

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Wireless Microphone with FM modulation type operating in 192.6MHz. The EUT was powered by DC 3V(1.5V AA*2). For more detail information pls. refer to the user manual.

Modulation Type: FM.

Antenna Type: Integral antenna.

Antenna Gain: 0.56dBi.

The nominal conducted output power specified: 4.80dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: 5.36dBm (+/- 3dB)

According to the KDB 447498:

The measured maximum conducted output power for the EUT is 7.79dBm in the frequency 192.6MHz

The EIRP = 7.79dBm +0.56dBi = 8.35dBm
which is within the production variation.

The maximum conducted output power specified is 7.80dBm = 6.03mW
The source- based time-averaging conducted output power
= 6.03* Duty cycle mW < 6.03 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt(0.1926) mW
= 34.18 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.