## **FCC RF Test Report**

APPLICANT : MeiG Smart Technology Co., Ltd

EQUIPMENT : module

BRAND NAME : MEIGLink

MODEL NAME : SLM750

FCC ID : 2APJ4-SLM750

STANDARD : FCC 47 CFR Part 2, and 90(S)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Mar. 29, 2018 and completely tested on Apr. 18, 2018. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 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 (Shenzhen) Inc., the test report shall not be reproduced except in full.



Approved by: Eric Shih / Manager

## Sporton International (Shenzhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China

Sporton International (Shenzhen) Inc.

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Report Version : Rev. 01

Report No.: FW832906

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW832906	Rev. 01	Initial issue of report	May 03, 2018

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## **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting only	PASS	-
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Reporting only	PASS	-
3.3	§2.1051 Emission masks – §90.691 In-band emissions		< 50+10log <sub>10</sub> (P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious  Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 43.36 dB at 2455.11 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

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## 1 General Description

## 1.1 Applicant

#### MeiG Smart Technology Co., Ltd

Floor 9, building 1, Digital China Xi'an Science Park, no. 20, Zhangbasi Road, Gaoxin District, xi 'an

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#### 1.2 Manufacturer

#### MeiG Smart Technology Co., Ltd

Floor 9, building 1, Digital China Xi'an Science Park, no. 20, Zhangbasi Road, Gaoxin District, xi 'an

## 1.3 Feature of Equipment Under Test

Product Feature						
Equipment	module					
Brand Name	MEIGLink					
Model Name	SLM750					
FCC ID	2APJ4-SLM750					
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/DC-HSDPA/LTE					
HW Version	SLM750-T_MB_V1.02					
SW Version	SLM750-TA_EQ102_00B.B8E980.B8A1B0_171218_202_C00 _V02.B					
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

Product Specification subjective to this standard							
Tx Frequency	814.7 ~ 823.3 MHz						
Rx Frequency	859.7 ~ 868.3 MHz						
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz						
Maximum Output Power to Antenna	22.34 dBm						
Antenna Type	Dipole Antenna						
Antenna Gain	3.0 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 Conducted Power, Frequency Tolerance and Emission Designator

FCC Rule	System	Type of Modulation	BW	Frequency Tolerance (ppm)	Emission Designator	Maximum Conducted power(W)
Part 90S	LTE Band 26	QPSK	1.4 MHz	-	1M09G7D	0.1629
Part 90S	LTE Band 26	16QAM	1.4 MHz	-	1M10W7D	0.1225
Part 90S	LTE Band 26	QPSK	3 MHz	-	2M72G7D	0.1603
Part 90S	LTE Band 26	16QAM	3 MHz	-	2M75W7D	0.1164
Part 90S	LTE Band 26	QPSK	5 MHz	-	4M49G7D	0.1667
Part 90S	LTE Band 26	16QAM	5 MHz	-	4M50W7D	0.1291
Part 90S	LTE Band 26	QPSK	10 MHz	0.0022	9M01G7D	0.1629
Part 90S	LTE Band 26	16QAM	10 MHz	-	8M95W7D	0.1216
Part 90S	LTE Band 26	QPSK	15 MHz	-	13M3G7D	0.1714
Part 90S	LTE Band 26	16QAM	15 MHz	-	13M3W7D	0.1233

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### 1.7 Testing Site

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.						
	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan						
Total Oital acation	Shenzhen City Guangdong Province 518055 China						
Test Site Location	TEL: +86-755-8637-9589						
	FAX: +86-755-8637-9595						
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.					
Test Site NO.	TH01-SZ	251365					

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

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

## 1.8 Applied Standards

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

- FCC 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

#### Remark:

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

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## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 10th harmonic.

		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 Power	26	v	v	v	v	v	-	v	v	v	٧	v	v	v	٧
26dB and 99% Bandwidth	26	v	v	v	v	v	-	v	v			v	v	v	v
Emission masks In-band emissions	26	v	v	v	v	v	-	v	v	v		v	v		v
Emission masks – Out of band emissions	26	v	v	v	v	v	-	v	v	v			v	v	v
Frequency Stability	26				v		-	v				v		v	
Radiated Spurious Emission	26	v	v	v	v	-	-	v		v				v	
Note	The mark "v" means that this configuration is chosen for testing     The mark "-" means that this bandwidth is not supported.     LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz.     ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies.														

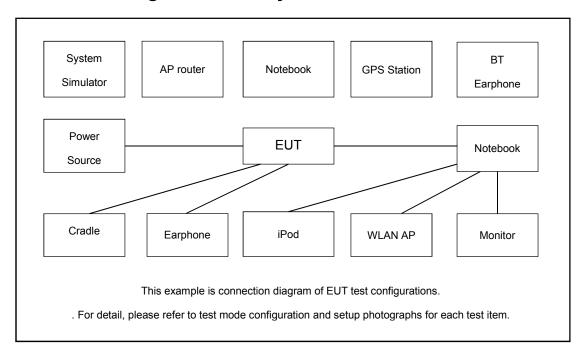
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### 2.2 Connection Diagram of Test System



### 2.3 Support Unit used in test configuration and system

Item	Equipment Trade Name Model No.		FCC ID Data Cable		Power Cord	
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	WWAN Antenna	VLG Wireless	N/A	N/A	N/A	N/A

## 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 and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0 dB and a 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ 

= 4.0 + 10 = 14.0 (dB)

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

LTE Band 26 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
15	Channel	26765	-	-					
15	Frequency	821.5	-	-					
40	Channel	-	26740	-					
10	Frequency	-	819	-					
-	Channel	26715	26740	26765					
5	Frequency	816.5	819	821.5					
3	Channel	26705	26740	26775					
3	Frequency	815.5	819	822.5					
1 1	Channel	26697	26740	26783					
1.4	Frequency	814.7	819	823.3					

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#### 3 Test Result

## 3.1 Conducted Output Power Measurement

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

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

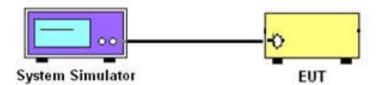
#### 3.1.2 Measuring Instruments

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

#### 3.1.3 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.

#### 3.1.4 Test Setup



#### 3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

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### 3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

#### 3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% 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 emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

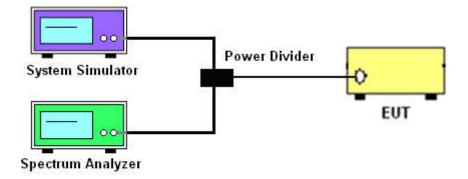
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

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#### 3.3 Emissions Mask Measurement

#### 3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116  $\log_{10}(f/6.1)$  decibels or 50 + 10  $\log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log<sub>10</sub>(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The emissions mask of low and high channels for the highest RF powers were measured.
- 3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
- 4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

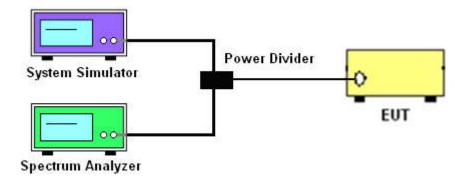
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## 3.3.4 Test Setup



## 3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

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#### 3.4 Emissions Mask - Out Of Band Emissions Measurement

#### 3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth 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 10<sup>th</sup> harmonic.

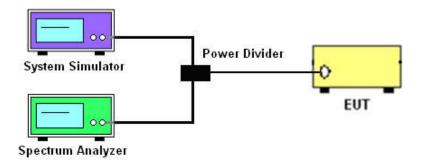
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a 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 43 + 10log(P)dB below the transmitter power P(Watts)

#### 3.4.4 Test Setup



#### 3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

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### 3.5 Field Strength of Spurious Radiation Measurement

#### 3.5.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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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  $43+10\log_{10}(P[Watts])$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.5.2 Measuring Instruments

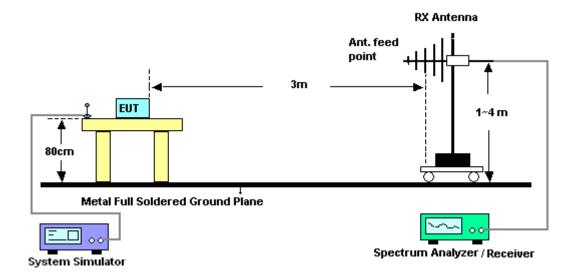
The measuring equipment is listed in the section 4 of this test report.

