

Alvarion MPE Calculation						
FCC ID: LKT-ASU-900						
RF Hazard Distance Calculation						
mW/cm2 from Table1:		0.60				
Max RF Power	TX Antenna	MPE	Cable	Model	POWER INDEX	
P, dBm	G, dBi	Safe Distance, cm				
23.3	14.6	28.6	1ftSMA/N cable	900CX	22 dBm	
22.4	14.6	25.8	5ft LMR400	900CX	23 dBm	
20.6	14.6	21.0	100ft LMR 400	900CX	24 dBm	
24.5	14.6	32.8	1ftSMA/N cable	SUI	24/24*	
23.6	14.6	29.6	10ft LMR 400	SUI	25/24*	
					*attn/pwr	
Basis of Calculations:						
$E^2/3770 = S$, mW/cm2						
E , V/m = $(P_{watts} * G_{gain} * 30)^{.5} / d$, meters						
$d = ((P_{watts} * G * 30) / 3770 * S)^{.5}$		$P_{watts} * G_{gain} = 10^{(Pd_{Bm} - 30 + Gd_{Bi}) / 10}$				
NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less						