



# FCC Test Report

**APPLICANT** : ZTE CORPORATION  
**EQUIPMENT** : LTE/WCDMA Tablet  
**BRAND NAME** : ZTE  
**MODEL NAME** : K92  
**FCC ID** : SRQ-K92  
**STANDARD** : FCC 47 CFR FCC Part 15 Subpart B  
**CLASSIFICATION** : Certification

The product was received on Mar. 10, 2017 and testing was completed on Apr. 04, 2017. 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

Approved by: Jones Tsai / Manager



**Sporton International (KunShan) INC.**

**No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China**



# TABLE OF CONTENTS

**REVISION HISTORY..... 3**

**SUMMARY OF TEST RESULT ..... 4**

**1. GENERAL DESCRIPTION ..... 5**

    1.1. Applicant..... 5

    1.2. Manufacturer ..... 5

    1.3. Product Feature of Equipment Under Test ..... 5

    1.4. Product Specification of Equipment Under Test ..... 6

    1.5. Modification of EUT ..... 7

    1.6. Test Location ..... 7

    1.7. Applicable Standards ..... 7

**2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST ..... 8**

    2.1. Test Mode ..... 8

    2.2. Connection Diagram of Test System ..... 10

    2.3. Support Unit used in test configuration and system ..... 12

    2.4. EUT Operation Test Setup ..... 13

**3. TEST RESULT ..... 14**

    3.1. Test of AC Conducted Emission Measurement ..... 14

    3.2. Test of Radiated Emission Measurement ..... 20

**4. LIST OF MEASURING EQUIPMENT ..... 26**

**5. UNCERTAINTY OF EVALUATION ..... 27**

**APPENDIX A. SETUP PHOTOGRAPHS**



### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC731003	Rev. 01	Initial issue of report	May 08, 2017



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 12.20 dB at 0.158 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 5.22 dB at 40.800 MHz



# 1. General Description

## 1.1. Applicant

**ZTE CORPORATION**

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P. R. China

## 1.2. Manufacturer

**ZTE CORPORATION**

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P. R. China

## 1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE/WCDMA Tablet
Brand Name	ZTE
Model Name	K92
FCC ID	SRQ-K92
EUT supports Radios application	WCDMA/HSPA/DC-HSDPA/HSPA+ (16QAM uplink is not supported)/LTE/ WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/ Bluetooth v4.1 LE/Bluetooth v4.2 LE
IMEI Code	Conduction: 863862030008394 Radiation: 863862030008410
HW Version	K92HWB01
SW Version	K92V1.0.0B01
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.

### 1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	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 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 12 : 699.7 MHz ~ 715.3 MHz LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
<b>Rx Frequency</b>	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 29 : 717 MHz ~ 728 MHz LTE Band 30 : 2352.5 MHz ~ 2362.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 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)
<b>Antenna Type</b>	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS/Glonass: PIFA Antenna
<b>Type of Modulation</b>	WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (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 / 64QAM /256QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi$ /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS/Glonass : BPSK



### 1.5. Modification of EUT

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

### 1.6. Test Location

<b>Test Site</b>	Sporton International (KunShan) INC.		
<b>Test Site Location</b>	No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>		<b>FCC Registration No.</b>
	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 C63.4-2014

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



## 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).

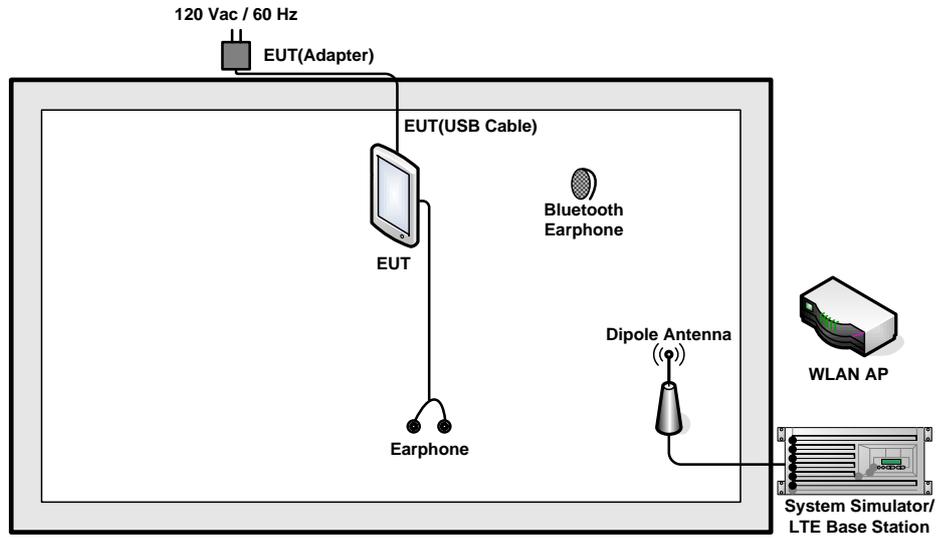
Test Items	Function Type
AC Conducted Emission	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera(Rear) <Fig.1>
	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Charging from Adapter) + Earphone + Camera(Front) <Fig.1>
	Mode 3: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4<Fig.1>
	Mode 4: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Charging from Adapter) + Earphone + Glonass Rx<Fig.2>
	Mode 5: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx<Fig.3>
Radiated Emissions < 1GHz	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera(Rear) <Fig.1>
	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Charging from Adapter) + Earphone + Camera(Front) <Fig.1>
	Mode 3: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4<Fig.1>
	Mode 4: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Charging from Adapter) + Earphone + Glonass Rx<Fig.2>
	Mode 5: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx<Fig.3>
Radiated Emissions ≥ 1GHz	Mode 1: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Charging from Adapter) + Earphone + Glonass Rx<Fig.2>
	Mode 2: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx<Fig.3>



