

Supporting Information

Spiro[3.5]nonenyl Meroterpenoid Lactones, Cryptolaevilactones G–L, an Ionone Derivative and Total Synthesis of Cryptolaevilactone M from *Cryptocarya laevigata*

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#equal contribution

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Figure S1. ^1H NMR spectrum of **1** (600 MHz, in CDCl_3)

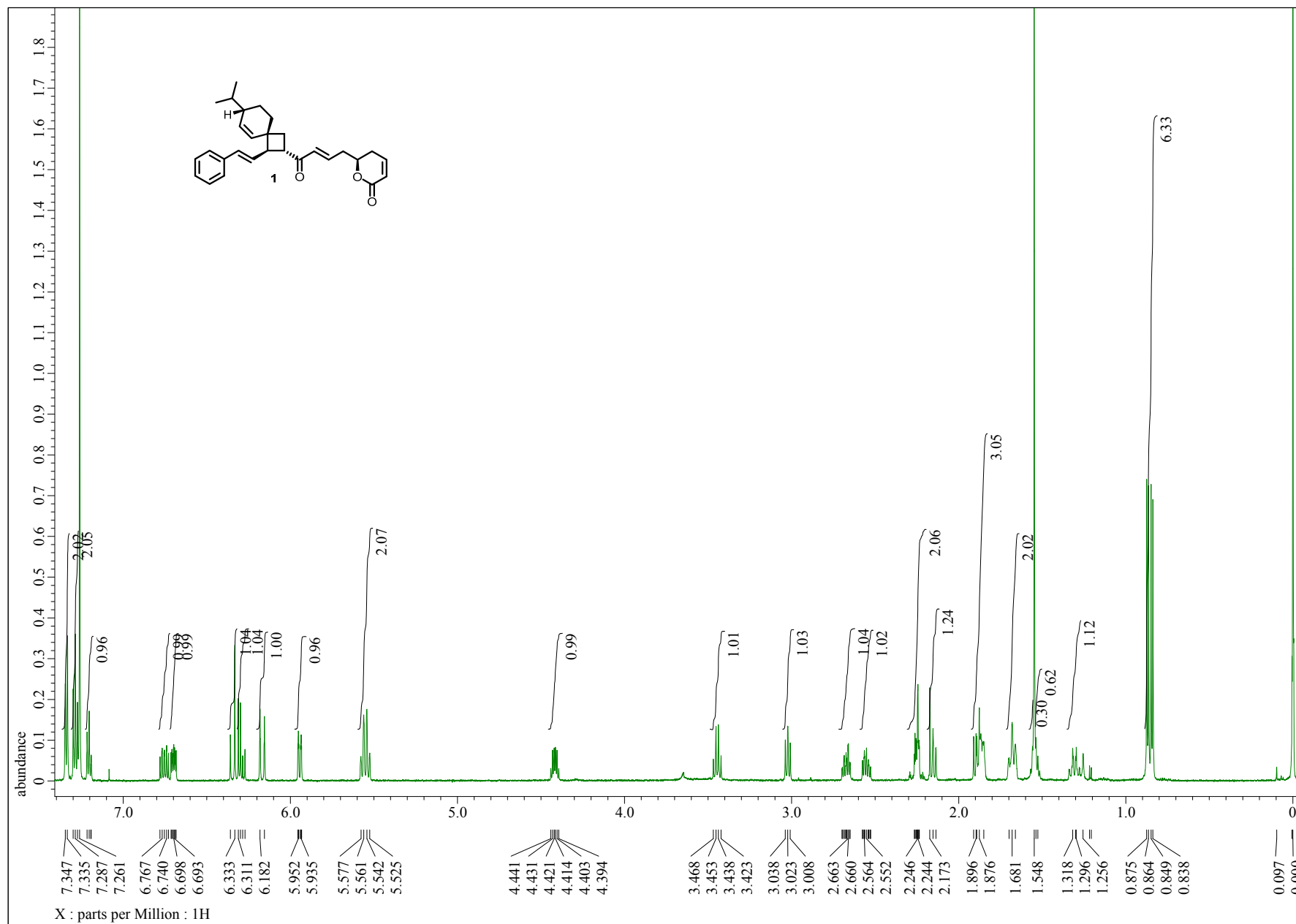


Figure S2. ^{13}C NMR spectrum of **1** (150MHz, in CDCl_3)

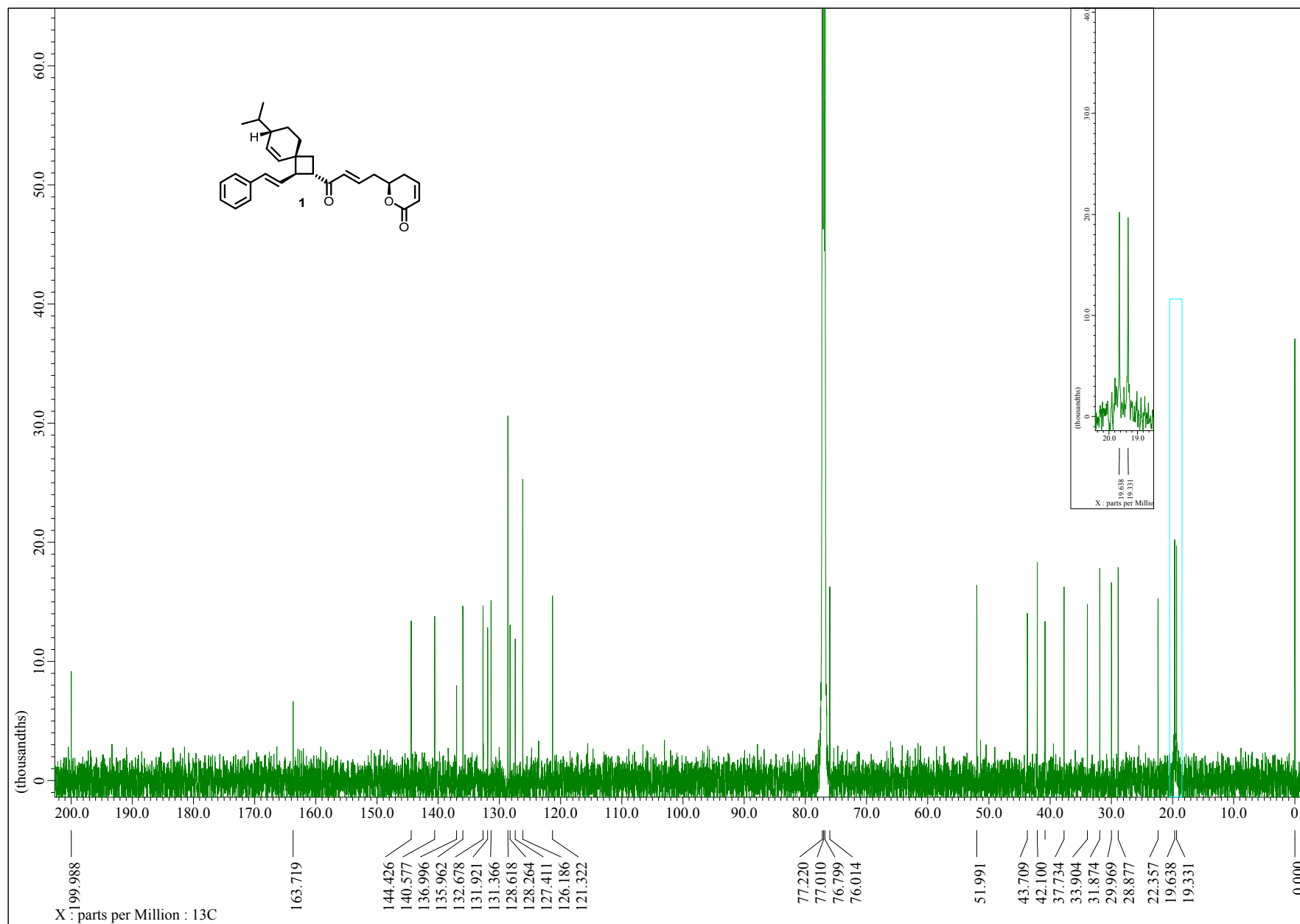


Figure S3. H-HCOSY spectrum of **1** (600 MHz, in CDCl₃)

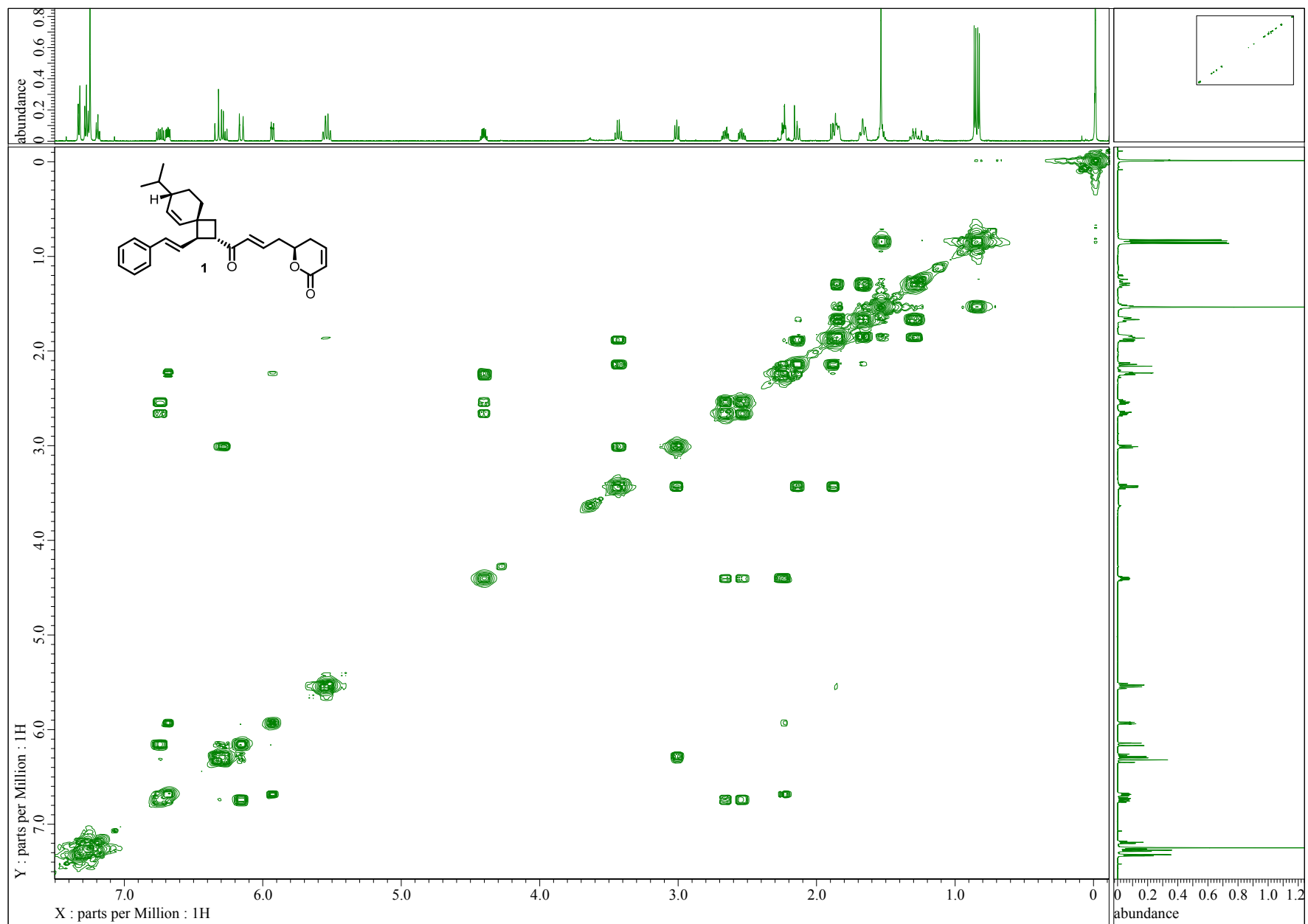


Figure S4 HMQC spectrum of **1** (600MHz, in CDCl₃)

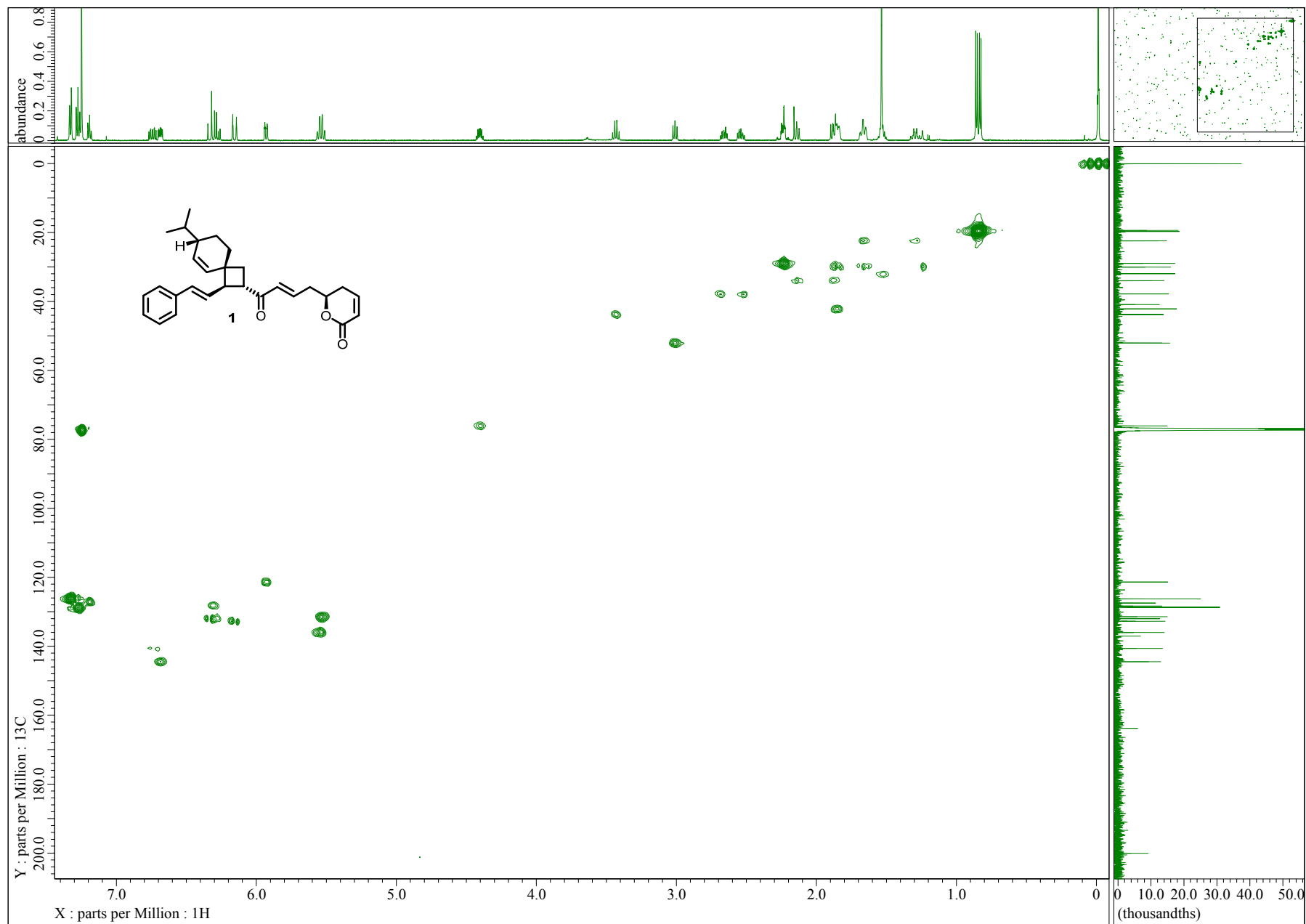


Figure S5. HMBC spectrum of **1** (600MHz, in CDCl₃)

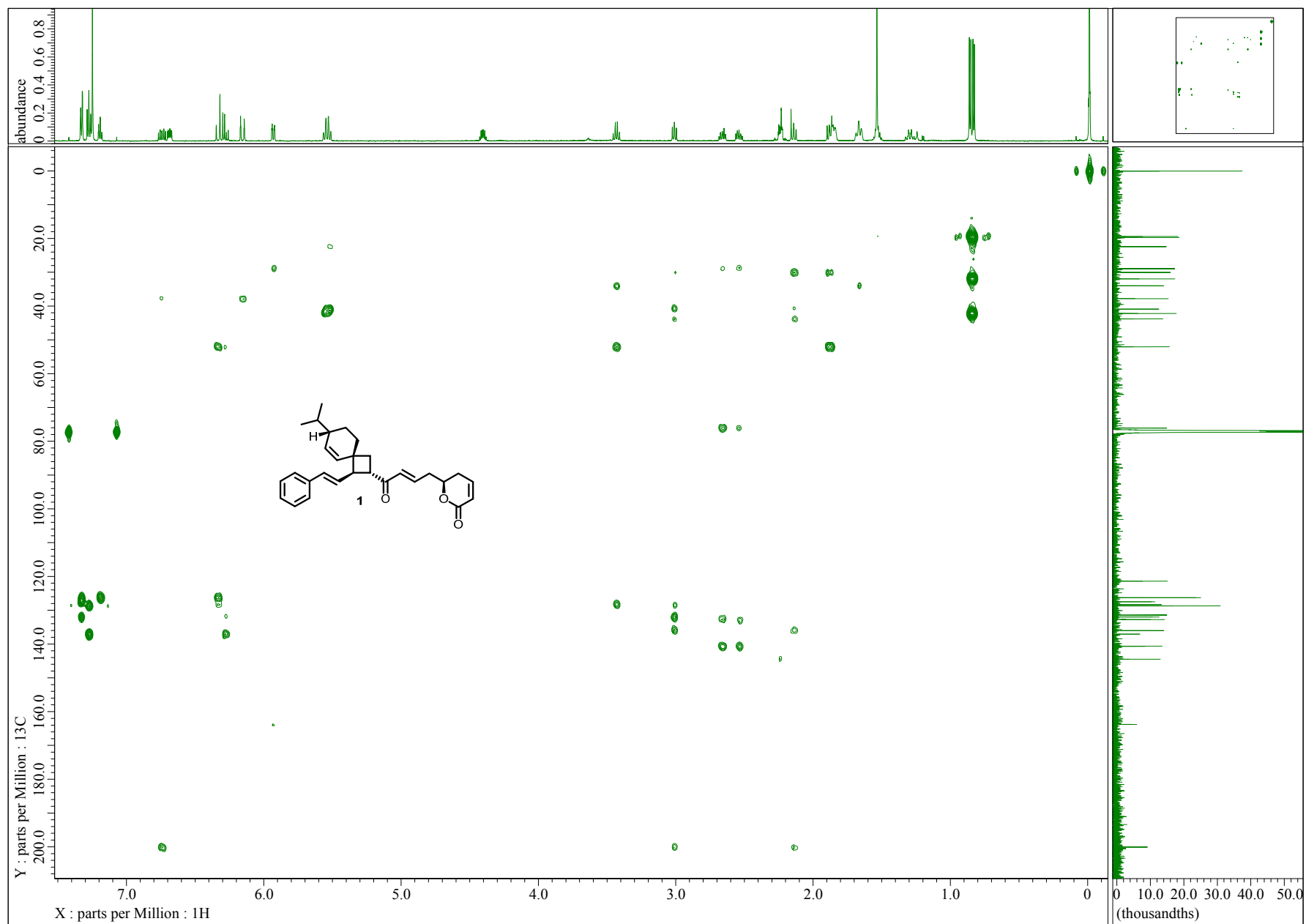


Figure S6. NOESY spectrum of **1** (400MHz, in CDCl₃)

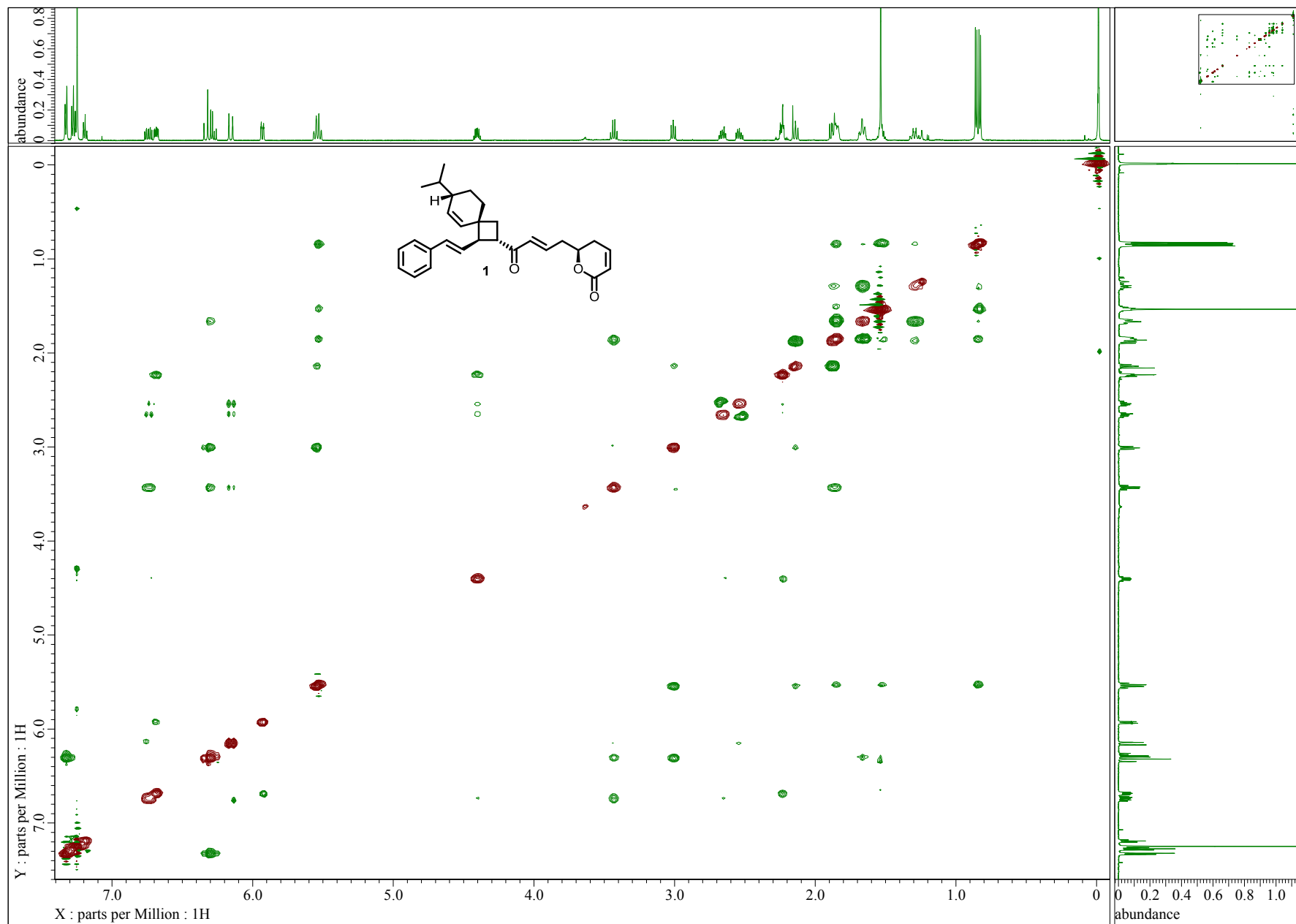


Figure S7. ^1H NMR spectrum of **2** (600 MHz, in CDCl_3)

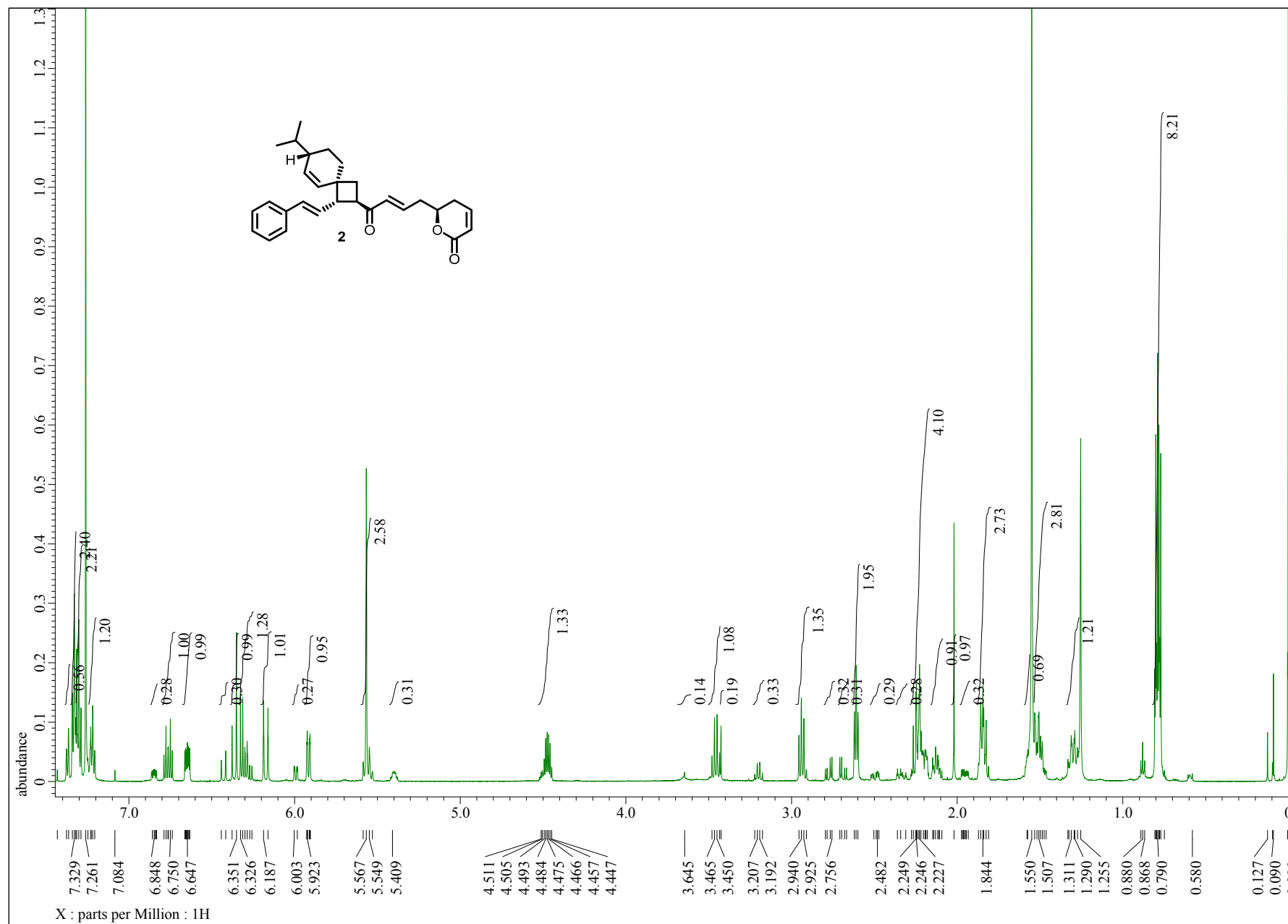


Figure S8. ^{13}C NMR spectrum of **2** (150MHz, in CDCl_3)

