Supporting Information for:

A Study of Antioxidant Properties and a Pharmacokinetic Investigation of Chalcones and Pyrazolines

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Table S1. Bioavailability results determined by Lipinski, Ghose, Veber, Egan and Muegge.

COMPOUND	NRBs	LIPINSKI	GHOSE	VEBER	EGAN	MUEGGE	BIOVABILITY
1a	3	Yes; 0 violations	No	No	No	No	0.55
1b	3	Yes; 0 violations	No	No	No	No	0.55
1c	3	Yes; 0 violations	No	No	No	No	0.55
2a	3	Yes; 0 violations	No	No	No	No	0.55
2b	3	Yes; 0 violations	No	No	No	No	0.55
2c	3	Yes; 0 violations	No	No	No	No	0.55
2d	3	Yes, 1 violation	No	No	No	No, 1 violation	0.55

Table S2. Warning indications about false positive reactions (PAINS)

COMPOUND	PAINS
1a	No alert
1b	No alert
1c	No alert
2a	No alert
2b	1 alert: hzone_phenol_A
2c	No alert
2d	No alert

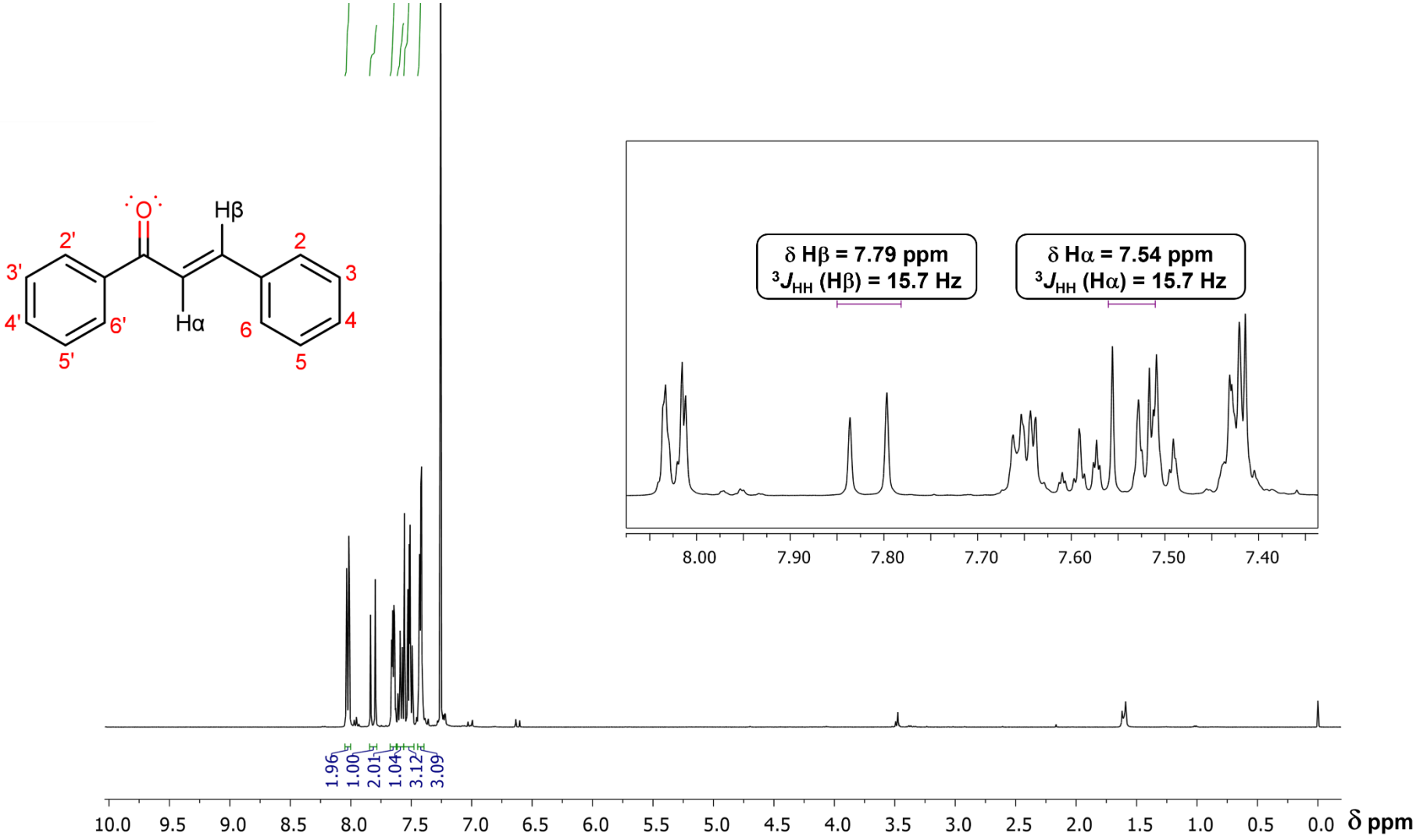

Figure S1. ^{1}H NMR spectrum (400 MHz, $CDCl_3$) of compound **1a.**

