

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a Control unit for VXR Ant model: 406-3346 operating at 2.4GHz band. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: 4.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 4.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 100.1dB μ V/m at 3m in the frequency 2401.5MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 4.87dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 96.8dB μ V/m at 3m in the frequency 2433.5MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 1.57dBm

which is within the production variation.

The maximum conducted output power specified is 7.0dBm = 5.0mW

The source- based time-averaging conducted output power

= 5.0* Duty Cycle mW < 5.0 mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.4335) mW

= 9.6 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.