#### 3.5.3 Test Procedures

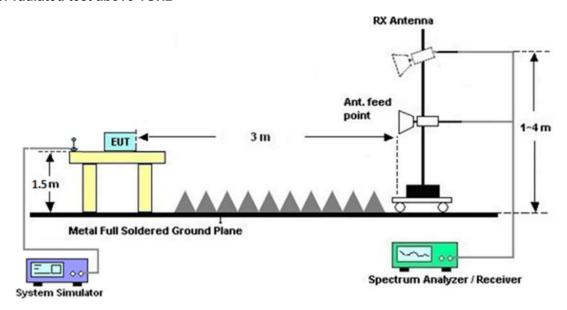
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position 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.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 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.
- 13. 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.

#### 3.5.4 Test Setup

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



#### For radiated test above 1GHz



## 3.5.5 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

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## 3.6 Frequency Stability Measurement

#### 3.6.1 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 according to FCC Part 90.213.

#### 3.6.2 Measuring Instruments

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

#### 3.6.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three
  hours. 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.

#### 3.6.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator
- 2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 3. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the
- 4. battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

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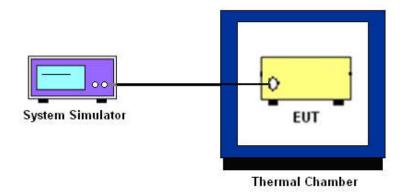
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### 3.6.5 Test Setup



## 3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

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## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 20, 2017	Apr. 16, 2018~ Apr. 18, 2018	Apr. 19, 2018	Conducted (TH01-SZ)
Radio Communication Analyzer	Anritsu	MT8820C	6201563777	2G/3G/4G (CDMA)	Jan. 03, 2018	Apr. 16, 2018~ Apr. 18, 2018	Jan. 02, 2019	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou p	LP-150U	H201408180 3	-40~+150°C	Jul. 20, 2017	Apr. 16, 2018~ Apr. 18, 2018	Jul. 19, 2018	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY5226018 5	20Hz~26.5GHz	Apr. 20, 2017	Apr. 16, 2018~ Apr. 17, 2018	Apr. 19, 2018	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY5327010 4	0.5GHz~26.5Gh z	Oct. 19, 2017	Apr. 16, 2018~ Apr. 17, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	May 10, 2017	Apr. 16, 2018~ Apr. 17, 2018	May 09, 2018	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jul. 28, 2017	Apr. 16, 2018~ Apr. 17, 2018	Jul. 27, 2018	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 20, 2017	Apr. 16, 2018~ Apr. 17, 2018	Apr. 19, 2018	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30- 10P-R	1707137	1GHz~18GHz	Oct. 19, 2017	Apr. 16, 2018~ Apr. 17, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	6160100019 85	N/A	NCR	Apr. 16, 2018~ Apr. 17, 2018	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 16, 2018~ Apr. 17, 2018	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 16, 2018~ Apr. 17, 2018	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

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## 5 Uncertainty of Evaluation

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

Macauring Uncertainty for a Layel of	
Measuring Uncertainty for a Level of	2.5 dB
Confidence of 95% (U = 2Uc(y))	

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

Measuring Uncertainty for a Level of	3.5 dB
Confidence of 95% (U = 2Uc(y))	3.5 UB

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

## Conducted Output Power (Average power)

	LTE Band 26 Maximum Average Power [dBm]										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest					
15	1	0		21.94							
15	1	37		22.34							
15	1	74		22.05							
15	36	0	QPSK	21.15							
15	36	20		21.17							
15	36	39		21.05							
15	75	0		21.14							
15	1	0		20.91	-	<del>-</del>					
15	1	37		20.84							
15	1	74		20.87							
15	36	0	16-QAM	20.25							
15	36	20		20.17							
15	36	39		20.03							
15	75	0		20.11							

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	LTE Band 26 Maximum Average Power [dBm]									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest				
10	1	0			21.77					
10	1	25			22.12					
10	1	49			21.75					
10	25	0	QPSK		20.94					
10	25	12			20.99					
10	25	25			21.04					
10	50	0			20.93					
10	1	0		<del>-</del>	20.65	-				
10	1	25			20.67					
10	1	49			20.85					
10	25	0	16-QAM		20.17					
10	25	12			19.98					
10	25	25			20.14					
10	50	0			20.03					
5	1	0		22.20	21.86	21.90				
5	1	12		22.22	22.07	21.90				
5	1	24		21.71	21.73	21.47				
5	12	0	QPSK	20.97	20.91	20.94				
5	12	7		21.02	20.89	20.92				
5	12	13		21.01	21.03	20.77				
5	25	0		21.01	20.93	21.00				
5	1	0		20.93	21.11	20.63				
5	1	12		20.66	20.88	20.41				
5	1	24		20.58	20.61	20.56				
5	12	0	16-QAM	19.90	19.81	19.98				
5	12	7		20.22	20.11	19.77				
5	12	13		20.12	20.07	19.83				
5	25	0		20.19	19.92	20.02				

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	LTE Band 26 Maximum Average Power [dBm]									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest				
3	1	0		21.82	21.73	22.05				
3	1	8		21.81	21.76	21.62				
3	1	14		21.78	21.66	21.54				
3	8	0	QPSK	20.91	20.96	21.07				
3	8	4		21.03	20.90	20.91				
3	8	7		20.93	20.97	20.90				
3	15	0		20.98	20.86	20.90				
3	1	0		20.60	20.50	20.66				
3	1	8		20.57	20.65	20.55				
3	1	14		20.65	20.64	20.59				
3	8	0	16-QAM	19.97	20.00	20.10				
3	8	4		20.09	19.96	19.86				
3	8	7		20.09	20.02	20.00				
3	15	0		20.09	19.97	20.03				
1.4	1	0		21.82	21.73	21.77				
1.4	1	3		21.81	21.76	22.12				
1.4	1	5		21.78	21.66	21.75				
1.4	3	0	QPSK	20.91	21.07	20.94				
1.4	3	1		21.03	20.96	20.99				
1.4	3	3		20.93	20.90	21.04				
1.4	6	0		20.98	20.90	20.93				
1.4	1	0		20.60	20.66	20.88				
1.4	1	3		20.57	20.65	20.82				
1.4	1	5		20.65	20.44	20.70				
1.4	3	0	16-QAM	19.97	20.00	19.94				
1.4	3	1		20.09	19.96	20.06				
1.4	3	3		20.09	20.02	20.13				
1.4	6	0		20.09	19.97	20.08				

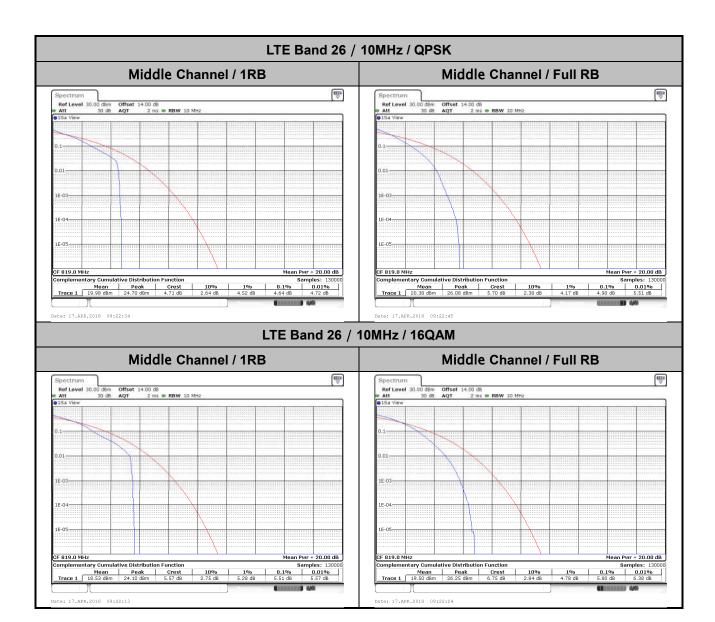
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## Peak-to-Average Ratio

Mode					
Mod.	QP	SK	160	Limit: 13dB	
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	
Middle CH	4.64	4.90	5.51	5.80	PASS
Highest CH	-	-	-	-	

