# EMC TEST REPORT



Report No.: 17071380-FCC-E
Supersede Report No: N/A

Applicant	BLU Products,Inc				
Product Name	Mobile Pho	Mobile Phone			
Model No.	VIVO ONE				
Serial No.	N/A				
Test Standard	FCC Part 1	5 Subpart B	Class B:2016, A	NSI C63.4: 2014	
Test Date	December	12 to January	<i>,</i> 11, 2018		
Issue Date	January 12	January 12, 2018			
Test Result	Pass	Pass Fail			
Equipment compl	Equipment complied with the specification				
Equipment did not comply with the specification					
mais.	He	David	Huang		
Evans He Test Engineer			Huang cked 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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Test Report	17071380-FCC-E
Page	2 of 39

# **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**

	<u> </u>
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



Test Report	17071380-FCC-E
Page	3 of 39

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Test Report	17071380-FCC-E
Page	4 of 39

# **CONTENTS**

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5.	TEST SUMMARY	9
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	. 10
6.1	AC POWER LINE CONDUCTED EMISSIONS	. 10
6.2	RADIATED EMISSIONS	. 16
ANI	NEX A. TEST INSTRUMENT	.21
INA	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	. 22
INA	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	. 35
INA	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	. 38
INA	NEX E. DECLARATION OF SIMILARITY	. 39



Test Report	17071380-FCC-E
Page	5 of 39

# 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17071380-FCC-E	NONE	Original	January 12, 2018

# 2. Customer information

Applicant Name	BLU Products,Inc
Applicant Add	10814 NW 33rd St # 100 Doral, FL 33172,USA
Manufacturer	BLU Products,Inc
Manufacturer Add	10814 NW 33rd St # 100 Doral, FL 33172,USA

## 3. Test site information

#### Test Lab A:

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	Radiated Emission Program-To Shenzhen v2.0	

#### Test Lab B:

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and
	Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMC(ver.lcp-03A1)

Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.



Test Report	17071380-FCC-E
Page	6 of 39

## 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone

Main Model: VIVO ONE

Serial Model: N/A

GSM850: -2.53dBi PCS1900: -1.31dBi

UMTS-FDD Band V: -2dBi UMTS-FDD Band IV: -0.18dBi UMTS-FDD Band II: -1.74dBi

LTE Band II: -1.31dBi

Antenna Gain: LTE Band IV: -2.64dBi

LTE Band VII: -0.27dBi LTE Band XII: -2.53dBi LTE Band XVII: -3.19dBi Bluetooth/BLE: 0.46dBi

WIFI: 0.46dBi GPS: 0.05dBi

Antenna Type: PIFA Antenna

Adapter:

Model: TPA-46050150UU

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

Input Power: Output: DC 5V,1.5A

Battery:

Model: C735546300P

Spec: 3.8V, 3000mAh,11.4Wh

Equipment Category: JBP

GSM / GPRS: GMSK

EGPRS: GMSK,8PSK

Type of Modulation: UMTS-FDD: QPSK

LTE Band: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM



Test Report	17071380-FCC-E
Page	7 of 39

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS: BPSK

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 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

RF Operating Frequency (ies):

LTE Band II TX:  $1850.7 \sim 1909.3 \text{MHz}$ ; RX:  $1930.7 \sim 1989.3 \text{ MHz}$  LTE Band IV TX:  $1710.7 \sim 1754.3 \text{ MHz}$ ; RX:  $2110.7 \sim 2154.3 \text{ MHz}$  LTE Band VII TX:  $2502.5 \sim 2567.5 \text{ MHz}$ ; RX:  $2622.5 \sim 2687.5 \text{ MHz}$ 

LTE Band XII TX:699.7 ~ 715.3 MHz; RX : 729.7~ 745.3MHz LTE Band XVII TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 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 IV: 202CH 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: USB Port, Earphone Port

