

Supporting information for

Design, Synthesis and In Vitro Biological Activity of Novel C-7 Methylene Congeners of Furanoalcolchicinoids

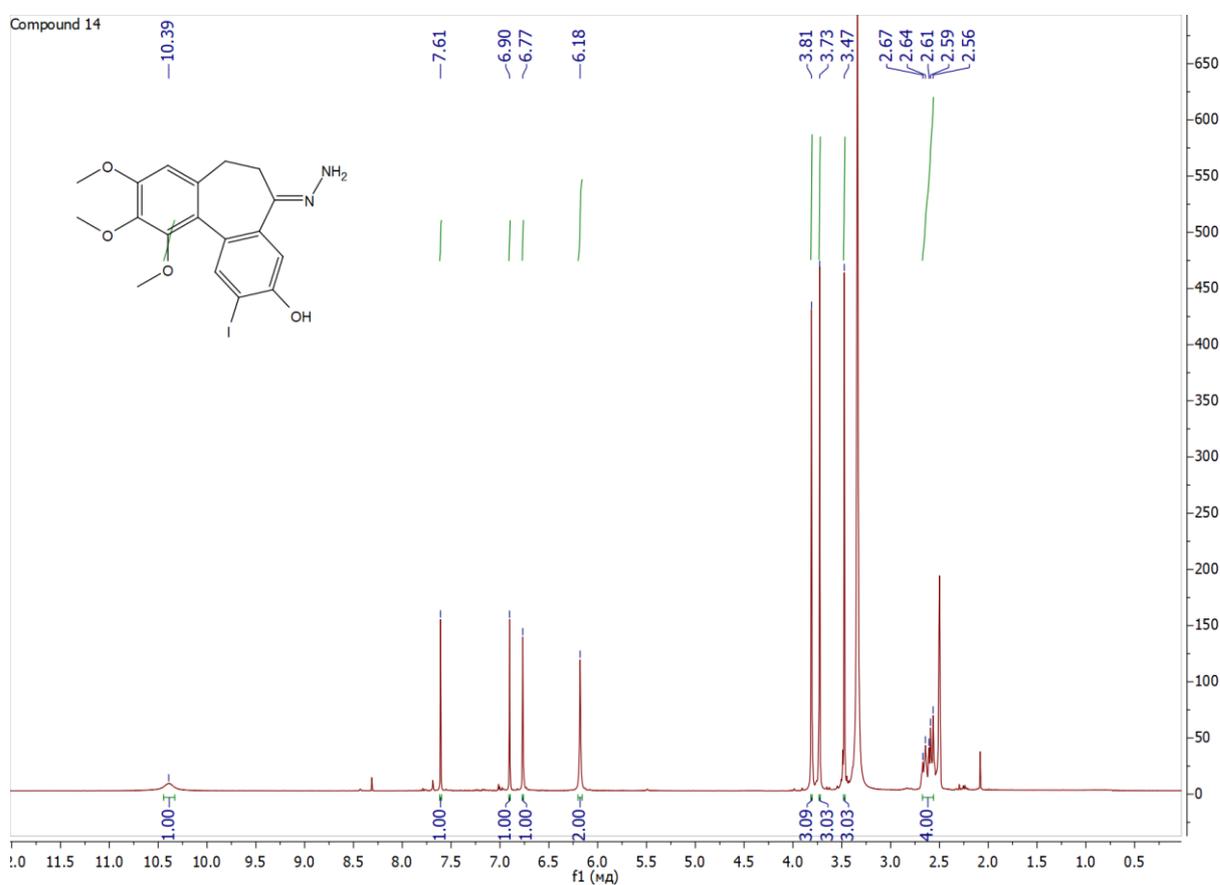
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Alsu R. Sitdikova ¹ and Alexey Yu. Fedorov ^{1,*}

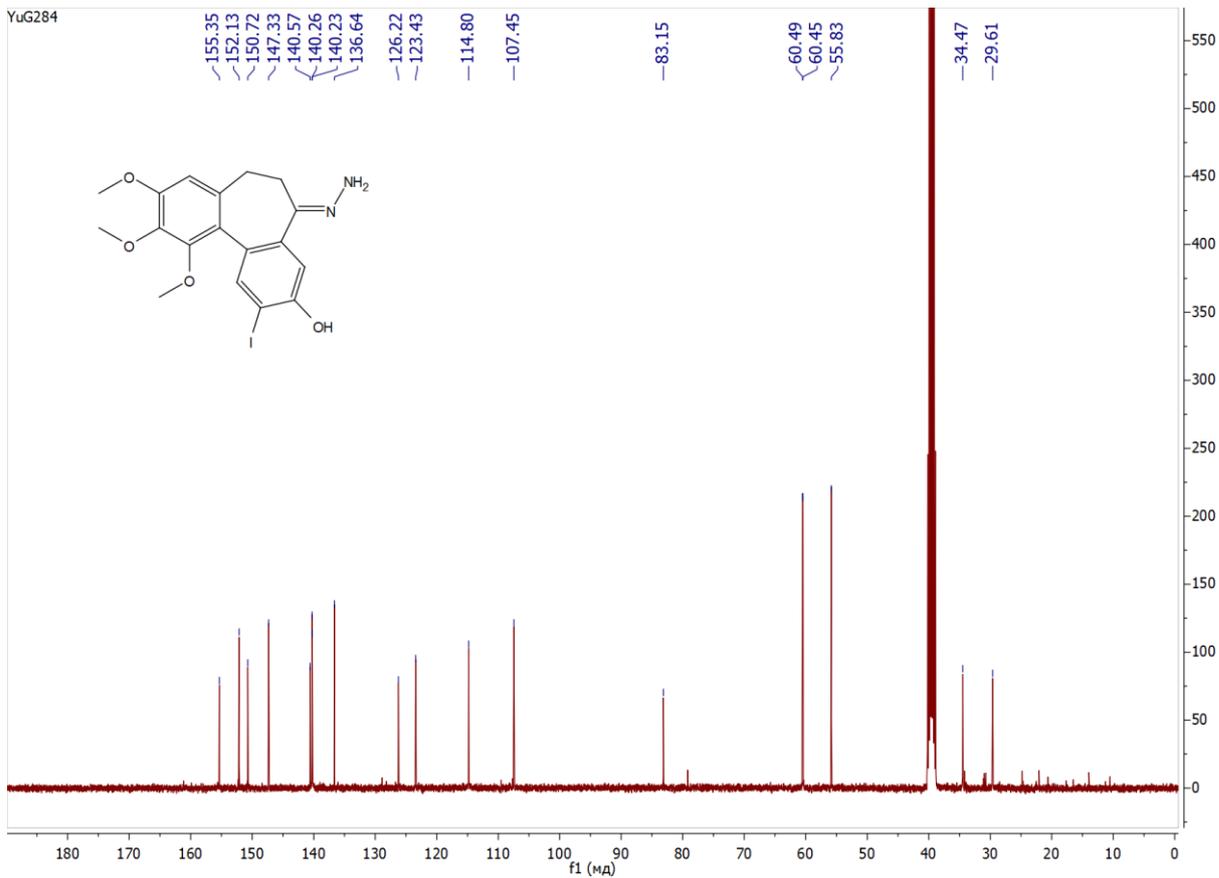
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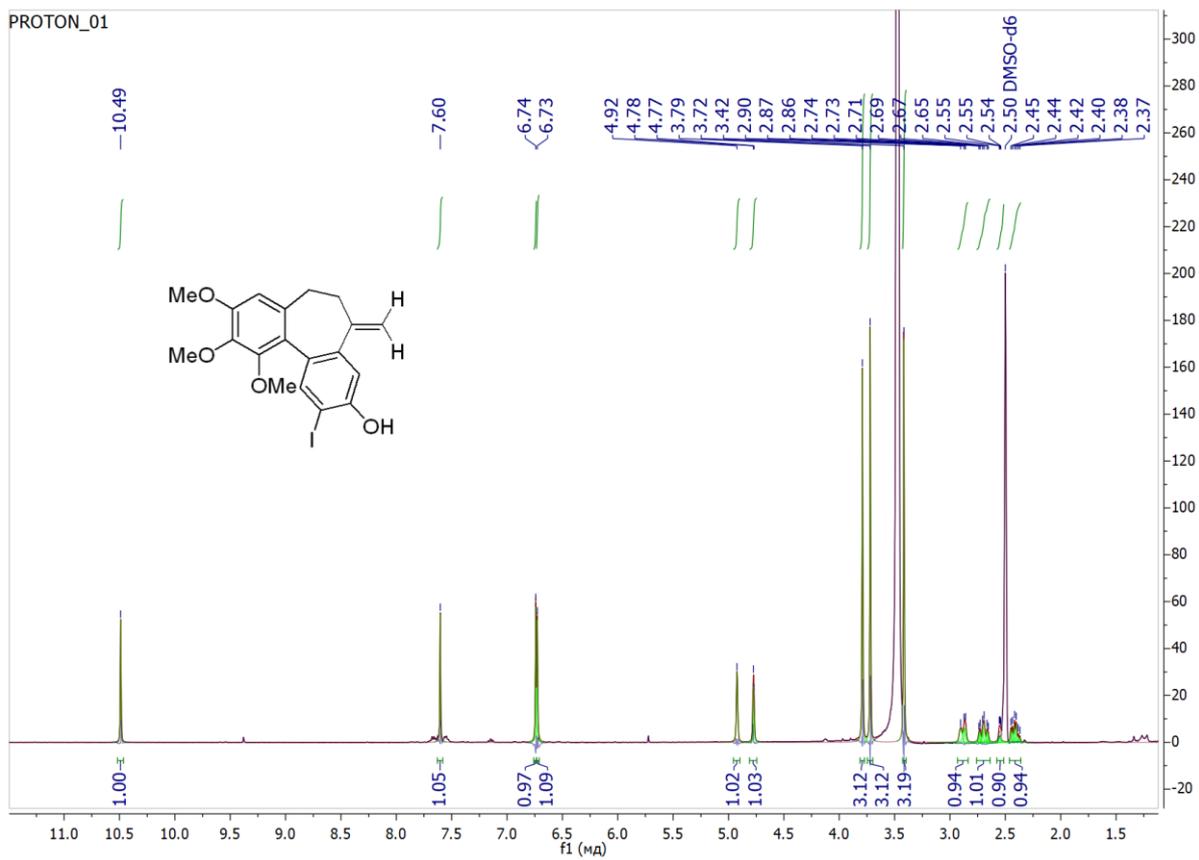
¹H and ¹³C NMR spectra of compounds 14, 15a-c, 8a-c, 9Z, 9E

