FCC Test Report

APPLICANT : TCL Communication Ltd.

EQUIPMENT : HSDPA/HSUPA/HSPA+/UMTS quad band /

GSM quad band/LTE 6 band mobile phone

Report No.: FC652006

BRAND NAME : ALCATEL

MODEL NAME : 60700

FCC ID : 2ACCJN008

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on May 20, 2016 and testing was completed on Jul. 01, 2016. 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 C63.4-2014 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.

Prepared by: James Huang / Manager

James Huang

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.

No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

Report Template No.: BU5-FC15B Version 1.1

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Report Issued Date : Jul. 08, 2016
Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC652006	Rev. 01	Initial issue of report	Jul. 08, 2016

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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	5.81 dB at	
					24.140 MHz	
					Under limit	
2.2	15.109		Dadiated Emissies	45 400 limits	DACC	3.19 dB at
3.2		15.109 Radiated Emission	< 15.109 limits	PASS	30.000 MHz for	
					Quasi-Peak	

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1. General Description

1.1. Applicant

TCL Communication Ltd.

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203

1.2. Manufacturer

TCL Communication Ltd.

5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. 201203

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	HSDPA/HSUPA/HSPA+/UMTS quad band / GSM quad band/LTE 6 band mobile phone
Brand Name	ALCATEL
Model Name	6070O
FCC ID	2ACCJN008
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM uplink is not supported)/LTE/NFC/ WLAN 2.4GHz 802.11b/g/n HT20/ WLAN 5GHz 802.11a/n HT20/HT40/ WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/ Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/ Bluetooth v4.2 LE
IMEI Code	Conduction: 357436070401059/357436070401067 Radiation: 357436070401059/357436070401067
HW Version	PIO
SW Version	V4A2W
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.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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1.4. Product Specification of Equipment Under Test

GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 5: 824.7 MHz ~ 1843.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 7: 502.5 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 715.3 MHz LTE Band 17: 580 MHz ~ 5240 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz Bluetooth: 2402 MHz ~ 2480 MHz Bluetooth: 2402 MHz ~ 2480 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM850: 869.2 MHz ~ 893.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band IV: 2112.4 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 2: 2110.7 MHz~2154.3 MHz LTE Band 5: 869.7 MHz ~ 1893.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz ~ 2893.3 MHz LTE Band 12: 729.7 MHz ~ 2480.3 MHz LTE Band 17: 736.5 MHz ~ 893.3 MHz LTE Band 17: 736.5 MHz ~ 893.5 MHz BUSL11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2450 MHz 802.11b/g/n: 2412 MHz ~ 2450 MHz S02.11b/g/n: 2412 MHz ~ 2460 MHz S02.11b/g/n: 2412 MHz ~ 2480 MHz	Standards-related Product Specification					
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WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz~1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz R02.11b/g/n: 2412 MHz ~ 2462 MHz R02.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band V: 871.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz~2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz ~ 2687.5 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz Rx Frequency LTE Band 17: 736.5 MHz ~ 743.5 MHz RX Frequency LTE Band 17: 5860 MHz ~ 5240 MHz, 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz R02.11a/ac/n: 5180 MHz ~ 5240 MHz, 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz Bluetooth: 2402 MHz ~ 25580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)		GSM1900 : 1850.2 MHz ~ 1909.8MHz				
WCDMA Band II : 1852.4 MHz ~ 1907.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band IV: 871.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 2152.6 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 LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz ~ 2687.5 MHz LTE Band 7: 2622.5 MHz ~ 2468 MHz RX Frequency RX Frequency LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz Bluetooth: 2402 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
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Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 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 IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz UTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz~2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
Rx Frequency NFC: 13.56 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 IV: 2112.4 MHz ~ 2152.6 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 LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz ~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz LTE Band 17: 736.5 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
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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 LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz ~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz~2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 12: 729.7 MHz ~ 743.5 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
LTE Band 4: 2110.7 MHz~2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz LTE Band 17: 736.5 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz LTE Band 17: 736.5 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
Rx Frequency LTE Band 7: 2622.5 MHz~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
Rx Frequency LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
LTE Band 17 : 736.5 MHz ~ 743.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)	Dy Francis					
802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)	RX Frequency					
802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
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5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)		· ·				
Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=−7,−6,−5,0,,6)						
GPS : 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6)						
INCL. LATINICAL		NFC : 13.56 MHz				

