



# FCC Test Report

APPLICANT : ZTE Corporation  
EQUIPMENT : Tablet  
BRAND NAME : ZTE  
MODEL NAME : K81  
MARKETING NAME : K81  
FCC ID : SRQ-K81  
STANDARD : FCC 47 CFR FCC Part 15 Subpart B  
CLASSIFICATION : Certification

The product was received on Mar. 24, 2017 and testing was completed on Mar. 29, 2017. We, SPORTON International (ShenZhen) 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 (ShenZhen) INC., the test report shall not be reproduced except in full.

Prepared by: Eric Shih / Manager

Approved by: Jones Tsai / Manager



**SPORTON International (ShenZhen) INC.**

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District, Shenzhen City,  
Guangdong Province, China**



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	ICES003 Section 6.1	AC Conducted Emission	< 15.107 limits < ICES003 6.1 limits	PASS	Under limit 13.38 dB at 6.150 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 3.45 dB at 30.540 MHz for Quasi-Peak



# 1. General Description

## 1.1. Applicant

**ZTE Corporation**

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

## 1.2. Manufacturer

**ZTE Corporation**

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

## 1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Brand Name	ZTE
Model Name	K81
Marketing Name	K81
FCC ID	SRQ-K81
EUT supports Radios application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/ LTE/WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/ Bluetooth v4.1 LE/Bluetooth v4.2 LE
IMEI Code	Conduction: 864855030001574 Radiation: 864855030001988
HW Version	K81MB_A
SW Version	PV_ZTE_P890R81_ROGERSV1.0.0B01
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 25 : 1850.7MHz ~ 1914.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 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 25 : 1930.7MHz ~ 1994.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz FM : 87.5 MHz ~ 108 MHz
<b>Antenna Type</b>	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS: PIFA Antenna FM: External headset Antenna
<b>Type of Modulation</b>	WCDMA : BPSK (Uplink) HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) 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) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK FM

### 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 (ShenZhen) INC.	
<b>Test Site Location</b>	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District, Shenzhen City, Guangdong Province, China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	CO01-SZ	

<b>Test Site</b>	SPORTON International (ShenZhen) INC.	
<b>Test Site Location</b>	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC/IC Registration No.</b>
	03CH03-SZ	565805/4086F

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

### 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
- ♦ IC ICES-003 Issue 6
- ♦ IC RSS-Gen Issue 4

**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.

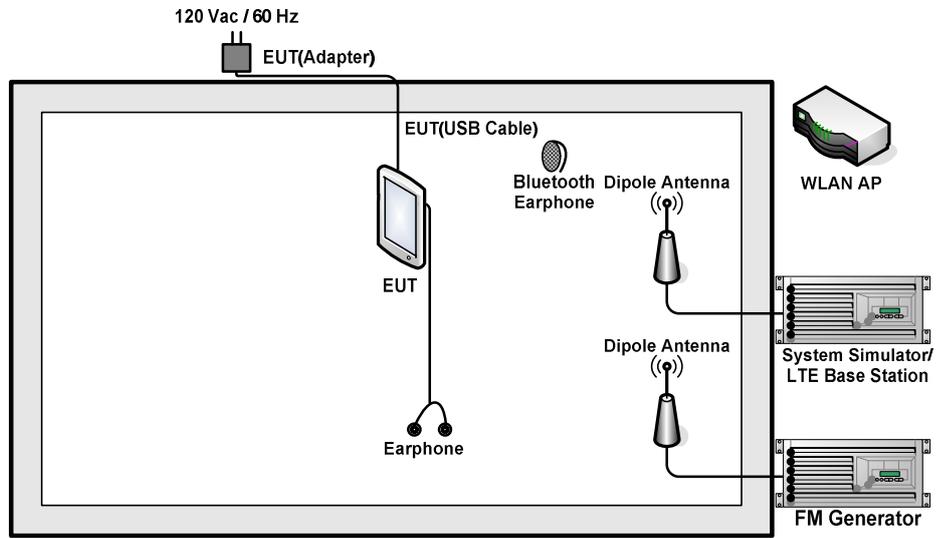
Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + Camera(Rear) <Fig.1>
	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + Camera(Front) <Fig.1>
	Mode 3: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 3) + Earphone + MPEG4<Fig.1>
	Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + FM Rx (88MHz) <Fig.1>
	Mode 5: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx<Fig.2>
Radiated Emissions < 1GHz	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + Camera(Rear) <Fig.1>
	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + Camera(Front) <Fig.1>
	Mode 3: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 3) + Earphone + MPEG4<Fig.1>
	Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + FM Rx (88MHz) <Fig.1>
	Mode 5: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx<Fig.2>
Radiated Emissions ≥ 1GHz	Mode 1: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + FM Rx (88MHz) <Fig.1>
	Mode 2: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx<Fig.2>

