**Supplementary Information**

**Bauerenol acetate, the pentacyclic triterpenoid from *Tabernaemontana longipes* is an antitrypanosomal agent.**

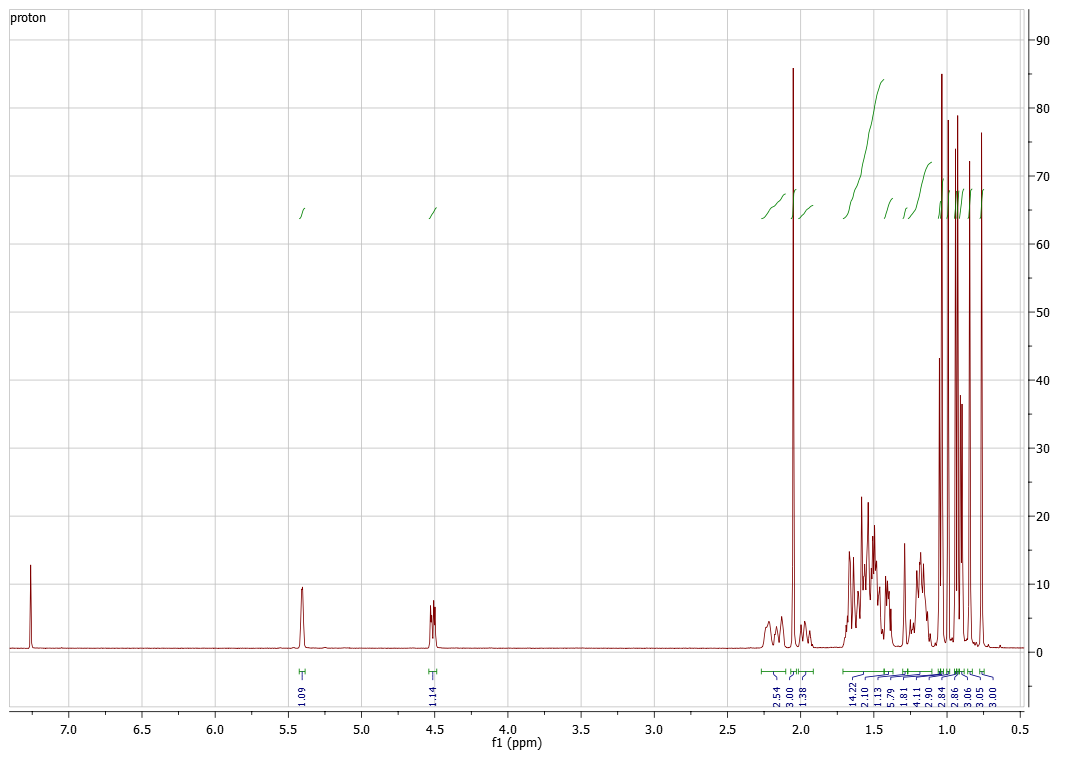
Simira Carothers1, Rogers Nyamwihura1, Jasmine Collins1, Huaisheng Zhang1, HaJeung Park2, William N. Setzer3, and Ifedayo Victor Ogungbe1\*

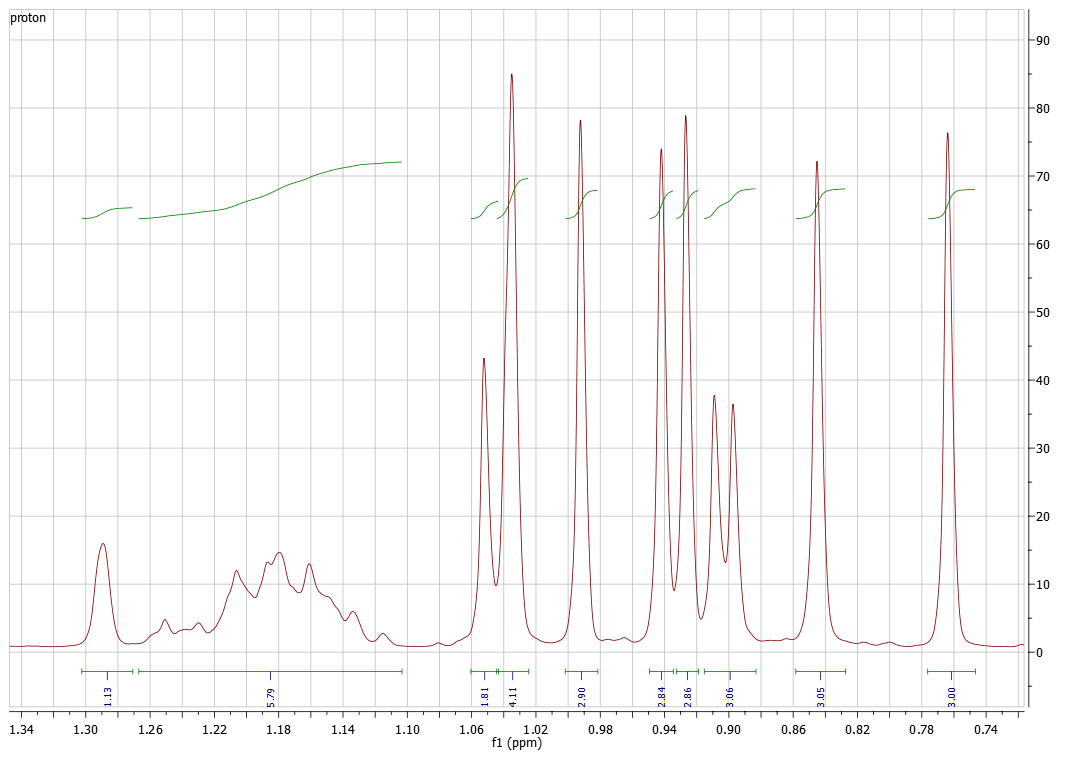
1Department of Chemistry, Jackson State University, Jackson, MS, 39217, USA

2X-ray Crystallography Laboratory, Scripps Research Institute-FL, Jupiter, FL, 33458, USA

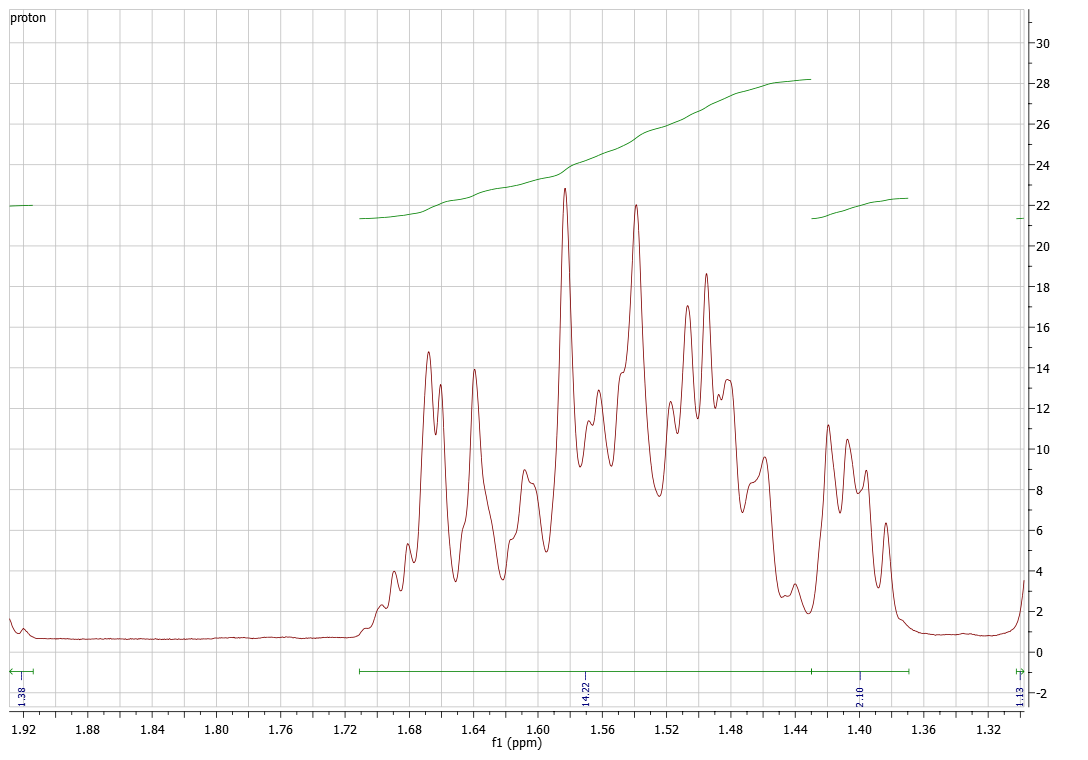
3Department of Chemistry, University of Alabama in Huntsville, Huntsville, AL, 35899, USA

