

FCC ID: 2ACVK-1003

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.

BLE:

Antenna Type : PCB Antenna

Antenna Gain: 1.0 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	1.86	1.535	1.5±1	2.5	1.778	<5	0.55121	3.00	YES
	2.44	2.04	1.600	1.5±1	2.5	1.778	<5	0.55555	3.00	YES
	2.480	0.58	1.143	1.5±1	2.5	1.778	<5	0.56009	3.00	YES

WIFI:

Antenna Type : PCB Antenna

Antenna Gain: 1.0 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
802.11b	2.412	8.9	7.762	8±1	9	7.943	<5	2.46728	3.00	YES
	2.437	8.8	7.586	8±1	9	7.943	<5	2.48003	3.00	YES
	2.462	8.9	7.762	8±1	9	7.943	<5	2.49272	3.00	YES
802.11g	2.412	8.6	7.244	8±1	9	7.943	<5	2.46728	3.00	YES
	2.437	8.8	7.586	8±1	9	7.943	<5	2.48003	3.00	YES
	2.462	8.1	6.457	8±1	9	7.943	<5	2.49272	3.00	YES
802.11n (20MHz)	2.412	7.6	5.754	7±1	8	6.310	<5	1.95983	3.00	YES
	2.437	7.8	6.026	7±1	8	6.310	<5	1.96996	3.00	YES
	2.462	7	5.012	7±1	8	6.310	<5	1.98004	3.00	YES
802.11n (40MHz)	2.422	7.6	5.754	7±1	8	6.310	<5	1.96389	3.00	YES
	2.437	7.7	5.888	7±1	8	6.310	<5	1.96996	3.00	YES
	2.452	7.8	6.026	7±1	8	6.310	<5	1.97601	3.00	YES

Conclusion:

For the max result : $2.49272 \leq 3.0$ for 1-g SAR, No SAR is required.

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Signature:

Date: 2017-12-11

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