

## **Exhibit 2**

The purpose of this experiment is to characterize the indoor propagation channel at 1.85 to 1.99 GHz with a bandwidth of 30 MHz. The equipment used will be low power experimental transmitters and experimental receivers. The power of each transmitter will not exceed 1 watt. The modulation of the transmitted signal will be Binary Phase Shift Keying (BPSK). The theory of operation is similar to that of a sliding correlator developed by D. Cox in 1972 [1].

The experimental results will provide channel characteristics needed for (1) the optimal design of wide-band indoor wireless personal communication systems, and (2) the validation of propagation prediction tools.

## **Reference**

- [1] D. C. Cox, "Delay doppler characteristics of multipath at 910 MHz in a suburban radio environment," IEEE Trans. Antenna Propagat., Sept. 1972, pp. 625-635.