



EMC TEST REPORT

For

SHENZHEN LISAIER TRONICS CO., LTD.

Headphone & Earphone

Model No.: HP-2850

Prepared for : **SHENZHEN LISAIER TRONICS CO., LTD.**
Address : **NO.22, XIHU INDUSTRIAL PARK, XIKENG, HENGANG TOWN,
LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA**
Prepared by : **Shenzhen BEL Technology Co., Ltd.**
Address : **415# ChuangYe Building, No.7 ChuangYe 2 Road, 24 District
Bao ' an , Shenzhen Guangdong China**

Report Number : **BEL201000008478**

Date of Test : **May. 25-May. 31 , 2010**

Date of Report : **May. 31 , 2010**



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TEST REPORT DECLARATION

Applicant : SHENZHEN LISAIER TRONICS CO., LTD.

Manufacturer : SHENZHEN LISAIER TRONICS CO., LTD.

EUT Description: HEADPHONE & EARPHONE

MODEL No. : **HP-2850**

Test Procedure Used:

EMC : EN55013:2001+A1:2003+A2:2006

EN 61000-3-2 (2006);

EN 61000-3-3 (1995) + A1 (2001)+A2(2005)

EN55020:2007

The device described above is tested by Shenzhen BEL Technology Co., Ltd.. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and EUT is performance criterion. The test results are contained in this test report. Shenzhen BEL Technology Co., Ltd.. is assumed of full responsibility for the accuracy and completeness of these teBEL. Also, this report shows that the EUT is technically compliant with the EN55013, EN61000-3-2, EN61000-3-3 and EN55020.

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

Date of Test:

May. 25-May. 31 , 2010

Prepared by(Engineer) :

Allen

Reviewer(Quality Manager) :

Randy



Approved&Authorized Signer(Manager) :

Davis



1.GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : **HEADPHONE & EARPHONE**
Model Number : **HP-2850**

Power Supply : N/A

Applicant : SHENZHEN LISAIER TRONICS CO., LTD.

Address : NO.22, XIHU INDUSTRIAL PARK, XIKENG, HENGGANG TOWN,
LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA

Manufacturer : SHENZHEN LISAIER TRONICS CO., LTD.

Address : NO.22, XIHU INDUSTRIAL PARK, XIKENG, HENGGANG TOWN,
LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA

Date of receiver : May.31 , 2010

Date of Test : May. 25-May.31 , 2010

1.2 Test Facility

Site Description

Chamber : Certificated by FCC
&Shielded room Registration Number: 248337
December 07, 2006

Certificated by VCCI
Registration Number: R-2482
February 9, 2004

Certificated by TUV Rheinland
Registration Number: N/A
January 16, 2007

Certificated by IC
Registration Number: 117715
November 07, 2006

Certificated by Intertek
Registration Number: TMPSHA031
November 10, 2006

Name of Firm : Shenzhen BEL Technology Co., Ltd

Site Location : 415# ChuangYe Building, No.7 ChuangYe 2 Road, 24 District
Bao ' an ,Shenzhen Guangdong China



1.3 Test Uncertainty

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

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

1.4 The EUT were investigated with one operation mode as below:

(1) Working Mode

(2) The worst test mode of EMC test is Working Mode

And the final test data were shown on this test report.

2. TEST INSTRUMENT USED

2.1 For Conducted Emission Test

Conducted Emission Test (A --- site)					
Equipment	Manufacturer	MODEL#	SERIAL#	LASTCAL.	NEXT CAL.
EMI Receiver	Schwarzbeck	PCKL1528	1528-194	Jul 05,2009	Jul 05, 2010
LISN	Kyoritsu	KNW407	8-1789-4	Feb 26,2010	Feb 26, 2011
Spectrum Analyzer	ADVANTENT	R3132	160400093	Feb 17,2010	Feb 17, 2011
50Ω coaxial switch	Anritsu	MP59B	6200264417	Feb 15,2010	Feb 15,2011
Pulse Limiter	R&S	ESH3-Z2	100681	Jul 07,2009	Jul 07,2010

