

# Shenzhen Yupin Technology Co., Ltd

dianxiaobao

**Main Model: UP1**  
**Serial Model: N/A**

**November 26, 2013**

**Report No.: 13070481-FCC-E1-18**

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

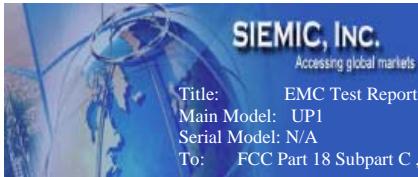
David Huang	Alex Liu	
David Huang Compliance Engineer	Alex Liu Technical Manager	

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Test result presented in this test report is applicable to the representative sample only.

**EMC Test Report**

FCC Part 18 Subpart C, FCC Measurement Procedure MP-5 (1986)

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Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
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Taiwan	EMC, RF, Telecom , Safety
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Australia	EMC, RF, Telecom , Safety
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Main Model: UPI  
Serial Model: N/A  
To: FCC Part 18 Subpart C, FCC Measurement Procedure MP-5 (1986)

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## **1 EXECUTIVE SUMMARY & EUT INFORMATION**

**The purpose of this test programmer was to demonstrate compliance of the Shenzhen Yupin Technology Co., Ltd, dianxiaobao and Model: UP1 against the current Stipulated Standards. The dianxiaobao has demonstrated compliance with the FCC Part 18 Subpart C, FCC Measurement Procedure MP-5 (1986).**

### **EUT Information**

**EUT Description** : dianxiaobao

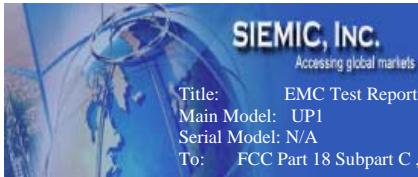
**Main Model** : UP1

**Serial Model** : N/A

**Input Power** : DC 5V 2.0 A

**Antenna Type** : Coil antenna

**Classification Per Stipulated Test Standard** : Non-ISM frequency  
FCC Part 18 Subpart C : 2013, FCC Measurement Procedure MP-5 (1986)



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## 2 TECHNICAL DETAILS

Purpose	Compliance testing of dianxiaobao with stipulated standards
Applicant / Client	Shenzhen Yupin Technology Co.,Ltd 4th Floor, Building Two, Dongpeng Industrial Park, Second Industrial District, Mabu New Village, Shiyuan Street, Shenzhen City
Manufacturer	Shenzhen Yupin Technology Co.,Ltd 4th Floor, Building Two, Dongpeng Industrial Park, Second Industrial District, Mabu New Village, Shiyuan Street, Shenzhen City
Laboratory performing the tests	SIEMIC (Shenzhen-China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-0755-2601 4629 / 2601 4953 Fax: +86-0755-2601 4953-810 Email: China@siemic.com.cn
Test report reference number	13070481-FCC-E1-18
Date EUT received	November 04, 2013
Standard applied	FCC Part 18 Subpart C, FCC Measurement Procedure MP-5 (1986)
Dates of test (from – to)	November 11 to November 16, 2013
No of Units	#1
Equipment Category	Non-ISM frequency
Trade Name	Power Partner
RF Operating Frequency (ies)	110 kHz – 205 kHz
FCC ID	2ABGM-UPW001



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### **3 MODIFICATION**

**NONE**



## 4 TEST SUMMARY

The product was tested in accordance with the following specifications.  
All testing has been performed according to below product classification:

### Non-ISM frequency

#### Test Results Summary

Emissions			
Test Standard	Description	Product Class	Pass / Fail
FCC Part 18 Subpart C, FCC Measurement Procedure MP-5 (1986)	Field strength	See Above	Pass
FCC Part 18 Subpart C, FCC Measurement Procedure MP-5 (1986)	Conducted Emissions	See Above	Pass

All measurement uncertainty is not taken into consideration for all presented test result.



## **5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS**

## **5.1 Field Strength Test Result (Section 18.305)**

Note:

## Test Result: Pass

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<b>Test Mode:</b>	<b>Operating Frequency: 155.66 kHz</b>
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### Fundamental Test Data

Freq.(kHz)	Reading (dBuV)	Limit (dBuV/m)	Margin (dBuV/m)	Detect Mode
155.66	74.5	103.52	-29.02	Quasi-peak

### Spurious Test Data

Freq.(kHz)	Reading (dBuV)	Limit (dBuV/m)	Margin (dBuV/m)	Detect Mode
111.00	37.5	103.52	-66.02	Quasi-peak
472.52	51.8	103.52	-51.72	Quasi-peak

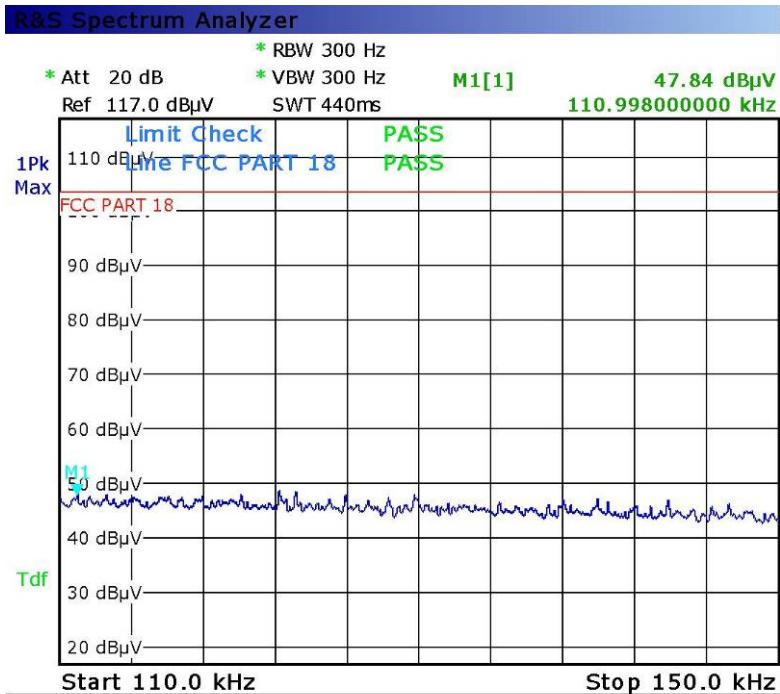
Note: For operating non-ISM frequency equipment, the field strength limit of 300 meters distance is 15uV/m.

Measurement distance: 3 meters;

For 300m , distance correction factor=40\*log(300/3)=80dB;

So, the strength limit of 3 meters distance= 20 log 15+40\*log(300/3)=103.52dBuV/m.