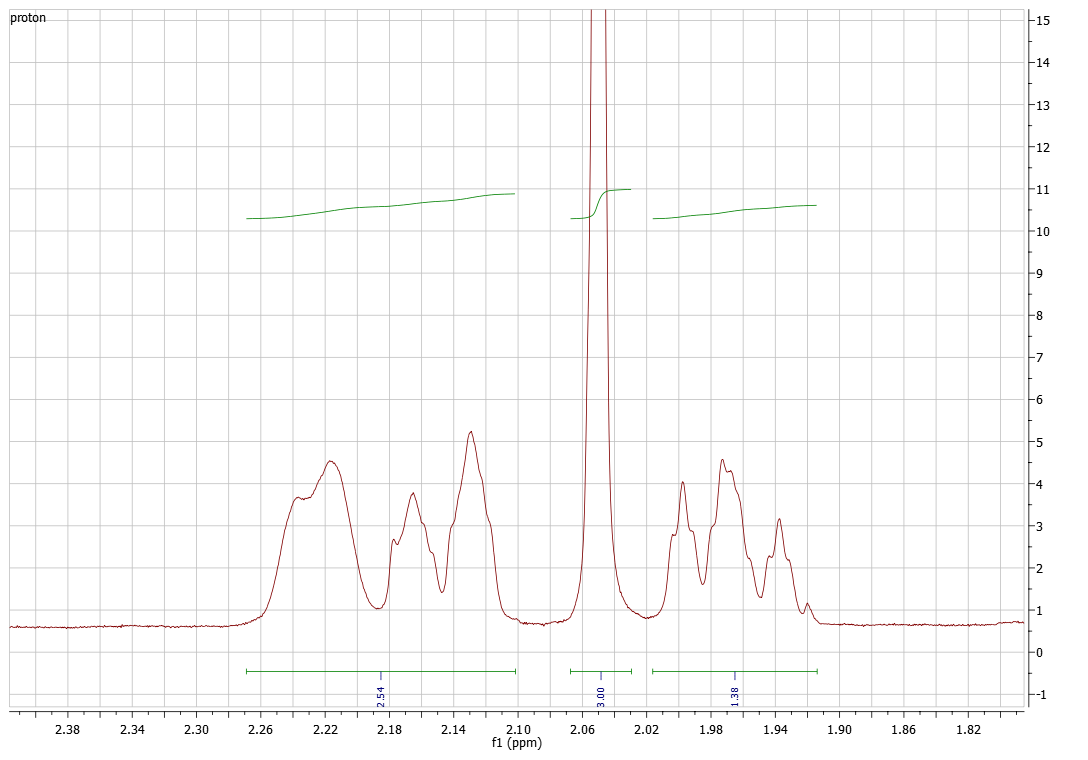
\*Email: [ifedayo.v.ogungbe@jsums.edu](mailto:ifedayo.v.ogungbe@jsums.edu)



