RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2019-05-29

Mode of Operation: Bluetooth mode/ Wifi 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

For WIFI:

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Based on the highest P = 73.11 mW
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Pd = PG/4pi*R<sup>2</sup> = (73.11x 1.93)/12.566* (20)^2
= (141.1023)/12.566x 400= 141.1023 /5026.4
= 0.028mW/cm<sup>2</sup>
```

For Bluetooth:

```
Based on the highest P = 2.417 \text{ mW}
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```
Pd = PG/4pi*R^2 = (2.417 \times 1.93)/12.566 \times (20)^2
= (4.66481)/12.566 \times 400 = 4.66481/5026.4
= 0.0009mW/cm<sup>2</sup>
```

where:

- *Pd = power density in mW/cm2
- * G = Antenna numeric gain (1.93); Log G = g/10 (g = 2.86dBi).
- * P = Conducted RF power to antenna (Wifi: 73.11 mW, Bluetooth: 2.417 mW).
- * R = Minimum allowable distance.(20 cm)
- *The WIFI power density Pd = 0.028mW/cm² is less than 1 mW/cm² (listed MPE limit)
- *The Bluetooth power density Pd = 0.0009mW/cm² 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.