

Figure 1: Expanded aromatic region of the GHSQC spectrum of ~ 0.25 μ mol of 1. Data were acquired as 512 x 32 hypercomplex files in F₁, with 256 transients per t_1 increment using a Varian INOVA 600 MHz spectrometer equipped with a Nalorac Z•SPEC SMIDG™-600-1.7 SubMicro Inverse Detection Gradient NMR probe. The sample was dissolved in 30 μ L 99.996 % DMSO- d_6 . Data were linear predicted to 512 x 256 points prior to transformation. Data were processed using gaussian multiplication prior to both transformations. Total acquisition time was 5 hrs and 49 min.

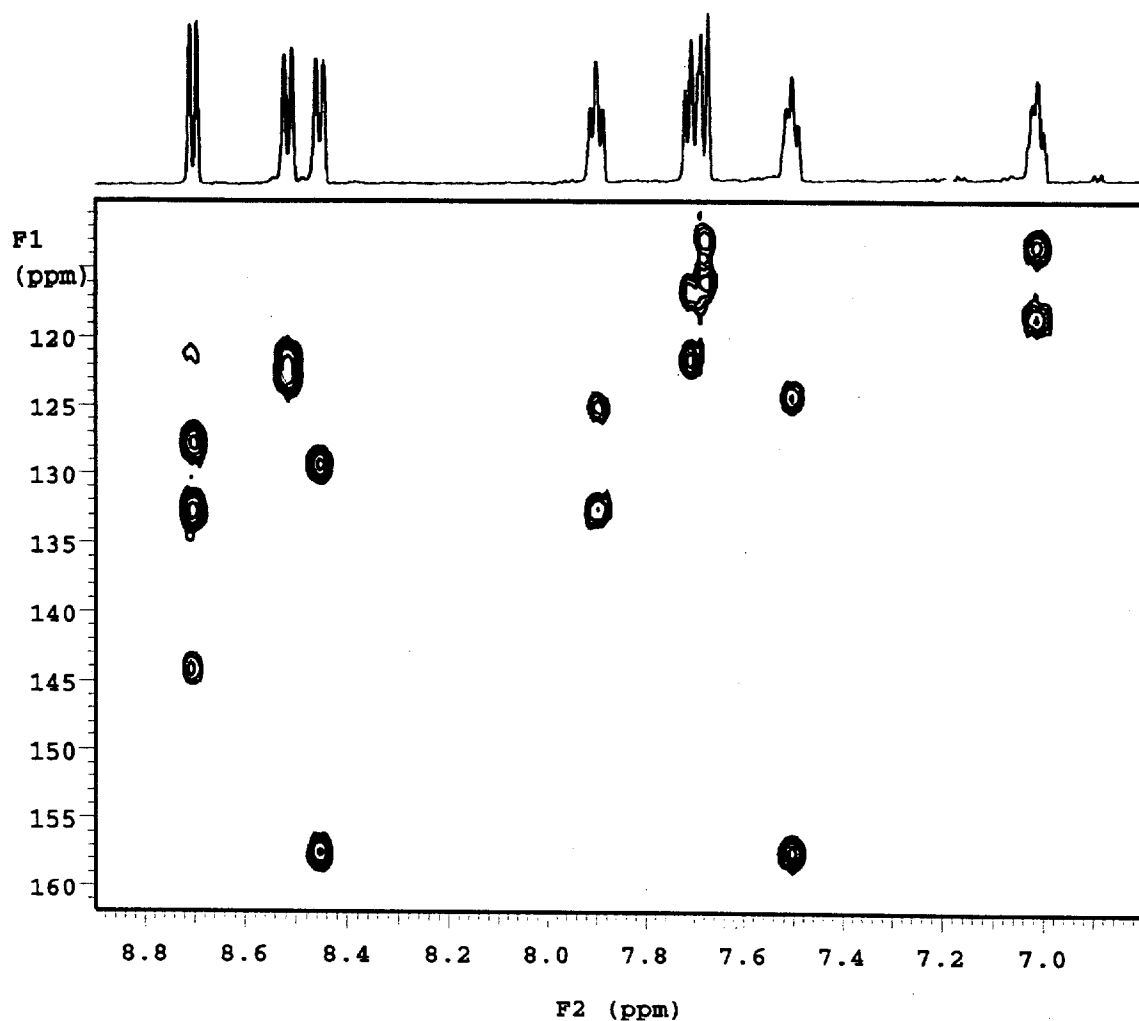


FIGURE 2: Expanded aromatic region of the 10 Hz optimized GHMBC spectrum of ~ 0.25 μmol (~ 0.1 mg) of **1** in 30 μL $\text{DMSO-}d_6$. Data were acquired as 4096 x 48 hypercomplex files in F_1 , with 384 transients per t_1 increment. Data were linear predicted to 4096 x 512 points. Data were then sinebell multiplied in t_2 and cosine multiplied in t_1 prior to transformation. Total acquisition time was 15 hrs and 4 min, illustrating the sensitivity and resolution available to the SMIDG probe at the submicromole level.