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## FCC TEST REPORT

### 47 CFR FCC Part 15 Subpart B

Report Reference No.....: TRE1212010003 R/C:23996

FCC ID.....: X5QRD77723

Compiled by

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Approved by

( position+printed name+signature) ..: Manager Wenliang Li

Wenliang Li

Date of issue.....: Jan 07, 2013

Testing Laboratory Name .....

Shenzhen Huatongwei International Inspection Co., Ltd

Address .....

Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Applicant's name.....: Jetlun(ShenZhen)Corporation

Address .....

1008A Skyworth Building Gao-xin RD South High-tech Park  
Nanshan District Shenzhen China

#### Test specification:

Standard .....

47 CFR FCC Part 15 Subpart B - Unintentional Radiators

ANSI C63.4: 2009

TRF Originator.....: Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF.....: Dated 2006-06

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Test item description .....

In Home Display

Trade Mark .....

/

Model/Type reference.....

RD77723

Listed Models .....

/

Operation Frequency.....

From 2400MHz to 2483.5MHz

Result.....

Positive

## TEST REPORT

<b>Test Report No. :</b>	<b>TRE1212010003</b>	Jan 07, 2013 Date of issue
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Equipment under Test : In Home Display

Model /Type : RD77723

Listed Models : /

**Applicant** : **Jetlun(ShenZhen)Corporation**

Address : 1008A Skyworth Building Gao-xin RD South High-tech Park Nanshan District Shenzhen China

**Manufacturer** **ZHUHAI YUEHUA ELECTRONIC CO., LTD**

Address : #13, No.4 PINGDONG ROAD, NANPING TECHNOLOGY DISTRICT, ZHUHAI, GUANGDONG, CHINA

<b>Test Result</b> according to the standards on page 4:	<b>Positive</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## **1. TEST STANDARDS**

The tests were performed according to following standards:

[\*\*47 CFR FCC Part 15 Subpart B - Unintentional Radiators\*\*](#)

[\*\*ANSI C63.4: 2009\*\*](#) – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

## 2. SUMMARY

### 2.1. General Remarks

Date of receipt of test sample	:	Dec 24, 2012
Testing commenced on	:	Dec 24, 2012
Testing concluded on	:	Jan 07, 2013

### 2.2. Equipment Under Test

#### Power supply system utilised

Power supply voltage	:	<input type="radio"/> 120V / 60 Hz	<input type="radio"/> 115V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input type="radio"/> Other (specified in blank below)	

AV 100-240V 50Hz/60Hz

### 2.3. Short description of the Equipment under Test (EUT)

2.4GHz (In Home Display (RD77723))

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

### 2.4. EUT operation mode

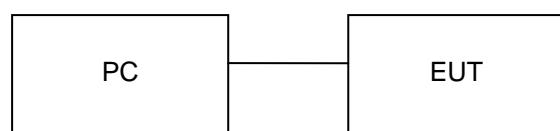
The EUT has been tested under typical operating condition.

### 2.5. Modifications

No modifications were implemented to meet testing criteria.

### 2.6. Configuration of Tested System

#### Configuration of Tested System



#### Equipment Used in Tested System

No.	Equipment	Manufacturer	Model No.	Serial No.	Notes
1	PC	DELL	DIMENSION E520	CNG8390Q6X	DOC
2	LCD	DELL	1707FPT	CN-OPO153-64180-59E-00ZP	---

## 2.7. NOTE

The EUT is a In Home Display, The functions of the EUT listed as below:

	Test Standards	Reference Report
Zigbee	FCC Part 15 Subpart C (Section15.247)	TRE1212010001
MPE REPORT	FCC Per 47 CFR 2.1091(b)	TRE1212010002
EMC REPORT	FCC PART 15 Subpart B	TRE1212010003

### **3. TEST ENVIRONMENT**

#### **3.1. Address of the test laboratory**

Shenzhen Huatongwei International Inspection Co., Ltd  
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China  
Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

#### **3.2. Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L1225**

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: August 02, 2007. Valid time is until Feb 28, 2015.

##### **A2LA-Lab Cert. No. 2243.01**

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept 30, 2013.

##### **FCC-Registration No.: 662850**

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date June 01, 2015.

##### **IC-Registration No.: 5377**

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377 on Jan 25, 2011. Valid time is until Jan 24, 2014

##### **ACA**

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

##### **NEMKO-Aut. No.: ELA125**

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025:2005 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10; the Authorization is valid through July 07, 2013.

