


Supplementary Information

Unexpected Rearrangement and Aromatization on Dehydration Reaction of the Bioactive Diterpenequinone 7 α -Hydroxyroyleanone

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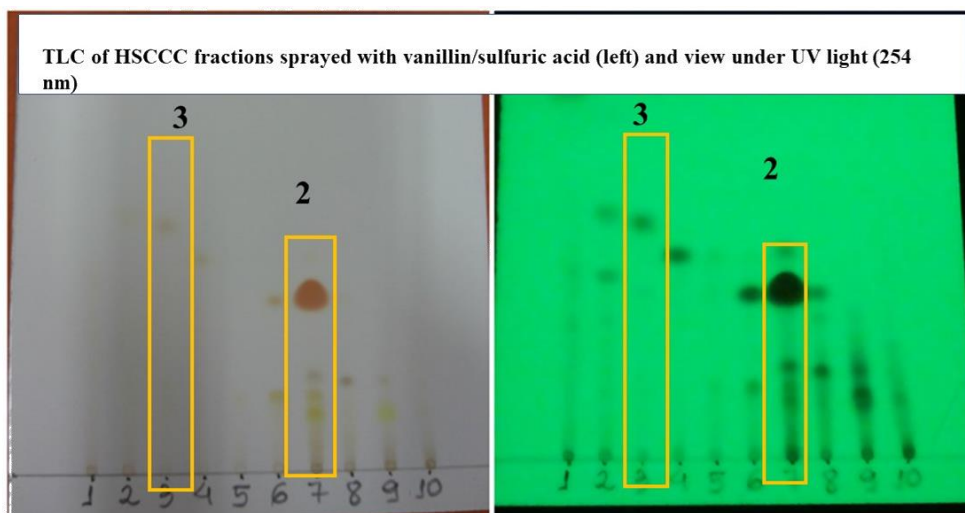


Figure S1. Thin-layer chromatography (TLC) plate (silica gel, AIF₂₅₄, developed with hexane-ethyl acetate 7:3 and sprayed with vanillin-sulfuric acid, left and visualization under UV light, 254 nm, right) of the high-speed countercurrent chromatography (HSCCC) fractionation of the reaction products.

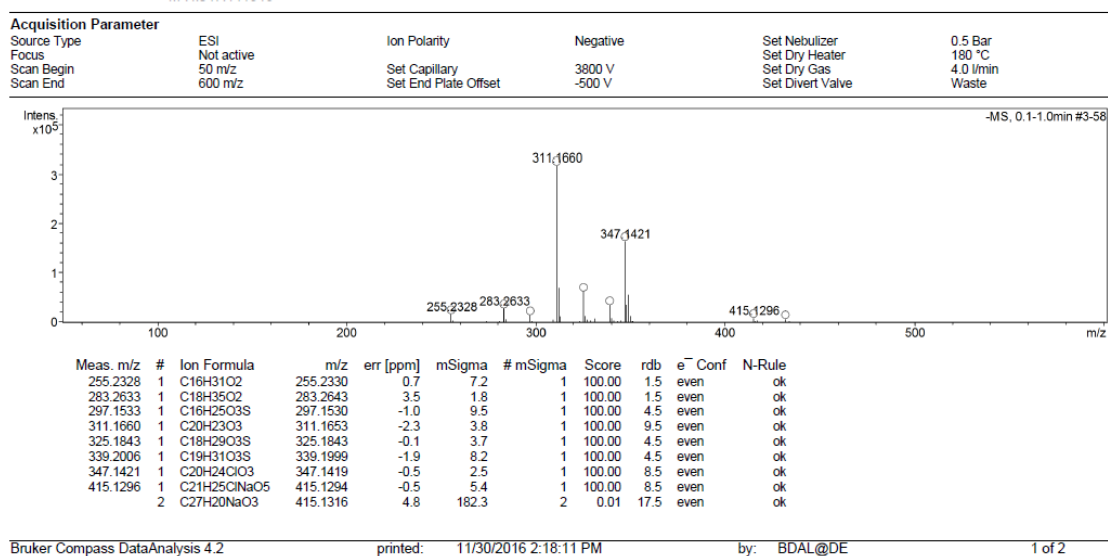


Figure S2. High-resolution electrospray ionization mass spectrometry (HR-ESI-MS) of compound 2.

