FCC TEST REPORT

FOR

Shenzhen ZKC Software Technology Co.,Ltd

Android POS Terminal

Test Model: PC701

Additional Model NO.: PC800, PC900

Prepared for Address	:	Shenzhen ZKC Software Technology Co.,Ltd 1st Floor, No. 1 Block, Zhongkenuo Industry Park, Beiqi Road, Xixiang Town, Bao'an District, Shenzhen, China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
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Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	October 12, 2015
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	October 12, 2015 – November 03, 2015
Date of Report	:	November 03, 2015

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FCC TEST REPORT FCC CFR 47 PART 15 C (15.225)-2014

Report Reference No	
	. : LCS1511040358E
Date of Issue	: November 03, 2015
Testing Laboratory Name	. : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	. : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
Testing Location/ Procedure	• : Full application of Harmonised standards
	Partial application of Harmonised standards
	Other standard testing method \Box
Applicant's Name	. : Shenzhen ZKC Software Technology Co.,Ltd
Address	. : 1st Floor, No. 1 Block, Zhongkenuo Industry Park, Beiqi Road Xixiang Town, Bao'an District, Shenzhen, China
Test Specification	
Standard	. : FCC CFR 47 PART 15 C(15.225)-2014
Test Report Form No	: LCSEMC-1.0
TRF Originator	: Shenzhen LCS Compliance Testing Laboratory Ltd.
TRF Originator	
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Master TRF Shenzhen LCS Compliance Tess This publication may be reproduce Shenzhen LCS Compliance Testis of the material. Shenzhen LCS Co will not assume liability for dama material due to its placement and	 Dated 2011-03 ting Laboratory Ltd. All rights reserved. eed in whole or in part for non-commercial purposes as long as the ng Laboratory Ltd. is acknowledged as copyright owner and source compliance Testing Laboratory Ltd. takes no responsibility for and ages resulting from the reader's interpretation of the reproduced context. Android POS Terminal
Master TRF Shenzhen LCS Compliance Test This publication may be reproduce Shenzhen LCS Compliance Testin of the material. Shenzhen LCS Co will not assume liability for dama material due to its placement and Test Item Description	 . : Dated 2011-03 ting Laboratory Ltd. All rights reserved. eed in whole or in part for non-commercial purposes as long as the ng Laboratory Ltd. is acknowledged as copyright owner and source ompliance Testing Laboratory Ltd. takes no responsibility for and ages resulting from the reader's interpretation of the reproduced context. . : Android POS Terminal . : N/A
Master TRF Shenzhen LCS Compliance Test This publication may be reproduce Shenzhen LCS Compliance Testing of the material. Shenzhen LCS Compliance Testing will not assume liability for dama material due to its placement and Test Item Description Trade Mark Test Model	 Dated 2011-03 ting Laboratory Ltd. All rights reserved. eed in whole or in part for non-commercial purposes as long as the ng Laboratory Ltd. is acknowledged as copyright owner and source ompliance Testing Laboratory Ltd. takes no responsibility for and ages resulting from the reader's interpretation of the reproduced context. Android POS Terminal N/A

Dick Su/ File administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

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FCC -- TEST REPORT

Test Report No. : LCS1511040358E

November 03, 2015 Date of issue

Test Model	: PC701
EUT	: Android POS Terminal
Applicant	: Shenzhen ZKC Software Technology Co.,Ltd
	: 1st Floor, No. 1 Block, Zhongkenuo Industry Park, Beiqi Road, Xixiang Town, Bao'an District, Shenzhen, China
Telephone	:/
Fax	: /
Manufacturer	: Shenzhen ZKC Software Technology Co.,Ltd
Address	: 1st Floor, No. 1 Block, Zhongkenuo Industry Park, Beiqi Road, Xixiang Town, Bao'an District, Shenzhen, China
Telephone	
Fax	: /
Factory	: Shenzhen ZKC Software Technology Co.,Ltd
Address	 Shenzhen ZKC Software Technology Co., Ltd 1st Floor, No. 1 Block, Zhongkenuo Industry Park, Beiqi Road, Xixiang Town, Bao'an District, Shenzhen, China
Telephone	: /
Fax	: /

