



## Appendix Report

Compliance with Industry Canada Interference-Causing  
Equipment Standard ICES-003

Product Name : Wireless HD Headphones /  
2.4GHz wireless transmitter  
Model No. : AWD210R / AWD210T

Applicant : TATUNG CO.

Address : 22, Chungshan N. Rd., 3rd Sec. Taipei, Taiwan, 104, R.O.C.

Date of Receipt : 2010/03/22

Issued Date : 2010/03/29

Report No. : 103336R-ITUSP02V02

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF, NVLAP, NIST or any agency of the Government.

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# Test Report Certification


Issued Date : 2010/03/29

Report No. : 103336R-ITUSP02V02



Product Name : Wireless HD Headphones / 2.4GHz wireless transmitter  
 Applicant : TATUNG CO.  
 Address : 22, Chungshan N. Rd., 3rd Sec. Taipei, Taiwan, 104, R.O.C.  
 Manufacturer : TATUNG CO.  
 Model No. : AWD210R / AWD210T  
 EUT Rated Voltage : AC 100-240V, 50/60Hz  
 EUT Test Voltage : AC 120 V / 60 Hz  
 Trade Name : Acoustic Research  
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart B: 2008, Class B  
                                   CISPR 22: 2008, ANSI C63.4: 2003  
                                   ICES-003 Issue 4: 2004  
 Test Result : Complied  
 Performed Location : Quietek Corporation (Linkou Laboratory)  
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## Laboratory Information

We , **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scopes:

<b>Taiwan R.O.C.</b>	<b>: BSMI, NCC, TAF</b>
<b>Germany</b>	<b>: TUV Rheinland</b>
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The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

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## 1. General Information

### 1.1. EUT Description

Product Name	Wireless HD Headphones / 2.4GHz wireless transmitter
Trade Name	Acoustic Research
Model No.	AWD210R / AWD210T

Component	
Audio Cable	Non-shielded, 0.8m
Power Adapter	MFR: KINGS, M/N: KSS05-050-1000U Input: AC 100-240V, 50-60Hz, 150mA Output: DC 5.0V, 1000mA Cable Out: Non-shielded, 1.8m

Note:

1. This appendix report was based on Quietek report No. 087327R-ITUSP02V02 & 089086R-ITUSP02V02.
2. The EUT is including two models for different marketing requirement.
3. The different is add chip.

**1.2. Mode of Operation**

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

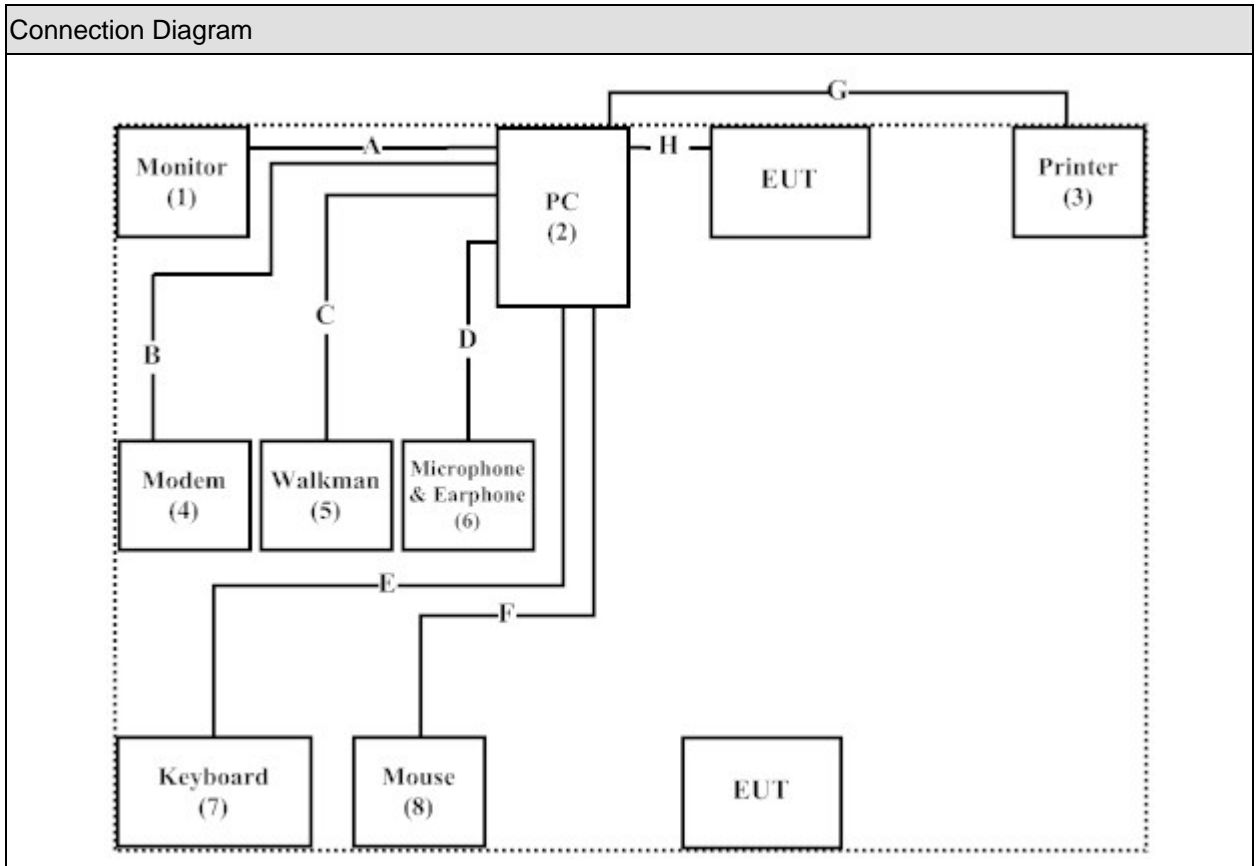
Pre-Test Mode	
Mode 1: Adapter Mode Mode 2: Battery Mode	
Final Test Mode	
Emission	Mode 1: Adapter Mode

