

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	-4.536	0.35	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.441	-4.636	0.34	-4±1	-3	0.50	<5	0.15661	3.00	YES
	2.480	-4.615	0.35	-4±1	-3	0.50	<5	0.15785	3.00	YES
$\pi/4$ -DQPSK	2.402	-4.594	0.35	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.441	-4.68	0.34	-4±1	-3	0.50	<5	0.15661	3.00	YES
	2.480	-4.644	0.34	-4±1	-3	0.50	<5	0.15785	3.00	YES
8-DPSK	2.402	-4.567	0.35	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.441	-4.647	0.34	-4±1	-3	0.50	<5	0.15661	3.00	YES
	2.480	-4.599	0.35	-4±1	-3	0.50	<5	0.15785	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	-4.519	0.35	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.44	-4.61	0.35	-4±1	-3	0.50	<5	0.15658	3.00	YES
	2.480	-4.585	0.35	-4±1	-3	0.50	<5	0.15785	3.00	YES

Conclusion:

For the max result : $0.15785\text{W/Kg} \leq 3.0$ for 1g SAR, No SAR is required.



Signature:

Date: 2019-11-15

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 P.R. China.