



FCC TEST REPORT

47 CFR FCC Part 15 Subpart B

FCC ID.....: N6QPT7131W

Report Reference No.....: TRE1203014503

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Wenliang Li

Date of issue.....: July 05, 2012

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

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

Applicant's name.....: TENVIS TECHNOLOGY CO LTD

Address: 301. building 6 No:3 Pu Xia Xia'an street, Liu Yue Community.
HengGang Town LongGang 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.....: IP CAMERA

Trade Mark.....: /

Model/Type reference.....: PT7131W

Listed Models.....: JPT3815W

Operation Frequency.....: From 2400MHz to 2483.5MHz

Result.....: Positive

TEST REPORT

Test Report No. :	TRE1203014503	July 05, 2012
		Date of issue

Equipment under Test : IP CAMERA

Model /Type : PT7131W

Listed Models : JPT3815W

Applicant : **TENVIS TECHNOLOGY CO LTD**

Address : 301.building 6 No:3 Pu Xia Xia'an street,LiuYue
Community. HengGang Town LongGang District
Shenzhen China

Manufacturer **TENVIS TECHNOLOGY CO LTD**

Address : 301.building 6 No:3 Pu Xia Xia'an street,LiuYue
Community. HengGang Town LongGang District
Shenzhen China

Test Result according to the standards on page 4:	Positive
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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	:	Mar 30, 2012
Testing commenced on	:	Mar 30, 2012
Testing concluded on	:	July 05, 2012

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage	:	☒ 120V / 60 Hz	☐ 115V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☐ Other (specified in blank below)	

/

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

2.4GHz (IP CAMERA (PT7131W))

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. Related Submittal(s) / Grant (s)

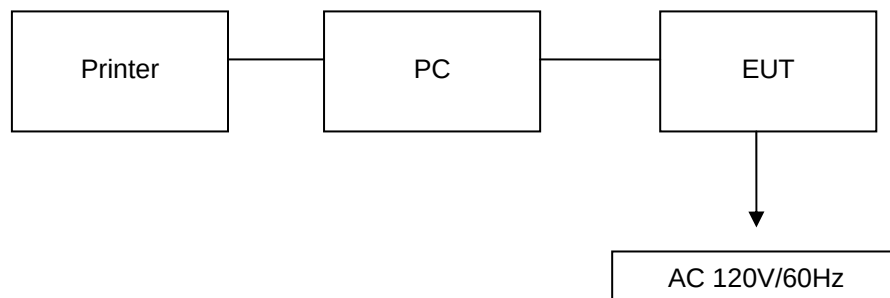
This submittal(s) (test report) is intended for FCC ID: **N6QPT7131W** filing to comply with the FCC Part 15, Subpart B Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.

2.7. 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-OP0153-64180-59E-00ZP	
3	Printer	HP	Laserjet 6L C3990	Laserjet 6L C3990A	DOC

2.8. NOTE

- The EUT is a 802.11b/g/n IP CAMERA, The functions of the EUT listed as below:

	Test Standards	Reference Report
WLAN 802.11b/g/n	FCC Part 15 Subpart C (Section15.247)	TRE1203014501
MPE REPORT	FCC Per 47 CFR 2.1091(b)	TRE1203014502
EMC REPORT	FCC PART 15 Subpart B	TRE1203014503

- The frequency bands used in this EUT are listed as follows:

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
802.11b	√	—	—	—
802.11g	√	—	—	—
802.11n(20MHz)	√	—	—	—
802.11n(40MHz)	√	—	—	—

- The EUT incorporates a SISO function, Physically, the EUT provides one completed transmitter and one completed receiver.

Modulation Mode	TX Function
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX

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: Mar. 29, 2012. 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, 2012, valid time is until June. 01, 2015.

IC-Registration No.: 5377A

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. 5377A 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 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.: G-292. Date of Registration: Dec. 24, 2010. Valid time is until Dec. 23, 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: Dec. 20, 2009. Valid time is until Dec. 19, 2012.

