Supplementary Material

An efficient and direct synthesis of substituted 2-phenylquinoline-4-carboxamides from 3-substituted-3-hydroxyindolin-2-ones

Keshri Nath Tiwari,* Rinku Choubey, Saumya Shukla, and Parul Gautam

Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research (NIPER), ITI Compound, Raebareli 229 010, India
Email: keshri.tiwari@niperraebareli.edu.in

Contents

- Copies of ^{1}H and ^{13}C NMR spectra of compounds **4a-f**

 ©ARKAT USA, Inc

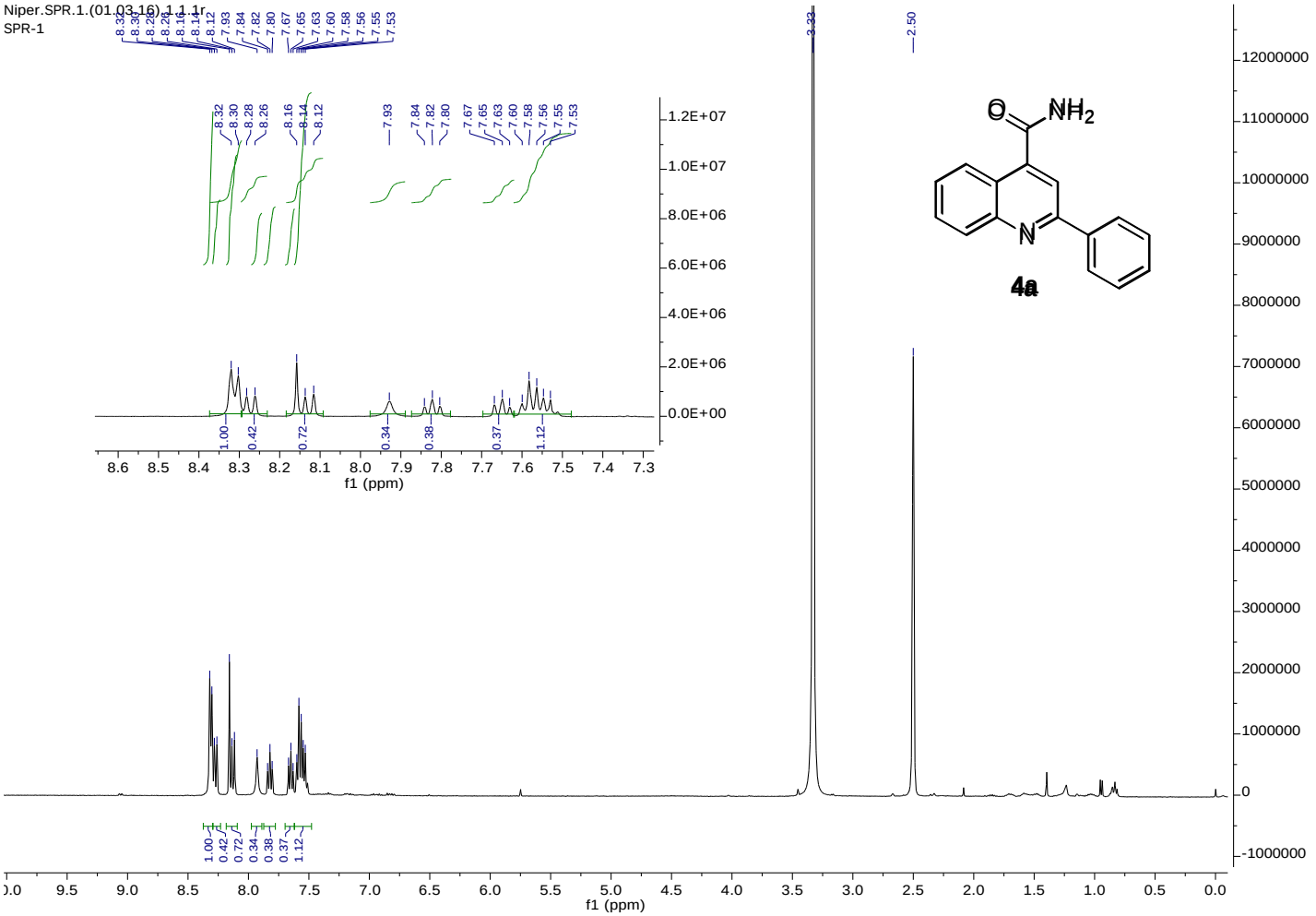


Fig. 1. ^{1}H NMR of 2-phenylquinoline-4-carboxamide (**4a**) (DMSOd_6, 400 MHz)