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Standards-related Product Specification					
Antenna Type	WWAN: LDS + metal frame Antenna WLAN: LDS + metal frame Antenna Bluetooth: LDS + metal frame Antenna GPS/Glonass: LDS + metal frame Antenna NFC: Loop Antenna				
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA/DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+:16QAM(uplink is not supported) DC-HSDPA: 64QAM LTE: QPSK / 16QAM 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac: OFDM (BPSK / QPSK / 16QAM / 256QAM) Bluetooth v4.0 LE: GFSK Bluetooth v4.2 LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps): m/4-DQPSK Bluetooth (3Mbps): 8-DPSK GPS/Glonass: BPSK NFC: ASK				

1.5. Specification of Accessory

	Specification of Accessory					
	Brand Name	ALCATEL onetouch	Model Name	QC10US		
AC Adapter	Power Rating	I/P: 100-240Vac, 50/60Hz, 500mA, O/P: 5.0Vdc, 2A 9.0Vdc, 1.67A				
	Manufacturer	BYD	P/N	CBA0060AG0C1		
Dettem	Brand Name	ALCATEL onetouch	Model Name	TLp030F2		
Battery	Power Rating	3.84Vdc, 3000mAh				
	Manufacturer	SCUD	S/N	C3000022C2		
	Brand Name	N/A	Model Name	CDA0000043C8		
USB Cable 1	Signal Line Type	1.00m shielded without core				
	Manufacturer	PUAN	P/N	N/A		
	Brand Name	N/A	Model Name	CDA0000043C2		
USB Cable 2	Signal Line Type	1.00m shielded without core				
	Manufacturer	Shenghua	P/N	N/A		
Farnhana	Brand Name	N/A	Model Name	CCB0047A10CC CCB0047B10CC		
Earphone	Signal Line Type	1.38m non-shielded without core				
	Manufacturer	Harman	P/N	N/A		

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1.6. Modification of EUT

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

1.7. 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 Site No.	Sporton Site No. FCC Registration N		FCC Registration No.		
Test Site No.	CO01-KS	03CH02-KS	418269		

Note: The test site complies with ANSI C63.4 2014 requirement.

1.8. 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 C63.4-2014

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 C63.4-2014 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.

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

Abbreviations:

EMI AC: AC conducted emissions

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

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

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1(Charging from Adapter) + Earphone + Camera (Rear) + SIM 1 <fig.1></fig.1>
		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Charging from Adapter) + Earphone + Camera (Front) + SIM 2 <fig.1></fig.1>
AC Conducted	1/2	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 1(Charging from Adapter) + Earphone + MPEG4 + SIM 1 <fig.1></fig.1>
Emission	1/2	Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1(Charging from Adapter) + Earphone + NFC On + SIM 2 <fig.1></fig.1>
		Mode 5 : LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1(Data Link with Notebook) + Earphone + Glonass Rx + SIM 1 <fig.2></fig.2>
		Mode 6: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Data Link with Notebook) + Earphone + GPS Rx + SIM 2 <fig.2></fig.2>
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1(Charging from Adapter) + Earphone + Camera (Rear) + SIM 1 <fig.1></fig.1>
	z 1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Charging from Adapter) + Earphone + Camera (Front) + SIM 2 <fig.1></fig.1>
Radiated		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Charging from Adapter) + Earphone + MPEG4 + SIM 1 <fig.1></fig.1>
Emissions < 1GHz		Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Charging from Adapter) + Earphone + NFC On + SIM 2 <fig.1></fig.1>
		Mode 5: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1(Data Link with Notebook) + Earphone + Glonass Rx + SIM 1 <fig.2></fig.2>
		Mode 6: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Data Link with Notebook) + Earphone + GPS Rx + SIM 2 <fig.2></fig.2>

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Test Items	EUT Configure Mode	Function Type
Radiated Emissions ≥ 1GHz	1/2	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Charging from Adapter) + Earphone + MPEG4 + SIM 1 <fig.1> Mode 2: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Data Link with Notebook) + Earphone + GPS Rx + SIM 2 <fig.2></fig.2></fig.1>

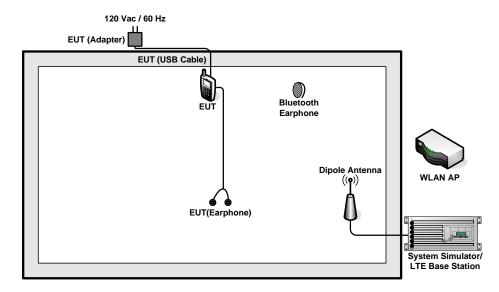
Remark:

- 1. The worst case of AC is mode 3, and the USB Link mode of AC is mode 6, the test data of these modes were reported.
- The worst case of RE < 1G is mode 3, and the USB Link mode of RE is mode 6, the test data of these modes were reported.
- **3.** Data Link with Notebook means data application transferred mode between EUT and Notebook.

