# EMC TEST REPORT



Report No.: 17070182-FCC-E
Supersede Report No: N/A

Applicant	Jethro Trac	ling LTD.		
Product Name	Jethro 3G Senior Cell Phone			
Model No.	SC318	SC318		
Serial No.	N/A			
Test Standard	FCC Part 1	5 Subpart B Class B:2015	5, ANSI C63.4: 2014	
Test Date	March 15 to	March 21, 2017		
Issue Date	March 22, 2	2017		
Test Result	sult Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
mas. He David Huang				
Evans He Test Engineer		David Huang 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

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Test Report	17070182-FCC-E
Page	2 of 38

### **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



Test Report	17070182-FCC-E
Page	3 of 38



Test Report	17070182-FCC-E
Page	4 of 38

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Test Report	17070182-FCC-E
Page	5 of 38

# **CONTENTS**

1.	REPORT REVISION HISTORY	6
2.	CUSTOMER INFORMATION	6
3.	TEST SITE INFORMATION	6
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	7
5.	TEST SUMMARY	9
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	11
6.1	AC POWER LINE CONDUCTED EMISSIONS	11
6.2	RADIATED EMISSIONS	17
ANI	NEX A. TEST INSTRUMENT	22
ANI	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	23
ANI	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	34
ANI	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	37
ΔΝΙ	NEX F DECLARATION OF SIMILARITY	.38



Test Report	17070182-FCC-E
Page	6 of 38

## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070182-FCC-E	NONE	Original	March 22, 2017

### 2. Customer information

Applicant Name	Jethro Trading LTD.	
Applicant Add	505 - 8840 210TH STREET, #231 Langley, Canada V1M2Y2	
Manufacturer	Shenzhen Bayuda Technologies,co.,ltd	
Manufacturer Add	Room A433 A Block, Shenzhen Industrial products exibition procurement center the	
	baoyuan road baoan distric	

### 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.	718246
IC Test Site No.	4842E-1
Test Software of	Dedicted Fusionism Drawners To Chambar v C C
Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of	E7 FMC(::::: :::::::::::::::::::::::::::::::
Conducted Emission	EZ-EMC(ver.lcp-03A1)



Test Report	17070182-FCC-E
Page	7 of 38

### 4. Equipment under Test (EUT) Information

Main Model: SC318

Serial Model: N/A

GSM850: 0.5dBi

PCS1900: 1.0dBi

Antenna Gain: UMTS-FDD Band V: 1.0dBi

UMTS-FDD Band II: 1.0dBi

Bluetooth: 0.5dBi

GSM/PCS/UMTS-FDD :PIFA antenna

Antenna Type:

BT : Monopole antenna

Adapter:

Model: HJ-050050-US

Input: AC100-240V~50/60Hz,0.1A

Input Power: Output: DC 5.0V,500mA

Battery:

Model:SC318

Spec: 3.7V,800mAh,2.96Wh

Voltage: 4.2V

Equipment Category: JBP

GSM / GPRS: GMSK

EGPRS: GMSK

Type of Modulation:

UMTS-FDD: QPSK

Bluetooth: GFSK,  $\pi$  /4DQPSK, 8DPSK

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

RF Operating Frequency (ies): UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

Bluetooth: 2402-2480 MHz



Test Report	17070182-FCC-E
Page	8 of 38

GSM 850: 124CH

PCS1900: 299CH

Number of Channels: UMTS-FDD Band V: 102CH

UMTS-FDD Band II: 277CH

Bluetooth: 79CH

Port: USB Port, Earphone Port

Trade Name : Jethro

FCC ID: 2AAWJSC318

Date EUT received: March 14, 2017

Test Date(s): March 15 to March 21, 2017



Test Report	17070182-FCC-E
Page	9 of 38

### 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



Test Report	17070182-FCC-E
Page	10 of 38

# **Measurement Uncertainty**

Parameter	Uncertainty	
AC Power Line Conducted Emissions	±3.71dB	
(150kHz~30MHz)	±3.7 Tdb	
Radiated Emission(30MHz~1GHz)	±5.12dB	
Radiated Emission(1GHz~6GHz)	±5.34dB	



Test Report	17070182-FCC-E
Page	11 of 38

# 6. Measurements, Examination And Derived Results

### 6.1 AC Power Line Conducted Emissions

Temperature	25 °C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	March 16, 2017
Tested By:	Evans He