Telecommunication 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.: T-1837. Date of Registration: May 07, 2010. Valid time is until May 06, 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:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

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	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	2011/10/23
2	ARTIFICIAL MAINS	Rohde & Schwarz	ESH2-Z5	100028	2011/10/23
3	PULSE LIMITER	Rohde & Schwarz	ESHSZ2	100044	2011/10/23
4	EMI TEST SOFTWARE	Rohde & Schwarz	ES-K1	N/A	2011/10/23

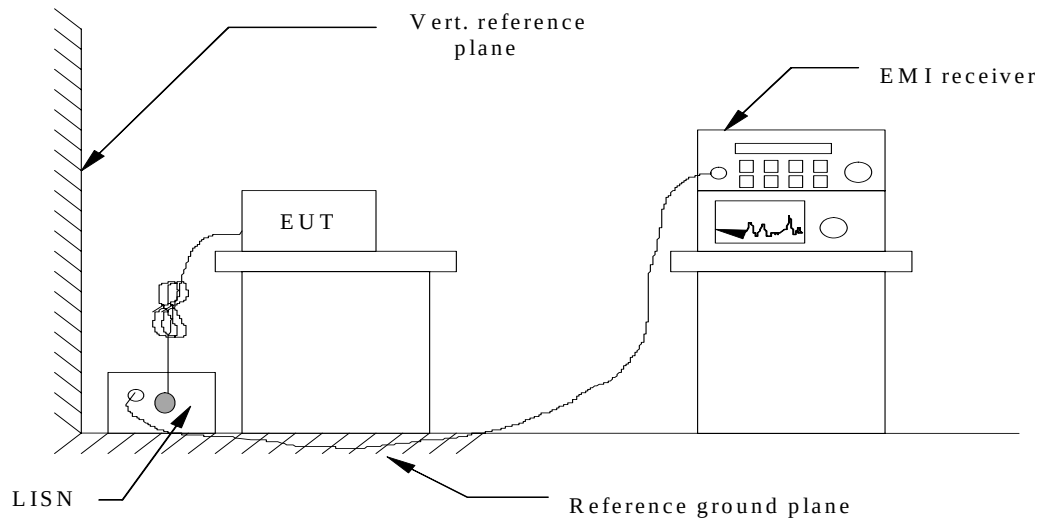
Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	Rohde & Schwarz	HL562	100015	2011/05/30
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2011/10/23
3	RF TEST PANEL	Rohde & Schwarz	TS / RSP	335015/ 0017	2011/10/23
4	TURNTABLE	ETS	2088	2149	2011/10/23
5	ANTENNA MAST	ETS	2075	2346	2011/10/23
6	EMI TEST SOFTWARE	Rohde & Schwarz	ESK1	N/A	2011/10/23
7	HORN ANTENNA	Rohde & Schwarz	HF906	100039	2011/10/23
8	Amplifier	Sonoma	310N	E009-13	2011/10/23
9	JS amplifier	Rohde & Schwarz	JS4-00101800-28-5A	F201504	2011/10/23
10	High pass filter	Compliance Direction systems	BSU-6	34202	2011/10/23

The calibration interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

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.

