

APPLICATION FOR CERTIFICATION  
On Behalf of  
Elyssa Corporation

2 Channel Wireless Remote Control System (Transmit 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.  
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Shenzhen Science & Industrial Park,  
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Report Number : ACS-F03210  
Date of Test : Sep.06~09, 2003  
Date of Report : Sep.15, 2003

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APPENDIX I

(9 pages)

## TEST REPORT DECLARATION

Applicant : Elyssa Corporation  
 Manufacturer : Kentec Industrial (Hong Kong) Ltd.  
 EUT Description : 2 Channel Wireless Remote Control System (Transmit Unit)  
 (A) MODEL NO. : EWC-2  
 (B) SERIAL NO. : F2003091502  
 (C) Power Supply : DC 12V

**Test Procedure Used:**

FCC Rules and Regulations Part 15 Subpart C 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 C 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.

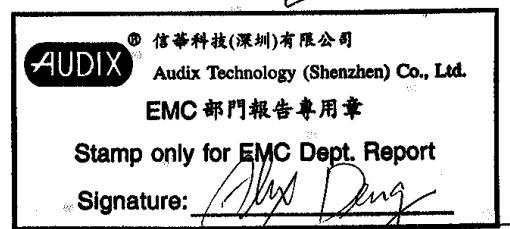
Date of Test : Sep.06~09, 2003

Prepared by :

Jane Dai  
Jane Dai / Assistant

Reviewer :

Lake Wang  
Lake Wang / Supervisor



Approved & Authorized Signer :

Alex Deng / Assistant Manager

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Description : 2 Channel Wireless Remote Control System  
(Transmit 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

According to Paragraph (f) of FCC Part 15 section 15.107, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

### 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
12.	EMI Spectrum Analyzer	Agilent	E4407B	MY41440292	Jun.22, 03	1 Year
13.	Horn Antenna	EMCO	3115	9607-4877	Dec.02, 02	1.5 Year
14.	High Frequency Cable	Huber + Suhner	Sucoflex 104	182769/4	May.29, 03	1 Year
15.	High Frequency Cable	Huber + Suhner	Sucoflex 104	182768/4	May.29, 03	1 Year
16.	High Frequency Cable	Huber + Suhner	Sucoflex 104	182771/4	May.29, 03	1 Year
17.	High Frequency Cable	Huber + Suhner	Sucoflex 104	182770/4	May.29, 03	1 Year

#### 3.2. Block Diagram of Test Setup

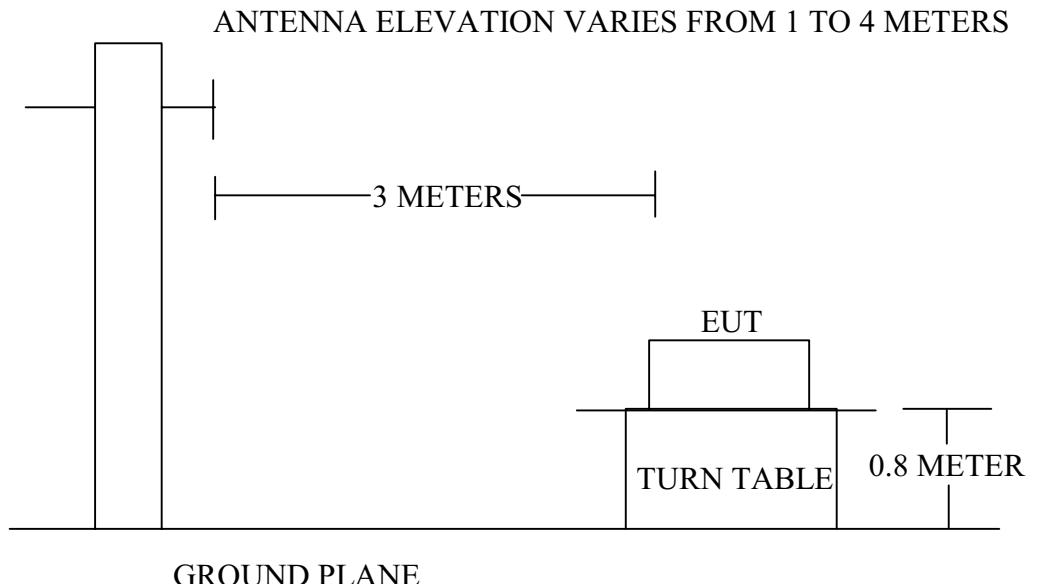
##### 3.2.1. Block Diagram of connection between EUT and simulators



(EUT: 2 Channel Wireless Remote Control System)

### 3.2.2. Anechoic Chamber Setup Diagram

#### ANTENNA TOWER



### 3.3. Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Fundamental:	3	80.82 $\text{dB}(\mu\text{V})/\text{m}$	
Harmonics:		60.82 $\text{dB}(\mu\text{V})/\text{m}$	

- Remark :
- (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
  - (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	:	F2003091502
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 from 30MHz to 1000MHz and the spectrum analyzer is set at 1MHz above 1GHz.

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

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

### 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°C
EUT :	2 Channel Wireless Remote Control System	Humidity :	54%
Model No. :	EWC-2	Test Mode :	On (TX Channel A)
Test Engineer:	Seco		

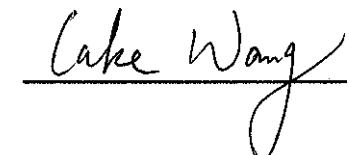
Frequency	Antenna Factor	Cable Loss	Meter Reading Horizontal	Emission Level Horizontal	Over Limits	Limits
MHz	dB/m	dB	dB $\mu$ V	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m
434.450	16.98	4.93	28.39	50.29	-30.53	80.82
<b>867.900</b>	<b>22.29</b>	<b>7.26</b>	<b>5.54</b>	<b>35.09</b>	<b>-25.73</b>	<b>60.82</b>

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

Frequency	Antenna Factor	Cable Loss	Meter Reading Vertical	Emission Level Vertical	Over Limits	Limits
MHz	dB/m	dB	dB $\mu$ V	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m
433.900	16.81	4.89	32.98	54.68	-26.14	80.82
<b>867.800</b>	<b>22.89</b>	<b>7.26</b>	<b>10.59</b>	<b>40.74</b>	<b>-20.08</b>	<b>60.82</b>

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

Reviewer:



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

Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Over Limits	Limits
MHz	dB/m	dB	dB $\mu$ V	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m
433.900	16.96	4.91	28.42	50.29	-30.53	80.82
<b>867.800</b>	<b>22.24</b>	<b>7.23</b>	<b>4.51</b>	<b>33.98</b>	<b>-26.84</b>	<b>60.82</b>

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

Frequency	Antenna Factor	Cable Loss	Meter Reading	Emission Level	Over Limits	Limits
MHz	dB/m	dB	Vertical	Vertical	dB $\mu$ V/m	dB $\mu$ V/m
433.900	16.81	4.89	32.98	54.68	-26.14	80.82
<b>867.800</b>	<b>22.89</b>	<b>7.26</b>	<b>10.59</b>	<b>40.74</b>	<b>-20.05</b>	<b>60.82</b>

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

Reviewer: Cailee Wang

Date of Test :	Sep.08, 2003	Temperature :	23°C
EUT :	2 Channel Wireless Remote Control System	Humidity :	54%
Model No. :	EWC-2	Test Mode :	On (TX Channel A)
Test Engineer:	Seco		

Frequency	Antenna Factor	Preamplifier Factor	Cable Loss	Meter Reading Horizontal	Emission Level Horizontal	Over Limits	Limits	Remark
MHz	dB	dB	dB	dB $\mu$ V	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m	
1296.000	24.36	36.88	2.38	44.17	34.03	-19.97	54.00	Average
1740.000	26.23	35.69	2.75	41.57	34.86	-19.14	54.00	Average
1296.000	24.36	36.88	2.38	49.17	39.03	-14.97	54.00	Peak
1740.000	26.23	35.69	2.75	46.57	39.86	-14.14	54.00	Peak

Remark: 1. All readings are Peak and Average values.

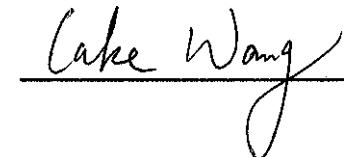
2. Emission Level =Antenna Factor + Cable Loss + Meter Reading– Preamplifier Factor

Frequency	Antenna Factor	Preamplifier Factor	Cable Loss	Meter Reading Vertical	Emission Level Vertical	Over Limits	Limits	Remark
MHz	dB	dB	dB	dB $\mu$ V	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m	
1296.000	24.36	36.88	2.38	45.79	35.65	-18.35	54.00	Average
1740.000	26.23	35.69	2.75	42.74	36.03	-17.97	54.00	Average
1296.000	24.36	36.88	2.38	49.79	39.65	-14.35	54.00	Peak
1740.000	26.23	35.69	2.75	48.74	42.03	-11.97	54.00	Peak

Remark: 1. All readings are Average and Peak values.

