



Supporting Information

for

Unsaturated fatty acids and a prenylated tryptophan derivative from a rare actinomycete of the genus *Couchioplanes*

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Copies of NMR spectra

Table of contents

| | |
|--|-----|
| Figure S1. ^1H NMR spectrum of compound 1 (500 MHz, CDCl_3) | S4 |
| Figure S2. ^{13}C NMR spectrum of 1 (125 MHz, CDCl_3) | S5 |
| Figure S3. ^1H - ^1H COSY spectrum of 1 (500 MHz, CDCl_3) | S6 |
| Figure S4. HSQC spectrum of 1 (500 MHz, CDCl_3) | S7 |
| Figure S5. HMBC spectrum of 1 (500 MHz, CDCl_3) | S8 |
| Figure S6. NOESY spectrum of 1 (500 MHz, CDCl_3) | S9 |
| Figure S7. ^1H NMR spectrum of compound 2 (500 MHz, CDCl_3) | S10 |
| Figure S8. ^{13}C NMR spectrum of 2 (125 MHz, CDCl_3) | S11 |
| Figure S9. ^1H - ^1H COSY spectrum of 2 (500 MHz, CDCl_3) | S12 |
| Figure S10. HSQC spectrum of 2 (500 MHz, CDCl_3) | S13 |
| Figure S11. HMBC spectrum of 2 (500 MHz, CDCl_3) | S14 |
| Figure S12. NOESY spectrum of 2 (500 MHz, CDCl_3) | S15 |
| Figure S13. ^1H NMR spectrum of compound 3 (500 MHz, CDCl_3) | S16 |
| Figure S14. ^{13}C NMR spectrum of 3 (125 MHz, CDCl_3) | S17 |
| Figure S15. ^1H - ^1H COSY spectrum of 3 (500 MHz, CDCl_3) | S18 |
| Figure S16. HSQC spectrum of 3 (500 MHz, CDCl_3) | S19 |
| Figure S17. HMBC spectrum of 3 (500 MHz, CDCl_3) | S20 |
| Figure S18. NOESY spectrum of 3 (500 MHz, CDCl_3) | S21 |
| Figure S19. ^1H NMR spectrum of compound 4 (500 MHz, CDCl_3) | S22 |
| Figure S20. ^{13}C NMR spectrum of 4 (125 MHz, CDCl_3) | S23 |
| Figure S21. ^1H - ^1H COSY spectrum of 4 (500 MHz, CDCl_3) | S24 |
| Figure S22. HSQC spectrum of 4 (500 MHz, CDCl_3) | S25 |
| Figure S23. HMBC spectrum of 4 (500 MHz, CDCl_3) | S26 |
| Figure S24. NOESY spectrum of 4 (500 MHz, CDCl_3) | S27 |
| Figure S25. ^1H - ^1H COSY spectrum of 4'a (500 MHz, CDCl_3) | S28 |
| Figure S26. ^1H - ^1H COSY spectrum of 4'b (500 MHz, CDCl_3) | S29 |
| Figure S27. ^1H NMR spectrum of compound 5 (500 MHz, CDCl_3) | S30 |
| Figure S28. ^{13}C NMR spectrum of 5 (125 MHz, CDCl_3) | S31 |
| Figure S29. ^1H - ^1H COSY spectrum of 5 (500 MHz, CDCl_3) | S32 |
| Figure S30. HSQC spectrum of 5 (500 MHz, CDCl_3) | S33 |
| Figure S31. HMBC spectrum of 5 (500 MHz, CDCl_3) | S34 |
| Figure S32. NOESY spectrum of 5 (500 MHz, CDCl_3) | S35 |
| Figure S33. ^1H NMR spectrum of compound 6 (500 MHz, CDCl_3) | S36 |
| Figure S34. ^{13}C NMR spectrum of 6 (125 MHz, CDCl_3) | S37 |

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|---|-----|
| Figure S35. ^1H - ^1H COSY spectrum of 6 (500 MHz, CDCl_3) | S38 |
| Figure S36. HSQC spectrum of 6 (500 MHz, CDCl_3) | S39 |
| Figure S37. HMBC spectrum of 6 (500 MHz, CDCl_3) | S40 |
| Figure S38. ^1H NMR spectrum of 6a (500 MHz, $\text{DMSO}-d_6$) | S41 |
| Figure S39. ^1H - ^1H COSY spectrum of 6a (500 MHz, $\text{DMSO}-d_6$) | S42 |
| Figure S40. HSQC spectrum of 6a (500 MHz, $\text{DMSO}-d_6$) | S43 |
| Figure S41. HMBC spectrum of 6a (500 MHz, $\text{DMSO}-d_6$) | S44 |
| Figure S42. ^1H NMR spectrum of 6b (500 MHz, $\text{DMSO}-d_6$) | S45 |
| Figure S43. ^1H - ^1H COSY spectrum of 6b (500 MHz, $\text{DMSO}-d_6$) | S46 |
| Figure S44. HSQC spectrum of 6b (500 MHz, $\text{DMSO}-d_6$) | S47 |
| Figure S45. HMBC spectrum of 6b (500 MHz, $\text{DMSO}-d_6$) | S48 |

Figure S1. ^1H NMR spectrum of compound **1** (500 MHz, CDCl_3).

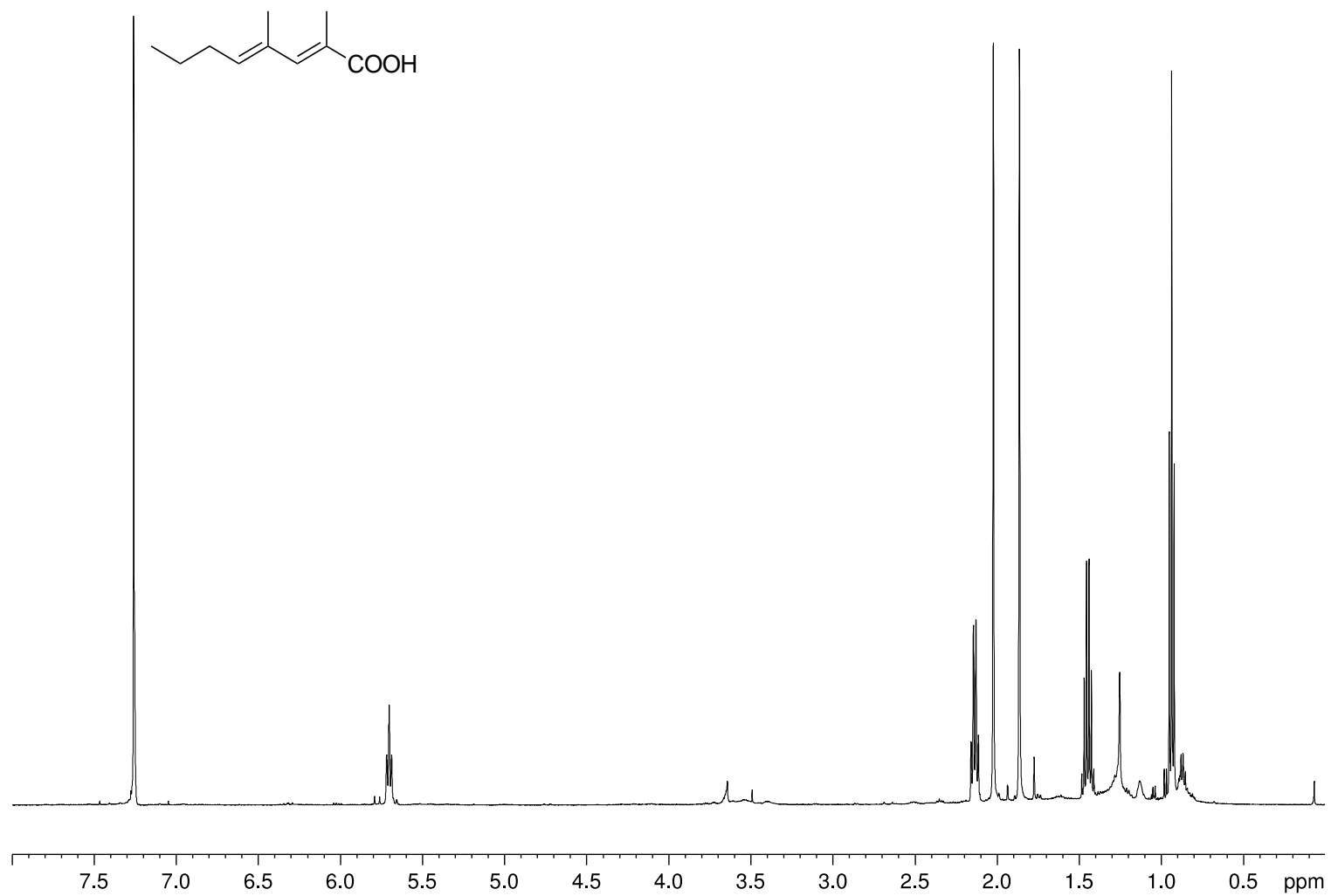


Figure S2. ^{13}C NMR spectrum of **1** (500 MHz, CDCl_3).

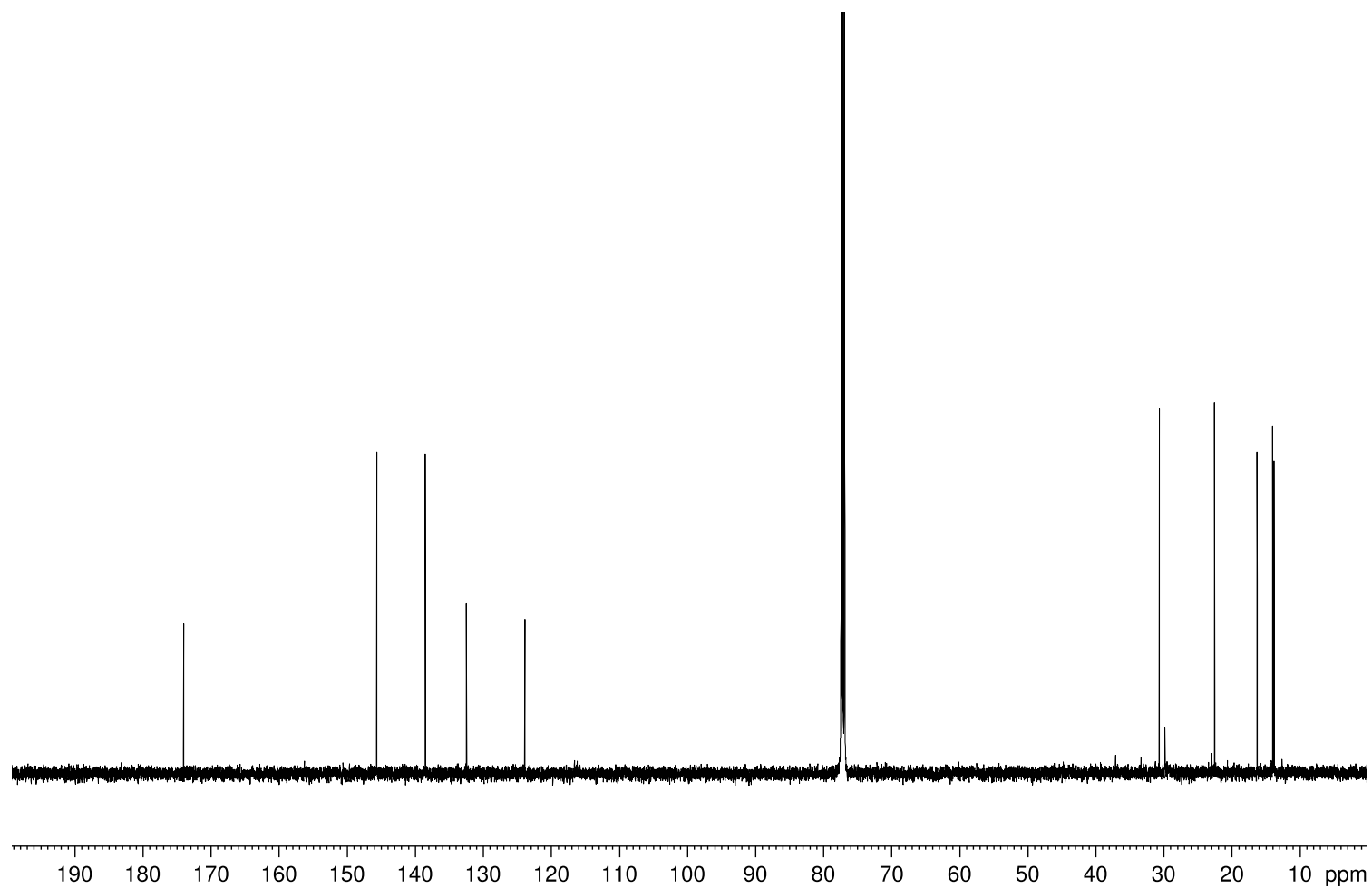


Figure S3. ^1H - ^1H COSY spectrum of **1** (500 MHz, CDCl_3).

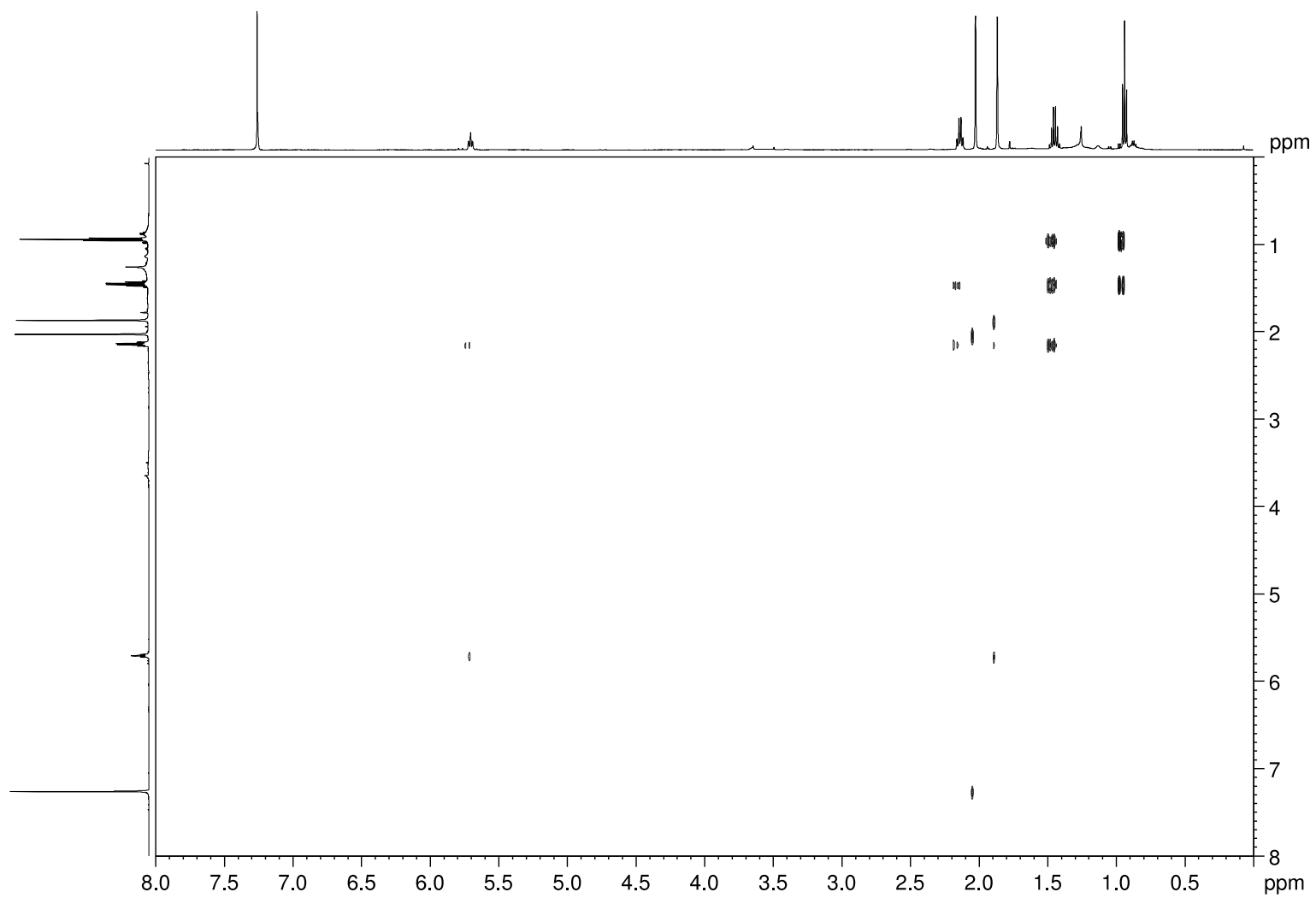


Figure S4. HSQC spectrum of **1** (500 MHz, CDCl₃).

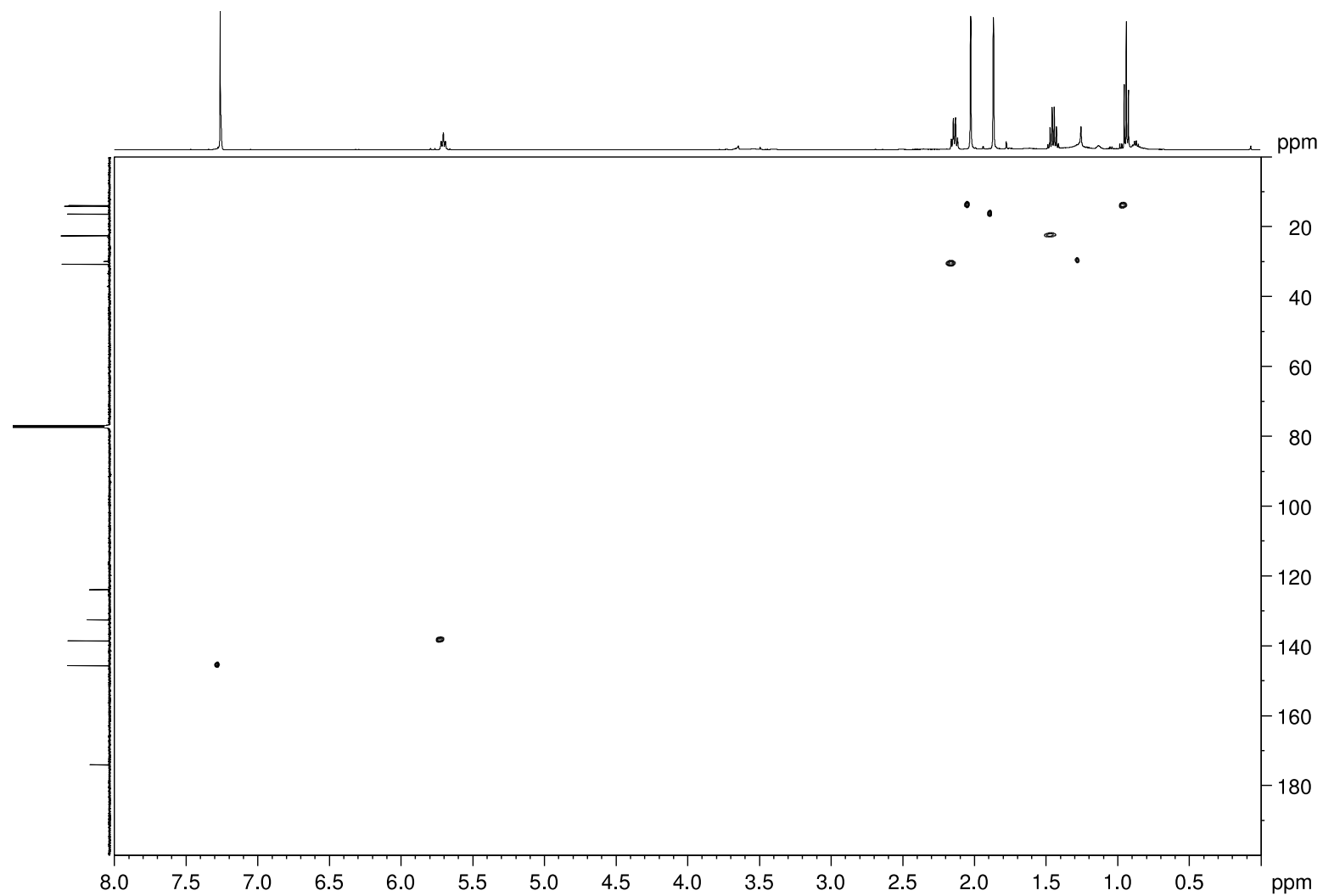


Figure S5. HMBC spectrum of **1** (500 MHz, CDCl₃).