### 1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord	
1	Monitor	Dell	2408WFPb	CN-0G293H-74261-95M-1H6S	Non-Shielded, 1.8m	
2	PC	CPU	INTEL	E2200	N/A	Non-Shielded, 1.8m
		M/B	ASUS	P5KPL-E		
		VGA Card	ASUS	EN8500GT/256M		
		HDD	WD	160G SATA2/3G (1600AAJS/8MB)		
		S.P.S	SevenTeam	350W/12CM/V2.0		
		DDR	Transcend	DDR2 2G-800		
3	Printer	EPSON	StyLus C63	FAPY093590	Non-Shielded, 1.8m	
4	Modem	ACEEX	DM-1414	0102027536	Non-Shielded, 1.8m	
5	Walkman	AIWA	HS-TA164	N/A	N/A	
6	Microphone	Yi Sheng	S-124	N/A	N/A	
7	Keyboard	HP	SK-2506	C0008335813	N/A	
8	Mouse	COMPAQ	M-S69	44H0	N/A	

1.4. Configuration of Tested System



Signal Cable Type		Signal cable Description
A	D-SUB Cable	Shielded, 1.8m, with two ferrite cores bonded.
B	RS-232 Cable	Shielded, 1.5m
C	Audio Cable	Non-Shielded, 1.6m
D	Microphone Cable	Non-Shielded, 1.6m
E	Keyboard Cable	Shielded, 1.8m
F	Mouse Cable	Shielded, 1.8m
G	Printer Cable	Shielded, 1.2m
H	Audio Cable	Non-Shielded, 0.8m



**1.5. EUT Exercise Software**

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	A mufti meter was used to verify the model operation before the measurement.

**2. Technical Test**

**2.1. Summary of Test Result**

- No deviations from the test standards
- Deviations from the test standards as below description:

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart B: 2008, Class B, ANSI C63.4: 2003	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2008, Class B, ANSI C63.4: 2003	Yes	No

## 2.2. List of Test Equipment

### Conducted Emission / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100366	2009/10/29
LISN	R&S	ENV4200	833209/007	2009/08/14
LISN	R&S	ENV216	100085	2010/02/17
Pulse Limiter	R&S	ESH3-Z2	357.88.10.52	2009/09/10

### Radiated Emission / Site4

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2793	2009/08/01
Broadband Horn Antenna	Schwarzbeck	BBHA9170	209	2009/07/25
EMI Test Receiver	R&S	ESCS 30	100369	2009/09/02
Horn Antenna	Schwarzbeck	BBHA9120D	305	2009/08/26
Pre-Amplifier	QTK	N/A	N/A	2009/08/01
Spectrum Analyzer	Advantest	R3162	100803480	2009/04/09

### **2.3. Measurement Uncertainty**

#### Conducted Emission

The measurement uncertainty is evaluated as  $\pm 2.26$  dB.

#### Radiated Emission

The measurement uncertainty is evaluated as  $\pm 3.19$  dB.

**2.4. Test Environment**

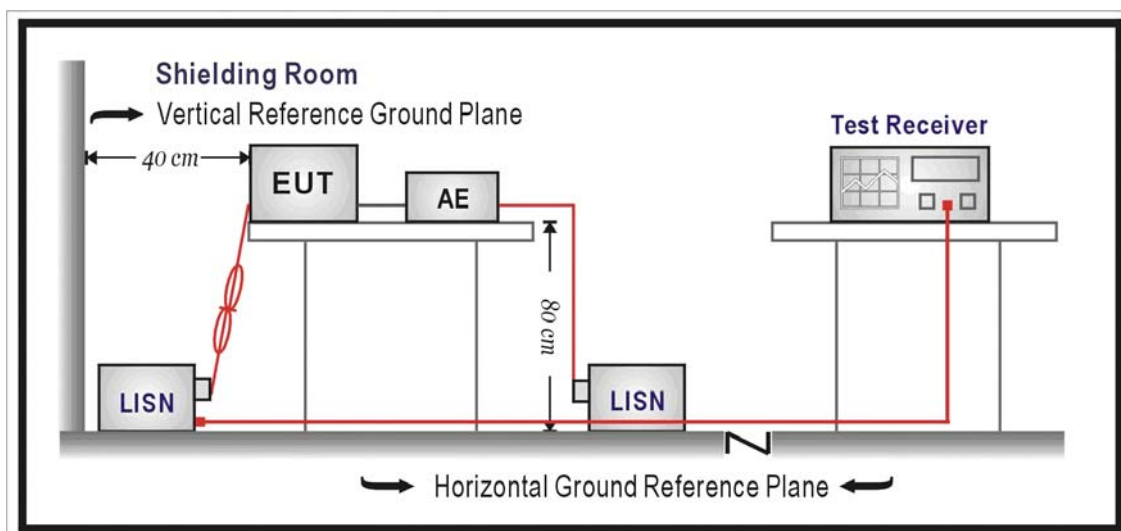
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000

