

Freetron (Far East) Co., Ltd.

RF Wireless Joypad For Xbox

Model Number: 04034RX

Prepared for : Freetron (Far East) Co., Ltd.
Block 11, Wan Feng Da Zhong Jiang Ind. Estate,
Sha Jing Zhen, Bao An Xian, Shenzhen, China.

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
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Report Number : ACS-F04188
Date of Test : Jun.25~29, 2004
Date of Report : Jun.29, 2004

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APPENDIX I	(5 pages)
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TEST REPORT DECLARATION

Applicant : Freetron (Far East) Co., Ltd.
 Manufacturer : Freetron (Far East) Co., Ltd.
 EUT Description : RF Wireless Joypad For Xbox
 (A) MODEL NO. : 04034RX
 (B) SERIAL NO. : F2004062901
 (C) POWER SUPPLY : DC 3.6V~4.8V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Aug. 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 : Jun.25~29, 2004

Prepared by :

Jane Dai
 Jane Dai / Assistant

Reviewer :

Lake Wang
 Lake Wang / Supervisor

Approved & Authorized Signer :



Alex Deng / Assistant Manager

Name of the Representative of the Responsible Party : _____

Signature : _____

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : RF Wireless Joypad For Xbox

Model Number : 04034RX

Applicant : Freetron (Far East) Co., Ltd.
Block 11, Wan Feng Da Zhong Jiang Ind. Estate,
Sha Jing Zhen, Bao An Xian, Shenzhen, China.

Manufacturer : Freetron (Far East) Co., Ltd.
Block 11, Wan Feng Da Zhong Jiang Ind. Estate,
Sha Jing Zhen, Bao An Xian, Shenzhen, China.

Date of Test : Jun.25~29, 2004

1.2. Tested Supporting System Details

1.2.1. Power Adaptor

Model Number : 28-D04-300

Manufacturer : Freetron

Cable : Unshielded, Undetachable, 1.8m

1.2.2. Xbox

Serial Number : 602167624505

Manufacturer : Microsoft

1.3. Test Facility

Site Description

3m Anechoic Chamber : Certificated by FCC, USA
Aug. 15, 2003

3m & 10m Anechoic Chamber : Certificated by FCC, USA
Mar. 15, 2004

EMC Lab. : Certificated by DATech, German
Feb. 02, 2004

Certificated by NVLAP, USA
NVLAP Code: 200372-0
Mar. 31, 2004

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

1.4. Test Uncertainty

Conducted Emission Uncertainty = $\pm 2.66\text{dB}$

Radiated Emission Uncertainty = $\pm 4.26\text{dB}$

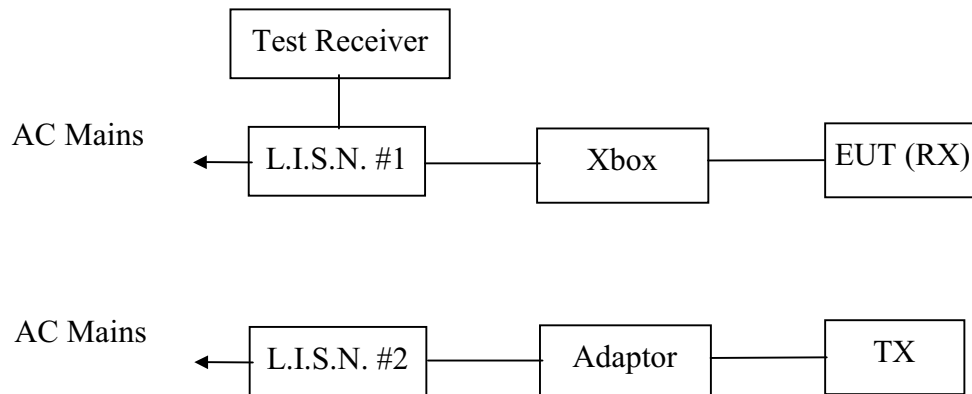
2. POWER LINE CONDUCTED EMISSION TEST

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	ESHS10	838693/001	May 24,04	1 Year
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-541-4	May 24,04	1 Year
3.	L.I.S.N. #2	R&S	ESH2-Z5	834066/011	May 24,04	1 Year
4.	Terminator	EMCO	50Ω	No. 1	May 24,04	1 Year
5.	Terminator	EMCO	50Ω	No. 2	May 24,04	1 Year
6.	RF Cable	FUJIKURA	RG-55/U	LISN Cable	Feb.20, 04	1/2 Year
7.	Coaxial Switch	Anritsu	MP59B	M55367	May 29, 04	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: RF Wireless Joypad For Xbox)

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. RF Wireless Joypad For Xbox (EUT)

Model Number	:	04034RX
Serial Number	:	F2004062901
Manufacturer	:	Freetron (Far East) Co., 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 (Channel 01/Channel 04) and measure it.

2.6. Test Procedure

The EUT is connected to the Xbox and Xbox power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. Power on the EUT and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2001 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.

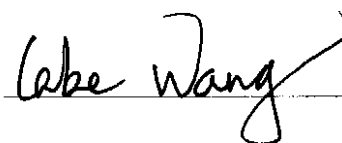
The frequency range from 150KHz to 30 MHz is investigated.

All emissions not reported below are too low against the prescribed limits.

Date of Test:	Jun.27, 2004	Temperature:	23°C
EUT:	RF Wireless Joypad For Xbox	Humidity:	54%
M/N:	04034RX	Test Mode:	Channel 04
Test Engineer:	Seco		

Frequency (MHz)	Reading (dBμV)				Limit (dBμV)	
	VA		VB		Quasi-Peak	Average
	Quasi-Peak	Average	Quasi-Peak	Average		
0.185	*	*	27.70	24.68	64.24	54.24
0.206	29.13	26.13	*	*	63.36	53.36
0.283	18.76	15.76	*	*	60.72	50.72
0.315	*	*	11.61	9.61	59.84	49.84
1.560	*	*	11.11	8.11	56.00	46.00
1.568	13.28	11.28	*	*	56.00	46.00
3.025	*	*	15.42	13.42	56.00	46.00
3.346	14.05	11.05	*	*	56.00	46.00
7.852	17.76	14.76	*	*	60.00	50.00
8.869	*	*	19.24	16.24	60.00	50.00
27.708	38.21	34.21	*	*	60.00	50.00
28.603	*	*	36.69	31.69	60.00	50.00

*** As the QP value is too low against AV limit, So AV Value had been omitted.

Reviewer : 

3. RADIATED EMISSION TEST

3.1. Test Equipment

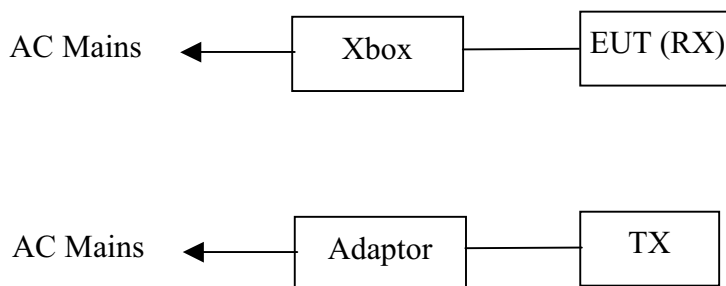
The following test equipments are used during the radiated emission Test :

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Spectrum	HP	8591EM	3628A00914	May 24, 04	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May 24, 04	1 Year
3.	Amplifier	HP	8447D	2944A07794	Mar.17, 04	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Jan. 13, 04	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	Feb. 01, 04	1/2 Year
8.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Feb. 01, 04	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Feb. 01, 04	1/2 Year
10.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Feb. 01, 04	1/2 Year
11.	Coaxial Switch	Anritsu	MP59B	M73989	May 27, 04	1/2 Year
12.	Spectrum	Agilent	E4407B	MY41440292	May 24, 04	1 Year
13.	Amp	HP	8449B	3008A00863	May 24, 04	1 Year
14.	Antenna	EMCO	3115	9607-4877	Dec. 02, 02	1.5 Year

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators

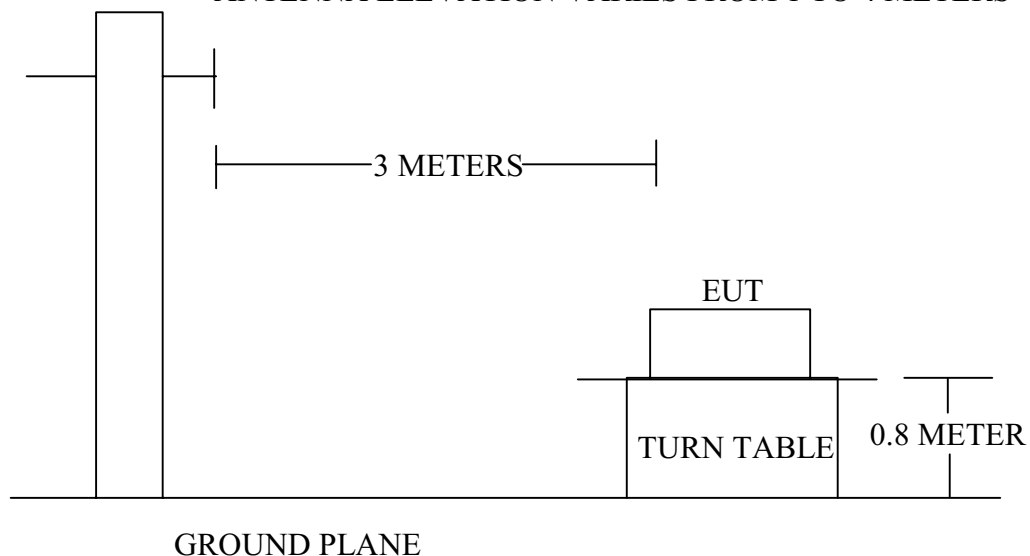


(EUT: RF Wireless Joypad For Xbox)

3.2.2. Anechoic Chamber Setup Diagram

ANTENNA TOWER

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



3.3. Radiated Emission Limit 30~1000MHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Local Oscillator: 114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (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. RF Wireless Joypad For Xbox (EUT)

Model Number	:	04034RX
Serial Number	:	F2004062901
Manufacturer	:	Freetron (Far East) Co., 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 (Channel 01/Channel 04) 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 C63.4-2001 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120KHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 300KHz and RBW is set at 120KHz for measurement below 1GHz.

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

The test modes (Channel 01/Channel 04) 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 :	Jun.29, 2004	Temperature :	24°C
EUT :	RF Wireless Joypad For Xbox	Humidity :	54%
Model No. :	04034RX	Test Mode :	Channel 04
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
40.670	12.84	1.21	20.03	34.07	-5.93	40.00
176.470	9.90	2.79	14.83	27.52	-15.98	43.50
269.590	12.86	3.46	18.26	34.58	-11.42	46.00
303.540	13.60	3.85	15.03	32.48	-13.52	46.00
361.740	15.60	4.26	11.60	31.46	-14.54	46.00
832.190	21.94	7.05	8.96	37.95	-8.05	46.00

Remark: 1. All readings are Quasi-Peak values.

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

3. The worst emission was detected at 40.670MHz with corrected signal level of 34.07dBμV/m(Limit is 40.00 dBμV/m) when the antenna was at horizontal polarization and at 1.90m high and the turn table was at 326 ° .

4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Wabe Wang

Date of Test :	Jun.27, 2004	Temperature :	24°C
EUT :	RF Wireless Joypad For Xbox	Humidity :	54%
Model No. :	04034RX	Test Mode :	Channel 04
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
57.160	5.83	1.46	19.32	26.61	-13.39	40.00
290.930	13.37	3.75	20.78	37.89	-8.11	46.00
338.460	14.38	4.14	23.19	41.71	-4.29	46.00
361.740	14.82	4.26	21.39	40.47	-5.53	46.00
385.990	15.65	4.48	20.03	40.17	-5.83	46.00
769.140	21.57	6.89	10.52	38.98	-7.02	46.00

- Remark: 1. All readings are Quasi-Peak values.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
 3. The worst emission was detected at 338.460MHz with corrected signal level of 41.71dBμV/m(Limit is 46.00dBμV/m) when the antenna was at vertical polarization and at 1.0m high and the turn table was at 0 ° .
 4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Wabe Wang

Date of Test :	Jun.25, 2004	Temperature :	23.6°C
EUT :	RF Wireless Joypad For Xbox	Humidity :	54.3%
Model No. :	04034RX	Test Mode :	Channel 01
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	Remark
2402.000	28.04	3.20	26.95	58.19	-35.81	94.00	Average
2402.000	28.04	3.20	30.95	62.19	-51.81	114.00	Peak
2448.000	28.14	3.23	27.82	59.19	-34.81	94.00	Average
2448.000	28.14	3.23	34.03	65.40	-48.60	114.00	Peak

Remark: 1. All readings are Average and Peak values.
2. Emission Level = Antenna Factor + Meter Reading + Cable Loss
3. The bandwidth of the VBW is set at 1MHz and RBW is set at 1MHz for measurement above 1GHz.

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	Remark
2402.360	28.04	3.20	27.95	59.19	-34.81	94.00	Average
2402.360	28.04	3.20	31.04	62.28	-51.72	114.00	Peak
2448.000	28.14	3.23	27.82	59.19	-34.81	94.00	Average
2448.000	28.14	3.23	34.53	65.90	-48.10	114.00	Peak

Remark: 1. All readings are Average and Peak values.
2. Emission Level = Antenna Factor + Meter Reading + Cable Loss
3. The bandwidth of the VBW is set at 1MHz and RBW is set at 1MHz for measurement above 1GHz.

