

Electromagnetic Emission Test

E U T	Manufacturer: Tactical Tech Model# J2E FCC ID# IP975XVI Serial # 13000 Mode: TRANSMITTER ON			Date: 9/1/05 Test Instruments: RSI #32.1,33.1,75, 80, 91,391, 501, 502, 503, 708			Test Code RE Technician			
				Frequency Range: 170.25MHz-1.7025MHz.			Engineer			
	Temperature: 80° F Humidity: 37%		Additional Info:					Test Spec: FCC Part 15 Sub.C		
	Radiated Distance: 3 meter Antenna: Bicon /		<input checked="" type="checkbox"/> HORIZ. <input type="checkbox"/> BB <input checked="" type="checkbox"/> NB <input checked="" type="checkbox"/> VERT. <input type="checkbox"/> H <input checked="" type="checkbox"/> E		Conducted Line: Function:					<input type="checkbox"/> BB <input type="checkbox"/> NB
Log.P./Horn										
FREQ.	IND. Level	ANT. Cable loss		Generator		ERP @3 M		Remarks		
										MHz
170.25	97.5	-2.6	3.2	+26	-4.74	63.97		Vertical		
340.5	38.2	+2.8	4.3	-39	.66	.000045				
510.75	12.3	+5.9	5.1	-67	+3.76	.00014uW				
170.95	79.4							Horizontal		
340.5	16.8									
510.75	0.6									

The only harmonics that were detected @ 3 meters was the second and third harmonic of the Fundamental frequency 170.250 Mhz. The substitution method was done on all three frequencies in the vertical plane. The IND. Level was the measured power @ 3 meters with the EUT transmitting into its antenna. The EUT was then replaced with the a substitution antenna driven by a RF signal generator to obtain the same IND. Level from the transmitter. The formula for the ERP (dBm) = Signal generator – cable loss + dbd antenna.