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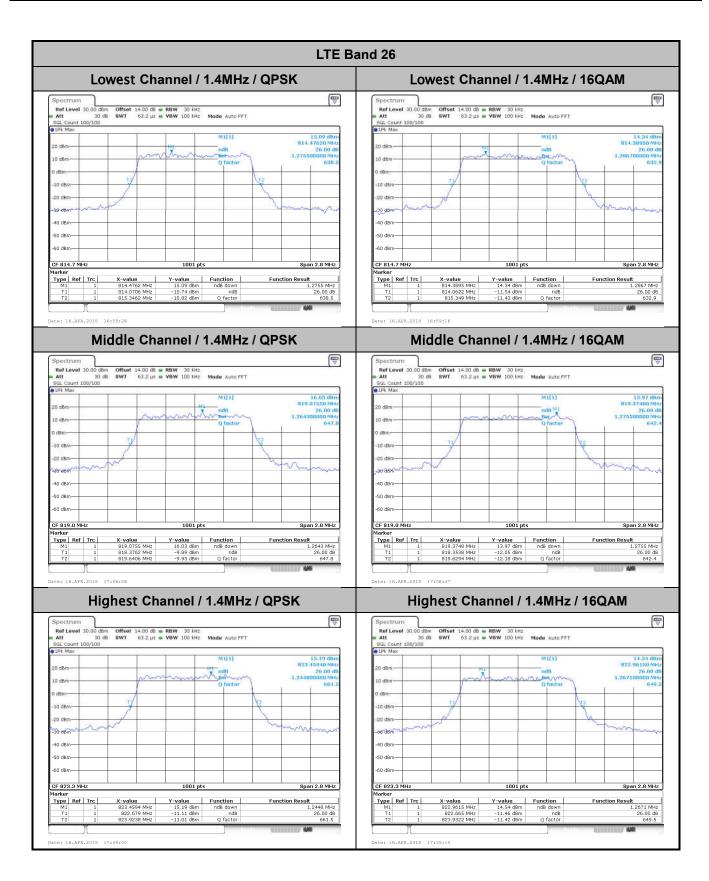
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## 26dB Bandwidth

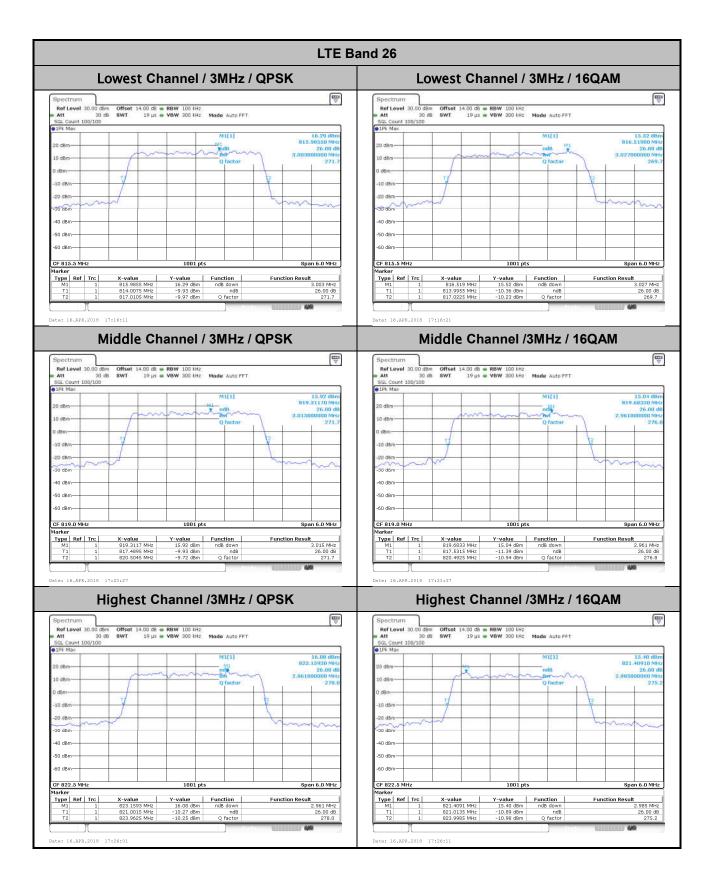
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.41	ИНz	z 3MHz 5MHz			101	ЛHz	15MHz				
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Lowest CH	1.276	1.287	3.003	3.027	4.915	4.975	-	-	14.266	14.266		
Middle CH	1.264	1.276	3.015	2.961	4.955	4.855	9.67	9.81	-	-		
Highest CH	1.245	1.267	2.961	2.985	4.885	4.835	-	-	-	-		

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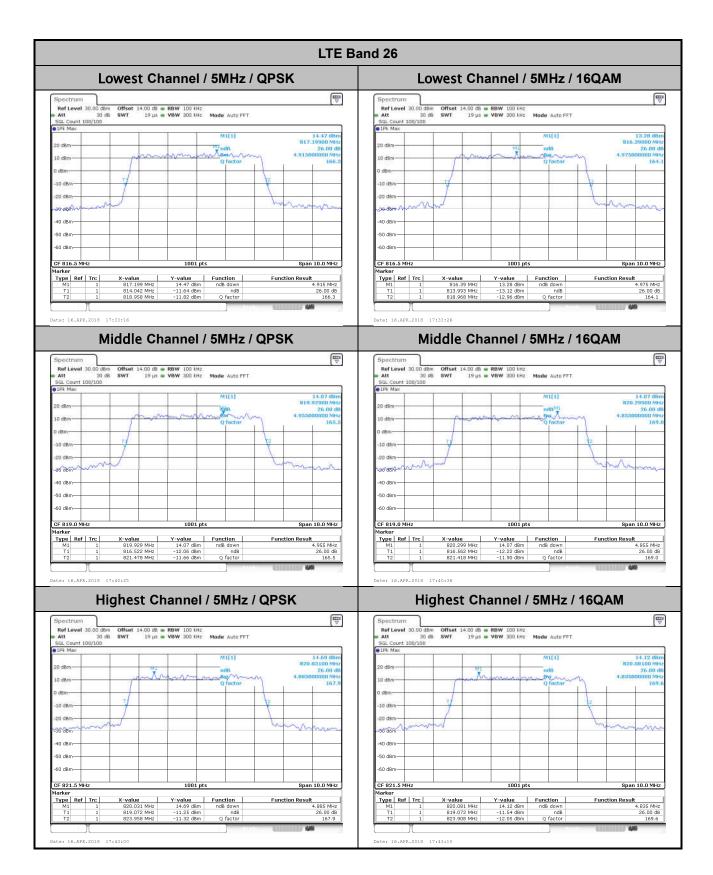
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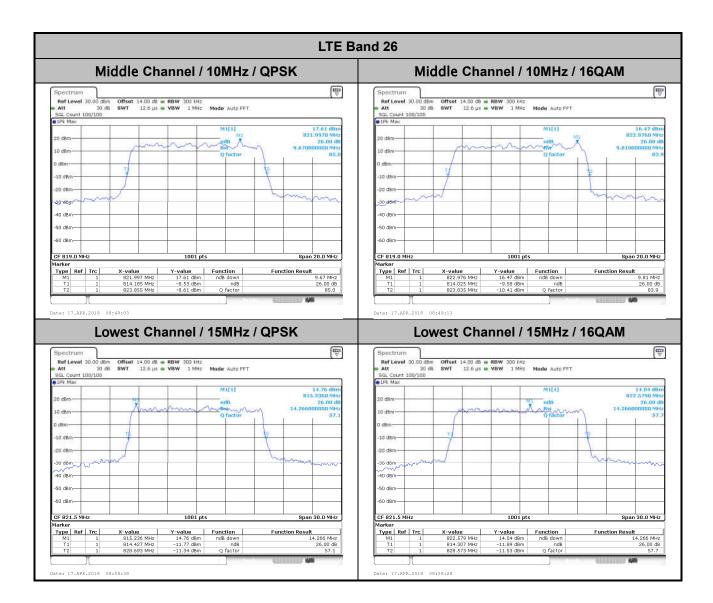
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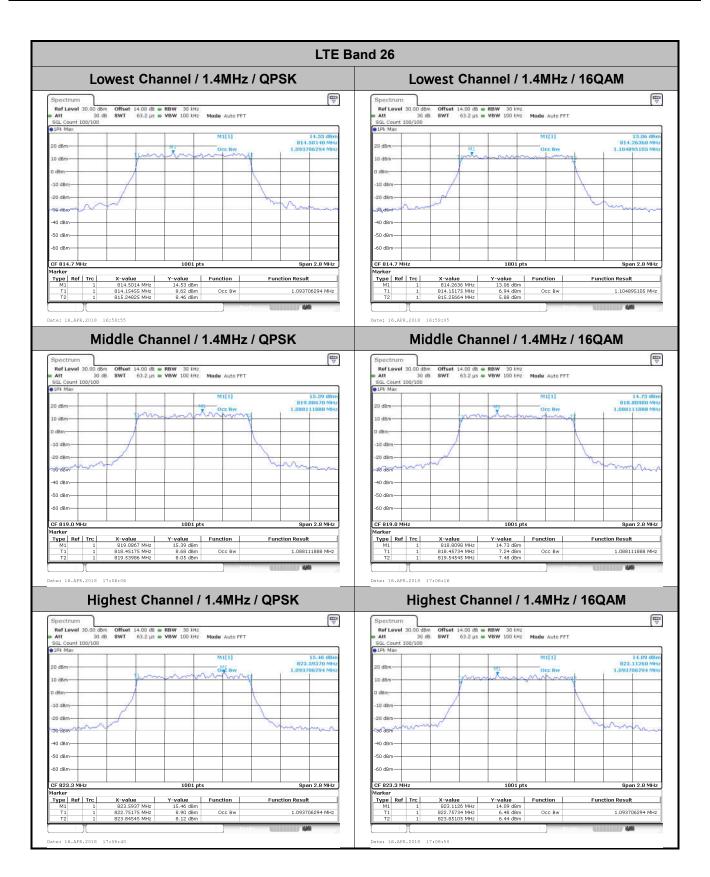
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## **Occupied Bandwidth**

