APPLICATION FOR CERTIFICATION
On Behalf of
Elyssa Corporation

2 Channel Wireless Remote Control System (Receive Unit)

Model Number: EWC-2

Prepared for : Elyssa Corporation
P.O. Box 138, Briarcliff Manor, N.Y. 10510

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number	:	ACS-F03211
Date of Test	:	Sep.06~09, 2003
Date of Report	:	Sep.16, 2003

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TEST REPORT DECLARATION

Applicant : Elyssa Corporation

Manufacturer : Kentec Industrial (Hong Kong) Ltd.

EUT Description : 2 Channel Wireless Remote Control System (Receive Unit)

(A) MODEL NO. : EWC-2
(B) SERIAL NO. : F2003091601
(C) POWER SUPPLY : Adaptor AC Input 120V/60Hz Output DC 12V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Mar, 2003.

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits for radiated and conducted emissions.
The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of tests. Also, this report shows that EUT is technically compliant with FCC requirements.

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

Date of Test : Sep.06~09, 2003

Prepared by : Jane Dai / Assistant

Reviewer : Lake Wang / Supervisor

Approved & Authorized Signer : Alex Deng / Assistant Manager

AUDIX 信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report
Signature:

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	2 Channel Wireless Remote Control System (Receive Unit)
Model Number	:	EWC-2
Applicant	:	Elyssa Corporation P.O. Box 138, Briarcliff Manor, N.Y. 10510
Manufacturer	:	Kentec Industrial (Hong Kong) Ltd. F-P, 9/F, Haribest Ind. Bldg. 45-47 Au Pui Wan St. Fo Tan, Shatin
Data Cable	:	Unshielded, Detachable, 1.5m
Date of Test	:	Sep.06~09, 2003

1.2. Test Facility

Site Description

3m Anechoic Chamber	:	Certificated by FCC, USA Aug. 24, 2000
3m & 10m Open Site	:	Certificated by FCC, USA Jan. 29, 2001
		Certificated by VCCI, Japan Jan.01, 2002
EMC Lab.	:	Certificated by DATech, German Feb. 02, 1999
		Certificated by NVLAP, USA NVLAP Code: 200372-0 Mar. 31, 2003
Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd.
Site Location	:	No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

1.3. Test Uncertainty

Conducted Emission Uncertainty	=	±2.66dB
Radiated Emission Uncertainty	=	±4.26dB

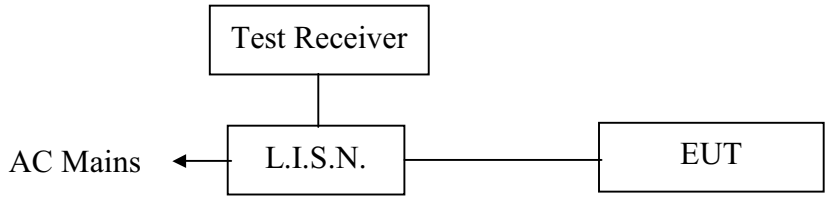
2. POWER LINE CONDUCTED EMISSION TEST

2.1. Test Equipment

The following test equipments are used during the power line conducted emission test:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	May.31, 03	1 Year
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-541-4	May.31, 03	1 Year
3.	L.I.S.N. #2	R&S	ESH2-Z5	834066/011	May.31, 03	1 Year
4.	Terminator	EMCO	50Ω	No. 1	May.31, 03	1 Year
5.	Terminator	EMCO	50Ω	No. 2	May.31, 03	1 Year
6.	RF Cable	FUJIKURA	RG-55/U	LISN Cable	Aug.21, 03	1/2 Year
7.	Coaxial Switch	Anritsu	MP59B	M74389	May.29, 03	1/2 Year
8.	PC	N/A	586ATXS	N/A	N/A	N/A
9.	Printer	HP	Laserjet2100	SGGJ092351	N/A	N/A

2.2. Block Diagram of Test Setup



(EUT: 2 Channel Wireless Remote Control System)

2.3. Power Line Conducted Emission Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150KHz ~ 500KHz	66 ~ 56*	56 ~ 46*
500KHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.4. EUT Configuration on Test

The following equipments are installed on RF LINE VOLTAGE Test to meet the Commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

2.4.1. 2 Channel Wireless Remote Control System（EUT）

Model Number	:	EWC-2
Serial Number	:	F2003091601
Manufacturer	:	Kentec Industrial (Hong Kong) Ltd.

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on Section 2.2.

2.5.2. Turn on the power of all equipment.

2.5.3. Let the EUT work in test mode (On) and measure it.

2.6. Test Procedure

The EUT is put on the table which is 0.8m above the ground and away from other metallic surface at least 0.4m. The EUT is connected to the AC/DC Adapter. The AC/DC Adapter power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the testing equipment; and the peripheral equipment powers form other L.I.S.N.. Please refer to the block diagram of the test setup and photographs. Both sides of AC line(Line & Neutral) are checked for maximum conducted interference. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables must be changed according to ANSI / IEEE Standard 213-1987 on Conducted Emission Test.

The bandwidth of the field strength meter (R & S Test Receiver ESHS20) is set at 10KHz.

The bandwidth of the VBW is set at 30KHz.

The frequency range from 150KHz to 30MHz is checked.

The details of test modes are as the followings, and the test data please see APPENDIX I.

2.7. Power Line Conducted Emission Test Results

PASS.

3. RADIATED EMISSION TEST

3.1. Test Equipment

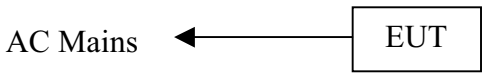
The following test equipments are used during the radiated emission Test：

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Spectrum	HP	85422E	3625A00181	May.31, 03	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.31, 03	1 Year
3.	Amplifier	HP	8447D	2944A07794	Mar.19, 03	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Jan. 14, 03	1 Year
5.	PC	N/A	586ATX3	N/A	N/A	N/A
6.	Printer	HP	Laserjet6P	SGCF019673	N/A	N/A
7.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Aug.02, 03	1/2 Year
8.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Aug.02, 03	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Aug.02, 03	1/2 Year
10.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Aug. 02, 03	1/2 Year
11.	Coaxial Switch	Anritsu	MP59B	M73989	May.29, 03	1/2 Year

