

# FCC ID: 2AAHC-BTSPKS10

## 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 calculate.

Maximum measured transmitter power:

Frequency (GHz)	Modulation Mode	Conducted Power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Result Calculation	1-g SAR
2.402	GFSK	0.31	-0.5±1	0.5	0.35	3.0
2.441		-0.33	-0.5±1	0.5	0.35	3.0
2.480		-1.25	-0.5±1	0.5	0.35	3.0
2.402	$\pi/4$ -DQPSK	0.44	0±1	1	0.39	3.0
2.441		-0.05	0±1	1	0.39	3.0
2.480		-0.97	0±1	1	0.40	3.0
2.402	8DQPSK	1.50	1±1	2	0.49	3.0
2.441		1.01	1±1	2	0.50	3.0
2.480		0.12	1±1	2	0.50	3.0

### Conclusion:

For the max result :  $0.50 \leq 3.0$  for 1-g SAR extremity SAR, No SAR is required.



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