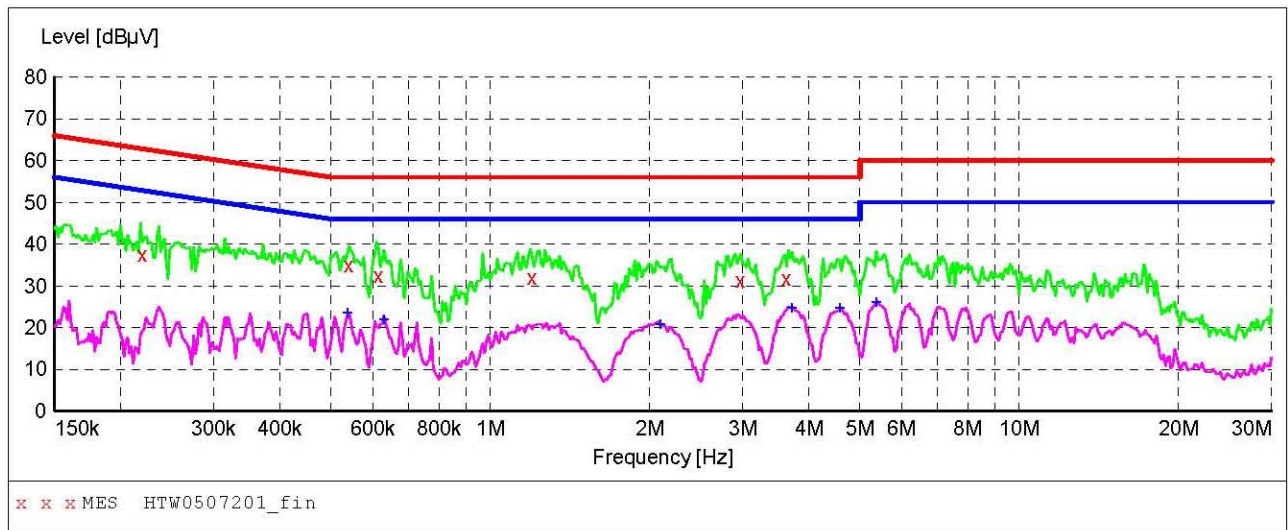
CONDUCTED POWER LINE EMISSION LIMIT

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

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	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: "HTW0507201_fin"**

12/31/2002 11:45PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.219880	37.50	9.7	63	25.3	QP	L1	GND
0.541044	35.00	9.7	56	21.0	QP	L1	GND
0.614610	32.50	9.8	56	23.5	QP	L1	GND
1.200297	32.00	9.9	56	24.0	QP	L1	GND
2.977078	31.20	9.8	56	24.8	QP	L1	GND
3.633320	31.80	9.8	56	24.2	QP	L1	GND

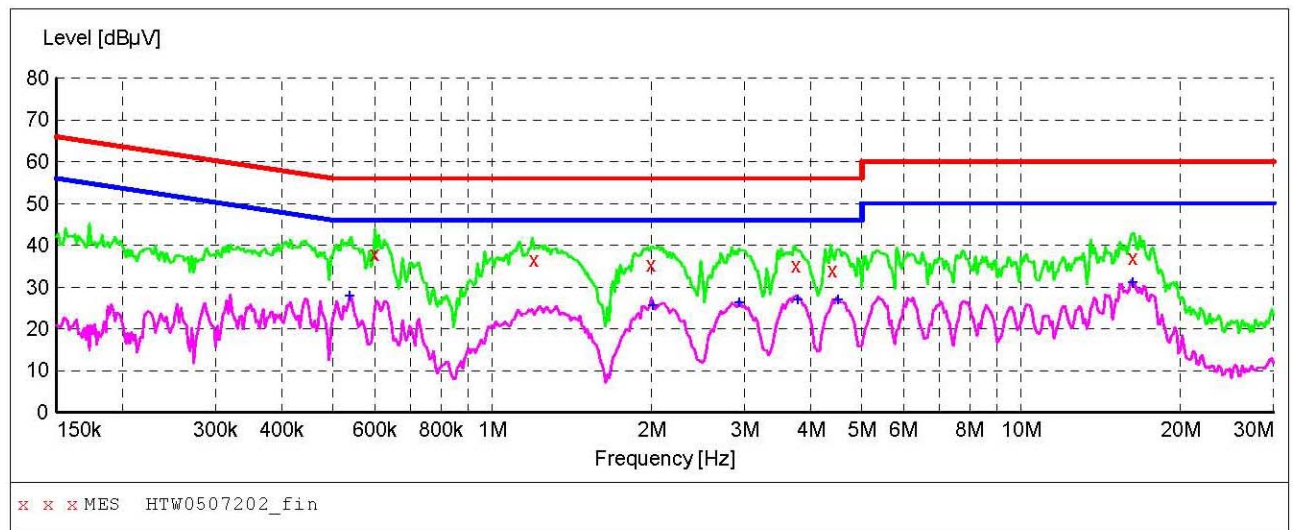
MEASUREMENT RESULT: "HTW0507201_fin2"

12/31/2002 11:45PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.536750	23.50	9.7	46	22.5	AV	L1	GND
0.629486	21.80	9.8	46	24.2	AV	L1	GND
2.096650	20.60	9.8	46	25.4	AV	L1	GND
3.721213	24.50	9.8	46	21.5	AV	L1	GND
4.577820	24.50	9.8	46	21.5	AV	L1	GND
5.368709	25.90	9.8	50	24.1	AV	L1	GND

