FCC Test Report

APPLICANT	:	ZTE CORPORATION
EQUIPMENT	:	LTE/CDMA Multi-Mode Digital Mobile Phone
BRAND NAME	:	ZTE
MODEL NAME	:	Z2321U
FCC ID	:	SRQ-Z2321U
STANDARD	:	FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	:	Certification

The product was received on Nov. 28, 2017 and testing was completed on Dec. 15, 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.

Eric Shih

Approved by: Eric Shih / Manager

NVLAP TESTING
NVLAP LAB CODE 600156-0

Sporton International (Shenzhen) Inc.
1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City
Guangdong Province 518055 China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC7N2813	Rev. 01	Initial issue of report	Jan. 23, 2018

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 10.51 dB at 1.520 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 5.17 dB at 250.190 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/CDMA Multi-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z2321U
FCC ID	SRQ-Z2321U
EUT supports Radios application	CDMA/EV-DO/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth v2.1 EDR / Bluetooth v4.0 LE / Bluetooth v4.2 LE
IMEI Code	Conduction: 990008990004850 Radiation: 990008990004579
HW Version	Z2321UHW1.0
SW Version	Z2321UV1.0.0B01
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	
Tx Frequency	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 LTE Band 25 : 1850.7 MHz ~ 1914.3 MHz CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency	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 LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz FM : 88MHz ~ 108MHz
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GNSS : PIFA Antenna FM : External Headset Antenna
Type of Modulation	LTE: QPSK / 16QAM CDMA2000 : QPSK CDMA2000 1xEV-DO : 8PSK 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 GNSS : BPSK FM

GNSS Rx = GPS Rx +Glonass Rx

1.5. Modification of EUT

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

1.6. Test Location

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No. are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	**Sporton Site No.**	**FCC Test Firm Registration No.**
	CO01-SZ	251365

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District Shenzhen City Guangdong Province 518055 China TEL: +86-755-3320-2398	
Test Site No.	**Sporton Site No.**	**FCC Test Firm Registration No.**
	03CH01-SZ	577730

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

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.

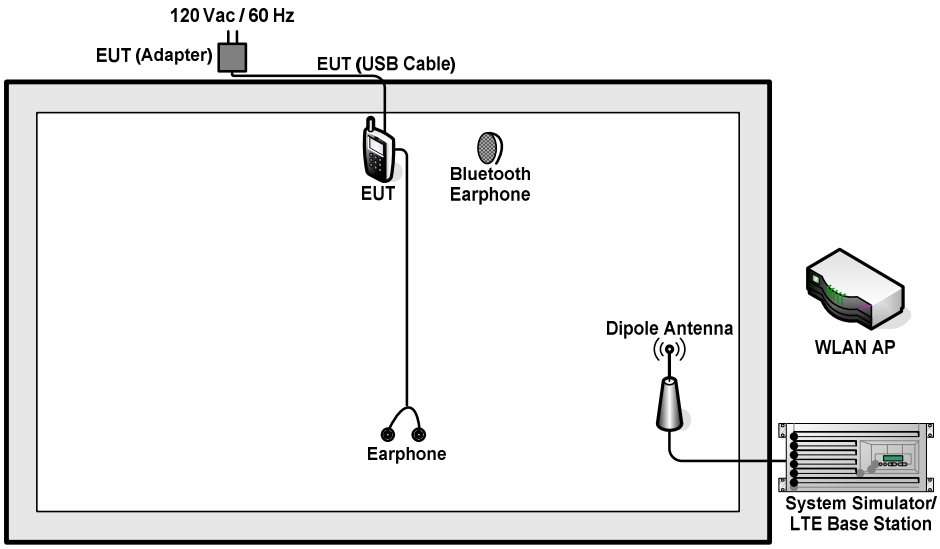
Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1 : CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera(Rear) <Fig.1> Mode 2 : CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + FM Rx(98MHz) <Fig.2> Mode 3 : LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4<Fig.1> Mode 4 : LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx<Fig.3>
Radiated Emissions < 1GHz	Mode 1 : CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + Camera(Rear) <Fig.1> Mode 2 : CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + FM Rx(98MHz) <Fig.2> Mode 3 : LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4<Fig.1> Mode 4 : LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx<Fig.3>
Radiated Emissions ≥ 1GHz	Mode 1 : LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4<Fig.1> Mode 2 : LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx<Fig.3>

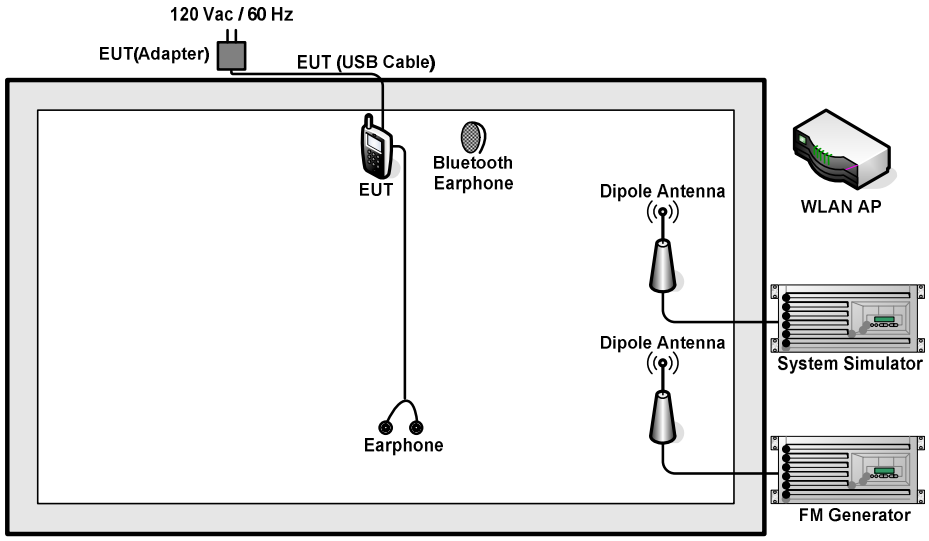
Remark:

