

Ipericum 2023 NMR

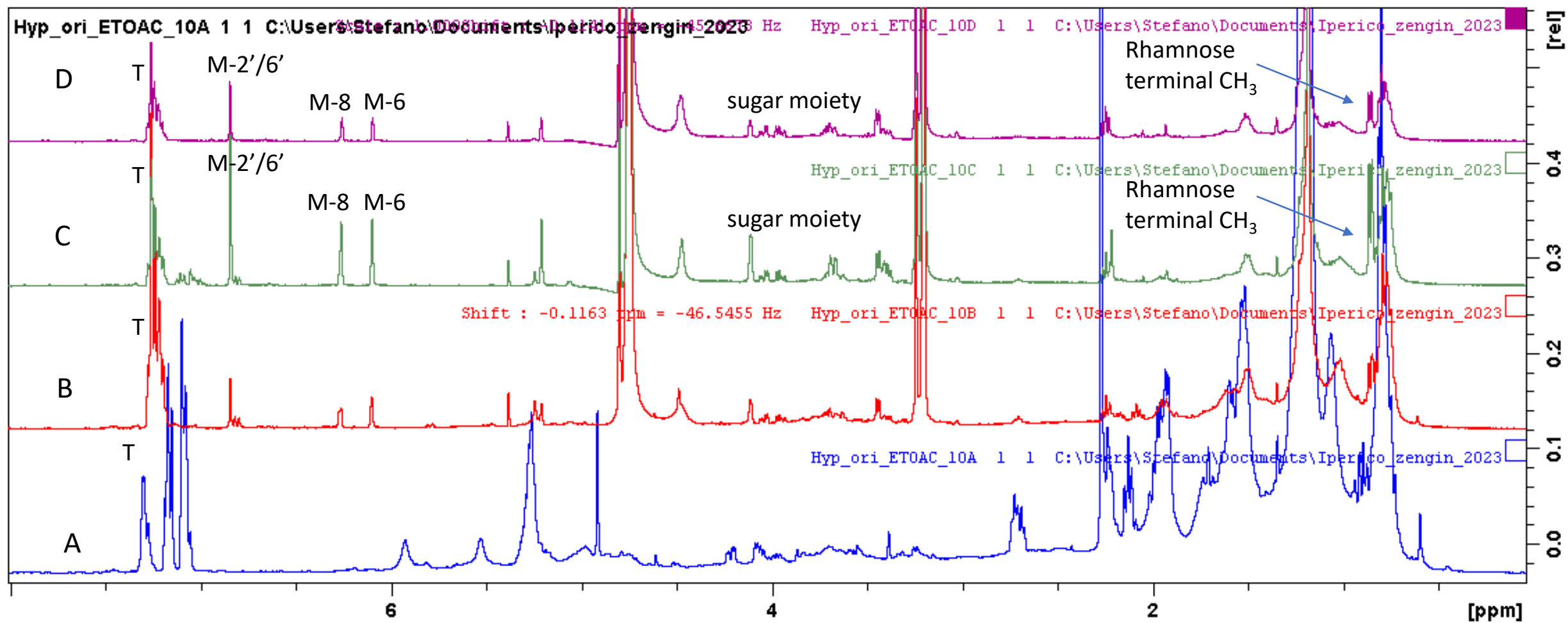


Figure S1: superimposition of the Ethyl Acetate fraction of *H. organifolium*.

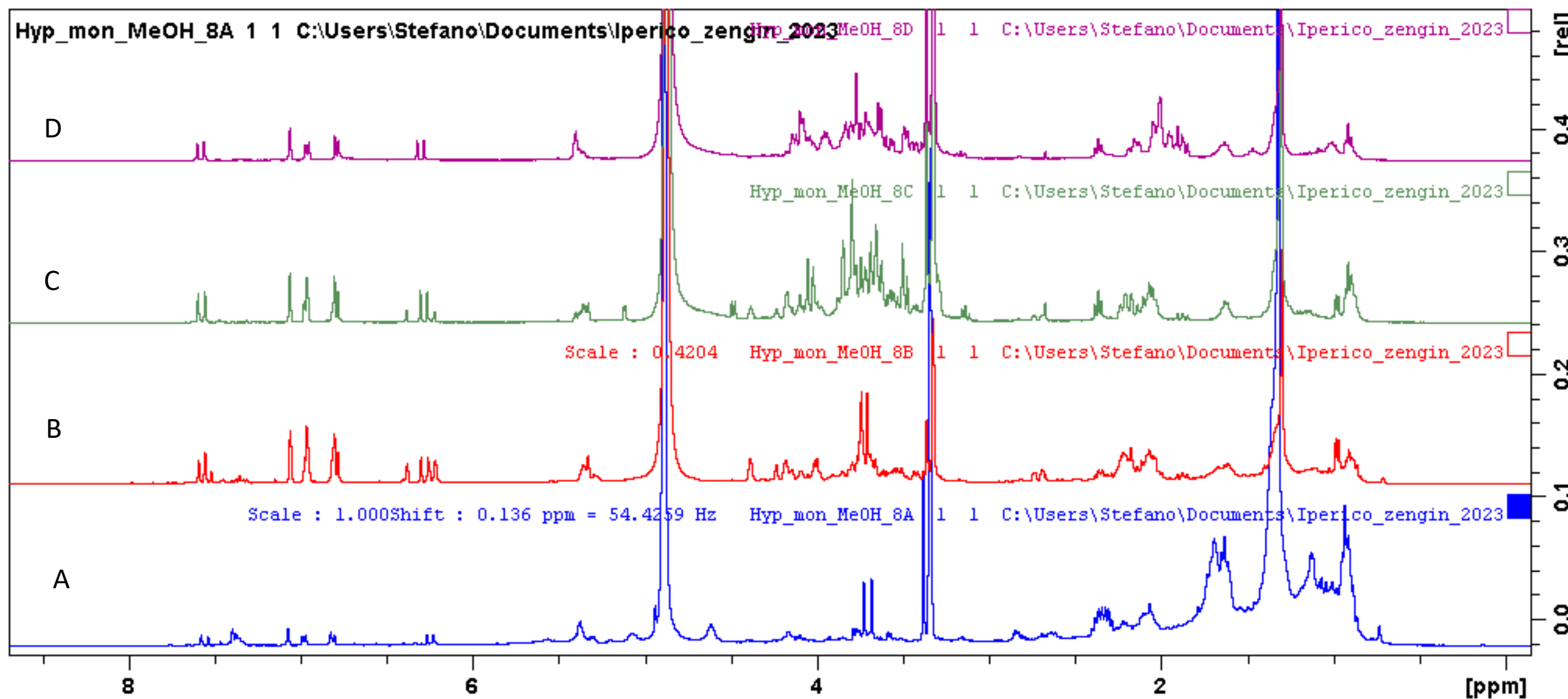


Figure S2: superimposition of the methanol fraction of *H. montbretii*.

