# EMC TEST REPORT



Report No.: 16070816-FCC-E Supersede Report No: N/A

Applicant	MOBIWIRE MOBILES (NINGBO) CO.,LTD			
Product Name	4G LTE SMARTPHONE			
Model No.	N551	N551		
Serial No.	N/A			
Test Standard	FCC Part 15 Subpart B Class B:2015, ANSI C63.4: 2014			
Test Date	July 19 to August 14, 2016			
Issue Date	August 15, 2016			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Loven	Tho	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
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### **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.



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#### **Accreditations for Conformity Assessment**

Country/Region	Scope
- Country in togicin	Собра
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
16070816-FCC-E	NONE	Original	August 15, 2016

### 2. Customer information

Applicant Name	MOBIWIRE MOBILES (NINGBO) CO.,LTD
Applicant Add	No.999,Dacheng East Road,Fenghua City,Zhejiang
Manufacturer	MOBIWIRE MOBILES (NINGBO) CO.,LTD
Manufacturer Add	No.999,Dacheng East Road,Fenghua City,Zhejiang

### 3. Test site information

	1	
Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	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	



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

Description of EUT:	4G LTE SMARTPHONE

Main Model: N551

Serial Model: N/A

GSM850: -3dBi

PCS1900: -1dBi

UMTS-FDD Band V: -3dBi

Antenna Gain: UMTS-FDD Band II:-1dBi

LTE Band IV: -3dBi

Bluetooth/BLE/WIFI: -1dBi

GPS: -1dBi

Antenna Type: PIFA antenna

Adapter:

Model: S005UA0500100

Input: AC100-240V~50/60Hz,150mA

Input Power:
Output: DC 5.0V,1000mA

Battery:

Spec: 3.8V,3000mAh(11.4Wh)

Equipment Category: JBP

GSM / GPRS: GMSK

EGPRS: GMSK,8PSK

UMTS-FDD: QPSK

LTE Band: QPSK, 16QAM Type of Modulation:

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK,  $\pi$  /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;

RX: 1932.4 ~ 1987.6 MHz

RF Operating Frequency (ies):

LTE Band IV TX: 1712.5 ~ 1752.5 MHz; RX: 2112.5 ~ 2152.5 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:

Noblex

FCC ID:

2ADA4N551

Date EUT received:

July 18, 2016

Test Date(s):

July 19 to August 14, 2016



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### 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		
-	-	-		



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## 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	24°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	July 27, 2016
Tested By:	Loren Luo

#### Requirement(s):

Spec	Item	Requirement Applicable				
47CFR§15.	a)	connected to the public voltage that is conducte frequency or frequencien not exceed the limits in	radio-frequency devices that is designed to be e public utility (AC) power line, the radio frequency conducted back onto the AC power line on any equencies, within the band 150 kHz to 30 MHz, shall limits in the following table, as measured using a 50 s line impedance stabilization network (LISN). The			
107		Frequency ranges	Limit (	dBμV)		
		(MHz)	QP	Average		
		0.15 ~ 0.5	66 – 56	56 – 46		
		0.5 ~ 5	56	46		
		5 ~ 30	60	50		
Test Setup	Vertical Ground Reference Plane  EUT  80cm  Horizontal Ground					
	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.					
Procedure	<ol> <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</li> </ol>					
Procedure	2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.  1. The EUT and supporting equipment were set up in accordance with the re the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.					



Yes

Test Data

Test Plot

□<sub>N/A</sub>

Yes (See below)

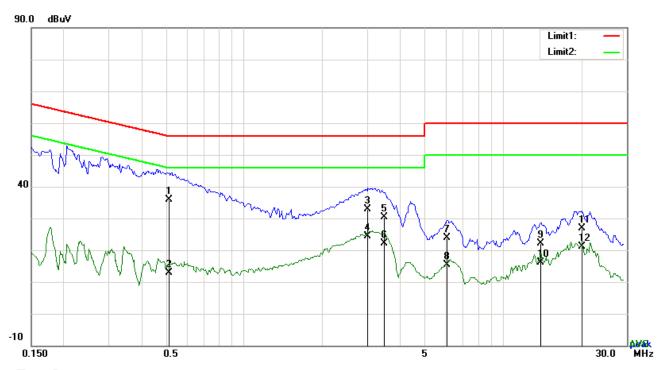
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	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	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.
	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 bandwidt
	setting of 10 kHz.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	Pass Fail