**Detector: PK Frequency band: 110 kHz - 150 kHz**



Date: 16.NOV.2013 02:04:34

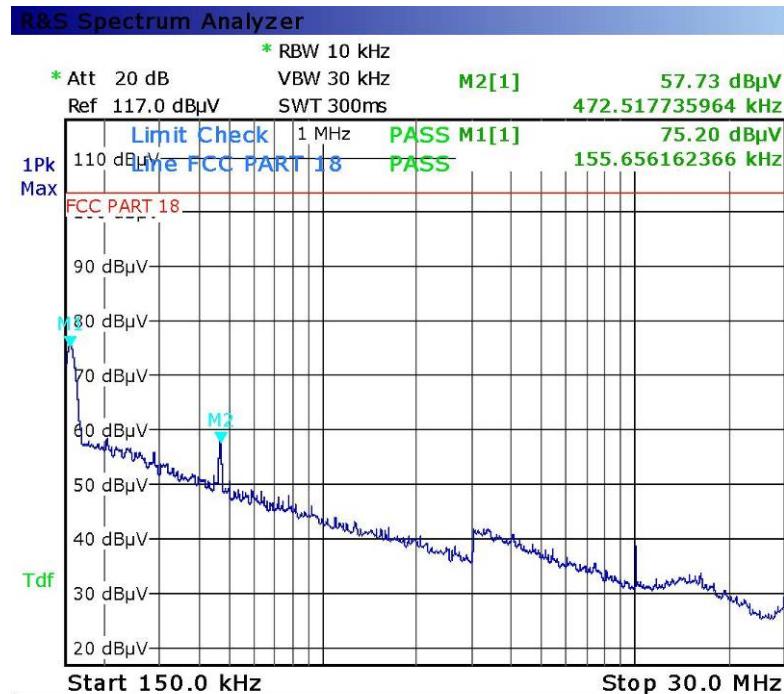


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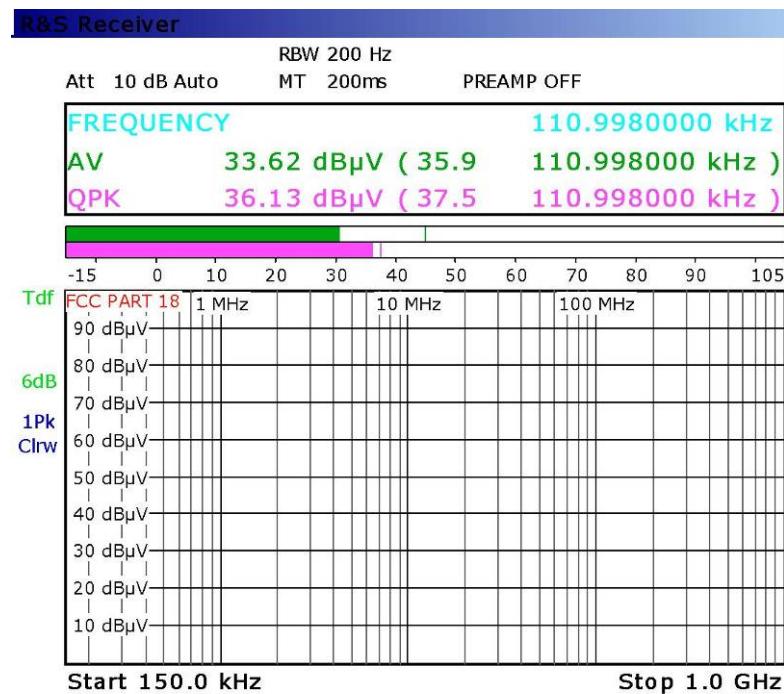
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## Detector: PK Frequency band: 150 kHz – 30 MHz



Date: 16.NOV.2013 06:41:48

## Detector: QP Frequency: 110 kHz - 150 kHz



Date: 16.NOV.2013 02:07:39

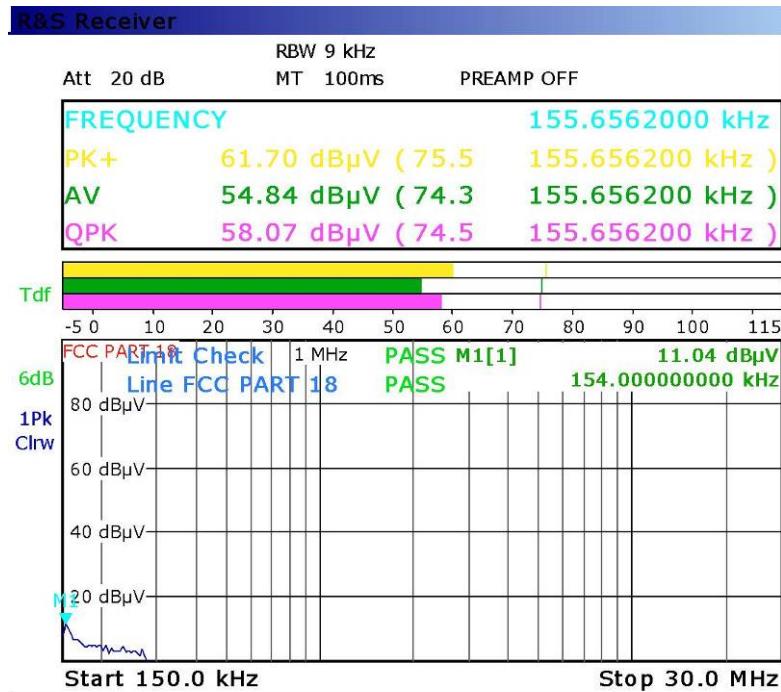


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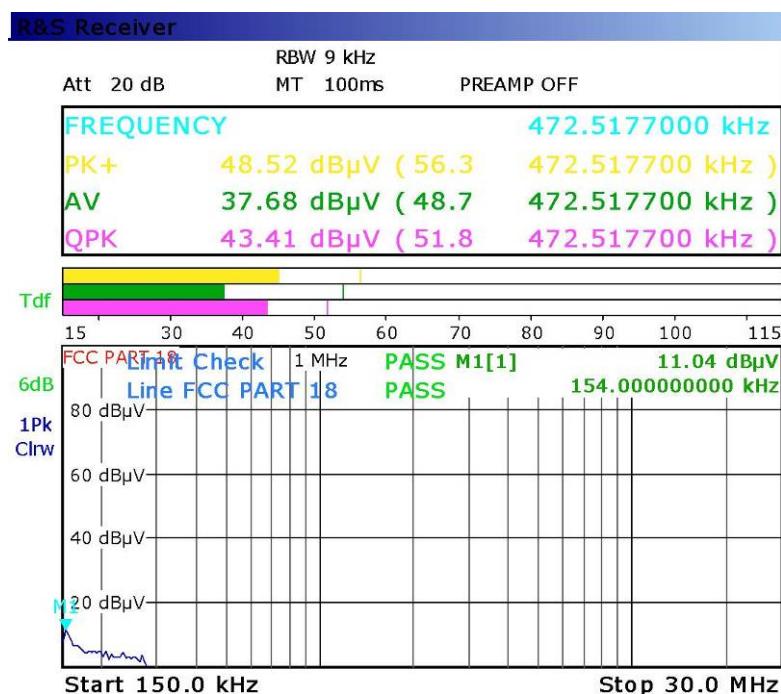
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### Detector: QP Frequency: 150 kHz – 30 MHz



Date: 16.NOV.2013 06:44:07



Date: 16.NOV.2013 06:46:32



## **5.2 Conducted Emissions Test Result (Section18.307)**

*Note:*

1. All possible modes of operation were investigated. Only the several worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is  $\pm 3.86\text{dB}$ .
4. Environmental Conditions      Temperature      20°C  
    Relative Humidity      50%  
    Atmospheric Pressure      1009mbar
5. Test date : November 12, 2013  
Tested By : David Huang

### **Test Result: Pass**



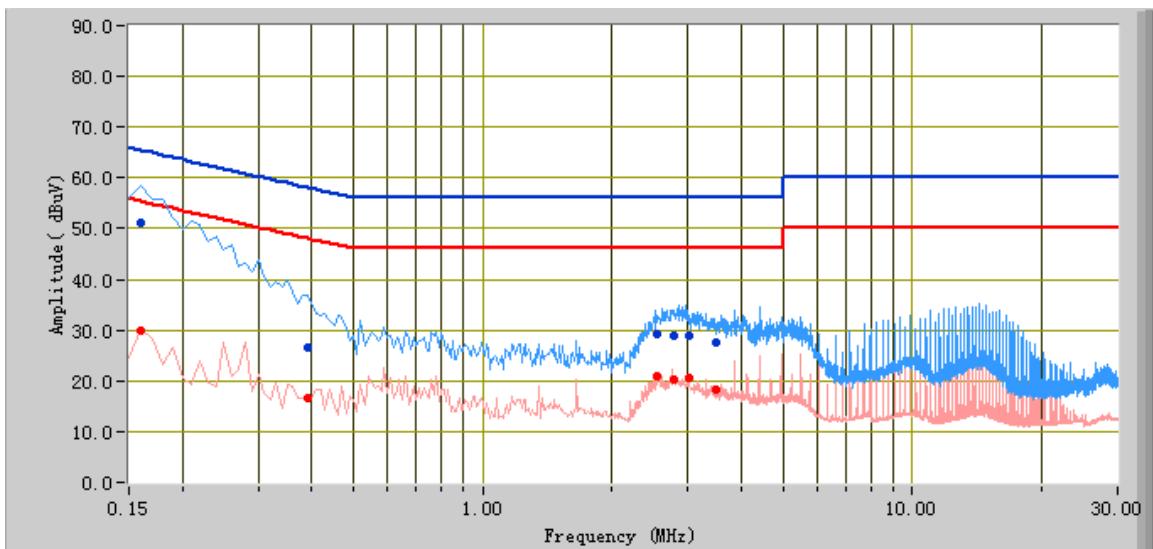
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**Test Mode:** Operating Frequency 155.66 kHz

Peak Detector Quasi Peak Limit   
Average Detector Average Limit



### Test Data

#### Phase Line Plot at 120V AC, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.16	51.00	65.47	-14.46	29.97	55.47	-25.50	10.10
0.39	26.58	58.06	-31.48	16.69	48.06	-31.37	10.10
2.78	29.01	56.00	-26.99	20.22	46.00	-25.78	10.13
3.02	28.97	56.00	-27.03	20.44	46.00	-25.56	10.14
2.54	29.37	56.00	-26.63	20.98	46.00	-25.02	10.13
3.50	27.55	56.00	-28.45	18.24	46.00	-27.76	10.15



