

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Wireless hands free car kit
Model Name	SBTFM4
FCC ID	IKQSBTFM4

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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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+=1.097dBm=1.29mW

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

The result for RF exposure evaluation SAR=(1.29 mW / 5 mm). [$\sqrt{2.480 (\text{GHz})}$]=0.41<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

§15.239

FM Pt= -51.33dBm=0.0000074mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 For frequencies below 100 MHz and test separation distances \leq 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, P_{max}=250mW. Pt< P_{max}.

For 107.9MHz, $P = 3 \times 5 / 0.1079^{0.5} = 45.7 \text{ mW}$ $P_{max} = 45.7 \text{mW}$. Pt< P_{max} .

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=(0.41+0. 0000074)/7.5=0.055W/kg<1.6W/kg

4. CONCLUSION

The SAR evaluation is not required.

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