

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.

BR+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	-5.635	0.27	-6 $\pm$ 1	-5	0.32	<5	0.09802	3.00	YES
	2.441	-5.676	0.27	-6 $\pm$ 1	-5	0.32	<5	0.09881	3.00	YES
	2.480	-6.719	0.21	-6 $\pm$ 1	-5	0.32	<5	0.09960	3.00	YES
$\pi/4$ -DQPSK	2.402	-5.025	0.31	-5.5 $\pm$ 1	-4.5	0.35	<5	0.10998	3.00	YES
	2.441	-4.995	0.32	-5.5 $\pm$ 1	-4.5	0.35	<5	0.11087	3.00	YES
	2.480	-6.134	0.24	-5.5 $\pm$ 1	-4.5	0.35	<5	0.11175	3.00	YES
8-DQPSK	2.402	-4.612	0.35	-5.5 $\pm$ 1	-4.5	0.35	<5	0.10998	3.00	YES
	2.441	-4.612	0.35	-5.5 $\pm$ 1	-4.5	0.35	<5	0.11087	3.00	YES
	2.480	-5.694	0.27	-5.5 $\pm$ 1	-4.5	0.35	<5	0.11175	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
BLE	2.402	-5.827	0.26	-6.5 $\pm$ 1	-5.5	0.28	<5	0.08736	3.00	YES
	2.440	-7.386	0.18	-6.5 $\pm$ 1	-5.5	0.28	<5	0.08805	3.00	YES
	2.480	-6.175	0.24	-6.5 $\pm$ 1	-5.5	0.28	<5	0.08877	3.00	YES

Conclusion:

For the max result : $0.11175 \leq 3.0$ for 1g SAR, SAR is not required.



Signature:

Date: 2021-07-13

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.