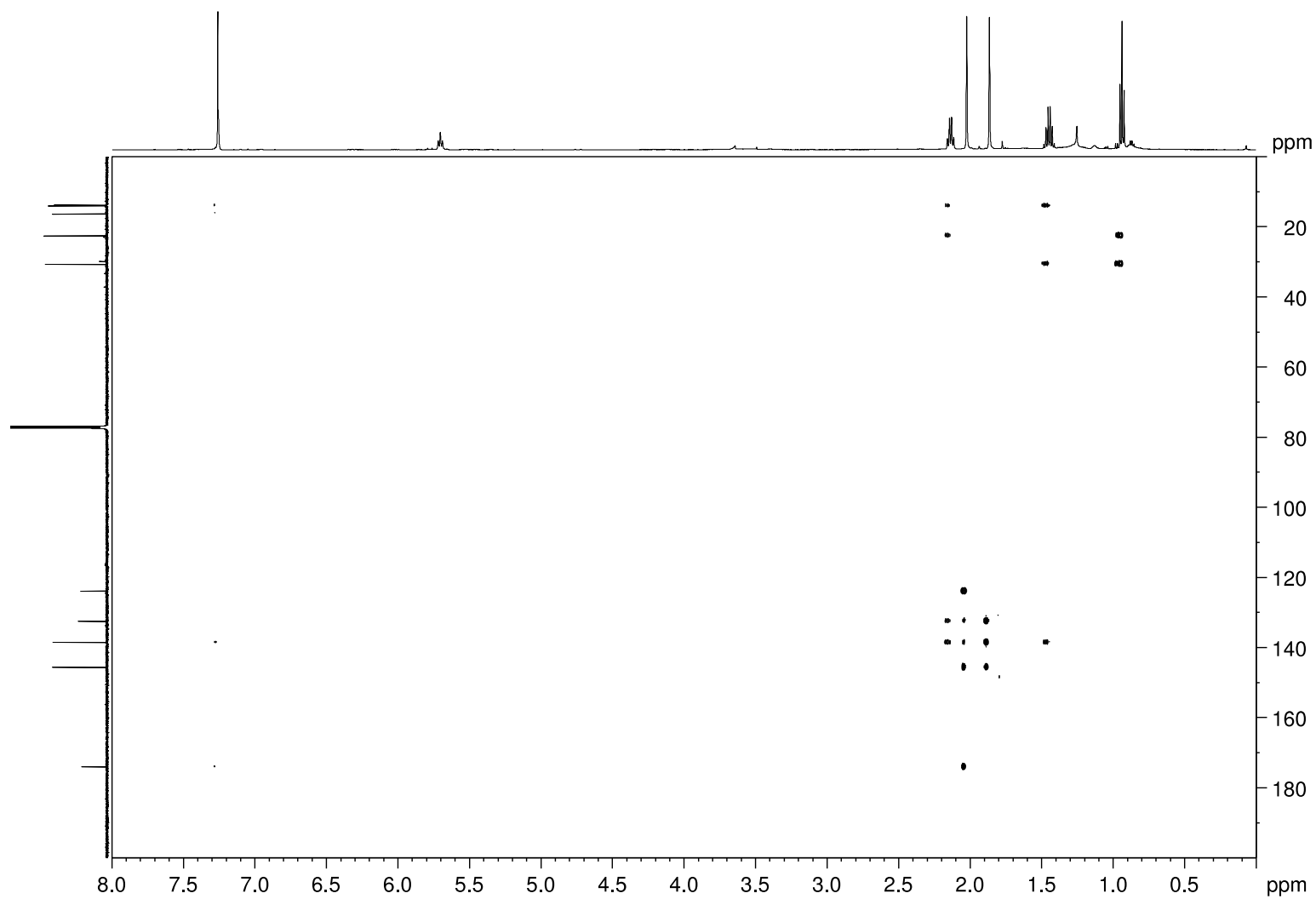


Figure S6. NOESY spectrum of **1** (500 MHz, CDCl₃).

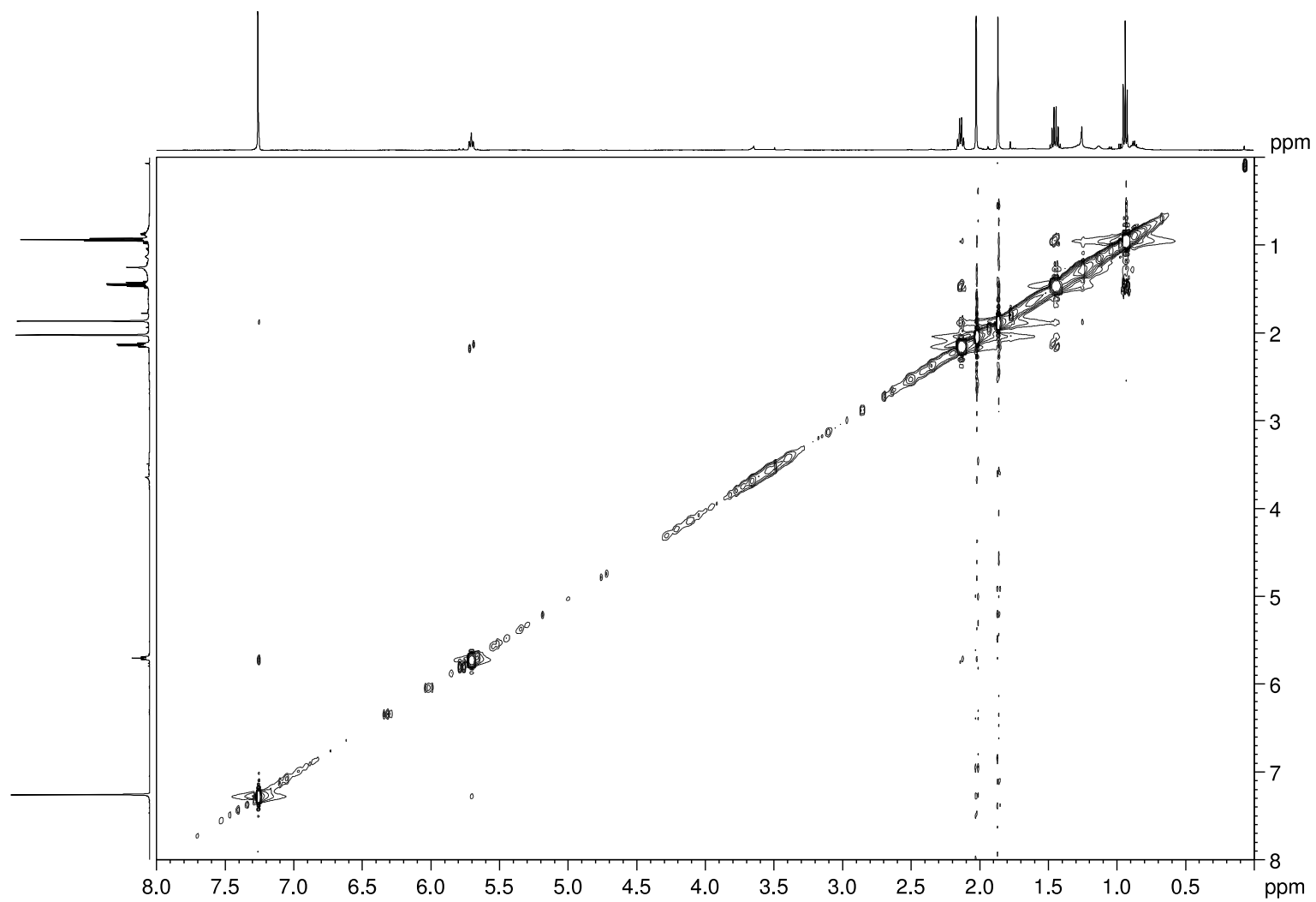


Figure S7. ^1H NMR spectrum of compound **2** (500 MHz, CDCl_3).

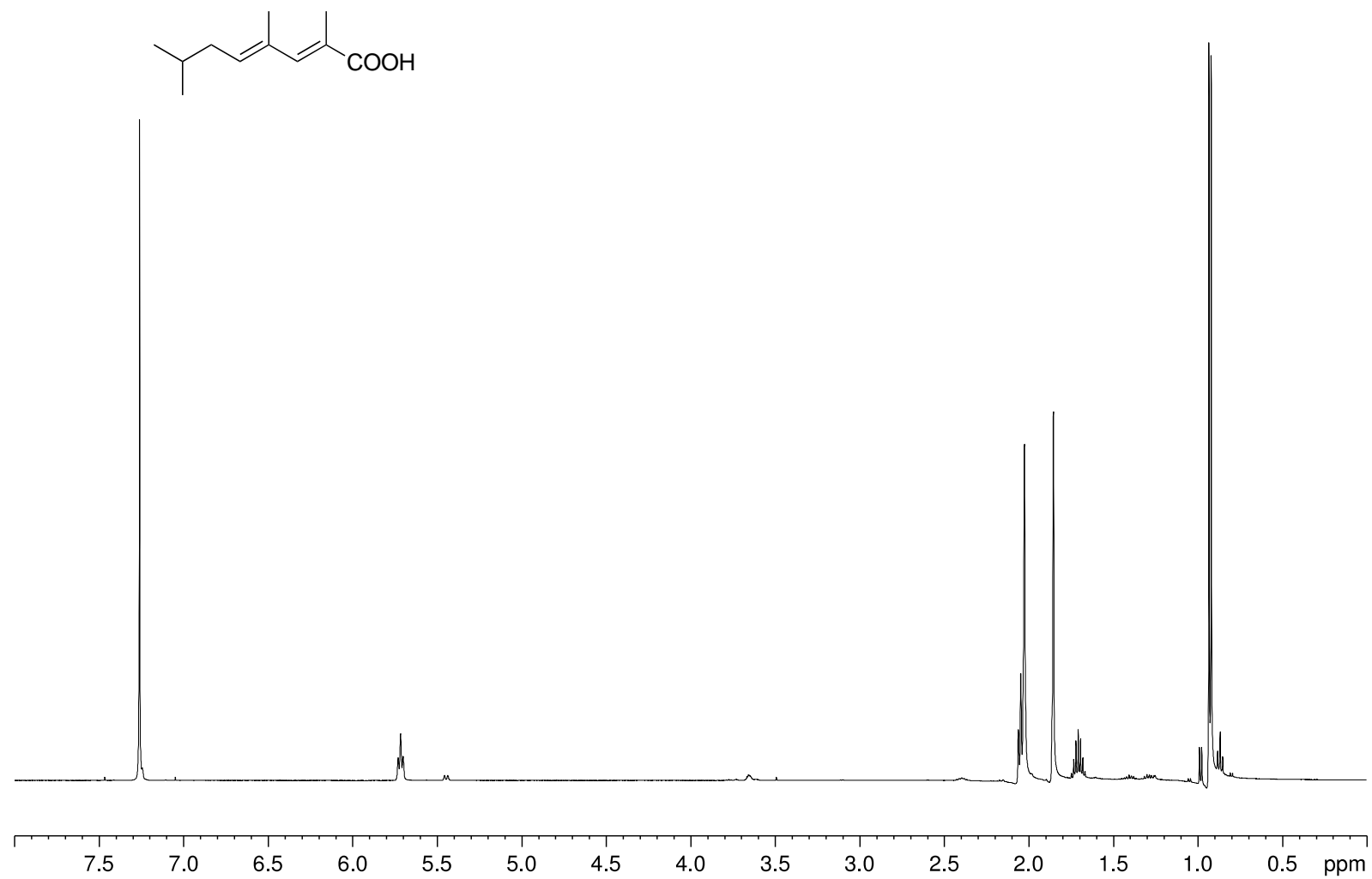


Figure S8. ^{13}C NMR spectrum of **2** (125 MHz, CDCl_3).

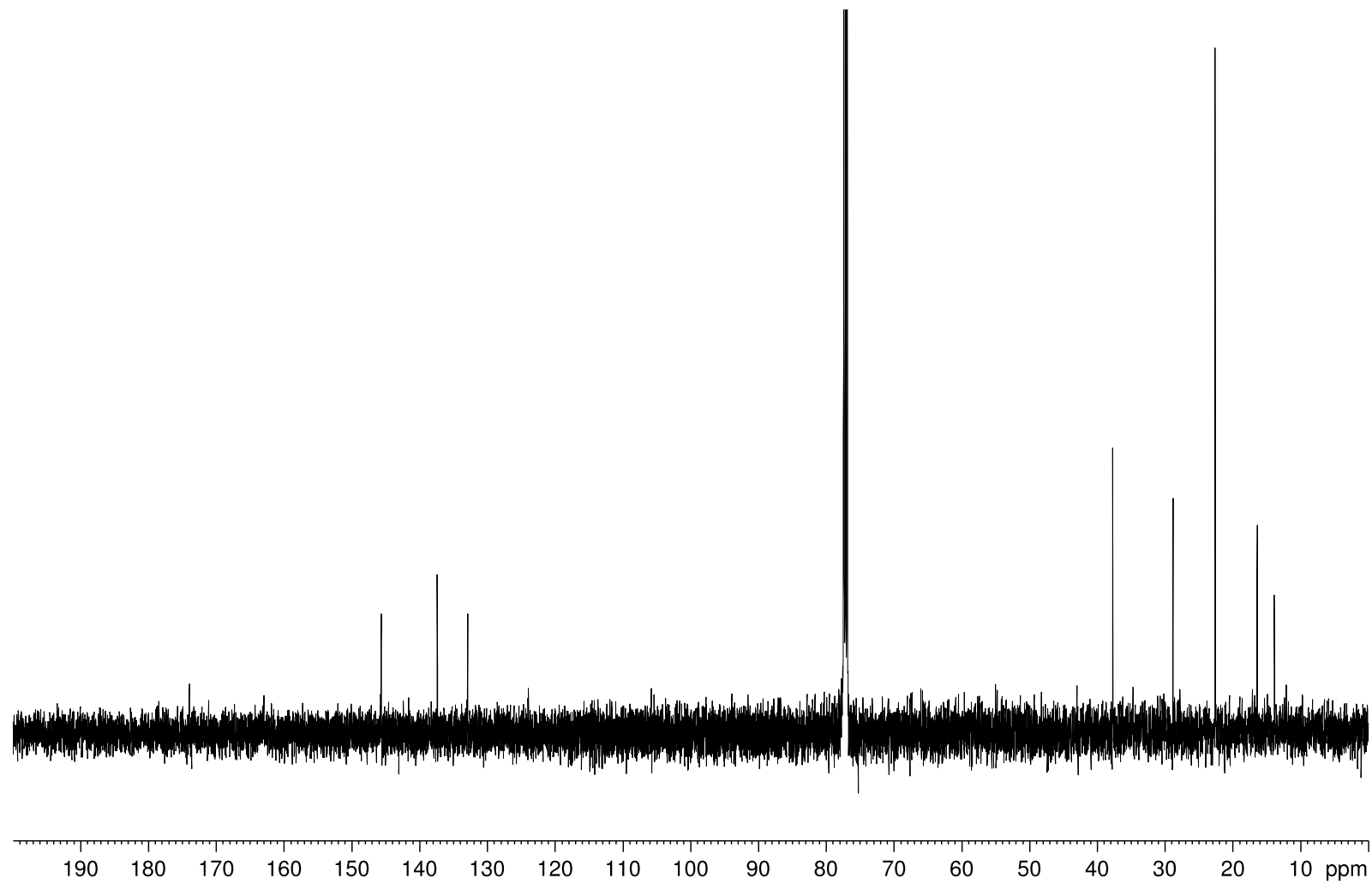


Figure S9. ^1H - ^1H COSY spectrum of **2** (500 MHz, CDCl_3).

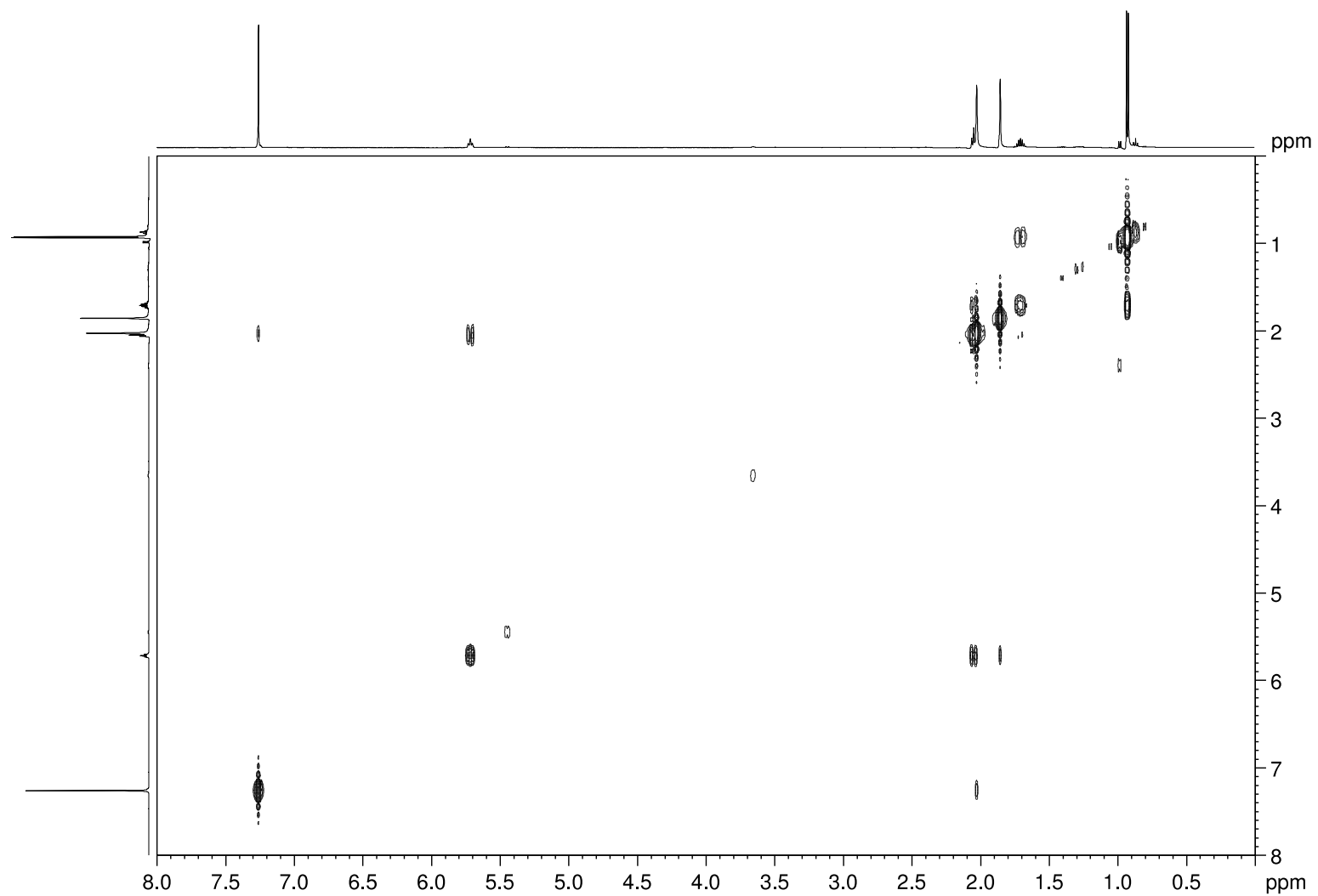


Figure S10. HSQC spectrum of **2** (500 MHz, CDCl₃).

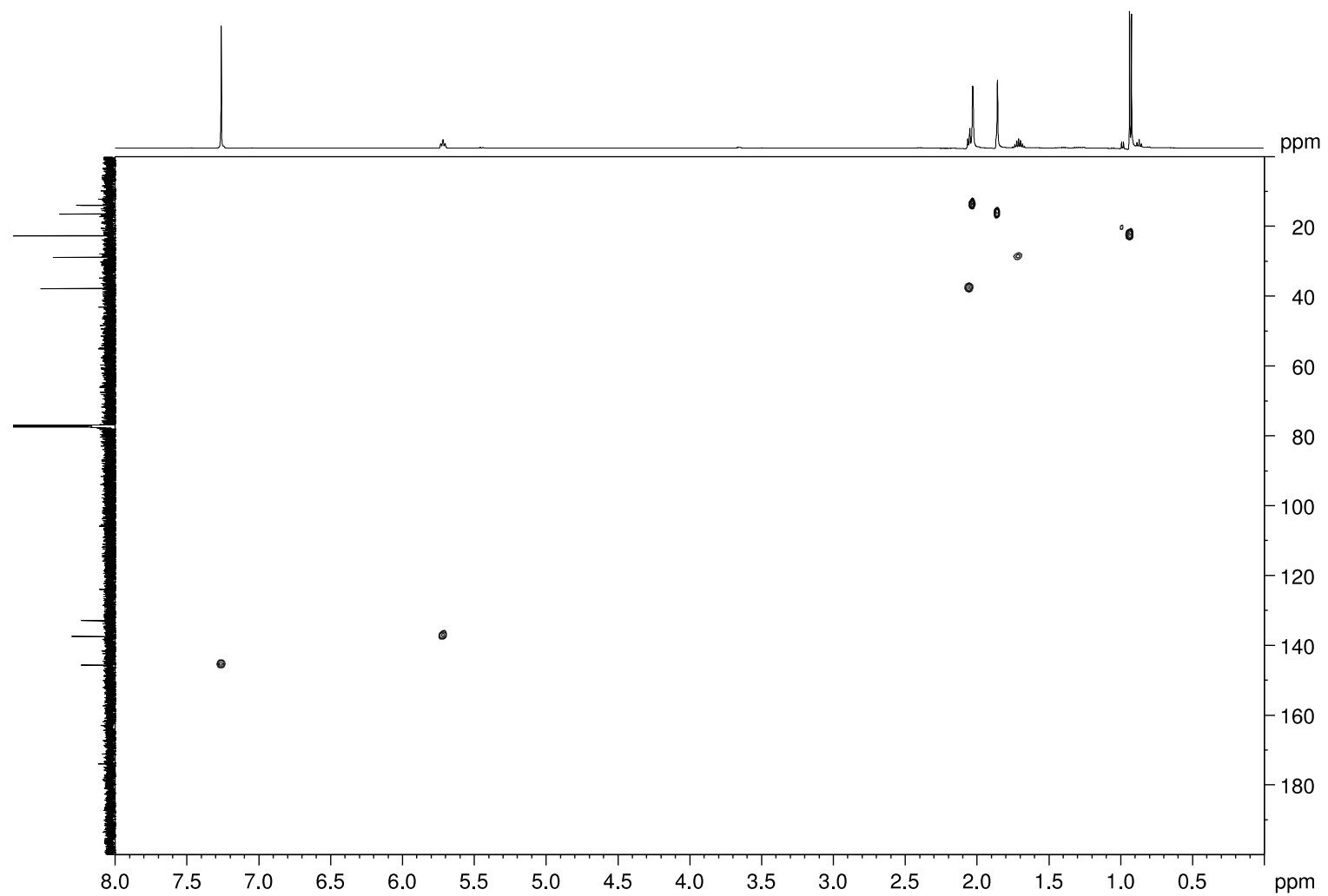


Figure S11. HMBC spectrum of **2** (500 MHz, CDCl₃).