Test Result	Positive
Test Result	Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AGEB-PC701

Report No.: LCS1511040358E

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	: Android POS Terminal
Test Model	: PC701
Additional Model	PC800, PC900
Model Declaration	: PCB board, structure and internal of the related model(s) are
	the same, So no additional models were tested.
Hardware Version	: MT6572-PC701 V1.2 20151009
Software Version	: ALPS.JB3.MP.V1.6.01
Power Supply	: DC 7.4V by Lithium ion polymer battery(2500mAh)
	Recharged by DC 9V/3A Travel Charger
EUT Support	: GSM/GPRS/EGPRS(Only Downlink)/
Radios Application	WCDMA/HSUPA/HSDPA/WIFI/Bluetooth/NFC/GPS(Only
	RX)
RFID Technology	:
Operating Frequency	: 13.56MHz
Channel Number	: 1
Modulation Technology	: ASK
Antenna Description	: Loop Antenna, 1.5dBi(Max.)

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Manufacturer	Description	Model	Serial Number	Certificate
Shenzhen Mingxin Power Technologies Co.,Ltd.	Charger	MX36Z1-0903 000		DOC

1.2 Host System Configuration List and Details

1.3 External I/O

I/O Port Description	Quantity	Cable
USB Port	3	1.0m
PSAM Slot	1	N/A
SIM Card Slot	2	N/A
TF Card Slot	1	N/A
DC IN	1	N/A
RJ45	1	N/A
RJ11	1	N/A
RS232	1	N/A

1.4 Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal Date	Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	June 18,2015	June 17,2016
Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	9kHz~40GHz	July 16,2015	July 15,2016
LISN	MESS Tec	NNB-2/16Z	99079	9KHz-30MHz	June 18,2015	June 17,2016
LISN (Support Unit)	EMCO	3819/2NM	9703-1839	9KHz-30MHz	June 18,2015	June 17,2016
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9KHz-30MHz	June 18,2015	June 17,2016
ISN	SCHAFFNER	ISN ST08	21653	9KHz-30MHz	June 18,2015	June 17,2016
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30M-1GHz 3m	June 18,2015	June 17,2016
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHzz	June 18,2015	June 17,2016
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	July 16,2015	July 15,2016
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz-40GHz	July 16,2015	July 15,2016
Spectrum Analyzer	Agilent	E4407B	MY41440292	9k-26.5GHz	July 16,2015	July 15,2016
MAX Signal Analyzer	Agilent	N9020A	MY50510140	20Hz~26.5GHz	Oct. 27, 2015	Oct. 26, 2016
Loop Antenna	R&S	HFH2-Z2	860004/001	9k-30MHz	June 18,2015	June 17,2016
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	30MHz-1GHz	June 10,2015	June 09,2016
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	June 10,2015	June 09,2016
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	June 10,2015	June 09,2016
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	June 18,2015	June 17,2016
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz-40GHz	June 18,2015	June 17,2016
Power Meter	R&S	NRVS	100444	DC-40GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z51	100458	DC-30GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	June 18,2015	June 17,2016
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	June 18,2015	June 17,2016
RF CABLE-2m	JYE Bao	RG142	CB035-2m	20MHz-1GHz	June 18,2015	June 17,2016
DC power Source	GW	GPC-6030D	C671845	/	June 18,2015	June 17,2016
Temperature & Humidity Chamber	Wuhuan	HTP205	/	/	June 18,2015	June 17,2016

1.5 List Of Measuring Equipments

1.6 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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1.7 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	3.10dB	(1)
		30MHz~200MHz	2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	3.10dB	(1)
		1GHz~26.5GHz	3.80dB	(1)
		26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	••	150kHz~30MHz	1.63dB	(1)
Power disturbance	:	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8 Description Of Test Modes

There are three test configurations for the pre-testing:

There are two test configurations for the pre-testing:

Configuration 1: Configured with Switching Power Adapter (Used For Charging)

Configuration 2: Configured with Switching Power Adapter and Docking Station (Used For Charging)

For pre-testing, the input Voltage/Frequency AC 120V/60Hz and AC 240V/60Hz were used. We found that the Configuration 2(Input AC 120V/60Hz) was the worst case and used for the full test and recorded in this report.

