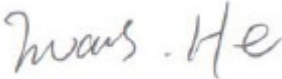




# EMC TEST REPORT



Report No.: 17070388-FCC-E

Supersede Report No: N/A

Applicant	BLU Products, Inc.	
Product Name	Mobile Phone	
Model No.	R2	
Serial No.	N/A	
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014	
Test Date	May 27 to June 19, 2017	
Issue Date	June 20, 2017	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
		
Evans He Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

**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 518108

Phone: +86 0755 2601 4629801 Email: [China@siemic.com.cn](mailto:China@siemic.com.cn)

## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

Test Report	17070388-FCC-E
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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070388-FCC-E	NONE	Original	June 20, 2017

## 2. Customer information

Applicant Name	BLU Products, Inc.
Applicant Add	10814 NW 33rd St # 100 Doral, FL 33172
Manufacturer	BLU Products, Inc.
Manufacturer Add	10814 NW 33rd St # 100 Doral, FL 33172

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software of Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of Conducted Emission	EZ-EMC(ver.lcp-03A1)

## 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone
Main Model:	R2
Serial Model:	N/A
Antenna Gain:	<p>GSM850: -2.8dBi          PCS1900: -2.3dBi          UMTS-FDD Band V: -2.5dBi          UMTS-FDD Band IV: -2.5dBi          UMTS-FDD Band II: -2.5dBi          LTE Band VII: -3.0dBi          WIFI: -2.7dBi          Bluetooth/BLE: -2.7dBi          GPS: -2.9dBi</p>
Antenna Type:	PIFA antenna
Input Power:	<p>Adapter:          Model: US-WT-1500          Input: AC100-240V~50/60Hz,0.3A          Output: DC 5V,1.5A          Battery:          Model: C716041300P          Spec : 3.8V,3000mAh,11.4Wh          Input : 5.0V,1.5A</p>
Equipment Category :	JBP
Type of Modulation:	<p>GSM / GPRS: GMSK          EGPRS: GMSK,8PSK          UMTS-FDD: QPSK          LTE Band: QPSK, 16QAM          802.11b/g/n: DSSS, OFDM          Bluetooth: GFSK, <math>\pi</math> /4DQPSK, 8DPSK          BLE: GFSK          GPS:BPSK</p>



## 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance



## Measurement Uncertainty

Parameter	Uncertainty
AC Power Line Conducted Emissions (150kHz~30MHz)	$\pm 3.11\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.12\text{dB}$
Radiated Emission(1GHz~6GHz)	$\pm 5.34\text{dB}$

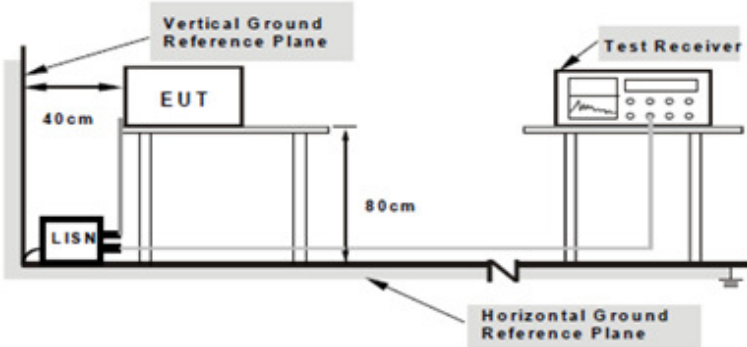
## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	22 °C
Relative Humidity	51%
Atmospheric Pressure	1009mbar
Test date :	June 09, 2017
Tested By :	Evans He

#### Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBµV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	<input checked="" type="checkbox"/>
Frequency ranges (MHz)	Limit (dBµV)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															

Test Setup	 <p>Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>
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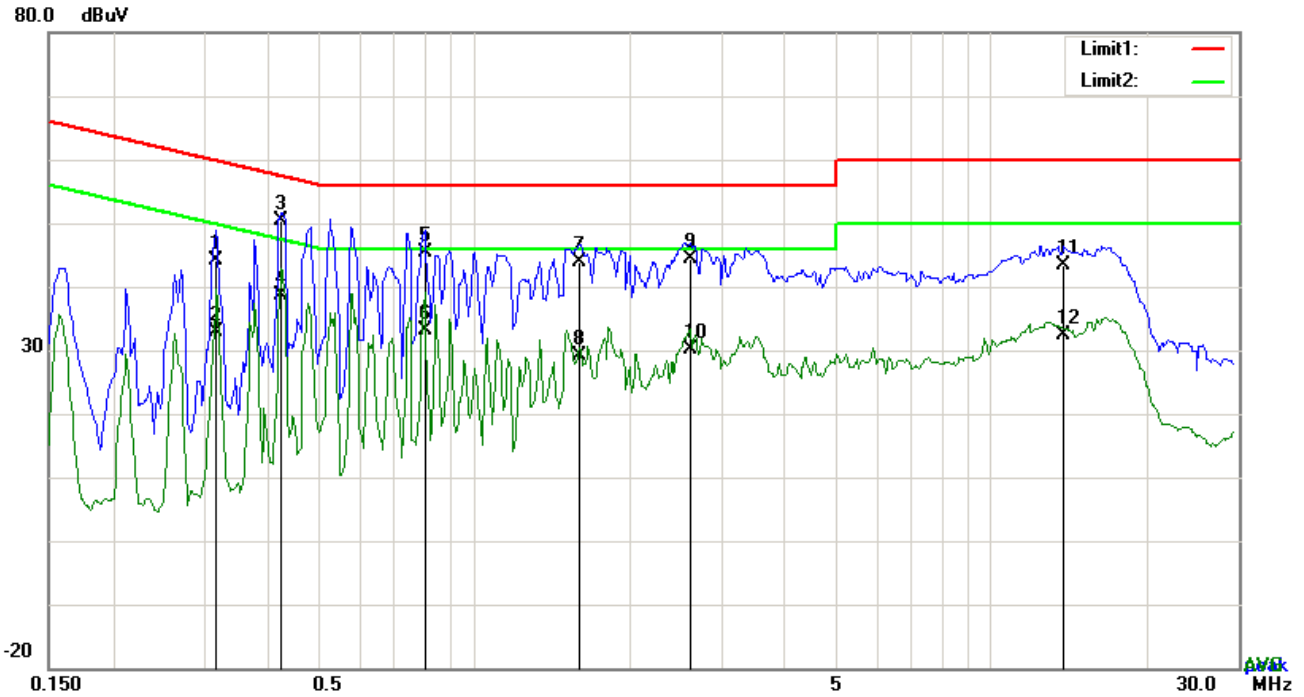
Procedure	<ol style="list-style-type: none"> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to filtered mains.</li> </ol>
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	<ol style="list-style-type: none"> <li>3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>4. All other supporting equipment were powered separately from another main supply.</li> <li>5. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>6. 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.</li> <li>7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz.</li> <li>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</li> </ol>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data     Yes                       N/A

