

FCC ID: 2AU4M-BSC200S

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:

Antenna Type: Sheet Steel Antenna

Antenna Gain: Module 1(nRF52805):0.59dBi, Module 2(SF32LB52DUB6):0.28dBi

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	-1.24	0.752	-1±1	0	1.000	<5	0.30997	3.00	YES
	2.440	-1.21	0.757	-1±1	0	1.000	<5	0.31241	3.00	YES
	2.480	-0.89	0.815	-1±1	0	1.000	<5	0.31496	3.00	YES
BLE(2M) Module 1	2.402	-1.18	0.762	-1±1	0	1.000	<5	0.30997	3.00	YES
	2.440	-1.20	0.759	-1±1	0	1.000	<5	0.31241	3.00	YES
	2.480	-0.92	0.809	-1±1	0	1.000	<5	0.31496	3.00	YES
BLE(1M) Module 2	2.402	0.31	1.074	0±1	1	1.259	<5	0.39023	3.00	YES
	2.440	0.28	1.067	0±1	1	1.259	<5	0.39330	3.00	YES
	2.480	0.62	1.153	0±1	1	1.259	<5	0.39651	3.00	YES
BLE(2M) Module 2	2.402	0.36	1.086	0±1	1	1.259	<5	0.39023	3.00	YES
	2.440	0.34	1.081	0±1	1	1.259	<5	0.39330	3.00	YES
	2.480	0.71	1.178	0±1	1	1.259	<5	0.39651	3.00	YES

ANT:

Antenna Type: Sheet Steel Antenna

Antenna Gain: 0.59dBi

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	SAR Exclusion threshold	SAR test exclusion
ANT+ 1M	2.457	-7.77	0.167	-7±1	-6	0.25	<5	0.07875	3.00	YES
ANT+ 2M	2.457	-7.57	0.175	-7±1	-6	0.25	<5	0.07875	3.00	YES

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

Conclusion:

For the max result : $0.39651 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature:

Alex Li

Date: 2025-01-03

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