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Test Mode : USB Mode



#### Test Data

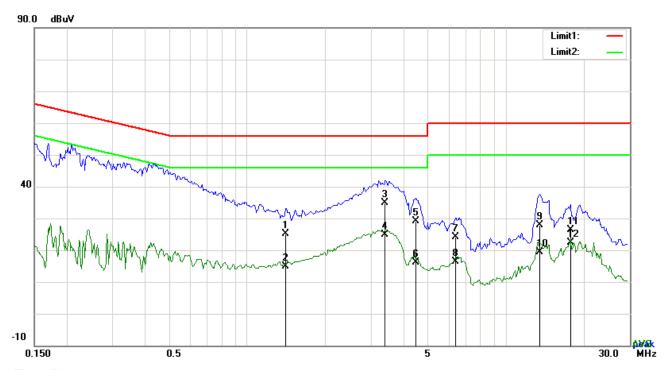
#### Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.5101	25.83	QP	10.03	35.86	56.00	-20.14
2	L1	0.5101	2.90	AVG	10.03	12.93	46.00	-33.07
3	L1	2.9970	22.91	QP	10.05	32.96	56.00	-23.04
4	L1	2.9970	14.22	AVG	10.05	24.27	46.00	-21.73
5	L1	3.4722	20.35	QP	10.06	30.41	56.00	-25.59
6	L1	3.4722	11.97	AVG	10.06	22.03	46.00	-23.97
7	L1	6.0810	13.78	QP	10.10	23.88	60.00	-36.12
8	L1	6.0810	5.38	AVG	10.10	15.48	50.00	-34.52
9	L1	13.9785	11.93	QP	10.21	22.14	60.00	-37.86
10	L1	13.9785	5.94	AVG	10.21	16.15	50.00	-33.85
11	L1	20.0625	16.68	QP	10.30	26.98	60.00	-33.02
12	L1	20.0625	10.90	AVG	10.30	21.20	50.00	-28.80



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Test Mode :
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#### Test Data

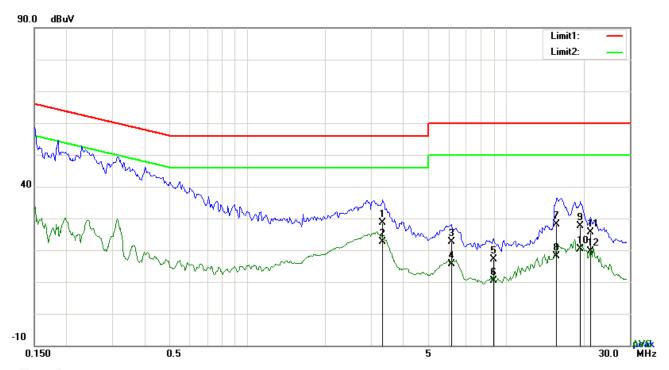
#### Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	1.4097	14.99	QP	10.03	25.02	56.00	-30.98
2	Ν	1.4097	4.93	AVG	10.03	14.96	46.00	-31.04
3	Ν	3.4134	24.71	QP	10.05	34.76	56.00	-21.24
4	N	3.4134	14.86	AVG	10.05	24.91	46.00	-21.09
5	Ν	4.4820	19.05	QP	10.06	29.11	56.00	-26.89
6	Ν	4.4820	6.00	AVG	10.06	16.06	46.00	-29.94
7	Ν	6.3852	13.95	QP	10.09	24.04	60.00	-35.96
8	N	6.3852	6.23	AVG	10.09	16.32	50.00	-33.68
9	N	13.4715	17.78	QP	10.18	27.96	60.00	-32.04
10	N	13.4715	9.14	AVG	10.18	19.32	50.00	-30.68
11	N	17.6952	16.15	QP	10.23	26.38	60.00	-33.62
12	N	17.6952	12.09	AVG	10.23	22.32	50.00	-27.68



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Test Mode :
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#### Test Data