Test Plot     Yes (See below)             N/A

**Test Mode : USB Mode**

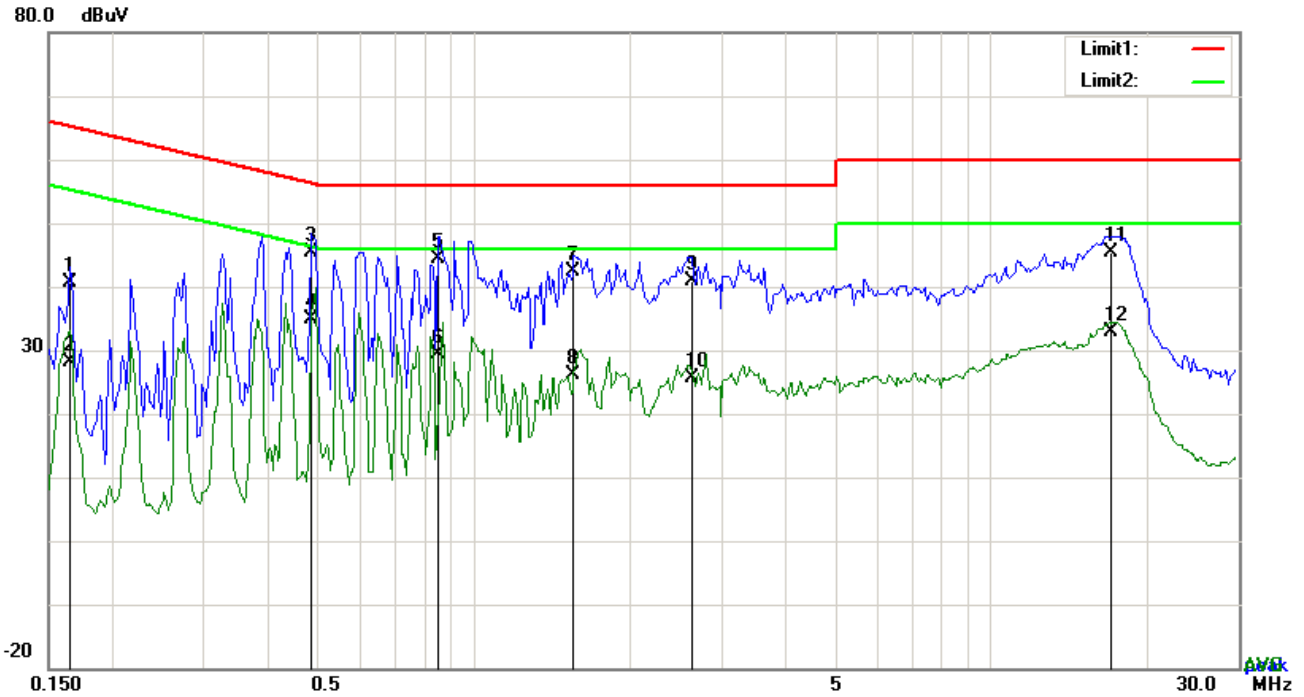


**Test Data**

**Phase Line Plot at 120Vac, 60Hz**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.3177	34.18	QP	10.03	44.21	59.77	-15.56
2	L1	0.3177	22.96	AVG	10.03	32.99	49.77	-16.78
3	L1	0.4230	40.32	QP	10.03	50.35	57.39	-7.04
4	L1	0.4230	28.64	AVG	10.03	38.67	47.39	-8.72
5	L1	0.8013	35.34	QP	10.03	45.37	56.00	-10.63
6	L1	0.8013	23.03	AVG	10.03	33.06	46.00	-12.94
7	L1	1.6008	33.73	QP	10.04	43.77	56.00	-12.23
8	L1	1.6008	19.06	AVG	10.04	29.10	46.00	-16.90
9	L1	2.6148	34.21	QP	10.05	44.26	56.00	-11.74
10	L1	2.6148	20.07	AVG	10.05	30.12	46.00	-15.88
11	L1	13.8069	33.11	QP	10.21	43.32	60.00	-16.68
12	L1	13.8069	22.06	AVG	10.21	32.27	50.00	-17.73

<b>Test Mode :</b>	<b>USB Mode</b>
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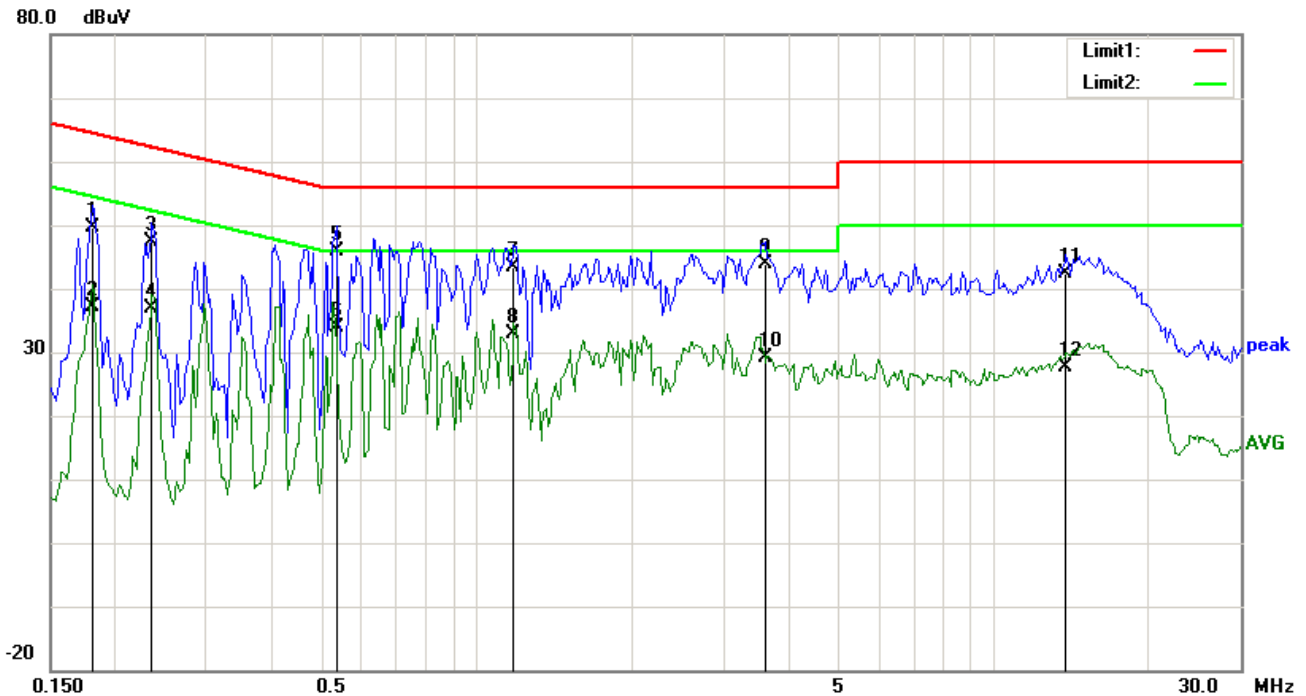


**Test Data**

**Phase Neutral Plot at 120Vac, 60Hz**

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1656	30.72	QP	10.02	40.74	65.18	-24.44
2	N	0.1656	18.23	AVG	10.02	28.25	55.18	-26.93
3	N	0.4815	35.48	QP	10.02	45.50	56.31	-10.81
4	N	0.4815	24.90	AVG	10.02	34.92	46.31	-11.39
5	N	0.8520	34.39	QP	10.03	44.42	56.00	-11.58
6	N	0.8520	19.26	AVG	10.03	29.29	46.00	-16.71
7	N	1.5579	32.30	QP	10.04	42.34	56.00	-13.66
8	N	1.5579	15.98	AVG	10.04	26.02	46.00	-19.98
9	N	2.6343	30.87	QP	10.05	40.92	56.00	-15.08
10	N	2.6343	15.52	AVG	10.05	25.57	46.00	-20.43
11	N	17.0361	35.20	QP	10.22	45.42	60.00	-14.58
12	N	17.0361	22.69	AVG	10.22	32.91	50.00	-17.09

<b>Test Mode :</b>	<b>USB Mode</b>
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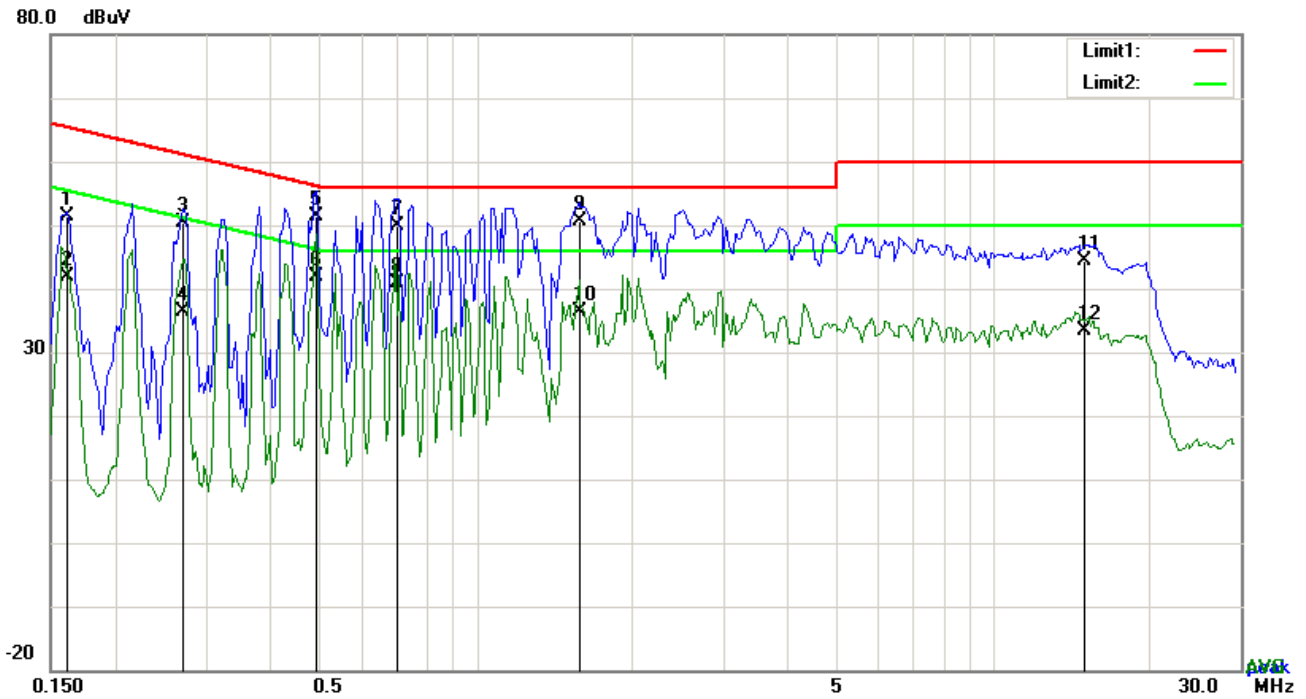


**Test Data**

**Phase Line Plot at 240Vac, 60Hz**

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1812	39.55	QP	10.03	49.58	64.43	-14.85
2	L1	0.1812	27.17	AVG	10.03	37.20	54.43	-17.23
3	L1	0.2358	37.30	QP	10.03	47.33	62.24	-14.91
4	L1	0.2358	26.82	AVG	10.03	36.85	52.24	-15.39
5	L1	0.5361	35.82	QP	10.03	45.85	56.00	-10.15
6	L1	0.5361	23.90	AVG	10.03	33.93	46.00	-12.07
7	L1	1.1796	33.42	QP	10.03	43.45	56.00	-12.55
8	L1	1.1796	22.76	AVG	10.03	32.79	46.00	-13.21
9	L1	3.6318	33.72	QP	10.06	43.78	56.00	-12.22
10	L1	3.6318	19.17	AVG	10.06	29.23	46.00	-16.77
11	L1	13.7991	32.23	QP	10.21	42.44	60.00	-17.56
12	L1	13.7991	17.47	AVG	10.21	27.68	50.00	-22.32