### 3. Conducted Emission

#### 3.1. Test Specification

According to Standard : FCC Part 15 Subpart B, ANSI C63.4

#### 3.2. Test Setup



#### 3.3. Limit

Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

### 3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

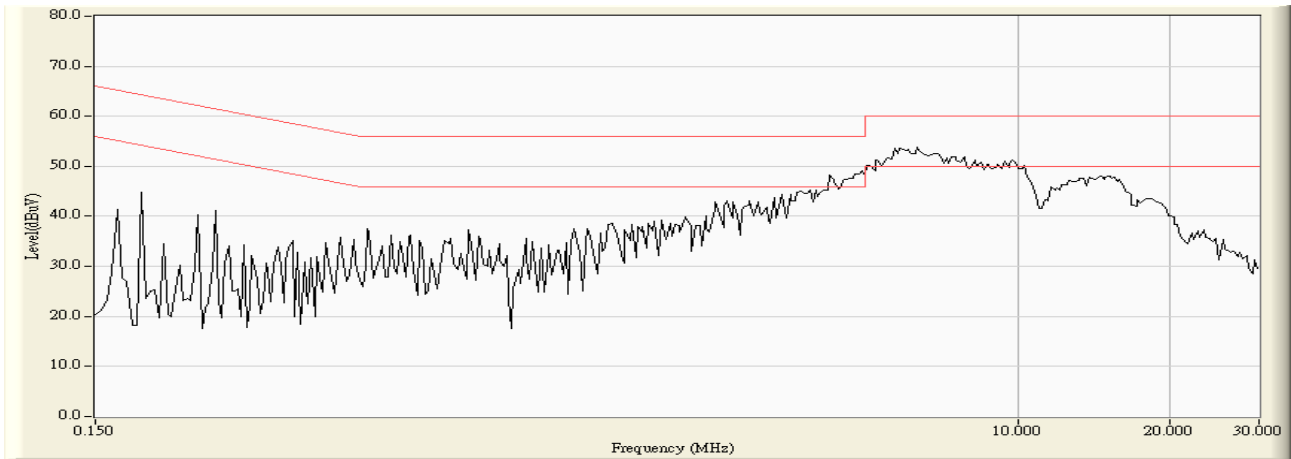
(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

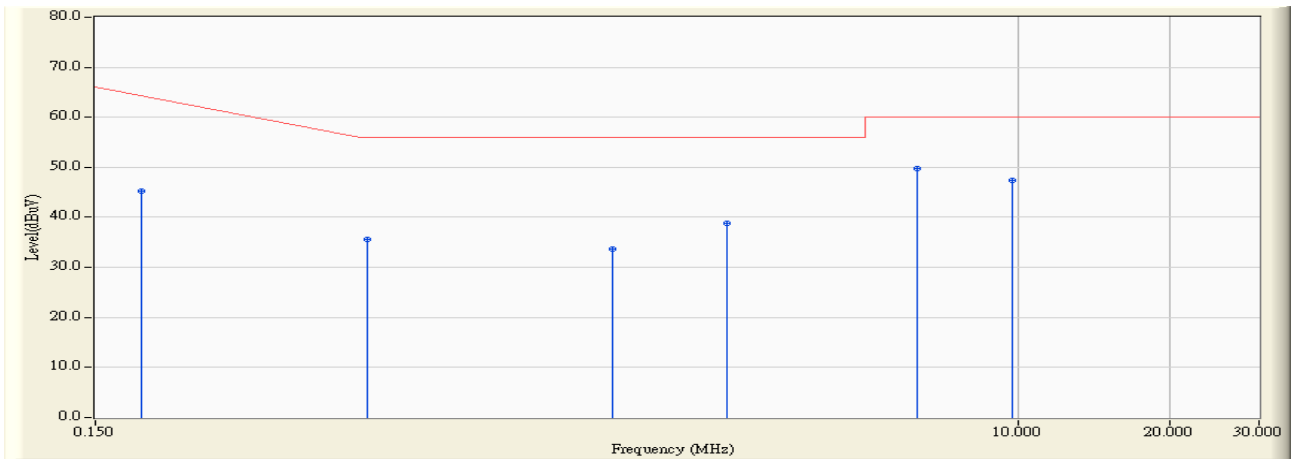
**3.5. Test Result**

<b>Site : SR1</b>	<b>Time : 2010/03/23 - 17:00</b>
<b>Limit : CISPR_B_00M_QP</b>	<b>Margin : 10</b>
<b>EUT : Wireless HD Headphones / 2.4GHz wireless transmitter</b>	<b>Probe : ENV_216_L1 - Line1</b>
<b>Power : AC 120V/60Hz</b>	<b>Note : Mode 1</b>





Site : SR1	Time : 2010/03/23 - 17:02
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Wireless HD Headphones / 2.4GHz wireless transmitter	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 1