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW0507202_fin"**

12/31/2002 11:53PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.600093	37.90	9.8	56	18.1	QP	N	GND
1.200300	36.50	9.9	56	19.5	QP	N	GND
1.998773	35.30	9.9	56	20.7	QP	N	GND
3.750990	35.10	9.8	56	20.9	QP	N	GND
4.399020	34.00	9.8	56	22.0	QP	N	GND
16.251147	37.10	9.7	60	22.9	QP	N	GND

MEASUREMENT RESULT: "HTW0507202_fin2"

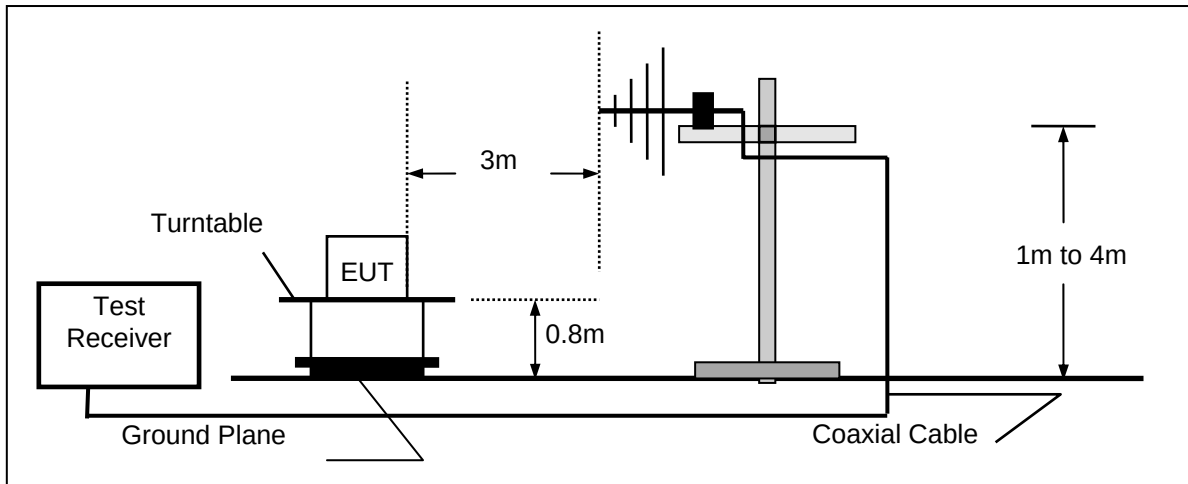
12/31/2002 11:53PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.536750	27.90	9.7	46	18.1	AV	N	GND
2.014760	25.60	9.8	46	20.4	AV	N	GND
2.930014	26.10	9.8	46	19.9	AV	N	GND
3.780998	26.90	9.8	46	19.1	AV	N	GND
4.505450	26.90	9.8	46	19.1	AV	N	GND
16.251150	31.00	9.7	50	19.0	AV	N	GND

