# EMC TEST REPORT



Report No.: 17070763-FCC-E Supersede Report No: N/A

Applicant	BLU Products,Inc.			
Product Name	Mobile Phone			
Model No.	C5 LTE	C5 LTE		
Serial No.	N/A			
Test Standard	FCC Part 1	5 Subpart B Class B:2016, A	NSI C63.4: 2014	
Test Date	October 16	to November 06, 2017		
Issue Date	November	07, 2017		
Test Result	Pass	Fail		
Equipment compl	ied with the	specification		
Equipment did no	Equipment did not comply with the specification			
mas. He		David Huang		
Evans He Test Engineer		David Huang Checked By		

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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.



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
17070763-FCC-E	NONE	Original	November 07, 2017

# 2. Customer information

Applicant Name	BLU Products,Inc.
Applicant Add	10814 NW 33rd St#100 Doral,FL33172,USA
Manufacturer	BLU Products,Inc.
Manufacturer Add	10814 NW 33rd St#100 Doral,FL33172,USA

# 3. Test site information

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.	535293	
IC Test Site No.	4842E-1	
Test Software of		
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0	
Test Software of	E7 EMC(content 00A4)	
Conducted Emission	EZ-EMC(ver.lcp-03A1)	



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# 4. Equipment under Test (EUT) Information

Main Model: C5 LTE

Serial Model: N/A

GSM850: 0.5dBi PCS1900: 0.8dBi

UMTS-FDD Band V: 0.5dBi UMTS-FDD Band II: 0.8dBi

Antenna Gain: LTE Band 5: 0.8dBi

LTE Band 7: 1.2dBi
Bluetooth/BLE: 0.5dBi

WIFI: 0.5dBi GPS: 0.5dBi

Antenna Type: PIFA antenna

Adapter:

Model: US-WW-1002

Input: AC100-240V~50/60Hz, 0.2A

Input Power: Output: DC 5.0V,1000mA

Battery:

Model: C775840200L

Spec: 3.8V, 2000mAh, 7.60Wh

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, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK FM: FM



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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 5 TX: 826.5 ~ 846.5 MHz; RX : 871.5 ~ 891.5 MHz

LTE Band 7 TX: 2502.5 ~ 2567.5 MHz; RX: 2622.5 ~ 2687.5 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

FM: 87.5 MHz - 108 MHz(RX)

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH
UMTS-FDD Band II: 277CH
WIFI:802.11b/g/n(20M): 11CH

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: USB Port, Earphone Port

Trade Name : BLU

Number of Channels:

FCC ID: YHLBLUC5LTE

GPRS/ EGPRS Multi-slot class 8/10/11/12

Date EUT received: October 16, 2017

Test Date(s): October 16 to November 06, 2017



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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**

Parameter	Uncertainty	
AC Power Line Conducted Emissions	±3.11dB	
(150kHz~30MHz)		
Radiated Emission(30MHz~1GHz)	±5.12dB	
Radiated Emission(1GHz~6GHz)	±5.34dB	



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# 6. Measurements, Examination And Derived Results

# 6.1 AC Power Line Conducted Emissions

Temperature	26 °C		
Relative Humidity	57%		
Atmospheric Pressure	1025mbar		
Test date :	October 25, 2017		
Tested By:	Evans He		

