# EMC TEST REPORT



Report No.: 17070764-FCC-E
Supersede Report No: N/A

Applicant	BLU Produ	cts, Inc.			
Product Name	Mobile Phone				
Model No.	STUDIO G3				
Serial No.	N/A	N/A			
Test Standard	FCC Part 1	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014			
Test Date	August 19	to Septembe	r 05, 2017		
Issue Date	September 06, 2017				
Test Result	Pass	Fail			
Equipment complied with the specification					
Equipment did not comply with the specification					
mais.	He	David	Huang		
Evans He Test Engineer			Huang ked 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.



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## **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
17070764-FCC-E	NONE	Original	September 06, 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
	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	Dediated Emission Draways To Chamban v2 0
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of	E7 FMC(varior 0244)
Conducted Emission	EZ-EMC(ver.lcp-03A1)



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## 4. Equipment under Test (EUT) Information

Description of EUT: Mob	ile Phone
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Main Model: STUDIO G3

Serial Model: N/A

GSM850: -3.7dBi PCS1900: -3.5dBi

UMTS-FDD Band V: -3.0dBi UMTS-FDD Band IV: -2.5dBi

Antenna Gain:

UMTS-FDD Band II: -2.5dBi

WIFI: -4.13dBi

Bluetooth/BLE: -4.13dBi

GPS: -3.2dBi

Antenna Type: PIFA antenna

Adapter:

Model: US-BB-1000

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

Output: DC 5.0V,1.0A

Input Power: Battery:

Model: C745343205L

Spec: 3.8V, 2050mAh, 7.79Wh

Equipment Category: JBP

GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

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

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz RF Operating Frequency (ies):

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz



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UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band IV TX:1712.4  $\sim$  1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

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 IV: 202CH UMTS-FDD Band II: 277CH

Number of Channels:

WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH

VIII 1 :002: 1 III( 10IVI):

Bluetooth: 79CH BLE: 40CH

GPS:1CH

Port: USB Port, Earphone Port

Trade Name: BLU

FCC ID: YHLBLUSTUDIOG3

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

Date EUT received: August 18, 2017

Test Date(s): August 19 to September 05, 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 :	August 25, 2017		
Tested By :	Evans He		

#### Requirement(s):

Spec	Item	Requirement	Applicable		
47CFR§15.	a)	For Low-power radio-frequenced to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line implementation at the lower limit applies at the	<b>∠</b>		
107		lower limit applies at th	Limit (		
		(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				
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 filtered mains.</li> </ol>				



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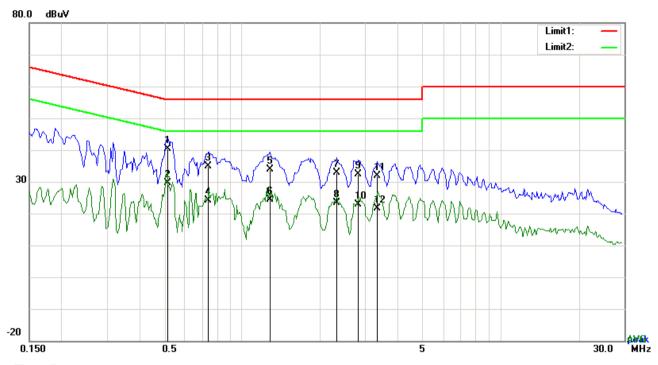
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL 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