2.2 For Radiated Emission Test

Radiation Emission Test (966 chamber)					
Equipment	Manufacturer	MODEL#	SERIAL#	LASTCAL.	NEXT CAL.
Spectrum Analyzer	ADVANTENT	R3132	160400005	Feb 12, 2010	Feb 12, 2011
Headphone & Earphone	Tsj	MLA-10K-B01-27	1205323	Feb 12, 2010	Feb 12, 2011
Antenna	Schwarzbeck	VULB9160	9160-3206	Jul 05, 2009	Jul 05, 2010
EMI Receiver	Schaffner	SCR3501	235	Jul 20,2009	Jul 20,2010
Regulated Power supply	Schaffner	NT41	16216	Jul 20,2009	Jul 20,2010
50Ω coaxial switch	Anritsu	MP59B	6200264416	Feb 15,2010	Feb 15,2011

2.3 For Harmonic & Flicker Test

For Harmonic / Flicker Test (A --- site)



Equipment	Manufacturer	MODEL#	SERIAL#	LASTCAL.	NEXT CAL.
Harmonic / Flicker Tester	Schaffner	CCN 1000-1	72472	Jul 23, 2009	Jul 23, 2010
Power source	Schaffner	NSG 1007-5-208-413	57227	Jul 23, 2009	Jul 23, 2010

2.4 For Electrostatic Discharge Immunity Test

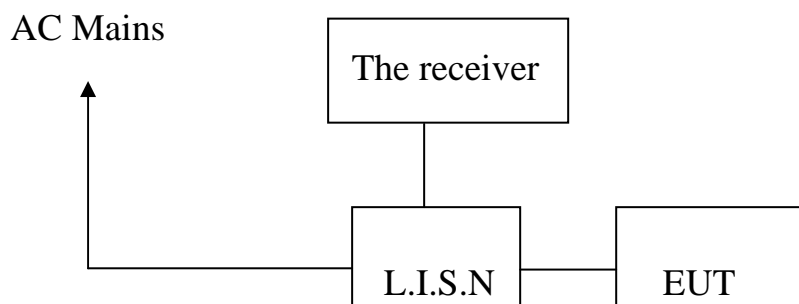
For Electrostatic Discharge Immunity Test (A --- site)					
Equipment	Manufacturer	MODEL#	SERIAL#	LASTCAL.	NEXT CAL.
ESD Simulator	SCHAFFNER	NSG 435	5866	Feb 08, 2010	Feb 08, 2011

2.5 For RF Field Strength Susceptibility Test

For RF Field Strength Susceptibility Test (A --- site)					
Equipment	Manufacturer	MODEL#	SERIAL#	LASTCAL.	NEXT CAL.
Signal Generator	HP	8648A	3625U00573	May 29, 2010	May 29, 2011
Headphone & Earphone	A&R	500A100	17034	NCR	NCR
Headphone & Earphone	A&R	100W/1000M1	17028	NCR	NCR
Audio Analyzer (20Hz~1000KHz)	Panasonic	2023B	202301/428	May 29, 2010	May 29, 2011
Isotropic Field Probe	A&R	FP2000	16755	May 29, 2010	May 29, 2011
Antenna	EMCO	3108	9507-2534	NCR	NCR
Log-periodic Antenna	A&R	AT1080	16812	NCR	NCR

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Block Diagram of Test Setup



3.2. Test Standard

EN55013:2006

3.3. Power Line Conducted Emission Limit

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

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

3.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet EN55013 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1 Headphone & Earphone(EUT)

Model Number : HP-2850

Serial Number : N/A



3.5. Operating Condition of EUT

3.5.1 Setup the EUT and simulators as shown in Section 3.1.

3.5.2 Turn on the power of all equipments.

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

3.6. Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the EN55013 regulations during conducted emission test.

The bandwidth of the test receiver (Schwarzbeck Test Receiver PCKL1528) is set at 10KHz.

