Analysis Report

The equipment under test (EUT) is a CD+G/MP3+G KARAOKE PLAYER WITH BLUETOOTH with Bluetooth technology operating in 2402-2480MHz. The EUT is powered by DC9V through adapter with 120V/60Hz input. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4-DQPSK and 8-DPSK
Bluetooth Version: 2.1+ EDR
Antenna Type: Integral antenna
Antenna Gain: -0.58 dBi

The nominal conducted output power specified: -3.0dBm (Tolerance: +/-5dB)

The nominal radiated output power specified: -3.58dBm (Tolerance: +/-5dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 92.6 dBμV/m at 3m in the frequency 2.480GHz = [(FS*D) ^2 / 30] mW
= -2.6 dBm which is within the production variation

The minimum radiated emission for the EUT is 92.1 dBμV/m for at 3m in the frequency 2.441GHz = [(FS*D) ^2 / 30] mW
= -3.1 dBm which is within the production variation

The maximun radiated output power specified is 2dBm = 1.58mW
The source- based time-averaging conducted output power
= 1.58 * Duty cycle mW <= 0.26 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
= 9.53 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.