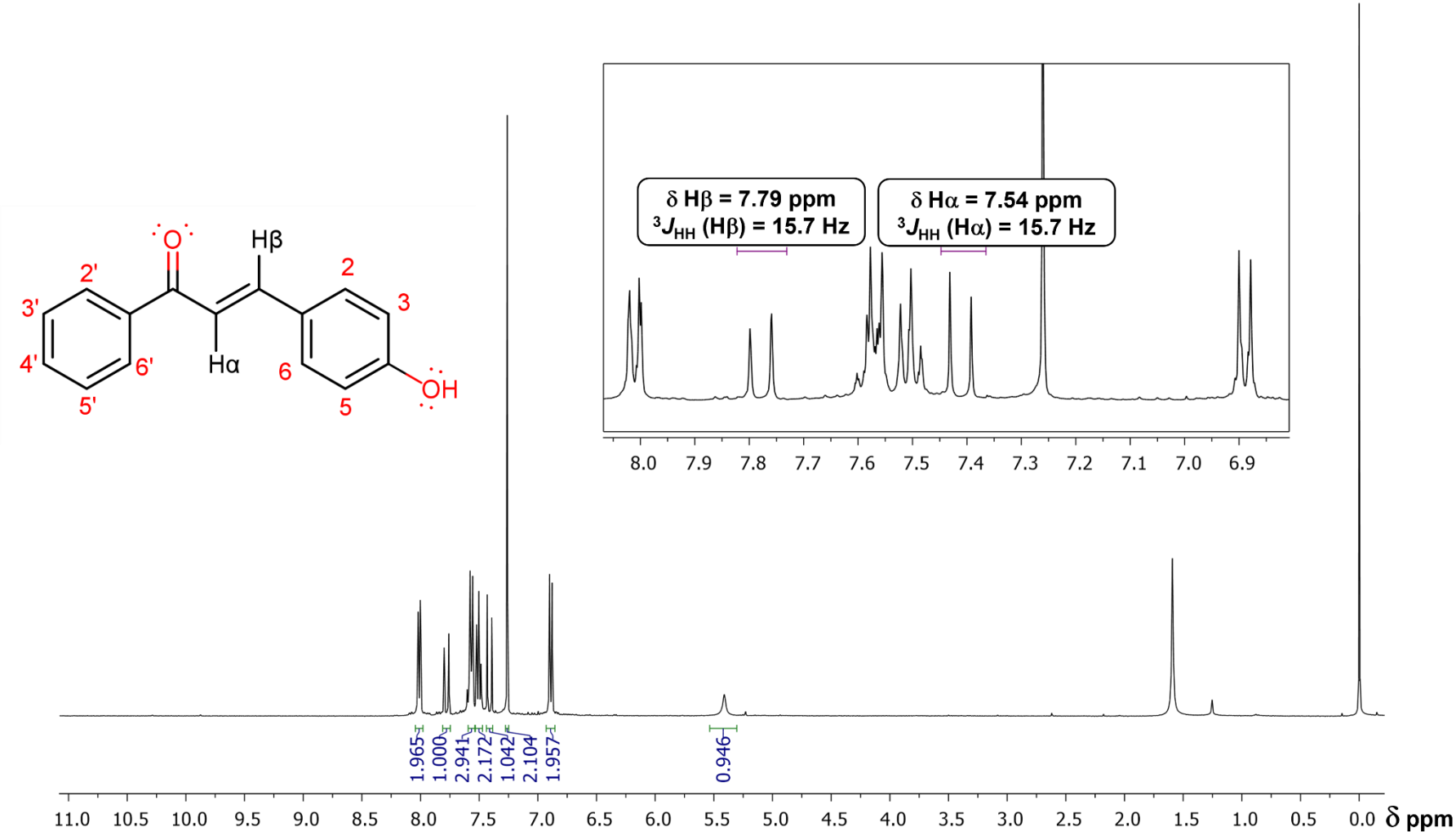

Figure S2. ^{1}H NMR spectrum (400 MHz, $CDCl_3$) of compound **1b.**

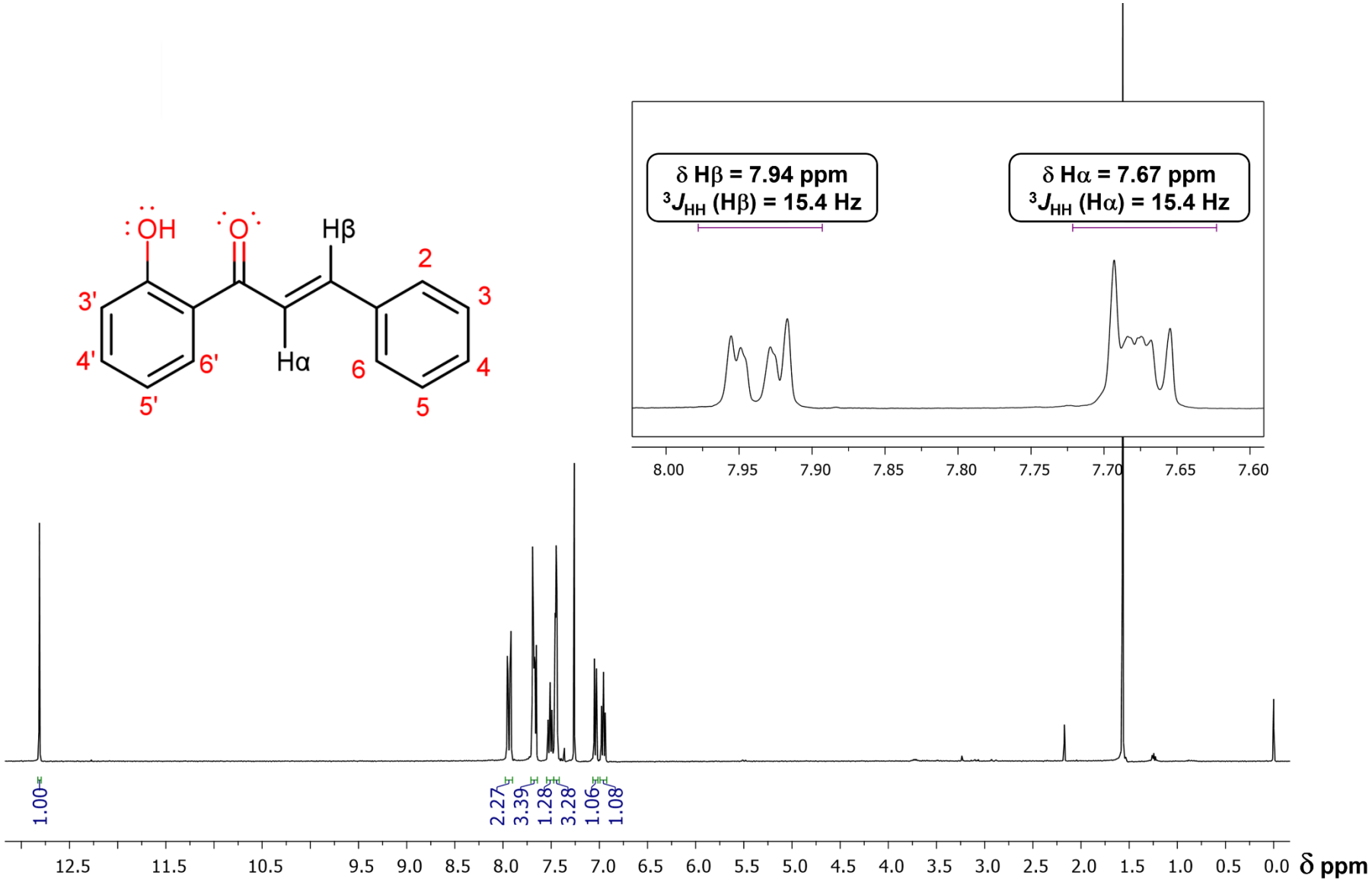

Figure S3. ^{1}H NMR spectrum (400 MHz, $CDCl_3$) of compound **1c.**

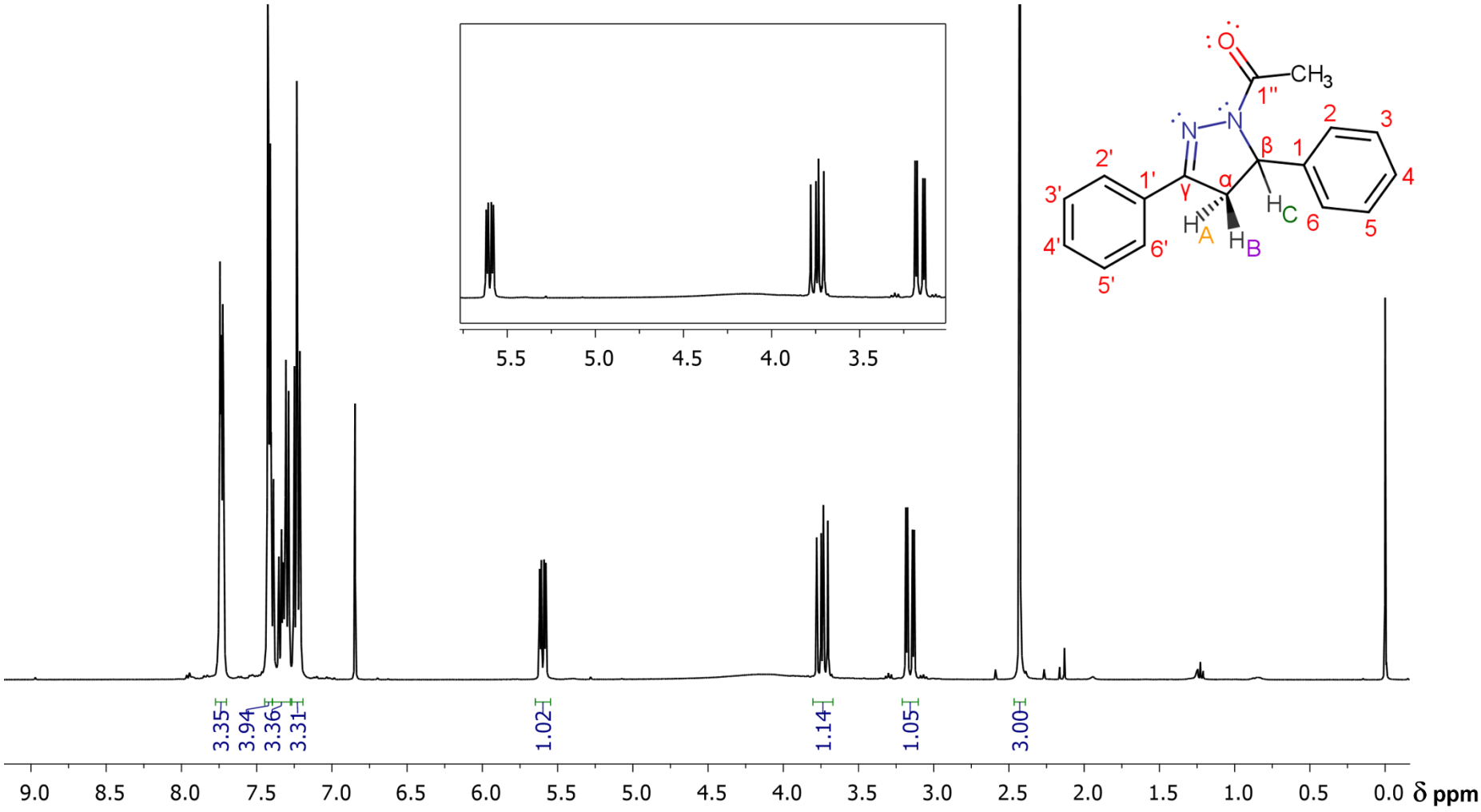

Figure S4. ^{1}H NMR spectrum (400 MHz, $CDCl_3$) of compound **2a.**

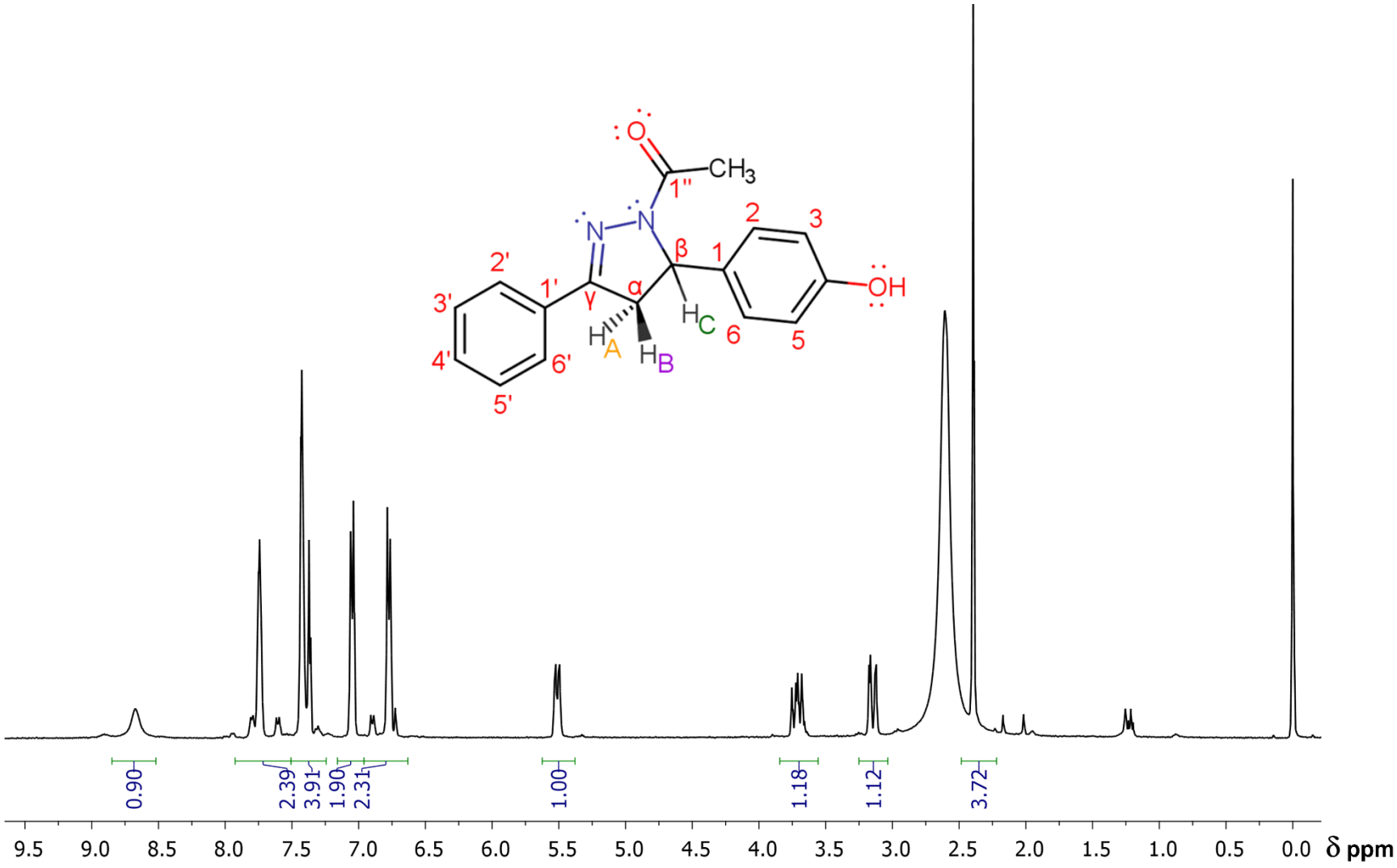

Figure S5. ^{1}H NMR spectrum (400 MHz, $CDCl_3$, DMSO-d_6) of compound **2b.**

