

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Bluetooth TWS headphones
Model Name	EP-TW3
Series Model	EP-TW4, EP-TW5, EP-TW6, EP-TW7, EP-TW8, EP-TW9, EP-TW10, EP-TW11, EP-M6TW
FCC ID	2ABMR-EP-TW3

### 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:

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

Left:

$$P_t = 1.296\text{dBm} = 1.35\text{mW}$$

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  $\text{SAR} = (1.35\text{mW} / 5\text{mm}) \cdot [\sqrt{2.441\text{GHz}}] = 0.42 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

Right:

$$P_t = 0.557\text{dBm} = 1.14\text{mW}$$

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  $\text{SAR} = (1.14\text{mW} / 5\text{mm}) \cdot [\sqrt{2.440\text{GHz}}] = 0.35 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### 4. CONCLUSION

The SAR evaluation is not required.