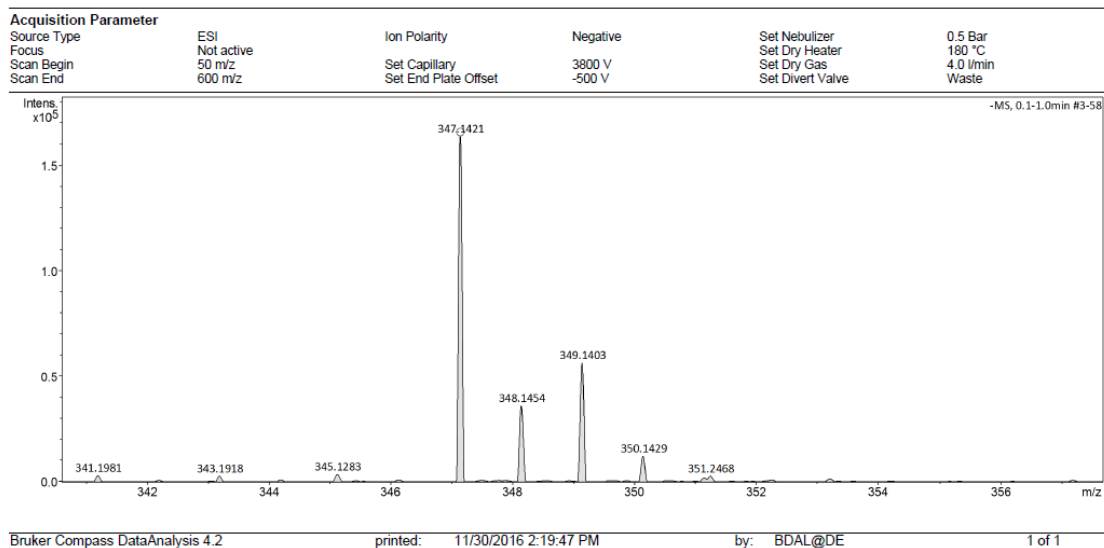


Figure S3. Expanded HR-ESI-MS of compound **2**.

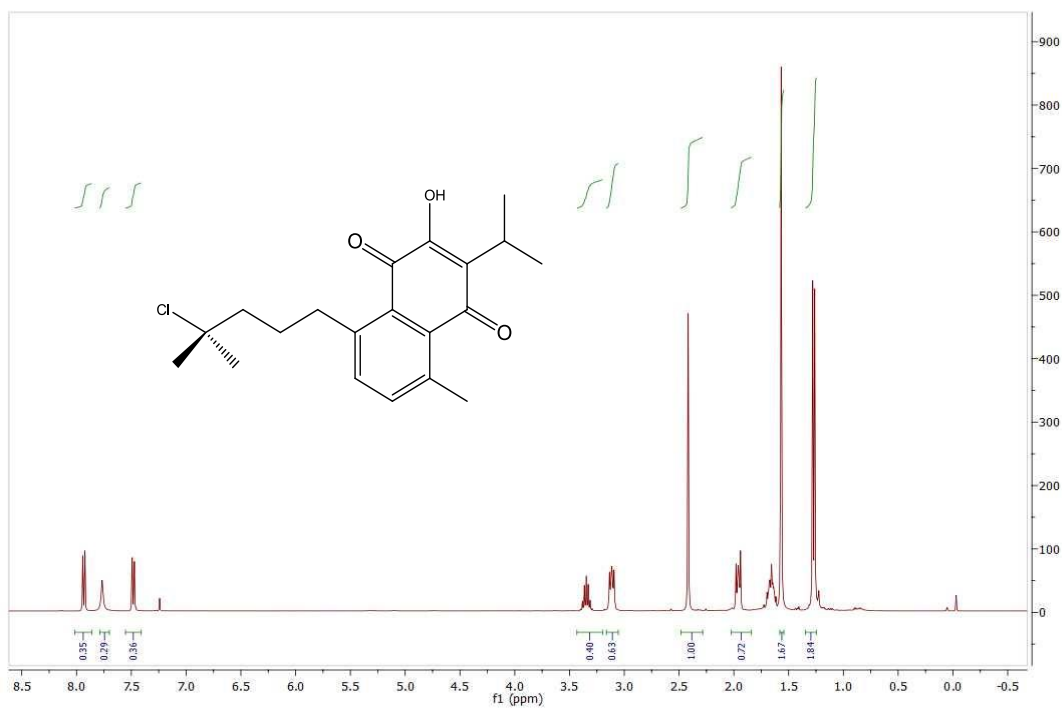


Figure S4. ¹H nuclear magnetic resonance (NMR) spectrum of compound **2** (400 MHz, CDCl₃).