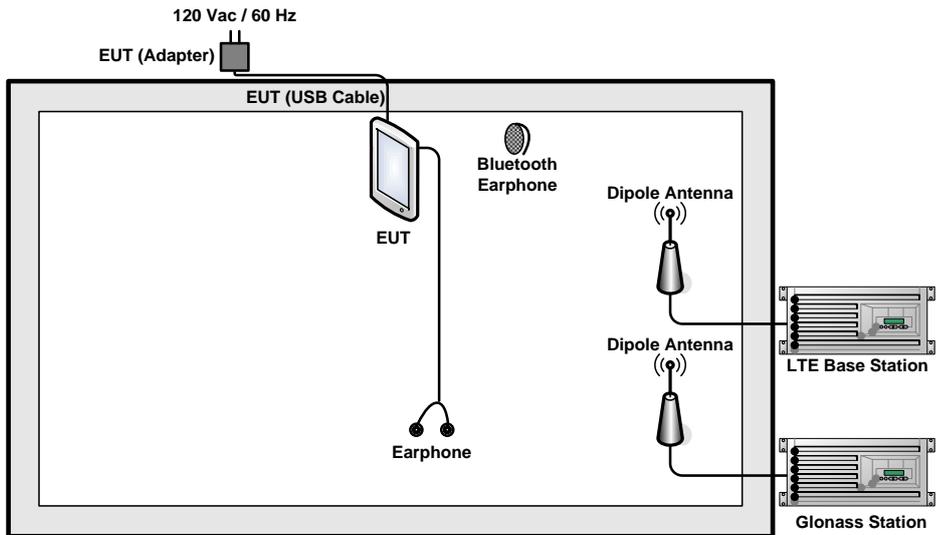
**Remark:**

1. The worst case of AC is mode 1; and the USB link mode of AC is mode 5, the test data of these modes were reported.
2. The worst case of RE < 1G is mode 4; and the USB Link mode of RE is mode 5, the test data of these modes were reported.
3. Data Link with Notebook means data application transferred mode between EUT and Notebook.

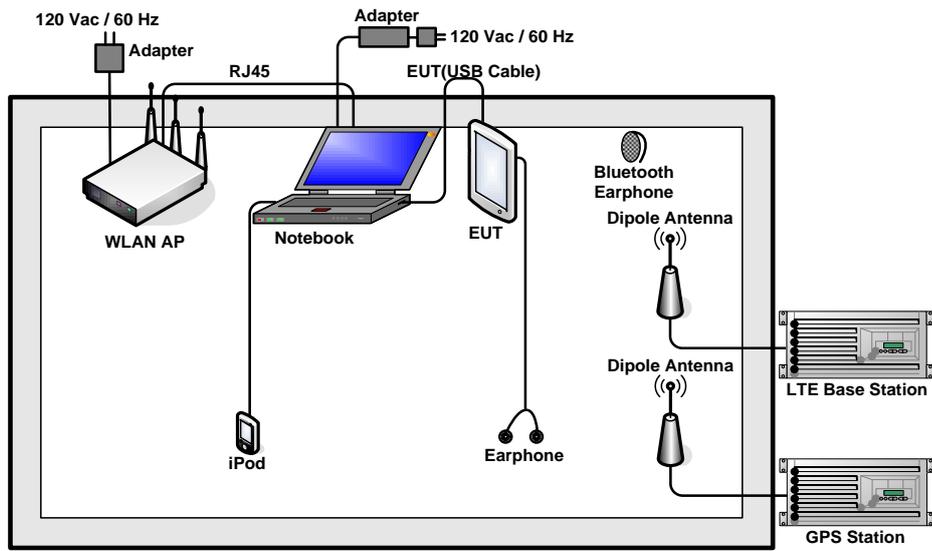
## 2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>



<Fig.3>

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

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	Glonass Station	RACELOGIC	RLLS03-2P	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-link	DIR855	KA2DIR855A2	N/A	Unshielded, 1.8 m
5.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded, 1.8 m
6.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
7.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
8.	Notebook	DELL	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
9.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
10.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
11.	Earphone	Lenovo	LH102	N/A	N/A	Unshielded, 1.2 m
12.	Earphone	Lenovo	SH100	N/A	N/A	N/A
13.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
14.	SD Card	Kingston	4GB	N/A	N/A	N/A
15.	SD Card	SanDisk	Ultra	N/A	N/A	N/A



## **2.4. EUT Operation Test Setup**

The EUT was in WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is 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.



### 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 (MHz)	Conducted limit (dBuV)	
	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.

