

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.

Antenna Type: Wire Antenna

Antenna Gain: 0.1 dBi

Modulation	Channel Freq. (GHz)	EIRP power (dBm)	Conducted 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	-0.41	0.91	-0.5±1	0.5	1.12	<5	0.34779	3.00	YES
	2.441	-0.66	0.86	-0.5±1	0.5	1.12	<5	0.35060	3.00	YES
	2.480	-1.99	0.63	-2±1	-1	0.79	<5	0.25018	3.00	YES
$\pi/4$ -DQPSK	2.402	-1.1	0.78	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.441	-1.34	0.73	-1±1	0	1.00	<5	0.31247	3.00	YES
	2.480	-2.2	0.60	-2±1	-1	0.79	<5	0.25018	3.00	YES
8-DQPSK	2.402	-0.72	0.85	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.441	-1.11	0.77	-1±1	0	1.00	<5	0.31247	3.00	YES
	2.480	-1.85	0.65	-2±1	-1	0.79	<5	0.25018	3.00	YES
BLE 1M	2.402	-0.31	0.93	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.440	-1.5	0.71	-1±1	0	1.00	<5	0.31241	3.00	YES
	2.480	-1.99	0.63	-2±1	-1	0.79	<5	0.25018	3.00	YES
BLE 2M	2.402	-0.79	0.83	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.440	-1.29	0.74	-1±1	0	1.00	<5	0.31241	3.00	YES
	2.480	-2.01	0.63	-2±1	-1	0.79	<5	0.25018	3.00	YES

Conclusion:

For the max result : $0.35060 \leq 3.0$ for 1g SAR, SAR is not required.



Signature:

Date: 2025-01-15

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.