

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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 | 1 | / | F/1500 | 30 | | |
| 1500-15000 | / | / | 1.0 | 30 | | |

F = frequency in MHz

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^{* =} Plane-wave equipment power density



Maximum Permissible Exposure (MPE) Evaluation

3M EDR mode (Average):

| СН | Freq. (MHz) | Max. Output include tune up tolerance Power (dBm) | Output Power (mW) | Limit (mW) |
|----|----------------|---|-------------------------|---------------|
| 0 | 2402 | 5.75 | 3.758 | 125 |
| 39 | 2441 | 4.51 | 2.825 | 125 |
| 78 | 2480 | 3.78 | 2.388 | 125 |

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

| Max. output power including tune-up tolerancel: | 5.75 | (dBm) |
|---|-----------|-----------------------|
| Max. output power including tune-up tolerancel: | 3.758374 | (mW) |
| Duty cycle: | 77 | (%) |
| Maximum Pav : | 2.893948 | (mW) |
| Peak Antenna gain (Maximum): | 0.67 | (dBi) |
| Peak Antenna gain (linear): | 1.1668096 | (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) | 0.000672 | (mW/cm ²) |
| | • | • |

Measurement Result

The predicted power density level at 20 cm is 0.000672 mW/cm2.

This is below the uncontrolled exposure limit of 1 mW/cm2 at 2402MHz.

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