

* 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.

Target power table

Mode	Target power [dBm]	Allowed tolerant [dB]	Max tune up power [dBm]	Measured Average power [dBm]
GFSK	2.00	±2.00	4.00	3.33
8DPSK	0.50	±2.00	2.50	2.24

1.1 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
2.480	4.00	2.51	5.00	0.79

- SAR test exclusion thresholds

$$= [(max. \text{ power of channel, including tune-up tolerance, mW}) / (min. \text{ test separation distance, mm})] \cdot [\sqrt{f(GHz)}]$$

$$= [(2.51)/(5)] \cdot [\sqrt{2.480}] = 0.79$$

1.2 RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.