

15. Maximum Permissible Exposure (MPE)

15.1. 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 §2.1093 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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15.2. Measurement Result:

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
902.25	27.778	0.59951	0.67
914.75	27.769	0.59827	0.67
927.75	27.559	0.57003	0.67

15.3. MPE Prediction

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

Maximum peak output power at antenna input	27.778	(dBm)
Maximum peak output power at antenna input	599.51493	(mW)
Duty cycle:	0.27	(%)
Maximum Pav :	1.6186903	(mW)
Antenna gain (typical):	7.71	(dBi)
Maximum antenna gain:	5.9020108	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	902.25	(MHz)
MPE limit for uncontrolled exposure at prediction	0.6015	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.0019016	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.00190mW/cm². This is below the uncontrolled exposure limit of 0.6015mW/cm² at 902.25MHz.

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