The EUT was operated in the engineering mode. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in Y position.

Test Items	FCC Rules	Result
Line Conducted Emissions	15.207	PASS
Field Strength of Fundamental Emissions	15.225(a)(b)(c)	PASS
Radiated Emissions	15.225(d) & 15.209	PASS
20dB Bandwidth	2.1049	PASS
Frequency Stability	15.225(e)	PASS
Antenna Requirement	15.203	PASS

1.9 Summary Of Test Result

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013, FCC CFR PART 15C 15.225.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.225 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

According to the requirements in Section 6.2 of ANSI C63.10: 2013, AC power-line conducted emissions shall be measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table and the turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10: 2013

3. SYSTEM TEST CONFIGURATION

3.1 Justification

N/A.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the report.

3.5 Equipment Modifications

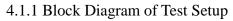
Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

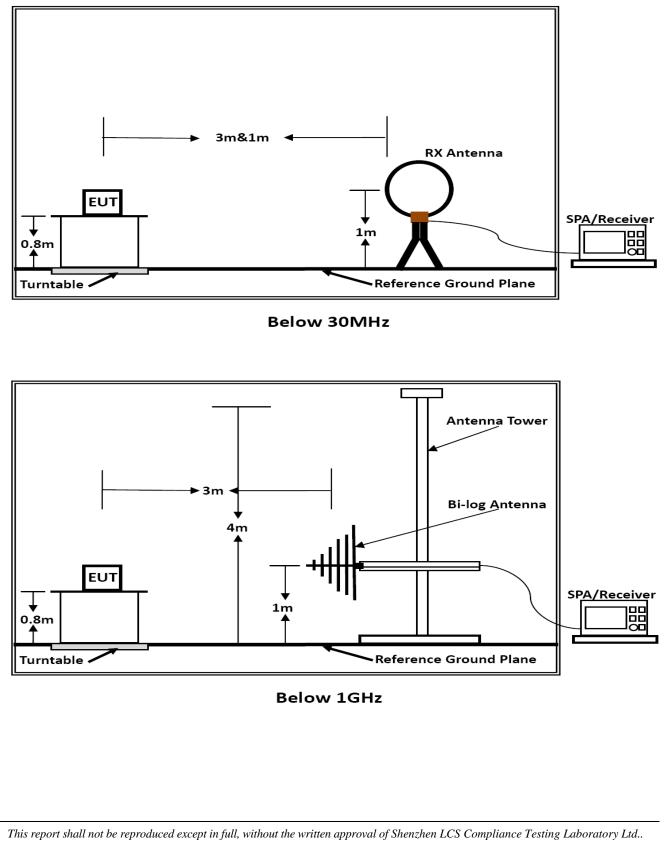
3.6 Test Setup

Please refer to the test setup photo.

4. RADIATED MEASUREMENT

4.1 Radiated Emission





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4.1.2 Radiated Emission Limit

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2 Above 38.6

Part 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector.

According to Part 15.225 (a), the field strength of any emissions which appear outside of $13.553 \sim 13.567$ MHz band shall not exceed the general radiated emissions limits.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Limit calculation and transfer to 3m distance as showed in the following table:

Frequency	Limit	Distance	
(MHz)	(dBuV/m)	(m)	
0.009-0.490	20log(2400/F(KHz))+40log(300/3)	3	
0.490-1.705	20log(2400/F(KHz))+40log(300/3)	3	
1.705-30.0	69.5	3	
30-88	40.0	3	
88-216	43.5	3	
216-960	46.0	3	
Above 960	54.0	3	

4.1.3 Test Results

PASS.