#### Requirement(s):

	<u>'</u>	Requirement		
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			<u> </u>
	Frequency ranges	Limit (	dBμV)	
	(MHz)	QP	Average	
	0.15 ~ 0.5	66 – 56	56 – 46	
	0.5 ~ 5	56	46	
	5 ~ 30	60	50	
Vertical Ground Reference Plane  EUT  Boom  Horizontal Ground				
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.				
<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</li> </ol>				
	1. The the 2. The	a)  connected 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 Frequency ranges (MHz)  0.15 ~ 0.5  0.5 ~ 5  5 ~ 30	a)  connected to the public utility (AC) power line voltage that is conducted back onto the AC power frequency or frequencies, within the band 150 not exceed the limits in the following table, as [mu] H/50 ohms line impedance stabilization relower limit applies at the boundary between the (MHz) QP  0.15 ~ 0.5 66 - 56  0.5 ~ 5 56  5 ~ 30 60  Vertical Ground Reference Plane  1. The EUT and supporting equipment were set up in the standard on top of a 1.5m x 1m x 0.8m high, not at the power supply for the EUT was fed through a 50 cm.	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)   QP   Average



Test Report	17070182-FCC-E
Page	12 of 38

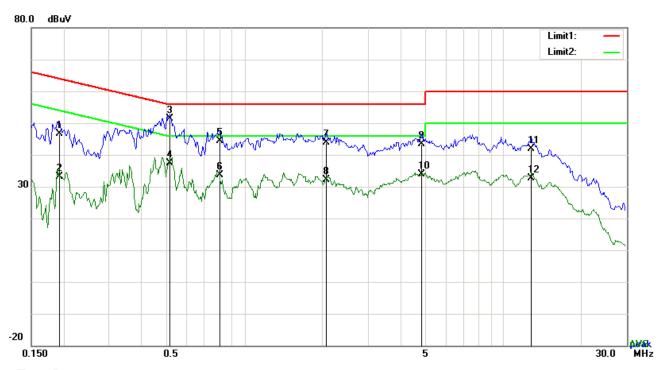
	3.	The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
		coaxial cable.
	4.	All other supporting equipment were powered separately from another main supply.
	5.	The EUT was switched on and allowed to warm up to its normal operating condition.
	6.	A scan was made on the NEUTRAL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



Test Report	17070182-FCC-E
Page	13 of 38

Test Mode : USB Mode



Test Data

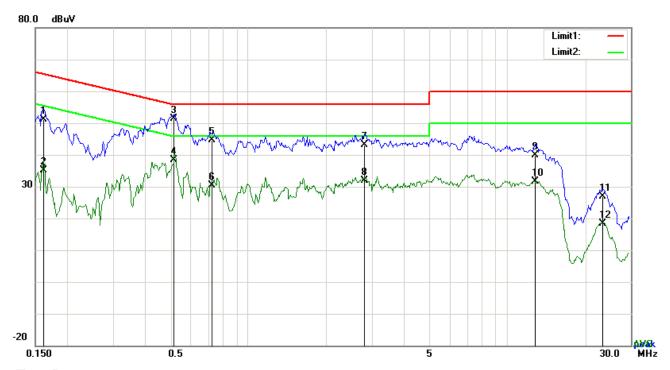
#### Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.1929	36.71	QP	10.03	46.74	63.91	-17.17
2	L1	0.1929	23.20	AVG	10.03	33.23	53.91	-20.68
3	L1	0.5166	41.36	QP	10.03	51.39	56.00	-4.61
4	L1	0.5166	27.40	AVG	10.03	37.43	46.00	-8.57
5	L1	0.8013	34.32	QP	10.03	44.35	56.00	-11.65
6	L1	0.8013	23.50	AVG	10.03	33.53	46.00	-12.47
7	L1	2.0688	33.88	QP	10.04	43.92	56.00	-12.08
8	L1	2.0688	22.08	AVG	10.04	32.12	46.00	-13.88
9	L1	4.8408	33.27	QP	10.08	43.35	56.00	-12.65
10	L1	4.8408	23.85	AVG	10.08	33.93	46.00	-12.07
11	L1	12.8085	31.71	QP	10.19	41.90	60.00	-18.10
12	L1	12.8085	22.35	AVG	10.19	32.54	50.00	-17.46



