

FCC TEST REPORT

(PART 27)

Applicant:	MeiG Smart Technology Co., Ltd
Address:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen

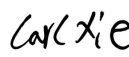
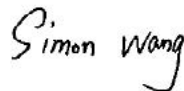
Manufacturer or Supplier:	MeiG Smart Technology Co., Ltd
Address:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen
Product:	SRM813Q
Brand Name:	MEIGLink
Model Name:	SRM813Q
FCC ID:	2APJ4-SRM813Q
Date of tests:	May. 21, 2026 ~ Jun. 23, 2026

The tests have been carried out according to the requirements of the following standard:

☒ FCC Part 2
☒ FCC Part 27

☒ ANSI C63.26-2015

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
	
Date: Jun. 23, 2026	Date: Jun. 23, 2026

Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF260623B005	Original release	Jun. 23, 2026

Note: The single module is an LCC module. There are two types of small substrates at the bottom of the module. One is in M.2 form, and the other is in MINIPCIE form. The modules welded on the top of the two types of small substrates are exactly the same; it's just that the shapes of the small substrates are different, which will not affect the RF indicators.

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
§2.1046	Conducted Output Power	Compliance	A
§27.50(h)(2) §27.50(d)(4)	Equivalent Isotropically Radiated Power (Band 30) (NR N30) (NR N70) (NR N77) (NR N78)	Compliance	A
§2.1055 §27.54	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§2.1051 §27.53(g) §27.53(h) §27.53(m)(4)(6)	Conducted Band Edge Measurements (Band 30) (NR N30) (NR N70) (NR N77) (NR N78)	Compliance	A
§2.1051 §27.53(g) §27.53(h) §27.53(m)(4)(6)	Conducted Spurious Emissions (Band 30) (NR N30) (NR N70) (NR N77) (NR N78)	Compliance	A
§2.1053 §27.53(g) §27.53(h) §27.53(m)(4)(6)	Radiated Spurious Emissions (Band 30) (NR N30) (NR N70) (NR N77) (NR N78)	Compliance	A
NA	Peak to average ratio	Compliance	A

*Test Lab Information Reference

*Test Lab Information Reference

Lab A:

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

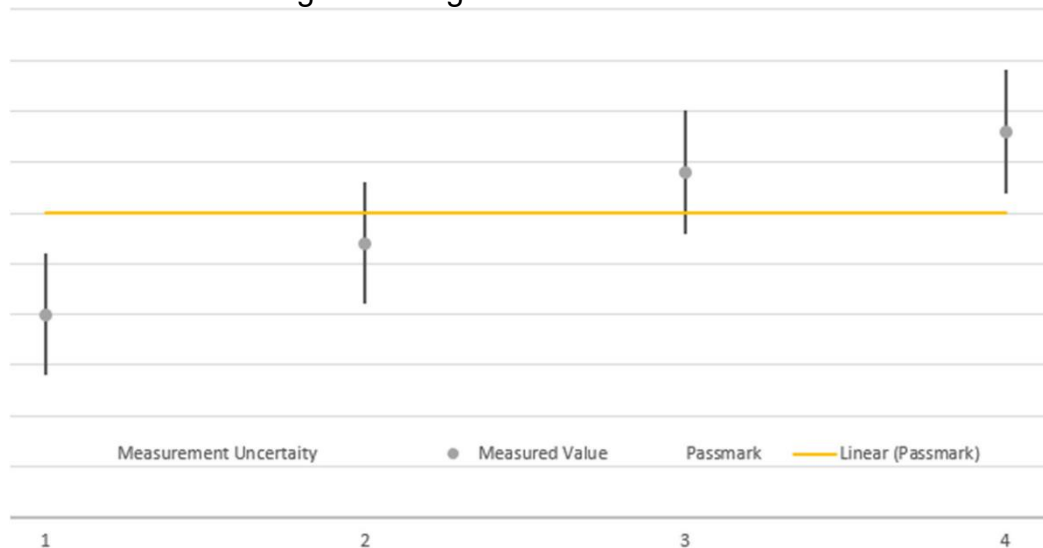
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions & Radiated Power (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Band Edge Measurements	$\pm 4.70\text{dB}$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

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1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	2025/7/3	2026/7/2
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2025/7/17	2026/7/16
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2026/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2025/7/19	2026/7/18
Preamplifier	Tonscend	TPA184045	AP24L8060388	2025/7/3	2026/7/2
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/7/1	2026/6/30
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA011845	AP24L8060392	2025/6/30	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/30	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2025/6/30	2026/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2025/6/30	2026/6/29
Temp. & Humi. Recorder	Kejian	HTC-01	157246	2025/7/2	2026/7/1
HIGH pass FILTER 1-18	EWT	EWT-57-0222	EWT-57-0222	2025/6/30	2026/6/29
HIGH pass FILTER 7-18	EWT	EWT-57-0223	EWT-57-0223	2025/6/30	2026/6/29
HIGH pass FILTER 3-18	EWT	EWT-57-0221	EWT-57-0221	2025/6/30	2026/6/29
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2025/7/3	2026/7/2
Cable 1	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 2	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2026/9/27
Wireless communication integrated tester	Rohde&Schwarz	CMW500	182016	2025/6/30	2026/6/29
EXA Signal Analyzer	KEYSIGHT	N9010B	MY62170156	2025/6/30	2026/6/29
RF Control Unit	Tonscend	JS0806-1	21K8060504	2025/6/16	2026/6/15
DC Power Supply	AGILENT	HMP2020	100598	2025/7/1	2026/6/30
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-1	2025/6/30	2026/6/29
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-2	2025/6/30	2026/6/29
hygrothermograph	Anymetrers	----	TH101B	2025/7/22	2026/7/21
Temperature Box	zhongkemeiqi	MA22040172	MQ-DTH50F-2	2025/7/1	2026/6/30
power divider	WOKEN	71688	204-003180-01	2025/6/30	2026/6/29

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NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 646781; The Designation No. is CN1429.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	SRM813Q	
BRAND NAME	MEIGLink	
MODEL NAME	SRM813Q	
NOMINAL VOLTAGE	3.8Vdc	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM, 64QAM
	5G NR	DFT-s-OFDM(Pi/2BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFDM(QPSK,16QAM,64QAM,256QAM);
FREQUENCY RANGE	LTE Band 30 Channel Bandwidth: 5MHz	2307.5MHz ~ 2312.5MHz
	LTE Band 30 Channel Bandwidth: 10MHz	2310MHz
	NR Band n30 Channel Bandwidth: 5MHz	2307.5MHz ~ 2312.5MHz
	NR Band n30 Channel Bandwidth: 10MHz	2310MHz
	NR Band n70 Channel Bandwidth: 5MHz	1697.5 MHz ~ 1707.5 MHz
	NR Band n70 Channel Bandwidth: 10MHz	1700 MHz ~ 1705 MHz
	NR Band n70 Channel Bandwidth: 15MHz	1702.5 MHz
	NR Band n77(Part27Q)	3455.01MHz ~ 3544.98MHz
	NR Band n77(Part27O)	3705MHz ~ 3974.97MHz
	NR Band n78(Part27Q)	3455.01MHz ~ 3544.98MHz
	NR Band n78(Part27O)	3705MHz ~ 3794.97MHz
MAX. EIRP or EPR POWER	LTE Band 30 Channel Bandwidth: 5MHz	163.31mW
	LTE Band 30 Channel Bandwidth: 10MHz	164.44mW
	NR Band n30 Channel Bandwidth: 5MHz	169.82mW
	NR Band n30 Channel Bandwidth: 10MHz	171.40mW
	NR Band n70 Channel Bandwidth: 5MHz	297.85mW

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	NR Band n70 Channel Bandwidth: 10MHz	293.76mW
	NR Band n70 Channel Bandwidth: 15MHz	299.92mW
	NR Band 77(Part27Q) _PC3 Channel Bandwidth:5MHz	350.75mW
	NR Band 77(Part27Q) _PC3 Channel Bandwidth:10MHz	351.56mW
	NR Band 77(Part27Q) _PC3 Channel Bandwidth: 15MHz	351.56mW
	NR Band 77(Part27Q) _PC3 Channel Bandwidth: 20MHz	355.63mW
	NR Band 77(Part27Q) _PC3 Channel Bandwidth: 5MHz	566.24mW
	NR Band 77(Part27Q) _PC3 Channel Bandwidth: 10MHz	579.43mW
	NR Band 77(Part27Q) _PC3 Channel Bandwidth: 15MHz	562.34mW
	NR Band 77(Part27Q) _PC3 Channel Bandwidth: 20MHz	582.10mW
	NR Band 77(Part27Q) _PC2 Channel Bandwidth:5MHz	550.81mW
	NR Band 77(Part27Q) _PC2 Channel Bandwidth:10MHz	537.03mW
	NR Band 77(Part27Q) _PC2 Channel Bandwidth: 15MHz	544.50mW
	NR Band 77(Part27Q) _PC2 Channel Bandwidth: 20MHz	550.81mW
	NR Band 77(Part27Q) _PC2 Channel Bandwidth: 5MHz	886.96mW
	NR Band 77(Part27Q) _PC2 Channel Bandwidth: 10MHz	847.23mW
	NR Band 77(Part27Q) _PC2 Channel Bandwidth: 15MHz	851.14mW
	NR Band 77(Part27Q) _PC2 Channel Bandwidth: 20MHz	883.08mW
	NR Band 78(Part27Q) _PC3 Channel Bandwidth:5MHz	291.74mW

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	NR Band 78(Part27Q) _PC3 Channel Bandwidth: 10MHz	285.10mW
	NR Band 78(Part27Q) _PC3 Channel Bandwidth: 15MHz	291.07mW
	NR Band 78(Part27Q) _PC3 Channel Bandwidth: 20MHz	279.90mW
	NR Band 78(Part27Q) _PC2 Channel Bandwidth:5MHz	461.32mW
	NR Band 78(Part27Q) _PC2 Channel Bandwidth: 10MHz	458.14mW
	NR Band 78(Part27Q) _PC2 Channel Bandwidth: 15MHz	465.59mW
	NR Band 78(Part27Q) _PC2 Channel Bandwidth: 20MHz	464.52mW
EMISSION DESIGNATOR	LTE Band 30 Channel Bandwidth: 5MHz	QPSK: 4M53G7D
		16QAM: 4M53W7D
		64QAM: 4M53W7D
	LTE Band 30 Channel Bandwidth: 10MHz	QPSK: 9M00G7D
		16QAM: 9M03W7D
		64QAM: 9M00W7D
	NR Band 30 Channel Bandwidth: 5MHz	Pi/2BPSK: 4M58G7D
		QPSK: 4M59G7D
		16QAM: 4M55W7D
		64QAM: 4M53W7D
		256QAM:4M56G7D
	NR Band 30 Channel Bandwidth: 10MHz	Pi/2BPSK: 9M00G7D
		QPSK: 8M96G7D
		16QAM: 8M99W7D
		64QAM: 8M97W7D
		256QAM:8M98G7D
	NR Band 70 Channel Bandwidth: 5MHz	Pi/2BPSK: 4M54G7D
		QPSK: 4M53G7D
		16QAM: 4M54W7D
		64QAM: 4M54W7D
		256QAM:4M55G7D
	NR Band 70 Channel Bandwidth: 10MHz	Pi/2BPSK: 9M00G7D
		QPSK: 9M06G7D
		16QAM: 8M99W7D
		64QAM: 8M97W7D
		256QAM:8M98G7D

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	NR Band 70 Channel Bandwidth: 15MHz	Pi/2BPSK: 13M4G7D QPSK: 13M4G7D 16QAM: 13M4W7D 64QAM: 13M4W7D 256QAM:13M5G7D
	NR Band 77(3450-3550)&78 Channel Bandwidth: 10MHz	Pi/2BPSK: 8M63G7D QPSK: 8M62G7D 16QAM: 8M69W7D 64QAM: 8M74W7D 256QAM:8M68G7D
	NR Band 77(3450-3550)&78 Channel Bandwidth: 15MHz	Pi/2BPSK: 13M0G7D QPSK: 12M9G7D 16QAM: 12M9W7D 64QAM: 12M9W7D 256QAM:13M0G7D
	NR Band 77(3450-3550)&78 Channel Bandwidth: 20MHz	Pi/2BPSK: 17M9G7D QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM:17M9G7D
	NR Band 77(3700-3980) Channel Bandwidth: 10MHz	Pi/2BPSK: 8M65G7D QPSK: 8M68G7D 16QAM: 8M64W7D 64QAM: 8M62W7D 256QAM:8M69G7D
	NR Band 77(3700-3980) Channel Bandwidth: 15MHz	Pi/2BPSK: 12M9G7D QPSK: 12M9G7D 16QAM: 12M9W7D 64QAM: 12M9W7D 256QAM:12M9G7D
	NR Band 77(3700-3980) Channel Bandwidth: 20MHz	Pi/2BPSK: 17M9G7D QPSK: 17M9G7D 16QAM: 18M0W7D 64QAM: 17M9W7D 256QAM:17M9G7D
ANTENNA GAI	☒ Provided by client	
	LTE B30	-0.41dBi
	NR BAND N30	-0.41dBi
	NR BAND N70	1.69dBi
	NR BAND N77	2.32dBi
	NR BAND N78	1.4dBi
ANTENNA TYPE	External Antenna	
HW VERSION	SRM813Q-NA_MB_V1.00	
SW VERSION	SRM813Q-NA_2.0.3_EQ100	
I/O PORTS	Refer to user's manual	

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CABLE SUPPLIED	N/A
EXTREME TEMPERATURE	-40°C~85°C
EXTREME VOLTAGE	3.3V~4.35V

NOTE:

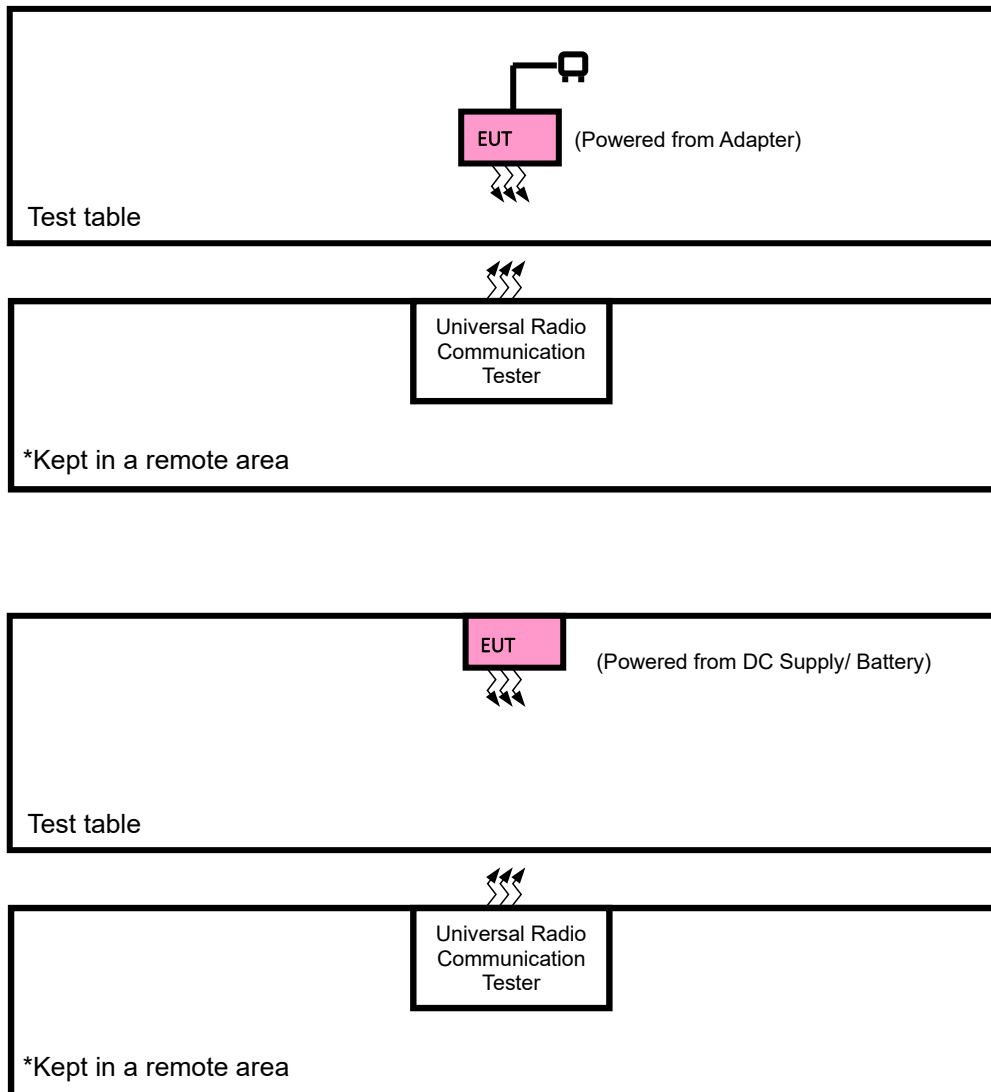
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and two receivers.

MODULATION MODE	TX FUNCTION
LTE	1TX/2RX
5G NR	1TX/2RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.
5. For Band Edge and Emission Mask: The all BW combinations were tested. Combination pairs of the same BW are considered generally equivalent. The RB combinations were selected such that the signal is active closest to the band limit, as this is the worst case.
6. For Out of Band Emissions: The all combination was tested. The highest power RB combination was selected as worst case.

