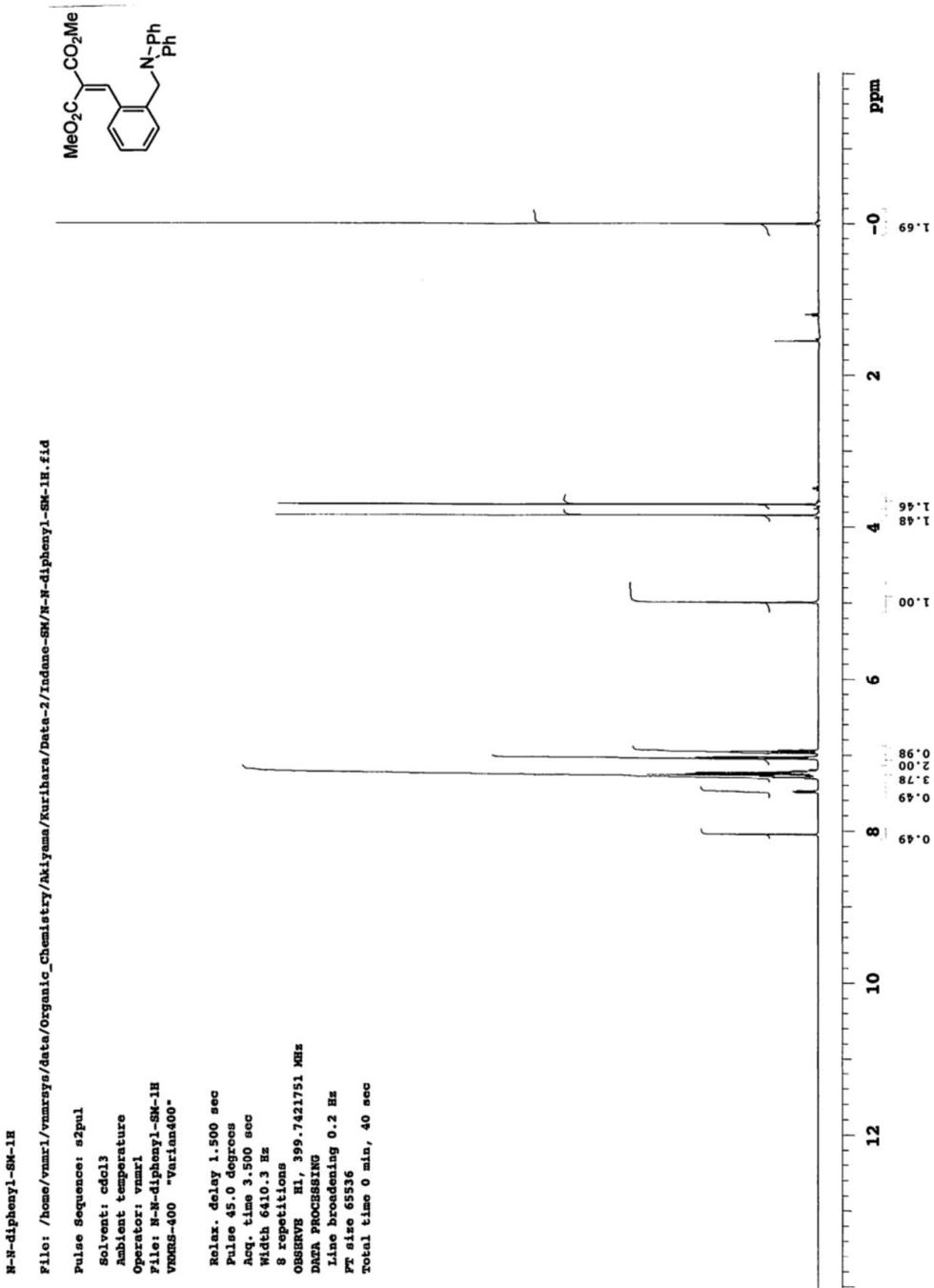
¹H NMR spectrum of s5.



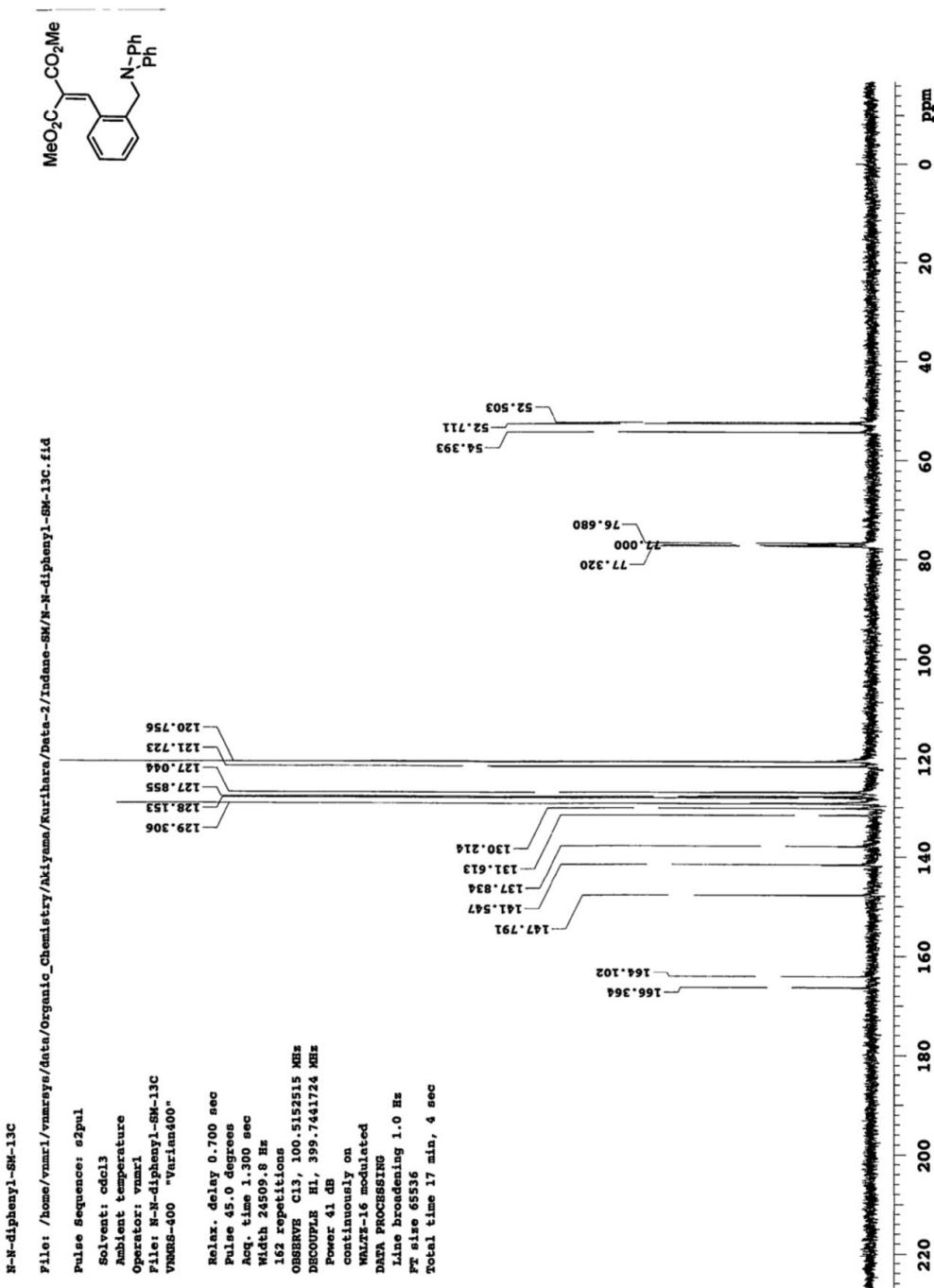
¹³C NMR spectrum of s5.



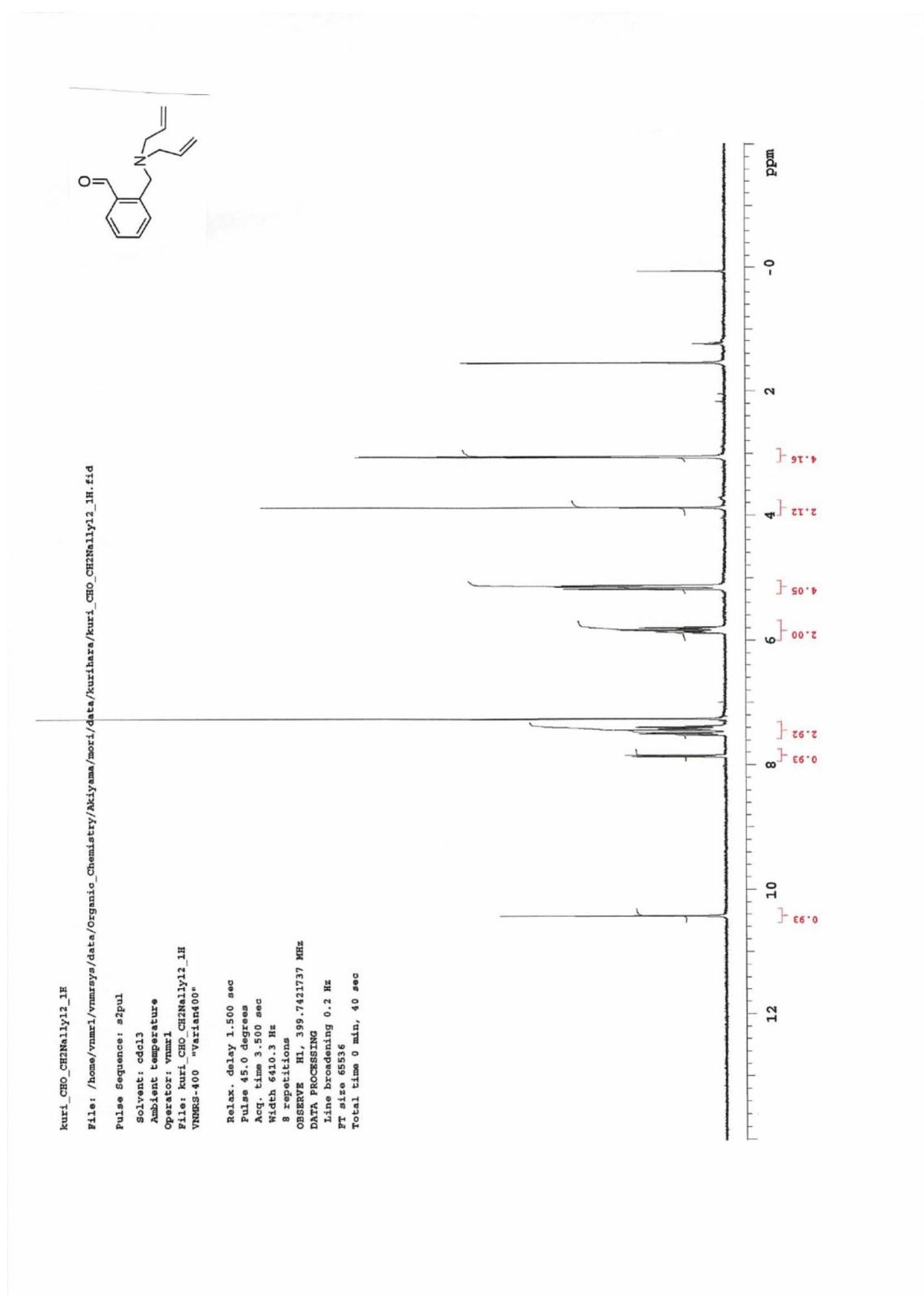
¹H NMR spectrum of **3d**.



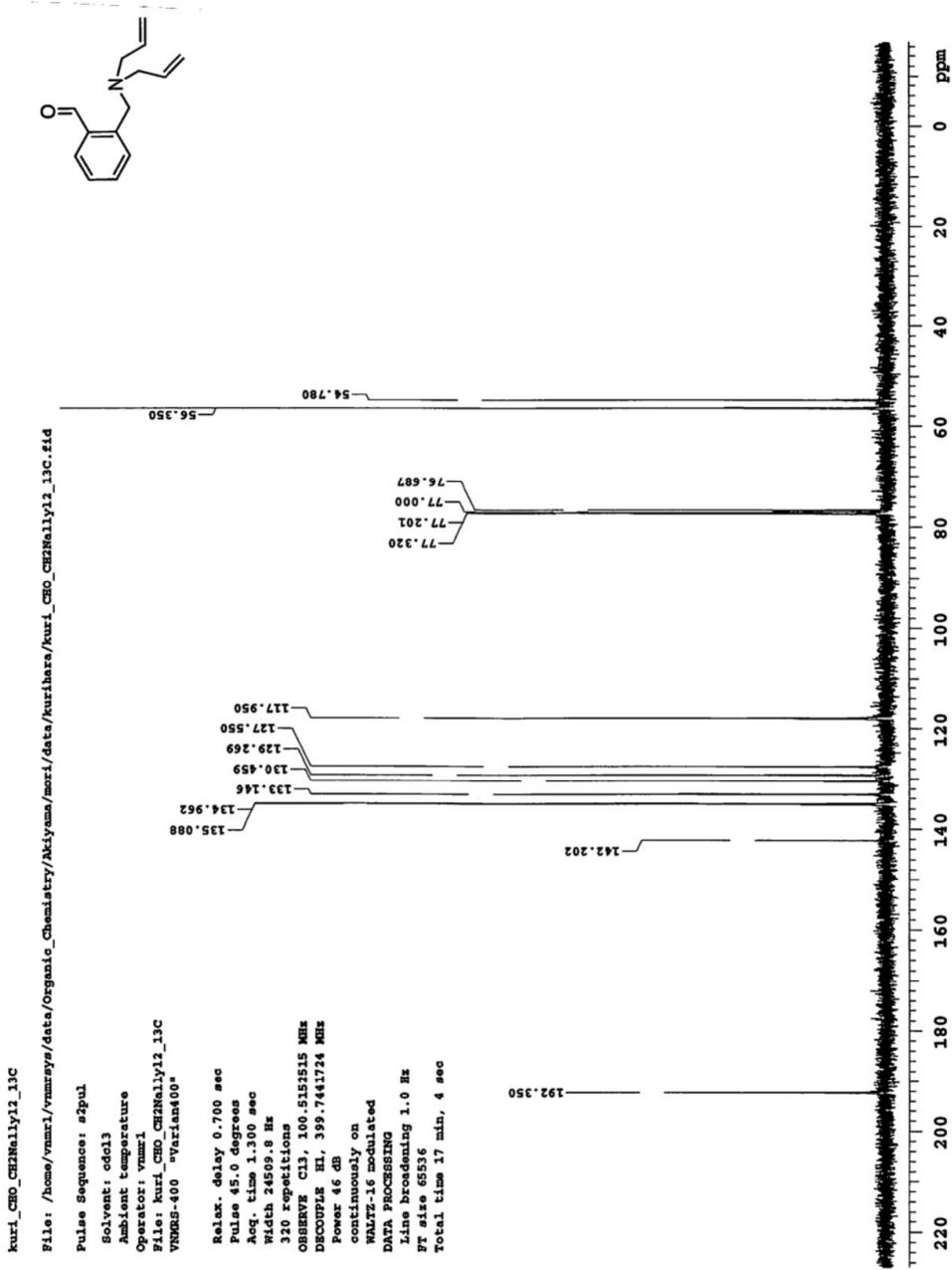
^{13}C NMR spectrum of **3d**.



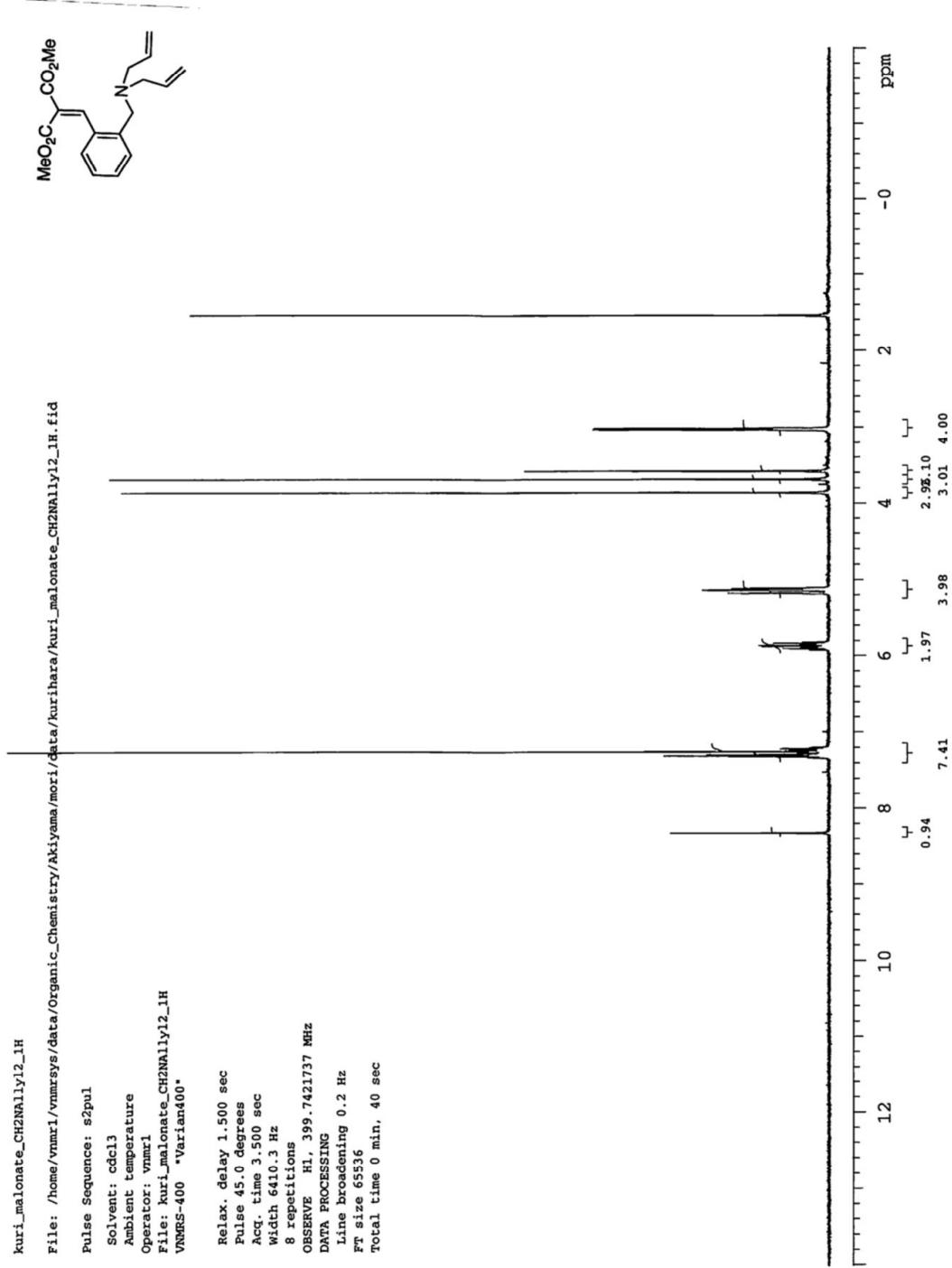
¹H NMR spectrum of **s6**.



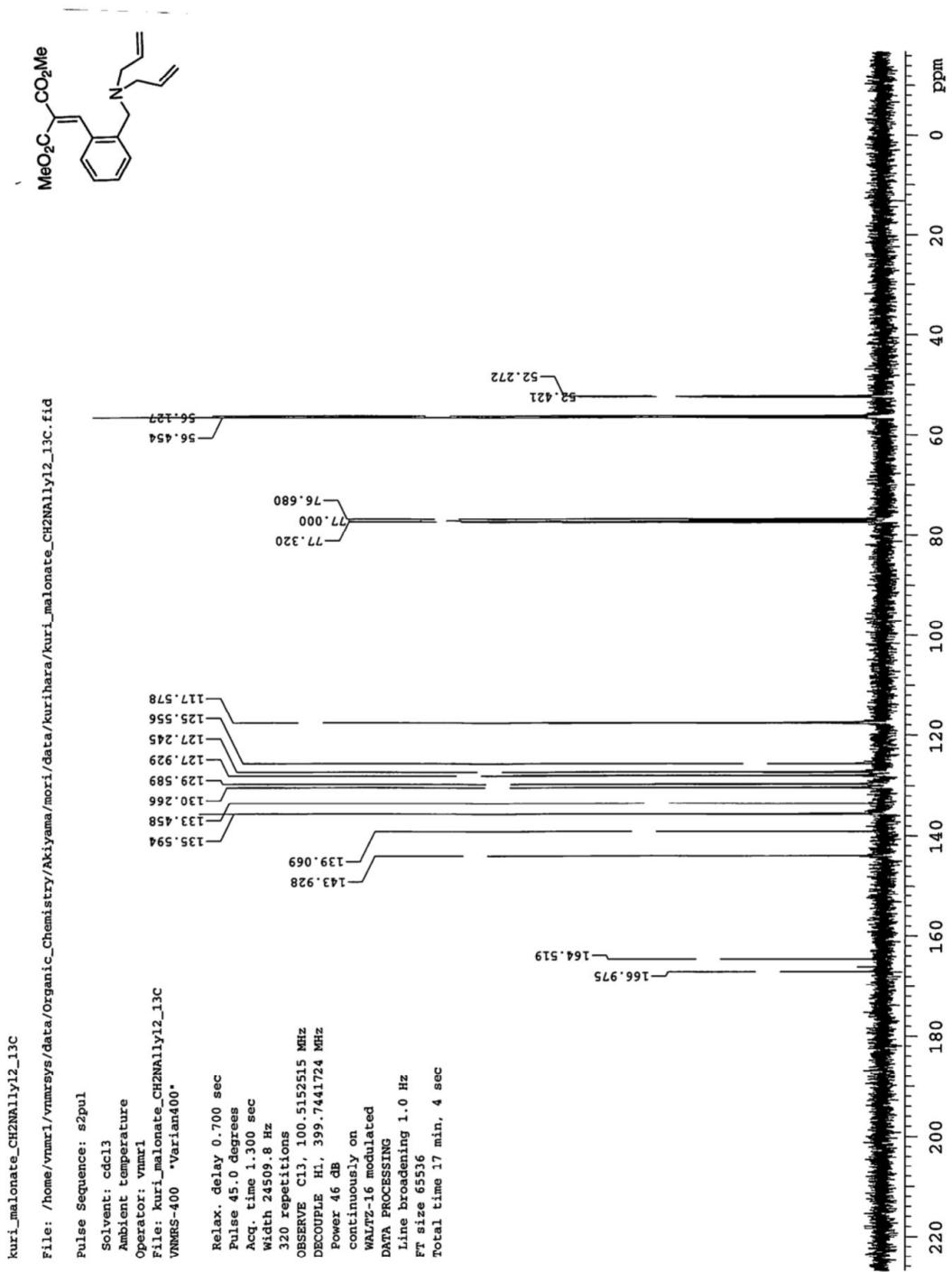
¹³C NMR spectrum of **s6**.



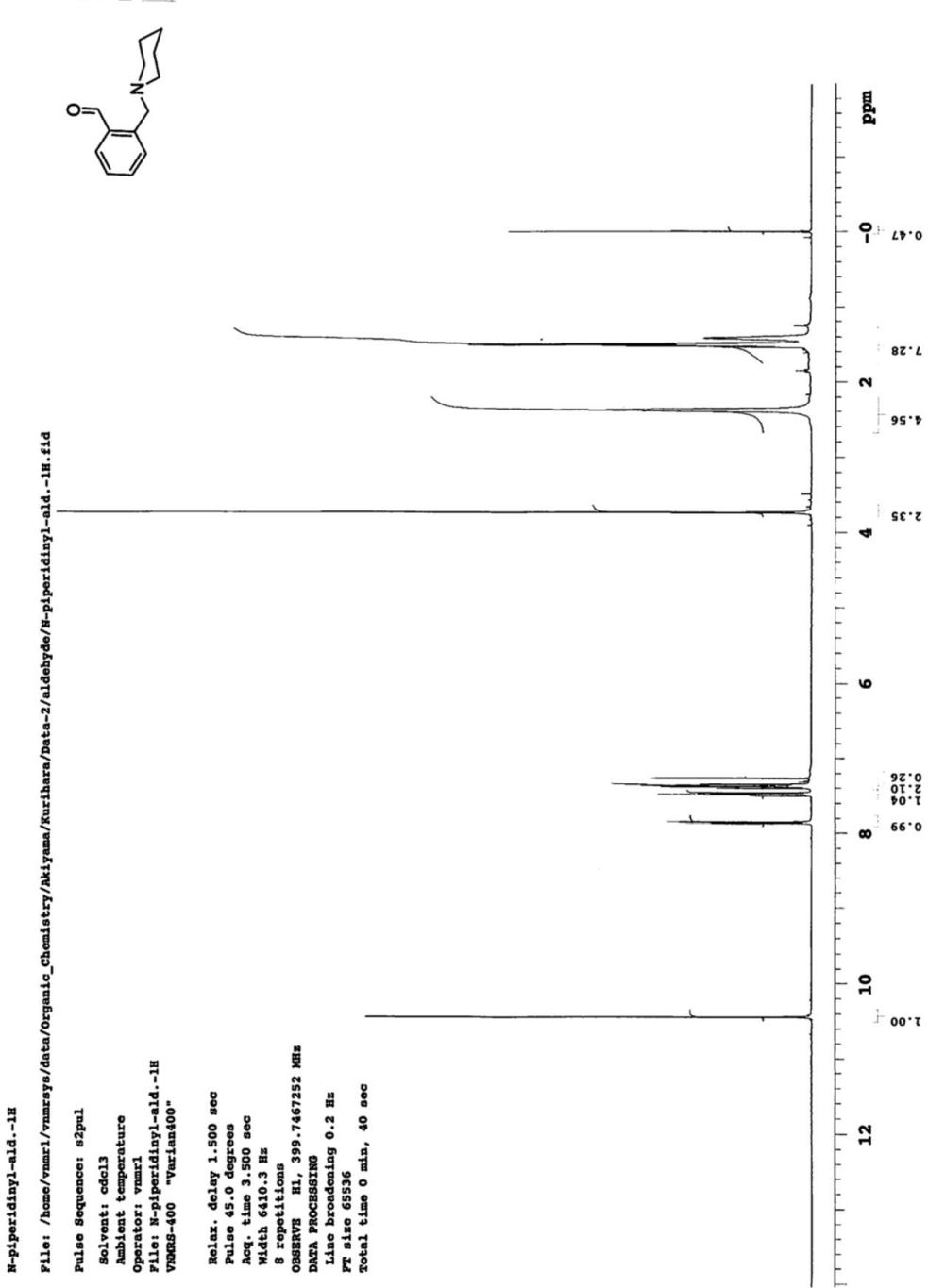
¹H NMR spectrum of **3e**.



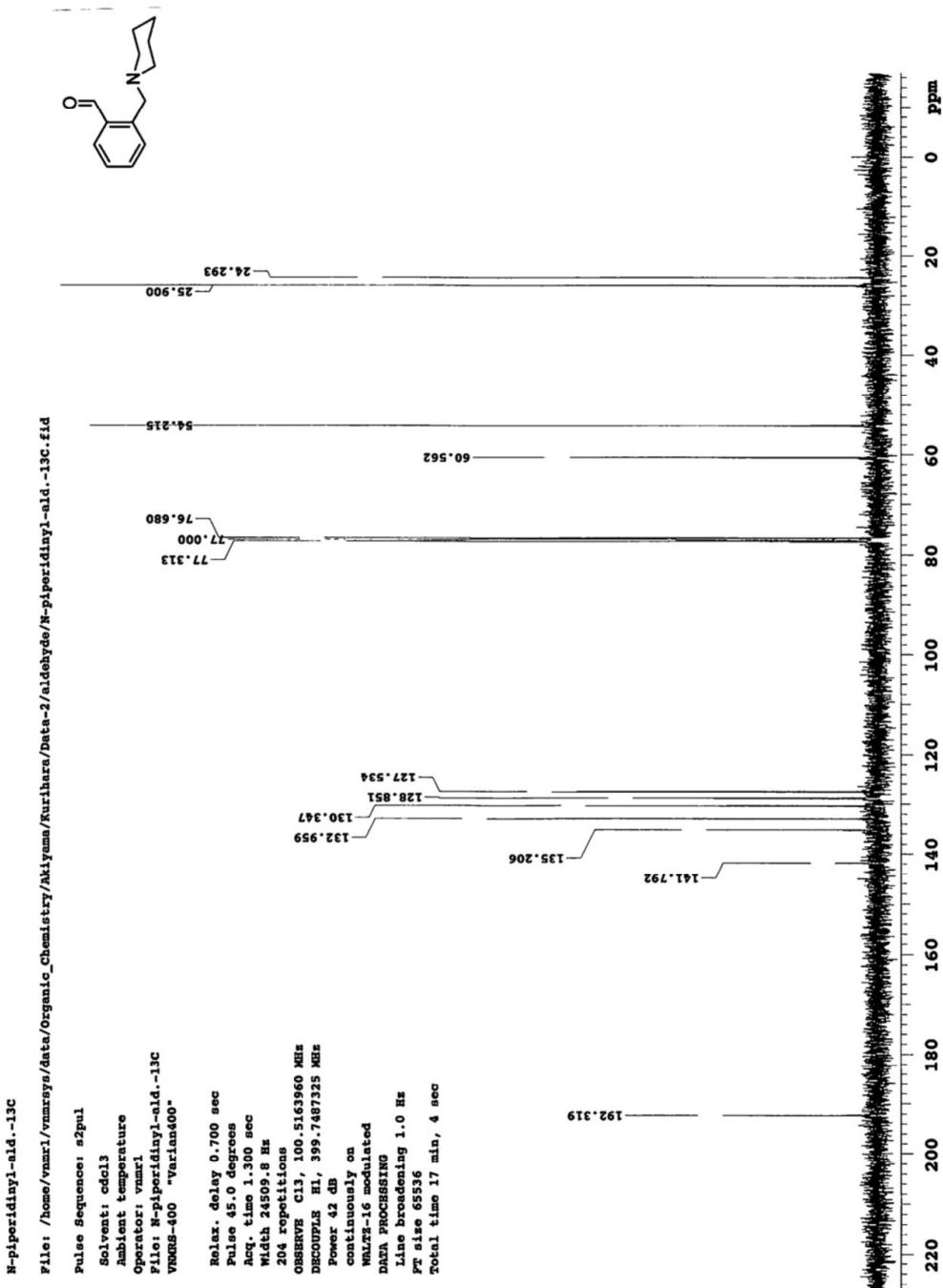
^{13}C NMR spectrum of **3e**.



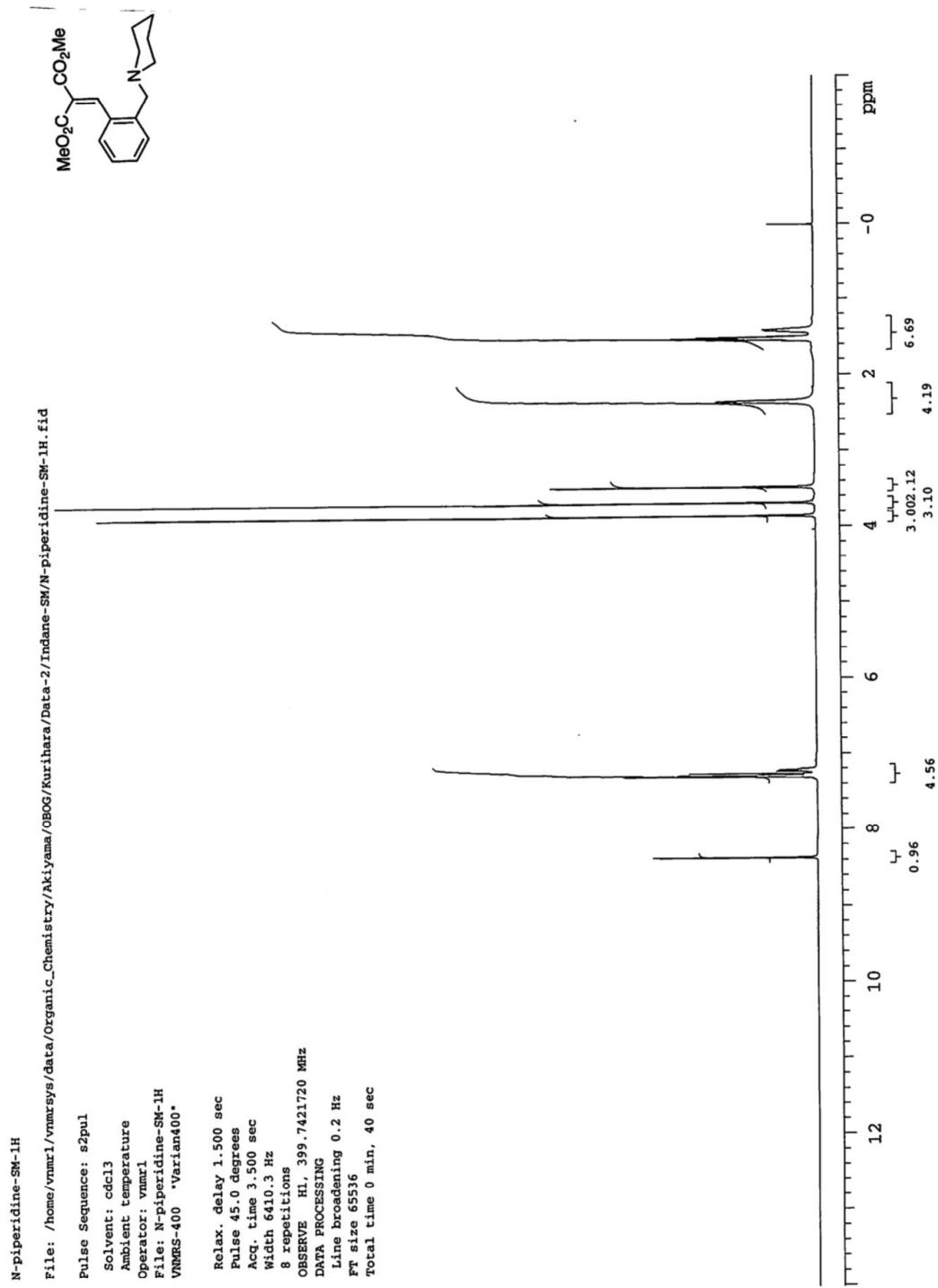
¹H NMR spectrum of s7.



