

Application for FCC Certification
On behalf of
Hankscraft Inc.

RF Timer Controller

Model No.: 5244341H
Serial No.: F05072602

FCC ID : TJT5244341

Prepared For : Hankscraft Inc.
300 Wengel Drive, Reedsburg, WI, USA

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F05045
Date of Test : Aug 04-09, 2005
Date of Report : Aug 12, 2005

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TEST REPORT FOR FCC CERTIFICATION

Applicant : Hankscraft Inc.
Manufacturer : Hanke Wujiao Mechanical & Electrical (Suzhou) Co., Ltd.
EUT Description : RF Timer Controller
(A) Model No. : 5244341H
(B) Serial No. : F05072602
(C) Power Supply : DC 12V
(D) Crystal Frequency : 433.83MHz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2004
AND ANSI C63.4:2001*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits radiated emission.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: 5244341H; S/N: F05072602), which was tested in 3m anechoic chamber on Aug 04-09, 2005 to be technically compliant with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government by the client.

Date of Test : Aug 04-09, 2005

Prepared By:

Kathy Wang 2005. 8.17.
KATHY WANG / Assistant

Reviewer:

Chen 2005. 08.17
AUDIX For and on behalf of
CHEN / Supervisor
Audix Technology (Shanghai) Co., Ltd.

Approved Signatory:

Byron K.W.O. 17 Aug 05
BYRON K.W.O. / Deputy Manager...
Authorized Signature(s)

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2004 AND ANSI C63.4:2001	Pass	15.209
Fundamental and Spurious	FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2004 AND ANSI C63.4:2001	Pass	15.231 (b)
Bandwidth	FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2004 AND ANSI C63.4:2001	Pass	15.231 (c)

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : RF Timer Controller

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model No. : 5244341H

Serial No. : F05072602

Applicant : Hankscraft Inc.
300 Wengel Drive, Reedsburg, WI, USA

Manufacturer : Hanke Wujiao Mechanical & Electrical
(Suzhou) Co., Ltd.
JiangZhuang Private Industrial Park, GuoXiang Town,
Suzhou, China

2.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
August 15, 2003 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F 34Bldg 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai, China 200233

