

Synthesis of Telmisartan Organotin(IV) Complexes and their use as Carbon Dioxide Capture Media

Angham G. Hadi¹, Khudheyer Jawad¹, Emad Yousif^{2,*}, Gamal A. El-Hiti^{3,*},
Mohammad Hayal Alotaibi⁴, and Dina S. Ahmed⁵

¹ Department of Chemistry, College of Science, Babylon University, Babil 51002, Iraq; analhusainy@gmail.com (A.G.H.); khudheyer1965@gmail.com (K.J.)

² Department of Chemistry, College of Science, Al-Nahrain University, Baghdad 64021, Iraq

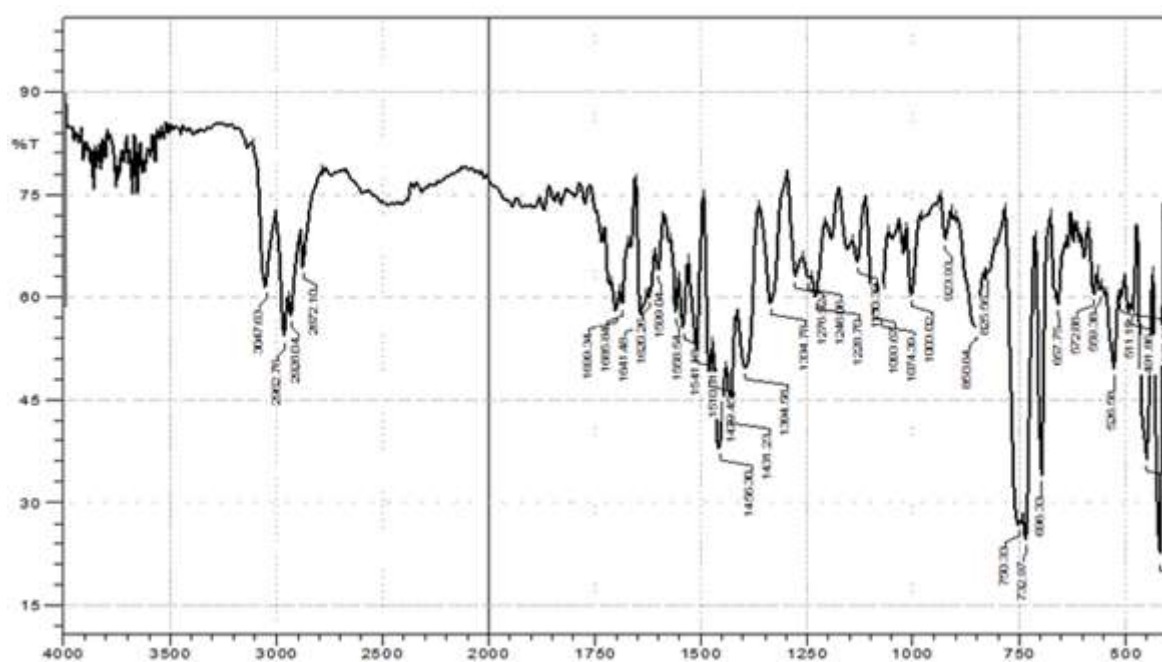
³ Department of Optometry, College of Applied Medical Sciences, King Saud University, P.O. Box 10219, Riyadh 11433, Saudi Arabia

⁴ National Center for Petrochemicals Technology, King Abdulaziz City for Science and Technology, P.O. Box 6086, Riyadh 11442, Saudi Arabia; mhhalaotaibi@kacst.edu.sa