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

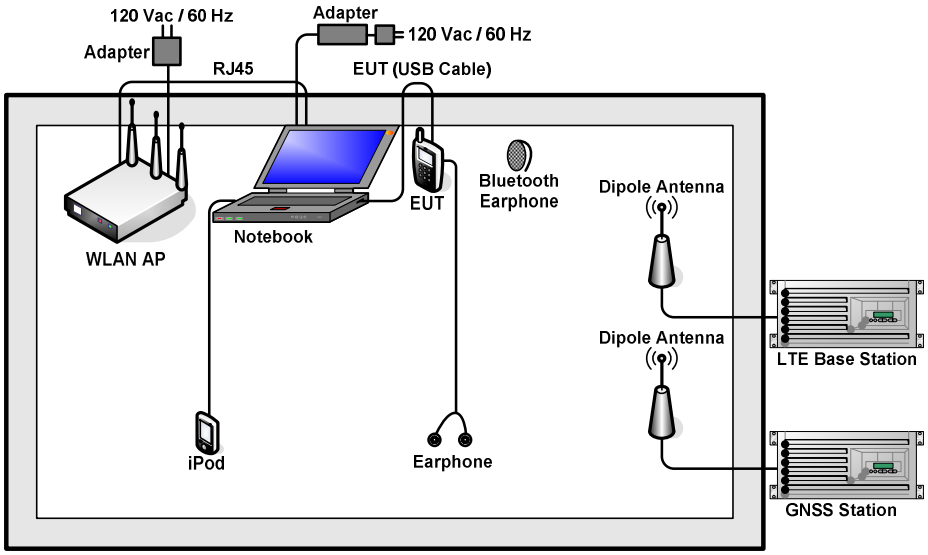
2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>


120 Vac / 60 Hz
Adapter
Adapter
120 Vac / 60 Hz
RJ45
EUT (USB Cable)
WLAN AP
Notebook
EUT
Bluetooth
Earphone
Dipole Antenna
Dipole Antenna
LTE Base Station
iPod
Earphone
GNSS Station

<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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	FM Generator	R&S	SMB100A	Fcc DoC	N/A	Shielded, 1.5m
4.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
5.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
6.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
7.	Bluetooth Earphone	Samsung	EO-MG900	CCAH14LP1680T5	N/A	N/A
8.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
9.	GNSS Station	RACELOGIC	18645	N/A	N/A	Unshielded,1.8m
10.	SD Card	N/A	MicroSD HC	FCC DoC	N/A	N/A
11.	SD Card	Kingston	SDC4/16GB 122	FCC DoC	N/A	N/A
12.	iPod	Apple	MC525 ZP/A	DoC	Shielded, 1.0m	N/A
13.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2m	N/A
14.	Earphone	Apple	MC690ZP/A	N/A	Unshielded,1.6m	N/A

2.4. EUT Operation Test Setup

The EUT was in LTE or CDMA2000 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 GNSS function to make the EUT receive continuous signals from GNSS station.
3. Execute "Video Player" to play MPEG4 files.
4. Turn on camera to capture images.
5. Turn on FM 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.