##### **VCCI**

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2484. Date of Registration: December 20, 2009. Valid time is until December 19, 2013.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: December 20, 2009. Valid time is until December 19, 2013.

**DNV**

Shenzhen Huatongwei International Inspection Co Ltd has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025(2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug 24, 2013.

### **3.3. Environmental conditions**

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

### **3.4. Statement of the measurement uncertainty**

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9K-30MHz	3.22 dB	(1)
Radiated Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3.5. Equipments Used during the Test

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI TEST RECEIVER	Rohde & Schwarz	ESCI	100106	2012/10/27
2	ARTIFICIAL MAINS	Rohde & Schwarz	ESH2-Z5	100028	2012/10/27
3	PULSE LIMITER	Rohde & Schwarz	ESHSZ2	100044	2012/10/27
4	EMI TEST SOFTWARE	Rohde & Schwarz	ES-K1	N/A	2012/10/27

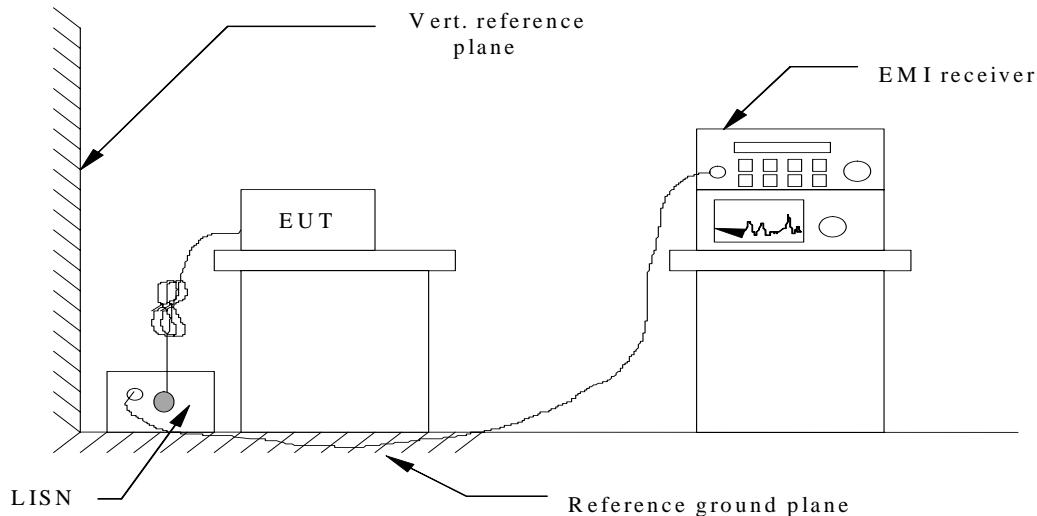
Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	Rohde & Schwarz	HL562	100015	2012/10/27
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2012/10/27
3	RF TEST PANEL	Rohde & Schwarz	TS / RSP	335015/ 0017	2012/10/27
4	TURNTABLE	ETS	2088	2149	2012/10/27
5	ANTENNA MAST	ETS	2075	2346	2012/10/27
6	EMI TEST SOFTWARE	Rohde & Schwarz	ESK1	N/A	2012/10/27
7	HORN ANTENNA	Rohde & Schwarz	HF906	100039	2012/10/27
8	Amplifier	Sonoma	310N	E009-13	2012/10/27
9	JS amplifier	Rohde & Schwarz	JS4-00101800-28-5A	F201504	2012/10/27
10	High pass filter	Compliance Direction systems	BSU-6	34202	2012/10/27
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2012/10/27

The calibration interval was one year.

