

**FCC RF Test Report** 

APPLICANT : ZTE CORPORATION

**EQUIPMENT**: LTE/WCDMA/GSM(GPRS)Multi-Mode Digital

**Mobile Phone** 

BRAND NAME : ZTE

MODEL NAME : Z999

FCC ID : SRQ-Z999

STANDARD : FCC 47 CFR Part 2, 27(D)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jun. 01, 2017 and completely tested on Aug. 01, 2017. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-D-2010 and shown 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.

Journes Huang

Approved by: James Huang / Manager



## Sporton International (Kunshan) Inc.

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Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : 1 of 22
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

## **TABLE OF CONTENTS**

RE	VISIO	N HISTORY	3
SU	MMAI	RY OF TEST RESULT	4
		ERAL DESCRIPTION	
1	GEN		
	1.1	Applicant	
	1.2	Manufacturer	
	1.3	Product Feature of Equipment Under Test	
	1.4	Product Specification of Equipment Under Test	
	1.5	Modification of EUT	
	1.6	Maximum Frequency Tolerance, Emission Designator and Conducted power	
	1.7	Testing Site	
	1.8	Applied Standards	7
2	TEST	T CONFIGURATION OF EQUIPMENT UNDER TEST	8
	2.1	Test Mode	
	2.2	Connection Diagram of Test System	
	2.3	Support Unit used in test configuration and system	
	2.4	Measurement Results Explanation Example	
	2.5	Frequency List of Low/Middle/High Channels	10
3	CON	DUCTED TEST ITEMS	11
	3.1	Measuring Instruments	
	3.2	Test Setup	11
	3.3	Test Result of Conducted Test	
	3.4	Conducted Output Power Measurement	
	3.5	Peak-to-Average Ratio	13
	3.6	EIRP Power Density	
	3.7	Occupied Bandwidth	
	3.8	Conducted Band Edge Measurement	
	3.9	Conducted Spurious Emission Measurement	
	3.10	Frequency Stability Measurement	18
4	RAD	IATED TEST ITEMS	19
	4.1	Measuring Instruments	19
	4.2	Test Setup	
	4.3	Test Result of Radiated Test	
	4.4	Radiated Spurious Emission Measurement	20
5	LIST	OF MEASURING EQUIPMENT	21
6	UNC	ERTAINTY OF EVALUATION	22
ΑP	PEND	DIX A. TEST RESULTS OF CONDUCTED TEST	
ΑP	PEND	DIX B. TEST RESULTS OF RADIATED TEST	
ΑP	PEND	DIX C. TEST SETUP PHOTOGRAPHS	

Report No.: FG760101C

Report Version : Rev. 01



**REVISION HISTORY** 

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG760101C	Rev. 01	Initial issue of report	Aug. 21, 2017

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : 3 of 22
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



**SUMMARY OF TEST RESULT** 

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	-	Peak-to-Average Ratio	<13dB	N/A	Reporting only
3.6	§27.50 (a)(3)	EIRP Power Density	EIRP < 250mW/5MHz	PASS	-
3.7	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.8	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.9	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< 70+10log <sub>10</sub> (P[Watts])	PASS	-
3.10	\$2.1055 Frequency Stability 3.10 \$27.54 Temperature & Voltage		Within the band	PASS	-
§2.1053 4.4 §27.53 (a)(4)		Radiated Spurious Emission	< 70+10log <sub>10</sub> (P[Watts])	PASS	Under limit 19.17 dB at 9220.000 MHz

TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : 4 of 22
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



#### **General Description** 1

## 1.1 Applicant

#### **ZTE CORPORATION**

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

### 1.2 Manufacturer

#### **ZTE CORPORATION**

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

## 1.3 Product Feature of Equipment Under Test

Product Feature							
Equipment	LTE/WCDMA/GSM(GPRS)Multi-Mode Digital Mobile Phone						
Brand Name	ZTE						
Model Name	Z999						
FCC ID	SRQ-Z999						
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/LTE/NFC/ WLAN2.4GHz 802.11b/g/n HT20/HT40/ WLAN5GHz 802.11a/n HT20/HT40/ WLAN5GHz 802.11ac VHT20/VHT40/VHT80/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/Bluetooth v4.1 LE						
IMEI Code	Conducted: 865800030007659 Radiation: 865800030006560						
HW Version	Z999HWV1.0						
SW Version	Z999V1.0.0B02						
EUT Stage	Identical Prototype						

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999

Page Number : 5 of 22 Report Issued Date: Aug. 21, 2017

Report No.: FG760101C

: Rev. 01 Report Version

## 1.4 Product Specification of Equipment Under Test

Product Feature						
Tx Frequency	LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz					
Rx Frequency	LTE Band 30 : 2352.5 MHz ~ 2357.5 MHz					
Bandwidth	5MHz / 10MHz					
Maximum Output Power to Antenna	LTE Band 30 : 22.18 dBm					
Antenna Type	LDS Antenna					
Type of Modulation	QPSK / 16QAM					

## 1.5 Modification of EUT

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

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : 6 of 22 Report Issued Date : Aug. 21, 2017

Report No.: FG760101C

Report Version : Rev. 01

## 1.6 Maximum Frequency Tolerance, Emission Designator and Conducted power

L	TE Band 30		QPSK		16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)	
5	2307.5 ~ 2312.5	4M50G7D	-	0.1633	4M49W7D	-	0.1384	
10	2310.0	9M01G7D	0.0010	0.1652	8M95W7D	-	0.1406	

## 1.7 Testing Site

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No is CN5013.