 ©ARKAT USA, Inc

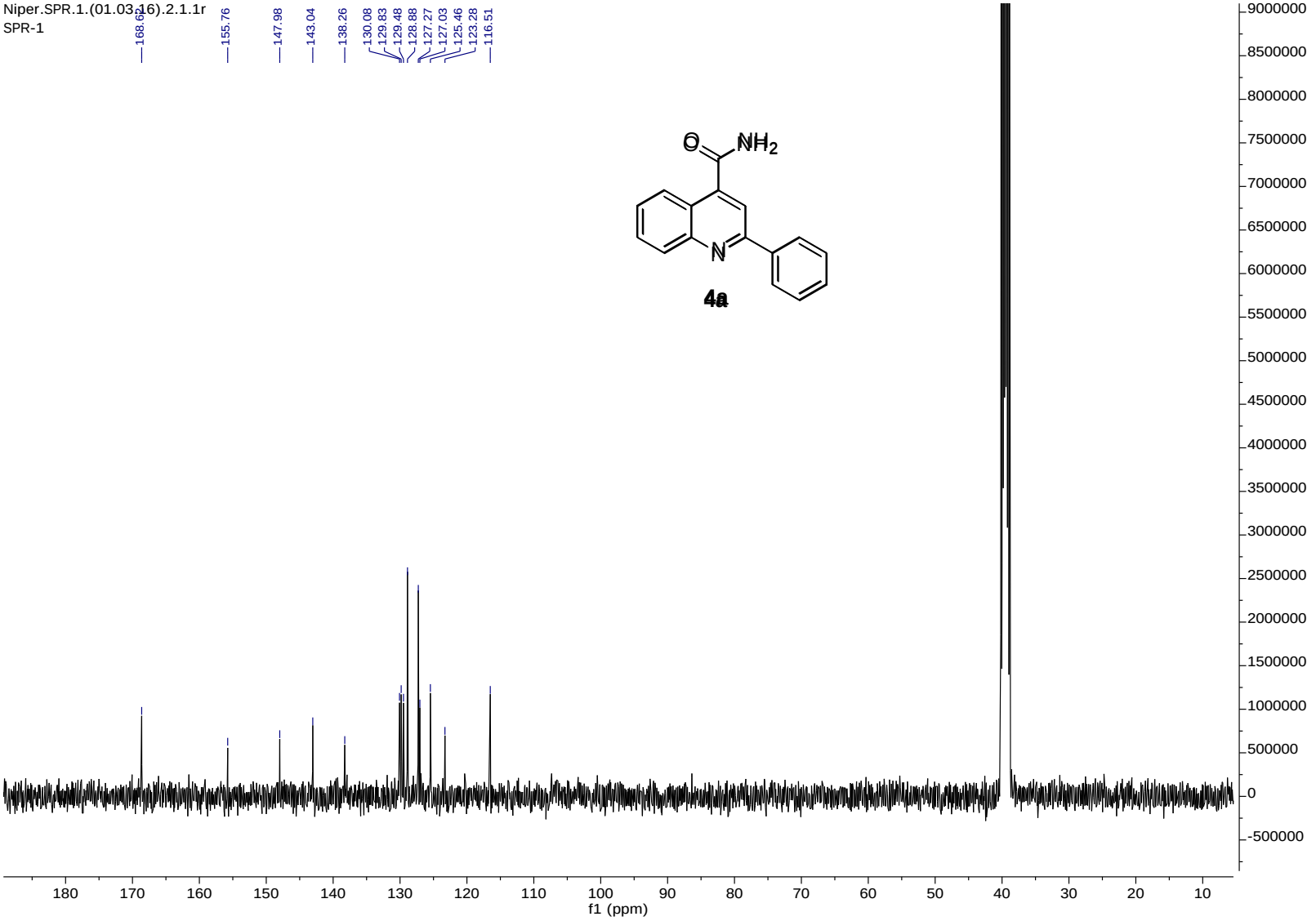


Fig. 2. ^{13}C NMR of 2-phenylquinoline-4-carboxamide **(4a)** ($DMSOd_6$, 100 MHz)

 ©ARKAT USA, Inc

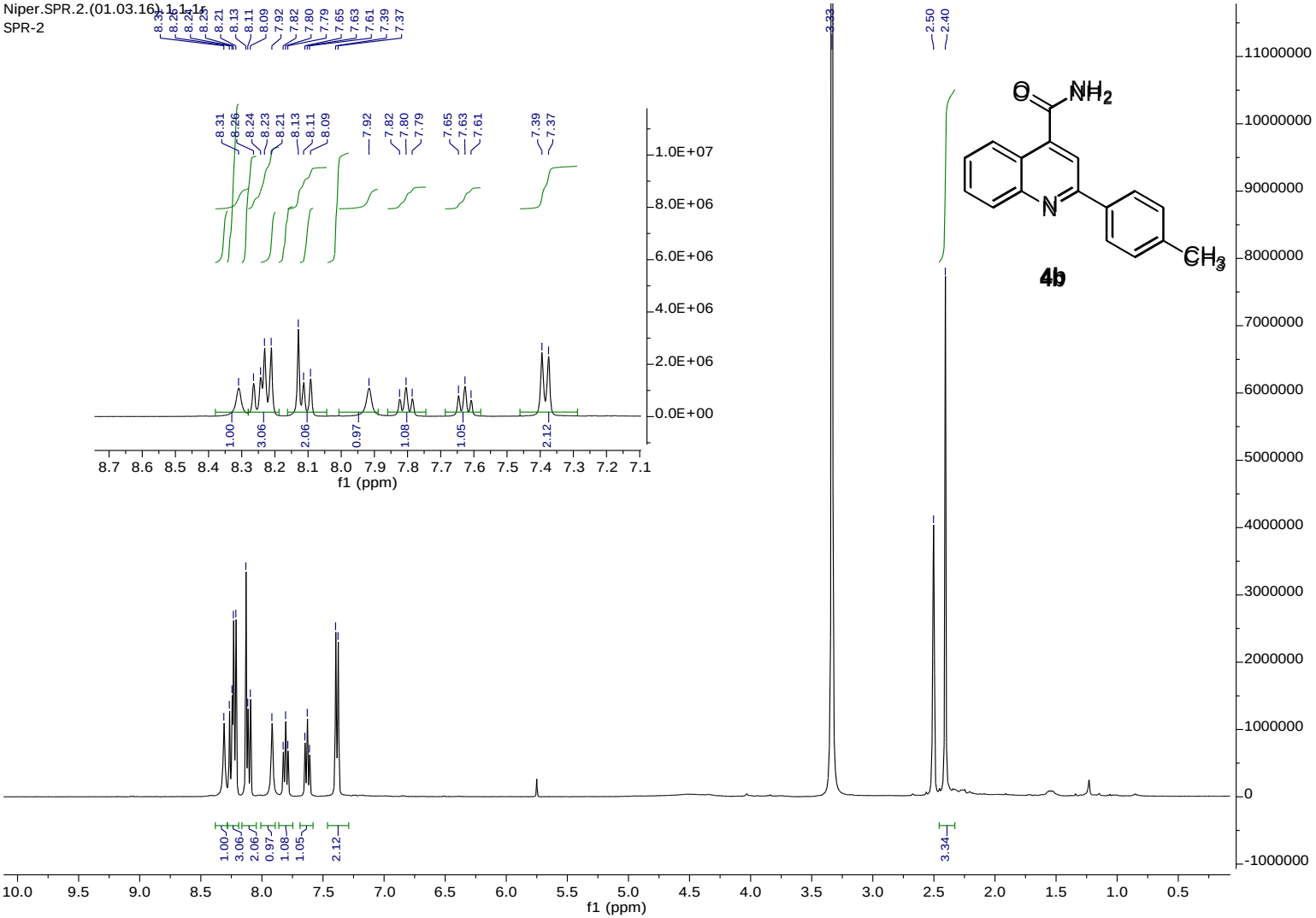


Fig. 3. ^{1}H NMR of 2-(*p*-tolyl)quinoline-4-carboxamide **(4b)** (DMSOd_6, 400 MHz)

