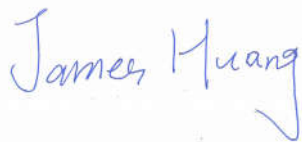


FCC Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : WCDMA/LTE Multi-Mode Digital Mobile Phone
BRAND NAME : ZTE
MODEL NAME : Z968
FCC ID : SRQ-Z968
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was completed on Mar. 30, 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



Approved by: Jones Tsai / Manager



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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5O1902-01	Rev. 01	Initial issue of report	Mar. 01, 2016
FC5O1902-01	Rev. 02	Update report for adding two adapters.	Apr. 05, 2016



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 3.79 dB at 13.560 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 1.07 dB at 344.800 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, 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	WCDMA/LTE Multi-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z968
FCC ID	SRQ-Z968
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/LTE/NFC/ WLAN2.4GHz 802.11b/g/n HT20/ Bluetooth v2.1+ EDR/Bluetooth v4.0 LE
IMEI Code	Conduction: 868503020001768 Radiation: 868503020001230
HW Version	u45A
SW Version	Z968V1.0.0B06
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	
Tx Frequency	GSM850 : 824.2 MHz ~ 848.8 MHz GSM1900 : 1850.2 MHz ~ 1909.8MHz WCDMA Band V : 826.4 MHz ~ 846.6 MHz WCDMA Band II : 1852.4 MHz ~ 1907.6 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Rx Frequency	GSM850 : 869.2 MHz ~ 893.8 MHz GSM1900 : 1930.2 MHz ~ 1989.8 MHz WCDMA Band V : 871.4 MHz ~ 891.6 MHz WCDMA Band II : 1932.4 MHz ~ 1987.6 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz Glonass: 1602 MHz + $n \times 0.5625\text{MHz}$ ($n=-7,-6,-5,\dots,0,\dots,6$) NFC : 13.56 MHz
Antenna Type	WWAN : Fixed Internal Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS/Glonass: IFA Antenna NFC : Loop Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 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/Glonass : BPSK NFC: ASK

1.5. Modification of EUT

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

1.6. Test Location

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

1.7. Applicable Standards

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

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2014

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).

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

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

Abbreviations:

- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

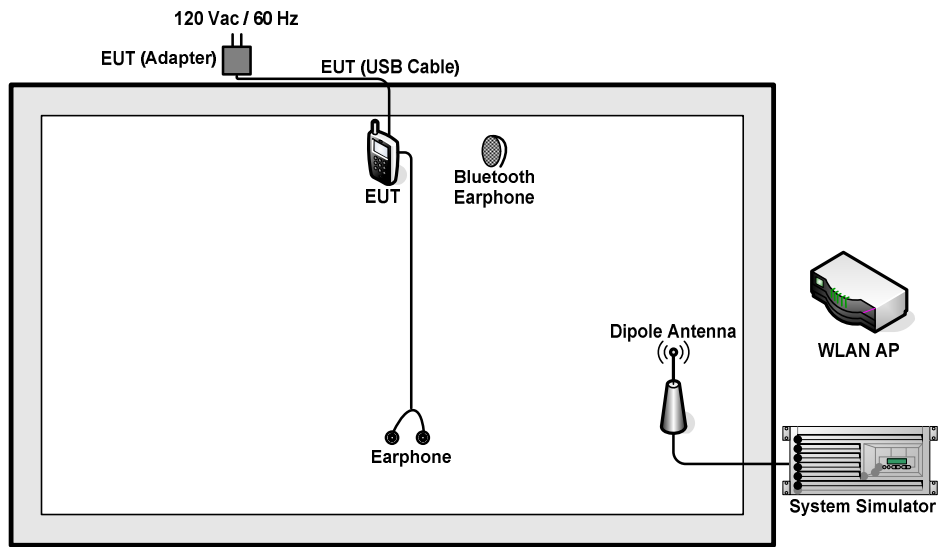
Note 1: Testing for this mode is not required or not the worst case.