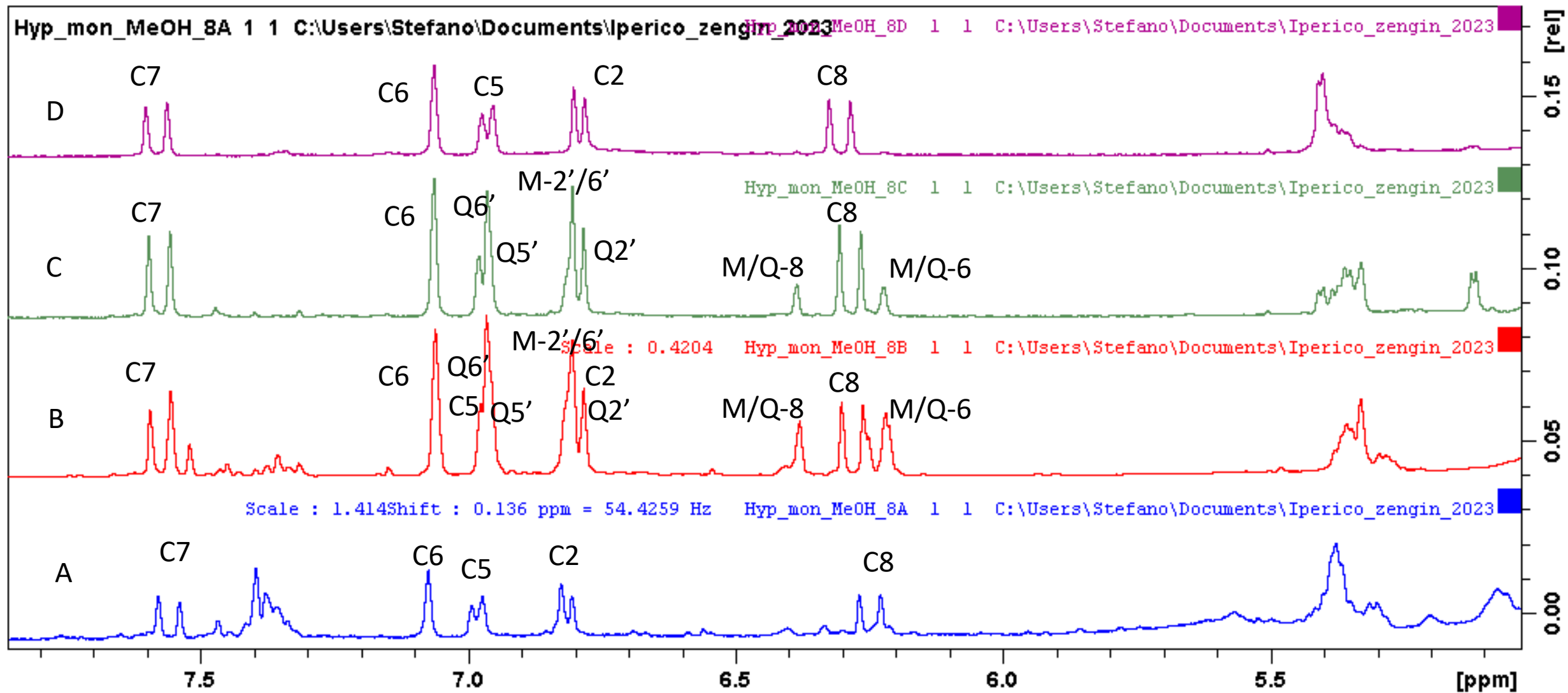


Figure S3: superimposition of the methanol fraction of *H. montbretii* enlargement of spectral region 4,5-8,0 ppm.

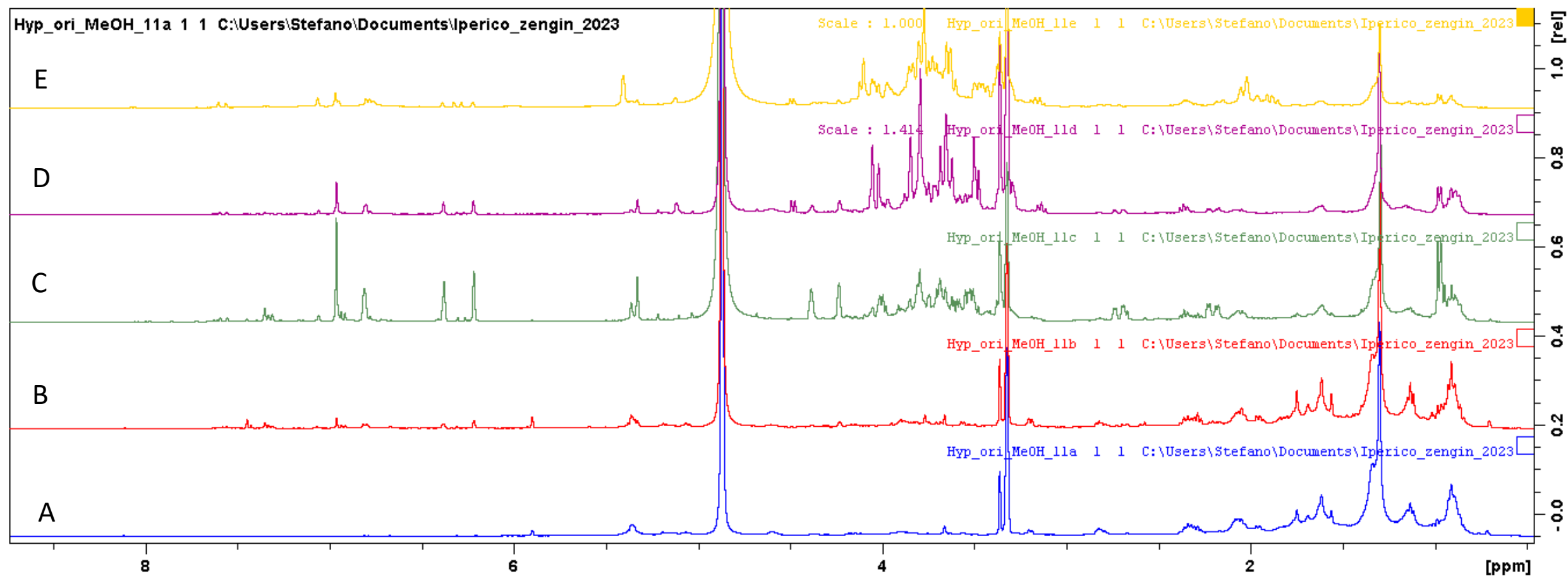


Figure S4: superimposition of the methanol fraction of *H. origanifolium*.

