

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 : PIFA Antenna

Antenna Gain: 1.2 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	3.05	2.018	4±1	5	3.162	<5	0.98020	3.00	YES
	2.441	3.82	2.410	4±1	5	3.162	<5	0.98813	3.00	YES
	2.480	4.29	2.685	4±1	5	3.162	<5	0.99599	3.00	YES
$\pi/4$ -DQPSK	2.402	4.15	2.600	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	4.89	3.083	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	5.33	3.412	5±1	6	3.981	<5	1.25388	3.00	YES
8DPSK	2.402	4.54	2.844	5±1	6	3.981	<5	1.23400	3.00	YES
	2.441	5.27	3.365	5±1	6	3.981	<5	1.24398	3.00	YES
	2.480	5.67	3.690	5±1	6	3.981	<5	1.25388	3.00	YES

2.4G WIFI:

Antenna Type : PIFA Antenna

Antenna Gain: 1.2 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
802.11b	2.412	9.8	9.550	8.8±1	9.8	9.550	<5	2.96632	3.00	YES
	2.442	9.6	9.120	8.8±1	9.8	9.550	<5	2.98471	3.00	YES
	2.472	9.3	8.511	8.5±1	9.5	8.913	<5	2.80256	3.00	YES
802.11g	2.412	9.7	9.333	8.8±1	9.8	9.550	<5	2.96632	3.00	YES
	2.442	9.6	9.120	8.8±1	9.8	9.550	<5	2.98471	3.00	YES
	2.472	9.3	8.511	8.5±1	9.5	8.913	<5	2.80256	3.00	YES
802.11n20	2.412	9.6	9.120	8.8±1	9.8	9.550	<5	2.96632	3.00	YES
	2.442	9.6	9.120	8.8±1	9.8	9.550	<5	2.98471	3.00	YES
	2.472	9.3	8.511	8.5±1	9.5	8.913	<5	2.80256	3.00	YES
802.11n40	2.422	9.5	8.913	8.5±1	9.5	8.913	<5	2.77407	3.00	YES
	2.442	9.4	8.710	8.5±1	9.5	8.913	<5	2.78550	3.00	YES
	2.462	9.3	8.511	8.5±1	9.5	8.913	<5	2.79688	3.00	YES

Conclusion:

For the max result : $2.98471 \leq 3.0$ for 1-g SAR, No SAR is required.

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Signature:

Date: 2018-06-01

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