# **FCC Test Report**

APPLICANT : Shanghai Longcheer Technology Co., Ltd.

EQUIPMENT : Mobile Phone BRAND NAME : Longcheer

MODEL NAME : LCT\_L6352\_A01 FCC ID : WH7-LCT-L6352

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

**CLASSIFICATION**: Certification

The product was received on Apr. 23, 2015 and testing was completed on Jul. 01, 2015. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Louis Wu

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WH7-LCT-L6352 Page Number : 1 of 22 Report Issued Date : Jul. 09, 2015

Report No.: FC542307

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### **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC542307	Rev. 01	Initial issue of report	Jul. 09, 2015

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### **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	11.41 dB at
					0.470 MHz
					Under limit
3.2	2 15.109 Radiated Emission	< 15.109 limits	PASS	2.20 dB at	
3.2		Radiated Effission	< 15.109 lilling	PASS	950.530 MHz for
					Quasi-Peak

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### 1. General Description

### 1.1. Applicant

Shanghai Longcheer Technology Co., Ltd.

Building 1, No.401, Caobao Rd, Xuhui District, Shanghai, P.R.China

#### 1.2. Manufacturer

Shanghai Longcheer Technology Co., Ltd.

Building 1, No.401, Caobao Rd, Xuhui District, Shanghai, P.R.China

### 1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	Longcheer
Model Name	LCT_L6352_A01
FCC ID	WH7-LCT-L6352
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/DC-HSDPA/LTE/ WLAN 2.4GHz 802.11b/g/n HT20/ HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
IMEI	Radiation: 865843022283698 Conduction: 865843022283425
HW Version	LLDM052
SW Version	LLD0003
EUT Stage	Identical Prototype

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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### 1.4. Product Specification subjective to this standard

Product Specification subjective to this standard					
	GSM850: 824.2 MHz ~ 848.8 MHz				
	GSM1900 : 1850.2 MHz ~ 1909.8MHz				
	WCDMA Band V: 826.4 MHz ~ 846.6 MHz				
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz				
Tx Frequency	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz				
	LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz				
	LTE Band 7: 2502.5 MHz ~ 2567.5 MHz				
	LTE Band 17 : 706.5 MHz ~ 713.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GSM850: 869.2 MHz ~ 893.8 MHz				
	GSM1900: 1930.2 MHz ~ 1989.8 MHz				
	WCDMA Band V: 871.4 MHz ~ 891.6 MHz				
	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz				
	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz				
	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz				
Rx Frequency	LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz				
	LTE Band 17 : 736.5 MHz ~ 743.5 MHz				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GPS: 1.57542 GHz				
	Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)				
	WWAN : Fixed Internal Antenna				
	WLAN: PIFA Antenna				
Antenna Type	Bluetooth : PIFA Antenna				
	GPS: PIFA Antenna				
	Glonass: PIFA Antenna				
	GSM: GMSK				
	GPRS: GMSK				
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK				
	WCDMA: QPSK (Uplink)				
	HSDPA / DC-HSDPA: QPSK (Uplink)				
	HSUPA: QPSK (Uplink)				
	HSPA+: 16QAM (Downlink Only) DC-HSDPA: 64QAM				
Turns of Madulation	· ·				
Type of Modulation	LTE: QPSK / 16QAM				
	802.11b : DSSS (DBPSK / DQPSK / CCK)				
	802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)				
	Bluetooth LE : GFSK				
	Bluetooth (1Mbps): GFSK				
	Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps) : 8-DPSK				
	GPS : BPSK				
	Glonass : BPSK				
	Oluliass . DE SIN				

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#### 1.5. Modification of EUT

No modifications are made to the EUT during all test items.

#### 1.6. Test Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.			
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China			
Test Site Location	TEL: +86-0512-5790-0158			
	FAX: +86-0512-5790-0958			
Took Oiko No	Sportor	Sporton Site No. FCC Registr		
Test Site No.	CO01-KS	03CH02-KS	418269	

### 1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2009

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

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### 2. Test Configuration of Equipment Under Test

#### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

		Test Condition			
Item	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G	
1.	Charging Mode (EUT with adapter)	$\boxtimes$	$\boxtimes$	Note 1	
2.	Data application transferred mode (EUT connected with notebook)	$\boxtimes$			

#### Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

• EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

**Remark:** For signal above 1GHz, the worst case was test item 2.

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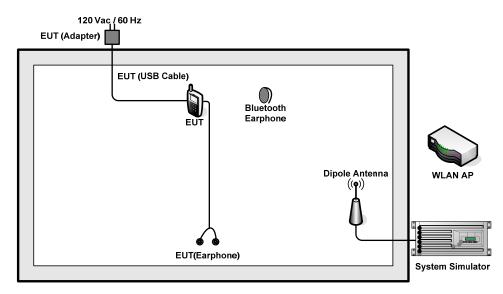
Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera <fig. 1=""></fig.>
AC Conducted	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 <fig. 1=""></fig.>
Emission		Mode 3: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Glonass Rx <fig. 2=""></fig.>
		Mode 4: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig. 3=""></fig.>
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera <fig. 1=""></fig.>
Radiated	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 <fig. 1&gt;</fig. 
Emissions < 1GHz		Mode 3: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Glonass Rx <fig. 2=""></fig.>
		Mode 4: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig. 3=""></fig.>
Radiated Emissions ≥ 1GHz	2	Mode 1: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig. 3=""></fig.>

#### Remark:

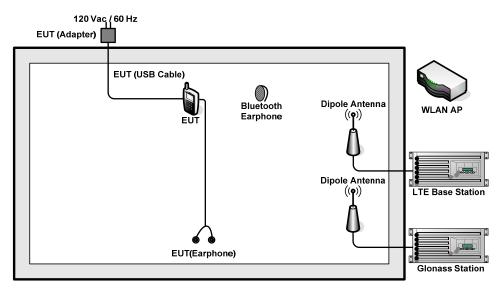
- 1. The worst case of AC is mode 4; only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 4; only the test data of this mode was reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

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### 2.2. Connection Diagram of Test System



<Fig. 1>



<Fig. 2>

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Adapter 120 Vac / 60 Hz

EUT(USB Cable)

Bluetooth
Earphone
Dipole Antenna
((o))

LTE Base Station

GPS Station

<Fig. 3>

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### 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	Glonass Station	RACELOGIC	RLLS03-2RP	FCC DoC	N/A	N/A
5.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
6.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
7.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
8.	Notebook	Lenovo	G480	PRC4	N/A	AC I/P: Unshielded, 1.8m DC O/P: Shielded, 1.8 m
9.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A

### 2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between Notebook and EUT via USB cable.
- 2. Turn on GPS/Glonass function to make the EUT receive continuous signals from GPS/Glonass station.
- 3. Execute "Video Player" to play MPEG4 files.
- 4. Turn on camera to capture images.

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#### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

#### 3.1.1 Limits of AC Conducted Emission

For equipment 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.

Frequency of emission	Conducted	limit (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 3.1.2 Measuring Instruments

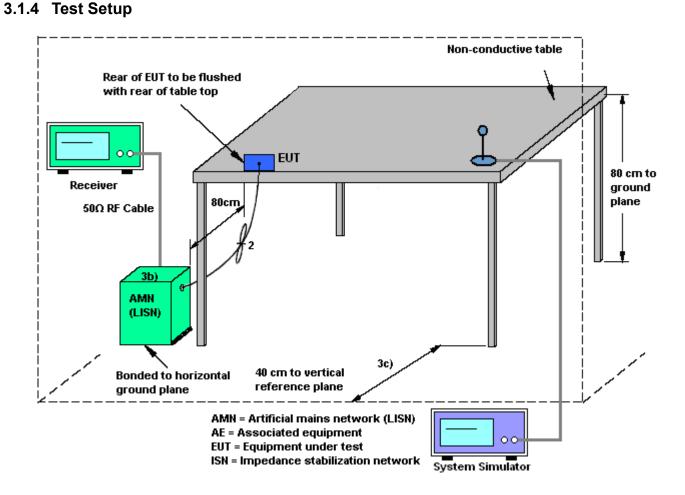
The measuring equipment is listed in the section 4 of this test report.

