

1. R.F Exposure/Safety BT (STD+EDR)

The typical placement of the E.U.T. is on a motorcycle helmet. The typical distance between the E.U.T. and the user is 4cm. See photo on following page.

SAR Testing Exclusion Based on Section 4.3.1 and Appendix A of KDB447498 D01 V05 and RSS 102, Issue 5, Section 2.5.2 Requirements

For FCC

Section 4.3.1 and Appendix A of KDB447498 D01 V05 was used as the guidance as follows:

Peak power output (standard) = 19.99 dBm=99.8mW.

Taking into account the -42.6dB AVG factor (page 70)

peak power = 19.99- 42.6= -22.61dBm =0.0055mW

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \left[\sqrt{f(\text{GHz})} \right]$$

=0.005/40 * 1.55=0.0002 this value is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

The SAR measurement is not necessary

For IC

(a) For IC per Table 1 of RSS 102 Issue 5, SAR exemption based on IC limit of 173.0mW at a separation distance of 40mm= 4.0cm at 2450 MHz.

EUT power transmission is 19.99 dBm= 99.8mW.

Taking into account the -42.6dB AVG factor (page 70)

peak power = 19.99- 42.6 =-22.61dBm =0.0055mW

This is below the 173.0mW SAR exemption limits.

See next page for photos.

