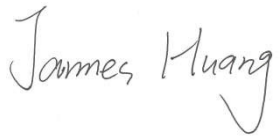
FCC Test Report

APPLICANT	:	ZTE CORPORATION
EQUIPMENT	:	WCDMA/LTE Multi-mode Digital Mobile Phone
BRAND NAME	:	ZTE
MODEL NAME	:	Z835, Z851
FCC ID	:	SRQ-Z835
STANDARD	:	FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	:	Certification

The product was received on Feb. 28, 2017 and testing was completed on Apr. 01, 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.



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Testing Laboratory
2627

Sporton International (KunShan) INC.

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC722803	Rev. 01	Initial issue of report	Apr. 27, 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 6.69 dB at 0.454 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 1.08 dB at 959.900 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	Z835, Z851
FCC ID	SRQ-Z835
EUT supports Radios application	GSM/GPRS/EGPRS/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: 864237030001401 Radiation: 864237030001674
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 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 12 : 699.7 MHz ~ 715.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 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 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 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× 0.5625MHz (n=−7,−6,−5,...0,...,6) FM : 87.5 MHz ~ 108 MHz
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS/Glonass: PIFA Antenna FM: External headset Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) LTE: QPSK / 16QAM / 64QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS/Glonass : BPSK FM

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 Development Zone, Jiangsu, 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.

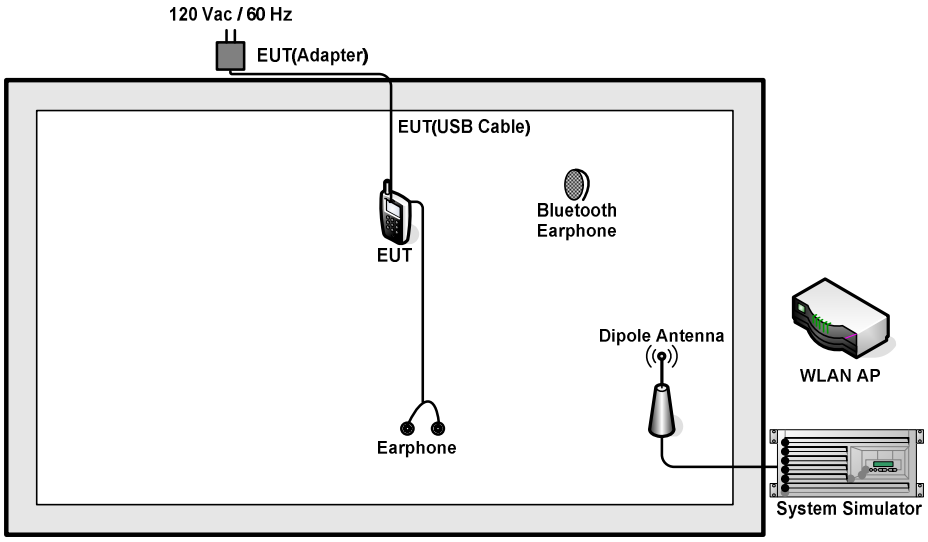
Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + Camera (Rear)<Fig.1> Mode 2 : GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + Camera (Front)<Fig.1> Mode 3 : WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + MPEG4<Fig.1> Mode 4 : LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery + GPS Rx<Fig.2>
Radiated Emissions < 1GHz	Mode 1 : GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + Camera (Rear) <Fig.1> Mode 2 : GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + Camera (Front) <Fig.1> Mode 3 : WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + MPEG4 <Fig.1> Mode 4 : LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery + GPS Rx <Fig.2>
Radiated Emissions ≥ 1GHz	Mode 1 : LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery + GPS Rx <Fig.2>

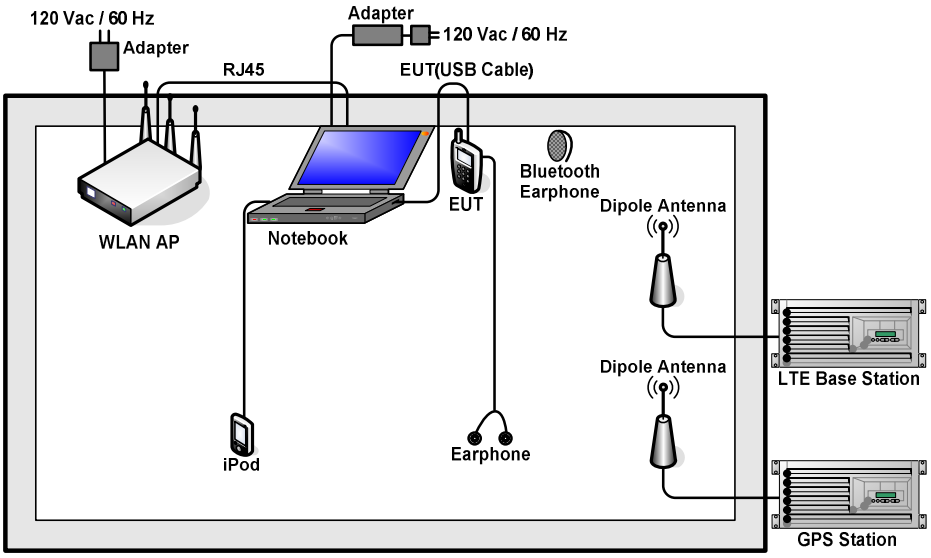
Remark:

1. The worst case of AC is mode 3; and the USB link mode of AC is mode 4, the test data of these modes were reported.
2. The worst case of RE < 1G is mode 4; only 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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-link	DIR855	KA2DIR855A2	N/A	Unshielded, 1.8 m
5.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
6.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
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.	SD Card	Kingston	4GB	N/A	N/A	N/A
10.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
11.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
12.	Earphone	Lenovo	LH102	N/A	Unshielded, 1.2 m	N/A
13.	Earphone	Lenovo	SH100	N/A	Unshielded, 1.2 m	N/A

2.4. EUT Operation Test Setup

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

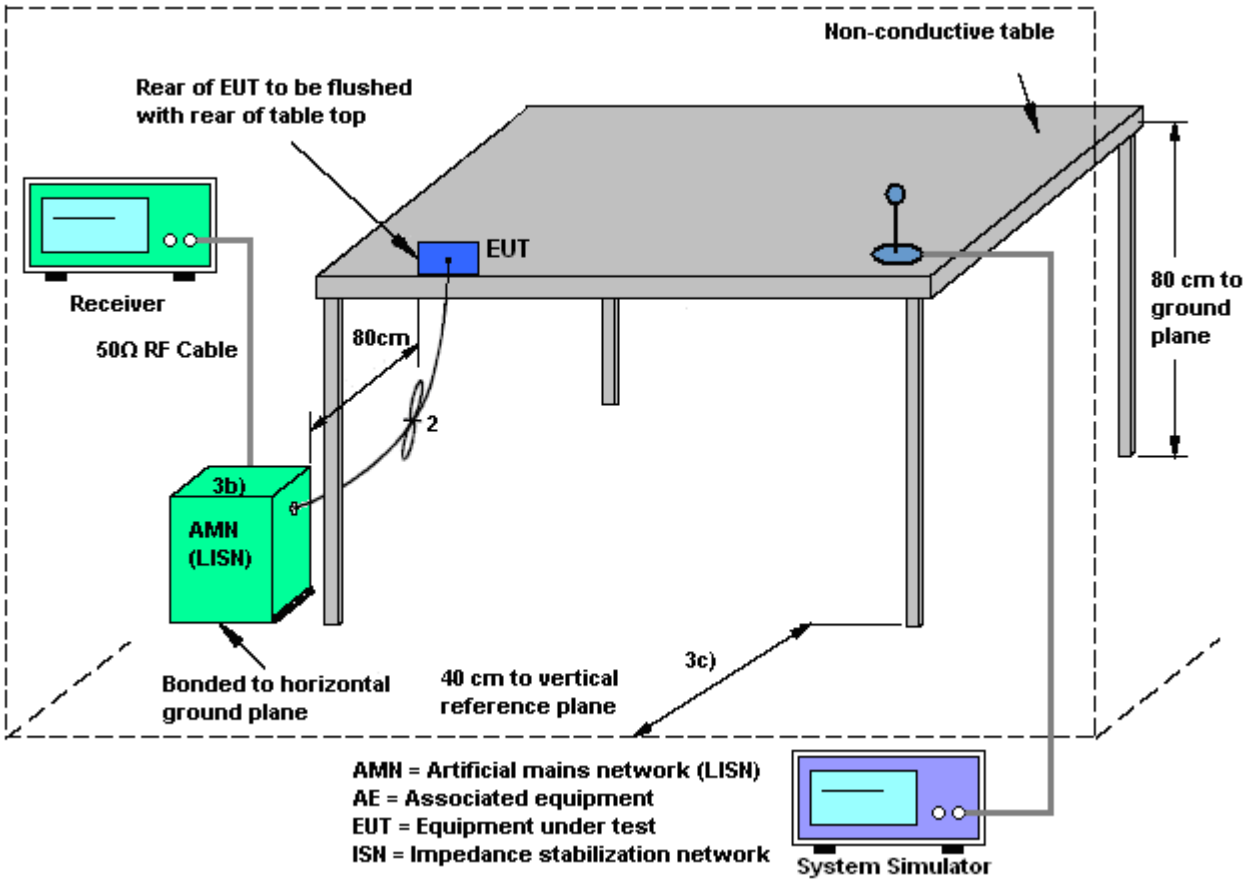
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

