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MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.1 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	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	/	/	1.0	30		

F = frequency in MHz

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^{* =} Plane-wave equipment power density



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Maximum Permissible Exposure (MPE) Evaluation

2.4GHz mode (Average): Tune up tolerance ± 0.34dBm

Channel	Frequency (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
1	2406.00	12.34	17.140	1000
10	2442.00	12.01	15.885	1000
18	2474.00	11.73	14.894	1000

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 densityP = 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

Max. output power including tune-up tolerancel:	12.34	(dBm)
Max. output power including tune-up tolerancel:	17.139573	(mW)
Duty cycle:	1.88	(%)
Maximum Pav :	0.322224	(mW)
Peak Antenna gain (Maximum):	1.16	(dBi)
Peak Antenna gain (linear):	1.3061709	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2406	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm^2)
Power density at predication frequency at 20 (cm)	0.000084	(mW/cm^2)
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Measurement Result

The predicted power density level at 20 cm is 0.000084 mW/cm2.

This is below the uncontrolled exposure limit of 1 mW/cm2 at 2406MHz.

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