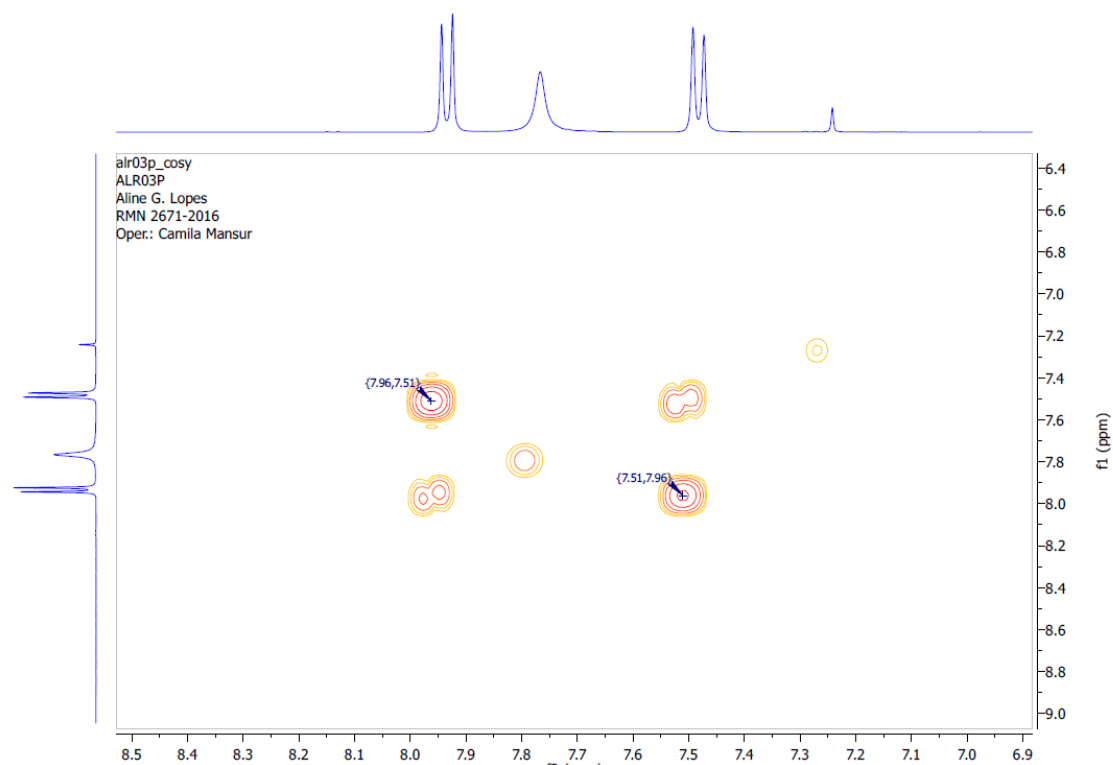


Figure S5. Selected correlations of correlated spectroscopy (COSY) ^1H - ^1H spectrum of compound **2** (400 MHz, CDCl_3).