Reviewer : Wabe Wang

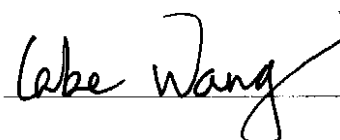
Date of Test :	Jun.25, 2004	Temperature :	23.6°C
EUT :	RF Wireless Joypad For Xbox	Humidity :	54.3%
Model No. :	04034RX	Test Mode :	Channel 04
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2426.000	28.11	3.22	27.84	59.17	-34.83	94.00	Average
2426.000	28.11	3.22	35.57	66.90	-47.10	114.00	Peak
2472.000	28.20	3.26	24.75	56.21	-37.79	94.00	Average
2472.000	28.20	3.26	35.75	67.21	-46.79	114.00	Peak

Remark: 1. All readings are Average and Peak values.
 2. Emission Level = Antenna Factor + Meter Reading + Cable Loss
 3. The bandwidth of the VBW is set at 1MHz and RBW is set at 1MHz for measurement above 1GHz.

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2426.000	28.11	3.22	27.58	58.91	-35.09	94.00	Average
2426.000	28.11	3.22	35.17	66.50	-47.50	114.00	Peak
2472.000	28.20	3.26	28.13	59.59	-34.41	94.00	Average
2472.000	28.20	3.26	36.08	67.54	-46.46	114.00	Peak

Remark: 1. All readings are Average and Peak values.
 2. Emission Level = Antenna Factor + Meter Reading + Cable Loss
 3. The bandwidth of the VBW is set at 1MHz and RBW is set at 1MHz for measurement above 1GHz.

Reviewer : 



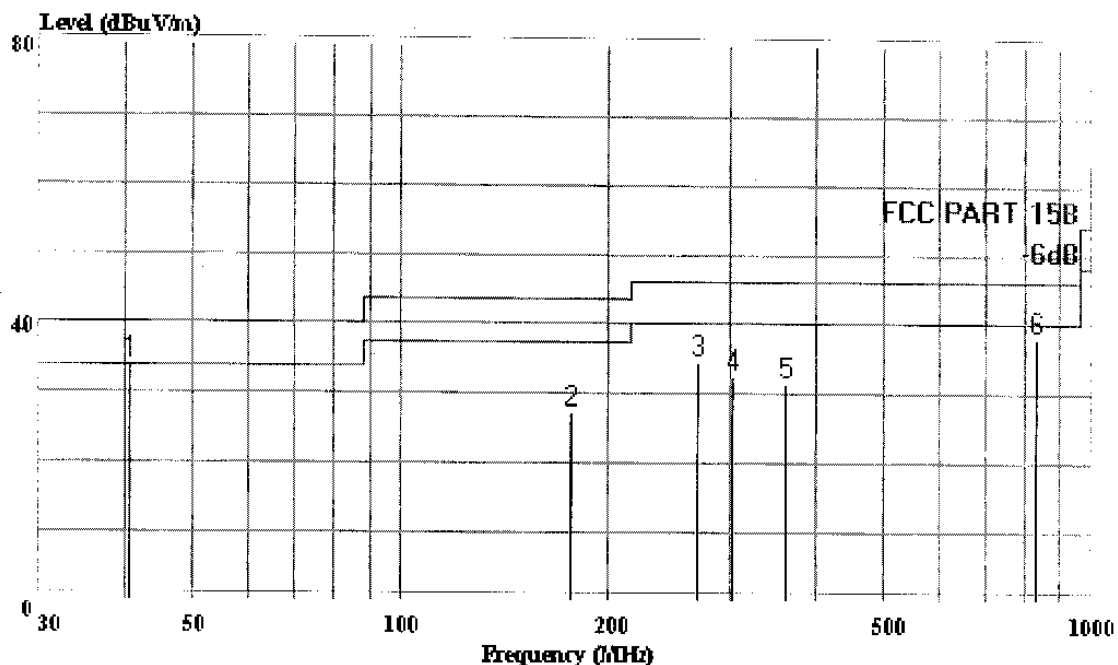
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Data#: 32 File#: Freetron.emi Date: 2004-06-29 Time: 14:53:20



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : RF Wireless joypad for xbox

M/N : 04034Rx

Power : DC 4.5V With xbox AC Input 120V/60Hz

Engineer: Seco

Comment : Temp:24'C Humi:54%

Memo : Channel 04

: AntPos:1.9m TablePos:326'

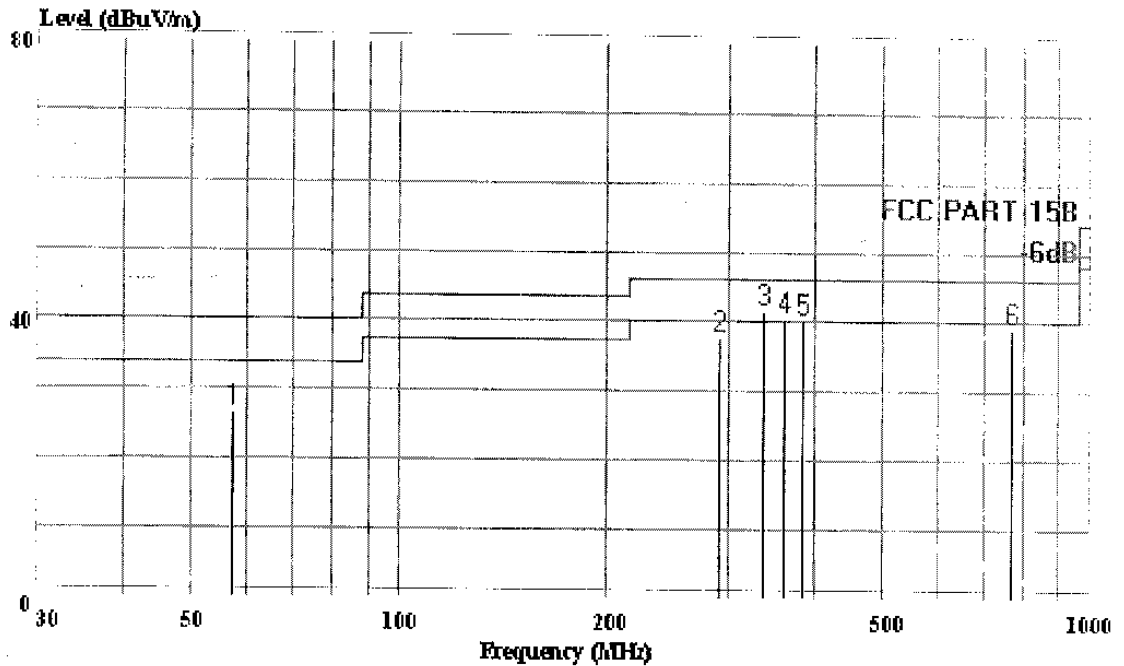
Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1 !	40.670	34.07	-5.93	40.00	20.03	12.84	1.21
2	176.470	27.52	-15.98	43.50	14.83	9.90	2.79
3	269.590	34.58	-11.42	46.00	18.26	12.86	3.46
4	303.540	32.48	-13.52	46.00	15.03	13.60	3.85
5	361.740	31.46	-14.54	46.00	11.60	15.60	4.26
6	832.190	37.95	-8.05	46.00	8.96	21.94	7.05



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

Data#: 30 File#: Freetron.emi Date: 2004-06-27 Time: 09:56:22



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
EUT : RF Wireless joystick for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Engineer: Seco
Comment : Temp:24'C Humi:54%
Memo : Channel 04
: AntPos:1.0m TablePos:0'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	57.160	26.61	-13.39	40.00	19.32	5.83	1.46
2	290.930	37.89	-8.11	46.00	20.78	13.37	3.75
3 !	338.460	41.71	-4.29	46.00	23.19	14.38	4.14
4 !	361.740	40.47	-5.53	46.00	21.39	14.82	4.26
5 !	385.990	40.17	-5.83	46.00	20.03	15.65	4.48
6	769.140	38.98	-7.02	46.00	10.52	21.57	6.89

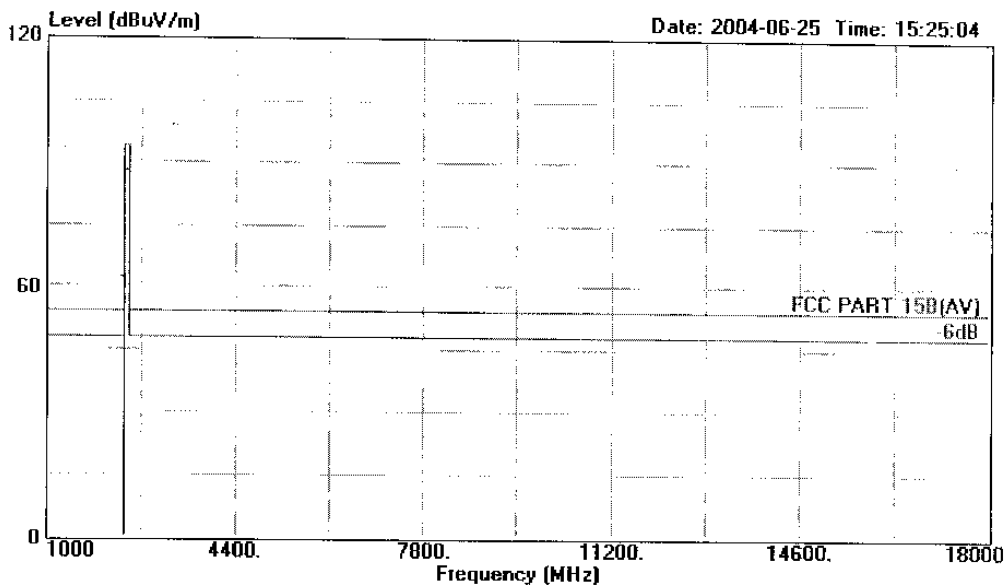


信華科技(深圳)有限公司

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

Data#: 37 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 01

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2402.000	58.19	-35.81	94.00	26.95	28.04	3.20	Average

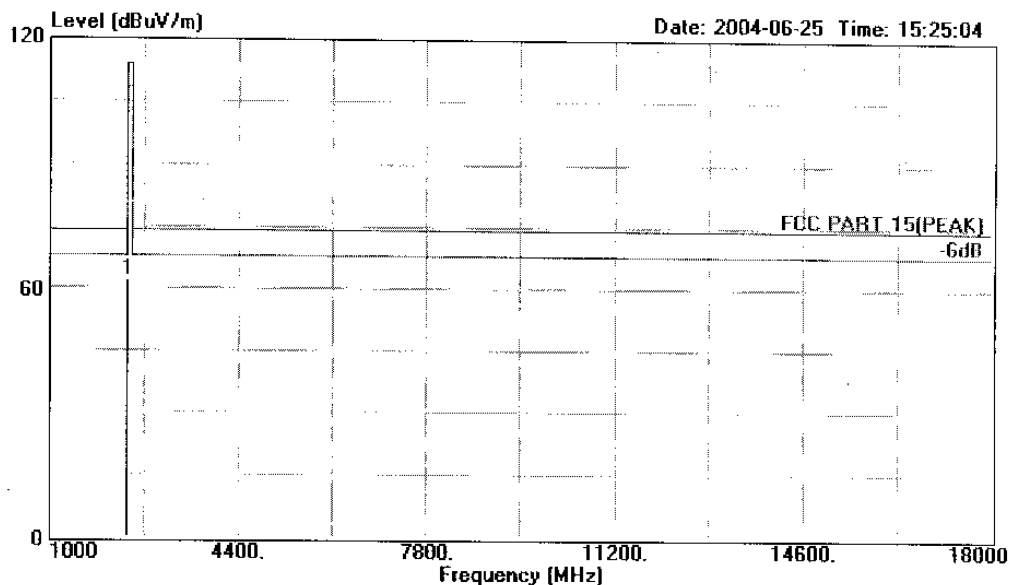


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Data#: 36 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joyypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 01

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2402.000	62.19	-51.81	114.00	30.95	28.04	3.20	Peak

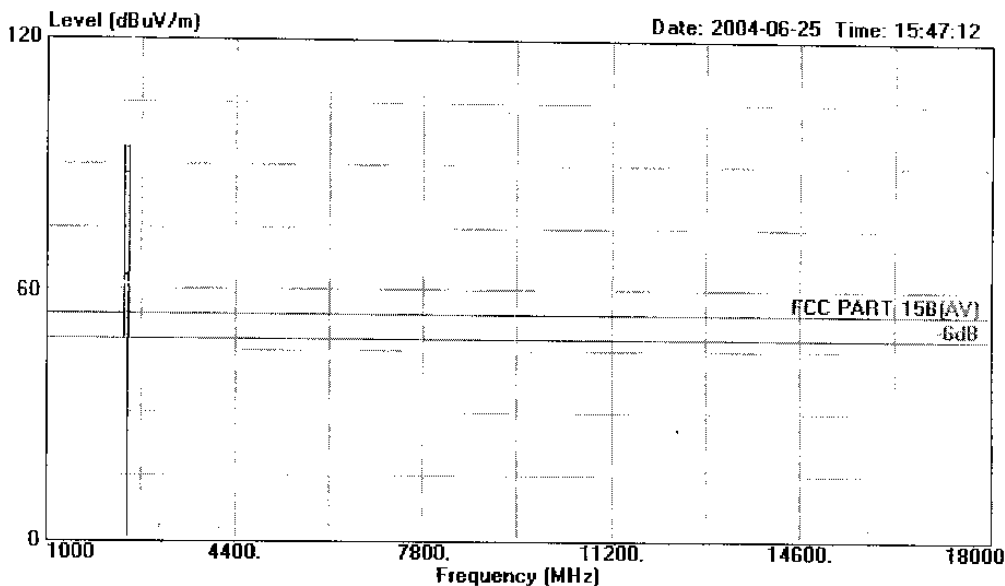


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Data#: 46 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 01

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2448.000	59.19	-34.81	94.00	27.82	28.14	3.23	Average

