

Analysis Report

The Equipment Under Test (EUT) is an Alarm Clock CD Radio Corsair with Bluetooth. The EUT can accept audio sources including CD, AM/FM Tuner and Bluetooth devices. The Bluetooth module in the EUT is operating in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The audio signal is amplified and fed to the passive internal stereo loudspeakers. The EUT is powered by 120VAC. A 9V battery is for alarm clock memory backup.

2.4GHz Bluetooth portion

Bluetooth 3.0

Antenna Type: Internal, Integral

EIRP range is 0dBm to 5dBm

Antenna gain is 0dBi

Modulation Type: GFSK

Frequency Range: 2402MHz to 2480MHz, 1MHz channel spacing, 79 channels

According to the KDB 447498:

Conducted Power (max) = EIRP – Antenna gain

= 5 dBm – 0 dBi

= 5 dBm (3.16 mW)

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

= $3.0 * 5 / \sqrt{2.480}$ mW

= 9.53 mW

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