## 4. TEST CONDITIONS AND RESULTS

### 4.1. Conducted Emissions

#### TEST CONFIGURATION



#### TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2009.
- 2 Support equipment, if needed, was placed as per ANSI C63.4-2009.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2009.
- 4 The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

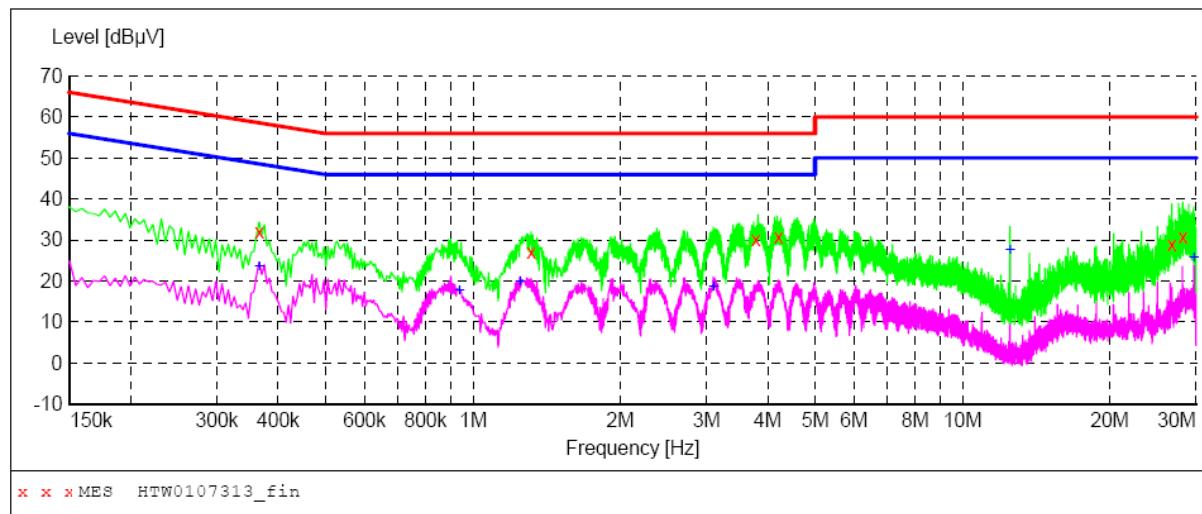
#### CONDUCTED POWER LINE EMISSION LIMIT

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

Frequency (MHz)	Maximum RF Line Voltage (dB $\mu$ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

#### TEST RESULTS

**SCAN TABLE: "Voltage (9K-30M) FIN"**  
 Short Description: 150K-30M Voltage



**MEASUREMENT RESULT: "HTW0107313\_fin"**

1/7/2013 3:25PM

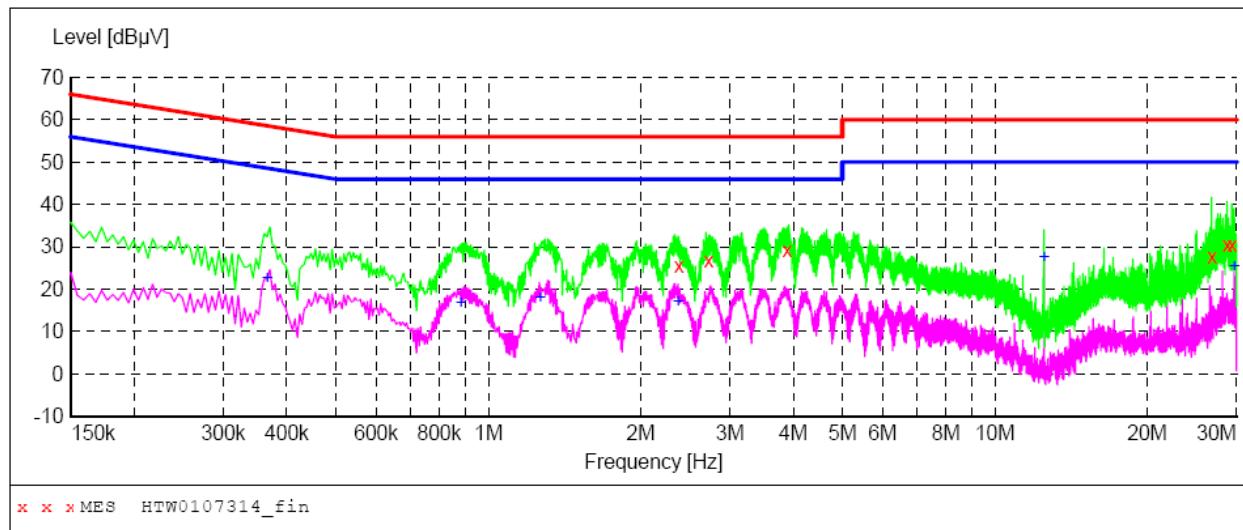
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.366000	32.10	10.2	59	26.5	QP	L1	GND
1.315500	27.20	10.3	56	28.8	QP	L1	GND
3.781500	30.00	10.4	56	26.0	QP	L1	GND
4.209000	30.90	10.4	56	25.1	QP	L1	GND
26.763000	28.80	11.2	60	31.2	QP	L1	GND
28.185000	30.80	11.2	60	29.2	QP	L1	GND

