

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.

BT:

Antenna Type: PCB antenna

Antenna Gain: -0.58dBi;

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
GFSK	2.402	2.61	1.824	3±1	4	2.512	<5	0.77860	3.00	YES
	2.441	3.44	2.208	3±1	4	2.512	<5	0.78490	3.00	YES
	2.480	3.26	2.118	3±1	4	2.512	<5	0.79114	3.00	YES
$\pi/4$ -DQPSK	2.402	3.58	2.280	4±1	5	3.162	<5	0.98020	3.00	YES
	2.441	4.18	2.618	4±1	5	3.162	<5	0.98813	3.00	YES
	2.480	4.08	2.559	4±1	5	3.162	<5	0.99599	3.00	YES
8-DPSK	2.402	3.84	2.421	4±1	5	3.162	<5	0.98020	3.00	YES
	2.441	4.43	2.773	4±1	5	3.162	<5	0.98813	3.00	YES
	2.480	4.26	2.667	4±1	5	3.162	<5	0.99599	3.00	YES

BLE:

Antenna Type: PCB antenna

Antenna Gain: -0.58dBi;

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	2.76	1.888	3±1	4	2.512	<5	0.77860	3.00	YES
	2.440	3.36	2.168	3±1	4	2.512	<5	0.78474	3.00	YES
	2.480	3.28	2.128	3±1	4	2.512	<5	0.79114	3.00	YES
BLE(2M)	2.402	2.79	1.901	3±1	4	2.512	<5	0.77860	3.00	YES
	2.440	3.39	2.183	3±1	4	2.512	<5	0.78474	3.00	YES
	2.480	3.37	2.173	3±1	4	2.512	<5	0.79114	3.00	YES

Conclusion:

For the max result : $0.99599 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature:

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Date: 2025-06-30

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