

FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Redmi
MODEL NAME	:	2201116SG
FCC ID	:	2AFZZ16SG
STANDARD	:	47 CFR Part 2, and 90(S)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Nov. 29, 2021 ~ Dec. 16, 2021

We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

JasonJia

Reviewed by: Jason Jia / Supervisor

Acepwany

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW1N1013	Rev. 01	Initial issue of report	Jan. 04, 2022



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	_	Report only	-
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	_	Report only	-
3.3	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log ₁₀ (P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 17.27 dB at 1630.000 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

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	Redmi
Model Name	2201116SG
FCC ID	2AFZZ16SG
IMEI Code	Conduction:864451050055441/864451050055158 Radiation:864451050060201/864451050060219
HW Version	P1.1
SW Version	MIUI 13
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 ~ 824 MHz						
Rx Frequency	859 ~ 869 MHz						
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz						
Maximum Output Power to Antenna	Ant.0:24.35 dBm						
Maximum Output Power to Antenna	Ant 4:24.37 dBm						
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM(Downlink Only)						

Note: For Antenna 0/4, the higher Conducted power is showed in this report.

1.5 Modification of EUT

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



1.6 Maximum Conducted Power and Emission Designator

Ľ	TE Band 26	QP	SK	16QAM/64QAM			
BW (MHz)			Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)		
15	821.5	0.2735	13W5G7D	0.2382	13W5W7D		

Note:

1. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

2. Based on engineering evaluation, only the maximum bandwidth and the worst modulation test results are shown in the report.

1.7 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (H	Sporton International (Kunshan) Inc.							
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone								
Test Site Location	Jiangsu Province 215300 People's Republic of China								
Test Site Location	TEL : +86-512-57900158								
	FAX : +86-512-57900958								
	Sporton Site No.	FCC Designation No.	FCC Test Firm						
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.						
	03CH05-KS TH01-KS	CN1257	314309						

1.8 Test Software

Item Site		Manufacturer	Name	Version	
1.	03CH05-KS	AUDIX	E3	6.2009-8-24al	



1.9 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

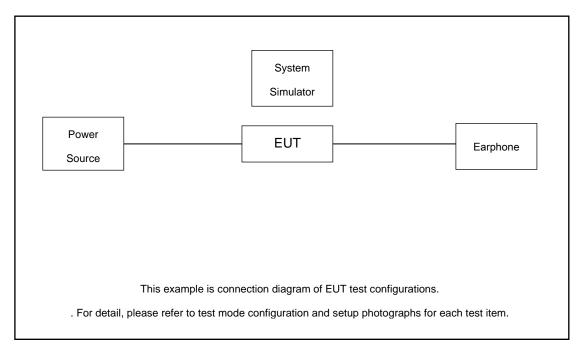
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

			Ва	ndwid	lth (MH	łz)		M	odulatio	'n		RB #		Tes	st Chan	nel
Test Items	Band	1.4	3	5	10	15	20	QPSK	16Q AM	64QA M	1	Hal f	Full	L	м	н
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	
Emission masks In-band emissions	26	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	v
Frequency Stability	26				v		-	v					v		v	
Radiated Spurious Emission	26		Worst Case							v						
Note	2. Th 3. LT ove	2. The mark "-" means that this bandwidth is not supported.														

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.



2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

ltem	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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	MI	N/A	N/A	Unshielded,1.2m	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.

Offset = RF cable loss.

The following shows an offset computation example with RF cable loss 4.8 dB

Example :

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

= 4.8



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

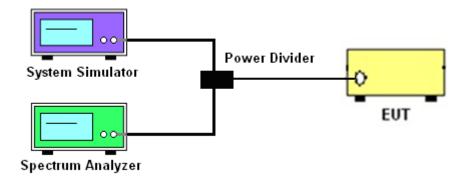
3.2.2 Measuring Instruments

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 + 10Log₁₀(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

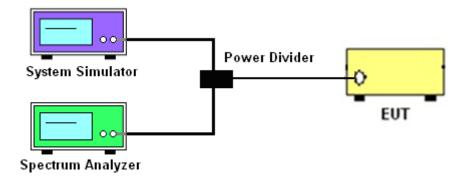
The measuring equipment is listed in the section 4 of this test report.

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.
- 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 10^{th} harmonic.

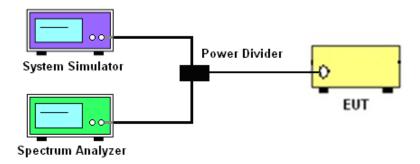
3.4.2 Measuring Instruments

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.
- 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/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.

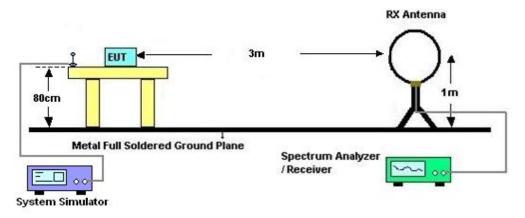
3.5.3 Test Procedures

- 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)

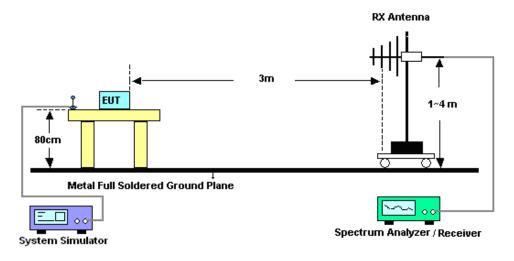


3.5.4 Test Setup

For radiated test from 30MHz

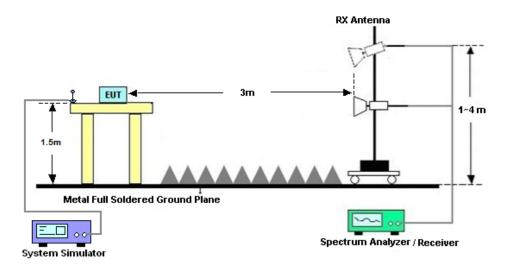


For radiated test from 30MHz to 1GHz





For radiated test above 1GHz



3.5.5 Test Result of Field Strength of Spurious Radiated

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

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 $\pm 0.00025\%$ (± 2.5 ppm) 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

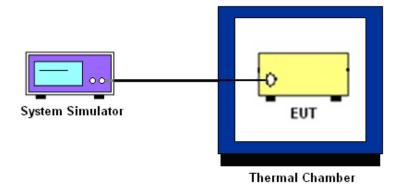
- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature 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	101040	10Hz~40GHz	Oct. 14, 2021	Nov. 29, 2021~ Nov. 30, 2021	Oct. 13, 2022	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Nov. 29, 2021~ Nov. 30, 2021	Aug. 25, 2022	Conducted (TH01-KS)
Temperature &hu midity chamber	Hongzhan	LP-150U	H201401144 0	-40~+150°C 20%~95%RH	Jul. 12, 2021	Nov. 29, 2021~ Nov. 30, 2021	Jul. 11, 2022	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Dec. 16, 2021	Apr. 12, 2022	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Dec. 16, 2021	Oct. 29, 2022	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	2021, Jun. 04	Dec. 16, 2021	Jun. 03, 2022	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 24, 2021	Dec. 16, 2021	Apr. 23, 2022	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 09, 2021	Dec. 16, 2021	Nov. 08, 2022	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Apr. 12, 2021	Dec. 16, 2021	Apr. 11, 2022	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Dec. 16, 2021	Jan. 06, 2022	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30- 10P	2012228	1Ghz-18Ghz	Oct. 16, 2021	Dec. 16, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5G Hz	Oct. 16, 2021	Dec. 16, 2021	Oct. 15, 2022	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 16, 2021	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 16, 2021	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 16, 2021	NCR	Radiation (03CH05-KS)

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	2.5dB	
Confidence of 95% (U = 2Uc(y))	2.508	

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.1dB



Appendix A. Test Results of Conducted Test

Cimic Wong	Temperature :	22~23°C	
Test Engineer :	Simle Wang	Relative Humidity :	40~42%

Conducted Output Power (Average power)

