FCC RF Test Report

APPLICANT : ZTE CORPORATION

EQUIPMENT: Wireless Access Terminal

BRAND NAME : ZTE

MODEL NAME : WF723CA FCC ID : SRQ-Z723EL

STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Dec. 14, 2017 and completely tested on Dec. 22, 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/TIA-603-E and the testing has shown the tested sample to be 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.



Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China

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Report No.: FG710507-04

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG710507-04	Rev. 01	Initial issue of report	Feb. 09, 2018

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.4	§22.913(a)(2)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a)	Conducted Band Edge Measurement (Band 5)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a)	Conducted Spurious Emission (Band 5)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
4.4	§2.1053 §22.917(a)	Radiated Spurious Emission (Band 5)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 39.08 dB at 2504.000 MHz

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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	Wireless Access Terminal							
Brand Name	ZTE							
Model Name	WF723CA							
FCC ID	SRQ-Z723EL							
EUT supports Radios application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/LTE							
IMEI Code	Conducted/ Radiation: 866625030001595							
HW Version	Z723ELHWV1.0							
SW Version	WF723CAV1.0.0B02							
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.
- 2. The report is in accordance with C2PC rule and the product equality declaration as Appendix D. Based on the similarity between current and previous project, software open WCDMA Band 2/4/5 and LTE band 2/4/5/12/13, LTE Band 5 was to full test, WCDMA Band 2/4/5 were performed on original report which can be referred to Sporton Report Number FG710507-01(date of grant: 2017/9/21), and other test cases were performed on original report which can be referred to Sporton Report Number FG710507B.

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1.4 Product Specification of Equipment Under Test

Standards-related Product Specification									
Tx Frequency	LTE Band 5: 824.7 MHz ~ 848.3 MHz								
Rx Frequency	LTE Band 5: 869.7 MHz ~ 893.3 MHz								
Bandwidth	LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz								
Maximum Output Power to Antenna	LTE Band 5: 22.07 dBm								
Antenna Gain	LTE Band 5: -1.30 dBi								
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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1.6 Maximum ERP Power, Frequency Tolerance, and Emission Designator

L	TE Band 5		QPSK		16QAM				
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)		
1.4	824.7 ~ 848.3	1M10G7D	-	0.0714	1M09W7D	-	0.0603		
3	825.5 ~ 847.5	2M72G7D	-	0.0721	2M72W7D	-	0.0625		
5	826.5 ~ 846.5	4M51G7D	-	0.0713	4M51W7D	-	0.0637		
10	829.0 ~ 844.0	9M07G7D	0.0039	0.0728	9M07W7D	-	0.0604		

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1.7 Testing Location

Sporton International (Kunshan) Inc. 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 International (F	Sporton International (Kunshan) Inc.									
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jian Province 215335 China TEL: +86-512-57900158 FAX: +86-512-57900958										
Test Site No.	Sportor	n Site No.	FCC Test Firm Registration No.								
	TH01-KS	630927									

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

1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H)
- ANSI/TIA-603-E
- FCC KDB 971168 D01 Power Meas License Digital Systems v03
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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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 v03 with maximum output power.

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

Took Home	Donal		Bandwidth (MHz)				Modulation		RB#		Test Channel				
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
Max. Output	5	v	v	v	v	_	_	v	v	v	v	v	v	v	v
Power	•	,	v	,	,			*	,	*	٧	٧	•	*	
Peak-to-Average	5				v			v		v		v	v	v	v
Ratio	,				,	-	•	v	V	٧		,	•	,	
26dB and 99%	5														
Bandwidth	ว	V	V	٧	٧	-	•	V	V			V	٧	V	V
Conducted	5	.,	**	v	,,			,,	.,	.,		v	**		
Band Edge	3	V	V	٧	٧	•	•	V	V	٧		v	٧		V

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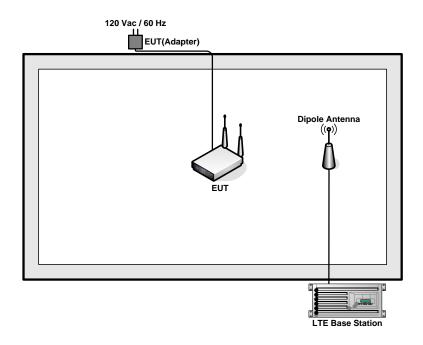


Took Home	Donal	Bandwidth (MHz)				Modu	ulation		RB#		Test Channel				
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
Conducted															
Spurious	5	v	v	v	v	-	-	v	v	v			v	v	v
Emission															
Frequency	5														
Stability	ຈ				V	-	•	V				٧		V	
E.R.P.	5	V	v	y	V	-	•	v	v	V			v	V	v
Radiated															
Spurious	5	v	v	v	v	-	-	v		v			v	V	v
Emission															
	1. The	e mark	ς " _γ " n	neans	that th	nis cor	nfigura	tion is c	hosen fo	r testi	ng				
	2. The	e mark	κ "-" m	eans t	hat th	is ban	dwidth	is not s	supported	d.					
Note	3. The device is investigated from 30MHz to 10 times of fundamental							nental	signa	l for r	adiate	d			
	spurious emission test under different RB size/offset and modulations in exp								explo	ratory	test.				
	Sul	osequ	ently,	only th	ne wor	st cas	e emis	ssions a	re report	ed.					

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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.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m		

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 3.8 dB.

