

1 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 (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

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1.2 Maximum Permissible Exposure (MPE) Evaluation

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)
2402	6.87	0.0049	1
2442	7.4	0.0055	1
2480	7.72	0.0059	1

MPE Prediction (BT4.0 mode)

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 average output power at antenna input terminal:	7.72	(dBm)
Maximum average output power at antenna input terminal:	5.915616342	(mW)
Duty cycle:	64.8	(%)
Maximum Pav :	3.833319389	(mW)
Antenna gain (Maximum):	2.13	(dBi)
Antenna gain (linear):	1.633051948	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2480	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm) distance	0.0012460	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.0012460 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2480MHz.

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1.3 Maximum Permissible Exposure (MPE) Evaluation –Maximum tune up power

Max. Rated Avg. Power + Max. Tolerance (dBm): 8dBm

MPE Prediction (BT4.0 mode)

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 average output power at antenna input	8.00	(dBm)
Maximum average output power at antenna input	6.30957344	(mW)
Duty cycle:	64.8	(%)
Maximum Pav :	4.08860359	(mW)
Antenna gain (Maximum):	2.13	(dBi)
Antenna gain (linear):	1.63305195	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2480	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.0013290	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.0013290 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2480MHz.

~ End of Report ~

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