

14 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

14.1 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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14.2 Maximum Permissible Exposure (MPE) Evaluation

CH	Frequency (MHz)	Peak Power Output(dBm)	Required Limit
0	2402	18.58	1 Watt = 30 dBm
19	2440	15.90	1 Watt = 30 dBm
38	2476	15.61	1 Watt = 30 dBm

CH	Frequency (MHz)	Average Power Output(dBm)	Required Limit
0	2402	15.65	1 Watt = 30 dBm
19	2440	12.93	1 Watt = 30 dBm
38	2476	12.88	1 Watt = 30 dBm

**Note: Measured by power meter, cable loss as 14.2dB that offsets on the power meter.*

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

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Maximum peak output power at antenna input terminal:	18.58	(dBm)
Maximum peak output power at antenna input terminal:	72.11074792	(mW)
Duty cycle:	61.3	(%)
Maximum Pav :	44.20388847	(mW)
Antenna gain (typical):	2.5	(dBi)
Maximum antenna gain:	1.77827941	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2402	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.015646	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.015646mW/cm². This is below the uncontrolled exposure limit of 1mW/cm² at 2402MHz.

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