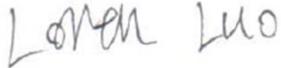
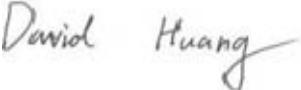


EMC TEST REPORT



Report No.: 16071095-FCC-E

Supersede Report No: N/A

Applicant	Jethro Trading LTD.		
Product Name	Jethro 3G Senior Flip Cell Phone		
Model No.	SC330		
Serial No.	N/A		
Test Standard	FCC Part 15 Subpart B Class B:2015, ANSI C63.4: 2014		
Test Date	November 01 to 15, 2016		
Issue Date	November 16, 2016		
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		
Equipment complied with the specification <input checked="" type="checkbox"/>			
Equipment did not comply with the specification <input type="checkbox"/>			
			
Loren Luo 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

Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn

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	16071095-FCC-E
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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16071095-FCC-E	NONE	Original	November 16, 2016

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 exhibition procurement center the baoyuan road baoan district

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park 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	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT: Jethro 3G Senior Flip Cell Phone

Main Model: SC330

Serial Model: N/A

GSM850: 0.5dBi

PCS1900: 1.0dBi

Antenna Gain: UMTS-FDD Band V:1.2dBi

UMTS-FDD Band II: 1.2dBi

Bluetooth: 0.5dBi

Antenna Type: GSM/PCS/UMTS-FDD : PIFA antenna
 BT : Monopole antenna

Port: Power Port, Earphone Port, USB Port

Adapter:

Model: HJ-050050-US

Input: AC100-240V~50/60Hz,0.15A

Output: DC 5.0V—500mA

Charging Base:

Model:SC330

Input: DC5.0V,500mA

Output:DC5.0V,500mA

Battery:

Model: SC330

Spec: 3.7V 800mAh/2.96Wh

Charging limited voltage:4.2V

Input Power:

Equipment Category : JBP

GSM / GPRS: GMSK

Type of Modulation: EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK

Bluetooth: GFSK, π /4DQPSK, 8DPSK

Test Report	16071095-FCC-E
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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 II TX: 1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

Bluetooth: 2402-2480 MHz

GSM 850: 124CH

PCS1900: 299CH

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

UMTS-FDD Band II: 277CH

Bluetooth: 79CH

Trade Name : Jethro

FCC ID: 2AAWJSC330

Date EUT received: October 31, 2016

Test Date(s): November 01 to 15, 2016

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

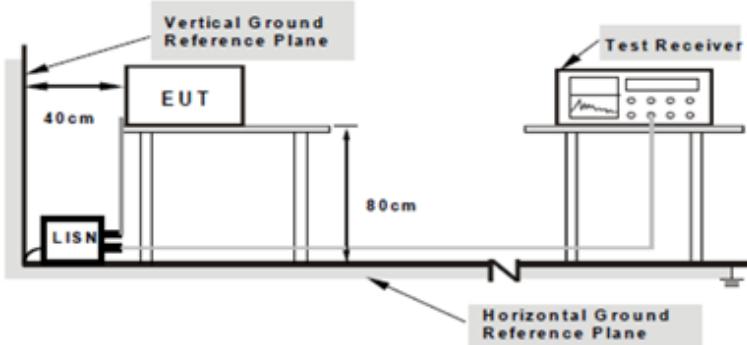
Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	25°C
Relative Humidity	54%
Atmospheric Pressure	1002mbar
Test date :	November 02, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	<p>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.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency ranges (MHz)	Limit (dB μ V)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	<input checked="" type="checkbox"/>
Frequency ranges (MHz)	Limit (dB μ V)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															
Test Setup	 <p>The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a table. A LISN (Line Impedance Stabilization Network) is connected between the EUT and the power source. A Test Receiver is connected to the LISN. The setup is positioned on a horizontal ground reference plane. The distance between the LISN and the EUT is 40 cm, and the distance between the LISN and the Test Receiver is 80 cm. A vertical ground reference plane is also indicated.</p> <p>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.</p>																
Procedure	<ol style="list-style-type: none"> 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. 																

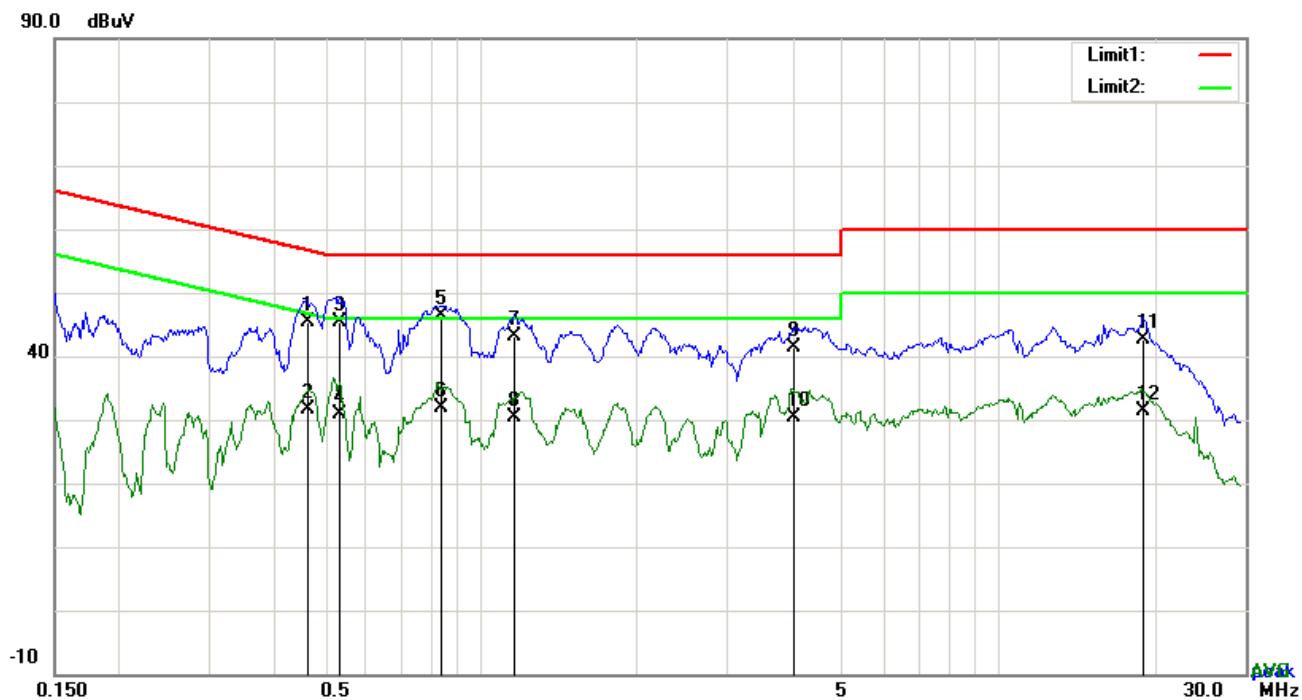
	<ol style="list-style-type: none"> 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 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	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode: **USB Mode**