For Ant 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
	Channel			26765	-	-
	Frequen	cy (MHz)		821.5	-	-
15	QPSK	1	0	24.34	-	-
15	QPSK	1	37	24.36	-	-
15	QPSK	1	74	24.37	-	-
15	QPSK	36	0	23.52	-	-
15	QPSK	36	20	23.30	-	-
15	QPSK	36	39	23.31	-	-
15	QPSK	75	0	23.42	-	-
15	16QAM	1	0	23.77	-	-
15	16QAM	1	37	23.24	-	-
15	16QAM	1	74	23.29	-	-
15	16QAM	36	0	22.44	-	-
15	16QAM	36	20	22.40	-	-
15	16QAM	36	39	22.35	-	-
15	16QAM	75	0	22.42	-	-
15	64QAM	1	0	22.80	-	-
15	64QAM	1	37	22.21	-	-
15	64QAM	1	74	22.33	-	-
15	64QAM	36	0	21.43	-	-
15	64QAM	36	20	21.33	-	-
15	64QAM	36	39	21.36	-	-
15	64QAM	75	0	21.32	-	-
	Cha	nnel		-	26740	-
	Frequen	cy (MHz)		-	819	-
10	QPSK	1	0	-	24.35	-
10	QPSK	1	25	-	24.21	-
10	QPSK	1	49	-	24.26	-
10	QPSK	25	0	-	23.45	-
10	QPSK	25	12	-	23.44	-
10	QPSK	25	25	-	23.10	-
10	QPSK	50	0	-	23.43	-
10	16QAM	1	0	-	23.32	-
10	16QAM	1	25	-	23.18	-
10	16QAM	1	49	-	23.32	-

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40	400414	05			00.40	
10	16QAM	25	0	-	22.18	-
10	16QAM	25	12	-	22.28	-
10	16QAM	25	25	-	22.19	-
10	16QAM	50	0	-	22.36	-
10	16QAM	1	0	-	22.39	-
10	64QAM	1	25	-	22.27	-
10	64QAM	1	49	-	22.33	-
10	64QAM	25	0	-	21.38	-
10	64QAM	25	12	-	21.16	-
10	64QAM	25	25	-	21.28	-
10	64QAM	50	0	-	21.43	26765
	Cha			26715	26740	26765
		cy (MHz)		816.5	819	821.5
5	QPSK	1	0	24.32	24.35	24.22
5	QPSK	1	12	24.29	24.24	24.36
5	QPSK	1	24	24.25	24.20	24.20
5	QPSK	12	0	23.35	23.54	23.22
5	QPSK	12	7	23.29	23.45	23.32
5	QPSK	12	13	23.16	23.19	23.29
5	QPSK	25	0	23.30	23.37	23.54
5	16QAM	1	0	23.24	23.32	23.36
5	16QAM	1	12	23.22	23.34	23.32
5	16QAM	1	24	23.12	23.33	23.12
5	16QAM	12	0	22.30	22.41	22.28
5	16QAM	12	7	22.40	22.33	22.12
5	16QAM	12	13	22.20	22.25	22.08
5	16QAM	25	0	22.49	22.30	22.23
5	64QAM	1	0	22.31	22.51	22.44
5	64QAM	1	12	22.27	22.31	22.23
5	64QAM	1	24	22.20	22.38	22.25
5	64QAM	12	0	21.34	21.43	21.49
5	64QAM	12	7	21.32	21.32	21.40
5	64QAM	12	13 0	21.32	21.33	21.11 21.48
5	64QAM	25 Innel	U	21.22 26705	21.40	
					26740	26775
	· · ·	cy (MHz)		815.5	819	822.5
3	QPSK	1	0	24.35	24.33	24.36
3	QPSK	1	8	24.21	24.14	24.35
3	QPSK	1	14	24.36	24.33	24.10
3	QPSK	8	0	23.43	23.41	23.31
3	QPSK	8	4	23.21	23.49	23.12
3	QPSK	8	7	23.21	23.34	23.25
3	QPSK	15	0	23.30	23.30	23.33
3	16QAM	1	0	23.23	23.32	23.32
3	16QAM	1	8	23.13	23.34	23.34
3	16QAM	1	14	23.24	23.35	23.22
3	16QAM	8	0	22.38	22.30	22.20

Sporton International (Kunshan) Inc. TEL : +86-512-57900158 FAX : +86-512-57900958 FCC ID : 2AFZZ16SG Page Number: A2 of A26Report Issued Date: Jan. 04, 2022Report Version: Rev. 01