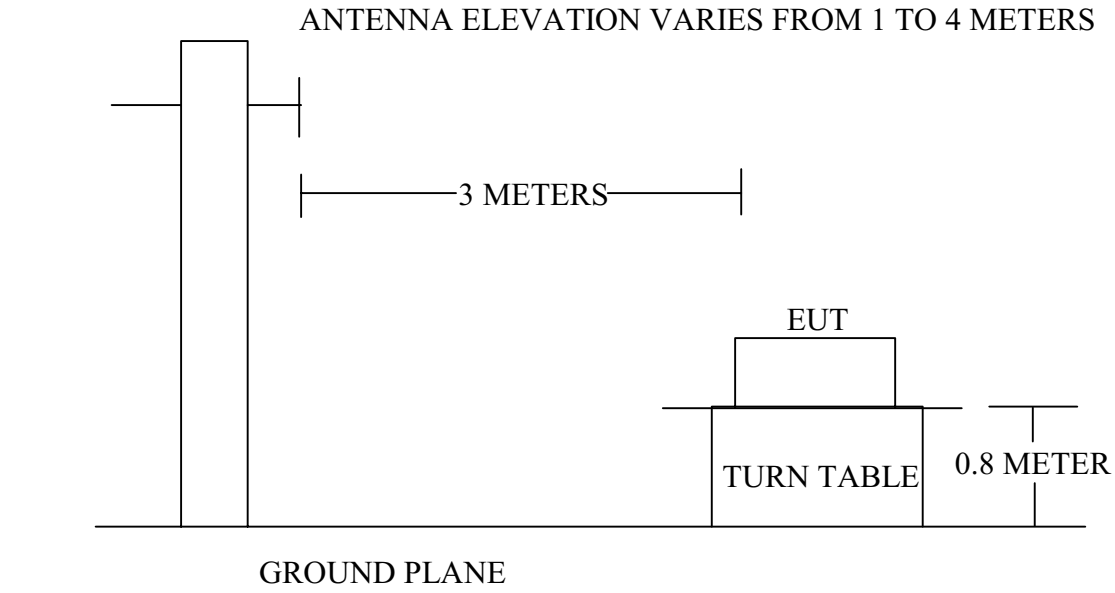
3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



(EUT: 2 Channel Wireless Remote Control System)

3.2.2. Anechoic Chamber Setup Diagram



3.3. Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		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

Remark： (1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.4.1. 2 Channel Wireless Remote Control System (EUT)

Model Number	:	EWC-2
Serial Number	:	F2003091601
Manufacturer	:	Kentec Industrial (Hong Kong) Ltd.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT as shown in Section 3.2..

3.5.2. Let the EUT work in test modes (On) and test it.

3.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-1992 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120KHz.

The frequency range from 30MHz to 1000MHz are checked.

The test modes (On) is tested in Anechoic Chamber and all the scanning waveforms are attached in Appendix II.

3.7. Radiated Emission Test Results

PASS.

The frequency range from 30MHz to 1000MHz is investigated.
Please see the following pages.

Date of Test	:	Sep.09, 2003	Temperature	:	23℃
EUT	:	2 Channel Wireless Remote Control System	Humidity	:	54%
Model No.	:	EWC-2	Test Mode	:	On (RX Channel A)
Test Engineer:		Seco			

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dBμV/m	Limits dBμV/m
433.450	16.94	4.89	17.64	39.47	-6.53	46.00

Remark: 1. Emission Level = Antenna Factor + Meter Reading+Cable Loss
2.The bandwidth of the RBW is set at 120KHz and VBW is set at 300KHz.

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dBμV/m	Limits dBμV/m
433.450	16.81	4.89	12.56	34.26	-11.74	46.00

Remark: 1. Emission Level = Antenna Factor + Meter Reading+Cable Loss
2.The bandwidth of the RBW is set at 120KHz and VBW is set at 300KHz.

Reviewer: Cake Wang

Date of Test	:	Sep.09, 2003	Temperature	:	23℃
EUT	:	2 Channel Wireless Remote Control System	Humidity	:	54%
Model No.	:	EWC-2	Test Mode	:	On (RX Channel B)
Test Engineer:		Seco			

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dBμV/m	Limits dBμV/m
433.450	16.94	4.89	16.52	38.34	-7.66	46.00

Remark: 1. Emission Level = Antenna Factor + Meter Reading+Cable Loss
2.The bandwidth of the RBW is set at 120KHz and VBW is set at 300KHz.

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dBμV/m	Limits dBμV/m
433.450	16.81	4.89	11.54	33.24	-12.76	46.00

Remark: 1. Emission Level = Antenna Factor + Meter Reading+Cable Loss
2.The bandwidth of the RBW is set at 120KHz and VBW is set at 300KHz.

Reviewer: Luke Wang

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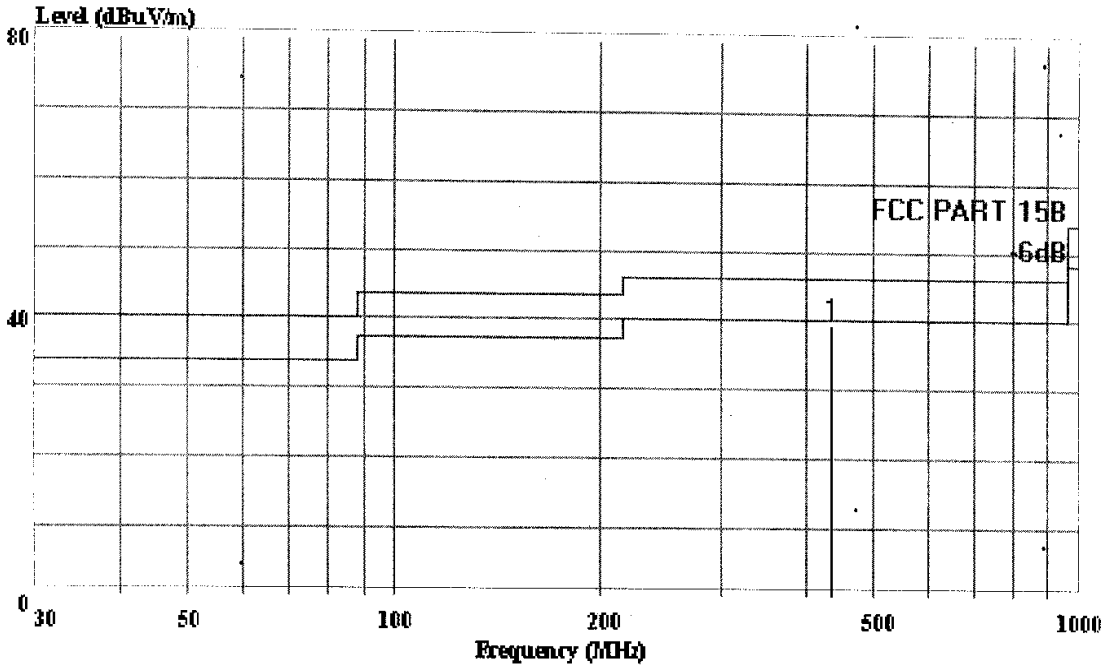