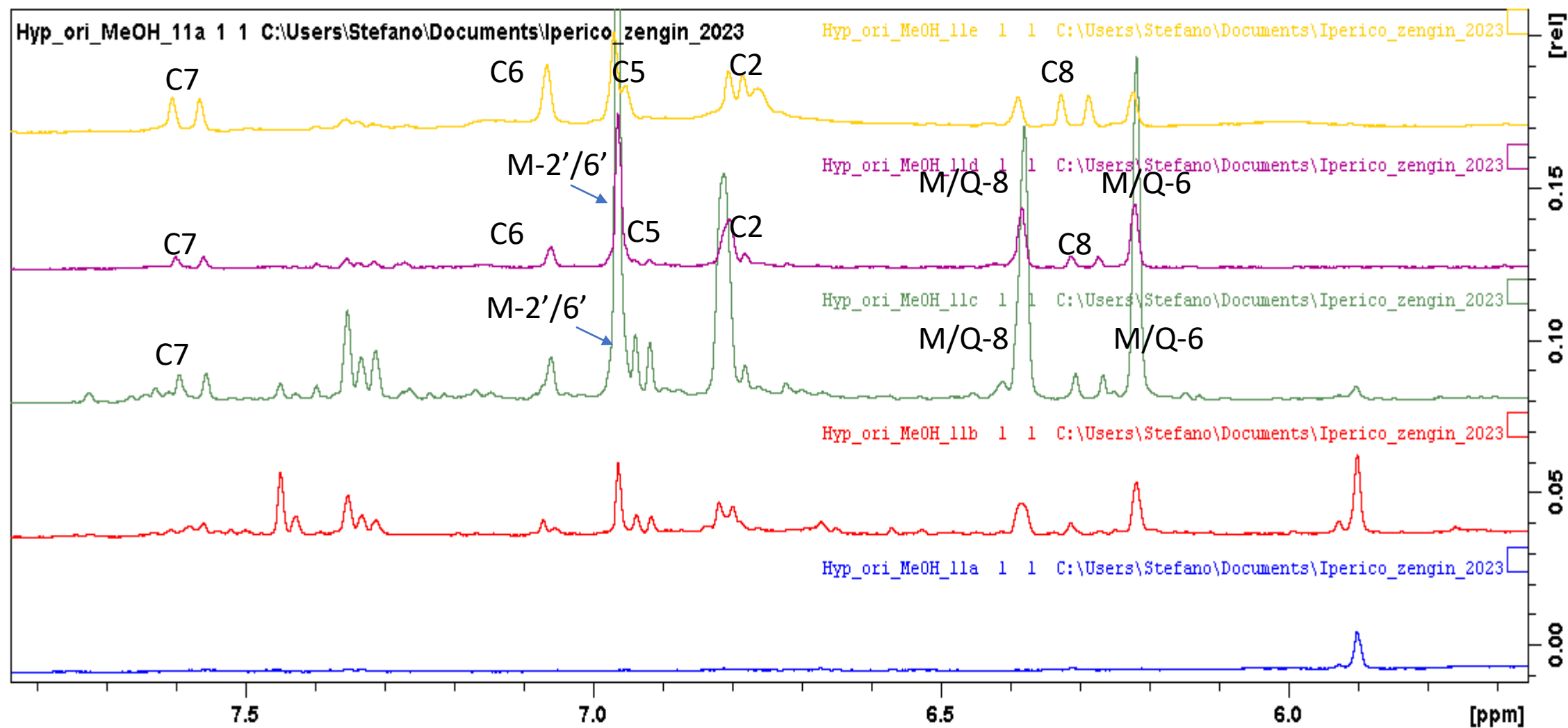


Figure S5: superimposition of the methanol fraction of *H. organifolium* enlargement of spectral region 4,5-8,0 ppm.

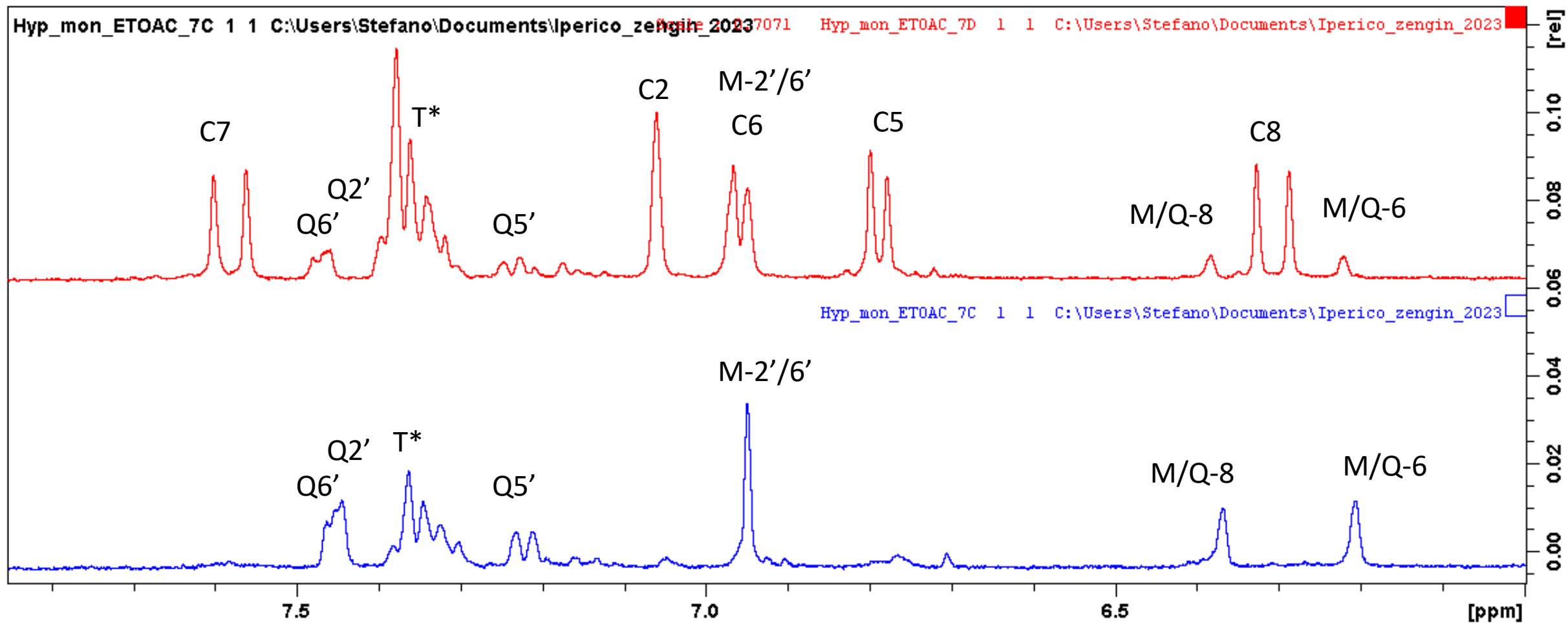


Figure S6: superimposition of the ethyl acetate fraction of *H. organifolium* enlargement of spectral region 4,5-8,0 ppm.

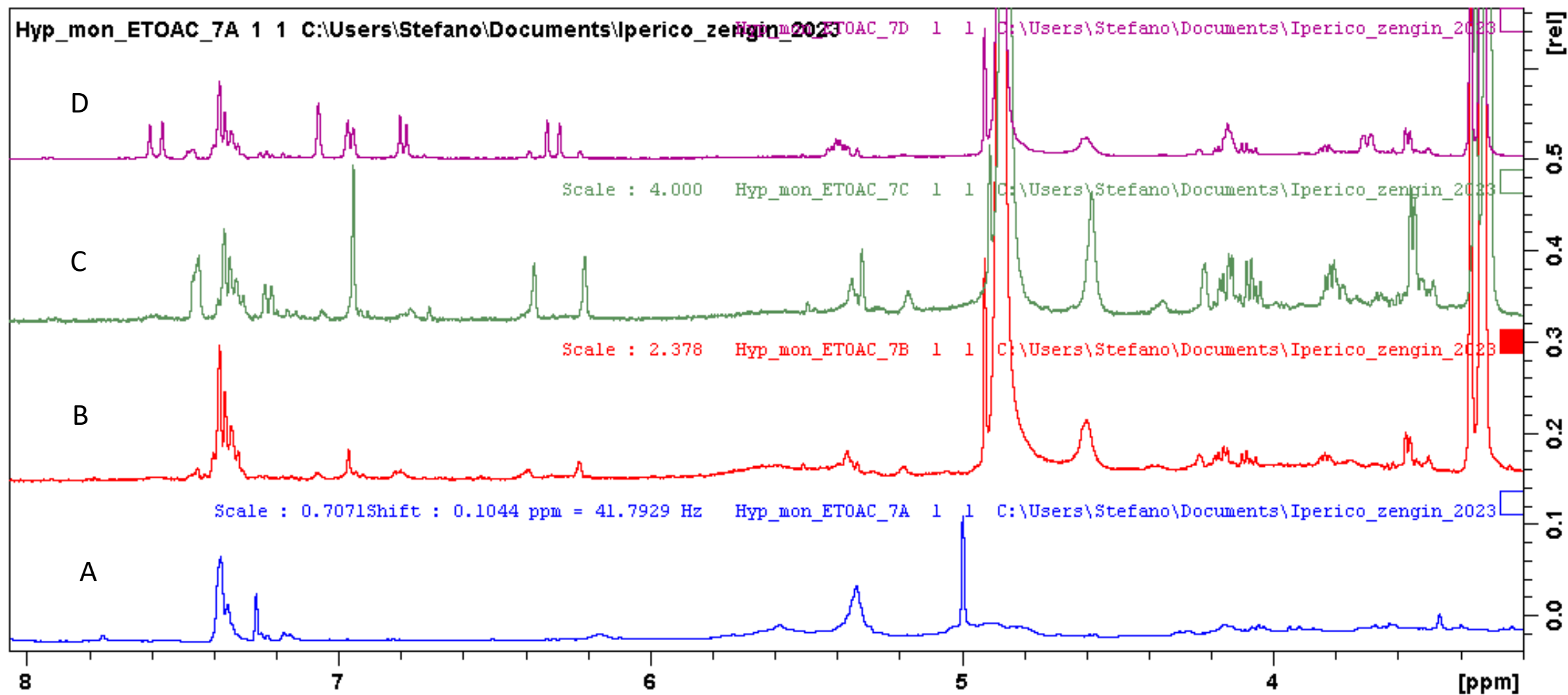


Figure S7: ethyl acetate fractions of *H. montbretii*.