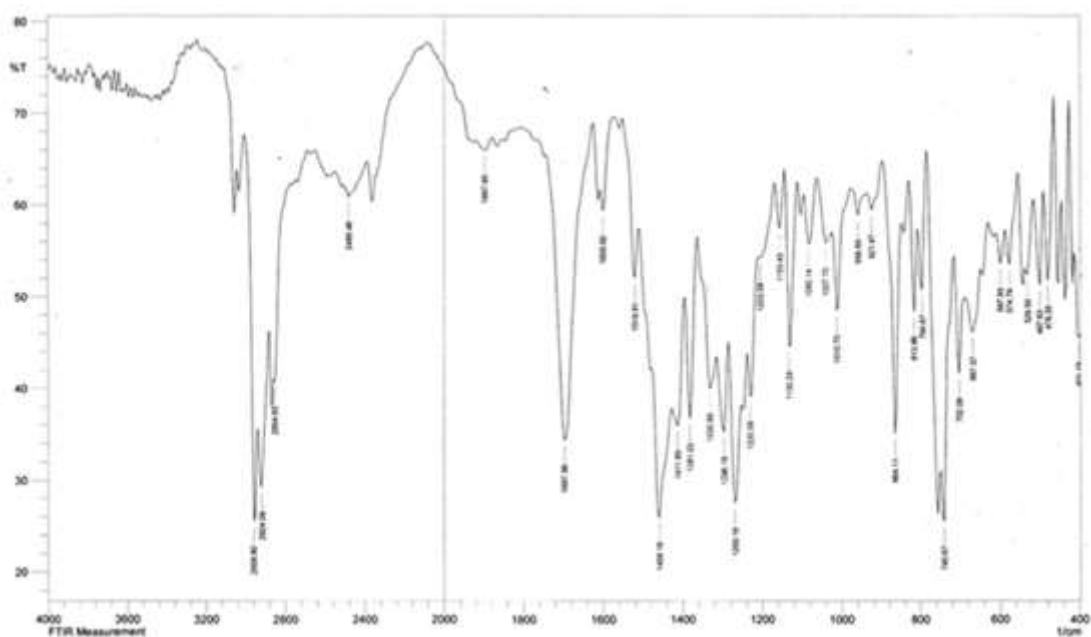
⁵ Department of Medical Instrumentation Engineering, Al-Mansour University College, Baghdad 64021, Iraq; dinasaadi86@gmail.com

* Correspondence: emadayousif@gmail.com (E.Y); gelhiti@ksu.edu.sa (G.A.E.-H.); Tel.: +966-11469-3778 (G.A.E.-H.); Fax: +966-11469-3536 (G.A.E.-H.)