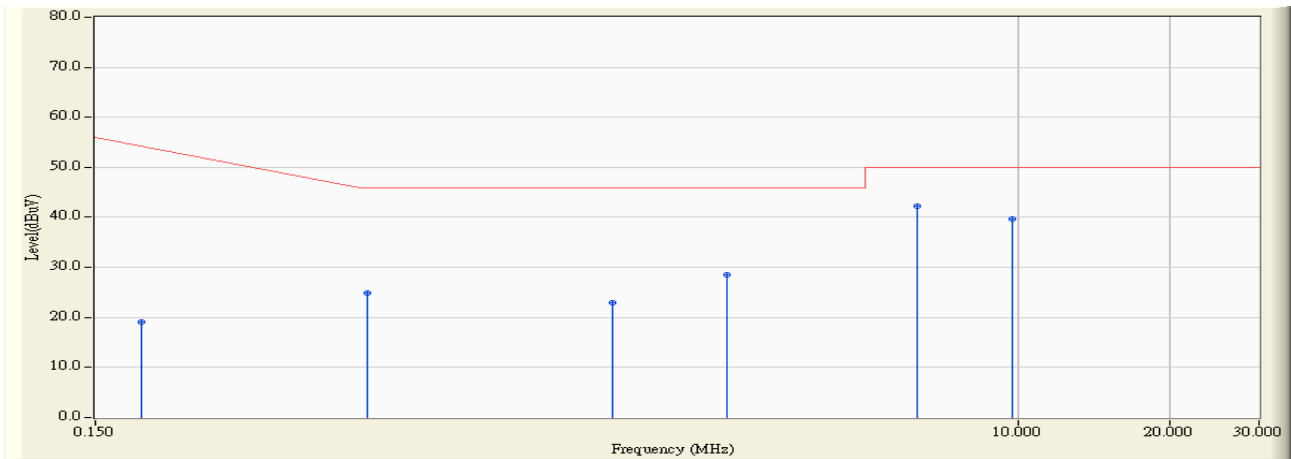


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.185	9.790	35.550	45.340	-19.660	65.000	QUASPEAK
2		0.517	9.790	25.750	35.540	-20.460	56.000	QUASPEAK
3		1.584	9.810	23.840	33.650	-22.350	56.000	QUASPEAK
4		2.662	9.810	29.030	38.840	-17.160	56.000	QUASPEAK
5	*	6.334	9.840	39.980	49.820	-10.180	60.000	QUASPEAK
6		9.732	9.880	37.610	47.490	-12.510	60.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2010/03/23 - 17:02
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Wireless HD Headphones / 2.4GHz wireless transmitter	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 1

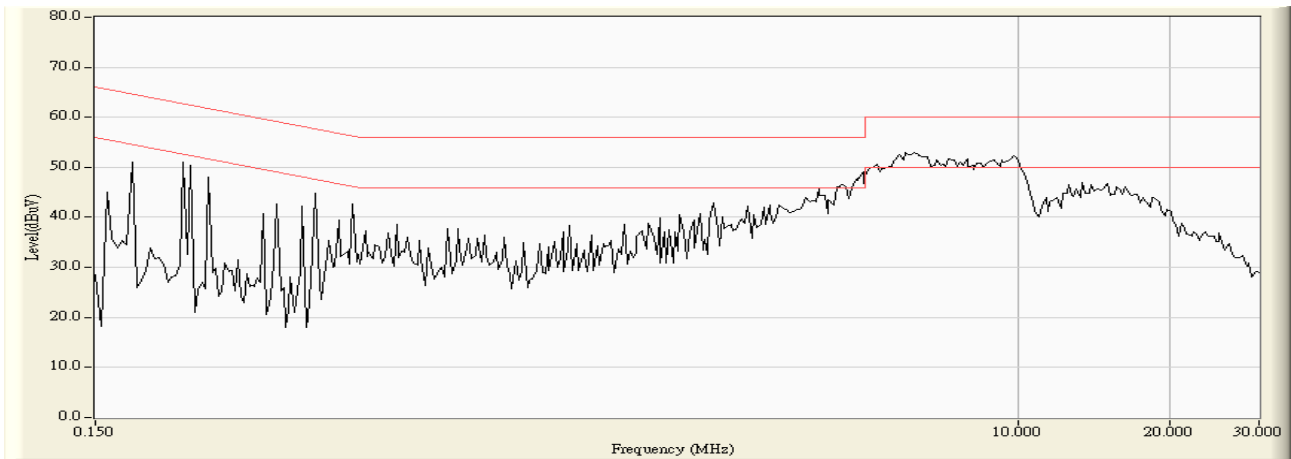


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.185	9.790	9.370	19.160	-35.840	55.000	AVERAGE
2		0.517	9.790	15.040	24.830	-21.170	46.000	AVERAGE
3		1.584	9.810	13.080	22.890	-23.110	46.000	AVERAGE
4		2.662	9.810	18.770	28.580	-17.420	46.000	AVERAGE
5	*	6.334	9.840	32.450	42.290	-7.710	50.000	AVERAGE
6		9.732	9.880	29.890	39.770	-10.230	50.000	AVERAGE