#### Requirement(s):

Spec	Item	Requirement Applicable					
47CFR§15.	a)	For Low-power radio-freconnected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at the					
107		Frequency ranges	-	dBµV)			
		(MHz)	QP	Average			
		0.15 ~ 0.5	66 – 56	56 – 46			
		0.5 ~ 5	56	46			
		5 ~ 30	60	50			
Test Setup			ical Ground Frence Plane	Test Receiver			
Procedure	<ol> <li>The EUT and supporting equipment were set up in accordance with the requirements 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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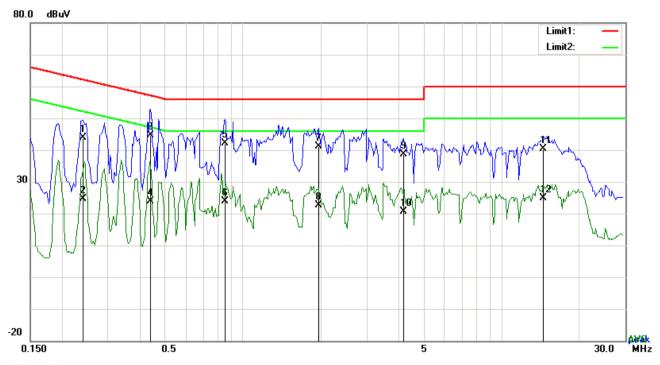
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL 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 bandwidth
	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

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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Test Mode : USB Mode



#### Test Data

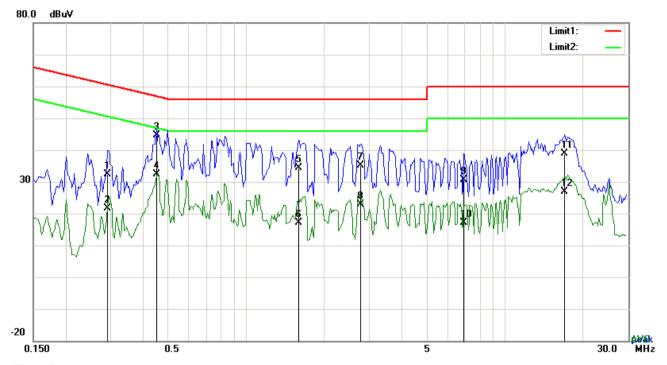
# Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2397	33.86	QP	10.03	43.89	62.11	-18.22
2	L1	0.2397	14.68	AVG	10.03	24.71	52.11	-27.40
3	L1	0.4386	34.60	QP	10.03	44.63	57.09	-12.46
4	L1	0.4386	13.77	AVG	10.03	23.80	47.09	-23.29
5	L1	0.8520	32.10	QP	10.03	42.13	56.00	-13.87
6	L1	0.8520	13.92	AVG	10.03	23.95	46.00	-22.05
7	L1	1.9518	30.98	QP	10.04	41.02	56.00	-14.98
8	L1	1.9518	12.69	AVG	10.04	22.73	46.00	-23.27
9	L1	4.1622	28.50	QP	10.07	38.57	56.00	-17.43
10	L1	4.1622	10.67	AVG	10.07	20.74	46.00	-25.26
11	L1	14.4855	30.04	QP	10.22	40.26	60.00	-19.74
12	L1	14.4855	14.67	AVG	10.22	24.89	50.00	-25.11



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Test Mode:
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#### Test Data

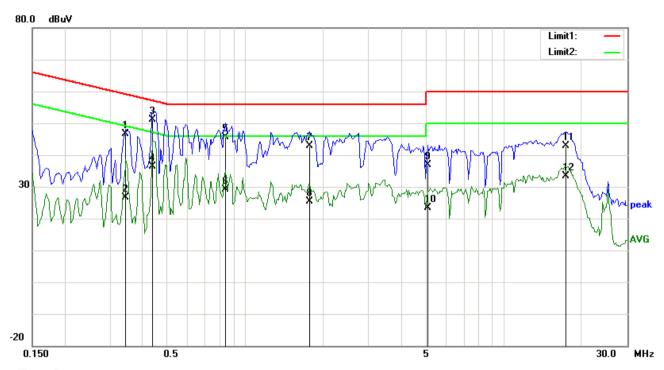
# Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.2904	22.39	QP	10.02	32.41	60.51	-28.10
2	Ν	0.2904	11.59	AVG	10.02	21.61	50.51	-28.90
3	Ν	0.4503	34.55	QP	10.02	44.57	56.87	-12.30
4	N	0.4503	22.27	AVG	10.02	32.29	46.87	-14.58
5	Ν	1.6008	24.46	QP	10.04	34.50	56.00	-21.50
6	Ν	1.6008	7.09	AVG	10.04	17.13	46.00	-28.87
7	Ν	2.7747	25.12	QP	10.05	35.17	56.00	-20.83
8	Ν	2.7747	12.86	AVG	10.05	22.91	46.00	-23.09
9	N	6.9468	20.49	QP	10.10	30.59	60.00	-29.41
10	N	6.9468	6.95	AVG	10.10	17.05	50.00	-32.95
11	N	17.0868	28.74	QP	10.23	38.97	60.00	-21.03
12	N	17.0868	16.60	AVG	10.23	26.83	50.00	-23.17



