Supporting Information

for

Two new 2-alkylquinolones, inhibitory to the fish skin ulcer pathogen *Tenacibaculum maritimum*, produced by a rhizobacterium of the genus *Burkholderia* sp.

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^{1}H and ^{13}C NMR, COSY, HSQC, and HMBC spectra for compounds 1 and 3

(*E*)-2-(hept-2-en-1-yl)quinolin-4(1*H*)-one (**1**)

^{1}H NMR spectrum (CH_3OD, 500 MHz) S2

^{13}C NMR spectrum (CH_3OD, 125 MHz) S3

COSY spectrum (CH_3OD, 500 MHz) S4

HSQC spectrum (CH_3OD, 500 MHz) S5

HMBC spectrum (CH_3OD, 500 MHz) S6

(*E*)-2-(non-2-en-1-yl)quinolin-4(1*H*)-one (**3**)

^{1}H NMR spectrum ($CDCl_3$, 500 MHz) S7

^{13}C NMR spectrum ($CDCl_3$, 125 MHz) S8

COSY spectrum ($CDCl_3$, 500 MHz) S9

HSQC spectrum ($CDCl_3$, 500 MHz) S10

HMBC spectrum ($CDCl_3$, 500 MHz) S11

^{1}H NMR spectral comparison with 2-heptylquinolin-4(1*H*)-one (**2**) S12

NOESY spectrum ($CDCl_3$, 500 MHz) S13

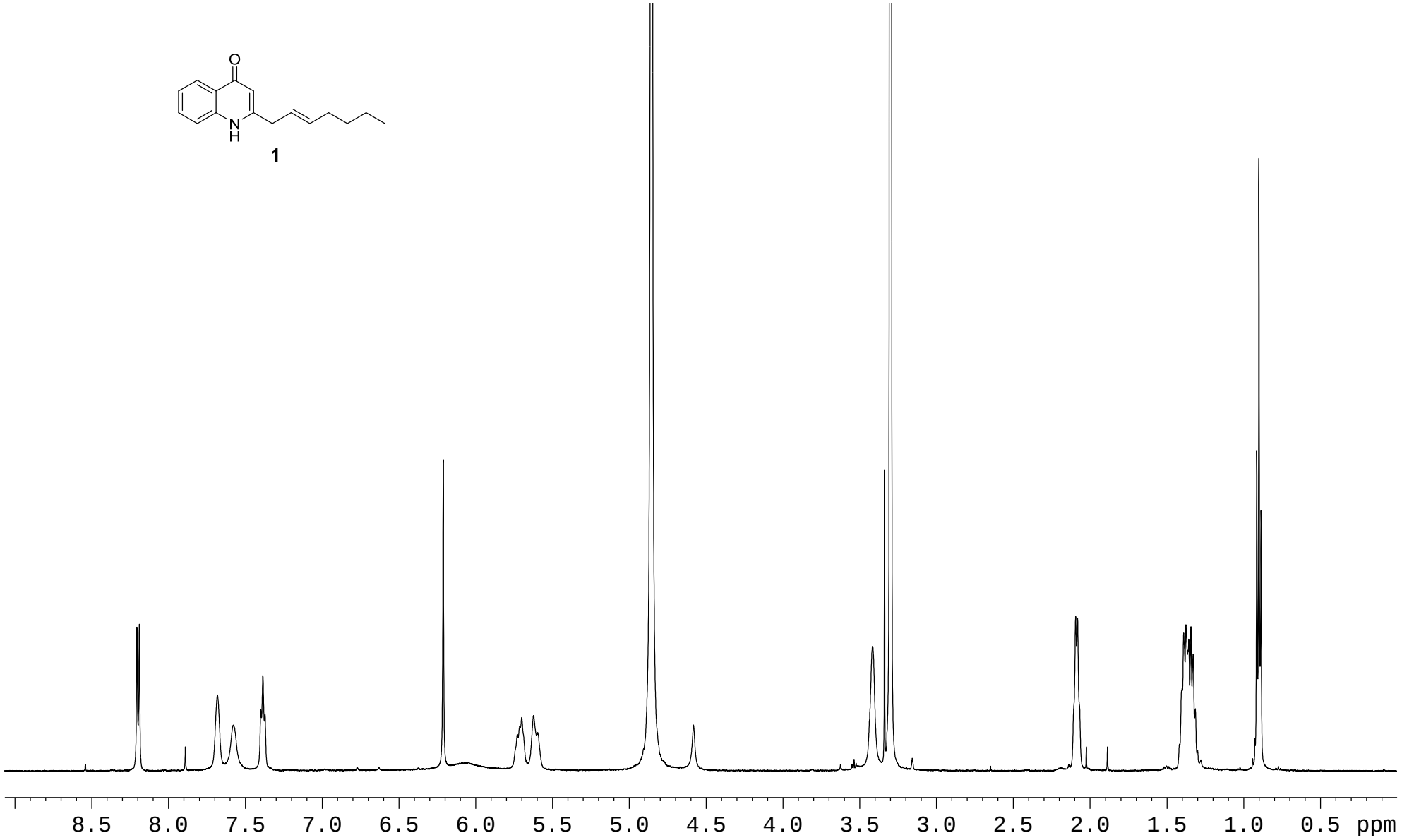

Figure S1: ^{1}H NMR spectrum of (*E*)-2-(hept-2-en-1-yl)quinolin-4(1*H*)-one (**1**, 500 MHz, CH_3OD)