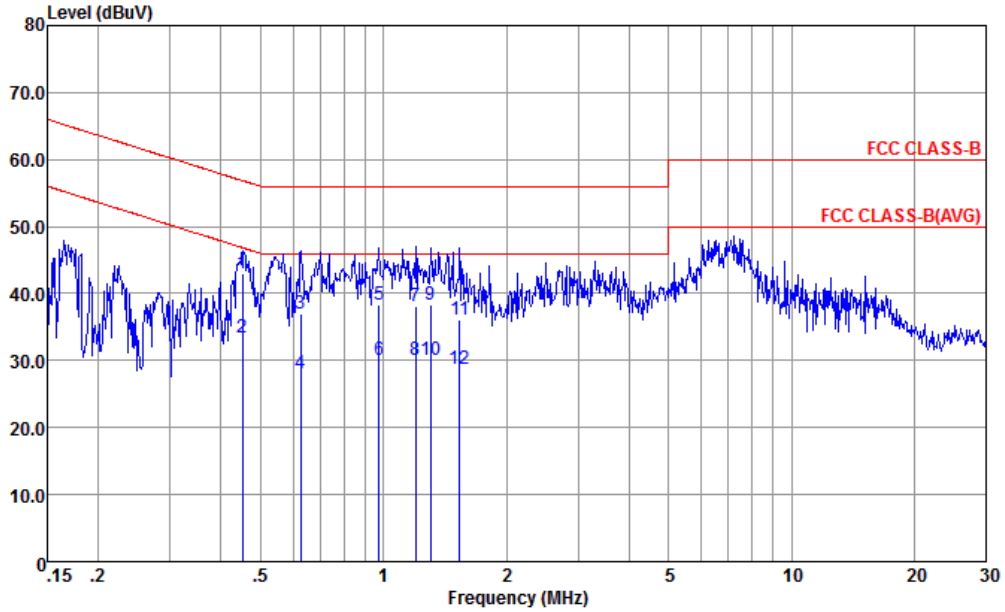
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

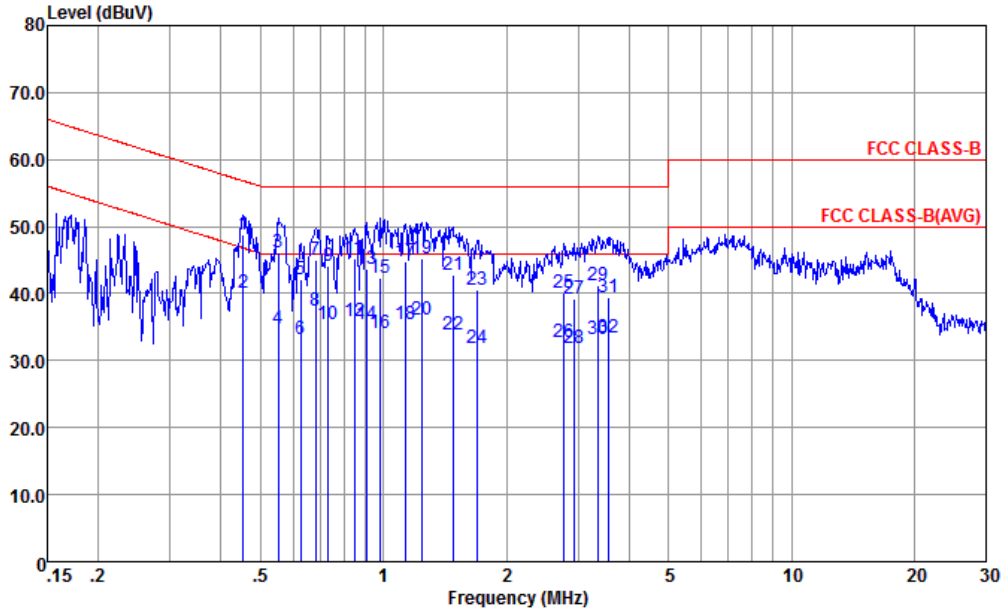
Test Mode :	Mode 3	**Temperature :**	22~24℃
Test Engineer :	Eligah Wang	**Relative Humidity :**	40~42%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + MPEG4		



Site : CO01-KS
Condition : FCC CLASS-B LISN-L-20151024 LINE
Project : (FC) 722803
mode : Mode 3
IMEI : 864237030001401

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.452	43.02	-13.83	56.85	32.60	0.23	10.19	QP
2	*	0.452	33.32	-13.53	46.85	22.90	0.23	10.19	Average
3		0.627	37.02	-18.98	56.00	26.60	0.24	10.18	QP
4		0.627	28.02	-17.98	46.00	17.60	0.24	10.18	Average
5		0.974	38.24	-17.76	56.00	27.80	0.25	10.19	QP
6		0.974	30.04	-15.96	46.00	19.60	0.25	10.19	Average
7		1.197	38.02	-17.98	56.00	27.60	0.23	10.19	QP
8		1.197	30.02	-15.98	46.00	19.60	0.23	10.19	Average
9		1.303	38.31	-17.69	56.00	27.90	0.22	10.19	QP
10		1.303	30.01	-15.99	46.00	19.60	0.22	10.19	Average
11		1.535	35.99	-20.01	56.00	25.59	0.21	10.19	QP
12		1.535	28.69	-17.31	46.00	18.29	0.21	10.19	Average