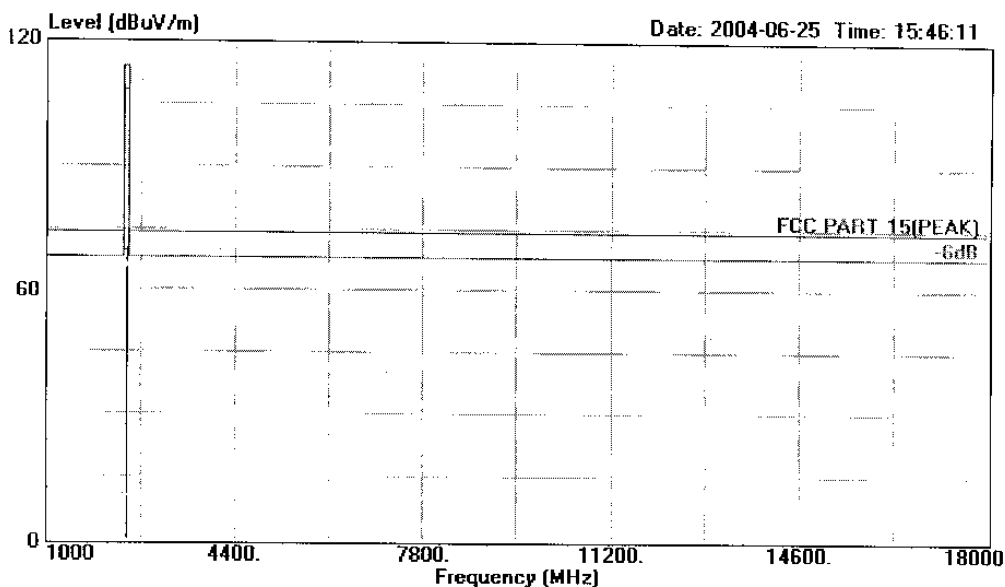


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Data#: 45 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 01

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2448.000	65.40	-48.60	114.00	34.03	28.14	3.23	Peak

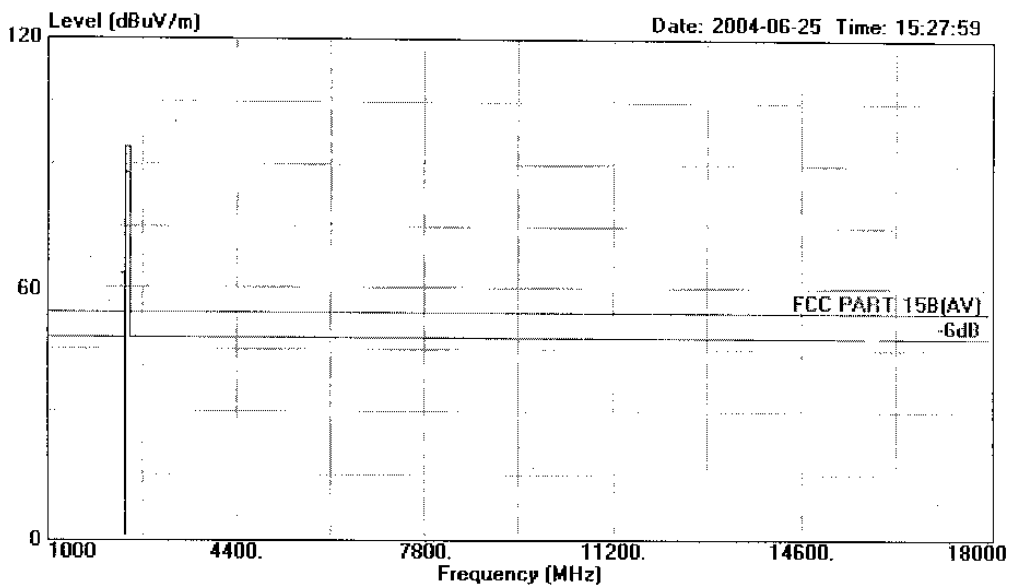


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Data#: 40 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 01

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2402.360	59.19	-34.81	94.00	27.95	28.04	3.20	Average

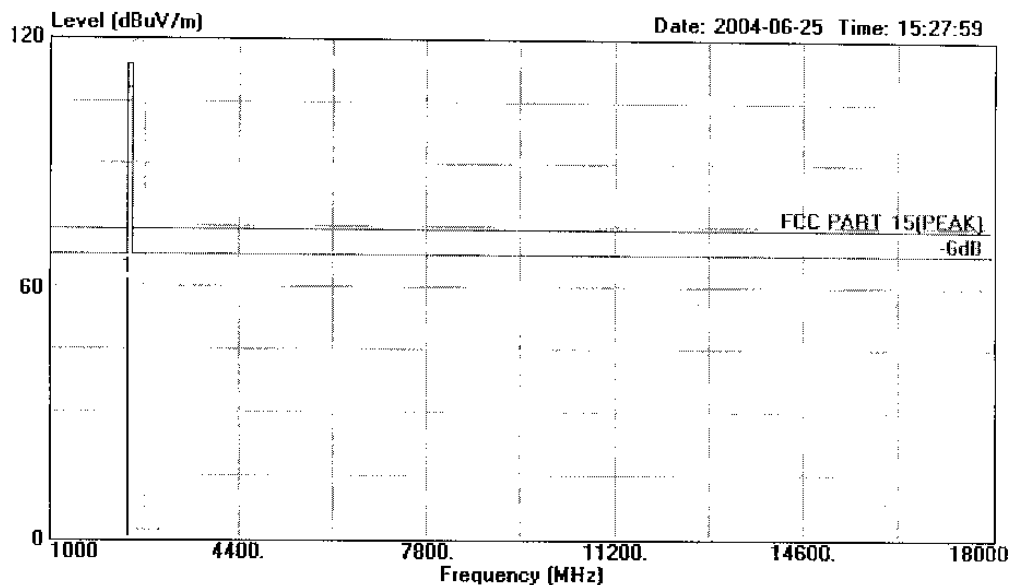


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Data#: 39 File#: C:\EMI TEST DATA\F\Freestron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joyypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 01

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2402.360	62.28	-51.72	114.00	31.04	28.04	3.20	Peak

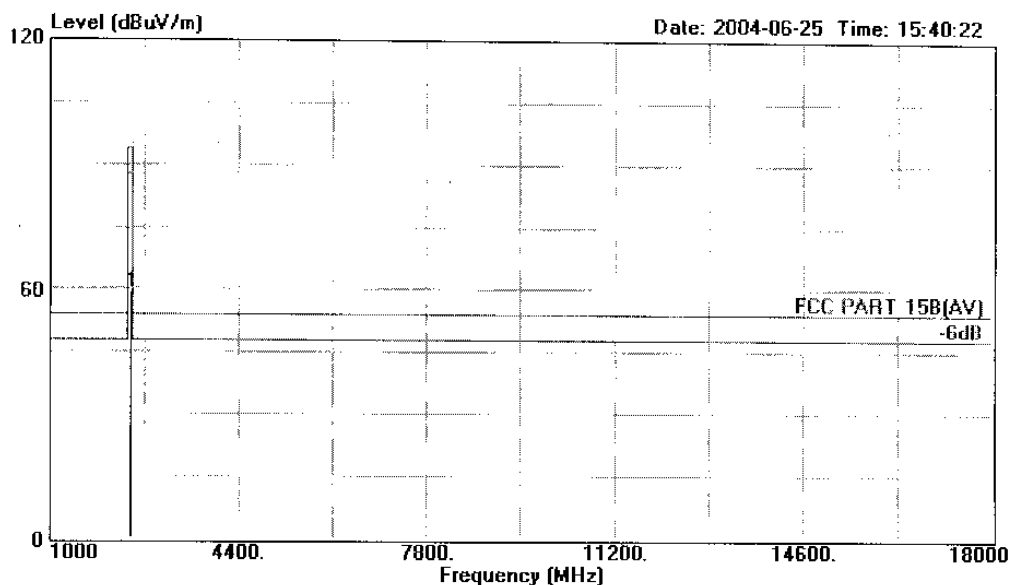


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Data#: 43 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 01

			Over	Limit	Read	Probe	Cable	
Freq	Level	Limit	Line	Level	Factor	Loss	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		
1	2448.000	59.19	-34.61	94.00	27.82	28.14	3.23	Average

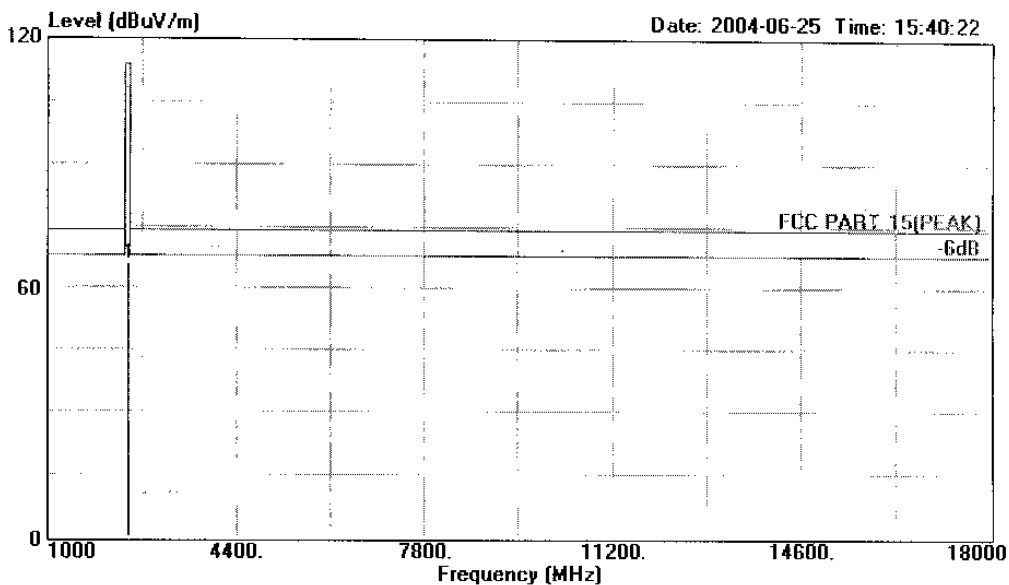


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Data#: 42 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 01

			Over	Limit	Read	Probe	Cable	
Freq	Level	Limit	Line	Level	Factor	Loss	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		
1	2448.000	65.90	-48.10	114.00	34.53	28.14	3.23	Peak

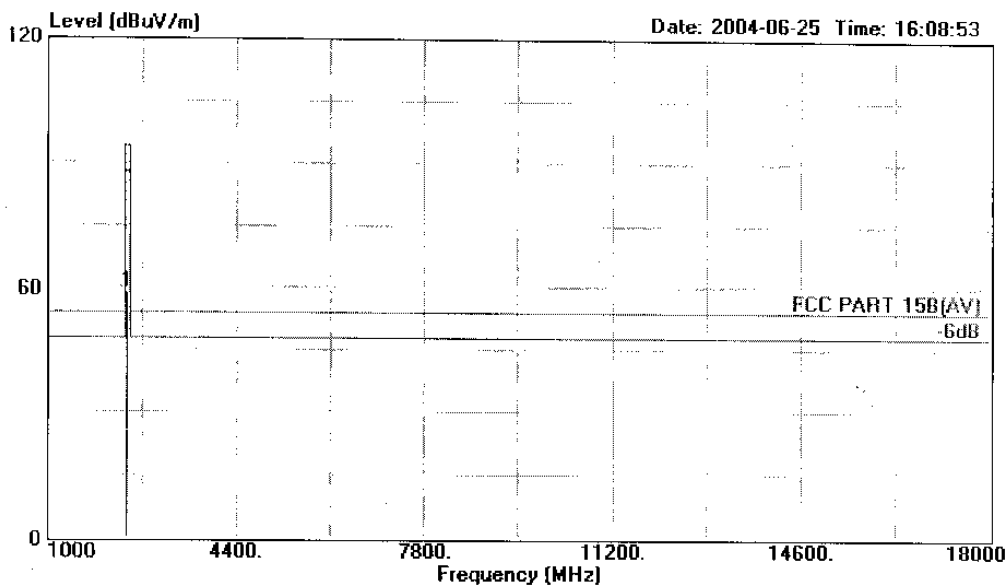


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Data#: S2 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 04

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2426.000	59.17	-34.83	94.00	27.84	28.11	3.22	Average

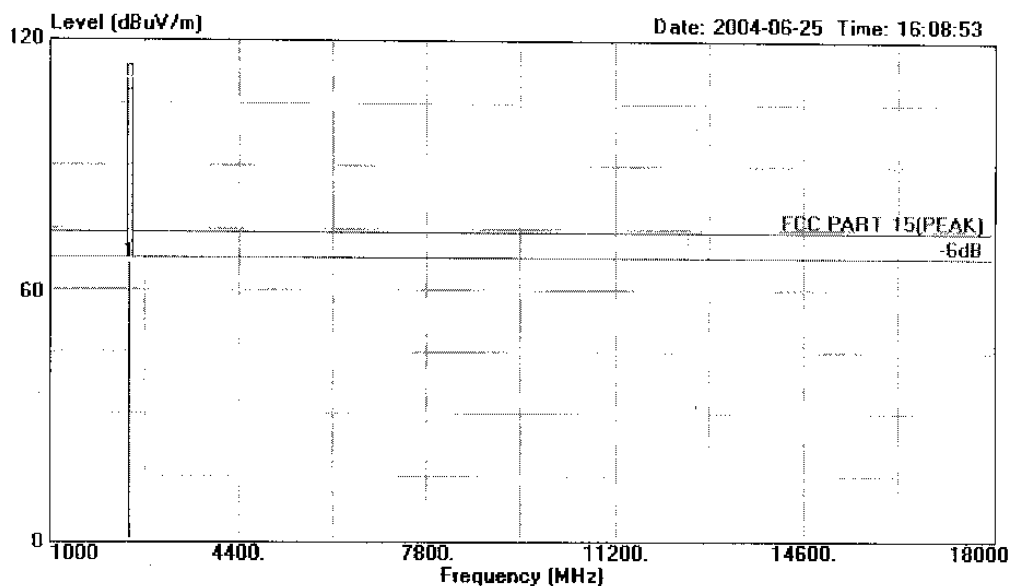


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Data#: 51 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Saco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04

