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## FCC TEST REPORT

### 47 CFR FCC Part 15 Subpart B

Report Reference No. ....: TRE1305000902 R/C: 40532

FCC ID. ....: X5QRD71206

Compiled by

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

*Wenliang Li*

Date of issue. ....: May 21, 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 ....: Energy manager plus

Trade Mark ....: 

Model/Type reference ....: RD71206

Listed Models ....: /

Operation Frequency ....: From 2405MHz to 2480MHz

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

**T E S T   R E P O R T**

<b>Test Report No. :</b> <b>TRE1305000902</b>	May 21, 2013
	Date of issue

Equipment under Test                      :            Energy manager plus

Model /Type                                        :            RD71206

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.

## Contents

<b><u>1.</u></b>	<b><u>TEST STANDARDS .....</u></b>	<b><u>4</u></b>
<b><u>2.</u></b>	<b><u>SUMMARY .....</u></b>	<b><u>5</u></b>
2.1.	General Remarks	5
2.2.	Equipment Under Test	5
2.3.	Short description of the Equipment under Test (EUT)	5
2.4.	EUT operation mode	5
2.5.	Modifications	5
2.6.	Configuration of Tested System	5
2.7.	NOTE	6
<b><u>3.</u></b>	<b><u>TEST ENVIRONMENT .....</u></b>	<b><u>7</u></b>
3.1.	Address of the test laboratory	7
3.2.	Test Facility	7
3.3.	Environmental conditions	8
3.4.	Statement of the measurement uncertainty	8
3.5.	Equipments Used during the Test	9
<b><u>4.</u></b>	<b><u>TEST CONDITIONS AND RESULTS .....</u></b>	<b><u>10</u></b>
4.1.	Conducted Emissions	10
4.2.	Radiated Emission	13
<b><u>5.</u></b>	<b><u>TEST SETUP PHOTOS OF THE EUT .....</u></b>	<b><u>19</u></b>

## **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	:	May 05, 2013
Testing commenced on	:	May 09, 2013
Testing concluded on	:	May 21, 2013

### 2.2. Equipment Under Test

#### Power supply system utilised

Power supply voltage	:	<input checked="" 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)	

/

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

2.4GHz (Energy manager plus (RD71206))

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

Serial number: Prototype

### 2.4. EUT operation mode

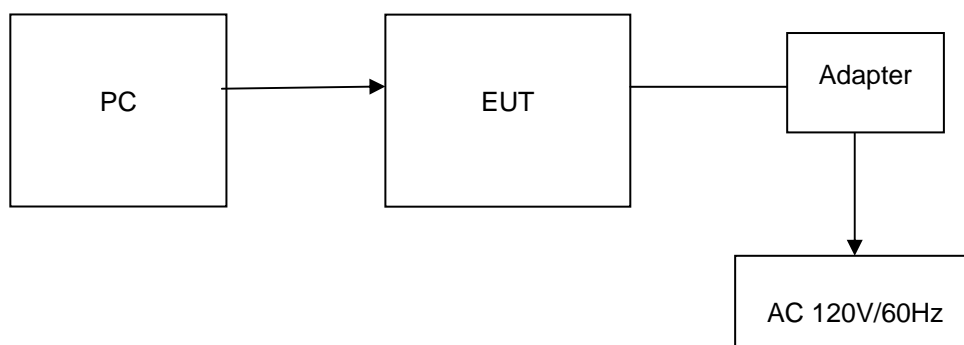
The EUT has been tested under typical operating condition.

### 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

1. The EUT is an Energy manager plus, The functions of the EUT listed as below:

	Test Standards	Reference Report
Zigbee	FCC Part 15 Subpart C (Section15.247)	TRE 1305000901
USB Port	FCC PART 15 Subpart B	TRE 1305000902
MPE	OET 65C	TRE 1305000903

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

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
Zigbee	√	—	—	—

3. The EUT provides one completed transmitter and receiver.

Modulation Mode	TX Function
Zigbee	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: 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:	<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	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

