RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2019-02-28 Mode of Operation: **Tx** 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 Bluetooth DSS:

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Based on the highest P = 0.864 mW
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Pd = PG/4pi*R<sup>2</sup> = (0.864 \text{ x } 1)/12.566* (20)^2
= (0.864)/12.566\text{x } 400=0.864/5026.4
= 0.00017\text{mW/cm}^2
```

where:

- *Pd = power density in mW/cm2
- * G = Antenna numeric gain (1.0); Log G = g/10 (g = 0dBi).
- * P = Conducted RF power to antenna (0.864 mW).
- * R = Minimum allowable distance. (20 cm)
- *The DSS power density Pd = 0.00017 mW/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)
- st The EUT(antenna) must be 0.2 meters away from the General Population.