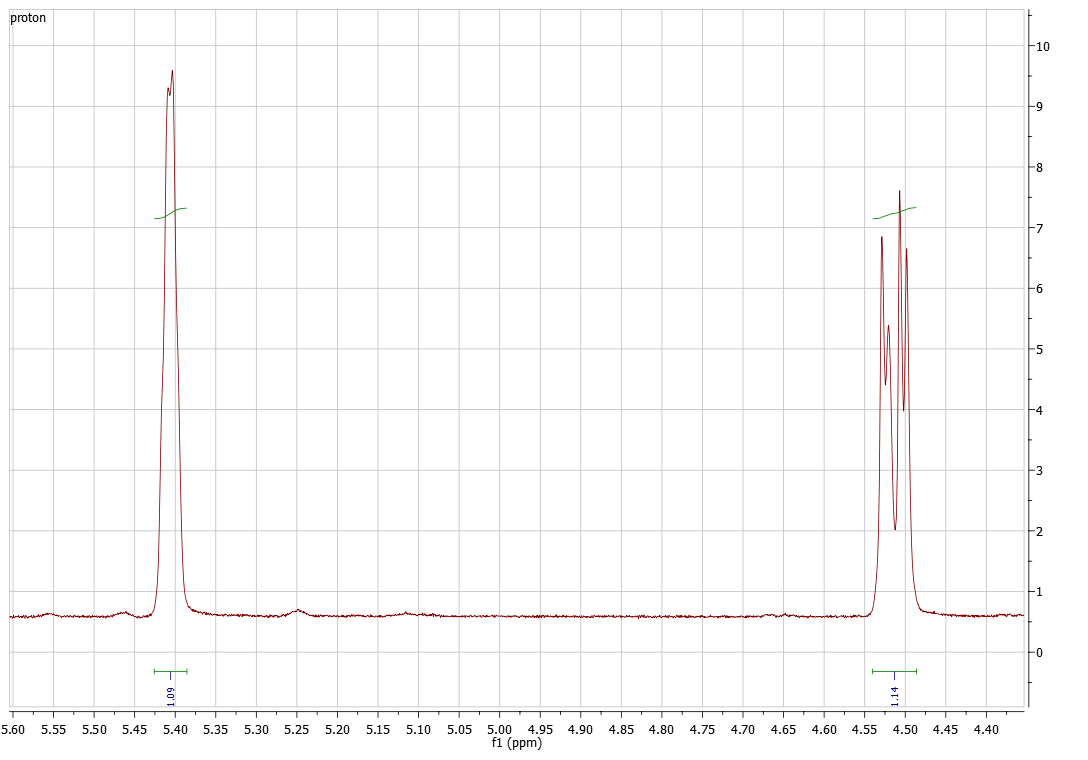


**Figure S1.** 1H NMR Data of **1**.

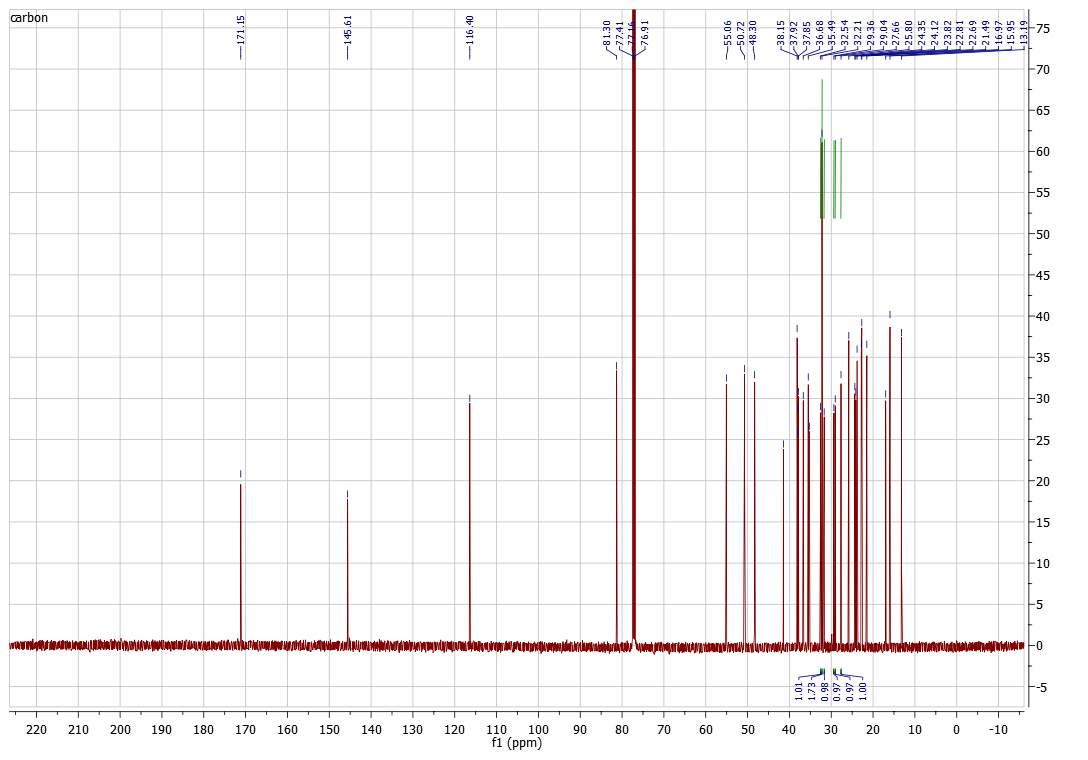




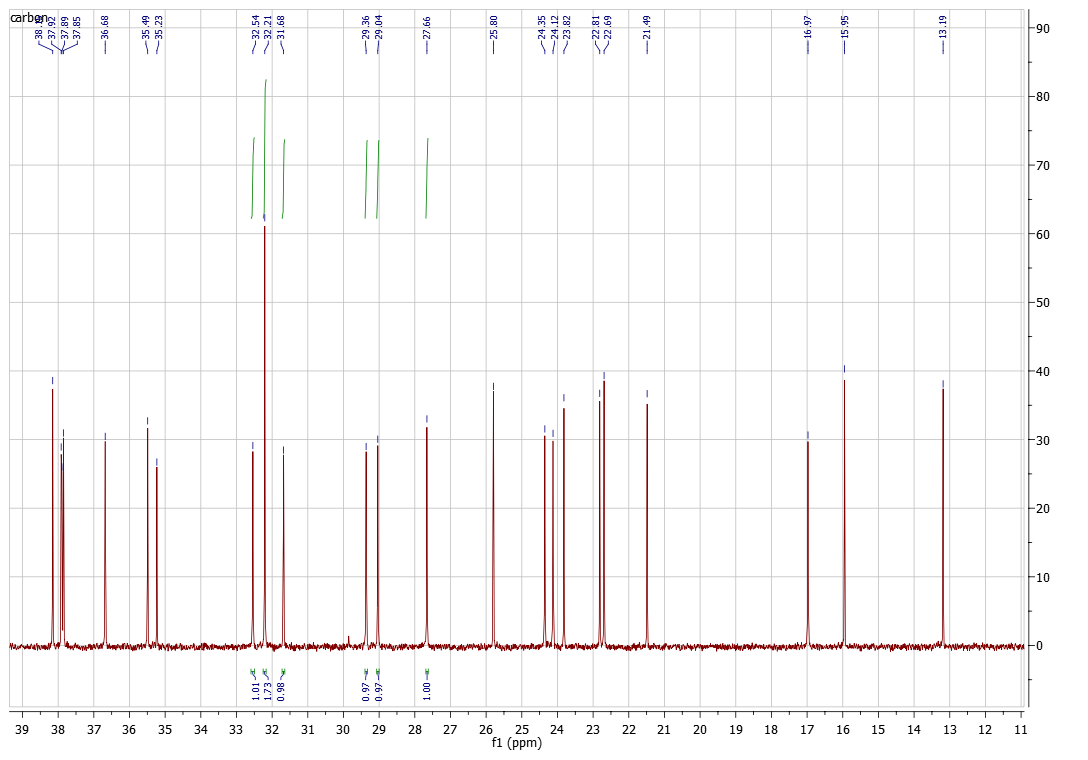
**Figure S1 Contd.** 1H NMR Data of **1**.

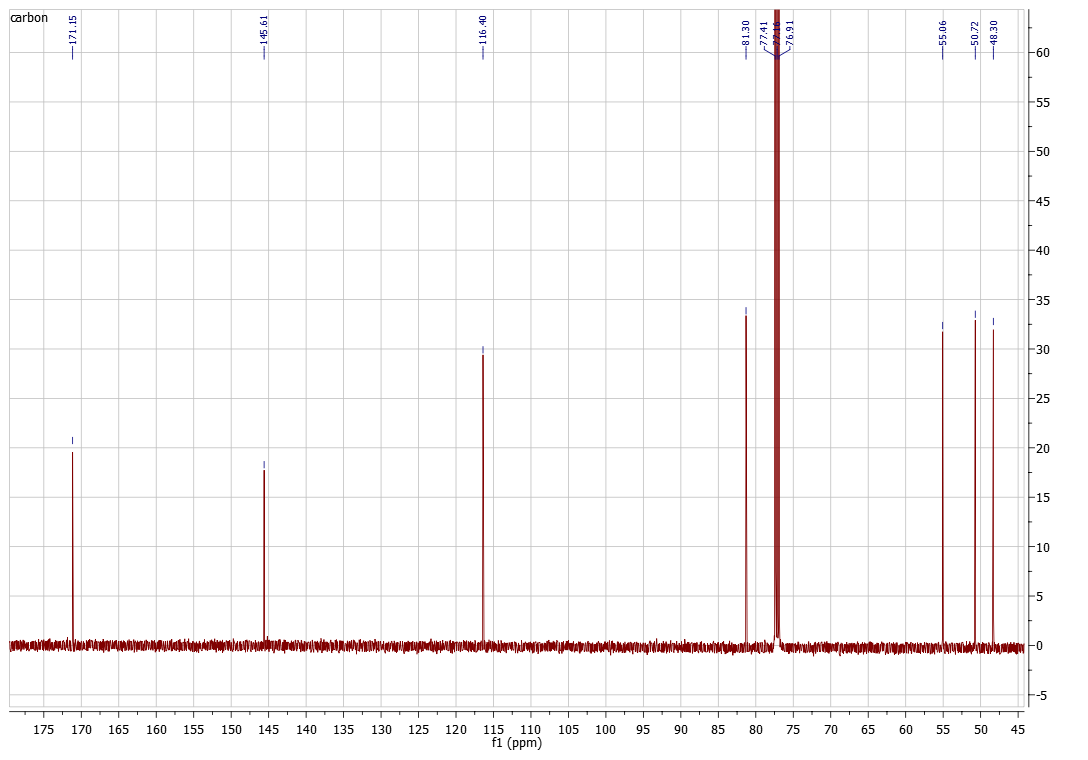


**Figure S1 Contd.** 1H NMR Data of **1**.

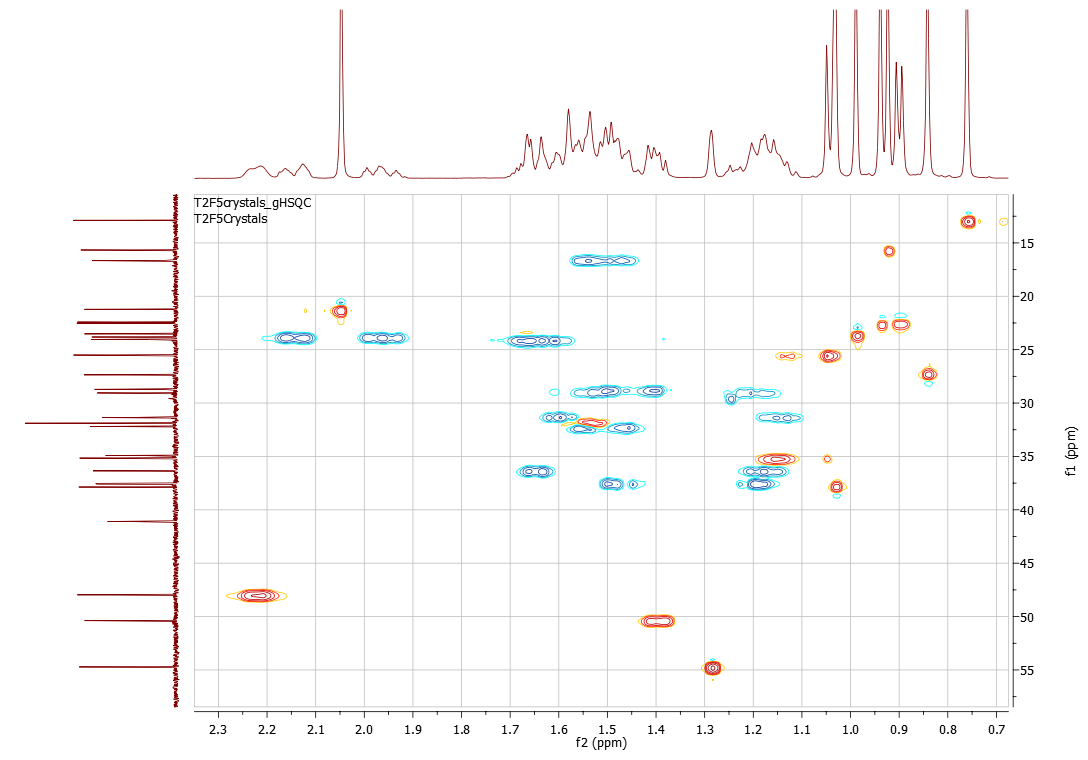


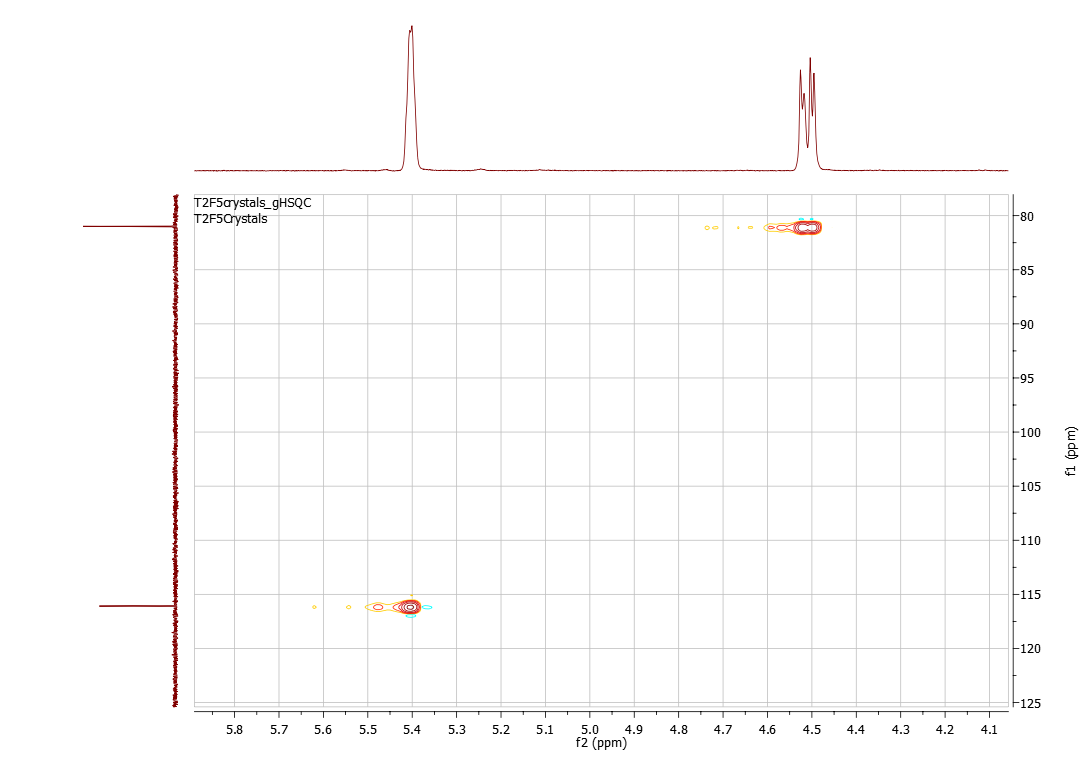
**Figure S1.** 13C NMR Data of **1**.



