

## RF Exposure

The equipment under test (EUT) is a Wireless Receiver with 2.4GHz wireless transmitter function operating in 2403-2480MHz. The EUT is powered by DC 5V. For more detail information pls. refer to the user manual.

### 2.4GHz wireless transmitter function:

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 2.24dBi Max

The nominal conducted output power specified: -9.24dBm (+/-2dB)

The nominal radiated output power (e.i.r.p) specified: -7dBm (+/-2dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 88.7dB $\mu$ V/m at 3m in the frequency 2403MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -6.53dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 87.4dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = -7.83dBm  
which is within the production variation.

The maximum conducted output power specified is -7.24 dBm = 0.19 mW

The source-based time-averaging conducted output power

= 0.19 \* Duty factor mW (where Duty Factor  $\leq 1$ )

= 0.19 mW

The SAR Exclusion Threshold Level:

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

=  $3.0 * 5 / \sqrt{2.480}$  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.