**MEASUREMENT RESULT: "HTW0107313\_fin2"**

1/7/2013 3:25PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.366000	23.60	10.2	49	25.0	AV	L1	GND
0.937500	17.80	10.3	46	28.2	AV	L1	GND
1.248000	19.90	10.3	46	26.1	AV	L1	GND
3.102000	18.80	10.4	46	27.2	AV	L1	GND
12.502500	27.60	10.6	50	22.4	AV	L1	GND
29.697000	25.80	11.3	50	24.2	AV	L1	GND

**SCAN TABLE: "Voltage (9K-30M) FIN"**  
 Short Description: 150K-30M Voltage



**MEASUREMENT RESULT: "HTW0107314\_fin"**

1/7/2013 3:29PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
2.377500	25.50	10.4	56	30.5	QP	N	GND
2.719500	26.70	10.4	56	29.3	QP	N	GND
3.885000	29.30	10.4	56	26.7	QP	N	GND
26.821500	27.50	11.2	60	32.5	QP	N	GND
28.738500	30.30	11.2	60	29.7	QP	N	GND
29.386500	30.50	11.3	60	29.5	QP	N	GND

**MEASUREMENT RESULT: "HTW0107314\_fin2"**

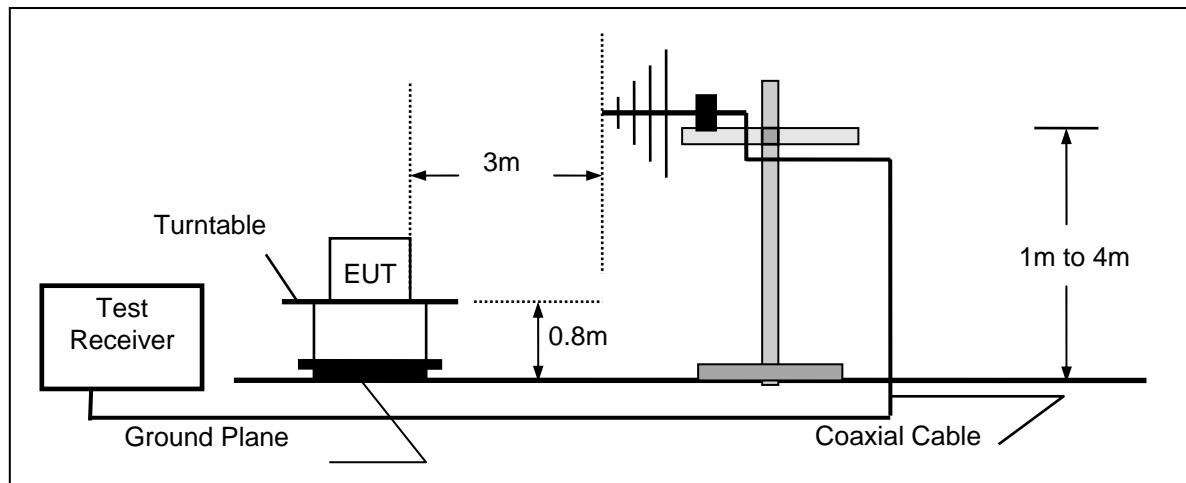
1/7/2013 3:29PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.366000	22.80	10.2	49	25.8	AV	N	GND
0.883500	16.90	10.2	46	29.1	AV	N	GND
1.266000	18.20	10.3	46	27.8	AV	N	GND
2.368500	17.10	10.4	46	28.9	AV	N	GND
12.502500	27.60	10.6	50	22.4	AV	N	GND
29.697000	25.60	11.3	50	24.4	AV	N	GND