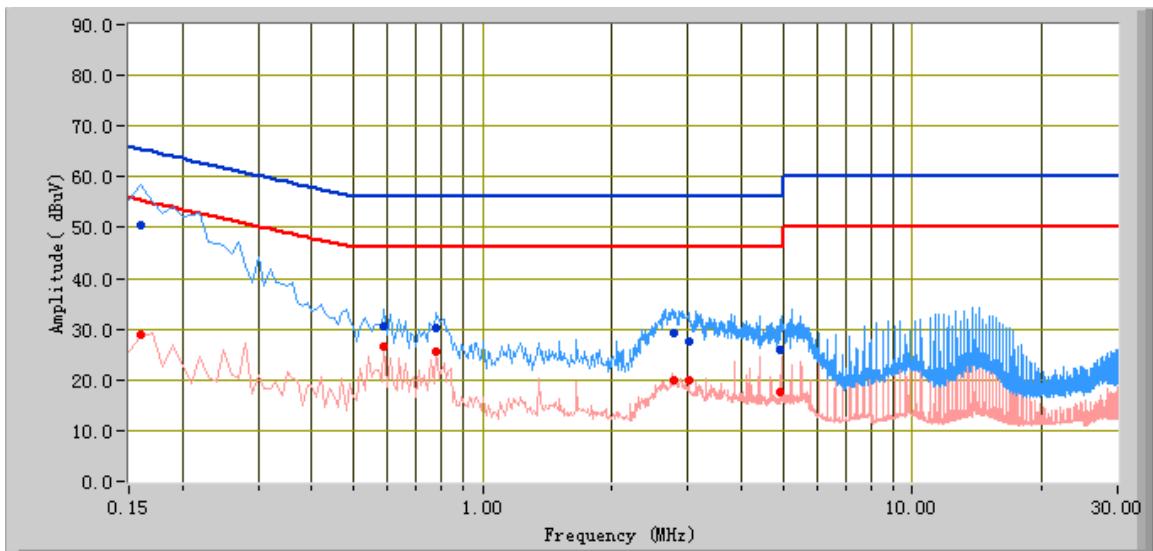
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**Test Mode: Operating Frequency 155.66 kHz**

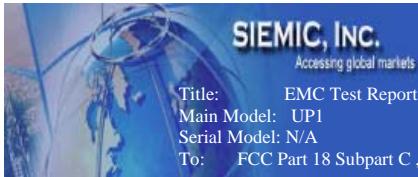
Peak Detector Quasi Peak Limit   
Average Detector Average Limit



### Test Data

#### Phase Natural Plot at 120V AC, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.16	50.62	65.47	-14.85	28.85	55.47	-26.61	10.10
0.59	30.66	56.00	-25.34	26.62	46.00	-19.38	10.10
0.78	30.37	56.00	-25.63	25.58	46.00	-20.42	10.10
2.78	29.26	56.00	-26.74	20.01	46.00	-25.99	10.13
3.02	27.67	56.00	-28.33	19.83	46.00	-26.17	10.14
4.94	25.97	56.00	-30.03	17.50	46.00	-28.50	10.18



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## Annex A. TEST INSTRUMENTATION & GENERAL PROCEDURES

### Annex A.i. TEST INSTRUMENTATION

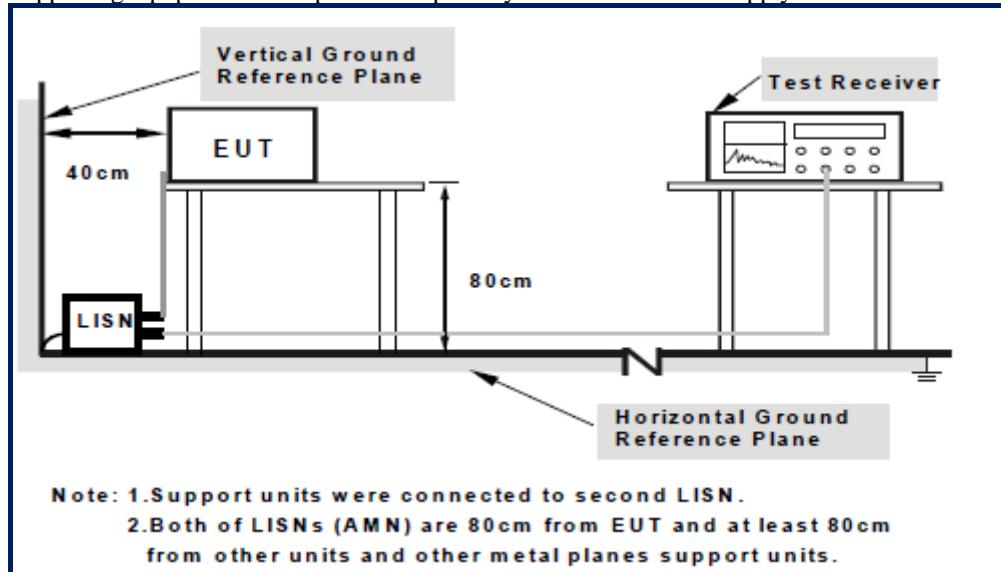
Instrument	Model	Serial #	Calibration Date	Calibration Due Date
<b>AC Line Conducted Emissions</b>				
EMI test receiver	ESL6	100262	11/19/2012	11/19/2013
Line Impedance Stabilization Network	LI-125A	191106	11/14/2013	11/13/2014
Line Impedance Stabilization Network	LI-125A	191107	11/14/2013	11/13/2014
Transient Limiter	LIT-153	531118	03/03/2013	03/02/2014
<b>Radiated Emissions</b>				
EMI test receiver	ESL6	100262	11/19/2012	11/19/2013
Positioning Controller	UC3000	MF78020828 2	11/19/2012	11/19/2013
OPT 010 AMPLIFIER(0.1-1300MHz)	8447E	2727A02430	11/19/2012	11/19/2013
Bilog Antenna (30MHz~6GHz)	JB6	A110712	01/27/2013	01/26/2014
Active loop (9kHz -30 MHz)	AL-130	121031	11/20/2012	11/20/2013



## **Annex A.ii. AC LINE CONDUCTED EMISSIONS TEST DESCRIPTION**

### **Test Set-up**

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.
2. The power supply for the EUT was fed through a  $50\Omega/50\mu\text{H}$  EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1

### **Test Method**

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

### **Description of Conducted Emission Program**

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.



## Sample Calculation Example

At 20 MHz limit = 250  $\mu$ V = 47.96 dB $\mu$ V

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB $\mu$ V  
(Calibrated for system losses)

Therefore, Q-P margin = 47.96 – 40.00 = 7.96 i.e. **7.96 dB below limit**



### **Annex A. iii. RADIATED EMISSIONS TEST DESCRIPTION**

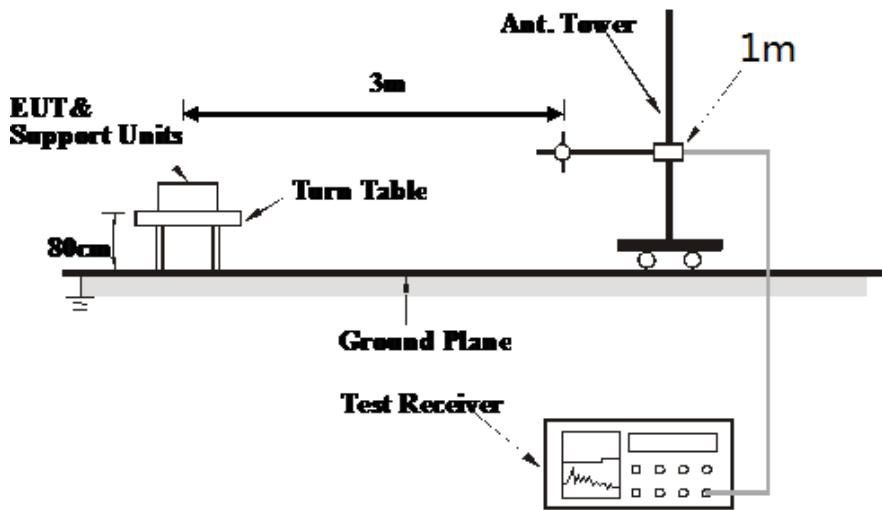
#### **EUT Characterization**

EUT characterisation, over the frequency range from 150KHz to 30 MHz, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8 m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred; clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or 3m EMC chamber.

#### **Test Set-up**

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5mX1.0mX0.8m high, non-conductive table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration2



## **Test Method**

The following procedure was performed to determine the maximum emission axis of EUT:

1. Rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

### **Final Radiated Emission Measurement**

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 30MHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on an open test site.
4. Change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured was complete.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

<b>Scope</b>	<b>IF</b>	<b>RBW</b>	<b>VBW</b>	<b>Sweep</b>
9KHz~150KHz	200Hz	200Hz	200Hz	Auto
150KHz~30MHz	9KHz	10KHz	30KHz	Auto

### **Sample Calculation Example**

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\begin{aligned} \text{Average} &= \text{Peak Value} + \text{Duty Factor} \text{ or} \\ &\text{Set RBW} = 1\text{MHz}, \text{VBW} = 10\text{Hz}. \end{aligned}$$

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below 30MHz. And the measuring instrument is set to quasi peak detector function.



