MPE calculation

Model number: SWING
FCC ID 2AG6IWINGX

According to the RSS-102, issue 5 Standard and to FCC §15.247(b)(4) and §1.1307(b)(1), systems operation under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

MPE Prediction

Frequency range (MHz)	*Power density (mW/cm²)*
400 – 1500	f/1500
1500 - 100000	1 mW/cm²

Equation for calculation

$$S = P*G / (4\pi R^2)$$

Where: S – Power density
P – Power input to antenna
G – Antenna gain relative to isotropic radiator
R – Distance to antenna

Maximum peak output power at antenna terminal: +8.1 dBm (6.46 mW)
Antenna gain: 1.4 dBi
Prediction distance: 20cm
MPE limit for General Population/Uncontrolled Exposure: 1 mW/cm²

Calculation's results:

Power density at 20cm distance**: 0.0018 mW/cm²**

Best Regards Jmad Hijje