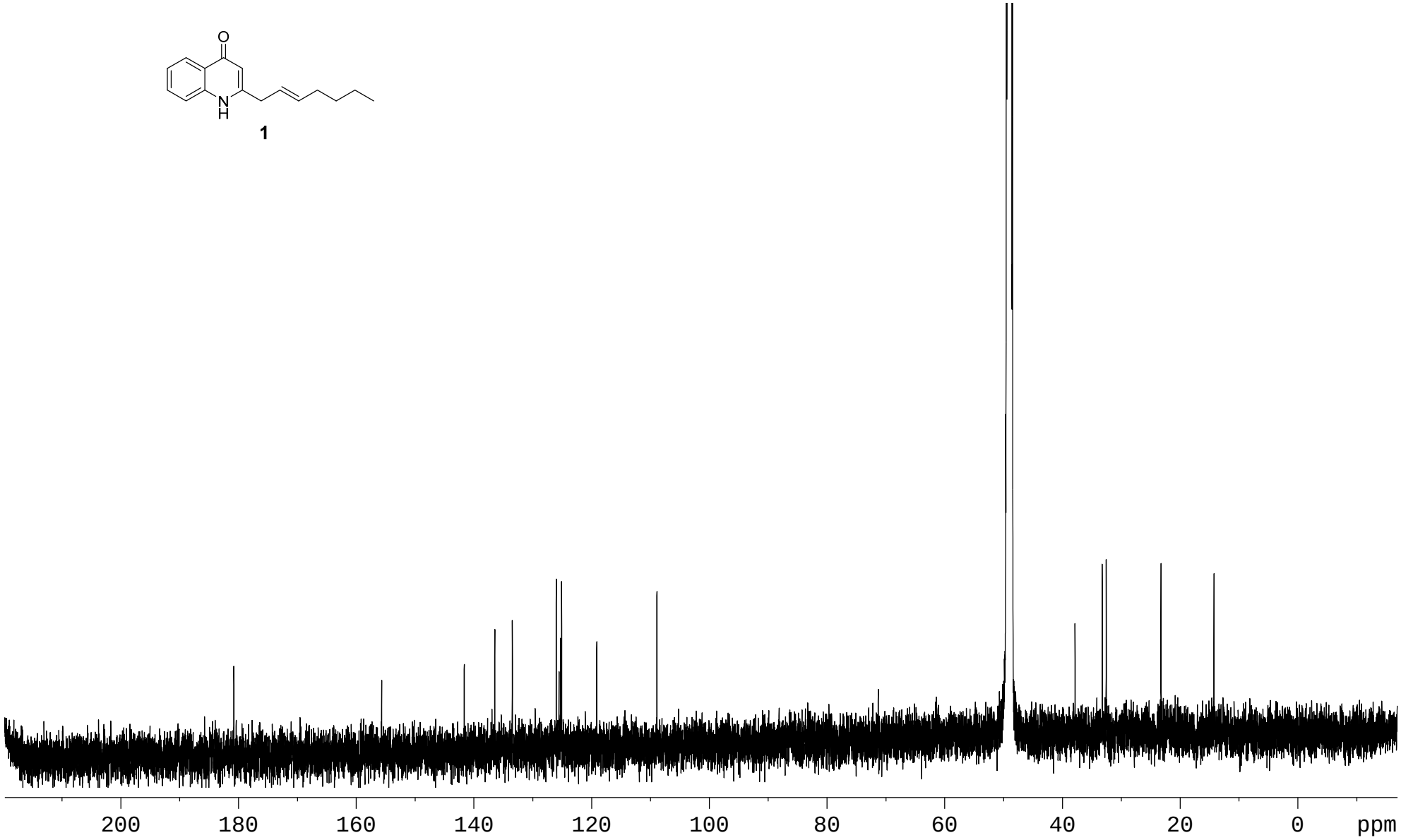

Figure S2: ^{13}C NMR spectrum of (*E*)-2-(hept-2-en-1-yl)quinolin-4(1*H*)-one (**1**, 125 MHz, CH_3OD)