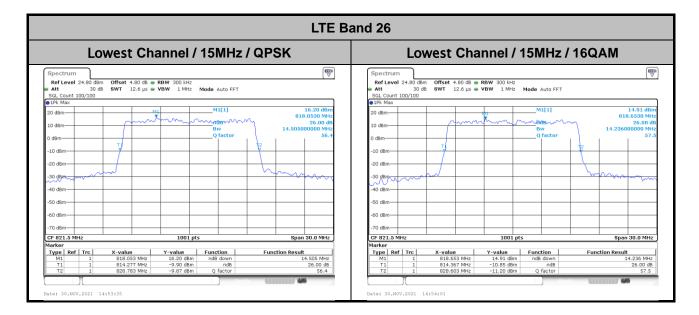
Report No. : FW1N1013

3 160AM 8 4 22.28 22.18 22.07 3 160AM 15 0 22.28 22.37 22.40 3 640AM 1 0 22.26 22.37 22.40 3 640AM 1 8 22.26 22.37 22.40 3 640AM 1 14 22.34 22.36 22.22 3 640AM 1 14 22.34 22.36 22.22 3 640AM 8 0 21.40 21.41 21.22 3 640AM 8 7 21.43 21.28 21.44 3 640AM 8 7 21.43 21.40 21.43 3 640AM 8 7 21.43 21.40 21.43 1 0A 24.25 24.28 24.43 24.43 24.43 1.4 0PSK 1 3 24.25 24.29 24.28 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>							
3 160AM 15 0 22.46 22.36 22.31 3 640AM 1 0 22.22 22.37 22.40 3 640AM 1 8 22.26 22.23 22.13 3 640AM 1 14 22.34 22.36 22.22 3 640AM 8 0 21.40 21.41 21.55 3 640AM 8 4 21.19 21.21 21.22 3 640AM 8 7 21.43 21.28 21.24 3 640AM 8 7 21.43 21.24 21.24 3 640AM 8 7 21.43 21.24 21.24 3 640AM 8 7 21.43 21.42 21.43 1 Channel 26697 26740 26783 1.4 QPSK 1 3 24.25 24.29 24.28 1.4 QPSK <	3	16QAM	8	4	22.28	22.18	22.07
3 64QAM 1 0 22.22 22.37 22.40 3 64QAM 1 8 22.26 22.23 22.13 3 64QAM 1 14 22.34 22.36 22.22 3 64QAM 8 0 21.40 21.41 21.21 3 64QAM 8 4 21.19 21.21 21.22 3 64QAM 8 7 21.43 21.28 21.24 3 64QAM 8 7 21.43 21.24 21.43 3 64QAM 16 0 21.34 21.40 21.43 3 64QAM 16 0 24.32 24.36 21.43 4 QPSK 1 3 24.25 24.29 24.28 1.4 QPSK 1 5 24.23 24.31 24.28 1.4 QPSK 3 0 24.32 24.33 24.28 1.4	3	16QAM	8	7	22.28	22.24	22.17
3 64QAM 1 8 22.26 22.23 22.13 3 64QAM 1 14 22.34 22.36 22.22 3 64QAM 8 0 21.40 21.41 21.55 3 64QAM 8 7 21.43 21.28 21.24 3 64QAM 8 7 21.34 21.40 21.43 3 64QAM 8 7 21.34 21.40 21.43 3 64QAM 15 0 21.34 21.40 21.43 3 64QAM 15 0 21.34 21.40 21.43 4 OPSK 1 0 24.32 24.36 24.31 1.4 OPSK 1 5 24.23 24.32 24.28 1.4 OPSK 3 1 24.27 24.31 24.26 1.4 OPSK 3 3 24.30 24.33 24.28 1.	3	16QAM	15	0	22.46	22.36	22.31
3 64QAM 1 14 22.34 22.36 22.22 3 64QAM 8 0 21.40 21.41 21.55 3 64QAM 8 7 21.43 21.21 21.22 3 64QAM 8 7 21.43 21.28 21.24 3 64QAM 15 0 21.34 21.40 21.43 3 64QAM 15 0 24.32 24.30 24.31 1.4 OPSK 1 3 24.25 24.29 24.28 1.4 OPSK 3 1 24.27 24.31 24.26 1.4 OPSK 3 3 24.30 24.32 23.31 <t< th=""><th>3</th><th>64QAM</th><th>1</th><th>0</th><th>22.22</th><th>22.37</th><th>22.40</th></t<>	3	64QAM	1	0	22.22	22.37	22.40
3 64QAM 8 0 21.40 21.41 21.55 3 64QAM 8 4 21.19 21.21 21.22 3 64QAM 8 7 21.43 21.28 21.24 3 64QAM 15 0 21.34 21.40 21.43 Channel 26697 26740 26783 Trequency (MHz) 814.7 819 823.3 1.4 QPSK 1 0 24.32 24.36 24.31 1.4 QPSK 1 3 24.25 24.29 24.28 1.4 QPSK 1 5 24.32 24.10 24.32 24.10 1.4 QPSK 3 0 24.32 24.33 24.28 1.4 QPSK 3 3 24.30 24.28 24.33 24.15 1.4 QPSK 3 3 24.30 24.33 24.15 1.4 QPSK	3	64QAM	1	8	22.26	22.23	22.13
3 64QAM 8 4 21.19 21.21 21.22 3 64QAM 8 7 21.43 21.28 21.24 3 64QAM 15 0 21.34 21.40 21.43 3 64QAM 15 0 21.34 21.40 21.43 Channel Channel 26697 26740 26783 1.4 QPSK 1 0 24.32 24.36 24.31 1.4 QPSK 1 3 24.25 24.29 24.28 1.4 QPSK 1 5 24.23 24.31 24.28 1.4 QPSK 3 0 24.32 24.33 24.28 1.4 QPSK 3 3 24.30 24.33 24.26 1.4 QPSK 3 3 24.30 24.33 24.15 1.4 QPSK 6 0 23.32 23.34 23.28 1.4 16QAM </th <th>3</th> <th>64QAM</th> <th>1</th> <th>14</th> <th>22.34</th> <th>22.36</th> <th>22.22</th>	3	64QAM	1	14	22.34	22.36	22.22
3 640AM 8 7 21.43 21.28 21.24 3 640AM 15 0 21.34 21.40 21.43 3 640AM 15 0 21.34 21.40 21.43 Channel Channel 26697 26740 26783 Tequency (MHz) 814.7 819 823.3 1.4 QPSK 1 0 24.32 24.36 24.31 1.4 QPSK 1 3 24.25 24.29 24.28 1.4 QPSK 1 5 24.23 24.32 24.10 1.4 QPSK 3 0 24.32 24.33 24.28 1.4 QPSK 3 1 24.27 24.31 24.26 1.4 QPSK 3 3 24.30 24.33 24.28 1.4 QPSK 6 0 23.52 23.34 23.28 1.4 160AM 1 0	3	64QAM	8	0	21.40	21.41	21.55
3 64QAM 15 0 21.34 21.40 21.43 Charnel 26697 26740 26783 Frequency (MHz) 814.7 819 823.3 1.4 QPSK 1 0 24.32 24.36 24.31 1.4 QPSK 1 3 24.25 24.29 24.28 1.4 QPSK 1 5 24.23 24.32 24.10 1.4 QPSK 1 5 24.23 24.32 24.10 1.4 QPSK 3 0 24.32 24.33 24.28 1.4 QPSK 3 1 24.27 24.31 24.26 1.4 QPSK 3 3 24.30 24.33 24.15 1.4 QPSK 6 0 23.33 23.35 23.15 1.4 16QAM 1 0 23.33 23.25 23.21 1.4 16QAM 3 1 23.26<	3	64QAM	8	4	21.19	21.21	21.22
Channel 26697 26740 26783 Frequency (MHz) 814.7 819 823.3 1.4 QPSK 1 0 24.32 24.36 24.31 1.4 QPSK 1 3 24.25 24.29 24.28 1.4 QPSK 1 5 24.23 24.32 24.10 1.4 QPSK 3 0 24.32 24.33 24.28 1.4 QPSK 3 1 24.27 24.31 24.26 1.4 QPSK 3 3 24.30 24.33 24.15 1.4 QPSK 3 3 24.30 24.33 24.26 1.4 QPSK 6 0 23.52 23.34 23.28 1.4 QPSK 6 0 23.35 23.15 1.4 160AM 1 3 23.17 23.20 23.16 1.4 160AM 3 3 23.23 23.23	3	64QAM	8	7	21.43	21.28	21.24
Frequency (MHz) 814.7 819 823.3 1.4 QPSK 1 0 24.32 24.36 24.31 1.4 QPSK 1 3 24.25 24.29 24.28 1.4 QPSK 1 5 24.23 24.32 24.10 1.4 QPSK 3 0 24.32 24.33 24.28 1.4 QPSK 3 0 24.32 24.33 24.28 1.4 QPSK 3 1 24.27 24.31 24.26 1.4 QPSK 6 0 23.52 23.34 23.28 1.4 QPSK 6 0 23.33 23.35 23.15 1.4 16QAM 1 3 23.17 23.20 23.16 1.4 16QAM 1 5 23.02 23.21 23.06 1.4 16QAM 3 0 23.23 23.22 23.06 1.4 16QAM <t< th=""><th>3</th><th>64QAM</th><th>15</th><th>0</th><th>21.34</th><th>21.40</th><th>21.43</th></t<>	3	64QAM	15	0	21.34	21.40	21.43
1.4QPSK1024.3224.3624.311.4QPSK1324.2524.2924.281.4QPSK1524.2324.3224.101.4QPSK3024.3224.3324.281.4QPSK3124.2724.3124.261.4QPSK3324.3024.3324.151.4QPSK6023.5223.3423.281.416QAM1023.3323.3523.151.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM3323.3123.1823.061.416QAM1022.3322.4022.421.464QAM1322.3322.2722.181.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17		Cha	nnel		26697	26740	26783
1.4QPSK1324.2524.2924.281.4QPSK1524.2324.3224.101.4QPSK3024.3224.3324.281.4QPSK3124.2724.3124.261.4QPSK3324.3024.3324.151.4QPSK6023.5223.3423.281.416QAM1023.3323.3523.151.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3123.2623.3223.061.416QAM3322.3722.181.416QAM1022.3322.4022.421.416QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17		Frequen	cy (MHz)		814.7	819	823.3
1.4QPSK1524.2324.3224.101.4QPSK3024.3224.3324.281.4QPSK3124.2724.3124.261.4QPSK3324.3024.3324.151.4QPSK6023.5223.3423.281.416QAM1023.3323.3523.151.416QAM1323.1723.2023.161.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3123.2623.3223.061.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM3323.3123.1823.061.416QAM3322.3322.4022.421.464QAM1022.3322.4022.421.464QAM1522.2623.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	QPSK	1	0	24.32	24.36	24.31
1.4QPSK3024.3224.3324.281.4QPSK3124.2724.3124.261.4QPSK3324.3024.3324.151.4QPSK6023.5223.3423.281.416QAM1023.3323.3523.151.416QAM1323.1723.2023.161.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM3323.3123.1823.061.416QAM1022.3322.2322.181.416QAM1022.3322.4022.421.416QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	QPSK	1	3	24.25	24.29	24.28
1.4QPSK3124.2724.3124.261.4QPSK3324.3024.3324.151.4QPSK6023.5223.3423.281.416QAM1023.3323.3523.151.416QAM1323.1723.2023.161.416QAM1523.0223.2123.061.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM3323.3123.1823.061.416QAM1022.3322.2322.181.416QAM1022.3322.4022.421.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	QPSK	1	5	24.23	24.32	24.10
1.4QPSK3324.3024.3324.151.4QPSK6023.5223.3423.281.416QAM1023.3323.3523.151.416QAM1323.1723.2023.161.416QAM1523.0223.2123.061.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM6022.4722.2322.181.416QAM1022.3322.4022.421.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	QPSK	3	0	24.32	24.33	24.28
1.4QPSK6023.5223.3423.281.416QAM1023.3323.3523.151.416QAM1323.1723.2023.161.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.211.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM6022.4722.2322.181.416QAM1022.3322.4022.421.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	QPSK	3	1	24.27	24.31	24.26
1.416QAM1023.3323.3523.151.416QAM1323.1723.2023.161.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM6022.4722.2322.181.416QAM1022.3322.4022.421.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3222.3422.4522.261.464QAM3222.3422.4522.261.464QAM3322.4222.3022.17	1.4	QPSK	3	3	24.30	24.33	24.15
1.416QAM1323.1723.2023.161.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM3323.3123.1823.061.416QAM6022.4722.2322.181.416QAM1022.3322.4022.421.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	QPSK	6	0	23.52	23.34	23.28
1.416QAM1523.0223.2123.061.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM6022.4722.2322.181.416QAM6022.3322.4022.421.464QAM1022.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM322.3422.4522.261.464QAM322.3422.4522.261.464QAM322.3422.4522.261.464QAM322.3422.4522.261.464QAM322.3422.4522.261.464QAM3322.4222.3022.17	1.4	16QAM	1	0	23.33	23.35	23.15
1.416QAM3023.2323.2523.211.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM6022.4722.2322.181.464QAM1022.3322.4022.421.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM32122.3422.4522.261.464QAM3322.4222.3022.17	1.4	16QAM	1	3	23.17	23.20	23.16
1.416QAM3123.2623.3223.061.416QAM3323.3123.1823.061.416QAM6022.4722.2322.181.464QAM1022.3322.4022.421.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM32122.3422.4522.261.464QAM3322.4222.3022.17	1.4	16QAM	1	5	23.02	23.21	23.06
1.416QAM3323.3123.1823.061.416QAM6022.4722.2322.181.464QAM1022.3322.4022.421.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM322221.464QAM322221.464QAM322221.464QAM322221.464QAM322221.464QAM32222	1.4	16QAM	3	0	23.23	23.25	23.21
1.416QAM6022.4722.2322.181.464QAM1022.3322.4022.421.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	16QAM	3	1	23.26	23.32	23.06
1.464QAM1022.3322.4022.421.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	16QAM	3	3	23.31	23.18	23.06
1.464QAM1322.3322.2722.171.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	16QAM	6	0	22.47	22.23	22.18
1.464QAM1522.2622.3822.041.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	64QAM	1	0	22.33	22.40	22.42
1.464QAM3022.3922.3622.381.464QAM3122.3422.4522.261.464QAM3322.4222.3022.17	1.4	64QAM	1	3	22.33	22.27	22.17
1.4 64QAM 3 1 22.34 22.45 22.26 1.4 64QAM 3 3 22.42 22.30 22.17	1.4	64QAM	1	5	22.26	22.38	22.04
1.4 64QAM 3 3 22.42 22.30 22.17	1.4	64QAM	3	0	22.39	22.36	22.38
	1.4	64QAM	3	1	22.34	22.45	22.26
1.4 64QAM 6 0 21.51 21.28 21.18	1.4	64QAM	3	3	22.42	22.30	22.17
	1.4	64QAM	6	0	21.51	21.28	21.18