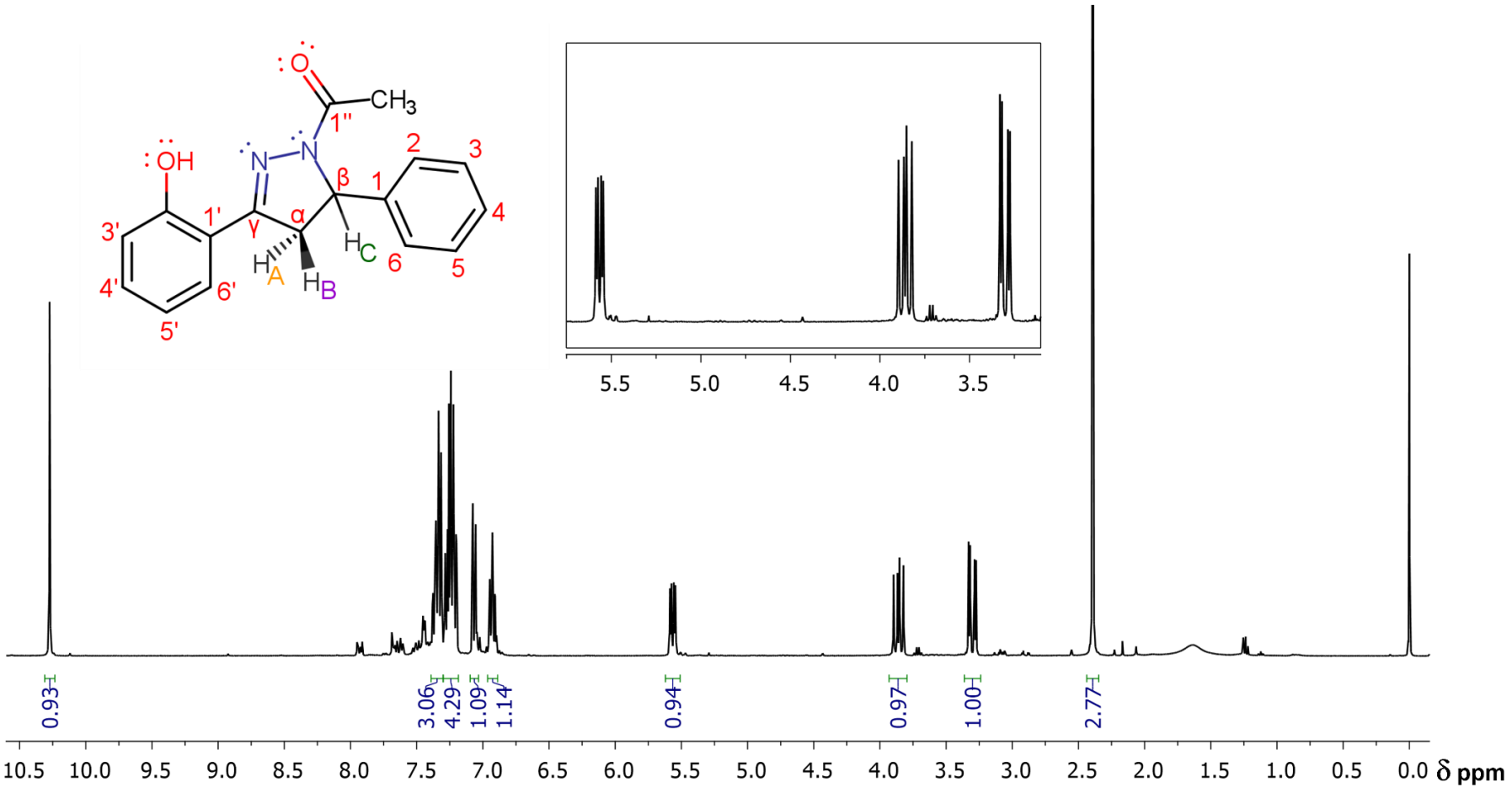

Figure S6. ^{1}H NMR spectrum (400 MHz, $CDCl_3$) of compound **2c.**

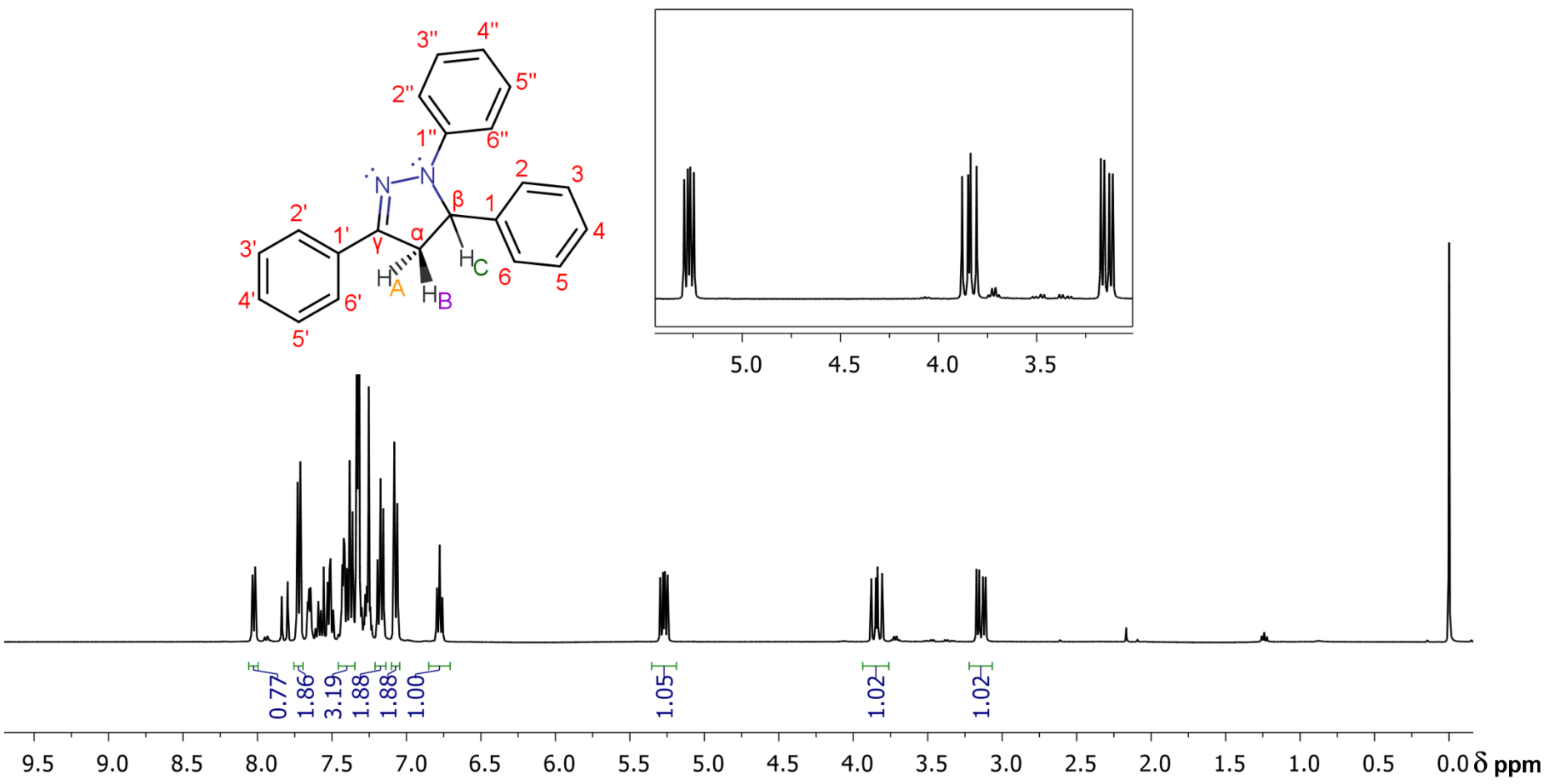

Figure S7. ^{1}H NMR spectrum (400 MHz, $CDCl_3$) of compound **3a.**

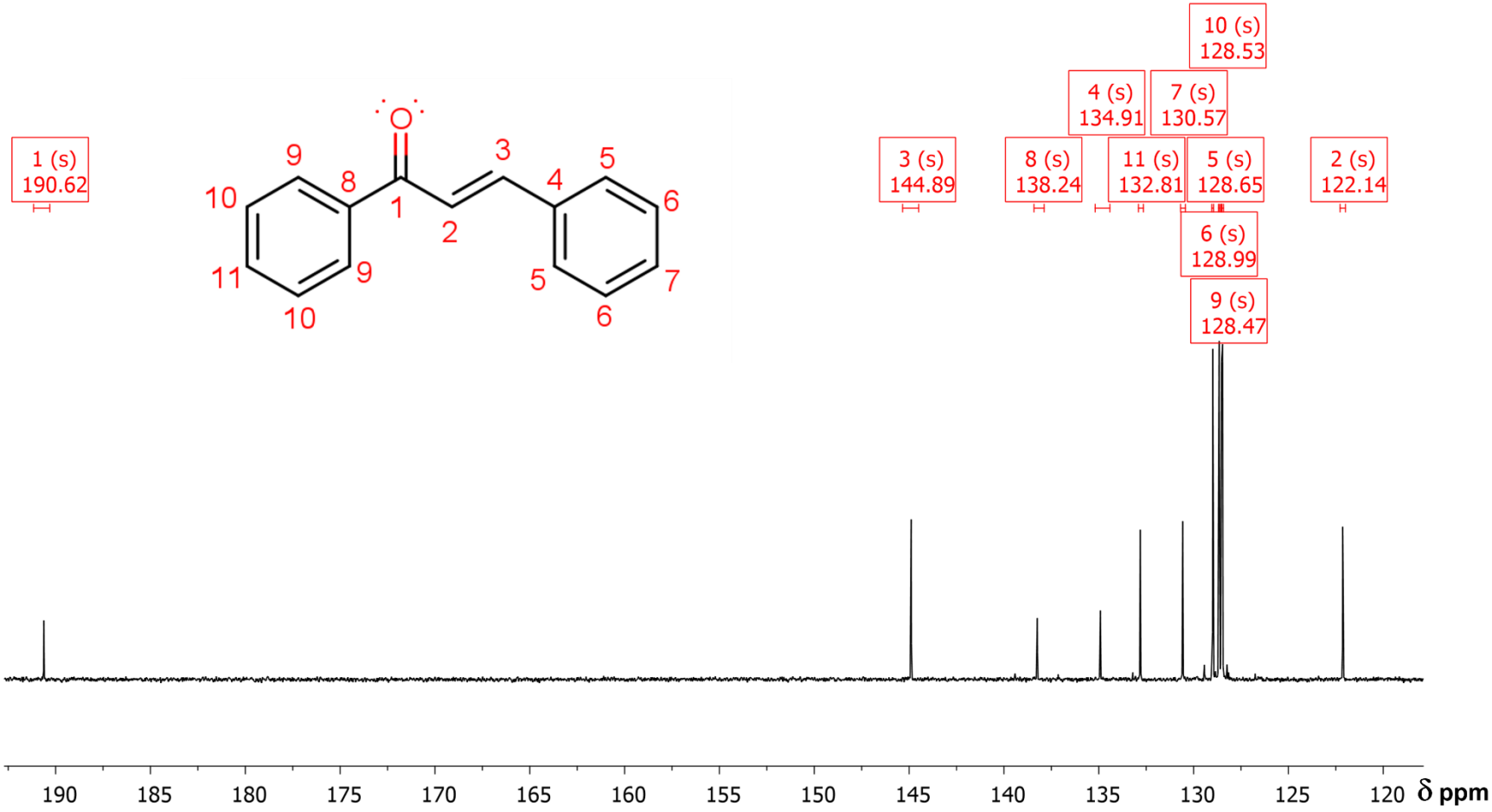

Figure S8. ^{13}C NMR spectrum (100 MHz, $CDCl_3$) of compound **1a.**

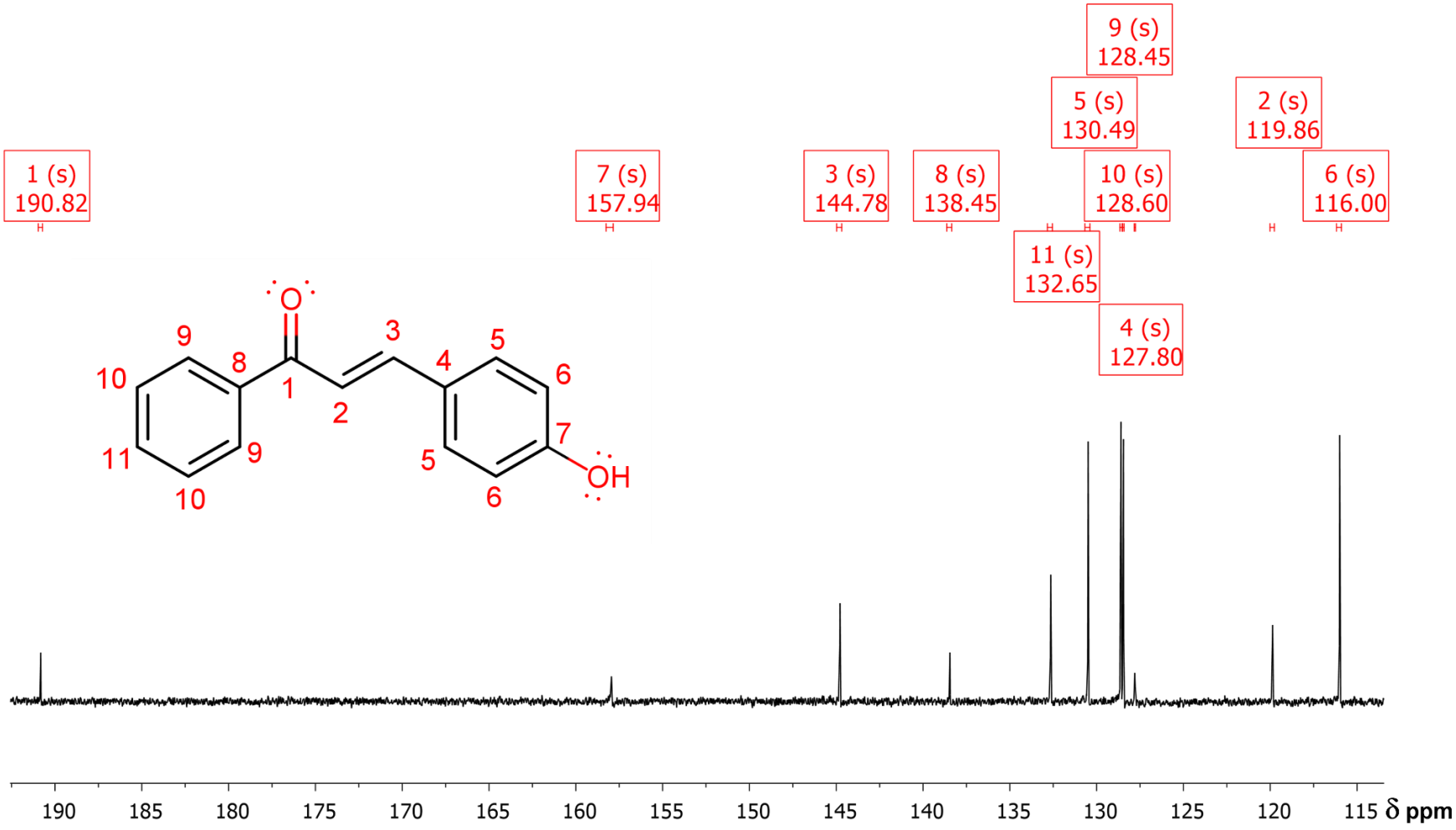

Figure S9. ^{13}C NMR spectrum (100 MHz, $CDCl_3$) of compound **1b.**