Test Site	Sporton Internationa	Sporton International (Kunshan) Inc.					
	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu						
Test Site Location	Province 215335 China						
rest Site Location	TEL: +86-512-57900158						
	FAX: +86-512-57900958						
Toot Site No	Sporton	Site No.	FCC Test Firm Registration No.				
Test Site No.	TH01-KS	03CH03-KS	630927				

## 1.8 Applied Standards

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

- 47 CFR Part 2, Part 27(D)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

#### Remark:

- All test items were verified and recorded according to the standards and without any deviation during the 1.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

Sporton International (Kunshan) Inc. TEL: +86-512-57900158

FAX: +86-512-57900958 FCC ID: SRQ-Z999

Page Number : 7 of 22 Report Issued Date: Aug. 21, 2017

Report No.: FG760101C

Report Version : Rev. 01



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

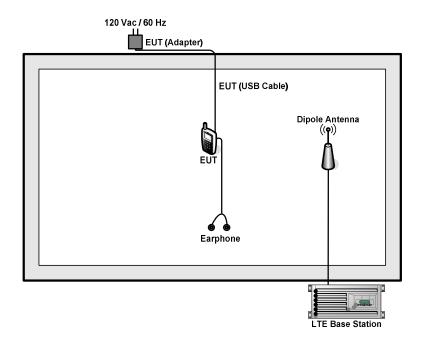
Conducted			В	andwic	ith (MH	z)		Modi	ulation		RB#		Test Channel		
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	Н
Max. Output		-	-	٧		-	-	V	V	٧	٧	٧	٧	٧	٧
Power	30	-	-		V	-	-	V	V	٧	٧	V		٧	
Peak-to-Average Ratio	30	-	-		V	-	-	V	V	٧		٧		٧	
E.I.R.P PSD	30	-	-	V		-	1	V	V	٧			٧	٧	٧
2	00	-	-		V	-	-	V	V	٧				V	
26dB and 99%	30	-	-	٧		-	-	V	V			V	V	٧	V
Bandwidth		-	-	-	٧	-	-	V	V			V		٧	
Conducted	30	-	-	٧		-	-	V	V	٧		٧	V		٧
Band Edge		-	-		٧	-	-	V	V	٧		٧		٧	
Conducted		-	-	٧		-	-	V	v	٧			٧	٧	V
Spurious Emission	30	-	-		V	-	-	V	V	٧				V	
Frequency Stability	30	-	-		V	-	-	V				V		٧	
Radiated		-	-	V		-	-	v		٧				٧	
Spurious	30				.,			.,		.,					
Emission					V			V		V				V	
	1. T	he ma	rk "v "	mean	s that	this co	onfigur	ation is	chosen	for tes	ting				
	2. T	he ma	rk "-" r	neans	that t	his ba	ndwid	th is not	supporte	ed.					
Note	3. T	he dev	ice is	invest	igated	I from	30MH	z to 10	times of	fundar	mental	signal	l for ra	diated	ı
									e/offset a		dulatio	ons in	explor	atory t	test.
	S	ubseq	uently	, only	the wo	orst ca	se em	issions	are repo	rted.					

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : 8 of 22
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	Lenovo	LH102	N/A	Unshielded,1.2m	N/A

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : 9 of 22
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



## 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.5 dB.

Example:

 $Offset(dB) = RF \ cable \ loss(dB).$ 

= 5.5 (dB)

## 2.5 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List										
BW [MHz]	Channel/Frequency(MHz) Lowest Middle Highest									
10	Channel	-	27710	-						
10	Frequency	-	2310	-						
E	Channel	27685	27710	27735						
5	Frequency	2307.5	2310	2312.5						

Sporton International (Kunshan) Inc. TEL: +86-512-57900158

FAX: +86-512-57900958 FCC ID: SRQ-Z999

Page Number : 10 of 22 Report Issued Date: Aug. 21, 2017

Report No.: FG760101C

Report Version : Rev. 01



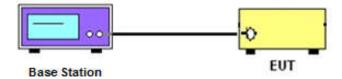
### 3 Conducted Test Items

## 3.1 Measuring Instruments

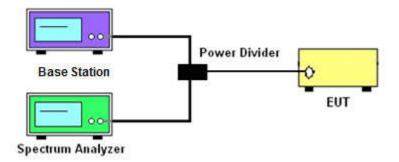
See list of measuring instruments of this test report.

## 3.2 Test Setup

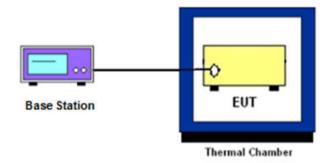
### 3.2.1 Conducted Output Power



# 3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



### 3.2.3 Frequency Stability



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : 11 of 22
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

## 3.4 Conducted Output Power Measurement

#### 3.4.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

#### 3.4.2 Test Procedures

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999

Page Number : 12 of 22 Report Issued Date: Aug. 21, 2017

Report No.: FG760101C

Report Version : Rev. 01

### 3.5 Peak-to-Average Ratio

#### 3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### 3.5.2 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999

: 13 of 22 Page Number Report Issued Date: Aug. 21, 2017

Report No.: FG760101C

Report Version : Rev. 01

## 3.6 EIRP Power Density

#### 3.6.1 Description of EIRP Power Density

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

Report No.: FG760101C

: 14 of 22

: Rev. 01

Report Issued Date: Aug. 21, 2017

Page Number

Report Version

#### 3.6.2 Test Procedures

- 1. Set instrument center frequency to OBW center frequency.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set the RBW to the specified reference bandwidth (often 1 MHz).
- 4. Set VBW ≥ 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep ≥ 2 × span/RBW.
- 7. Sweep time = auto couple.
- 8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- 9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).

### 3.7 Occupied Bandwidth

#### 3.7.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26dB occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal 26 dB.

