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)

FCC ID: 2A87I-U200

> 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/cm²)

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 maximum conducted output power specified:

2.4GHz DTS: 20.71 dBm

From the peak RF output power, the minimum mobile separation distance, d=20 cm, as well as the antenna gain (Max. 4.30 dBi for DTS), the RF power density can be calculated as below:

Fo 2.4GHz DTS: $S_{(mW/cm^2)} = PG/4\pi R^2 = 0.063 \text{ mW/cm}^2$

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