

FCC ID: 2BWWN-TG68

Portable device

According to 47 CFR, Part2.1093 and 47 CFR, Part1.1307, 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.

BR+EDR:

Antenna Type: Wire Antenna

Antenna Gain: 0dBi

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
GFSK	2.402	-2.21	0.60	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.441	-1.92	0.64	-2±1	-1	0.79	<5	0.24821	3.00	YES
	2.480	-1.03	0.79	-1±1	0	1.00	<5	0.31496	3.00	YES
π/4-DQPSK	2.402	-4.03	0.40	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.441	-3.79	0.42	-4±1	-3	0.50	<5	0.15661	3.00	YES
	2.480	-2.95	0.51	-3±1	-3	0.50	<5	0.15785	3.00	YES
8-DPSK	2.402	-3.64	0.43	-4±1	-3	0.50	<5	0.15535	3.00	YES
	2.441	-3.37	0.46	-3±1	-2	0.63	<5	0.19716	3.00	YES
	2.480	-2.47	0.57	-3±1	-2	0.63	<5	0.19873	3.00	YES

BLE:

Antenna Type: Wire Antenna

Antenna Gain: 0dBi

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	2.402	-1.88	0.65	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.440	-1.66	0.68	-2±1	-1	0.79	<5	0.24816	3.00	YES
	2.480	-0.81	0.83	-1±1	0	1.00	<5	0.31496	3.00	YES
BLE 2M	2.402	-1.83	0.66	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.440	-1.62	0.69	-2±1	-1	0.79	<5	0.24816	3.00	YES
	2.480	-0.77	0.84	-1±1	0	1.00	<5	0.31496	3.00	YES

Conclusion:

For the max result: $0.31496 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature: 

Date: 2026-06-24

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