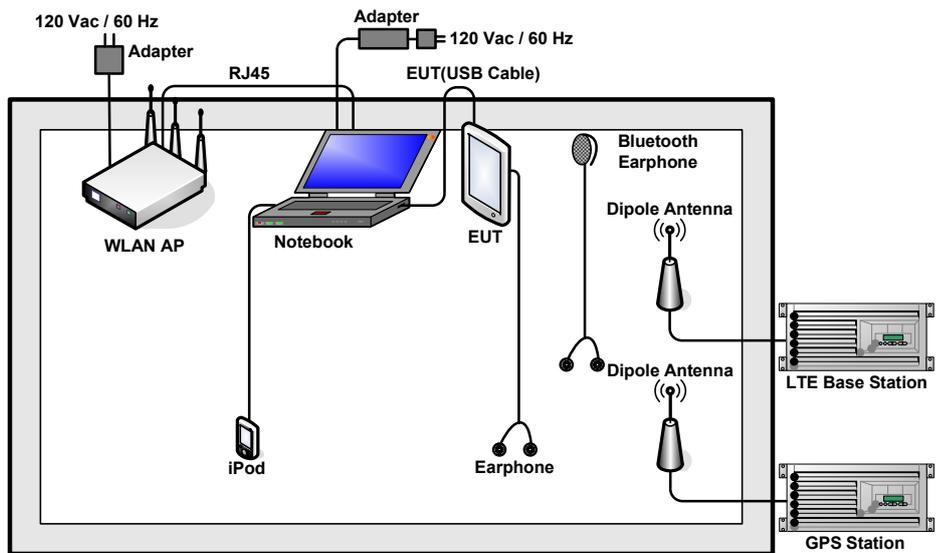
**Remark:**

1. The worst case of AC is mode 5; only the test data of this mode was 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 this mode was 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>

### 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.	Signal Generator (FM)	R&S	SMB100A	FCC DoC	N/A	Unshielded, 1.5 m
4.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
6.	WLAN AP	D-link	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8m
7.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
9.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
10.	Earphone	Apple	MC690ZP/A	N/A	Shielded, 1.0m	N/A
11.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0m	N/A
12.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2m	N/A
13.	iPod Earphone	Apple	MC690ZP/A	FCC DoC	Unshielded, 1.6 m	N/A
14.	SD Card	Kingston	SDC10/8GB	FCC DoC	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 function to make the EUT receive continuous signals from GPS 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.

