FCC RF Test Report

APPLICANT	:	**Gosuncn Technology Group Co., Ltd.**
EQUIPMENT	:	**Wireless Home Phone**
BRAND NAME	:	**GOSUNCN**
MODEL NAME	:	**GW500**
FCC ID	:	**2APNR-GW500**
STANDARD	:	**47 CFR Part 2, and 90(S)**
CLASSIFICATION	:	**PCS Licensed Transmitter (PCB)**

The product was received on Jul. 19, 2019 and completely tested on Sep. 01, 2019. 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.

Derreck Chen

Reviewed by: Derreck Chen / Supervisor

Eric Shih

Approved by: Eric Shih / Manager

ACCREDITED Cert #5145.01

Sporton International (ShenZhen) Inc.
1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW971908	Rev. 01	Initial issue of report	Sep. 11, 2019

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 §90.691	Emission masks – In-band emissions	< $50+10\log_{10}$(P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< $43+10\log_{10}$(P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 40.43 dB at 1633.500 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

Gosuncn Technology Group Co., Ltd.
6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

1.2 Manufacturer

Gosuncn Technology Group Co., Ltd.
6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Home Phone
Brand Name	GOSUNCN
Model Name	GW500
FCC ID	2APNR-GW500
EUT supports Radios application	LTE/GNSS
HW Version	EN_K500HPEL_MB_C
SW Version	EN_K500HPELV1.0.0B02
EUT Stage	Production Unit

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	22.98 dBm
Antenna Gain	0.00 dBi
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

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

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	-	1M10G7D	0.1919
Part 90S	LTE Band 26	16QAM	1.4 MHz	-	1M09W7D	0.1611
Part 90S	LTE Band 26	QPSK	3 MHz	-	2M73G7D	0.1914
Part 90S	LTE Band 26	16QAM	3 MHz	-	2M73W7D	0.1596
Part 90S	LTE Band 26	QPSK	5 MHz	-	4M51G7D	0.1986
Part 90S	LTE Band 26	16QAM	5 MHz	-	4M50W7D	0.1611
Part 90S	LTE Band 26	QPSK	10 MHz	0.0033	9M01G7D	0.1845
Part 90S	LTE Band 26	16QAM	10 MHz	-	8M99W7D	0.1589
Part 90S	LTE Band 26	QPSK	15 MHz	-	13M4G7D	0.1914
Part 90S	LTE Band 26	16QAM	15 MHz	-	13M4W7D	0.1483

1.7 Testing Site

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-SZ	CN1256	421272

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, 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:

1. 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.

2 Test Configuration of Equipment Under Test

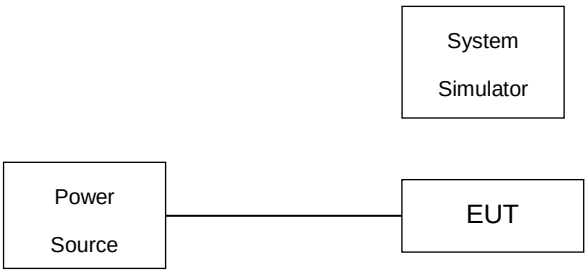
2.1 Test Mode

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 9000 MHz.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v
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		v	
Radiated Spurious Emission	26	v	v	v	v	v	-	v		v			v	v	v
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. 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.														

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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

2.4 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)

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	-	-
	Frequency	821.5	-	-
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3

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.

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.

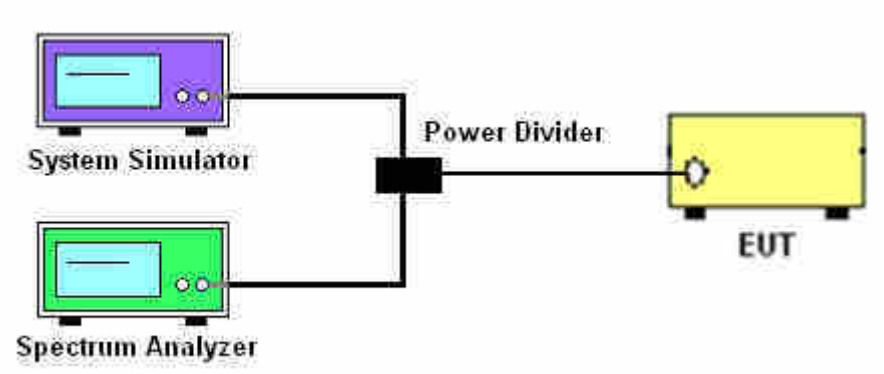
3.2.2 Measuring Instruments

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.
2. 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.

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 + $10Log_{10}(P)$ 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 37.5 kHz.

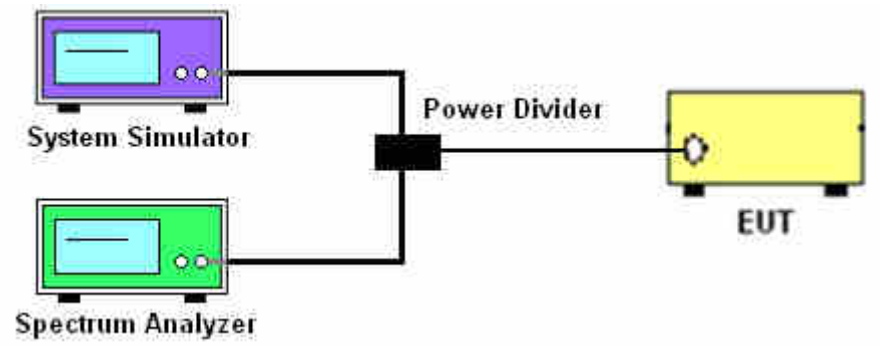
3.3.2 Measuring Instruments

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.

3.3.4 Test Setup



3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

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 10th harmonic.

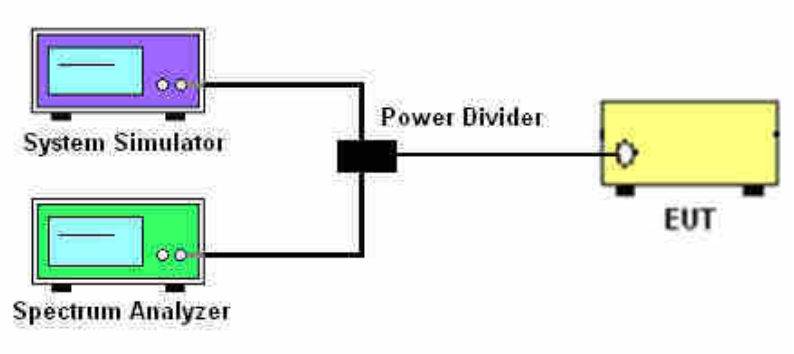
3.4.2 Measuring Instruments

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.

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/TIA-603-E. 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.

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

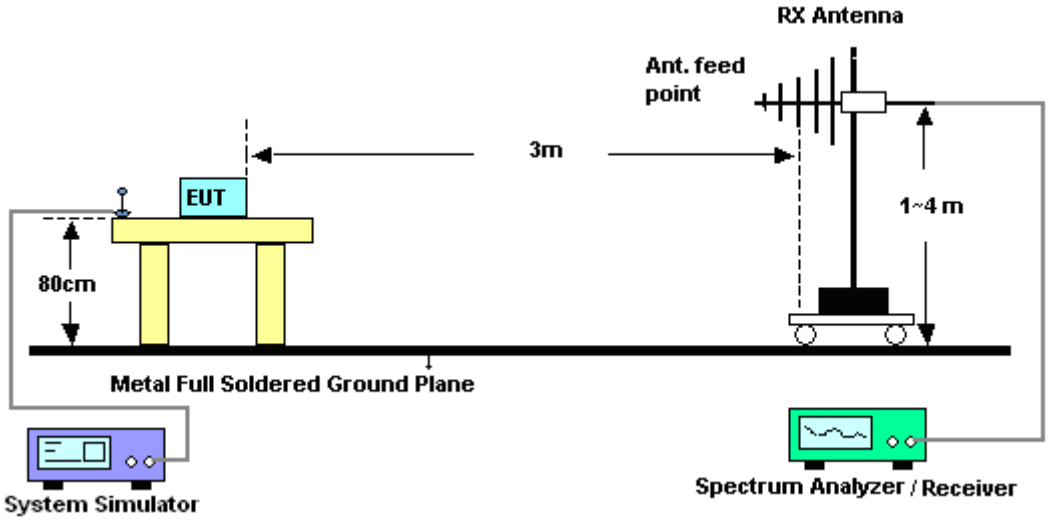
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

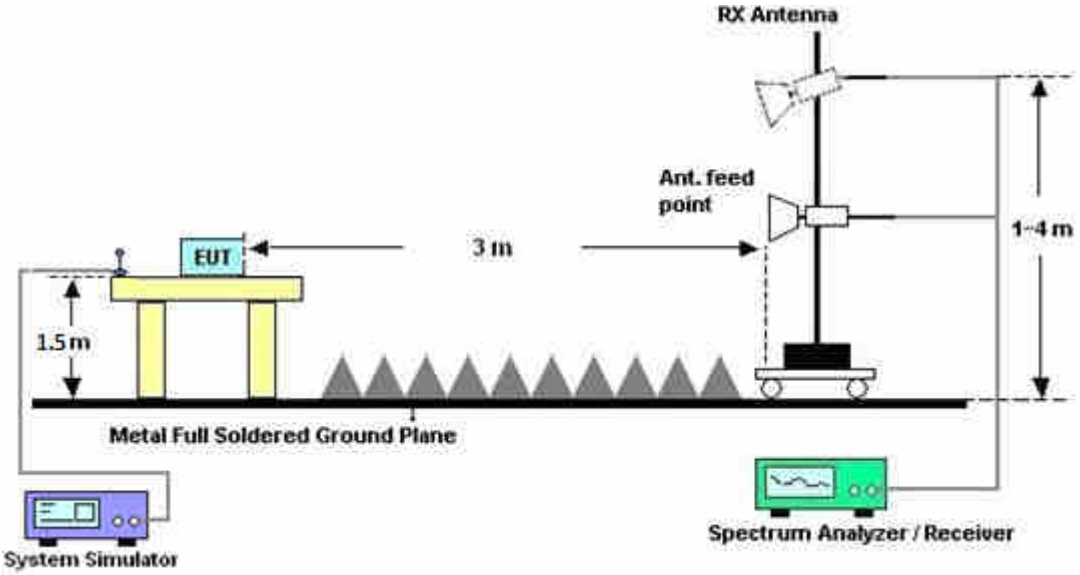
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position 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.
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)

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.

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.

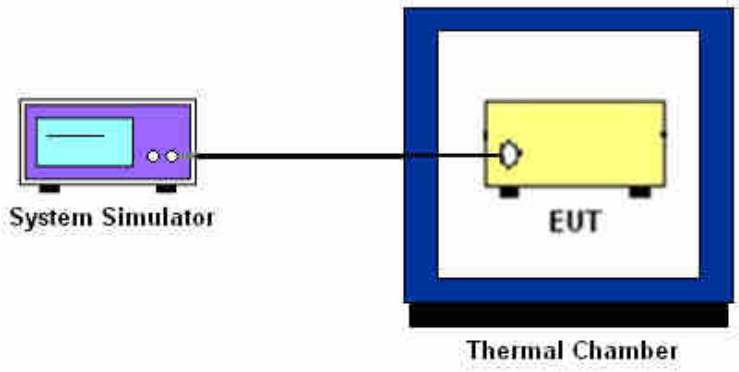
3.6.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. 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.

3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

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	10Hz~40GHz	Apr. 18, 2019	Aug. 31, 2019	Apr. 17, 2020	Conducted (TH01-SZ)
DC Power Supply	GWINSTEK	AnritsuGPS-3030D	EM882636	Max 30V	Apr. 18, 2019	Aug. 31, 2019	Apr. 17, 2020	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Apr. 18, 2019	Sep. 01, 2019	Apr. 17, 2020	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 18, 2019	Sep. 01, 2019	Apr. 17, 2020	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Aug. 27, 2019	Sep. 01, 2019	Aug. 26, 2020	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Apr. 01, 2019	Sep. 01, 2019	Mar. 31, 2020	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2018	Sep. 01, 2019	Oct. 17, 2019	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2018	Sep. 01, 2019	Oct. 17, 2019	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Sep. 01, 2019	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 01, 2019	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 01, 2019	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.1dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

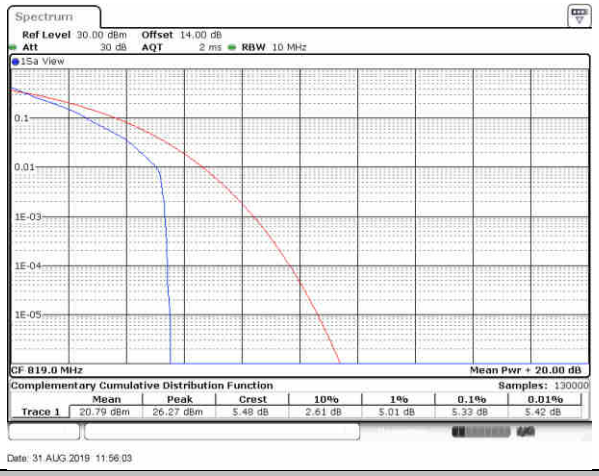
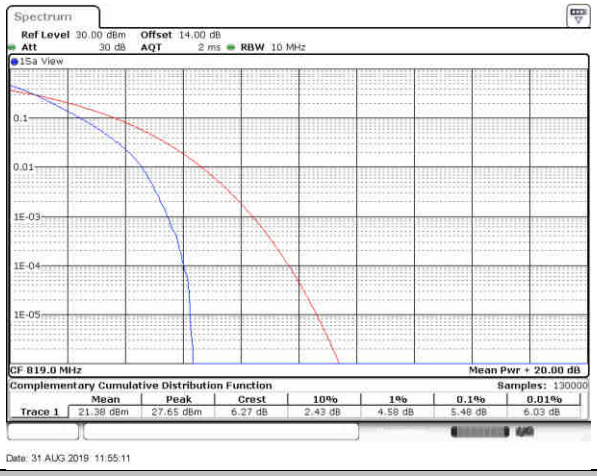
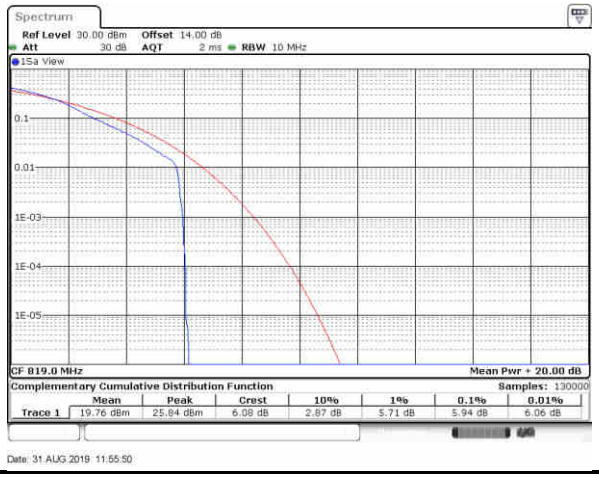
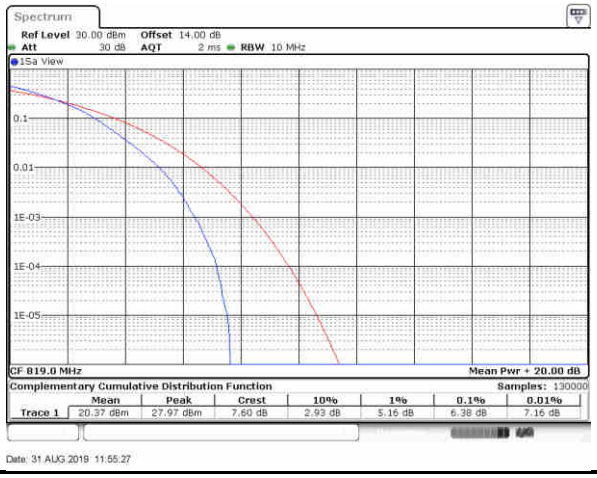
LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.50	-	-
15	1	37		22.82		
15	1	74		22.81		
15	36	0		21.55		
15	36	20		21.70		
15	36	39		21.87		
15	75	0		21.70		
15	1	0	16-QAM	21.52		
15	1	37		21.49		
15	1	74		21.71		
15	36	0		20.53		
15	36	20		20.79		
15	36	39		20.74		
15	75	0		20.70		

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	-	22.66	-
10	1	25			22.60	
10	1	49			22.45	
10	25	0			21.80	
10	25	12			21.95	
10	25	25			21.87	
10	50	0			21.85	
10	1	0	16-QAM		22.01	
10	1	25			21.87	
10	1	49			21.52	
10	25	0			20.90	
10	25	12			21.03	
10	25	25			20.83	
10	50	0			20.94	
5	1	0	QPSK	22.21	22.54	22.81
5	1	12		22.86	22.98	22.61
5	1	24		22.63	22.90	22.30
5	12	0		21.64	21.87	21.82
5	12	7		21.66	21.86	21.81
5	12	13		21.55	21.81	21.78
5	25	0		21.60	21.81	21.75
5	1	0	16-QAM	21.50	21.66	22.07
5	1	12		21.59	21.64	21.51
5	1	24		21.38	21.64	21.39
5	12	0		20.62	20.66	20.73
5	12	7		20.75	20.84	20.69
5	12	13		20.64	20.71	20.65
5	25	0		20.67	20.79	20.83

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.55	22.78	22.82
3	1	8		22.36	22.82	22.81
3	1	14		22.54	22.76	22.77
3	8	0		21.74	21.84	21.77
3	8	4		21.75	21.86	21.70
3	8	7		21.64	21.83	21.80
3	15	0		21.62	21.83	21.82
3	1	0	16-QAM	21.62	21.73	21.60
3	1	8		21.48	21.62	21.45
3	1	14		21.43	22.03	21.56
3	8	0		20.82	20.94	21.01
3	8	4		20.80	20.83	20.74
3	8	7		20.68	20.58	20.75
3	15	0		20.62	20.74	20.70
1.4	1	0	QPSK	22.41	22.64	22.72
1.4	1	3		22.50	22.83	22.80
1.4	1	5		22.45	22.65	22.77
1.4	3	0		22.55	22.76	22.74
1.4	3	1		22.61	22.70	22.69
1.4	3	3		22.58	22.78	22.79
1.4	6	0		21.64	21.95	21.72
1.4	1	0	16-QAM	21.57	21.68	21.56
1.4	1	3		21.62	21.89	21.64
1.4	1	5		21.52	21.70	21.51
1.4	3	0		21.63	21.86	21.81
1.4	3	1		21.70	21.92	21.92
1.4	3	3		21.67	21.86	22.07
1.4	6	0		20.60	20.79	20.73

