

July 26, 2012

Attn: Application Examiner, Reviewing Engineer

The maximum TX output power of the Spectrum 700 Path1/700 Path 2 SRAU from the EUT antenna port for the 700 path 1 band is 21.10 dBm. The maximum gain antenna that could be for use with the EUT has a gain of 13.67 dBi.

From the following equations:

Peak Output of EUT at antenna Connector (dBm) + Gain of Antenna (dBd) = Peak TX Power (dBm) ERP

 $10*Log_{10}$ (Peak TX Power * E³ Watts) = Peak TX Power (dBm) ERP

21.10 dBm + 13.67 dBi = 34.77 dBm EIRP 34.77 dBm EIRP = 3.0 Watts EIRP To convert to EIRP use the relation: EIRP = ERP X 1.64. (2.55 EIRP = 1.56 ERP) To convert to dBi to dBd use the relation: dBi = dBd + 2.14. (7.14 dBi = 5.0 dBd)

Power Density = EIRP(mW)/ $(4^{*}\pi^{*}r^{2})$ 0.1491 mW/cm² = (128.8)(23.28)/ $(4^{*}\pi^{*}40^{2})$

Per OET 65: Maximum Permissible Exposure is Freq. (MHz)/1500 = MPE mW/cm² 737.0 MHz/1500= 0.4913 mW/cm²

In addition, the following statement is in our installation manual: To comply with Maximum Permissible Exposure (MPE) requirements, antennas must be installed to provide at least 40 centimeters of separation from all persons per FCC 47CFR, Part 2.1091 and IC RSS-102, Section 2.5.2.

Sincerely,

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