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

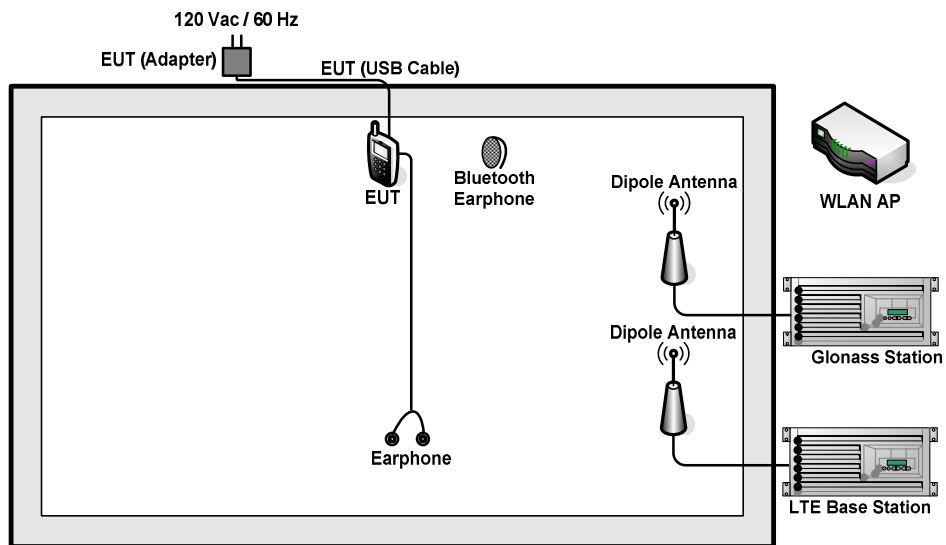
Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + Camera(Rear) <Fig.1> Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + Camera(Front) <Fig.1> Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + MPEG4<Fig.1> Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + Glonass Rx<Fig.2> Mode 5: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx<Fig.3> Mode 6: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + NFC On<Fig.1> Mode 7: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + NFC On<Fig.1> Mode 8: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 3) + Earphone + NFC On<Fig.1>

Radiated Emissions < 1GHz	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + Camera(Rear) <Fig.1> Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + Camera(Front) <Fig.1> Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + MPEG4<Fig.1> Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + Glonass Rx<Fig.2> Mode 5: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx<Fig.3> Mode 6: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 1) + Earphone + NFC On<Fig.1> Mode 7: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + NFC On<Fig.1> Mode 8: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 3) + Earphone + NFC On<Fig.1>
Radiated Emissions ≥ 1GHz	2	Mode 1: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx<Fig.3>
Remark: 1. The worst case of AC is mode 7; and the USB Link mode of AC is mode 5; the test data of these modes are reported. 2. The worst case of RE < 1G is mode 5; only the test data of this mode is reported. 3. Link with notebook means data application transferred mode between EUT and notebook.		

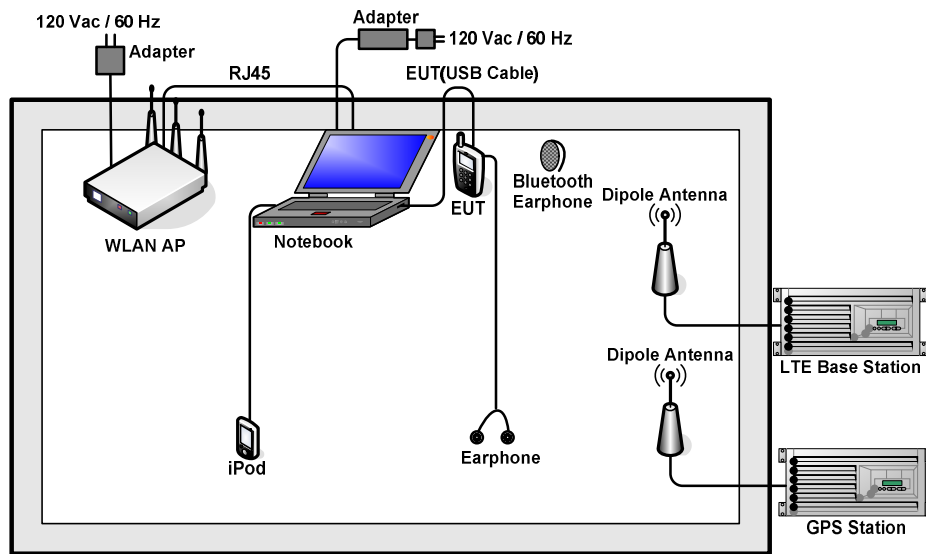
2.2. Connection Diagram of Test System



<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.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Glonass Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8 m
4.	GPS Station	ADIVIC	MP9000	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	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	Latitude 3440	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
9.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
10.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
11.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
12.	Earphone	Lenovo	SH100	N/A	Unshielded, 1.2 m	N/A
13.	SD Card	Kingston	4GB	N/A	N/A	N/A
14.	SD Card	SanDisk	Ultra	N/A	N/A	N/A



2.4. EUT Operation Test Setup

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

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

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

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.

