

APPLICATION FOR CERTIFICATION

On Behalf of

Berway Technology Ltd.

Wireless Controller For PS2

Model Number: S619

Prepared for : Berway Technology Ltd.
Unit 1801-02, 18/F., No. 88 Kwai Cheong Road,
Kwai Chung, N.T., Hong Kong.

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Report Number : ACS-F04038
Date of Test : Feb.17~Mar.05, 2004
Date of Report : Mar.09, 2004

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APPENDIX I (25 pages)

TEST REPORT DECLARATION

Applicant : Berway Technology Ltd.
 Manufacturer : Berway Technology Ltd.
 EUT Description : Wireless Controller For PS2
 (A) MODEL NO. : S619
 (B) SERIAL NO. : F2004030901
 (C) POWER SUPPLY : DC 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 both 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 these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the 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.

This report must not be used by the applicant to claim product endorsement by NVLAP or any agency of the U.S. Government.

Date of Test : Feb.17~Mar.05, 2004

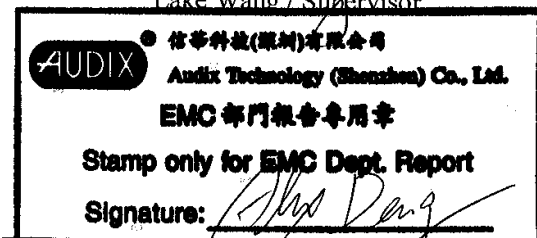
Prepared by :

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 : Wireless Controller For PS2

Model Number : S619

Applicant : Berway Technology Ltd.
Unit 1801-02, 18/F., No.88 Kwai Cheong Road,
Kwai Chung, N.T., Hong Kong

Manufacturer : Berway Technology Ltd.
Unit 1801-02, 18/F., No.88 Kwai Cheong Road,
Kwai Chung, N.T., Hong Kong

Date of Test : Feb.17~Mar.05, 2004

1.2. Tested Supporting System Details

PS2 : Manufacturer: SONY
M/N: SCPH-39004

Device : Manufacturer: Berway
M/N: S619

1.3. Test Facility

Site Description

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

EMC Lab.

Certificated by DATech, German
Feb. 02, 2004

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

1.4. Test Uncertainty

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

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

2. POWER LINE CONDUCTED EMISSION TEST

According to Paragraph (f) of FCC Part 15 section 15.247, 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

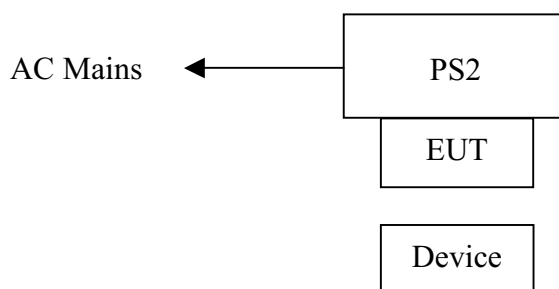
The following test equipments are used during the radiated emission test:

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	EMI Spectrum	HP	85422E	3625A00181	May.31, 03	1 Year
1.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.31, 03	1 Year
2.	Amplifier	HP	8447D	2944A07794	Sep.18, 03	1/2 Year
3.	Bilog Antenna	Schaffner	CBL6111C	2598	Jan. 13, 04	1 Year
4.	PC	N/A	586ATX3	N/A	N/A	N/A
5.	Printer	HP	Laserjet6P	SGCF019673	N/A	N/A
6.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Feb.01, 04	1/2 Year
7.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Feb.01, 04	1/2 Year
8.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Feb.01, 04	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Feb.01, 04	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Nov.28, 03	1/2 Year
11.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
12.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
13.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year

3.2. Block Diagram of Test Setup

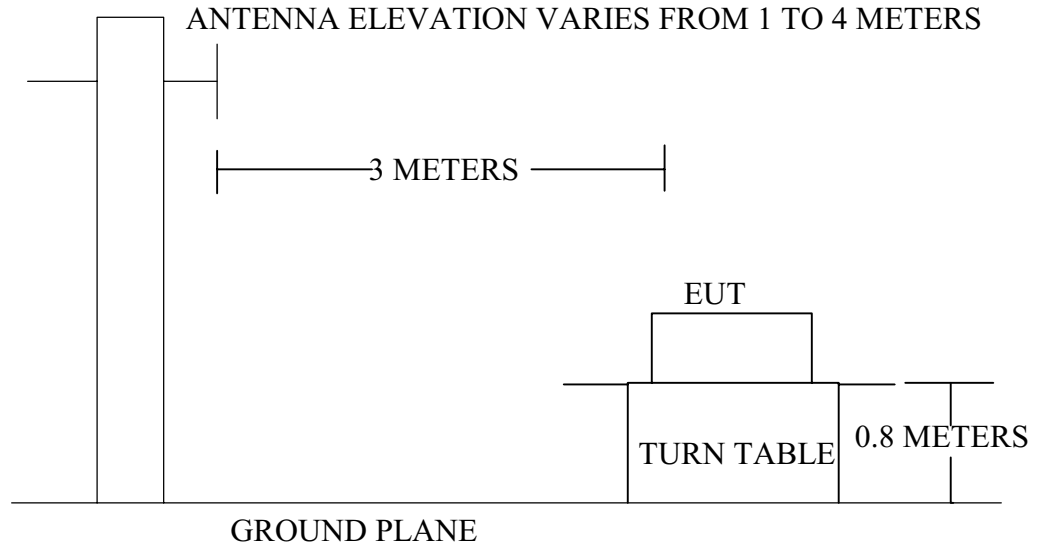
3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless Controller For PS2)

3.2.2.In Anechoic Chamber

ANTENNA TOWER



3.3.Radiated Emission Limit

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	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$
 - (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.Wireless Controller For PS2 (EUT)

Model Number : S619
 Serial Number : F2004030901
 Manufacturer : Berway Technology Ltd.

3.4.2.Support Equipment : As Tested Supporting System Detail, in Section 1.2.

3.5.Operating Condition of EUT

1. Setup the EUT as shown in Section 3.2..
2. Let the EUT work in test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx/ Host CH0 Rx/Host CH39 Rx/Host CH79 Rx) and test it.

3.6.Test Procedure

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. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. 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 are set on test.

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

The frequency range from 30MHz to 24.44GHz is checked.

The test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx/ Host CH0 Rx/ Host CH39 Rx/Host CH79 Rx) is tested in Anechoic Chamber, and all the scanning waveforms are attached in Appendix I.

3.7.Radiated Emission Test Result

PASS.

The frequency range from 30MHz to 1000MHz is investigated.

Please see the following pages.

Date of Test :	Mar. 05, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH0 Tx
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
259.890	13.16	3.47	19.62	36.24	-9.76	46.00
295.780	13.15	3.73	20.39	37.27	-8.73	46.00
373.380	15.95	4.35	16.95	37.25	-8.75	46.00
771.080	21.52	6.89	10.47	38.88	-7.12	46.00
843.830	22.21	7.31	7.65	37.18	-8.82	46.00
882.630	22.13	7.28	6.77	36.18	-9.82	46.00

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

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

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Wabe Wang

Date of Test :	Mar. 05, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH0 Tx
Test Engineer:	Richzhy		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Vertical	Vertical	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
65.890	9.63	1.59	14.45	25.68	-14.32	40.00
119.240	11.18	2.23	12.44	25.85	-17.65	43.50
407.330	16.24	4.63	10.90	31.78	-14.22	46.00
552.830	20.41	6.05	11.29	37.75	-8.25	46.00
589.690	19.26	6.08	12.98	38.31	-7.69	46.00
773.990	21.61	6.78	7.58	35.97	-10.03	46.00

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

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

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Wabe Wang

Date of Test :	Feb. 20, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH39 Tx
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
131.850	12.13	2.33	11.66	26.12	-17.38	43.50
279.290	12.88	3.62	22.62	39.12	-6.88	46.00
305.480	13.58	3.85	21.31	38.74	-7.26	46.00
439.340	16.87	4.91	17.69	39.47	-6.53	46.00
589.690	18.94	6.08	12.74	37.76	-8.24	46.00
777.870	21.62	7.20	9.93	38.75	-7.25	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 439.340MHz with corrected signal level of 39.47dBμV/m(Limit is 46.00 dBμV/m) when the antenna was at horizontal polarization and at 1.2m 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 : Cabe Wang

Date of Test :	Feb. 20, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH39 Tx
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
113.420	11.53	2.13	12.54	26.20	-17.30	43.50
305.480	13.49	3.85	13.20	30.54	-15.46	46.00
424.790	16.79	4.79	13.12	34.70	-11.30	46.00
588.720	19.13	6.03	12.57	37.73	-8.27	46.00
777.870	21.59	7.20	7.97	36.76	-9.24	46.00
882.630	23.45	7.28	6.40	37.13	-8.87	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 588.720MHz with corrected signal level of 37.73dBμV/m(Limit is 46.00 dBμV/m) when the antenna was at vertical polarization and at 1.2m high and the turn table was at 180 ° .
 4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Wabe Wang

Date of Test :	Mar. 05, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH79 Tx
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
259.890	13.16	3.47	19.31	35.93	-10.07	46.00
284.140	12.87	3.62	20.30	36.79	-9.21	46.00
307.420	13.60	3.85	19.49	36.93	-9.07	46.00
371.440	15.80	4.37	17.70	37.88	-8.12	46.00
443.220	16.80	4.86	13.99	35.65	-10.35	46.00
775.930	21.59	7.11	6.54	35.24	-10.76	46.00

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

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

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Gebe Wang

Date of Test :	Mar. 05, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH79 Tx
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
63.950	8.40	1.57	15.16	25.13	-14.87	40.00
305.480	13.49	3.85	11.42	28.75	-17.25	46.00
552.830	20.41	6.05	11.45	37.91	-8.10	46.00
588.720	19.13	6.03	11.77	36.93	-9.07	46.00
773.990	21.61	6.78	8.14	36.53	-9.47	46.00
882.630	23.45	7.28	5.59	36.32	-9.68	46.00

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

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

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Wabe Wang

Date of Test :	Feb. 20, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH0 Rx
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
259.890	13.16	3.47	22.08	38.70	-7.30	46.00
279.290	12.88	3.62	22.21	38.71	-7.29	46.00
305.480	13.58	3.85	21.13	38.56	-7.44	46.00
373.380	15.95	4.35	18.42	38.72	-7.28	46.00
428.670	17.06	4.73	17.36	39.16	-6.84	46.00
443.220	16.80	4.86	17.82	39.48	-6.52	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 443.220MHz with corrected signal level of 39.48dBμV/m(Limit is 46.00 dBμV/m) when the antenna was at horizontal polarization and at 1.1m high and the turn table was at 180 ° .

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

Reviewer :

Wabe Wang

Date of Test :	Feb. 20, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH0 Rx
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
109.540	11.94	2.09	15.82	29.85	-13.65	43.50
305.480	13.49	3.85	15.02	32.35	-13.65	46.00
553.800	20.40	6.08	7.88	34.36	-11.64	46.00
588.720	19.13	6.03	13.59	38.75	-7.25	46.00
773.990	21.61	6.78	8.76	37.15	-8.85	46.00
883.600	23.45	7.28	5.35	36.07	-9.93	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 588.720MHz with corrected signal level of 38.75dBμV/m(Limit is 46.00 dBμV/m) when the antenna was at vertical polarization and at 1.1m 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 : Gebe Wang

Date of Test :	Mar. 05, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH39 Rx
Test Engineer:	Richzhy		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Horizontal	Horizontal	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
259.890	13.16	3.47	21.08	37.70	-8.30	46.00
279.290	12.88	3.62	21.21	37.71	-8.29	46.00
373.380	15.95	4.35	17.42	37.72	-8.28	46.00
432.550	16.94	4.89	15.97	37.80	-8.20	46.00
589.690	18.94	6.08	12.98	38.00	-8.00	46.00
777.870	21.62	7.20	8.67	37.49	-8.51	46.00

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

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

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Wabe Wang

Date of Test :	Mar. 05, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH39 Rx
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
65.890	9.63	1.59	14.31	25.54	-14.46	40.00
109.540	11.94	2.09	14.82	28.85	-14.65	43.50
305.480	13.49	3.85	14.02	31.35	-14.65	46.00
552.830	20.41	6.05	8.99	35.45	-10.56	46.00
589.690	19.26	6.08	13.33	38.66	-7.34	46.00
773.990	21.61	6.78	7.76	36.15	-9.85	46.00

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

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

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer :

Wabe Wang

Date of Test :	Mar. 05, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH79 Rx
Test Engineer:	Richzhy		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Horizontal	Horizontal	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
259.890	13.16	3.47	21.08	37.70	-8.30	46.00
279.290	12.88	3.62	21.21	37.71	-8.29	46.00
305.480	13.58	3.85	20.13	37.56	-8.44	46.00
430.610	17.05	4.73	17.54	39.32	-6.68	46.00
589.690	18.94	6.08	10.98	36.00	-10.00	46.00
777.870	21.62	7.20	8.67	37.49	-8.51	46.00

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

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

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Wabe Wang

Date of Test :	Mar. 05, 2004	Temperature :	24°C
EUT :	Wireless Controller For PS2	Humidity :	56%
Model No. :	S619	Test Mode :	Host CH79 Rx
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
109.540	11.94	2.09	14.82	28.85	-14.65	43.50
305.480	13.49	3.85	14.02	31.35	-14.65	46.00
424.790	16.79	4.79	9.40	30.98	-15.02	46.00
552.830	20.41	6.05	8.99	35.45	-10.56	46.00
588.720	19.13	6.03	12.59	37.75	-8.25	46.00
773.990	21.61	6.78	7.76	36.15	-9.85	46.00

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

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

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Wabe Wang



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

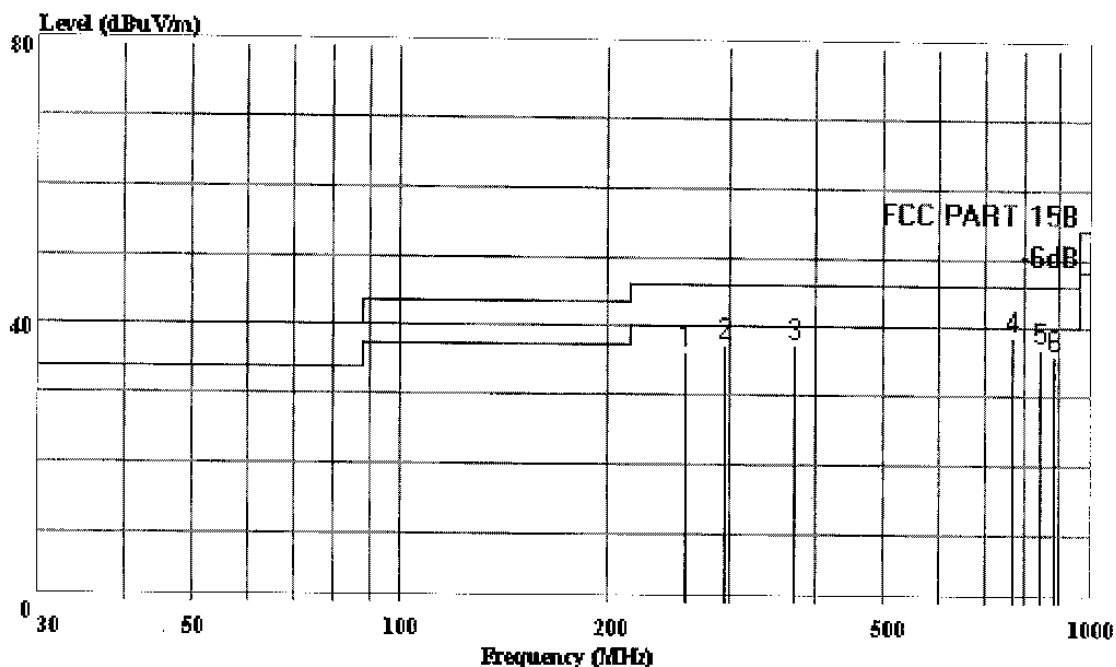
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 133 File#: Berway.EMI

Date: 2004-03-05 Time: 15:19:02



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : Wireless Controller for PS2

M/N : S619

Power : DC 8V(via PS2)

