

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.

BT

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	1.746	1.49	2±1	3	2.00	<5	0.61847	3.00	YES
	2.441	1.398	1.38	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	2.524	1.79	2±1	3	2.00	<5	0.62843	3.00	YES
$\pi/4$ -DQPSK	2.402	2.550	1.80	3±1	4	2.51	<5	0.77860	3.00	YES
	2.441	2.249	1.68	3±1	4	2.51	<5	0.78490	3.00	YES
	2.480	3.252	2.11	3±1	4	2.51	<5	0.79114	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-1M	2.402	-0.908	0.81	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.44	-1.067	0.78	-1±1	0	1.00	<5	0.31241	3.00	YES
	2.480	-1.108	0.77	-1±1	0	1.00	<5	0.31496	3.00	YES
GFSK-2M	2.402	-0.673	0.86	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.44	-0.977	0.80	-1±1	0	1.00	<5	0.31241	3.00	YES
	2.480	-1.036	0.79	-1±1	0	1.00	<5	0.31496	3.00	YES

Conclusion:

For the max result : $0.79114 \leq 3.0$ for 1g SAR, No SAR is required.

Alex

Signature:

Date: 2022-09-23

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.