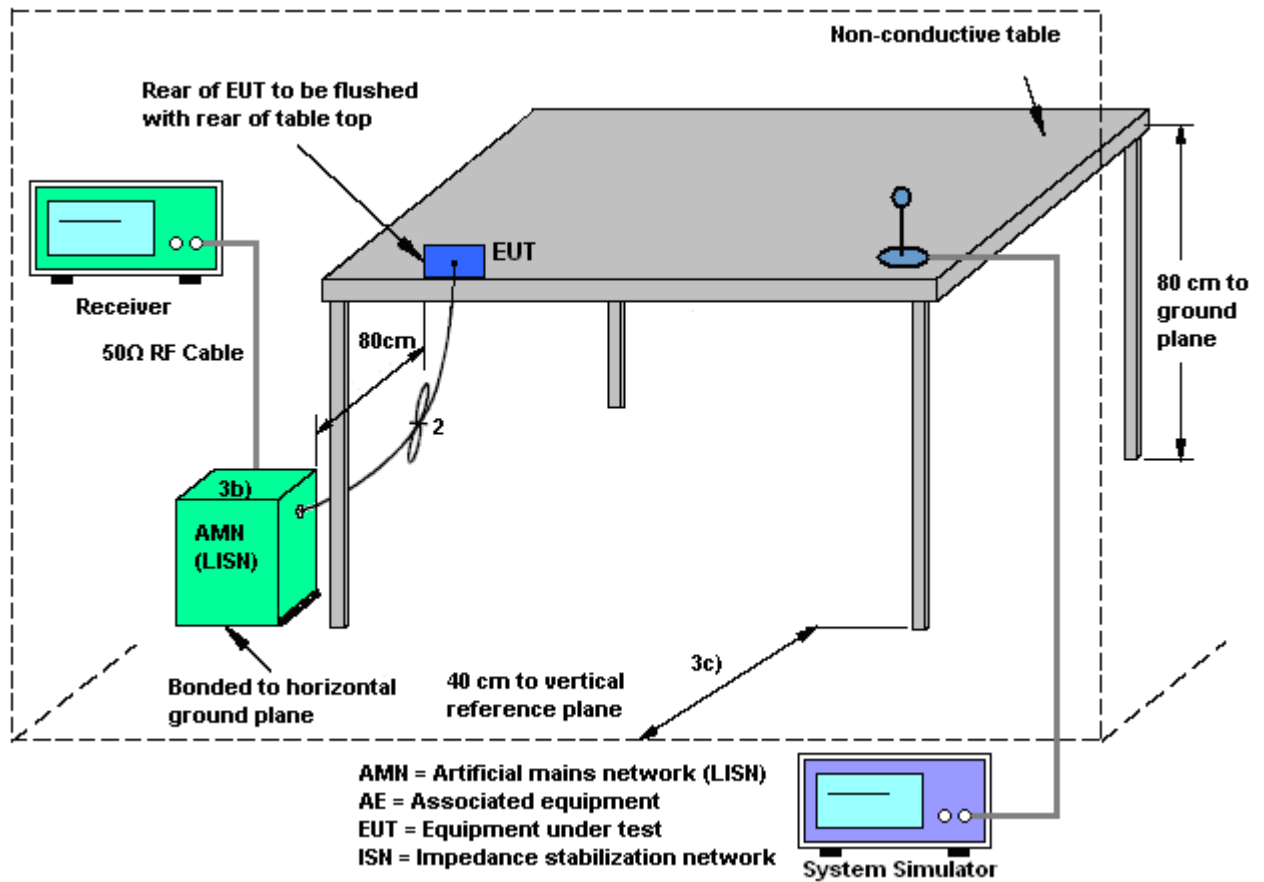
3.1.2 Measuring Instruments

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.

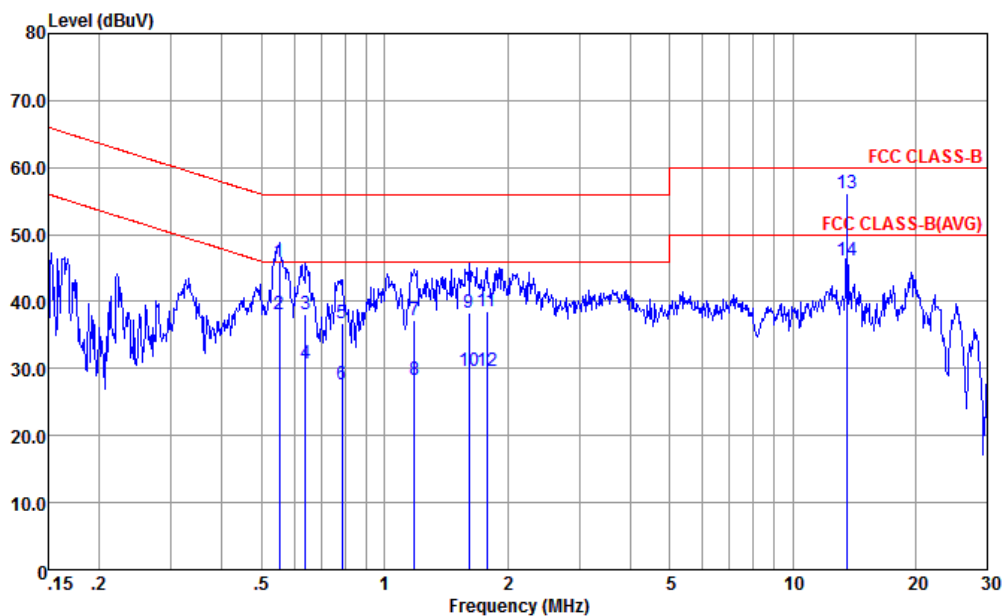
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 7	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	44~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + NFC On		