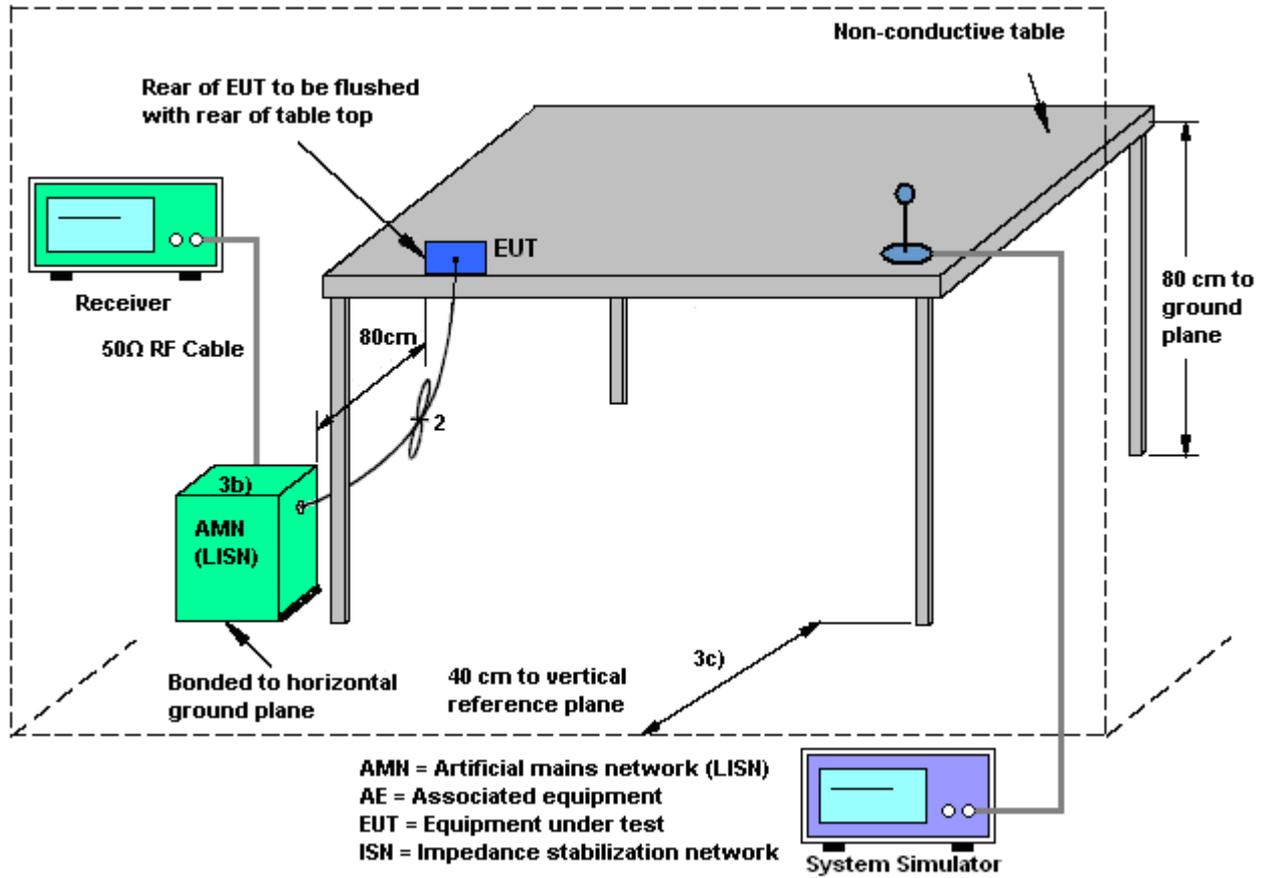
##### 3.1.2 Measuring Instruments

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.

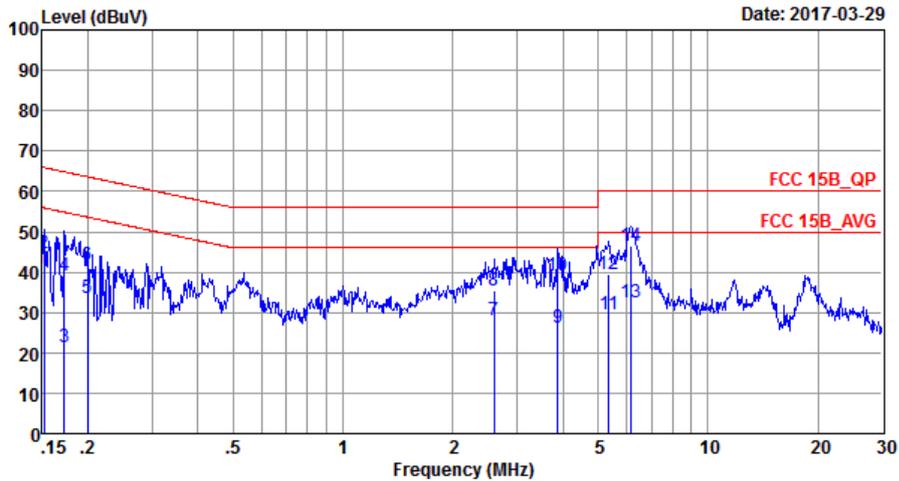
### 3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 5	Temperature :	21~23°C
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



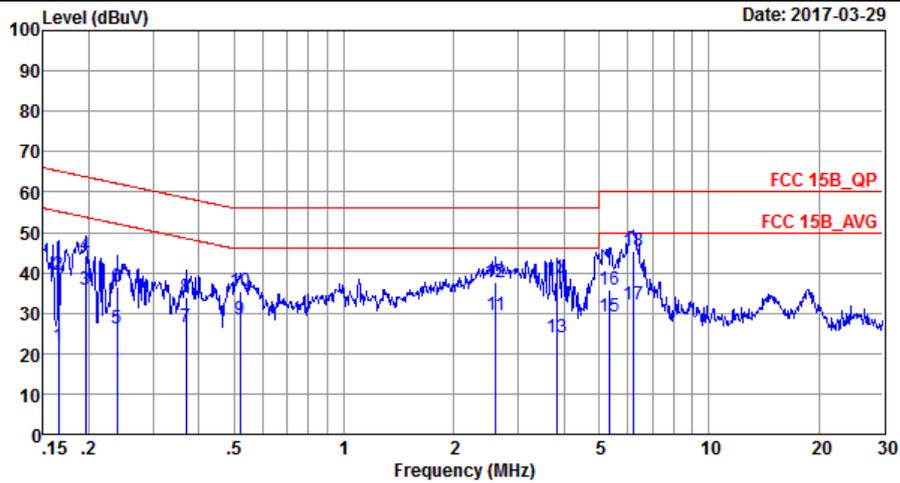
Site : CO01-SZ  
 Condition: FCC 15B\_QP LISN\_20170301\_L LINE

