
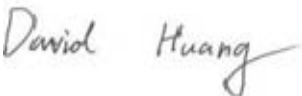



EMC TEST REPORT



Report No.: 16071303-FCC-E

Supersede Report No: N/A

Applicant	Shenzhen Konka Telecommunications Technology Co., Ltd.	
Product Name	Smart Phone	
Model No.	R5	
Serial No.	N/A	
Test Standard	FCC Part 15 Subpart B Class B:2015, ANSI C63.4: 2014	
Test Date	November 05 to 21, 2016	
Issue Date	November 21, 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

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16071303-FCC-E	NONE	Original	November 21, 2016

2. Customer information

Applicant Name	Shenzhen Konka Telecommunications Technology Co., Ltd.
Applicant Add	No.9008 Shennan Road,Overseas Chinese Town, ShenZhen, Guangdong,China
Manufacturer	
Manufacturer Add	

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: Smart Phone

Main Model: R5

Serial Model: N/A

Antenna Gain:

GSM850: -0.09dBi
 GSM900: -0.01dBi(This is CE frequency)
 GSM1800: 0.93dBi(This is CE frequency)
 PCS1900: 0.99dBi
 UMTS-FDD Band II:0.93dBi
 UMTS-FDD Band VIII:-0.01dBi(This is CE frequency)
 LTE Band I:0.97dBi(This is CE frequency)
 LTE Band III: 0.93dBi(This is CE frequency)
 LTE Band IV: -0.41dBi
 Bluetooth/BLE/WIFI:2.01dBi
 GPS:2.01dBi

Input Power:

Adapter:
 Model: U0B2E0A050100
 Input: AC100-240V~50/60Hz,150mA
 Output: DC 5.0V,1A
 Battery:
 Model: KLB210N340
 Capacity:3.8V,2000mAh,7.6Wh
 Limited charger voltage:4.35V

Equipment Category : JBP

Type of Modulation:

GSM / GPRS: GMSK
 EGPRS: GMSK,8PSK
 UMTS-FDD: QPSK
 LTE Band: QPSK, 16QAM
 802.11b/g/n: DSSS, OFDM
 Bluetooth: GFSK, π /4DQPSK, 8DPSK
 BLE: GFSK
 GPS:BPSK

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	<p>GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz</p> <p>PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz</p> <p>EGSM900 TX:880-915 MHz; RX: 925-960MHz(This is CE frequency)</p> <p>DCS1800 TX:1710-1785MHz;RX:1805-1880MHz(This is CE frequency)</p> <p>UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;</p> <p style="padding-left: 100px;">RX: 1932.4 ~ 1987.6 MHz</p> <p>UMTS-FDD Band VIII: TX:880-915 MHz ;</p> <p style="padding-left: 100px;">RX:925-960 MHz (This is CE frequency)</p>
RF Operating Frequency (ies):	<p>LTE Band I: TX: 1920 -1980 MHz;</p> <p style="padding-left: 100px;">RX: 2110-2170 MHz (This is CE frequency)</p> <p>LTE Band III: TX:1710-1785 MHz;</p> <p style="padding-left: 100px;">RX:1805-1880 MHz (This is CE frequency)</p> <p>LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7 ~ 2154.3 MHz</p> <p>WIFI: 802.11b/g/n(20M): 2412-2462 MHz</p> <p>WIFI: 802.11n(40M): 2422-2452 MHz</p> <p>Bluetooth& BLE: 2402-2480 MHz</p> <p>GPS: 1575.42 MHz</p>
Number of Channels:	<p>GSM 850: 124CH</p> <p>PCS1900: 299CH</p> <p>UMTS-FDD Band II: 277CH</p> <p>WIFI :802.11b/g/n(20M): 11CH</p> <p>WIFI :802.11n(40M): 7CH</p> <p>Bluetooth: 79CH</p> <p>BLE: 40CH</p> <p>GPS:1CH</p>
Antenna Type:	PIFA antenna
Port:	USB Port, Earphone Port
Trade Name :	KONKA
FCC ID:	UT3KKR5
Date EUT received:	November 04, 2016
Test Date(s):	November 05 to 21, 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	24°C
Relative Humidity	57%
Atmospheric Pressure	1015mbar
Test date :	November 15, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.107	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.															
		<table><tr><th rowspan="2">Frequency ranges (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>QP</th><th>Average</th></tr><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></table>	Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50	
Frequency ranges (MHz)	Limit (dBµV)																
	QP	Average															
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															

Test Setup	 <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>
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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.
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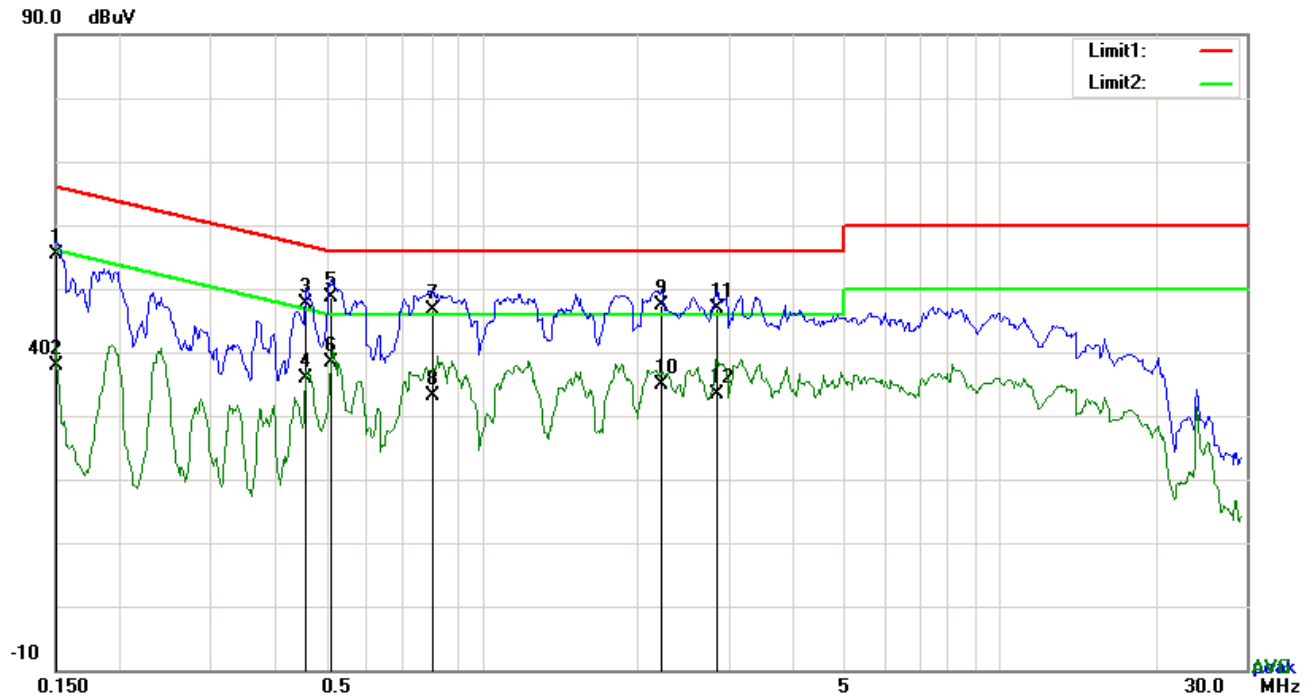
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	<p>3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</p> <p>4. All other supporting equipment were powered separately from another main supply.</p> <p>5. The EUT was switched on and allowed to warm up to its normal operating condition.</p> <p>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.</p> <p>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.</p> <p>8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).</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