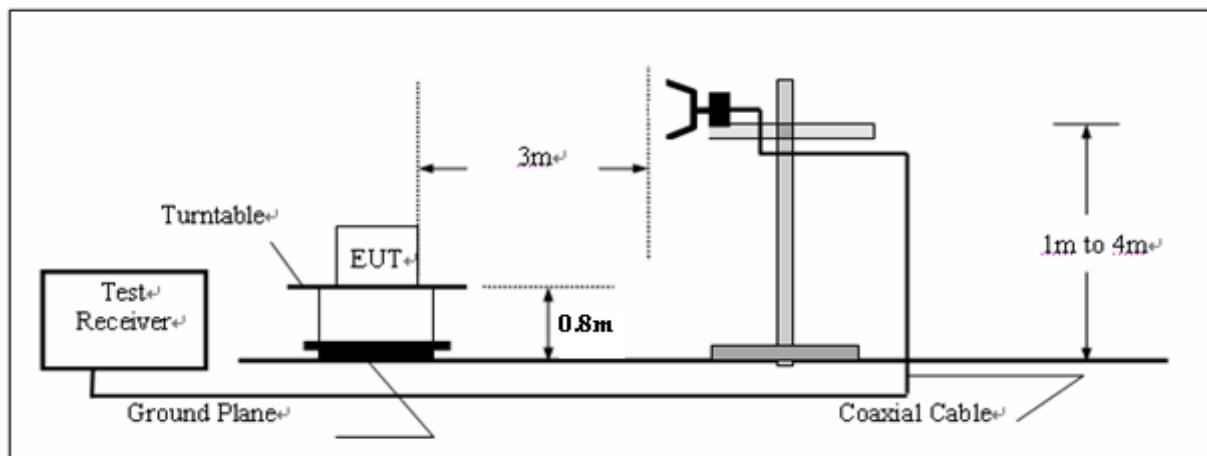
## 4.2. Radiated Emission

### TEST CONFIGURATION

a) Radiated Emission Test Set-Up, Frequency below 1000MHz



b) Radiated Emission Test Set-Up, Frequency above 1000MHz



### TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

**FIELD STRENGTH CALCULATION**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF - CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

For example

Frequency (MHz)	FS (dB $\mu$ V/m)	RA (dB $\mu$ V/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
300.00	40	58.1	12.2	1.6	31.90	-18.1

$$Transd = AF + CL - AG$$

**RADIATION LIMIT**

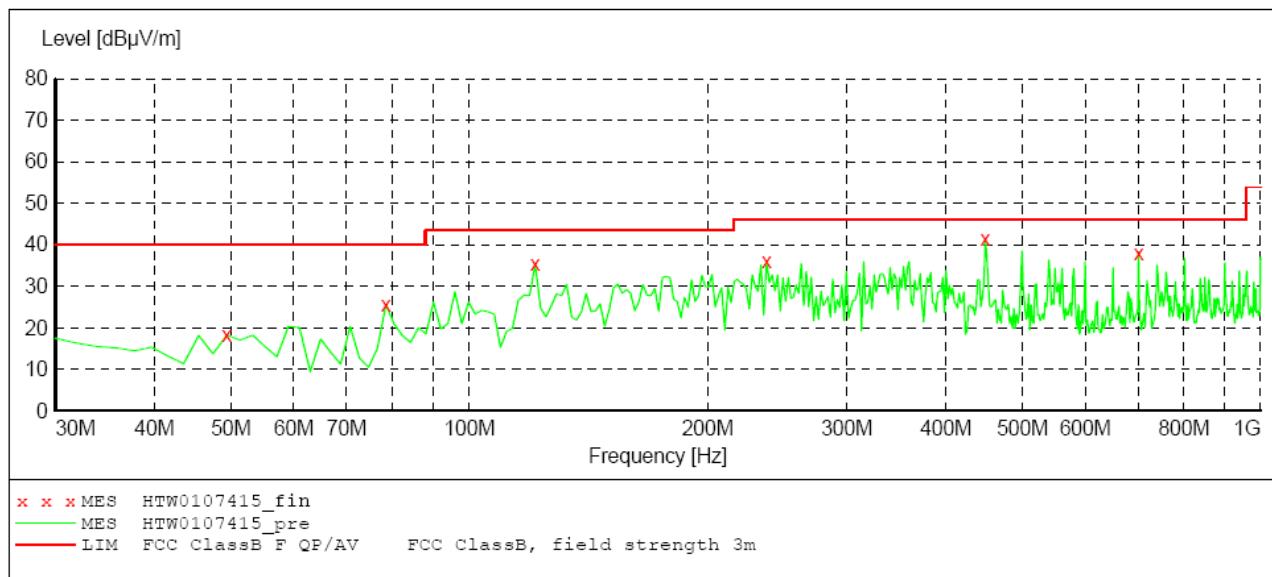
According to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB $\mu$ V/m)	Radiated ( $\mu$ V/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

