

**Neolignans and Sesquiterpenes from Leaves and Embryogenic Cultures
of *Ocotea catharinensis* (Lauraceae)**

**Mariko Funasaki,^a Ana Luísa L. Lordello,^b Ana Maria Viana,^c Claudete Santa-Catarina,^d
Eny I. S. Floh,^d Massayoshi Yoshida^{a,e} and Massuo J. Kato^{*,a}**

^aInstituto de Química, Universidade de São Paulo, CP 26077, 05513-970 São Paulo-SP, Brazil

^bDepartamento de Química, Universidade Federal do Paraná, CP 19081, 81531-990 Curitiba-PR, Brazil

^cDepartamento de Botânica, Centro de Ciências Biológicas, Universidade Federal de Santa Catarina,
88040-900 Florianópolis - SC, Brazil

^dInstituto de Biociências, Universidade de São Paulo, CP 11461, 05508-900 São Paulo-SP, Brazil

^eCentro de Biotecnologia da Amazônia, Av. Gov. Danilo de Matos Areosa, 690, 69075-351 Manaus-AM, Brazil

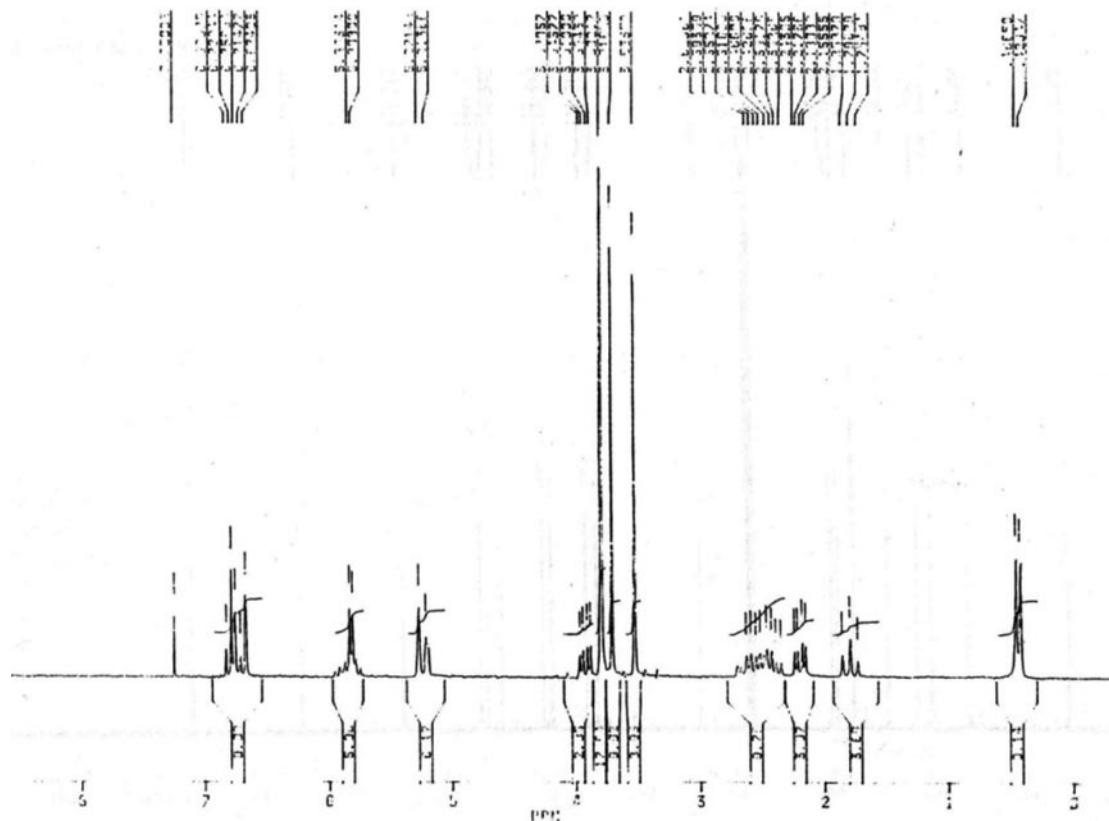


Figure S1. ¹H NMR spectrum of **1a** (200 MHz, CDCl₃).

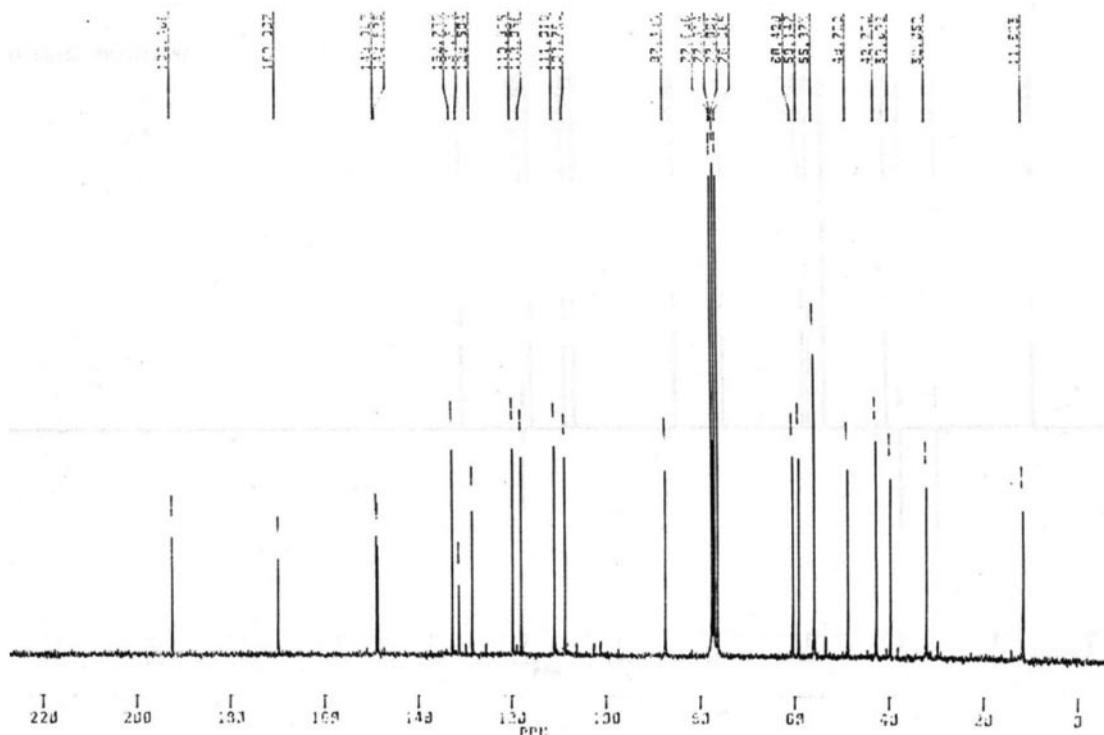


Figure S2. ^{13}C NMR spectrum of **1a** (50 MHz, CDCl_3).

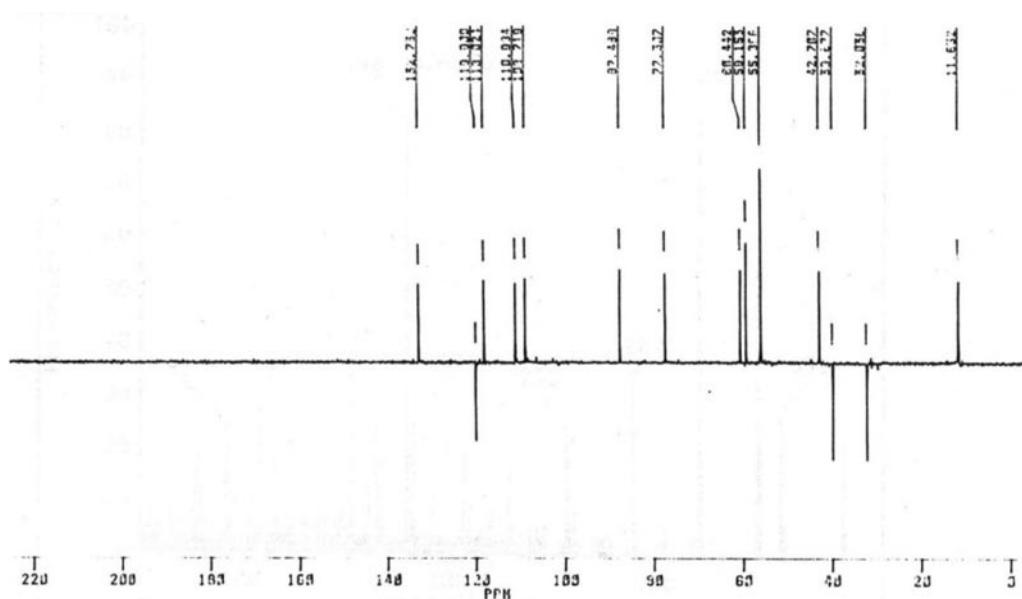


Figure S3. DEPT 135 ^{13}C NMR spectrum of **1a** (50 MHz, CDCl_3).

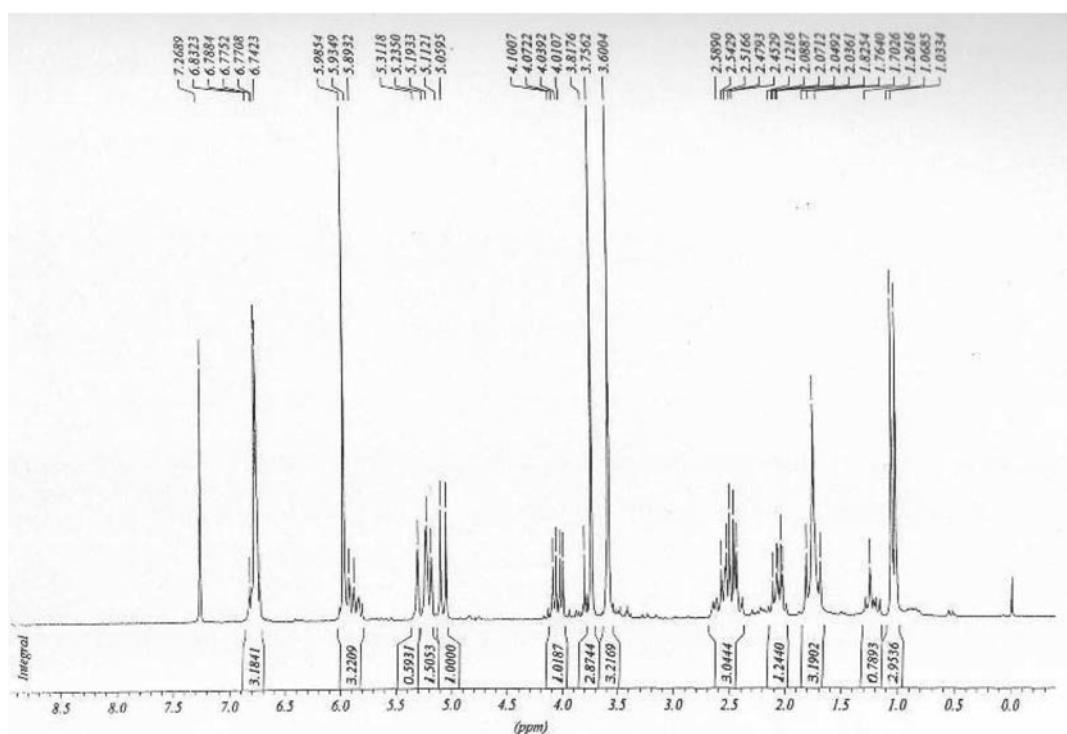
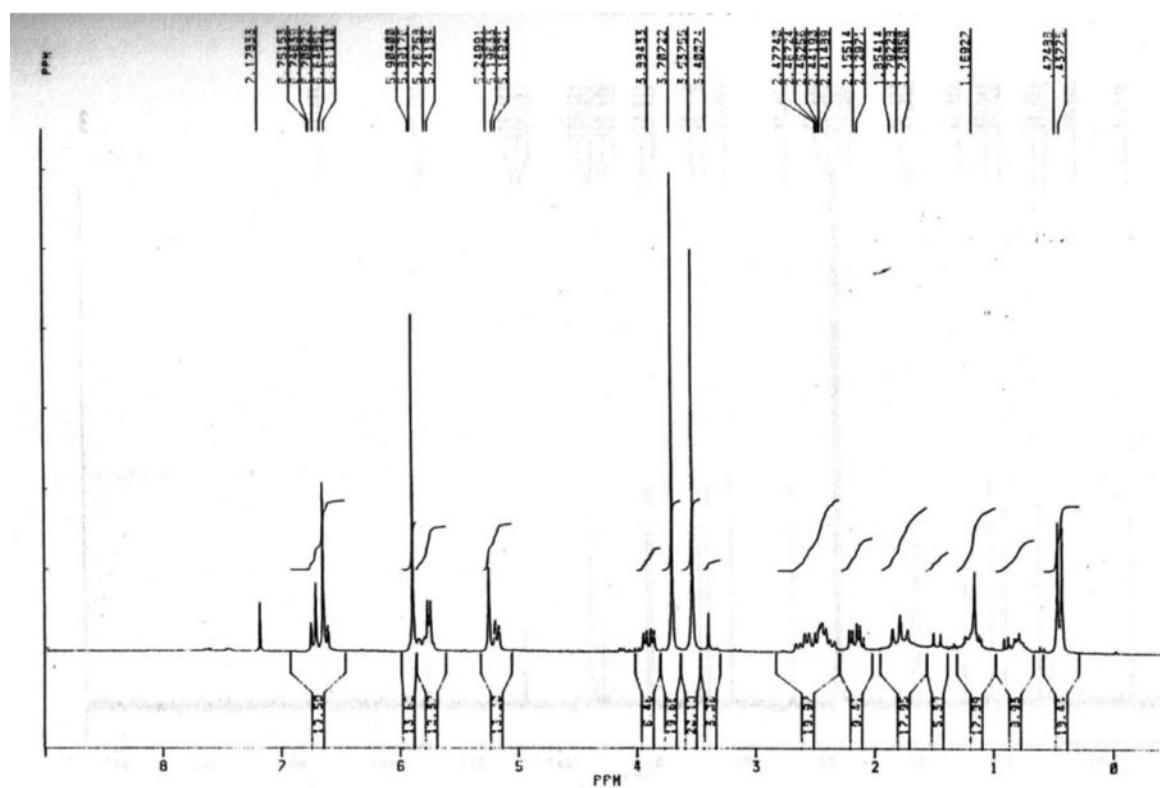


Figure S4. ^1H NMR spectrum of **1b** (200 MHz, CDCl_3).



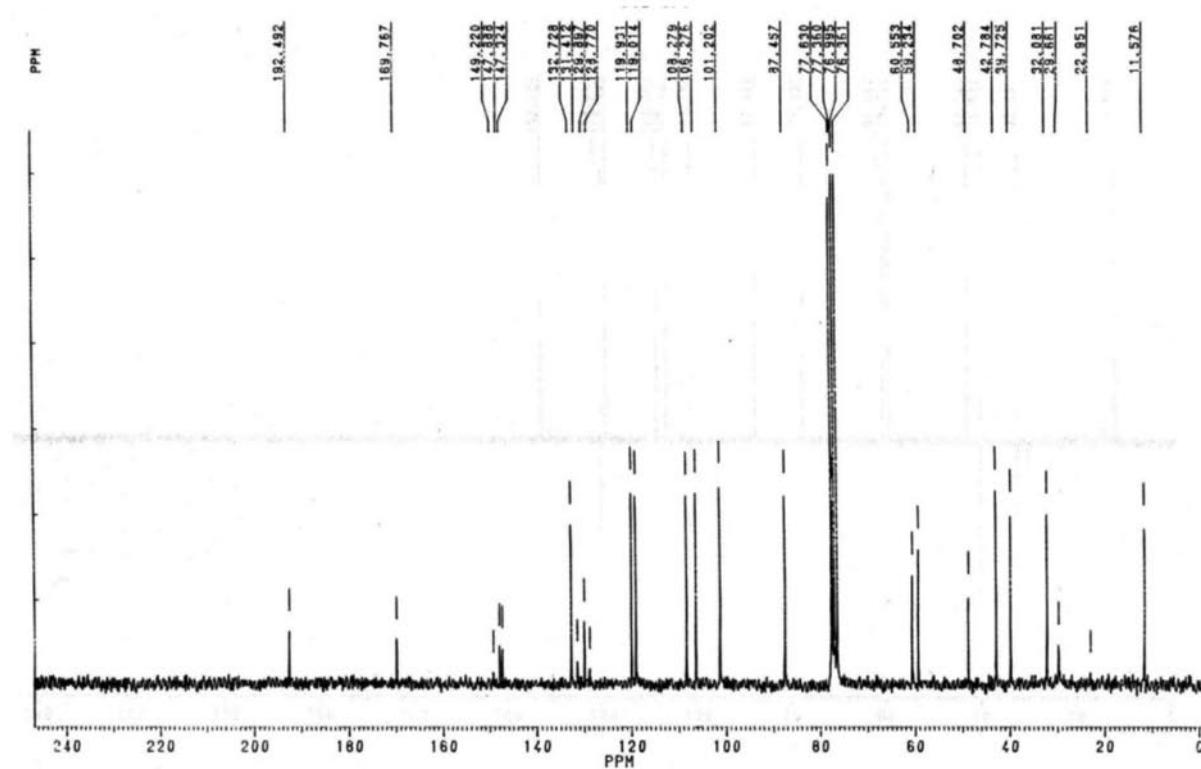


Figure S6. ^{13}C NMR spectrum of **1c** (50 MHz, CDCl_3).

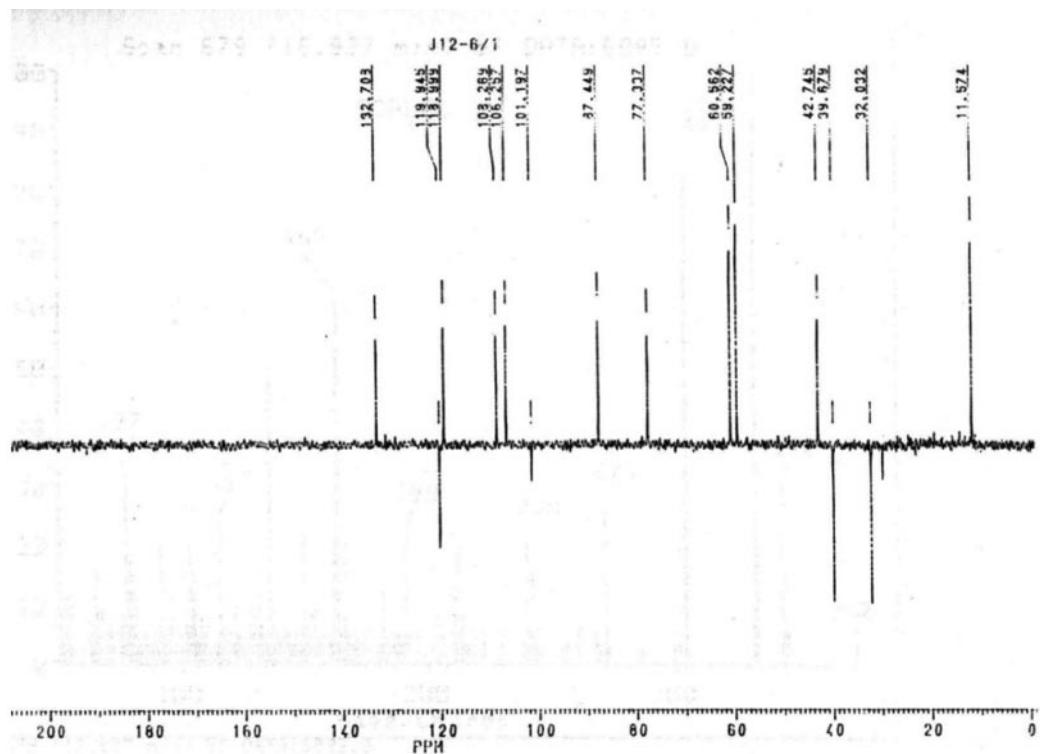


Figure S7. DEPT 135 ^{13}C NMR spectrum of **1c** (50 MHz, CDCl_3).

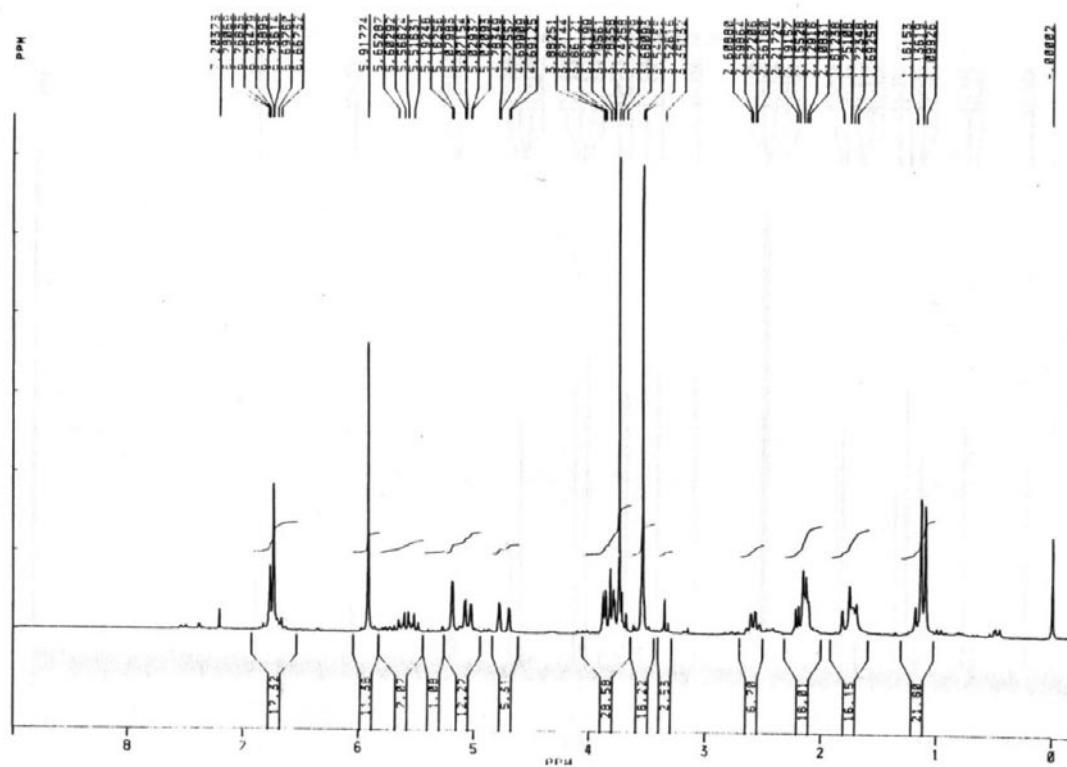


Figure S8. ^1H NMR spectrum of **1e** (200 MHz, CDCl_3).