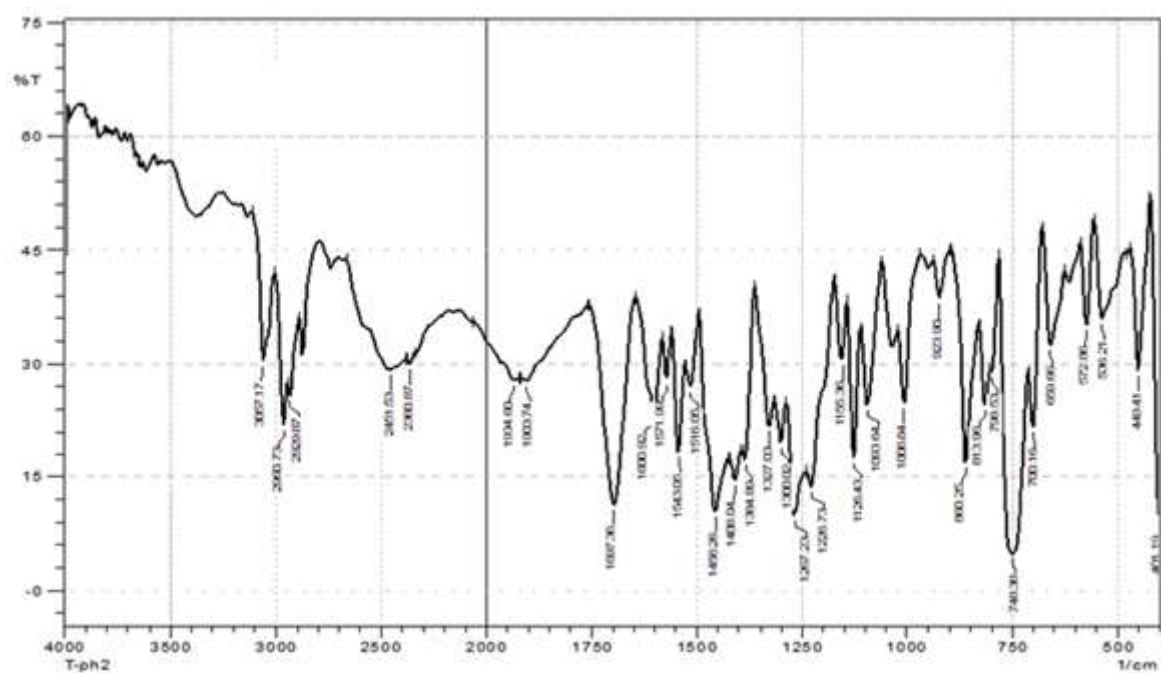
IR Spectra



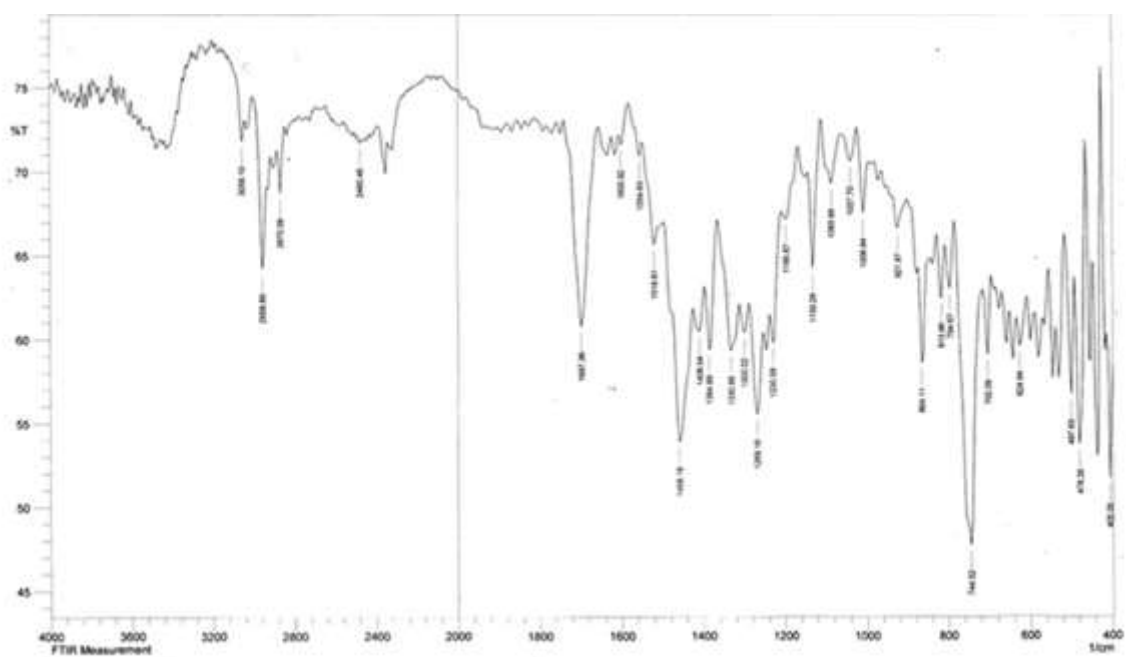
IR Spectrum of organotin(IV) complex 1.



IR Spectrum of organotin(IV) complex 2.

