



## FCC TEST REPORT

### 47 CFR FCC Part 15 Subpart B (Class B) Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement

**Report Reference No.**.....: **TRE1202002902**

Compiled by

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*Wenliang Li*

Date of issue.....: Apr 23, 2012

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

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

**Applicant's name**.....: **Hytera Communications Corporation Ltd.**

Address .....: HYT Tower,Hi-Tech Industrial Park North,Nanshan District,Shenzhen China.518057

**Test specification:**

Standard .....: **47 CFR FCC Part 15 Subpart B - Unintentional Radiators**

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

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

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**Test item description** .....: TWO-WAY RADIO

Trade Mark .....:



Model/Type reference.....: TC-320 U(1)

Listed Models .....: /

Ratings .....: DC 3.70 V

Modulation .....: FM

Channel Separation.....: 12.5KHz

Rated Power .....: 4 Watts(36.02 dBm)/0.5 Watts(26.99 dBm)

Operation Frequency Range.....: 400-470 MHz

Result.....: **Positive**

# TEST REPORT

<b>Test Report No. :</b>	<b>TRE1202002902</b>	Apr 23, 2012 Date of issue
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Equipment under Test : TWO-WAY RADIO

Model /Type : TC-320 U(1)

Listed Models : /

Applicant : **Hytera Communications Corporation Ltd.**

Address : HYT Tower,Hi-Tech Industrial Park North,Nanshan District,Shenzhen China.518057

Manufacturer : **Hytera Communications Corporation Ltd.**

Address : HYT Tower,Hi-Tech Industrial Park North,Nanshan District,Shenzhen China.518057

<b>Test Result</b> according to the standards on page 4:	<b>Positive</b>
----------------------------------------------------------	-----------------

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	:	Feb 09, 2012
Testing commenced on	:	Feb 09, 2012
Testing concluded on	:	Apr 23, 2012

### 2.2. Product Description

The Hytera Communications Corporation Ltd.'s Model: TC-320 U(1) or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT	TWO-WAY RADIO	
Model Number	TC-320 U(1)	
FCC ID	YAMTC-320U1	
Rated Output Power	4 Watts(36.02 dBm)/0.5 Watts(26.99 dBm)	
Modulation Type	FM for Analog Voice	
	Analog	11K0F3E for 12.5KHz Channel Separation
Channel Separation	Analog Voice	12.5KHz
Antenna Type	External	
Frequency Range	400-470 MHz	
Maximum Output Power	Analog	<u>4.80 W</u> for 12.5 KHz Channel Separation

### 2.3. 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 checked="" type="radio"/> Other (specified in blank below)	

DC 3.70V from battery

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

400-470 MHz U frequency band TWO-WAY RADIO (TC-320 U(1)).

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

Serial number: Prototype

### 2.5. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.6. EUT operation mode

The EUT has been tested under typical operating condition.

**2.7. Modifications**

No modifications were implemented to meet testing criteria.

**2.8. EUT configuration**

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

<input type="radio"/>	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/
<input type="radio"/>	Multimeter	Manufacturer :	/
		Model No. :	/

**2.9. Related Submittal(s) / Grant (s)**

This submittal(s) (test report) is intended for FCC ID: **YAMTC-320U1** filing to comply with FCC Part 15 B Rules

**2.10. Modifications**

No modifications were implemented to meet testing criteria.

**2.11. Note**

- The EUT is a U frequency band (400-470 MHz) TWO-WAY RADIO, The functions of the EUT listed as below:

	Test Standards	Reference Report
Radio	FCC Part 90	TRE1202002901
Radio	FCC Part 15 B	TRE1202002902

### **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 30, 2009. 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 Jun 01, 2009.

##### **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, 2006. Valid time is until December 20, 2012.

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, 2006. Valid time is until December 19, 2012.

