



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Baseus True Wireless Earphones
Model Name	Baseus Bowie WX5
FCC ID	2A482-BSWX5

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 ≤ 50 mm are determined by:

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

BR/EDR Left:

$$P_t = 1.740\text{dBm} = 1.49\text{mW}$$

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 $\text{SAR} = (1.49\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 0.47 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BR/EDR Right:

$$P_t = 2.329\text{dBm} = 1.71\text{mW}$$

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 $\text{SAR} = (1.71\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 0.54 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE Left 1M:

$$P_t = 1.489\text{dBm} = 1.41\text{mW}$$

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 $\text{SAR} = (1.41\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 0.44 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE Left 2M:

$$P_t = 1.461\text{dBm} = 1.39\text{mW}$$

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 $\text{SAR} = (1.39\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 0.43 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

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BLE Right 1M:

$P_t = 2.287\text{dBm} = 1.69\text{mW}$

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 $\text{SAR} = (1.69\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 0.53 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE Right 2M:

$P_t = 2.275\text{dBm} = 1.68\text{mW}$

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 $\text{SAR} = (1.68\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 0.52 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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