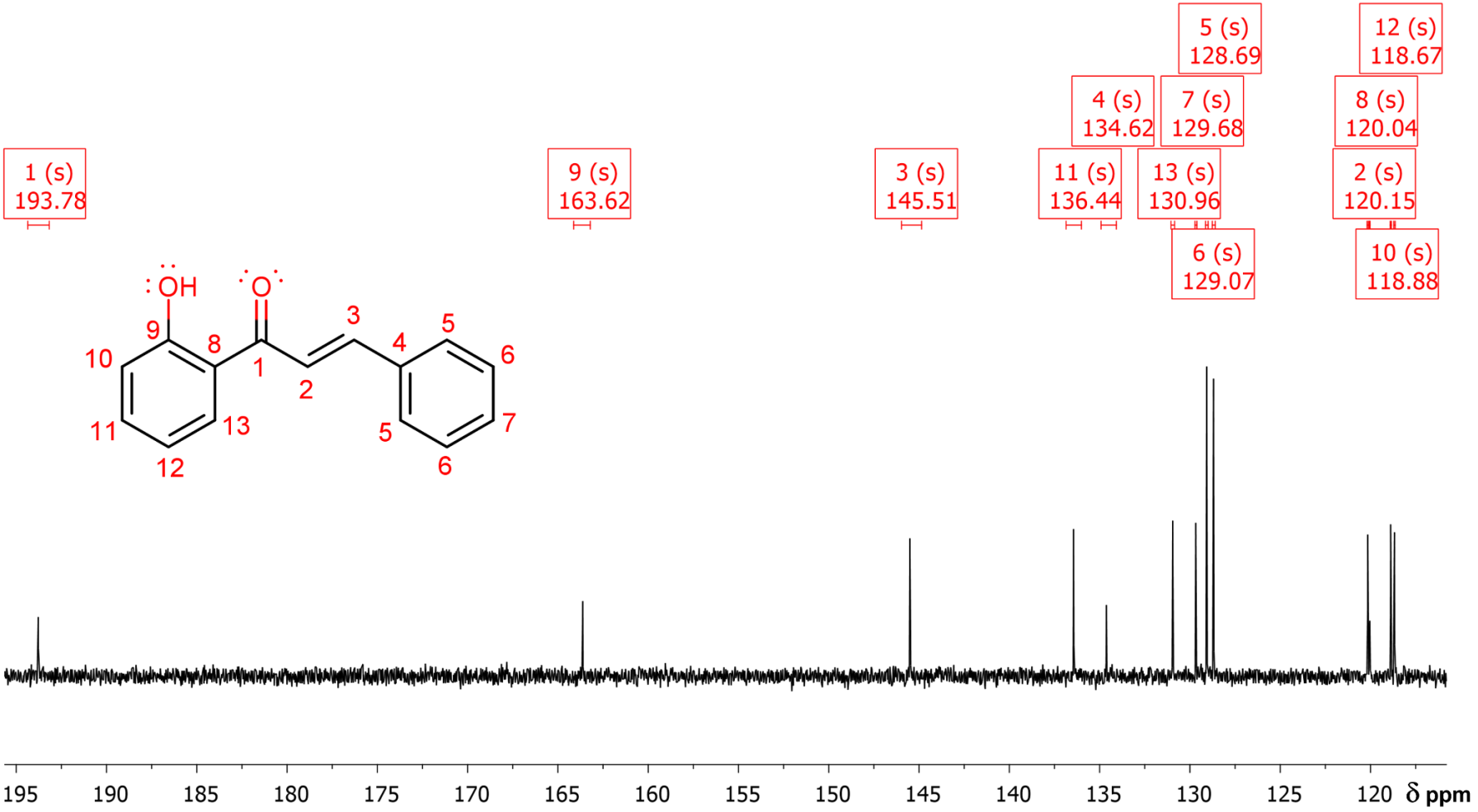

Figure S10. ^{13}C NMR spectrum (100 MHz, $CDCl_3$) of compound **1c.**

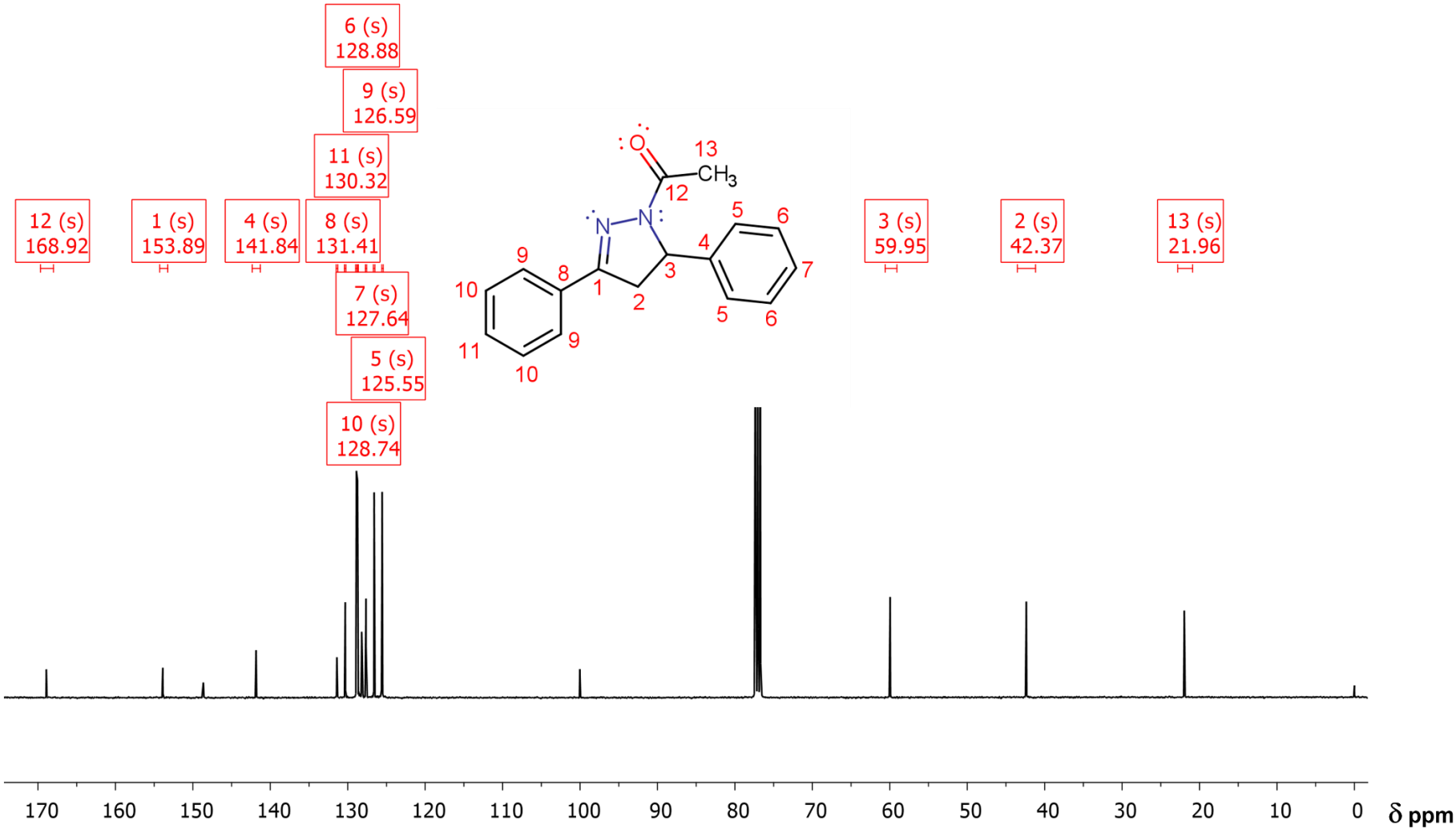

Figure S11. ^{13}C NMR spectrum (100 MHz, $CDCl_3$) of compound **2a.**

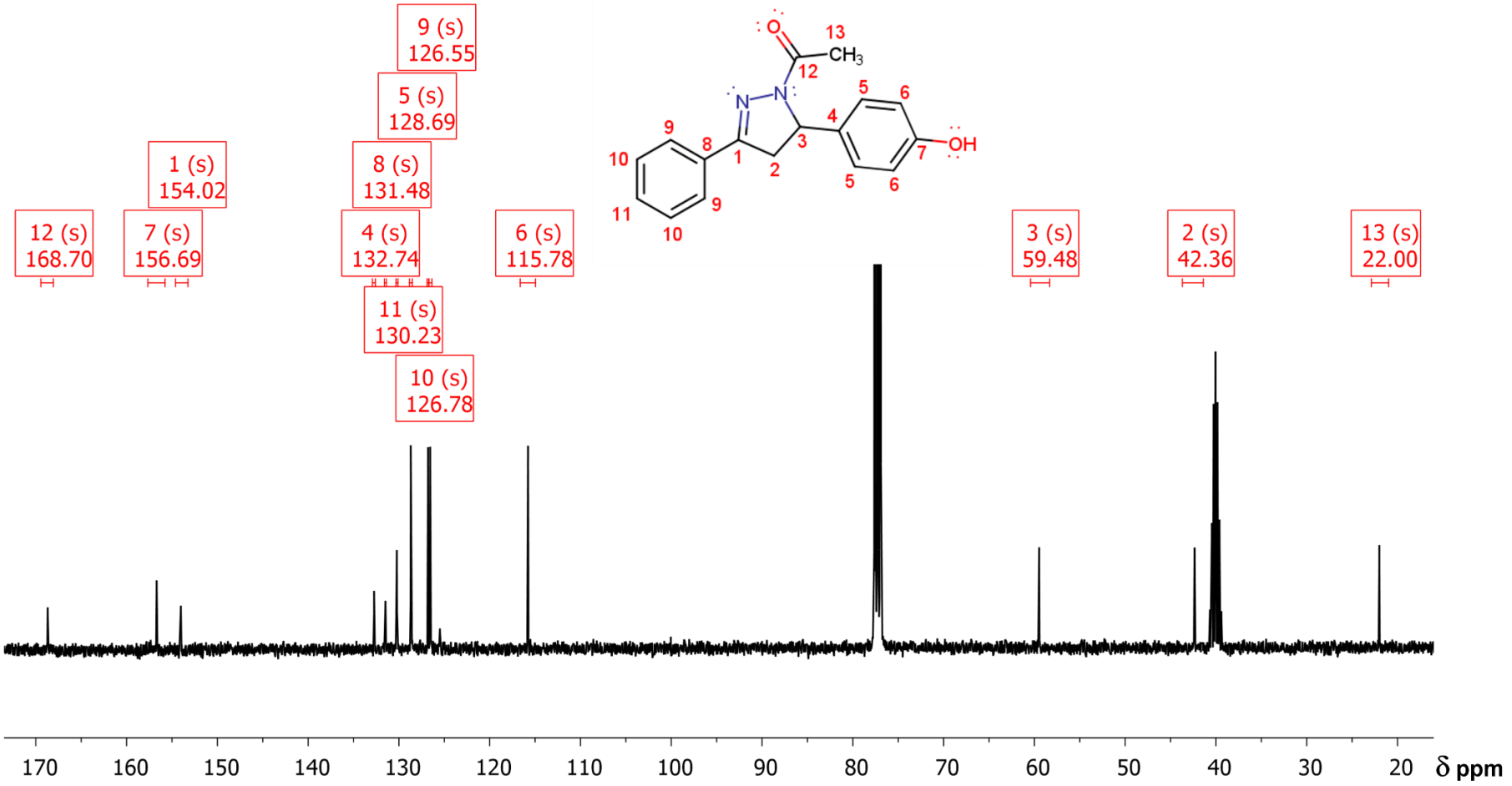

Figure S12. ^{13}C NMR spectrum (100 MHz, $CDCl_3$/DMSO-d_6) of compound **2b.**

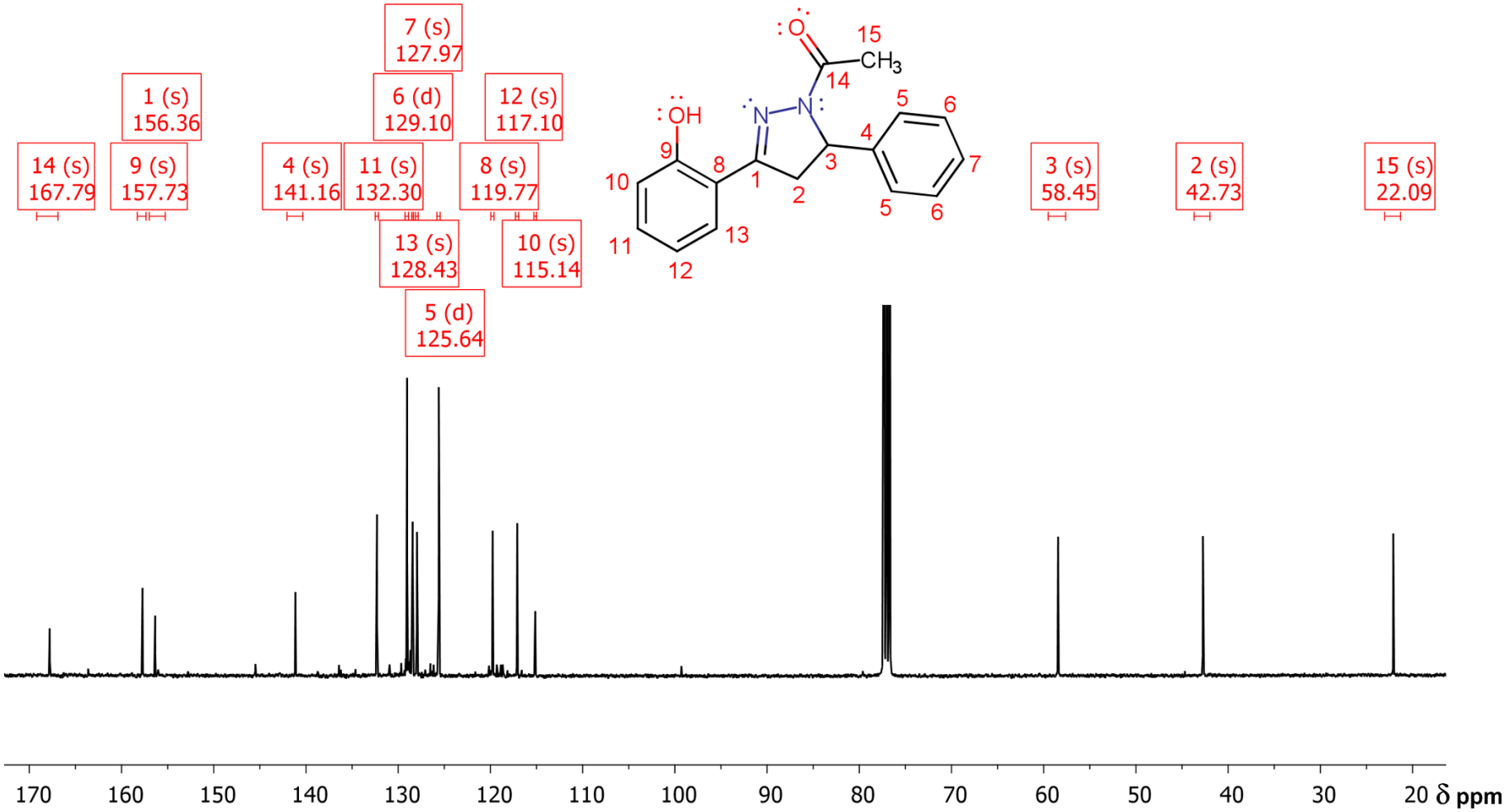