Test Mode :	USB Mode
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**Test Data**

**Phase Neutral Plot at 240Vac, 60Hz**

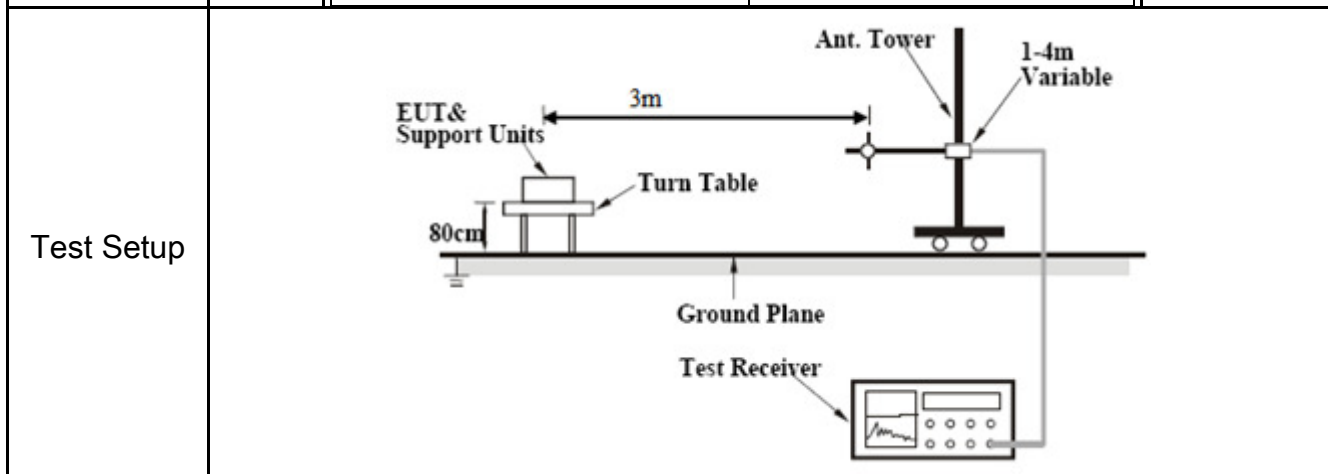
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1617	41.40	QP	10.02	51.42	65.38	-13.96
2	N	0.1617	31.92	AVG	10.02	41.94	55.38	-13.44
3	N	0.2709	40.47	QP	10.02	50.49	61.09	-10.60
4	N	0.2709	26.42	AVG	10.02	36.44	51.09	-14.65
5	N	0.4893	41.40	QP	10.02	51.42	56.18	-4.76
6	N	0.4893	31.75	AVG	10.02	41.77	46.18	-4.41
7	N	0.7038	39.87	QP	10.02	49.89	56.00	-6.11
8	N	0.7038	30.85	AVG	10.02	40.87	46.00	-5.13
9	N	1.5813	40.51	QP	10.04	50.55	56.00	-5.45
10	N	1.5813	26.33	AVG	10.04	36.37	46.00	-9.63
11	N	14.9730	34.29	QP	10.20	44.49	60.00	-15.51
12	N	14.9730	23.09	AVG	10.20	33.29	50.00	-16.71

## 6.2 Radiated Emissions

Temperature	23 °C
Relative Humidity	56%
Atmospheric Pressure	1014mbar
Test date :	June 14, 2017
Tested By :	Evans He

### Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.109(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	<input checked="" type="checkbox"/>										
		<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (<math>\mu\text{V}/\text{m}</math>)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>		Frequency range (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ )	30 – 88	100	88 – 216	150	216 960	200	Above 960	500
		Frequency range (MHz)		Field Strength ( $\mu\text{V}/\text{m}$ )									
		30 – 88		100									
		88 – 216		150									
216 960	200												
Above 960	500												



Procedure	<ol style="list-style-type: none"> <li>1. The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>a. Vertical or horizontal polarization (whichever gave the higher emission level</li> </ol> </li> </ol>
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	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</p> <p>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz. ■ 1 kHz (Duty cycle &lt; 98%) □ 10 Hz (Duty cycle &gt; 98%)</p> <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

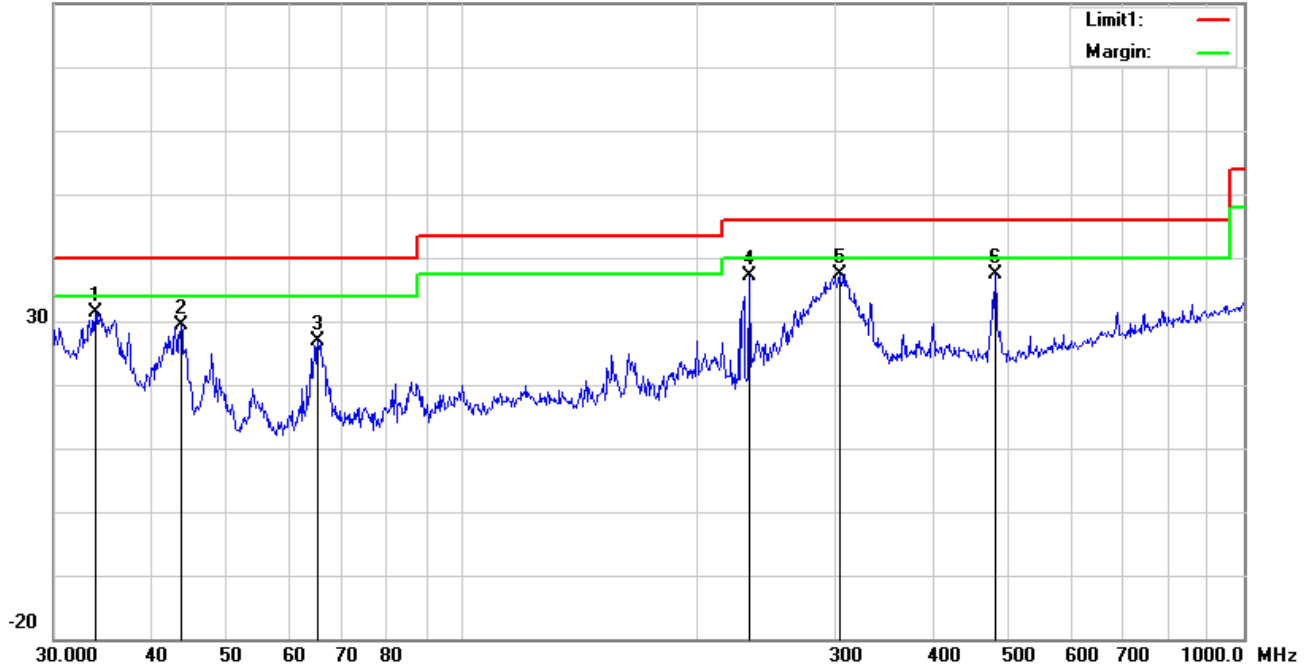
Test Data     Yes                       N/A