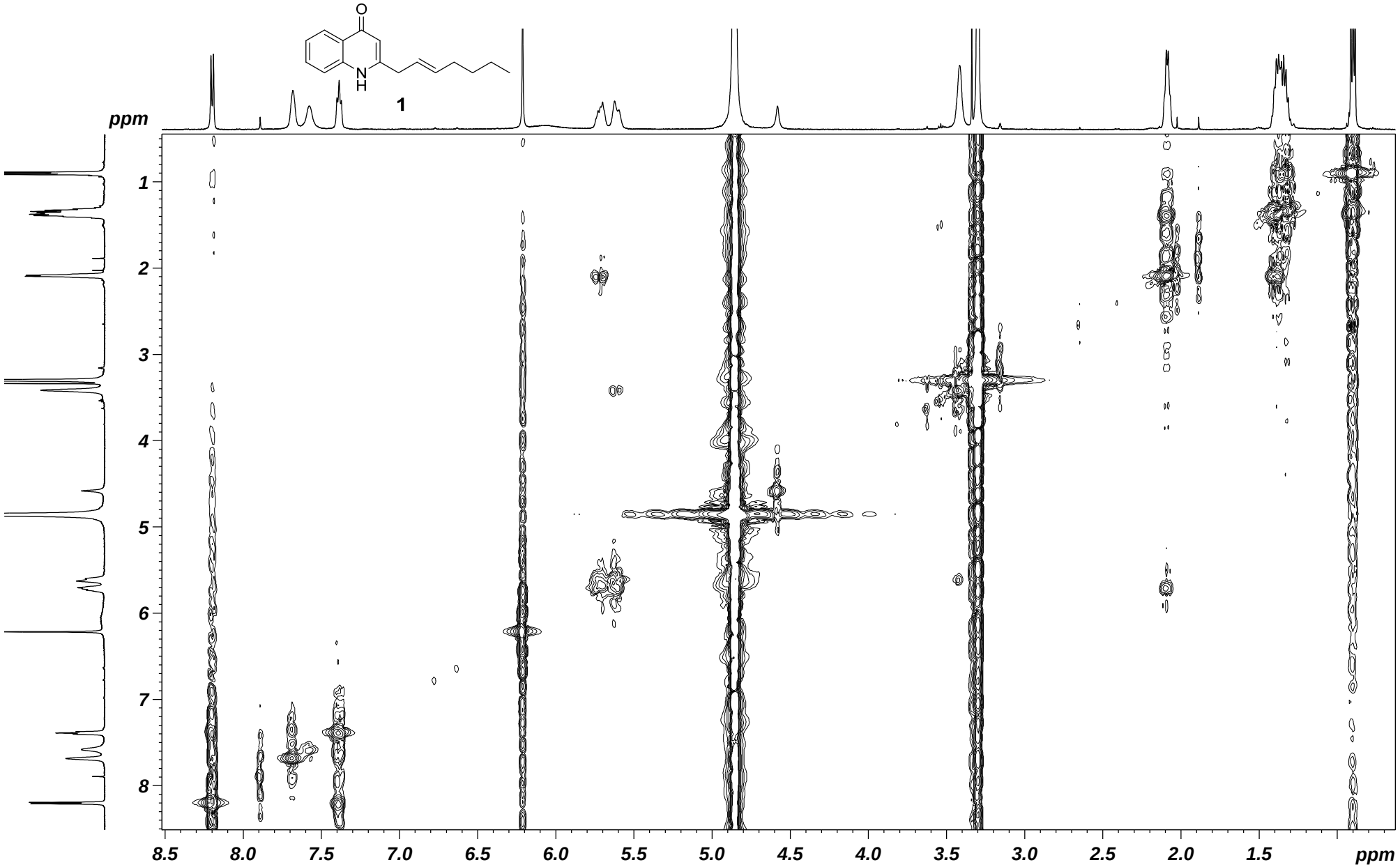

Figure S3: COSY spectrum of (*E*)-2-(hept-2-en-1-yl)quinolin-4(1*H*)-one (**1**, 500 MHz, CH_3OD)

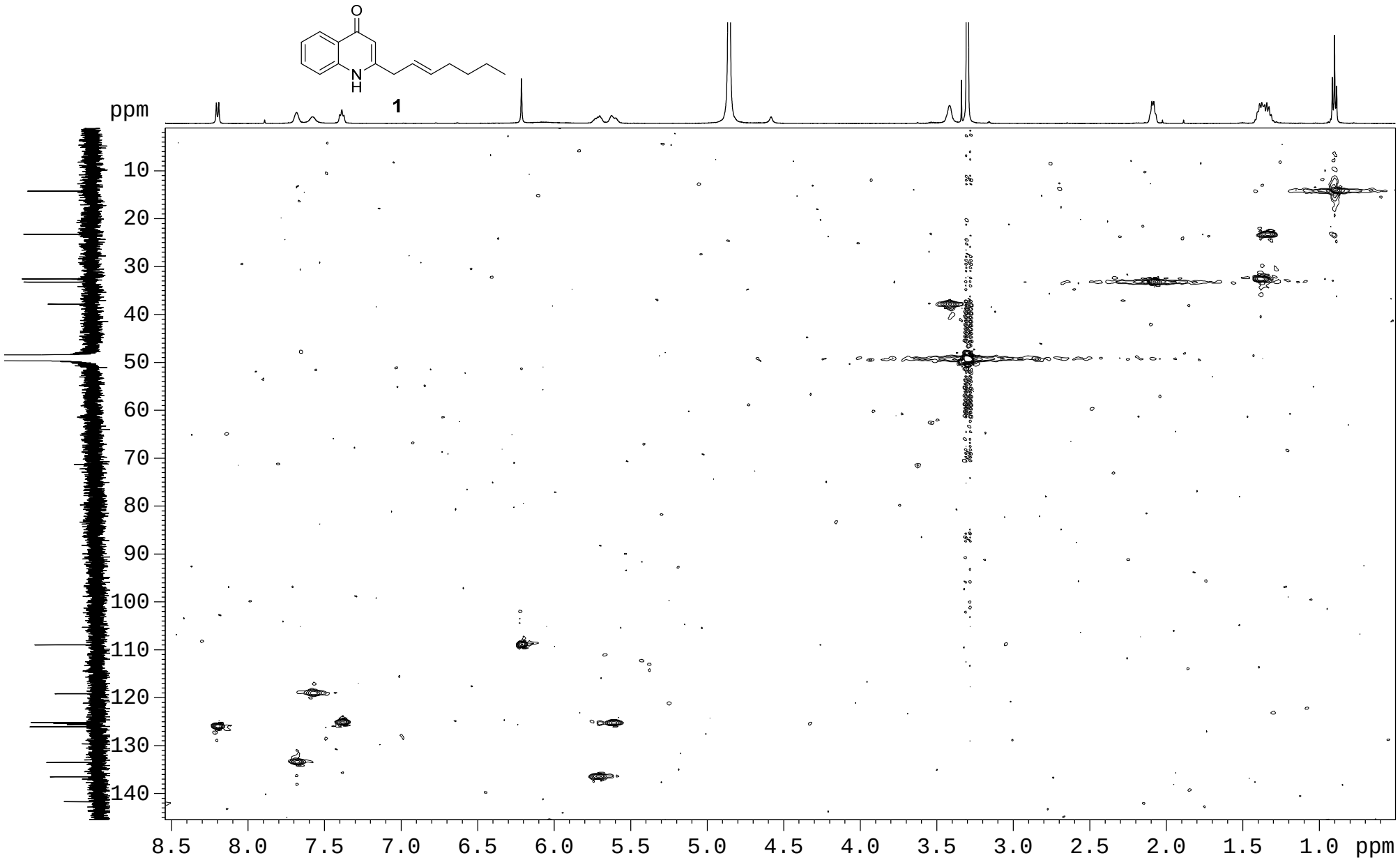

Figure S4: HSQC spectrum of (*E*)-2-(hept-2-en-1-yl)quinolin-4(1*H*)-one (**1**, 500 MHz, CH_3OD)