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

Reviewer:



Date of Test :	Sep.08, 2003	Temperature :	23°C
EUT :	2 Channel Wireless Remote Control System	Humidity :	54%
Model No. :	EWC-2	Test Mode :	On (TX Channel B)
Test Engineer:	Seco		

Frequency	Antenna Factor	Preamplifier Factor	Cable Loss	Meter Reading Horizontal	Emission Level Horizontal	Over Limits	Limits	Remark
MHz	dB	dB	dB	dB $\mu$ V	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m	
1296.000	24.36	36.88	2.38	42.75	32.61	-21.39	54.00	Average
1740.000	26.23	35.69	2.75	40.80	34.09	-19.91	54.00	Average
1296.000	24.36	36.88	2.38	47.75	37.61	-16.39	54.00	Peak
1740.000	26.23	35.69	2.75	46.80	40.09	-13.91	54.00	Peak

Remark: 1. All readings are Peak and Average values.

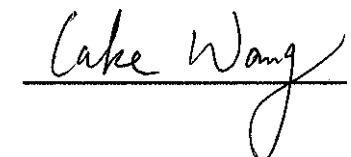
2. Emission Level =Antenna Factor + Cable Loss + Meter Reading– Preamplifier Factor

Frequency	Antenna Factor	Preamplifier Factor	Cable Loss	Meter Reading Vertical	Emission Level Vertical	Over Limits	Limits	Remark
MHz	dB	dB	dB	dB $\mu$ V	dB $\mu$ V/m	dB $\mu$ V/m	dB $\mu$ V/m	
1296.000	24.36	36.88	2.38	41.77	31.63	-22.37	54.00	Average
1740.000	26.23	35.69	2.75	40.22	33.51	-20.49	54.00	Average
2168.000	27.62	35.00	3.03	35.53	31.18	-22.82	54.00	Average
1296.000	24.36	36.88	2.38	45.77	35.63	-18.37	54.00	Peak
1740.000	26.23	35.69	2.75	45.22	38.51	-15.49	54.00	Peak
2168.000	27.62	35.00	3.03	38.53	34.18	-19.82	54.00	Peak

Remark: 1. All readings are Average and Peak values.

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

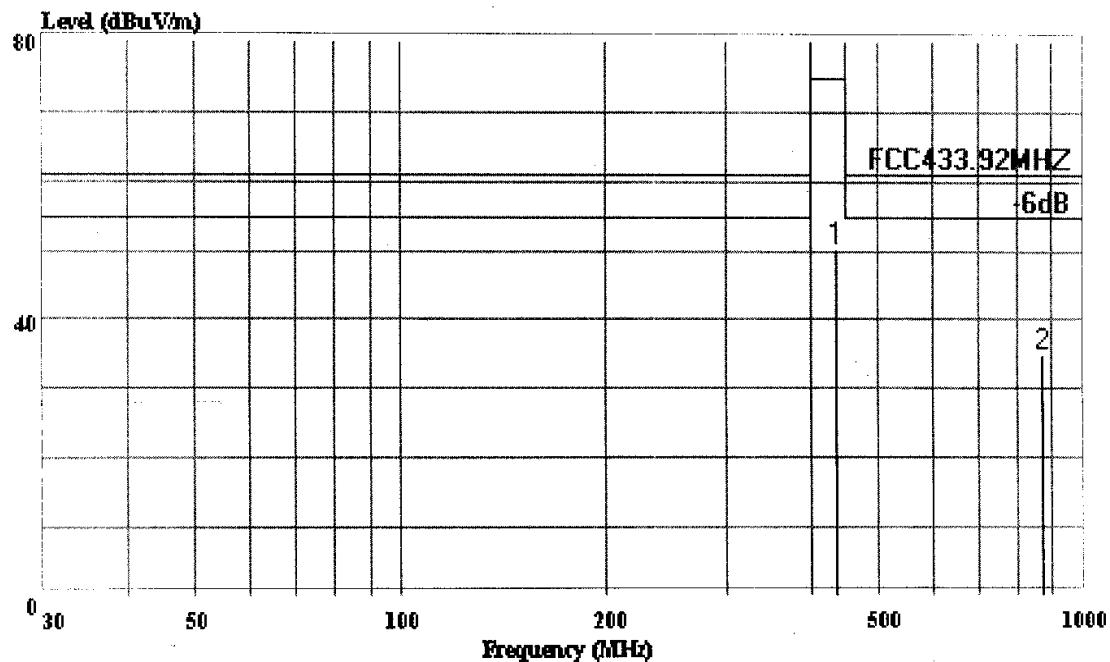
Reviewer:





Shenzhen Science & Ind. Park  
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Fax: 0755-26632877

Data#: 20 File#: Elyssa.EMI Date: 2003-09-09 Time: 20:52:24



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

Trace:

Ref Trace:

Condition: FCC433.92MHz 3m 2598FACTOR HORIZONTAL.  
 RUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Engineer: Seco  
 Op: On  
 Memo : Temp:23' Humi:54%  
       : TX Channel A

Page: 1

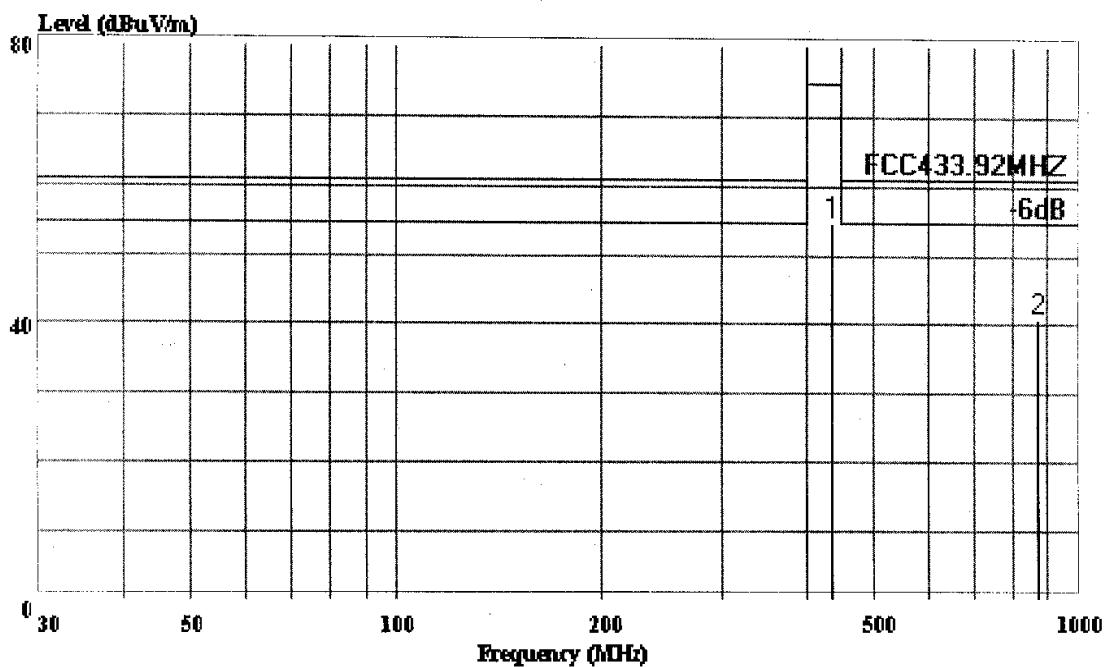
	Freq	Limit Level	Over Line	Read Limit	Probe Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	434.450	50.29	80.82	-30.53	28.39	16.98	4.93
2	867.900	35.09	60.82	-25.73	5.54	22.29	7.26



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Data#: 19 File#: Elyssa.EMI

Date: 2003-09-09 Time: 20:51:57



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

Trace:

Ref Trace:

Condition: FCC433.92MHZ 3m 2598FACTOR VERTICAL  
 FUT : 2. Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Engineer: Seco  
 Op: On  
 Memo : Temp:23' Humi:54%  
 : TX Channel A

Page: 1

	Freq	Limit	Over	Read	Probe	Cable
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB
1	433.900	54.68	80.82	-26.14	32.98	16.81
2	867.800	40.74	60.82	-20.08	10.59	22.89