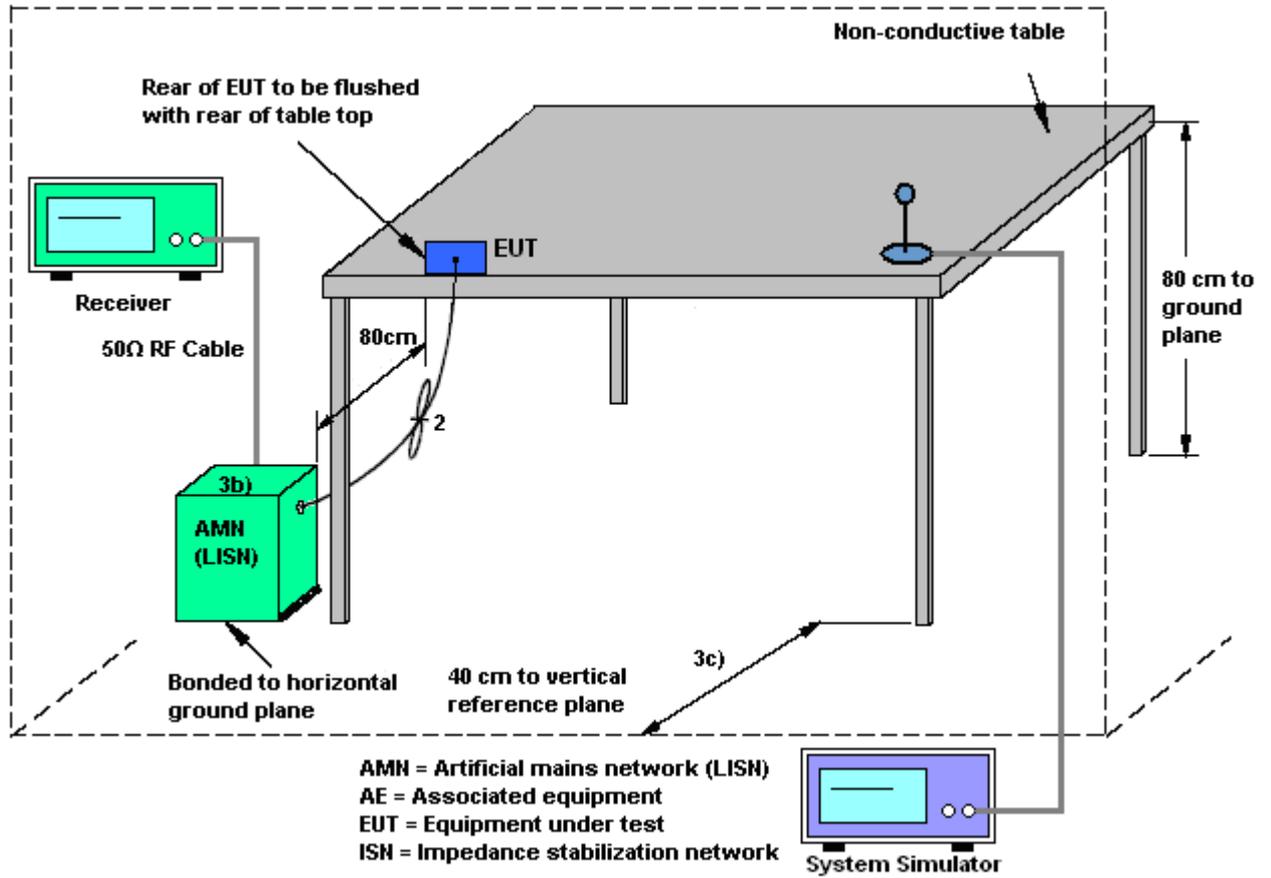
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedure

1. 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.

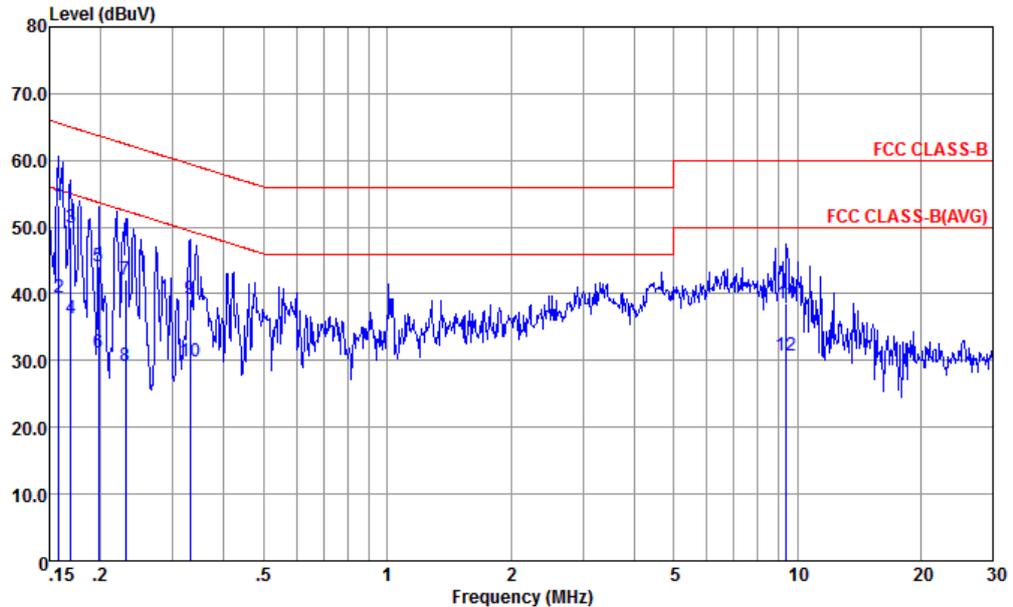
### 3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	42~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera(Rear)		

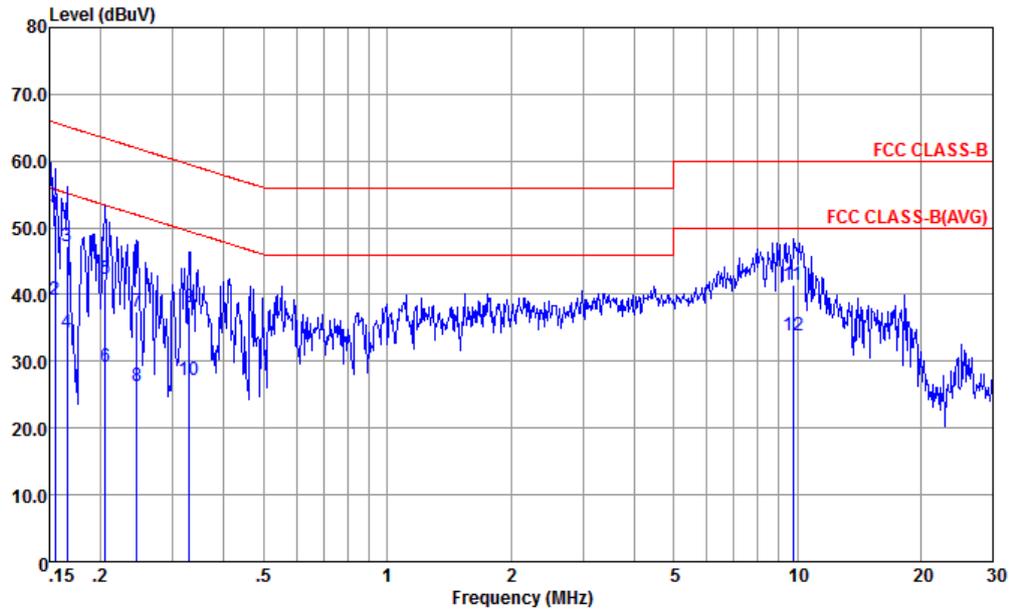


Site : CO01-KS  
 Condition : FCC CLASS-B LISN-L-20151024 LINE  
 Project : (FC) 731003  
 mode : Mode 1  
 : 863862030008394 #15