The test data please refer to following page:

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<u>9KHz ~ 30MHz</u>

Note: Only recorded the worst test result for the worst test configuration(Configuration 2(Input AC 120V/60Hz)).

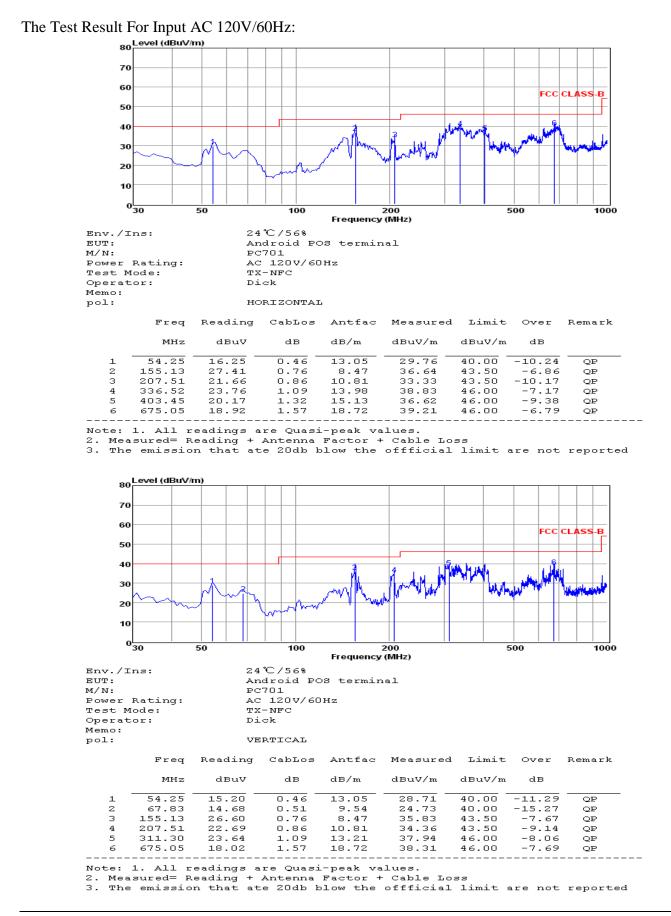
Freq.	Antenna	Reading	Factor	Measured	Limit	Margin	
MHz	Pol.	dBuV	dB	dBuV/m	dBuV/m	dB	Remark
0.350	Н				65		
1.000	Н				65		
3.81	Н	35.64	11.71	47.35	69.5	-22.15	Peak
9.59	Н	18.53	11.04	29.57	69.5	-39.93	Peak
13.56	Н	41.14	10.86	52.00	124	-72.00	Peak
15.67	Н	13.87	10.54	24.41	69.5	-45.09	Peak
21.35	Н	15.63	9.60	25.23	69.5	-44.27	Peak
27.52	Н	10.94	8.91	19.85	69.5	-49.65	Peak
0.350	V				65		
1.000	V				65		
3.81	V	37.18	11.69	48.87	69.5	-20.63	Peak
9.59	V	18.41	11.01	29.42	69.5	-40.08	Peak
13.56	V	43.39	10.86	54.25	124	-69.75	Peak
15.67	V	14.56	10.57	25.13	69.5	-44.37	Peak
21.35	V	16.17	9.59	25.76	69.5	-43.74	Peak
27.52	V	11.88	8.93	20.81	69.5	-48.69	Peak

*Note: Factor= Antenna Gain + Cable Loss – Amplifier Gain;

"--" means noise floor.