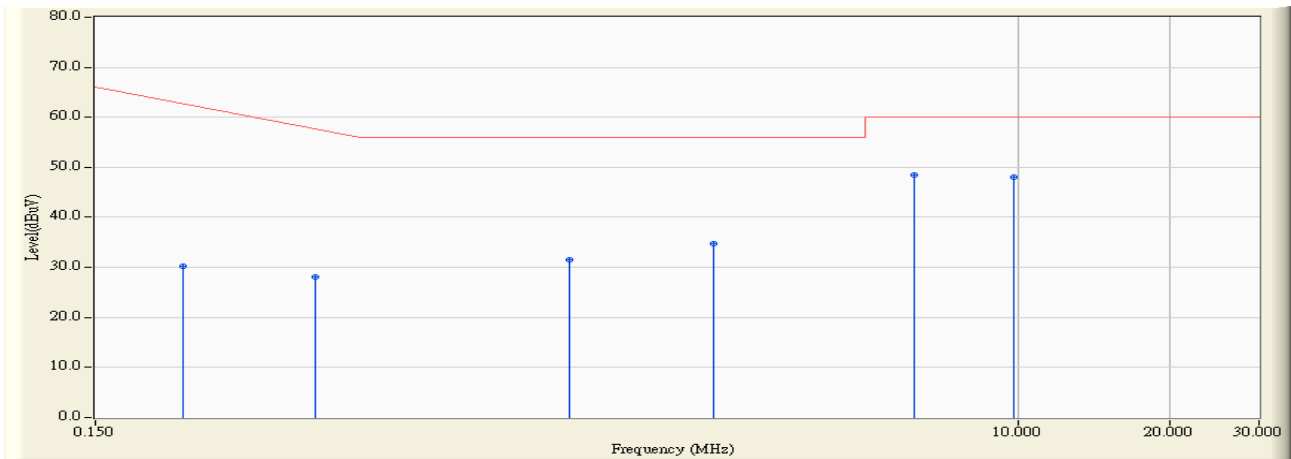
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2010/03/23 - 17:03
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Wireless HD Headphones / 2.4GHz wireless transmitter	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 1



Site : SR1	Time : 2010/03/23 - 17:04
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Wireless HD Headphones / 2.4GHz wireless transmitter	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 1

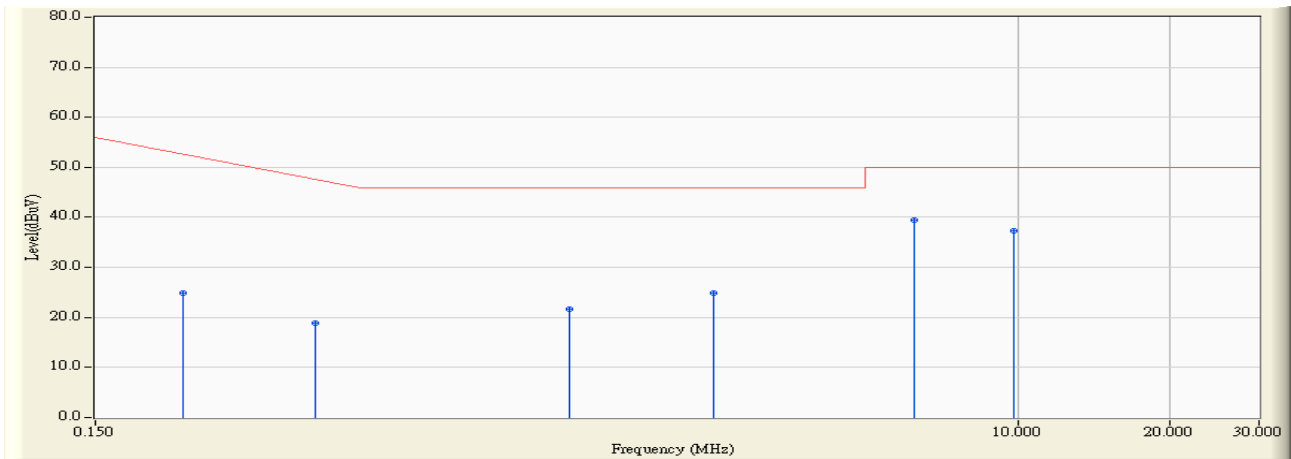


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.224	9.780	20.370	30.150	-33.736	63.886	QUASPEAK
2		0.408	9.790	18.250	28.040	-30.589	58.629	QUASPEAK
3		1.302	9.790	21.770	31.560	-24.440	56.000	QUASPEAK
4		2.509	9.803	24.870	34.673	-21.327	56.000	QUASPEAK
5	*	6.236	9.850	38.540	48.390	-11.610	60.000	QUASPEAK
6		9.853	9.900	38.240	48.140	-11.860	60.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2010/03/23 - 17:04
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Wireless HD Headphones / 2.4GHz wireless transmitter	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 1



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.224	9.780	15.070	24.850	-29.036	53.886	AVERAGE
2		0.408	9.790	9.130	18.920	-29.709	48.629	AVERAGE
3		1.302	9.790	11.920	21.710	-24.290	46.000	AVERAGE
4		2.509	9.803	15.130	24.933	-21.067	46.000	AVERAGE
5	*	6.236	9.850	29.540	39.390	-10.610	50.000	AVERAGE
6		9.853	9.900	27.440	37.340	-12.660	50.000	AVERAGE

