

## INTERTEK TESTING SERVICES

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### Analysis Report

The equipment under test (EUT) is a DSTR A SMALL WORLD BASE operating at the frequency range 125 KHz. The EUT is powered by DC 4.5V (3 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Antenna Gain: 0dBi

The nominal conducted output power specified: -43.00dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -45.15dBm (+/- 3dB)

Modulation Type: Pulse modulation

According to the KDB 447498:

The worst-case peak radiated emission for the EUT is 51.7dB $\mu$ V/m at 3m in the frequency 0.125MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -43.53dBm

The ERP = EIRP - 2.15 = -45.68 dBm

which is within the production variation.

The maximum conducted output power specified is -40dBm = 0.0001mW

The SAR Exclusion Threshold Level for 0.125MHz when the minimum test separation distance is < 50mm:

=  $474 \cdot [1 + \log(100/f(\text{MHz}))]/2$

= 925.0 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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FCC ID: YRG4055427CF