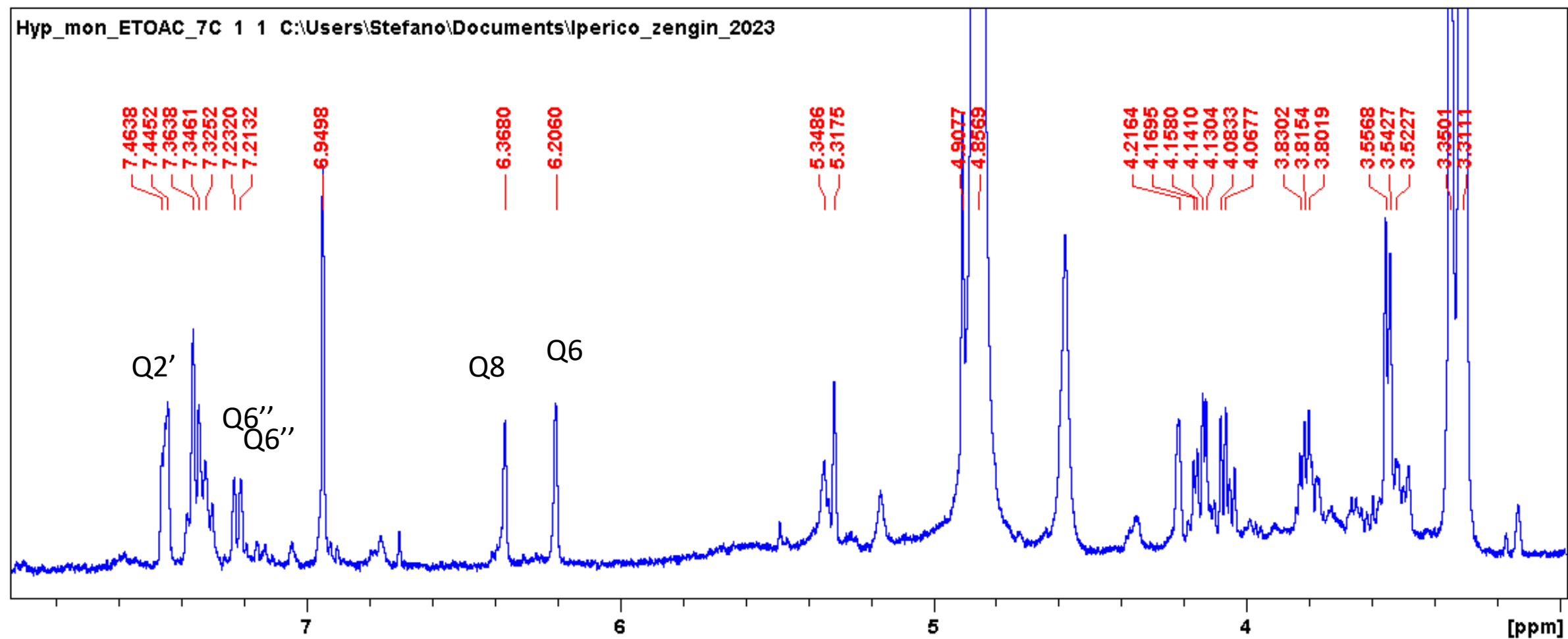


Figure S8: ethyl acetate fraction C of *H. montbretii*.

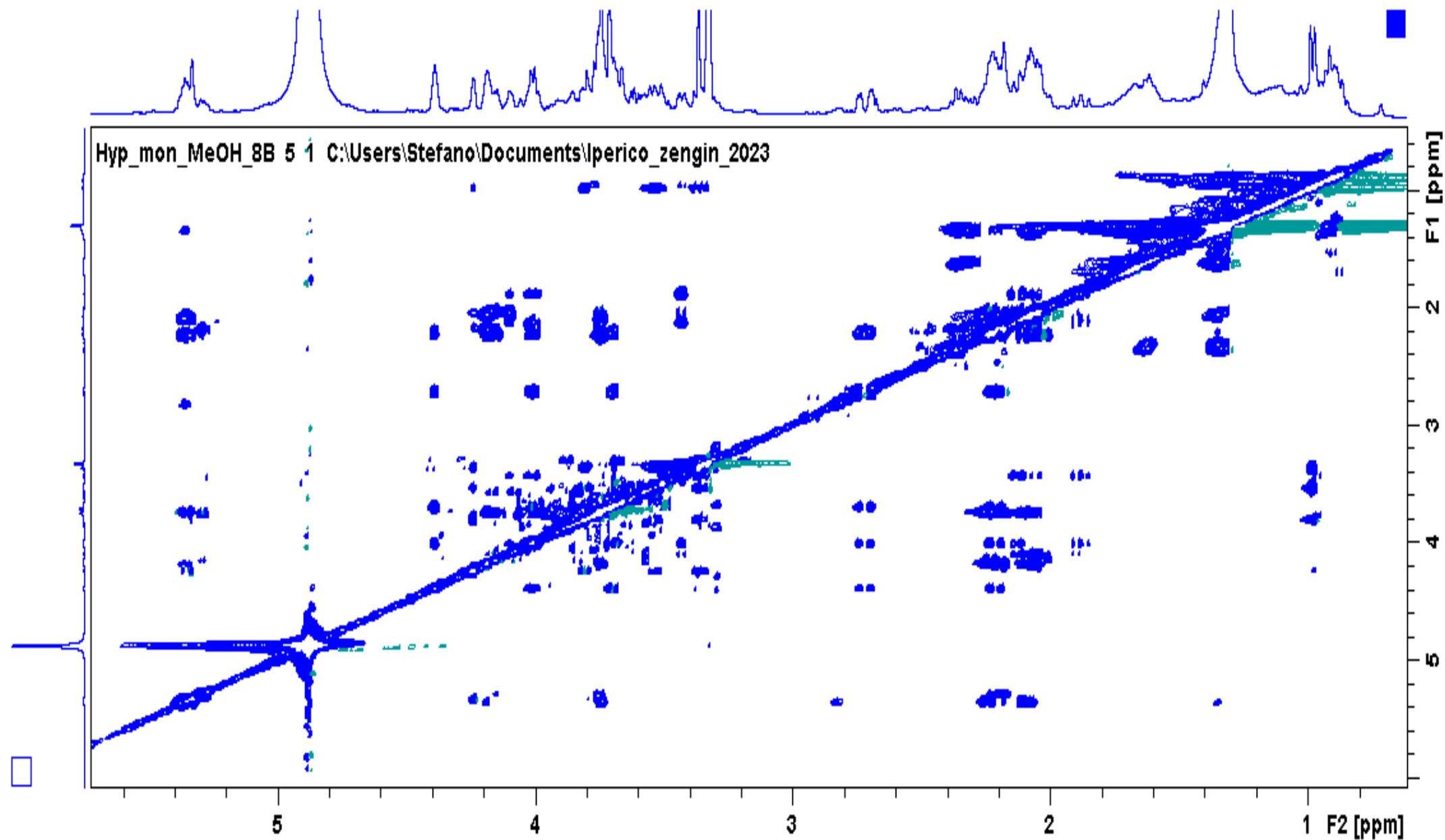


Figure S9: COSY spectrum of methanol fraction B of *H. montbretii*.

