

# EMC TEST REPORT



Report No.: 16070923-FCC-E

Supersede Report No: N/A

Applicant	SMT TELECOMM HK LIMITED		
Product Name	Mobile Phone		
Model No.	M488		
Serial No.	N/A		
Test Standard	FCC Part 15 Subpart B Class B:2015, ANSI C63.4: 2014		
Test Date	August 23 to September 05, 2016		
Issue Date	September 06, 2016		
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"/>	
Loren Luo	David Huang		
Loren Luo 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

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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070923-FCC-E	NONE	Original	September 06, 2016

## 2. Customer information

Applicant Name	SMT TELECOMM HK LIMITED
Applicant Add	Unit C 8/F, CHARMHILL CTR 50 HILLWOOD RD TST KL
Manufacturer	SMT TELECOMM HK LIMITED
Manufacturer Add	Unit C 8/F, CHARMHILL CTR 50 HILLWOOD RD TST KL

## 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	Radiated Emission Program-To Shenzhen v2.0

#### **4. Equipment under Test (EUT) Information**

Description of EUT: Mobile Phone

Main Model: M488

Serial Model: N/A

GSM850: 0.8dBi

PCS1900: 1dBi

Antenna Gain: UMTS-FDD Band V: 1dBi

UMTS-FDD Band II: 1dBi

Bluetooth/BLE/WIFI: 1dBi

GPS: 1dBi

Antenna Type: PIFA antenna

Adapter:

Model: PC488

Input: AC100-240V~50/60Hz,0.15A

Output: DC 5.0V-500mA

Input Power: Battery:

Model: BPM488

Voltage: 3.7V

Battery Capacity: 1400mAh

Charging limit voltage: 4.2V

Equipment Category : JBP

GSM / GPRS: GMSK

EGPRS: GMSK

UMTS-FDD: QPSK

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

GPS:BPSK

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GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz  
 PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz  
 UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz  
 UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;  
 RF Operating Frequency (ies): RX: 1932.4 ~ 1987.6 MHz  
 WIFI: 802.11b/g/n(20M): 2412-2462 MHz  
 WIFI: 802.11n(40M): 2422-2452 MHz  
 Bluetooth& BLE: 2402-2480 MHz  
 GPS: 1575.42 MHz

GSM 850: 124CH  
 PCS1900: 299CH  
 UMTS-FDD Band V: 102CH  
 UMTS-FDD Band II: 277CH  
 Number of Channels:  
 WIFI :802.11b/g/n(20M): 11CH  
 WIFI :802.11n(40M): 7CH  
 Bluetooth: 79CH  
 BLE: 40CH  
 GPS:1CH

Port: Power Port, Earphone Port, USB Port

Trade Name : N/A

FCC ID: 2AIMEM488

Date EUT received: August 22, 2016

Test Date(s): August 23 to September 05, 2016

## 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

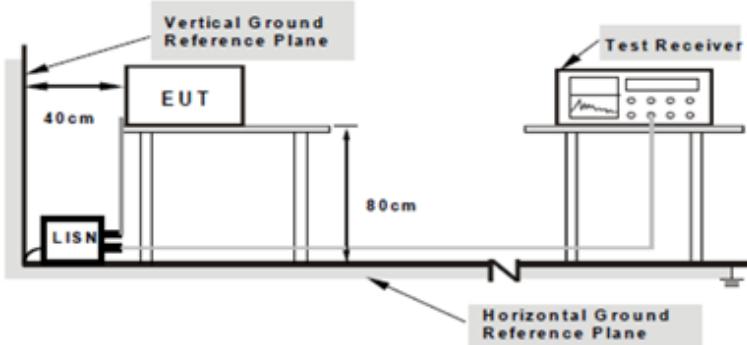
Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	24°C
Relative Humidity	53%
Atmospheric Pressure	1001mbar
Test date :	September 01, 2016
Tested By :	Loren Luo

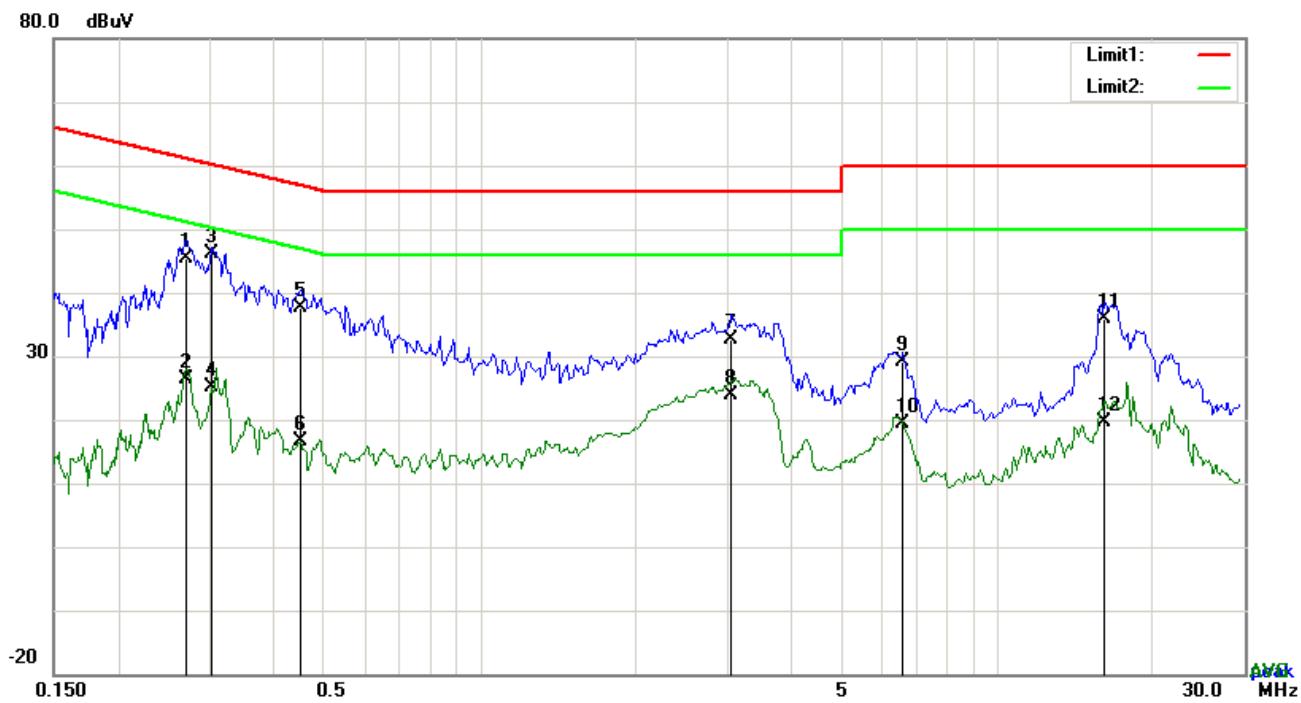
#### Requirement(s):