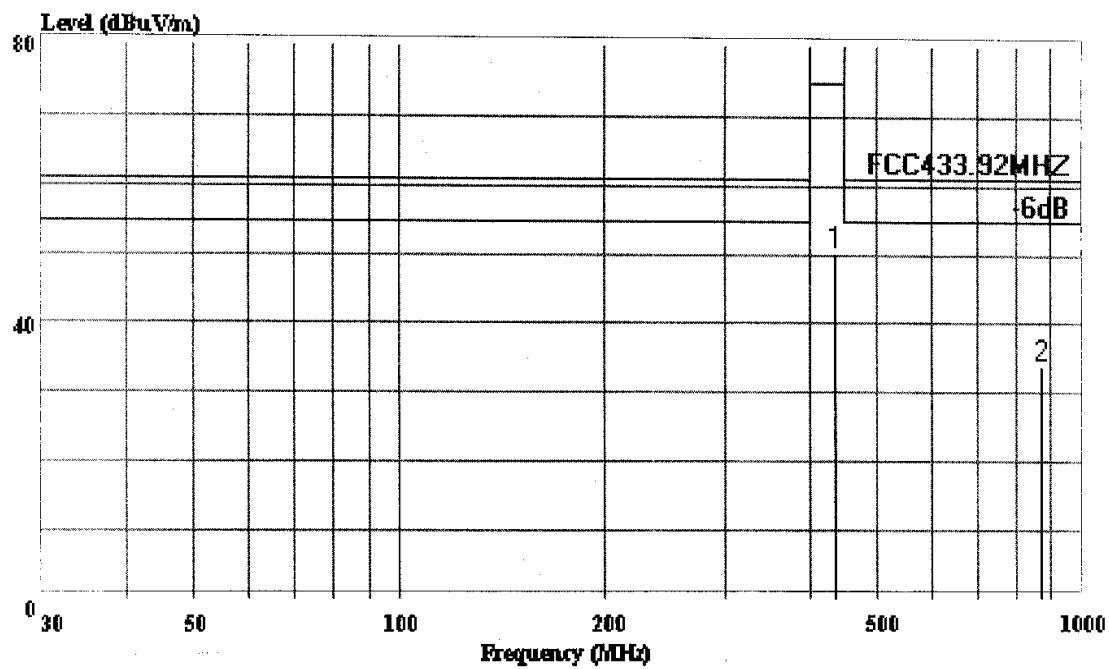


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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Data#: 21 File#: Elyssa.EMI

Date: 2003-09-09 Time: 20:52:41



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

Trace:

Ref Trace:

Condition: FCC433.92MHZ 3m 2598FACTOR HORIZONTAL.  
FUT : 2 Channel Wireless Remote Control System  
M/N : EWC-2  
Power : Battery Input DC12V  
Engineer: Seco  
Op: : On  
Memo : Temp:23' Humi:54%  
: TX Channel B

Page: 1

	Freq	Limit	Over	Read	Probe	Cable
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB
1	433.900	50.29	80.82	-30.53	28.42	16.96
2	867.800	33.98	60.82	-26.84	4.51	22.24

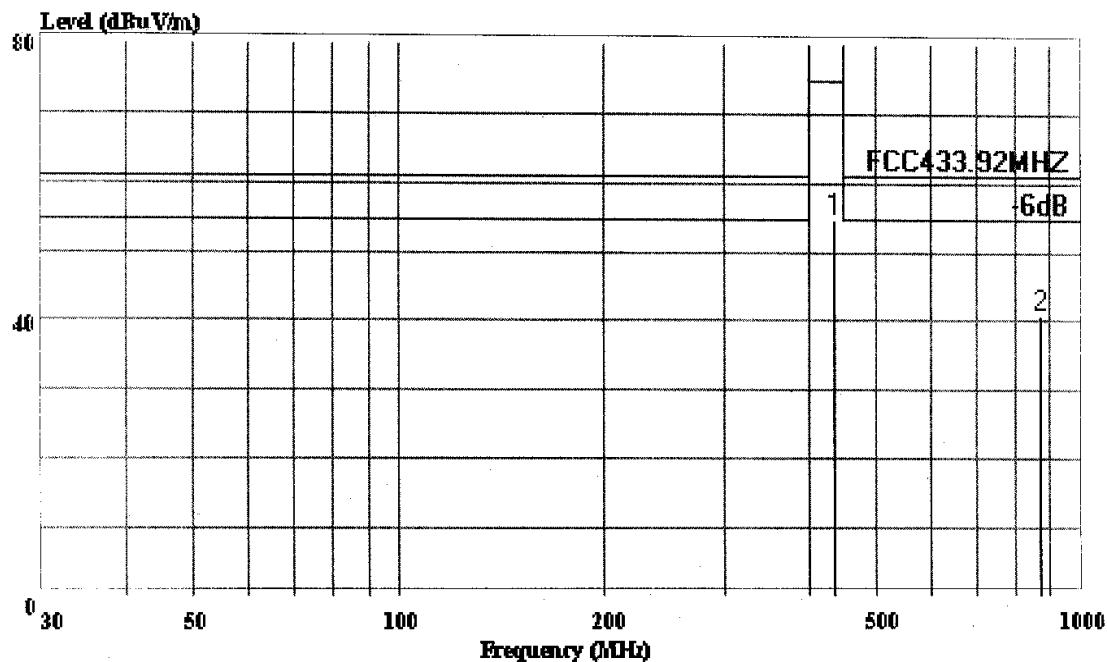


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Data#: 22 File#: Elyssa.EMI

Date: 2003-09-09 Time: 20:53:09

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

Trace:

Ref Trace:

Condition: FCC433.92MHZ 3m 2598FACTOR VERTICAL  
 FUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Engineer: Seco  
 Op: On  
 Memo : Temp:23' Humi:54%  
 : TX Channel B

Page: 1

	Freq	Limit Level	Over Line	Read Limit	Probe Level	Cable Factor	Cable Loss
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	433.900	54.68	80.82	-26.14	32.98	16.81	4.89
2	867.800	40.74	60.82	-20.08	10.59	22.89	7.26

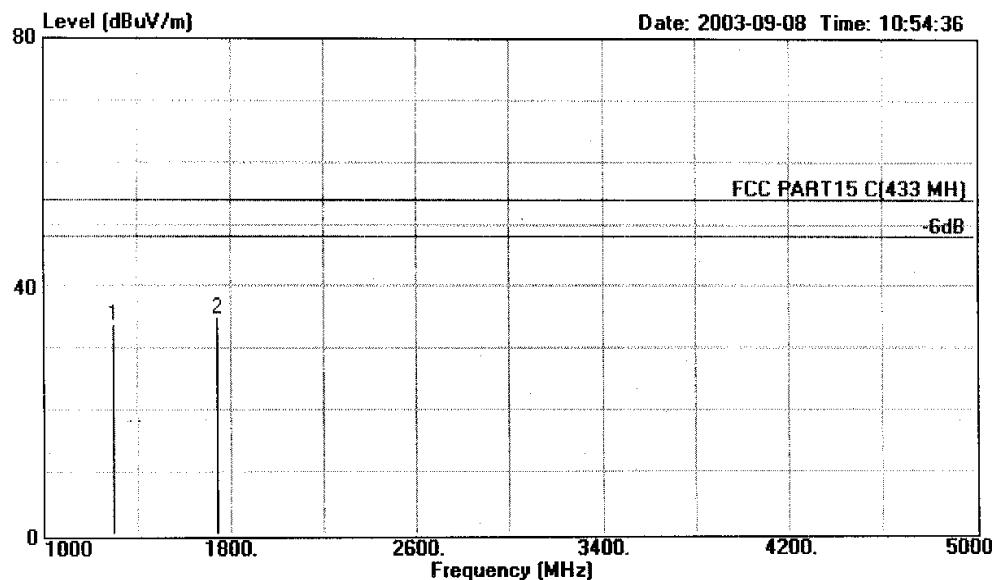


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Data#: 7 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C (433 MH) 3m 3115FACTOR HORIZONTAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23' Humi:54%  
 Memo : On  
 Memo : TX Channel A

	Over Limit	Read Line	Cable Loss	Probe Factor	Preamplifier Factor	Remarks
- Freq	Level	Limit	Level	Factor	Factor	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	1296.000	34.03	-19.97	54.00	44.17	2.38
						24.36 -10.14 36.88 Aver
2	1740.000	34.86	-19.14	54.00	41.57	2.75
						26.23 -6.71 35.69 Aver