Mode : Mode 5  
 IMEI : 864855030001574

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	41.13	-14.78	55.91	30.70	0.03	10.40	Average
2	0.15	44.73	-21.18	65.91	34.30	0.03	10.40	QP
3	0.17	21.35	-33.51	54.86	11.00	0.03	10.32	Average
4	0.17	39.25	-25.61	64.86	28.90	0.03	10.32	QP
5	0.20	33.65	-19.97	53.62	23.40	0.03	10.22	Average
6	0.20	41.85	-21.77	63.62	31.60	0.03	10.22	QP
7	2.59	28.04	-17.96	46.00	17.71	0.14	10.19	Average
8	2.59	35.44	-20.56	56.00	25.11	0.14	10.19	QP
9	3.88	26.12	-19.88	46.00	15.69	0.18	10.25	Average
10	3.88	39.22	-16.78	56.00	28.79	0.18	10.25	QP
11	5.36	29.69	-20.31	50.00	19.20	0.20	10.29	Average
12	5.36	39.39	-20.61	60.00	28.90	0.20	10.29	QP
13	6.15	32.52	-17.48	50.00	22.00	0.21	10.31	Average
14 *	6.15	46.62	-13.38	60.00	36.10	0.21	10.31	QP



Test Mode :	Mode 5	Temperature :	21~23°C
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : C001-SZ  
 Condition: FCC 15B QP LISN\_20170301\_N NEUTRAL

Mode : Mode 5  
 IMEI : 864855030001574

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.17	21.68	-33.53	55.21	11.30	0.03	10.35	Average
2	0.17	39.48	-25.73	65.21	29.10	0.03	10.35	QP
3	0.20	35.76	-18.04	53.80	25.50	0.03	10.23	Average
4	0.20	44.26	-19.54	63.80	34.00	0.03	10.23	QP
5	0.24	26.05	-26.08	52.13	15.80	0.03	10.22	Average
6	0.24	36.45	-25.68	62.13	26.20	0.03	10.22	QP
7	0.37	26.42	-22.10	48.52	16.20	0.02	10.20	Average
8	0.37	33.92	-24.60	58.52	23.70	0.02	10.20	QP
9	0.52	28.40	-17.60	46.00	18.20	0.02	10.18	Average
10	0.52	35.30	-20.70	56.00	25.10	0.02	10.18	QP
11	2.61	29.43	-16.57	46.00	19.20	0.04	10.19	Average
12	2.61	37.53	-18.47	56.00	27.30	0.04	10.19	QP
13	3.84	23.89	-22.11	46.00	13.60	0.05	10.24	Average
14	3.84	38.09	-17.91	56.00	27.80	0.05	10.24	QP
15	5.36	29.06	-20.94	50.00	18.70	0.07	10.29	Average
16	5.36	35.96	-24.04	60.00	25.60	0.07	10.29	QP
17	6.19	32.28	-17.72	50.00	21.90	0.07	10.31	Average
18 *	6.19	45.28	-14.72	60.00	34.90	0.07	10.31	QP



### 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

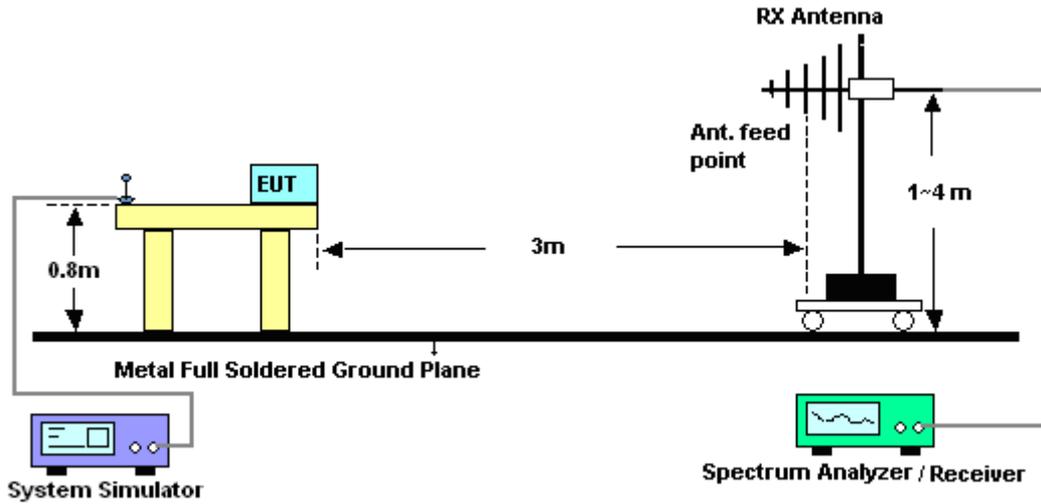
The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3. Test Procedures

