

FCC ID:2BC3D-BOOMZ

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.

EDR:

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	-2.99	0.50	-2±1	-1.00	0.79	<5	0.24622	3.00	YES
	2.441	-2.601	0.55	-2±1	-1.00	0.79	<5	0.24821	3.00	YES
	2.480	-2.519	0.56	-2±1	-1.00	0.79	<5	0.25018	3.00	YES
π /4DQPSK	2.402	-2.182	0.61	-2±1	-1.00	0.79	<5	0.24622	3.00	YES
	2.441	-1.75	0.67	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-1.667	0.68	-1±1	0.00	1.00	<5	0.31496	3.00	YES
8DQPSK	2.402	-1.785	0.66	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.441	-1.425	0.72	-1±1	0.00	1.00	<5	0.31247	3.00	YES
	2.480	-1.306	0.74	-1±1	0.00	1.00	<5	0.31496	3.00	YES

BLE:1M

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	-2.544	0.56	-2±1	-1.00	0.79	<5	0.24622	3.00	YES
	2.44	-2.144	0.61	-2±1	-1.00	0.79	<5	0.24816	3.00	YES
	2.480	-1.966	0.64	-1±1	0.00	1.00	<5	0.31496	3.00	YES

2M

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	-2.496	0.56	-2±1	-1.00	0.79	<5	0.24622	3.00	YES
	2.44	-2.098	0.62	-2±1	-1.00	0.79	<5	0.24816	3.00	YES
	2.480	-1.896	0.65	-1±1	0.00	1.00	<5	0.31496	3.00	YES

Conclusion:

For the max result : $0.31496 \leq \text{FCC Limit } 3.0$ for 1g SAR.