

EMC TEST REPORT



Report No.: 17070028-FCC-E

Supersede Report No: N/A

Applicant	MOBIWIRE MOBILES (NINGBO) CO.,LTD	
Product Name	3G feature phone	
Model No.	Öwn F1035	
Serial No.	N/A	
Test Standard	FCC Part 15 Subpart B Class B:2016, ANSI C63.4: 2014	
Test Date	January 12 to February 15, 2017	
Issue Date	February 16, 2017	
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"/>
Evans He	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

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

Test Report	17070028-FCC-E
Page	3 of 36

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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	8
6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
6.1 AC POWER LINE CONDUCTED EMISSIONS.....	9
6.2 RADIATED EMISSIONS.....	15
ANNEX A. TEST INSTRUMENT.....	20
ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS.....	21
ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT.....	32
ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	35
ANNEX E. DECLARATION OF SIMILARITY	36

1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070028-FCC-E	NONE	Original	February 16, 2017

2. Customer information

Applicant Name	MOBIWIRE MOBILES (NINGBO) CO.,LTD
Applicant Add	No.999,Dacheng East Road,Fenghua City,Zhejiang
Manufacturer	MOBIWIRE MOBILES (NINGBO) CO.,LTD
Manufacturer Add	No.999,Dacheng East Road,Fenghua City,Zhejiang

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 of Radiated Emission	Radiated Emission Program-To Shenzhen v2.0
Test Software of Conducted Emission	EZ-EMC(ver.lcp-03A1)

4. Equipment under Test (EUT) Information

Description of EUT: 3G feature phone

Main Model: **öwn** F1035

Serial Model: N/A

GSM850: -1dBi

PCS1900: -1dBi

Antenna Gain: UMTS-FDD Band V: -1dBi
 UMTS-FDD Band II: -1dBi
 Bluetooth: -1dBi

Antenna Type: GSM:PIFA antenna
 BT: Patch antenna

Adapter:

Model: **öwn** F1035

Input: AC100-240V~50/60Hz,0.2A

Input Power: Output: DC 5.0V,550mA

Battery:

Model: **öwn** F1035

Spec : 3.7V,800mAh,2.96Wh

Maximum chargeable voltage: 4.2V

Equipment Category : JBP

GSM / GPRS: GMSK

Type of Modulation: EGPRS: GMSK,8PSK
 UMTS-FDD: QPSK, 16QAM
 Bluetooth: GFSK, π /4DQPSK, 8DPSK

Test Report	17070028-FCC-E
Page	7 of 36

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

Port: USB Port, Earphone Port

Trade Name : **öun**

FCC ID: 2ADA4F1035D

Date EUT received: January 12, 2017

Test Date(s): January 12 to February 15, 2017

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

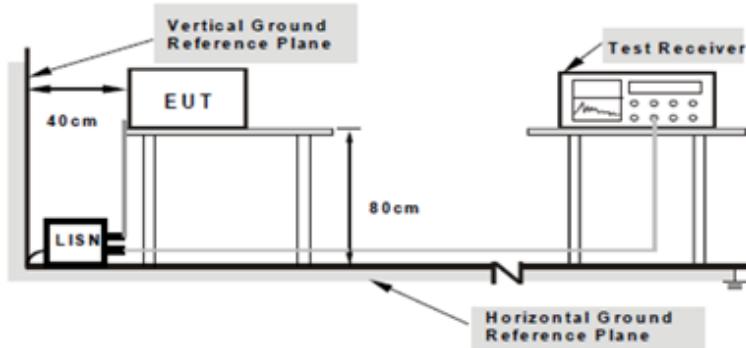
Emissions		
Test Item	Description	Uncertainty
AC Power Line Conducted Emissions and Radiated Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	22°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	January 13, 2017
Tested By :	Evans He

Requirement(s):

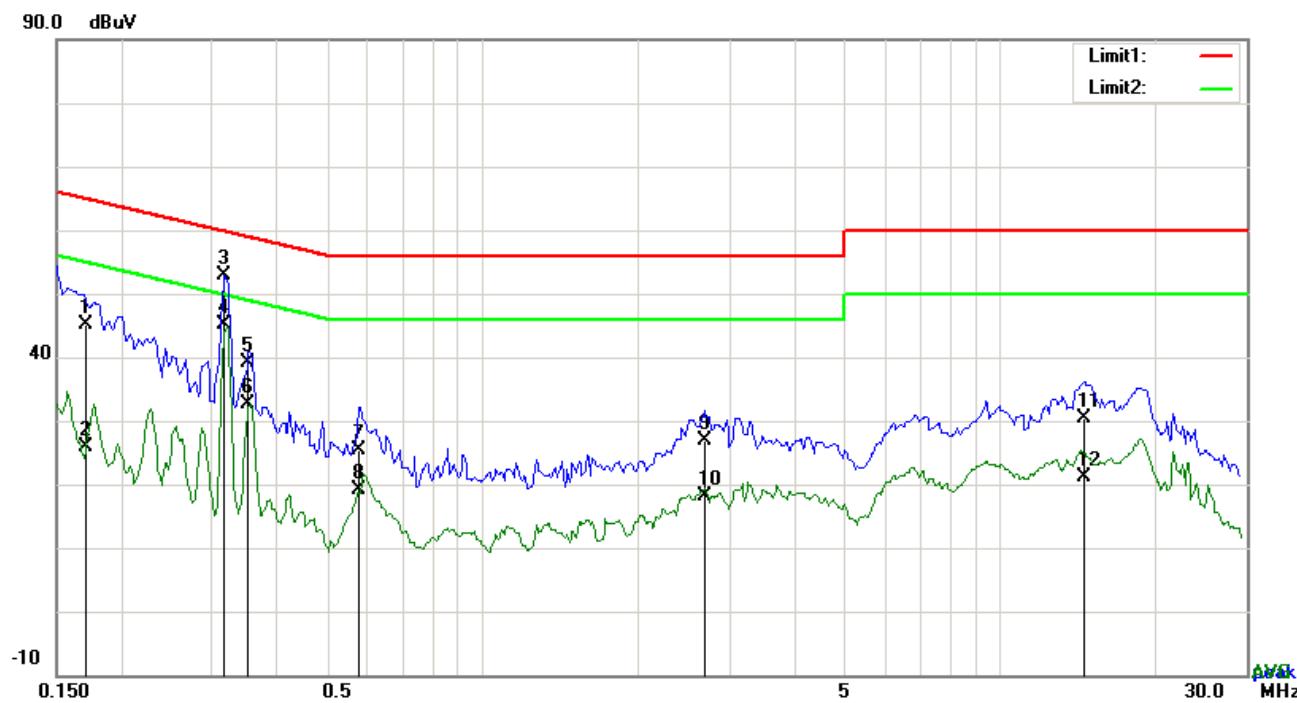
Spec	Item	Requirement	Applicable														
47CFR§15. 107	a)	<p>For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 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 for conducted emissions. 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:</p> <ol style="list-style-type: none"> 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 style="list-style-type: none"> 1. 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. 2. 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

