

Experiment Description:

Downlink only test from elevated transmitter to ground level receiver. The experiment will be conducted outdoors within the confines of Drexel University's campus. Transmitter will be placed on top of Lebow Business Building of Drexel University, at approximate height of 100 feet, using a 20 dB standard gain horn antenna. Receiver will use omni-directional antenna. A maximum transmit power of 1 kW EIRP will be used for transmission of linear chirp pulses centered at 5.5 GHz with a maximum of 38 MHz of bandwidth. Given the transmit power selected, the frequencies selected, the use of a directional transmit antenna, and the geographic location of the nodes with respect to Drexel University's campus, we have taken measures to avoid interference to licensed users.