Test Report	17070182-FCC-E
Page	14 of 38

Test Mode : USB Mode



#### Test Data

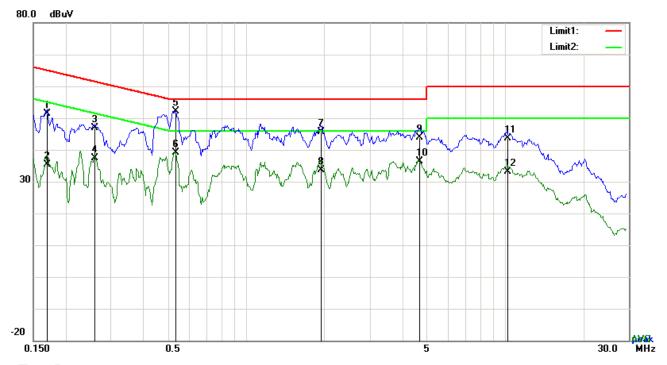
#### Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1617	41.02	QP	10.02	51.04	65.38	-14.34
2	N	0.1617	25.01	AVG	10.02	35.03	55.38	-20.35
3	N	0.5166	41.36	QP	10.02	51.38	56.00	-4.62
4	N	0.5166	28.43	AVG	10.02	38.45	46.00	-7.55
5	N	0.7272	34.55	QP	10.02	44.57	56.00	-11.43
6	Ν	0.7272	20.36	AVG	10.02	30.38	46.00	-15.62
7	N	2.8098	33.00	QP	10.05	43.05	56.00	-12.95
8	N	2.8098	21.91	AVG	10.05	31.96	46.00	-14.04
9	Ν	12.8202	29.82	QP	10.17	39.99	60.00	-20.01
10	Ν	12.8202	21.36	AVG	10.17	31.53	50.00	-18.47
11	N	23.3385	16.58	QP	10.31	26.89	60.00	-33.11
12	Ν	23.3385	7.97	AVG	10.31	18.28	50.00	-31.72



Test Report	17070182-FCC-E
Page	15 of 38

|--|



#### Test Data

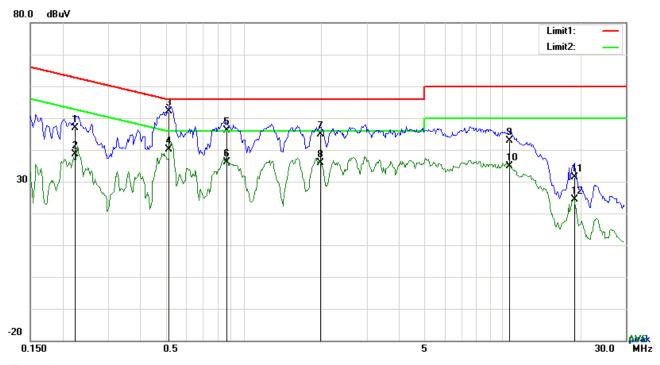
### Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1695	41.33	QP	10.03	51.36	64.98	-13.62
2	L1	0.1695	25.31	AVG	10.03	35.34	54.98	-19.64
3	L1	0.2592	36.85	QP	10.03	46.88	61.46	-14.58
4	L1	0.2592	27.39	AVG	10.03	37.42	51.46	-14.04
5	L1	0.5322	42.02	QP	10.03	52.05	56.00	-3.95
6	L1	0.5322	29.12	AVG	10.03	39.15	46.00	-6.85
7	L1	1.9386	35.61	QP	10.04	45.65	56.00	-10.35
8	L1	1.9386	23.63	AVG	10.04	33.67	46.00	-12.33
9	L1	4.6653	33.73	QP	10.08	43.81	56.00	-12.19
10	L1	4.6653	26.21	AVG	10.08	36.29	46.00	-9.71
11	L1	10.2306	33.48	QP	10.15	43.63	60.00	-16.37
12	L1	10.2306	23.09	AVG	10.15	33.24	50.00	-16.76



