

Alvarion MPE Calculations								
FCC ID: LKT-IF-900								
						Calculate mW/cm2 here. Enter frequency		
RF Hazard Distance Calculation						Calculation of Limits from 1.1310 Table 1		
mW/cm2 from Table1:		0.60				F(MHz)	Actual F, MHz	
						0.3-3	0.5	
Max RF Power	TX Antenna	MPE	Cable	Model	POWER INDEX	3.0 - 30.0	5	
P, dBm	G, dBi	Safe Distance, cm				30.0-300	55	
(ant. Term)						300-1500	902	
						1500-100000	5555	
22.8	14.6	27.0	1ftSMA/N cable	IF-900	14			
22.5	14.6	26.0	10 ft LMR400	IF-900	14			
24.5	14.6	32.8	100ft LMR 400	IF-900	15	Enter P(watts)	Equivalent dBm	Enter dBm
Basis of Calculations:						4	36.0	36.0
$E^2/3770 = S, \text{ mW/cm}^2$								
$E, \text{ V/m} = (P_{\text{watts}} \cdot G_{\text{gain}} \cdot 30)^{.5} / d, \text{ meters}$								
$d = ((P_{\text{watts}} \cdot G \cdot 30) / 3770 \cdot S)^{.5}$						$P_{\text{watts}} \cdot G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}}) / 10}$		
NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm,								
even if calculations indicate MPE distance is less								

[illegible]