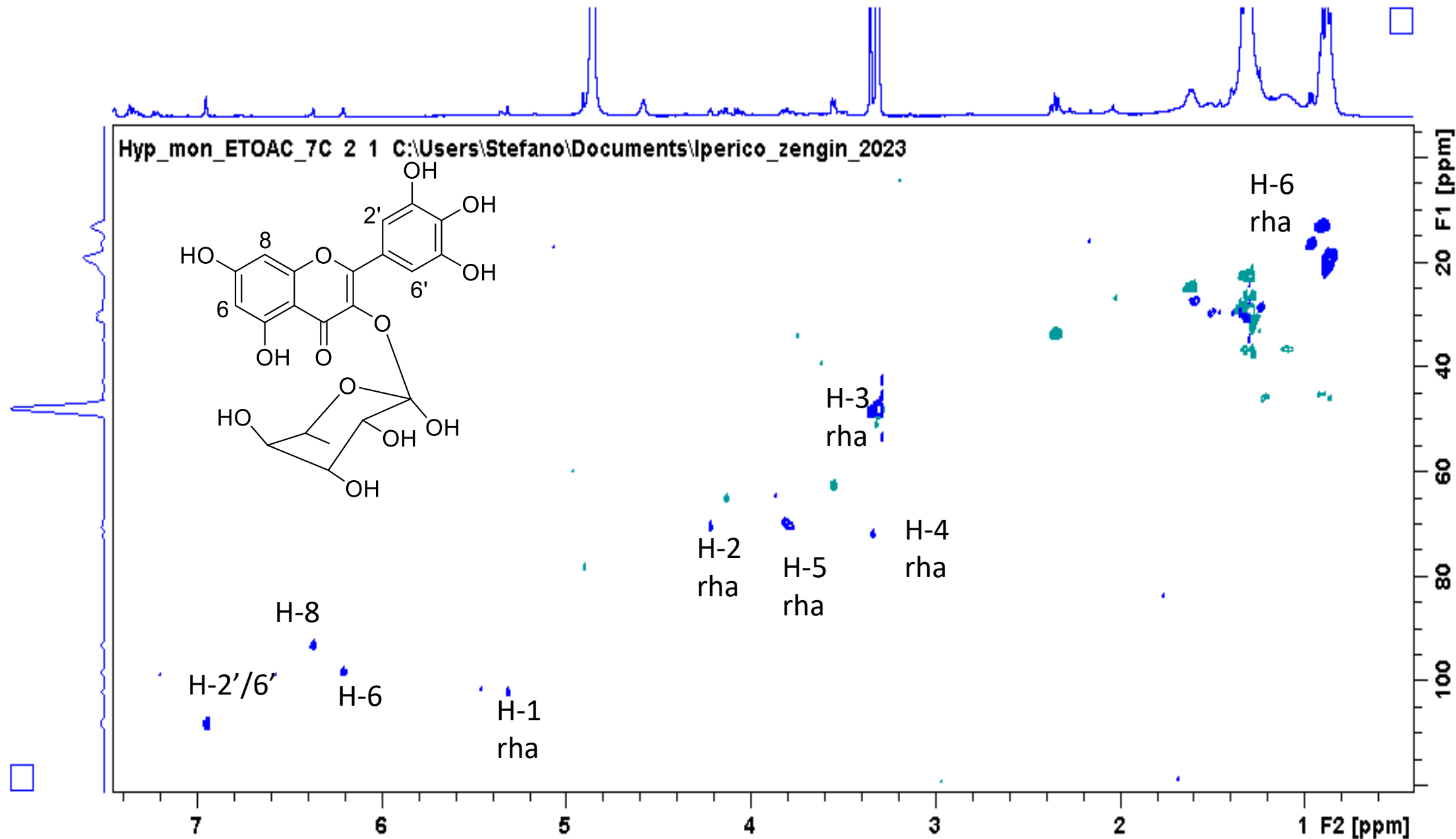


Figure S10: HSQC of fraction C of ethyl acetate extract of *H. montbretii* assignments of myricetin-3-O-rhamnoside.

