

RF Exposure

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.

2. Result

Frequency (MHz)	Target Power (dBm)	Tune up Tolerance (dB)	Max tune up Power (dBm)	Max tune up Power (mW)	Min. test separation Distance (mm)	SAR Test exclusion thresholds ≤ 3 for 1-g SAR
2 425	0.00	± 2	2.00	1.58	5.00	0.493 61

NOTE 1 : Measured Power : 1.02 dBm

NOTE 2 : SAR test exclusion thresholds

$$= [(\text{Max tune-up Power, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$= (1.58 / 5.00) / (\sqrt{ 2.425 }) = 0.493 61$$

3. RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.