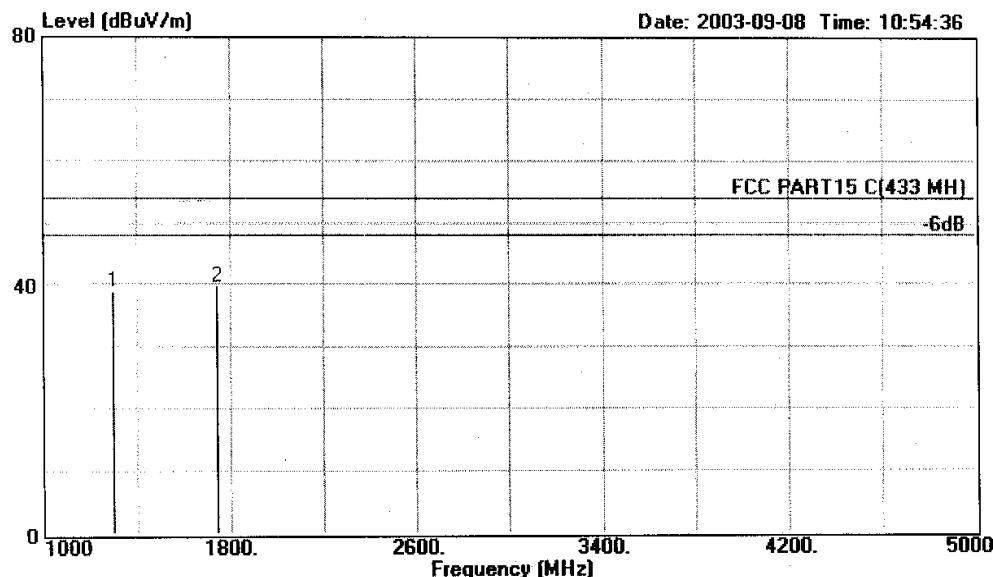


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Data#: 6 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR HORIZONTAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23' Humi:54%  
 Memo : On  
 Memo : TX Channel A

Freq	MHz	Over Limit		Read Line		Cable	Probe	Preamp	
		Level	Limit	Level	Line	Loss Factor	Factor	Factor	Preamp
1	1296.000	39.03	-14.97	54.00	49.17	2.38	24.36	-10.14	36.88 Peak
2	1740.000	39.86	-14.14	54.00	46.57	2.75	26.23	-6.71	35.69 Peak

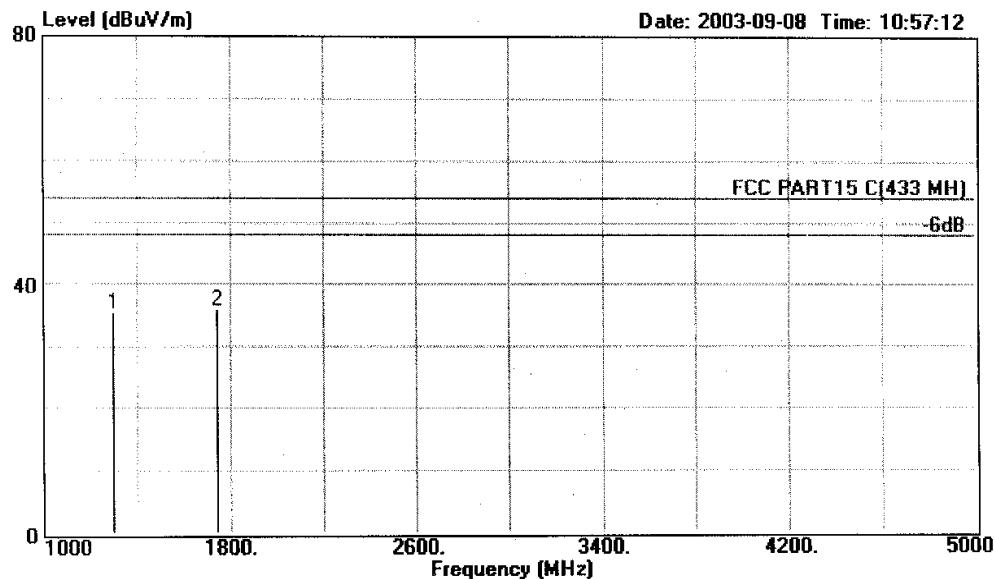


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 Tel:+86-755-26639496 Fax:+86-755-26632877

Data#: 10 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR VERTICAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23' Humi:54%  
 Memo : On  
 Memo : TX Channel A

		Over	Limit	Read	Cable	Probe	Preamp
Freq	Level	Level	Line	Level	Loss	Factor	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	1296.000	35.65	-18.35	54.00	45.79	2.38	24.36 -10.14 36.88 Aver
2	1740.000	36.03	-17.97	54.00	42.74	2.75	26.23 -6.71 35.69 Aver

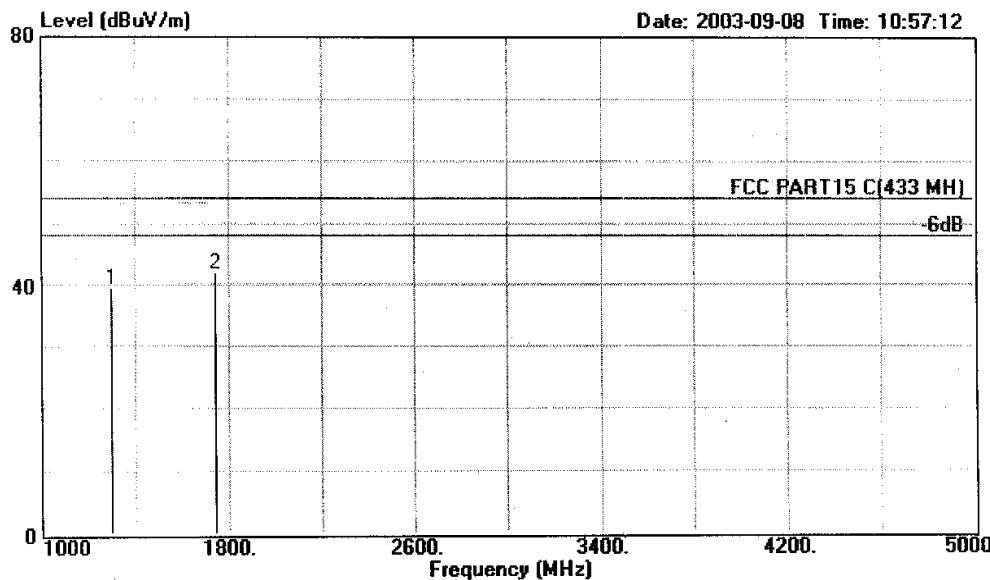


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Data#: 9 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR VERTICAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23' Humi:54%  
 Memo : On  
 Memo : TX Channel A

	Freq	Over Limit	Read Line	Cable Loss	Probe Factor	Preamp Factor	Remarks
	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB
1	1296.000	39.65	-14.35	54.00	49.79	2.38	24.36 -10.14 36.88 Peak
2	1740.000	42.03	-11.97	54.00	48.74	2.75	26.23 -6.71 35.69 Peak

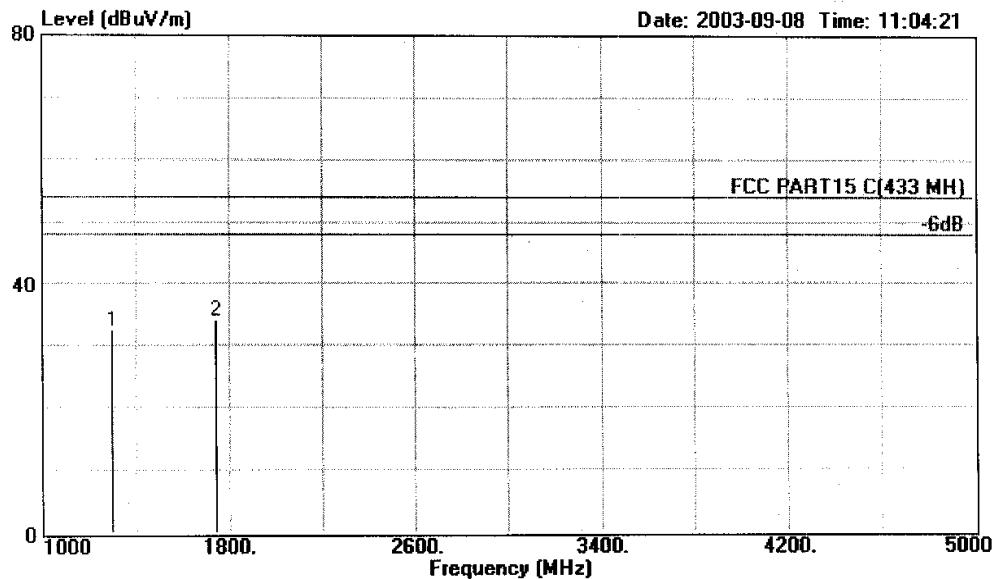


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Data#: 16 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR HORIZONTAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23' Humi:54%  
 Memo : On  
 Memo : TX Channel B