**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	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**

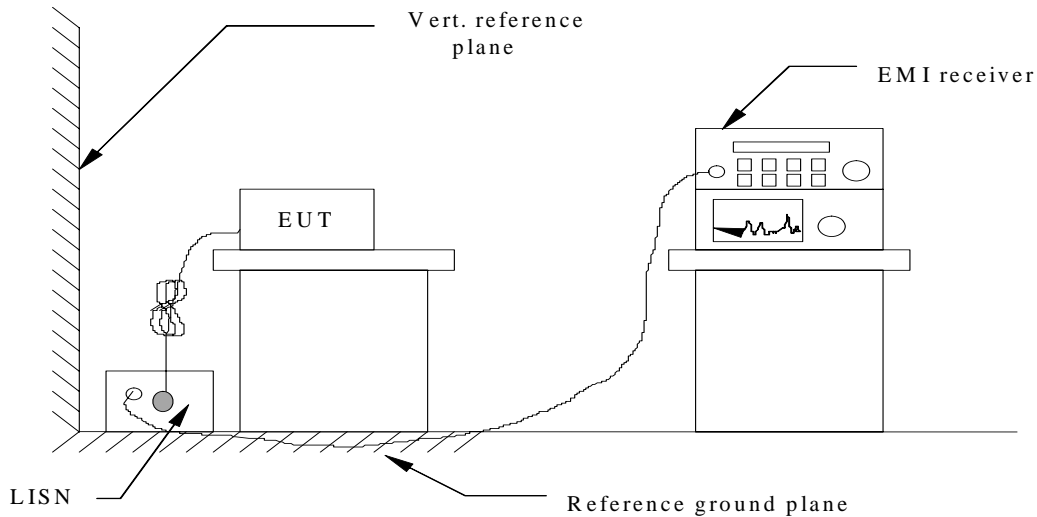
Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Due
1	EMI TEST RECEIVER	Rohde&Schwarz	ESCI	100106	2011/10/23
2	ARTIFICIAL MAINS	Rohde&Schwarz	ESH2-Z5	100028	2011/10/23
3	PULSE LIMITER	Rohde&Schwarz	ESHSZ2	100044	2011/10/23
4	EMI TEST SOFTWARE	Rohde&Schwarz	ES-K1	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	2011/10/23
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	Amplifer	Sonoma	310N	E009-13	2011/10/23
9	JS amplifer	Rohde&Schwarz	JS4-00101800-28-5A	F201504	2011/10/23

## 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

Limit of Conducted Disturbance at Mains Ports (Class B)

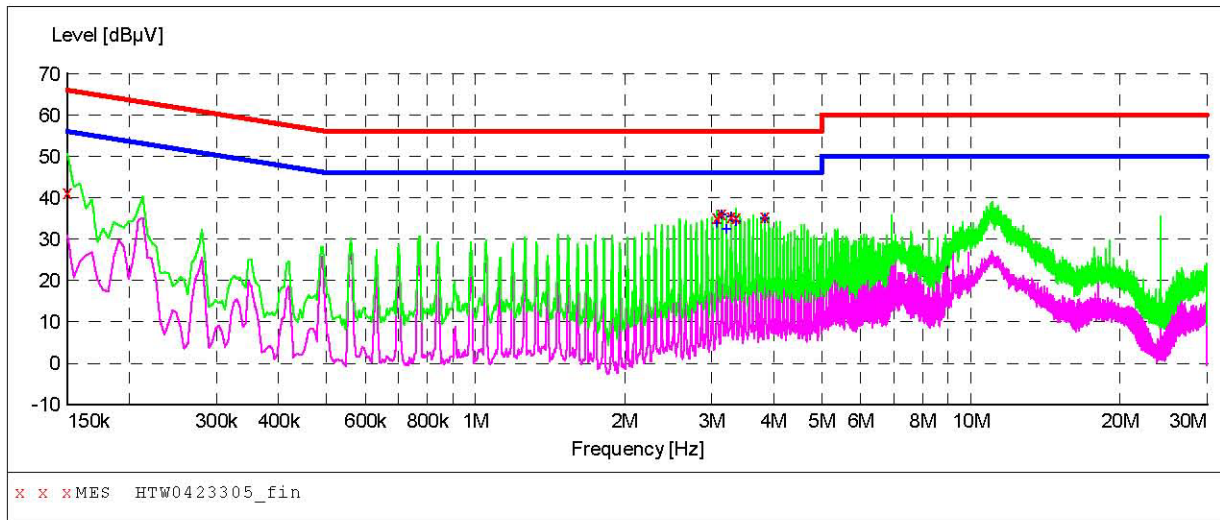
Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.000	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

