

Input-Output									
FCC ID: MCV-FSU101									
217-219 MHz Transmitter with Bluetooth				Calculate mW/cm2 here. Enter frequency in MHz:					
RF Hazard Distance Calculation				Calculation of Limits from 1.1310 Table 1					
									Control
									Ave 6 m
mW/cm2 from Table1:		0.20				F(MHz)	Actual F, MHz		Occ, m
						0.3-3	0.5		100
Max RF Power	TX Antenna	MPE distance	S, mW/cm@	Comment	MPE Percentage	3.0 - 30.0	5		180
P, dBm	G, dBi	cm	at 20 cm			30.0-300	100		1.0
						300-1500	599		2.0
31.52	2.20	30.6	0.47	Peak (VHF)	n/a	1500-100000	5555		5.0
14.5	2.20	4.3	0.01	2% duty cycle	5%				
3.5	0.50	1.0	0.002	Peak (BT)	0.20%				
				TOTAL	5.20%	Enter P(mW)	Equivalent dBm	Enter dBm	Equivalent
Basis of Calculations:						895.4	29.52	29.52	
E^2/3770 = S, mW/cm2									
E, V/m = (Pwatts*Ggain*30)^.5/d, meters									
d = ((Pwatts*G*30)/3770*S)^0.5				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									