

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:

- $f(\text{GHz})$ 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.

EIRP=Conducted power+ Antenna Gain

Antenna Gain: 3.3 dBi

Modulation	Channel Freq. (GHz)	EIRP power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
BLE 1M	2.402	2.2	1.66	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.440	2.78	1.90	2.5±1	3.5	2.24	<5	0.69940	3.00	YES
	2.480	3.16	2.07	2.5±1	3.5	2.24	<5	0.70511	3.00	YES
BLE 2M	2.402	2.28	1.69	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.440	2.79	1.90	2.5±1	3.5	2.24	<5	0.69940	3.00	YES
	2.480	3.19	2.08	2.5±1	3.5	2.24	<5	0.70511	3.00	YES

Conclusion:

For the max result : $0.70511 \leq 3.0$ for 1g SAR, SAR is not required.



Signature:

Date: 2025-07-09

NAME AND TITLE (Please print or type): Alex li /Manager

COMPANY (Please print or type): No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China