

Raytheon SAS Request New OET License File Number

Purpose of License:

The purpose of the license is to conduct short range over-the-air testing and demonstration of line-of-sight data links at Raytheon Test Facility in Marlboro, MA

Test Summary:

Raytheon will radiate duplex signals in the Ku, C, and S Band from a motion table located at the Marlborough facility lat/long NL42-20-34.8 WL071-29-35.7 to a remote hillside around 55 meters south/west lat/long NL42-20-34.29 WL071-29-37.65. The antennas at the remote hillside will be mounted on poles 7 meters high. The testing will include short range over-the-air demonstration of line-of-sight data links using (4) Ku band horn antennas, (2) C Band Sector Antennas, and (2) S Band Omni Antennas.

Antenna: Ku Band

Is a directional antenna used?

Yes – Active Electronically Scanned Array Antenna

If yes, give the following info:

Width of beam in degrees at the half-power point:

4.55 degrees Azimuth; 3.66 degrees Elevation

Orientation of horn antenna:

0 to 30 degrees tilted off horizon

Antenna: C Band

Is a directional antenna used?

No

Antenna: S Band

Is a directional antenna used?

No