**TEST RESULTS**

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

Short Description: 150K-30M Voltage



**MEASUREMENT RESULT: "HTW0423305\_fin"**

4/23/2012 9:22AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	41.40	10.1	66	24.6	QP	N	GND
3.070500	35.20	10.2	56	20.8	QP	N	GND
3.142500	36.30	10.2	56	19.7	QP	N	GND
3.282000	35.60	10.2	56	20.4	QP	N	GND
3.354000	35.30	10.2	56	20.7	QP	N	GND
3.840000	35.60	10.2	56	20.4	QP	N	GND

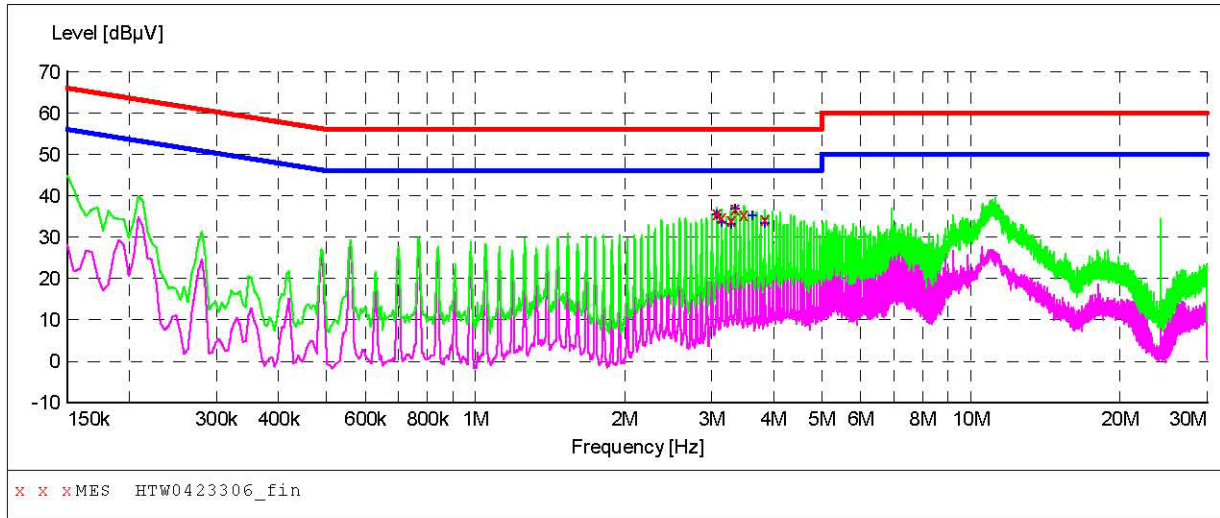
**MEASUREMENT RESULT: "HTW0423305\_fin2"**

4/23/2012 9:22AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
3.075000	33.90	10.2	46	12.1	AV	N	GND
3.142500	36.00	10.2	46	10.0	AV	N	GND
3.214500	32.60	10.2	46	13.4	AV	N	GND
3.282000	35.50	10.2	46	10.5	AV	N	GND
3.354000	34.40	10.2	46	11.6	AV	N	GND
3.840000	35.10	10.2	46	10.9	AV	N	GND

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

Short Description: 150K-30M Voltage



**MEASUREMENT RESULT: "HTW0423306\_fin"**

4/23/2012 9:26AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
3.070500	35.80	10.2	56	20.2	QP	L1	GND
3.142500	34.90	10.2	56	21.1	QP	L1	GND
3.282000	34.10	10.2	56	21.9	QP	L1	GND
3.349500	37.00	10.2	56	19.0	QP	L1	GND
3.489000	35.60	10.2	56	20.4	QP	L1	GND
3.840000	34.40	10.2	56	21.6	QP	L1	GND

