

3. RADIO FRREQUENCY EXPOSURE COMPLIANCE

RESULT : PASS

Test standard : FCC KDB Publication 447498 D01 V05 Since maximum peak output power of the transmitter is 14.1mW<16 mW (SAR Test Exclusion Thresholds for 900 MHz) hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01:General RF Exposure Guidance V05.

Besides,

Rated power: 10+/- 1.5dBm and the max rated power is 11.5dBm(14.125mW)

The min.test separation distance is 5mm.

According to below formual described in KDB447498:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

The calculate result is:

$14.125\text{Mw}/5\text{mm} \cdot 0.927\text{GHz} = 2.618 \leq 3.0$

So the SAR measurement can be excluded.