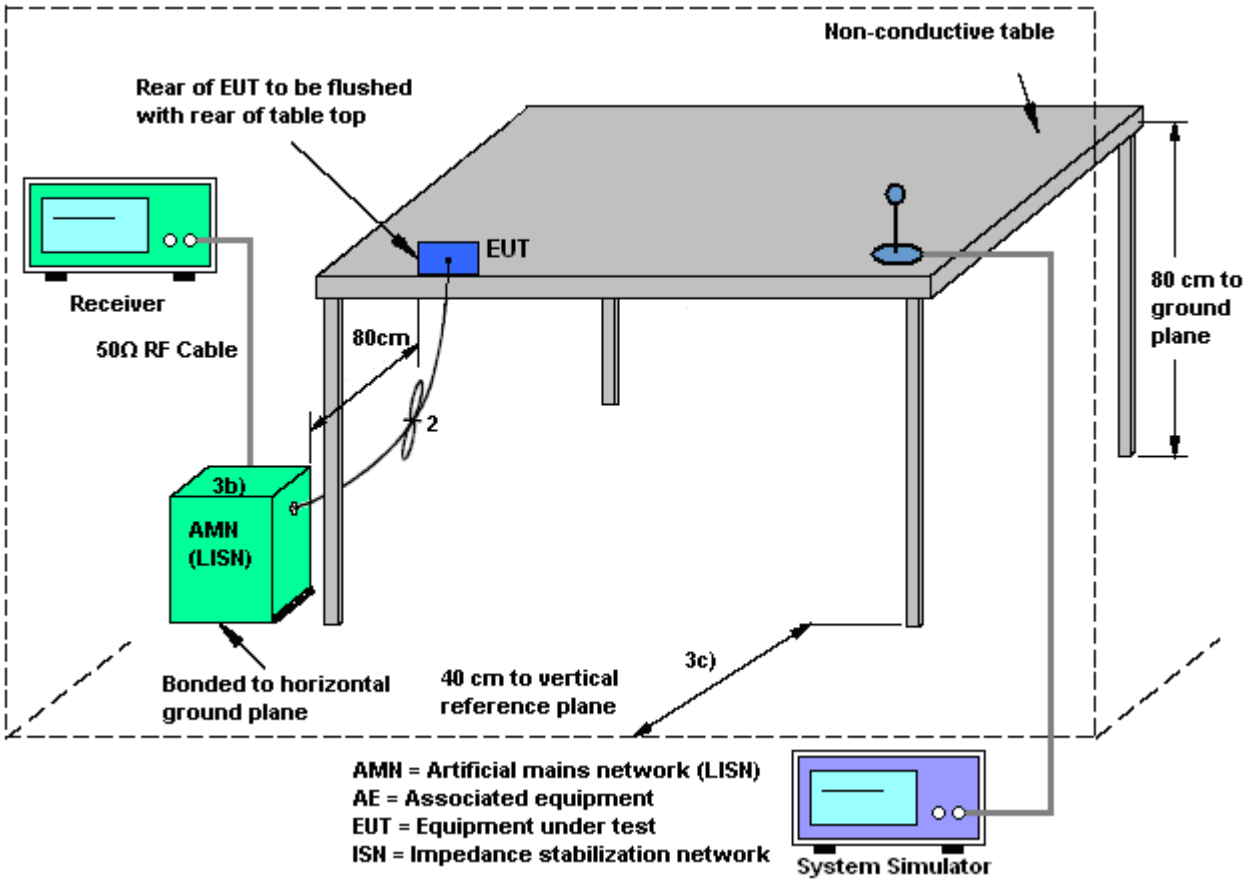
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

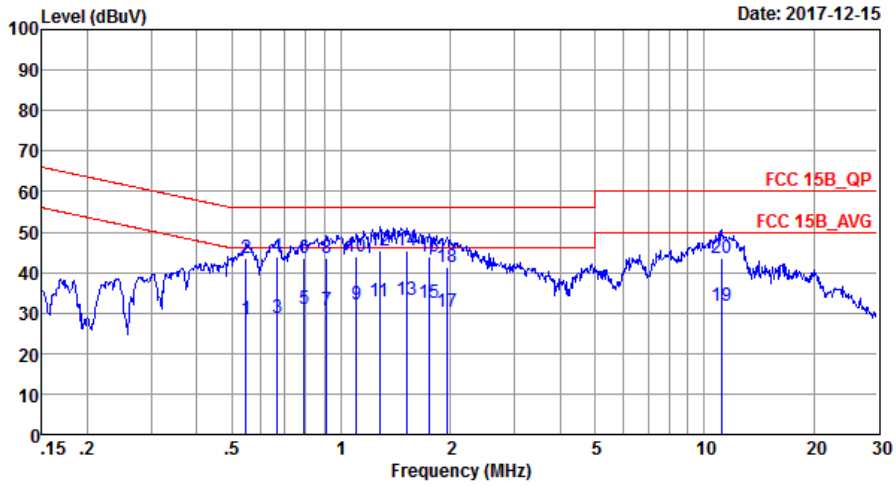
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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 3	Temperature :	22~25℃
Test Engineer :	Peng Wang	Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4		

