

## FCC ID:2A1F5-EM200

### 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  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})]^*$

$[\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  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;

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 calculated.

Bluetooth DSS:

Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	1g SAR
2.402	GFSK	1.979	3±1	4	0.7786	3
2.441		2.159	3±1	4	0.7849	3
2.48		2.015	3±1	4	0.7911	3
2.402	$\pi/4$ -DQPSK	3.512	3±1	4	0.7786	3
2.441		3.482	3±1	4	0.7849	3
2.48		3.219	3±1	4	0.7911	3
2.402	8DPSK	3.677	3±1	4	0.7786	3
2.441		3.706	3±1	4	0.7849	3
2.48		3.197	3±1	4	0.7911	3

Bluetooth DTS:

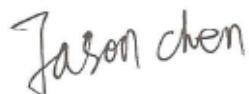
Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	1g SAR
2.402	GFSK	7.928	8±1	9	2.4622	3
2.440		7.900	8±1	9	2.4816	3
2.48		7.543	8±1	9	2.5018	3

Maximum measured transmitter power:

Transmit Frequency (GHz)	Mode	Measured Power (dBm)	Tune-up power (dBm)	Max tune-up power(dBm)	Result calculation	1g SAR
2.412	802.11b	9.35	8.8±1	9.8	2.9663	3
2.437		9.31	8.8±1	9.8	2.9817	3
2.462		9.65	8.8±1	9.8	2.9969	3
2.412	802.11g	8.10	8±1	9	2.4673	3
2.437		8.95	8±1	9	2.4800	3
2.462		8.19	8±1	9	2.4927	3
2.412	802.11n HT20	8.92	8.5±1	9.5	2.7683	3
2.437		8.91	8.5±1	9.5	2.7826	3
2.462		9.14	8.5±1	9.5	2.7969	3
2.422	802.11n HT40	5.09	6±1	7	1.5600	3
2.437		5.42	6±1	7	1.5648	3
2.452		5.27	6±1	7	1.5696	3

**Conclusion:**

For the max result :  $2.9969 \leq 3.0$  for 1g SAR, No SAR is required.



**Signature:**

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**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.