Trade Name : BLU

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

FCC ID: YHLBLUVIVOONE



Test Report	17071380-FCC-E
Page	8 of 39

Date EUT received: Decem	per 11, 2017	

Test Date(s): December 12 to January 11, 2018



Test Report	17071380-FCC-E
Page	9 of 39

# 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)	13.1100
Radiated Emission(30MHz~1GHz)	±5.12dB
Radiated Emission(1GHz~6GHz)	±5.34dB



Test Report	17071380-FCC-E
Page	10 of 39

# 6. Measurements, Examination And Derived Results

# 6.1 AC Power Line Conducted Emissions

Temperature	25 °C	
Relative Humidity	53%	
Atmospheric Pressure	1010mbar	
Test date :	December 12, 2017	
Tested By :	Evans He	

#### Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15.	connected to the public voltage that is conducte frequency or frequencie not exceed the limits in		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		<b>&gt;</b>
107		Frequency ranges	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  Boom  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	<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>				



Test Report	17071380-FCC-E
Page	11 of 39

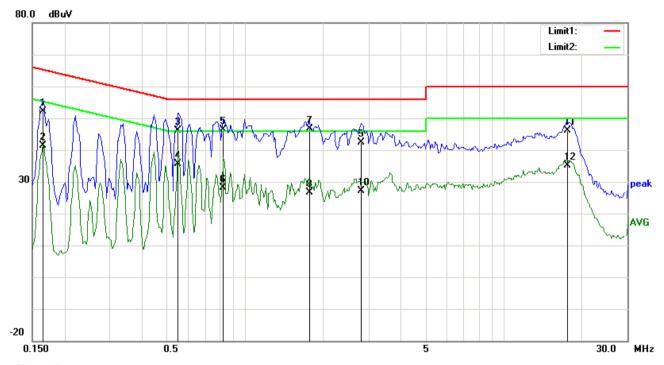
	3.	The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
		coaxial cable.
	4.	All other supporting equipment were powered separately from another main supply.
	5.	The EUT was switched on and allowed to warm up to its normal operating condition.
	6.	A scan was made on the NEUTRAL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

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



Test Report	17071380-FCC-E
Page	12 of 39

Test Mode : USB Mode



#### Test Data

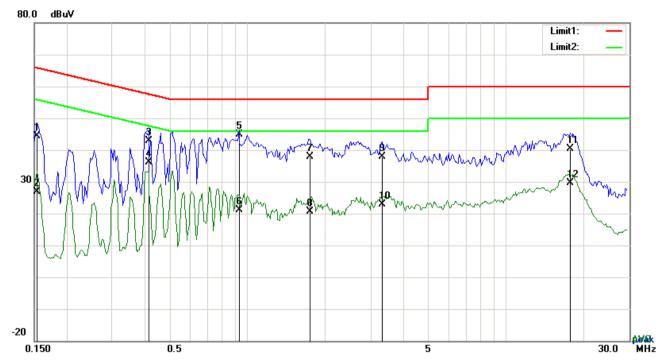
## Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1656	42.11	QP	10.03	52.14	65.18	-13.04
2	L1	0.1656	31.33	AVG	10.03	41.36	55.18	-13.82
3	L1	0.5517	36.16	QP	10.03	46.19	56.00	-9.81
4	L1	0.5517	25.72	AVG	10.03	35.75	46.00	-10.25
5	L1	0.8247	36.39	QP	10.03	46.42	56.00	-9.58
6	L1	0.8247	18.17	AVG	10.03	28.20	46.00	-17.80
7	L1	1.7802	36.62	QP	10.04	46.66	56.00	-9.34
8	L1	1.7802	16.58	AVG	10.04	26.62	46.00	-19.38
9	L1	2.8020	32.27	QP	10.05	42.32	56.00	-13.68
10	L1	2.8020	17.03	AVG	10.05	27.08	46.00	-18.92
11	L1	17.6055	35.77	QP	10.26	46.03	60.00	-13.97
12	L1	17.6055	24.77	AVG	10.26	35.03	50.00	-14.97