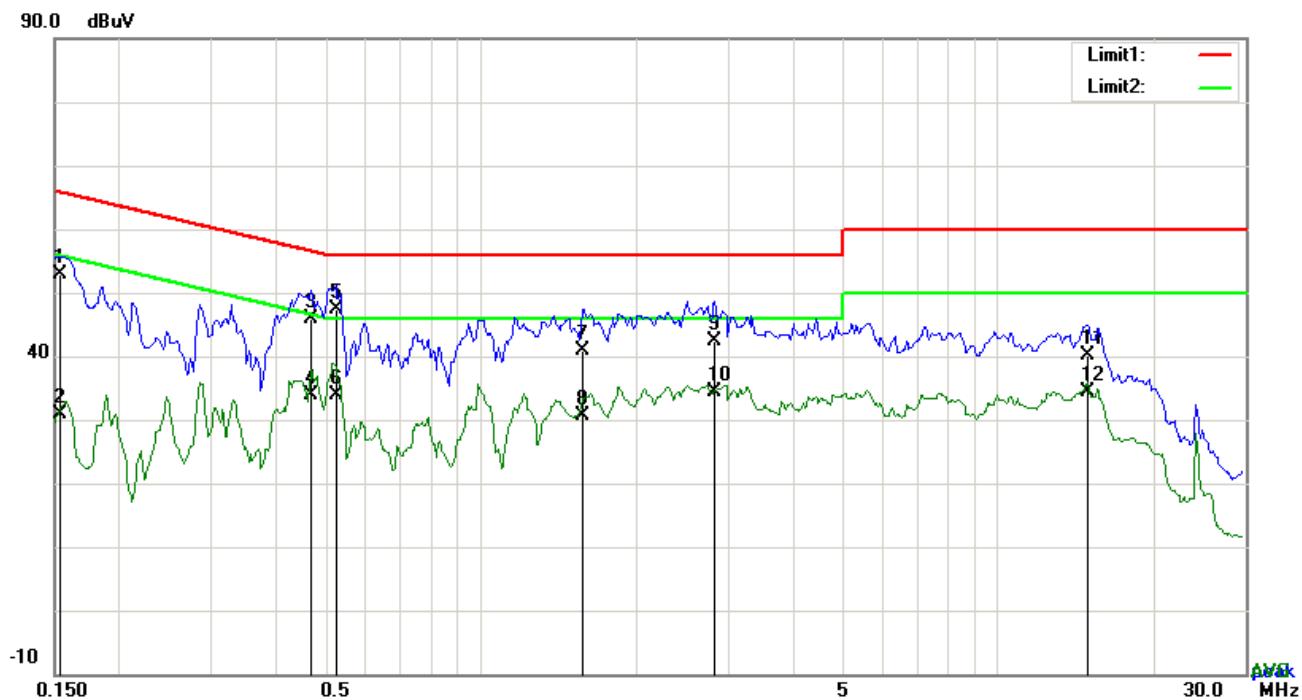


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.4620	35.41	QP	10.03	45.44	56.66	-11.22
2	L1	0.4620	21.69	AVG	10.03	31.72	46.66	-14.94
3	L1	0.5322	35.34	QP	10.03	45.37	56.00	-10.63
4	L1	0.5322	20.74	AVG	10.03	30.77	46.00	-15.23
5	L1	0.8364	36.41	QP	10.03	46.44	56.00	-9.56
6	L1	0.8364	21.90	AVG	10.03	31.93	46.00	-14.07
7	L1	1.1595	33.17	QP	10.03	43.20	56.00	-12.80
8	L1	1.1595	20.46	AVG	10.03	30.49	46.00	-15.51
9	L1	4.0257	31.20	QP	10.07	41.27	56.00	-14.73
10	L1	4.0257	20.23	AVG	10.07	30.30	46.00	-15.70
11	L1	19.0446	32.46	QP	10.29	42.75	60.00	-17.25
12	L1	19.0446	21.10	AVG	10.29	31.39	50.00	-18.61