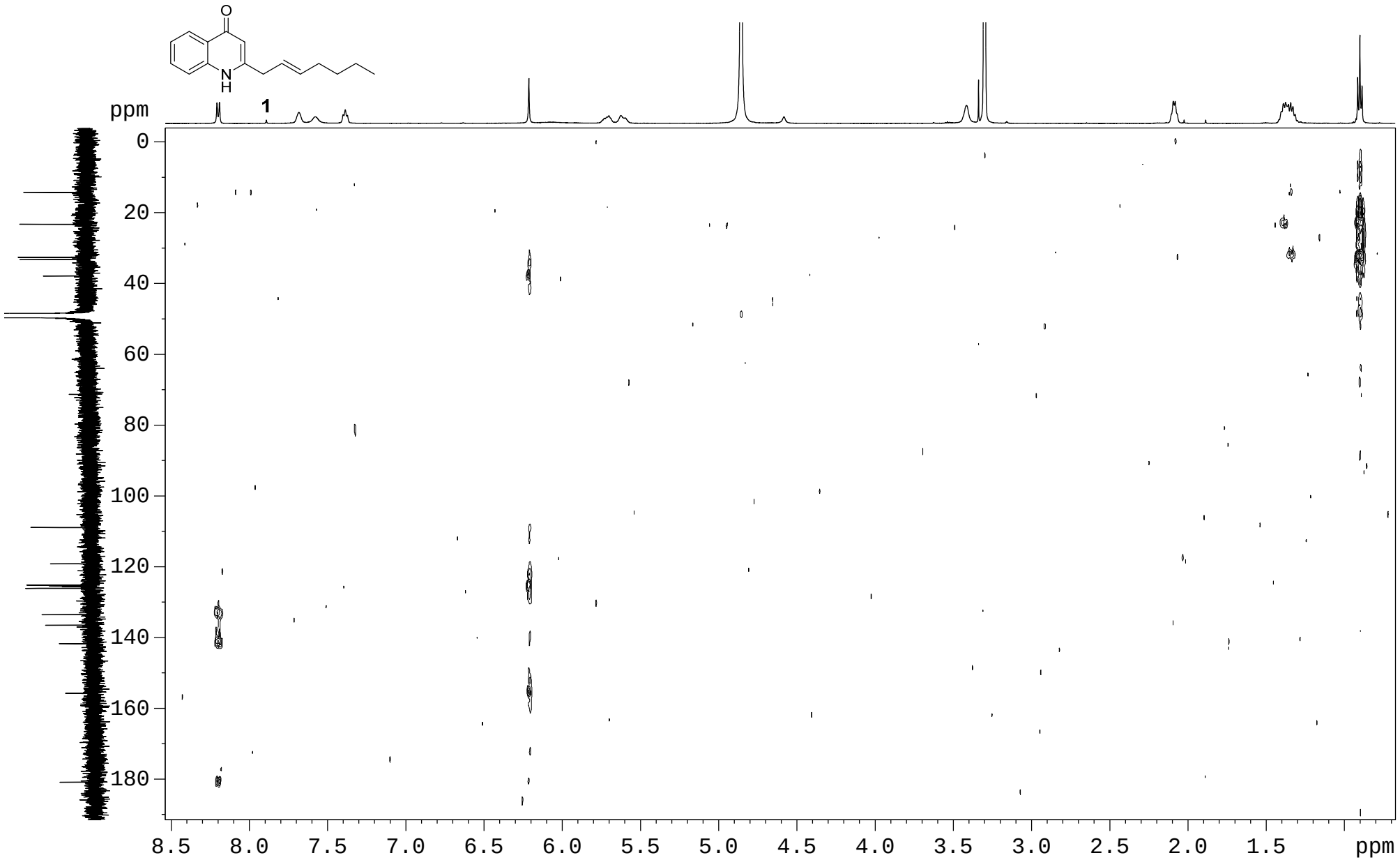

Figure S5: HMBC spectrum of (*E*)-2-(hept-2-en-1-yl)quinolin-4(1*H*)-one (**1**, 500 MHz, CH_3OD)

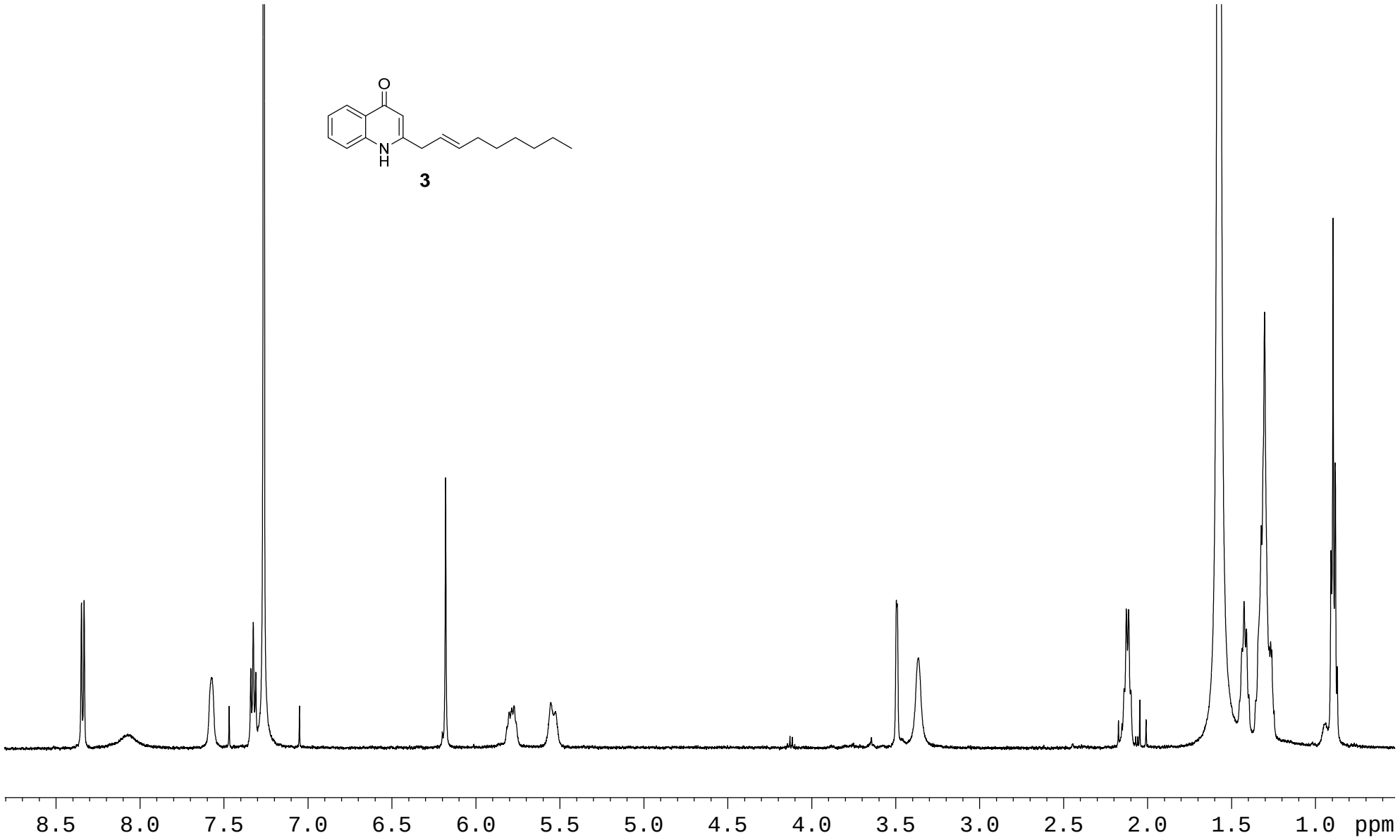

Figure S6: ^{1}H NMR spectrum of (*E*)-2-(non-2-en-1-yl)quinolin-4(1*H*)-one (**3**, 500 MHz, $CDCl_3$)