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

The test data and the scanning waveform are listed in Section 3.7 .

3.7. Power Line Conducted Emission Test Results

PASSED.

The frequency range 150KHz to 30MHz is investigated.

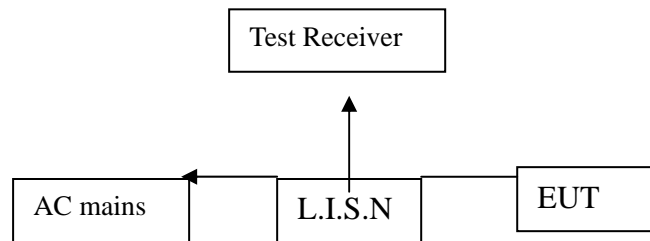
EUT:	HEADPHONE & EARPHONE	Temperature:	24
M/N:	HP-2850	Humidity:	50%
Test Mode:	Working Mode	Test Engineer:	Allen

Radiated emission test

4. CONDUCTION TEST

4.1 Block Diagram of Test Setup

4.1.1 Block Diagram of EUT Test Setup



4.2 Test Standard

EN55013:2006

4.3 EUT Configuration on Test

The EN55013 regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test. Please refer to Section 3.4.

4.4 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 3.5 except the test set up replaced as Section 4.1.

4.5 Test Procedure

The EUT is placed on the ground and away from other metallic surface at least 0.4m. It is connected to the power mains through an extension cord of 6m min. The absorber clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the test receiver (R&S ESVS30) is set at 120kHz

All the test results are listed in Section 4.6.



4.6 Disturbance Power Test Result

PASSED.

The frequency spectrum from 30 MHz to 300MHz is investigated.

EUT:	HEADPHONE & EARPHONE	Temperature:	24
M/N:	HP-2850	Humidity:	50%
Test Mode:	Working Mode	Test Engineer:	Allen

5.HARMONIC CURRENT EMISSION TEST

5.1 Block Diagram of Test Setup



(EUT:Headphone & Earphone)

5.2 Harmonics Test Standard

EN 61000-3-2:2006

5.3 EUT Configuration on Test

The following equipments are installed on Harmonics test to meet EN61000-3-2 : 2006, requirement and operating in a manner which tends to maximize its emission characteristics in a normal application

The configuration of EUT is the same as used in conducted emission test.
Please refer to Section 3.4.

5.4 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 3.5 except the test set up replaced as Section 5.1.

5.5 Block Diagram of Test Setup

PASSED.

6 . VOLTAGE FLUCTUATIONS & FLICKER TEST

6.1.Block Diagram of EUT Test Setup



(EUT:Headphone & Earphone)

6.2.Voltage Fluctuations & Flicker Test Standard

EN 61000-3-3:1995 + A1: 2001+A2:2005

6.3.EUT Configuration on Test

The following equipments are installed on Voltage Fluctuations & Flicker test to meet EN 61000-3-3:1995 + A1: 2001+A2:2005, requirement and operating in a manner which tends to maximize its emission characteristics in a normal application

The configuration of EUT is the same as used in conducted emission test.
Please refer to Section 3.4.

6.4.Operating Condition of EUT

Same as conducted emission test, which is listed in Section 3.5 except the test set up replaced as Section 6.1.

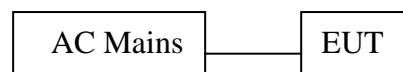
6.5.Test Results

PASSED.

