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**FCC §15.247 & §1.1310 & §2.1093 - RF EXPOSURE**

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**Applicable Standard**

**According to §15.247(i) and §1.1310, 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 KDB447498 D01 General RF Exposure Guidance v06:**

**The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  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  $\leq 7.5$  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**
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below**

**The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.**

**Measurement Result**

**The max conducted power including tune-up tolerance is 1.50 dBm (1.41mW).**

**$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$   
 $= 1.41/5(\sqrt{2.48}) = 0.4 < 3.0$**

**So the stand-alone SAR evaluation is not necessary.**