EMC TEST REPORT



Report No.: 17071008-FCC-E

Supersede Repor	t No: N/A			
Applicant	BLU Products, Inc			
Product Name	Feature Ph	Feature Phone		
Model No.	TANK MEG	TANK MEGA		
Serial No.	N/A			
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014			
Test Date	October 10 to October 22, 2017			
Issue Date	October 23, 2017			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
mans.	He	David Huang		
Evans H	le	David Huang		
Test Engineer		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



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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.

	•
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

Accreditations for Conformity Assessment



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17071008-FCC-E	NONE	Original	October 23, 2017

2. Customer information

Applicant Name	BLU Products, Inc
Applicant Add	10814 NW 33rd St # 10 Doral, FL 33172,USA
Manufacturer	BLU Products, Inc
Manufacturer Add	10814 NW 33rd St # 100 Doral, FL 33172,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	EZ EMC(vor lop 0244)	
Conducted Emission	EZ-EMC(ver.lcp-03A1)	



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4. Equipment under Test (EUT) Information

Description of EUT:	Feature Phone
Main Model:	TANK MEGA
Serial Model:	N/A
	GSM850: 0.5dBi
Antenna Gain:	PCS1900: 0.8dBi
	Bluetooth: 1.0dBi
	GSM: PIFA antenna
Antenna Type:	BT: Monopole antenna
	Adapter:
	Model: US-WW-1003
	Input: AC100-240V~50/50Hz,0.2mA
Input Power:	Output: DC 5.0V, 1.0A
input i ower.	Battery:
	Model: C724211360L
	Spec: 3.7V, 600mAh
	Voltage: 4.2V
Equipment Category :	JBP
	GSM / GPRS: GMSK
Type of Modulation:	Bluetooth: GFSK, π /4DQPSK, 8DPSK
	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
	Bluetooth: 2402-2480 MHz
	GSM 850: 124CH
Number of Channels:	PCS1900: 299CH
	Bluetooth: 79CH
Port:	USB Port, Earphone Port



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Trade Name :

BLU

FCC ID:	YHLBLUTKMEGA
GPRS Multi-slot class	8/10/11/12
Date EUT received:	October 09, 2017
Test Date(s):	October 10 to October 22, 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)	±3.11dB		
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	25 °C
Relative Humidity	55%
Atmospheric Pressure	1012mbar
Test date :	October 10, 2017
Tested By :	Evans He

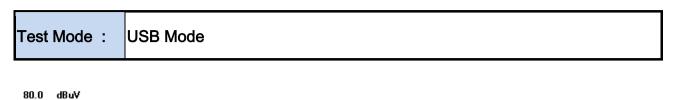
Requirement(s):

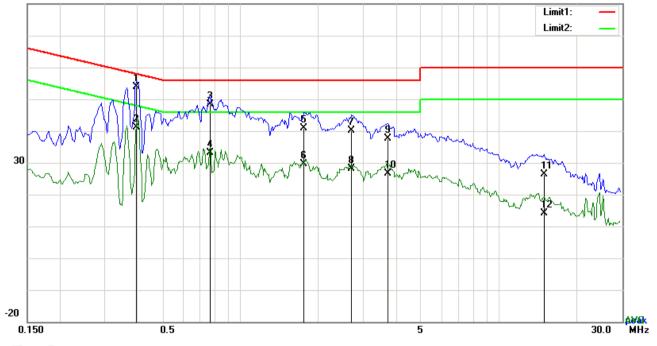
Spec	Item	m Requirement Applicable						
47CFR§15. 107	a)	a) For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz 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. Frequency ranges Limit (dBµV) (MHz) QP Average						
		0.15 ~ 0.5 0.5 ~ 5 5 ~ 30	66 – 56 56 60	56 – 46 46 50				
Test Setup	Vertical Ground Reference Plane UT UT Bocm Bocm Horizontal Ground Reference Plane 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	 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 filtered mains. 							