**TEST RESULTS**

## SCAN TABLE: "test Field (30M-1G) QP"

Short Description: Field Strength (30M-1G)  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562



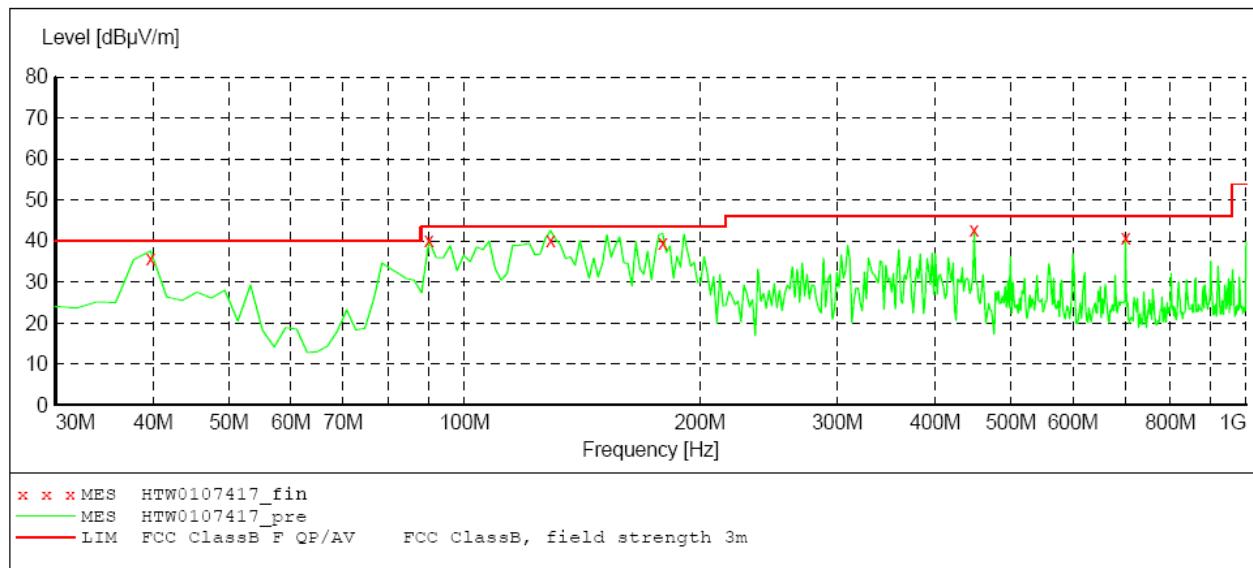
## MEASUREMENT RESULT: "HTW0107415\_fin"

1/7/2013 1:40PM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
49.400000	18.30	-22.0	40.0	21.7	QP	300.0	321.00	HORIZONTAL
78.500000	25.50	-22.4	40.0	14.5	QP	300.0	208.00	HORIZONTAL
121.180000	35.30	-19.3	43.5	8.2	QP	300.0	130.00	HORIZONTAL
237.580000	36.00	-19.1	46.0	10.0	QP	100.0	294.00	HORIZONTAL
449.040000	41.40	-14.8	46.0	4.6	QP	100.0	305.00	HORIZONTAL
701.240000	38.10	-9.9	46.0	7.9	QP	100.0	311.00	HORIZONTAL

## SCAN TABLE: "test Field (30M-1G) QP"

Short Description: Field Strength (30M-1G)  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562



