

Palladium catalyzed oxidation of terpenes with molecular oxygen: oxidation of α -bisabolol under chloride-free conditions

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Supplementary Information

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Product characterization data -----S2-S6

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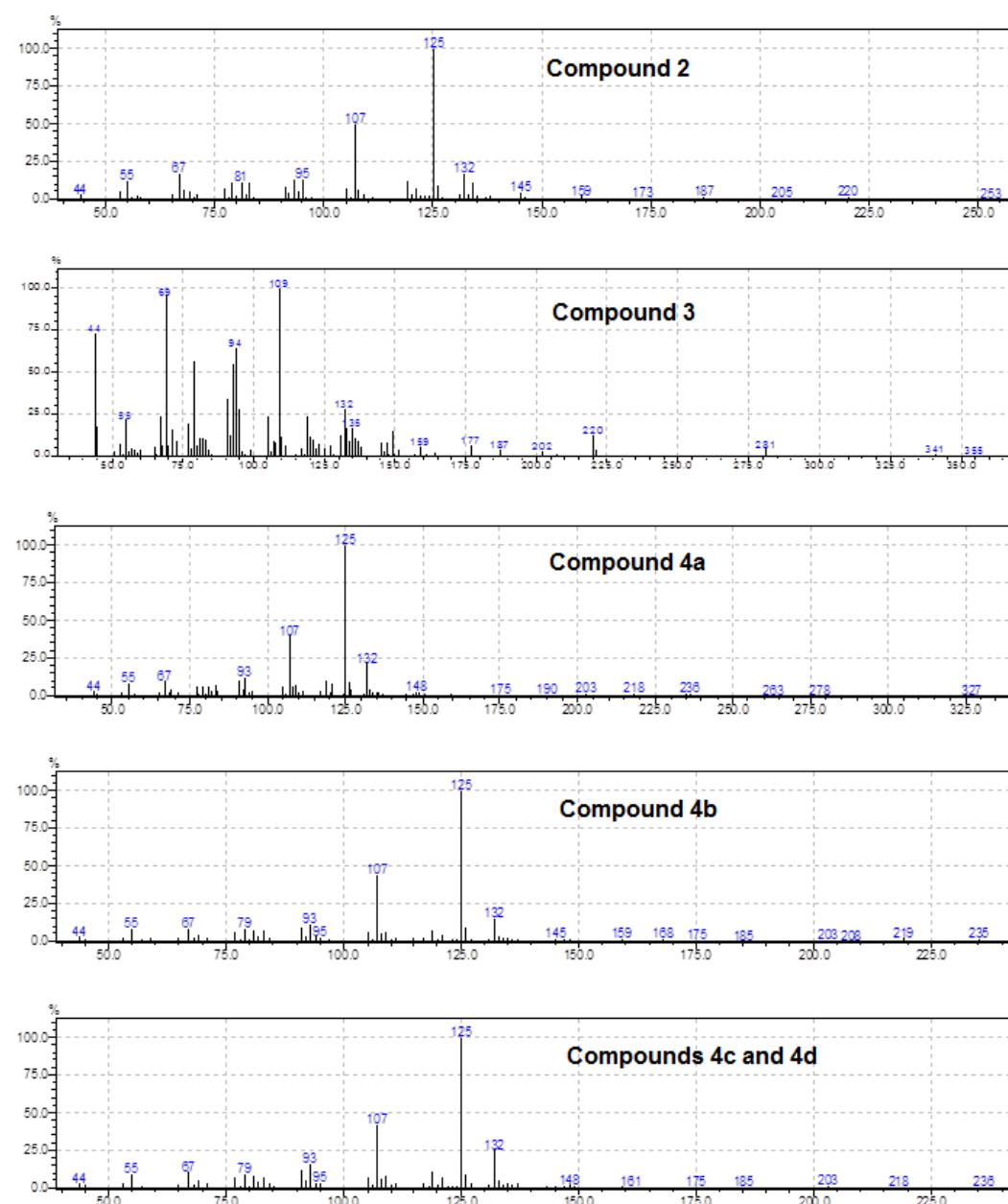


Fig. S1. Mass spectra of compounds **2**, **3**, **4a**, **4b** and **4c and 4d** (the structures are shown in Figures 2–5).