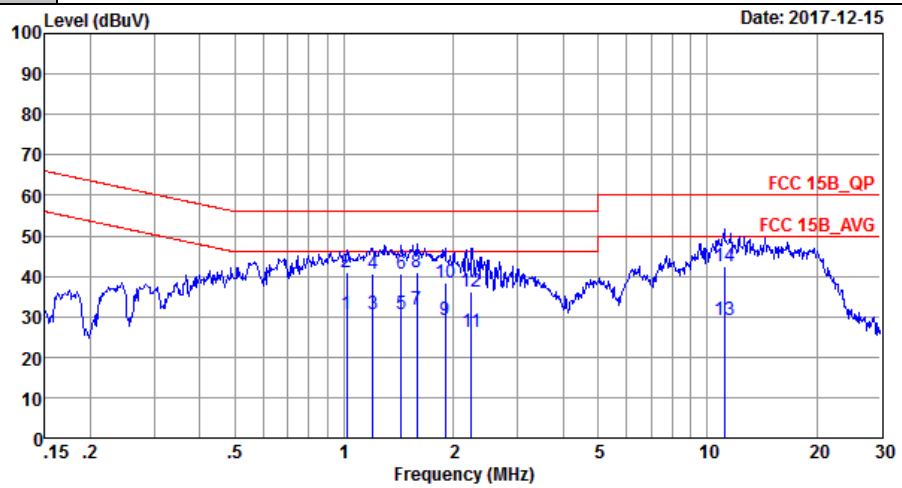


Site : CO01-SZ
Condition: FCC 15B_QP LISN_20170907_L LINE

Mode : Mode 3
IMEI : 990008990004850

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.55	28.50	-17.50	46.00	18.40	0.02	10.08	Average
2		0.55	43.60	-12.40	56.00	33.50	0.02	10.08	QP
3		0.67	28.70	-17.30	46.00	18.60	0.02	10.08	Average
4		0.67	44.00	-12.00	56.00	33.90	0.02	10.08	QP
5		0.79	30.92	-15.08	46.00	20.80	0.04	10.08	Average
6		0.79	43.62	-12.38	56.00	33.50	0.04	10.08	QP
7		0.91	30.75	-15.25	46.00	20.60	0.06	10.09	Average
8		0.91	43.55	-12.45	56.00	33.40	0.06	10.09	QP
9		1.10	32.27	-13.73	46.00	22.10	0.08	10.09	Average
10		1.10	43.87	-12.13	56.00	33.70	0.08	10.09	QP
11		1.28	32.88	-13.12	46.00	22.70	0.08	10.10	Average
12		1.28	45.28	-10.72	56.00	35.10	0.08	10.10	QP
13		1.52	33.09	-12.91	46.00	22.90	0.09	10.10	Average
14	*	1.52	45.49	-10.51	56.00	35.30	0.09	10.10	QP
15		1.74	32.41	-13.59	46.00	22.21	0.10	10.10	Average
16		1.74	44.01	-11.99	56.00	33.81	0.10	10.10	QP
17		1.96	30.12	-15.88	46.00	19.90	0.11	10.11	Average
18		1.96	41.42	-14.58	56.00	31.20	0.11	10.11	QP
19		11.20	31.56	-18.44	50.00	20.80	0.40	10.36	Average
20		11.20	43.46	-16.54	60.00	32.70	0.40	10.36	QP

Test Mode :	Mode 3	Temperature :	22~25℃
Test Engineer :	Peng Wang	Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4		

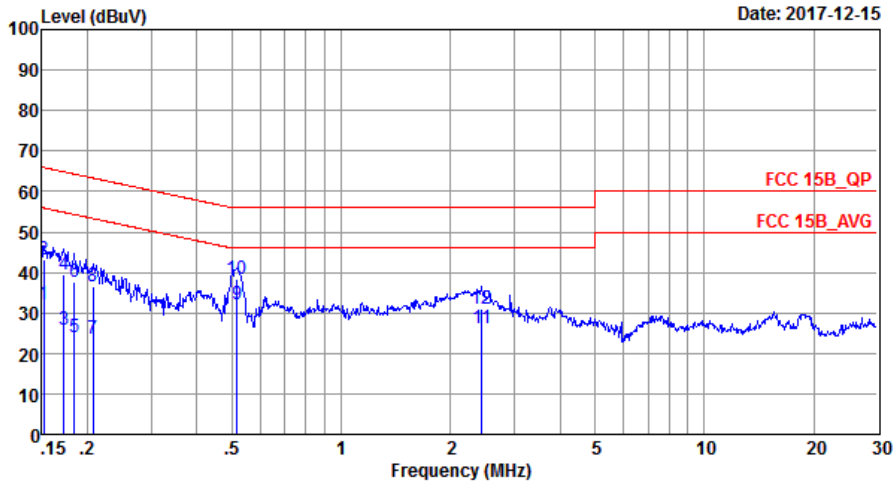


Site : CO01-SZ
Condition: FCC 15B_QP LISN_20170907_N NEUTRAL

Mode : Mode 3
IMEI : 990008990004850

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		1.02	30.74	-15.26	46.00	20.60	0.05	10.09	Average
2		1.02	40.94	-15.06	56.00	30.80	0.05	10.09	QP
3		1.20	30.64	-15.36	46.00	20.50	0.05	10.09	Average
4		1.20	40.74	-15.26	56.00	30.60	0.05	10.09	QP
5		1.43	30.55	-15.45	46.00	20.40	0.05	10.10	Average
6		1.43	40.45	-15.55	56.00	30.30	0.05	10.10	QP
7	*	1.59	31.75	-14.25	46.00	21.60	0.05	10.10	Average
8		1.59	40.95	-15.05	56.00	30.80	0.05	10.10	QP
9		1.90	29.06	-16.94	46.00	18.90	0.05	10.11	Average
10		1.90	38.56	-17.44	56.00	28.40	0.05	10.11	QP
11		2.24	26.06	-19.94	46.00	15.90	0.04	10.12	Average
12		2.24	36.26	-19.74	56.00	26.10	0.04	10.12	QP
13		11.14	29.26	-20.74	50.00	18.70	0.20	10.36	Average
14		11.14	42.26	-17.74	60.00	31.70	0.20	10.36	QP

Test Mode :	Mode 4	Temperature :	22~25℃
Test Engineer :	Peng Wang	Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx		

