



WiBear11n-SF2 MPE calculation

Model number: AN00J93174

FCC ID PV7-WIBEAR11N-SF2

IC: 7738A-WB11NSF2

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: +23.0 dBm (199.5 mW)

Antenna gain: 3.0 dBi

Prediction distance: 20cm

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

Intermediate results:

MPE safe distance: **5.63 cm**

Power density at 20cm distance at 2.5GHz: **0.0792 mW/cm²**

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Best Regards