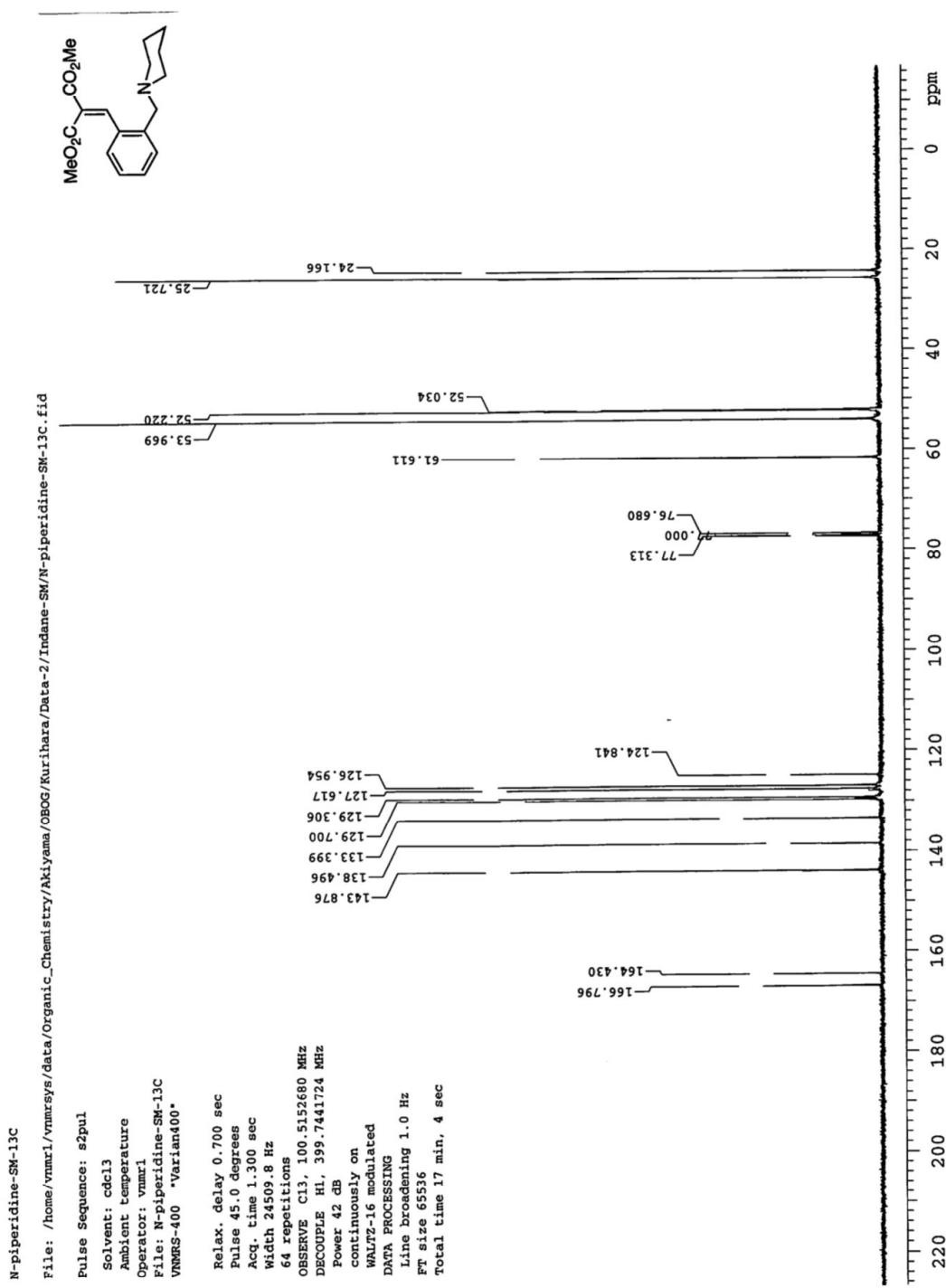
^{13}C NMR spectrum of s7.



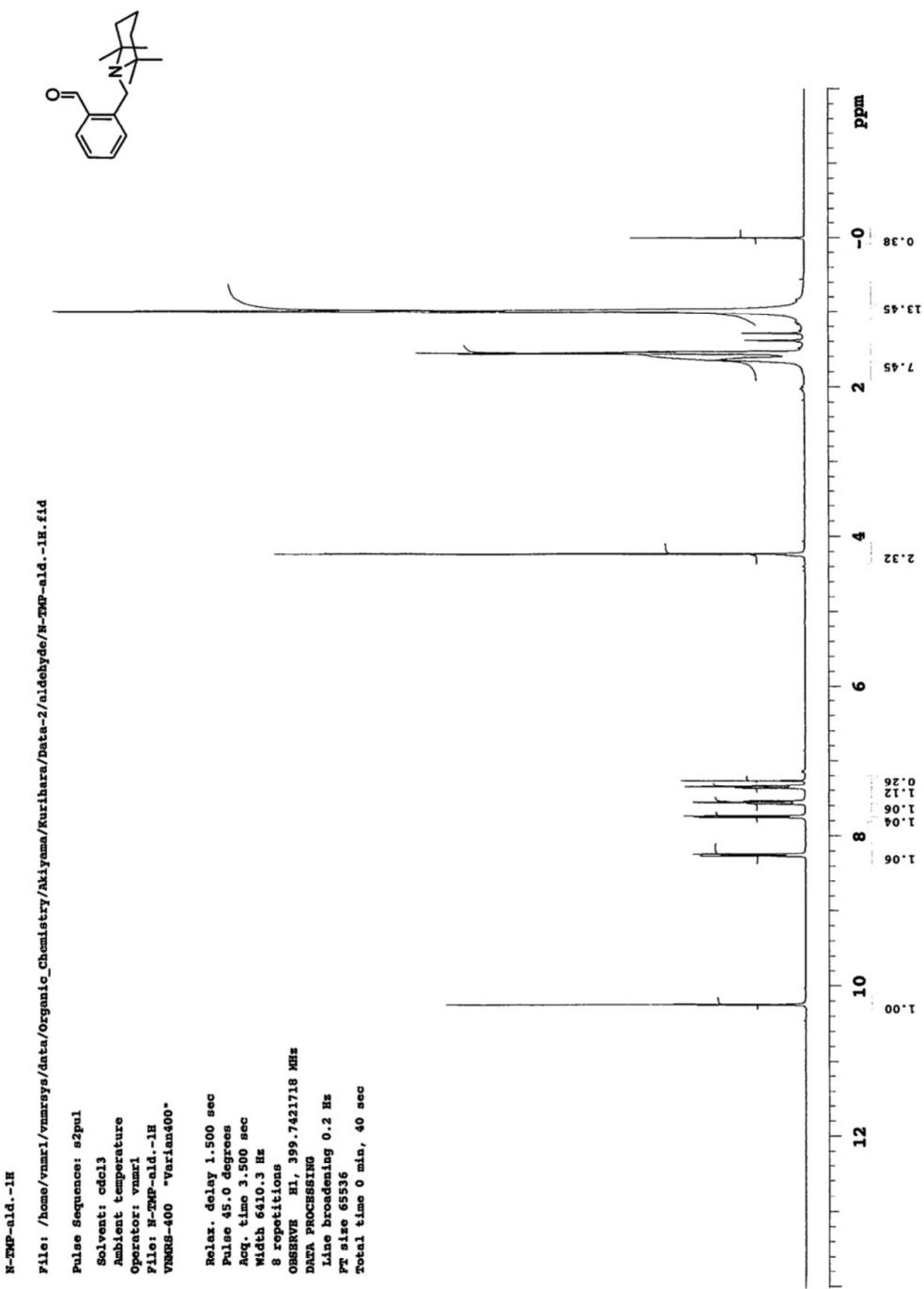
¹H NMR spectrum of **3f**.



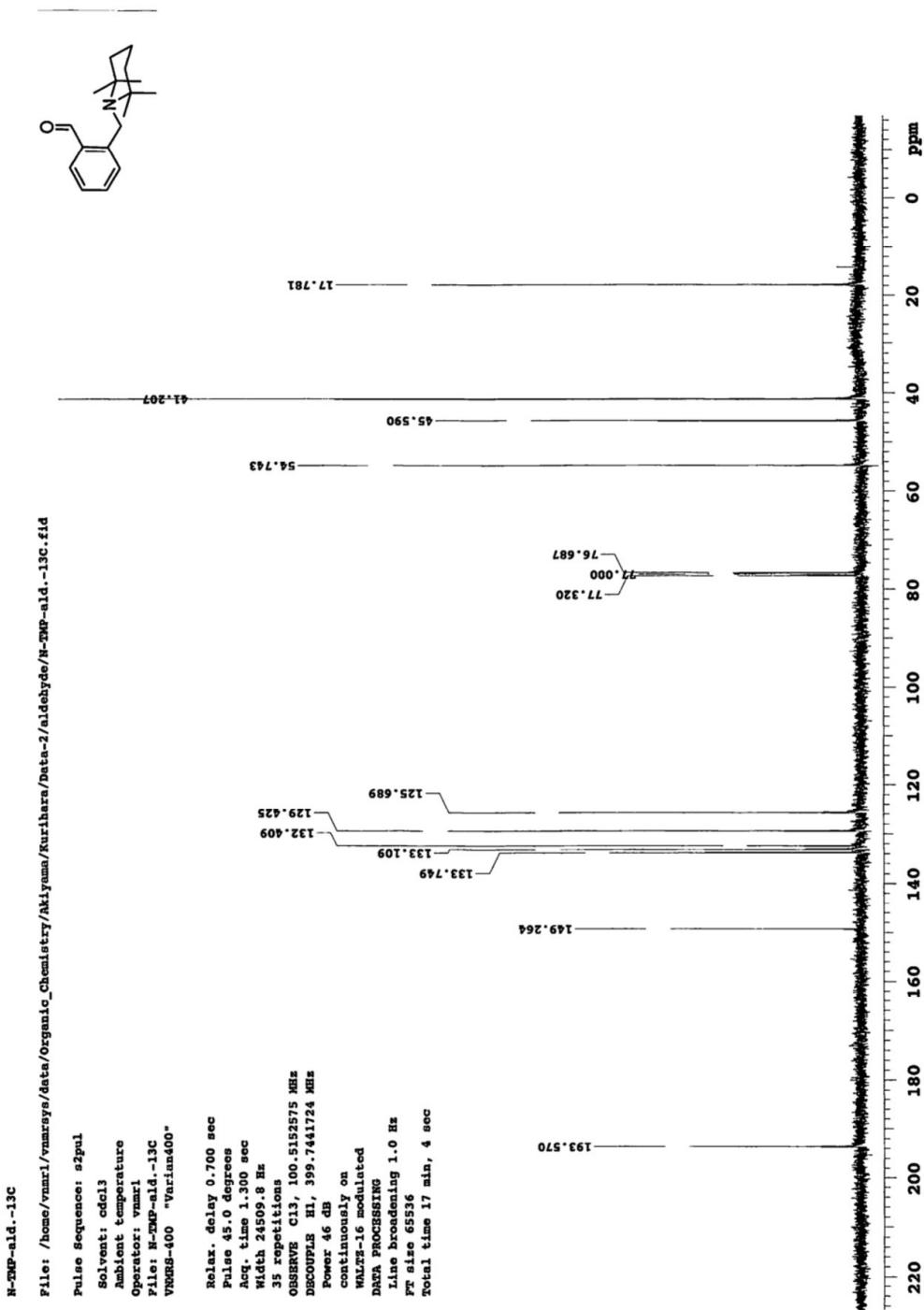
^{13}C NMR spectrum of **3f**.



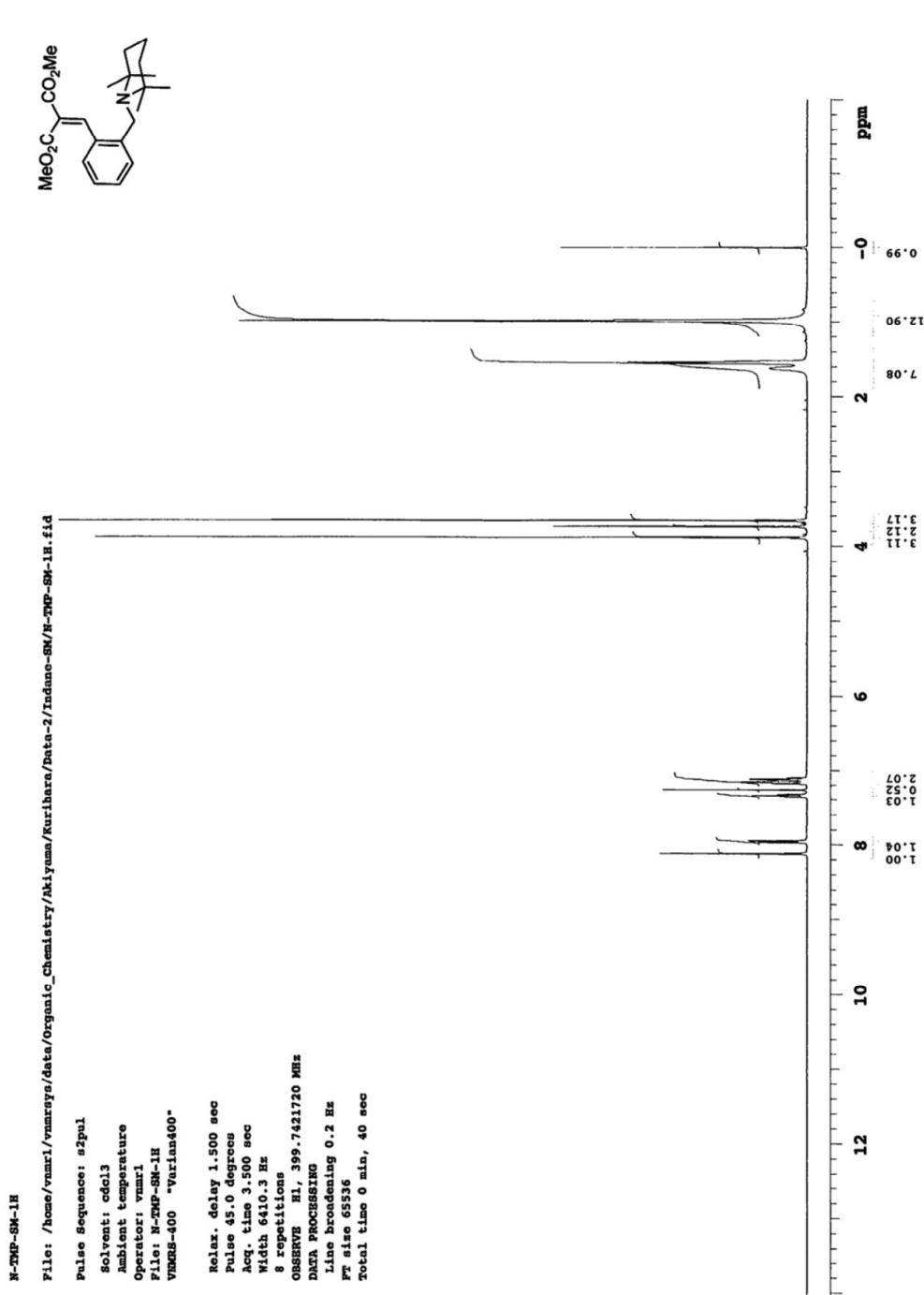
¹H NMR spectrum of s8.



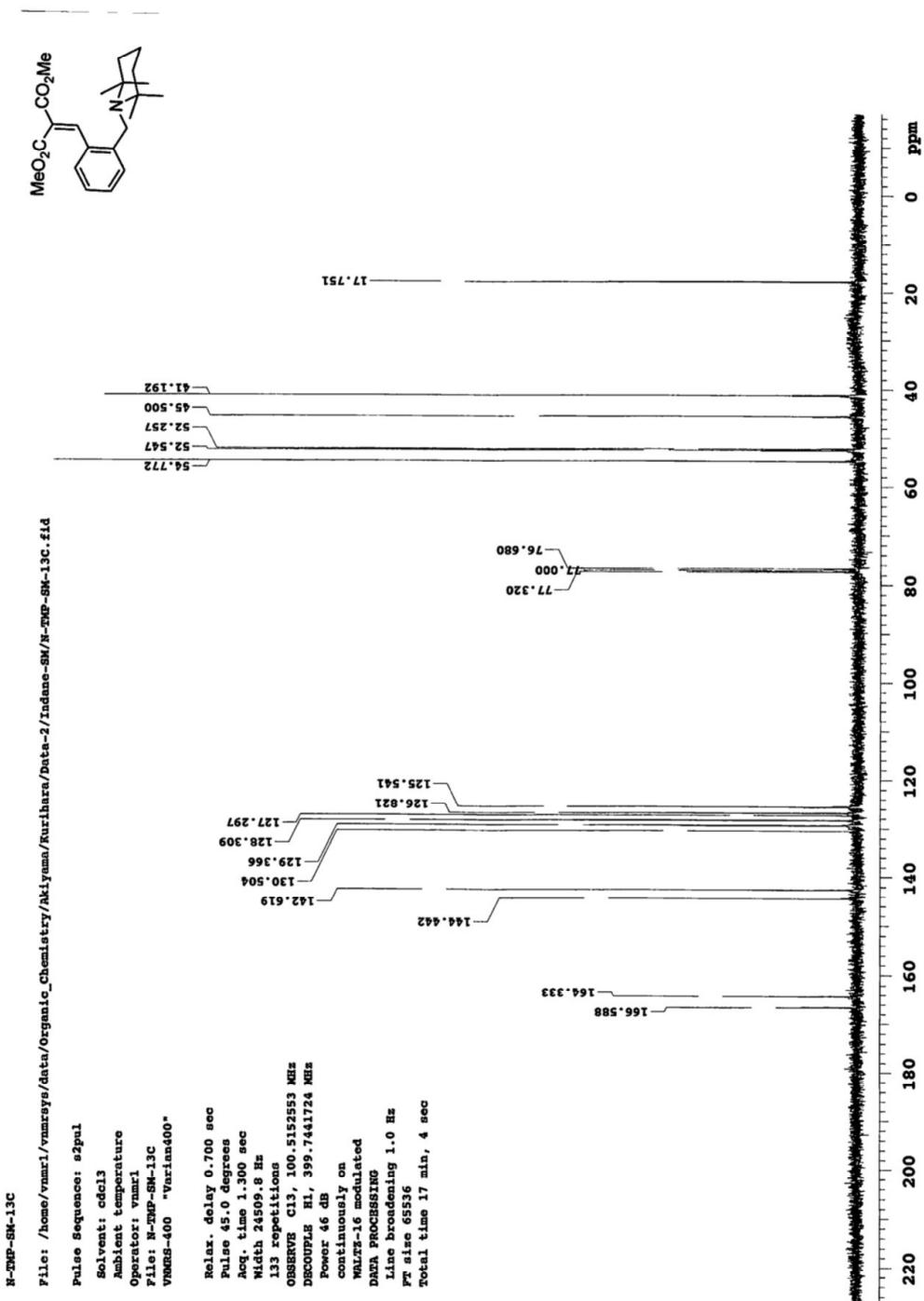
^{13}C NMR spectrum of **s8**.



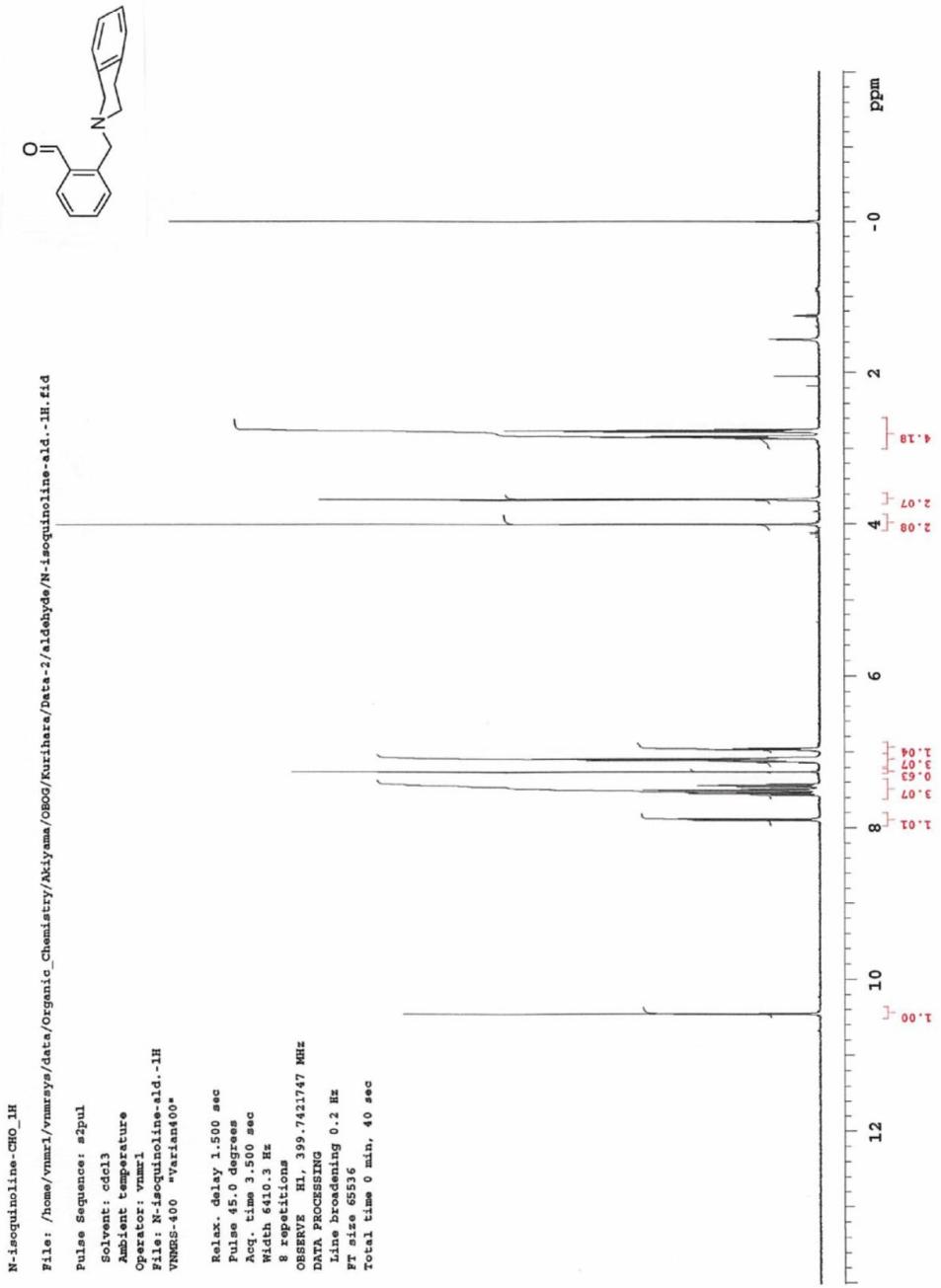
¹H NMR spectrum of **3g**.



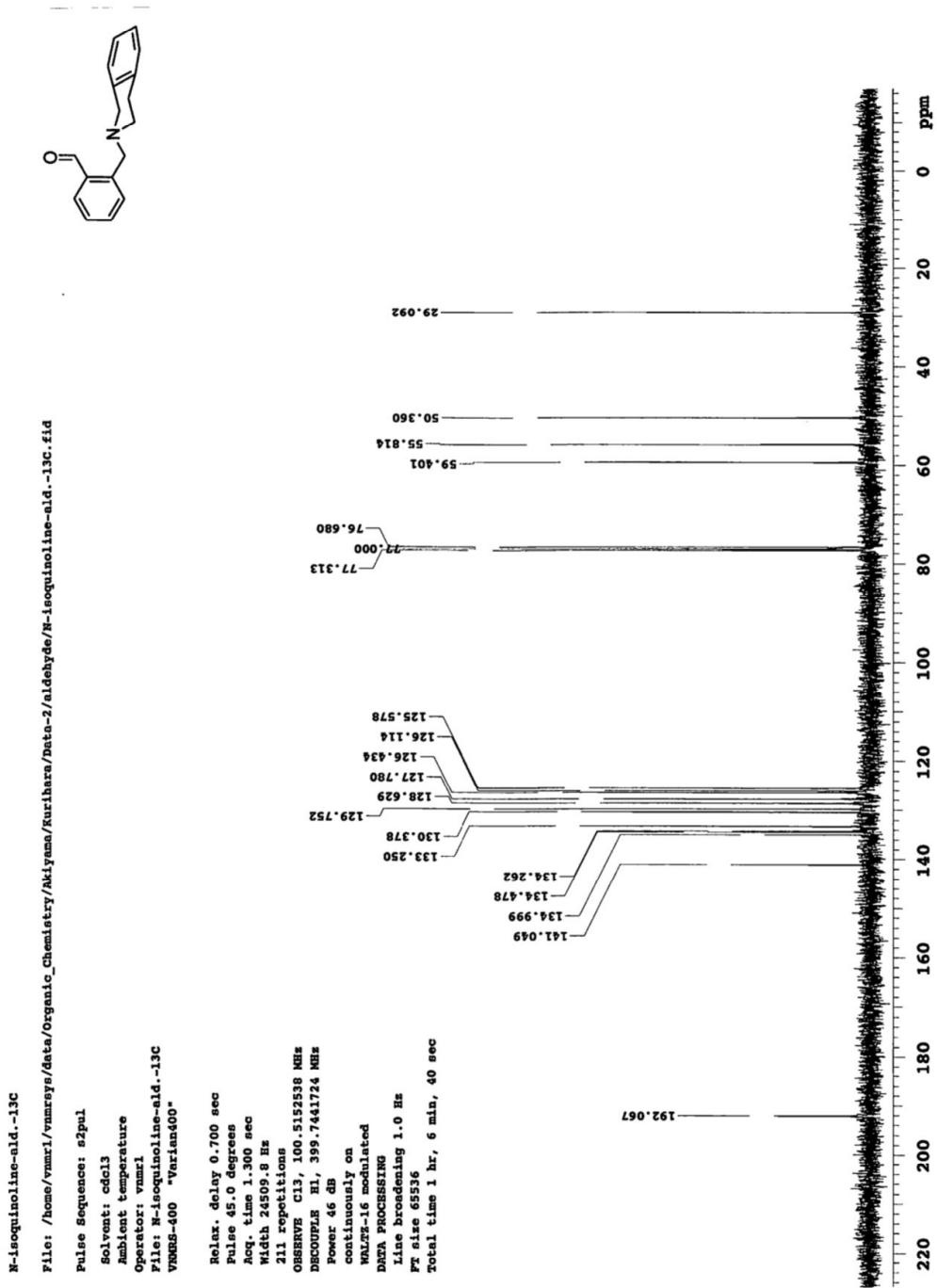
^{13}C NMR spectrum of **3g**.



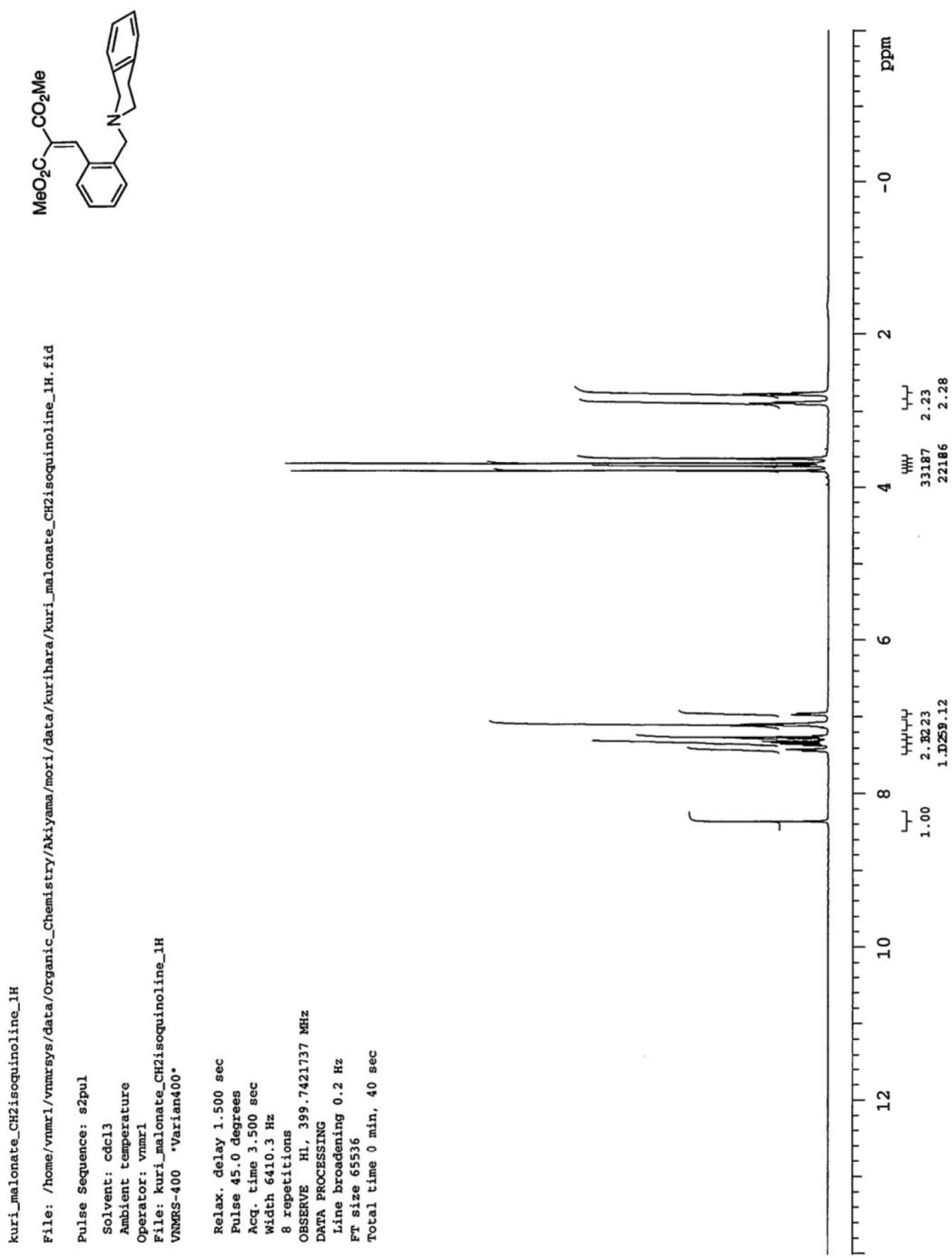
¹H NMR spectrum of s9.



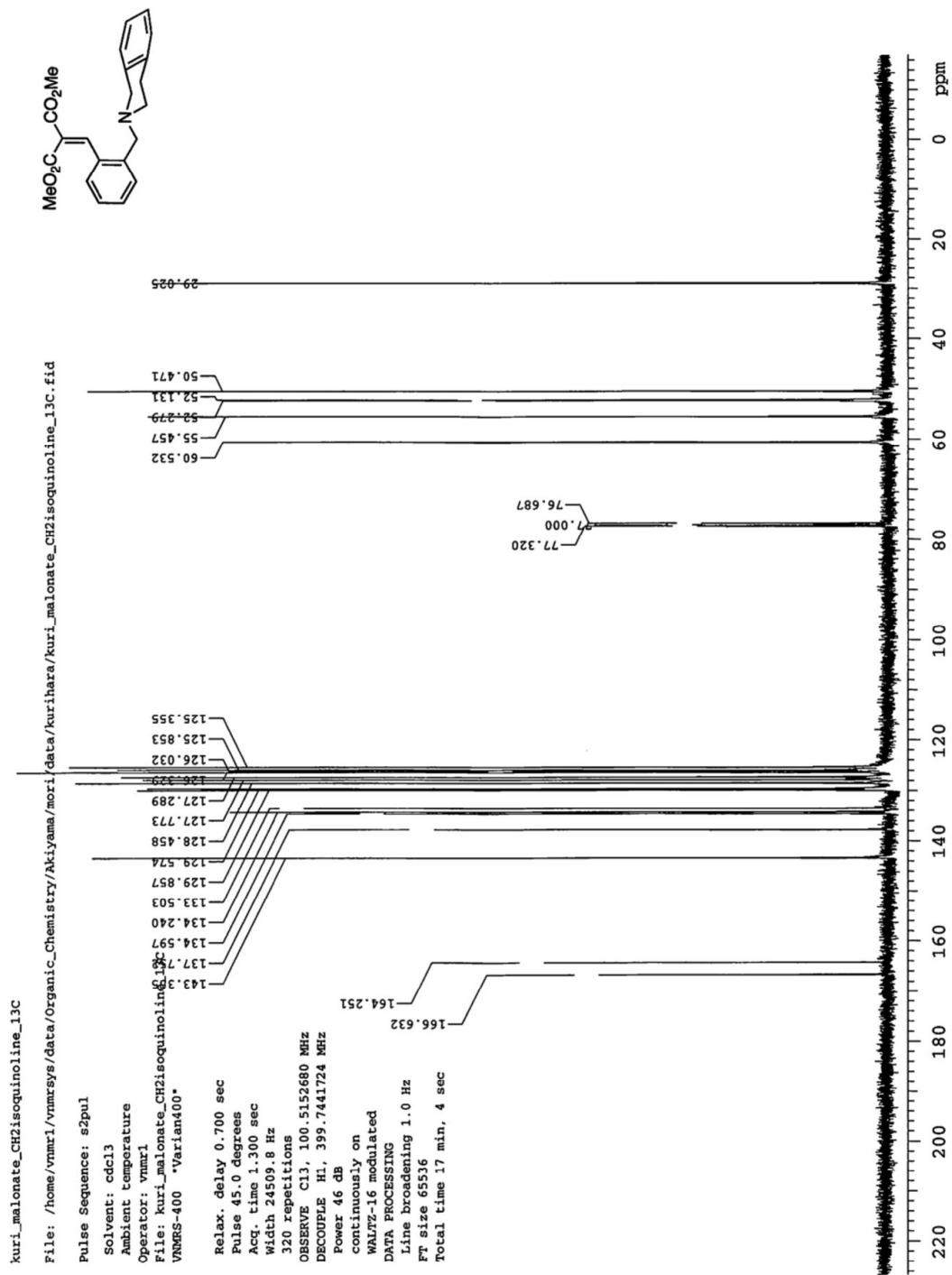
^{13}C NMR spectrum of **s9**.



