

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a VEX IQ Smart Radio model: 228-3530. It is powered by host unit. For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Max Antenna Gain: 0dBi.

The nominal conducted output power specified: -4.0dBm $\pm$ 3dB.

The nominal radiated output power(e.i.r.p.): -7.0dBm ~ -1.0dBm

Modulation Type: GFSK.

The Maximum and Minimum tested power are within the specified e.i.r.p.

According to the KDB 447498:

The maximum conducted output power specified is -1.0dBm = 0.8mW

The source- based time-averaging conducted output power

= 0.8* Duty Cycle mW= 0.8mW

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.

Transmitter Duty Cycle Calculation

The test signal of the EUT is Continuous emission, so the Duty Cycle is 100%.