Test Plot     Yes (See below)             N/A

Test Mode :	USB Mode
-------------	----------

**Below 1GHz**

80.0 dBuV/m

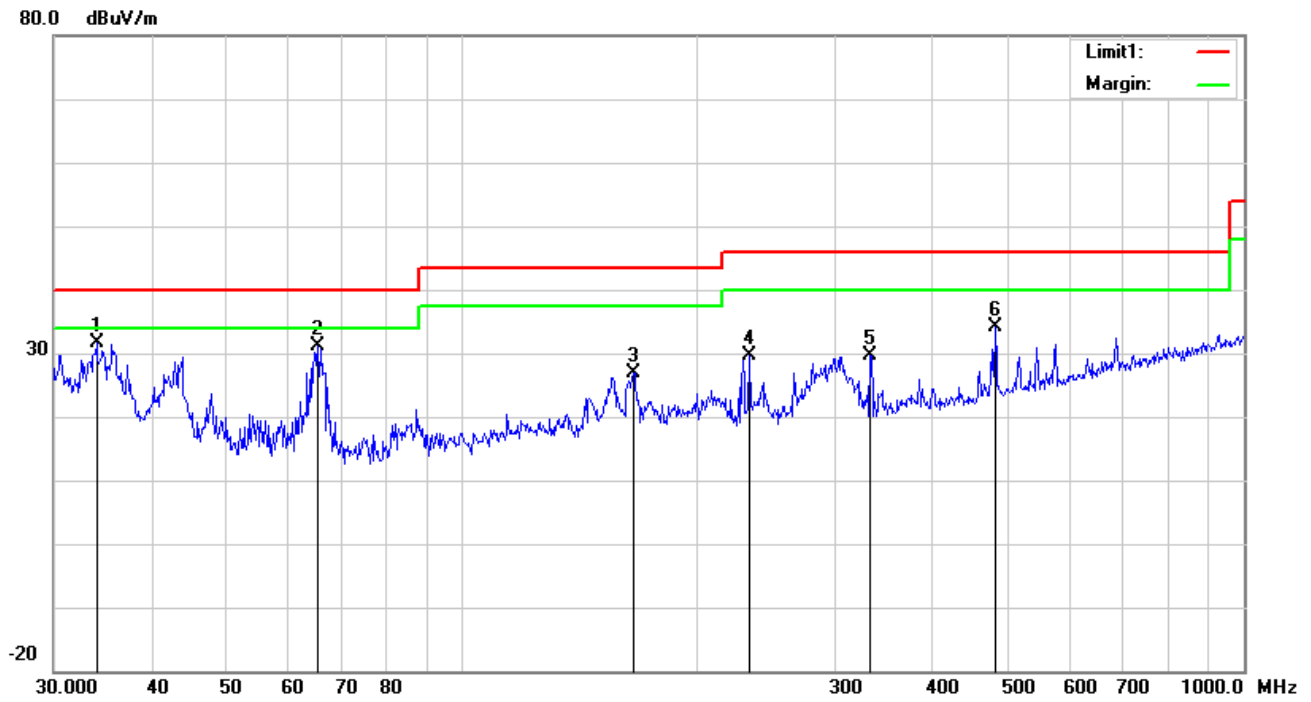


**Test Data**

**Horizontal Polarity Plot @3m**

No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	H	33.9174	34.44	peak	18.38	22.26	0.73	31.29	40.00	-8.71	100	192
2	H	43.6585	39.32	peak	11.49	22.29	0.76	29.28	40.00	-10.72	100	148
3	H	65.3432	40.80	peak	7.57	22.39	0.89	26.87	40.00	-13.13	200	308
4	H	232.5318	46.07	peak	11.64	22.32	1.64	37.03	46.00	-8.97	100	33
5	H	303.5437	44.23	peak	13.67	22.28	1.81	37.43	46.00	-8.57	100	259
6	H	480.5276	39.51	peak	17.31	21.85	2.31	37.28	46.00	-8.72	100	351

**Below 1GHz**



**Test Data**

**Vertical Polarity Plot @3m**

No.	P/L	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	34.0365	34.97	peak	18.29	22.26	0.73	31.73	40.00	-8.27	100	289
2	V	65.3432	45.05	peak	7.57	22.39	0.89	31.12	40.00	-8.88	100	89
3	V	165.4867	35.70	peak	12.16	22.26	1.37	26.97	43.50	-16.53	100	160
4	V	232.5318	38.73	peak	11.64	22.32	1.64	29.69	46.00	-16.31	100	277
5	V	332.5187	35.58	peak	14.28	22.20	1.95	29.61	46.00	-16.39	100	360
6	V	480.5276	36.45	peak	17.31	21.85	2.31	34.22	46.00	-11.78	100	110

***Above 1GHz***

Frequency (MHz)	Read_level (dBµV/m)	Azimuth	Height (cm)	Polarity (H/V)	Level (dBµV/m)	Factors (dB)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV)
1012.621	68.62	113	100	V	50.11	-18.51	74	-23.89	PK
1515.413	74.82	72	100	V	57.92	-16.9	74	-16.08	PK
2594.039	72.03	241	100	V	58.64	-13.39	74	-15.36	PK
1194.09	68.56	165	100	H	50.65	-17.91	74	-23.35	PK
1982.685	70.24	319	100	H	55.73	-14.51	74	-18.27	PK
2924.911	70.71	98	100	H	58.06	-12.65	74	-15.94	PK

*Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to  $5 \times 2480 \text{MHz} = 12,400 \text{MHz}$ .*

*Note2: The frequency that above 3GHz is mainly from the environment noise.*

*Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.*

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted Emissions</b>					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191106	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna	AH-118	71259	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>

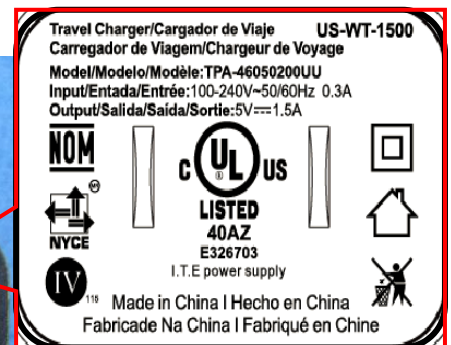
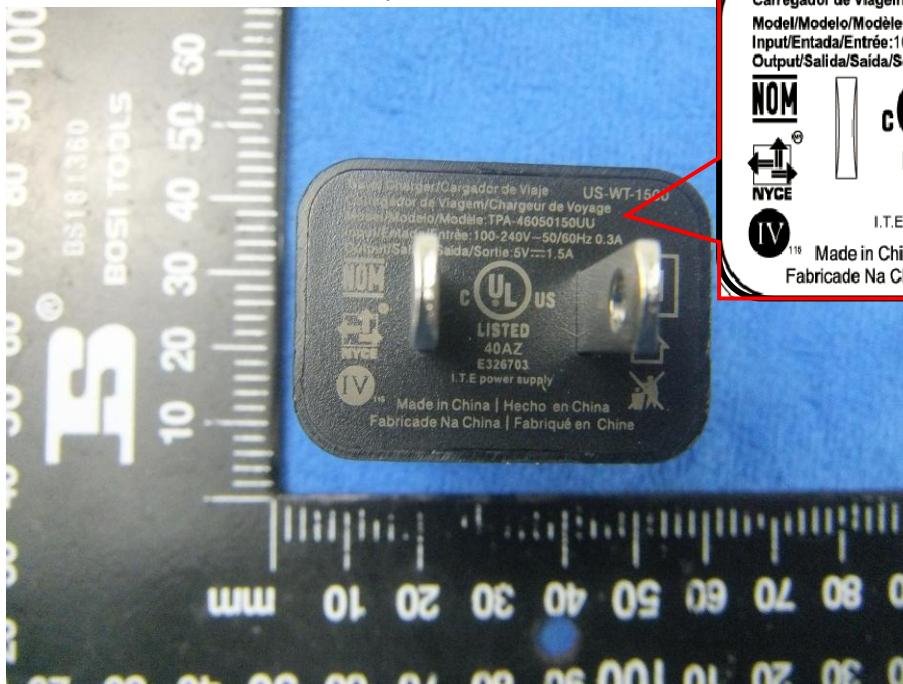
## Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Front View