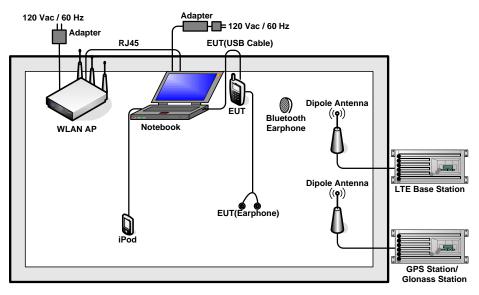
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2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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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	Anritus	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	Glonass Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
6.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
7.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 2.7 m with Core
8.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 0.9 m DC O/P: Shielded, 1.8 m
9.	Notebook	Dell	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
10.	Bluetooth Earphone	Lenovo	LBH-301	2010DP1340	N/A	N/A
11.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
12.	SD Card	Kingston	4GB	N/A	N/A	N/A
13.	SD Card	SanDisk	Uitra	FCC DoC	N/A	N/A
14.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A

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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. Execute "Video Player" to play MPEG4 files.
- 3. Turn on camera to capture images.
- 4. Turn on GPS/Glonass function to make the EUT receive continuous signals from GPS/Glonass station.
- 5. Turn on NFC function.

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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

^{*}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.

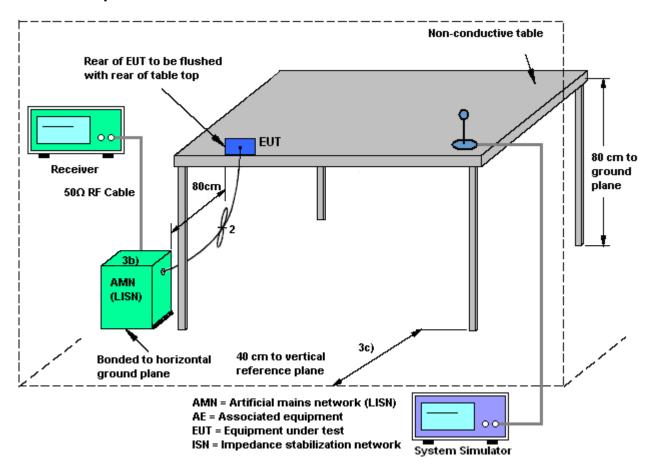
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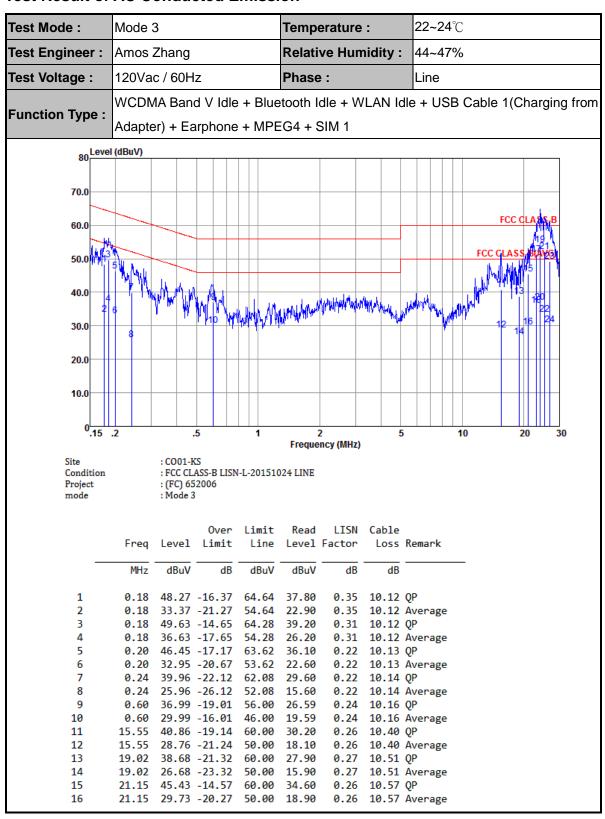
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission



