

The project is aim to measure the propagation characteristics of 140-160 GHz mmWave signal with 4 GHz RF bandwidth. We will use the channel sounder we built to transmit 140-160 GHz signals at power level of 10 dBm with 30 dB horn antennas. We plan to conduct indoor and outdoor measurements at NYU campus. The result of the measurements will contribute to understanding mmWave propagation, 5G channel models, and the development of 5G wireless communication.