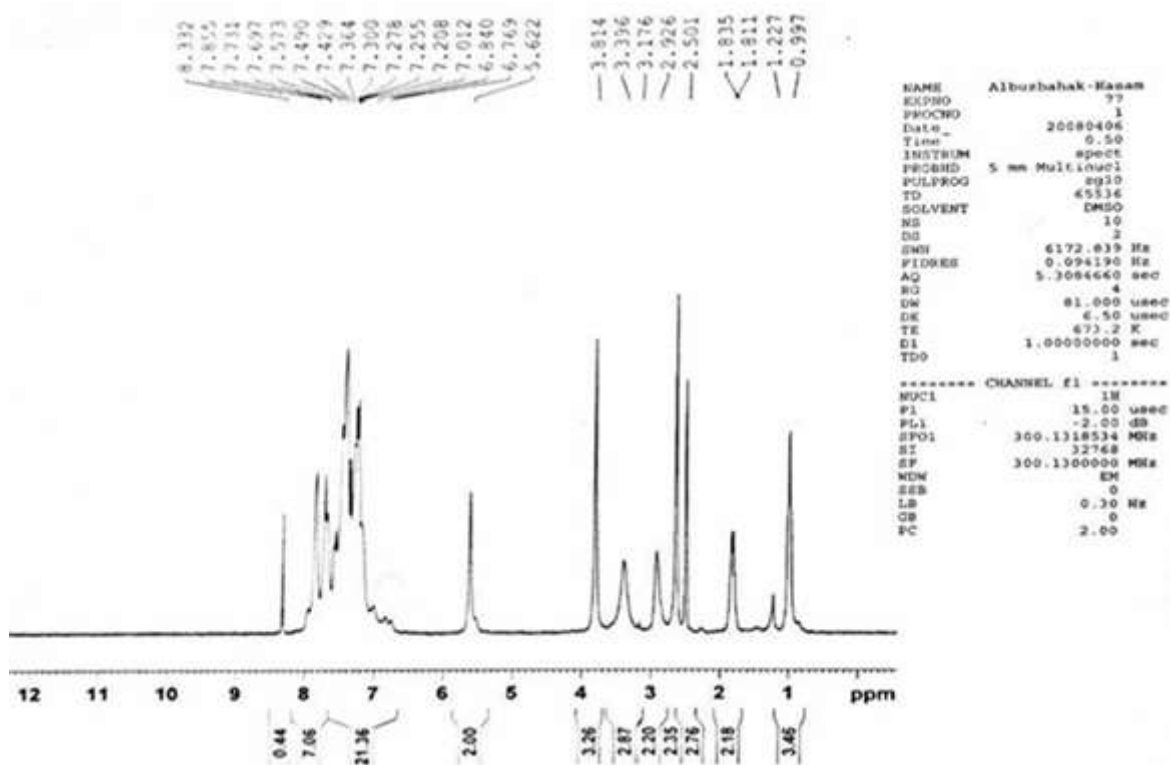


IR Spectrum of organotin(IV) complex 3.

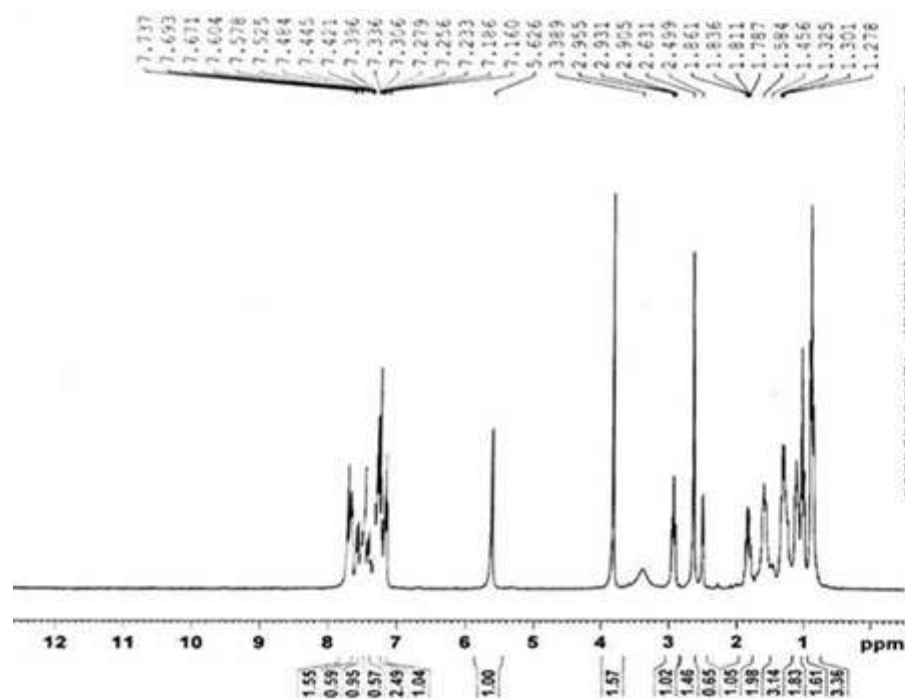


IR Spectrum of organotin(IV) complex 4.

