

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Daisy/Donald operating at 2.4G Band. The EUT is powered by DC 5.9V by adaptor. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 1.2dBi Max

The normal radiated output power (e.i.r.p) is: 3.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 1.8dBm (tolerance: +/- 3dB).

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 101.0dBμV/m at 3m in the frequency 2405MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 5.77dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 99.1dBμV/m at 3m in the frequency 2475MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 3.87dBm

which is within the production variation.

The maximum conducted output average power specified is 4.8dBm = 3.020mW

The source- based time-averaging conducted output power = 3.020 mW

The SAR Exclusion Threshold Level:

= $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

= $3.0 \cdot 5 / \sqrt{2.475}$ 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.