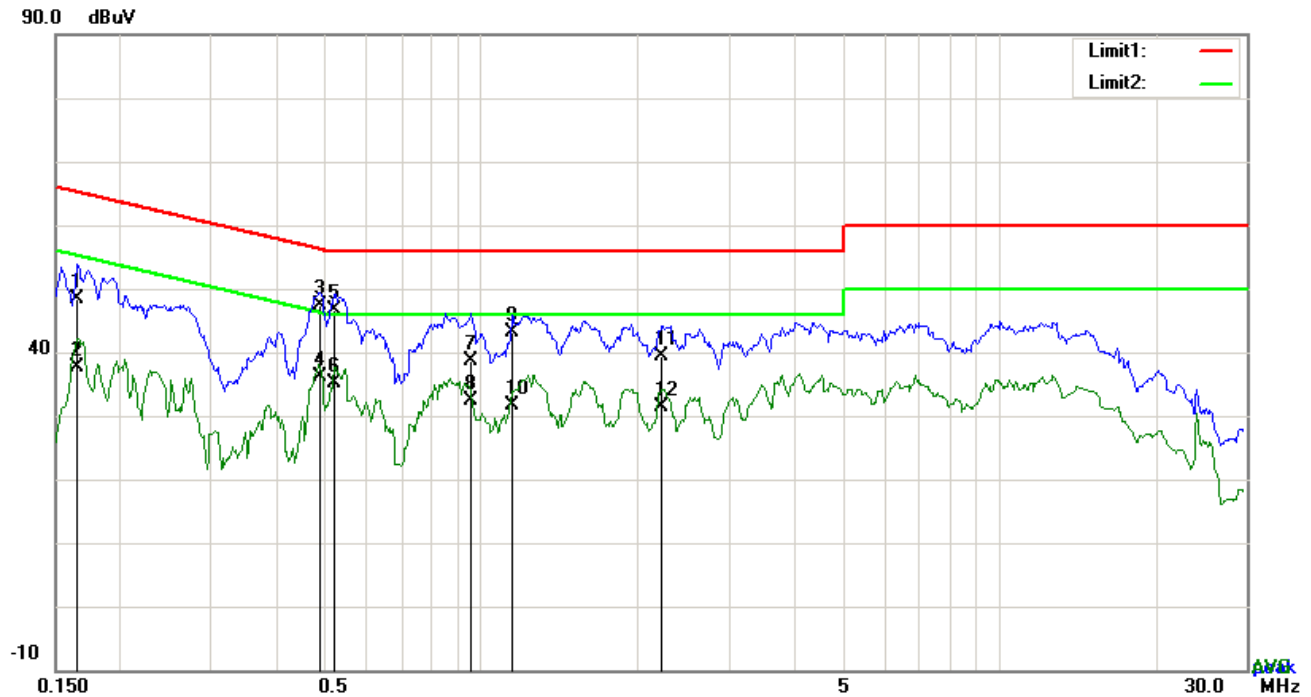


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1500	42.10	QP	13.20	55.30	66.00	-10.70
2	L1	0.1500	24.73	AVG	13.20	37.93	56.00	-18.07
3	L1	0.4581	35.45	QP	12.06	47.51	56.73	-9.22
4	L1	0.4581	23.73	AVG	12.06	35.79	46.73	-10.94
5	L1	0.5127	36.68	QP	11.89	48.57	56.00	-7.43
6	L1	0.5127	26.50	AVG	11.89	38.39	46.00	-7.61
7	L1	0.8052	35.14	QP	11.59	46.73	56.00	-9.27
8	L1	0.8052	21.44	AVG	11.59	33.03	46.00	-12.97
9	L1	2.2209	35.96	QP	11.40	47.36	56.00	-8.64
10	L1	2.2209	23.50	AVG	11.40	34.90	46.00	-11.10
11	L1	2.8410	35.46	QP	11.40	46.86	56.00	-9.14
12	L1	2.8410	21.94	AVG	11.40	33.34	46.00	-12.66