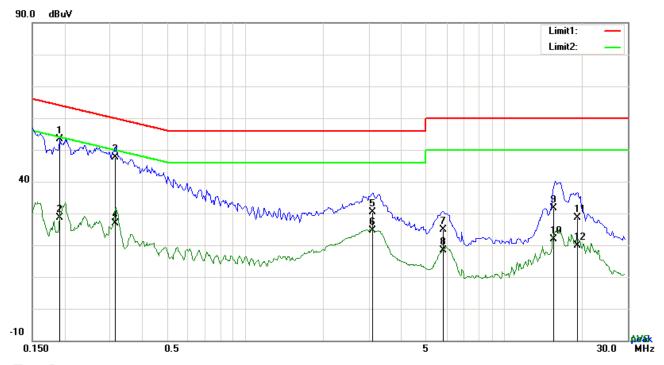
#### Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	3.3354	18.60	QP	10.06	28.66	56.00	-27.34
2	L1	3.3354	12.60	AVG	10.06	22.66	46.00	-23.34
3	L1	6.1512	12.53	QP	10.10	22.63	60.00	-37.37
4	L1	6.1512	5.61	AVG	10.10	15.71	50.00	-34.29
5	L1	8.9319	6.90	QP	10.14	17.04	60.00	-42.96
6	L1	8.9319	0.25	AVG	10.14	10.39	50.00	-39.61
7	L1	15.7101	17.79	QP	10.24	28.03	60.00	-31.97
8	L1	15.7101	7.92	AVG	10.24	18.16	50.00	-31.84
9	L1	19.3605	17.43	QP	10.29	27.72	60.00	-32.28
10	L1	19.3605	10.18	AVG	10.29	20.47	50.00	-29.53
11	L1	21.1740	15.27	QP	10.32	25.59	60.00	-34.41
12	L1	21.1740	9.29	AVG	10.32	19.61	50.00	-30.39



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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	0.1914	43.31	QP	10.02	53.33	63.98	-10.65
2	N	0.1914	18.59	AVG	10.02	28.61	53.98	-25.37
3	N	0.3138	37.71	QP	10.02	47.73	59.87	-12.14
4	N	0.3138	16.83	AVG	10.02	26.85	49.87	-23.02
5	N	3.0936	20.24	QP	10.05	30.29	56.00	-25.71
6	N	3.0936	14.46	AVG	10.05	24.51	46.00	-21.49
7	N	5.8236	14.82	QP	10.08	24.90	60.00	-35.10
8	N	5.8236	8.27	AVG	10.08	18.35	50.00	-31.65
9	N	15.4701	21.46	QP	10.21	31.67	60.00	-28.33
10	N	15.4701	11.62	AVG	10.21	21.83	50.00	-28.17
11	N	19.1967	18.46	QP	10.25	28.71	60.00	-31.29
12	N	19.1967	9.69	AVG	10.25	19.94	50.00	-30.06



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### 6.2 Radiated Emissions

Temperature	24°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	July 27, 2016
Tested By :	Loren Luo

#### Requirement(s):

Spec	Item	Requirement		Applicable		
47CFR§15. 109(d)	a)	Frequency range (MHz)       Field Strength (μV/m)         30 - 88       100         88 - 216       150         216 960       200				
		216 960 Above 960	200 500			
Test Setup	Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver					
Procedure	Procedure  1. The EUT was switched on and allowed to warm up to its normal operating condition 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 EU changing the antenna polarization, and adjusting the antenna height in the following manner: a. Vertical or horizontal polarization (whichever gave the higher emission leve			the EUT ating the EUT, the following		