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.158	53.36	-12.20	65.56	42.50	0.48	10.38	QP
2	0.158	39.46	-16.10	55.56	28.60	0.48	10.38	Average
3	0.169	49.87	-15.12	64.99	39.10	0.40	10.37	QP
4	0.169	36.37	-18.62	54.99	25.60	0.40	10.37	Average
5	0.198	44.16	-19.55	63.71	33.59	0.23	10.34	QP
6	0.198	31.16	-22.55	53.71	20.59	0.23	10.34	Average
7	0.230	42.13	-20.31	62.44	31.60	0.22	10.31	QP
8	0.230	29.13	-23.31	52.44	18.60	0.22	10.31	Average
9	0.330	39.26	-20.18	59.44	28.79	0.23	10.24	QP
10	0.330	29.76	-19.68	49.44	19.29	0.23	10.24	Average
11	9.401	38.48	-21.52	60.00	27.90	0.25	10.33	QP
12	9.401	30.68	-19.32	50.00	20.10	0.25	10.33	Average



Test Mode :	Mode 1	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	42~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera(Rear)		

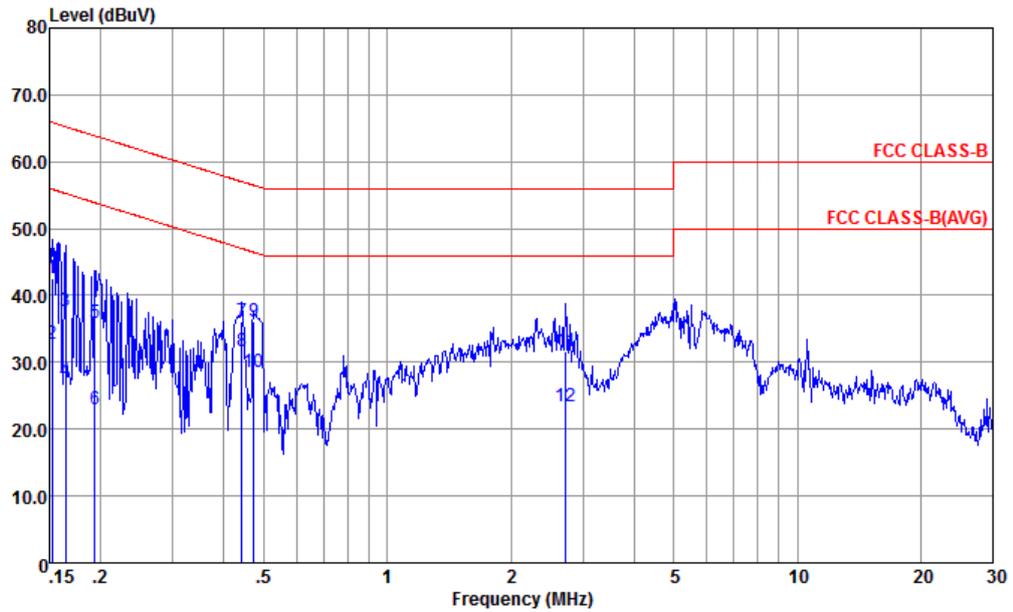


Site : CO01-KS  
 Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL  
 Project : (FC) 731003  
 mode : Mode 1  
 : 863862030008394 #15

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.155	51.99	-13.75	65.74	41.30	0.30	10.39	QP
2	0.155	39.29	-16.45	55.74	28.60	0.30	10.39	Average
3	0.166	47.28	-17.88	65.16	36.61	0.30	10.37	QP
4	0.166	34.28	-20.88	55.16	23.61	0.30	10.37	Average
5	0.205	42.24	-21.16	63.40	31.60	0.31	10.33	QP
6	0.205	29.24	-24.16	53.40	18.60	0.31	10.33	Average
7	0.246	37.51	-24.40	61.91	26.91	0.31	10.29	QP
8	0.246	26.21	-25.70	51.91	15.61	0.31	10.29	Average
9	0.329	38.15	-21.34	59.49	27.59	0.32	10.24	QP
10	0.329	27.15	-22.34	49.49	16.59	0.32	10.24	Average
11	9.757	41.52	-18.48	60.00	30.90	0.28	10.34	QP
12	9.757	33.82	-16.18	50.00	23.20	0.28	10.34	Average



Test Mode :	Mode 5	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	42~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		

