

FCC ID: 2ABU6-MBM01

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(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.

series-parallel connection:

Antenna Type: PCB Antenna

Antenna Gain: 3.35dBi

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 calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK(1M)	2.402	-1.68	0.679	-2±1	-1	0.794	<5	0.24622	3.00	YES
	2.44	-1.69	0.678	-2±1	-1	0.794	<5	0.24816	3.00	YES
	2.480	-2.26	0.594	-2±1	-1	0.794	<5	0.25018	3.00	YES
GFSK(2M)	2.402	-1.67	0.681	-2±1	-1	0.794	<5	0.24622	3.00	YES
	2.44	-1.7	0.676	-2±1	-1	0.794	<5	0.24816	3.00	YES
	2.480	-2.26	0.594	-2±1	-1	0.794	<5	0.25018	3.00	YES

parallel connection

Antenna Type: PCB Antenna

Antenna Gain: 3.57dBi

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 calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK(1M)	2.402	-1.31	0.740	-2±1	-1	0.794	<5	0.24622	3.00	YES
	2.44	-1.41	0.723	-2±1	-1	0.794	<5	0.24816	3.00	YES
	2.480	-1.5	0.708	-2±1	-1	0.794	<5	0.25018	3.00	YES
GFSK(2M)	2.402	-1.28	0.745	-2±1	-1	0.794	<5	0.24622	3.00	YES
	2.441	-1.26	0.748	-2±1	-1	0.794	<5	0.24821	3.00	YES
	2.480	-1.46	0.714	-2±1	-1	0.794	<5	0.25018	3.00	YES

Conclusion:

For the max result : $0.25018 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature:

Date: 2022-04-22

NAME AND TITLE (Please print or type): Alex /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 518126 P.R. China