The 26 dB emission bandwidth(EBW) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

#### 3.7.2 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF powers with full RB sizes were measured.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999

: 15 of 22 Page Number Report Issued Date: Aug. 21, 2017

Report No.: FG760101C

Report Version : Rev. 01

### 3.8 Conducted Band Edge Measurement

#### 3.8.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz:

Report No.: FG760101C

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

#### 3.8.2 Test Procedures

- The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- The band edges of low and high channels were measured with RBW ≥ 1% EBW set in Spectrum Analyzer, while the EUT was transmitting under maximum power.
- 3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Page Number

Report Version

: 16 of 22

: Rev. 01

Report Issued Date: Aug. 21, 2017

- 4. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
  - = P(W) [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB) = -13dBm.

### 3.9 Conducted Spurious Emission Measurement

#### 3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

Report No.: FG760101C

It is measured by means of a calibrated spectrum analyzer and scanned from 30MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.9.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
  - = P(W) [70 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [70 + 10log(P)] (dB)
  - = -40dBm.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : 17 of 22
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

### 3.10 Frequency Stability Measurement

#### 3.10.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

Report No.: FG760101C

#### 3.10.2 Test Procedures for Temperature Variation

- The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### 3.10.3 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999

: 18 of 22 Page Number Report Issued Date: Aug. 21, 2017

Report Version : Rev. 01



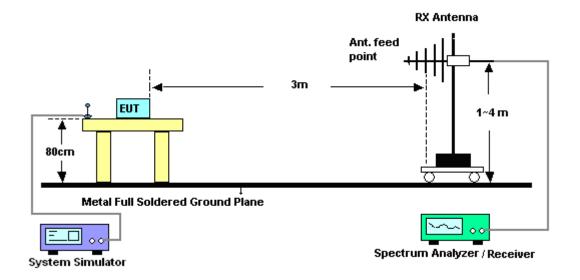
## 4 Radiated Test Items

### 4.1 Measuring Instruments

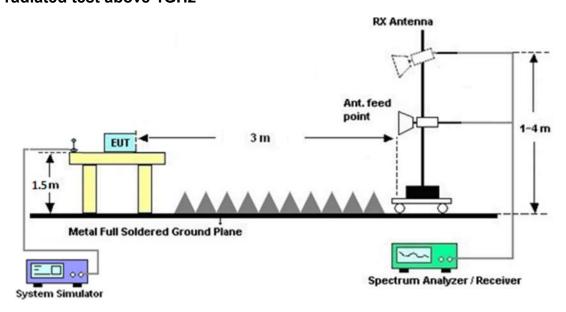
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



#### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

Sporton International (Kunshan) Inc. TEL: +86-512-57900158

FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : 19 of 22
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

### 4.4 Radiated Spurious Emission Measurement

#### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-D-2010.

Report No.: FG760101C

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

#### 4.4.2 Test Procedures

- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- A horn antenna was substituted in place of the EUT and was driven by a signal generator. 6.
- Tune the output power of signal generator to the same emission level with EUT maximum spurious 7. emission.
- Taking the record of output power at antenna port. 8.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
  - = P(W) [70 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [70 + 10log(P)] (dB)
  - = -40dBm.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain

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: 20 of 22 Page Number Report Issued Date: Aug. 21, 2017

Report Version : Rev. 01



## **List of Measuring Equipment**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 09, 2016	Jul. 17, 2017	Aug. 08, 2017	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 13, 2016	Jul. 17, 2017	Oct. 12, 2017	Conducted (TH01-KS)
Radio communication	Anritsu	MT8820C	6201300652	2G/3G/LTE Band	Aug. 08, 2016	Jul. 17, 2017	Aug. 07, 2017	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2017	Aug. 01, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 22, 2017	Aug. 01, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Aug. 01, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz ~40GHz	Oct. 19, 2016	Aug. 01, 2017	Oct. 18, 2017	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz ~1000MHz / 32 dB	Apr. 18, 2017	Aug. 01, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Aug. 01, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 01, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 01, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 01, 2017	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999

Page Number : 21 of 22 Report Issued Date: Aug. 21, 2017 : Rev. 01

Report No.: FG760101C

Report Version



## FCC RF Test Report

#### **Uncertainty of Evaluation** 6

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

Measuring Uncertainty for a Level of	2.8dB
Confidence of 95% (U = 2Uc(y))	2.0UB

#### <u>Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	3,3dB
Confidence of 95% (U = 2Uc(y))	3.3UB

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999

: 22 of 22 Page Number Report Issued Date: Aug. 21, 2017 Report Version

Report No.: FG760101C

: Rev. 01



## **Appendix A. Test Results of Conducted Test**

## Conducted Output Power(Average power)

		Lī	ΓE Band 3	30 Maximum Average	e Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		22.03	22.13	22.11
5	1	12		22.04	22.01	22.01
5	1	24		22.03	22.05	22.06
5	12	0	QPSK	20.99	21.14	21.14
5	12	7		21.05	21.06	21.04
5	12	13		20.96	21.08	21.08
5	25	0		21.08	21.04	21.00
5	1	0		21.32	21.38	21.41
5	1	12		21.37	21.31	21.34
5	1	24		21.24	21.31	21.27
5	12	0	16-QAM	20.08	20.16	20.18
5	12	7		20.08	20.08	20.09
5	12	13		19.98	20.10	20.10
5	25	0		20.08	20.07	20.07
10	1	0			22.18	
10	1	25			21.99	
10	1	49			22.01	
10	25	0	QPSK		21.19	
10	25	12			21.09	
10	25	25			21.14	
10	50	0			21.06	
10	1	0		-	21.48	-
10	1	25			21.32	
10	1	49			21.31	
10	25	0	16-QAM		20.17	
10	25	12			20.10	
10	25	25			20.16	
10	50	0			20.08	

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : A1 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