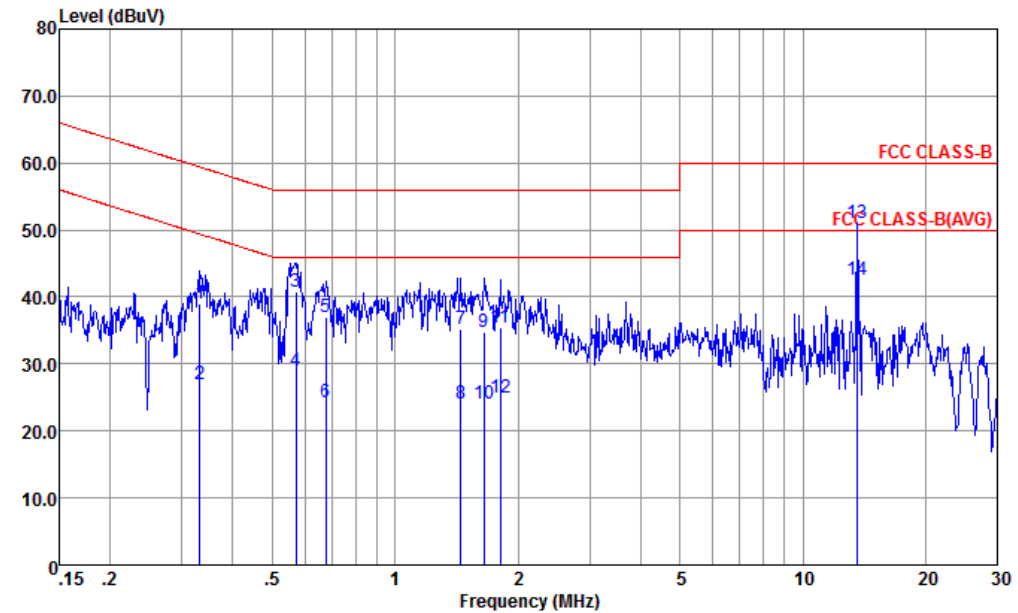


Site : CO01-KS
Condition : FCC CLASS-B LISN-L-20151024 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.55	45.99	-10.01	56.00	35.60	0.23	10.16	QP
2	0.55	38.19	-7.81	46.00	27.80	0.23	10.16	Average
3	0.64	38.19	-17.81	56.00	27.79	0.24	10.16	QP
4	0.64	30.79	-15.21	46.00	20.39	0.24	10.16	Average
5	0.79	36.79	-19.21	56.00	26.40	0.24	10.15	QP
6	0.79	27.59	-18.41	46.00	17.20	0.24	10.15	Average
7	1.18	37.27	-18.73	56.00	26.90	0.23	10.14	QP
8	1.18	28.27	-17.73	46.00	17.90	0.23	10.14	Average
9	1.61	38.24	-17.76	56.00	27.90	0.20	10.14	QP
10	1.61	29.54	-16.46	46.00	19.20	0.20	10.14	Average
11	1.78	38.53	-17.47	56.00	28.20	0.19	10.14	QP
12	1.78	29.63	-16.37	46.00	19.30	0.19	10.14	Average
13 *	13.56	56.21	-3.79	60.00	45.60	0.26	10.35	QP
14	13.56	46.11	-3.89	50.00	35.50	0.26	10.35	Average



Test Mode :	Mode 7	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	44~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter 2) + Earphone + NFC On		

