

## DESCRIPTION OF EXPERIMENT

Frequency: new ITFS/MMDS band (eg: 2.5GHz - 2.7GHz.)

Modulation: QPSK thru QAM64, both for uplink and downlink.

Technology: 802.16e (mobile WiMAX) with studies on 802.16m -- specifically repeater technology within the coverage area.

### Scope:

Intel needs to expand its capability of field testing Mobile WiMAX and its new components/products being introduced later this year and in 2009. These are engineering tests in the design phase to ensure proper field noise levels coincide with predictions. These are impacted by mobility specifically during hand-over conditions. Furthermore, field testing will be taking place between WiMAX and devices operating in the ISM band for adjacent band interference of both. Intel is working with IEEE in developing 802.16m which creates a new OTA frame, FDD, and a new concept of 'WiMAX repeater'.