			Over	Limit	Read	Probe	Cable	
Freq	Level	Limit	Line	Level	Factor	Loss	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		
1 2426.000	66.90	-47.10	114.00	35.57	28.11	3.22	Peak	

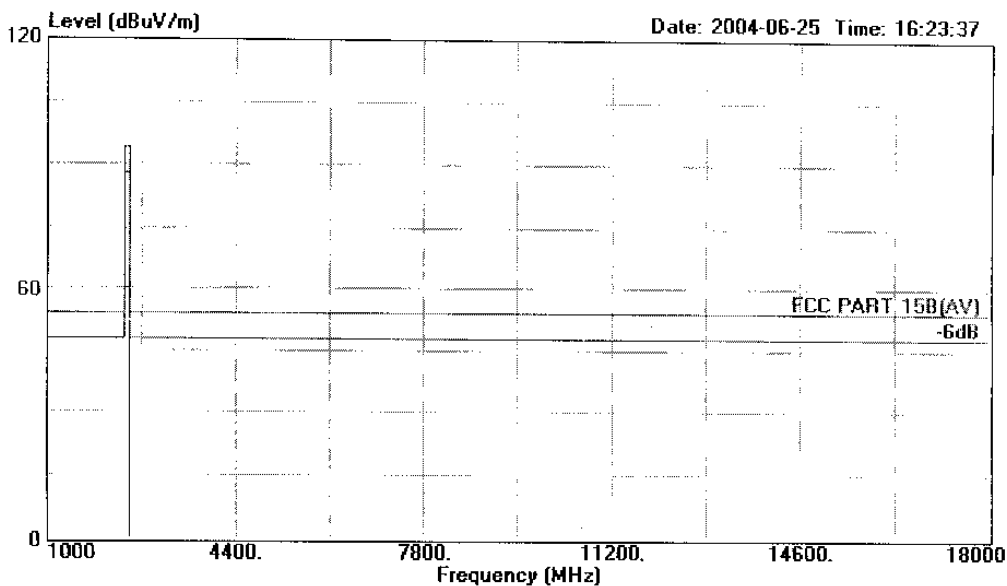


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Data#: 58 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04

			Over	Limit	Read	Probe	Cable	
Freq	Level	Limit	Line	Level	Factor	Loss	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		
1 2472.000	56.21	-37.79	94.00	24.75	28.20	3.26	Average	

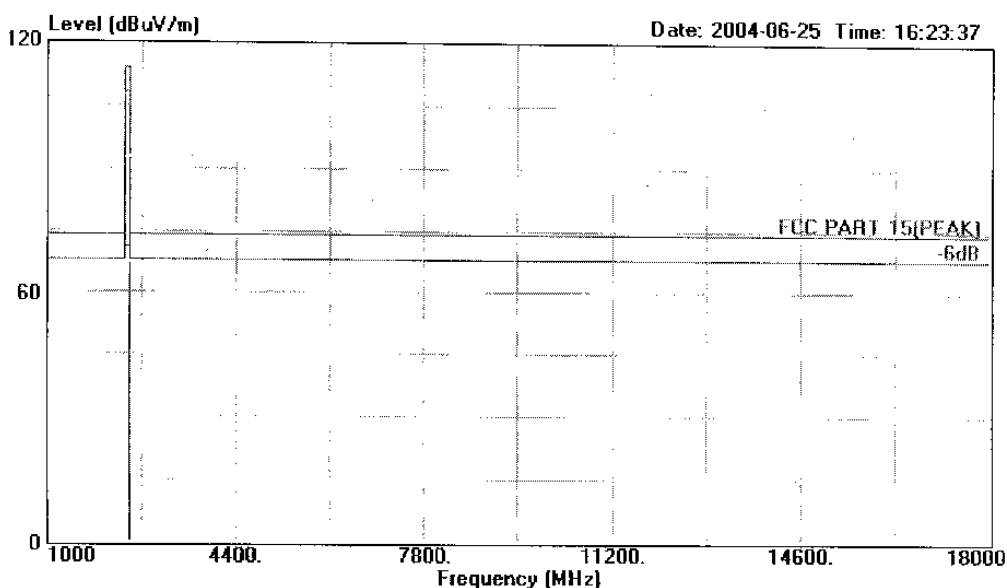


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Data#: 57 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 311SFACOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04

			Over	Limit	Read	Probe	Cable	
Freq	Level	Limit	Line	Level	Factor	Loss	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		
1	2472.000	67.21	-46.79	114.00	35.75	28.20	3.26	Peak

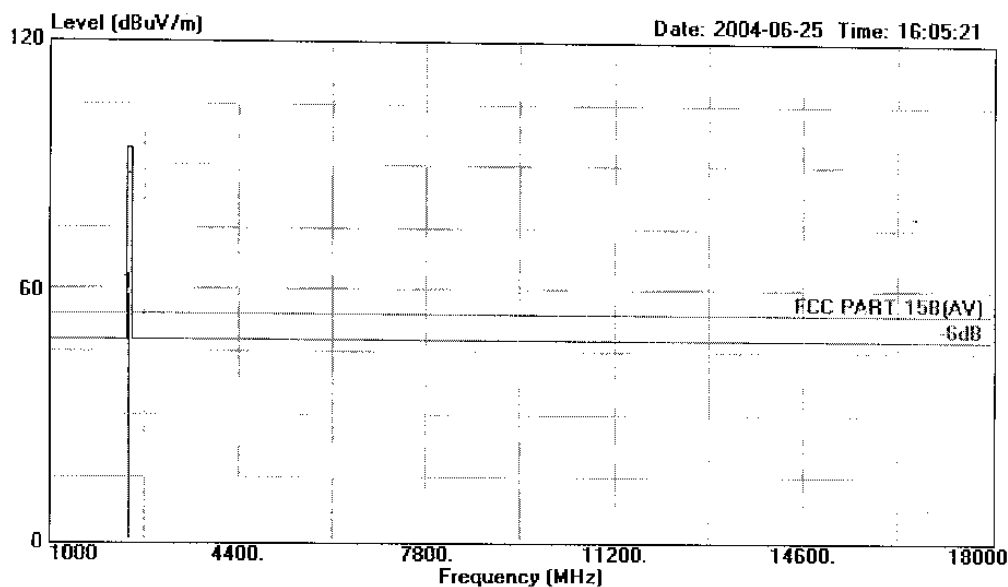


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Data#: 49 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 04

	Freq	Level	Over	Limit	Read	Probe	Cable	Remark
			Limit	Line	Level	Factor	Loss	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2426.000	58.91	-35.09	94.00	27.58	28.11	3.22	Average

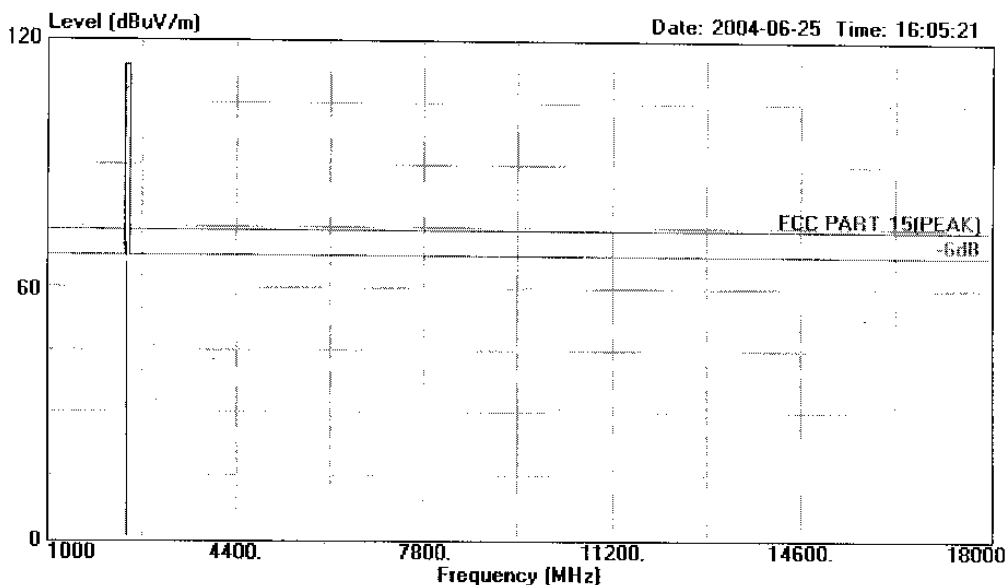


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Data#: 48 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2426.000	66.50	-47.50	114.00	35.17	26.11	3.22	Peak

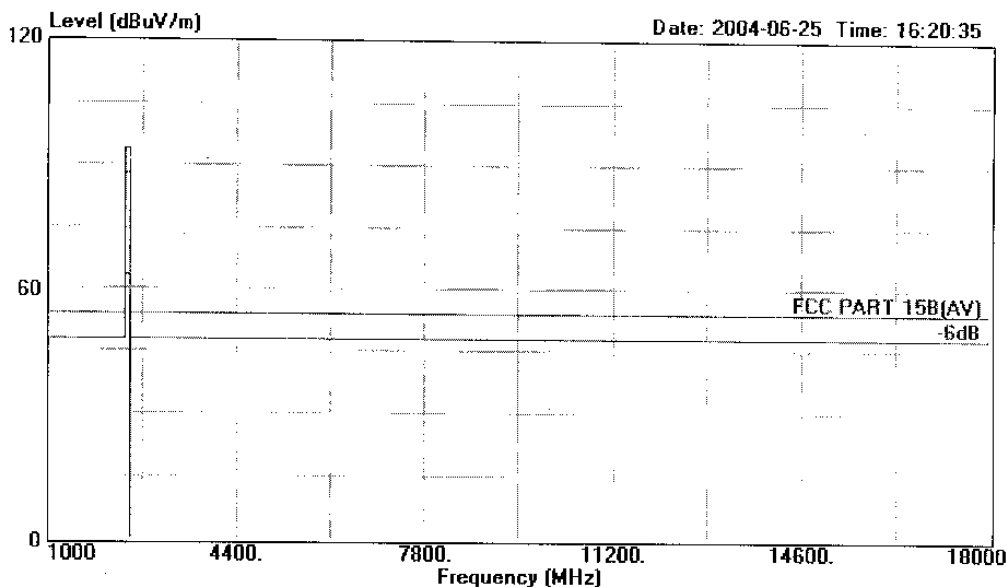


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Data#: 55 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Saco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2472.000	59.59	-34.41	94.00	28.13	28.20	3.26	Average

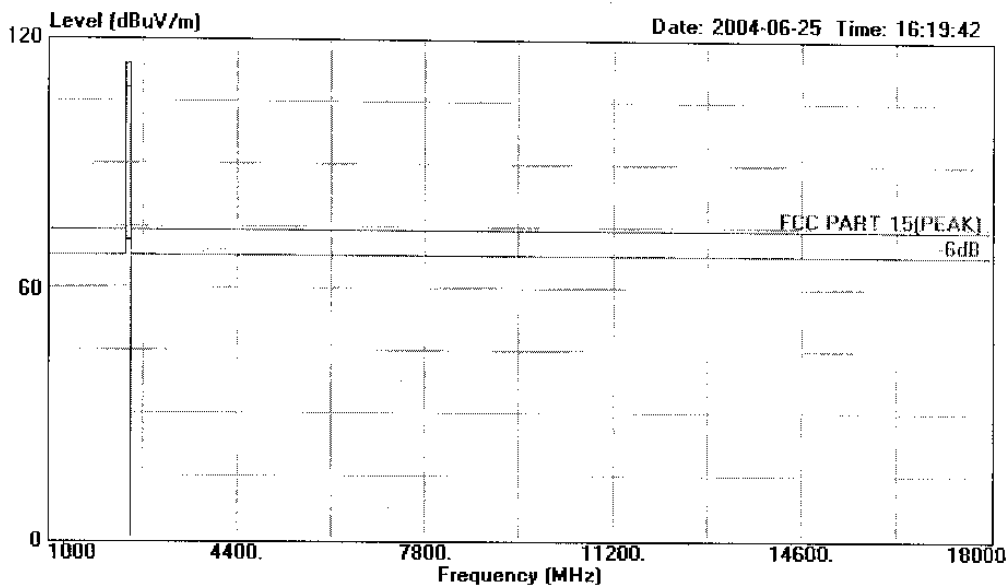


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Data#: 54 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2472.380	67.54	-46.46	114.00	36.08	28.20	3.26	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	May 24,04	1 Y
2.	Antenna	EMCO	3115	9607-4877	Dec 02, 02	1.5 Y

4.2. Test Standard

The test completeness FCC 15C (249).

4.3. Bandwidth Limit

200KHz wide centered on the operation frequency.

4.4. Test Procedure

PASS.