26dB Bandwidth

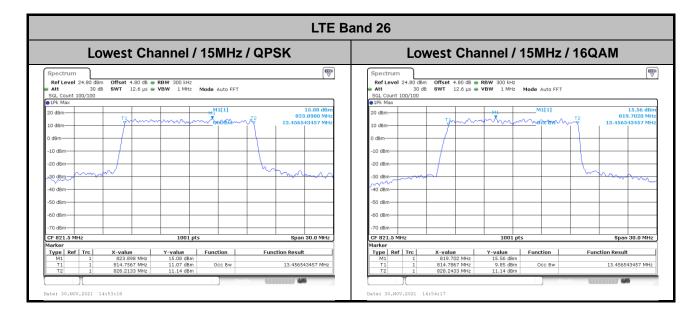
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BW	15MHz			
Mod.	QPSK 16QAM			
Low CH	14.51	14.24		





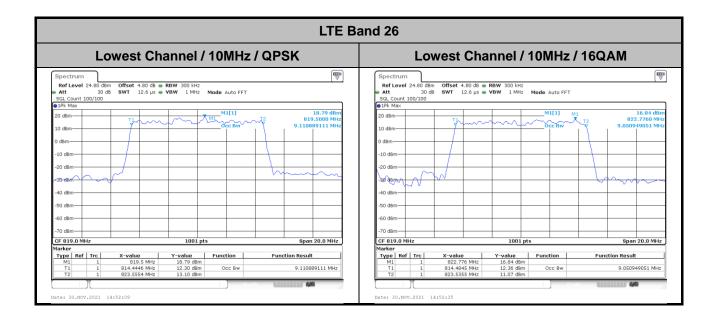
Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)			
BW	15MHz			
Mod.	QPSK 16QAM			
Low CH	13.46	13.46		



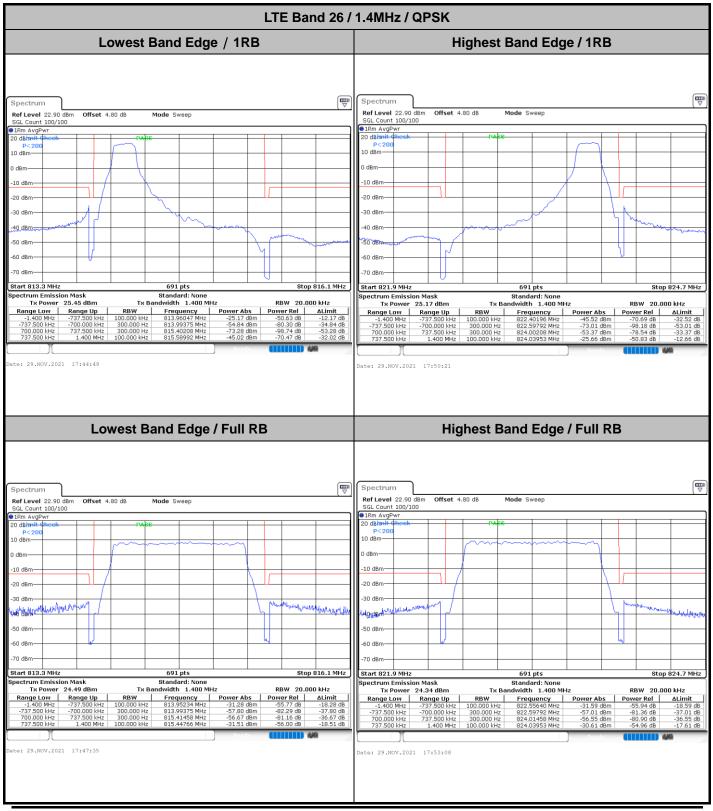


Mode	LTE Band 26 : 99%OBW(MHz)			
BW	10MHz			
Mod.	QPSK 16QAM			
Low CH	9.11	9.05		





