

## INTERTEK TESTING SERVICES

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### 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 9.0V (6 x 1.5V AA 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: -5.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -5.17dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 D01 V06 section 4.3:

The Maximum peak radiated emission for the EUT is 90.8dB $\mu$ V/m at 3m in the frequency 2415z

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -4.43dBm  
which is within the production variation.

The Minimum peak radiated emission for the EUT is 88.4dB $\mu$ V/m at 3m in the frequency 2469z

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -6.83dBm  
which is within the production variation.

The maximum conducted output power specified is -2.17dBm = 0.607mW

The source- based time-averaging conducted output power  
=0.607mW

The SAR Exclusion Threshold Level:

=  $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

=  $3.0 \cdot 5 / \sqrt{2.469}$  mW

= 9.55 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.