

RF exposure information

FCC ID: VHFBLUEANT-AIR

Product name: Bluetooth earphone

Models names: PUMP AIR

1. Introduction:

This product is Bluetooth earphone with Bluetooth (2402~2480MHz).

2. Output power considerations:

Worst case output power: 1.42dBm = 1.387mW (at 2480MHz for Bluetooth mode)

3. Compliance criteria:

According to 447498 D01 General RF Exposure Guidance v05 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:

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

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

Calculate:

$$(1.387/5) \cdot \sqrt{2.480} = 0.437 < 3 \text{ for 1g SAR}$$

Then SAR evaluation is not required.