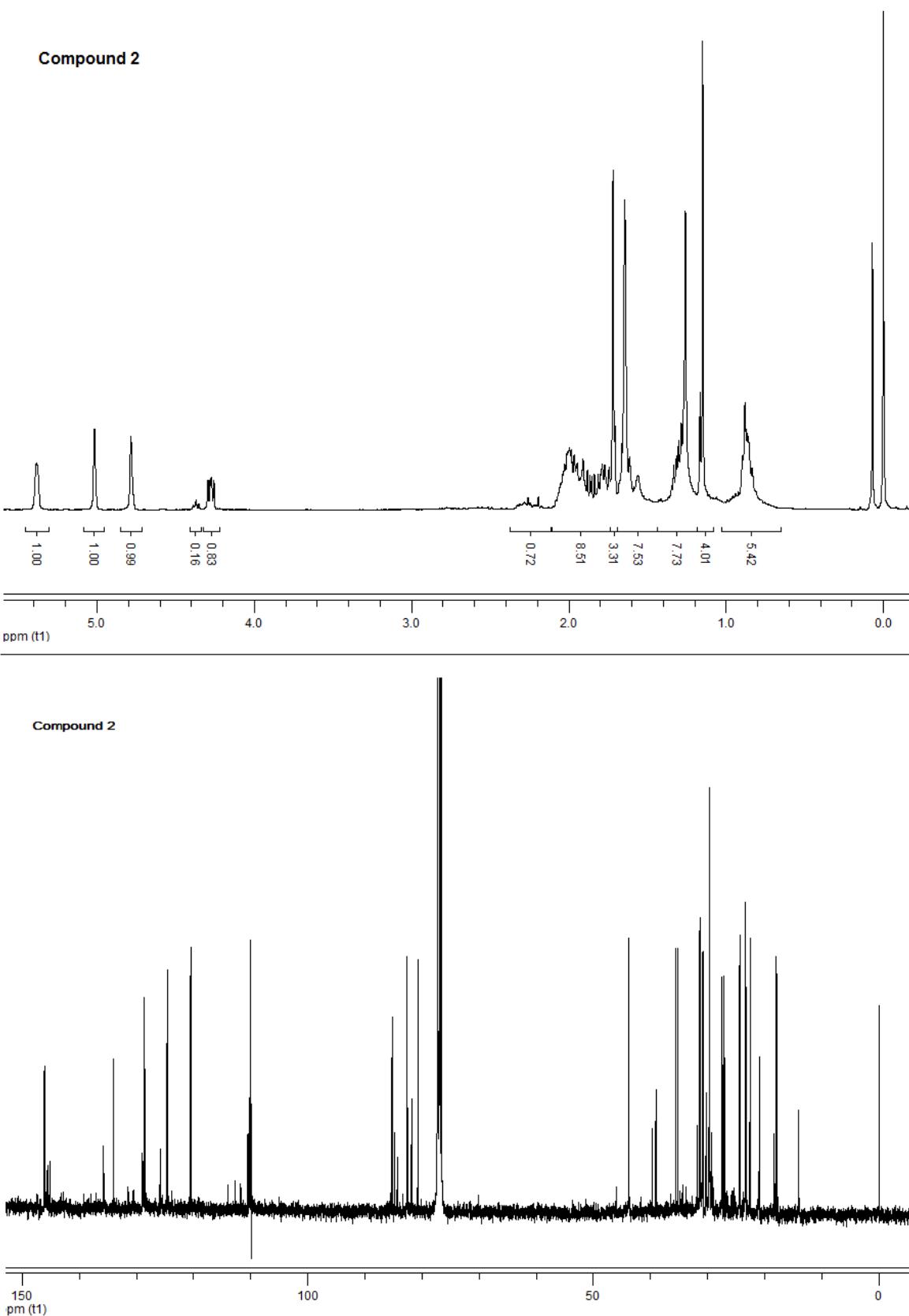


Fig. S2. ¹H and ¹³C spectra of compound 2

Compound 3

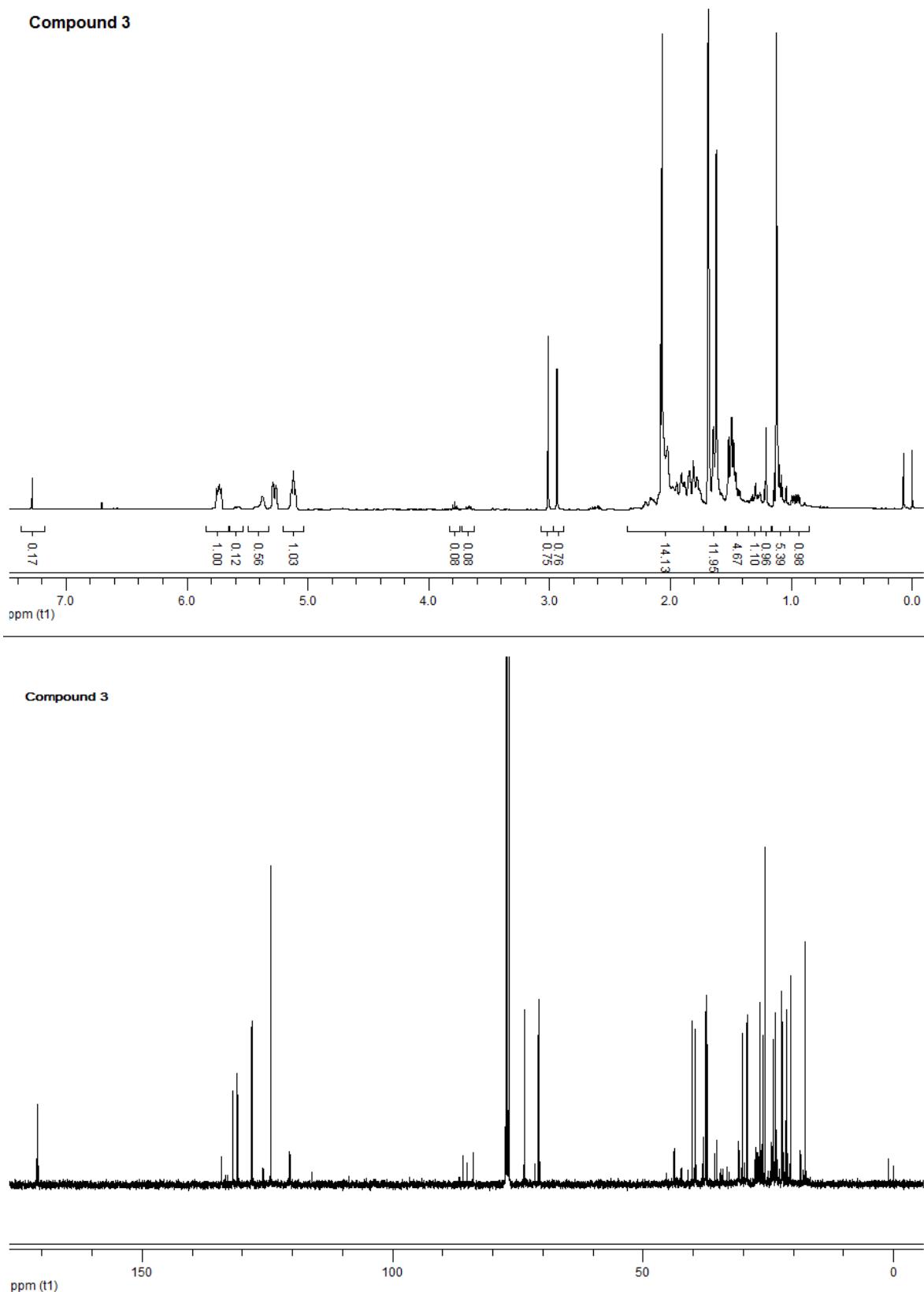