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3.6. Test Photograph

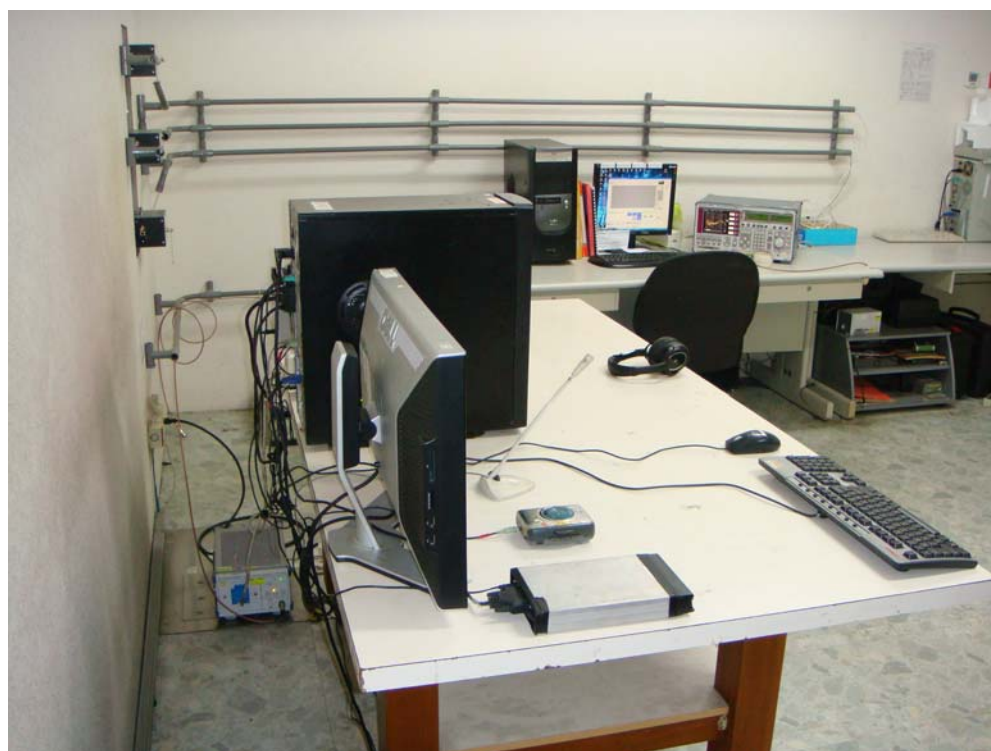
Test Mode : Mode 1: Adapter Mode

Description : Front View of Conducted Test



Test Mode : Mode 1: Adapter Mode

Description : Back View of Conducted Test



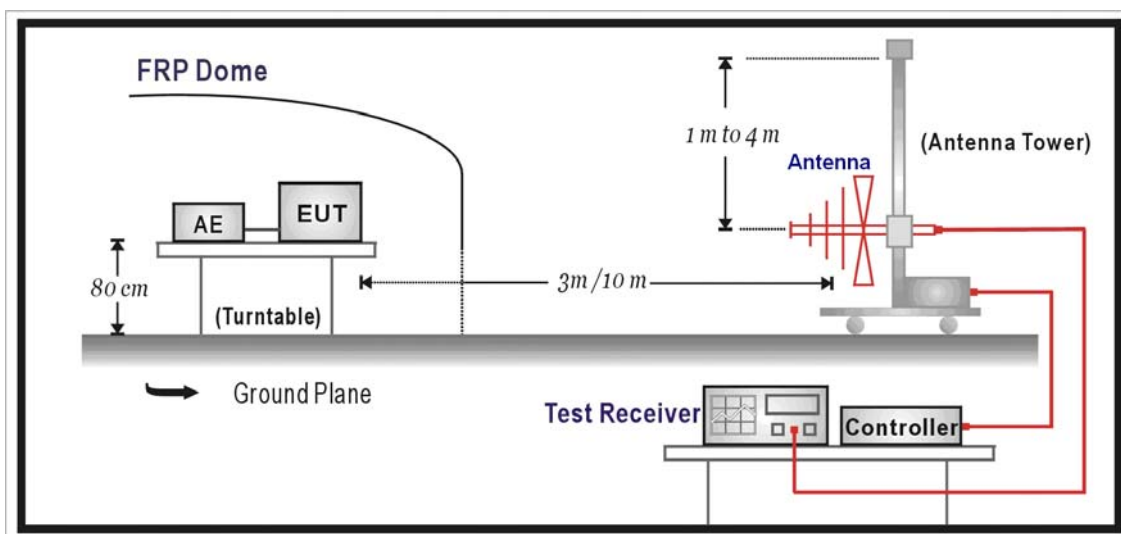
## 4. Radiated Emission

### 4.1. Test Specification

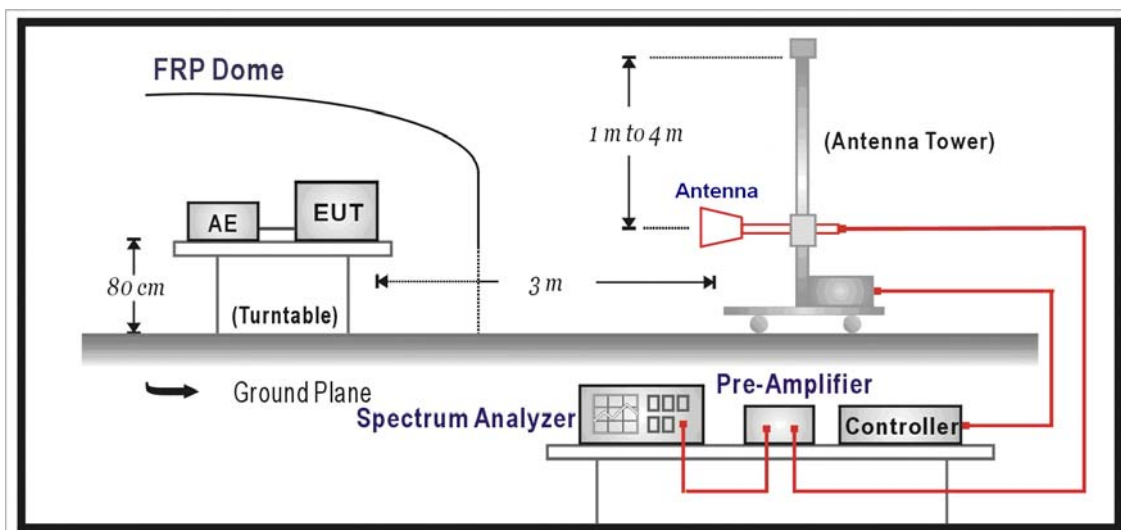
According to EMC Standard : FCC Part 15 Subpart B, ANSI C63.4