FCC registration Number : 91789

Accredited by NVLAP, Lab Code : 200371-0

2.3 Measurement Uncertainty

Radiated Emission Expanded Uncertainty : U = 2.96dB

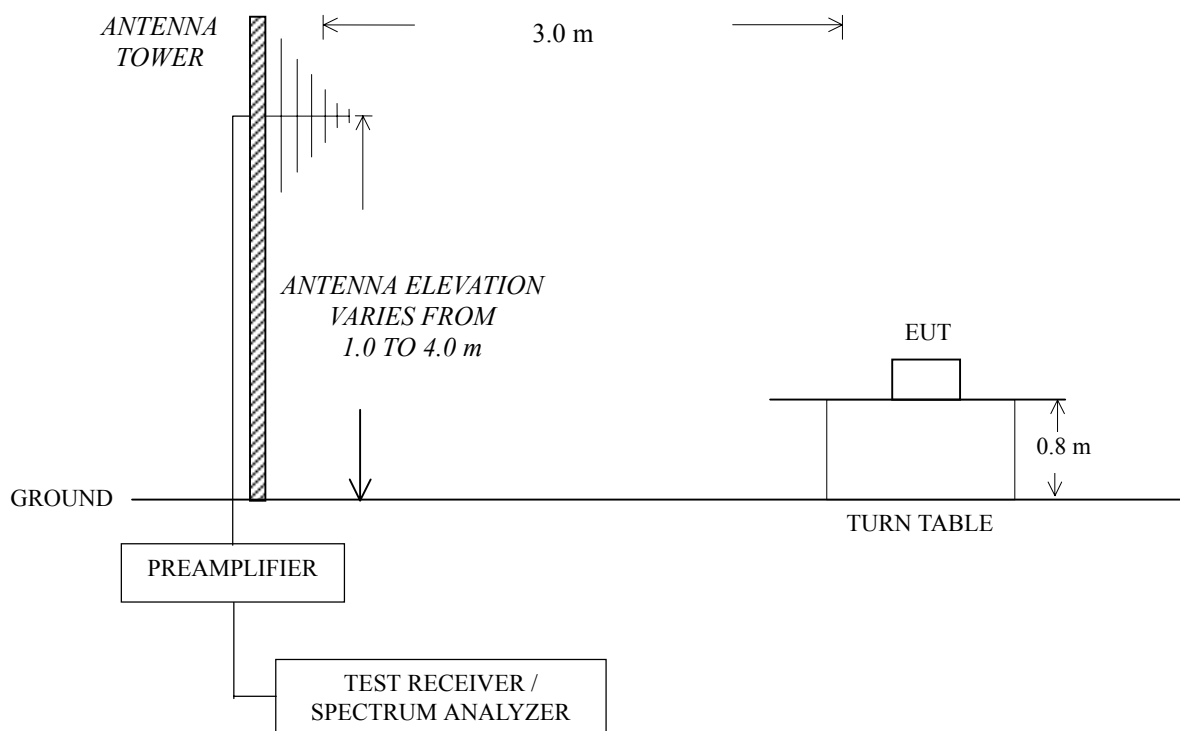
3 RADIATED EMISSION TEST

3.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3628A00167	Apr 18, 2005	Apr 18, 2006
2.	Bilog Antenna	Chase	CBL6111	1146	Mar 18, 2005	Sep 18, 2005
3.	Test Receiver	R&S	ESVS10	832699/004	Apr 08, 2005	Apr 08, 2006
4.	Preamplifier	HP	8447D	2944A06849	Mar 20, 2005	Sep 20, 2005
5.	50ΩCoaxial Switch	ANRITSU	MP59B	6200426390	Apr 07, 2005	Oct 07, 2005
6.	Software	Audix	E3	SET00200 9912M295-2	--	--

3.2 Block Diagram of Test Setup



3.3 Radiated Emission Limit

Frequency (MHz)	Distance (m)	Field strength limits (μV/m)	
		(μV/m)	dB (μV/m)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.			

3.4 Test Configuration

The EUT was installed as show on Sec. 3.2 in radiated emission test to meet FCC requirement and operating in a manner, which tend to maximize emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipments and the EUT.

3.5.3 Set the EUT on the test modes (lying, side, stand), and then test.

3.6 Test Procedures

The EUT was placed on a turntable, which is 0.8 meter above the ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) was used as a receiving antenna. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interference cables were manipulated.

The bandwidth setting on Test Receiver ESVS10 is 120 kHz below 1000 MHz.

The frequency range from 30 MHz to 1G Hz was checked.

The test modes (lying, side, stand) were done on radiated disturbance test. Please refer to Sec.3.7.

3.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

The worst test mode is for Stand. The worst emission at horizontal polarization was detected at 732.280 MHz with corrected signal level of 27.44 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was height 1.18m and the turntable was at 303°. The worst emission at vertical polarization was detected at 638.190 MHz with corrected signal level of 25.91 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was height 1.00m and the turntable was at 42°.

0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 1 – Probe Factor means Antenna Factor.

NOTE 2 – Emission Level = Meter Reading + Antenna Factor + Cable Loss
– Preamp Factor.

NOTE 3 – All readings are Quasi-Peak values.

NOTE 4 – The Test Receiver was used in measuring Quasi-Peak values when the frequency range is from 30MHz to 1000MHz.