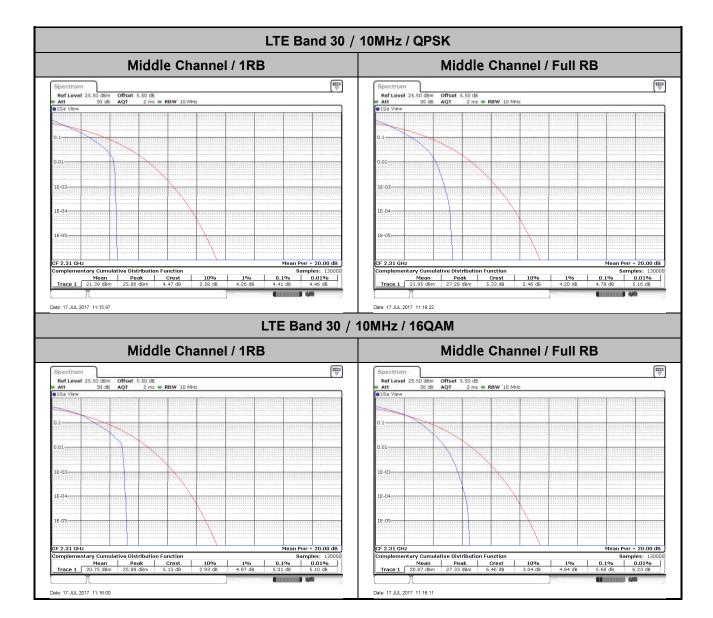
Peak-to-Average Ratio

Mode		LTE Band 30 / 10MHz								
Mod.	QP	SK	160	Limit: 13dB						
RB Size	1RB	Full RB	1RB	Full RB	Result					
Lowest CH	-	-	-	-						
Middle CH	4.41	4.78	5.01	5.68	PASS					
Highest CH	-	-	-	-						

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : A2 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01





TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : A3 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

## **EIRP Power Density**

Mode		LTE Band 30 : Conducted Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH					24.28	23.47							
Middle CH					24.19	23.60	24.14	23.62					
Highest CH					24.25	23.60							

Mode		LTE Band 30 : EIRP Power Density (dBm/5MHz)										
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					23.28	22.47						
Middle CH					23.19	22.60	23.14	22.62				
Highest CH					23.25	22.60						
Antenna Gain				•		-1 (	dBi					
Limit		250mW / 5MHz = 24dBm / 5MHz										
Result						Pa	ss					

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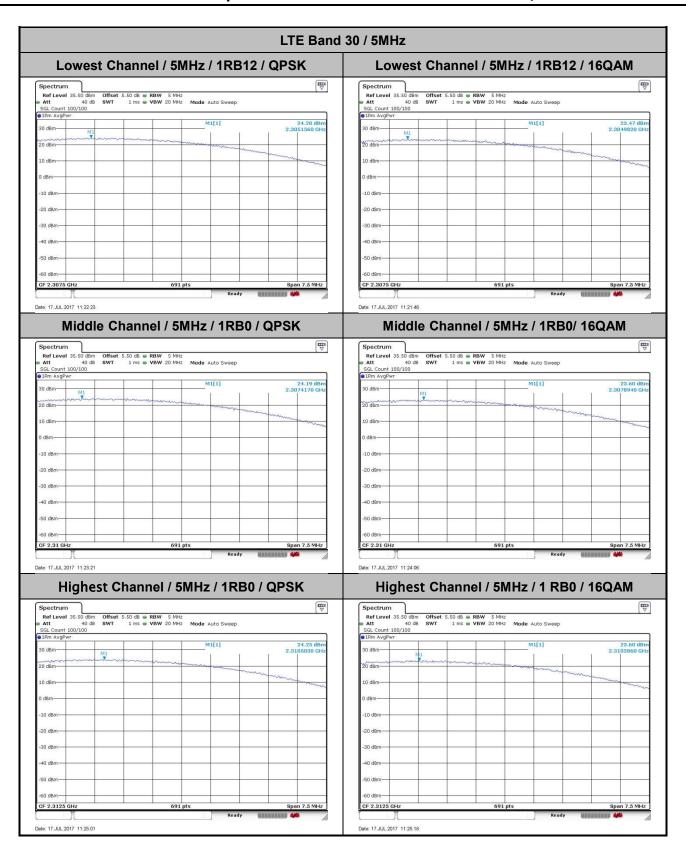
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Page Number : A4 of A19 Report Issued Date: Aug. 21, 2017 Report Version

Report No.: FG760101C

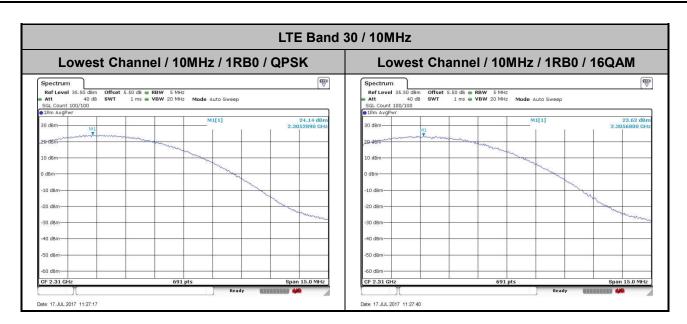
: Rev. 01

#### FCC RF Test Report



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : A5 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

## FCC RF Test Report



TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : A6 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