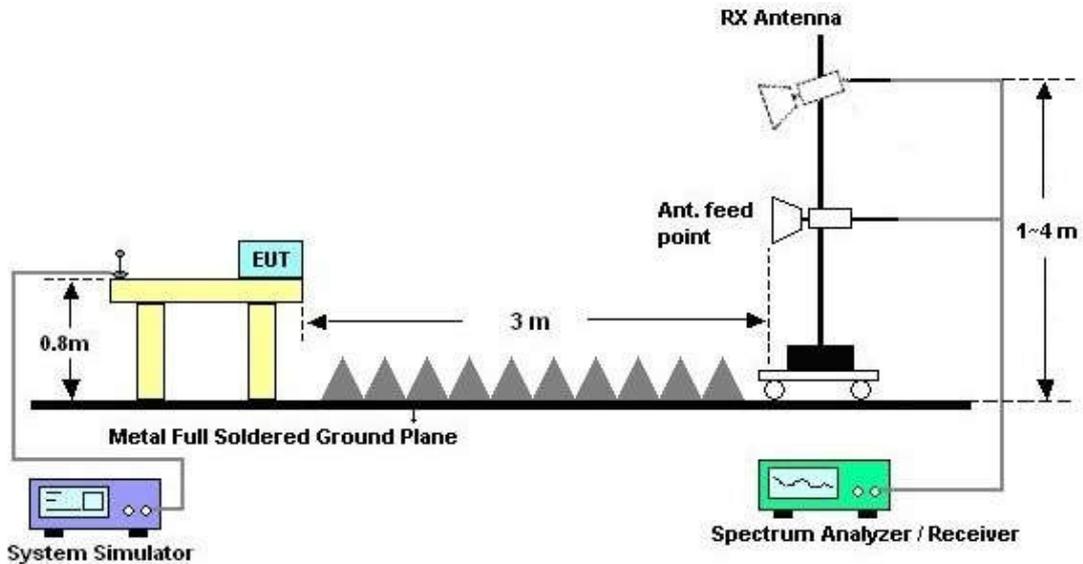
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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



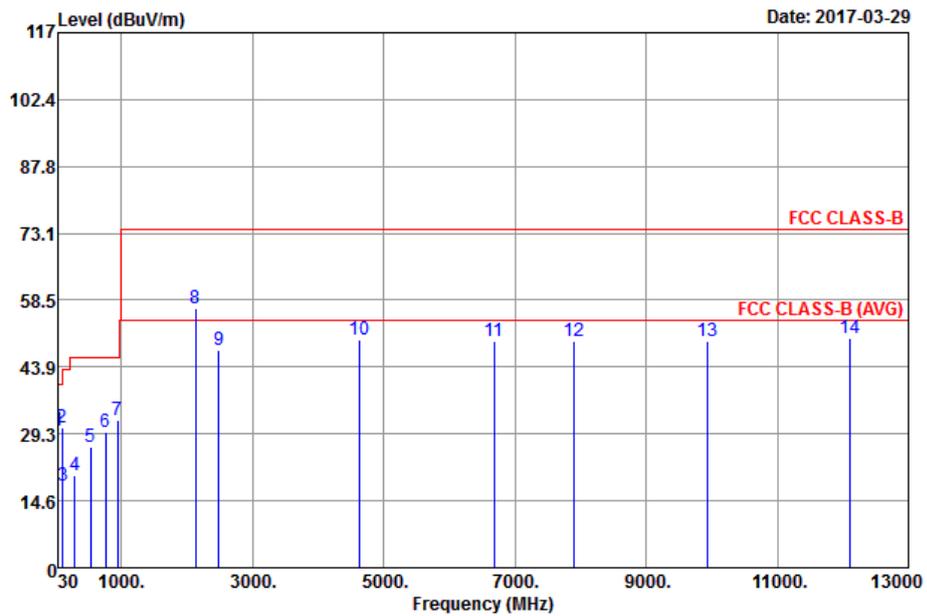
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 4	Temperature :	23~25°C
Test Engineer :	Jason Zeng	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + FM Rx (88MHz)		
Remark :	#2 is Base station (FM option) signal which can be ignored. #8 is system simulator signal which can be ignored.		