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Test Mode : USB Mode



Test Data

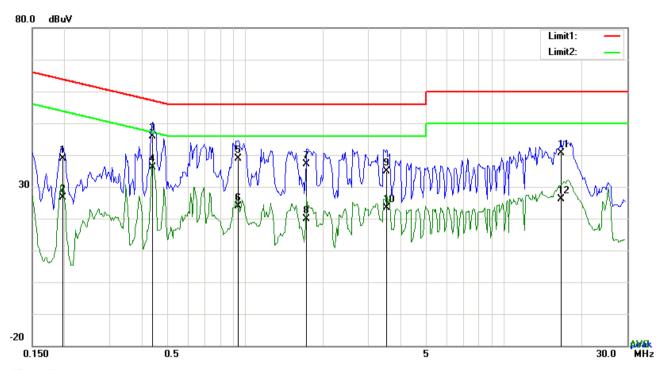
# Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.3450	36.53	QP	10.03	46.56	59.08	-12.52
2	L1	0.3450	16.65	AVG	10.03	26.68	49.08	-22.40
3	L1	0.4386	41.16	QP	10.03	51.19	57.09	-5.90
4	L1	0.4386	26.23	AVG	10.03	36.26	47.09	-10.83
5	L1	0.8403	35.61	QP	10.03	45.64	56.00	-10.36
6	L1	0.8403	19.00	AVG	10.03	29.03	46.00	-16.97
7	L1	1.7724	32.72	QP	10.04	42.76	56.00	-13.24
8	L1	1.7724	15.45	AVG	10.04	25.49	46.00	-20.51
9	L1	5.0709	26.87	QP	10.08	36.95	60.00	-23.05
10	L1	5.0709	13.23	AVG	10.08	23.31	50.00	-26.69
11	L1	17.3091	32.57	QP	10.26	42.83	60.00	-17.17
12	L1	17.3091	23.07	AVG	10.26	33.33	50.00	-16.67



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Test Mode : USB Mode



#### 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	0.1968	28.87	QP	10.03	38.90	63.74	-24.84
2	N	0.1968	16.59	AVG	10.03	26.62	53.74	-27.12
3	N	0.4386	35.89	QP	10.03	45.92	57.09	-11.17
4	N	0.4386	26.03	AVG	10.03	36.06	47.09	-11.03
5	N	0.9417	28.91	QP	10.03	38.94	56.00	-17.06
6	N	0.9417	13.91	AVG	10.03	23.94	46.00	-22.06
7	N	1.7256	26.97	QP	10.04	37.01	56.00	-18.99
8	N	1.7256	9.74	AVG	10.04	19.78	46.00	-26.22
9	N	3.5226	24.85	QP	10.06	34.91	56.00	-21.09
10	N	3.5226	13.41	AVG	10.06	23.47	46.00	-22.53
11	N	16.6812	30.46	QP	10.25	40.71	60.00	-19.29
12	N	16.6812	15.83	AVG	10.25	26.08	50.00	-23.92



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# 6.2 Radiated Emissions

Temperature	26 °C	
Relative Humidity	57%	
Atmospheric Pressure	1025mbar	
Test date :	October 25, 2017	
Tested By:	Evans He	