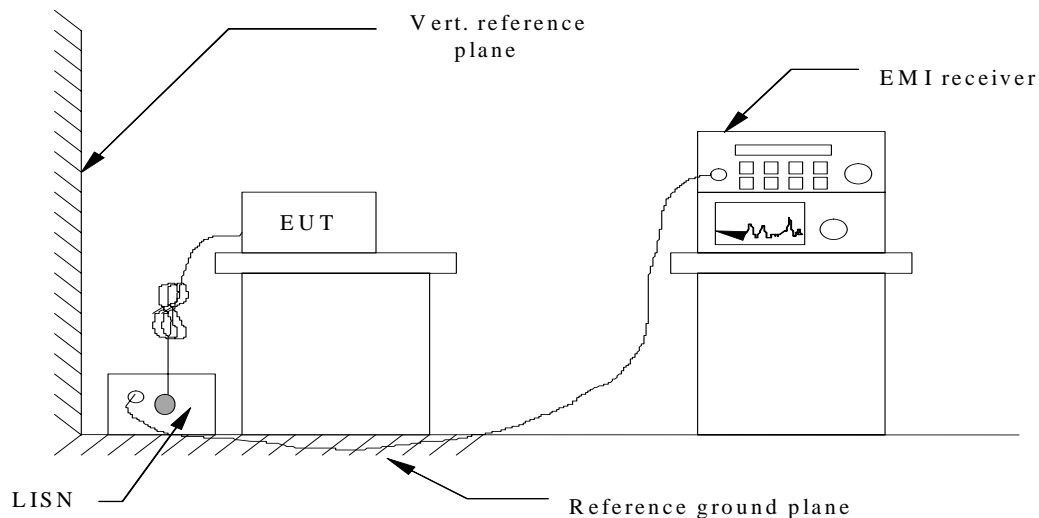
Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	Rohde & Schwarz	HL562	100015	2012/10/27
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2012/10/27
3	RF TEST PANEL	Rohde & Schwarz	TS / RSP	335015/ 0017	2012/10/27
4	TURNTABLE	ETS	2088	2149	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	Amplifer	Sonoma	310N	E009-13	2012/10/27
9	JS amplifer	Rohde & Schwarz	JS4-00101800-28-5A	F201504	2012/10/27
10	High pass filter	Compliance Direction systems	BSU-6	34202	2012/10/27
11	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	539	2012/10/27
12	HORN ANTENNA	ShwarzBeck	9120D	1011	2012/10/27
13	TURNTABLE	MATURO	TT2.0	----	2012/10/27
14	ANTENNA MAST	MATURO	TAM-4.0-P	----	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 :

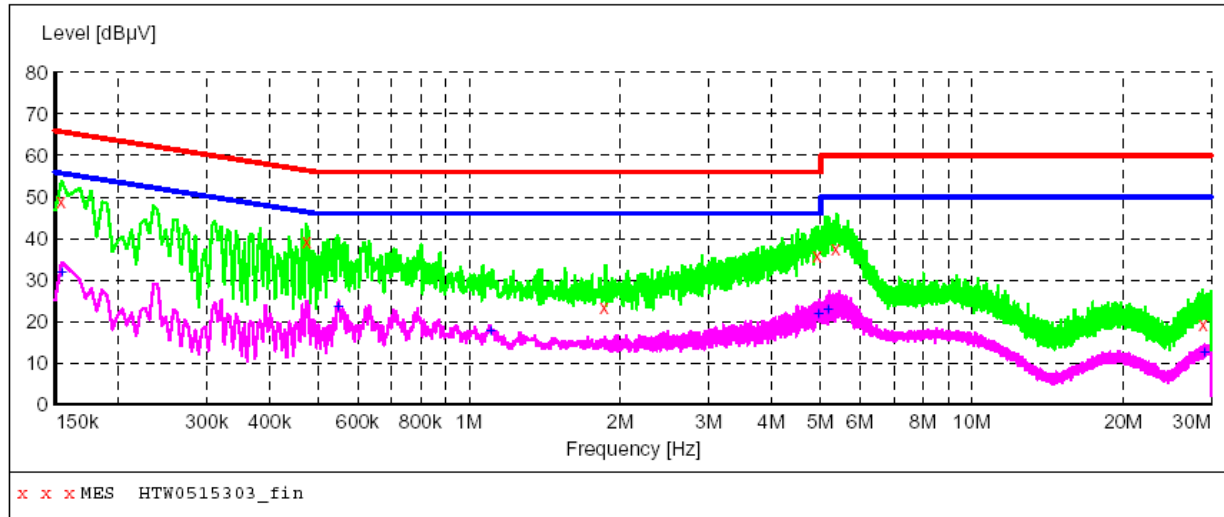
Frequency (MHz)	Maximum RF Line Voltage (dB $\mu$ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

**TEST RESULTS**

Remark: We test all conditions and recorded worst case at USB Flask Disk+RJ45+USB test mode.