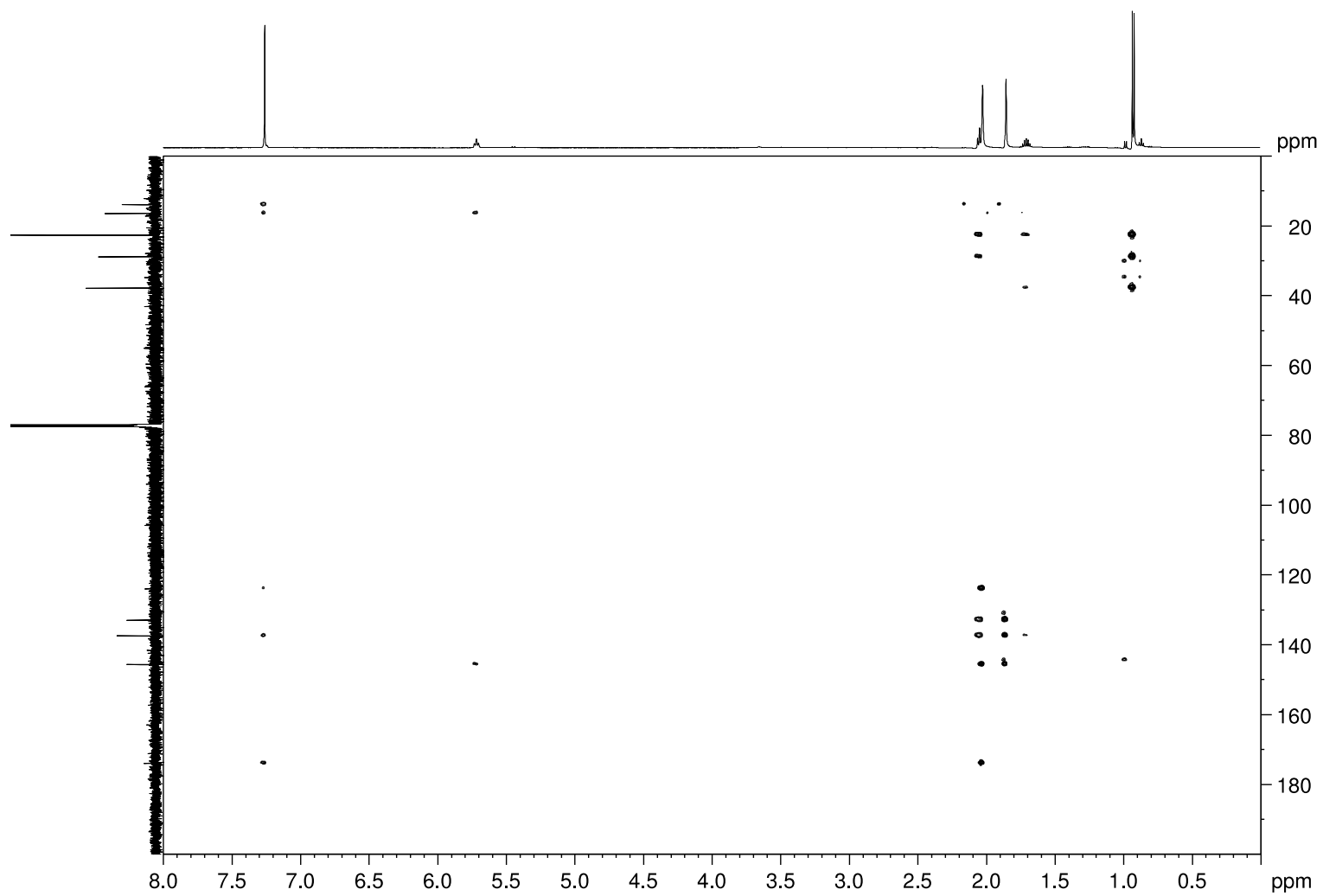


Figure S12. NOESY spectrum of **2** (500 MHz, CDCl₃).

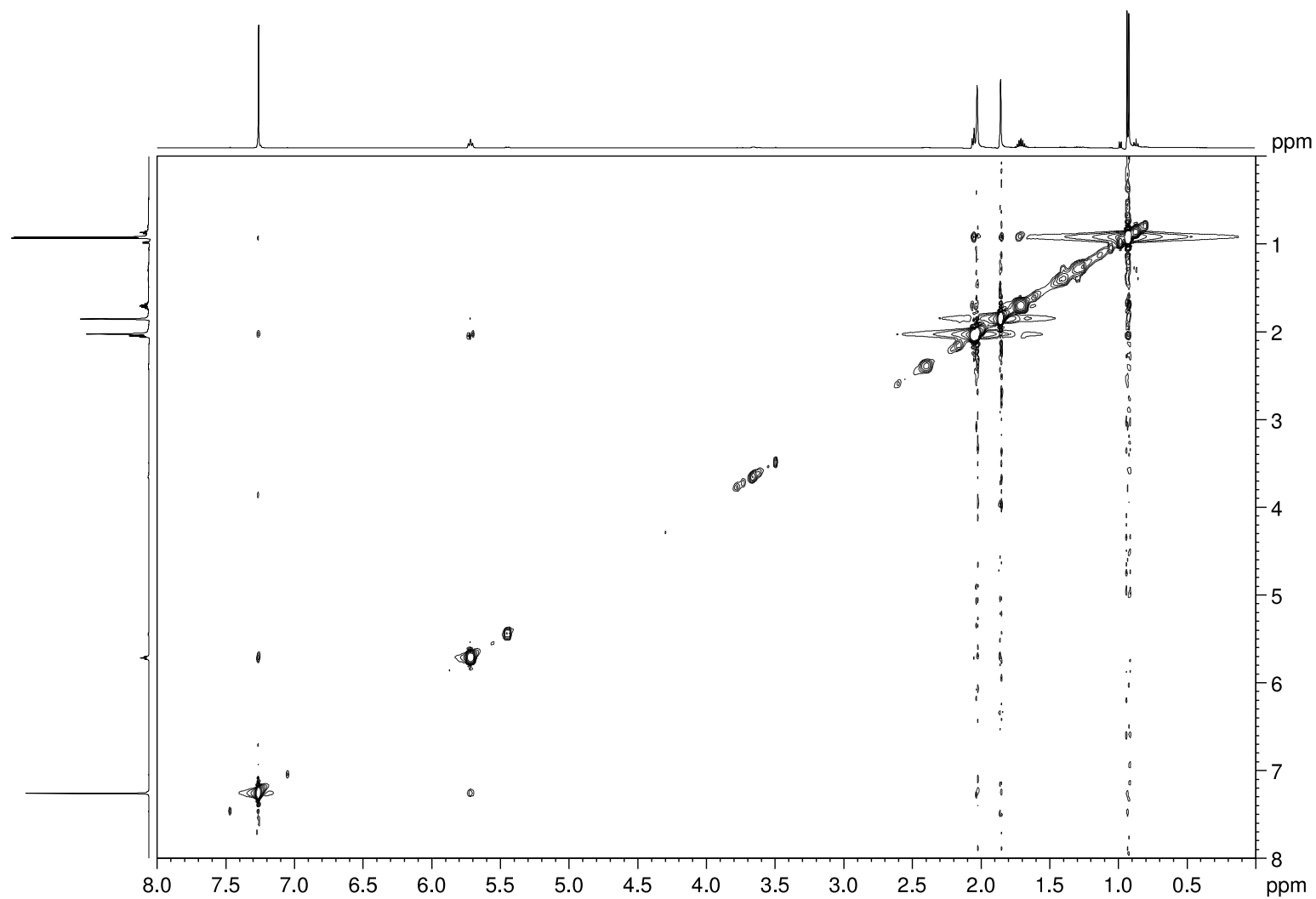


Figure S13. ^1H NMR spectrum of compound **3** (500 MHz, CDCl_3).

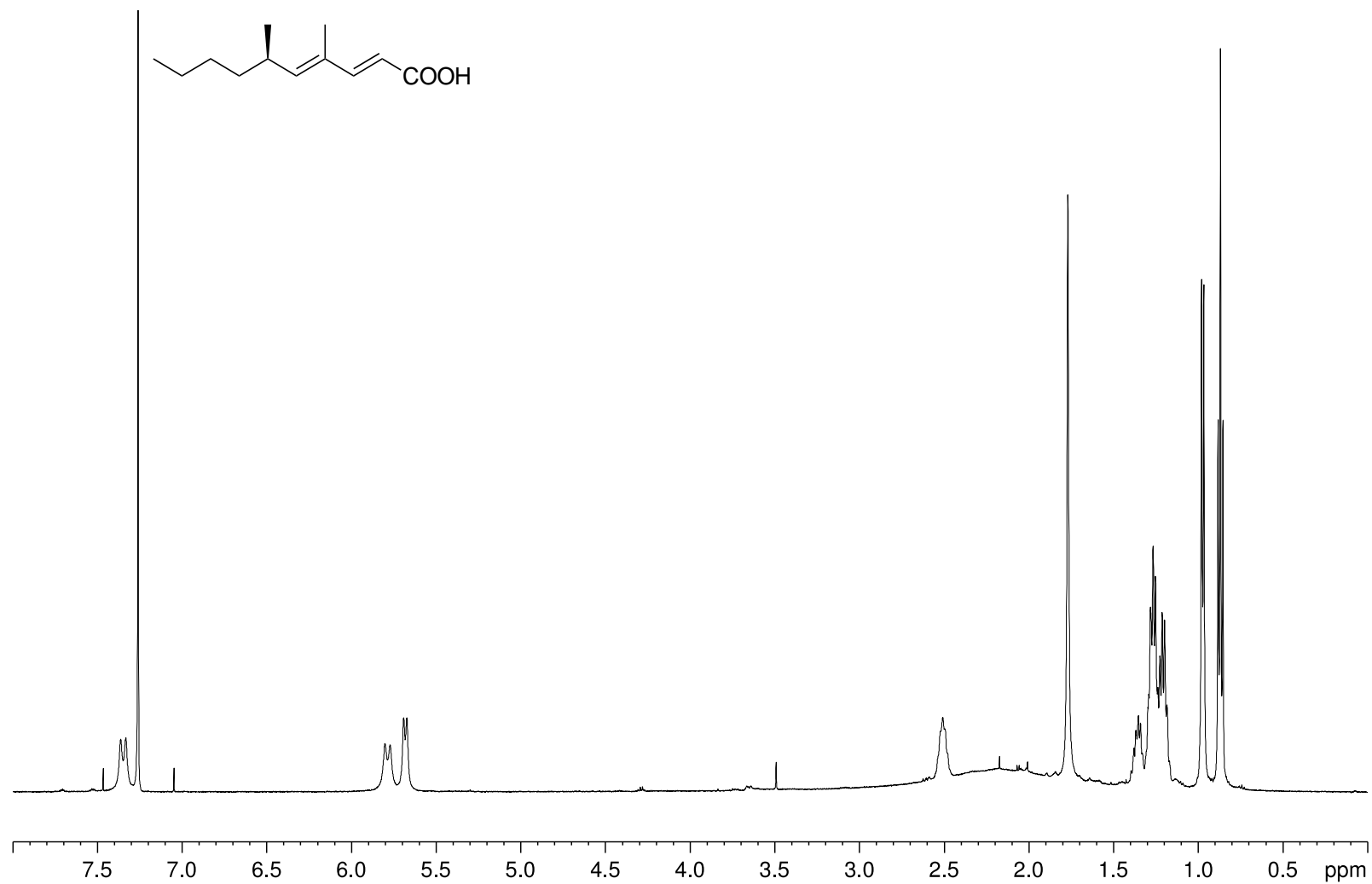


Figure S14. ^{13}C NMR spectrum of **3** (125 MHz, CDCl_3).

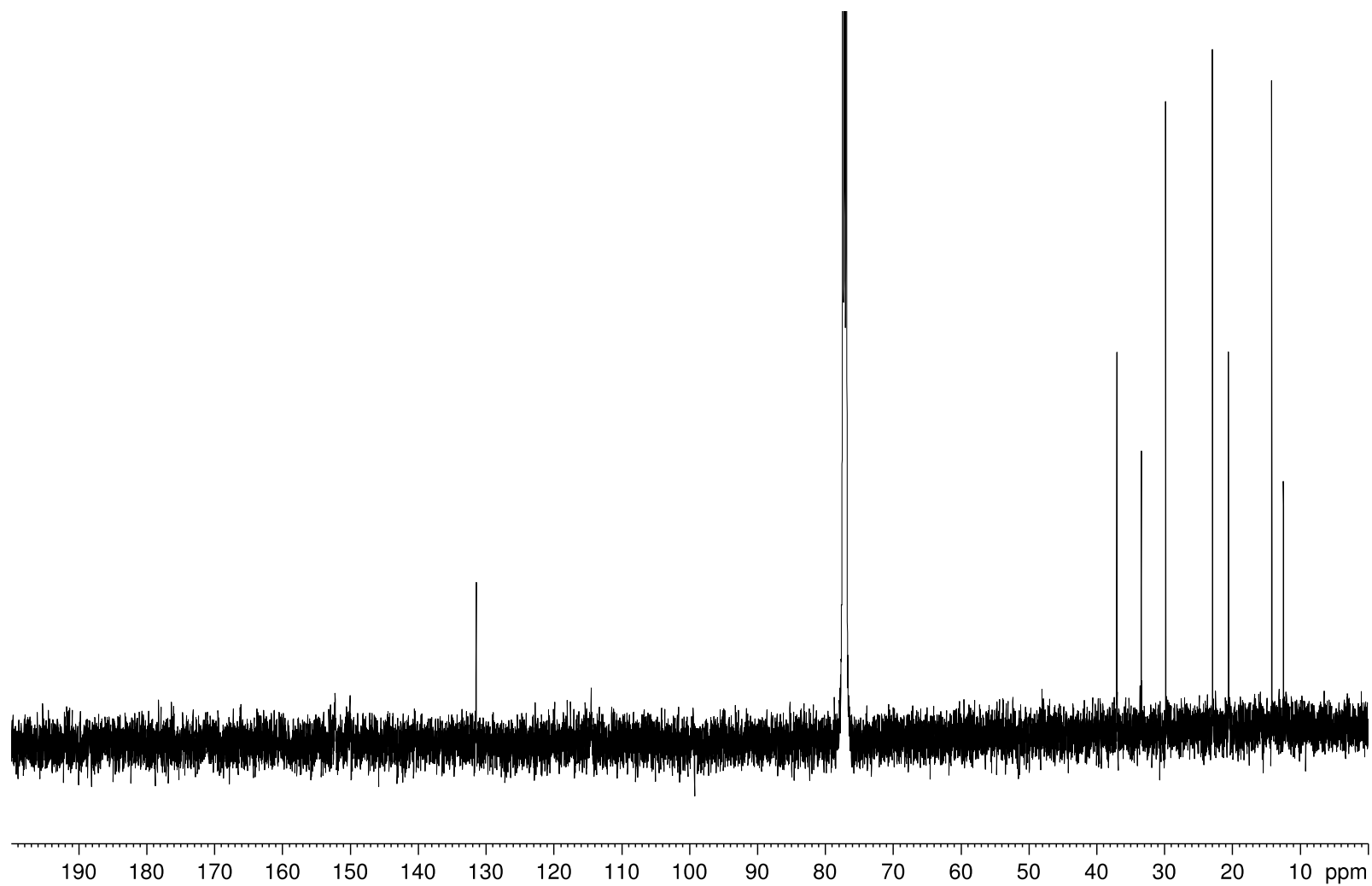


Figure S15. ^1H - ^1H COSY spectrum of **3** (500 MHz, CDCl_3).

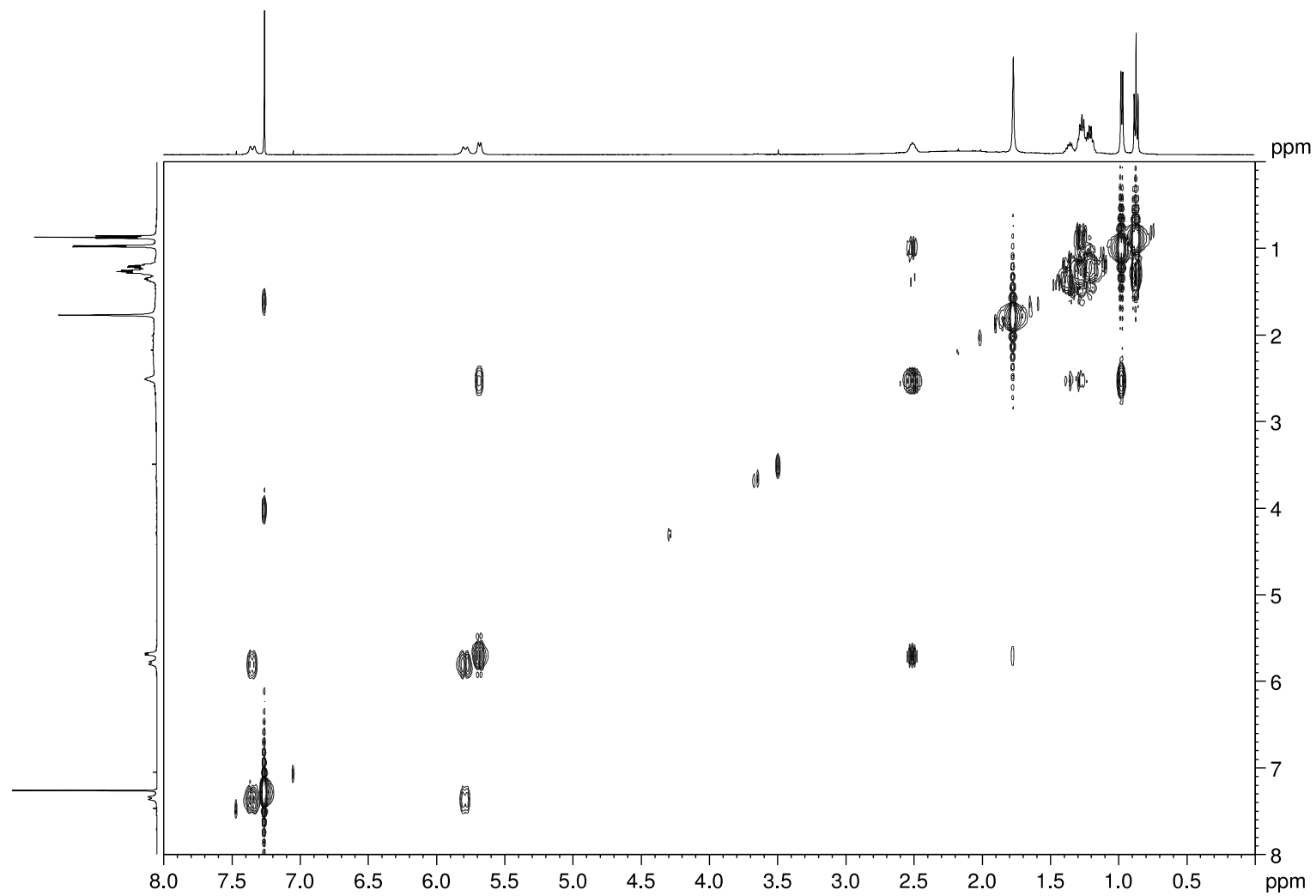


Figure S16. HSQC spectrum of **3** (500 MHz, CDCl₃).

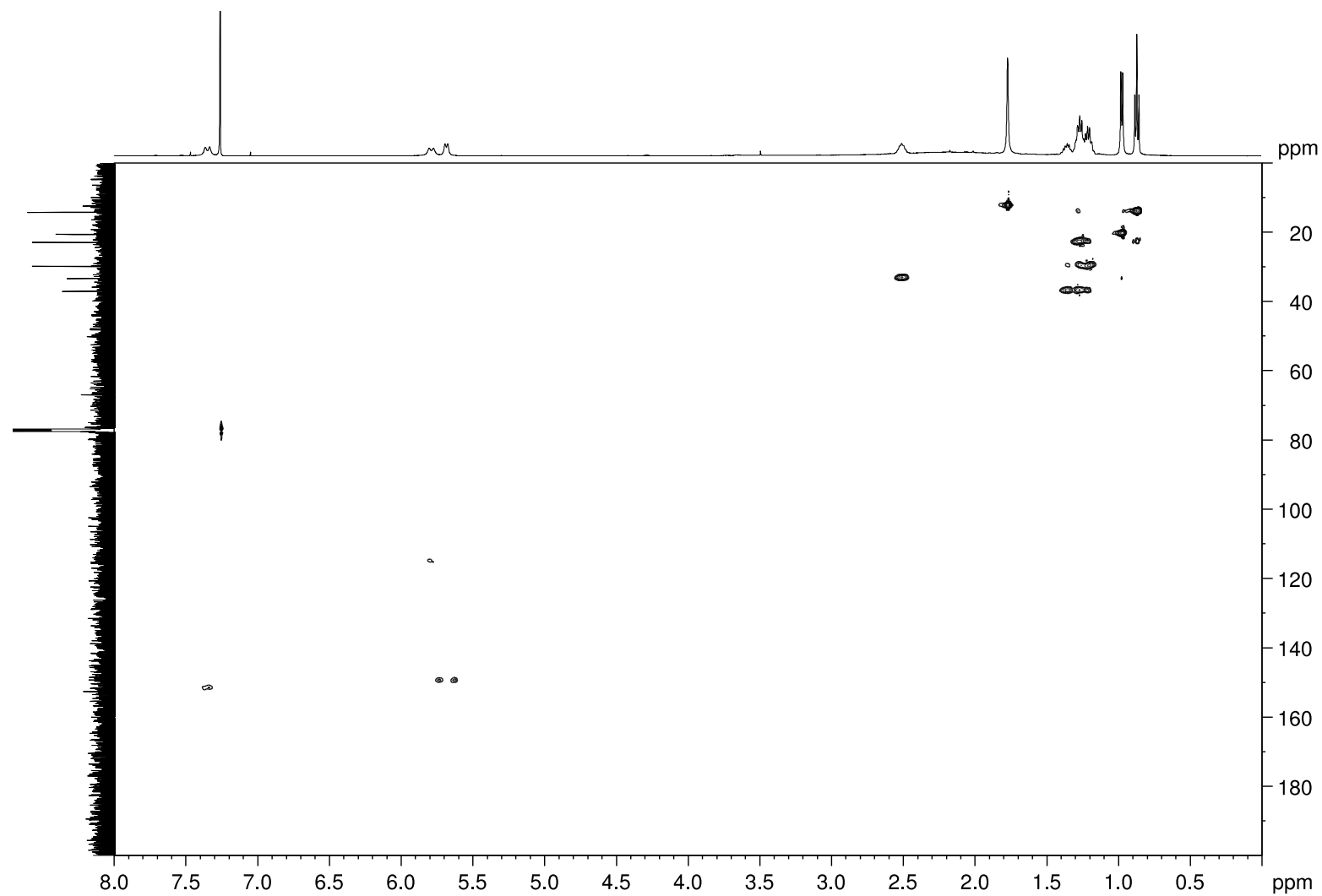


Figure S17. HMBC spectrum of **3** (500 MHz, CDCl₃).