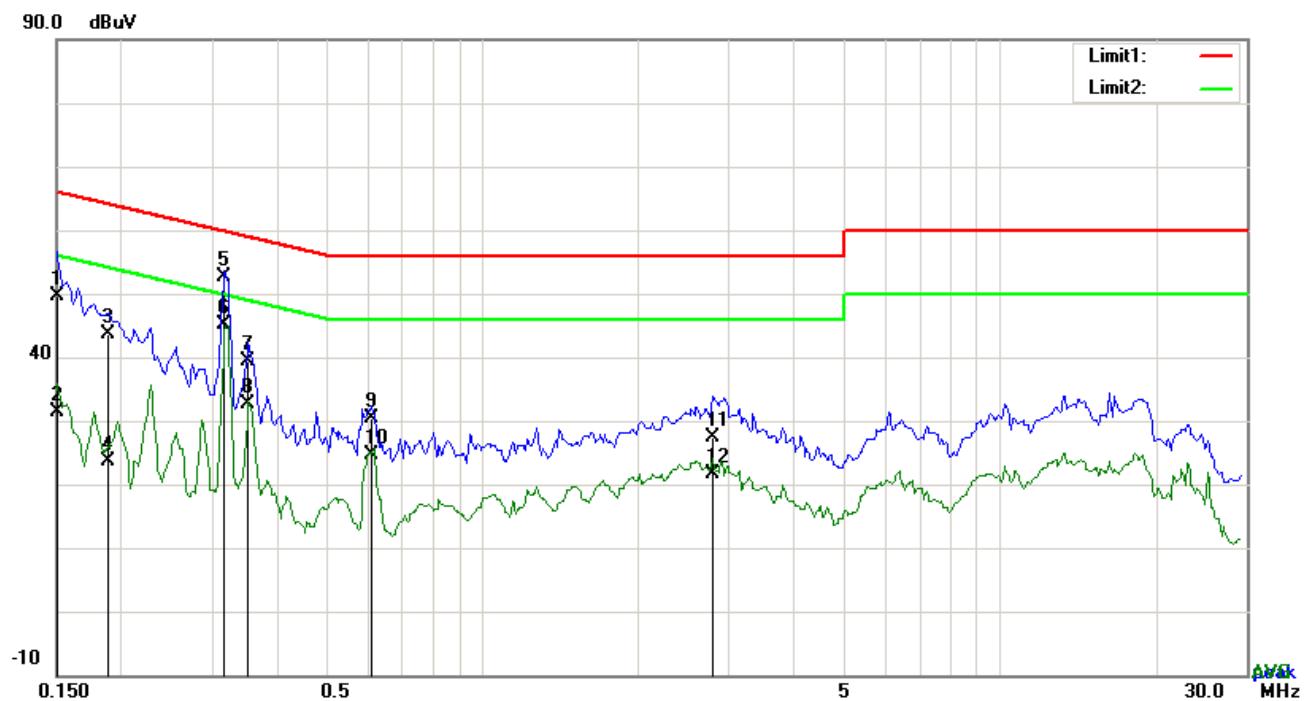
Test Mode : USB Mode



Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.1712	35.08	QP	10.03	45.11	64.90	-19.79
2	L1	0.1712	15.96	AVG	10.03	25.99	54.90	-28.91
3	L1	0.3177	42.73	QP	10.03	52.76	59.77	-7.01
4	L1	0.3177	35.22	AVG	10.03	45.25	49.77	-4.52
5	L1	0.3528	29.22	QP	10.03	39.25	58.90	-19.65
6	L1	0.3528	22.54	AVG	10.03	32.57	48.90	-16.33
7	L1	0.5790	15.35	QP	10.03	25.38	56.00	-30.62
8	L1	0.5790	9.16	AVG	10.03	19.19	46.00	-26.81
9	L1	2.6811	16.77	QP	10.05	26.82	56.00	-29.18
10	L1	2.6811	7.98	AVG	10.05	18.03	46.00	-27.97
11	L1	14.5869	20.07	QP	10.22	30.29	60.00	-29.71
12	L1	14.5869	10.93	AVG	10.22	21.15	50.00	-28.85