Image: Top: Top: Top: Top: Top: Top: Top: Top								
Page 10 of 36 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 Page Image: Page N/A		MIC	Test Report	17071008-ECC-E				
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 All other supporting equipment were powered separately from another main supply. The EUT was switched on and allowed to warm up to its normal operating condition. 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. 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. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power). Remark Result Pass Fail Test Data			EUT LISN was co	nnected to the EMI test receiver via a low-loss				
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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		over the required fr	equency range usi	ng an EMI test receiver.				
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		7. High peaks, relative	e to the limit line, T	he EMI test receiver was then tuned to the				
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		-	es and the necessa	ry measurements made with a receiver bandwidth				
Remark Result Pass Fail Test Data Yes N/A		_						
Result Pass Fail Test Data Yes		8. Step 7 was then re	peated for the LIVE	E line (for AC mains) or DC line (for DC power).				
Test Data Yes	Remark							
	Result	Pass	Fail					



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Test Data

No.

1

2

3

4

5

6

7

8

9

10

11 12 3.7254

14.9262

14.9262

L1

L1

L1

P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
L1	0.3957	43.91	QP	10.03	53.94	57.94	-4.00
L1	0.3957	31.09	AVG	10.03	41.12	47.94	-6.82
L1	0.7662	38.39	QP	10.03	48.42	56.00	-7.58
L1	0.7662	23.11	AVG	10.03	33.14	46.00	-12.86
L1	1.7685	30.80	QP	10.04	40.84	56.00	-15.16
L1	1.7685	19.70	AVG	10.04	29.74	46.00	-16.26
L1	2.6928	30.01	QP	10.05	40.06	56.00	-15.94
L1	2.6928	18.07	AVG	10.05	28.12	46.00	-17.88
L1	3.7254	27.49	QP	10.06	37.55	56.00	-18.45

AVG

QP

AVG

10.06

10.22

10.22

26.58

26.44

14.23

46.00

60.00

50.00

-19.42

-33.56

-35.77

16.52

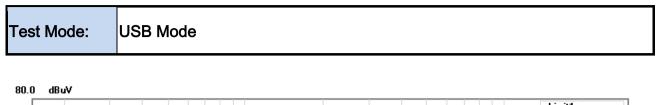
16.22

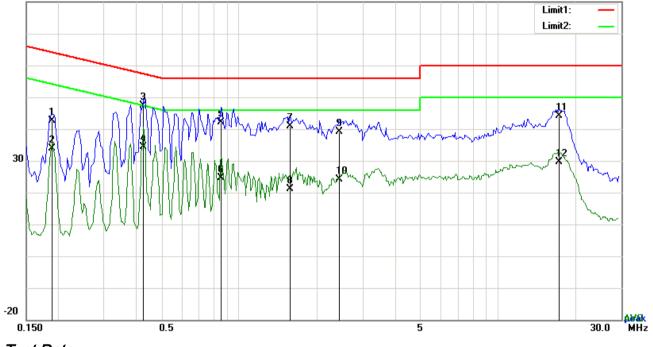
4.01

Phase Line Plot at 120Vac, 60Hz



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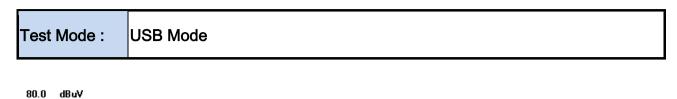
Test Data

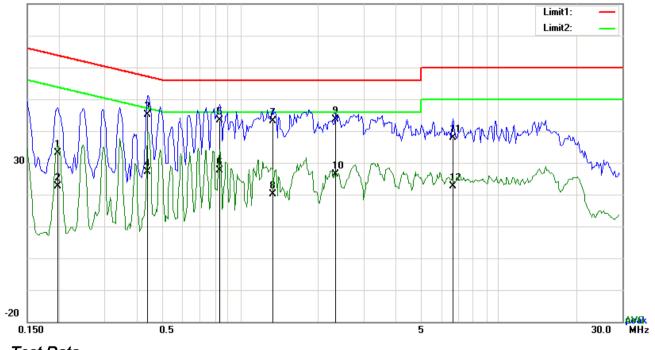
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)	
1	Ν	0.1890	32.59	QP	10.02	42.61	64.08	-21.47	
2	Ν	0.1890	23.79	AVG	10.02	33.81	54.08	-20.27	
3	Ν	0.4269	37.29	QP	10.02	47.31	57.31	-10.00	
4	Ν	0.4269	24.26	AVG	10.02	34.28	47.31	-13.03	
5	Ν	0.8520	32.14	QP	10.03	42.17	56.00	-13.83	
6	Ν	0.8520	14.70	AVG	10.03	24.73	46.00	-21.27	
7	Ν	1.5735	30.74	QP	10.04	40.78	56.00	-15.22	
8	Ν	1.5735	11.10	AVG	10.04	21.14	46.00	-24.86	
9	Ν	2.4354	29.16	QP	10.04	39.20	56.00	-16.80	
10	Ν	2.4354	14.00	AVG	10.04	24.04	46.00	-21.96	
11	Ν	17.2857	33.89	QP	10.23	44.12	60.00	-15.88	
12	Ν	17.2857	19.42	AVG	10.23	29.65	50.00	-20.35	

