

FCC ID: 2APDQBT-GPEN01

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: Cable 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	3.90	2.455	4±1	5.0	3.162	<5	0.98020	3.00	YES
	2.441	4.12	2.582	4±1	5.0	3.162	<5	0.98813	3.00	YES
	2.480	3.86	2.432	4±1	5.0	3.162	<5	0.99599	3.00	YES
π/4-DQPSK	2.402	3.54	2.259	3±1	4.0	2.512	<5	0.77860	3.00	YES
	2.441	3.81	2.404	3±1	4.0	2.512	<5	0.78490	3.00	YES
	2.480	3.55	2.265	3±1	4.0	2.512	<5	0.79114	3.00	YES
8DPSK	2.402	3.56	2.270	3±1	4.0	2.512	<5	0.77860	3.00	YES
	2.441	3.84	2.421	3±1	4.0	2.512	<5	0.78490	3.00	YES
	2.480	3.61	2.296	3±1	4.0	2.512	<5	0.79114	3.00	YES

BLE:

Antenna Type: Cable 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	3.55	2.265	3±1	4	2.512	<5	0.77860	3.00	YES
	2.440	3.72	2.355	3±1	4	2.512	<5	0.78474	3.00	YES
	2.480	3.47	2.223	3±1	4	2.512	<5	0.79114	3.00	YES

Conclusion:

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

Signature:

Date: 2019-05-21

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