 ©ARKAT USA, Inc

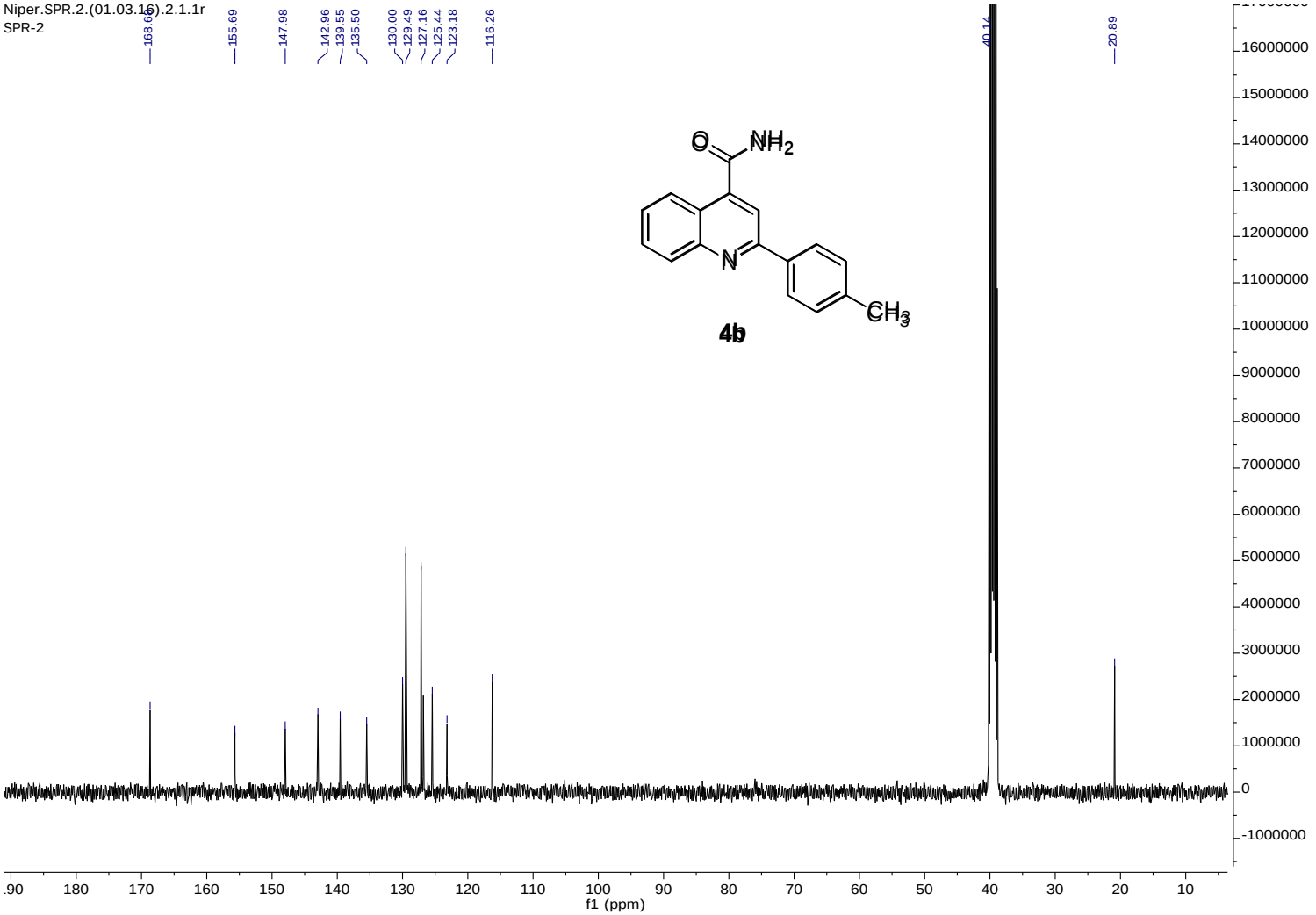


Fig. 4. ^{13}C NMR of 2-(*p*-tolyl)quinoline-4-carboxamide **(4b)** (DMSOd_6, 100 MHz)

