

FCC TEST REPORT

XNXAZBOXPREMIUMHD

Radio Frequency Exposure

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this Chapter.

Limit

Limits for general population/Uncontrolled exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time $ E ^2$, $ H ^2$ or S (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	Ò.2	30
300-1500			f/1500	30
1500-100 000			1.0	30

f = frequency in MHz

MPE Prediction

Predication 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 (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

Maximum peak output power at antenna input : 19.47 dBm (88.512 mW)

Prediction distance : 20 cm

Predication frequency : 2 462 MHz

Antenna gain(Max) : 2.97 dBi (1.98152703 numeric)

Power density at predication frequency at 20

cm

: 0.03489234 mW/cm²

MPE Limit for : 1.0 mW/cm²

Test Result

The power density level at 20 cm is 0.03489234 mW/cm²

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^{*}Plane-wave equivalent power density