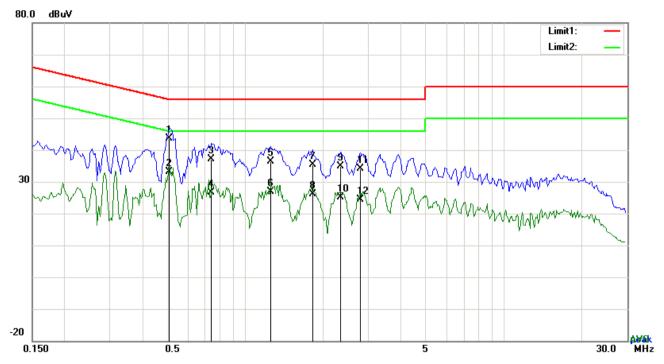
## Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.5166	30.25	QP	10.03	40.28	56.00	-15.72
2	L1	0.5166	19.70	AVG	10.03	29.73	46.00	-16.27
3	L1	0.7428	24.80	QP	10.03	34.83	56.00	-21.17
4	L1	0.7428	14.15	AVG	10.03	24.18	46.00	-21.82
5	L1	1.2810	23.90	QP	10.03	33.93	56.00	-22.07
6	L1	1.2810	14.36	AVG	10.03	24.39	46.00	-21.61
7	L1	2.3262	22.95	QP	10.05	33.00	56.00	-23.00
8	L1	2.3262	13.27	AVG	10.05	23.32	46.00	-22.68
9	L1	2.8020	22.38	QP	10.05	32.43	56.00	-23.57
10	L1	2.8020	12.71	AVG	10.05	22.76	46.00	-23.24
11	L1	3.3120	21.92	QP	10.06	31.98	56.00	-24.02
12	L1	3.3120	11.45	AVG	10.06	21.51	46.00	-24.49



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USB Mode
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#### Test Data

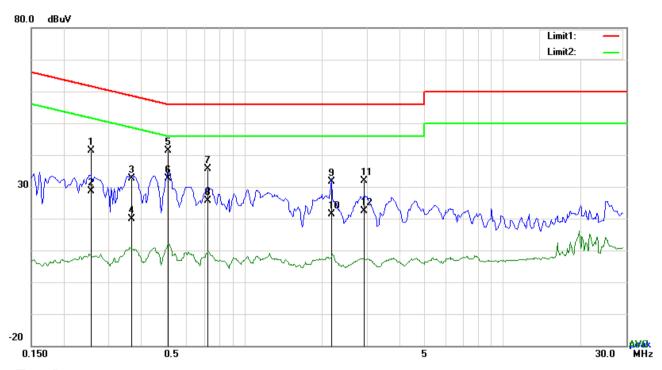
#### Phase Neutral Plot at 120Vac, 60Hz

	1 11000 11000111 10101 120 100, 00112							
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.5088	33.56	QP	10.02	43.58	56.00	-12.42
2	N	0.5088	23.14	AVG	10.02	33.16	46.00	-12.84
3	N	0.7428	27.06	QP	10.02	37.08	56.00	-18.92
4	N	0.7428	16.68	AVG	10.02	26.70	46.00	-19.30
5	N	1.2537	26.31	QP	10.03	36.34	56.00	-19.66
6	Ν	1.2537	16.81	AVG	10.03	26.84	46.00	-19.16
7	Ζ	1.8192	25.35	QP	10.04	35.39	56.00	-20.61
8	Ζ	1.8192	16.18	AVG	10.04	26.22	46.00	-19.78
9	Ν	2.3379	24.85	QP	10.04	34.89	56.00	-21.11
10	Ν	2.3379	15.09	AVG	10.04	25.13	46.00	-20.87
11	Ν	2.7825	24.09	QP	10.05	34.14	56.00	-21.86
12	N	2.7825	14.42	AVG	10.05	24.47	46.00	-21.53