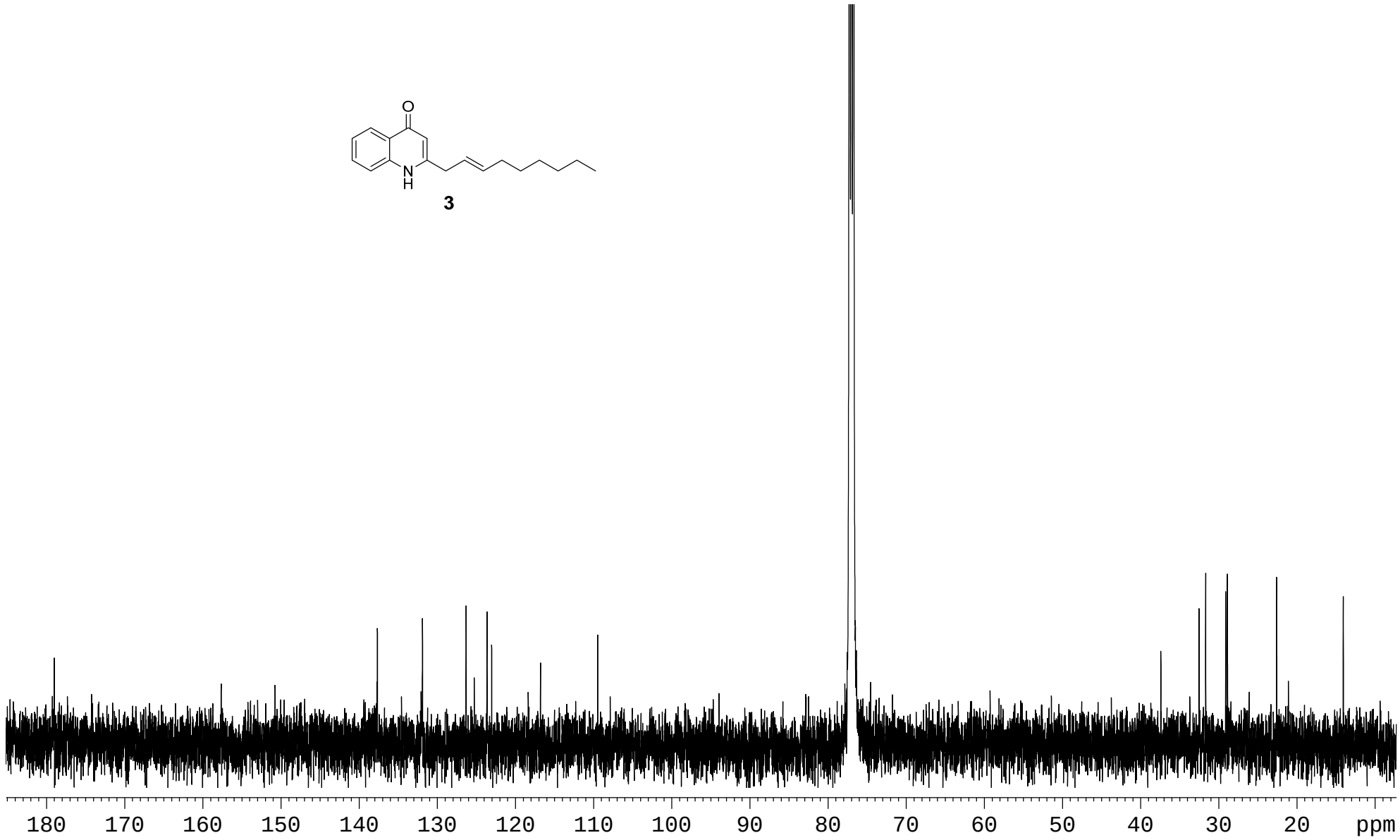

Figure S7: ^{13}C NMR spectrum of (*E*)-2-(non-2-en-1-yl)quinolin-4(1*H*)-one (**3**, 125 MHz, $CDCl_3$)