**MEASUREMENT RESULT: "HTW0423306\_fin2"**

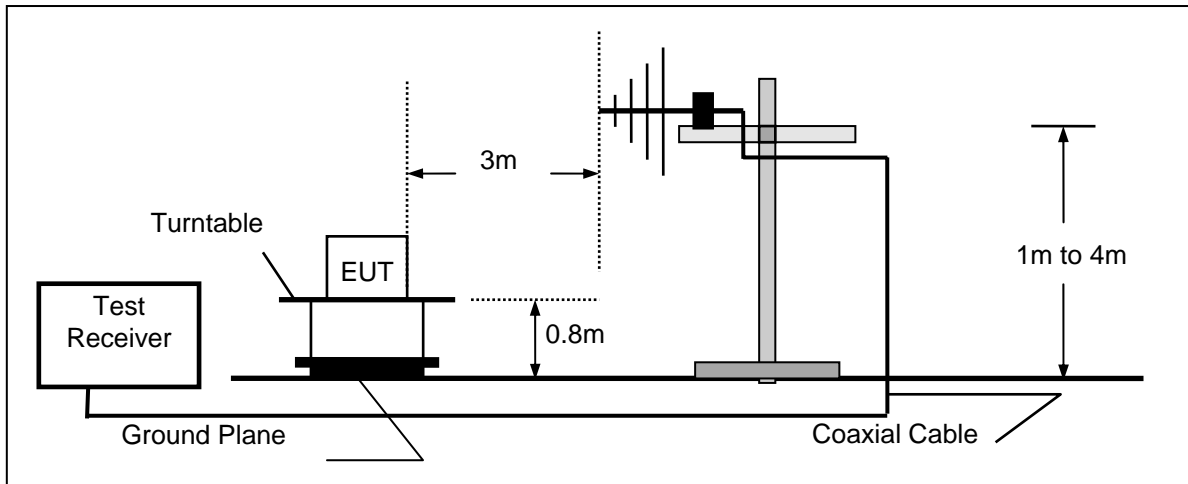
4/23/2012 9:26AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
3.070500	35.50	10.2	46	10.5	AV	L1	GND
3.142500	33.70	10.2	46	12.3	AV	L1	GND
3.282000	33.20	10.2	46	12.8	AV	L1	GND
3.349500	36.90	10.2	46	9.1	AV	L1	GND
3.628500	35.40	10.2	46	10.6	AV	L1	GND
3.840000	33.60	10.2	46	12.4	AV	L1	GND

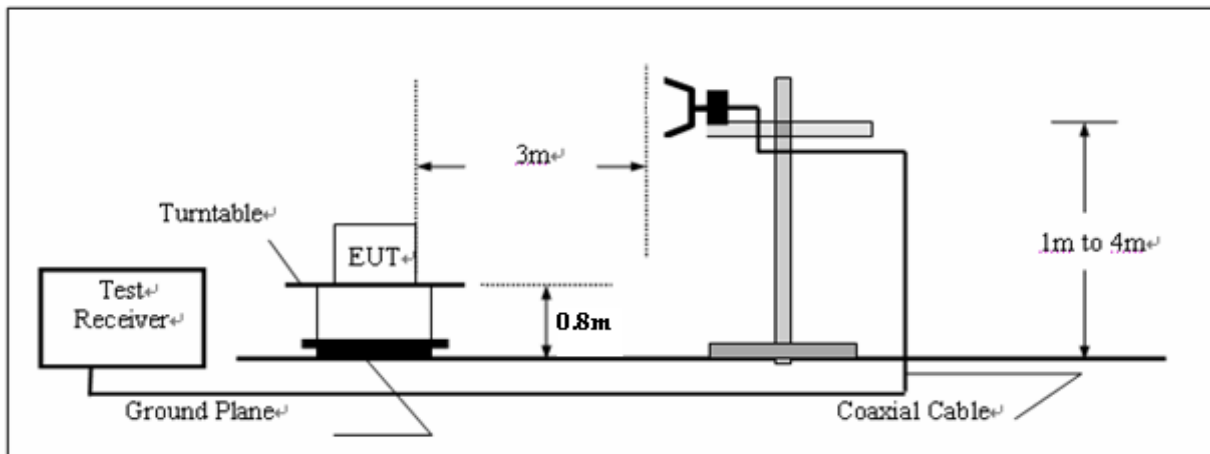
## 4.2. Radiated Emission Test

### 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 (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

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

**RADIATION LIMIT**

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB $\mu$ V/m)
30 ~ 88	3	40
88~216	3	43.5
216 ~ 960	3	46
960~1000	3	54