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	Kikusui/JP	PMX18-5A	0000001	N/A
2	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE or 5G NR link
B	EUT + DC Supply with LTE or 5G NR link

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LTE BAND 30						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	27685 to 27735	27685,27710,27735	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		27710	27710	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	27685 to 27735	27685, ,27735	5MHz	QPSK	100 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	27685 to 27735	27685,27710,27735	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset
		27710	27710	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	27685 to 27735	27685,27710,27735	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		27710	27710	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
A	BAND EDGE	27685 to 27735	27685	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			27735	5MHz	QPSK, 16QAM, 64QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		27710	27710	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			27710	10MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB Offset 50 RB / 0 RB Offset 100 RB / 0 RB Offset
A	CONDCUETED EMISSION	27685 to 27735	27685,27710,27735	5MHz	QPSK	1 RB / 0 RB Offset
		27710	27710	10MHz	QPSK	1 RB / 0RB Offset
A	RADIATED EMISSION	27685 to 27735	27685,27710,27735	5MHz	QPSK	1 RB / 0 RB Offset
		27710	27710	10MHz	QPSK	1 RB / 0RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

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NR BAND N30 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	461500 to 462500	461500,462000, 462500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		462000	462000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	461500 to 462500	46150, 462500	Low, High	5MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	461500 to 462500	461500,462000, 462500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		462000	462000	Middle	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	461500 to 462500	461500,462000, 462500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		462000	462000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	461500 to 462500	461500,462000, 462500	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		462000	462000	Middle	10MHz	QPSK	1RB/ 0RB Offset Outer_ Full
A	CONDUCTED EMISSION	461500 to 462500	461500,462000, 462500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		462000	462000	Middle	10MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	461500 to 462500	461500,462000, 462500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		462000	462000	Middle	10MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n30

3. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

Test Report No.: RF260623B005

NR BAND N70 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	339500 to 341500	339500,340500, 341500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		340000 to 341000	340000,340500, 341000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		340500	340500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	339500 to 341500	339500, 341500	Low, High	5MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	339500 to 341500	339500,340500, 341500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		340000 to 341000	340000,340500, 341000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		340500	340500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	339500 to 341500	339500,340500, 341500	Low, Middle, High	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		340000 to 341000	340000,340500, 341000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		340500	340500	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	339500 to 341500	339500,340500, 341500	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		340000 to 341000	340000,340500, 341000	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		340500	340500	Low	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
							Outer_ Full

Test Report No.: RF260623B005

A	CONDUCTED EMISSION	339500 to 341500	339500,340500, 341500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		340000 to 341000	340000,340500, 341000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		340500	340500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	340000 to 341000	340000,340500, 341000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		340500	340500	Middle	15MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n70.

3. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

Test Report No.: RF260623B005

NR BAND N77(3700-3900) MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABLE DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	647000 to 665000	647000,656000, 665000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		647168 to 664832	647168,656000, 664832	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		647334 to 664666	647334,656000, 664666	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	647000 to 665000	647000,656000, 665000	Low, Middle, High	10MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	647000 to 665000	647000,656000, 665000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
							Outer_ Full
		647168 to 664832	647168,656000, 664832	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		647334 to 664666	647334,656000, 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	647000 to 665000	647000,656000, 665000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		647168 to 664832	647168,656000, 664832	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		647334 to 664666	647334,656000, 664666	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	647000 to 665000	647000, 665000	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		647168 to 664832	647168, 664832	Low	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		647334 to 664666	647334, 664666	Low	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full

Test Report No.: RF260623B005

A	CONDUCTED EMISSION	647000 to 665000	647000,656000, 665000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		647168 to 664832	647168,656000, 664832	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		647334 to 664666	647334,656000, 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	647334 to 664666	647334,656000, 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset

- Note:** 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. The test data presented in the report from worst SA_n77(3700-3900).
3. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

Test Report No.: RF260623B005

NR BAND N78 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	630334 to 636332	630334, 633332, 636332	10MHz	QPSK	1 RB / 0 RB offset
		630500 to 636166	630500, 633332, 636166	15MHz	QPSK	1 RB / 0 RB offset
		633332	633332	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
A	RADIATED EMISSION	630334 to 636332	633332	10MHz	QPSK	1 RB / 0 RB offset
		630500 to 636166	633332	15MHz	QPSK	1 RB / 0 RB offset
		630668 to 636000	630668, 633332, 636000	20MHz	QPSK	1 RB / 0 RB offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. NR SA N78 are covered by NR SA N77(3450-3550), Because it is a subset of NR SA N77(3450-3550) with the same output power and supported bandwidths, So the test data please refer to NR SA N77(3450-3550).
3. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

Test Report No.: RF260623B005

NR SA N77(3450-3550) MODE

EUT CONFIGUR E MODE	TEST ITEM	AVAILABL E CP- OFDM CHANNEL	AVAILABLE DFT-S- OFDM CHANNEL	TESTED CHANNE L	CHANNEL BANDWIDT H	MODULATION	MODE(DF T-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	630334 to 636332	630334,633332,636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		630500 to 636166	630500, 633332,636166	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		633332	633332	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENC Y STABILITY	630334 to 636332	630334,633332,636332	Low, Middle, High	10MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	630334 to 636332	630334,633332,636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
							Outer_ Full
		630500 to 636166	630500, 633332,636166	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		633332	633332	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	630334 to 636332	630334,633332,636332	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		630500 to 636166	630500, 633332,636166	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		633332	633332	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	630334 to 636332	630334,636332	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		630500 to 636166	630500,636166	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		633332	633332	High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	BAND EDGE	630500 to 636166	630500,636166	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		633332	633332	High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	BAND EDGE	630500 to 636166	630500,636166	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		633332	633332	High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full

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A	CONDUCTED EMISSION	630334 to 636332	630334,633332,636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		630500 to 636166	630500, 633332,636166	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		633332	633332	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	630668 to 636000	630668,633332,636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n77(3450-3550).

3. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

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TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 3.8V By Battery	Carl Xie
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.3V/ 3.8V/ 4.35V By DC Source	Alan Yu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
BAND EDGE	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
CONDUCTED EMISSION	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
RADIATED EMISSION	23deg. C, 70%RH	AC 120V/60Hz	Carl Xie
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

According to the specific rule Part 27.50(c)(10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to the specific rule Part 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

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

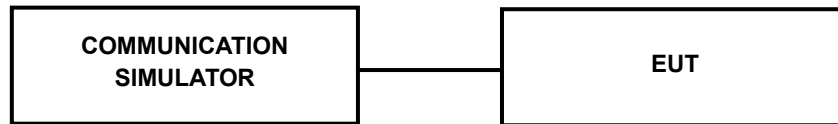
CONDUCTED POWER MEASUREMENT:

- The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

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3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

LTE Band 30						
Band/BW	Modulation	RB Size	RB Offset	Low CH 27685	Mid CH 27710	High CH 27735
				Frequency 2307.5 MHz	Frequency 2310 MHz	Frequency 2312.5 MHz
30/ 5	QPSK	1	0	22.34	22.29	22.26
		1	12	22.42	22.41	22.24
		1	24	22.54	22.37	22.51
		12	0	21.38	21.46	21.34
		12	6	21.52	21.60	21.38
		12	13	21.37	21.24	21.40
		25	0	21.59	21.61	21.57
	16QAM	1	0	21.47	21.47	21.45
		1	12	21.51	21.68	21.48
		1	24	21.55	21.50	21.49
		12	0	20.42	20.30	20.35
		12	6	20.45	20.25	20.25
		12	13	20.33	20.38	20.48
		25	0	20.41	20.47	20.35
	64QAM	1	0	20.40	20.55	20.56
		1	12	20.41	20.51	20.40
		1	24	20.41	20.45	20.46
		12	0	19.42	19.53	19.52
		12	6	19.33	19.33	19.33
		12	13	19.45	19.42	19.56
		25	0	19.43	19.50	19.45

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LTE Band 30						
Band/BW	Modulation	RB Size	RB Offset	/	Mid CH 27710	/
				/	Frequency 2310 MHz	/
30/ 10	QPSK	1	0	/	22.38	/
		1	24	/	22.41	/
		1	49	/	22.57	/
		25	0	/	21.52	/
		25	12	/	21.59	/
		25	25	/	21.40	/
		50	0	/	21.60	/
	16QAM	1	0	/	21.56	/
		1	24	/	21.68	/
		1	49	/	21.64	/
		25	0	/	20.45	/
		25	12	/	20.46	/
		25	25	/	20.50	/
		50	0	/	20.46	/
	64QAM	1	0	/	20.60	/
		1	24	/	20.50	/
		1	49	/	20.55	/
		25	0	/	19.55	/
		25	12	/	19.43	/
		25	25	/	19.58	/
		50	0	/	19.60	/

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n30 (SCS 15kHz)								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel			462000			
		Frequency (MHz)			2310			
10	Pi/2 BPSK	1	1		22.59		0	25.7
		1	26		22.66		0	25.7
		1	50		22.47		0	25.7
		25	0		22.07		0.5	25.2
		25	14		22.31		0	25.7
		25	27		22.07		0.5	25.2
		50	0		22.06		0.5	25.2
	QPSK	1	1		22.75		0	25.7
		1	26		22.54		0	25.7
		1	50		22.63		0	25.7
		25	0		21.63		1	24.7
		25	14		22.49		0	25.7
		25	27		21.50		1	24.7
		50	0		21.70		1	24.7
	16QAM	1	1		21.62		1	24.7
	64QAM	1	1		20.04		2.5	23.2
	256QAM	1	1		18.43		4.5	21.2
BW [MHz]	DFT-s-OFDM	Channel		461500	462000	462500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		2307.5	2310	2312.5		
5	QPSK	1	1	22.71	22.69	22.59	0	25.7

Test Report No.: RF260623B005

n70 (SCS 15kHz)								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel			340500			
		Frequency (MHz)			1702.5			
15	Pi/2 BPSK	1	1		23.06		0	25.7
		1	40		22.95		0	25.7
		1	77		22.98		0	25.7
		36	0		22.60		0.5	25.2
		36	22		22.97		0	25.7
		36	43		22.37		0.5	25.2
		75	0		22.53		0.5	25.2
	QPSK	1	1		23.08		0	25.7
		1	40		22.96		0	25.7
		1	77		22.97		0	25.7
		36	0		22.10		1	24.7
		36	22		23.07		0	25.7
		36	43		22.04		1	24.7
		75	0		22.10		1	24.7
	16QAM	1	1		22.38		1	24.7
	64QAM	1	1		20.81		2.5	23.2
	256QAM	1	1		18.95		4.5	21.2
BW [MHz]	DFT-s-OFDM	Channel		340000	340500	341000	MPR (dB)	Max. Tune-up
		Frequency (MHz)		1700	1702.5	1705		
10	QPSK	1	1	22.90	22.99	22.96	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		339500	340500	341500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		1697.5	1702.5	1707.5		
5	QPSK	1	1	22.99	23.05	22.95	0	25.7

Test Report No.: RF260623B005

Part27Q_n77 (SCS 30kHz)_PC2								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		630668	633332	636000		
		Frequency (MHz)		3460.02	3499.98	3540		
20	Pi/2 BPSK	1	1	24.94	25.00	25.06	0	29.0
		1	26	24.86	24.86	24.99	0	29.0
		1	49	24.83	25.05	25.17	0	29.0
		25	0	24.46	24.46	24.53	0.5	28.5
		25	13	24.98	24.97	25.11	0	29.0
		25	26	24.34	24.41	24.49	0.5	28.5
		50	0	24.40	24.43	24.61	0.5	28.5
	QPSK	1	1	25.08	25.09	25.18	0	29.0
		1	26	25.04	24.99	25.01	0	29.0
		1	49	24.81	25.03	25.12	0	29.0
		25	0	24.04	24.10	24.14	1	28.0
		25	13	25.01	25.04	25.12	0	29.0
		25	26	23.89	24.18	24.24	1	28.0
		50	0	23.97	24.04	24.10	1	28.0
	16QAM	1	1	24.08	24.17	24.00	1	28.0
	64QAM	1	1	22.40	22.36	22.44	2.5	26.5
	256QAM	1	1	20.83	20.74	20.85	4.5	24.5
BW [MHz]	DFT-s-OFDM	Channel		630500	633332	636166	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3457.5	3499.98	3542.49		
15	QPSK	1	1	24.93	24.94	25.04	0	29.0
BW [MHz]	DFT-s-OFDM	Channel		630334	633332	636332	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3455.01	3499.98	3544.98		
10	QPSK	1	1	24.91	24.91	24.98	0	29.0
BW [MHz]	DFT-s-OFDM	Channel		630168	633332	636500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3452.52	3499.98	3547.5		
5	QPSK	1	1	24.89	24.91	25.09	0	29.0

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Part270_n77 (SCS 30kHz)_PC2								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		647334	656000	664666		
		Frequency (MHz)		3710.01	3840	3969.99		
20	Pi/2 BPSK	1	1	27.10	25.35	26.91	0	29.0
		1	26	26.96	25.29	26.83	0	29.0
		1	49	26.99	25.20	26.84	0	29.0
		25	0	26.46	24.72	26.37	0.5	28.5
		25	13	26.98	25.14	26.83	0	29.0
		25	26	26.38	24.78	26.30	0.5	28.5
		50	0	26.50	24.85	26.25	0.5	28.5
	QPSK	1	1	27.14	25.40	26.93	0	29.0
		1	26	27.04	25.17	26.85	0	29.0
		1	49	26.99	25.23	26.89	0	29.0
		25	0	26.23	24.31	25.93	1	28.0
		25	13	27.11	25.37	26.90	0	29.0
		25	26	26.23	24.22	25.84	1	28.0
		50	0	26.08	24.37	25.89	1	28.0
	16QAM	1	1	25.97	24.01	25.74	1	28.0
	64QAM	1	1	24.50	22.57	24.34	2.5	26.5
	256QAM	1	1	23.00	21.05	22.45	4.5	24.5
BW [MHz]	DFT-s-OFDM	Channel		647168	656000	664832	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3707.52	3840	3972.48		
15	QPSK	1	1	26.98	25.36	26.76	0	29.0
BW [MHz]	DFT-s-OFDM	Channel		647000	656000	665000	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3705	3840	3975		
10	QPSK	1	1	26.96	25.19	26.89	0	29.0
BW [MHz]	DFT-s-OFDM	Channel		646834	656000	665166	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3702.51	3840	3977.49		
5	QPSK	1	1	27.07	25.39	26.85	0	29.0

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Part27Q_n77 (SCS 30kHz)_PC3								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		630668	633332	636000		
		Frequency (MHz)		3460.02	3499.98	3540		
20	Pi/2 BPSK	1	1	22.92	23.04	23.05	0	25.7
		1	26	22.92	22.92	22.90	0	25.7
		1	49	22.90	22.96	22.99	0	25.7
		25	0	22.56	22.70	22.75	0.5	25.2
		25	13	23.01	23.05	23.05	0	25.7
		25	26	22.53	22.58	22.63	0.5	25.2
		50	0	22.51	22.65	22.58	0.5	25.2
	QPSK	1	1	23.09	23.19	23.21	0	25.7
		1	26	23.03	23.17	22.94	0	25.7
		1	49	22.89	23.13	23.03	0	25.7
		25	0	22.14	22.22	22.05	1	24.7
		25	13	22.98	23.14	23.18	0	25.7
		25	26	21.92	22.09	22.03	1	24.7
		50	0	22.07	22.10	22.13	1	24.7
	16QAM	1	1	21.86	21.81	21.81	1	24.7
	64QAM	1	1	20.51	20.69	20.66	2.5	23.2
	256QAM	1	1	18.74	18.87	18.92	4.5	21.2
BW [MHz]	DFT-s-OFDM	Channel		630500	633332	636166	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3457.5	3499.98	3542.49		
15	QPSK	1	1	22.98	23.14	23.10	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		630334	633332	636332	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3455.01	3499.98	3544.98		
10	QPSK	1	1	23.05	23.12	23.14	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		630168	633332	636500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3452.52	3499.98	3547.5		
5	QPSK	1	1	22.89	23.13	23.06	0	25.7

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Part270_n77 (SCS 30kHz)_PC3								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		647334	656000	664666		
		Frequency (MHz)		3710.01	3840	3969.99		
20	Pi/2 BPSK	1	1	25.02	23.22	25.05	0	25.7
		1	26	25.11	23.05	24.92	0	25.7
		1	49	25.12	23.19	24.92	0	25.7
		25	0	24.71	22.59	24.62	0.5	25.2
		25	13	25.03	23.10	24.99	0	25.7
		25	26	24.66	22.73	24.52	0.5	25.2
		50	0	24.66	22.47	24.47	0.5	25.2
	QPSK	1	1	25.27	23.34	25.33	0	25.7
		1	26	25.10	23.28	25.16	0	25.7
		1	49	25.13	23.24	25.15	0	25.7
		25	0	24.25	22.26	24.24	1	24.7
		25	13	25.25	23.11	25.30	0	25.7
		25	26	24.19	22.16	24.14	1	24.7
		50	0	24.21	22.12	24.22	1	24.7
	16QAM	1	1	24.06	22.21	24.10	1	24.7
	64QAM	1	1	22.61	20.75	22.81	2.5	23.2
	256QAM	1	1	20.95	19.09	21.10	4.5	21.2
BW [MHz]	DFT-s-OFDM	Channel		647168	656000	664832	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3707.52	3840	3972.48		
15	QPSK	1	1	25.12	23.22	25.18	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		647000	656000	665000	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3705	3840	3975		
10	QPSK	1	1	25.20	23.19	25.31	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		646834	656000	665166	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3702.51	3840	3977.49		
5	QPSK	1	1	25.21	23.17	25.16	0	25.7