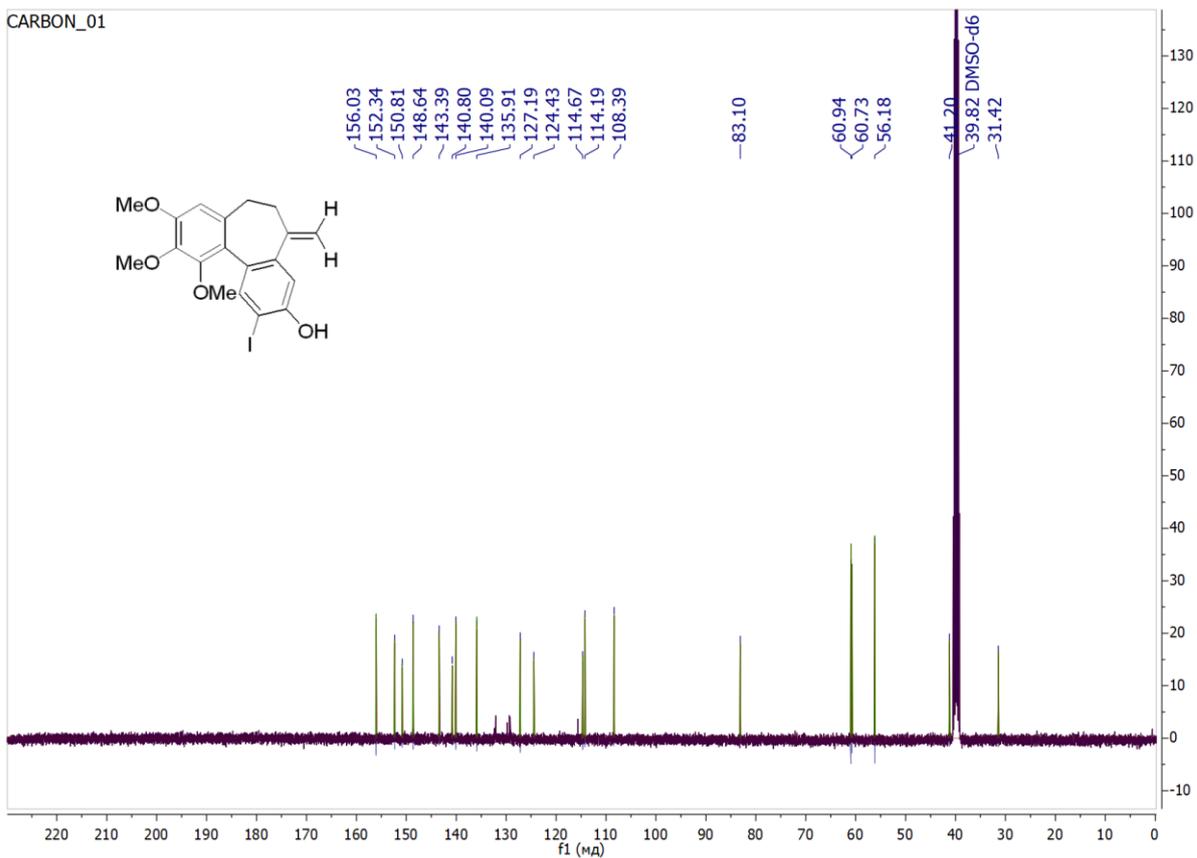
Compound 14



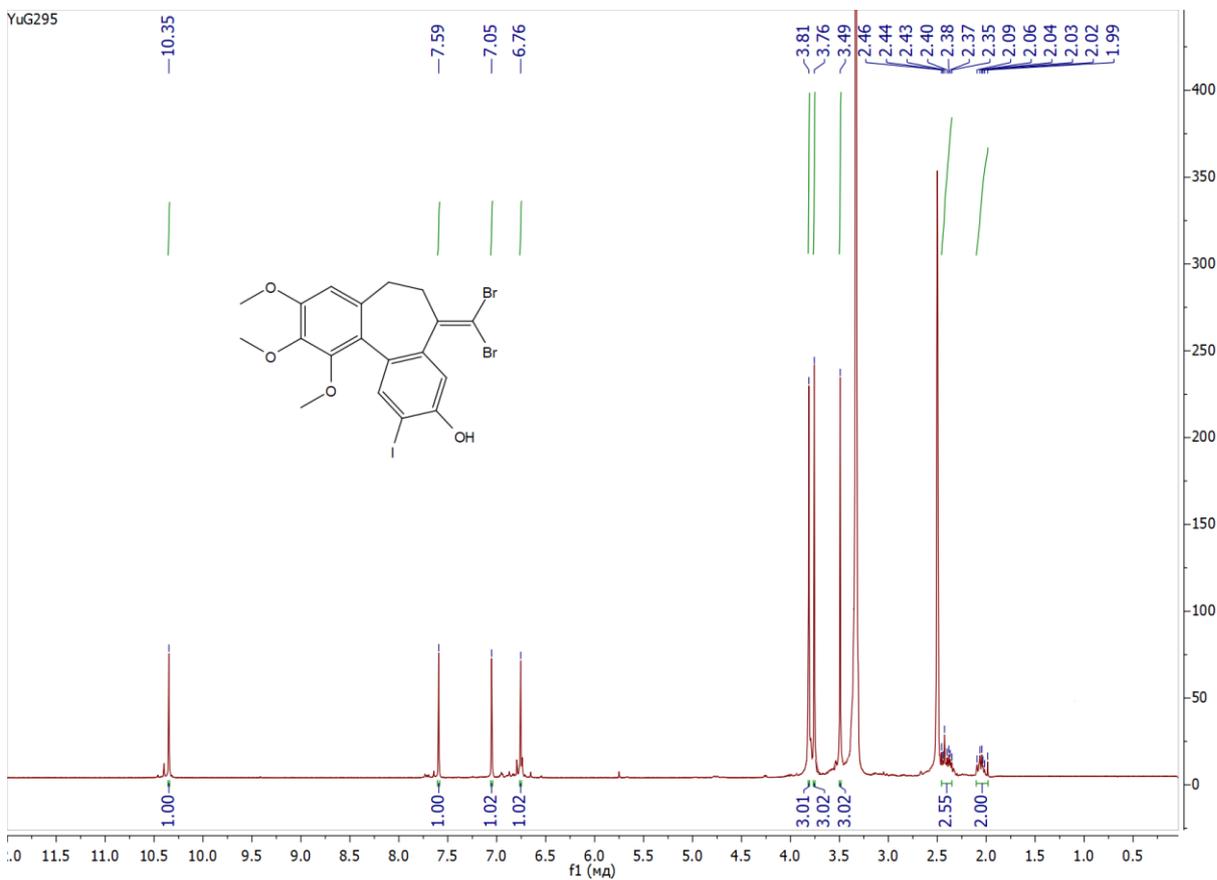


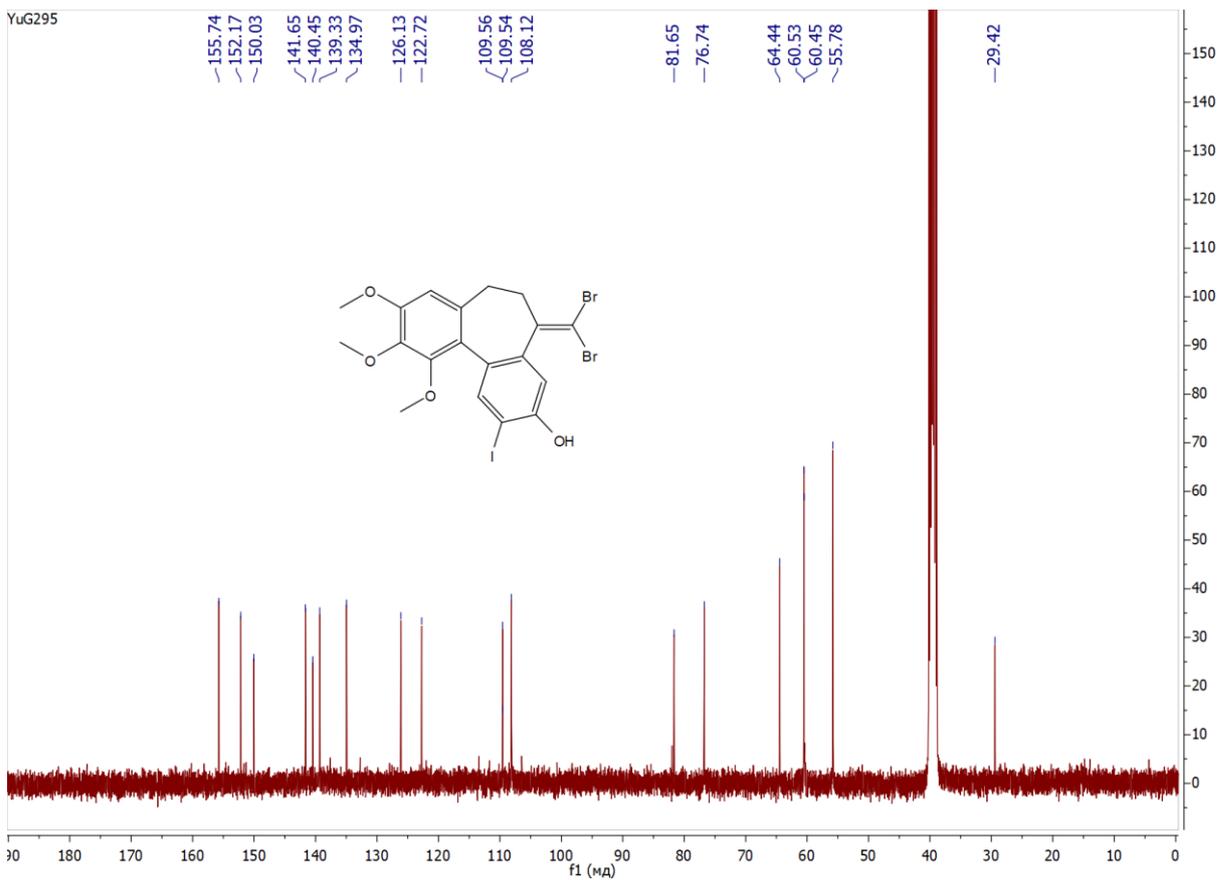
Compound 15a



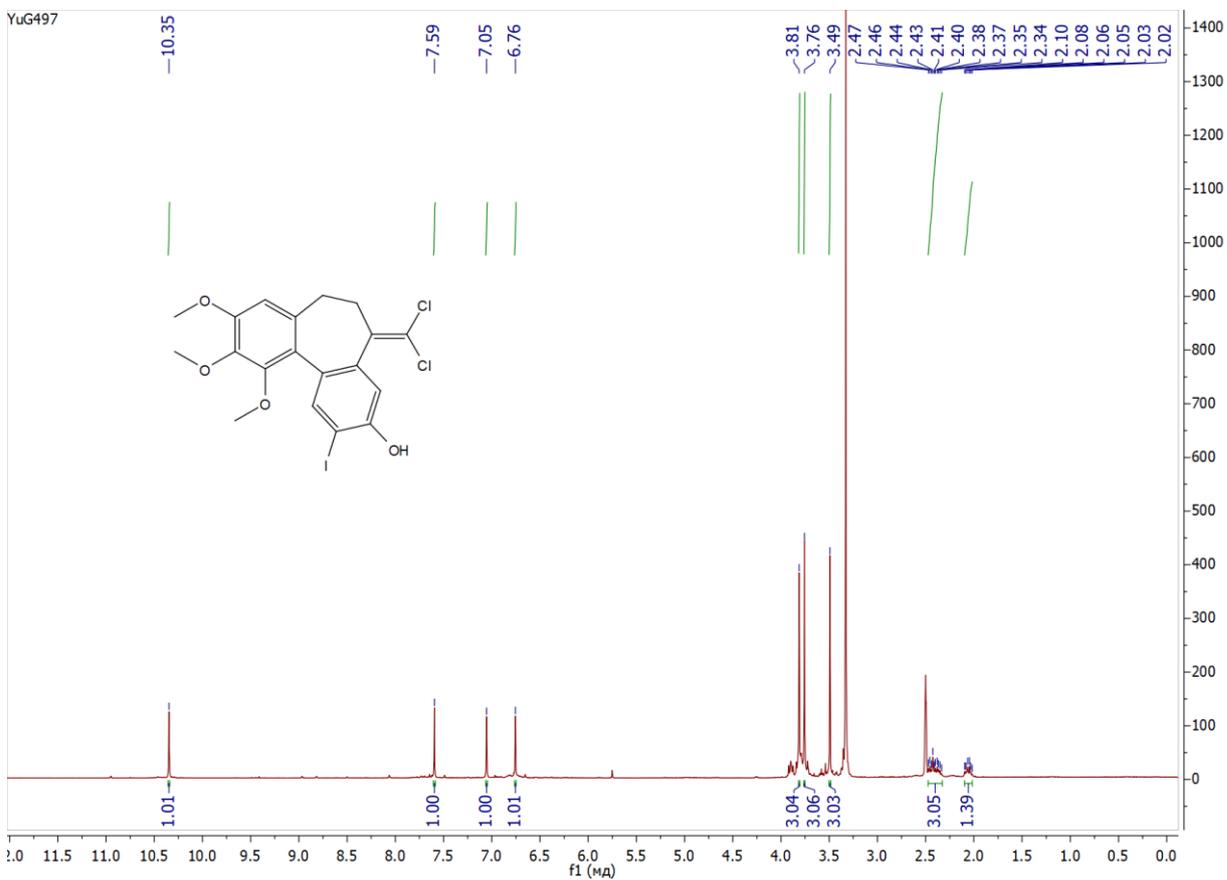