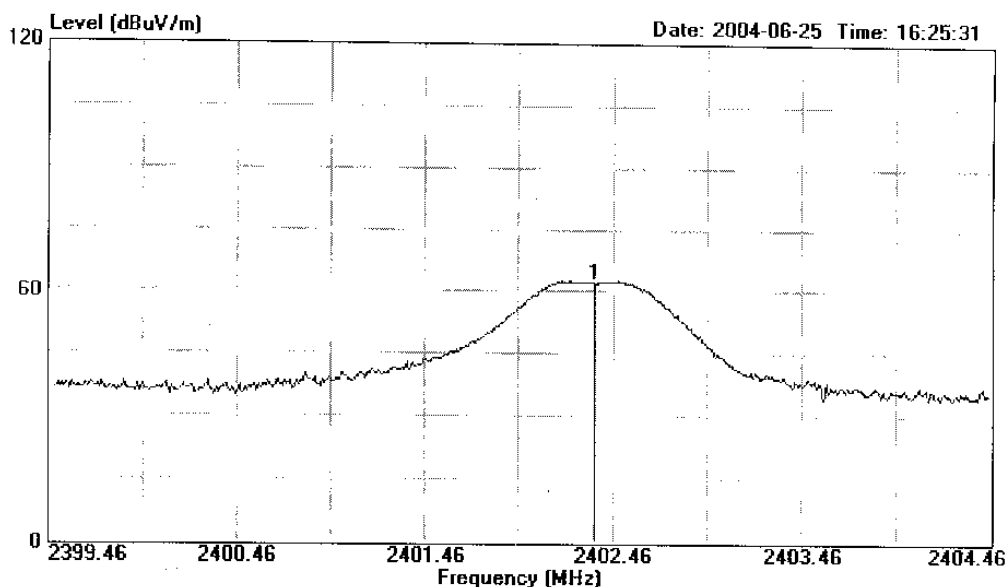


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Data#: 59 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 01

Freq	Level	Over	Limit	Read	Probe	Cable	Remark
		Limit	Line	Level	Factor	Loss	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1 2402.360	62.28	-----	-----	31.00	28.07	3.21	Peak

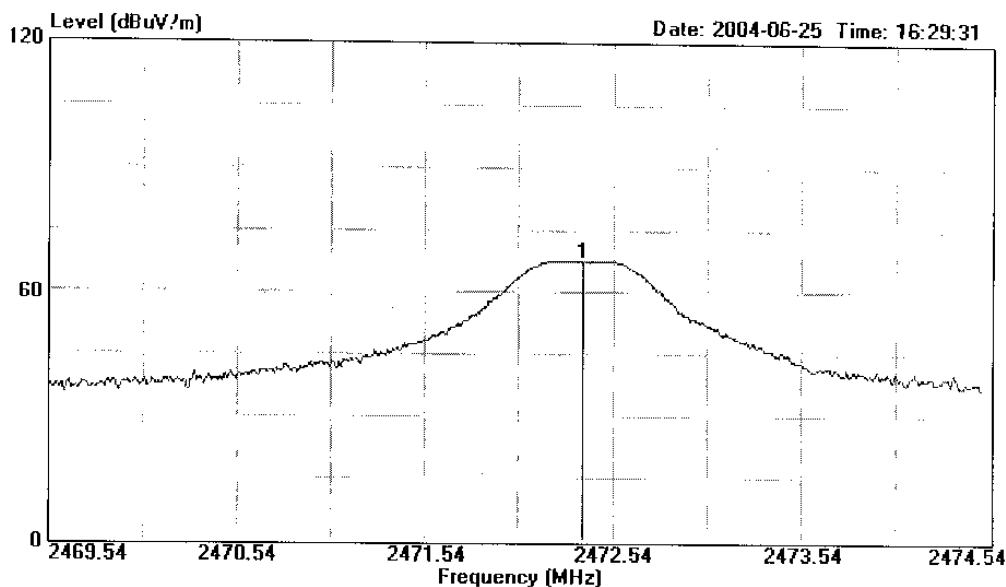


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Data#: 60 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 04

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV/m	dBuV	dB	dB	
1	2472.380	67.54	-----	-----	36.08	28.20	3.26	Peak

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]

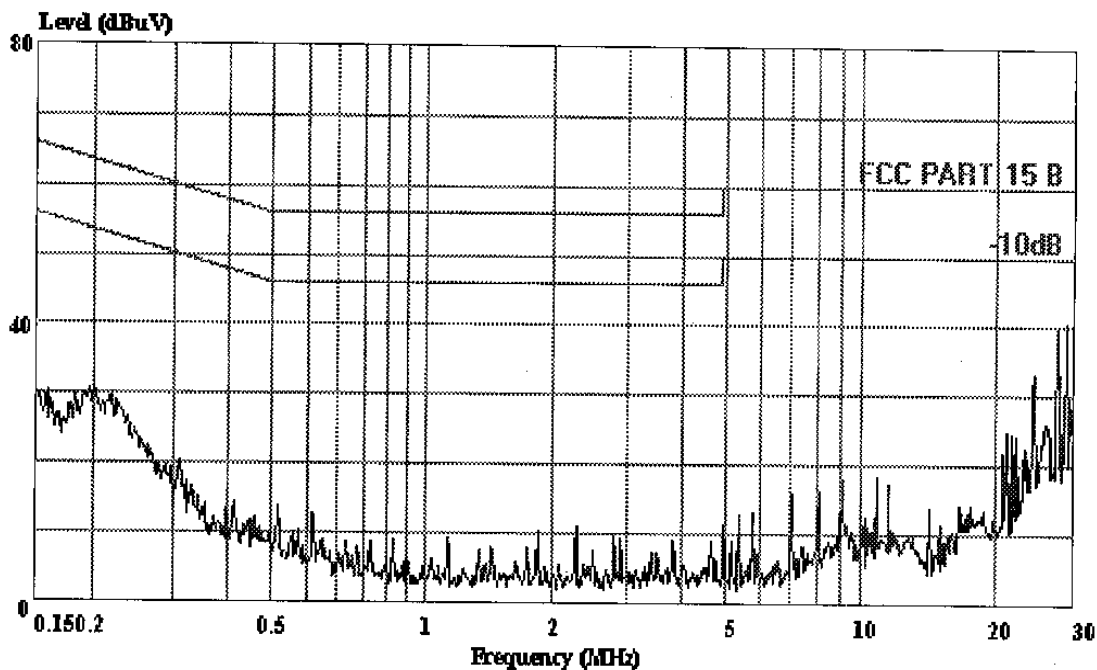
APPENDIX I



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 Tel:0755-26639496
 Fax:26632877

Data#: 7 File#: Freetron.EMI Date: 2004-06-27 Time: 10:25:19



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

Trace:

Ref Trace:

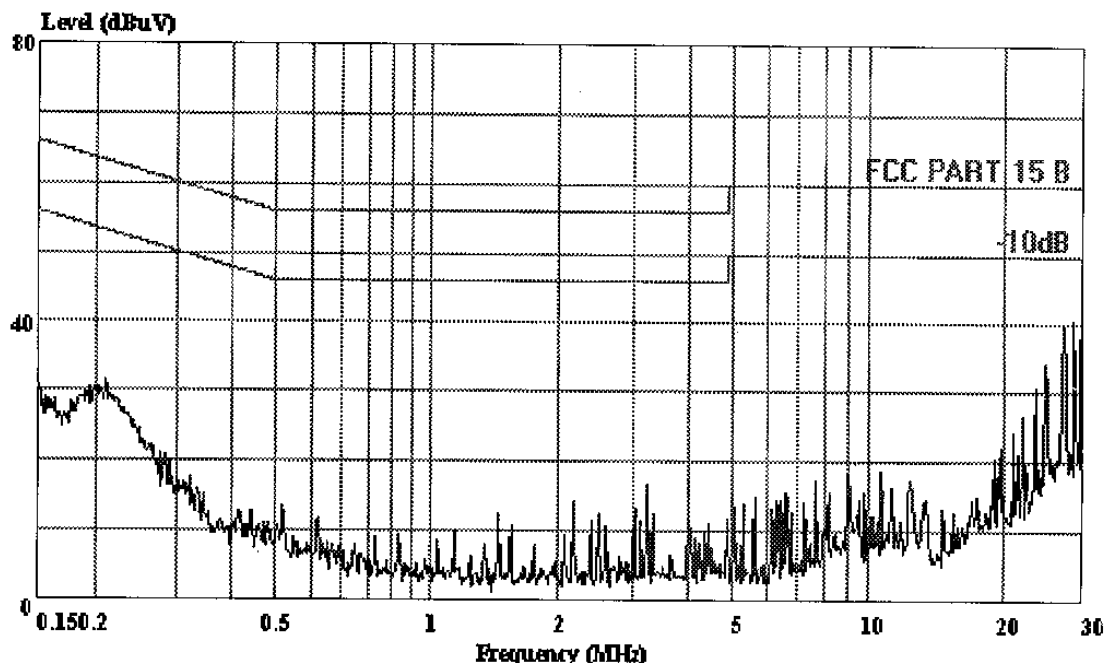
Condition: FCC PART 15 B VA KNW-407
 EUT : RF Wireless joypad for xbox
 M/N : 04034Rx
 OP Condition : Channel 01
 Test Spec : DC 4.5V With xbox AC Input 120V/60Hz
 Test Engineer: Seco
 Comment : Temp:23' Humi:54%



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Fax:26632877

Data#: 8 File#: Freetron.EMI Date: 2004-06-27 Time: 10:26:04



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Trace:

Ref Trace:

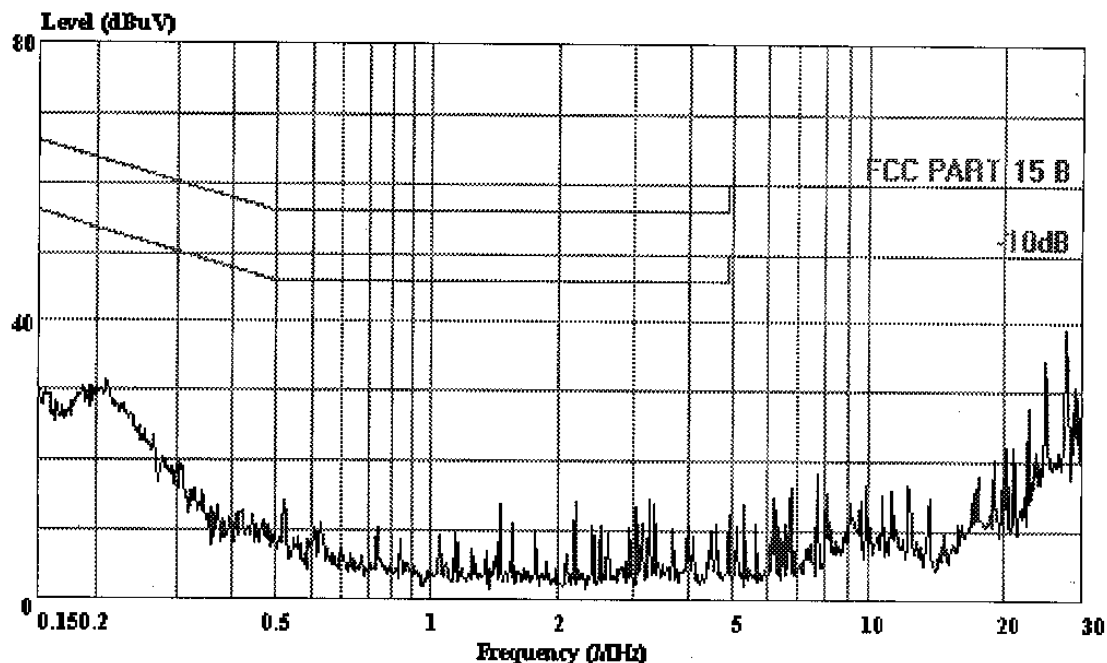
Condition: FCC PART 15 B VB KNW-407
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
OP Condition : Channel 01
Test Spec : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer: Seco
Comment : Temp:23' Humi:54%



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Data#: 11 File#: Freetron.EMI Date: 2004-06-27 Time: 10:29:23



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Trace:

Ref Trace:

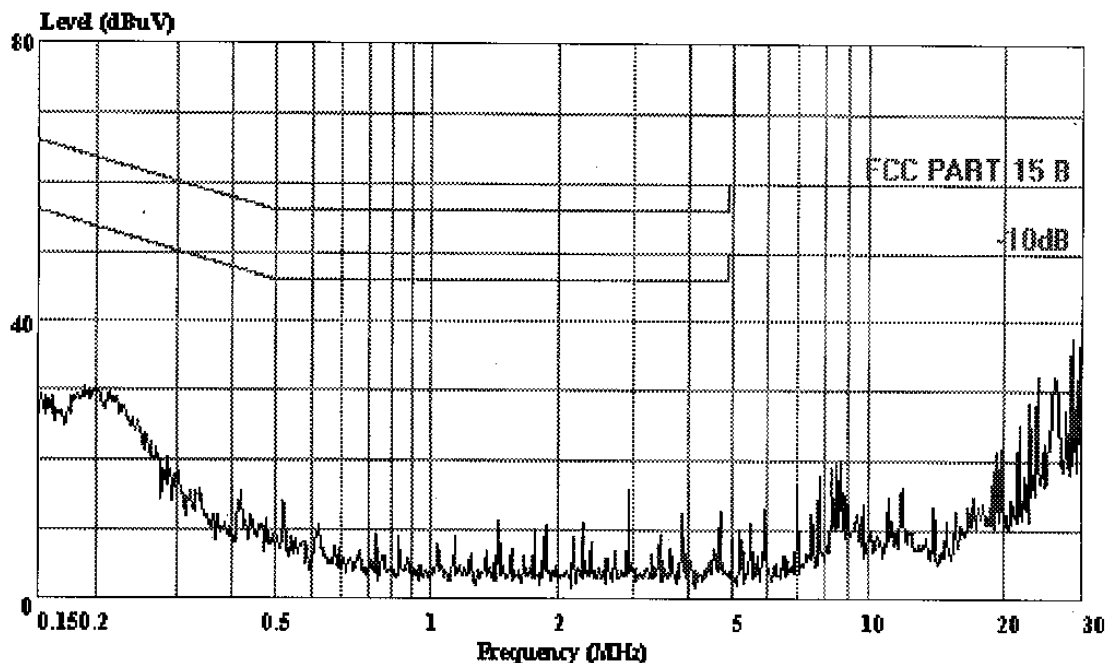
Condition: FCC PART 15 B VA KNW-407
 EUT : RF Wireless joypad for xbox
 M/N : 04034Rx
 OP Condition : Channel 04
 Test Spec : DC 4.5V With xbox AC Input 120V/60Hz
 Test Engineer: Seco
 Comment : Temp:23' Humi:54%



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Data#: 9 File#: Freetron.EMI Date: 2004-06-27 Time: 10:26:34



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Trace:

Ref Trace:

Condition: FCC PART 15 B VB KNW-407
 EUT : RF Wireless joypad for xbox
 M/N : 04034Rx
 OP Condition : Channel 04
 Test Spec : DC 4.5V With xbox AC Input 120V/60Hz
 Test Engineer: Seco
 Comment : Temp:23' Humi:54%

