

Analysis Report

The 4669 is a SleepSure Sensor incorporating a Bluetooth BLE transceiver.

The Equipment Under Test (EUT) operates at frequency range of 2402MHz to 2480MHz with 39 channels.

The EUT is powered by a 3.7V internal rechargeable battery

2.4GHz Bluetooth portion

Antenna Type: Internal, Integral

Antenna Gain: 2dBi

EIRP range is -10dBm to 0dBm

According to the KDB 447498:

Conducted Power (max) = EIRP – Antenna gain
= 0 dBm - 2 dBi
= -2 dBm (0.63 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.