Phase Neutral Plot at 120Vac, 60Hz



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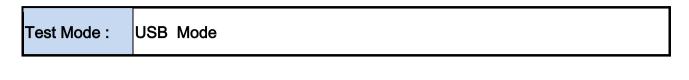
Test Data

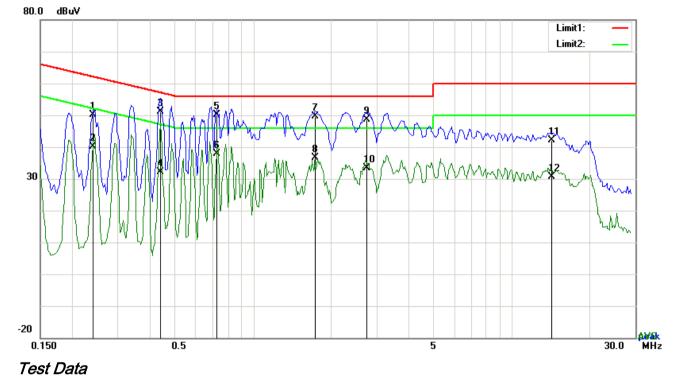
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin		
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)		
1	L1	0.1968	23.02	QP	10.03	33.05	63.74	-30.69		
2	L1	0.1968	12.56	AVG	10.03	22.59	53.74	-31.15		
3	L1	0.4386	35.13	QP	10.03	45.16	57.09	-11.93		
4	L1	0.4386	17.19	AVG	10.03	27.22	47.09	-19.87		
5	L1	0.8325	33.36	QP	10.03	43.39	56.00	-12.61		
6	L1	0.8325	17.65	AVG	10.03	27.68	46.00	-18.32		
7	L1	1.3317	33.04	QP	10.03	43.07	56.00	-12.93		
8	L1	1.3317	10.02	AVG	10.03	20.05	46.00	-25.95		
9	L1	2.3379	33.48	QP	10.05	43.53	56.00	-12.47		
10	L1	2.3379	16.35	AVG	10.05	26.40	46.00	-19.60		
11	L1	6.6348	27.67	QP	10.10	37.77	60.00	-22.23		
12	L1	6.6348	12.57	AVG	10.10	22.67	50.00	-27.33		

Phase Line Plot at 240Vac, 60Hz



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Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	Ν	0.2397	40.13	QP	10.02	50.15	62.11	-11.96
2	Ν	0.2397	30.23	AVG	10.02	40.25	52.11	-11.86
3	Ν	0.4386	41.18	QP	10.02	51.20	57.09	-5.89
4	Ν	0.4386	21.99	AVG	10.02	32.01	47.09	-15.08
5	Ν	0.7233	40.12	QP	10.02	50.14	56.00	-5.86
6	Ν	0.7233	27.97	AVG	10.02	37.99	46.00	-8.01
7	Ν	1.7412	39.47	QP	10.04	49.51	56.00	-6.49
8	Ν	1.7412	26.47	AVG	10.04	36.51	46.00	-9.49
9	Ν	2.7474	38.60	QP	10.05	48.65	56.00	-7.35
10	Ν	2.7474	23.30	AVG	10.05	33.35	46.00	-12.65
11	Ν	14.2203	31.96	QP	10.19	42.15	60.00	-17.85
12	Ν	14.2203	20.38	AVG	10.19	30.57	50.00	-19.43



