For 1 dBi antenna

M PE C A	CULATION for	GALIRONICSWN	G-WAP-104
		1	
rom uarusea I	the MPECabula	tons:	
$E^2/3770 = S_m$	W/cm2		
Pwatts*Ggain=	10^(PdBm -30+Gd	Bi)/10)	
E,V/m = (Pwatts	s*Ggain*30)^ 5/d,	m eters	
d = ((Pwatts*G*3))	30)/3770*S))^0 <i>5</i>	(A )	
Since			
$S (m W /cm^2) =$	1.00	from 1.1310 Table 1	
P (dBm )=	20.7	EUToutputpower	
G (dBi)=	1.0	EUTantenna gain	
Substitute these	param eters into t	he A above, we hav	<i>r</i> e
MPE safe distance d (cm ) =		3.4	
M PE sa fe dist	mile a (cm ) =		

For 8 dBi antenna

MPE CAL	<b>CULATION</b> for	<b>GALTRONICS W</b>	NG-WAP-104
		Г	
Farmular used in	a the MDE Colouis	4:	
Formular used in	n the MPE Calcula	tions:	
FA0/0770 0	A//0		
E^2/3770 = S, m			
	10^(PdBm-30+Gd	· ·	
E, V/m = (Pwatts	*Ggain*30)^.5/d, r	neters	
d = ((Pwatts*G*3))	0)/3770*S))^0.5 -	(A)	
Since			
S (mW/cm <sup>2</sup> ) =	1.00	from 1.1310 Table 1	
P (dBm) =	20.7	EUT output power	
G (dBi) =	8.0	EUT antenna gain	
Substitute these	parameters into t	he A above, we have	9
MPE safe distance d (cm) =		7.7	
		n transmitters, mini	
distance is 20 cr	n, even if calculat	ions indicate MPE d	istance is less