7. ELECTROSTATIC DISCHARGE IMMUNITY TEST

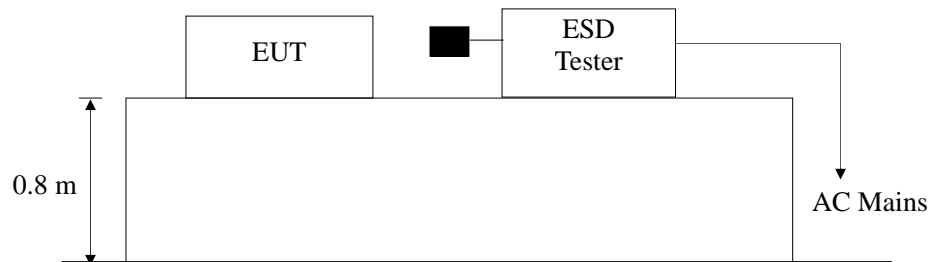
7.1 Block Diagram of Test Setup

7.1.1. Block Diagram of the EUT and the simulators



(EUT: Headphone & Earphone)

7.1.2. Test Setup



7.2 Test Standard

EN55020: 1997+A1: 2001+A2: 2007, (IEC 61000-4-2: 2001)

Severity Level: 3 / Air Discharge: ± 8 KV

Level: 2 / Contact Discharge: ± 4 KV

7.3 Severity Levels and Performance Criterion

7.3.1 Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	± 2	± 2
2.	± 4	± 4
3.	± 6	± 8

4.	± 8	± 15
X	Special	Special

7.3.2 Performance criterion : B

The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.

Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

7.4 EUT Configuration

The following equipments are installed on Electrostatic Discharge Immunity test to meet EN55020: 1997+A1: 2001+A2: 2003, (IEC 61000-4-2: 2001), requirement and operating in a manner which tends to maximize its emission characteristics in a normal application

The configuration of EUT is the same as used in conducted emission test.
Please refer to Section 3.4.

7.5 Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 3.5 except the test set up replaced by Section 7.1.

7.6 Test Procedure

7.6.1 Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

7.6.2 Contact Discharge:

All the procedure shall be same as Section 7.6.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

7.6.3 Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of



each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

7.6.4 Indirect discharge for vertical coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

7.7 Test Results

PASSED.

Please refer to the following pages.



Electrostatic Discharge Test Results

Shenzhen BEL Technology Co., Ltd.

Applicant	:	SHENZHEN LISAIER TRONICS CO., LTD.	Test Date	:	May. 27, 2010
EUT	:	HEADPHONE & EARPHONE	Temperature:		24
M/N	:	HP-2850	Humidity	:	49%
Power Supply	:	N/A			
Test Engineer	:	Allen			
Air Discharge: ± 8KV					
Contact Discharge: ± 4KV # For each point positive 25 times and negative 25 times discharge					
Test Points		Air Discharge	Contact Discharge	Performance Criterion	Result
Others Slot of the EUT		± 2,4,8KV	N/A	A	PASSED
Panel		± 2,4,8KV	N/A	A	PASSED
Screw		± 2,4,8KV	N/A	A	PASSED
Case		± 2,4,8KV	± 2,4 KV	A	PASSED
VCP		N/A	± 2,4 KV	A	PASSED
HCP		N/A	± 2,4 KV	A	PASSED
Note:N/A					