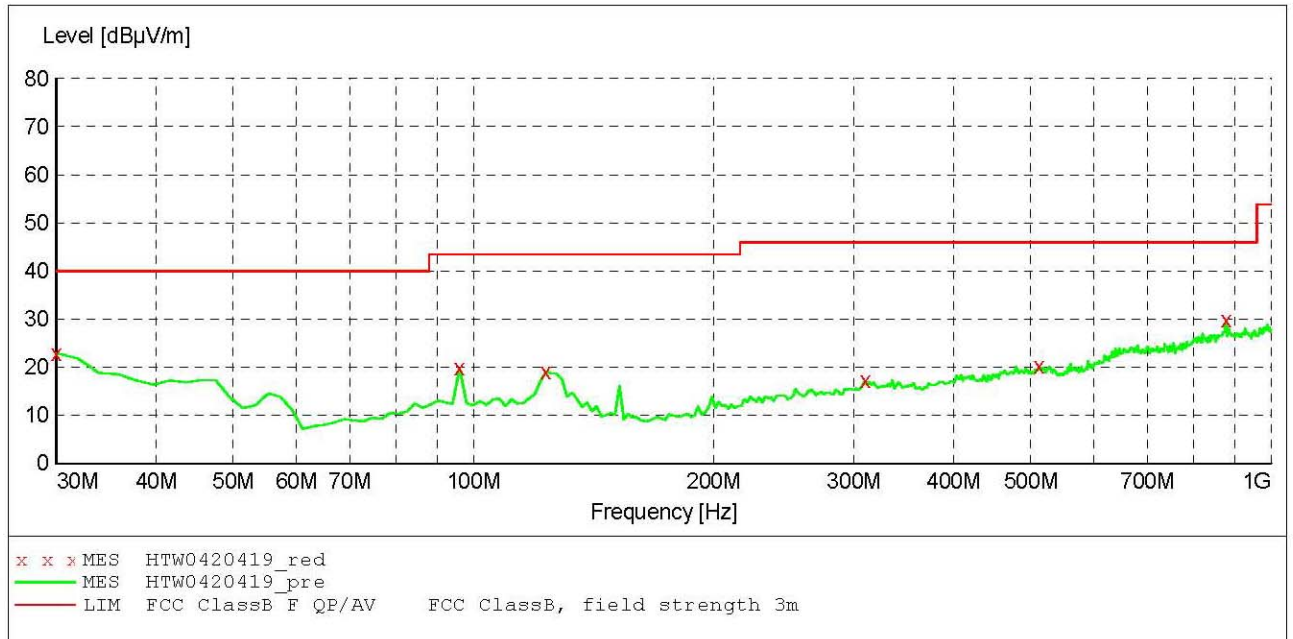
Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

**TEST RESULTS**

**SWEEP TABLE: "test (30M-1G)"**

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	120 kHz	HL562 201106



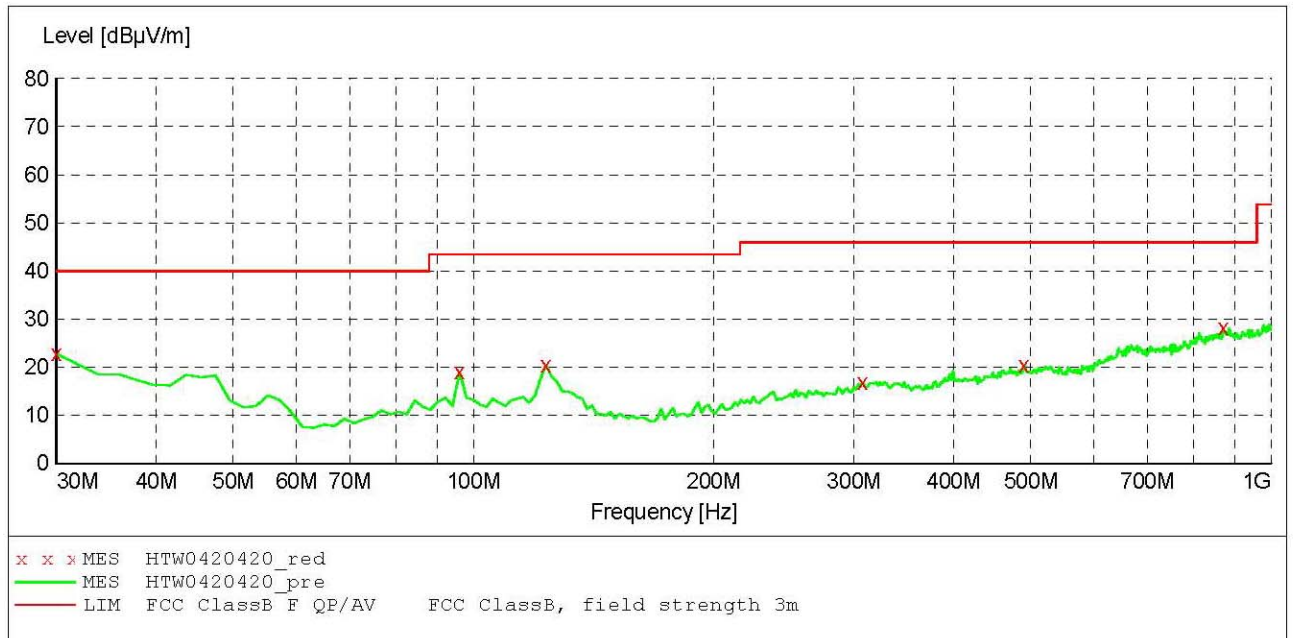
**MEASUREMENT RESULT: "HTW0420419\_red"**