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## **Annex B. EUT AND TEST SETUP PHOTOGRAPHS**

### **Annex B. i. Photograph 1: EUT External Photo (there are two colour for the EUT's appearance: black and colourful)**



Whole Package - Top View



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EUT - Top View(Black)



EUT - Bottom View(Black)



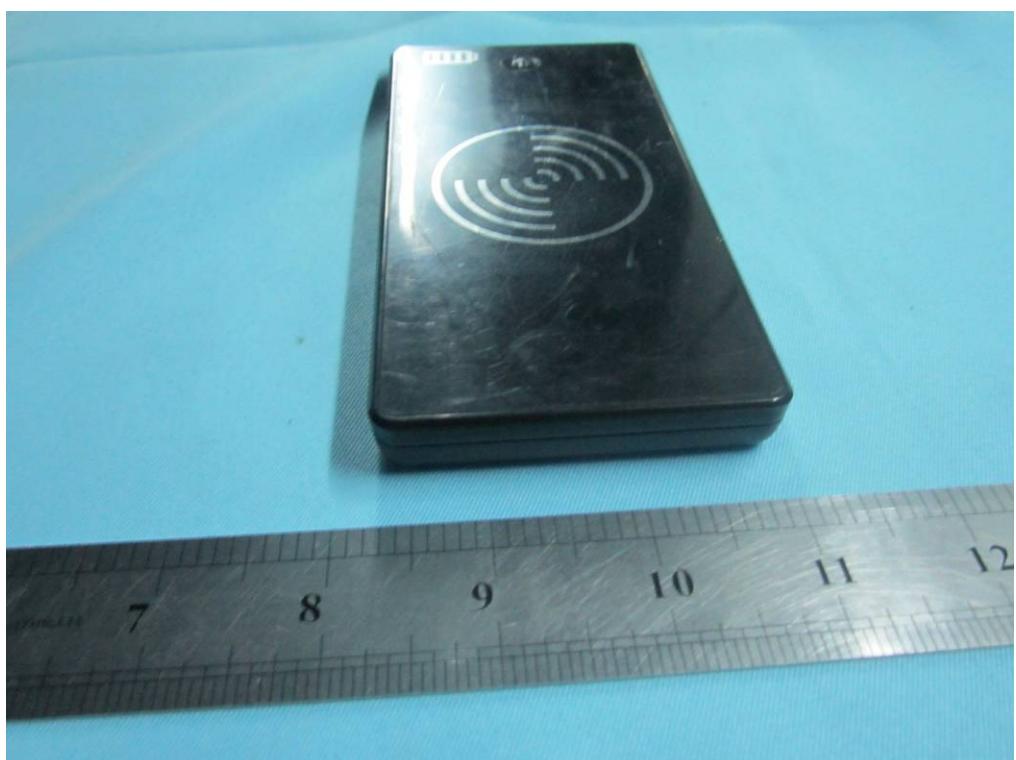
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EUT - Front View(Black)



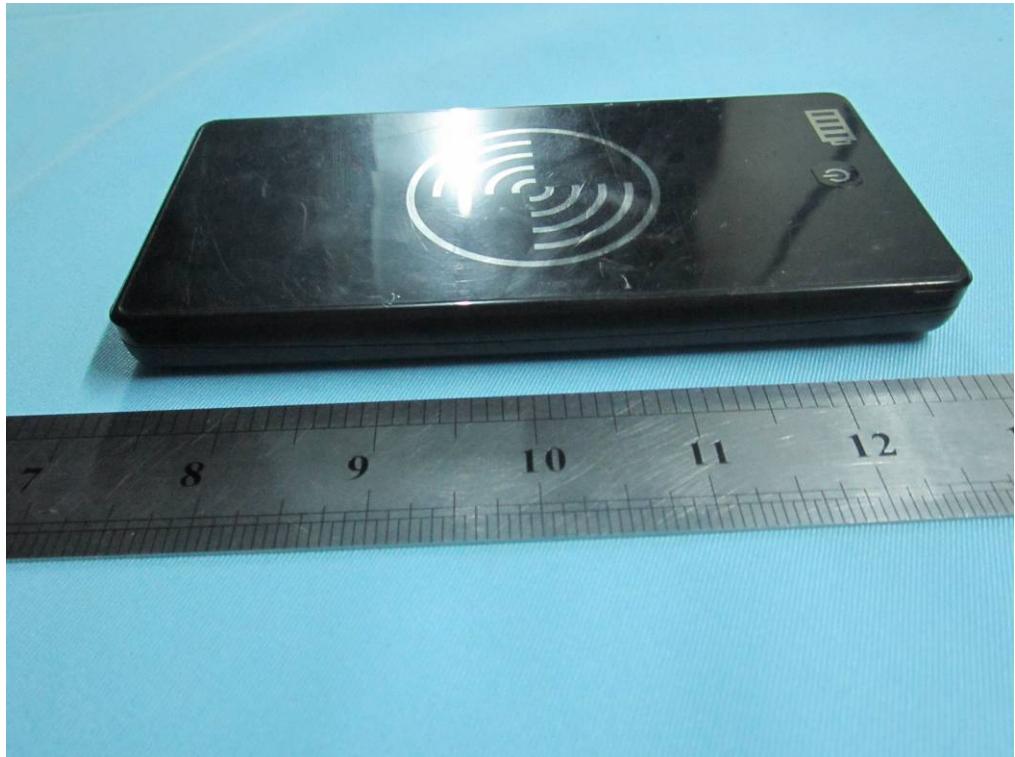
EUT - Rear View(Black)



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EUT - Left Side View(Black)



EUT - Right Side View(Black)



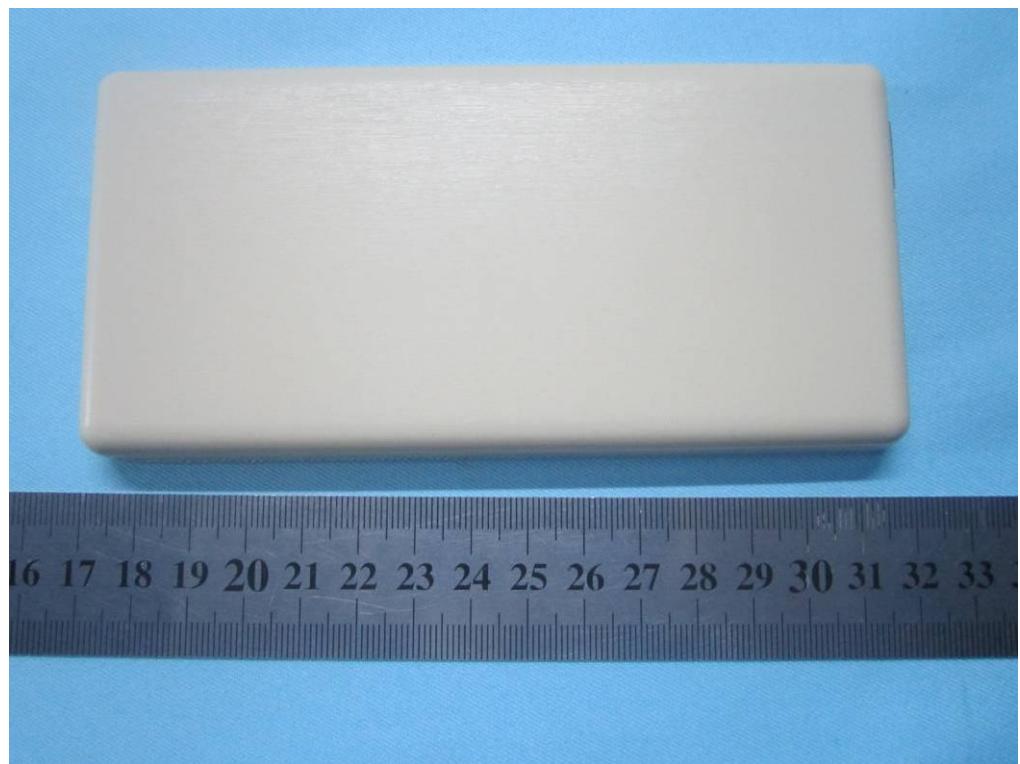
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EUT - Top View(Colourful)



EUT - Bottom View(Colourful)