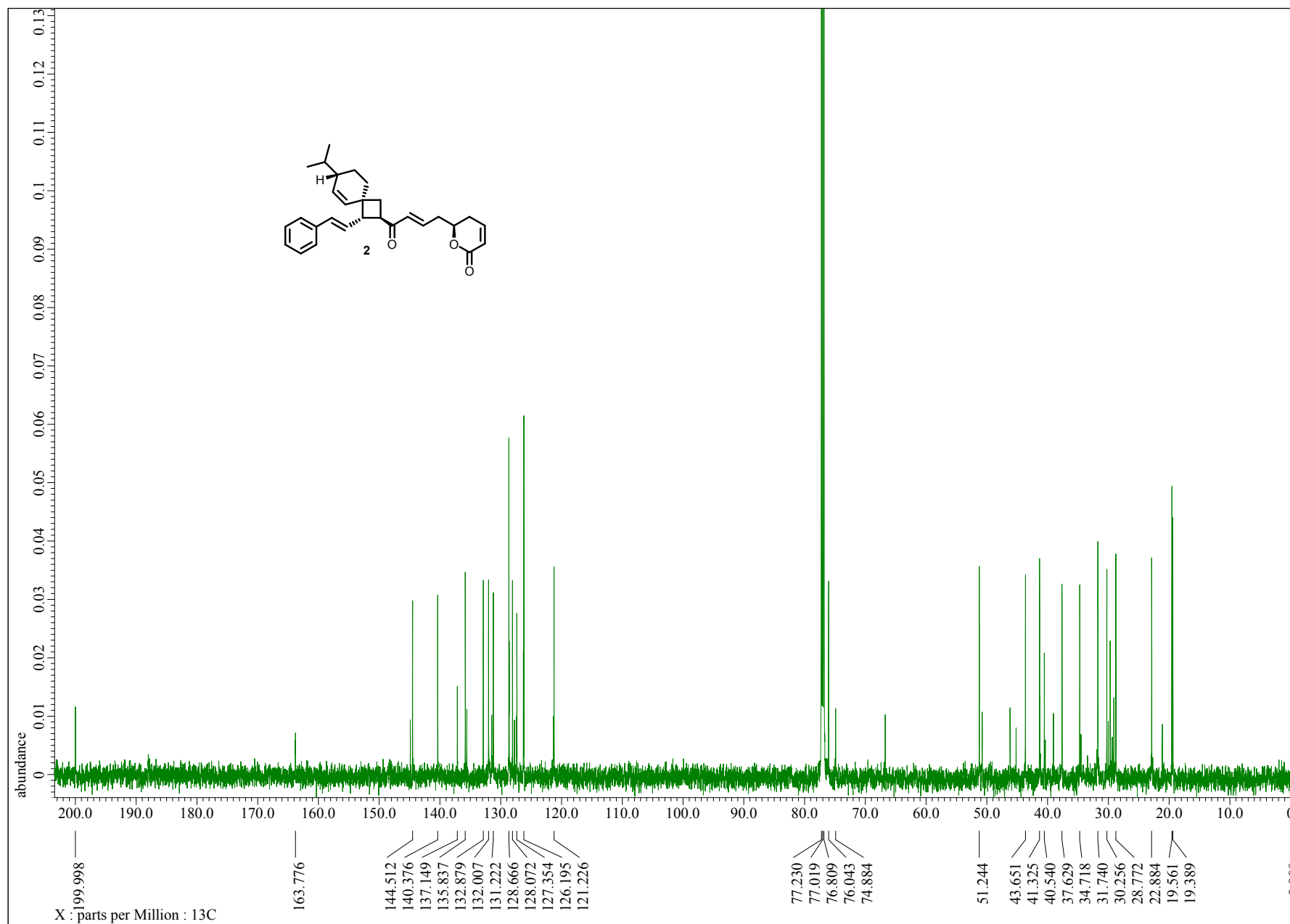


Figure S9. H-HCOSY spectrum of **2** (600 MHz, in CDCl₃)

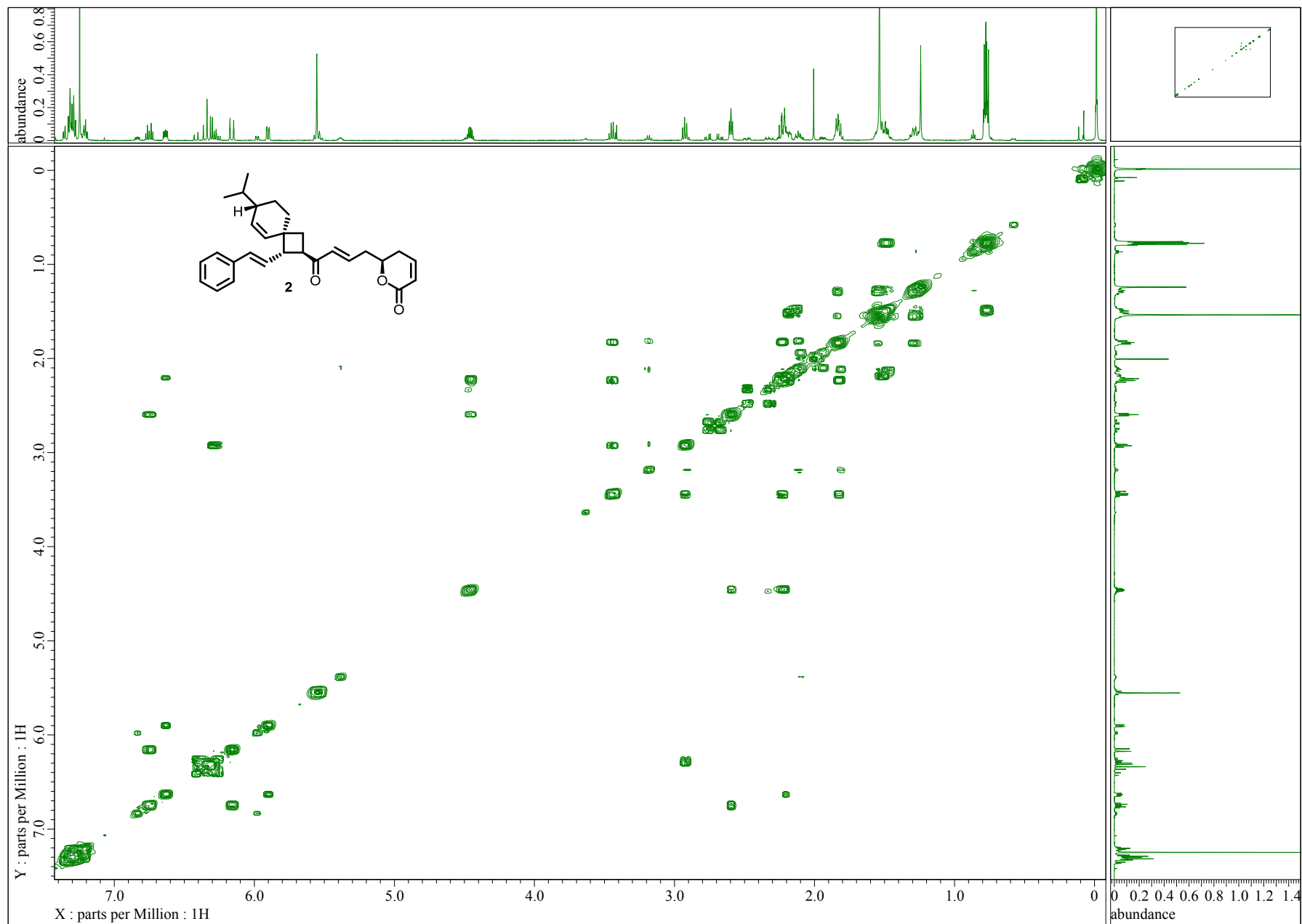


Figure S10. HMQC spectrum of **2** (600MHz, in CDCl₃)

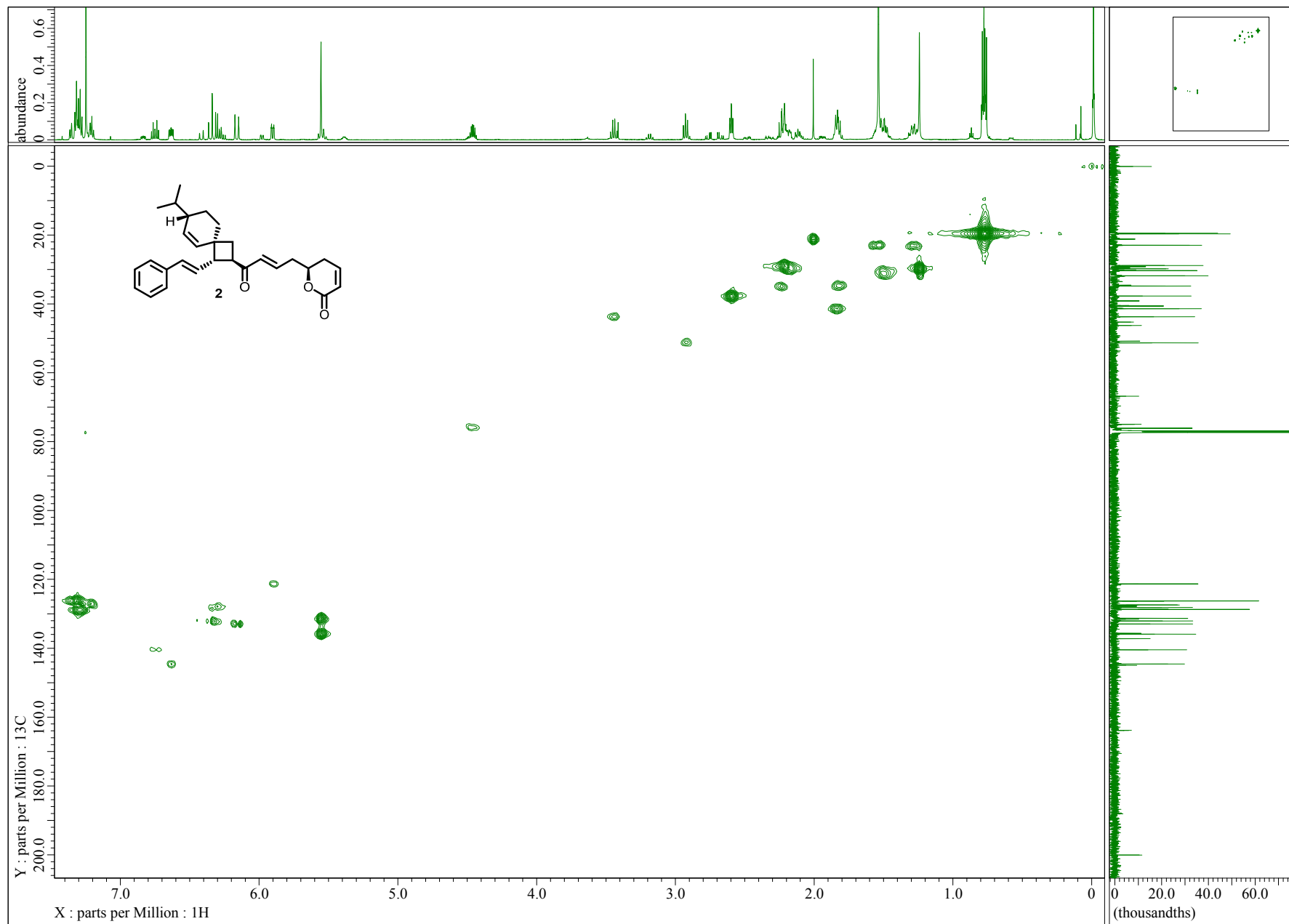


Figure S11. HMBC spectrum of **2** (600MHz, in CDCl₃)

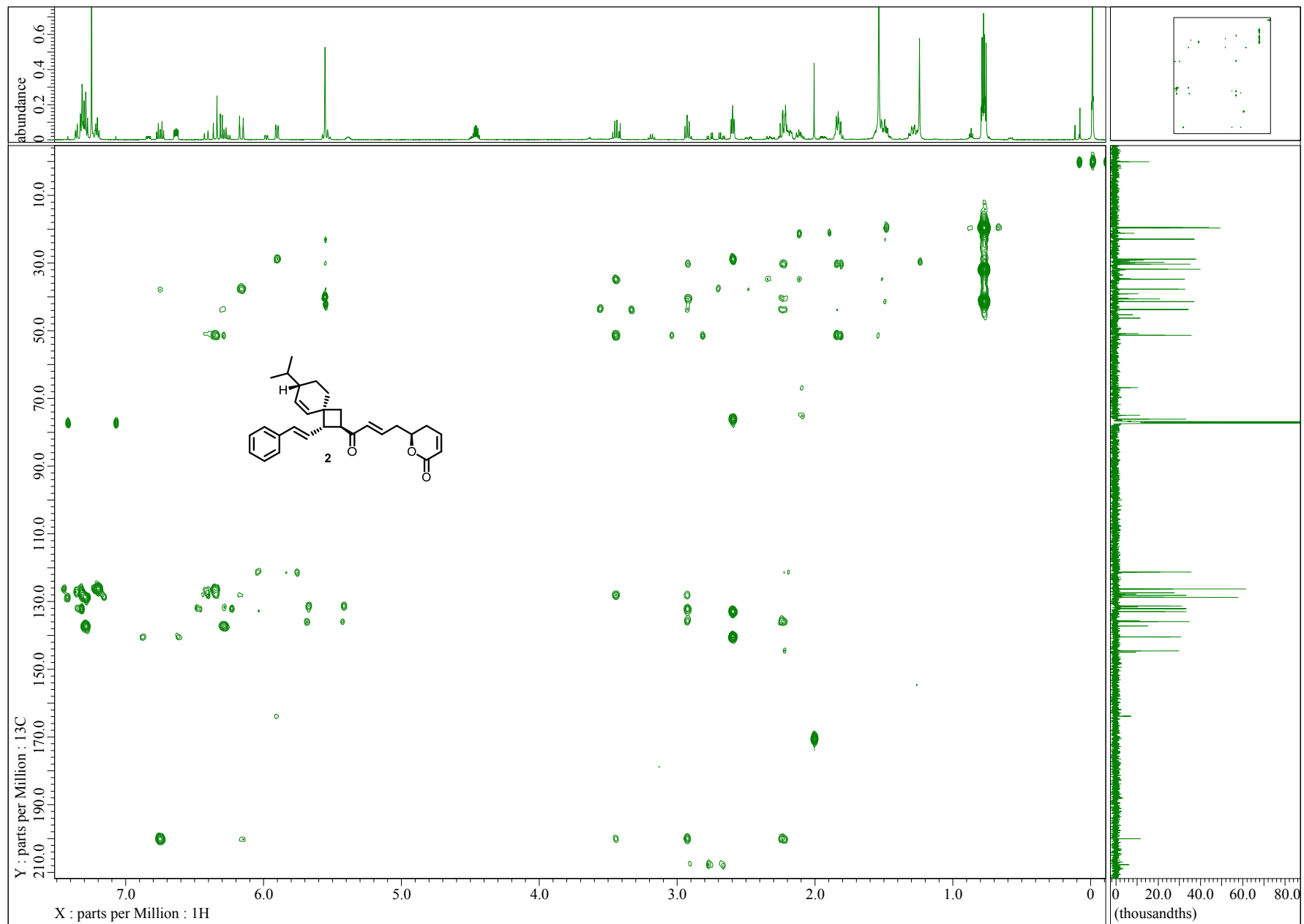


Figure S12. NOESY spectrum of **2** (600MHz, in CDCl₃)

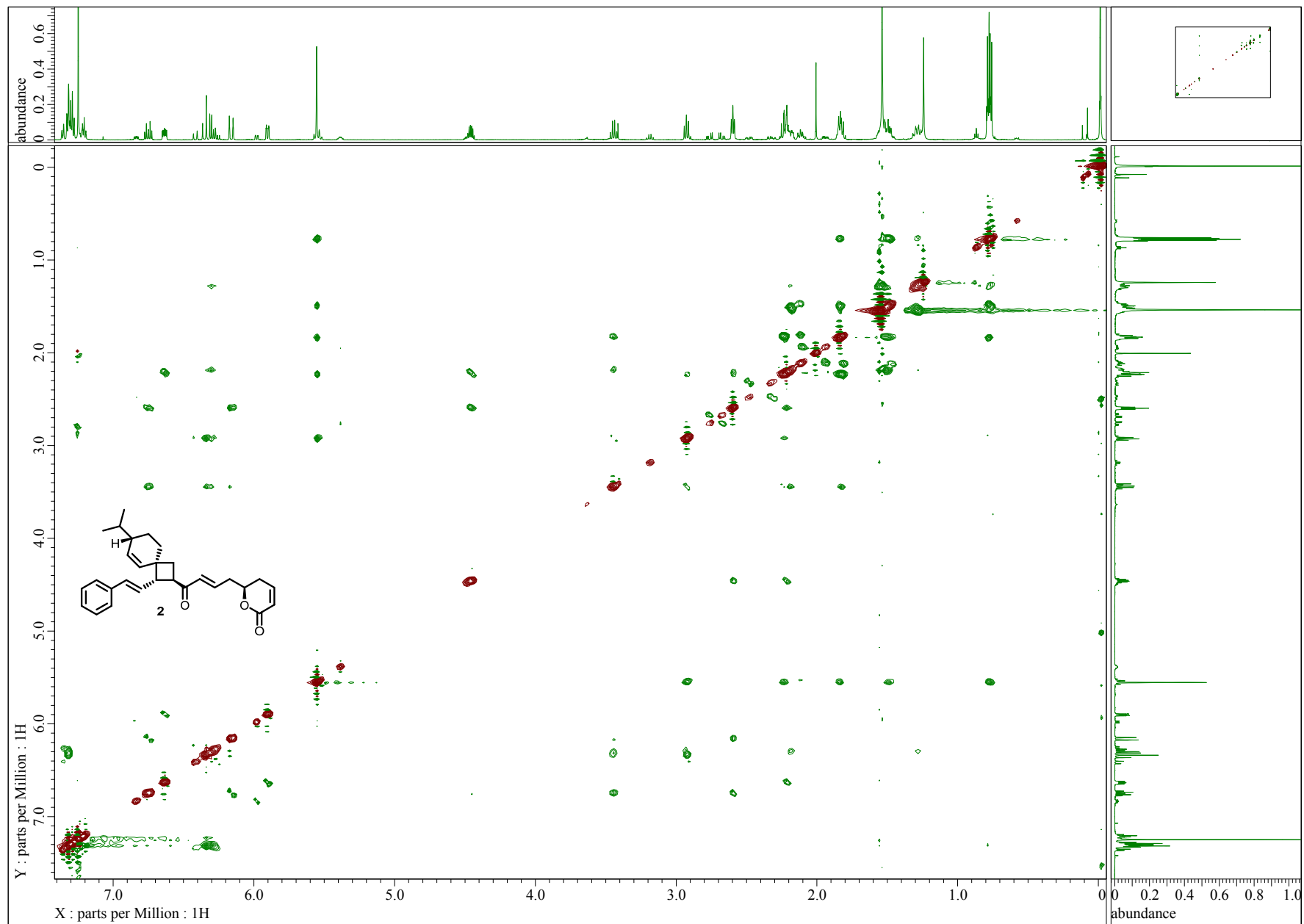


Figure S13. ¹H NMR spectrum of **3** (600 MHz, in CDCl₃)

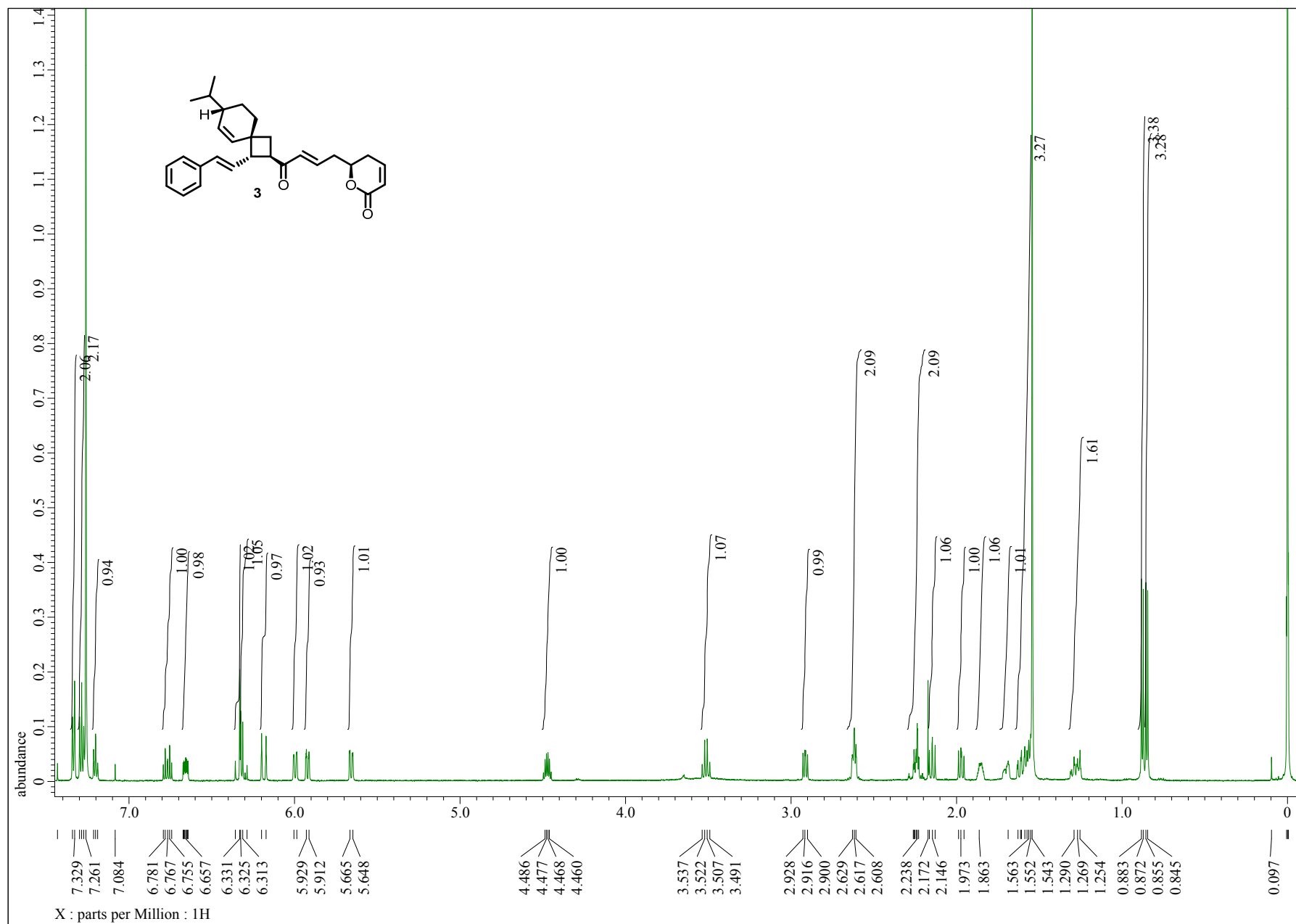


Figure S14. ^{13}C NMR spectrum of **3** (150MHz, in CDCl_3)

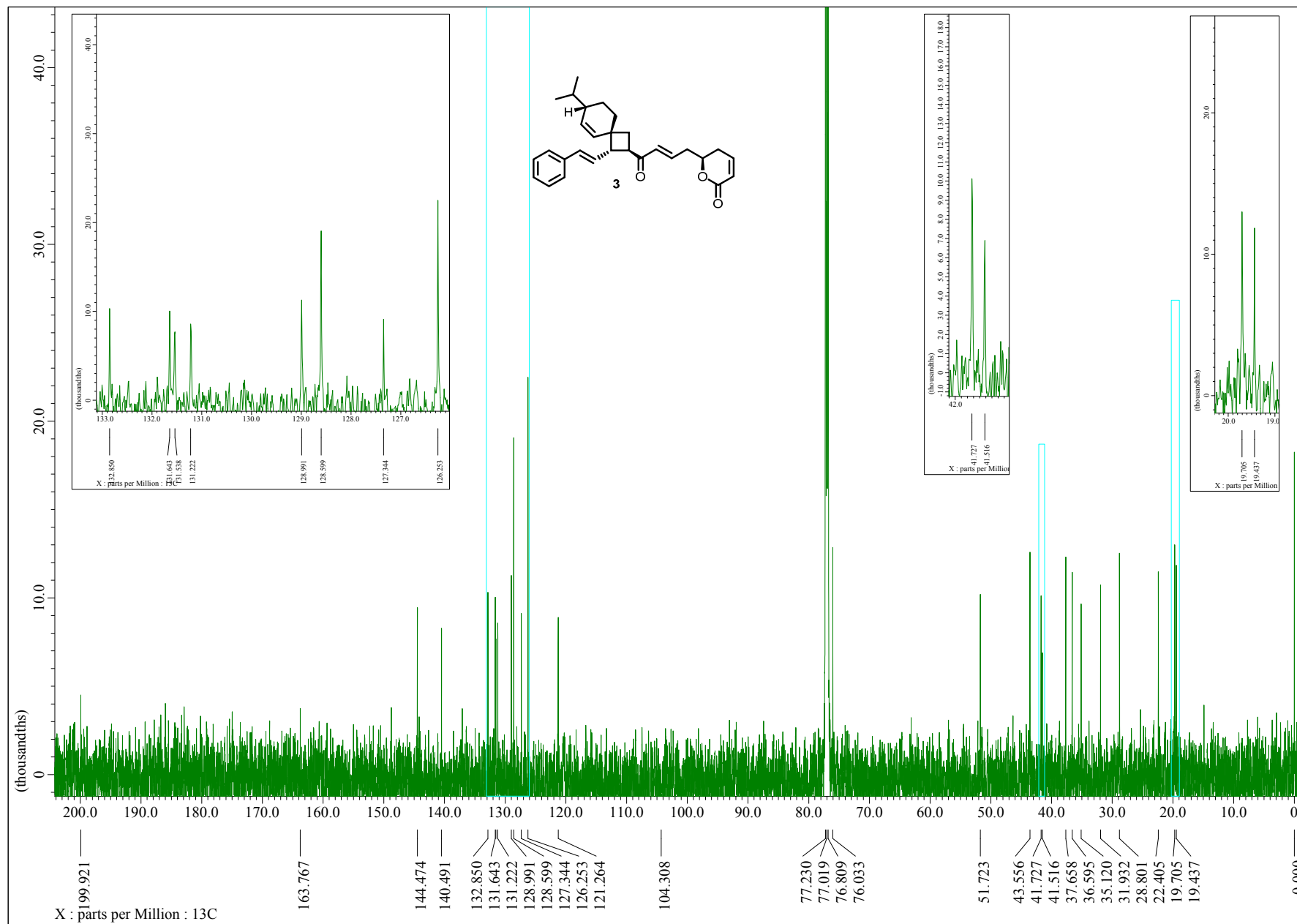


Figure S15. H-HCOSY spectrum of **3** (600 MHz, in CDCl₃)

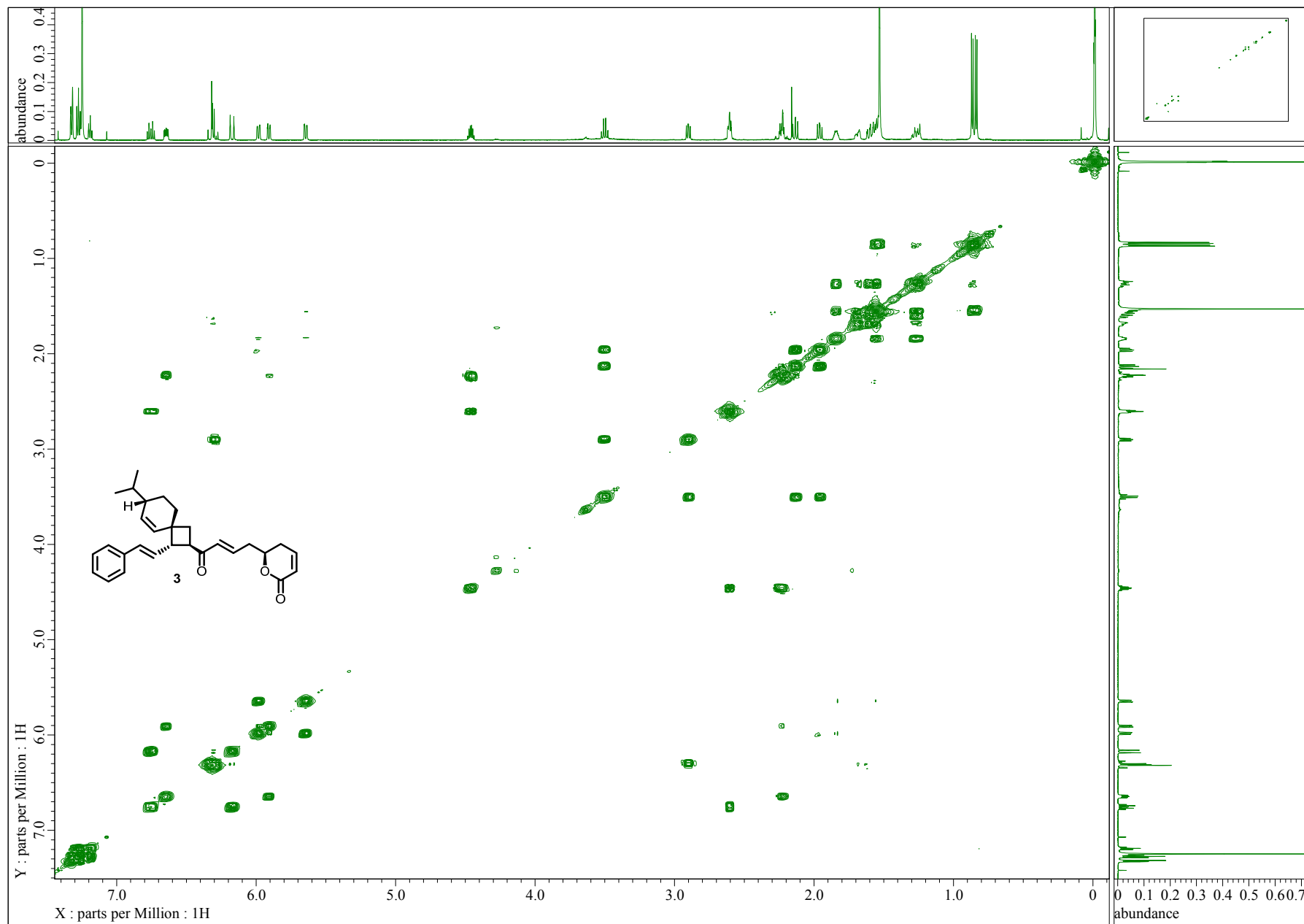


Figure S16. HMQC spectrum of **3** (600MHz, in CDCl₃)

