TIMCO ENGINEERING INC.
849 NW State Road 45
Newberry, Florida 32669
http://www.timcoengr.com
888.472.2424 F 352.472.2030 email: tei@timcoengr.com

Test Report

Product Name: REMOTE CONTROL

FCC ID: IFHZEBRA472

Applicant:

HITEC RCD INC.
12115 PAINE STREET
POWAY CA 92064

Date Receipt: 5/23/2006

Date Tested: 6/27/2006

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TEST REPORT:

EXHIBITS INCLUDING:

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GENERAL INFORMATION

2.1033(c)(1)(2) HITEC RCD INC. will sell the FCC ID: IFHZEBRA472 Radio Control transmitter in quantity, for use under PART 95 SUBPART C.

HITEC RCD INC.
12115 PAINE STREET
POWAY CA 92064

2.1033(c)(3) Instruction manual is included in the exhibits.

2.1033 (4) Type of Emission: 8K0F1D
95.631 (b)(5)

Bn = 2M + 2DK
M = 4,800 Bits per second
D = 800 Hz (Peak Deviation)
K = 1
Bn = 2(4.8/2) + 2(1600)(1) =4.8K + 3.2K =8.0k

ALLOWED AUTHORIZED BANDWIDTH = 8.00 kHz.

95.631 (b) Authorized Bandwidth 8 kHz for RC Transmitter

2.1033(c)(6) Frequency Range: 72.01 - 72.99 MHz

95.623 (a)(7) Power Range and Controls: There are NO user Power controls.

(8) Function of each electron tube or semiconductor device or other active circuit device are included in the exhibits

(9) Maximum Output Power Rating: 0.250 W ERP.

(10) DC Voltages and Current into Final Amplifier:

FINAL AMPLIFIER ONLY

Vce = 7.2 VDC
Ice = 0.07 A.

Pin = 0.5 W

2.1033(c)(11) Tune-up procedure. The tune-up procedure is included in the exhibits.

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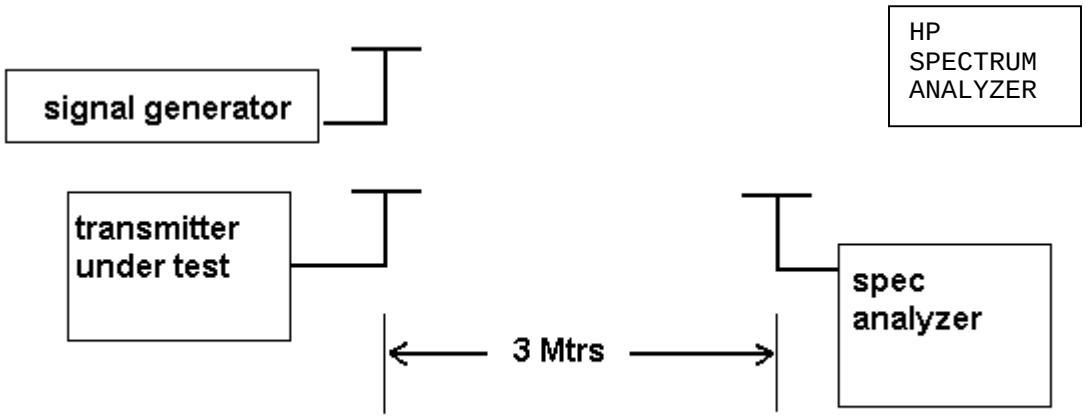
2.1033(c)(12)	Complete Circuit Diagrams: The circuit diagram are included in the exhibits.
(13)	Description of all circuitry and devices provided for determining and stabilizing frequency is given in the exhibits.
2.1033(c)(14)	The Equipment identification is shown in the exhibits.
2.1033(c)(15)	Photographs of the equipment are shown in the exhibits.
2.1033(c)(16)	Equipment employing Digital modulation. N/A.
2.1033(c)(17)	The data required by 2.1046-2.1057 follows;
2.1046	RF power is measured by the ERP METHOD. There are no provisions to limit the power. With a nominal battery voltage of 7.2 VDC, and the transmitter properly adjusted the RF output measures:
	Po = 0.250 Watts ERP
2.1046	**RF power output.**



2.1047 Modulation characteristics:

AUDIO FREQUENCY RESPONSE
The Voice is NOT allowed in this band.