Example:

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

= 3.80 (dB)

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2.5 Frequency List of Low/Middle/High Channels

	LTE Band 5 Channel and Frequency List										
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest							
10	Channel	20450	20525	20600							
10	Frequency	829	836.5	844							
5	Channel	20425	20525	20625							
5	Frequency	826.5	836.5	846.5							
2	Channel	20415	20525	20635							
3	Frequency	825.5	836.5	847.5							
4.4	Channel	20407	20525	20643							
1.4	Frequency	824.7	836.5	848.3							

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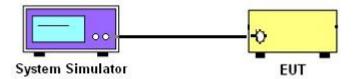
3 Conducted Test Items

3.1 Measuring Instruments

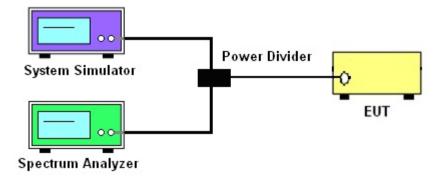
See list of measuring instruments of this test report.

3.2 Test Setup

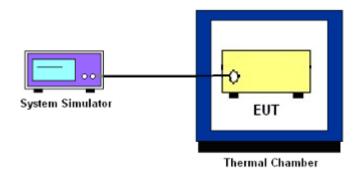
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted 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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3.4 Conducted Output Power and ERP

3.4.1 Description of the Conducted Output Power Measurement and ERP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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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 v03 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.

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3.6 Occupied Bandwidth

3.6.1 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 26 dB emission bandwidth 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.

3.6.2 Test Procedures

- 1. The testing follows FCC KDB 971168 v03 Section 4.1 and 4.2.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
 The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 5. Set the detection mode to peak, and the trace mode to max hold.
- 6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 7. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 - 849 MHz band, the FCC limit is $43 + 10log_{10}(P[Watts])$ dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.7.2 Test Procedures

- 1. The testing follows FCC KDB 971168 v03 Section 6.0.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The band edges of low and high channels for the highest RF powers were measured.
- 4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- 6. Set spectrum analyzer with RMS detector.
- 7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 8. Checked that all the results comply with the emission limit line.

Example:

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.

3.8 Conducted Spurious Emission

3.8.1 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 43 + 10 log (P) dB.

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

3.8.2 Test Procedures

- 1. The testing follows FCC KDB 971168 v03 Section 6.0.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 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.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 7. Set spectrum analyzer with RMS detector.
- 8. Taking the record of maximum spurious emission.
- 9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 10. 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 Frequency Stability

3.9.1 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.

3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows FCC KDB 971168 v03 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 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.
- 4. 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.

3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows FCC KDB 971168 v03 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
- The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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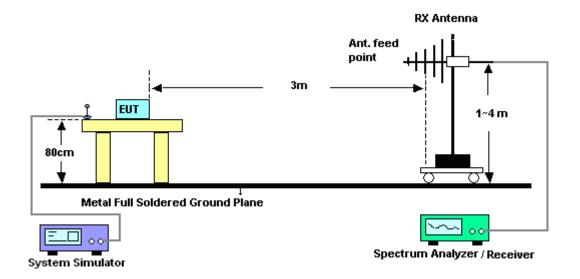
4 Radiated Test Items

4.1 Measuring Instruments

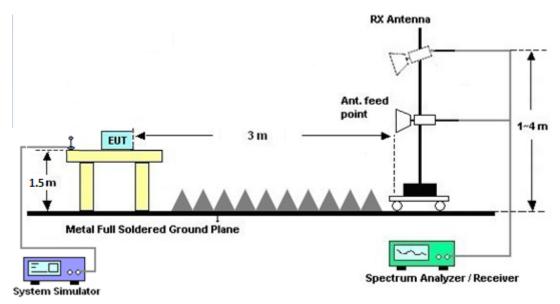
See list of measuring instruments of this test report.

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.

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4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. 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 43 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

- 1. The testing follows FCC KDB 971168 v03 Section 5.8 and ANSI/TIA-603-E Section 2.2.12.
- 2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
- = -13dBm.

5 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. 08, 2017	Dec. 15, 2017	Aug. 07, 2018	Conducted (TH01-KS)
Radio communication analyzer	Anritsu	MT8820C	6201300652	2G/3G/LTE_ full band	Aug. 08, 2017	Dec. 15, 2017	Aug. 07, 2018	Conducted (TH01-KS)
Thermal Chamber	Hongzhan	LP-150U	HZ014011440	-40~+150°C 20%~95%RH	Apr. 18, 2017	Dec. 15, 2017	Apr. 17, 2018	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz, MAX 30dB	Apr. 18, 2017	Dec. 22, 2017	Apr. 17, 2018	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz~2GHz	Jan. 22, 2017	Dec. 22, 2017	Jan. 21, 2018	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 21, 2017	Dec. 22, 2017	Oct. 20, 2018	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9kHz~1GHz	Aug. 07, 2017	Dec. 22, 2017	Aug. 06, 2018	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 12, 2017	Dec. 22, 2017	Oct. 11, 2018	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Dec. 22, 2017	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Dec. 22, 2017	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Dec. 22, 2017	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	5.2dB
Confidence of 95% (U = 2Uc(y))	3.2UB

<u>Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)</u>

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

Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of	5.3dB
Confidence of 95% (U = 2Uc(y))	J.3ub