Test Report	17070182-FCC-E
Page	16 of 38

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	0.2241	36.86	QP	10.02	46.88	62.67	-15.79
2	Ν	0.2241	28.50	AVG	10.02	38.52	52.67	-14.15
3	N	0.5166	42.07	QP	10.02	52.09	56.00	-3.91
4	N	0.5166	30.18	AVG	10.02	40.20	46.00	-5.80
5	N	0.8637	36.15	QP	10.03	46.18	56.00	-9.82
6	N	0.8637	26.07	AVG	10.03	36.10	46.00	-9.90
7	N	1.9869	34.72	QP	10.04	44.76	56.00	-11.24
8	N	1.9869	25.85	AVG	10.04	35.89	46.00	-10.11
9	N	10.7025	32.84	QP	10.15	42.99	60.00	-17.01
10	N	10.7025	24.77	AVG	10.15	34.92	50.00	-15.08
11	N	19.1070	21.13	QP	10.25	31.38	60.00	-28.62
12	N	19.1070	14.17	AVG	10.25	24.42	50.00	-25.58



Test Report	17070182-FCC-E
Page	17 of 38

### 6.2 Radiated Emissions

Temperature	22 °C
Relative Humidity	59%
Atmospheric Pressure	1017mbar
Test date :	March 17, 2017
Tested By :	Evans He

#### Requirement(s):

Spec	Item	Item Requirement Applicable						
47CFR§15.	a)	<b>\</b>						
109(d)		Frequency range (MHz)	Field Strength (μV/m)					
		30 - 88	100					
		88 – 216	150					
		216 960	200					
	Above 960 500							
Test Setup		Support Units  Turn Table  Social Ground  Test Re	d Plane	-				
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:         <ol> <li>Vertical or horizontal polarization (whichever gave the higher emission level</li> </ol> </li> </ol>							



Test Report	17070182-FCC-E			
Page	18 of 38			

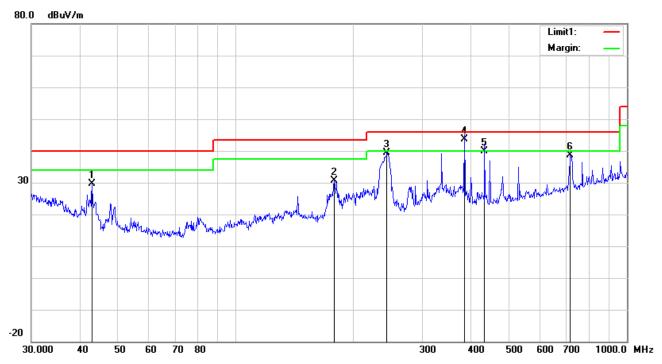
		over a full rotation of the EUT) was chosen.
	b.	The EUT was then rotated to the direction that gave the maximum
		emission.
	C.	Finally, the antenna height was adjusted to the height that gave the maximum
		emission.
	3. The re	solution bandwidth and video bandwidth of test receiver/spectrum analyzer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



Test Report	17070182-FCC-E
Page	19 of 38

Test Mode : USB Mode

#### Below 1GHz



#### Test Data

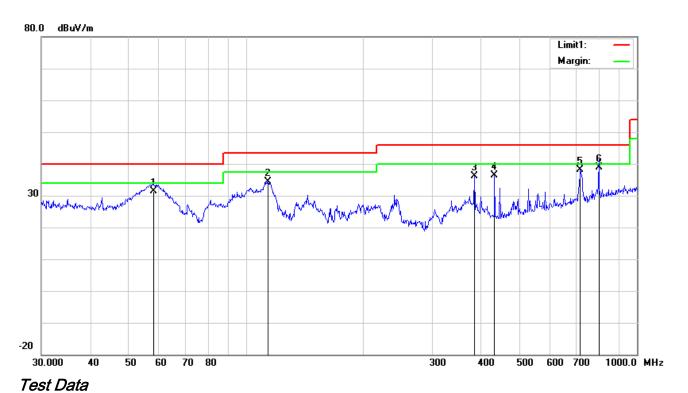
#### Horizontal Polarity Plot @3m

No.	P/L	Frequency	Readin g	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	Η	42.8998	39.13	peak	11.99	22.29	0.77	29.60	40.00	-10.40	300	259
2	Н	178.1327	40.49	peak	11.15	22.25	1.36	30.75	43.50	-12.75	200	157
3	Н	243.3772	48.42	peak	11.49	22.30	1.68	39.29	46.00	-6.71	300	346
4	Н	383.9318	48.37	QP	15.36	22.05	2.02	43.70	46.00	-2.30	100	34
5	Н	432.5457	43.30	QP	16.35	21.94	2.09	39.80	46.00	-6.20	100	223
6	Н	716.6820	36.96	peak	20.40	21.32	2.65	38.69	46.00	-7.31	200	145



