



Test Report

Date : 2018-03-07
No. : DMA000196

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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

$$\begin{aligned} P_d &= PG / 4\pi R^2 = (2.339 \times 1.63) / 12.566 \times (20)^2 \\ &= (3.813) / 12.566 \times 400 = 3.813 / 5026.4 \\ &= 0.000759 \text{ mW/cm}^2 \end{aligned}$$

where:

- * P_d = power density in mW/cm²
- * G = Antenna numeric gain (1.63); $\text{Log } G = g/10$ ($g = 2.12\text{dBi}$).
- * P = Conducted RF power to antenna (2.339 mW).
- * R = Minimum allowable distance.(20 cm)

- * The power density $P_d = 0.000759 \text{ mW/cm}^2$ is less than 1 mW/cm^2 (listed MPE limit)
- * The SAR evaluation is not needed (this is a desk top device, $R > 20 \text{ cm}$)
- * The EUT(antenna) must be 0.2 meters away from the General Population.

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