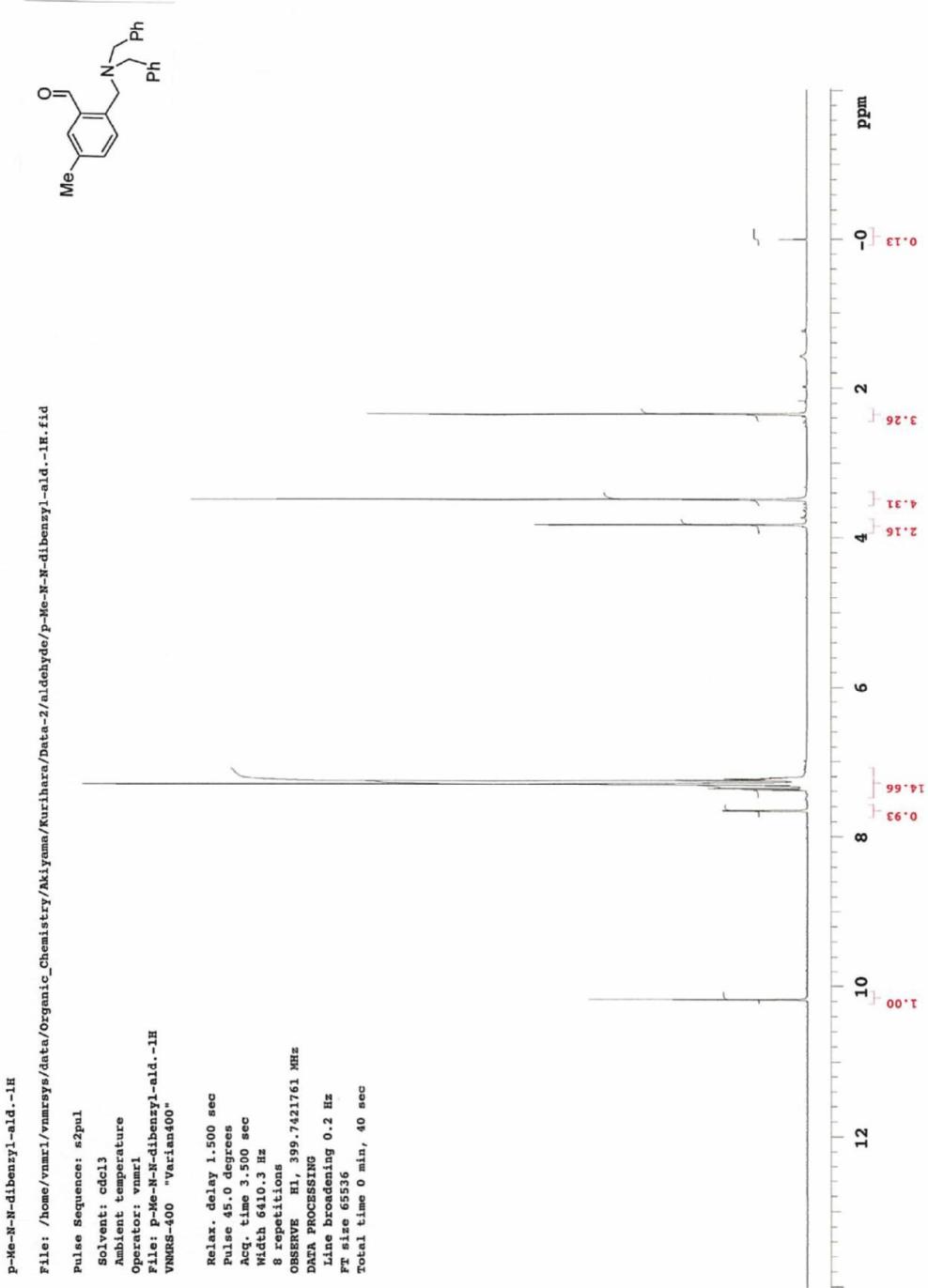
¹H NMR spectrum of **3i**.



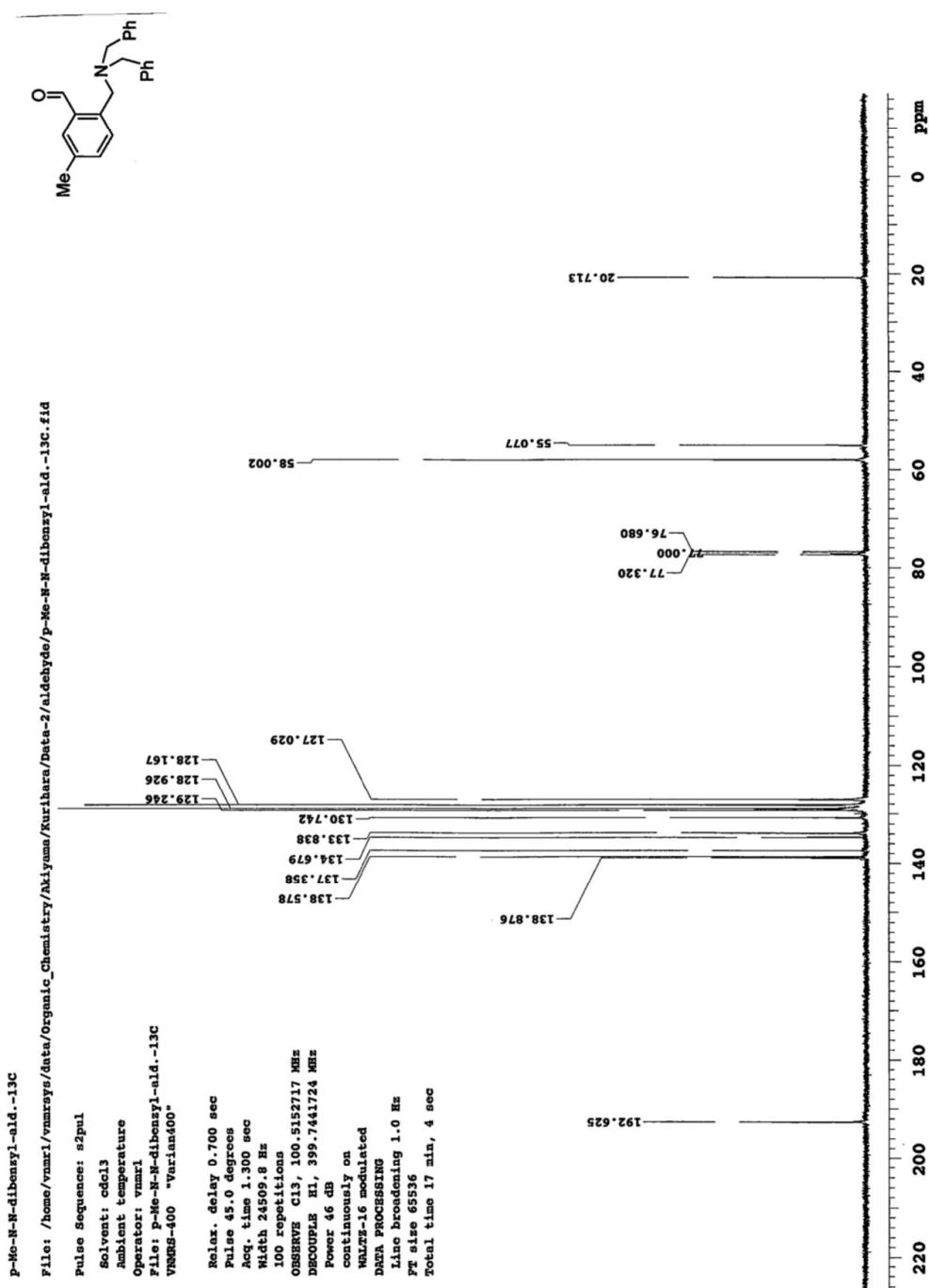
^{13}C NMR spectrum of **3i**.



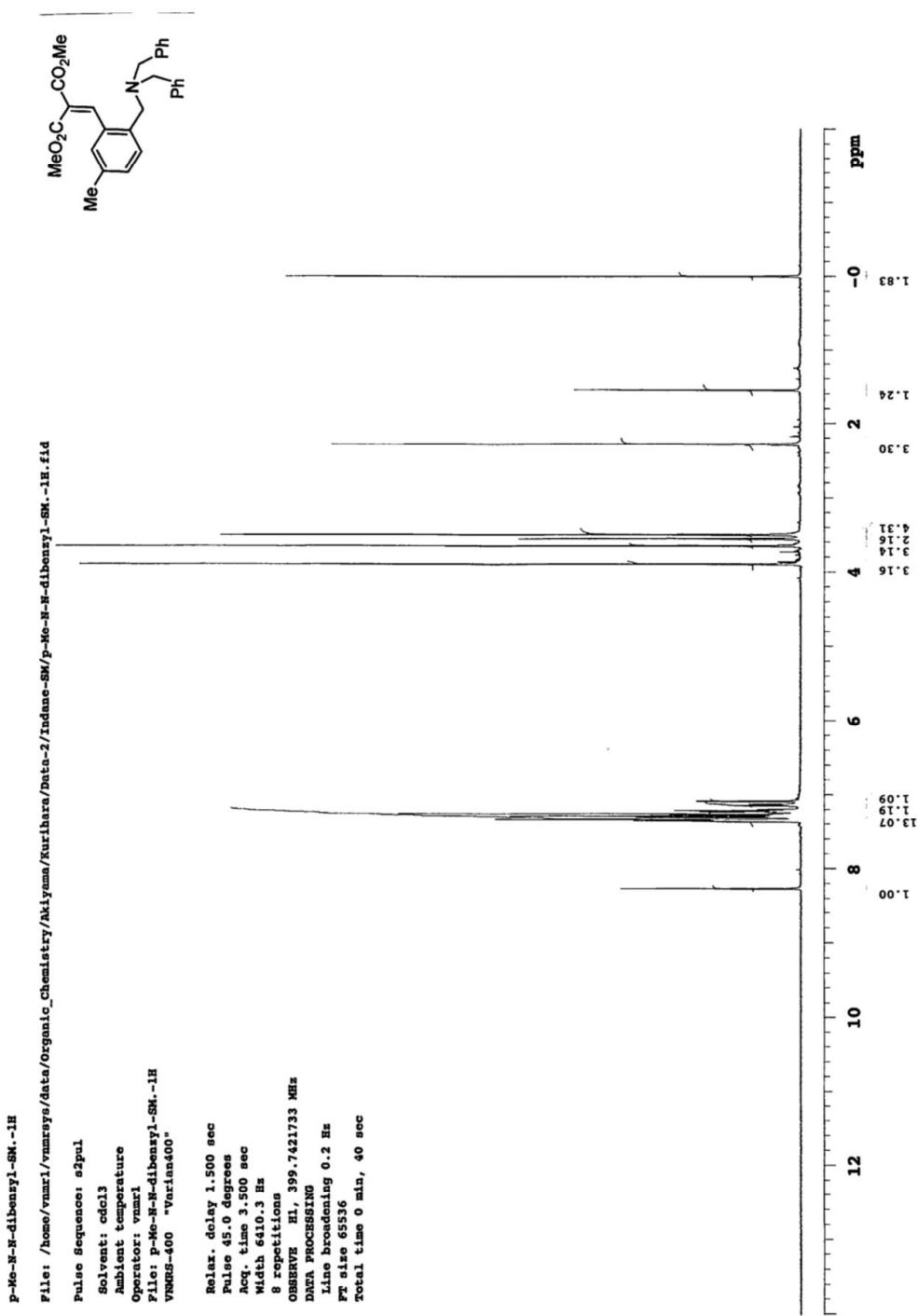
¹H NMR spectrum of **s10**.



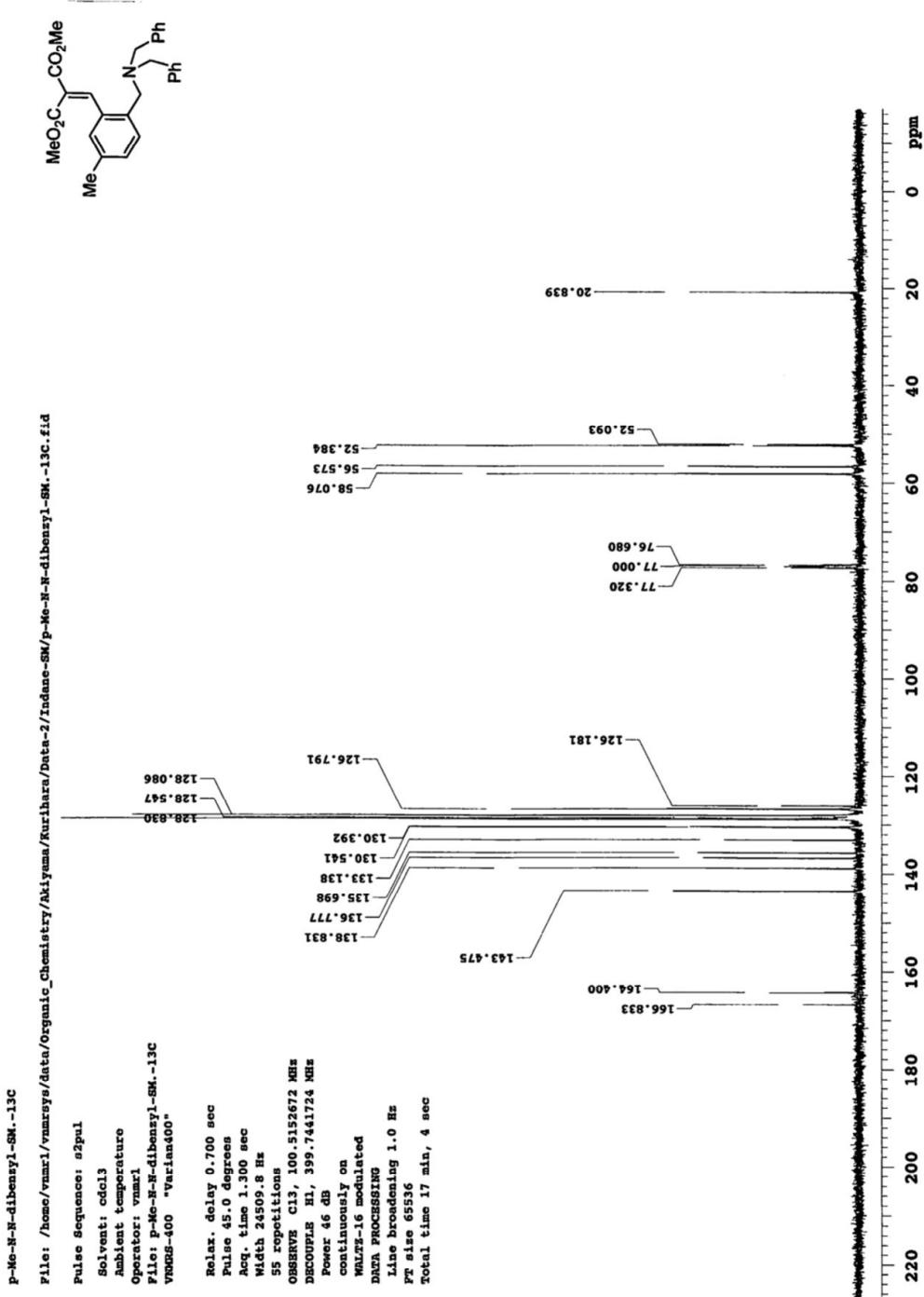
^{13}C NMR spectrum of **s10**.



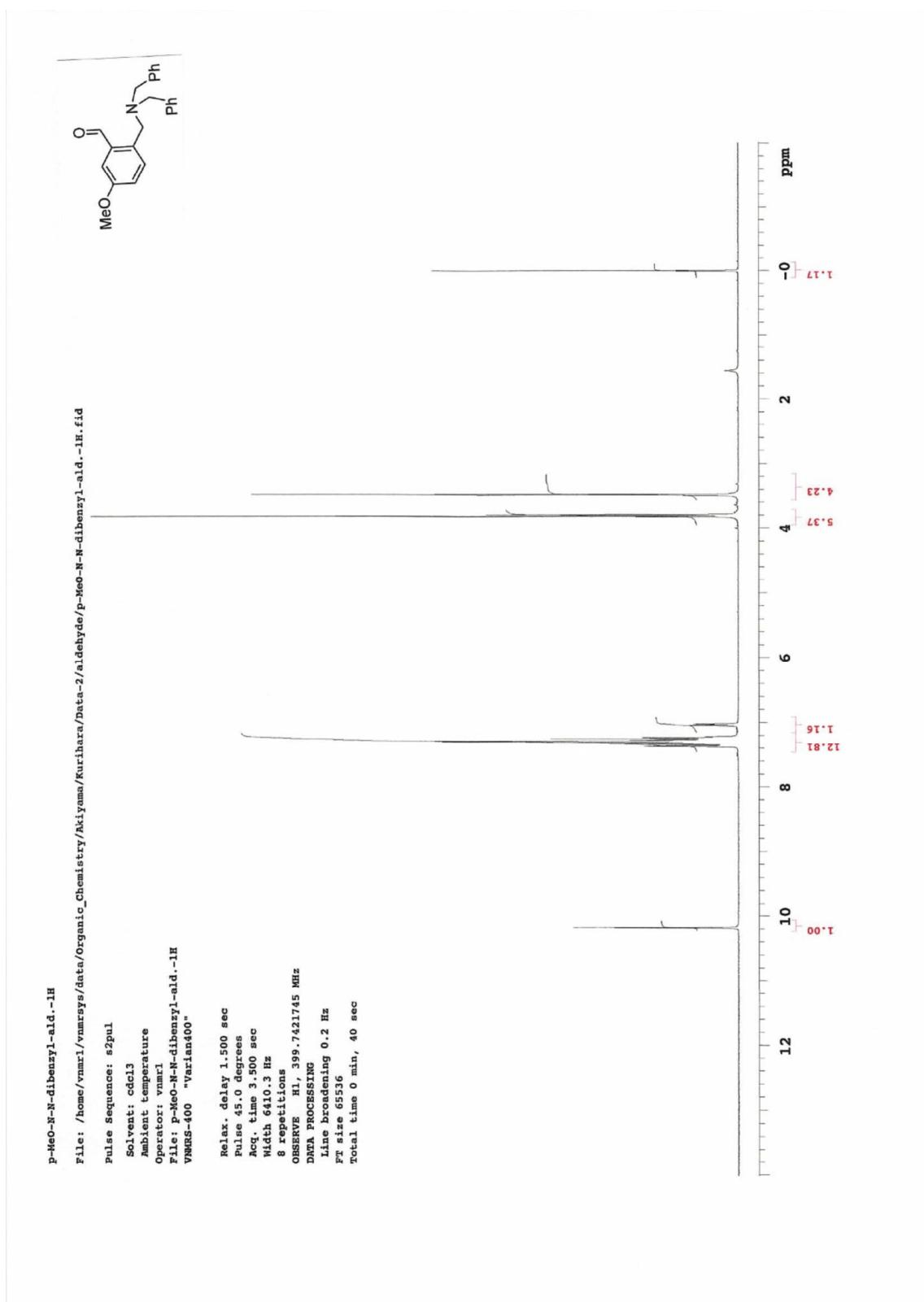
¹H NMR spectrum of **3j**.



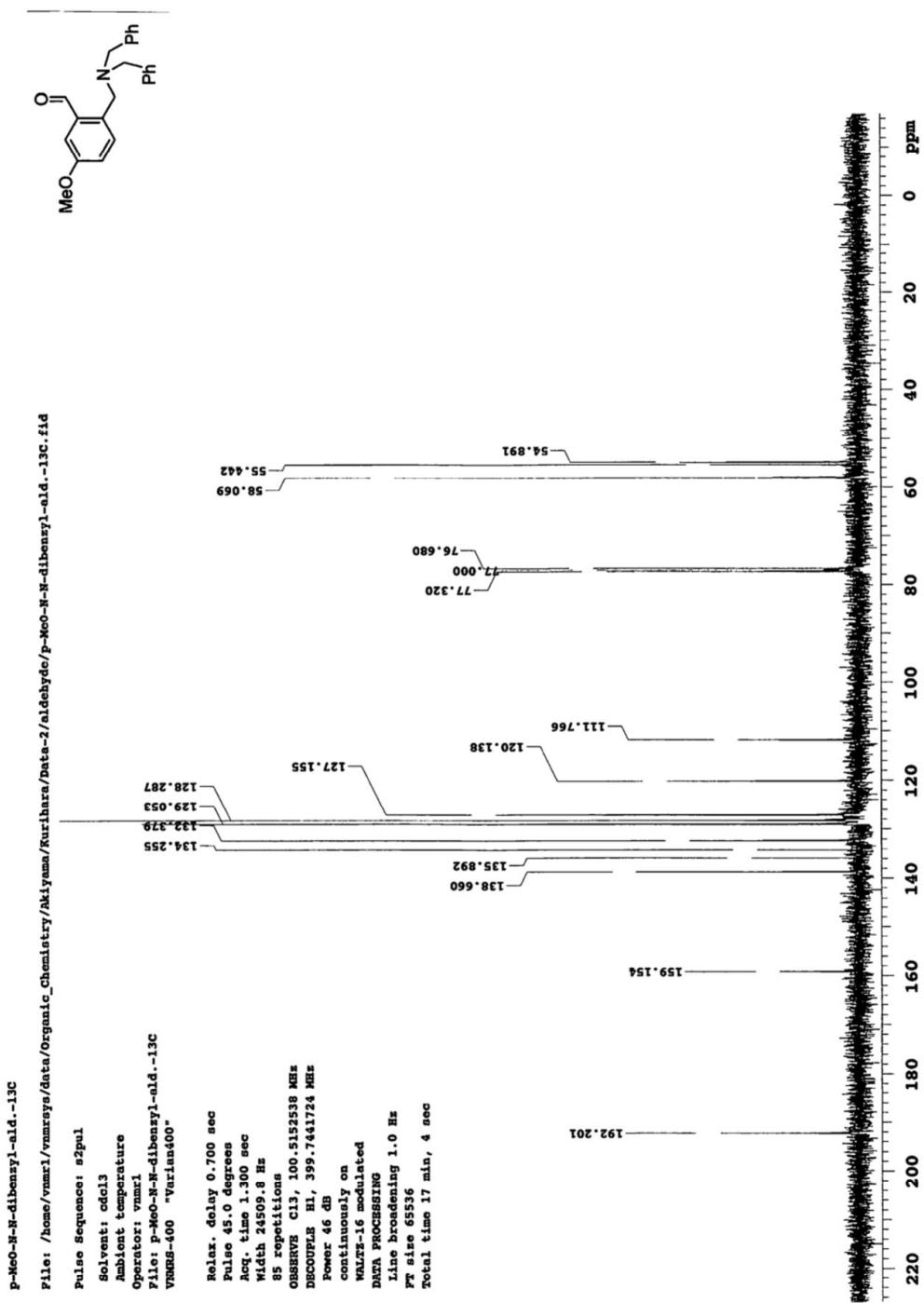
¹³C NMR spectrum of **3j**.



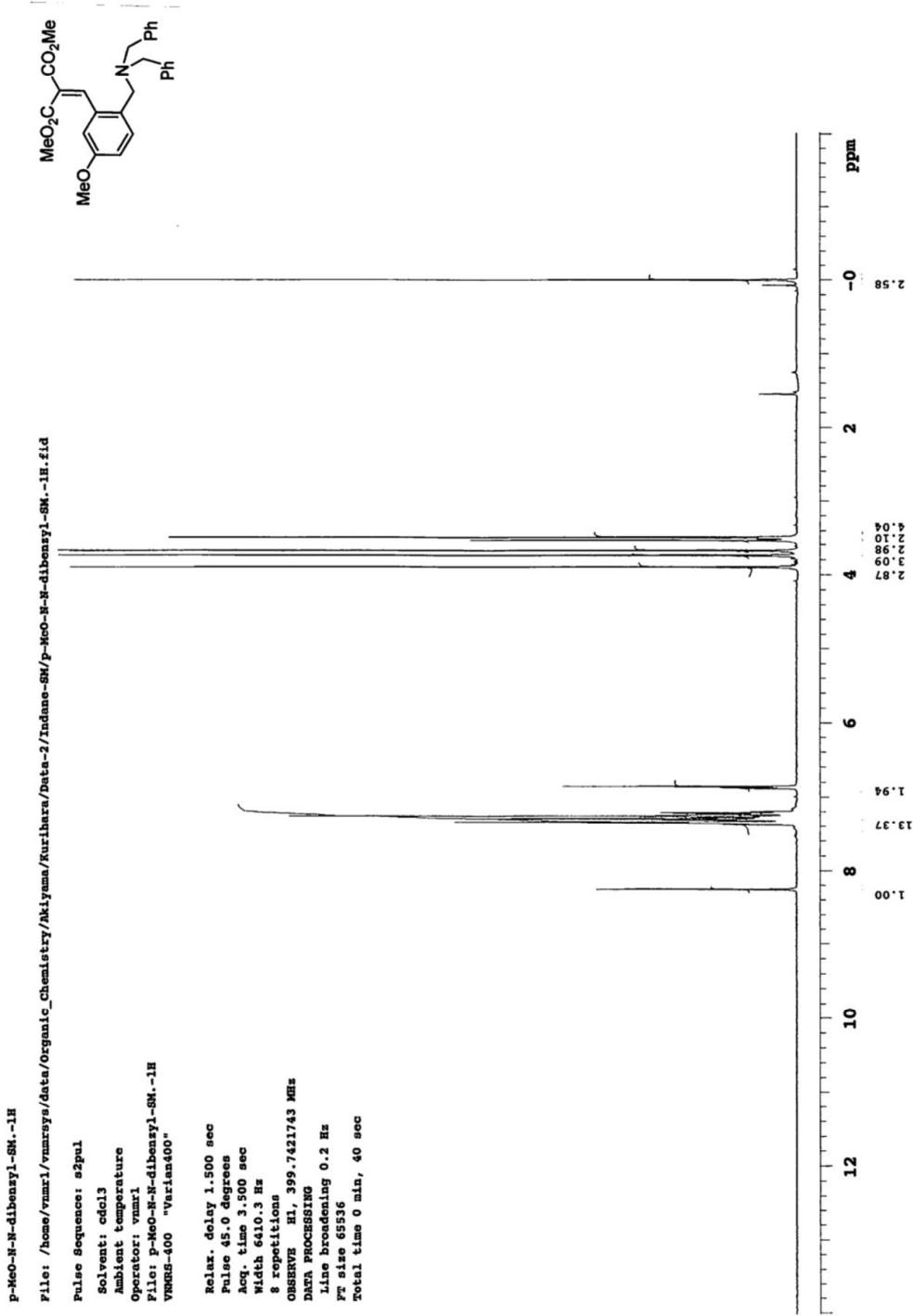
¹H NMR spectrum of **s11**.



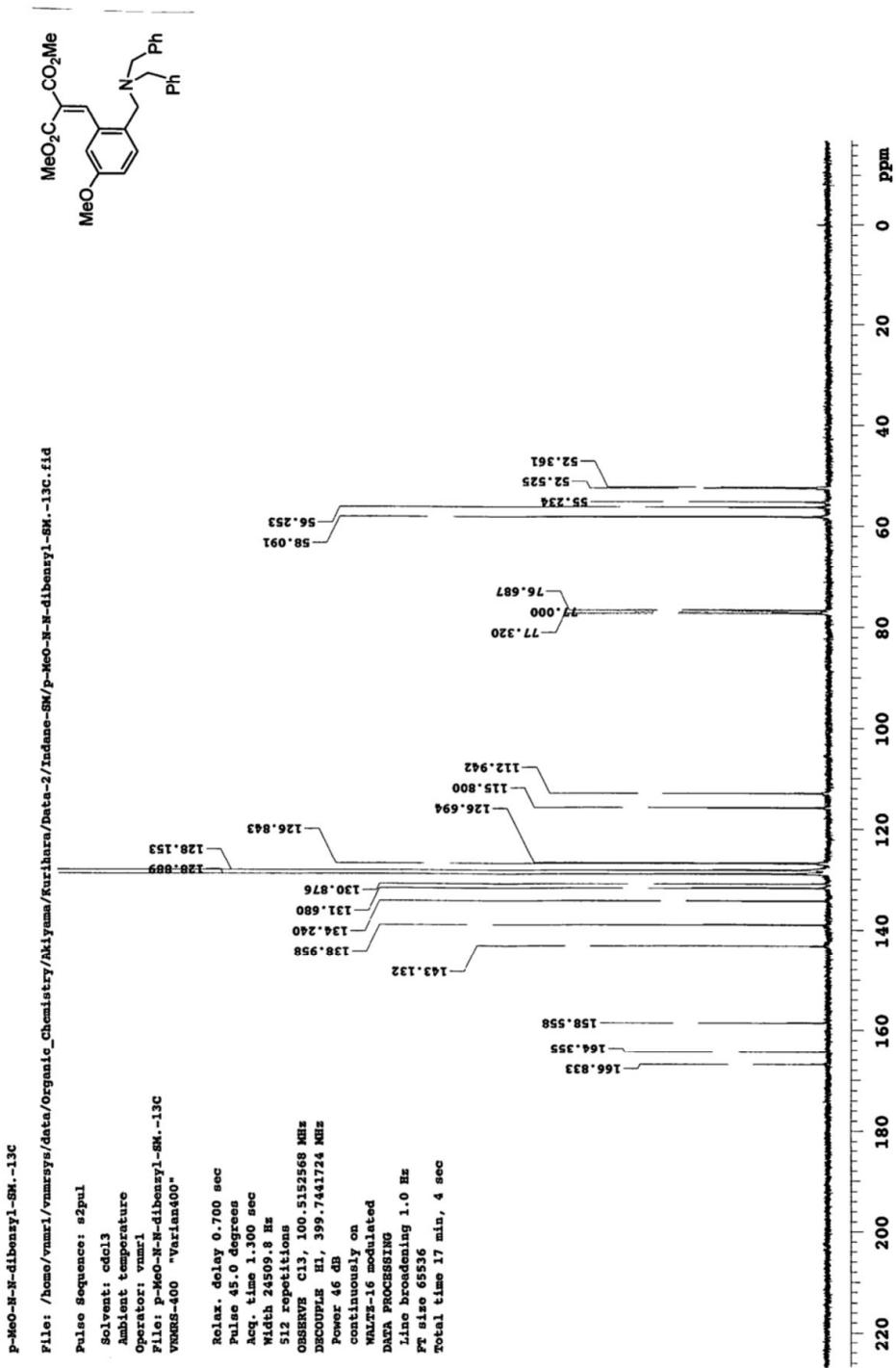
^{13}C NMR spectrum of **s11**.



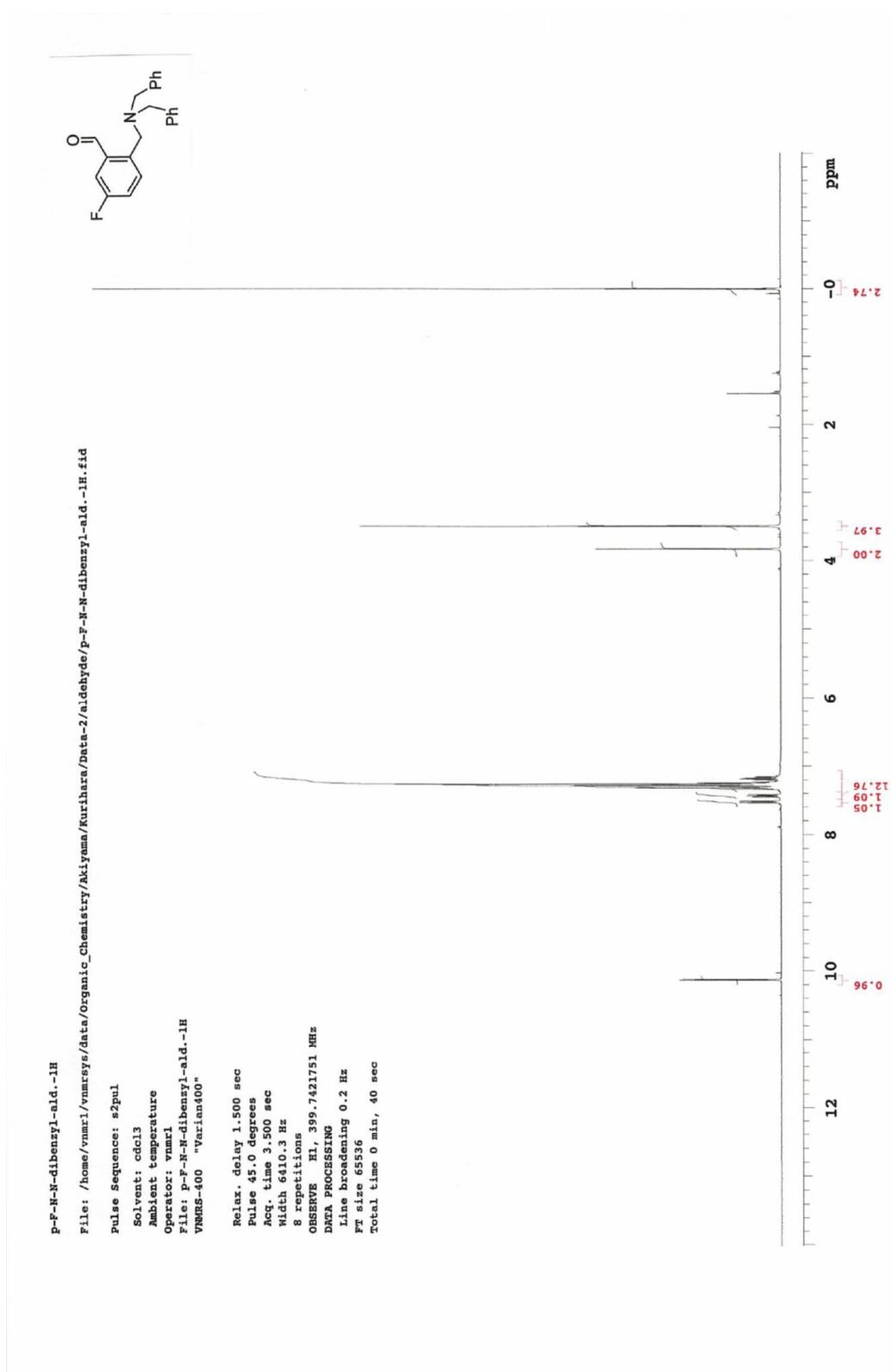
¹H NMR spectrum of **3k**.