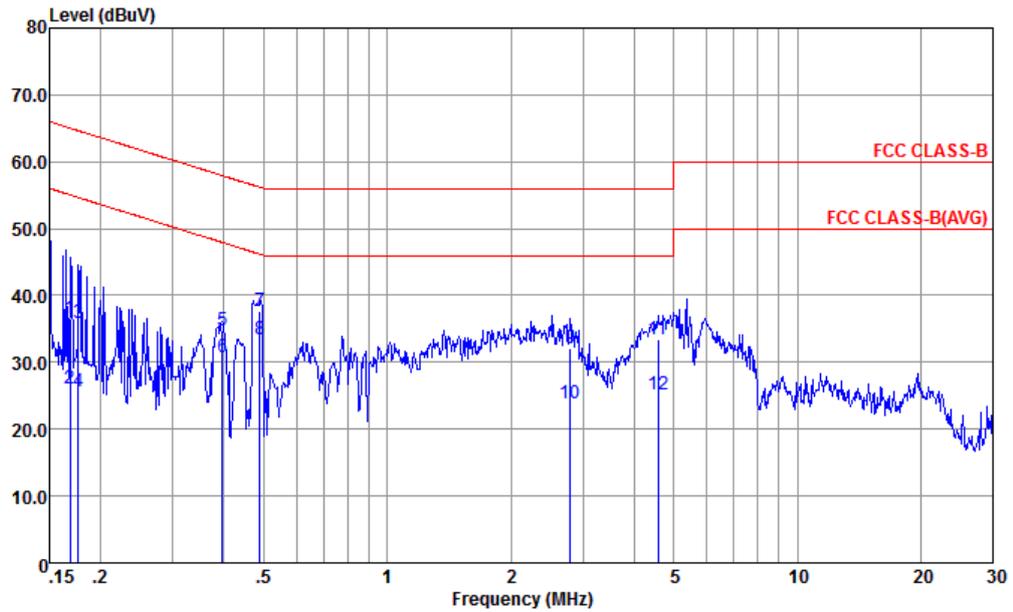


Site : CO01-KS  
 Condition : FCC CLASS-B LISN-L-20151024 LINE  
 Project : (FC) 731003  
 mode : Mode 5  
 : 863862030008394 #15

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	42.50	-23.37	65.87	31.60	0.51	10.39	QP
2	0.152	32.70	-23.17	55.87	21.80	0.51	10.39	Average
3	0.164	37.71	-27.54	65.25	26.91	0.43	10.37	QP
4	0.164	27.11	-28.14	55.25	16.31	0.43	10.37	Average
5	0.193	35.90	-27.99	63.89	25.30	0.26	10.34	QP
6	0.193	22.90	-30.99	53.89	12.30	0.26	10.34	Average
7	0.442	36.02	-21.00	57.02	25.60	0.23	10.19	QP
8 *	0.442	31.72	-15.30	47.02	21.30	0.23	10.19	Average
9	0.474	36.02	-20.43	56.45	25.60	0.23	10.19	QP
10	0.474	28.62	-17.83	46.45	18.20	0.23	10.19	Average
11	2.721	31.69	-24.31	56.00	21.30	0.18	10.21	QP
12	2.721	23.29	-22.71	46.00	12.90	0.18	10.21	Average



Test Mode :	Mode 5	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	42~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : CO01-KS  
 Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL  
 Project : (FC) 731003  
 mode : Mode 5  
 : 863862030008394 #15

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.169	36.47	-28.56	65.03	25.80	0.30	10.37	QP
2	0.169	25.97	-29.06	55.03	15.30	0.30	10.37	Average
3	0.177	35.86	-28.78	64.64	25.19	0.31	10.36	QP
4	0.177	25.56	-29.08	54.64	14.89	0.31	10.36	Average
5	0.396	34.82	-23.13	57.95	24.30	0.32	10.20	QP
6	0.396	30.82	-17.13	47.95	20.30	0.32	10.20	Average
7	0.489	37.71	-18.48	56.19	27.20	0.32	10.19	QP
8 *	0.489	33.41	-12.78	46.19	22.90	0.32	10.19	Average
9	2.794	32.19	-23.81	56.00	21.61	0.37	10.21	QP
10	2.794	23.89	-22.11	46.00	13.31	0.37	10.21	Average
11	4.574	33.50	-22.50	56.00	22.90	0.36	10.24	QP
12	4.574	25.20	-20.80	46.00	14.60	0.36	10.24	Average



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

#### 3.2.2. Measuring Instruments

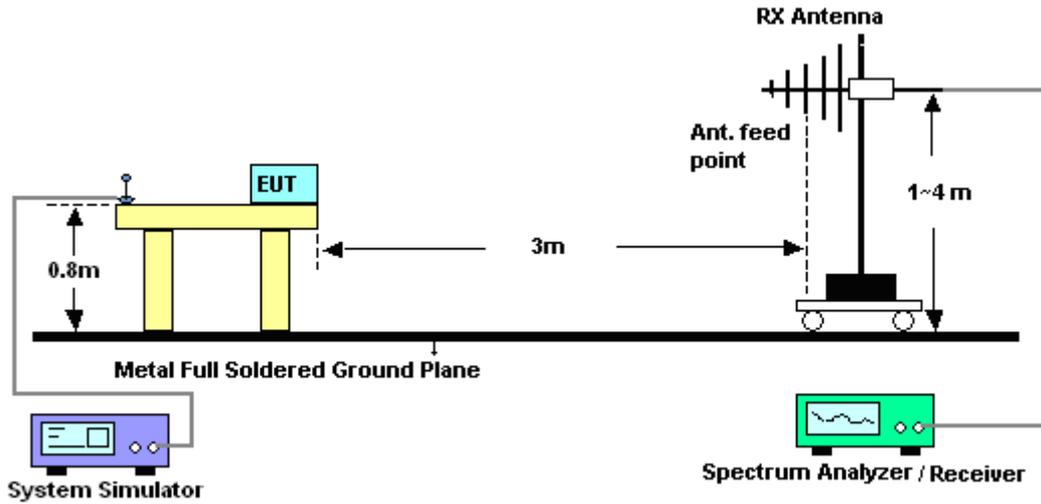
The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3. Test Procedures