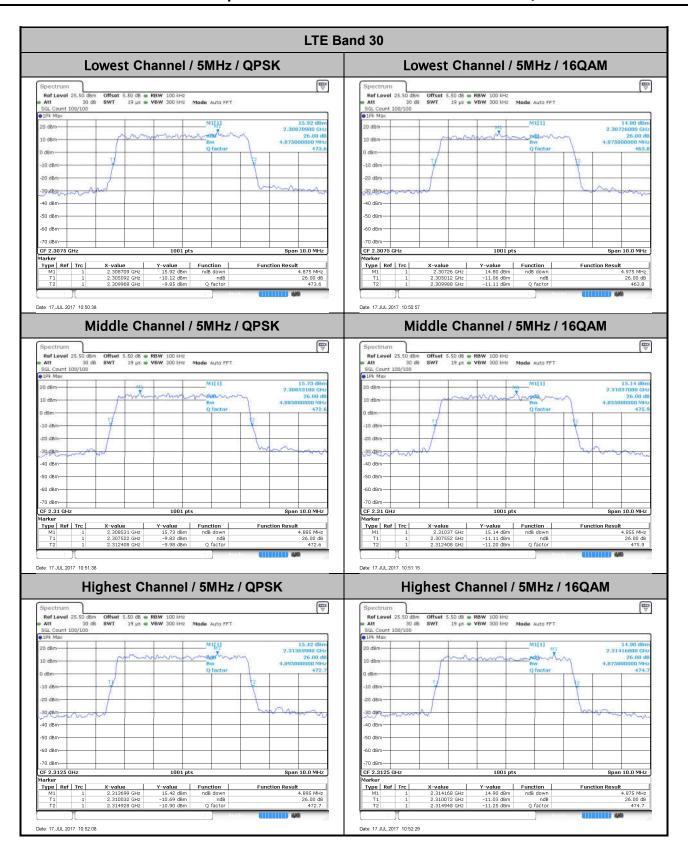
## 26dB Bandwidth

Mode		LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH	-	-	-	-	4.875	4.975	-	-	-	-	-	-	
Middle CH	-	-	-	-	4.885	4.855	9.99	9.73	-	-	-	-	
Highest CH	-	-	-	-	4.895	4.875	-	-	-	-	-	-	

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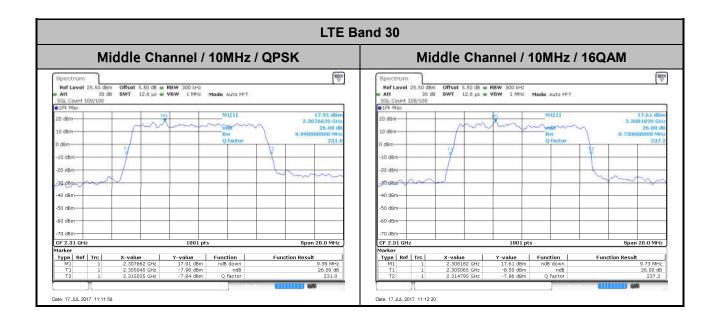
TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : A7 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

#### FCC RF Test Report



Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : A8 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : A9 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



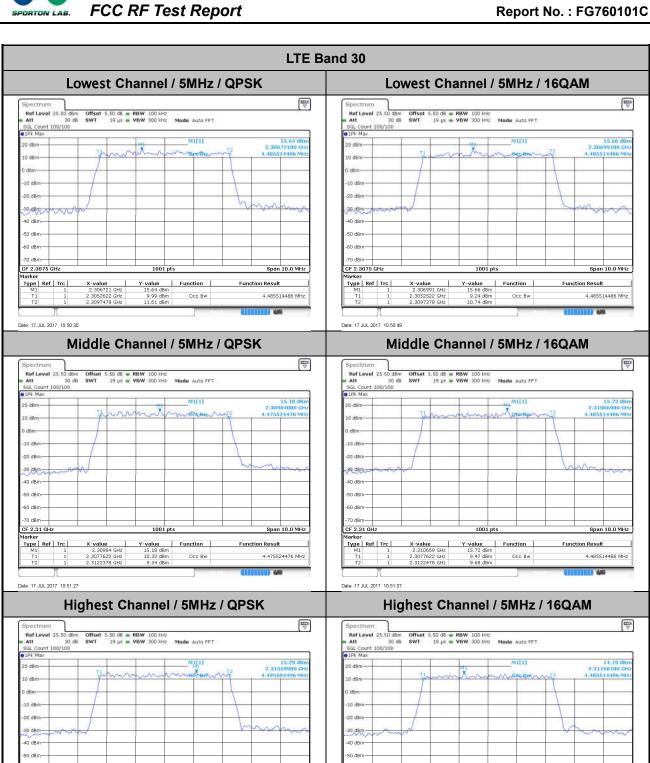
**Occupied Bandwidth** 

Mode		LTE Band 30 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH	-	-	-	-	4.49	4.49	-	-	-	-	-	-	
Middle CH	-	-	-	-	4.48	4.49	9.01	8.95	-	-	-	-	
Highest CH	_	-	-	-	4.5	4.49	-	-	-	_	-	-	

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999

Page Number : A10 of A19 Report Issued Date: Aug. 21, 2017 : Rev. 01 Report Version



