

## INTERTEK TESTING SERVICES

---

### RF Exposure

The equipment under test (EUT) is a 2XL Robot with Bluetooth 5.0 BLE function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 2.7dBi Max

Bluetooth Version: 5.0 BLE (Single Mode)

The normal radiated output peak power (e.i.r.p) is: 3.0dBm (tolerance: +/- 3dB).

The normal conducted output peak power is 0.3dBm (tolerance: +/- 3dB).

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 101.0dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = 5.77dBm  
which is within the production variation.

The Minimum peak radiated emission for the EUT is 98.4dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS^*D)^2 / 30]$  mW = 3.17dBm  
which is within the production variation.

The maximum conducted output average power specified is 3.3dBm= 2.138mW  
The source- based time-averaging conducted output power  
=2.138 mW

The SAR Exclusion Threshold Level:

= 3.0 \* (min. test separation distance, mm) / sqrt(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.