

# INTERTEK TESTING SERVICES

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## RF Exposure

The Equipment under Test (EUT) is a VerveLoop model SH011 which has Bluetooth function. It is powered by DC 3.8V, 0.3Wh rechargeable battery which can be charged by USB port (DC 5V, 100mA). For more detail information please refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 2dBi.

Modulation Type: GFSK,  $\pi/4$  -DQPSK and 8-DPSK for BT 4.1+EDR Single mode.

The nominal conducted output power specified: 0dBm (Tolerance:  $\pm 3.5$ dB)

The nominal radiated output power specified: 2dBm (Tolerance:  $\pm 3.5$ dB)

The maximum conducted output power for the EUT is 3.14dBm in the frequency 2480MHz of BT 4.1+EDR Single mode which is within the production variation.

The minimum conducted output power for the EUT is -0.13dBm in the frequency 2402MHz of BT 4.1+EDR Single mode which is within the production variation.

According to the KDB 447498:

The maximum conducted output power specified is 3.5dBm = 2.24mW

The source- based time-averaging conducted output power

= 2.24 \* Duty Cycle mW (where Duty cycle  $\leq 1$ )

$\leq 2.24$ 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.