EUT : RF Timer Controller Temperature : 23°C

Model No. : 5244341H Humidity : 53%

Serial No. : F05072602

Test Mode : Lying Date of Test : Aug 04, 2005

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	34.850	26.77	14.33	1.05	28.85	13.30	40.00	26.70
	109.540	27.44	11.79	1.90	28.45	12.68	43.50	30.82
	252.130	27.51	13.18	3.02	27.70	16.01	46.00	29.99
	281.230	29.21	13.63	3.13	27.64	18.33	46.00	27.67
	521.790	28.68	19.04	4.50	29.00	23.22	46.00	22.78
	696.390	28.27	22.80	5.31	28.80	27.58	46.00	18.42
Vertical	35.820	26.87	13.98	1.06	28.84	13.07	40.00	26.93
	110.510	26.55	11.69	1.91	28.44	11.71	43.50	31.79
	211.390	30.32	10.26	2.78	27.85	15.51	43.50	27.99
	281.230	30.86	13.63	3.13	27.64	19.98	46.00	26.02
	615.880	29.18	21.31	4.89	28.96	26.42	46.00	19.58
	706.090	28.05	23.11	5.37	28.78	27.75	46.00	18.25

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : RF Timer Controller Temperature : 23°C

Model No. : 5244341H Humidity : 53%

Serial No. : F05072602

Test Mode : Side Date of Test : Aug 04, 2005

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	34.850	26.64	14.33	1.05	28.85	13.17	40.00	26.83
	111.480	27.47	11.64	1.91	28.44	12.58	43.50	30.92
	201.690	26.94	10.77	2.72	27.89	12.54	43.50	30.96
	281.230	28.53	13.63	3.13	27.64	17.65	46.00	28.35
	560.590	28.75	20.04	4.65	29.00	24.44	46.00	21.56
	732.280	27.86	22.77	5.51	28.70	27.44	46.00	18.56
Vertical	35.820	28.03	13.98	1.06	28.84	14.23	40.00	25.77
	106.630	26.95	11.98	1.87	28.46	12.34	43.50	31.16
	130.880	27.65	12.82	2.07	28.34	14.20	43.50	29.30
	281.230	30.51	13.63	3.13	27.64	19.63	46.00	26.37
	415.090	28.10	17.66	3.90	28.41	21.25	46.00	24.75
	638.190	28.28	21.54	5.01	28.92	25.91	46.00	20.09

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : RF Timer Controller Temperature : 23°C

Model No. : 5244341H Humidity : 53%

Serial No. : F05072602

Test Mode : Stand Date of Test : Aug 04, 2005

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	34.850	27.41	14.33	1.05	28.85	13.94	40.00	26.06
	104.690	28.40	11.39	1.85	28.47	13.17	43.50	30.33
	201.690	26.89	10.77	2.72	27.89	12.49	43.50	31.01
	281.230	28.60	13.63	3.13	27.64	17.72	46.00	28.28
	541.190	28.27	20.35	4.58	29.00	24.20	46.00	21.80
	735.190	28.22	22.73	5.52	28.69	27.78	46.00	18.22
Vertical	33.880	27.34	14.35	1.04	28.86	13.87	40.00	26.13
	106.630	26.93	11.98	1.87	28.46	12.32	43.50	31.18
	174.530	28.94	10.93	2.47	28.15	14.19	43.50	29.31
	276.380	30.40	13.46	3.12	27.65	19.33	46.00	26.67
	478.140	29.86	18.25	4.30	28.87	23.54	46.00	22.46
	706.090	28.61	23.11	5.37	28.78	28.31	46.00	17.69

TEST ENGINEER: Dio Yang
(DIO YANG)

4 FUNDAMENTAL AND SPURIOUS EMISSIONS TEST

4.1 Test Equipment

The following test equipment are used during the fundamental and spurious emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	HP	8447D	2944A06849	Mar 20, 2005	Sep 20, 2005
2.	Bilog Antenna	Chase	CBL6111	1146	Mar 18, 2005	Sep 18, 2005
3.	Test Receiver	R&S	ESVS10	832699/004	Apr 08, 2005	Apr 08, 2006
4.	Amplifier	HP	8449B	3008A00864	Apr 18, 2005	Apr 18, 2006
5.	Spectrum Analyzer	HP	8593EM	3628A00167	Apr 18, 2005	Apr 18, 2006
6.	Horn Antenna	EMCO	3115	9607-4878	Apr 18, 2005	Apr 18, 2006
7.	Oscilloscope	HP	54602B	US36181094	Mar 19, 2005	Sep 19, 2005