Mode		LTE Band 26 : 99%OBW(MHz)											
BW	1.4	ИНz	3M	3MHz 5MHz		10MHz		15MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM			
Lowest CH	1.09	1.1	2.71	2.72	4.48	4.49	-	-	13.34	13.34			
Middle CH	1.09	1.09	2.72	2.75	4.47	4.5	9.01	8.95	-	-			
Highest CH	1.09	1.09	2.71	2.71	4.49	4.48	-	-	-	-			

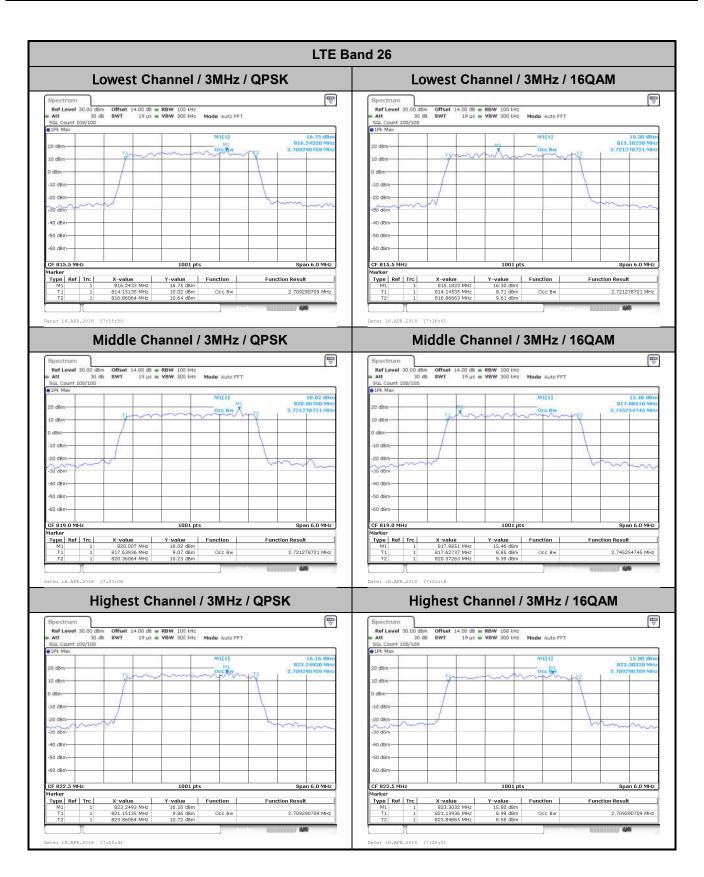
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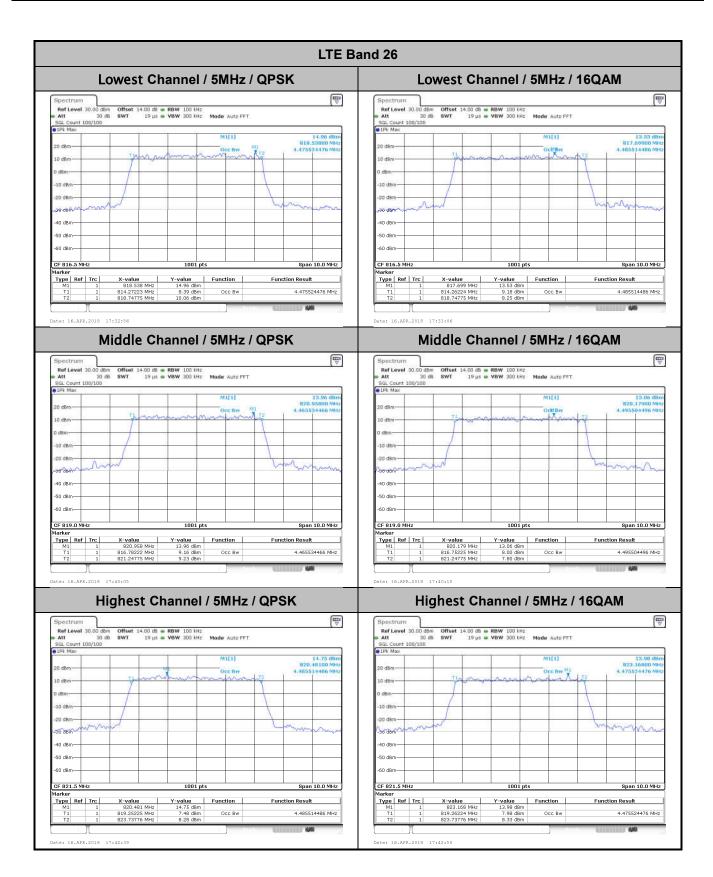


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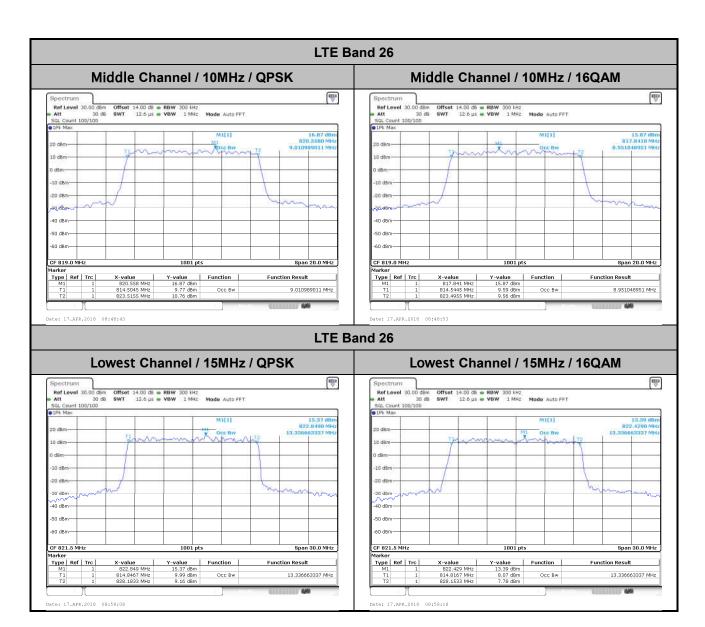


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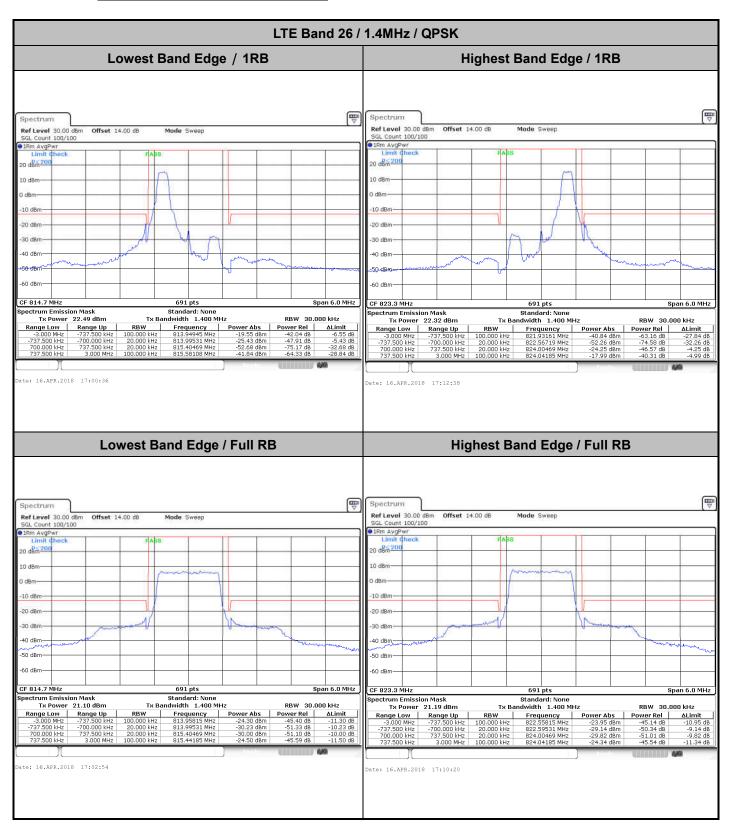


