

MPE Evaluation

Applicant: TECHLAND Culture & Technology Ltd.

FCC ID: 2BGMV-MUSIC-STAR

Model: MUSIC STAR

MPE Evaluation

RF Exposure Compliance Requirement

Standard Requirement

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

EUT RF Exposure

$$P_d = \frac{P}{4 \pi R^2}$$

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

Bluetooth(BLE mode)

The Max Output Power is -1.13 dBm in 2.402GHz;

Antenna gain: 3.0dBi, gain of antenna in linear scale: 1.995

$R=20\text{cm}$

$$P_d = \frac{P}{(4 \pi R^2)} = 0.00031 \text{ mW/cm}^2 < 1 \text{ (limits) mW/cm}^2$$

Bluetooth(classic mode)

The Max Output Power is 1.08 dBm in 2.402GHz;

Antenna gain: 3.0dBi, gain of antenna in linear scale: 1.995

$R=20\text{cm}$

$$P_d = \frac{P}{(4 \pi R^2)} = 0.00051 \text{ mW/cm}^2 < 1 \text{ (limits) mW/cm}^2$$

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