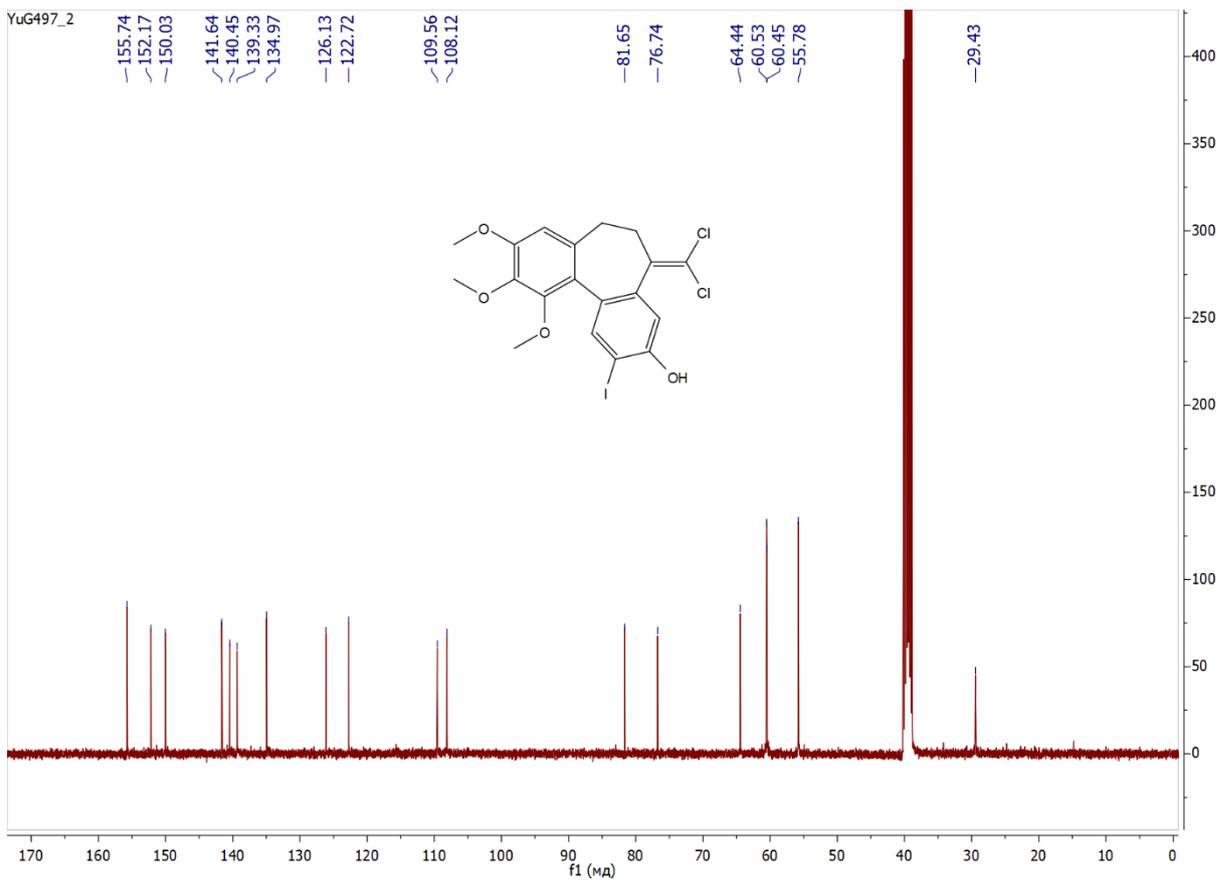
Compound 15b



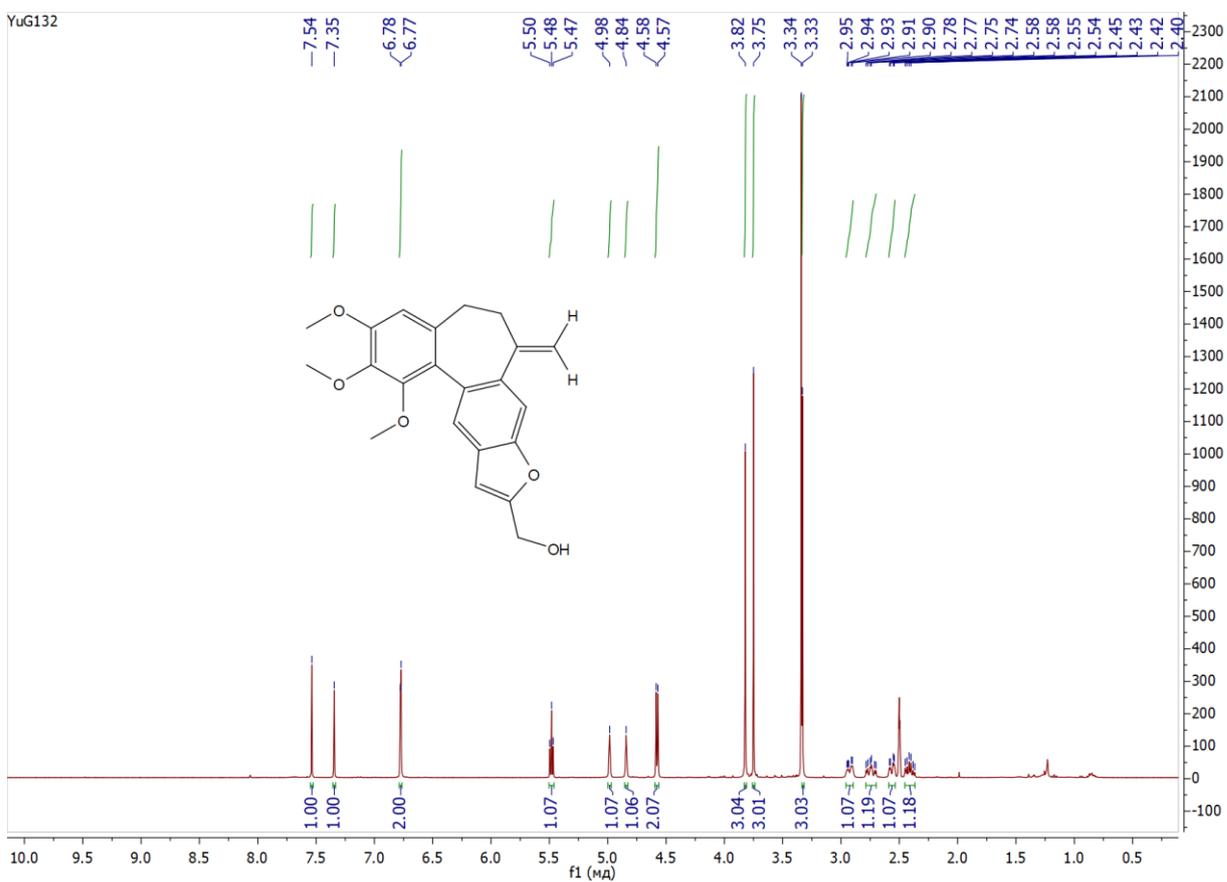


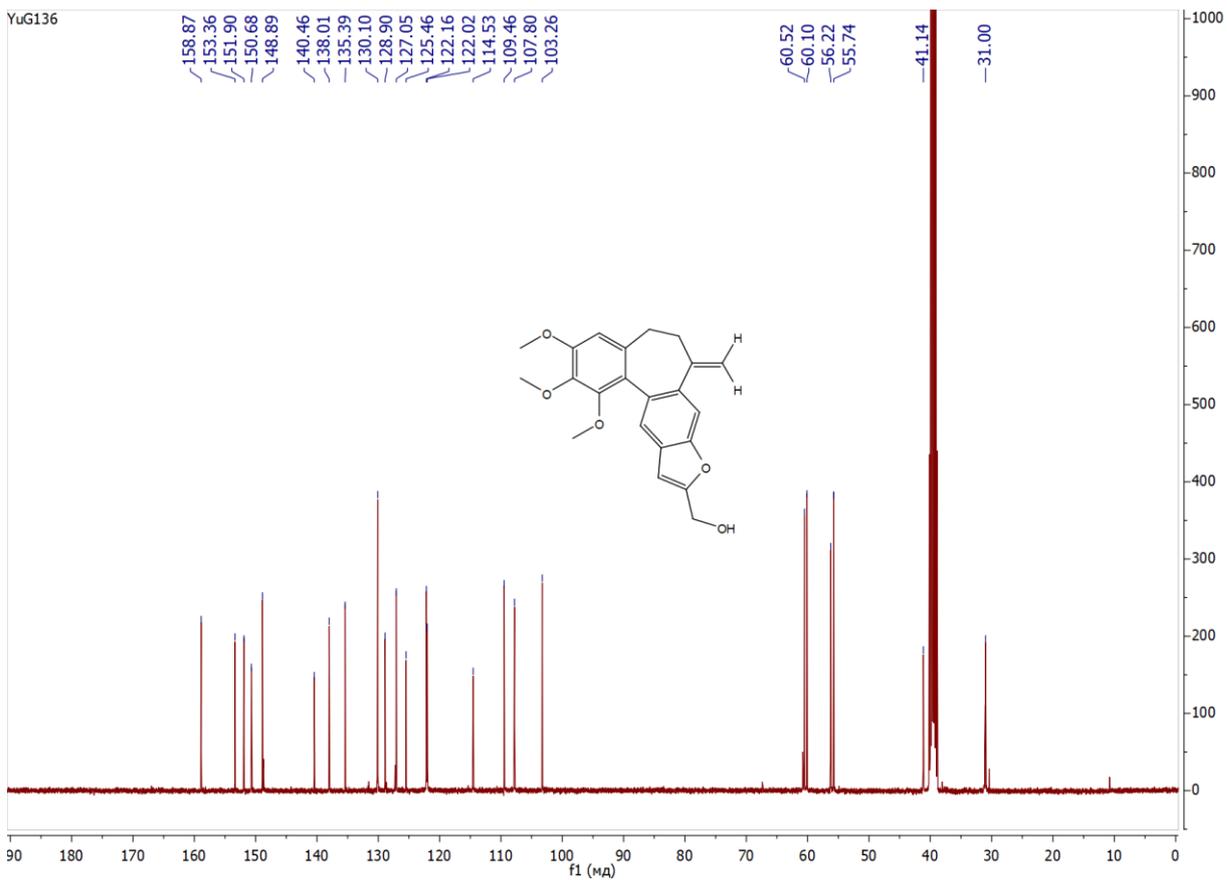
Compound 15c



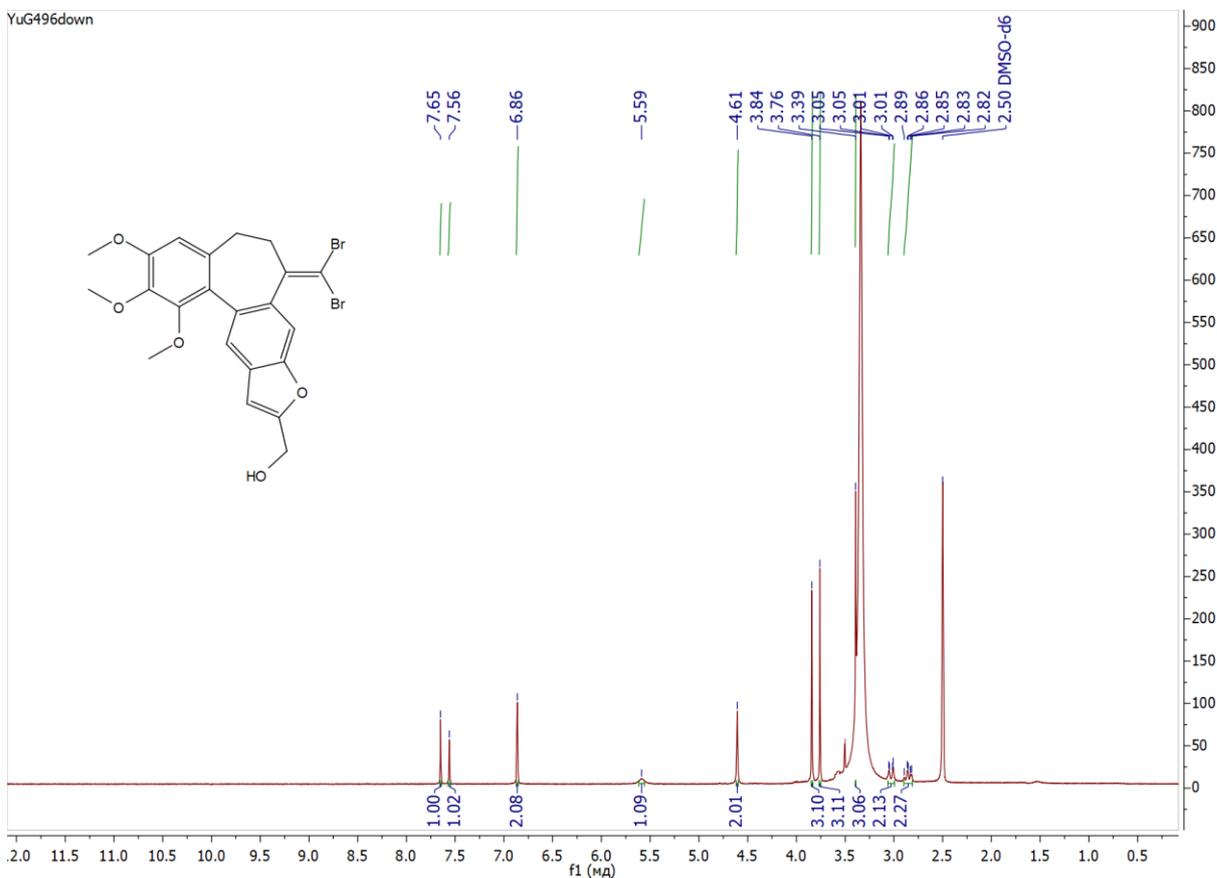


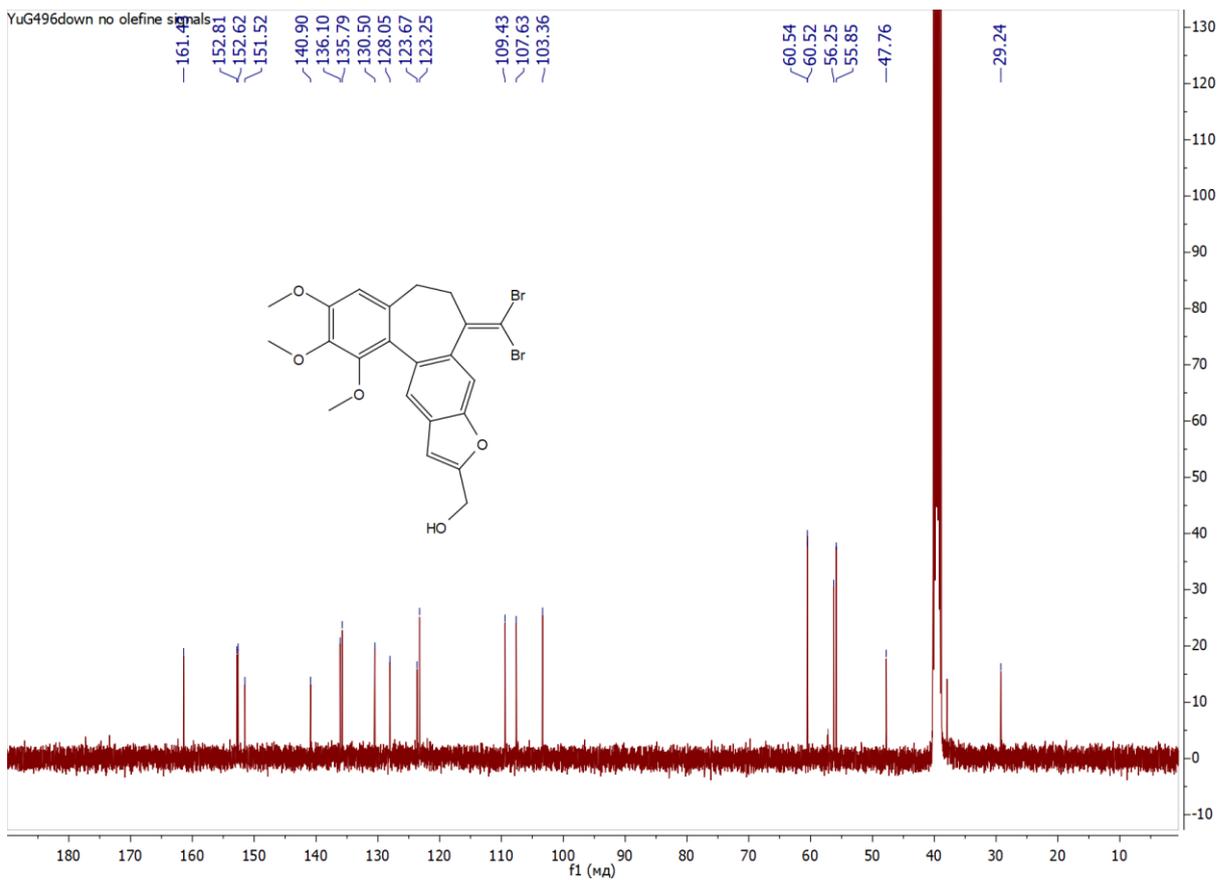