Test Mode : **USB Mode**

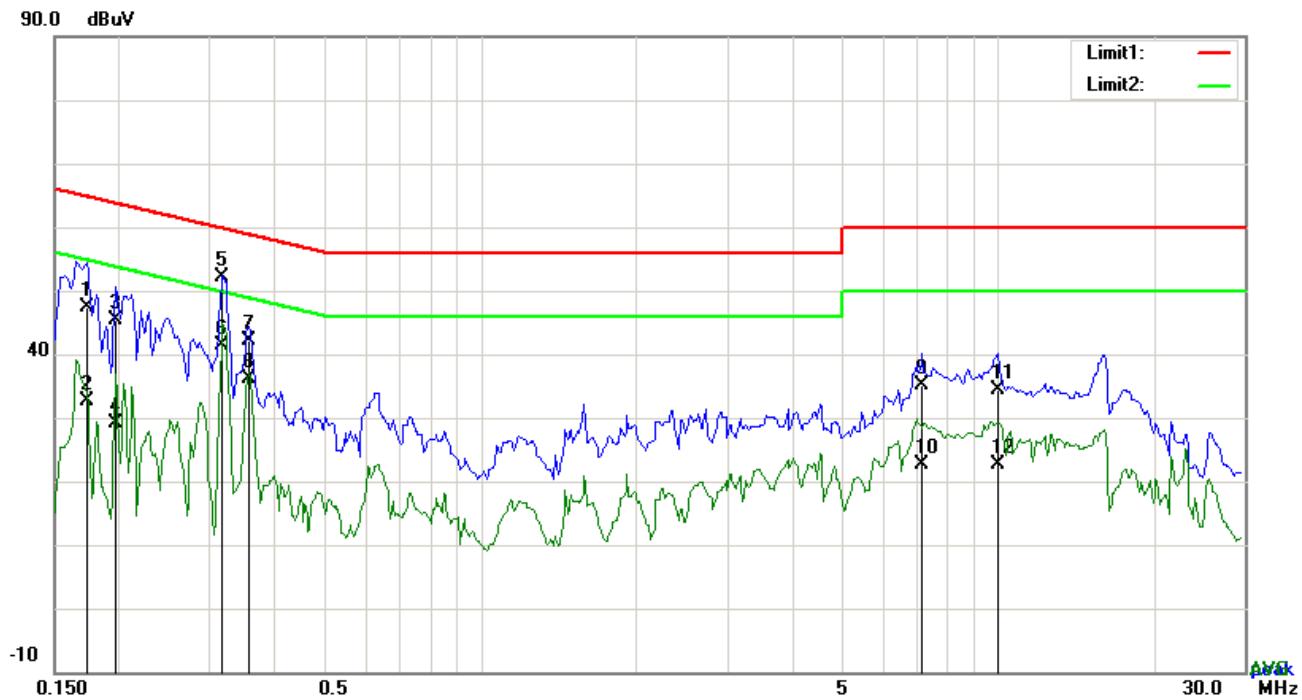


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1500	39.53	QP	10.02	49.55	66.00	-16.45
2	N	0.1500	21.36	AVG	10.02	31.38	56.00	-24.62
3	N	0.1890	33.70	QP	10.02	43.72	64.08	-20.36
4	N	0.1890	13.50	AVG	10.02	23.52	54.08	-30.56
5	N	0.3177	42.62	QP	10.02	52.64	59.77	-7.13
6	N	0.3177	35.23	AVG	10.02	45.25	49.77	-4.52
7	N	0.3528	29.31	QP	10.02	39.33	58.90	-19.57
8	N	0.3528	22.71	AVG	10.02	32.73	48.90	-16.17
9	N	0.6102	20.24	QP	10.02	30.26	56.00	-25.74
10	N	0.6102	14.51	AVG	10.02	24.53	46.00	-21.47
11	N	2.7825	17.23	QP	10.05	27.28	56.00	-28.72
12	N	2.7825	11.69	AVG	10.05	21.74	46.00	-24.26

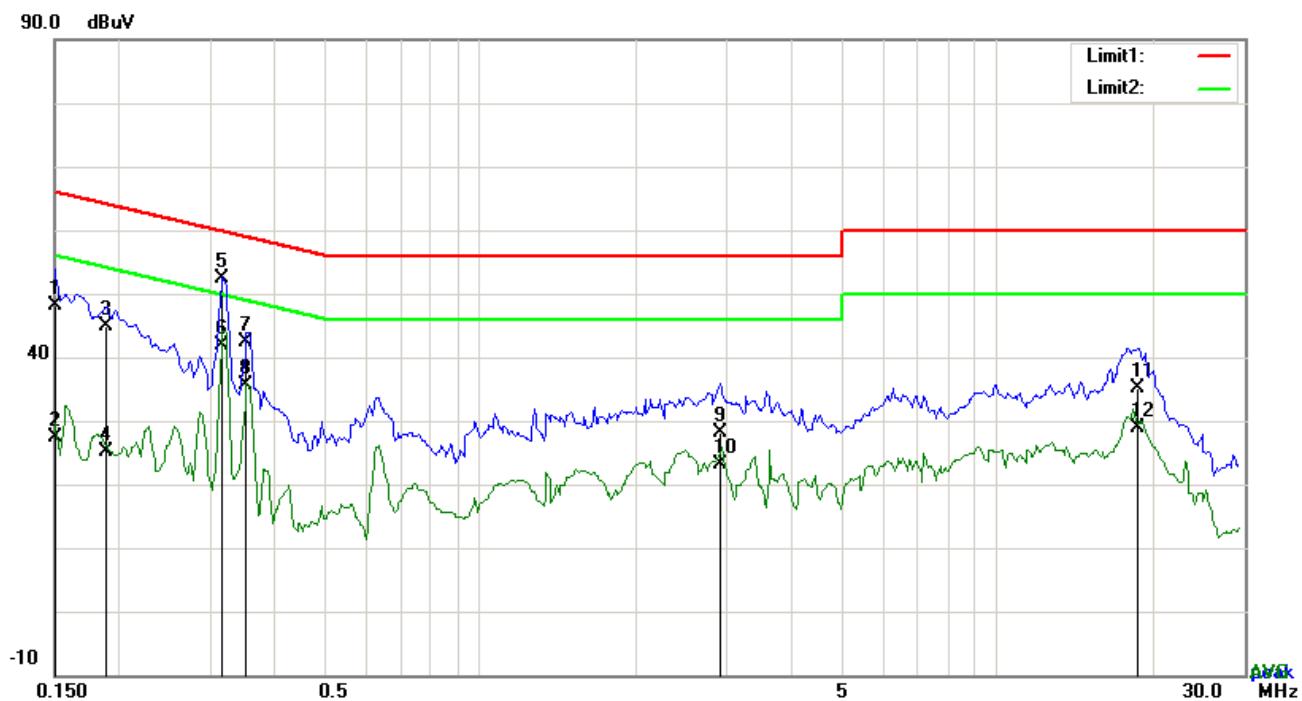
Test Mode : **USB Mode**



Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	L1	0.1734	37.46	QP	10.03	47.49	64.80	-17.31
2	L1	0.1734	22.69	AVG	10.03	32.72	54.80	-22.08
3	L1	0.1968	35.36	QP	10.03	45.39	63.74	-18.35
4	L1	0.1968	19.15	AVG	10.03	29.18	53.74	-24.56
5	L1	0.3177	42.07	QP	10.03	52.10	59.77	-7.67
6	L1	0.3177	31.29	AVG	10.03	41.32	49.77	-8.45
7	L1	0.3567	32.03	QP	10.03	42.06	58.80	-16.74
8	L1	0.3567	26.03	AVG	10.03	36.06	48.80	-12.74
9	L1	7.1535	25.14	QP	10.11	35.25	60.00	-24.75
10	L1	7.1535	12.60	AVG	10.11	22.71	50.00	-27.29
11	L1	10.0044	24.17	QP	10.15	34.32	60.00	-25.68
12	L1	10.0044	12.36	AVG	10.15	22.51	50.00	-27.49

