

FCC ID: 2AU4M-QW-BG02

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.

BLE/ANT+:

Antenna Type: FPC Antenna

Antenna Gain: Module 1 (nRF52832):1.3dBi, Module 2 (SF32LB557VD3A6):1.5dBi

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d 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
BLE(1M) Module 1	2.402	-4.46	0.358	-4±1	-3	0.501	<5	0.15535	3.00	YES
	2.440	-4.69	0.340	-4±1	-3	0.501	<5	0.15658	3.00	YES
	2.480	-4.91	0.323	-4±1	-3	0.501	<5	0.15785	3.00	YES
BLE(2M) Module 1	2.402	-4.38	0.365	-4±1	-3	0.501	<5	0.15535	3.00	YES
	2.440	-4.65	0.343	-4±1	-3	0.501	<5	0.15658	3.00	YES
	2.480	-4.71	0.338	-4±1	-3	0.501	<5	0.15785	3.00	YES
BLE(1M) Module 2	2.402	-5.46	0.284	-5±1	-4	0.398	<5	0.12340	3.00	YES
	2.440	-4.23	0.378	-4±1	-3	0.501	<5	0.15658	3.00	YES
	2.480	-3.77	0.420	-4±1	-3	0.501	<5	0.15785	3.00	YES
BLE(2M) Module 2	2.402	-5.71	0.269	-5±1	-4	0.398	<5	0.12340	3.00	YES
	2.440	-4.34	0.368	-4±1	-3	0.501	<5	0.15658	3.00	YES
	2.480	-3.82	0.415	-4±1	-3	0.501	<5	0.15785	3.00	YES
ANT+ (1M)	2.457	-0.940	0.810	0±1	1	1.259	<5	0.39467	3.00	YES
ANT+ (2M)	2.457	-0.940	0.810	0±1	1	1.259	<5	0.39467	3.00	YES

Note: This product does not support the requirements under multiple sources.

Conclusion:

For the max result : $0.39467 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature: 

Date: 2025-02-12

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

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