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Test Mode : USB Mode



#### Test Data

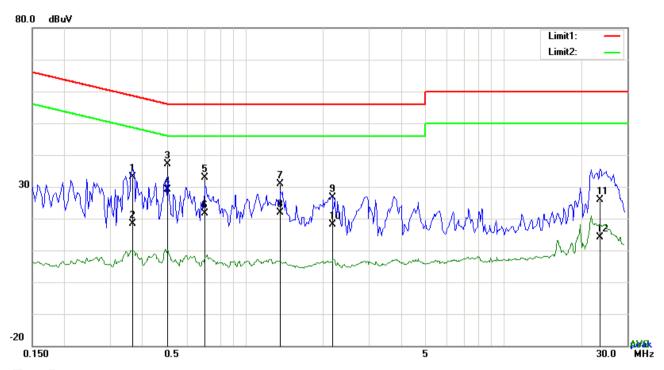
## Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2553	31.46	QP	10.03	41.49	61.58	-20.09
2	L1	0.2553	18.63	AVG	10.03	28.66	51.58	-22.92
3	L1	0.3684	22.69	QP	10.03	32.72	58.54	-25.82
4	L1	0.3684	9.81	AVG	10.03	19.84	48.54	-28.70
5	L1	0.5088	31.46	QP	10.03	41.49	56.00	-14.51
6	L1	0.5088	22.54	AVG	10.03	32.57	46.00	-13.43
7	L1	0.7272	25.59	QP	10.03	35.62	56.00	-20.38
8	L1	0.7272	15.56	AVG	10.03	25.59	46.00	-20.41
9	L1	2.1741	21.50	QP	10.04	31.54	56.00	-24.46
10	L1	2.1741	11.30	AVG	10.04	21.34	46.00	-24.66
11	L1	2.9151	21.80	QP	10.05	31.85	56.00	-24.15
12	L1	2.9151	12.35	AVG	10.05	22.40	46.00	-23.60



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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	0.3684	23.08	QP	10.03	33.11	58.54	-25.43
2	N	0.3684	8.31	AVG	10.03	18.34	48.54	-30.20
3	N	0.5010	27.02	QP	10.03	37.05	56.00	-18.95
4	N	0.5010	19.22	AVG	10.03	29.25	46.00	-16.75
5	N	0.6999	22.80	QP	10.03	32.83	56.00	-23.17
6	N	0.6999	11.54	AVG	10.03	21.57	46.00	-24.43
7	Ν	1.3668	20.82	QP	10.03	30.85	56.00	-25.15
8	Ν	1.3668	11.88	AVG	10.03	21.91	46.00	-24.09
9	N	2.1702	16.50	QP	10.04	26.54	56.00	-29.46
10	N	2.1702	8.02	AVG	10.04	18.06	46.00	-27.94
11	Ν	23.5608	15.54	QP	10.37	25.91	60.00	-34.09
12	N	23.5608	3.70	AVG	10.37	14.07	50.00	-35.93



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# 6.2 Radiated Emissions

Temperature	26 °C
Relative Humidity	56%
Atmospheric Pressure	1022mbar
Test date :	August 26, 2017
Tested By :	Evans He

## Requirement(s):

Spec	Item	Requirement		Applicable		
47CFR§15.	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spe the level of any unwanted emission the fundamental emission. The tight edges	<b>V</b>			
109(d)	,	Frequency range (MHz)	Field Strength (μV/m)			
		30 – 88	100			
		88 – 216	150			
		216 - 960	200			
		Above 960	500			
Test Setup	Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver					
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 level)				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	e resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120	0 kHz for Quasiy Peak detection at frequency below 1GHz.
	4. The	resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bar	ndwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1G	Hz.
	Th	ne resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	ba	andwidth with Peak detection for Average Measurement as below at frequency
	ab	pove 1GHz.
	•	1 kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. Ste	eps 2 and 3 were repeated for the next frequency point, until all selected frequency
	poi	ints were measured.
Remark		
Remark		
Result	Pass	Fail
Test Data	Yes	N/A
Test Plot	Yes (See b	pelow)

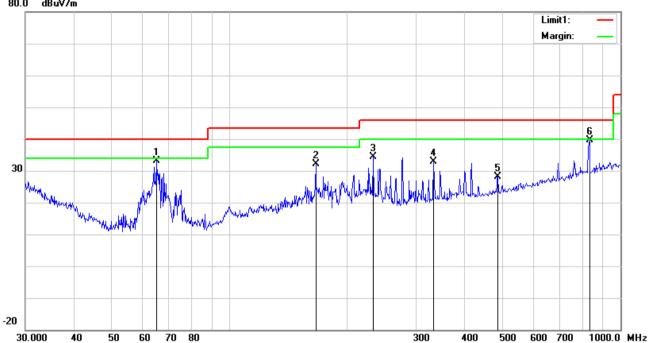


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USB Mode Test Mode:

#### 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	64.8865	47.14	peak	7.54	22.40	0.88	33.16	40.00	-6.84	100	174
2	Н	166.0680	40.94	peak	12.11	22.26	1.37	32.16	43.50	-11.34	100	129
3	Н	232.5318	43.50	peak	11.64	22.32	1.64	34.46	46.00	-11.54	100	96
4	Н	332.5187	38.81	peak	14.28	22.20	1.95	32.84	46.00	-13.16	100	119
5	Н	485.6093	30.22	peak	17.41	21.84	2.34	28.13	46.00	-17.87	100	118
6	Н	833.3171	35.90	peak	21.77	21.06	2.90	39.51	46.00	-6.49	100	295



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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	٧	57.9993	51.57	QP	7.52	22.40	0.76	37.45	40.00	-2.55	100	79
2	٧	65.3432	51.14	QP	7.57	22.39	0.89	37.21	40.00	-2.79	100	141
3	V	165.4867	45.82	peak	12.16	22.26	1.37	37.09	43.50	-6.41	100	320
4	V	232.5318	52.02	QP	11.64	22.32	1.64	42.98	46.00	-3.02	100	169
5	V	485.6093	35.65	peak	17.41	21.84	2.34	33.56	46.00	-12.44	100	22
6	V	830.4002	32.23	peak	21.73	21.07	2.91	35.80	46.00	-10.20	100	65



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#### Above 1GHz

Frequency	Read_level	A = !	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1579.5	67.06	331	100	V	-18.55	48.51	74	-25.49	PK
1684.4	62.33	242	100	V	-17.51	44.82	74	-29.18	PK
2364.3	59.17	276	100	V	-14.18	44.99	74	-29.01	PK
1655.5	68.08	271	100	Н	-17.26	50.82	74	-23.18	PK
2170	64.05	196	100	Н	-14.7	49.35	74	-24.65	PK
2850.3	62.98	116	100	Н	-13.15	49.83	74	-24.17	PK

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

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 Emis	ssions				
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	~
Line Impedance Stabilization Network	LI-125A	191106	09/24/2016	09/23/2017	Z
Line Impedance Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	Z
ISN	ISN T800	34373	09/24/2016	09/23/2017	
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	<b>\</b>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<u>&lt;</u>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	<b>S</b>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	V
Double Ridge Horn Antenna	AH-118	71259	09/23/2016	09/22/2017	Z



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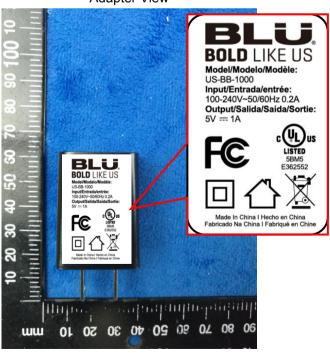
## Annex B. EUT And Test Setup Photographs

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





Adapter View





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**EUT - Front View** 



**EUT - Rear View** 





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EUT - Top View



EUT - Bottom View



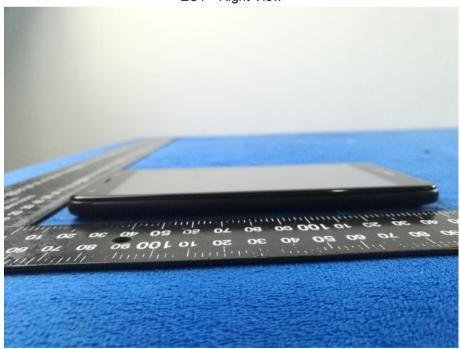


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EUT - Left View



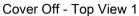
EUT - Right View





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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 - Rear View



LCD - Front View





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LCD - Rear View



GSM/PCS/UMTS-FDD - Antenna View





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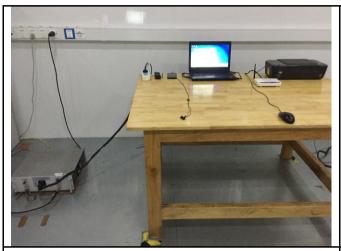
#### WIFI/BT/BLE/GPS - Antenna View