4.2 Block Diagram of Test Setup

Same as Sec 3.2

4.3 Fundamental and Spurious Emission Limit

Frequency (MHz)	Distance (m)	Field strength limits of fundamental	Field strength limits of spurious emissions
		($\mu\text{V/m}$)	($\mu\text{V/m}$)
260 ~ 470	3	3750-12500*	375-1250*
NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - "*" means linear interpolation. NOTE 5 - The fundamental frequency of the EUT is 433.92MHz, Emission Level dB ($\mu\text{V/m}$) = $20\log(41.6667 \times 433.92 - 7083.3333) = 80.55 \text{ dB}$ ($\mu\text{V/m}$) and the limit of the Harmonic is 60.55$\mu\text{V/m}$.			

4.4 Test Configuration

The EUT was installed as show on Sec. 3.2 in fundamental and spurious emission test to meet ANSI C63.4:2001 requirements and operating in a manner that tend to maximize emission level in a normal application.

4.5 Operating Condition of EUT

- 4.5.1 Setup the EUT as shown in Sec. 3.2.
- 4.5.2 Turn on the power of all equipments and the EUT.
- 4.5.3 Set the EUT on the test modes (Lying, Side, Stand), and then test.

4.6 Test Procedures

The EUT was placed on a table that is 0.8 meter above ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated antenna) was used as receiving antenna below 1000MHz. Horn antenna were used as receiving antenna above 1000MHz. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to FCC PART 15 Subpart C and ANSI C63.4:2001 requirements during fundamental and spurious emission test.

The bandwidth setting on Test Receiver ESVS10 is 120 kHz below 1000 MHz.
The bandwidth setting on Spectrum analyzer 8593EM is 1 MHz above 1000 MHz.

The frequency range from 30 MHz to 4339.2 MHz (the tenth harmonic) was checked. The EUT rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission.

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

NOTE 1 - All readings are Peak Values.

NOTE 2 - Emission Level = Meter Reading + Antenna Factor + Cable Loss
– Preamp Factor – Correction Factor

NOTE 3 - Correction factor is calculated by averaging the sum of the pulse train.

Correction factor is measured as follows:

Turn on the EUT and set the spectrum to the fundamental frequency and set the scan width to 0 Hz. Then connect a storage oscilloscope to the video output of the spectrum that is used to detect the pulse train. Adjust the oscilloscope settings to observe the pulse train and determine the number and width of the pulses, as well as the period of the train.

$$\begin{aligned}\text{Correction Factor} &= |20\log[(0.42*13+0.074*12)/14.24]| \\ &= |-7.02| \text{ dB} = 7.02 \text{ dB}\end{aligned}$$

NOTE 4 – Figure 1: The period of the pulse train

$$\Delta t=14.24\text{ms}$$

Figure 2: The first pulse

$$\Delta t=0.42\text{ms} \quad \text{total: 13}$$

Figure 3: The second pulse

$$\Delta t=0.074\text{ms} \quad \text{total: 12}$$

(See Appendix I)

EUT : RF Timer Controller Temperature : 23°C

Model No. : 5244341H Humidity : 53%

Serial No. : F05072602

Test Mode : Lying Date of Test : Aug 09, 2005

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.83	77.30	17.72	4.03	28.56	7.02	63.47	80.55	17.08
	867.66	53.30	22.88	6.09	28.36	7.02	46.89	60.55	13.66
	1301.49	47.11	25.40	7.62	36.74	7.02	36.37	60.55	24.18
	1735.32	42.87	26.81	9.17	35.90	7.02	35.93	60.55	24.62
Vertical	433.83	62.90	17.72	4.03	28.56	7.02	49.07	80.55	31.48
	867.66	44.2	22.88	6.09	28.36	7.02	37.79	60.55	22.76
	1301.49	44.81	25.40	7.62	36.74	7.02	34.07	60.55	26.48
	1735.32	42.94	26.81	9.17	35.90	7.02	36.00	60.55	24.55

