

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Lenovo 500 2.0 Bluetooth Speaker model BT500. It is powered by DC 3.7V. For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: -1.0dBm $\pm$ 3dB.

The nominal radiated output power(EIRP) specified: -4.0dBm ~ 2.0dBm

Maximum tested power is 0.21dBm for BLE mode with GFSK modulation;

Minimum tested power is -2.54dBm for EDR mode with 8DPSK modulation;

According to the KDB 447498:

The maximum conducted output power specified is 2.0dBm = 1.6mW

The source- based time-averaging conducted output power

= 1.6* Duty Cycle mW<= 1.6mW (Duty Cycle <= 100%)

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.