Test Engineer: Richzhv

Test Comment: Temp:24'C Humi:56%

Memo : Host CH0 Tx

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor
				dB	dBuV	dB	dB
1	259.890	36.24	46.00	-9.76	19.62	3.47	13.16
2	295.780	37.27	46.00	-8.73	20.39	3.73	13.15
3	373.380	37.25	46.00	-8.75	16.95	4.35	15.95
4	771.080	38.88	46.00	-7.12	10.47	6.89	21.52
5	843.830	37.18	46.00	-8.82	7.65	7.31	22.21
6	882.630	36.18	46.00	-9.82	6.77	7.28	22.13



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

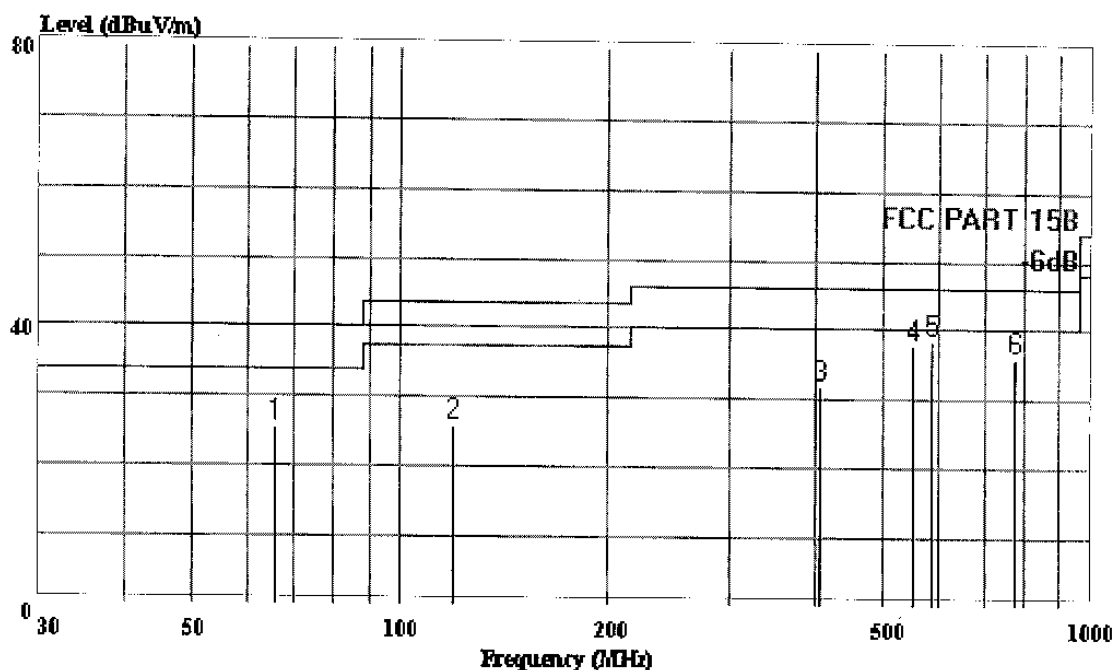
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 134 File#: Berway.EMI

Date: 2004-03-05 Time: 15:29:31



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH0 Tx

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	65.890	25.68	40.00	-14.32	14.45	1.59	9.63
2	119.240	25.85	43.50	-17.65	12.44	2.23	11.18
3	407.330	31.78	46.00	-14.22	10.90	4.63	16.24
4	552.830	37.75	46.00	-8.25	11.29	6.05	20.41
5	589.690	38.31	46.00	-7.69	12.98	6.08	19.26
6	773.990	35.97	46.00	-10.03	7.58	6.78	21.61



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

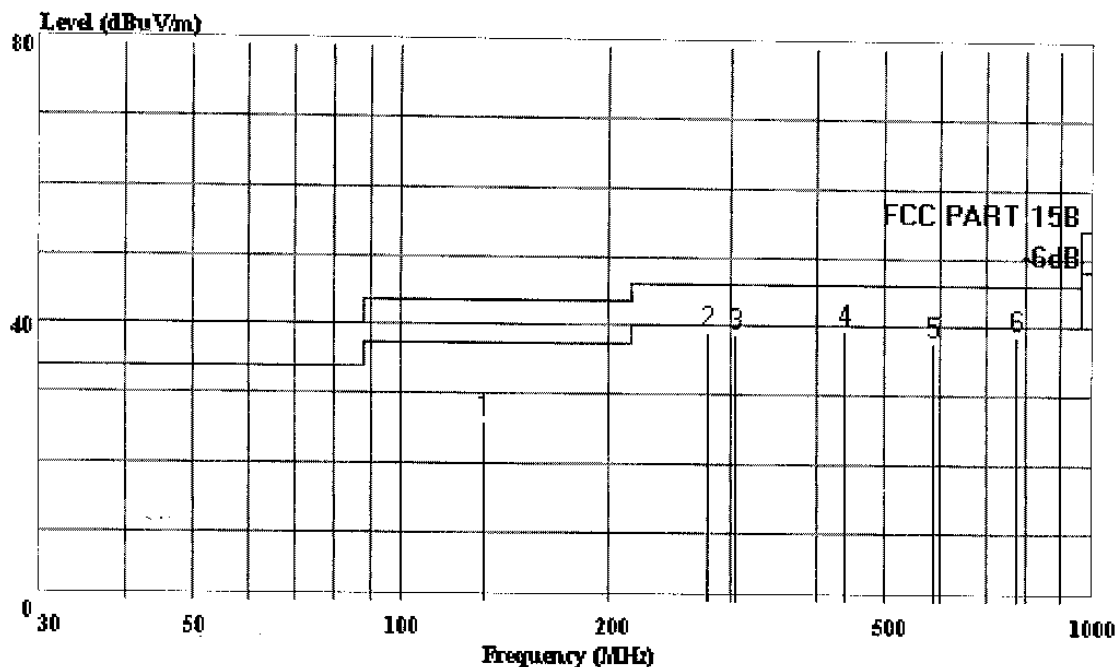
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 126 File#: Berway.EMI

Date: 2004-02-20 Time: 22:44:19



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : Wireless Controller for PS2

M/N : S619

Power : DC 8V(via PS2)

Test Engineer: Richzhv

Test Comment: Temp:24'C Humi:56%

Memo : Host CH39 Tx

: AntPos:1.2m TablePos:0'

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
			dBuV/m	dB	dBuV	dB	dB
1	131.850	26.12	43.50	-17.38	11.66	2.33	12.13
2	279.290	39.12	46.00	-6.88	22.62	3.62	12.88
3	305.480	38.74	46.00	-7.26	21.31	3.85	13.58
4	439.340	39.47	46.00	-6.53	17.69	4.91	16.87
5	589.690	37.76	46.00	-8.24	12.74	6.08	18.94
6	777.870	38.75	46.00	-7.25	9.93	7.20	21.62



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

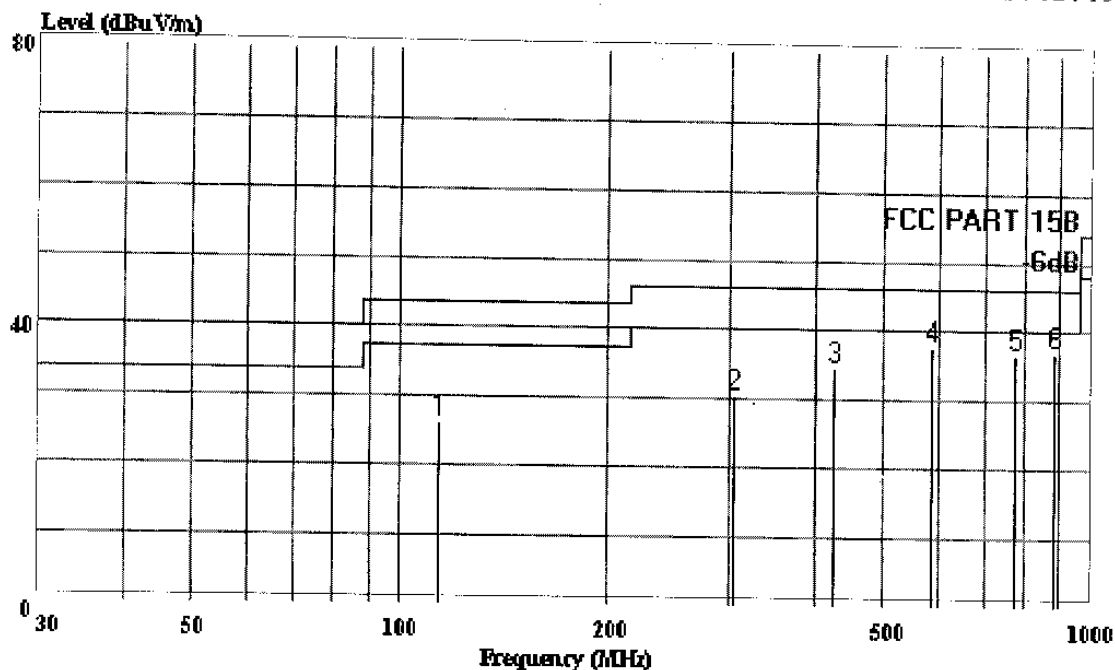
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 125 File#: Berway.EMI

Date: 2004-02-20 Time: 22:42:49



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : Wireless Controller for PS2

M/N : S619

Power : DC 8V(via PS2)

Test Engineer: Richzhv

Test Comment: Temp:24''C Humi:56%

Memo : Host CH39 Tx

: AntPos:1.2m TablePos:180'

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
			dBuV/m	dB	dBuV	dB	dB
1	113.420	26.20	43.50	-17.30	12.54	2.13	11.53
2	305.480	30.54	46.00	-15.46	13.20	3.85	13.49
3	424.790	34.70	46.00	-11.30	13.12	4.79	16.79
4	588.720	37.73	46.00	-8.27	12.57	6.03	19.13
5	777.870	36.76	46.00	-9.24	7.97	7.20	21.59
6	882.630	37.13	46.00	-8.87	6.40	7.28	23.45



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

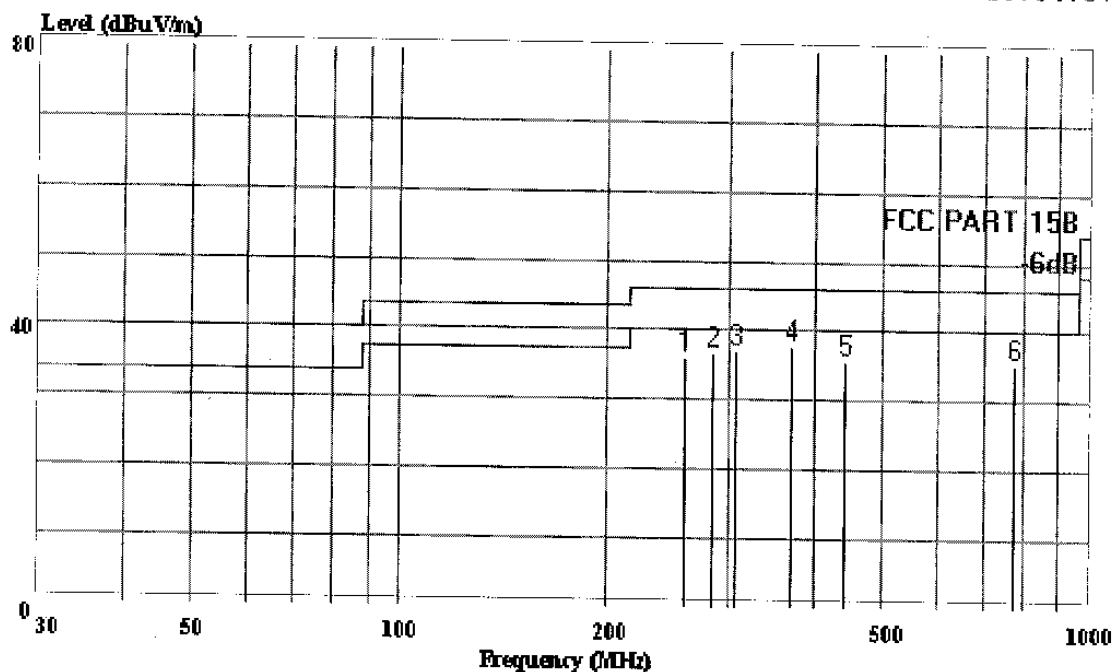
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 136 File#: Berway.EMI

Date: 2004-03-05 Time: 15:34:37



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : Wireless Controller for PS2

M/N : S619

Power : DC 8V(via PS2)

Test Engineer: Richzhv

Test Comment: Temp:24''C Humi:56%

Memo : Host CH79 Tx

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
			dBuV/m	dB	dBuV	dB	dB
1	259.890	35.93	46.00	-10.07	19.31	3.47	13.16
2	284.140	36.79	46.00	-9.21	20.30	3.62	12.87
3	307.420	36.93	46.00	-9.07	19.49	3.85	13.60
4	371.440	37.88	46.00	-8.12	17.70	4.37	15.80
5	443.220	35.65	46.00	-10.35	13.99	4.86	16.80
6	775.930	35.24	46.00	-10.76	6.54	7.11	21.59



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

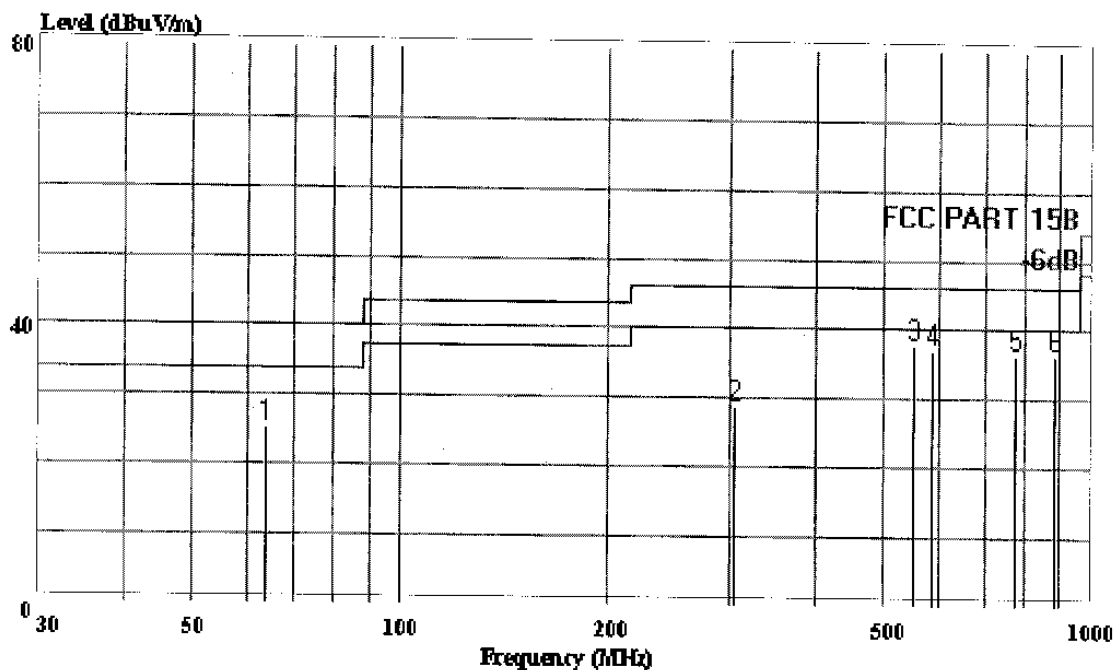
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 135 File#: Berway.EMI

Date: 2004-03-05 Time: 15:32:05



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH79 Tx

Page: 1

			Limit	Over	Read	Cable	Probe
Freq	Level	Line	Limit	Limit	Level	Loss	Factor
MHz	dBuV/m	dBuV/m		dB	dBuV	dB	dB
1	63.950	25.13	40.00	-14.87	15.16	1.57	8.40
2	305.480	28.75	46.00	-17.25	11.42	3.85	13.49
3	552.830	37.91	46.00	-8.10	11.45	6.05	20.41
4	588.720	36.93	46.00	-9.07	11.77	6.03	19.13
5	773.990	36.53	46.00	-9.47	8.14	6.78	21.61
6	882.630	36.32	46.00	-9.68	5.59	7.28	23.45



