

INTERTEK TESTING SERVICES

RF Exposure

The Equipment Under Test (EUT) is a STRENGTH SMART HANDLE operating at 433.9MHz. The EUT is powered by DC 3V button battery. For more detailed features description, please refer to the user's manual.

Antenna Type: integral antennas.

Antenna Gain: 0dBi.

Modulation Type: FSK.

The nominal conducted output power specified: -25dBm (+/-2dB)

The nominal radiated output power (e.i.r.p) specified: -25dBm (Tolerance: +/-2dB).

According to the KDB 447498 D04 v01:

The peak radiated emission for the EUT is 70.0dBμV/m at 3m in the frequency 433.95MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -25.23dBm

which is within the production variation.

The maximum conducted output power specified is -23.0dBm = 0.005 mW

The source-based time-averaging conducted output power = 0.005 mW

1-mW Test Exemption:

Since the source-based time-averaging conducted output power is well below 1-mW Test Exemption, per KDB 447498 D04 v01 and §1.1307 (b) (3) (i) (A), the EUT is considered to comply with SAR requirement without testing and no evaluation is required.