

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-15000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Output Power EIRP (dBm)	Output Power EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail
802.11b	2462.00	20	28.32	679.20	0.135	1	Pass
802.11g	2457.00	20	26.06	403.65	0.080	1	Pass
802.11n_HT20	2457.00	20	26.46	442.59	0.088	1	Pass
802.11n_HT40	2442.00	20	23.58	228.03	0.045	1	Pass
802.11a	5785.00	20	33.67	2328.09	0.463	1	Pass
802.11n_HT20	5785.00	20	33.63	2306.75	0.459	1	Pass
802.11n_HT40	5755.00	20	33.6	2290.87	0.456	1	Pass
802.11ac_VHT8	5610.00	20	29.68	928.97	0.185	1	Pass

Note: 5G can't be simultaneous transmitting with 2.4G.

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