

FCC ID:2AH4A-BTGP-2

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 V05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz;}$$

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

Bluetooth:

Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	1g SAR
2.402	GFSK	3.330	3 $\pm$ 1	4	0.7786	3
2.441		3.100	3 $\pm$ 1	4	0.7849	3
2.480		2.960	3 $\pm$ 1	4	0.7911	3
2.402	$\pi/4$ -DQPSK	2.210	2 $\pm$ 1	3	0.6185	3
2.441		2.010	2 $\pm$ 1	3	0.6235	3
2.480		1.830	2 $\pm$ 1	3	0.6284	3
2.402	8DPSK	2.240	2 $\pm$ 1	3	0.6185	3
2.441		2.030	2 $\pm$ 1	3	0.6235	3
2.480		1.920	2 $\pm$ 1	3	0.6284	3

Conclusion:

For the max result : 0.7911 $\leq$ 3.0 for 1g SAR, No SAR is required.

Jason chen

Signature:

Date: 2016-4-26

NAME AND TITLE (Please print or type): Jack 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.