

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Black Shark BS-T1 true wireless bluetooth gaming earbuds
Model Name	BS-T1
Series Model	BS-T2, BS-T3, BS-T4, BS-T5, BS-T6, BS-T7, BS-T8, BS-T9, BS-T10, BS-T11, BS-T12, BS-T13, BS-T14, BS-T15, BS-T16, BS-T17, BS-T18, BS-T19, BS-T20, BS-T21, BS-T22, BS-T23, BS-T24, BS-T25, BS-T26, BS-T27, BS-T28
FCC ID	2A2JO-BST1

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 1M

$$P_t = 1.456 \text{ dBm} = 1.398 \text{ mW}$$

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 = $(1.398 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402 \text{ GHz}}] = 0.433 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE 2M

$$P_t = 1.454 \text{ dBm} = 1.397 \text{ mW}$$

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 = $(1.397 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402 \text{ GHz}}] = 0.433 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

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BR-EDR

$P_t=2.639\text{dBm}=1.836\text{mW}$

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 $\text{SAR}=(1.836\text{mW}/5\text{mm}) \cdot [\sqrt{2.402\text{GHz}}]=0.569 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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