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Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz Output DC12V
Engineer:: Seco
On: : On
Memo : Temp:23' Humi:54%
: RX Channel A

Page: 1

	Freq	Level	Limit Line	Over Limit	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	433.450	39.47	46.00	-6.53	17.64	16.94	4.89

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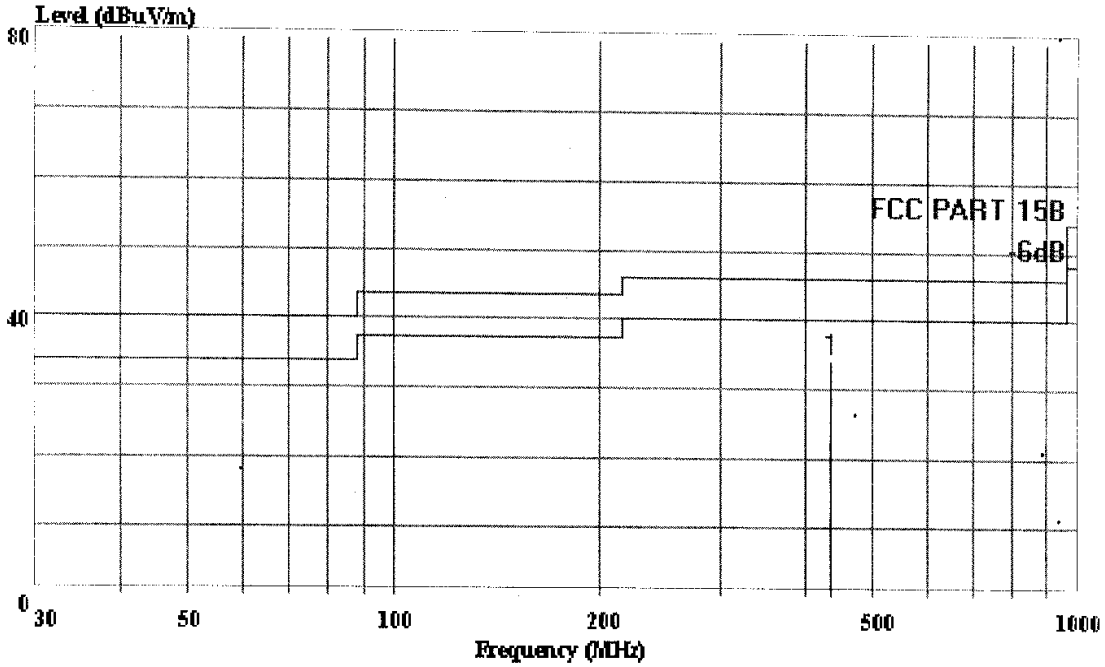

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Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz Output DC12V
Engineer:: Seco
On: : On
Memo : Temp:23' Humi:54%
: RX Channel A

Page: 1

	Freq	Level	Limit Line	Over Limit	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	433.450	34.26	46.00	-11.74	12.56	16.81	4.89

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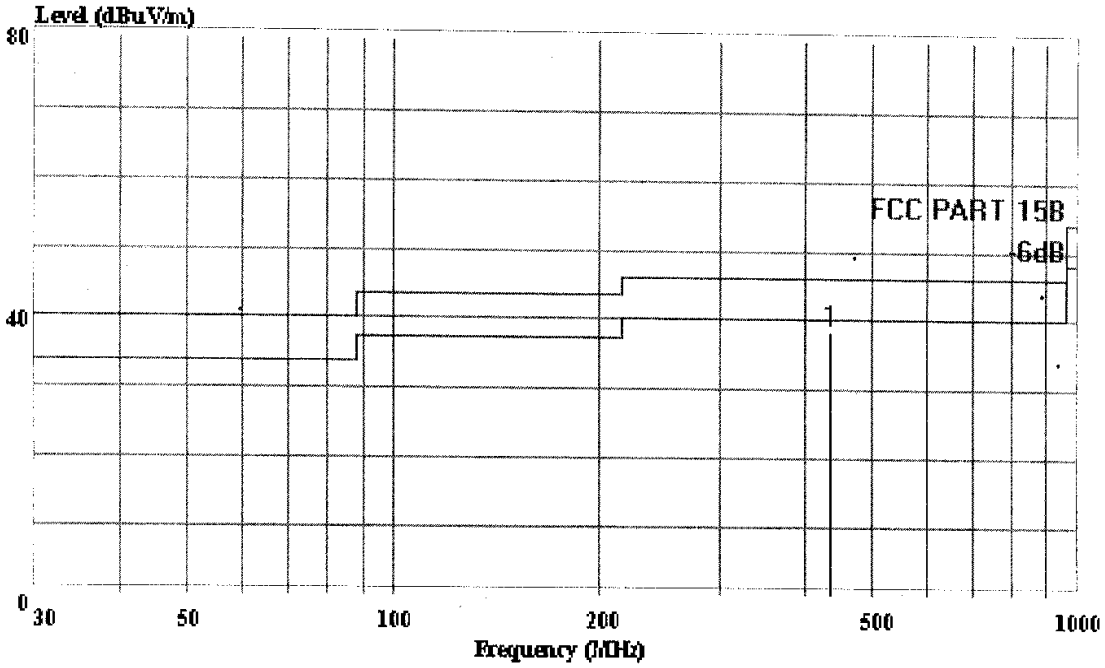

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Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz Output DC12V
Engineer:: Seco
Op: : On
Memo : Temp:23' Humi:54%
: RX Channel B

Page: 1

	Freq	Level	Limit Line	Over Limit	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	433.450	38.34	46.00	-7.66	16.52	16.94	4.89

