

# Analysis Report

The Equipment Under Test (EUT), is a 2.4GHz BLE Transceiver for a BLE hair dryer. 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, air with different strength and temperature will be exhausted based on the buttons pressed on the hair dryer. The EUT can be paired up with a smartphone and different status and settings can be viewed through a mobile app.

## **2.4GHz Bluetooth BLE portion**

Antenna Type: Internal, Integral

Antenna Gain: 3dBi

Conducted (Peak) Power Range is 1dBm to 2.9dBm

According to the KDB 447498:

Conducted Power (max)  
= 2.9 dBm (1.9 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.