

MPE Evaluation

Applicant: JB-Tag Solutions BV

FCC ID: 2BK73-TAGLAMP

Model: JB-Tag Light spots

MPE Evaluation

RF Exposure Compliance Requirement

Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 and FCC 1.1310 Radio frequency radiation exposure limits for General Population/Uncontrolled Exposure

EUT RF Exposure

$$P_d = PG / (4 \pi R^2)$$

P_d = power density in mW/cm²

P = output power to antenna in mW

G = gain of antenna in linear scale

$$\pi = 3.14$$

R = distance between observation point and center of the radiator in cm

The Max Output Power is 2.299 dBm in 2.402GHz;

Antenna gain: 3.44 dBi, gain of antenna in linear scale: 2.21

$R=20\text{cm}$

$$P_d = PG / (4 \pi R^2) = 0.0007 \text{ mW/cm}^2 < 1 (\text{limits}) \text{ mW/cm}^2$$

The Max Output Power is -28.45 dBm in 13.56MHz

Antenna gain: 0 dBi, gain of antenna in linear scale: 1.0

$R=20\text{cm}$

$$P_d = PG / (4 \pi R^2) = 0.00000143 \text{ mW/cm}^2 < 1 (\text{limits}) \text{ mW/cm}^2$$

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