3.1.8 RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2017-6-26

Mode of Operation: Bluetooth mode

Test Method:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

Test Results:

The EUT complied with the requirement(s) of this section.

EUT meets the requirements of these sections as proven through MPE calculation

The MPE calculation for EUT @ 20cm

Based on the highest P = 0.929 mW

The power tune up tolerance is -4.32±1.0dBm

Max. duty factor is 100%

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Pd = PG/4pi*R^2 = (0.929 \times 1.6)/12.566* (20)^2
= (1.4864)/12.566 \times 400 = 1.4864/5026.4
= 0.000296mW/cm<sup>2</sup>
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where:

- *Pd = power density in mW/cm2
- * G = Antenna numeric gain (1.6); Log G = g/10 (g = 2.12dBi).
- * P = Conducted RF power to antenna (0.929 mW).
- * R = Minimum allowable distance.(20 cm)
- *The power density $Pd = 0.000296 \text{mW/cm}^2$ is less than 1 mW/cm² (listed MPE limit)
- *The SAR evaluation is not needed (this is a desk top device, R> 20 cm)
- * The EUT(antenna) must be 0.2 meters away from the General Population.