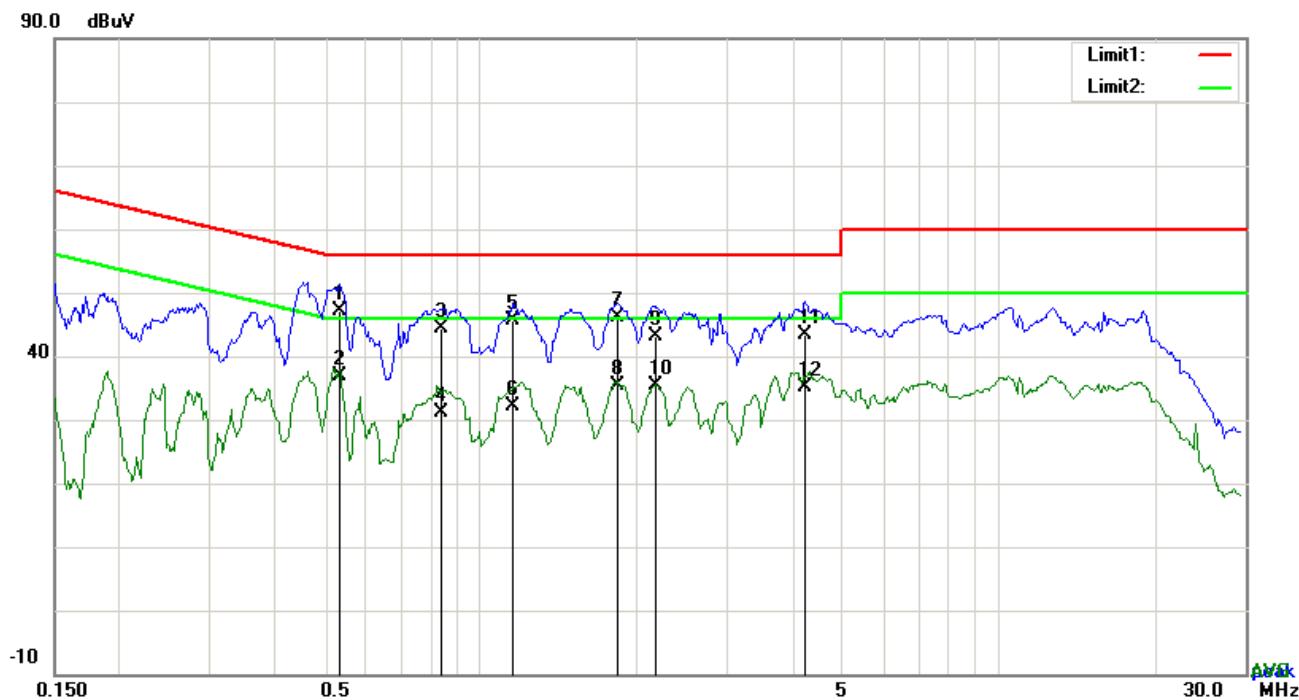
Test Mode: **USB Mode**



Test Data

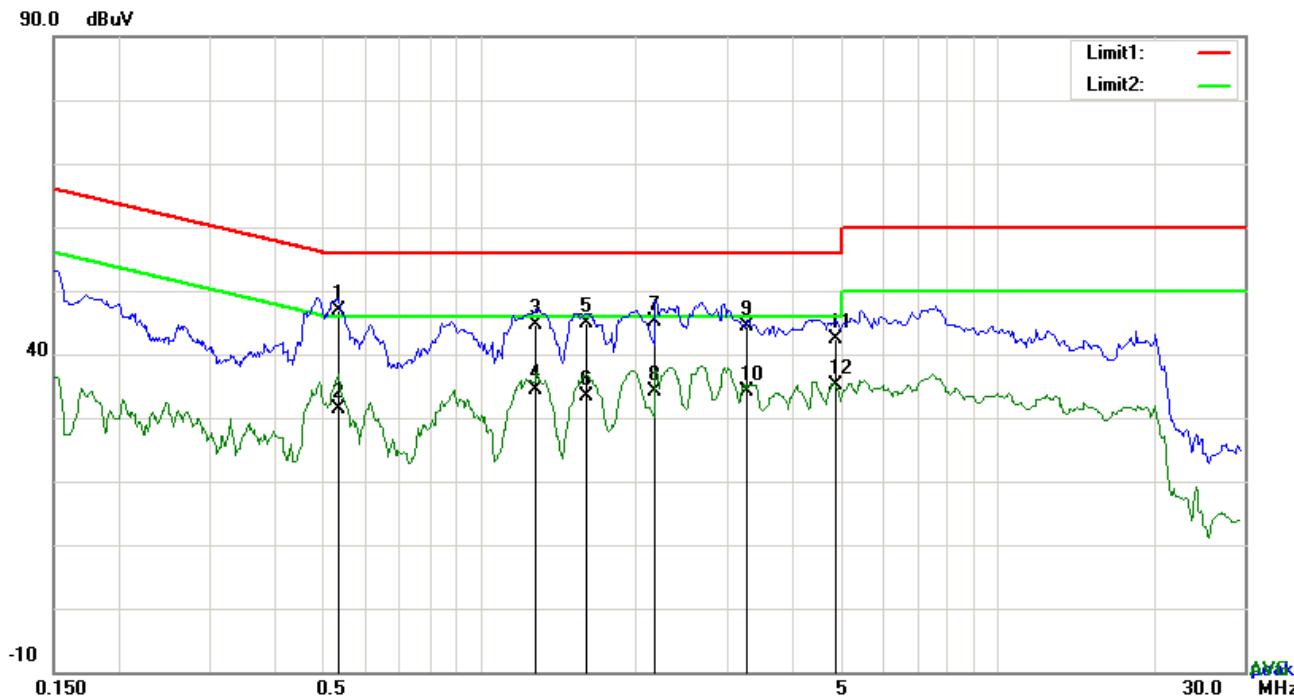
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1539	42.83	QP	10.02	52.85	65.79	-12.94
2	N	0.1539	20.85	AVG	10.02	30.87	55.79	-24.92
3	N	0.4698	35.79	QP	10.02	45.81	56.52	-10.71
4	N	0.4698	23.96	AVG	10.02	33.98	46.52	-12.54
5	N	0.5244	37.39	QP	10.02	47.41	56.00	-8.59
6	N	0.5244	23.91	AVG	10.02	33.93	46.00	-12.07
7	N	1.5735	30.86	QP	10.04	40.90	56.00	-15.10
8	N	1.5735	20.63	AVG	10.04	30.67	46.00	-15.33
9	N	2.8240	32.41	QP	10.05	42.46	56.00	-13.54
10	N	2.8240	24.43	AVG	10.05	34.48	46.00	-11.52
11	N	14.8599	29.95	QP	10.20	40.15	60.00	-19.85
12	N	14.8599	24.10	AVG	10.20	34.30	50.00	-15.70

Test Mode: USB Mode

Test Data
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.5322	37.08	QP	10.03	47.11	56.00	-8.89
2	L1	0.5322	26.79	AVG	10.03	36.82	46.00	-9.18
3	L1	0.8364	34.23	QP	10.03	44.26	56.00	-11.74
4	L1	0.8364	21.02	AVG	10.03	31.05	46.00	-14.95
5	L1	1.1562	35.65	QP	10.03	45.68	56.00	-10.32
6	L1	1.1562	22.07	AVG	10.03	32.10	46.00	-13.90
7	L1	1.8348	35.99	QP	10.04	46.03	56.00	-9.97
8	L1	1.8348	25.31	AVG	10.04	35.35	46.00	-10.65
9	L1	2.1702	33.16	QP	10.04	43.20	56.00	-12.80
10	L1	2.1702	25.24	AVG	10.04	35.28	46.00	-10.72
11	L1	4.2246	33.20	QP	10.07	43.27	56.00	-12.73
12	L1	4.2246	25.18	AVG	10.07	35.25	46.00	-10.75