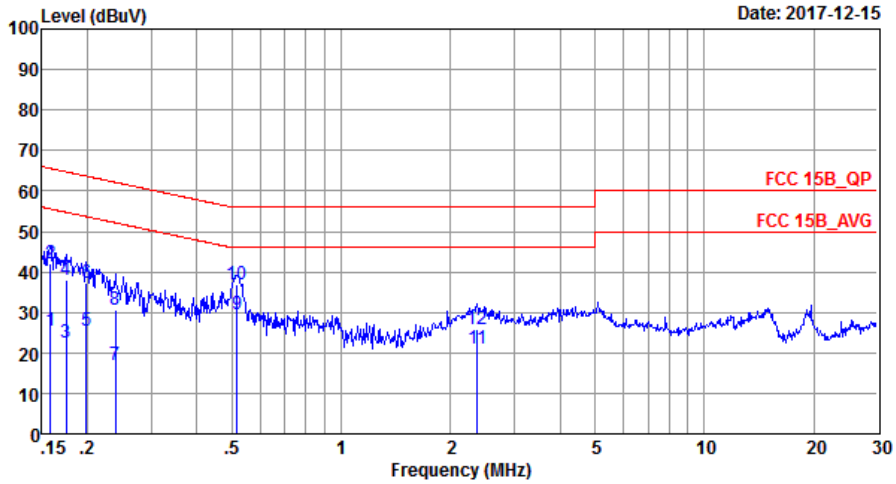


Site : CO01-SZ
Condition: FCC 15B_QP LISN_20170907_L LINE

Mode : Mode 4
IMEI : 990008990004850

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.15	32.19	-23.72	55.91	22.10	0.03	10.06	Average
2		0.15	43.29	-22.62	65.91	33.20	0.03	10.06	QP
3		0.17	26.00	-28.86	54.86	15.90	0.03	10.07	Average
4		0.17	39.40	-25.46	64.86	29.30	0.03	10.07	QP
5		0.18	23.90	-30.38	54.28	13.80	0.03	10.07	Average
6		0.18	37.80	-26.48	64.28	27.70	0.03	10.07	QP
7		0.21	23.60	-29.72	53.32	13.50	0.03	10.07	Average
8		0.21	36.40	-26.92	63.32	26.30	0.03	10.07	QP
9	*	0.52	32.00	-14.00	46.00	21.90	0.02	10.08	Average
10		0.52	38.20	-17.80	56.00	28.10	0.02	10.08	QP
11		2.43	26.16	-19.84	46.00	15.91	0.13	10.12	Average
12		2.43	30.96	-25.04	56.00	20.71	0.13	10.12	QP

Test Mode :	Mode 4	Temperature :	22~25℃
Test Engineer :	Peng Wang	Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_20170907_N NEUTRAL

Mode : Mode 4
IMEI : 990008990004850

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	25.39	-30.17	55.56	15.30	0.03	10.06	Average
2		0.16	41.89	-23.67	65.56	31.80	0.03	10.06	QP
3		0.17	22.40	-32.32	54.72	12.30	0.03	10.07	Average
4		0.17	37.90	-26.82	64.72	27.80	0.03	10.07	QP
5		0.20	25.30	-28.37	53.67	15.20	0.03	10.07	Average
6		0.20	37.30	-26.37	63.67	27.20	0.03	10.07	QP
7		0.24	17.00	-35.13	52.13	6.90	0.03	10.07	Average
8		0.24	30.70	-31.43	62.13	20.60	0.03	10.07	QP
9	*	0.52	29.60	-16.40	46.00	19.50	0.02	10.08	Average
10		0.52	36.80	-19.20	56.00	26.70	0.02	10.08	QP
11		2.37	20.86	-25.14	46.00	10.70	0.04	10.12	Average
12		2.37	25.76	-30.24	56.00	15.60	0.04	10.12	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

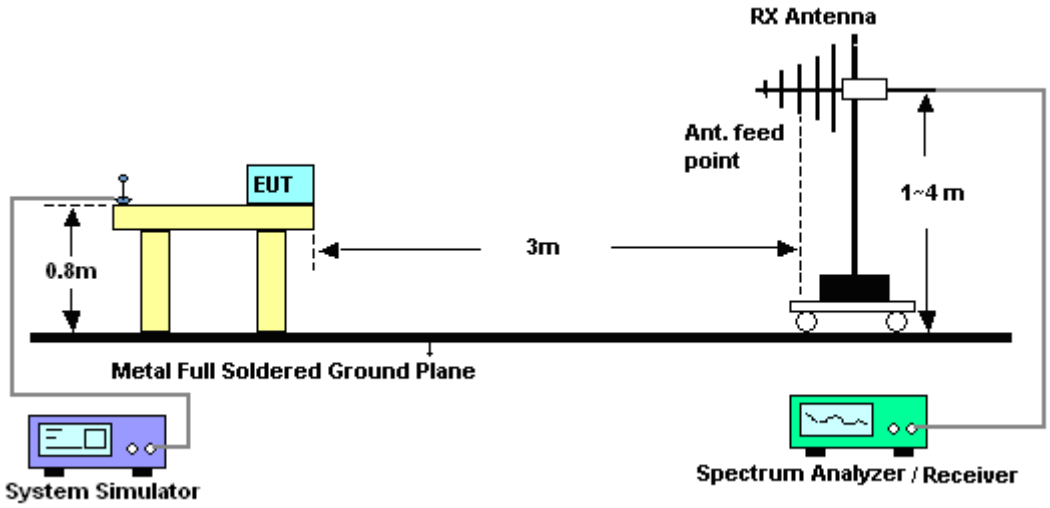
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