Span 10.0 MHz

4.495504496 MHz

Function Result

CF 2.3125 GHz

Type | Ref | Trc |

Date: 17.JUL.2017 10:52:18

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 X-value
 Y-value
 Function

 2.313599 GHz
 15.29 dBm

 2.3102522 GHz
 10.97 dBm
 Occ Bw

 2.3147478 GHz
 11.56 dBm

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Type | Ref | Trc |

Date: 17.JUL.2017 10:52:00

Page Number : A11 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

Span 10.0 MHz

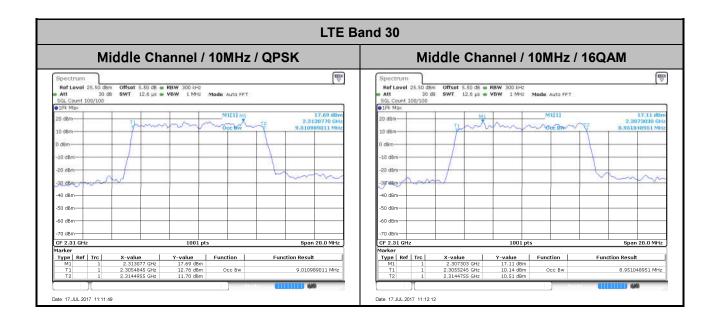
4.485514486 MHz

Function Result

1001 pts

 X-value
 Y-value
 Function

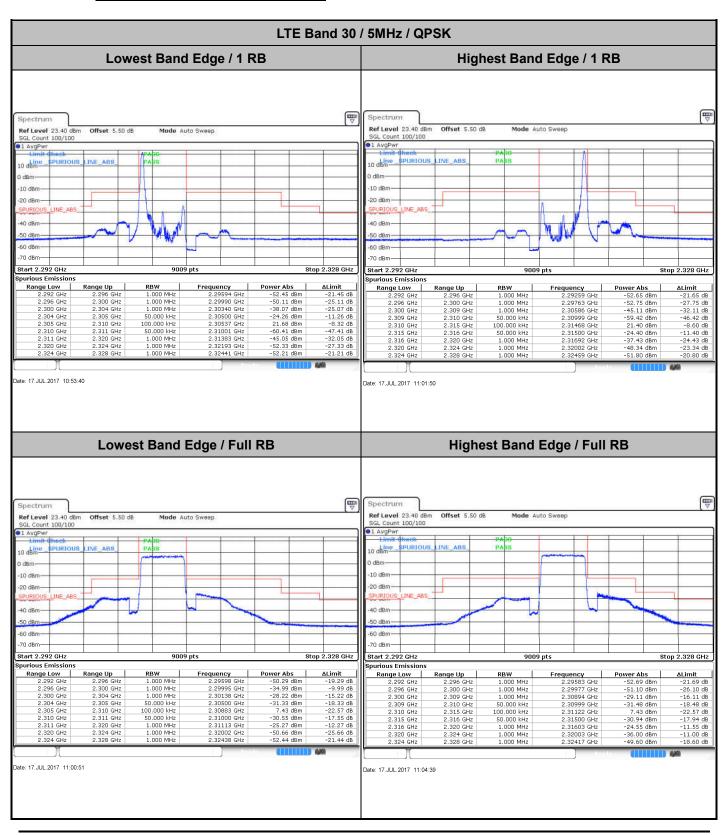
 2.311681 GHz
 14.19 dBm



TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : A12 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

