

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.

WIFI2.4G:

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	0.37	1.09	1±1	2	1.58	<5	0.49229	3.00	YES
	2.437	0.7	1.17	1±1	2	1.58	<5	0.49483	3.00	YES
	2.462	1.06	1.28	1±1	2	1.58	<5	0.49736	3.00	YES
802.11g	2.412	-1.74	0.67	-1±1	0	1.00	<5	0.31061	3.00	YES
	2.437	-1.36	0.73	-1±1	0	1.00	<5	0.31222	3.00	YES
	2.462	-0.92	0.81	-1±1	0	1.00	<5	0.31382	3.00	YES
802.11n20	2.412	-2.96	0.51	-2±1	-1	0.79	<5	0.24673	3.00	YES
	2.437	-1.14	0.77	-1±1	0	1.00	<5	0.31222	3.00	YES
	2.462	-0.84	0.82	-1±1	0	1.00	<5	0.31382	3.00	YES
802.11n40	2.422	0.78	1.20	1±1	2	1.58	<5	0.49331	3.00	YES
	2.437	0.92	1.24	1±1	2	1.58	<5	0.49483	3.00	YES
	2.452	1.13	1.30	1±1	2	1.58	<5	0.49635	3.00	YES

WIFI 5.8G

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
802.11a	5.745	0.94	1.24	1±1	2	1.58	<5	0.75976	3.00	YES
	5.785	0.59	1.15	1±1	2	1.58	<5	0.76240	3.00	YES
	5.825	0.72	1.18	1±1	2	1.58	<5	0.76503	3.00	YES
802.11n(HT20)	5.745	0.84	1.21	1±1	2	1.58	<5	0.75976	3.00	YES
	5.785	0.43	1.10	1±1	2	1.58	<5	0.76240	3.00	YES
	5.825	0.63	1.16	1±1	2	1.58	<5	0.76503	3.00	YES
802.11n(HT40)	5.755	0.73	1.18	1±1	2	1.58	<5	0.76042	3.00	YES
	5.795	0.26	1.06	1±1	2	1.58	<5	0.76306	3.00	YES

Conclusion:

For the max result : $0.76503 \leq 3.0$ for 1g SAR, No SAR is required.

ALEX LI

Signature:

Date: 2019-12-17

NAME AND TITLE (Please print or type): Alex Li /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 P.R. China.