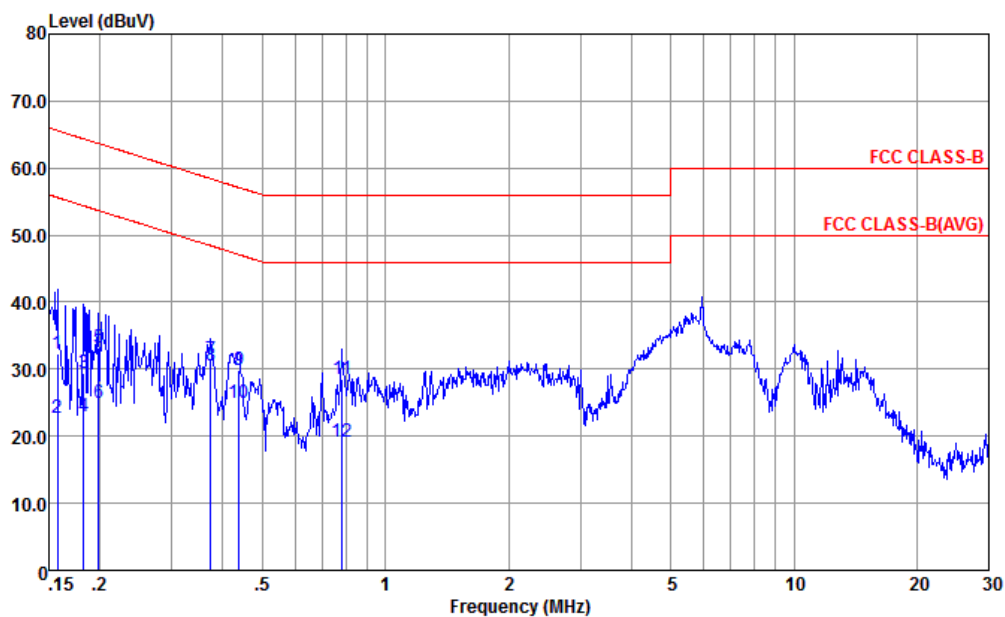


Site : CO01-KS
Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.33	38.97	-20.43	59.40	28.49	0.32	10.16	QP
2	0.33	26.87	-22.53	49.40	16.39	0.32	10.16	Average
3	0.57	40.79	-15.21	56.00	30.30	0.33	10.16	QP
4	0.57	28.89	-17.11	46.00	18.40	0.33	10.16	Average
5	0.68	36.89	-19.11	56.00	26.40	0.34	10.15	QP
6	0.68	24.29	-21.71	46.00	13.80	0.34	10.15	Average
7	1.45	35.31	-20.69	56.00	24.79	0.38	10.14	QP
8	1.45	24.11	-21.89	46.00	13.59	0.38	10.14	Average
9	1.65	34.82	-21.18	56.00	24.30	0.38	10.14	QP
10	1.65	24.12	-21.88	46.00	13.60	0.38	10.14	Average
11	1.81	35.42	-20.58	56.00	24.90	0.38	10.14	QP
12	1.81	25.02	-20.98	46.00	14.50	0.38	10.14	Average
13	13.56	51.02	-8.98	60.00	40.40	0.27	10.35	QP
14 *	13.56	42.52	-7.48	50.00	31.90	0.27	10.35	Average



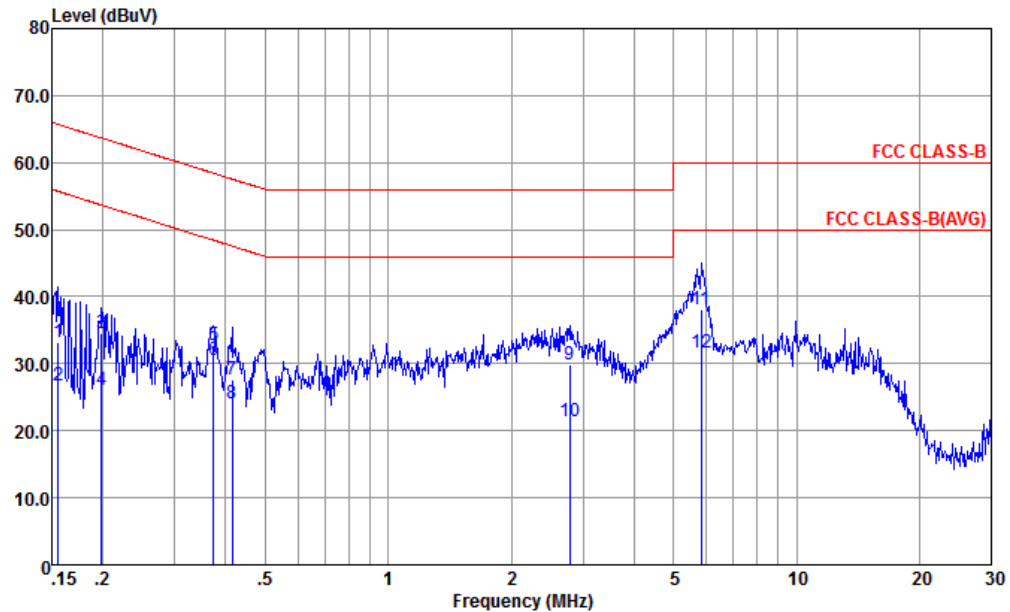
Test Mode :	Mode 5	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	44~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : CO01-KS
Condition : FCC CLASS-B LISN-L-20151024 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	32.39	-33.21	65.60	21.80	0.48	10.11	QP
2	0.16	22.79	-32.81	55.60	12.20	0.48	10.11	Average
3	0.18	29.34	-35.03	64.37	18.90	0.32	10.12	QP
4	0.18	23.04	-31.33	54.37	12.60	0.32	10.12	Average
5	0.20	33.16	-30.51	63.67	22.80	0.23	10.13	QP
6	0.20	24.86	-28.81	53.67	14.50	0.23	10.13	Average
7	0.37	31.49	-26.94	58.43	21.10	0.23	10.16	QP
8 *	0.37	30.59	-17.84	48.43	20.20	0.23	10.16	Average
9	0.44	29.90	-27.21	57.11	19.50	0.23	10.17	QP
10	0.44	24.90	-22.21	47.11	14.50	0.23	10.17	Average
11	0.78	28.59	-27.41	56.00	18.20	0.24	10.15	QP
12	0.78	19.19	-26.81	46.00	8.80	0.24	10.15	Average