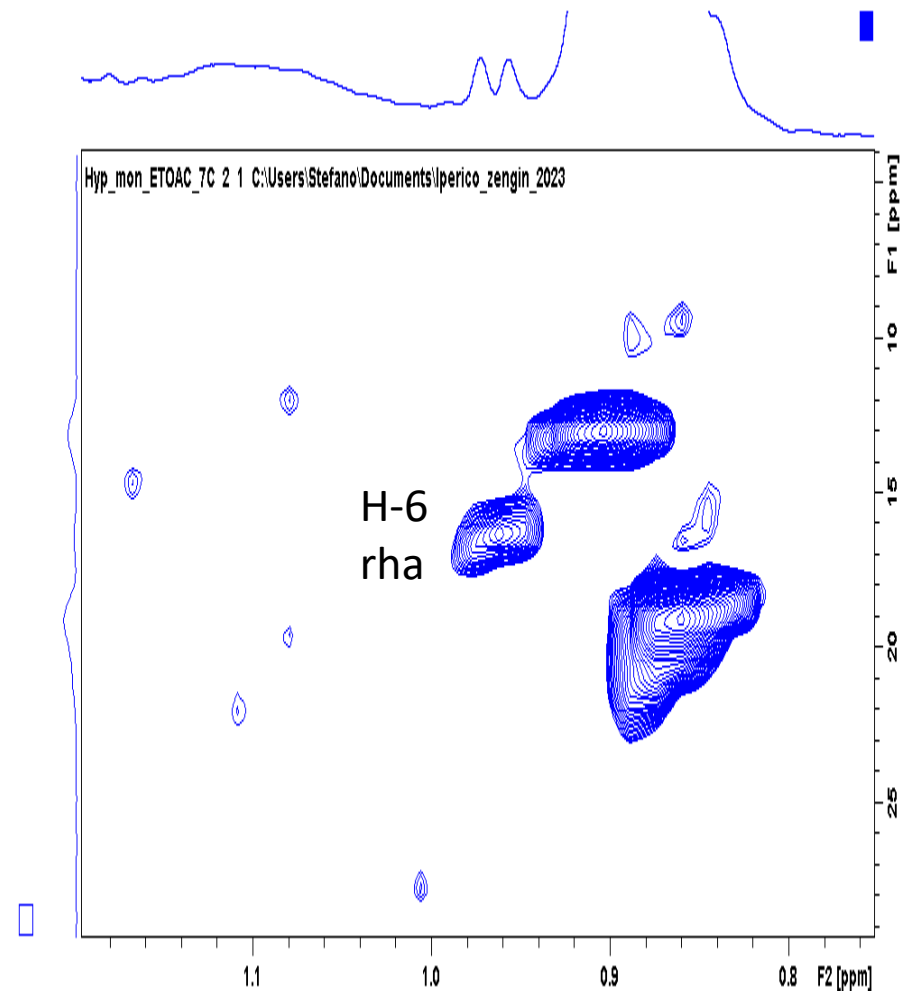
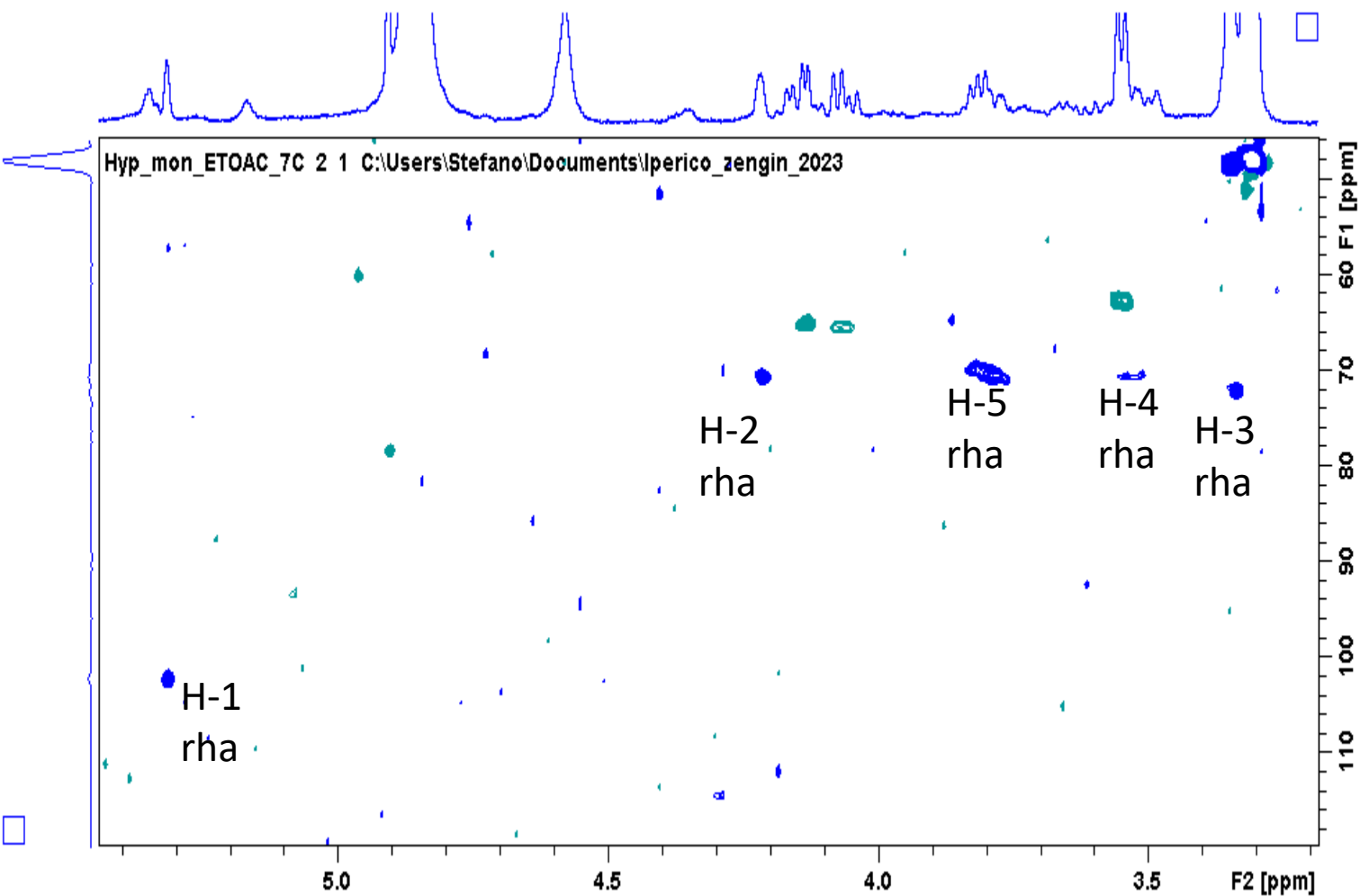


Figure S11: HSQC of fraction C of ethyl acetate extract of *H. montbretii* assignments Detail of NMR assignments of rhamnopyranosil unit of myricetin.

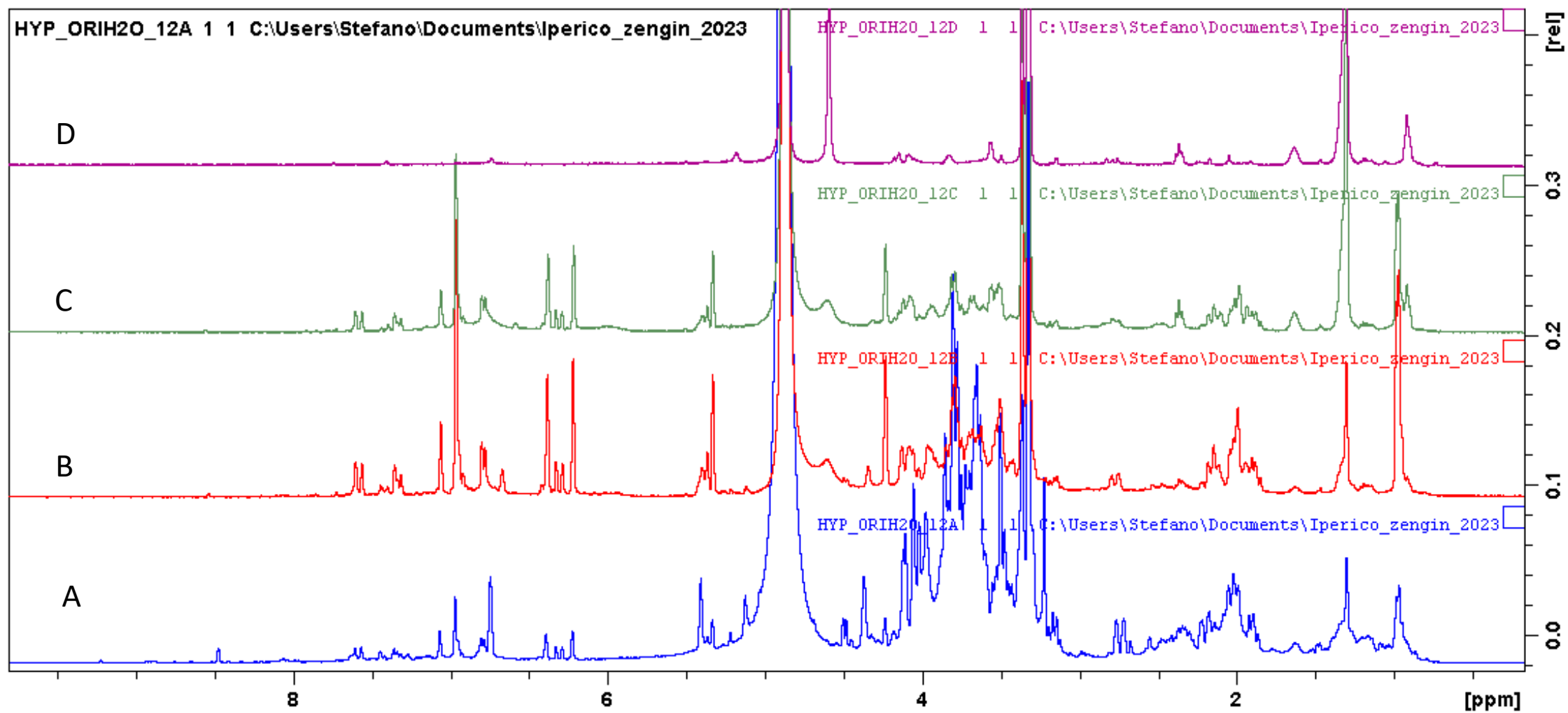


Figure S12: water extract fractions of *H. origanifolium*.

