



November 13, 2013

Attn: Director of Certification

Dear Sir or Madam:

The following is the SAR calculation for the FlexWave™ Prism – HDM 1900 MIMO, using the system's maximum RF emission. The calculation is based on FCC 47CFR Part 2 and OET 65.

Per OET 65:

Maximum Permissible Exposure is 1.0 mW/cm² over 30 minutes.

1500 MHz - 100,000 MHz

The following equations determine the distance from the antenna that the power density is ≤ 1.0 mW/cm².

To convert to EIRP use the relation: EIRP = ERP \times 1.64

+47.05 dBm Transmitter Total Power (Max)

15.1 dBi Antenna Gain (Max)

47.05 dBm + 15.1 dBi = +62.15 dBm EIRP

+62.15 dBm EIRP = 1640 Watts EIRP

1640 Watts EIRP = 1640×10^3 mWatts EIRP

$1.0 \text{ mW/cm}^2 = 1640 \times 10^3 \text{ mW} / (4 \times \pi \times r^2)$

$r = \text{SQR}(1640 \times 10^3 / 4 \times \pi \times 1.0)$

$r = 361.35 \text{ cm}$ or 3.61 Meters

In addition, the following statement will be added to our installation/operation manual:

To comply with Maximum Permissible Exposure (MPE) requirements, the maximum composite output from the antenna cannot exceed 1640 Watts EIRP and the antenna must be permanently installed in a fixed location that provides at least 6 meters (20 feet) of separation from all persons.

Sincerely,

A handwritten signature in black ink, appearing to read 'Joshua J. Wittman', is written over a horizontal line.

Joshua J. Wittman

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