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW0515303\_fin"**

5/15/2013 8:28AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	48.80	10.2	66	17.0	QP	N	GND
0.474000	39.10	10.2	56	17.3	QP	N	GND
1.851000	23.30	10.3	56	32.7	QP	N	GND
4.920000	35.70	10.4	56	20.3	QP	N	GND
5.347500	37.70	10.4	60	22.3	QP	N	GND
28.851000	19.20	11.2	60	40.8	QP	N	GND

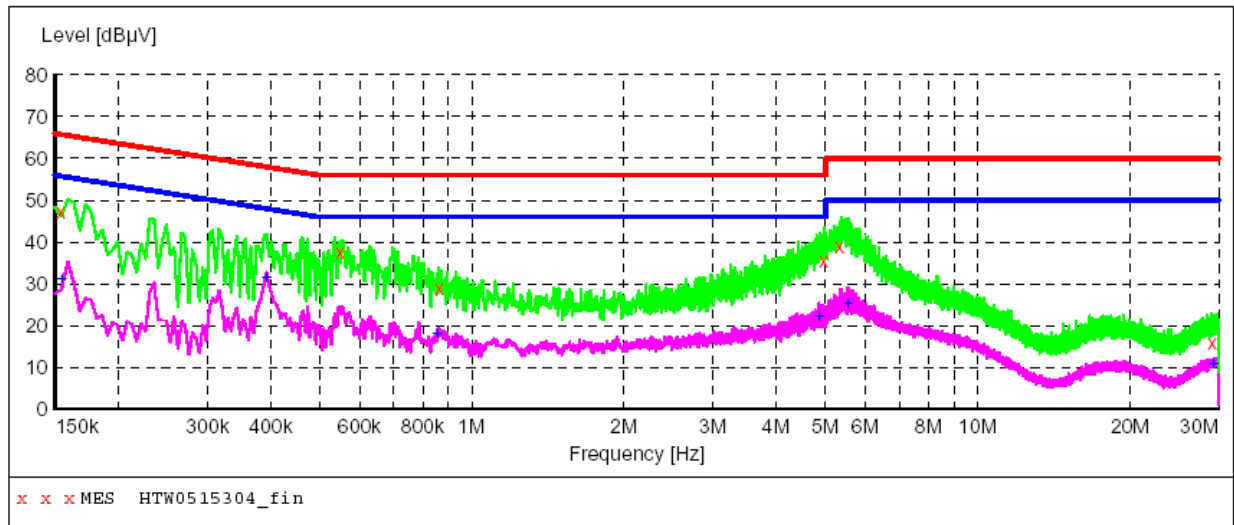
**MEASUREMENT RESULT: "HTW0515303\_fin2"**

5/15/2013 8:28AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	32.00	10.2	56	23.8	AV	N	GND
0.550500	23.80	10.2	46	22.2	AV	N	GND
1.104000	18.00	10.3	46	28.0	AV	N	GND
4.969500	21.90	10.4	46	24.1	AV	N	GND
5.185500	23.10	10.4	50	26.9	AV	N	GND
29.103000	12.90	11.2	50	37.1	AV	N	GND

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW0515304\_fin"**

5/15/2013 8:31AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	47.20	10.2	66	18.6	QP	L1	GND
0.550500	37.60	10.2	56	18.4	QP	L1	GND
0.861000	28.90	10.2	56	27.1	QP	L1	GND
4.960500	35.30	10.4	56	20.7	QP	L1	GND
5.338500	39.00	10.4	60	21.0	QP	L1	GND
29.112000	15.80	11.2	60	44.2	QP	L1	GND