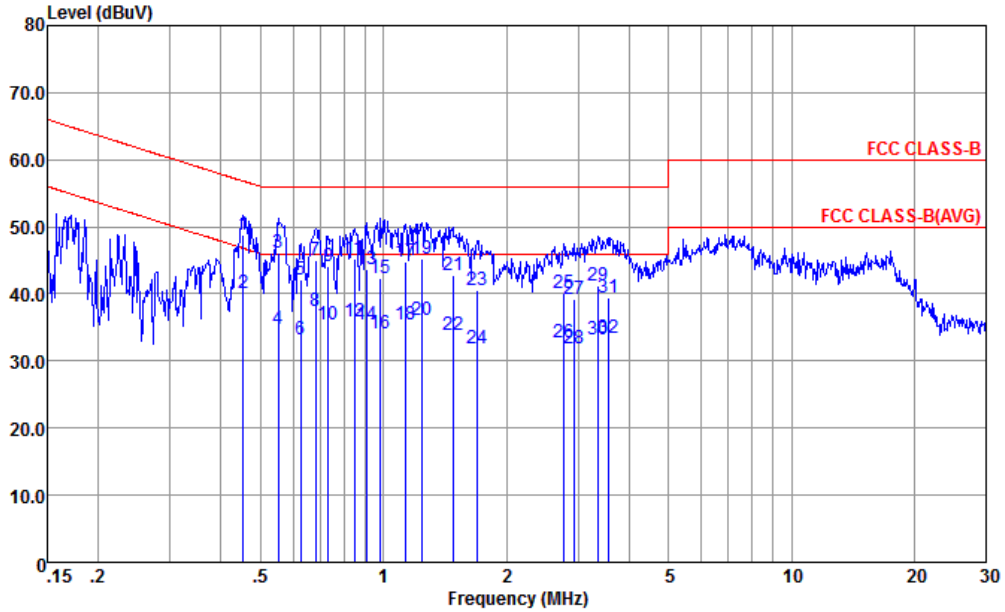
Test Mode :	Mode 3	Temperature :	22~24℃
Test Engineer :	Eligah Wang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + MPEG4		



Site : CO01-KS
Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL
Project : (FC) 722803
mode : Mode 3
IMEI : 864237030001401

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.454	48.81	-7.99	56.80	38.30	0.32	10.19	QP
2	*	0.454	40.11	-6.69	46.80	29.60	0.32	10.19	Average
3		0.552	46.11	-9.89	56.00	35.60	0.33	10.18	QP
4		0.552	34.81	-11.19	46.00	24.30	0.33	10.18	Average
5		0.627	42.11	-13.89	56.00	31.60	0.33	10.18	QP
6		0.627	33.11	-12.89	46.00	22.60	0.33	10.18	Average
7		0.683	45.12	-10.88	56.00	34.60	0.34	10.18	QP
8		0.683	37.42	-8.58	46.00	26.90	0.34	10.18	Average
9		0.731	44.12	-11.88	56.00	33.60	0.34	10.18	QP
10		0.731	35.42	-10.58	46.00	24.90	0.34	10.18	Average
11		0.848	45.13	-10.87	56.00	34.59	0.36	10.18	QP
12		0.848	35.83	-10.17	46.00	25.29	0.36	10.18	Average
13		0.914	43.65	-12.35	56.00	33.11	0.36	10.18	QP
14		0.914	35.35	-10.65	46.00	24.81	0.36	10.18	Average
15		0.984	42.36	-13.64	56.00	31.80	0.37	10.19	QP
16		0.984	34.16	-11.84	46.00	23.60	0.37	10.19	Average
17		1.129	44.86	-11.14	56.00	34.30	0.37	10.19	QP