Test Mode :	Mode 5	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	44~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : CO01-KS
Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	33.31	-32.38	65.69	22.90	0.30	10.11	QP
2	0.16	26.71	-28.98	55.69	16.30	0.30	10.11	Average
3	0.20	34.64	-29.03	63.67	24.20	0.31	10.13	QP
4	0.20	26.04	-27.63	53.67	15.60	0.31	10.13	Average
5	0.37	32.78	-25.65	58.43	22.30	0.32	10.16	QP
6 *	0.37	30.58	-17.85	48.43	20.10	0.32	10.16	Average
7	0.41	27.69	-29.86	57.55	17.20	0.32	10.17	QP
8	0.41	23.99	-23.56	47.55	13.50	0.32	10.17	Average
9	2.78	29.82	-26.18	56.00	19.30	0.37	10.15	QP
10	2.78	21.32	-24.68	46.00	10.80	0.37	10.15	Average
11	5.84	38.13	-21.87	60.00	27.60	0.33	10.20	QP
12	5.84	31.63	-18.37	50.00	21.10	0.33	10.20	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

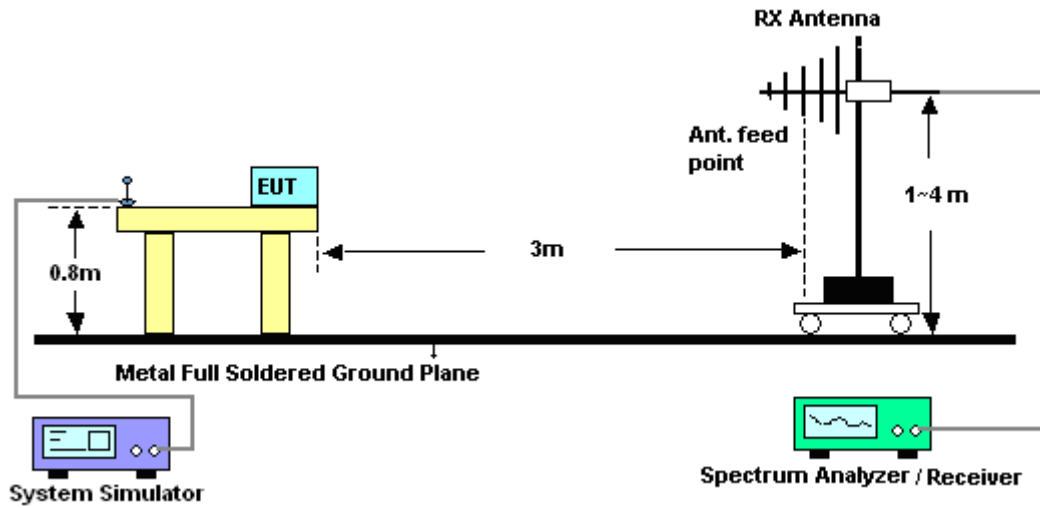
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

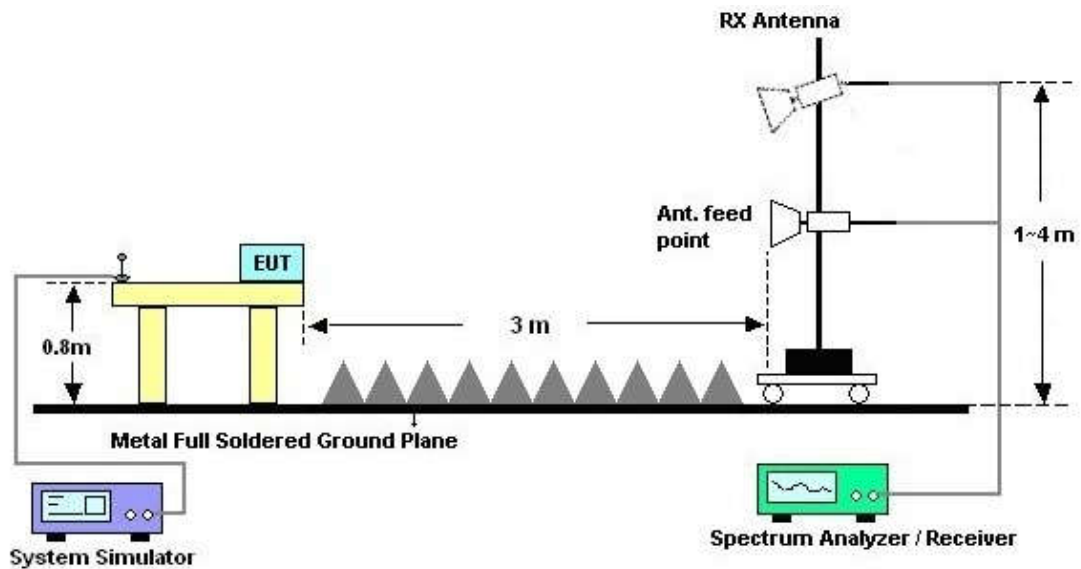
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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