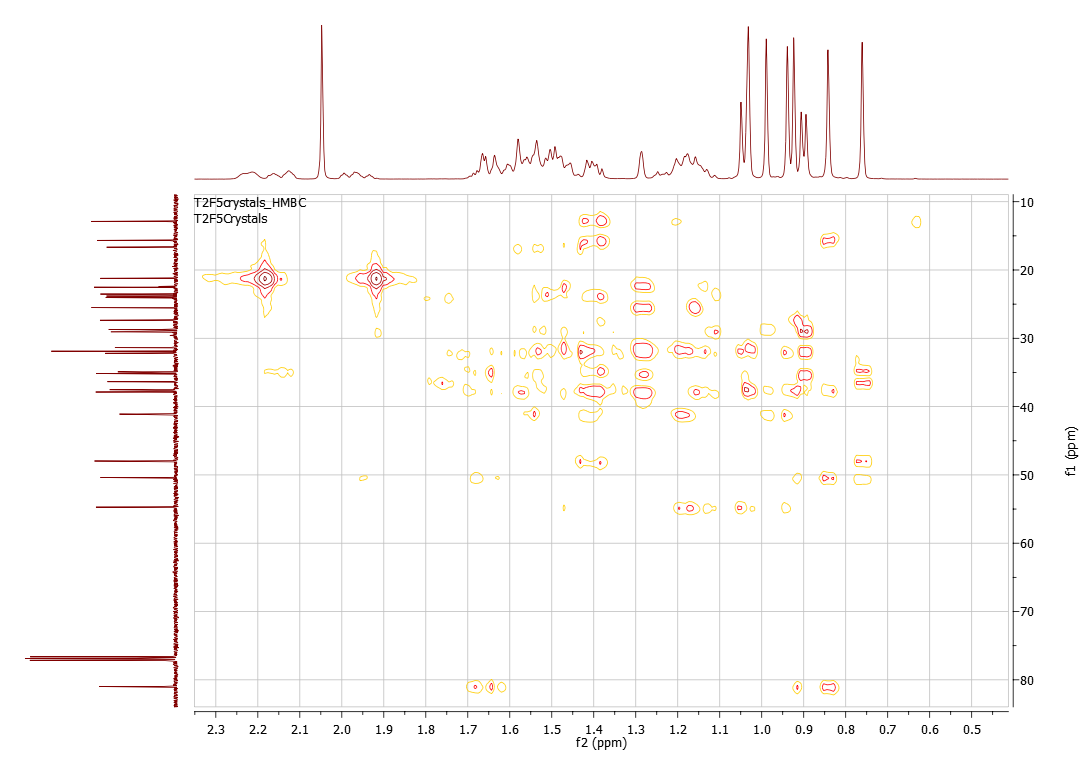


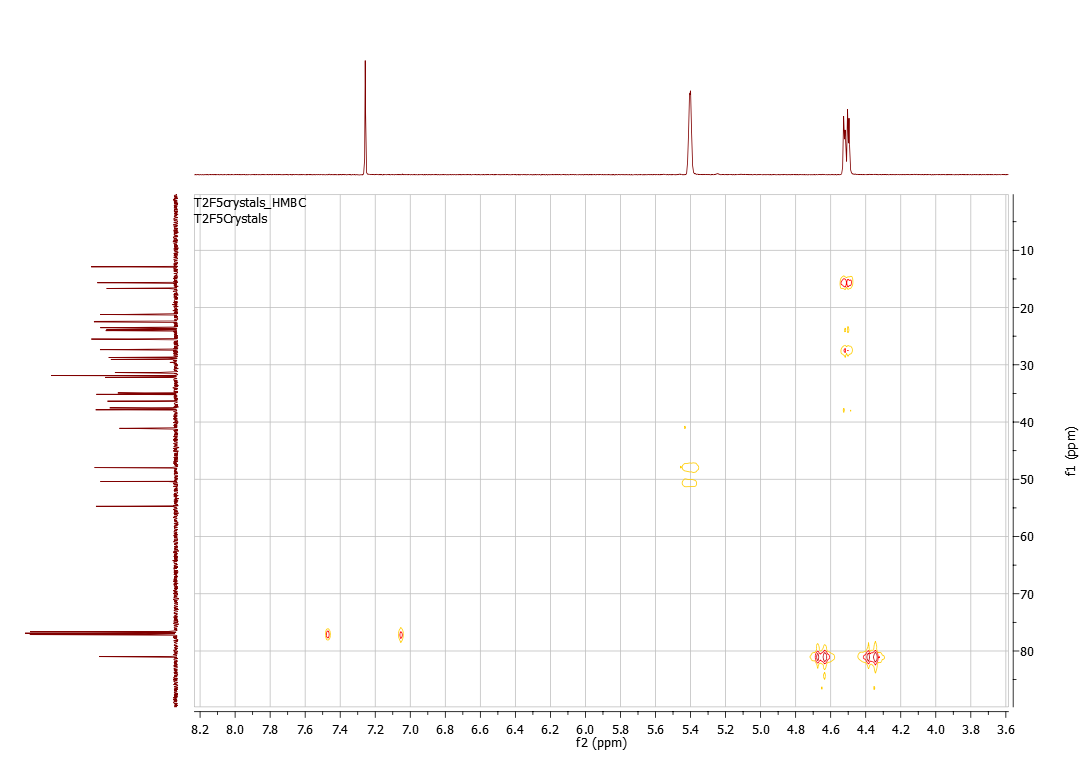
**Figure S1 Contd.** 13C NMR Data of **1**.