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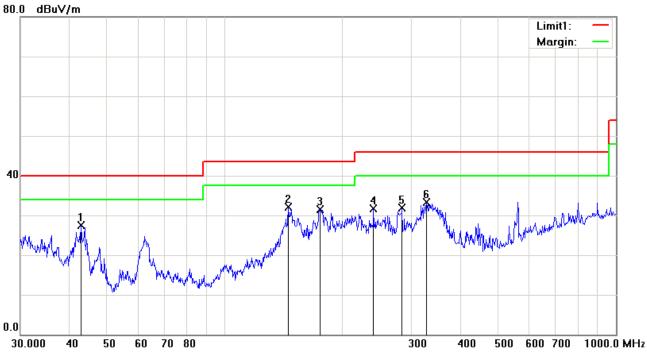
		over a full rotation of the EUT) was chosen.
	b.	The EUT was then rotated to the direction that gave the maximum
		emission.
	C.	Finally, the antenna height was adjusted to the height that gave the maximum
		emission.
	3. The	resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120	kHz for Quasiy Peak detection at frequency below 1GHz.
	4. The r	esolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	band	dwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GH	z.
	The	e resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	bar	dwidth with Peak detection for Average Measurement as below at frequency
	abo	ve 1GHz.
	■ 1	kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. Step	s 2 and 3 were repeated for the next frequency point, until all selected frequency
	poin	ts were measured.
Remark		
Dogult	Page	Пен
Result	Pass	<b>└</b> Fail
Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See be	elow)



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Test Mode : USB Mode

#### Below 1GHz



#### Test Data

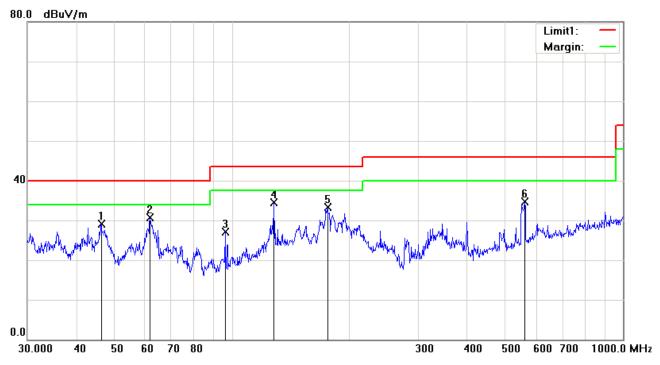
#### Horizontal Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m )	(dBuV/m)	(dB)	(cm)	( ° )
1	Н	42.8998	37.04	peak	-9.53	27.51	40.00	-12.49	100	32
2	Н	145.3506	40.64	peak	-8.46	32.18	43.50	-11.32	100	209
3	Н	175.0368	40.94	peak	-9.49	31.45	43.50	-12.05	100	156
4	Н	239.9873	40.72	peak	-9.10	31.62	46.00	-14.38	100	284
5	Н	283.9792	39.46	peak	-7.63	31.83	46.00	-14.17	100	261
6	Н	327.8873	39.31	peak	-6.09	33.22	46.00	-12.78	100	115



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#### Below 1GHz



#### Test Data

#### Vertical Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m )	(dBuV/m)	(dB)	(cm)	(°)
1	V	46.3402	40.74	peak	-11.54	29.20	40.00	-10.80	100	169
2	٧	61.7781	45.00	peak	-14.21	30.79	40.00	-9.21	100	263
3	٧	96.0986	39.04	peak	-11.84	27.20	43.50	-16.30	100	210
4	٧	128.1130	42.40	peak	-7.82	34.58	43.50	-8.92	100	154
5	V	175.6516	42.84	peak	-9.54	33.30	43.50	-10.20	100	98
6	V	560.6928	35.42	peak	-0.64	34.78	46.00	-11.22	100	143



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#### Above 1GHz

Frequency (MHz)	Amplitude (dΒμV/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV)
1537.22	50.25	88	161	V	-22.44	74	-23.75	PK
2045.15	49.33	98	125	V	-23.45	74	-24.67	PK
1668.45	50.14	66	171	V	-22.72	74	-23.86	PK
2133.41	49.75	73	180	Н	-23.62	74	-24.25	PK
2878.47	48.33	45	160	Н	-23.74	74	-25.67	PK
1886.63	50.24	83	135	Н	-22.81	74	-23.76	PK

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

Note 2: 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.



