

1 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.1 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 (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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1.2 Power Density Calculation (Worst Case)

FCC									ISED		
Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. output Power (dBm)	Antenna Gain (dBi)	Max. output Power EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density (W/cm ²)	Limit (W/cm ²)	Pass / Fail
LTE B2	1857.50	20	23.07	2.00	321.37	0.064	1.000	Pass	0.640	4.489	Pass
LTE B4	1732.50	20	23.27	2.00	336.51	0.067	1.000	Pass	0.670	4.280	Pass
LTE B5	846.50	20	22.54	1.00	225.94	0.045	0.564	Pass	0.450	2.623	Pass
LTE B12	713.50	20	23.16	1.00	260.62	0.052	0.476	Pass	0.519	2.334	Pass
LTE B13	784.50	20	22.10	1.00	204.17	0.041	0.523	Pass	0.406	2.491	Pass

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