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

		L	TE Band	5 Maximum Average	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0		21.91	21.96	21.81
10	1	25		22.07	21.94	21.99
10	1	49		21.66	21.57	21.71
10	25	0	QPSK	20.89	20.95	20.95
10	25	12		21.03	20.80	20.95
10	25	25		20.90	20.70	20.91
10	50	0		21.00	20.93	21.03
10	1	0		21.14	21.26	20.97
10	1	25		21.17	21.07	21.13
10	1	49		20.65	20.90	20.89
10	25	0	16-QAM	20.17	20.03	19.86
10	25	12		20.30	19.88	19.93
10	25	25		20.07	19.79	20.18
10	50	0		19.91	19.85	20.04
5	1	0		21.87	21.91	21.82
5	1	12		21.76	21.76	21.98
5	1	24		21.85	21.81	21.71
5	12	0	QPSK	20.90	20.89	21.00
5	12	7		20.90	20.78	20.94
5	12	13		20.91	20.81	20.84
5	25	0		20.97	20.95	20.97
5	1	0		21.33	21.39	21.49
5	1	12		21.02	21.09	21.14
5	1	24		20.83	20.92	21.05
5	12	0	16-QAM	19.94	19.92	20.02
5	12	7		19.91	19.88	19.92
5	12	13		19.92	19.83	19.95
5	25	0		20.08	20.13	19.95

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		L	TE Band	5 Maximum Average	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0		22.03	21.81	21.92
3	1	8		21.94	21.78	21.98
3	1	14		21.96	21.72	21.87
3	8	0	QPSK	20.98	20.96	21.08
3	8	4		20.94	20.88	20.96
3	8	7		20.95	20.84	20.85
3	15	0		20.91	20.91	20.97
3	1	0		21.41	21.11	20.95
3	1	8		20.81	21.14	21.01
3	1	14		21.07	21.04	20.89
3	8	0	16-QAM	20.21	20.10	20.24
3	8	4		20.11	20.03	20.11
3	8	7		20.09	19.90	20.17
3	15	0		19.94	19.94	20.09
1.4	1	0		21.98	21.86	21.82
1.4	1	3		21.96	21.98	21.86
1.4	1	5		21.91	21.83	21.71
1.4	3	0	QPSK	21.97	21.89	21.85
1.4	3	1		21.99	21.91	21.85
1.4	3	3		21.97	21.88	21.81
1.4	6	0		20.97	20.88	20.88
1.4	1	0		20.98	20.67	21.13
1.4	1	3		21.21	21.19	21.25
1.4	1	5		21.16	21.01	21.12
1.4	3	0	16-QAM	20.93	21.00	21.00
1.4	3	1		21.10	21.00	21.06
1.4	3	3		20.78	20.91	21.10
1.4	6	0		19.88	19.68	19.89

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	LTE Band 5 (G_T - L_C = -1.30 dB) QPSK											
Bandwidth		1.4M			3M			5M				
Channal	20407	20525	20643	20415	20525 20635		20425	20525	20625			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency	004.7	020 5	040.2	005.5	02C F	047.5	99C F	020 5	040 5			
(MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5			
Conducted Power (dBm)	21.99	21.91	21.85	22.03	21.81	21.92	21.76	21.76	21.98			
Conducted Power (Watts)	0.1581	0.1552	0.1531	0.1596	0.1517	0.1556	0.1500	0.1500	0.1578			
ERP(dBm)	18.54	18.46	18.40	18.58	18.36	18.47	18.31	18.31	18.53			
ERP(Watts)	0.0714	0.0701	0.0692	0.0721	0.0685	0.0703	0.0678	0.0678	0.0713			

	LTE Band 5 (G_T - L_C = -1.30 dB) QPSK										
Bandwidth		10M									
Channel	20450	20525	20600								
Channel	(Low)	(Mid)	(High)								
Frequency	829	836.5	844								
(MHz)	029	630.5	044								
Conducted Power (dBm)	22.07	21.94	21.99								
Conducted Power (Watts)	0.1611	0.1563	0.1581								
ERP(dBm)	18.62	18.49	18.54								
ERP(Watts)	0.0728	0.0706	0.0714								

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	LTE Band 5 (G _T - L _C = -1.30 dB) 16QAM										
Bandwidth		1.4M			3M		5M				
Channel	20407	20525	20643	20415	20415 20525 20635			20525	20625		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)		
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5		
(MHz)	024.7	030.3	040.3	625.5	636.5	047.5	020.5	636.5	040.5		
Conducted Power (dBm)	21.21	21.19	21.25	21.41	21.11	20.95	21.33	21.39	21.49		
Conducted Power (Watts)	0.1321	0.1315	0.1334	0.1384	0.1291	0.1245	0.1358	0.1377	0.1409		
ERP(dBm)	17.76	17.74	17.80	17.96	17.66	17.50	17.88	17.94	18.04		
ERP(Watts)	0.0597	0.0594	0.0603	0.0625	0.0583	0.0562	0.0614	0.0622	0.0637		

	LTE Band 5	(G _T - L _C = -1.30 dB) 16QAM									
Bandwidth		10M									
Channel	20450	20525	20600								
Channel	(Low)	(Mid)	(High)								
Frequency	829	836.5	844								
(MHz)	029	630.3	044								
Conducted Power (dBm)	21.14	21.26	20.97								
Conducted Power (Watts)	0.1300	0.1337	0.1250								
ERP(dBm)	17.69	17.81	17.52								
ERP(Watts)	0.0587	0.0604	0.0565								