Test Mode: USB Mode



Test Data

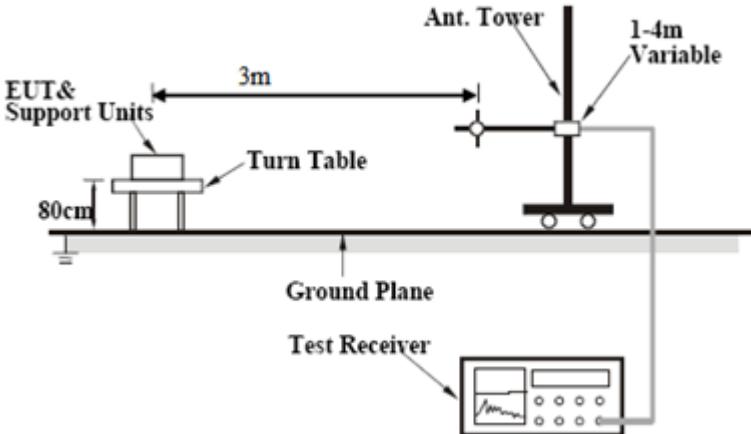
Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.5322	36.83	QP	10.02	46.85	56.00	-9.15
2	N	0.5322	21.40	AVG	10.02	31.42	46.00	-14.58
3	N	1.2824	34.56	QP	10.03	44.59	56.00	-11.41
4	N	1.2824	24.28	AVG	10.03	34.31	46.00	-11.69
5	N	1.6086	34.89	QP	10.04	44.93	56.00	-11.07
6	N	1.6086	23.39	AVG	10.04	33.43	46.00	-12.57
7	N	2.1897	35.09	QP	10.04	45.13	56.00	-10.87
8	N	2.1897	24.02	AVG	10.04	34.06	46.00	-11.94
9	N	3.2886	34.21	QP	10.05	44.26	56.00	-11.74
10	N	3.2886	24.17	AVG	10.05	34.22	46.00	-11.78
11	N	4.8915	32.43	QP	10.07	42.50	56.00	-13.50
12	N	4.8915	25.04	AVG	10.07	35.11	46.00	-10.89

6.2 Radiated Emissions

Temperature	23°C
Relative Humidity	56%
Atmospheric Pressure	1014mbar
Test date :	November 14, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15. 109(d)	a)	<p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (μV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 – 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength (μ V/m)	30 – 88	100	88 – 216	150	216 – 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength (μ V/m)												
30 – 88	100												
88 – 216	150												
216 – 960	200												
Above 960	500												
Test Setup	 <p>The diagram illustrates the test setup for radiated emissions. A 'Turn Table' is positioned on a 'Ground Plane'. A 'EUT & Support Units' is mounted on the turn table. A 'Ant. Tower' is connected to the EUT and is height-adjustable, with a range of '1-4m Variable' indicated. A 'Test Receiver' is connected to the Ant. Tower to measure the emissions. A vertical dimension of '80cm' is shown between the EUT and the ground plane.</p>												
Procedure	<ol style="list-style-type: none"> 1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum 												

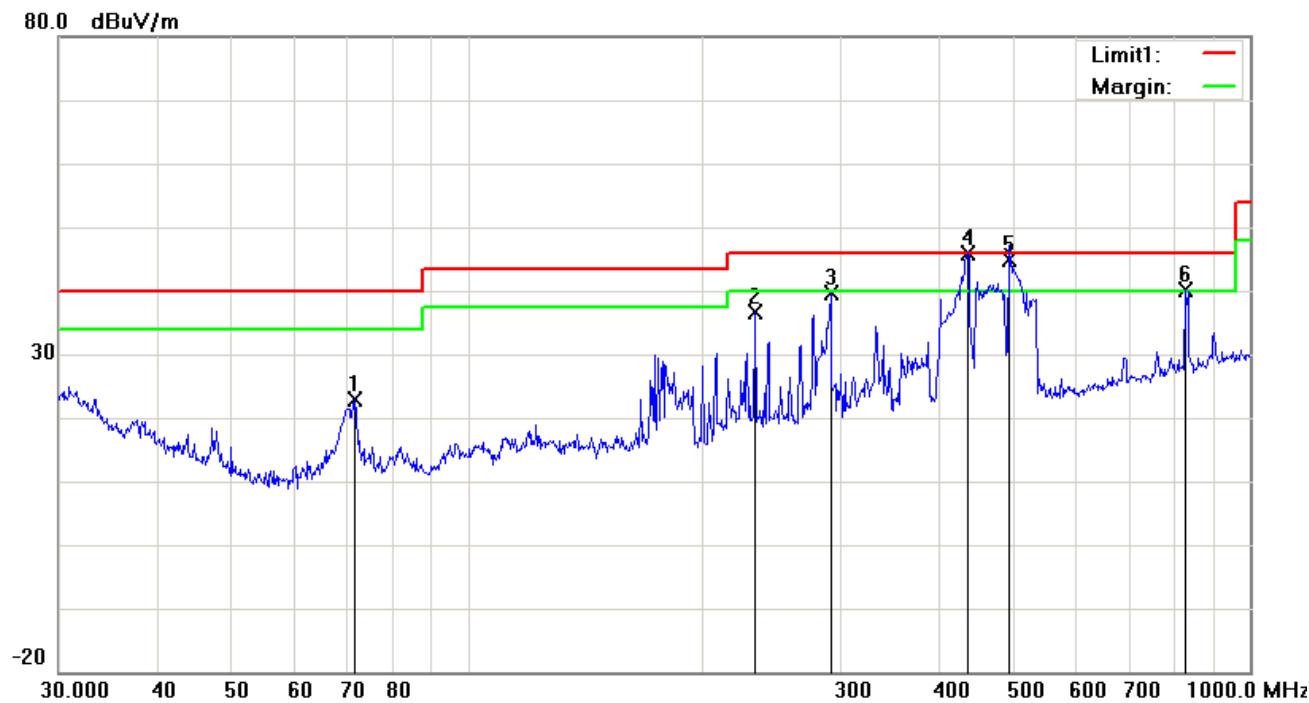
	<p>emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.</p> <p>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.</p> <p>The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth with Peak detection for Average Measurement as below at frequency above 1GHz.</p> <ul style="list-style-type: none"> ■ 1 kHz (Duty cycle < 98%) <input type="checkbox"/> 10 Hz (Duty cycle > 98%) <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode:	USB Mode
------------	----------

