

**FCC ID: 2A7FR-H1**

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  $\leq 50$  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  $\leq 7.5$  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

When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

Antenna Type: PCB Antenna

Antenna Gain: 0.56dBi

BLE(1M)

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.042	1.010	1±1	2.0	1.585	<5	0.49127	3.00	YES
	2.440	1.19	1.315	1±1	2.0	1.585	<5	0.49514	3.00	YES
	2.480	1.241	1.331	1±1	2.0	1.585	<5	0.49918	3.00	YES

BLE(2M)

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.079	1.018	1±1	2.0	1.585	<5	0.49127	3.00	YES
	2.440	1.206	1.320	1±1	2.0	1.585	<5	0.49514	3.00	YES
	2.480	1.265	1.338	1±1	2.0	1.585	<5	0.49918	3.00	YES

**Conclusion:**

For the max result :  $0.49918 \leq 3.0$  for 1-g SAR, No SAR is required.


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