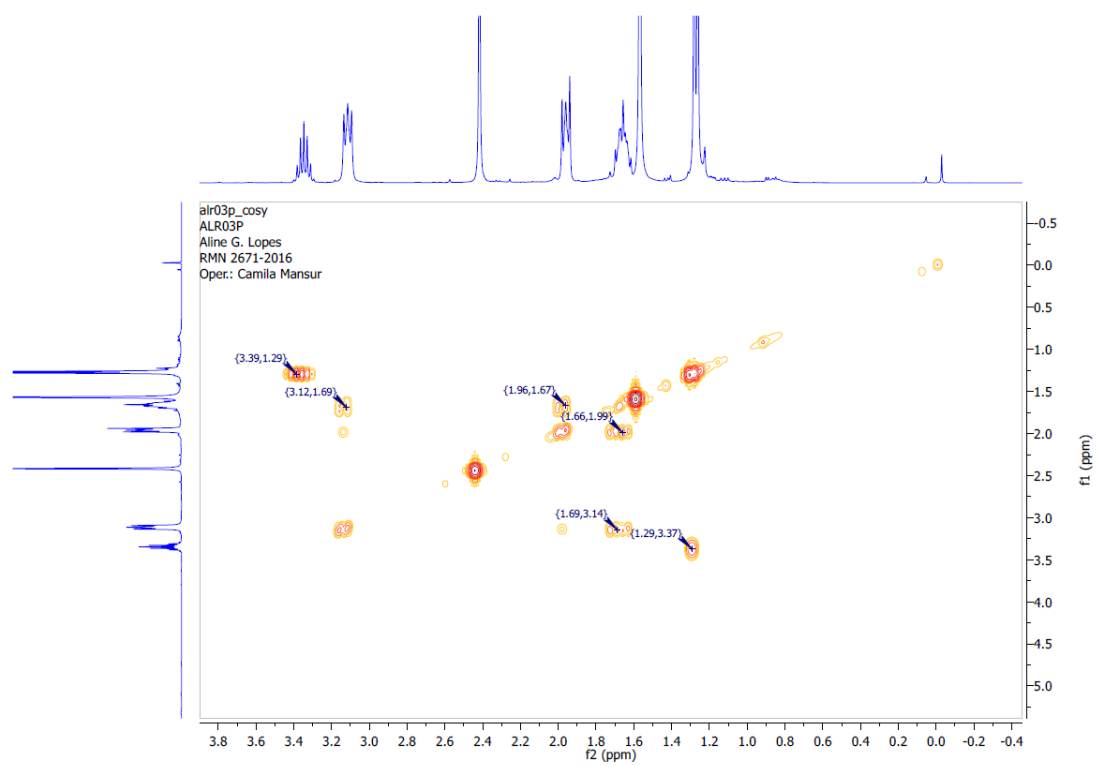


Figure S6. Selected correlation of COSY ^1H - ^1H spectrum of compound **2** (400 MHz, CDCl_3).



Figure S7. Attached proton test (APT) spectrum of compound **2** (100MHz, CDCl₃).

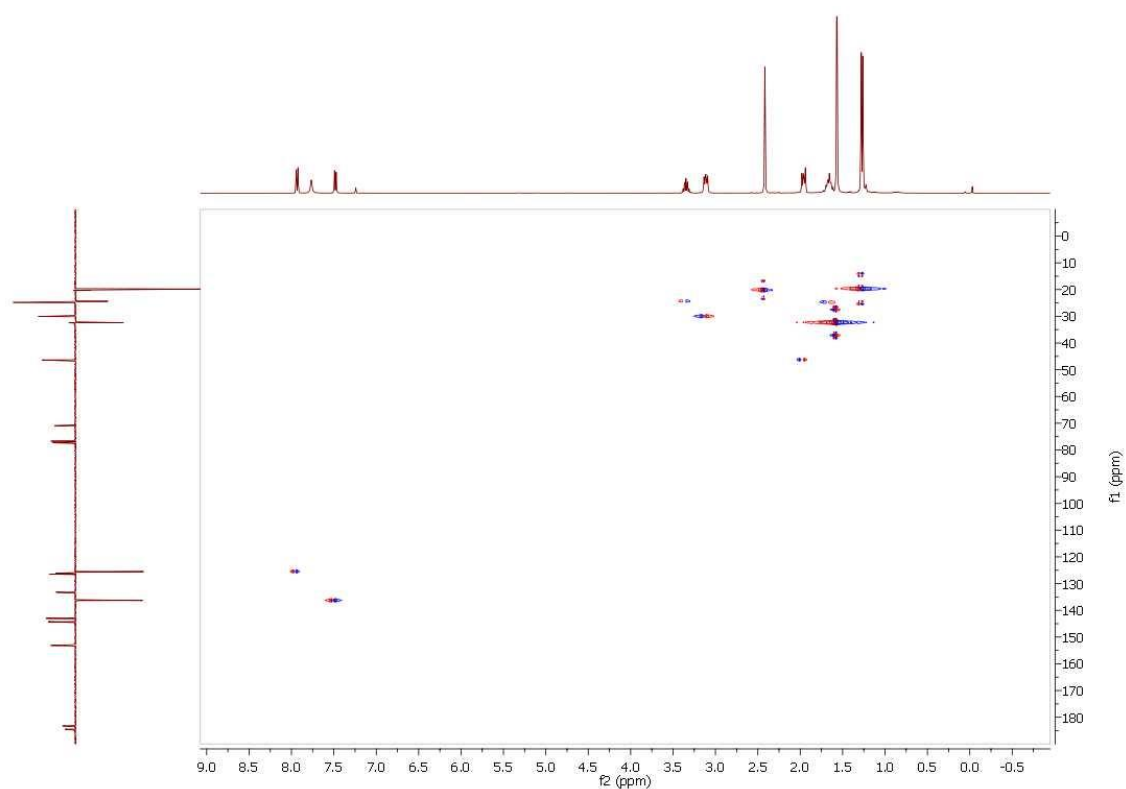


Figure S8. Heteronuclear single quantum coherence (HSQC) spectrum of **2** (400 MHz and 100 MHz).