APPENDIX II



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park

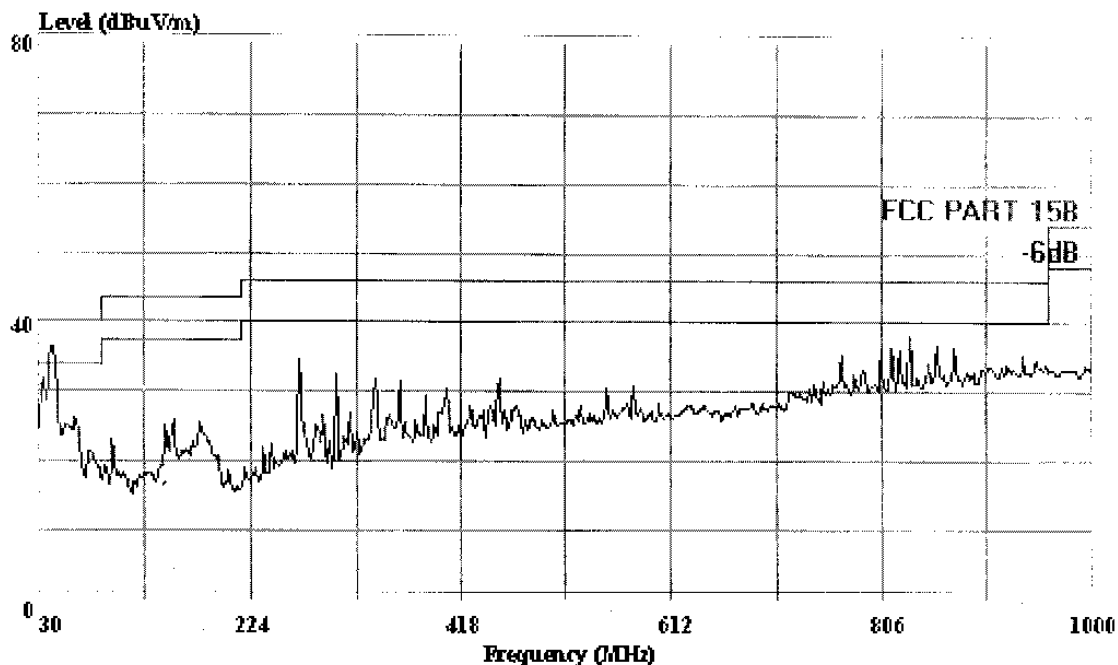
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 27

File#: Freetron.emi

Date: 2004-06-27 Time: 09:54:11



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : RF Wireless joypad for xbox

M/N : 04034Rx

Power : DC 4.5V With xbox AC Input 120V/60Hz

Engineer: Seco

Comment : Temp:24'C Humi:54%

Memo : Channel 01



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

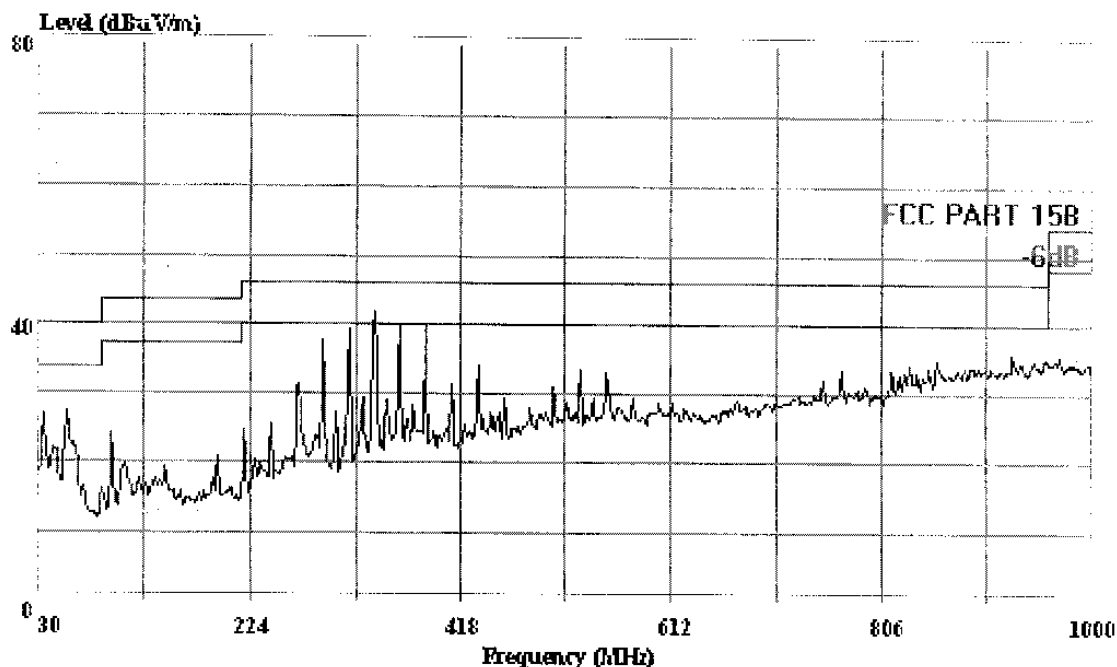
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 28 File#: Freetron.emi

Date: 2004-06-27 Time: 09:55:00



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : RF Wireless joypad for xbox

M/N : 04034Rx

Power : DC 4.5V With xbox AC Input 120V/60Hz

Engineer: Seco

Comment : Temp:24'C Humi:54%

Memo : Channel 01



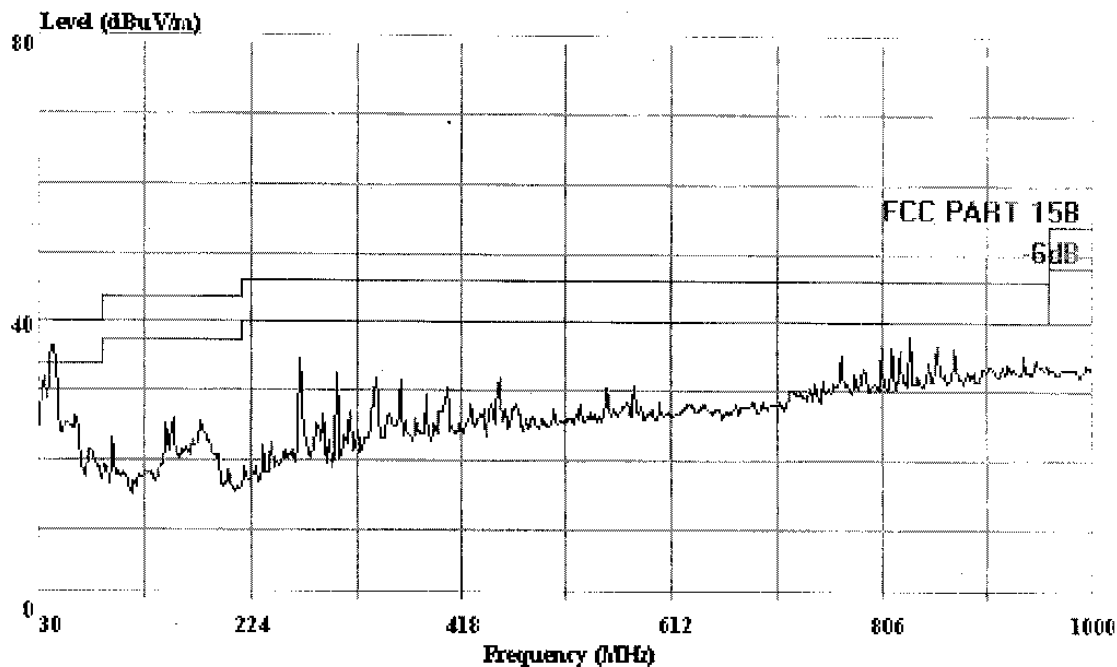
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 31 File#: Freetron.emi Date: 2004-06-27 Time: 10:25:11



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : RF Wireless joypad for xbox

M/N : 04034Rx

Power : DC 4.5V With xbox AC Input 120V/60Hz

Engineer: Seco

Comment: Temp:24'C Humi:54%

Memo : Channel 04



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Shenzhen Science & Ind. Park

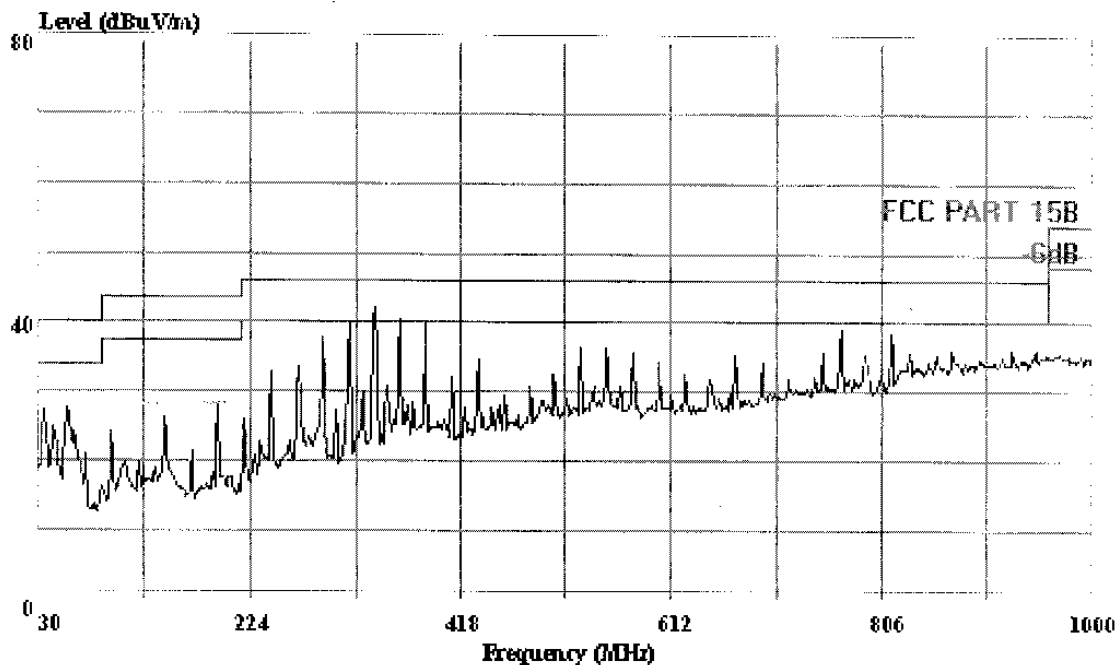
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 29

File#: Freetron.emi

Date: 2004-06-27 Time: 09:55:41



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : RF Wireless joypad for xbox

M/N : 04034Rx

Power : DC 4.5V With xbox AC Input 120V/60Hz

Engineer: Saco---

Comment : Temp:24'C Humi:54%

Memo : Channel 04

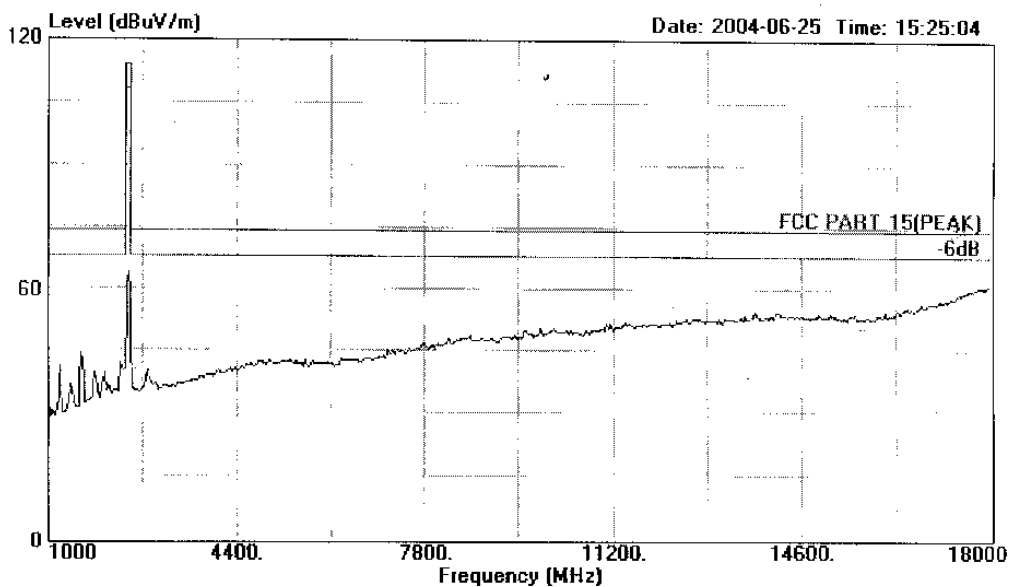


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Data#: 35 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 01

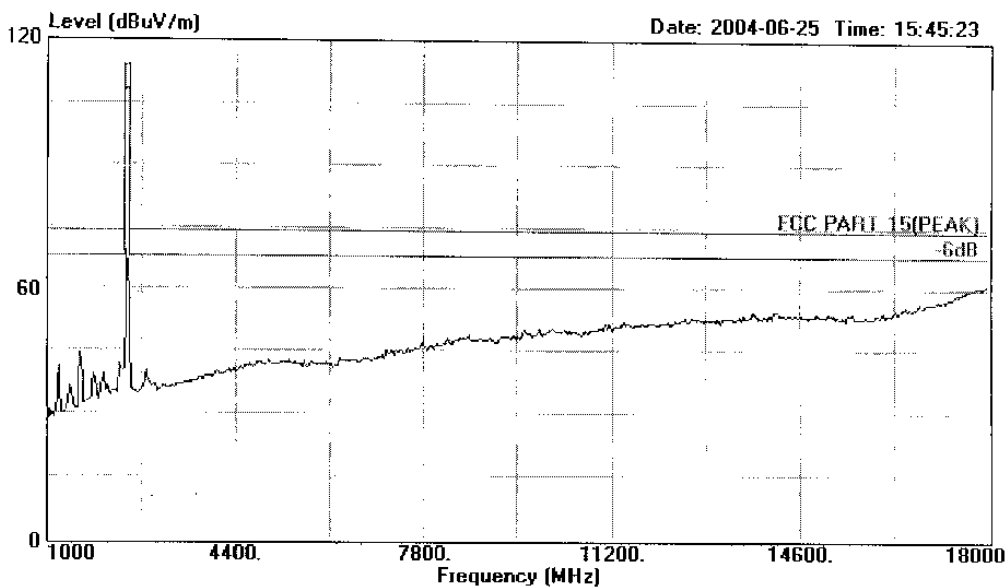


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Data#: 44 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6 Humi:54.3%
Memo : Channel 01