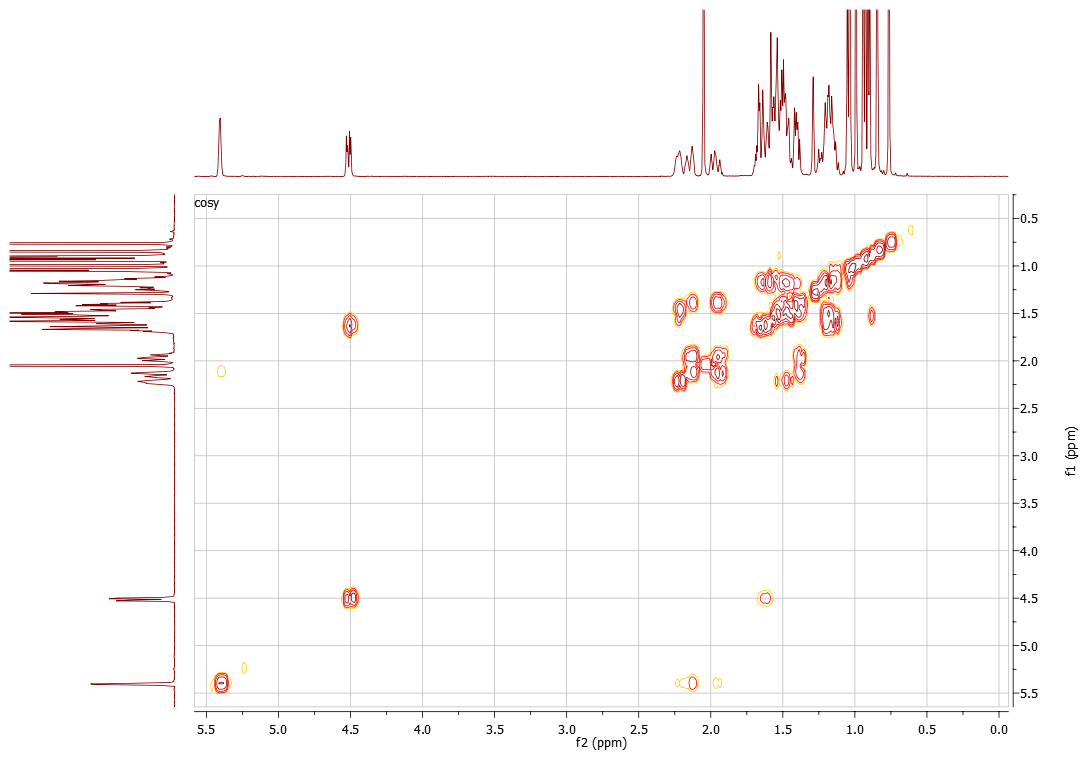


**Figure S1 Contd.** gHSQC NMR Data of **1**.

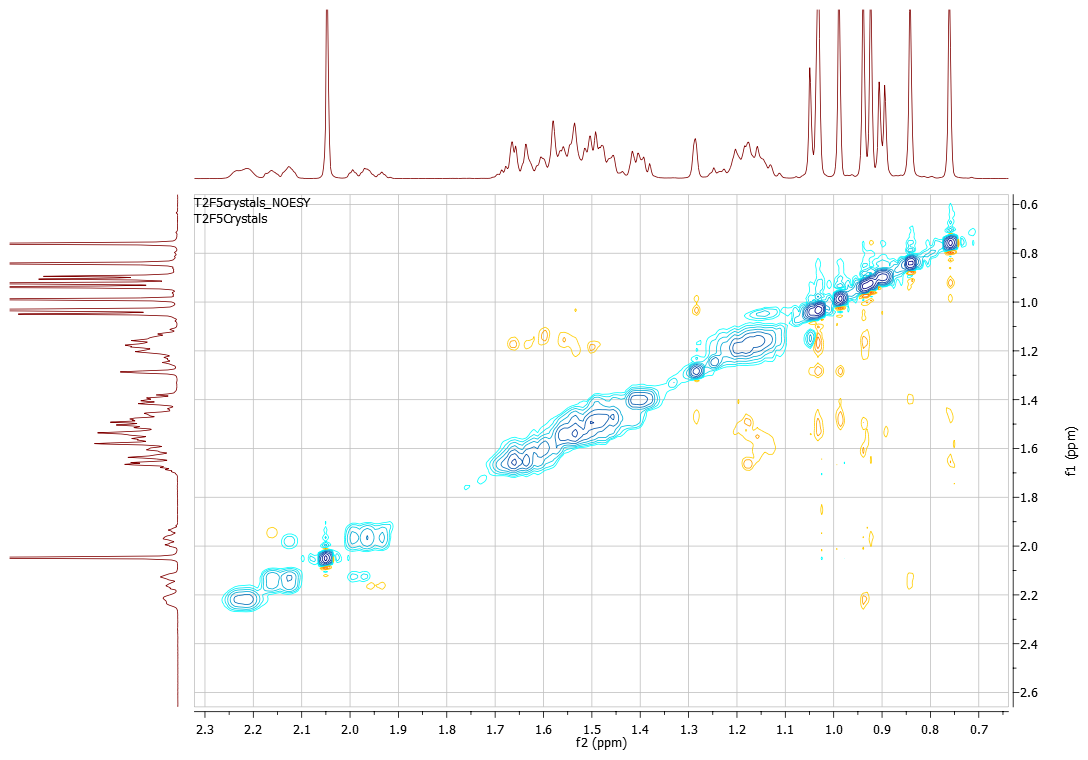




**Figure S1 Contd.** gHMBC NMR Data of 1.



**Figure S1 Contd.** gCOSY NMR Data of **1**.

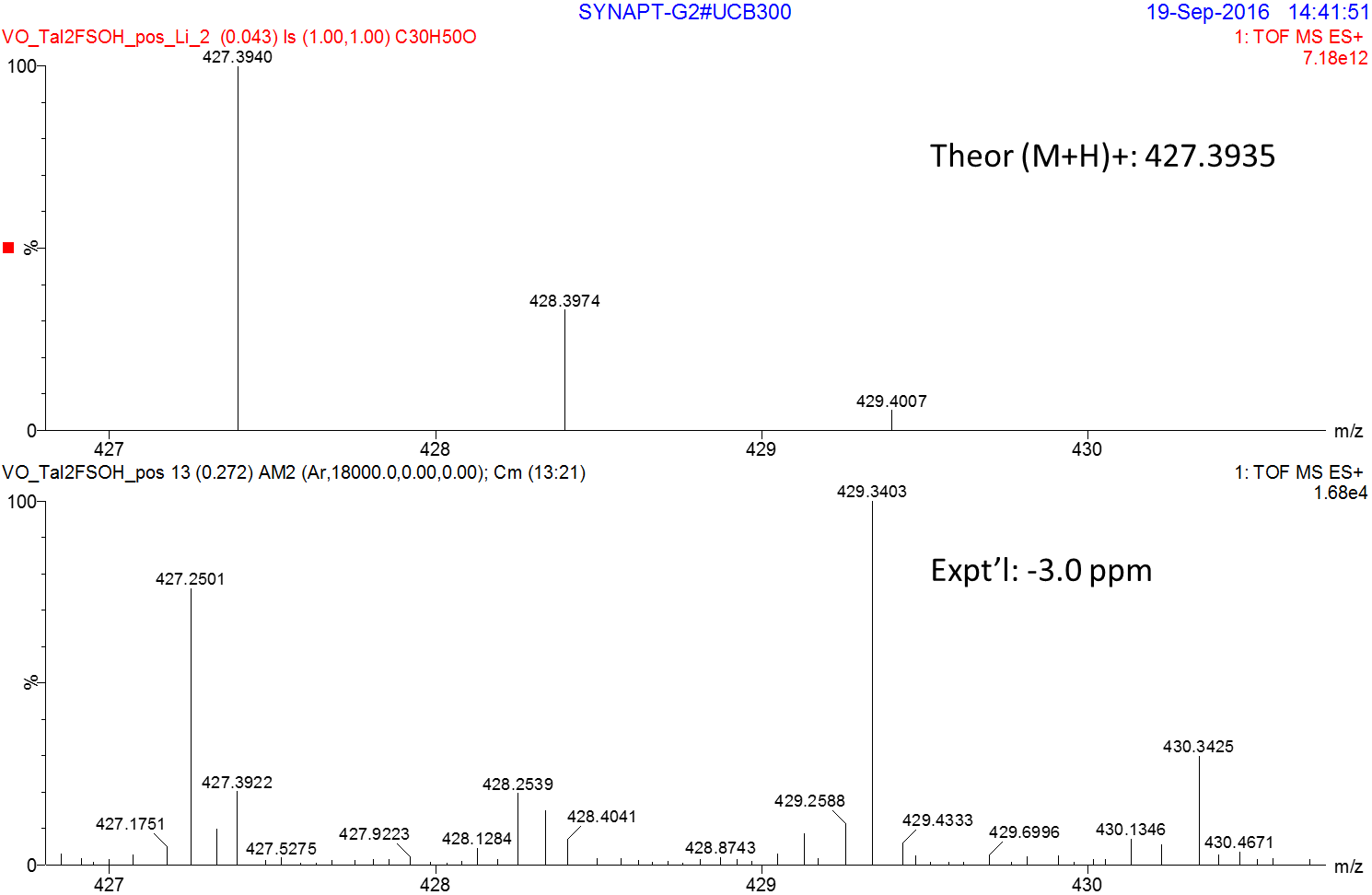


**Figure S1 Contd.** NOESY NMR Data of **1**.

**A**



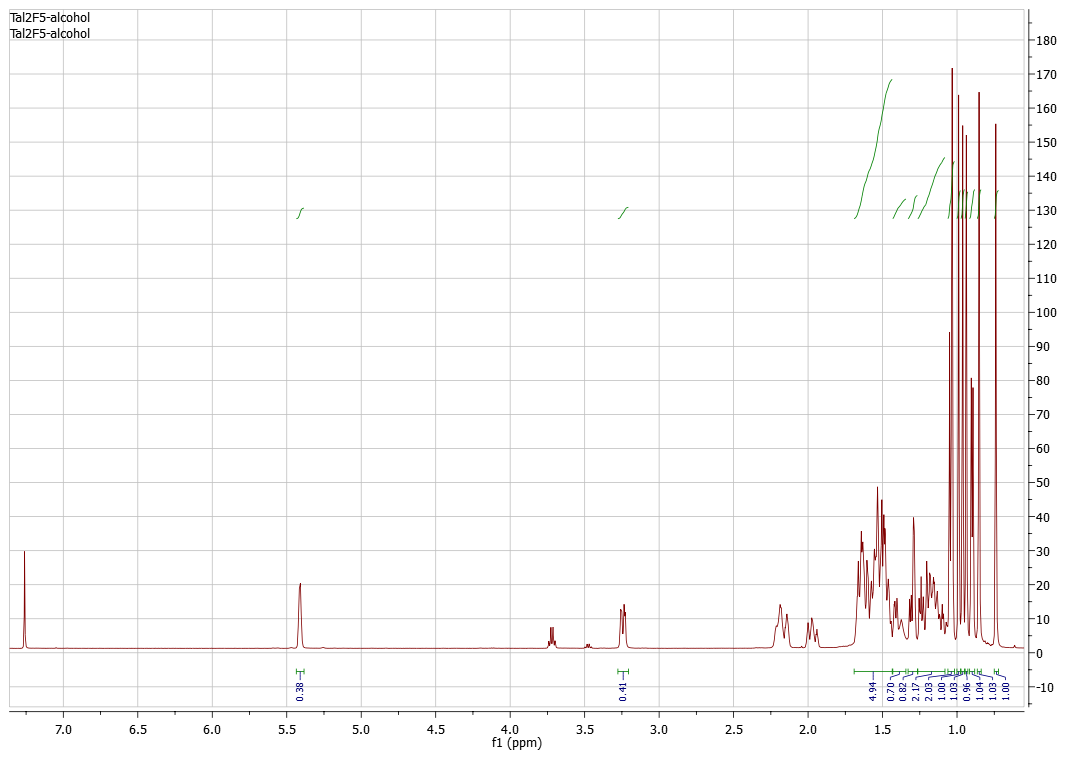
