EMC TEST REPORT



Report No.: 17071129-FCC-E
Supersede Report No: N/A

Applicant	BLU Products, Inc.			
Product Name	Mobile Phone			
Model No.	STUDIO VI	EW XL		
Serial No.	N/A			
Test Standard	FCC Part 1	5 Subpart B Cl	ass B:2016, Al	NSI C63.4: 2014
Test Date	October 26	to November 1	5, 2017	
Issue Date	November 16, 2017			
Test Result	Pass Fail			
Equipment compl	Equipment complied with the specification			
Equipment did no	Equipment did not comply with the specification			
mais.	He	David	Huang	
Evans H Test Engir		David I Check	•	

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



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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
17071129-FCC-E	NONE	Original	November 16, 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	Dadiated Emission Draways To Chamban v2 0		
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0		
Test Software of	E7 FMO(L 20044)		
Conducted Emission	EZ-EMC(ver.lcp-03A1)		



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: STUDIO VIEW XL

Serial Model: N/A

Antenna Gain:

GSM850: -0.5dBi PCS1900: 0.9dBi

UMTS-FDD Band V: -0.5dBi UMTS-FDD Band IV: 0.3dBi UMTS-FDD Band II: 0.9dBi

OWITS-I DD Danu

Bluetooth/BLE: 1.1dBi

GPS: 0.8dBi

WIFI: 1.2dBi

Antenna Type: PIFA antenna

Adapter:

Model: US-WT-1500

Input: AC100-240V~50/60Hz,0.3A

Output: DC 5.0V,1.5A

Input Power: Battery:

Model: C906043300L

Spec: 3.8V, 3000mAh, 11.4Wh

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

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 ~ 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: 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

FCC ID: YHLBLUSTVIEWXL

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

Date EUT received: October 25, 2017

Test Date(s): October 26 to November 15, 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	22 °C
Relative Humidity	53%
Atmospheric Pressure	1008mbar
Test date :	November 02, 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	\			
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					
Procedure	 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. The power supply for the EUT was fed through a 50Ω /50mH EUT LISN, connected to 					
Procedure	the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.					



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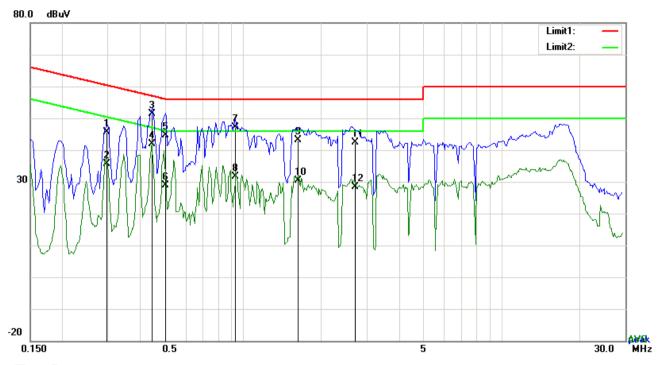
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL 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	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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Test Mode : USB Mode