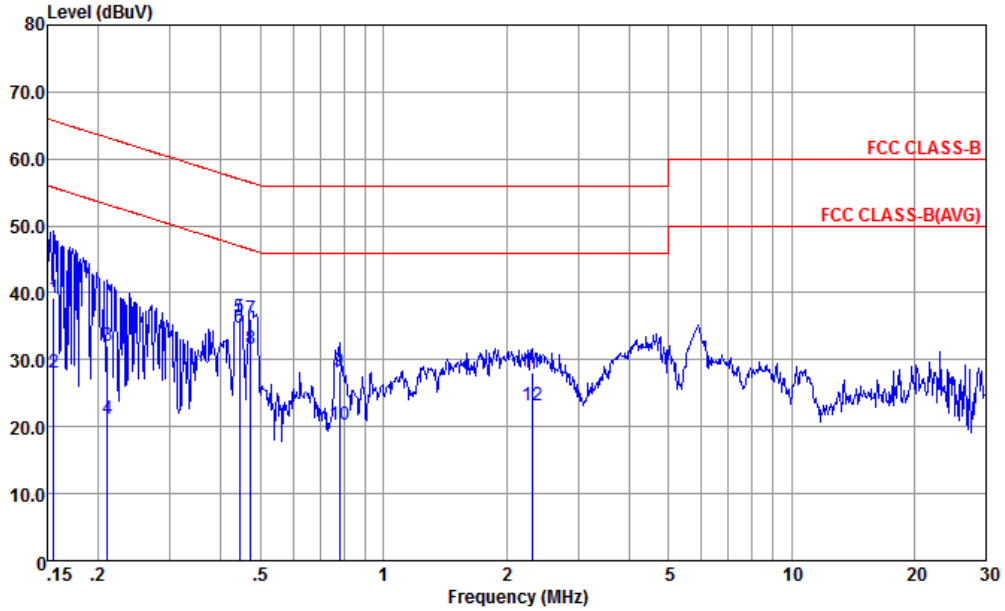
Test Mode :	Mode 3	Temperature :	22~24℃
Test Engineer :	Eligah Wang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Battery + MPEG4		



Site : CO01-KS
Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL
Project : (FC) 722803
mode : Mode 3
IMEI : 864237030001401

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
18	1.129	35.46	-10.54	46.00	24.90	0.37	10.19	Average
19	1.242	45.16	-10.84	56.00	34.60	0.37	10.19	QP
20	1.242	36.16	-9.84	46.00	25.60	0.37	10.19	Average
21	1.480	42.86	-13.14	56.00	32.29	0.38	10.19	QP
22	1.480	33.86	-12.14	46.00	23.29	0.38	10.19	Average
23	1.698	40.67	-15.33	56.00	30.10	0.38	10.19	QP
24	1.698	31.87	-14.13	46.00	21.30	0.38	10.19	Average
25	2.765	40.18	-15.82	56.00	29.60	0.37	10.21	QP
26	2.765	32.78	-13.22	46.00	22.20	0.37	10.21	Average
27	2.946	39.19	-16.81	56.00	28.60	0.37	10.22	QP
28	2.946	31.89	-14.11	46.00	21.30	0.37	10.22	Average
29	3.346	41.19	-14.81	56.00	30.59	0.37	10.23	QP
30	3.346	33.19	-12.81	46.00	22.59	0.37	10.23	Average
31	3.547	39.50	-16.50	56.00	28.90	0.37	10.23	QP
32	3.547	33.50	-12.50	46.00	22.90	0.37	10.23	Average

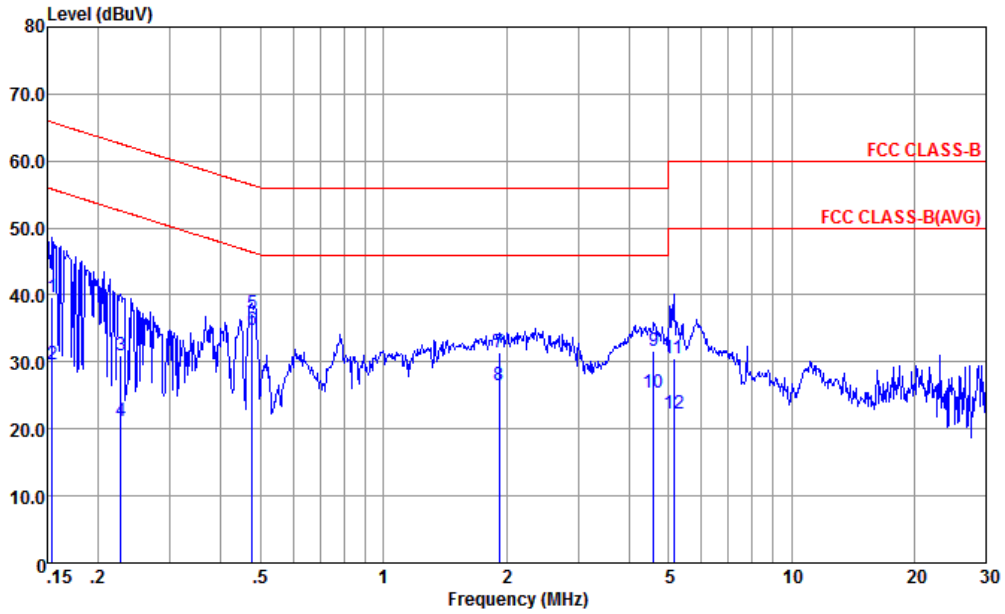
Test Mode :	Mode 4	Temperature :	22~24℃
Test Engineer :	Eligah Wang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery + GPS Rx		



Site : CO01-KS
Condition : FCC CLASS-B LISN-L-20151024 LINE
Project : (FC) 722803
mode : Mode 4
IMEI : 864237030001401