Test Mode : USB Mode



Test Data

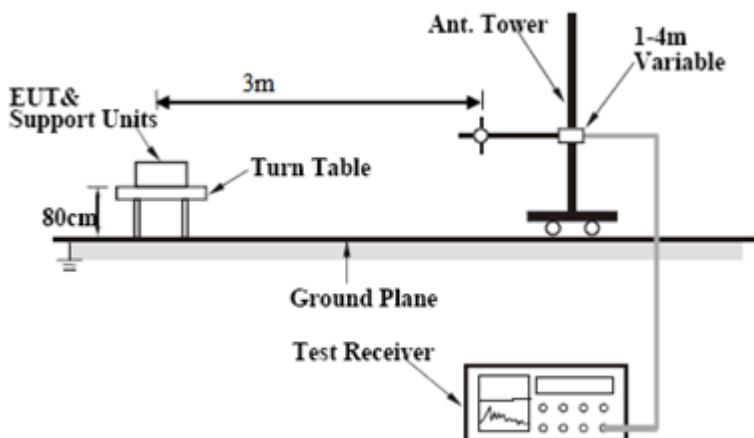
Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	N	0.1500	38.06	QP	10.02	48.08	66.00	-17.92
2	N	0.1500	17.43	AVG	10.02	27.45	56.00	-28.55
3	N	0.1890	34.85	QP	10.02	44.87	64.08	-19.21
4	N	0.1890	15.03	AVG	10.02	25.05	54.08	-29.03
5	N	0.3177	42.30	QP	10.02	52.32	59.77	-7.45
6	N	0.3177	31.76	AVG	10.02	41.78	49.77	-7.99
7	N	0.3528	32.29	QP	10.02	42.31	58.90	-16.59
8	N	0.3528	25.52	AVG	10.02	35.54	48.90	-13.36
9	N	2.9073	18.05	QP	10.05	28.10	56.00	-27.90
10	N	2.9073	13.03	AVG	10.05	23.08	46.00	-22.92
11	N	18.7014	24.83	QP	10.24	35.07	60.00	-24.93
12	N	18.7014	18.65	AVG	10.24	28.89	50.00	-21.11

6.2 Radiated Emissions

Temperature	22°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	January 13, 2017
Tested By :	Evans He

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. A 'Turn Table' is positioned on a 'Ground Plane'. An 'EUT & Support Units' assembly is mounted on the turn table, with a vertical distance of '80cm' indicated. A '3m' horizontal distance is marked between the EUT and a 'Ant. Tower'. The 'Ant. Tower' is mounted on a vertical post and is labeled '1-4m Variable' to indicate its height adjustment range. A 'Test Receiver' is connected to the turn table assembly, likely for signal processing or measurement.</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) 											

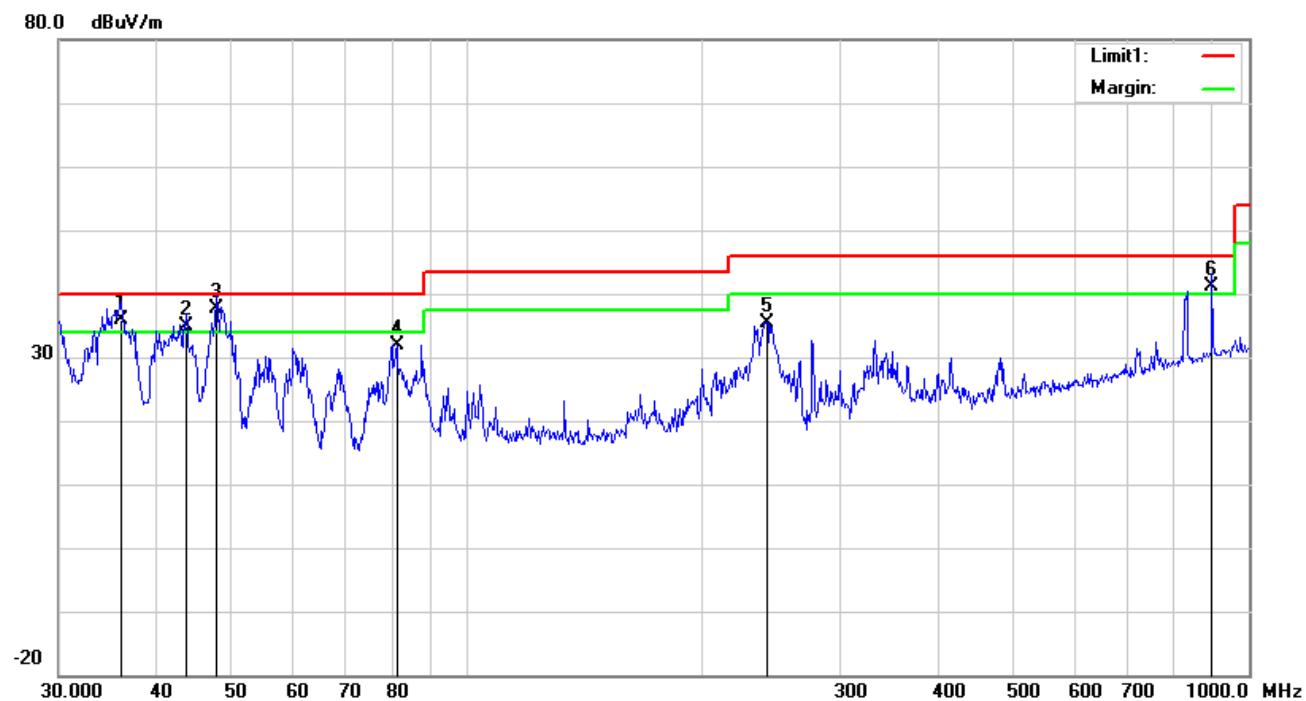
	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum 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

