

1. Explain why it is necessary to have a frequency in the 1240-1350 MHz range for a direction finder.

The sensor has a single test frequency of 1283.75 MHz. This is why we requested such a specific frequency. The signal generator will be transmitting the signal for the sensor to pick up under -30dBm.

2. User must describe antenna type and its gain.

This will be an omni-directional monopole antenna with 0 dB gain.

3. Why the requirement for a 5 kilometer radius?

The requirement can be reduced to 1 km. The goal was to cover the Boeing Test Area and Facility, and with 1 km at the requested Lat/Long we will be able to cover both.