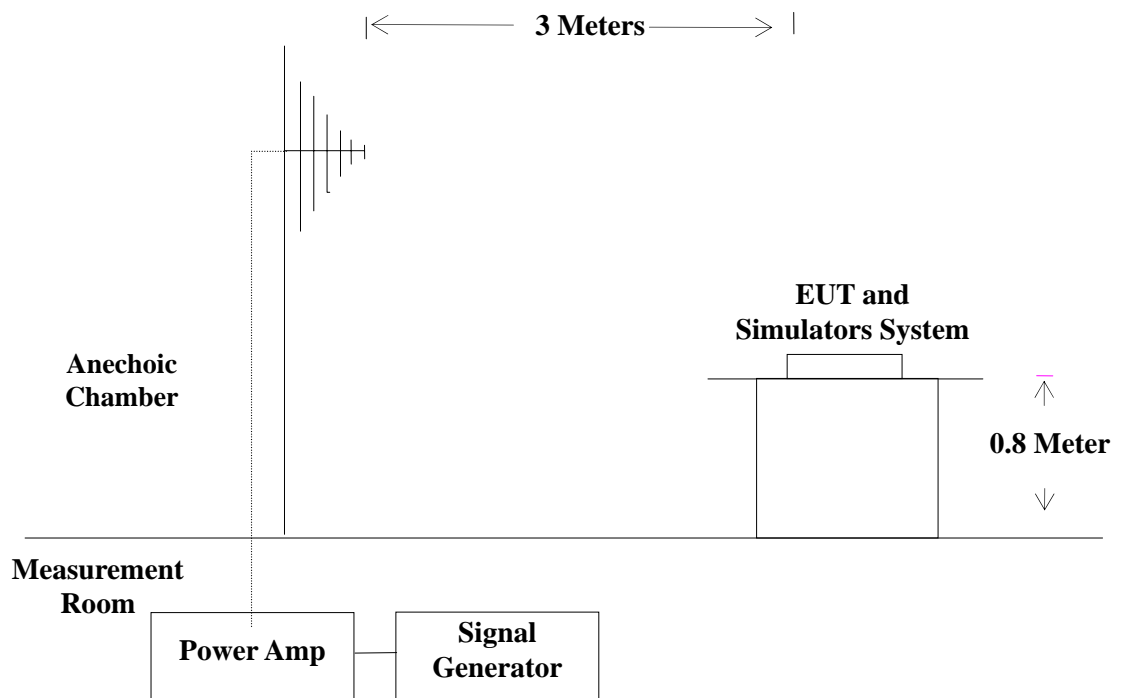
8.RF EM FIELD (KEY CARRIER) TEST

8.1 Block Diagram of Test Setup

8.1.1. Block Diagram of the EUT and the simulators



8.1.2. R/S Test Setup



8.2 Test Standard

EN55013:2001+A1:2003+A2:2006 (IEC 61000-4-3/A1:1998,A2:2002),
Severity Level2, 3V / m

8.3 Severity Levels and Performance Criterion

8.3.1. Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X.	Special

8.3.2. Performance criterion: A

The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.

- A、 Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

8.4 Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 3.5 except the test set up replaced by Section 8.1.

8.5 Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

All the scanning conditions are as follows :

	Condition of Test	Remarks
	-----	-----
Fielded Strength	3 V/m (Severity Level 2)	
Radiated Signal	Modulated	
Scanning Frequency	80 – 1000 MHz	
Dwell time of radiated	0.0015 decade/s	
Waiting Time	1 Sec.	

8.6 Test Results

PASSED.

Please refer to the following page.



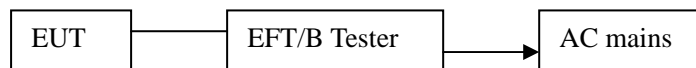
RF EM Field (Key Carrier) Test Results

Shenzhen BEL Technology Co., Ltd.

Applicant: SHENZHEN LISAIER TRONICS CO., LTD.		Test Date : May. 27, 2010	
EUT : Headphone & Earphone		Temperature : 24	
M/N : HP-2850		Humidity : 50%	
Field Strength: 3 V/m		Criterion: A	
Power Supply: N/A		Frequency Range: 80 MHz to 1000 MHz	
Test Engineer: Allen			
Modulation: <input checked="" type="checkbox"/> AM <input type="checkbox"/> Pulse <input type="checkbox"/> none 1 KHz 80%			
Test Mode : working mode			
	Frequency Range : 80-1000MHz		
Steps	1 %		
	Horizontal	Vertical	Result
Front	A	A	Passed
Right	A	A	Passed
Rear	A	A	Passed
Left	A	A	Passed
Note:N/A			

9. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

9.1 Block Diagram of EUT Test Setup



9.2 Test Standard

EN55020: 1997+A1: 2007 (IEC 61000-4-4: 2004)

9.3 Severity Levels and Performance Criterion

Severity Level 2 at 1KV, Pulse Rise time & Duration: 5 nS / 50 nS
Severity Level:

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O(Input/Output) Signal data and control lines
1.	0.5KV	0.25KV
2.	1KV	0.5KV
3.	2KV	1KV
4.	4KV	2KV
X.	Special	Special

Performance criterion: B

A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however



allowed.