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.156	39.18	-26.51	65.69	28.30	0.49	10.39	QP
2		0.156	28.18	-27.51	55.69	17.30	0.49	10.39	Average
3		0.211	32.14	-31.04	63.18	21.60	0.22	10.32	QP
4		0.211	21.14	-32.04	53.18	10.60	0.22	10.32	Average
5		0.444	36.32	-20.66	56.98	25.90	0.23	10.19	QP
6	*	0.444	34.72	-12.26	46.98	24.30	0.23	10.19	Average
7		0.474	36.02	-20.43	56.45	25.60	0.23	10.19	QP
8		0.474	31.72	-14.73	46.45	21.30	0.23	10.19	Average
9		0.779	28.32	-27.68	56.00	17.91	0.24	10.17	QP
10		0.779	20.32	-25.68	46.00	9.91	0.24	10.17	Average
11		2.309	27.98	-28.02	56.00	17.60	0.18	10.20	QP
12		2.309	23.28	-22.72	46.00	12.90	0.18	10.20	Average

Test Mode :	Mode 4	Temperature :	22~24℃
Test Engineer :	Eligah Wang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery + GPS Rx		



Site : CO01-KS
Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL
Project : (FC) 722803
mode : Mode 4
IMEI : 864237030001401

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.154	39.59	-26.19	65.78	28.90	0.30	10.39	QP
2	0.154	29.59	-26.19	55.78	18.90	0.30	10.39	Average
3	0.227	30.92	-31.65	62.57	20.30	0.31	10.31	QP
4	0.227	21.22	-31.35	52.57	10.60	0.31	10.31	Average
5	0.476	37.11	-19.30	56.41	26.60	0.32	10.19	QP
6 *	0.476	34.81	-11.60	46.41	24.30	0.32	10.19	Average
7	1.918	31.47	-24.53	56.00	20.90	0.38	10.19	QP
8	1.918	26.47	-19.53	46.00	15.90	0.38	10.19	Average
9	4.598	31.70	-24.30	56.00	21.10	0.36	10.24	QP
10	4.598	25.50	-20.50	46.00	14.90	0.36	10.24	Average
11	5.139	30.50	-29.50	60.00	19.89	0.36	10.25	QP
12	5.139	22.20	-27.80	50.00	11.59	0.36	10.25	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

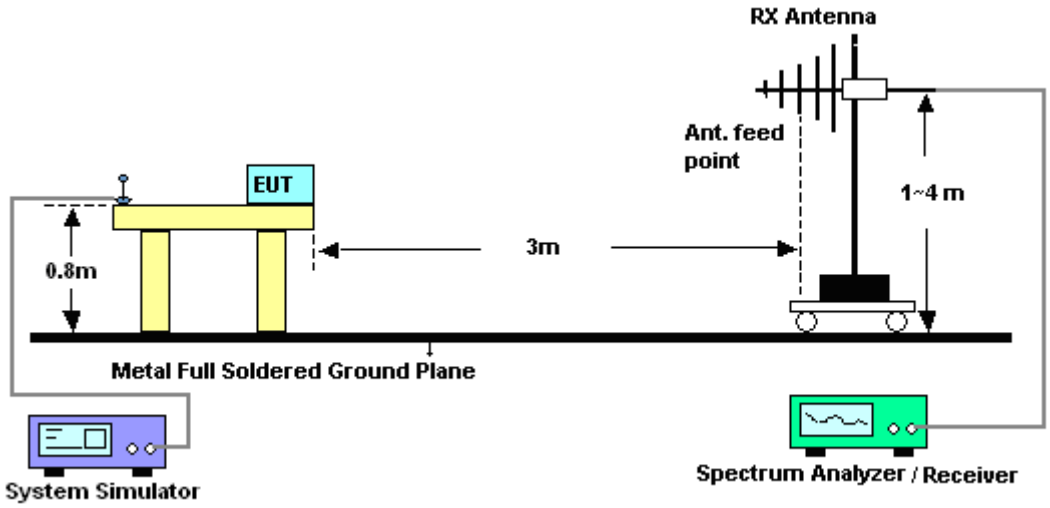
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