Test Data

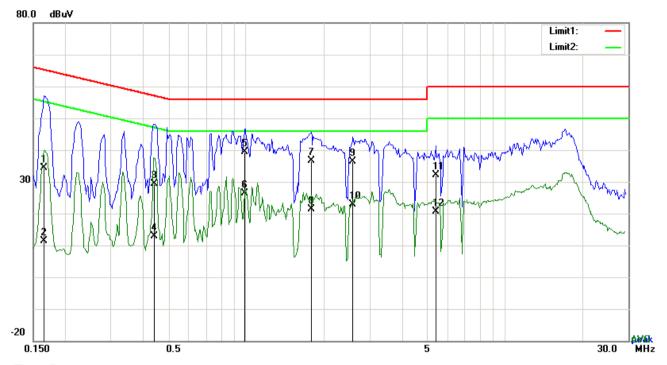
Phase Line Plot at 120Vac, 60Hz

	1 11000 21110 1 100 00 122							
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2982	35.63	QP	10.03	45.66	60.29	-14.63
2	L1	0.2982	25.72	AVG	10.03	35.75	50.29	-14.54
3	L1	0.4425	41.29	QP	10.03	51.32	57.01	-5.69
4	L1	0.4425	31.74	AVG	10.03	41.77	47.01	-5.24
5	L1	0.5010	34.61	QP	10.03	44.64	56.00	-11.36
6	L1	0.5010	18.91	AVG	10.03	28.94	46.00	-17.06
7	L1	0.9300	36.99	QP	10.03	47.02	56.00	-8.98
8	L1	0.9300	21.70	AVG	10.03	31.73	46.00	-14.27
9	L1	1.6281	33.17	QP	10.04	43.21	56.00	-12.79
10	L1	1.6281	20.33	AVG	10.04	30.37	46.00	-15.63
11	L1	2.7068	32.27	QP	10.05	42.32	56.00	-13.68
12	L1	2.7068	18.26	AVG	10.05	28.31	46.00	-17.69



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Test Mode:



Test Data

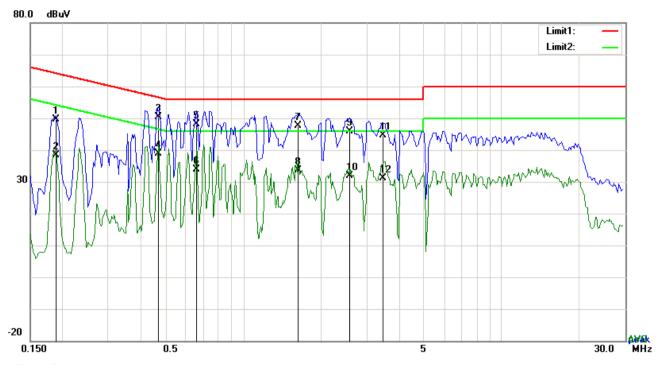
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1656	24.44	QP	10.02	34.46	65.18	-30.72
2	Ν	0.1656	1.45	AVG	10.02	11.47	55.18	-43.71
3	Ν	0.4397	19.43	QP	10.02	29.45	57.07	-27.62
4	N	0.4397	2.87	AVG	10.02	12.89	47.07	-34.18
5	Ν	0.9885	29.33	QP	10.03	39.36	56.00	-16.64
6	Ν	0.9885	16.24	AVG	10.03	26.27	46.00	-19.73
7	Ν	1.7841	26.55	QP	10.04	36.59	56.00	-19.41
8	Ν	1.7841	11.25	AVG	10.04	21.29	46.00	-24.71
9	N	2.5875	26.37	QP	10.05	36.42	56.00	-19.58
10	Ν	2.5875	12.74	AVG	10.05	22.79	46.00	-23.21
11	N	5.4063	22.16	QP	10.08	32.24	60.00	-27.76
12	N	5.4063	10.53	AVG	10.08	20.61	50.00	-29.39



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Test Mode : USB Mode



Test Data

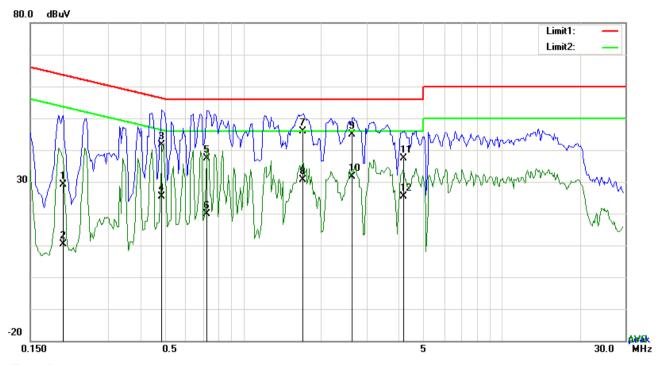
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1890	39.55	QP	10.03	49.58	64.08	-14.50
2	L1	0.1890	28.29	AVG	10.03	38.32	54.08	-15.76
3	L1	0.4698	40.37	QP	10.03	50.40	56.52	-6.12
4	L1	0.4698	28.94	AVG	10.03	38.97	46.52	-7.55
5	L1	0.6609	38.21	QP	10.03	48.24	56.00	-7.76
6	L1	0.6609	23.84	AVG	10.03	33.87	46.00	-12.13
7	L1	1.6281	37.69	QP	10.04	47.73	56.00	-8.27
8	L1	1.6281	23.62	AVG	10.04	33.66	46.00	-12.34
9	L1	2.5758	35.80	QP	10.05	45.85	56.00	-10.15
10	L1	2.5758	21.76	AVG	10.05	31.81	46.00	-14.19
11	L1	3.4875	34.63	QP	10.06	44.69	56.00	-11.31
12	L1	3.4875	21.08	AVG	10.06	31.14	46.00	-14.86



