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TEST REPORT:

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PAGE	3MOD CHARACTERISTICS AND OCCUPIED BANDWIDTH
PAGE	4OCCUPIED BANDWIDTH PLOT
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	RADIATION EMISSIONS
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EXHIBIT CONTAINING:

EXHIBIT 1FCC ID LABEL SAMPLE & LOCATION
EXHIBIT 2EXTERNAL PHOTOS
EXHIBIT 3INTERNAL PHOTOS
EXHIBIT 4SCHEMATIC
EXHIBIT 5USER'S MANUAL
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EXHIBIT 7TUNING PROCEDURE
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GENERAL INFORMATION

2.1033(c)(1)(2) HITEC RCD INC.will sell the FCCID: IFHR3F75B Radio Control transmitter in quantity, for use under FCC RULES PART 95 SUBPART C.

HITEC RCD INC. 1211 PAINE STREET POWAY, CA 92064

- 2.1033(c)(3) Instruction manual is included as exhibit #5.
- 2.1033 (4) Type of Emission: 9K2F1D 95.631(b)(1)

Bn = 2M + 2DK

M = 4,800 Bits per second D = 2.2KHz (Peak Deviation)

K = 1

Bn = 2(4800/2) + 2(2.2K)(1) = 4.8K + 4.4K = 9.2kALLOWED AUTHORIZED BANDWIDTH = 20.00KHz.

- 95.631(b) Authorized Bandwidth 20KHz for F1D
- 2.1033(c)(5) Frequency Range: 75.41 75.99 MHz 95.623(a)
 - (6) Power Range and Controls: There are NO user Power controls.
 - (6) Function of each electron tube or semiconductor
 device or other active circuit device:
 See Exhibit #6.
 - (7) Maximum Output Power Rating: .1 Watts ERP.
 - (8) DC Voltages and Current into Final Amplifier:

FINAL AMPLIFIER ONLY

Vce = 12.6Volts DC
Ice = 0.039A.
Pin = 0.5Watts

2.1033(c)(9) Tune-up procedure. The tune-up procedure is included as Exhibit #7.

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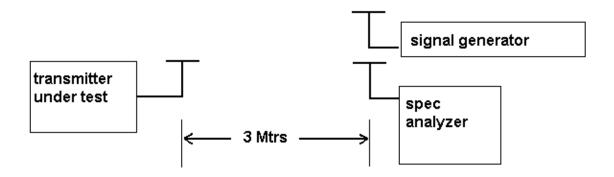
- 2.1033(c)(10) Complete Circuit Diagrams: The circuit diagram is included as part of Exhibit # 4.
 - (10) Description of all circuitry and devices provided for determining and stabilizing frequency is given in PAGES 37-38 of this report. The crystal specifications are included as EXHIBT #6.
- 2.1033(c)(11) The Equipment identification is shown as Exhibit #1.
- 2.1033(c)(12) Photographs of the equipment are shown as Exhibits No. 2-3.
- 2.1033(c)(13) Equipment employing Digital modulation. N/A.
- 2.1033(c)(14) The data required by 2.1046-2.1057 follows;
- 2.1046 RF power is measured by the ERP METHOD.

 There is no provisions to limit the power.

 With a nominal battery voltage of 12.6 VDC, and the transmitter properly adjusted the RF output measures:

Po = .1 Watts

2.1046 RF power output.



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2.1047 Modulation characteristics:

AUDIO FREQUENCY RESPONSE

The Voice is NOT allowed in this band.