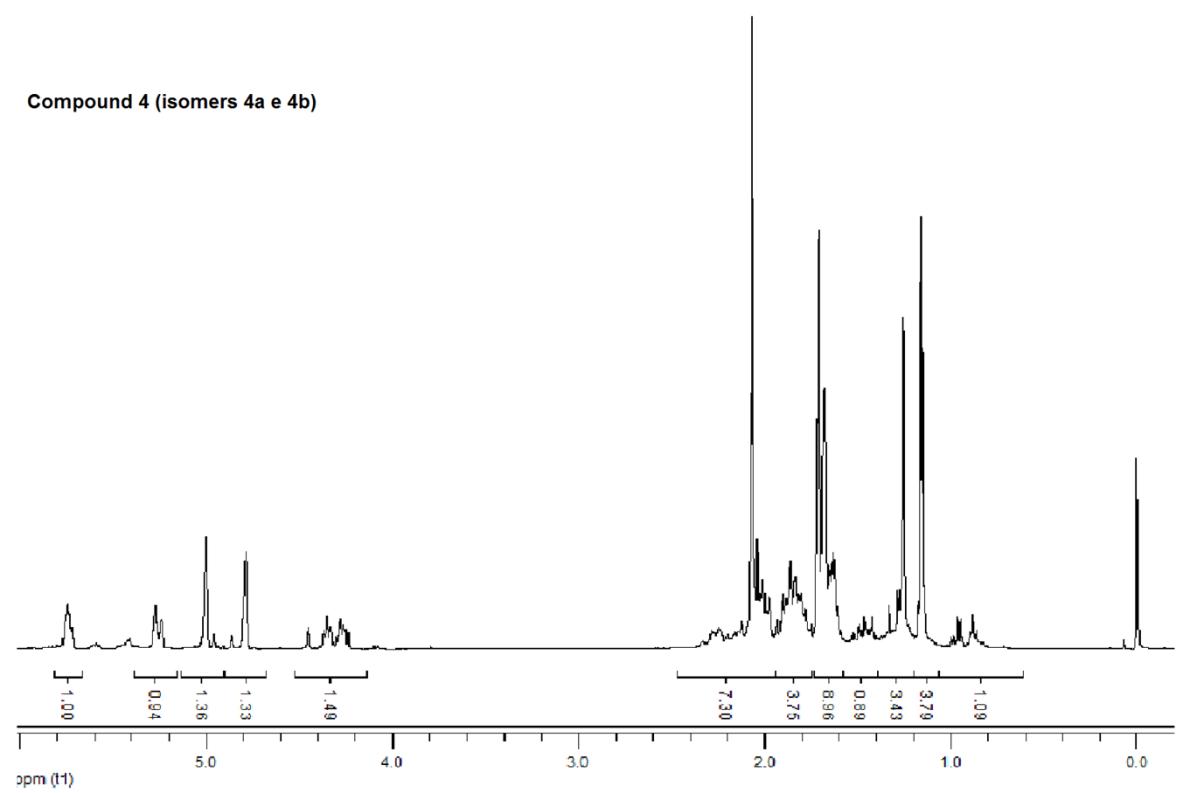