1/6/2012 12:57PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	22.90	-11.3	40.0	17.1	PK	100.0	167.00	HORIZONTAL
96.092184	19.80	-19.9	43.5	23.7	PK	100.0	308.00	HORIZONTAL
123.306613	19.10	-19.5	43.5	24.4	PK	300.0	151.00	HORIZONTAL
309.919840	17.20	-16.3	46.0	28.8	PK	300.0	245.00	HORIZONTAL
512.084168	20.20	-13.1	46.0	25.8	PK	100.0	0.00	HORIZONTAL
879.478958	29.80	-7.0	46.0	16.2	PK	100.0	92.00	HORIZONTAL

**SWEEP TABLE: "test (30M-1G)"**

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	120 kHz	HL562 201106



**MEASUREMENT RESULT: " HTW0420420\_red"**

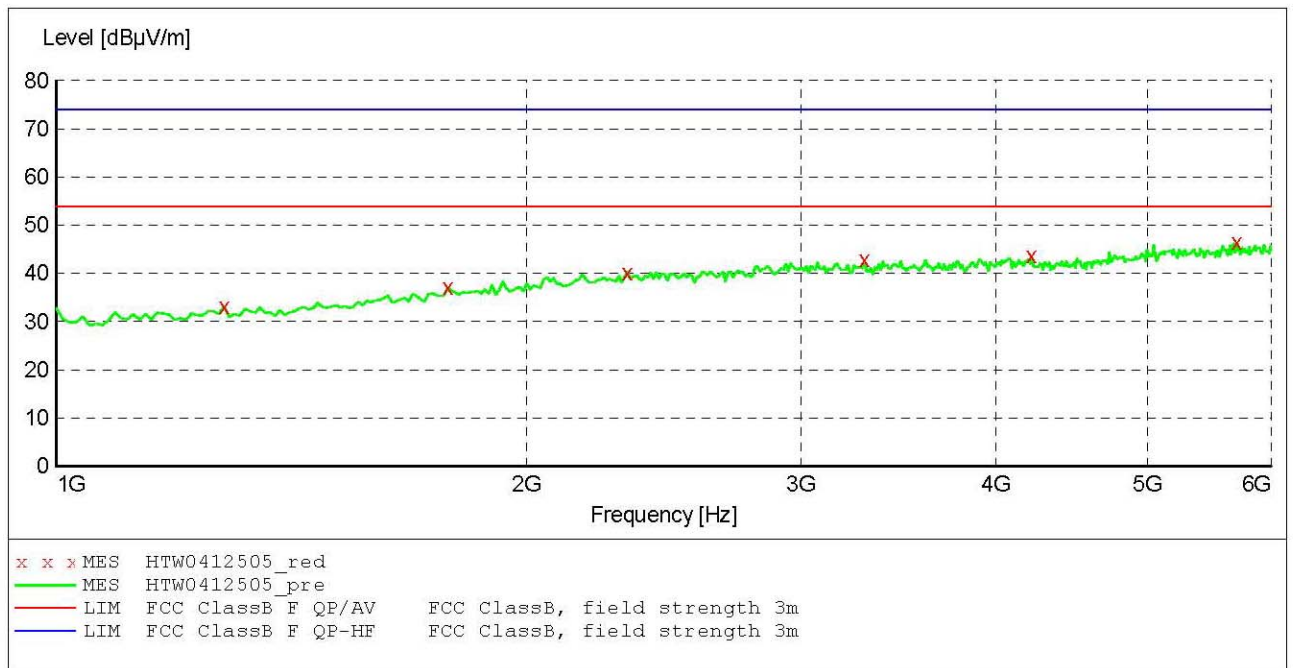
1/6/2012 12:59PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	22.80	-11.3	40.0	17.2	PK	100.0	150.00	VERTICAL
96.092184	19.00	-19.9	43.5	24.5	PK	100.0	106.00	VERTICAL
123.306613	20.50	-19.5	43.5	23.0	PK	300.0	122.00	VERTICAL
307.975952	16.90	-16.4	46.0	29.1	PK	300.0	293.00	VERTICAL
490.701403	20.40	-13.6	46.0	25.6	PK	300.0	3.00	VERTICAL
871.703407	28.20	-6.9	46.0	17.8	PK	300.0	360.00	VERTICAL