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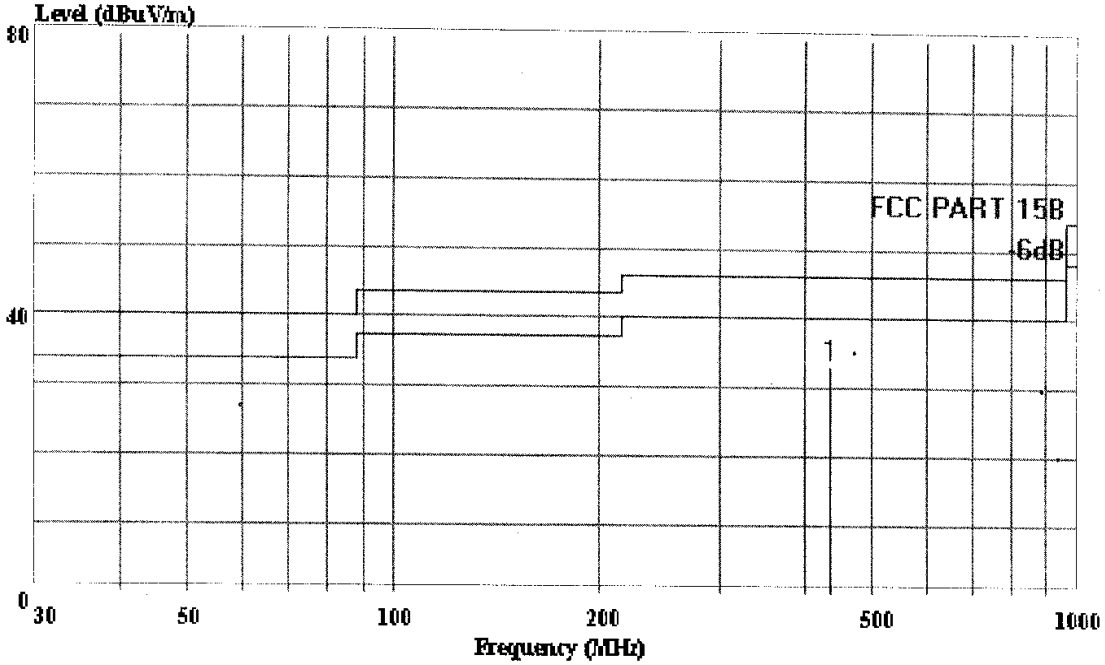

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Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz Output DC12V
Engineer:: Seco
Op: : On
Memo : Temp:23' Humi:54%
: RX Channel B

Page: 1

	Freq	Level	Limit Line	Over Limit	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	433.450	33.24	46.00	-12.76	11.54	16.81	4.89

APPENDIX I

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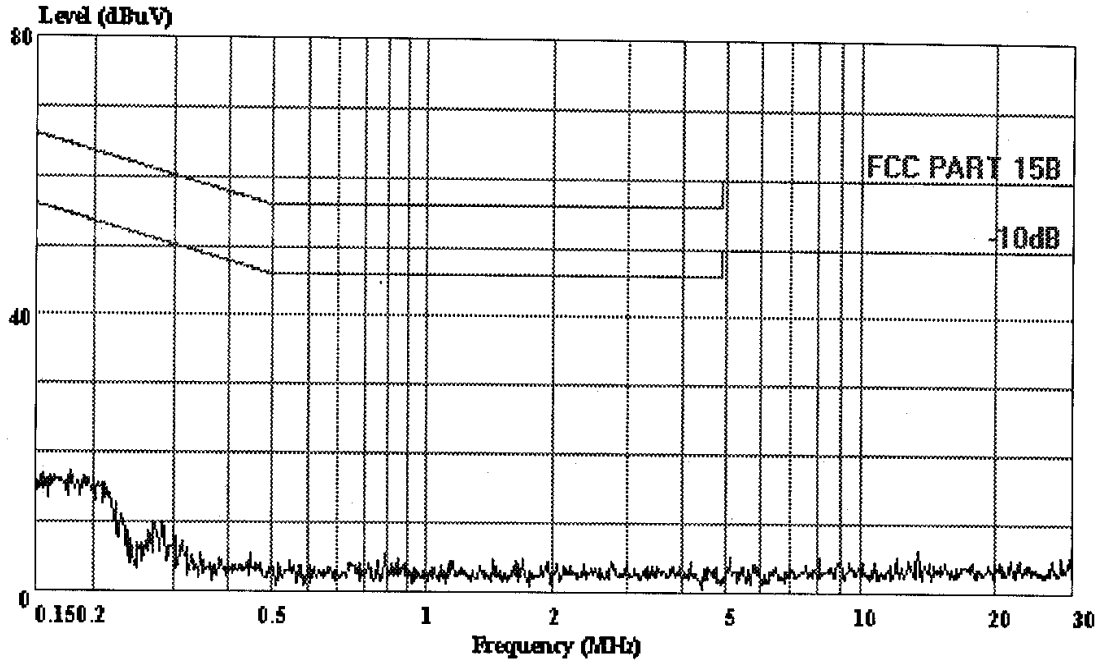

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Condition: FCC PART 15B VA (KNW-407)
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
OP Condition : On
Test Spec : Adaptor AC Input 120V/60Hz Output DC12V
Test Engineer: Seco
Comment : Temp:25.5'C Humi:55%
Memo : RX Channel A