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6.2 Radiated Emissions

Temperature	25 °C
Relative Humidity	55%
Atmospheric Pressure	1012mbar
Test date :	October 10, 2017
Tested By :	Evans He

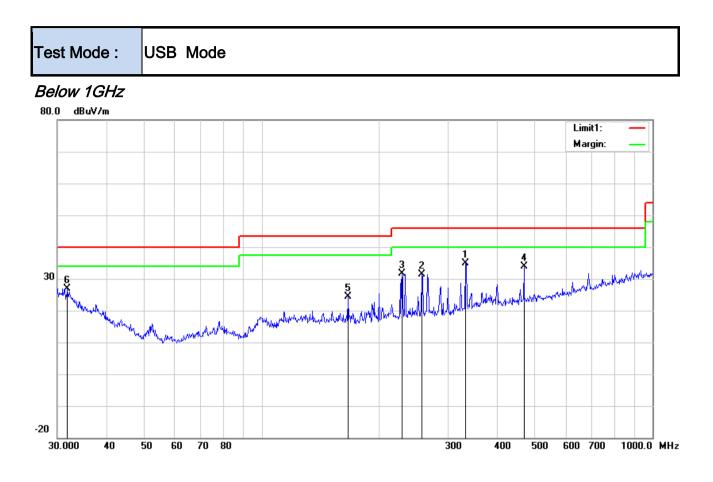
Requirement(s):

Spec	Item	Item Requirement Appli				
47CFR§15. 109(d)	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 tigh edges Frequency range (MHz) 30 – 88	p-frequency devices shall not cified in the following table and s shall not exceed the level of	V		
		88 – 216 216 - 960	150 200			
		Above 960	500			
Test Setup	up					
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 					

3			
SIE	MIC	Test Report	17071008-FCC-E
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	ove	r a full rotation of the E	UT) was chosen.
	b. The	EUT was then rotated	t to the direction that gave the maximum
	emi	ssion.	
		ally, the antenna height ssion.	t was adjusted to the height that gave the maximum
	3. The resoluti	on bandwidth and vide	o bandwidth of test receiver/spectrum analyzer is
	120 kHz for	Quasiy Peak detection	n at frequency below 1GHz.
	4. The resolution	on bandwidth of test rec	ceiver/spectrum analyzer is 1MHz and video
		s 3MHz with Peak dete	ection for Peak measurement at frequency above
	1GHz.		
			eceiver/spectrum analyzer is 1MHz and the video
			r Average Measurement as below at frequency
	above 1GF) Hz (Duty cycle > 98%)
		,	ne next frequency point, until all selected frequency
	points were	-	
	p		
Remark			
Result	Pass	🗖 Fail	
Test Data	Yes	□ _{N/A}	
_			
Test Plot	Yes (See below)	□ _{N/A}	



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Test Data

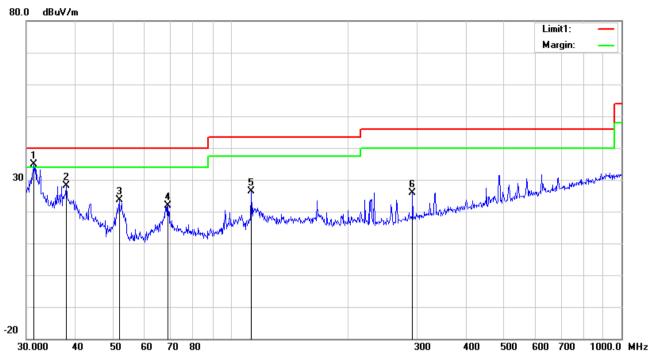
Horizontal Polarity Plot @3m

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	332.5187	40.76	peak	14.28	22.20	1.95	34.79	46.00	-11.21	100	355
2	Н	257.4222	40.27	peak	11.73	22.29	1.71	31.42	46.00	-14.58	100	107
3	Н	228.4904	40.68	peak	11.70	22.33	1.63	31.68	46.00	-14.32	100	86
4	Н	468.8762	36.55	peak	17.08	21.87	2.24	34.00	46.00	-12.00	100	94
5	Н	166.6514	33.28	peak	12.07	22.26	1.37	24.46	43.50	-19.04	100	317
6	Н	31.8427	28.53	peak	19.98	22.27	0.67	26.91	40.00	-13.09	100	17



