

MPE Calculation

FCC ID: XUJMD4WIFI

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|---|-------------------------|
| RF Exposure Requirements: | 47CFR§1.1307(b) |
| RF Radiation Exposure Limits: | 47CFR§1.1310 |
| RF Radiation Exposure Guidelines: | 47CFR§2.1091 |
| EUT Frequency Band: | 2412 – 2462MHz |
| Limits for General Population/Uncontrolled Exposure in the band of: | 1500 – 100000MHz |
| Power Density Limit: | 1.0mW/cm ² ; |

Equation: $S = PG/4\pi R^2$

Where, S=Power Density

P=Power Input to Antenna

G=Antenna Gain

R=distance to the center of radiated antenna

Low Channel (2412MHz):

Power=18.66mW, Antenna Gain=2dBi(1.58 Numeric), Prediction distance 20cm

$S = (18.66 * 1.58) / (4 * 3.14 * 20^2) = 0.00587 \text{ mW/cm}^2$

Result

The above result had shown that device complied with 1.0mW/cm² Power density requirement for distance of 20 cm.

Completed By: Francis

Data: 2011-08-11