



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Motorcycle Bluetooth Helmet Intercom
Model Name	V7
FCC ID	2A9G2-V7

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

$P_t=6.699\text{dBm}=4.68\text{mW}$

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 $\text{SAR}=(4.68\text{mW}/5\text{mm}) \cdot [\sqrt{2.441\text{GHz}}]=1.46<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE 1M

$P_t=4.970\text{dBm}=3.14\text{mW}$

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 $\text{SAR}=(3.14\text{mW}/5\text{mm}) \cdot [\sqrt{2.440\text{GHz}}]=0.98<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE 2M

$P_t=5.060\text{dBm}=3.21\text{mW}$

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 $\text{SAR}=(3.21\text{mW}/5\text{mm}) \cdot [\sqrt{2.440\text{GHz}}]=1.00<3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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