

RF EXPOSURE

VERIWAVE

WF1101

FCC ID: YATA001Y10

IC: 8936A-A001Y10

VeriWave, Inc.

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0.1 RF Exposure Information

47CFR 1.1310. Limits for maximum permissible exposure for general population/uncontrolled exposure.

$$\text{Power Density} = \frac{P+G_T}{4\pi r^2}$$

To solve for a distance corresponding to a fixed power density

$$r = \sqrt{\frac{P+G_T}{4\pi}}$$

Peak power density @ 20cm.

The calculations are performed, not for measured power, but maximum design power, i.e. a worst-case calculation.

Freq	Peak Power	Antenna Gain	Power Density	Limit	Margin
MHz	dBm	dB	mW/cm^2	mW/cm^2	
2.442	17.0	2.1	0.016	1.0	0.84
5150	16.1	2.6	0.014	1.0	0.86
5250	17.0	2.6	0.018	1.0	0.82
5875	17.0	2.5	0.018	1.0	0.82

Calculations for the distance at which the MPE is reached.

Freq	Peak Power	Antenna Gain	Distance	Limit	Margin
MHz	dBm	dB	cm	cm	cm
2442	17.0	2.1	1.23	20.0	18.77
5150	16.1	2.6	1.22	20.0	18.78
5875	17.0	2.5	1.25	20.0	18.75