Peak-to-Average Ratio

Mode	LTE Band 26 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.33	5.48	5.94	6.38	
Highest CH	-	-	-	-	

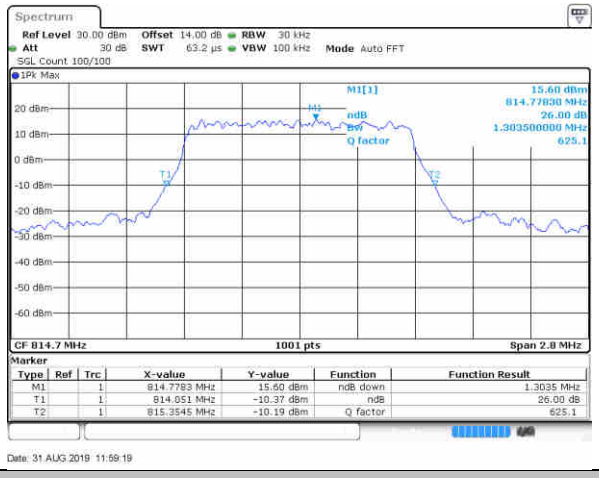
LTE Band 26 / 10MHz / QPSK	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
LTE Band 26 / 10MHz / 16QAM	
Middle Channel / 1RB	**Middle Channel / Full RB**
	

26dB Bandwidth

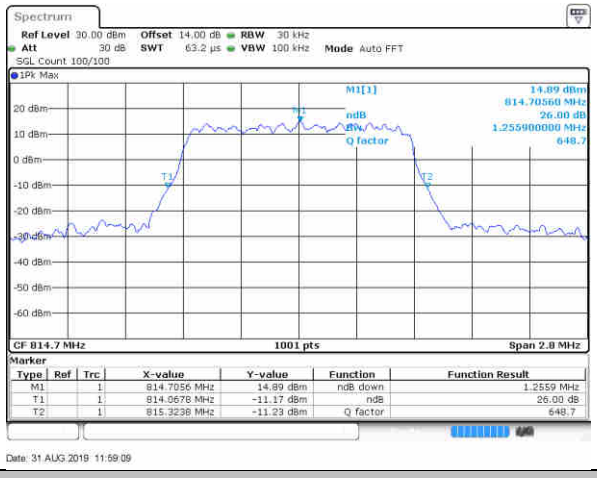
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.3035	1.2559	3.027	2.973	4.875	4.885	-	-	14.386	14.356	-	-
Middle CH	1.2503	1.2951	2.979	3.021	4.995	4.995	9.83	9.83	-	-	-	-
Highest CH	1.2727	1.2699	3.015	3.039	4.895	4.905	-	-	-	-	-	-

LTE Band 26

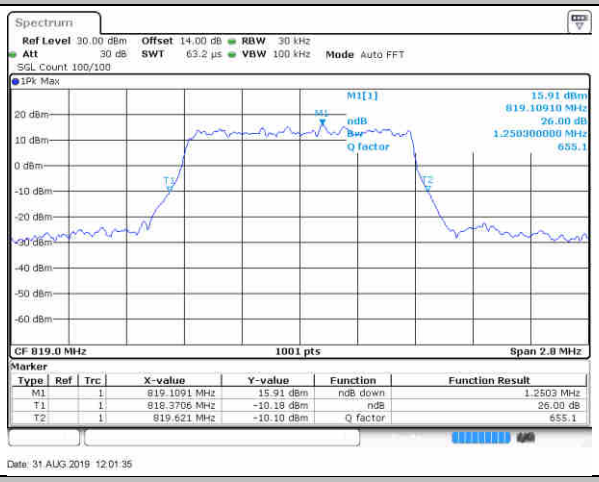
Lowest Channel / 1.4MHz / QPSK



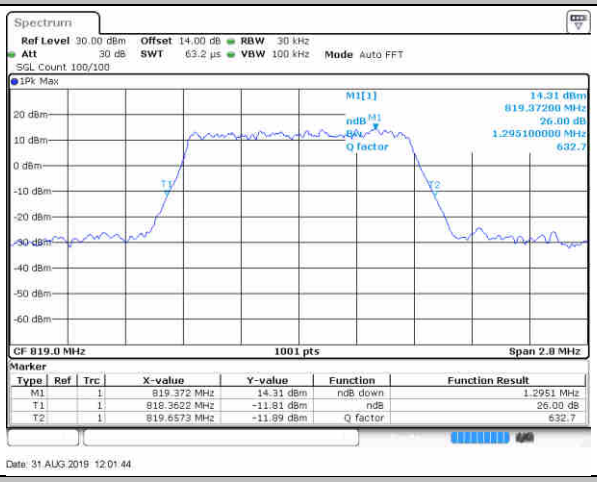
Lowest Channel / 1.4MHz / 16QAM



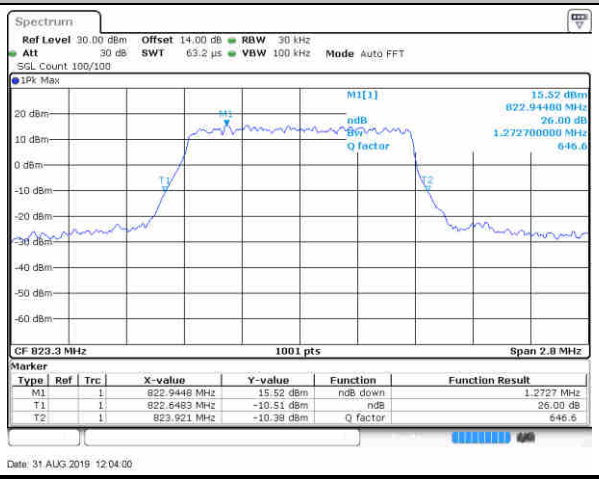
Middle Channel / 1.4MHz / QPSK



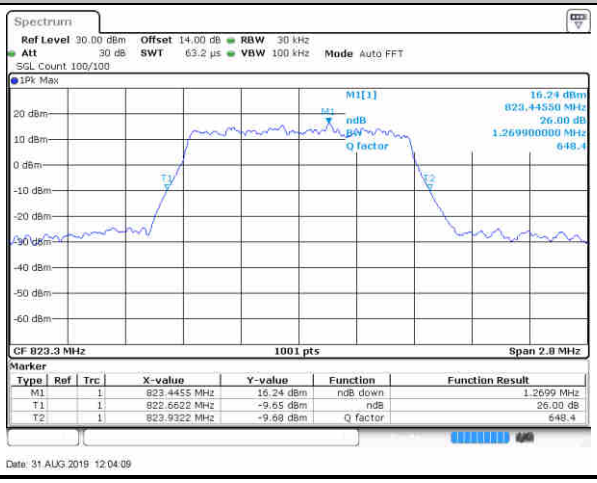
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

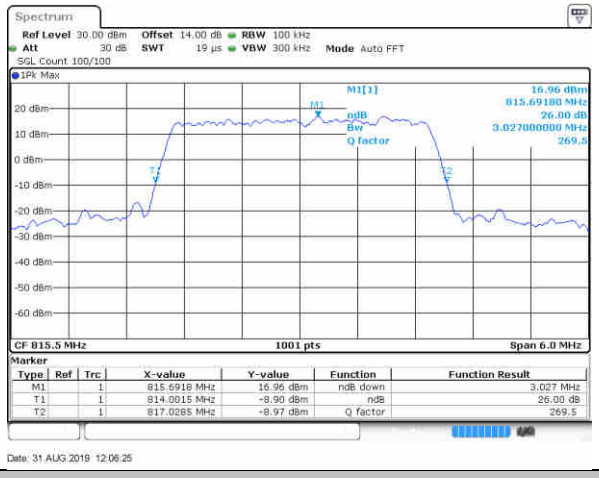


Highest Channel / 1.4MHz / 16QAM

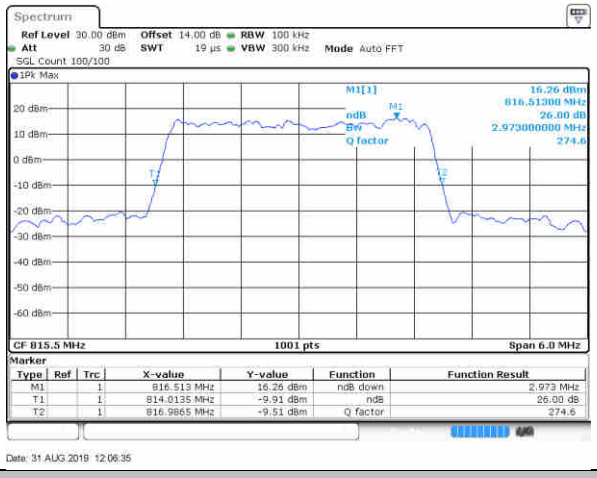


LTE Band 26

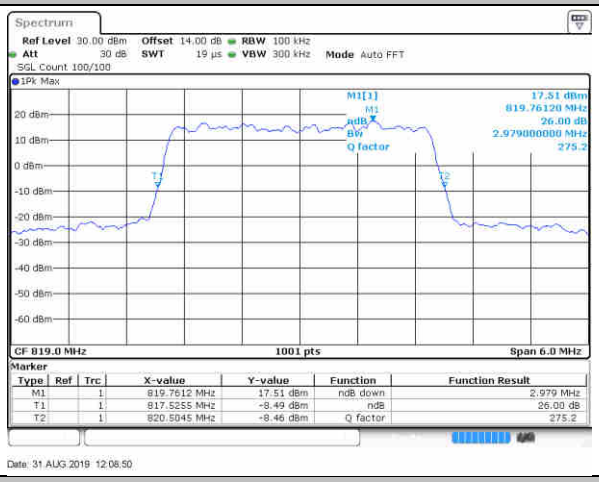
Lowest Channel / 3MHz / QPSK



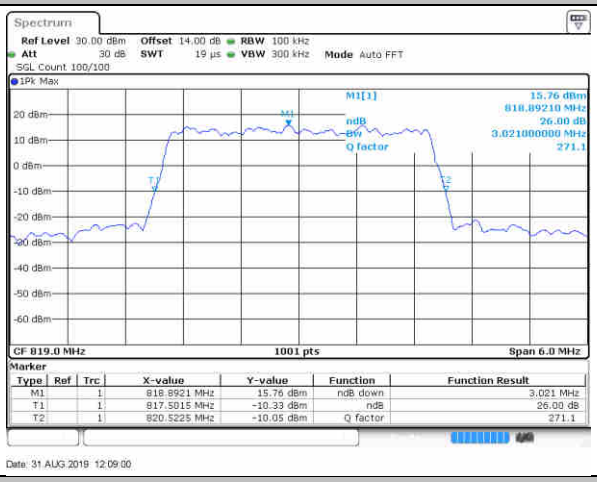
Lowest Channel / 3MHz / 16QAM



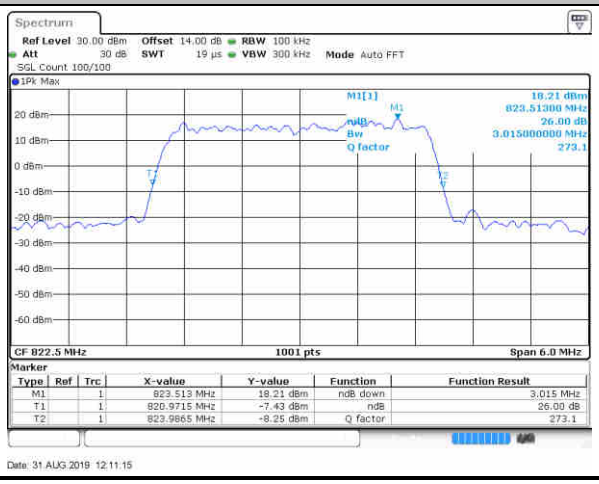
Middle Channel / 3MHz / QPSK



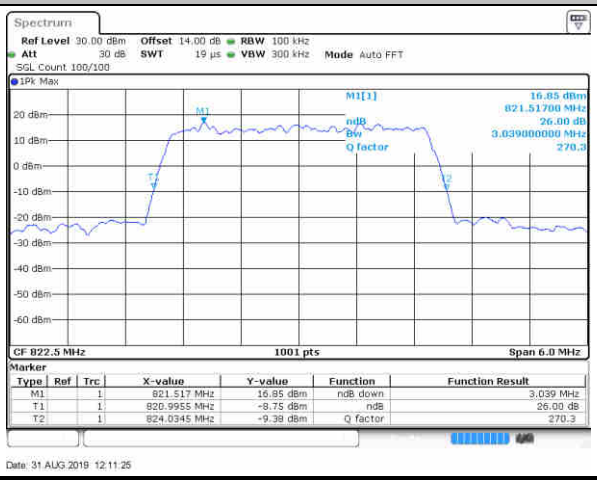
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

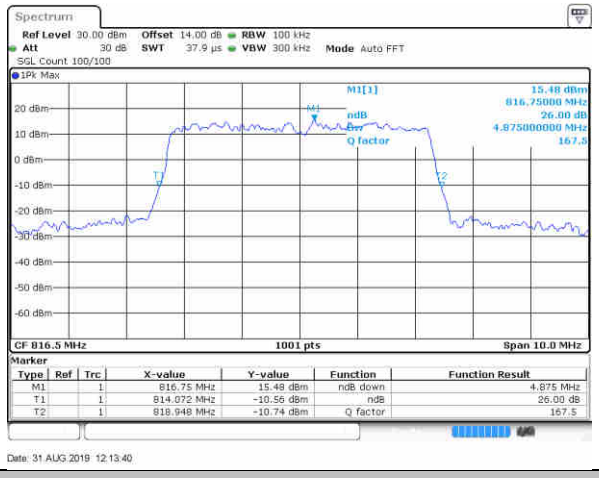


Highest Channel /3MHz / 16QAM

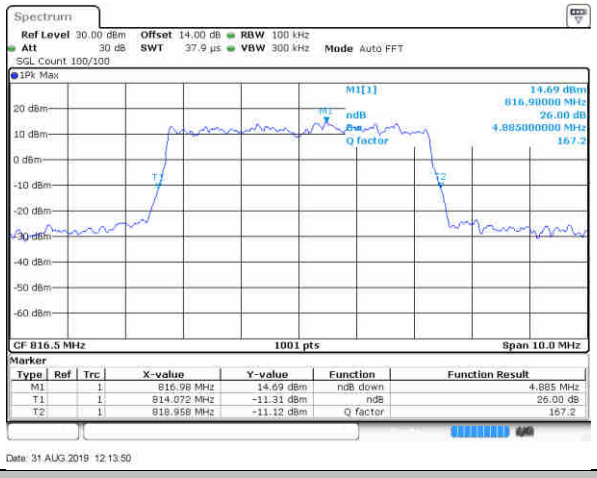


LTE Band 26

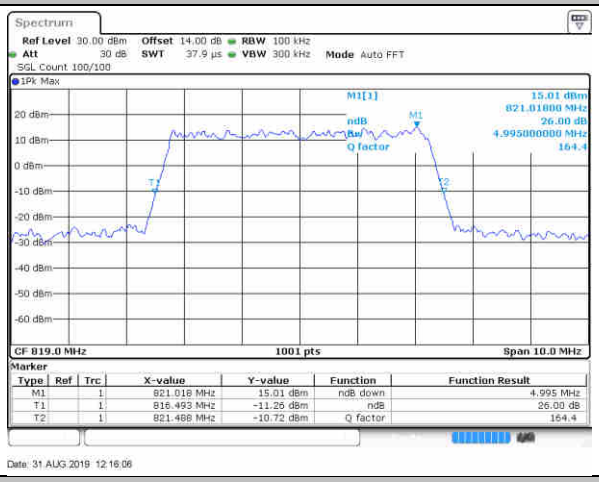
Lowest Channel / 5MHz / QPSK



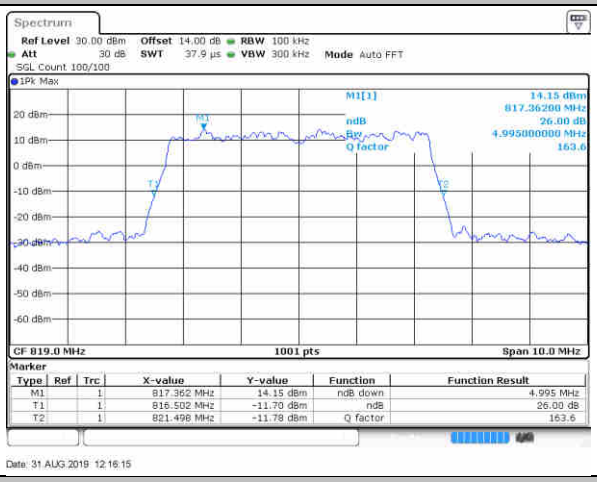
Lowest Channel / 5MHz / 16QAM



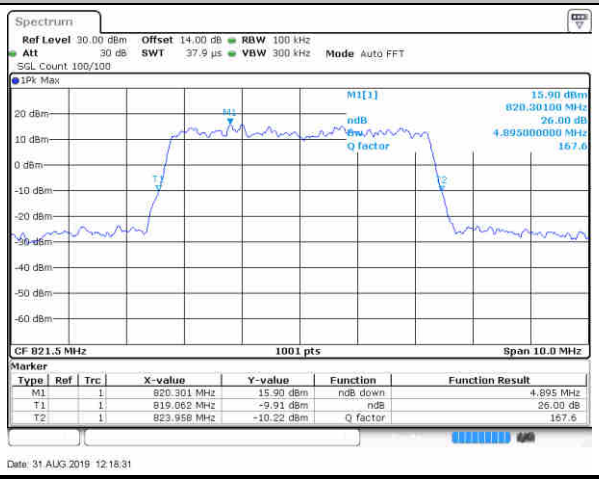
Middle Channel / 5MHz / QPSK



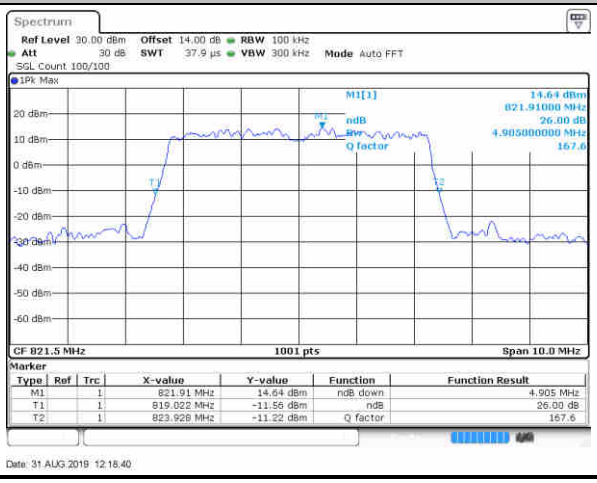
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