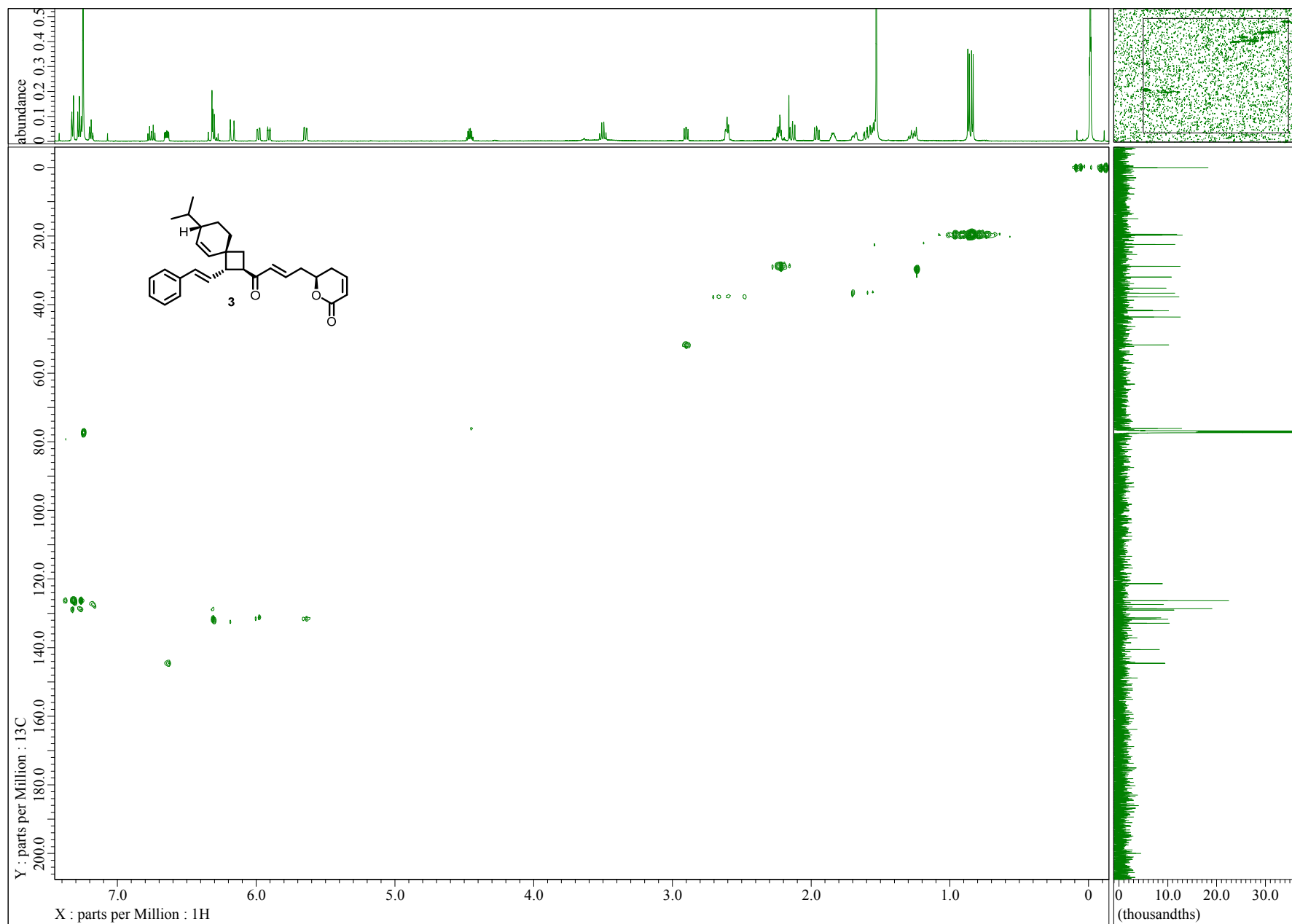


Figure S17. HMBC spectrum of **3** (600MHz, in CDCl₃)

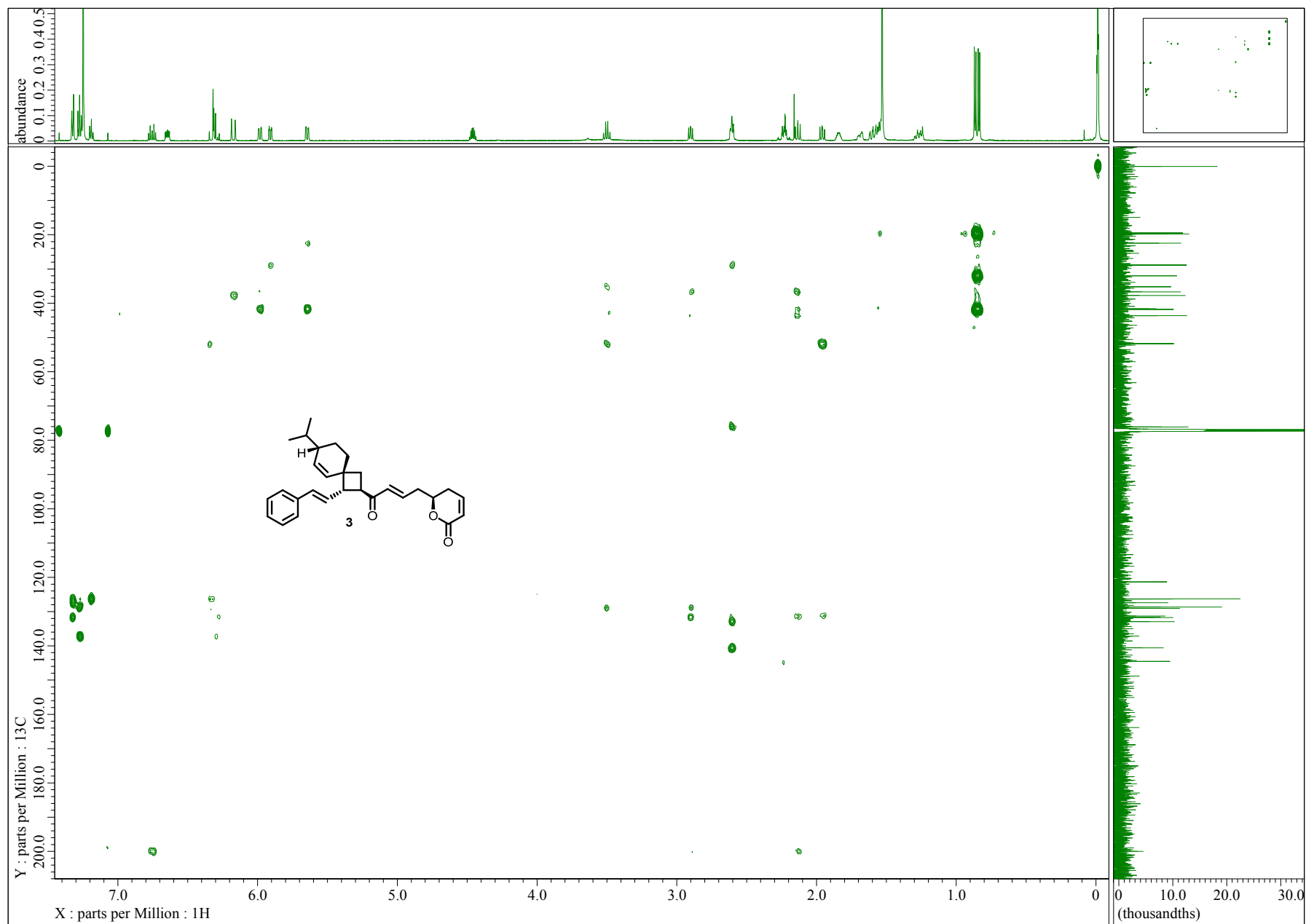


Figure S18. NOESY spectrum of **3** (400MHz, in CDCl₃)

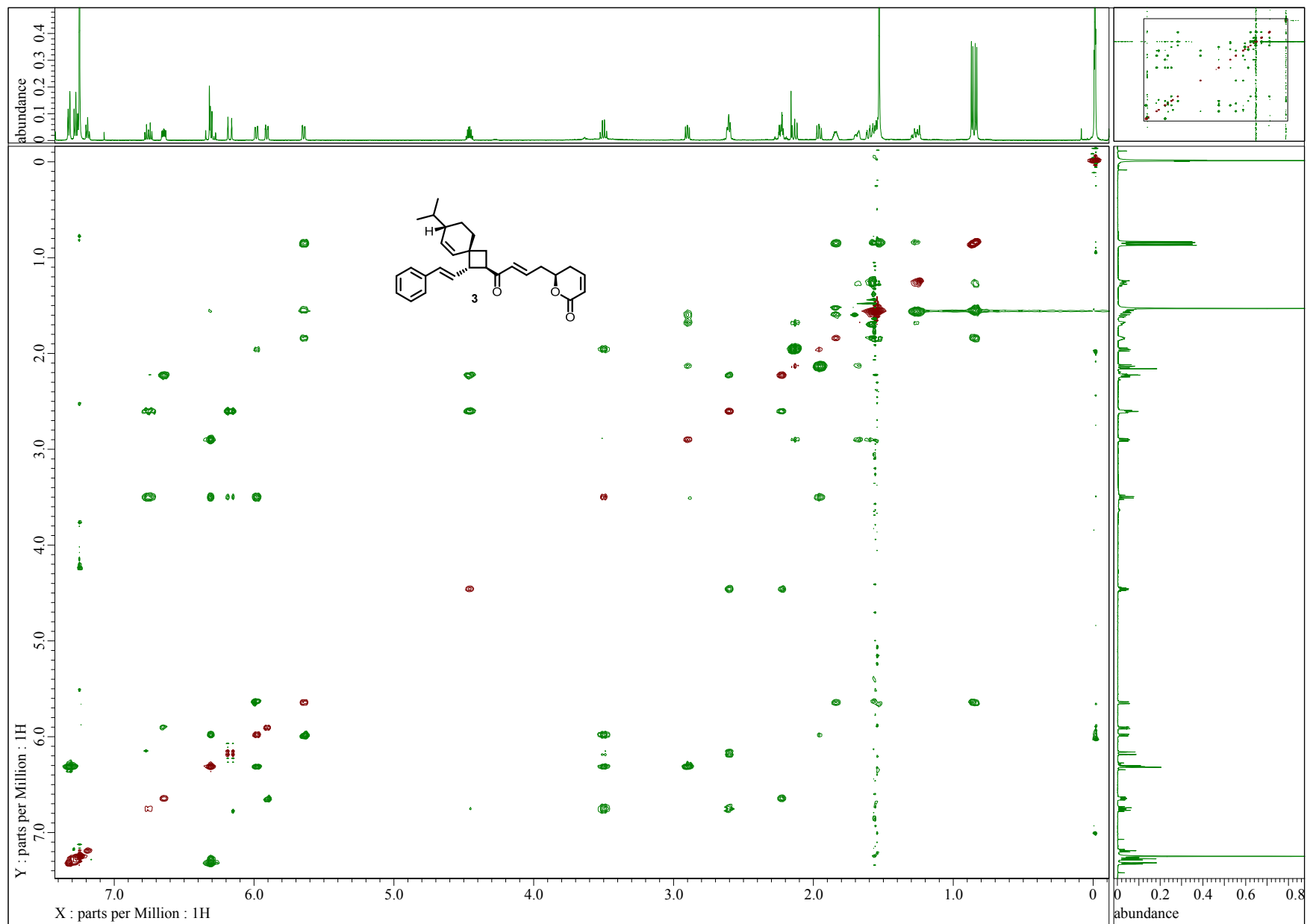


Figure S19. ¹H NMR spectrum of **4** (600 MHz, in CDCl₃)

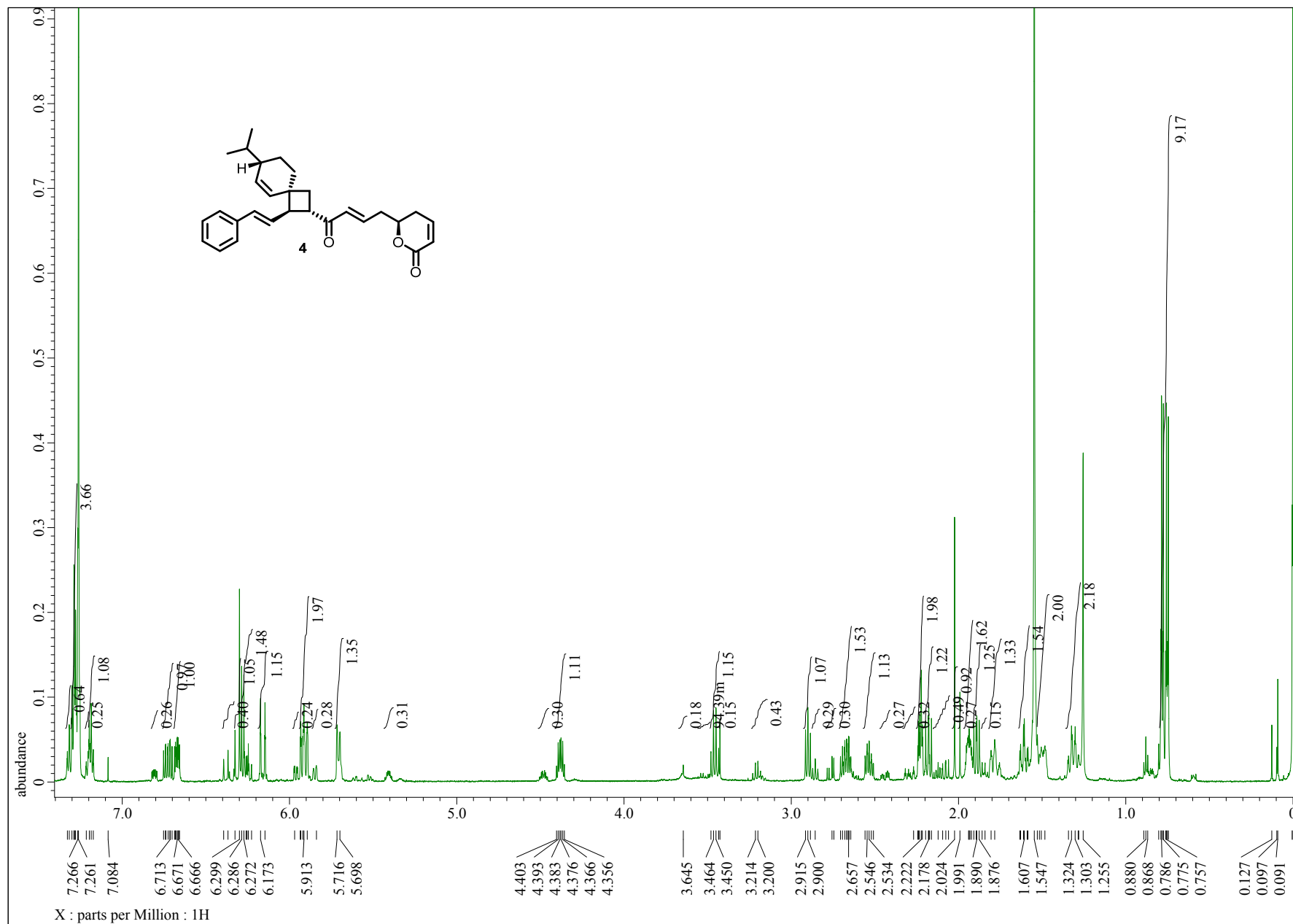


Figure S20. ^{13}C NMR spectrum of **4** (150 MHz, in CDCl_3)

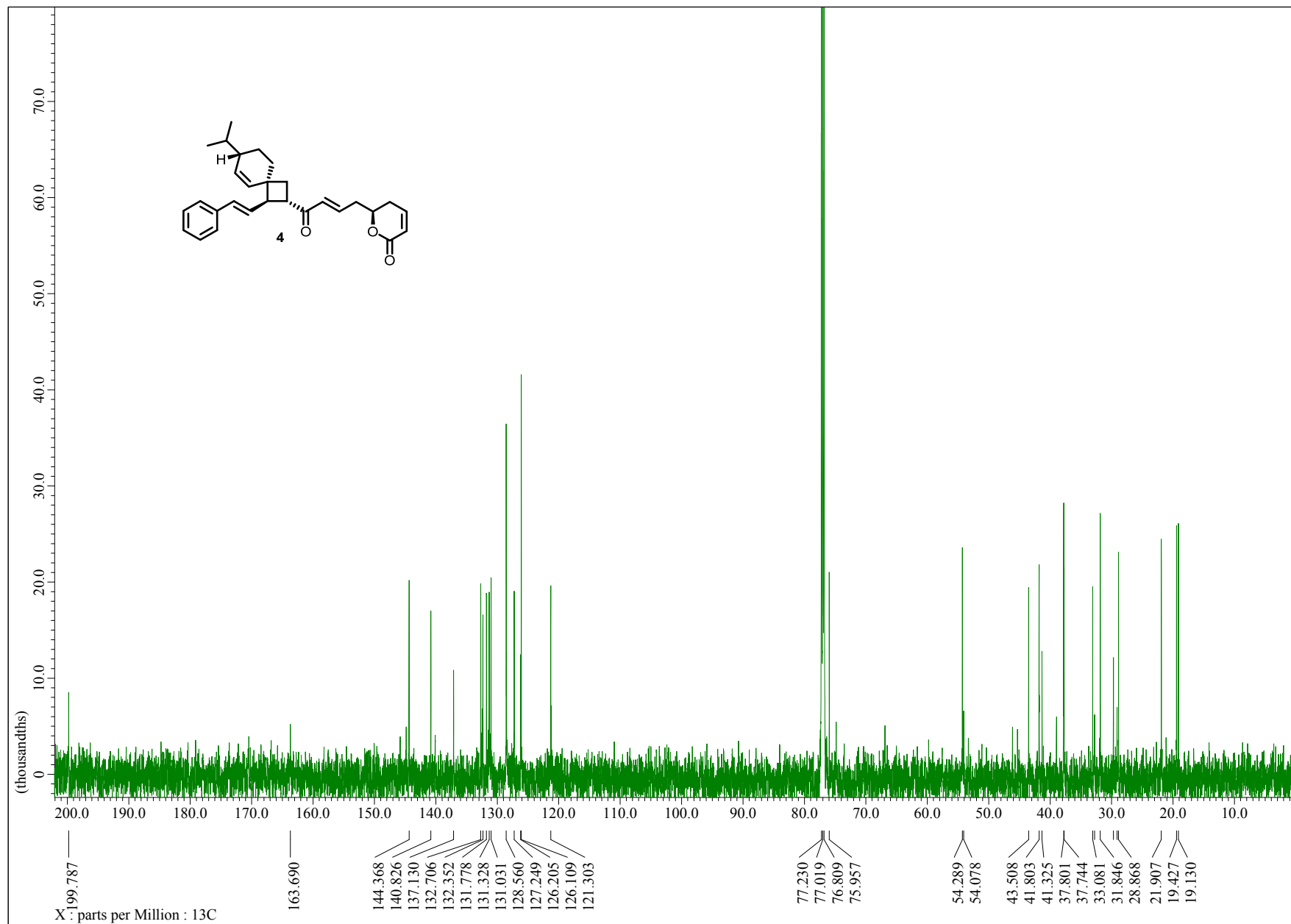


Figure S21. H-HCOSY spectrum of **4** (600 MHz, in CDCl₃)

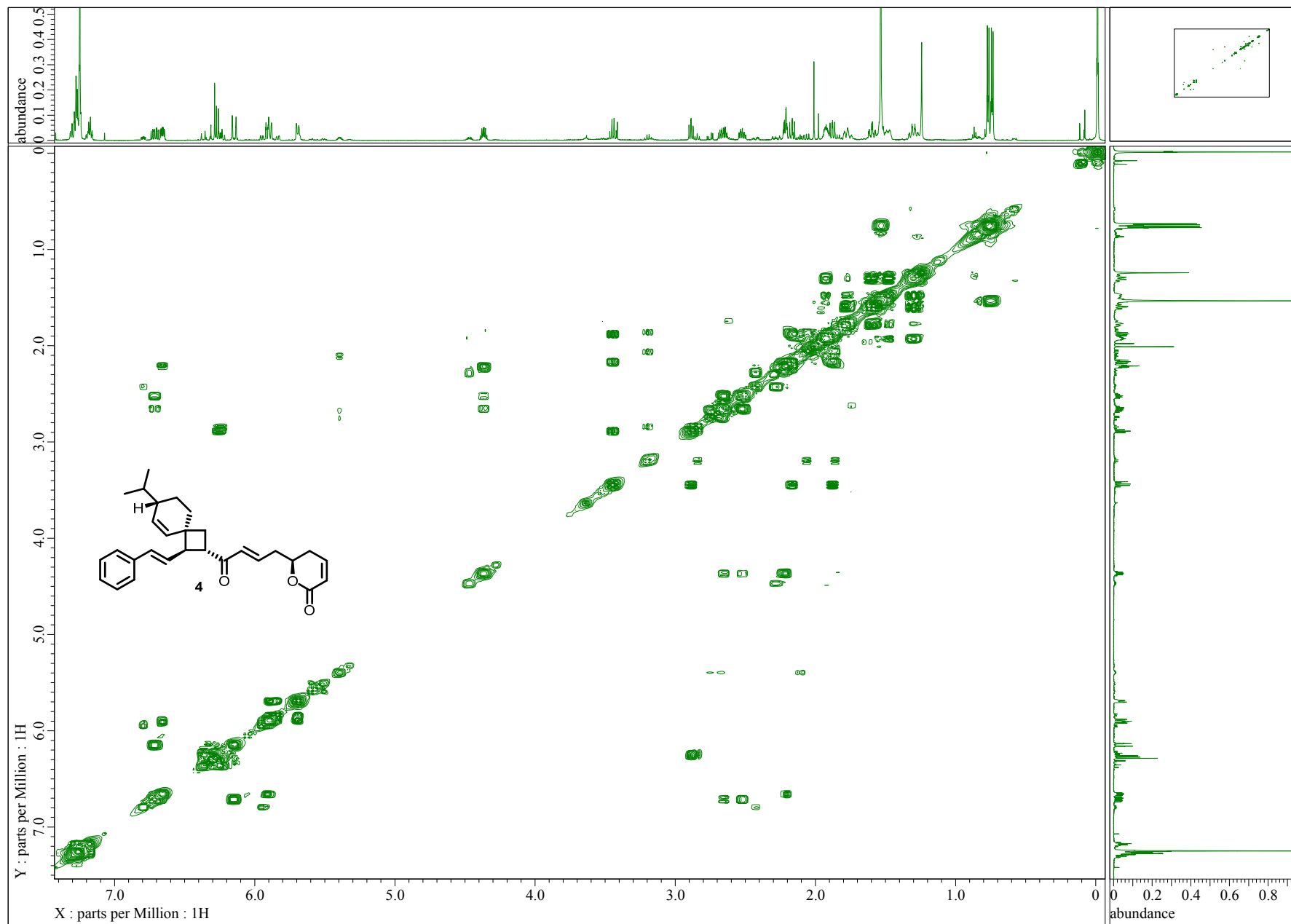


Figure S22. HMQC spectrum of **4** (600MHz, in CDCl₃)

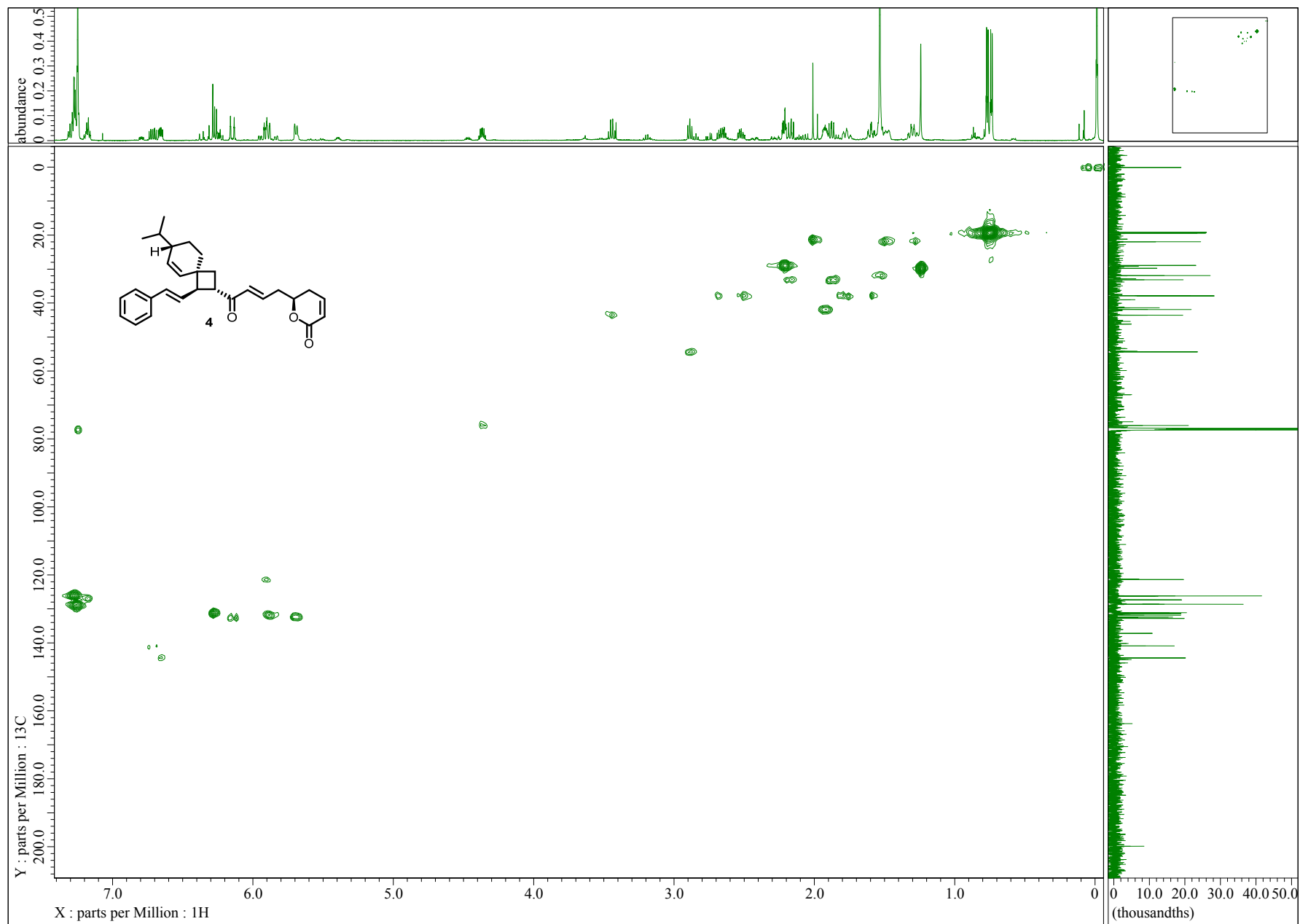


Figure S23. HMBC spectrum of **4** (600MHz, in CDCl₃)

