

INTERTEK TESTING SERVICE

For Maximum Permissible Exposure (MPE) evaluation of the unit, the maximum power density at 20 cm from this transmitter shall be less than the General Population / Uncontrolled MPE limit in OET Bulletin 65 and meet the requirement listed in KDB447498.

1) For the Bluetooth portion of the unit, the measured powers among all the measured channels were within its production tolerance. The antenna gain is 2 dBi = 1.58 (num gain) and its maximum source-based time-averaging duty factor is 100%. From these data and its operating configuration, the exposed power density at a distance (R) of 20cm from the center of radiation of the antenna can be calculated according to OET Bulletin 65 as follow:

EUT(FCC ID: AL8-E60E) :

The EIRP radiated power
= 4 dBm
= 2.51 mW

The radiated (EIRP) source-based time-averaging output power
= (2.51 * 1) mW
= 2.51 mW

The power density at 20cm
= $2.51 / 4\pi R^2$
= 0.00049 mW cm⁻²

USB dongle (FCC ID: AL8-BT600):

The EIRP radiated power=
maximum conducted output power(10dBm)+antenna gain(-4.12dBi)
= 5.88 dBm
= 3.87 mW

The radiated (EIRP) source-based time-averaging output power
= (3.87 * 1) mW
= 3.87 mW

The power density at 20cm
= $3.87 / 4\pi R^2$
= 0.00071 mW cm⁻²

“ FCC RF Radiation Exposure Statement

Caution: To maintain compliance with the FCC’s RF exposure guidelines, place the Internet Music System at least 20cm from nearby persons.”

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In addition, for this product with multiple transmitter and antenna (Bluetooth (PIKA), Bluetooth(USB Dongle) and Qi) the requirement of Simultaneous Transmission evaluation has also been considered and has complied with the following conditions of the worst case;

$$MPE1/Limit1 + MPE2/Limit2 \leq 1$$

Thus,

$$0.00049/1 + 0.00071/1 = 0.012$$

PIKA BT + USB Dongle

It is concluded that no Simultaneous Transmission evaluation is required.