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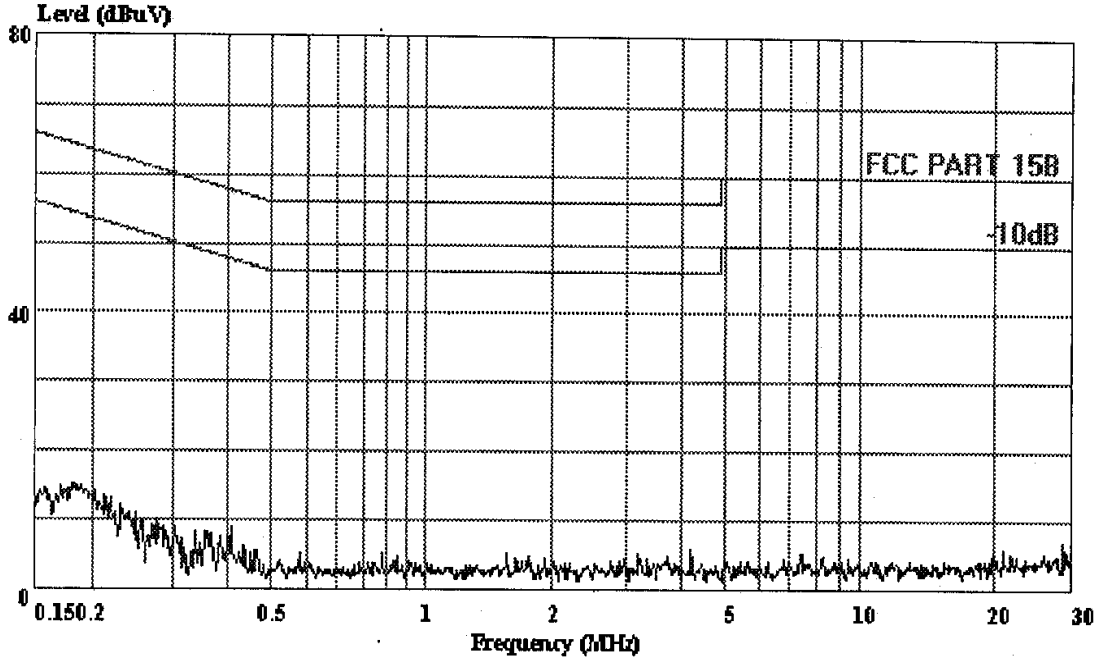

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

Trace: Ref Trace:

Condition: FCC PART 15B VB (KNW-407)
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
OP Condition : On
Test Spec : Adaptor AC Input 120V/60Hz Output DC12V
Test Engineer: Seco
Comment : Temp:25.5'C Humi:55%
Memo : RX Channel A

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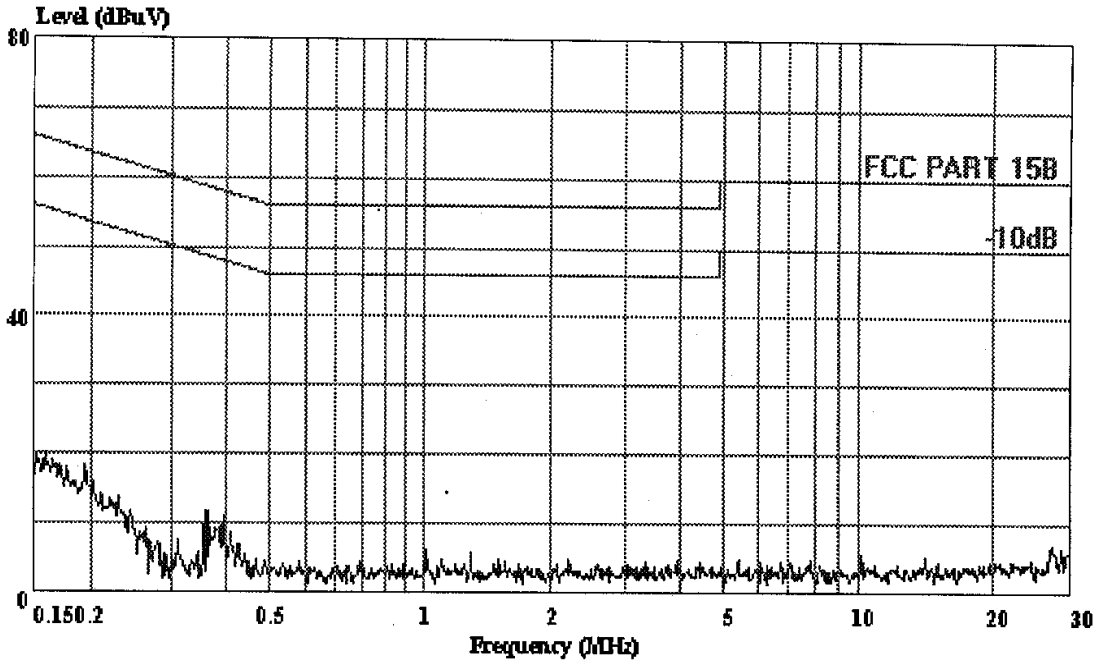

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Condition: FCC PART 15B VA (KNW-407)
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
OP Condition : On
Test Spec : Adaptor AC Input 120V/60Hz Output DC12V
Test Engineer: Seco
Comment : Temp:25.5'C Humi:55%
Memo : RX Channel B

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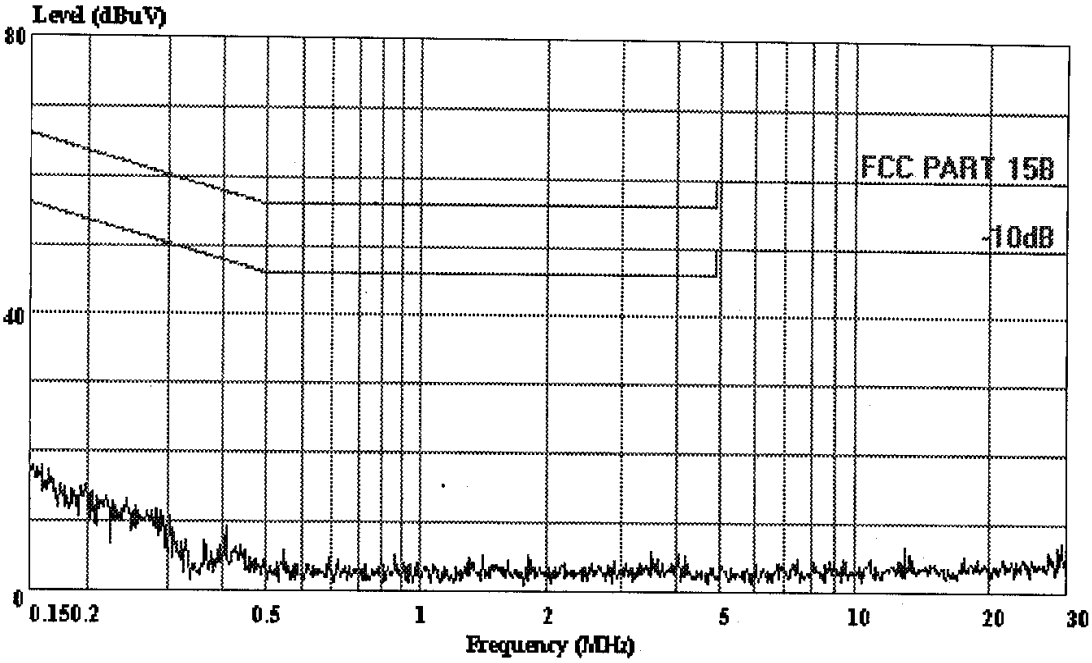