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

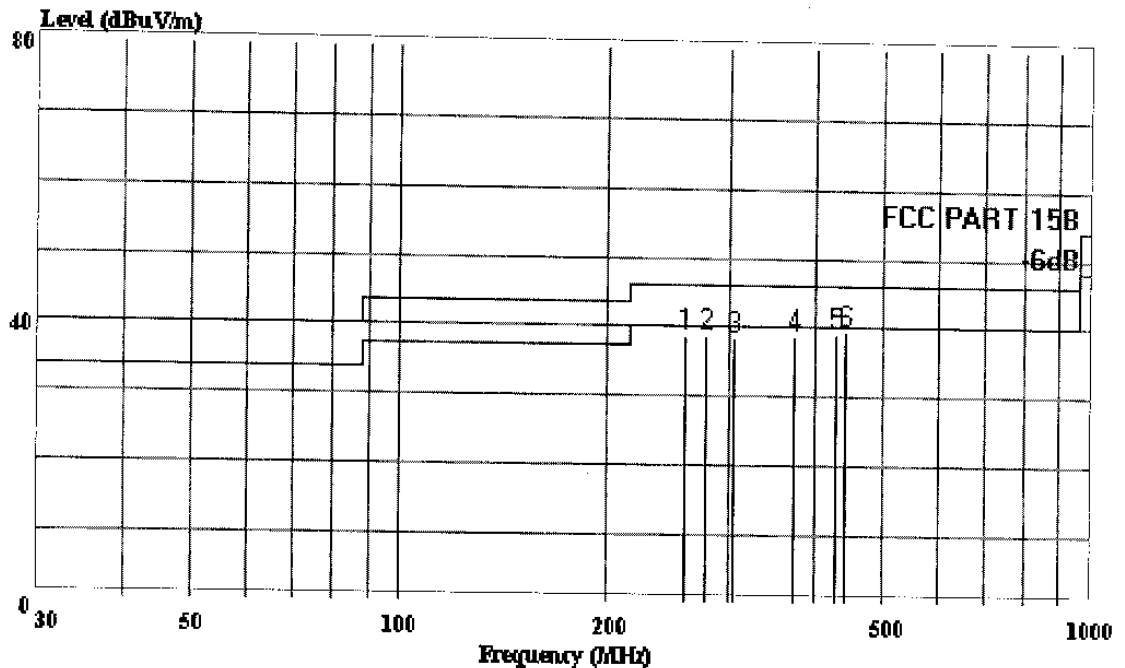
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 132 File#: Berway.EMI

Date: 2004-02-20 Time: 22:56:53



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : Wireless Controller for PS2

M/N : S619

Power : DC 8V(via PS2)

Test Engineer: Richzhv

Test Comment: Temp:24.1'C Humi:56%

Memo : Host CH0 Rx

: AntPos:1.1m TablePos:180'

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
			dBuV/m	dB	dBuV	dB	dB
1	259.890	38.70	46.00	-7.30	22.08	3.47	13.16
2	279.290	38.71	46.00	-7.29	22.21	3.62	12.88
3	305.480	38.56	46.00	-7.44	21.13	3.85	13.58
4	373.380	38.72	46.00	-7.28	18.42	4.35	15.95
5	428.670	39.16	46.00	-6.84	17.36	4.73	17.06
6	443.220	39.48	46.00	-6.52	17.82	4.86	16.80



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

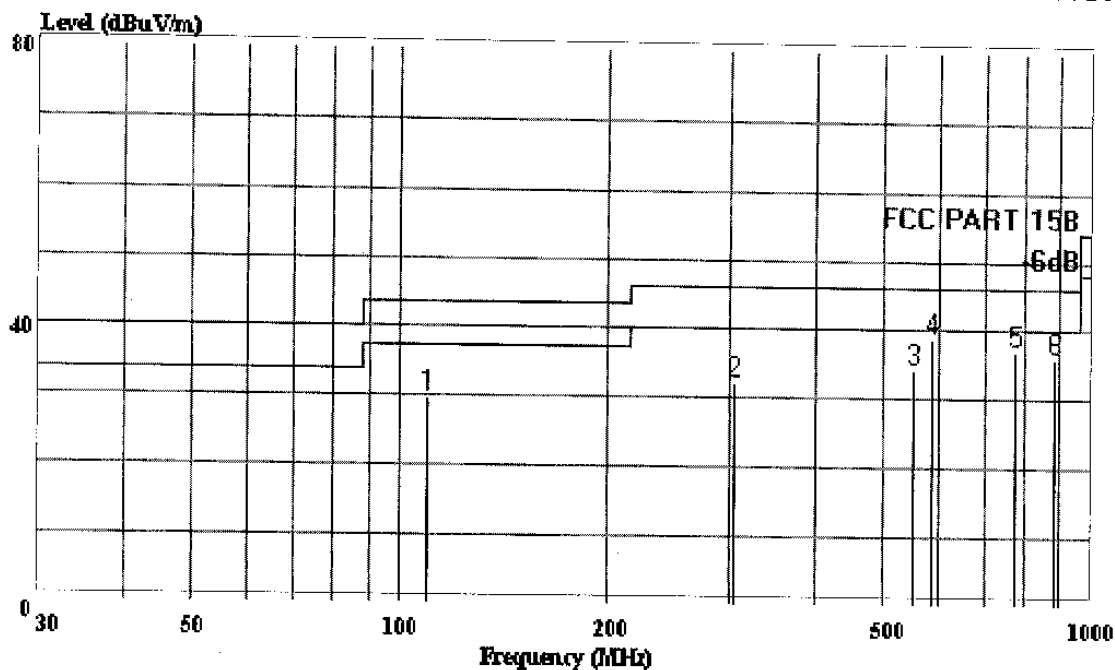
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 131 File#: Berway.EMI

Date: 2004-02-20 Time: 22:53:28



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : Wireless Controller for PS2

M/N : S619

Power : DC 8V(via PS2)

Test Engineer: Richzhv

Test Comment: Temp:24'C Humi:56%

Memo : Host CH0 Rx

: AntPos:1.1m TablePos:0'

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	109.540	29.85	43.50	-13.65	15.82	2.09	11.94
2	305.480	32.35	46.00	-13.65	15.02	3.85	13.49
3	553.800	34.36	46.00	-11.64	7.88	6.08	20.40
4	588.720	38.75	46.00	-7.25	13.59	6.03	19.13
5	773.990	37.15	46.00	-8.85	8.76	6.78	21.61
6	883.600	36.07	46.00	-9.93	5.35	7.28	23.45



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

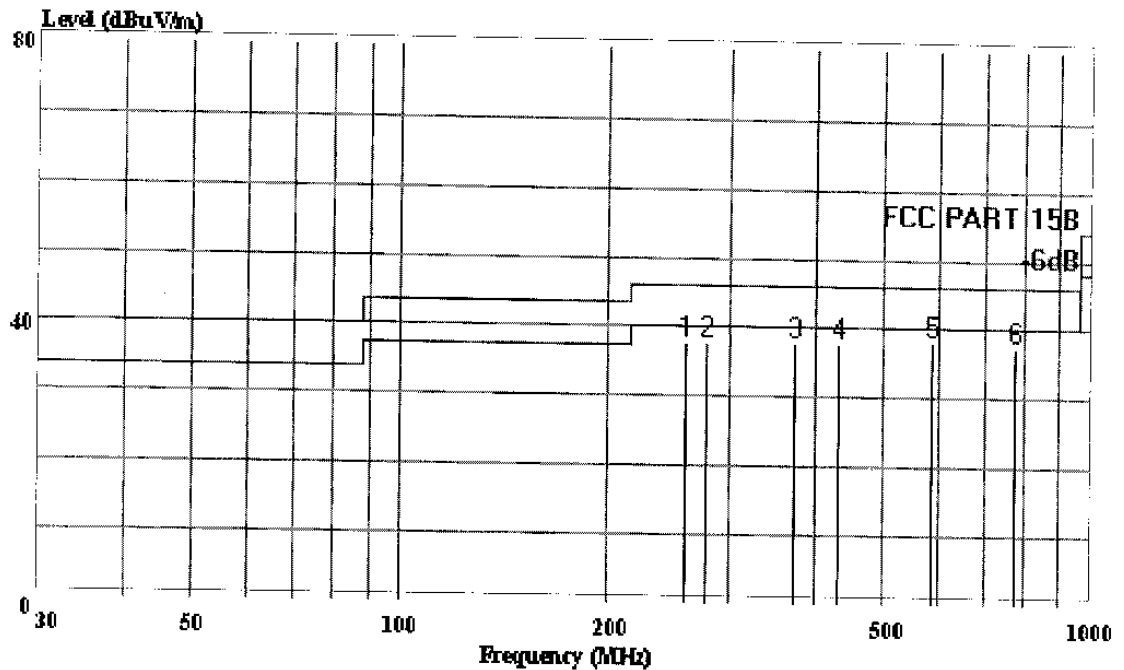
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 138 File#: Berway.EMI

Date: 2004-03-05 Time: 15:50:08



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH39 Rx

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
			dBuV/m	dB	dBuV	dB	dB
1	259.890	37.70	46.00	-8.30	21.08	3.47	13.16
2	279.290	37.71	46.00	-8.29	21.21	3.62	12.88
3	373.380	37.72	46.00	-8.28	17.42	4.35	15.95
4	432.550	37.80	46.00	-8.20	15.97	4.89	16.94
5	589.690	38.00	46.00	-8.00	12.98	6.08	18.94
6	777.870	37.49	46.00	-8.51	8.67	7.20	21.62



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

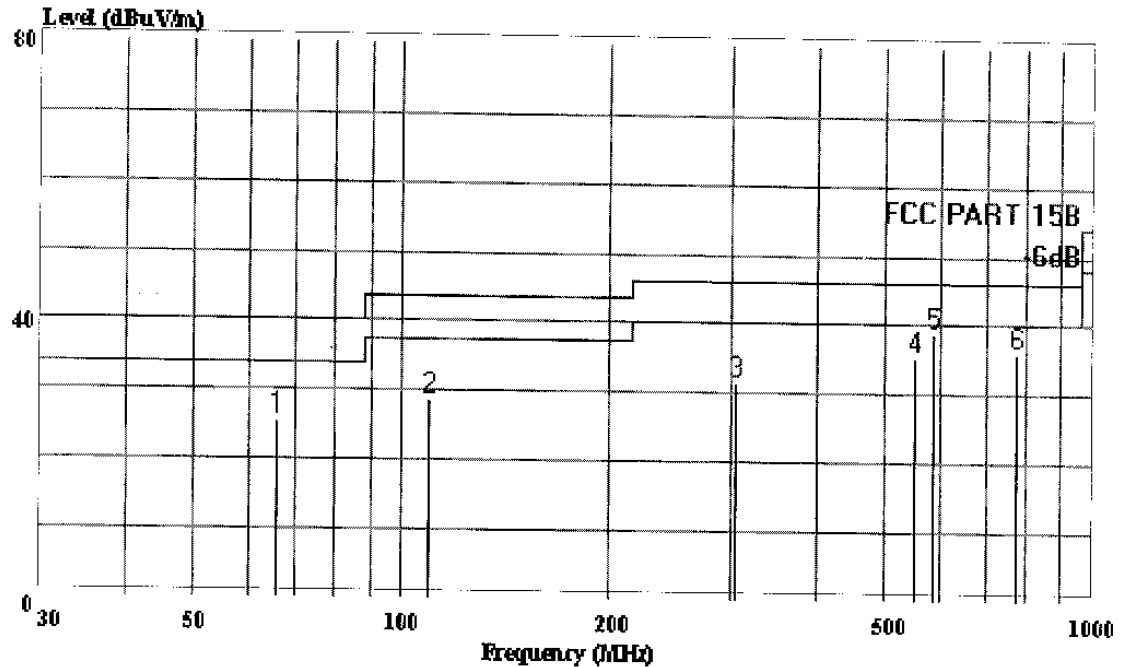
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

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Date: 2004-03-05 Time: 15:44:40



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH39 Rx

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
			dBuV/m	dB	dBuV	dB	dB
1	65.890	25.54	40.00	-14.46	14.31	1.59	9.63
2	109.540	28.85	43.50	-14.65	14.82	2.09	11.94
3	305.480	31.35	46.00	-14.65	14.02	3.85	13.49
4	552.830	35.45	46.00	-10.56	8.99	6.05	20.41
5	589.690	38.66	46.00	-7.34	13.33	6.08	19.26
6	773.990	36.15	46.00	-9.85	7.76	6.78	21.61



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

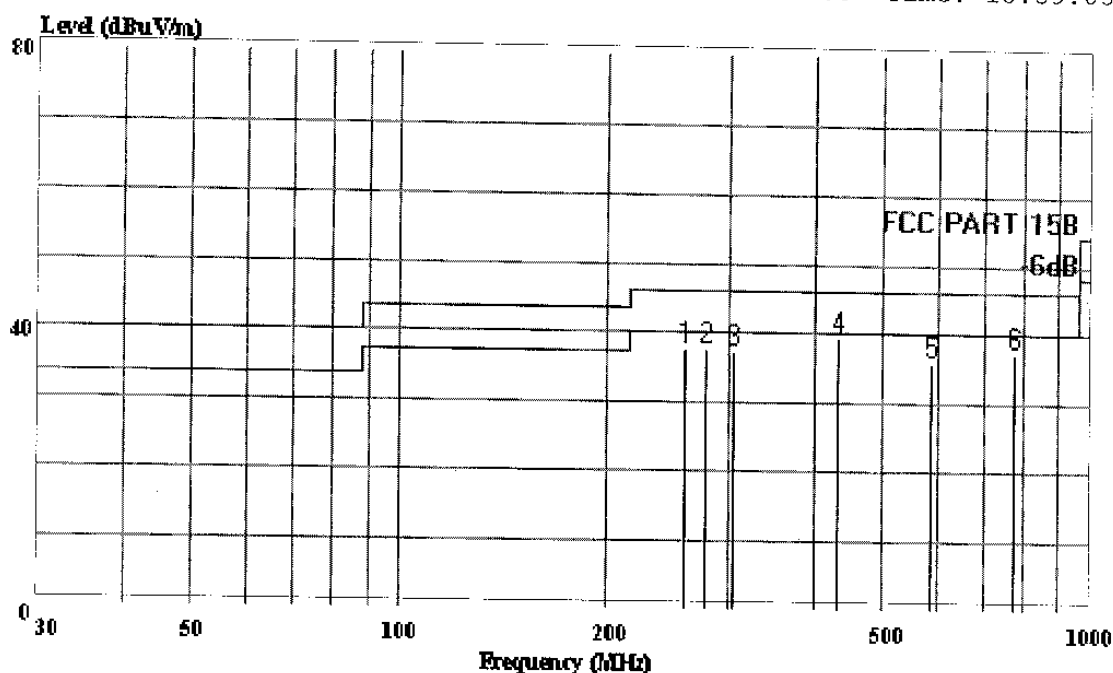
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 140 File#: Berway.EMI

Date: 2004-03-05 Time: 15:59:05



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : Wireless Controller for PS2

M/N : S619

Power : DC 8V(via PS2)

Test Engineer: Richzhv

Test Comment: Temp:24'C Humi:56%

Memo : Host CH79 Rx

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
			dBuV/m	dB	dBuV	dB	dB
1	259.890	37.70	46.00	-8.30	21.08	3.47	13.16
2	279.290	37.71	46.00	-8.29	21.21	3.62	12.88
3	305.480	37.56	46.00	-8.44	20.13	3.85	13.58
4	430.610	39.32	46.00	-6.68	17.54	4.73	17.05
5	589.690	36.00	46.00	-10.00	10.98	6.08	18.94
6	777.870	37.49	46.00	-8.51	8.67	7.20	21.62