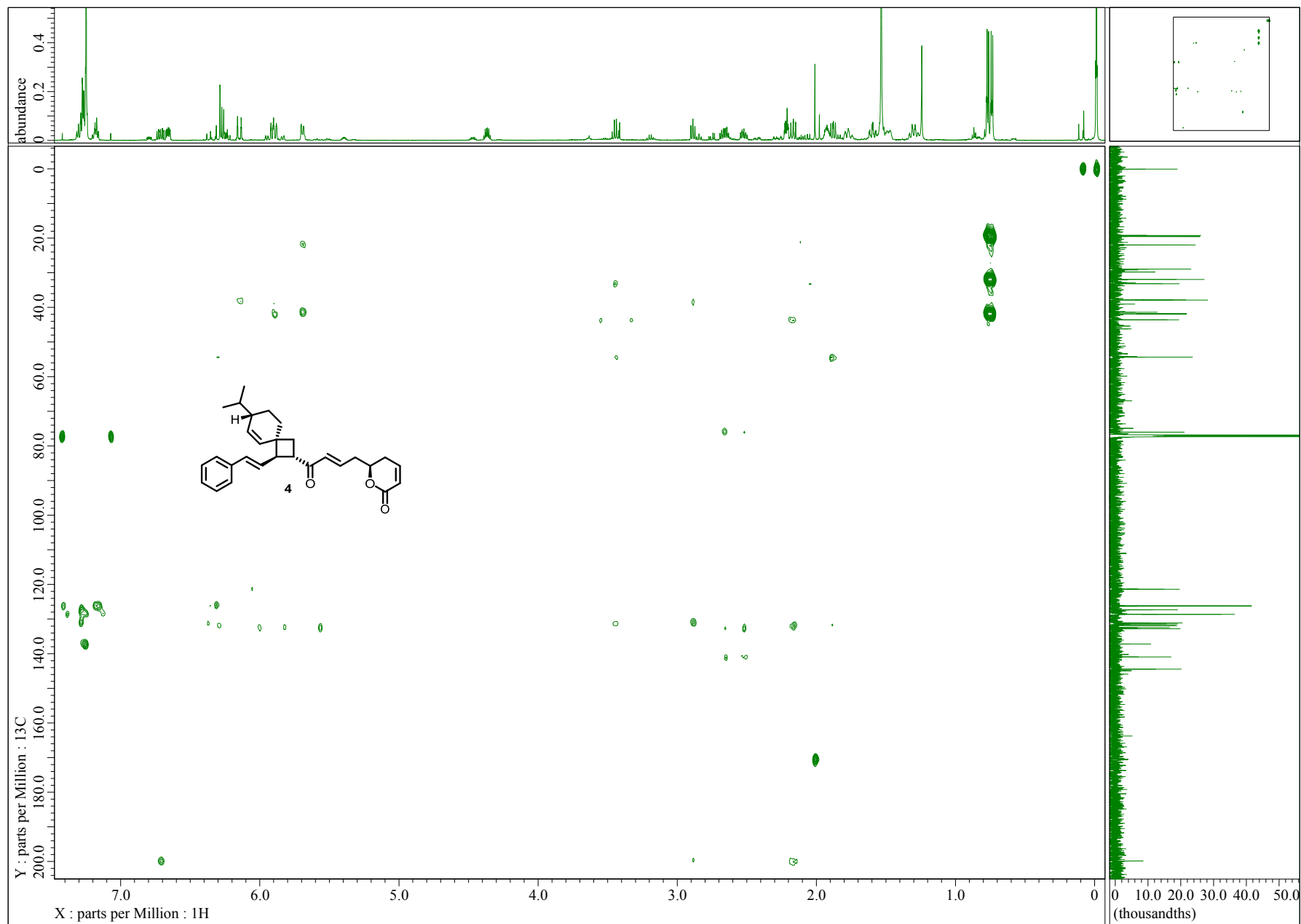


Figure S24. NOESY spectrum of **4** (400MHz, in CDCl₃)

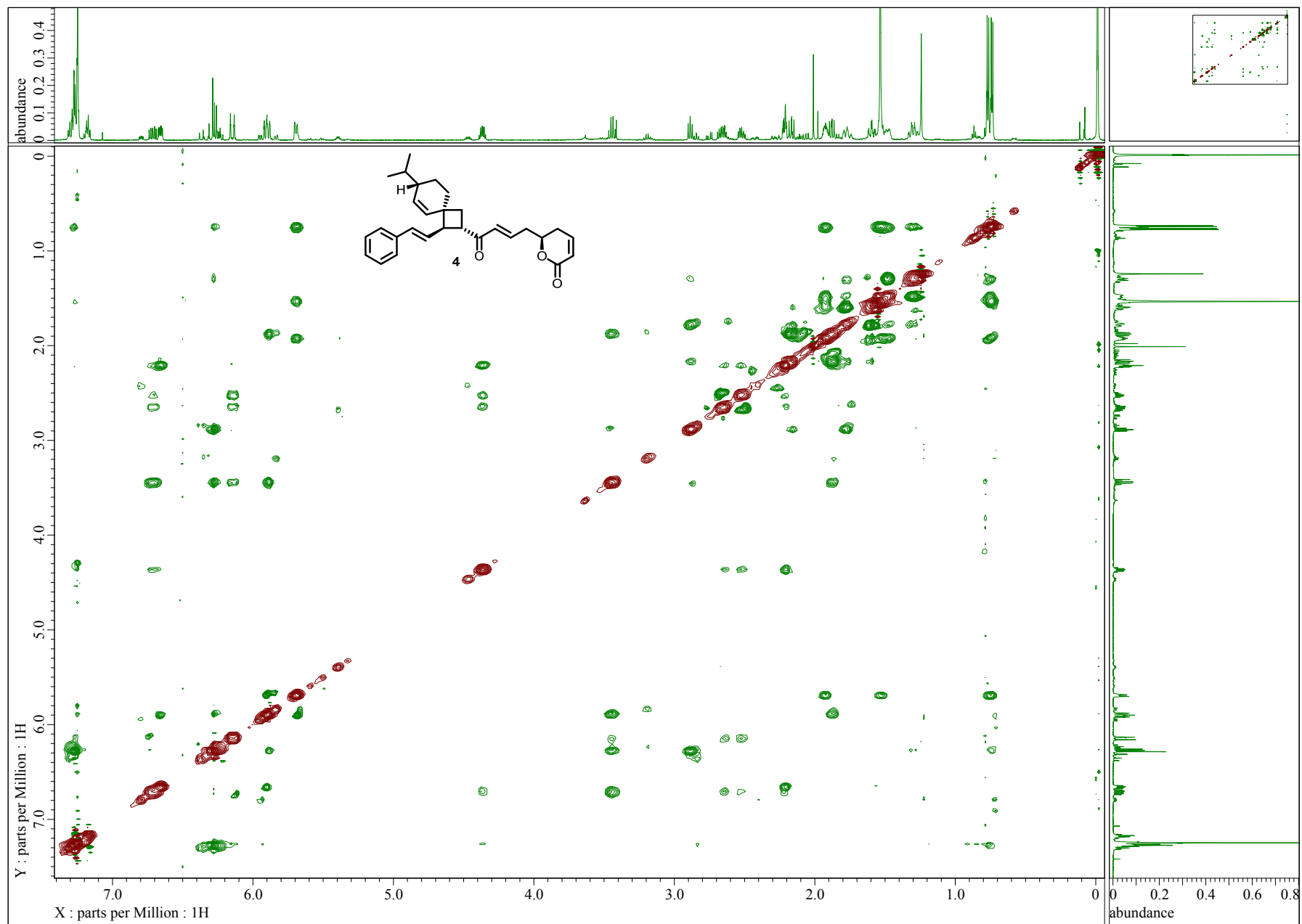


Figure S25. ¹H NMR spectrum of **5** (600 MHz, in CDCl₃)

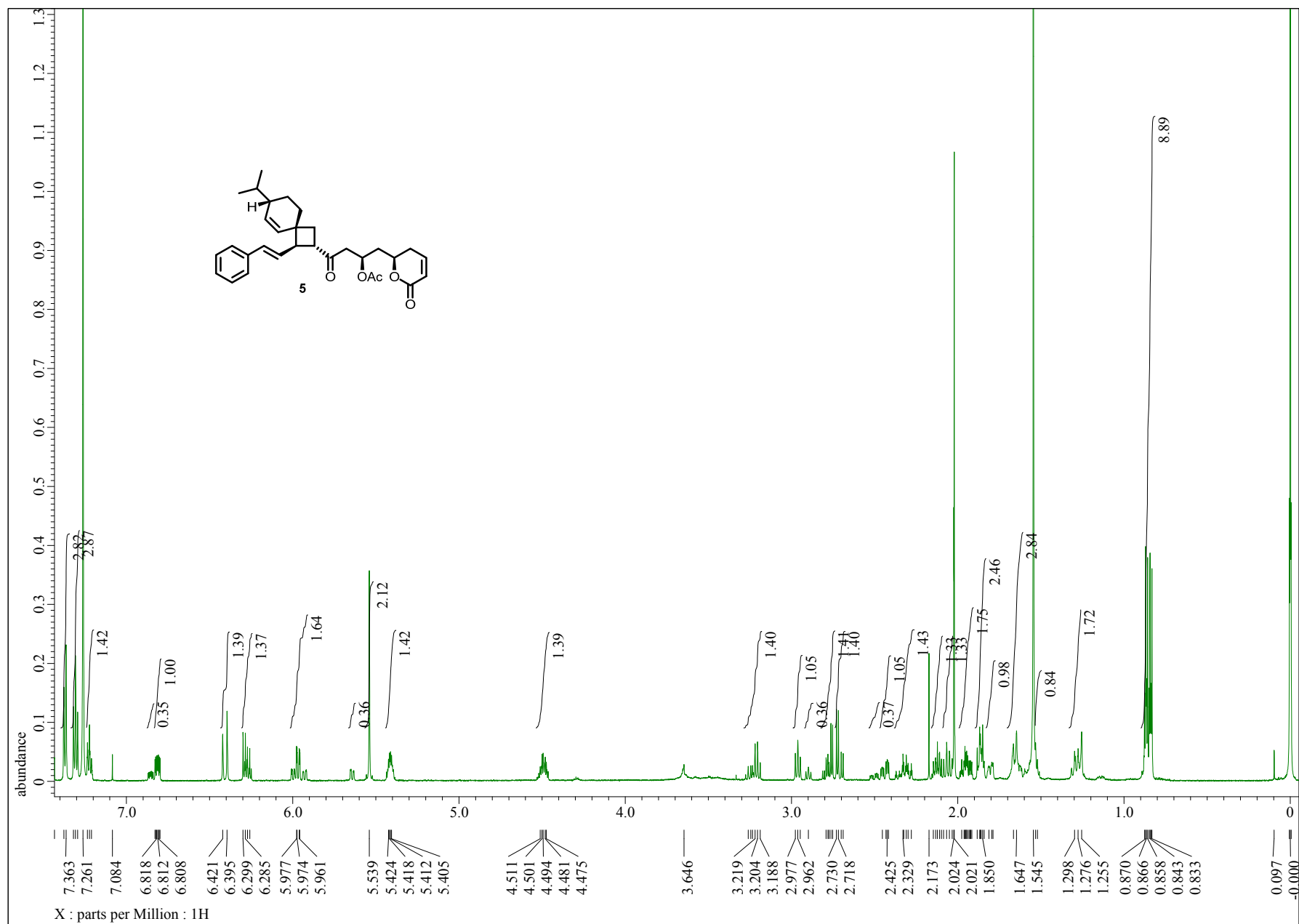


Figure S26. ^{13}C NMR spectrum of **5** (150MHz, in CDCl_3)

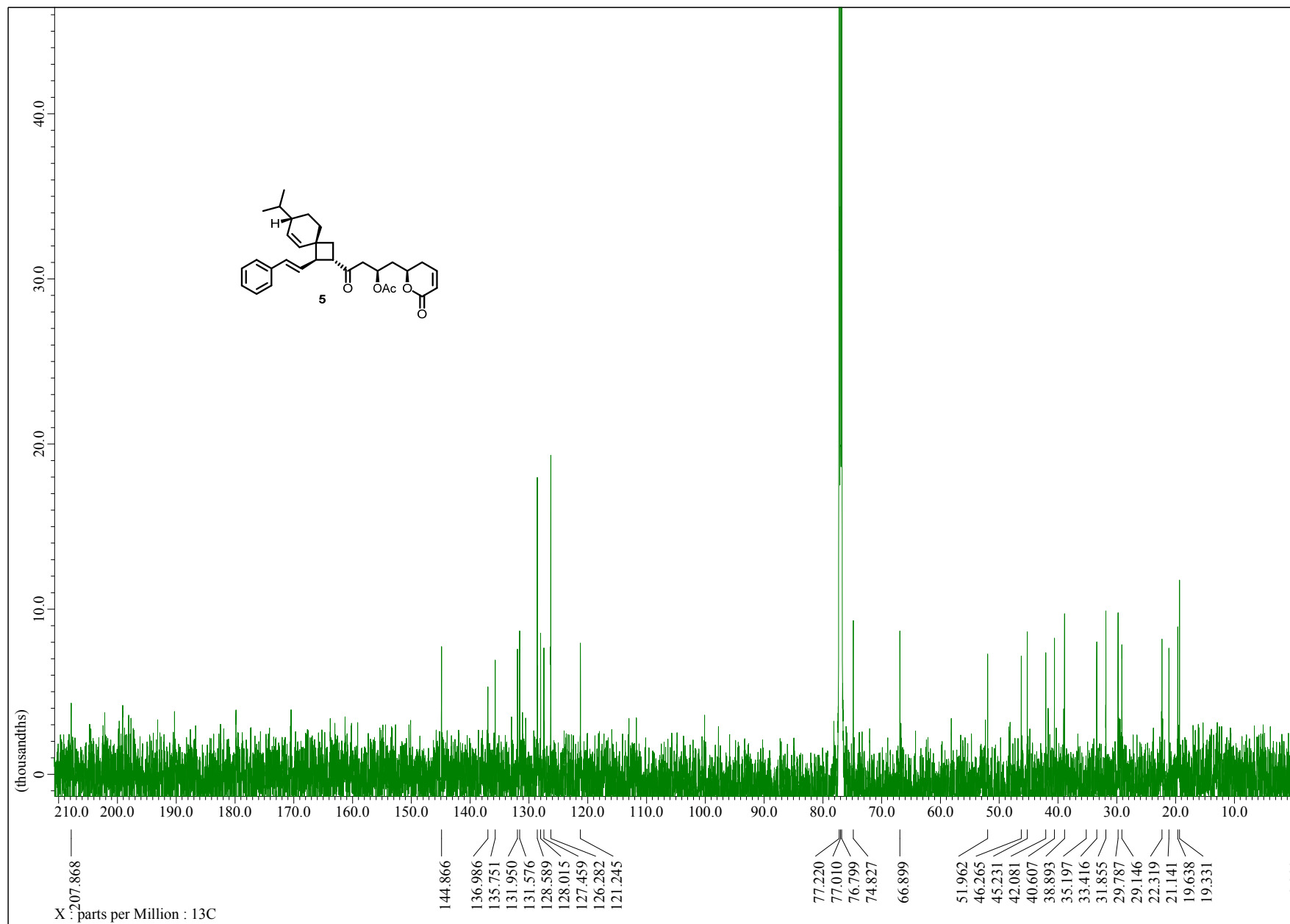


Figure S27. H-HCOSY spectrum of **5** (600 MHz, in CDCl₃)

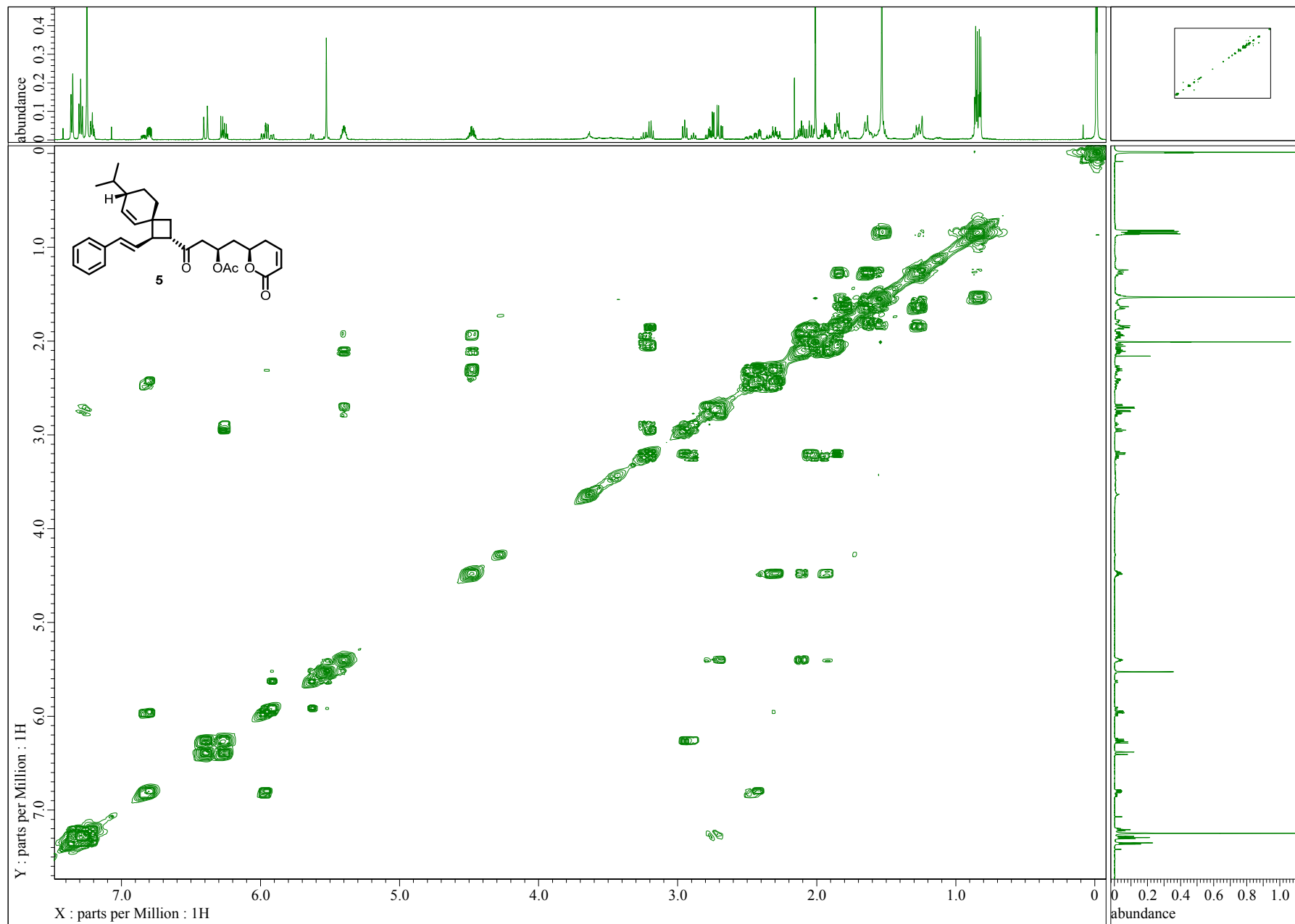


Figure S28. HMQC spectrum of **5** (600MHz, in CDCl₃)

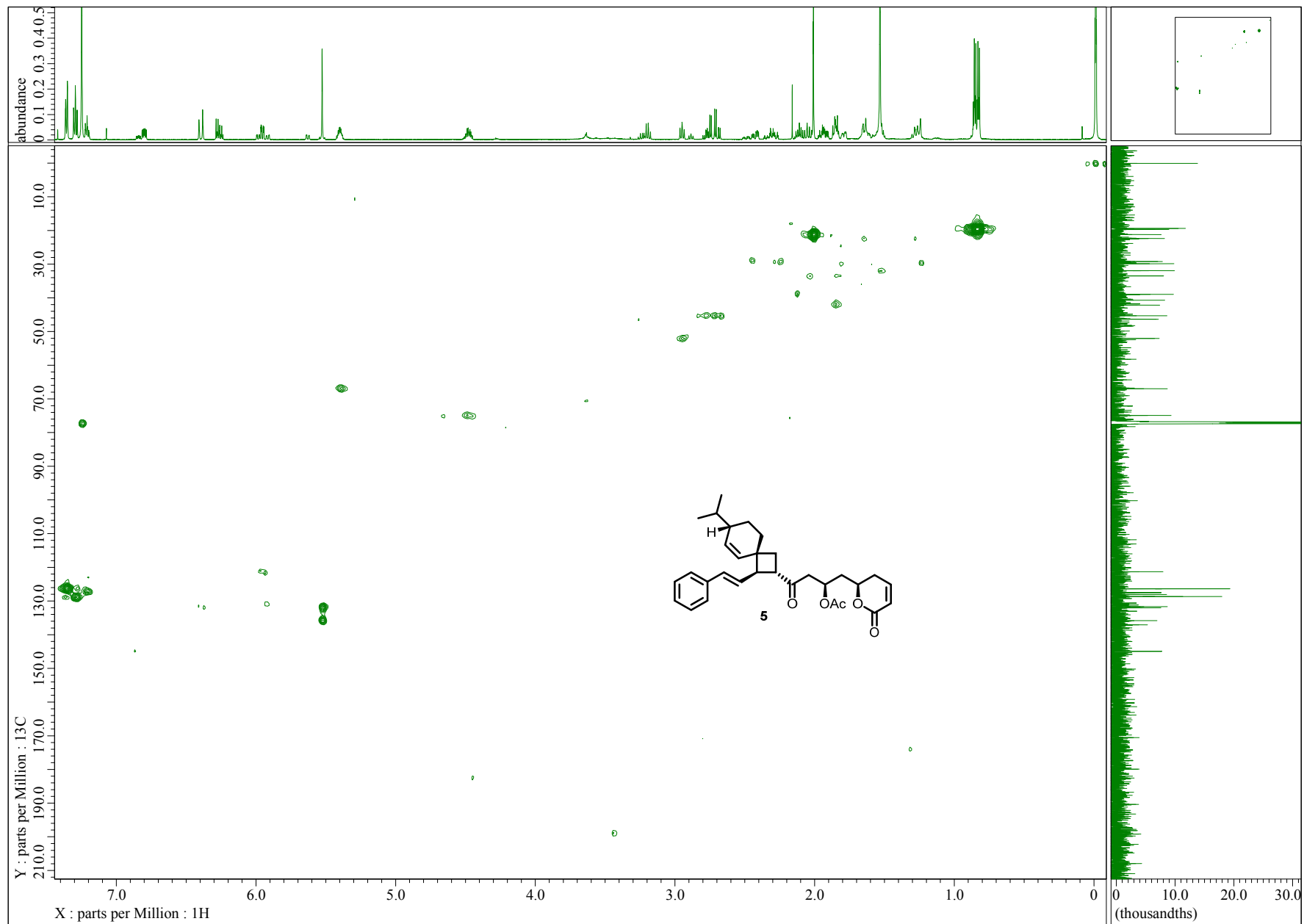


Figure S29. HMBC spectrum of **5** (600MHz, in CDCl₃)

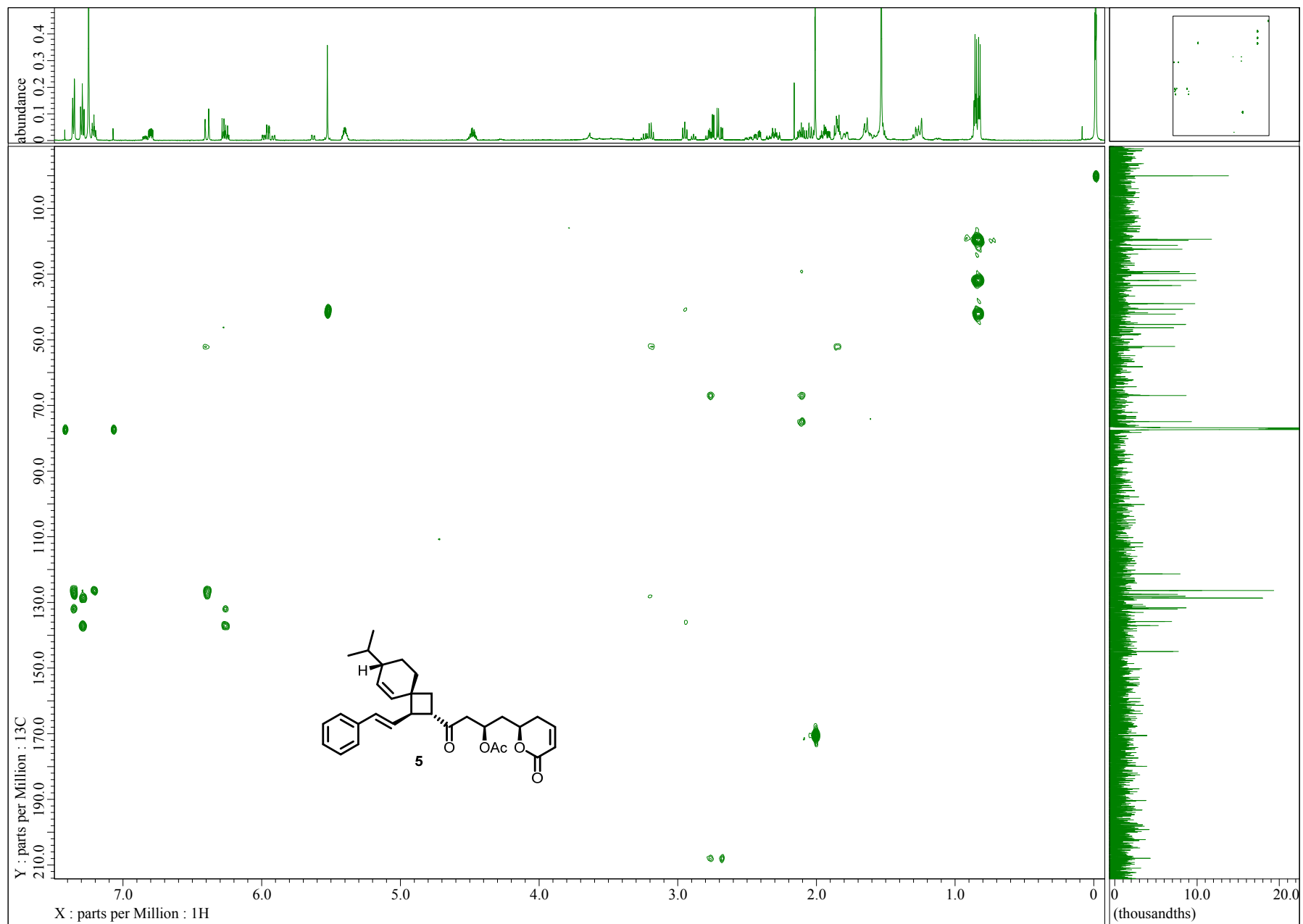


Figure S30. NOESY spectrum of **5** (600MHz, in CDCl₃)