**B**

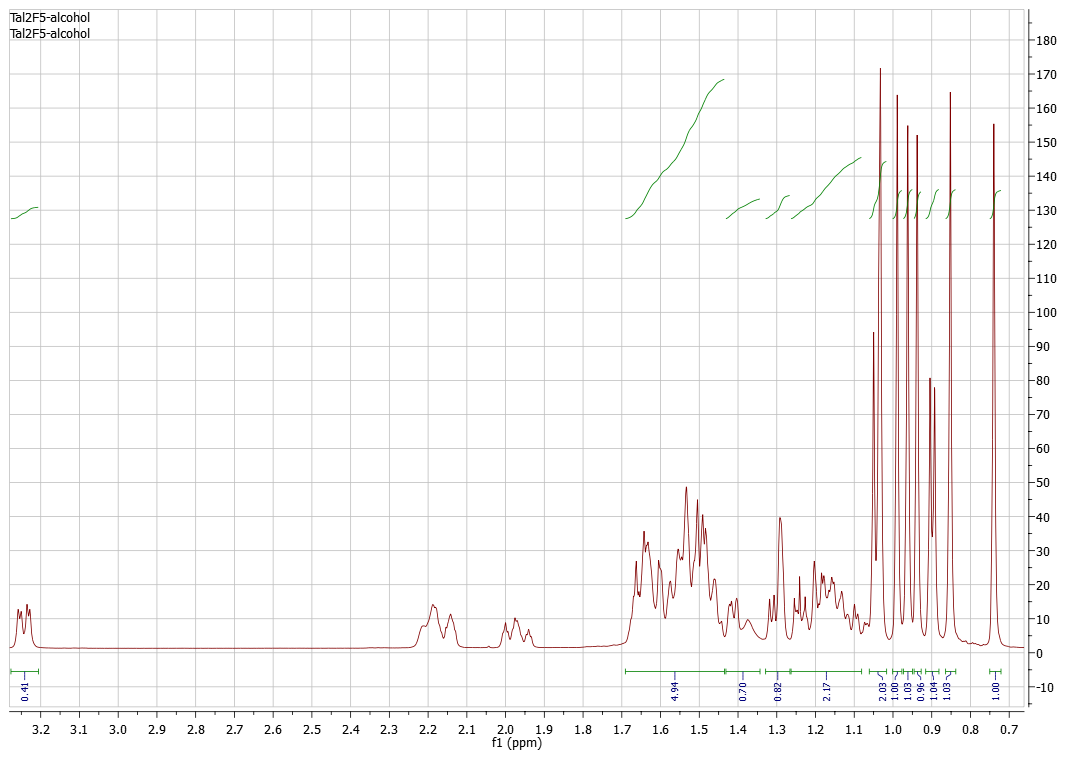


**Figure S2.** Mass Spectra Data of **1**(A) and **2**(B)

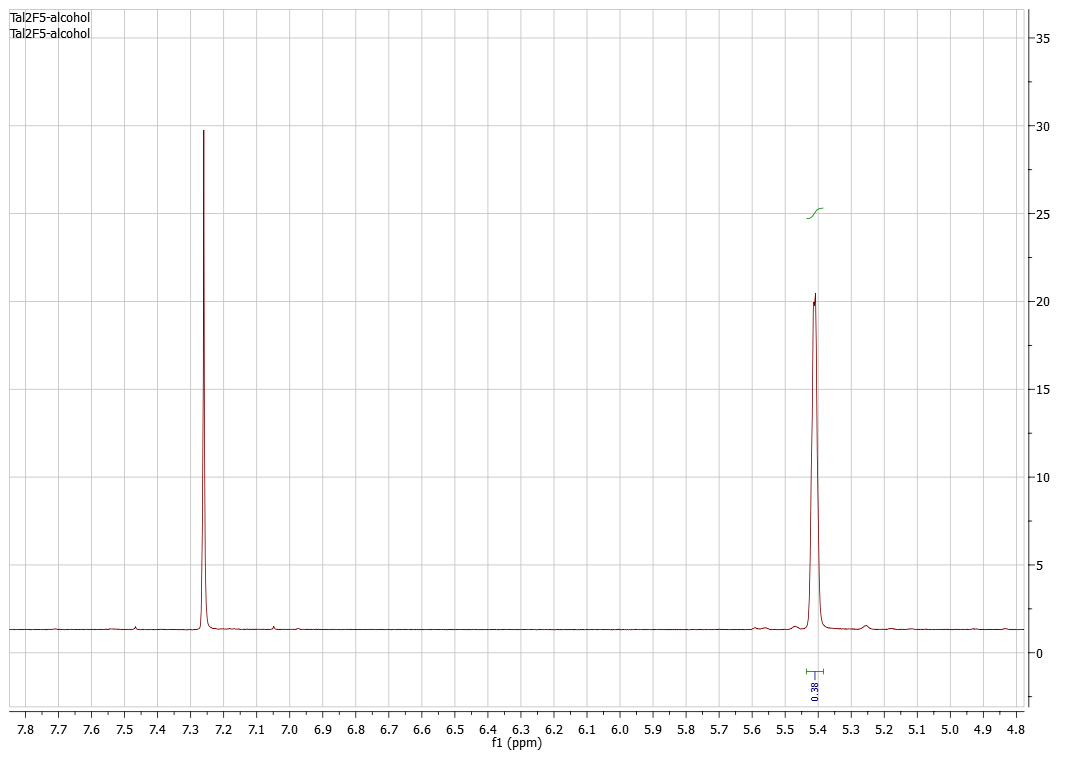


**Figure S3**. Levels of cholesterol in parasite treated with **2.** The peak height values are expressed in Log.The levels of cholesterol in the parasite was significantly increased after 4-hour exposure to5 µM of **2**.