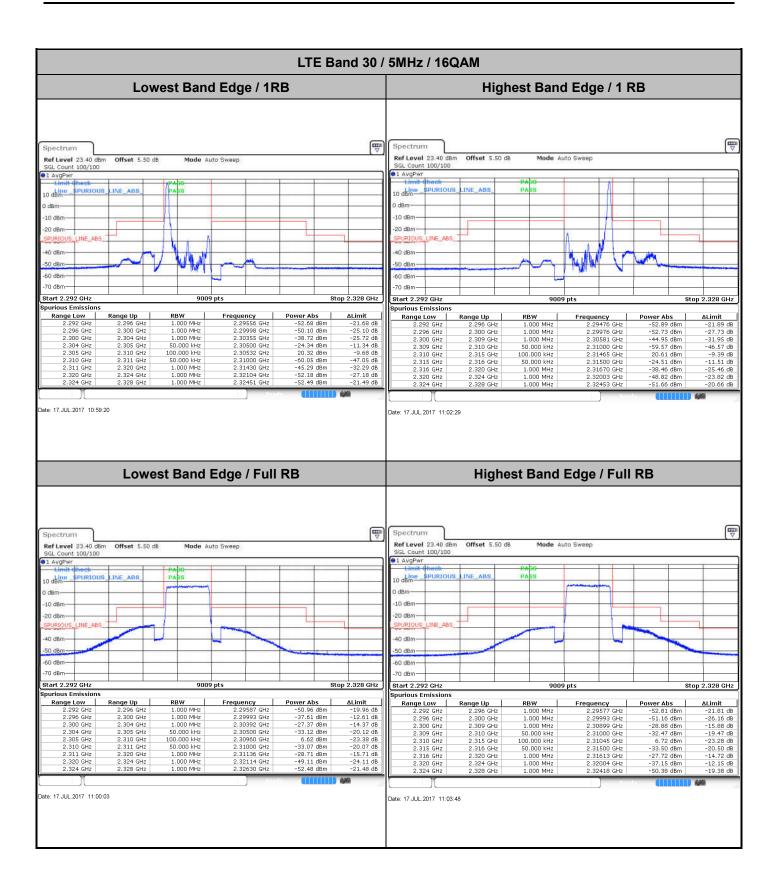


## **Conducted Band Edge**



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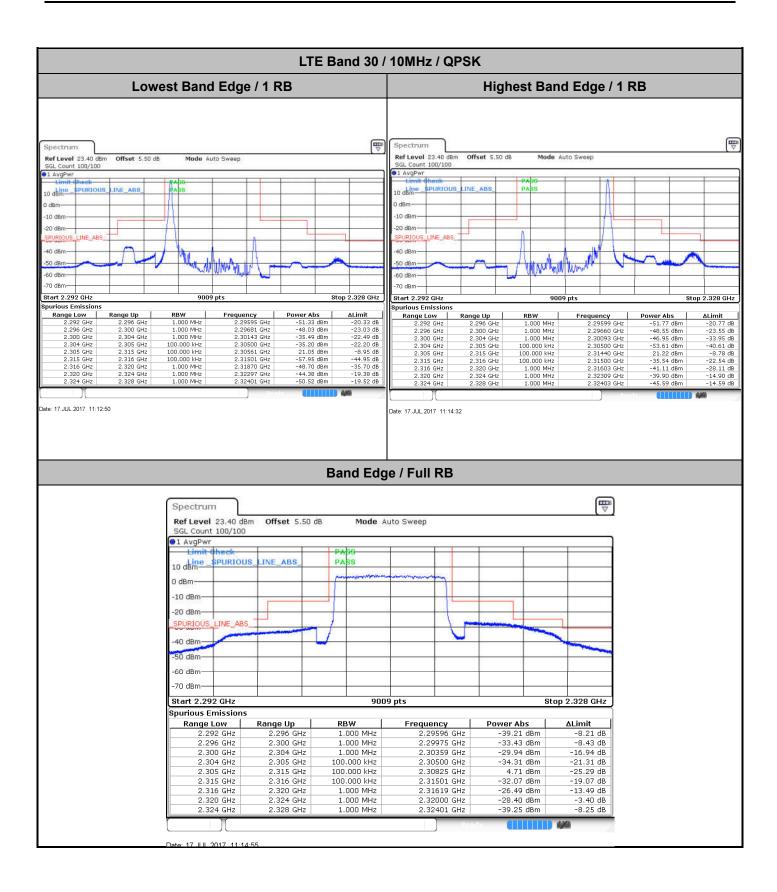
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Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : A14 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01





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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999

: A15 of A19 Page Number Report Issued Date : Aug. 21, 2017

Report No.: FG760101C

Report Version : Rev. 01

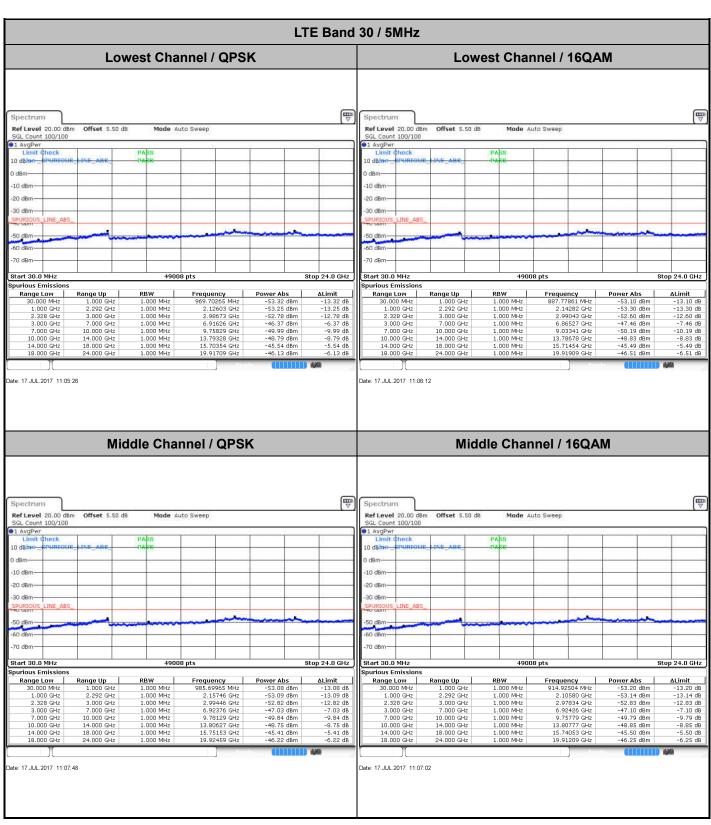
LTE Band 30 / 10MHz / 16QAM Lowest Band Edge / 1 RB Highest Band Edge / 1 RB 7 Spectrum Ref Level 23.40 dBm SGL Count 100/100 Ref Level 23.40 dBm Offset 5.50 dB Mode Auto Sweep LO deme o deme dBm -10 dBn -10 dBm 20 dBm -20 dBm-40 dBm 40 dBm -60 dBm 9009 pts Stop 2.328 GHz Start 2.292 GHz Stop 2.328 GHz Start 2.292 GHz Purious Emissio Range Low 2.292 GHz 2.296 GHz 2.300 GHz 2.305 GHz 2.305 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz rious Emissions ırious Emissions Power Abs
-51.63 dBm
-48.02 dBm
-36.25 dBm
-34.04 dBm
20.56 dBm
-56.77 dBm
-49.34 dBm
-46.35 dBm
-50.72 dBm Range Up Frequency 2 29597 GHz 2.29568 GHz 2.29568 GHz 2.29692 GHz 2.30090 GHz 2.30499 GHz 2.31443 GHz 2.31509 GHz 2.31509 GHz 2.32317 GHz 2.32401 GHz Power Abs
-52.41 dBm
-49.10 dBm
-47.85 dBm
-53.86 dBm
19.86 dBm
-34.45 dBm
-41.16 dBm
-40.02 dBm
-46.62 dBm Range Up 2.296 GHz 2.300 GHz 2.304 GHz 2.305 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz 2.328 GHz 1.000 MHz 1.000 MHz 1.000 MHz 100.000 kHz 100.000 kHz 100.000 kHz -20.63 dB -23.02 dB -23.25 dB -21.04 dB -9.44 dB -43.77 dB -36.34 dB -21.35 dB -19.72 dB 2.29597 GHz 2.29679 GHz 2.30141 GHz 2.30499 GHz 2.30558 GHz 2.31504 GHz 2.31852 GHz 2.32309 GHz ate: 17.JUL.2017 11:13:12 Date: 17.JUL.2017 11:13:38 Band Edge / Full RB Spectrum Ref Level 23.40 d8m Offset 5.50 dB Mode Auto Sweep SGL Count 100/100 1 AvgPwr PURIOUS INE\_ABS PA 10 dBm 0 dBm -10 dBm -20 dBm-INE\_ABS -60 dBm -70 dBm-Start 2.292 GH 9009 pts Stop 2.328 GHz Spurious Emissions RBW Power Abs ∆Limit Range Low Range Up Frequency -40.99 dBm -33.64 dBm 292 GHz 296 GHz 1.000 MHz 29587 GHz -9.99 dB 2.29997 GHz 2.296 GHz 2.300 GHz 1.000 MHz -8.64 dB 2.300 GHz 2.304 GHz 2.304 GHz 1.000 MHz 2.30393 GHz -29.97 dBm -16.97 dB 2.305 GHz -35.35 dBm -22.35 dB 100.000 kHz 2.30499 GHz 2.305 GHz 2.315 GHz 100.000 kHz 2.31153 GHz 4.09 dBm -25.91 dB 2.315 GHz 2.316 GHz 100.000 kHz 2.31502 GHz -33.52 dBm -20.52 dB 2.316 GHz 2.320 GHz 2.320 GHz 2.324 GHz 1.000 MHz 2.31611 GHz -27.56 dBm -14.56 dB 1.000 MHz -30.09 dBm -5.09 dB 2.32019 GHz