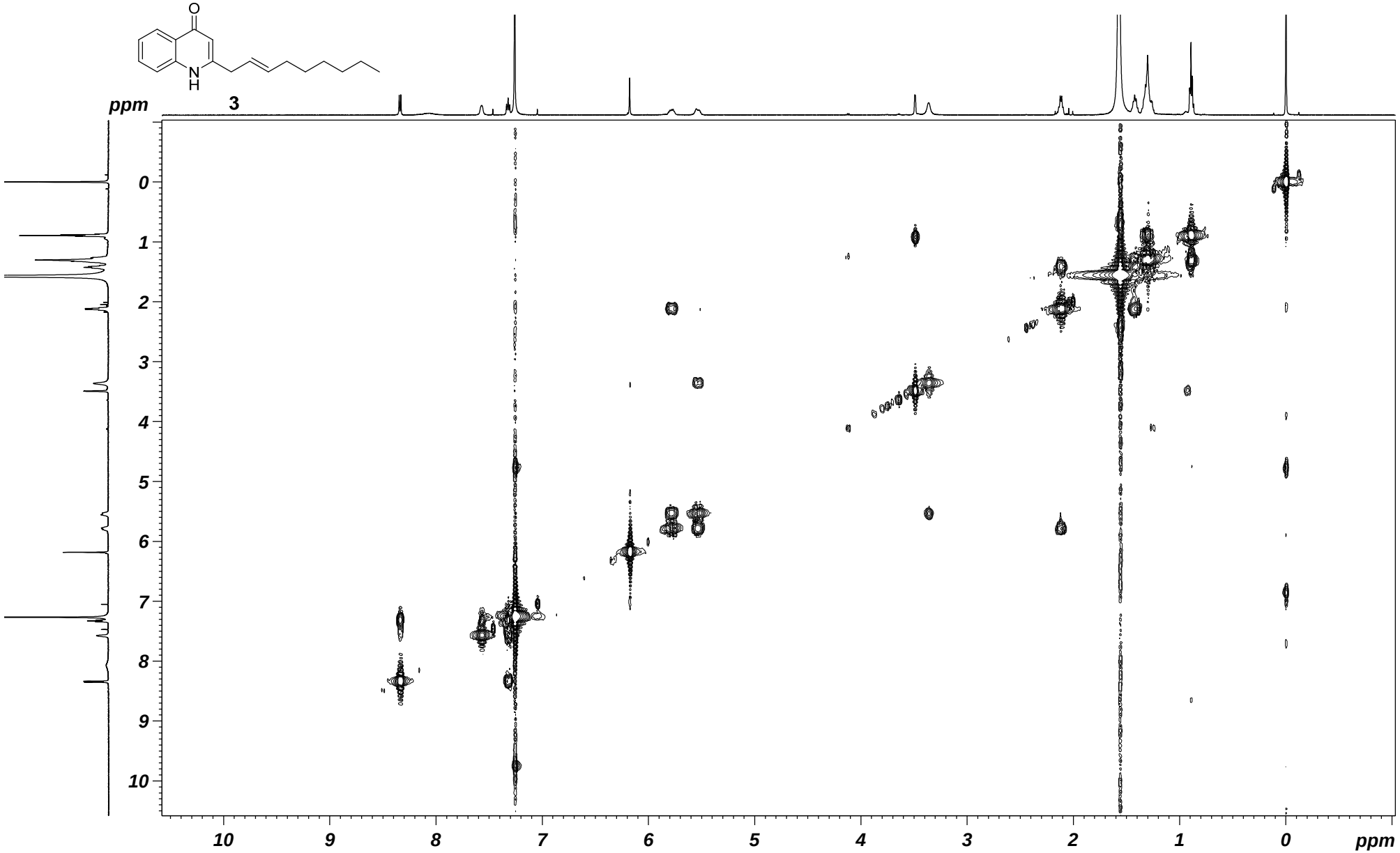

Figure S8: COSY spectrum of (*E*)-2-(non-2-en-1-yl)quinolin-4(1*H*)-one (**3**, 500 MHz, $CDCl_3$)

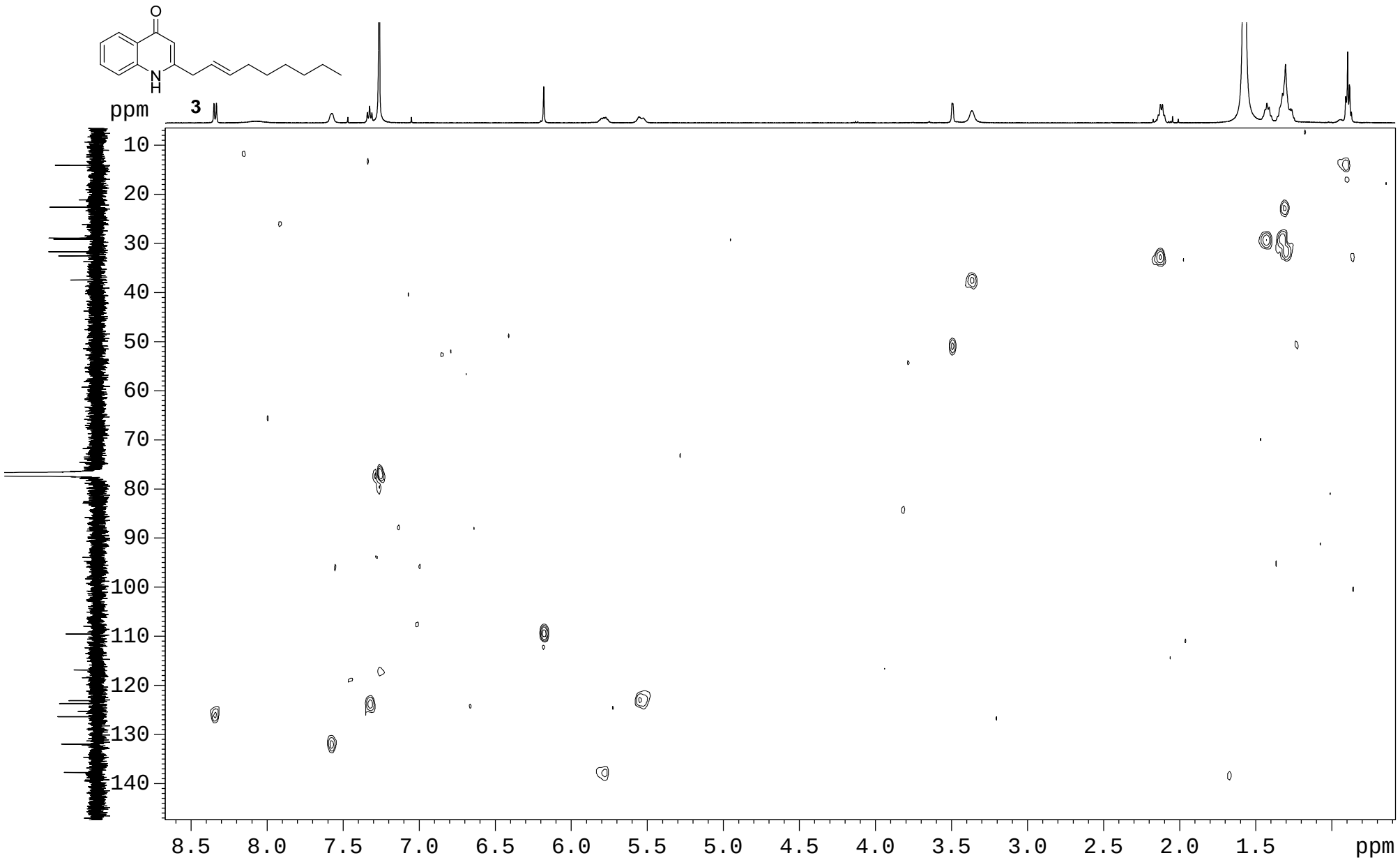

Figure S9: HSQC spectrum of (*E*)-2-(non-2-en-1-yl)quinolin-4(1*H*)-one (**3**, 500 MHz, $CDCl_3$)