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

Short Description: EN 55022 Field Strength  
 Start Stop Detector Meas. IF Transducer  
 Frequency Frequency Time Bandw.  
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011



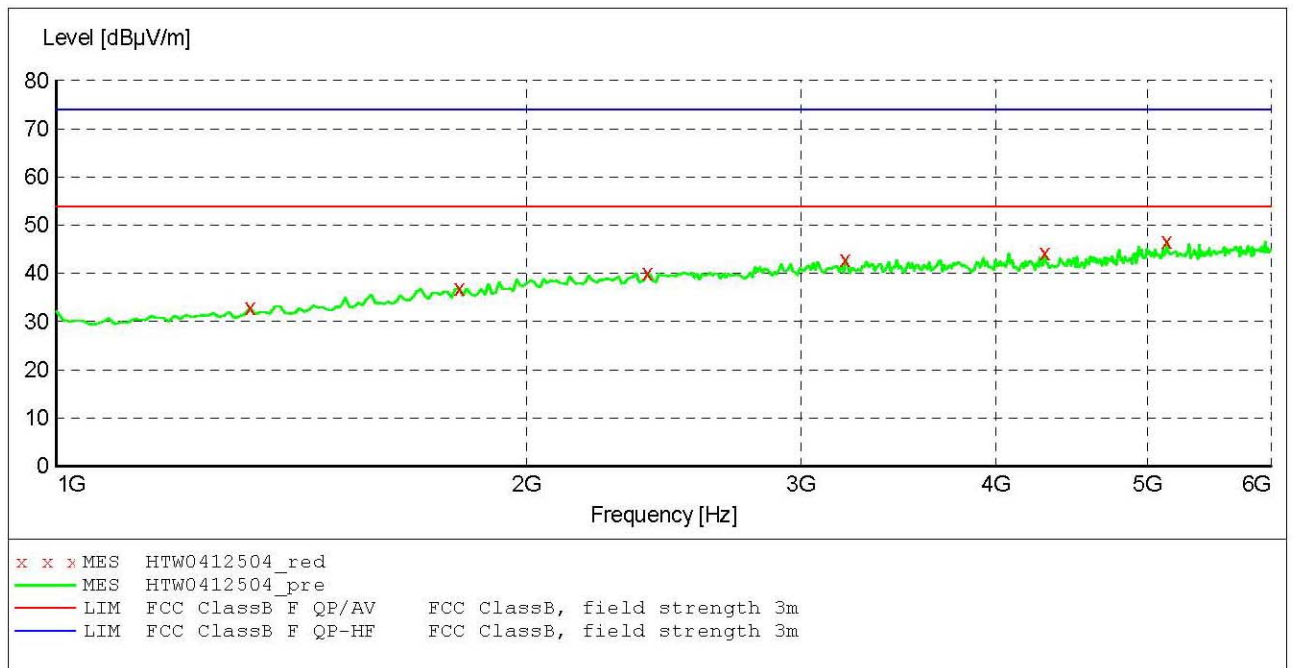
**MEASUREMENT RESULT: "HTW0412505\_red"**

