

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: Left

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	0.059	1.01	1±1	2	1.58	<5	0.49127	3.00	YES
	2.441	1.309	1.35	1±1	2	1.58	<5	0.49524	3.00	YES
	2.480	0.720	1.18	1±1	2	1.58	<5	0.49918	3.00	YES
$\pi/4$ -DQPSK	2.402	0.831	1.21	1.5±1	2.5	1.78	<5	0.55121	3.00	YES
	2.441	2.091	1.62	1.5±1	2.5	1.78	<5	0.55567	3.00	YES
	2.480	1.520	1.42	1.5±1	2.5	1.78	<5	0.56009	3.00	YES

BT: Right

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	-1.963	0.64	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.441	-0.770	0.84	-1±1	0	1.00	<5	0.31247	3.00	YES
	2.480	-1.522	0.70	-1±1	0	1.00	<5	0.31496	3.00	YES
$\pi/4$ -DQPSK	2.402	-1.202	0.76	-0.5±1	0.5	1.12	<5	0.34779	3.00	YES
	2.441	0.011	1.00	-0.5±1	0.5	1.12	<5	0.35060	3.00	YES
	2.480	-0.814	0.83	-0.5±1	0.5	1.12	<5	0.35339	3.00	YES

Conclusion:

For the max result : $0.56009 \leq 3.0$ for 1g SAR, No SAR is required.

Alex

Signature:

Date: 2022-03-26

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.