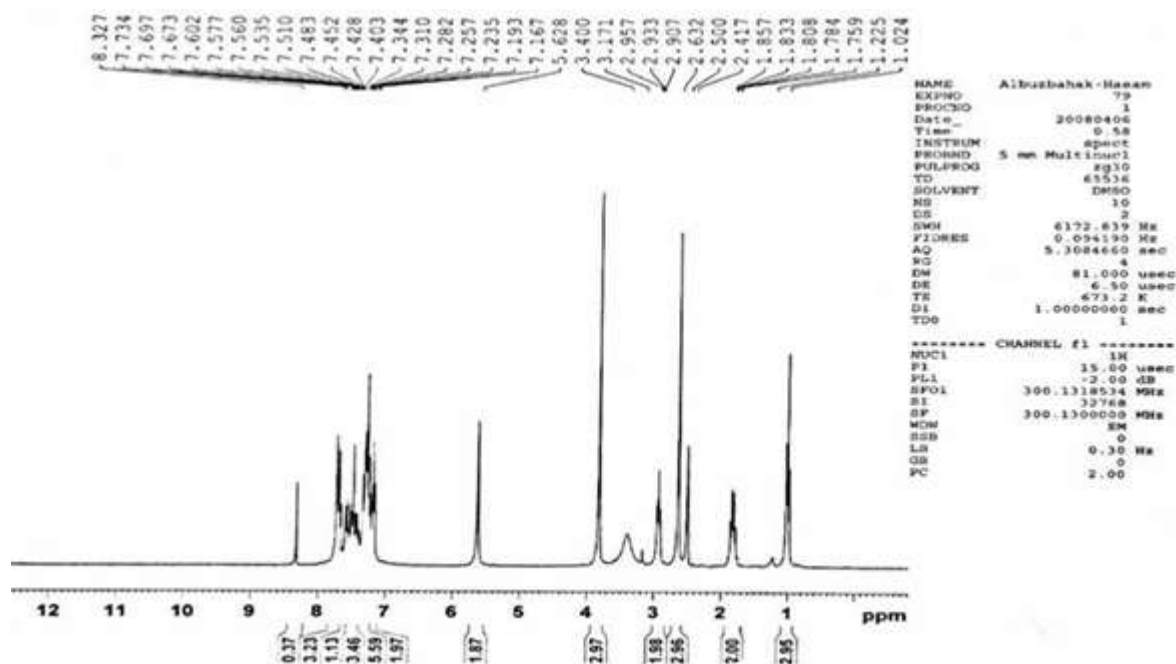
^1H NMR Spectra



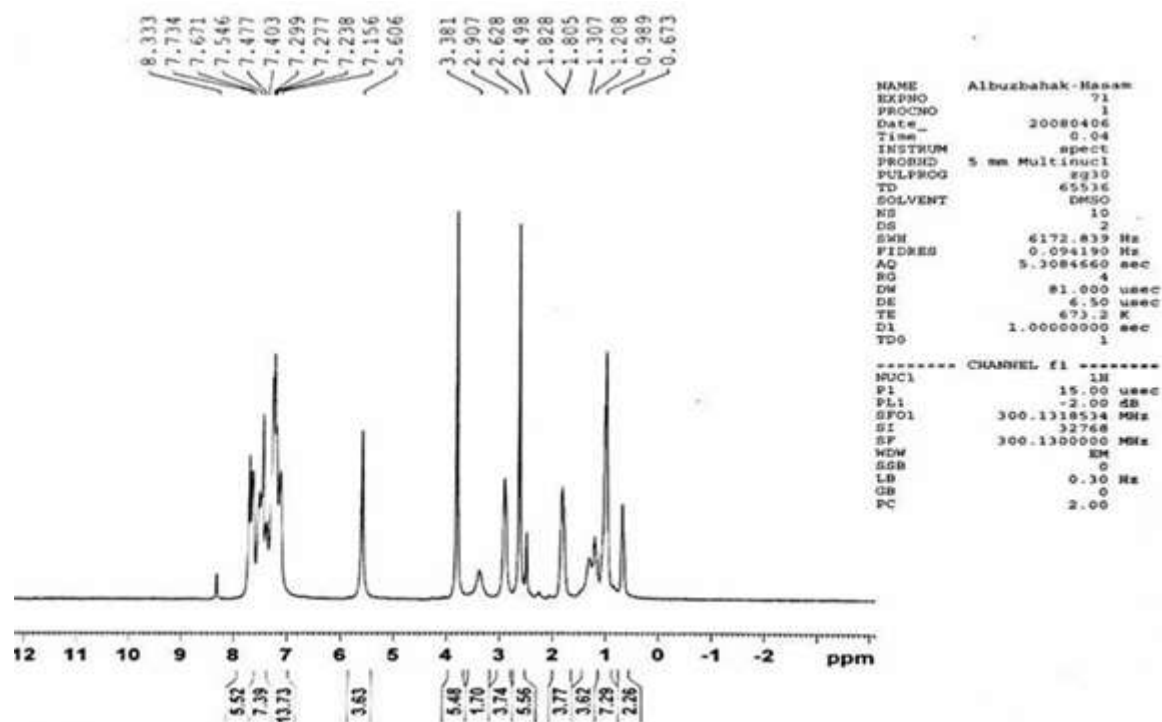
^1H NMR Spectrum of organotin(IV) complex 1.



^1H NMR Spectrum of organotin(IV) complex 2.



