

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a 30" 2.0-CHANNEL SOUNDBAR with BT4.2 EDR (single mode) function operating in 2402-2480MHz. The EUT is powered by DC 18V from adapter. For more detail information pls. refer to the user manual.

Bluetooth Version: 4.2 EDR (single mode)

Antenna Type: Integral antenna.

Antenna Gain: 1dBi.

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

Modulation Type: GFSK, p/4-DQPSK and 8-DPSK

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 94.1dB μ V/m at 3m in the frequency 2480MHz

The EIRP = [(FS*D) ^2 / 30] mW = -1.13 dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 90.5 dB μ V/m at 3m in the frequency 2402MHz

The EIRP = [(FS*D) ^2 / 30] mW = -4.73dBm
which is within the production variation.

The maximum conducted output power specified is 0 dBm =1mW

The source- based time-averaging conducted output power
=1* Duty cycle mW < 1 mW(Duty cycle <100%)<1 mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 * 5 / sqrt (2.480) mW

= 9.53 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.

FCC ID: 2AR7X-FWSOUNDBAR