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : RF Timer Controller Temperature : 23°C

Model No. : 5244341H Humidity : 53%

Serial No. : F05072602

Test Mode : Side Date of Test : Aug 09, 2005

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.83	68.60	17.72	4.03	28.56	7.02	54.77	80.55	25.78
	867.66	46.30	22.88	6.09	28.36	7.02	39.89	60.55	20.66
	1301.49	46.33	25.40	7.62	36.74	7.02	35.59	60.55	24.96
	1735.32	42.82	26.81	9.17	35.90	7.02	35.88	60.55	24.67
Vertical	433.83	73.50	17.72	4.03	28.56	7.02	59.67	80.55	20.88
	867.66	52.60	22.88	6.09	28.36	7.02	46.19	60.55	14.36
	1301.49	46.57	25.40	7.62	36.74	7.02	35.83	60.55	24.72
	1735.32	42.84	26.81	9.17	35.90	7.02	35.90	60.55	24.65

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : RF Timer Controller Temperature : 23°C

Model No. : 5244341H Humidity : 53%

Serial No. : F05072602

Test Mode : Stand Date of Test : Aug 09, 2005

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Correction factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	433.83	68.90	17.72	4.03	28.56	7.02	55.07	80.55	25.48
	867.66	53.70	22.88	6.09	28.36	7.02	47.29	60.55	13.26
	1301.49	45.08	25.40	7.62	36.74	7.02	34.34	60.55	26.21
	1735.32	43.04	26.81	9.17	35.90	7.02	36.10	60.55	24.45
Vertical	433.83	76.80	17.72	4.03	28.56	7.02	62.97	80.55	17.58
	867.66	52.40	22.88	6.09	28.36	7.02	45.99	60.55	14.56
	1301.49	49.93	25.40	7.62	36.74	7.02	39.19	60.55	21.36
	1735.32	42.97	26.81	9.17	35.90	7.02	36.03	60.55	24.52

TEST ENGINEER: Dio Yang
(DIO YANG)

5 BANDWIDTH MEASUREMENT

5.1 Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3628A00167	Apr 18, 2005	Apr 18, 2006
2.	Bilog Antenna	Chase	CBL6111	1146	Mar 18, 2005	Sep 18, 2005
3.	Preamplifier	HP	8447D	2944A06849	Mar 20, 2005	Sep 20, 2005
4.	Software	Audix	E3	SET00200 9912M295-2	--	--

5.2 Bandwidth Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency.
Bandwidth is determined at the point 20dB down from the modulated carrier.
Bandwidth Limit is:

$$\text{Limit} = 0.25\% \times 433.832(\text{MHz}) = 1.085(\text{MHz})$$

The bandwidth of Spectrum Analyzer (M/N: 5244341H) is 120kHz in the test.

5.3 Test Results

<PASS>

The bandwidth of the Fundament emission is:

$$\text{B.W.} = 433.987 - 433.626 = 0.361\text{MHz}$$

(See Appendix II)

6 OPERATION DESCRIPTION

Motion sensor with RF remote (M/N: 5244341H) employs a switch that will automatically deactivate the Controller within not more than 5 seconds of being released.