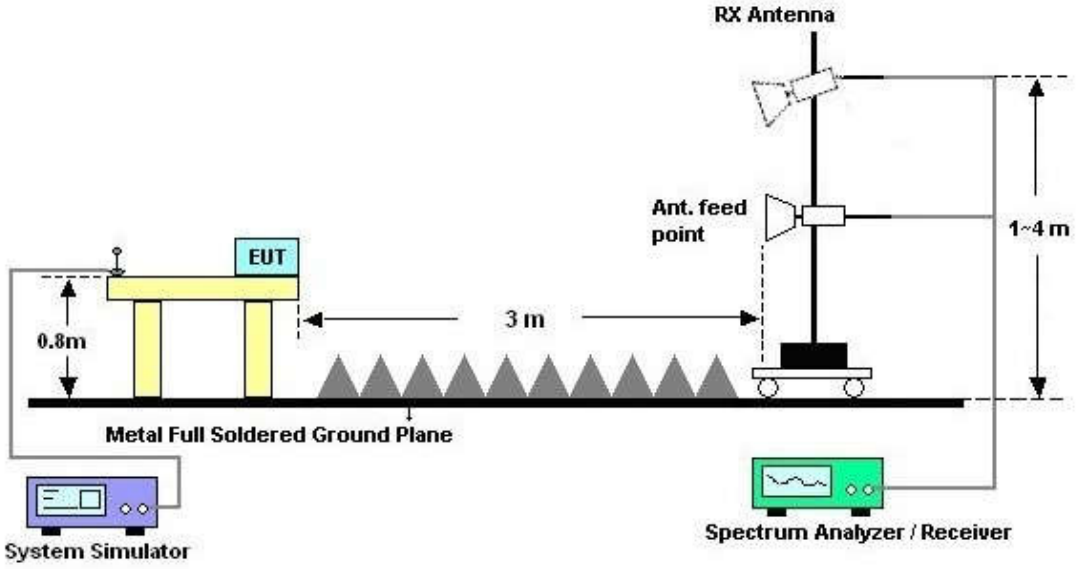
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

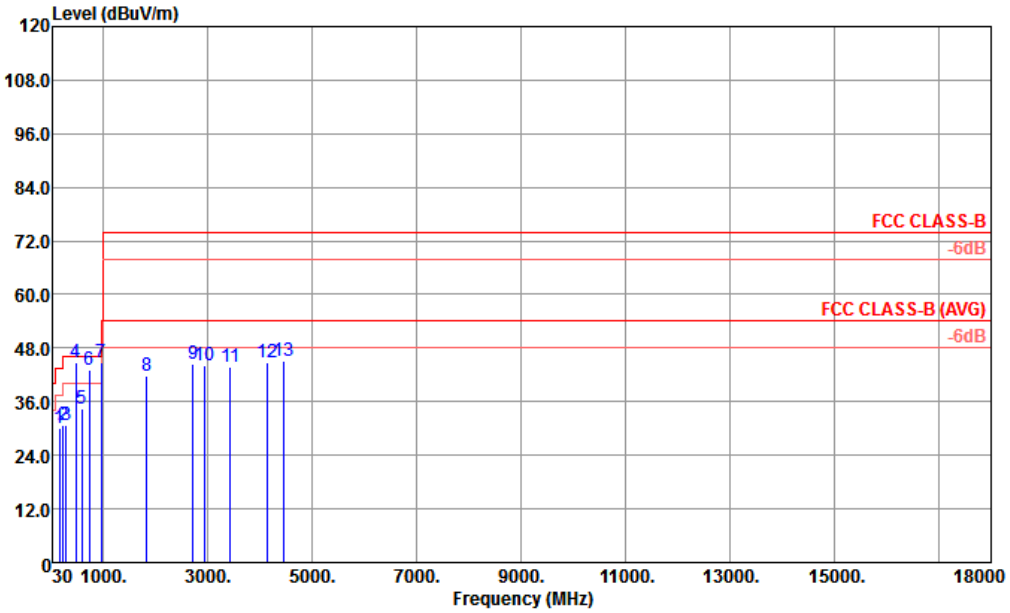


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

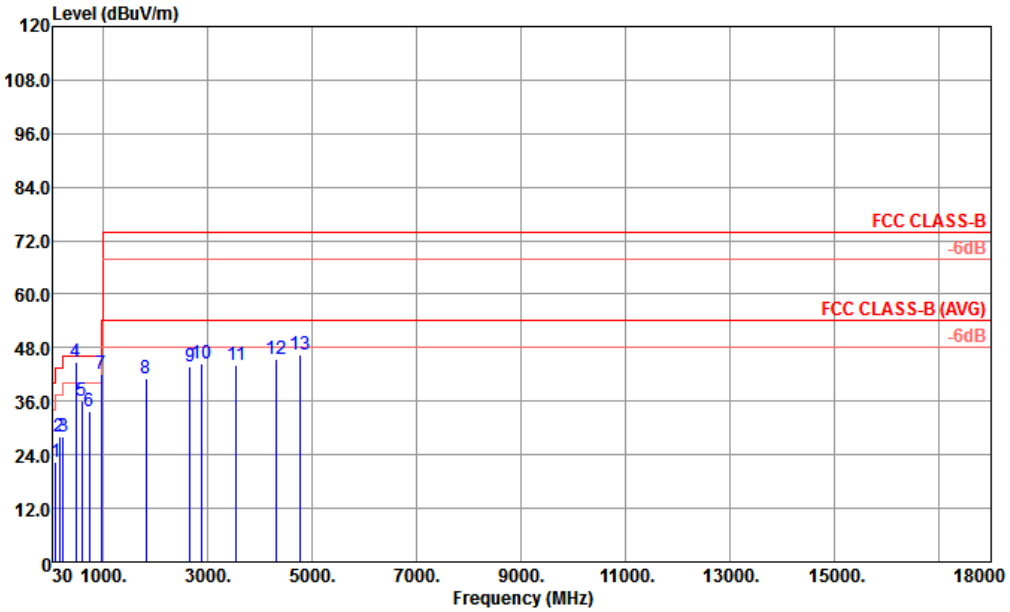
Test Mode :	Mode 4	**Temperature :**	21~22°C
Test Engineer :	Carl Ni	**Relative Humidity :**	41~42%
Test Distance :	3m	**Polarization :**	Horizontal
Function Type :	LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery + GPS Rx		
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH02-KS
Condition : FCC CLASS-B 3m 966-02 LF ANT HORIZONTAL
Project : (FC) 722803
Mode : 4
IMEI : 864237030001674 #4