### 4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



**4.3. Limit**

Under 1GHz test shall not exceed the following value:

Limits		
Frequency (MHz)	Distance (m)	dBuV/m
30 – 230	10	30
230 – 1000	10	37

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Above 1GHz test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance (m)	dBuV/m
30-88	3	40
88-216	3	43.5
216-960	3	46
Above 960	3	54

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)



**4.4. Test Procedure**

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

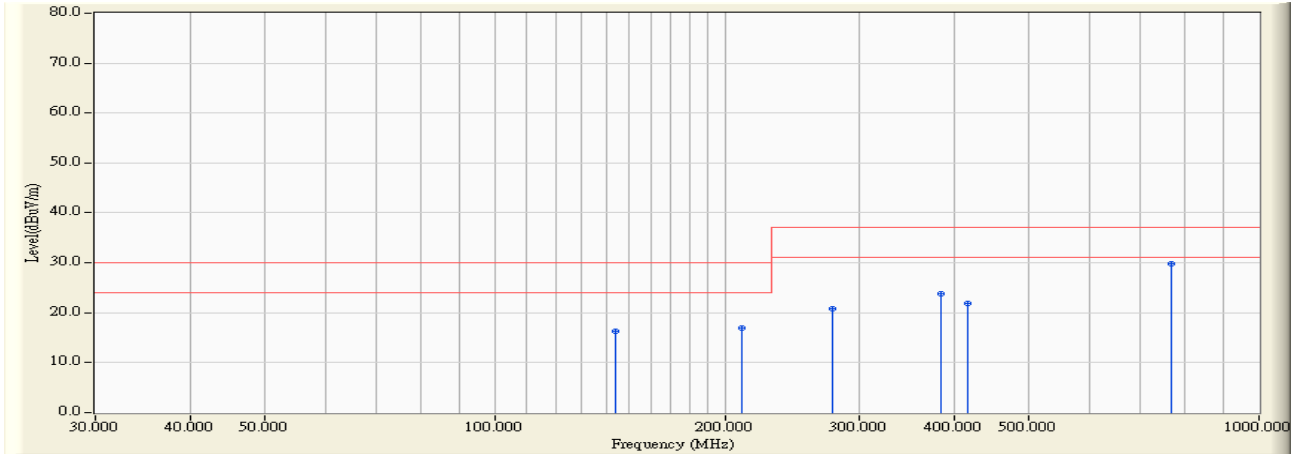
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz and above 1GHz is 1MHz.

4.5. Test Result

Site : OAST4	Time : 2010/03/19 - 10:25
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Wireless HD Headphones / 2.4GHz wireless transmitter	Probe : Site4_CBL6112_10M_0811 - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1

