

## 5.9 RF Exposure

### 5.9.1 Regulation

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

See § 1.1307(b)(1) of this Chapter.

**KDB447498 was used as the guidance.**

According to §1.1310 and §2.1093 RF exposure is calculated.

### 5.9.2 Result

Test frequency (GHz)	Conducted output power (dBm)	Conducted output power (mW)	Min. test separation distance (mm)	SAR test exclusion thresholds ≤ 3 for 1-g SAR
2.402	4.77	3.00	5.00	0.93

- SAR test exclusion thresholds  
= [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]  
= [(3)/(5)] · [√2.402] = 0.93

### 5.9.3 RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.