

FCC ID:2AZVZ-TR20

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 \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

- $f(\text{GHz})$ 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.

WIFI:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	8.13	6.50	8±1	9	7.94	<5	2.46728	3.00	YES
	2.437	9.46	8.83	8.5±1	9.5	8.91	<5	2.78264	3.00	YES
	2.462	7.5	5.62	7±1	8	6.31	<5	1.98004	3.00	YES
802.11g	2.412	7.04	5.06	7±1	8	6.31	<5	1.95983	3.00	YES
	2.437	8.37	6.87	8±1	9	7.94	<5	2.48003	3.00	YES
	2.462	6.71	4.69	7±1	8	6.31	<5	1.98004	3.00	YES
802.11n(HT 20)	2.412	7.01	5.02	7±1	8	6.31	<5	1.95983	3.00	YES
	2.437	8.21	6.62	8±1	9	7.94	<5	2.48003	3.00	YES
	2.462	6.56	4.53	6±1	7	5.01	<5	1.57280	3.00	YES
802.11n(HT 40)	2.412	6.48	4.45	6±1	7	5.01	<5	1.55675	3.00	YES
	2.437	7.87	6.12	8±1	9	7.94	<5	2.48003	3.00	YES
	2.462	6.65	4.62	6±1	7	5.01	<5	1.57280	3.00	YES

Conclusion:

For the max result : $2.78264 \leq 3.0$ for 1g SAR, SAR is not required.

Signature
2021-10-

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