		Freq	Level	Over Limit	Limit Line	Read 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		171.48	30.08	-13.42	43.50	44.55	16.63	0.36	31.46	---	---	Peak
2		240.06	30.67	-15.33	46.00	44.27	17.00	0.49	31.09	---	---	Peak
3		298.92	30.61	-15.39	46.00	42.96	17.79	0.60	30.74	---	---	Peak
4	!	479.90	44.88	-1.12	46.00	50.29	23.37	0.92	29.70	100	305	QP
5		599.60	34.48	-11.52	46.00	38.14	24.34	0.90	28.90	---	---	Peak
6	!	738.90	42.96			43.37	26.33	1.32	28.06	---	---	Peak
7	!	959.90	44.92	-1.08	46.00	40.90	28.66	1.75	26.39	100	0	QP
8		1830.00	41.74	-32.26	74.00	43.27	29.40	4.57	35.50	---	---	Peak
9		2722.00	44.42	-29.58	74.00	38.52	31.92	3.01	29.03	---	---	Peak
10		2956.00	44.25	-29.75	74.00	37.35	32.47	3.04	28.61	---	---	Peak
11		3444.00	43.95	-30.05	74.00	35.24	33.72	5.96	30.97	---	---	Peak
12		4155.00	44.81	-29.19	74.00	35.09	35.08	6.53	31.89	---	---	Peak
13		4455.00	45.07	-28.93	74.00	36.28	35.27	4.73	31.21	---	---	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 12 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Battery + GPS Rx		
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH02-KS
Condition : FCC CLASS-B 3m 966-02 LF ANT VERTICAL
Project : (FC) 722803
Mode : 4
IMEI : 864237030001674 #4

		Freq	Level	Over Limit	Limit Line	Read 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		88.86	22.46	-21.04	43.50	37.15	16.75	0.21	31.65	---	---	Peak
2		171.48	28.02	-15.48	43.50	42.49	16.63	0.36	31.46	---	---	Peak
3		240.06	27.96	-18.04	46.00	41.56	17.00	0.49	31.09	---	---	Peak
4	!	479.90	44.78	-1.22	46.00	50.19	23.37	0.92	29.70	120	40	QP
5		599.60	36.23	-9.77	46.00	39.89	24.34	0.90	28.90	---	---	Peak
6		735.40	33.81			34.21	26.36	1.31	28.07	---	---	Peak
7	!	959.90	42.08	-3.92	46.00	38.06	28.66	1.75	26.39	---	---	Peak
8		1818.00	41.23	-32.77	74.00	42.90	29.37	4.57	35.61	---	---	Peak
9		2670.00	43.95	-30.05	74.00	39.36	31.82	3.21	30.44	---	---	Peak
10		2874.00	44.61	-29.39	74.00	37.44	32.27	2.85	27.95	---	---	Peak
11		3552.00	44.09	-29.91	74.00	35.22	33.84	6.05	31.02	---	---	Peak
12		4317.00	45.36	-28.64	74.00	36.19	35.18	5.55	31.56	---	---	Peak
13		4779.00	46.34	-27.66	74.00	38.21	35.03	6.00	32.90	---	---	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. 01, 2017	Apr. 28, 2017	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2016	Apr. 01, 2017	Oct. 12, 2017	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2016	Apr. 01, 2017	Oct. 12, 2017	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 13, 2016	Apr. 01, 2017	Oct. 12, 2017	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 09, 2016	Mar. 14, 2017	Aug. 08, 2017	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz, MAX 30dB	Apr. 22, 2016	Mar. 14, 2017	Apr. 21, 2017	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz~2GHz	Aug. 20, 2016	Mar. 14, 2017	Aug. 19, 2017	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 22, 2016	Mar. 14, 2017	Oct. 21, 2017	Radiation (03CH02-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 15, 2017	Mar. 14, 2017	Feb. 14, 2018	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18GHz~40GHz	Oct. 13, 2016	Mar. 14, 2017	Oct. 12, 2017	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	Apr. 22, 2016	Mar. 14, 2017	Apr. 21, 2017	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 13, 2016	Mar. 14, 2017	Oct. 12, 2017	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Mar. 14, 2017	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Mar. 14, 2017	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Mar. 14, 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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7dB