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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	31.3992	36.05	QP	20.32	22.27	0.66	34.76	40.00	-5.24	100	358
2	V	37.9450	34.24	peak	15.40	22.27	0.78	28.15	40.00	-11.85	100	150
3	V	51.8430	37.11	peak	8.20	22.39	0.79	23.71	40.00	-16.29	100	347
4	V	69.1141	35.56	peak	7.76	22.38	0.96	21.90	40.00	-18.10	100	83
5	V	112.9196	35.00	peak	12.66	22.35	1.17	26.48	43.50	-17.02	100	85
6	V	292.0583	33.23	peak	13.25	22.29	1.78	25.97	46.00	-20.03	100	20



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Above 1GHz

Frequency	Read_level	Azimuth	Height	Polarity	Level	Factors	Limit	Margin	Detector
(MHz)	(dBµV/m)	Azimuu	(cm)	(H/V)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(PK/AV)
1462.8	64.82	78	100	V	-18.55	46.27	74	-27.73	PK
1532.9	62.52	135	100	V	-18.21	44.31	74	-29.69	PK
2057.8	59.92	132	100	V	-14.9	45.02	74	-28.98	PK
1632.5	65.25	190	100	Н	-17.64	47.61	74	-26.39	PK
1845.9	61.9	227	100	Н	-15.98	45.92	74	-28.08	PK
2450.3	56.85	145	100	Н	-13.7	43.15	74	-30.85	PK

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

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 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	2		
Line Impedance Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	K		
ISN	ISN T800	34373	09/23/2017	09/22/2018			
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	V		
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	V		
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/19/2017	09/18/2018	V		
Double Ridge Horn Antenna	AH-118	71259	09/22/2017	09/21/2018	Z		