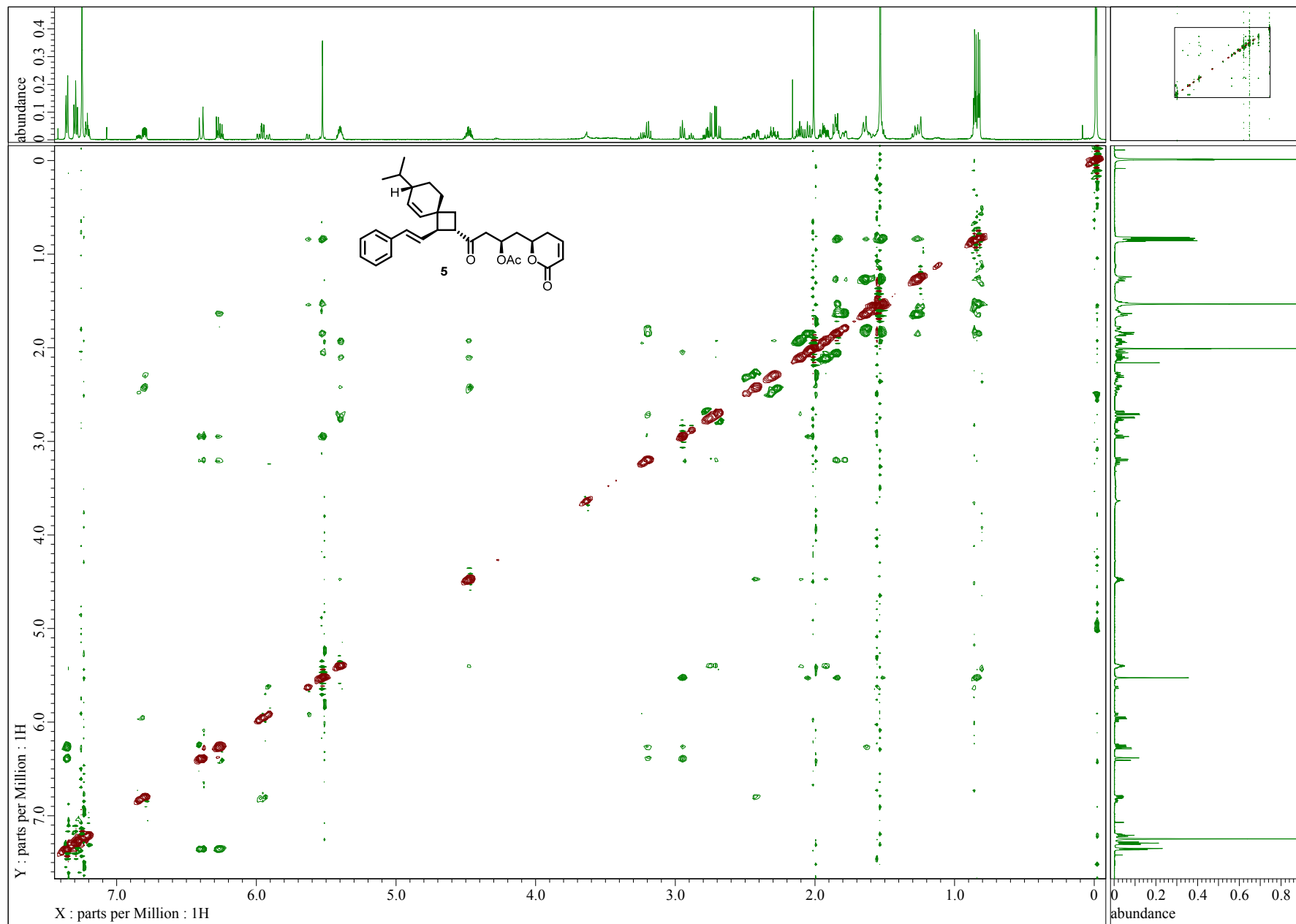


Figure S31. ¹H NMR spectrum of **6** (600 MHz, in CDCl₃)

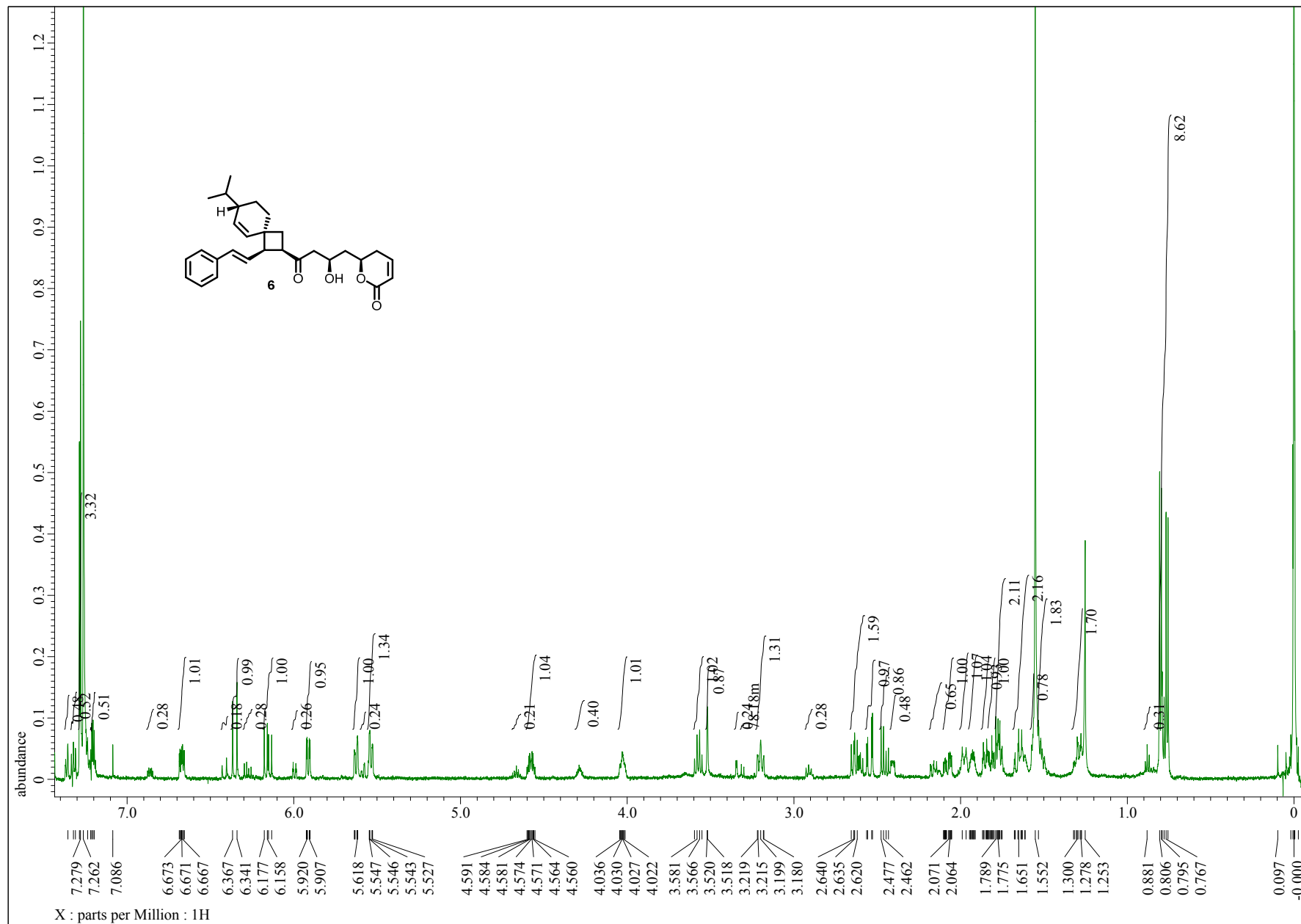


Figure S32. ^{13}C NMR spectrum of **6** (150MHz, in CDCl_3)

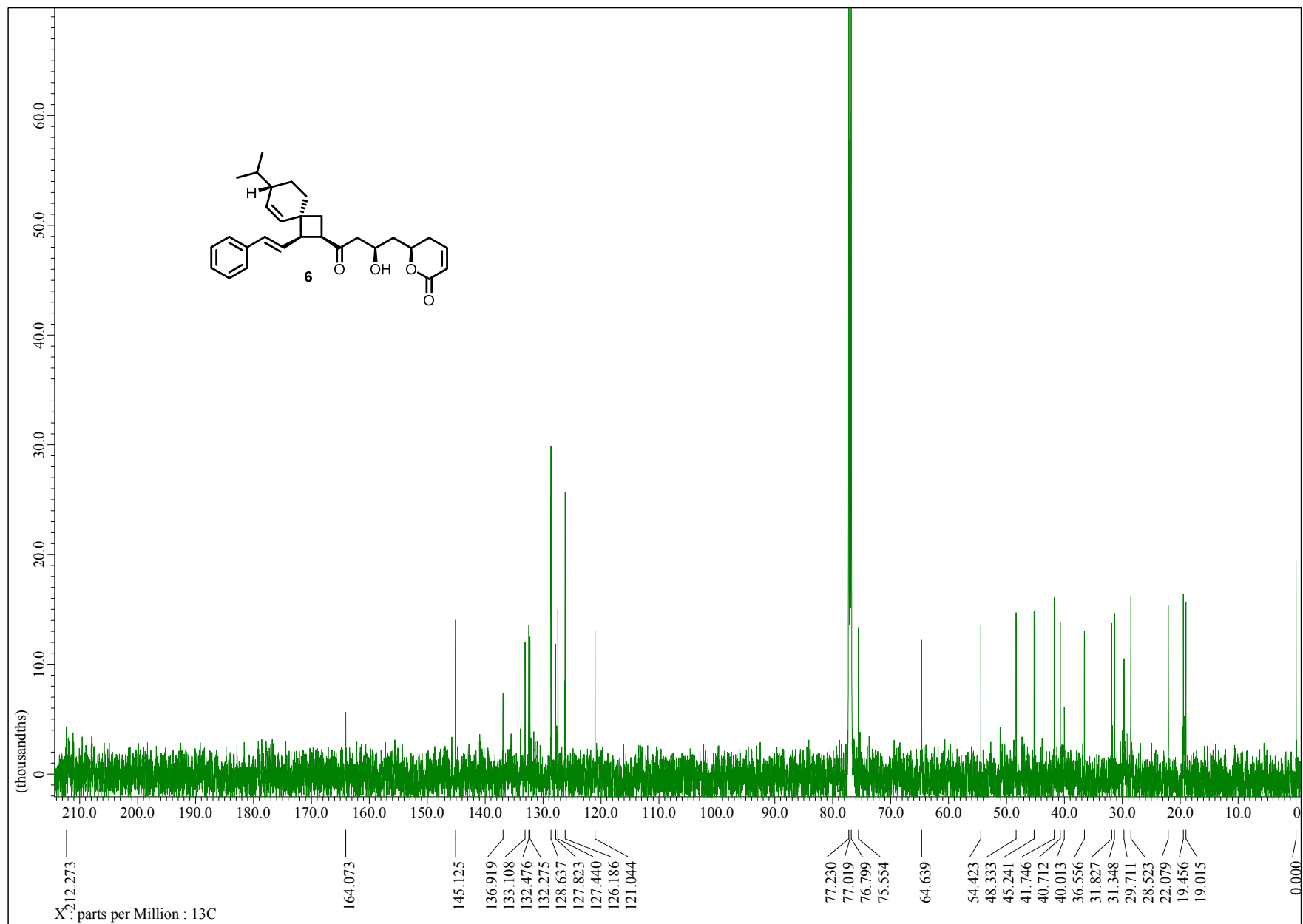


Figure S33. H-HCOSY spectrum of **6** (600 MHz, in CDCl₃)

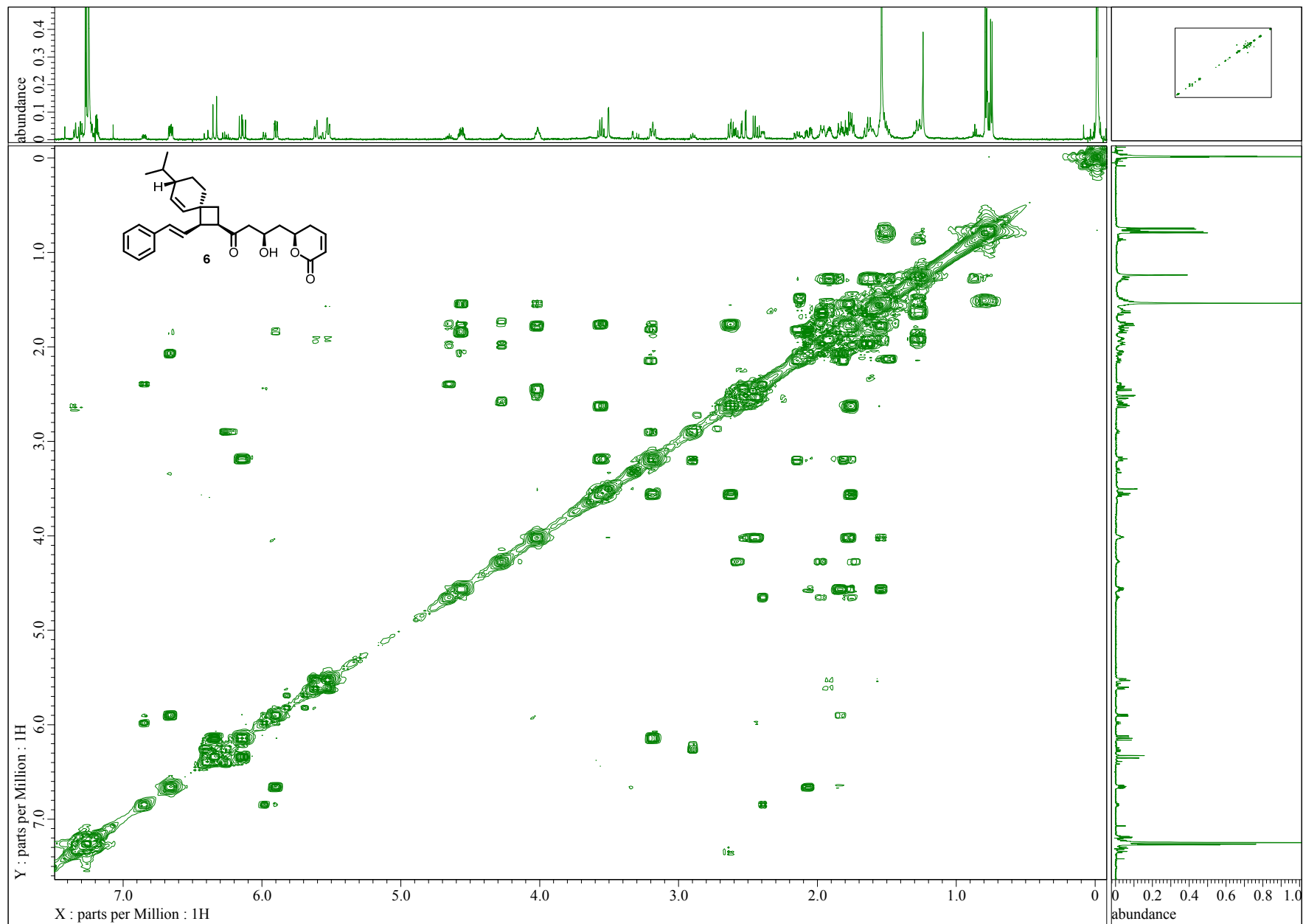


Figure S34. HMQC spectrum of **6** (600MHz, in CDCl₃)

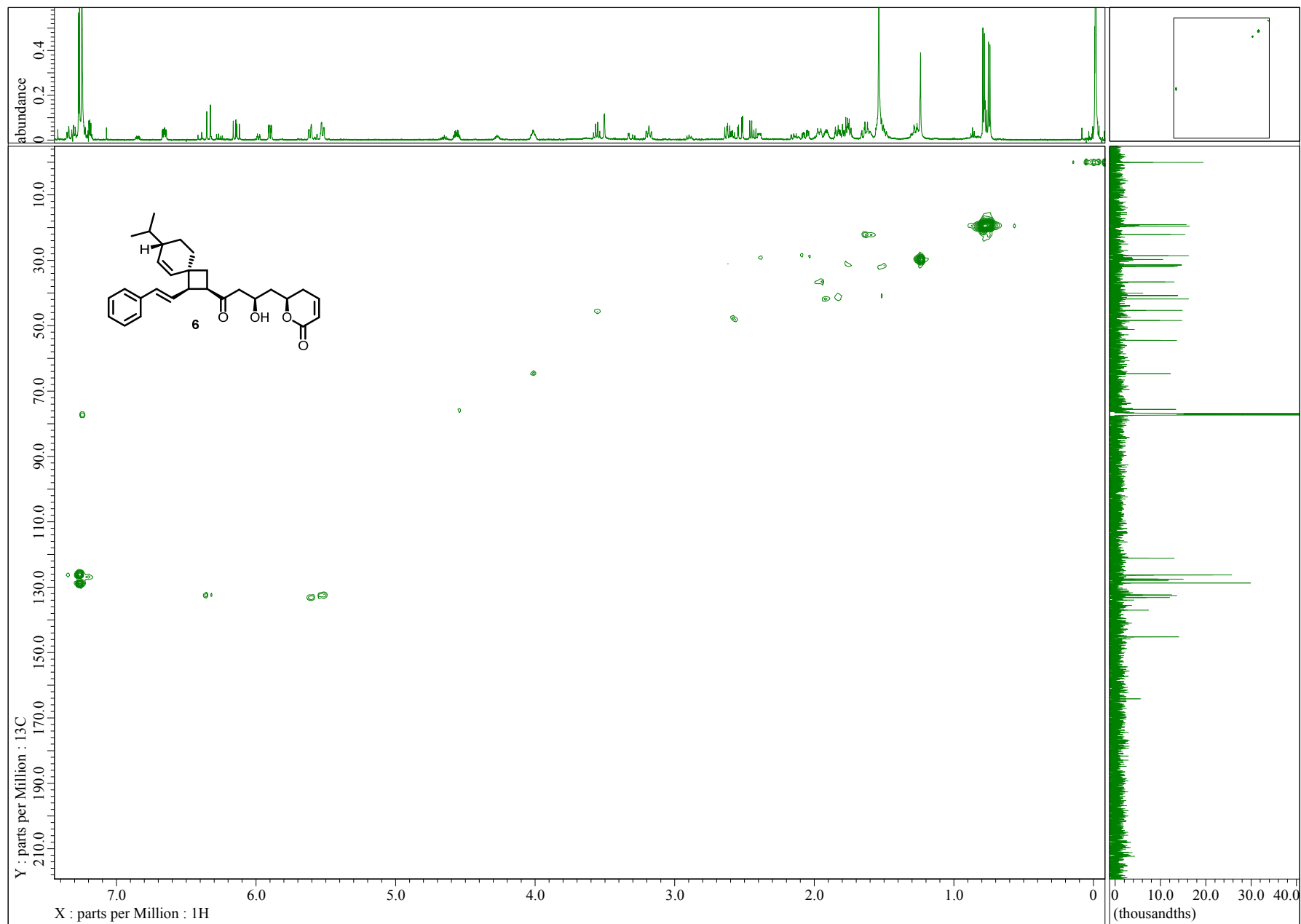


Figure S35. HMBC spectrum of **6** (600MHz, in CDCl₃)

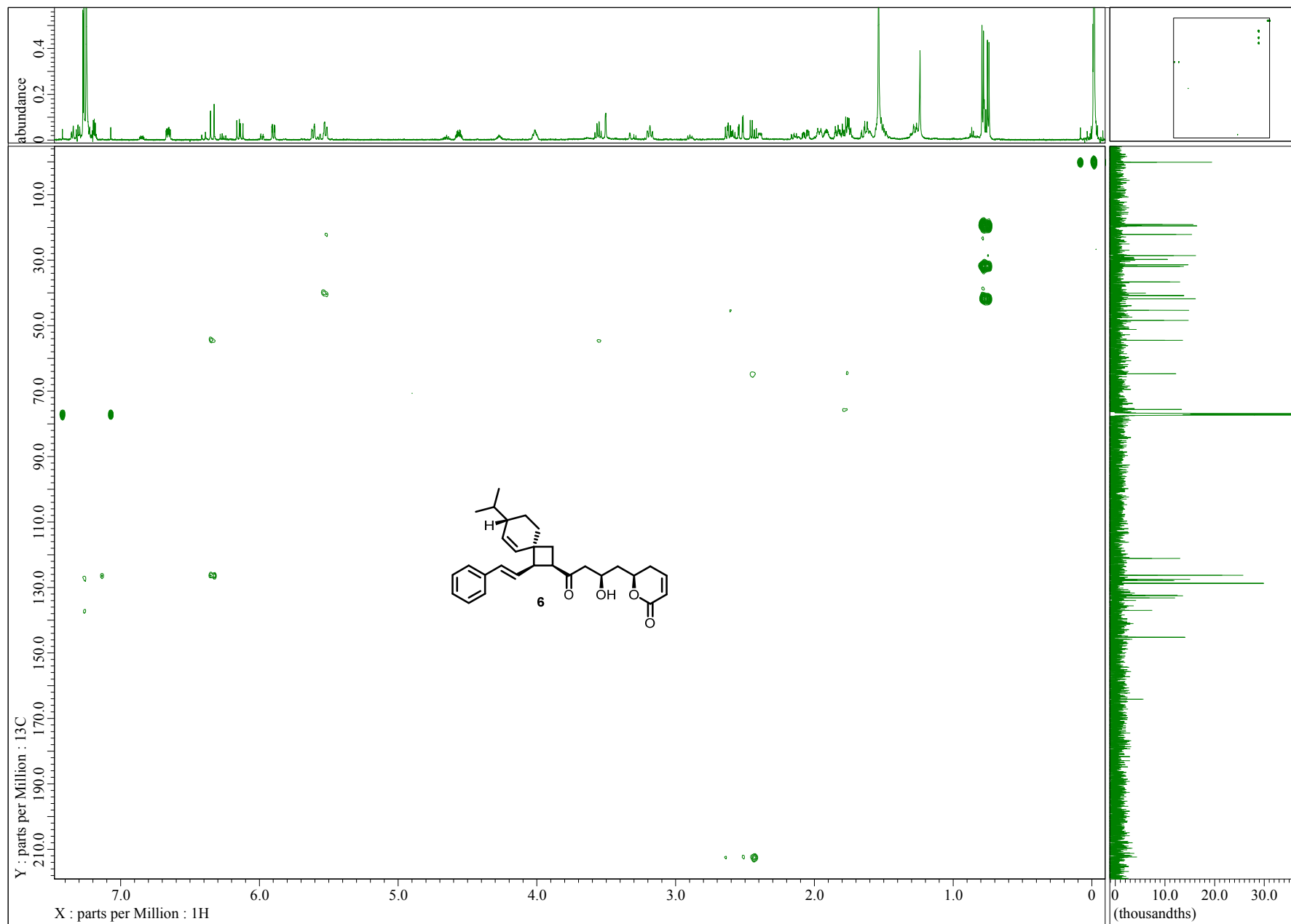


Figure S36. NOESY spectrum of **6** (400 MHz, in CDCl₃)

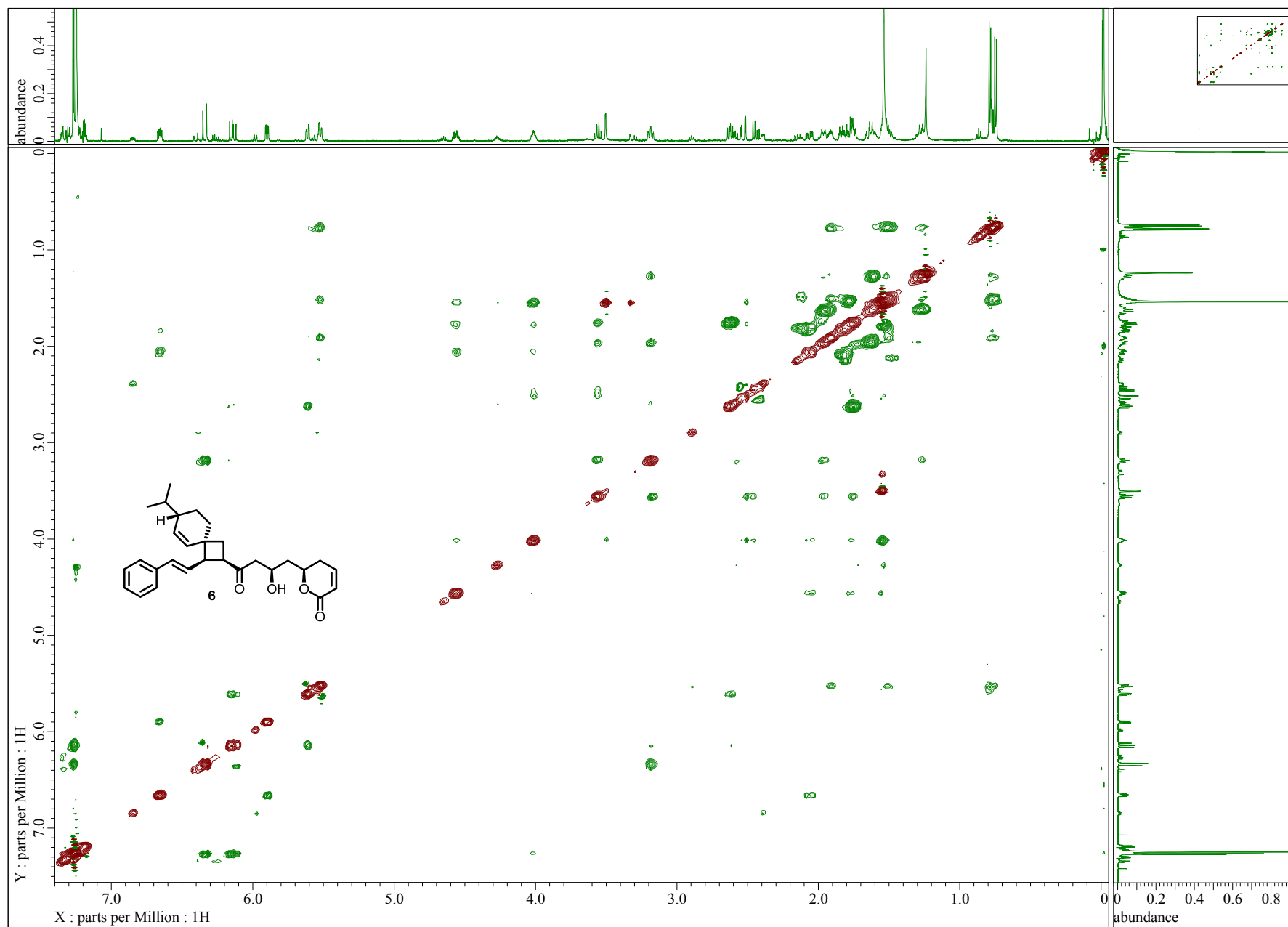


Figure S37. ¹H NMR spectrum of 7 (600 MHz, in CDCl₃)

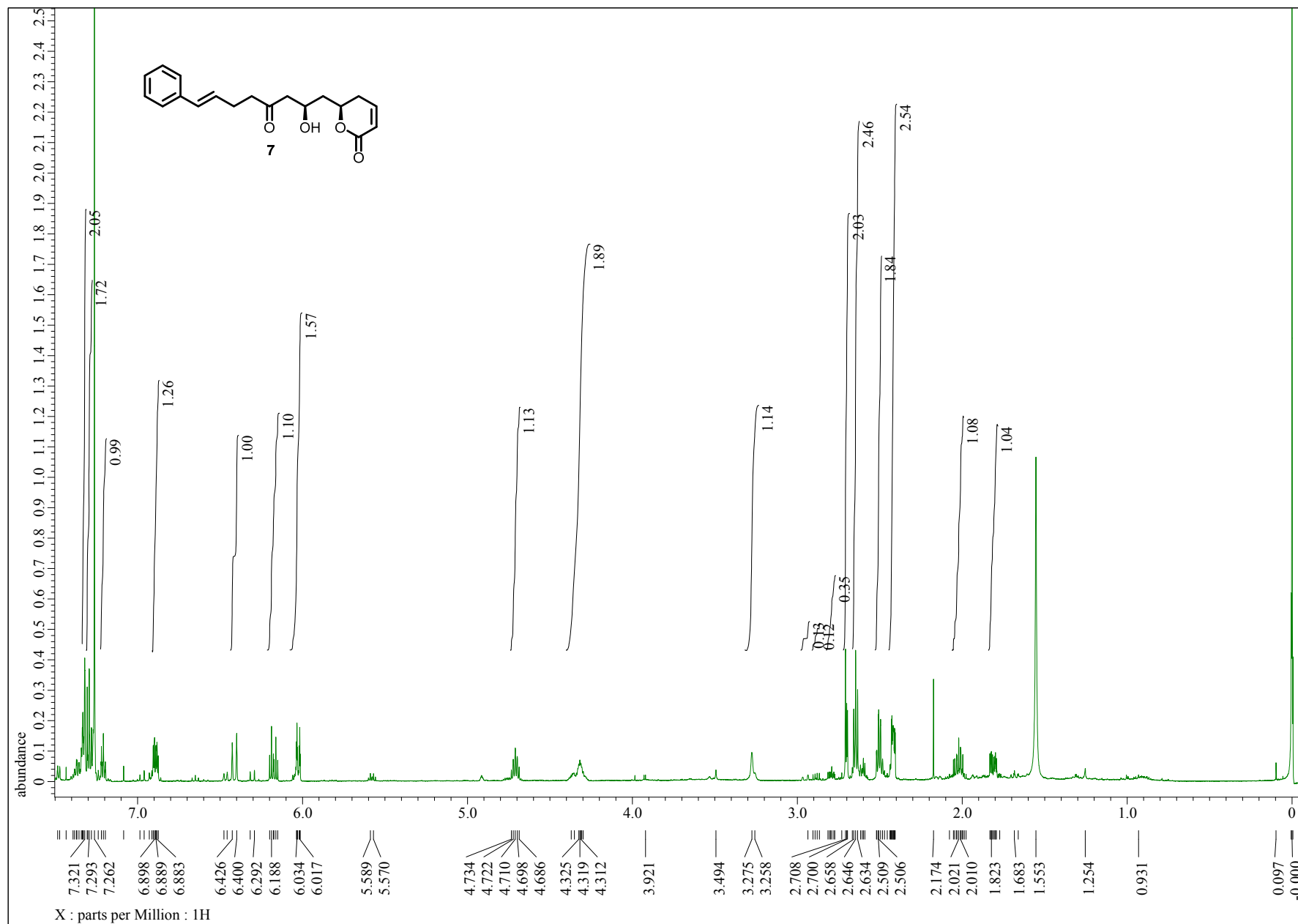


Figure S38. ^{13}C NMR spectrum of **7** (150MHz, in CDCl_3)