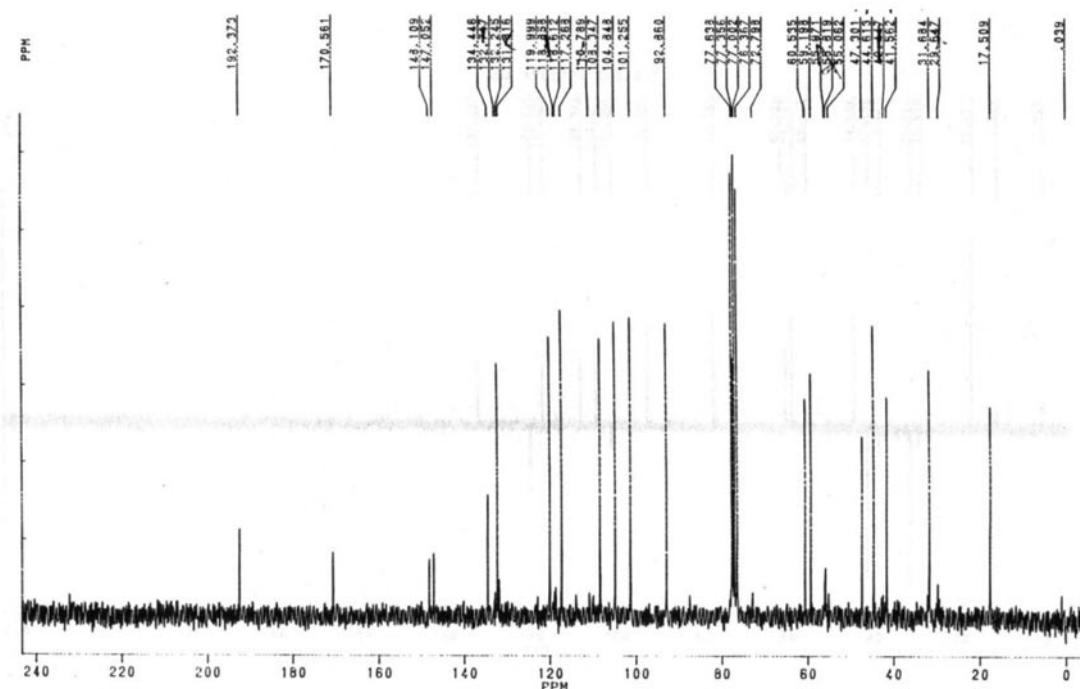


Figure S9. ^{13}C NMR spectrum of **1e** (50 MHz, CDCl_3).

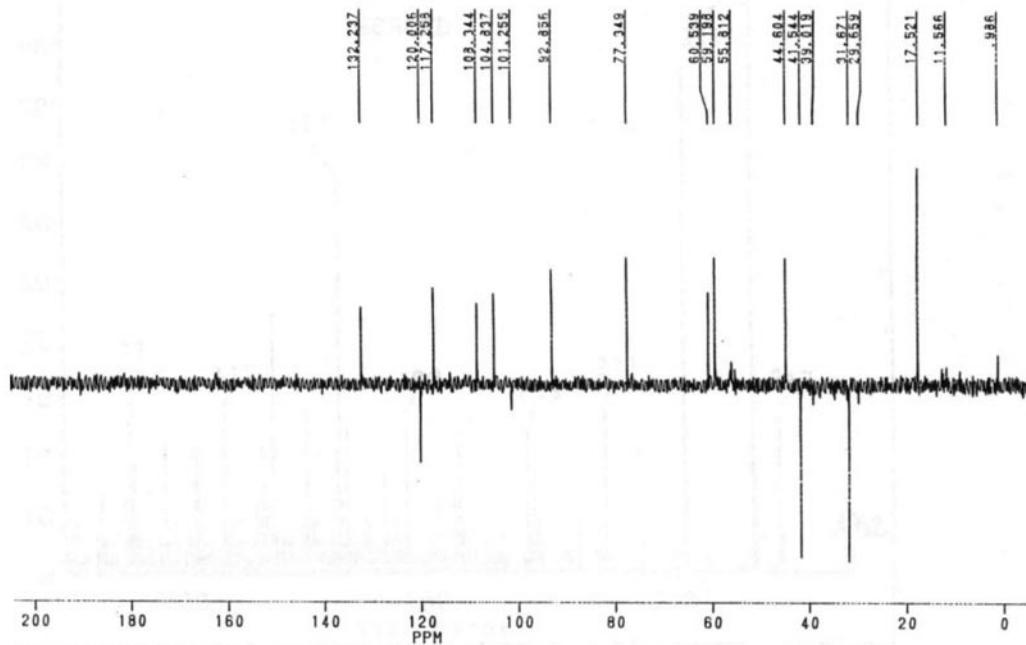


Figure S10. DEPT 135 ^{13}C NMR spectrum of **1e** (50 MHz, CDCl_3).

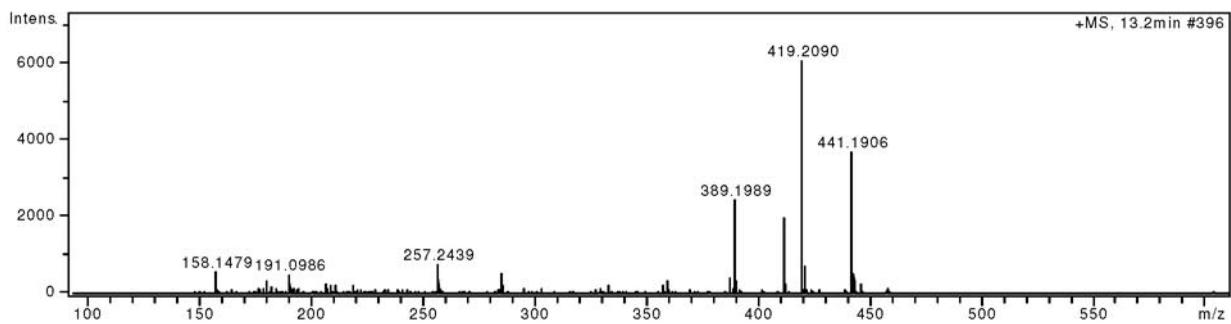


Figure S11. HRESIMS spectrum of **1e**.

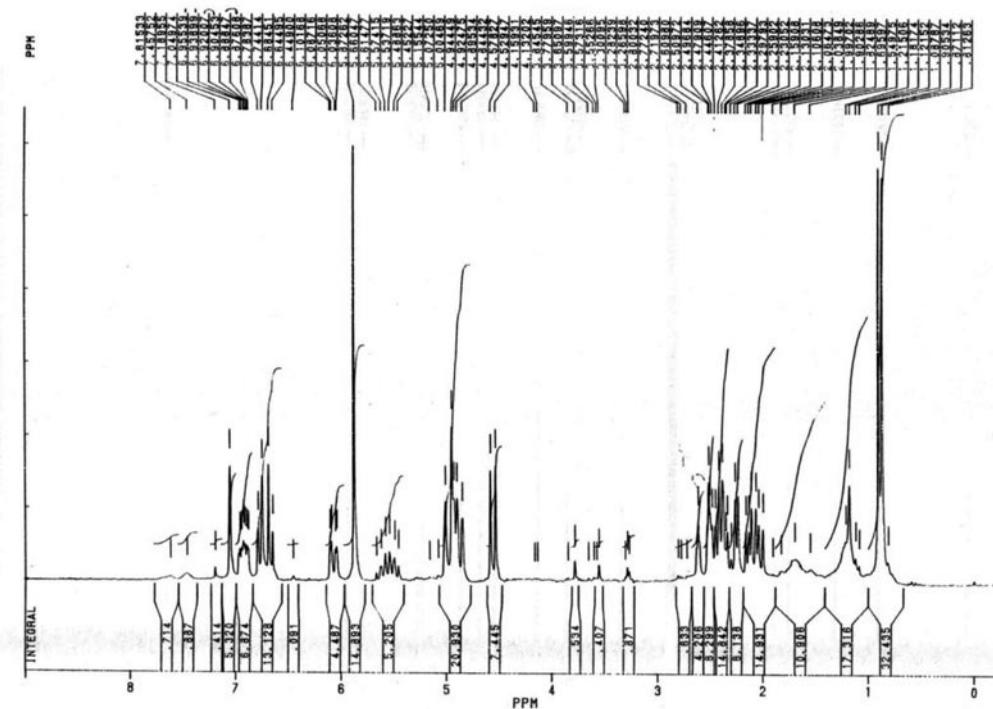


Figure S12. ^1H NMR spectrum of **2a** (200 MHz, CDCl_3).

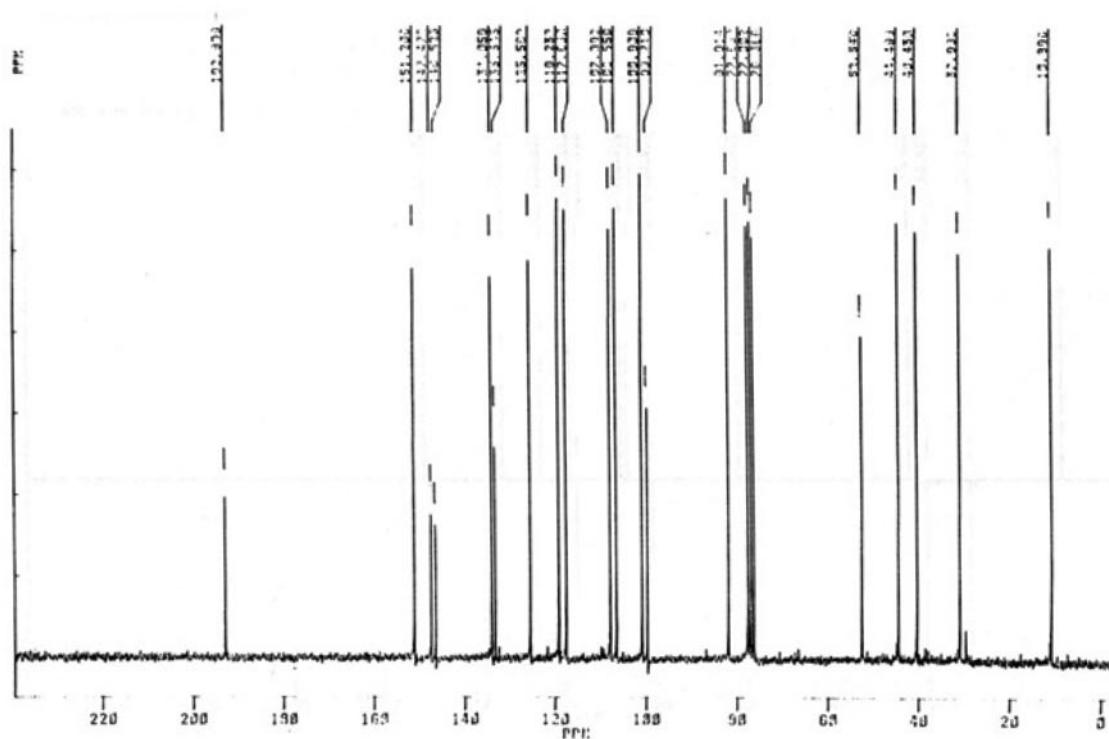


Figure S13. ^{13}C NMR spectrum of **2a** (50 MHz, CDCl_3).

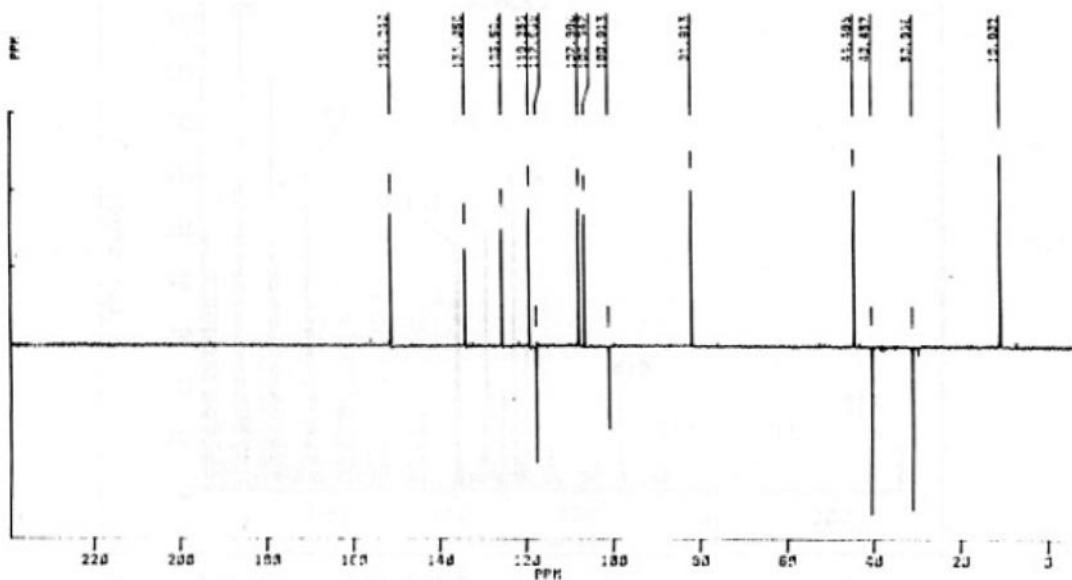


Figure S14. DEPT 135 ^{13}C NMR spectrum of **2a** (50 MHz, CDCl_3).

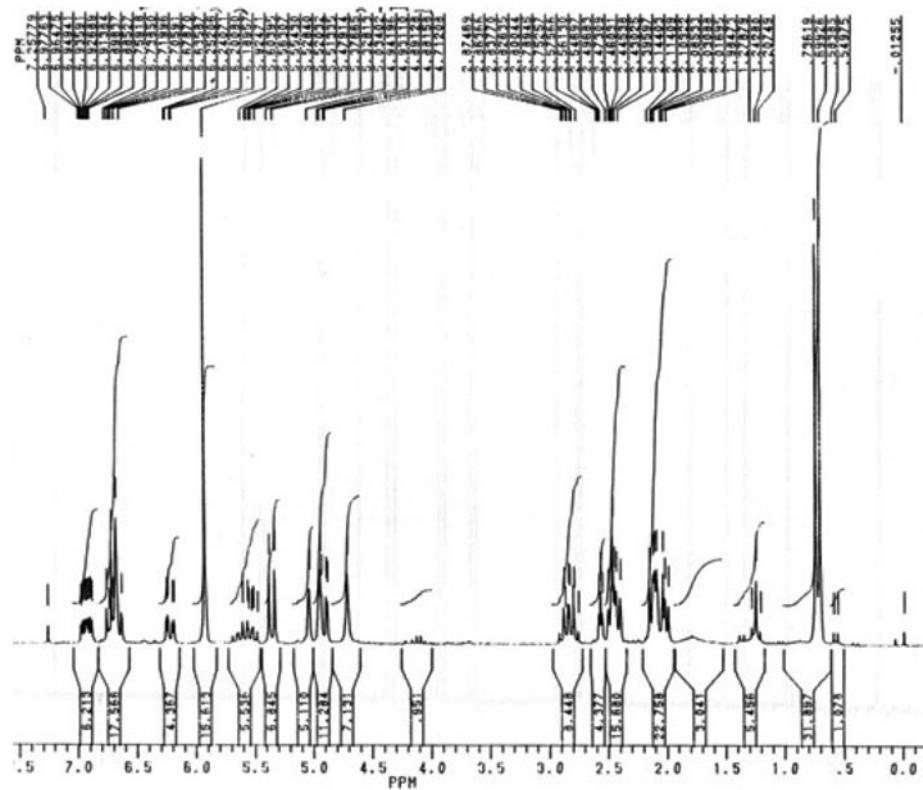


Figure S15. ^1H NMR spectrum of **2b** (200 MHz, CDCl_3).

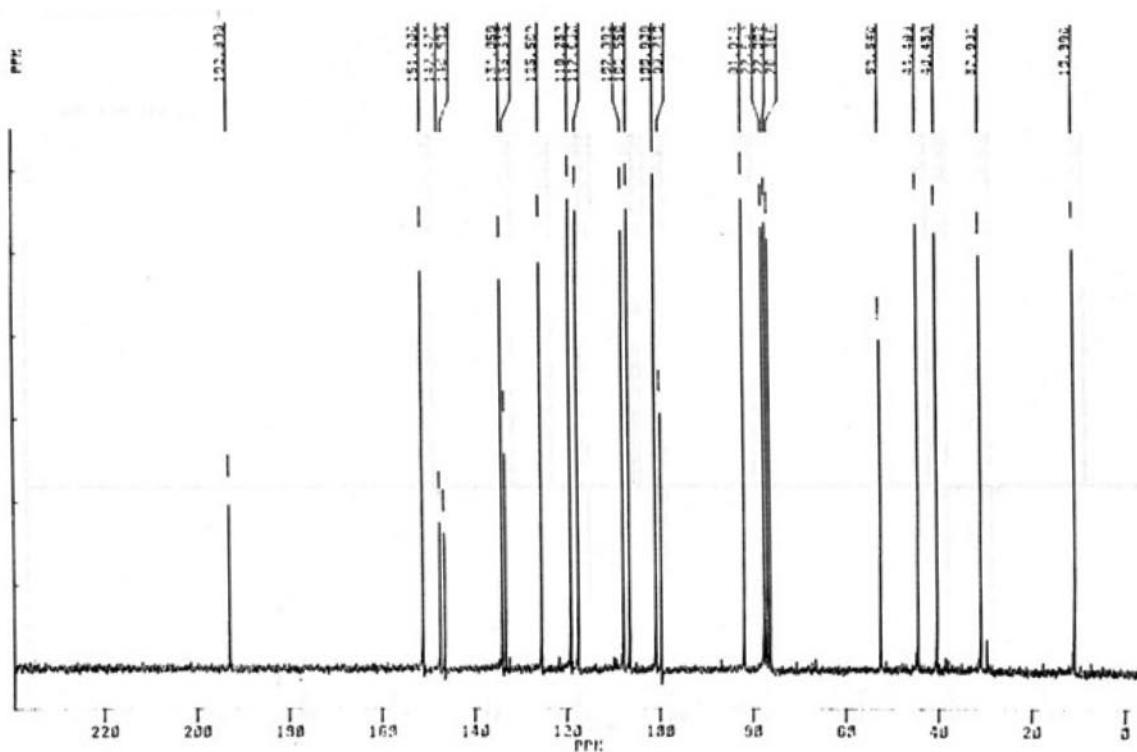


Figure S16. ¹³C NMR spectrum of **2b** (50 MHz, CDCl₃).

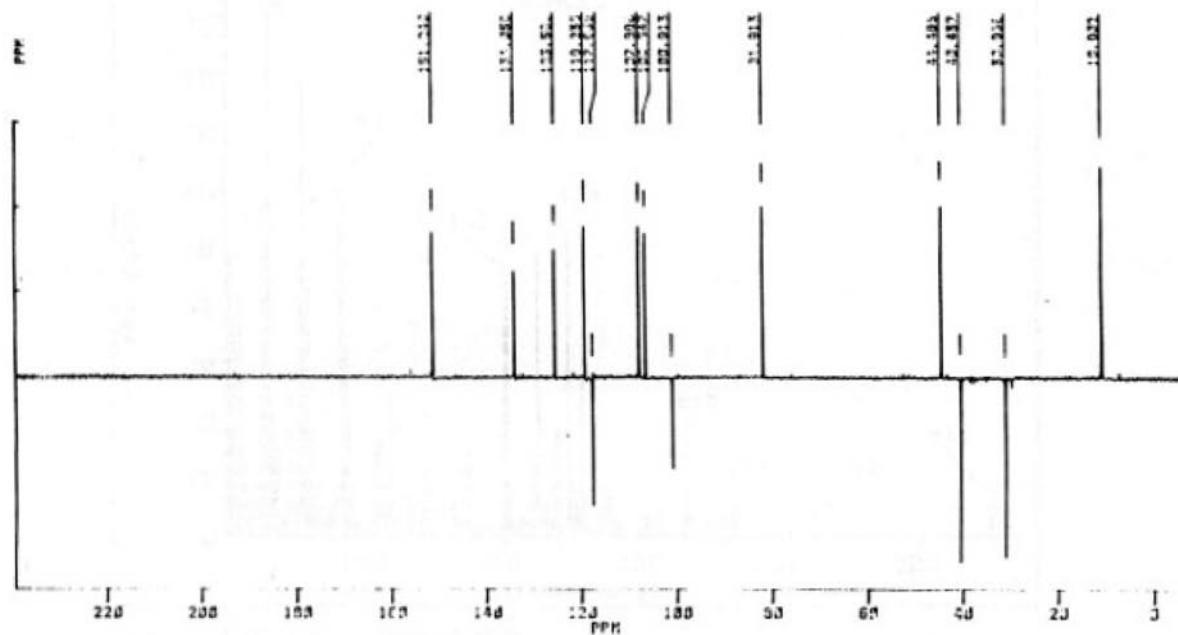


Figure S17. DEPT 135 ¹³C NMR spectrum of **2b** (50 MHz, CDCl₃).

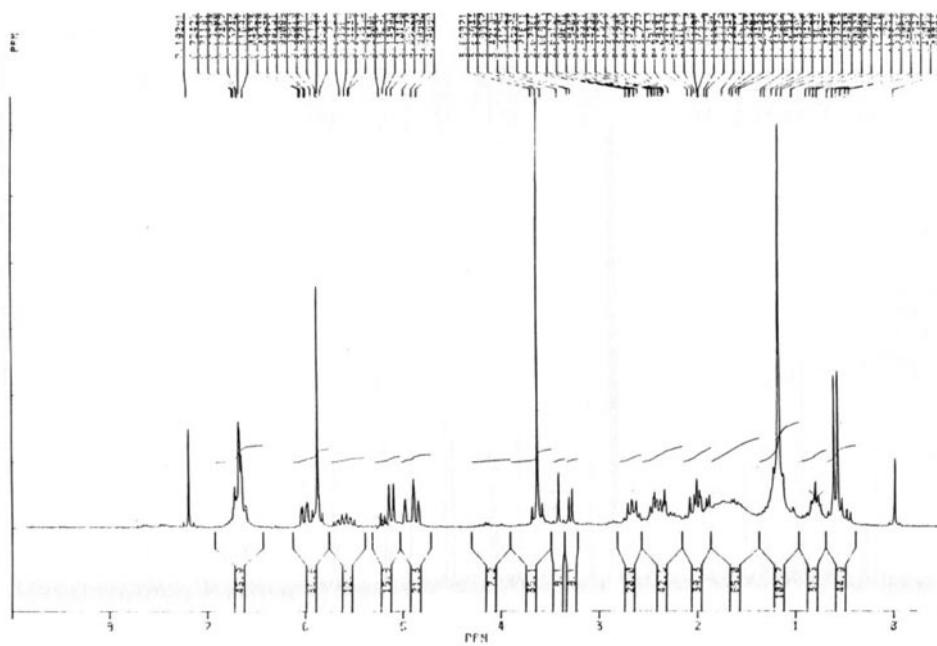


Figure S18. ^1H NMR spectrum of **2c** (200 MHz, CDCl_3).