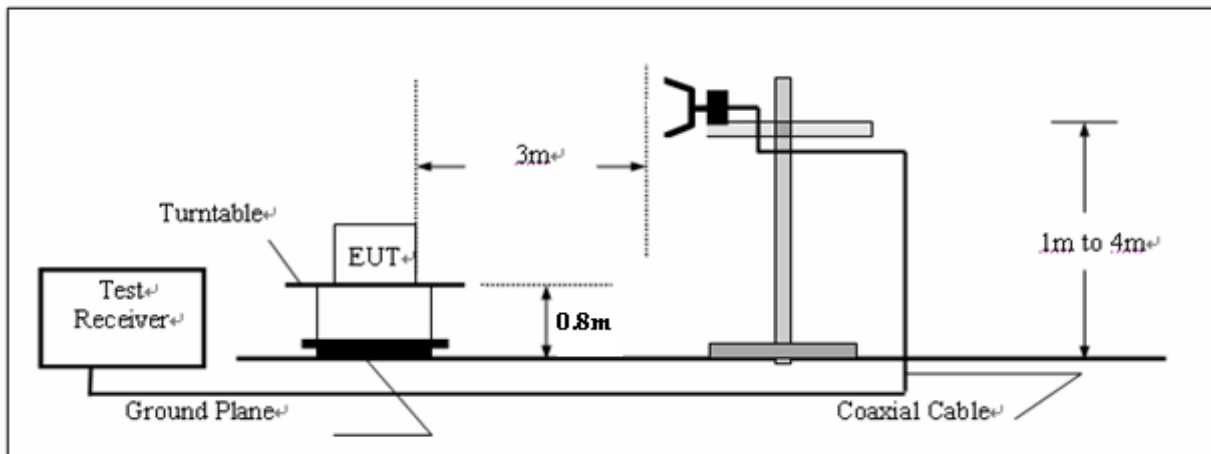
4.2. Radiated Emission Test

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 (dBμV/m)	RA (dBμV/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
300.00	40	58.1	12.2	1.6	31.90	-18.1

$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

RADIATION LIMIT

For unintentional device, 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 (dBμV/m)	Radiated (μV/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

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

TEST CONDITION

TEST RESULTS

Operation Mode: Maximum data rate

Temperature: 20 °C Humidity: 70 % RH

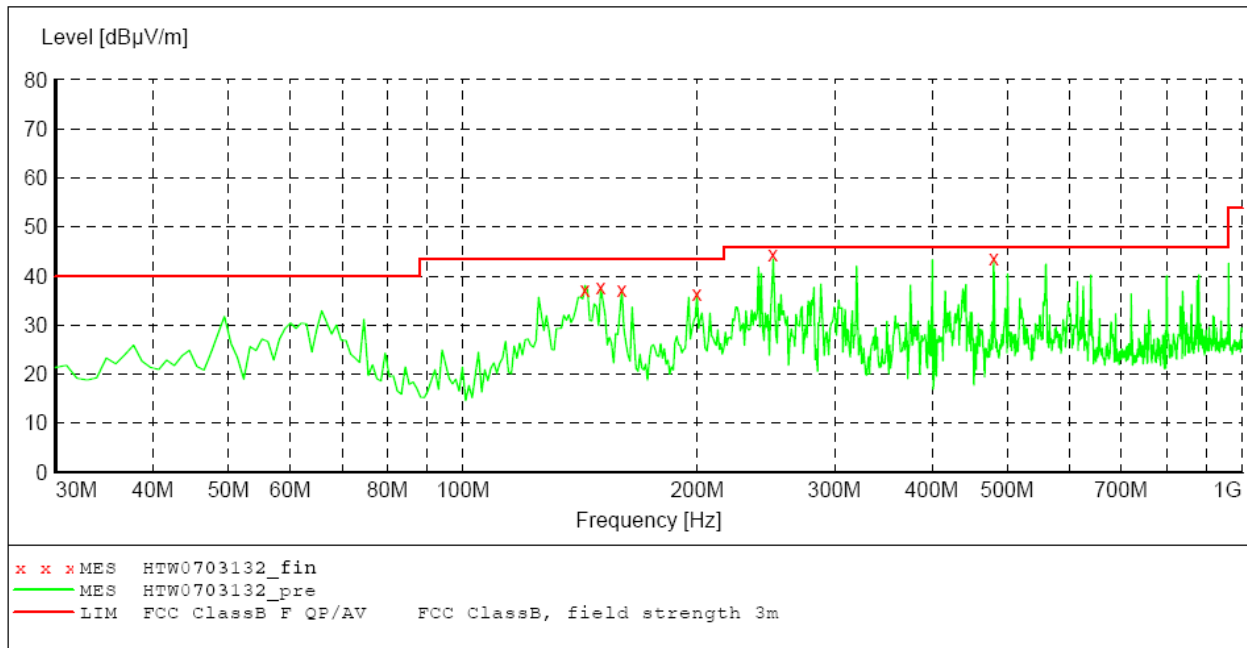
Polarity: Ver. / Hor.