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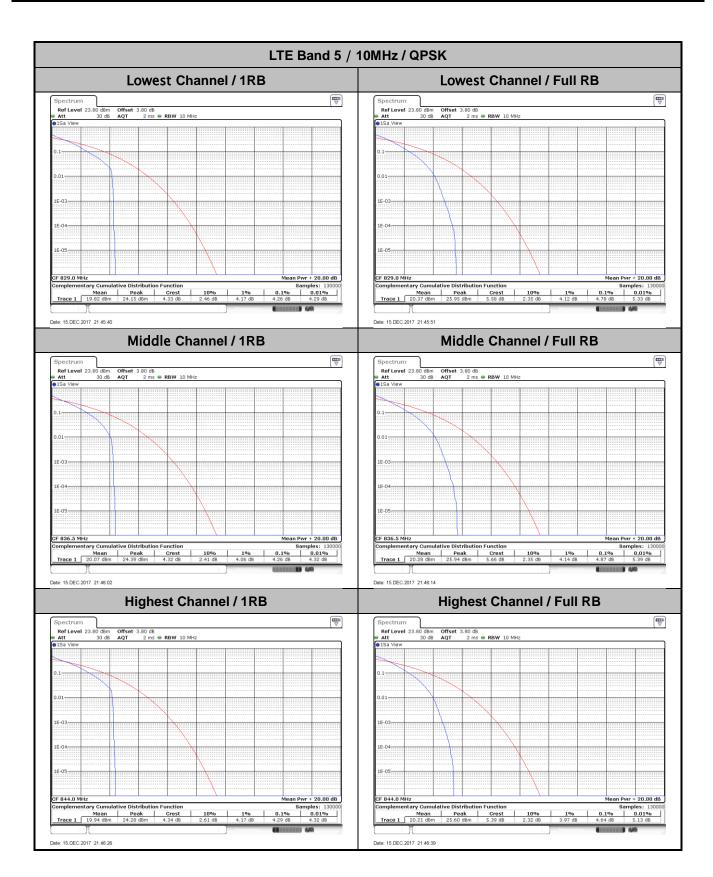
Peak-to-Average Ratio

Mode					
Mod.	QP	SK	16C	Limit: 13dB	
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.26	4.78	4.84	5.62	
Middle CH	4.26	4.87	5.25	5.80	PASS
Highest CH	4.29	4.64	4.93	5.48	

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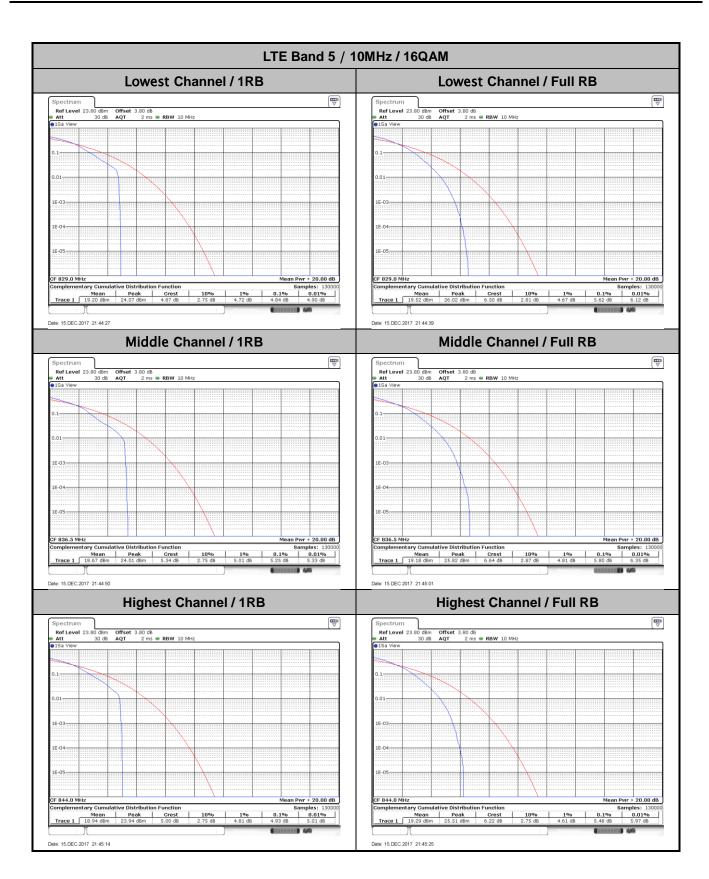
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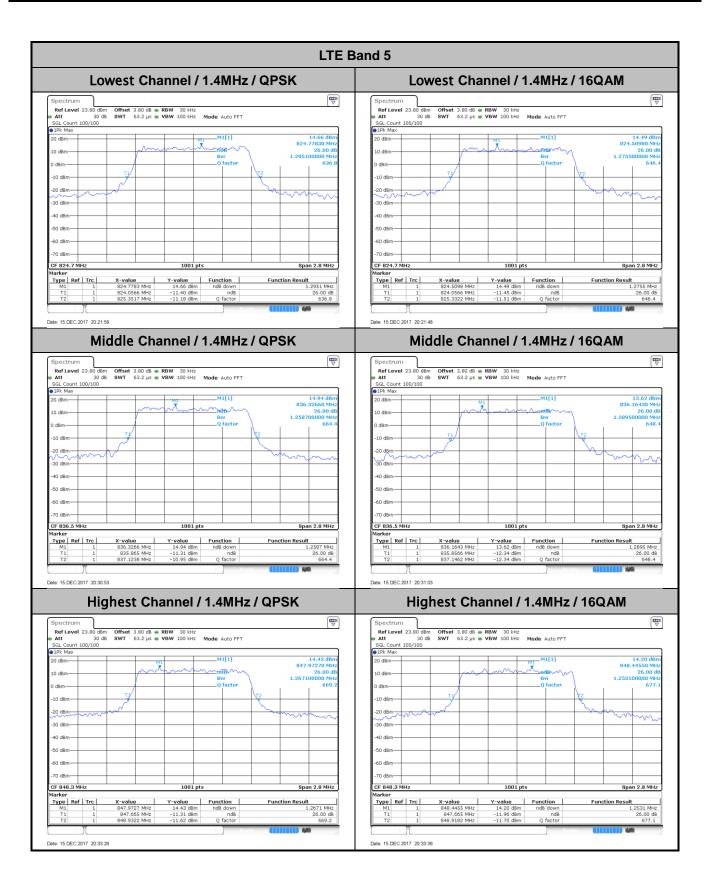
26dB Bandwidth