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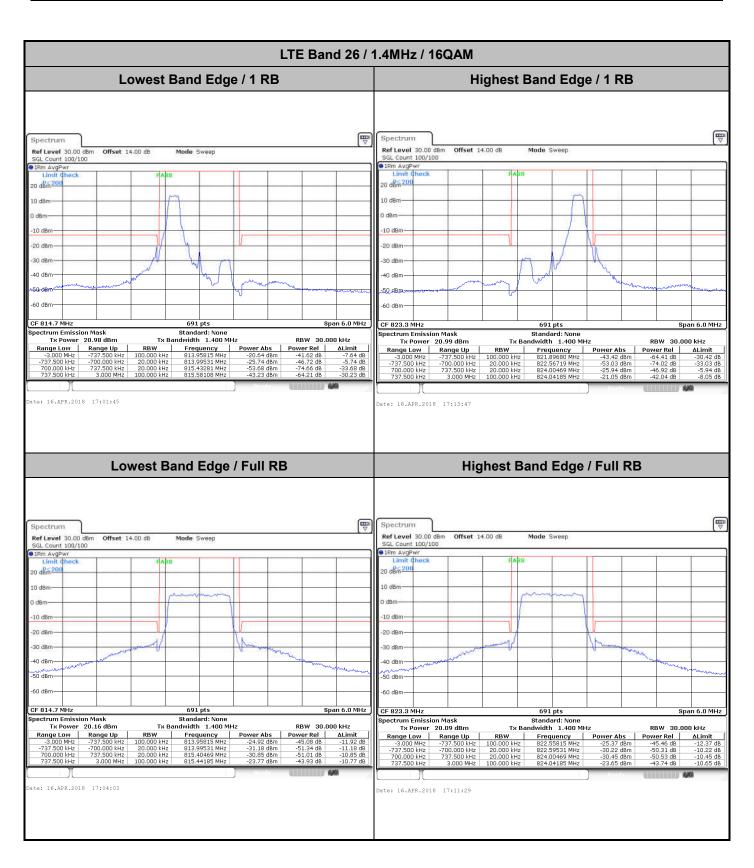
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## **Conducted Band Edge**

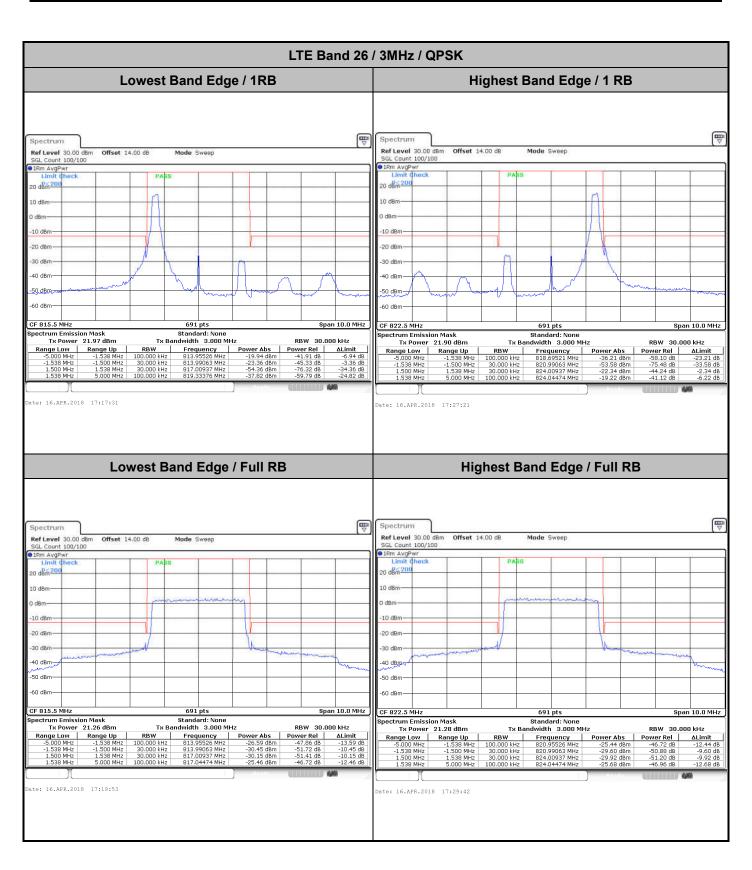


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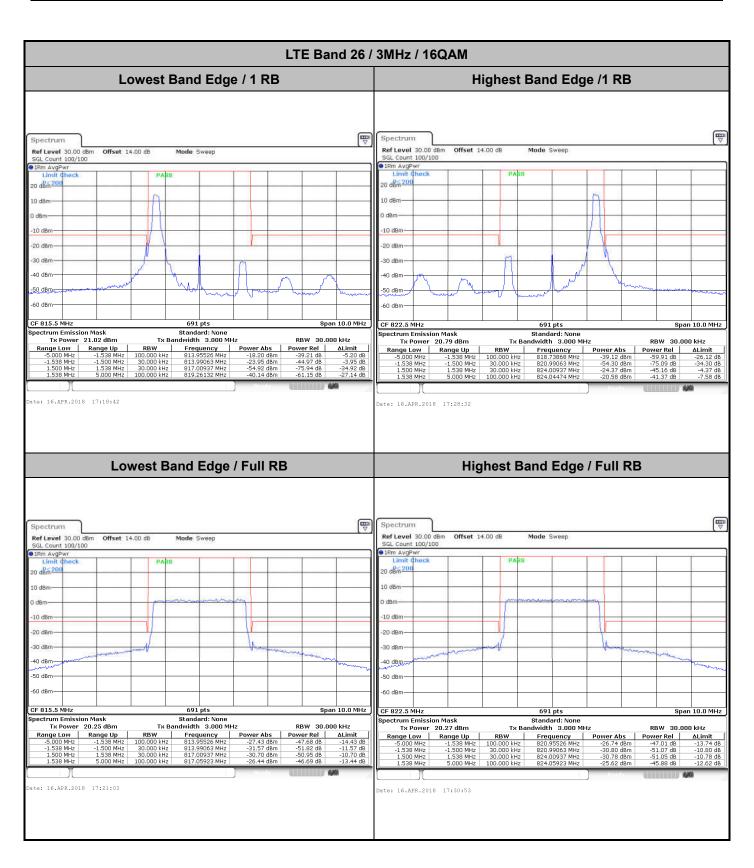