**MEASUREMENT RESULT: "HTW0515304\_fin2"**

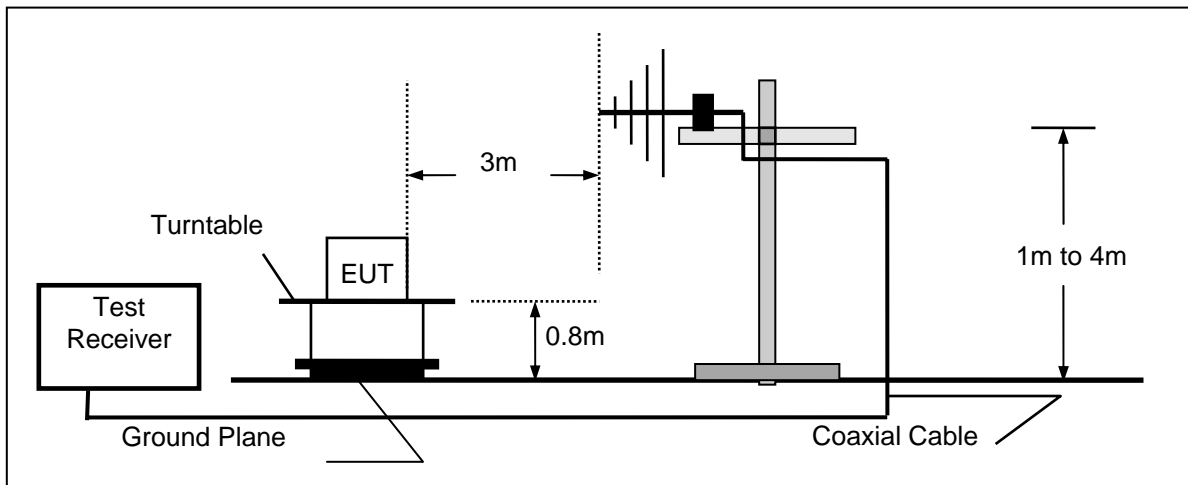
5/15/2013 8:31AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	31.30	10.2	56	24.5	AV	L1	GND
0.393000	31.60	10.2	48	16.4	AV	L1	GND
0.856500	18.20	10.2	46	27.8	AV	L1	GND
4.861500	22.40	10.4	46	23.6	AV	L1	GND
5.559000	25.40	10.4	50	24.6	AV	L1	GND
29.319000	11.10	11.3	50	38.9	AV	L1	GND