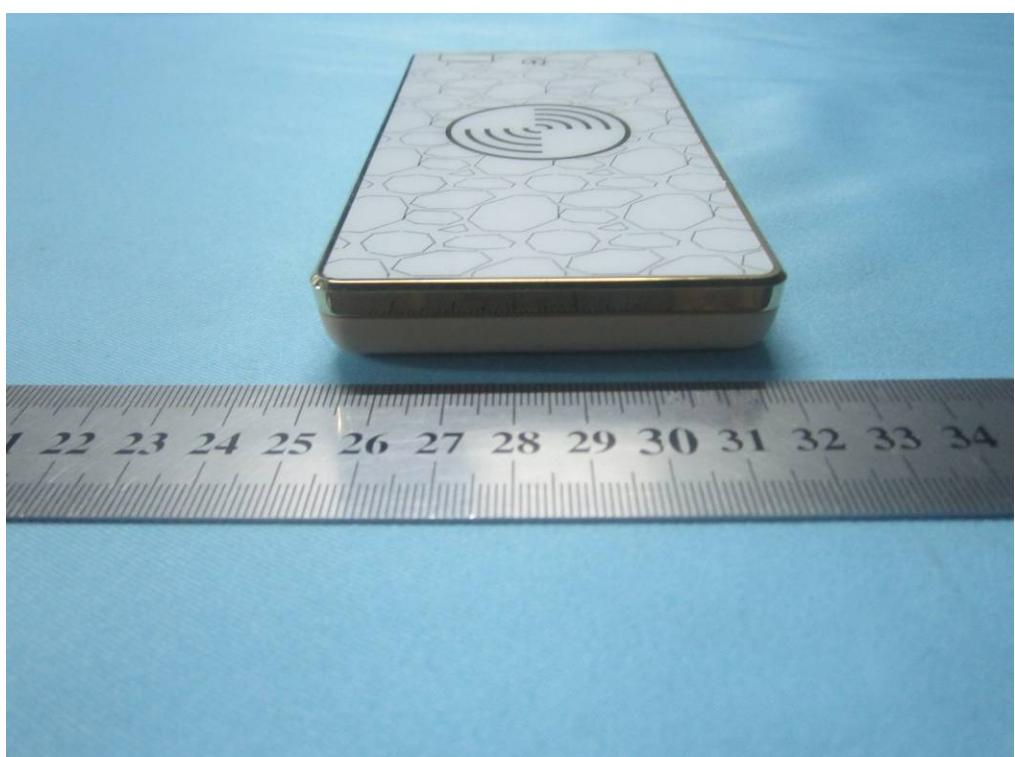
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EUT - Front View(Colourful)



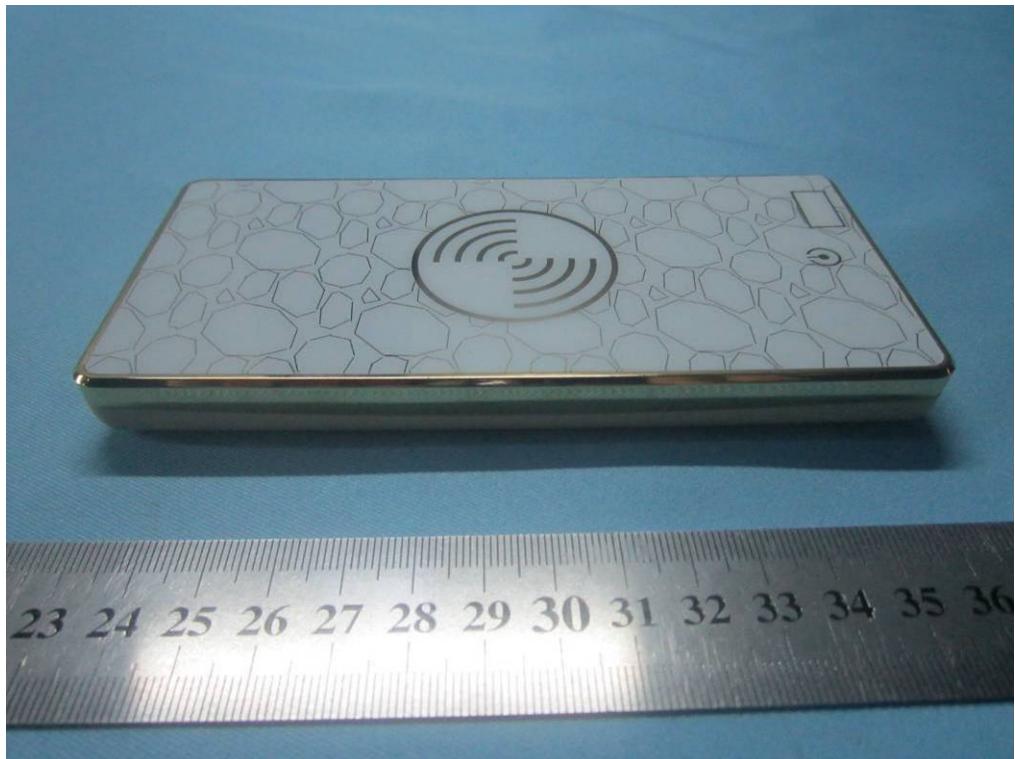
EUT - Rear View(Colourful)



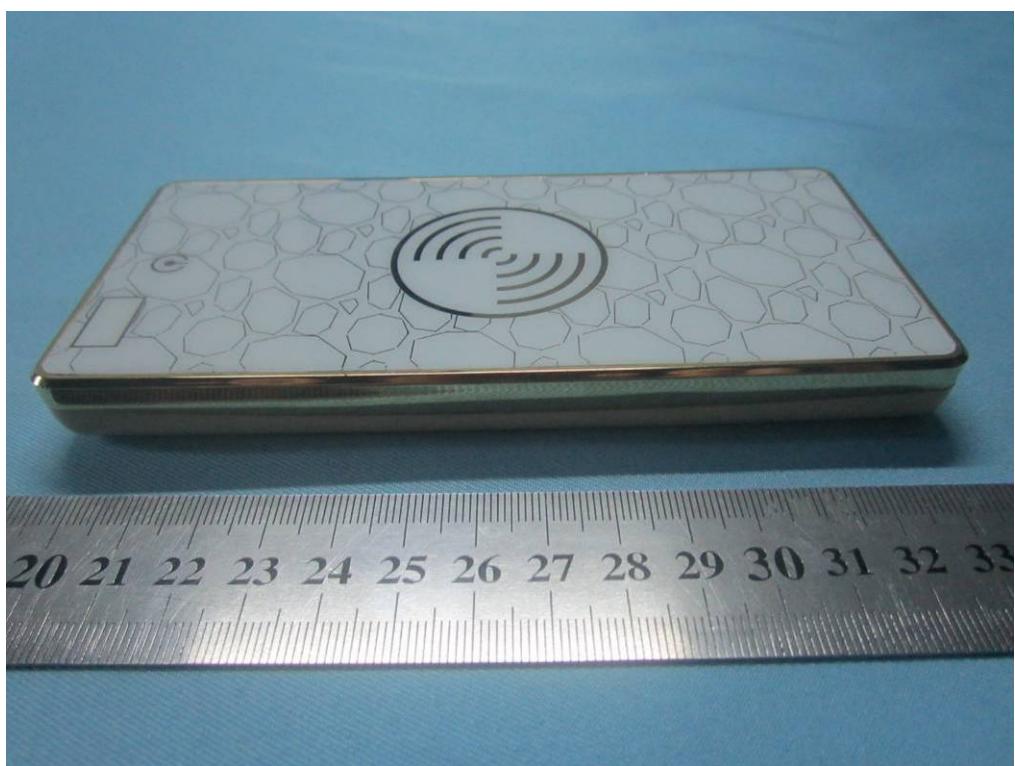
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EUT - Left Side View(Colourful)



EUT - Right Side View(Colourful)