## Requirement(s):

Spec	Item Requirement Applicable				
47CFR§15. 109(d)	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spethe level of any unwanted emission the fundamental emission. The tight edges  Frequency range (MHz)	₹		
		30 - 88	100		
		88 – 216	150		
		216 - 960	200		
		Above 960	500		
Test Setup	Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver				
Procedure	<ol> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>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:         <ul> <li>Vertical or horizontal polarization (whichever gave the higher emission level</li> </ul> </li> </ol>				



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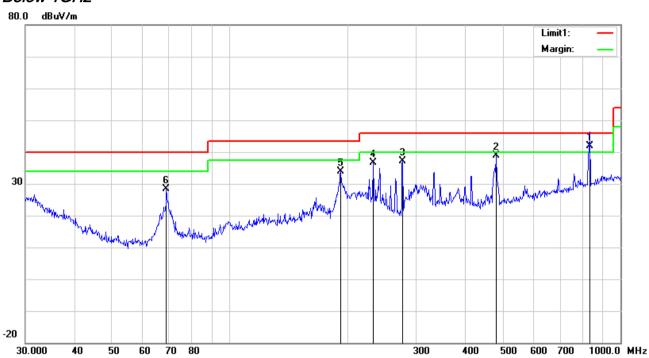
		over a full rotation of the EUT) was chosen.
1	b.	The EUT was then rotated to the direction that gave the maximum
		emission.
	C.	Finally, the antenna height was adjusted to the height that gave the maximum
		emission.
	3. The res	solution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120 kH	z for Quasiy Peak detection at frequency below 1GHz.
	4. The res	olution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandwi	dth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.	
	The re	esolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	bandv	vidth with Peak detection for Average Measurement as below at frequency
	above	1GHz.
	■ 1 kH	Hz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. Steps 2	2 and 3 were repeated for the next frequency point, until all selected frequency
	points	were measured.
Remark		
Result	Pass	Fail
Test Data	Yes	N/A
Test Plot	Yes (See belo	w) N/A



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Test Mode : USB Mode

#### Below 1GHz



#### Test Data

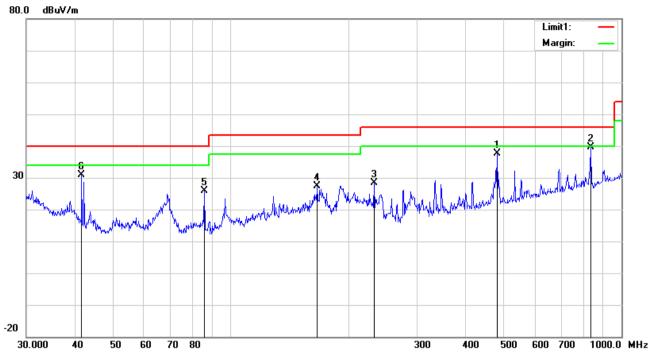
## Horizontal Polarity Plot @3m

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	Н	836.2443	38.36	QP	21.80	21.05	2.89	42.00	46.00	-4.00	100	229
2	Н	480.5276	41.10	peak	17.31	21.85	2.31	38.87	46.00	-7.13	100	261
3	Н	277.0935	45.12	peak	12.59	22.29	1.75	37.17	46.00	-8.83	100	98
4	Н	232.5318	45.62	peak	11.64	22.32	1.64	36.58	46.00	-9.42	100	309
5	Н	192.4186	43.01	peak	11.68	22.33	1.54	33.90	43.50	-9.60	100	49
6	Н	68.8721	42.03	peak	7.74	22.38	0.96	28.35	40.00	-11.65	200	228



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#### 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	>	480.5276	39.83	peak	17.31	21.85	2.31	37.60	46.00	-8.40	100	61
2	٧	833.3171	36.03	peak	21.77	21.06	2.90	39.64	46.00	-6.36	100	141
3	٧	232.5318	37.35	peak	11.64	22.32	1.64	28.31	46.00	-17.69	200	2
4	٧	166.6514	36.15	peak	12.07	22.26	1.37	27.33	43.50	-16.17	100	124
5	V	85.5977	39.39	peak	7.82	22.36	1.06	25.91	40.00	-14.09	100	140
6	V	41.5670	39.57	peak	12.87	22.28	0.78	30.94	40.00	-9.06	100	122