Test Report	17071380-FCC-E
Page	13 of 39

Test Mode: USB Mode
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#### Test Data

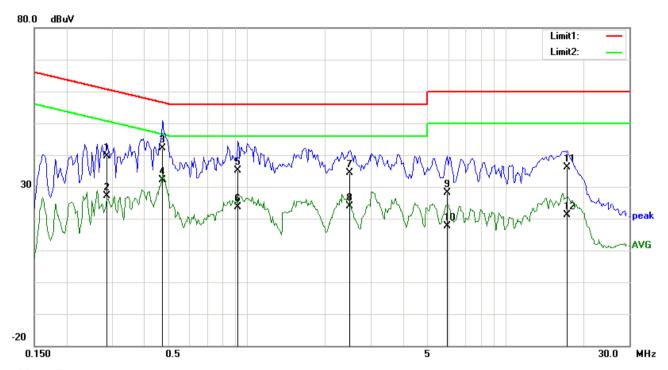
## Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1539	34.26	QP	10.02	44.28	65.79	-21.51
2	N	0.1539	16.83	AVG	10.02	26.85	55.79	-28.94
3	N	0.4152	32.84	QP	10.02	42.86	57.54	-14.68
4	N	0.4152	26.05	AVG	10.02	36.07	47.54	-11.47
5	N	0.9300	34.97	QP	10.03	45.00	56.00	-11.00
6	N	0.9300	11.00	AVG	10.03	21.03	46.00	-24.97
7	N	1.7451	27.94	QP	10.04	37.98	56.00	-18.02
8	N	1.7451	10.68	AVG	10.04	20.72	46.00	-25.28
9	N	3.3159	27.88	QP	10.05	37.93	56.00	-18.07
10	N	3.3159	12.83	AVG	10.05	22.88	46.00	-23.12
11	N	17.7264	30.24	QP	10.23	40.47	60.00	-19.53
12	N	17.7264	19.43	AVG	10.23	29.66	50.00	-20.34



Test Report	17071380-FCC-E
Page	14 of 39

Test Mode : USB Mode



#### Test Data

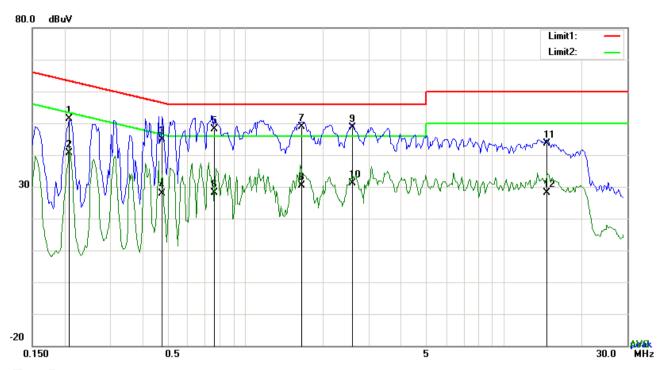
## Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2865	29.48	QP	10.03	39.51	60.63	-21.12
2	L1	0.2865	17.03	AVG	10.03	27.06	50.63	-23.57
3	L1	0.4698	32.13	QP	10.03	42.16	56.52	-14.36
4	L1	0.4698	22.09	AVG	10.03	32.12	46.52	-14.40
5	L1	0.9222	25.22	QP	10.03	35.25	56.00	-20.75
6	L1	0.9222	13.53	AVG	10.03	23.56	46.00	-22.44
7	L1	2.4978	24.39	QP	10.05	34.44	56.00	-21.56
8	L1	2.4978	13.75	AVG	10.05	23.80	46.00	-22.20
9	L1	5.9562	18.08	QP	10.09	28.17	60.00	-31.83
10	L1	5.9562	7.45	AVG	10.09	17.54	50.00	-32.46
11	L1	17.2350	25.76	QP	10.26	36.02	60.00	-23.98
12	L1	17.2350	10.83	AVG	10.26	21.09	50.00	-28.91