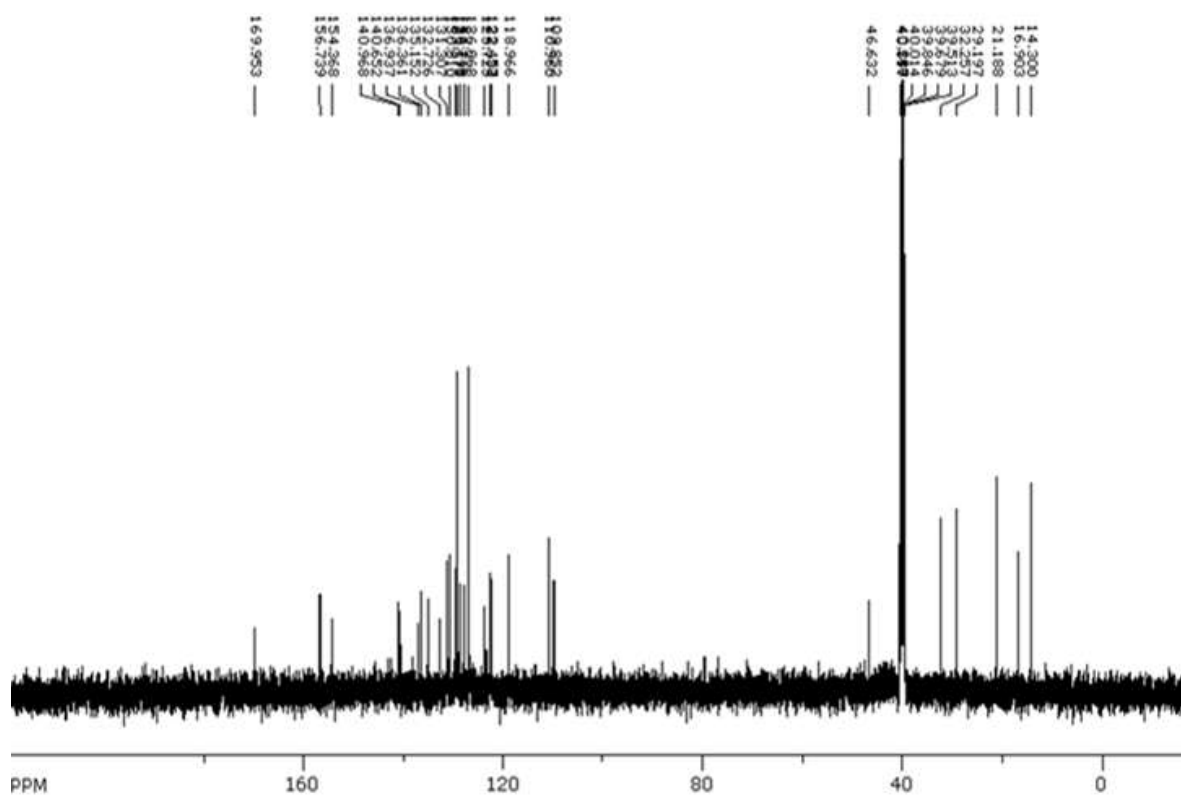
^1H NMR Spectrum of organotin(IV) complex 3.



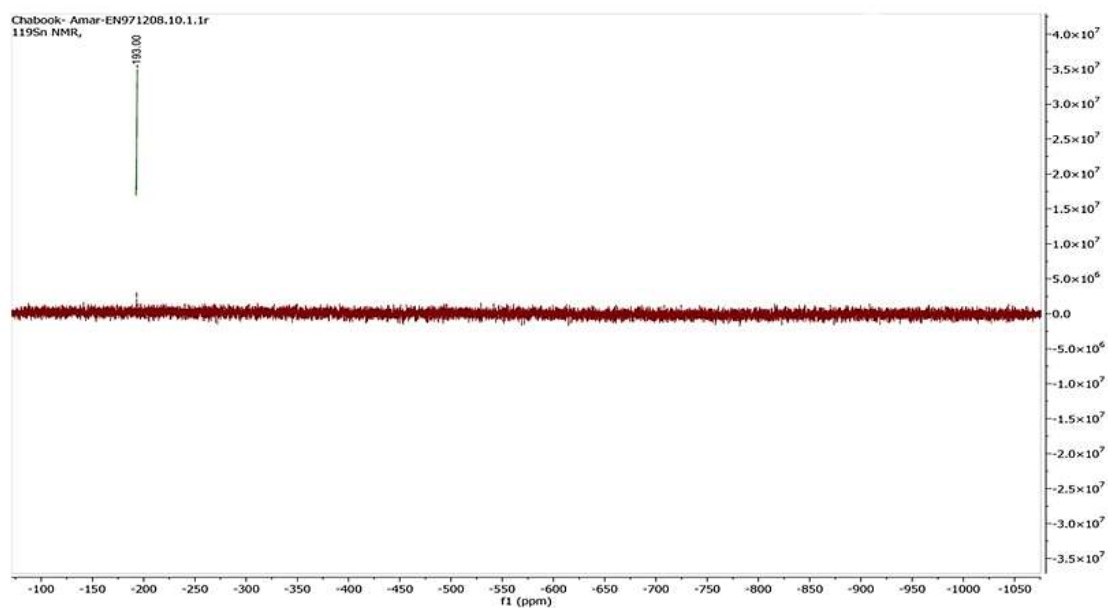
^1H NMR Spectrum of organotin(IV) complex 4.