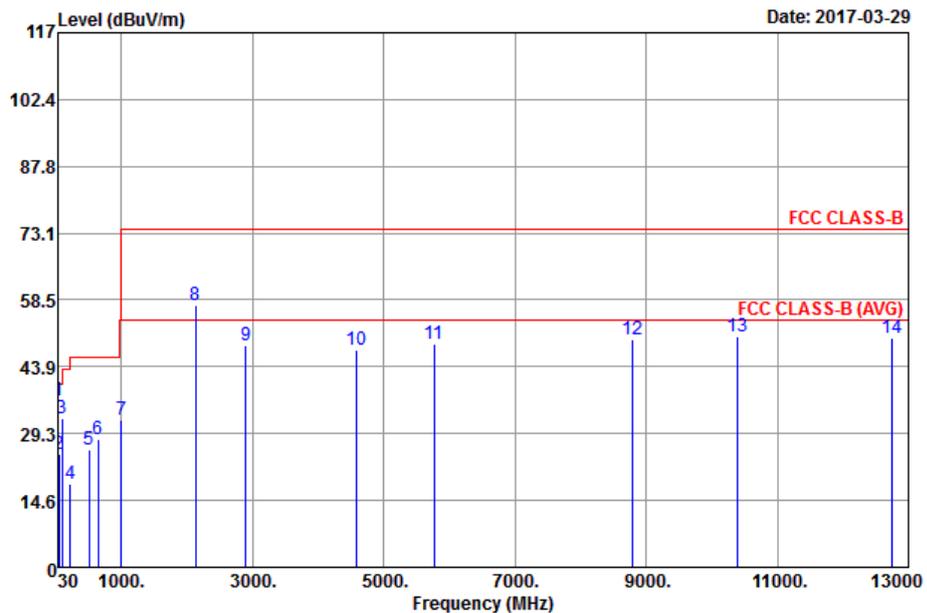


Site : 03CH03-SZ  
 Condition : FCC CLASS-B 3m LF\_ANT(23188)\_6 HORIZONTAL  
 Project : (FC)732417  
 Mode : Mode 4  
 IMEI : 864855030001988

	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	29.93	-10.07	40.00	35.80	25.60	0.23	31.70	200	150	Peak
2	88.05	30.55			44.88	16.52	0.75	31.60	---	---	Peak
3	108.84	17.80	-25.70	43.50	31.10	17.33	0.93	31.56	---	---	Peak
4	290.01	20.11	-25.89	46.00	31.33	18.04	2.00	31.26	---	---	Peak
5	524.70	26.43	-19.57	46.00	31.37	23.69	2.77	31.40	---	---	Peak
6	752.20	29.73	-16.27	46.00	31.04	26.72	3.47	31.50	---	---	Peak
7	942.60	32.15	-13.85	46.00	31.18	28.55	3.92	31.50	---	---	Peak
8	2132.00	56.70			77.94	29.57	6.29	57.10	---	---	Peak
9	2484.00	47.55	-26.45	74.00	65.35	31.98	6.91	56.69	---	---	Peak
10	4626.00	49.71	-24.29	74.00	62.96	33.17	10.68	57.10	---	---	Peak
11	6676.00	49.38	-24.62	74.00	55.25	35.97	15.69	57.53	---	---	Peak
12	7902.00	49.59	-24.41	74.00	57.69	35.34	12.59	56.03	---	---	Peak
13	9930.00	49.66	-24.34	74.00	54.02	37.60	14.23	56.19	---	---	Peak
14	12110.00	50.28	-23.72	74.00	53.32	38.80	15.02	56.86	180	100	Peak



Test Mode :	Mode 4	Temperature :	23~25°C
Test Engineer :	Jason Zeng	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + FM Rx (88MHz)		
Remark :	#3 is Base station (FM option) signal which can be ignored. #8 is system simulator signal which can be ignored.		