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View

Adapter - Lable View





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EUT - Front View



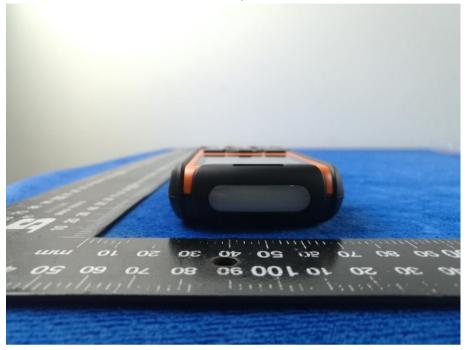
EUT - Rear View



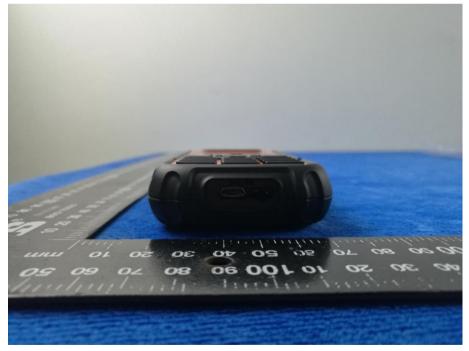


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EUT - Top View



EUT - Bottom View





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EUT - Left View



EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo



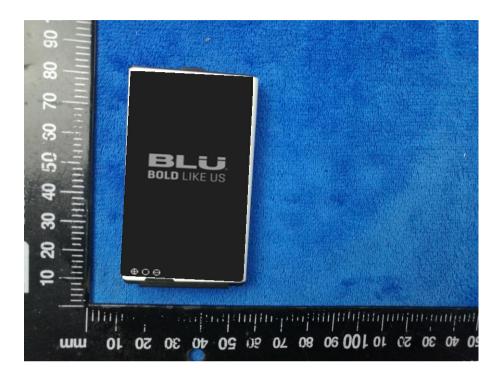
Cover Off - Top View 2





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Battery - Front View



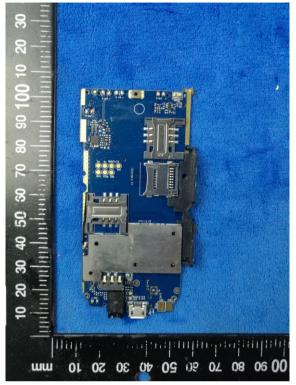
Battery - Rear View



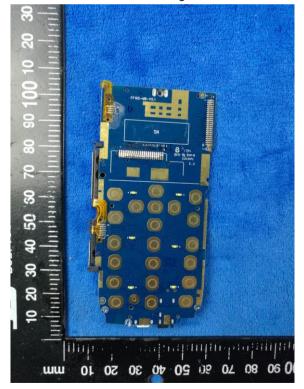


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Mainboard with Shielding - Front View



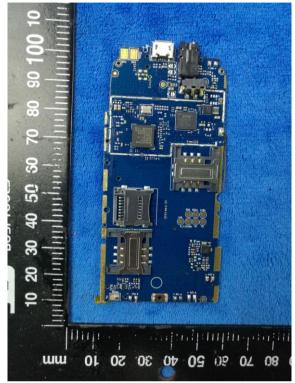
Mainboard with Shielding - Rear View



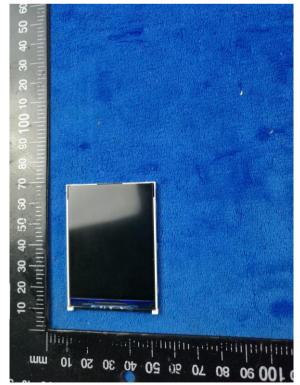


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Mainboard without Shielding - Front View



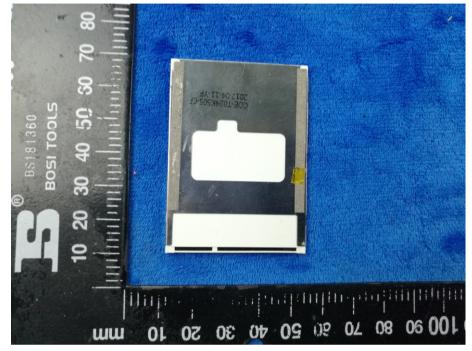
LCD - Front View



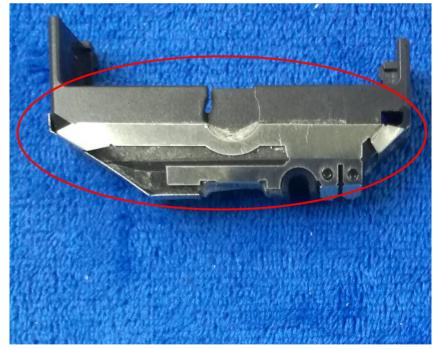


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LCD - Rear View



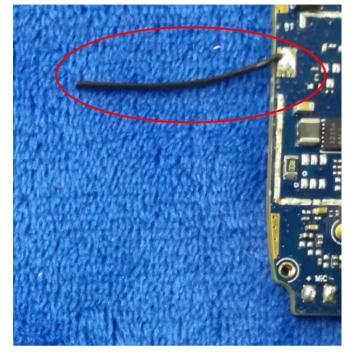
GSM/PCS/UMTS-FDD - Antenna View





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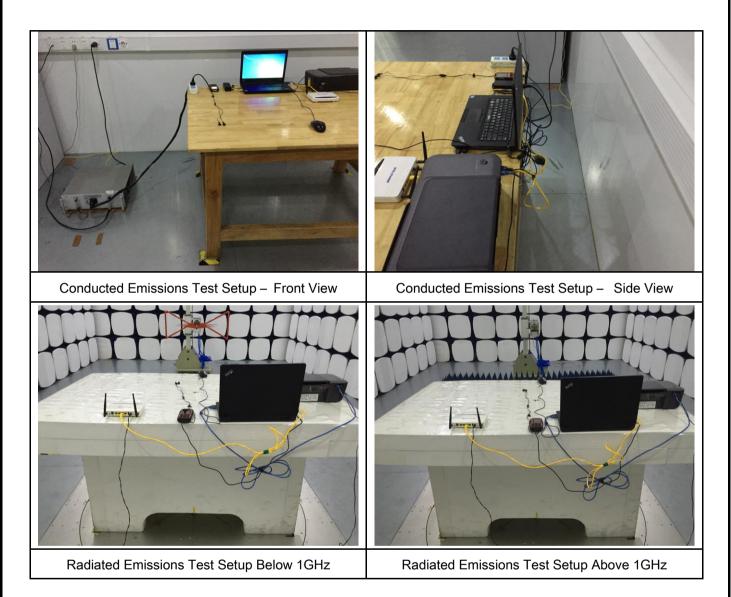
BT - Antenna View





