



Parrot Zik 2.0 MPE calculation

Model number: Parrot Zik 2.0

FCC ID RKXZIK2.0

IC: 5119A-ZIK2.0

According 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/cm ²)
400 - 1500	f/2000
1500 - 100000	1 mW/cm ²

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: **+5.22 dBm (3.3 mW)**

Antenna gain: **-2.35 dBi**

Prediction distance: **20cm**

MPE limit for General Population/Uncontrolled Exposure: **1 mW/cm²**

Final results:

MPE safe distance: **0.39 cm**

Power density at 20cm distance: **0.0004 mW/cm²**

Imad Hjije

Best Regards