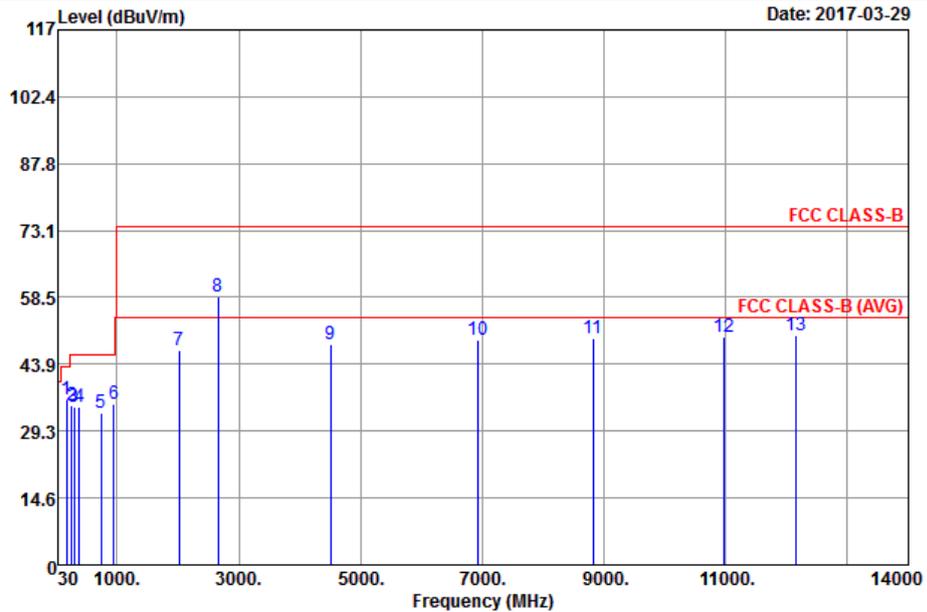


Site : 03CH03-SZ  
 Condition : FCC CLASS-B 3m LF\_ANT(23188)\_6 VERTICAL  
 Project : (FC)732417  
 Mode : Mode 4  
 IMEI : 864855030001988

	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	30.54	36.55	-3.45	40.00	42.56	25.44	0.25	31.70	100	355 QP
2	43.50	24.65	-15.35	40.00	35.31	20.22	0.42	31.30	---	---
3	88.05	32.58			46.91	16.52	0.75	31.60	---	---
4	215.76	18.32	-25.18	43.50	31.26	16.52	1.70	31.16	---	---
5	503.70	25.86	-20.14	46.00	31.19	23.35	2.72	31.40	---	---
6	644.40	28.12	-17.88	46.00	31.18	25.31	3.13	31.50	---	---
7	997.90	32.12	-21.88	54.00	30.44	28.98	4.20	31.50	---	---
8	2132.00	57.40			78.64	29.57	6.29	57.10	---	---
9	2894.00	48.59	-25.41	74.00	64.18	32.87	8.34	56.80	---	---
10	4578.00	47.74	-26.26	74.00	61.18	33.14	10.64	57.22	---	---
11	5764.00	48.96	-25.04	74.00	56.71	35.33	12.65	55.73	---	---
12	8800.00	49.80	-24.20	74.00	55.58	36.42	12.75	54.95	---	---
13	10382.00	50.49	-23.51	74.00	54.52	37.81	14.62	56.46	100	150 Peak
14	12752.00	50.10	-23.90	74.00	53.36	39.00	15.10	57.36	---	---



Test Mode :	Mode 5	Temperature :	23~25°C
Test Engineer :	Jason Zeng	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		
Remark :	#8 is system simulator signal which can be ignored.		