Mode		LTE Band 5 : 26dB BW(MHz)										
BW	1.41	ИНz	31/	lHz	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.295	1.276	3.009	2.967	4.905	4.985	9.77	9.97	-	-	-	-
Middle CH	1.259	1.290	2.991	3.045	4.785	4.935	9.71	9.83	-	-	-	-
Highest CH	1.267	1.253	3.015	3.027	4.985	4.985	9.75	9.75	-	-	-	-

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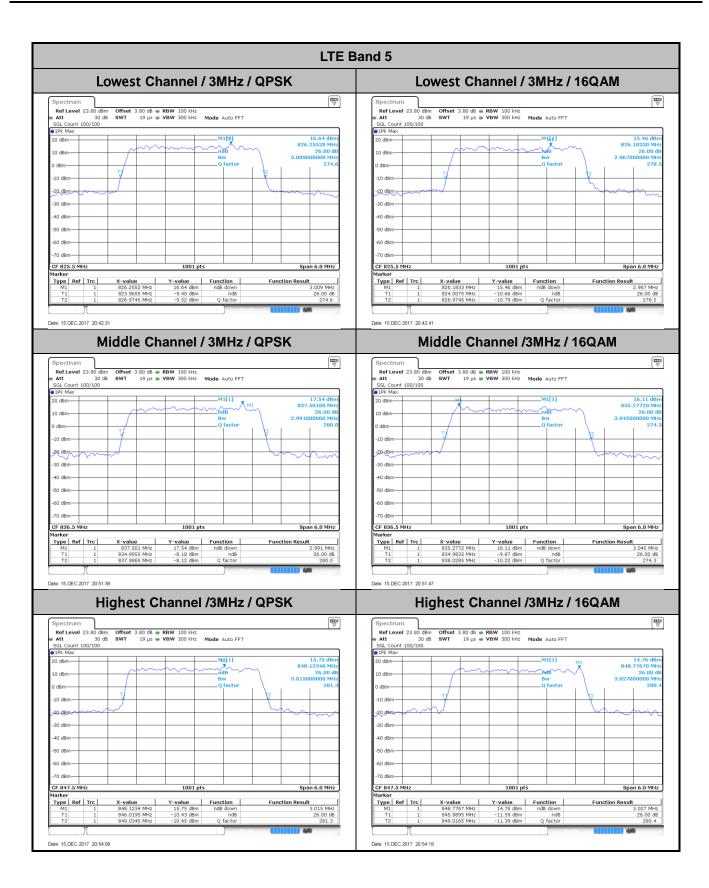
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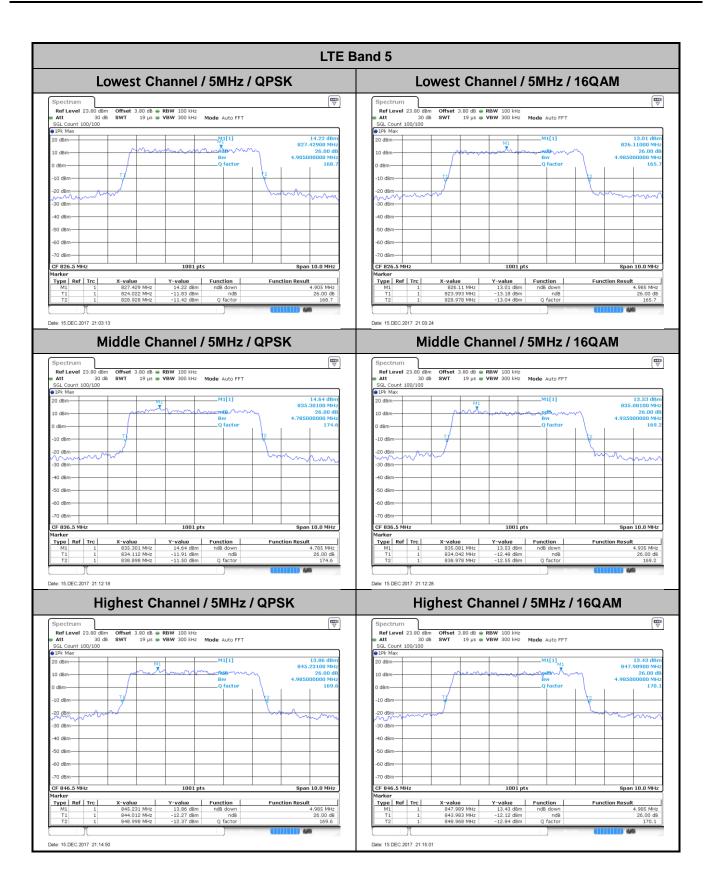
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LTE Band 5 Lowest Channel / 10MHz / QPSK Lowest Channel / 10MHz / 16QAM Ref Level 23.80 dBm

