Maximum Permissible Exposure(MPE) Estimation for MH BTS ON SO BT V2 WW

1. Introduction

MH BTS ON SO BT V2 WW is a Bluetooth Headset, which contain Bluetooth function inside.

2. Limit and Guidelines on Exposure to Electromagnetic Fields

According to§15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 Mobile Portable RF Exposure v03r03, no SAR required if power is lower than the flowing threshold:

When routine evaluation is required for SAR and the output power is ≤ 60/f(GHz) mW, the test reduction and test exclusion procedures given herein, or in KDB 616217 or KDB 648474, are applicable.

A device may be used in portable exposure conditions with no restrictions on host platforms when either the source-based time-averaged output power is ≤ 60/f(GHz) mW or all measured 1-g SAR are < 0.4 W/kg.10 When SAR evaluation is required, the most conservative exposure conditions for all expected operating configurations must be tested.

3. Calculation method

Max Peak output power: GFSK mode 2402 MHz: 4.48dBm=2.8054mW
60/ fGHz = 60/2.402 = 24.98mW
Max Peak output power<60/ fGHz
This is a portable device and the Max Peak outpur power of EUT is less than 24.98 mW, so SAR evaluation is not necessary.

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