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 (dB<math>\mu</math>V)</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 (dB $\mu$ V)		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 (dB $\mu$ V)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															
Test Setup	 <p>The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a table. A LISN (Line Impedance Stabilization Network) is connected between the EUT and the power source. A Test Receiver is connected to the LISN. The setup is positioned on a horizontal ground reference plane. The distance between the LISN and the EUT is 40 cm, and the distance between the LISN and the Test Receiver is 80 cm. A vertical ground reference plane is also indicated.</p> <p><b>Note:</b>    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>																
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>																

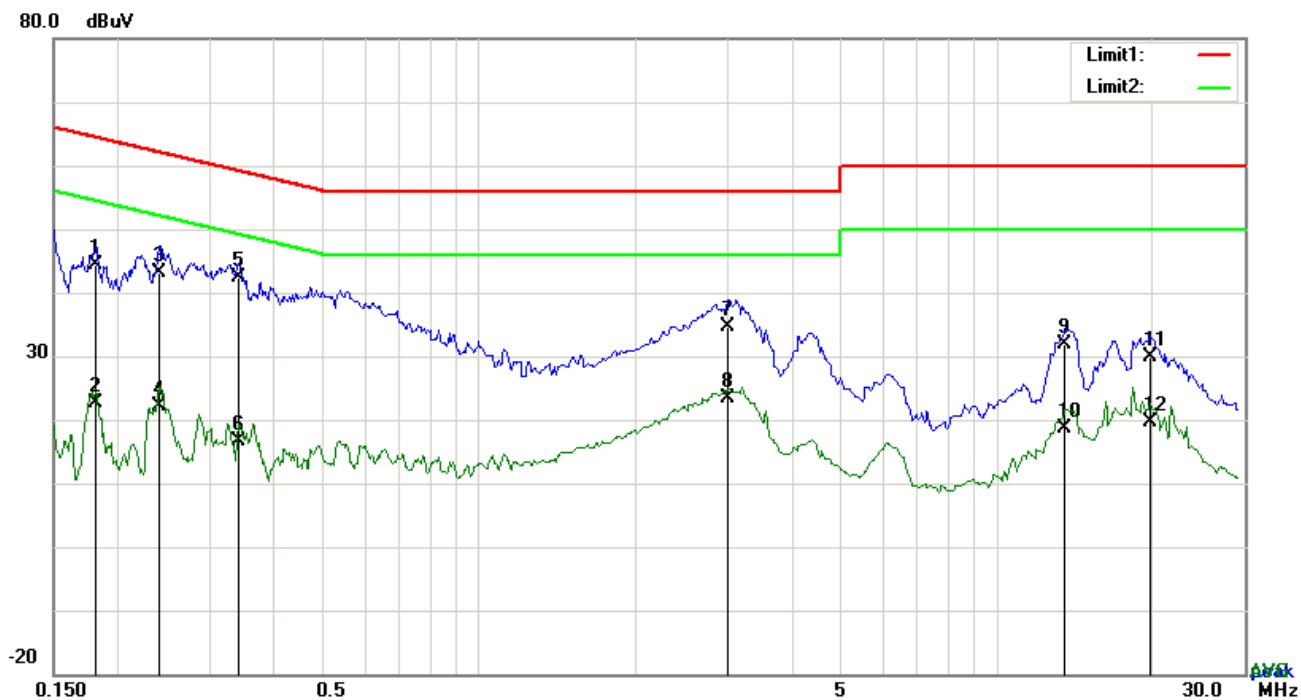
	<ol style="list-style-type: none"> <li>3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>4. All other supporting equipment were powered separately from another main supply.</li> <li>5. The EUT was switched on and allowed to warm up to its normal 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