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<u>30MHz ~ 1GHz</u>

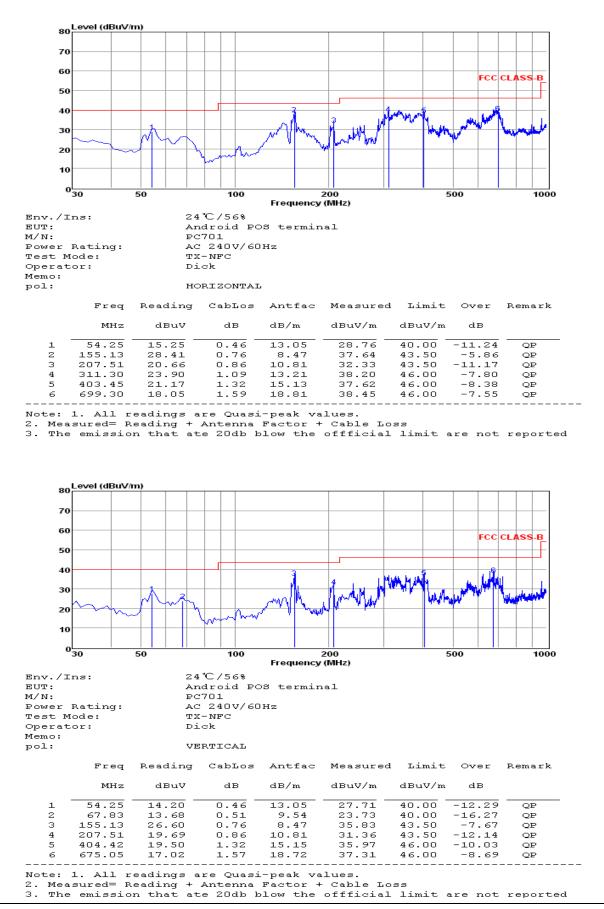


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FCC ID: 2AGEB-PC701 Rep

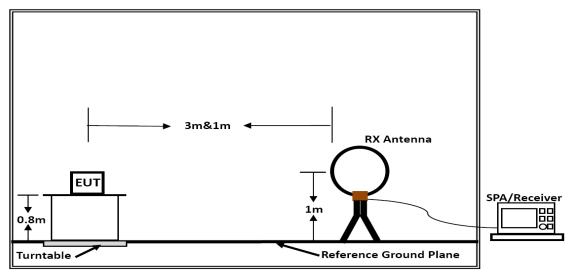
Report No.: LCS1511040358E

The Test Result For Input AC 240V/60Hz:

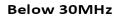


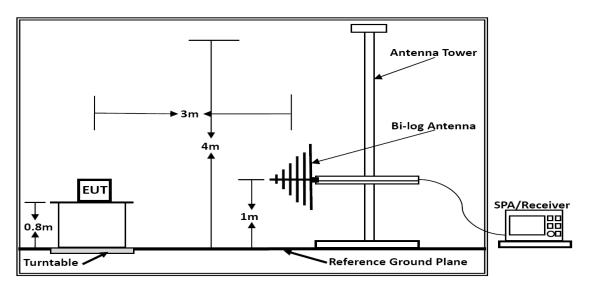
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4.2 Field Strength of Fundamental Emissions and Mask Measurement



4.2.1 Block Diagram of Test Setup





Below 1GHz

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4.2.2 Field strength of fundamental emissions limit and Mask limit

The field strength of fundamental emissions shall not exceed 15848 microvolts/meter at 30 meters. The emissions limit in this paragraph is based on measurement instrumentation employing a QP detector.

Frequencies	Field Strength	Field Strength	Field Strength
(MHz)	(microvolts/meter)	$(dB\mu V/m)$ at 10m	$(dB\mu V/m)$ at $3m$
13.553 ~ 13.567MHz	15848 at 30m	103.08 (QP)	124 (QP)

Mask Limit:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
1.705-13.110	69.5	3
13.110-13.410	80.5	3
13.410-13.553	90.5	3
13.553-13.567	124.0	3
13.567-13.710	90.5	3
13.710-14.010	80.5	3
14.010-30.000	69.5	3