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

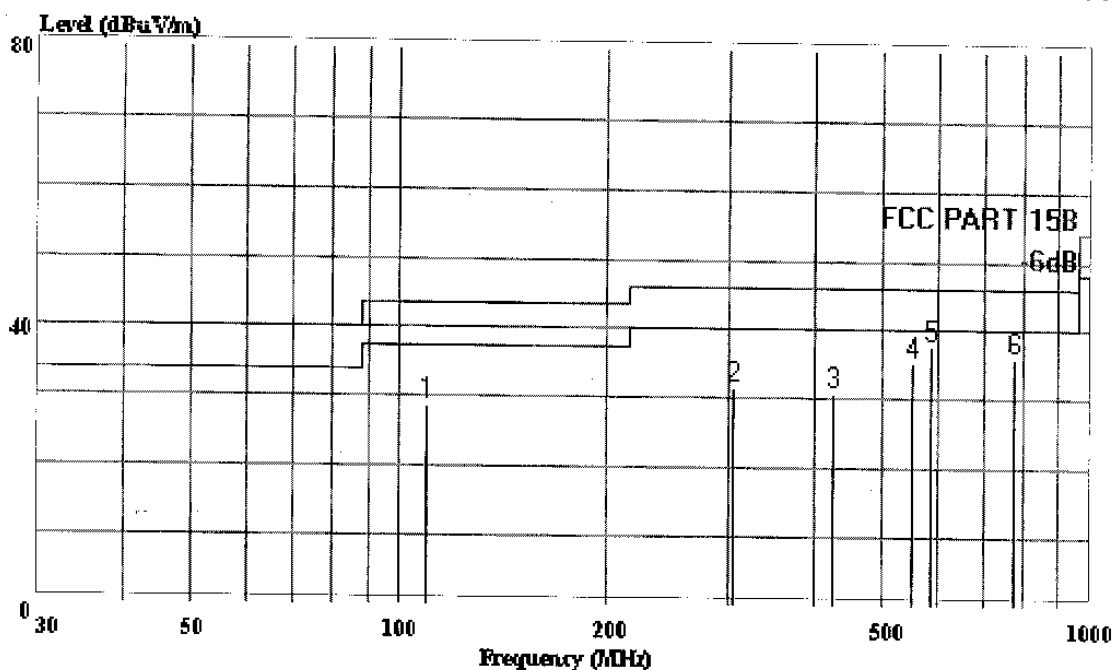
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 139 File#: Berway.EMI

Date: 2004-03-05 Time: 15:55:33



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : Wireless Controller for PS2

M/N : S619

Power : DC 8V(via PS2)

Test Engineer: Richzhv

Test Comment: Temp:24'C Humi:56%

Memo : Host CH79 Rx

Page: 1

			Limit	Over	Read	Cable	Probe
Freq	Level	Line	Limit	Limit	Level	Loss	Factor
MHz	dBuV/m	dBuV/m		dB	dBuV	dB	dB
1	109.540	28.85	43.50	-14.65	14.82	2.09	11.94
2	305.480	31.35	46.00	-14.65	14.02	3.85	13.49
3	424.790	30.98	46.00	-15.02	9.40	4.79	16.79
4	552.830	35.45	46.00	-10.56	8.99	6.05	20.41
5	588.720	37.75	46.00	-8.25	12.59	6.03	19.13
6	773.990	36.15	46.00	-9.85	7.76	6.78	21.61

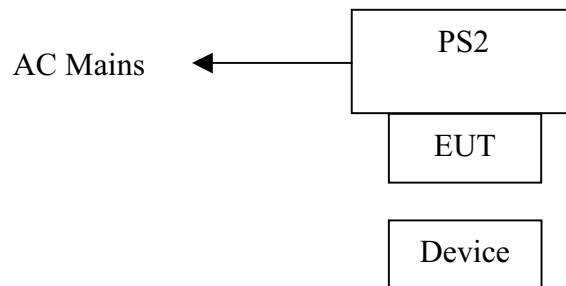
4. 20dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year

4.2. Block Diagram of Test Setup



(EUT: Wireless Controller For PS2)

4.3. Operating Condition of EUT

1. Setup the EUT as shown in Section 4.2..
2. Let the EUT work in test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx) and test it.

4.4. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. Power on the EUT and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. 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. Horn antenna is used as receiving antenna.

The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.5. Test Results

PASSED.

The testing data was attached in the next pages.

Date of Test :	<u>Mar. 05, 2004</u>	Temperature :	<u>23°C</u>
EUT :	<u>Wireless Controller For PS2</u>	Humidity :	<u>54%</u>
Model No. :	<u>S619</u>	Test Mode :	<u>Host CH0 Tx</u>
Test Engineer:	<u>Richzhy</u>		

Channel.	Frequency	20dB Bandwidth
1	2402MHz	790KHz

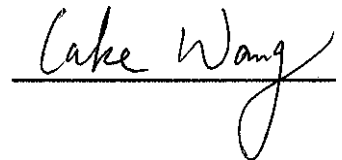
Date of Test :	<u>Mar. 05, 2004</u>	Temperature :	<u>23°C</u>
EUT :	<u>Wireless Controller For PS2</u>	Humidity :	<u>54%</u>
Model No. :	<u>S619</u>	Test Mode :	<u>Host CH39 Tx</u>
Test Engineer:	<u>Richzhy</u>		

Channel.	Frequency	20dB Bandwidth
40	2441MHz	820KHz

Date of Test :	<u>Mar. 05, 2004</u>	Temperature :	<u>23°C</u>
EUT :	<u>Wireless Controller For PS2</u>	Humidity :	<u>54%</u>
Model No. :	<u>S619</u>	Test Mode :	<u>Host CH79 Tx</u>
Test Engineer:	<u>Richzhy</u>		

Channel.	Frequency	20dB Bandwidth
80	2481MHz	800KHz

Reviewer:



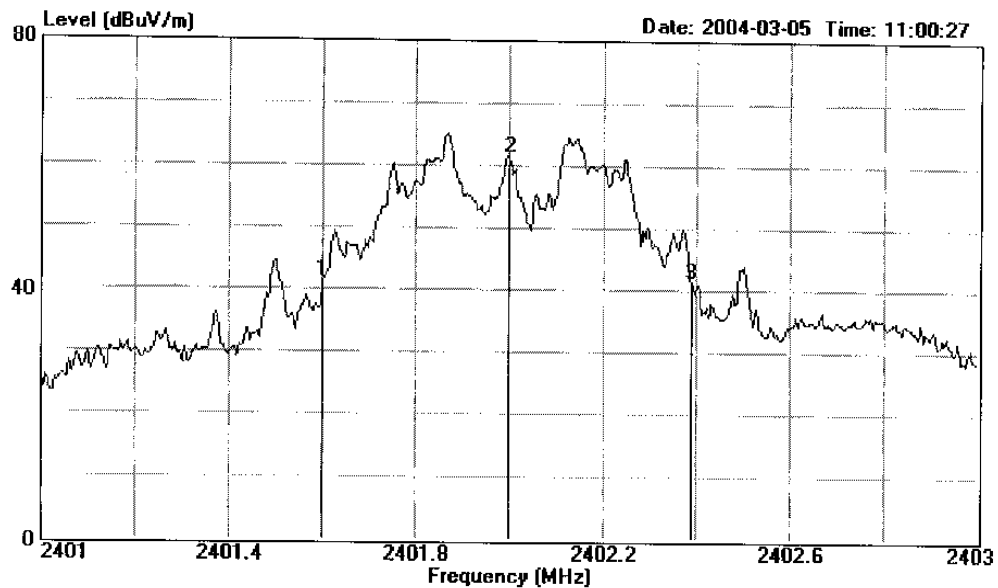


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Shenzhen Science & Industry Park
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Tel: +86-755-26639496 Fax: +86-755-26632877

Data#: 97 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CHO Tx
Test comment : Temp:23°C Humi:54%

			Over	Limit	Read	Cable	Probe	
	Freq	Level	Limit	Line	Level	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2401.600	41.43	-----	-----	10.18	3.20	28.05	Peak
2	2402.000	61.43	-----	-----	30.17	3.20	28.06	Peak
3	2402.390	41.43	-----	-----	10.15	3.21	28.07	Peak

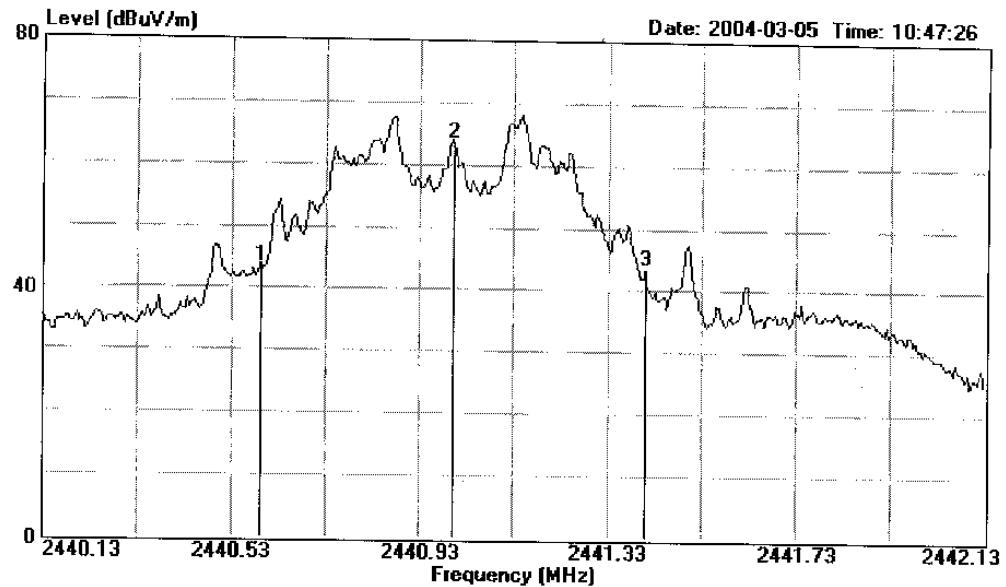


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Nantou, Shenzhen, Guangdong, China
Tel: +86-755-26639496 Fax: +86-755-26632877

Data#: 96 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : 0246B
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH39 Tx
Test comment : Temp:23°C Humi:54%

			Over	Limit	Read	Cable	Probe	
Freq	Level	Limit	Line	Level	Loss	Factor	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		
1	2440.590	43.74	-----	-----	12.37	3.23	28.14	Peak
2	2441.000	63.74	-----	-----	32.37	3.23	28.14	Peak
3	2441.410	43.74	-----	-----	12.37	3.23	28.14	Peak



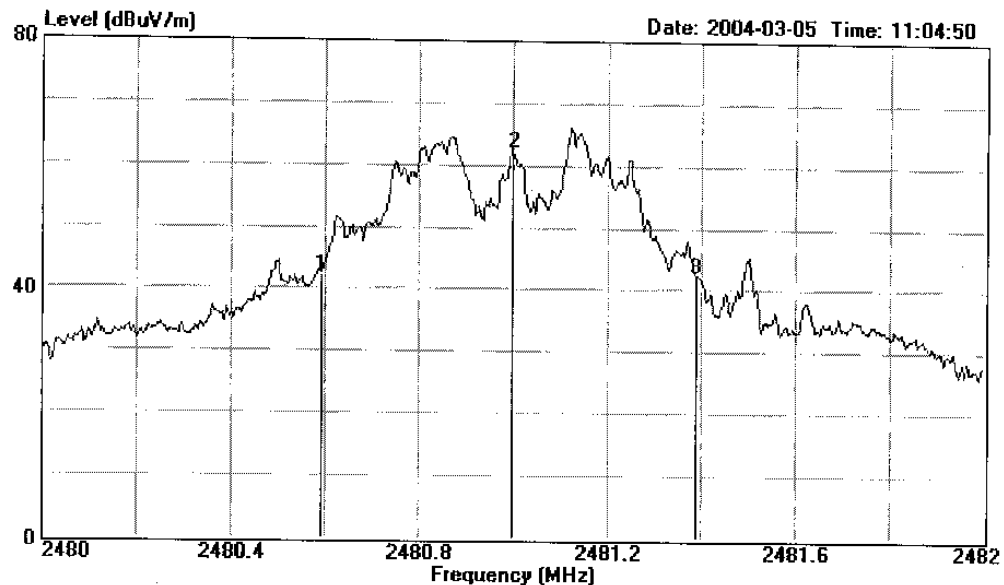
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Data#: 98

File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH79 Tx
Test comment : Temp:23°C Humi:54%

	Freq	Level	Over Limit	Limit	Read	Cable	Probe	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	Remark
1	2480.590	42.41	-----	-----	10.95	3.26	28.20	Peak
2	2481.000	62.41	-----	-----	30.95	3.26	28.20	Peak
3	2481.390	42.41	-----	-----	10.95	3.26	28.20	Peak

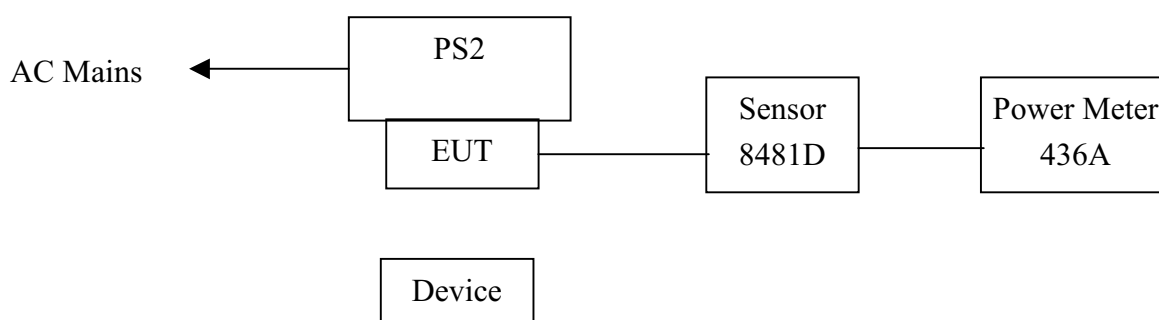
5. THE MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year
5.	Power meter	HP	436A	2016A07891	NCR	
6.	Power Sensor	HP	8481D	3318A13613	May.31, 03	1Year

5.2. Block Diagram of Test Setup



(EUT: Wireless Controller For PS2)

5.3. Specification Limits (§15.247(b)-(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm)

5.4. Operating Condition of EUT

1. Setup the EUT as shown in Section 5.2..
2. Let the EUT work in test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx) and test it.

5.5.Test Procedure

Setup the EUT as shown in Section 5.2. Turn on the play station 2 and let the EUT working . The EUT is via the power sensor link to power meter. The test value reading is from power meter.

5.6.Test Results

PASSED.

The testing data was attached in the next pages.

Date of Test :	<u>Feb. 17, 2004</u>	Temperature :	<u>23°C</u>
EUT :	<u>Wireless Controller For PS2</u>	Humidity :	<u>58%</u>
Model No. :	<u>S619</u>	Test Mode :	<u>Host CH0 Tx</u>
Test Engineer:	<u>Richzhy</u>		

Frequency	Reading dBm	Cable Loss dB	Peak Power dBm	Limit dBm
2402MHz	22.62	0.2	22.82	30.00

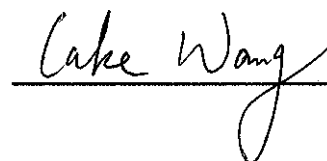
Date of Test :	<u>Feb. 17, 2004</u>	Temperature :	<u>23°C</u>
EUT :	<u>Wireless Controller For PS2</u>	Humidity :	<u>58%</u>
Model No. :	<u>S619</u>	Test Mode :	<u>Host CH39 Tx</u>
Test Engineer:	<u>Richzhy</u>		

Frequency	Reading dBm	Cable Loss dB	Peak Power dBm	Limit dBm
2441MHz	22.53	0.2	22.73	30.00

Date of Test :	<u>Feb. 17, 2004</u>	Temperature :	<u>23°C</u>
EUT :	<u>Wireless Controller For PS2</u>	Humidity :	<u>58%</u>
Model No. :	<u>S619</u>	Test Mode :	<u>Host CH79 Tx</u>
Test Engineer:	<u>Richzhy</u>		

Frequency	Reading dBm	Cable Loss dB	Peak Power dBm	Limit dBm
2481MHz	22.6	0.2	22.8	30.00

Reviewer:



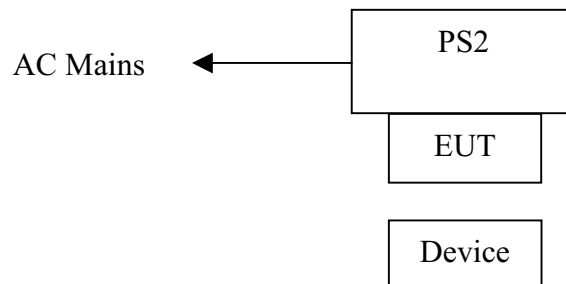
6. CHANNEL CARRIER FREQUENCIES SEPARATED MEASUREMENT

6.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year

6.2. Block Diagram of Test Setup



(EUT: Wireless Controller For PS2)

6.3. Specification Limits (§15.247(d))

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 KHz or 20dB bandwidth of the hopping channel, whichever is greater.

6.4. Operating Condition of EUT

1. Setup the EUT as shown in Section 7.2..
2. Let the EUT work in test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx) and test it.