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Part27Q_n78 (SCS 30kHz)_PC2								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		630668	633332	636000		
		Frequency (MHz)		3460.02	3499.98	3540		
20	Pi/2 BPSK	1	1	25.08	25.17	25.26	0	29.0
		1	26	24.96	24.97	25.13	0	29.0
		1	49	25.08	24.98	25.16	0	29.0
		25	0	24.60	24.70	24.75	0.5	28.5
		25	13	25.22	25.21	25.05	0	29.0
		25	26	24.78	24.65	24.77	0.5	28.5
		50	0	24.86	24.76	24.89	0.5	28.5
	QPSK	1	1	25.29	25.27	25.30	0	29.0
		1	26	25.20	25.03	25.18	0	29.0
		1	49	25.28	25.06	25.25	0	29.0
		25	0	24.26	24.31	24.26	1	28.0
		25	13	25.10	25.19	25.24	0	29.0
		25	26	24.34	24.22	24.21	1	28.0
		50	0	24.11	24.20	24.27	1	28.0
	16QAM	1	1	24.41	24.26	24.45	1	28.0
	64QAM	1	1	22.67	22.56	22.65	2.5	26.5
	256QAM	1	1	21.12	21.10	21.23	4.5	24.5
BW [MHz]	DFT-s-OFDM	Channel		630500	633332	636166	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3457.5	3499.98	3542.49		
15	QPSK	1	1	25.19	25.28	25.09	0	29.0
BW [MHz]	DFT-s-OFDM	Channel		630334	633332	636332	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3455.01	3499.98	3544.98		
10	QPSK	1	1	25.21	25.14	25.17	0	29.0
BW [MHz]	DFT-s-OFDM	Channel		630168	633332	636500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3452.52	3499.98	3547.5		
5	QPSK	1	1	25.08	25.15	25.24	0	29.0

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Part27Q_n78 (SCS 30kHz)_PC3								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		630668	633332	636000		
		Frequency (MHz)		3460.02	3499.98	3540		
20	Pi/2 BPSK	1	1	23.20	23.06	23.23	0	25.7
		1	26	23.13	22.96	23.14	0	25.7
		1	49	23.16	22.98	23.09	0	25.7
		25	0	22.66	22.69	22.74	0.5	25.2
		25	13	22.98	22.96	23.18	0	25.7
		25	26	22.75	22.51	22.64	0.5	25.2
		50	0	22.58	22.65	22.75	0.5	25.2
	QPSK	1	1	23.23	23.07	23.30	0	25.7
		1	26	23.20	22.95	23.25	0	25.7
		1	49	23.20	22.99	23.24	0	25.7
		25	0	22.05	22.20	22.28	1	24.7
		25	13	23.16	23.01	23.22	0	25.7
		25	26	22.15	22.25	22.31	1	24.7
		50	0	22.21	22.18	22.23	1	24.7
	16QAM	1	1	22.27	22.18	22.30	1	24.7
	64QAM	1	1	20.91	20.72	20.70	2.5	23.2
	256QAM	1	1	19.28	19.08	19.26	4.5	21.2
BW [MHz]	DFT-s-OFDM	Channel		630500	633332	636166	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3457.5	3499.98	3542.49		
15	QPSK	1	1	23.24	22.98	23.15	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		630334	633332	636332	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3455.01	3499.98	3544.98		
10	QPSK	1	1	23.10	22.96	23.15	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		630168	633332	636500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		3452.52	3499.98	3547.5		
5	QPSK	1	1	23.14	22.92	23.25	0	25.7

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EIRP/ERP

EIRP						
LTE BAND 30						
5MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
27685	2307.5	22.54	-0.41	22.13	163.31	0.25
27710	2310	22.41	-0.41	22.00	158.49	0.25
27735	2312.5	22.51	-0.41	22.10	162.18	0.25

5MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
27685	2307.5	21.55	-0.41	21.14	130.02	0.25
27710	2310	21.68	-0.41	21.27	133.97	0.25
27735	2312.5	21.49	-0.41	21.08	128.23	0.25

5MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
27685	2307.5	20.41	-0.41	20.00	100.00	0.25
27710	2310	20.55	-0.41	20.14	103.28	0.25
27735	2312.5	20.56	-0.41	20.15	103.51	0.25

10MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
27710	2310	22.57	-0.41	22.16	164.44	0.25

10MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
27710	2310	21.68	-0.41	21.27	133.97	0.25

10MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
27710	2310	20.60	-0.41	20.19	104.47	0.25

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n30 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-Pi/2 BPSK	462000	2310	22.66	-0.41	22.25	167.88	0.25
10M-QPSK	462000	2310	22.75	-0.41	22.34	171.40	0.25
10M-16QAM	462000	2310	21.62	-0.41	21.21	132.13	0.25
10M-64QAM	462000	2310	20.04	-0.41	19.63	91.83	0.25
10M-256QAM	462000	2310	18.43	-0.41	18.02	63.39	0.25
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	461500	2307.5	22.71	-0.41	22.30	169.82	0.25
	462000	2310	22.69	-0.41	22.28	169.04	0.25
	462500	2312.5	22.59	-0.41	22.18	165.20	0.25

n70 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-Pi/2 BPSK	340500	1702.5	23.06	1.69	24.75	298.54	1
15M-QPSK	340500	1702.5	23.08	1.69	24.77	299.92	1
15M-16QAM	340500	1702.5	22.38	1.69	24.07	255.27	1
15M-64QAM	340500	1702.5	20.81	1.69	22.50	177.83	1
15M-256QAM	340500	1702.5	18.95	1.69	20.64	115.88	1
	Channel						

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BW [MHz] Modulation		Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	340000	1700	22.90	1.69	24.59	287.74	1
	340500	1702.5	22.99	1.69	24.68	293.76	1
	341000	1705	22.96	1.69	24.65	291.74	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	339500	1697.5	22.99	1.69	24.68	293.76	1
	340500	1702.5	23.05	1.69	24.74	297.85	1
	341500	1707.5	22.95	1.69	24.64	291.07	1

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Part27Q_n77 (SCS 30kHz)_PC2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	633332	3499.98	25.05	2.32	27.37	545.76	1
20M-QPSK	633332	3499.98	25.09	2.32	27.41	550.81	1
20M-16QAM	633332	3499.98	24.17	2.32	26.49	445.66	1
20M-64QAM	633332	3499.98	22.36	2.32	24.68	293.76	1
20M-256QAM	633332	3499.98	20.74	2.32	23.06	202.30	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	630500	3457.5	24.93	2.32	27.25	530.88	1
	633332	3499.98	24.94	2.32	27.26	532.11	1
	636166	3542.49	25.04	2.32	27.36	544.50	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	630334	3455.01	24.91	2.32	27.23	528.45	1
	633332	3499.98	24.91	2.32	27.23	528.45	1
	636332	3544.98	24.98	2.32	27.30	537.03	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	630168	3452.52	24.89	2.32	27.21	526.02	1
	633332	3499.98	24.91	2.32	27.23	528.45	1
	636500	3547.5	25.09	2.32	27.41	550.81	1

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Part270_n77 (SCS 30kHz)_PC2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	647334	3710.01	27.10	2.32	29.42	874.98	1
	656000	3840	25.35	2.32	27.67	584.79	1
	664666	3969.99	26.91	2.32	29.23	837.53	1
20M-QPSK	647334	3710.01	27.14	2.32	29.46	883.08	1
	656000	3840	25.40	2.32	27.72	591.56	1
	664666	3969.99	26.93	2.32	29.25	841.40	1
20M-16QAM	647334	3710.01	25.97	2.32	28.29	674.53	1
	656000	3840	24.01	2.32	26.33	429.54	1
	664666	3969.99	25.74	2.32	28.06	639.73	1
20M-64QAM	647334	3710.01	24.50	2.32	26.82	480.84	1
	656000	3840	22.57	2.32	24.89	308.32	1
	664666	3969.99	24.34	2.32	26.66	463.45	1
20M-256QAM	647334	3710.01	23.00	2.32	25.32	340.41	1
	656000	3840	21.05	2.32	23.37	217.27	1
	664666	3969.99	22.45	2.32	24.77	299.92	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	647168	3707.52	26.98	2.32	29.30	851.14	1
	656000	3840	25.36	2.32	27.68	586.14	1
	664832	3972.48	26.76	2.32	29.08	809.10	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	647000	3705	26.96	2.32	29.28	847.23	1
	656000	3840	25.19	2.32	27.51	563.64	1
	665000	3975	26.89	2.32	29.21	833.68	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	646834	3702.51	27.07	2.32	29.39	868.96	1
	656000	3840	25.39	2.32	27.71	590.20	1
	665166	3977.49	26.85	2.32	29.17	826.04	1

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Part270_n77 (SCS 30kHz)_PC3							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	647334	3710.01	25.12	2.32	27.44	554.63	1
	656000	3840	23.22	2.32	25.54	358.10	1
	664666	3969.99	25.05	2.32	27.37	545.76	1
20M-QPSK	647334	3710.01	25.27	2.32	27.59	574.12	1
	656000	3840	23.34	2.32	25.66	368.13	1
	664666	3969.99	25.33	2.32	27.65	582.10	1
20M-16QAM	647334	3710.01	24.06	2.32	26.38	434.51	1
	656000	3840	22.21	2.32	24.53	283.79	1
	664666	3969.99	24.10	2.32	26.42	438.53	1
20M-64QAM	647334	3710.01	22.61	2.32	24.93	311.17	1
	656000	3840	20.75	2.32	23.07	202.77	1
	664666	3969.99	22.81	2.32	25.13	325.84	1
20M-256QAM	647334	3710.01	20.95	2.32	23.27	212.32	1
	656000	3840	19.09	2.32	21.41	138.36	1
	664666	3969.99	21.10	2.32	23.42	219.79	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	647168	3707.52	25.12	2.32	27.44	554.63	1
	656000	3840	23.22	2.32	25.54	358.10	1
	664832	3972.48	25.18	2.32	27.50	562.34	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	647000	3705	25.20	2.32	27.52	564.94	1
	656000	3840	23.19	2.32	25.51	355.63	1
	665000	3975	25.31	2.32	27.63	579.43	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	646834	3702.51	25.21	2.32	27.53	566.24	1
	656000	3840	23.17	2.32	25.49	354.00	1
	665166	3977.49	25.16	2.32	27.48	559.76	1

Test Report No.: RF260623B005

Part27Q_n77 (SCS 30kHz)_PC3							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	633332	3499.98	23.05	2.32	25.37	344.35	1
20M-QPSK	633332	3499.98	23.19	2.32	25.51	355.63	1
20M-16QAM	633332	3499.98	21.81	2.32	24.13	258.82	1
20M-64QAM	633332	3499.98	20.69	2.32	23.01	199.99	1
20M-256QAM	633332	3499.98	18.87	2.32	21.19	131.52	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	630500	3457.5	22.98	2.32	25.30	338.84	1
	633332	3499.98	23.14	2.32	25.46	351.56	1
	636166	3542.49	23.10	2.32	25.42	348.34	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	630334	3455.01	23.05	2.32	25.37	344.35	1
	633332	3499.98	23.12	2.32	25.44	349.95	1
	636332	3544.98	23.14	2.32	25.46	351.56	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	630168	3452.52	22.89	2.32	25.21	331.89	1
	633332	3499.98	23.13	2.32	25.45	350.75	1
	636500	3547.5	23.06	2.32	25.38	345.14	1

Test Report No.: RF260623B005

Part27Q_n78 (SCS 30kHz)_PC2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	633332	3499.98	25.21	1.4	26.61	458.14	1
20M-QPSK	633332	3499.98	25.27	1.4	26.67	464.52	1
20M-16QAM	633332	3499.98	24.26	1.4	25.66	368.13	1
20M-64QAM	633332	3499.98	22.56	1.4	23.96	248.89	1
20M-256QAM	633332	3499.98	21.10	1.4	22.50	177.83	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	630500	3457.5	25.19	1.4	26.59	456.04	1
	633332	3499.98	25.28	1.4	26.68	465.59	1
	636166	3542.49	25.09	1.4	26.49	445.66	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	630334	3455.01	25.21	1.4	26.61	458.14	1
	633332	3499.98	25.14	1.4	26.54	450.82	1
	636332	3544.98	25.17	1.4	26.57	453.94	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	630168	3452.52	25.08	1.4	26.48	444.63	1
	633332	3499.98	25.15	1.4	26.55	451.86	1
	636500	3547.5	25.24	1.4	26.64	461.32	1

Test Report No.: RF260623B005

Part27Q_n78 (SCS 30kHz)_PC3							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	633332	3499.98	23.06	1.4	24.46	279.25	1
20M-QPSK	633332	3499.98	23.07	1.4	24.47	279.90	1
20M-16QAM	633332	3499.98	22.18	1.4	23.58	228.03	1
20M-64QAM	633332	3499.98	20.72	1.4	22.12	162.93	1
20M-256QAM	633332	3499.98	19.08	1.4	20.48	111.69	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	630500	3457.5	23.24	1.4	24.64	291.07	1
	633332	3499.98	22.98	1.4	24.38	274.16	1
	636166	3542.49	23.15	1.4	24.55	285.10	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	630334	3455.01	23.10	1.4	24.50	281.84	1
	633332	3499.98	22.96	1.4	24.36	272.90	1
	636332	3544.98	23.15	1.4	24.55	285.10	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	630168	3452.52	23.14	1.4	24.54	284.45	1
	633332	3499.98	22.92	1.4	24.32	270.40	1
	636500	3547.5	23.25	1.4	24.65	291.74	1

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dBm)

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

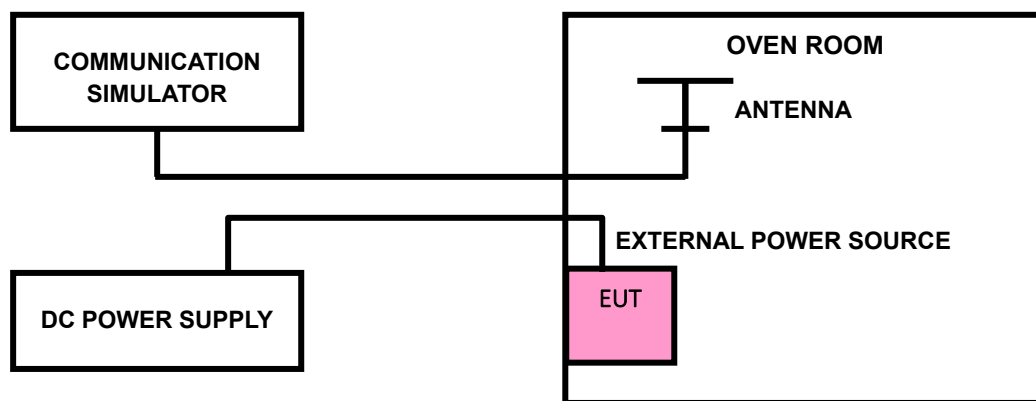
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP



Test Report No.: RF260623B005

3.2.4 TEST RESULTS

Please Refer to Appendix C

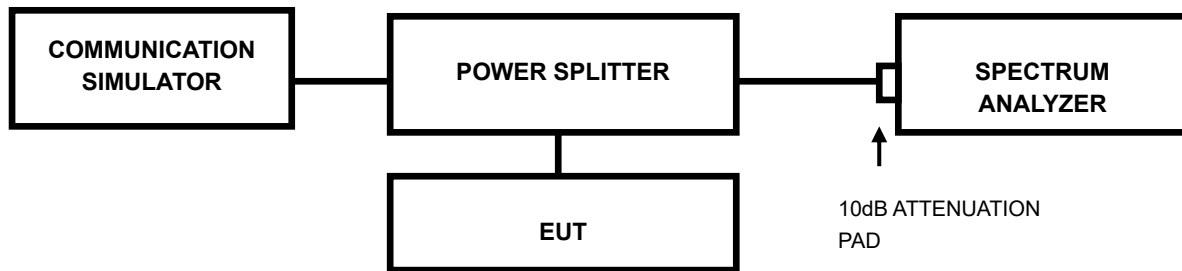
Note: VL = Low voltage(3.3V); VN/NV = Normal voltage(3.8V); VH = High voltage(4.38V);
NT = Normal temperature (25°C)

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

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 power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