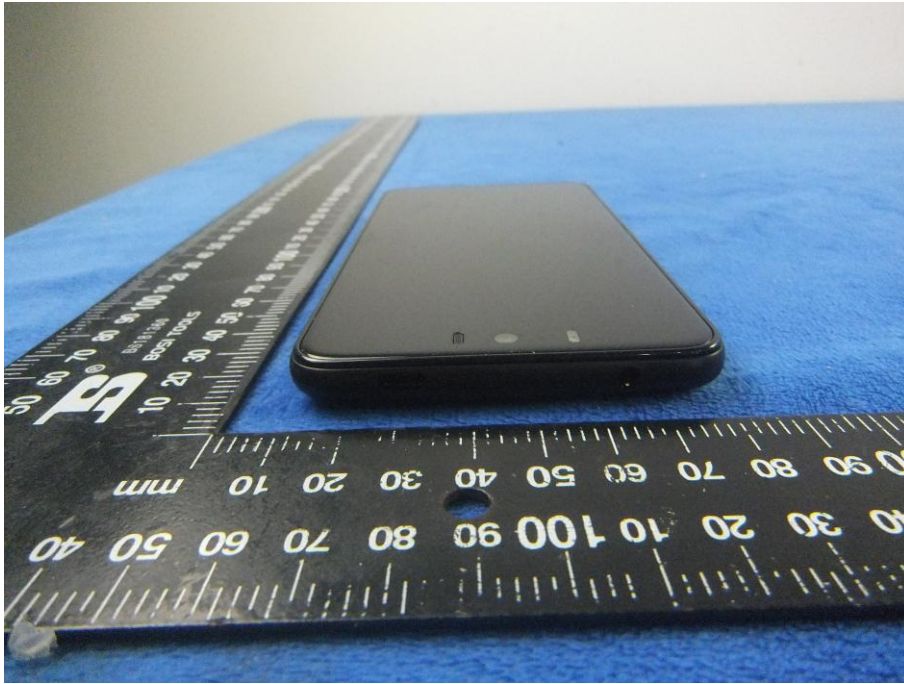
EUT - Front View



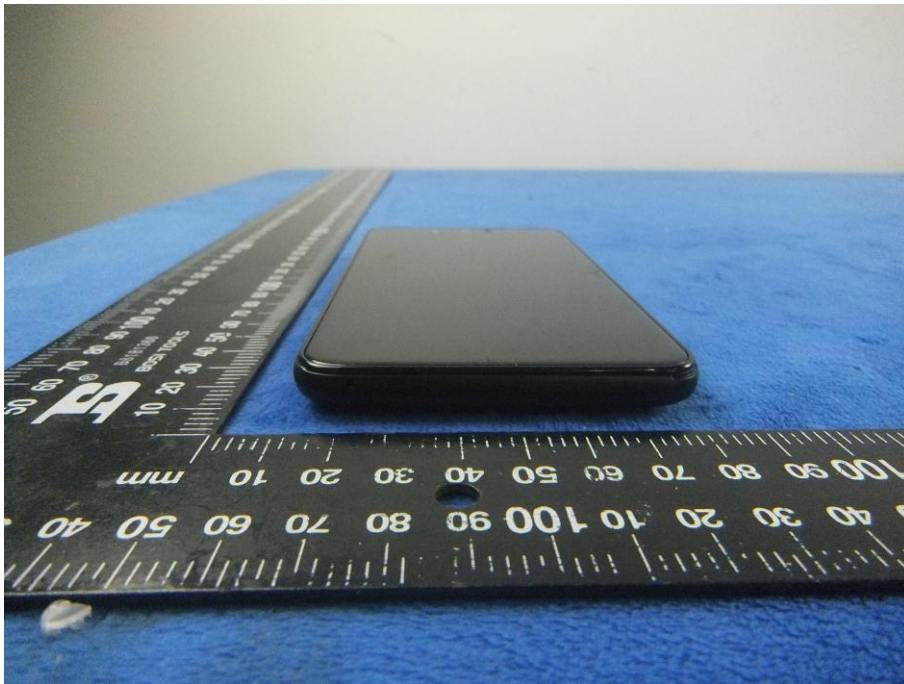
EUT - Rear View



EUT - Top View

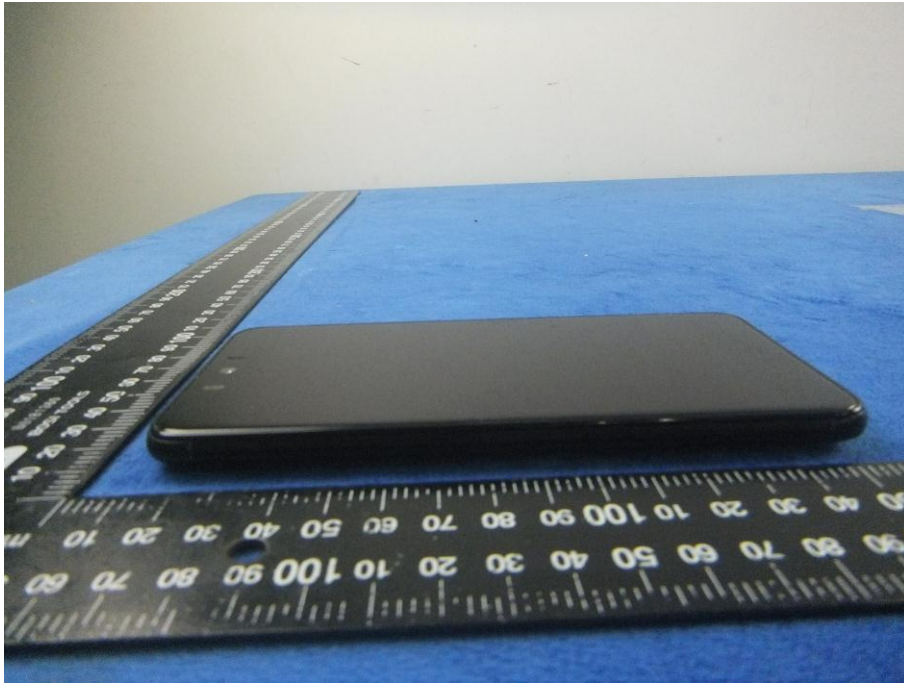


EUT - Bottom View

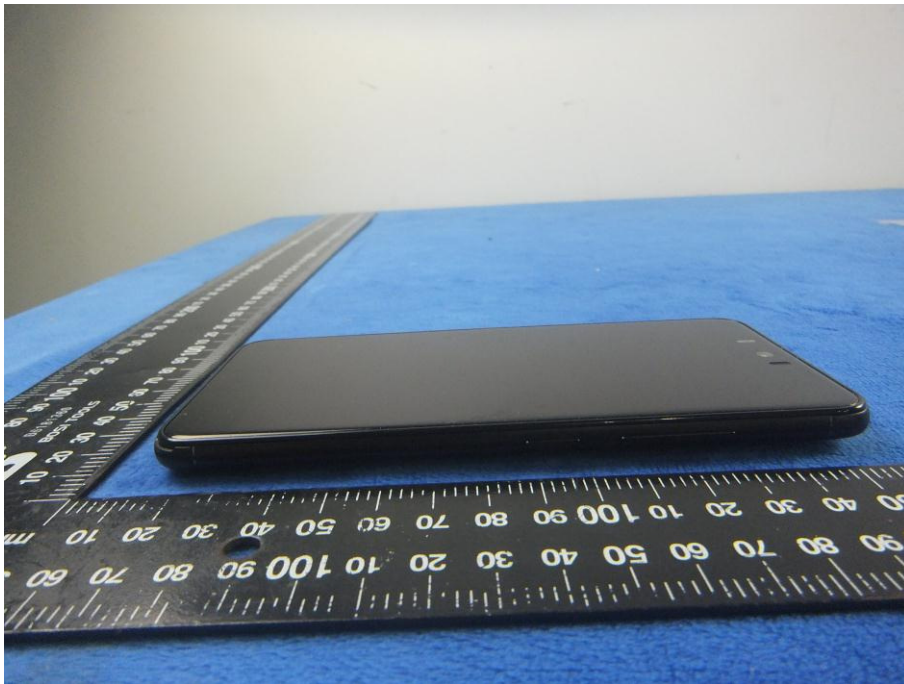




EUT - Left View



EUT - Right View



**Annex B.ii. Photograph: EUT Internal Photo**

Cover Off - Top View 1



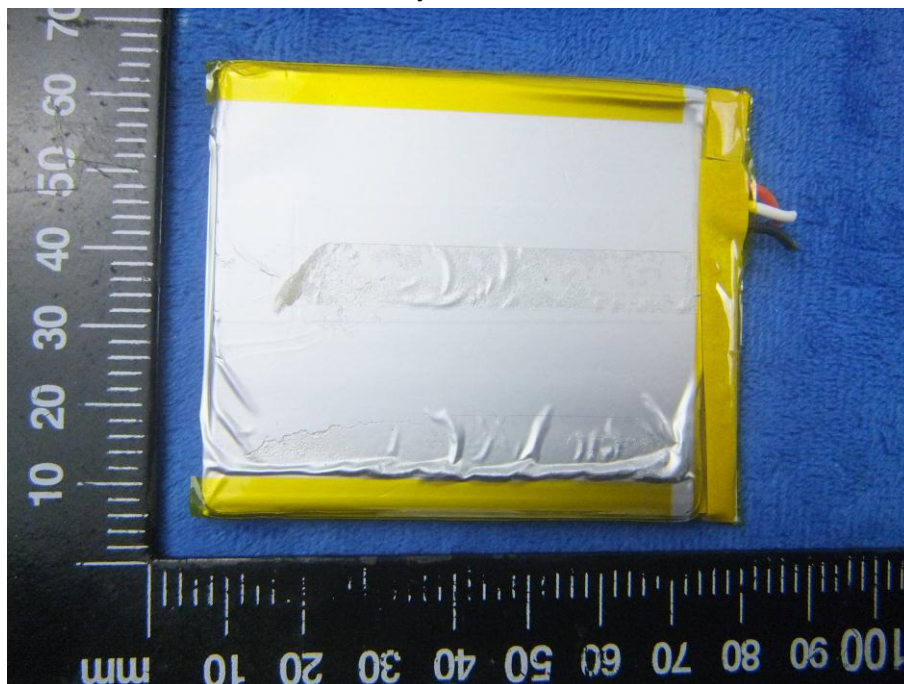