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### Annex A. TEST INSTRUMENT

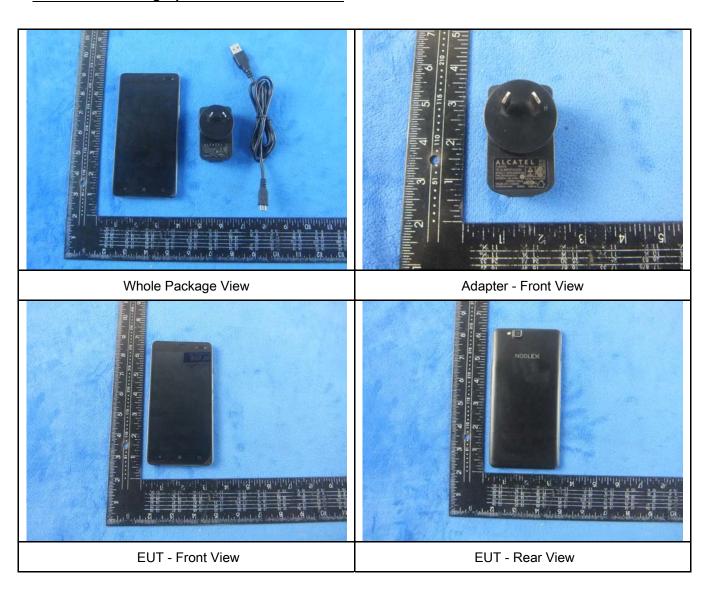
Instrument	Model	Serial #	Cal Date	Cal Due	In use			
AC Line Conducted Emissions								
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	•			
Line Impedance Stabilization Network	LI-125A	191106	09/25/2015	09/24/2016	V			
Line Impedance Stabilization Network	LI-125A	191107	09/25/2015	09/24/2016	<b>\</b>			
LISN	ISN T800	34373	09/25/2015	09/24/2016	<			
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	<			
Radiated Emissions								
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	~			
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	<b>(</b>			
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	<u>&lt;</u>			
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	<u>S</u>			
Double Ridge Horn Antenna	AH-118	71259	09/24/2015	09/23/2016	<u>S</u>			



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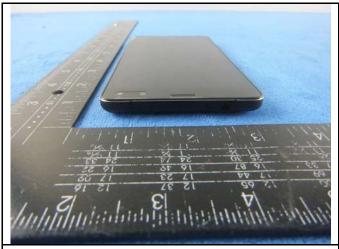
### Annex B. EUT And Test Setup Photographs

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

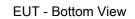




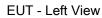
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EUT - Top View









EUT - Right View



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





Cover Off - Top View 1

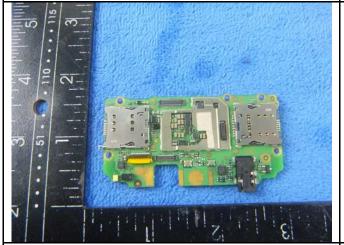








Battery - Rear View



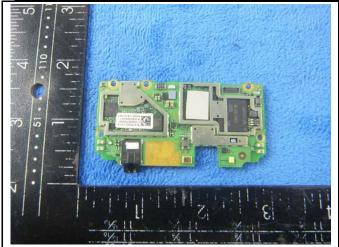
Mainboard with Shielding - Front View



Mainboard without Shielding - Front View



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Mainboard with Shielding - Rear View

Mainboard without Shielding - Rear View



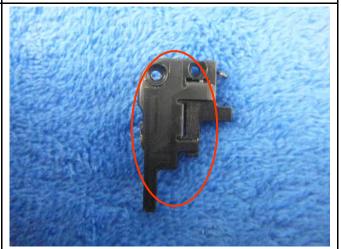


LCD - Front View

LCD - Rear View







WIFI/BT/BLE/GPS - Antenna View



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LTE Antenna View	

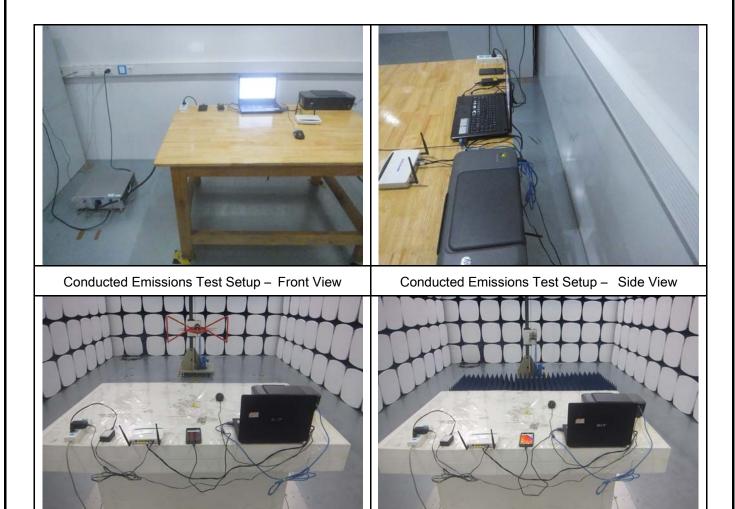


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Radiated Emissions Test Setup Above 1GHz