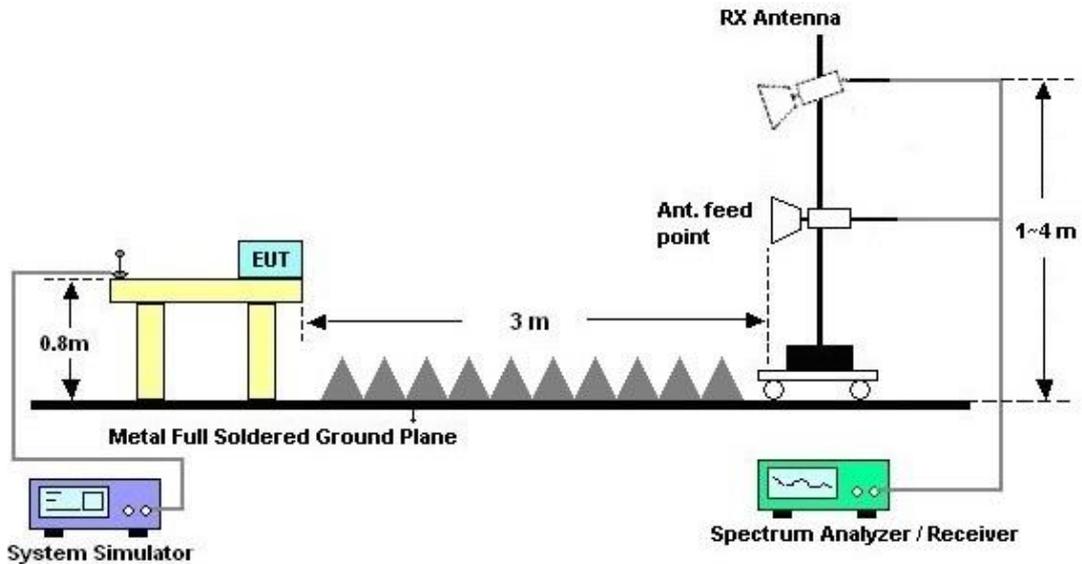
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 (dBµV/m) = 20 log Emission level (µV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



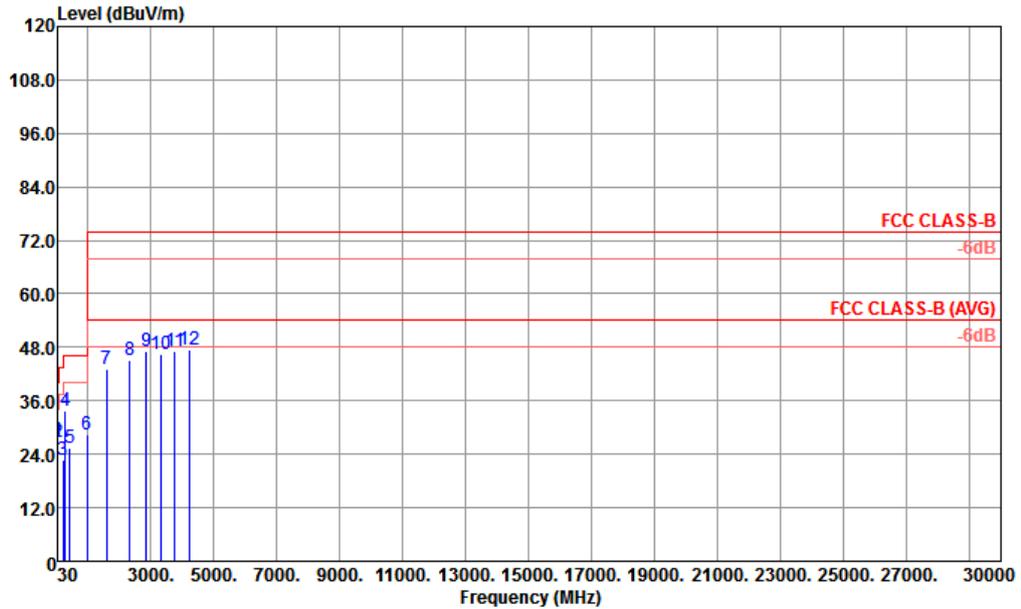
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 4	Temperature :	21~22°C
Test Engineer :	Carl Ni	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Charging from Adapter) + Earphone + Glonass Rx		

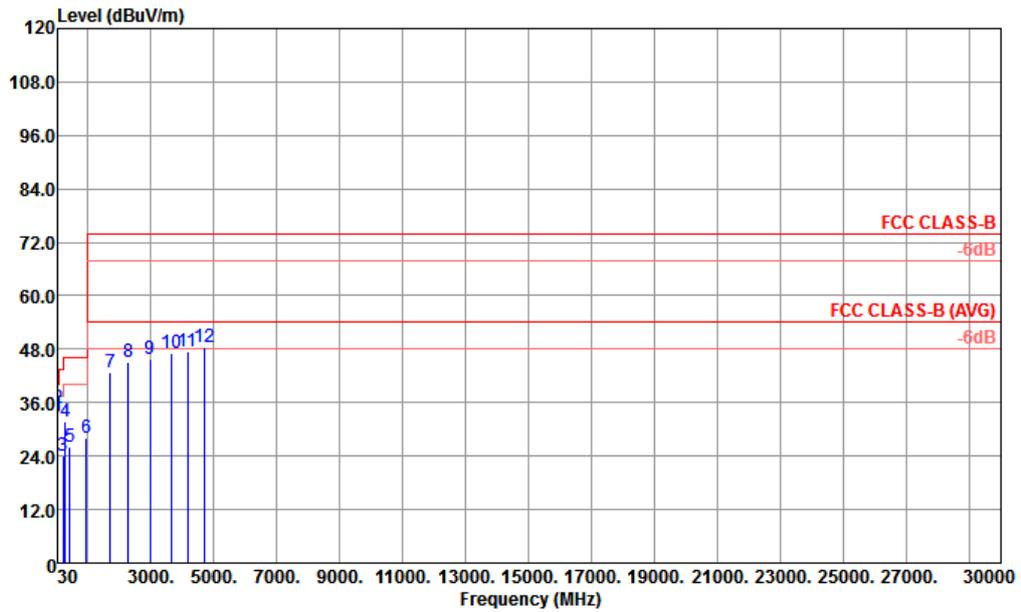


Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m 966-02 LF ANT HORIZONTAL  
 Project : (FC)731003  
 Mode : 4  
 IMEI : 863862030008410 #12