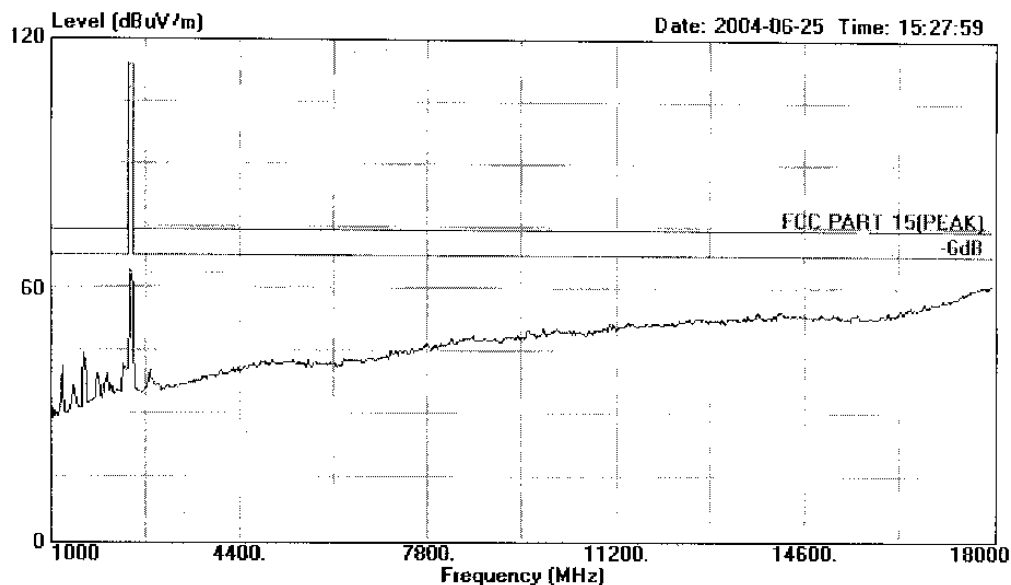


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Data#: 38 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 01

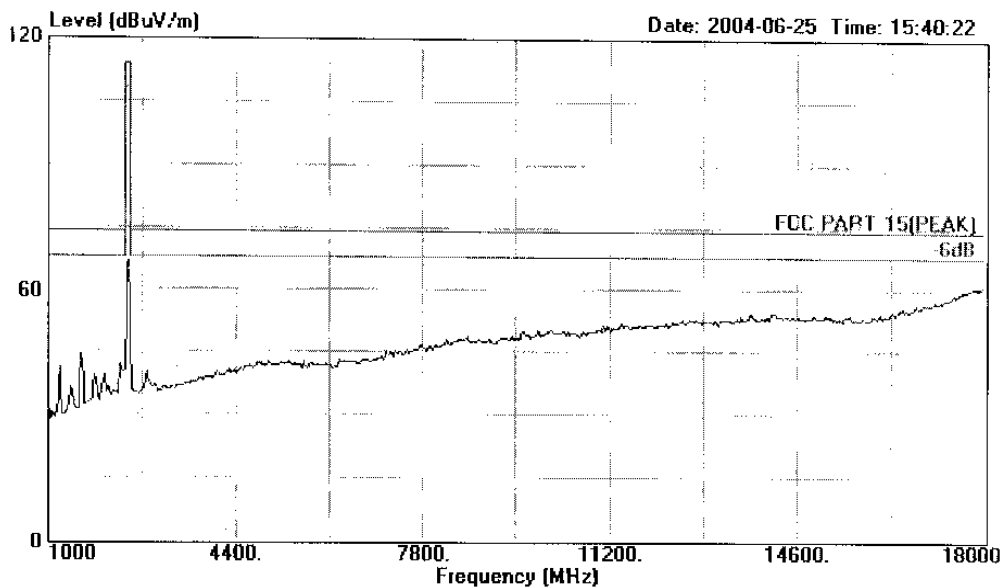


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Data#: 41 File#: C:\EMI TEST DATA\F\Freestron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 01

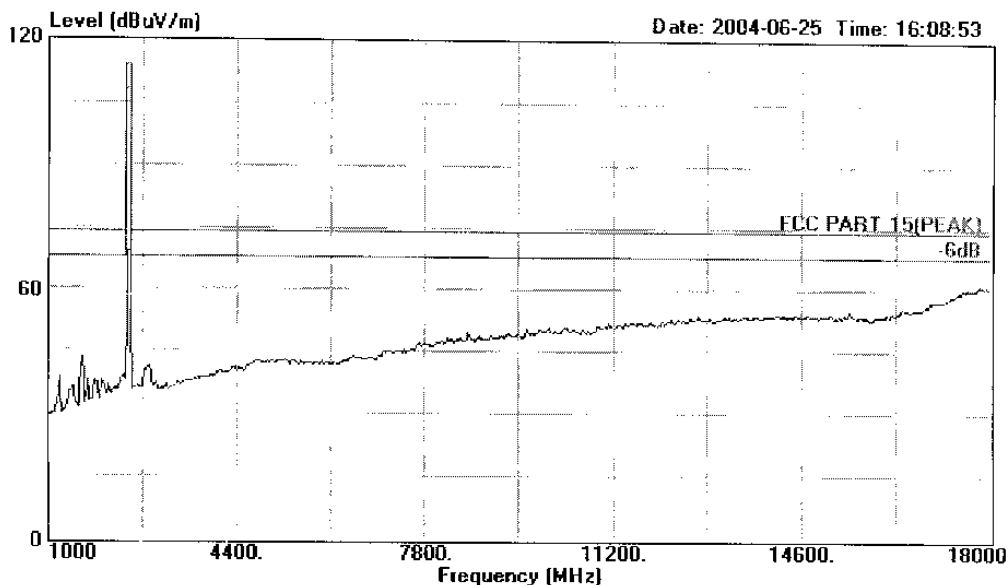


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Data#: 50 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : G4034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 04

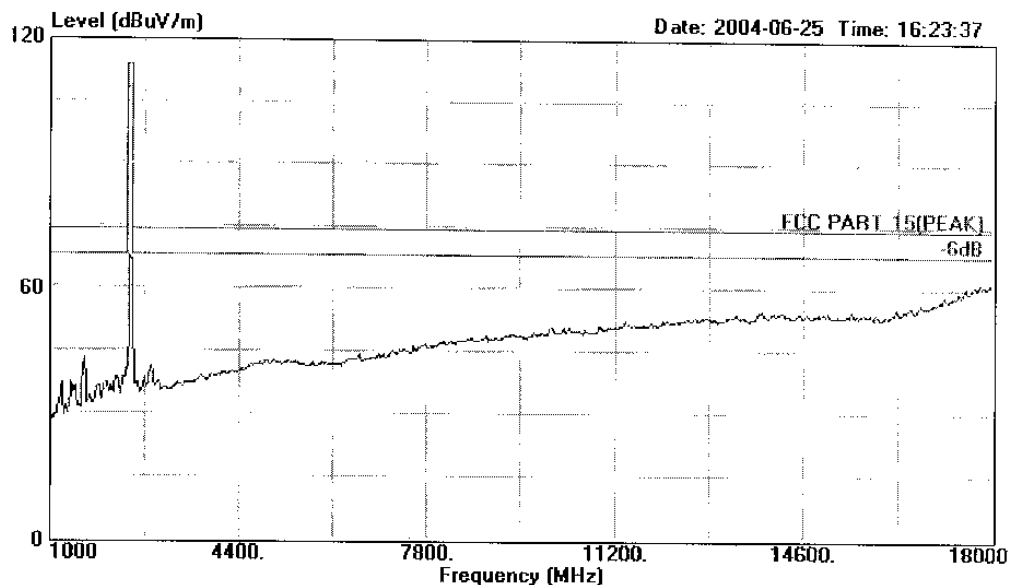


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Data#: 56 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04

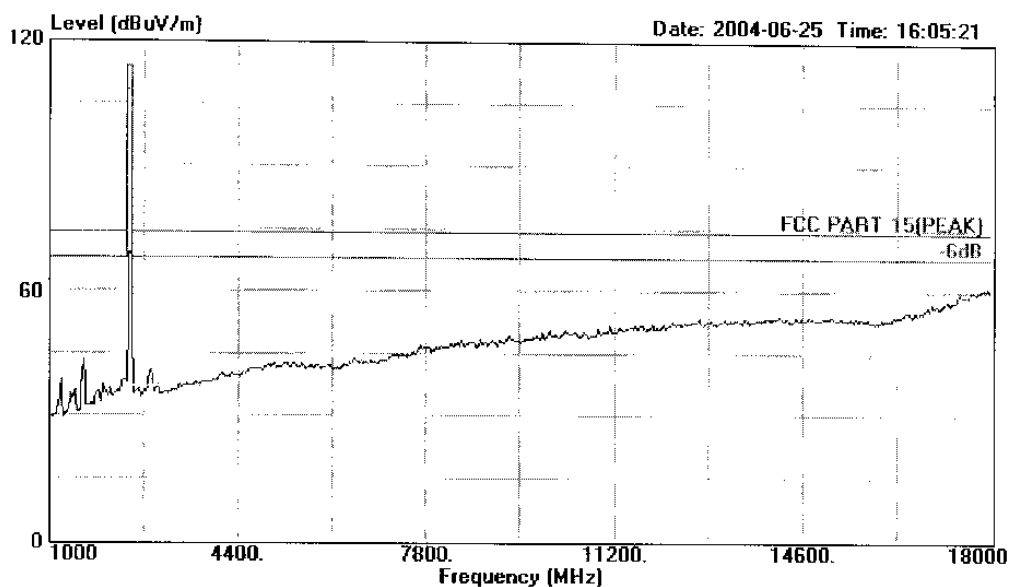


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Data#: 47 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 04

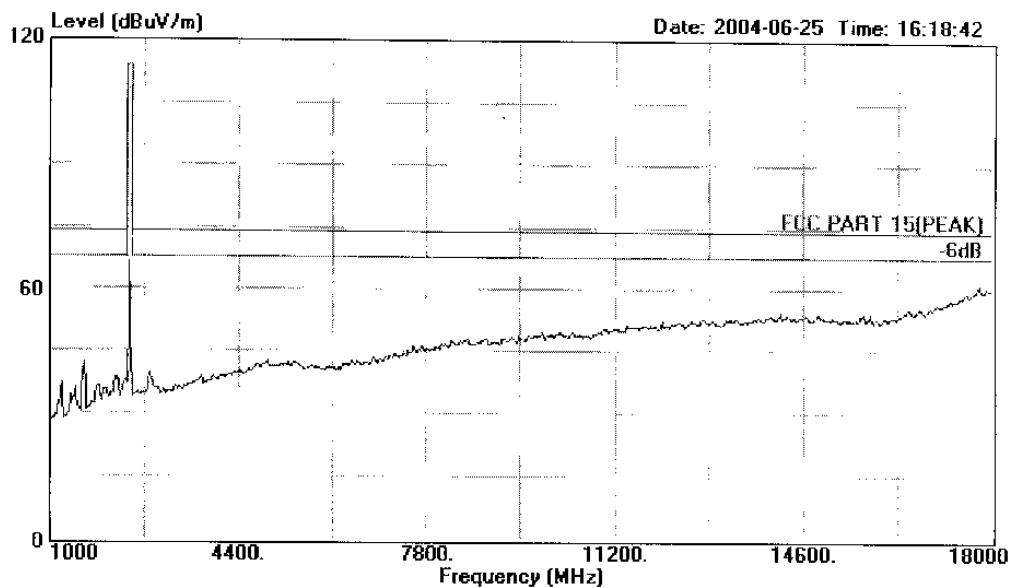


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Data#: 53 File#: C:\EMI TEST DATA\F\Fretron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04

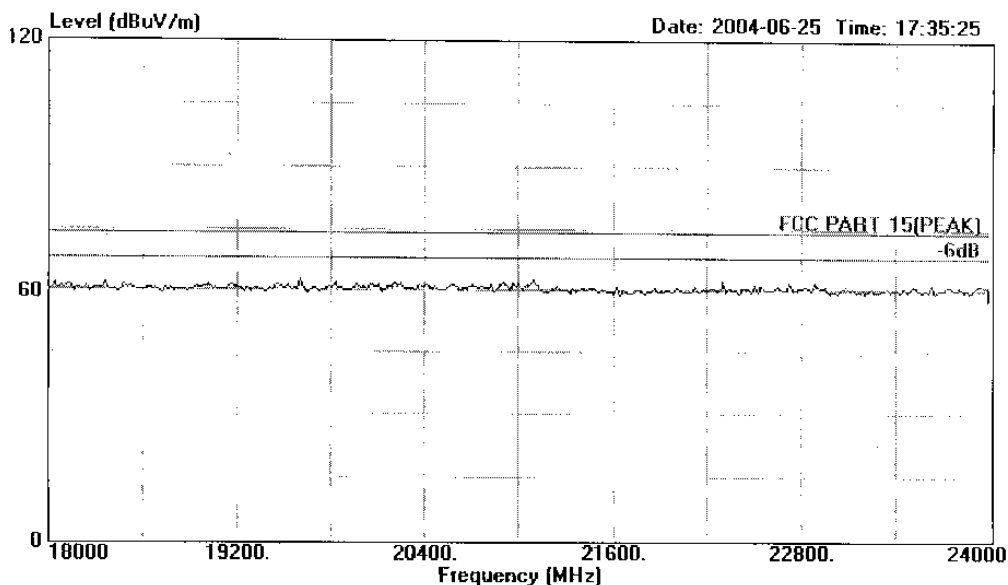


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Data#: 62 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 01