Freq	MHz	Over Limit	Read Line	Cable Loss	Probe Factor	Preamp	
						Factor	Factor
1	1296.000	32.61	-21.39	54.00	42.75	2.38	24.36
2	1740.000	34.09	-19.91	54.00	40.80	2.75	26.23

-10.14 36.88 Aver

-6.71 35.69 Aver

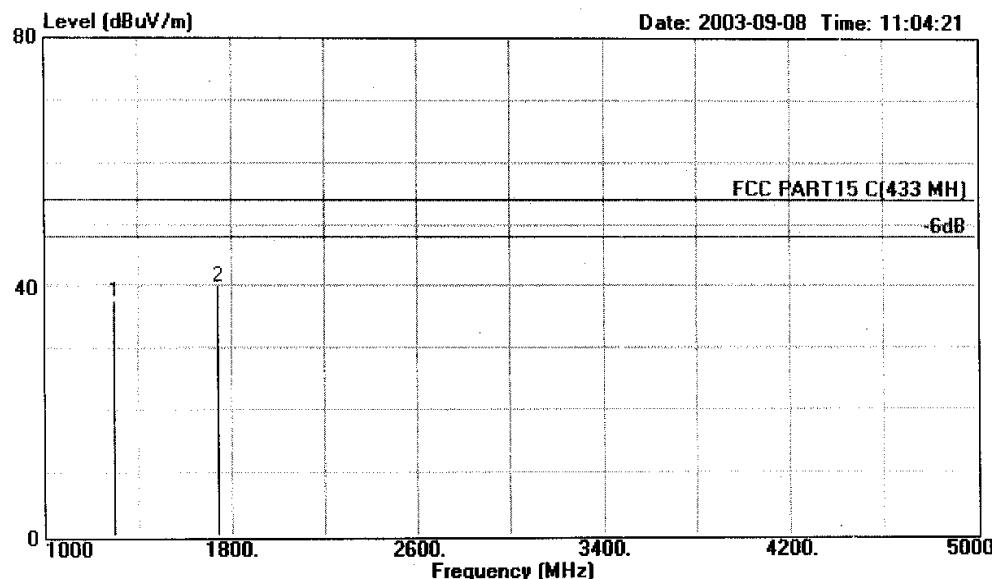


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Data#: 15 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR HORIZONTAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23° Humi:54%  
 Memo : On  
 Memo : TX Channel B

Freq	Over Limit	Read Line	Cable Loss	Probe Factor	Preamp			
					Level	Limit	Factor	Factor
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB
1 1296.000	37.61	-16.39	54.00	47.75	2.38	24.36	-10.14	36.88 Peak
2 1740.000	40.09	-13.91	54.00	46.80	2.75	26.23	-6.71	35.69 Peak

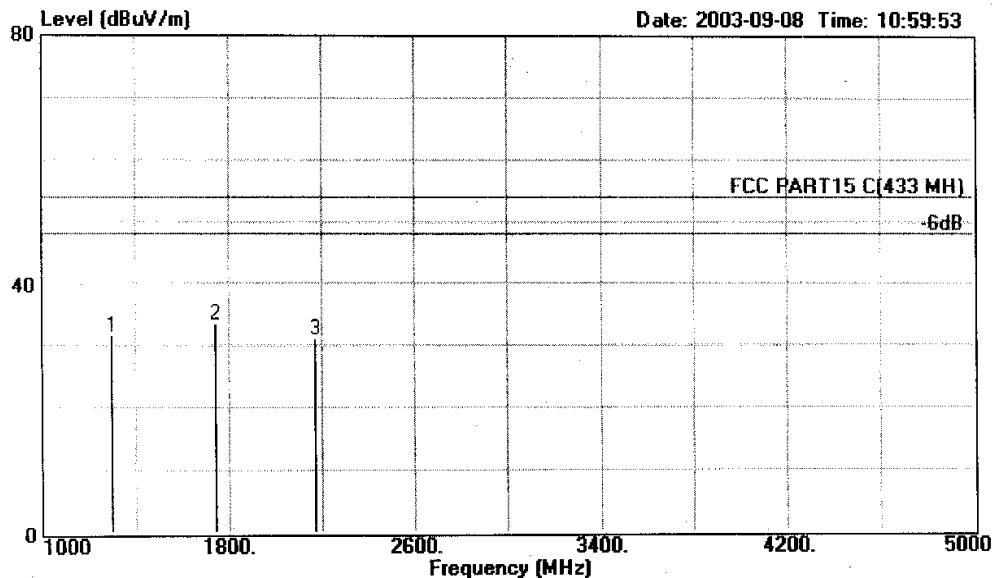


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Data#: 13 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR VERTICAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23' Humi:54%  
 Memo : On  
 Memo : TX Channel B

Freq	MHz	Over Limit	Read Line	Cable Loss	Probe Factor	Preamplifier		
						Factor	Factor	Reme
1	1296.000	31.63	-22.37	54.00	41.77	2.38	24.36	-10.14 36.88 Aver
2	1740.000	33.51	-20.49	54.00	40.22	2.75	26.23	-6.71 35.69 Aver
3	2168.000	31.18	-22.82	54.00	35.53	3.03	27.62	-4.35 35.00 Aver

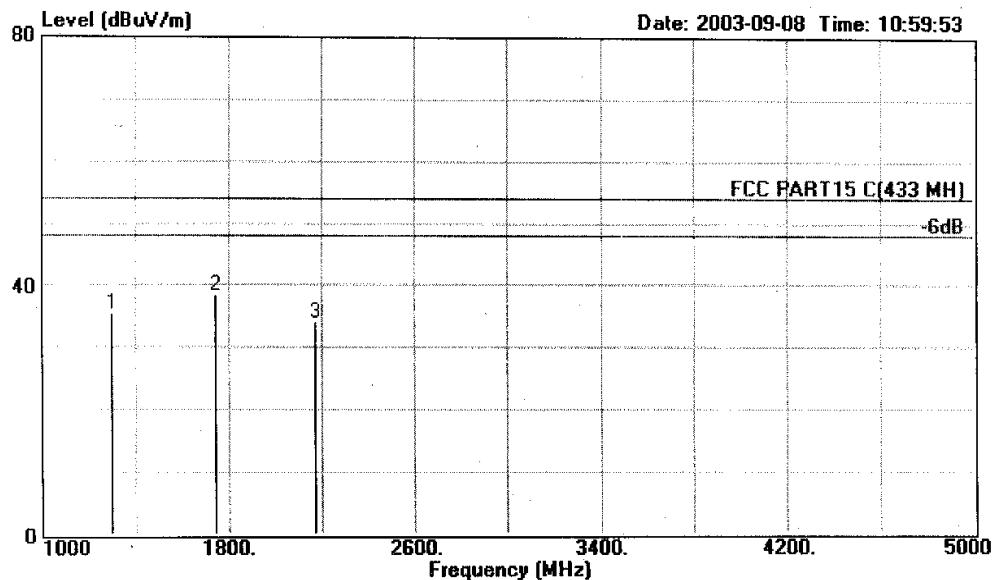


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Data#: 12 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR VERTICAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23' Humi:54%  
 Memo : On  
 Memo : TX Channel B

Freq	Level	Over Limit		Read Line	Cable Level	Probe Factor	Preamp Factor			Reme
		dB	dBuV/m				dB	dB	dB	
1	1296.000	35.63	-18.37	54.00	45.77	2.38	24.36	-10.14	36.88	Peak
2	1740.000	38.51	-15.49	54.00	45.22	2.75	26.23	-6.71	35.69	Peak
3	2168.000	34.18	-19.82	54.00	38.53	3.03	27.62	-4.35	35.00	Peak

## 4. BANDWIDTH TEST

### 4.1. Test Equipment

The following test equipments are used during the bandwidth test:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Jun 22, 03	1 Y
2.	Antenna	EMCO	3115	9607-4877	Dec 02, 02	1.5 Y
3.	Print				N/A	N/A

### 4.2. Test Standard

The test completeness FCC 15.231.

### 4.3. Bandwidth Limit

The minimum 6dB bandwidth shall be at least 500KHz.