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#### Above 1GHz

Frequency	Read_level	A ! all-	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1416.2	67.5	163	100	V	-18.97	48.53	74	-25.47	PK
1678.5	61.82	108	100	V	-17.51	44.31	74	-29.69	PK
1934.1	62.72	27	100	V	-15.56	47.16	74	-26.84	PK
1498.3	66.77	249	100	Н	-18.52	48.25	74	-25.75	PK
1853.9	62.48	194	100	Н	-16.11	46.37	74	-27.63	PK
2471.6	60.59	239	100	Н	-13.7	46.89	74	-27.11	PK

Note1: The highest frequency of the EUT is 2567.5 MHz, so the testing has been conformed to 5\*2567.5 MHz

= 12,837.5 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.



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# Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use			
AC Line Conducted Emis	AC Line Conducted Emissions							
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	<			
Line Impedance Stabilization Network	LI-125A	191106	09/23/2017	09/22/2018	<b>(</b>			
Line Impedance Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	<b>\(\z\)</b>			
ISN	ISN T800	34373	09/23/2017	09/22/2018				
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	~			
Radiated Emissions								
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	<			
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	<b>\(\z\)</b>			
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<b>\</b>			
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	Ŋ			
Double Ridge Horn Antenna	AH-118	71259	09/22/2017	09/21/2018	<u> </u>			



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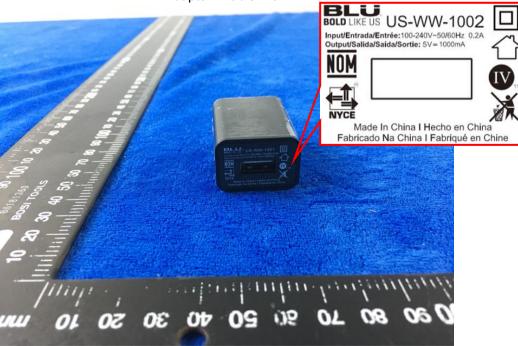
# Annex B. EUT And Test Setup Photographs

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





Adapter - Lable View





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**EUT - Front View** 



**EUT - Rear View** 





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**EUT - Top View** 



**EUT - Bottom View** 





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EUT - Left View



EUT - Right View





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





Cover Off - Top View 2





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Battery - Front View



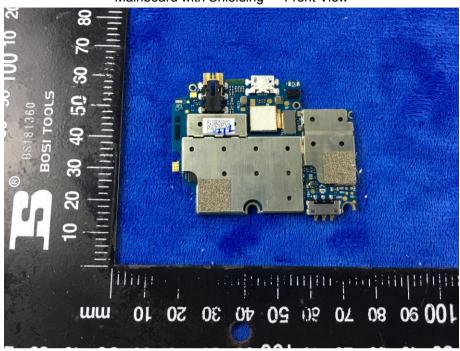
Battery - Rear View



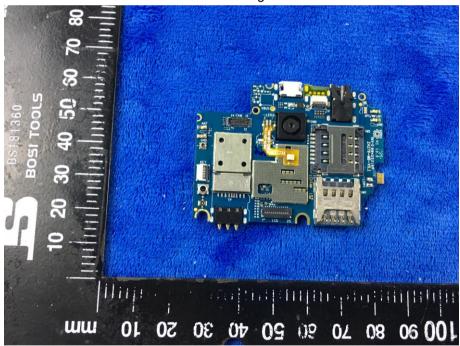


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Mainboard with Shielding - Front View