^{13}C NMR Spectra

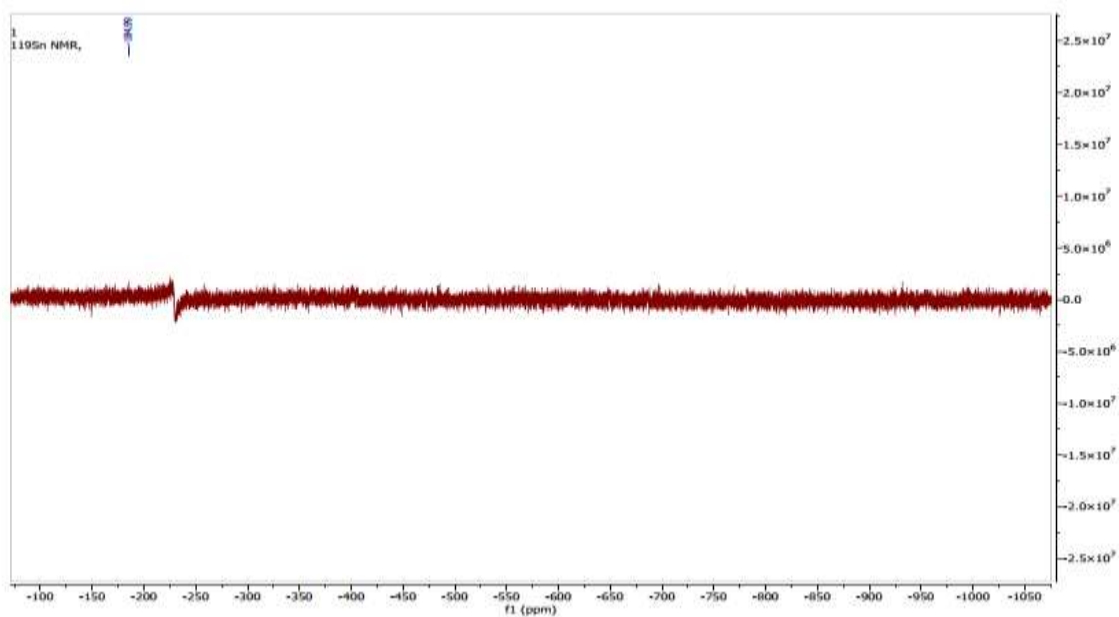




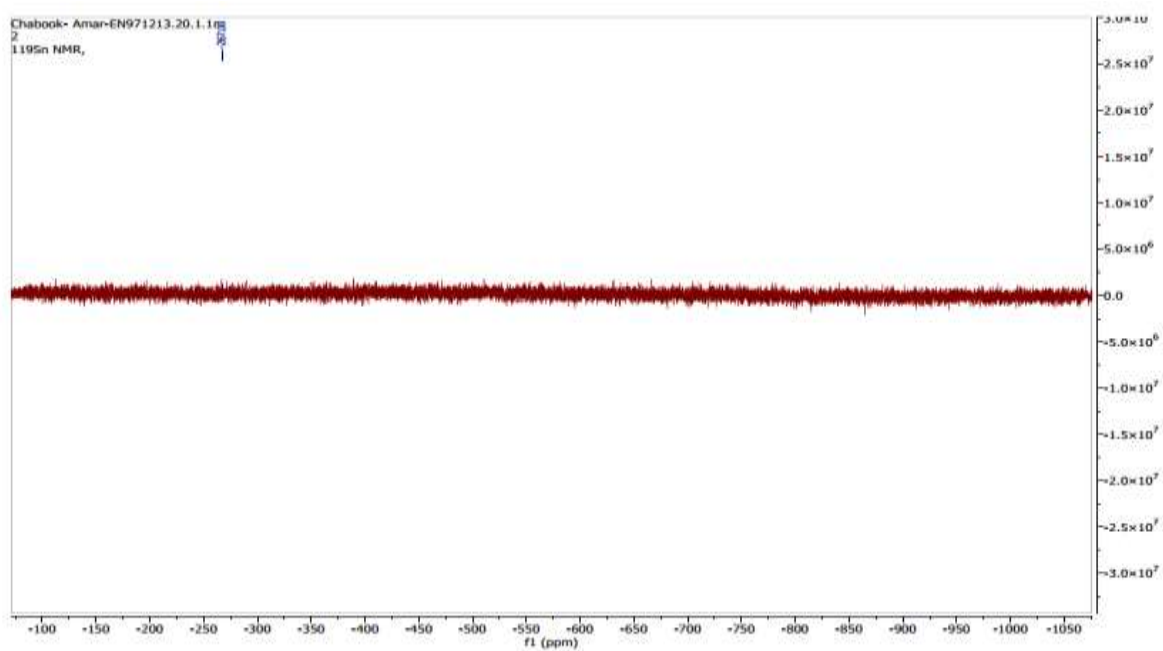
^{119}Sn NMR Spectra



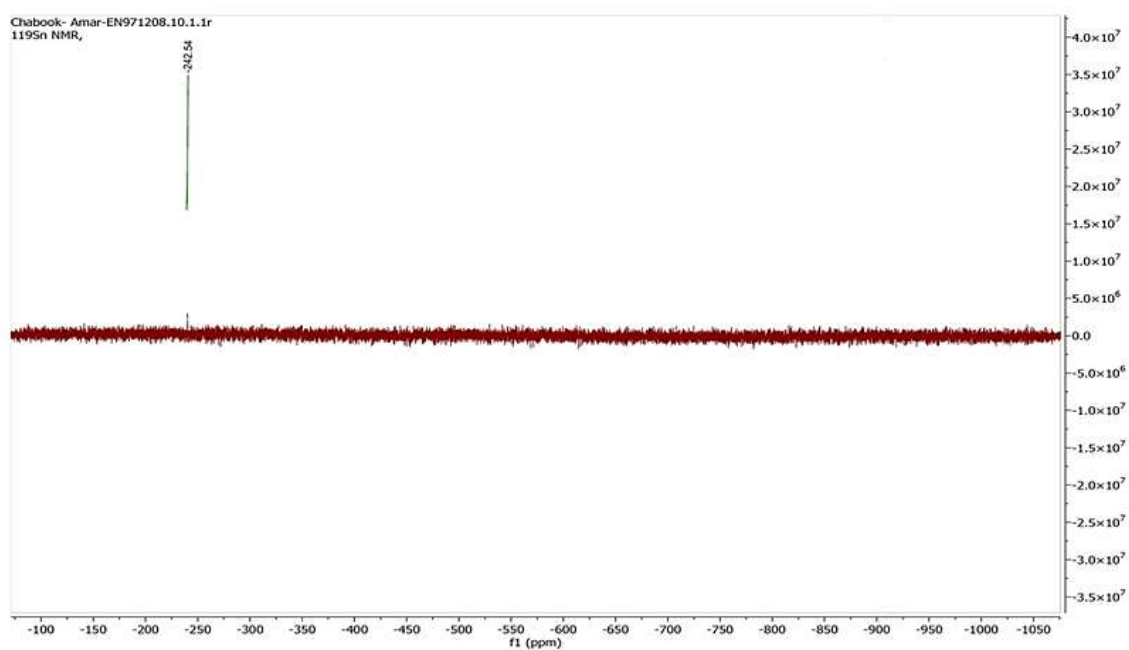
^{119}Sn NMR Spectrum of organotin(IV) complex **1**.



^{119}Sn NMR Spectrum of organotin(IV) complex **2**.



^{119}Sn NMR Spectrum of organotin(IV) complex **3**.



^{119}Sn NMR Spectrum of organotin(IV) complex **4**.