

FCC ID: 2AXXV-LPEN01

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(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: PCB Antenna

Antenna Gain: 1dBi

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 calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	5.119	3.250	5±1	6.0	3.981	<5	1.23400	3.00	YES
	2.441	5.313	3.399	5±1	6.0	3.981	<5	1.24398	3.00	YES
	2.480	5.109	3.243	5±1	6.0	3.981	<5	1.25388	3.00	YES
π/4-DQPSK	2.402	4.904	3.093	4±1	5.0	3.162	<5	0.98020	3.00	YES
	2.441	6.857	4.850	5±1	6.0	3.981	<5	1.24398	3.00	YES
	2.480	5.094	3.231	5±1	6.0	3.981	<5	1.25388	3.00	YES
8DPSK	2.402	5.439	3.499	5±1	6.0	3.981	<5	1.23400	3.00	YES
	2.441	5.943	3.929	5±1	6.0	3.981	<5	1.24398	3.00	YES
	2.480	5.603	3.633	5±1	6.0	3.981	<5	1.25388	3.00	YES

BLE:

Antenna Type: PCB Antenna

Antenna Gain: 1dBi

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 calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	6.738	4.718	7.5±1	8.5	7.079	<5	2.19440	3.00	YES
	2.440	7.894	6.157	7.5±1	8.5	7.079	<5	2.21169	3.00	YES
	2.480	8.286	6.739	7.5±1	8.5	7.079	<5	2.22975	3.00	YES

Conclusion:

For the max result : 2.22975 ≤ 3.0 for for Max Power Density, compliance RF exposure..

Signature:

Date: 2020-10-22

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