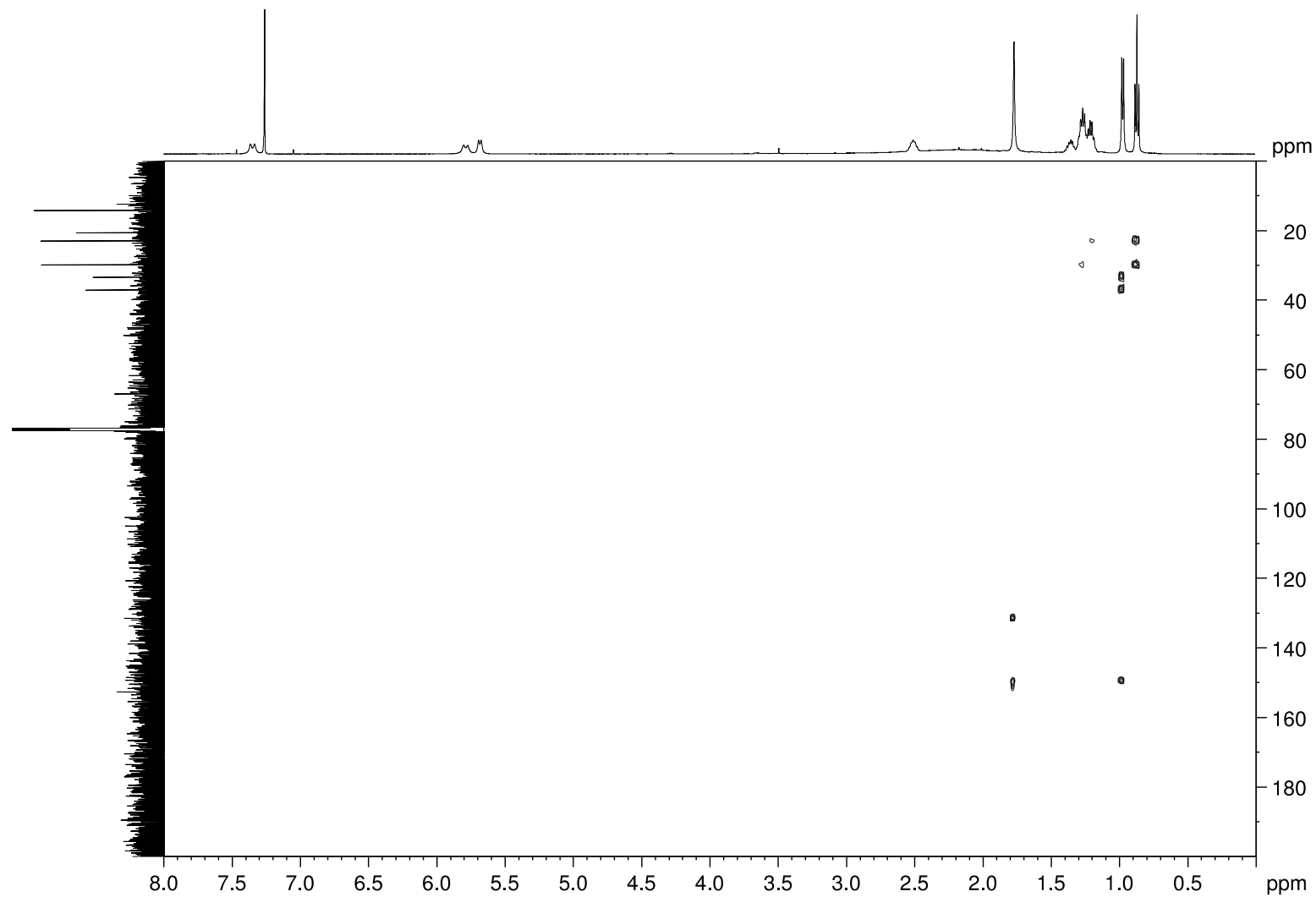


Figure S18. NOESY spectrum of **3** (500 MHz, CDCl₃).

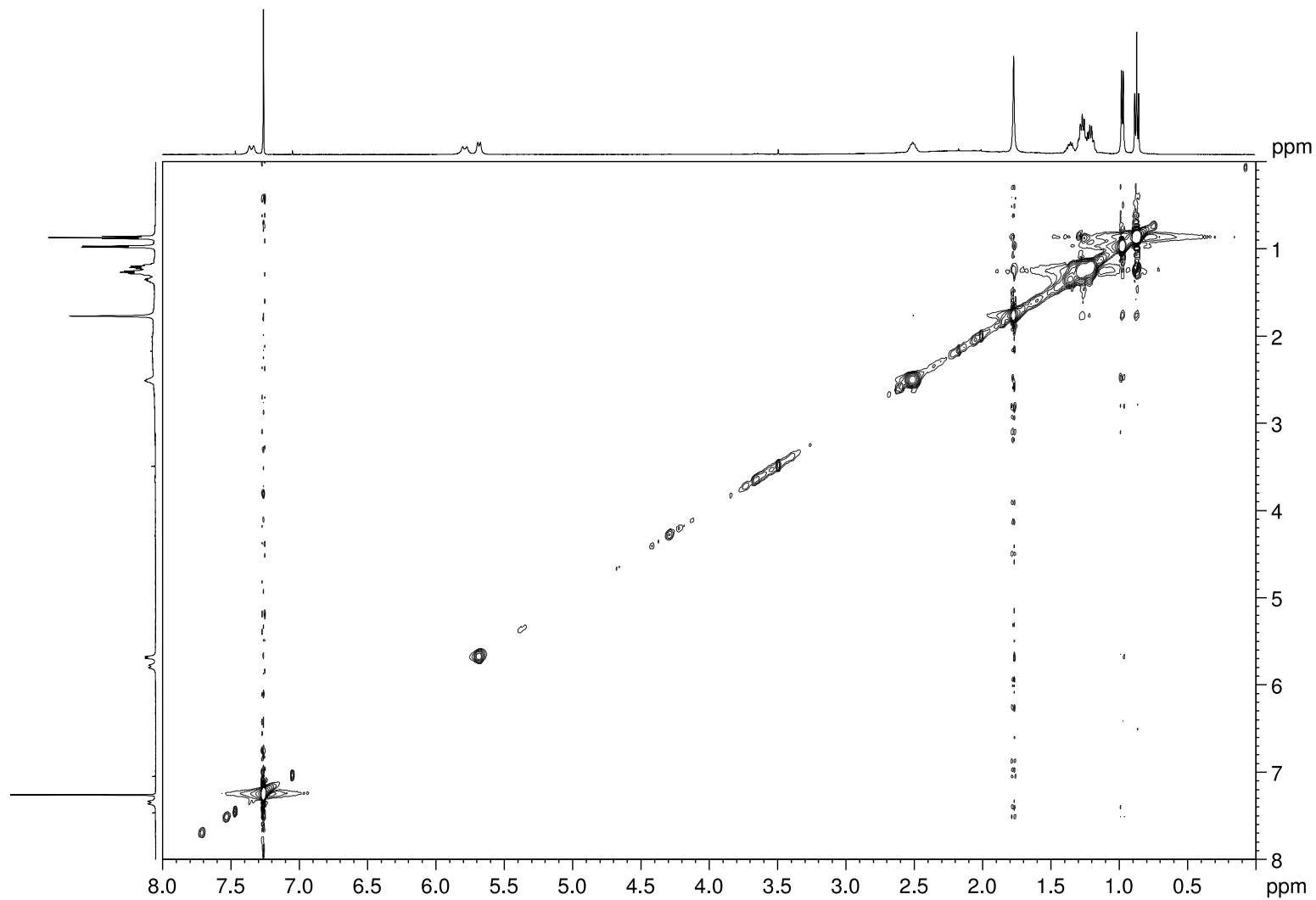


Figure S19. ^1H NMR spectrum of compound **4** (500 MHz, CDCl_3).

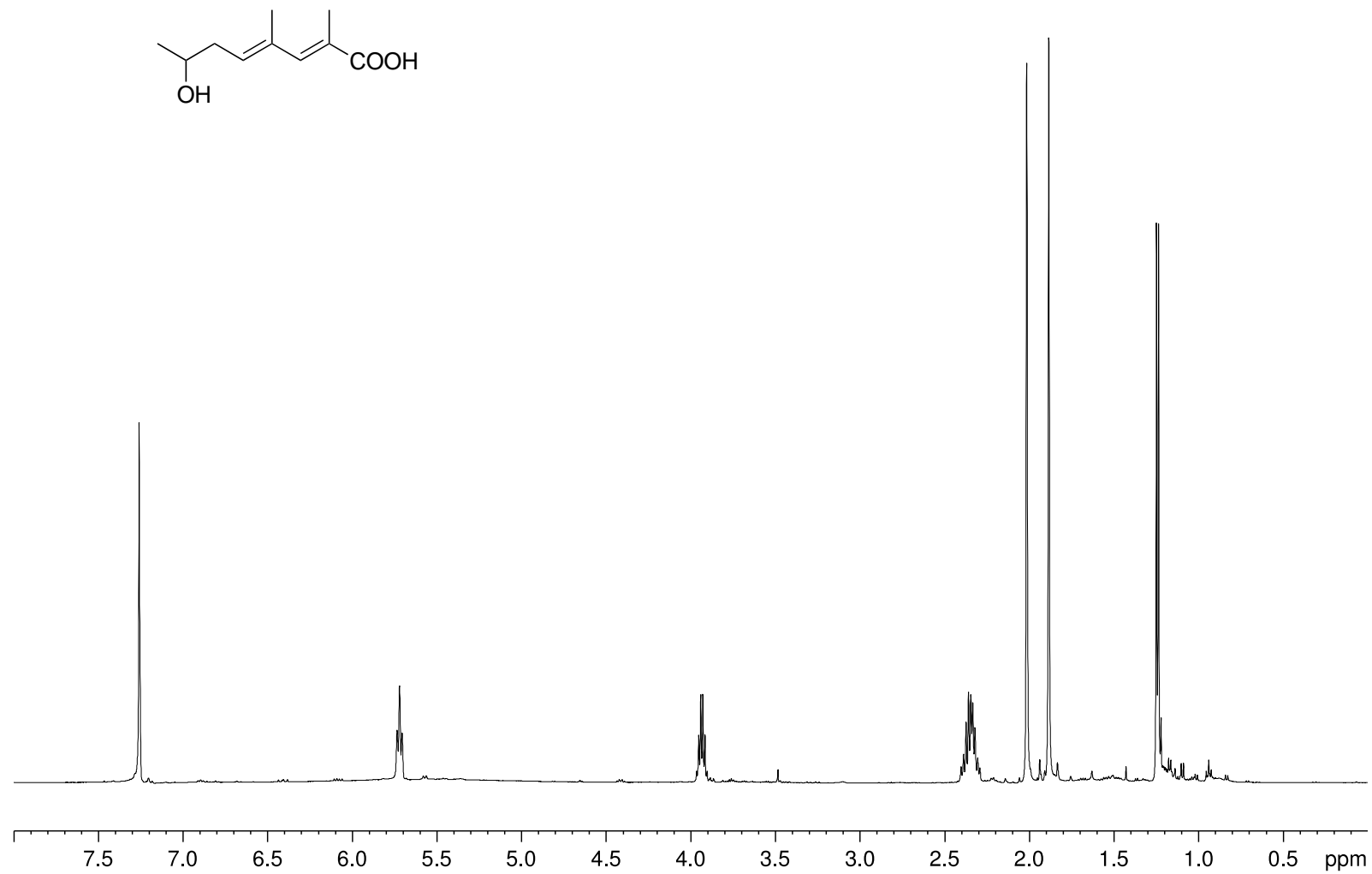


Figure S20. ^{13}C NMR spectrum of **4** (125 MHz, CDCl_3).

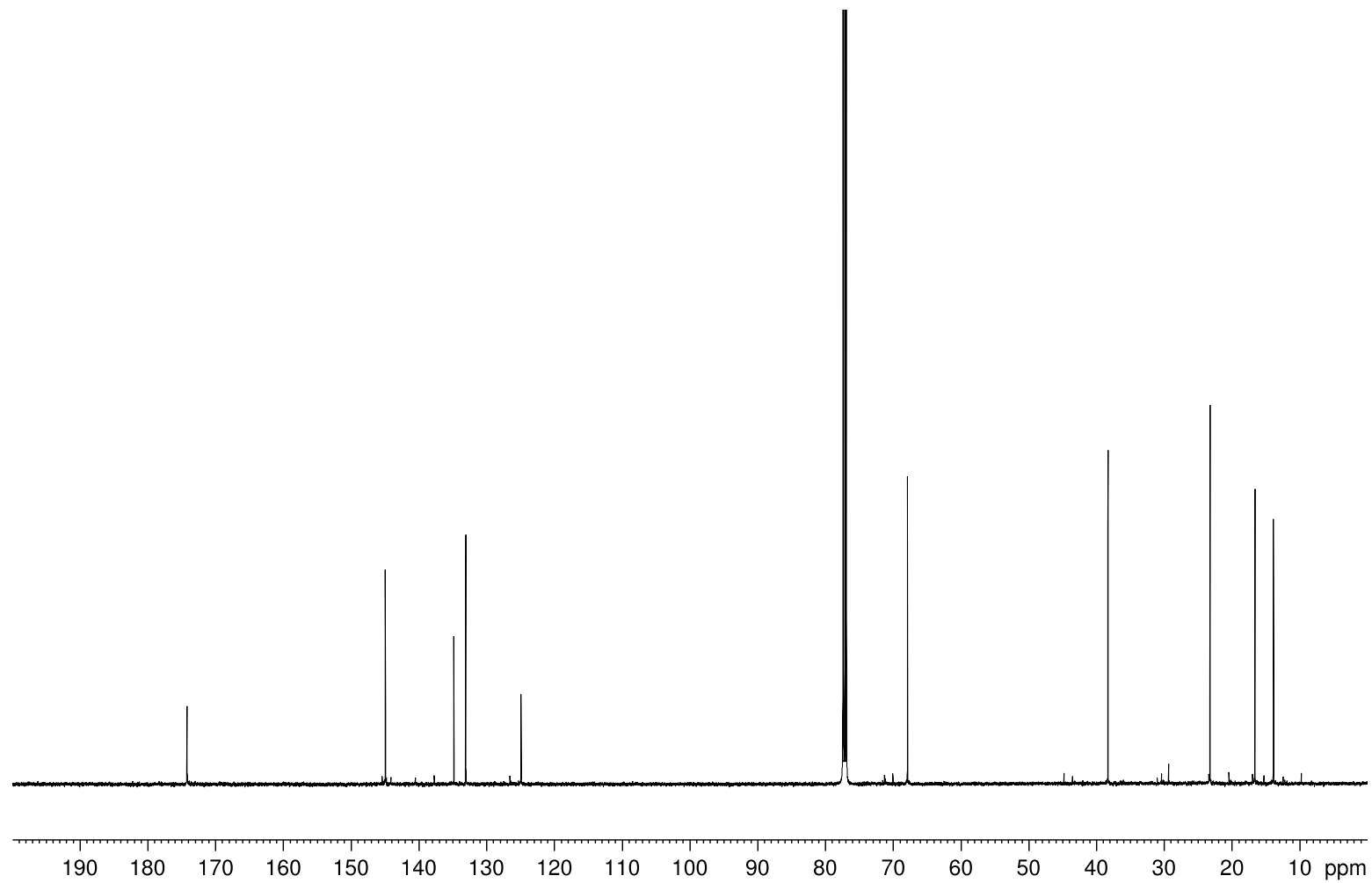


Figure S21. ^1H - ^1H COSY spectrum of **4** (500 MHz, CDCl_3).

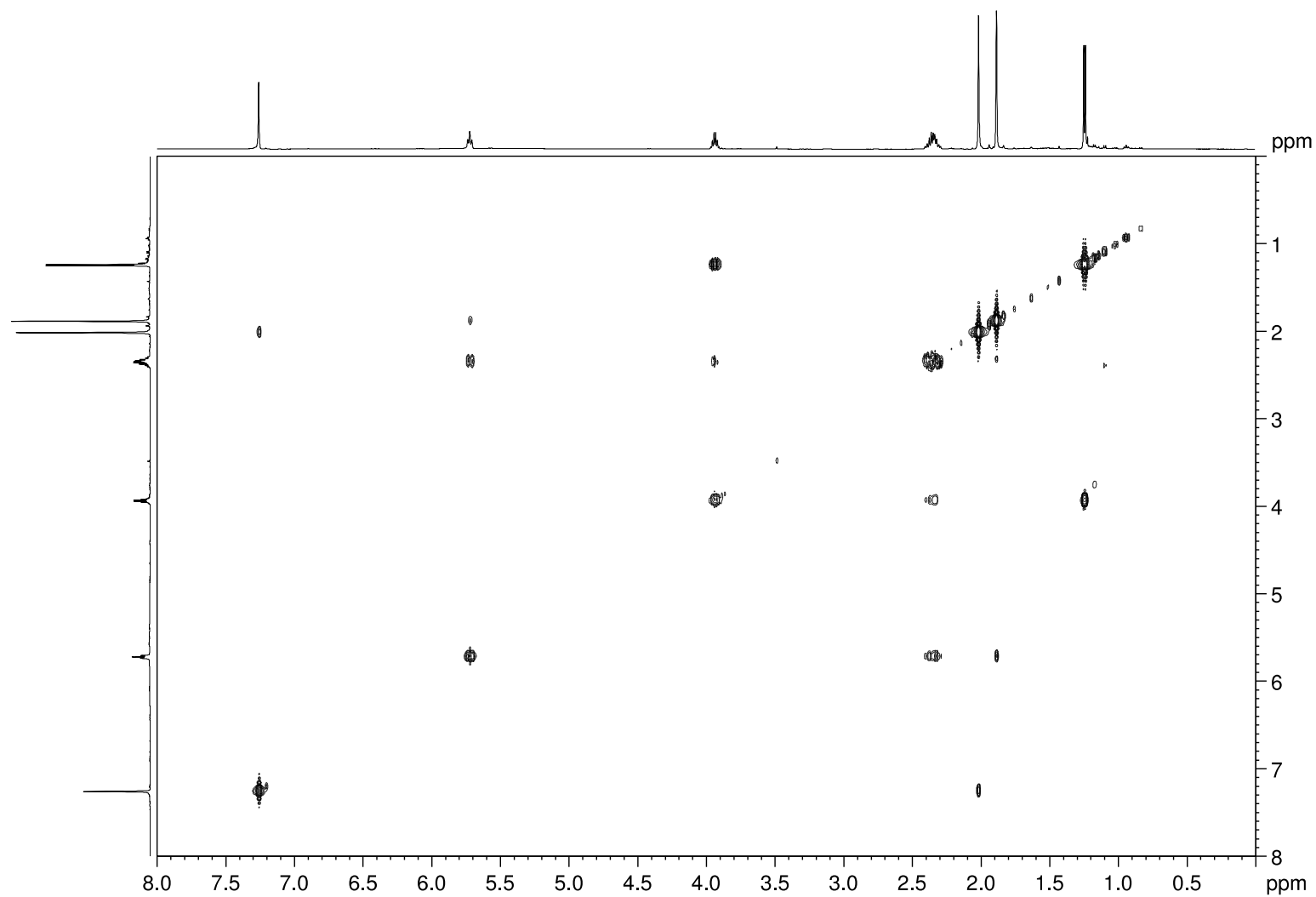


Figure S22. HSQC spectrum of **4** (500 MHz, CDCl₃).