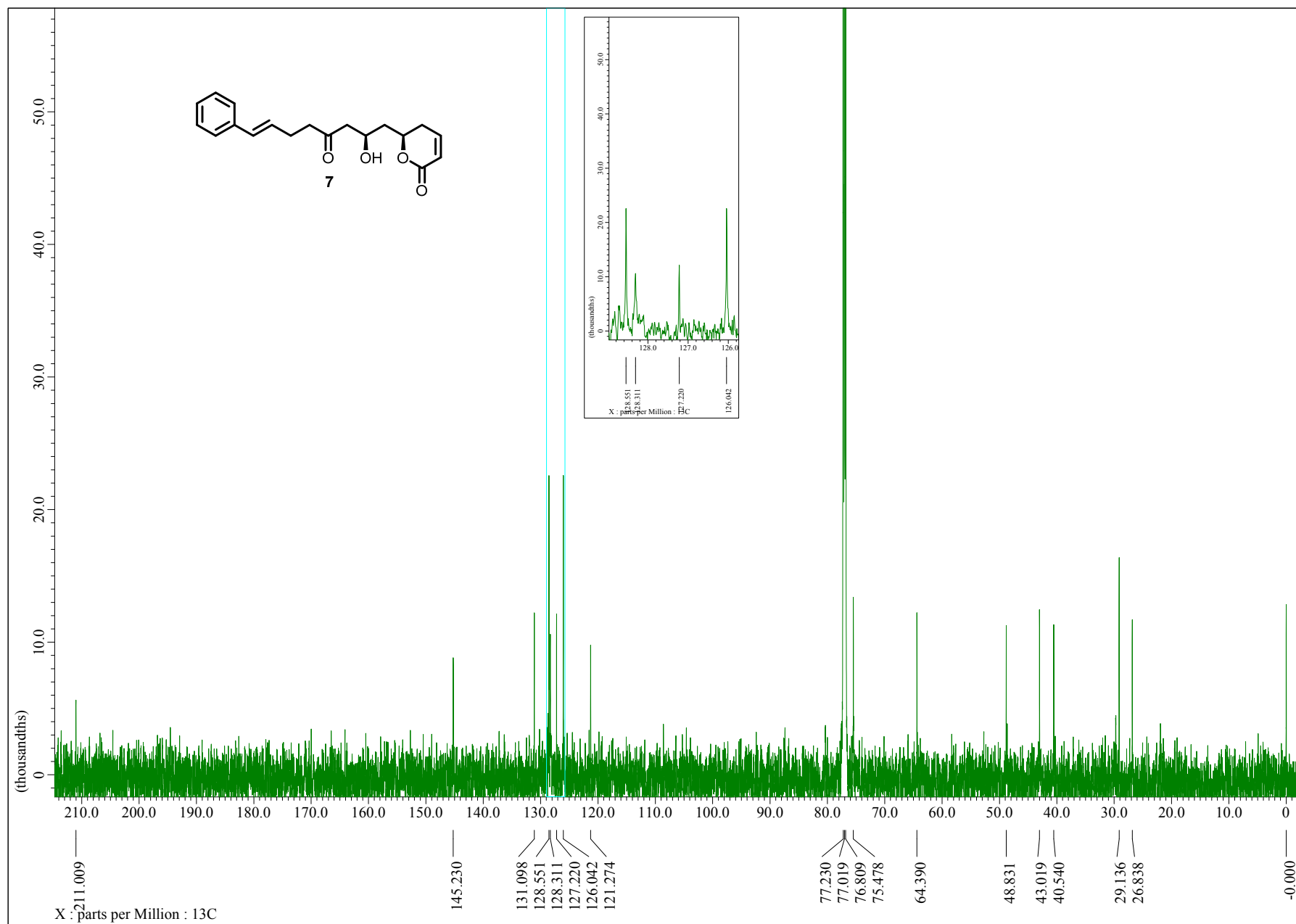


Figure S39. H-HCOSY spectrum of **7** (600 MHz, in CDCl₃)

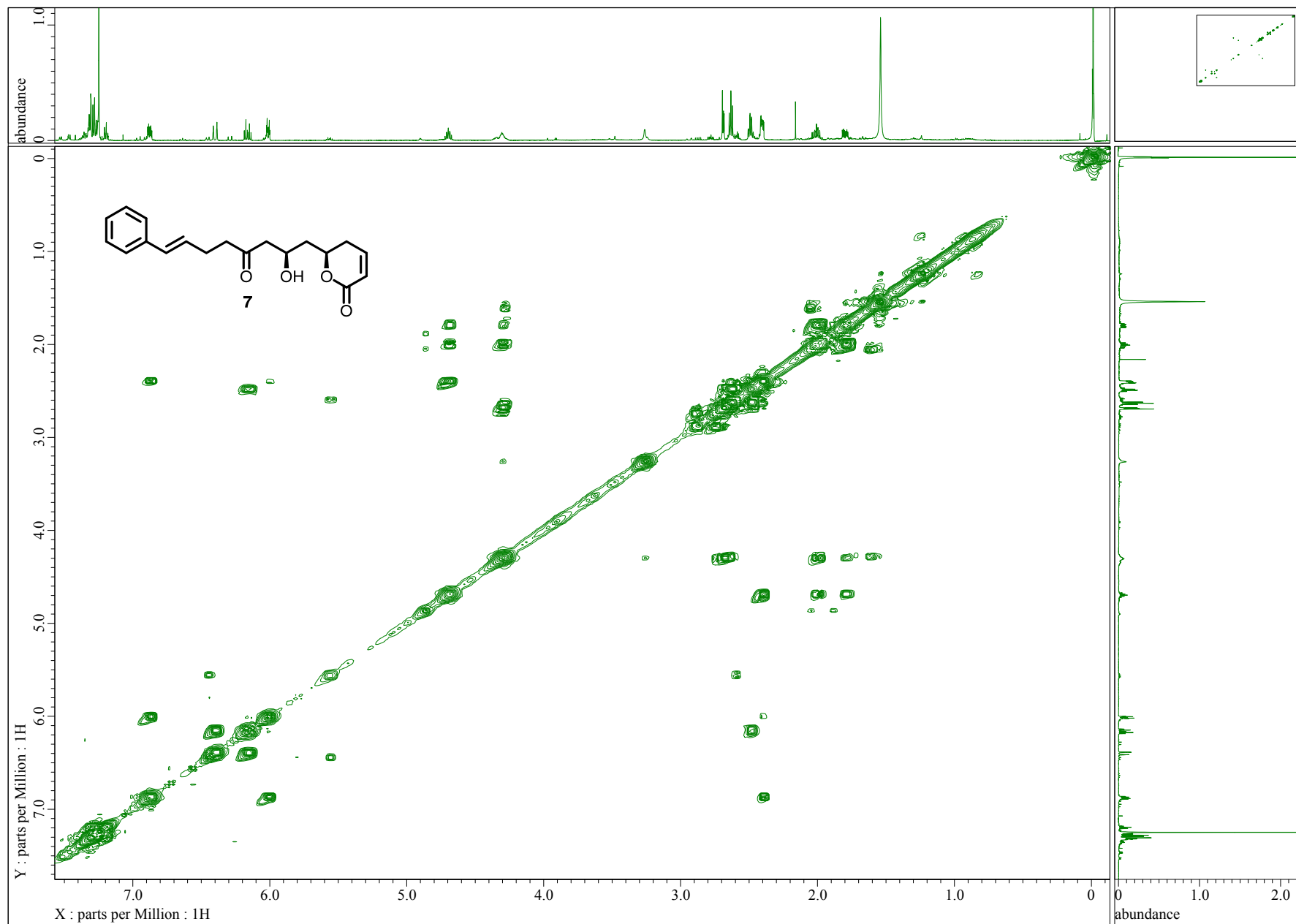


Figure S40. HMQC spectrum of **7** (600MHz, in CDCl₃)

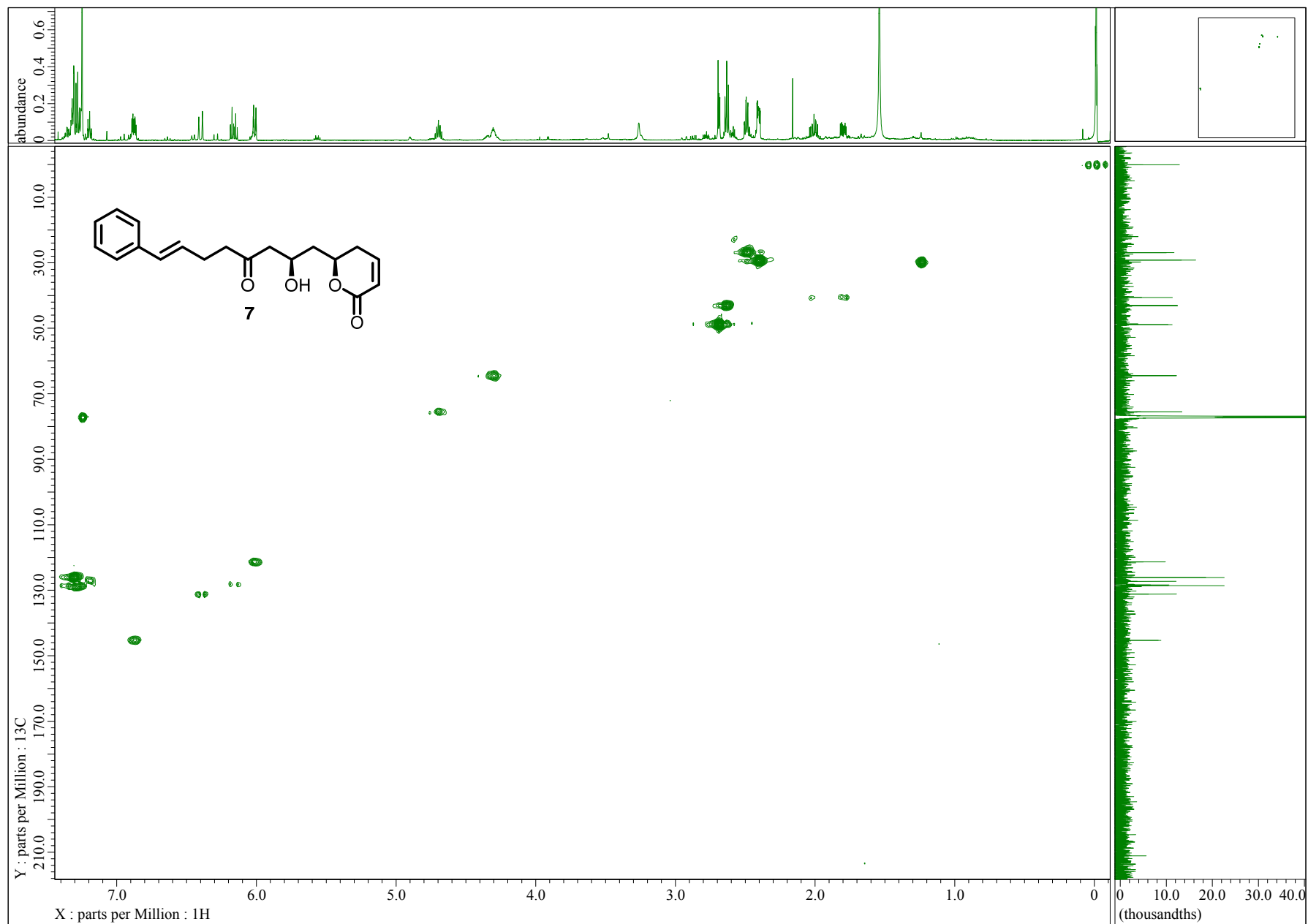


Figure S41. HMBC spectrum of **7** (600MHz, in CDCl₃)

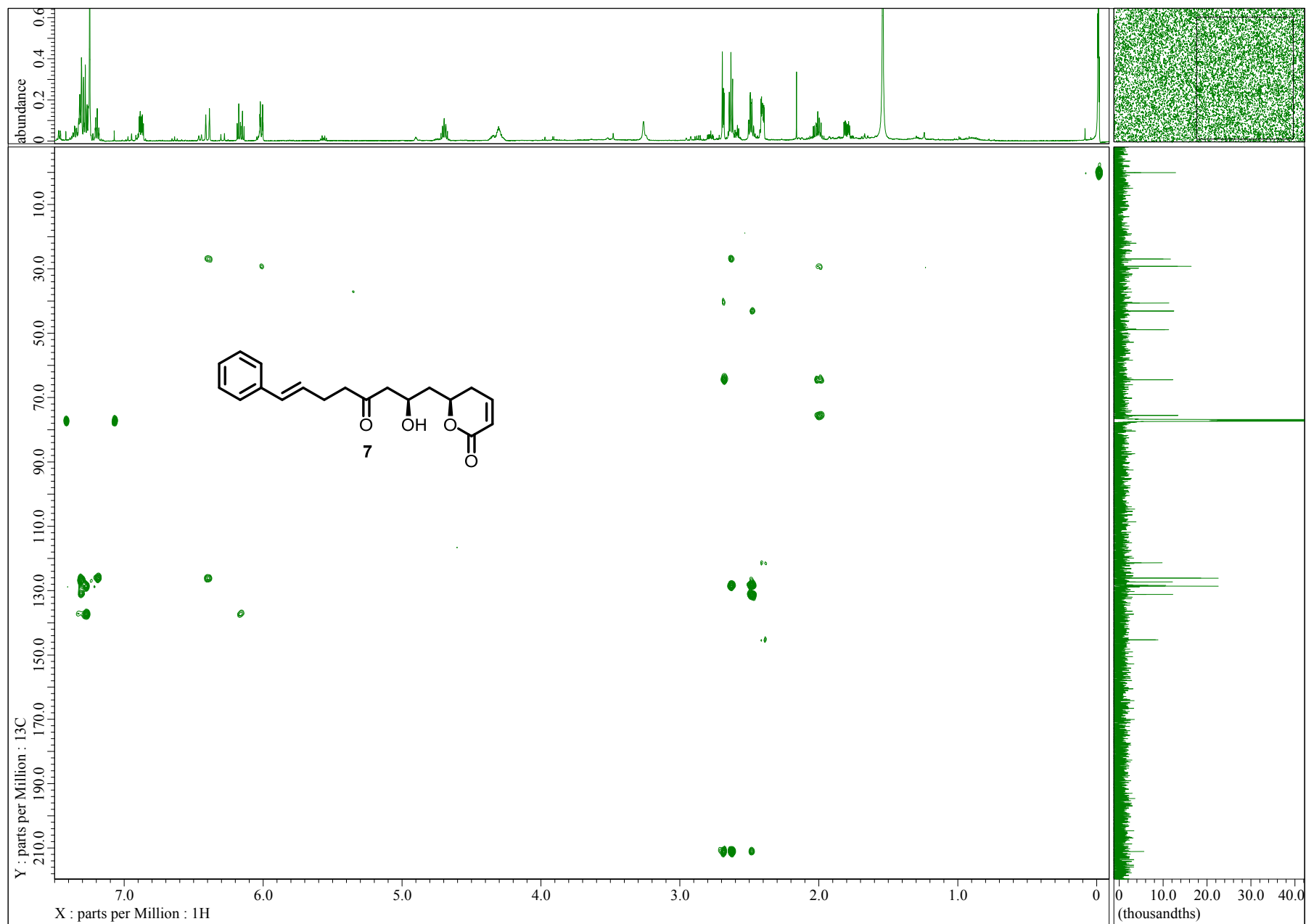


Figure S42. ¹H NMR spectrum of **8** (600 MHz, in CDCl₃)

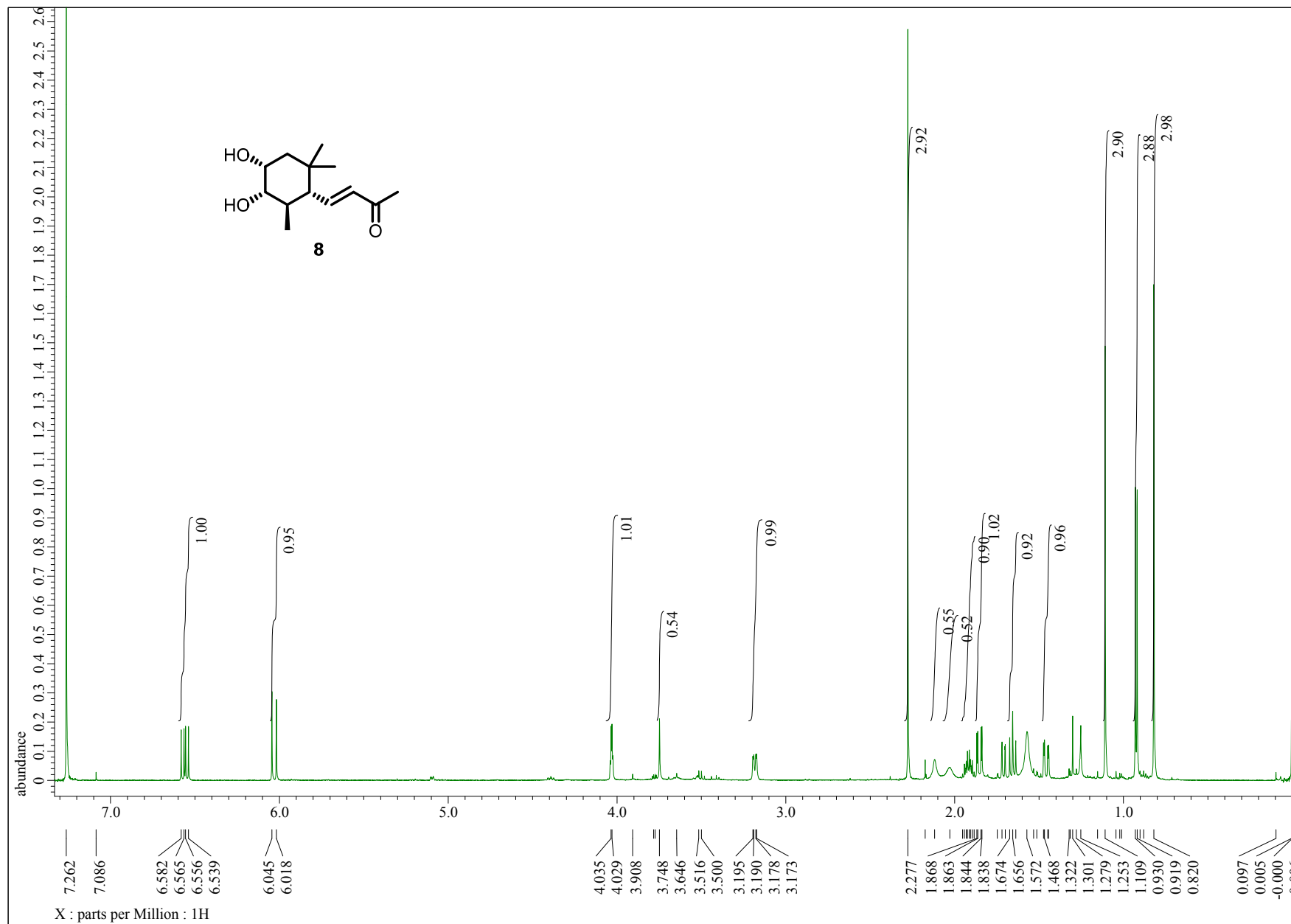


Figure S43. ^{13}C NMR spectrum of **8** (150MHz, in CDCl_3)

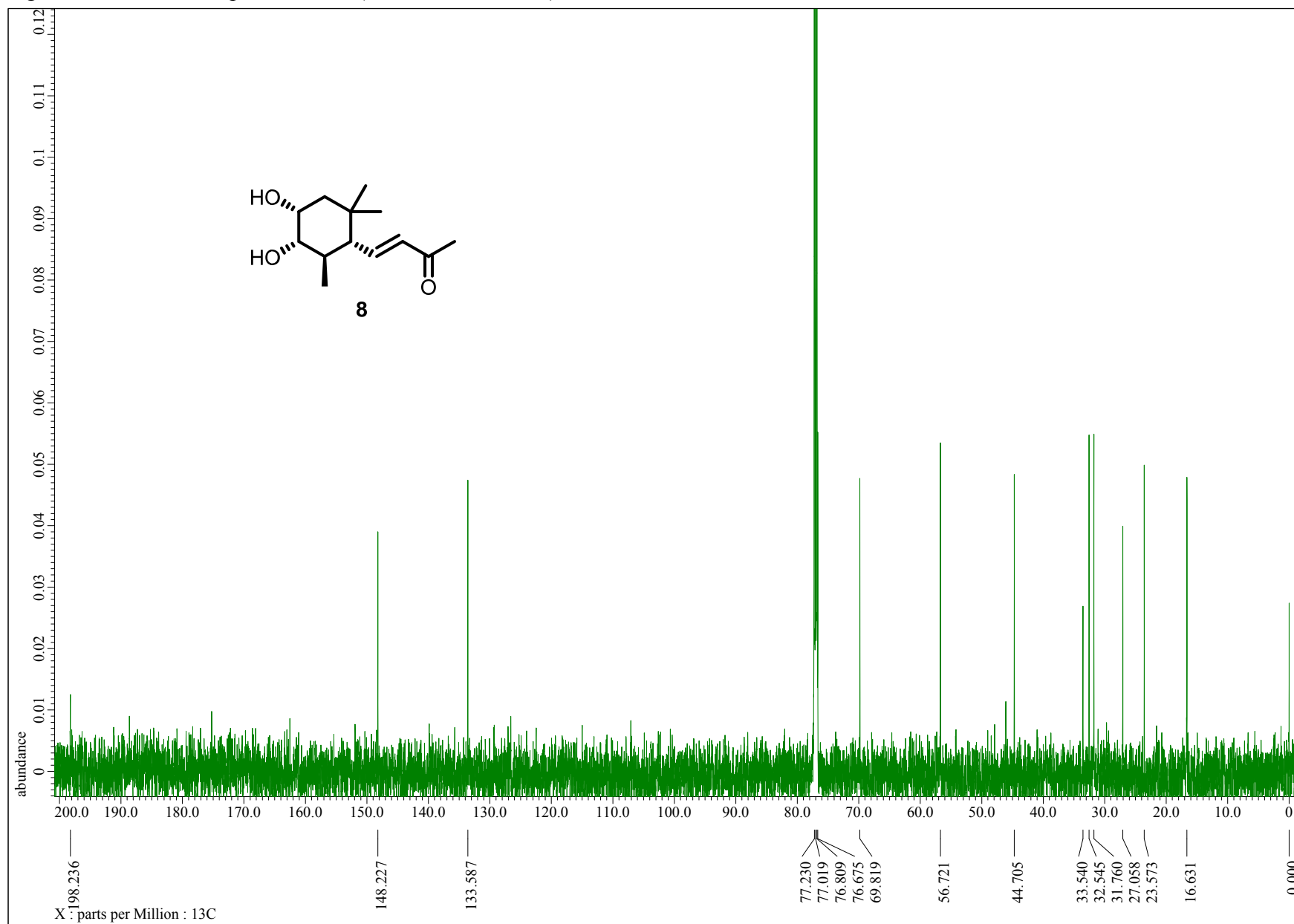


Figure S44. H-HCOSY spectrum of **8** (600 MHz, in CDCl₃)

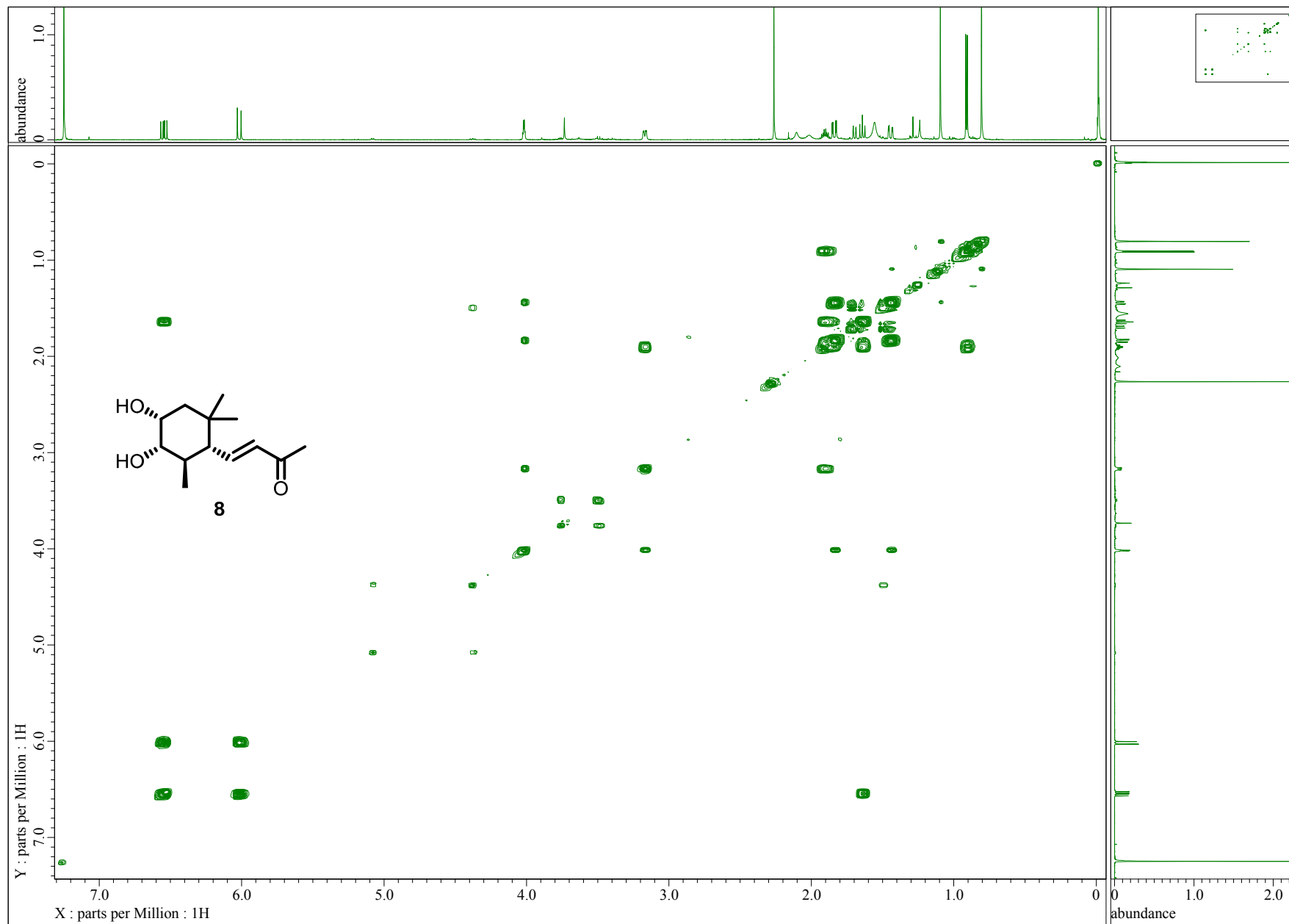


Figure S45. HMQC spectrum of **8** (600MHz, in CDCl₃)