Conducted Band Edge

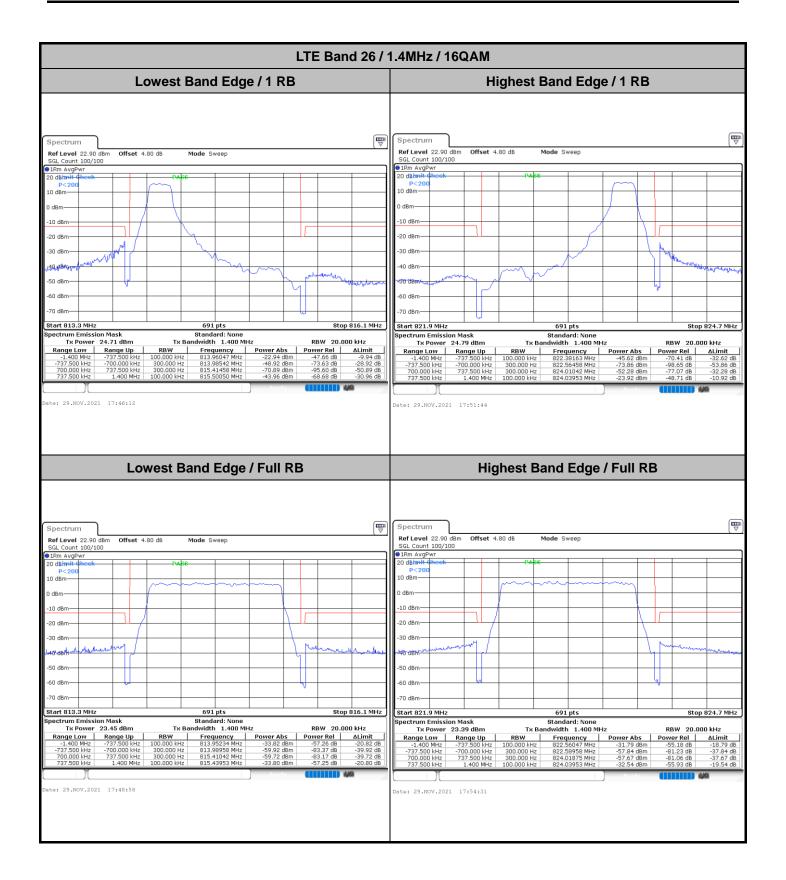


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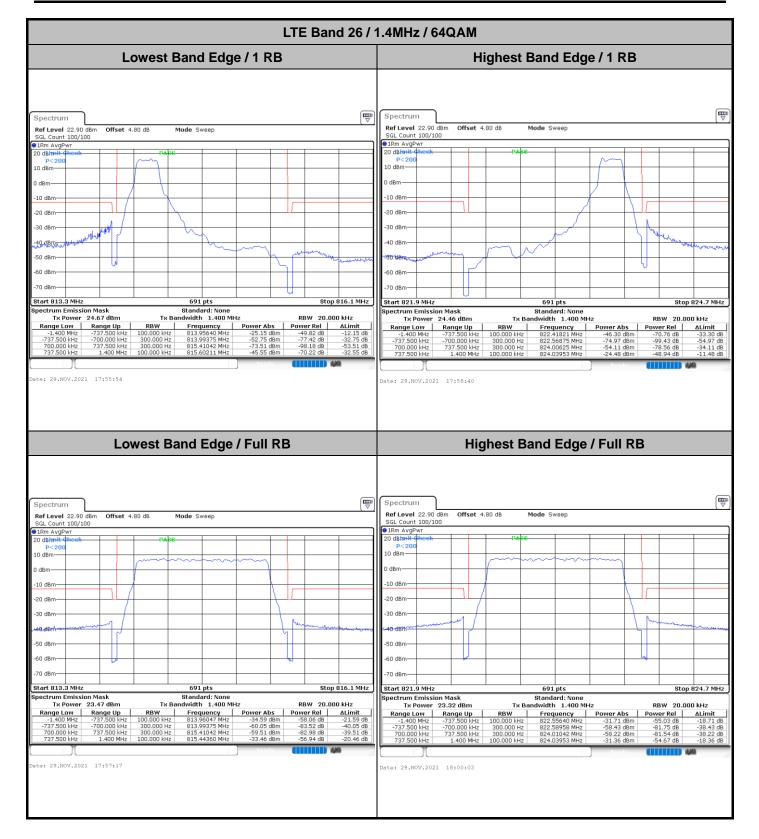
TEL : +86-512-57900158 FAX : +86-512-57900958 FCC ID : 2AFZZ16SG