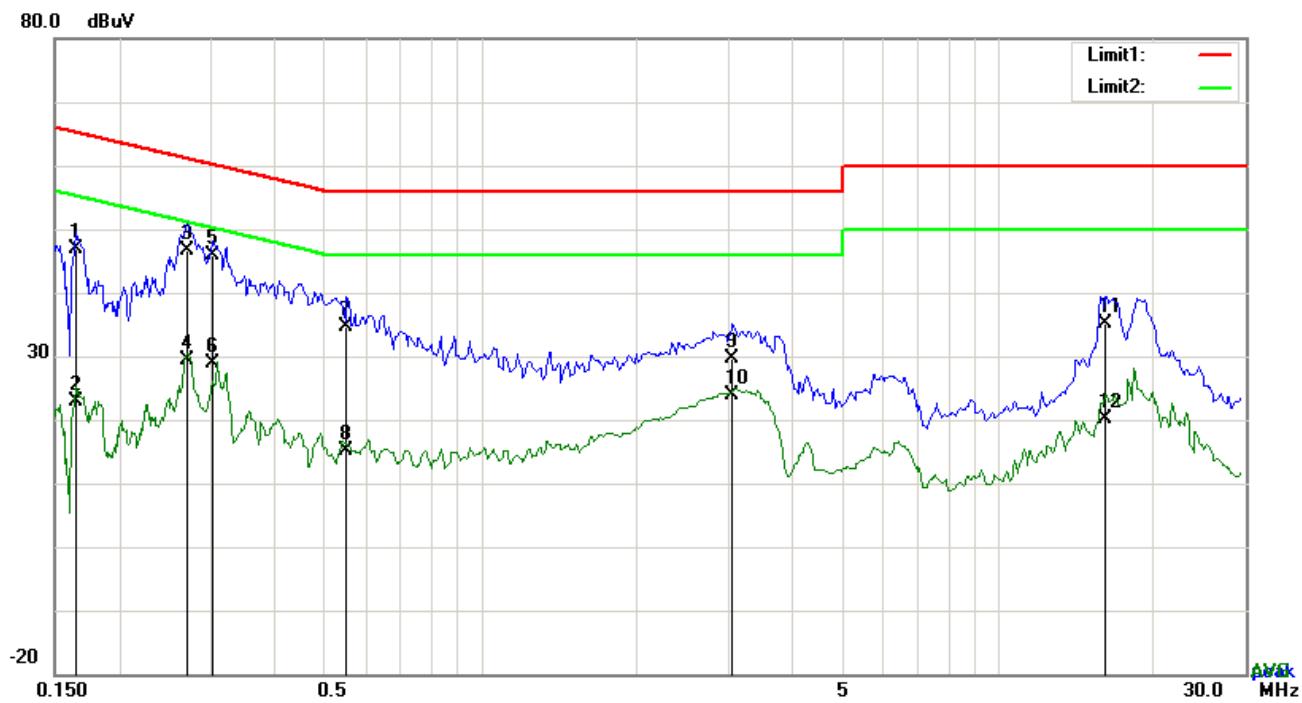
Test Plot  Yes (See below)  N/A

**Test Mode : USB Mode**

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

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.2709	35.38	QP	10.03	45.41	61.09	-15.68
2	L1	0.2709	16.46	AVG	10.03	26.49	51.09	-24.60
3	L1	0.3035	36.14	QP	10.03	46.17	60.15	-13.98
4	L1	0.3035	15.09	AVG	10.03	25.12	50.15	-25.03
5	L1	0.4492	27.71	QP	10.03	37.74	56.89	-19.15
6	L1	0.4492	6.57	AVG	10.03	16.60	46.89	-30.29
7	L1	3.0624	22.53	QP	10.06	32.59	56.00	-23.41
8	L1	3.0624	13.79	AVG	10.06	23.85	46.00	-22.15
9	L1	6.5919	18.98	QP	10.10	29.08	60.00	-30.92
10	L1	6.5919	9.22	AVG	10.10	19.32	50.00	-30.68
11	L1	16.1313	25.66	QP	10.24	35.90	60.00	-24.10
12	L1	16.1313	9.48	AVG	10.24	19.72	50.00	-30.28

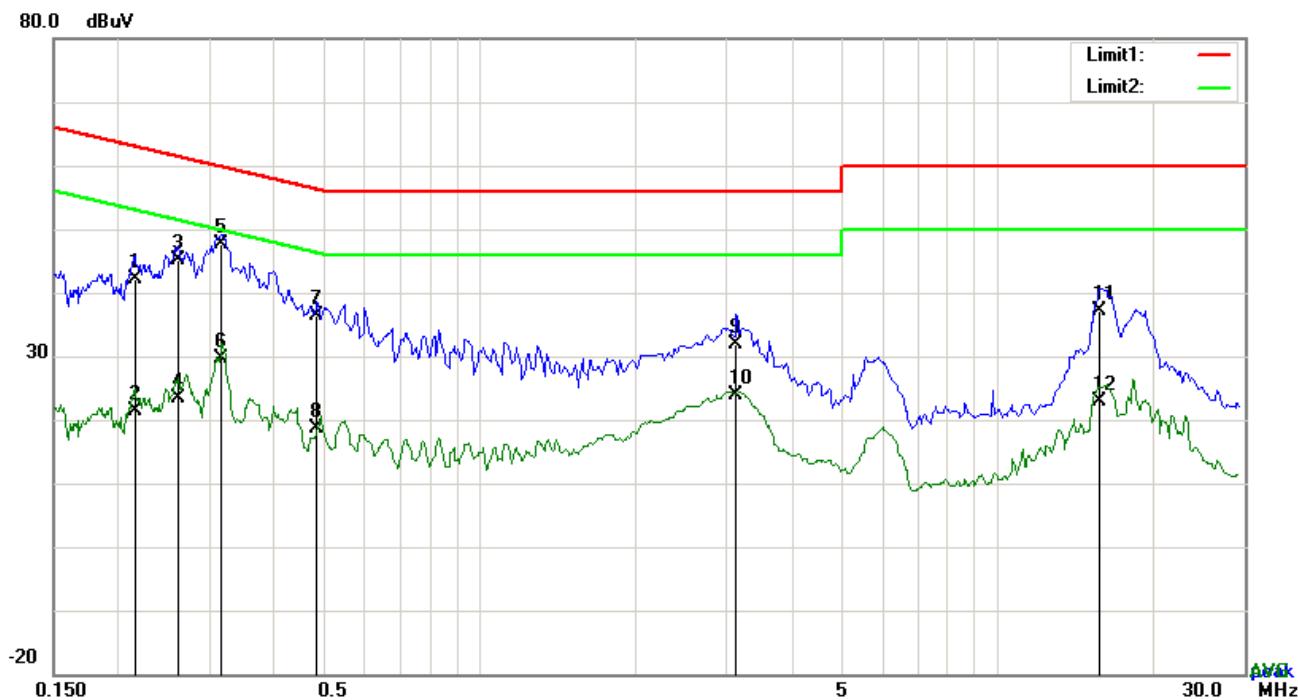
**Test Mode :** USB Mode

**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	0.1812	34.37	QP	10.02	44.39	64.43	-20.04
2	N	0.1812	12.55	AVG	10.02	22.57	54.43	-31.86
3	N	0.2397	33.06	QP	10.02	43.08	62.11	-19.03
4	N	0.2397	12.19	AVG	10.02	22.21	52.11	-29.90
5	N	0.3411	32.28	QP	10.02	42.30	59.18	-16.88
6	N	0.3411	6.67	AVG	10.02	16.69	49.18	-32.49
7	N	3.0234	24.50	QP	10.05	34.55	56.00	-21.45
8	N	3.0234	13.23	AVG	10.05	23.28	46.00	-22.72
9	N	13.4988	21.68	QP	10.18	31.86	60.00	-28.14
10	N	13.4988	8.46	AVG	10.18	18.64	50.00	-31.36
11	N	19.6452	19.73	QP	10.26	29.99	60.00	-30.01
12	N	19.6452	9.33	AVG	10.26	19.59	50.00	-30.41