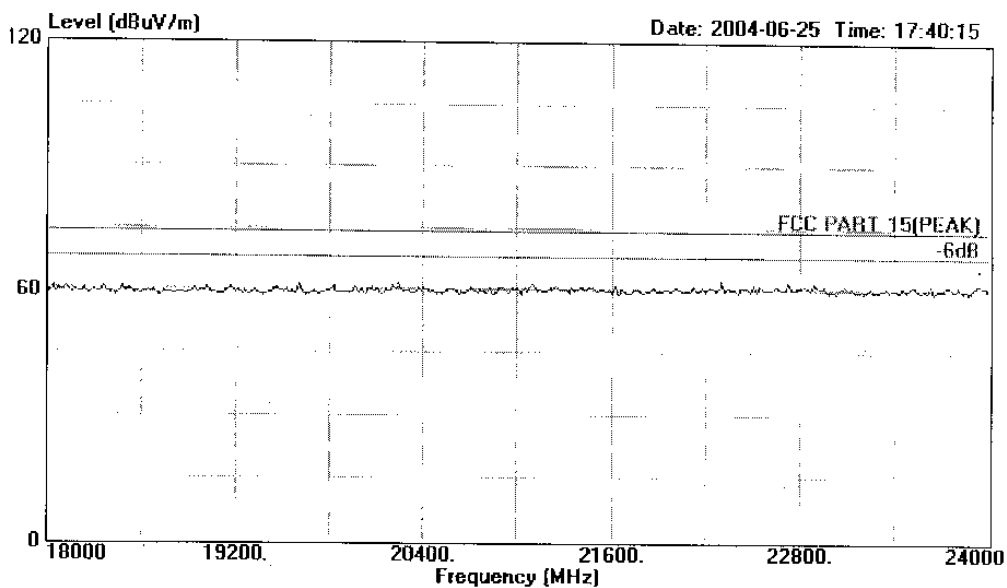


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Data#: 63 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 01

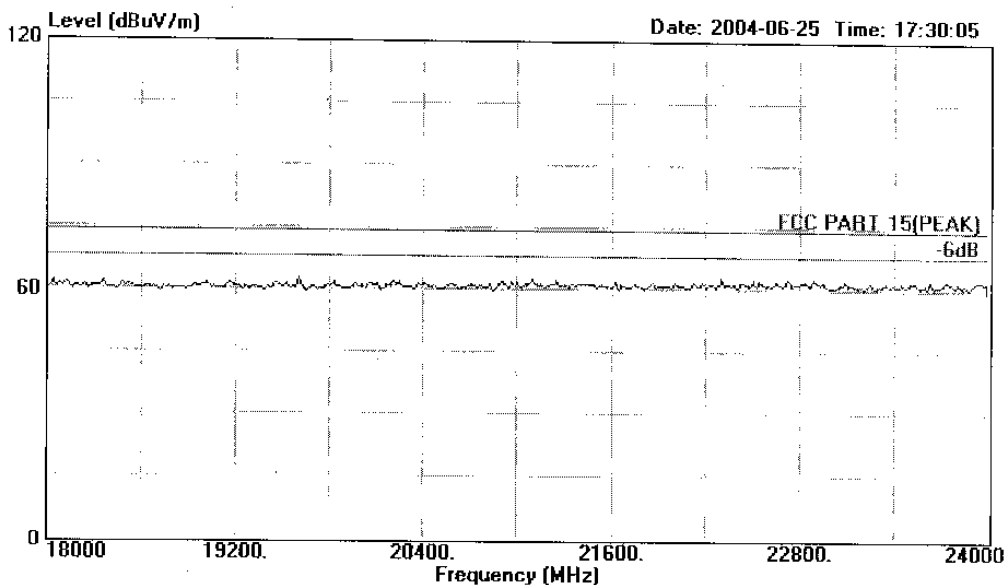


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Data#: 61 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 01

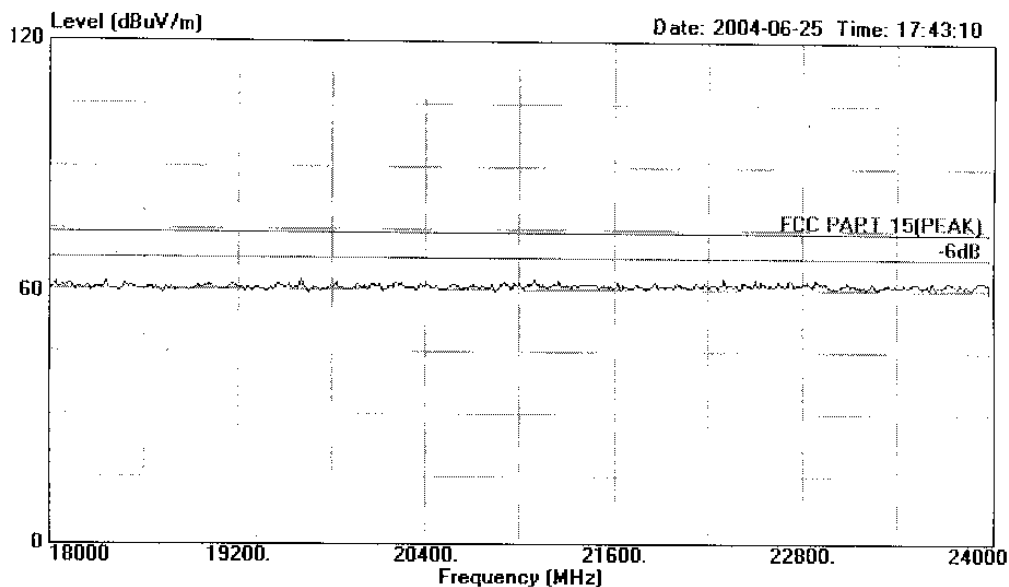


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Data#: 64 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 01

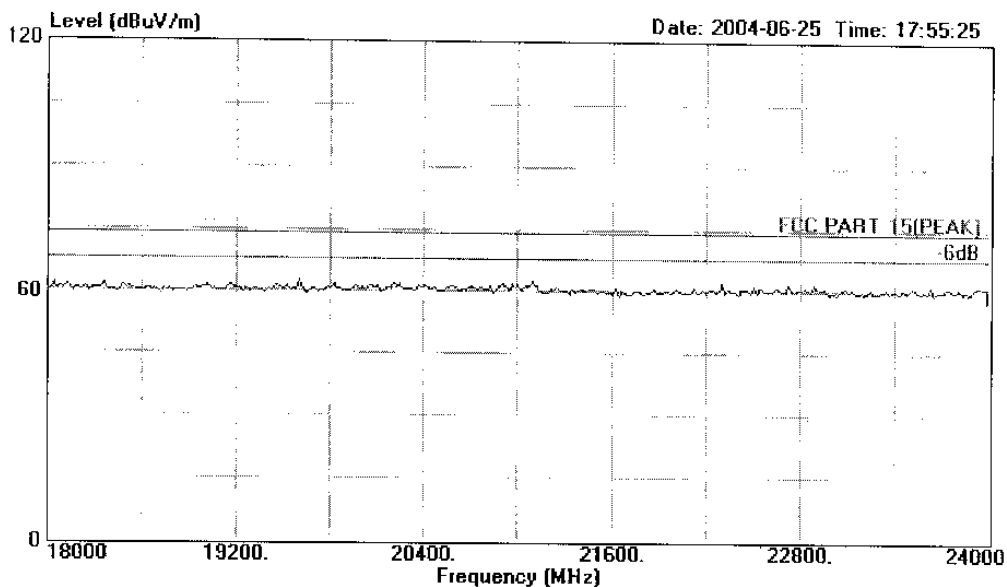


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Data#: 66 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 04

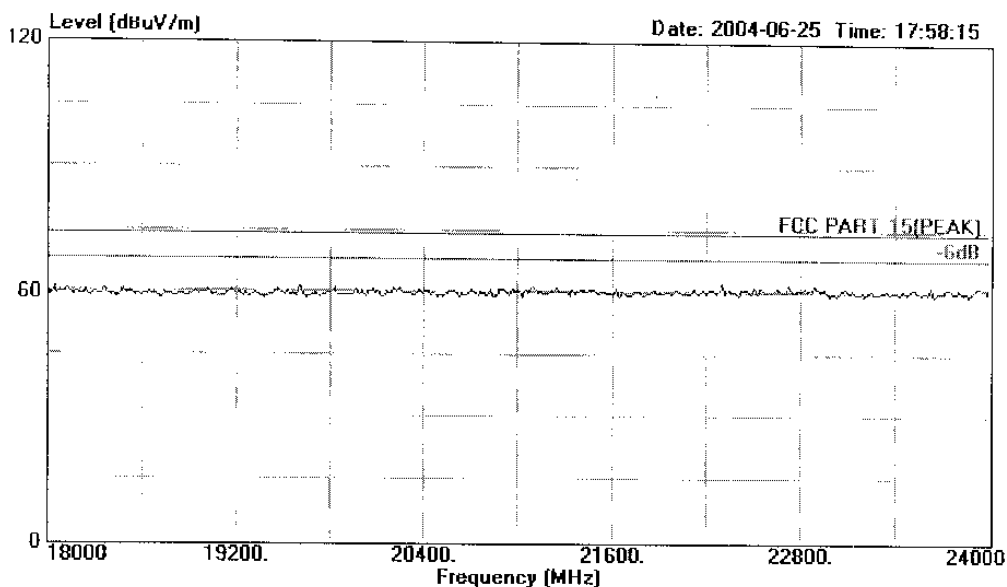


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Data#: 67 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6' Humi:54.3%
Memo : Channel 04

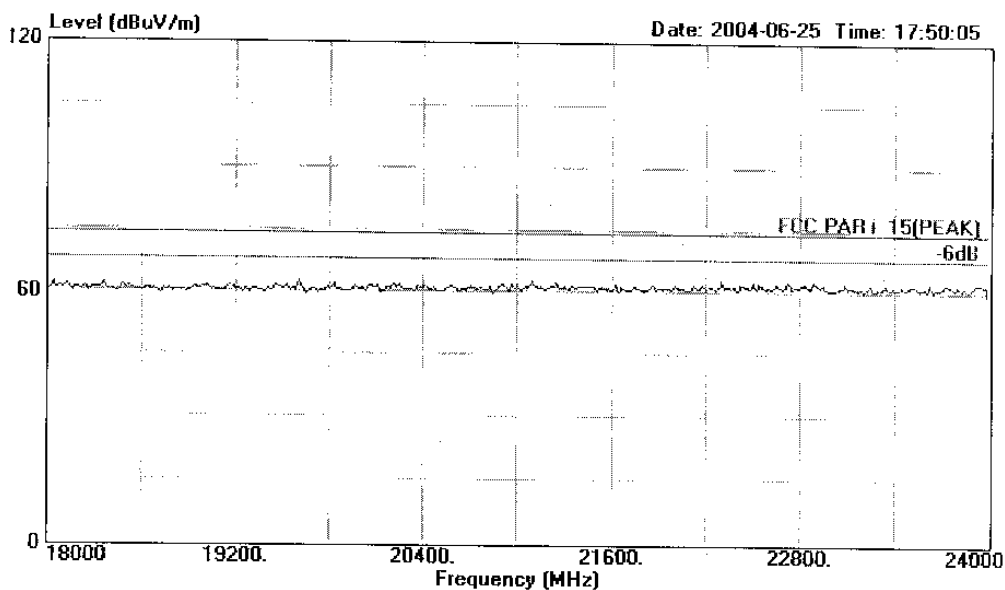


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Data#: 65 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Saco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04

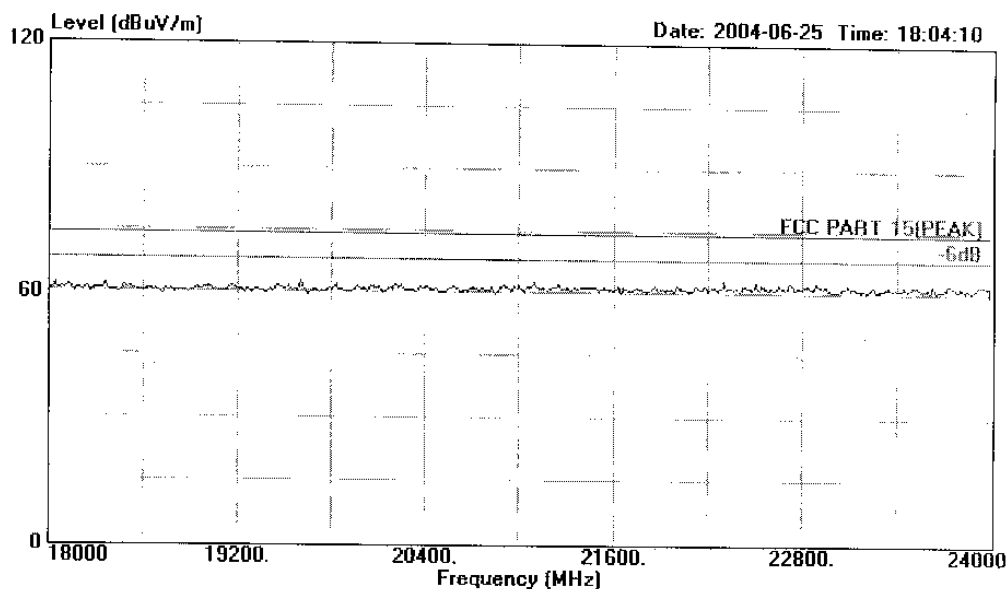


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Data#: 68 File#: C:\EMI TEST DATA\F\Freetron.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : RF Wireless joypad for xbox
M/N : 04034Rx
Power : DC 4.5V With xbox AC Input 120V/60Hz
Test Engineer : Seco
Memo : Temp:23.6° Humi:54.3%
Memo : Channel 04