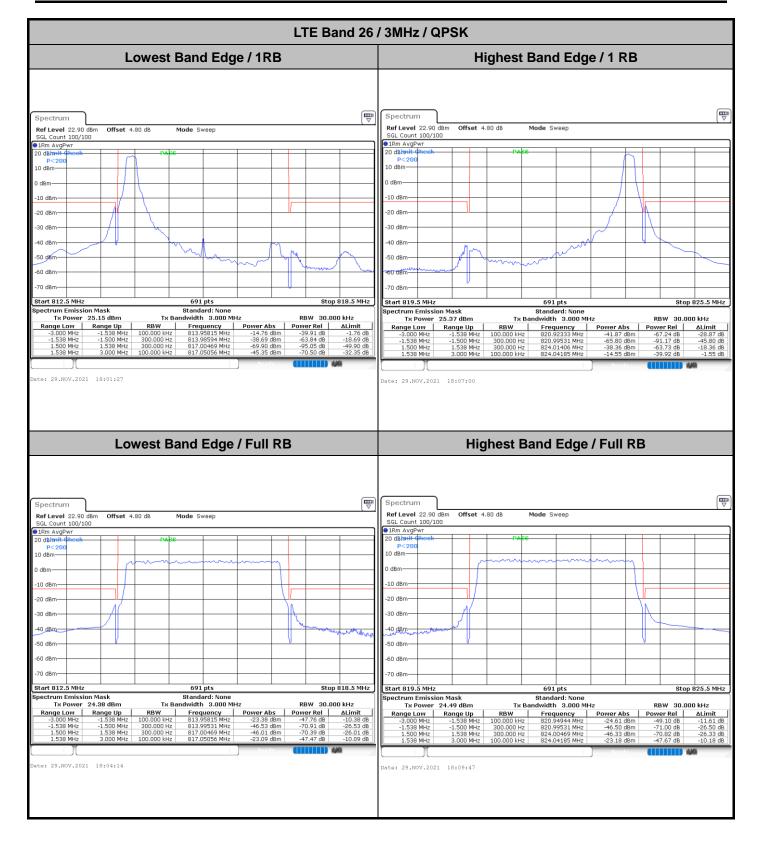




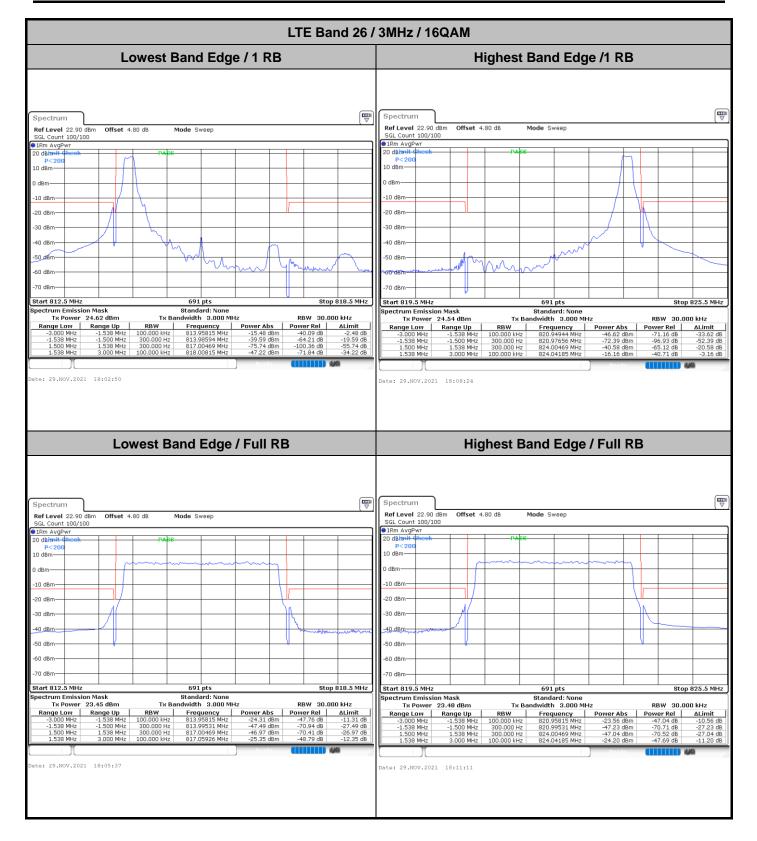




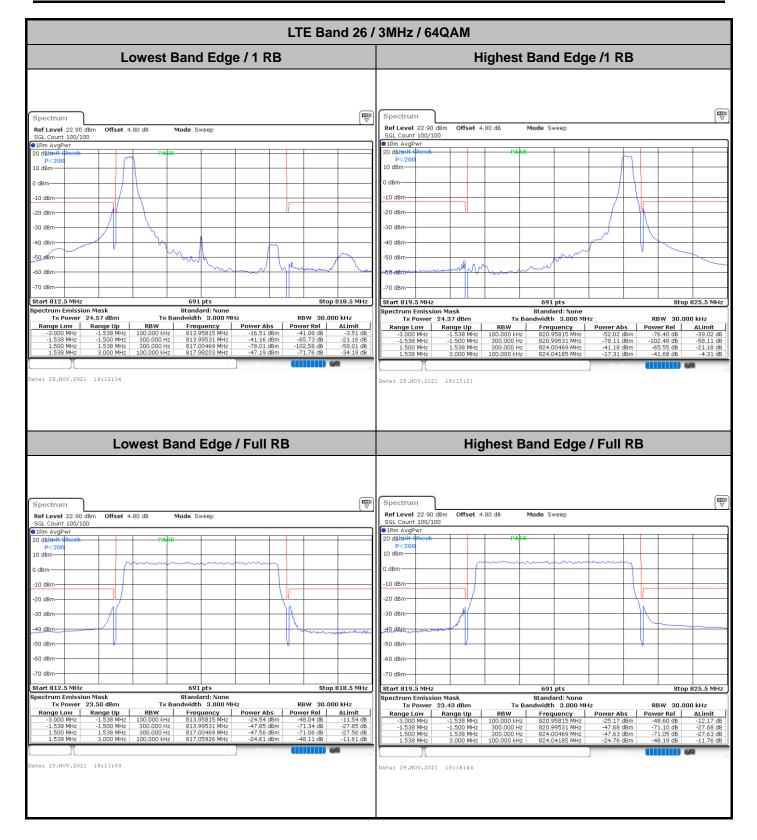




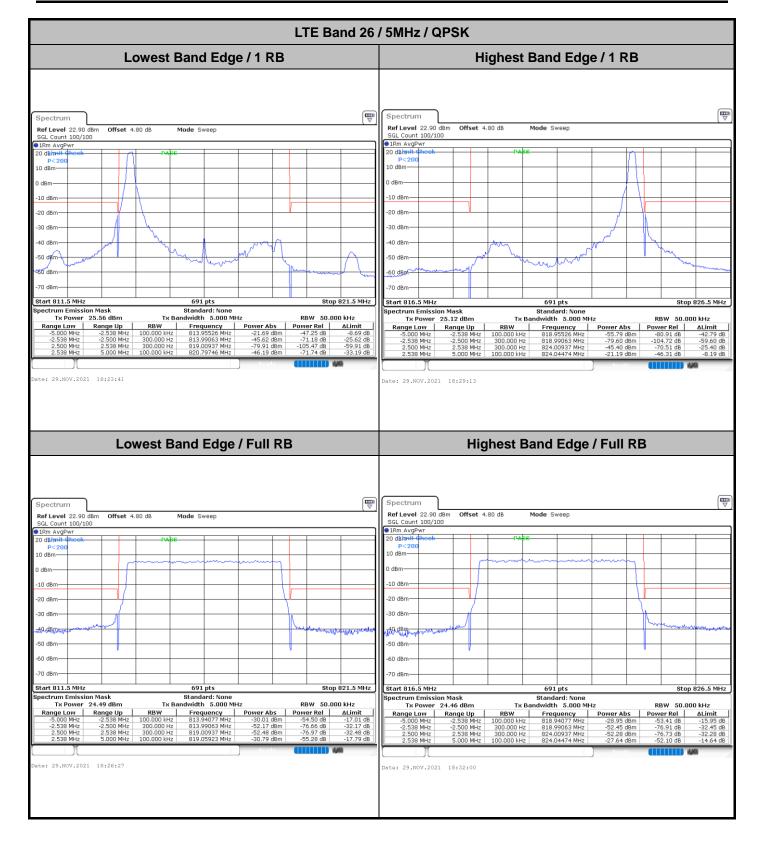




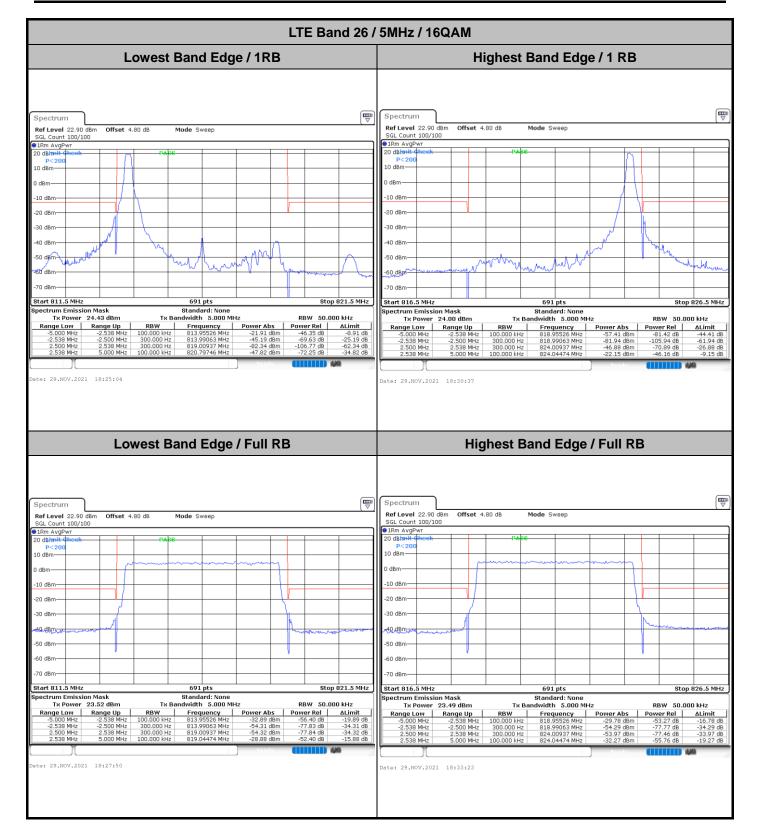