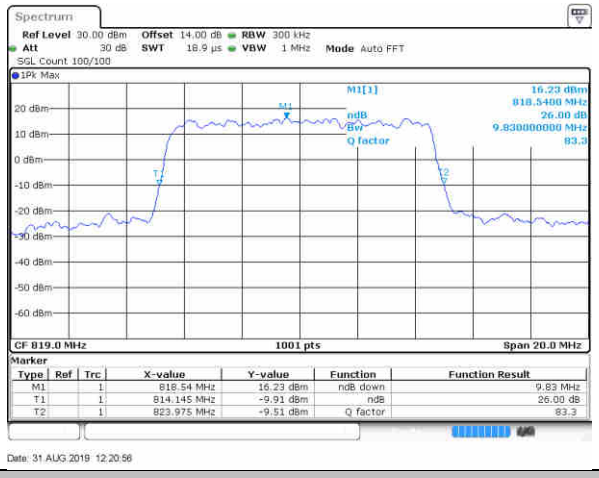


Highest Channel / 5MHz / 16QAM

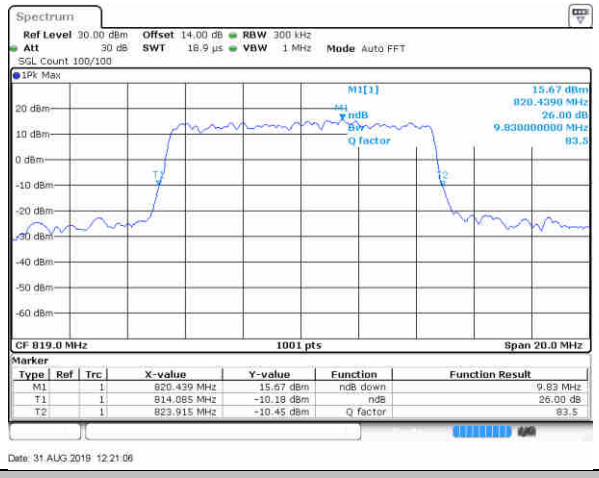


LTE Band 26

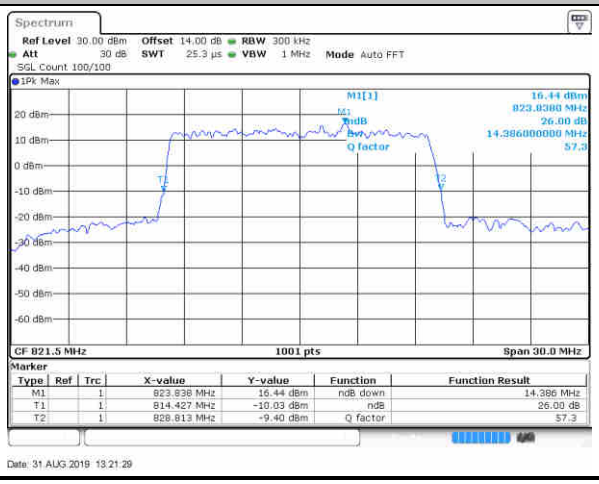
Middle Channel / 10MHz / QPSK



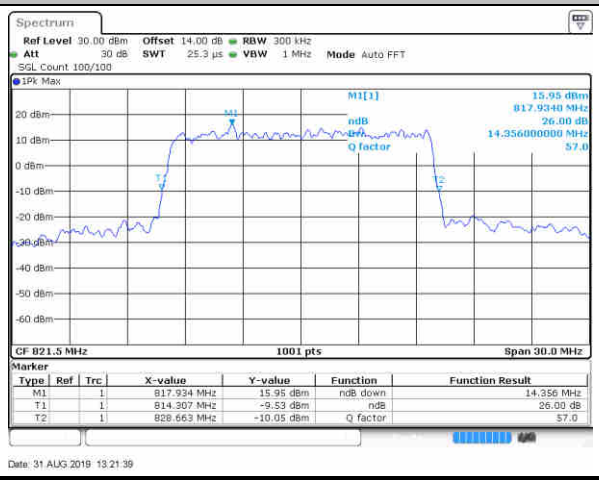
Middle Channel / 10MHz / 16QAM



Lowest Channel / 15MHz / QPSK



Lowest Channel / 15MHz / 16QAM

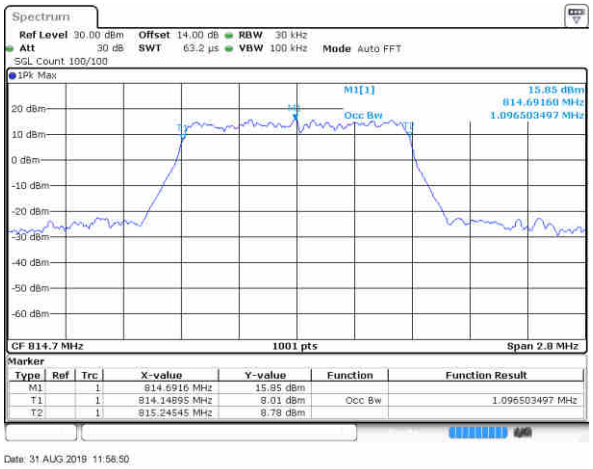


Occupied Bandwidth

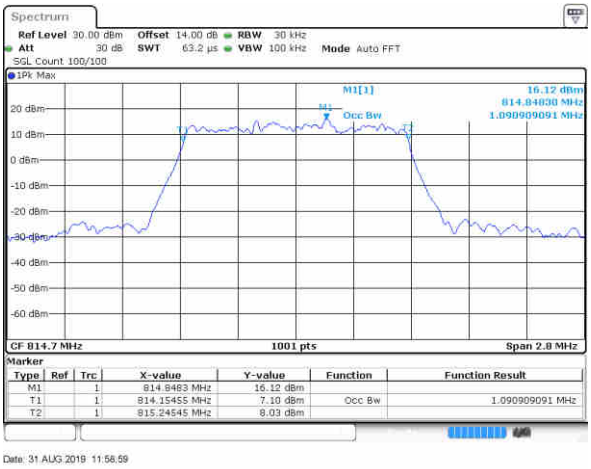
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.09	2.71	2.73	4.50	4.49	-	-	13.40	13.40	-	-
Middle CH	1.10	1.09	2.73	2.72	4.51	4.50	9.01	8.99	-	-	-	-
Highest CH	1.09	1.09	2.73	2.72	4.50	4.49	-	-	-	-	-	-

LTE Band 26

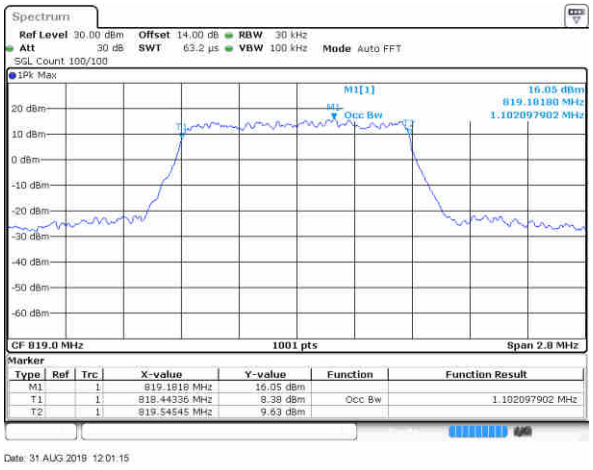
Lowest Channel / 1.4MHz / QPSK



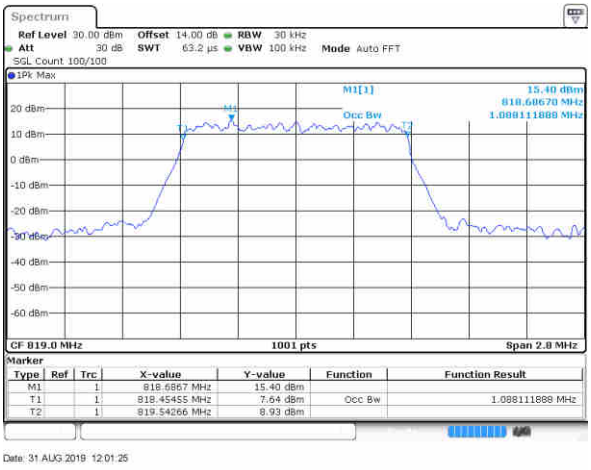
Lowest Channel / 1.4MHz / 16QAM



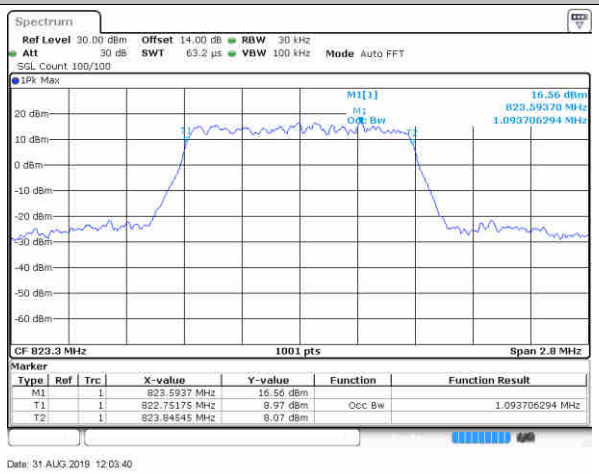
Middle Channel / 1.4MHz / QPSK



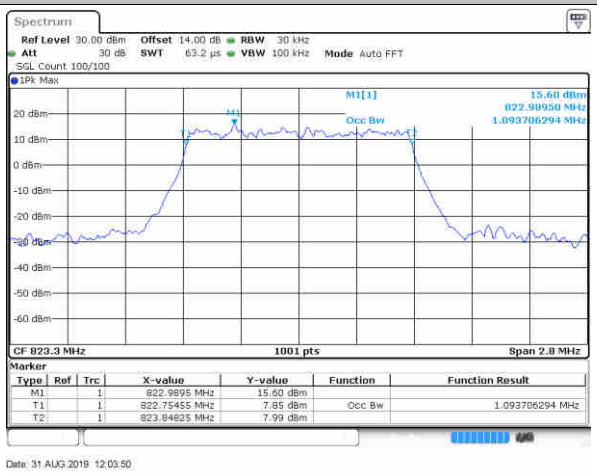
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

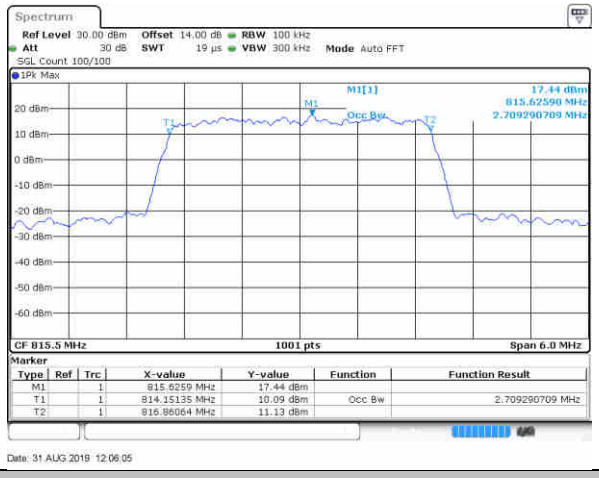


Highest Channel / 1.4MHz / 16QAM

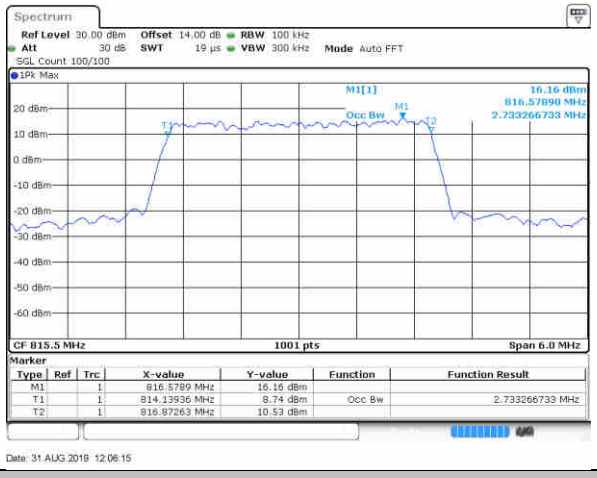


LTE Band 26

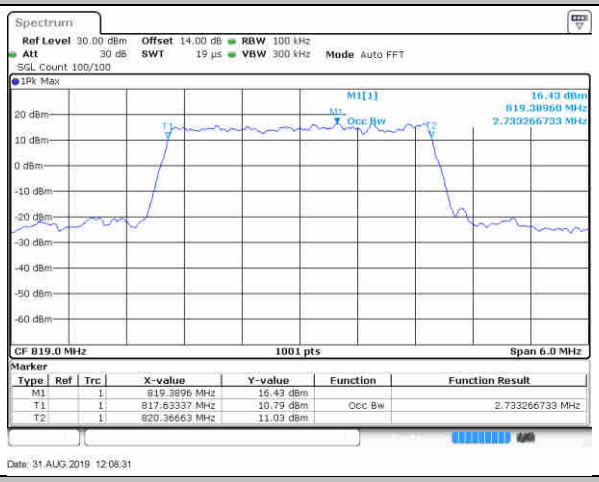
Lowest Channel / 3MHz / QPSK



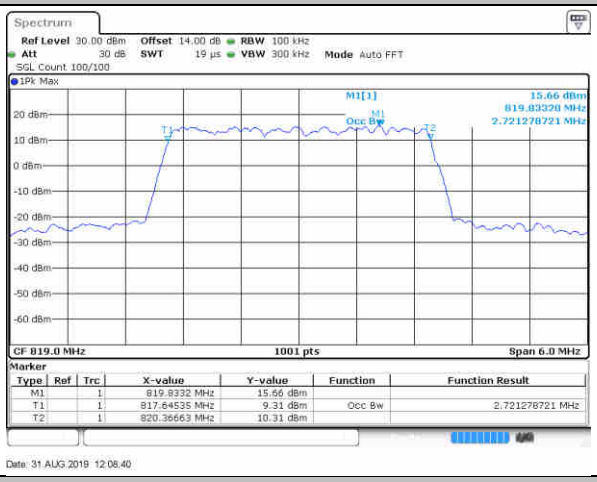
Lowest Channel / 3MHz / 16QAM



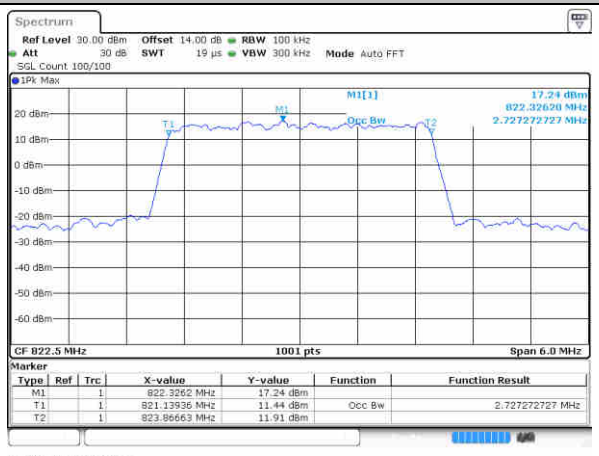
Middle Channel / 3MHz / QPSK



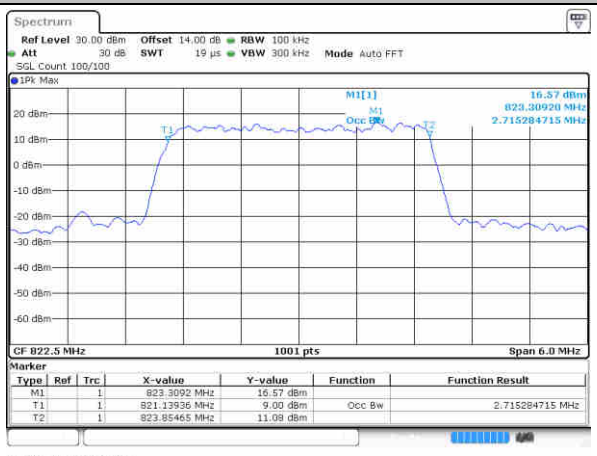
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