Test Mode : USB Mode

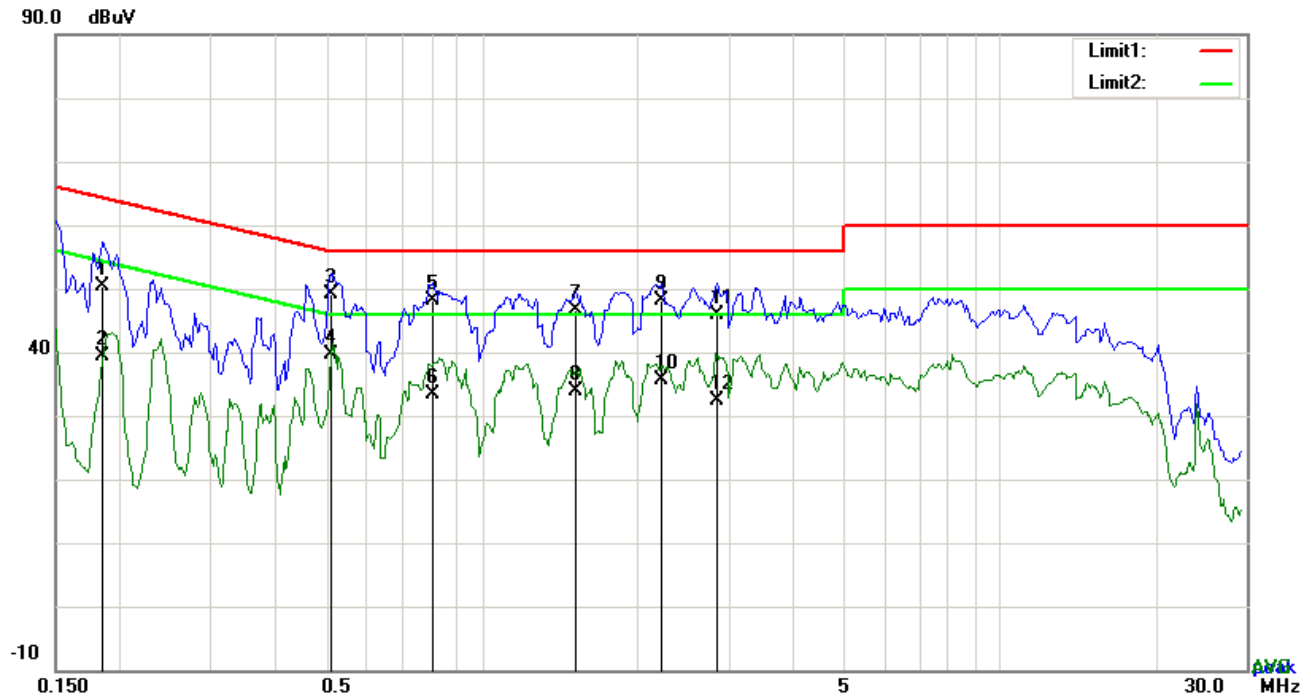


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1656	35.21	QP	13.14	48.35	65.18	-16.83
2	N	0.1656	24.52	AVG	13.14	37.66	55.18	-17.52
3	N	0.4863	35.38	QP	11.95	47.33	56.23	-8.90
4	N	0.4863	24.10	AVG	11.95	36.05	46.23	-10.18
5	N	0.5205	34.76	QP	11.88	46.64	56.00	-9.36
6	N	0.5205	23.29	AVG	11.88	35.17	46.00	-10.83
7	N	0.9534	27.27	QP	11.45	38.72	56.00	-17.28
8	N	0.9534	20.88	AVG	11.45	32.33	46.00	-13.67
9	N	1.1445	31.81	QP	11.42	43.23	56.00	-12.77
10	N	1.1445	20.17	AVG	11.42	31.59	46.00	-14.41
11	N	2.2326	27.82	QP	11.55	39.37	56.00	-16.63
12	N	2.2326	19.79	AVG	11.55	31.34	46.00	-14.66

Test Mode : USB Mode

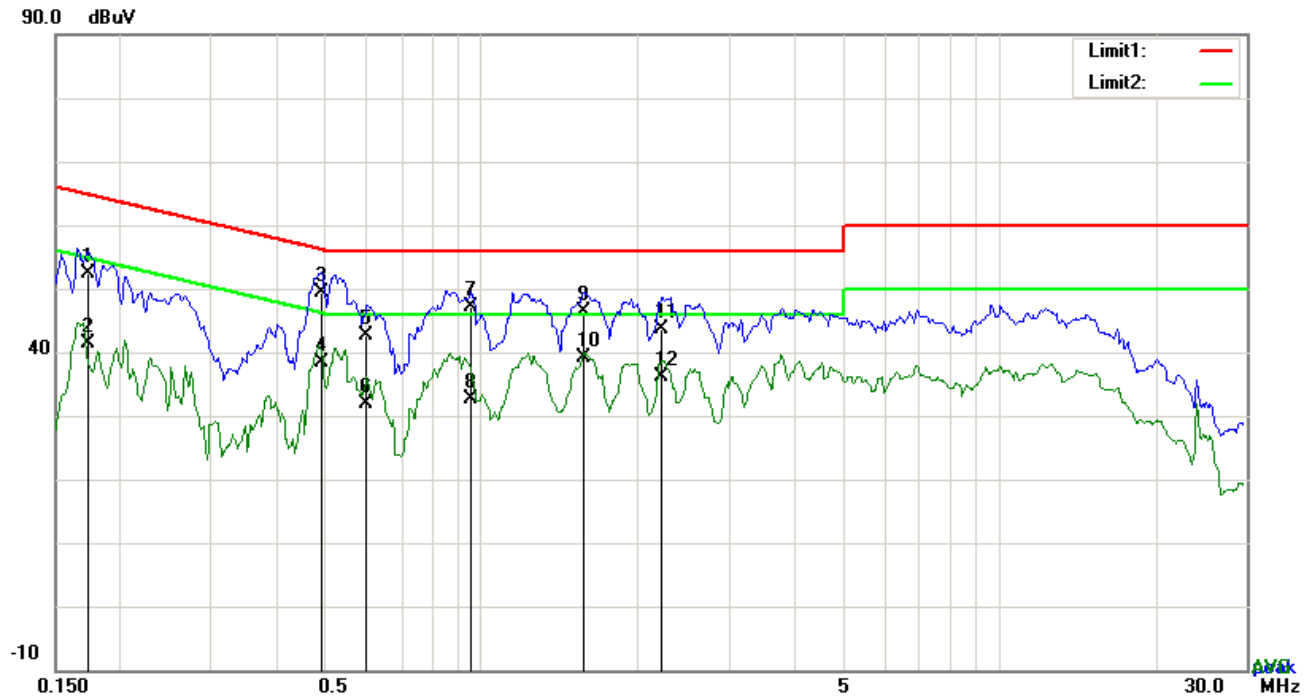


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1851	37.28	QP	13.07	50.35	64.25	-13.90
2	L1	0.1851	26.25	AVG	13.07	39.32	54.25	-14.93
3	L1	0.5127	37.24	QP	11.89	49.13	56.00	-6.87
4	L1	0.5127	27.69	AVG	11.89	39.58	46.00	-6.42
5	L1	0.8052	36.58	QP	11.59	48.17	56.00	-7.83
6	L1	0.8052	21.83	AVG	11.59	33.42	46.00	-12.58
7	L1	1.5189	35.20	QP	11.40	46.60	56.00	-9.40
8	L1	1.5189	22.53	AVG	11.40	33.93	46.00	-12.07
9	L1	2.2209	36.81	QP	11.40	48.21	56.00	-7.79
10	L1	2.2209	24.19	AVG	11.40	35.59	46.00	-10.41
11	L1	2.8410	34.44	QP	11.40	45.84	56.00	-10.16
12	L1	2.8410	20.86	AVG	11.40	32.26	46.00	-13.74