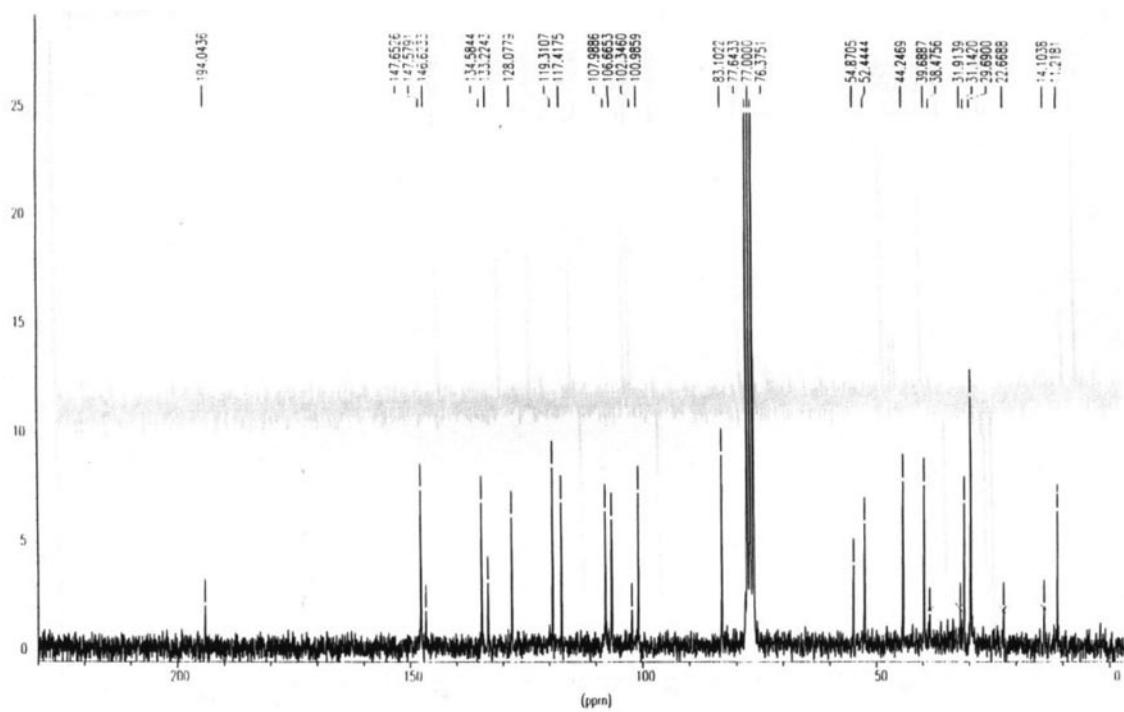


Figure S19. ^{13}C NMR spectrum of **2c** (50 MHz, CDCl_3).

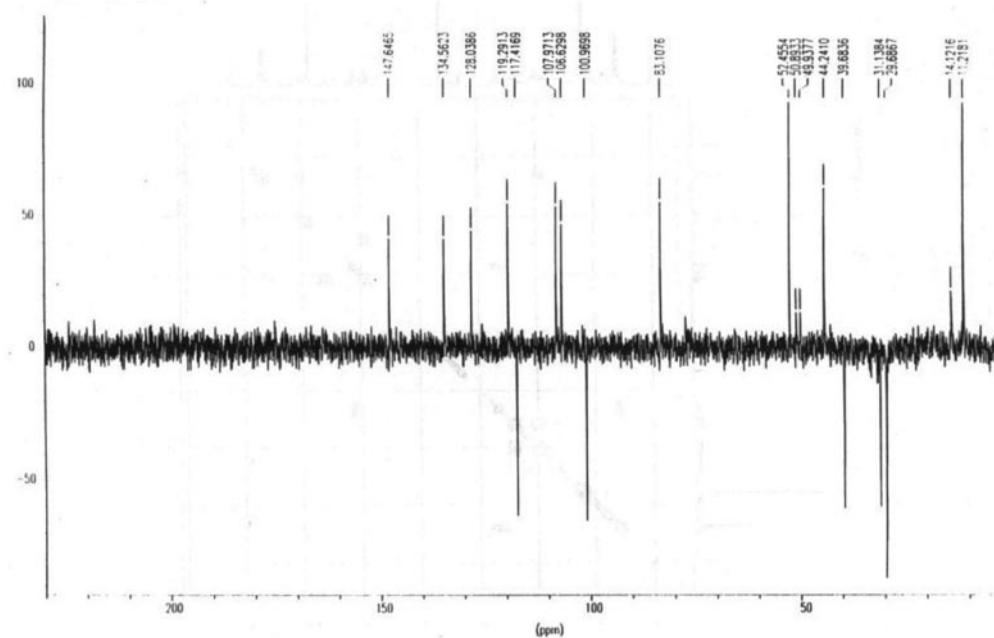


Figure S20. DEPT 135 ¹³C NMR spectrum of **2c** (50 MHz, CDCl₃).

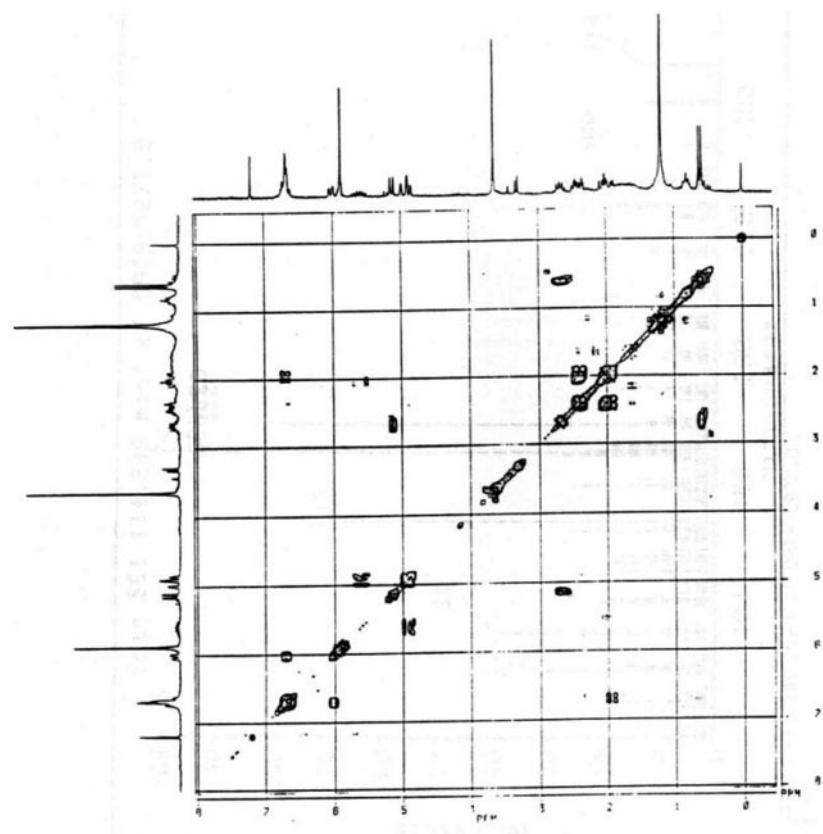


Figure S21. 2D COSY ¹³C NMR spectrum of **2c** (200 MHz, CDCl₃).

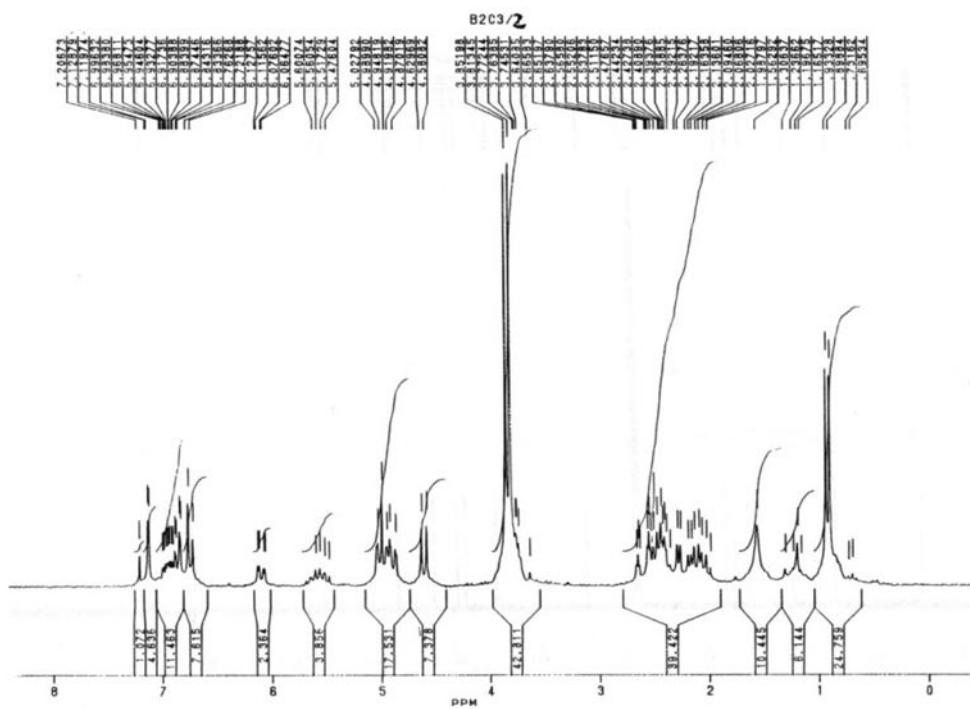


Figure S22. ^1H NMR spectrum of **2d** (200 MHz, CDCl_3).

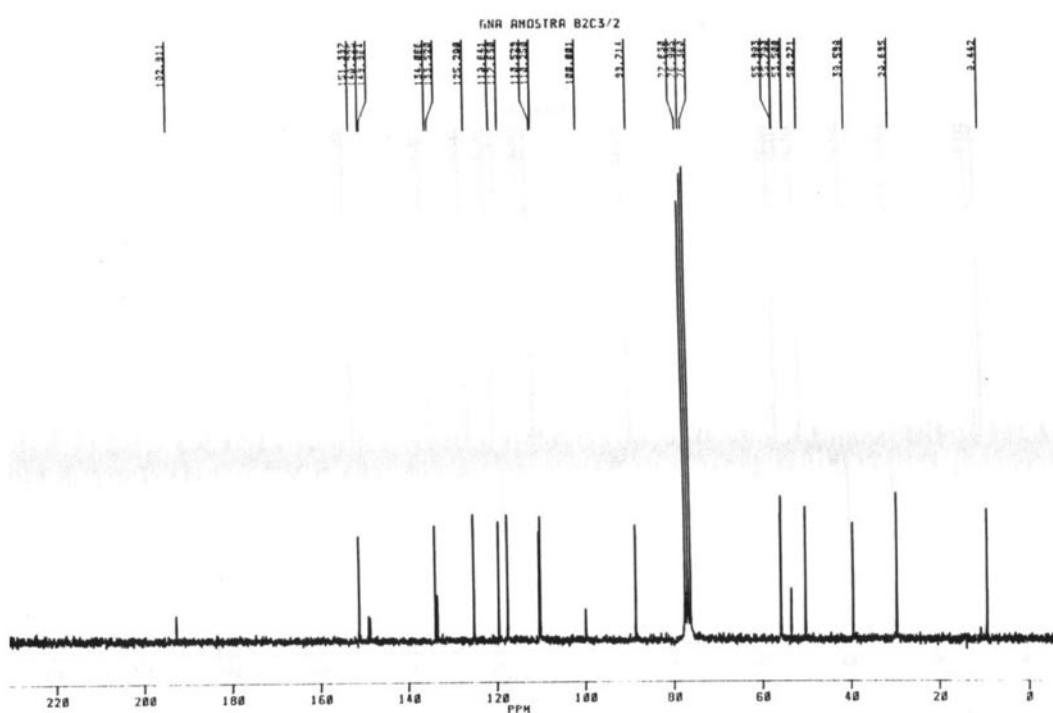


Figure S23. ^{13}C NMR spectrum of **2d** (50 MHz, CDCl_3).

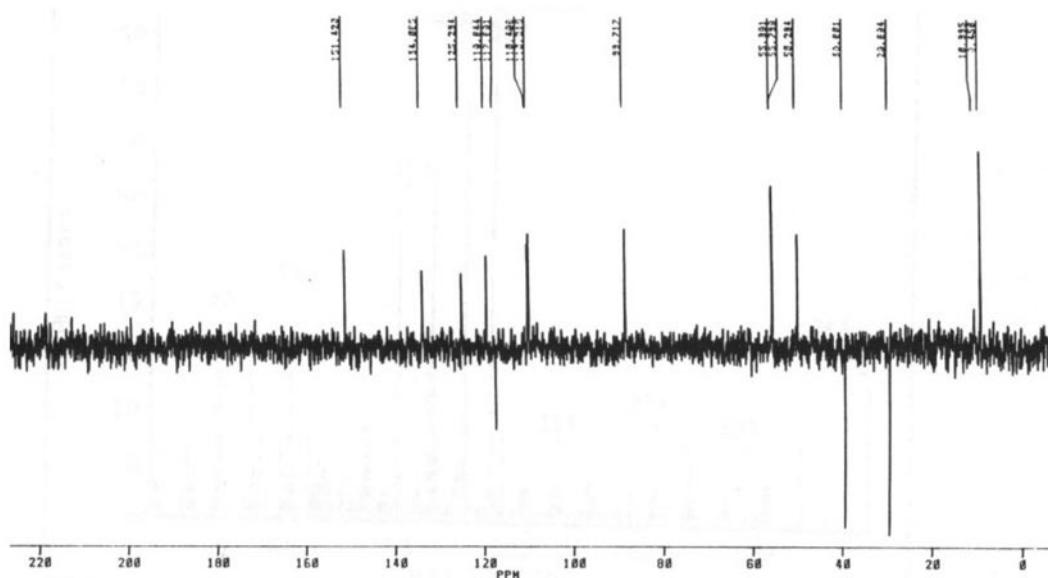


Figure S24. DEPT 135 ^{13}C NMR spectrum of **2d** (50 MHz, CDCl_3).

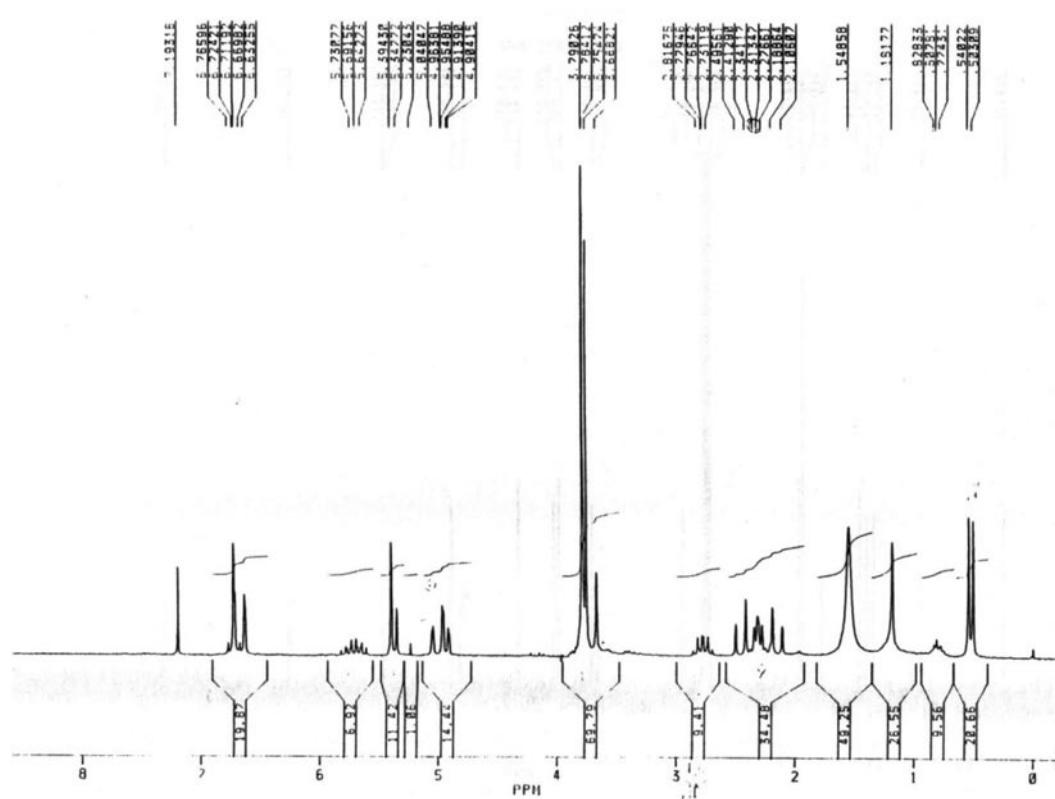


Figure S25. ^1H NMR spectrum of **2f** (200 MHz, CDCl_3).

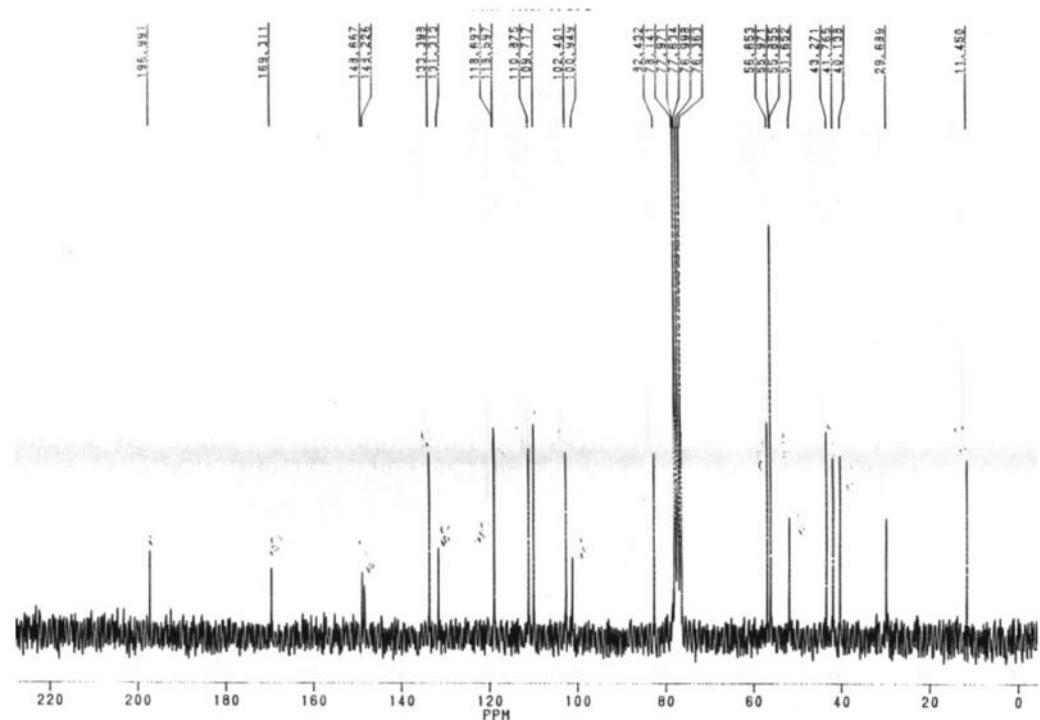


Figure S26. ^{13}C NMR spectrum of **2f** (50 MHz, CDCl_3).

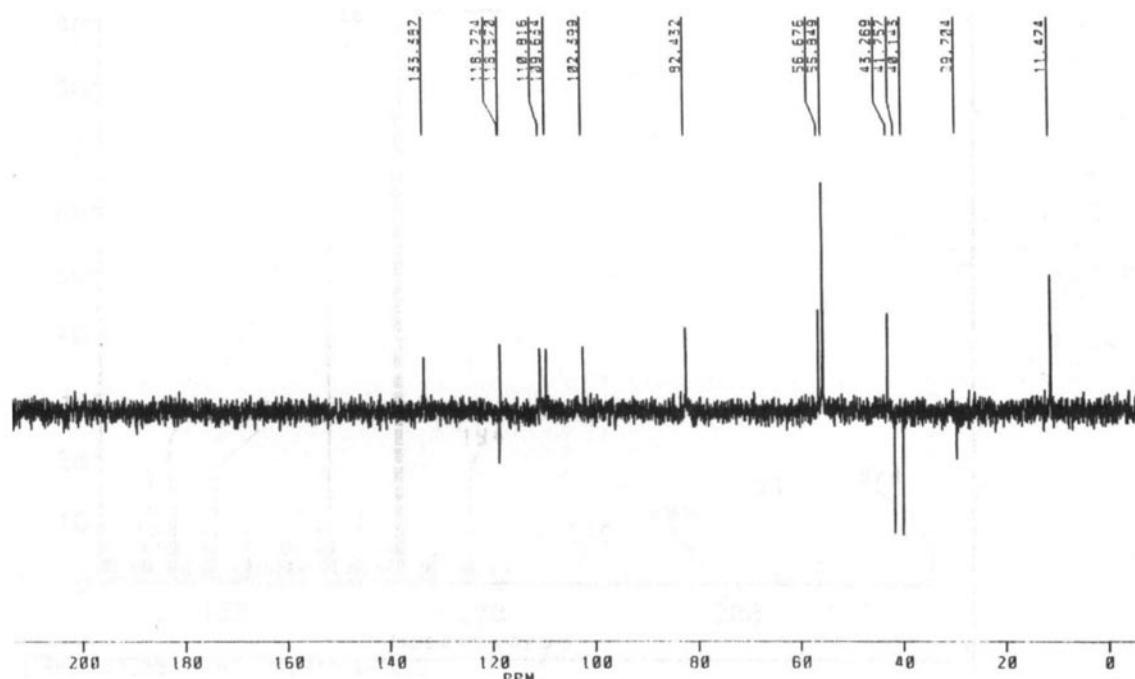


Figure S27. DEPT 135 ^{13}C NMR spectrum of **2f** (50 MHz, CDCl_3).

