

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

	Product Description	Bluetooth FM Transmitter	YC.
) . 	Model Name	BH163B,BH163C,BH163D,BH163E	133
τ.	FCC ID	2AIL4-BH163B	Attestall

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

According to the follow transmitter output power (P_t) formula : P_t = ($E \times d$) 2 / ($30 \times g_t$) P_t =transmitter output power in watts g_t =numeric gain of the transmitting antenna (unitess) E=electric field strength in V/m d=measurement distance in meters (m)

BT $P_t = -0.690 dBm = 0.85 mW$

The result for RF exposure evaluation SAR=(0.85mW/5mm). [$\sqrt{2.48}(\text{GHz})$]= 0.27<3.0 for 1-g SAR

FM Pt=0.0000091mW
The result for RF exposure evaluation
SAR=(0.0000091mW /5mm) .[√0.1079(GHz)]= 0.00000060<3.0 for 1-g SAR

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=(0.27+0.00000060)/7.5=0.036W/kg<1.6W/kg

4. CONCLUSION

The SAR evaluation is not required.

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