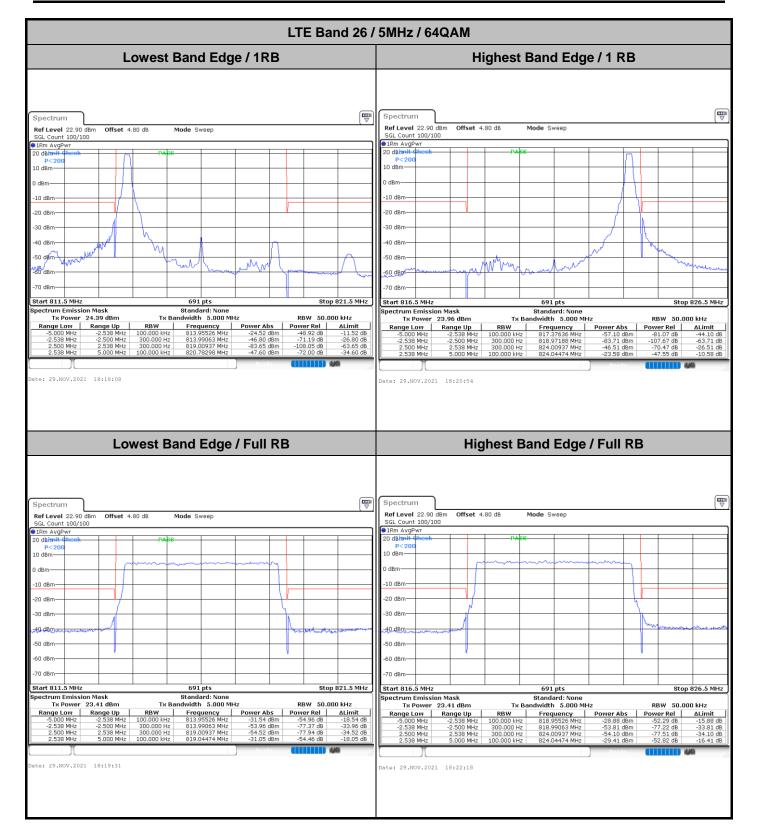




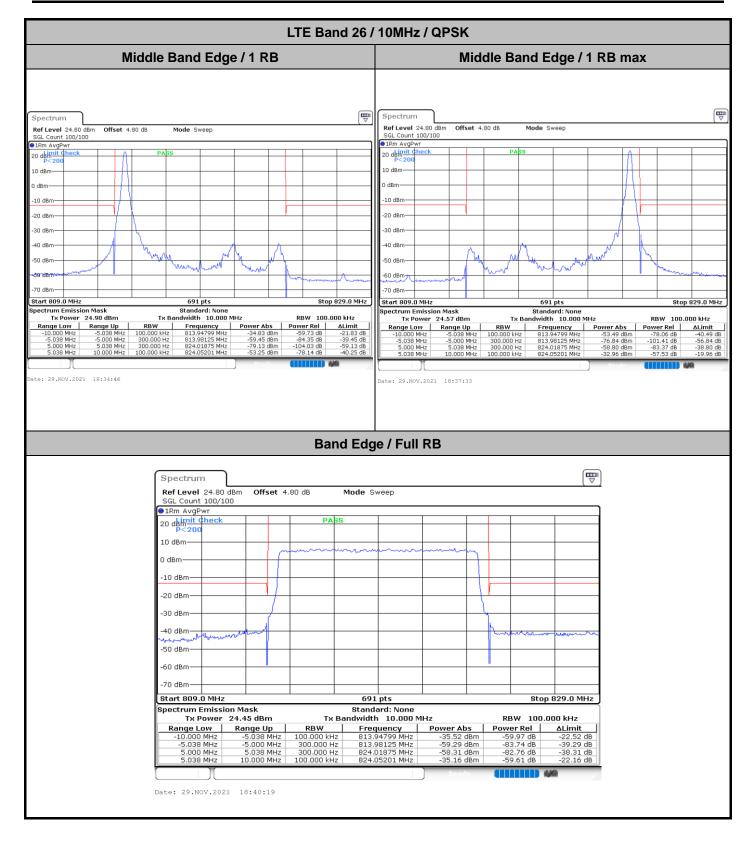


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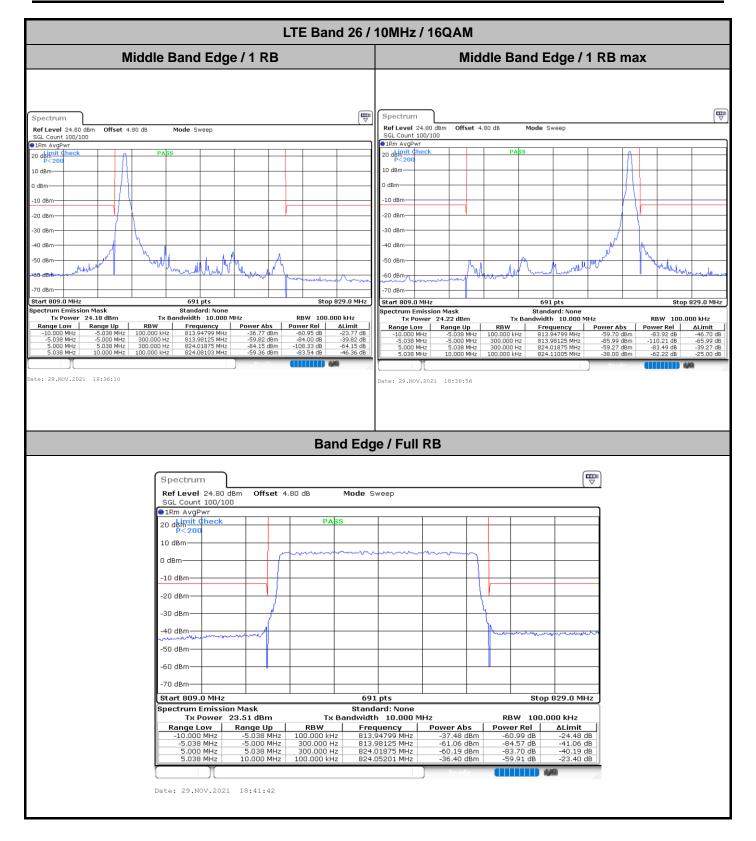