Below 1GHz

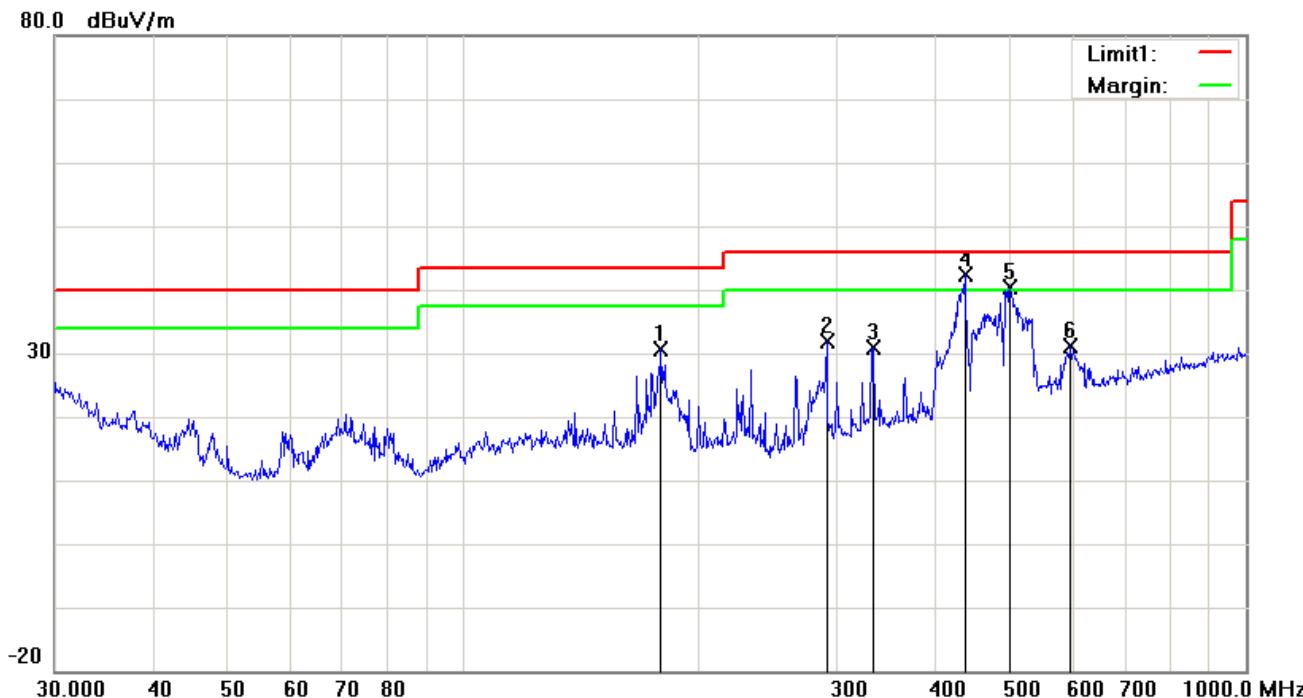


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	H	71.8320	36.60	peak	-13.66	22.94	40.00	-17.06	100	142
2	H	233.3487	45.69	peak	-9.04	36.65	46.00	-9.35	100	51
3	H	291.0360	46.94	QP	-7.31	39.63	46.00	-6.37	100	150
4	H	435.5898	49.43	QP	-3.43	46.00	46.00	0.00	100	139
5	H	492.4685	46.90	QP	-1.90	45.00	46.00	-1.00	100	84
6	H	827.4934	36.48	QP	3.53	40.01	46.00	-5.99	100	72

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/ m)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree
1	V	178.7584	40.54	peak	-9.79	30.75	43.50	-12.75	100	34
2	V	291.0360	39.18	peak	-7.31	31.87	46.00	-14.13	100	105
3	V	333.6867	36.86	peak	-5.93	30.93	46.00	-15.07	100	92
4	V	437.1199	45.69	QP	-3.40	42.29	46.00	-3.71	100	134
5	V	499.4247	41.99	QP	-1.70	40.29	46.00	-5.71	100	167
6	V	597.2234	31.12	peak	-0.04	31.08	46.00	-14.92	100	85

Above 1GHz

Frequency (MHz)	Amplitude (dB μ V/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Limit (dB μ V/m)	Margin (dB)	Detector (PK/AV)
1188.52	51.36	74	155	V	-22.36	74	-22.64	PK
1634.18	53.47	108	136	V	-23.81	74	-20.53	PK
2465.44	52.85	82	177	V	-21.66	74	-21.15	PK
1766.37	53.19	67	208	H	-20.73	74	-20.81	PK
2106.82	51.73	131	193	H	-21.92	74	-22.27	PK
1967.95	54.11	124	167	H	-22.75	74	-19.89	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.