Test Report	17070182-FCC-E
Page	20 of 38

#### Below 1GHz



# Vertical Polarity Plot @3m

No.	P/L	Frequency	Readin g	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	58.2030	45.64	QP	7.50	22.40	0.76	31.50	40.00	-8.50	100	143
2	V	113.7143	42.85	peak	12.80	22.35	1.17	34.47	43.50	-9.03	200	67
3	V	383.9318	40.71	peak	15.36	22.05	2.02	36.04	46.00	-9.96	100	288
4	V	432.5457	39.80	peak	16.35	21.94	2.09	36.30	46.00	-9.70	100	23
5	V	716.6820	36.31	peak	20.40	21.32	2.65	38.04	46.00	-7.96	200	306
6	V	798.9797	35.70	QP	21.39	21.15	2.96	38.90	46.00	-7.10	100	176



Test Report	17070182-FCC-E
Page	21 of 38

#### Above 1GHz

Frequency (MHz)	Amplitude (dBµV/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV)
1365.47	51.33	55	100	V	-21.26	74	-22.67	PK
1900.23	53.21	197	100	V	-20.57	74	-20.79	PK
2216.85	53.77	224	200	V	-19.86	74	-20.23	PK
1418.69	51.83	318	200	Н	-21.11	74	-22.17	PK
2488.71	54.05	155	100	Н	-19.45	74	-19.95	PK
1893.56	53.14	286	200	Н	-20.46	74	-20.86	PK

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

Note 2: The frequency that above 3GHz is mainly from the environment noise.

Note 3: The AV measurement performed, more than 20dB below limit so AV test data was not presented.



Test Report	17070182-FCC-E
Page	22 of 38

### Annex A. TEST INSTRUMENT

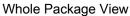
Instrument	Model	Serial#	Cal Date	Cal Due	In use
AC Line Conducted Emis	ssions				
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	>
Line Impedance Stabilization Network	LI-125A	191106	09/24/2016	09/23/2017	<b>&gt;</b>
Line Impedance Stabilization Network	LI-125A	191107	09/24/2016	09/23/2017	<b>(</b>
LISN	ISN T800	34373	09/24/2016	09/23/2017	<
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	<
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<b>&gt;</b>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<b>\</b>
Double Ridge Horn Antenna	AH-118	71259	09/23/2016	09/22/2017	<b>\</b>