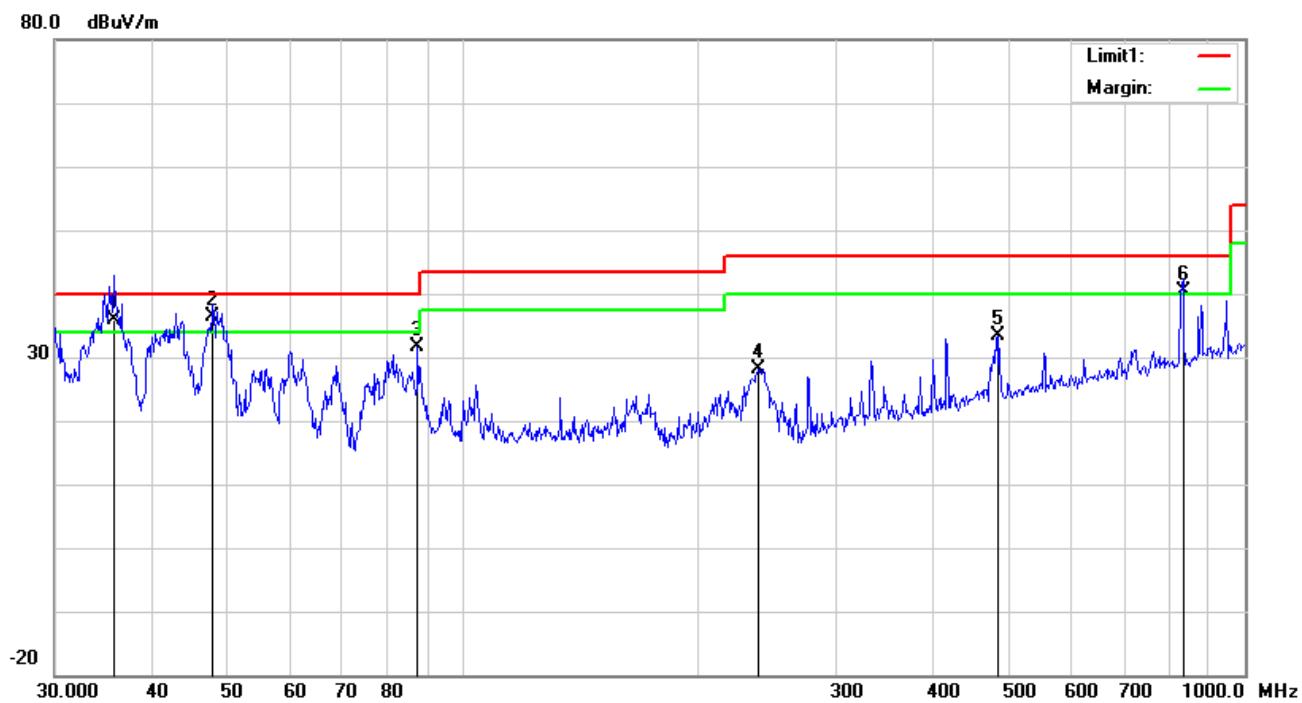


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	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	H	36.0007	40.64	QP	16.82	22.26	0.77	35.97	40.00	-4.03	200	342
2	H	43.6585	44.93	QP	11.49	22.29	0.76	34.89	40.00	-5.11	300	132
3	H	47.8260	49.86	QP	9.36	22.34	0.78	37.66	40.00	-2.34	100	338
4	H	81.2117	45.57	peak	7.65	22.41	1.05	31.86	40.00	-8.14	300	79
5	H	241.6763	44.50	peak	11.52	22.30	1.67	35.39	46.00	-10.61	300	66
6	H	896.9965	36.38	QP	22.47	20.89	3.06	41.02	46.00	-4.98	200	348

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	35.7491	40.47	QP	17.00	22.25	0.76	35.98	40.00	-4.02	200	183
2	V	47.8260	48.68	QP	9.36	22.34	0.78	36.48	40.00	-3.52	100	247
3	V	87.4177	44.99	peak	7.90	22.35	1.01	31.55	40.00	-8.45	300	178
4	V	238.3102	37.32	peak	11.56	22.31	1.66	28.23	46.00	-17.77	100	153
5	V	483.9094	35.54	peak	17.38	21.84	2.33	33.41	46.00	-12.59	100	348
6	V	833.3171	36.82	QP	21.77	21.06	2.90	40.43	46.00	-5.57	300	118

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)
1034.81	51.99	55	140	V	-20.11	74	-22.01	PK
1655.32	54.16	132	100	V	-21.63	74	-19.84	PK
1998.77	53.37	97	200	V	-20.42	74	-20.63	PK
1364.65	52.36	80	200	H	-20.05	74	-21.64	PK
1880.46	54.02	101	100	H	-21.47	74	-19.98	PK
2113.94	53.76	143	200	H	-20.11	74	-20.24	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