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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	0.2007	19.00	QP	10.02	29.02	63.58	-34.56
2	N	0.2007	0.41	AVG	10.02	10.43	53.58	-43.15
3	N	0.4815	31.61	QP	10.02	41.63	56.31	-14.68
4	N	0.4815	15.37	AVG	10.02	25.39	46.31	-20.92
5	N	0.7272	27.35	QP	10.02	37.37	56.00	-18.63
6	N	0.7272	9.83	AVG	10.02	19.85	46.00	-26.15
7	N	1.7061	35.78	QP	10.04	45.82	56.00	-10.18
8	N	1.7061	20.51	AVG	10.04	30.55	46.00	-15.45
9	N	2.6421	34.79	QP	10.05	44.84	56.00	-11.16
10	N	2.6421	21.65	AVG	10.05	31.70	46.00	-14.30
11	N	4.1739	27.38	QP	10.06	37.44	56.00	-18.56
12	N	4.1739	15.34	AVG	10.06	25.40	46.00	-20.60



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6.2 Radiated Emissions

Temperature	22 °C	
Relative Humidity	53%	
Atmospheric Pressure	1008mbar	
Test date :	November 02, 2017	
Tested By :	Evans He	

Requirement(s):

Spec	Item	tem Requirement Applicable			
47CFR§15. 109(d)	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels specified the level of any unwanted emission the fundamental emission. The tight edges Frequency range (MHz) 30 - 88 88 - 216	p-frequency devices shall not ecified in the following table and is shall not exceed the level of ter limit applies at the band Field Strength (µV/m) 100 150		
		216 - 960 Above 960	200 500		
Test Setup	Ant. Tower Support Units Turn Table Ground Plane Test Receiver				
Procedure	 The EUT was switched on and allowed to warm up to its normal operating condition. 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: Vertical or horizontal polarization (whichever gave the higher emission level 				



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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	resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	ban	dwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GH	łz.
	The	e resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	bar	ndwidth with Peak detection for Average Measurement as below at frequency
	abo	ove 1GHz.
	■ 1	kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)
	5. Step	os 2 and 3 were repeated for the next frequency point, until all selected frequency
	poin	ts were measured.
Remark		
	w l	F
Result	Pass	☐ Fail
	7	
Test Data	Yes	N/A
Test Plot	Yes (See b	elow) N/A



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USB Mode Test Mode:

Below 1GHz





Test Data

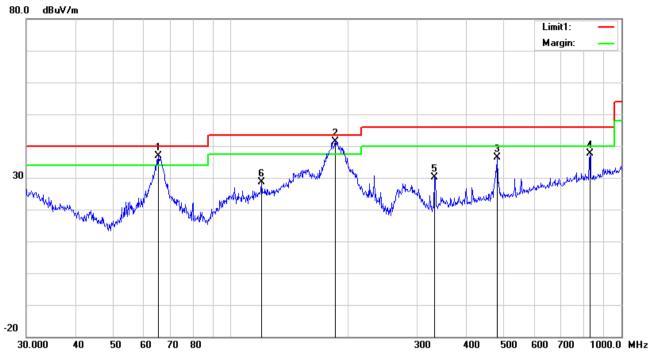
Horizontal Polarity Plot @3m

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	Ι	185.1379	50.35	QP	11.28	22.28	1.45	40.80	43.50	-2.70	100	106
2	I	65.3432	48.90	QP	7.57	22.39	0.89	34.97	40.00	-5.03	200	11
3	Н	106.7587	37.74	peak	11.58	22.33	1.15	28.14	43.50	-15.36	100	161
4	Н	478.8456	40.44	peak	17.28	21.85	2.30	38.17	46.00	-7.83	100	70
5	Н	833.3171	37.96	QP	21.77	21.06	2.90	41.57	46.00	-4.43	100	228
6	Н	277.0935	42.54	peak	12.59	22.29	1.75	34.59	46.00	-11.41	100	116