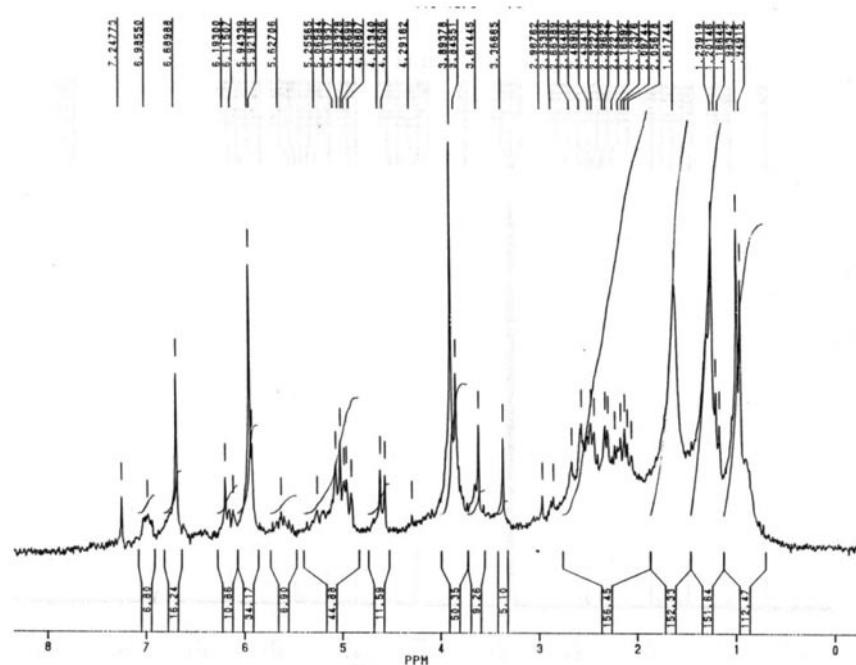


Figure S28. ^1H NMR spectrum of **2g** (200 MHz, CDCl_3).

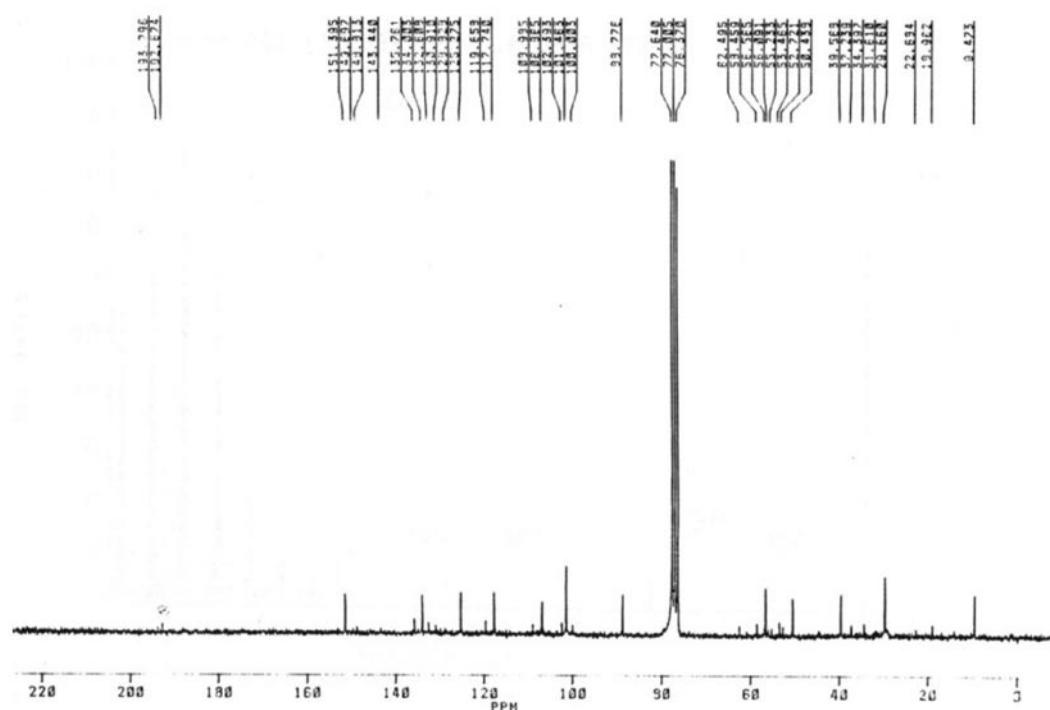


Figure S29. ^{13}C NMR spectrum of **2g** (50 MHz, CDCl_3).

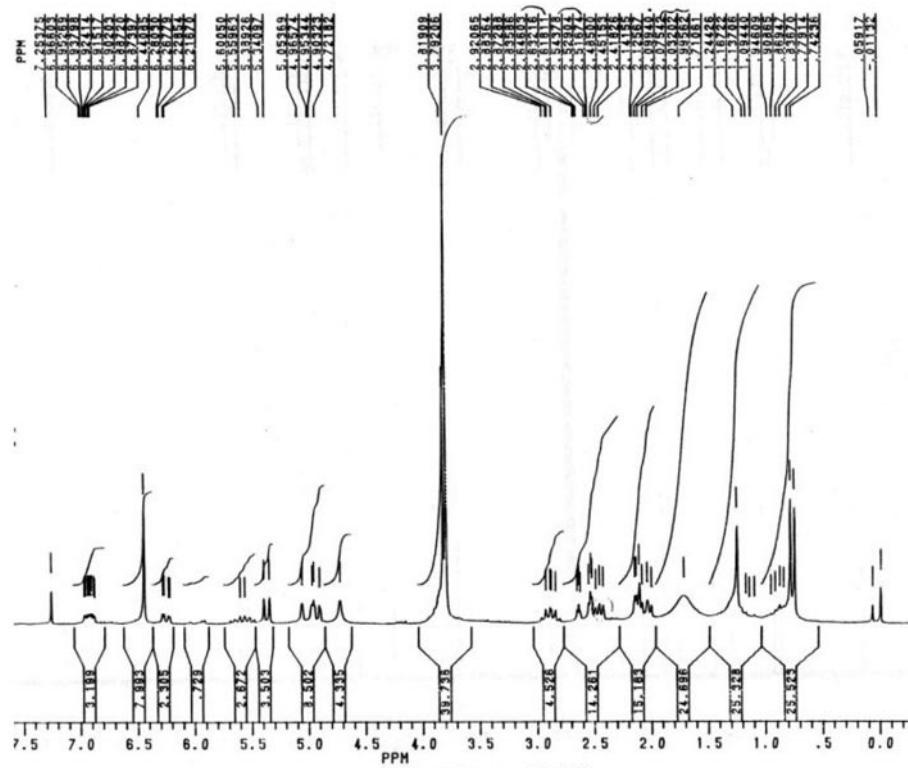


Figure S30. ^1H NMR spectrum of **2h** (200 MHz, CDCl_3).

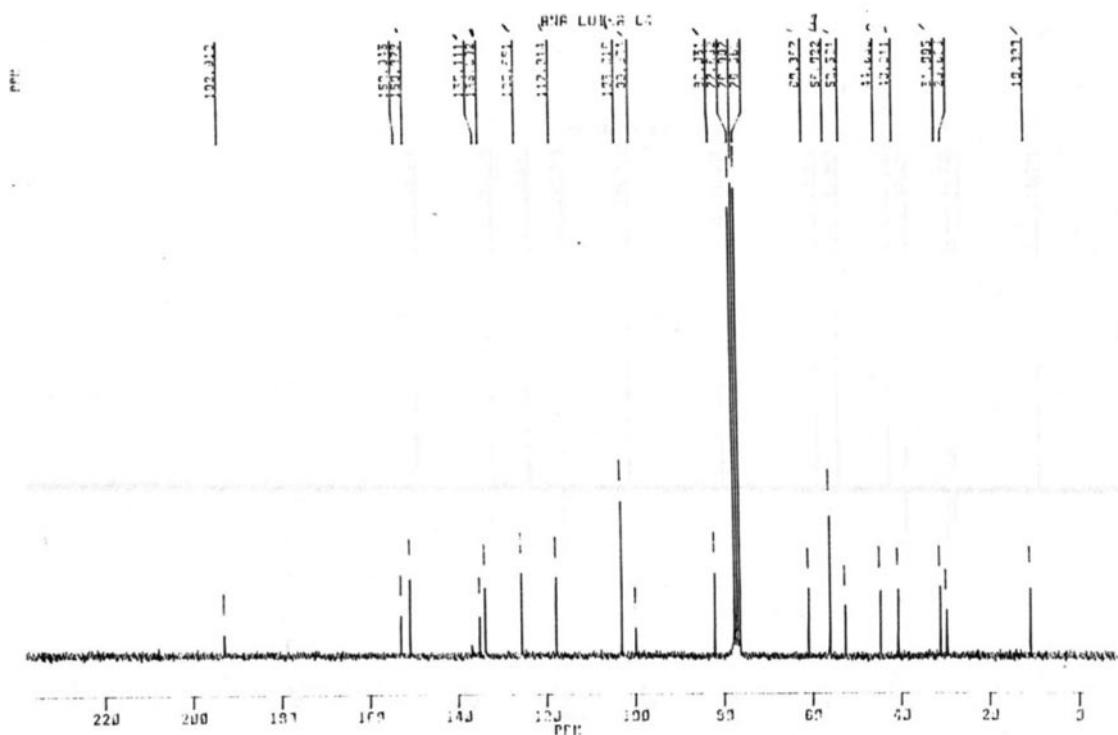


Figure S31. ^{13}C NMR spectrum of **2h** (50 MHz, CDCl_3).

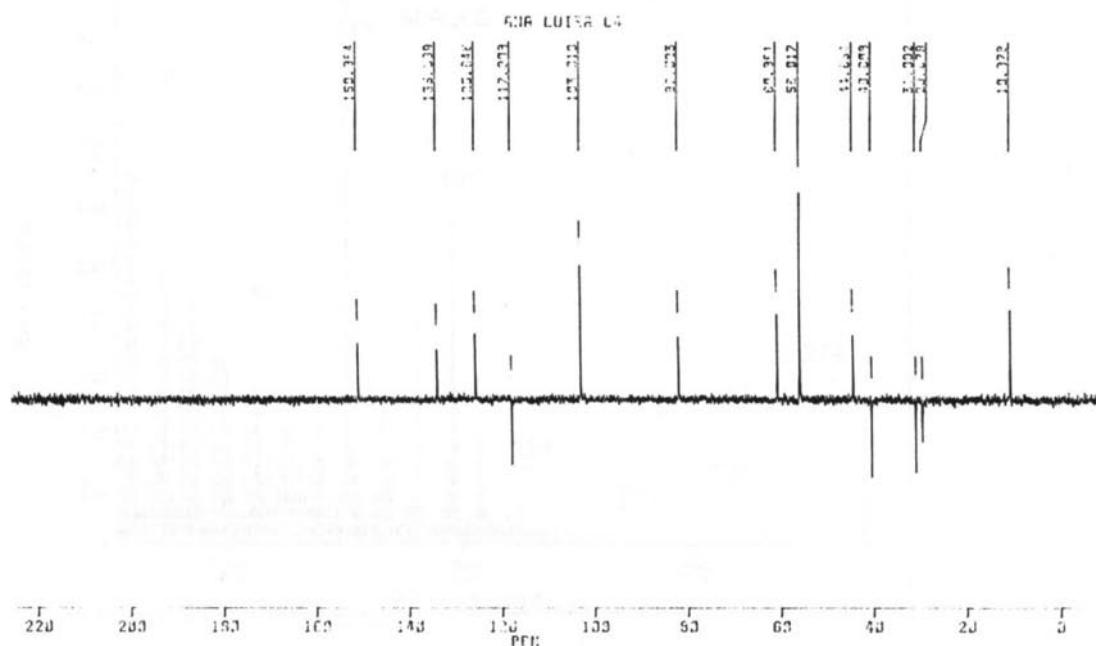


Figure S32. DEPT 135 ¹³C NMR spectrum of **2h** (50 MHz, CDCl₃).

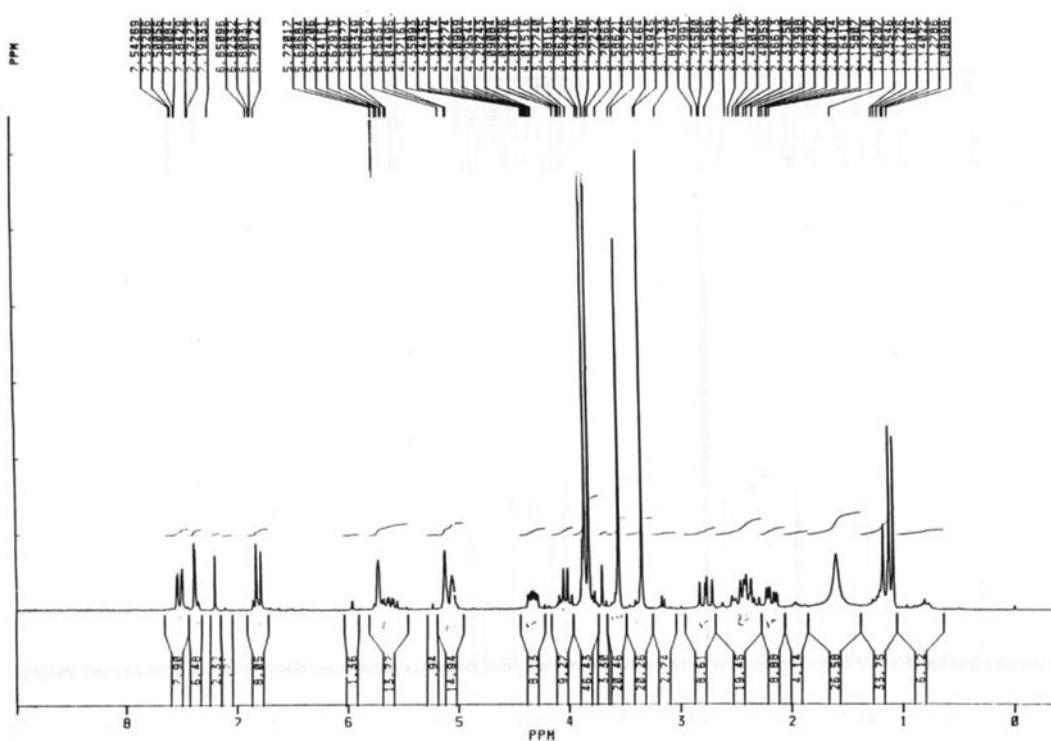


Figure S33. ¹H NMR spectrum of **3b** (200 MHz, CDCl₃).

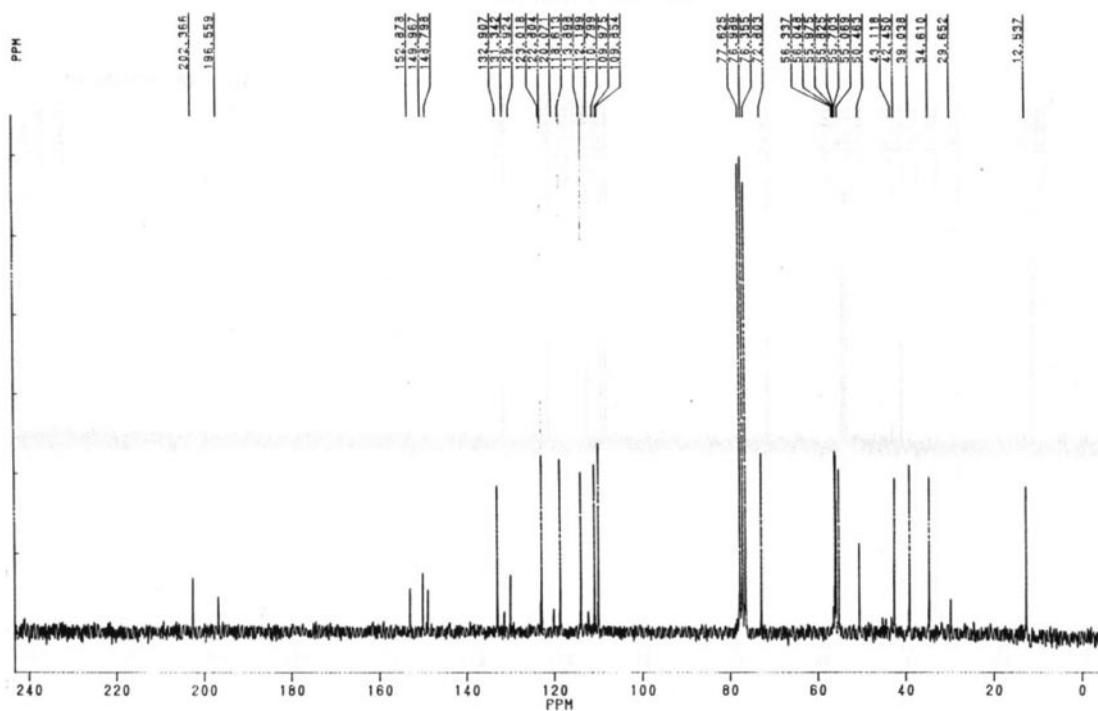


Figure S34. ^{13}C NMR spectrum of **3b** (50 MHz, CDCl_3).

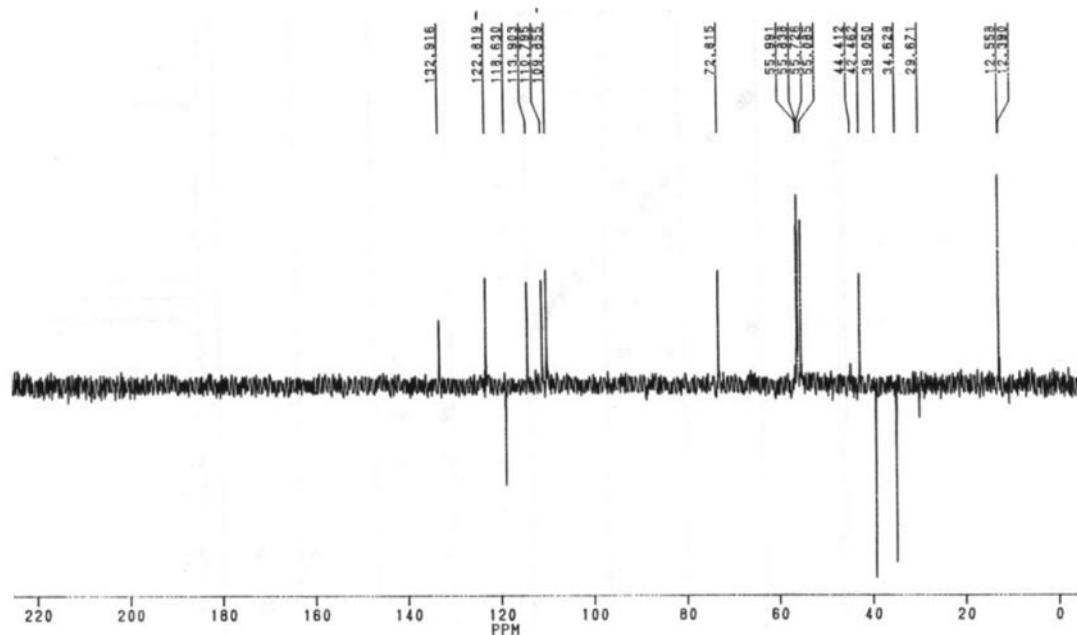


Figure S35. DEPT 135 ^{13}C NMR spectrum of **3b** (50 MHz, CDCl_3).

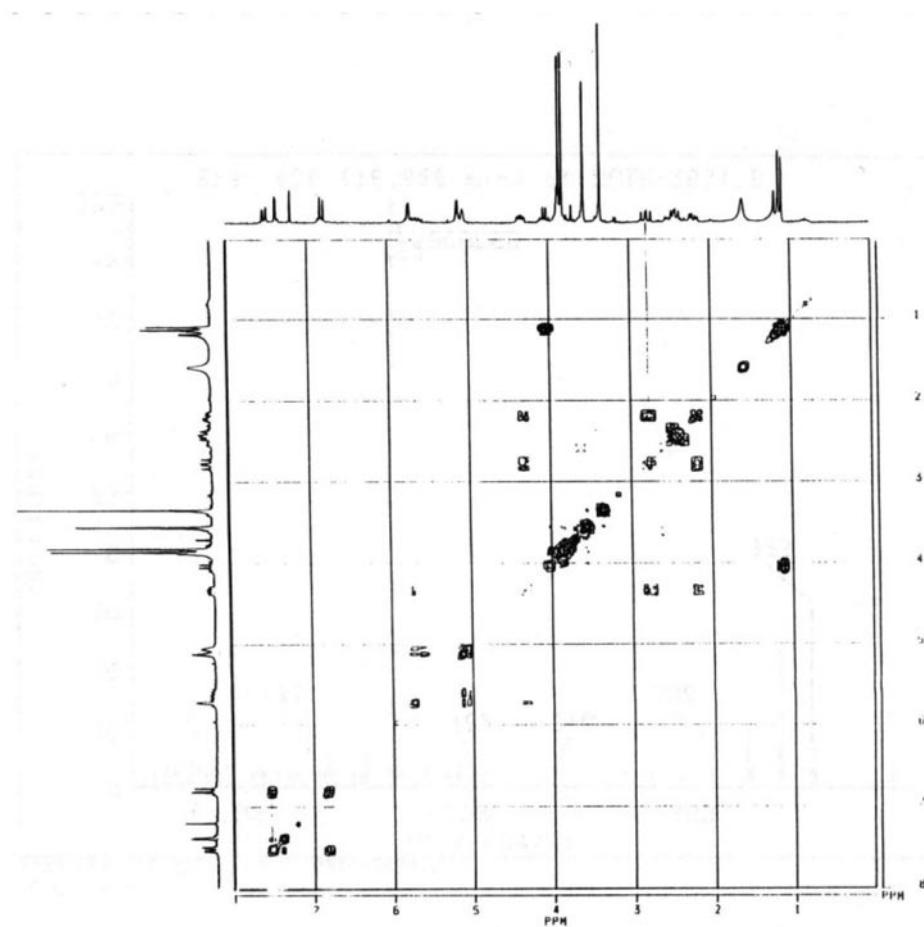


Figure S36. COSY ^{13}C NMR spectrum of **3b** (50 MHz, CDCl_3).

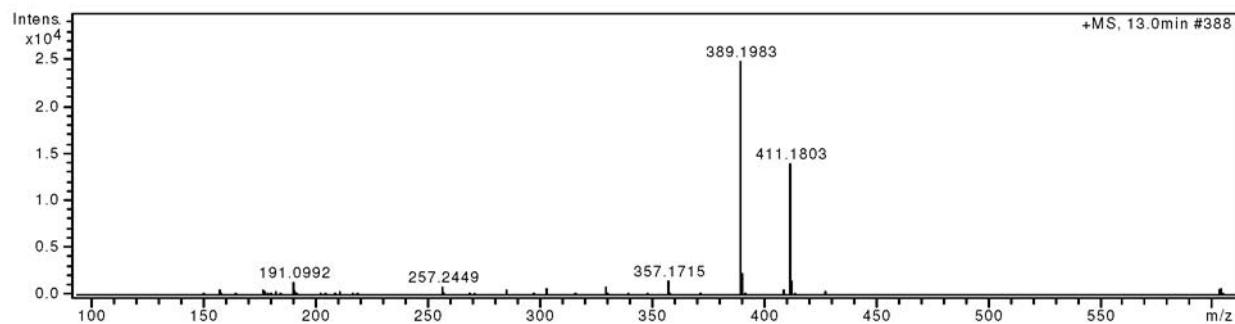


Figure S37. HRESIMS spectrum of **3b**.

