

## \* 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	Conducted output power	Conducted output power	Min. test separation distance	SAR test exclusion thresholds
(GHz)	(dBm)	(mW)	(mm)	$\leq$ 3 for 1-g SAR
2.480	4.00	2.51	5.00	0.79

#### 1. SAR test exclusion thresholds

# 1.2 RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.

<sup>= [(</sup>max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(G|z)}]$ 

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