Test Report

3.1.7   RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2016-10-24

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

Based on the highest P =2.339 mW

$$Pd = PG/4pi*R^2 = (2.339x\ 1.63)/12.566*(20)^2$$
$$= (3.813)/12.566x\ 400 = 3.813\ /5026.4$$
$$= 0.000759 mW/cm^2$$

where:

*Pd = power density in mW/cm2

* G = Antenna numeric gain (1.63); Log G = g/10 (g = 2.12dBi).

* P = Conducted RF power to antenna (2.339 mW).

* R = Minimum allowable distance.(20 cm)

*The power density Pd = $0.000759 mW/cm^2$ is less than 1 mW/cm^2 (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.

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