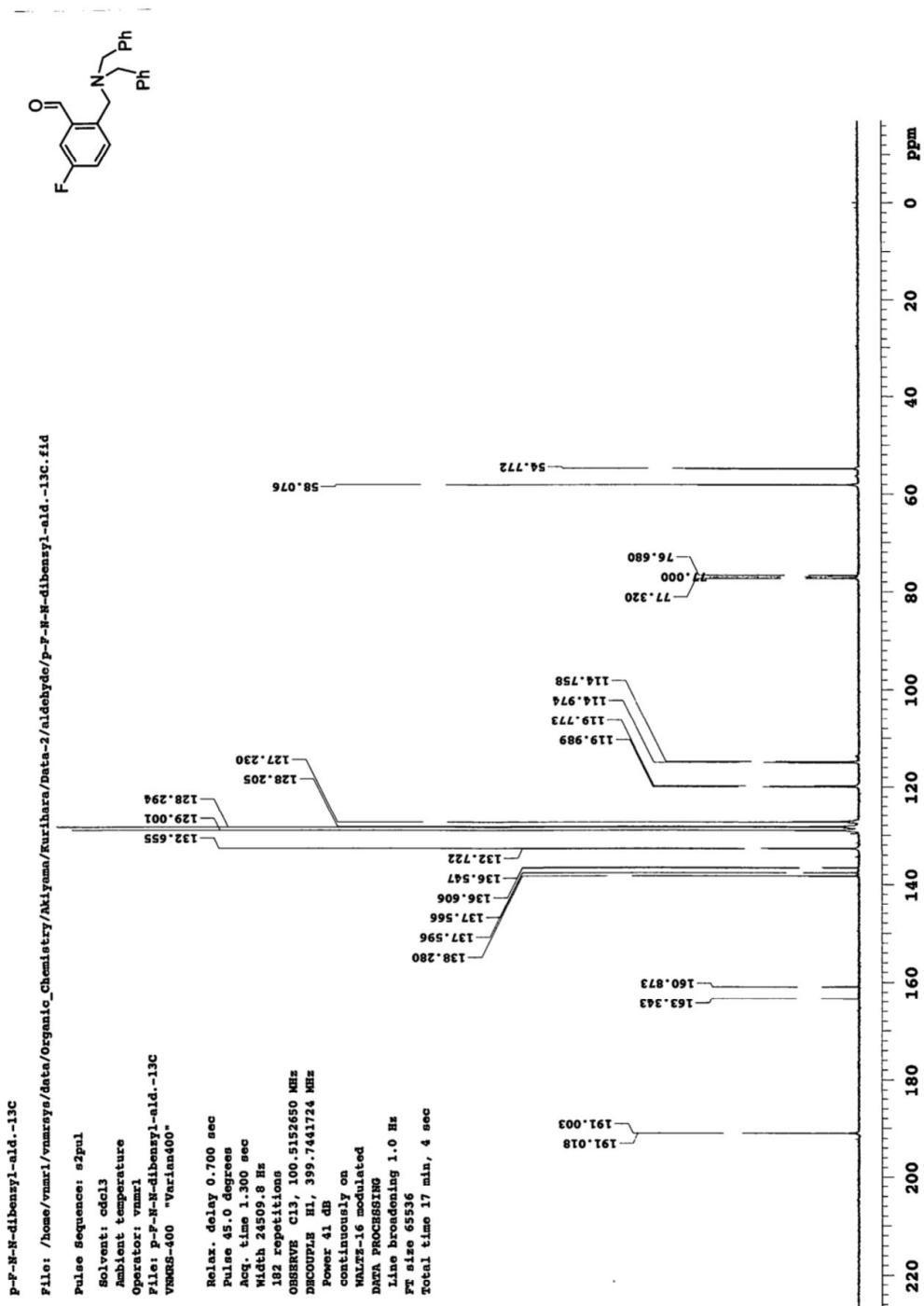
¹³C NMR spectrum of **3k**.



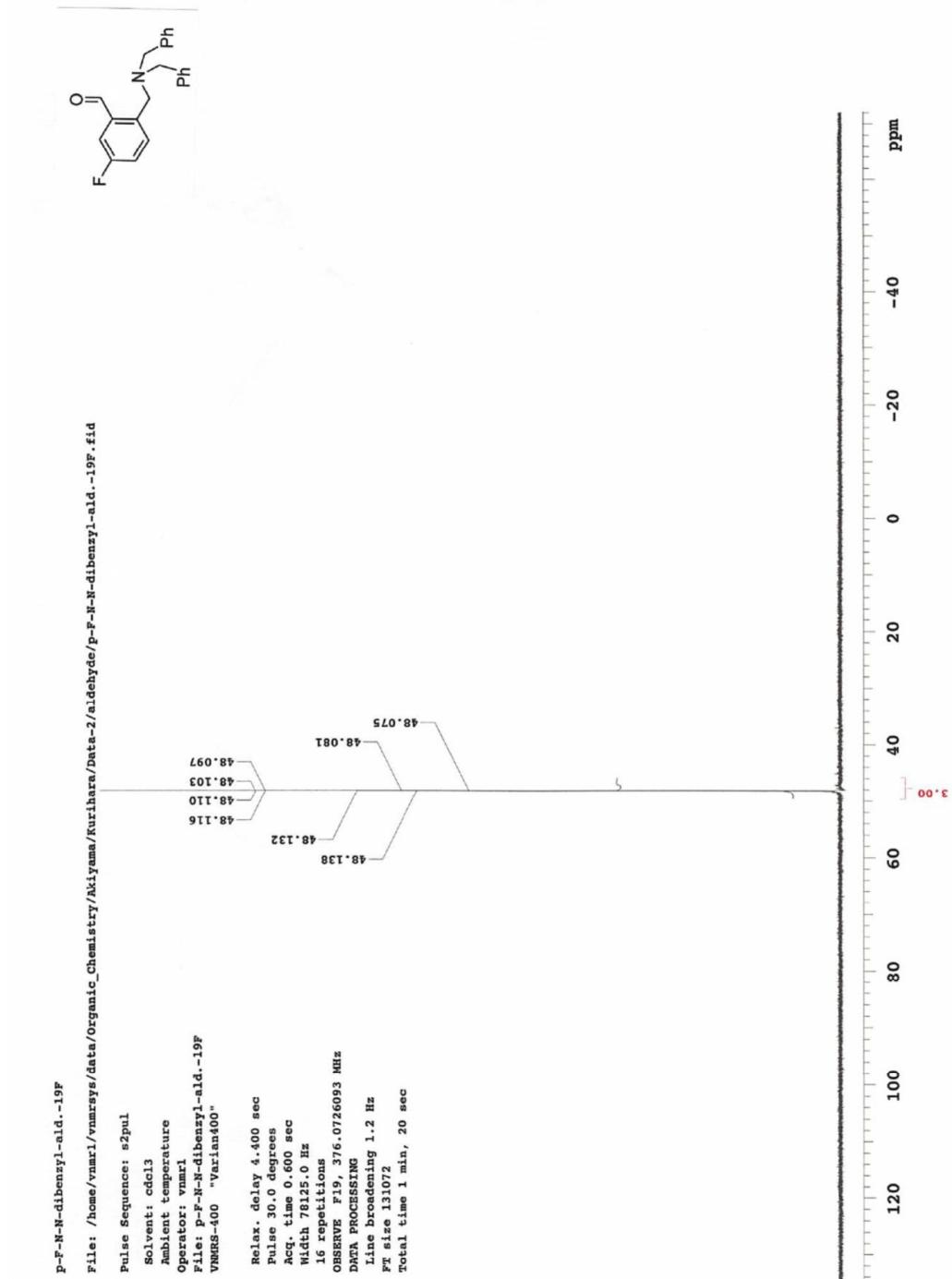
¹H NMR spectrum of s12.



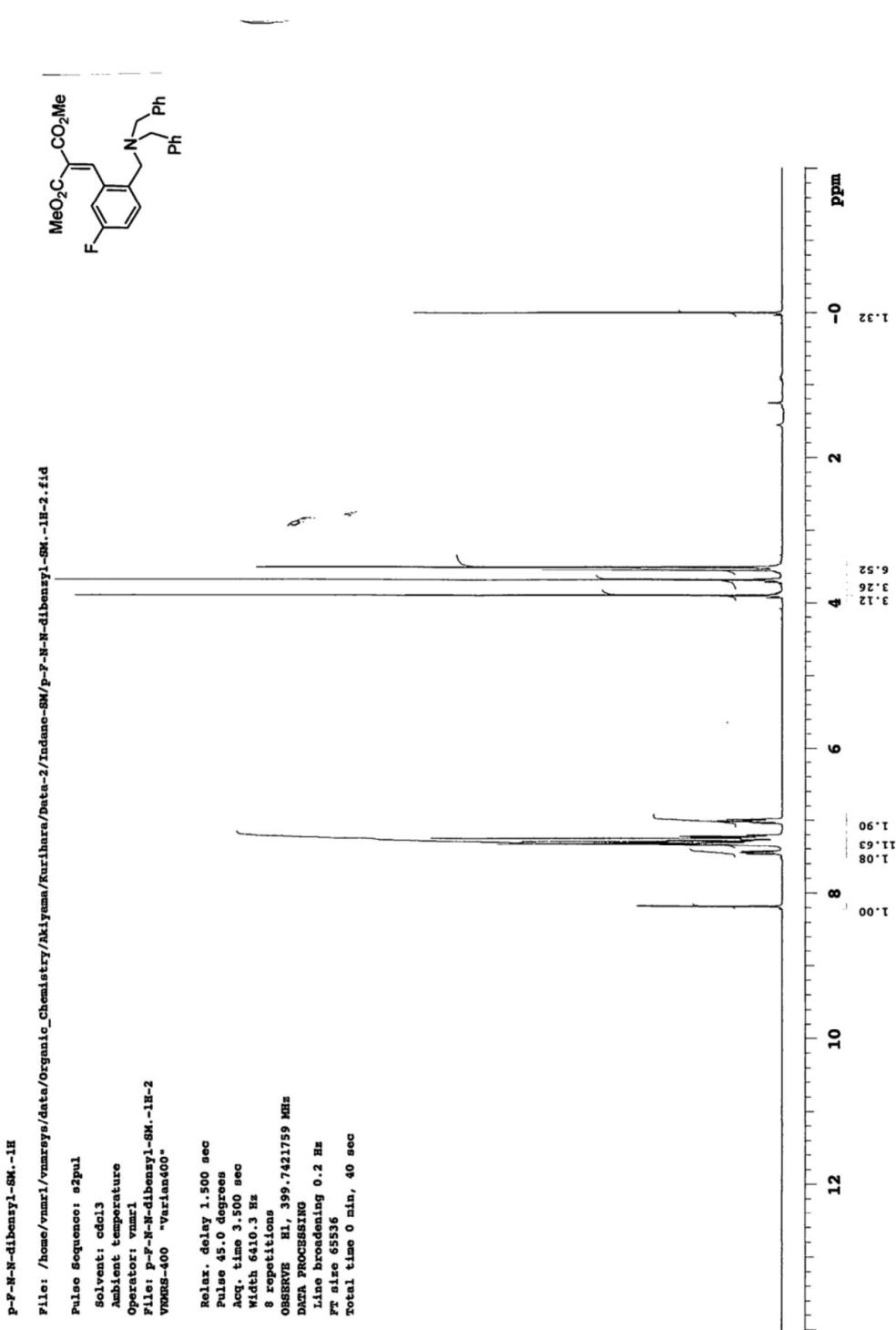
^{13}C NMR spectrum of s12.



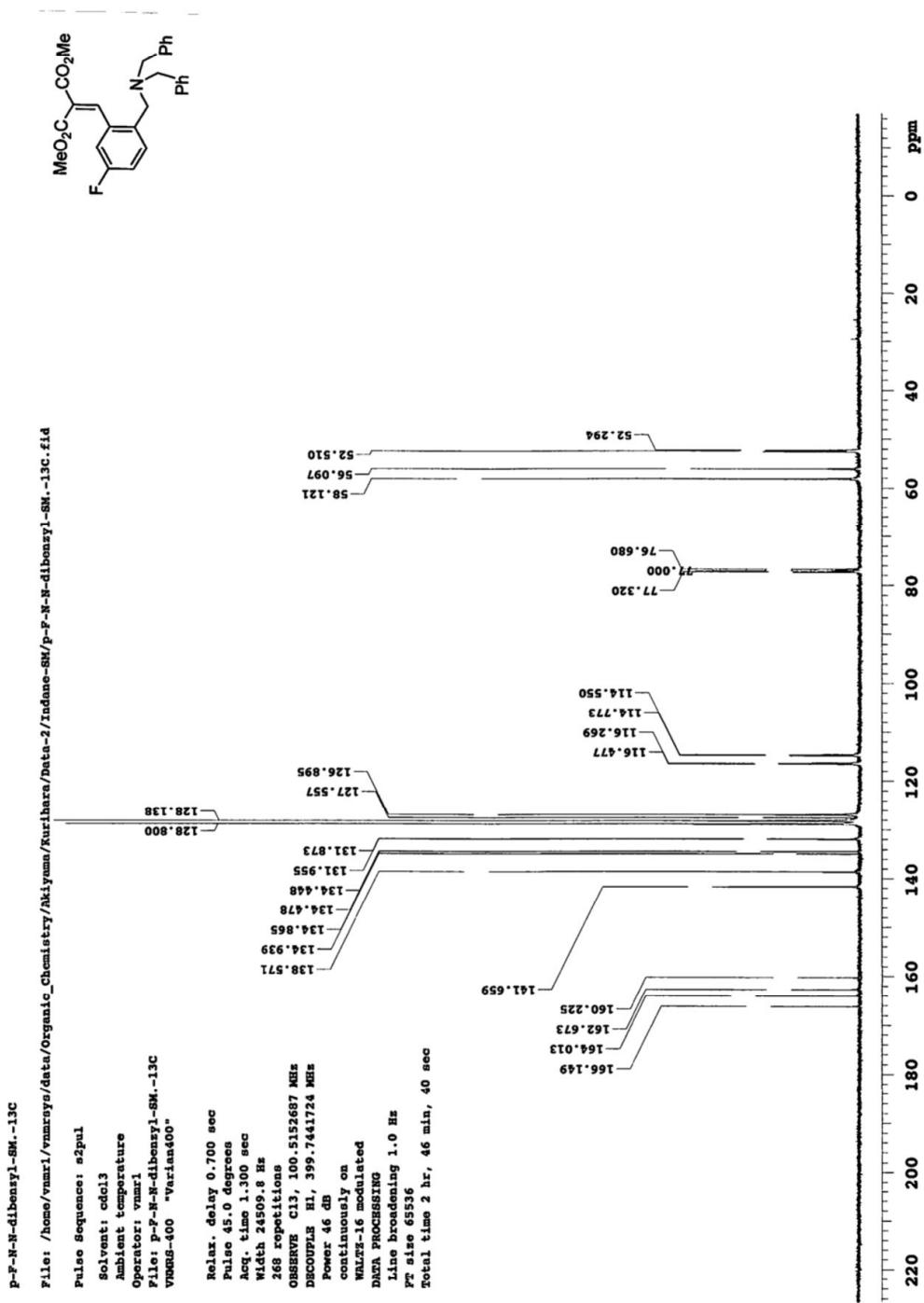
¹⁹F NMR spectrum of s13.



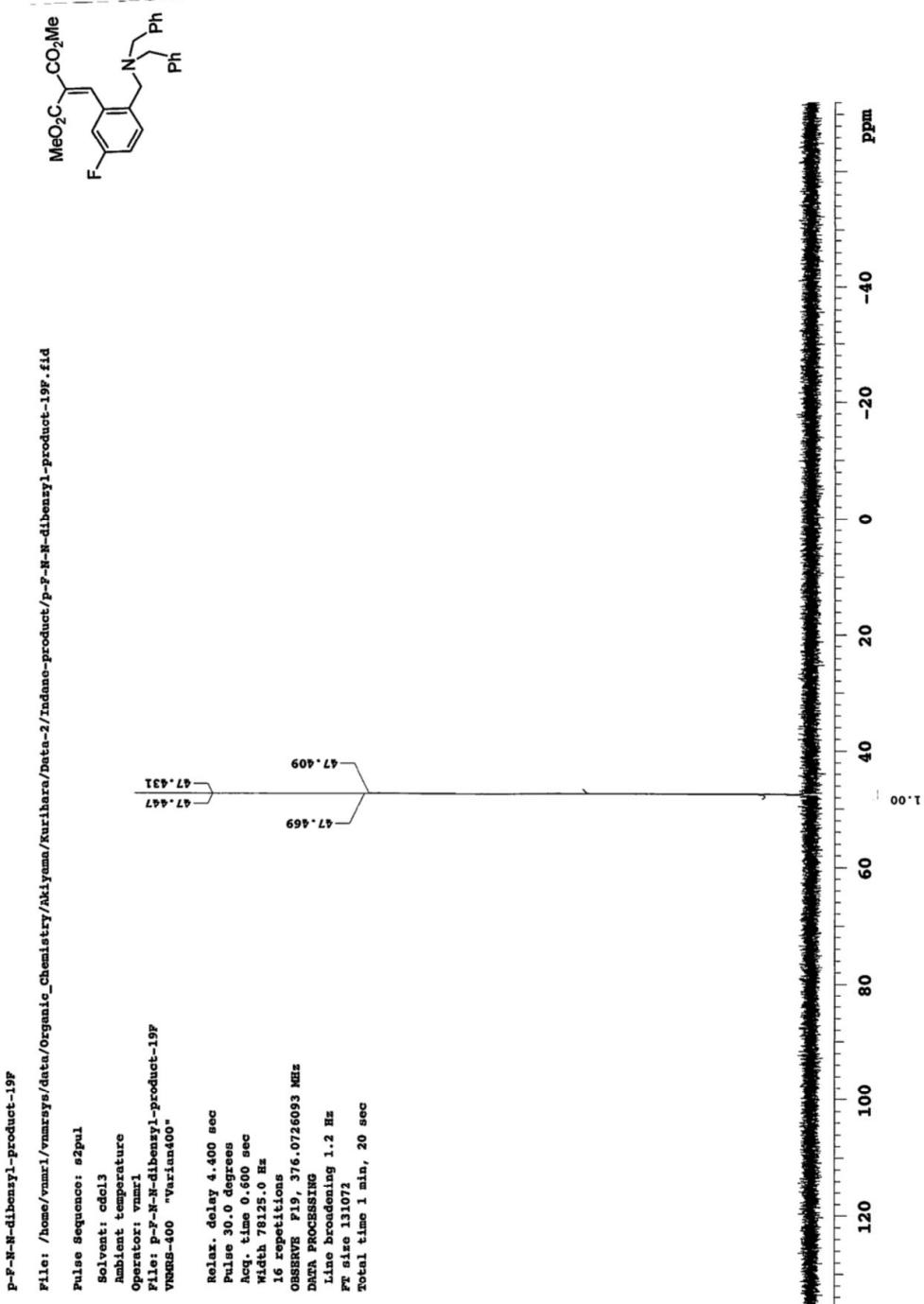
¹H NMR spectrum of **3l**.



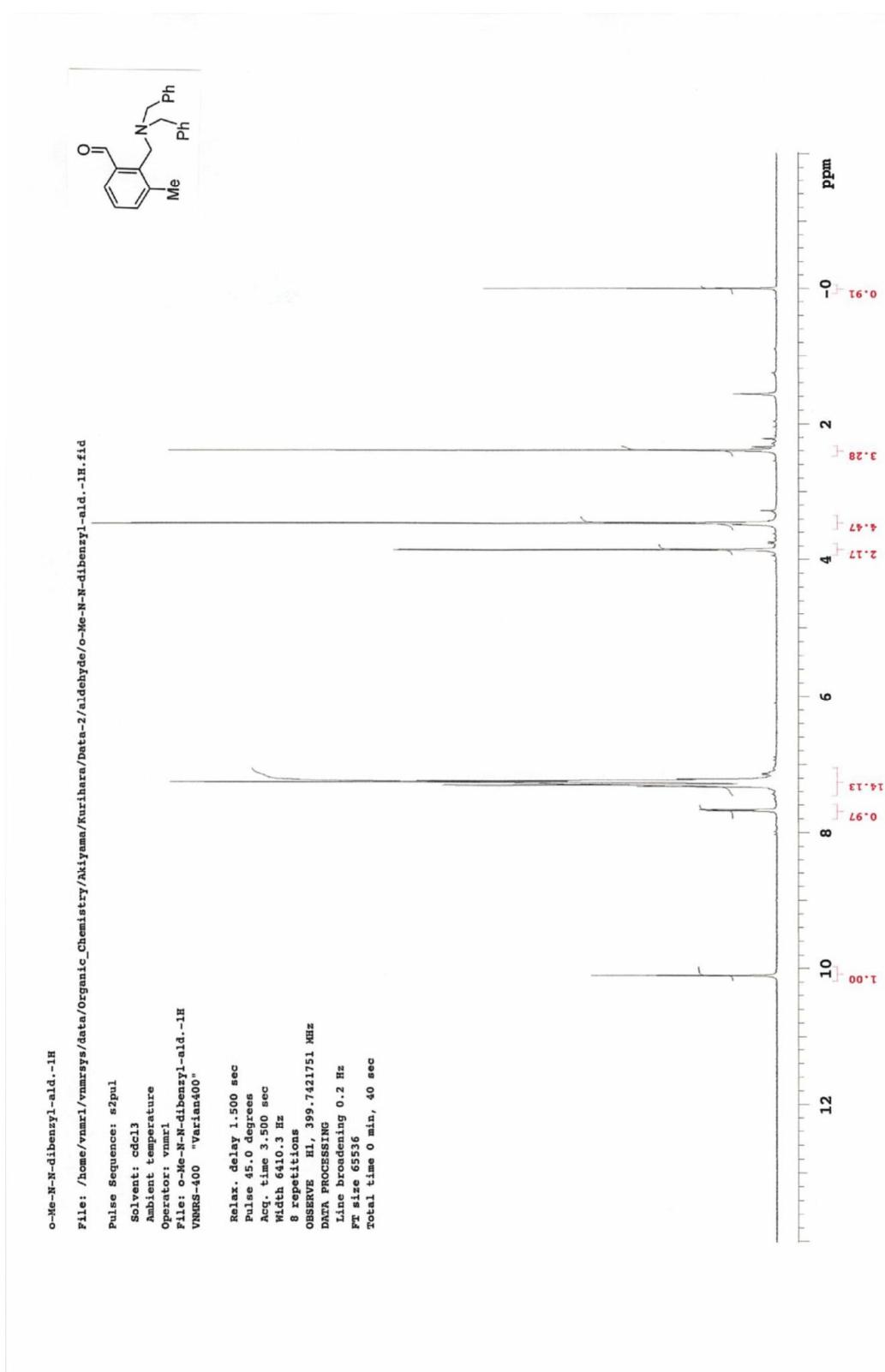
¹³C NMR spectrum of **3l**.



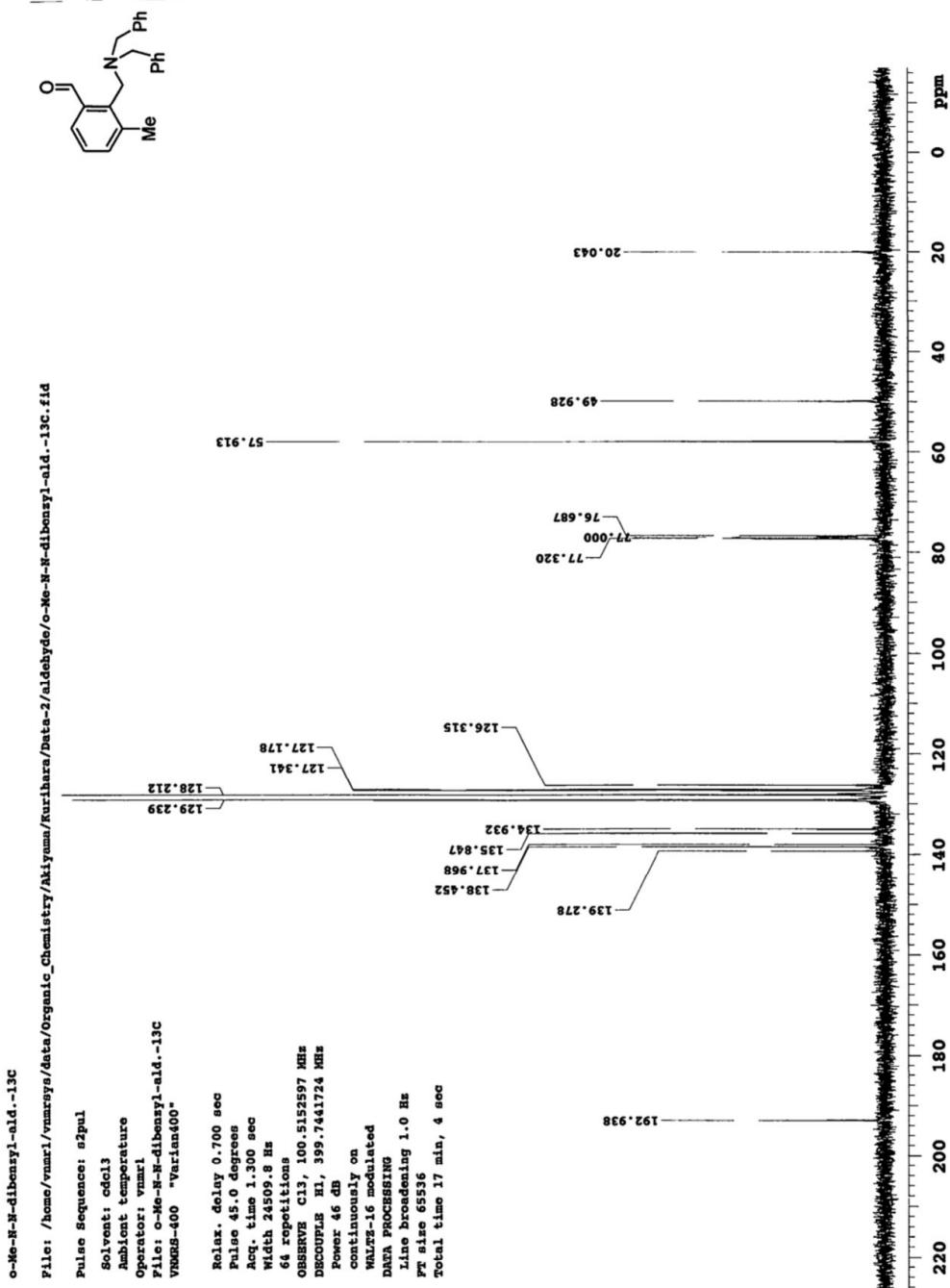
¹⁹F NMR spectrum of **3l**.



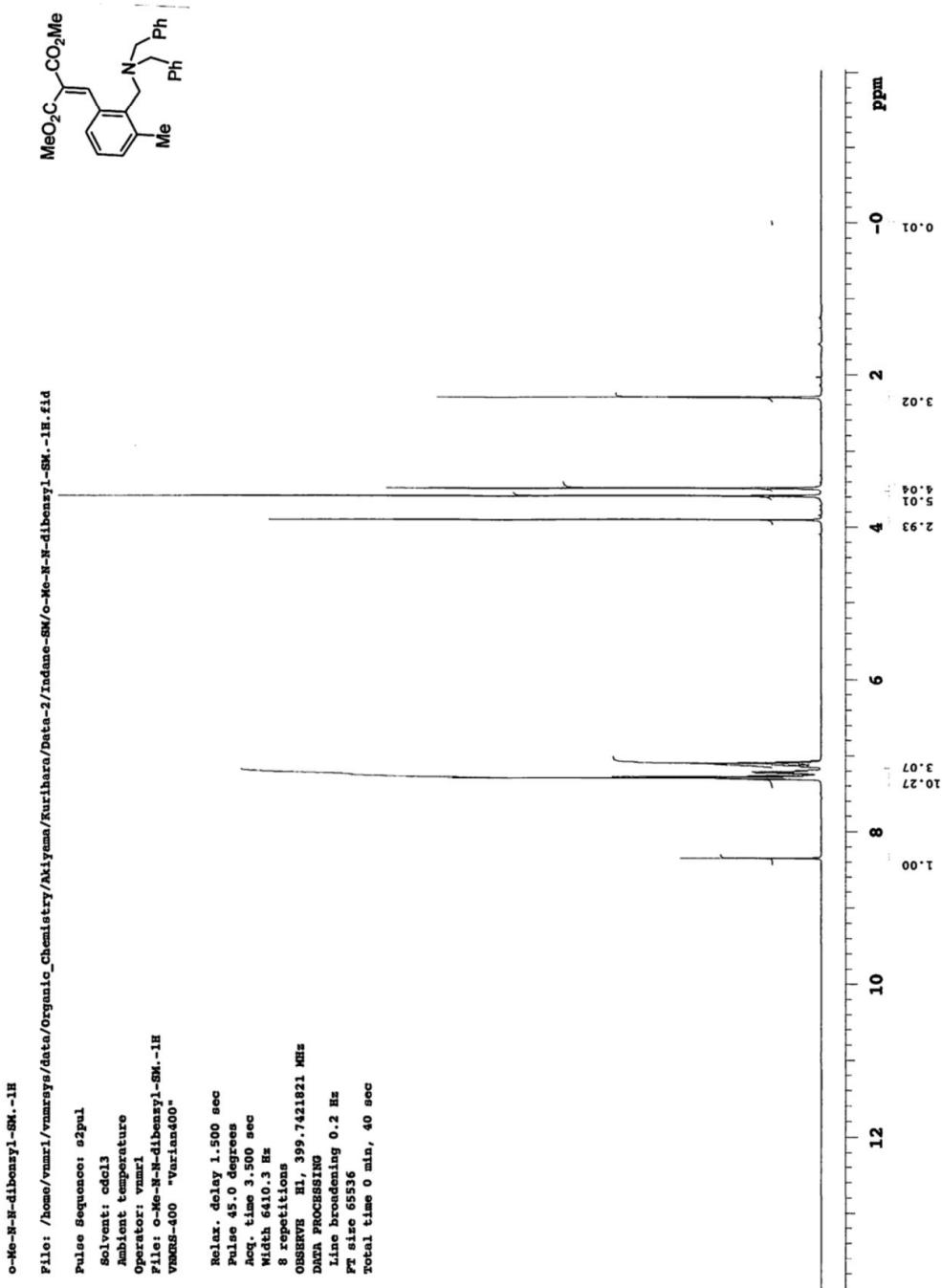
¹H NMR spectrum of s13



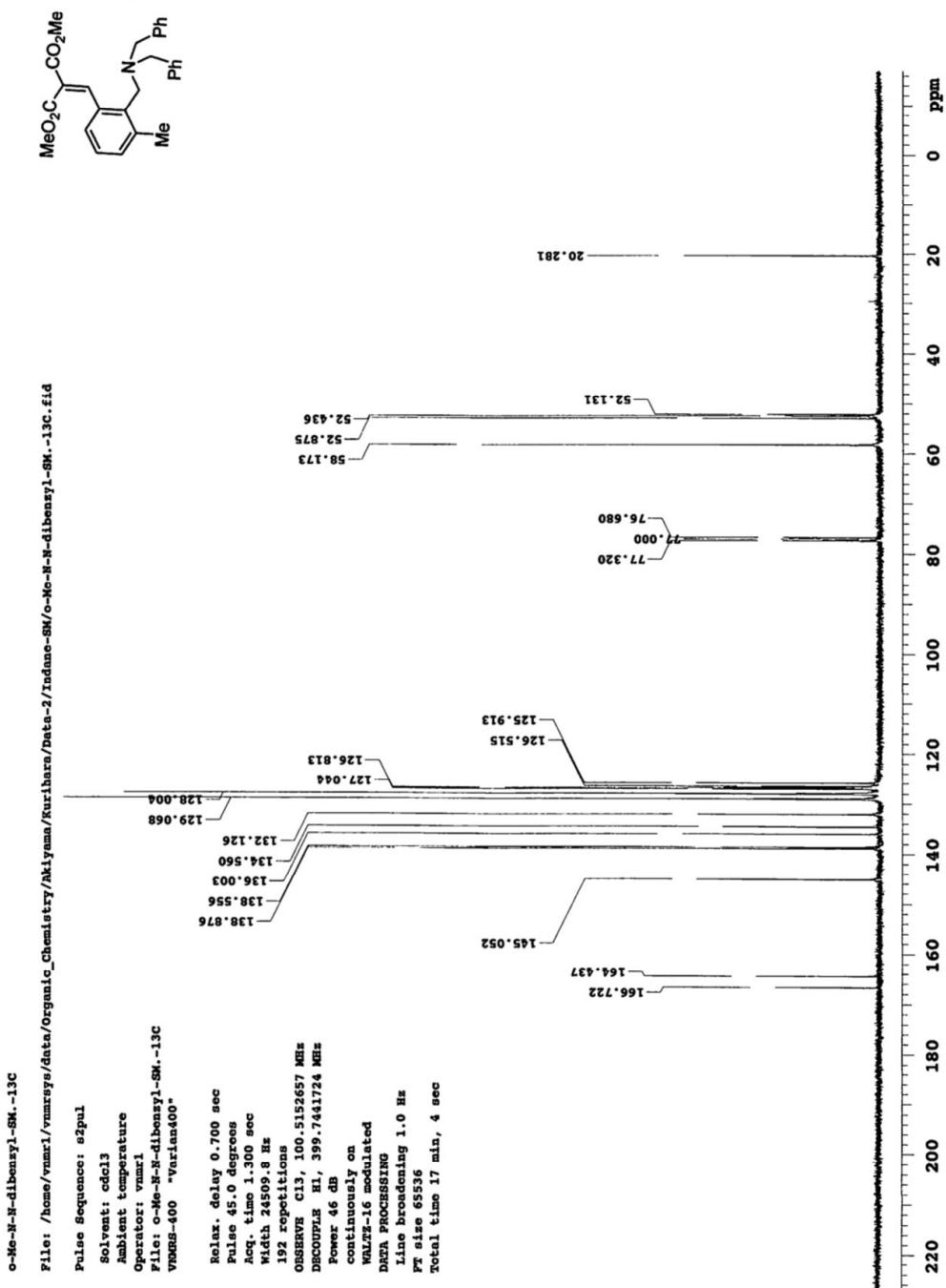
^{13}C NMR spectrum of s13.