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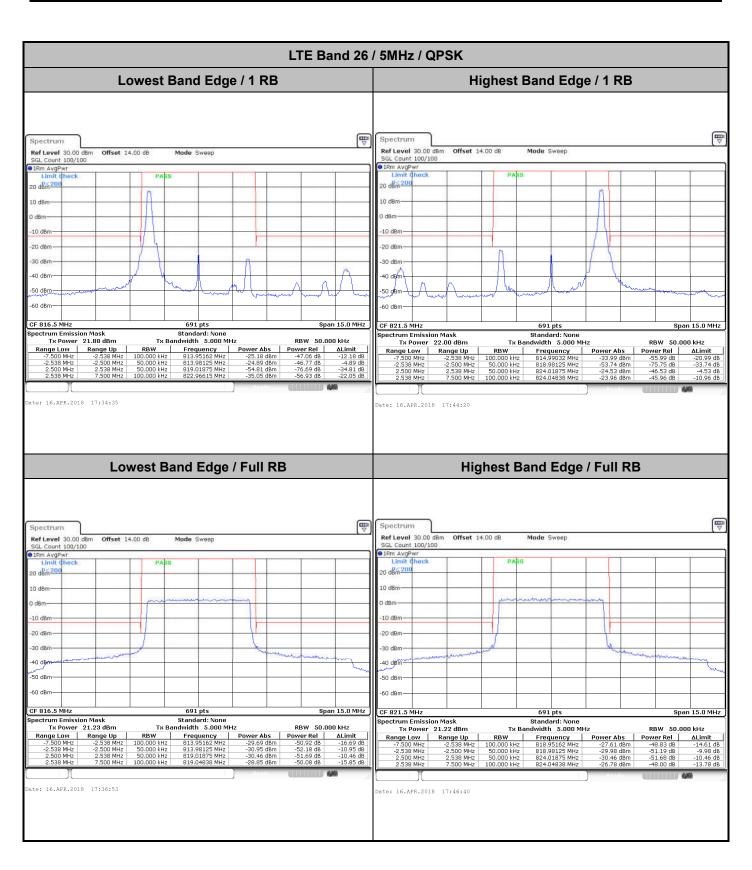
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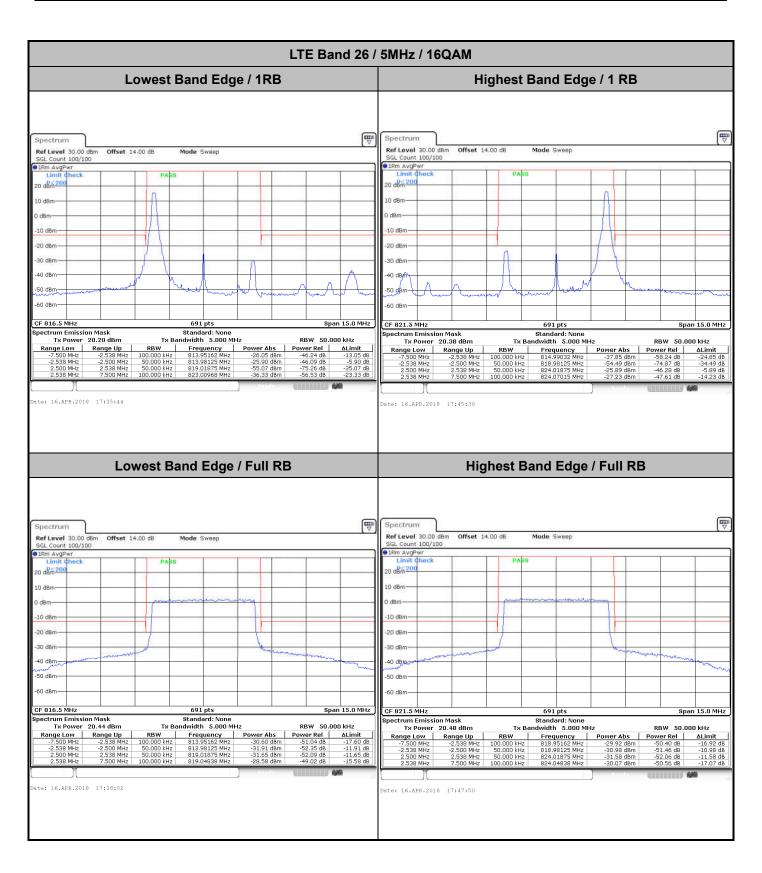
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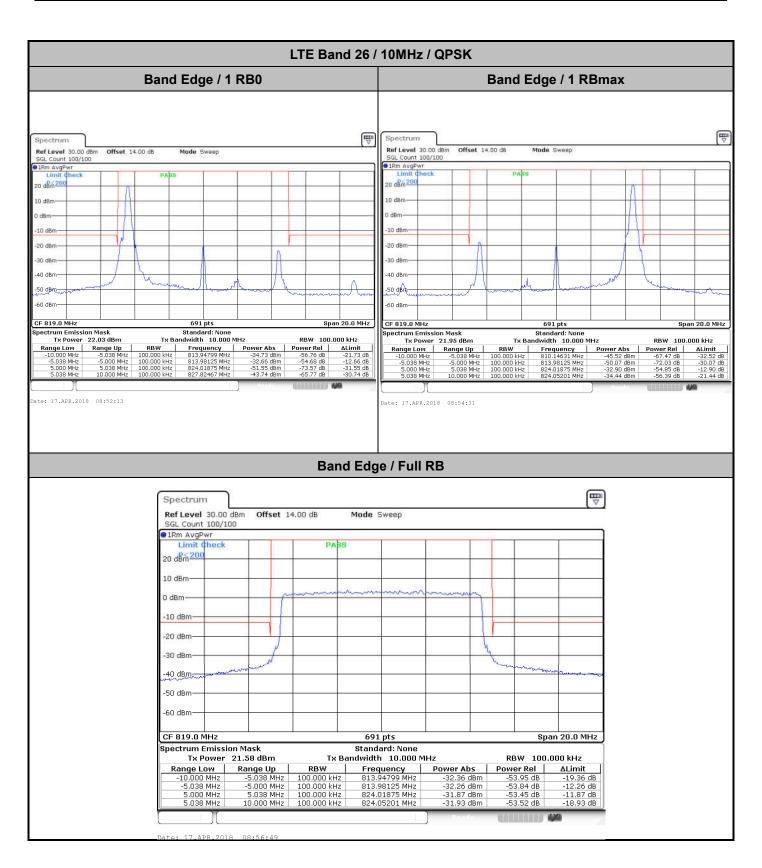
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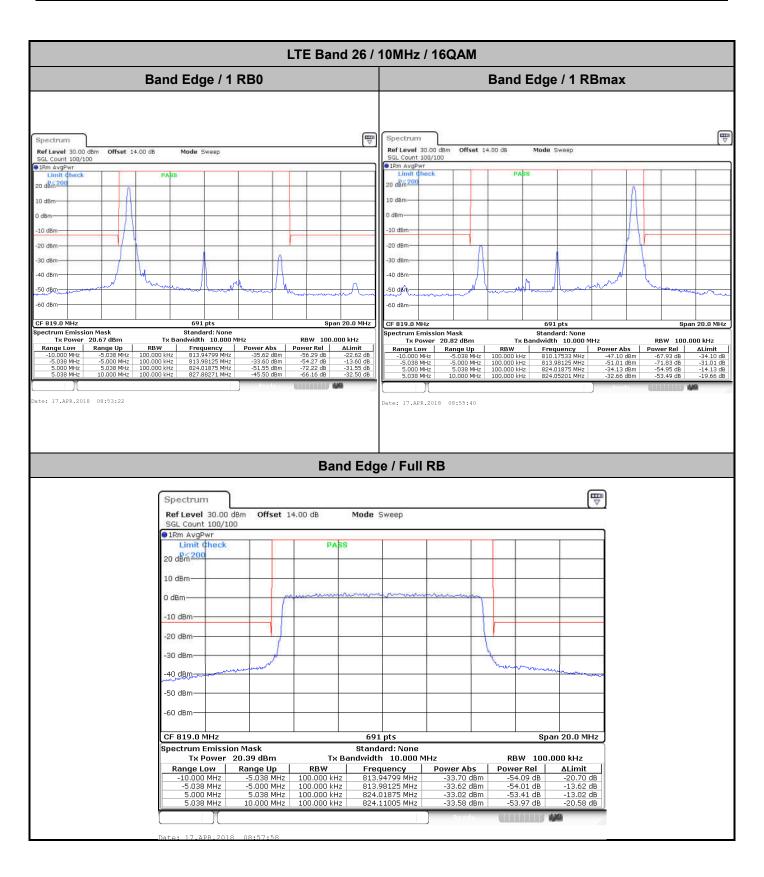
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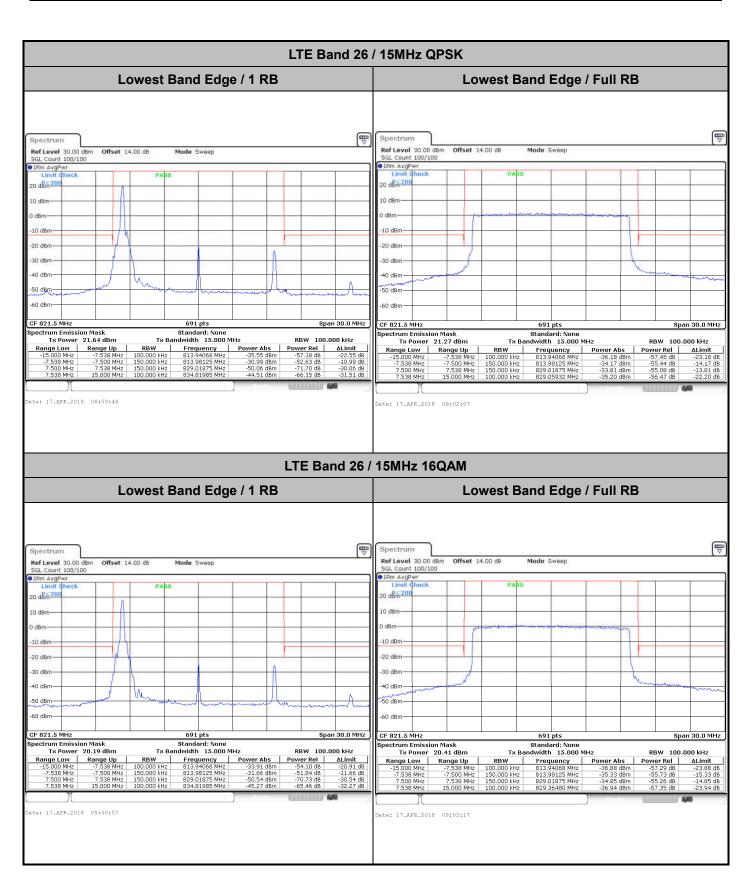
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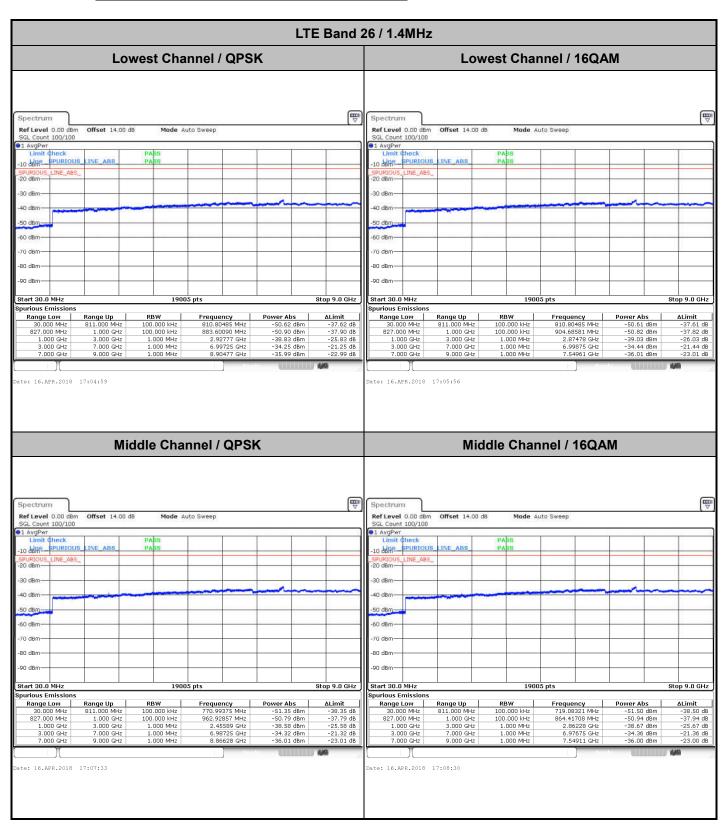