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : A16 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



## **Conducted Spurious Emission**



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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : A17 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01

LTE Band 30 / 5MHz **Highest Channel / QPSK Highest Channel / 16QAM ₩** Spectrum Spectrum Ref Level 20,00 dBm SGL Count 100/100 Ref Level 20,00 dBm SGL Count 100/100 Offset 5.50 dB Mode Auto Sweep Offset 5.50 dB Mode Auto Sweep 1 AvgPw 1 AvgPw 10 dBim 10 dBm dBm 20 dBm--20 dBm 30 dBm 30 dBm-49008 pt Start 30.0 MHz Start 30.0 MHz urinus Emission urinus Emissin Power Abs
-53.14 dBm
-53.30 dBm
-52.90 dBm
-46.33 dBm
-49.93 dBm
-48.72 dBm
-45.41 dBm
-46.05 dBm Power Abs
-53.26 dBm
-53.24 dBm
-52.77 dBm
-46.86 dBm
-49.85 dBm
-48.75 dBm
-45.57 dBm
-46.41 dBm 905.22989 MHz 2.08772 GHz 2.97061 GHz 6.93126 GHz 9.78429 GHz 13.80277 GHz 15.75153 GHz 19.91009 GHz 1.000 MHz 877.59870 MHz 2.15961 GHz 2.99244 GHz 6.93126 GHz 9.76329 GHz 13.76378 GHz 15.74953 GHz 19.91309 GHz Range Low Range Low Range Up Range Up RBW 1.000 MHz 30.000 MHz 1.000 GHz 2.328 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz ite: 17.JUL.2017 11:08:37 Date: 17.JUL.2017 11:09:27 LTE Band 30 / 10MHz Middle Channel / QPSK Middle Channel / 16QAM **₩ ₩** Spectrum Spectrum Ref Level 20.00 dBm Offset 5.50 dB Mode Auto Sweep Ref Level 20.00 dBm Offset 5.50 dB Mode Auto Sweep SGL Count 100/100 SGL Count 100/100 1 AvgPw 1 AvgPw dBm 10 dBm 10 dBm 20 dBm 20 dBm 30 dBm 30 dBm-70 dBm 70 dBm Stop 24.0 GHz Start 30.0 MH: Stop 24.0 GHz Start 30.0 MHz 49008 pts rious Emissia rious Emissic Frequency 912.98601 MHz 2.16177 GHz 2.98976 GHz 6.91726 GHz 9.79878 GHz 13.79628 GHz 15.74203 GHz 19.91759 GHz Range Low Range Up Range Up ALimit
-13.15 dB
-12.90 dB
-12.42 dB
-7.11 dB
-10.00 dB
-8.85 dB
-5.51 dB
-6.47 dB -53.30 dBm -53.36 dBm -52.48 dBm -46.94 dBm -50.10 dBm -48.80 dBm -45.57 dBm -46.29 dBm 1.000 GHz 2.292 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 24.000 GHz 1.000 GHz 2.292 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 24.000 GHz 30.000 MHz 1.000 GHz 2.328 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz Date: 17.JUL.2017 11:11:32

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z999 Page Number : A18 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



## Frequency Stability

Test 0	Conditions	LTE Band 30 (QPSK) / Middle Channel	Limit
_		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0006	
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0005	PASS
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0009	

#### Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.4 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : A19 of A19
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01



## **Appendix B. Test Results of Radiated Test**

## Radiated Spurious Emission

	LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0													
Channel	Frequency (MHz)	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)					
	4615	-64.95	-40	-24.95	-57.72	-71.48	2.07	8.60	Н					
	6925	-62.78	-40	-22.78	-58.14	-70.85	2.60	10.67	Н					
Middle	9230	-60.10	-40	-20.10	-65.52	-69.06	3.27	12.23	Н					
Middle	4615	-65.03	-40	-25.03	-57.97	-71.56	2.07	8.60	V					
	6925	-62.28	-40	-22.28	-58.98	-70.35	2.60	10.67	V					
	9230	-62.00	-40	-22.00	-66.12	-70.96	3.27	12.23	V					

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0												
Channel	Frequency (MHz)	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)				
	4612	-65.24	-40	-25.24	-58.01	-71.77	2.07	8.60	Н				
	6916	-63.77	-40	-23.77	-59.13	-71.84	2.60	10.67	Н				
Middle	9220	-59.17	-40	-19.17	-64.59	-68.13	3.27	12.23	Н				
Middle	4612	-64.79	-40	-24.79	-57.73	-71.32	2.07	8.60	V				
	6916	-62.53	-40	-22.53	-59.23	-70.60	2.60	10.67	V				
	9220	-61.54	-40	-21.54	-65.66	-70.50	3.27	12.23	V				

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCCID: SRQ-Z999 Page Number : B1 of B1
Report Issued Date : Aug. 21, 2017
Report Version : Rev. 01