Att 30 dB

SGL Count 100/100

1Pk Max 15.98 dB 82. -60 dBm-Type Ref Trc
 X-value
 Y-value
 Function

 825.444 MHz
 15.55 dBm
 ndB down
 Date: 15.DEC:2017 21:23:55 Date: 15.DEC:2017 21:24:06 Middle Channel / 10MHz / QPSK Middle Channel / 10MHz / 16QAM Ref Level 23.80 dB

Att 30

SGL Count 100/100

1Pk Max Offset 3.80 dB ● RBW 300 kHz SWT 12.6 µs ● VBW 1 MHz Mode Auto FFT -20 dBn -20 dBm -70 dBm 1001 pts Span 20.0 MHz Span 20.0 MHz CF 836.5 MH: CF 836.5 MHz X-value 834.742 MHz 831.585 MHz 841.415 MHz Type | Ref | Trc | Function n ndB down Type Ref Trc Date: 15.DEC:2017 21:33:00 Date: 15.DEC:2017 21:33:11 Highest Channel / 10MHz / QPSK Highest Channel / 10MHz / 16QAM 3.80 dB **e RBW** 300 kHz 12.6 μs **e VBW** 1 MHz **Mode** Auto FFT 14.82 dBn 842.4020 *** 16.45 dBr 843.1810 MH -10 dBm -30 dBm Span 20.0 MHz CF 844.0 MHz Span 20.0 MHz Y-value Function z 16.45 dBm ndB down Type Ref Trc Type | Ref | Trc | Function Result X-value 842.402 MHz 839.185 MHz 848.935 MHz Y-value Function
2 14.82 dBm ndB down **Function Result**

Date: 15.DEC:2017 21:35:43

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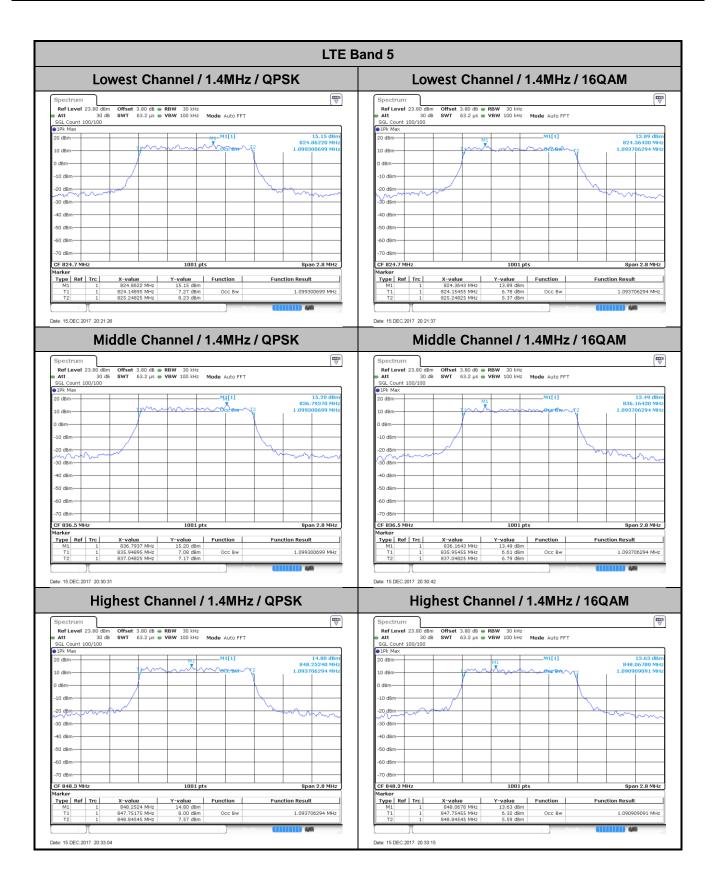
Occupied Bandwidth

Mode		LTE Band 5 : 99%OBW(MHz)										
BW	1.4	ИНz	3N	lHz	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.09	2.71	2.72	4.48	4.51	9.01	8.99	-	-	-	-
Middle CH	1.10	1.09	2.72	2.72	4.51	4.48	9.07	9.07	-	-	-	-
Highest CH	1.09	1.09	2.71	2.72	4.50	4.50	8.93	8.99	-	-	-	-

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LTE Band 5 Lowest Channel / 3MHz / QPSK Lowest Channel / 3MHz / 16QAM Ref Level 23.80 dBm Offset 3.80 dB • RBW 100 kHz
• Att 30 d8 SWT 19 µs • VBW 300 kHz Mode Auto FFT
SGL Count 100/100
• TPk Max
 Ref Level
 23.80 dBm
 Offset
 3.80 dB
 ● RBW
 100 kHz

 Att
 30 dB
 SWT
 19 μs
 ● VBW
 300 kHz
 Mode
 Auto FFT

 SGL Count
 100/100
 100/100
 No.00
 No.00</ 16.27 dBi 826.50700 MF 709290709 MF -20 dBm -40 dBm 40 dBm -60 dBm -60 dBm-
 X-value
 Y-value
 Function

 824.3911 MHz
 16.13 dBm
 824.3953 MHz

 924.14535 MHz
 9.04 dBm
 Occ Bw

 826.86064 MHz
 9.28 dBm
 Type Ref Trc Type Ref Trc
 X-value
 Y-value
 Function

 826.507 MHz
 16.27 dBm
 Date: 15.DEC:2017 20:42:09 Date: 15.DEC:2017 20:42:20 Middle Channel / 3MHz / QPSK Middle Channel / 3MHz / 16QAM Ref Level 23.80 dBm