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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	V	65.3432	50.78	QP	7.57	22.39	0.89	36.85	40.00	-3.15	100	113
2	<	185.1379	50.83	QP	11.28	22.28	1.45	41.28	43.50	-2.22	100	279
3	V	480.5276	38.71	peak	17.31	21.85	2.31	36.48	46.00	-9.52	100	25
4	V	830.4002	33.94	peak	21.73	21.07	2.91	37.51	46.00	-8.49	200	160
5	٧	332.5187	36.09	peak	14.28	22.20	1.95	30.12	46.00	-15.88	100	37
6	V	119.8556	35.85	peak	13.87	22.36	1.16	28.52	43.50	-14.98	100	356



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Above 1GHz

Frequency	Read_level	A-to-odb	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuth	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1288.3	69.16	91	100	V	-20.21	48.95	74	-25.05	PK
1890.7	63.62	337	100	V	-17.15	46.47	74	-27.53	PK
2327.1	62.65	318	100	V	-15.05	47.6	74	-26.4	PK
1528.7	62.98	256	100	Н	-19.46	43.52	74	-30.48	PK
2496.5	63.35	224	100	Н	-14.76	48.59	74	-25.41	PK
1779.8	61.04	112	100	Н	-17.73	43.31	74	-30.69	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

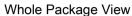
Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emis	ssions				
EMI test receiver	ESCS30	8471241027	09/15/2017	09/14/2018	>
Line Impedance Stabilization Network	LI-125A	191106	09/23/2017	09/22/2018	V
Line Impedance Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	\S
ISN	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	V
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	S
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	S
Double Ridge Horn Antenna	AH-118	71259	09/23/2017	09/22/2018	<u>S</u>



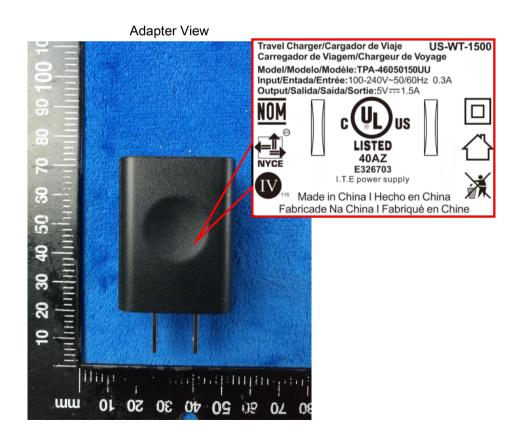
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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo









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EUT - Front View



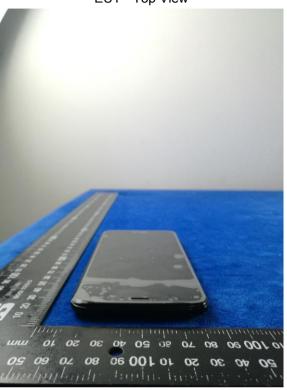
EUT - Rear View





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EUT - Top View



EUT - Bottom View



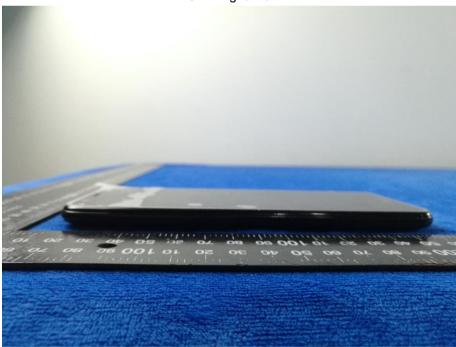


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EUT - Left View



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



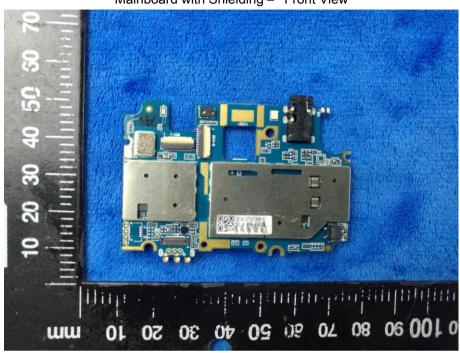
Battery - Rear View



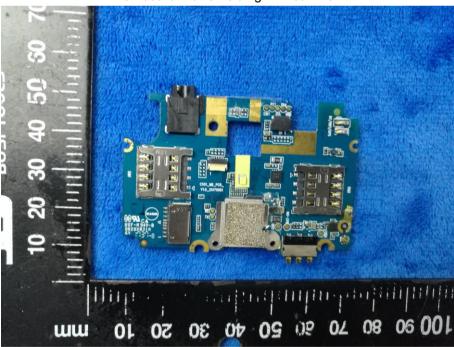


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Mainboard with Shielding - Front View



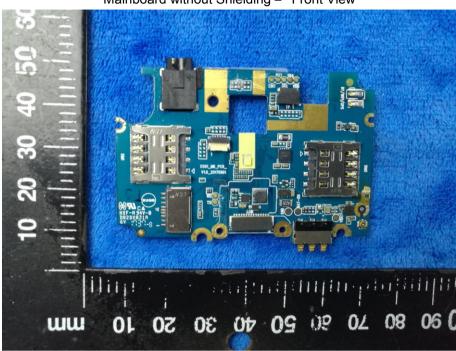
Mainboard with Shielding - Rear View



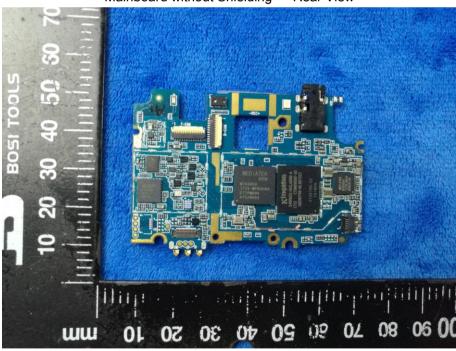


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Mainboard without Shielding - Front View



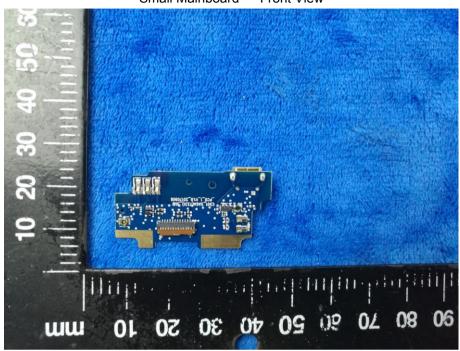
Mainboard without Shielding - Rear View



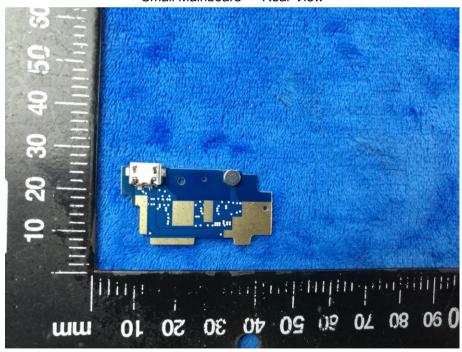


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Small Mainboard - Front View



Small Mainboard - Rear View



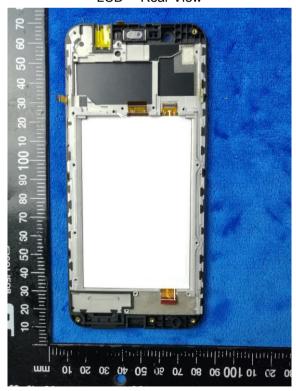


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LCD - Front View



LCD - Rear View





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GSM/PCS/UMTS-FDD - Antenna View