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	0.1734	39.20	QP	13.11	52.31	64.80	-12.49
2	N	0.1734	28.23	AVG	13.11	41.34	54.80	-13.46
3	N	0.4893	37.42	QP	11.94	49.36	56.18	-6.82
4	N	0.4893	26.32	AVG	11.94	38.26	46.18	-7.92
5	N	0.5985	30.85	QP	11.80	42.65	56.00	-13.35
6	N	0.5985	20.16	AVG	11.80	31.96	46.00	-14.04
7	N	0.9534	35.67	QP	11.45	47.12	56.00	-8.88
8	N	0.9534	21.11	AVG	11.45	32.56	46.00	-13.44
9	N	1.5735	34.92	QP	11.47	46.39	56.00	-9.61
10	N	1.5735	27.78	AVG	11.47	39.25	46.00	-6.75
11	N	2.2326	31.96	QP	11.55	43.51	56.00	-12.49
12	N	2.2326	24.69	AVG	11.55	36.24	46.00	-9.76

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)	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		
		Frequency range (MHz)		Field Strength (µV/m)
		30 – 88		100
		88 – 216		150
		216 960		200
		Above 960		500

Test Setup	
------------	--

Procedure	<ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> Vertical or horizontal polarization (whichever gave the higher emission level
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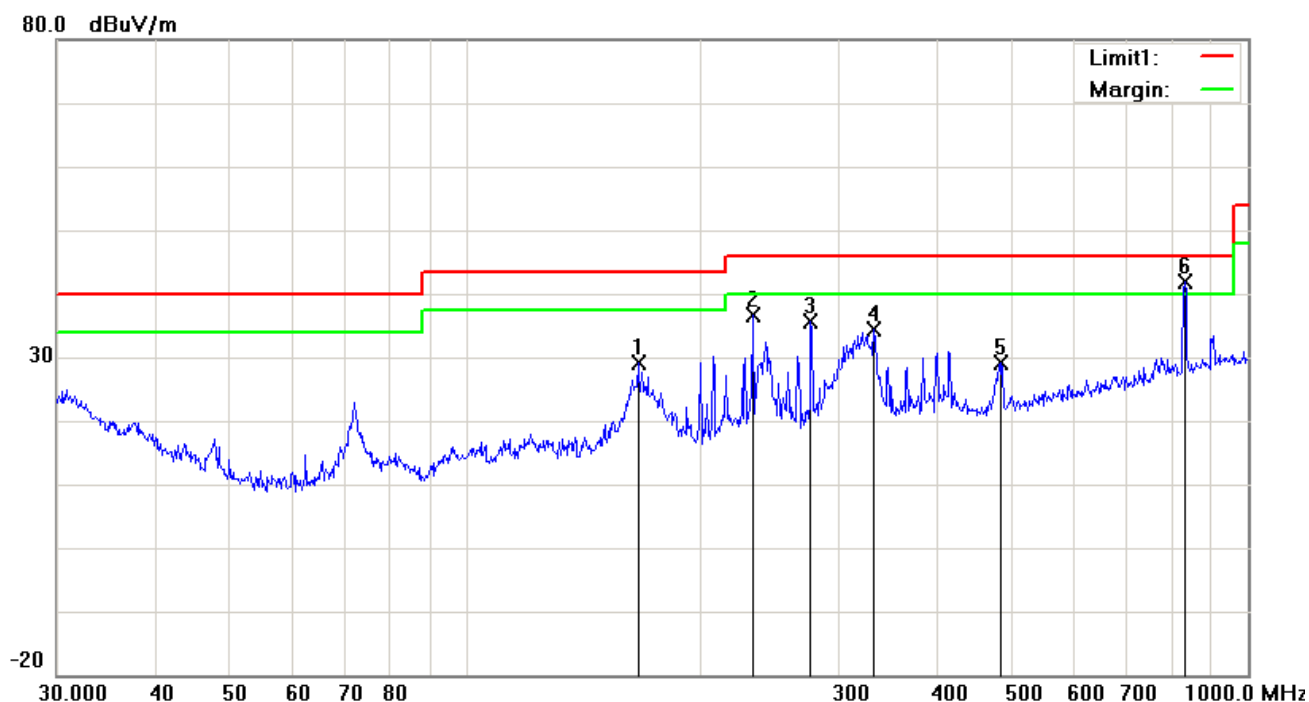
	<p>over a full rotation of the EUT) was chosen.</p> <p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi 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> <p>■ 1 kHz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)</p> <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