Whole Package View



Adapter - Front View



EUT - Front View



EUT - Rear View



EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View



Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View 1



Cover Off - Top View 2



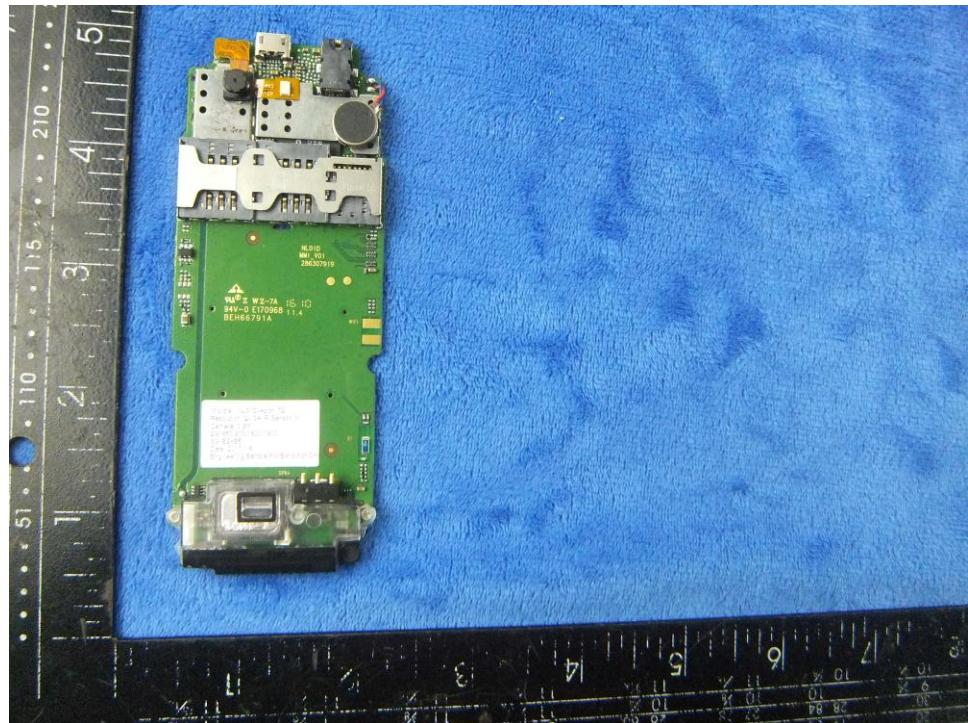
Battery - Front View



Battery - Rear View



Mainboard with Shielding - Front View



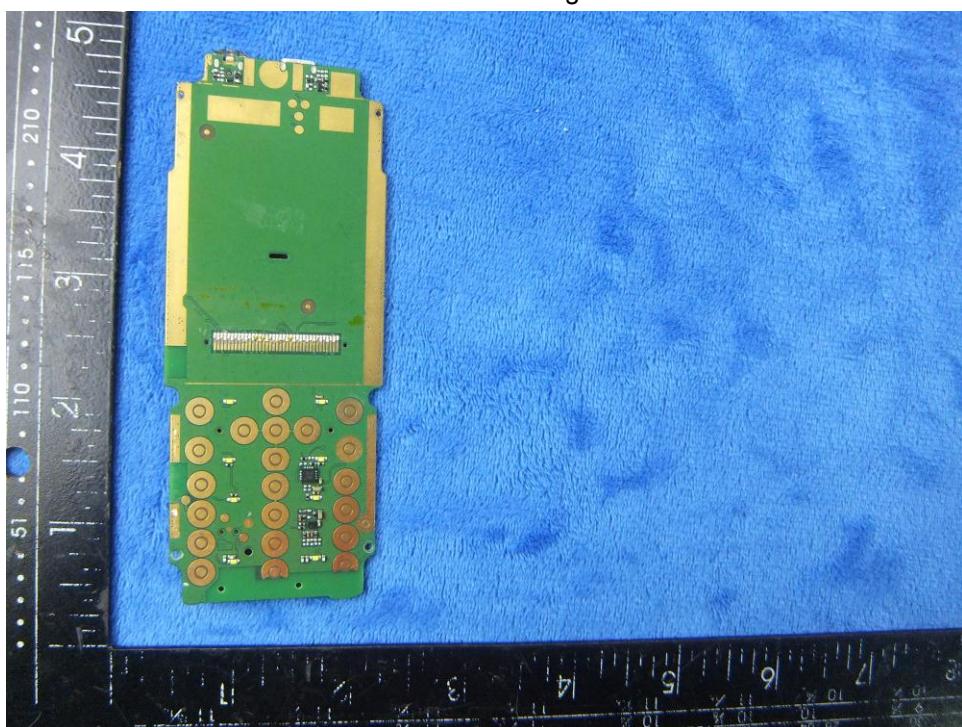
Mainboard without Shielding - Front View