Test Report No.: RF260623B005

3.3.4 TEST RESULTS

Please Refer to Appendix C

3.4 BAND EDGE MEASUREMENT

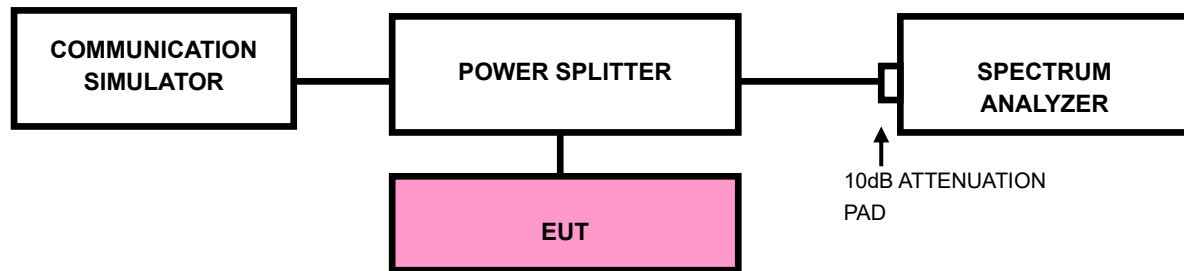
3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

3.4.2 TEST SETUP



Test Report No.: RF260623B005

3.4.3 TEST PROCEDURES

- a) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- b) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
- c) Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- d) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- e) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- f) Select the average power (RMS) display detector.
- g) Set the number of measurement points to ≥ 1001 .
- h) Use auto-coupled sweep time.
- i) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- j) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- k) Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix C

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

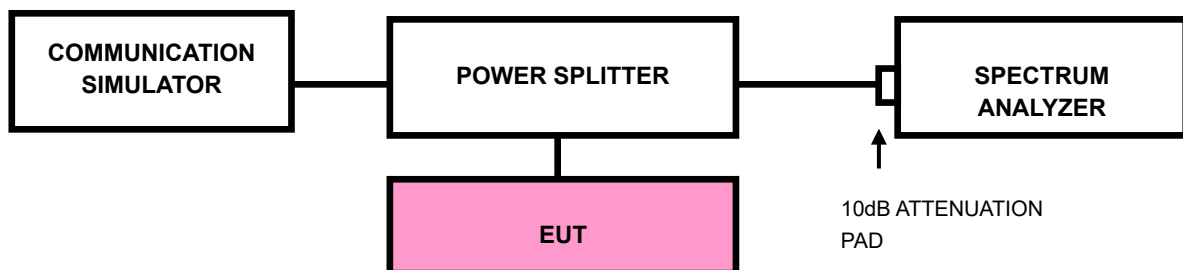
For: LTE Band7C/Band41C

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



Test Report No.: RF260623B005

3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix C

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

For: LTE Band7C/ Band41C

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G.
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

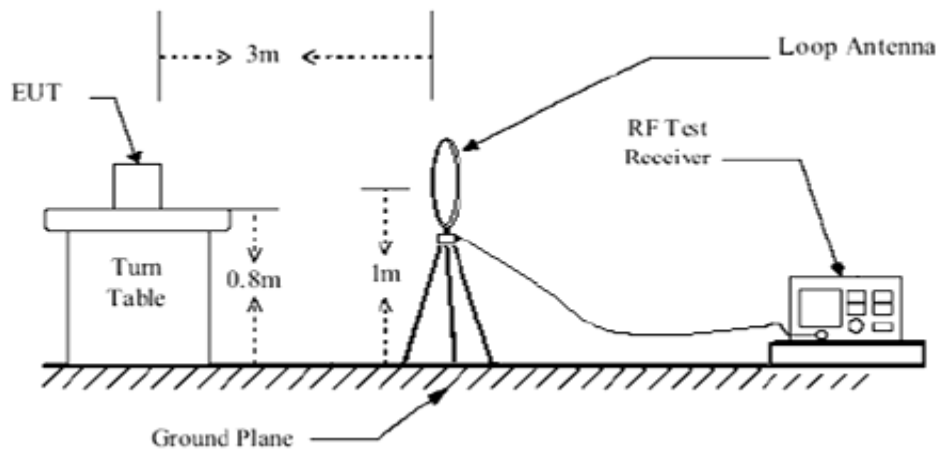
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

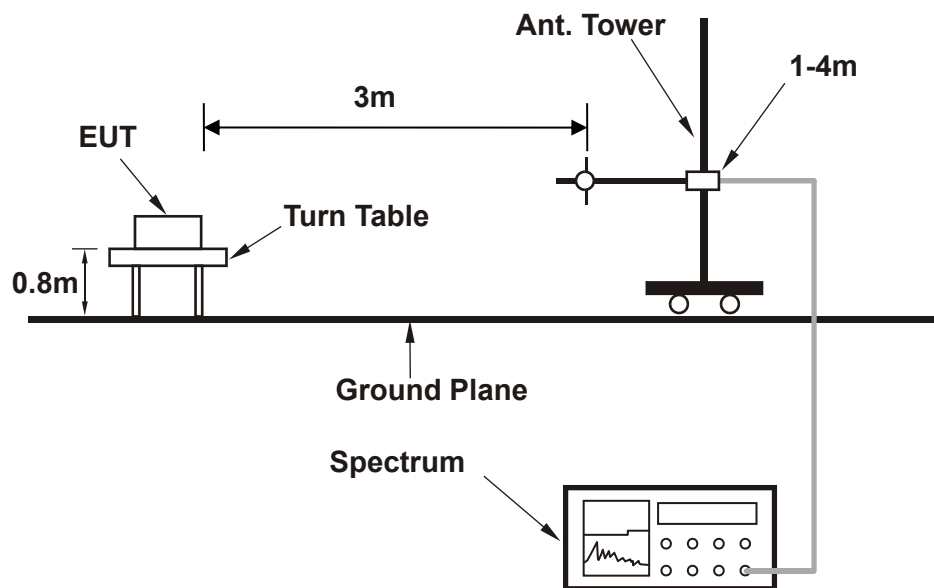
Test Report No.: RF260623B005

3.6.4 TEST SETUP

< Frequency Range below 30MHz >

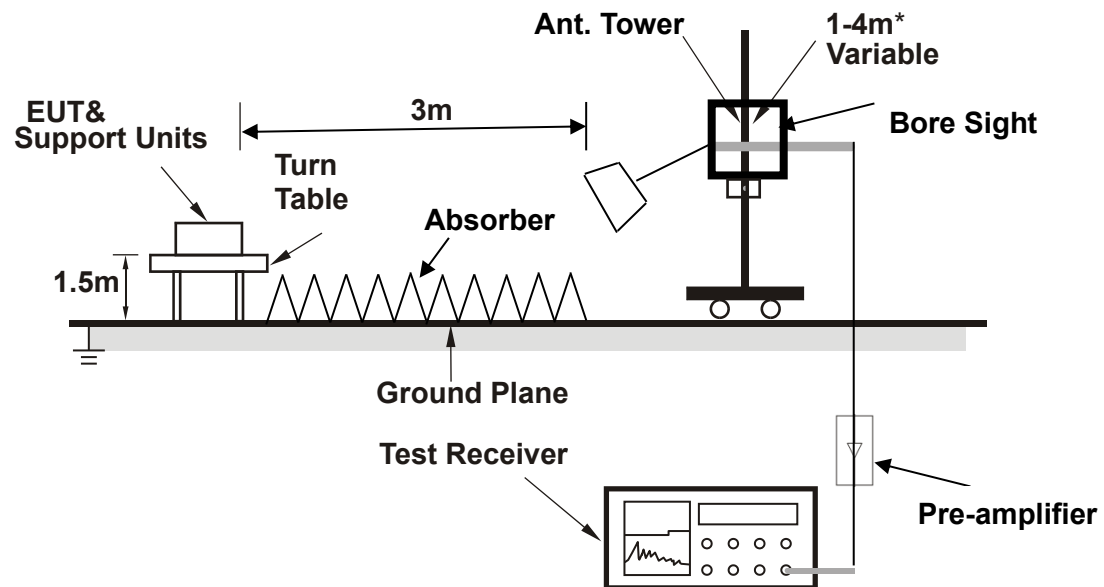


< Frequency Range 30MHz~1GHz >



Test Report No.: RF260623B005

<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Report No.: RF260623B005

3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

MINIPCIE form

BELOW 1GHz WORST-CASE DATA									
NR N77(HPUE)									
CHANNEL BANDWIDTH: 20MHz / QPSK									
MODE		TX channel 656000		FREQUENCY RANGE		30 MHz – 1GHz			
ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH		INPUT POWER		AC 120V 60HZ			
TESTED BY		Carl Xie Xu							
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	32.9106	-58.58	-61.34	-2.76	-13.00	48.34	Horizon	PK	PASS
2	235.2931	-63.46	-68.58	-5.12	-13.00	55.58	Horizon	PK	PASS
3	403.7187	-65.60	-68.46	-2.86	-13.00	55.46	Horizon	PK	PASS
4	599.1158	-66.96	-68.11	-1.15	-13.00	55.11	Horizon	PK	PASS
5	770.4521	-67.55	-66.92	0.63	-13.00	53.92	Horizon	PK	PASS
6	930.5341	-67.74	-64.57	3.17	-13.00	51.57	Horizon	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

Limit Final Test Horizontal

FCC PART 27-Limit

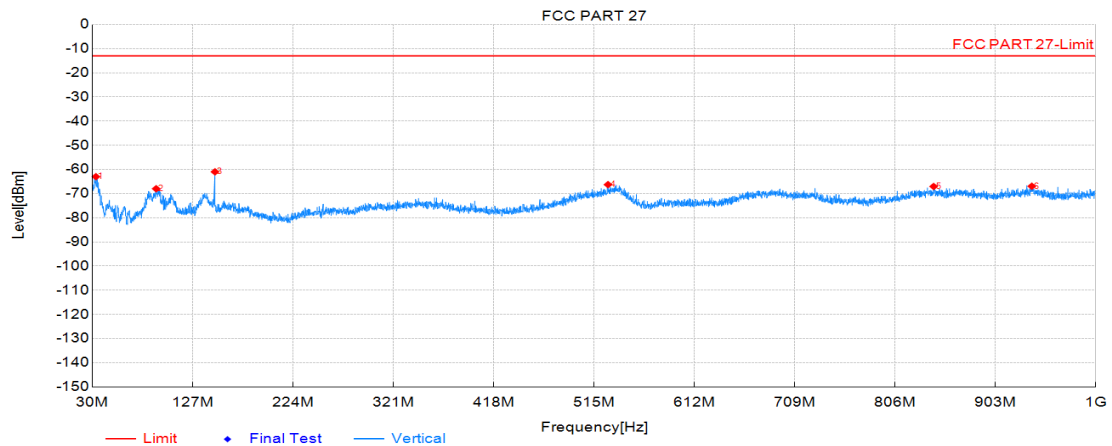
Test Report No.: RF260623B005

MODE	TX channel 656000	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Carl Xie Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	33.4927	-51.82	-62.98	-11.16	-13.00	49.98	Vertical	PK	PASS
2	91.7043	-54.37	-67.96	-13.59	-13.00	54.96	Vertical	PK	PASS
3	148.5577	-51.07	-60.97	-9.90	-13.00	47.97	Vertical	PK	PASS
4	528.4857	-65.56	-66.27	-0.71	-13.00	53.27	Vertical	PK	PASS
5	843.2166	-67.66	-67.03	0.63	-13.00	54.03	Vertical	PK	PASS
6	938.1016	-68.51	-66.94	1.57	-13.00	53.94	Vertical	PK	PASS



Test Report No.: RF260623B005

ABOVE 1GHz

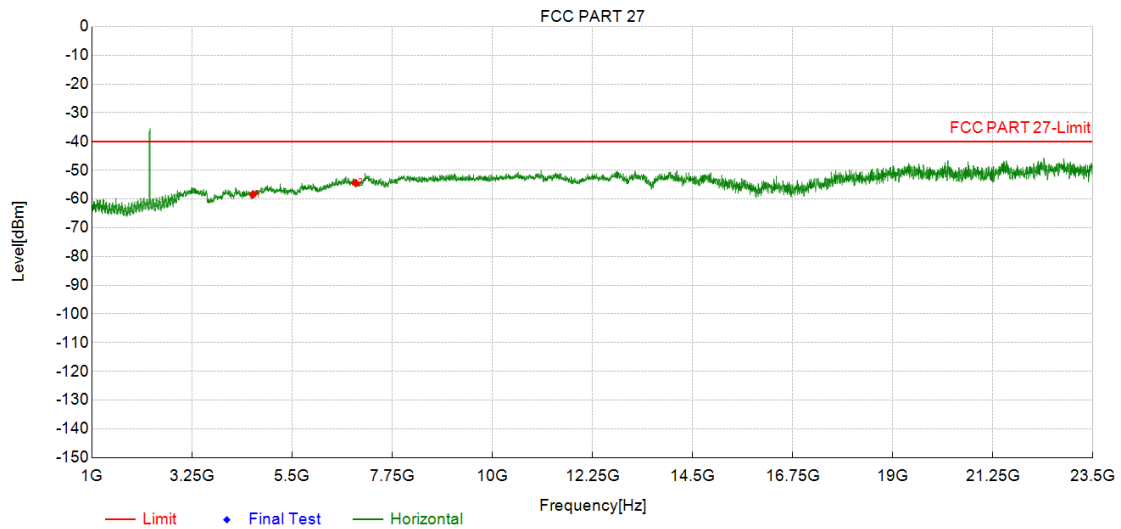
Note: For higher frequency, the emission is too low to be detected.

LTE BAND 30

CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 27685
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4619.824	-60.18	-58.38	1.80	-40.00	18.38	Horizontal	PK	PASS
2	6928.5857	-62.70	-54.46	8.24	-40.00	14.46	Horizontal	PK	PASS



Test Report No.: RF260623B005

CHANNEL BANDWIDTH		5MHz / QPSK		MODE		TX channel 27685			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4615.7231	-60.32	-58.88	1.44	-40.00	18.88	Vertical	PK	PASS
2	6920.3841	-61.86	-53.43	8.43	-40.00	13.43	Vertical	PK	PASS

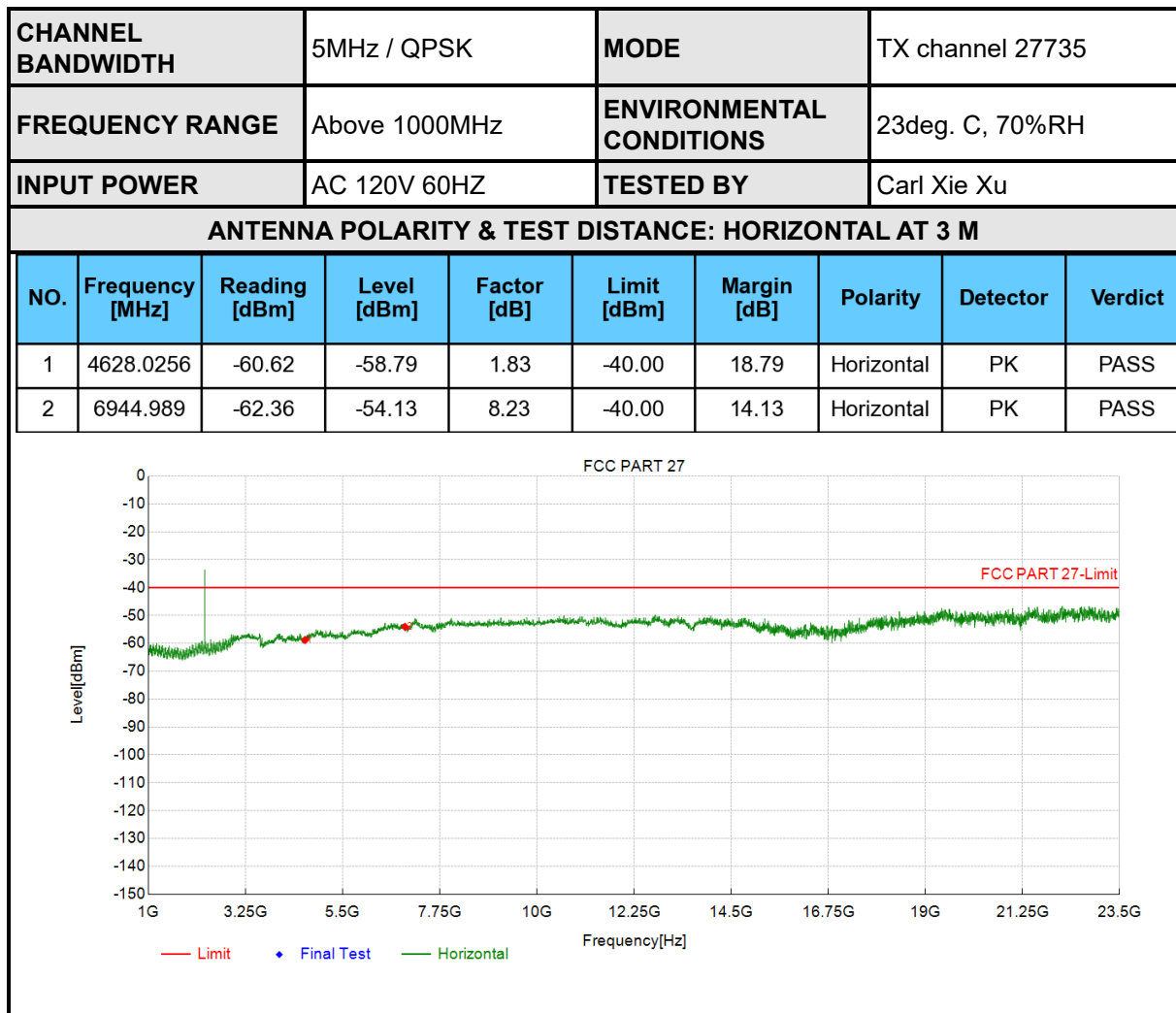
FCC PART 27

Level[dBm]