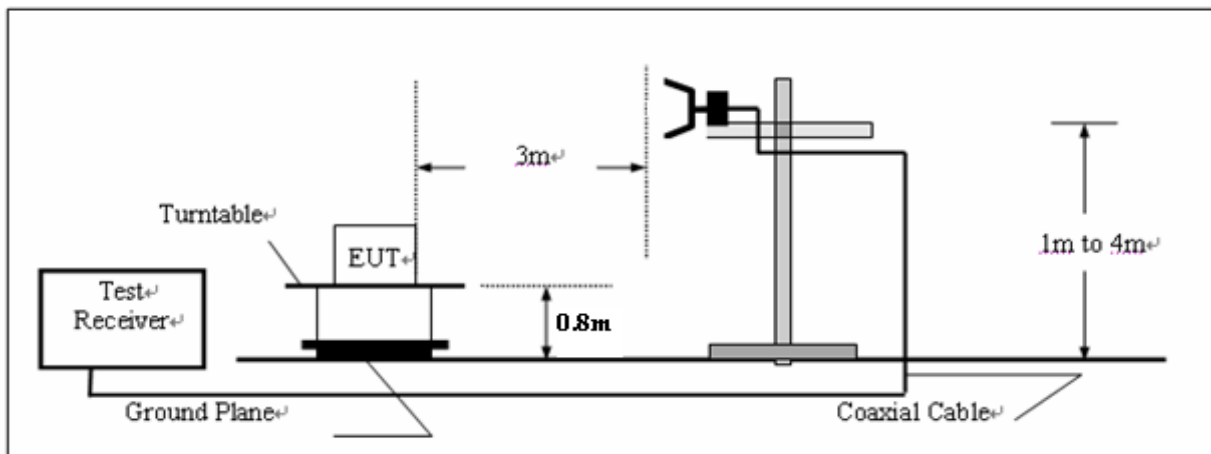
## 4.2. Radiated Emission

### 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 (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**

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

**TEST RESULTS**

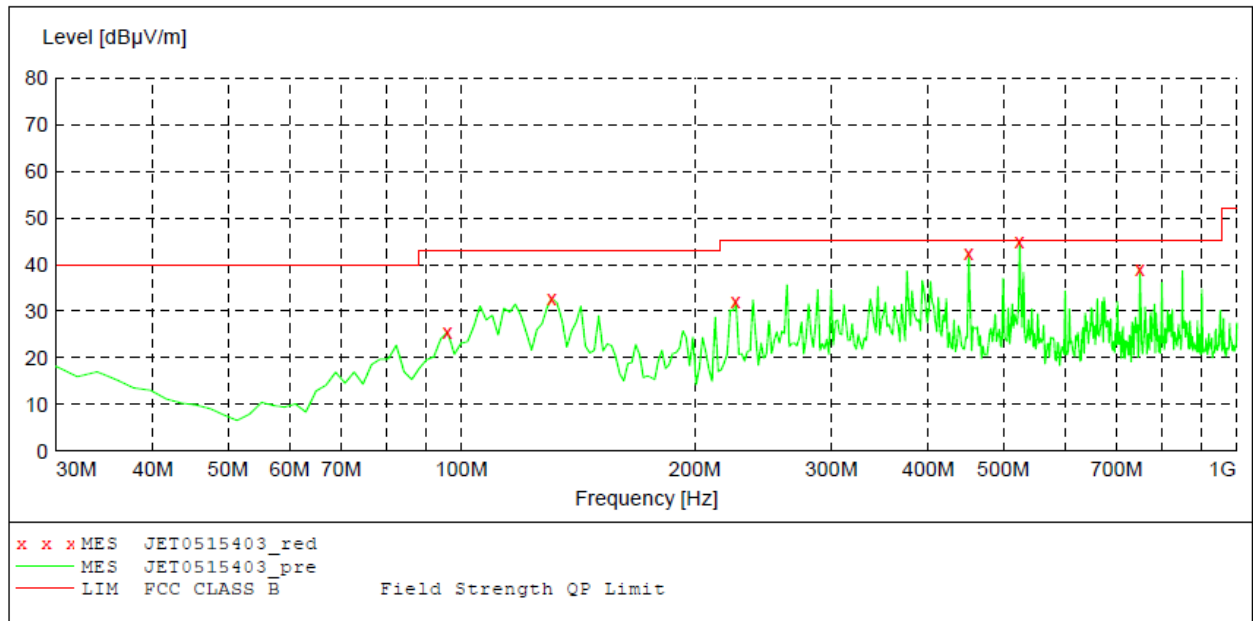
*Remark: We test all conditions and recorded worst case at USB Flask Disk+RJ45+USB test mode.*

***below 1GHz***

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

Short Description: Field Strength (30M-1G)

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 30.0 MHz	Frequency 1.0 GHz	Width 60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562

**MEASUREMENT RESULT: "JET0515403\_fin"**

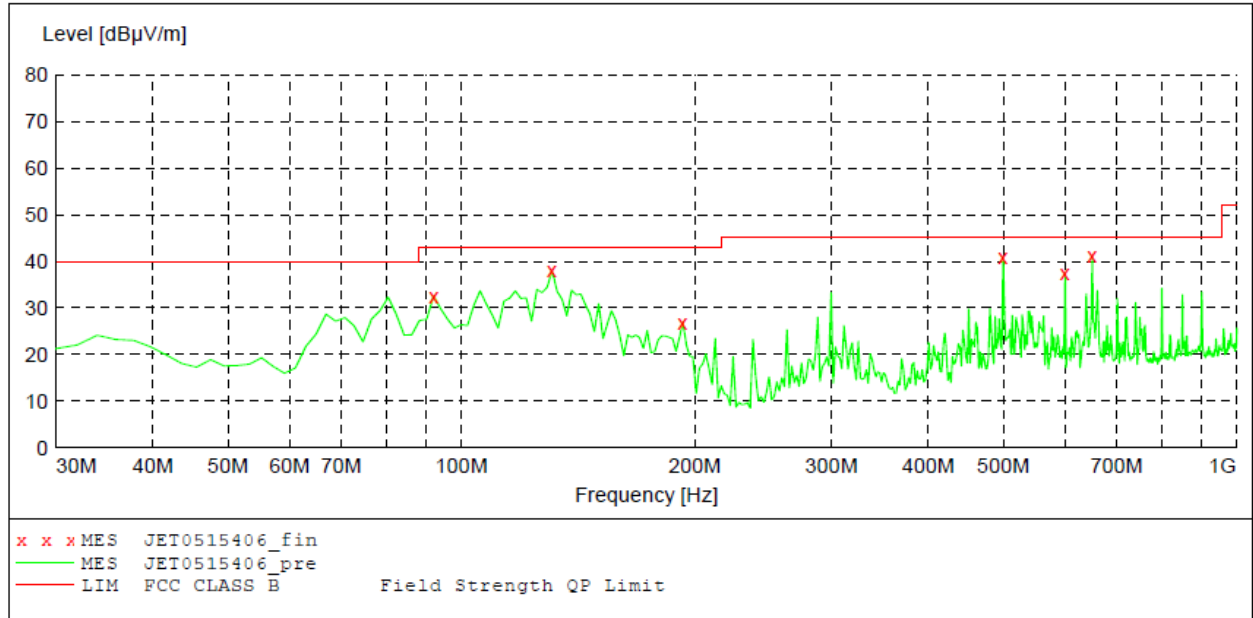
5/15/2013 1:01PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
95.960000	25.50	-20.4	43.5	18.0	QP	300.0	185.00	HORIZONTAL
130.880000	32.70	-21.1	43.5	10.8	QP	300.0	160.00	HORIZONTAL
225.940000	32.10	-20.9	46.0	13.9	QP	100.0	211.00	HORIZONTAL
450.980000	42.40	-15.6	46.0	3.6	QP	100.0	57.00	HORIZONTAL
524.700000	44.90	-14.3	46.0	1.1	QP	100.0	291.00	HORIZONTAL
749.740000	39.20	-11.7	46.0	6.8	QP	100.0	175.00	HORIZONTAL