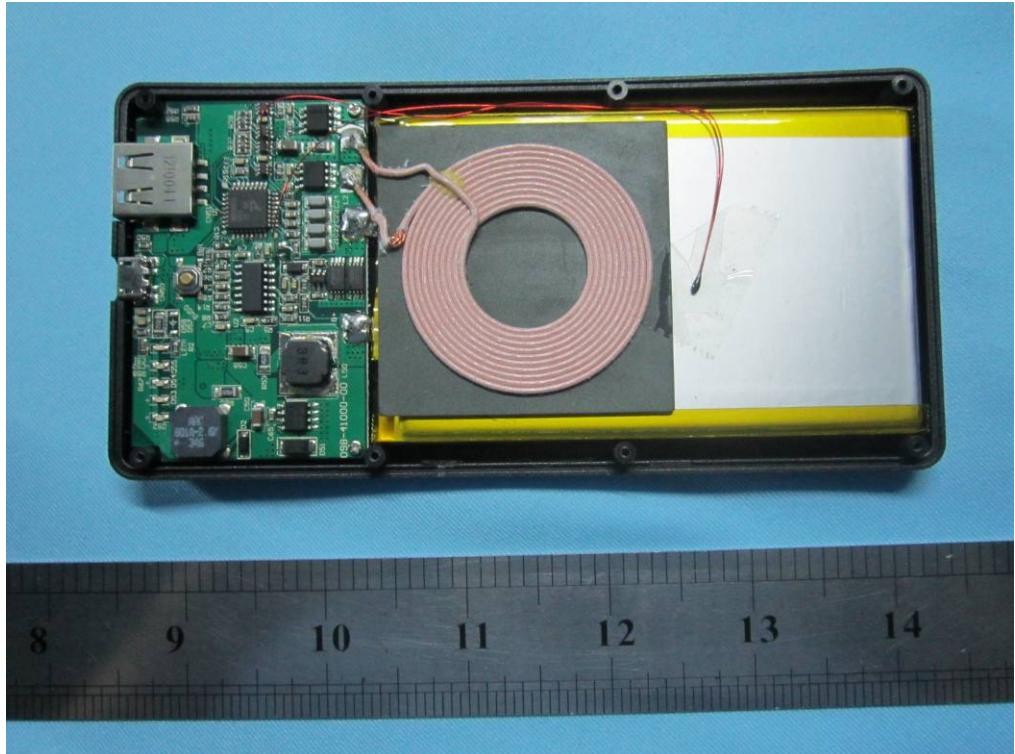


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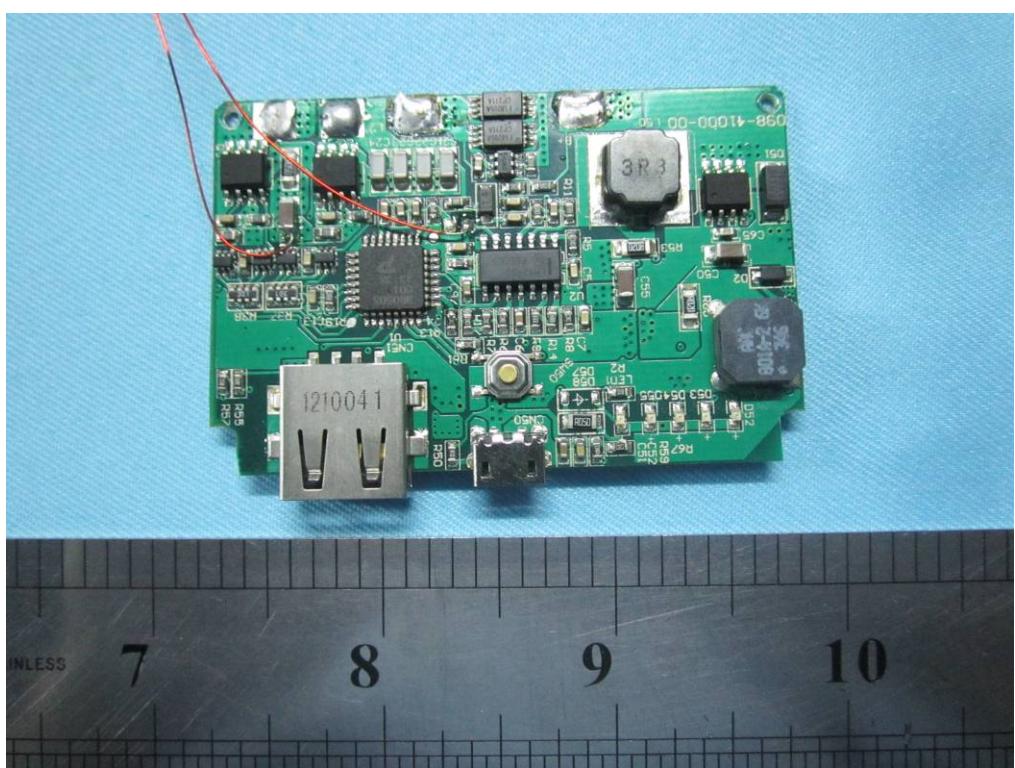
Title: EMC Test Report for dianxiaobao  
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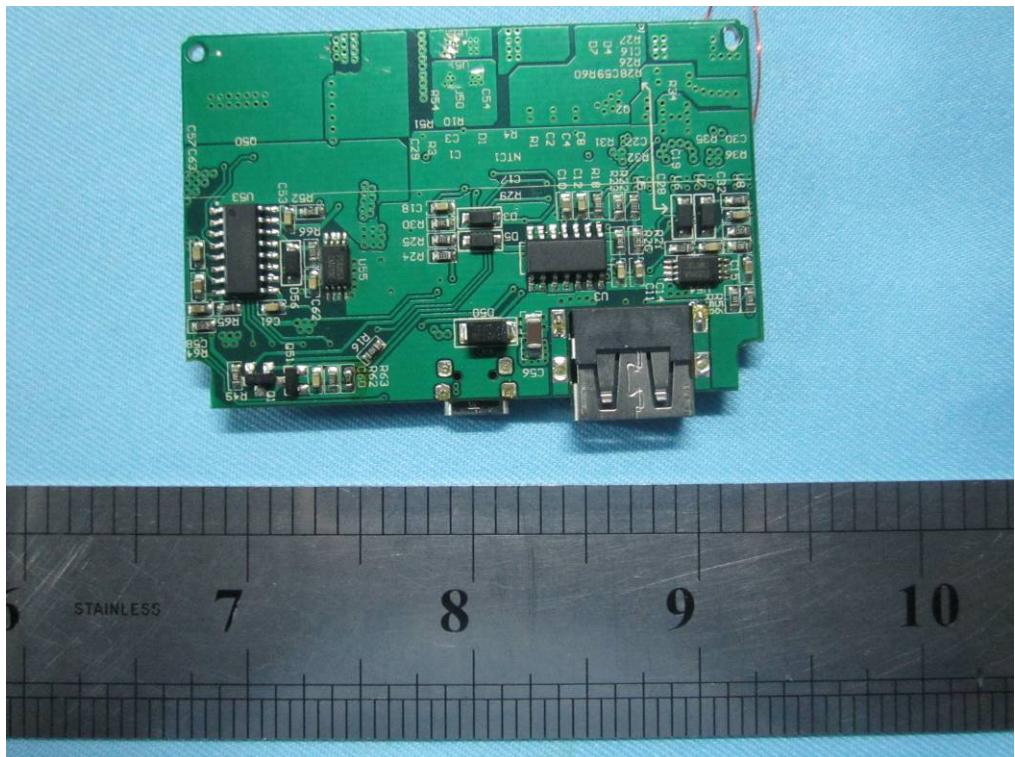
### **Annex B.ii. Photograph 2: EUT Internal Photo**