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Test Mode :	Mode 3		Temperatur	e:	22~24 ℃		
Test Engineer :	Amos Zhan	g	Relative Hu	midity:	44~47%	-47%	
Test Voltage :	120Vac / 60	Hz	Phase :		Line		
	WCDMA Ba	nd V Idle + Blue	etooth Idle + \	WLAN Idl	e + USB Ca	able 1(Charging from	
Function Type :		Earphone + MPE				, 00	
80 Level	(dBuV)						
70.0							
22.2						FCC CLASS,B	
60.0						Mag V	
50.0	5 1 1					FCC GLASS, BLAVG	
40.0		M A. I			1.4	1 1 3 420	
2	∮ ^γ ′′ [™] \	Y MY IY Vara llana AA	K. S. P. P. H. J. H. P. L. P. S. P.	(ANTHINANAL ANT	hadropolyment and playbon	22	
30.0	8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M 1		 	12 14	
20.0							
10.0							
0.15	.2	.5 1	2	5	10	20 30	
Site	: CO01	-KC	Frequency (MH:	L)			
Condition	: FCC (CLASS-B LISN-L-201510	024 LINE				
Project mode	: Mode	652006 e 3					
		Over Limit	Read LISM	N Cable			
	Freq Leve		Level Factor		lemark		
_	MHz dBu	V dB dBuV	dBuV dE	3 dB			
17	23.02 51.1	7 -8.83 60.00	40.30 0.24	4 10.63 Q)P		
18	23.02 36.0	7 -13.93 50.00	25.20 0.24	4 10.63 A	verage		
19 * 20		9 -5.81 60.00 9 -12.91 50.00		3 10.66 Q 3 10.66 A			
20	25.32 52.1						
22	25.32 33.5			2 10.70 Q			
23		8 -10.72 60.00	38.31 0.22	2 10.75 (P		
24	26.84 30.2	8 -19.72 50.00	19.31 0.22	2 10.75 A	verage		

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22~24℃ Test Mode: Mode 3 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 44~47% 120Vac / 60Hz Phase: Test Voltage: Neutral WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 1(Charging from Function Type: Adapter) + Earphone + MPEG4 + SIM 1 80 Level (dBuV) 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0<mark>.15</mark> .5 5 10 Frequency (MHz) : CO01-KS Site Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL Project : (FC) 652006 mode : Mode 3 0ver Limit Read LISN Cable Freq Level Limit line Level Factor Loss Remark MHz dBuV dBuV dB dBuV dB dB 1 0.18 44.63 -19.74 64.37 34.20 0.31 10.12 QP 0.18 32.03 -22.34 54.37 10.12 Average 2 21.60 0.31 0.50 35.78 -20.22 56.00 25.30 0.32 10.16 QP 4 0.50 24.38 -21.62 46.00 13.90 0.32 10.16 Average 5 0.59 40.79 -15.21 56.00 30.30 0.33 10.16 QP 6 0.59 26.79 -19.21 46.00 16.30 0.33 10.16 Average 2.04 37.72 -18.28 56.00 27.20 7 0.38 10.14 QP 8 2.04 26.82 -19.18 46.00 16.30 0.38 10.14 Average 9 2.31 39.32 -16.68 56.00 28.79 0.38 10.15 QP 10 27.32 -18.68 46.00 2.31 16.79 0.38 10.15 Average 11 2.76 39.82 -16.18 56.00 29.30 0.37 10.15 QP