4/12/2012 4:38PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1280.561122	33.10	-7.5	53.9	20.8	PK	100.0	72.00	HORIZONTAL
1781.563126	37.10	-3.2	53.9	16.8	PK	100.0	274.00	HORIZONTAL
2322.645291	40.20	0.1	53.9	13.7	PK	100.0	85.00	HORIZONTAL
3294.589178	42.80	2.4	53.9	11.1	PK	100.0	7.00	HORIZONTAL
4216.432866	43.60	3.5	53.9	10.3	PK	100.0	14.00	HORIZONTAL
5709.418838	46.40	6.9	53.9	7.5	PK	100.0	281.00	HORIZONTAL

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

Short Description: EN 55022 Field Strength  
 Start Stop Detector Meas. IF Transducer  
 Frequency Frequency Time Bandw.  
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011

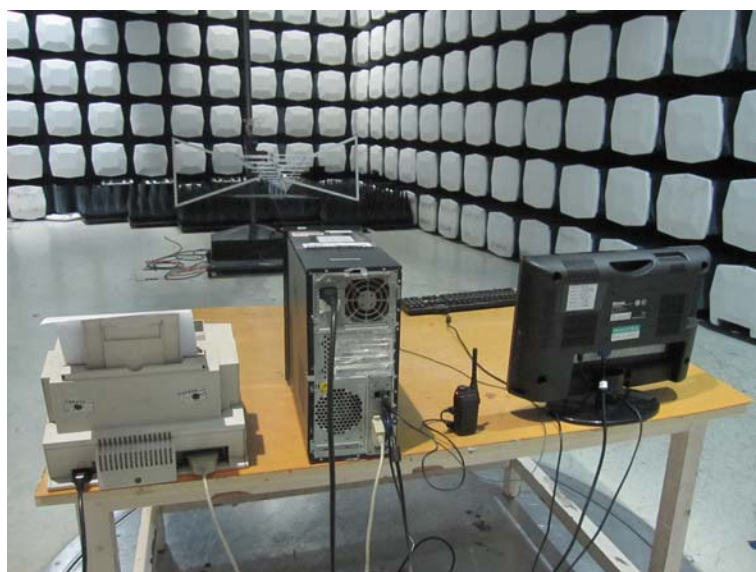


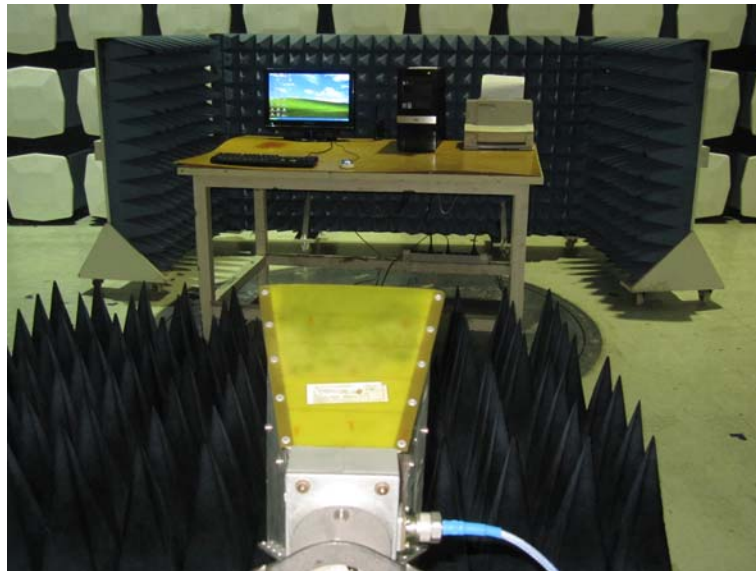
**MEASUREMENT RESULT: "HTW0412504\_red"**

4/12/2012 4:36PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1330.661323	33.00	-7.1	53.9	20.9	PK	100.0	157.00	VERTICAL
1811.623246	36.90	-3.0	53.9	17.0	PK	100.0	49.00	VERTICAL
2392.785571	40.10	0.4	53.9	13.8	PK	100.0	292.00	VERTICAL
3204.408818	42.90	2.3	53.9	11.0	PK	100.0	9.00	VERTICAL
4296.593186	44.30	3.5	53.9	9.6	PK	100.0	326.00	VERTICAL
5148.296593	46.60	5.9	53.9	7.3	PK	100.0	66.00	VERTICAL

## 5. Test Setup Photos of the EUT





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