

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.

BLE:

Antenna Type :FPCB Antenna

Antenna Gain: 1 dBi

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-2.17	0.607	-2±1	-1	0.794	<5	0.24622	3.00	YES
	2.44	-2.16	0.608	-2±1	-1	0.794	<5	0.24816	3.00	YES
	2.480	-2.47	0.566	-2±1	-1	0.794	<5	0.25018	3.00	YES

WIFI

Antenna Type : Metal Antenna

Antenna Gain: 1 dBi

Modulation	Channel Freq. (MHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Result calculation	1g SAR
802.11b	2412	9.3	8.51	8.5±1	9.50	8.91	2.76259	3.00
	2437	9.2	8.32	8.5±1	9.50	8.91	2.78264	3.00
	2462	9.4	8.71	8.5±1	9.50	8.91	2.80709	3.00
802.11g	2412	9	7.94	8.5±1	9.50	8.91	2.76259	3.00
	2437	9.5	8.91	8.5±1	9.50	8.91	2.78493	3.00
	2462	9.4	8.71	8.5±1	9.50	8.91	2.80709	3.00
802.11n HT20	2412	9	7.94	8±1	9.00	7.94	2.46216	3.00
	2437	8.6	7.24	8±1	9.00	7.94	2.48207	3.00
	2462	8.5	7.08	8±1	9.00	7.94	2.50182	3.00

Conclusion:

For the max result : $2.80709 \leq 3.0$ for 1-g SAR, No SAR is required.

Jason chen

Signature:

Date: 2017-11-15

NAME AND TITLE (Please print or type): Jason Chen /Manager

COMPANY (Please print or type): Shenzhen NTEK Testing Technology Co., Ltd./ 1/F, Building E,
Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R.
China