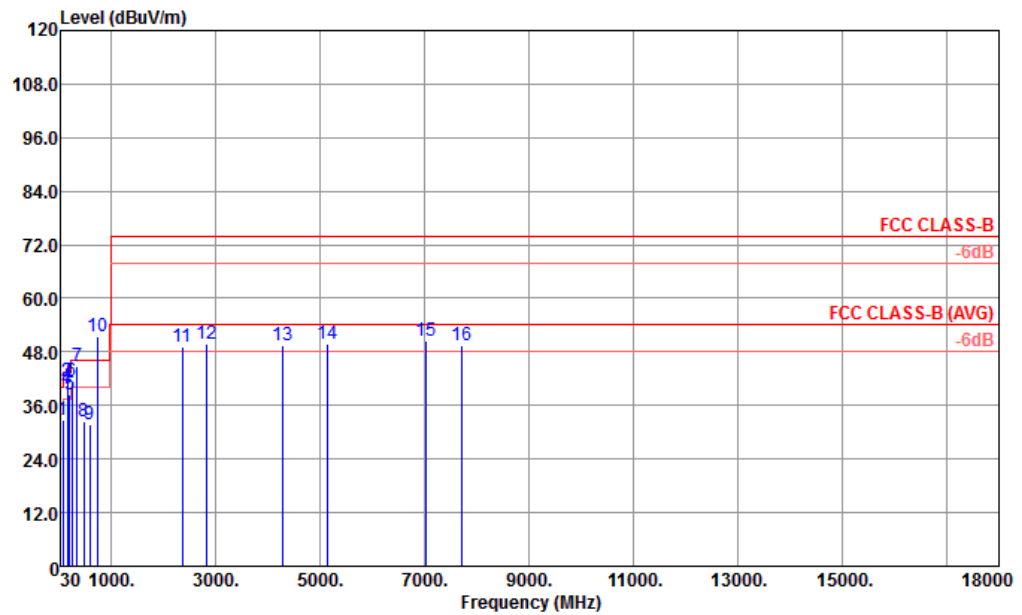
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 5	Temperature :	21~22°C
Test Engineer :	Maker Qi	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		
Remark :	#10 is system simulator signal which can be ignored.		

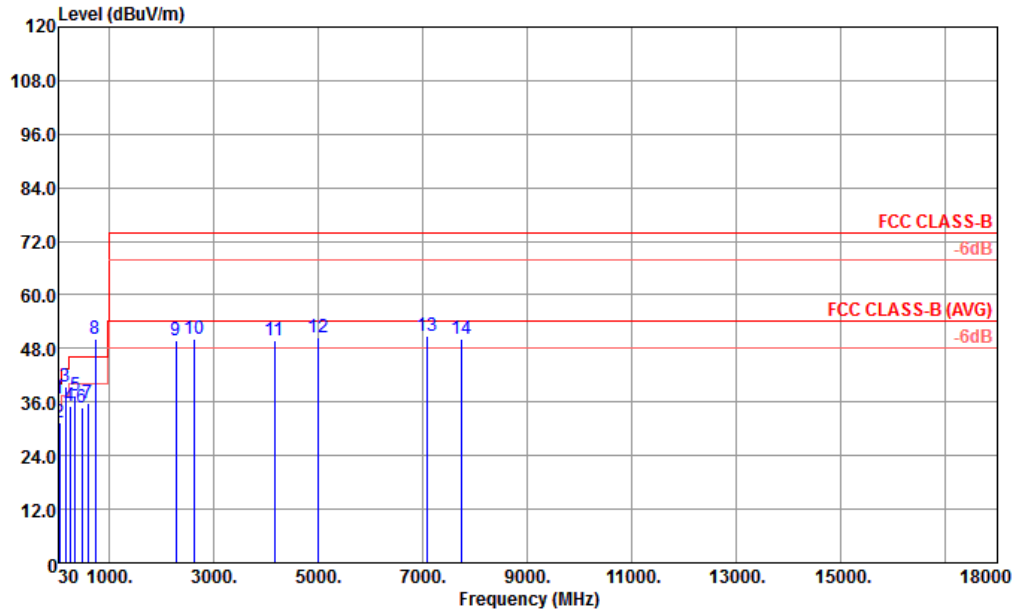


Site : 03CH02-KS
Condition : FCC CLASS-B 3m LF_ANT_37879 HORIZONTAL
Project : (FC)501902-01