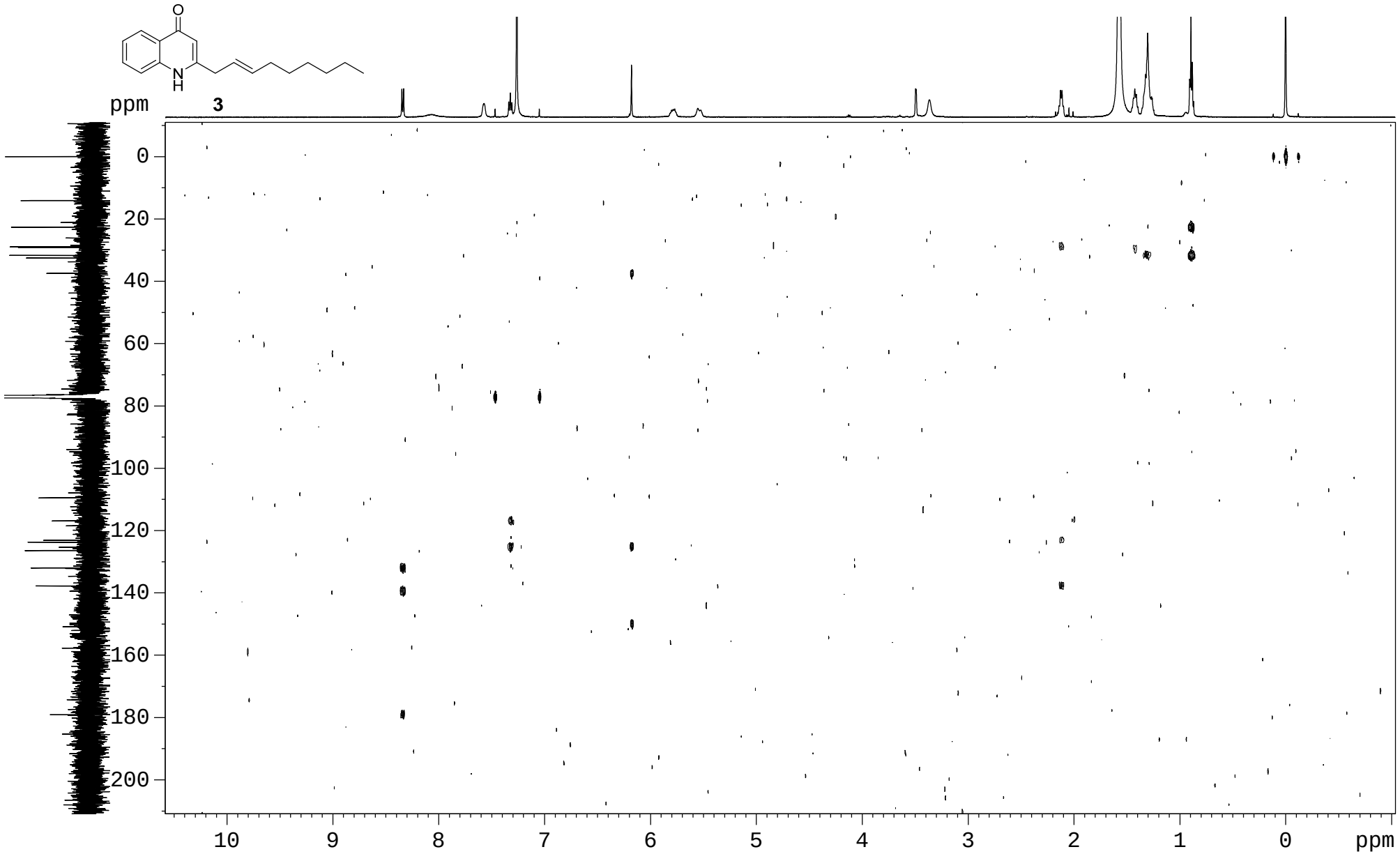

Figure S10: HMBC spectrum of (*E*)-2-(non-2-en-1-yl)quinolin-4(1*H*)-one (**3**, 500 MHz, $CDCl_3$)

