

## INTERTEK TESTING SERVICES

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### RF Exposure

The equipment under test (EUT) is a Scale Bluetooth Body Fat SI with Bluetooth 4.1 BLE function operating in 2402-2480MHz. The EUT is powered by DC 3.0V (2 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

Bluetooth Version: BLE 4.1 (single mode)

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -6.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -6.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 91.5 dBμV/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -3.73dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 87.5 dBμV/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -7.73dBm

which is within the production variation.

The maximum conducted output power specified is -3dBm= 0.501mW

The source- based time-averaging conducted output power

=0.501\* Duty cycle mW =0.501mW(Duty cycle =100%)

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.