Sent: Friday, February 18, 2005 2:54 PM

To: mikev@wll.com

Subject: RE: Big old antenna

Mike,

Attached are the guidelines for testing a 10 foot dish with as Part 15, spread spectrum device.

Remember we are concerned about band edge compliance particularly in the 2.4 GHz band at 2.4835 MHz in the restricted band. If the device is a 2.4 GHz device, you will have to use the delta method (posted on our KDB) to determine the level of the emission at the band edge.

We are also concerned with the defacto EIRP limits in the 900 MHz and 2.4 GHz bands listed in the rules. Be careful with those.

For EMC/EMI Measurements:

Place the 10' parabolic antenna on a 10 meter OATS and bore-site the parabolic antenna to the receive antenna. To ensure measuring a maximized signal, with the transmission system transmitting rotate the EUT (left and right) slightly while monitoring the transmission - this is to ensure measuring in the center of the transmission beam. Then, with the transmission system still transmitting, raise and lower the receive antenna 1 to 4 meters to ensure that a maximized signal is being measured. Note: both horizontal and vertical polarities of the receiver antenna should be used to ensure a maximized signal will be measured. You will have to perform this for the fundamental to measure band edge compliance and for all the restricted band emissions. A look at the conducted emissions from this device should give you some guidance on where to look for spurious emissions from the system.

During all measurements, the measurement equipment requirements defined in Part 15, section 15.35 Measurement detector functions and bandwidths should be met.

These 10 meter measurements will then have to be extrapolated to 3 meters for comparison to the limits.

Let me know if we can be of further help.

Rich