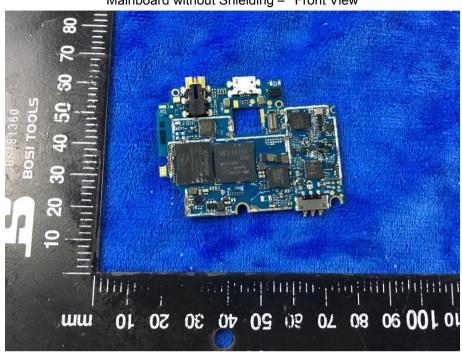
Mainboard with Shielding - Rear View



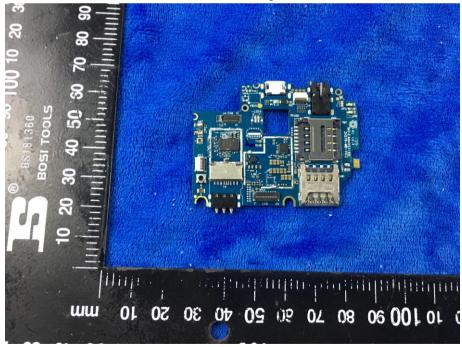


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Mainboard without Shielding - Front View



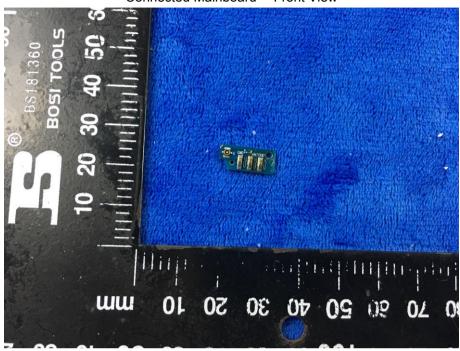
Mainboard without Shielding - Rear View



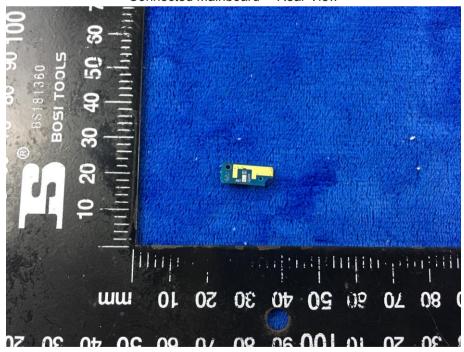


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Connected Mainboard - Front View



Connected Mainboard - Rear View





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LCD - Front View



LCD - Rear View





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#### GSM/PCS/UMTS-FDD/LTE - Antenna View



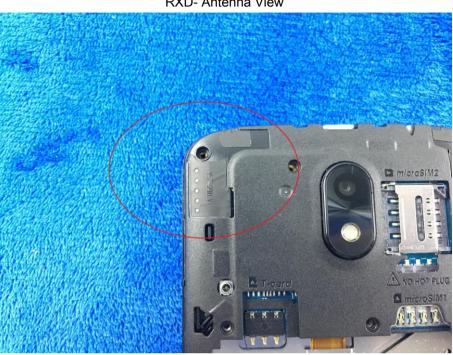
WIFI/BT/BLE/GPS - Antenna View





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#### **RXD- Antenna View**



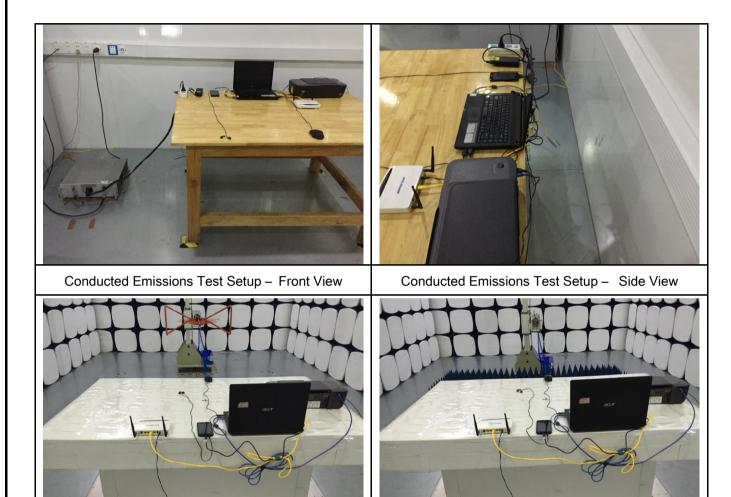


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Radiated Emissions Test Setup Above 1GHz

