

## INTERTEK TESTING SERVICES

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### RF exposure analysis report

**FCC ID: G2OEPIC-1**

**Model: EPIC 10 Footswitch Unit**

The equipment under test (EUT) is a Wireless Footswitch of a surgical and therapeutic device. It incorporates a RF transceiver for ZigBee and IEEE 802.15.4. For more detail information pls. refer to the user manual.

Operating Frequencies: 2425 MHz, 2450 MHz, 2475 MHz

Modulation Type: OGFSK

Antenna Type: Integral PCB antenna

Antenna Gain: 5.5 dBi

Maximum rated conducted output power: is 3.5dBm (2.24 mW)

According to the KDB 447498:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$

$$=> (2.24\text{mW}/5\text{mm}) * \text{SQRT}(2.475\text{GHz}) = 0.71 \leq 7.5$$

Since the above calculation is less than 7.5, the product fulfils the RF exposure requirement without SAR testing.

Remark:

1. When the minimum test separation distance is  $< 5\text{mm}$ , a distance of 5mm is applied to determine SAR test exclusion.