**Test Mode :** USB Mode

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

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.1656	36.95	QP	10.03	46.98	65.18	-18.20
2	L1	0.1656	12.86	AVG	10.03	22.89	55.18	-32.29
3	L1	0.2709	36.48	QP	10.03	46.51	61.09	-14.58
4	L1	0.2709	19.46	AVG	10.03	29.49	51.09	-21.60
5	L1	0.3035	35.88	QP	10.03	45.91	60.15	-14.24
6	L1	0.3035	18.75	AVG	10.03	28.78	50.15	-21.37
7	L1	0.5517	24.61	QP	10.03	34.64	56.00	-21.36
8	L1	0.5517	5.03	AVG	10.03	15.06	46.00	-30.94
9	L1	3.0624	19.55	QP	10.06	29.61	56.00	-26.39
10	L1	3.0624	13.71	AVG	10.06	23.77	46.00	-22.23
11	L1	16.1313	24.89	QP	10.24	35.13	60.00	-24.87
12	L1	16.1313	9.93	AVG	10.24	20.17	50.00	-29.83

Test Mode : USB Mode



**Test Data**

Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.2151	32.12	QP	10.02	42.14	63.01	-20.87
2	N	0.2151	11.40	AVG	10.02	21.42	53.01	-31.59
3	N	0.2616	35.03	QP	10.02	45.05	61.38	-16.33
4	N	0.2616	13.30	AVG	10.02	23.32	51.38	-28.06
5	N	0.3177	37.61	QP	10.02	47.63	59.77	-12.14
6	N	0.3177	19.50	AVG	10.02	29.52	49.77	-20.25
7	N	0.4854	26.46	QP	10.02	36.48	56.25	-19.77
8	N	0.4854	8.67	AVG	10.02	18.69	46.25	-27.56
9	N	3.1365	21.89	QP	10.05	31.94	56.00	-24.06
10	N	3.1365	13.74	AVG	10.05	23.79	46.00	-22.21
11	N	15.7218	26.89	QP	10.21	37.10	60.00	-22.90
12	N	15.7218	12.65	AVG	10.21	22.86	50.00	-27.14

## 6.2 Radiated Emissions

Temperature	24°C
Relative Humidity	53%
Atmospheric Pressure	1001mbar
Test date :	September 01, 2016
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.109(d)	a)	<p>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</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (<math>\mu</math>V/m)</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 ( $\mu$ V/m)	30 – 88	100	88 – 216	150	216 – 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength ( $\mu$ V/m)												
30 – 88	100												
88 – 216	150												
216 – 960	200												
Above 960	500												
Test Setup	 <p>The diagram illustrates the test setup. A 'Turn Table' is positioned on a 'Ground Plane'. An 'EUT &amp; Support Units' is mounted on the turn table, with a vertical distance of '80cm' indicated. A '3m' horizontal distance is marked between the EUT and a 'Ant. Tower'. The 'Ant. Tower' is a vertical mast mounted on a base, with a '1-4m Variable' height adjustment mechanism. A 'Test Receiver' is connected to the base of the antenna tower, showing a waveform on its screen.</p>												
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>												

	<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.</p> <p>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.</p> <ul style="list-style-type: none"> <li>■ 1 kHz (Duty cycle &lt; 98%) <input type="checkbox"/> 10 Hz (Duty cycle &gt; 98%)</li> </ul> <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*

