

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FCC 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	Electric Field	Magnetic Field	Power Density	Averaging Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(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	1	1.0	30

f = frequency in MHz

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^{* =} Plane-wave equipment power density



ISED Standard Applicable

This submittal(s) (test report) is intended to comply with RSS-102 issue 5 Radio frequency Radiation Exposure requirement.

This is a Mobile device, the MPE is required.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m²)	Reference Period (minutes)
0.003-10	83	90	-	Instantaneous*
0.1-10	1	0.73/ f	1	6**
1.1-10	87/ f ^{0.5}	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07/ f ^{0.25}	0.1540/ f ^{0.25}	8.944/ f ^{0.5}	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 f ^{0.3417}	$0.008335 f^{0.3417}$	$0.02619f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ f ^{1.2}
150000-300000	0.158 <i>f</i> ^{0.5}	4.21 x 10-4 f ^{0.5}	6.67 x 10-5 <i>f</i>	616000/ f ^{1.2}

F = frequency in MHz

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

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^{* =} Based on nerve stimulation (NS).

^{** =} Based on specific absorption rate (SAR)



Power Density Calculation (Worst Case)

	•		•	•			
FCC							
Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Output Power EIRP (dBm)	Output Power EIRP (mW)	Power Density (mW/cm2)	Limit (mW/cm2)	Pass / Fail
802.11a	5500.00	20	22.35	171.79	0.034	1.000	Pass
802.11n_HT20	5785.00	20	28.57	719.45	0.143	1.000	Pass
802.11n_HT40	5755.00	20	27.56	570.16	0.113	1.000	Pass
802.11n_ac80	5530.00	20	26.80	478.63	0.095	1.000	Pass

ISED			
Power Density (W/cm2)	Limit (W/cm2)	Pass / Fail	
0.342	9.425	Pass	
1.432	9.756	Pass	
1.135	9.722	Pass	
0.953	9.460	Pass	

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