2.76 26.82 -19.18 46.00 16.30

3.29 38.83 -17.17 56.00 28.30

3.29 25.13 -20.87 46.00 14.60

60.00

38.10

27.10

48.73 -11.27

13.84 37.73 -12.27 50.00

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12 13

14

15

16

13.84

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0.37 10.15 Average

10.16 QP

10.36 QP

10.16 Average

10.36 Average

0.37

0.37

0.27

0.27

Report Template No.: BU5-FC15B Version 1.1

22~24℃ Test Mode: Mode 3 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 44~47% 120Vac / 60Hz Phase: Test Voltage: Neutral WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 1(Charging from Function Type: Adapter) + Earphone + MPEG4 + SIM 1 80 Level (dBuV) 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.15 .2 20 Frequency (MHz) Site : CO01-KS Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL Project : (FC) 652006 mode : Mode 3 :357436070401059 #17 IMEI : From Mode 1 Worse Over Limit Read LISN Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dΒ 15.23 47.56 -12.44 60.00 36.90 0.27 10.39 QP 17 15.23 34.96 -15.04 50.00 24.30 0.27 10.39 Average 16.14 47.89 -12.11 60.00 37.21 19 0.26 10.42 QP 20 16.14 36.29 -13.71 50.00 25.61 0.26 10.42 Average 21 * 17.38 51.62 -8.38 60.00 40.90 0.26 10.46 QP 0.26 10.46 Average 17.38 39.32 -10.68 50.00 28.60 22 20.59 41.70 -18.30 60.00 30.90 23 0.25 10.55 QP 24 20.59 29.10 -20.90 50.00 18.30 0.25 10.55 Average 25 22.54 48.66 -11.34 60.00 37.81 0.24 10.61 QP

22.11

0.24

0.24

0.24

0.24

0.24 10.67 QP

10.61 Average

10.67 Average

10.73 Average

10.73 QP

26

27

28

29

30

24.53

26.28

22.54 32.96 -17.04 50.00

51.21 -8.79 60.00 40.30

29.87 -20.13 50.00 18.90

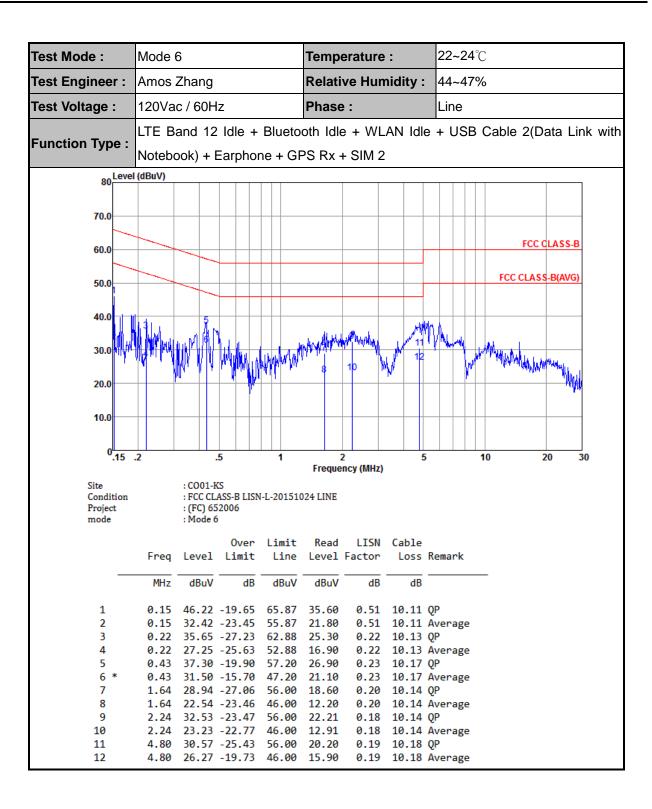
24.53 33.81 -16.19 50.00 22.90

26.28 49.77 -10.23 60.00 38.80

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22~24℃ Test Mode: Mode 6 Temperature: Test Engineer: Amos Zhang **Relative Humidity:** 44~47% Neutral Test Voltage: 120Vac / 60Hz Phase: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM 2 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 FCC CLASS-B(AVG) 50.0 40.0 Jahren James Jahren 30.0 20.0 10.0 0.15 .2 .5 5 30 Frequency (MHz) Site : CO01-KS : FCC CLASS-B LISN-N-20151024 NEUTRAL Condition Project : (FC) 652006 mode : Mode 6 0ver Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 0.20 32.04 -31.41 63.45 21.60 0.31 10.13 QP 1 0.20 25.94 -27.51 53.45 15.50 0.31 10.13 Average 0.43 29.79 -27.54 57.33 19.30 3 0.32 10.17 QP 4 0.43 25.09 -22.24 47.33 14.60 0.32 10.17 Average 5 0.49 36.28 -19.86 56.14 25.80 0.32 10.16 QP 6 0.49 32.78 -13.36 46.14 22.30 0.32 10.16 Average 35.12 -20.88 56.00 7 2.22 24.60 0.38 10.14 QP 26.82 -19.18 46.00 16.30 0.38 10.14 Average 8 2.22 9 2.71 34.12 -21.88 56.00 23.60 0.37 10.15 QP 24.12 -21.88 46.00 10.15 Average 10 13.60 0.37 2.71 11 4.80 33.34 -22.66 56.00 22.80 0.36 10.18 QP 29.14 -16.86 46.00 18.60 10.18 Average 12 4.80 0.36