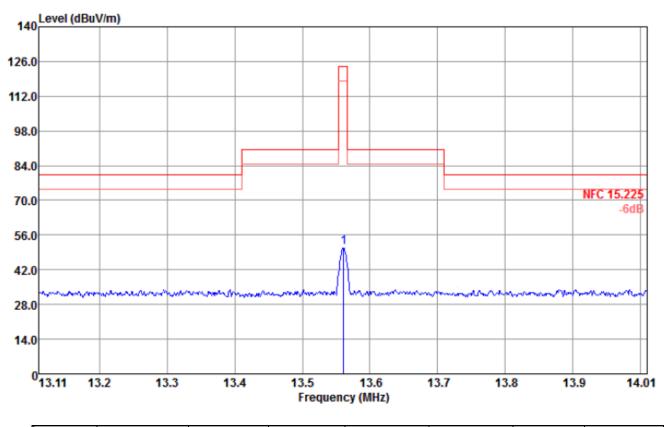
4.2.3 Test Results

PASS.

The test data please refer to following page:

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AGEB-PC701

Report No.: LCS1511040358E



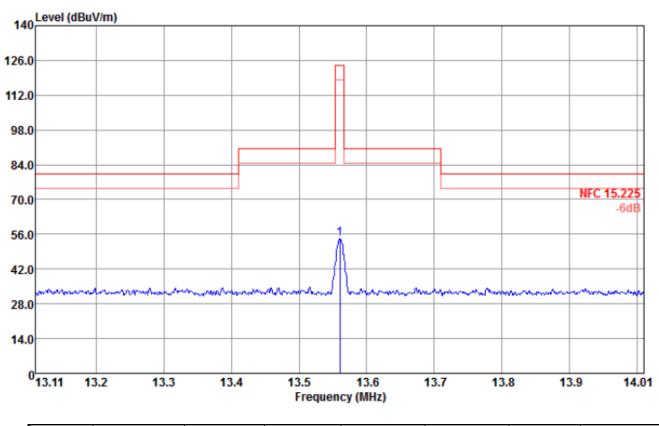
	Freq.(MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Pol.	Remark
1	13.57	41.14	10.86	52.00	124	Н	QP

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SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

FCC ID: 2AGEB-PC701 Report No.: LC

Report No.: LCS1511040358E



	Freq.(MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Pol.	Remark
1	13.57	43.39	10.86	54.25	124	V	QP

*Note: Factor= Antenna Gain + Cable Loss - Amplifier Gain

Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$.

Measured distance is 3m.

All emissions emit form non-NFC function of digital unintentional emissions. All NFC's spurious emissions are below 20dB of limits.

5. BANDWIDTH OF THE OPERATING FREQUENCY

5.1 Standard Applicable

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band $(13.553 \sim 13.567 \text{MHz})$.

5.2 Test Result

EUT	Android POS Terminal
RBW	100Hz
VBW	100Hz
SPAN	500Hz
Carrier Freq. (MHz)	20dBBandwidth (KHz)
13.56	0.249

Please refer to the test plot:



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6. FREQUENCY STABILITY MEASUREMENT

6.1 Standard Applicable

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

6.2 Test Result

Voltage(V)	Measurement Frequency (MHz)
DC 6.7V	13.56048
DC 7.4V	13.56042
DC 8.1V	13.56047
Max. Deviation (MHz)	0.00048
Max. Deviation (ppm)	3.53982

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-20	13.56052
-10	13.56051
0	13.56046
10	13.56042
20	13.56044
30	13.56048
40	13.56056
50	13.56052
Max. Deviation (MHz)	0.00053
Max. Deviation (ppm)	3.90855

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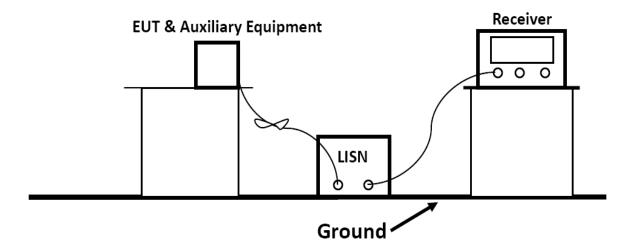
7. LINE CONDUCTED EMISSIONS