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

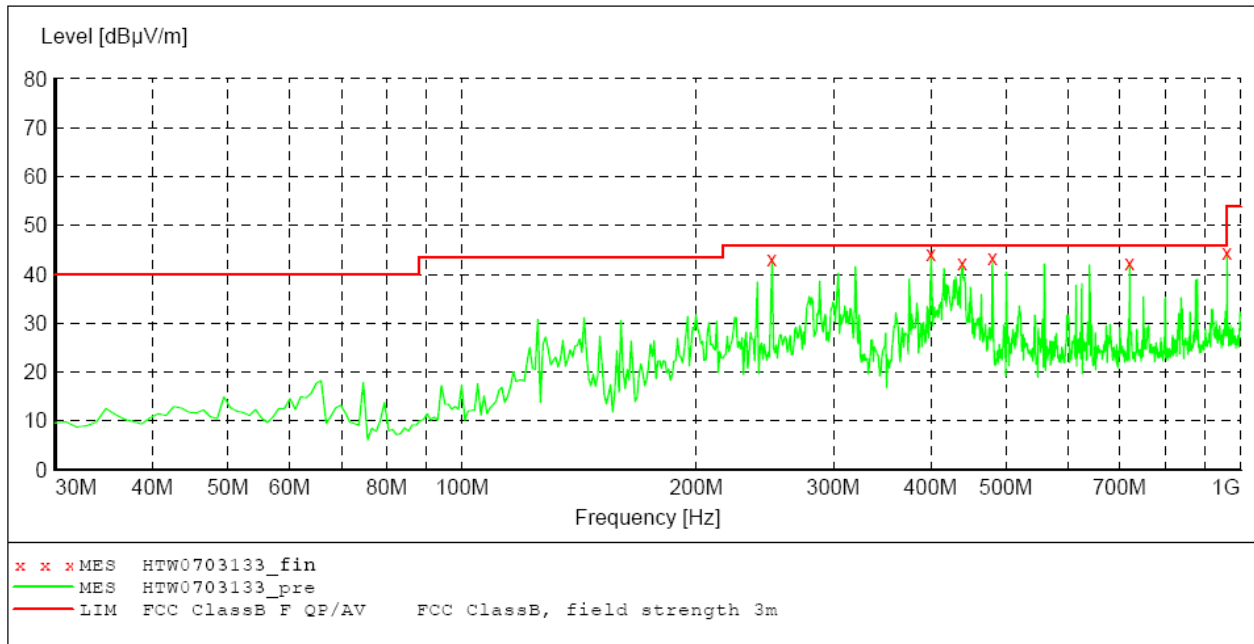
**MEASUREMENT RESULT: "HTW0703132_fin"**

7/3/2012 12:15PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
143.490000	37.10	-19.9	43.5	6.4	QP	100.0	25.00	VERTICAL
150.280000	37.60	-19.7	43.5	5.9	QP	100.0	25.00	VERTICAL
159.980000	37.20	-19.0	43.5	6.3	QP	100.0	146.00	VERTICAL
199.750000	36.50	-16.3	43.5	7.0	QP	100.0	335.00	VERTICAL
250.190000	44.40	-14.3	46.0	1.6	QP	100.0	46.00	VERTICAL
480.080000	43.60	-9.0	46.0	3.4	QP	100.0	125.00	VERTICAL