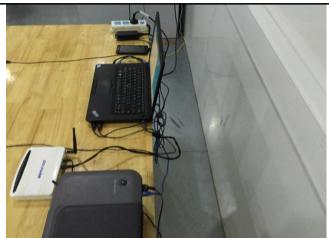


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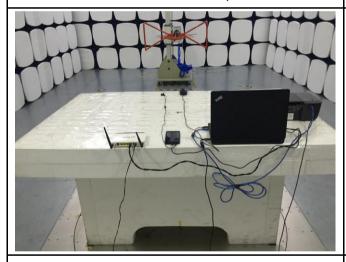
## Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



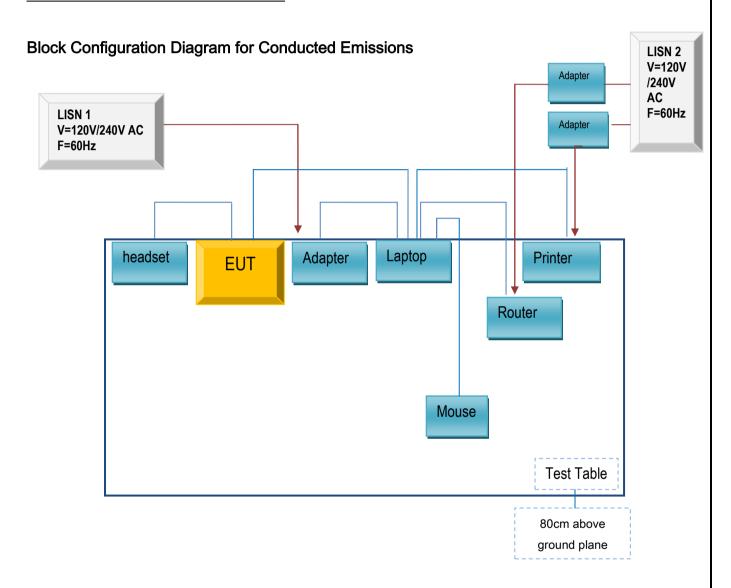
Radiated Emissions Test Setup Above 1GHz



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## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

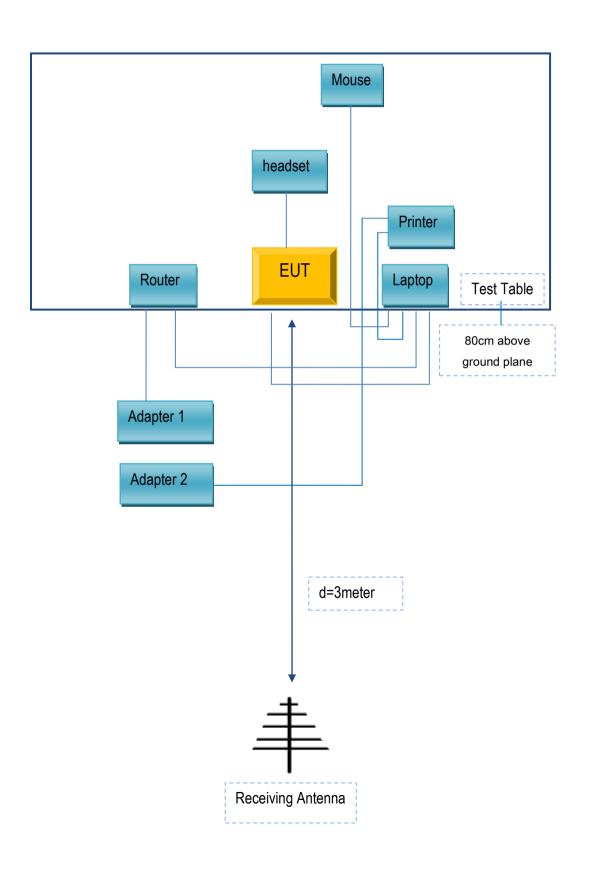
#### Annex C.ii. TEST SET UP BLOCK





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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
Earphone Cables	Un-shielding	No	0.5m	N/A



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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