

RF EXPOSURE EVALUATION

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.

WIFI

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	10g SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	12.59	18.155	12±1	13	19.953	<5	6.19753	7.50	YES
	2.437	12.04	15.996	12±1	13	19.953	<5	6.22957	7.50	YES
	2.462	12.03	15.959	12±1	13	19.953	<5	6.26144	7.50	YES
802.11g	2.412	12.64	18.365	12±1	13	19.953	<5	6.19753	7.50	YES
	2.437	11.18	13.122	12±1	13	19.953	<5	6.22957	7.50	YES
	2.462	12.69	18.578	12±1	13	19.953	<5	6.26144	7.50	YES
802.11n HT20	2.412	12.62	18.281	12±1	13	19.953	<5	6.19753	7.50	YES
	2.437	11.06	12.764	12±1	13	19.953	<5	6.22957	7.50	YES
	2.462	12.81	19.099	12±1	13	19.953	<5	6.26144	7.50	YES
802.11n HT40	2.422	12.33	17.100	12±1	13	19.953	<5	6.21036	7.50	YES
	2.437	11.19	13.152	12±1	13	19.953	<5	6.22957	7.50	YES
	2.452	11.27	13.397	12±1	13	19.953	<5	6.24871	7.50	YES

BLE

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	10g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	5.62	3.648	6±1	7	5.012	<5	1.55352	7.50	YES
	2.440	4.64	2.911	5±1	6	3.981	<5	1.24373	7.50	YES
	2.480	6.08	4.055	6±1	7	5.012	<5	1.57854	7.50	YES

Note: The product does not support simultaneous launch

Conclusion:

For the max result : 6.26144 ≤ 7.5 for 10-g SAR, No SAR is required.



Signature:

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