

# Minimum Safe Distance to Antennas

## Based upon FCC OET Bulletin 65 and other FCC Sources

### INPUT DATA

Frequency MHz	1850
Pout Watts	1.0000
Duty Cycle Percent	100.0%
Ant. Gain dBi	15.00
Coax Loss dB	0.00

### RESULTS

Min. Distance Inches	19.75
Min. Distance Centimeters	50.16
ERP (Watts)	19.2822
EIRP (Watts)	31.6228

### REFERENCE DATA

Antenna Gain (non-log)	31.62
Coax loss (non-log)	1.00
Calculated limit (mw/cm <sup>2</sup> )	1.00
FCC Limit (mw/cm <sup>2</sup> )	1.00

#### Notes:

- (1) Valid only between 300 MHz - 100,000 MHz
- (2) Calculations are sufficient for determining antenna safe distance for mobile devices provided that calculated ERP < 1.5 watts for frequencies equal to or below 1.5GHz, and ERP < 3 watts for frequencies above 1.5 GHz.
- (3) Mobile antenna distances shall be no less than 8 inches.
- (4) No predefined distance limitations for fixed outside (building) equipment (see #5).
- (5) Indoor building antenna criteria is same as for mobile antennas.

### SUMMARY

For Amplifier Model Number:	2B4310
Mobile or Building?	Building
Outside/Inside Antenna?	Outside
Antenna Type:	Yagi 1900 MHz
Safe Distance (inches):	20
Signature:	
Date:	1/3/2008