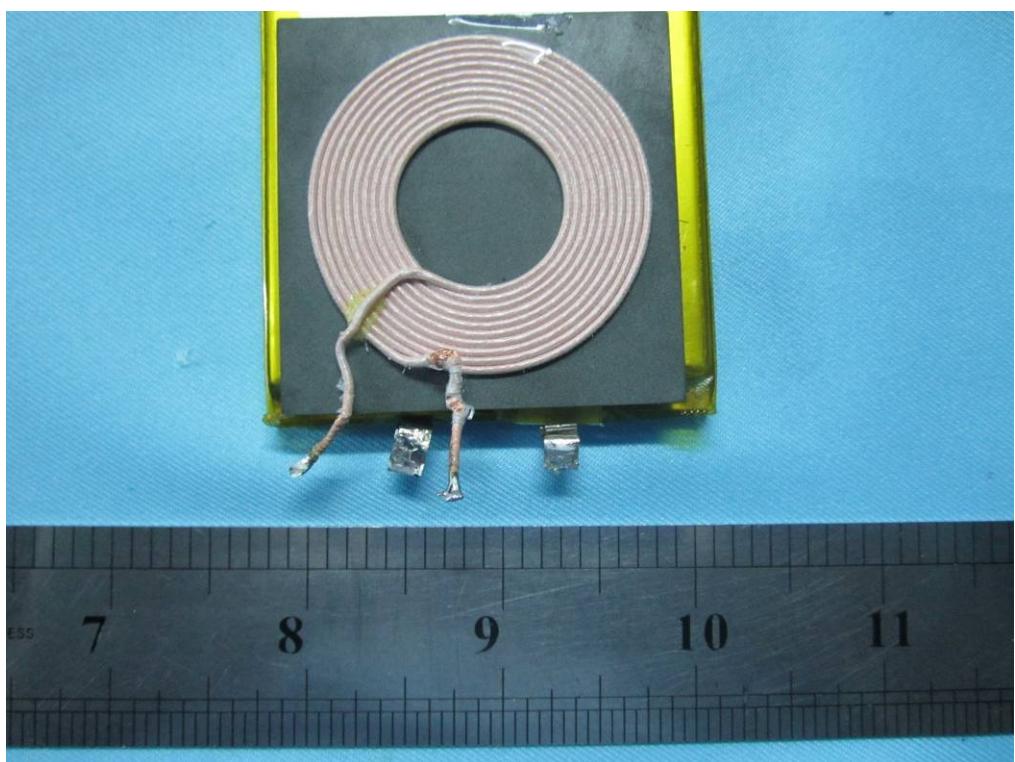
EUT-Cover Off View



Mainborad - Top View



Mainborad - Bottom View



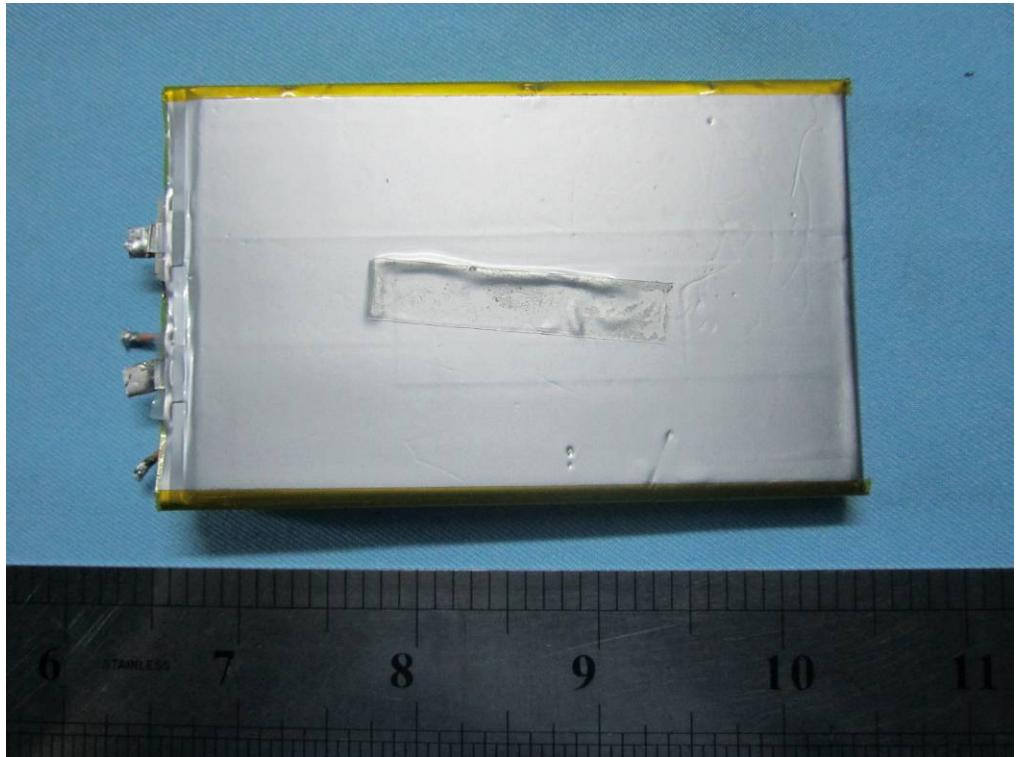
Coil Antenna - Top View



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Battery – Top View



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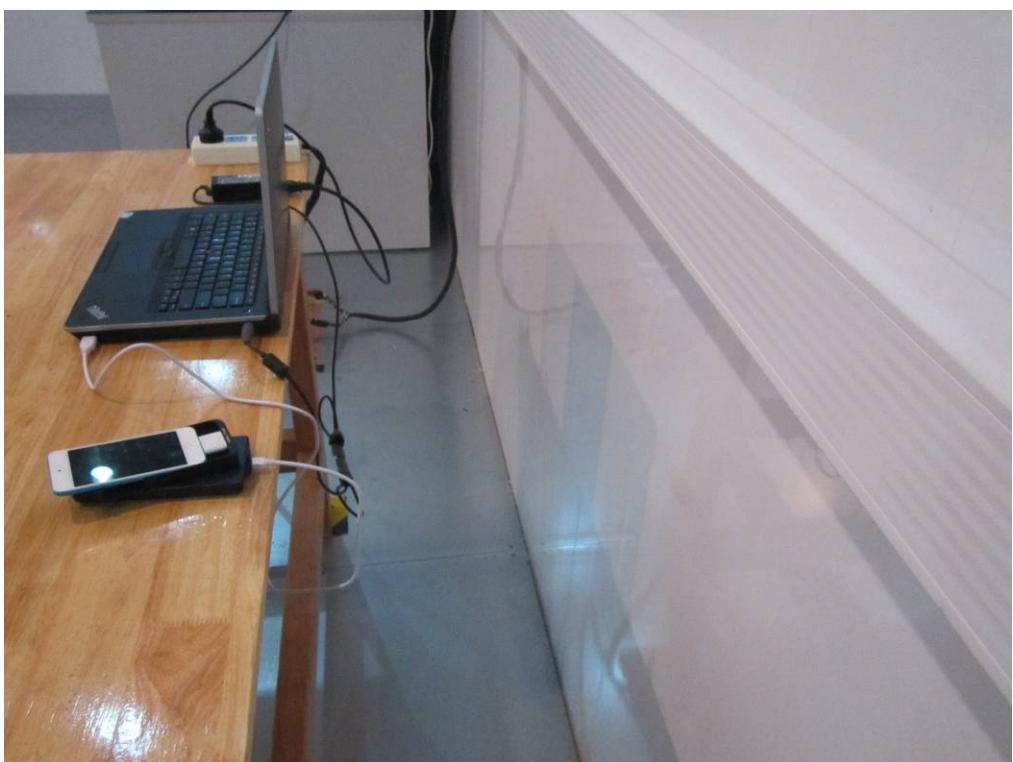
Title: EMC Test Report for dianxiaobao  
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### **Annex B.iii. Photograph 3: Test Setup Photo**



Conducted Emissions Test Setup Front View



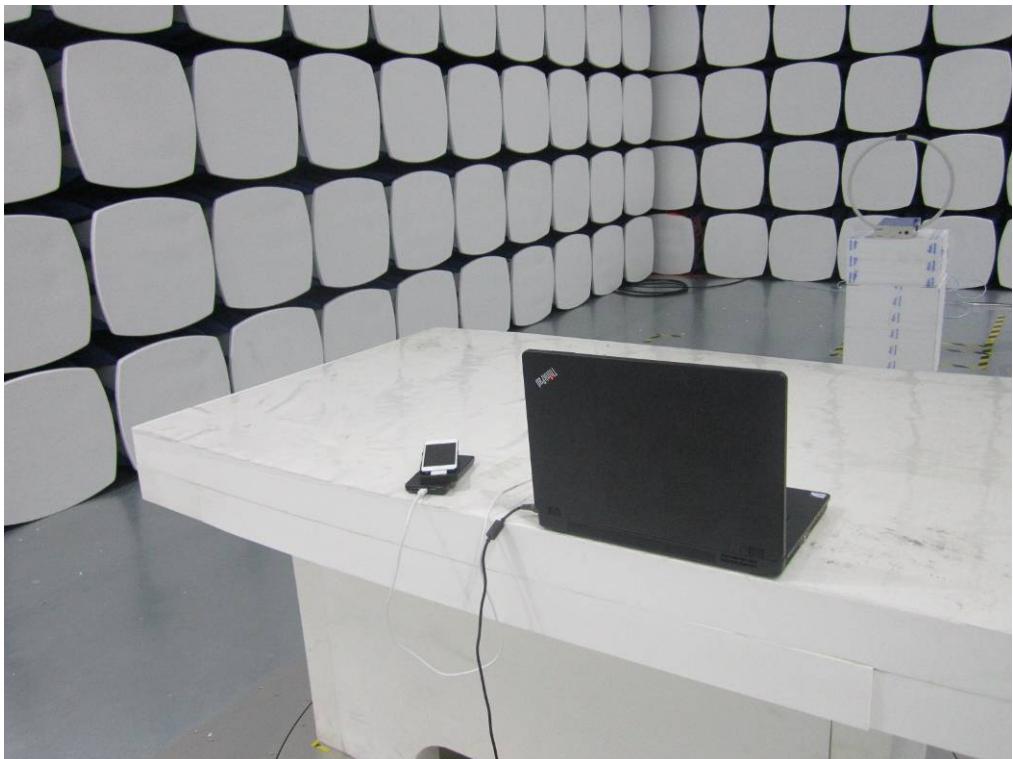
Conducted Emissions Test Setup Side View