Test Report	17071380-FCC-E
Page	15 of 39

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	0.2085	41.33	QP	10.02	51.35	63.26	-11.91
2	N	0.2085	30.60	AVG	10.02	40.62	53.26	-12.64
3	N	0.4776	34.87	QP	10.02	44.89	56.38	-11.49
4	N	0.4776	17.88	AVG	10.02	27.90	46.38	-18.48
5	N	0.7623	38.05	QP	10.03	48.08	56.00	-7.92
6	N	0.7623	18.00	AVG	10.03	28.03	46.00	-17.97
7	N	1.6593	38.95	QP	10.04	48.99	56.00	-7.01
8	N	1.6593	20.26	AVG	10.04	30.30	46.00	-15.70
9	N	2.5953	38.49	QP	10.05	48.54	56.00	-7.46
10	N	2.5953	21.13	AVG	10.05	31.18	46.00	-14.82
11	N	14.6337	33.43	QP	10.20	43.63	60.00	-16.37
12	N	14.6337	17.83	AVG	10.20	28.03	50.00	-21.97



Test Report	17071380-FCC-E
Page	16 of 39

# 6.2 Radiated Emissions

Temperature	24 °C
Relative Humidity	55%
Atmospheric Pressure	1008mbar
Test date :	December 13, 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 spet the level of any unwanted emission the fundamental emission. The tight edges	V					
109(d)	ŕ	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							
Procedure	1. The EUT was switched on and allowed to warm up to its normal operating condiction.  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 changing the antenna polarization, and adjusting the antenna height in the follow manner:  a. Vertical or horizontal polarization (whichever gave the higher emission leading).							



Test Report	17071380-FCC-E
Page	17 of 39

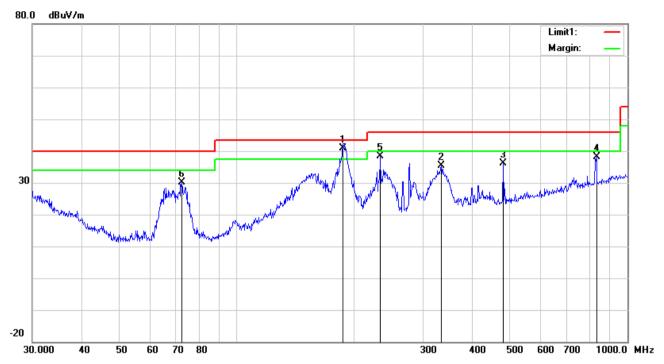
		over a full rotation of the EUT) was chosen.
	b.	The EUT was then rotated to the direction that gave the maximum
		emission.
	C.	Finally, the antenna height was adjusted to the height that gave the maximum
		emission.
	3. The	resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
	120	kHz for Quasiy Peak detection at frequency below 1GHz.
	4. The re	esolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	band	width is 3MHz with Peak detection for Peak measurement at frequency above
	1GH	z.
	The	resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	ban	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
	point	s were measured.
Remark		
Remark		
Result	Pass	Fail
	7	
Test Data	Yes	N/A
Test Plot	Yes (See be	elow) N/A