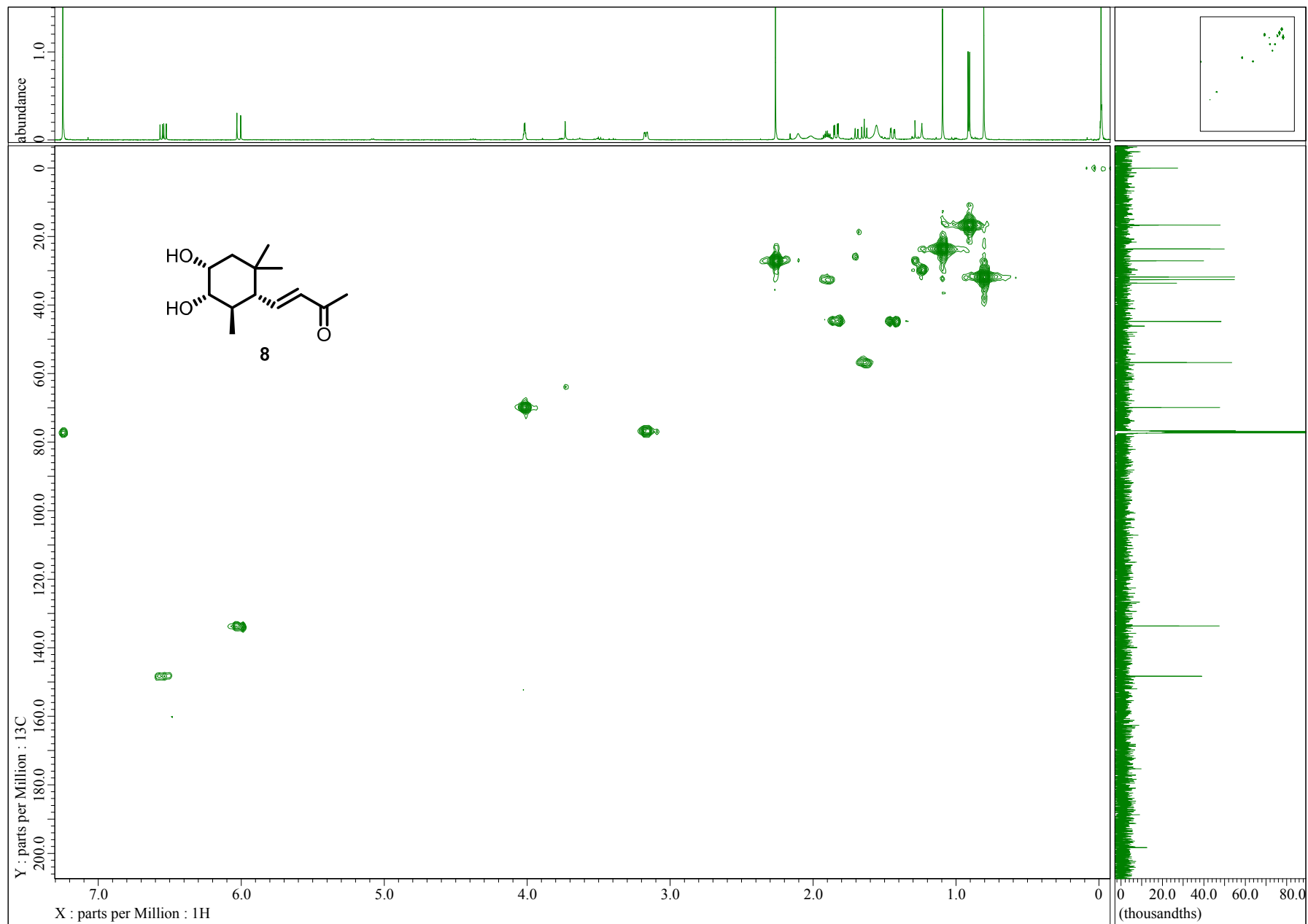


Figure S46. HMBC spectrum of **8** (600MHz, in CDCl₃)

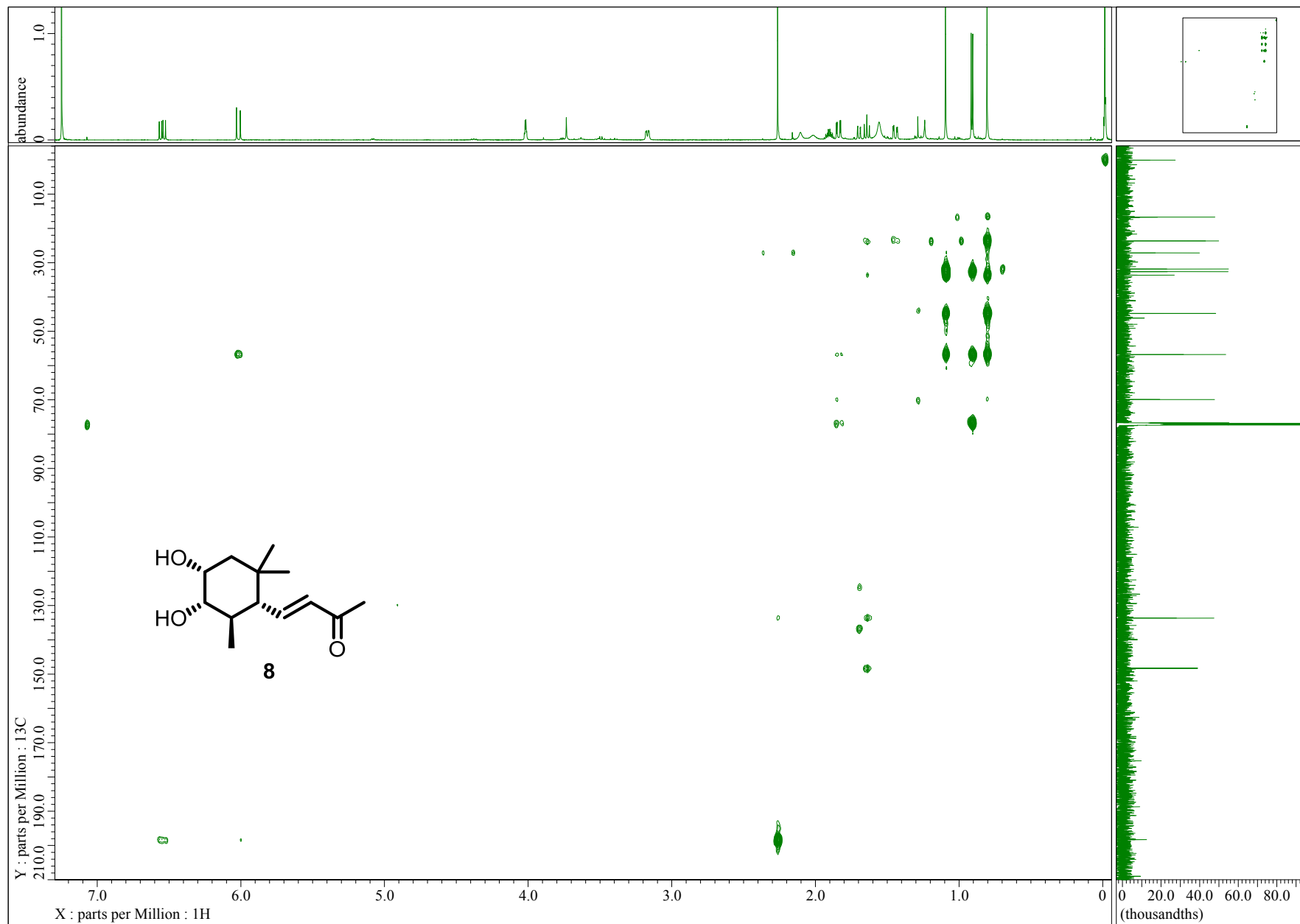


Figure S47. NOESY spectrum of **8** (400MHz, in CDCl₃)

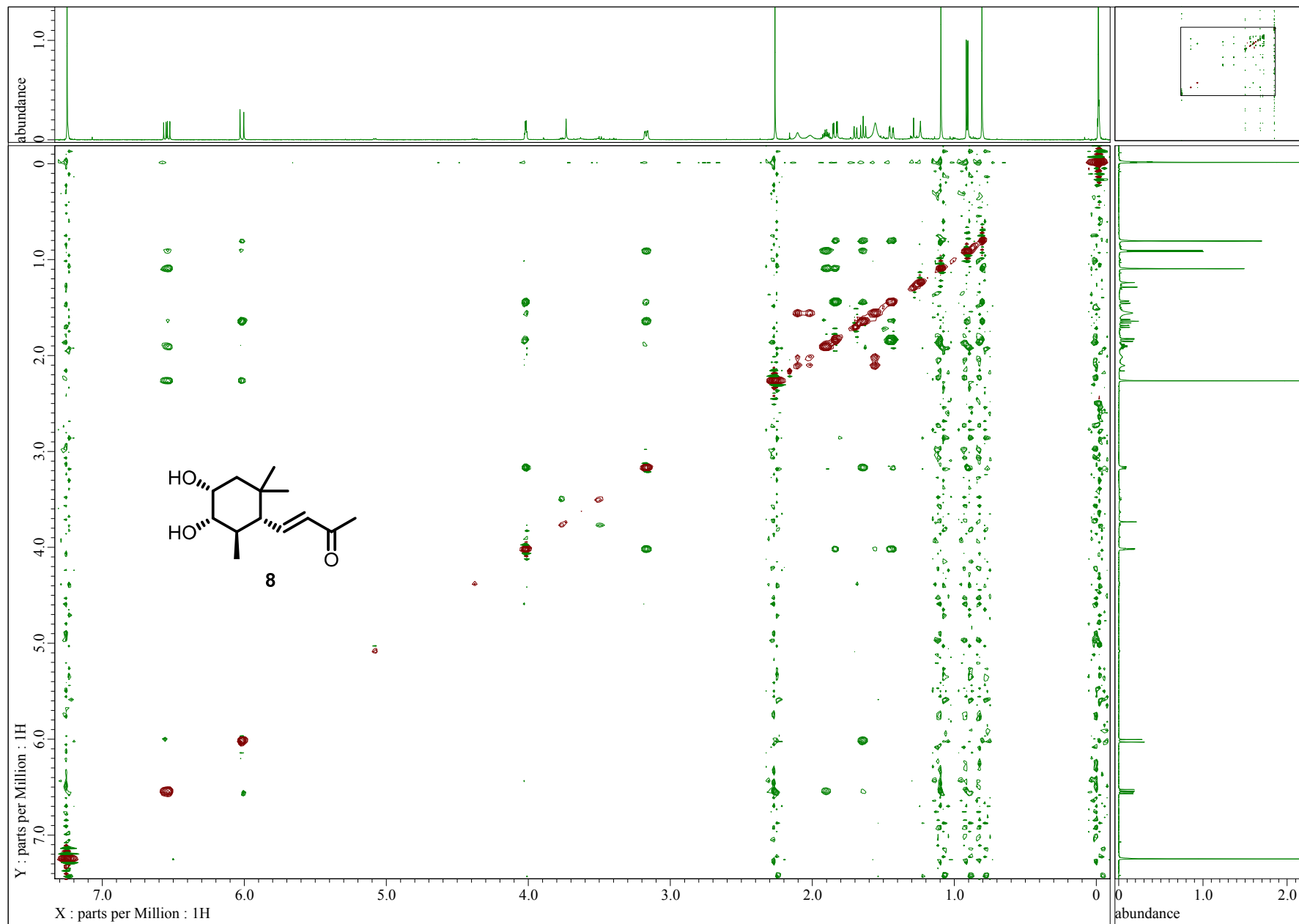


Figure S48. ¹H NMR spectrum of **15** (600 MHz, in CDCl₃)

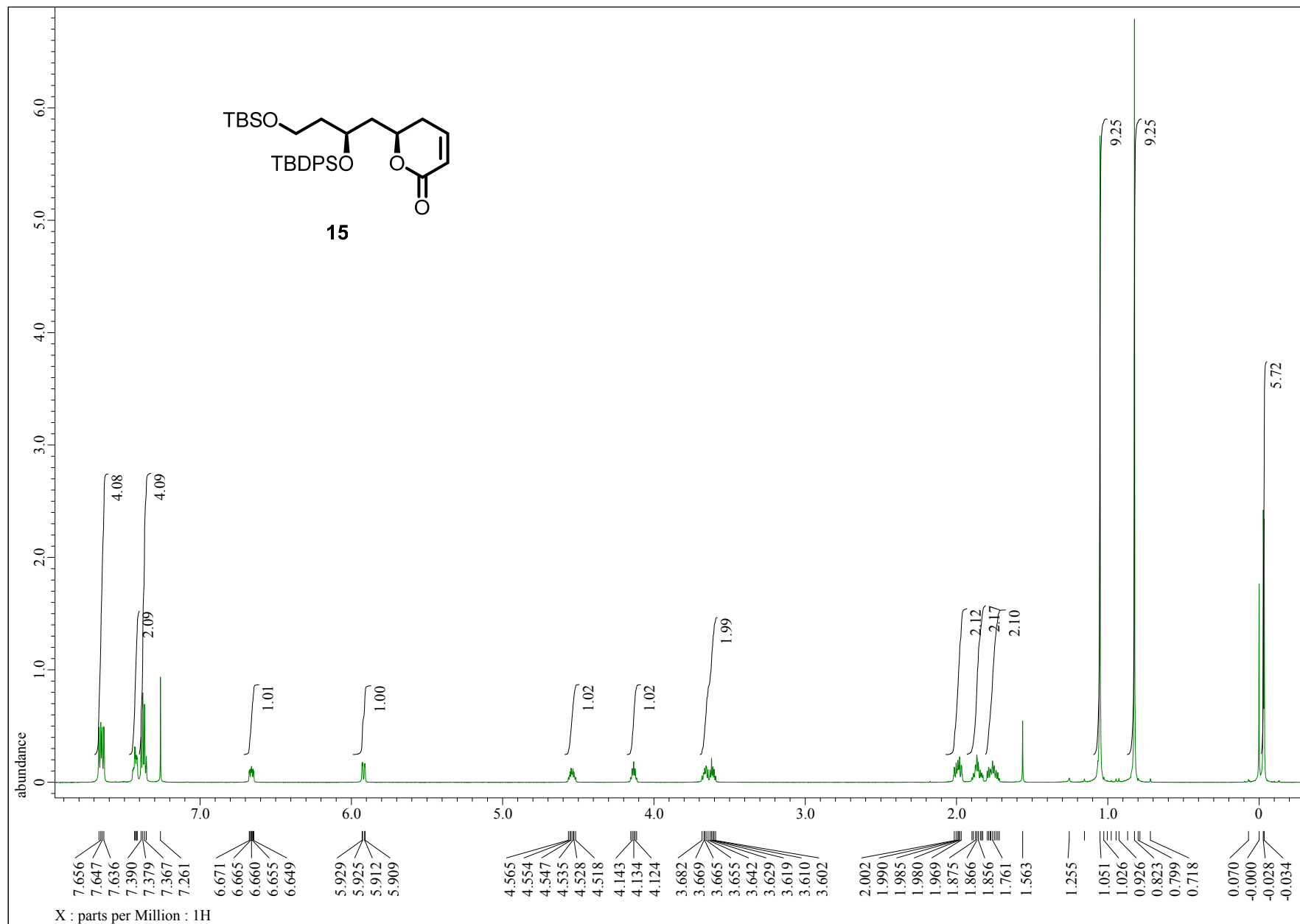


Figure S49. ^{13}C NMR spectrum of **15** (150 MHz, in CDCl_3)

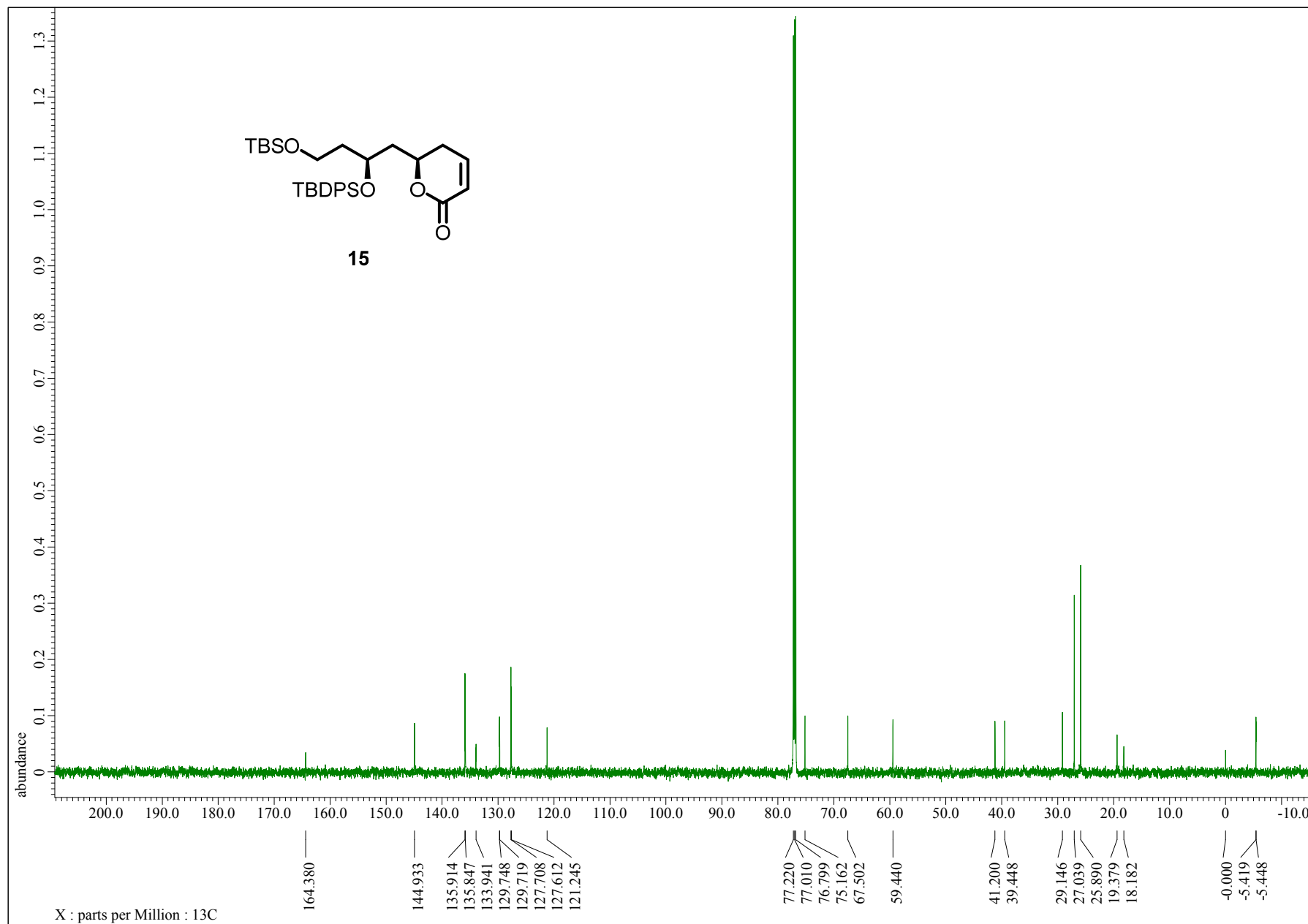


Figure S50. ^1H NMR spectrum of **16** (600 MHz, in CDCl_3)

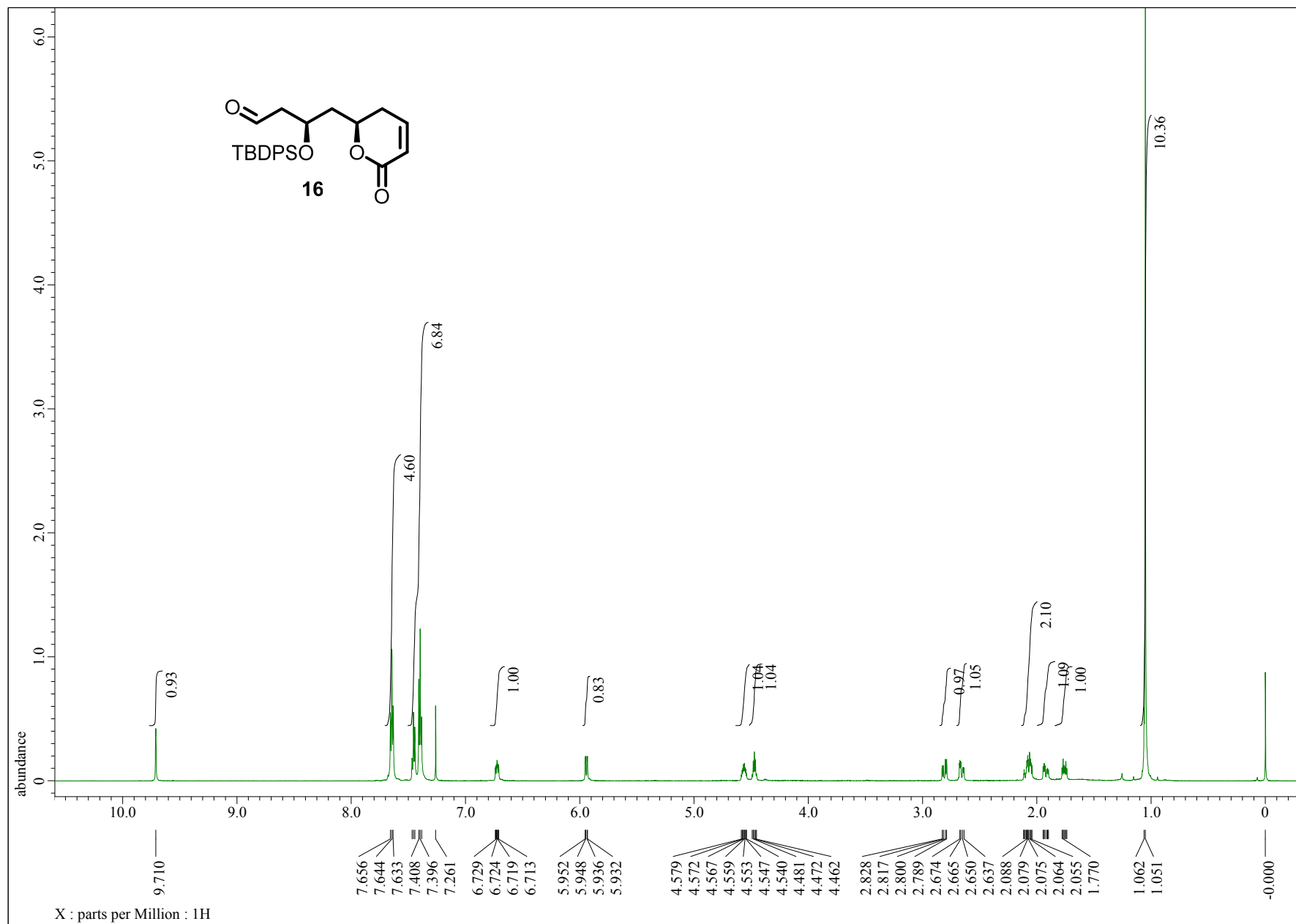


Figure S51. ^{13}C NMR spectrum of **16** (150 MHz, in CDCl_3)

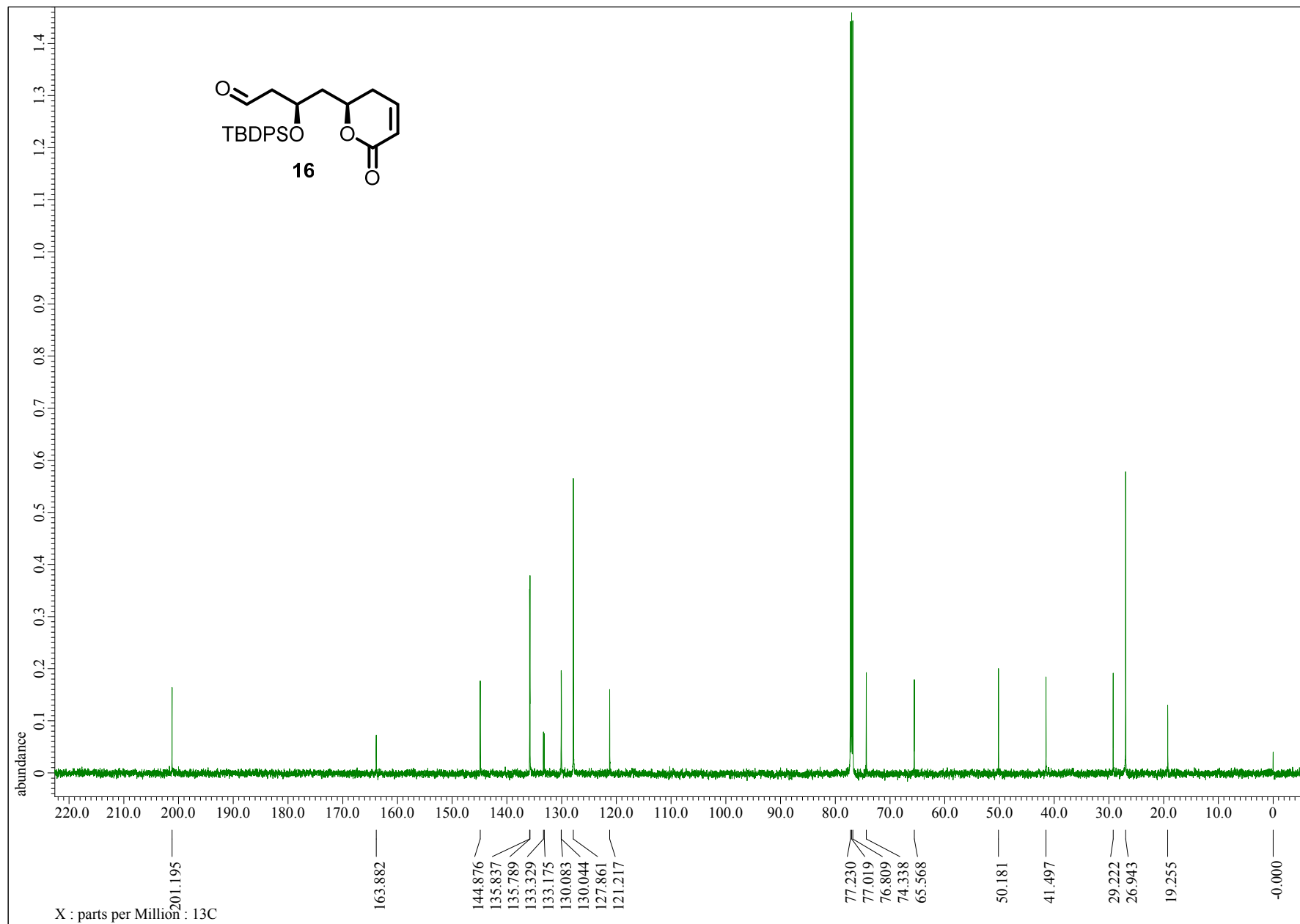


Figure S52. ^1H NMR spectrum of **17** (600 MHz, in CDCl_3)

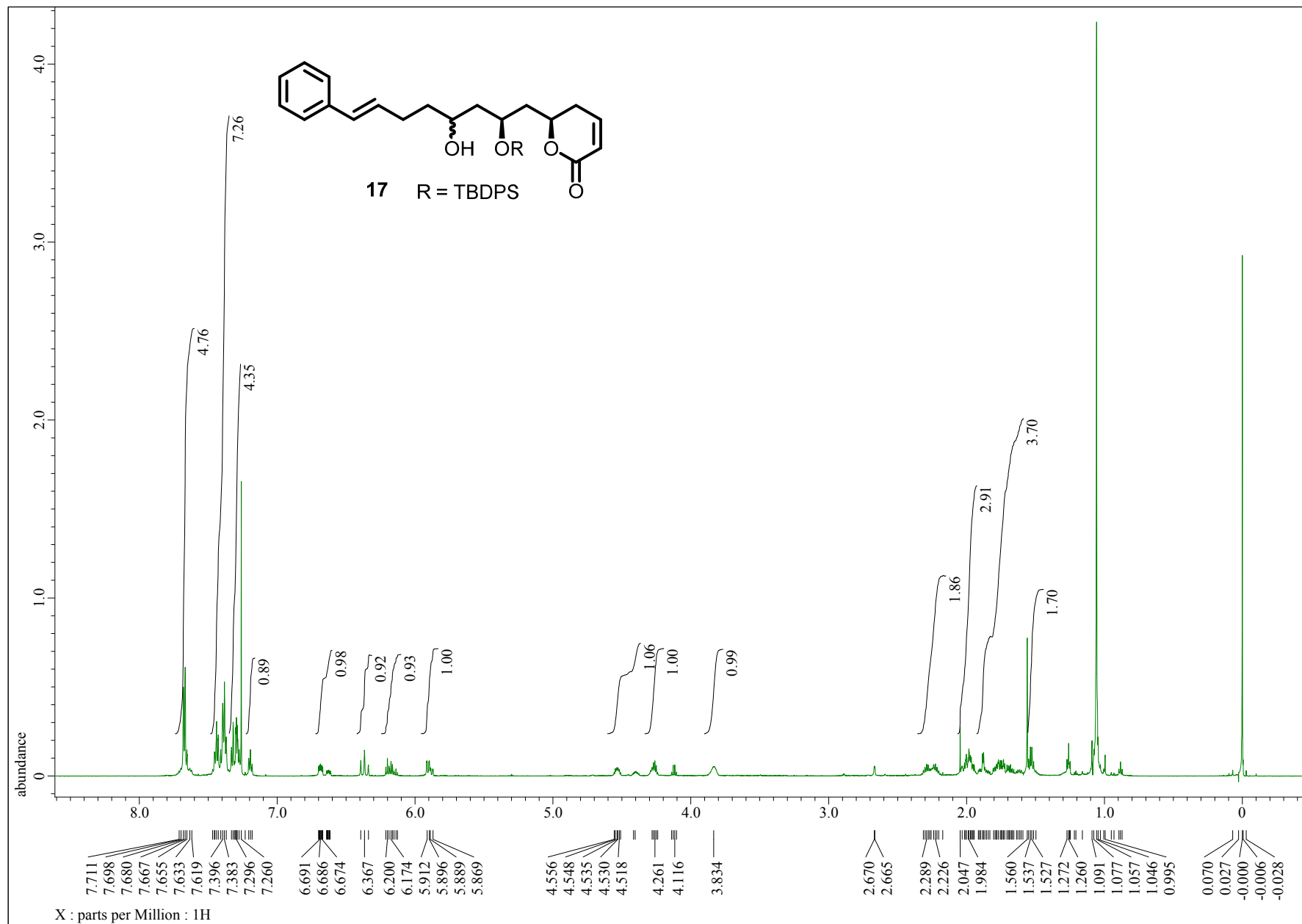


Figure S53. ^1H NMR spectrum of **18** (600 MHz, in CDCl_3)

