Analysis Report

The equipment under test (EUT) is a LED TV with 2.4GHz wireless transmission function operating in 2409-2413MHz. It is powered by AC100-240V, 50/60Hz. For more detailed features description, please refer to the user's manual.

Modulation Type: GFSK
Antenna Type: Integral antenna (Gain: 0 dBi)
The nominal radiated output power (e.i.r.p) specified: 5dBm (Tolerance: +/-3dB)
The nominal conducted output power specified: 5dBm (Tolerance: +/-3dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 101.1dBμV/m at 3m in the frequency 2.413GHz = [(FS*D) ^2 / 30] mW
= 5.9dBm which is within the production variation

The minimum radiated emission for the EUT is 99.3dBμV/m for at 3m in the frequency 2.409GHz = [(FS*D) ^2 / 30] mW
= 4.1dBm which is within the production variation.

The maximun conducted output power specified is 8dBm = 6.3mW
The source- based time-averaging conducted output power
= 6.3 * Duty cycle mW <= 6.3 mW (Duty Cycle<=100%)

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.5 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.