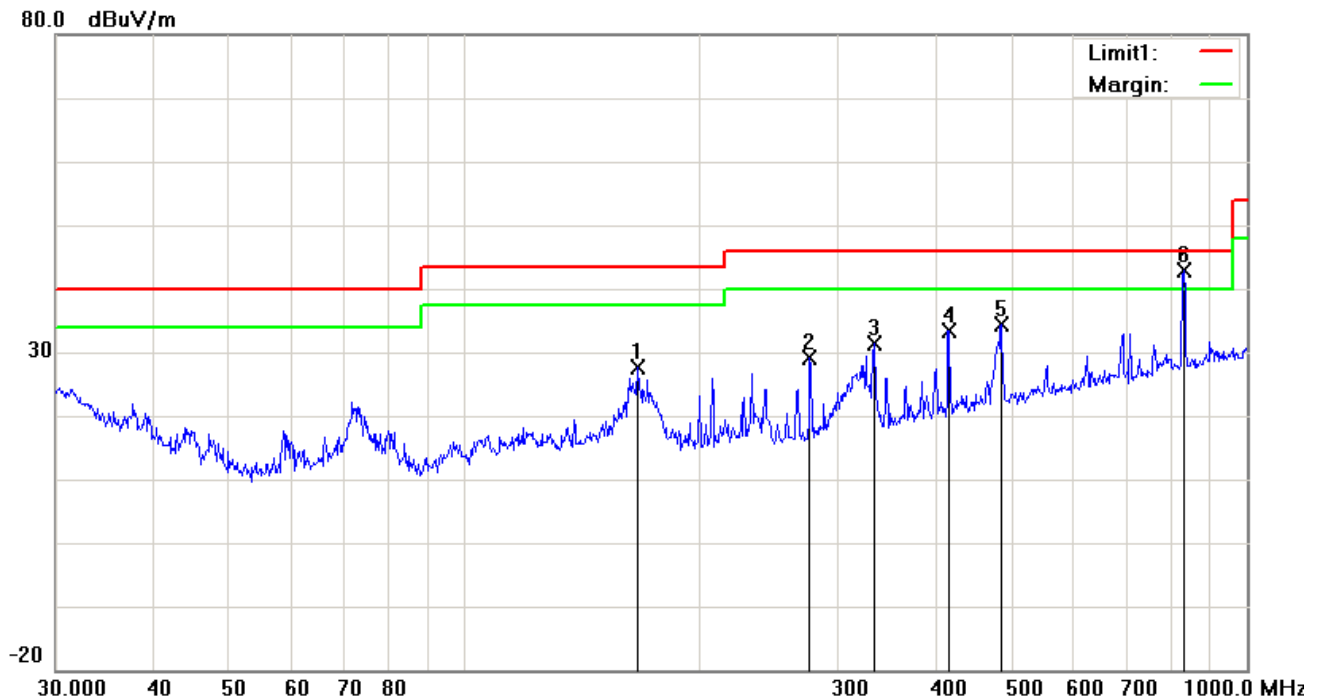


Test Data

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	166.0680	37.84	peak	-8.78	29.06	43.50	-14.44	100	249
2	H	232.5318	45.62	peak	-9.04	36.58	46.00	-9.42	100	33
3	H	276.1236	43.62	peak	-7.99	35.63	46.00	-10.37	100	125
4	H	332.5187	40.35	peak	-5.97	34.38	46.00	-11.62	100	184
5	H	483.9094	31.14	peak	-2.13	29.01	46.00	-16.99	100	321
6	H	830.4002	38.21	QP	3.57	41.78	46.00	-4.22	100	176

Below 1GHz



Test Data

Vertical 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	V	166.0680	36.43	peak	-8.78	27.65	43.50	-15.85	100	96
2	V	276.1236	37.19	peak	-7.99	29.20	46.00	-16.80	100	113
3	V	333.6867	37.36	peak	-5.93	31.43	46.00	-14.57	100	154
4	V	416.1791	37.38	peak	-3.91	33.47	46.00	-12.53	100	76
5	V	485.6093	36.58	peak	-2.09	34.49	46.00	-11.51	100	218
6	V	830.4002	39.23	QP	3.57	42.80	46.00	-3.20	100	345

Above 1GHz

Frequency (MHz)	Amplitude (dBμV/m)	Azimuth	Height (cm)	Polarity (H/V)	Factors (dB)	Limit (dBμV/m)	Margin (dB)	Detector (PK/AV)
1306.85	53.42	76	161	V	-22.57	74	-20.58	PK
1994.31	54.65	127	148	V	-23.65	74	-19.35	PK
1653.44	52.37	85	137	V	-21.33	74	-21.63	PK
2015.76	53.76	61	204	H	-20.86	74	-20.24	PK
1763.48	52.77	115	246	H	-21.41	74	-21.23	PK
2765.87	51.85	98	115	H	-22.39	74	-22.15	PK