 ©ARKAT USA, Inc

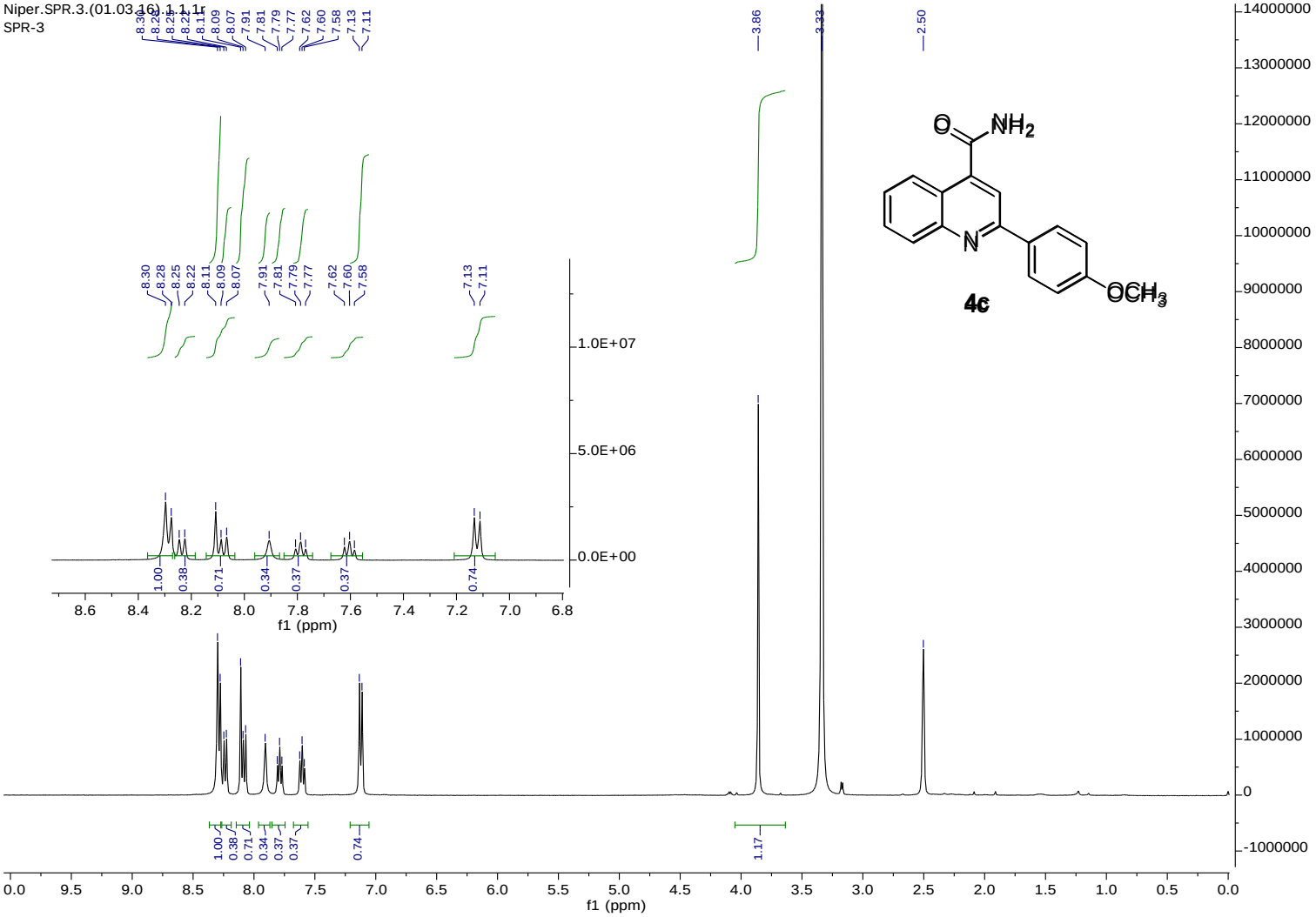


Fig. 5. ^{1}H NMR of 2-(4-methoxyphenyl)quinoline-4-carboxamide **(4c)** (DMSOd_6, 400 MHz)

 ©ARKAT USA, Inc

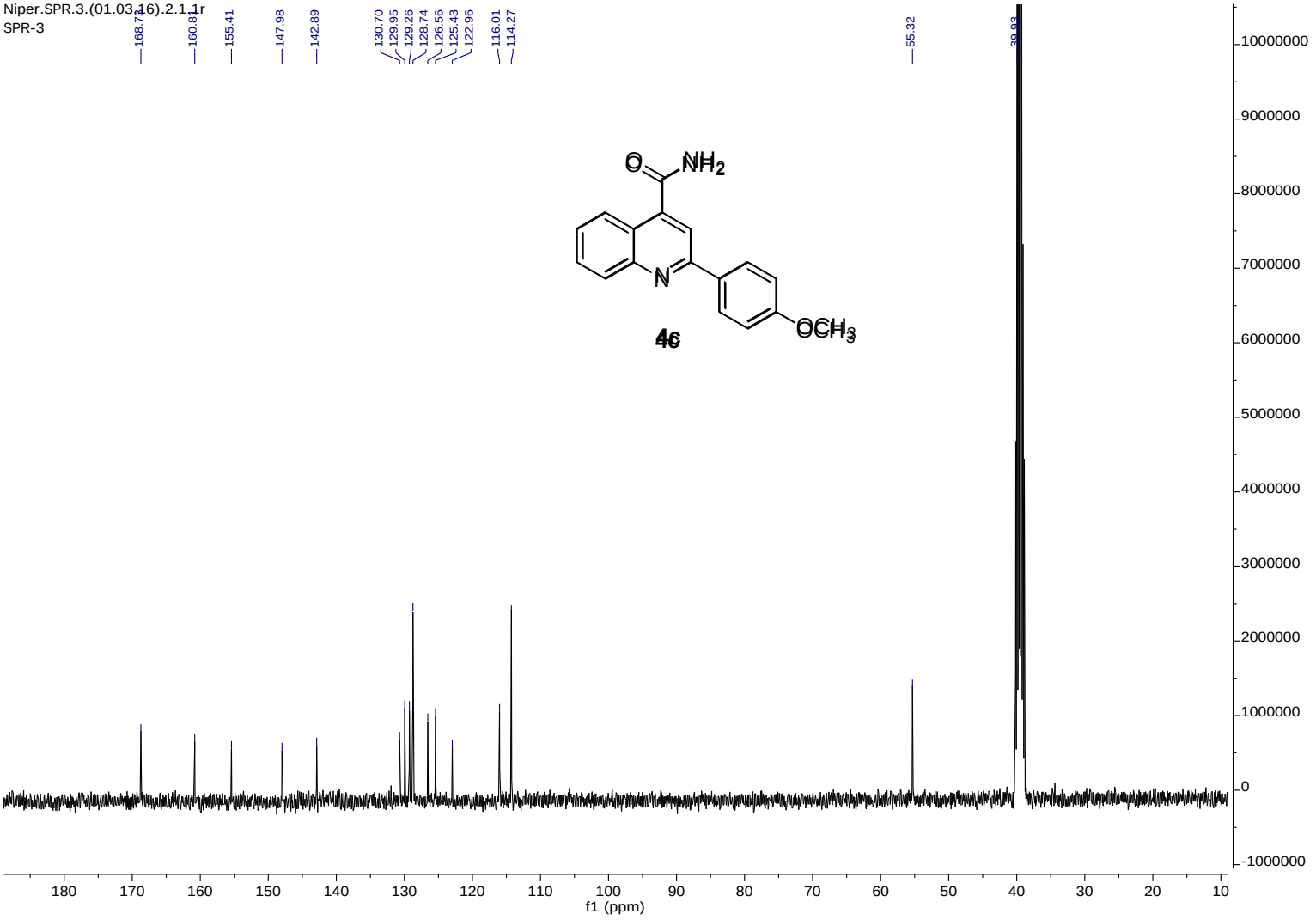


Fig. 6. ^{13}C NMR of 2-(4-methoxyphenyl)quinoline-4-carboxamide (**4c**) (DMSOd_6, 100 MHz)