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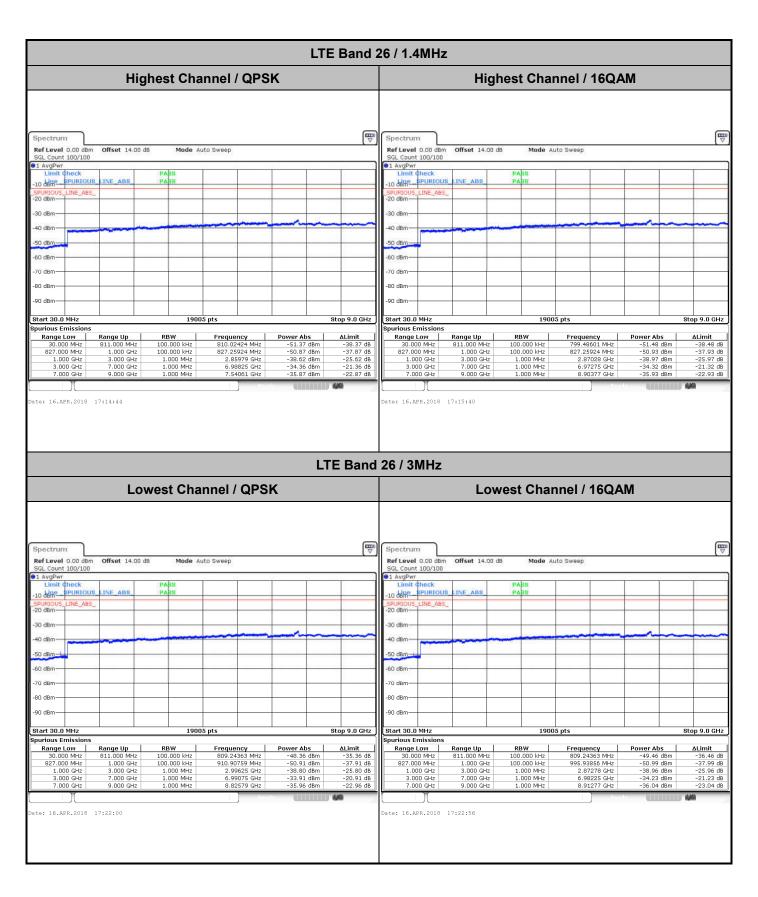
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## **Conducted Spurious Emission**