Test Report	17070182-FCC-E
Page	23 of 38

### Annex B. EUT And Test Setup Photographs

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





Adapter - Front View





Test Report	17070182-FCC-E
Page	24 of 38

**EUT - Front View** 



**EUT - Rear View** 



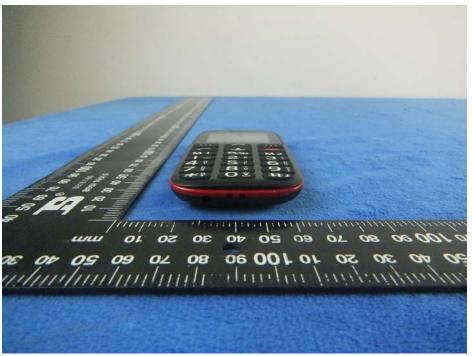


Test Report	17070182-FCC-E
Page	25 of 38

EUT - Top View



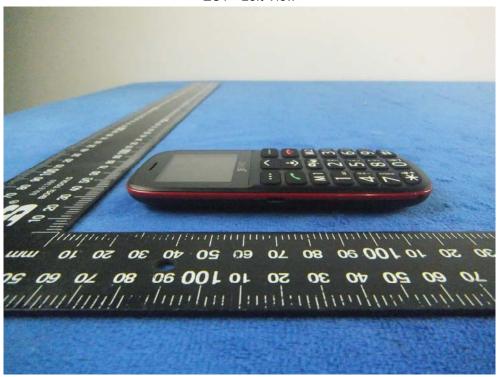
**EUT - Bottom View** 





Test Report	17070182-FCC-E
Page	26 of 38

EUT - Left View



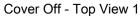
EUT - Right View





Test Report	17070182-FCC-E
Page	27 of 38

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





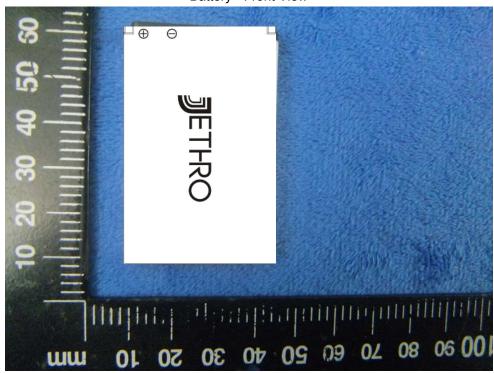
Cover Off - Top View 2





Test Report	17070182-FCC-E
Page	28 of 38

Battery - Front View



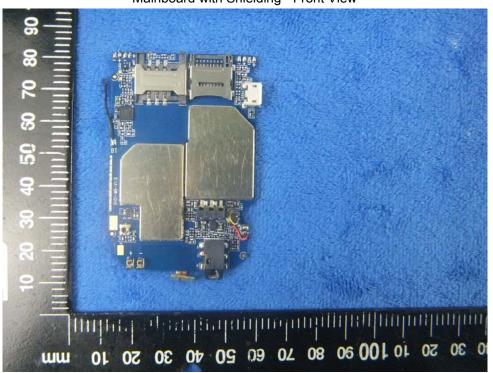
Battery - Rear View



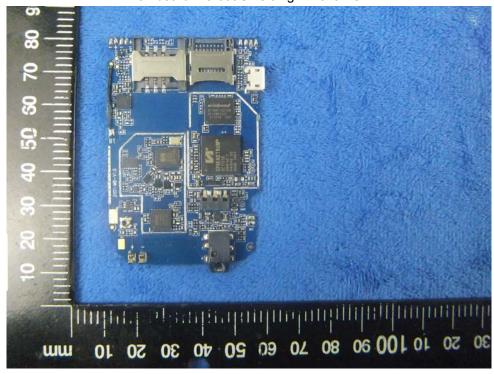


Test Report	17070182-FCC-E
Page	29 of 38

Mainboard with Shielding - Front View



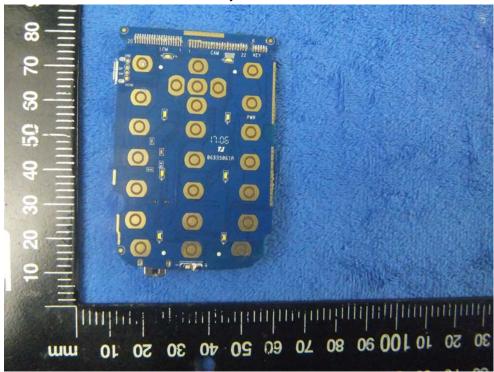
Mainboard without Shielding - Front View