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

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



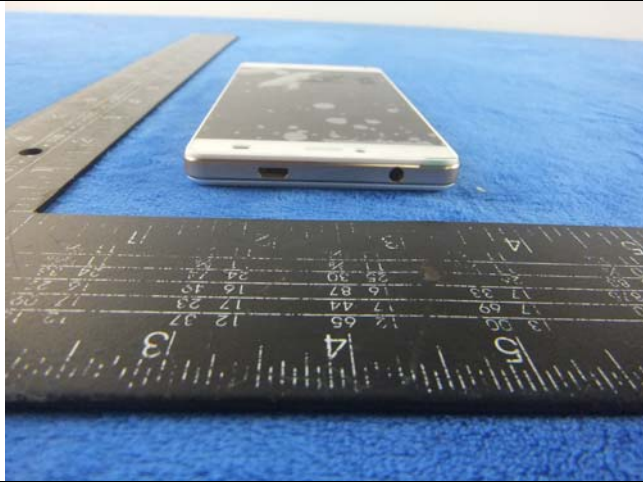
Adapter - Front View



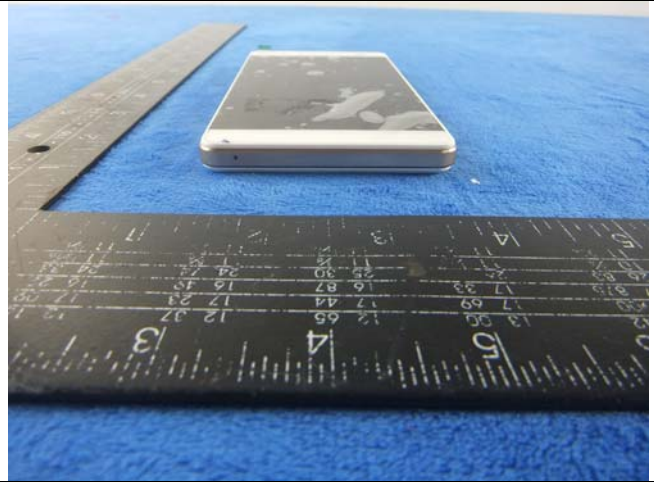
EUT - Front View



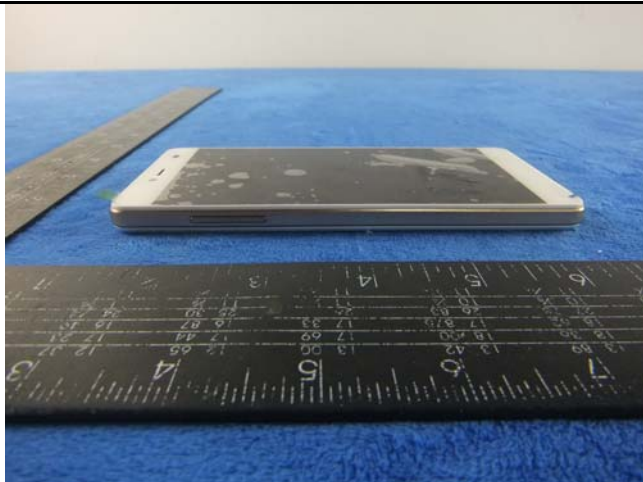
EUT - Rear View



EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View

Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1



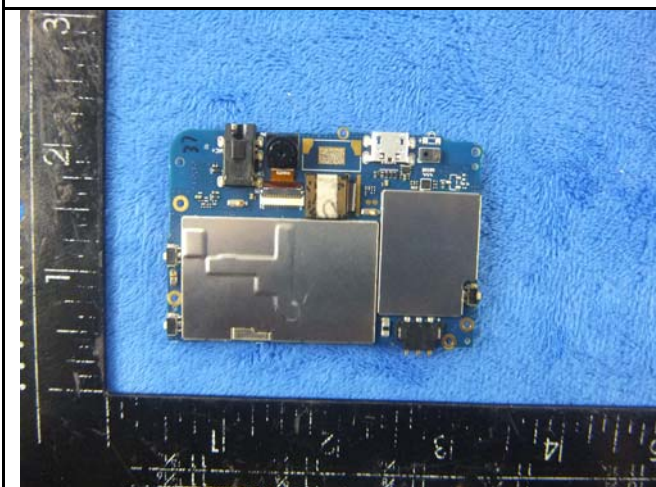
Cover Off - Top View 2



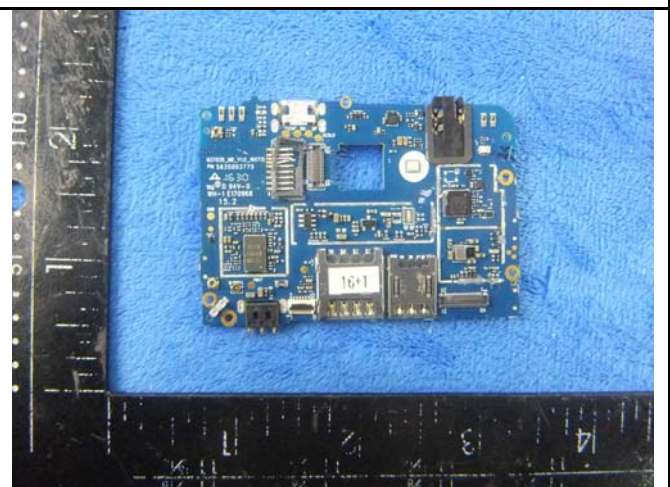
Battery - Front View



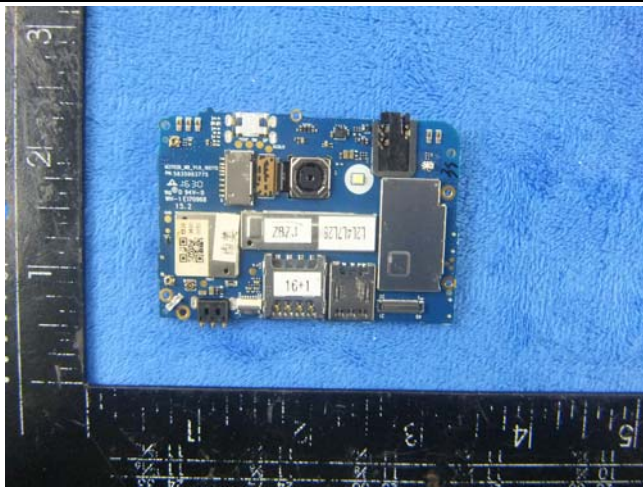
Battery - Rear View



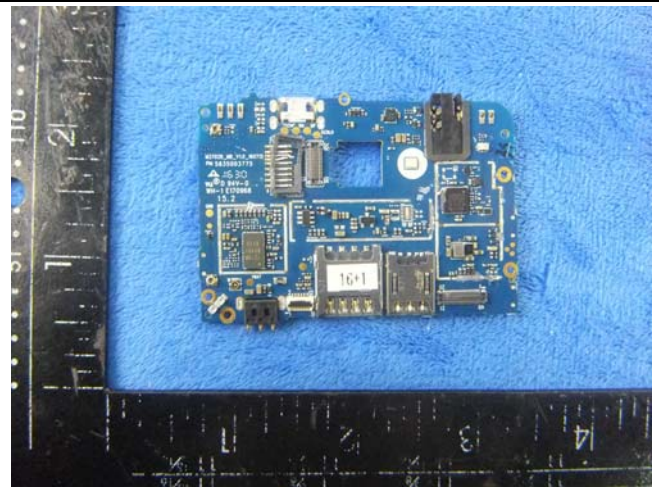
Mainboard with sheilding - Front View



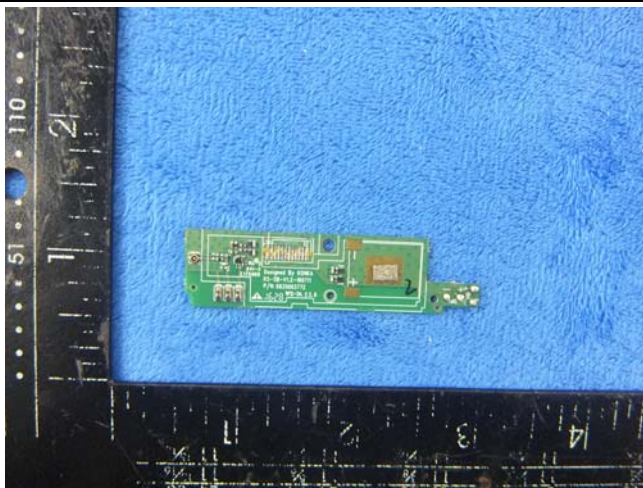
Mainboard without sheilding - Front View