Cover Off - Top View 2



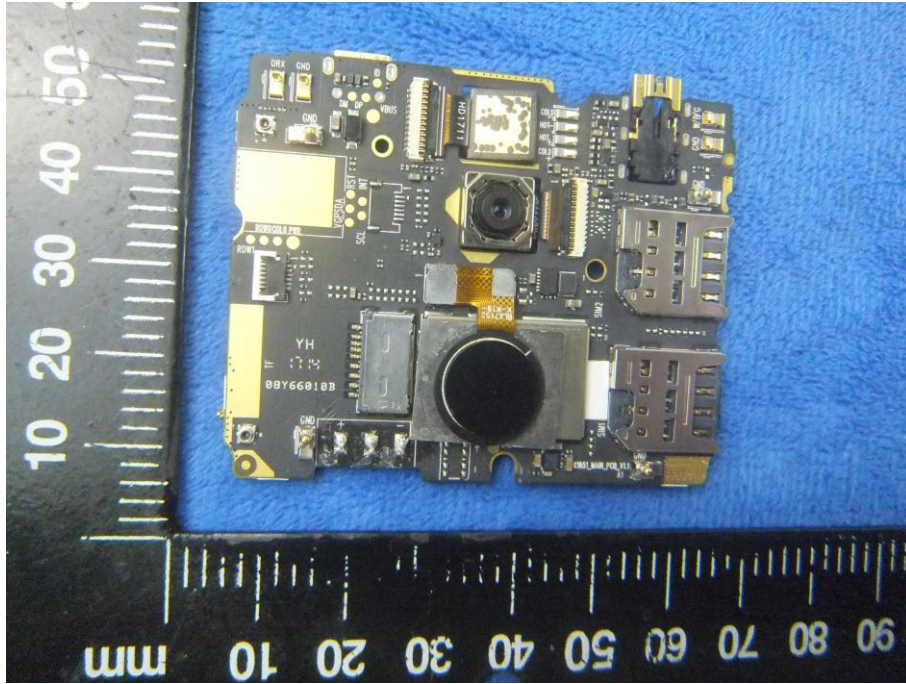
Battery - Front View



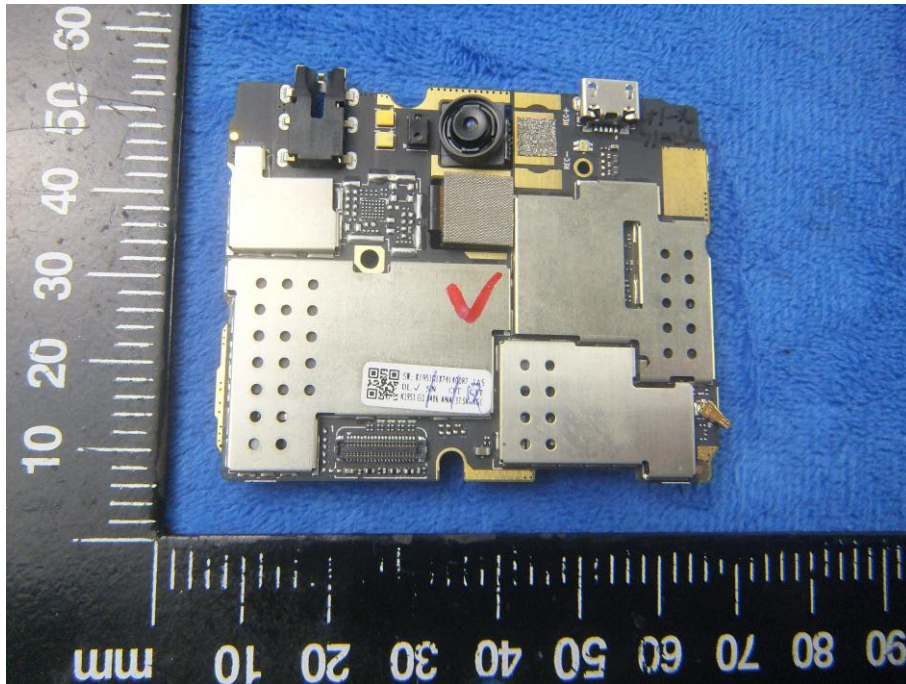
Battery - Rear View



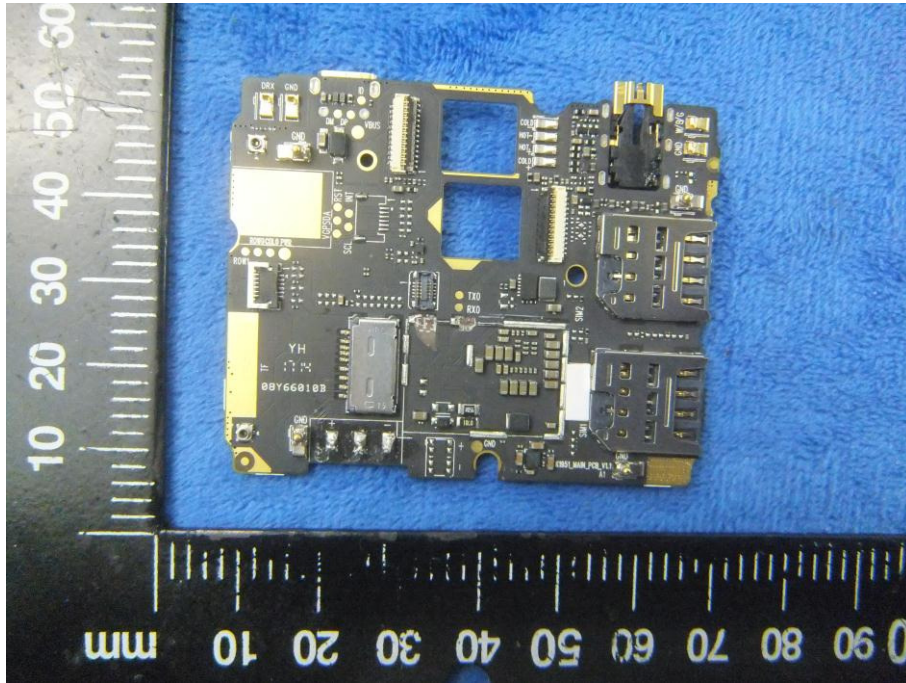
Mainboard with Shielding - Front View



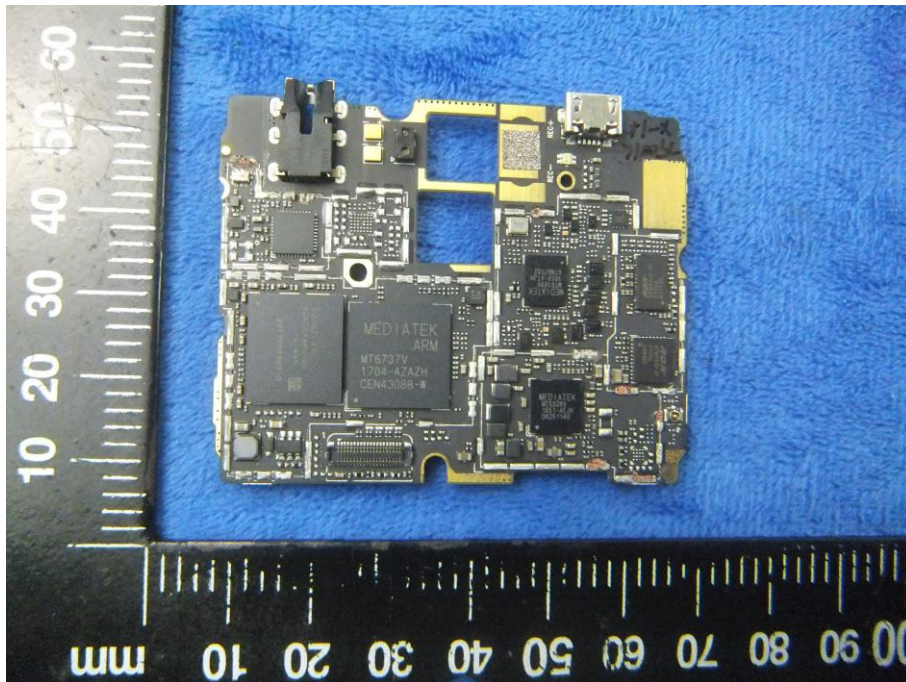
Mainboard with Shielding - Rear View



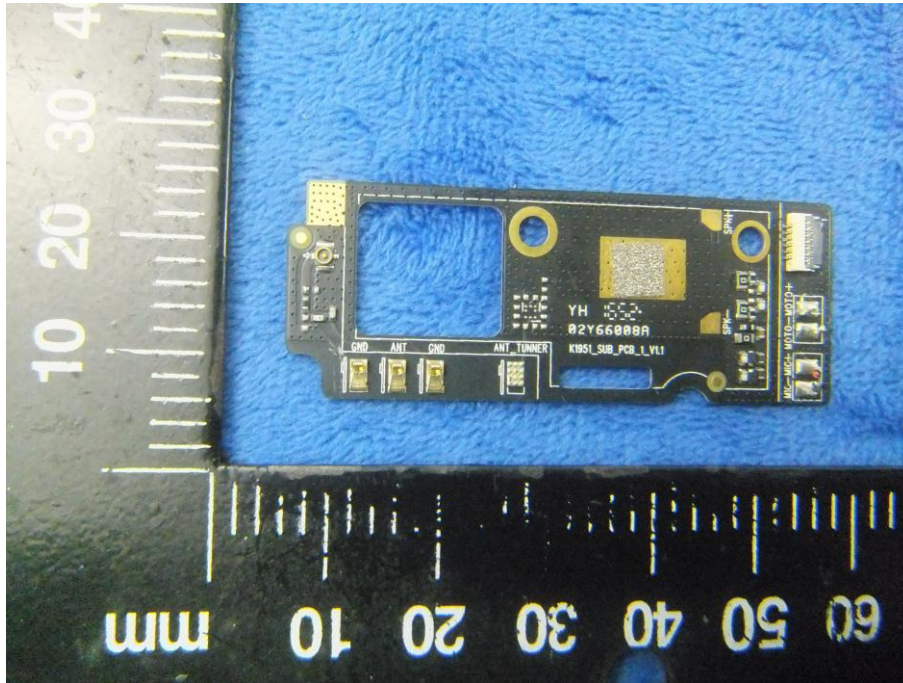
Mainboard without Shielding - Front View