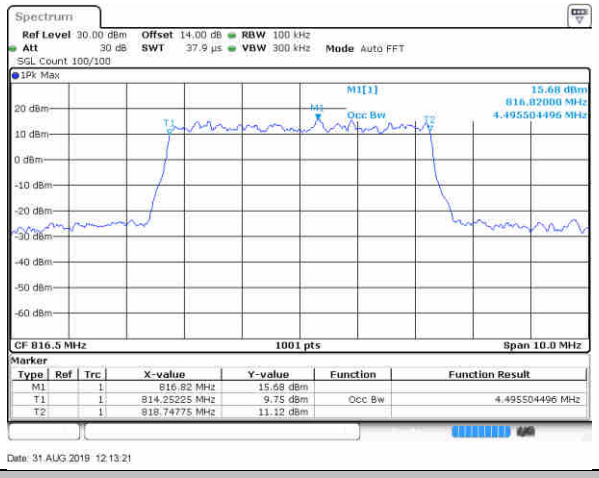


Highest Channel / 3MHz / 16QAM

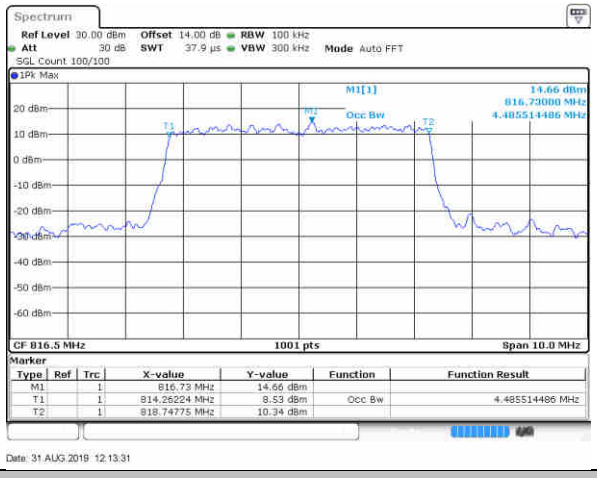


LTE Band 26

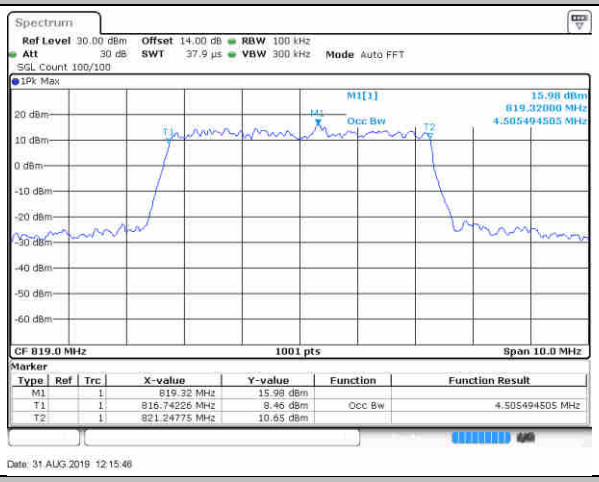
Lowest Channel / 5MHz / QPSK



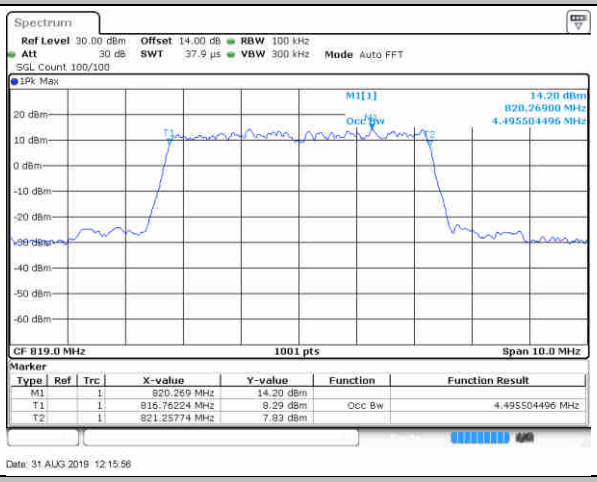
Lowest Channel / 5MHz / 16QAM



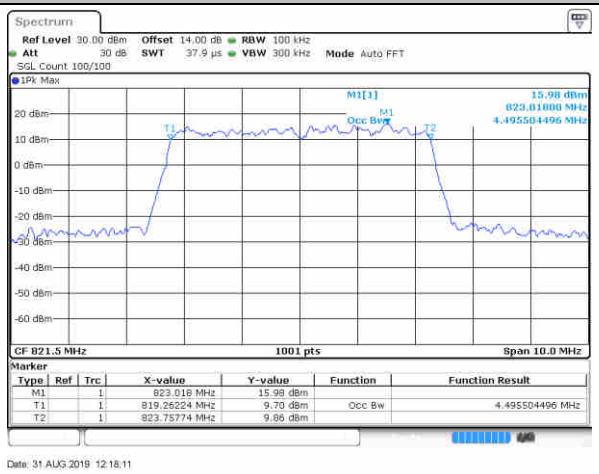
Middle Channel / 5MHz / QPSK



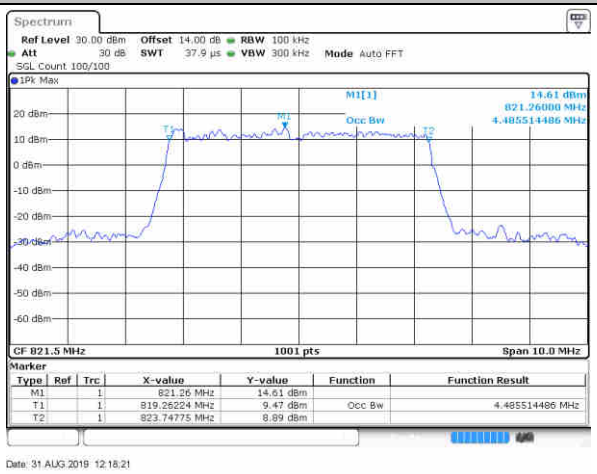
Middle Channel / 5MHz / 16QAM

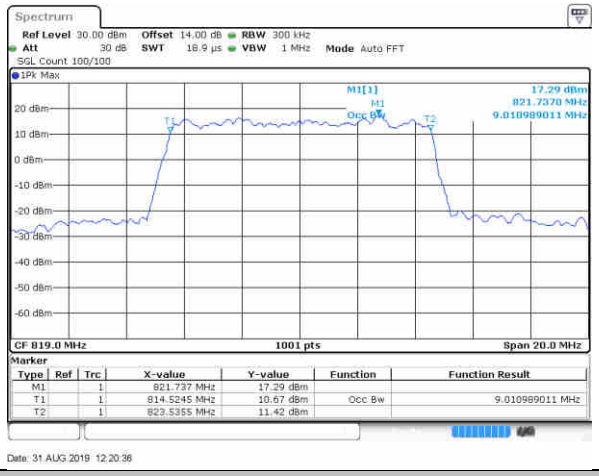
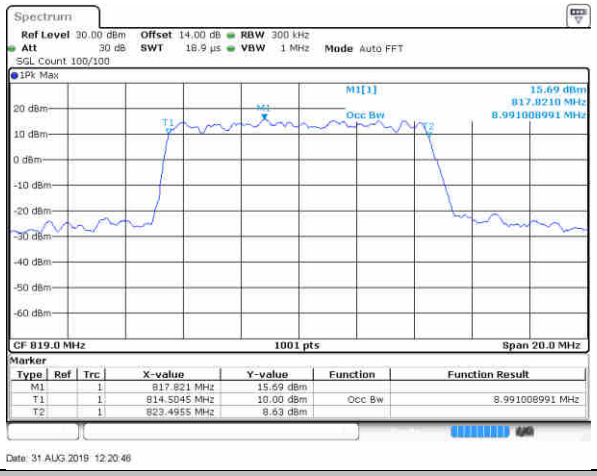
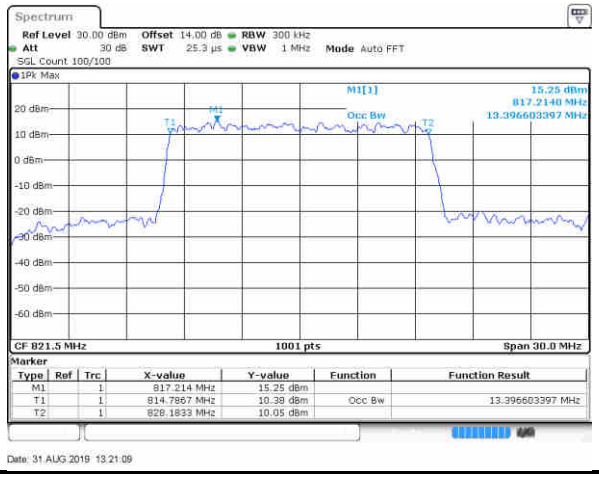
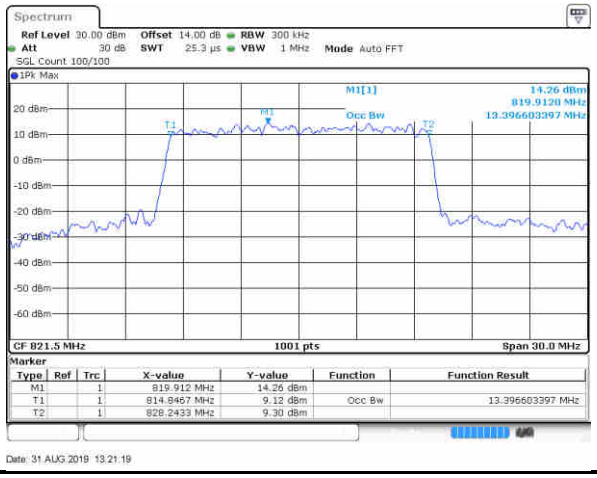


Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM

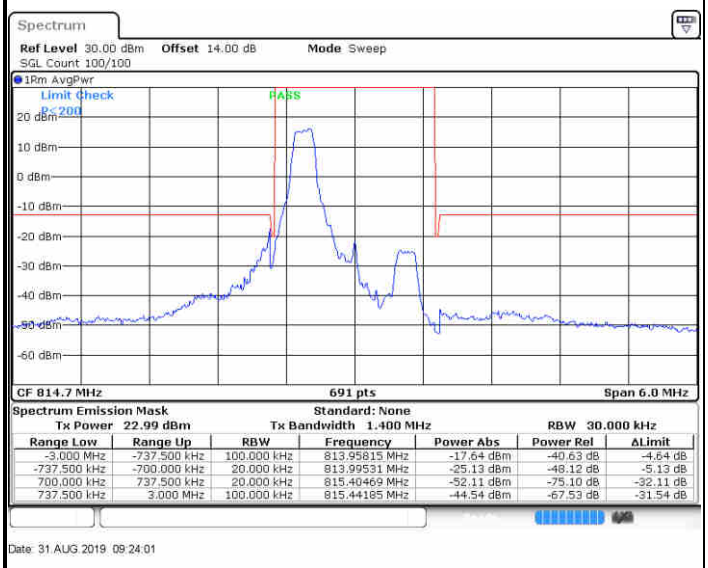


LTE Band 26	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	
LTE Band 26	
Lowest Channel / 15MHz / QPSK	**Lowest Channel / 15MHz / 16QAM**
	

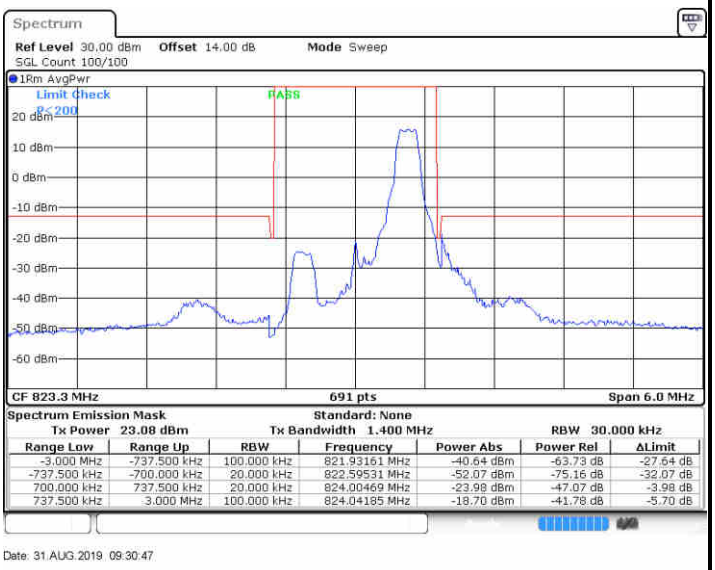
Conducted Band Edge

LTE Band 26 / 1.4MHz / QPSK

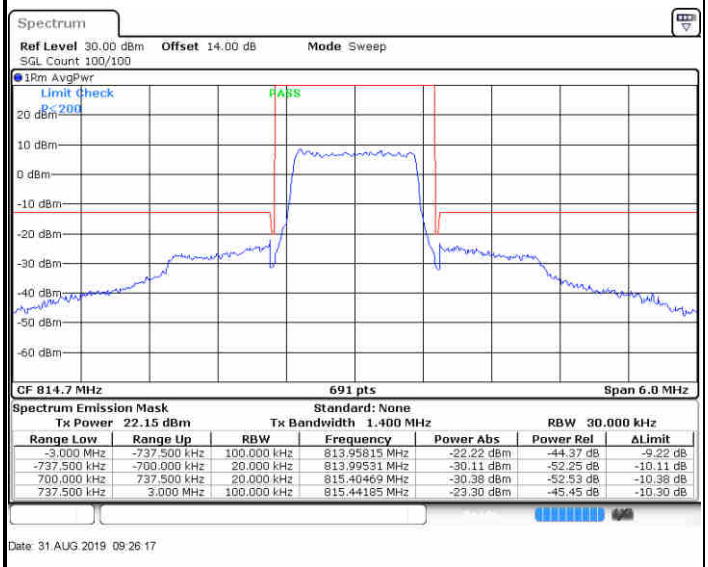
Lowest Band Edge / 1RB



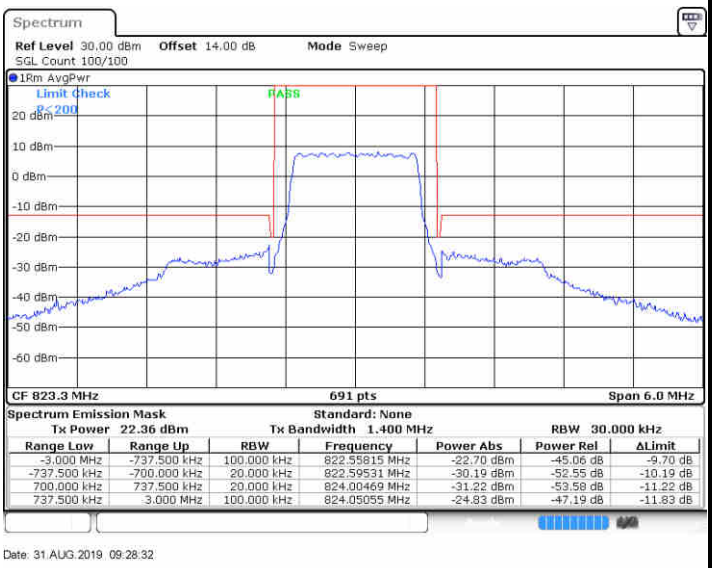
Highest Band Edge / 1RB



Lowest Band Edge / Full RB

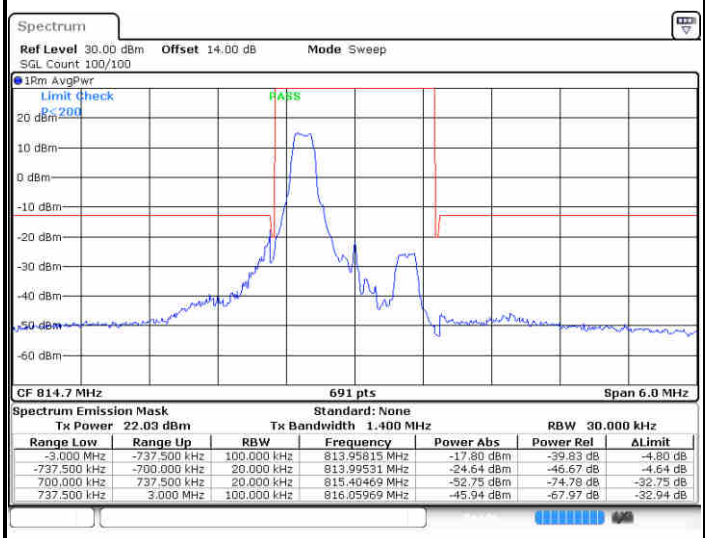


Highest Band Edge / Full RB

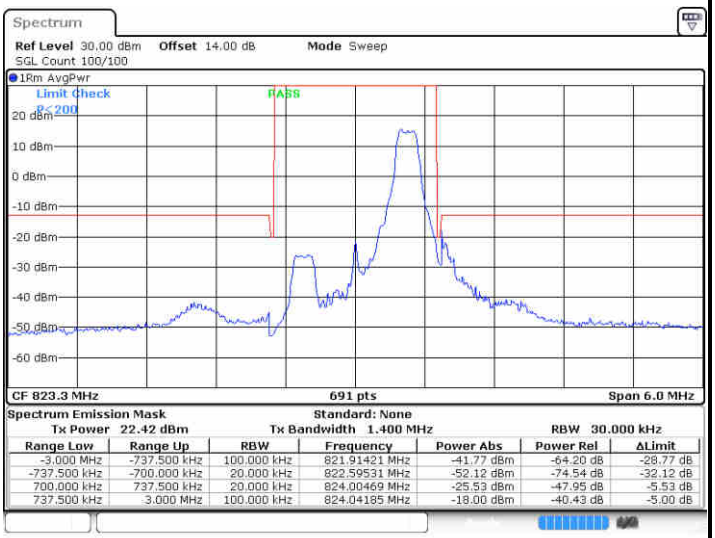


LTE Band 26 / 1.4MHz / 16QAM

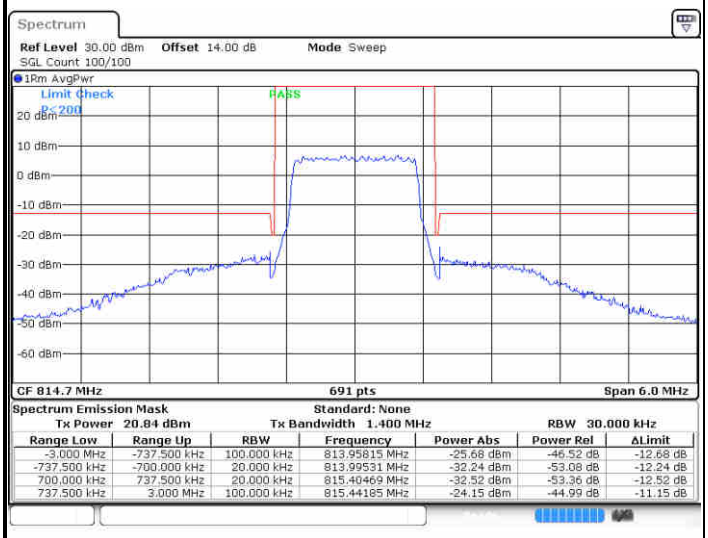
Lowest Band Edge / 1 RB



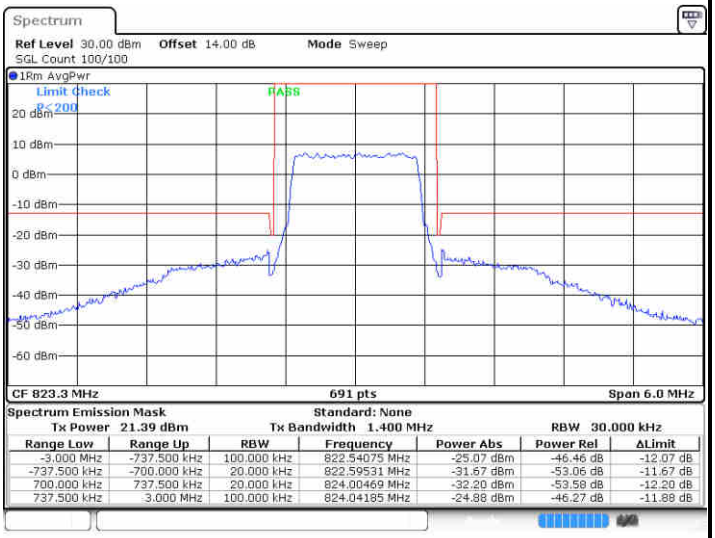
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