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

Radiated Emissions Test Setup Below 1GHz

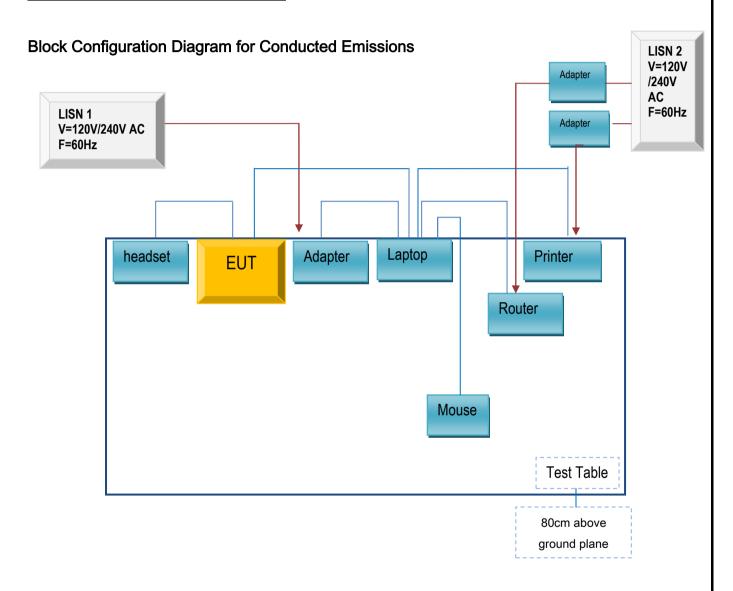




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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

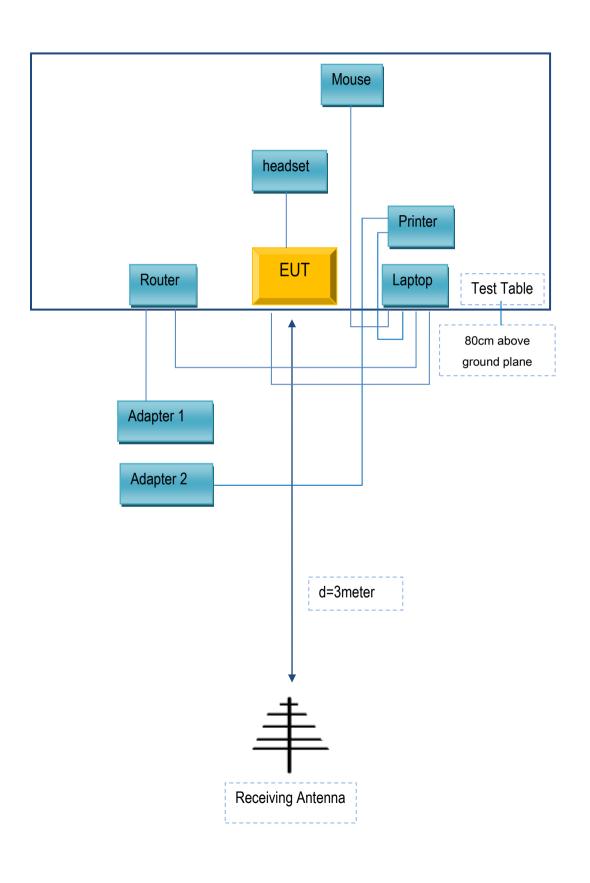
#### Annex C.ii. TEST SET UP BLOCK





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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
Lenovo	AC Adapter	42T4416	21D9JU
HP	Printer	VCVRA-1003	CN36M19JWX
DELL	Mouse	E100	912NMTUT41481
BULL	Socket	GN-403	GN201203
SAMSUNG	headset	HS330	N/A

## 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