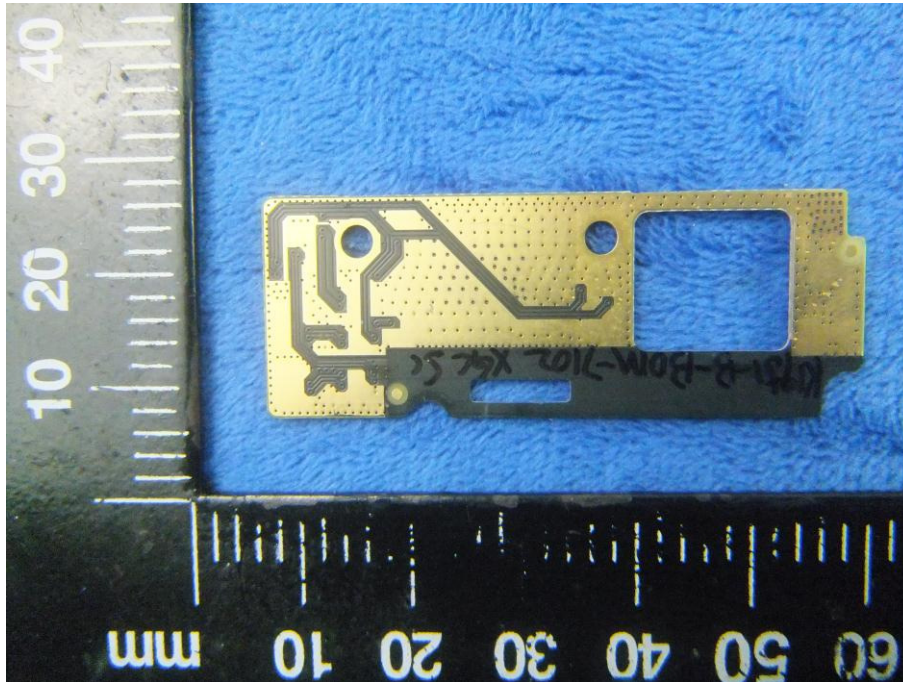
Mainboard without Shielding - Rear View



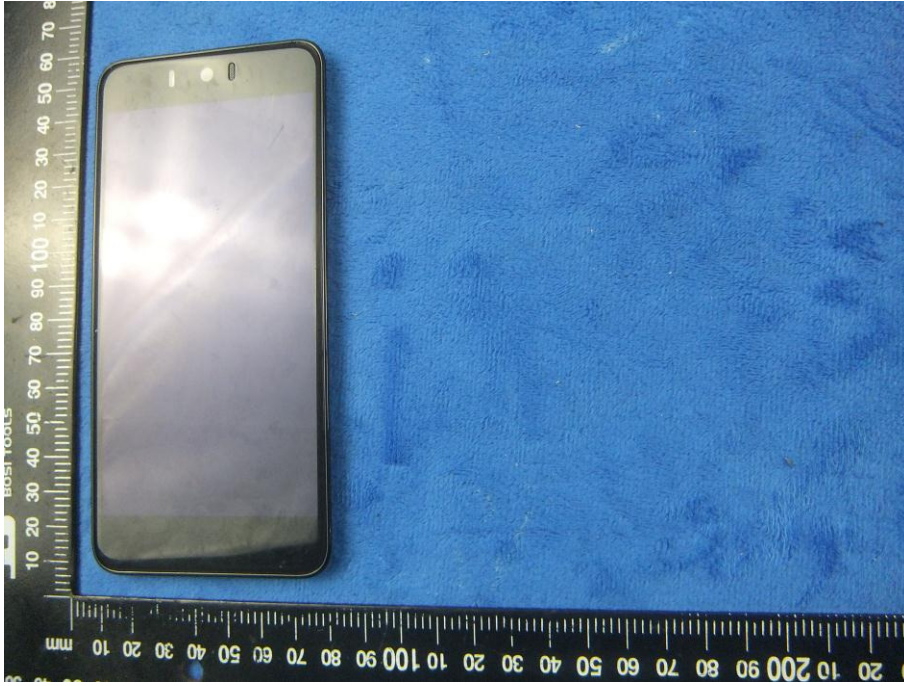
Small Mainboard - Front View



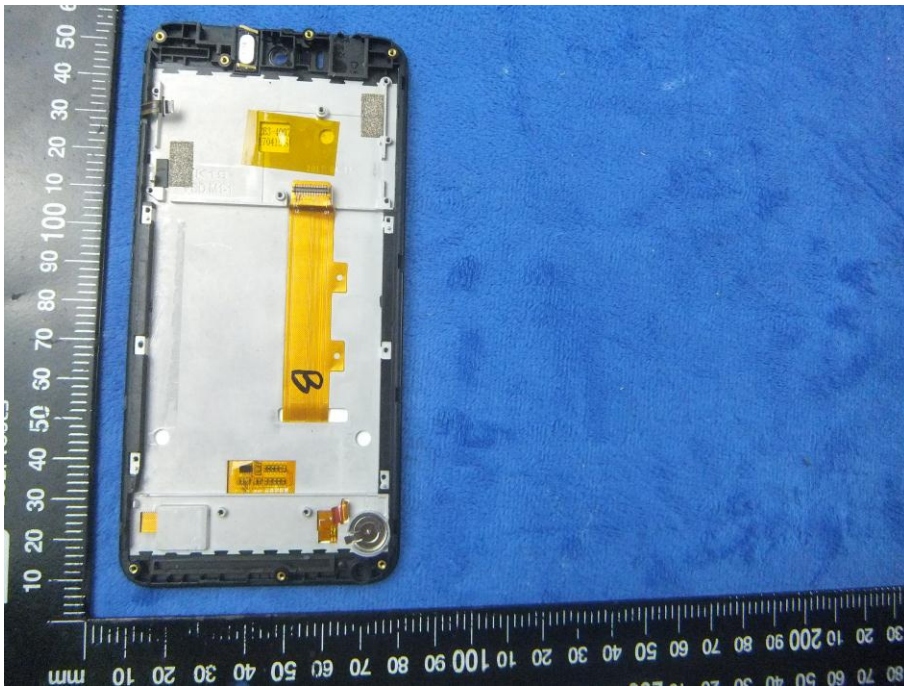
Small Mainboard - Rear View



LCD – Front View



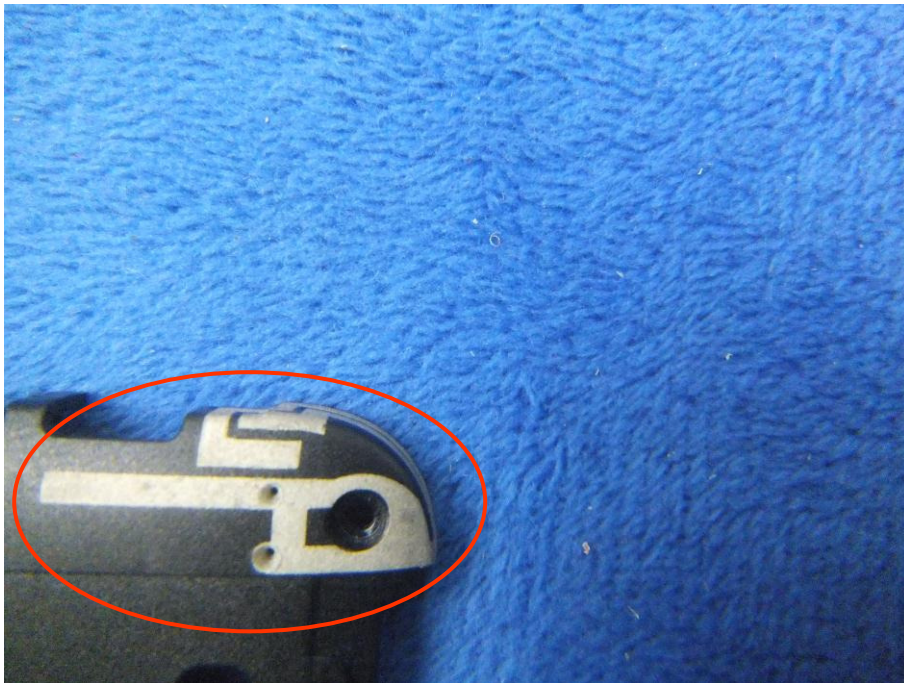
LCD – Rear View



GSM/PCS/UMTS - Antenna View



BT/WIFI - Antenna View





LTE - Antenna View



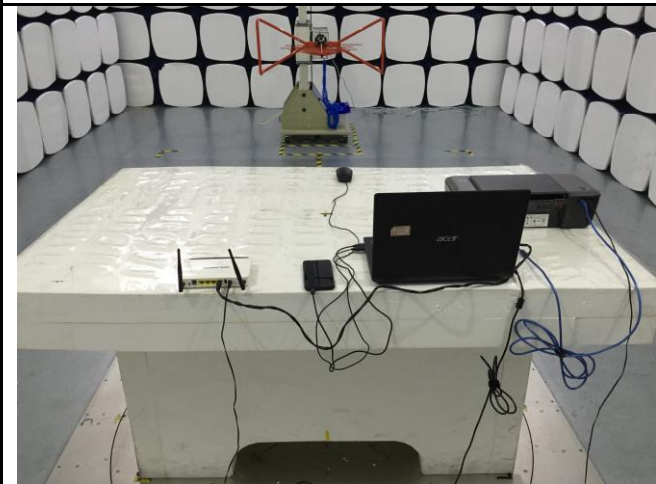
**Annex B.iii. Photograph: Test Setup Photo**