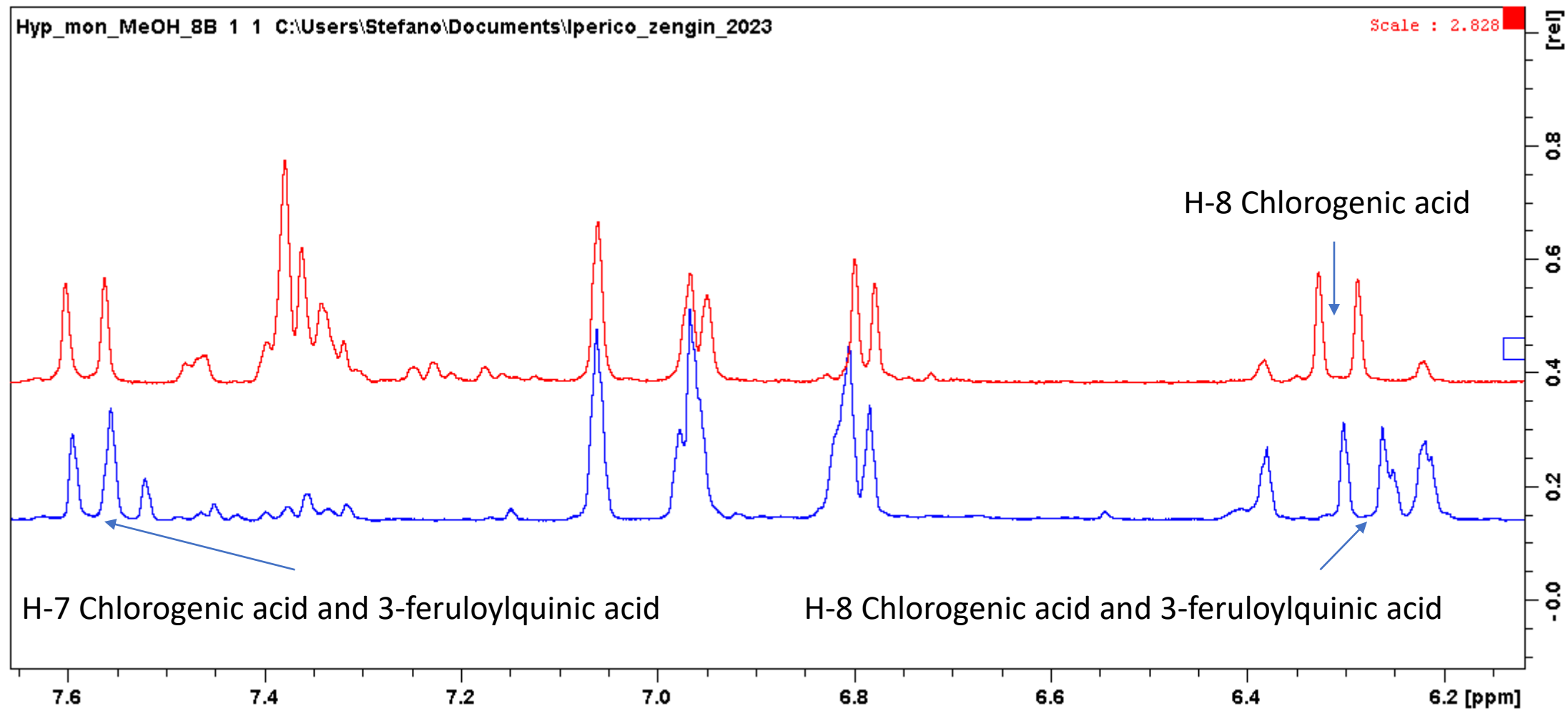


Figure S13: Detail of <sup>1</sup>H-NMR related to methanol fraction B of *H. montbretii* indicated different hydroxycinnamic acid derivatives.

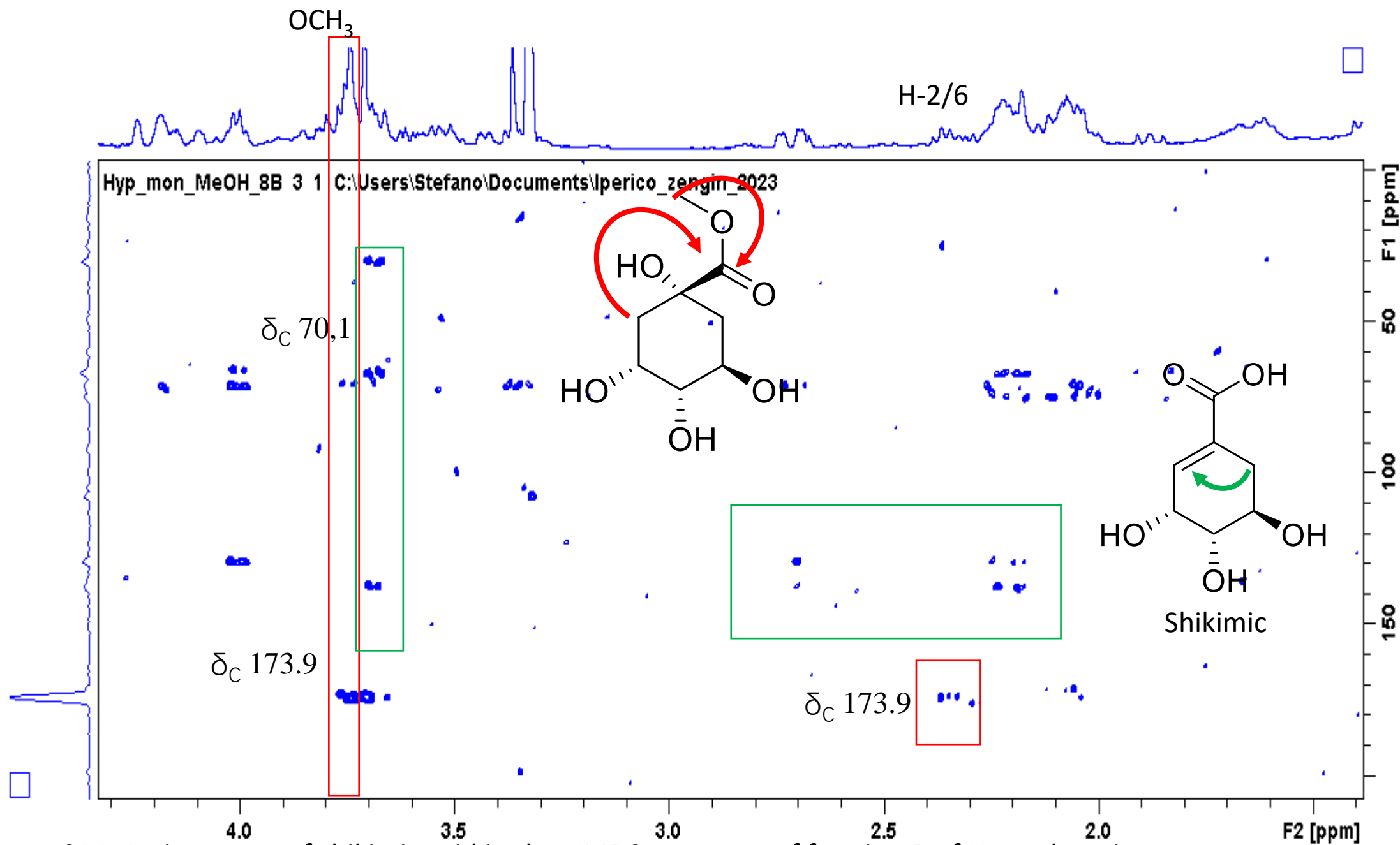


Figure S14: Assignments of shikimic acid in the HMBC spectrum of fraction B of H monbretti.