2.1049 Occupied bandwidth: 95.635(b)

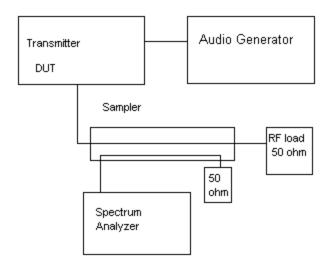
At least 25dB on any frequency removed from the center of the authorized bandwidth by more that 50% up to and including 100% of the authorized bandwidth. At least 35dB on any frequency removed from the center of the authorized bandwidth by more that 100% up to and including 250% of the authorized bandwidth. At least 43+log10(T) on any frequency removed from the center of the authorized bandwidth by more that 250%. At least 45dB on any frequency removed from the center of the aurhorized bandwidth by more that 100% up to and including 125% of the authorized bandwidth. At least 55dB on any frequency removed from the center of the authorizized bandwidth by more that 125% up to and including 250% of the authorized bandwidth. At least 56+log10(T) on any frequency removed from the center of the authorized bandwidth by more that 250%.

Radiotelephone transmitter with modulation limiter.

Test procedure diagram

OCCUPIED BANDWIDTH MEASUREMENT

Occupied BW Test Equipment Setup



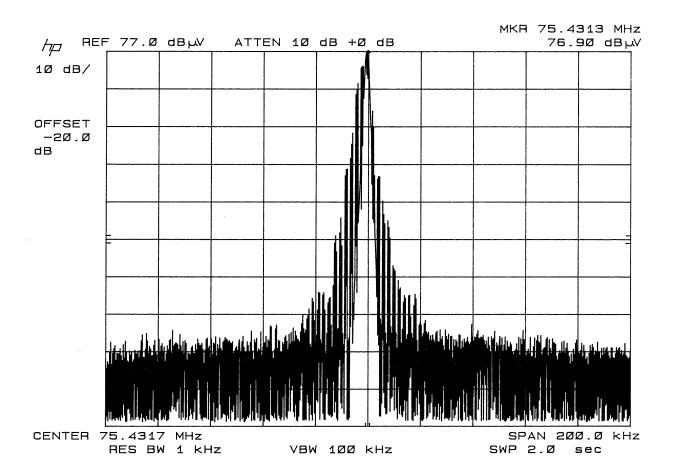
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OCCUPIED BANDWIDTH PLOT



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2.1051 SPURIOUS EMISSIONS AT ANTENNA TERMINALS.

NOT APPLICABLE NO antenna port This HUIT has

NOT APPLICABLE, NO antenna port. This UUT has a

permanently attached antenna.

2.1053 UNWANTED RADIATION:

95.635(1)(3)(7)(10)(11)(12)

REQUIREMENTS:

At least $56 + 10\log(T)$ on any frequency removed from the center of the authorized bandwidth by more than 250%.

 $56 + 10\log(0.1) = 46.00dB$

TEST DATA:

Tuned	Emission	ATTN	dBm
Frequency	Frequency	dB	
MHz	MHz		
75. 5	75.50	00.0	10.39
75. 5	150.90	77.11	-67
75. 5	150.90	64.51	-54
75. 5	226.40	79.85	-70
75. 5	226.40	74.25	-64
75. 5	301.90	89.53	-79
75. 5	301.90	79.73	-69
75. 5	377.40	91.68	-81

METHOD OF MEASUREMENT: The procedure used was C63.4-1992 with the unit. The unit was operating into its permanently attached antenna at a height of four feet. The spectrum was scanned from 30 to at least the tenth haromonic of the fundamental using a HP model 8566B spectrum analyzer, an Eaton model 94455-1 Biconical Antenna, ElectroMetrics antennas models TDA, TDS-25-1, TDS-25-2 & RGA 180.

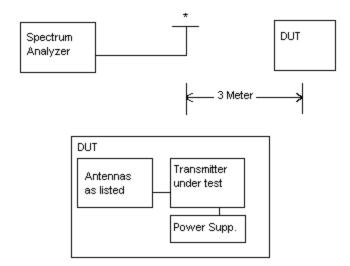
Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 849 N.W. State Road 45 Newberry, FL 32669.