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

Radiated Emissions Test Setup Below 1GHz

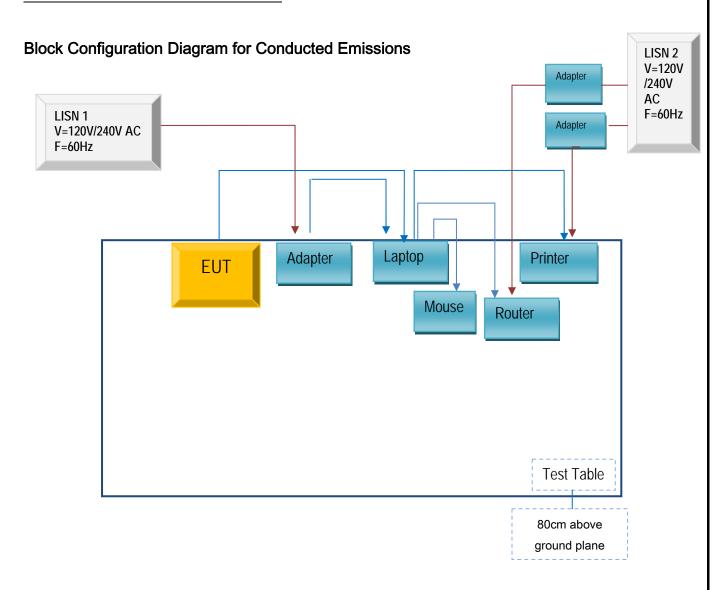




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### Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

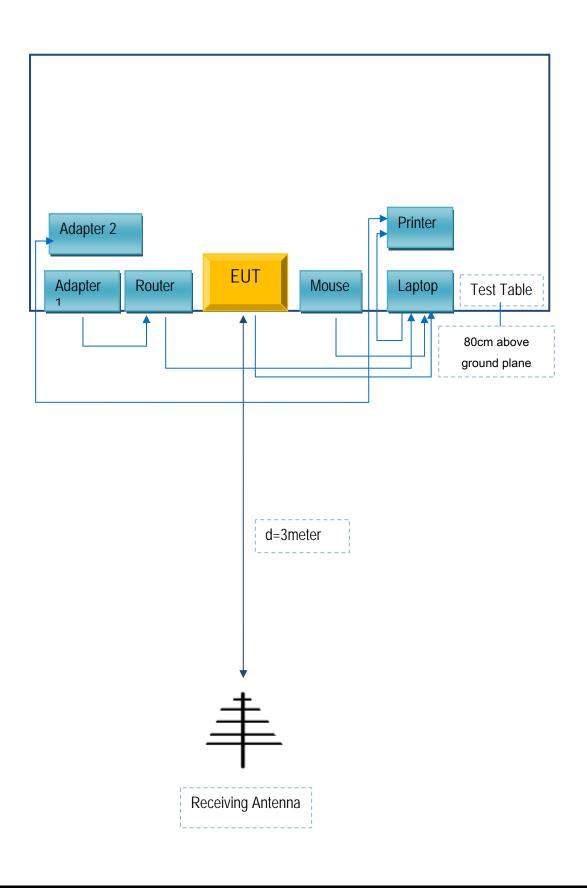
#### Annex C.ii. TEST SET UP BLOCK





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### **Block Configuration Diagram for Radiated Emissions**





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#### Annex C. il. 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
MOBIWIRE MOBILES (NINGBO) CO.,LTD	Adapter	S005UA0500100	CBA3000AH0C1
Lenovo	AC Adapter	42T4416	21D9JU
НР	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