

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a CSM Faiz Gear & Faiz Axel ver.2 operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 5.6dBi.

The normal radiated output power (e.i.r.p) is: -5.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -10.6dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V6:

The Maximum peak radiated emission for the EUT is 90.4dB μ V/m at 3m in the frequency 2407MHz

The EIRP = [(FS*D) ^2 / 30] mW = -4.83dBm
which is within the production variation.

The maximum conducted output power specified is -7.6dBm= 0.174mW

The source- based time-averaging conducted output power
=0.174* Duty cycle mW <0.174 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.407) mW

= 9.67 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.