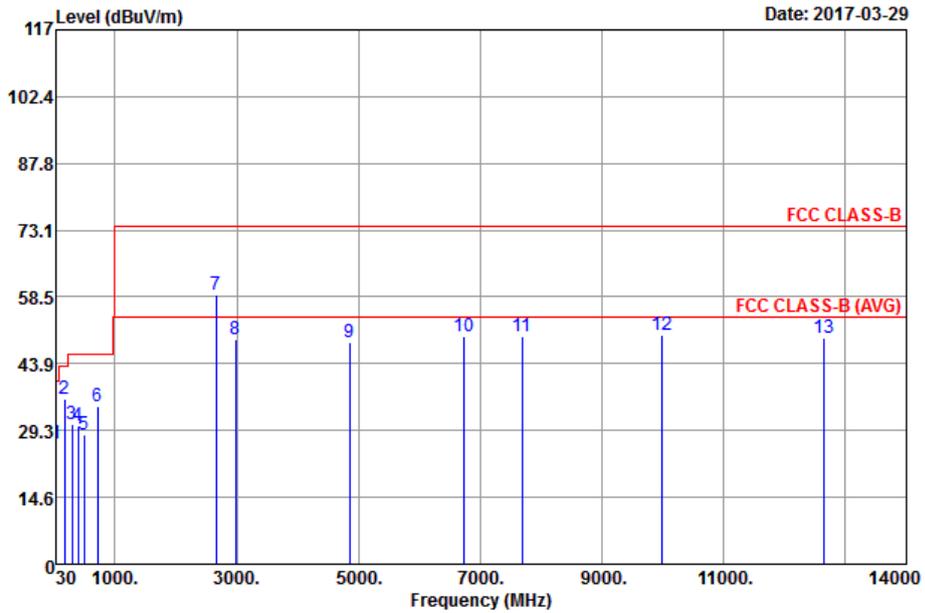


Site : 03CH03-SZ  
 Condition : FCC CLASS-B 3m LF\_ANT(23188)\_6 HORIZONTAL  
 Project : (FC)732417  
 Mode : Mode 5  
 IMEI : 864855030001988

	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	166.62	36.21	-7.29	43.50	49.56	16.57	1.41	31.33	150	0 Peak
2	256.53	34.75	-11.25	46.00	46.48	17.51	1.88	31.12	---	---
3	298.65	34.67	-11.33	46.00	45.74	18.18	2.04	31.29	---	---
4	386.10	34.71	-11.29	46.00	42.71	20.96	2.34	31.30	---	---
5	738.90	33.11	-12.89	46.00	34.62	26.57	3.42	31.50	---	---
6	950.30	35.11	-10.89	46.00	34.05	28.61	3.95	31.50	---	---
7	2024.00	46.97	-27.03	74.00	69.37	28.72	6.12	57.24	---	---
8	2654.00	58.51			75.68	32.40	7.15	56.72	---	---
9	4510.00	48.19	-25.81	74.00	61.91	33.10	10.57	57.39	---	---
10	6930.00	49.10	-24.90	74.00	56.05	35.91	15.08	57.94	---	---
11	8824.00	49.57	-24.43	74.00	55.32	36.43	12.77	54.95	---	---
12	10966.00	49.81	-24.19	74.00	52.73	37.99	14.76	55.67	---	---
13	12140.00	50.19	-23.81	74.00	53.26	38.80	15.02	56.89	150	0 Peak



Test Mode :	Mode 5	Temperature :	23~25°C
Test Engineer :	Jason Zeng	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH03-SZ  
 Condition : FCC CLASS-B 3m LF\_ANT(23188)\_6 VERTICAL  
 Project : (FC)732417  
 Mode : Mode 5  
 IMEI : 864855030001988

	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	30.27	26.41	-13.59	40.00	32.28	25.60	0.23	31.70	---	---	Peak
2	167.16	36.19	-7.31	43.50	49.54	16.57	1.41	31.33	100	100	Peak
3	298.65	30.60	-15.40	46.00	41.67	18.18	2.04	31.29	---	---	Peak
4	387.50	30.39	-15.61	46.00	38.32	21.02	2.35	31.30	---	---	Peak
5	498.10	28.44	-17.56	46.00	33.87	23.27	2.70	31.40	---	---	Peak
6	715.10	34.66	-11.34	46.00	36.55	26.28	3.33	31.50	---	---	Peak
7	2654.00	58.87			76.04	32.40	7.15	56.72	---	---	Peak
8	2978.00	49.18	-24.82	74.00	64.07	33.03	8.91	56.83	---	---	Peak
9	4850.00	48.60	-25.40	74.00	60.95	33.31	10.92	56.58	---	---	Peak
10	6742.00	50.01	-23.99	74.00	55.96	35.95	15.74	57.64	---	---	Peak
11	7690.00	49.72	-24.28	74.00	58.57	35.22	12.72	56.79	---	---	Peak
12	9994.00	50.09	-23.91	74.00	54.20	37.50	14.53	56.14	200	0	Peak
13	12652.00	49.61	-24.39	74.00	53.08	38.92	15.09	57.48	---	---	Peak



### 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jan. 06, 2017	Mar. 29, 2017	Jan. 05, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan. 05, 2017	Mar. 29, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan. 05, 2017	Mar. 29, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 16, 2016	Mar. 29, 2017	Jul. 15, 2017	Conduction (CO01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	May 07, 2016	Mar. 29, 2017	May 06, 2017	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz	May 07, 2016	Mar. 29, 2017	May 06, 2017	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 21, 2016	Mar. 29, 2017	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	May 07, 2016	Mar. 29, 2017	May 06, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz~3000MHz	Oct. 11, 2016	Mar. 29, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 11, 2016	Mar. 29, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Mar. 29, 2017	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 29, 2017	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 29, 2017	NCR	Radiation (03CH03-SZ)

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% ( $U = 2Uc(y)$ )	2.5dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.1dB
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### Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0dB
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