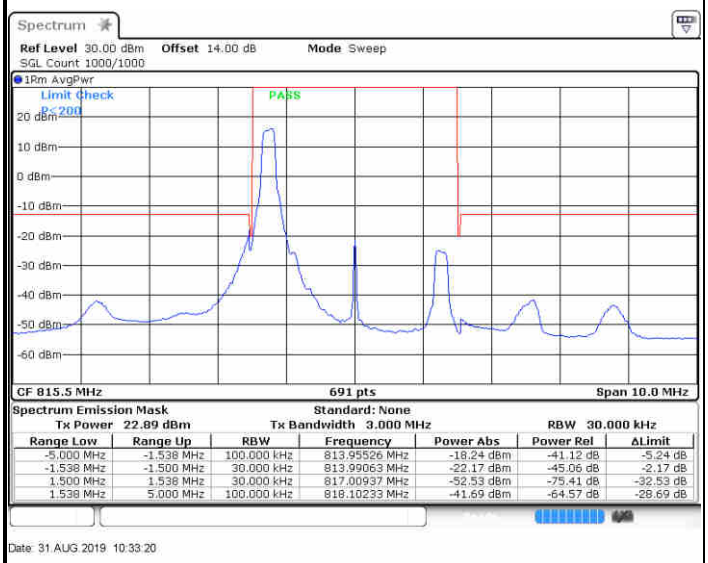


Highest Band Edge / Full RB

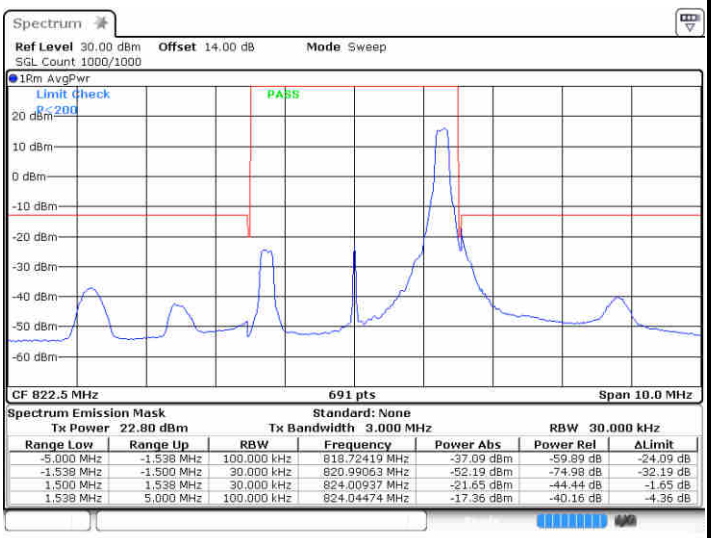


LTE Band 26 / 3MHz / QPSK

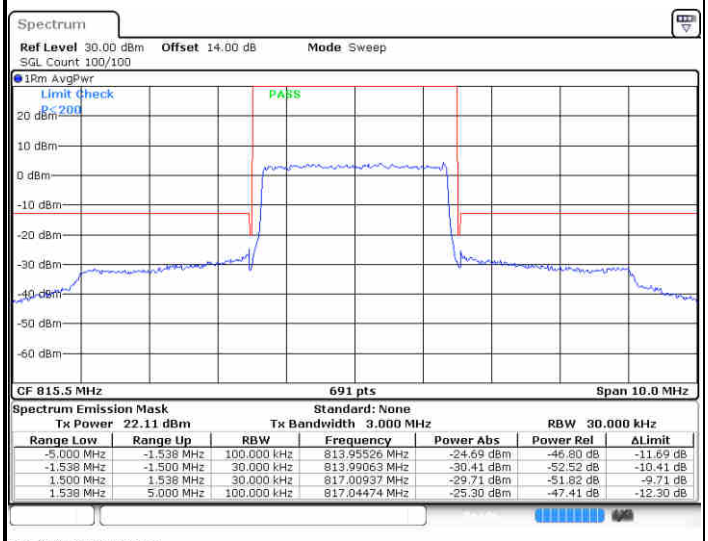
Lowest Band Edge / 1RB



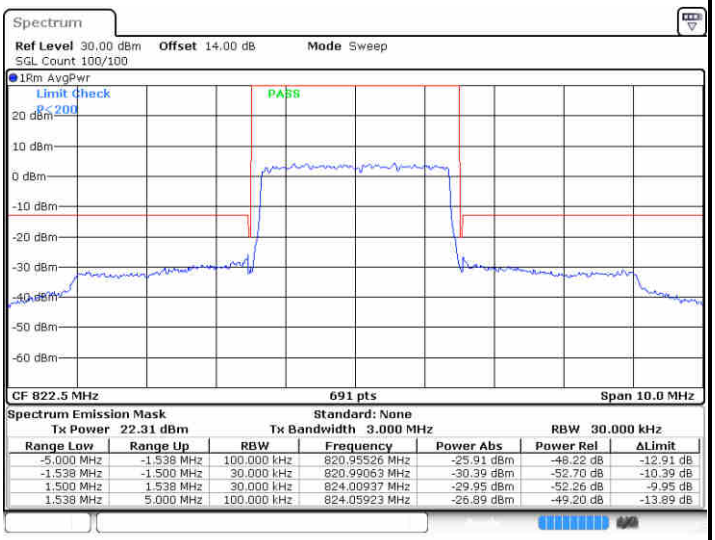
Highest Band Edge / 1 RB

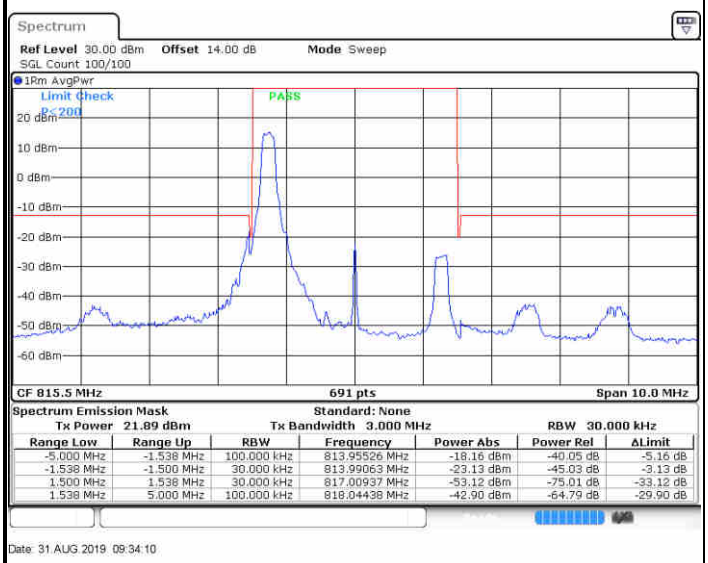
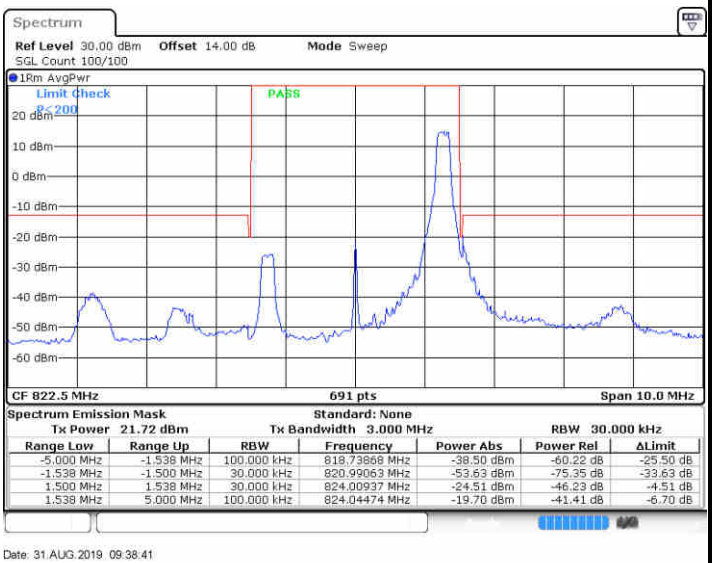
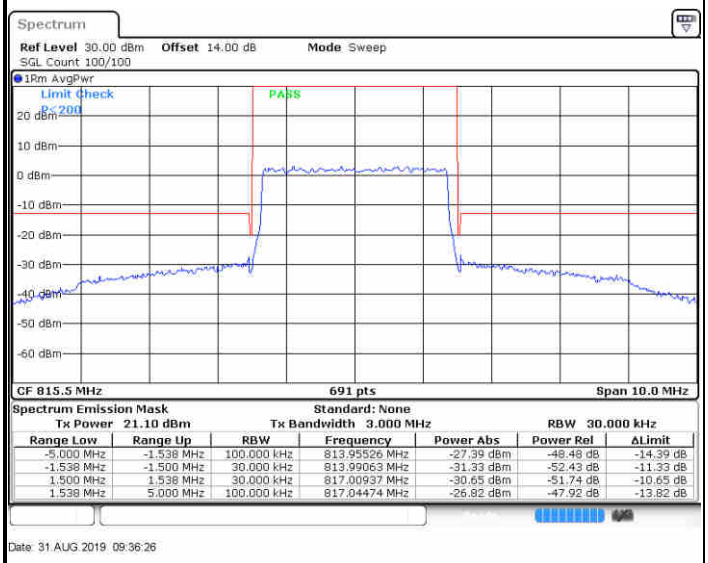
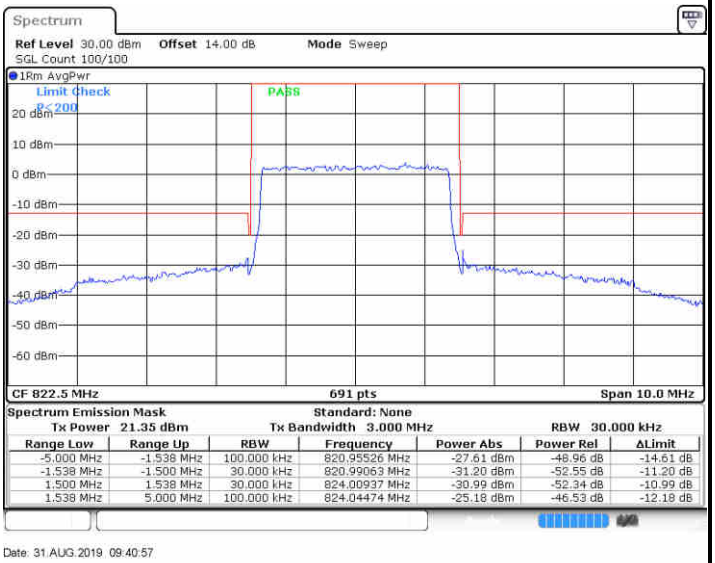


Lowest Band Edge / Full RB



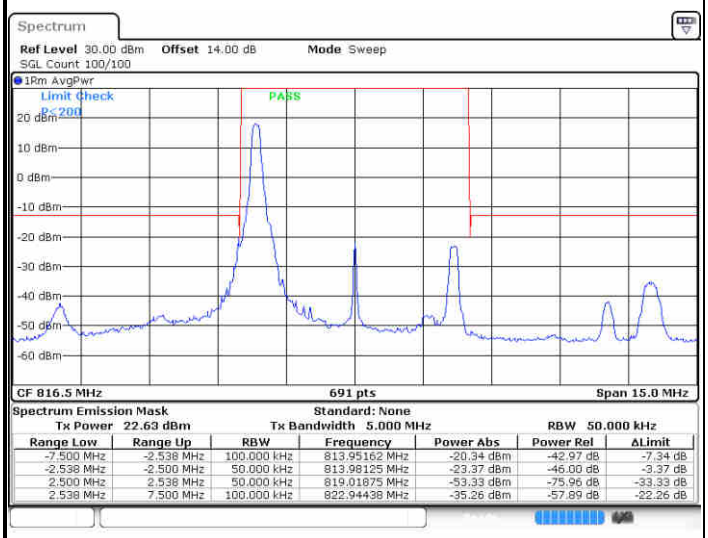
Highest Band Edge / Full RB



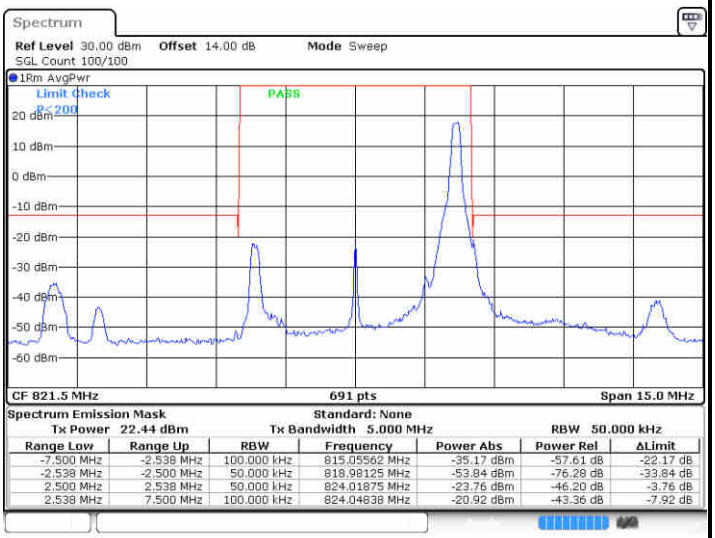
LTE Band 26 / 3MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge /1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 26 / 5MHz / QPSK

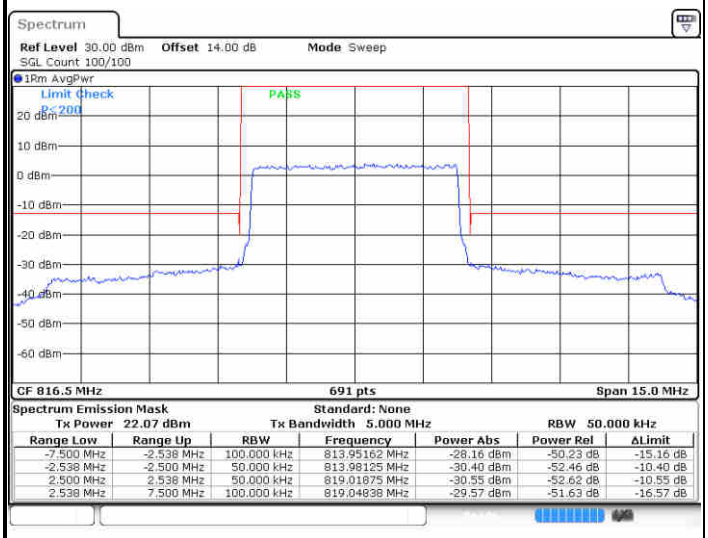
Lowest Band Edge / 1 RB



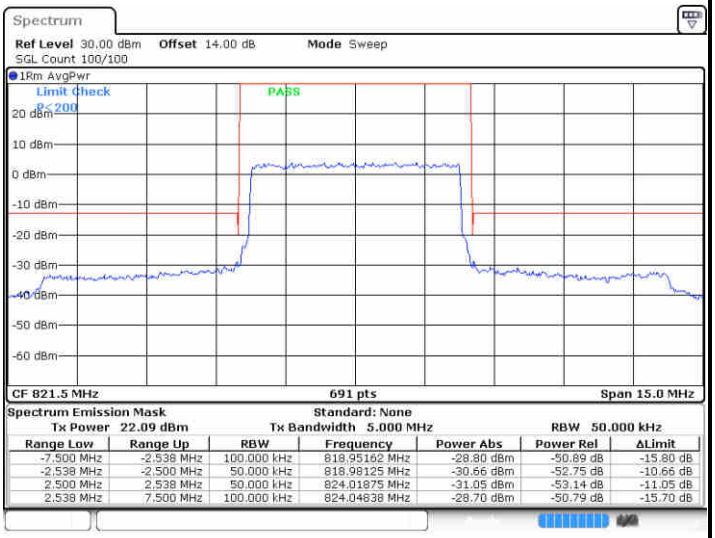
Highest Band Edge / 1 RB

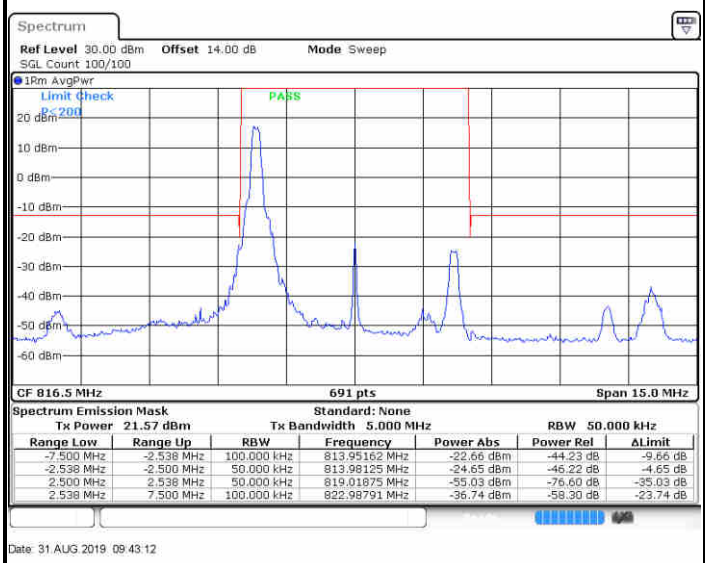
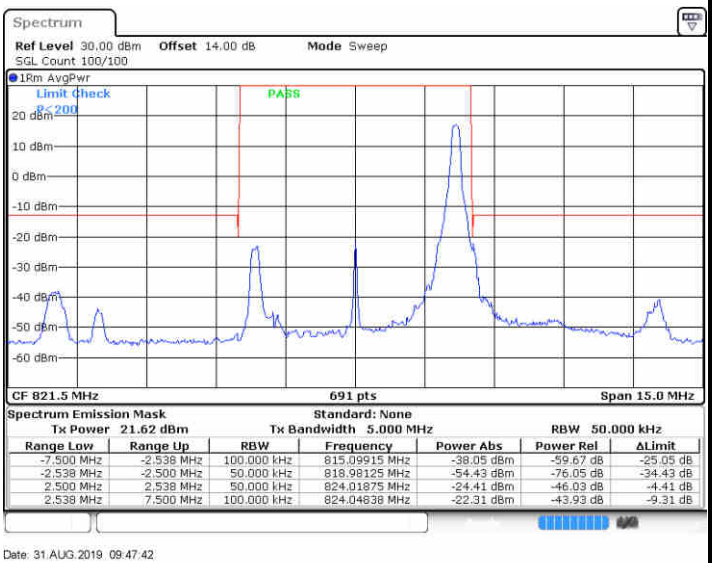
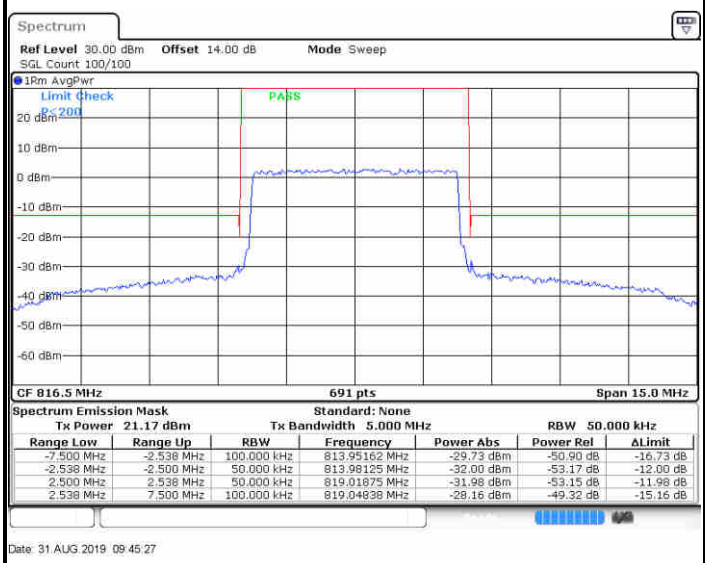
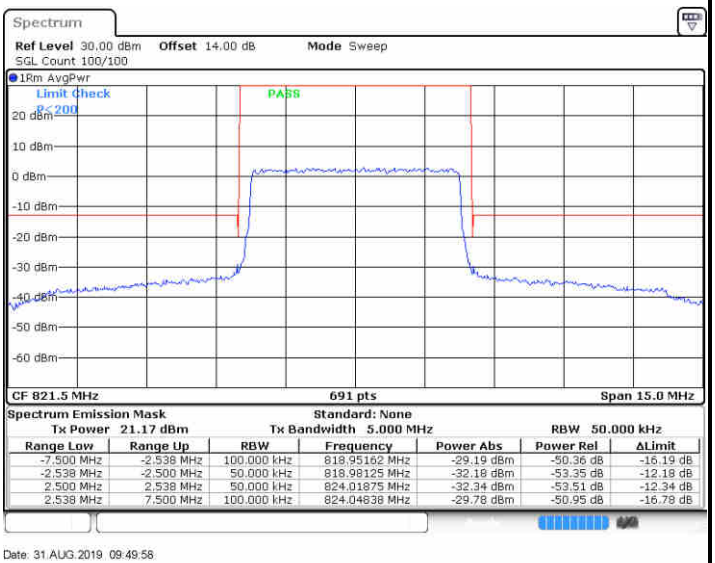