C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

9.4 EUT Configuration on Test

The configuration of EUT is the same as used in conducted emission test.
Please refer to Section 3.4.

9.5 Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 3.5 except the test set up replaced by Section 9.1.

9.6 Test Procedure

EUT shall be placed 0.8m high above the ground reference plane which is a min.1m*1m metallic sheet with 0.65mm minimum thickness. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m

9.6.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 minutes.

9.6.2. For signal lines and control lines ports:

It's unnecessary to measure.

9.6.3. For DC input and DC output power ports:

For DC ports .It's unnecessary to measure

9.7 Test Results

N/A.

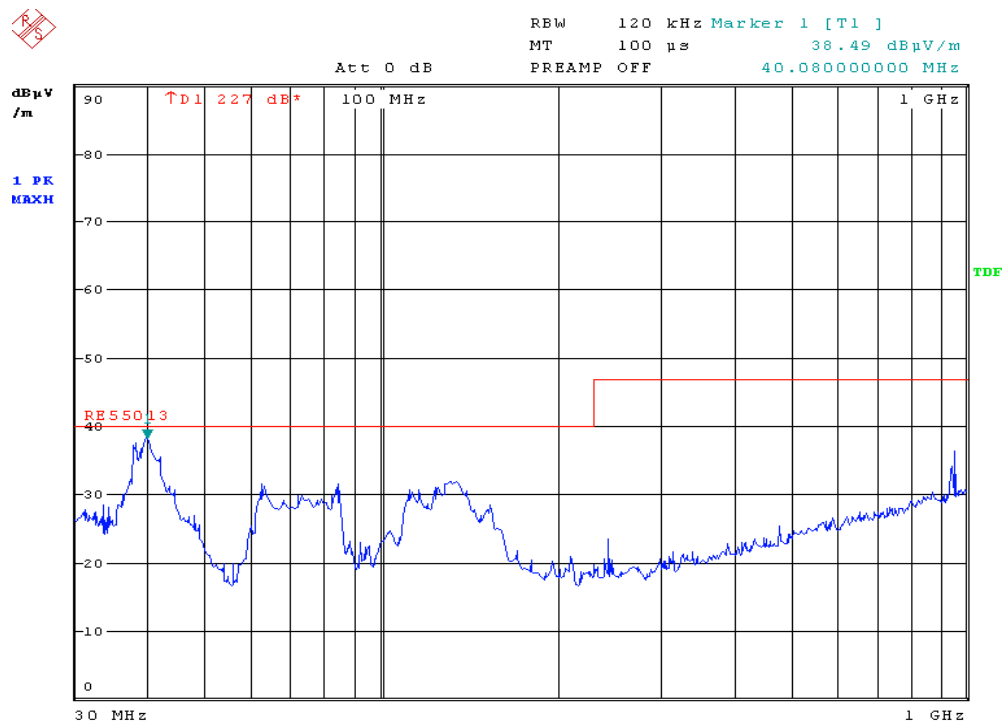
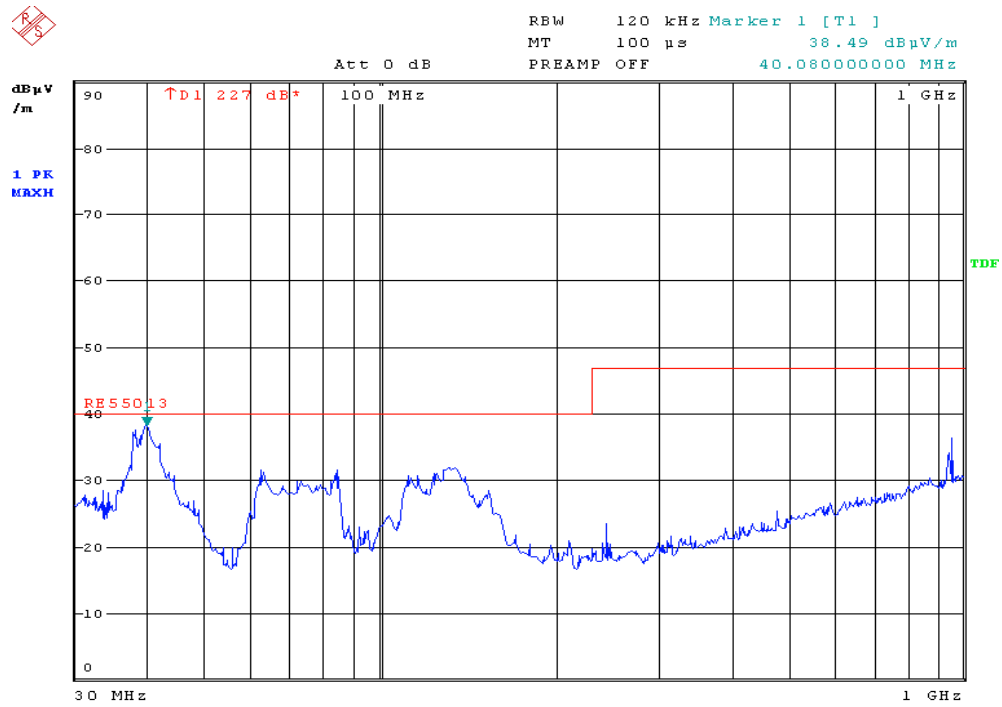
Please refer to the following pages