#### 3.1.3 Test Procedure

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

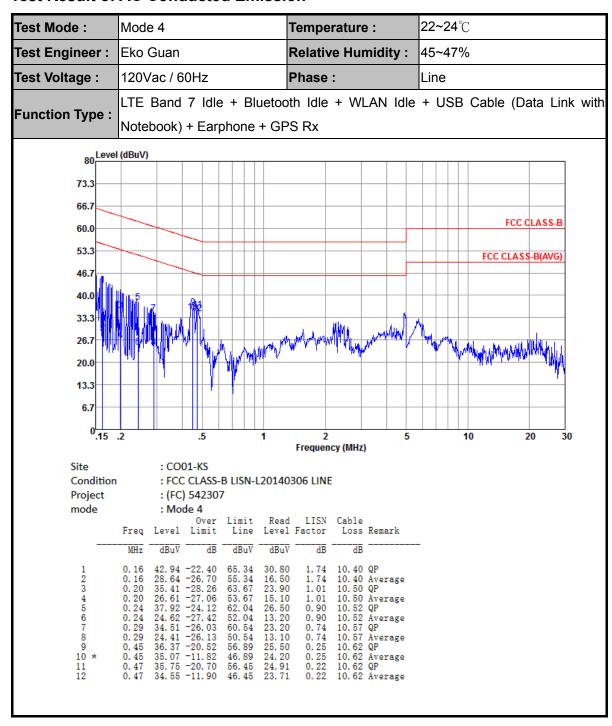
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#### 3.1.5 Test Result of AC Conducted Emission



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Test Mode :	Mode 4	Temperature :	<b>22~24</b> ℃	
Test Engineer :	Eko Guan	Relative Humidity :	45~47%	
Test Voltage :	120Vac / 60Hz	Phase :	Neutral	
Function Type :	LTE Band 7 Idle + Bluetoo	th Idle + WLAN Idle	+ USB Cable (Data Link with	
	Notebook) + Earphone + GF	PS Rx		
80 Level	I (dBuV)			
73.3				
66.7				
60.0			FCC CLASS-B	
53.3			FCC CLASS-B(AVG)	
46.7				
40.0	42			
33.3		Marine transfer which the second second second	Manager of a subdenie	
26.7			Mary Mary Mary Mary Mary Mary Mary Mary	
20.0				
13.3				
6.7				
0.15	.2 .5 1	2 5 Frequency (MHz)	10 20 30	
Site	: CO01-KS			
Condition Project	: FCC CLASS-B LISN-N2014 : (FC) 542307	0306 NEUTRAL		
mode	: Mode 4			
	Over Limit Read Freq Level Limit Line Level			
	MHz dBuV dB dBuV dBuV	/ dB dB	_	
1 2	0.16 36.30 -29.39 65.69 24.10 0.16 28.00 -27.69 55.69 15.80	) 1.82 10.38 Average		
3 4	0.18 33.32 -31.36 64.68 21.49 0.18 24.12 -30.56 54.68 12.29	9 1.38 10.45 Average		
5 6 7	0.21 31.39 -31.93 63.32 19.90 0.21 22.69 -30.63 53.32 11.20 0.24 28.75 -33.51 62.26 17.30	0.99 10.50 Average		
8 9	0.24 19.65 -32.61 52.26 8.20 0.45 34.46 -22.34 56.80 23.50	0.93 10.52 Average 0 0.34 10.62 QP		
10 11	0. 45 32. 36 -14. 44 46. 80 21. 40 0. 47 36. 14 -20. 31 56. 45 25. 20	0.34 10.62 Average 0 0.32 10.62 QP		
12 *	0. 47 35. 04 -11. 41 46. 45 24. 10	0.32 10.62 Average		

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#### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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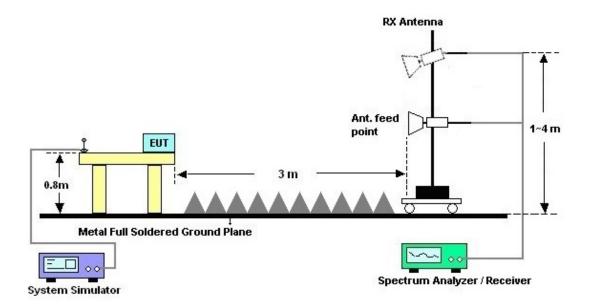
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### 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz

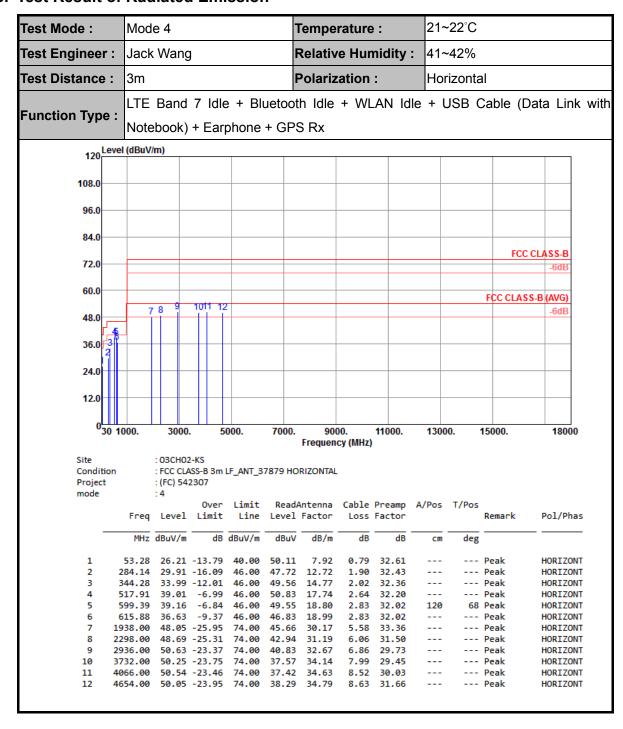


#### For radiated emissions above 1GHz



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#### 3.2.5. Test Result of Radiated Emission



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21~22°C Test Mode: Mode 4 Temperature: Test Engineer: Jack Wang **Relative Humidity:** 41~42% Test Distance: Polarization: 3m Vertical LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx 120 Level (dBuV/m) 108.0 96.0 84.0 FCC CLASS-B 72.0 60.0 FCC CLASS-B (AVG) -6dB 48.0 36.0 24.0 12.0 <sup>0</sup>30 1000. 3000. 5000. 7000. 9000. 11000. 13000. 15000. 18000 Frequency (MHz) : 03CH02-KS Condition : FCC CLASS-B 3m LF\_ANT\_37879 VERTICAL Project : (FC) 542307 mode ReadAntenna Cable Preamp A/Pos T/Pos Over Limit Freq Level Limit Line Level Factor Loss Factor Remark Pol/Phas deg MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 206.54 26.11 -17.39 43.50 46.87 10.11 1.61 32.48 --- Peak VERTICAL 2 598.42 36.07 -9.93 46.00 46.46 18.80 2.83 32.02 --- Peak VERTICAL 3 706.09 35.35 -10.65 46.00 44.16 20.02 3.12 31.95 --- Peak VERTICAL 850.62 37.13 -8.87 46.00 44.57 21.03 3.36 31.83 --- Peak VERTICAL 5! 950.53 43.80 -2.20 46.00 50.21 21.59 3.68 31.68 100 0 QP VERTICAL 1000.00 40.43 -13.57 54.00 47.06 21.30 3.73 31.66 --- Peak VERTICAL --- Peak 1892.00 47.91 -26.09 74.00 46.31 29.70 5.51 33.61 VERTICAL 2242.00 48.90 -25.10 74.00 43.31 31.14 6.01 31.56 --- Peak VERTICAL 9 2794.00 50.43 -23.57 74.00 40.83 32.40 6.67 29.47 --- Peak VERTICAL 10 3692.00 48.59 -25.41 74.00 36.21 33.98 7.91 29.51 --- Peak VERTICAL --- Peak 11 3968.00 50.09 -23.91 74.00 37.09 34.51 8.44 29.95 VERTICAL 4672.00 49.66 -24.34 74.00 37.98 34.80 8.63 31.75 --- Peak VERTICAL

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## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2015	Jun. 09, 2015	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 25, 2014	Jun. 09, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 25, 2014	Jun. 09, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 25, 2014	Jun. 09, 2015	Oct. 24, 2015	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 29, 2014	Jul. 01, 2015	Sep. 28, 2015	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Jul. 01, 2015	Sep. 24, 2015	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz~2GHz	Sep. 13, 2014	Jul. 01, 2015	Sep. 12, 2015	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2014	Jul. 01, 2015	Nov. 07, 2015	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	May 04, 2015	Jul. 01, 2015	May 03, 2016	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1GHz~26.5GHz Gain 30dB	Oct. 28, 2014	Jul. 01, 2015	Oct. 27, 2015	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Jul. 01, 2015	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jul. 01, 2015	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jul. 01, 2015	NCR	Radiation (03CH02-KS)

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### 5. Uncertainty of Evaluation

#### <u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Confidence of 95% (U = 2Uc(y))	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.3 dB
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#### <u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	5.1 dB	
Confidence of 95% (U=2Uc(y))	5.1 UB	

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