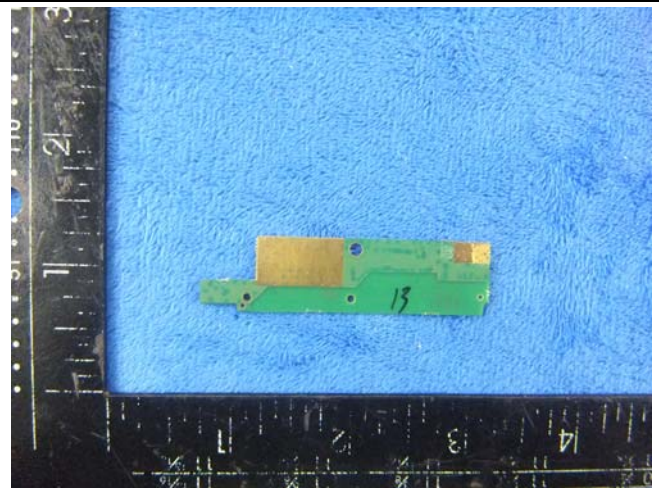
Mainboard with sheilding – Rear View



Mainboard without sheilding – Rear View



Smallboard – Front View



Smallboard - Rear View



LCD – Front View



LCD – Rear View

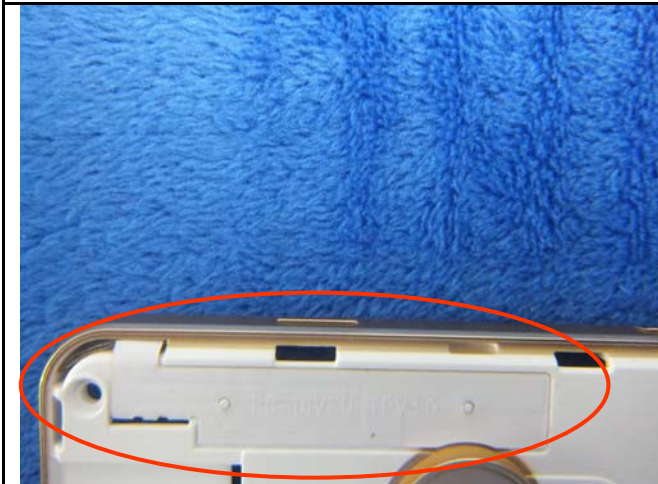
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GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE/GPS - Antenna View



LTE Antenna View

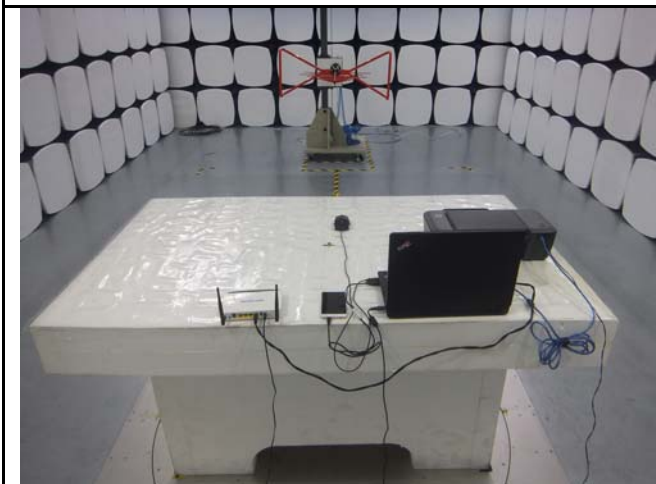
Annex B.iii. Photograph: Test Setup Photo



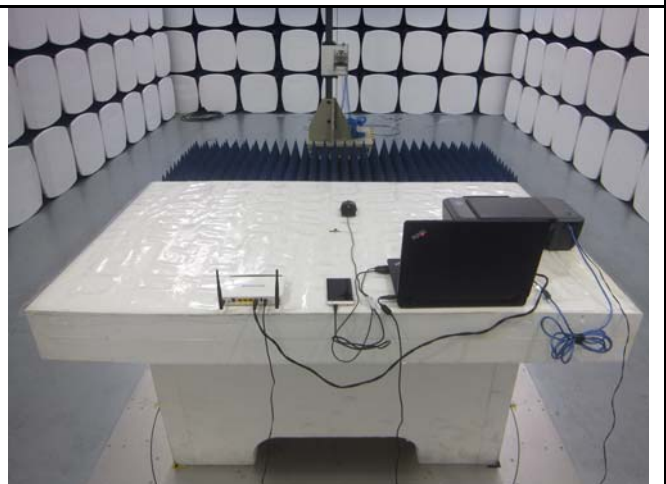
Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View