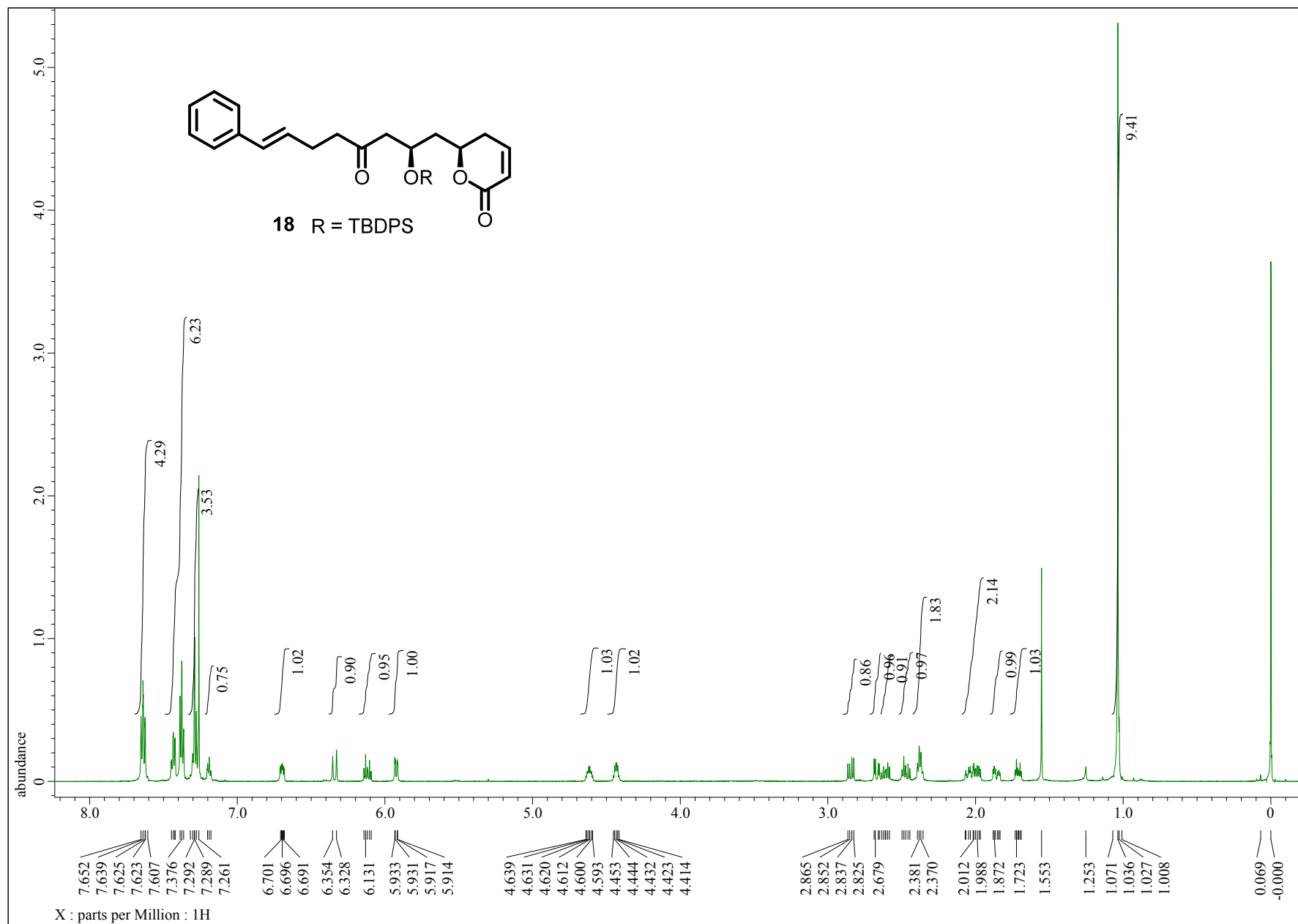


Figure S54. ^{13}C NMR spectrum of **18** (150 MHz, in CDCl_3)

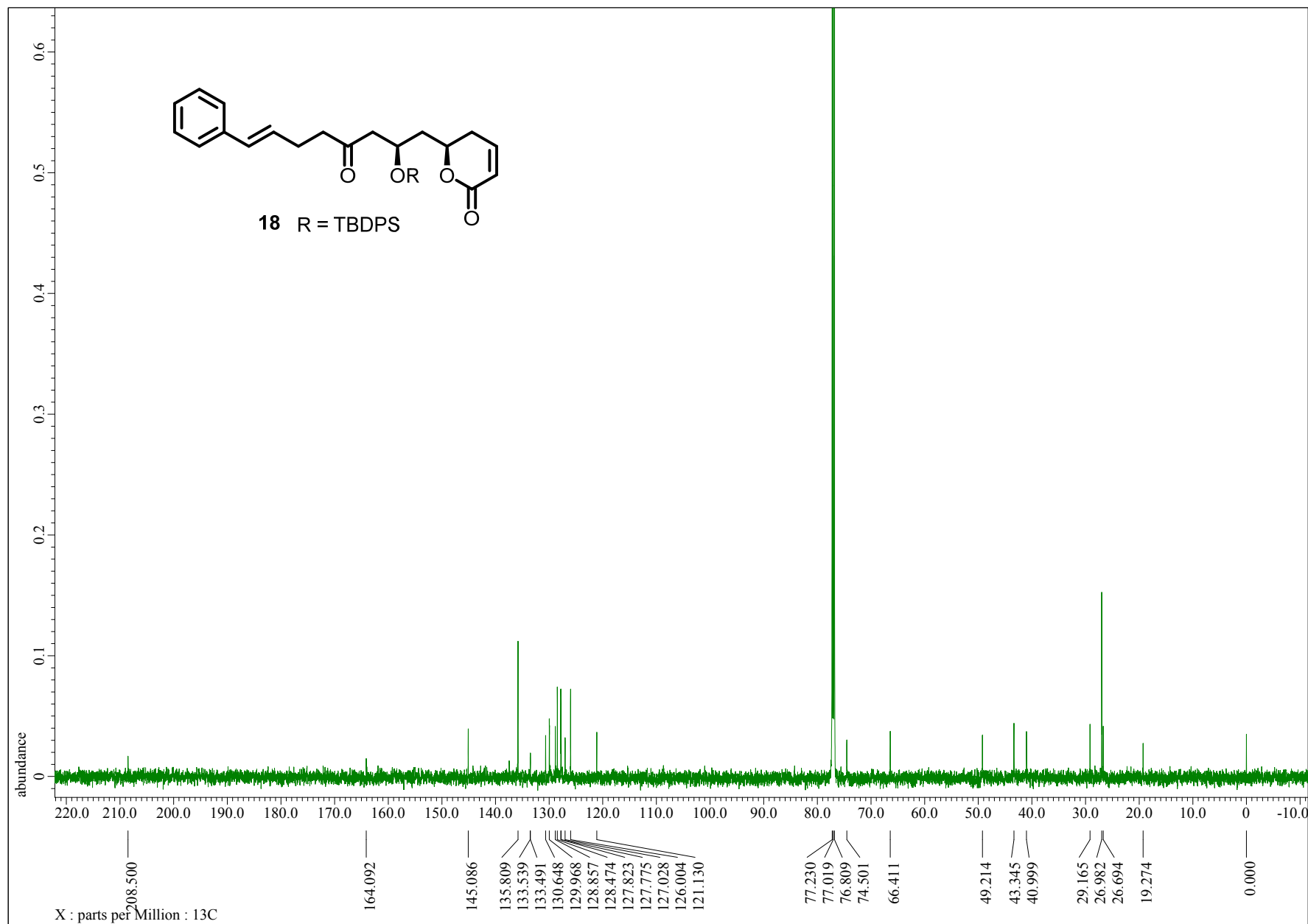


Figure S55. ¹H NMR spectrum of **19** (600 MHz, in CDCl₃)

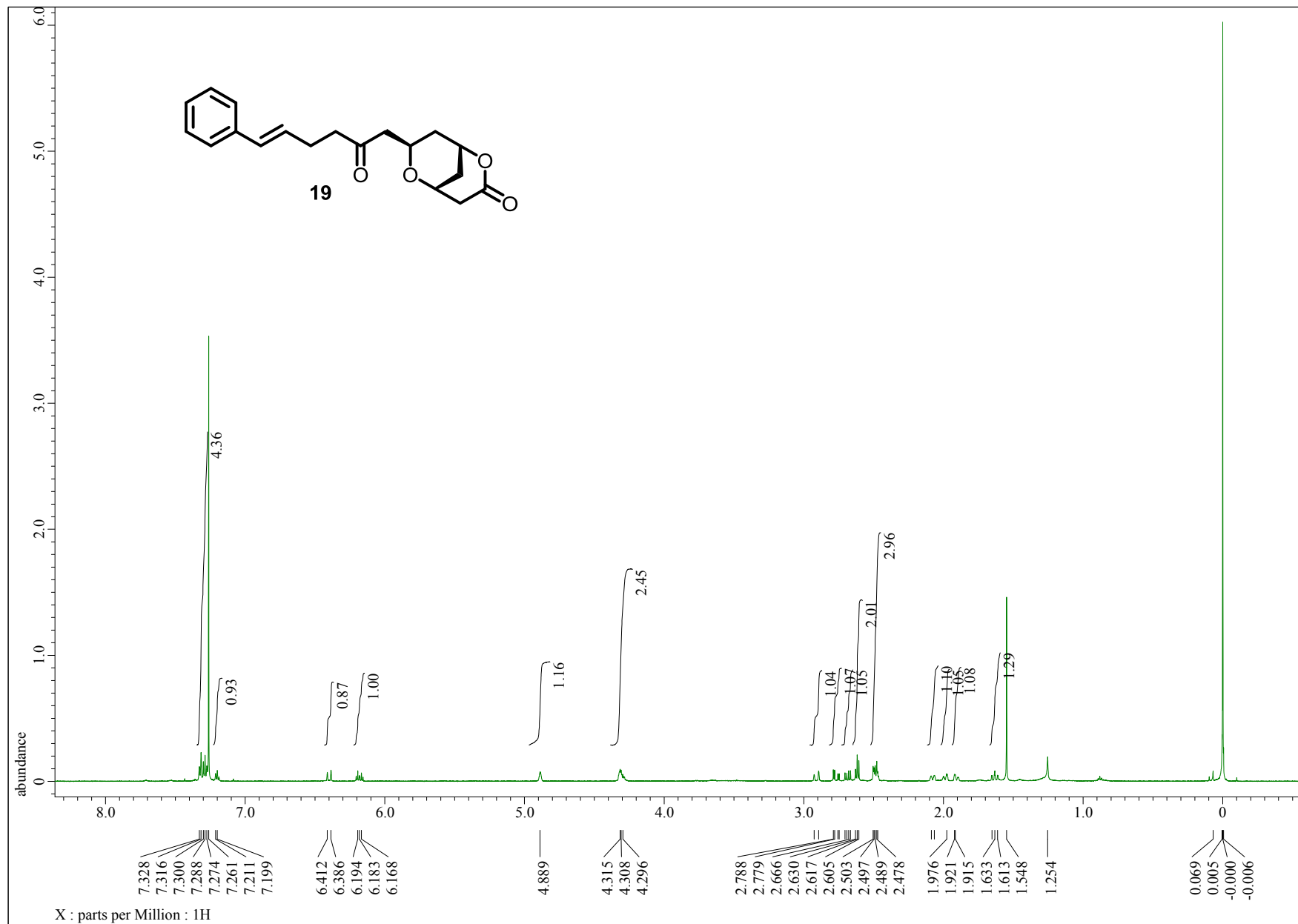


Figure S56. ^{13}C NMR spectrum of **19** (150 MHz, in CDCl_3)

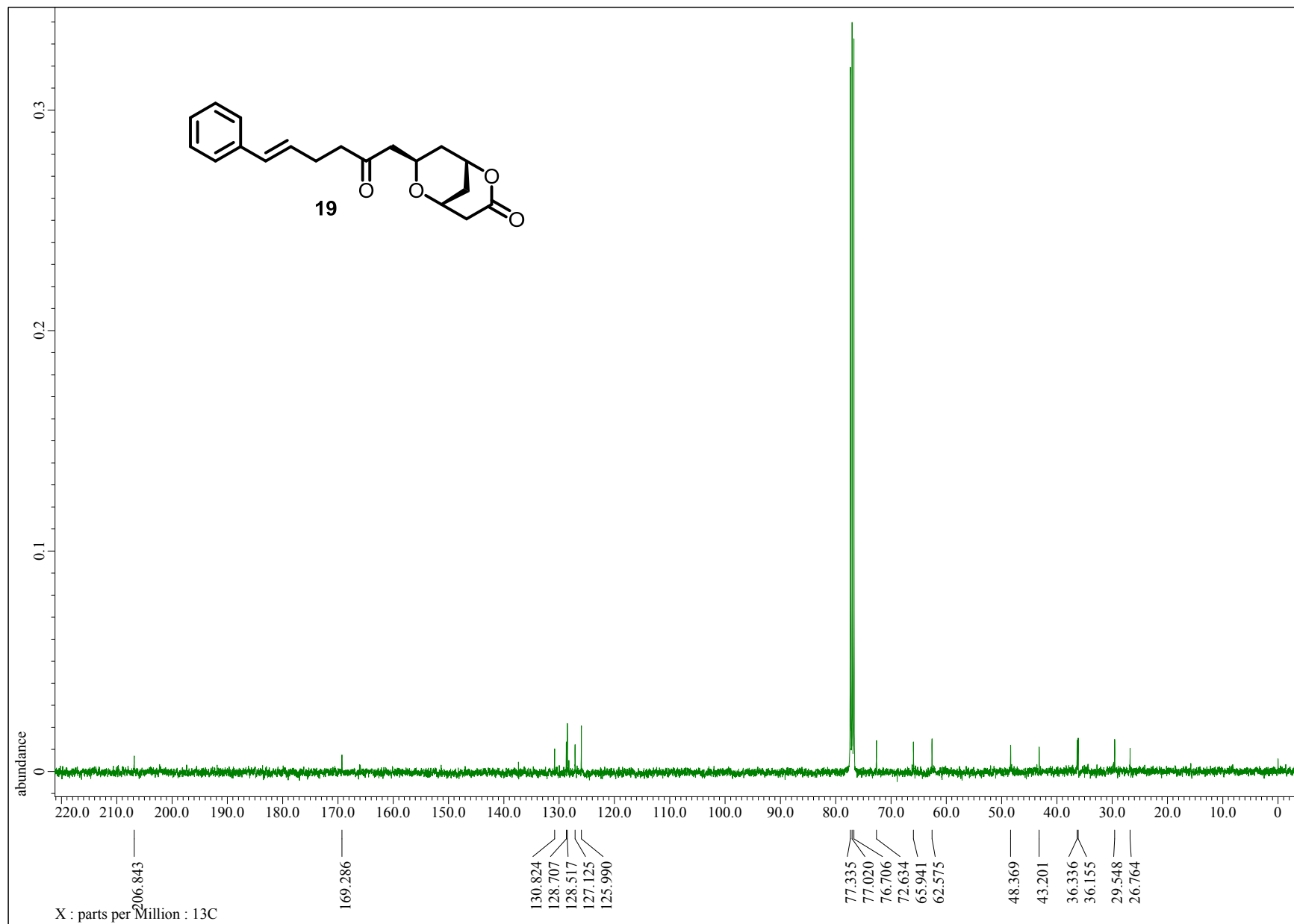


Figure S57. ¹H NMR spectrum of **14** (600 MHz, in CDCl₃)

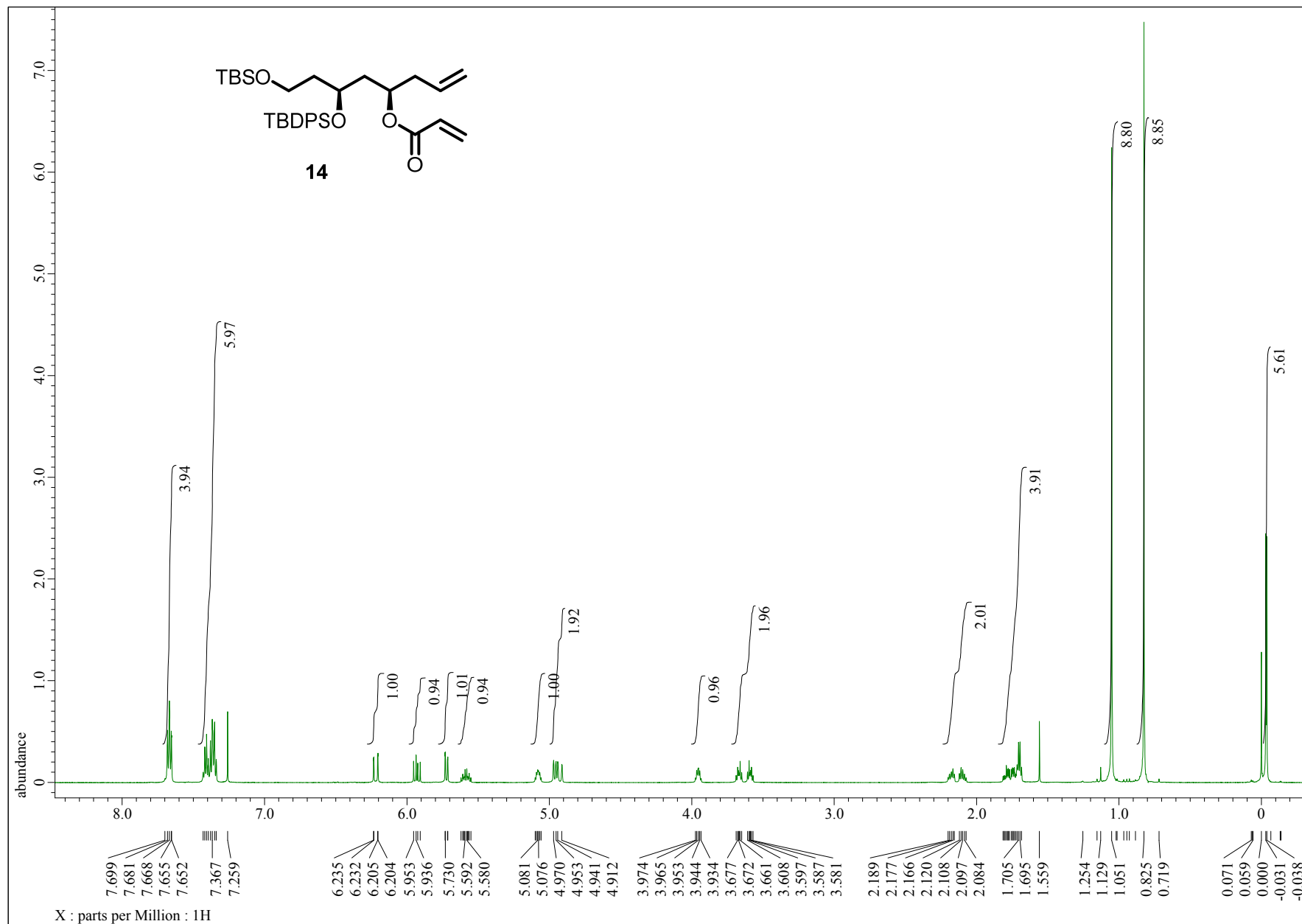


Figure S58. ^1H NMR spectrum of **22** (600 MHz, in CDCl_3)

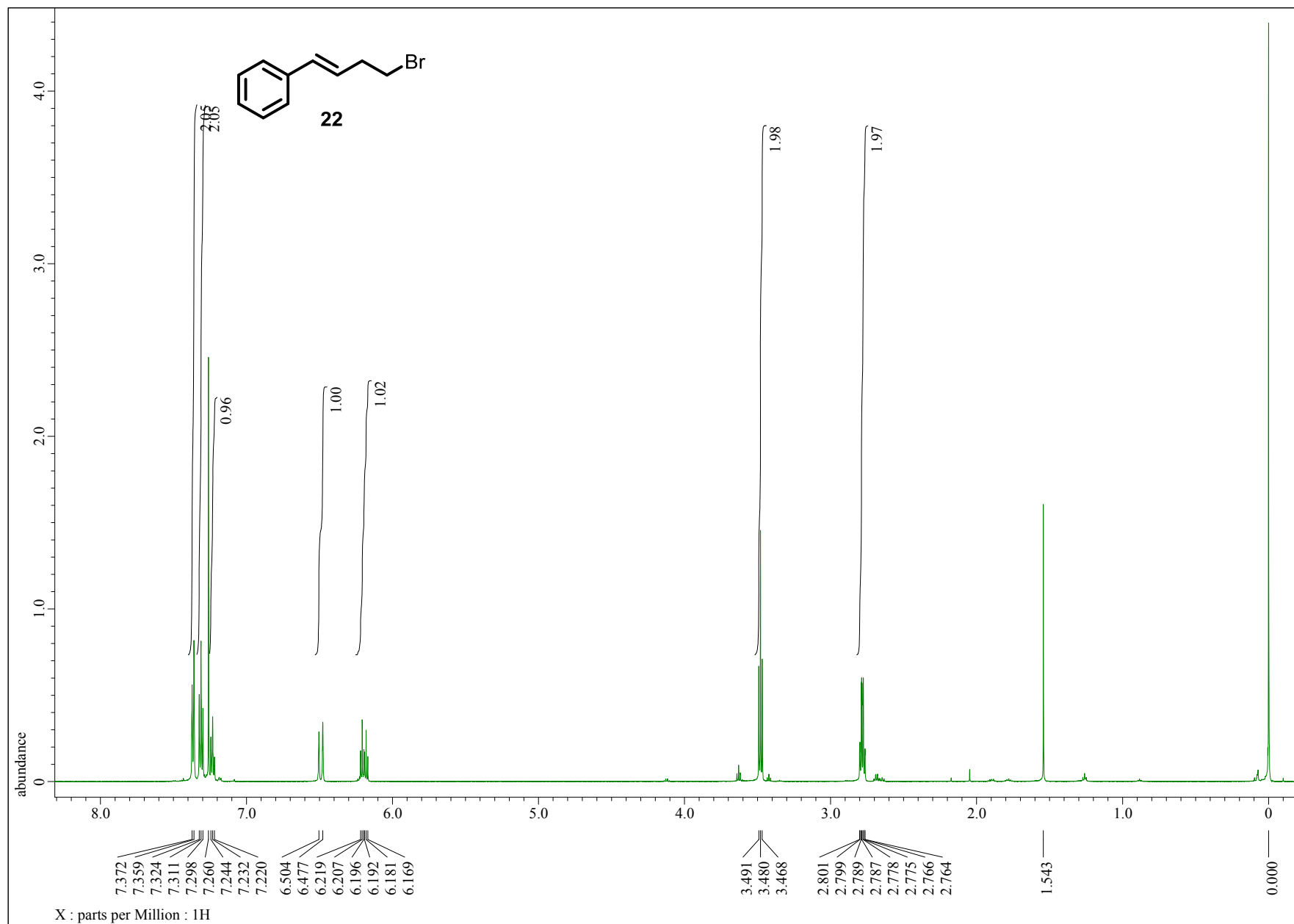


Figure S59. ¹H NMR spectrum of Mosher ester of **10** (400 MHz, in CDCl₃)

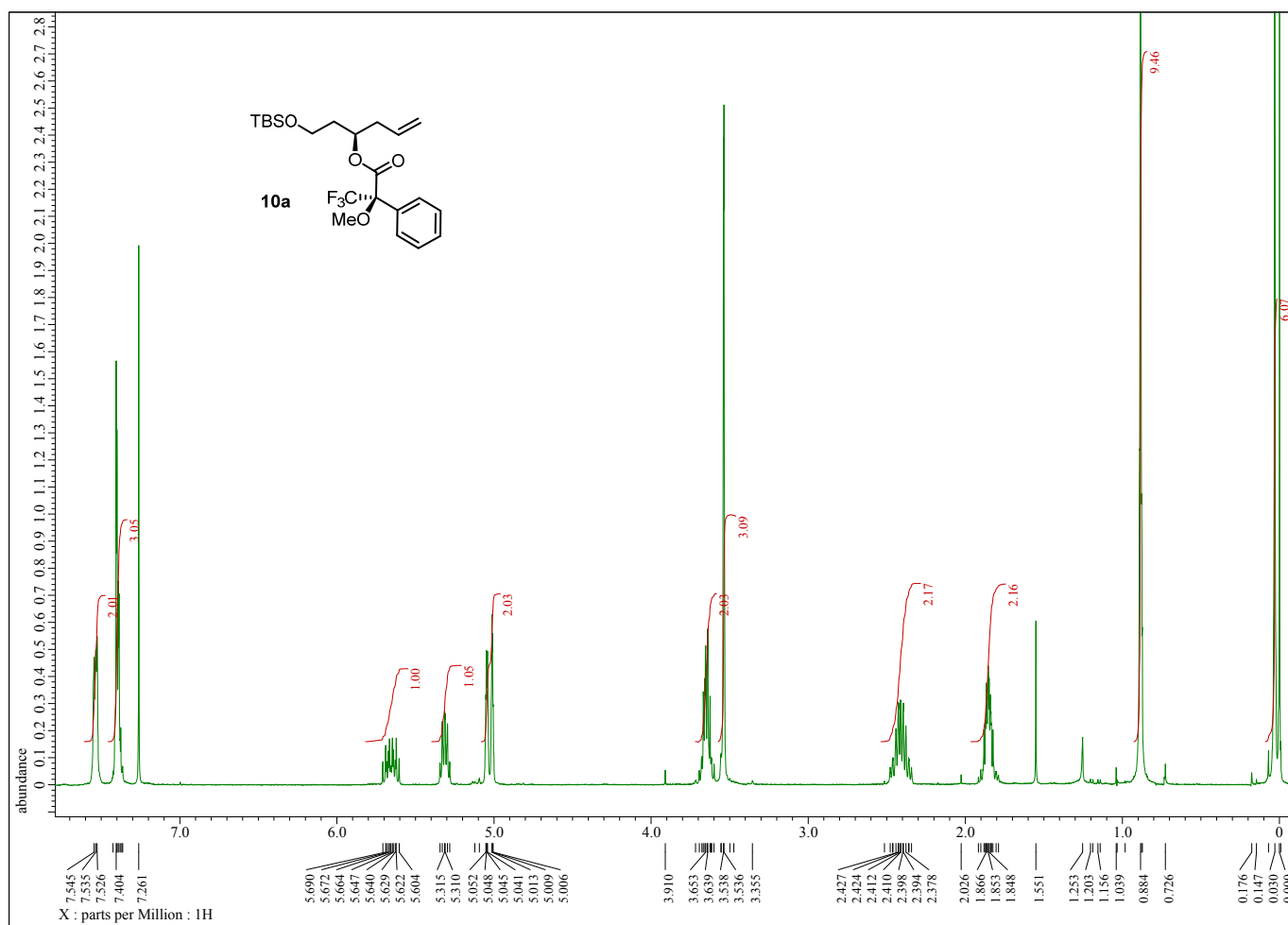


Figure S60. Comparison of ^1H NMR spectrum for synthesized (brown) and isolated (green) **7**