2.1049 Occupied bandwidth:
95.635 (b)

(1) At least 25dB on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.

(2) At least 45 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 125% of the authorized bandwidth.

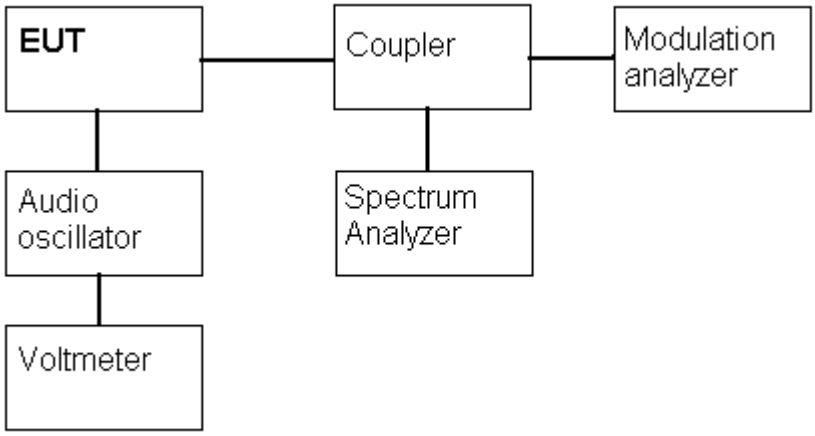
(3) At least 55 dB on any frequency removed from the center of the authorized bandwidth by more than 125% up to and including 250% of the authorized bandwidth.

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

Radiotelephone Transmitter with Modulation Limiter

Test Procedure Diagram

OCCUPIED BANDWIDTH MEASUREMENT



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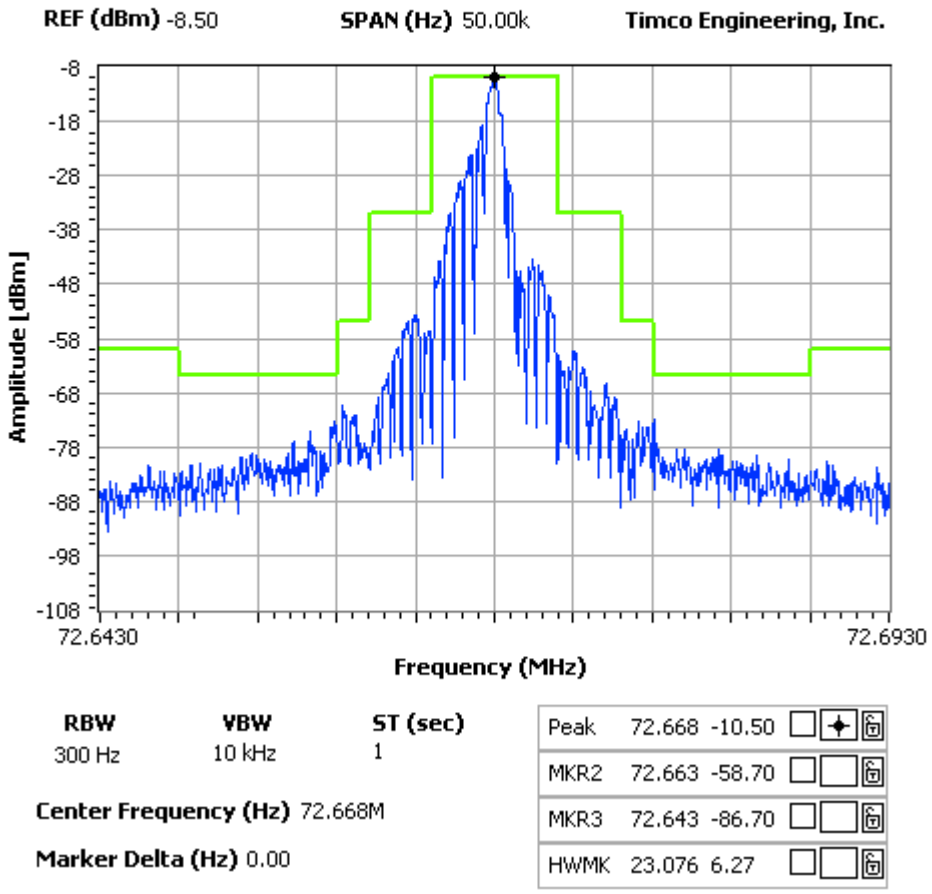
OCCUPIED BANDWIDTH PLOT