Test Report	17070182-FCC-E
Page	30 of 38

Remove the Key Board - Front View



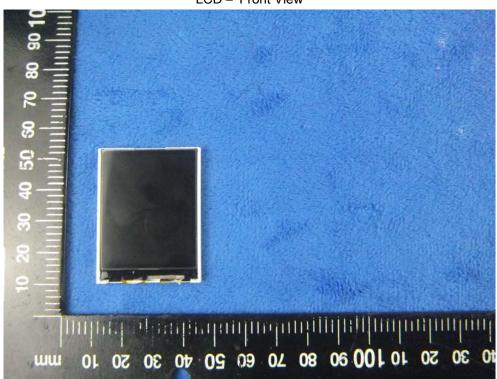
Remove the Key Board - Rear View



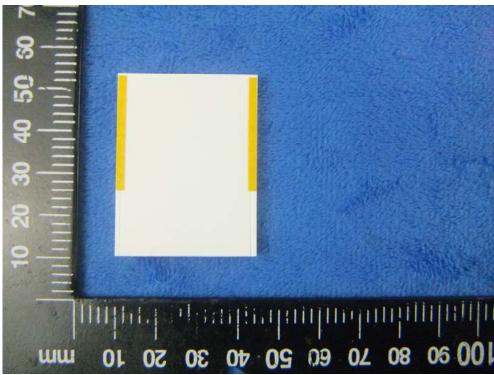


Test Report	17070182-FCC-E
Page	31 of 38

LCD - Front View



LCD - Rear View





Test Report	17070182-FCC-E
Page	32 of 38

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



**BT-FDD Antenna View** 





Test Report	17070182-FCC-E
Page	33 of 38

Radiated Emissions Test Setup Above 1GHz

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

Radiated Emissions Test Setup Below 1GHz

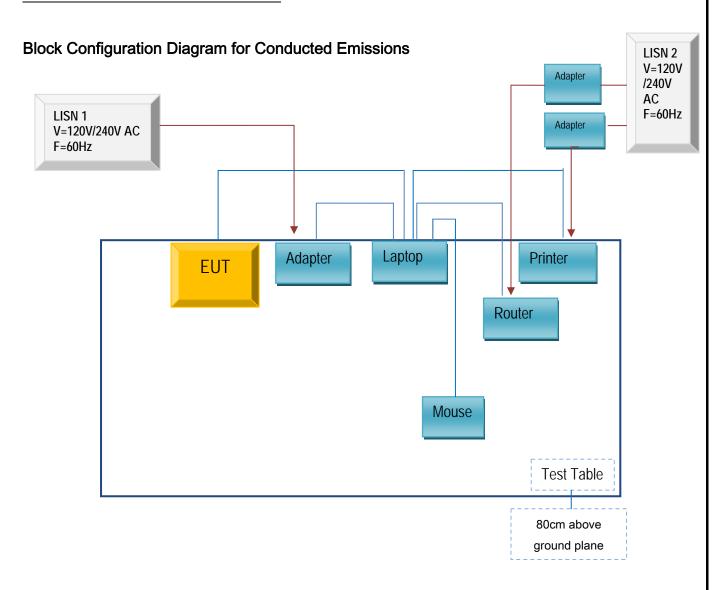




Test Report	17070182-FCC-E
Page	34 of 38

### Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

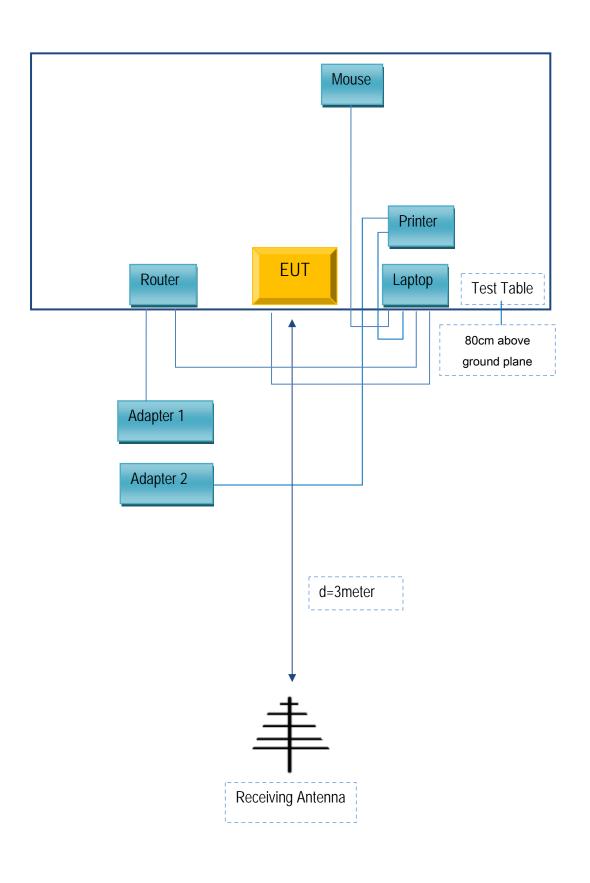
#### Annex C.ii. TEST SET UP BLOCK





Test Report	17070182-FCC-E
Page	35 of 38

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





Test Report	17070182-FCC-E
Page	36 of 38

#### 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

#### 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	17070182-FCC-E
Page	37 of 38

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

Please see the attachment



Test Report	17070182-FCC-E
Page	38 of 38

### Annex E. DECLARATION OF SIMILARITY

N/A