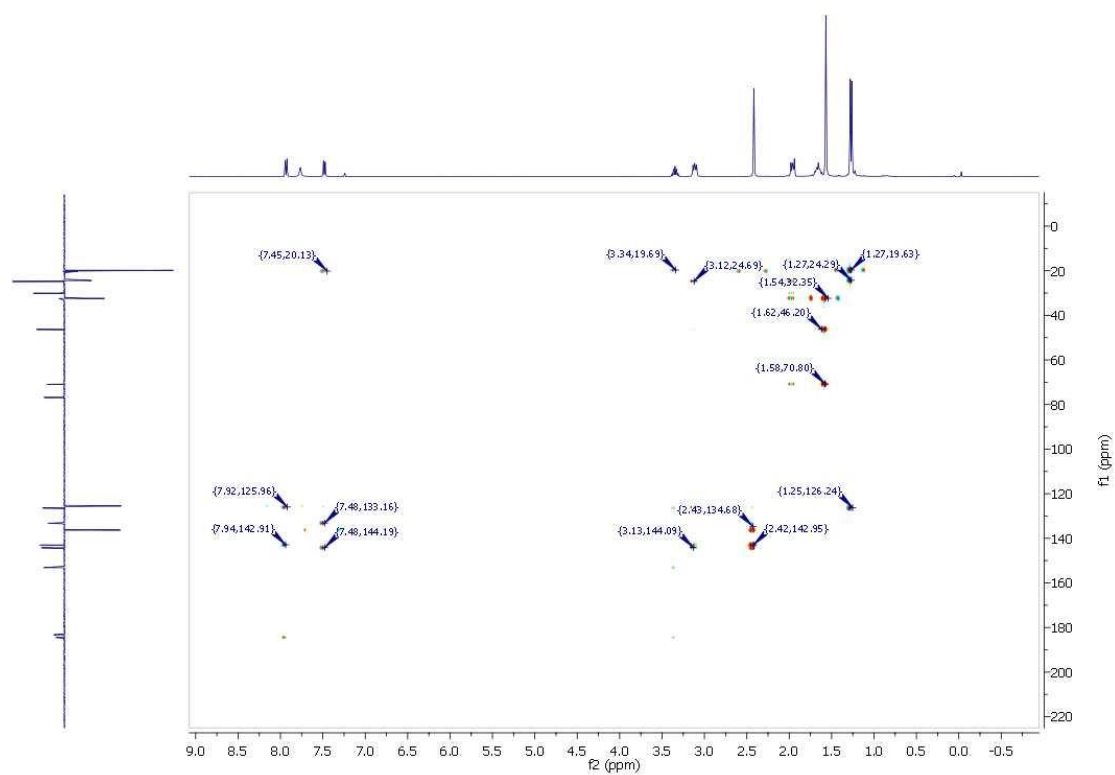


Figure S9. Heteronuclear multiple bond correlation (HMBC) correlations of compound **2** (400 MHz and 100 MHz).