NOTES:
OCCUPIED BANDWIDTH
HITEC RCD INC.
FCC ID: IFH ZEBRAA472
FCC 95.635 Mask (1) (10) (11) (12)



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2.1051 **SPURIOUS EMISSIONS AT ANTENNA TERMINALS**

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

56 + 10log(0.250) = 50 dB

TEST DATA:

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
72.70		
145.30	V	57.91
218.00	V	61.56
290.70	V	74.77
363.40	V	77.61
436.10	V	78.70
508.78	H	64.95
581.40	V	67.98
654.10	H	67.33
726.80	H	76.20

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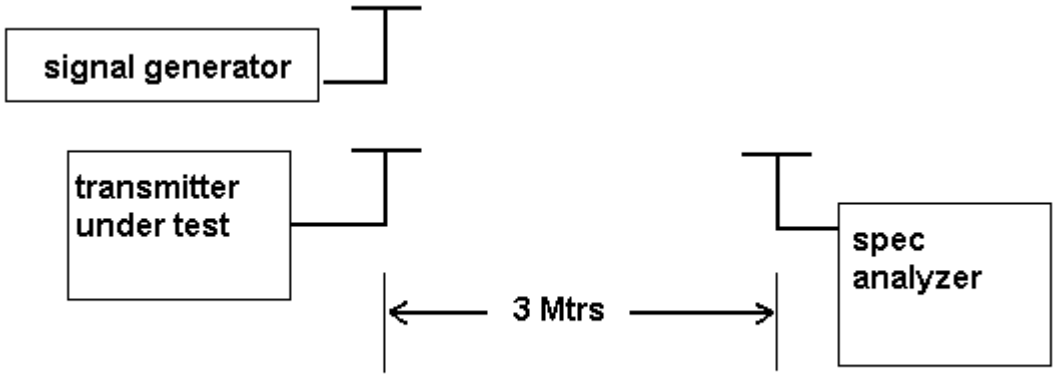
Method of Measuring Radiated Spurious Emissions



METHOD OF MEASUREMENT: The procedure used was TIA-603-C. 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. The temperature was then reduced to –30 degrees C after which the transmitter was again allowed to stabilize for one Hour. The transmitter was keyed ON for one minute, and again frequency 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 the end point of the battery voltage of 7.2 VDC.

MEASUREMENT DATA:

Ref. Freq.
72.666558

TEMPERATURE °C	FREQUENCY MHz	PPM
-30°C	72.667835	17.57
-20°C	72.667853	17.82
-10°C	72.667661	15.18
-0°C	72.667500	12.96
10°C	72.667195	8.77
20°C	72.666813	3.51
30°C	72.666425	-1.83
40°C	72.666015	-7.47
50°C	72.665745	-11.19

Batt. Volts	Batt. Data	PPM
-15%	72.666560	0.03
+15%	72.666525	-0.45

-15%	6.12
+15%	8.28

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TEST SET UP PHOTO

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EMC Equipment List

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Analyzer Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 12/7/05	12/7/07
Analyzer Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 12/7/05	12/7/07
Analyzer Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 12/8/05	12/8/07
Analyzer Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 12/8/05	12/8/07
Antenna: Biconnical	Electro-Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Antenna: Log-Periodic	Electro-Metrics	LPA-25	1122	CAL 8/26/04	8/26/06
Antenna: Double-Ridged Horn	Electro-Metrics	RGA-180	2319	CAL 12/29/04	12/29/06
LISN	Electro-Metrics	ANS-25/2	2604	CAL 8/27/04	8/27/06
Termaline Wattmeter	Bird Electronic Corporation	611	16405	CAL 7/16/04	7/16/06