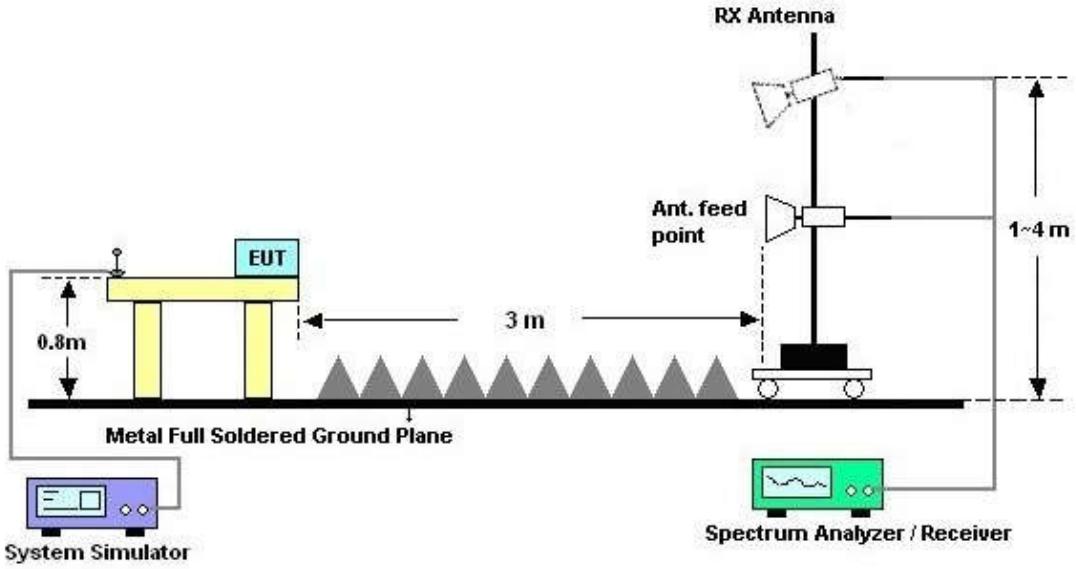
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

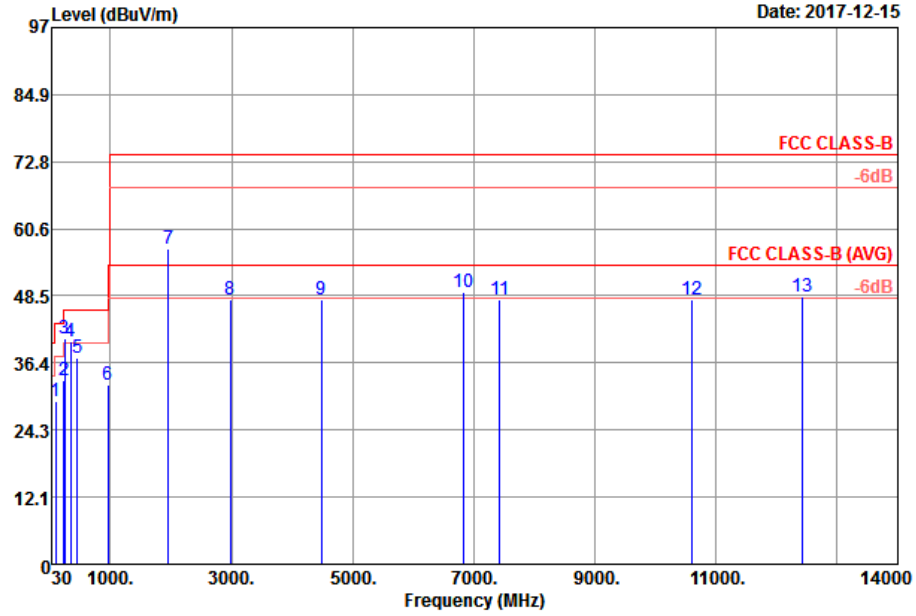


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 3	**Temperature :**	24~25℃
Test Engineer :	Clear Peng	**Relative Humidity :**	48~49%
Test Distance :	3m	**Polarization :**	Horizontal
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4		
Remark :	#7 is system simulator signal which can be ignored.		