Frequency[Hz]

Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005



Test Report No.: RF260623B005

CHANNEL BANDWIDTH		5MHz / QPSK		MODE		TX channel 27735			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4628.0256	-60.35	-58.82	1.53	-40.00	18.82	Vertical	PK	PASS
2	6940.8882	-62.64	-54.21	8.43	-40.00	14.21	Vertical	PK	PASS

FCC PART 27

Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005

CHANNEL BANDWIDTH		10MHz / QPSK		MODE		TX channel 27710			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4628.0256	-60.25	-58.42	1.83	-40.00	18.42	Horizontal	PK	PASS
2	6944.989	-62.30	-54.07	8.23	-40.00	14.07	Horizontal	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit ♦ Final Test — Horizontal

Test Report No.: RF260623B005

CHANNEL BANDWIDTH		10MHz / QPSK		MODE		TX channel 27710			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4619.824	-60.98	-59.49	1.49	-40.00	19.49	Vertical	PK	PASS
2	6924.4849	-62.12	-53.69	8.43	-40.00	13.69	Vertical	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit ♦ Final Test — Vertical

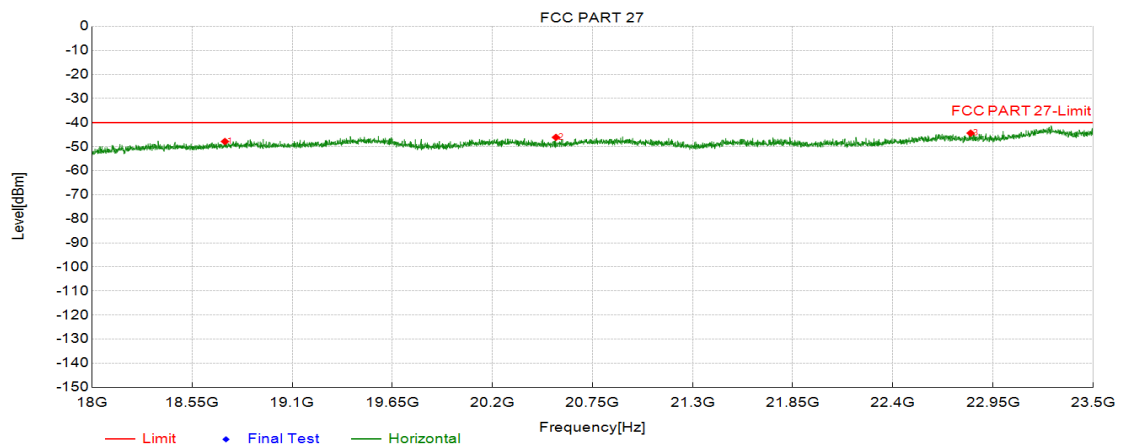
Test Report No.: RF260623B005

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 27685
FREQUENCY RANGE	18G-23.5G	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	18730.546	-56.03	-47.86	8.17	-40.00	7.86	Horizon	PK	PASS
2	20549.209	-55.90	-46.12	9.78	-40.00	6.12	Horizon	PK	PASS
3	22827.765	-58.04	-44.39	13.65	-40.00	4.39	Horizon	PK	PASS



Test Report No.: RF260623B005

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 27685						
FREQUENCY RANGE	18G-23.5G	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	19325.765	-55.43	-47.99	7.44	-40.00	7.99	Vertical	PK	PASS
2	20937.587	-56.63	-47.93	8.70	-40.00	7.93	Vertical	PK	PASS
3	22642.928	-59.14	-47.28	11.86	-40.00	7.28	Vertical	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit • Final Test — Vertical

Test Report No.: RF260623B005

NR N30									
CHANNEL BANDWIDTH		5MHz / QPSK			MODE		TX channel 461500		
FREQUENCY RANGE		Above 1000MHz			ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH		
INPUT POWER		AC 120V 60HZ			TESTED BY		Carl Xie Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4611.6223	-60.60	-58.83	1.77	-40.00	18.83	Horizontal	PK	PASS
2	6920.3841	-62.15	-53.90	8.25	-40.00	13.90	Horizontal	PK	PASS

FCC PART 27

Level[dBm]

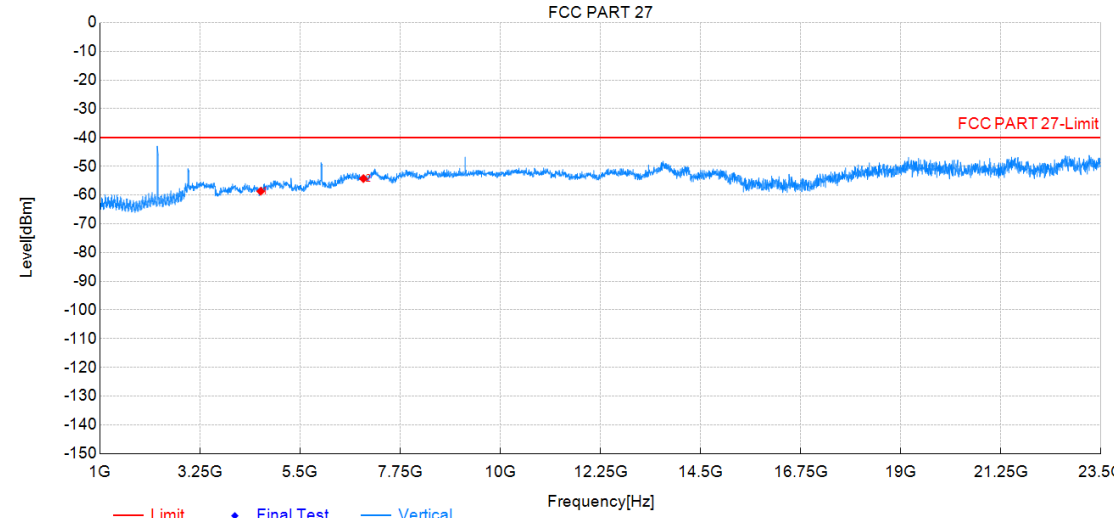
Frequency[Hz]

— Limit • Final Test — Horizontal

Test Report No.: RF260623B005

CHANNEL BANDWIDTH		5MHz / QPSK		MODE		TX channel 461500			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4611.6223	-60.12	-58.68	1.44	-40.00	18.68	Vertical	PK	PASS
2	6920.3841	-62.72	-54.28	8.44	-40.00	14.28	Vertical	PK	PASS

FCC PART 27

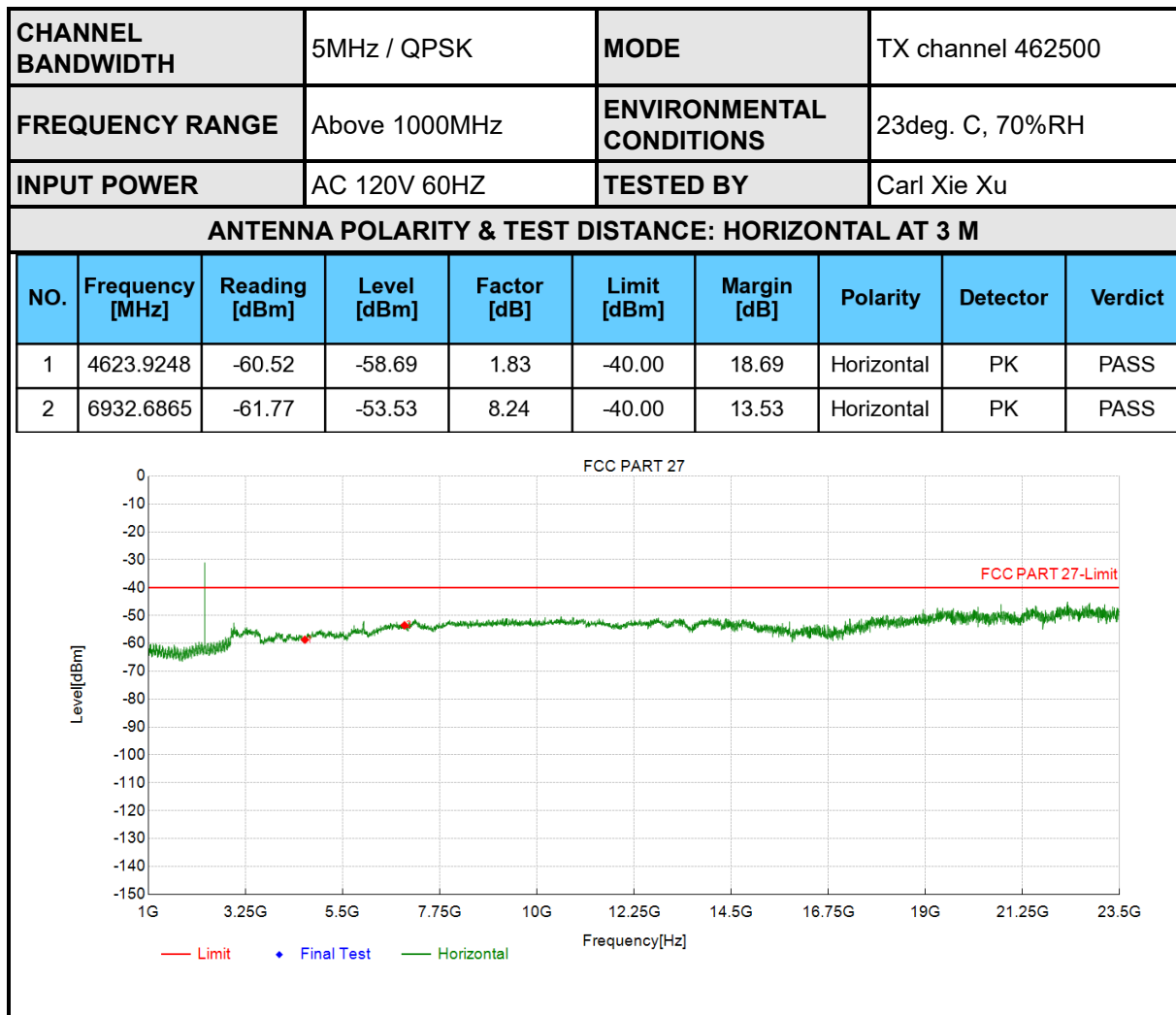


Level[dBm]

Frequency[Hz]

— Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005



Test Report No.: RF260623B005

CHANNEL BANDWIDTH		5MHz / QPSK		MODE		TX channel 462500			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4623.9248	-60.04	-58.53	1.51	-40.00	18.53	Vertical	PK	PASS
2	6932.6865	-61.26	-52.83	8.43	-40.00	12.83	Vertical	PK	PASS

FCC PART 27

Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005

CHANNEL BANDWIDTH		10MHz / QPSK		MODE		TX channel 462000			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4611.6223	-60.60	-58.81	1.79	-40.00	18.81	Horizontal	PK	PASS
2	6920.3841	-62.04	-53.80	8.24	-40.00	13.80	Horizontal	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit ♦ Final Test — Horizontal

FCC PART 27-Limit

Test Report No.: RF260623B005

CHANNEL BANDWIDTH		10MHz / QPSK		MODE		TX channel 462000			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4611.6223	-60.04	-58.62	1.42	-40.00	18.62	Vertical	PK	PASS
2	6920.3841	-62.21	-53.78	8.43	-40.00	13.78	Vertical	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit ♦ Final Test — Vertical

FCC PART 27-Limit

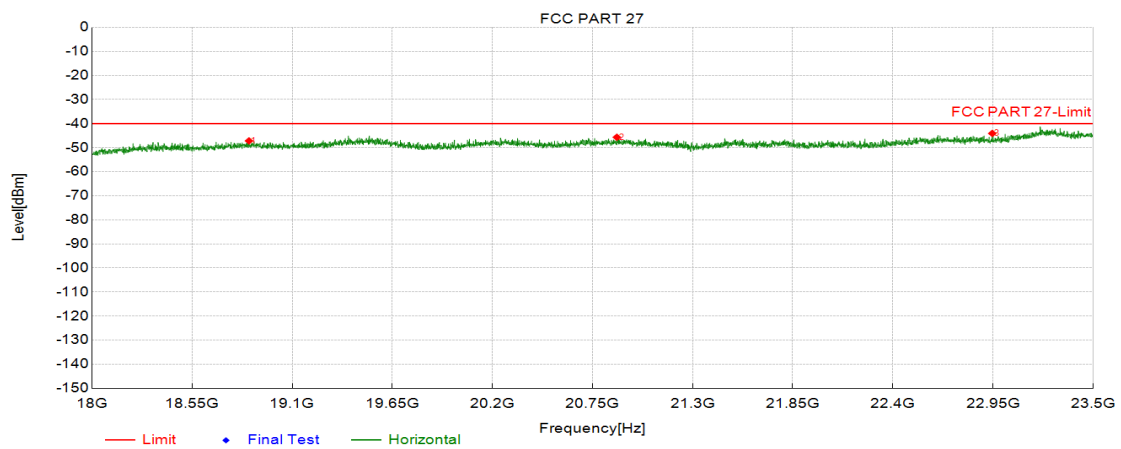
Test Report No.: RF260623B005

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 462500
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	18862.572	-55.47	-47.18	8.29	-40.00	7.18	Horizon	PK	PASS
2	20883.676	-56.23	-45.67	10.56	-40.00	5.67	Horizon	PK	PASS
3	22946.589	-58.21	-44.08	14.13	-40.00	4.08	Horizon	PK	PASS



Test Report No.: RF260623B005

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 462500						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	18715.143	-55.44	-48.61	6.83	-40.00	8.61	Vertical	PK	PASS
2	20707.641	-55.90	-47.23	8.67	-40.00	7.23	Vertical	PK	PASS
3	23277.755	-58.10	-44.95	13.15	-40.00	4.95	Vertical	PK	PASS

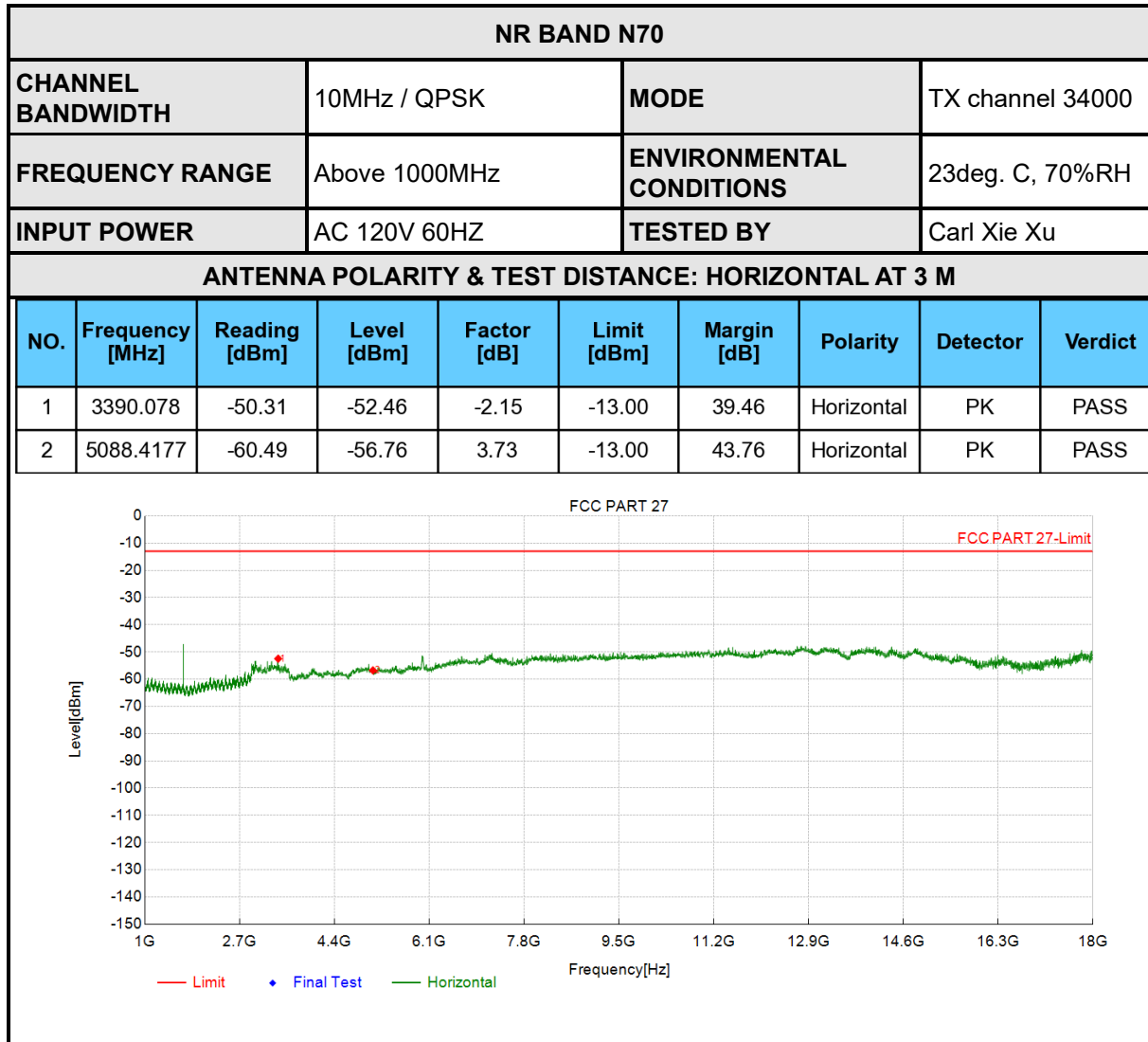
FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit • Final Test — Vertical

