

# INTERTEK TESTING SERVICES

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## Analysis Report

The equipment under test (EUT) is a ONN BT ONN BT SELFIE STICK with Bluetooth technology operating in 2402-2480MHz. The EUT is powered by DC 3.7V lithium battery which can be charged by USB port. For more detail information pls. refer to the user manual.

Modulation Type: GFSK  
Bluetooth Version: 4.0 BLE  
Antenna Type: Integral antenna  
Antenna Gain: -3.0 dBi

The nominal conducted output power specified: -27.0dBm (Tolerance: +/-5dB)  
The nominal radiated output power (e.i.r.p) specified: -30dBm (Tolerance: +/-5dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 68.6 dBμV/m at 3m in the frequency 2.480GHz =  $[(FS \cdot D)^2 / 30]$  mW  
= -26.6 dBm which is within the production variation

The minimum radiated emission for the EUT is 68.0 dBμV/m for at 3m in the frequency 2.440GHz =  $[(FS \cdot D)^2 / 30]$  mW  
= -27.2 dBm which is within the production variation

The maximum conducted output power specified is -22dBm = 0.006mW  
The source- based time-averaging conducted output power  
=  $0.006 \cdot \text{Duty cycle mW} \leq 0.006 \text{ mW}$  (Duty Cycle≤100%)

The SAR Exclusion Threshold Level:  
=  $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$   
=  $3.0 \cdot 5 / \sqrt{2.480} \text{ mW}$   
= 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.