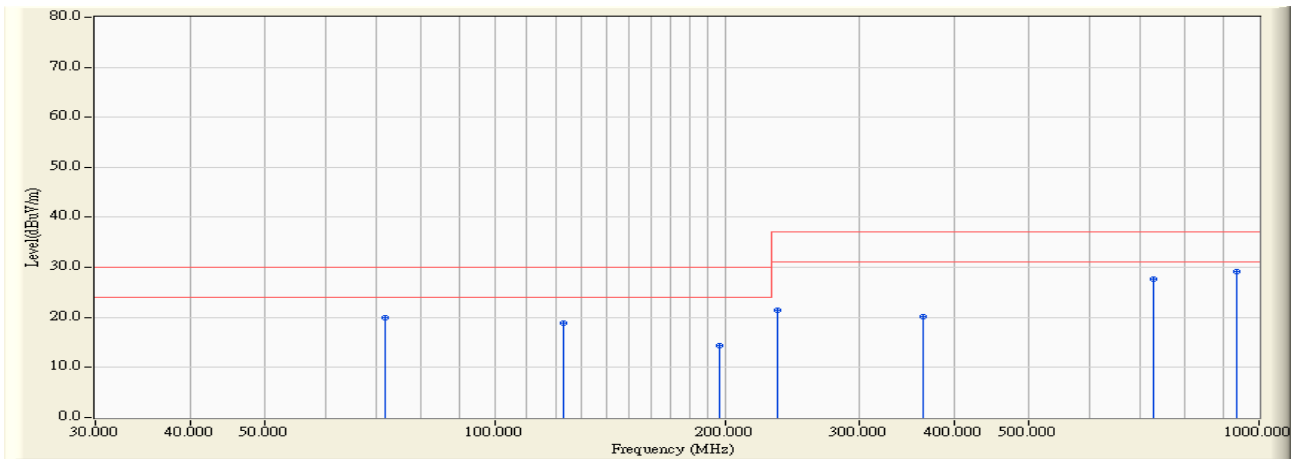


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	144.000	14.134	2.200	16.334	-13.666	30.000	QUASIPeAK	388.000	73.000
2	210.000	13.230	3.800	17.030	-12.970	30.000	QUASIPeAK	362.000	64.000
3	276.913	16.836	3.900	20.736	-16.264	37.000	QUASIPeAK	297.000	10.000
4	384.000	19.808	4.000	23.808	-13.192	37.000	QUASIPeAK	249.000	-200.000
5	416.000	20.538	1.300	21.839	-15.161	37.000	QUASIPeAK	176.000	-142.000
6	* 767.250	25.991	3.800	29.791	-7.209	37.000	QUASIPeAK	107.000	106.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OAST4	Time : 2010/03/19 - 10:14
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Wireless HD Headphones / 2.4GHz wireless transmitter	Probe : Site4_CBL6112_10M_0811 - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	72.000	9.127	10.900	20.027	-9.973	30.000	QUASPEAK	100.000	171.000
2	122.886	15.060	3.800	18.860	-11.140	30.000	QUASPEAK	106.000	-96.000
3	196.616	12.498	1.800	14.298	-15.702	30.000	QUASPEAK	103.000	-83.000
4	234.377	14.986	6.400	21.386	-15.614	37.000	QUASPEAK	110.000	135.000
5	363.856	19.236	0.900	20.135	-16.865	37.000	QUASPEAK	100.000	-114.000
6	727.250	25.510	2.200	27.710	-9.290	37.000	QUASPEAK	214.000	142.000
7	* 936.000	28.470	0.700	29.170	-7.830	37.000	QUASPEAK	164.000	188.000

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site: OAST4	Time: 2010/03/26 - 10:25
Limit: FCC_B_(Above_1G)	Margin: 6
EUT: Wireless HD Headphones / 2.4GHz wireless transmitter	Probe: 9120D_1-18G_Horn - Horizontal
Power : AC 120V/60Hz	Note : Mode 1



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		1655.000000	44.624000	48.939000	-29.376000	74.000000	-4.315	PK
2	*	1805.000000	46.175000	50.274000	-27.825000	74.000000	-4.099	PK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor.

Site: OAST4	Time: 2010/03/26 - 10:30
Limit: FCC_B_(Above_1G)	Margin: 6
EUT: Wireless HD Headphones / 2.4GHz wireless transmitter	Probe: 9120D_1-18G_Horn - Vertical
Power : AC 120V/60Hz	Note : Mode 1



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	*	1805.000000	53.448000	57.547000	-20.552000	74.000000	-4.099	PK
2		3010.000000	49.303000	49.125000	-24.697000	74.000000	0.178	PK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor.

## 4.6. Test Photograph

Test Mode : Mode 1: Adapter Mode

Description : Front View of Radiated Test



Test Mode : Mode 1: Adapter Mode

Description : Back View of Radiated Test



Test Mode : Mode 1: Adapter Mode

Description : Front View of High Frequency Radiated Test





5. Attachment

➤ EUT Photograph

(1) EUT Photo



(2) EUT Photo





(3) EUT Photo



(4) EUT Photo



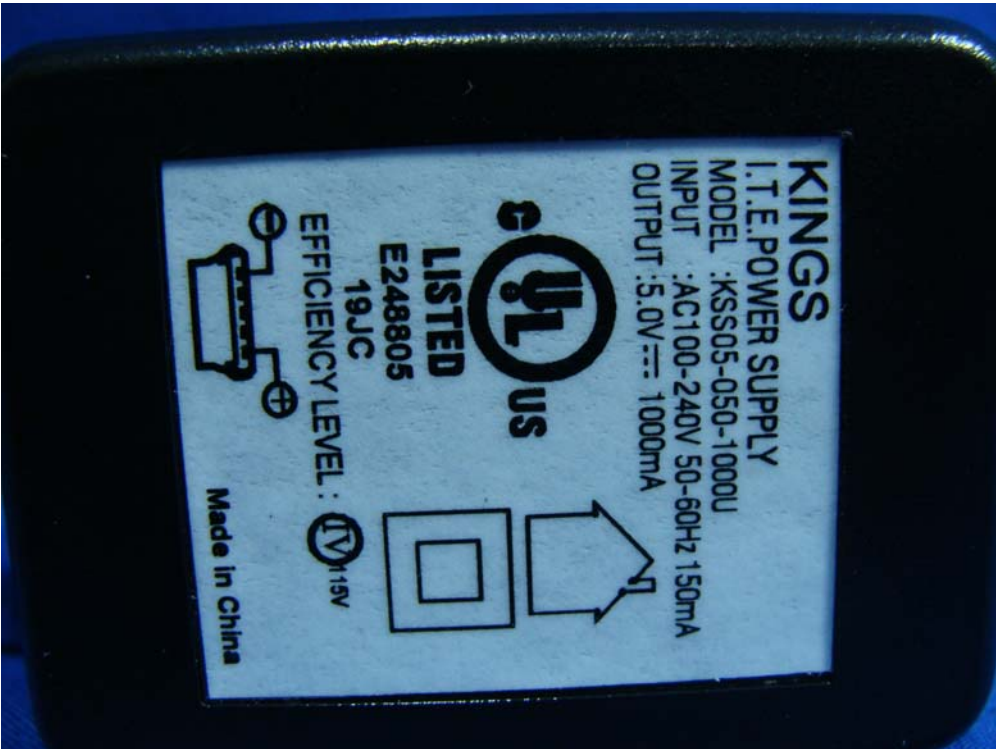
(5) EUT Photo



(6) EUT Photo



(7) EUT Photo



(8) EUT Photo