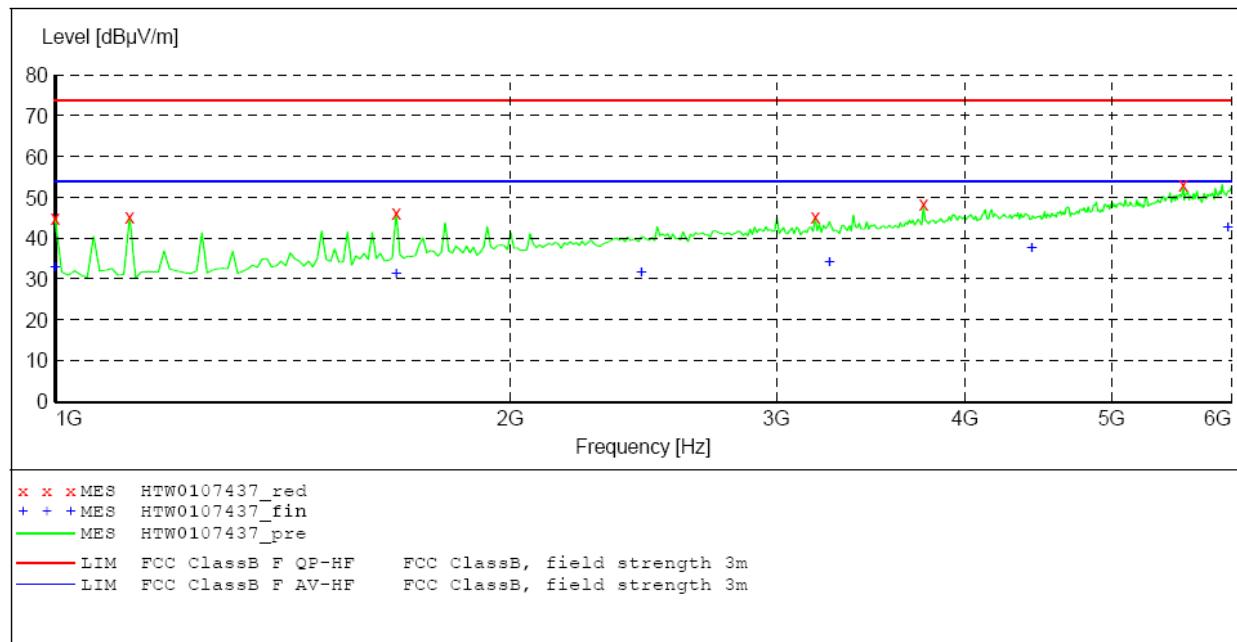
## MEASUREMENT RESULT: "HTW0107417\_fin"

1/7/2013 1:45PM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
39.700000	36.60	-16.4	40.0	3.4	QP	100.0	289.00	VERTICAL
90.140000	40.10	-20.3	43.5	3.4	QP	100.0	134.00	VERTICAL
128.940000	40.60	-20.2	43.5	2.9	QP	100.0	259.00	VERTICAL
179.380000	40.90	-22.3	43.5	2.6	QP	100.0	319.00	VERTICAL
449.040000	42.60	-14.8	46.0	3.4	QP	100.0	217.00	VERTICAL
701.240000	40.70	-9.9	46.0	5.3	QP	100.0	354.00	VERTICAL

**SCAN TABLE: "test Field(1G-6G) AV"**

Short Description: Field Strength(1G-6G)  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906

**MEASUREMENT RESULT: "HTW0107437\_red"**

1/7/2012 12:33AM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det. PK	Height cm	Azimuth deg	Polarization
1000.000000	45.00	-7.5	74.0	29.0	PK	100.0	199.00	HORIZONTAL
1120.240481	45.50	-6.8	74.0	28.5	PK	100.0	272.00	HORIZONTAL
1681.362725	46.50	-3.4	74.0	27.5	PK	100.0	184.00	HORIZONTAL
3184.368737	45.40	3.0	74.0	28.6	PK	100.0	145.00	HORIZONTAL
3755.511022	48.50	4.8	74.0	25.5	PK	100.0	159.00	HORIZONTAL
5579.158317	53.40	10.7	74.0	20.6	PK	100.0	130.00	HORIZONTAL

