

# INTERTEK TESTING SERVICES

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## Analysis Report

The equipment under test (EUT) is a portable transmitter for a Walking Talking operating at 27.145 MHz. The EUT is powered by one 9.0V 6F22 size battery. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna with plastic enclosure

Antenna Gain: 0dBi

The nominal conducted output power specified: -38.00dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -40.15dBm (+/- 3dB)

Modulation Type: AM modulation

According to the KDB 447498:

The worst-case peak radiated emission for the EUT is 57.0dB $\mu$ V/m at 3m in the frequency 27.145MHz

The EIRP = [(FS\*D) ^2 / 30] mW = -38.23dBm

The ERP = EIRP – 2.15 = -40.38 dBm

which is within the production variation.

The maximum conducted output power specified is -35dBm = 0.0003mW

The SAR Exclusion Threshold Level for 27.145MHz when the minimum test separation distance is < 50mm:

$$= 474 * [1 + \log(100/f(MHz))] / 2$$

$$= 371.2 \text{ mW}$$

Since the conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

The average factor is not applicable for this device as the transmitted signal is a continuously signal.