

RF Exposure Statement

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range	Electric field	Magnetic field	Power density	Averaging time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)	(minutes)
0.3 - 1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/ f²) 0.2 f/1500 1.0	30 30 30 30 30 30

F = frequency in MHz

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

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

- 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

^{* =} Plane-wave equivalent power density



2-1. Chip Antenna (Internal)

Max Peak output Power at antenna input terminal (dBm)	4.92
Max Peak output Power at antenna input terminal (mW)	3.1
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	2470.00000
Antenna Gain(typical) (dBi)	3.00000
Antenna Gain(numeric)	1.99526
Power density at prediction frequency (mW/cm²)	0.001233
MPE limit for uncontrolled exposure at prediction frequency (mW/cm²)	1.00000

2-2. Dipole Antenna (External)

Max Peak output Power at antenna input terminal (dBm)	4.92
Max Peak output Power at antenna input terminal (mW)	3.1
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	2470.00000
Antenna Gain(typical) (dBi)	3.37700
Antenna Gain(numeric)	2.17621
Power density at prediction frequency (mW/cm²)	0.001345
MPE limit for uncontrolled exposure at prediction frequency (mW/cm²)	1.00000

FCC ID: X6VMFA-200



3. RESULTS

The power density level at 20 cm is 0.001233 mW/cm^2 , which is below the uncontrolled exposure limit of 1.0000 mW/cm² at **Chip Antenna (Internal)**

The power density level at 20 cm is 0.001345 mW/cm², which is below the uncontrolled exposure limit of 1.0000 mW/cm² at **Dipole Antenna (External)**