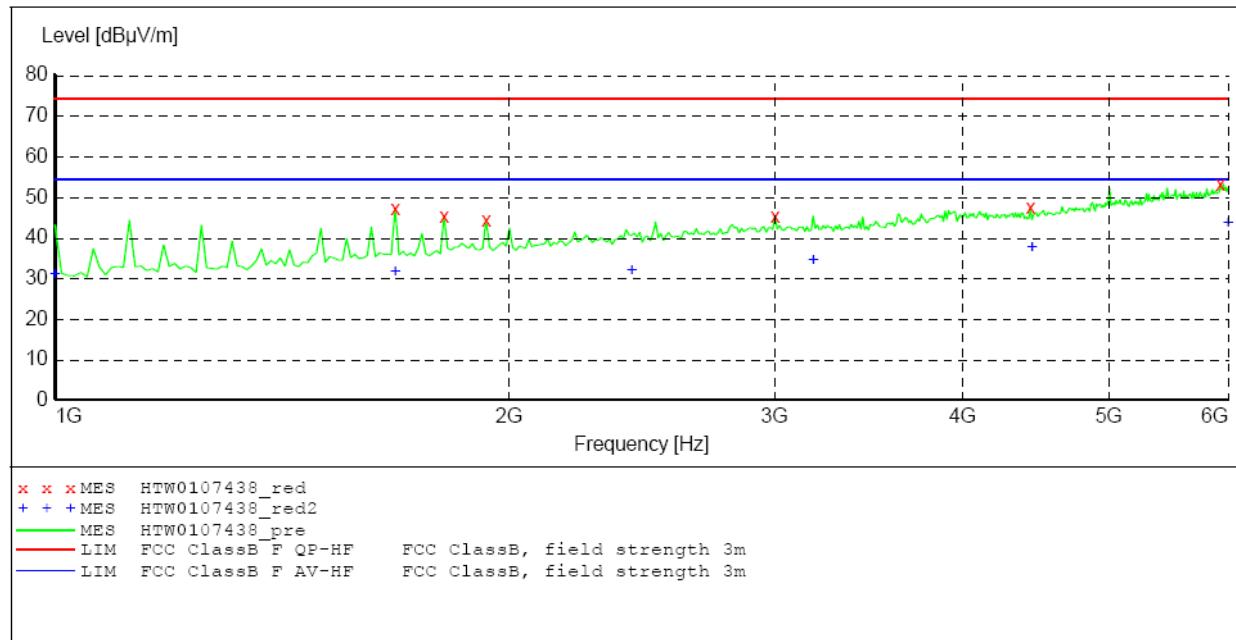
**MEASUREMENT RESULT: "HTW0107437\_fin"**

1/7/2012 12:33AM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det. AV	Height cm	Azimuth deg	Polarization
1000.000000	33.30	-7.5	54.0	20.7	AV	100.0	199.00	HORIZONTAL
1681.362725	31.50	-3.4	54.0	22.5	AV	100.0	184.00	HORIZONTAL
2442.885772	31.80	0.9	54.0	22.2	AV	100.0	104.00	HORIZONTAL
3254.509018	34.40	3.2	54.0	19.6	AV	100.0	127.00	HORIZONTAL
4426.853707	37.80	6.3	54.0	16.2	AV	100.0	39.00	HORIZONTAL
5969.939880	43.00	11.4	54.0	11.0	AV	100.0	112.00	HORIZONTAL

**SCAN TABLE: "test Field(1G-6G)AV"**

Short Description: Field Strength(1G-6G)  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906

**MEASUREMENT RESULT: "HTW0107438\_red"**

1/7/2012 12:42AM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det. PK	Height cm	Azimuth deg	Polarization
1681.362725	47.00	-3.4	74.0	27.0	PK	100.0	168.00	VERTICAL
1811.623246	45.10	-2.4	74.0	28.9	PK	100.0	174.00	VERTICAL
1931.863727	44.30	-1.5	74.0	29.7	PK	100.0	65.00	VERTICAL
3004.008016	45.10	2.7	74.0	28.9	PK	100.0	340.00	VERTICAL
4436.873747	47.40	6.3	74.0	26.6	PK	100.0	71.00	VERTICAL
5929.859719	53.00	11.4	74.0	21.0	PK	100.0	23.00	VERTICAL

**MEASUREMENT RESULT: "HTW0107438\_red2"**

1/7/2012 12:42AM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det. AV	Height cm	Azimuth deg	Polarization
1000.000000	31.00	-7.5	54.0	23.0	AV	100.0	65.00	VERTICAL
1681.362725	31.70	-3.4	54.0	22.3	AV	100.0	168.00	VERTICAL
2412.825651	31.90	0.8	54.0	22.1	AV	100.0	198.00	VERTICAL
3184.368737	34.40	3.0	54.0	19.6	AV	100.0	239.00	VERTICAL
4446.893788	37.50	6.3	54.0	16.5	AV	100.0	190.00	VERTICAL
6000.000000	43.50	11.5	54.0	10.5	AV	100.0	56.00	VERTICAL

## 5. Test Setup Photos of the EUT



.....End of Report.....