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

Short Description: Field Strength (30M-1G)

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562

**MEASUREMENT RESULT: "JET0515406\_fin"**

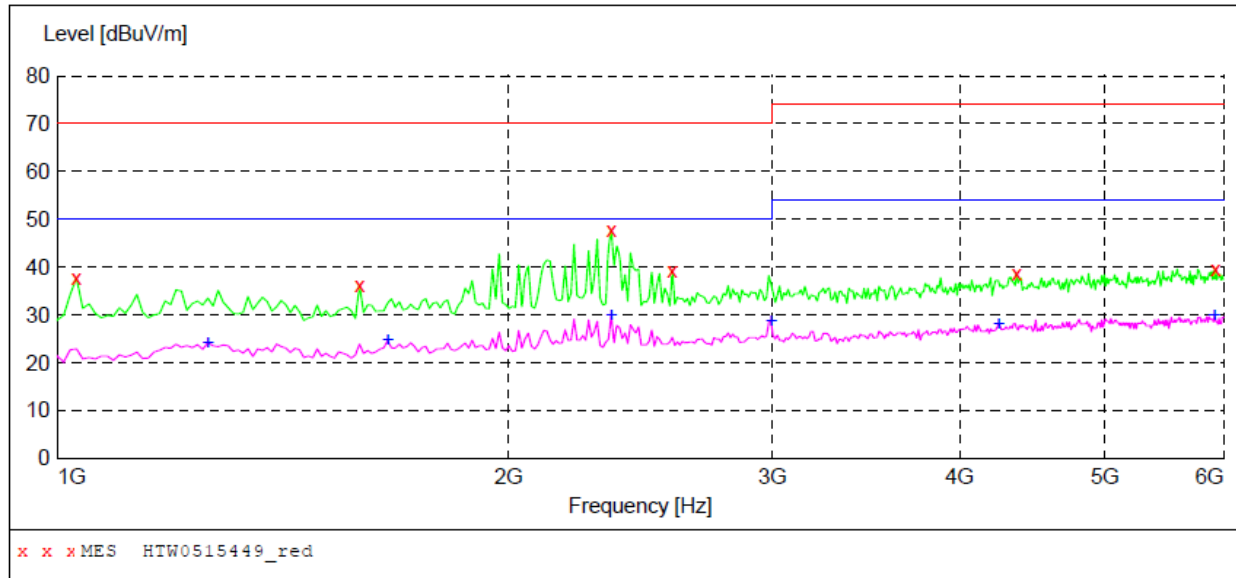
5/15/2013 1:10PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
92.080000	32.60	-20.6	43.5	10.9	QP	100.0	294.00	VERTICAL
130.880000	38.00	-21.1	43.5	5.5	QP	100.0	294.00	VERTICAL
192.960000	27.00	-22.8	43.5	16.5	QP	100.0	0.00	VERTICAL
499.480000	41.00	-14.9	46.0	5.0	QP	100.0	192.00	VERTICAL
600.360000	37.50	-13.9	46.0	8.5	QP	100.0	87.00	VERTICAL
650.800000	41.10	-11.7	46.0	4.9	QP	100.0	129.00	VERTICAL



**Above 1GHz****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: "HTW0515449\_red"**

5/15/2013 6:23PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1030.060120	37.70	-9.8	70.0	32.3	PK	100.0	10.00	VERTICAL
1591.182365	36.20	-8.4	70.0	33.8	PK	100.0	1.00	VERTICAL
2342.685371	47.70	-5.1	70.0	22.3	PK	100.0	10.00	VERTICAL
2573.146293	39.20	-5.0	70.0	30.8	PK	100.0	10.00	VERTICAL
4366.733467	38.80	0.8	74.0	35.2	PK	100.0	0.00	VERTICAL
5929.859719	39.70	4.3	74.0	34.3	PK	100.0	0.00	VERTICAL