Annex A. TEST INSTRUMENT

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

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





EUT - Bottom View

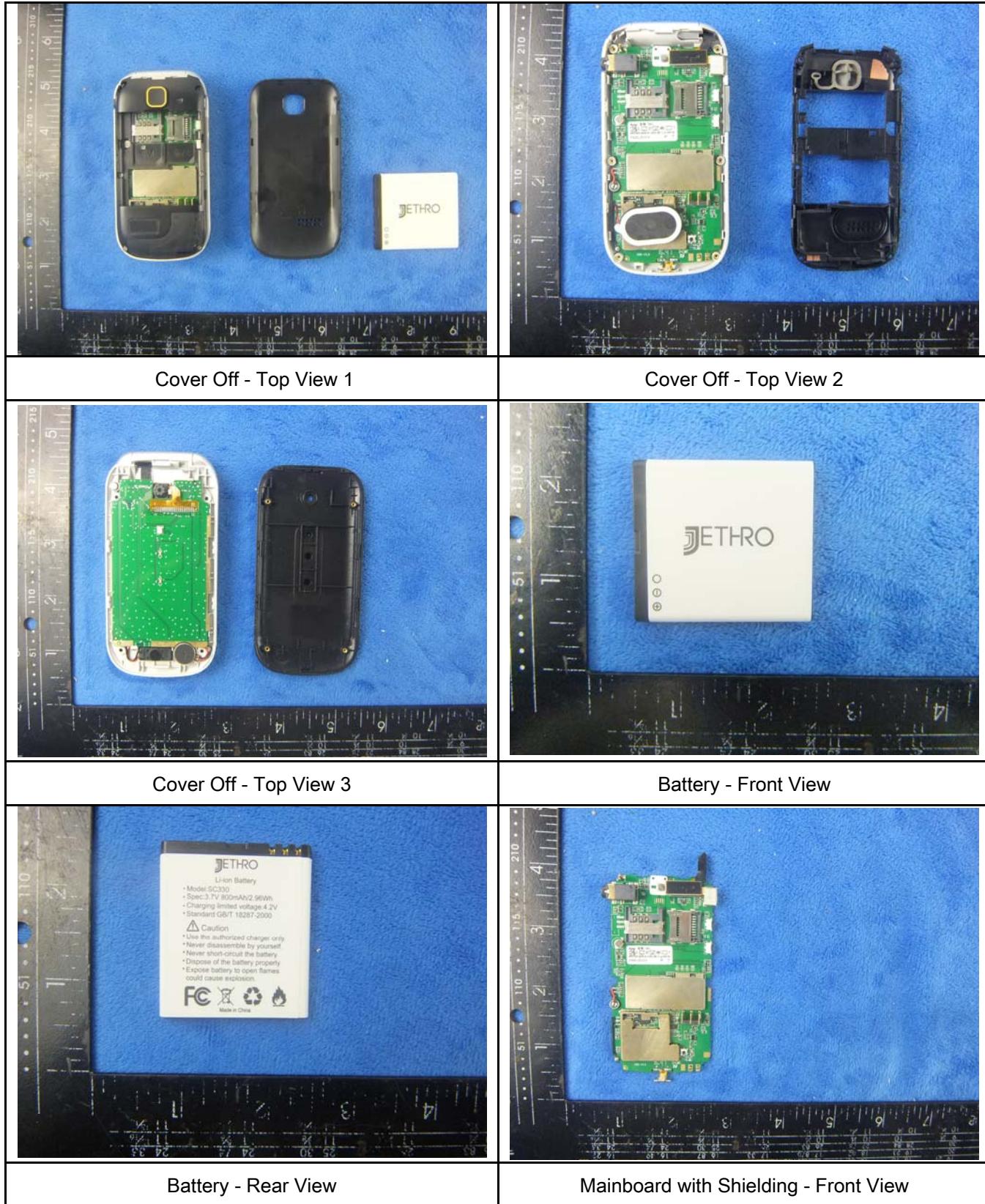


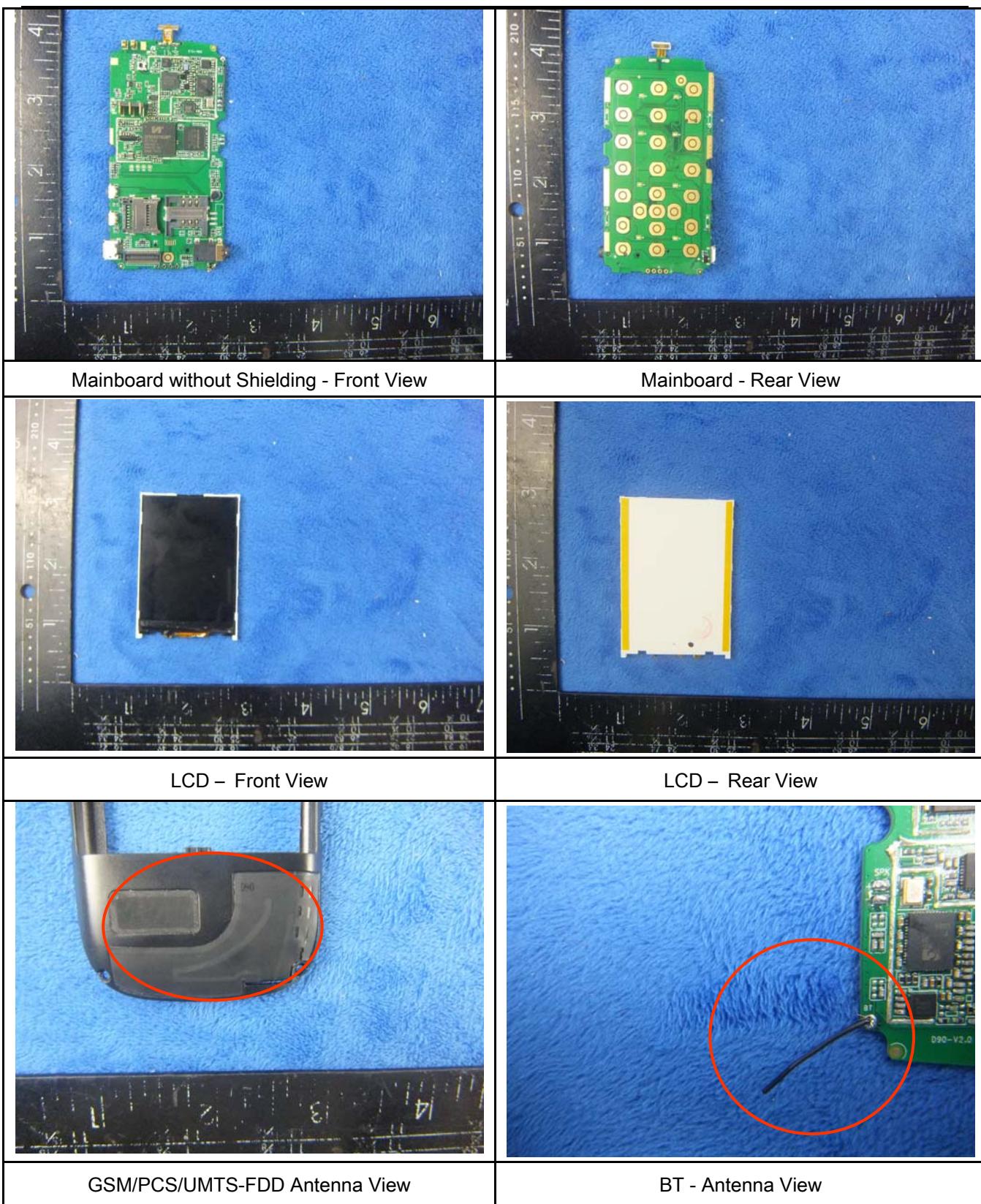
EUT - Left View



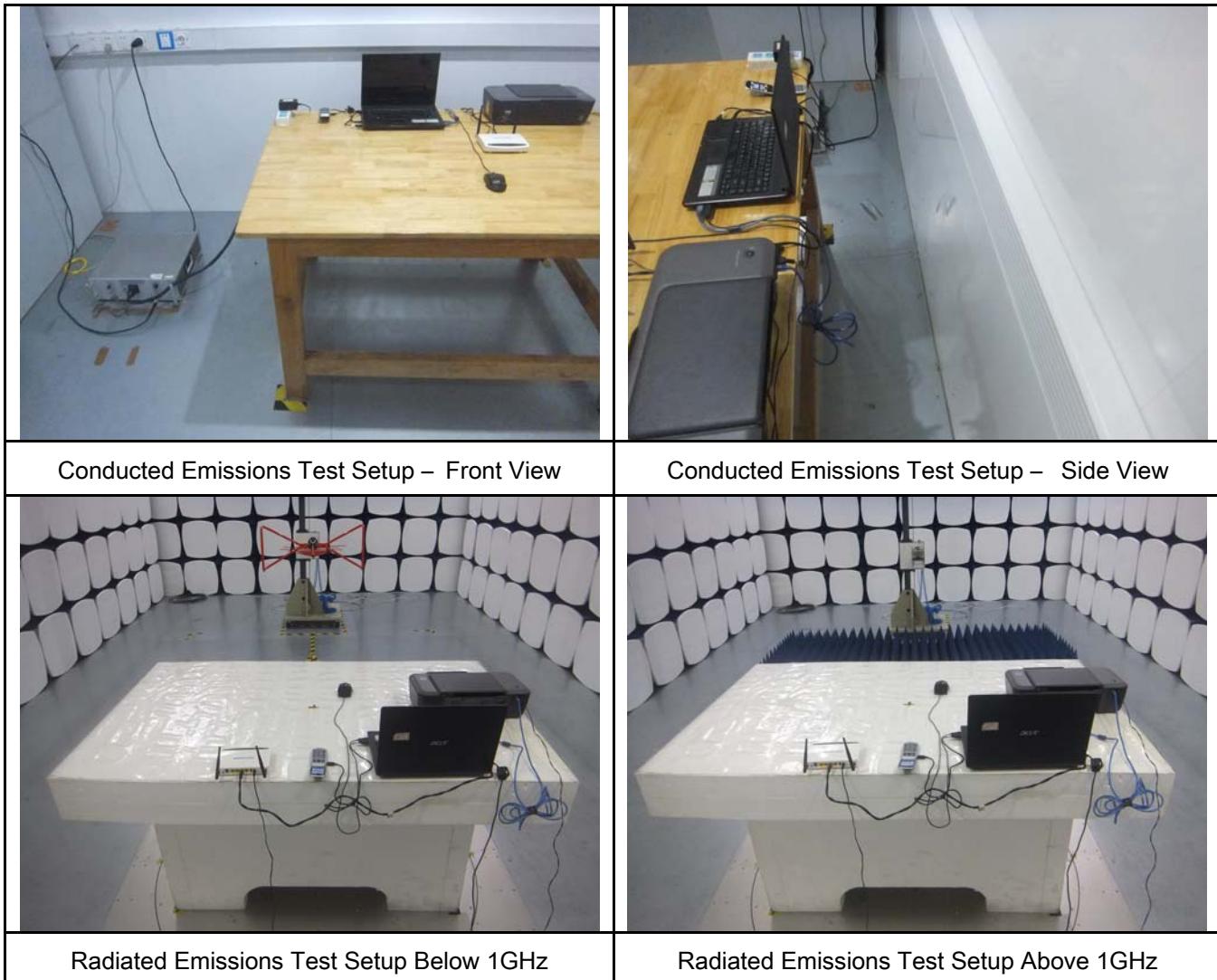