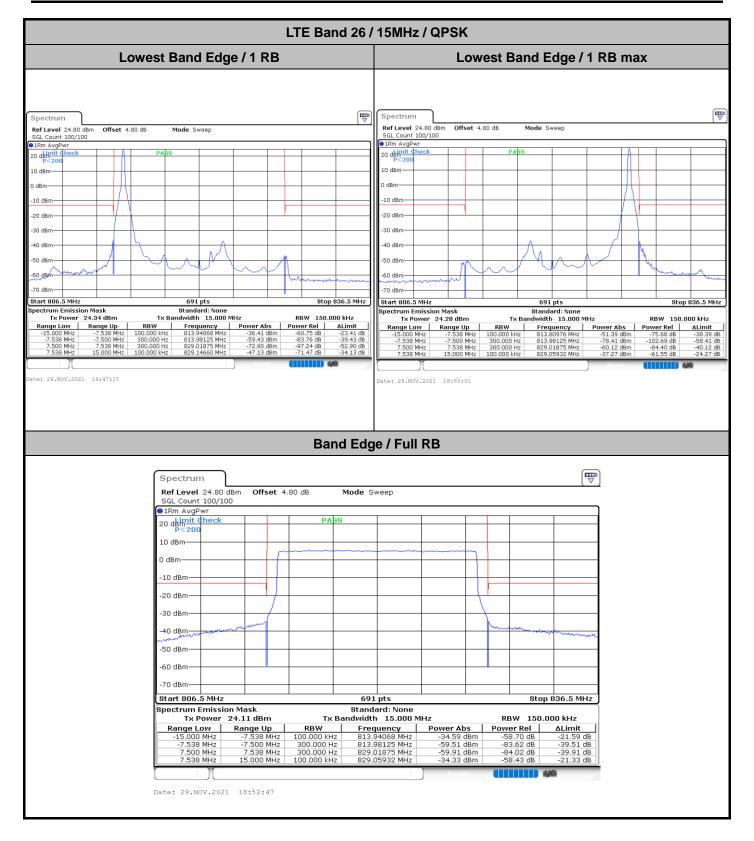




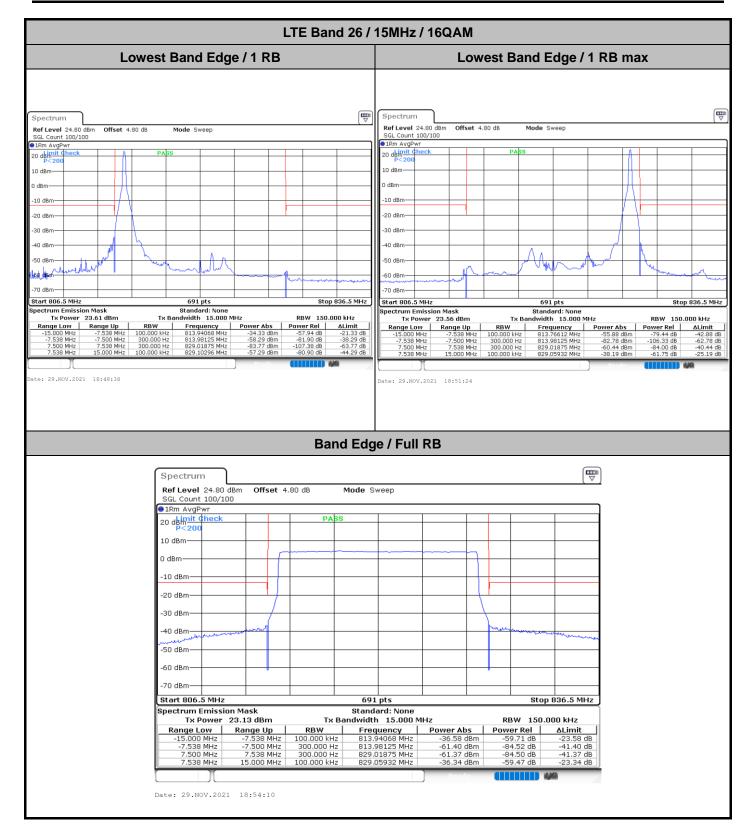




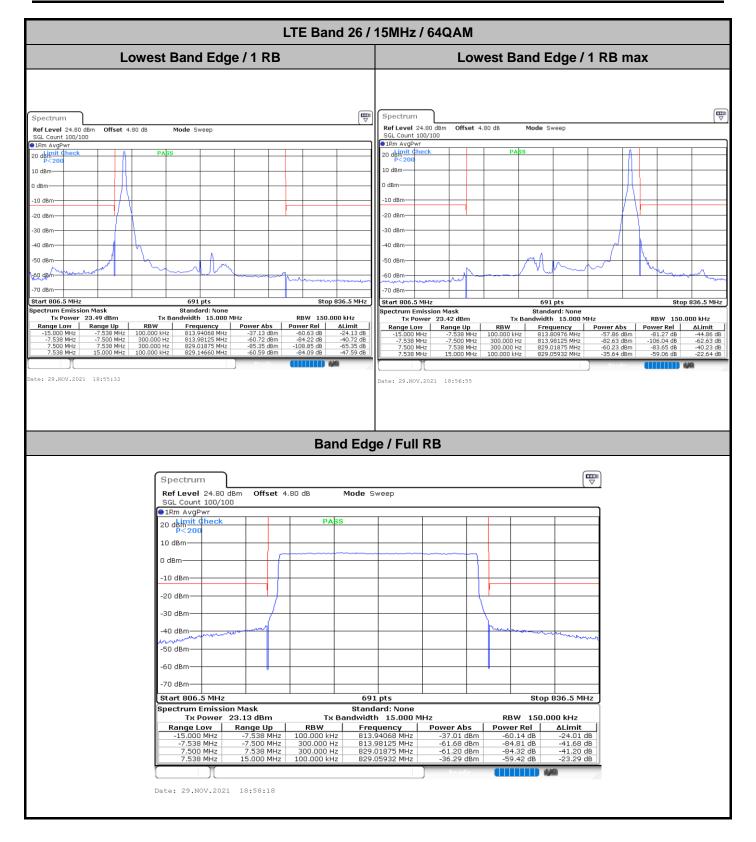






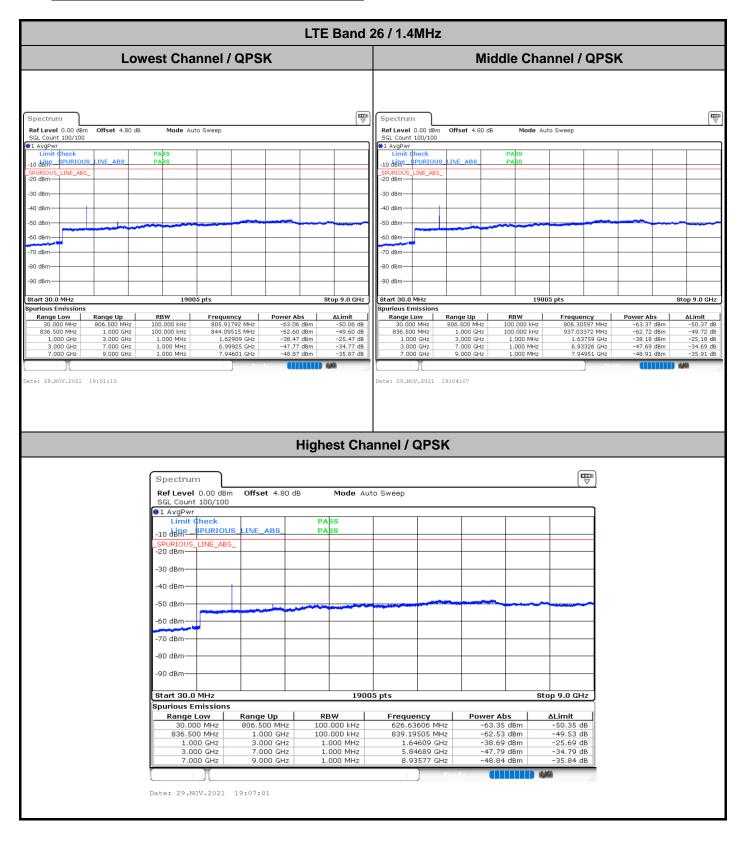






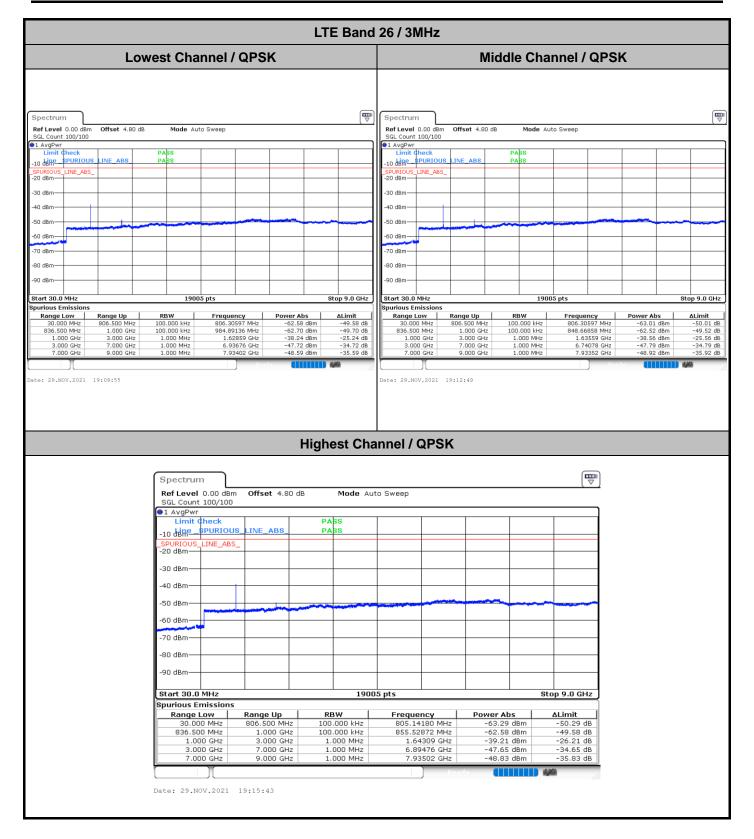


Conducted Spurious Emission

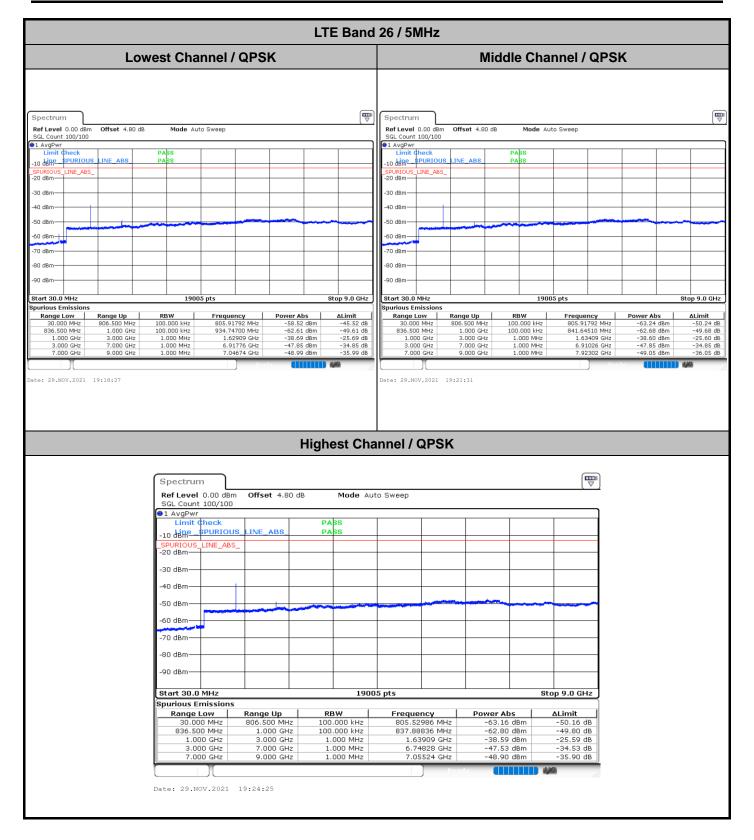


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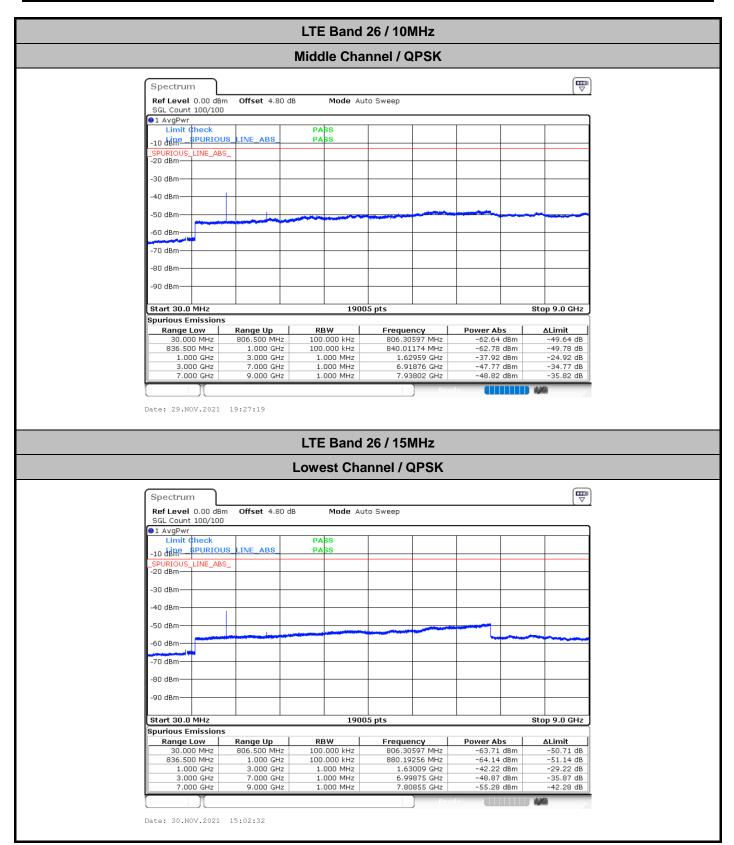














Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0013	PASS
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note: Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :		Chria C	Chris Chen		perature :		22~23°C				
		Chins C			tive Humidit	iy:	41~42%				
LTE Band 26											
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	e TX Antenna Gain (dBi)	Polarization (H/V)			
Middle	1630	-30.27	-13	-17.27	-37.24	1.58	10.70	Н			
	2444	-41.91	-13	-28.91	-50.16	2.102	12.50	Н			
	3258	-48.34	-13	-35.34	-57.23	2.856	13.90	Н			
	4074	-53.55	-13	-40.55	-62.01	2.689	13.30	Н			
	1630	-30.70	-13	-17.70	-37.67	1.58	10.70	V			
	2444	-42.39	-13	-29.39	-50.64	2.10	12.50	V			
	3258	-46.59	-13	-33.59	-55.48	2.86	13.90	V			
	4074	-54.59	-13	-41.59	-63.05	2.69	13.30	V			

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