

RF Exposure Evaluation declaration

Primary Communications, Inc.

EUT:

Mobile Phone Bluetooth Docking Device

Model Number:

U118

FCC ID:

V5C-PMC88U118

Prepared for:

Primary Communications, Inc.

2430 W. Mulberry Dr., Chandler, AZ 85248, USA

**Report By : Global EMC Standard Tech. Corp.
No.3 Pau-Tou-Tsuo Valley, Chia-Pau
Tsuen, Lin Kou Hsiang, Taipei County,
Taiwan, R.O.C.**

Tel : 886-2-2603-5321

Fax : 886-2-2603-5325

1. Test results given in this report only relate to the specimen(s) tested, measured.
2. This report is the property of GesTek, and shall not be reproduced, other than in full, without the written consent of GesTek.
3. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.
4. All data in this report are traceable to national standard or international standard.

1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time (Minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits for Occupational/ Control Exposures | | | | |
| 300-1500 | -- | -- | F/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | |
| 300-1500 | -- | -- | F/1500 | 6 |
| 1500-100,000 | -- | -- | 1 | 30 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

1.3. Test Result of RF Exposure Evaluation

| | | | |
|----------------------|---------------------------------------|--------------------|------------|
| Date of Test | March 07, 2008 | Temperature | 22.5 deg/C |
| EUT | Mobile Phone Bluetooth Docking Device | Humidity | 47 %RH |
| Working Cond. | TX Mode | | |

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1dBi or 1.26 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Channel No. | Frequency (MHz) | Output Power to Antenna (mW) | Power Density at R = 20 cm (mW/cm ²) |
|-------------|-----------------|------------------------------|--|
| 1 | 2402.00 | 0.7482 | 0.0002 |
| 40 | 2441.00 | 0.6934 | 0.0002 |
| 79 | 2480.00 | 0.7211 | 0.0002 |

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².