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2.1055(a)(1) Frequency stability: 95.623(b)

Temperature and voltage tests were performed to verify that the frequency remains within the .002%, 20 ppm specification limit. The test was conducted as follows:

The transmitter was placed in the temperature chamber at 25 degrees C and allowed to stabilize for one hour. The transmitter was keyed ON for one minute during which four frequency readings were recorded at 15 second intervals. The worse case number was taken for temperature plotting. The assigned channel frequency was considered to be the reference frequency was considered to be the reference frequency was considered to be the reference frequency. The temperature was then reduced to -30 degrees C afer which the transmitter was again allowed to stabilize for one Hour. The transmitter was keyed ON for one minute, and again freq-Uency readings were noted at 15 second intervals. The worst case Number was recorded for temperature plotting. This procedure was Repeated in 10 degree increments up to +50 degrees C.

Readings were also taken at plus and minus 15% of the battery voltage of 12.0 VDC.

MEASUREMENT DATA:

Assigned Frequency (Ref. Frequency): 75.431 023

TEMPERATURE °C	FREQUENCY MHz	PPM	
REFERENCE	75.431 023	00.00	
-30	75.4322 498	16.26	
-20	75.432 362	17.75	
-10	75.4322 733	16.57	
0	75.432 055	13.68	
+10	75.431 666	8.52	
+20	75.4312 684	3.25	
+30	75.4308 352	- 2.49	
+40	75.4304 085	- 8.15	
+50	75.4300 987	-12.26	
20c 85% BATT.End-Point 12V/dc	75.4310 001 75.431 025	- 0.31 0.02	

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -12.26 to +16.26ppm. The maximum frequency variation with voltage was +0.02ppm.

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EMC Equipment List

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
X	3-Meter OATS	TEI	N/A	N/A	Listed 12/22/99	12/22/02
	3/10-Meter OATS	TEI	N/A	N/A	Listed 3/26/01	3/26/04
	Receiver, Beige Tower Spectrum Analyzer (Tan) RF Preselector	HP HP	8566B Opt 462 85685A	3138A07786 3144A20661 3221A01400	CAL 8/31/01 CAL	8/31/03 8/31/03
	(Tan) Quasi-Peak Adapter (Tan)	HP	85650A	3303A01690	8/31/01 CAL 8/31/01	8/31/03
X X	Receiver, Blue Tower Spectrum Analyzer (Blue)	HP	8568B	2928A04729 2848A18049	CHAR 10/22/01	10/22/03
X	RF Preselector (Blue)	HP	85685A	2926A00983	CHAR 10/22/01	10/22/03
X	Quasi-Peak Adapter (Blue)	HP	85650A	2811A01279	CHAR 10/22/01	10/22/03
X	Biconnical Antenna	Electro-Metrics	BIA-25	1171	CAL 4/26/01	4/26/03
	Biconnical Antenna	Eaton	94455-1	1096	CAL 10/1/01	10/1/03
	Biconnical Antenna	Eaton	94455-1	1057	CHAR 3/15/00	3/15/02
	BiconiLog Antenna	EMCO	3143	9409-1043		
X	Log-Periodic Antenna	Electro-Metrics	LPA-25	1122	CAL 10/2/01	10/2/03
	Log-Periodic Antenna	Electro-Metrics	EM-6950	632	CHAR 10/15/01	10/15/03
	Log-Periodic Antenna	Electro-Metrics	LPA-30	409	CHAR 10/16/01	10/16/03
	Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	152	CAL 3/21/01	3/21/04
	Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	153	CHAR 11/24/00	11/24/03
	Double-Ridged Horn Antenna	Electro-Metrics	RGA-180	2319	CAL 12/19/01	12/19/03

