RF Exposure Evaluation

SAR Evaluation

The EUT is a wireless device used in an application, close to any body part of the user or nearby persons.

The maximum peak conducted power is 22.7 dBm or 186.2 mW; therefore, to comply with RF Exposure Requirement, the SAR evaluation is considered.

The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances \leq 50 mm is determined by:

[(max. power of channel(average), including tune-up tolerance, mW)/(min. test separation distance, mm)]*[SQRT(f(GHz))] = [(9.387)/5]*[SQRT(2.48)] = 2.96

Since the above calculation is less than 3.0, the product fulfils the RF exposure requirement without SAR testing.

Remark:

- 1. Average conducted power is 186.2 mW x 0.05047 (duty cycle factor) = 9.387 mW
- 2. When the minimum test separation distance is < 5mm, a distance of 5mm is applied to determine SAR test exclusion.