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Condition: FCC PART 15B VB (KNW-407)
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
OP Condition : On
Test Spec : Adaptor AC Input 120V/60Hz Output DC12V
Test Engineer: Seco
Comment : Temp:25.5'C Humi:55%
Memo : RX Channel B

APPENDIX II

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.
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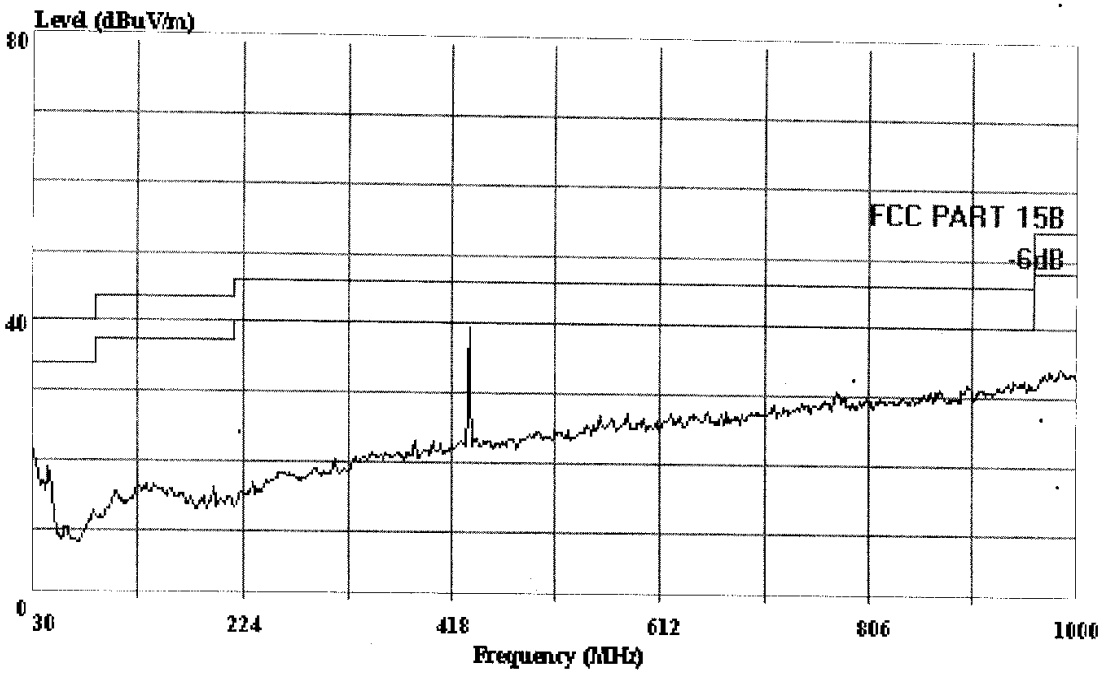

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Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz Output DC12V
Engineer:: Seco
Op: : On
Memo : Temp:23' Humi:54%
: RX Channel A

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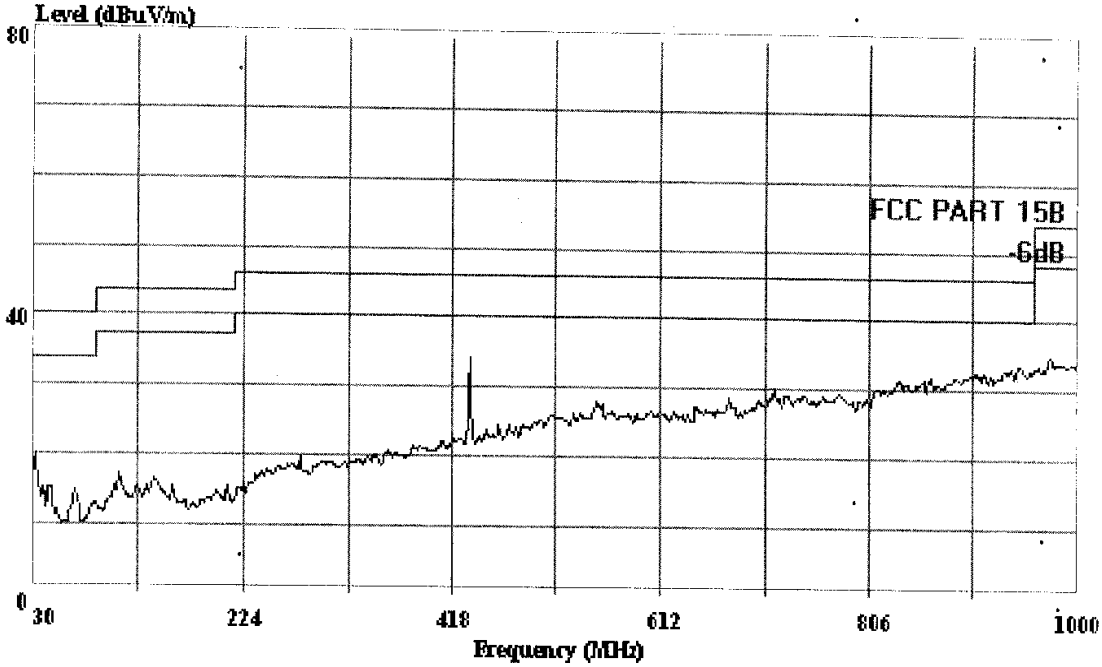

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Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz Output DC12V
Engineer:: Seco
Op: : On
Memo : Temp:23' Humi:54%
: RX Channel A