Test Report No.: RF260623B005



Test Report No.: RF260623B005

CHANNEL BANDWIDTH		10MHz / QPSK		MODE		TX channel 34000			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3390.078	-49.76	-52.01	-2.25	-13.00	39.01	Vertical	PK	PASS
2	5088.4177	-60.61	-56.65	3.96	-13.00	43.65	Vertical	PK	PASS

FCC PART 27

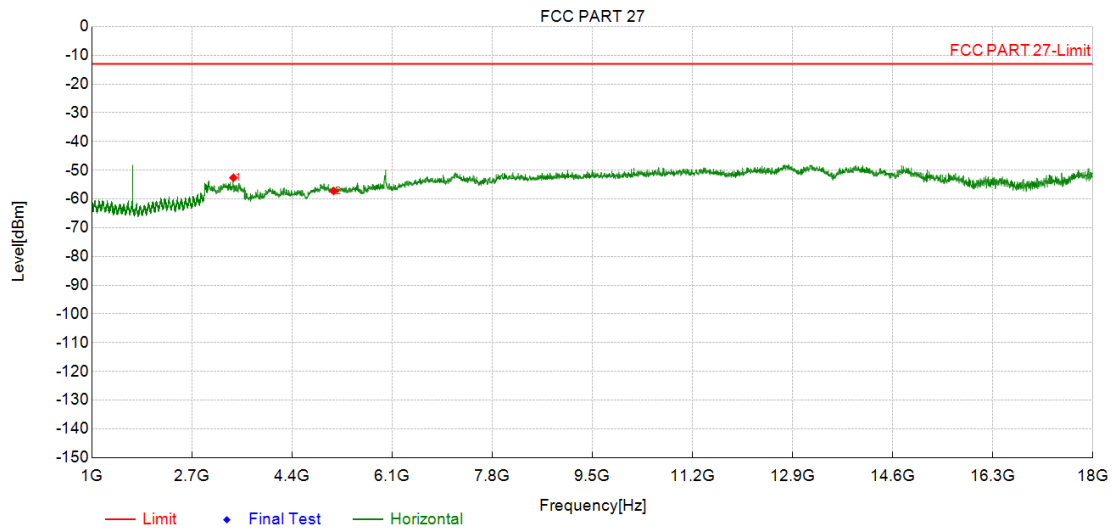
Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 341000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3402.0804	-50.46	-52.60	-2.14	-13.00	39.60	Horizontal	PK	PASS
2	5103.4207	-60.89	-57.19	3.70	-13.00	44.19	Horizontal	PK	PASS



Test Report No.: RF260623B005

CHANNEL BANDWIDTH		10MHz / QPSK		MODE		TX channel 341000			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3402.0804	-49.55	-51.80	-2.25	-13.00	38.80	Vertical	PK	PASS
2	5103.4207	-60.89	-56.93	3.96	-13.00	43.93	Vertical	PK	PASS

FCC PART 27

Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005

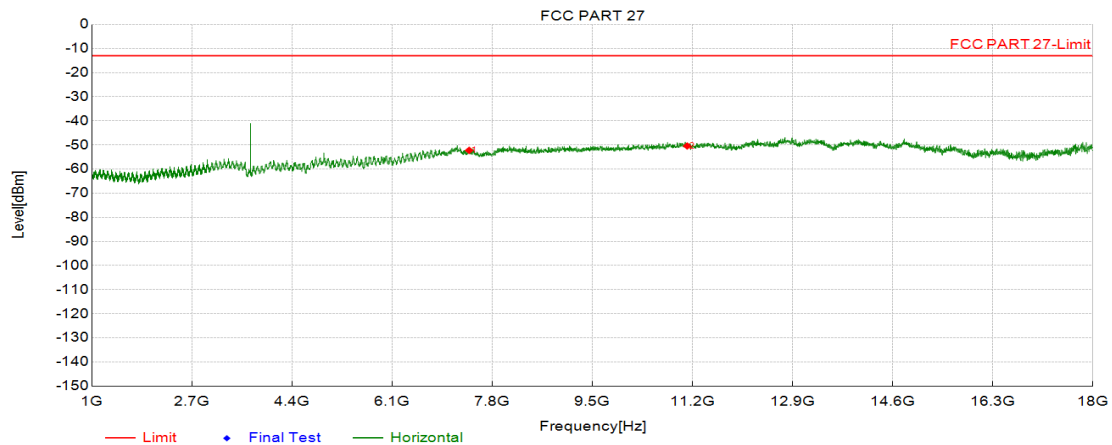
NR Band N770

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 647334
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu
TESTED BY	Carl Xie Xu		

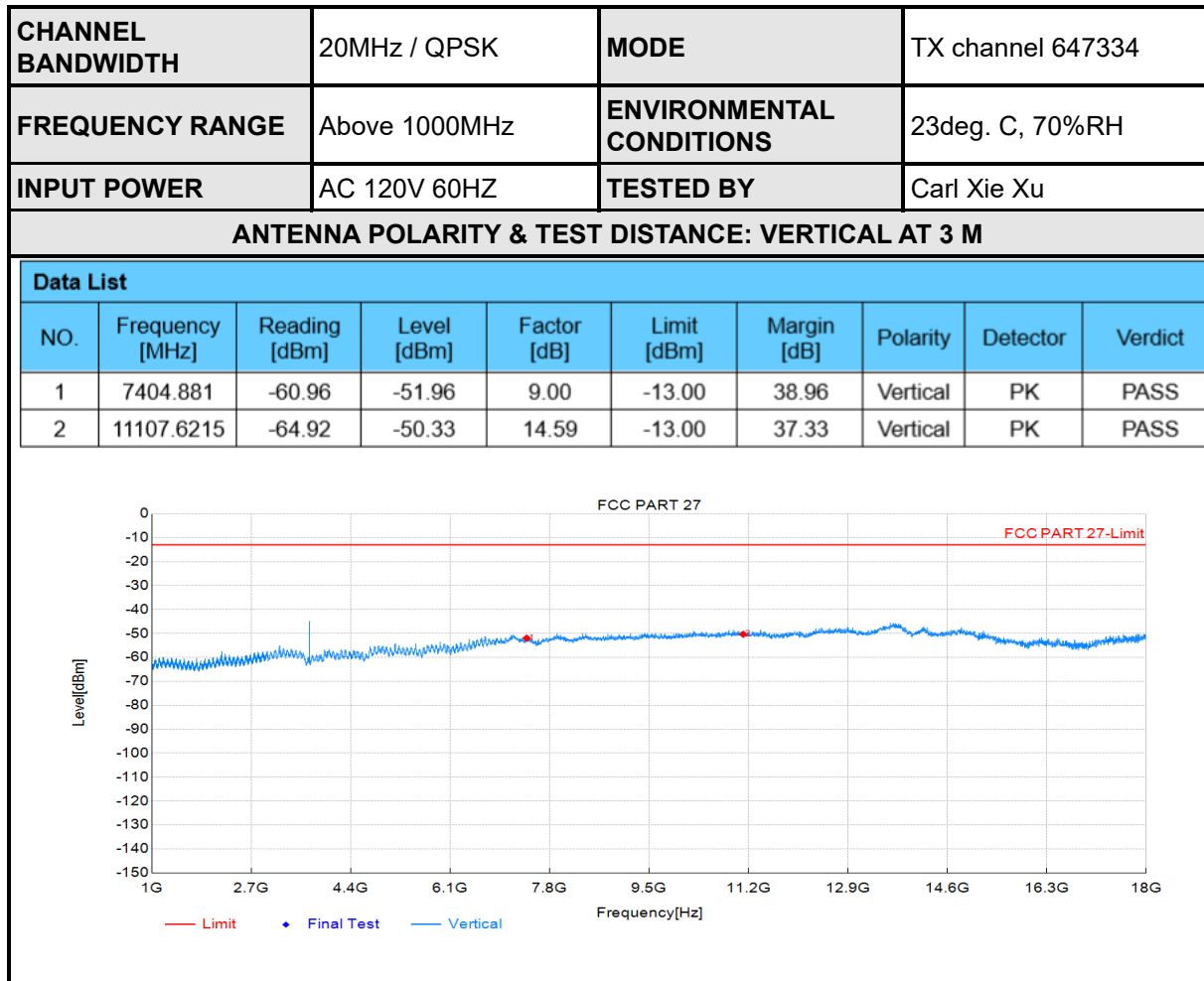
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7404.881	-61.01	-52.22	8.79	-13.00	39.22	Horizon	PK	PASS
2	11107.6215	-64.83	-50.42	14.41	-13.00	37.42	Horizon	PK	PASS



Test Report No.: RF260623B005



Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 656000						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7662.9326	-61.88	-53.08	8.80	-13.00	40.08	Horizon	PK	PASS
2	11494.698	-65.38	-50.13	15.25	-13.00	37.13	Horizon	PK	PASS

FCC PART 27

Legend: — Limit • Final Test — Horizontal

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 656000						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7662.9326	-61.77	-52.75	9.02	-13.00	39.75	Vertical	PK	PASS
2	11494.698	-65.41	-50.59	14.82	-13.00	37.59	Vertical	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 664666						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7920.9842	-61.15	-51.33	9.82	-13.00	38.33	Horizon	PK	PASS
2	11881.776	-65.69	-51.04	14.65	-13.00	38.04	Horizon	PK	PASS

FCC PART 27

Legend: — Limit • Final Test — Horizontal

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 664666						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7920.9842	-61.75	-51.43	10.32	-13.00	38.43	Vertical	PK	PASS
2	11881.776	-65.07	-49.73	15.34	-13.00	36.73	Vertical	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

Legend: — Limit • Final Test — Vertical

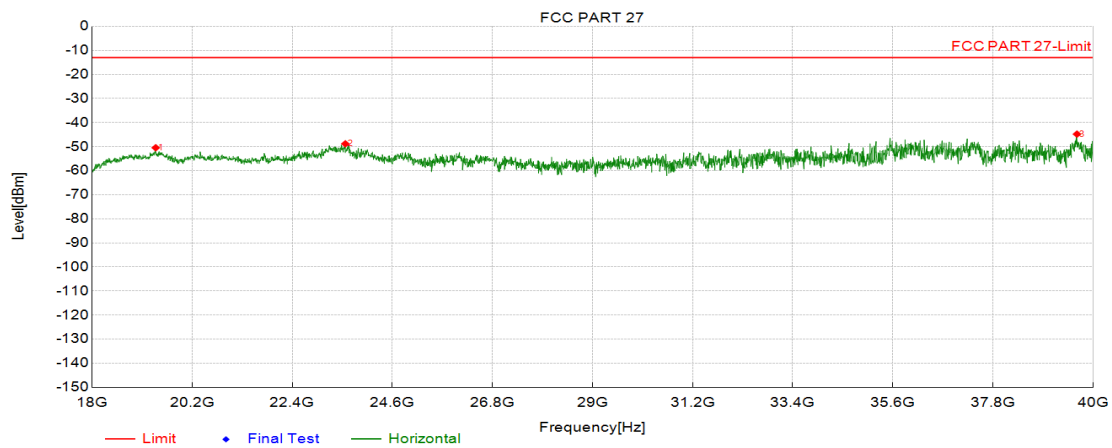
Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 656000
FREQUENCY RANGE	18G-40G	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu

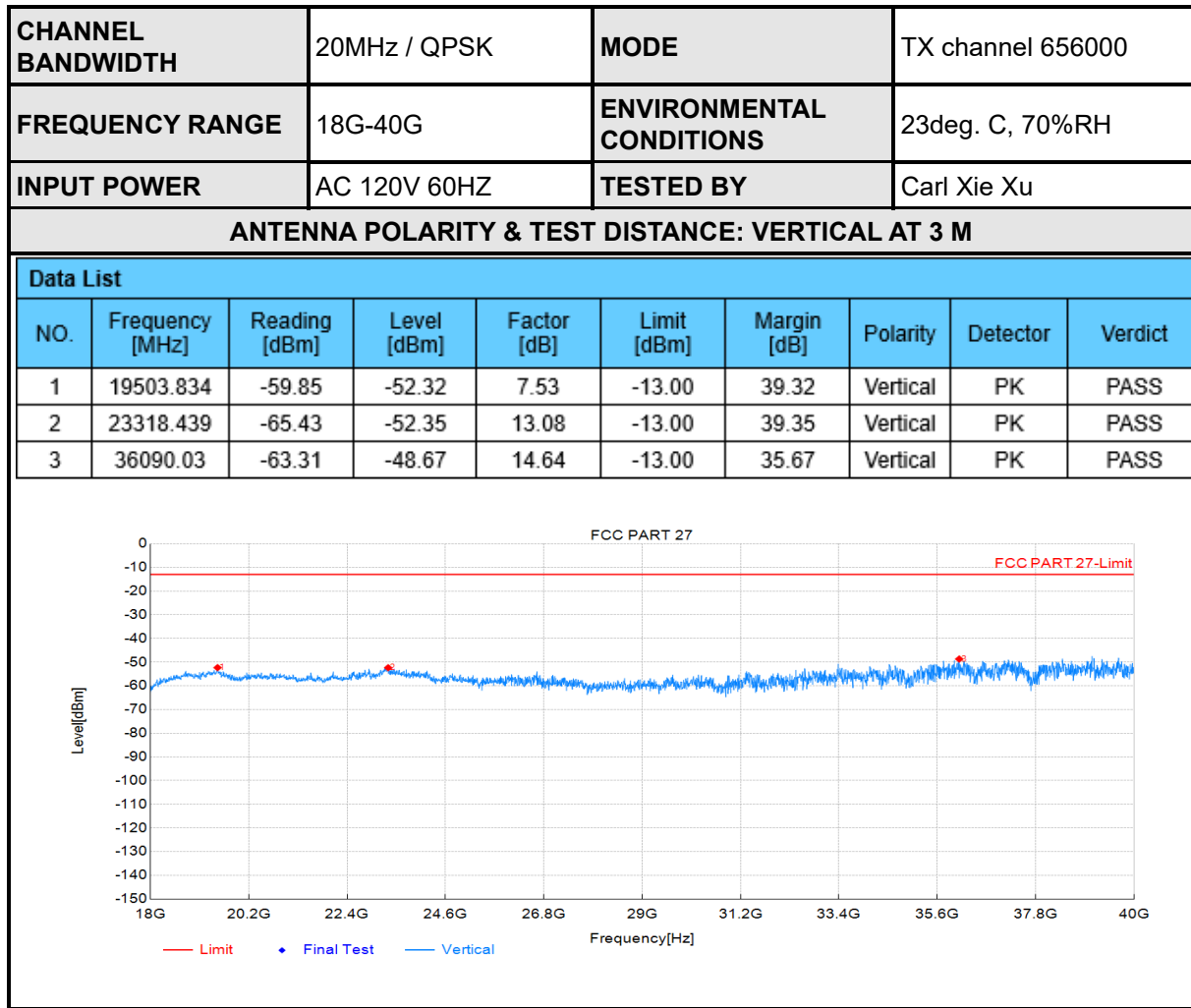
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	19401.133	-59.69	-50.45	9.24	-13.00	37.45	Horizon	PK	PASS
2	23567.856	-65.58	-48.80	16.78	-13.00	35.80	Horizon	PK	PASS
3	39647.882	-62.16	-44.78	17.38	-13.00	31.78	Horizon	PK	PASS



Test Report No.: RF260623B005



Test Report No.: RF260623B005

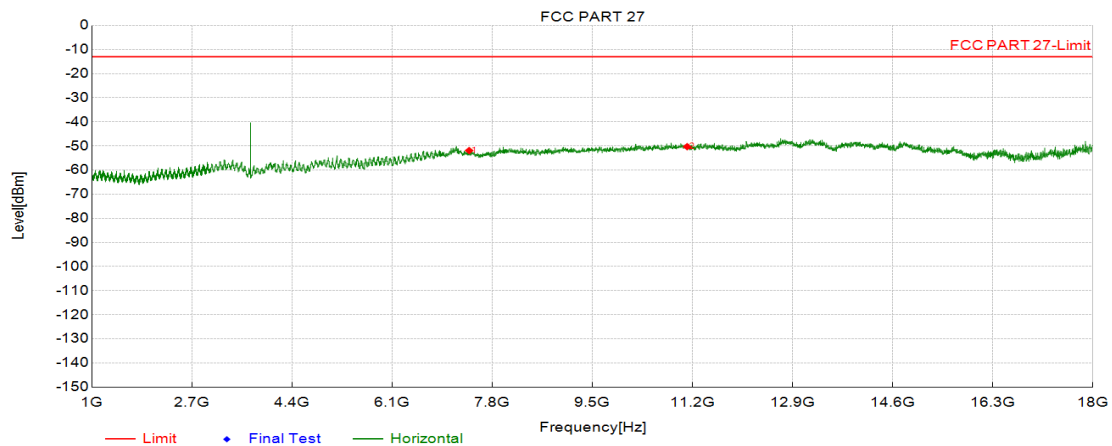
NR Band N770 (HPUE)

