

## INTERTEK TESTING SERVICES

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### RF Exposure

The Equipment under Test (EUT) is an Wireless Portable Speaker. It is powered by D.C. 3.7V from internal rechargeable battery or charged by USB Cable through PC USB Port or compatible charger. For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 2.49dBi.

The nominal conducted output power specified: -2dBm  $\pm$ 4dB.

Test conducted output power: -5.07dBm ~1.37dBm

Modulation Type: GFSK,  $\pi/4$  -DQPSK and 8-DPSK.

According to the KDB 447498:

The maximum conducted output power specified is 2dBm = 1.58mW

The source- based time-averaging conducted output power  
= 1.58 \* Duty Cycle mW= 1.32 mW

The SAR Exclusion Threshold Level:

= 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)  
= 3.0 \* 5 / sqrt (2.480) mW  
= 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

### Transmitter Duty Cycle Calculation

Based on the Bluetooth Specification (BT version: 3.0), transmitter ON time is independent of packet type (DH1, DH3 and DH5) For one period for a pseudo-random hopping through all 79 RF channels, for DH5:

One hopset consists of 5 TX slot and 1 RX slot.

Duty factor = 5 / 6 = 0.833

This requirement is according to KDB 865664 D02