6.5.Test Procedure

EUT and its simulators are placed on a turn table, the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it.

The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 30kHz RBW and 100kHz VBW, set sweep time : 50ms.

6.6.Test Results

PASSED.

The testing data was attached in the next pages.

1. CH39 is 2441MHz.
CH38 is 2440MHz

Channel Carrier Frequency Separated = 2441MHz – 2440MHz
= 1MHz

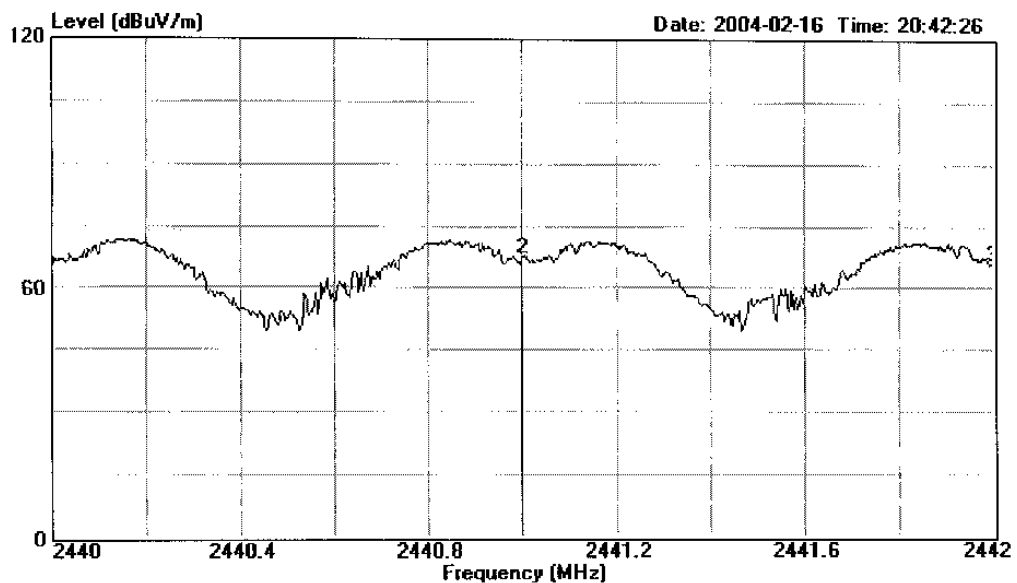


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Data#: 88 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host ch to ch
Test comment : Temp:23°C Humi:54%

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor
	MHz	dBuV/m		dB	dBuV/m	dB	dB
1	2440.000	65.38	-----	-----	34.01	3.23	28.14
2	2441.000	67.53	-----	-----	36.16	3.23	28.14
3	2442.000	65.88	-----	-----	34.51	3.23	28.14

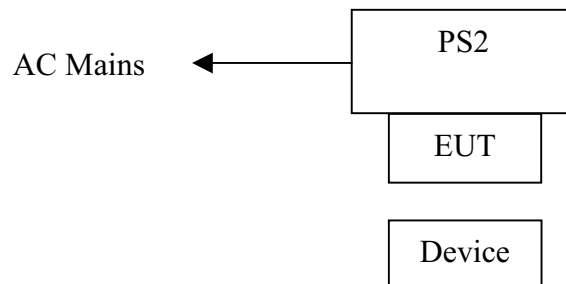
7. FREQUENCY HOPPING SYSTEM CHANNEL NUMBER MEASUREMENT

7.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year

7.2. Block Diagram of Test Setup



(EUT: Wireless Controller For PS2)

7.3. Specification Limits (§15.247(d))

For frequency hopping systems operating in the 2400-2483.5MHz band employing at least 75 hopping channels.

7.4. Operating Condition of EUT

1. Setup the EUT as shown in Section 8.2..
2. Let the EUT work in test mode and test it.

7.5.Test Procedure

EUT and its simulators are placed on a turn table, the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it.

The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 100kHz RBW and 100kHz VBW, set sweep time : 50ms.

7.6.Test Results

PASSED.

The testing data was attached in the next pages.



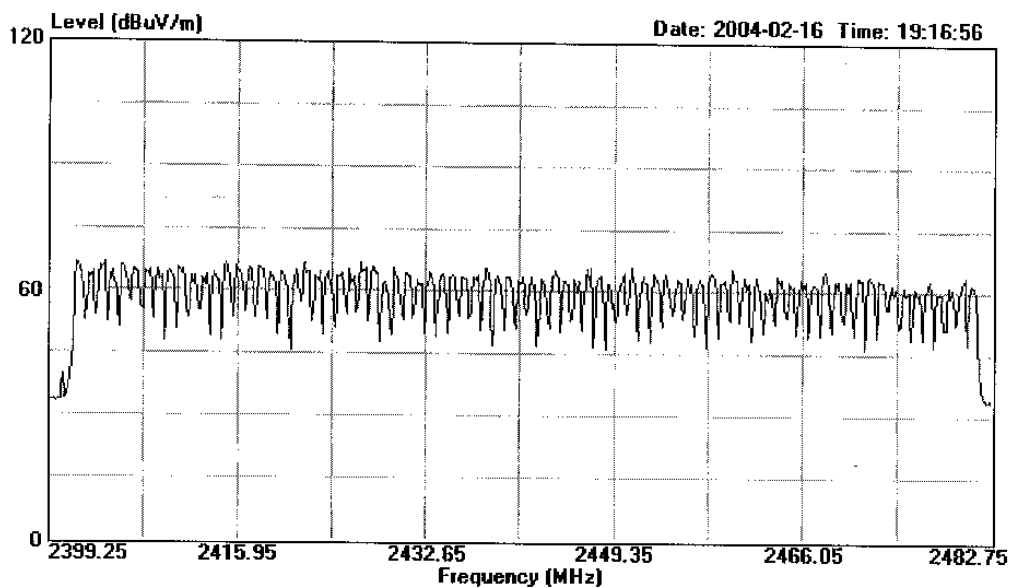
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Data#: 19

File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host ch numbers
Test comment : Temp:23°C Humi:54%

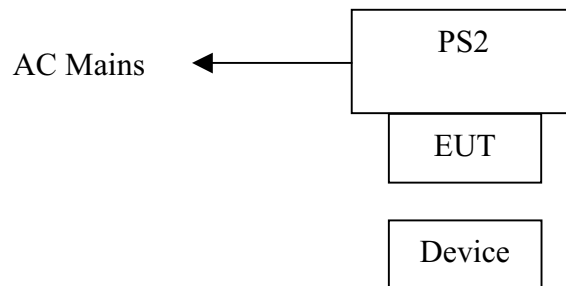
8. THE AVERAGE TIME OF OCCUPANCY MEASUREMENT

8.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year

8.2. Block Diagram of Test Setup



(EUT: Wireless Controller For PS2)

8.3. Specification Limits (§15.247(d))

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

8.4. Operating Condition of EUT

1. Setup the EUT as shown in Section 9.2..
2. Let the EUT work in test mode and test it.

8.5. Test Procedure

EUT and its simulators are placed on a turn table, the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it.

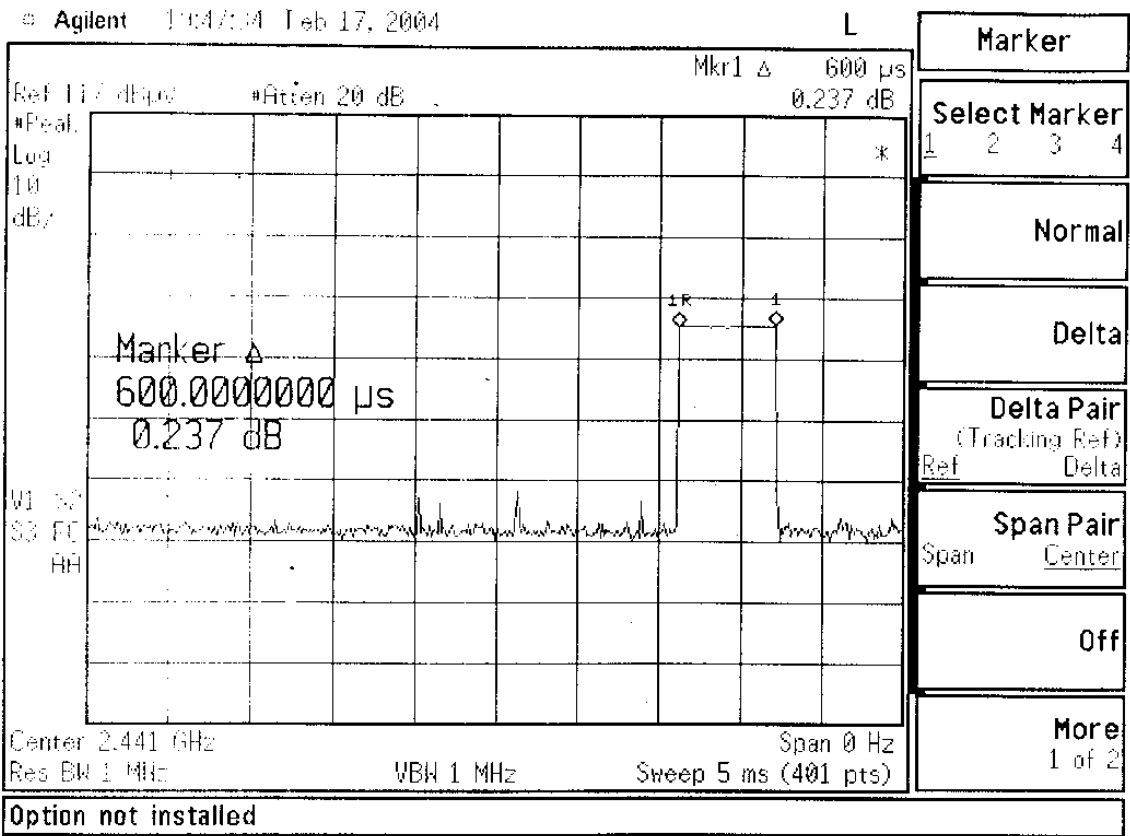
The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 1MHz RBW and 1MHz VBW, set sweep time : 5ms. Span : 0Hz.

8.6. Test Results

PASSED.

The testing data was attached in the next pages.

1. This system hop 83 times/second, every hopping include 1 time sending data and 1 time receiving data. So send times in every second to all 80 channels:
 $83/2=41.5$ times/second
2. Sent times for average every second and every channel.
 $41.5/80=0.52$ times/channel*s
3. Cycle time: $80*0.4=32$ second
4. The average time of occupancy on any channel within a period :
 $0.52*32*0.6=9.984\text{ms} < 400\text{ms}$



9. DEVIATION TO TEST SPECIFICATIONS

(None.)

APPENDIX I

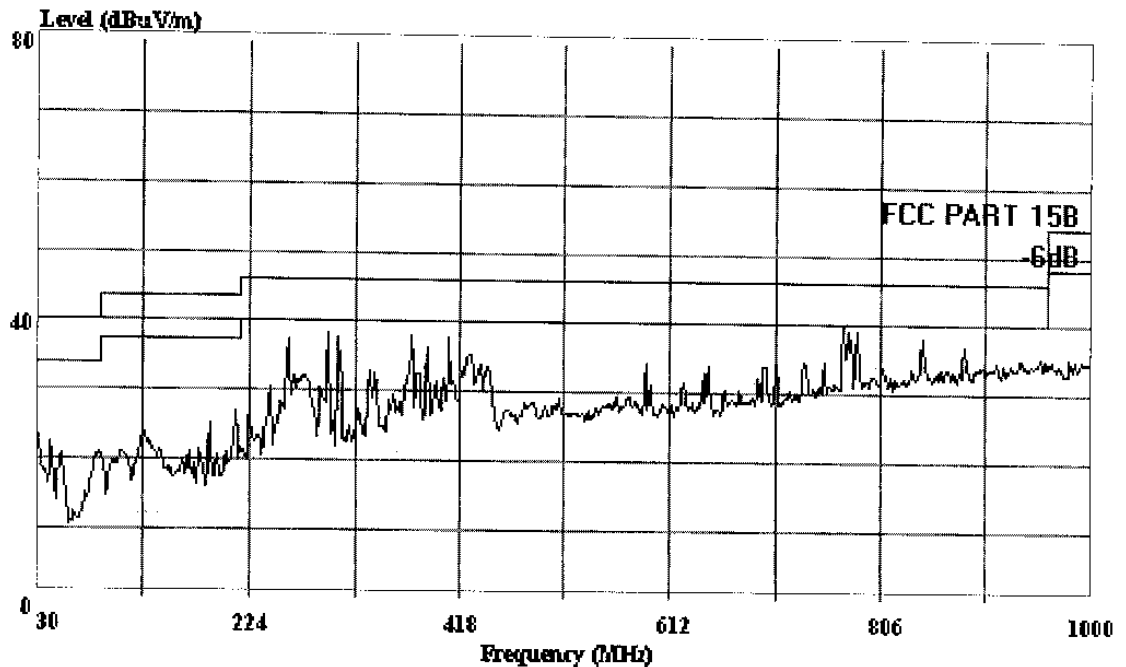


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park
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 Fax: 0755-26632877

Data#: 103 File#: Berway.EMI

Date: 2004-02-18 Time: 21:50:14



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH0 Tx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

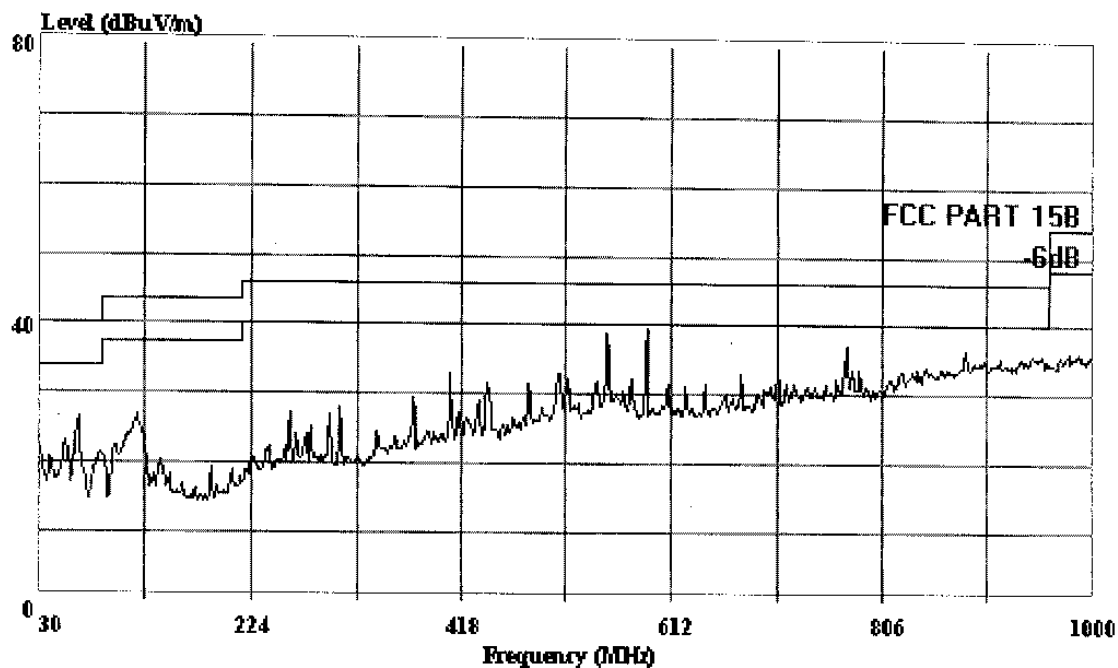
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Fax: 0755-26632877

Data#: 104 File#: Berway.EMI

Date: 2004-02-18 Time: 21:51:33



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24''C Humi:56%
 Memo : Host CH0 Tx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

