



Test Report

3.1.12 RF Exposure

Test Requirement: FCC 47CFR 15.247(i)
Test Date: 2017-11-24
Mode of Operation: On 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 $P = 0.827 \text{ mW}@2442\text{MHz}$

$$\begin{aligned} P_d &= P_G / 4\pi R^2 = (0.827 \times 1.48) / 12.566 \times (20)^2 \\ &= (1.223) / 12.566 \times 400 = 1.223 / 5026.4 \\ &= 0.000243 \text{ mW/cm}^2 \end{aligned}$$

where:

* P_d = power density in mW/cm^2

* G = Antenna numeric gain (1.48); $\text{Log } G = g/10$ ($g = 1.7\text{dBi}$).

* P = Conducted RF power to antenna ($0.827\text{mW}@2442\text{MHz}$).

* R = Minimum allowable distance.(20 cm)

*The power density $P_d = 0.000243\text{mW/cm}^2$ 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.

The Hong Kong Standards and Testing Centre Limited

Head Office: 10 Dai Wang Street, Taipo Industrial Estate, Tai Po, N.T., Hong Kong

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, No. 57 Ting Kok Road, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.

For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.