7.1 Standard Applicable

According to §15.207 (a) or RSS-GEN: For an intentional radiator which 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 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

	Limits (dBµV)			
Frequency Range(MHz)	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

7.2 Block Diagram of Test Setup



7.3 Test Results

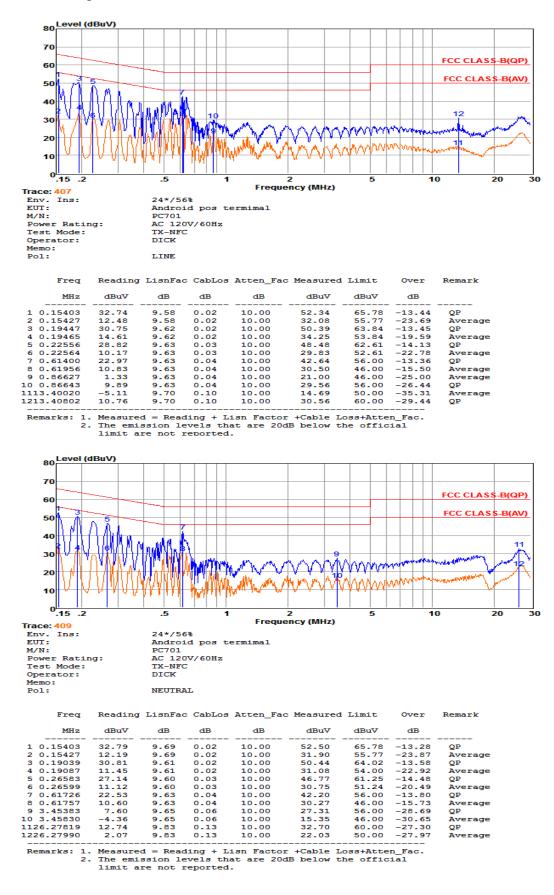
PASS.

The test data please refer to following page.

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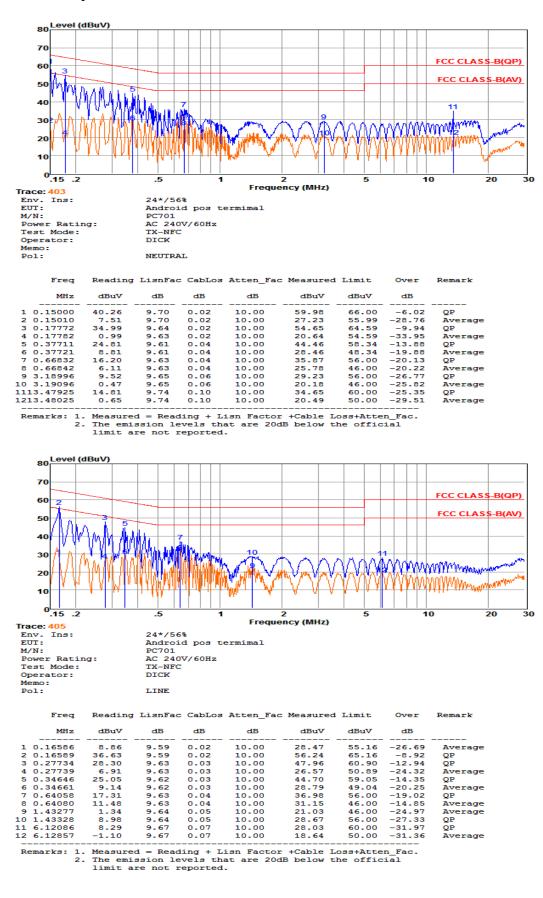
Report No.: LCS1511040358E

The Test Result For Input AC 120V/60Hz



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The Test Result For Input AC 240V/60Hz



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8. ANTENNA REQUIREMENT

8.1 Standard Applicable

According to § 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

8.2 Antenna Connected Construction

The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.

-----THE END OF REPORT------

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