EUT - Right View

Annex B.ii. Photograph: EUT Internal Photo





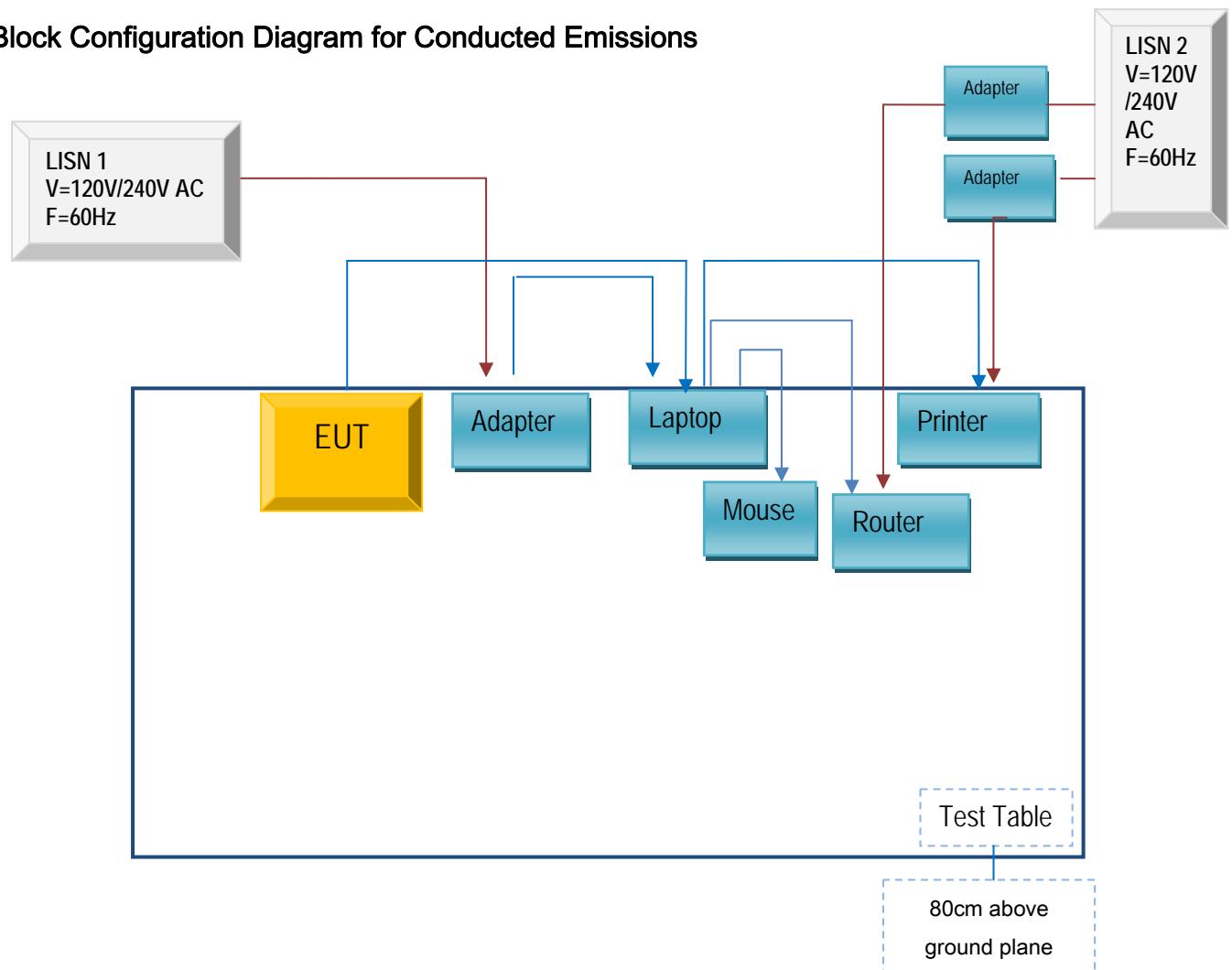
Annex B.iii. Photograph: Test Setup Photo



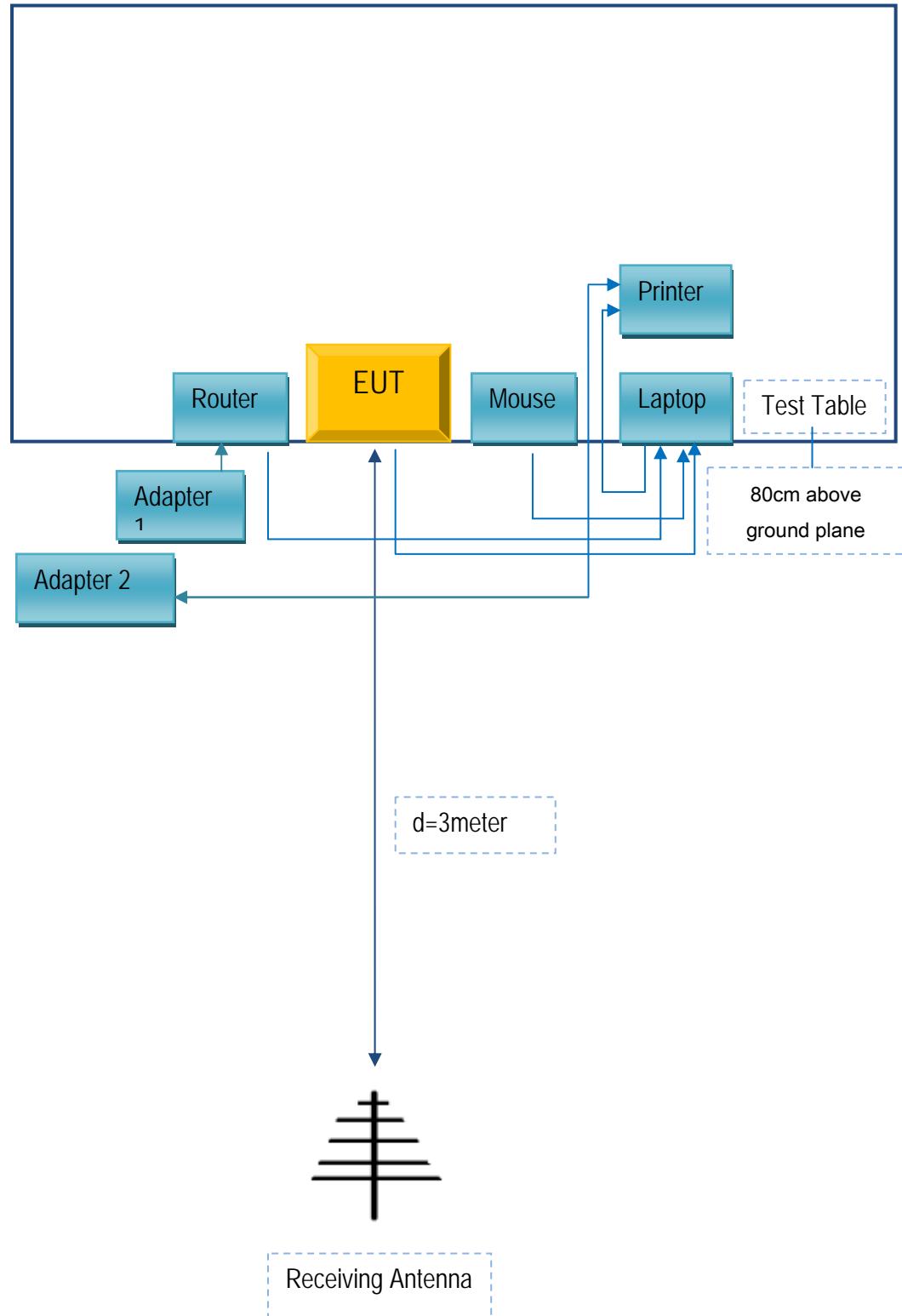
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Conducted Emissions



Block Configuration Diagram for Radiated Emissions



Annex C. ii. 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
SMT TELECOMM HK LIMITED	Adapter	PC488	D2156273
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

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

Please see the attachment

Annex E. DECLARATION OF SIMILARITY

N/A