

Design and Implementation of a Digital Receiver Based Tune Monitor, JENNY CHEN, K.T. HSU, C.H. KUO, K.K. LIN, K.T. PAN, SRRC - A digital receiver based tune measurement system is implemented recently. Novel digital receiver plays a central role for tune measurement. The output of digital receiver is further Fourier analysis by digital signal processor. Design considerations of this tune monitor such as, speed, resolution, dynamic range, control interface will discuss in this report. Comparing with traditional spectrum analyzer, spectrum analyzer with digital IF, modern vector signal analyzer, or tune measurement based upon turn-by-turn beam position are also included. Preliminary results will present on the conference.