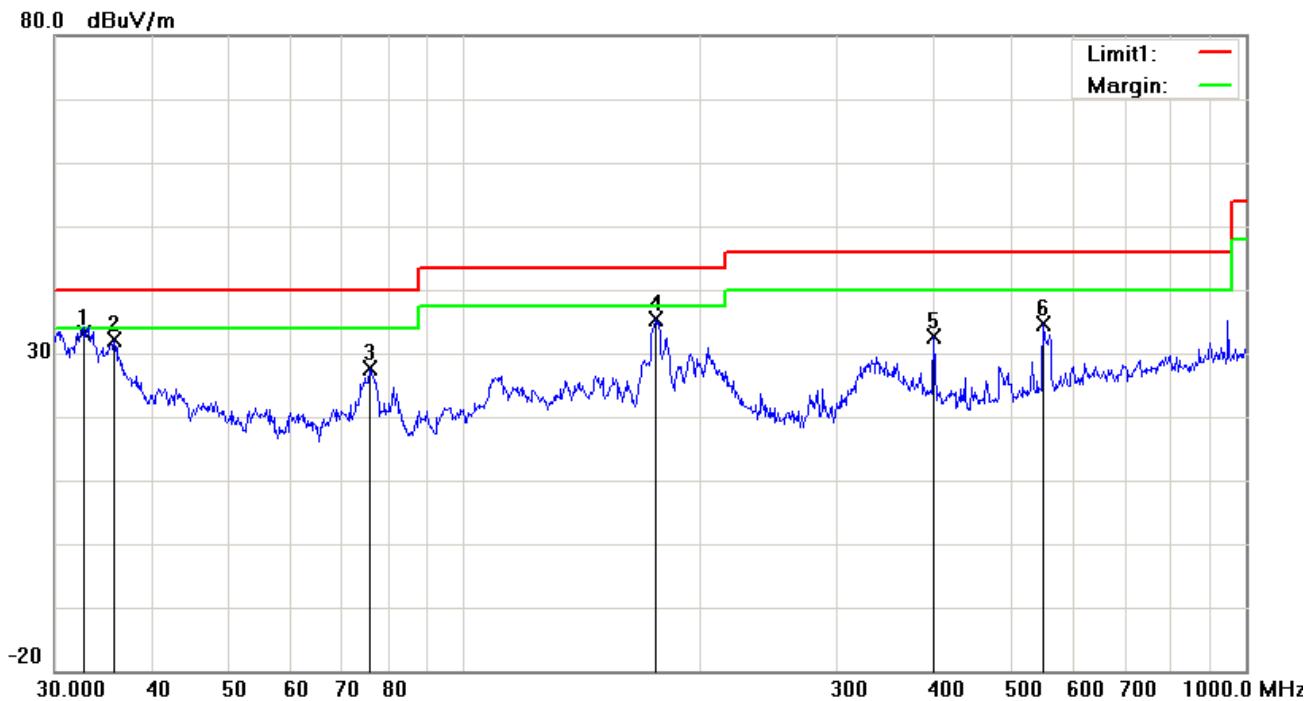


*Test Data*

Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Readin g (dBuV/ m)	Detector	Corrected (dB/m)	Result (dBuV/m )	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree
1	H	75.7114	38.12	peak	-13.74	24.38	40.00	-15.62	100	65
2	H	176.8878	46.93	QP	-9.64	37.29	43.50	-6.21	100	97
3	H	239.9873	42.03	peak	-9.10	32.93	46.00	-13.07	100	24
4	H	332.5187	35.50	peak	-5.97	29.53	46.00	-16.47	100	254
5	H	400.4319	35.69	peak	-4.29	31.40	46.00	-14.60	100	128
6	H	560.6928	33.82	peak	-0.64	33.18	46.00	-12.82	100	360

**Below 1GHz**



**Test Data**

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	32.6340	35.25	QP	-2.20	33.05	40.00	-6.95	100	238
2	V	35.7491	36.57	peak	-4.49	32.08	40.00	-7.92	100	108
3	V	75.7114	41.43	peak	-13.74	27.69	40.00	-12.31	100	92
4	V	175.6516	44.96	peak	-9.54	35.42	43.50	-8.08	100	56
5	V	399.0302	36.83	peak	-4.32	32.51	46.00	-13.49	100	360
6	V	550.9480	35.52	peak	-0.80	34.72	46.00	-11.28	100	0

**Above 1GHz**

Frequency (MHz)	Amplitude (dB $\mu$ V/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector (PK/AV)
1522.47	50.57	87	166	V	-22.15	74	-23.43	PK
2033.58	49.34	95	121	V	-23.22	74	-24.66	PK
1645.72	50.26	65	169	V	-22.57	74	-23.74	PK
2169.15	49.66	77	170	H	-23.33	74	-24.34	PK
2858.24	48.15	44	150	H	-22.47	74	-25.85	PK
1877.35	50.33	88	141	H	-22.44	74	-23.67	PK

*Note1: The highest frequency of the EUT is 2480 MHz, so the testing has been conformed to 5\*2472MHz=12,360MHz.*

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

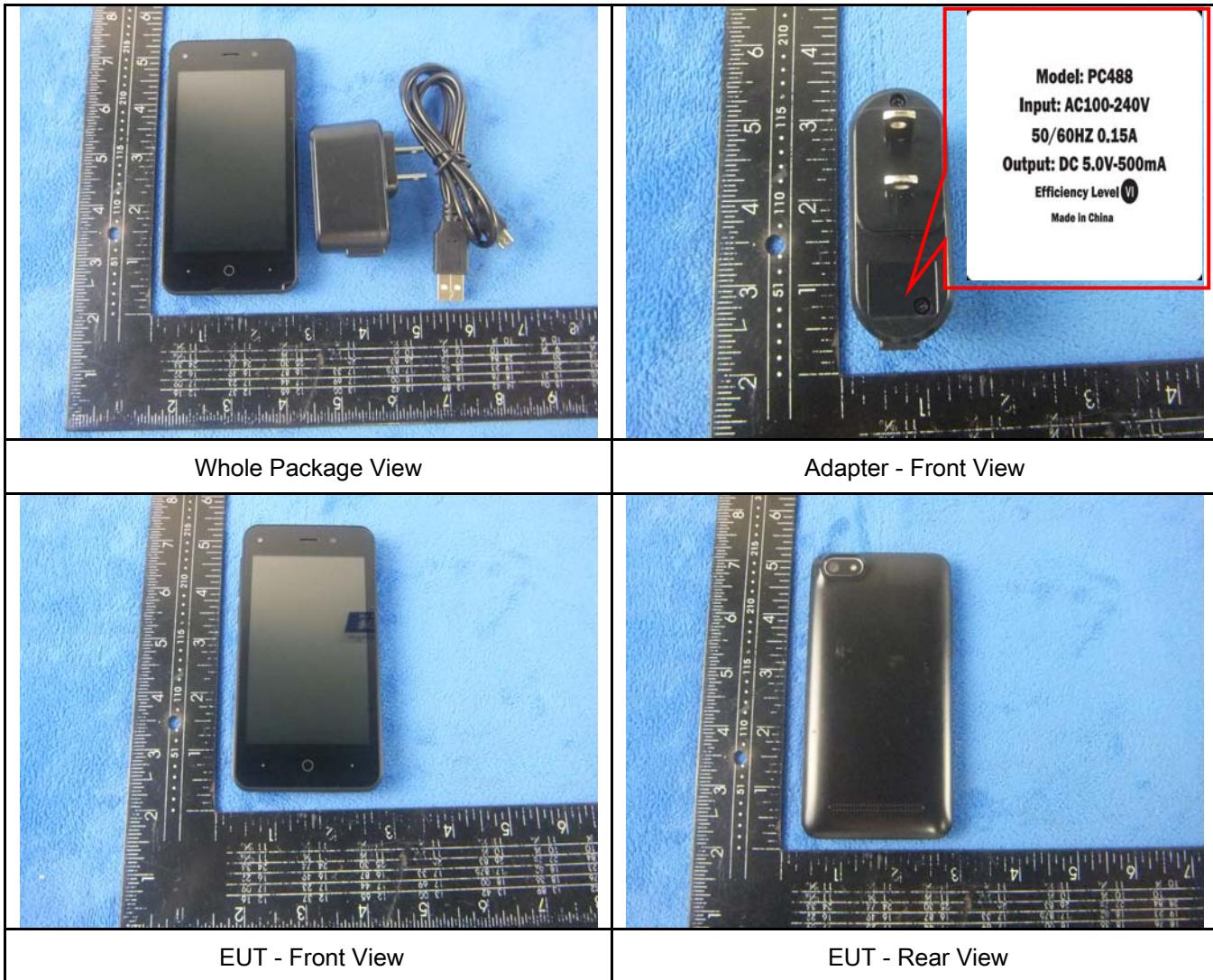
*Note3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.*