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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 μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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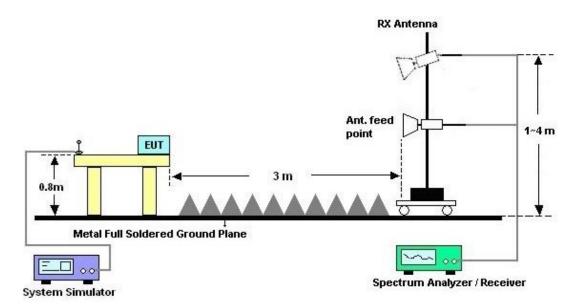
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

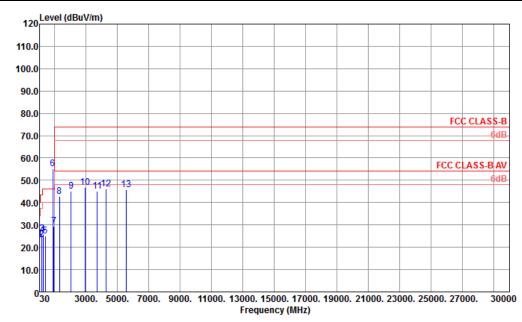


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3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 3	Temperature :	21~22°C					
Test Engineer :	Wiard Chen	Relative Humidity :	41~42%					
Test Distance :	3m	Polarization :	Horizontal					
Eupotion Type	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Charging							
Function Type :	Adapter) + Earphone + MPEG4 + SIM 1							
Remark :	#6 is system simulator signa	al which can be ignored	I.					



Site : 03CH02-KS

Condition : FCC CLASS-B 3m 966-02 LF ANT HORIZONTAL

Project : (FC) 652006 Mode : 3

IMEI : 357436070401059

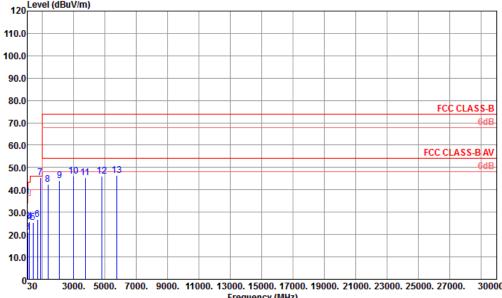
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	30.00	23.34	-16.66	40.00	28.53	25.80	0.11	31.10	112	321	Peak	HORIZONT
2	158.79	23.28	-20.22	43.50	36.11	17.23	0.34	30.40			Peak	HORIZONT
3	186.06	26.05	-17.45	43.50	40.12	15.94	0.39	30.40			Peak	HORIZONT
4	255.72	25.88	-20.12	46.00	38.44	17.45	0.49	30.50			Peak	HORIZONT
5	407.80	25.00	-21.00	46.00	29.57	25.17	0.93	30.67			Peak	HORIZONT
6 *	881.70	55.17			56.66	27.45	1.59	30.53			Peak	HORIZONT
7	936.30	29.27	-16.73	46.00	29.91	28.18	1.71	30.53			Peak	HORIZONT
8	1314.00	42.94	-31.06	74.00	47.62	28.45	3.33	36.46			Peak	HORIZONT
9	2052.00	45.12	-28.88	74.00	44.17	30.67	4.90	34.62			Peak	HORIZONT
10	2958.00	46.77	-27.23	74.00	39.87	32.47	3.04	28.61			Peak	HORIZONT
11	3711.00	45.16	-28.84	74.00	35.86	34.30	6.34	31.34			Peak	HORIZONT
12	4254.00	46.03	-27.97	74.00	36.42	35.14	6.17	31.70			Peak	HORIZONT
13	5535.00	45.78	-28.22	74.00	40.07	35.30	7.31	36.90			Peak	HORIZONT

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Report No.: FC652006

Test Mode :	Mode 3	Temperature :	21~22°C				
Test Engineer :	Wiard Chen	Relative Humidity :	41~42%				
Test Distance :	3m	Polarization :	Vertical				
Function Type	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 2(Charging						
Function Type :	Adapter) + Earphone + MPEG4 + SIM 1						
Remark :	rk: #7 is system simulator signal which can be ignored.						
120 Level (dBuV/m)							