**MEASUREMENT RESULT: "HTW0515449\_red2"**

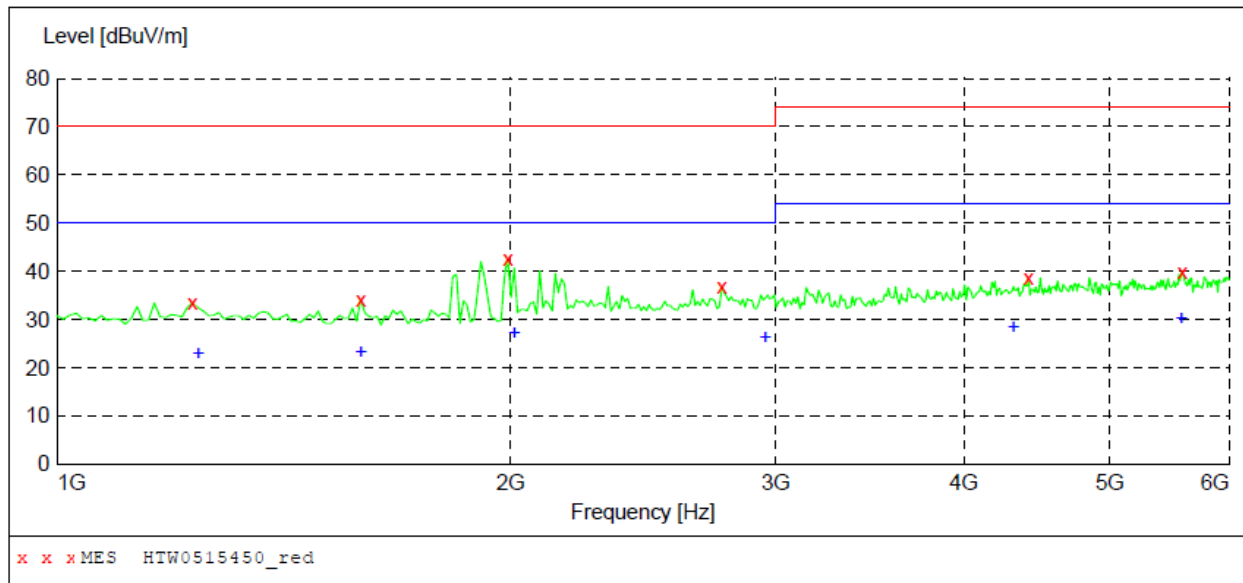
5/15/2013 6:23PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1260.521042	24.20	-8.3	50.0	25.8	AV	100.0	10.00	VERTICAL
1661.322645	24.60	-8.4	50.0	25.4	AV	100.0	7.00	VERTICAL
2342.685371	29.90	-5.1	50.0	20.1	AV	100.0	0.00	VERTICAL
2993.987976	28.70	-3.3	50.0	21.3	AV	100.0	0.00	VERTICAL
4246.492986	28.20	0.3	54.0	25.8	AV	100.0	7.00	VERTICAL
5919.839679	29.80	4.3	54.0	24.2	AV	100.0	0.00	VERTICAL

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

Short Description: Field Strength(1G-6G)

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	500.0 kHz	Average	1.0 s	1 MHz	HF906