### 4.4. Test Procedure

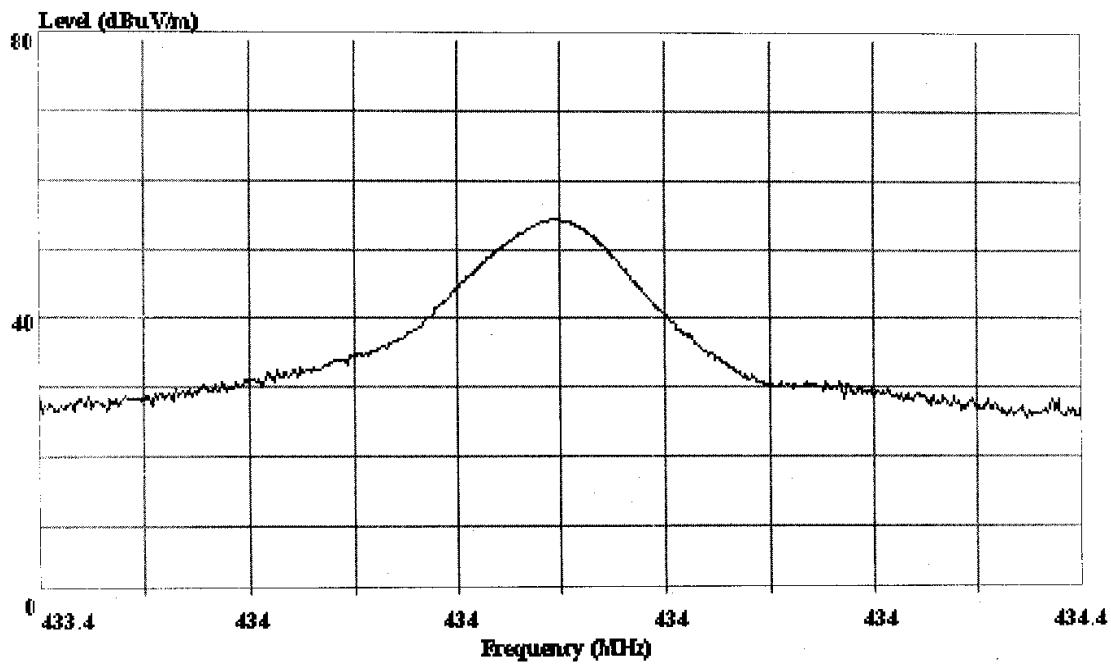
**PASS.**



Shenzhen Science & Ind. Park  
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Fax: 0755-26632877

Data#: 10 File#: Elyssa.EMI

Date: 2003-09-06 Time: 16:00:30



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

Trace:

Ref Trace:

Condition: FCC433.92MHZ 3m 2598FACTOR VERTICAL.  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Engineer: Seco  
 On: On  
 Memo : Temp:23' Humi:54%  
       : TX Channel A

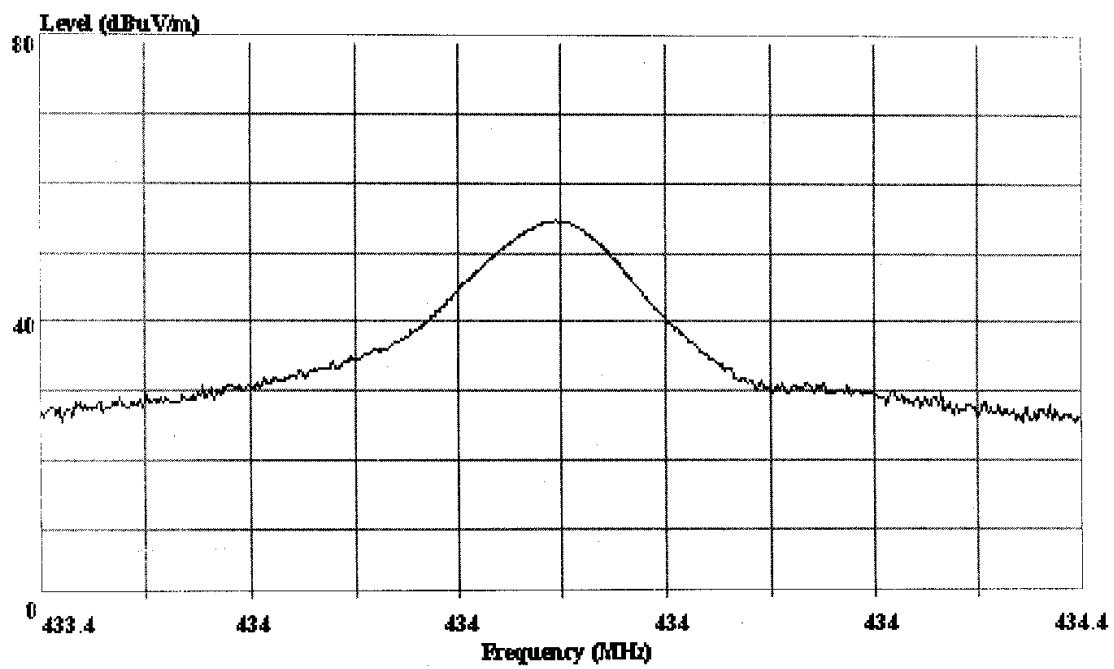


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park  
Tel: 0755-26639495~7  
Fax: 0755-26632877

Data#: 11 File#: Elyssa.EMI

Date: 2003-09-06 Time: 16:03:21



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

Trace:

Ref Trace:

Condition: 3m 2.598FACTOR VERTICAL  
EUT : 2 Channel Wireless Remote Control System  
M/N : FWC-2  
Power : Battery Input DC12V  
Engineer: Seco  
Op: On  
Memo : Temp:23' Humi:54%  
: TX Channel B

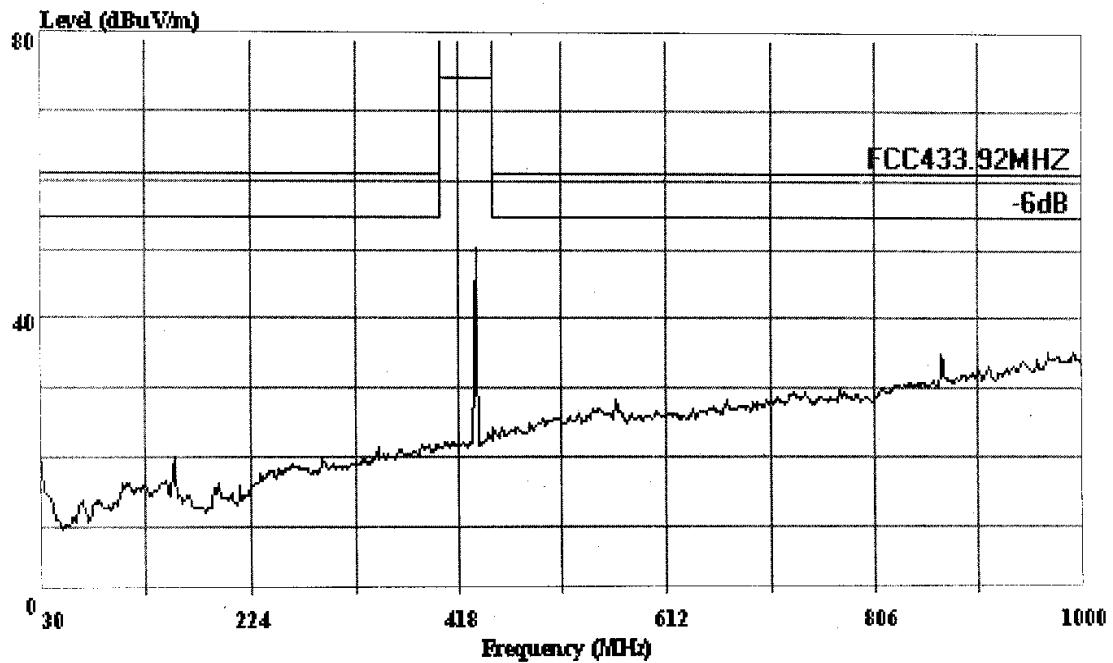
## APPENDIX I



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park  
 Tel: 0755-26639495~7  
 Fax: 0755-26632877

Data#: 8 File#: Elyssa.EMI Date: 2003-09-06 Time: 15:55:16



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

Trace:

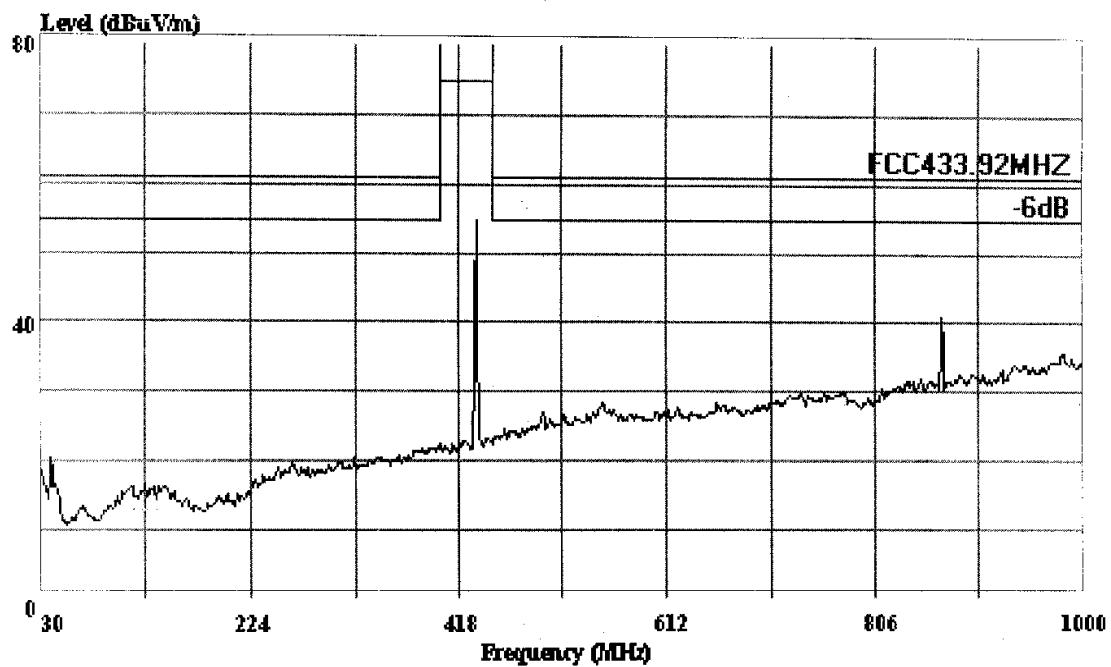
Ref Trace:

Condition: FCC433.92MHZ 3m 2.598FACTOR HORIZONTAL.  
 FUT : 2 Channel Wireless Remote Control System  
 M/N : FWC-2  
 Power : Battery Input DC12V  
 Engineer:: Seco  
 Op: : On  
 Memo : Temp:23' Humi:54%  
 : TX Channel A



Shenzhen Science & Ind. Park  
Tel: 0755-26639495~7  
Fax: 0755-26632877

Data#: 7 File#: Elyssa.EMI Date: 2003-09-06 Time: 15:50:52



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

Trace:

Ref Trace:

Condition: FCC433.92MHZ 3m 2598FACTOR VERTICAL.  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : FWC-2  
 Power : Battery Input DC12V  
 Engineer: Seco  
 Op: On  
 Memo : Temp:23' Humi:54%  
 : TX Channel A

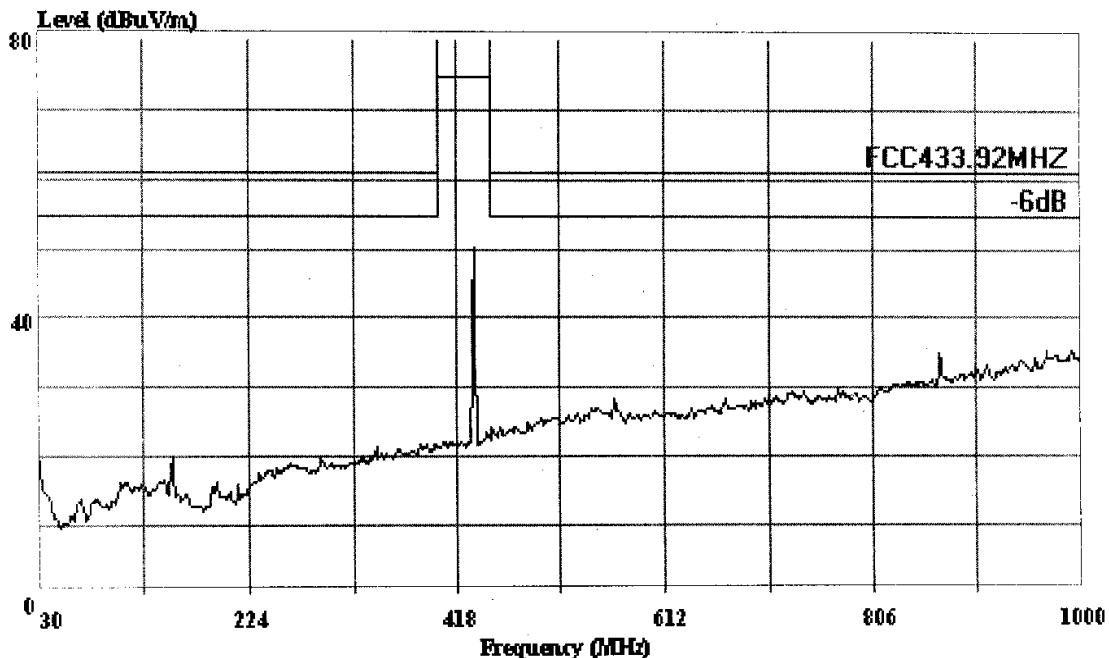


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park  
 Tel: 0755-26639495~7  
 Fax: 0755-26632877

Data#: 13 File#: Elyssa.EMI

Date: 2003-09-08 Time: 15:43:16

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

Trace:

Ref Trace:

Condition: FCC433.92MHZ 3m 2598FACTOR HORIZONTAL  
 FUT : 2 Channel Wireless Remote Control System  
 M/N : FWC-2  
 Power : Battery Input DC12V  
 Engineer: Seco  
 Op: On  
 Memo : Temp:23' Humi:54%  
 : TX Channel B

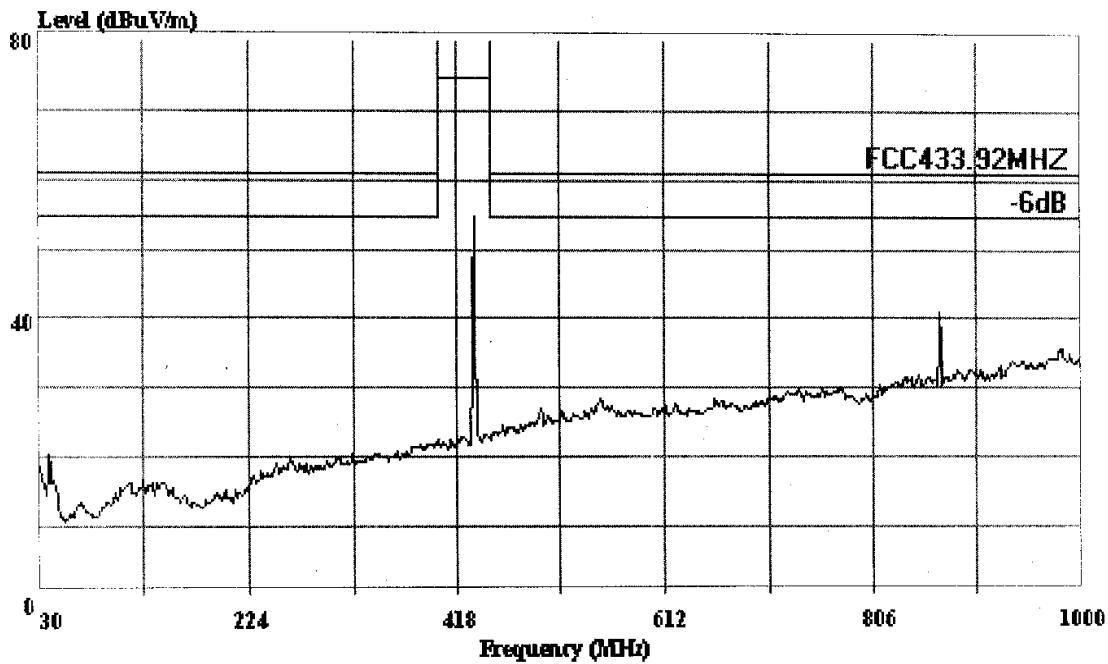


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park  
 Tel: 0755-26639495~7  
 Fax: 0755-26632877

Data#: 14 File#: Elyssa.EMI

Date: 2003-09-08 Time: 15:59:52



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

Trace:

Ref Trace:

Condition: FCC433.92MHZ 3m 2598FACTOR VERTICAT.  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Engineer: Seco  
 Op: On  
 Memo : Temp:23° Humi:54%  
 : TX Channel B

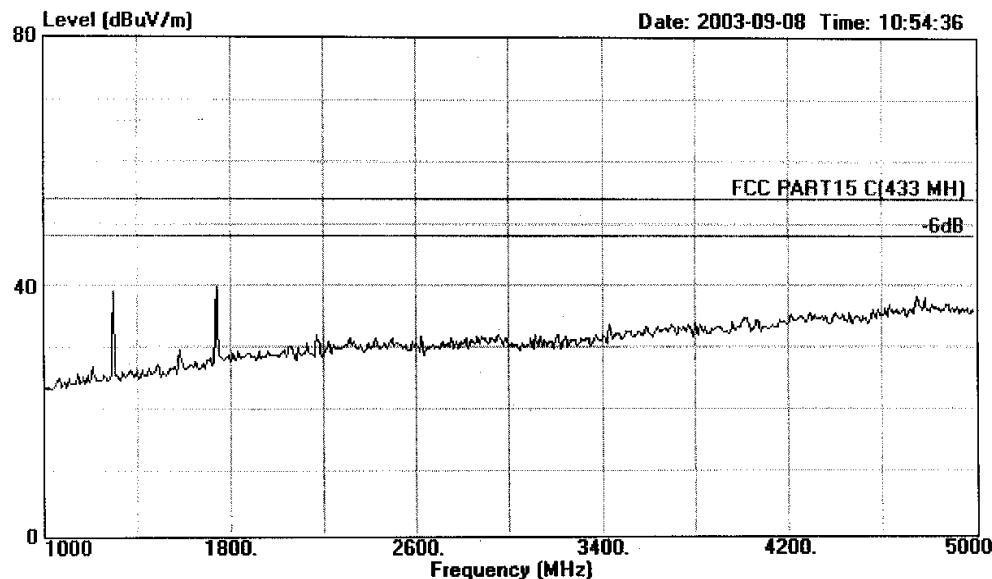


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Data#: 5 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR HORIZONTAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23° Humi:54%  
 Memo : On  
 Memo : TX Channel A

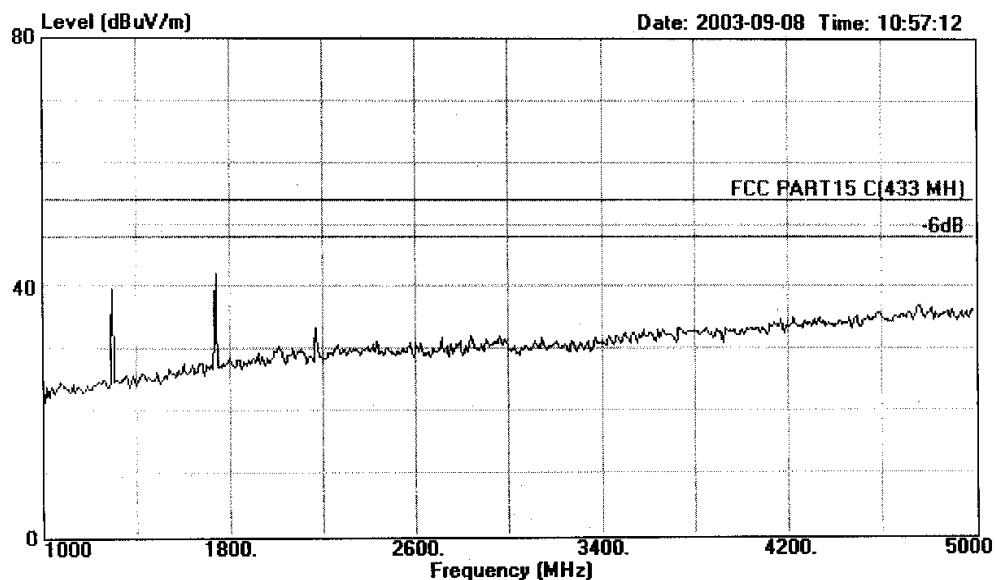


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Data#: 8 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR VERTICAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23° Humi:54%  
 Memo : On  
 Memo : TX Channel A

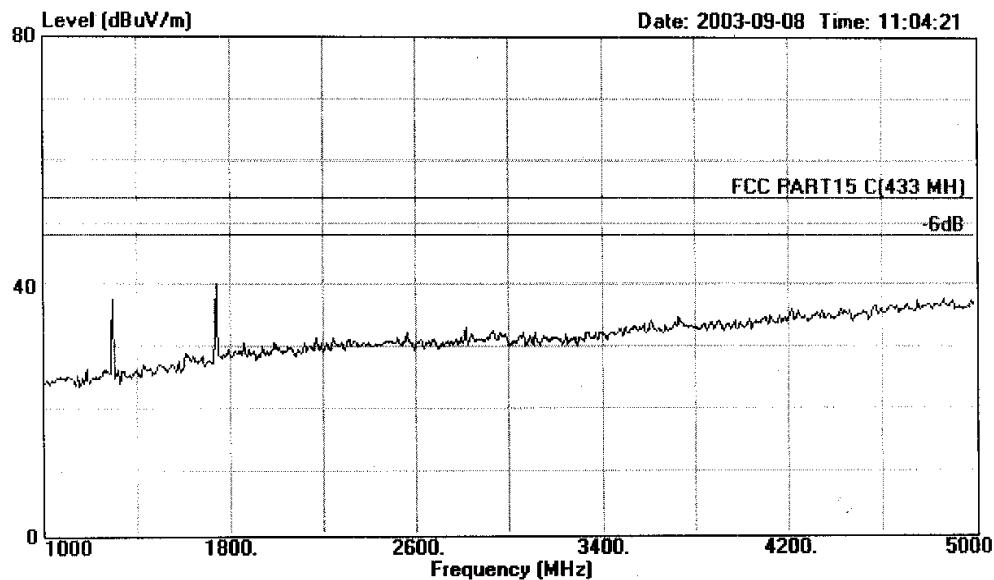


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Data#: 14 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR HORIZONTAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23° Humi:54%  
 Memo : On  
 Memo : TX Channel B

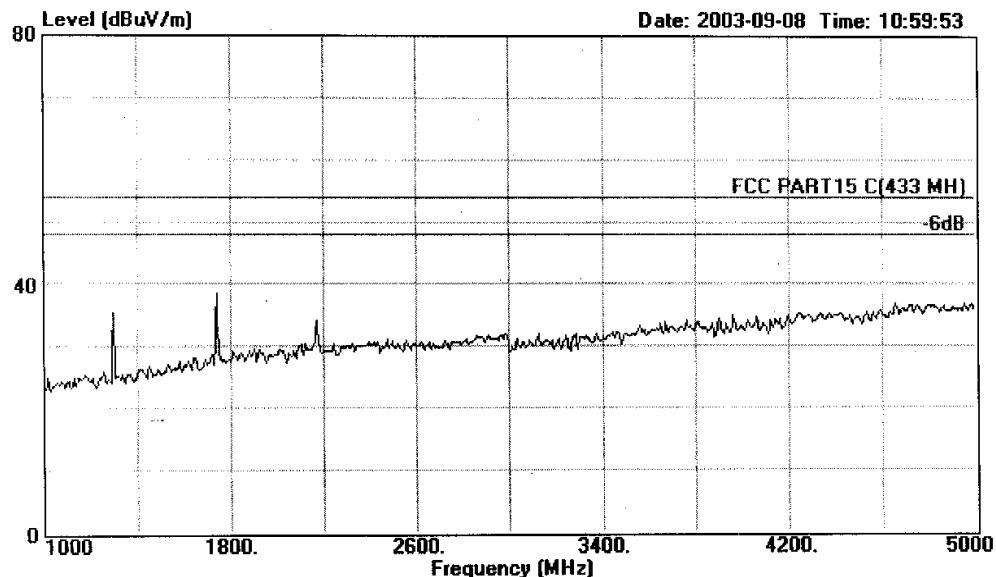


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Data#: 11 File#: C:\EMI TEST DATA\E\Elyssa.EMI



Site : 1# Chamber  
 Condition : FCC PART15 C(433 MH) 3m 3115FACTOR VERTICAL  
 EUT : 2 Channel Wireless Remote Control System  
 M/N : EWC-2  
 Power : Battery Input DC12V  
 Test Engineer : Seco  
 Memo : Temp:23° Humi:54%  
 Memo : On  
 Memo : TX Channel B