

Alvarion Ltd										
FCC ID: LKT-EXTR-CPE-50										
Part 90						Calculate mW/cm2 here. Enter frequency in MHz:				
Part 15 DTS, UNII										
RF Hazard Distance Calculation						Calculation of Limits from 1.1310 Table 1				
							Controlled		Uncontrolled	
							Ave 6 min		Ave 30 min	
mW/cm2 from Table1:			1.00			F(MHz)	Actual F, MHz		Occ, mW/c2	
							0.3-3		0.5	
Max RF Power TX Antenna							3.0 - 30.0		100.0	
P, dBm G, dBi							30.0-300		180.0	
MPE distance cm							300-1500		3.0	
S, mW/cm@							1500-100000		5.0	
at 20 cm							5555		1.0	
Comment							5		0.2	
							902		0.60	
29.7 17.00 61.3 9.39 max P2P eirp 5.8 GHz							5		1.0	
7.2 17.00 4.6 0.05 max eirp UNII 5 MHz EBW										
9.9 17.00 6.2 0.10 max eirp UNII 10MHz EBW										
23.6 17.00 30.1 2.26 Part 90 5 MHz EBW							Enter P(mW)		Equivalent dBm	
23.4 17.00 29.7 2.20 Part 90 10MHz EBW									Enter dBm	
									Equivalent Watts	
Basis of Calculations:							895.4		29.52	
									29.52	
									895.4	
E^2/3770 = S, mW/cm2										
E, V/m = (Pwatts*Ggain*30)^.5/d, meters										
d = ((Pwatts*G*30)/3770*S)^.5 Pwatts*Ggain = 10^(PdBm-30+GdBi)/10										
S@20cm = 20 log (MPE dist/20cm)										
NOTE: For mobile or fixed location transmitters, minimum separation distance is for FCC compliance is 20 cm, even if calculations indicate MPE distance is less										