Compound 8a



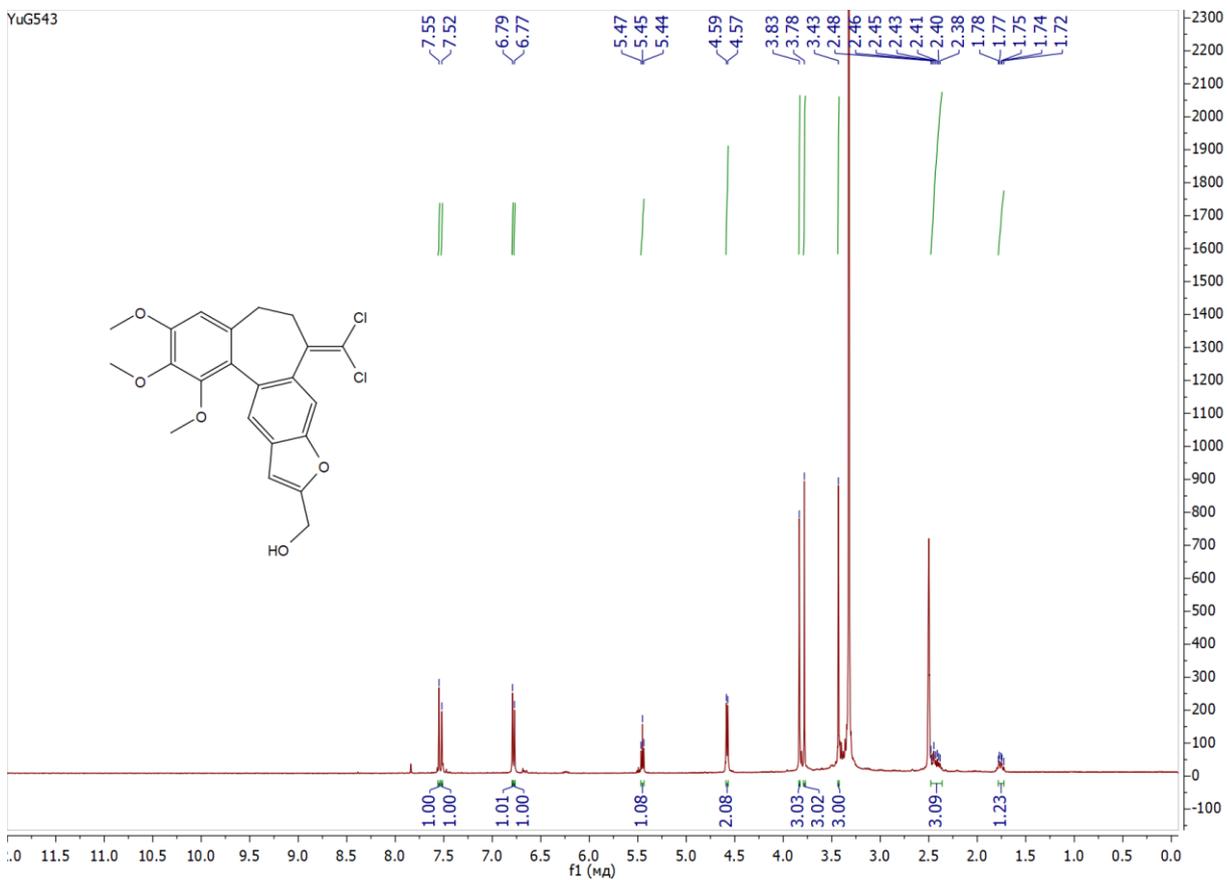


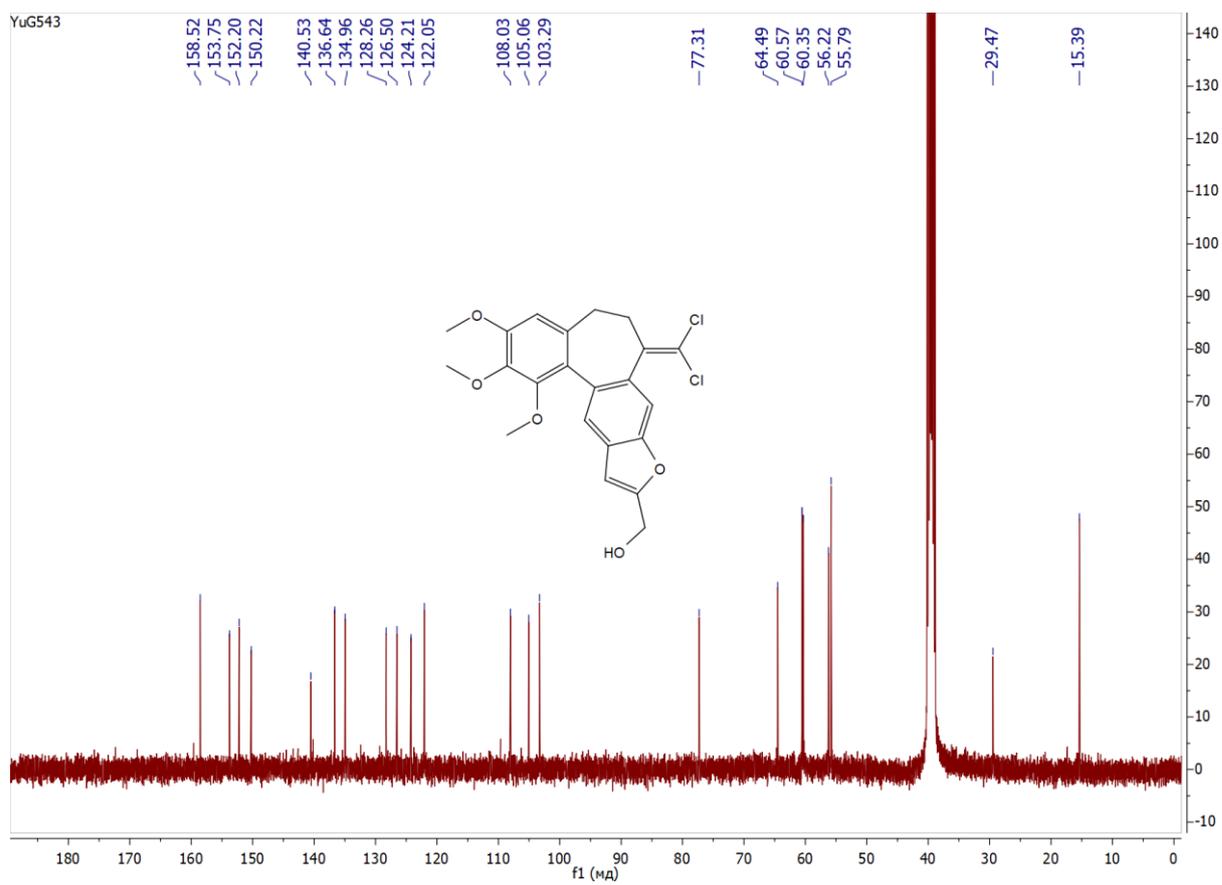
Compound 8b





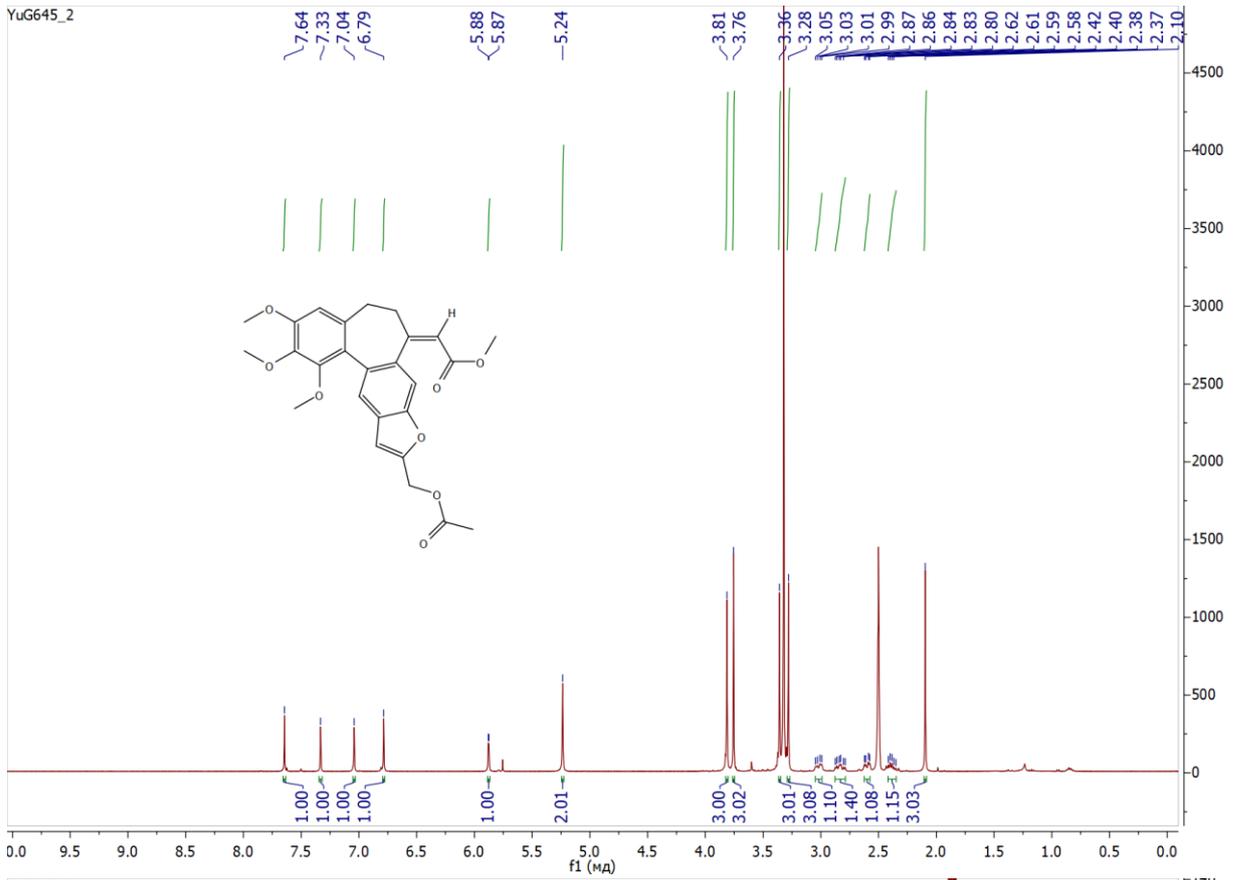
Compound 8c



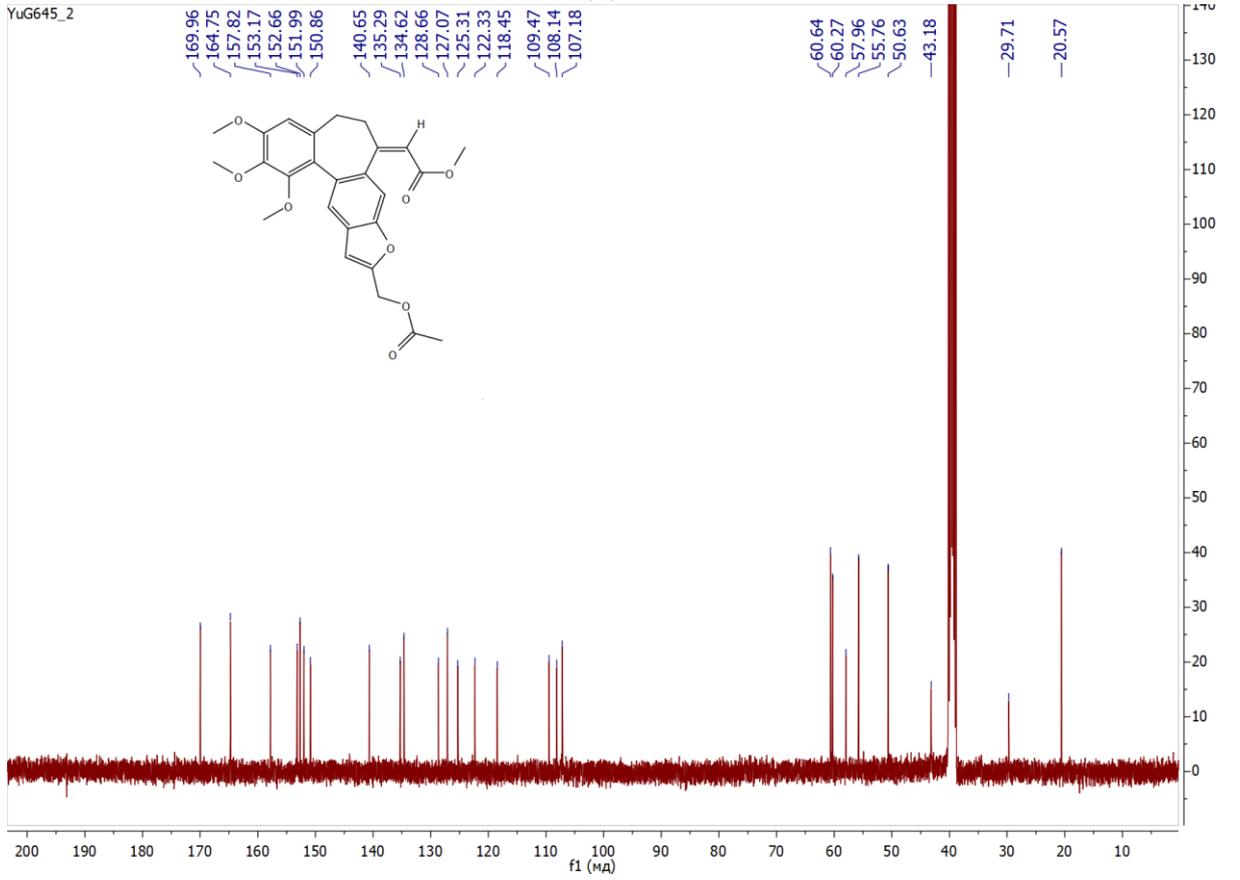