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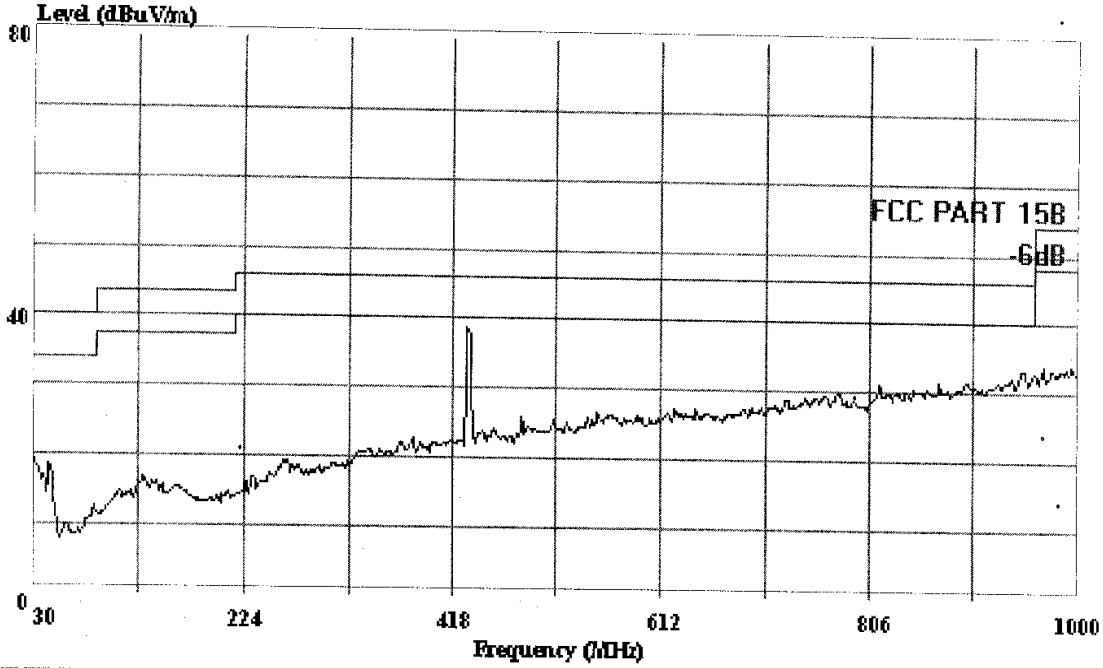

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Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz Output DC12V
Engineer:: Seco
Op: : On
Memo : Temp:23' Humi:54%
: RX Channel B

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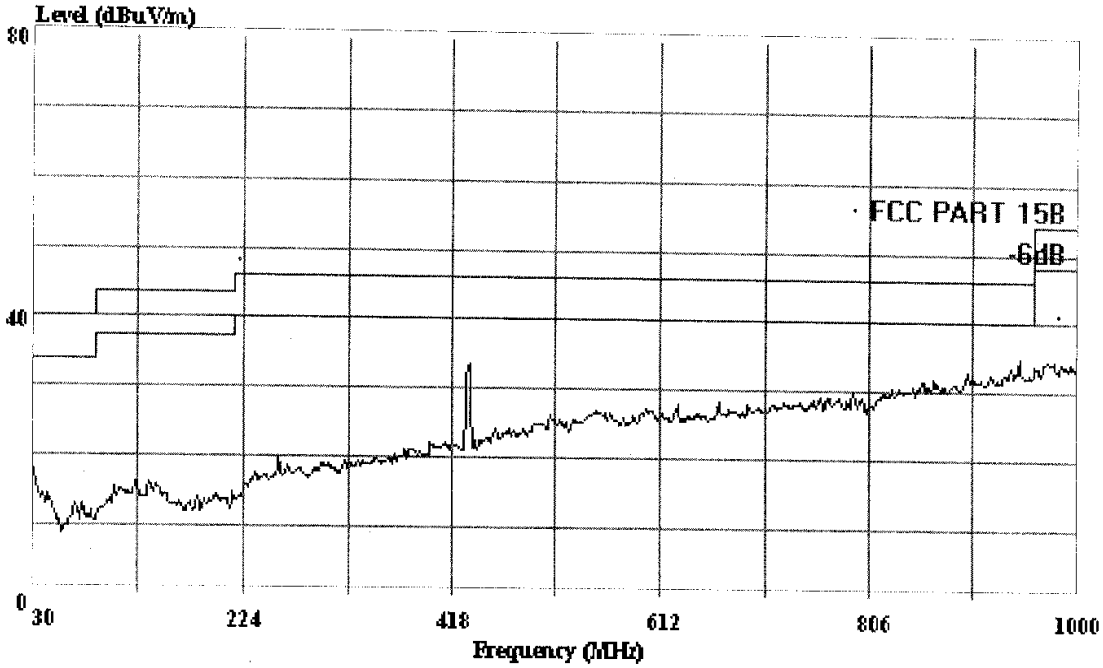

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz Output DC12V
Engineer:: Seco
Op: : On
Memo : Temp:23' Humi:54%
: RX Channel B

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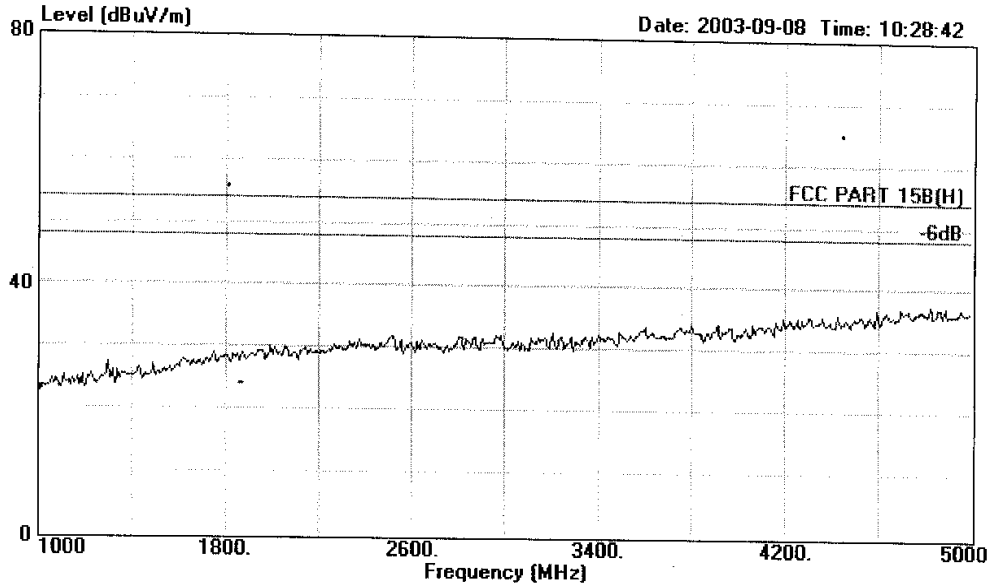
Data#: 1 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR HORIZONTAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz OutPut DC12V
Test Engineer : Seco
Memo : Temp:23' Humi:54%
Memo : On
Memo : RX Channel A