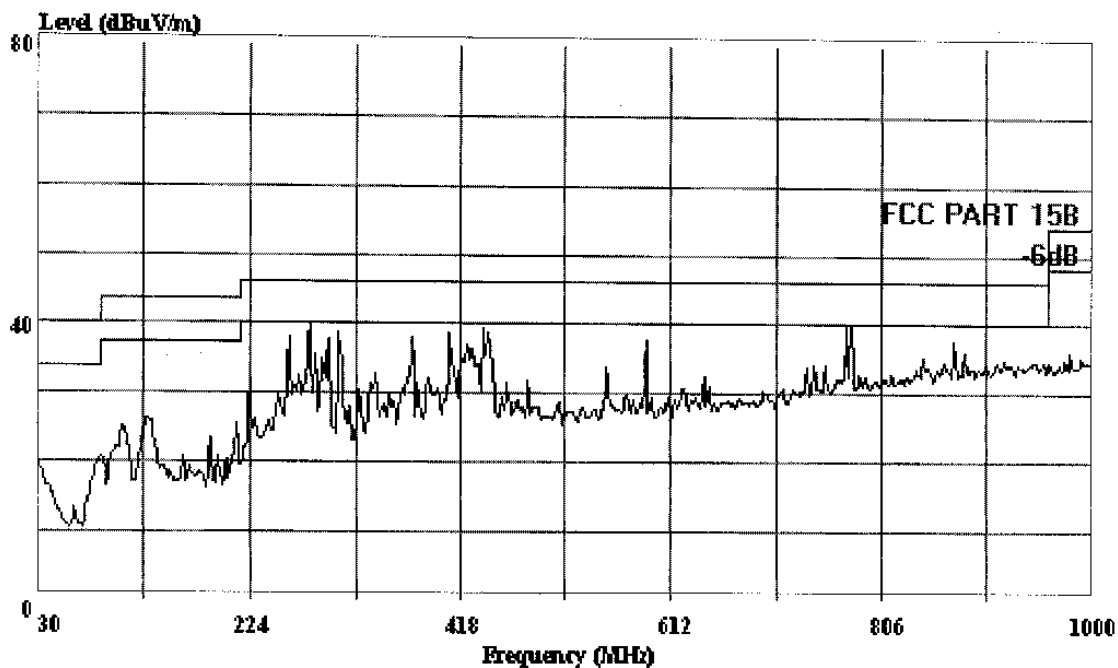
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 102 File#: Berway.EMI

Date: 2004-02-18 Time: 21:49:01



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V(via PS2)
Test Engineer: Richzhv
Test Comment: Temp:24'C Humi:56%
Memo : Host CH39 Tx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

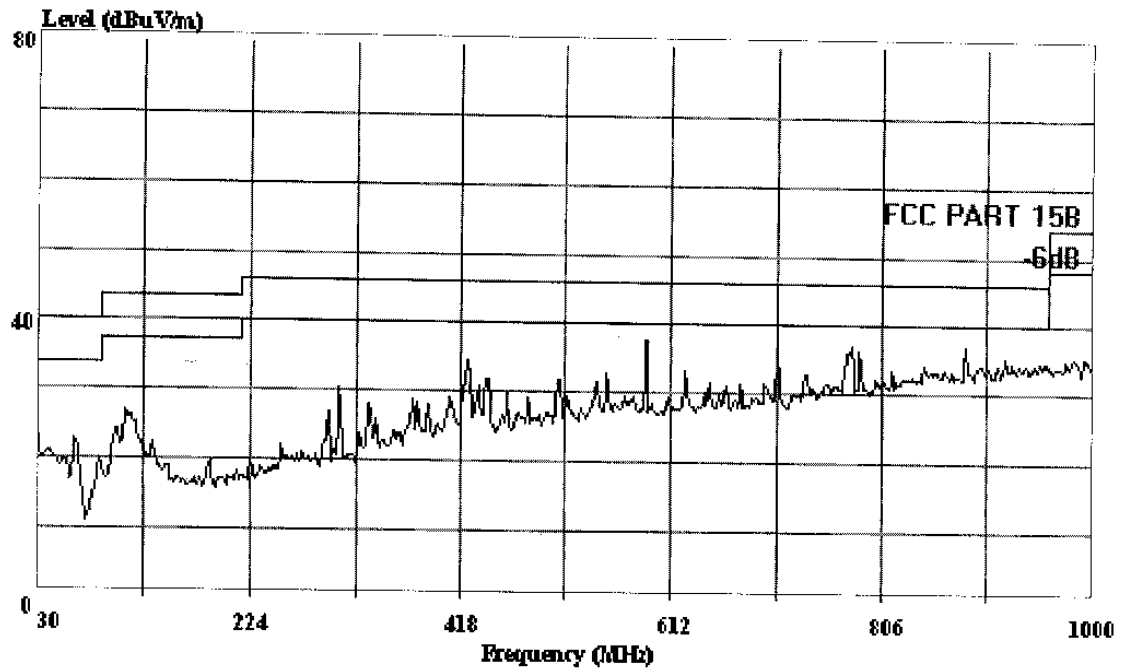
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 101 File#: Berway.EMI

Date: 2004-02-18 Time: 21:47:57



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Tempo:24'C Humi:56%
 Memo : Host CH39 Tx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

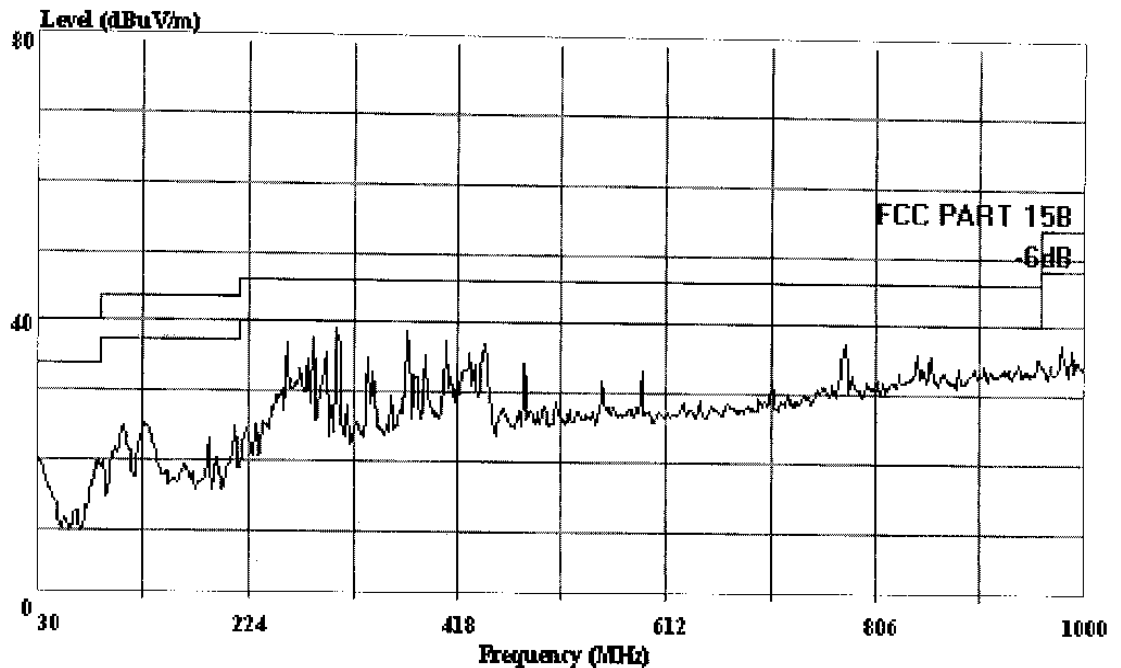
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 106 File#: Berway.EMI

Date: 2004-02-18 Time: 21:55:59



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : Wireless Controller for PS2

M/N : S619

Power : DC 8V(via PS2)

Test Engineer: Richzhv

Test Comment: Temp:24'C Humi:56%

Memo : Host CH79 Tx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

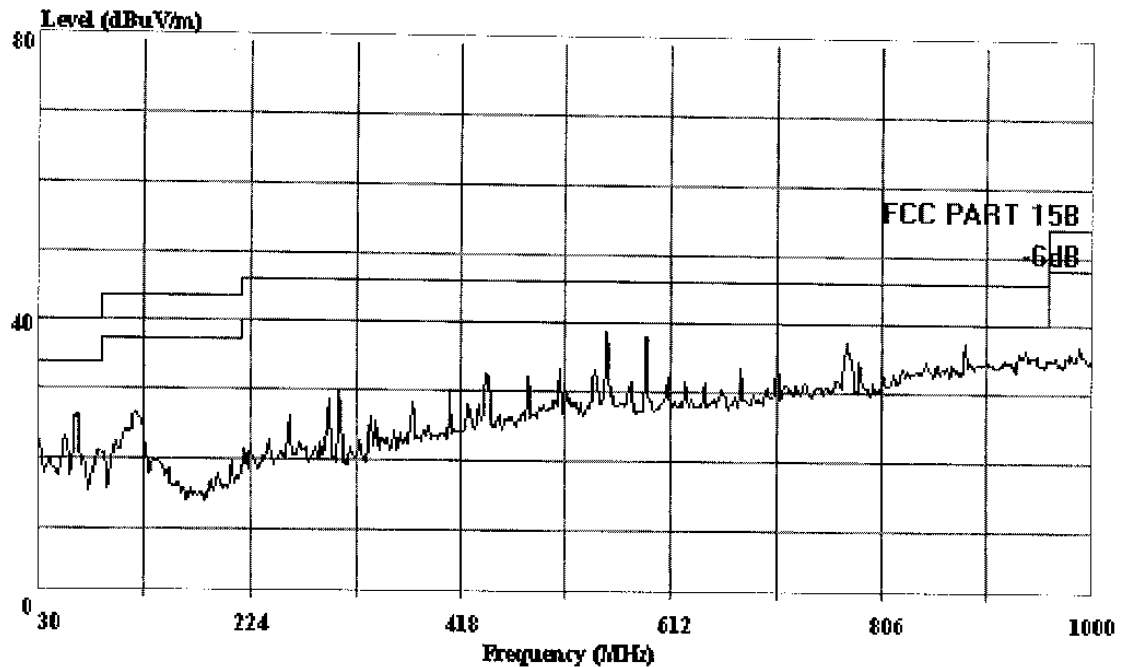
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Fax: 0755-26632877

Data#: 105 File#: Berway.EMI

Date: 2004-02-18 Time: 21:53:57



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH79 Tx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

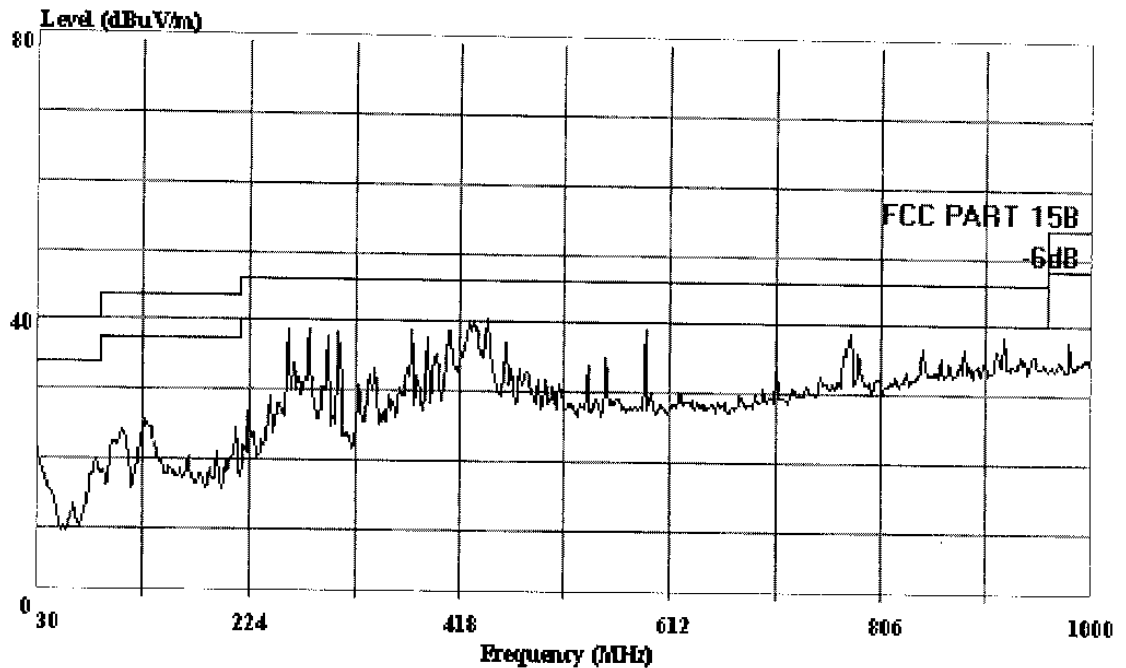
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 120 File#: Berway.EMI

Date: 2004-02-18 Time: 22:50:22



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH0 Rx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

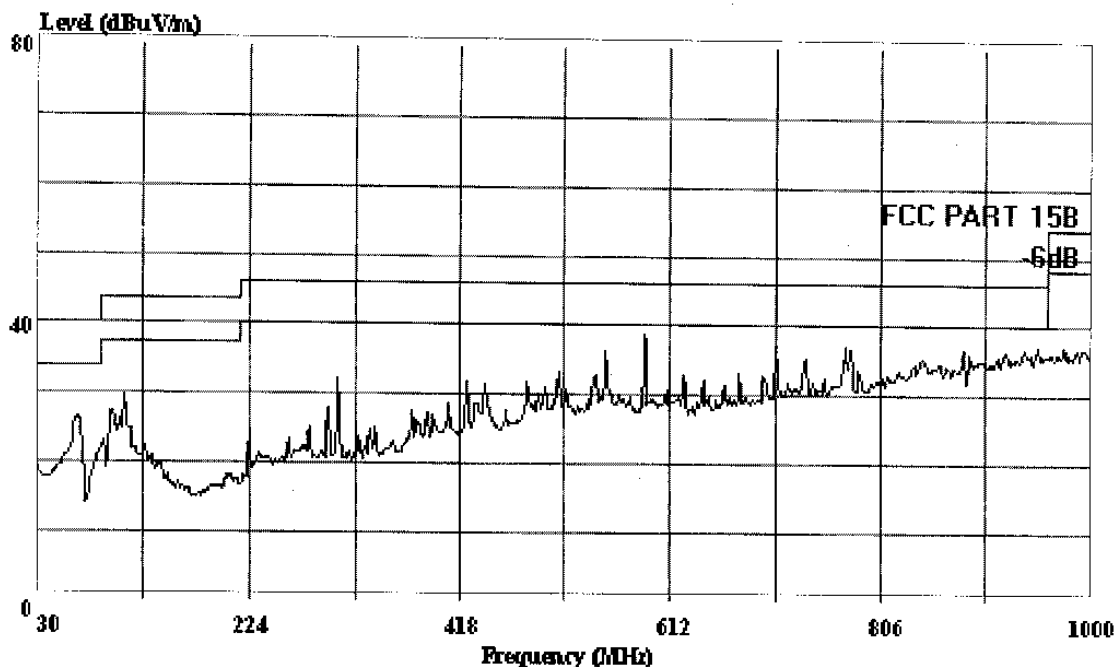
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 119 File#: Berway.EMI

Date: 2004-02-18 Time: 22:45:33



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH0 Rx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

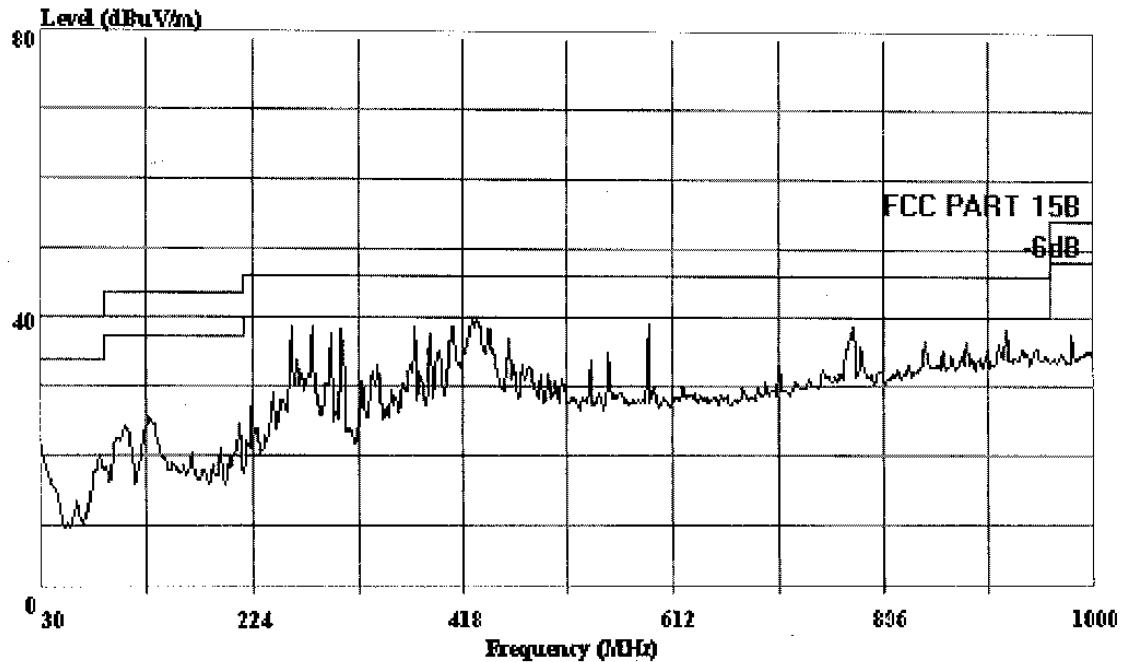
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 122 File#: Berway.EMI

