

FCC ID:2BBGN-XJ100

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), 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 level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 ≤ 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

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2.4GWIFI:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	6.97	4.98	6±1	7.00	5.01	<5	1.55675	3.00	YES
	2.437	7.577	5.72	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.447	5.56	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	6.911	4.91	6±1	7.00	5.01	<5	1.55675	3.00	YES
	2.437	7.492	5.61	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.377	5.47	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT20)	2.412	6.454	4.42	6±1	7.00	5.01	<5	1.55675	3.00	YES
	2.437	7.158	5.20	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	6.95	4.95	6±1	7.00	5.01	<5	1.57280	3.00	YES

Conclusion:

For the max result : $1.98004 \leq \text{FCC Limit } 3.0$ for 1g SAR.