

Analysis Report

The Equipment Under Test (EUT), is a 2.4GHz Bluetooth BLE (2Mbps) Transceiver for a Bluetooth voice selector converse. The sample supplied operated on 40 channels, normally at 2402 – 2480MHz. The channels are separated with 2MHz spacing.

The EUT is powered by 120VAC. After switching on the EUT, it can be paired up with a pair of earphone and will be used to perform hearing aid function.

Antenna Gain: 0 dBi

Bluetooth BLE Portion

Frequency Range: 2402MHz to 2480MHz, 2MHz channel spacing, 40 channels

Conducted Power Range: -6dBm to 3dBm

According to the KDB447498 D01 v06:

Conducted Power (maximum)
= 3 dBm (2 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.