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>AC Line Conducted Emissions</b>					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191106	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
Line Impedance Stabilization Network	LI-125A	191107	09/25/2015	09/24/2016	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/25/2015	09/24/2016	<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	09/17/2015	09/16/2016	<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	03/24/2016	03/23/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna	AH-118	71259	09/24/2015	09/23/2016	<input checked="" type="checkbox"/>

## Annex B. EUT And Test Setup Photographs

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





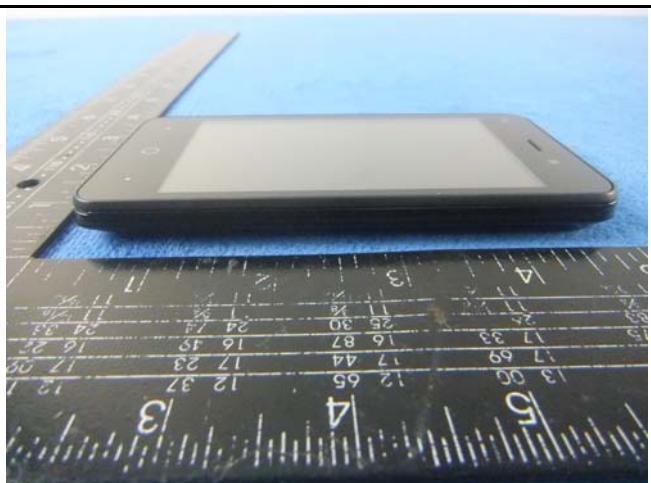
EUT - Top View



EUT - Bottom View

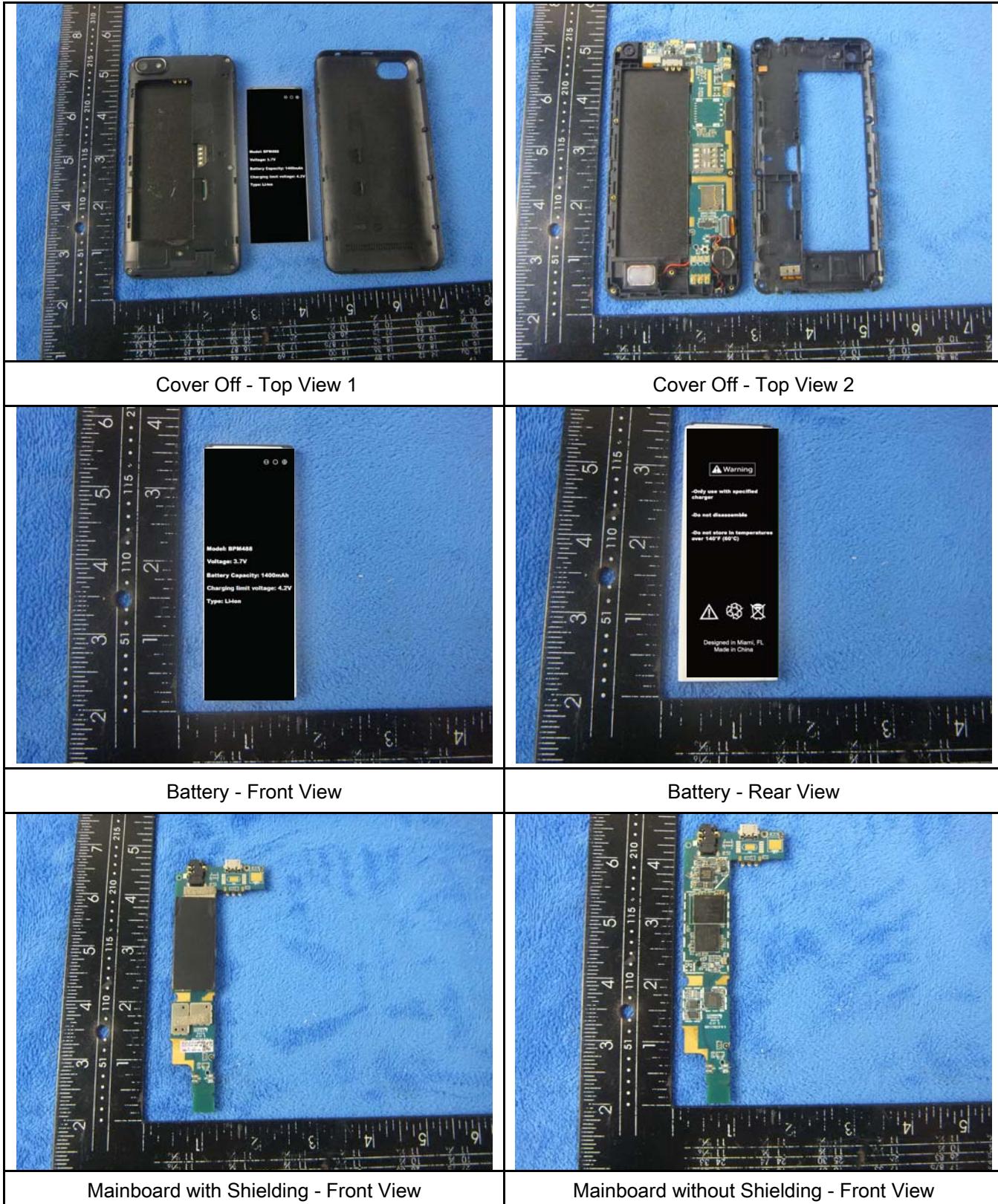


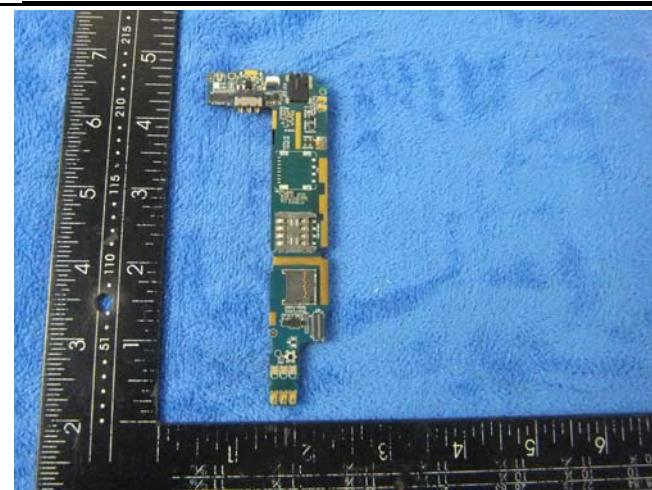
EUT - Left View



EUT - Right View

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





Mainboard - Rear View



LCD – Front View



LCD – Rear View

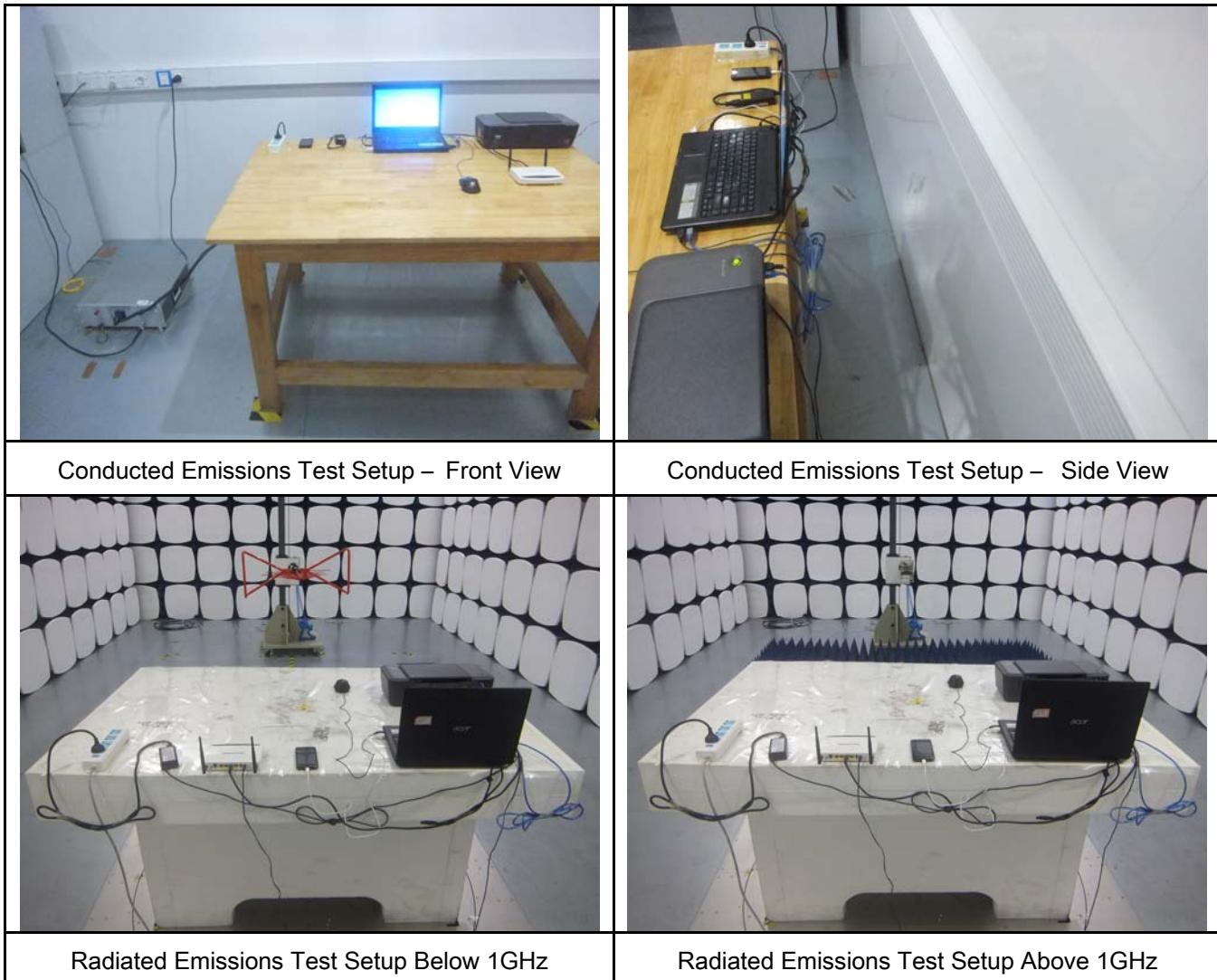


GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE/GPS - Antenna View

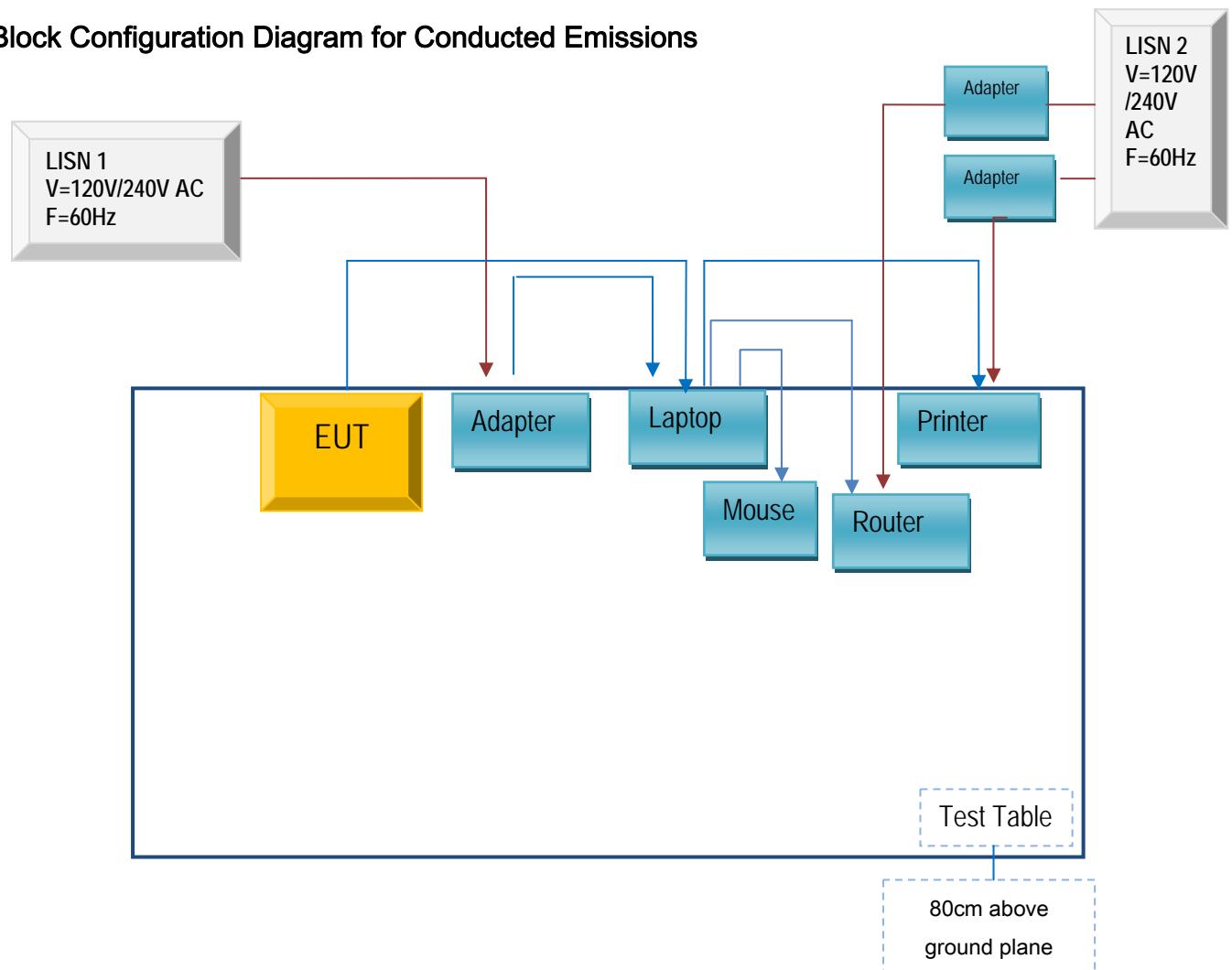
**Annex B.iii. Photograph: Test Setup Photo**



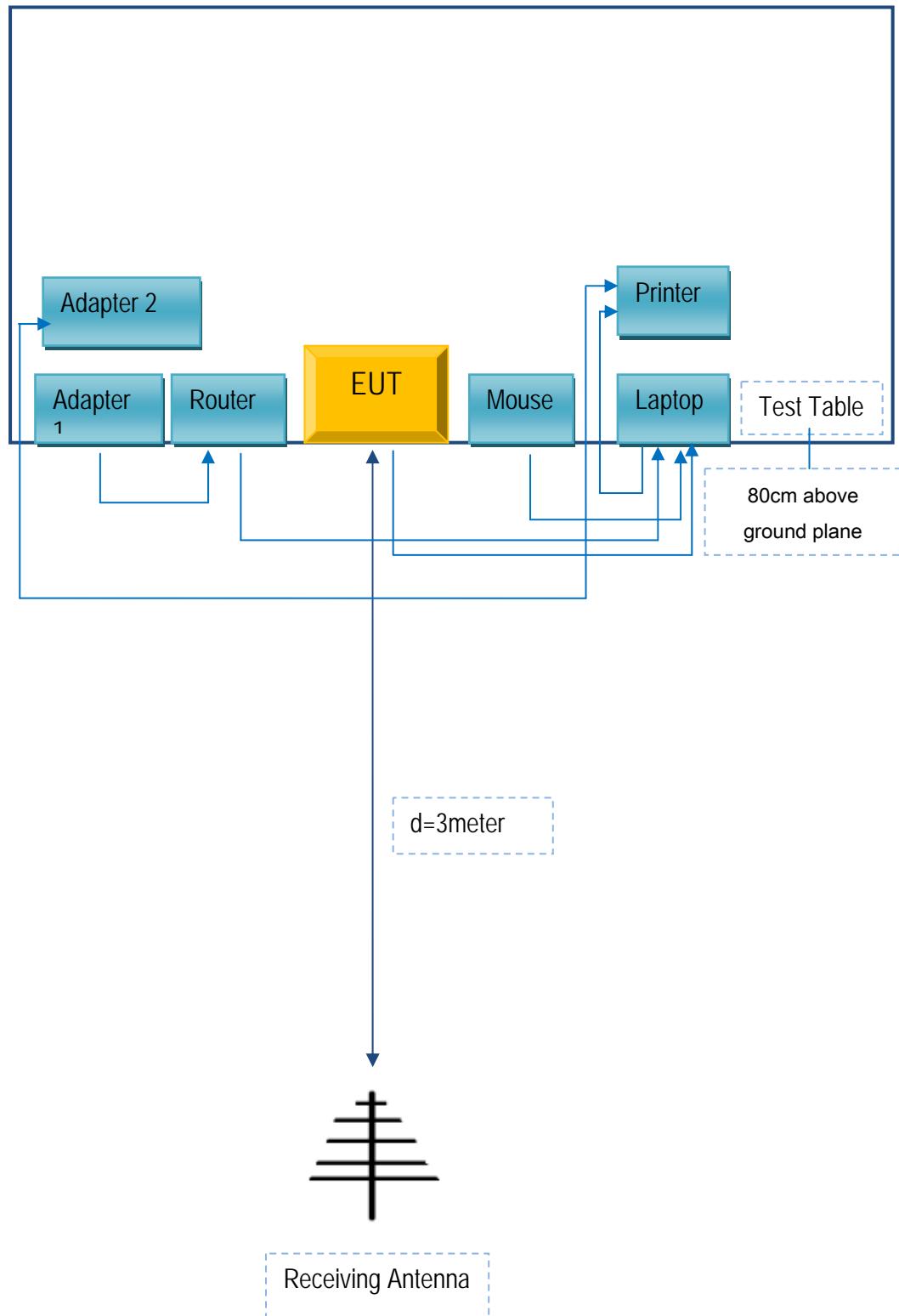
## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### 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
SMT TELECOMM HK LIMITED	Adapter	PC488	D2156273
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

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

Please see the attachment

## Annex E. DECLARATION OF SIMILARITY

N/A