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	Pol/Phas	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	84.54	32.67	-7.33	40.00	52.13	9.54	1.50	30.50	---	---	Peak	HORIZONTAL
2 !	165.54	41.43	-2.07	43.50	58.60	11.10	2.13	30.40	181	133	QP	HORIZONTAL
3 !	166.62	41.60	-1.90	43.50	58.79	11.07	2.14	30.40	180	137	QP	HORIZONTAL
4 !	170.40	39.65	-3.85	43.50	56.95	10.92	2.18	30.40	---	---	Peak	HORIZONTAL
5 !	212.52	38.36	-5.14	43.50	55.99	10.38	2.42	30.43	---	---	Peak	HORIZONTAL
6 !	254.37	41.47	-4.53	46.00	57.15	12.17	2.65	30.50	---	---	Peak	HORIZONTAL
7 !	344.80	44.93	-1.07	46.00	57.70	14.81	3.01	30.59	100	256	QP	HORIZONTAL
8	479.90	32.41	-13.59	46.00	41.99	17.18	3.68	30.44	---	---	Peak	HORIZONTAL
9	596.80	31.84	-14.16	46.00	39.07	18.81	4.17	30.21	---	---	Peak	HORIZONTAL
10 *	738.20	51.42			58.37	19.72	3.81	30.48	---	---	Peak	HORIZONTAL
11	2362.00	49.27	-24.73	74.00	43.25	31.26	6.17	31.41	---	---	Peak	HORIZONTAL
12	2828.00	49.83	-24.17	74.00	40.17	32.47	6.72	29.53	---	---	Peak	HORIZONTAL
13	4281.00	49.62	-24.38	74.00	36.90	34.77	8.52	30.57	---	---	Peak	HORIZONTAL
14	5136.00	49.86	-24.14	74.00	39.61	35.04	9.01	33.80	---	---	Peak	HORIZONTAL
15	7029.00	50.46	-23.54	74.00	38.59	35.51	10.65	34.29	---	---	Peak	HORIZONTAL
16	7728.00	49.58	-24.42	74.00	36.99	35.51	11.10	34.02	---	---	Peak	HORIZONTAL



Test Mode :	Mode 5	Temperature :	21~22°C
Test Engineer :	Maker Qi	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 12 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 : 03CH02-KS
Condition : FCC CLASS-B 3m LF_ANT_37879 VERTICAL
Project : (FC)501902-01

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg	
1 !	31.35	36.71	-3.29	40.00	48.05	18.71	0.97	31.02	---	---	Peak VERTICAL
2	46.74	31.32	-8.68	40.00	50.26	10.74	1.12	30.80	---	---	Peak VERTICAL
3 !	165.81	39.33	-4.17	43.50	56.50	11.10	2.13	30.40	100	0 QP	Peak VERTICAL
4	254.10	35.10	-10.90	46.00	50.78	12.17	2.65	30.50	---	---	Peak VERTICAL
5	344.80	37.46	-8.54	46.00	50.23	14.81	3.01	30.59	---	---	Peak VERTICAL
6	479.90	34.87	-11.13	46.00	44.45	17.18	3.68	30.44	---	---	Peak VERTICAL
7	598.20	35.74	-10.26	46.00	42.96	18.80	4.18	30.20	---	---	Peak VERTICAL
8 *	738.90	50.22			57.21	19.68	3.81	30.48	---	---	Peak VERTICAL
9	2282.00	49.85	-24.15	74.00	44.14	31.17	6.06	31.52	---	---	Peak VERTICAL
10	2644.00	50.12	-23.88	74.00	42.00	31.87	6.52	30.27	---	---	Peak VERTICAL
11	4161.00	49.86	-24.14	74.00	36.62	34.78	8.52	30.06	---	---	Peak VERTICAL
12	5004.00	50.48	-23.52	74.00	40.07	35.00	8.84	33.43	---	---	Peak VERTICAL
13	7089.00	50.69	-23.31	74.00	38.90	35.52	10.67	34.40	---	---	Peak VERTICAL
14	7731.00	50.10	-23.90	74.00	37.48	35.51	11.13	34.02	---	---	Peak VERTICAL



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2015	Jan. 05, 2016~ Mar. 30, 2016	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	Jan. 05, 2016~ Mar. 30, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	Jan. 05, 2016~ Mar. 30, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	Jan. 05, 2016~ Mar. 30, 2016	Oct. 23, 2016	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 10, 2015	Jan. 07, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz; Max 30dBm	Sep. 10, 2015	Jan. 07, 2016	Sep. 09, 2016	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25MHz~2GHz	Jan. 15, 2015	Jan. 07, 2016	Jan. 14, 2016	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 07, 2015	Jan. 07, 2016	Nov. 06, 2016	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	May 04, 2015	Jan. 07, 2016	May 03, 2016	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 24, 2015	Jan. 07, 2016	Oct. 23, 2016	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Jan. 07, 2016	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jan. 07, 2016	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jan. 07, 2016	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% ($U = 2U_c(y)$)	2.3 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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