Figure S13. ^{13}C NMR spectrum (100 MHz, $CDCl_3$) of compound **2c.**

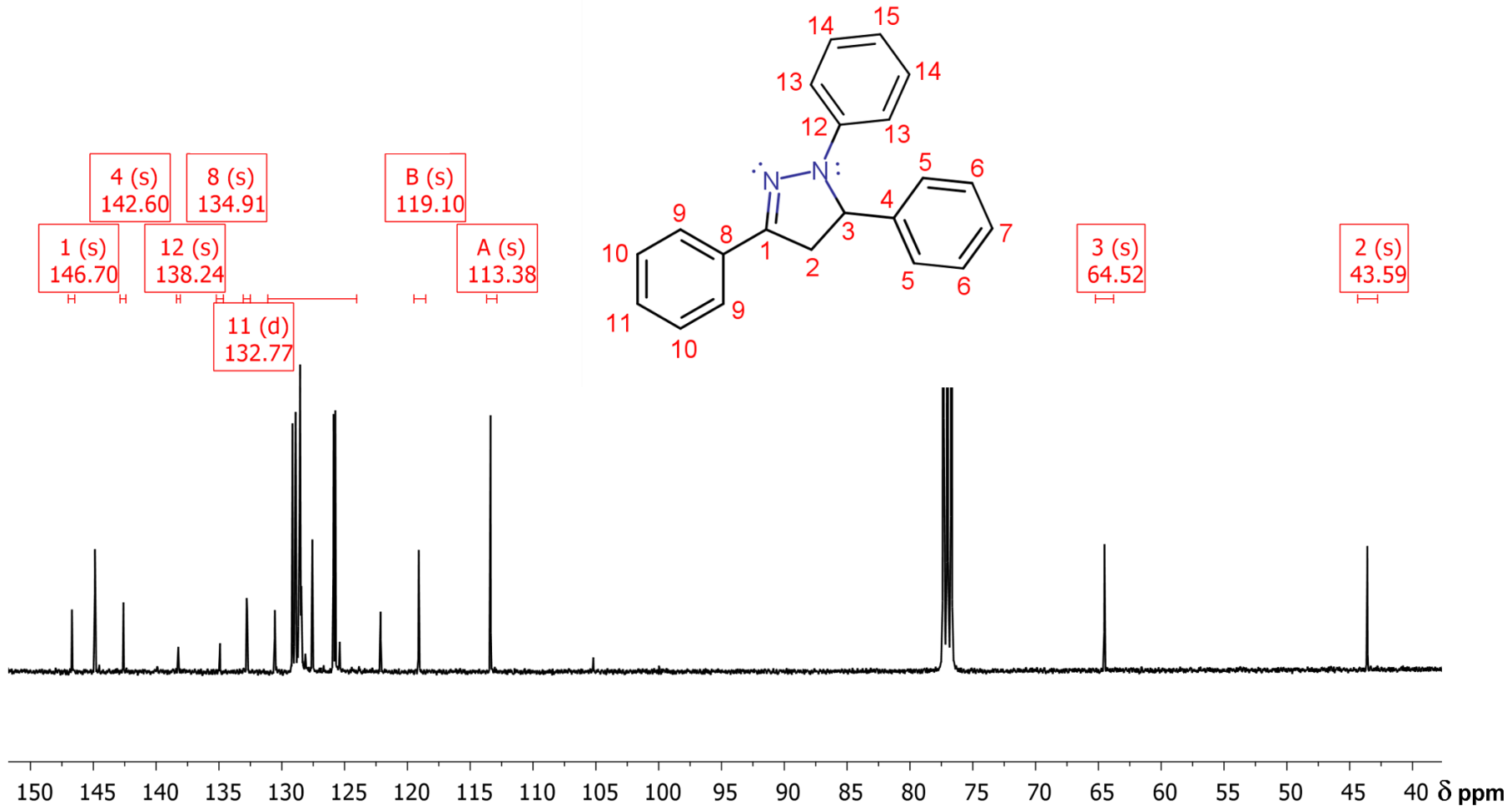

Figure S14. ^{13}C NMR spectrum (100 MHz, $CDCl_3$) of compound **3a.**

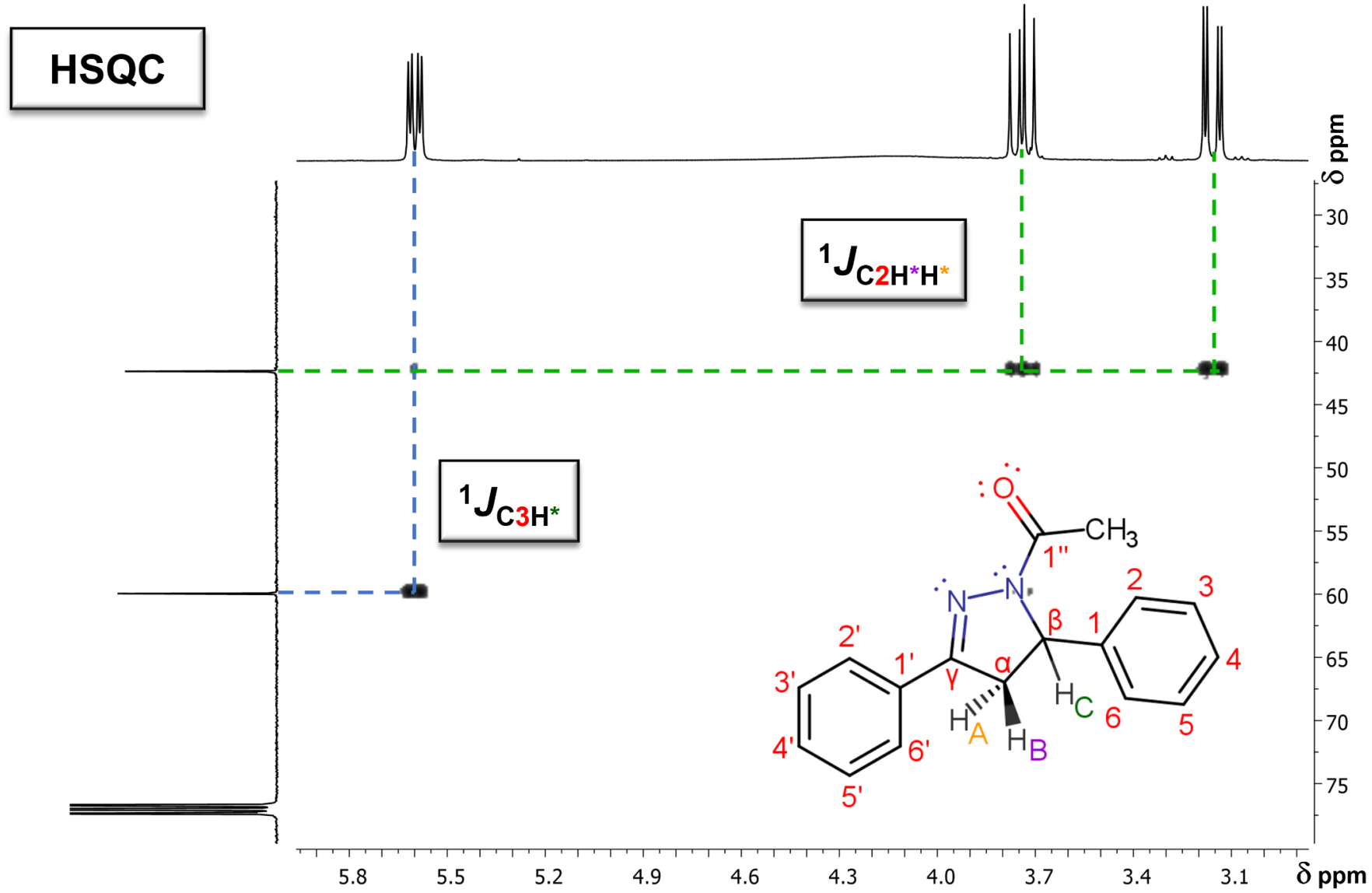

Figure S15. HSQC of compound **2a.**

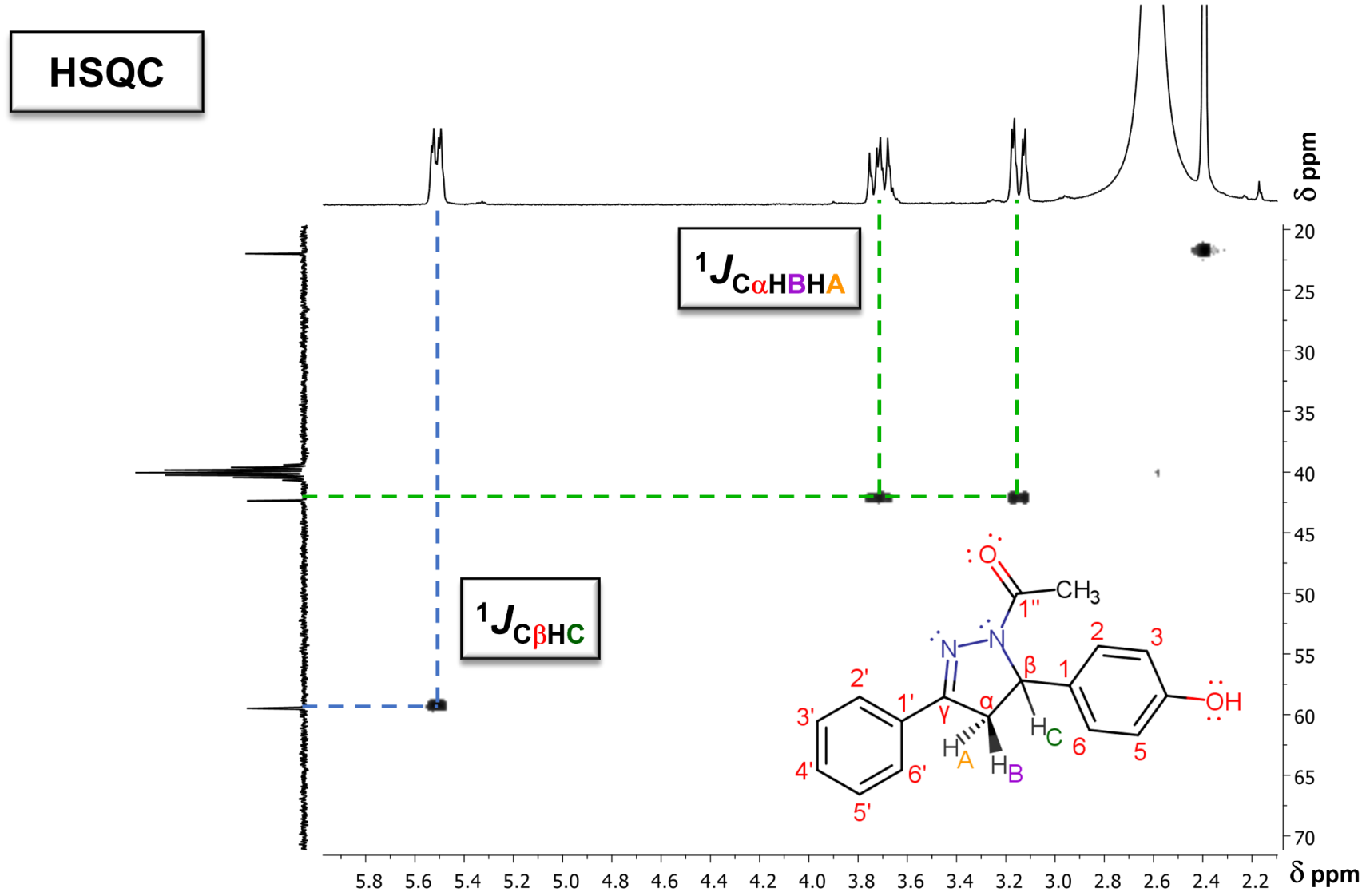

Figure S16. HSQC of compound **2b.**

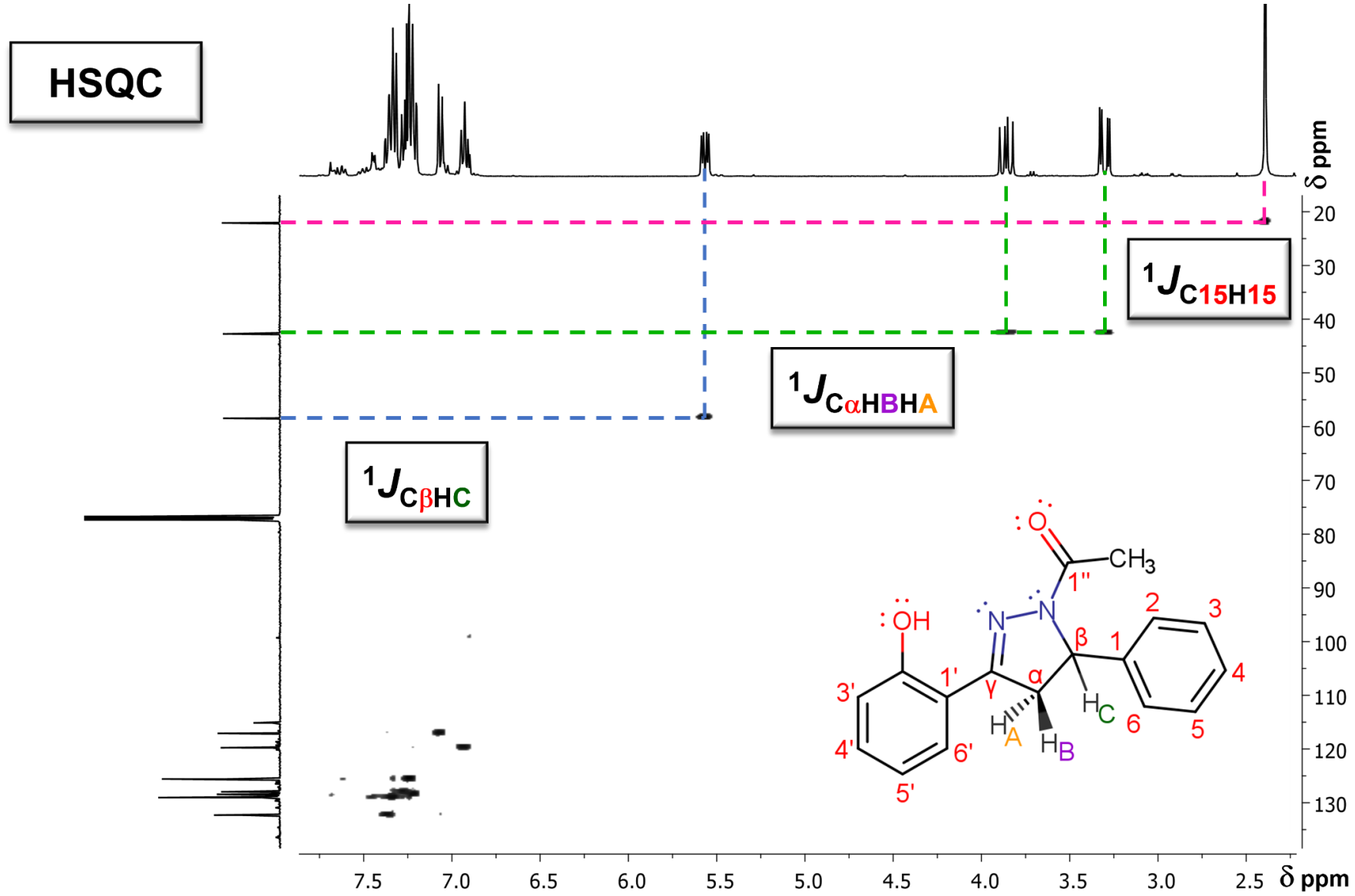

Figure S17. HSQC of compound **2c.**

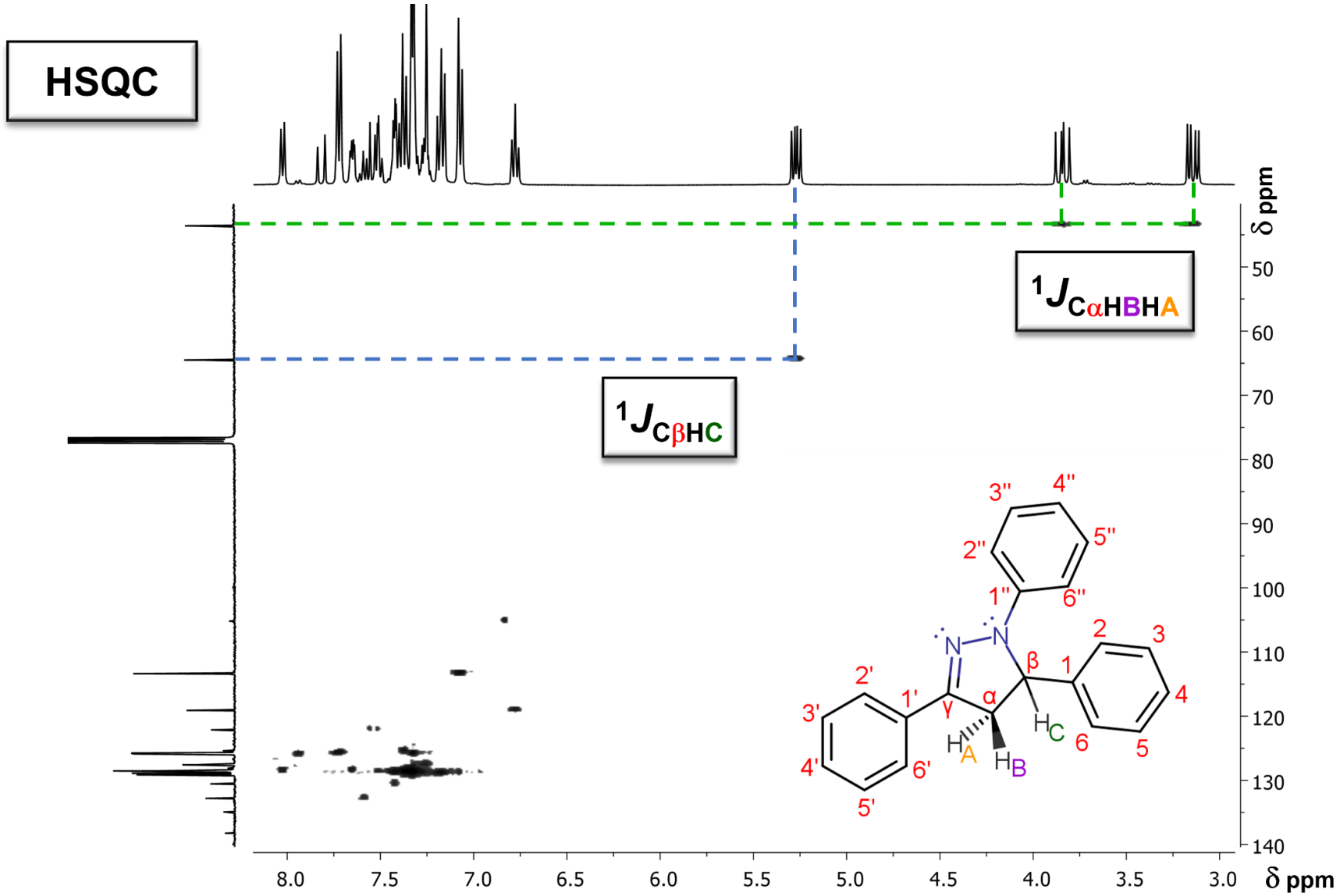