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Annex B.iii. Photograph: Test Setup Photo



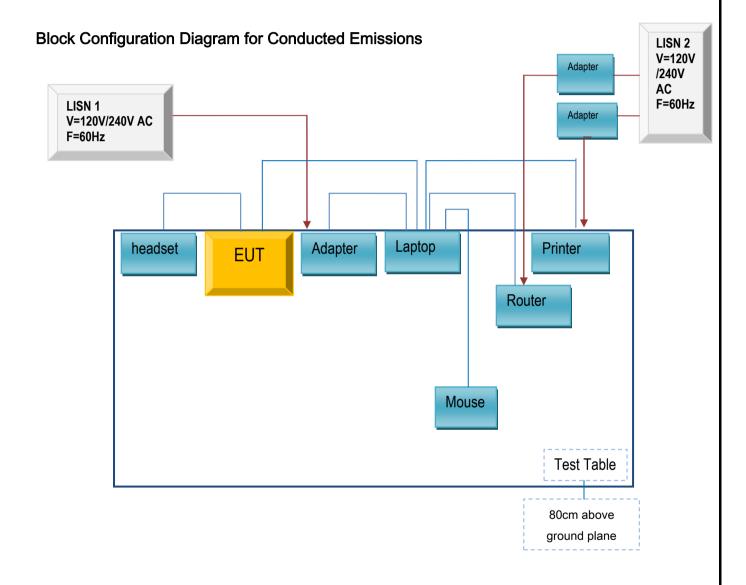


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

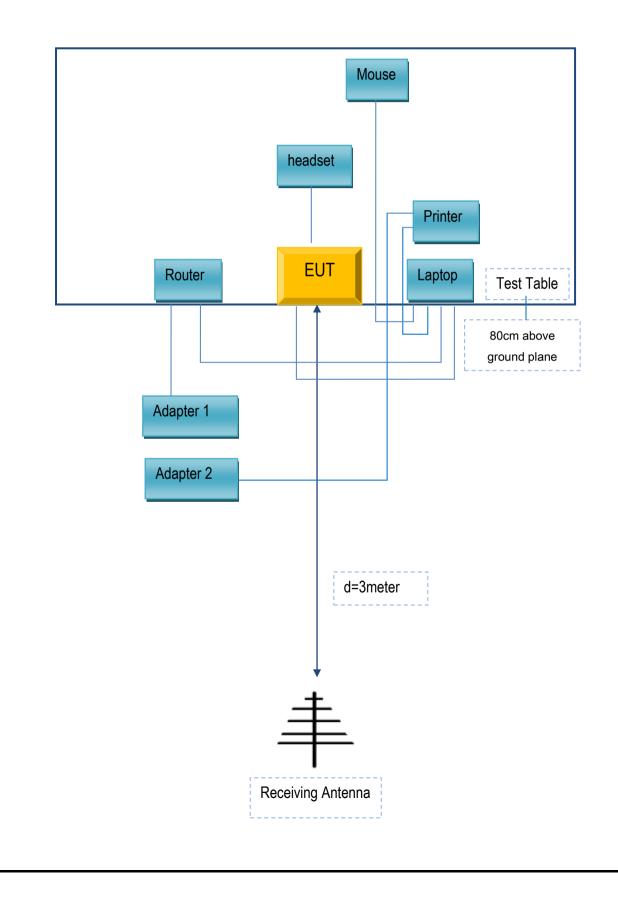
Annex C.ii. TEST SET UP BLOCK





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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