

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a COLOUD MINI SPEAKER model Bang BT. It is powered by DC 3.7V. For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

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

The nominal conducted output power specified: 2.0dBm $\pm$ 3dB.

The maximum and minimum conducted power tested are 3.4dBm and 2.2dBm respectively which are within the specified power.

According to the KDB 447498:

The maximum conducted output power specified is 5.0dBm = 3.2mW

The source-based time-averaging conducted output power

= 3.2 * Duty Cycle mW (where Duty cycle < 100%) < 3.2mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 * 5 / sqrt(2.480) mW

= 9.5 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.