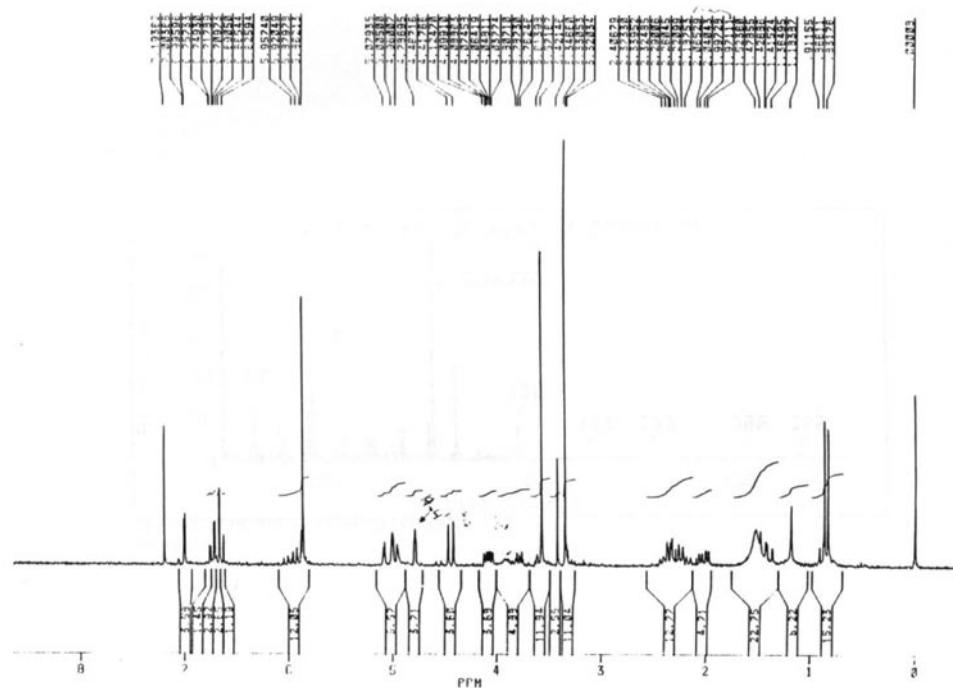


Figure S38. ¹H NMR spectrum of **4a** (200 MHz, CDCl_3).

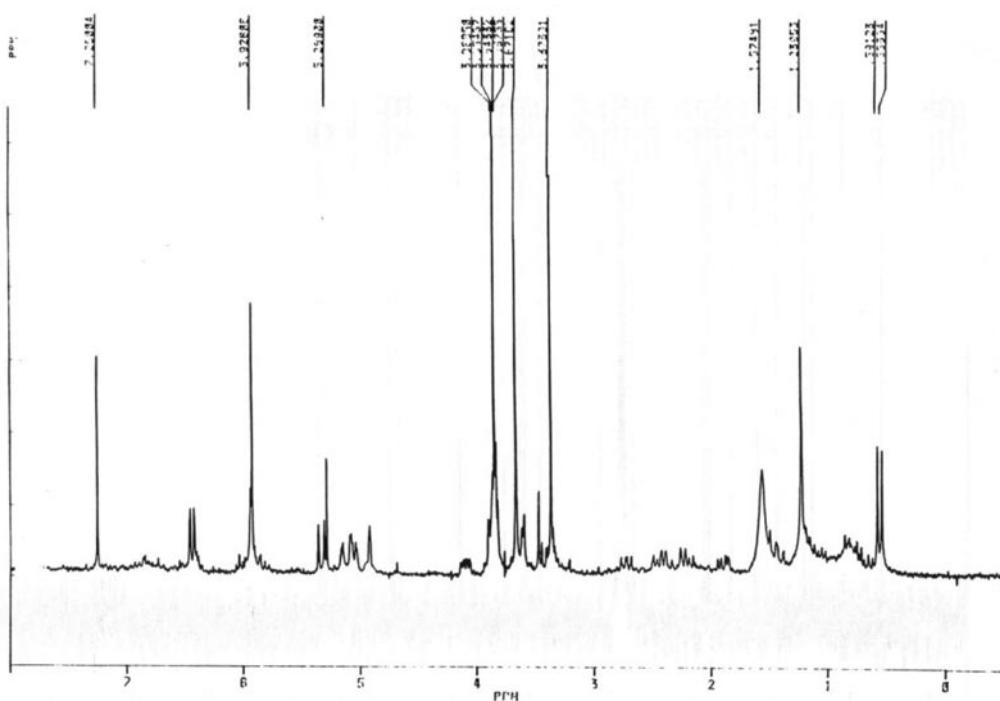


Figure S39. ¹H NMR spectrum of **4b** (200 MHz, CDCl_3).

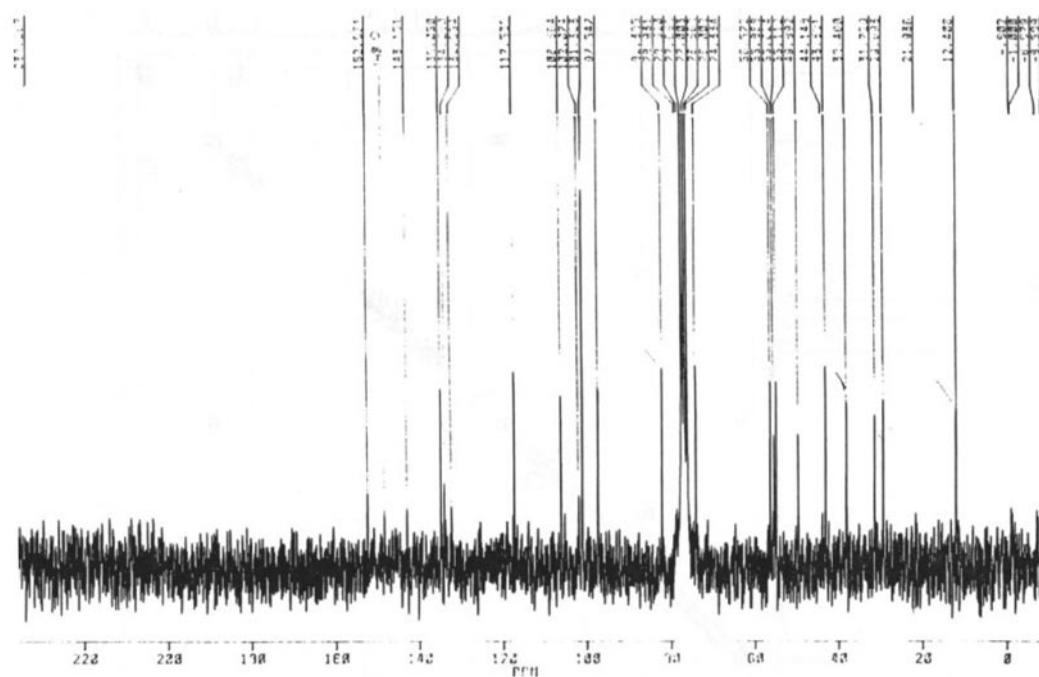


Figure S40. ¹³C NMR spectrum of **4b** (50 MHz, CDCl₃).

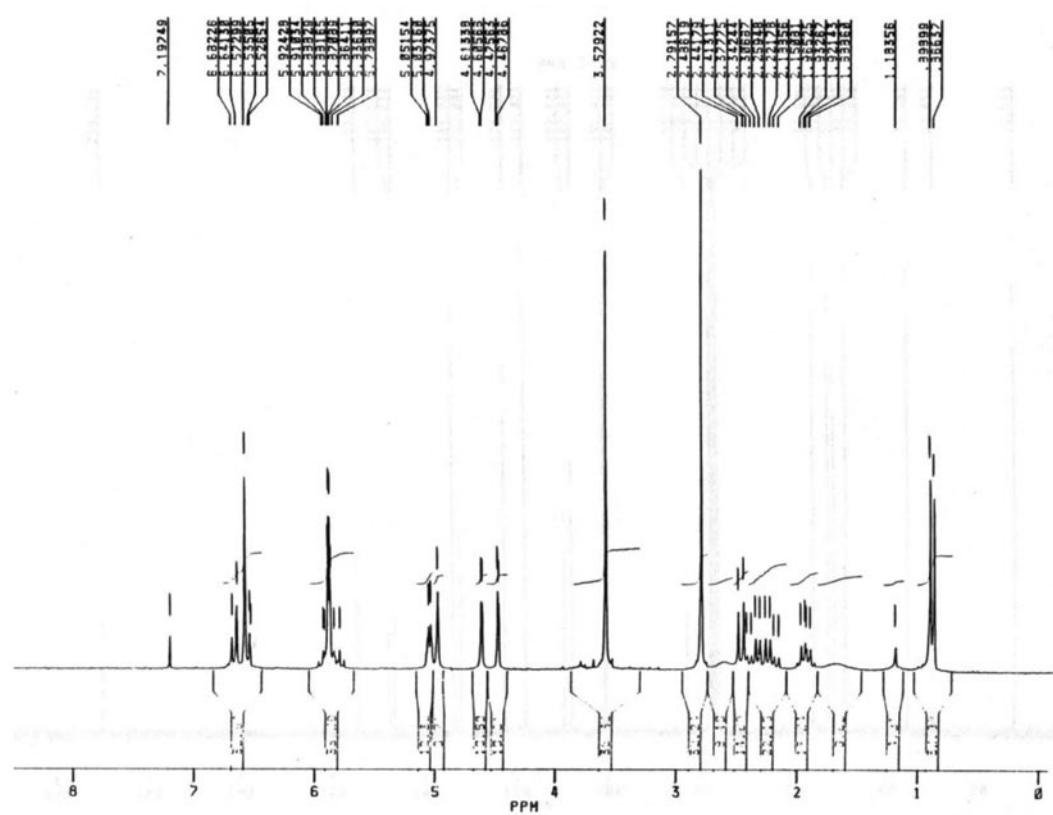


Figure S41. ¹H NMR spectrum of **5a** (200 MHz, CDCl₃).

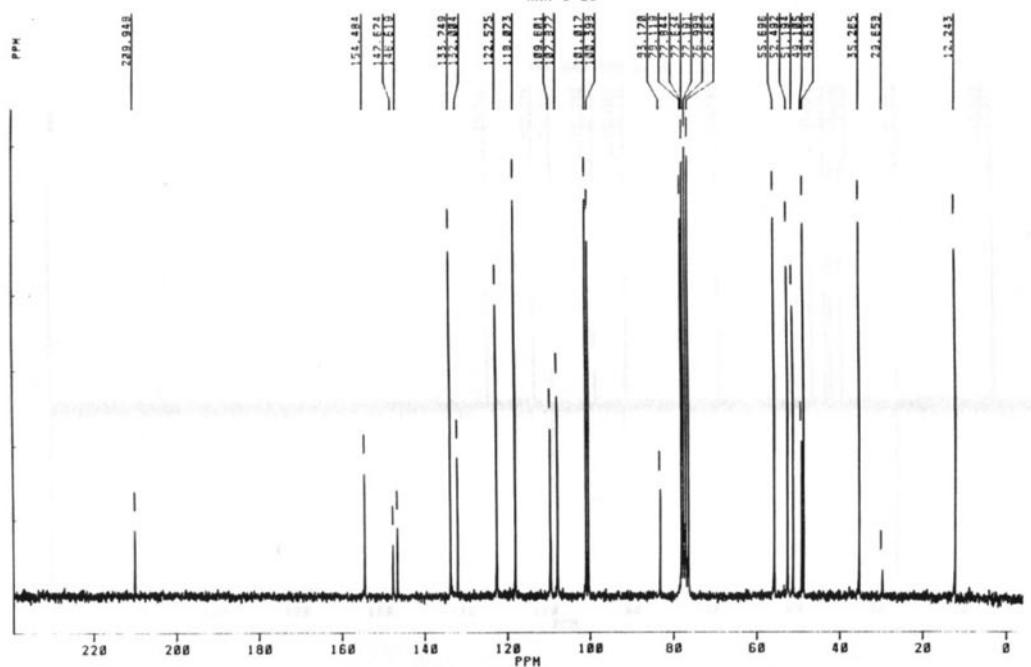


Figure S42. ^{13}C NMR spectrum of **5a** (50 MHz, CDCl_3).

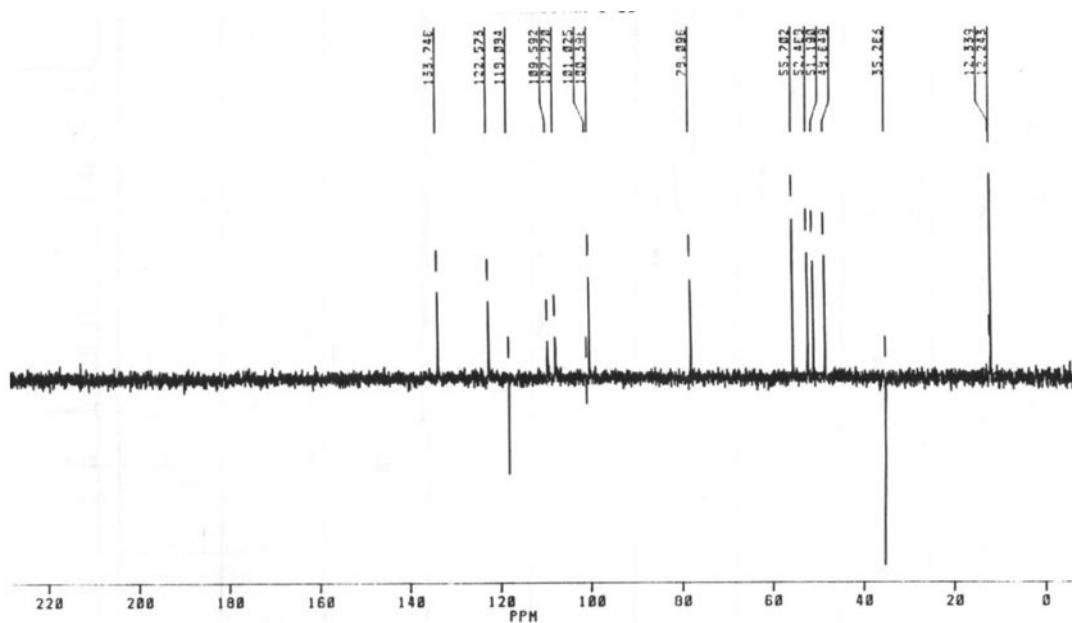


Figure S43. DEPT 135 ^{13}C NMR spectrum of **5a** (50 MHz, CDCl_3).

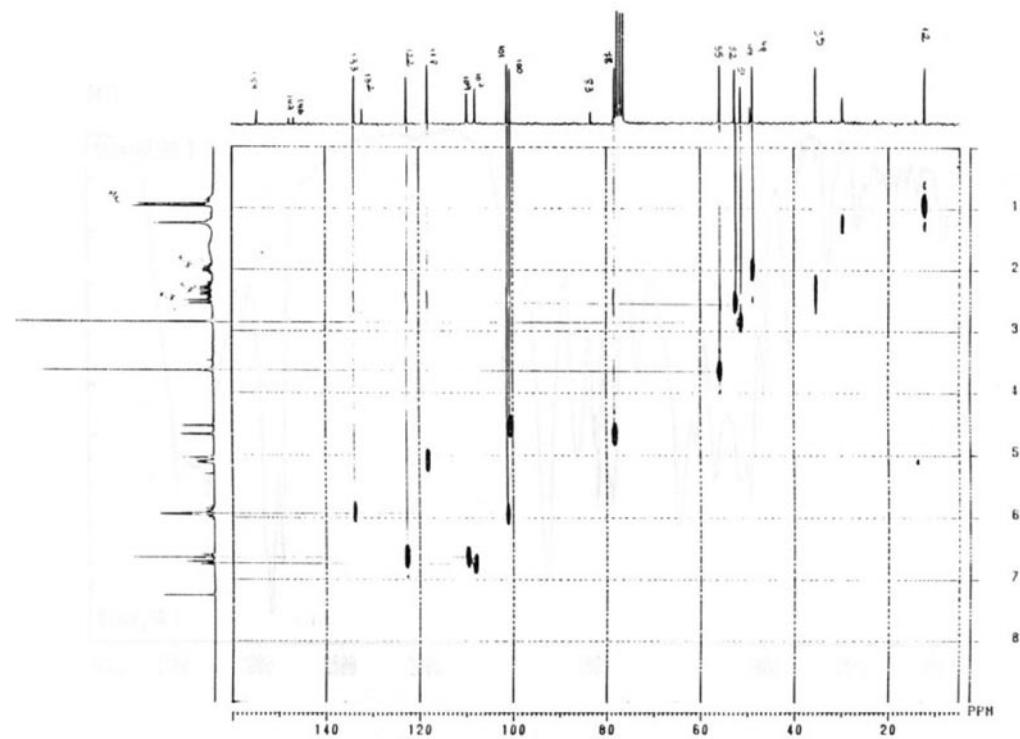


Figure S44. HETCOR ^{13}C NMR spectrum of **5a** (50 MHz, CDCl_3).

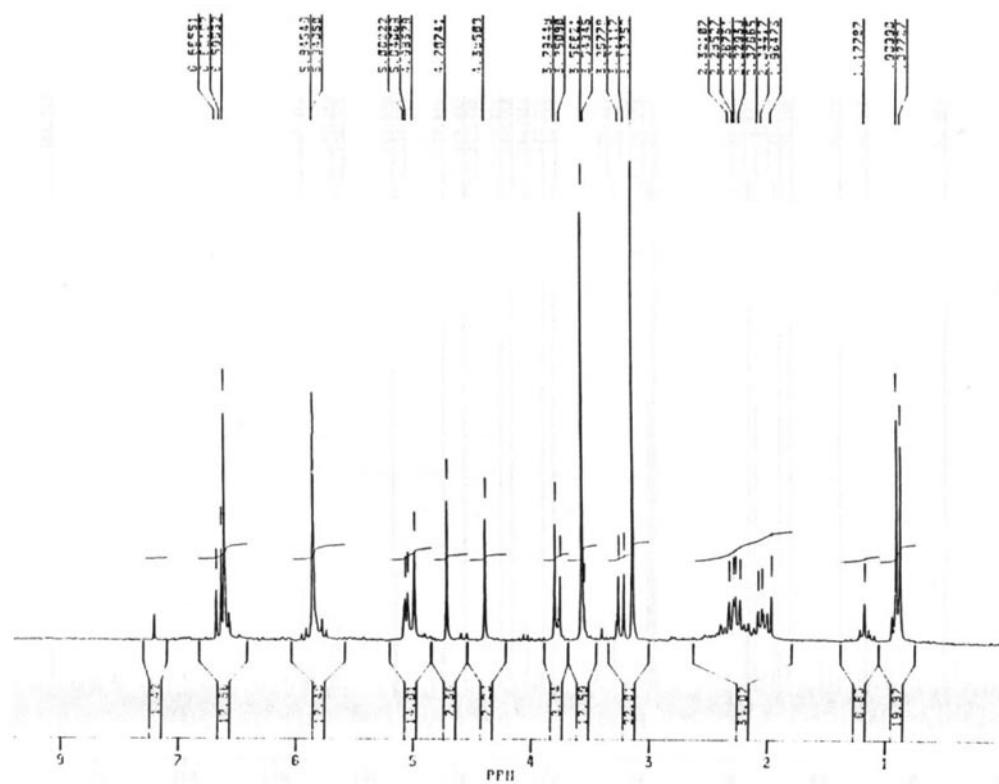


Figure S45. ^1H NMR spectrum of **5b** (200 MHz, CDCl_3).

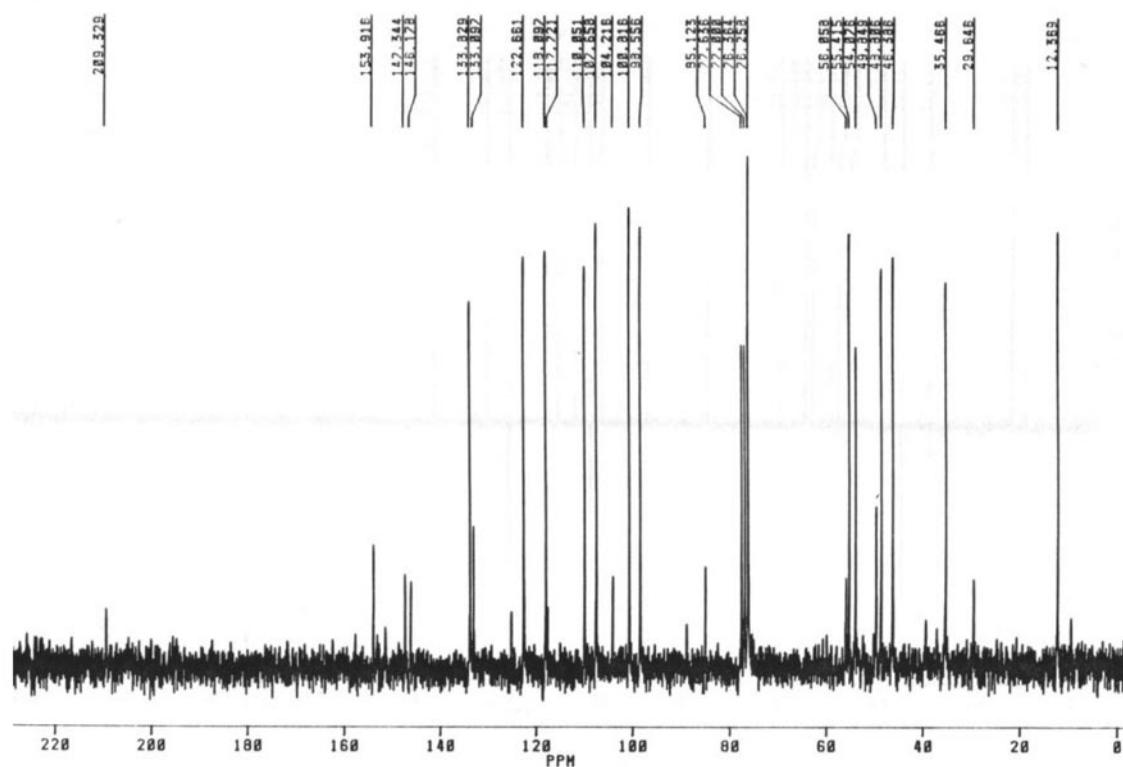


Figure S46. ^{13}C NMR spectrum of **5b** (50 MHz, CDCl_3).