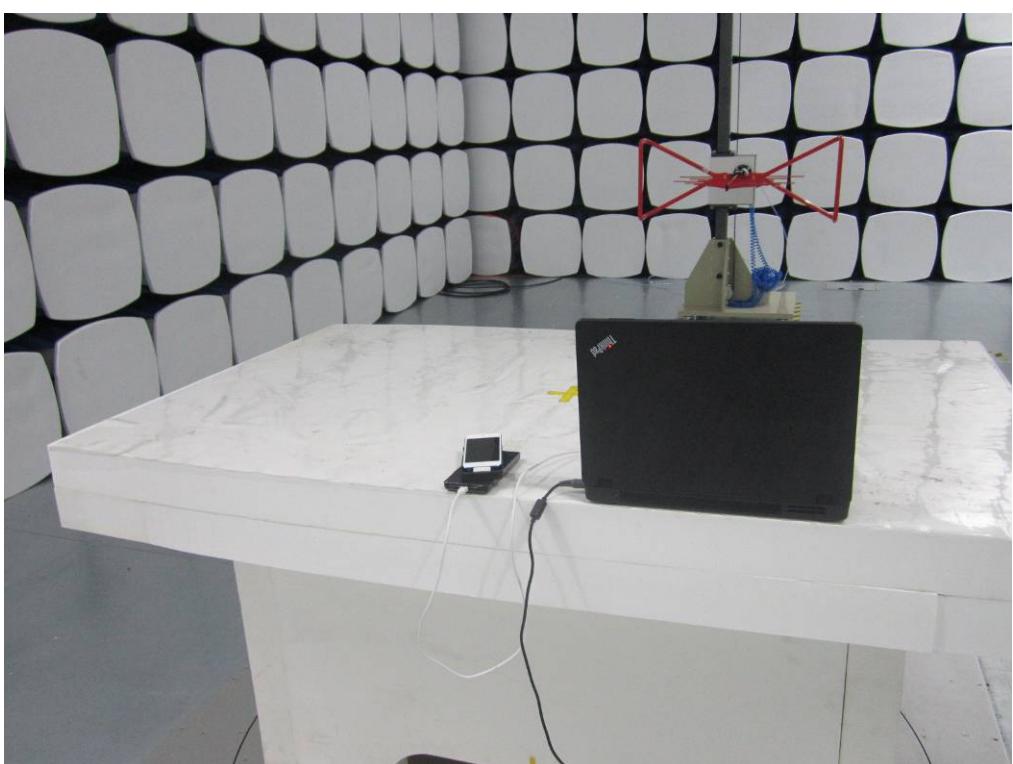
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Radiated Spurious Emissions Test Setup Below 30 MHz - Front View



Radiated Spurious Emissions Test Setup Above 30 MHz - Front View



## **Annex C. TEST SETUP AND SUPPORTING EQUIPMENT**

### **EUT TEST CONDITIONS**

#### **Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION**

The following is a description of supporting equipment and details of cables used with the EUT.

<b>Equipment Description (Including Brand Name)</b>	<b>Model &amp; Serial Number</b>	<b>Cable Description (List Length, Type &amp; Purpose)</b>
MP3/MP4	iPod touch 5 & N/A	N/A



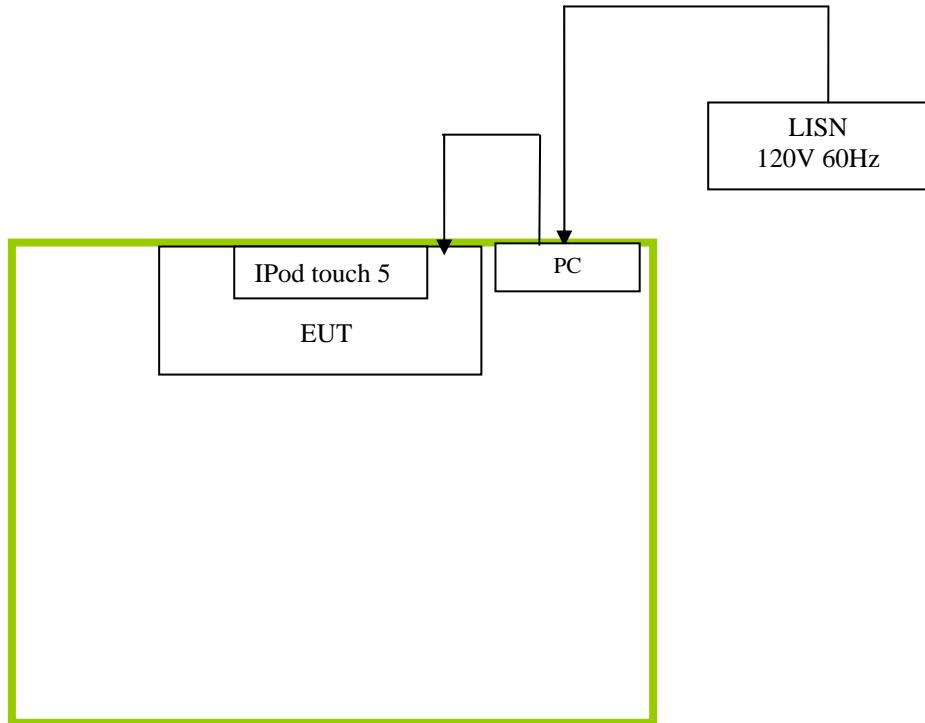
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## Block Configuration Diagram for Conducted Emissions

**Mode: Charging**



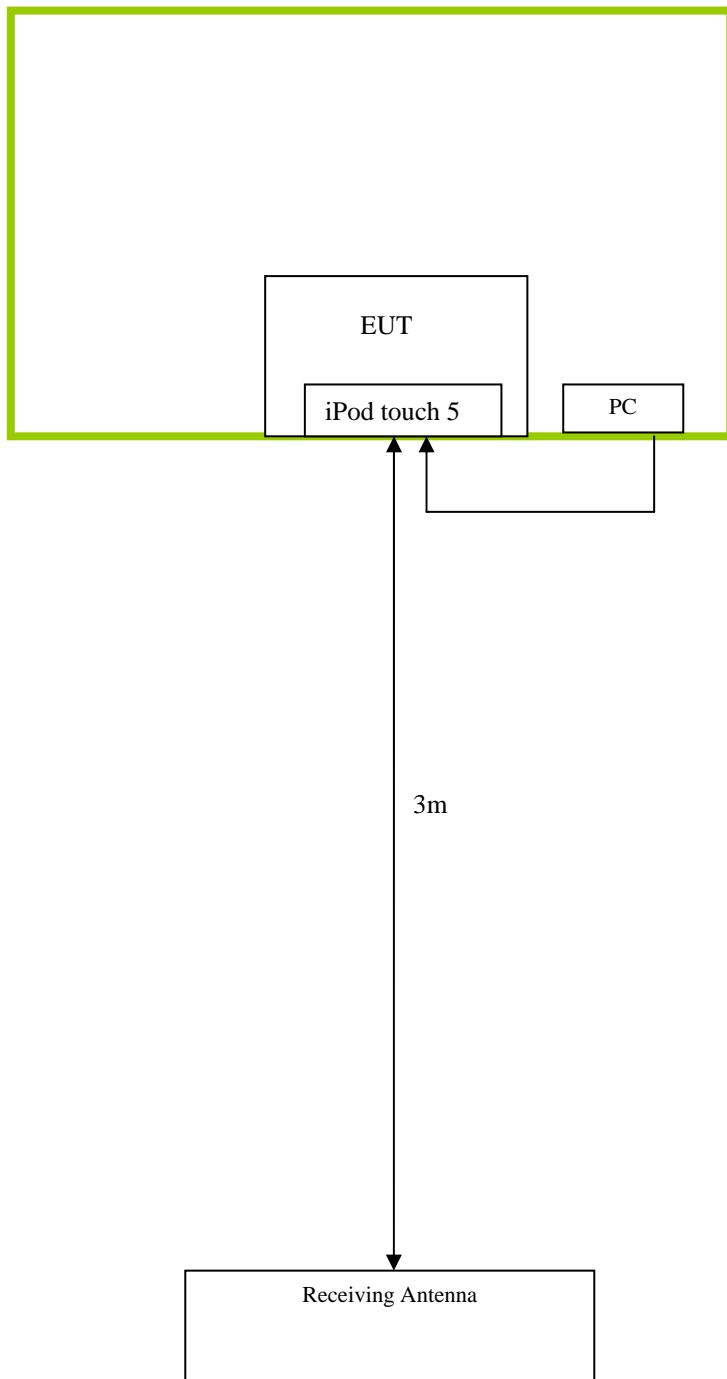


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Main Model: UP1  
Serial Model: N/A  
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**Block Configuration Diagram for Radiated Emissions**  
**Mode: Charging & Downloading**





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## **Annex C. ii. EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
<b>Emissions</b>	Charging



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## **Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST**

**Please see attachment**



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## **Annex E. DECLARATION OF SIMILARITY**

N/A