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duplicated in extracts. This test report does not entitle to carry any test mark.



Products

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1 Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT: Pass

Test Specification

Test standard : CFR47 FCC Part 2: Section 2.1091

CFR47 FCC Part 1: Section 1.1310 FCC KDB Publication 447498 v06

FCC KDB Publication 865664 D02 v01r02

OET Bulletin 65 (Edition 97-01) RSS-102 Issue 5 March 2015

> FCC requirements

FCC requirement: 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 level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20cm normally can be maintained between the user and the device.

MPE Calculation Method according to OET Bulletin 65

Power Density: $S_{(mW/cm^2)} = PG/4\pi R^2$ or $EIRP/4\pi R^2$

Where:

 $S = power density (mW/cm^2)$

P = power input to the antenna (mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (cm)

The nominal conducted output power specified:

2.4GHz wireless: 19.00 dBm (Tolerance: ± 2 dB) 802.11b/g/n(HT20): 18.00 dBm (Tolerance: ± 2 dB)

From the peak RF output power, the minimum mobile separation distance, d=20 cm, as well as the antenna gain (Max. 0.0 dBi for 2.4GHz wireless and 0.0 dBi 802.11b/g/n(HT20)), the RF power density can be calculated as below:

For 2.4GHz wireless: $S_{(mW/cm^2)} = PG/4\pi R^2 = 0.025 \text{ mW/cm}^2$ For 802.11b/g/n(HT20): $S_{(mW/cm^2)} = PG/4\pi R^2 = 0.020 \text{ mW/cm}^2$



Produkte

Products

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Limits for Maximum Permissible Exposure (MPE) according to FCC Part 1.1310:

1.0 mW/cm²

For Simultaneous transmitting of 2.4GHz wireless and 802.11b/g/n(HT20): According to 865664D02 2.2 d) 1):

The sum of the ratios of the spatially averaged results to the applicable frequency dependent MPE limits = 0.025/1 + 0.020/1 = 0.045 < 1

▶ IC requirements: The EUT shall comply with the requirement of RSS-102 section 2.5.2.

Exemption from Routine Evaluation Limits – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x $10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

- RF exposure evaluation exempted power for 2.4GHz wireless: 2.676 W
- RF exposure evaluation exempted power for 802.11b/g/n(HT20): 2.684 W

The nominal conducted output power specified:

2.4GHz wireless: 19.00 dBm (Tolerance: ± 2 dB) 802.11b/g/n(HT20): 18.00 dBm (Tolerance: ± 2 dB)

Antenna Gain: 0.0 dBi for 2.4GHz wireless Antenna Gain: 0.0 dBi for 802.11b/g/n(HT20)

The Max. e.i.r.p. for 2.4GHz wireless: 21.00 dBm = 0.126 WThe Max. e.i.r.p. for 802.11b/g/n(HT20): 20.00 dBm = 0.100 W

Both e.i.r.p. for the 2.4GHz wireless and 802.11b/g/n(HT20) are less than the RF exposure evaluation exempted power. So RF exposure evaluation is not required.

"RF Radiation Exposure Statement Caution: This Transmitter must be installed to provide a separation distance of at least 20 cm from all persons."