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

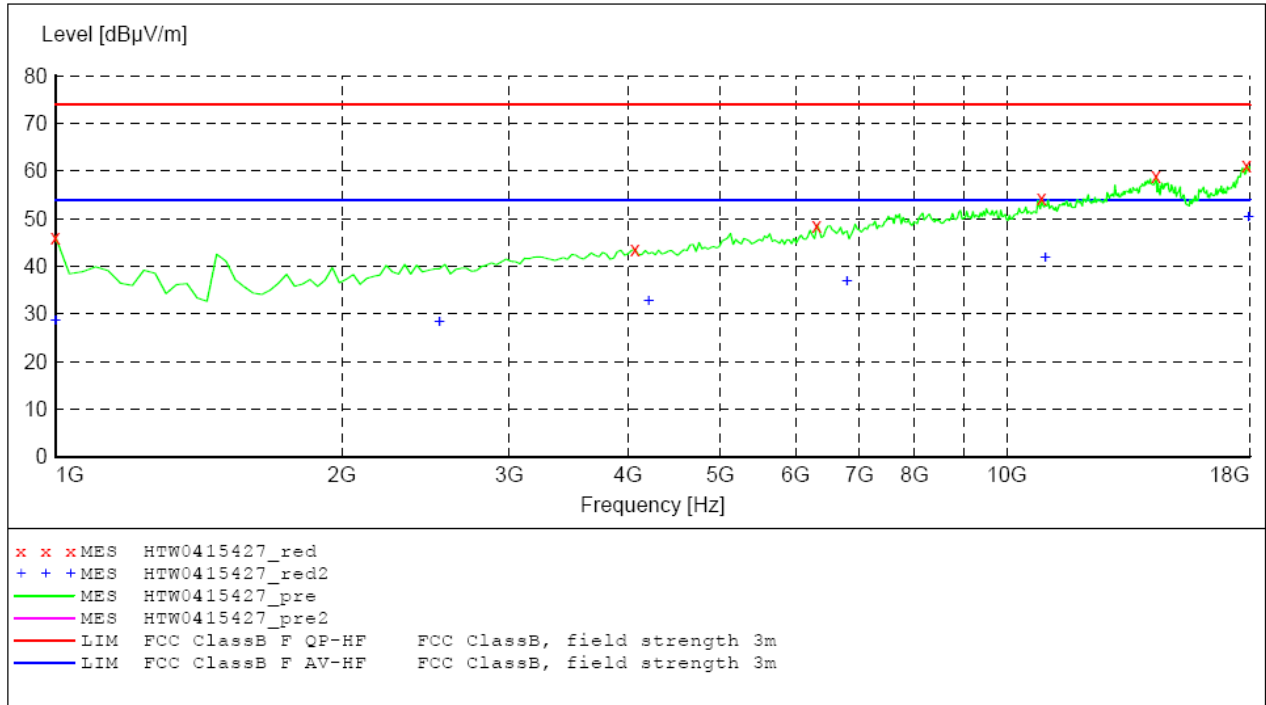
**MEASUREMENT RESULT: "HTW0703133_fin"**

7/3/2012 12:13PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
250.190000	43.00	-14.3	46.0	3.0	QP	100.0	40.00	HORIZONTAL
400.540000	44.20	-10.9	46.0	1.8	QP	100.0	114.00	HORIZONTAL
439.340000	42.20	-9.9	46.0	3.8	QP	300.0	97.00	HORIZONTAL
480.080000	43.30	-9.0	46.0	2.7	QP	100.0	214.00	HORIZONTAL
720.640000	42.40	-4.7	46.0	3.6	QP	100.0	161.00	HORIZONTAL
961.200000	44.40	-1.8	53.9	9.5	QP	100.0	204.00	HORIZONTAL

SWEEP TABLE: "test (1G-18G) P"

Short Description: Field Strength(above 1G)
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906

**MEASUREMENT RESULT: "HTW0415427_red"**

4/14/2012 10:06PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1000.000000	46.20	-26.8	74.0	27.8	PK	100.0	237.00	HORIZONTAL
4066.132265	43.60	-13.5	74.0	30.4	PK	100.0	192.00	HORIZONTAL
6314.629259	48.70	-10.8	74.0	25.3	PK	100.0	320.00	HORIZONTAL
10879.759519	54.30	-3.4	74.0	19.7	PK	100.0	354.00	HORIZONTAL
14354.709419	58.90	3.2	74.0	15.1	PK	100.0	305.00	HORIZONTAL
17863.727455	61.30	6.0	74.0	12.7	PK	100.0	118.00	HORIZONTAL