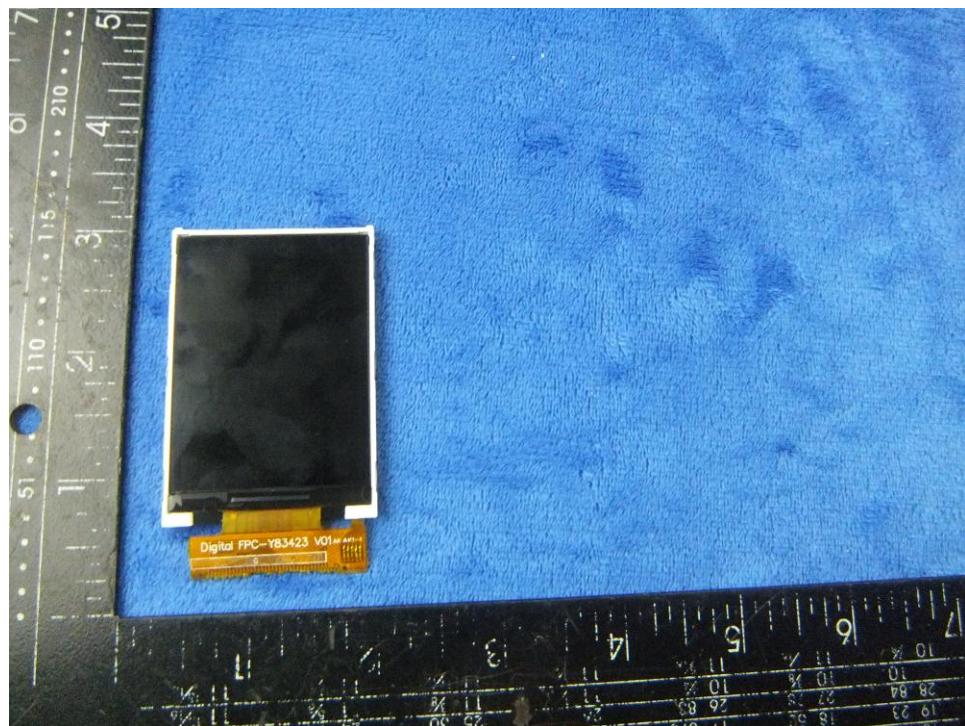
Mainboard with Shielding – Rear View



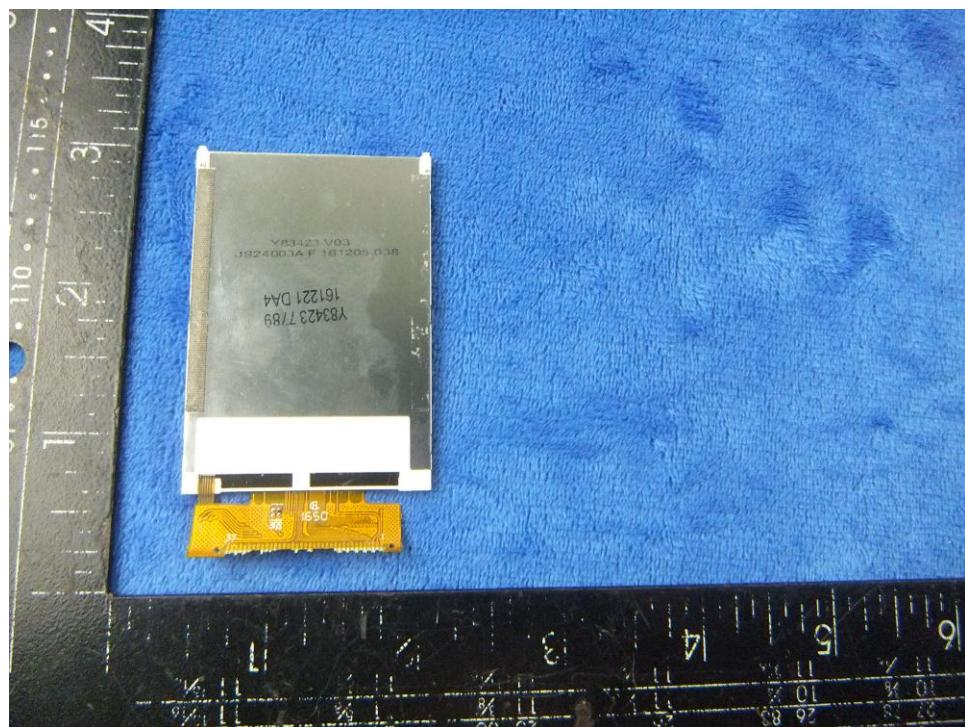
Mainboard without Shielding - Rear View



LCD – Front View



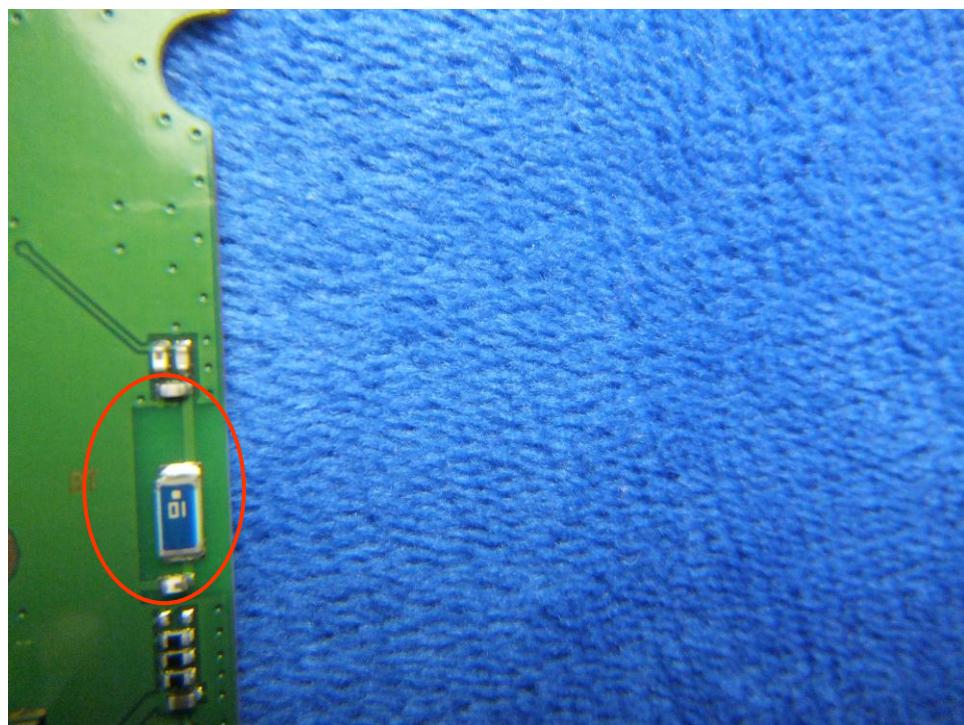
LCD – Rear View



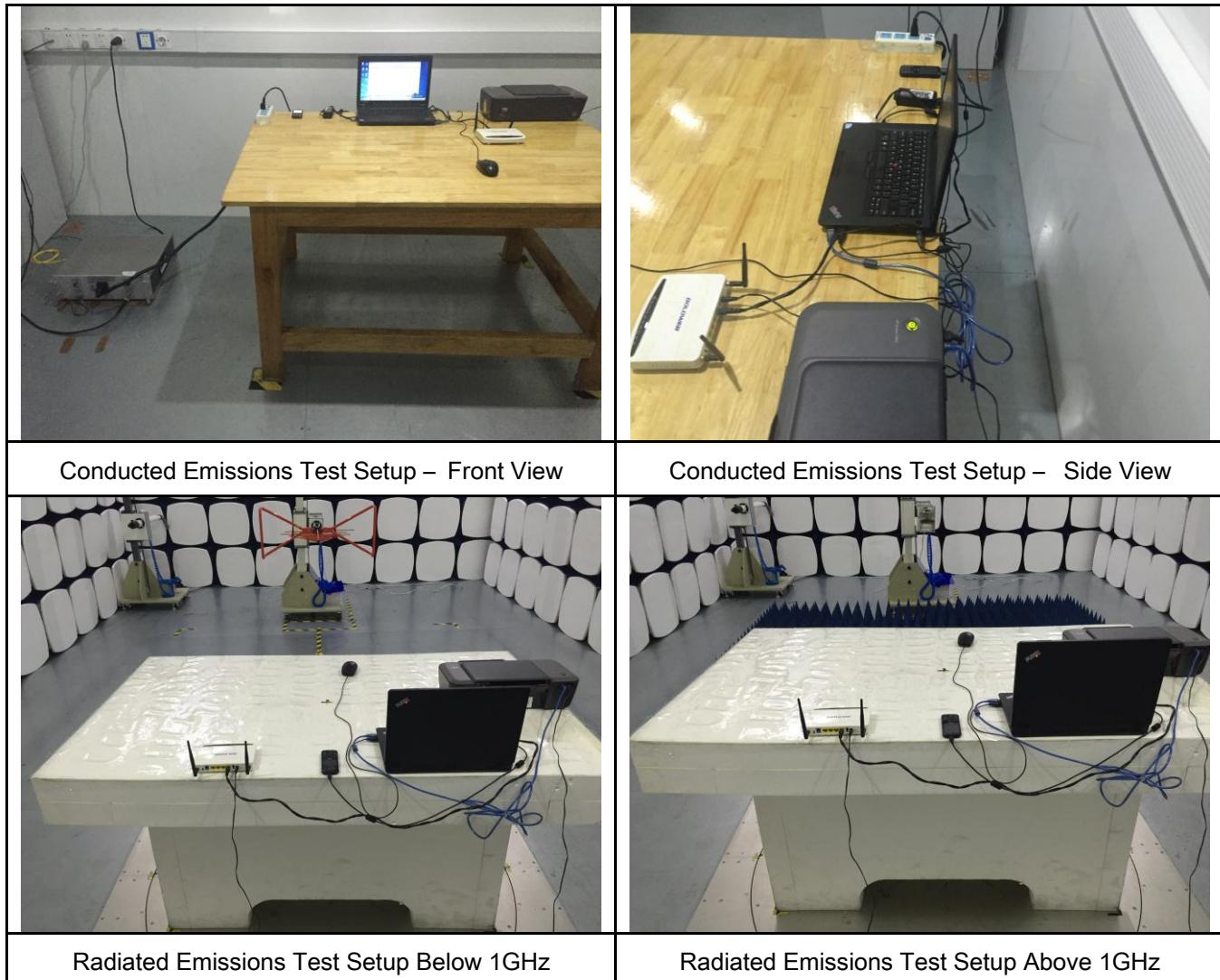
GSM/PCS/UMTS-FDD Antenna View