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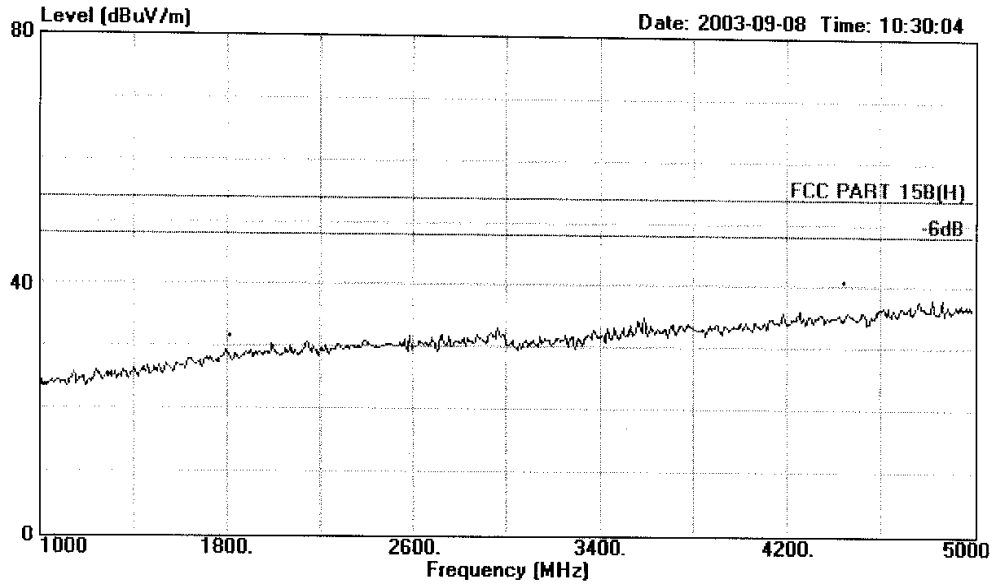
Data#: 2 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR VERTICAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz OutPut DC12V
Test Engineer : Seco
Memo : Temp:23' Humi:54%
Memo : On
Memo : RX Channel A

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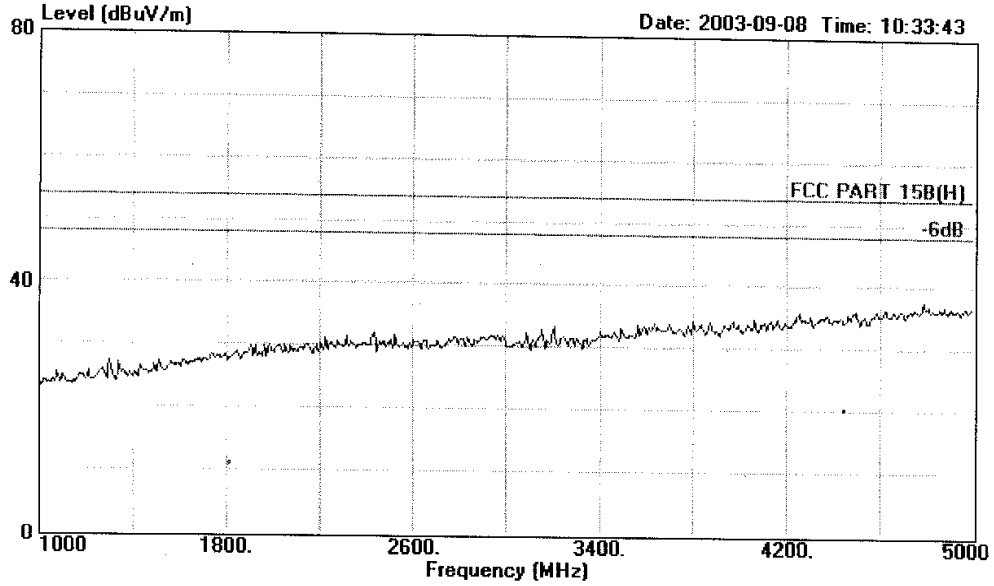
Data#: 4 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR HORIZONTAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz OutPut DC12V
Test Engineer : Seco
Memo : Temp:23' Humi:54%
Memo : On
Memo : RX Channel B

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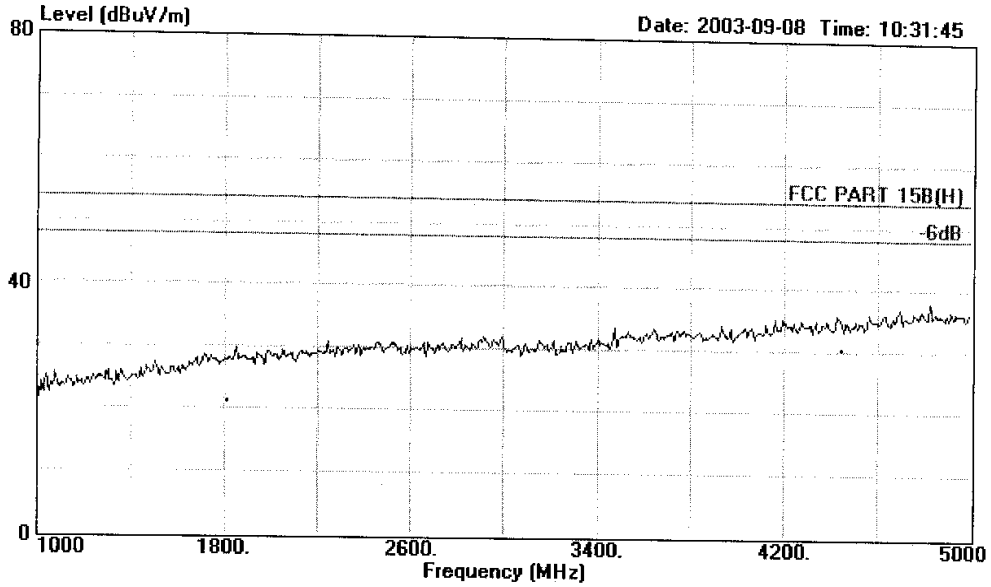
Data#: 3 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber
Condition : FCC PART 15B(H) 3m 3115FACTOR VERTICAL
EUT : 2 Channel Wireless Remote Control System
M/N : EWC-2
Power : Adaptor AC Input 120V/60Hz OutPut DC12V
Test Engineer : Seco
Memo : Temp:23' Humi:54%
Memo : On
Memo : RX Channel B