EUT:	HEADPHONE & EARPHONE	Temperature:	24
M/N:	HP-2850	Humidity:	52%
Test Mode:	Working Mode	Test Engineer:	Allen

TEST VOLTAGE	L	N	L+N
± 0.5KV	B	B	B
± 1KV	B	B	B



10.APPENDIX I Test Curves



11.APPENDIX II EUT PHOTO



12.EUT TEST PHOTO





APPENDIX I MODEL NAME DESCRIPTION

Adding model:

HP2840V	HP2050	HP2060	HP-2070	HP-2080	HP-2390V
HP-2391V	HP-2392V	HP-2393V	HP-2394V	HP-2395V	HP-2396V
HP-2397V	HP-2398V	HP-2399V	HP-2370V	HP-2371	HP-2372V
HP-2373V	HP-2374V	HP-2375V	HP-2376V	HP-2377V	HP-2378V
HP-2379V	HP-2133V	HP-2134V	HP-2144V	HP-2155V	HP-2166V
HP-2177V	HP-2188V	HP-2199V	HP-2000V	HP-2020V	HP-2158
HP-2360V	HP-3200V	HP-2500V	HP-2600V	HP-2700V	HP-2800V
HP-2900V	HP-2889V	HP-2750V	HP-2338V	HP-2829V	HP-2819V
HP-8601V	HP-8602V	HP-8603V	HP-8604V	HP-8605V	HP-8606V
HP-8607V	HP-8608V	HP-8609V	HP-2133MV	HP-2134MV	HP-2144MV
HP-2020MV	HP-2371MV	HP-2415M	HP-2413M	HP-2188MV	HP-2199MV
HP-2829MV	HP-2750MV	HP-2630MV	HP-2640MV	HP-2650MV	HP-2660MV
HP-2670MV	HP-2680MV	HP-2690MV	HP-2751	HP-2752	HP-2753
HP-2754	HP-2755	HP-2756	HP-2757	HP-2758	HP-2759
HP-2761	HP-2762	HP-2763	HP-2764	HP-2765	HP-2766
HP-2767	HP-2768	HP-2769	HP-2771	HP-2772	HP-2773
HP-2774	HP-2775	HP-2776	HP-2777	HP-2778	HP-2779
HP-2780	HP-2781	HP-2782	HP-2783	HP-2784	HP-2785
HP-2786	HP-2787	HP-2788	HP-2789		

END OF REPORT