

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.

BR+EDR:

Antenna Type :PCB Antenna

Antenna Gain: 0 dBi

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	4.23	2.649	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	7.67	5.848	7±1	8	6.310	<5	1.97158	3.00	YES
	2.480	7.63	5.794	7±1	8	6.310	<5	1.98727	3.00	YES
$\pi/4$ -DQPSK	2.402	5.08	3.221	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	7.26	5.321	7±1	8	6.310	<5	1.97158	3.00	YES
	2.480	7.21	5.260	7±1	8	6.310	<5	1.98727	3.00	YES
8DPSK	2.402	5.49	3.540	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	7.42	5.521	7±1	8	6.310	<5	1.97158	3.00	YES
	2.480	7.41	5.508	7±1	8	6.310	<5	1.98727	3.00	YES

BLE:

Antenna Type :PCB Antenna

Antenna Gain: 0 dBi

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	-0.8	0.832	0±1	1	1.259	<5	0.39023	3.00	YES
	2.44	2.96	1.977	2±1	3	1.995	<5	0.62334	3.00	YES
	2.480	2.68	1.854	2±1	3	1.995	<5	0.62843	3.00	YES

Conclusion:

For the max result : $1.98727 \leq 3.0$ for 1-g SAR, No SAR is required.

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Signature:

Date: 2017-11-13

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