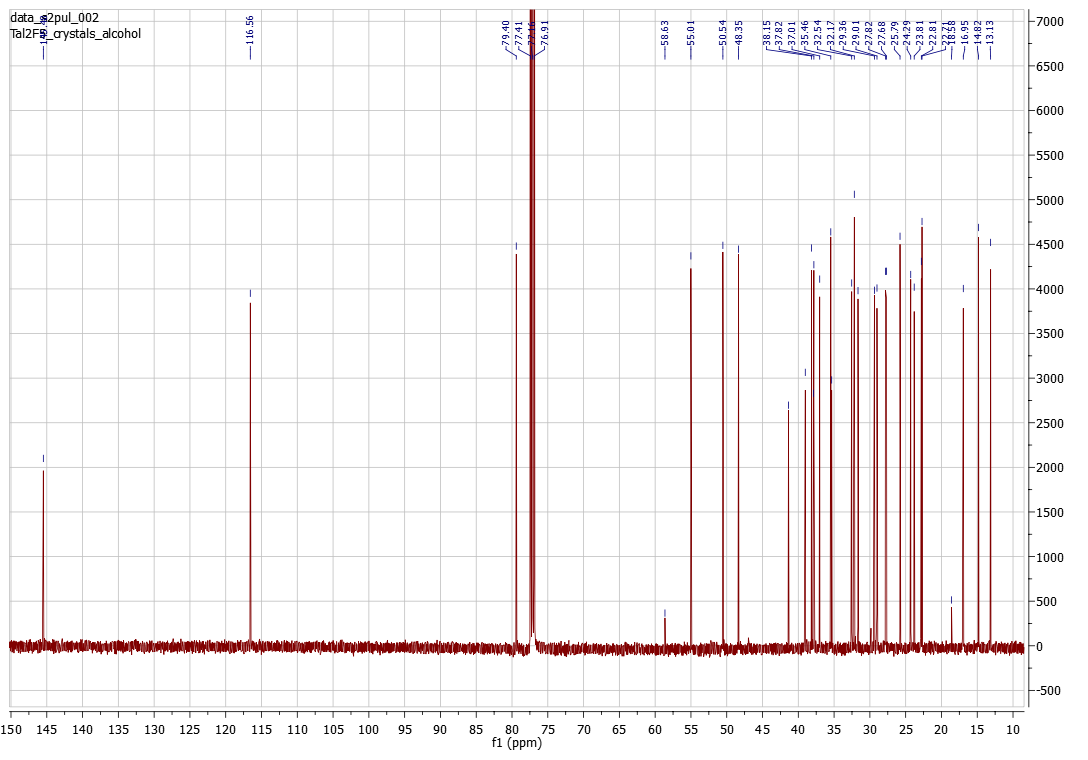




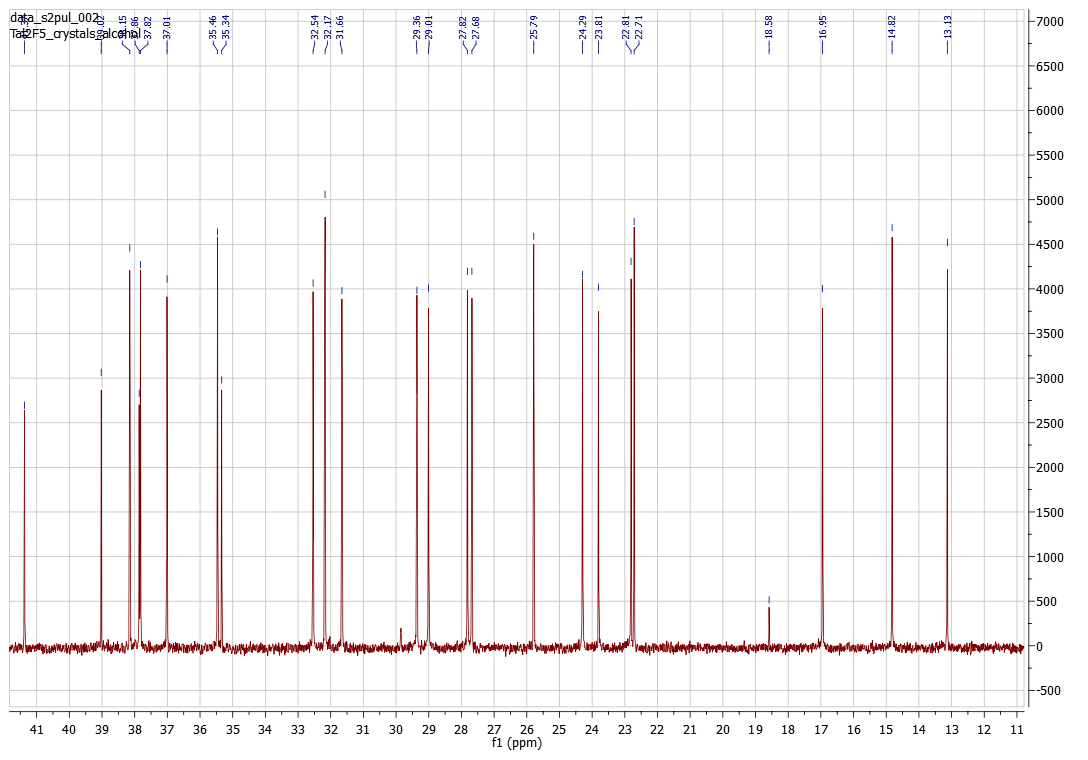
**Figure S4. 1**H NMR Data of **2**.

