## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a SPMN Bubble RC VHCL operating at 2.4G Band. The EUT can be powered by DC 4.5V (3 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0.17dBi Max

The normal radiated output power (e.i.r.p) is: -8.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -8.17dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 D01 V06 section 4.3:

The Maximum peak radiated emission for the EUT is 87.6dBµV/m at 3m in the frequency 2469MHz

The EIRP =  $[(FS*D)^2 / 30] \text{ mW} = -7.63 \text{dBm}$ 

which is within the production variation.

The Minimum peak radiated emission for the EUT is  $85.6 dB\mu V/m$  at 3m in the frequency 2444MHz

The EIRP =  $[(FS*D)^2 / 30] \text{ mW} = -9.63 \text{dBm}$ 

which is within the production variation.

The maximum conducted output power specified is -5.17dBm= 0.304mW

The source- based time-averaging conducted output power
=0.304mW

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.469) mW
- $= 9.55 \, \text{mW}$

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.

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