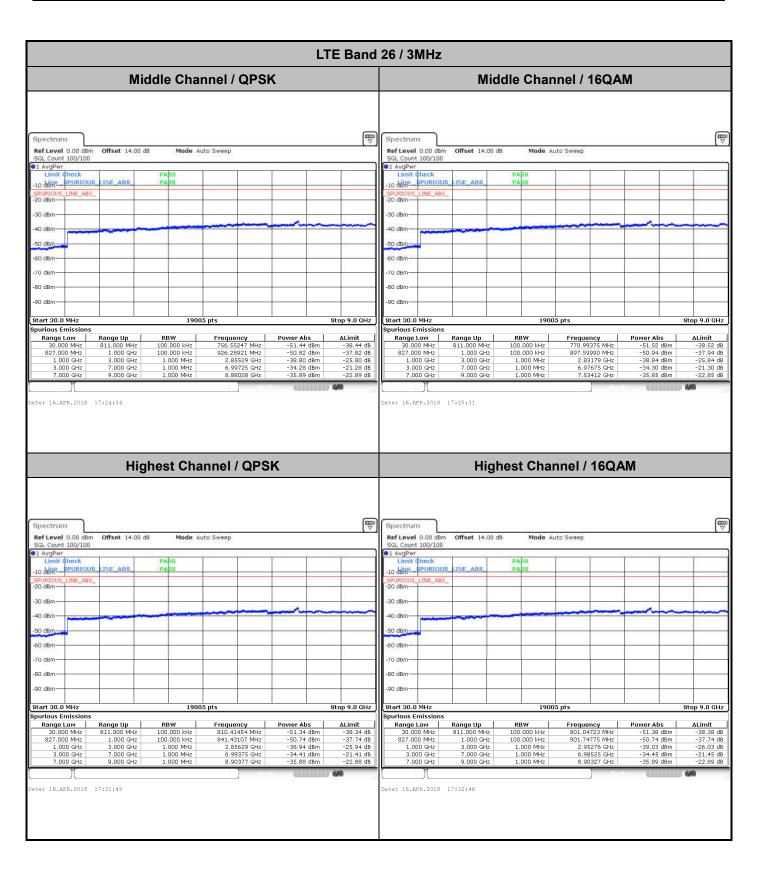


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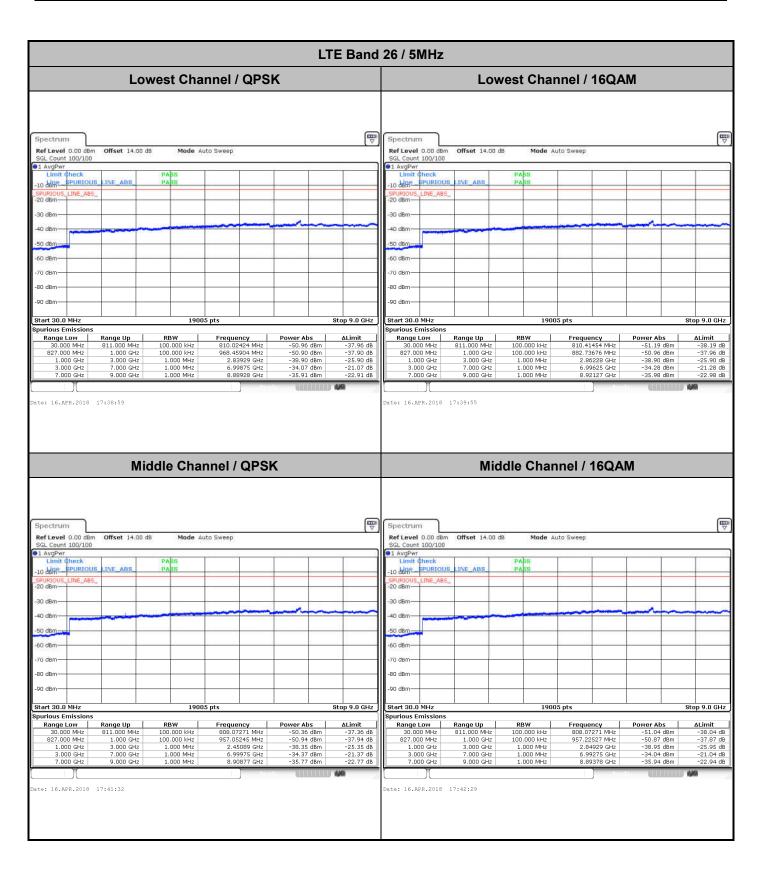
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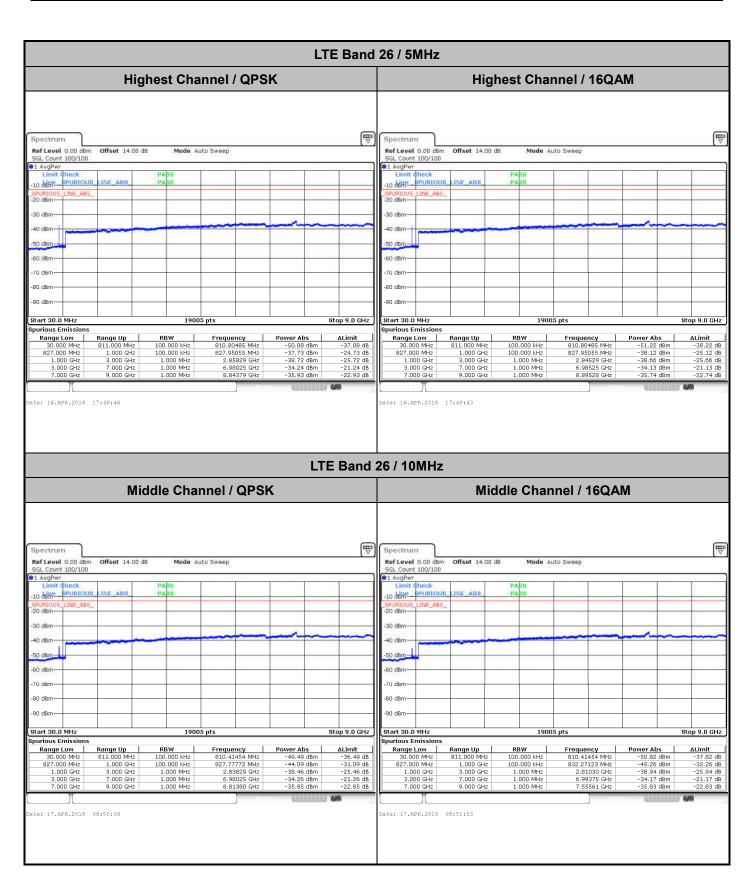
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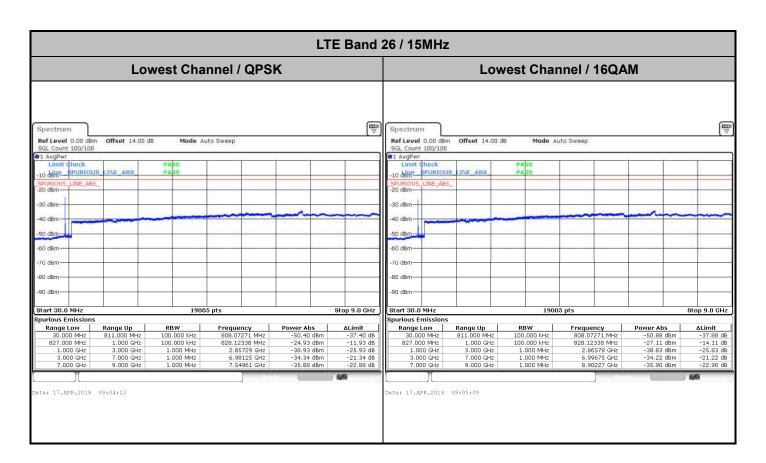
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# Frequency Stability

Test (	Conditions	LTE Band 26 (QPSK) / Middle Channel				
_ ,	V 16	BW 10MHz	2.5ppm			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result			
50	Normal Voltage	0.0022				
40	Normal Voltage	0.0013				
30	Normal Voltage	0.0012				
20(Ref.)	Normal Voltage	0.0000				
10	Normal Voltage	0.0013				
0	Normal Voltage	0.0013				
-10	Normal Voltage	0.0001	PASS			
-20	Normal Voltage	0.0005				
-30	Normal Voltage	0.0001				
20	Maximum Voltage	0.0001				
20	Normal Voltage	0.0004				
20	Battery End Point	0.0001				

Note: Normal Voltage =3.6 V.; Battery End Point (BEP) =3.3 V.; Maximum Voltage =4.2 V.

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

#### Radiated Spurious Emission

	LTE Band 26 / 1.4MHz / QPSK / RB Size 1 Offset 0											
Channel	Frequency (MHz)	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)			
Middle	1636.74	-70.61	-13	-57.61	-76.17	-75.02	2.84	9.40	Н			
	2455.11	-64.32	-13	-51.32	-74.74	-69.07	3.70	10.60	Н			
	3273.48	-65.03	-13	-52.03	-79.79	-71.11	4.37	12.60	Н			
	1636.74	-70.53	-13	-57.53	-75.24	-74.94	2.84	9.40	V			
	2455.11	-56.36	-13	-43.36	-66.19	-61.11	3.70	10.60	V			
	3273.48	-66.22	-13	-53.22	-79.79	-72.30	4.37	12.60	V			

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

LTE Band 26 / 3MHz / QPSK / RB Size 1 Offset 0											
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
Middle	1635.3	-71.55	-13	-58.55	-77.11	-75.96	2.84	9.40	Н		
	2452.95	-64.32	-13	-51.32	-74.74	-69.07	3.70	10.60	Н		
	3270.6	-65.01	-13	-52.01	-79.77	-71.09	4.37	12.60	Н		
	1635.3	-70.42	-13	-57.42	-75.13	-74.83	2.84	9.40	V		
	2452.95	-56.49	-13	-43.49	-66.32	-61.24	3.70	10.60	V		
	3270.6	-66.16	-13	-53.16	-79.73	-72.24	4.37	12.60	V		

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

Sporton International (Kunshan) Inc.

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	LTE Band 26 / 5MHz / QPSK / RB Size 1 Offset 0										
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
Middle	1633.5	-71.51	-13	-58.51	-77.07	-75.92	2.84	9.40	Н		
	2450.25	-65.08	-13	-52.08	-75.50	-69.83	3.70	10.60	Н		
	3267	-65.01	-13	-52.01	-79.77	-71.09	4.37	12.60	Н		
	1633.5	-70.73	-13	-57.73	-75.44	-75.14	2.84	9.40	V		
	2450.25	-57.00	-13	-44.00	-66.83	-61.75	3.70	10.60	V		
	3267	-66.00	-13	-53.00	-79.57	-72.08	4.37	12.60	V		

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

LTE Band 26 / 10MHz / QPSK / RB Size 1 Offset 0										
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)	
Middle	1629	-71.35	-13	-58.35	-76.91	-75.76	2.84	9.40	Н	
	2443.5	-66.78	-13	-53.78	-77.20	-71.53	3.70	10.60	Н	
	3258	-64.91	-13	-51.91	-79.67	-70.99	4.37	12.60	Н	
	1629	-69.10	-13	-56.10	-73.81	-73.51	2.84	9.40	V	
	2443.5	-59.51	-13	-46.51	-69.34	-64.26	3.70	10.60	V	
	3258	-66.10	-13	-53.10	-79.67	-72.18	4.37	12.60	V	

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

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