Test Report	17071380-FCC-E
Page	18 of 39

Test Mode : USB Mode

#### Below 1GHz



#### Test Data

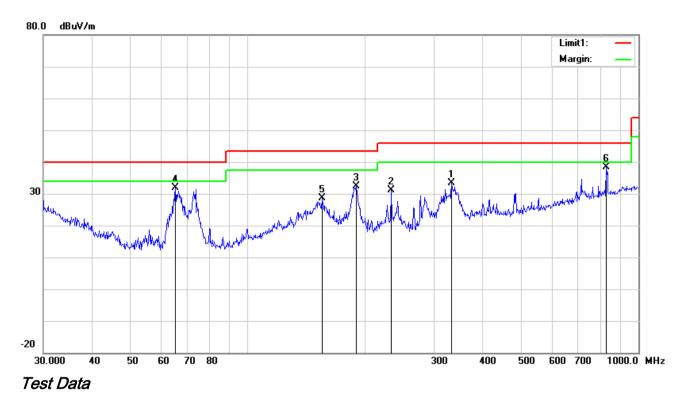
## Horizontal Polarity Plot @3m

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	187.0958	50.18	QP	11.39	22.30	1.49	40.76	43.50	-2.74	100	104
2	Н	333.6867	41.20	peak	14.31	22.20	1.96	35.27	46.00	-10.73	200	136
3	П	480.5276	38.41	peak	17.31	21.85	2.31	36.18	46.00	-9.82	100	43
4	Н	833.3171	34.48	peak	21.77	21.06	2.90	38.09	46.00	-7.91	100	308
5	Н	233.3487	47.45	peak	11.63	22.32	1.65	38.41	46.00	-7.59	100	135
6	Н	72.3376	43.74	peak	7.75	22.39	0.97	30.07	40.00	-9.93	100	185



Test Report	17071380-FCC-E
Page	19 of 39

#### Below 1GHz



# 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	332.5187	39.42	peak	14.28	22.20	1.95	33.45	46.00	-12.55	100	102
2	V	233.3487	40.19	peak	11.63	22.32	1.65	31.15	46.00	-14.85	100	228
3	V	189.7385	41.64	peak	11.54	22.31	1.54	32.41	43.50	-11.09	100	84
4	V	65.3432	45.73	peak	7.57	22.39	0.89	31.80	40.00	-8.20	100	228
5	V	154.8205	37.02	peak	12.60	22.31	1.36	28.67	43.50	-14.83	100	81
6	V	827.4934	34.74	peak	21.70	21.08	2.91	38.27	46.00	-7.73	100	269



Test Report	17071380-FCC-E
Page	20 of 39

#### 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)
1505.71	67.22	335	100	V	-18.47	48.75	74	-25.25	PK
2123.65	61.22	357	100	V	-14.69	46.53	74	-27.47	PK
4394.23	56.21	161	100	V	-8.63	47.58	74	-26.42	PK
2099.09	59.21	18	100	Н	-14.03	45.18	74	-28.82	PK
4692.27	54.36	307	100	Н	-5.79	48.57	74	-25.43	PK
4997.01	50.59	300	100	Н	-2.95	47.64	74	-26.36	PK

Note1: The highest frequency of the EUT is 2567.5 MHz, so the testing has been conformed to 5\*2567.5MHz=12,838MHz.

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.

Note4: The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found

30dB below the limit at least.



Test Report	17071380-FCC-E
Page	21 of 39

# 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	<u>&lt;</u>
Line Impedance	LI-125A	191106	09/23/2017	09/22/2018	₹
Stabilization Network	LI-123A	191100	09/23/2017	09/22/2010	•
Line Impedance	11.4054	101107	00/22/2017	00/22/2019	<u>&lt;</u>
Stabilization Network	LI-125A	191107	09/23/2017	09/22/2018	
ISN	ISN T800	34373	09/23/2017	09/22/2018	<u>&lt;</u>
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	<u>&lt;</u>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/15/2017	09/14/2018	<u>&lt;</u>
OPT 010 AMPLIFIER	8447E	2727A02430	08/30/2017	08/29/2018	<u>&lt;</u>
(0.1-1300MHz)	0441⊑	2121A02430	00/30/2017	00/29/2010	
Microwave Preamplifier	0440D	2000 4 02 402	02/22/2047	02/22/2040	₹
(1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	
Bilog Antenna	JB6	A 4 4 0 7 4 0	00/40/2047	00/40/2040	₹
(30MHz~6GHz)	JDO	A110712	09/19/2017	09/18/2018	•
Double Ridge Horn	AH-118	71259	09/22/2017	09/21/2018	<u>&lt;</u>
Antenna	АП-110	71259	USIZZIZUTI	09/21/2018	1
Horn Antenna	BBHA9170	3145226D1	09/27/2017	09/26/2018	<



