

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				
									Controlled	Uncontrolled
									Ave 6 min	Ave 30 min
mW/cm2 from Table1:		0.20				F(MHz)	Actual F, MHz		Occ, mW/c2	Gen, mW/cm2
						0.3-3	0.5		100.0	100.0
Max RF Power	TX Antenna	MPE distance	S, mW/cm@	Comment	MPE Percentage	3.0 - 30.0	5		180.0	36.0
P, dBm	G, dBi	cm	at 20 cm			30.0-300	100		1.0	0.2
						300-1500	599		2.0	0.40
31.52	2.20	30.6	0.47	Peak (VHF)	n/a	1500-100000	5555		5.0	1.0
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 Watts	
Basis of Calculations:						895.4	29.52	29.52	895.4	
$E^2/3770 = S$, mW/cm2										
E , V/m = $(P_{watts} * G_{gain} * 30)^{.5} / d$, meters										
$d = ((P_{watts} * G_{gain} * 30) / (3770 * S))^{.5}$										
$S@20cm = 20 \log (MPE \text{ dist} / 20cm)$										
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										