Date: 2004-02-18 Time: 22:56:22



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH39 Rx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

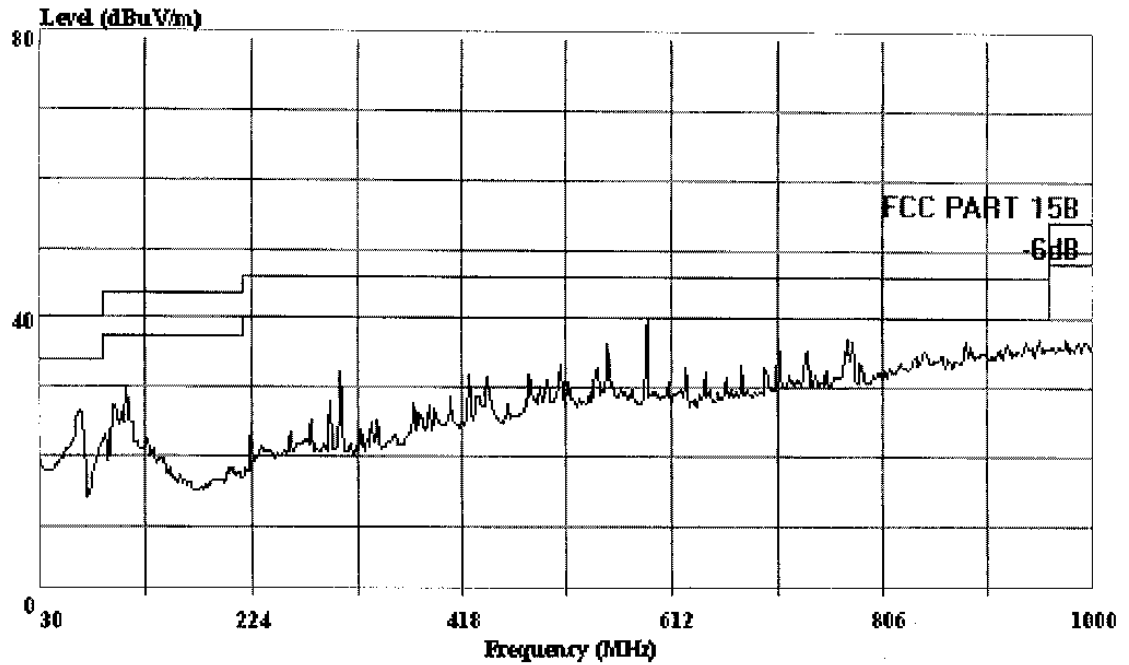
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 121 File#: Berway.EMI

Date: 2004-02-18 Time: 22:53:33



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH39 Rx



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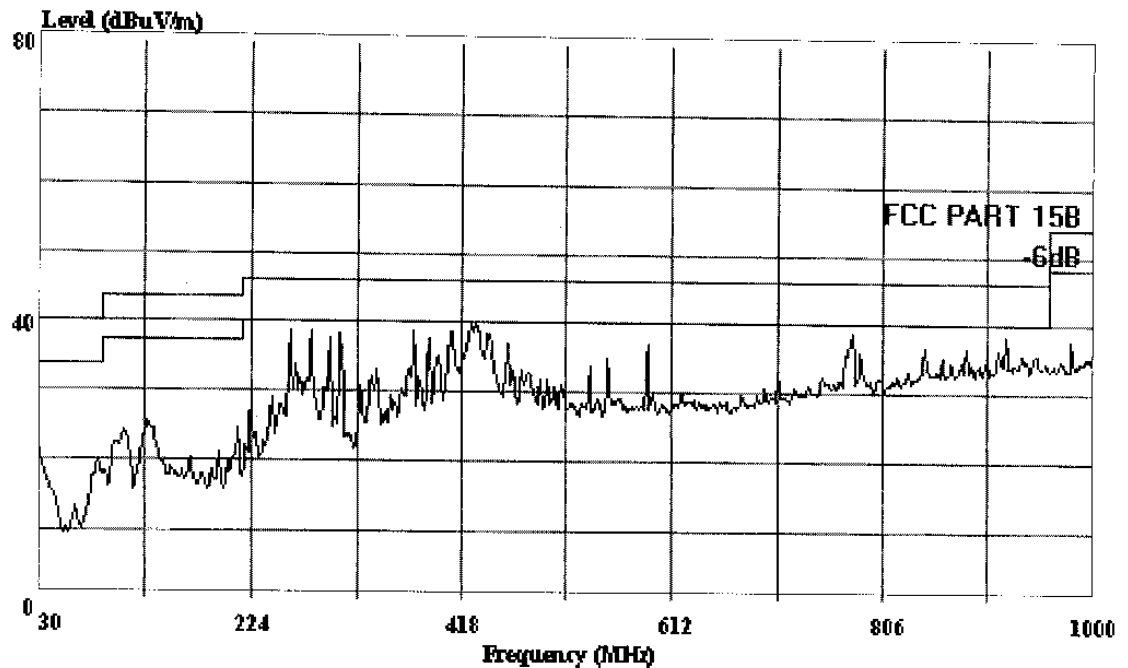
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 124 File#: Berway.EMI

Date: 2004-02-18 Time: 23:01:22



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH79 Rx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

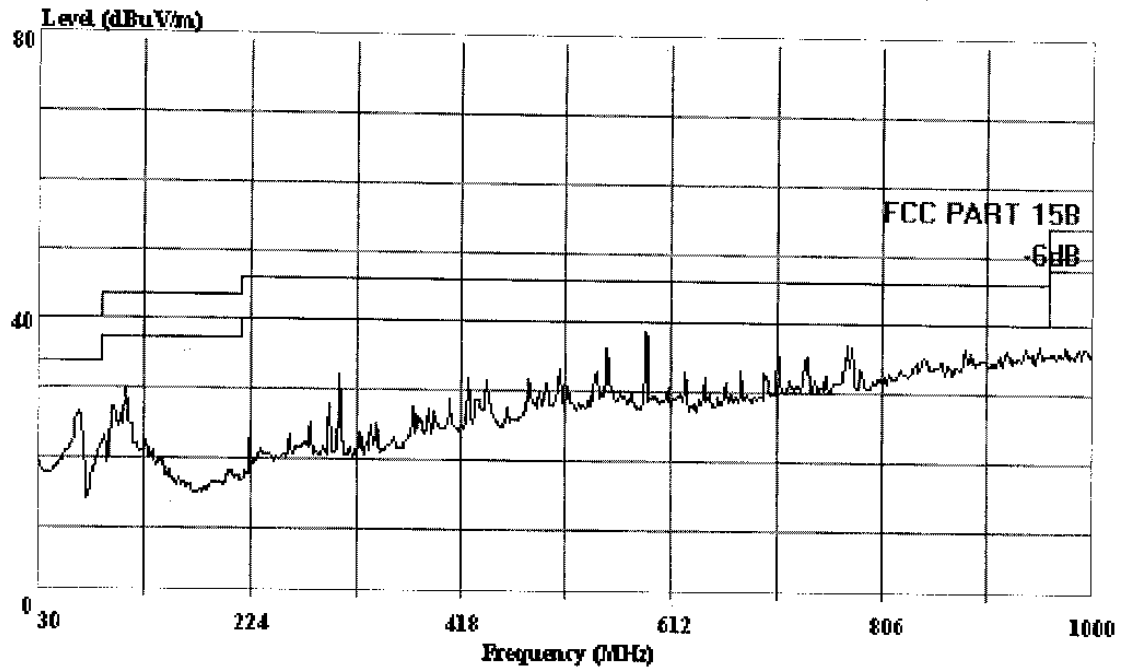
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 123 File#: Berway.EMI

Date: 2004-02-18 Time: 22:58:33



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : Wireless Controller for PS2
 M/N : S619
 Power : DC 8V(via PS2)
 Test Engineer: Richzhv
 Test Comment: Temp:24'C Humi:56%
 Memo : Host CH79 Rx

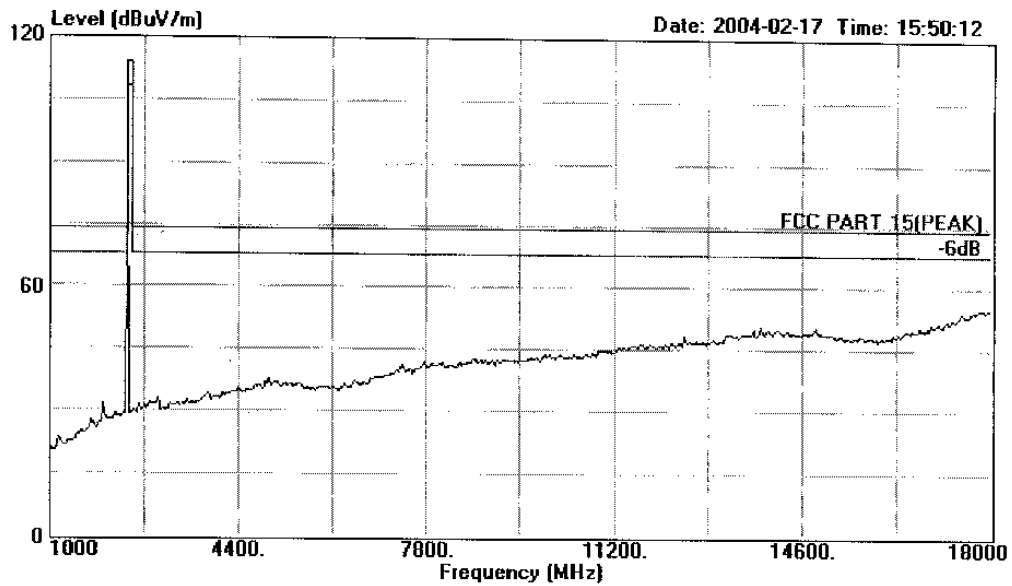


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Data#: 3 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CHO Tx
Test comment : Temp:23°C Humi:54%

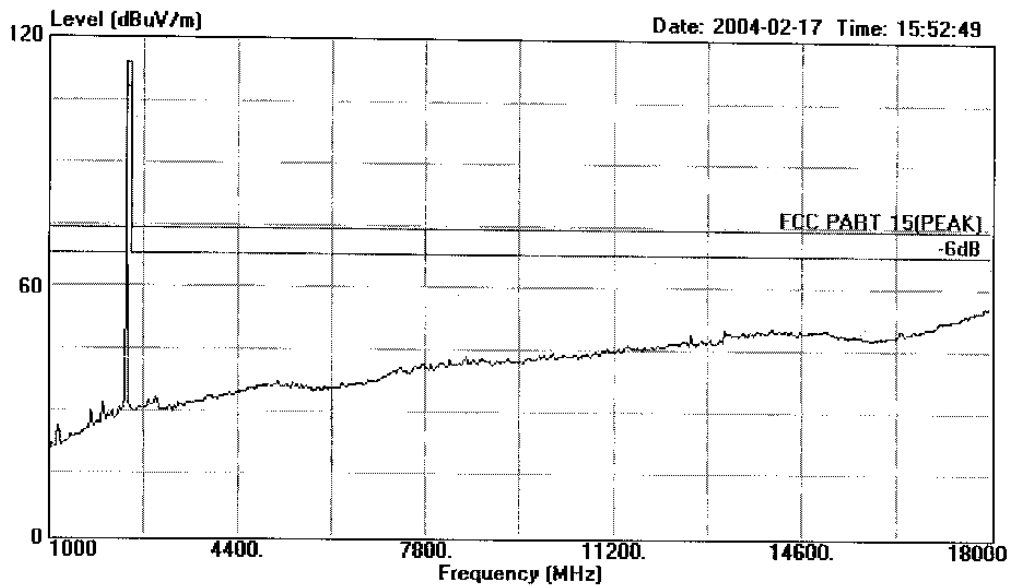


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Data#: 4 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CHO Tx
Test comment : Temp:23°C Humi:54%

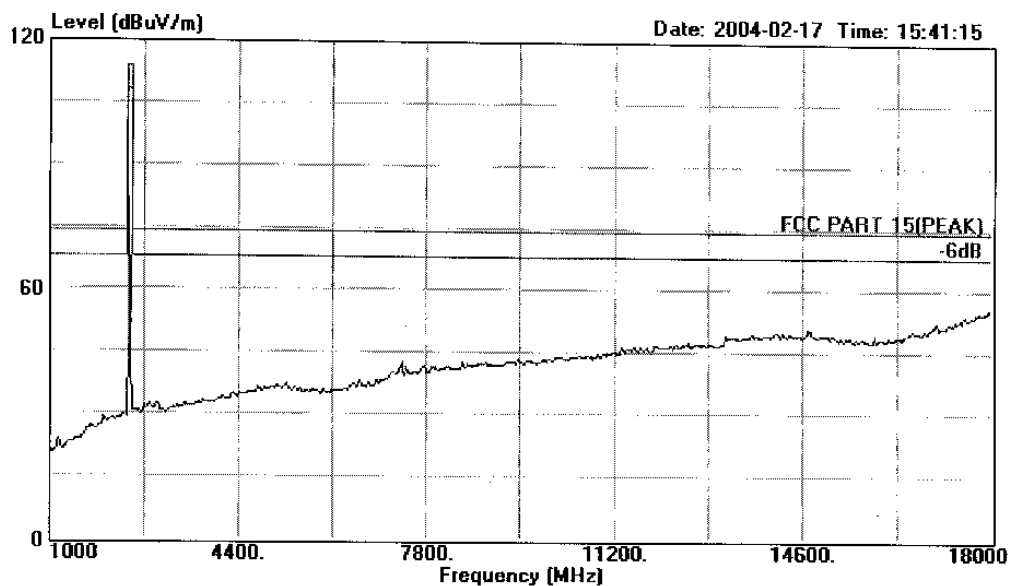


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Data#: 1 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH39 Tx
Test comment : Temp:23°C Humi:54%

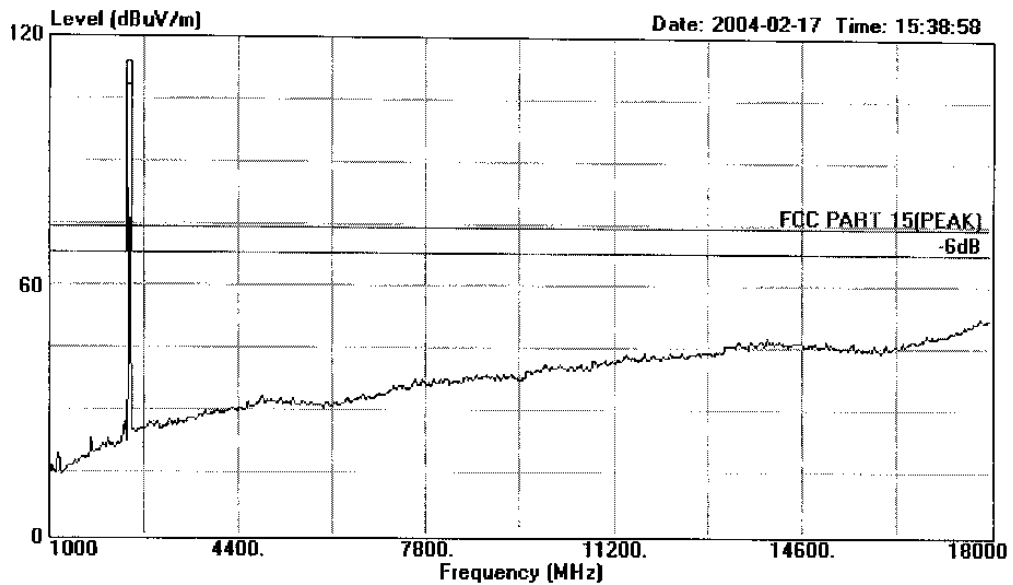


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Data#: 2 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH39 Tx
Test comment : Temp:23°C Humi:54%