BT - Antenna View



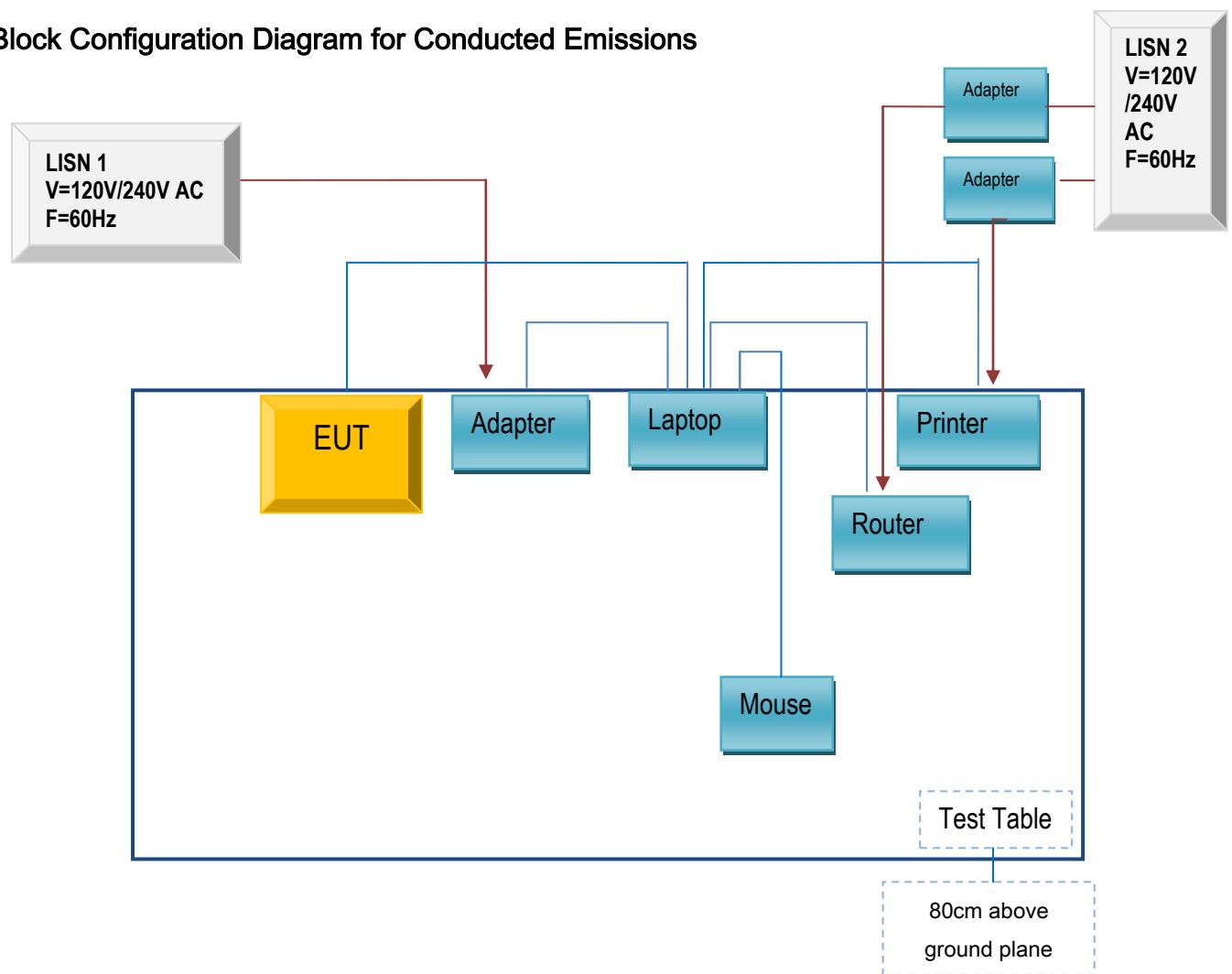
Annex B.iii. Photograph: Test Setup Photo



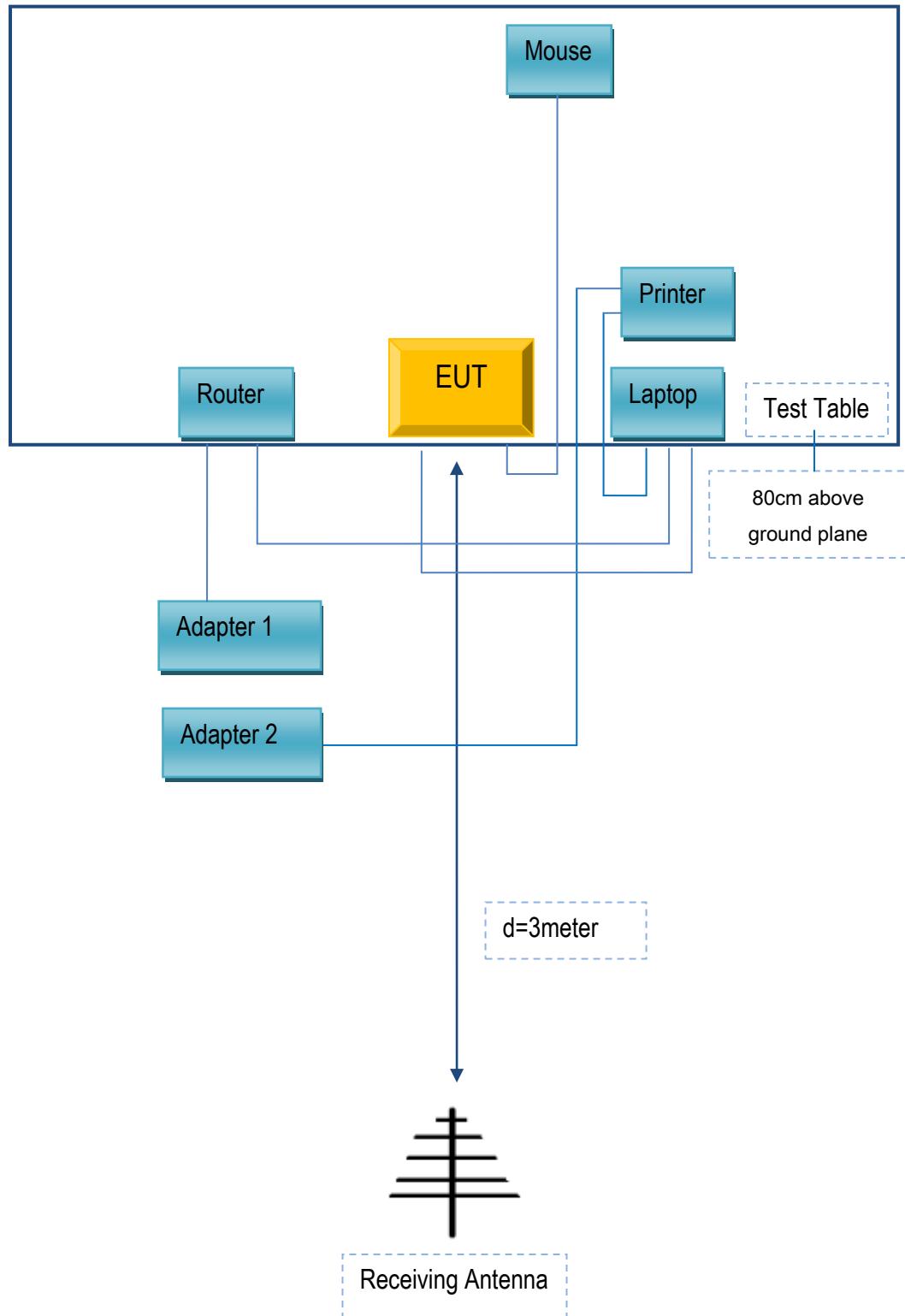
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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
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