Att 30 dB

SGL Count 100/100

1Pk Max Offset 3.80 dB ● RBW 100 kHz SWT 19 µs ● VBW 300 kHz Mode Auto FFT dBm--20 dBm -20 dBm--50 dBm--70 dBm 1001 pts Span 6.0 MHz CF 836.5 MHz 1001 pts Span 6.0 MHz CF 836.5 MHz
 X-value
 Y-value
 Function

 836.9975 MHz
 15.66 dBm

 835.13936 MHz
 9.34 dBm
 Occ Bw

 837.85465 MHz
 9.79 dBm
 Type Ref Trc Type | Ref | Trc | Function Result Function **Function Result** 2.715284715 MHz 2.715284715 MHz Date: 15.DEC.2017 20:51:15 Date: 15.DEC:2017 20:51:25 Highest Channel / 3MHz / QPSK Highest Channel / 3MHz / 16QAM 3.80 dB • RBW 100 kHz 19 µs • VBW 300 kHz Mode Auto FFT 3.80 dB • RBW 100 kHz 19 µs • VBW 300 kHz Mode Auto FFT SGL Count 100/100 1Pk Max 16.02 dBn 846.69080 MH 2.709290709 MH 15.91 dBn 846.39110 MHz 2.715284715 MHz -10 dBm 28 dBm -30 dBm--50 dBm -50 dBm CF 847.5 MHz Span 6.0 MHz CF 847.5 MHz 1001 pts | National Control | Span | Sp
 X-value
 Y-value
 Function

 846.3911 MHz
 15.91 dBm
 945.13936 MHz

 846.3936 MHz
 9.30 dBm
 Occ Bw
 Type | Ref | Trc | Type | Ref | Trc | Function Result

2.709290709 MHz

Date: 15.DEC:2017 20:53:58

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2.715284715 MHz

LTE Band 5 Lowest Channel / 5MHz / QPSK Lowest Channel / 5MHz / 16QAM Ref Level 23.80 dBm Offset 3.80 dB • RBW 100 kHz

• Att 30 dB SWT 19 µs • VBW 300 kHz Mode Auto FFT

SGL Count 100/100

• 1Pk Max
 Ref Level
 23.80 dBm
 Offset
 3.80 dB
 ● RBW
 100 kHz

 Att
 30 dB
 SWT
 19 μs
 ● VBW
 300 kHz
 Mode
 Auto FFT

 SGL Count
 100/100
 100/100
 No.00
 No.00</ 14.01 dB 14.17 dBn 825.98100 MH -40 dBm 40 dBm -60 dBm-
 X-value
 Y-value
 Function

 825.981 MHz
 14.17 dBm
 824.2525 MHz
 7.16 dBm
 Occ Bw

 828.75774 MHz
 9.06 dBm
 Occ Bw
 9.06 dBm
 Occ Bw
 Type Ref Trc
 X-value
 Y-value
 Function

 826.0 MHz
 14.01 dBm
 Date: 15.DEC:2017 21:02:52 Date: 15.DEC:2017 21:03:02 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM Ref Level 23.80 dBm

Att 30 dB

SGL Count 100/100

1Pk Max Offset 3.80 dB ● RBW 100 kHz SWT 19 µs ● VBW 300 kHz Mode Auto FFT dBm--20 dBm -50 dBm--70 dBm 1001 pts 1001 pts Span 10.0 MHz CF 836.5 MHz Span 10.0 MHz CF 836.5 MHz
 X-value
 Y-value
 Function

 834.602 MHz
 14.98 d8m

 834.25225 MHz
 9.05 d8m
 Occ Bw

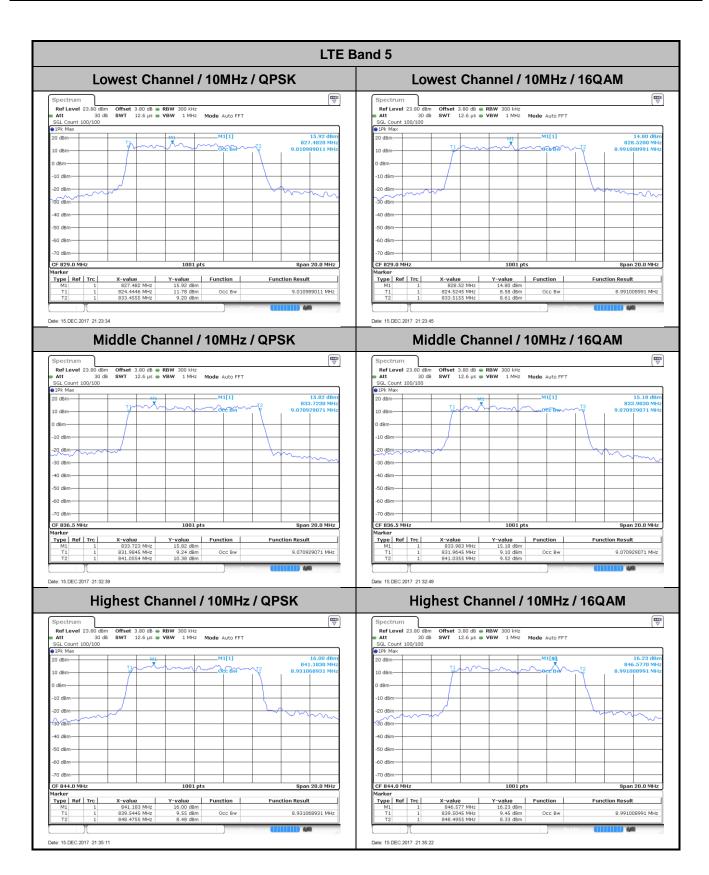
 839.75774 MHz
 7.07 d8m
 Type Ref Trc Type | Ref | Trc | Function Result Function 4.505494505 MHz 4.475524476 MHz Date: 15.DEC:2017 21:11:56 Date: 15.DEC:2017 21:12:07 Highest Channel / 5MHz / QPSK Highest Channel / 5MHz / 16QAM 3.80 dB • RBW 100 kHz 19 µs • VBW 300 kHz Mode Auto FFT .80 dB • RBW 100 kHz 19 µs • VBW 300 kHz Mode Auto FFT SGL Count 100/100 1Pk Max 14.52 dBn 847.75900 MH 4.495504496 MH -10 dBm -20 dBm--50 dBm -50 dBm-CF 846.5 MHz Span 10.0 MHz CF 846.5 MHz 1001 pts Span 10.0 MHz | Market | Trc | X-value | Y-value | Function | M1 | 1 | 845.311.MHz | 13.74.d8m | Tr1 | 1 | 844.5225.MHz | 8.55.d8m | Occ.8w | Tr2 | 1 | 848.74775.MHz | 8.13.d8m | Section | Market | Function Result 4.495504496 MHz 4.495504496 MHz

