

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.

2.4G :

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 calculation	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	9.17	8.26	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.33	8.57	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	9.34	8.59	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11g	2.412	9.25	8.41	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	9.17	8.26	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	8.1	6.46	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11n20	2.412	8.24	6.67	8.5±1	9.5	8.91	<5	2.76834	3.00	YES
	2.437	8.85	7.67	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	8.43	6.97	8.5±1	9.5	8.91	<5	2.79688	3.00	YES
802.11n40	2.422	7.06	5.08	7.5±1	8.5	7.08	<5	2.20352	3.00	YES
	2.437	7.56	5.70	7.5±1	8.5	7.08	<5	2.21033	3.00	YES
	2.452	6.65	4.62	7.5±1	8.5	7.08	<5	2.21713	3.00	YES

BLE:

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
GFSK	2.402	-11.269	0.07	-11±1	-10	0.10	<5	0.03100	3.00	YES
	2.440	-10.973	0.08	-11±1	-10	0.10	<5	0.03124	3.00	YES
	2.480	-11.559	0.07	-11±1	-10	0.10	<5	0.03150	3.00	YES

EDR:

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
GFSK	2.402	-10.808	0.08	-11±1	-10	0.10	<5	0.03100	3.00	YES
	2.441	-10.909	0.08	-11±1	-10	0.10	<5	0.03125	3.00	YES
	2.480	-11.612	0.07	-11±1	-10	0.10	<5	0.03150	3.00	YES
$\pi/4$ -DQPSK	2.402	-10.928	0.08	-11±1	-10	0.10	<5	0.03100	3.00	YES
	2.441	-10.617	0.09	-11±1	-10	0.10	<5	0.03125	3.00	YES
	2.480	-11.63	0.07	-11±1	-10	0.10	<5	0.03150	3.00	YES
8-DQPSK	2.402	-11.573	0.07	-11±1	-10	0.10	<5	0.03100	3.00	YES
	2.441	-10.176	0.10	-11±1	-10	0.10	<5	0.03125	3.00	YES
	2.480	-11.381	0.07	-11±1	-10	0.10	<5	0.03150	3.00	YES

Conclusion:

For the max result : $2.79688 \leq 3.0$ for 1g SAR, SAR is not required.

Note: The product has only one antenna and does not support simultaneous Tx.

**Signature:****Date:** 2021-12-16**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.