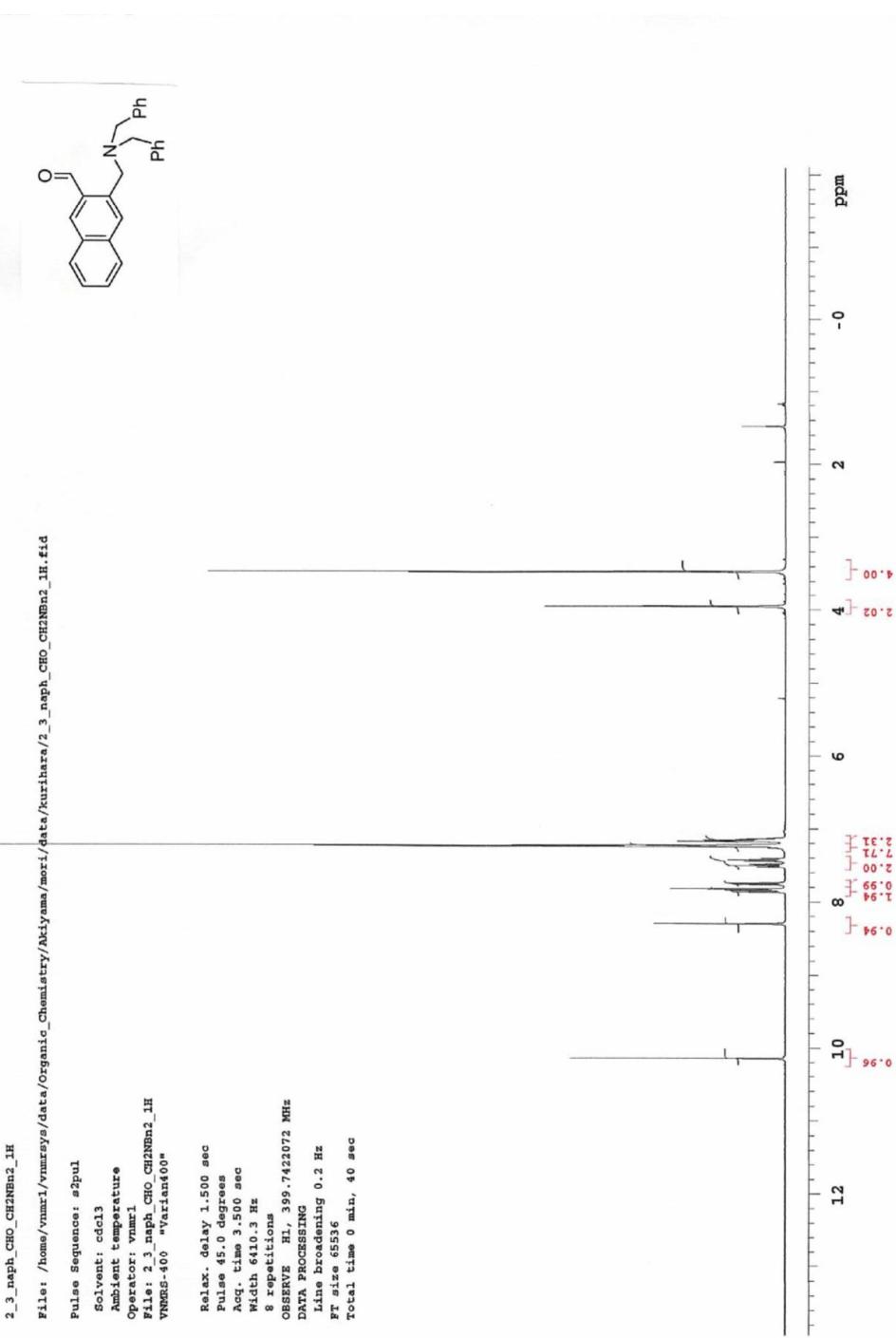
¹H NMR spectrum of **3m**.



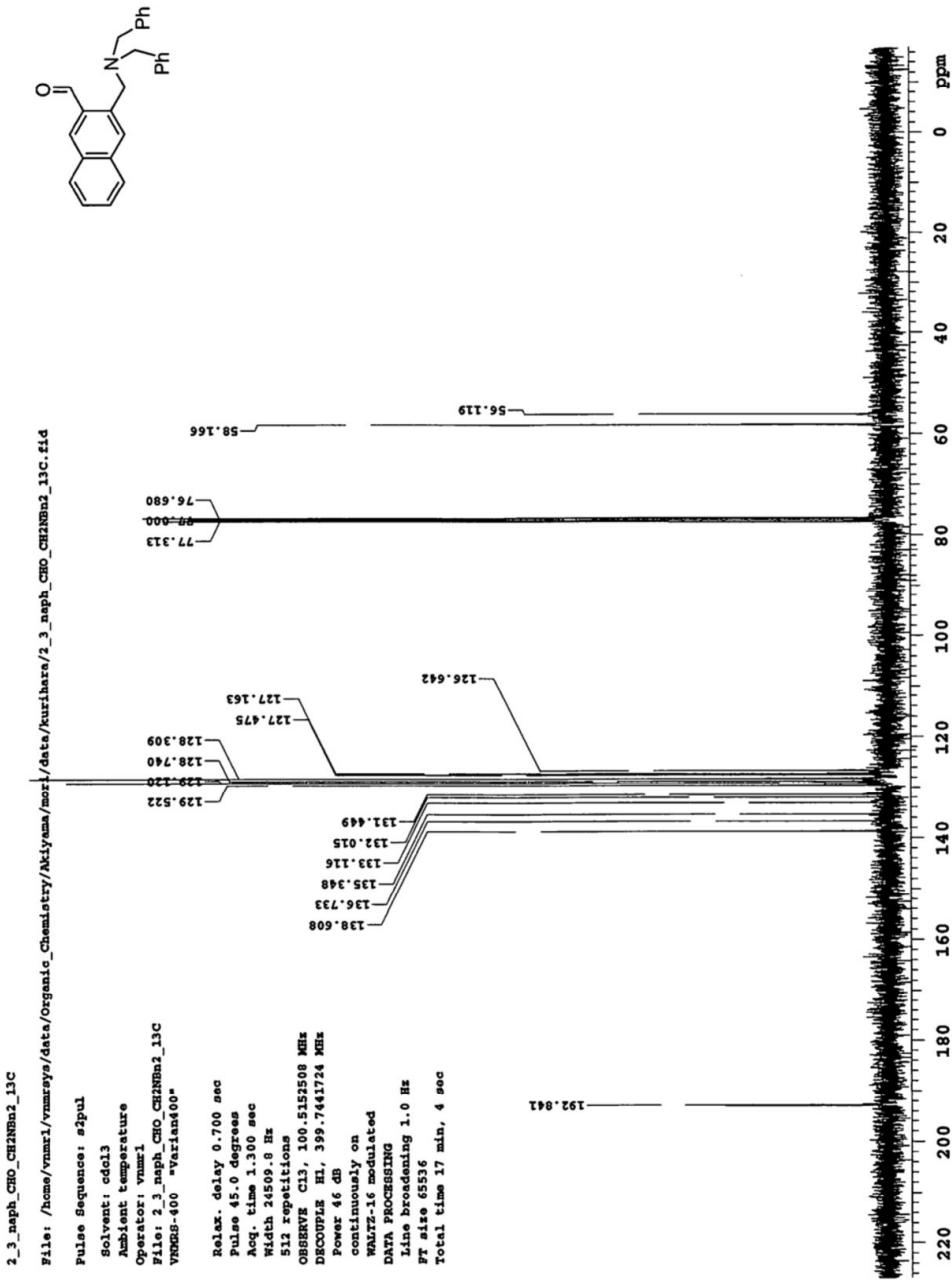
^{13}C NMR spectrum of **3m**.



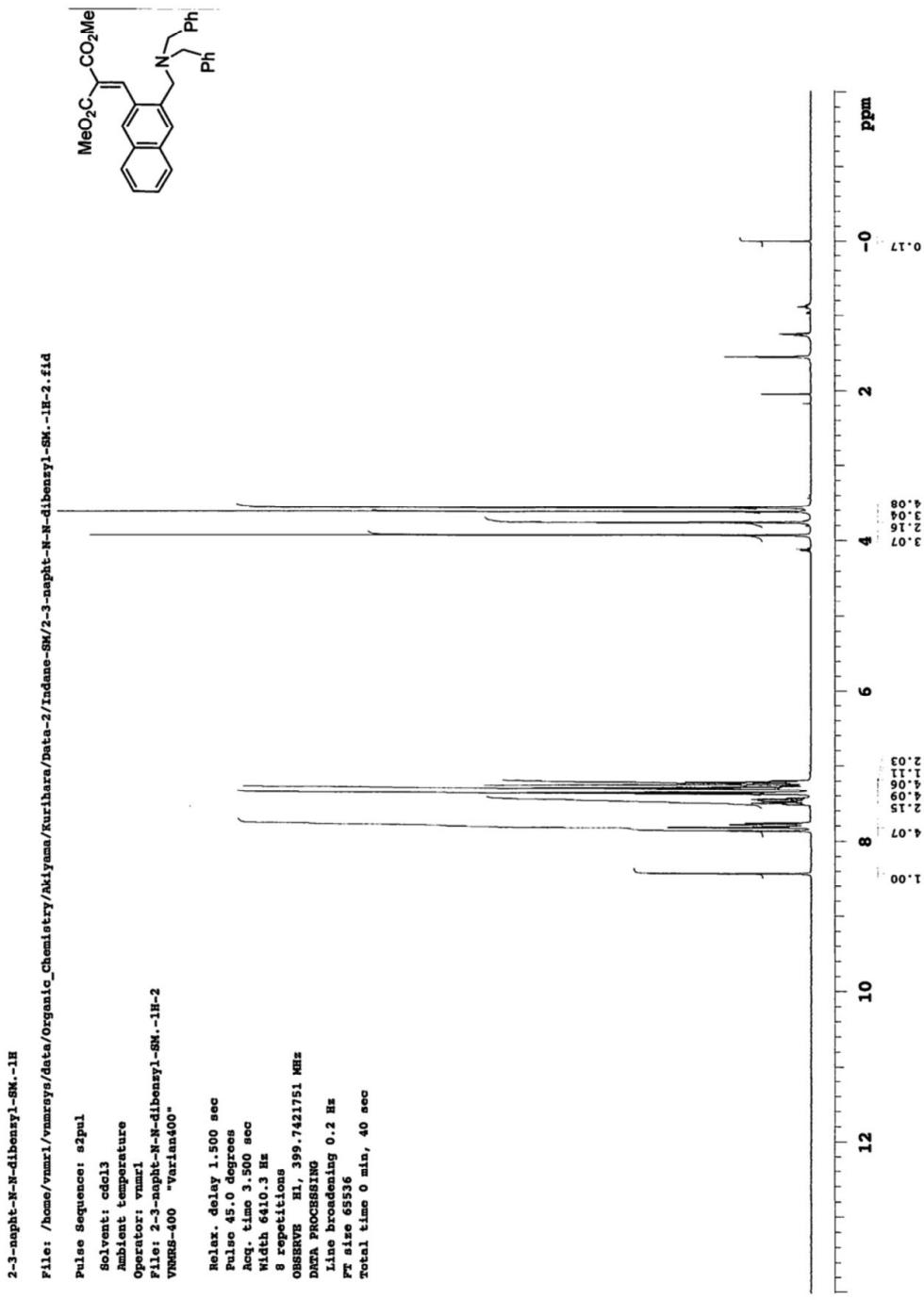
¹H NMR spectrum of s14.



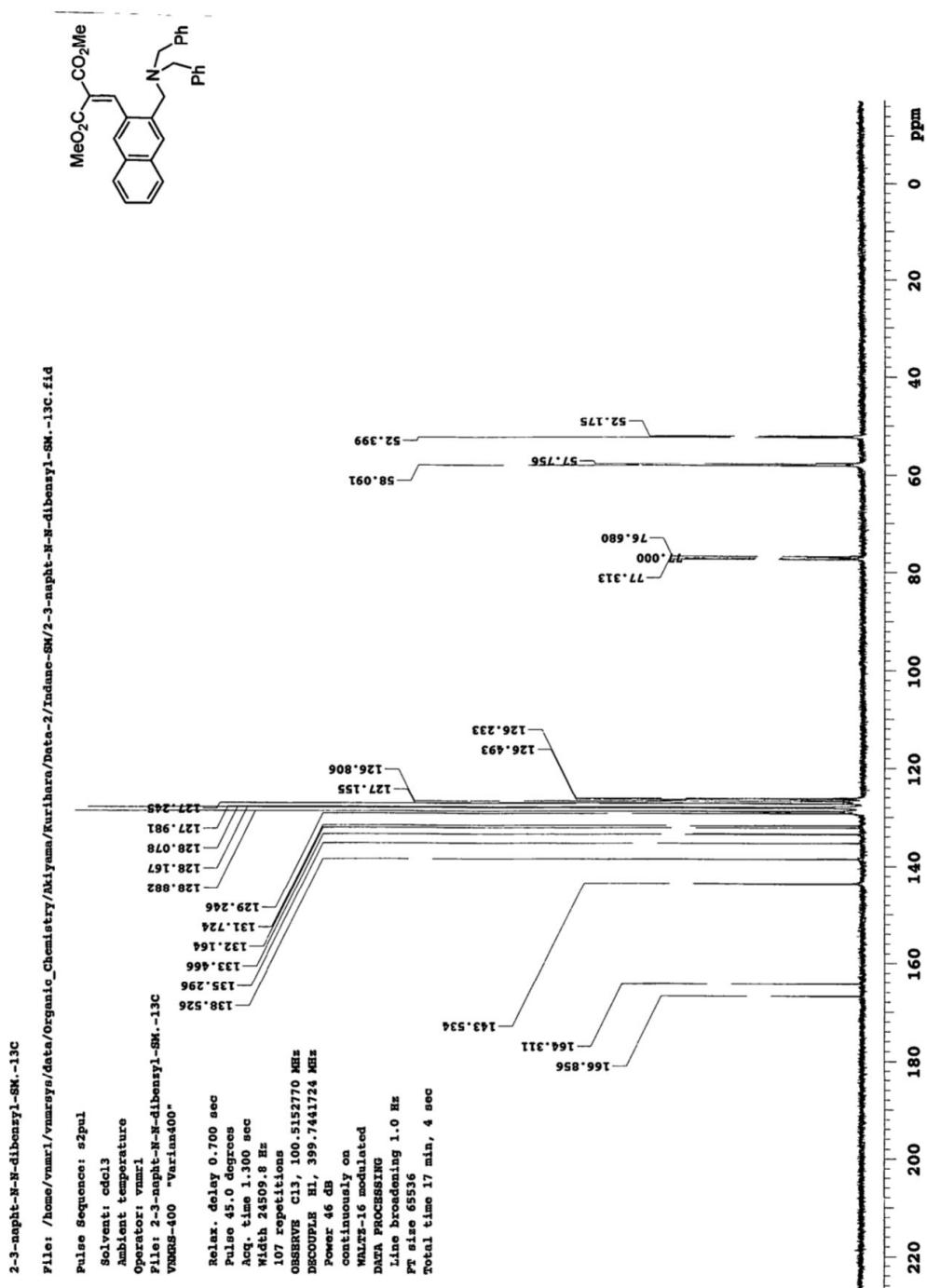
^{13}C NMR spectrum of **s14**.



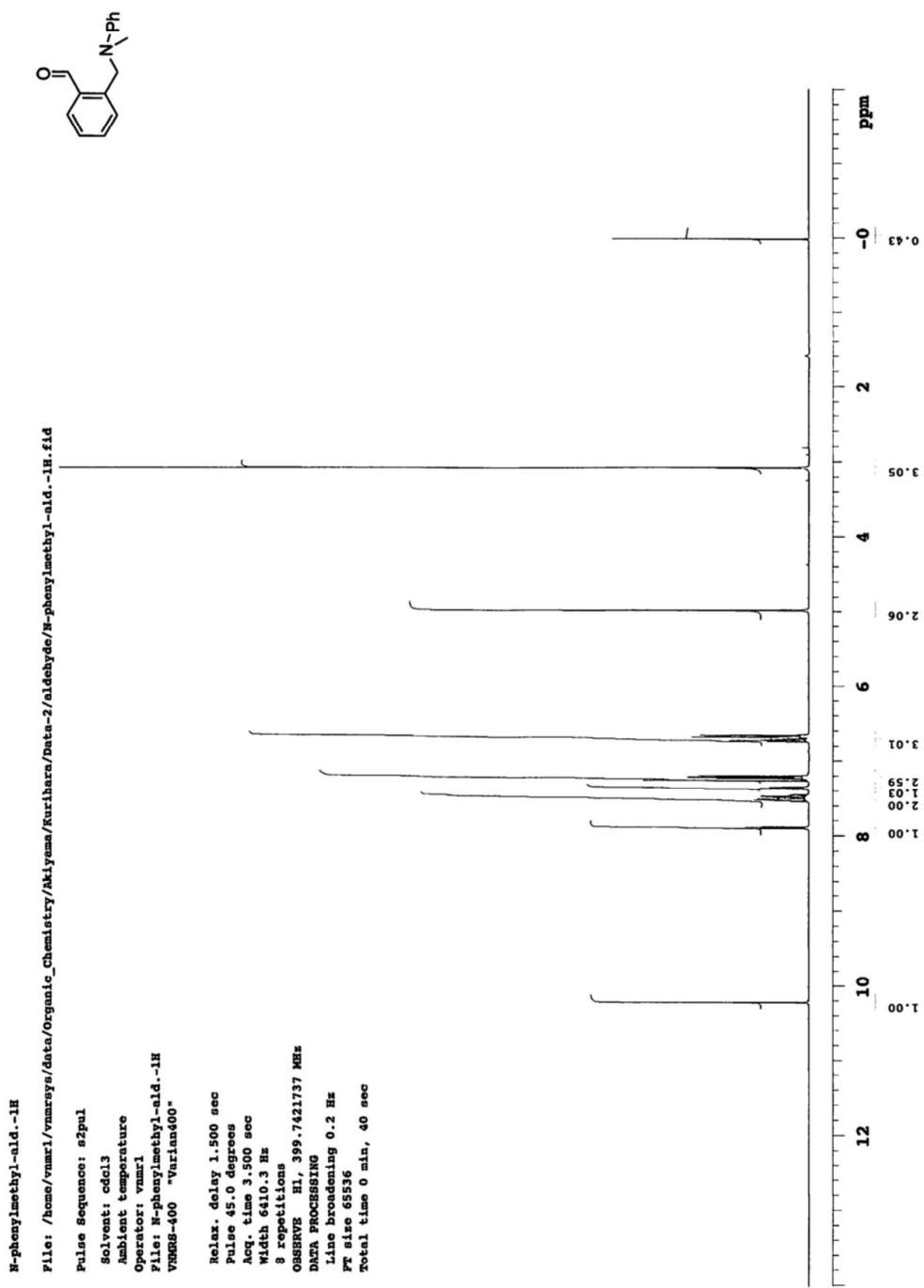
¹H NMR spectrum of **3n**.



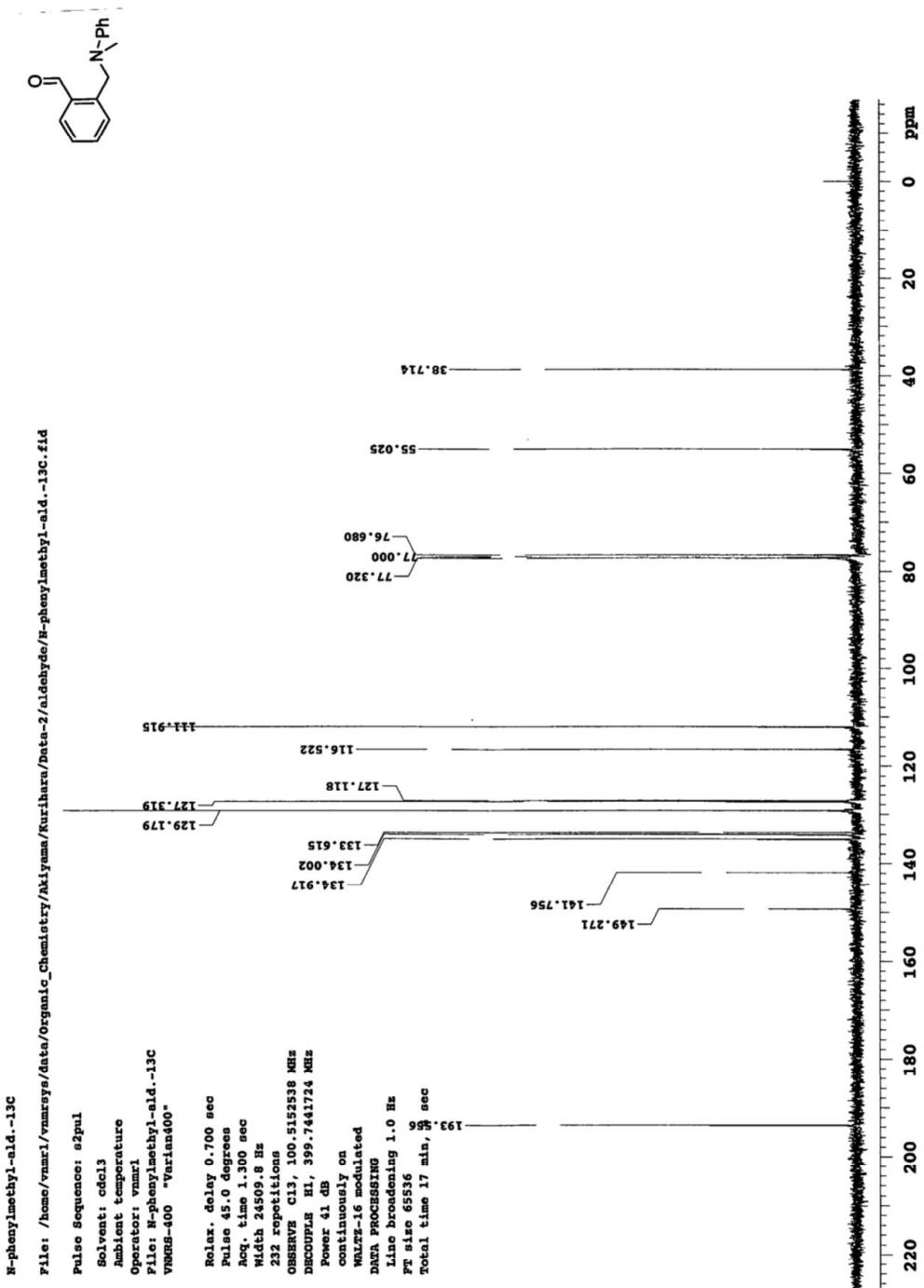
^{13}C NMR spectrum of **3n**.



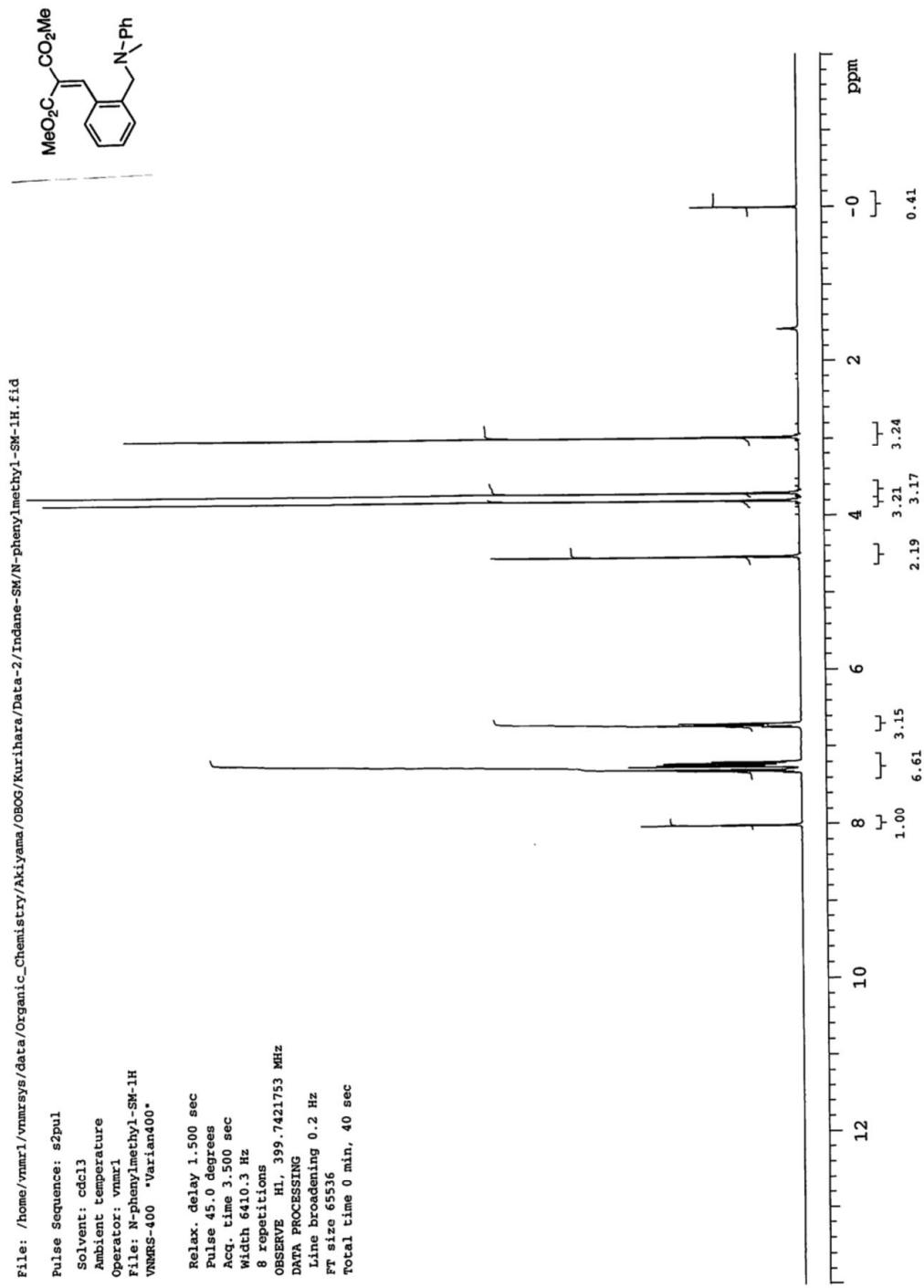
¹H NMR spectrum of s15.



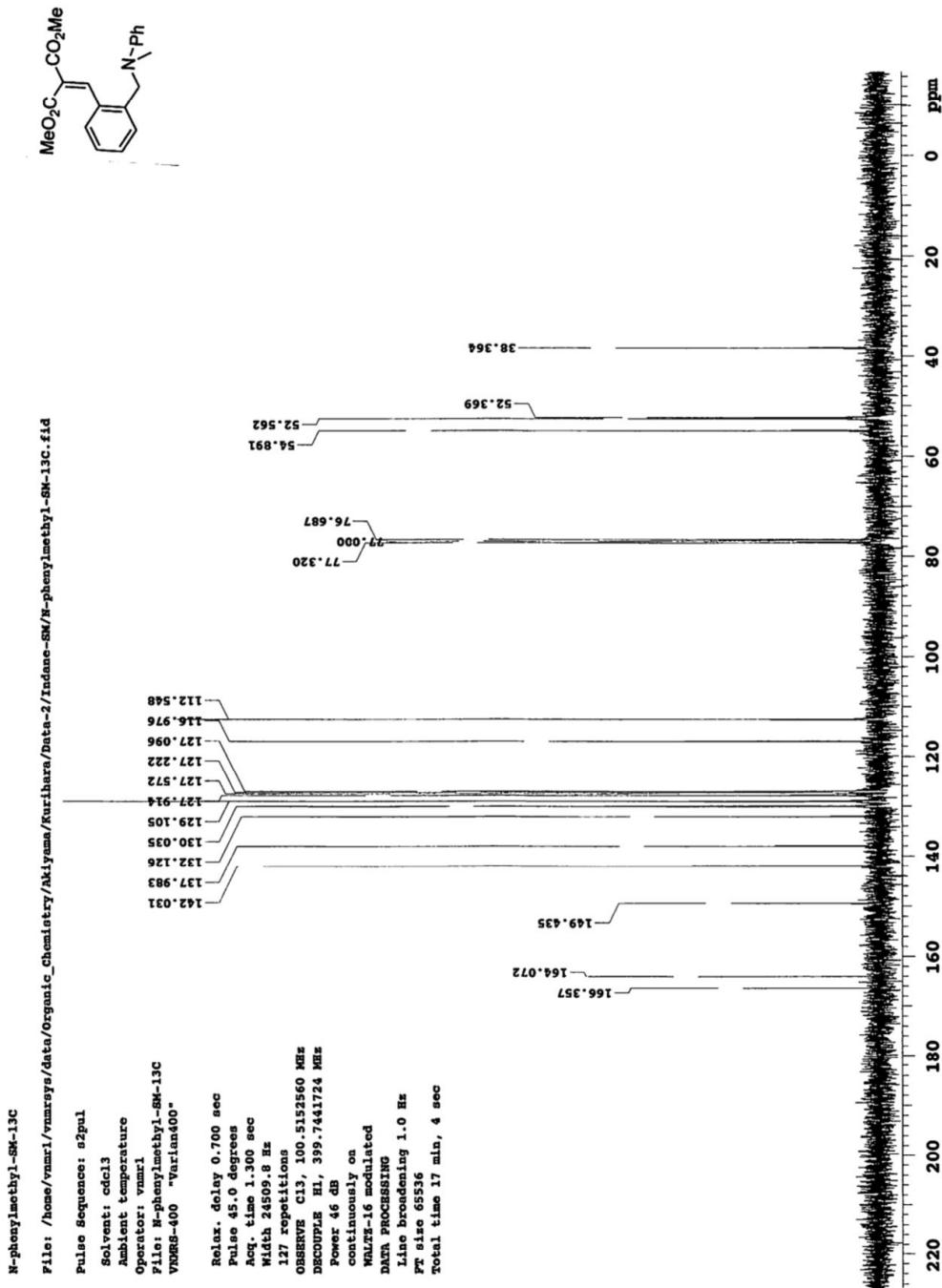
^{13}C NMR spectrum of **s15**.