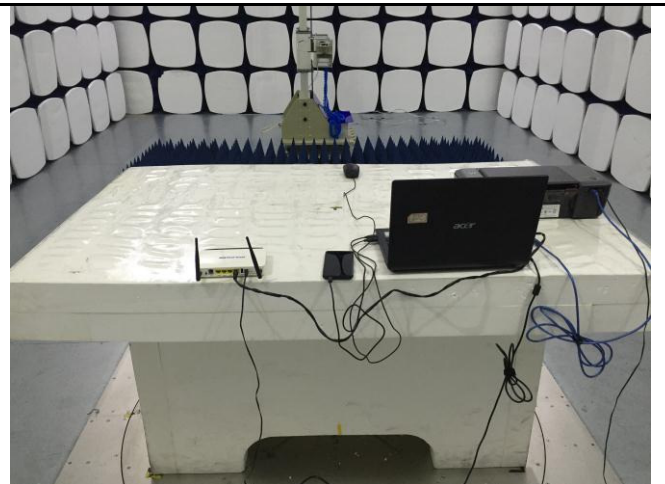
Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View



Radiated Emissions Test Setup Below 1GHz

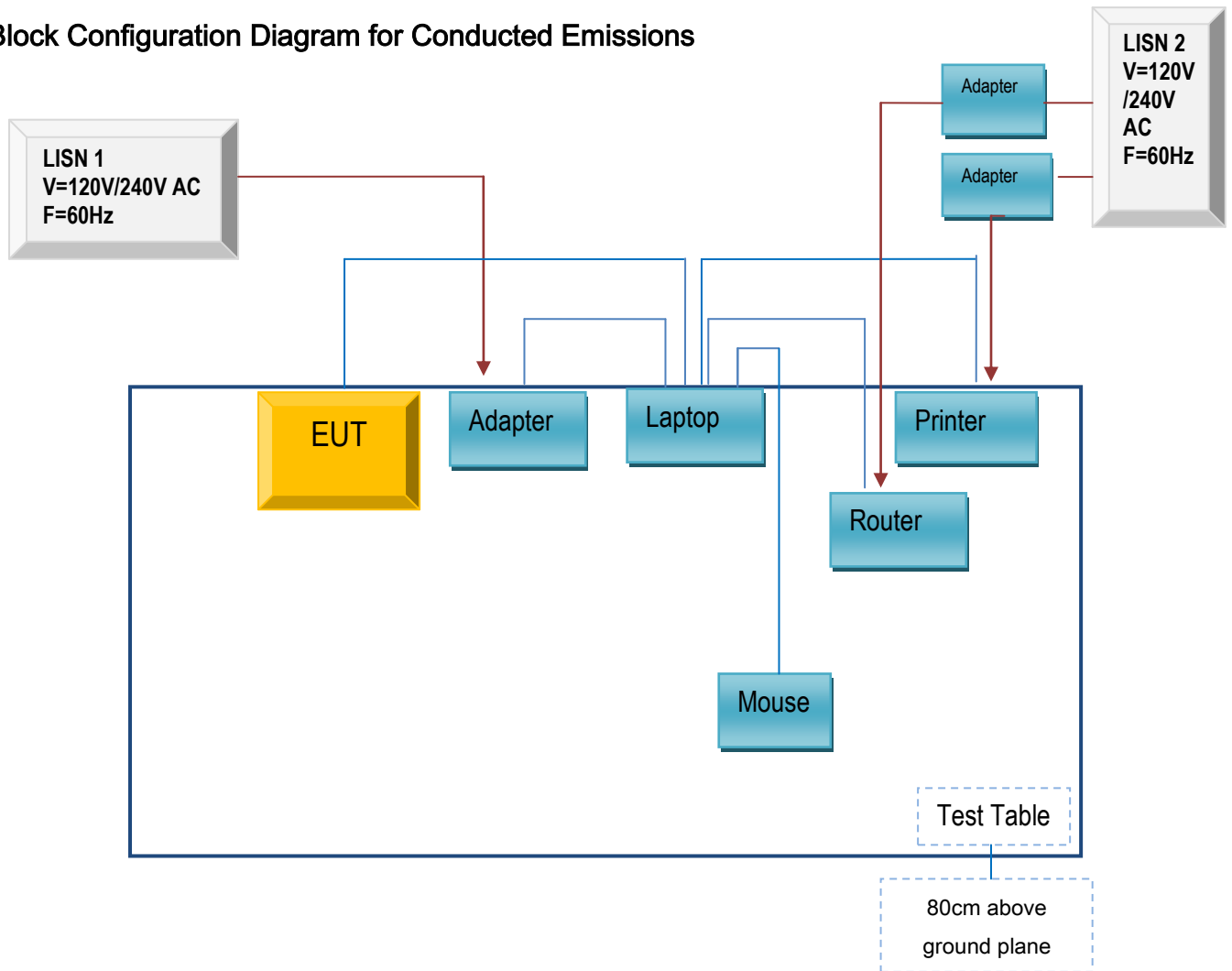


Radiated Emissions Test Setup Above 1GHz

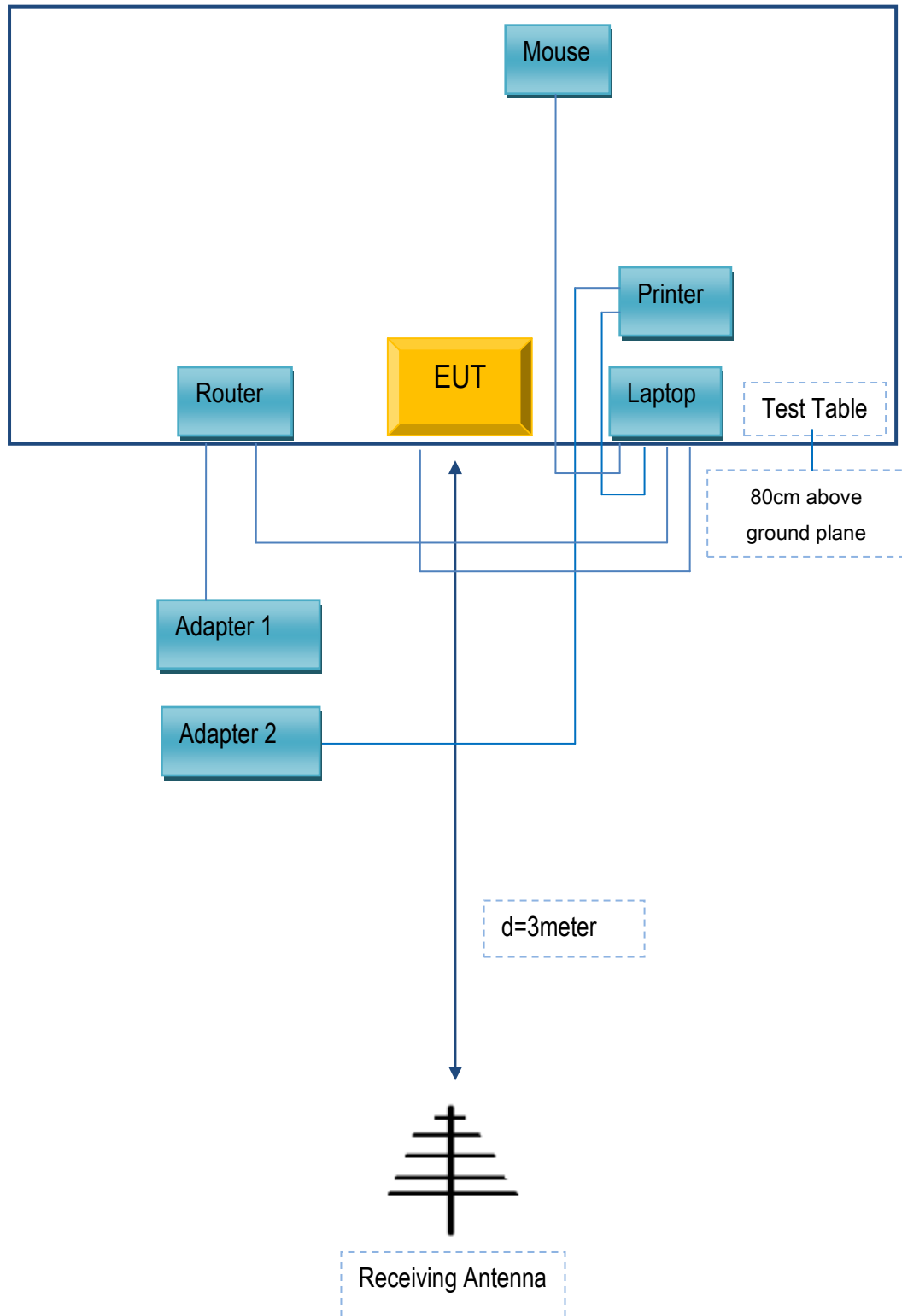
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions



### Block Configuration Diagram for Radiated Emissions



## Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

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

### Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
Lenovo	AC Adapter	42T4416	21D9JU
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203

### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	2m	JX120051274
USB Cable	Un-shielding	No	2m	CBA3000AH0C1
RJ45 Cable	Un-shielding	No	2m	KX156327541
Router Power cable	Un-shielding	No	2m	13274630Z
Printer Power cable	Un-shielding	No	2m	127581031
Power Cable	Un-shielding	No	0.8m	GT211032

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**Annex D. User Manual / Block Diagram / Schematics / Partlist**

Please see the attachment

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## Annex E. DECLARATION OF SIMILARITY

N/A