

Standalone SAR test exclusion considerations

September 14, 2015

- Max. transmitting frequency = 2480 MHz
- Max. test separation distance = 30 mm
- Max. power with turn-up tolerance = Typical Power: 6.00 dBm \pm 3.00 dB
Measured Average Power: 8.85 dBm
Maximum antenna peak gain: 0.50 dBi

Maximum output power for the calculation: 9.00 dBm

SAR test exclusion EIRP for 2450MHz at separationn distances of 30 mm : 83 mW

$$\begin{aligned}
 \text{EIRP} &= P + G \\
 &= 9.00 \text{ dBm} + 0.50 \text{ dBi} \\
 &= 9.50 \text{ dBm} = 8.913 \text{ mW} \leq 83 \text{ mW (Exemption Limits(mW))}
 \end{aligned}$$

Thus SAR for this device is not required.

* Note : P = Power input to the antenna(dBm)
G = Power gain of the antenna(dBi)