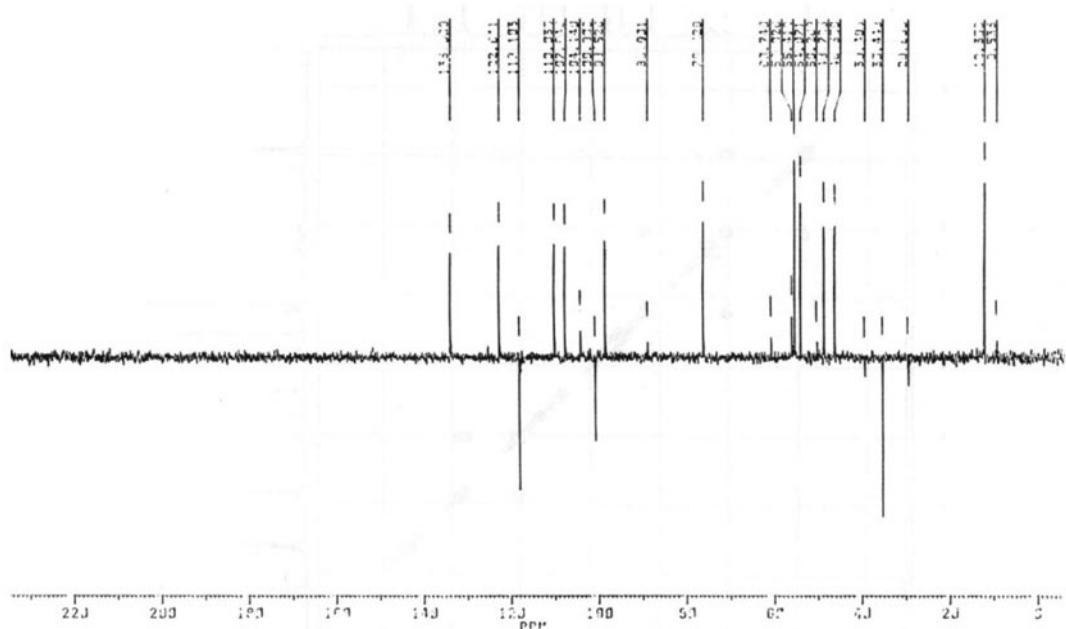


Figure S47. DEPT 135 ^{13}C NMR spectrum of **5b** (50 MHz, CDCl_3).

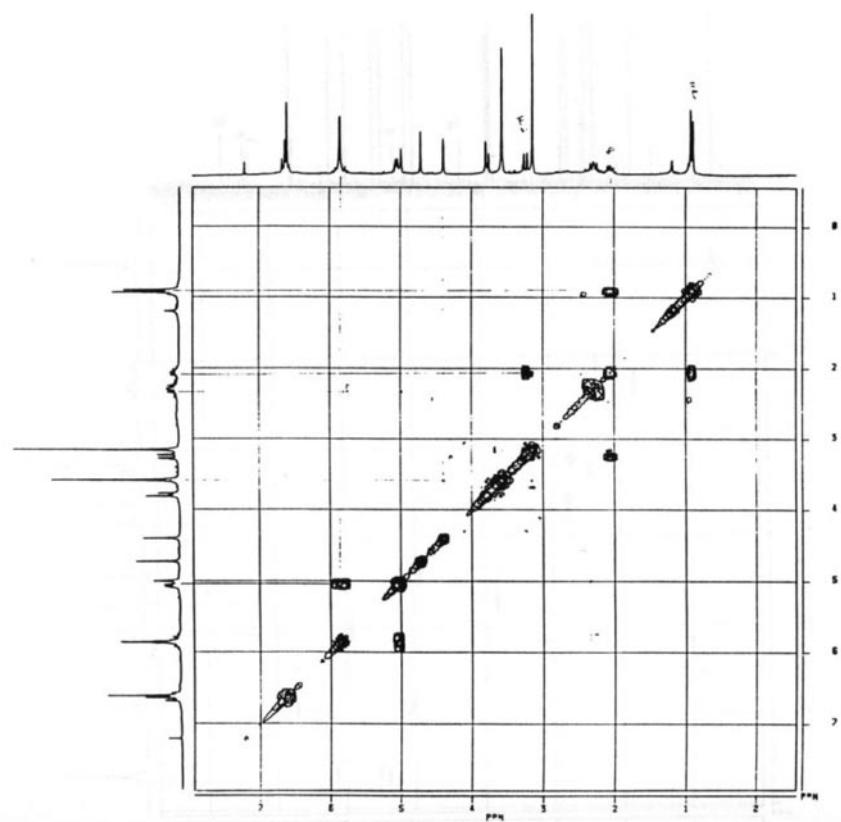


Figure S48. COSY ^{13}C NMR spectrum of **5b** (50 MHz, CDCl_3).

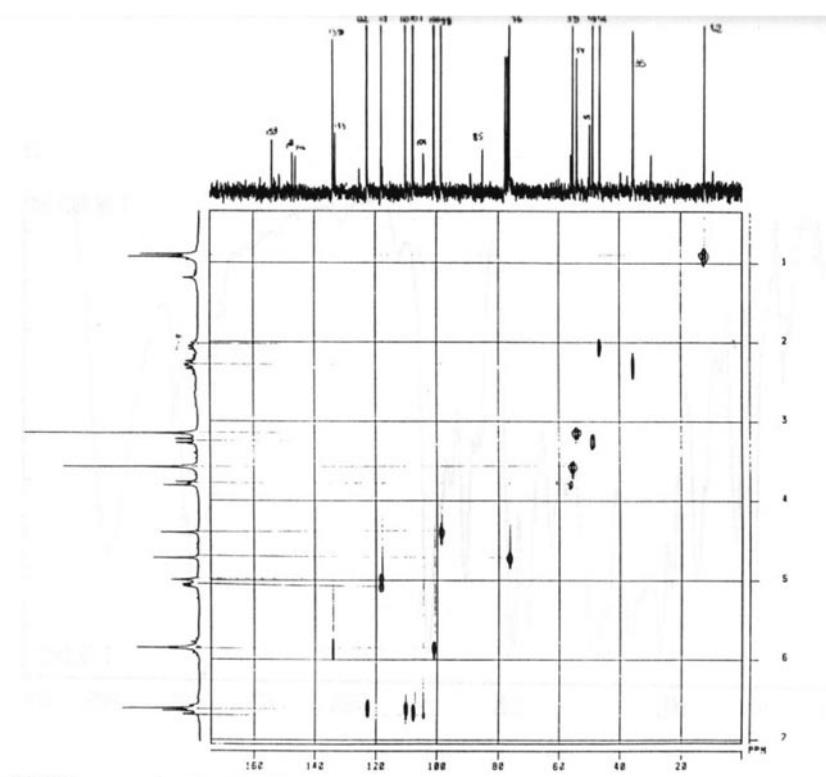


Figure S49. HETCOR ^{13}C NMR spectrum of **5b** (50 MHz, CDCl_3).

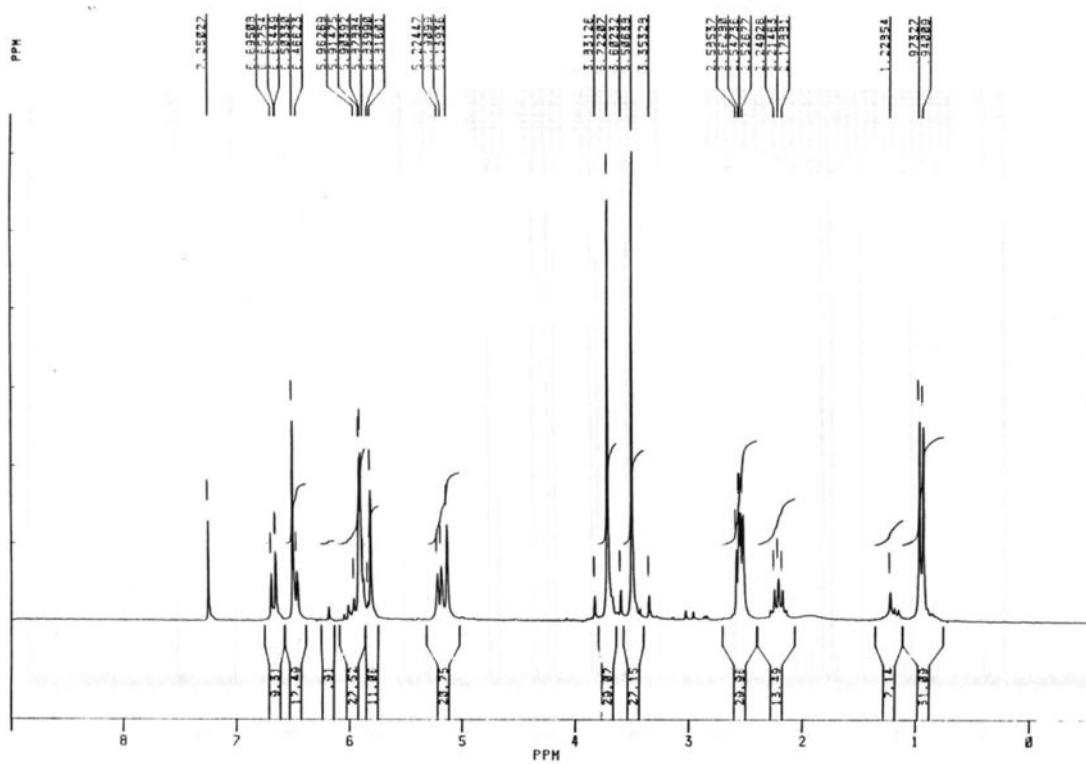


Figure S50. ^1H NMR spectrum of **5c** (200 MHz, CDCl_3).

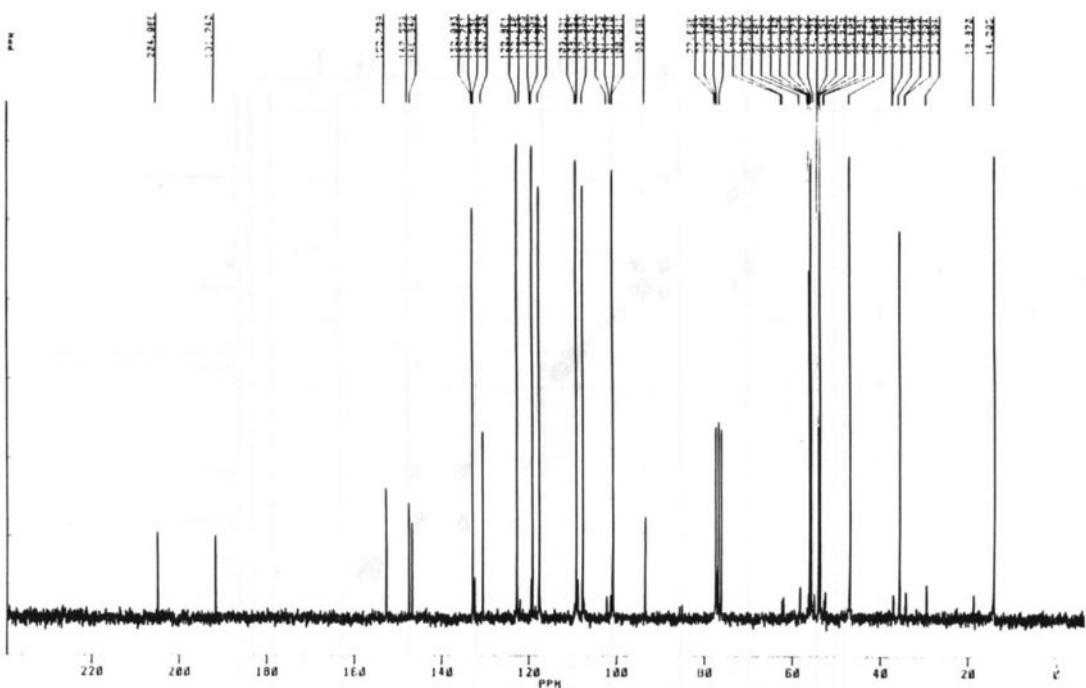


Figure S51. ^{13}C NMR spectrum of **5c** (50 MHz, CDCl_3).

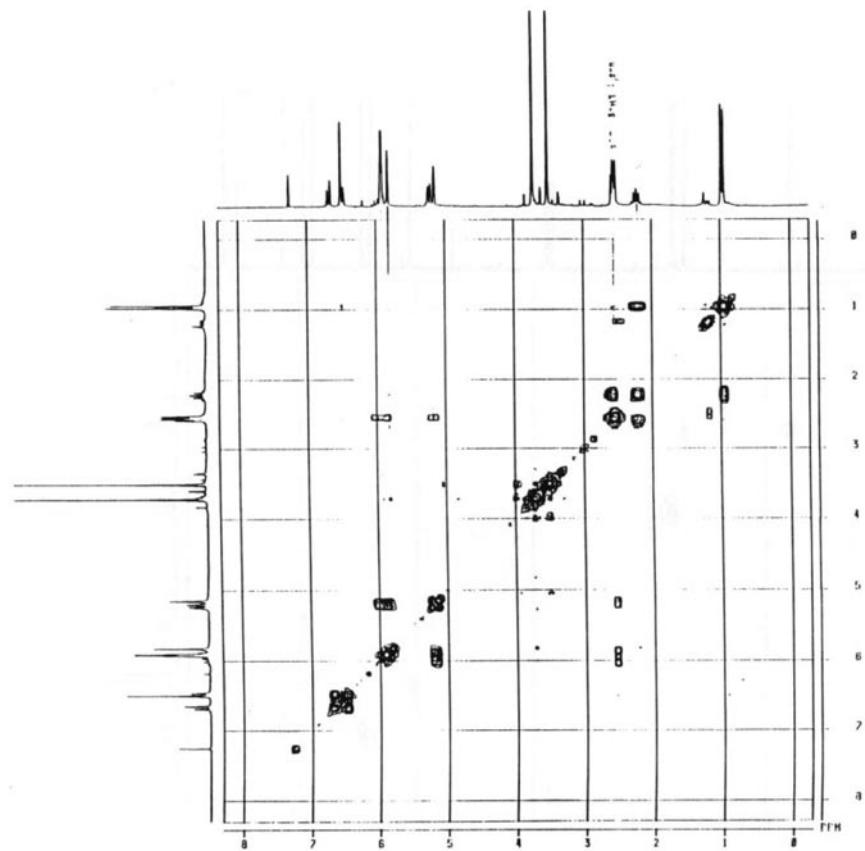


Figure S52. COSY ^{13}C NMR spectrum of **5c** (50 MHz, CDCl_3).

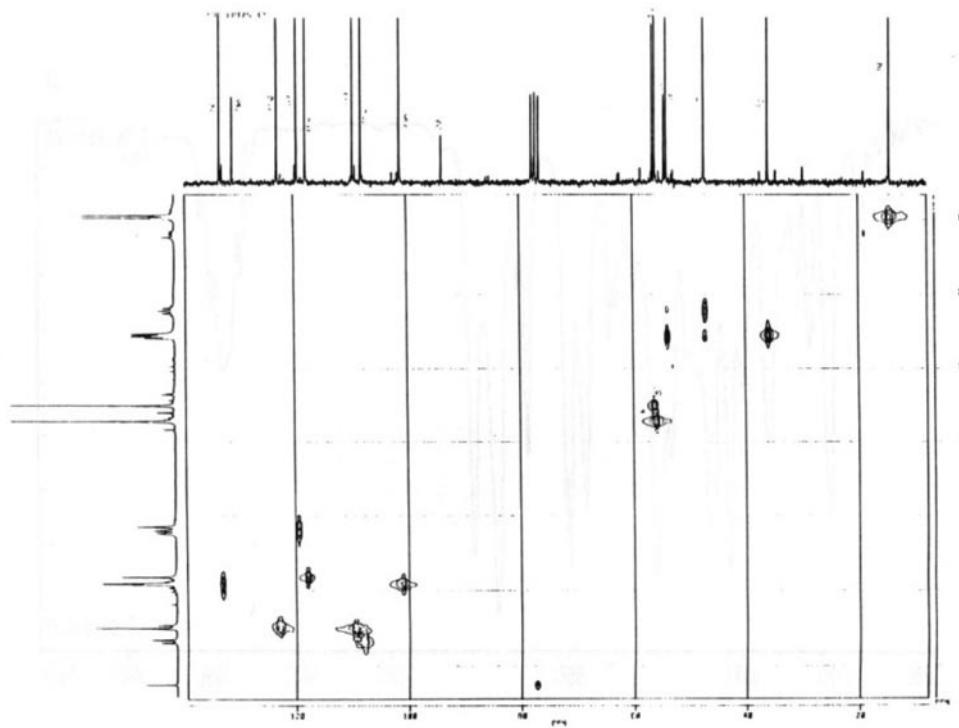


Figure S53. HETCOR ^{13}C NMR spectrum of **5c** (50 MHz, CDCl_3).

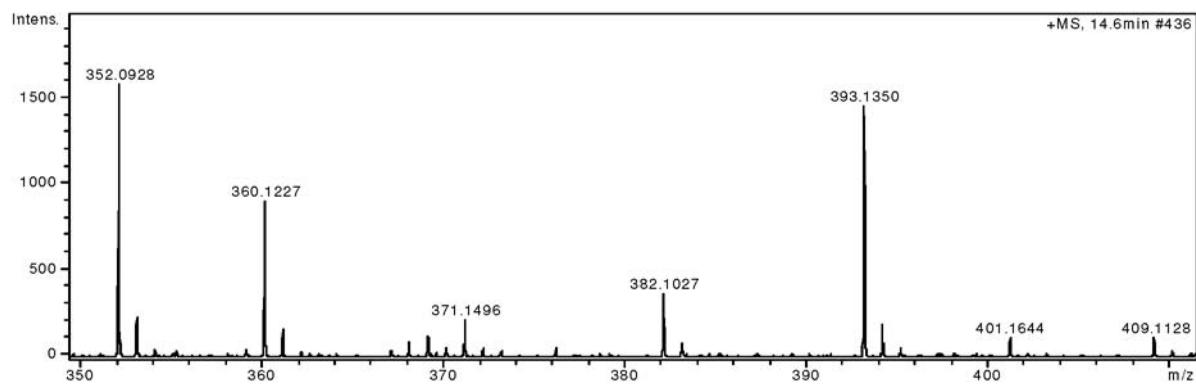


Figure S54. HRESIMS spectrum of **5c**.

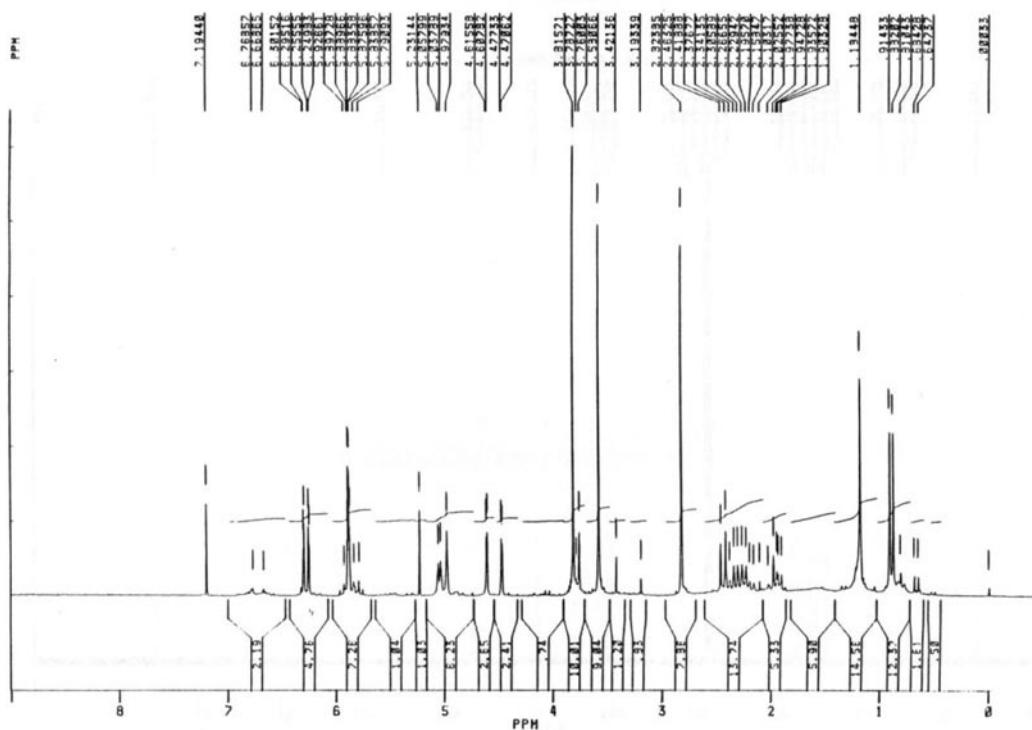


Figure S55. ^1H NMR spectrum of **5d** (200 MHz, CDCl_3).

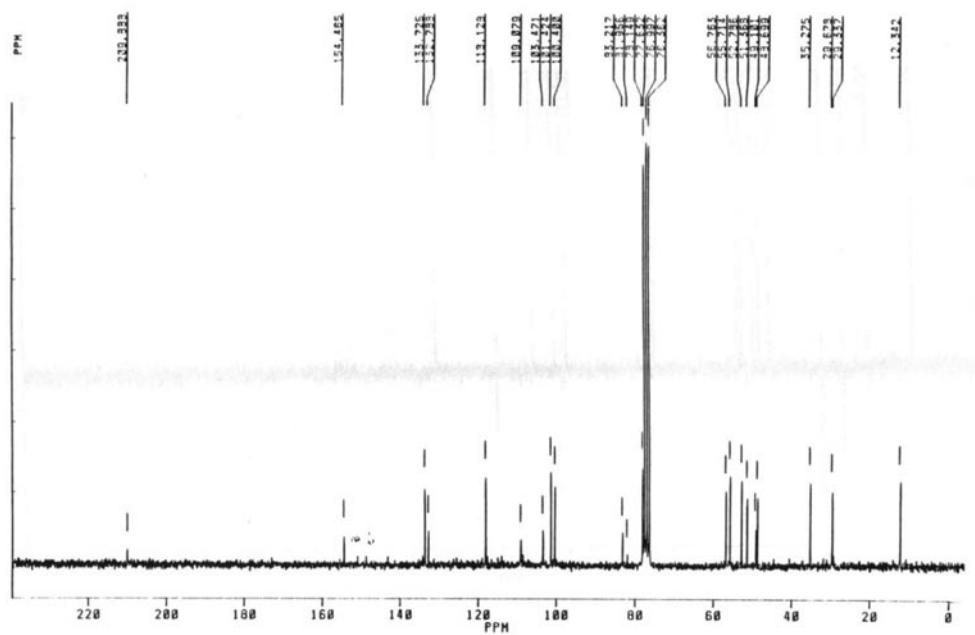


Figure S56. ¹³C NMR spectrum of **5d** (50 MHz, CDCl₃).