 ©ARKAT USA, Inc

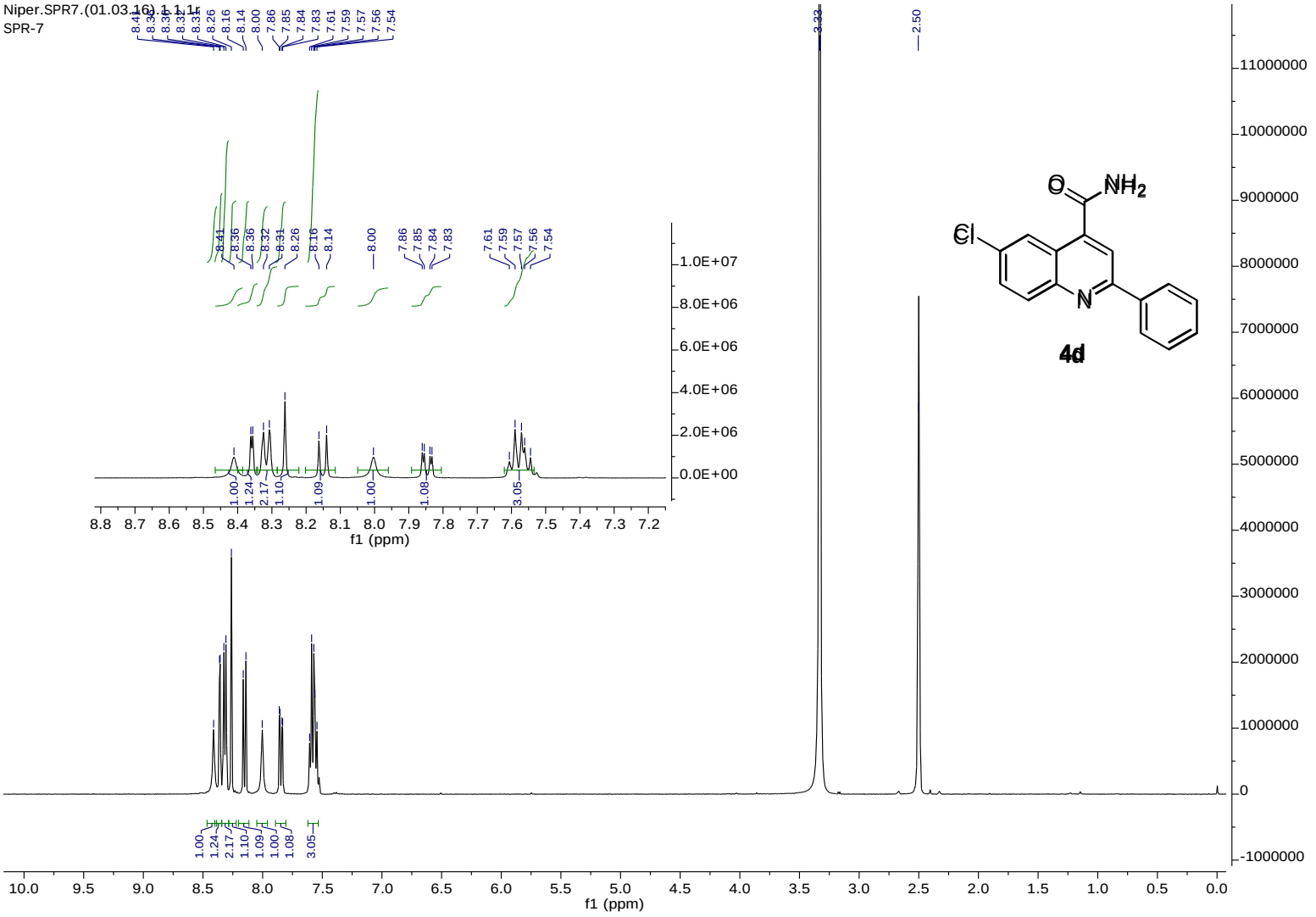


Fig. 7. ^{1}H NMR of 6-chloro-2-phenylquinoline-4-carboxamide (**4d**) ($DMSOd_6$, 400 MHz)