Compound 9Z

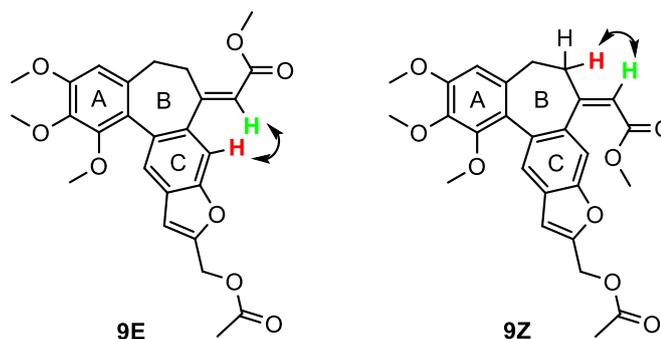
YuG645_2



YuG645_2



Explanation of the assignment of *Z*- and *E*-configuration for compounds **9Z** and **9E**



The assignment of *E*-/*Z*-configuration of the mentioned isomers (compounds **9E** and **9Z**) were made according to 2D NOESY spectra. The NOESY spectrum of **9E**-isomer showed the through space interaction of olefinic proton (marked in green) with aromatic proton of C-ring (marked in red). In contrast for **9Z**-isomer it was found the interaction of olefinic proton (marked in green) with one of the protons of methylene group of B-ring (marked in red).