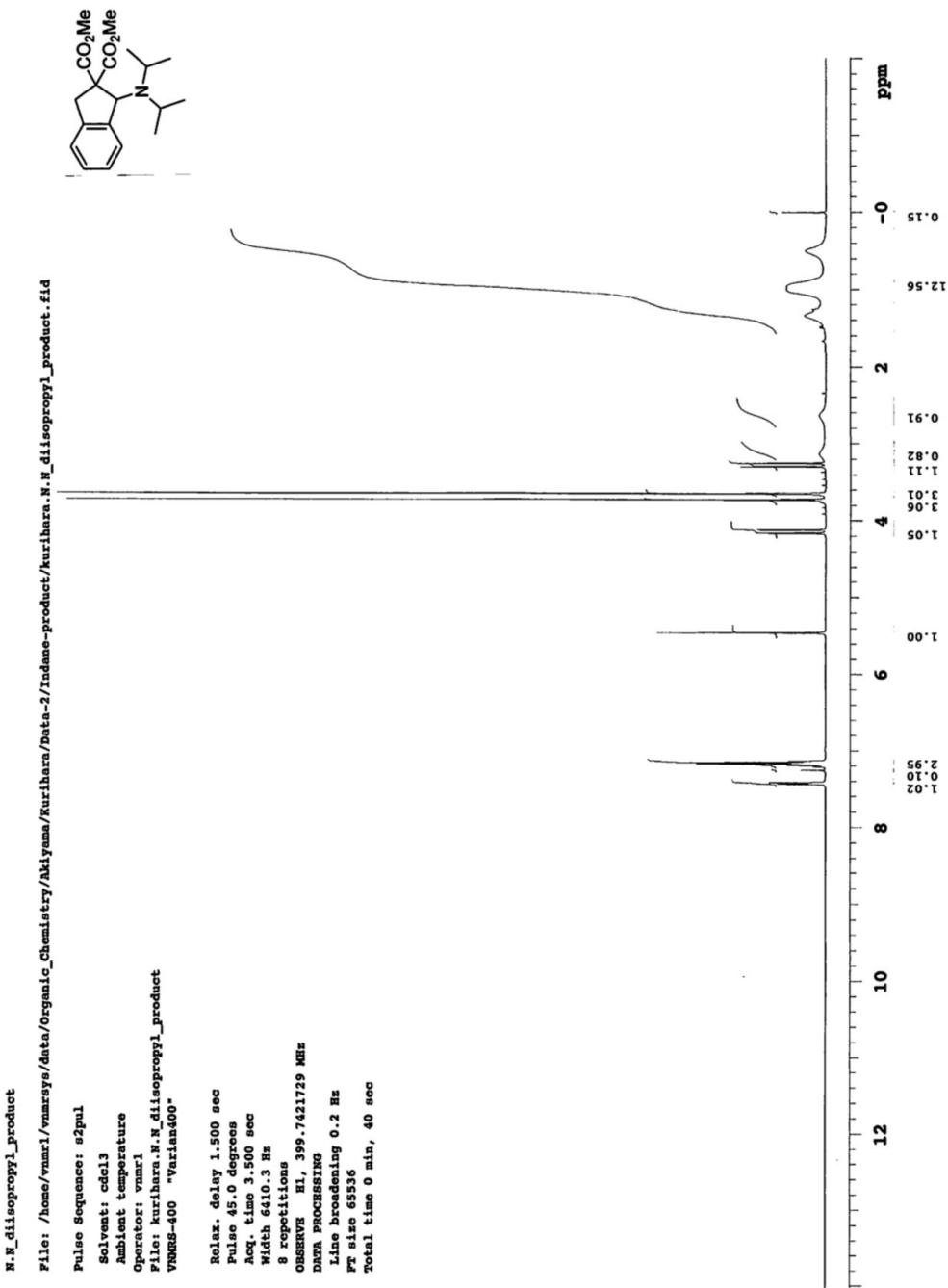
¹H NMR spectrum of **3o**.



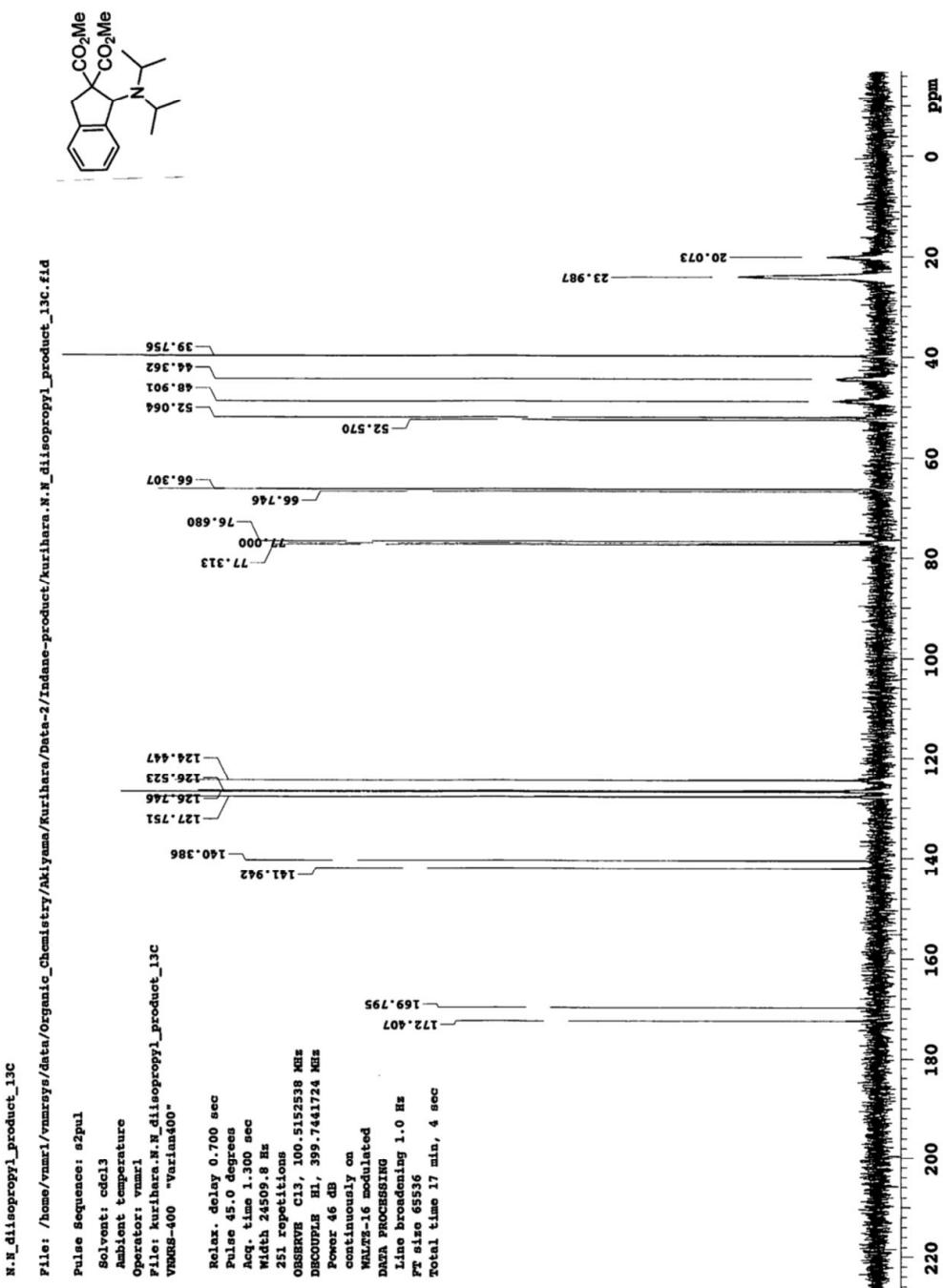
^{13}C NMR spectrum of **3o**.



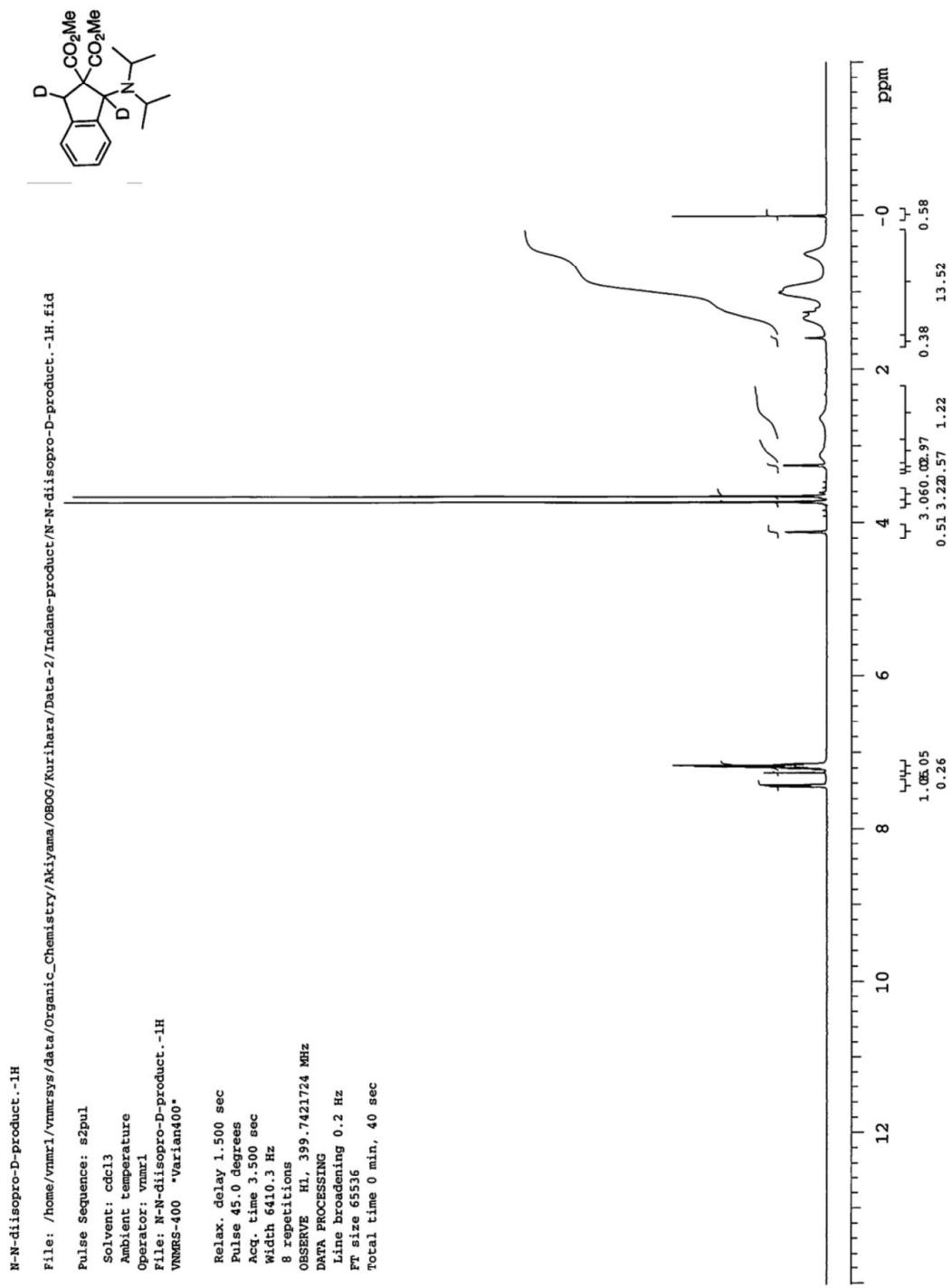
¹H NMR spectrum of **4a**.



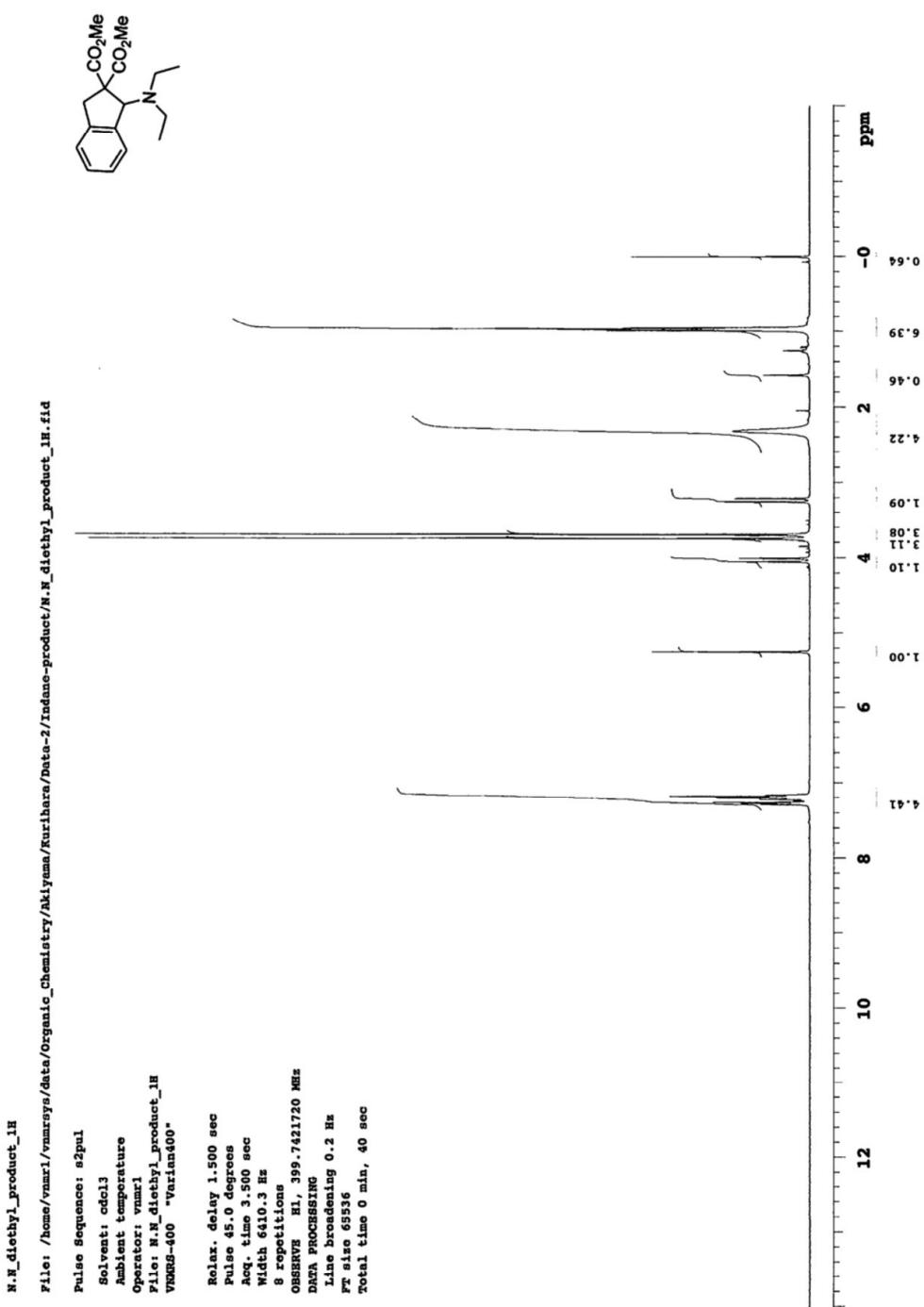
^{13}C NMR spectrum of **4a**.



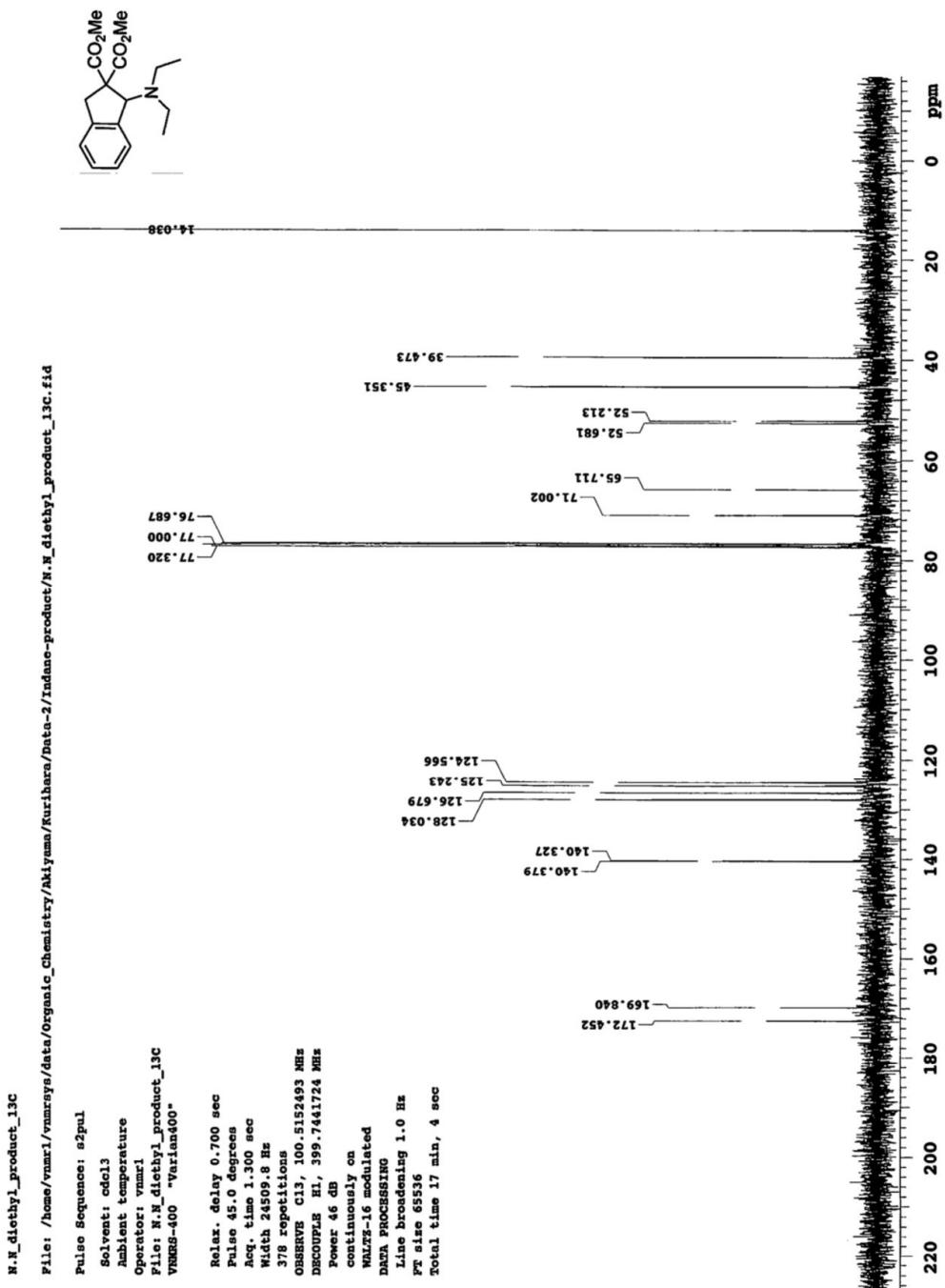
¹H NMR spectrum of *d*-4a.



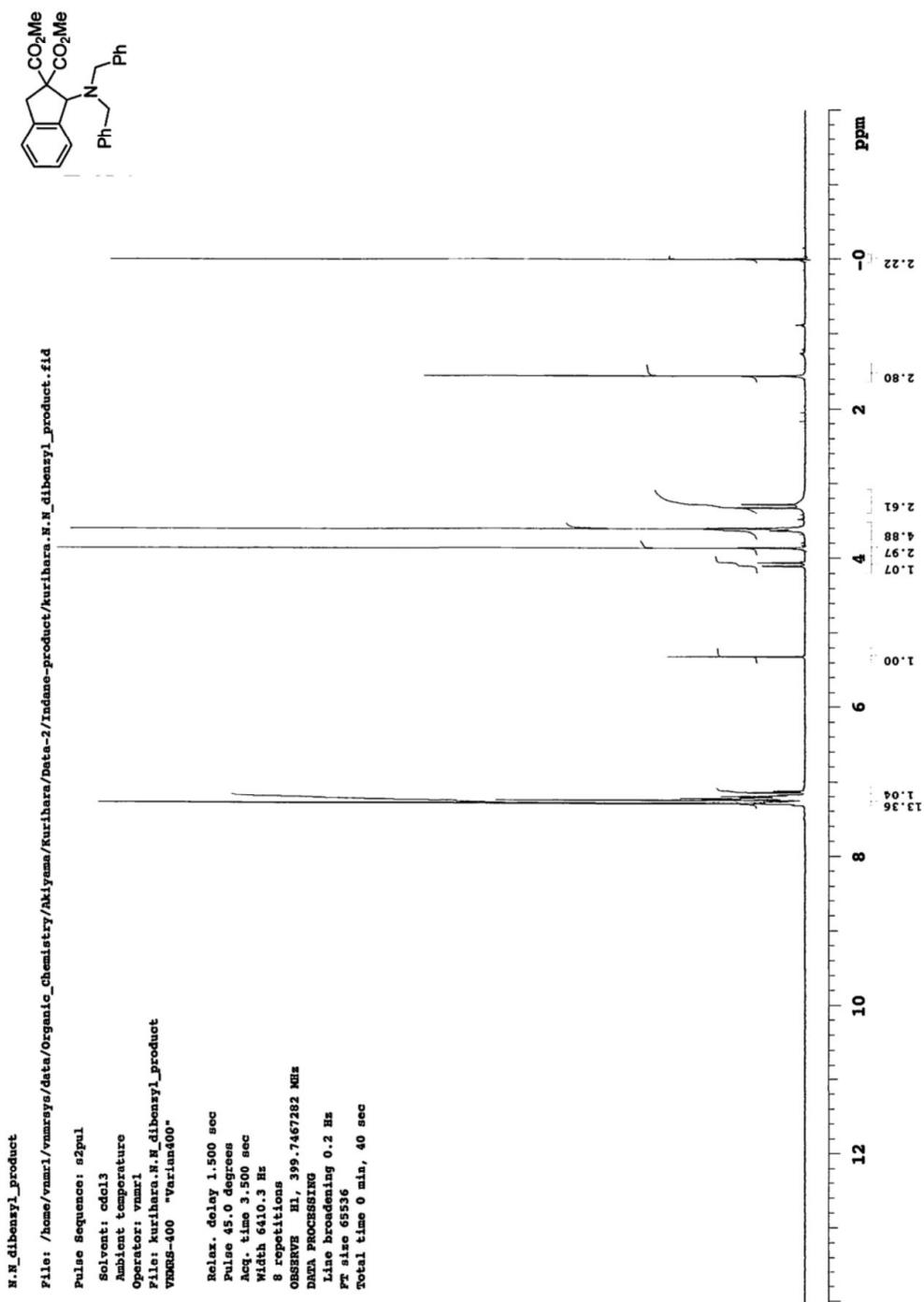
¹H NMR spectrum of **4b**.



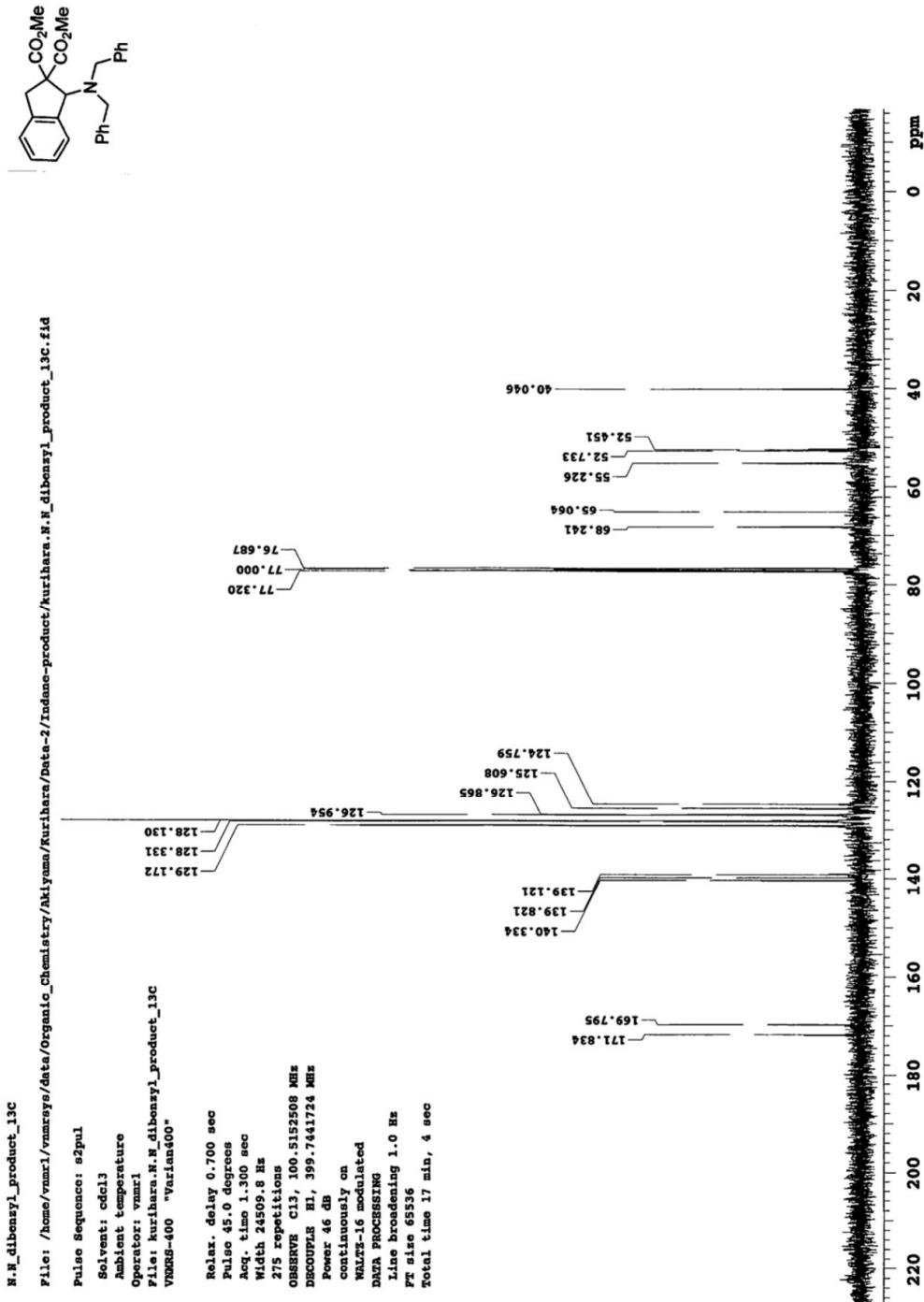
^{13}C NMR spectrum of **4b**.



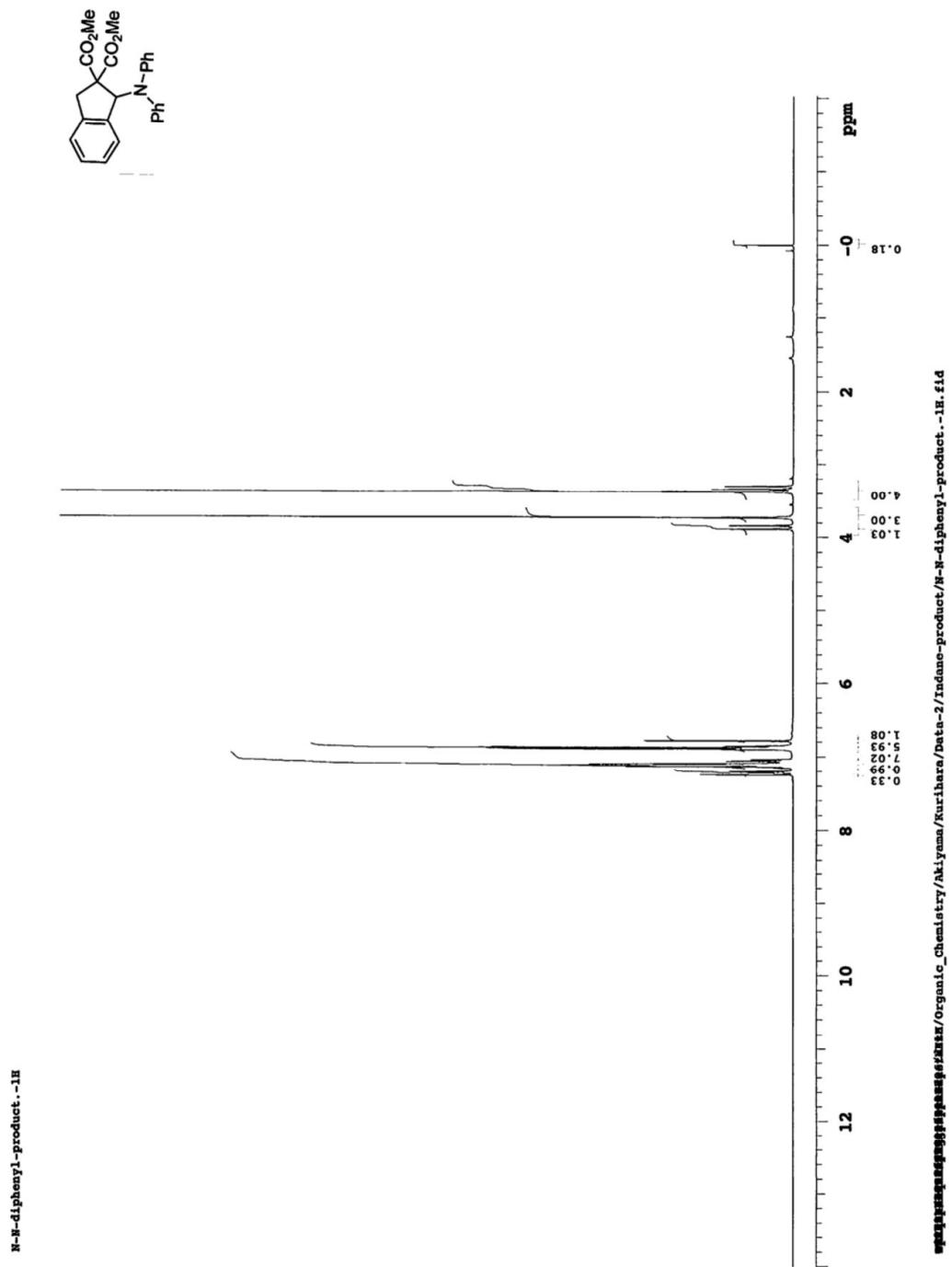
¹H NMR spectrum of **4c**.



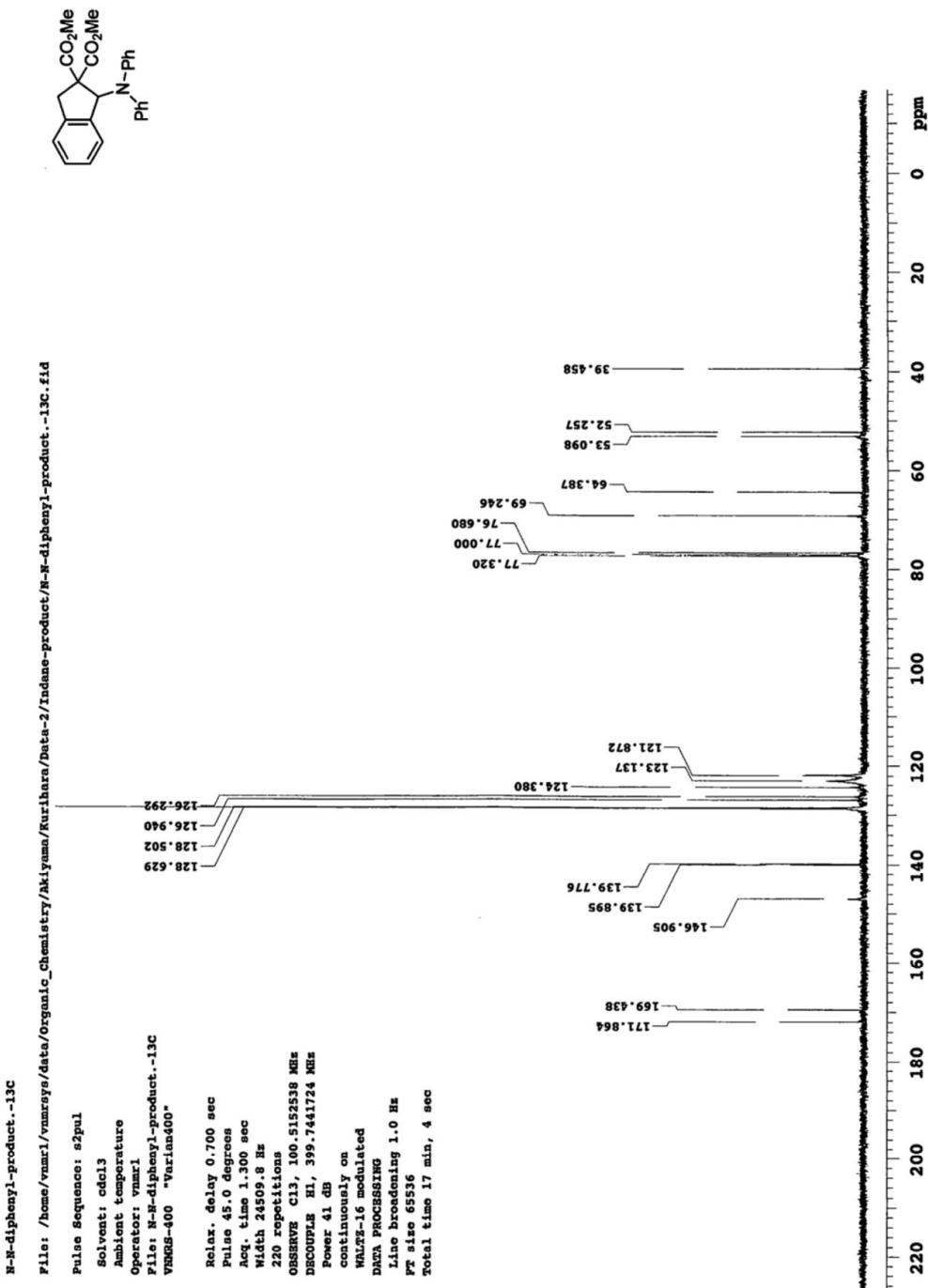
^{13}C NMR spectrum of **4c**.