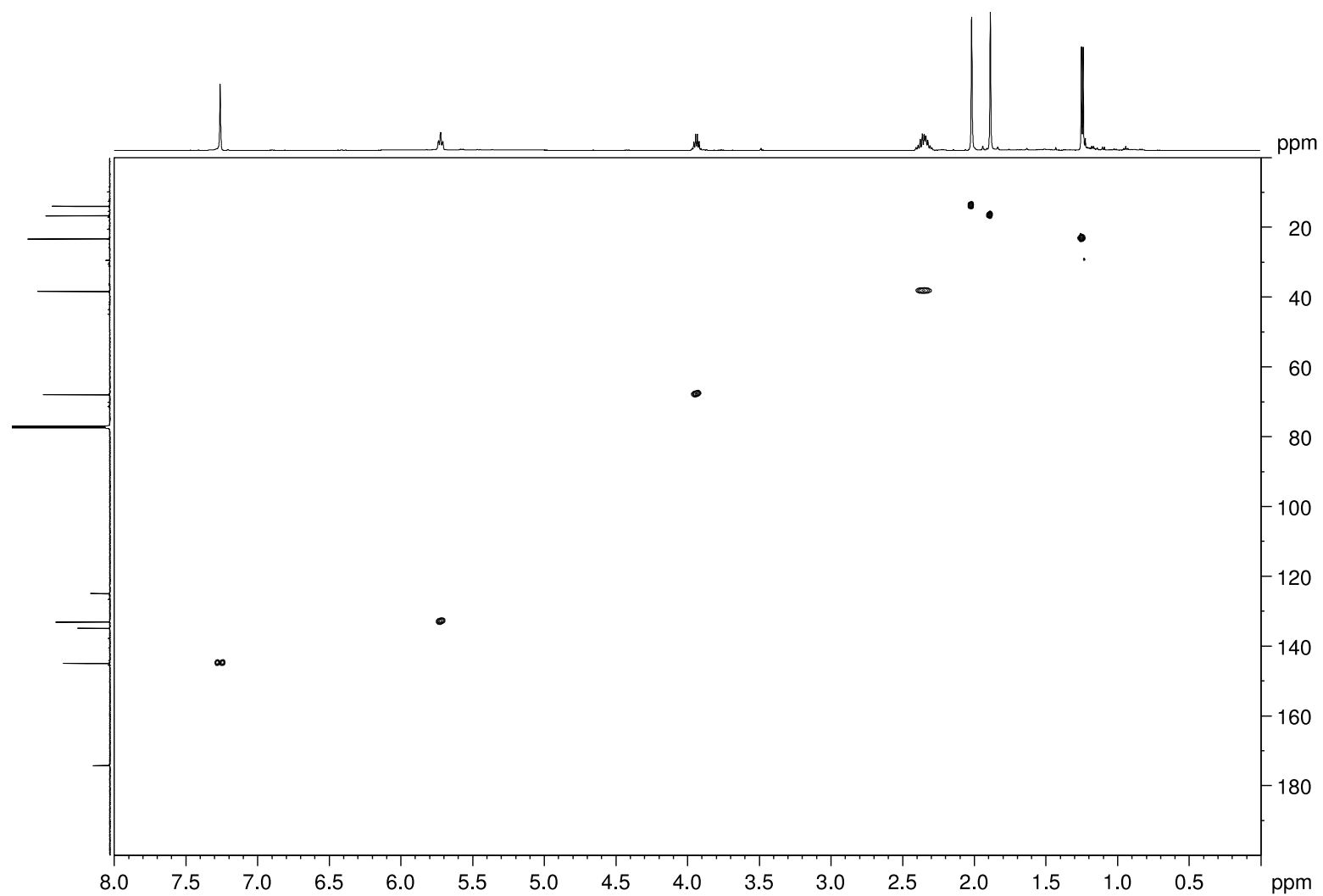


Figure S23. HMBC spectrum of **4** (500 MHz, CDCl₃).

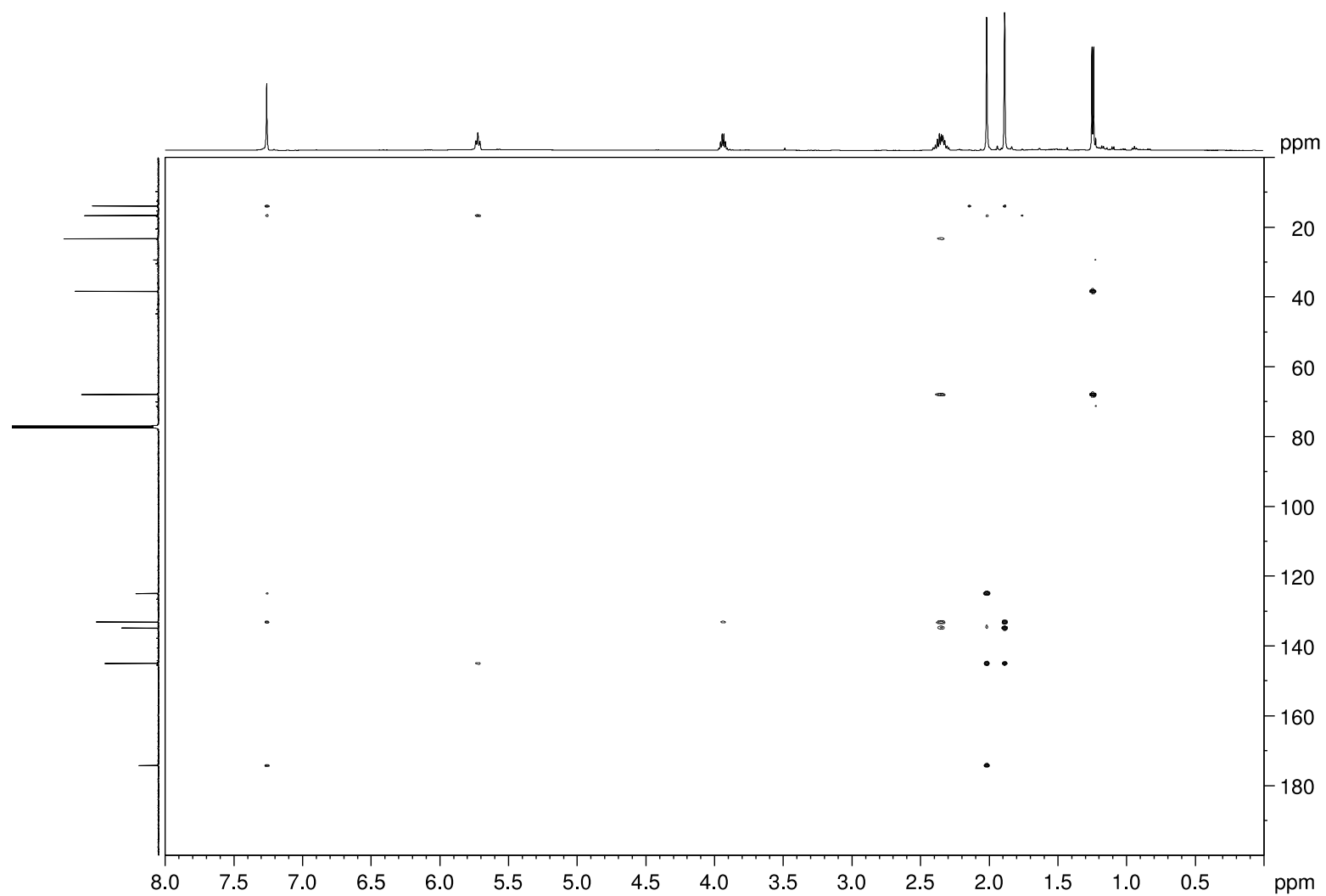


Figure S24. NOESY spectrum of **4** (500 MHz, CDCl₃).

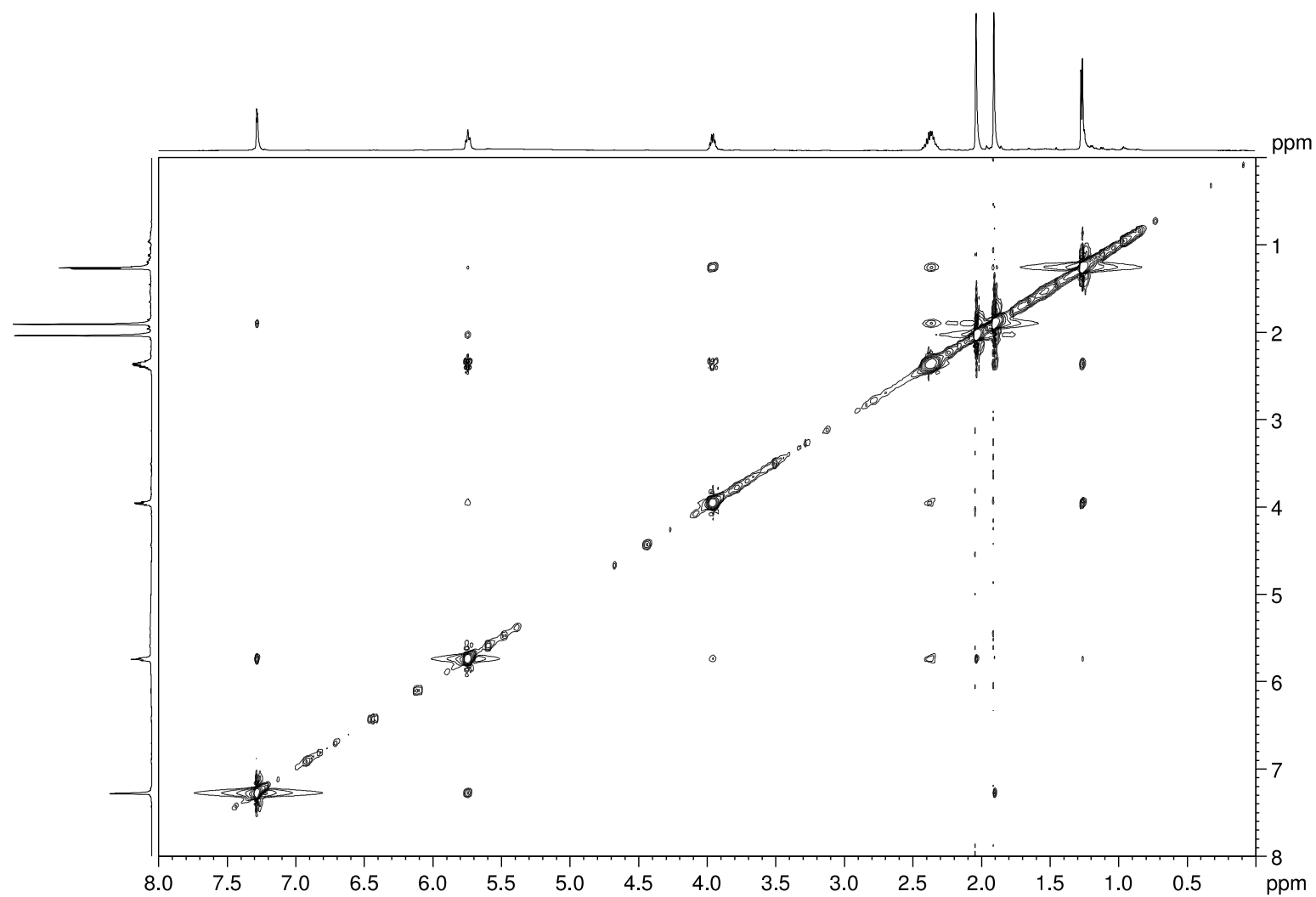


Figure S25. ^1H - ^1H COSY spectrum of **4'a** (500 MHz, CDCl_3).

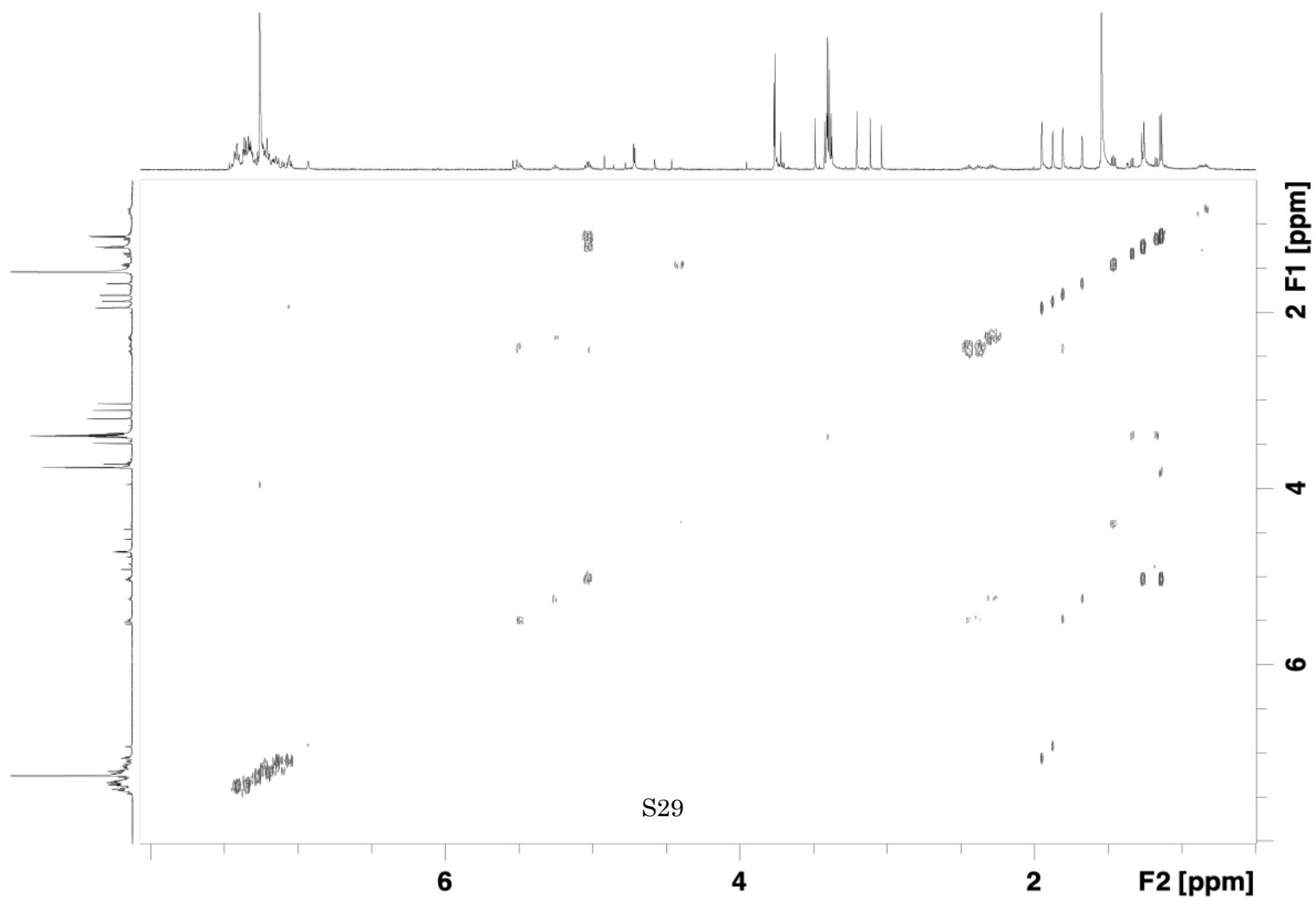


Figure S26. ^1H - ^1H COSY spectrum of **4'b** (500 MHz, CDCl_3).

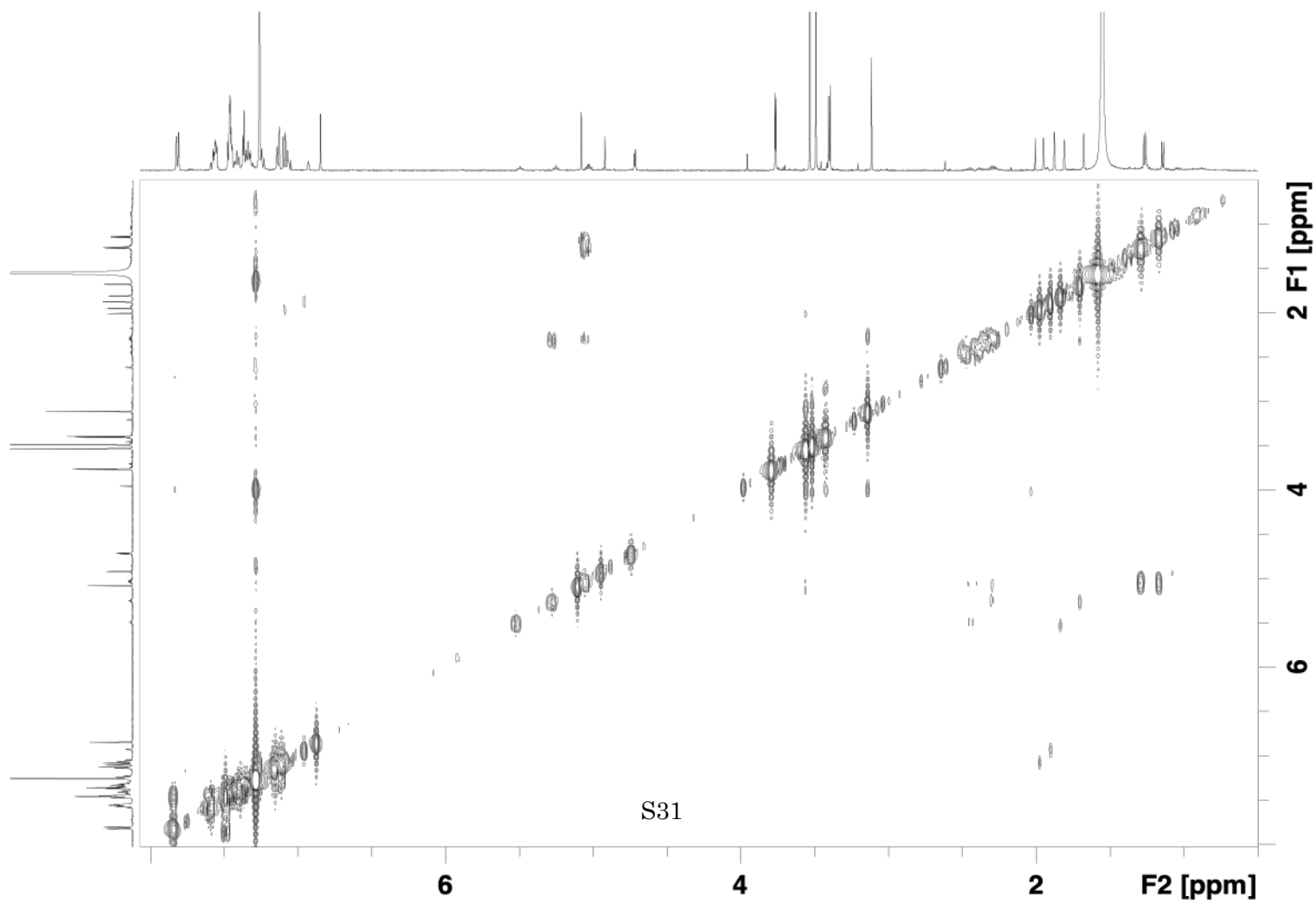


Figure S27. ^1H NMR spectrum of compound **5** (500 MHz, CDCl_3).

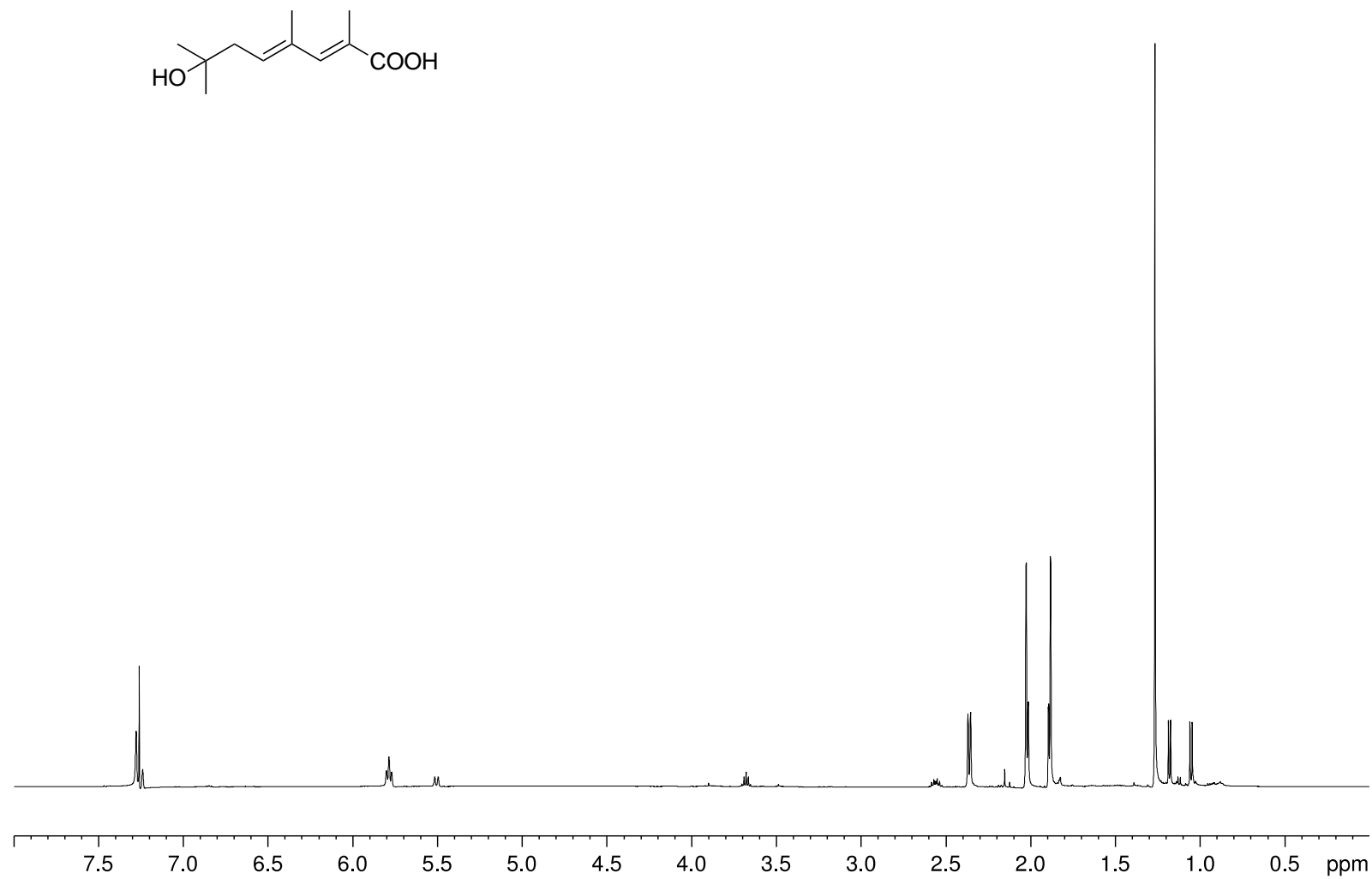


Figure S28. ^{13}C NMR spectrum of **5** (125 MHz, CDCl_3).