**MEASUREMENT RESULT: "HTW0515450\_red"**

5/14/2013 6:24PM

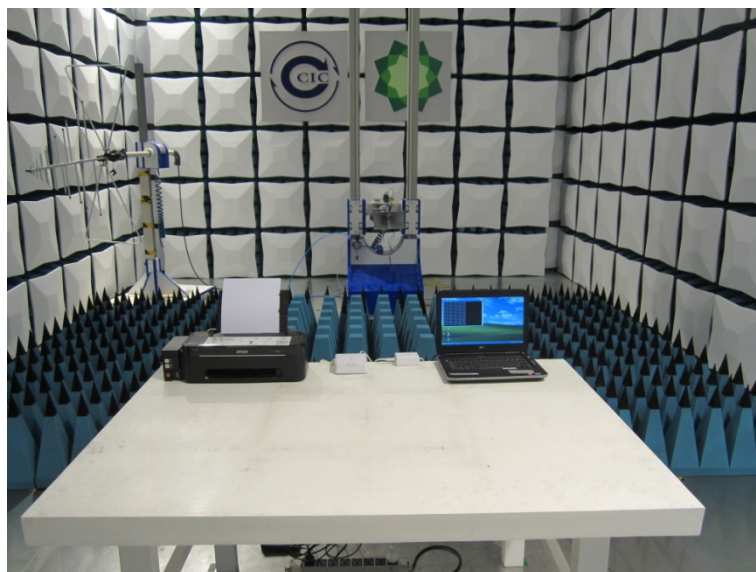
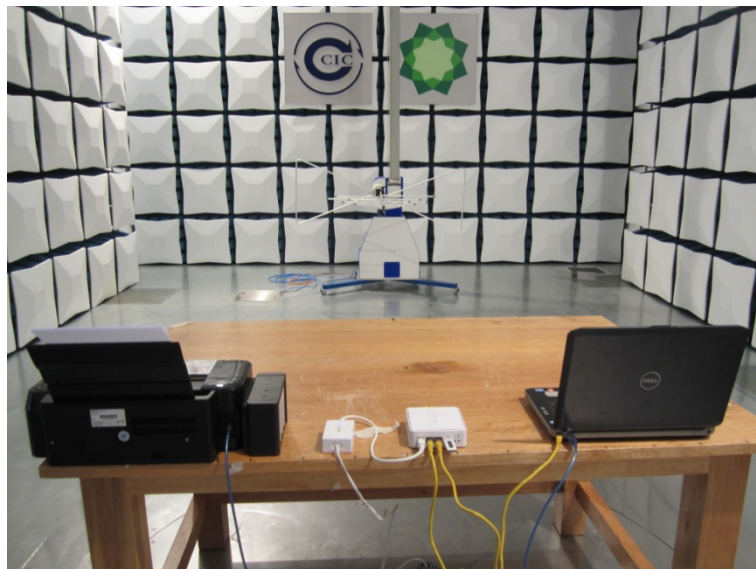
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1230.460922	33.50	-8.6	70.0	36.5	PK	100.0	3.00	HORIZONTAL
1591.182365	34.20	-8.4	70.0	35.8	PK	100.0	0.00	HORIZONTAL
1991.983968	42.60	-7.2	70.0	27.4	PK	100.0	0.00	HORIZONTAL
2763.527054	36.90	-4.0	70.0	33.1	PK	100.0	0.00	HORIZONTAL
4416.833667	38.60	0.9	74.0	35.4	PK	100.0	9.00	HORIZONTAL
5589.178357	39.80	3.5	74.0	34.2	PK	100.0	0.00	HORIZONTAL

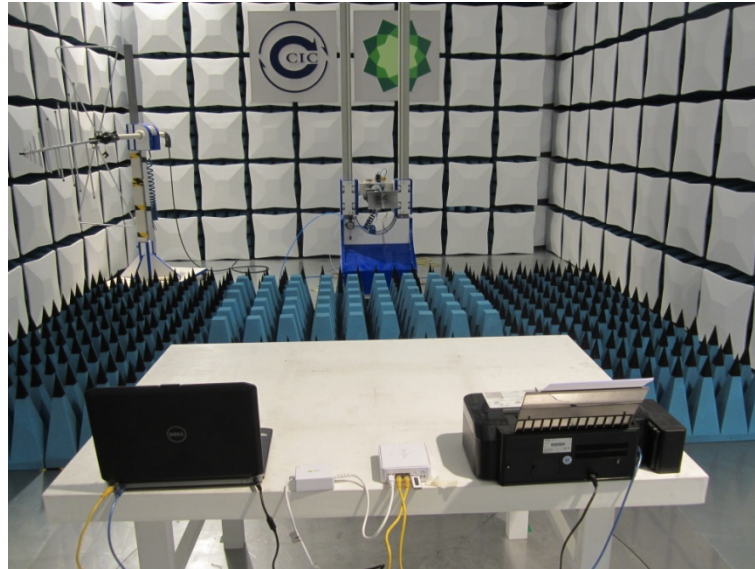
**MEASUREMENT RESULT: "HTW0515450\_red2"**

5/15/2013 6:24PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1240.480962	23.00	-8.5	50.0	27.0	AV	100.0	0.00	HORIZONTAL
1591.182365	23.20	-8.4	50.0	26.8	AV	100.0	0.00	HORIZONTAL
2012.024048	27.10	-7.0	50.0	22.9	AV	100.0	9.00	HORIZONTAL
2953.907816	26.40	-3.3	50.0	23.6	AV	100.0	0.00	HORIZONTAL
4316.633267	28.50	0.6	54.0	25.5	AV	100.0	0.00	HORIZONTAL
5579.158317	30.10	3.5	54.0	23.9	AV	100.0	0.00	HORIZONTAL

## 5. Test Setup Photos of the EUT





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