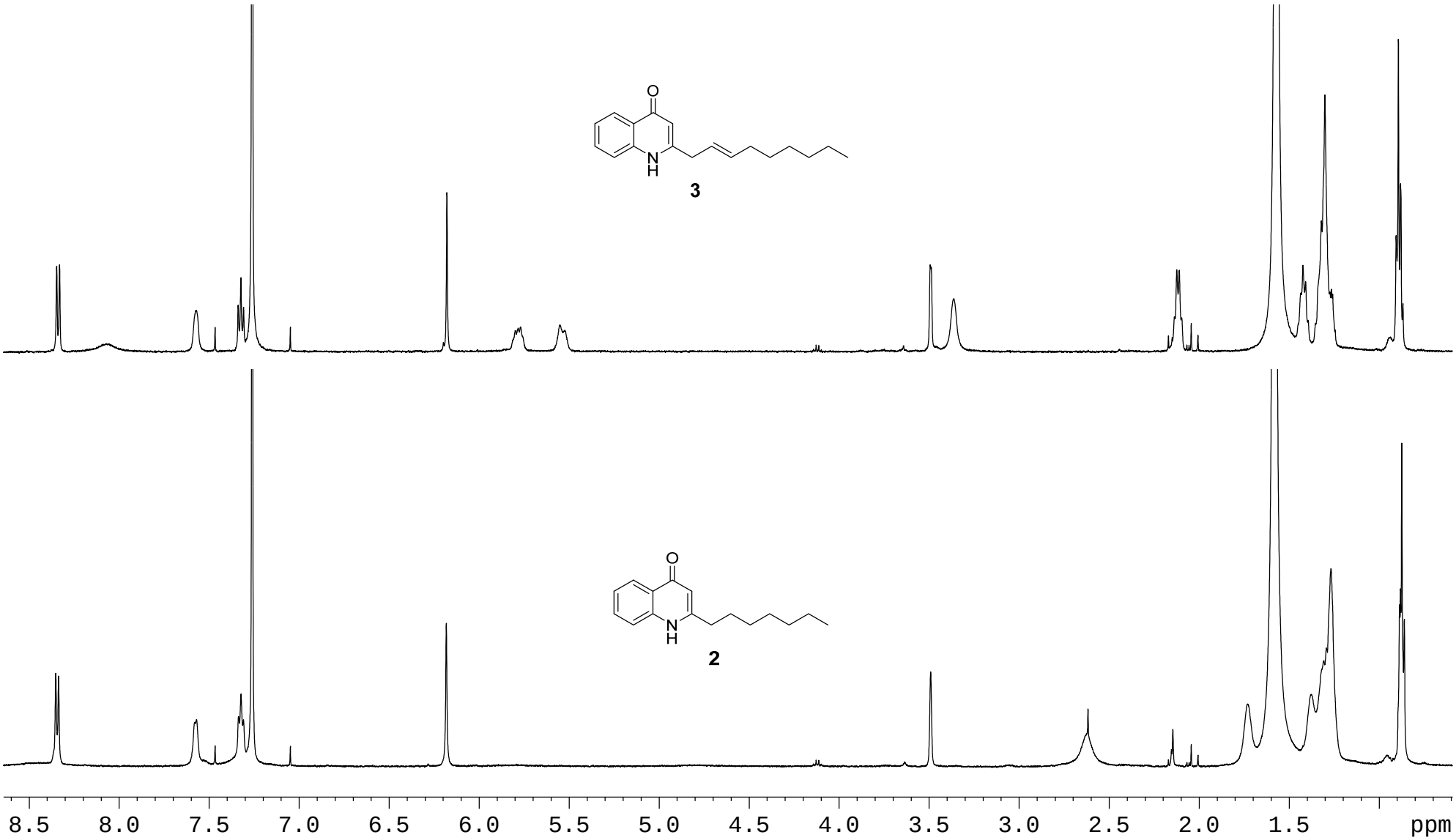

Figure S11: ^{1}H NMR spectral comparison between (*E*)-2-(non-2-en-1-yl)quinolin-4(1*H*)-one (**3**) and heptylquinolin-4(1*H*)-one (**2**, 500 MHz, $CDCl_3$)

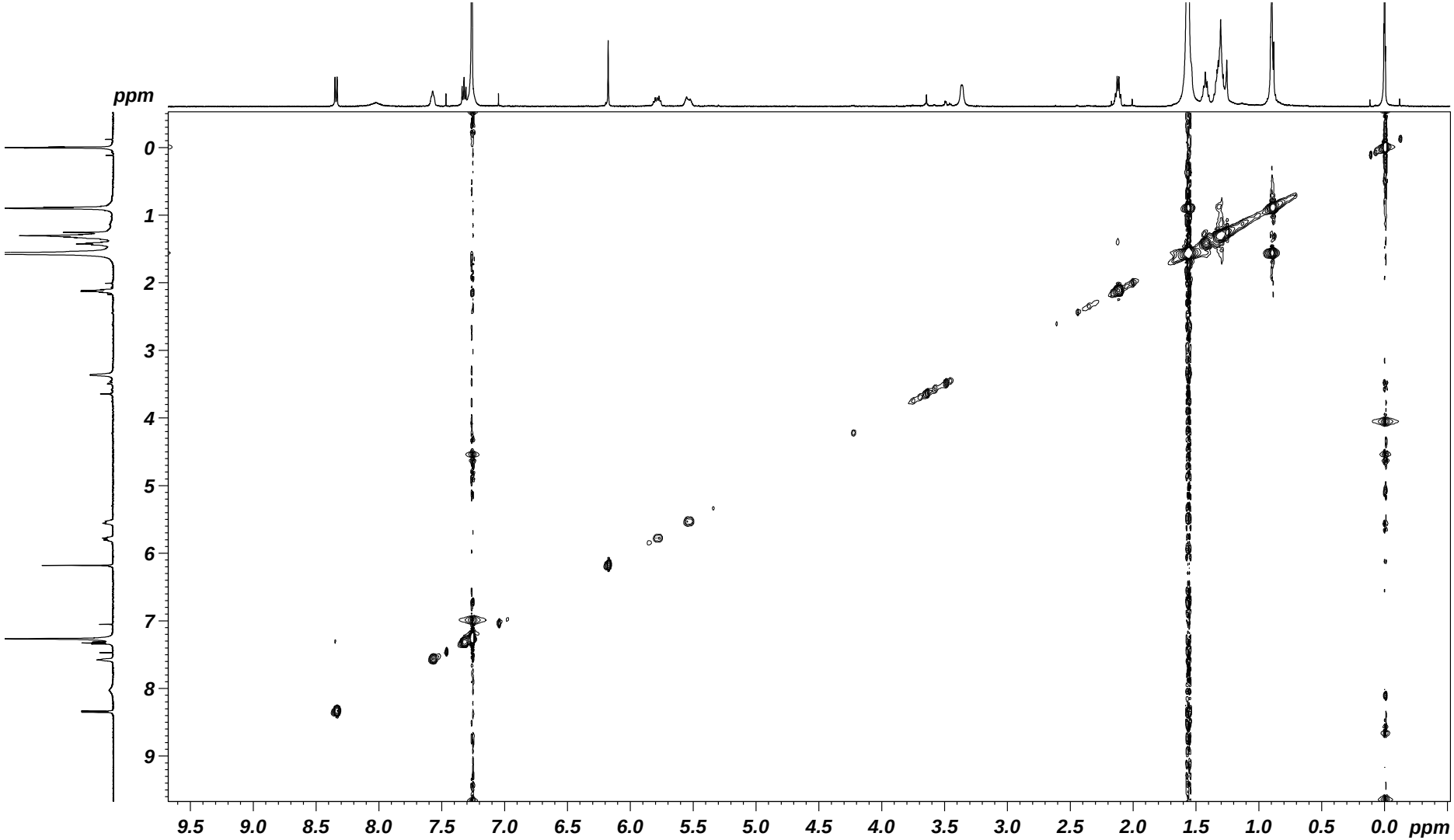

Figure S12: NOESY spectrum of (*E*)-2-(non-2-en-1-yl)quinolin-4(1*H*)-one (**3**, 500 MHz, $CDCl_3$, mixing time= 550 ms)