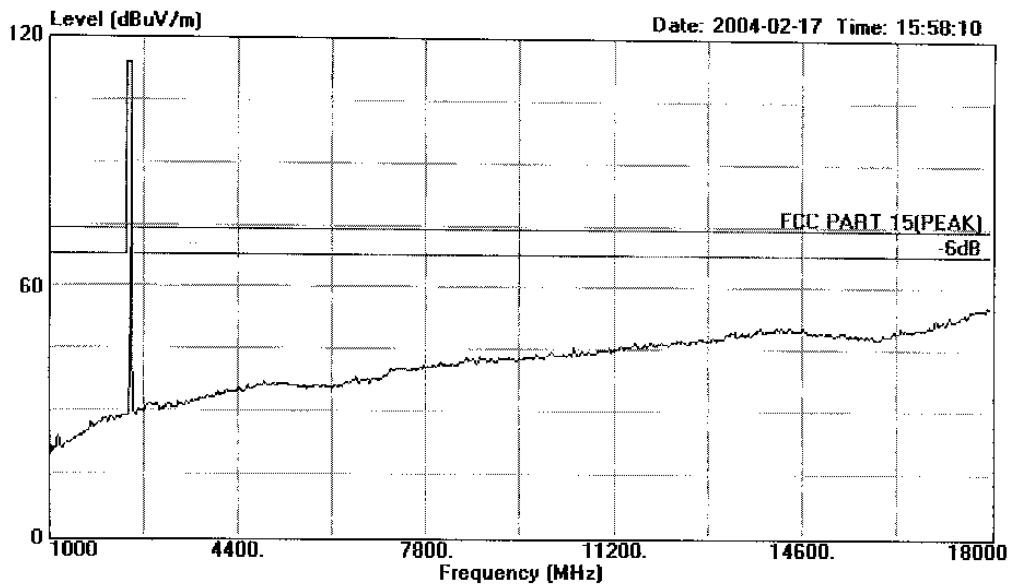


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Data#: 6 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH79 Tx
Test comment : Temp:23°C Humi:54%

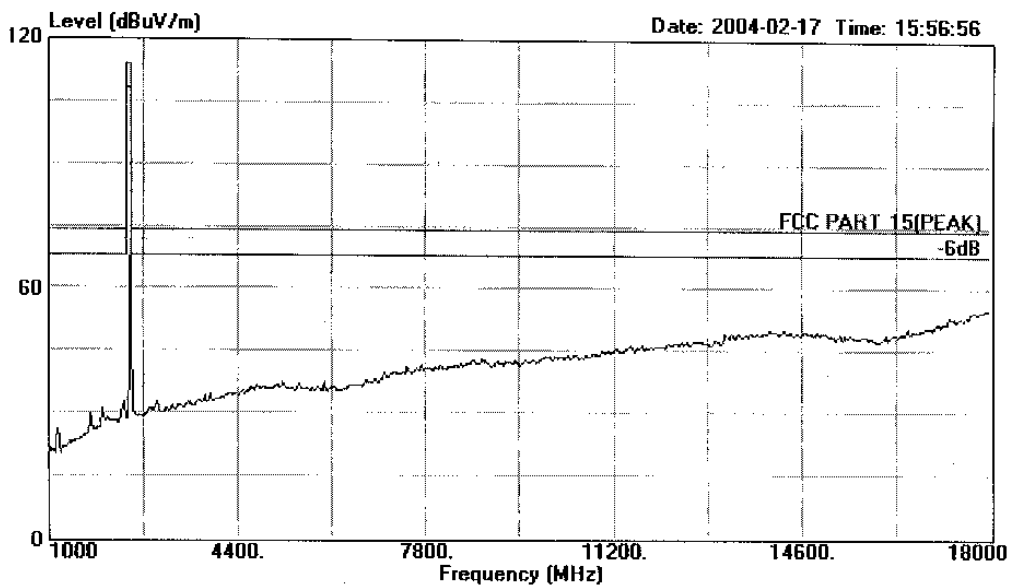


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Data#: 5 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH79 Tx
Test comment : Temp:23°C Humi:54%

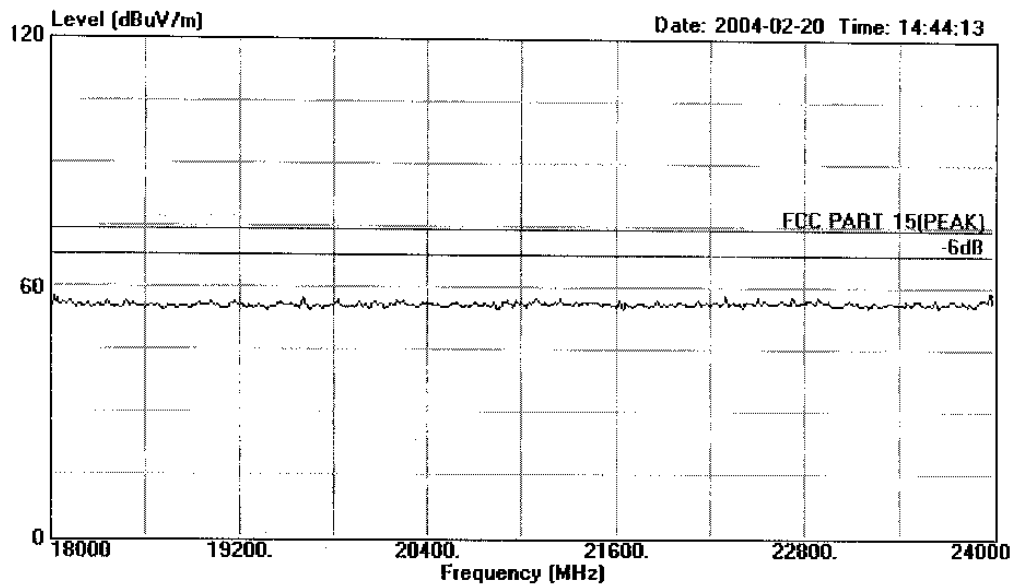


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Data#: 36 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CHO Tx
Test comment : Temp:23°C Humi:54%

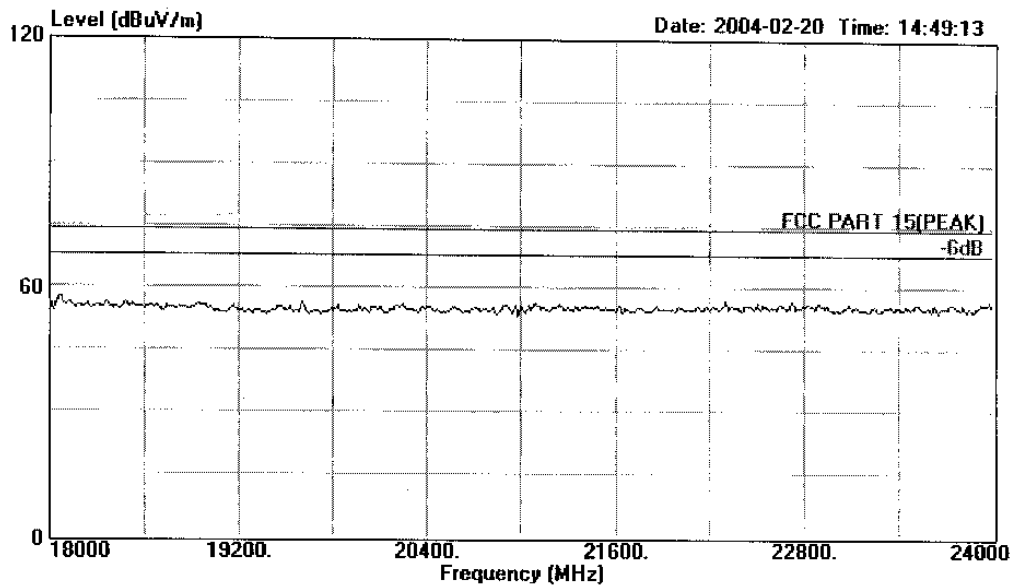


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Data#: 37 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CHO Tx
Test comment : Temp:23°C Humi:54%

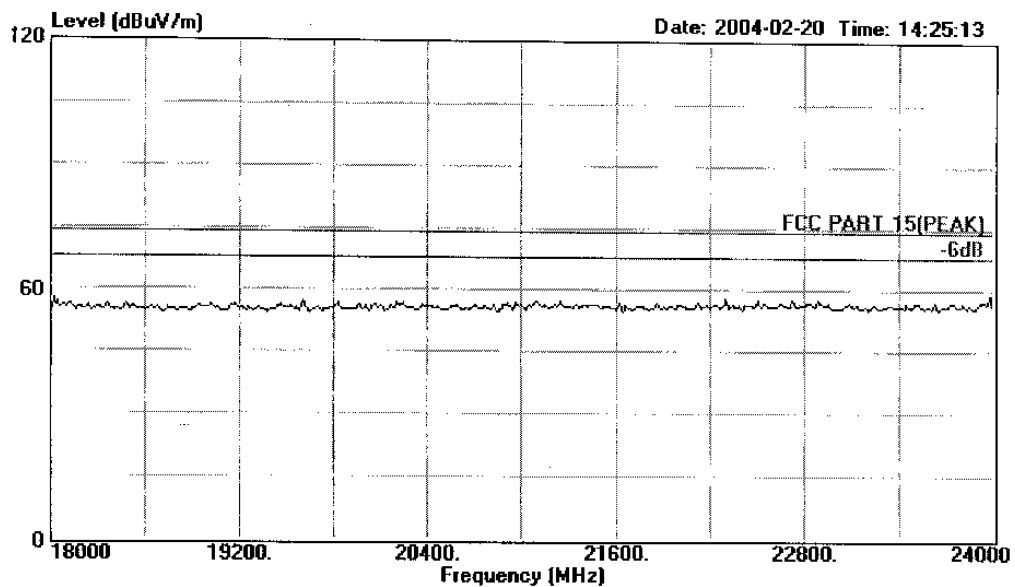


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Data#: 32 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH39 Tx
Test comment : Temp:23°C Humi:54%

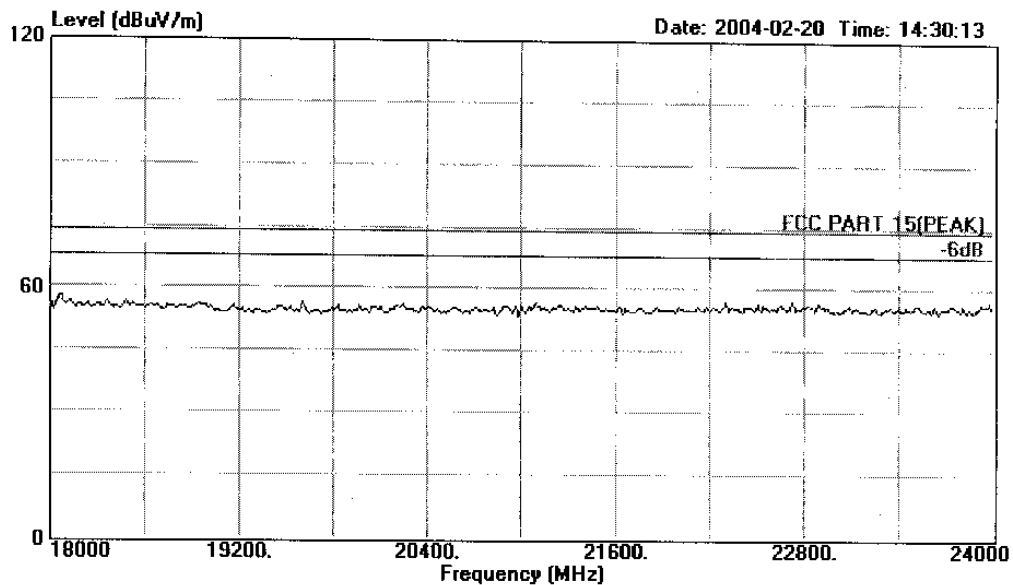


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Data#: 33 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH39 Tx
Test comment : Temp:23°C Humi:54%

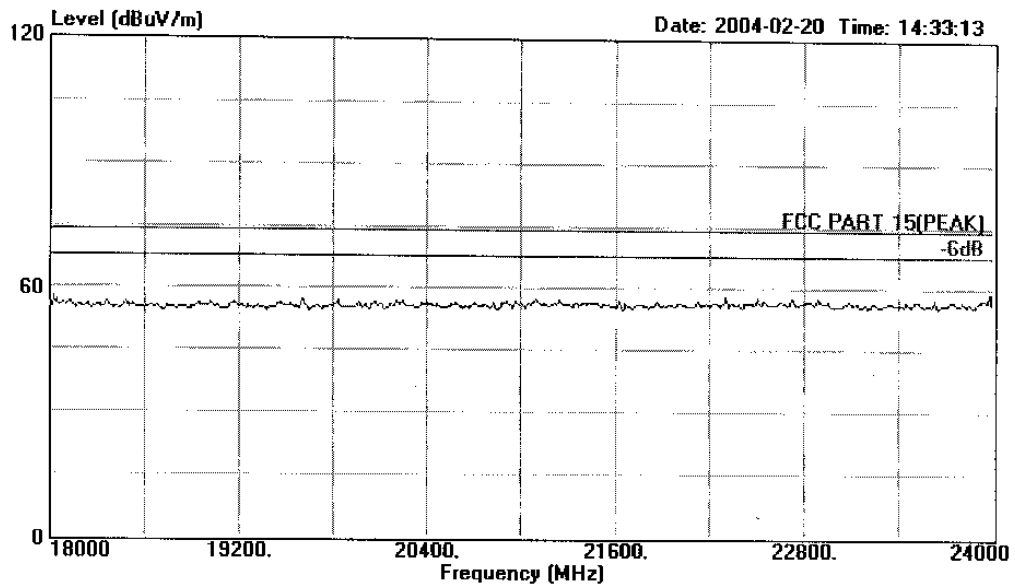


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Data#: 34 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH79 Tx
Test comment : Temp:23°C Humi:54%

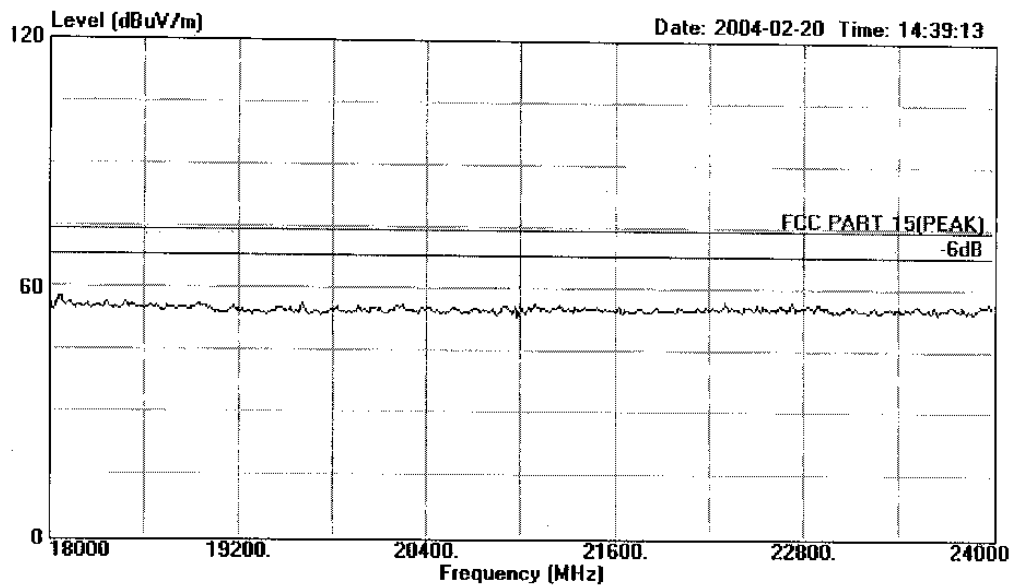


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Data#: 35 File#: C:\EMI TEST DATA\B\Berway.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : Wireless Controller for PS2
M/N : S619
Power : DC 8V (via PS2)
Test Engineer : Richzhy
Memo : Host CH79 Tx
Test comment : Temp:23°C Humi:54%