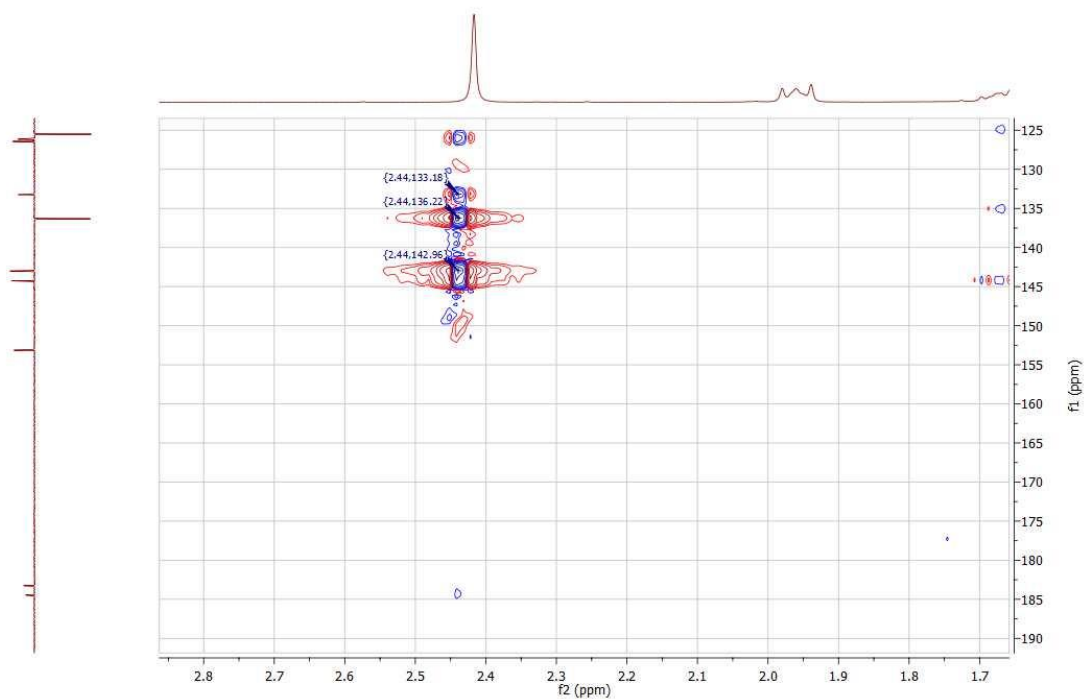


Figure S10. Selected HMBC correlations of compound **2** (H8b, aromatic methyl group, 400 MHz and 100 MHz).

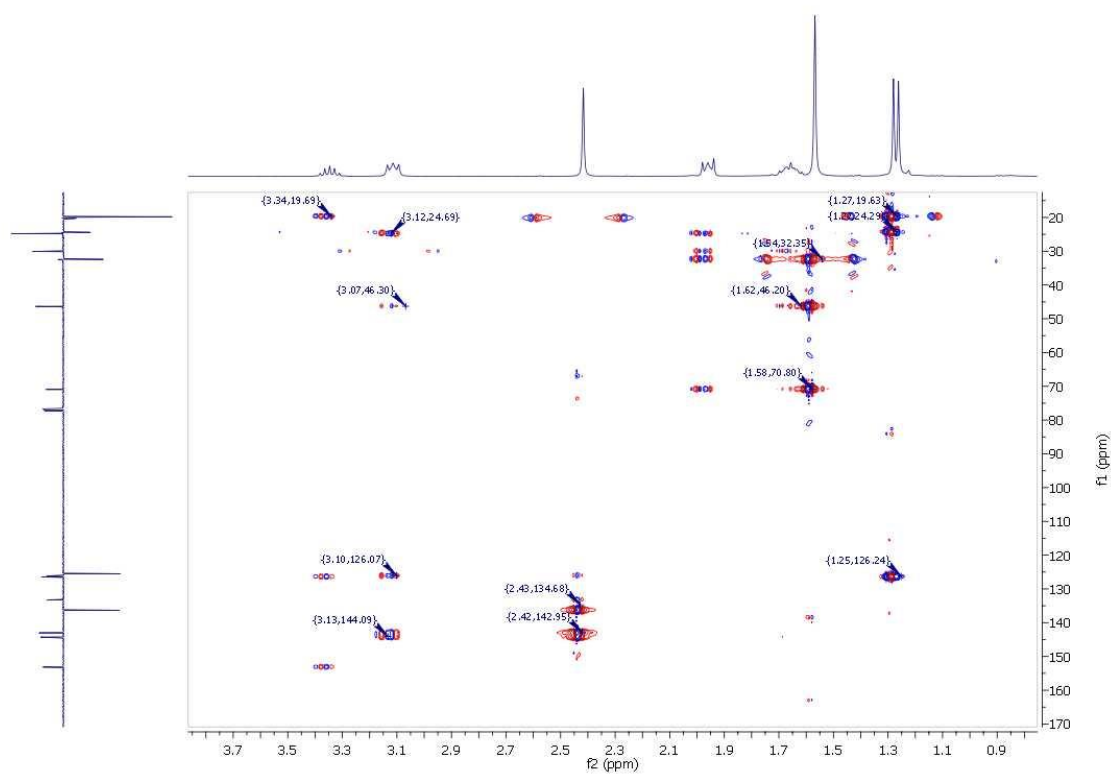


Figure S11. Selected HMBC correlations of compound **2** (H5a with C-5, C5b and C-4a, 400 MHz and 100 MHz).