: 03CH02-KS Site

Condition : FCC CLASS-B 3m 966-02 LF ANT VERTICAL

Project : (FC) 652006 Mode : 3 : 357436070401059 IMEI

Over Limit ReadAntenna Freq Level Limit Line Level Factor ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas Loss Factor dB dBuV/m MHz dBuV/m dBuV dB/m dВ dB deg 30.00 36.81 -3.19 40.00 42.00 25.80 0.11 31.10 100 Ø QP VERTICAL 1 ! 25.63 -14.37 40.00 21.10 0.13 --- Peak 41.34 35.26 30.86 VERTICAL 21.09 -18.91 40.00 37.99 --- Peak VERTICAL 185.52 25.69 -17.81 43.50 39.76 15.94 0.39 30.40 ------ Peak VERTICAL 25.28 -20.72 ------ Peak 5 398.70 46.00 29.95 25.11 0.92 30.70 VERTICAL 694.10 26.70 -19.30 46.00 29.32 --- Peak VERTICAL 6 26.61 1.16 30.39 7 45.50 27.46 1.59 --- Peak VERTICAL 46.98 1364.00 42.32 -31.68 74.00 46.71 28.52 3.35 36.26 --- Peak VERTICAL 2096.00 44.17 -29.83 46.06 -27.94 74.00 42.69 30.79 5.20 34.51 --- Peak VERTICAL 2976.00 74.00 39.06 32.52 3.09 28.61 --- Peak VERTICAL 10 3726.00 45.39 -28.61 74.00 36.05 34.37 6.39 31.42 --- Peak VERTICAL 11 46.17 -27.83 74.00 37.96 35.02 6.09 32.90 --- Peak 12 4785.00 VERTICAL 13 5754.00 46.46 -27.54 74.00 40.60 35.24 6.91 36.29 --- Peak VERTICAL

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Test Mode :	Mode 6		Tempera	iture :	21~22°C				
Test Engineer :	Wiard Chen		Relative	Humidity:	41~42%				
Test Distance :	3m		Polariza	tion :	Horizonta	ı			
Function Type :	LTE Band 12 Idle Notebook) + Earph				+ USB Ca	able 2(D	ata Link with		
Remark :	#6 is system simul	6 is system simulator signal which can be ignored.							
120 Level	(dBuV/m)								
110.0									
100.0									
90.0									
80.0						FCC	CLASS-B		
70.0							6dB		
60.0 6						FCC CLA	ASS-B AV		
50.0	9 10 11 12 13						6dB		
40.0									
30.0									
20.0									
10.0									
030	3000. 5000. 7000. 9	000. 11000. 1	3000. 15000 Frequency). 17000. 19000. 2 (MHz)	1000. 23000.	25000. 2700	0. 30000		
Site Condition Project Mode	: 03CH02-KS : FCC CLASS : (FC) 65200 : 6	-B 3m 966-02 06	LF ANT HO	DRIZONTAL					
	Over Freq Level Limit	Limit Read Line Level		Cable Preamp A Loss Factor	/Pos T/Pos	Remark	Pol/Phas		
	MHz dBuV/m dB dl	BuV/m dBuV	/ dB/m	dB dB	cm deg				
	84.00 27.73 -12.27 4 65.81 33.69 -9.81 4			0.21 30.50 0.35 30.40		Peak Peak	HORIZONT		
	40.87 37.02 -8.98			0.49 30.48		Peak	HORIZONT HORIZONT		
	54.10 36.72 -9.28			0.50 30.50		Peak	HORIZONT		
	44.80 38.36 -7.64 4 38.90 56.49		20.10	0.71 30.59 1.32 30.48		Peak Peak	HORIZONT HORIZONT		
	03.40 31.49 -14.51			1.71 30.59		Peak	HORIZONT		
	92.00 42.94 -31.06			3.33 36.56		Peak	HORIZONT		
	68.00 44.85 -29.15			5.65 34.36		Peak	HORIZONT		
	76.00 45.48 -28.52		32.52	3.09 28.61		Peak	HORIZONT		
	56.00 47.12 -26.88		34.93 35.03	6.24 31.79		Peak	HORIZONT		
	67.00 46.90 -27.10 1 50.00 46.84 -27.16			6.00 32.90 6.35 35.22		Peak Peak	HORIZONT HORIZONT		
15 50.	20.50 10.04 27.120					. can	· IONIZZONI		