Radiated Emissions Test Setup Below 1GHz

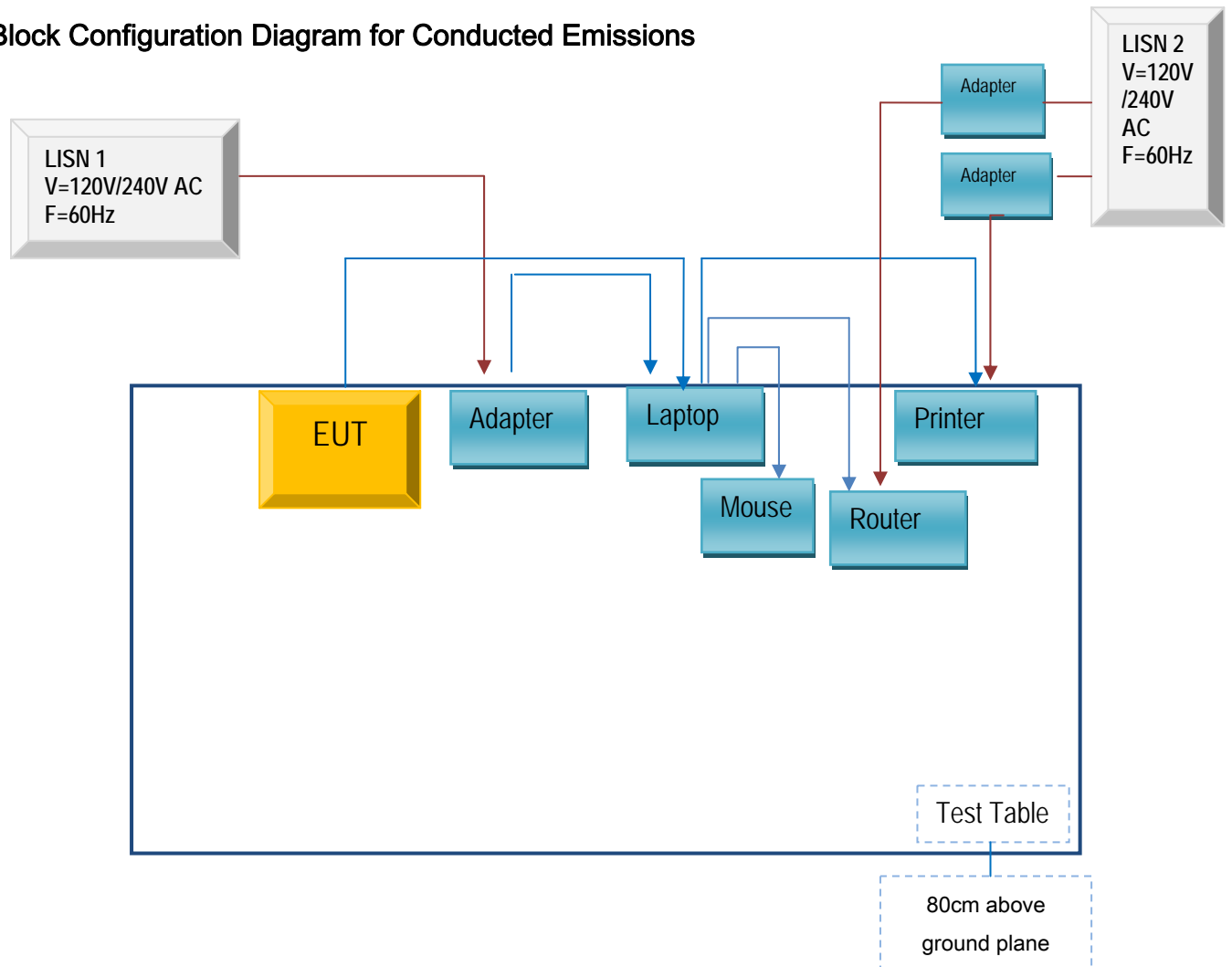


Radiated Emissions Test Setup Above 1GHz

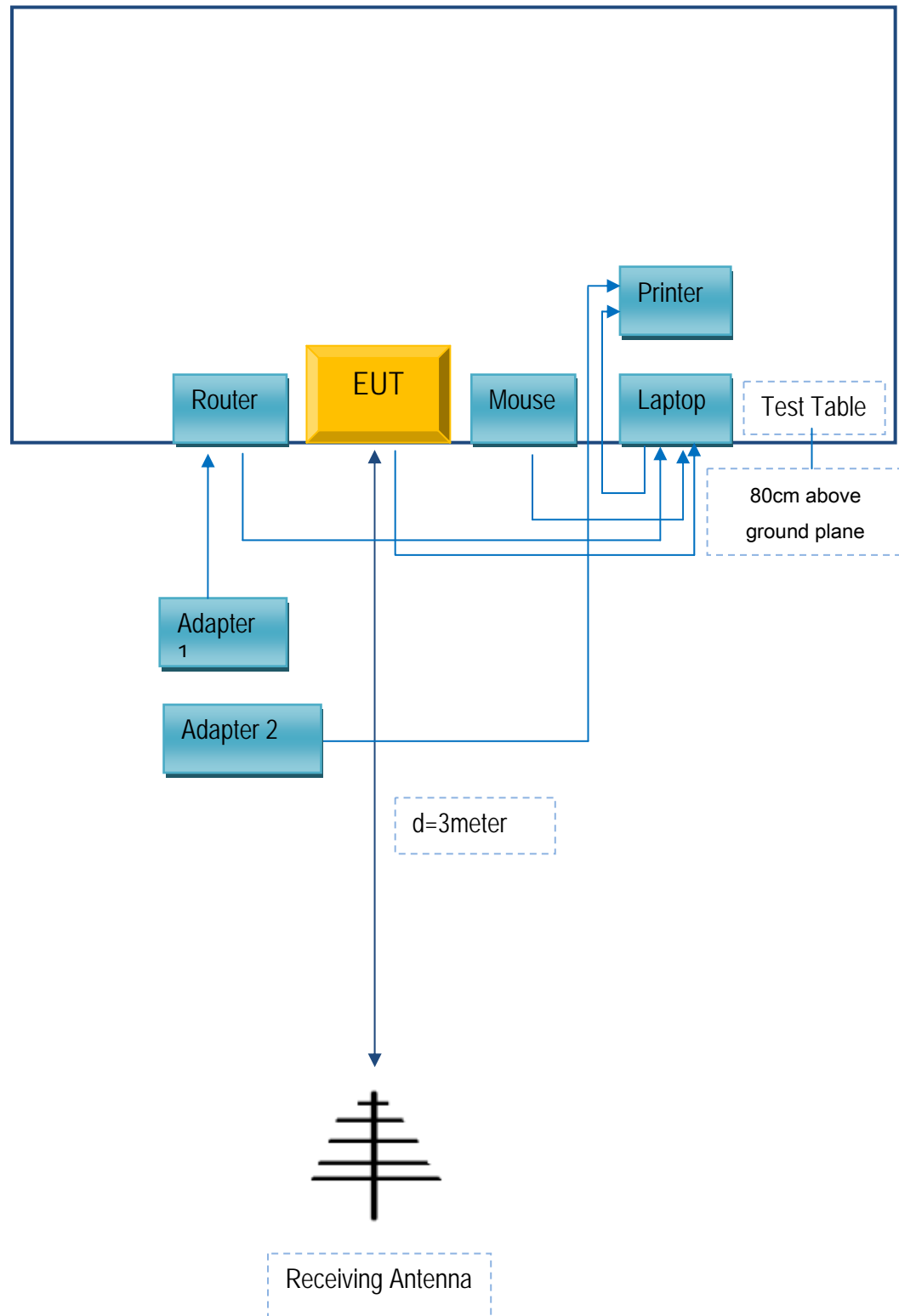
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

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

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

Please see the attachment

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Annex E. DECLARATION OF SIMILARITY

N/A