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	34.59	27.11	-12.89	40.00	34.17	24.55	0.12	31.73	---	---	Peak
2	41.88	26.89	-13.11	40.00	37.51	21.10	0.13	31.85	---	---	Peak
3	199.02	22.75	-20.75	43.50	37.92	15.39	0.41	30.97	---	---	Peak
4	278.13	33.65	-12.35	46.00	46.56	17.62	0.55	31.08	100	0	Peak
5	417.60	25.36	-20.64	46.00	29.57	25.01	0.94	30.16	---	---	Peak
6	959.40	28.42	-17.58	46.00	24.44	28.63	1.75	26.40	---	---	Peak
7	1596.00	43.05	-30.95	74.00	46.21	28.94	4.13	36.23	---	---	Peak
8	2338.00	45.05	-28.95	74.00	41.68	31.35	5.64	33.62	---	---	Peak
9	2864.00	47.08	-26.92	74.00	39.91	32.27	2.85	27.95	---	---	Peak
10	3330.00	46.50	-27.50	74.00	37.91	33.58	5.97	30.96	---	---	Peak
11	3747.00	46.97	-27.03	74.00	37.57	34.50	6.39	31.49	---	---	Peak
12	4242.00	47.42	-26.58	74.00	37.88	35.14	6.17	31.77	---	---	Peak



Test Mode :	Mode 4	Temperature :	21~22°C
Test Engineer :	Carl Ni	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(5G) + USB Cable (Charging from Adapter) + Earphone + Glonass Rx		

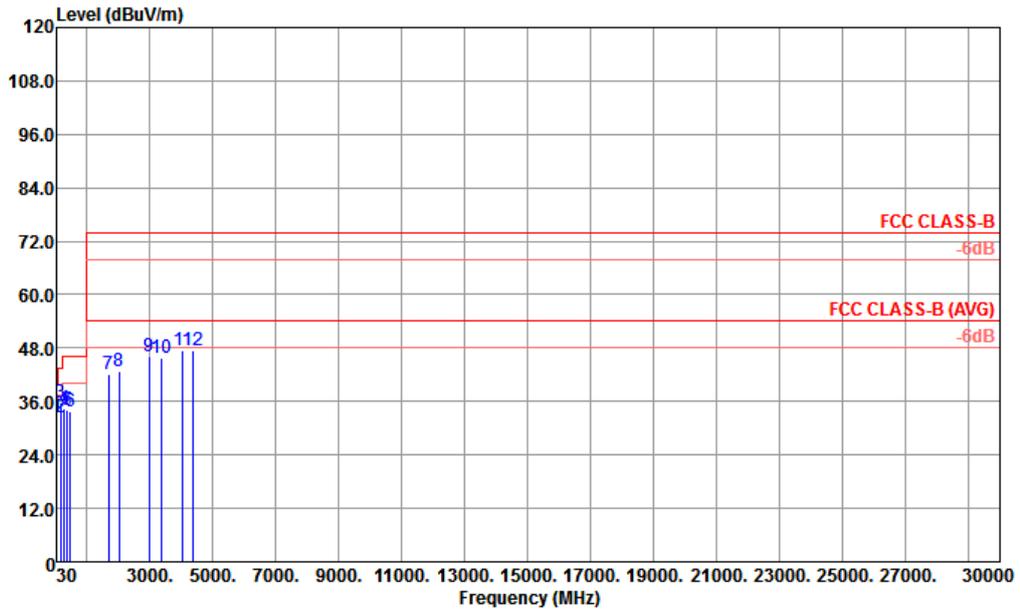


Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m 966-02 LF ANT VERTICAL  
 Project : (FC)731003  
 Mode : 4  
 IMEI : 863862030008410 #12

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	36.75	33.26	-6.74	40.00	41.21	23.70	0.12	31.77	---	---	Peak
2	40.80	34.78	-5.22	40.00	44.99	21.50	0.13	31.84	100	0	Peak
3	199.83	23.92	-19.58	43.50	39.05	15.39	0.41	30.93	---	---	Peak
4	278.13	31.73	-14.27	46.00	44.64	17.62	0.55	31.08	---	---	Peak
5	417.60	26.09	-19.91	46.00	30.30	25.01	0.94	30.16	---	---	Peak
6	943.30	28.24	-17.76	46.00	24.78	28.29	1.71	26.54	---	---	Peak
7	1700.00	42.68	-31.32	74.00	45.41	29.13	4.33	36.19	---	---	Peak
8	2286.00	45.26	-28.74	74.00	42.17	31.29	5.70	33.90	---	---	Peak
9	2962.00	45.93	-28.07	74.00	39.03	32.47	3.04	28.61	---	---	Peak
10	3660.00	46.98	-27.02	74.00	37.83	34.10	6.24	31.19	---	---	Peak
11	4155.00	47.48	-26.52	74.00	37.76	35.08	6.53	31.89	---	---	Peak
12	4710.00	48.33	-25.67	74.00	39.89	35.10	5.74	32.40	---	---	Peak



Test Mode :	Mode 5	Temperature :	21~22°C
Test Engineer :	Carl Ni	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		

