EXHIBIT 12. MPE CALCULATIONS

The following MPE calculations are based on a 1.8 centimeter inverted-F printed circuit board trace antenna, with a measured field strength of 114 dBµV/m, at 3 meters, and conducted RF power of +18.49 dBm as presented to the antenna. The calculated gain of this antenna, based on the field strength measurements is 0.28 dBi.

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 18.49 (dBm) Maximum peak output power at antenna input terminal: 70.632 (mW) Antenna gain(typical): 0.28 (dBi) Maximum antenna gain: 1.067 (numeric) Prediction distance: 20 (cm) 2400 (MHz) Prediction frequency: MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

> Power density at prediction frequency: 0.014988 (mW/cm²)

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