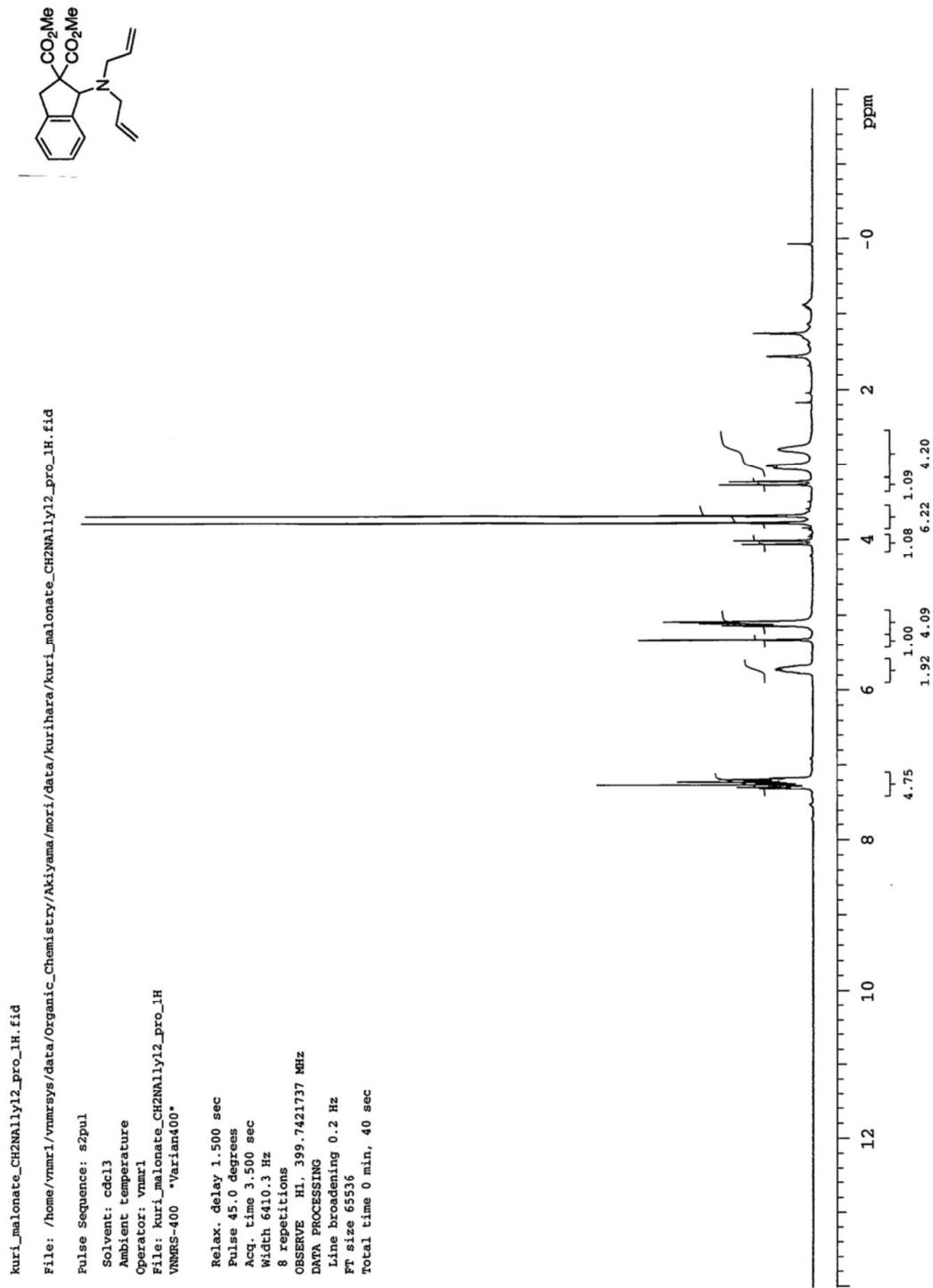
¹H NMR spectrum of **4d**.



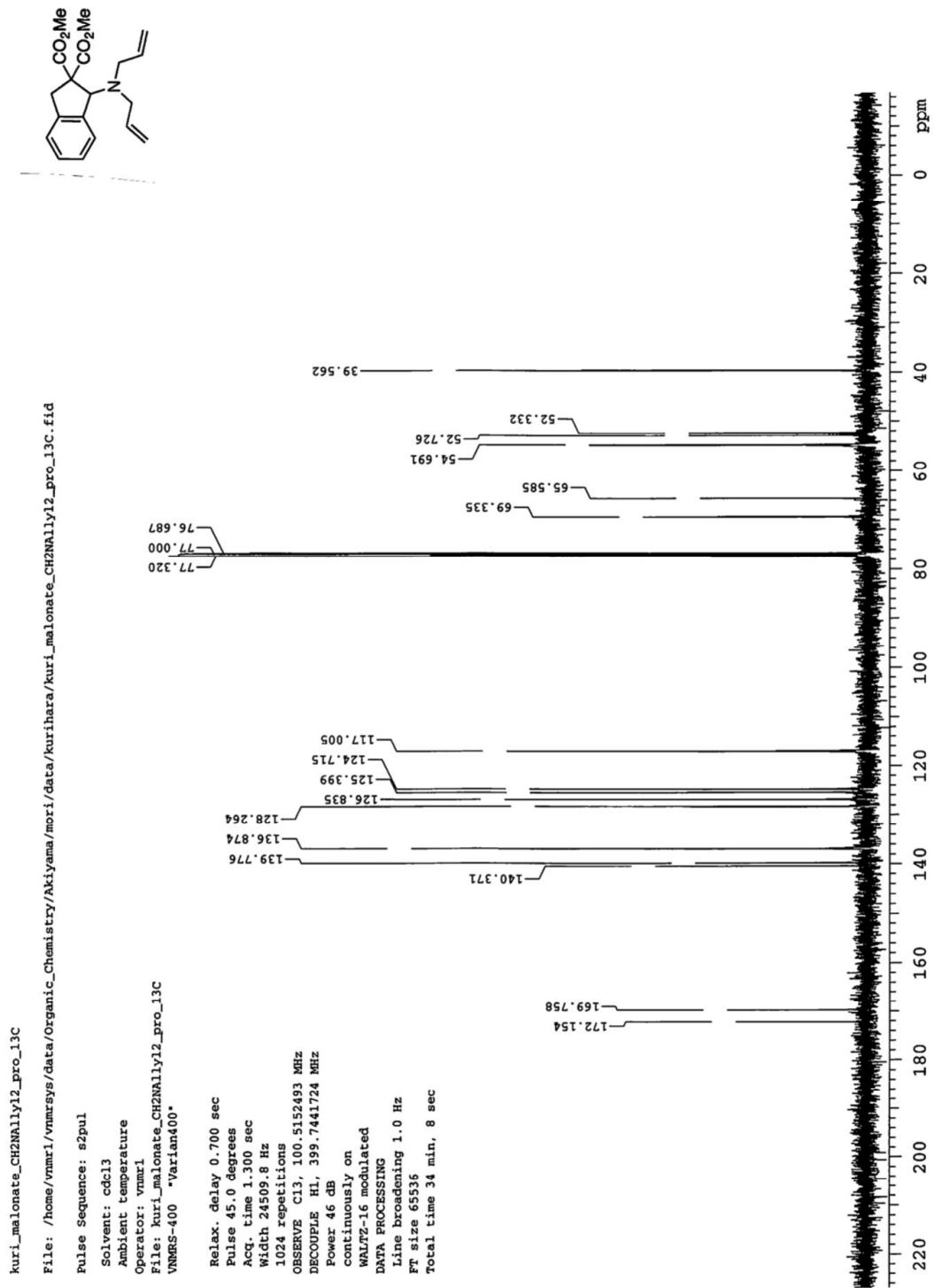
^{13}C NMR spectrum of **4d**.



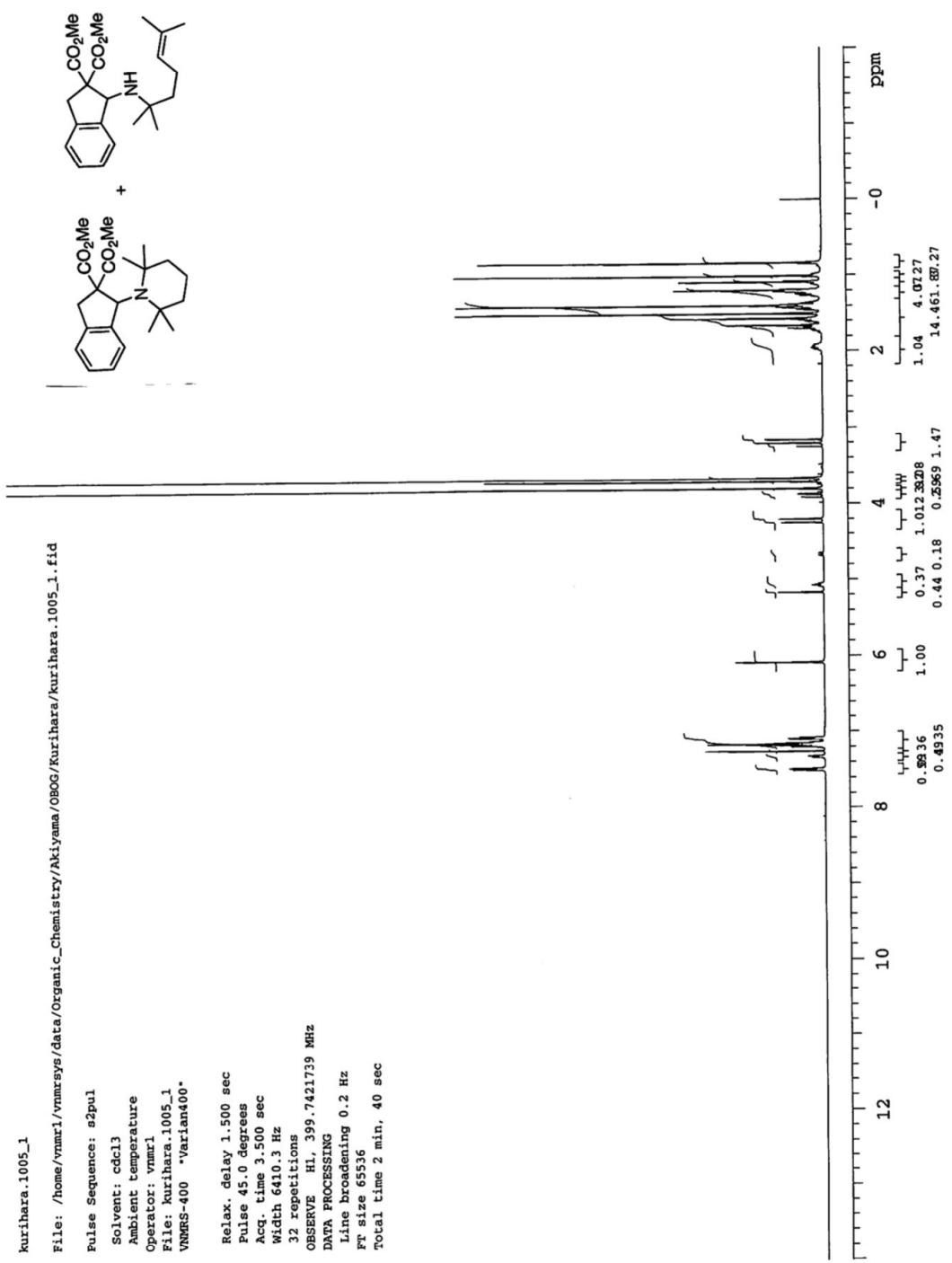
¹H NMR spectrum of **4e**.



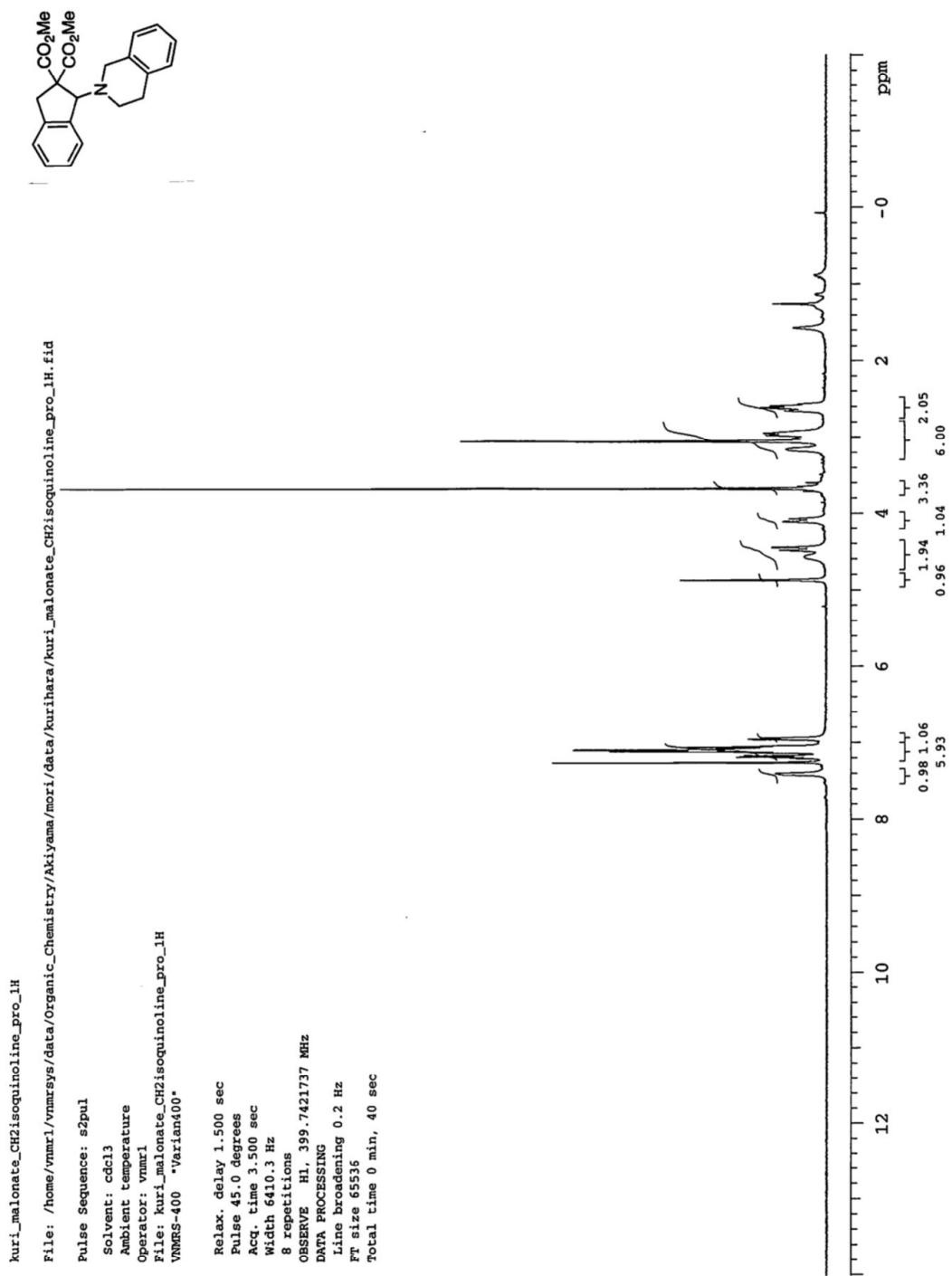
^{13}C NMR spectrum of **4e**.



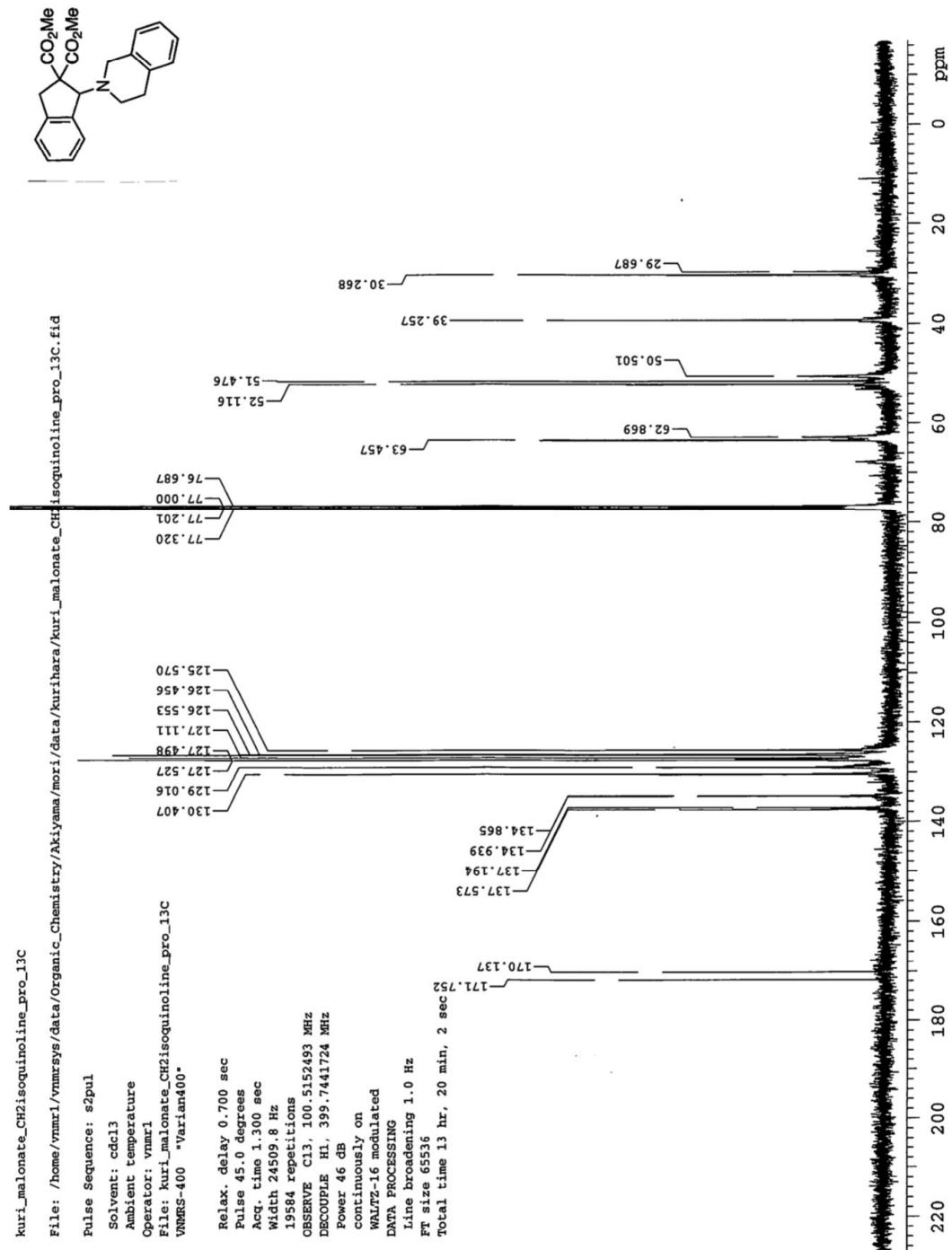
¹H NMR spectrum of **4g+4h**.



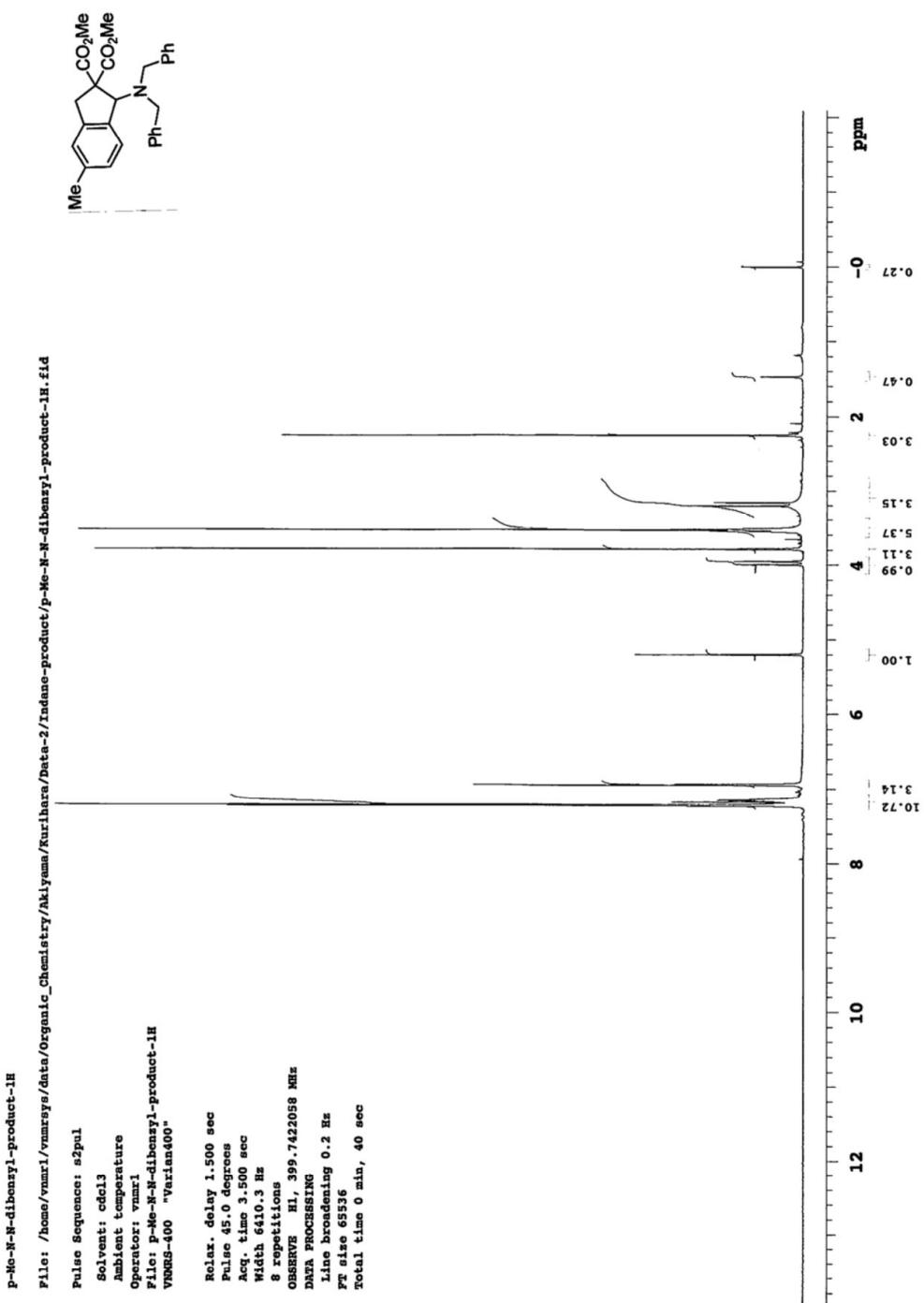
¹H NMR spectrum of **4i**.



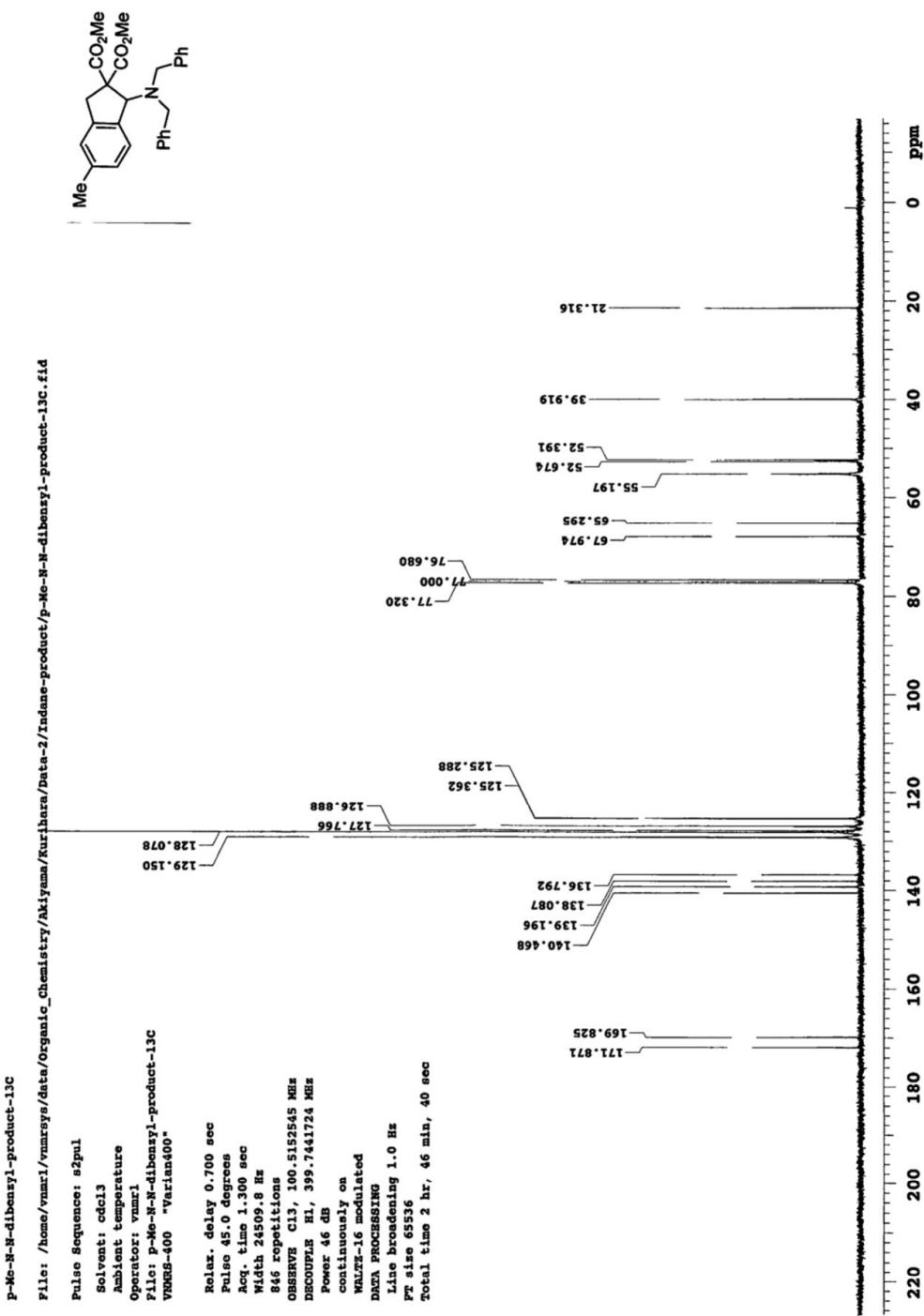
^{13}C NMR spectrum of **4i**.



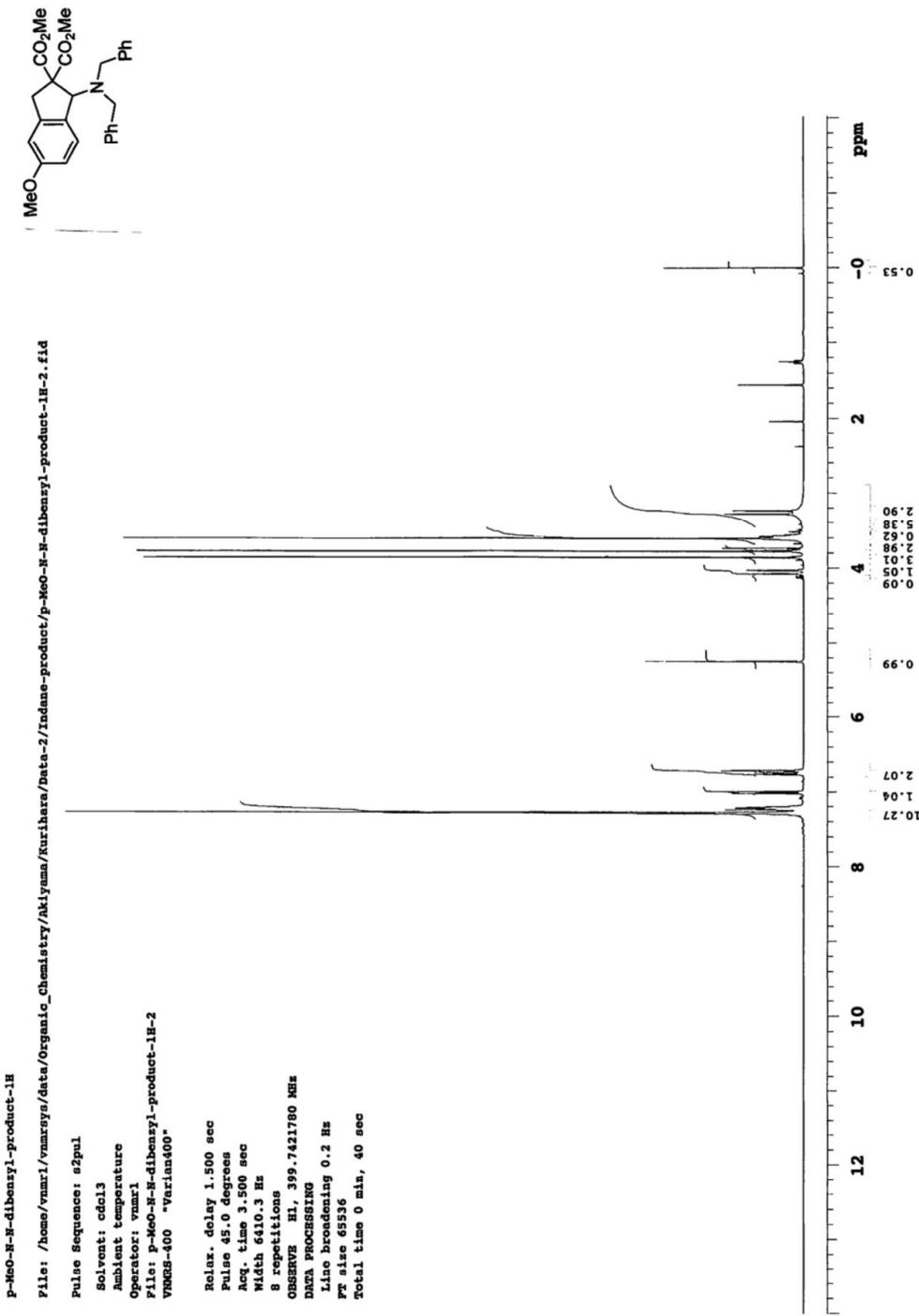
¹H NMR spectrum of **4j**.



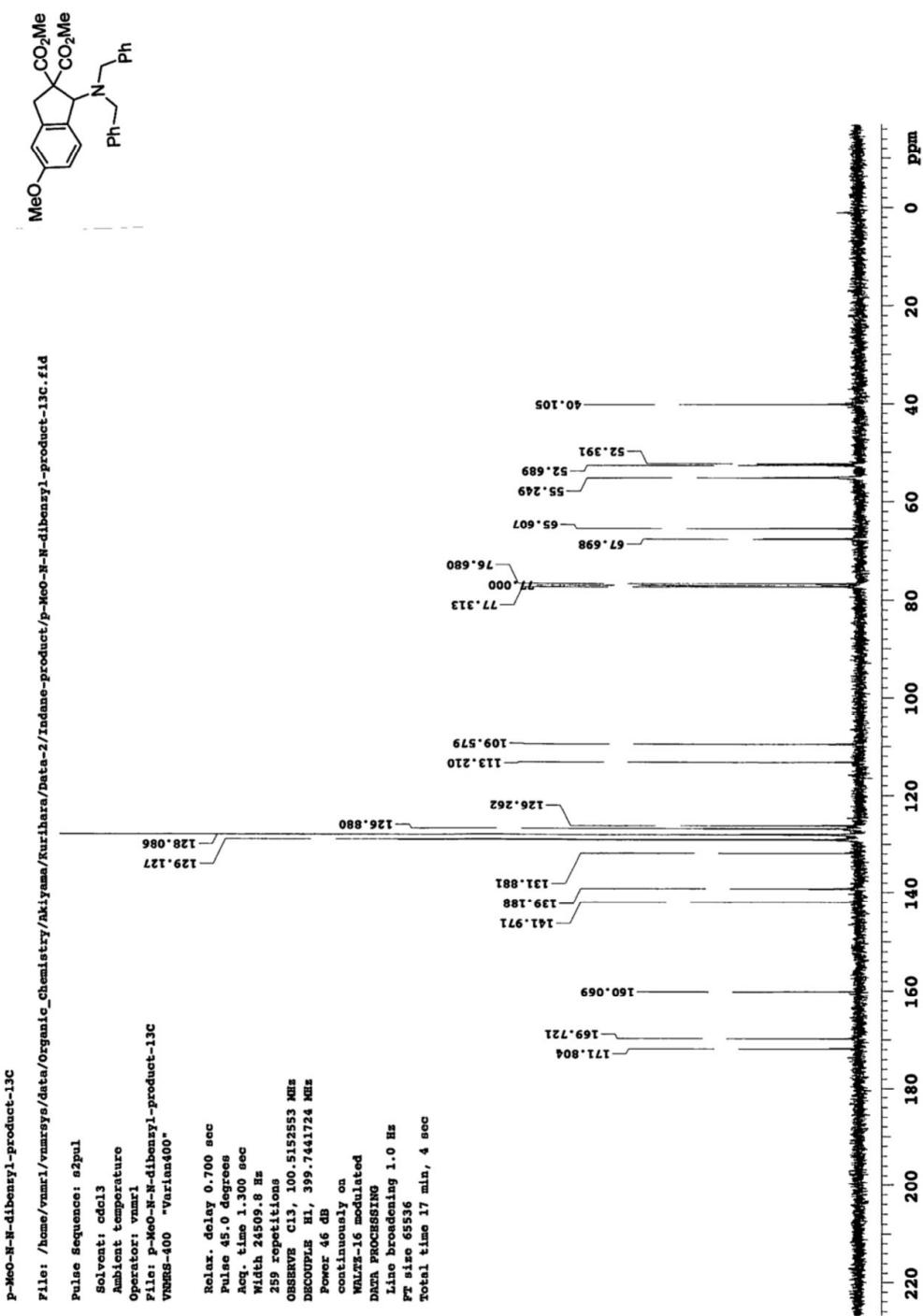
^{13}C NMR spectrum of **4j**.



