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FCC-ID : RKXOKIA

Maximum Permissible Exposure calculation

Dear Mr. Dollitz,

please find here our Maximum Permissible Exposure calculations for the Parrot DIA.

Best Regards

i.A.



Carsten Steinröder



Maximum Permissible Exposure

(as specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure)

<i>Frequency range (MHz)</i>	<i>Power density (mW/cm²)</i>
300 – 1,500	f/1500
1,500 – 100,000	1.0

Calculations 2400-2483.5 MHz band

Maximum peak output power at antenna input terminal for WiFi module:

0.081 W

(see Grant of FCC ID: EW4DWMW014)

Prediction distance **R**: 20 cm
Prediction frequency: 2.4 GHz
Prediction Antenna Gain **G**: 1.18 dBi (WiFi Antenna)

MPE limit **S**: 1 mW/cm²

Equation OET bulletin 65, page 18, edition 97-01: $S = P \cdot G / (4\pi R^2)$

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 centre of radiation of the antenna

Maximum permissible power density: **0.0211 mW/cm²**

=> Delta to MPE Limit: **0.9789 mW/cm²**