Test Report	17071380-FCC-E
Page	22 of 39

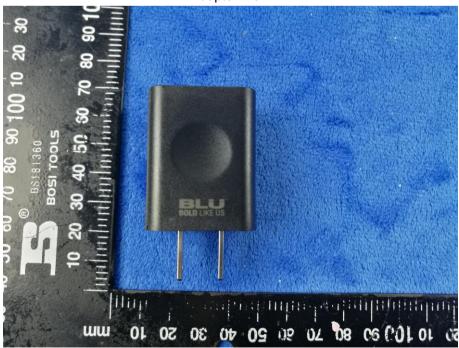
## Annex B. EUT And Test Setup Photographs

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





Adapter View



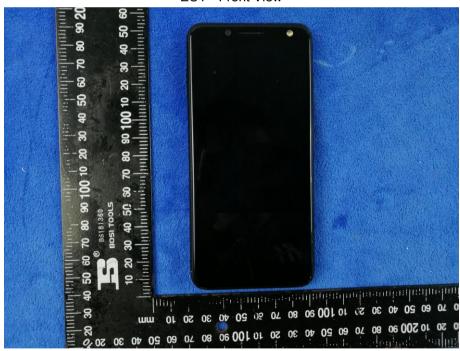


Test Report	17071380-FCC-E
Page	23 of 39

Label View



**EUT - Front View** 





Test Report	17071380-FCC-E
Page	24 of 39

**EUT - Rear View** 



**EUT - Top View** 





Test Report	17071380-FCC-E
Page	25 of 39

**EUT - Bottom View** 



EUT - Left View





Test Report	17071380-FCC-E
Page	26 of 39

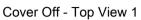
#### EUT - Right View





Test Report	17071380-FCC-E
Page	27 of 39

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





Cover Off - Top View 2





Test Report	17071380-FCC-E
Page	28 of 39

Battery - Front View



Battery - Rear View





Test Report	17071380-FCC-E
Page	29 of 39

#### Mainboard with Shielding - Front View



Mainboard without Shielding - Rear View





Test Report	17071380-FCC-E
Page	30 of 39

#### Smallboard - Front View



Smallboard - Rear View





Test Report	17071380-FCC-E
Page	31 of 39

LCD - Front View



LCD - Rear View





Test Report	17071380-FCC-E
Page	32 of 39

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

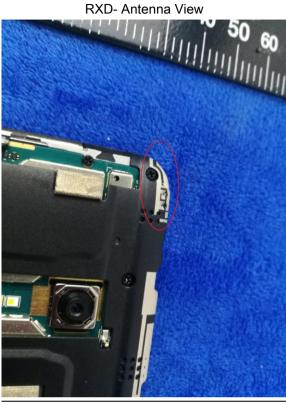


WIFI/BT/BLE/GPS - Antenna View





Test Report	17071380-FCC-E
Page	33 of 39





Test Report	17071380-FCC-E
Page	34 of 39

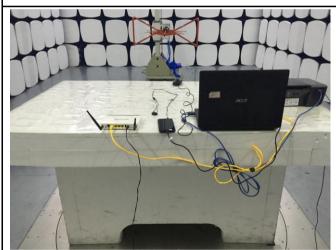
## Annex B.iii. Photograph: Test Setup Photo



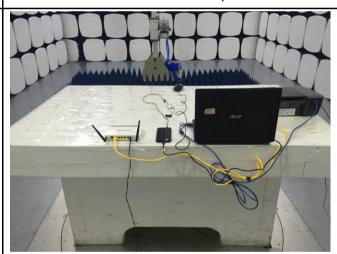
Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