Figure S18. HSQC of compound **3a.**

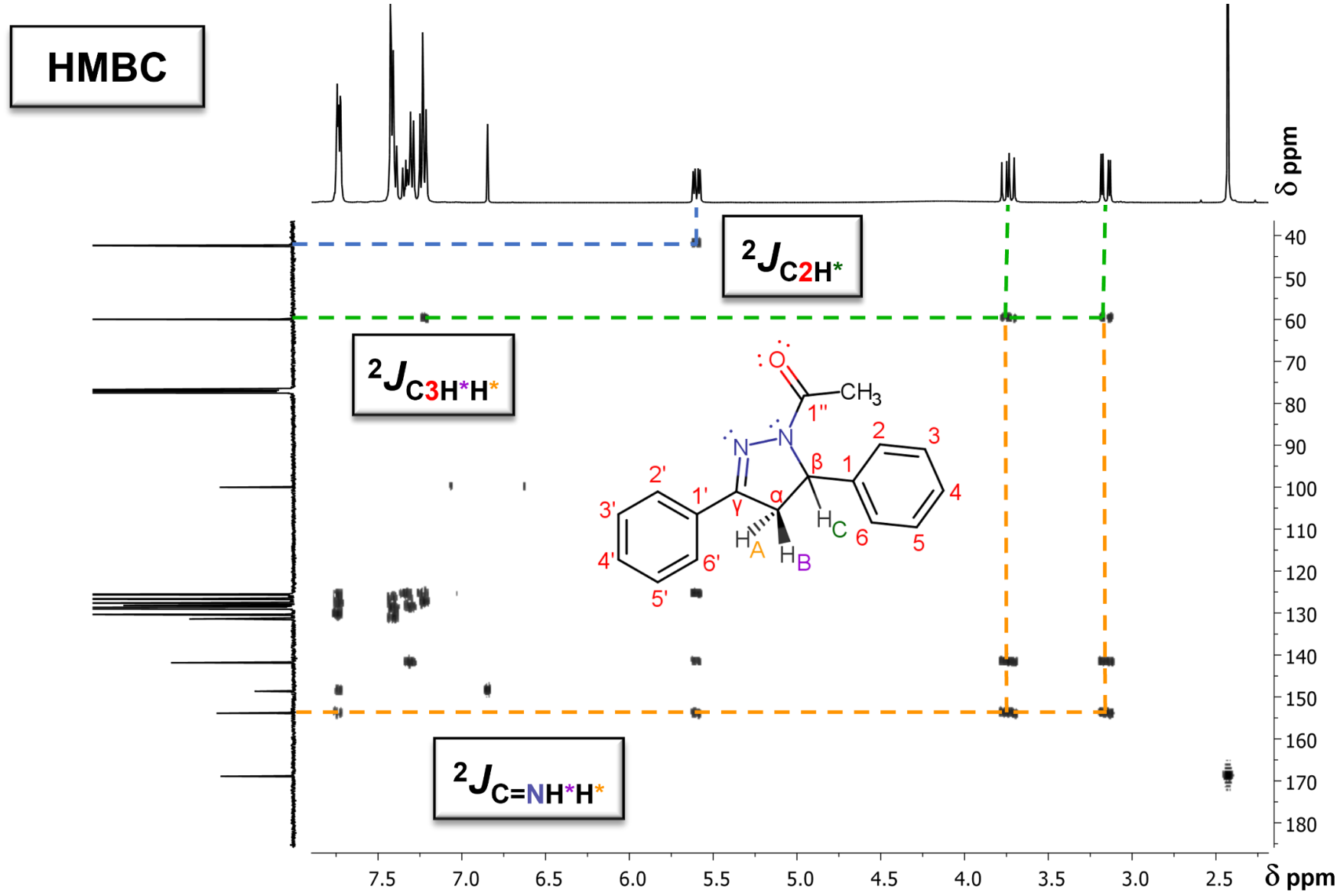

Figure S19. HMBC of compound **2a.**

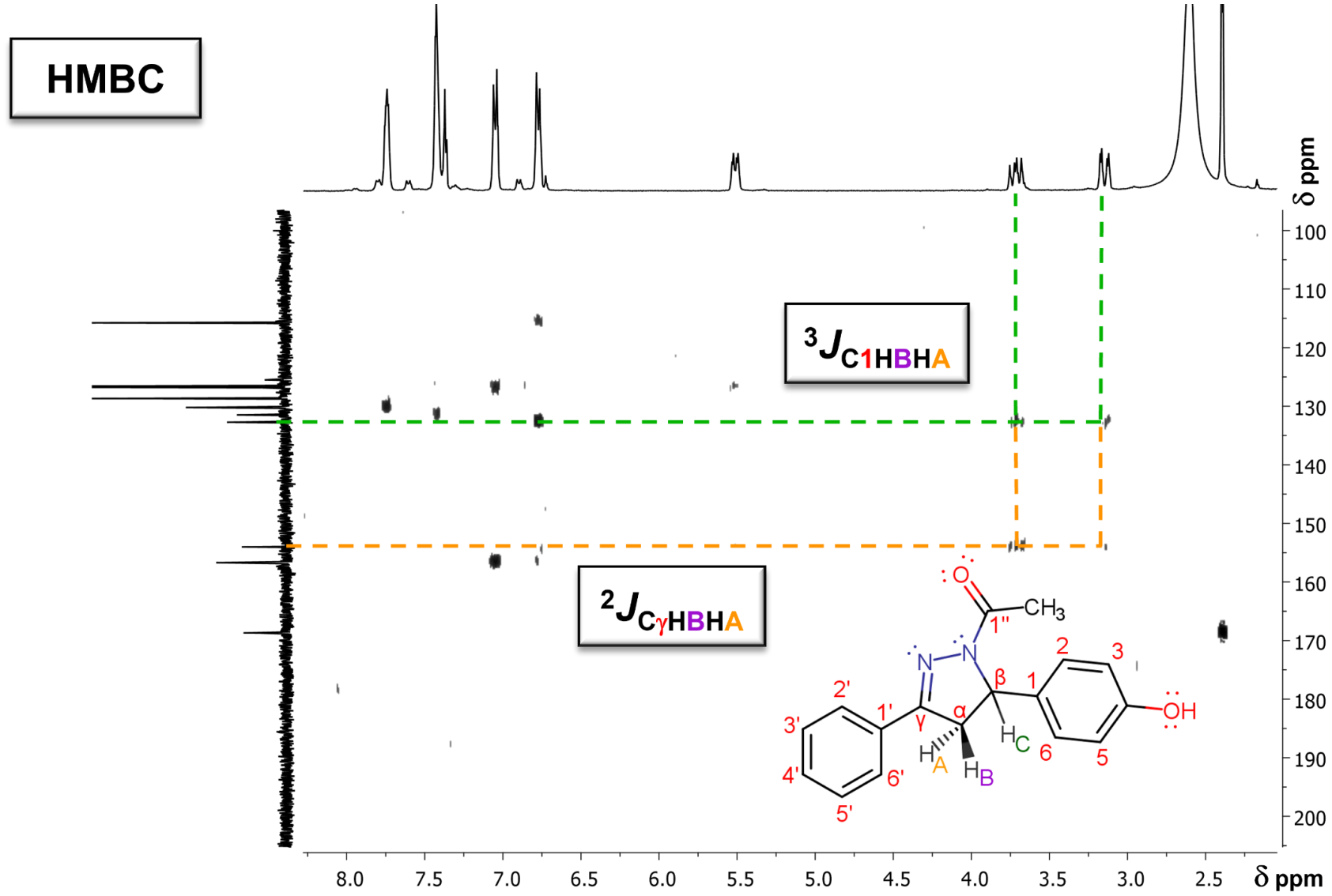

Figure S20. HMBC of compound **2b.**

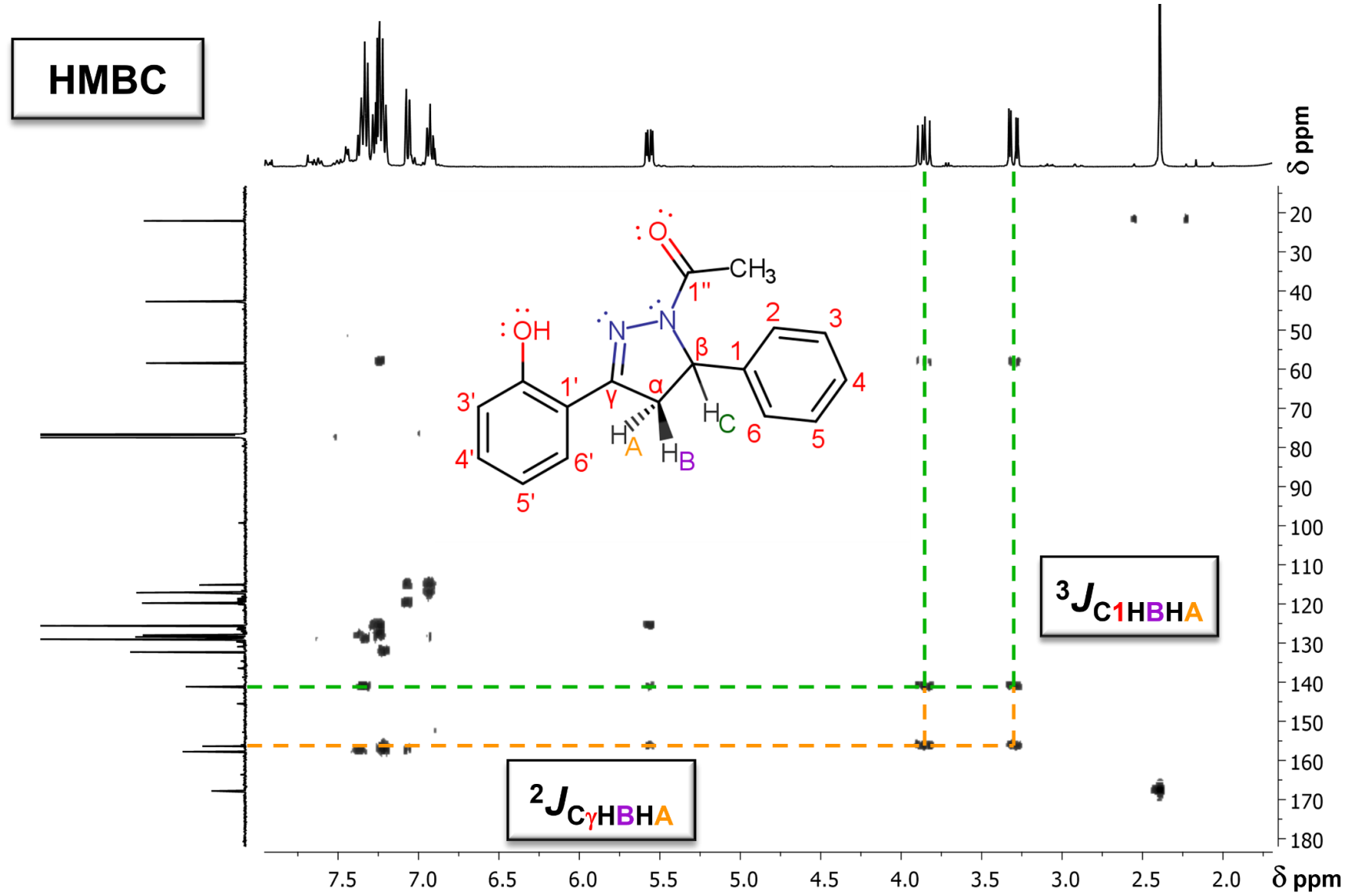

Figure S21. HMBC of compound **2c.**

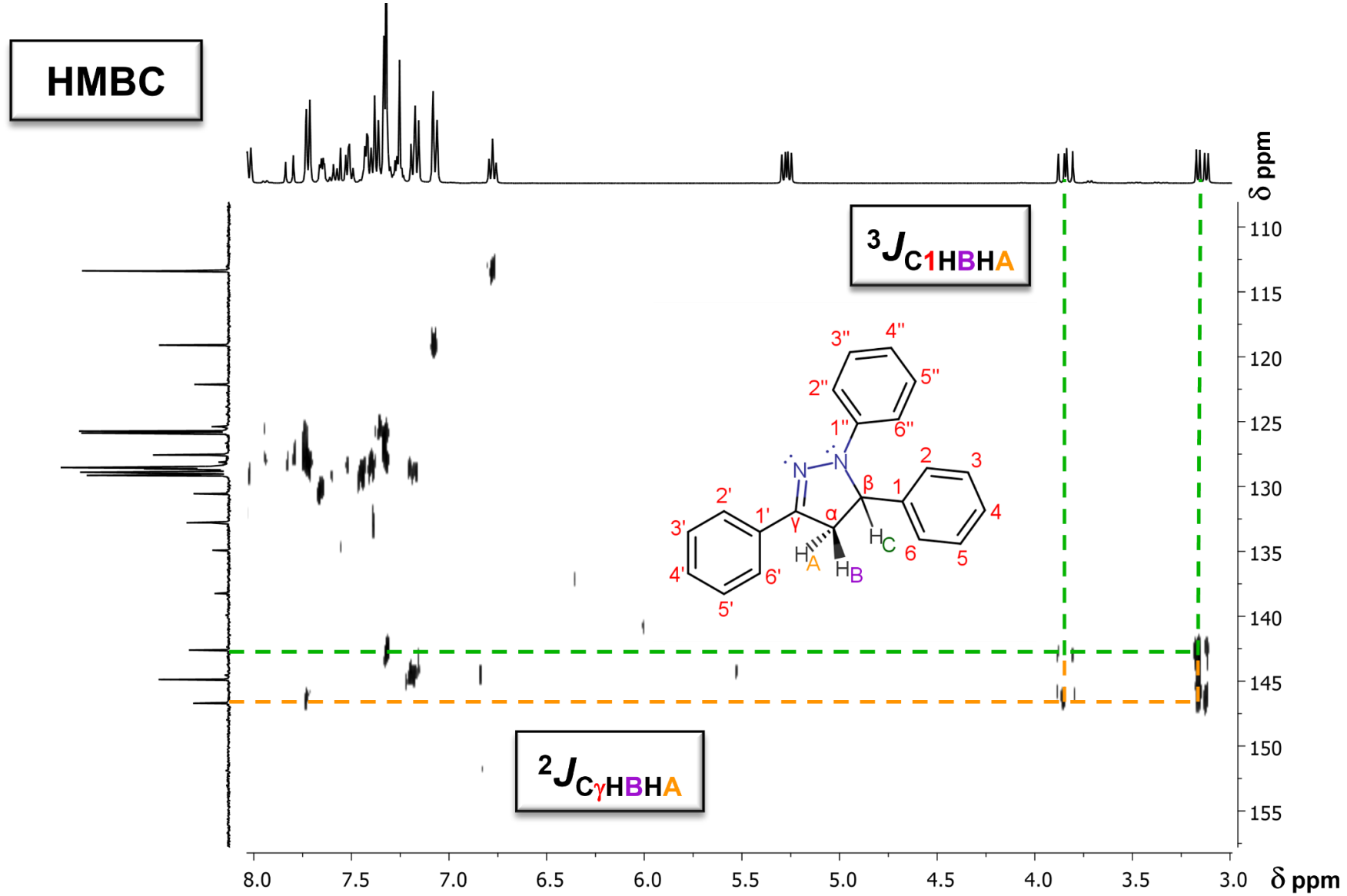

Figure S22. HMBC of compound **3a.**

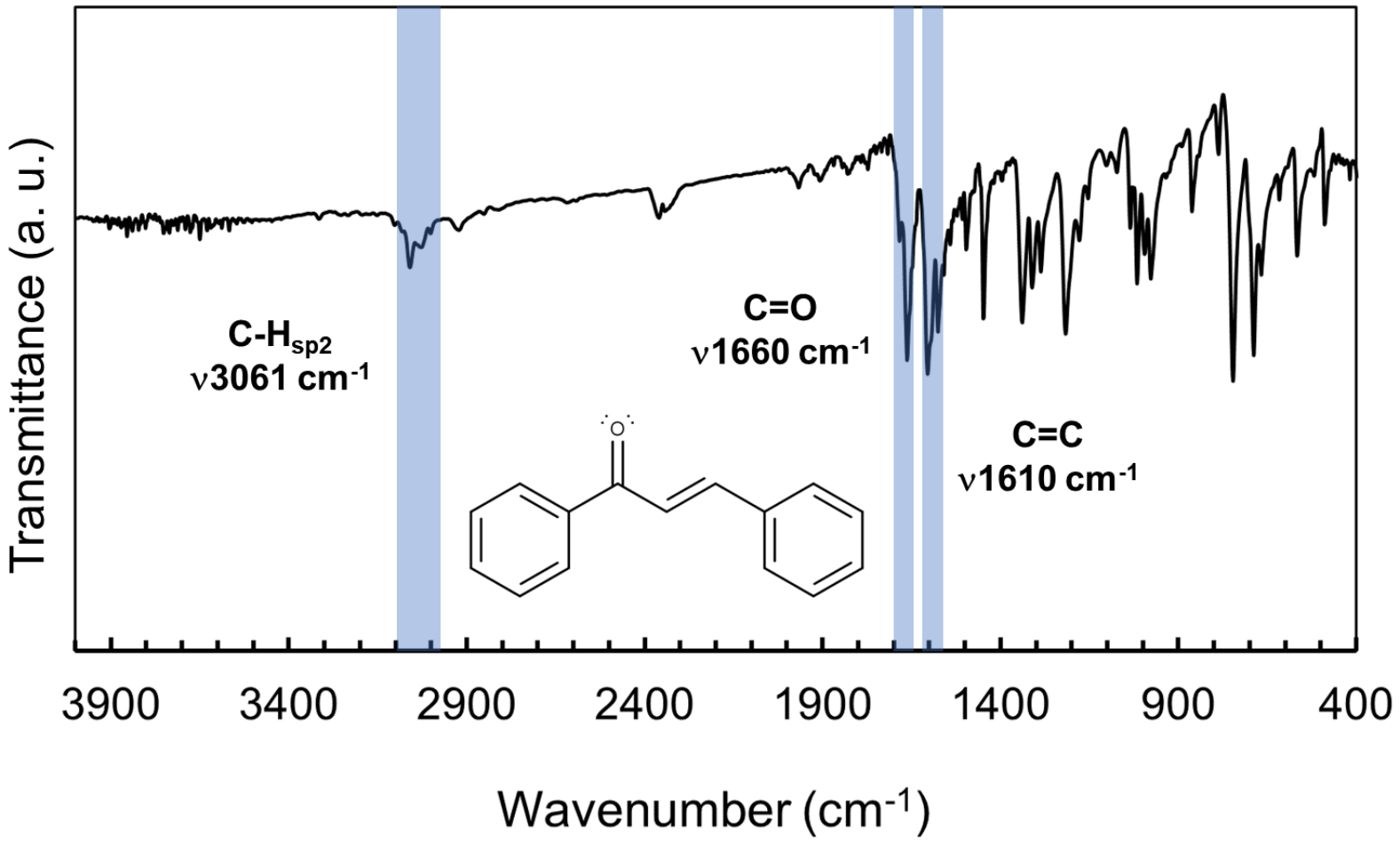

Figure S23. FT-IR of compound **1a.**

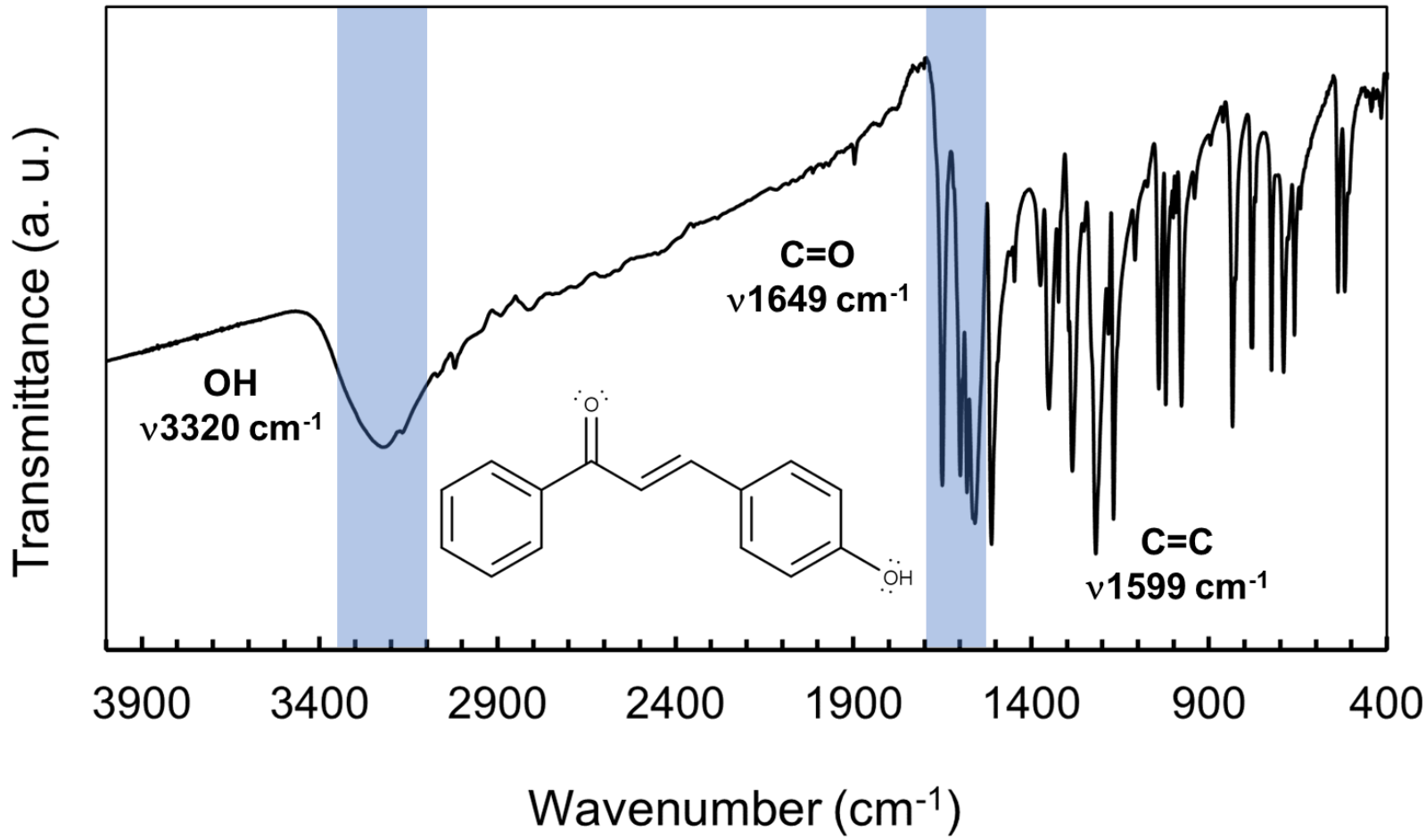