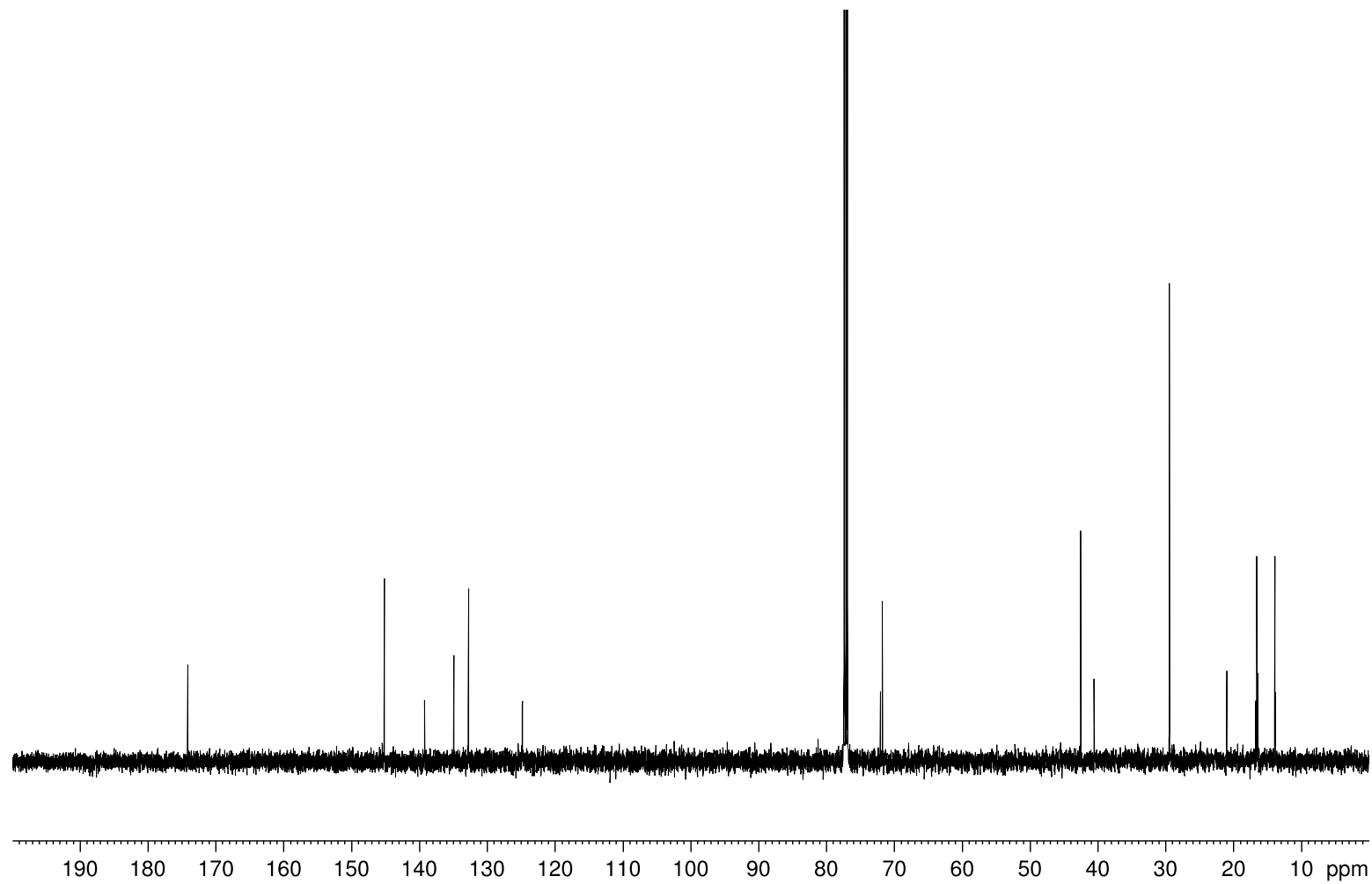


Figure S29. ^1H - ^1H COSY spectrum of **5** (500 MHz, CDCl_3).

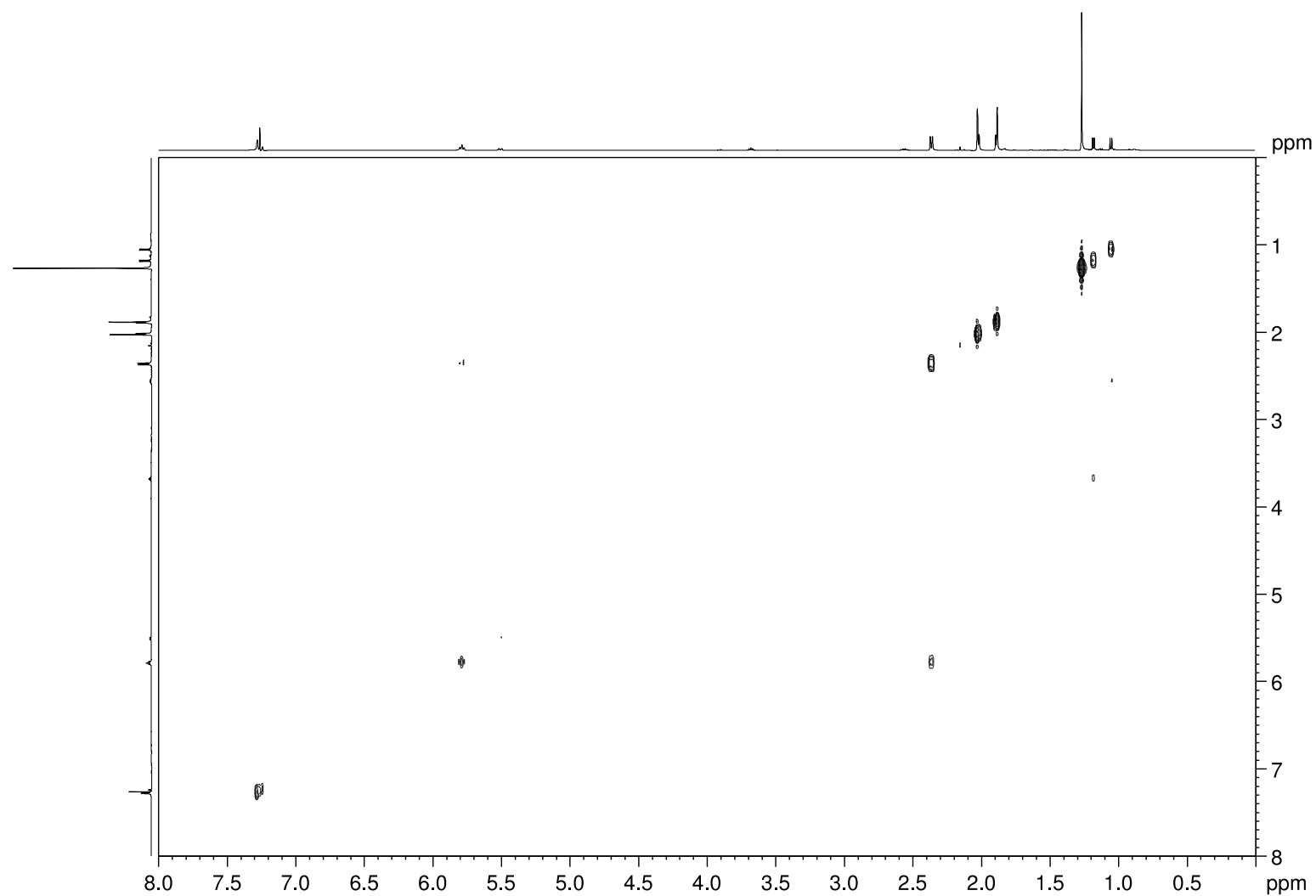


Figure S30. HSQC spectrum of **5** (500 MHz, CDCl₃).

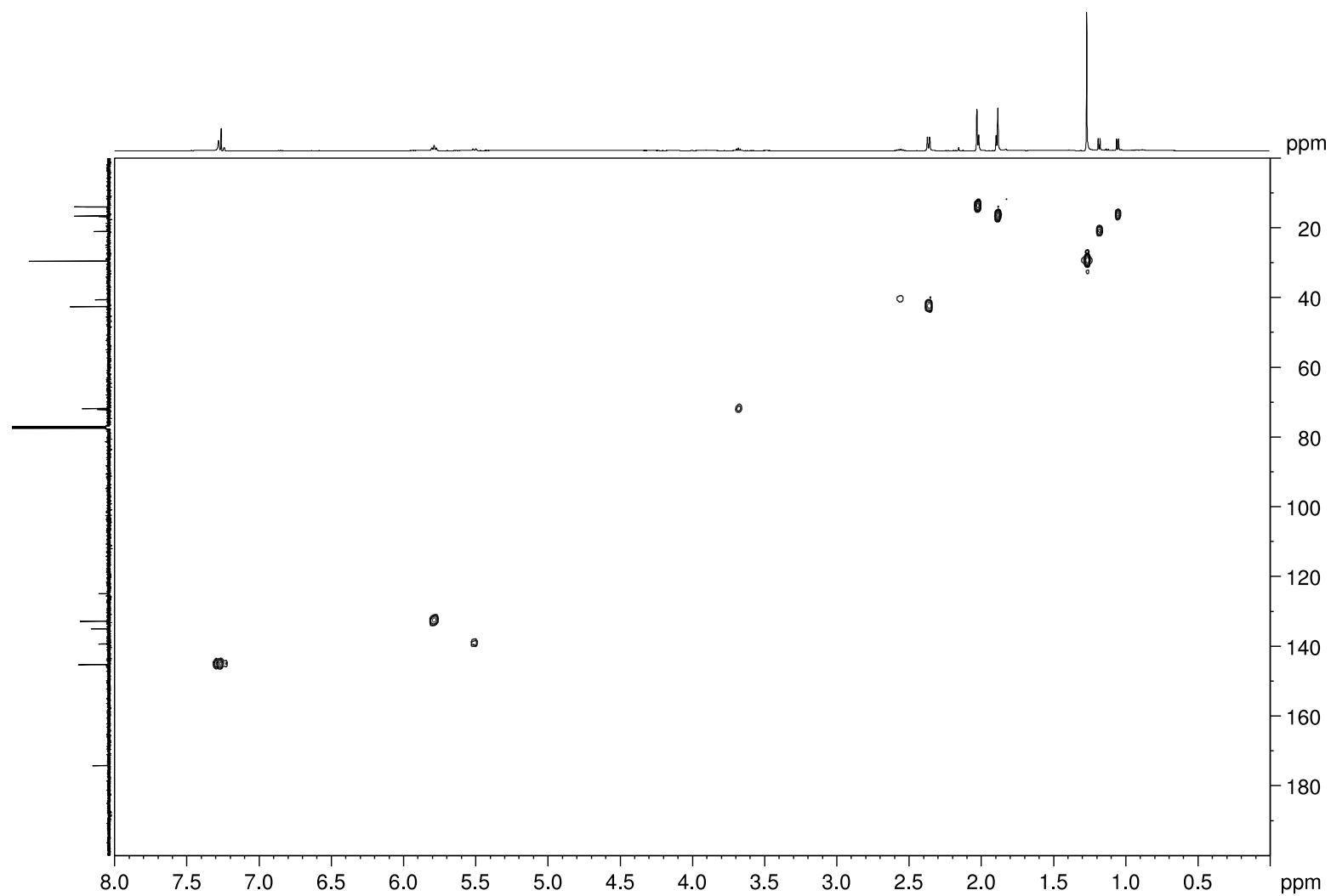


Figure S31. HMBC spectrum of **5** (500 MHz, CDCl₃).

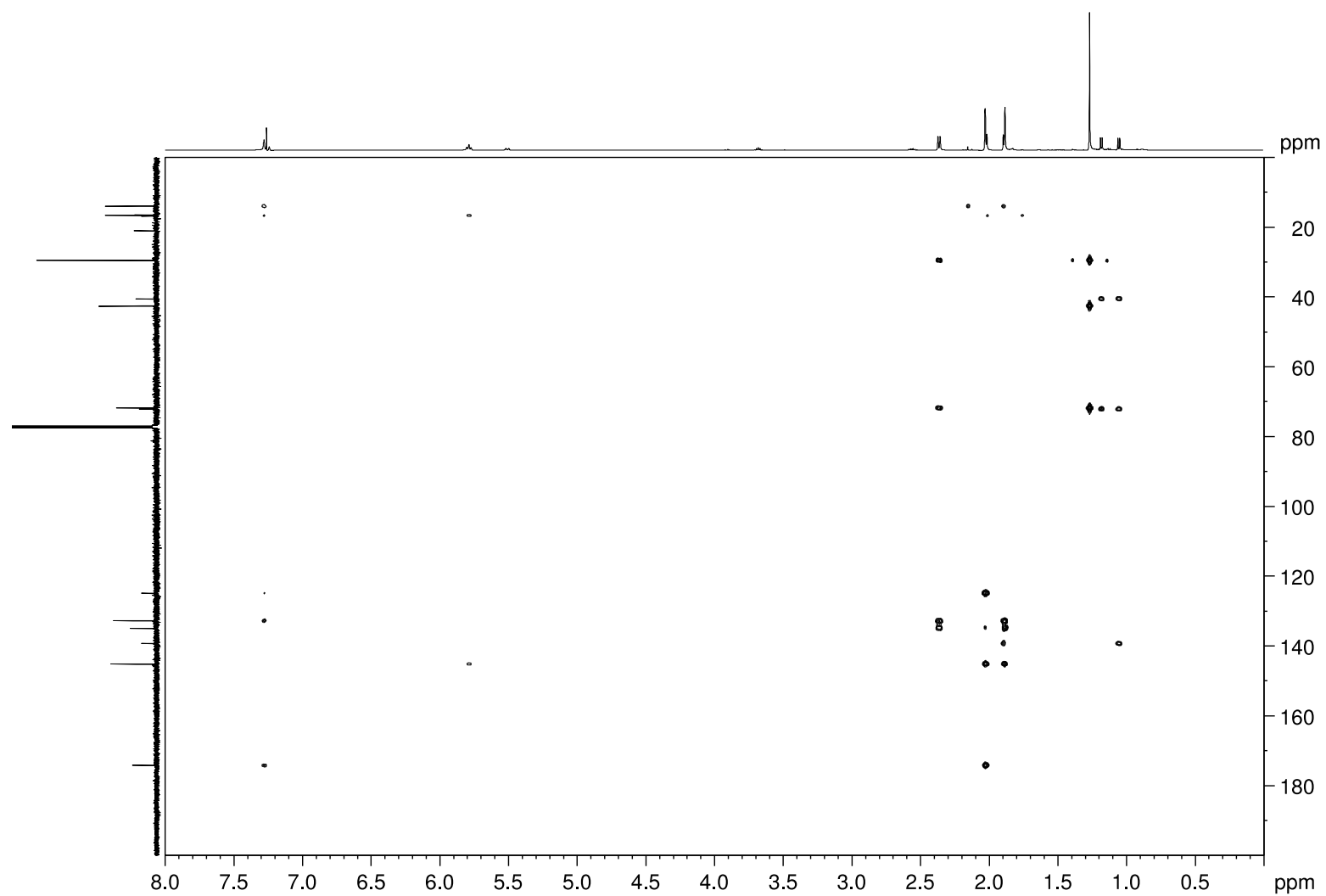


Figure S32. NOESY spectrum of **5** (500 MHz, CDCl₃).

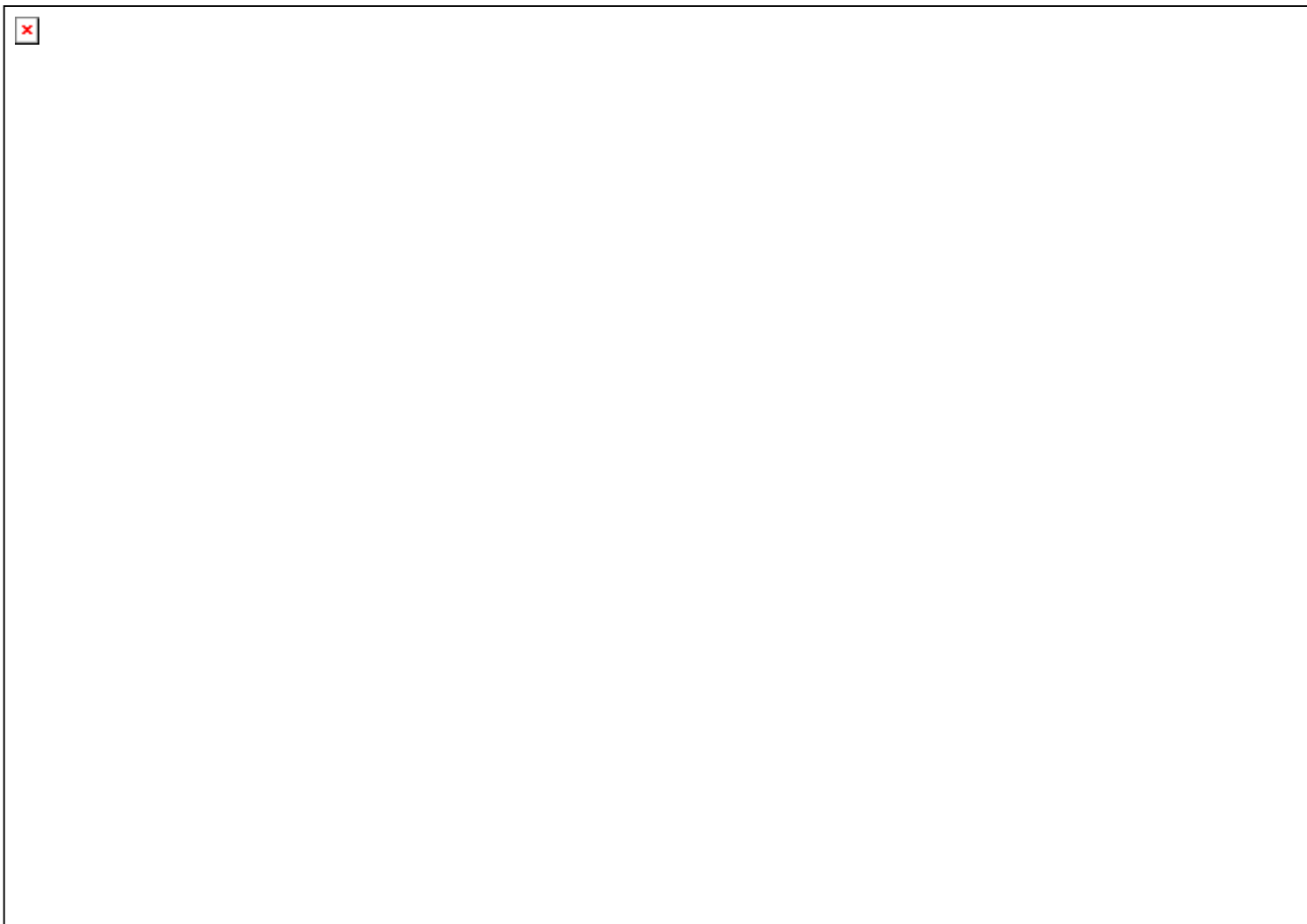


Figure S33. ^1H NMR spectrum of compound **6** (500 MHz, CDCl_3).

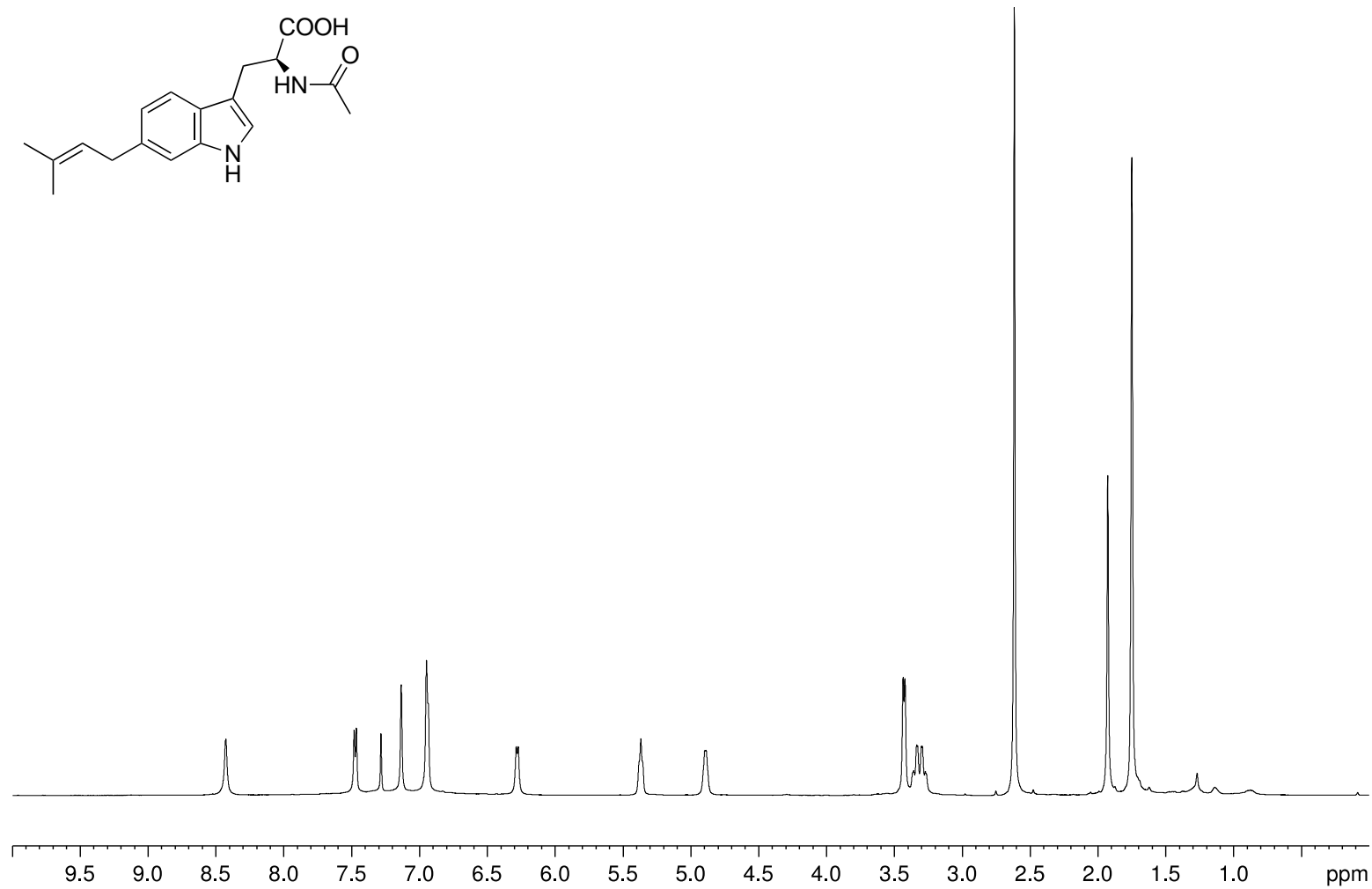


Figure S34. ^{13}C NMR spectrum of **6** (125 MHz, CDCl_3).