Fig. S3. ^1H and ^{13}C spectra of compound 3

Compound 4 (isomers 4a e 4b)



Compound 4 (isomers 4a e 4b)

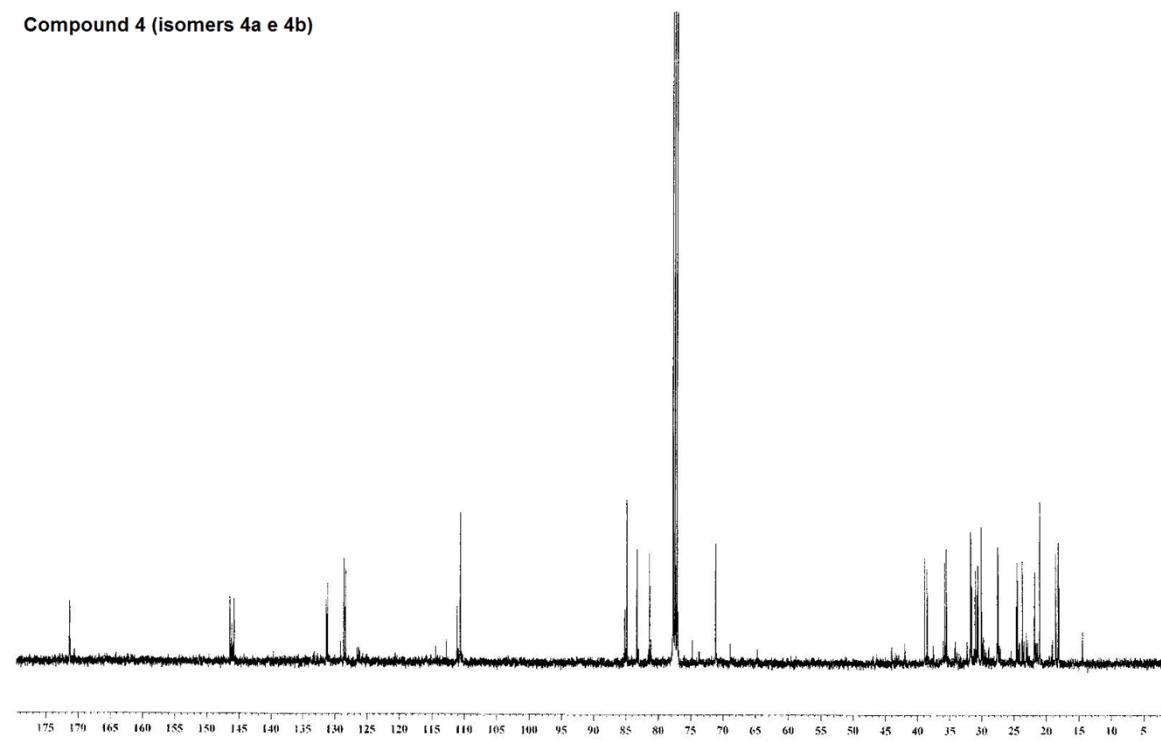
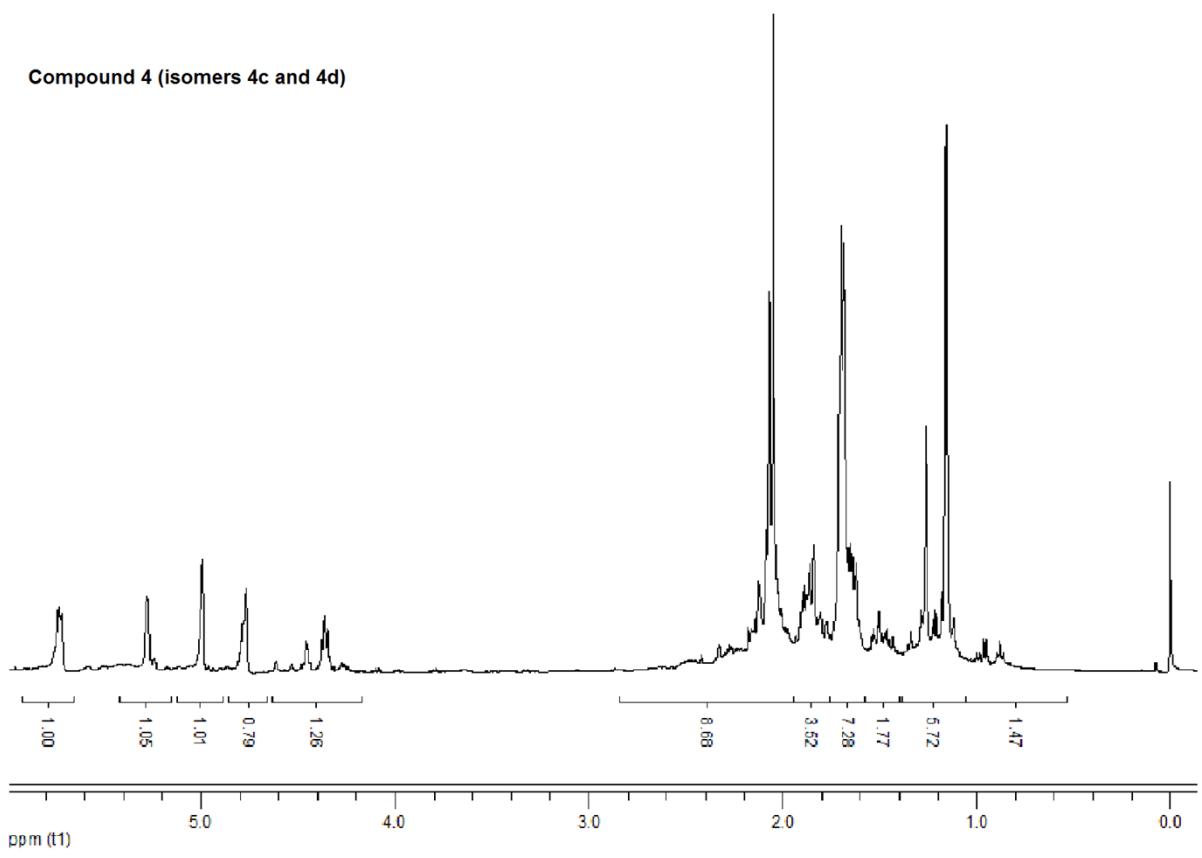


