

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Bluetooth FM Transmitter
Model Name	HK203, HK201, HK202, HK205, HK206, HK207, HK208, HK105, HK106, HK109D, HK012D, CCC-8800-SL, DAB 010, DAB 011, DAB 012, DAB 013, DAB 014, DAB 005, DAB 105, DAB 006, DAB 106, DAB 007, DAB 107, DAB 008, DAB 108, DAB 009, DAB 109, BT010, HK010, HK006, HK007, HK008, HK009, HK100, HK011, HK012, BT008, BT009, BT001, BTT010, AF-001, AF-002, T20, T10, T20CS, T20C, T20J, T20S, T10J, TX60, TX70, TX80,TX90, Blufree-001, Blufree-002, Blufree-003, Blufree-004
FCC ID	2AR6E-HK203

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot \left[\sqrt{f(GHz)}\right] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

P_t=0.785dBm=1.20mW

The value of the Maximum output power Pt is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(1.20mW /5mm) .[√2.441(GHz)]=0.37<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

§15.239

FM Pt= -48.22dBm=0.000015mW

The value of the Maximum output power Pt is referred to the test report of the CFR47 For frequencies below 100 MHz and test separation distances ≤ 50 mm, the power threshold determined by the following:

P_{max} =0.5 * 474 * [1+log(100/f)] mW, where f is MHz

For 88.1MHz, Pmax=250mW. Pt< Pmax.

For 107.9MHz, P = 3 x 5 / 0.1079^0.5 = 45.7 mW Pmax=45.7mW. Pt< Pmax. Simultaneous transmission between Bluetooth and FM transmitter: [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [$\sqrt{f(GHz)/x}$] W/kg, for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR. SAR=(0.37+0. 000015)/7.5=0.049W/kg<1.6W/kg

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