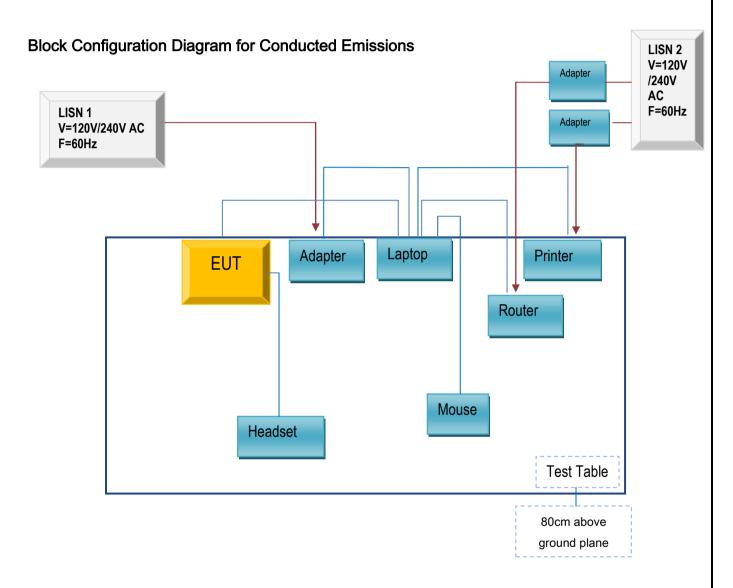
Radiated Emissions Test Setup Above 1GHz



Test Report	17071380-FCC-E
Page	35 of 39

## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

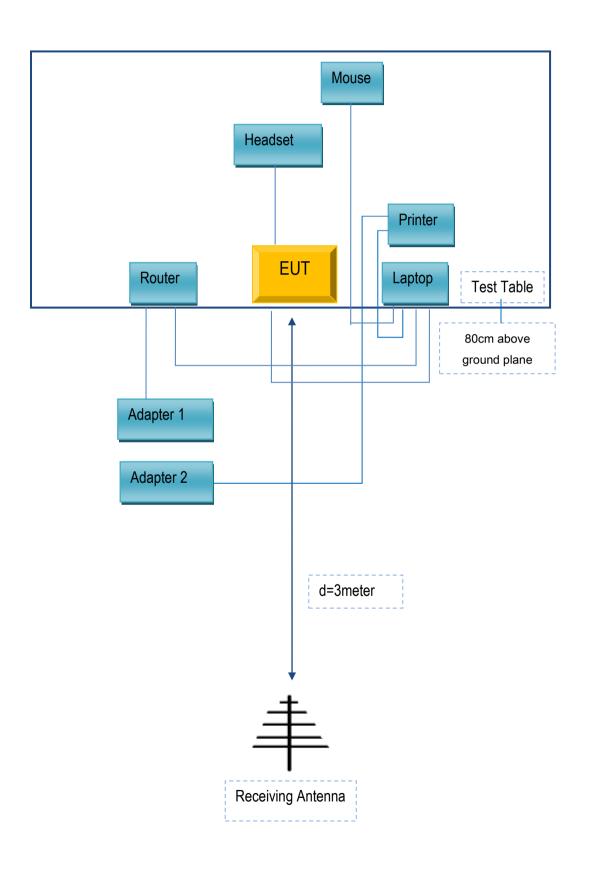
#### Annex C.ii. TEST SET UP BLOCK





Test Report	17071380-FCC-E
Page	36 of 39

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





Test Report	17071380-FCC-E
Page	37 of 39

## 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
BLU Products,Inc	headset	VIVO ONE	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



Test Report	17071380-FCC-E
Page	38 of 39

# Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



Test Report	17071380-FCC-E
Page	39 of 39

# Annex E. DECLARATION OF SIMILARITY

N/A