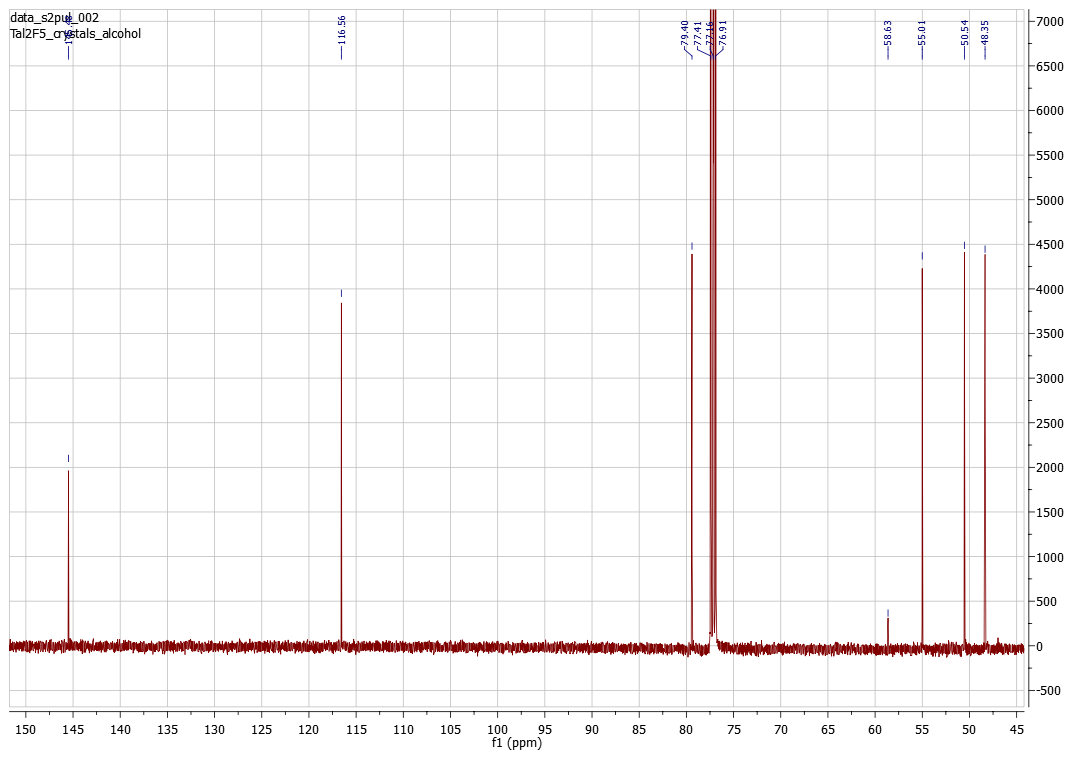


**Figure S4 Contd. 1**H NMR Data of **2**.

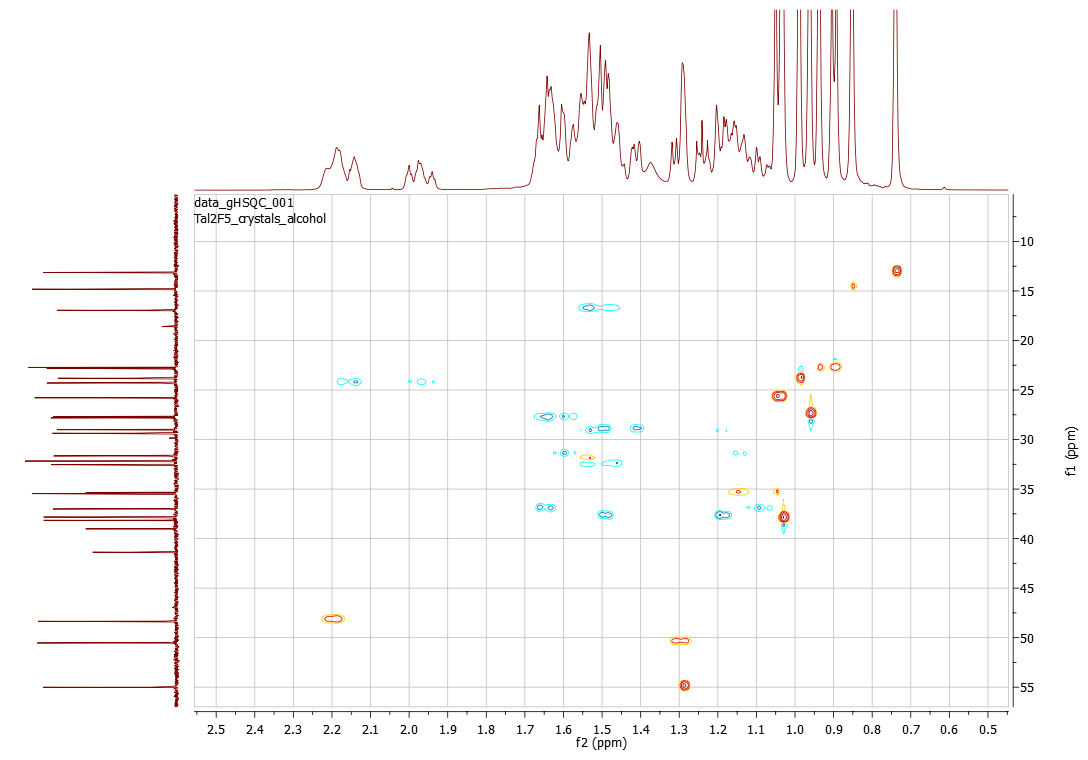


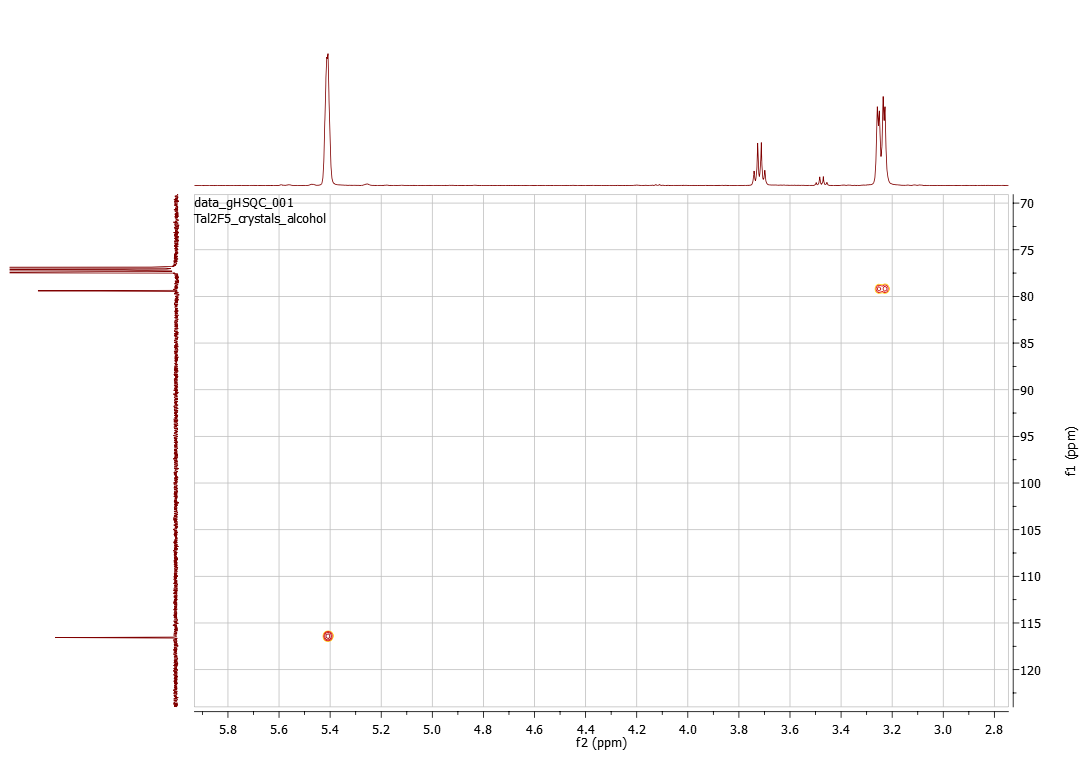
**Figure S4. 13**C NMR Data of **2**.



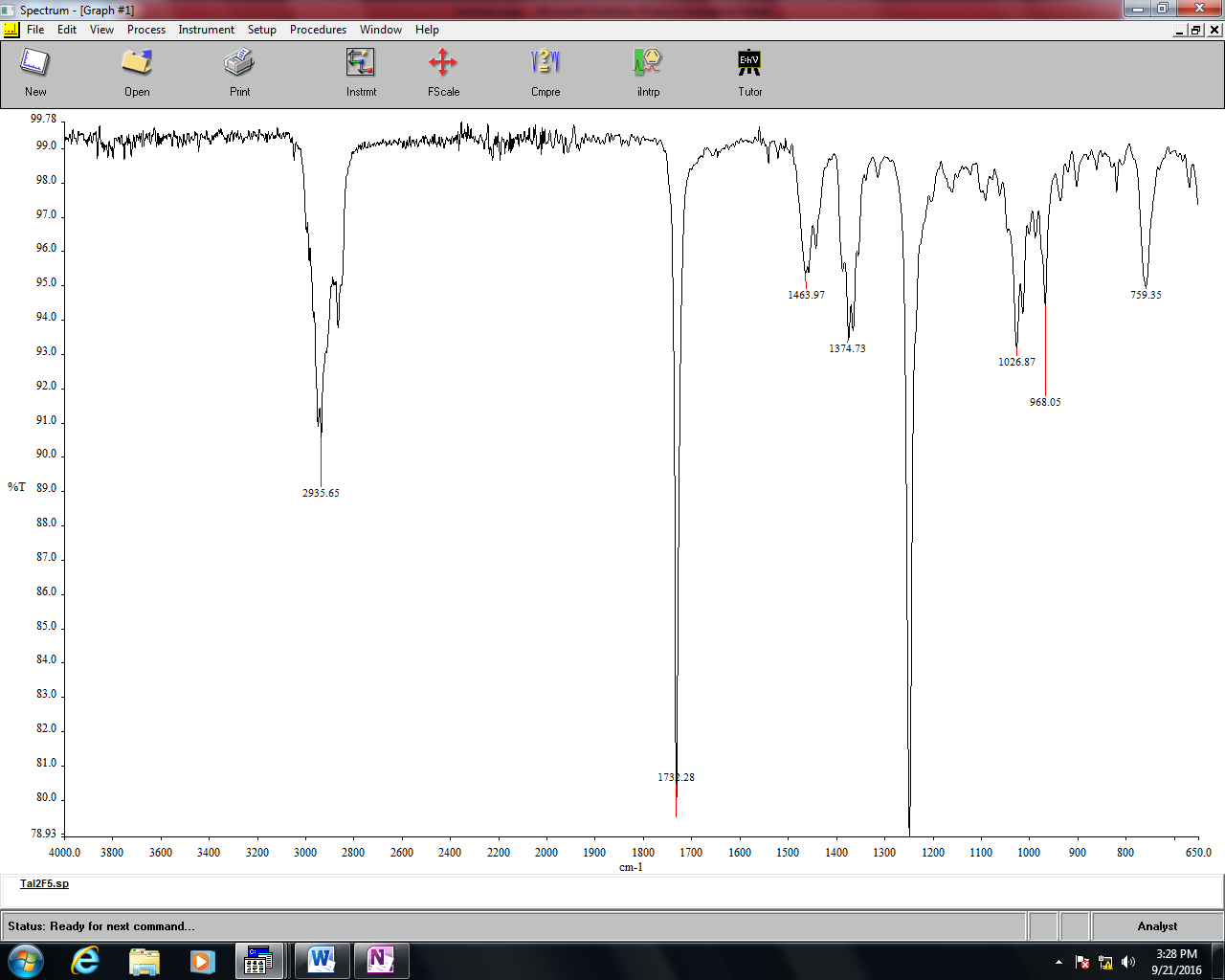


**Figure S4 Contd. 13**C NMR Data of **2**.





**Figure S4 Contd.** gHSQC NMR Data of **2**.

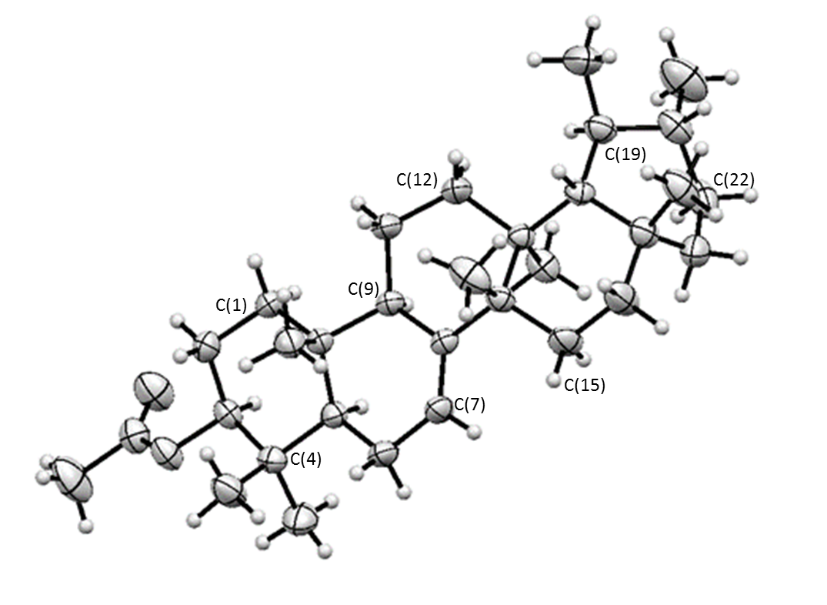


**A**

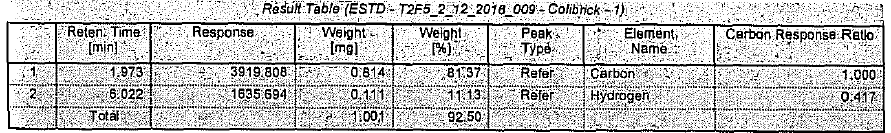


**B**

**Figure S5**. IR Spectra of **1**(A) and **2**(B).



**Figure S6.** X-ray crystal structure (ORTEP drawing) of **1**



**Figure S7:** CH Elemental composition of **1**