Fig. S4. ¹H and ¹³C spectra of compound 4 (the solution contains isomers 4a and 4b).

Compound 4 (isomers 4c and 4d)



Compound 4 (isomers 4c and 4d)

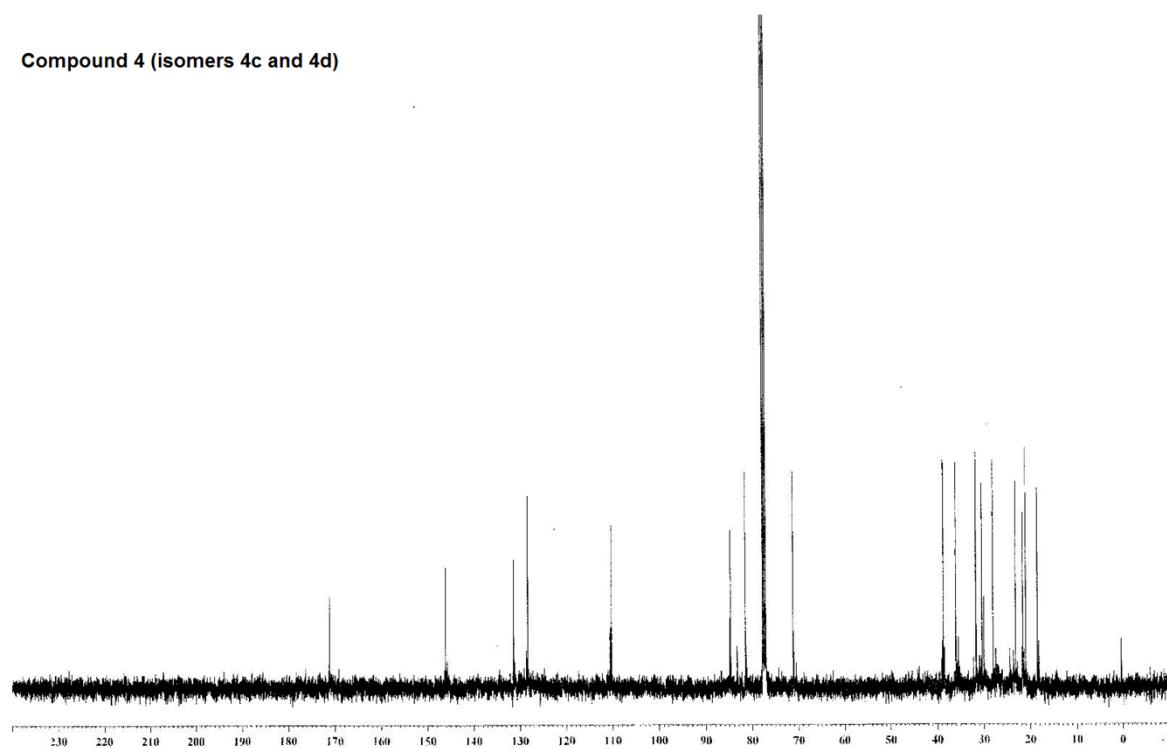


Fig. S5. ¹H and ¹³C spectra of compound 4 (the solution contains isomers 4c and 4d).