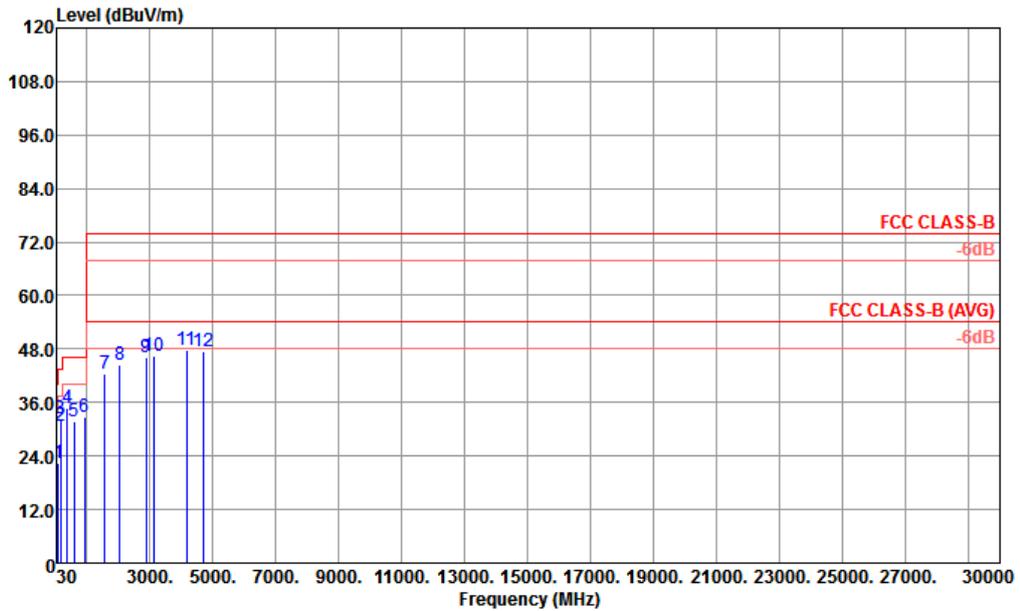


Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m 966-02 LF ANT HORIZONTAL  
 Project : (FC)731003  
 Mode : 5  
 IMEI : 863862030008410 #12

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	30.00	32.33	-7.67	40.00	38.17	25.80	0.11	31.75	100	255 Peak
2	156.63	32.35	-11.15	43.50	46.21	17.28	0.34	31.48	---	--- Peak
3	165.81	35.74	-7.76	43.50	49.92	16.91	0.35	31.44	---	--- Peak
4	284.34	34.33	-11.67	46.00	47.06	17.67	0.56	30.96	---	--- Peak
5	373.50	34.02	-11.98	46.00	41.07	22.61	0.82	30.48	---	--- Peak
6	479.90	33.78	-12.22	46.00	39.19	23.37	0.92	29.70	---	--- Peak
7	1678.00	42.10	-31.90	74.00	44.91	29.10	4.28	36.19	---	--- Peak
8	2030.00	42.84	-31.16	74.00	42.13	30.62	4.76	34.67	---	--- Peak
9	2982.00	46.29	-27.71	74.00	39.41	32.56	3.09	28.77	---	--- Peak
10	3378.00	45.63	-28.37	74.00	36.98	33.64	5.94	30.93	---	--- Peak
11	4050.00	47.42	-26.58	74.00	38.06	34.91	6.24	31.79	---	--- Peak
12	4353.00	47.48	-26.52	74.00	38.63	35.21	5.13	31.49	---	--- Peak



Test Mode :	Mode 5	Temperature :	21~22°C
Test Engineer :	Carl Ni	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m 966-02 LF ANT VERTICAL  
 Project : (FC)731003  
 Mode : 5  
 IMEI : 863862030008410 #12

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	84.54	22.32	-17.68	40.00	37.92	15.87	0.21	31.68	---	---	Peak
2	156.63	30.80	-12.70	43.50	44.66	17.28	0.34	31.48	---	---	Peak
3	165.81	32.52	-10.98	43.50	46.70	16.91	0.35	31.44	100	58	Peak
4	373.50	34.69	-11.31	46.00	41.74	22.61	0.82	30.48	---	---	Peak
5	598.20	31.70	-14.30	46.00	35.38	24.33	0.90	28.91	---	---	Peak
6	917.40	32.85	-13.15	46.00	30.03	27.87	1.71	26.76	---	---	Peak
7	1564.00	42.54	-31.46	74.00	45.81	28.88	4.05	36.20	---	---	Peak
8	2044.00	44.53	-29.47	74.00	43.77	30.62	4.76	34.62	---	---	Peak
9	2872.00	46.11	-27.89	74.00	38.94	32.27	2.85	27.95	---	---	Peak
10	3144.00	46.36	-27.64	74.00	38.68	33.18	5.08	30.58	---	---	Peak
11	4167.00	47.74	-26.26	74.00	37.95	35.08	6.60	31.89	---	---	Peak
12	4698.00	47.45	-26.55	74.00	39.01	35.10	5.74	32.40	---	---	Peak



### 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	Apr. 29, 2016	Apr. 04, 2017	Apr. 28, 2017	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2016	Apr. 04, 2017	Oct. 12, 2017	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2016	Apr. 04, 2017	Oct. 12, 2017	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 13, 2016	Apr. 04, 2017	Oct. 12, 2017	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 09, 2016	Apr. 02, 2017	Aug. 08, 2017	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz, MAX 30dB	Apr. 22, 2016	Apr. 02, 2017	Apr. 21, 2017	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz~2GHz	Aug. 20, 2016	Apr. 02, 2017	Aug. 19, 2017	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 22, 2016	Apr. 02, 2017	Oct. 21, 2017	Radiation (03CH02-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 15, 2017	Apr. 02, 2017	Feb. 14, 2018	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18GHz~40GHz	Oct. 13, 2016	Apr. 02, 2017	Oct. 12, 2017	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	Apr. 22, 2016	Apr. 02, 2017	Apr. 21, 2017	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 13, 2016	Apr. 02, 2017	Oct. 12, 2017	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Apr. 02, 2017	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Apr. 02, 2017	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Apr. 02, 2017	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required



## 5. Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.2dB
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### Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.7dB
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### Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.3dB
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