

4.0 SYSTEM TEST CONFIGURATION

The EUT was configured for testing by connecting a monopole test antenna to a signal generator. The signal generator provided an indirect coupling of the transceivers input signal. One lower, middle and upper frequency within the band listed below were entered on the signal generator with the RF amplitude output set at -60dBm. The audio input port of EUT was connected to a microphone. An Alinco AC adaptor was connected to the DC power jack. The EUT was set in the AC charging unit during the test. The auxiliary service port was connected via a serial cable to the laptop computer's auxiliary serial port.

TABLE 1: CHANNEL FREQUENCY

<i>RECEIVER BANDS</i>	<i>FREQUENCY (MHz)</i>
76MHz to 174MHz	Lower 76 Middle 125 Upper 174
174MHz to 520MHz	Lower 174 Middle 347 Upper 520
520MHz to 824MHz	Lower 520 Middle 672 Upper 824
850MHz to 869MHz	Lower 850 Middle 859.5 Upper 869
895MHz to 960MHz	Lower 895 Middle 947.5 Upper 960

4.1 JUSTIFICATION

The EUT was tested as a scanning receiver per FCC rules and regulations. The FCC does not regulate the transmitter section of the Transceiver, since it is an Amateur transceiver and its operating frequency falls under the amateur band.

TABLE 6: CONDUCTED EMISSIONS: (V BAND 895-960 MHz)

Neutral Side (L1)

EMISSION FREQUENCY (MHz)	TEST DETECTOR (1)	ANALYZER READING (dBuV)	SITE CORRECTION FACTOR (dBuV)	CORRECTED EMISSION LEVEL (dBuV)	FCC LIMIT (dBuV)	FCC MARGIN (dBuV)
0.451	Pk	42.7	0.5	43.2	48.0	-4.8
0.625	Pk	35.0	0.5	35.5	48.0	-12.5
0.690	Pk	36.8	0.5	37.3	48.0	-10.7
5.892	Pk	24.4	1.7	26.1	48.0	-21.9
12.312	Pk	19.0	2.2	21.2	48.0	-26.8
23.691	Pk	22.7	3.0	25.7	48.0	-22.3

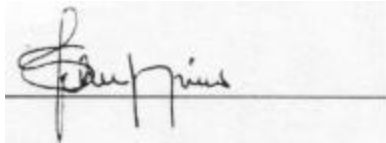
Hot Side (L2)

0.452	Pk	41.8	0.4	42.2	48.0	-5.8
0.663	Pk	36.7	0.5	37.2	48.0	-10.8
1.004	Pk	25.6	0.6	26.2	48.0	-21.8
7.147	Pk	27.7	1.8	29.5	48.0	-18.5
8.055	Pk	23.7	2.0	25.7	48.0	-22.3
15.028	Pk	26.0	2.7	28.7	48.0	-19.3

Input frequency = 947.5 MHz

⁽¹⁾Pk = Peak; QP = Quasi-Peak; Av = Average

TEST PERSONNEL:



Signature:

Date: 2/17/99

Typed/Printed Name: K. Franck Schuppis

TABLE 17: RADIATED EMISSIONS: 895 MHz

(Temperature: 46°F Degree, Humidity: 29%)

EMISSION FREQUENCY (MHz)	ANTENNA POLARITY (H/V)	TURNTABLE AZIMUTH (deg)	ANTENNA HEIGHT (m)	ANALYZER READING (dBuV)	SITE CORRECTION FACTOR (dB/m)	EMISSION LEVEL (dBuV/m)	FCC LIMIT (dBuV/m)	FCC MARGIN (dB)
855.850	H	180	1.0	44.0	-2.7	41.3	46.0	-4.7

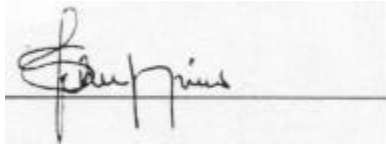
TABLE 18: RADIATED EMISSIONS: 947.5 MHz

(Temperature: 46°F Degree, Humidity: 29%)

EMISSION FREQUENCY (MHz)	ANTENNA POLARITY (H/V)	TURNTABLE AZIMUTH (deg)	ANTENNA HEIGHT (m)	ANALYZER READING (dBuV)	SITE CORRECTION FACTOR (dB/m)	EMISSION LEVEL (dBuV/m)	FCC LIMIT (dBuV/m)	FCC MARGIN (dB)
908.350	H	135	1.0	42.0	-1.4	40.6	46.0	-5.4

**All readings are quasi-peak, unless stated otherwise. See Appendix B for Radiated Test Methodology.*

TEST PERSONNEL:



Signature:

Date: February 19, 1999

Typed/Printed Name: K. Franck Schuppius