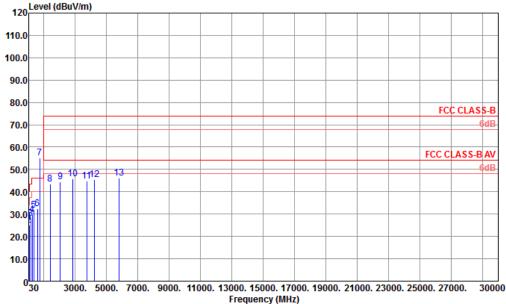
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FCC Test Report Report No.: FC652006

Test Mode :	Mode 6			Te	Temperature :			21~22°C						
Test Engineer :	Wiard Ch	en		R	Relative Humidity :			41~42%						
Test Distance :	3m	P	olariz	ation	ı :		Vertical							
Eunatian Type	LTE Band	d 12 Idle	+ Blue	tooth	n Idle	+ W	LAN	Idle	+ USE	3 Cal	ole 2(Data	Link	with
Function Type :	Notebook	Notebook) + Earphone + GPS Rx + SIM 2												
Remark :	#7 is syst	em simul	ator sig	ınal v	vhich	can t	oe ign	ored						
120 Leve	l (dBuV/m)													
120														
110.0													\vdash	



Site Condition : 03CH02-KS

: FCC CLASS-B 3m 966-02 LF ANT VERTICAL

Project : (FC) 652006

Mode

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor		T/Pos	Remark	Pol/Phas
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	32.43	26.84	-13.16	40.00	32.41	25.30	0.11	30.98	155	360	Peak	VERTICAL
2	55.11	25.23	-14.77	40.00	41.86	13.90	0.15	30.68			Peak	VERTICAL
3	153.12	27.95	-15.55	43.50	40.51	17.51	0.33	30.40			Peak	VERTICAL
4	254.10	29.90	-16.10	46.00	42.47	17.43	0.50	30.50			Peak	VERTICAL
5	344.80	31.62	-14.38	46.00	41.40	20.10	0.71	30.59			Peak	VERTICAL
6	598.20	32.51	-13.49	46.00	37.49	24.32	0.90	30.20			Peak	VERTICAL
7 *	738.20	55.01			57.84	26.34	1.31	30.48			Peak	VERTICAL
8	1400.00	43.52	-30.48	74.00	47.63	28.60	3.35	36.06			Peak	VERTICAL
9	2044.00	44.36	-29.64	74.00	43.60	30.62	4.76	34.62			Peak	VERTICAL
10	2826.00	45.68	-28.32	74.00	38.56	32.14	2.76	27.78			Peak	VERTICAL
11	3723.00	44.72	-29.28	74.00	35.43	34.37	6.34	31.42			Peak	VERTICAL
12	4221.00	45.33	-28.67	74.00	35.67	35.12	6.38	31.84			Peak	VERTICAL
13	5781.00	45.98	-28.02	74.00	40.04	35.22	6.75	36.03			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 Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 10, 2015	Jun. 29, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz; Max 30dBm	Sep. 10, 2015	Jun. 29, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25MHz-2GHz	Mar. 12, 2016	Jun. 29, 2016	Mar. 11, 2017	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 07, 2015	Jun. 29, 2016	Nov. 06, 2016	Radiation (03CH02-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz~40Ghz	Oct. 10, 2015	Jun. 29, 2016	Oct. 09, 2016	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz ~1000MHz / 32 dB	Apr. 22, 2016	Jun. 29, 2016	Apr. 21, 2017	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 24, 2015	Jun. 29, 2016	Oct. 23, 2016	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18GHz~40GHz	Aug. 27, 2015	Jun. 29, 2016	Aug. 26, 2016	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Jun. 29, 2016	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jun. 29, 2016	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jun. 29, 2016	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 29, 2016	Jul. 01, 2016	Apr. 28, 2017	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	Jul. 01, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	Jul. 01, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	Jul. 01, 2016	Oct. 23, 2016	Conduction (CO01-KS)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of	2.3dB
Confidence of 95% (U = 2Uc(y))	2.3ub

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Magazzina Ungartainty for a Laval of	
Measuring Uncertainty for a Level of	5.1dB
Confidence of 95% (U = 2Uc(y))	3.1db

Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of	4.5dB
Confidence of 95% (U = 2Uc(y))	

Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of	E 4 d D
Confidence of 95% (U = 2Uc(y))	5.1dB

SPORTON INTERNATIONAL (KUNSHAN) INC.

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