

## EXHIBIT 14. MPE CALCULATIONS

The following MPE calculations are based on a circuit board strip antenna, with a measured ERP of 110.4 dB $\mu$ V/m, at 3 meters, and conducted RF power of +11.18 dBm as presented to the antenna. The calculated gain of this antenna, based on the ERP measurements is 3.99 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: 11.18 (dBm)

Maximum peak output power at antenna input terminal: 13.122 (mW)

Antenna gain(typical): 3.99 (dBi)

Maximum antenna gain: 2.506 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 900 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.6 (mW/cm<sup>2</sup>)

Power density at prediction frequency: 0.006542 (mW/cm<sup>2</sup>)

Maximum allowable antenna gain: 23.6 (dBi)

Margin of Compliance at 20 cm = 19.6 dB

Prepared For: Honeywell	Model #: TH5320R1002	Prepared by: LS Research, LLC
EUT: Epsilon Wall Module (EWM-P)	IC #: 573R-TH5320R01	Template: 15.247 FHSS 900 TX (V2 8-17-06)
Report #: 308247 TX	FCC ID #: HS9-TH5320R01	Page 34 of 35