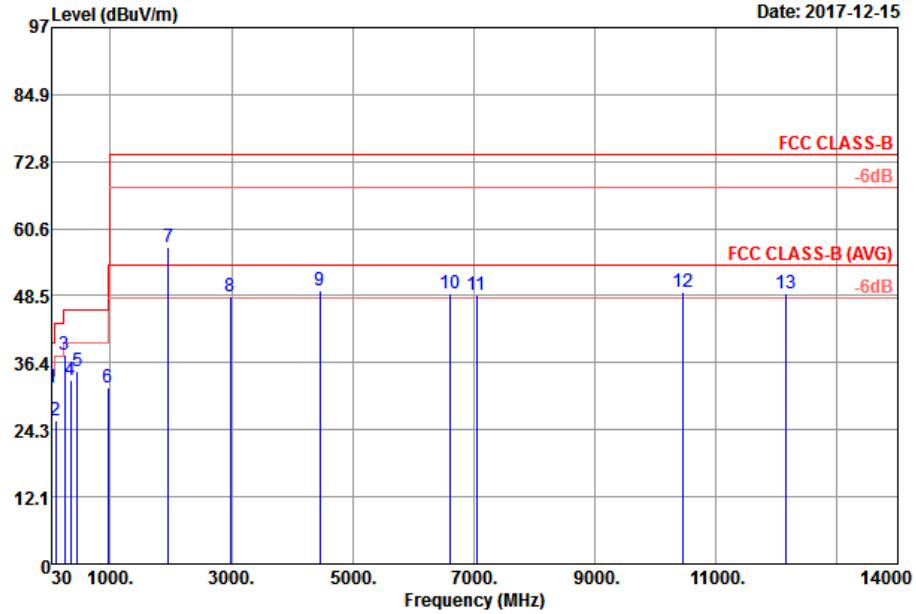


Site : 03CH01-SZ
Condition : FCC CLASS-B 3m HF_ANT(3117)_119436 HORIZONTAL

Mode : Mode 3

		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		101.78	29.34	-14.16	43.50	41.39	18.58	0.87	31.50	---	---	Peak
2		228.85	33.28	-12.72	46.00	43.38	19.22	1.76	31.08	---	---	Peak
3	!	250.19	40.83	-5.17	46.00	49.57	20.40	1.86	31.00	100	0	Peak
4	!	350.10	40.36	-5.64	46.00	47.84	21.40	2.22	31.10	---	---	Peak
5		450.01	37.24	-8.76	46.00	39.07	26.70	2.57	31.10	---	---	Peak
6		957.32	32.53	-13.47	46.00	30.00	29.87	3.98	31.32	---	---	Peak
7		1960.00	56.94			83.18	26.07	6.03	58.34	---	---	Peak
8		2982.00	47.96	-26.04	74.00	67.81	28.56	8.91	57.32	---	---	Peak
9		4488.00	47.89	-26.11	74.00	64.76	31.35	10.54	58.76	---	---	Peak
10		6832.00	49.30	-24.70	74.00	57.67	34.65	15.59	58.61	100	0	Peak
11		7422.00	47.77	-26.23	74.00	56.57	35.68	13.06	57.54	---	---	Peak
12		10598.00	47.95	-26.05	74.00	52.06	37.16	14.67	55.94	---	---	Peak
13		12434.00	48.34	-25.66	74.00	50.83	38.59	15.06	56.14	---	---	Peak

Test Mode :	Mode 3	Temperature :	24~25℃
Test Engineer :	Clear Peng	Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 2 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable (Charging from Adapter) + Earphone + MPEG4		
Remark :	#7 is system simulator signal which can be ignored.		

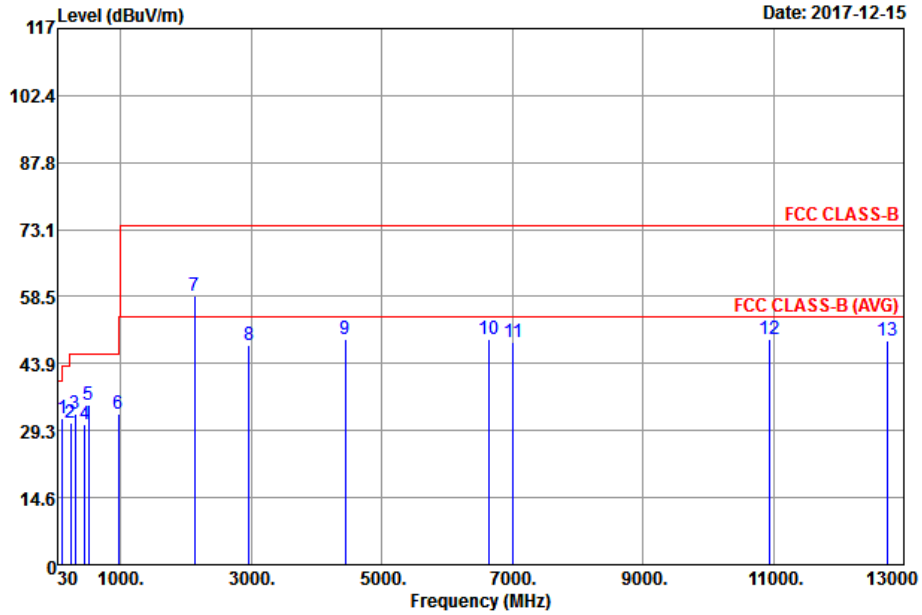


Site : 03CH01-SZ
Condition : FCC CLASS-B 3m HF_ANT(3117)_119436 VERTICAL

Mode : Mode 3

	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	40.67	31.99	-8.01	40.00	42.26	21.04	0.39	31.70	100	0	Peak
2	98.87	25.92	-17.58	43.50	38.02	18.56	0.84	31.50	---	---	Peak
3	250.19	37.85	-8.15	46.00	46.59	20.40	1.86	31.00	---	---	Peak
4	350.10	33.20	-12.80	46.00	40.68	21.40	2.22	31.10	---	---	Peak
5	450.01	34.94	-11.06	46.00	36.77	26.70	2.57	31.10	---	---	Peak
6	958.29	32.00	-14.00	46.00	29.46	29.89	3.99	31.34	---	---	Peak
7	1960.00	57.30			83.54	26.07	6.03	58.34	---	---	Peak
8	2984.00	48.29	-25.71	74.00	68.14	28.56	8.91	57.32	---	---	Peak
9	4454.00	49.48	-24.52	74.00	66.52	31.24	10.54	58.82	100	0	Peak
10	6610.00	48.89	-25.11	74.00	57.48	34.07	15.58	58.24	---	---	Peak
11	7040.00	48.55	-25.45	74.00	58.02	34.96	14.36	58.79	---	---	Peak
12	10462.00	49.29	-24.71	74.00	53.46	37.08	14.64	55.89	---	---	Peak
13	12160.00	48.84	-25.16	74.00	50.42	38.53	15.02	55.13	---	---	Peak

Test Mode :	Mode 4	**Temperature :**	24~25°C
Test Engineer :	Clear Peng	**Relative Humidity :**	48~49%
Test Distance :	3m	**Polarization :**	Horizontal
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx		
Remark :	#7 is system simulator signal which can be ignored.		