APPENDIX I

PLOT OF THE PULSE TRAIN

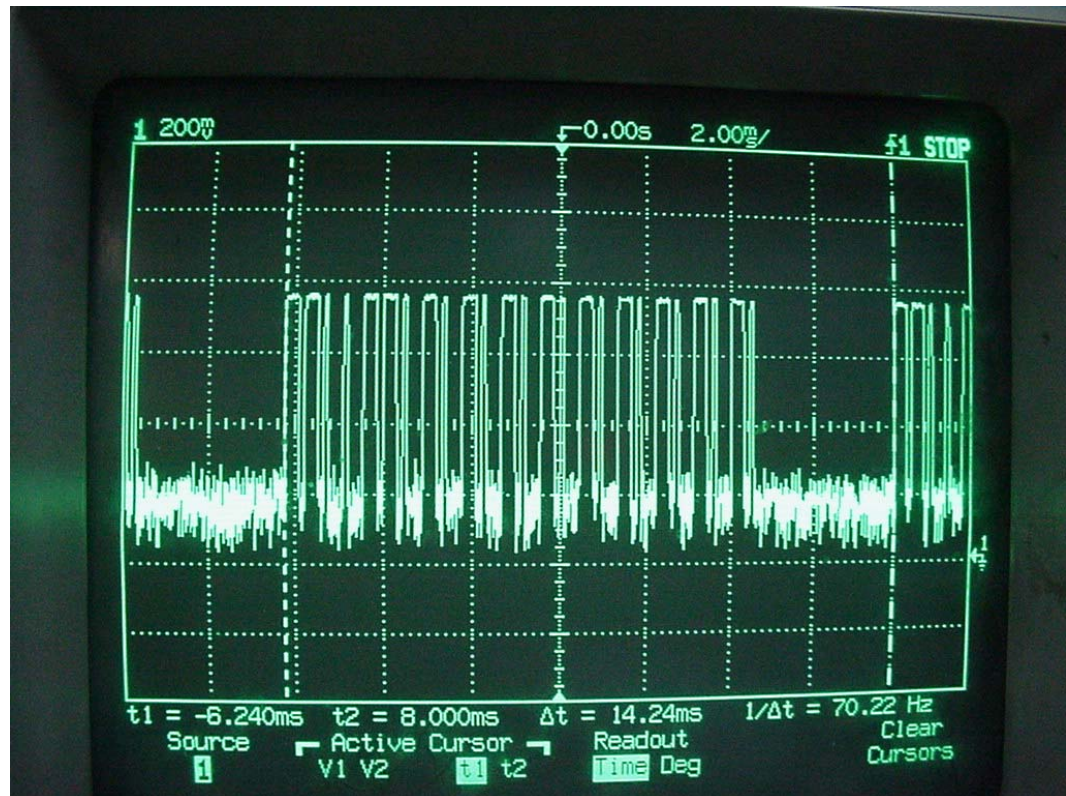


FIGURE 1

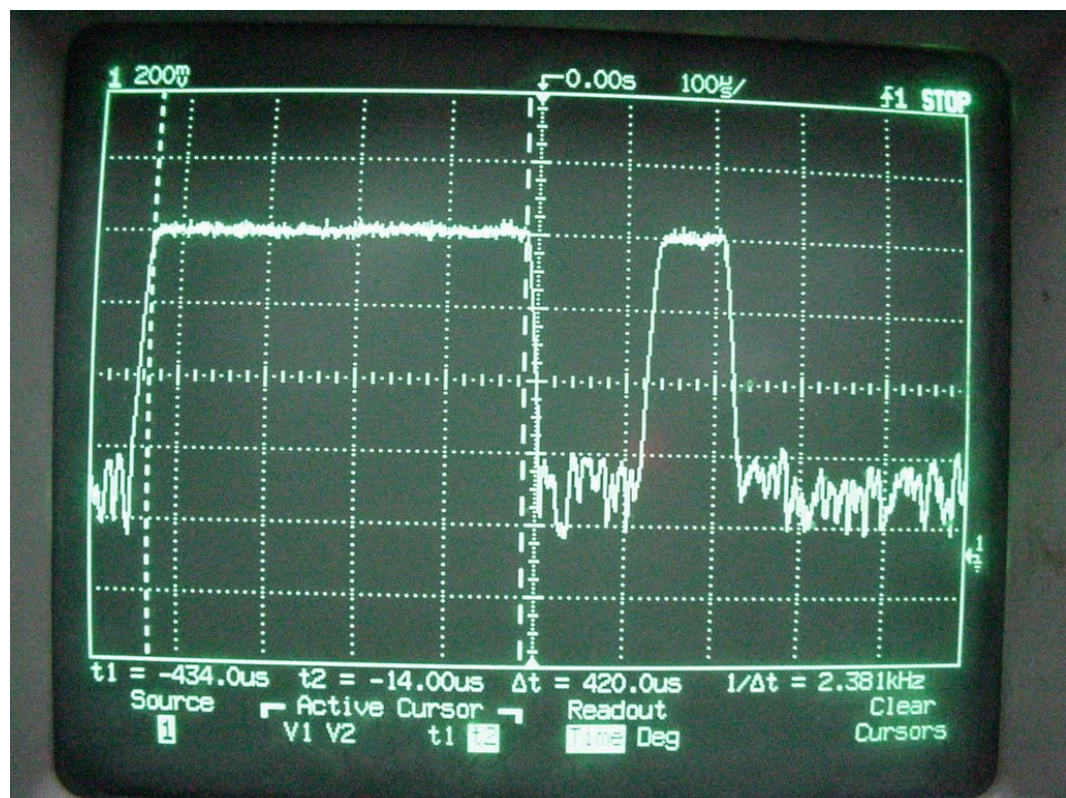


FIGURE 2

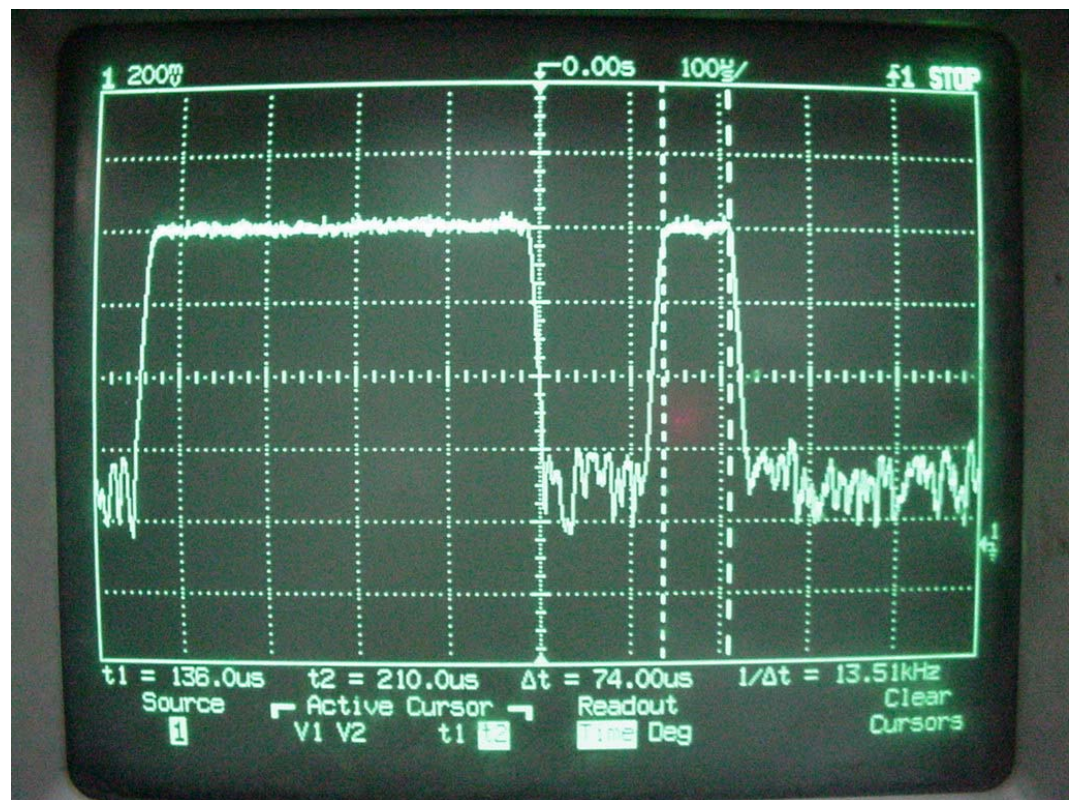


FIGURE 3

APPENDIX II

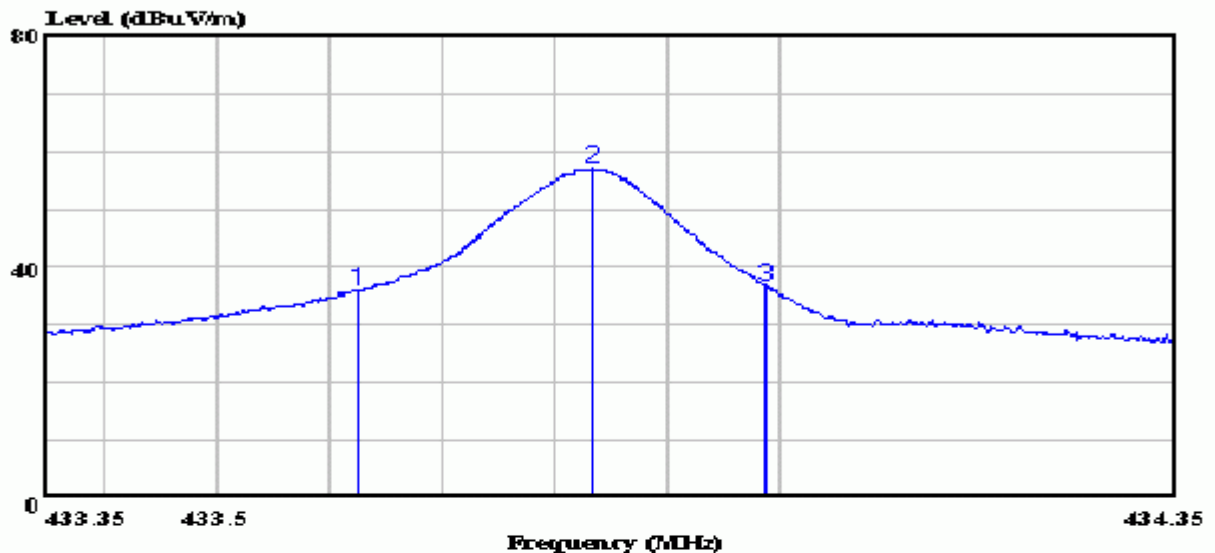
PLOT OF THE OCCUPIED BANDWIDTH



Audix Technology (Shanghai) Co., Ltd.
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audixaci@audix.com

Data#: 44 File#: D:\OLD-Test-Data\H\Hankscraft.EMI

Date: 2005-08-04 Time: 14:59:28



Site : Chamber 3
Condition : 3m HORIZONTAL
Project No. : AOE-000937-FCCID
Applicant : Hankscraft Inc.
EUT : RF Timer Controller
M/N : 5244341H
S/N : F05072602
Power Supply : 120V/60Hz
Ambient : 23C, 53%
Test Mode : Lying
Test Engineer: Dio
Memo : *Do Yan*

Page: 1

	Freq	Level	Limit	Over	Read	Probe	Cable	Preamp
	MHz	dBuV/m	Line	Limit	Level	Factor	Loss	Factor
			dBuV/m	dB	dBuV	dB	dB	dB
1	433.626	35.98	-----	-----	42.82	-6.84	17.72	28.56
2	433.832	56.88	-----	-----	63.72	-6.84	17.72	28.56
3	433.987	36.70	-----	-----	43.54	-6.84	17.72	28.56