 ©ARKAT USA, Inc

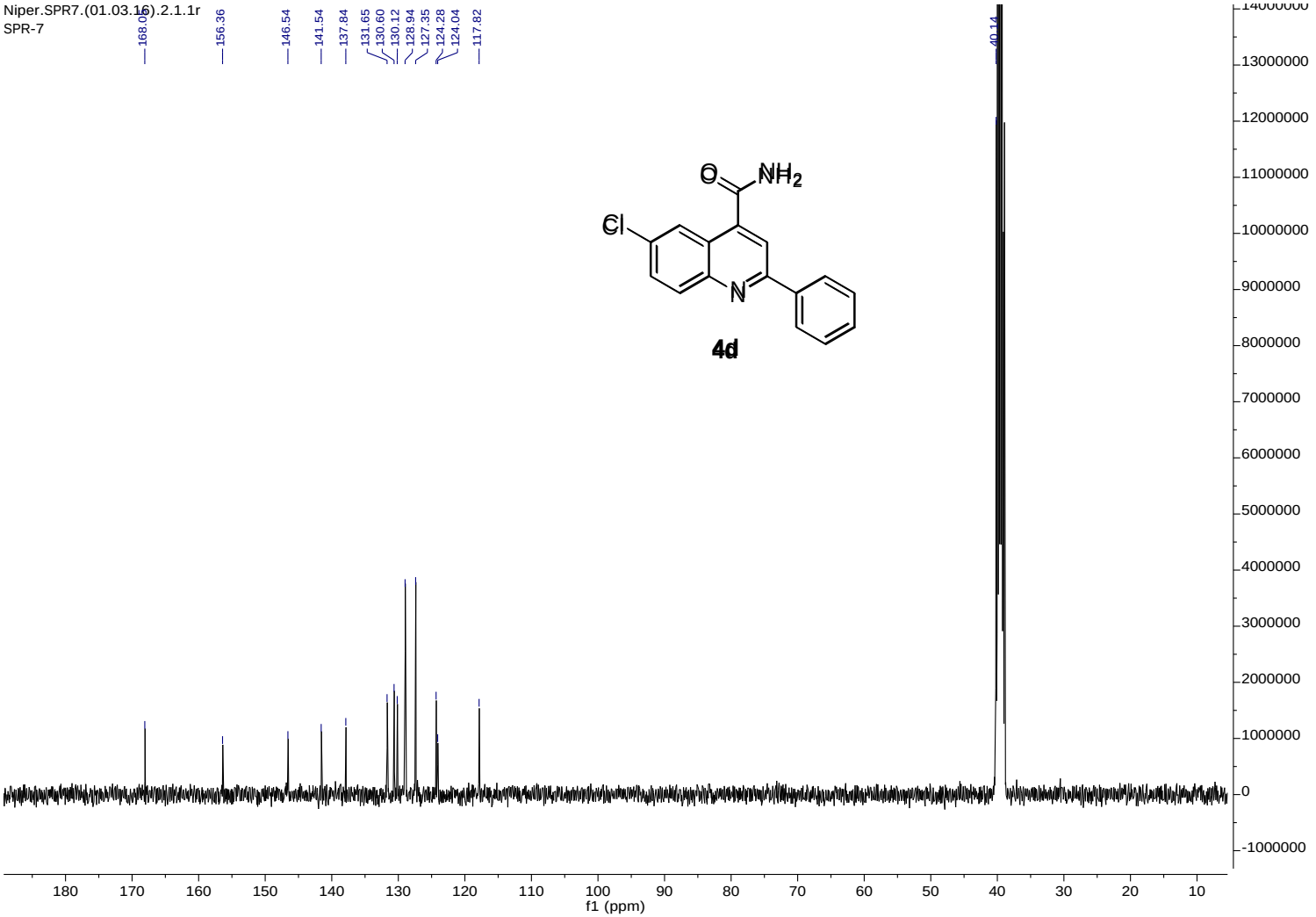


Fig. 8. ^{13}C NMR of 6-chloro-2-phenylquinoline-4-carboxamide (**4d**) (DMSOd_6, 100 MHz)

 ©ARKAT USA, Inc

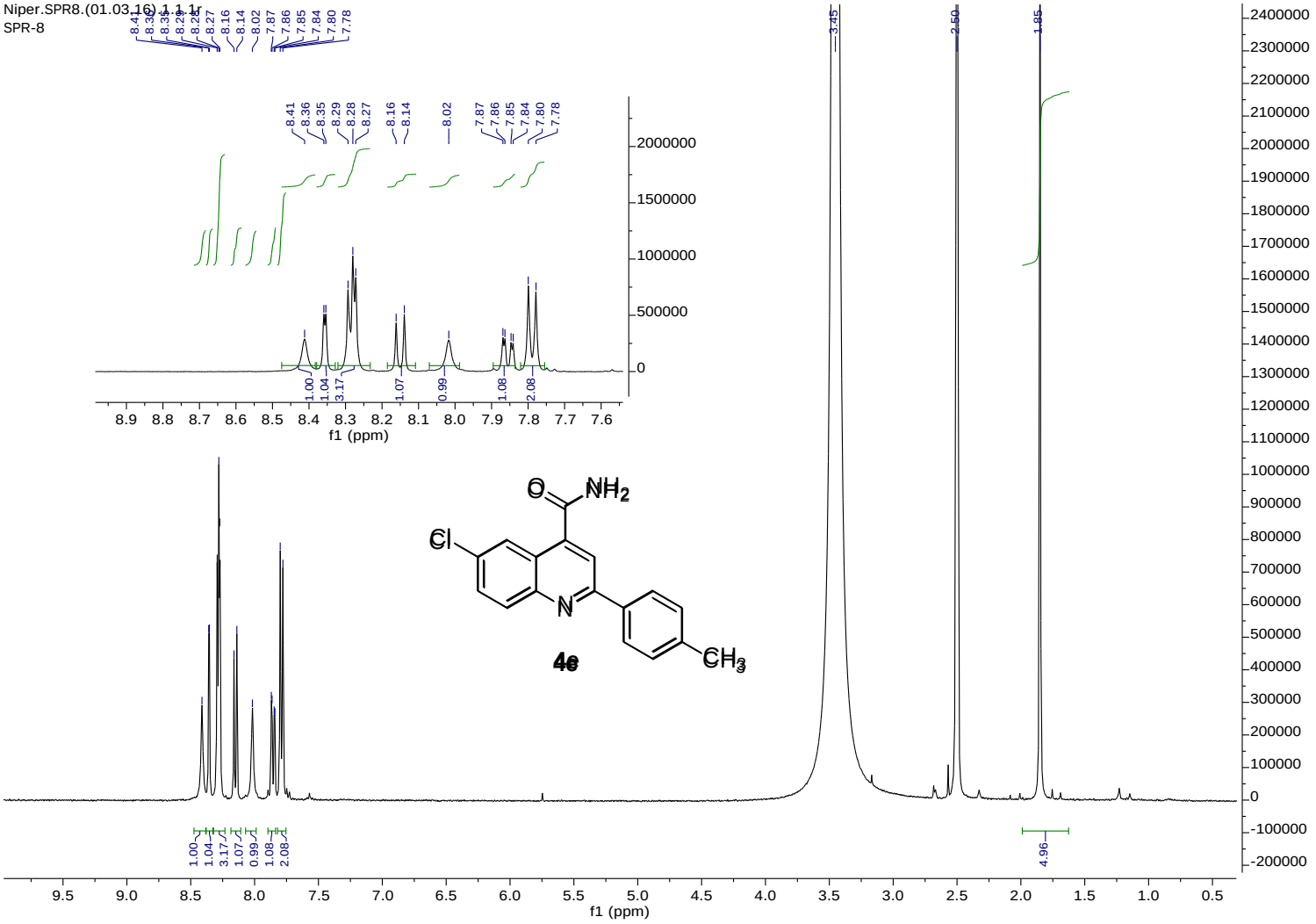


Fig. 9. ^{1}H NMR of 6-chloro-2-(*p*-tolyl)quinoline-4-carboxamide (**4e**) (DMSOd_6, 400 MHz)