Lowest Band Edge / Full RB

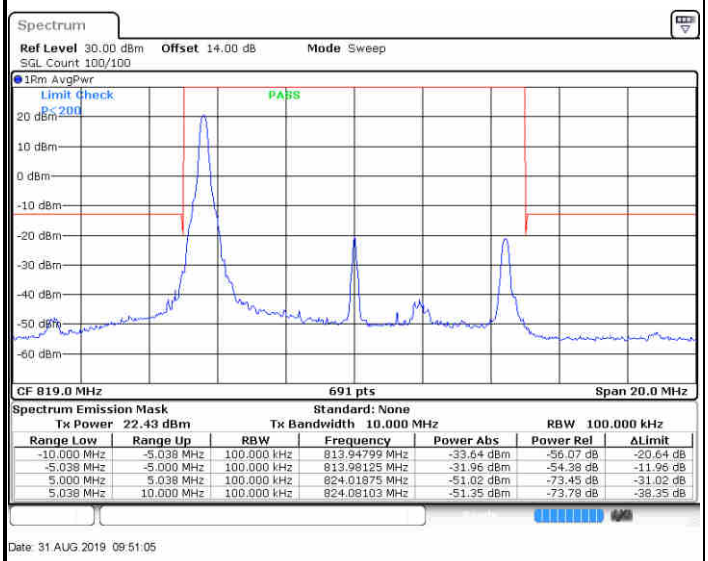


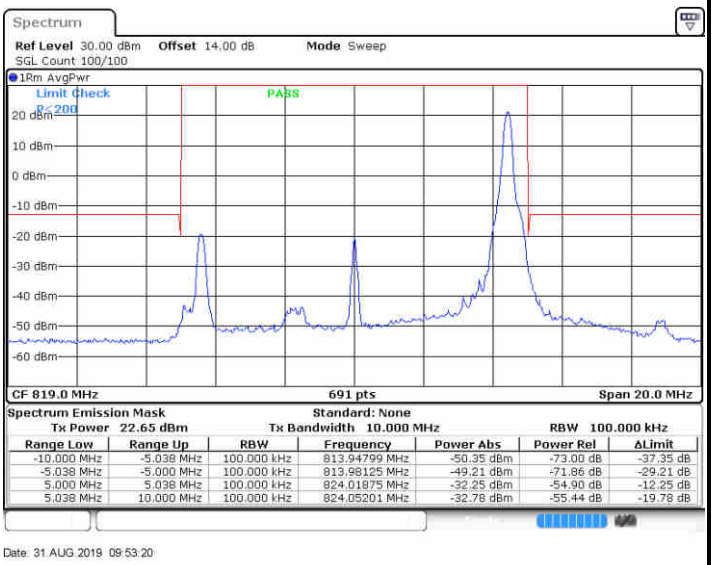
Highest Band Edge / Full RB



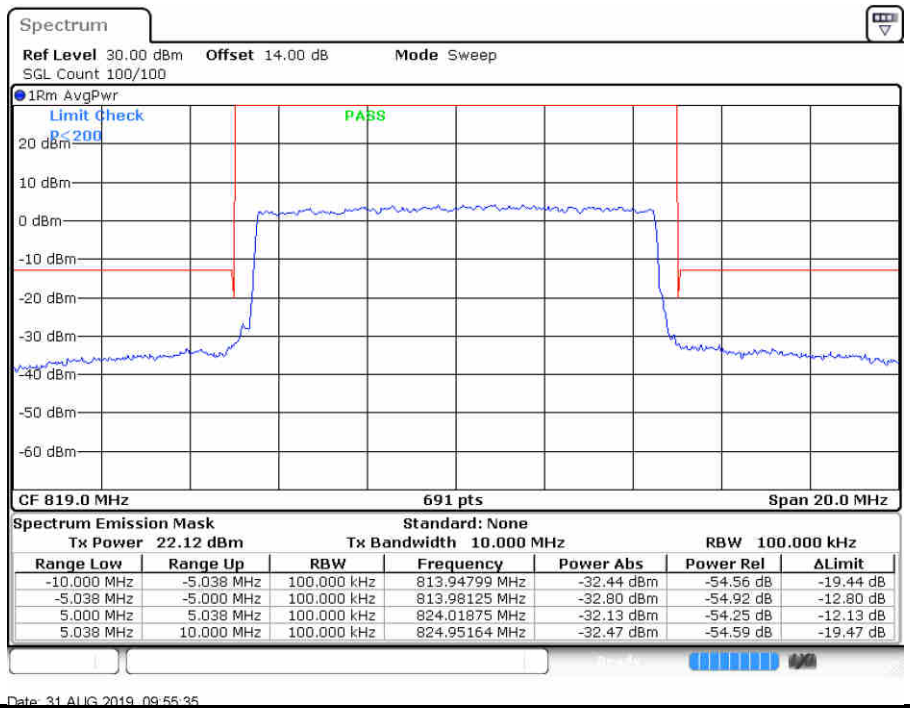
LTE Band 26 / 5MHz / 16QAM	
Lowest Band Edge / 1RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 26 / 10MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**

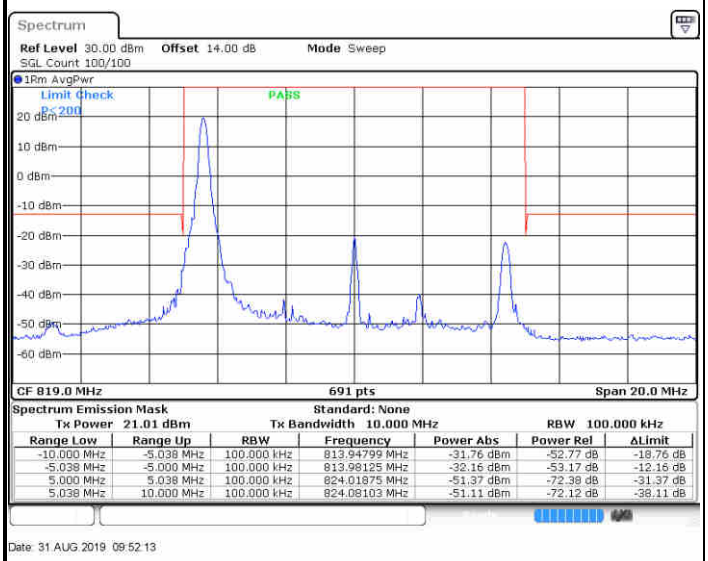


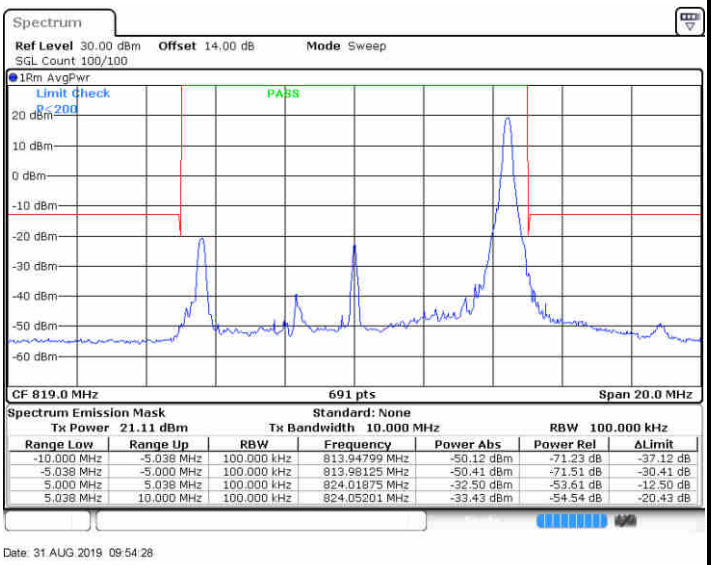


Band Edge / Full RB

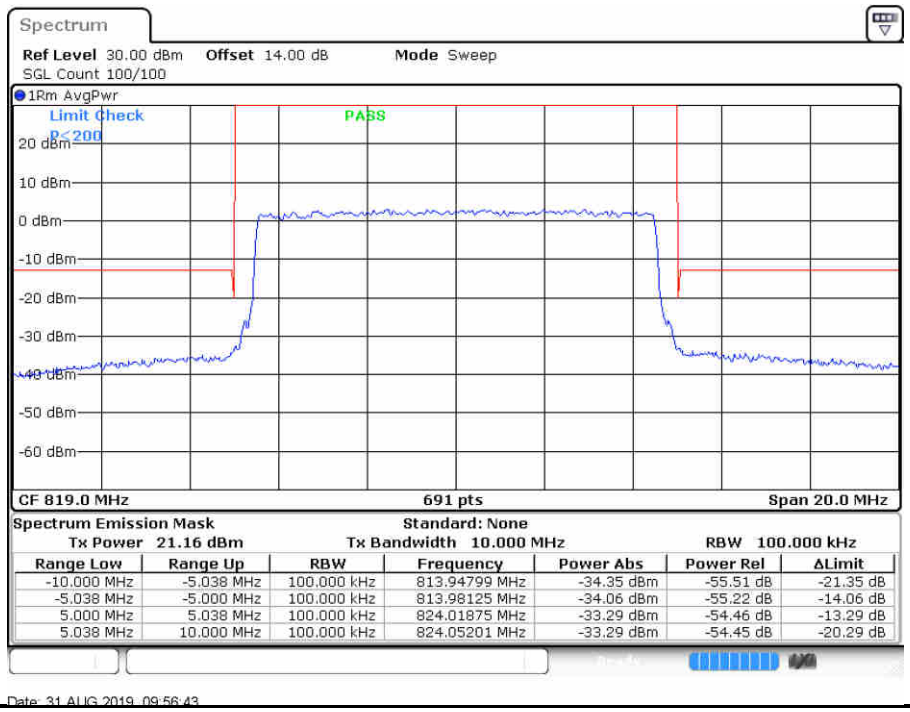


LTE Band 26 / 10MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**



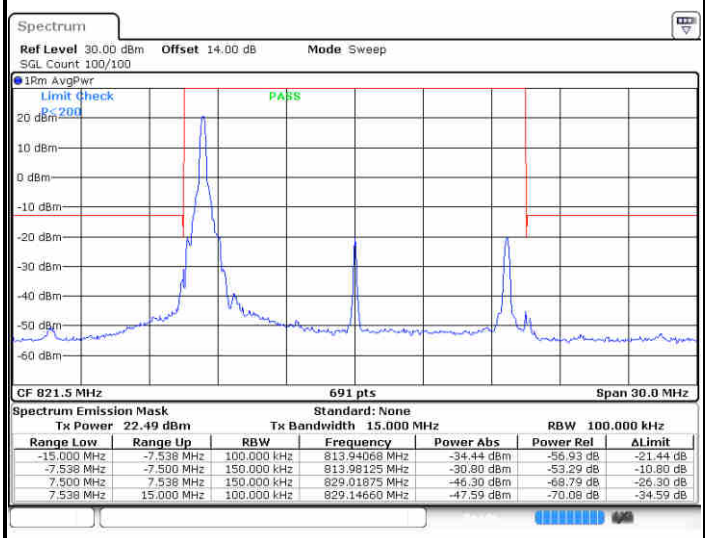


Band Edge / Full RB

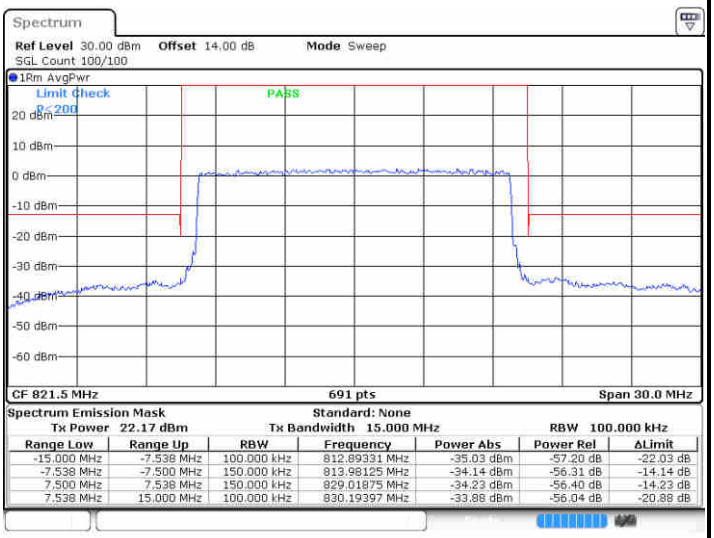


LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB

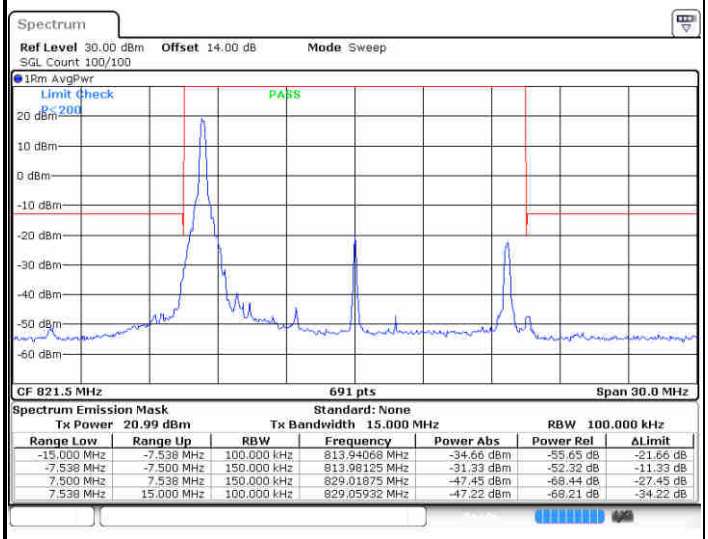


Lowest Band Edge / Full RB

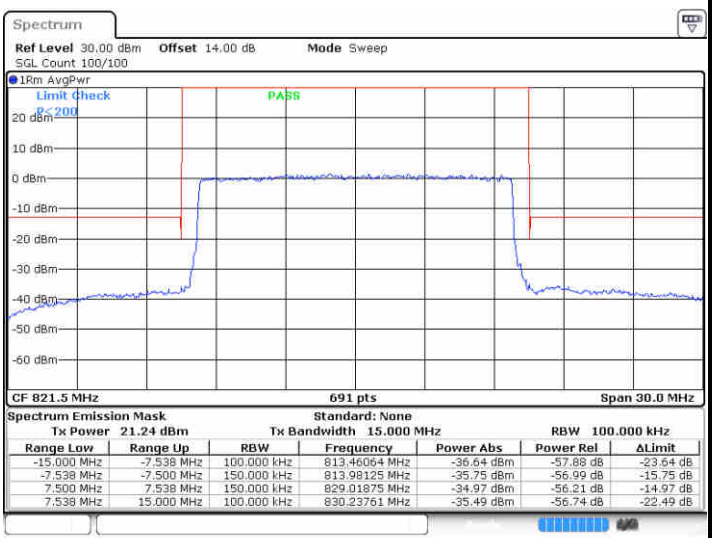


LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB



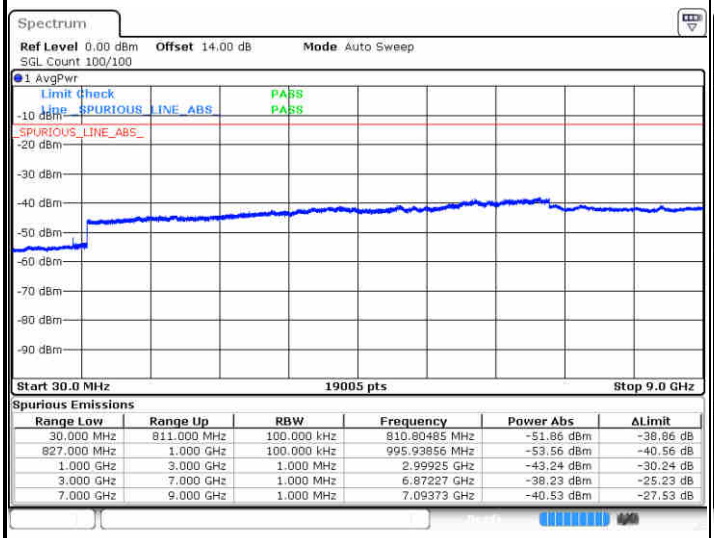
Lowest Band Edge / Full RB



Conducted Spurious Emission

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

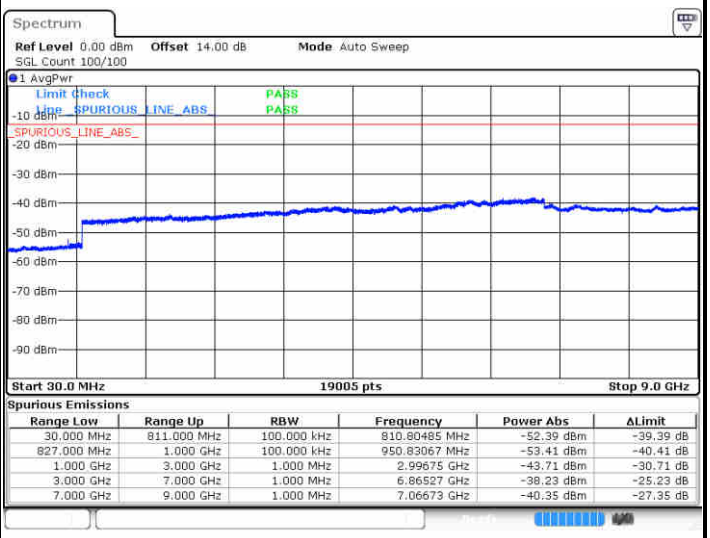


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.80485 MHz	-51.86 dBm	-38.86 dB
827.000 MHz	1.000 GHz	100.000 kHz	995.93856 MHz	-53.56 dBm	-40.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99925 GHz	-43.24 dBm	-30.24 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87227 GHz	-38.23 dBm	-25.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.09373 GHz	-40.53 dBm	-27.53 dB