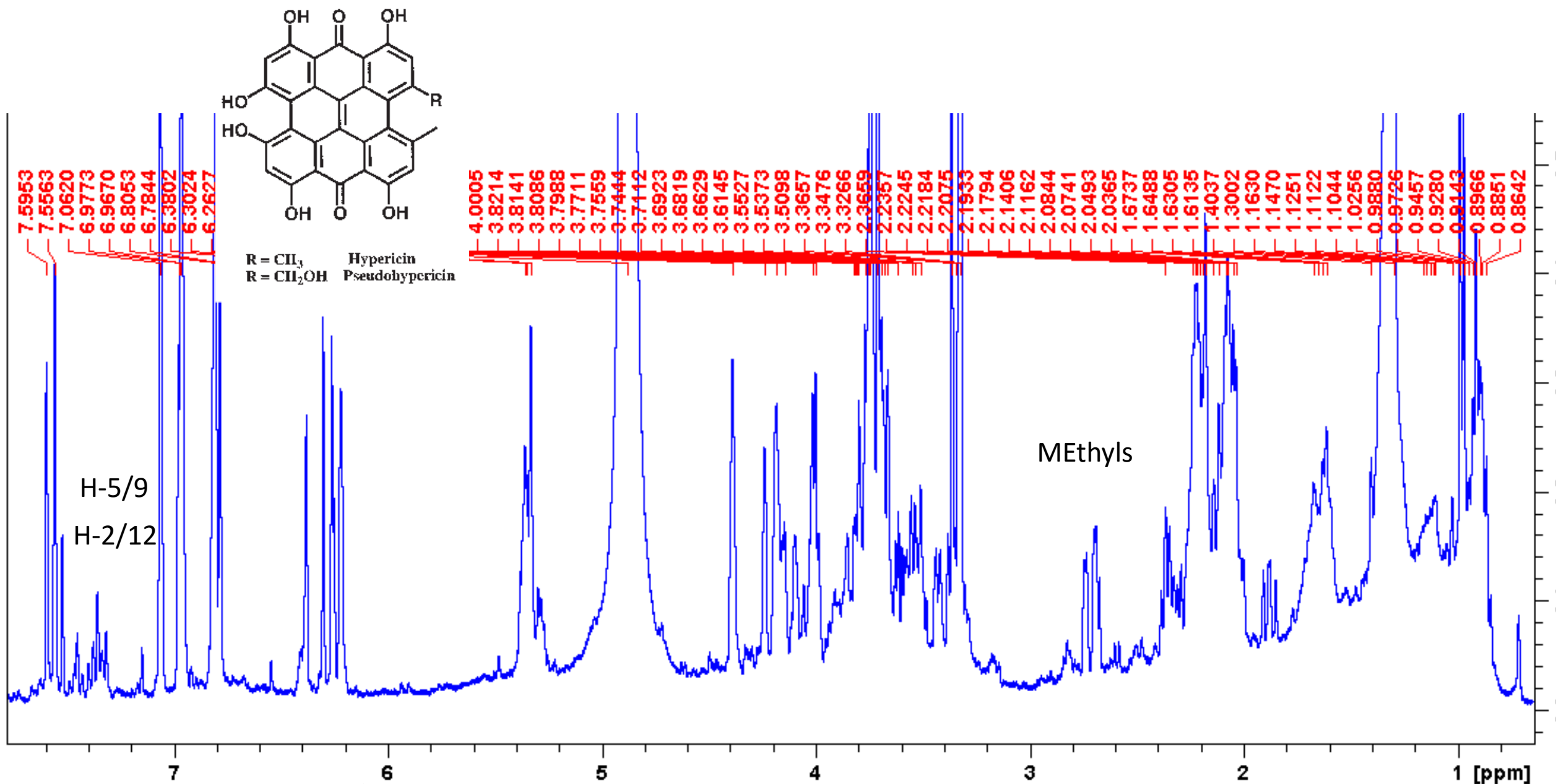


Figure S15: Assignments of proton signals ascribable to anthraquinone derivatives.



# Antraquinone derivatives diagnostic aromatic signals

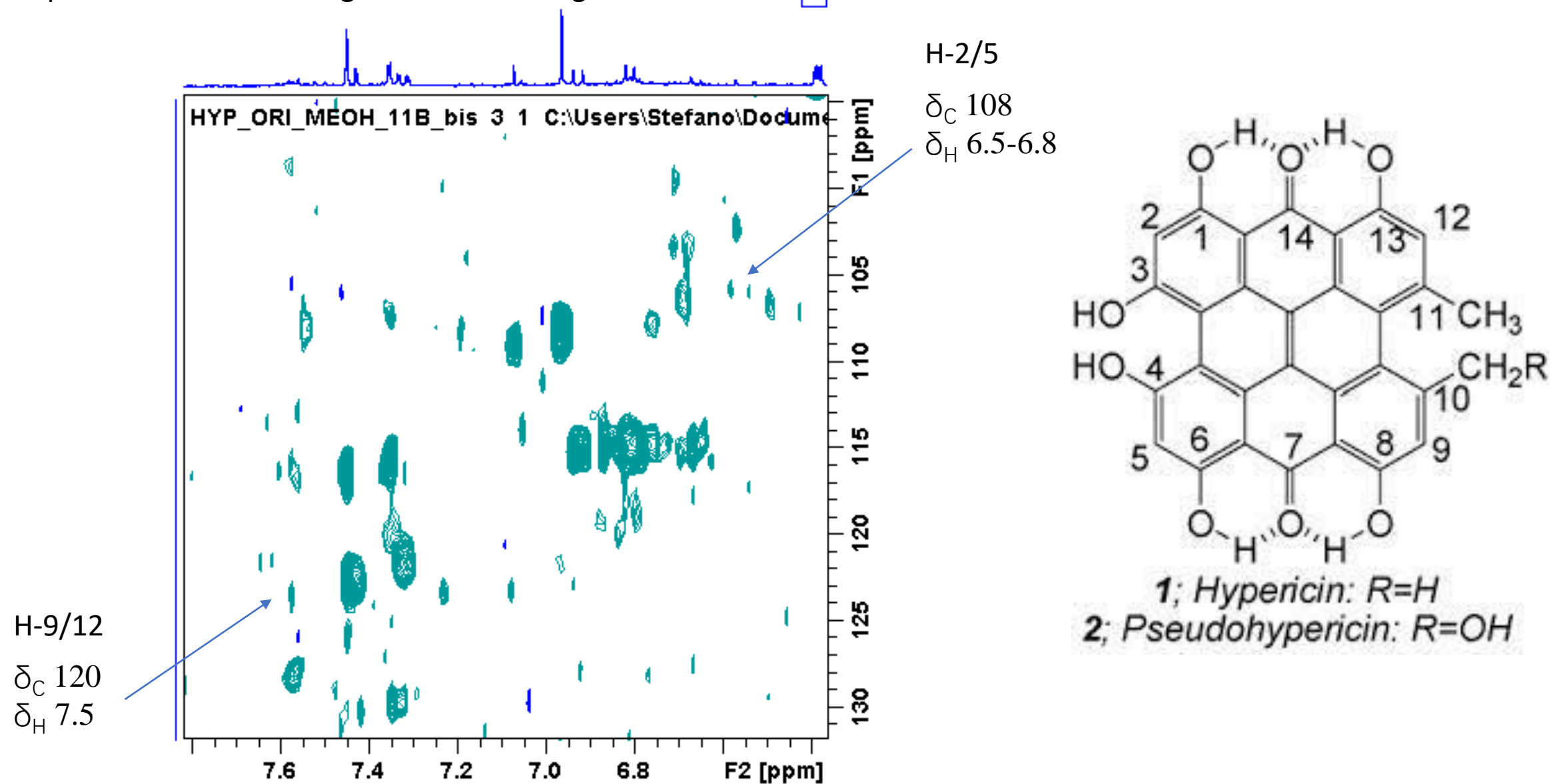


Figure S16: HSQC of H origanifolium fraction B with indicated the antracene assignments.