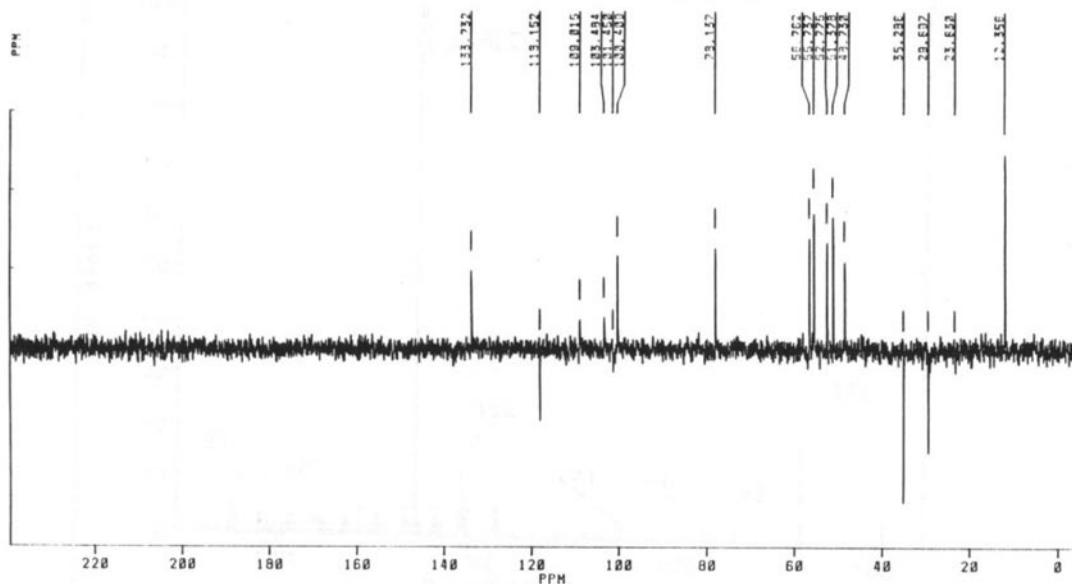


Figure S57. DEPT 135 ¹³C NMR spectrum of **5d** (50 MHz, CDCl₃).

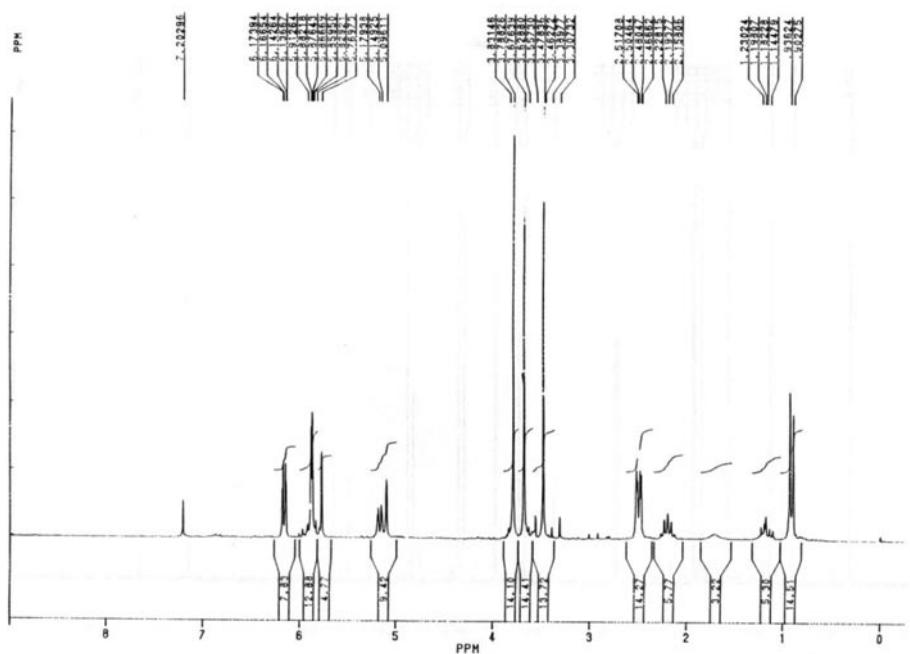


Figure S58. ^1H NMR spectrum of **5e** (200 MHz, CDCl_3).

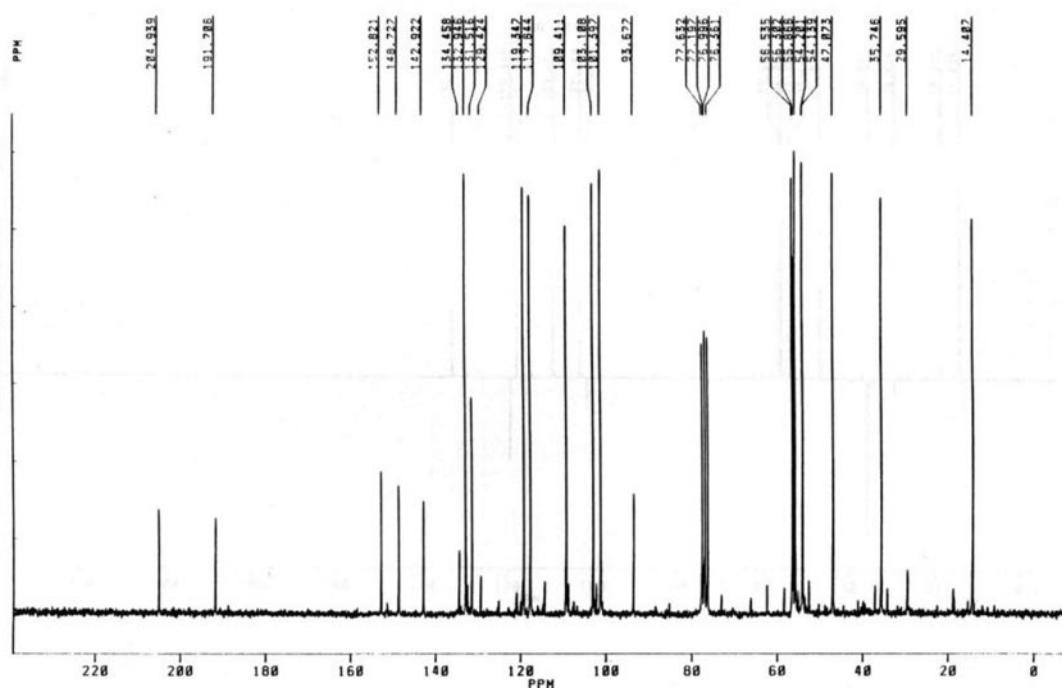


Figure S59. ^{13}C NMR spectrum of **5e** (50 MHz, CDCl_3).

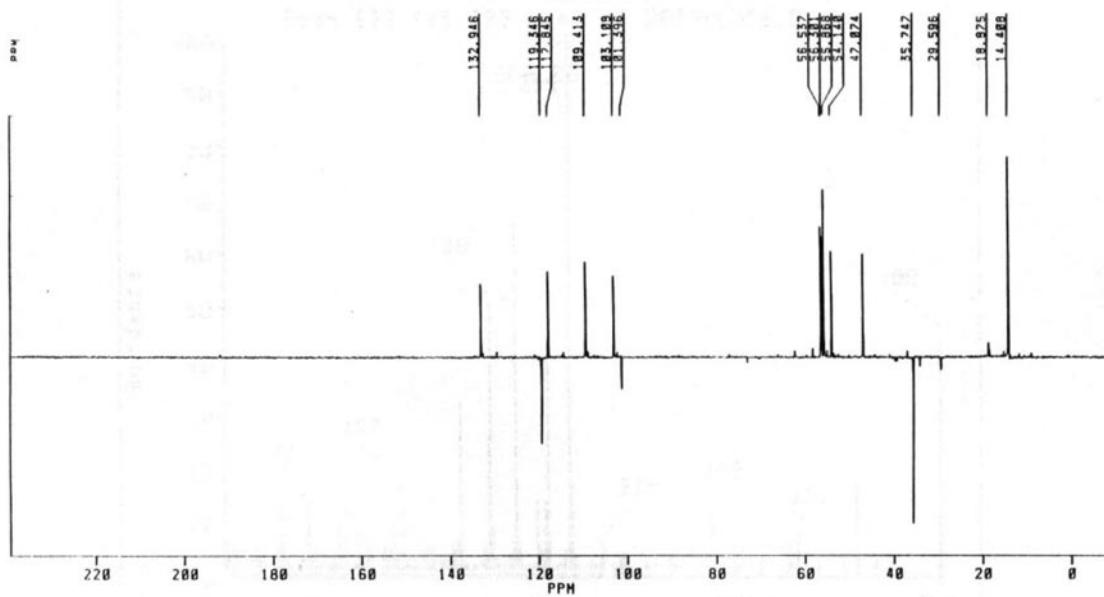


Figure S60. DEPT 135 ¹³C NMR spectrum of **5e** (50 MHz, CDCl₃).

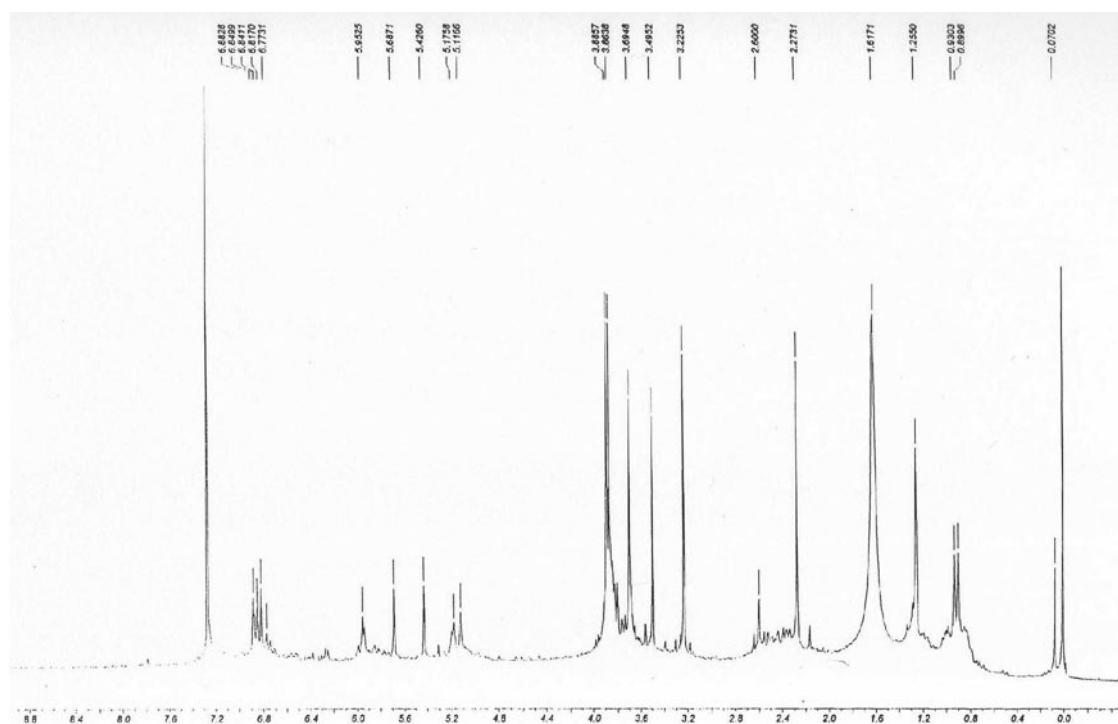


Figure S61. ¹H NMR spectrum of **6** (200 MHz, CDCl₃).

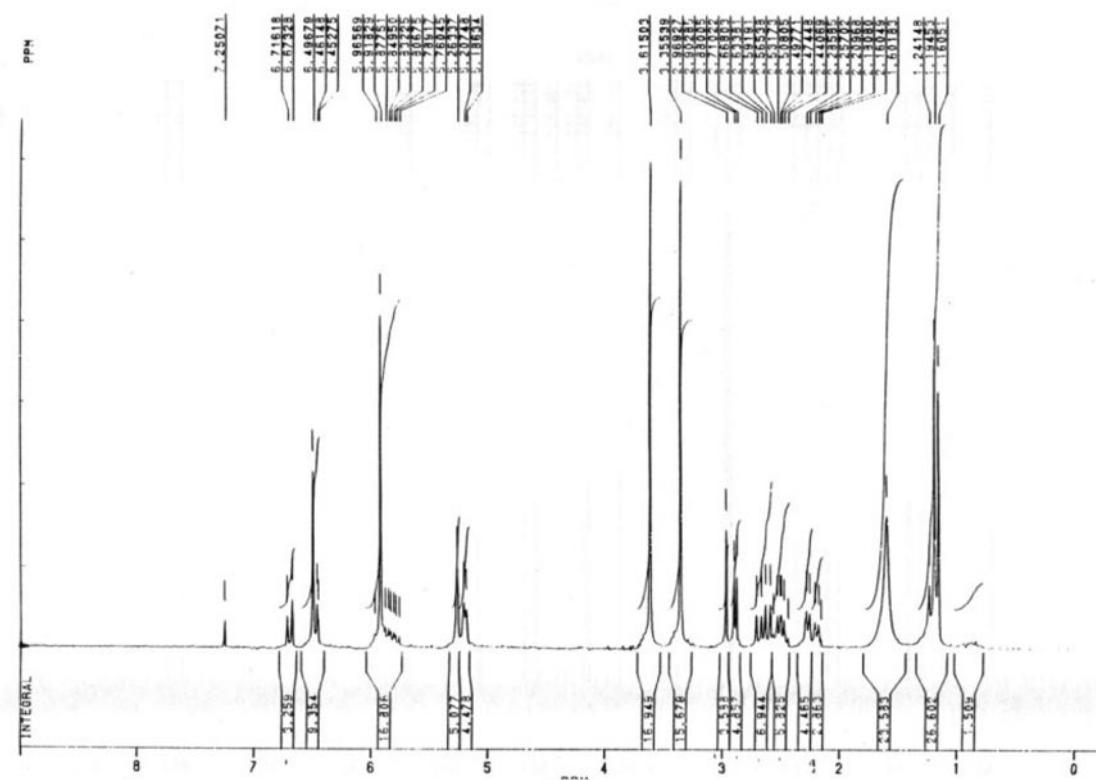


Figure S62. ^1H NMR spectrum of **7a** (200 MHz, CDCl_3).

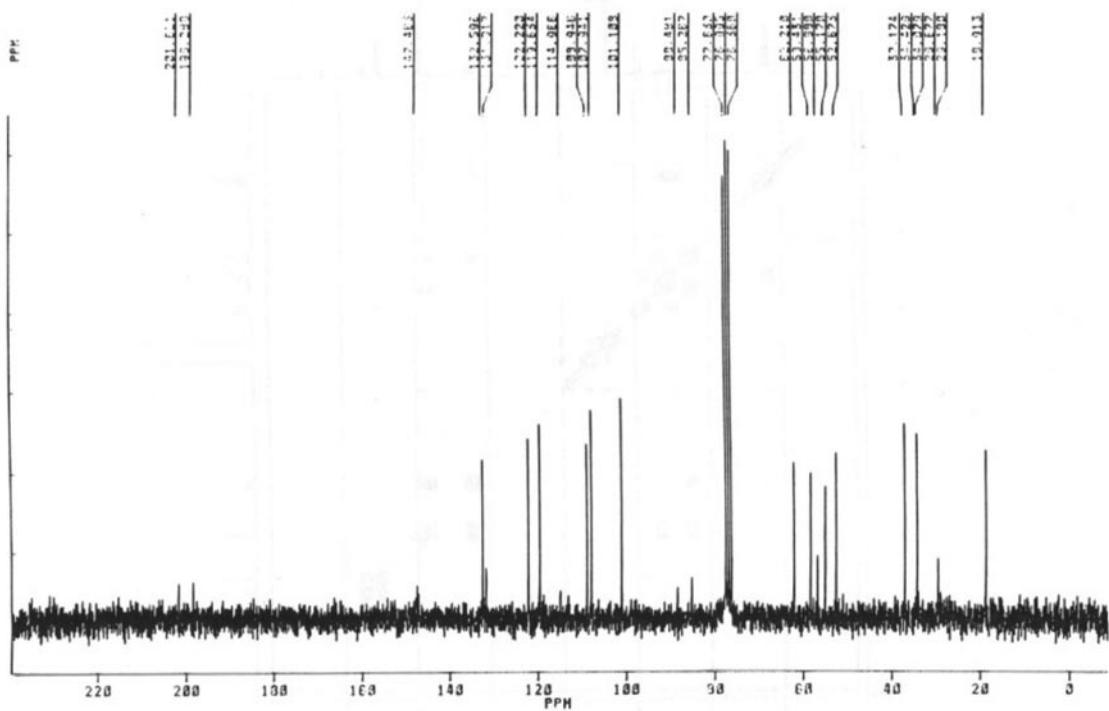


Figure S63. ^{13}C NMR spectrum of **7a** (50 MHz, CDCl_3).

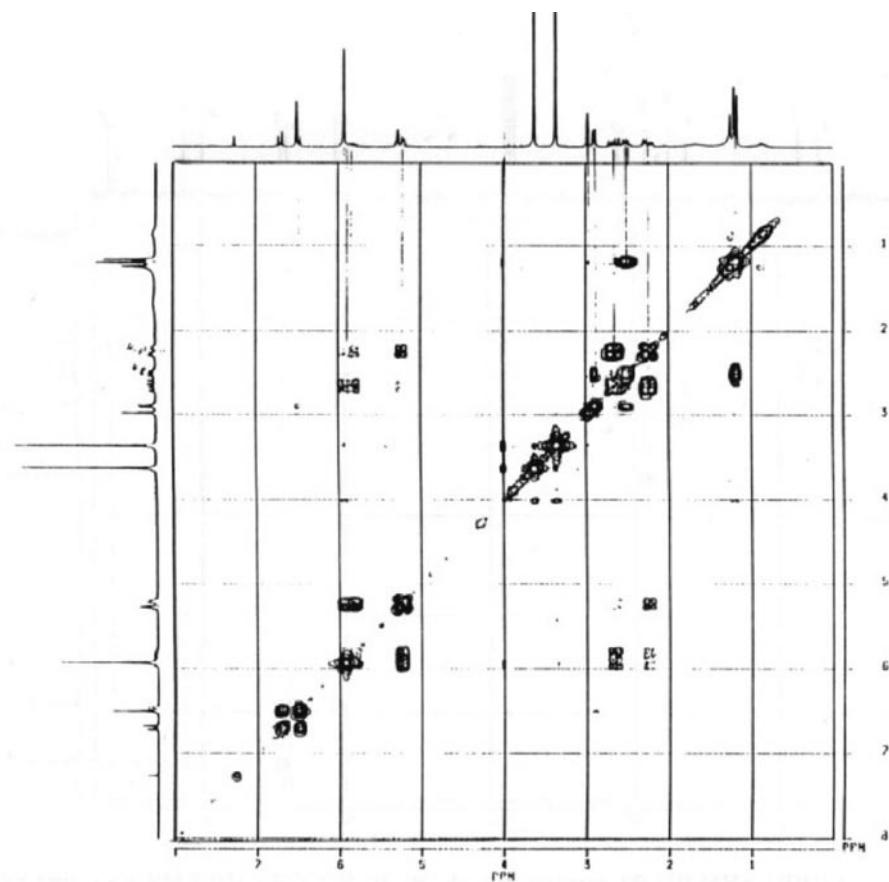


Figure S64. COSY ^{13}C NMR spectrum of **7a** (50 MHz, CDCl_3).

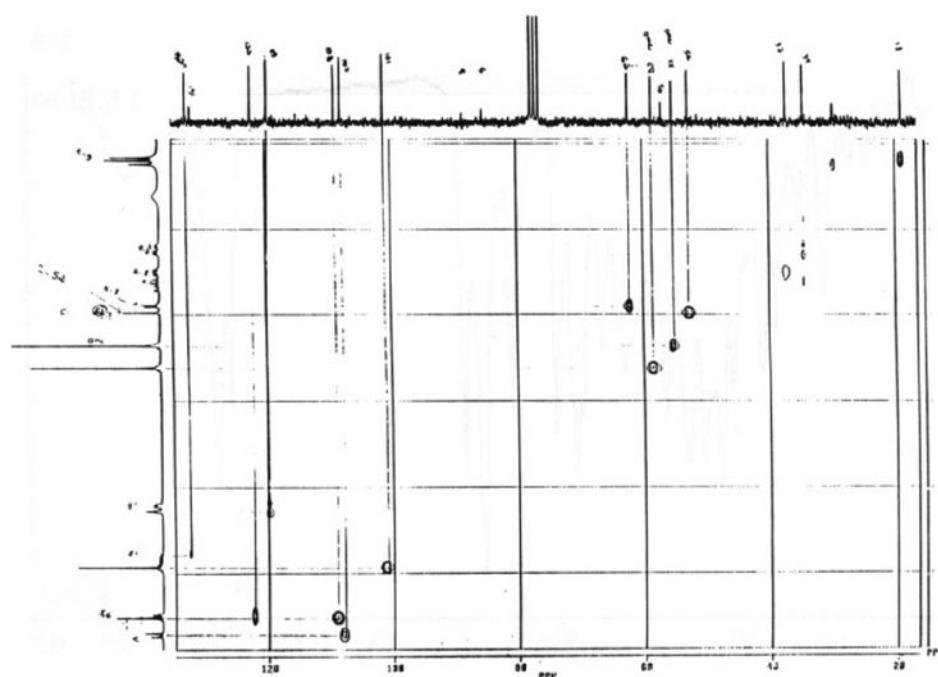


Figure S65. HETCOR ^{13}C NMR spectrum of **7a** (50 MHz, CDCl_3).

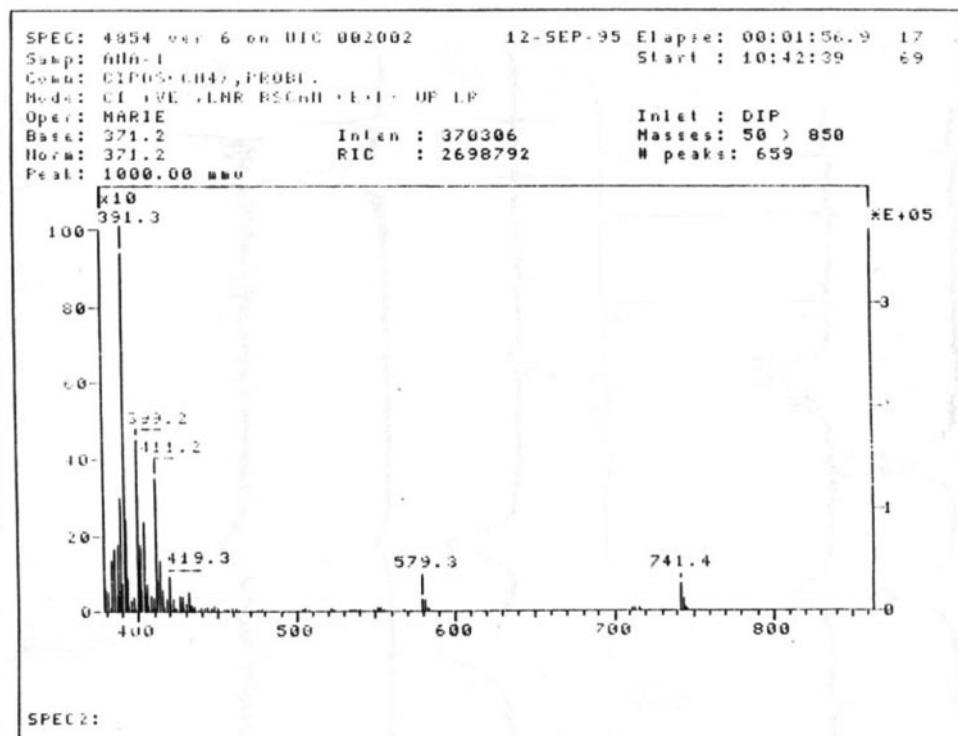


Figure S66. EIMS spectrum of **7a** (70 eV).