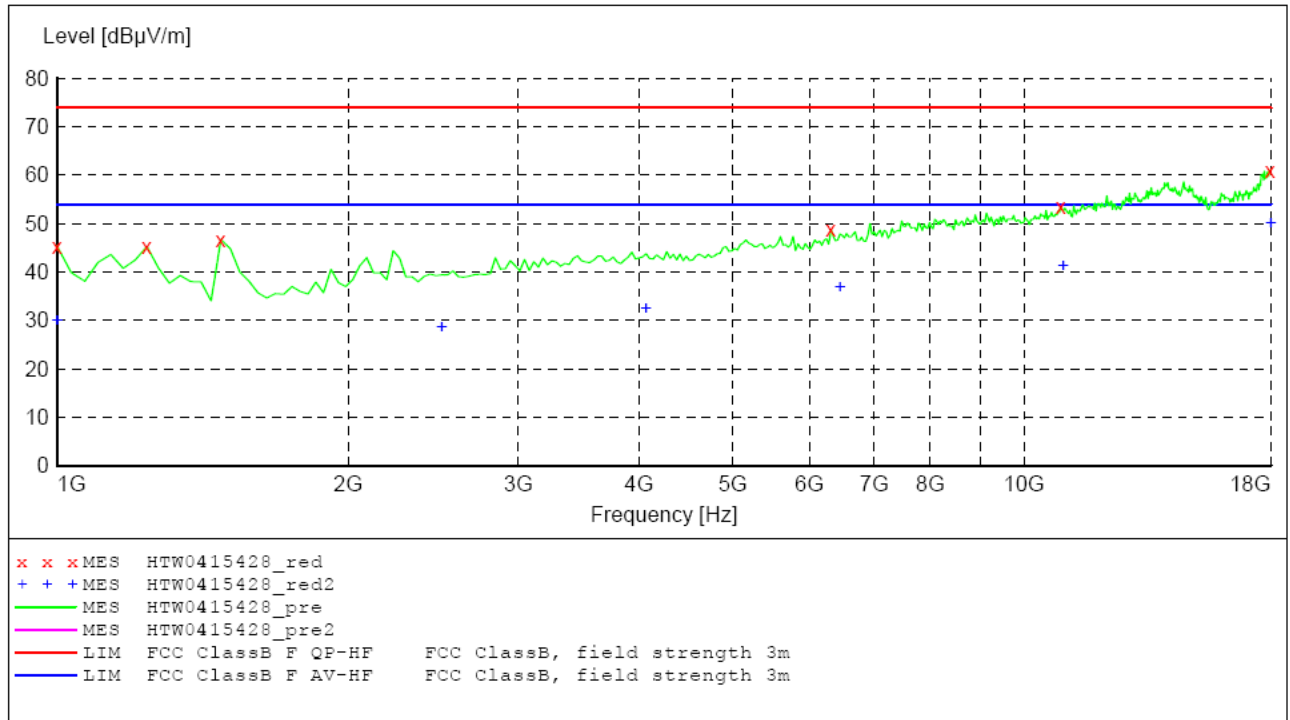
MEASUREMENT RESULT: "HTW0415427_red2"

4/14/2012 10:06PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1000.000000	28.70	-26.8	54.0	25.3	AV	100.0	237.00	HORIZONTAL
2533.066132	28.50	-17.0	54.0	25.5	AV	100.0	207.00	HORIZONTAL
4202.404810	32.80	-13.6	54.0	21.2	AV	100.0	112.00	HORIZONTAL
6791.583166	37.10	-10.2	54.0	16.9	AV	100.0	14.00	HORIZONTAL
10981.963928	41.90	-3.2	54.0	12.1	AV	100.0	59.00	HORIZONTAL
17965.931864	50.40	6.8	54.0	3.6	AV	100.0	0.00	HORIZONTAL

SWEEP TABLE: "test (1G-18G) P"

Short Description: Field Strength(above 1G)
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906

**MEASUREMENT RESULT: "HTW0415428_red"**

4/14/2012 10:09PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1000.000000	45.30	-26.8	74.0	28.7	PK	100.0	229.00	VERTICAL
1238.476954	45.20	-25.2	74.0	28.8	PK	100.0	208.00	VERTICAL
1476.953908	46.70	-23.9	74.0	27.3	PK	100.0	76.00	VERTICAL
6314.629259	48.80	-10.8	74.0	25.2	PK	100.0	348.00	VERTICAL
10913.827655	53.40	-3.4	74.0	20.6	PK	100.0	194.00	VERTICAL
17965.931864	61.00	6.8	74.0	13.0	PK	100.0	13.00	VERTICAL

MEASUREMENT RESULT: "HTW0415428_red2"

4/14/2012 10:09PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1000.000000	30.10	-26.8	54.0	23.9	AV	100.0	43.00	VERTICAL
2498.997996	28.60	-17.1	54.0	25.4	AV	100.0	355.00	VERTICAL
4066.132265	32.60	-13.5	54.0	21.4	AV	100.0	333.00	VERTICAL
6450.901804	37.00	-10.4	54.0	17.0	AV	100.0	66.00	VERTICAL
10981.963928	41.40	-3.2	54.0	12.6	AV	100.0	105.00	VERTICAL
18000.000000	50.10	7.0	54.0	3.9	AV	100.0	253.00	VERTICAL

5. Test Setup Photos of the EUT



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