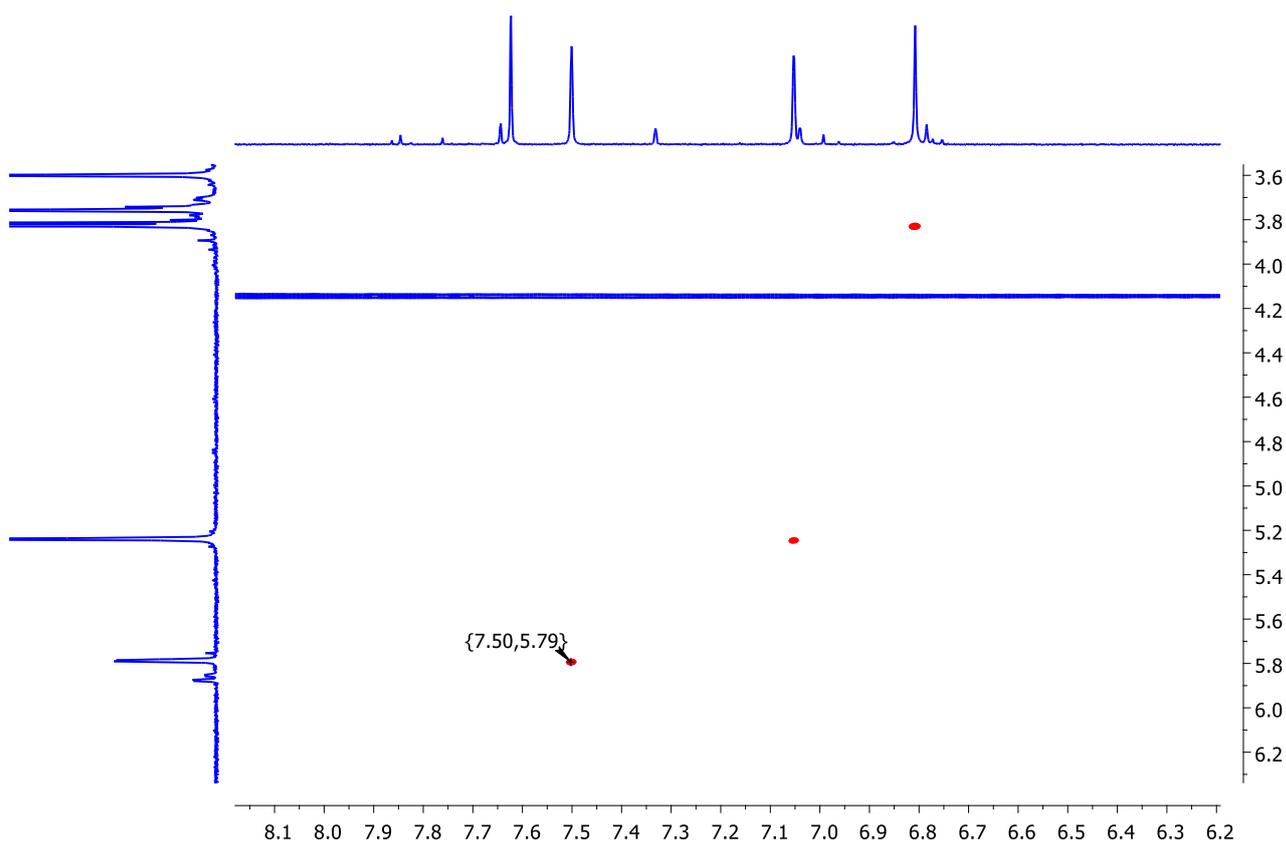


Figure S1. 2D NOESY spectrum of compound **9E**.

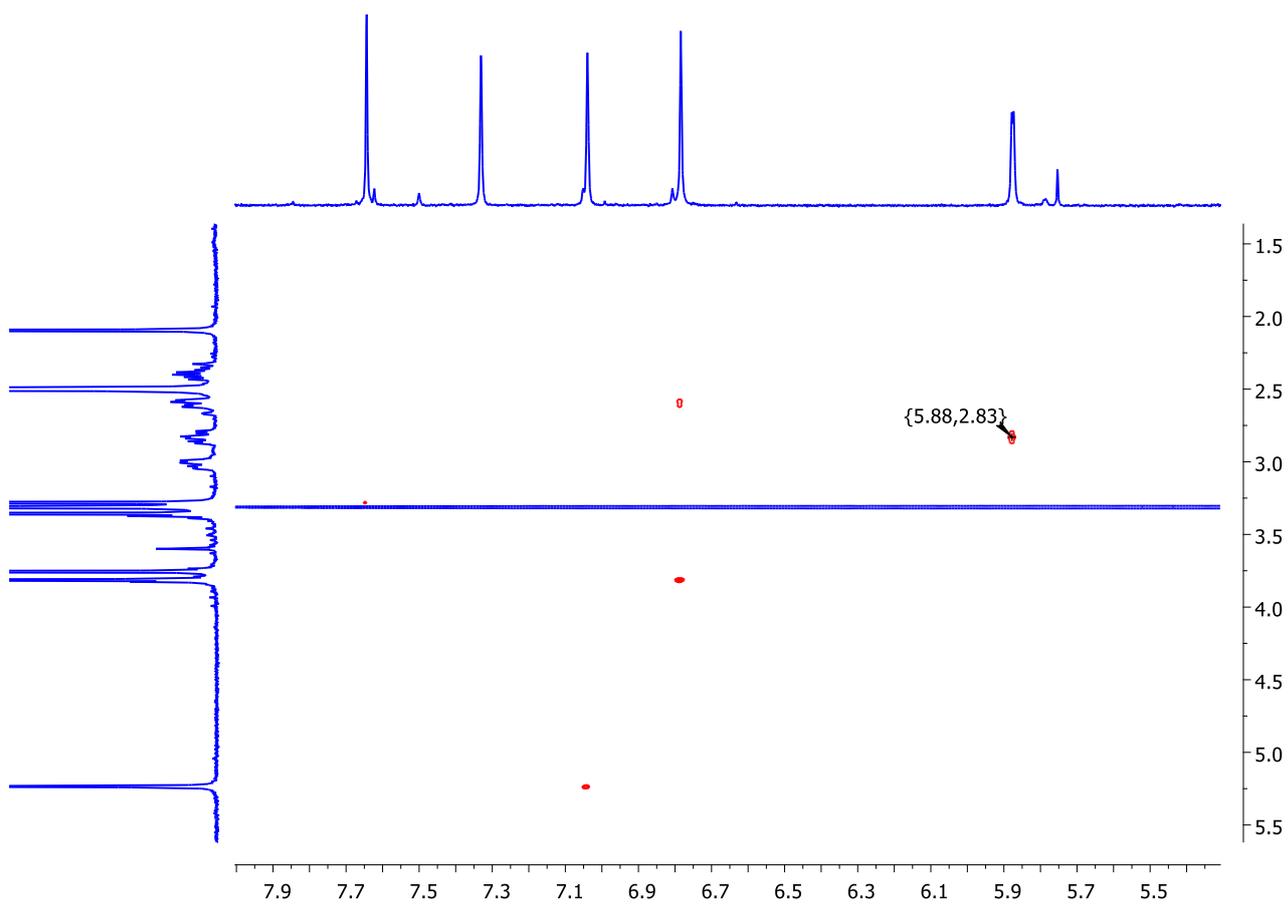


Figure S2. 2D NOESY spectrum of compound **9Z**.