 ©ARKAT USA, Inc

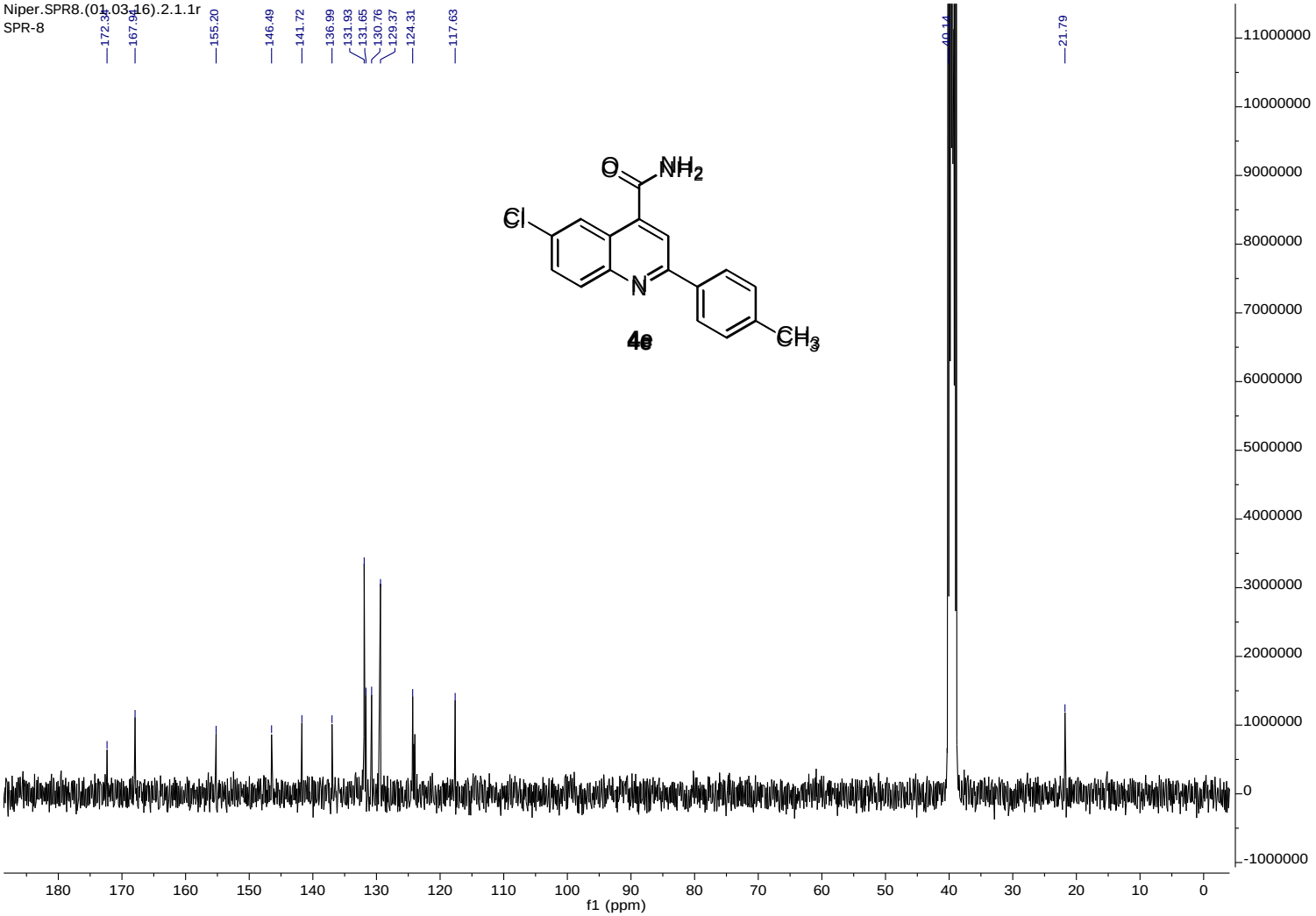


Fig. 10. ^{13}C NMR of 6-chloro-2-(*p*-tolyl)quinoline-4-carboxamide **(4e)** ($DMSOd_6$, 100 MHz)

