



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Bluetooth speaker
Test Model	HB688
FCC ID	2ASCI-HB688

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

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:

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

Where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

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

3. CALCULATION

BLE:

$Pt=2.201\text{dBm}=1.66\text{mW}$

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 $SAR=(1.66\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.51 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BR/EDR:

$Pt=2.682\text{dBm}=1.85\text{mW}$

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 $SAR=(1.85\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.57 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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