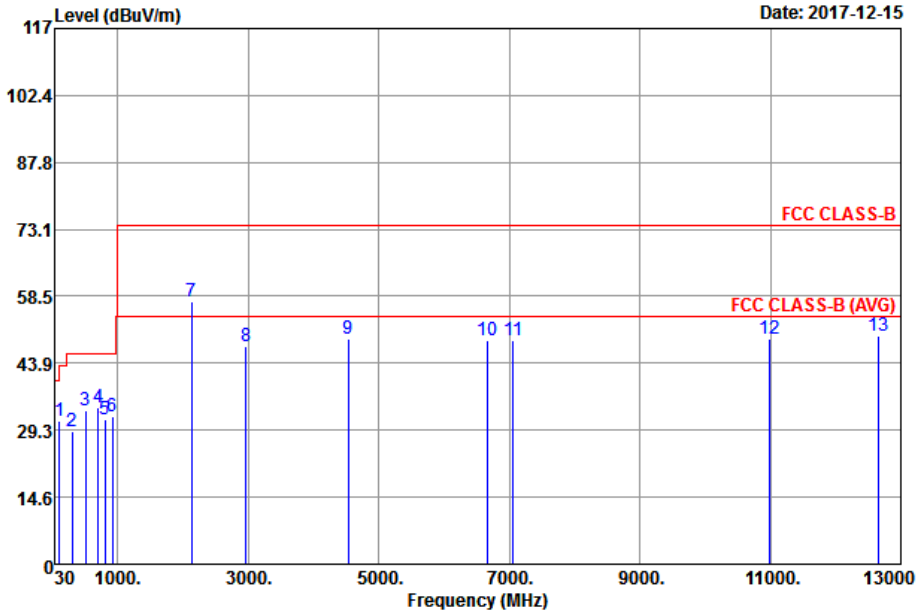


Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT(35407)_6 HORIZONTAL

Mode : Mode 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	99.84	31.86	-11.64	43.50	43.91	18.60	0.85	31.50	---	---	Peak
2	232.73	31.11	-14.89	46.00	40.97	19.43	1.78	31.07	---	---	Peak
3	299.66	33.08	-12.92	46.00	42.54	19.60	2.04	31.10	---	---	Peak
4	450.01	30.72	-15.28	46.00	32.55	26.70	2.57	31.10	---	---	Peak
5	499.48	35.03	-10.97	46.00	38.88	24.54	2.71	31.10	100	0	Peak
6	963.14	32.79	-21.21	54.00	30.13	30.00	4.01	31.35	---	---	Peak
7	2132.00	58.62			79.02	31.47	6.29	58.16	---	---	Peak
8	2968.00	47.84	-26.16	74.00	63.97	32.58	8.62	57.33	---	---	Peak
9	4442.00	49.24	-24.76	74.00	63.77	33.82	10.50	58.85	---	---	Peak
10	6650.00	49.25	-24.75	74.00	56.95	34.96	15.63	58.29	---	---	Peak
11	7014.00	48.46	-25.54	74.00	57.82	34.93	14.56	58.85	---	---	Peak
12	10942.00	49.37	-24.63	74.00	53.33	37.37	14.75	56.08	100	0	Peak
13	12750.00	48.97	-25.03	74.00	52.43	38.65	15.10	57.21	---	---	Peak

Test Mode :	Mode 4	Temperature :	24~25°C
Test Engineer :	Clear Peng	Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle(2.4G) + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx		
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT(35407)_6 VERTICAL

Mode : Mode 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	99.84	31.41	-12.09	43.50	43.46	18.60	0.85	31.50	---	---	Peak
2	299.66	28.99	-17.01	46.00	38.45	19.60	2.04	31.10	---	---	Peak
3	499.48	33.69	-12.31	46.00	37.54	24.54	2.71	31.10	---	---	Peak
4	697.36	34.23	-11.77	46.00	34.49	27.68	3.26	31.20	100	0	Peak
5	800.18	31.59	-14.41	46.00	32.88	26.40	3.61	31.30	---	---	Peak
6	921.43	32.27	-13.73	46.00	30.74	28.96	3.87	31.30	---	---	Peak
7	2128.00	57.30			77.78	31.41	6.29	58.18	---	---	Peak
8	2960.00	47.44	-26.56	74.00	63.64	32.53	8.62	57.35	---	---	Peak
9	4532.00	49.37	-24.63	74.00	63.55	33.89	10.61	58.68	---	---	Peak
10	6668.00	48.96	-25.04	74.00	56.67	34.98	15.63	58.32	---	---	Peak
11	7058.00	48.85	-25.15	74.00	58.24	34.99	14.36	58.74	---	---	Peak
12	10978.00	49.23	-24.77	74.00	53.17	37.39	14.76	56.09	---	---	Peak
13	12652.00	49.92	-24.08	74.00	53.05	38.63	15.09	56.85	100	0	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	Dec. 15, 2017	Jan. 05, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Jan. 05, 2017	Dec. 15, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103892	9kHz~30MHz	Jan. 05, 2017	Dec. 15, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 19, 2017	Dec. 15, 2017	Jul. 18, 2018	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Apr. 20, 2017	Dec. 15, 2017	Apr. 19, 2018	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5GHz	Oct. 19, 2017	Dec. 15, 2017	Oct. 18, 2018	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Apr. 25, 2017	Dec. 15, 2017	Apr. 24, 2018	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jul. 28, 2017	Dec. 15, 2017	Jul. 27, 2018	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 20, 2017	Dec. 15, 2017	Apr. 19, 2018	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 15, 2017	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 15, 2017	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 15, 2017	NCR	Radiation (03CH01-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))	2.6dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8dB

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

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