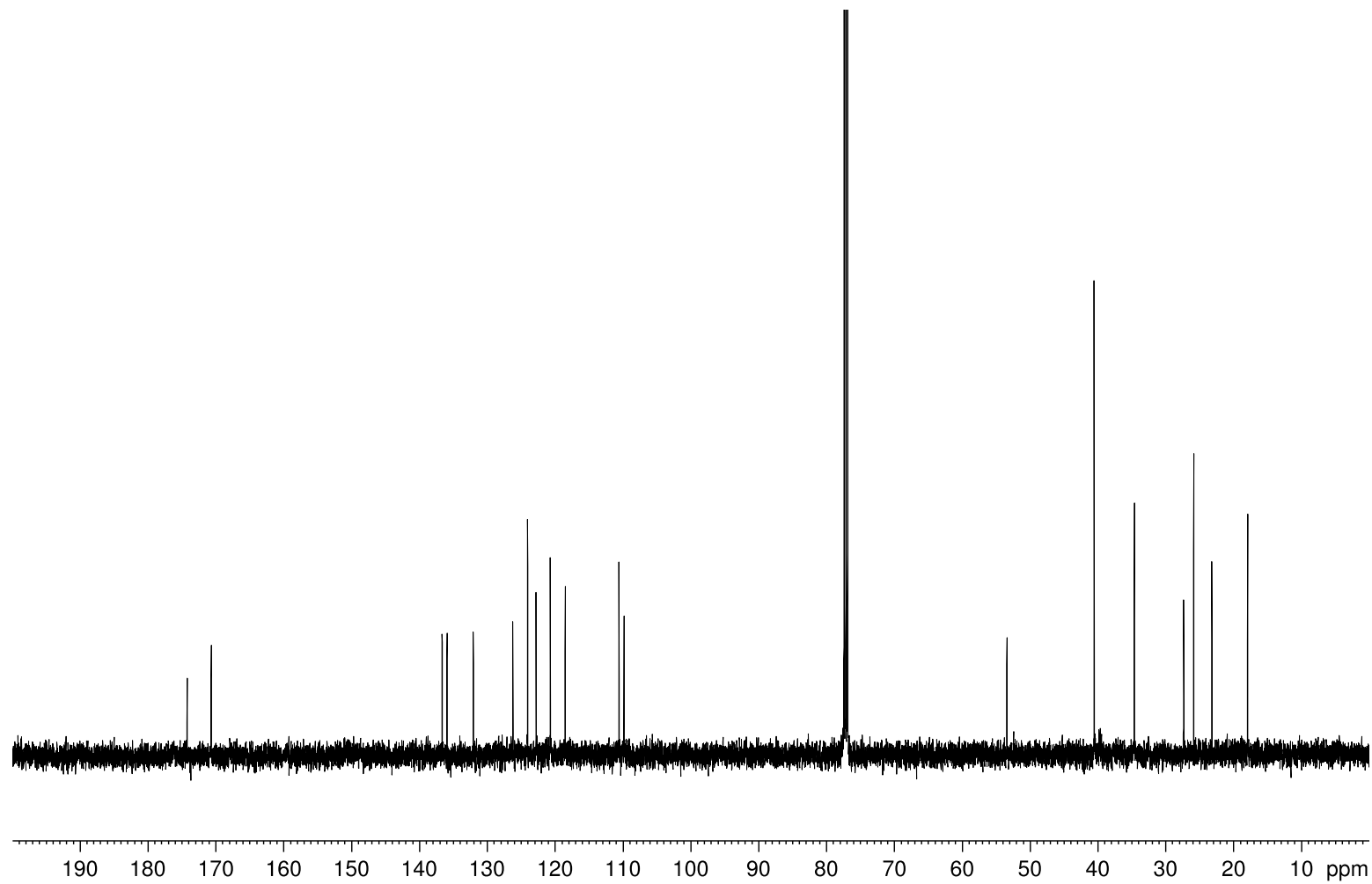


Figure S35. ^1H - ^1H COSY spectrum of **6** (500 MHz, CDCl_3).

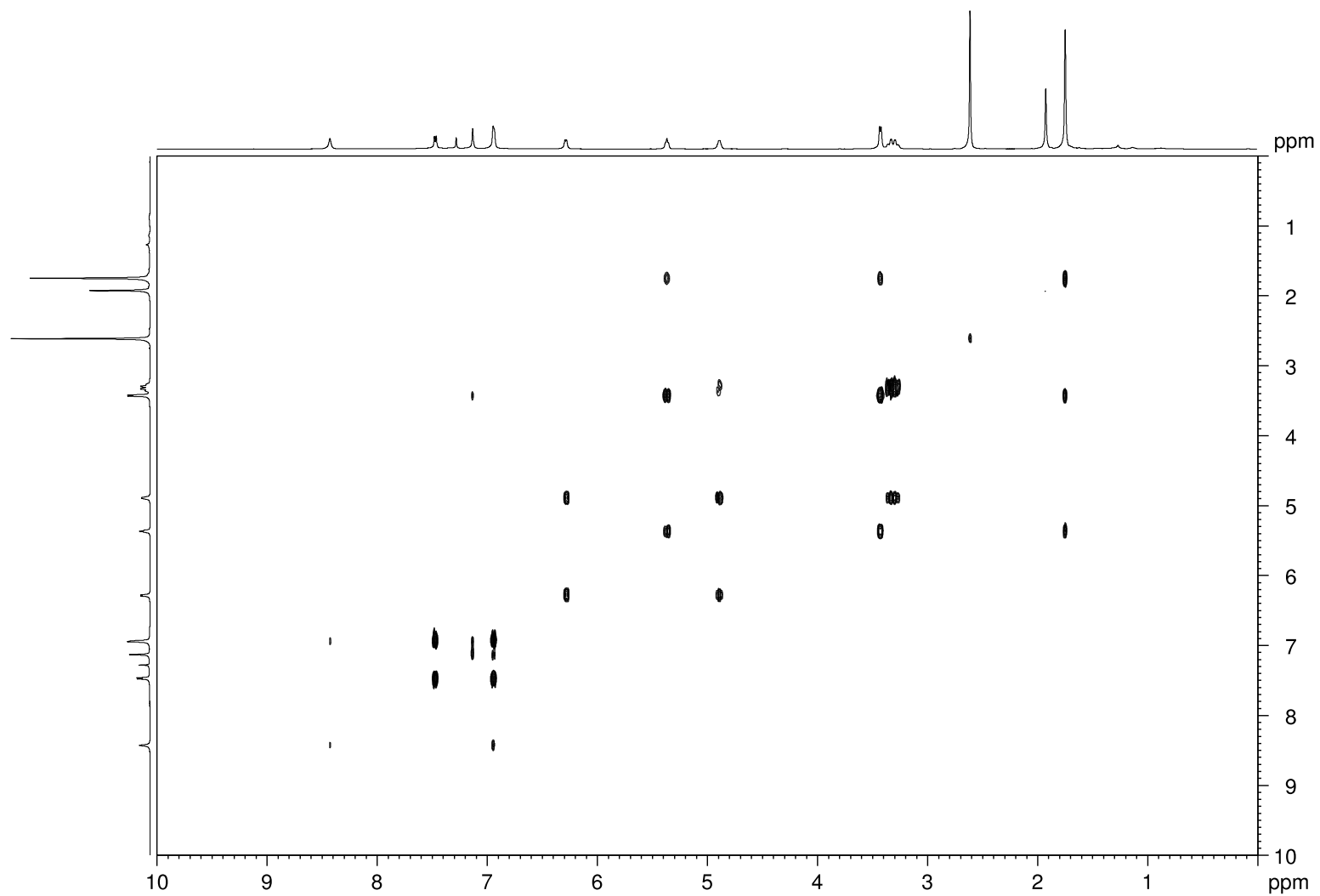


Figure S36. HSQC spectrum of **6** (500 MHz, CDCl₃).

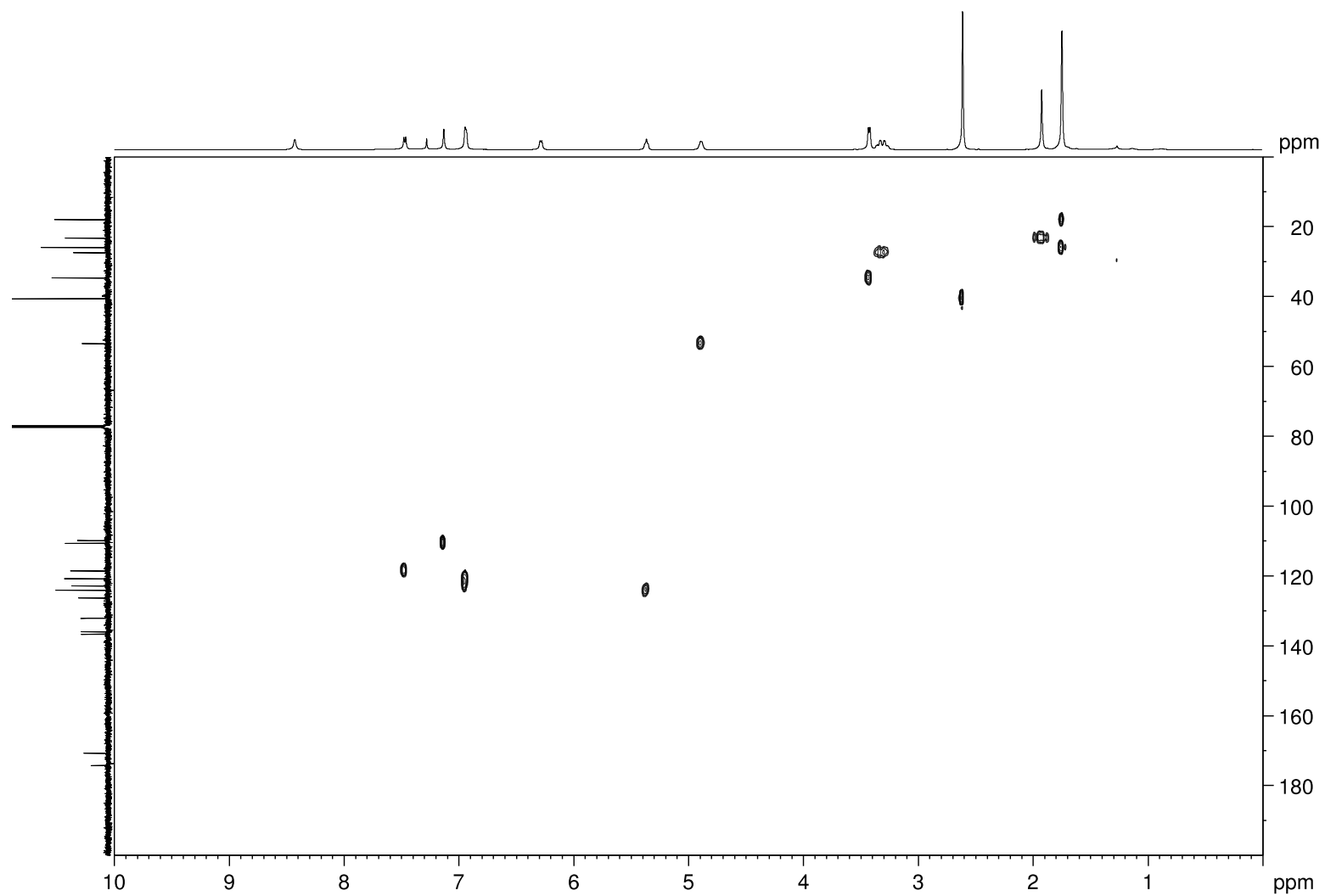


Figure S37. HMBC spectrum of **6** (500 MHz, CDCl₃).

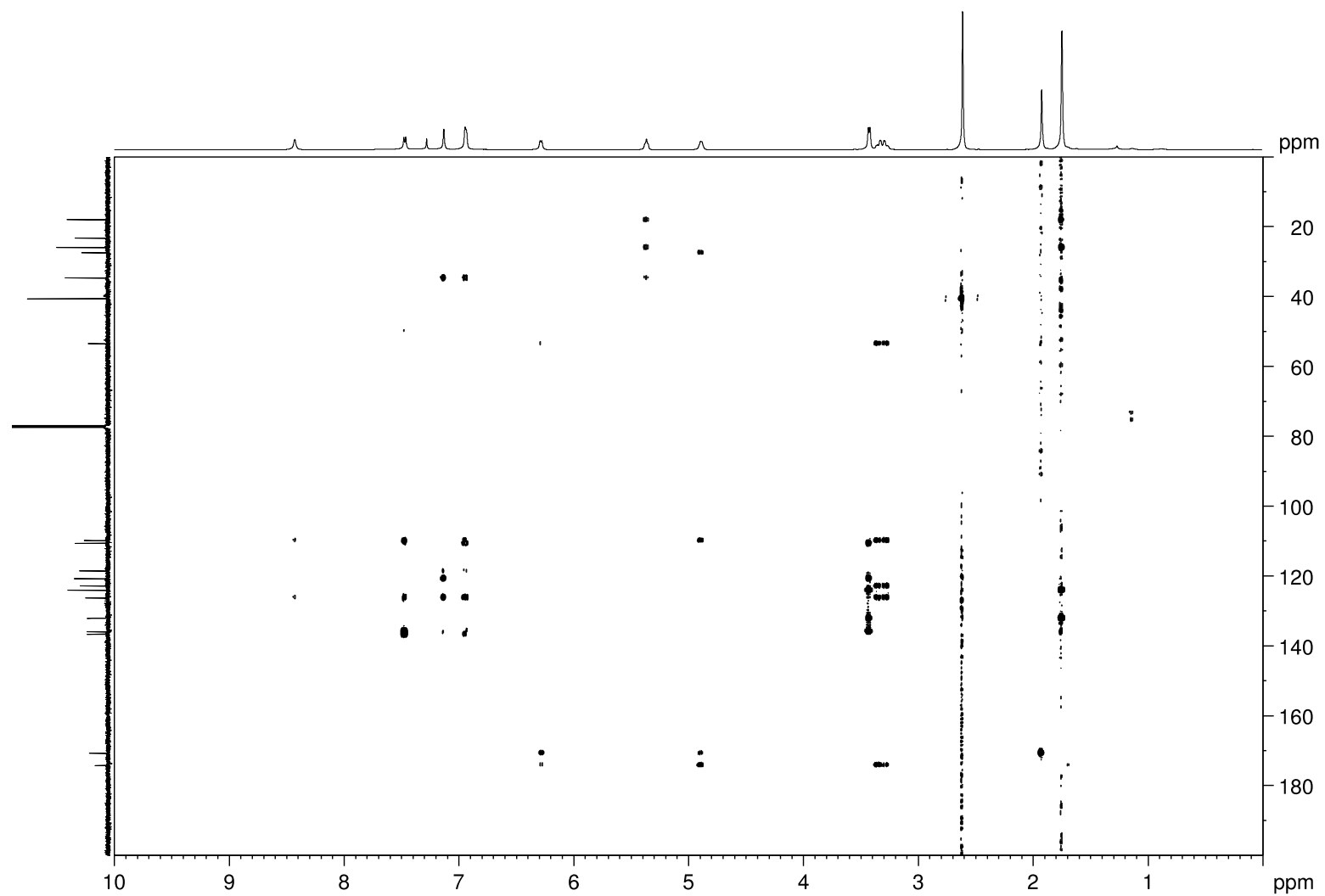


Figure S38. ^1H NMR spectrum of **6a** (500 MHz, $\text{DMSO-}d_6$).

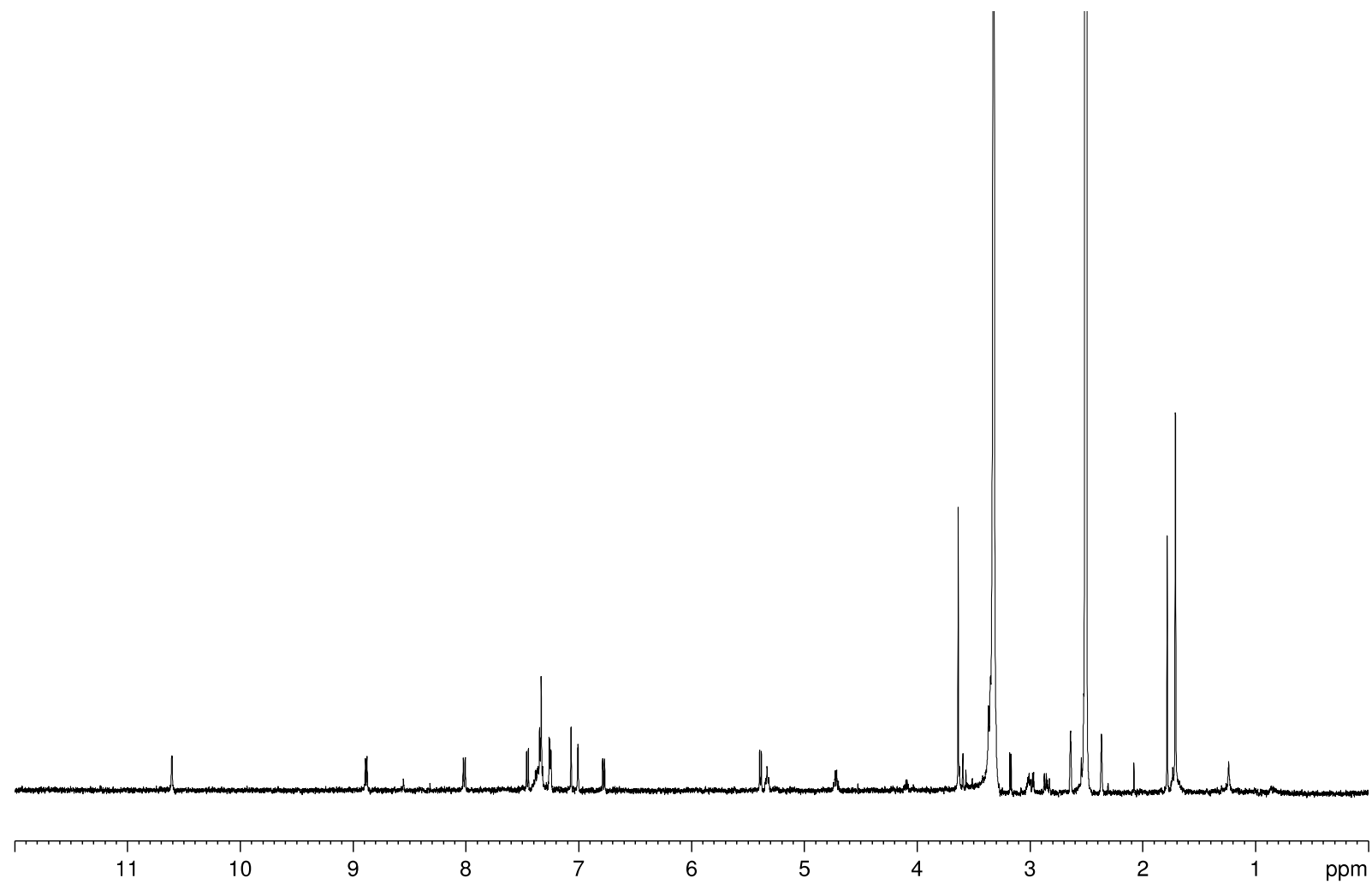


Figure S39. ^1H - ^1H COSY spectrum of **6a** (500 MHz, $\text{DMSO-}d_6$).