 ©ARKAT USA, Inc

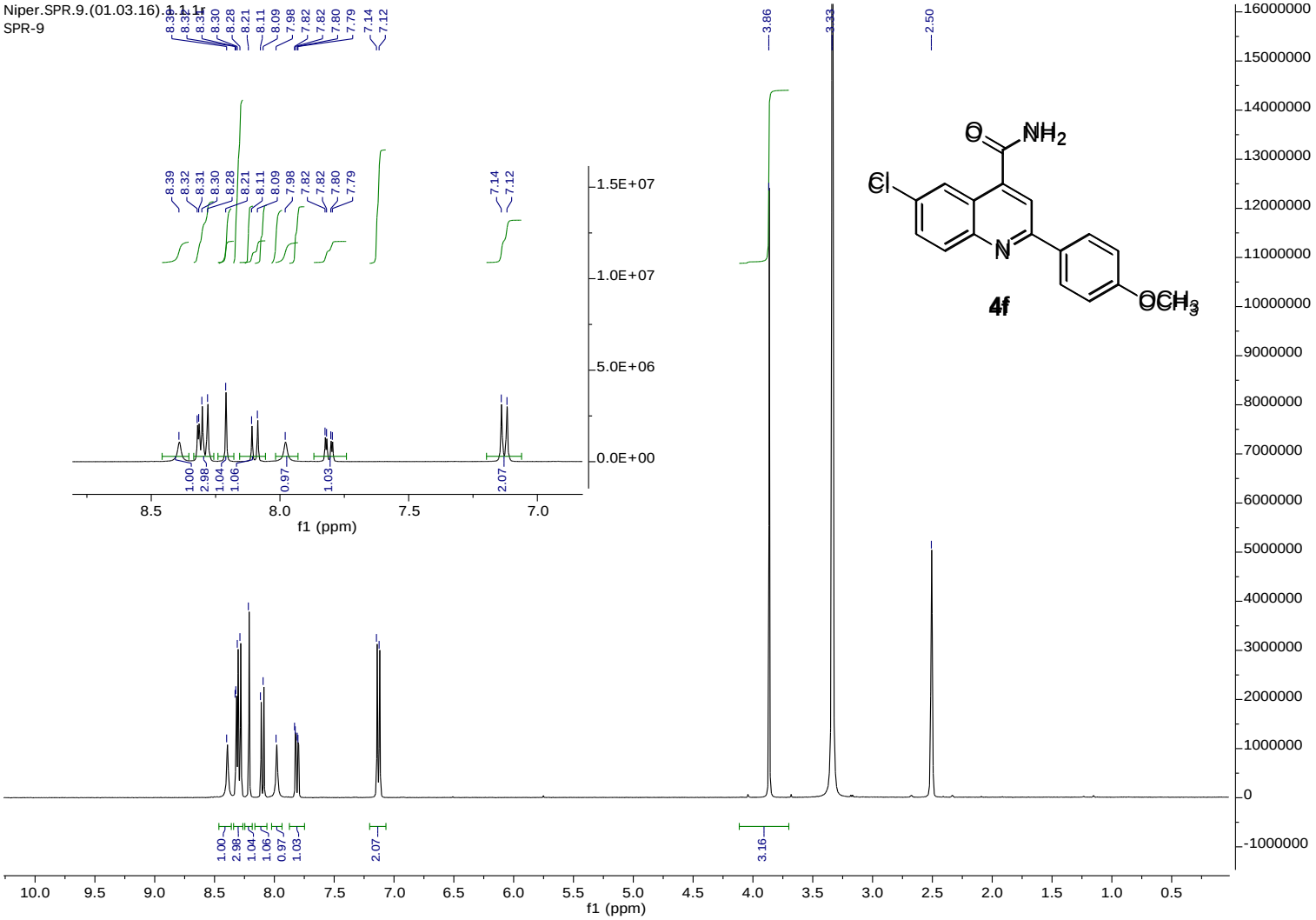


Fig. 11. ^{1}H NMR of 6-chloro-2-(4-methoxyphenyl)quinoline-4-carboxamide (**4f**) (DMSOd_6, 400 MHz)

 ©ARKAT USA, Inc

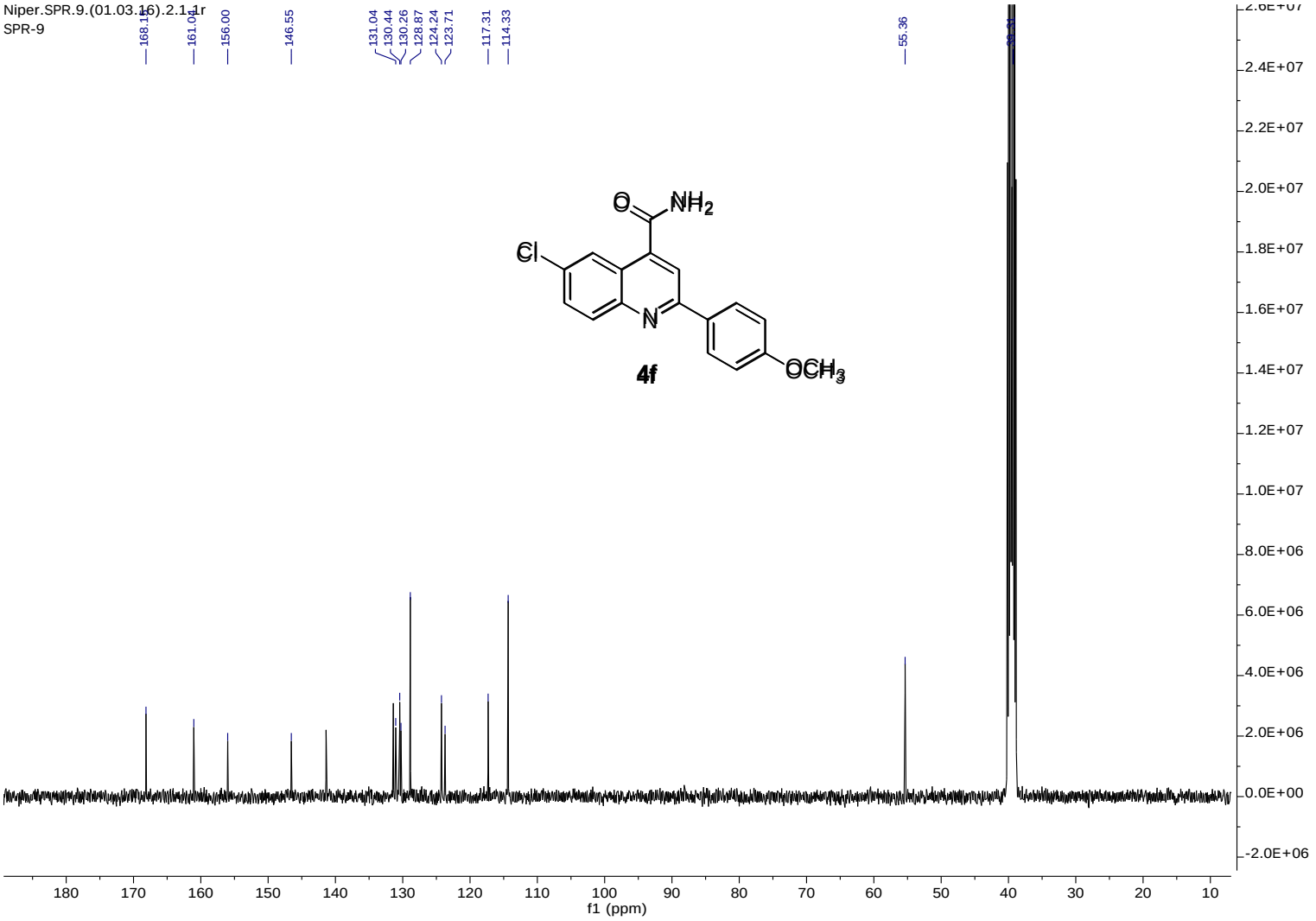


Fig. 12. ^{13}C NMR of 6-chloro-2-(4-methoxyphenyl)quinoline-4-carboxamide (**4f**) (DMSOd_6, 100 MHz)

 ©ARKAT USA, Inc