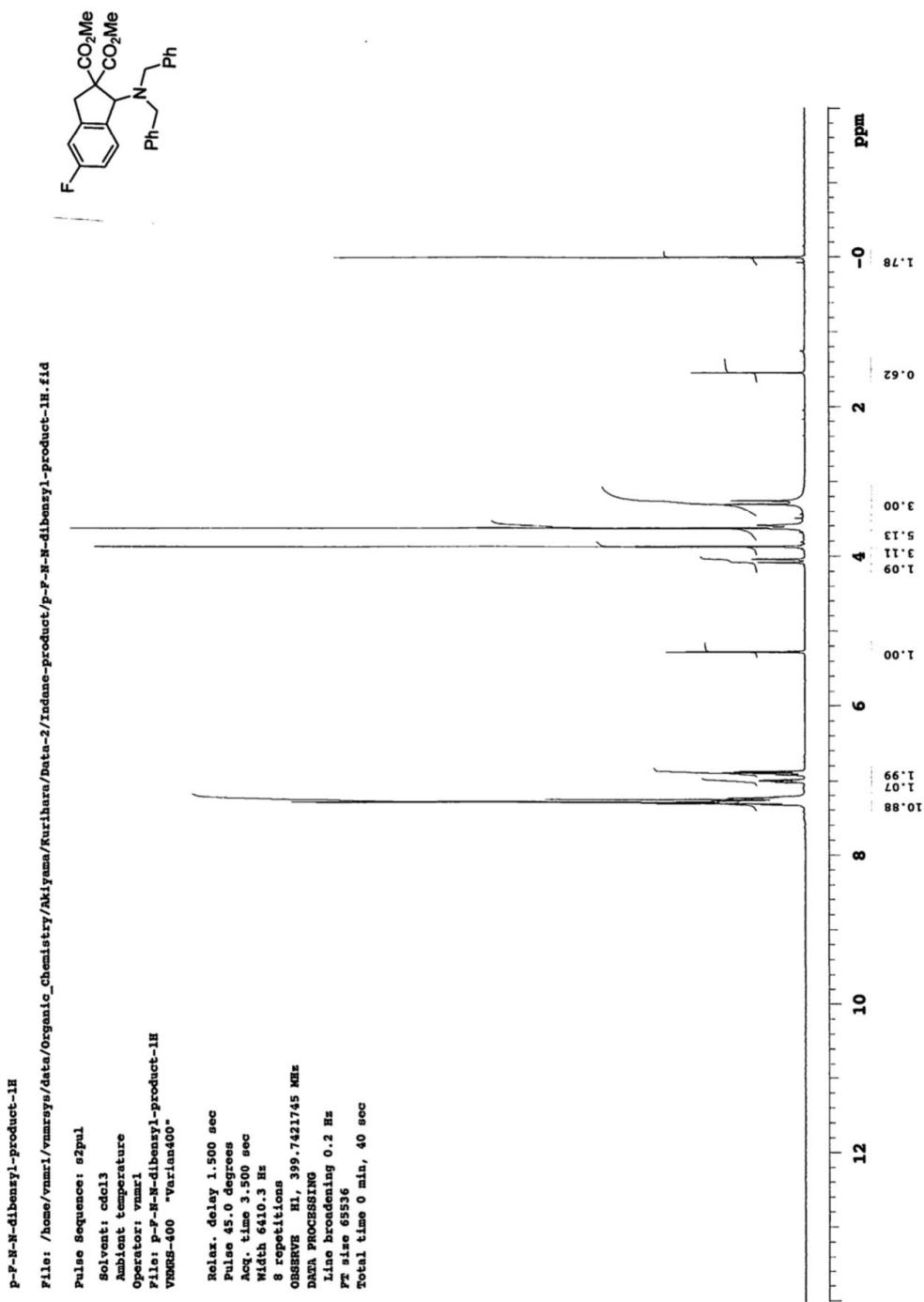
¹H NMR spectrum of **4k**.



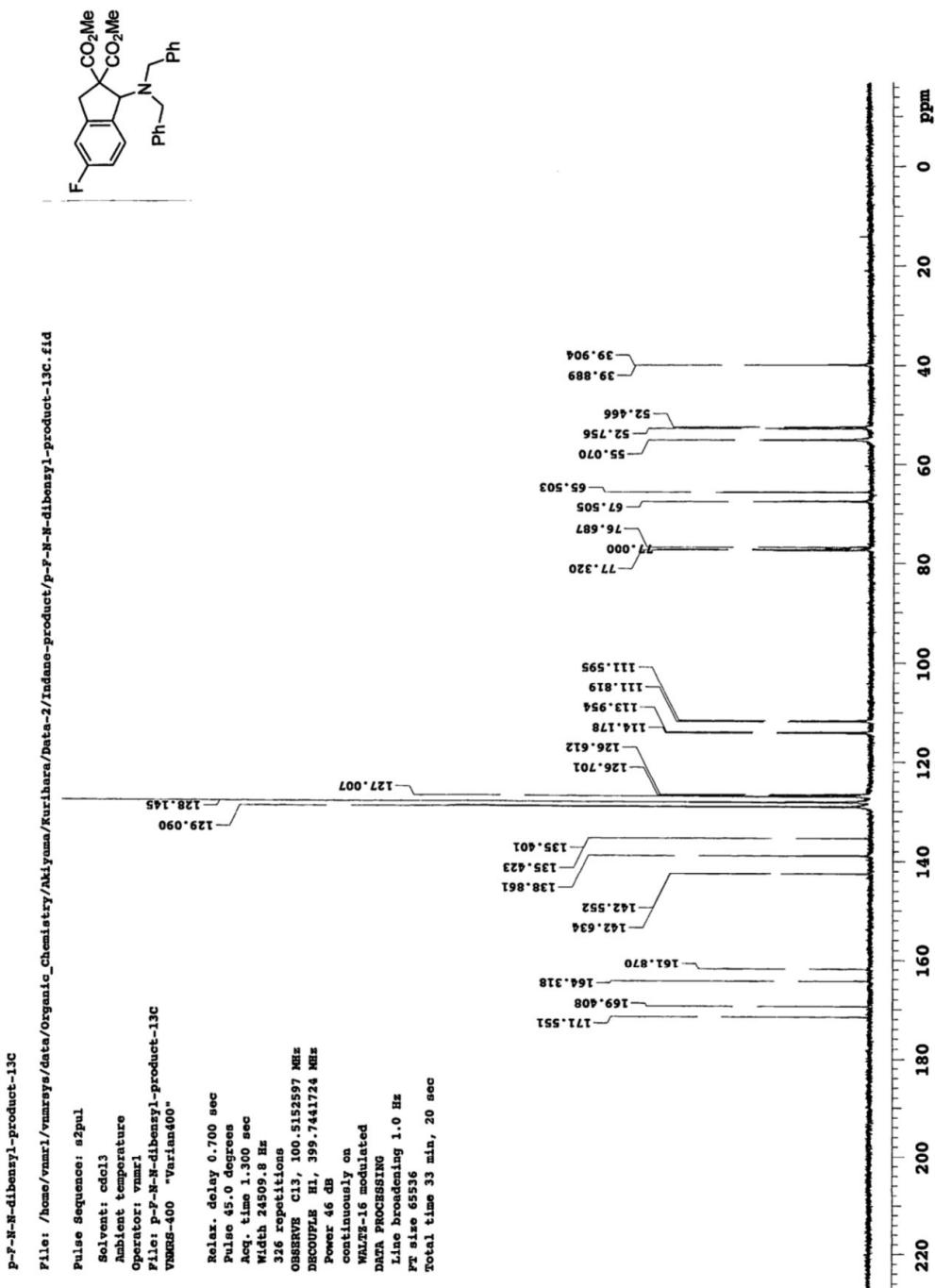
¹³C NMR spectrum of **4k**.



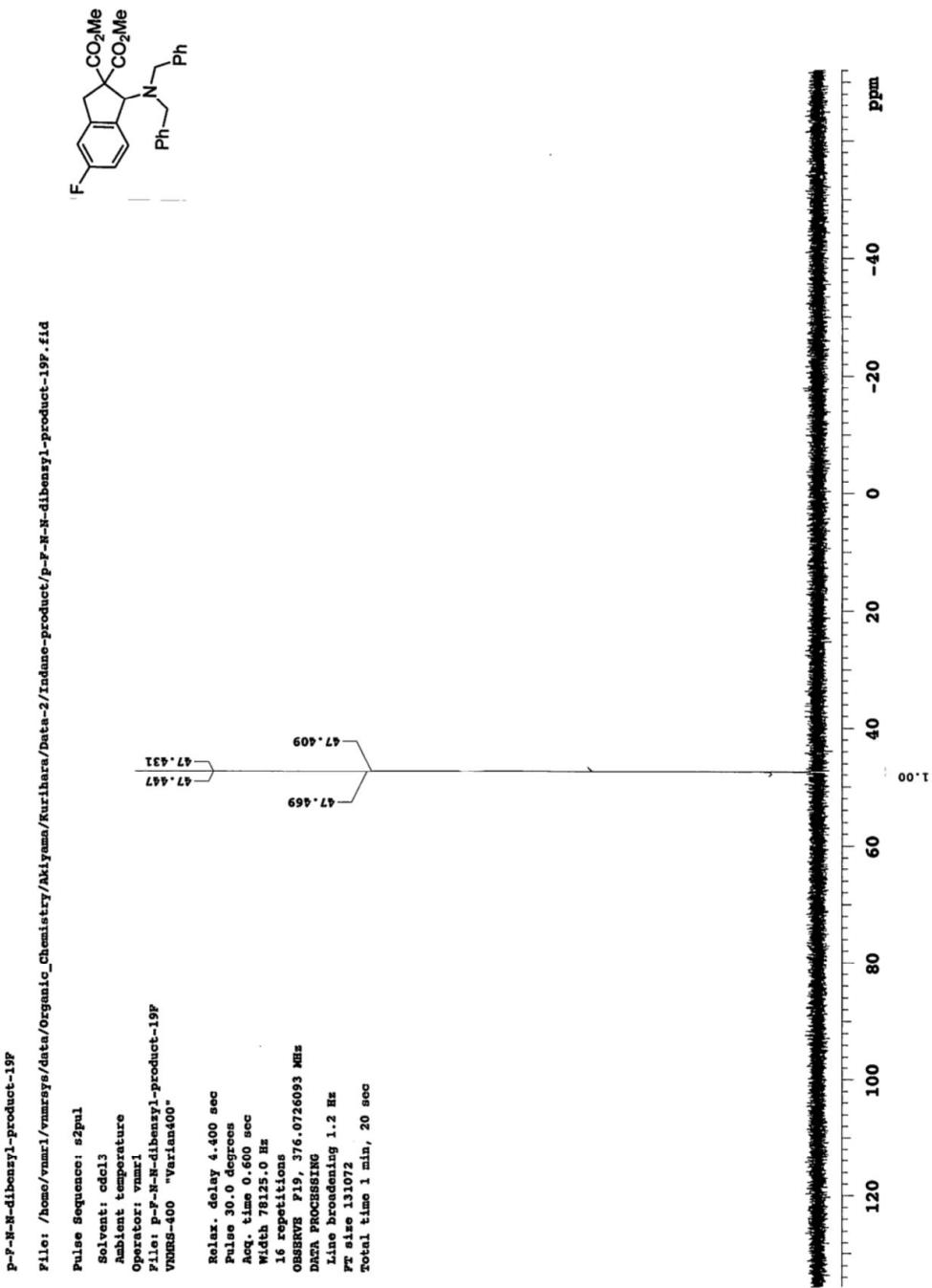
¹H NMR spectrum of **4l**.



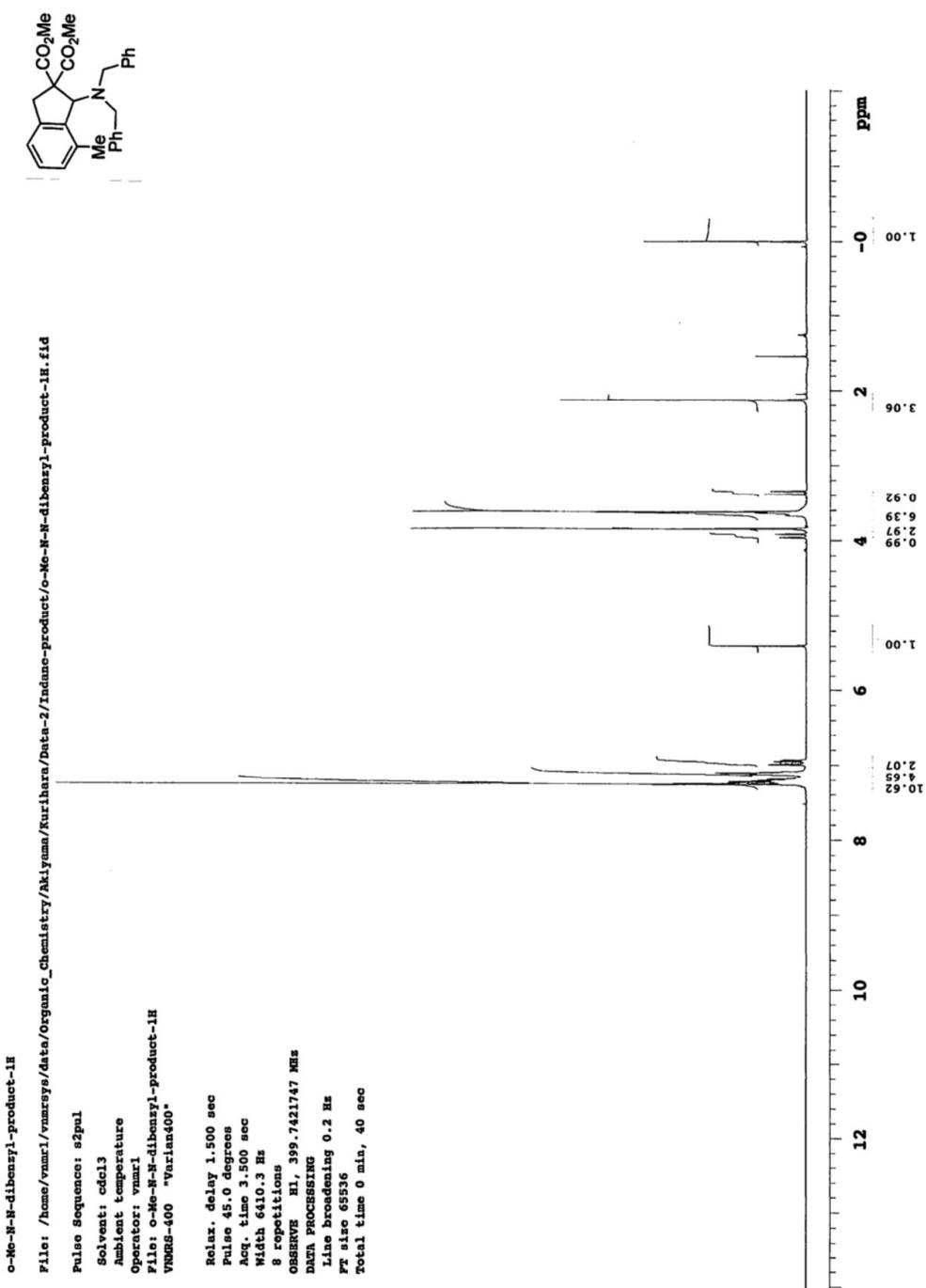
¹³C NMR spectrum of **4l**.



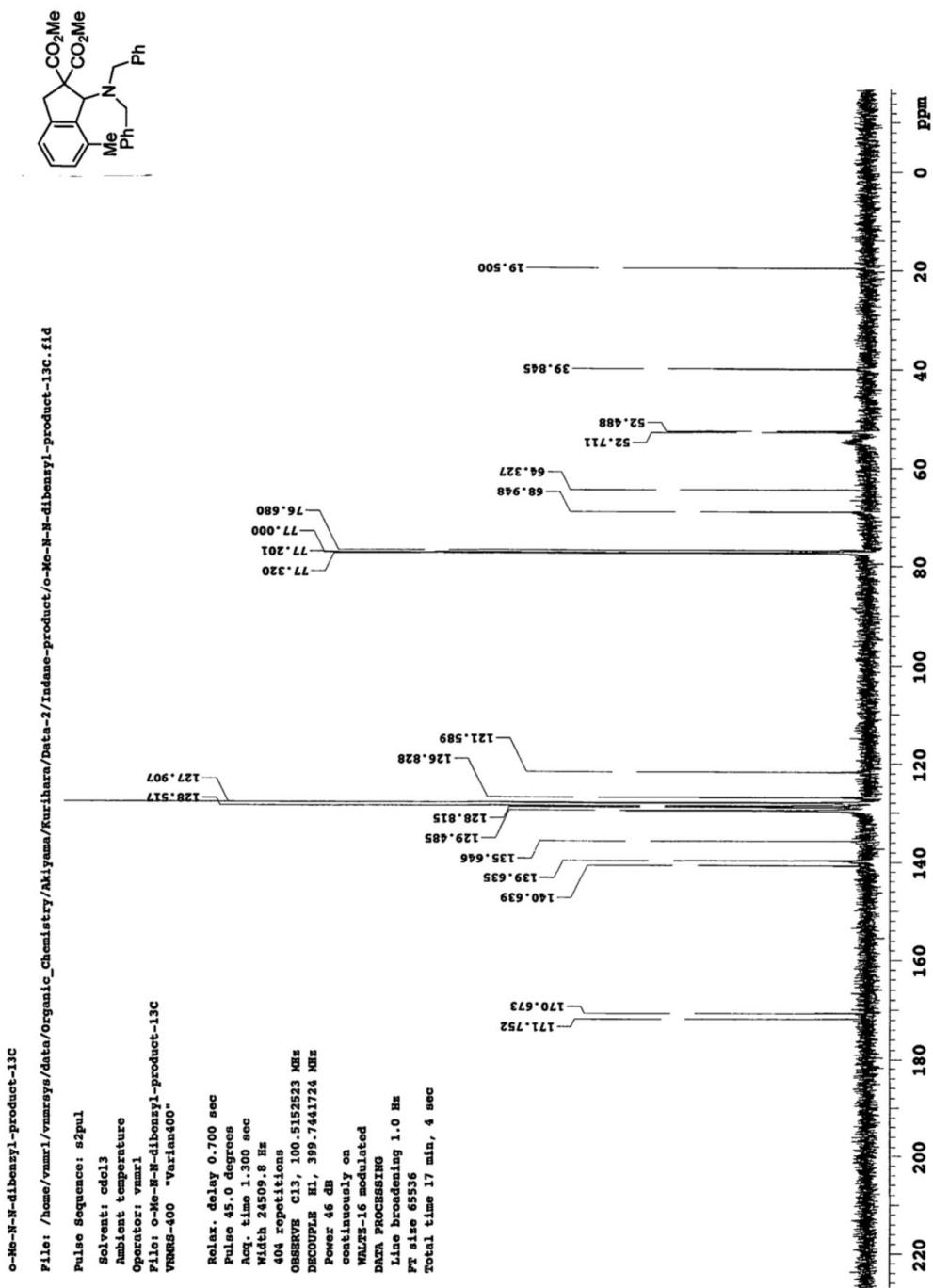
¹⁹F NMR spectrum of **4l**.



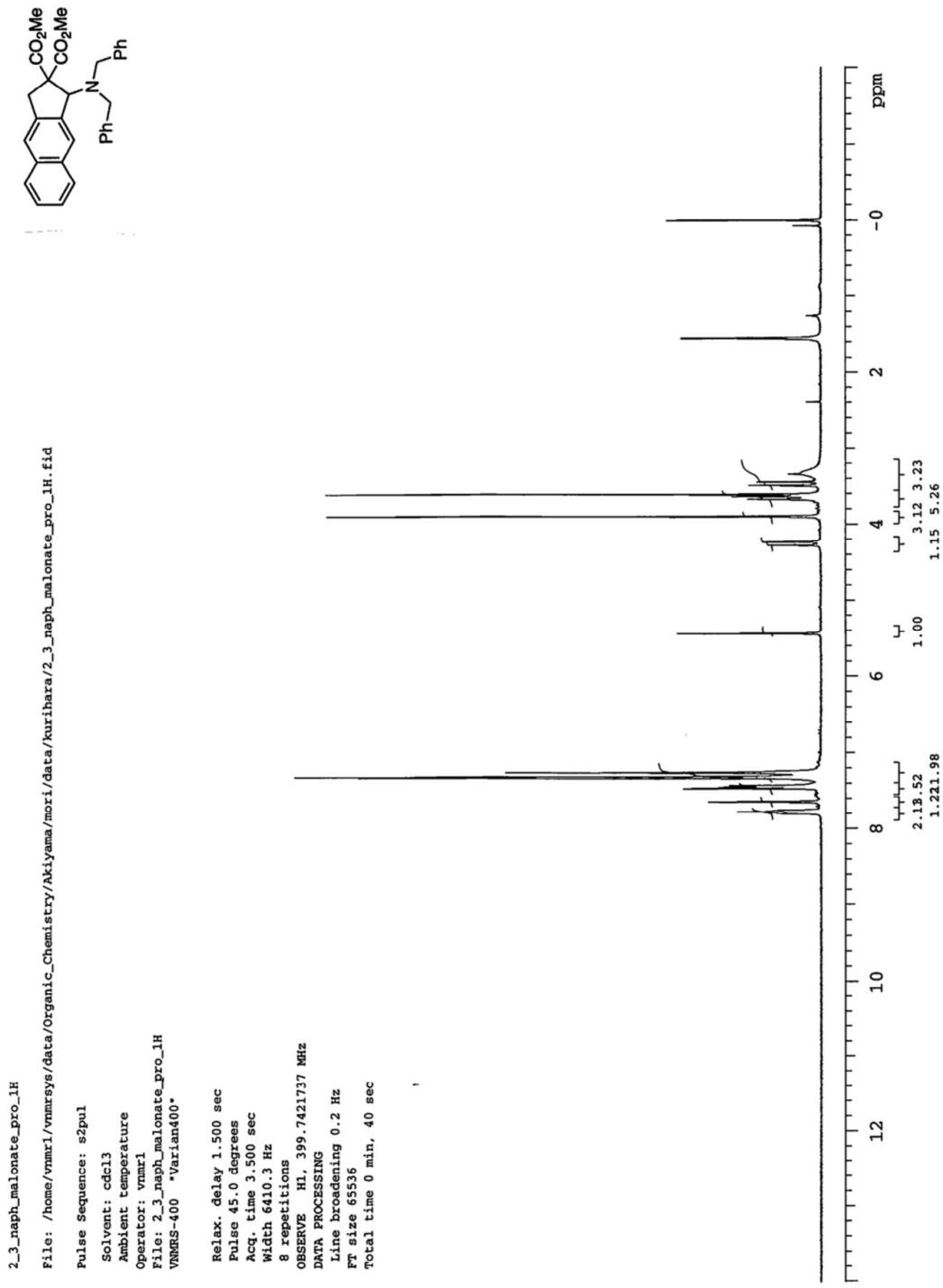
¹H NMR spectrum of **4m**.



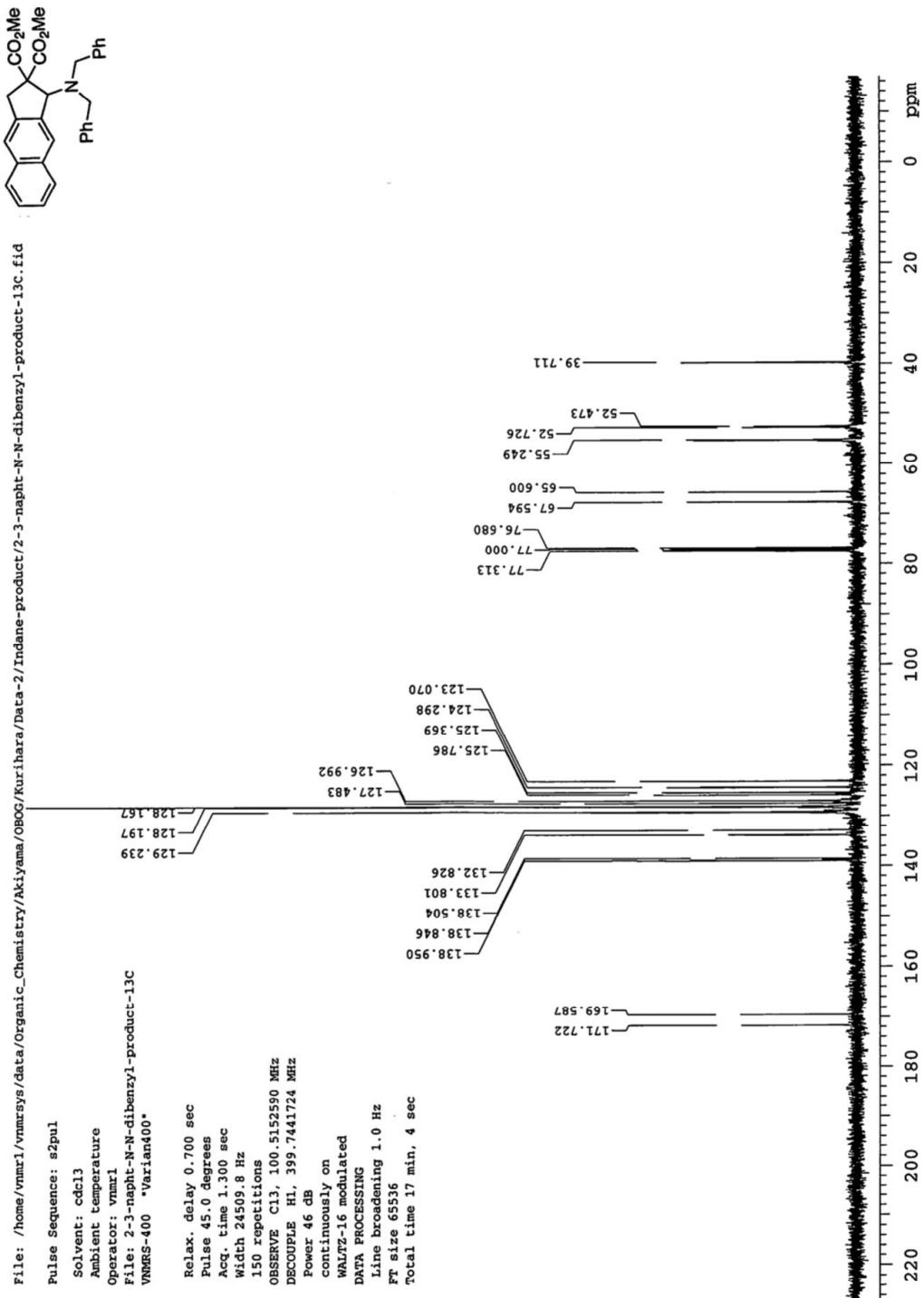
^{13}C NMR spectrum of **4m**.



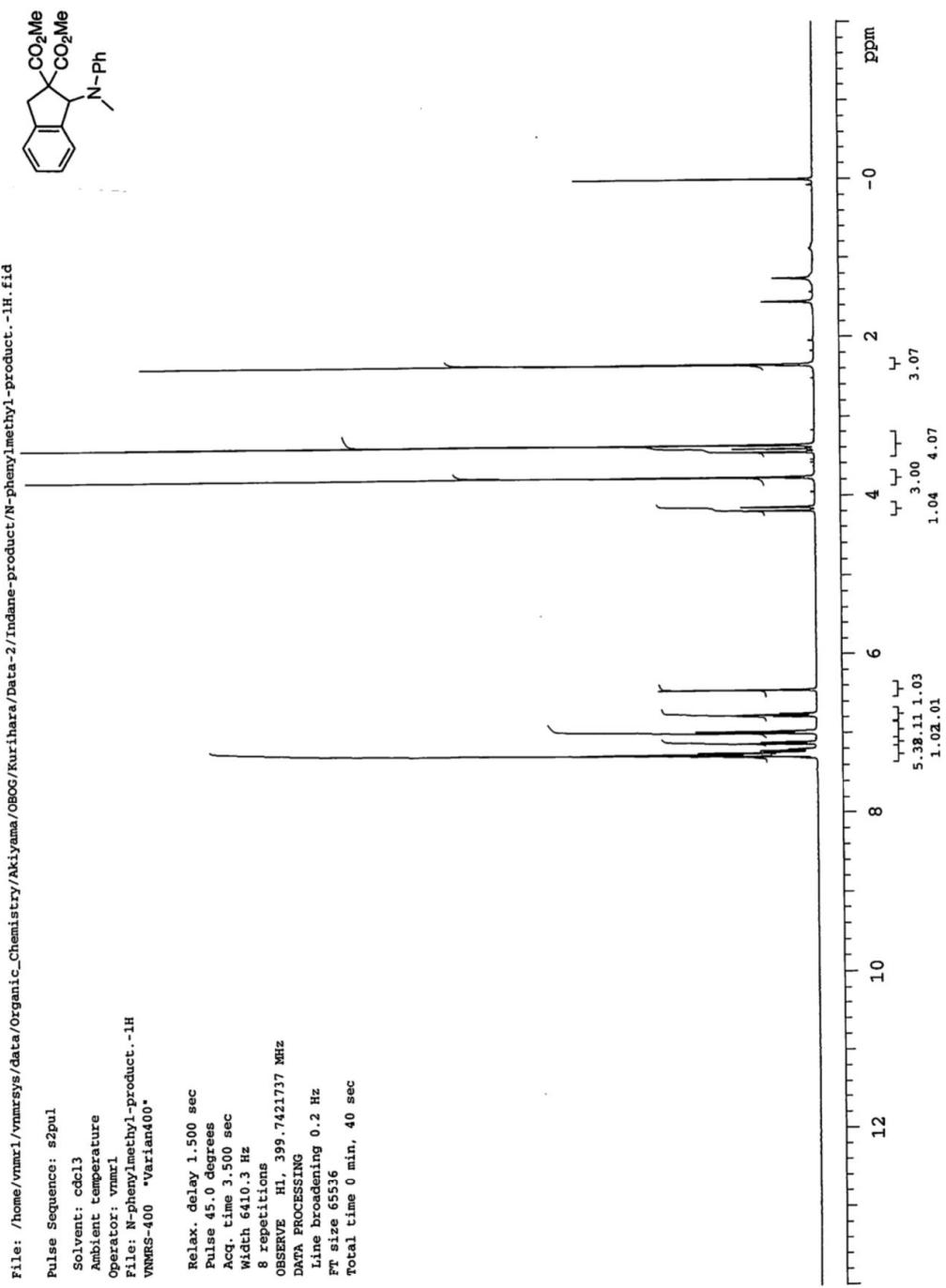
¹H NMR spectrum of **4n**.



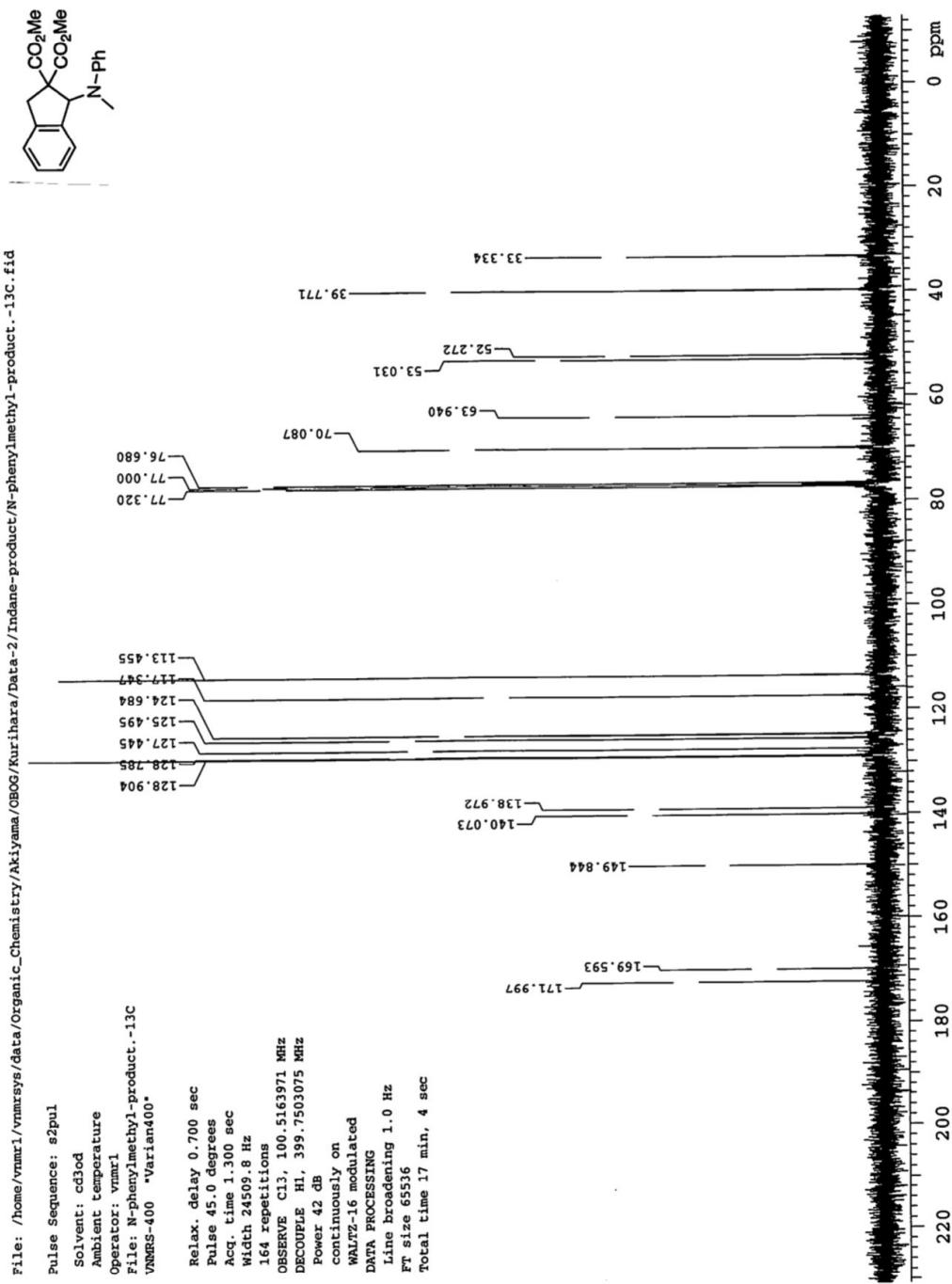
^{13}C NMR spectrum of **4n**.



¹H NMR spectrum of **4o**.



^{13}C NMR spectrum of **4o**.



¹H NMR spectrum of **7**.