Date: 15.DEC.2017 21:14:40

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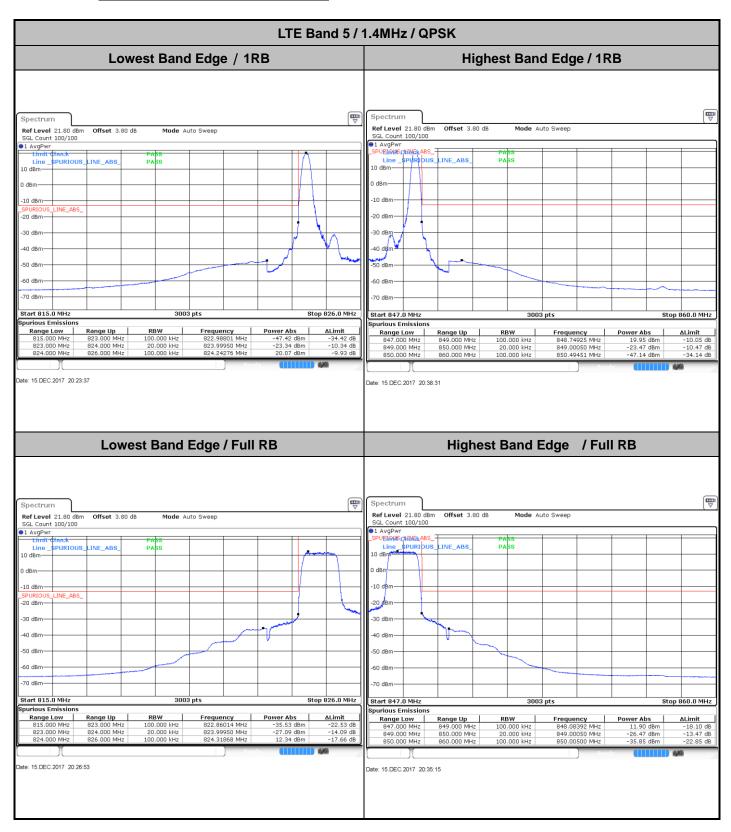
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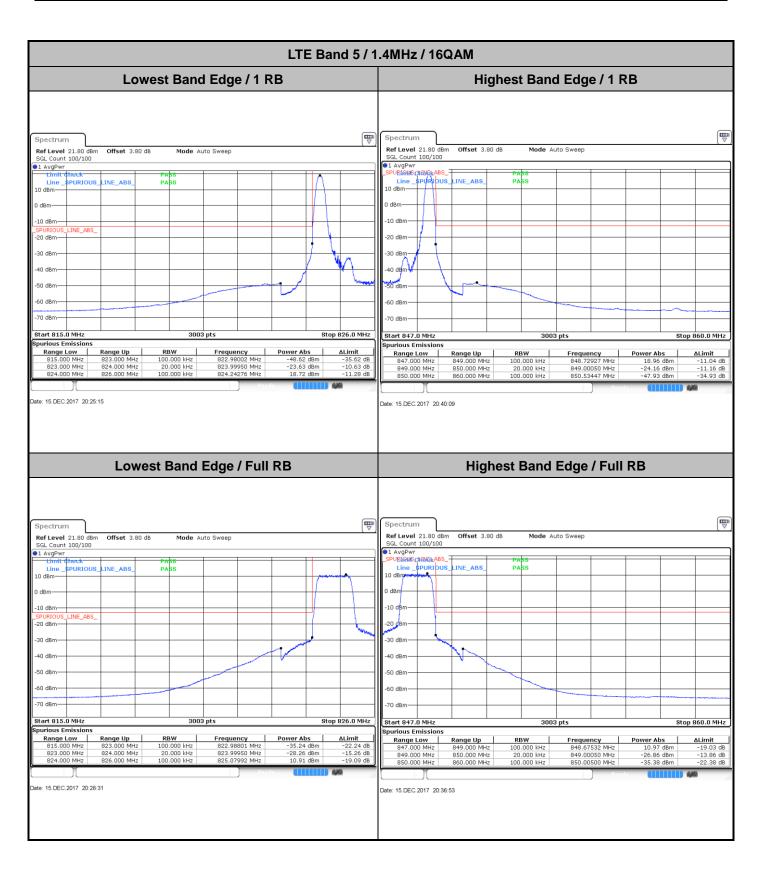
Conducted Band Edge



Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: SRQ-Z723EL Page Number : A18 of A32
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