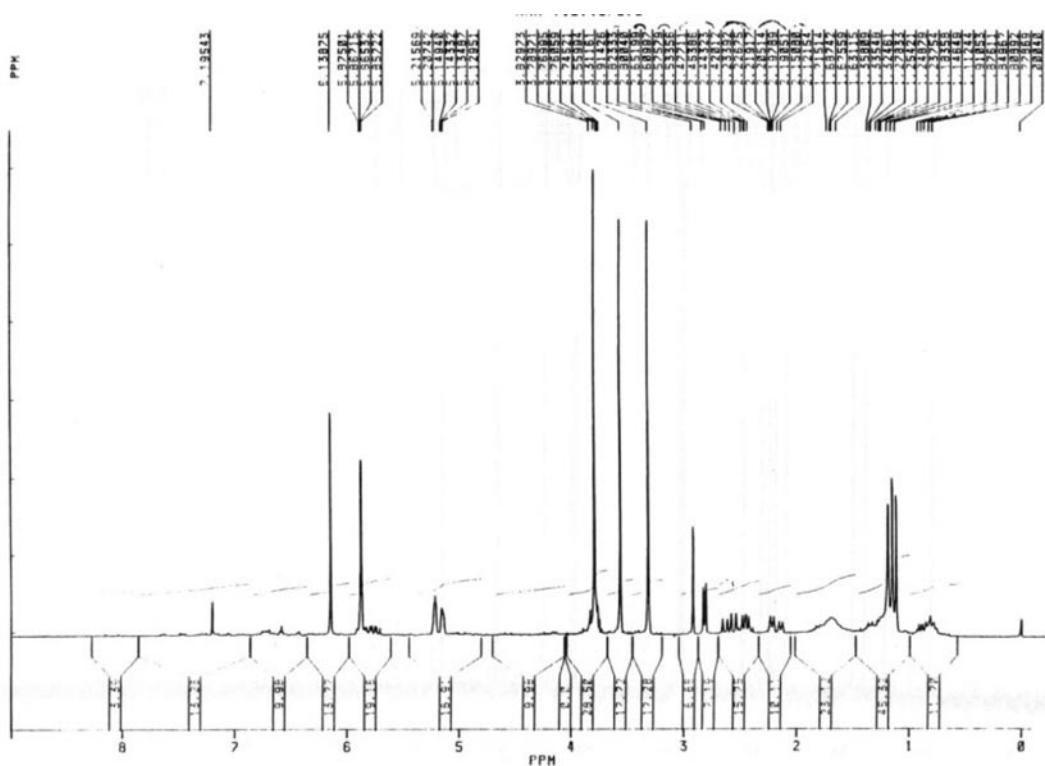


Figure S67. ^1H NMR spectrum of **7a** (200 MHz, CDCl_3).

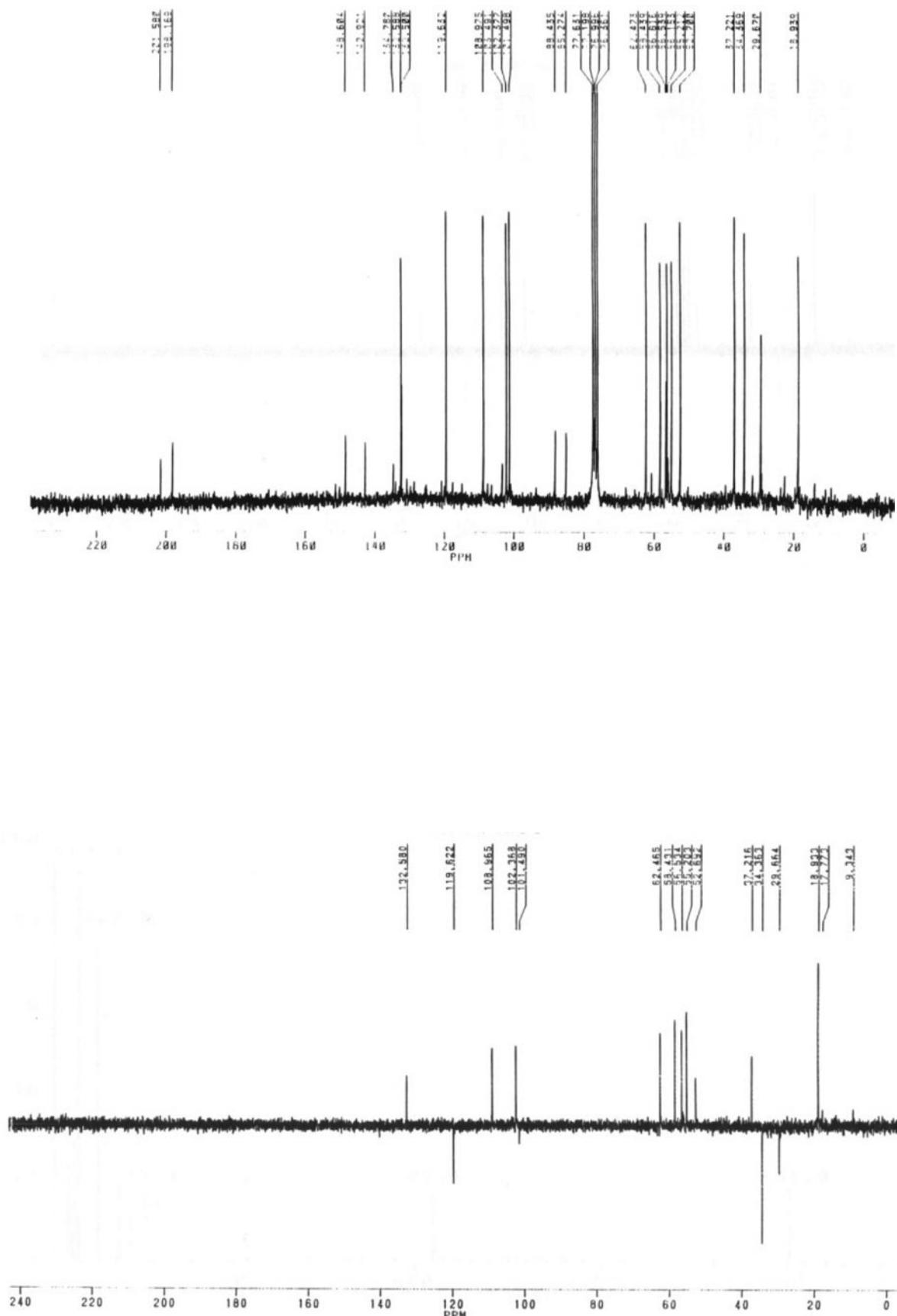


Figure S69. DEPT 135 ^{13}C NMR spectrum of **5e** (50 MHz, CDCl_3).

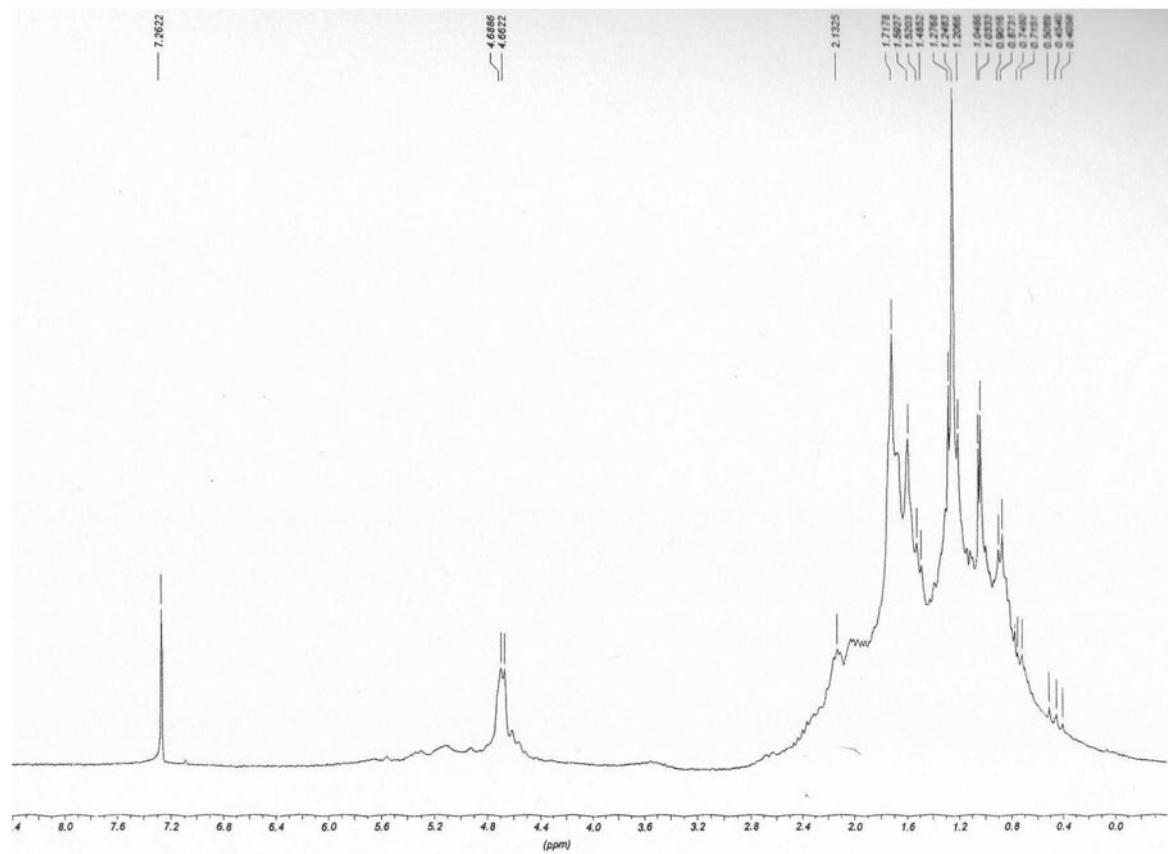


Figure S70. ^1H NMR spectrum of **8** (200 MHz, CDCl_3).

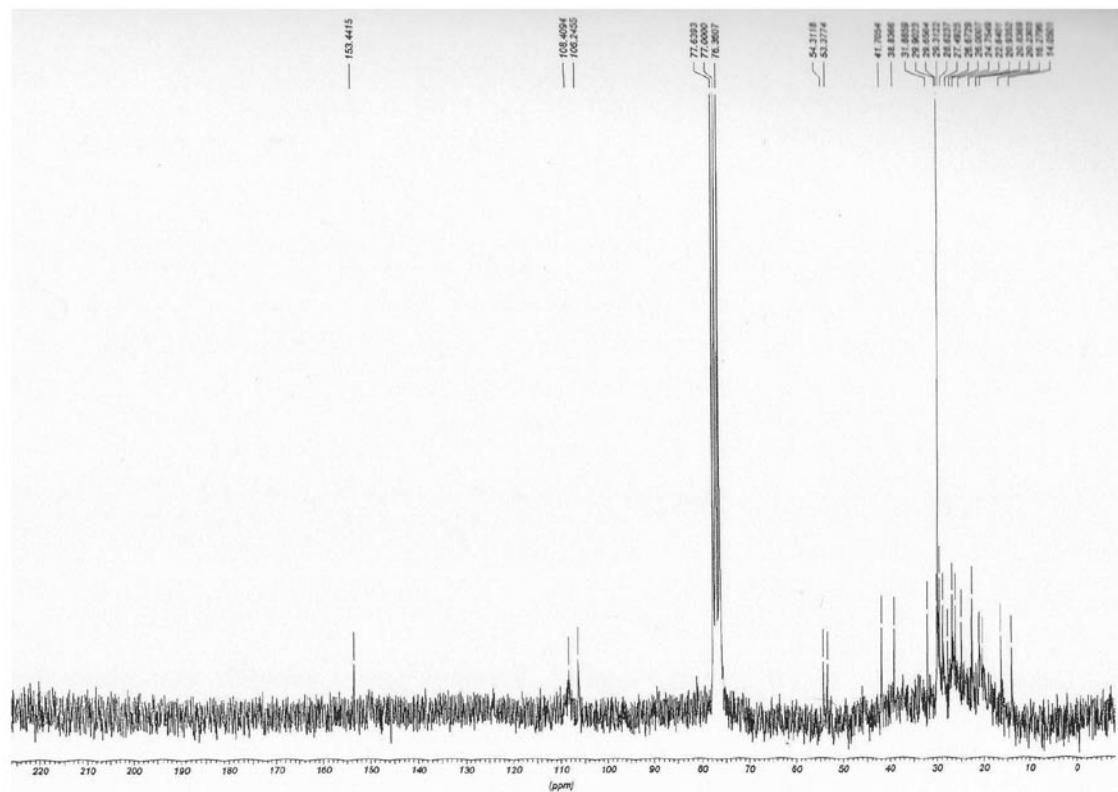


Figure S71. ^{13}C NMR spectrum of **8** (50 MHz, CDCl_3).

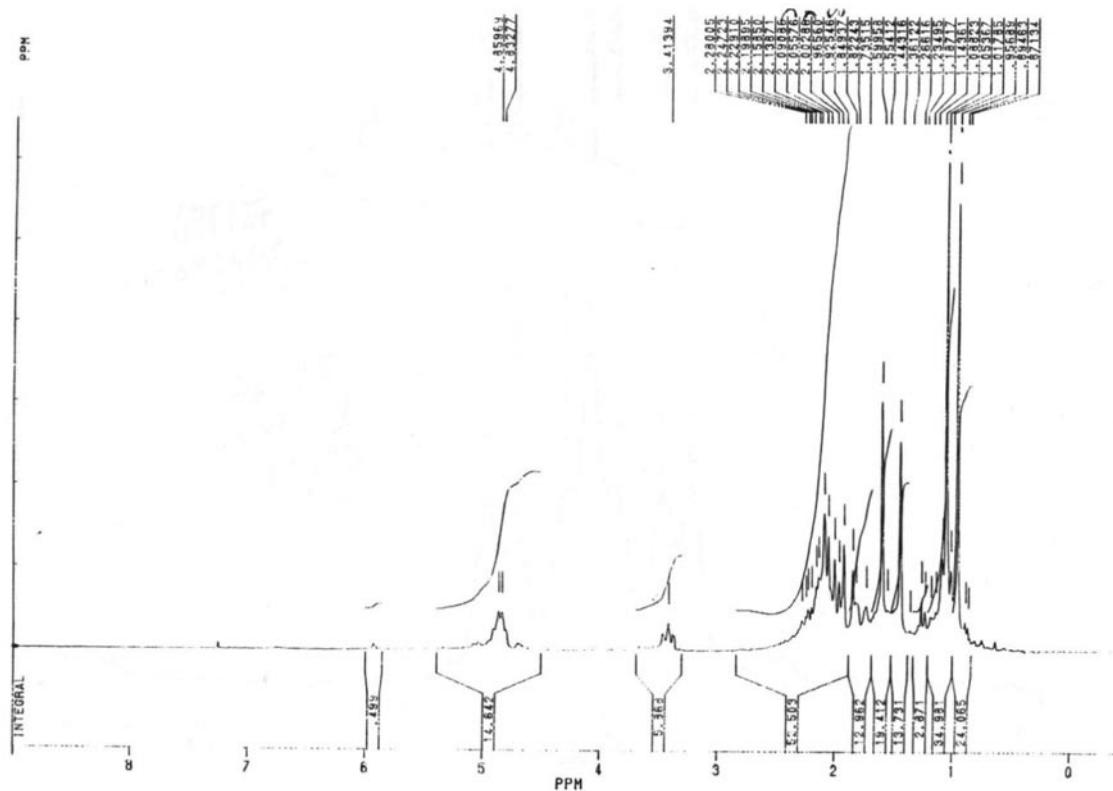


Figure S72. ¹H NMR spectrum of **9** (200 MHz, CDCl₃).

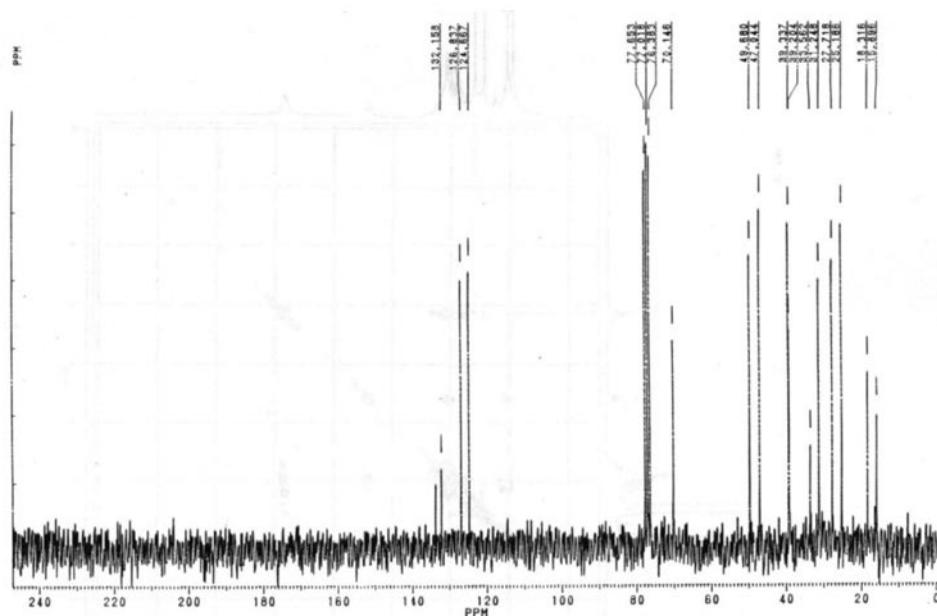


Figure S73. ¹³C NMR spectrum of **9** (50 MHz, CDCl₃).

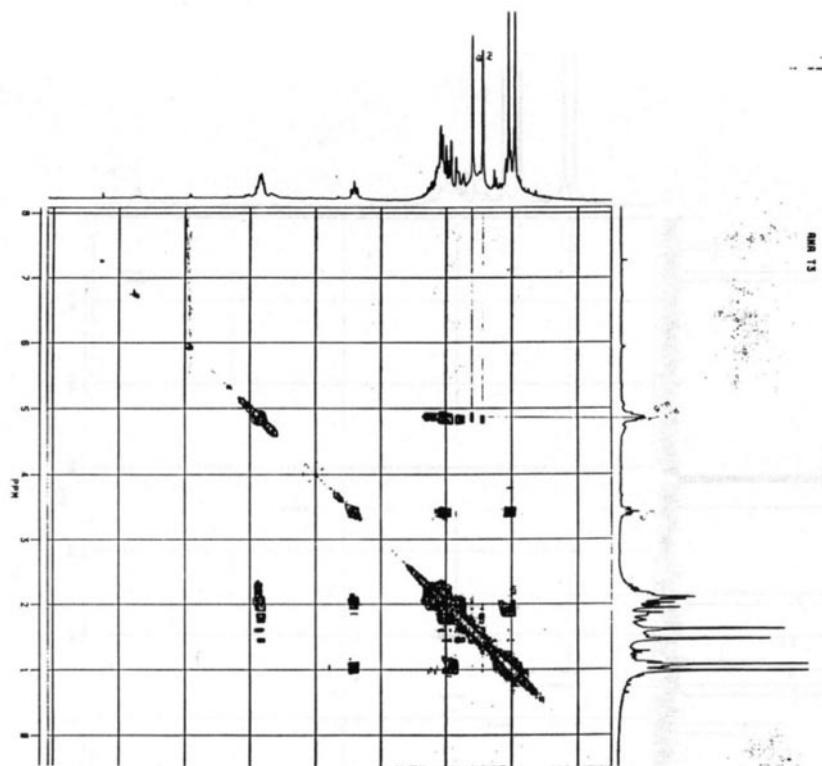


Figure S74. COSY ^{13}C NMR spectrum of **9** (50 MHz, CDCl_3).

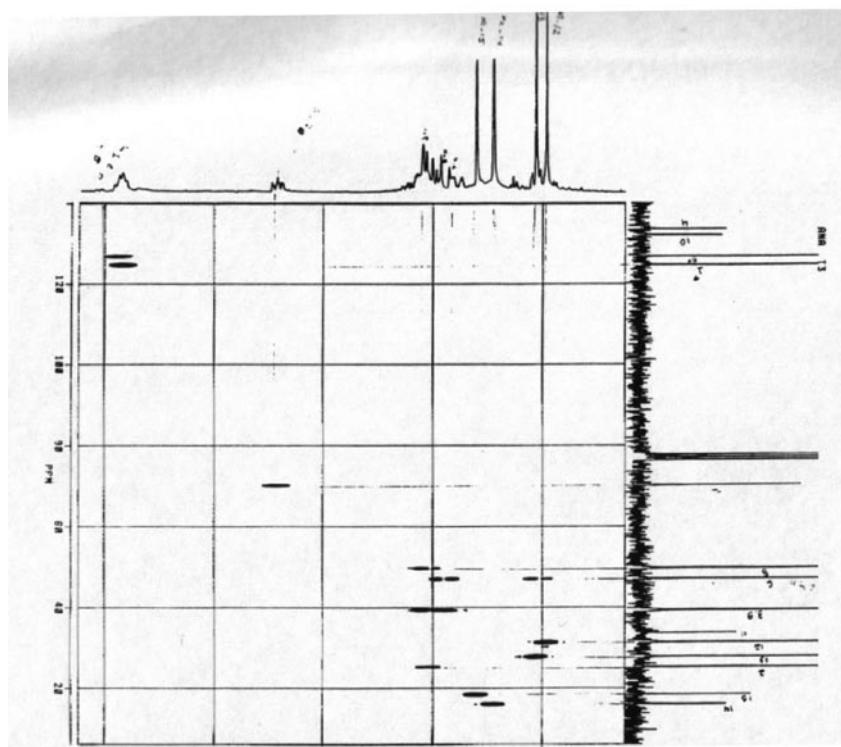


Figure S75. HETCOR ^{13}C NMR spectrum of **9** (50 MHz, CDCl_3).