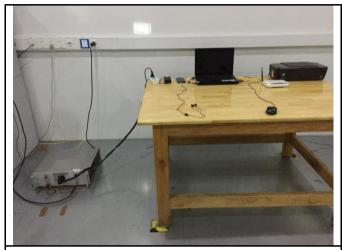
WIFI/BT/BLE/GPS - Antenna View





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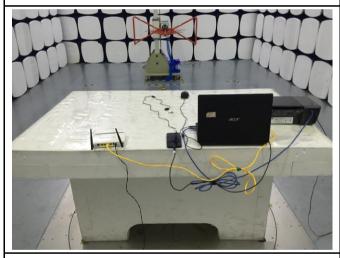
Annex B.iii. Photograph: Test Setup Photo



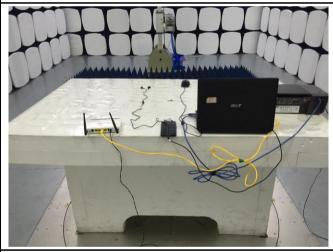
Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



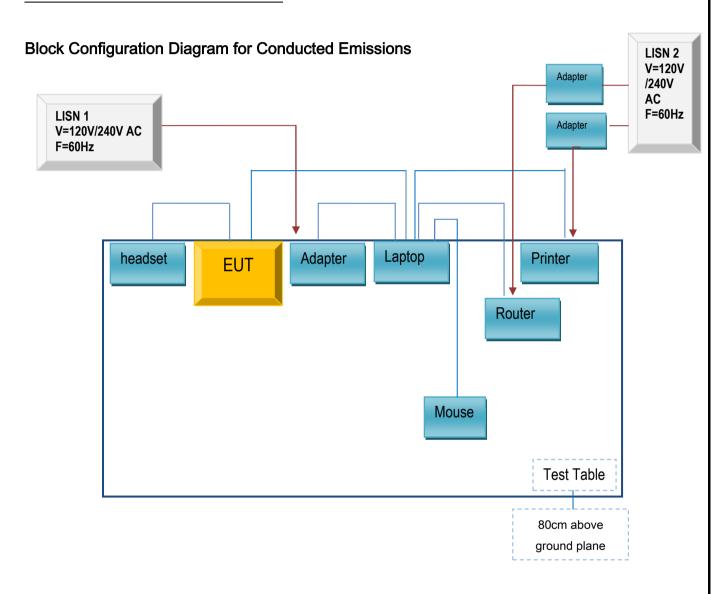
Radiated Emissions Test Setup Above 1GHz



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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

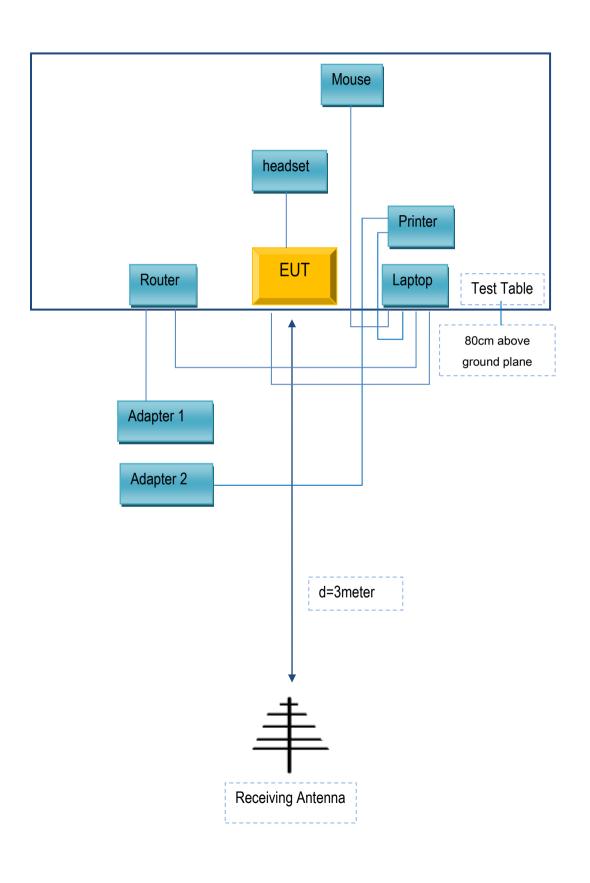
Annex C.ii. TEST SET UP BLOCK





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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