Figure S24. FT-IR of compound **1b.**

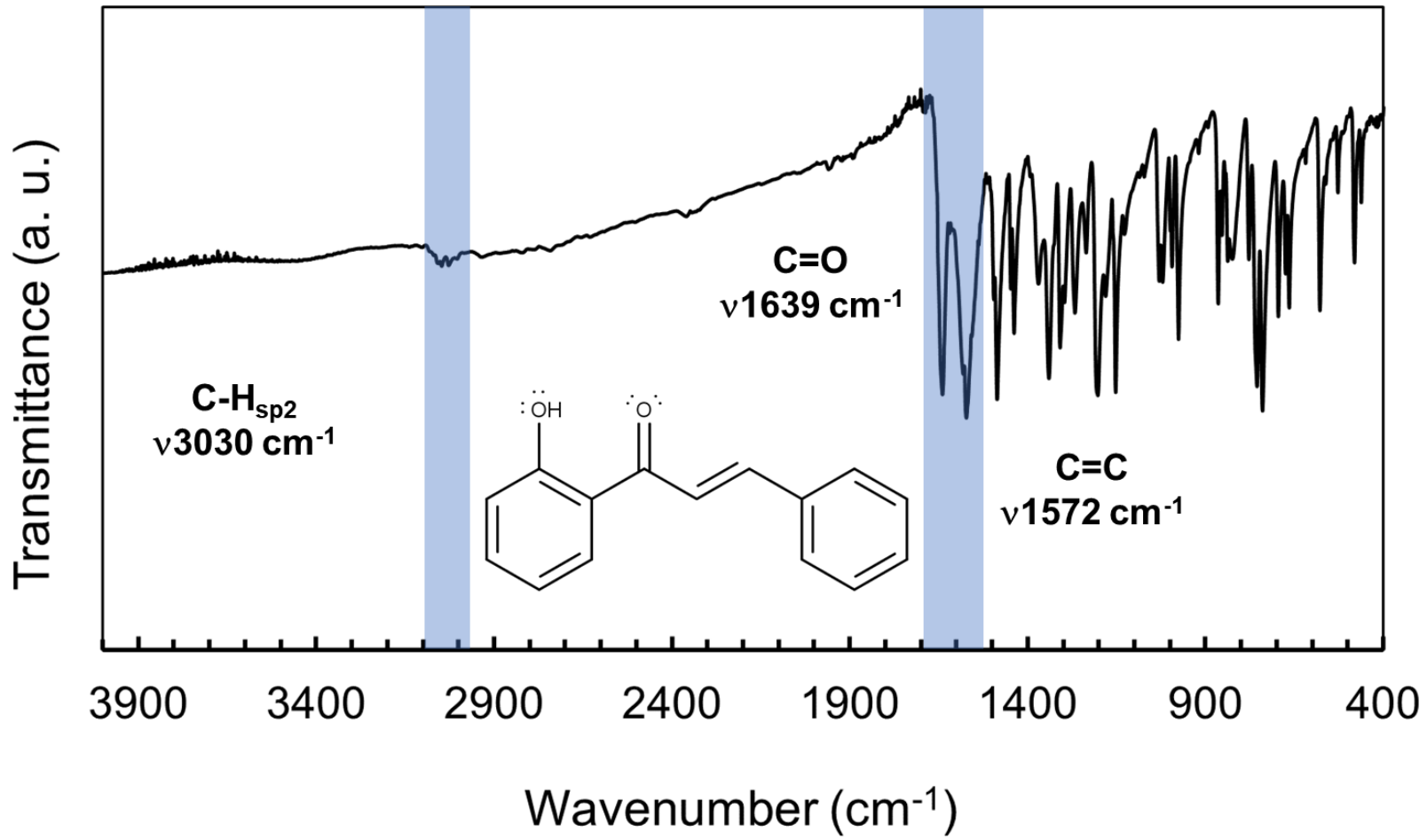

Figure S25. FT-IR of compound **1c.**

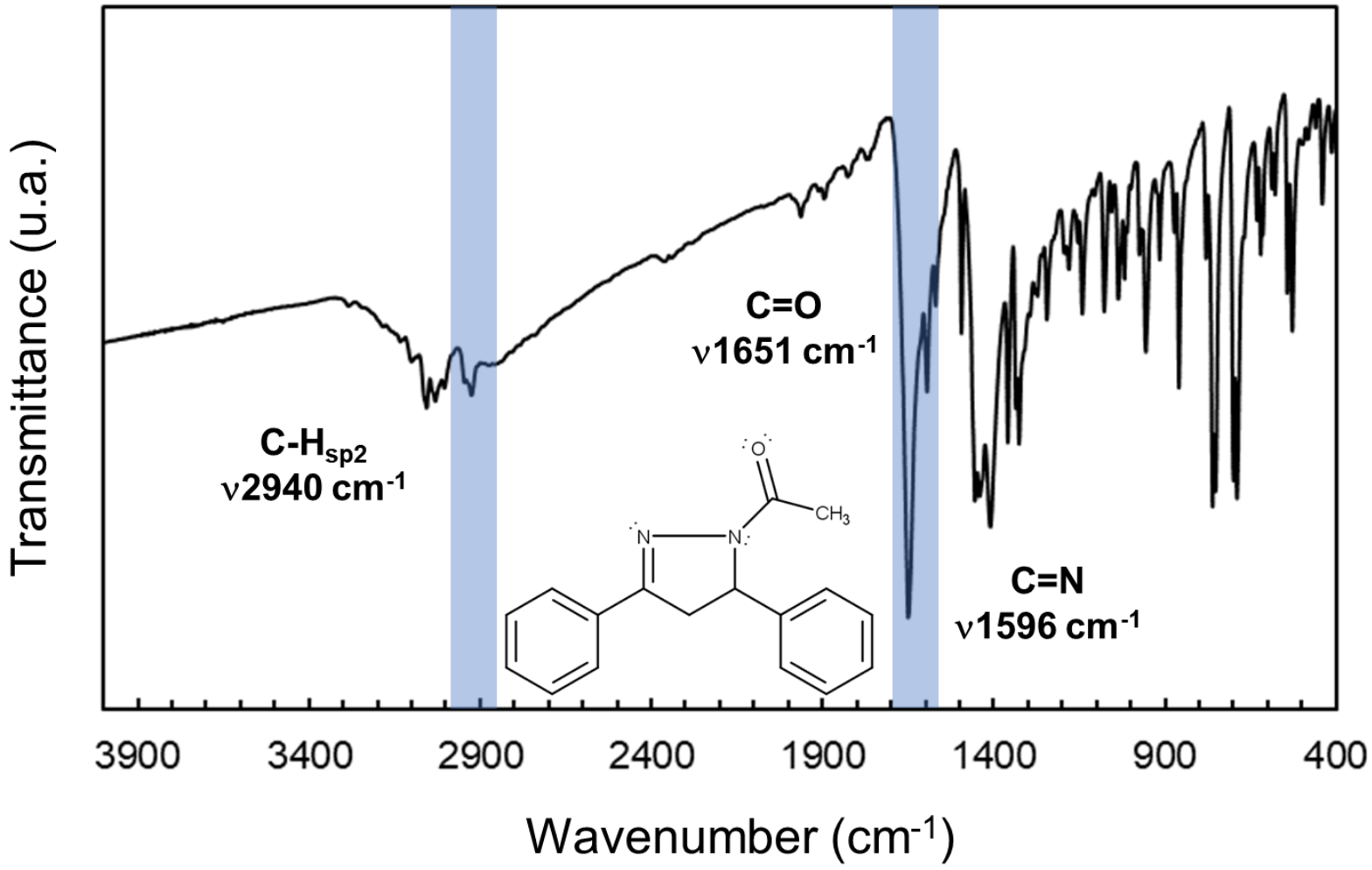

Figure S26. FT-IR of compound **2a.**

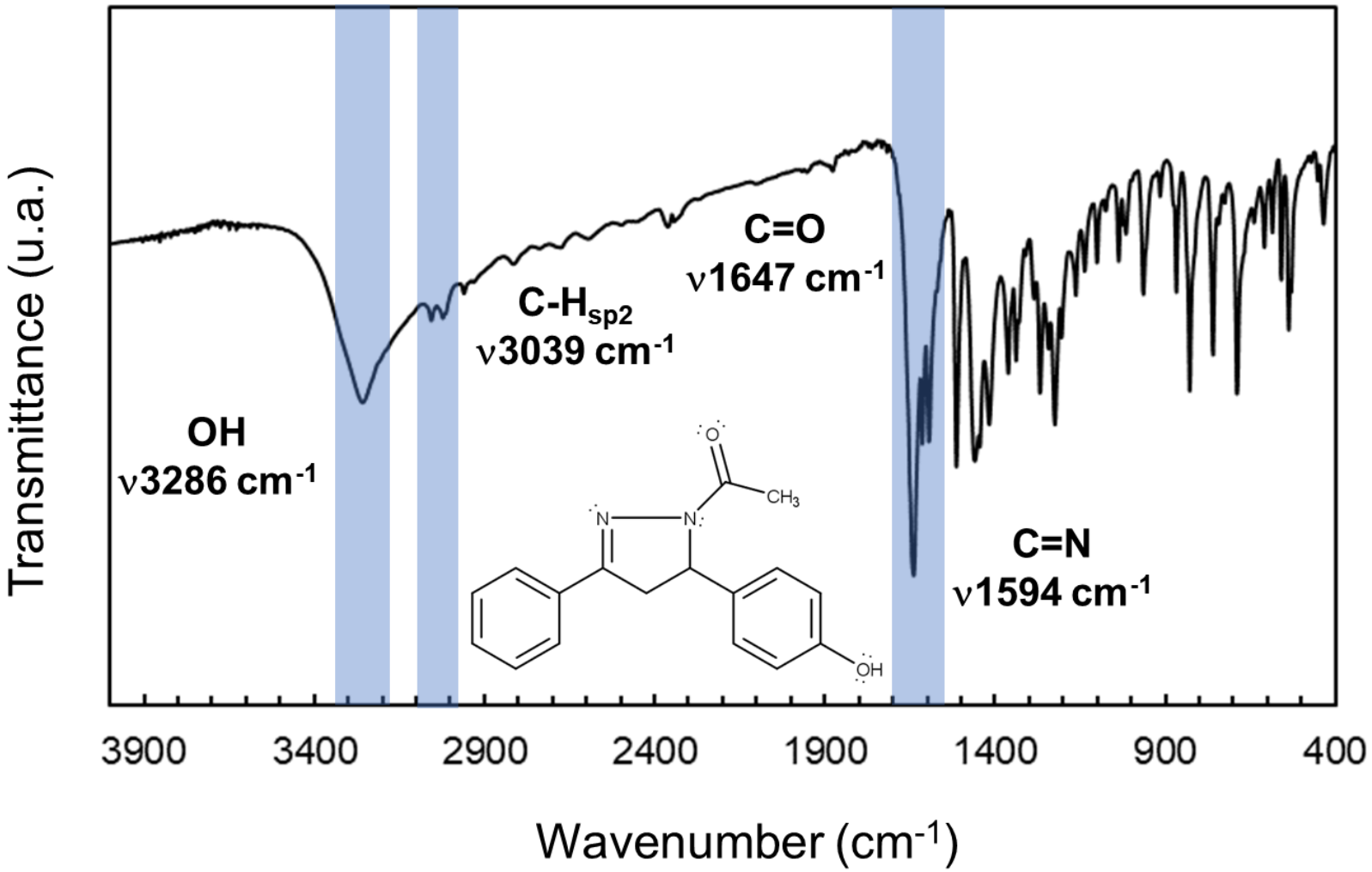

Figure S27. FT-IR of compound **2b.**

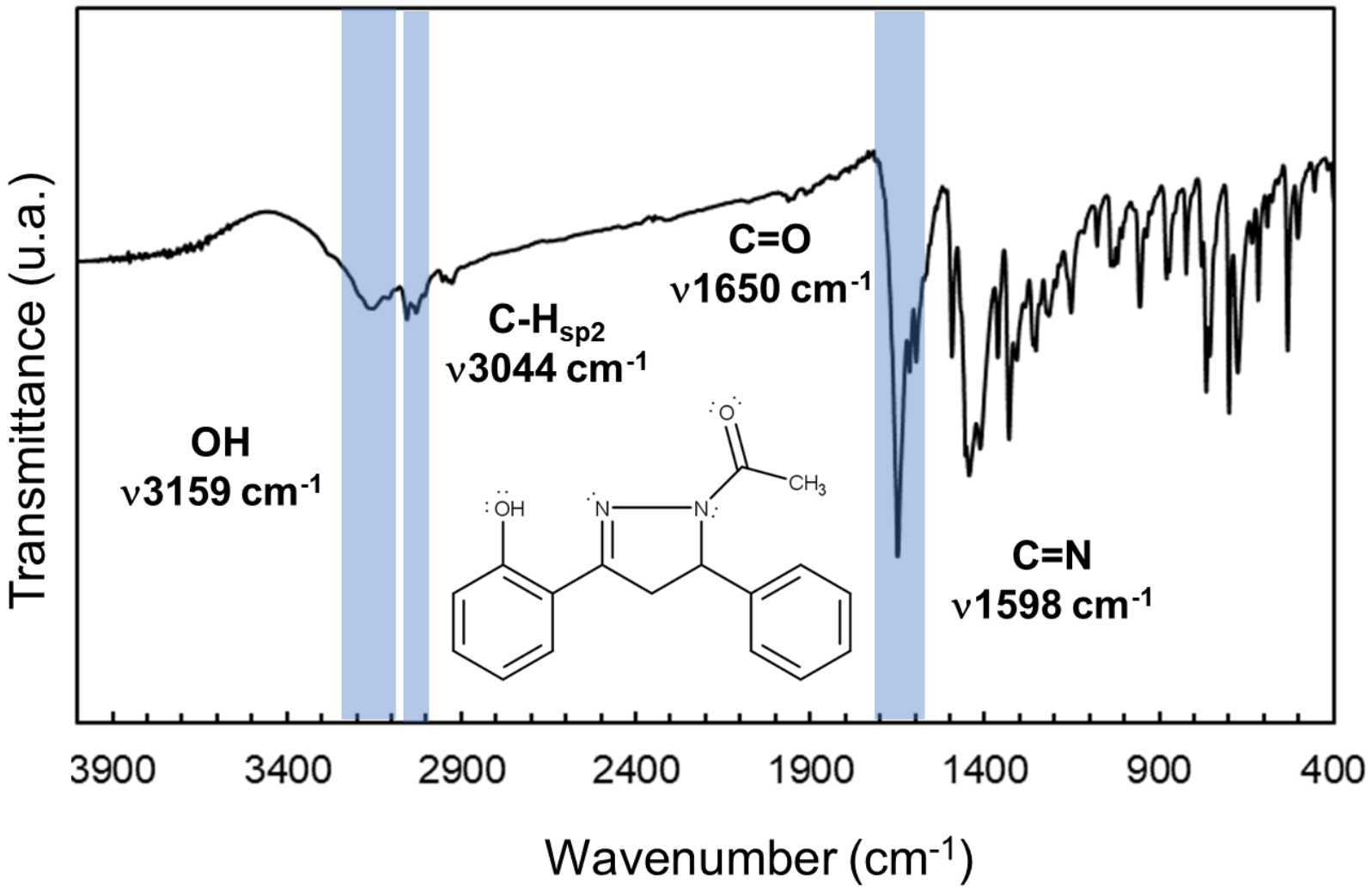

Figure S28. FT-IR of compound **2c.**

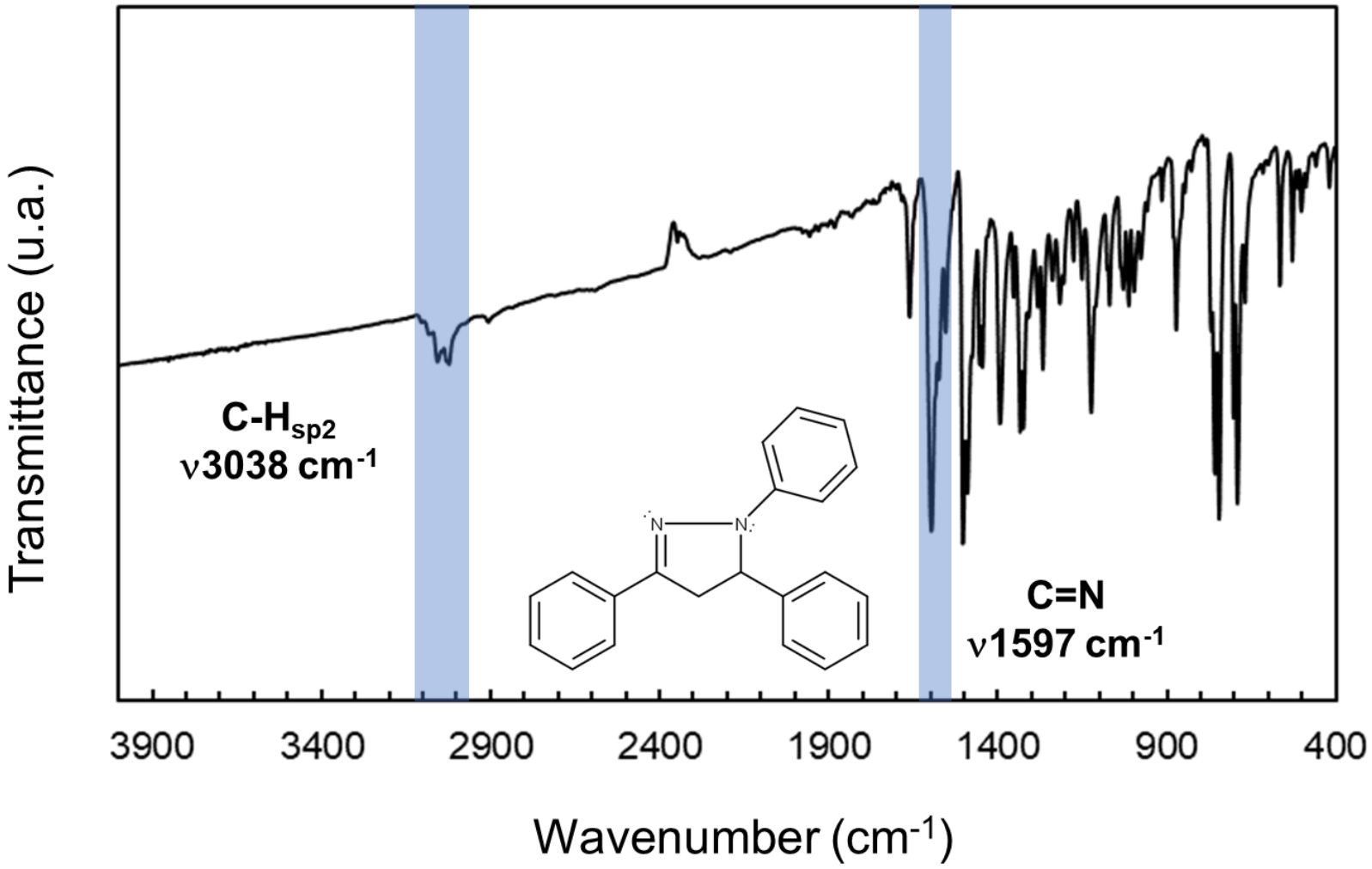

Figure S29. FT-IR of compound **3a.**