Date: 31.AUG.2019 12:00:12

Lowest Channel / 16QAM

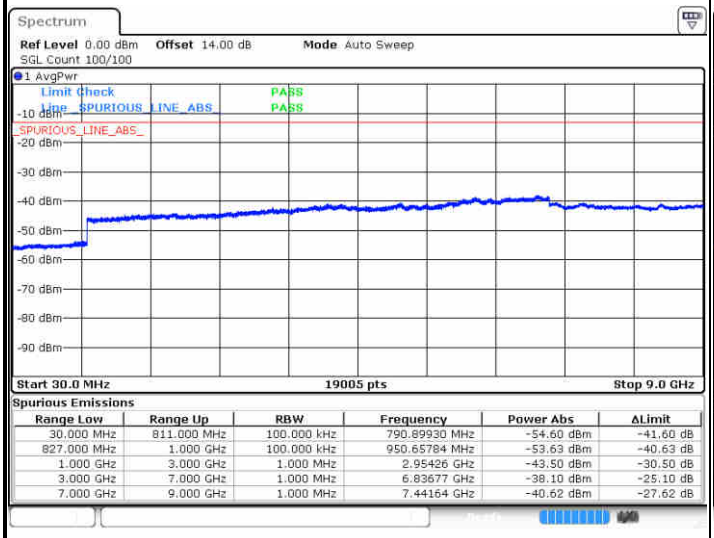


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.80485 MHz	-52.39 dBm	-39.39 dB
827.000 MHz	1.000 GHz	100.000 kHz	950.83067 MHz	-53.41 dBm	-40.41 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99675 GHz	-43.71 dBm	-30.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86527 GHz	-38.23 dBm	-25.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.06673 GHz	-40.35 dBm	-27.35 dB

Date: 31.AUG.2019 12:01:05

Middle Channel / QPSK

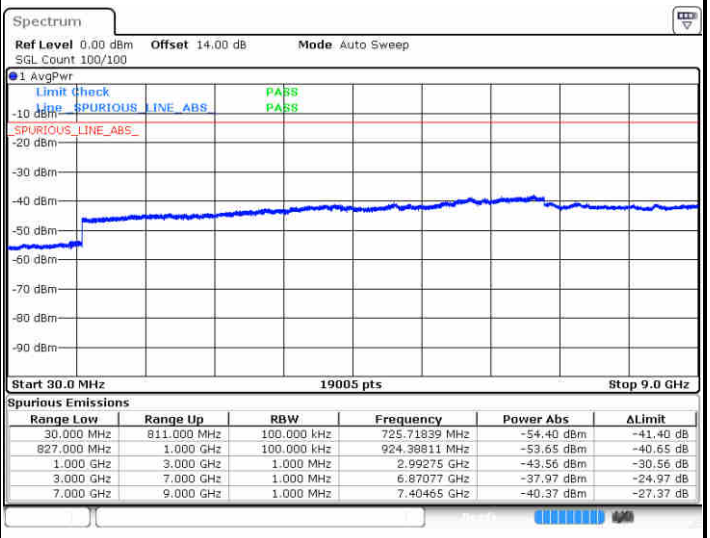


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	790.89930 MHz	-54.60 dBm	-41.60 dB
827.000 MHz	1.000 GHz	100.000 kHz	950.65784 MHz	-53.63 dBm	-40.63 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95426 GHz	-43.50 dBm	-30.50 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83677 GHz	-38.10 dBm	-25.10 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.44164 GHz	-40.62 dBm	-27.62 dB

Date: 31.AUG.2019 12:02:38

Middle Channel / 16QAM



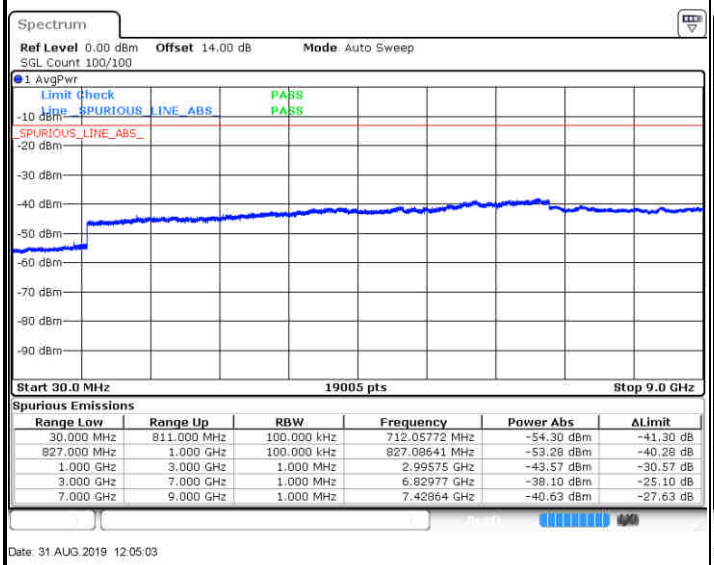
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	725.71839 MHz	-54.40 dBm	-41.40 dB
827.000 MHz	1.000 GHz	100.000 kHz	924.38811 MHz	-53.65 dBm	-40.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99275 GHz	-43.56 dBm	-30.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87077 GHz	-37.97 dBm	-24.97 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.40465 GHz	-40.37 dBm	-27.37 dB

Date: 31.AUG.2019 12:03:31

LTE Band 26 / 1.4MHz

Highest Channel / QPSK

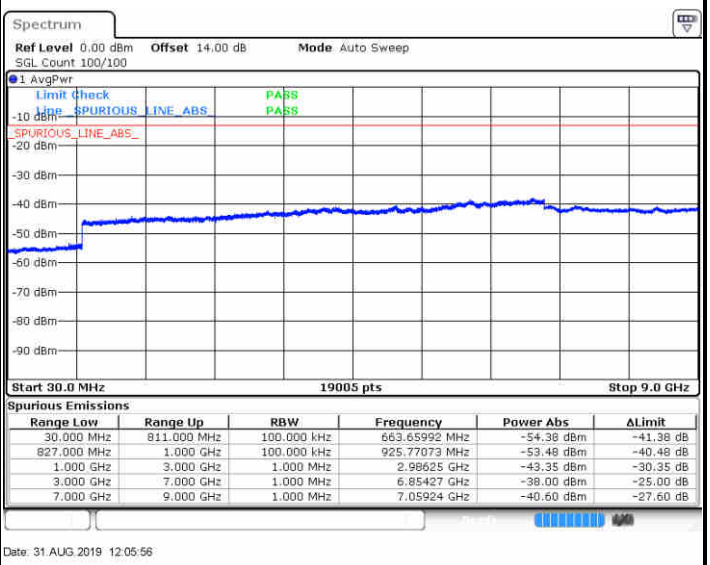


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	712.05772 MHz	-54.30 dBm	-41.30 dB
827.000 MHz	1.000 GHz	100.000 kHz	827.08641 MHz	-53.28 dBm	-40.28 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99575 GHz	-43.57 dBm	-30.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.82977 GHz	-38.10 dBm	-25.10 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.42864 GHz	-40.63 dBm	-27.63 dB

Date: 31.AUG.2019 12:05:03

Highest Channel / 16QAM



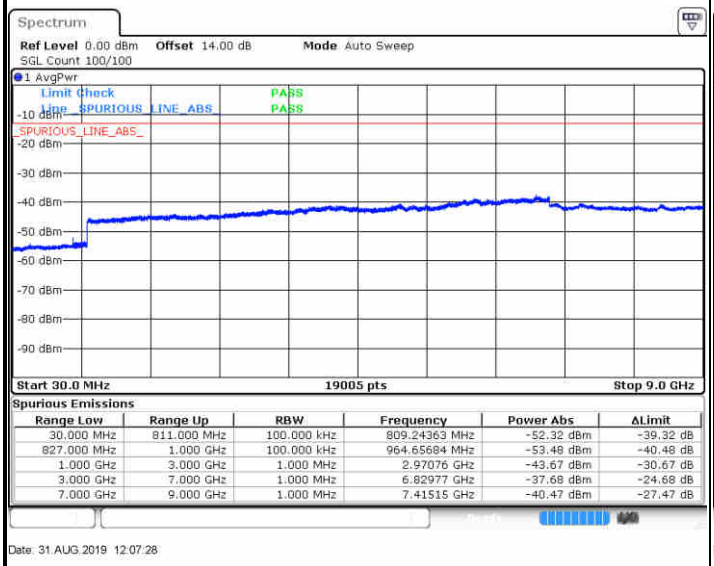
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	663.65992 MHz	-54.38 dBm	-41.38 dB
827.000 MHz	1.000 GHz	100.000 kHz	925.77073 MHz	-53.48 dBm	-40.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98625 GHz	-43.35 dBm	-30.35 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85427 GHz	-38.00 dBm	-25.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05924 GHz	-40.60 dBm	-27.60 dB

Date: 31.AUG.2019 12:05:56

LTE Band 26 / 3MHz

Lowest Channel / QPSK

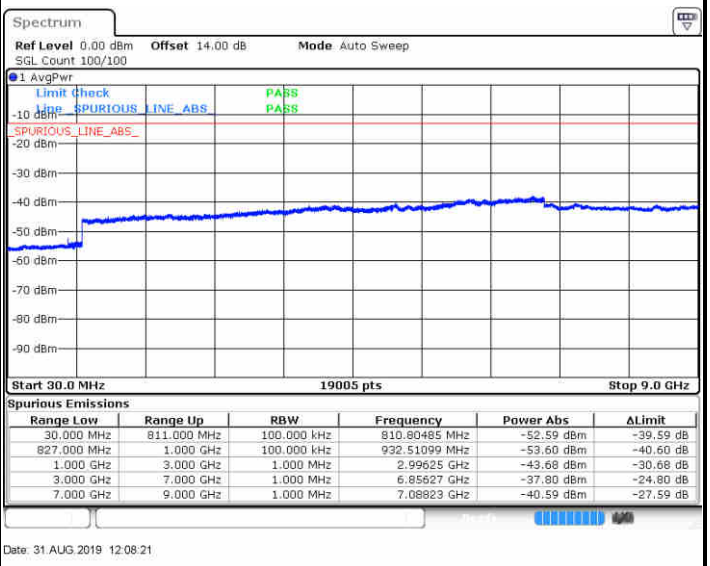


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	809.24363 MHz	-52.32 dBm	-39.32 dB
827.000 MHz	1.000 GHz	100.000 kHz	964.65684 MHz	-53.48 dBm	-40.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97076 GHz	-43.67 dBm	-30.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.82977 GHz	-37.68 dBm	-24.68 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.41515 GHz	-40.47 dBm	-27.47 dB

Date: 31.AUG.2019 12:07:28

Lowest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.80485 MHz	-52.59 dBm	-39.59 dB
827.000 MHz	1.000 GHz	100.000 kHz	932.51099 MHz	-53.60 dBm	-40.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99625 GHz	-43.68 dBm	-30.68 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85627 GHz	-37.80 dBm	-24.80 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.08823 GHz	-40.59 dBm	-27.59 dB

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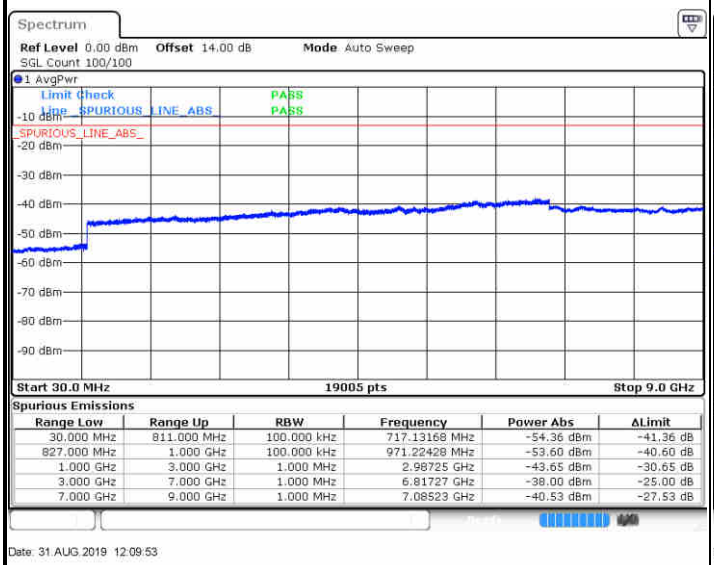
LTE Band 26 / 3MHz

Middle Channel / QPSK

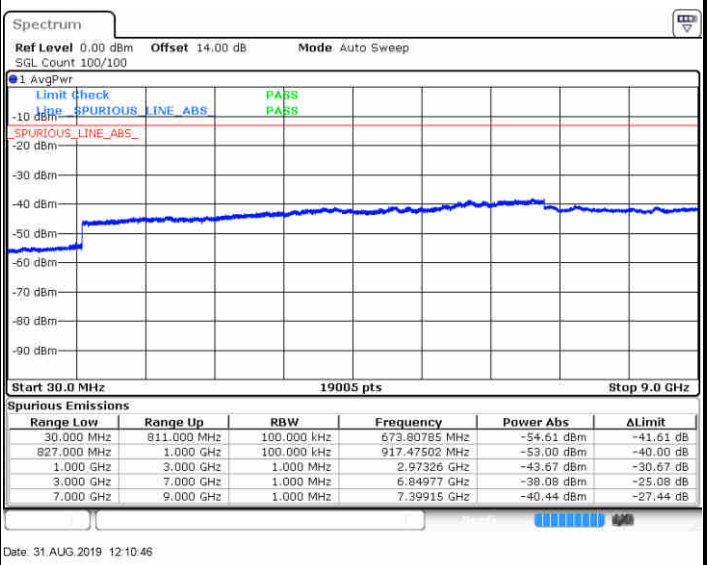


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	717.13168 MHz	-54.36 dBm	-41.36 dB
827.000 MHz	1.000 GHz	100.000 kHz	971.22428 MHz	-53.60 dBm	-40.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98725 GHz	-43.65 dBm	-30.65 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.81727 GHz	-38.00 dBm	-25.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.08523 GHz	-40.53 dBm	-27.53 dB

Date: 31.AUG.2019 12:09:53

Middle Channel / 16QAM

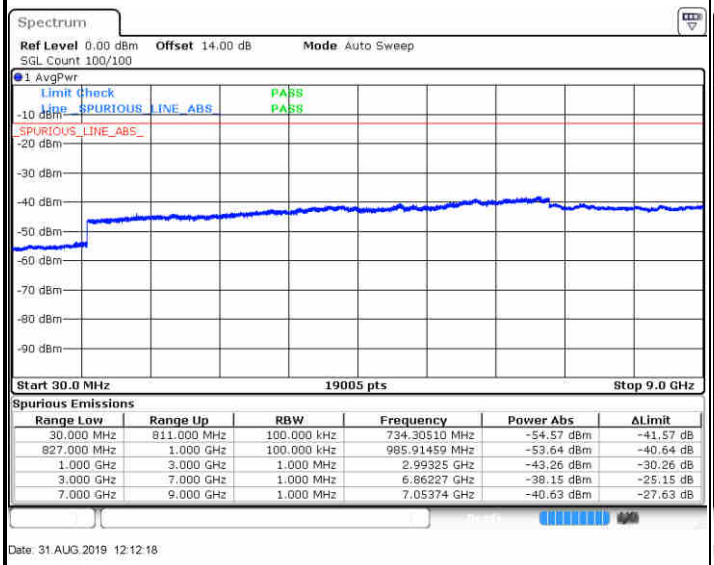


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	673.80785 MHz	-54.61 dBm	-41.61 dB
827.000 MHz	1.000 GHz	100.000 kHz	917.47502 MHz	-53.00 dBm	-40.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97326 GHz	-43.67 dBm	-30.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84977 GHz	-38.08 dBm	-25.08 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.39915 GHz	-40.44 dBm	-27.44 dB

Date: 31.AUG.2019 12:10:46

Highest Channel / QPSK

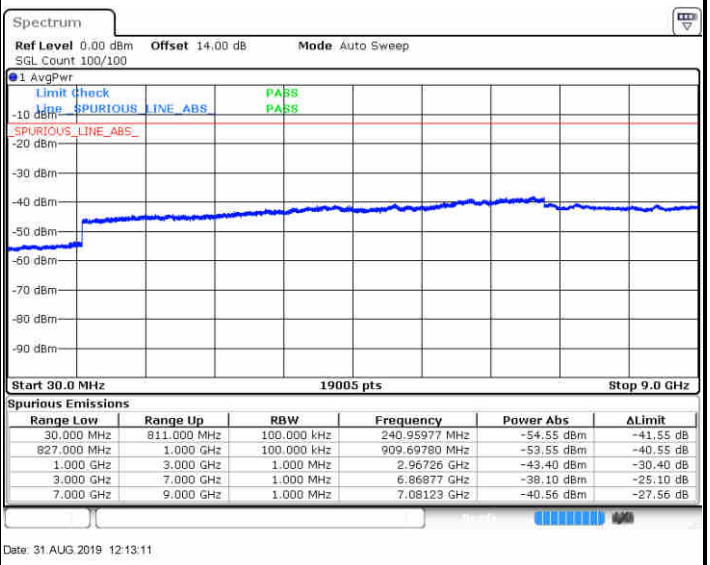


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	734.30510 MHz	-54.57 dBm	-41.57 dB
827.000 MHz	1.000 GHz	100.000 kHz	985.91459 MHz	-53.64 dBm	-40.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99325 GHz	-43.26 dBm	-30.26 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86227 GHz	-38.15 dBm	-25.15 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05374 GHz	-40.63 dBm	-27.63 dB

Date: 31.AUG.2019 12:12:18

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	240.95977 MHz	-54.55 dBm	-41.55 dB
827.000 MHz	1.000 GHz	100.000 kHz	909.69780 MHz	-53.55 dBm	-40.55 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96726 GHz	-43.40 dBm	-30.40 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86877 GHz	-38.10 dBm	-25.10 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.08123 GHz	-40.56 dBm	-27.56 dB