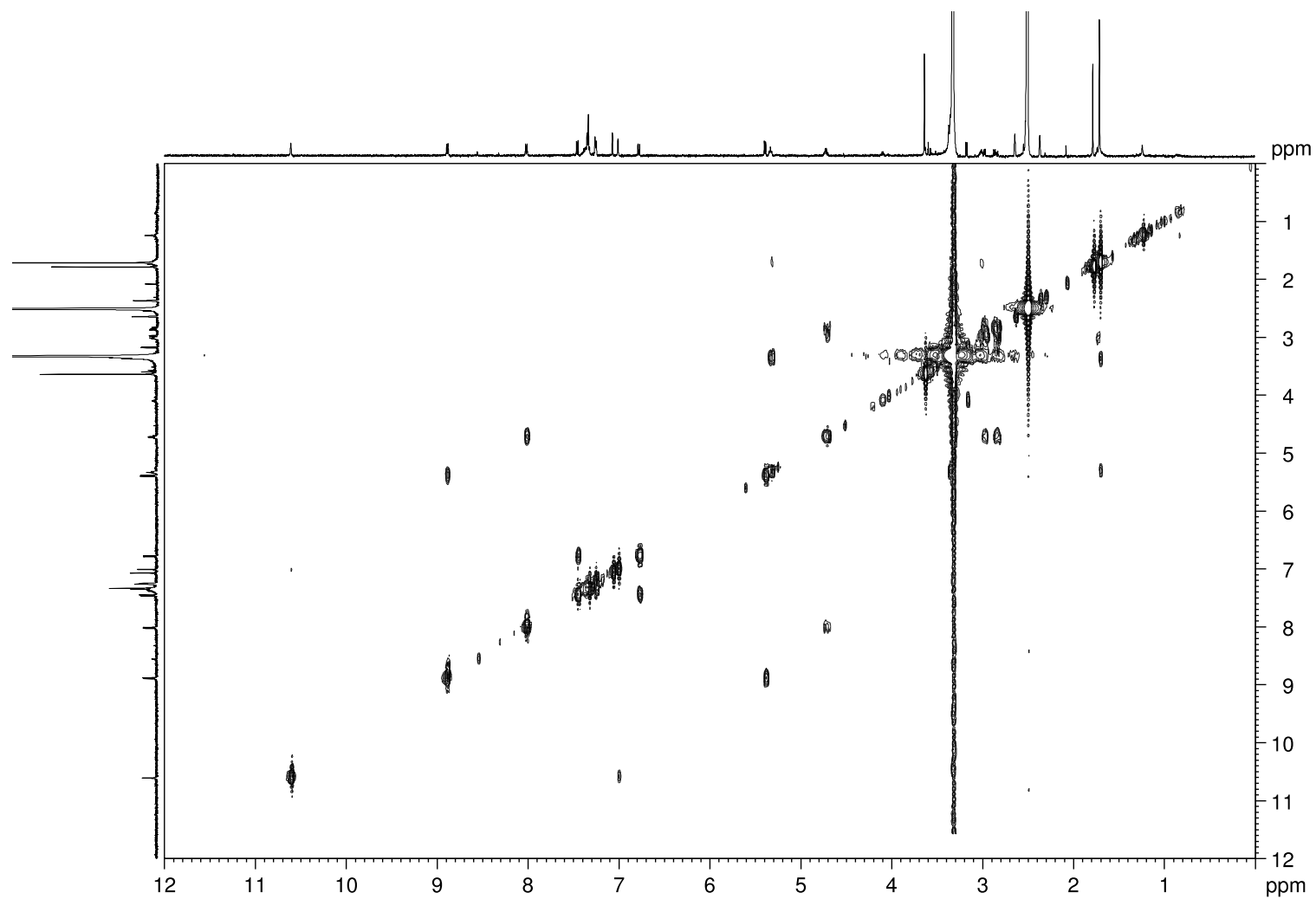


Figure S40. HSQC spectrum of **6a** (500 MHz, DMSO- d_6).

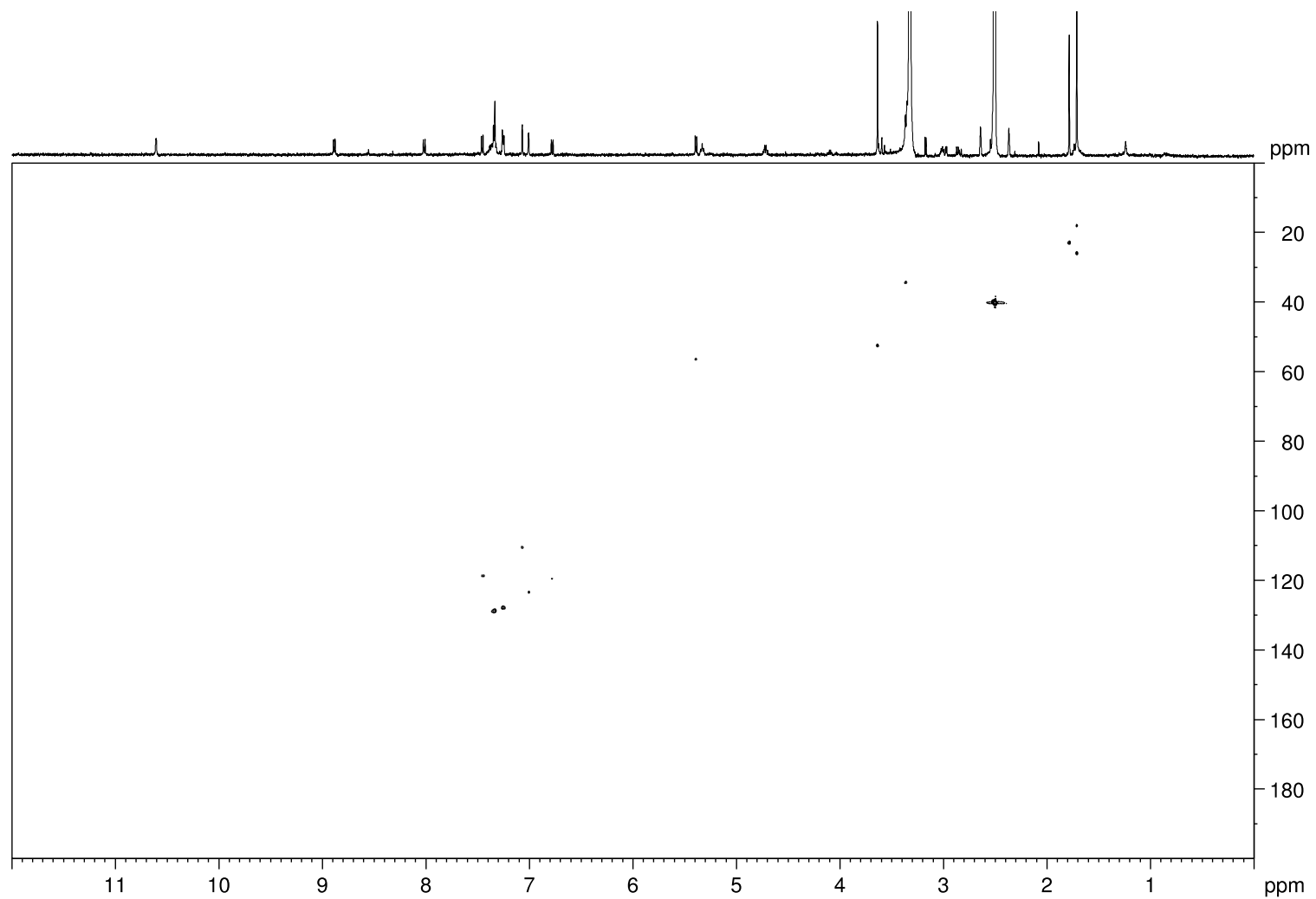


Figure S41. HMBC spectrum of **6a** (500 MHz, DMSO- d_6).

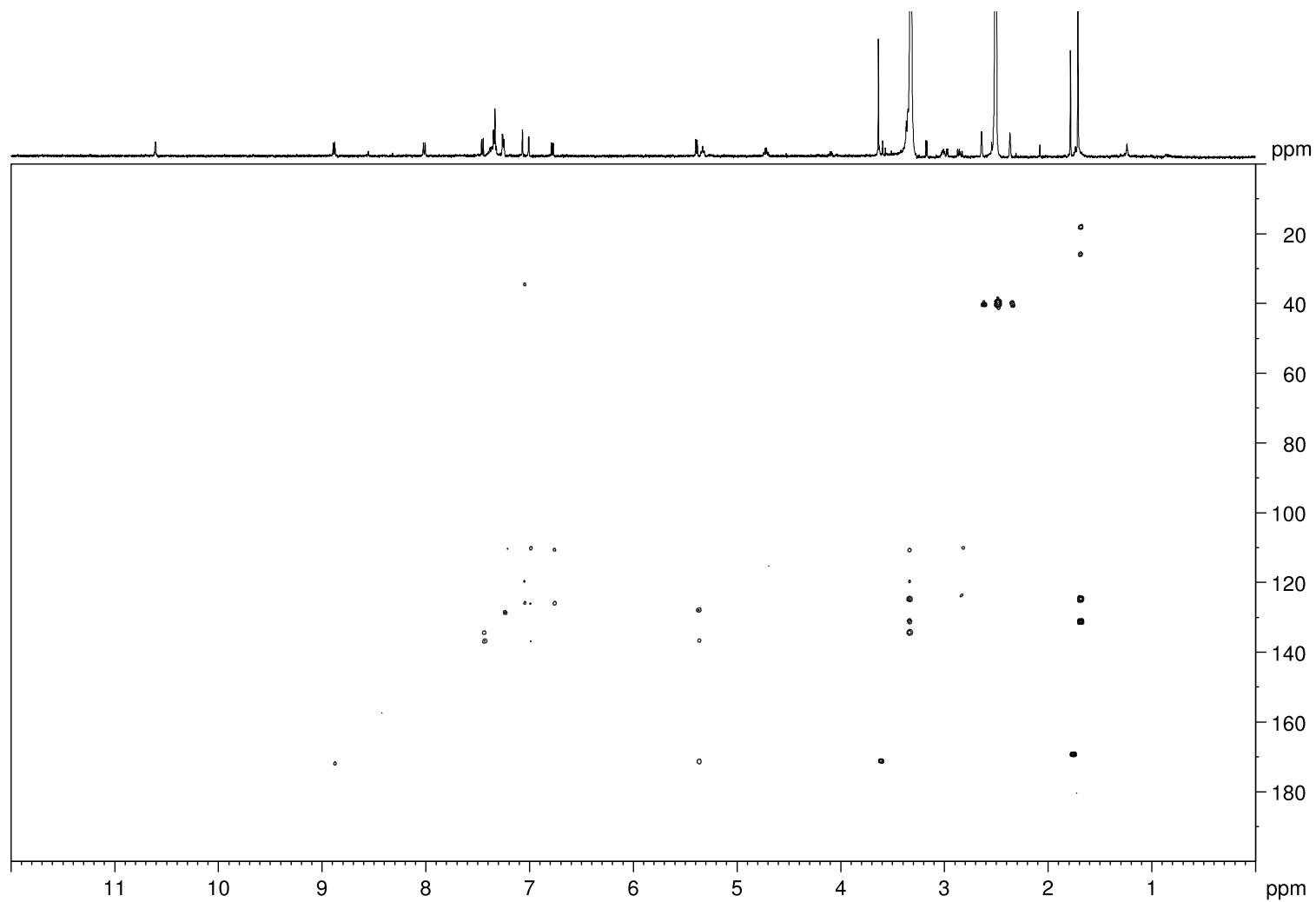


Figure S42. ^1H NMR spectrum of **6b** (500 MHz, $\text{DMSO}-d_6$).

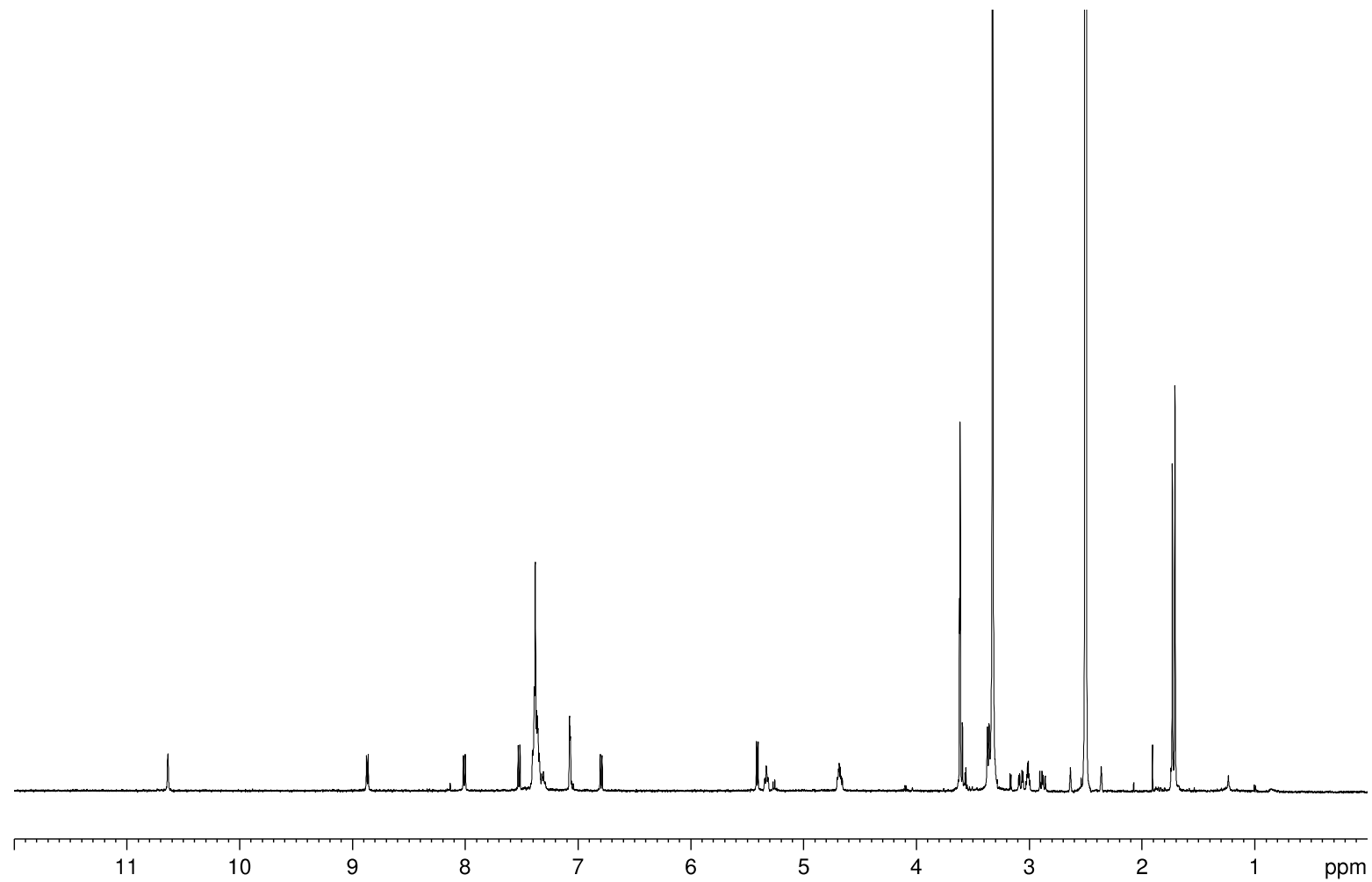


Figure S43. ^1H - ^1H COSY spectrum of **6b** (500 MHz, $\text{DMSO-}d_6$).

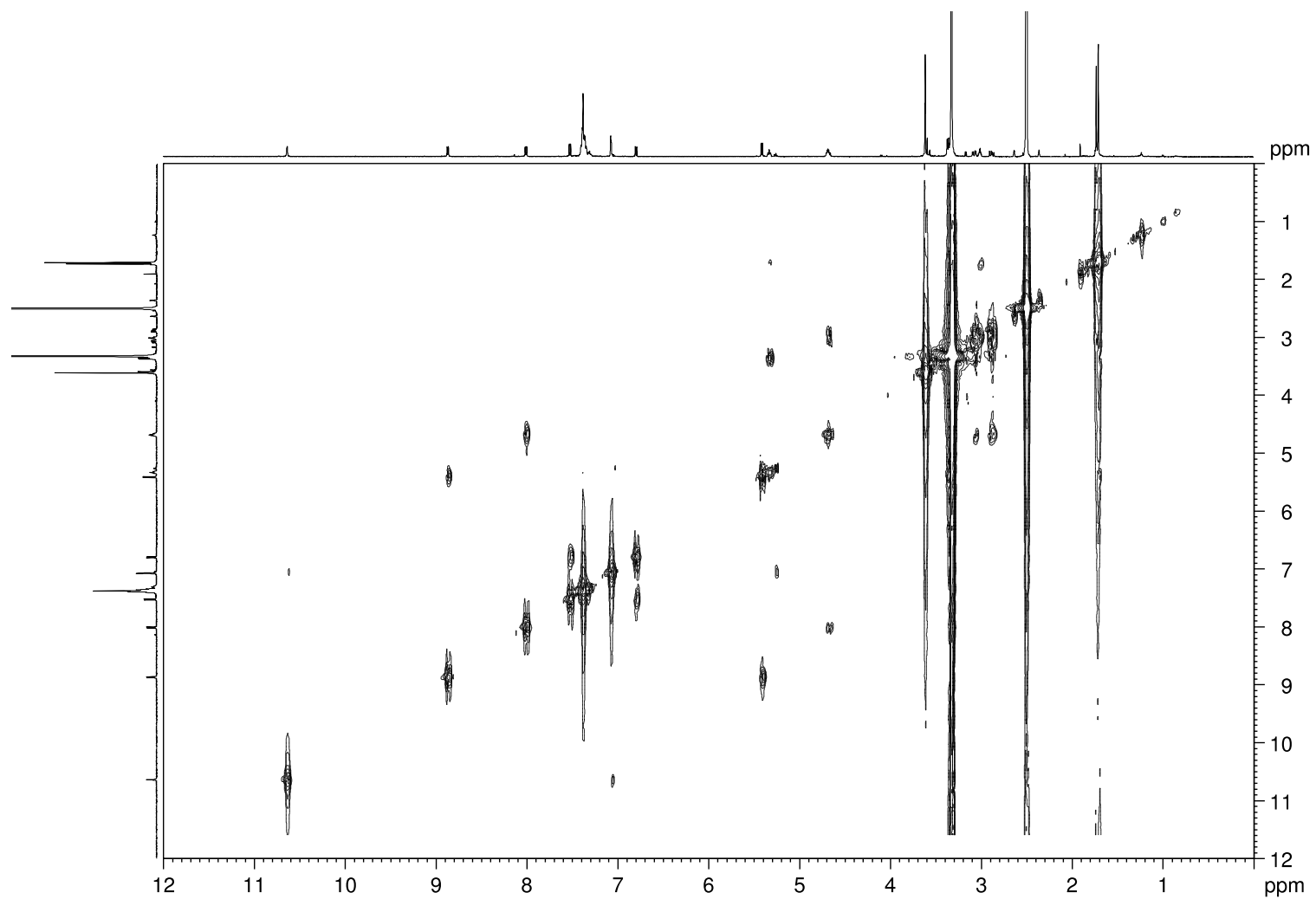


Figure S44. HSQC spectrum of **6b** (500 MHz, DMSO- d_6).

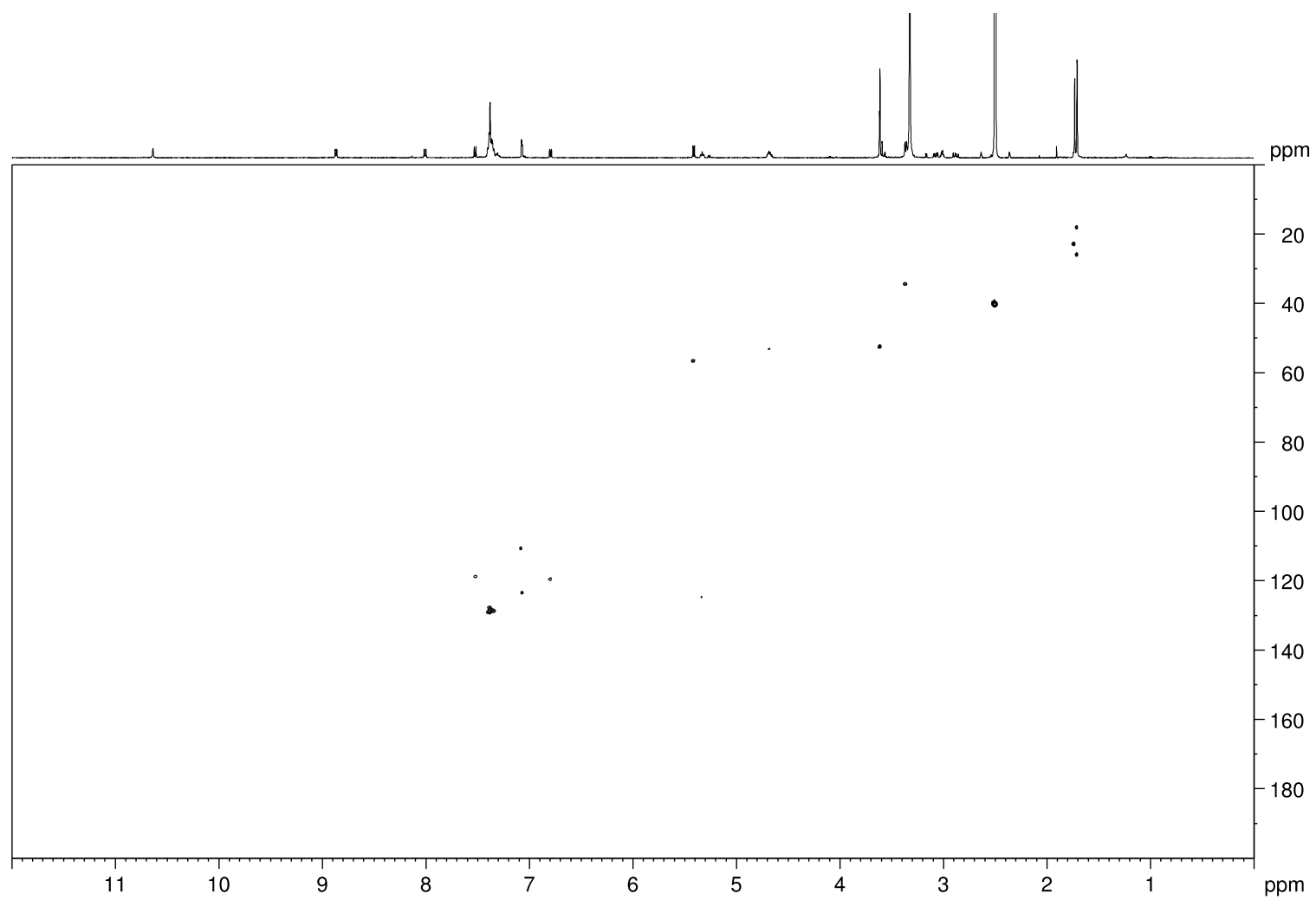


Figure S45. HMBC spectrum of **6b** (500 MHz, DMSO-*d*₆).

