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 (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (Minutes)
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 - 100.000	-	-	1	30

F = frequency in MHz
* = Plane-wave equivalent power density

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

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Max Peak Output Power at Antenna Input Terminal (dBm)	-6.94
Max Peak Output Power at Antenna Input Terminal (mW)	0.2023
Prediction Distance (cm)	20.0000
Prediction Frequency (MHz)	2402.0000
Antenna Gain (typical) (dBi)	-1.0
Antenna Gain (numeric)	0.794
Power Density at Prediction Frequency (mW/cm^2)	0.0000319
MPE limit for uncontrolled exposure at prediction frequency (mW/cm^2)	1.0000

3. Results

1. The power density level at 20 cm is **0.0000319 mW/cm^2**, which is below the uncontrolled exposure limit of **1.0 mW/cm^2**

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