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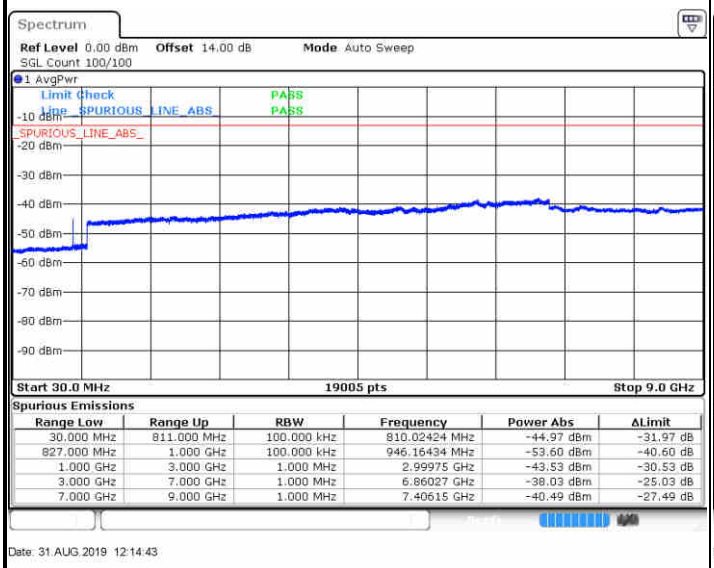
LTE Band 26 / 5MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.02424 MHz	-44.97 dBm	-31.97 dB
827.000 MHz	1.000 GHz	100.000 kHz	946.16434 MHz	-53.60 dBm	-40.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99975 GHz	-43.53 dBm	-30.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86027 GHz	-38.03 dBm	-25.03 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.40615 GHz	-40.49 dBm	-27.49 dB

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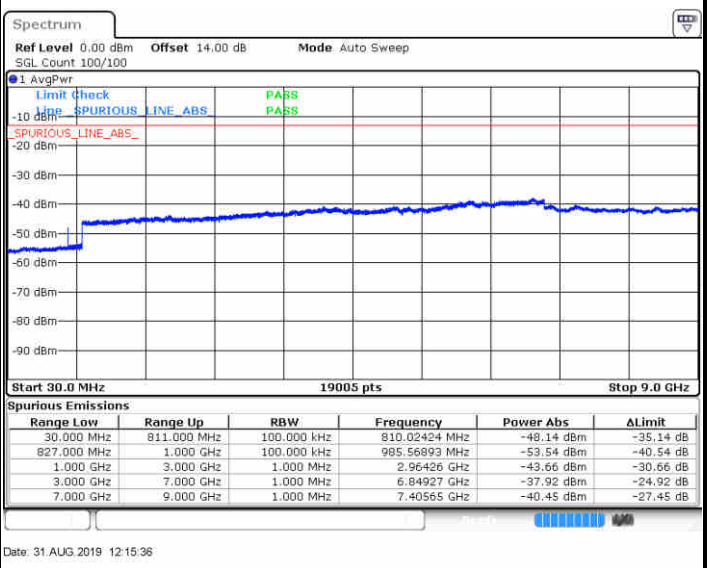
Lowest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.02424 MHz	-48.14 dBm	-35.14 dB
827.000 MHz	1.000 GHz	100.000 kHz	985.56893 MHz	-53.54 dBm	-40.54 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96426 GHz	-43.66 dBm	-30.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84927 GHz	-37.92 dBm	-24.92 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.40565 GHz	-40.45 dBm	-27.45 dB

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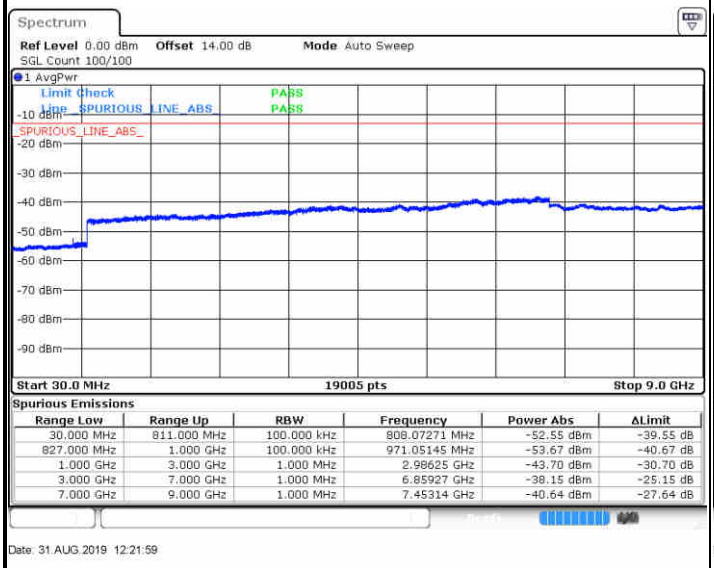
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	808.07271 MHz	-52.55 dBm	-39.55 dB
827.000 MHz	1.000 GHz	100.000 kHz	971.05145 MHz	-53.67 dBm	-40.67 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98625 GHz	-43.70 dBm	-30.70 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85927 GHz	-38.15 dBm	-25.15 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.45314 GHz	-40.64 dBm	-27.64 dB

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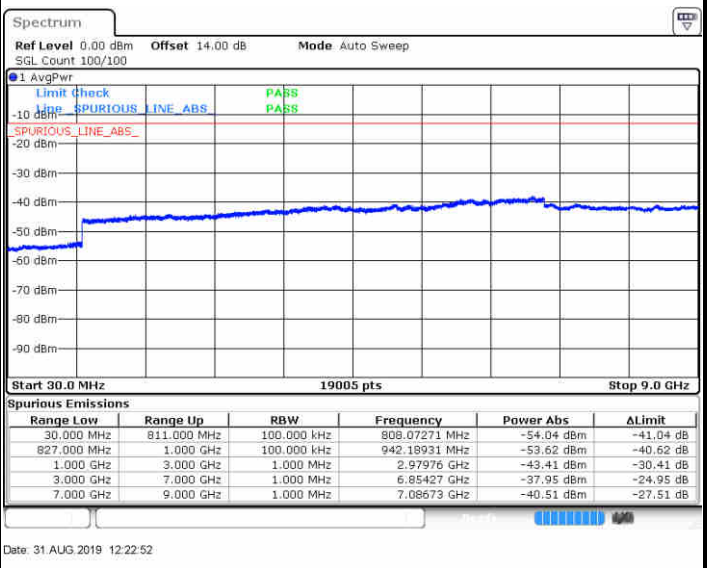
Middle Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	808.07271 MHz	-54.04 dBm	-41.04 dB
827.000 MHz	1.000 GHz	100.000 kHz	942.18931 MHz	-53.62 dBm	-40.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97976 GHz	-43.41 dBm	-30.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85427 GHz	-37.95 dBm	-24.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.08673 GHz	-40.51 dBm	-27.51 dB

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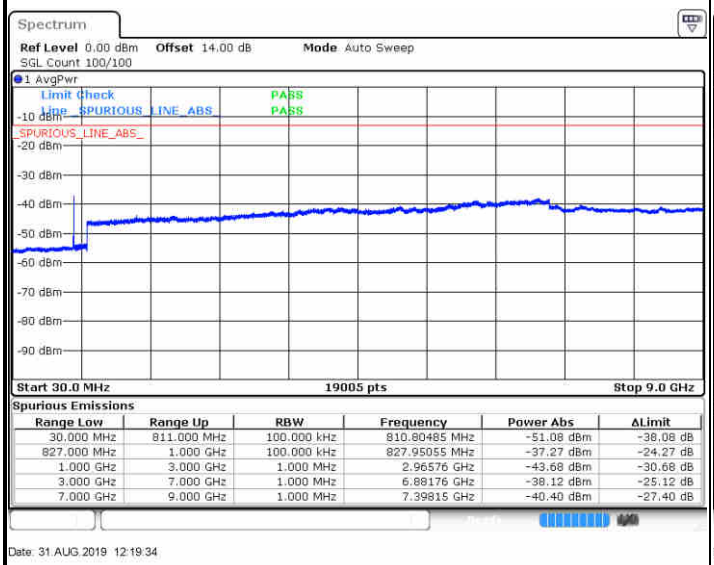
LTE Band 26 / 5MHz

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.80485 MHz	-51.08 dBm	-38.08 dB
827.000 MHz	1.000 GHz	100.000 kHz	827.95055 MHz	-37.27 dBm	-24.27 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96576 GHz	-43.68 dBm	-30.68 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88176 GHz	-38.12 dBm	-25.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.39815 GHz	-40.40 dBm	-27.40 dB

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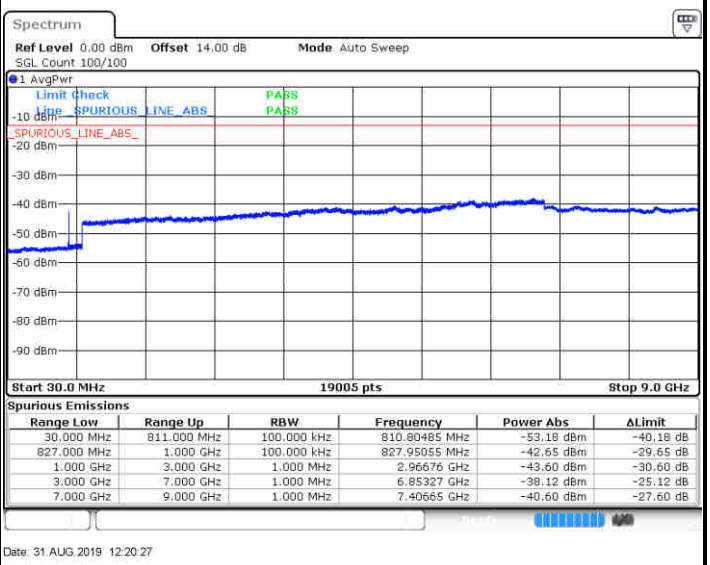
Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.80485 MHz	-53.18 dBm	-40.18 dB
827.000 MHz	1.000 GHz	100.000 kHz	827.95055 MHz	-42.65 dBm	-29.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96676 GHz	-43.60 dBm	-30.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85327 GHz	-38.12 dBm	-25.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.40665 GHz	-40.60 dBm	-27.60 dB

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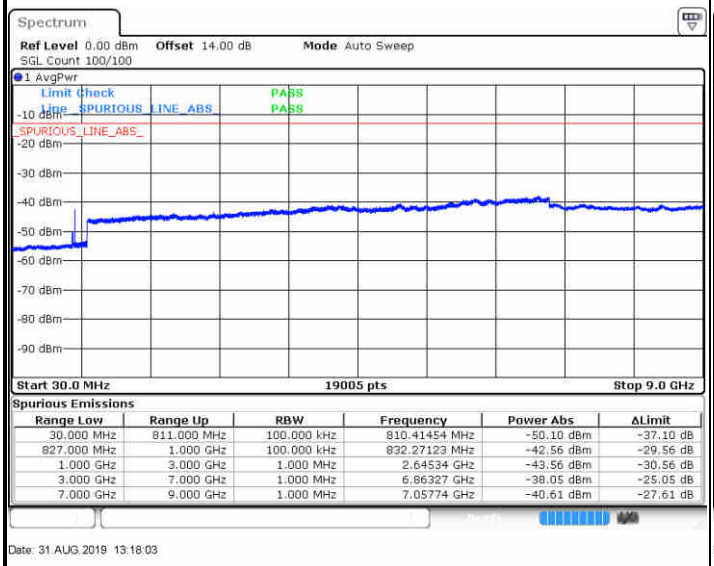
LTE Band 26 / 10MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.41454 MHz	-50.10 dBm	-37.10 dB
827.000 MHz	1.000 GHz	100.000 kHz	832.27123 MHz	-42.56 dBm	-29.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.64534 GHz	-43.56 dBm	-30.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86327 GHz	-38.05 dBm	-25.05 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05774 GHz	-40.61 dBm	-27.61 dB

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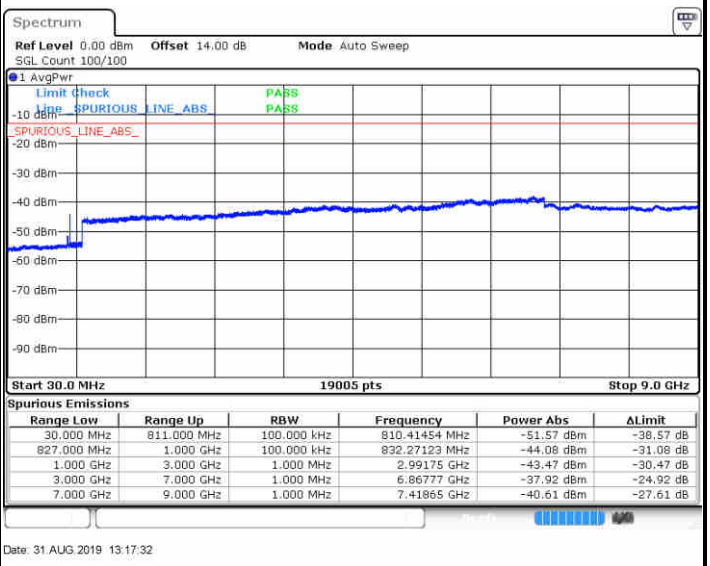
Middle Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	811.000 MHz	100.000 kHz	810.41454 MHz	-51.57 dBm	-38.57 dB
827.000 MHz	1.000 GHz	100.000 kHz	832.27123 MHz	-44.08 dBm	-31.08 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99175 GHz	-43.47 dBm	-30.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86777 GHz	-37.92 dBm	-24.92 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.41865 GHz	-40.61 dBm	-27.61 dB

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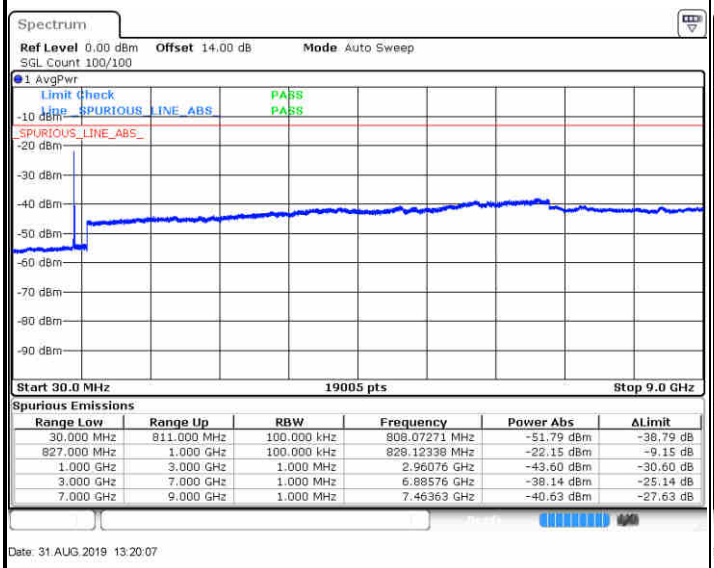
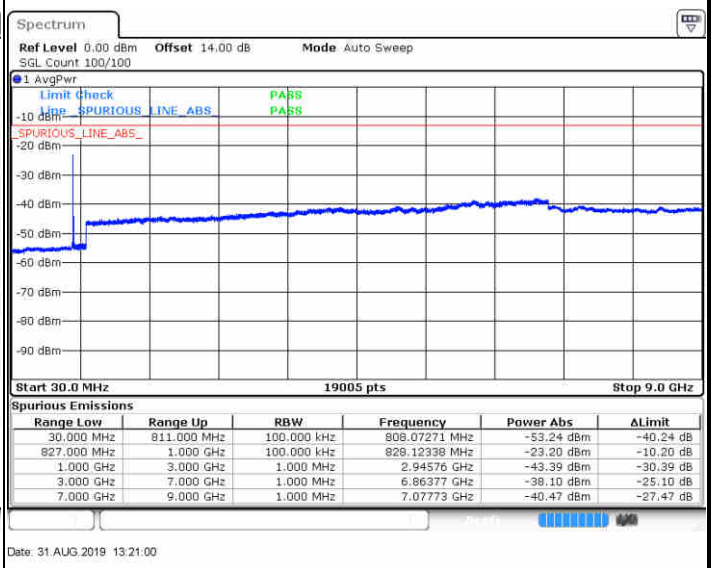
LTE Band 26 / 15MHz	
Lowest Channel / QPSK	**Lowest Channel / 16QAM**





Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note:

1. Normal Voltage =5 V.；Battery End Point (BEP) =4.9 V.；Maximum Voltage =6.2 V.

2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 26 / 1.4MHz / QPSK									
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)
Middle	1636.74	-53.48	-13	-40.48	-62.89	-56.73	4.00	9.40	H
	2455.11	-60.46	-13	-47.46	-73.97	-64.03	4.88	10.60	H
	3273.48	-60.01	-13	-47.01	-75.76	-64.94	5.52	12.60	H
	1636.74	-57.60	-13	-44.60	-66.49	-60.85	4.00	9.40	V
	2455.11	-57.69	-13	-44.69	-70.99	-61.26	4.88	10.60	V
	3273.48	-60.75	-13	-47.75	-76.13	-65.68	5.52	12.60	V

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

LTE Band 26 / 3MHz / QPSK									
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)
Middle	1635.3	-54.01	-13	-41.01	-63.42	-57.26	4.00	9.40	H
	2452.95	-60.41	-13	-47.41	-73.94	-63.98	4.88	10.60	H
	3270.6	-60.23	-13	-47.23	-75.98	-65.16	5.52	12.60	H
	1635.3	-57.85	-13	-44.85	-66.74	-61.10	4.00	9.40	V
	2452.95	-57.35	-13	-44.35	-70.65	-60.92	4.88	10.60	V
	3270.6	-60.58	-13	-47.58	-75.96	-65.51	5.52	12.60	V

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

LTE Band 26 / 5MHz / QPSK									
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)
Middle	1633.5	-53.43	-13	-40.43	-62.84	-56.68	4.00	9.40	H
	2450.25	-57.27	-13	-44.27	-70.80	-60.84	4.88	10.60	H
	3267	-59.94	-13	-46.94	-75.73	-64.87	5.52	12.60	H
	1633.5	-58.90	-13	-45.90	-67.79	-62.15	4.00	9.40	V
	2450.25	-56.72	-13	-43.72	-70.02	-60.29	4.88	10.60	V
	3267	-60.34	-13	-47.34	-75.78	-65.27	5.52	12.60	V

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

LTE Band 26 / 10MHz / QPSK									
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)
Middle	1629	-55.75	-13	-42.75	-65.16	-59.00	4.00	9.40	H
	2443.5	-59.38	-13	-46.38	-72.91	-62.95	4.88	10.60	H
	3258	-59.99	-13	-46.99	-75.78	-64.92	5.52	12.60	H
	1629	-60.02	-13	-47.02	-68.91	-63.27	4.00	9.40	V
	2443.5	-55.99	-13	-42.99	-69.29	-59.56	4.88	10.60	V
	3258	-59.98	-13	-46.98	-75.42	-64.91	5.52	12.60	V

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