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	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
	Horn Antenna	Electro-Metrics	EM-6961	6246	CAL 3/21/01	3/21/03
	Horn Antenna	ATM	19-443-6R	None	No Cal Required	
	Passive Loop Antenna	EMC Test Systems	EMCO 6512	9706-1211	CHAR 7/10/01	7/10/03
	Line Impedance Stabilization	Electro-Metrics	ANS-25/2	2604	CAL 10/9/01	10/9/03
	Line Impedance Stabilization	Electro-Metrics	EM-7820	2682	CAL 3/16/01	3/16/03
	Termaline Wattmeter	Bird Electronic Corporation	611	16405	CAL 5/25/99	5/25/01
	Termaline Wattmeter	Bird Electronic Corporation	6104	1926	CAL 12/12/01	12/12/03
	Oscilloscope	Tektronix	2230	300572	CHAR 2/1/01	2/1/03
	Temperature Chamber	Tenney Engineering	TTRC	11717-7	CHAR 1/22/02	1/22/04
	AC Voltmeter	HP	400FL	2213A14499	CAL 10/9/01	10/9/03
	AC Voltmeter	HP	400FL	2213A14261	CHAR 10/15/01	10/15/03
	AC Voltmeter	HP	400FL	2213A14728	CHAR 10/15/01	10/15/03
X	Digital Multimeter	Fluke	77	35053830	CHAR 1/8/02	1/8/04
	Digital Multimeter	Fluke	77	43850817	CHAR 1/8/02	1/8/04
	Digital Multimeter	HP	E2377A	2927J05849	CHAR 1/8/02	1/8/04
	Multimeter	Fluke	FLUKE-77-3	79510405	CAL 9/26/01	9/26/03
	Peak Power Meter	HP	8900C	2131A00545	CHAR 1/26/01	1/26/03
	Digital Thermometer	Fluke	2166A	42032	CAL 1/16/02	1/16/04
	Thermometer	Traulsen	SK-128		CHAR 1/22/02	1/22/04

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	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
X	Temp/Humidity gauge	EXTech	44577F	E000901	CHAR 1/22/02	1/22/04
	Frequency Counter	HP	5352B	2632A00165	CAL 11/28/01	11/28/03
	Power Sensor	Agilent Technologies	84811A	2551A02705	CAL 1/26/01	1/26/03
	Service Monitor	IFR	FM/AM 500A	5182	CAL 11/22/00	11/22/02
	Comm. Serv. Monitor	IFR	FM/AM 1200S	6593	CAL 5/12/02	5/12/04
	Signal Generator	HP	8640B	2308A21464	CAL 11/15/01	11/15/03
	Modulation Analyzer	HP	8901A	3435A06868	CAL 9/5/01	9/5/03
	Near Field Probe	HP	HP11940A	2650A02748	CHAR 2/1/01	2/1/03
	BandReject Filter	Lorch Microwave	5BR4-2400/ 60-N	Z1	CHAR 3/2/01	3/2/03
	BandReject Filter	Lorch Microwave	6BR6-2442/ 300-N	Z1	CHAR 3/2/01	3/2/03
	BandReject Filter	Lorch Microwave	5BR4-10525/ 900-S	Z1	CHAR 3/2/01	3/2/03
	High Pas Filter	Microlab	HA-10N		CHAR 10/4/01	10/4/03
	Audio Oscillator	HP	653A	832-00260	CHAR 3/1/01	3/1/03
	Frequency Counter	HP	5382A	1620A03535	CHAR 3/2/01	3/2/03
	Frequency Counter	HP	5385A	3242A07460	CHAR 12/11/01	12/11/03
	Preamplifier	HP	8449B-H02	3008A00372	CHAR 3/4/01	3/4/03
	Amplifier	HP	11975A	2738A01969	CHAR 3/1/01	3/1/03
	Egg Timer	Unk			CHAR 8/31/01	8/31/03
	Measuring Tape, 20M	Kraftixx	0631-20		CHAR 2/1/02	2/1/04

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DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
Measuring Tape, 7.5M	Kraftixx	7.5M PROFI		2/1/02	2/1/04
Coaxial Cable #51	Insulated Wire Inc.	NPS 2251- 2880	Timco #51	CHAR 1/23/02	1/23/04
Coaxial Cable #64	Semflex Inc.	60637	Timco #64	CHAR 1/24/02	1/24/04
Coaxial Cable #65	General Cable Co.	E9917 RG233/U	Timco #65	CHAR 1/23/02	1/23/04
Coaxial Cable #106	Unknown	Unknown	Timco #106	CHAR 1/23/02	1/23/04

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