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 647334
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu
TESTED BY	Carl Xie Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7404.881	-60.69	-51.90	8.79	-13.00	38.90	Horizon	PK	PASS
2	11107.6215	-64.69	-50.28	14.41	-13.00	37.28	Horizon	PK	PASS



Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 647334						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7404.881	-61.94	-52.93	9.01	-13.00	39.93	Vertical	PK	PASS
2	11107.6215	-65.28	-50.69	14.59	-13.00	37.69	Vertical	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

Limit Final Test Vertical

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 656000						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7662.9326	-62.30	-53.49	8.81	-13.00	40.49	Horizon	PK	PASS
2	11494.698	-65.17	-49.94	15.23	-13.00	36.94	Horizon	PK	PASS

FCC PART 27

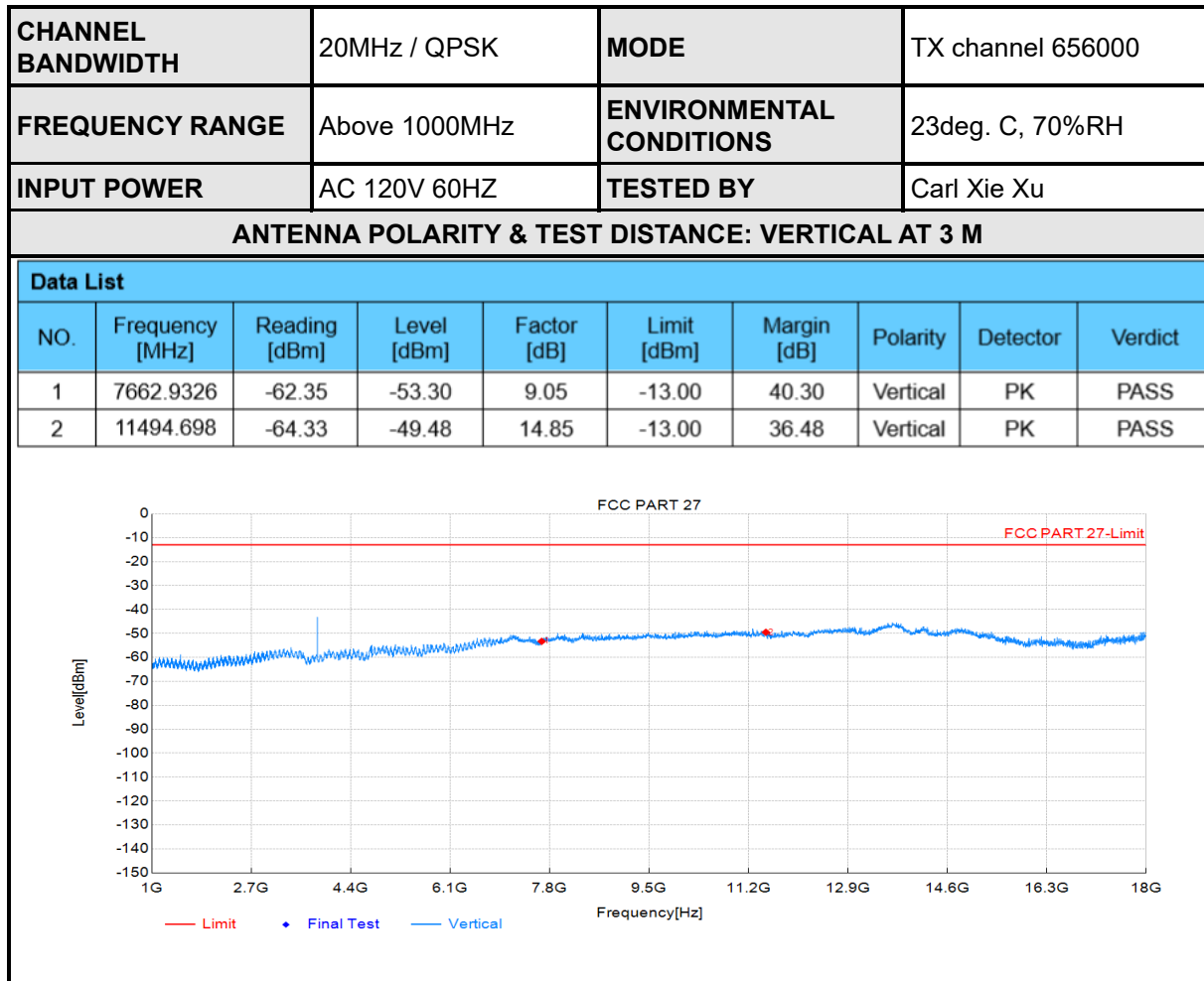
Level[dBm]

Frequency[Hz]

Limit Final Test Horizontal

FCC PART 27-Limit

Test Report No.: RF260623B005



Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 664666						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7920.9842	-62.28	-52.46	9.82	-13.00	39.46	Horizon	PK	PASS
2	11881.776	-65.23	-50.58	14.65	-13.00	37.58	Horizon	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

Limit Final Test Horizontal

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 664666						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7920.9842	-61.89	-51.57	10.32	-13.00	38.57	Vertical	PK	PASS
2	11881.776	-65.01	-49.67	15.34	-13.00	36.67	Vertical	PK	PASS

FCC PART 27

Legend: — Limit ◆ Final Test — Vertical

Test Report No.: RF260623B005

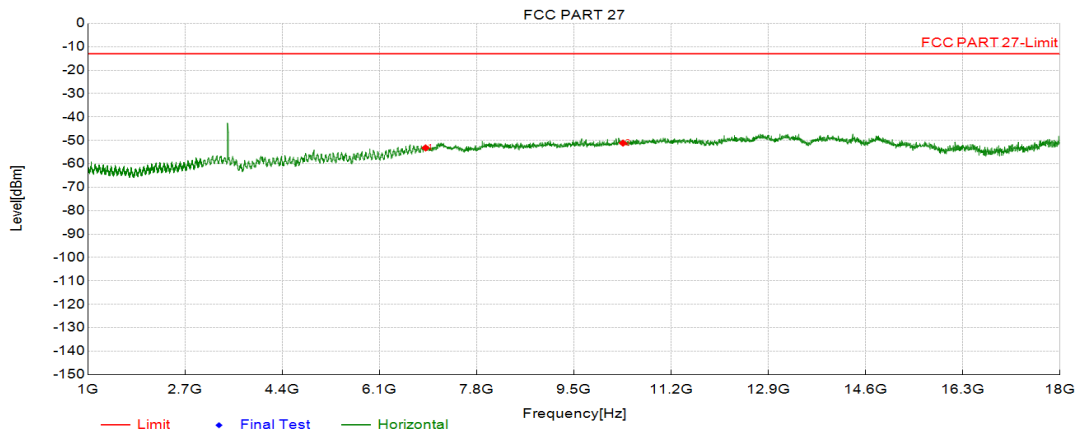
NR Band N77Q

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 630668
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu
TESTED BY	Carl Xie Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6903.7808	-61.46	-53.21	8.25	-13.00	40.21	Horizon	PK	PASS
2	10354.470	-64.26	-51.13	13.13	-13.00	38.13	Horizon	PK	PASS



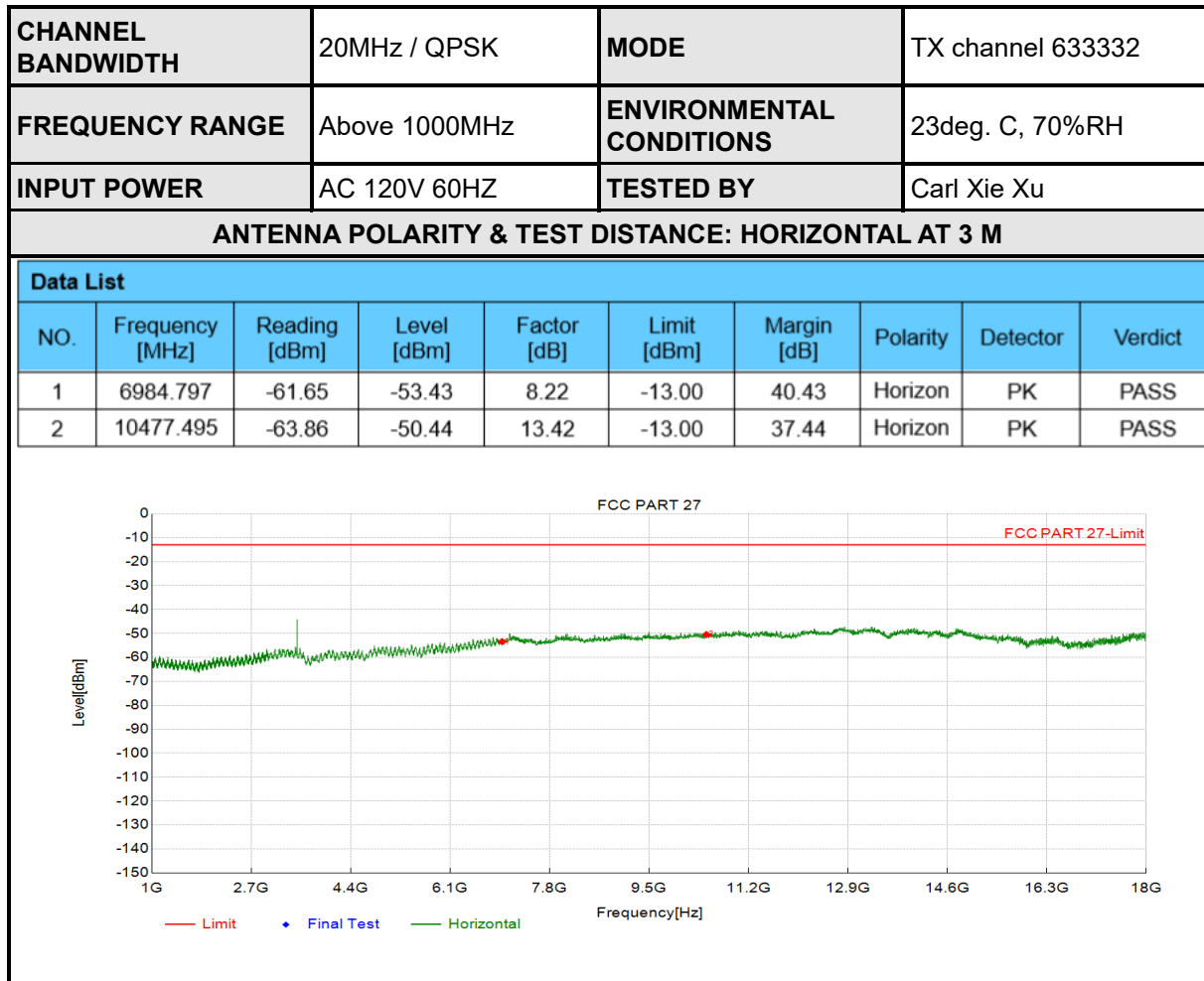
Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 630668						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6903.7808	-61.14	-52.71	8.43	-13.00	39.71	Vertical	PK	PASS
2	10354.470	-63.44	-49.73	13.71	-13.00	36.73	Vertical	PK	PASS

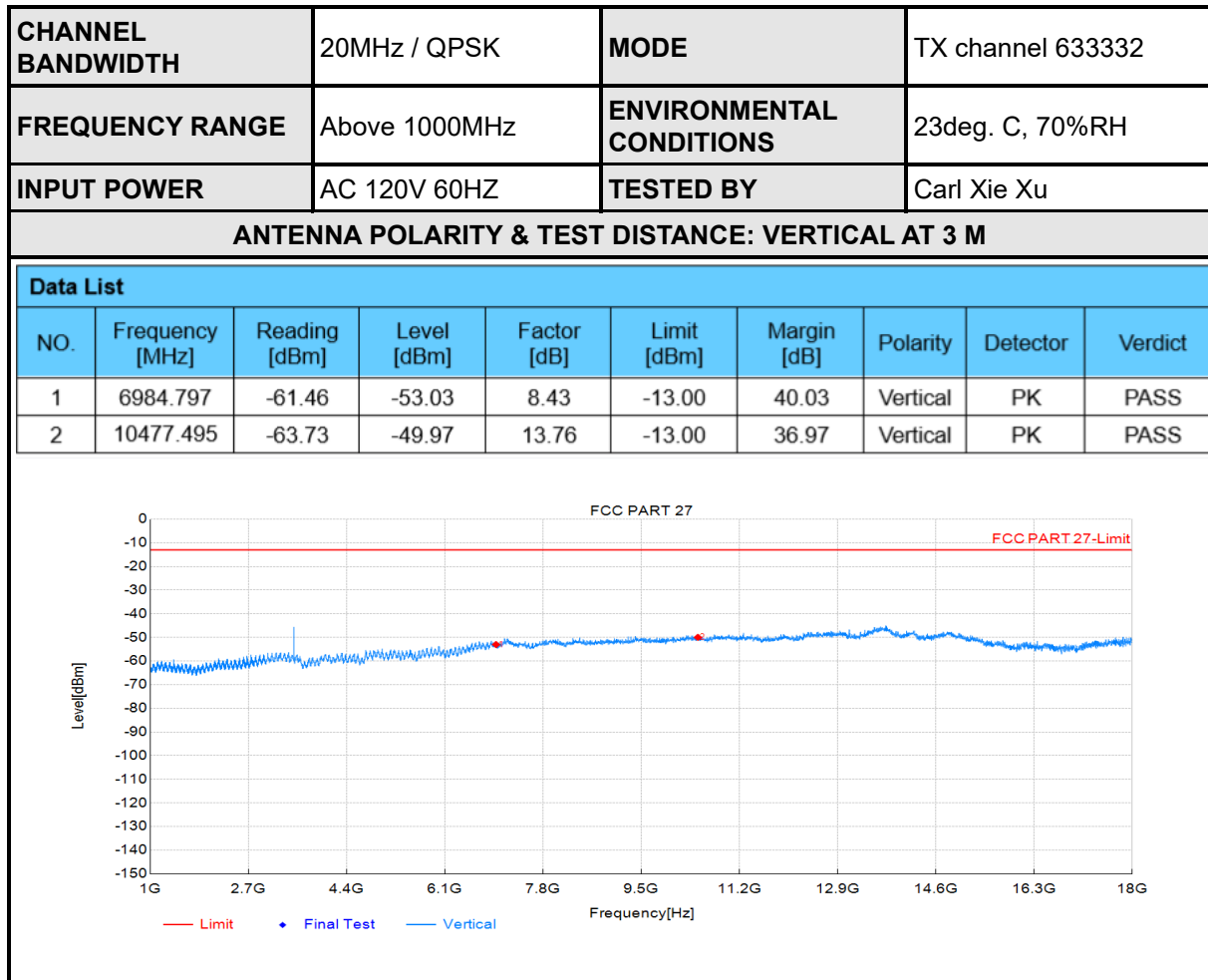
FCC PART 27

Legend: — Limit • Final Test — Vertical

Test Report No.: RF260623B005



Test Report No.: RF260623B005



Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 636000						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7062.8126	-60.79	-52.14	8.65	-13.00	39.14	Horizon	PK	PASS
2	10594.518	-65.11	-51.12	13.99	-13.00	38.12	Horizon	PK	PASS

FCC PART 27

Level [dBm]

Frequency [Hz]

Limit Final Test Horizontal

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 636000						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7062.8126	-61.08	-52.22	8.86	-13.00	39.22	Vertical	PK	PASS
2	10594.518	-64.77	-50.89	13.88	-13.00	37.89	Vertical	PK	PASS

FCC PART 27

Legend: — Limit ♦ Final Test — Vertical

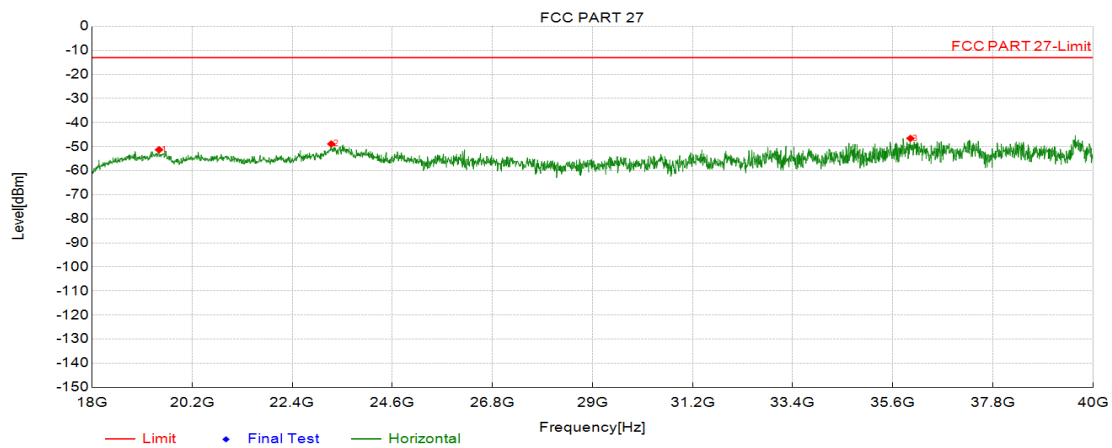
Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 630668
FREQUENCY RANGE	18G-40G	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	19474.491	-60.60	-51.28	9.32	-13.00	38.28	Horizon	PK	PASS
2	23259.753	-64.61	-48.87	15.74	-13.00	35.87	Horizon	PK	PASS
3	35987.329	-63.41	-46.58	16.83	-13.00	33.58	Horizon	PK	PASS



Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 630668						
FREQUENCY RANGE	18G-40G	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	19408.469	-61.32	-53.93	7.39	-13.00	40.93	Vertical	PK	PASS
2	23259.753	-65.81	-52.64	13.17	-13.00	39.64	Vertical	PK	PASS
3	36031.343	-62.36	-47.87	14.49	-13.00	34.87	Vertical	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit • Final Test — Vertical

FCC PART 27-Limit

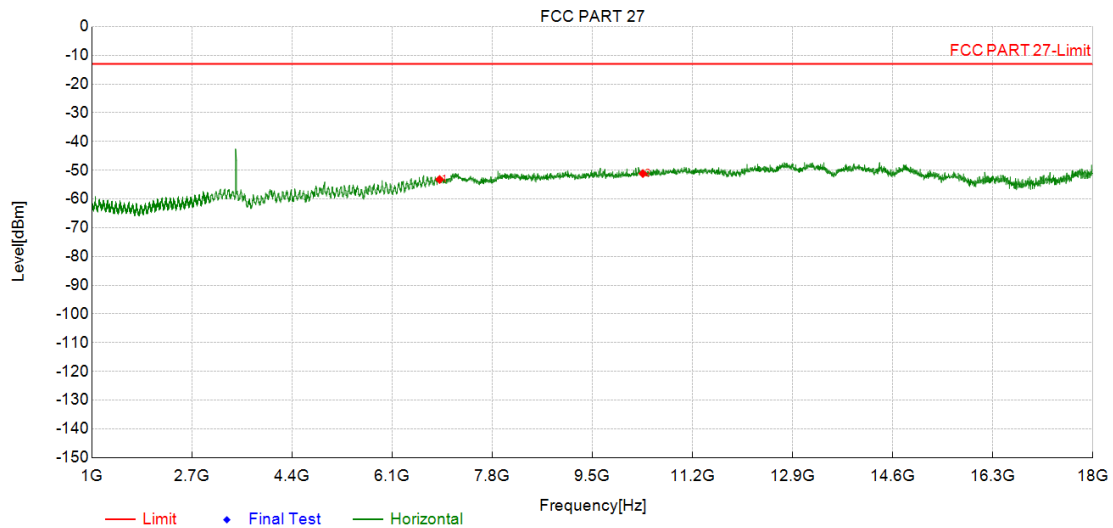
Test Report No.: RF260623B005

NR Band N77Q(HPUE)

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 630668
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu
TESTED BY	Carl Xie Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6903.7808	-61.46	-53.21	8.25	-13.00	40.21	Horizontal	PK	PASS
2	10354.4709	-64.26	-51.13	13.13	-13.00	38.13	Horizontal	PK	PASS



Test Report No.: RF260623B005

CHANNEL BANDWIDTH		20MHz / QPSK		MODE		TX channel 630668			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6903.7808	-61.14	-52.71	8.43	-13.00	39.71	Vertical	PK	PASS
2	10354.4709	-63.44	-49.73	13.71	-13.00	36.73	Vertical	PK	PASS

FCC PART 27

Legend: — Limit ♦ Final Test — Vertical

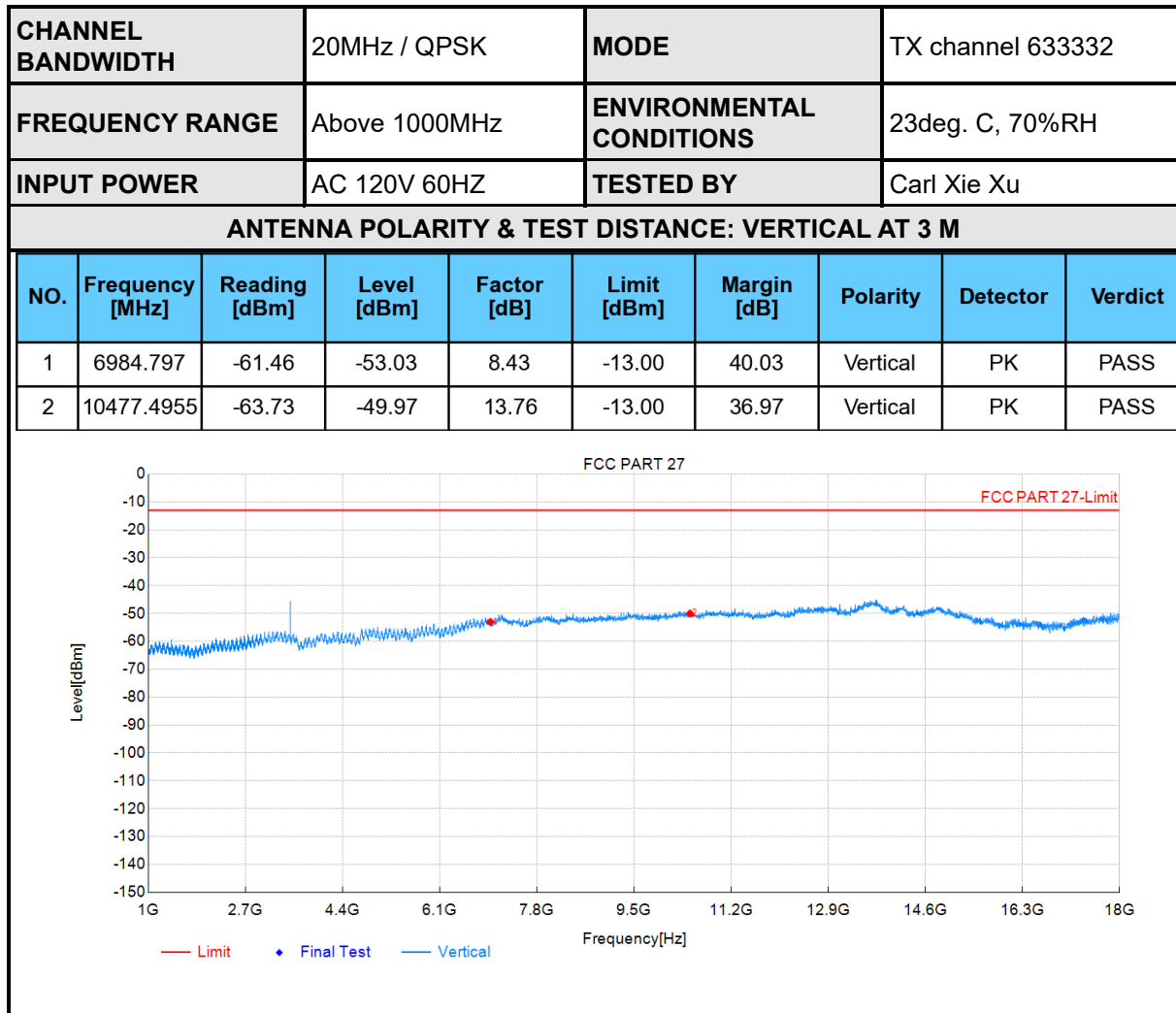
Test Report No.: RF260623B005

CHANNEL BANDWIDTH		20MHz / QPSK		MODE		TX channel 633332			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6984.797	-61.65	-53.43	8.22	-13.00	40.43	Horizontal	PK	PASS
2	10477.4955	-63.86	-50.44	13.42	-13.00	37.44	Horizontal	PK	PASS

FCC PART 27

Legend: — Limit • Final Test — Horizontal

Test Report No.: RF260623B005



Test Report No.: RF260623B005

CHANNEL BANDWIDTH		20MHz / QPSK		MODE		TX channel 636000			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7062.8126	-59.95	-51.30	8.65	-13.00	38.30	Horizontal	PK	PASS
2	10594.5189	-64.85	-50.86	13.99	-13.00	37.86	Horizontal	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit ♦ Final Test — Horizontal

Test Report No.: RF260623B005

CHANNEL BANDWIDTH		20MHz / QPSK		MODE		TX channel 636000			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7062.8126	-62.04	-53.19	8.85	-13.00	40.19	Vertical	PK	PASS
2	10594.5189	-64.43	-50.55	13.88	-13.00	37.55	Vertical	PK	PASS

FCC PART 27

Legend: — Limit ♦ Final Test — Vertical

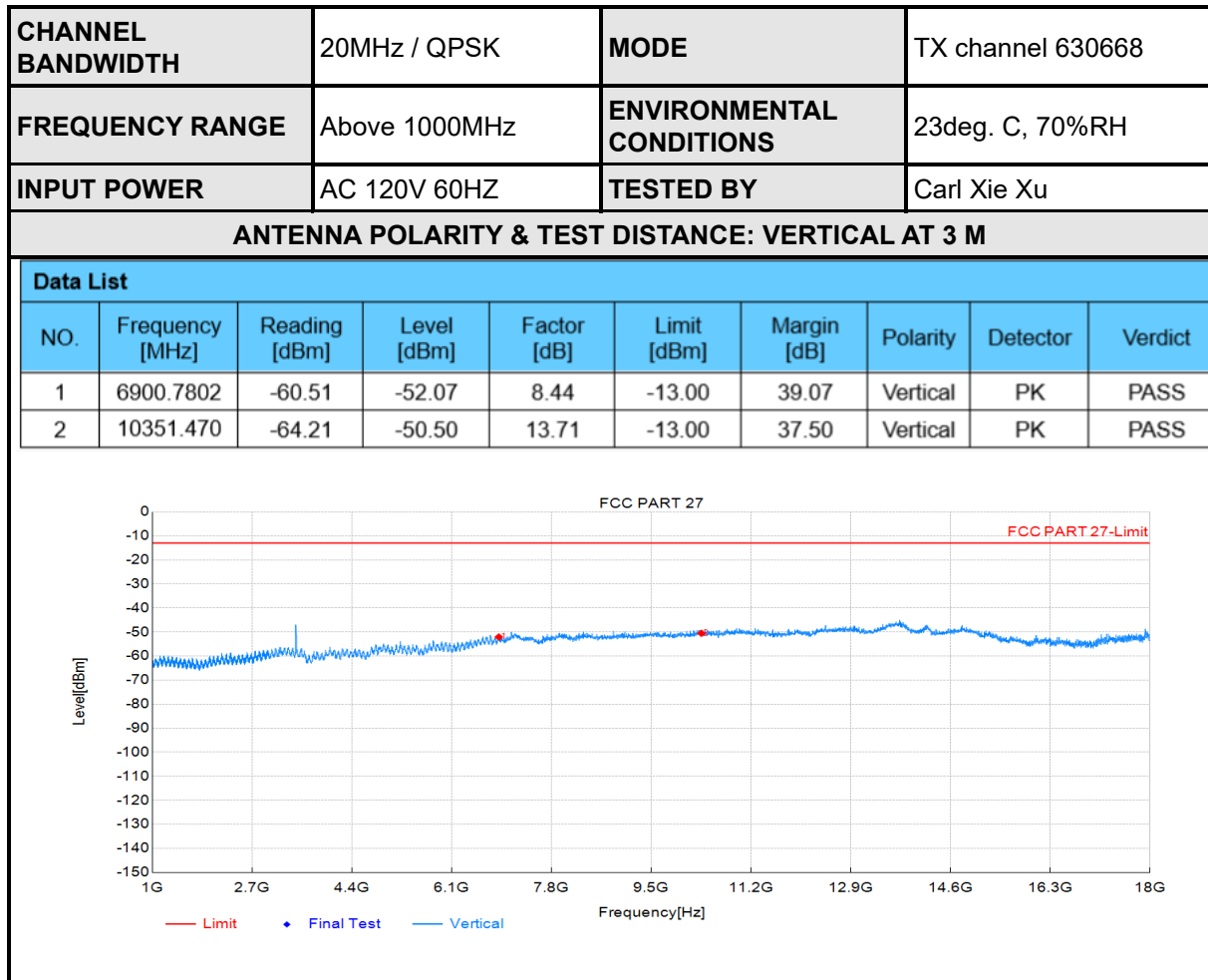
Test Report No.: RF260623B005

NR Band N78									
CHANNEL BANDWIDTH	20MHz / QPSK		MODE		TX channel 630668				
FREQUENCY RANGE	Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH				
INPUT POWER	AC 120V 60HZ		TESTED BY		Carl Xie Xu				
TESTED BY	Carl Xie Xu								
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6900.7802	-60.71	-52.46	8.25	-13.00	39.46	Horizon	PK	PASS
2	10351.470	-64.16	-51.02	13.14	-13.00	38.02	Horizon	PK	PASS

FCC PART 27

Legend: — Limit, • Final Test, — Horizontal

Test Report No.: RF260623B005



Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 633332						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6984.797	-61.90	-53.67	8.23	-13.00	40.67	Horizon	PK	PASS
2	10477.495	-63.85	-50.43	13.42	-13.00	37.43	Horizon	PK	PASS

FCC PART 27

Legend: — Limit ♦ Final Test — Horizontal

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 633332						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6984.797	-62.33	-53.90	8.43	-13.00	40.90	Vertical	PK	PASS
2	10477.495	-63.75	-49.99	13.76	-13.00	36.99	Vertical	PK	PASS

FCC PART 27

Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 636000						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7062.8126	-60.19	-51.54	8.65	-13.00	38.54	Horizon	PK	PASS
2	10594.518	-64.48	-50.47	14.01	-13.00	37.47	Horizon	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

Limit Final Test Horizontal

FCC PART 27-Limit

Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 636000						
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7062.8126	-60.73	-51.87	8.86	-13.00	38.87	Vertical	PK	PASS
2	10594.518	-64.33	-50.45	13.88	-13.00	37.45	Vertical	PK	PASS

FCC PART 27

Legend: — Limit • Final Test — Vertical

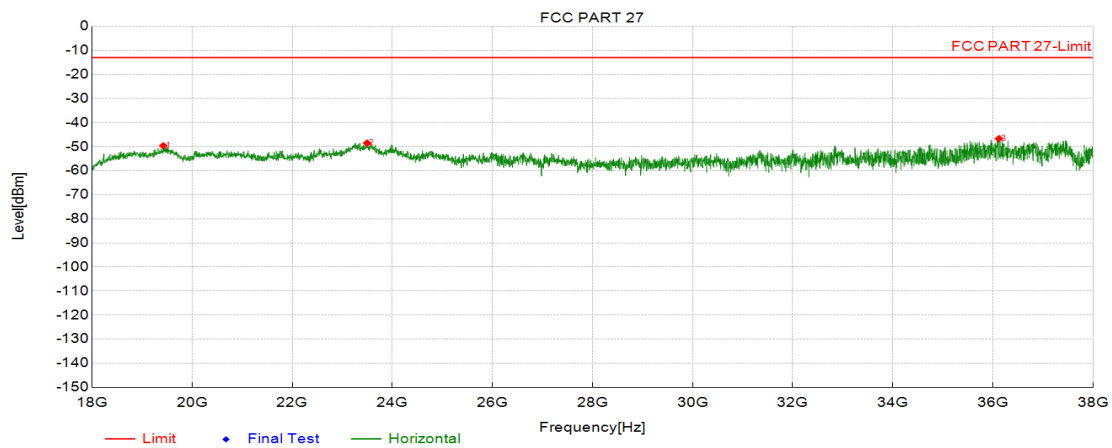
Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 633332
FREQUENCY RANGE	18G-38G	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	19424.284	-58.89	-49.63	9.26	-13.00	36.63	Horizon	PK	PASS
2	23497.099	-64.76	-48.51	16.25	-13.00	35.51	Horizon	PK	PASS
3	36119.623	-63.19	-46.65	16.54	-13.00	33.65	Horizon	PK	PASS



Test Report No.: RF260623B005

CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 633332						
FREQUENCY RANGE	18G-38G	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH						
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	19596.319	-58.17	-50.51	7.66	-13.00	37.51	Vertical	PK	PASS
2	23285.057	-63.55	-50.41	13.14	-13.00	37.41	Vertical	PK	PASS
3	37175.835	-63.70	-49.03	14.67	-13.00	36.03	Vertical	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit • Final Test — Vertical

Test Report No.: RF260623B005

NR Band N78(HPUE)									
CHANNEL BANDWIDTH		20MHz / QPSK			MODE		TX channel 630668		
FREQUENCY RANGE		Above 1000MHz			ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH		
INPUT POWER		AC 120V 60HZ			TESTED BY		Carl Xie Xu		
TESTED BY		Carl Xie Xu							
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6900.7802	-60.71	-52.46	8.25	-13.00	39.46	Horizontal	PK	PASS
2	10351.4703	-64.16	-51.02	13.14	-13.00	38.02	Horizontal	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit • Final Test — Horizontal

FCC PART 27-Limit

Test Report No.: RF260623B005

CHANNEL BANDWIDTH		20MHz / QPSK		MODE		TX channel 630668			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6900.7802	-60.51	-52.07	8.44	-13.00	39.07	Vertical	PK	PASS
2	10351.4703	-64.21	-50.50	13.71	-13.00	37.50	Vertical	PK	PASS

FCC PART 27

Level[dBm]

Frequency[Hz]

— Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005

CHANNEL BANDWIDTH		20MHz / QPSK		MODE		TX channel 633332			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6984.797	-61.90	-53.67	8.23	-13.00	40.67	Horizontal	PK	PASS
2	10477.4955	-63.85	-50.43	13.42	-13.00	37.43	Horizontal	PK	PASS

FCC PART 27

Legend: — Limit • Final Test — Horizontal

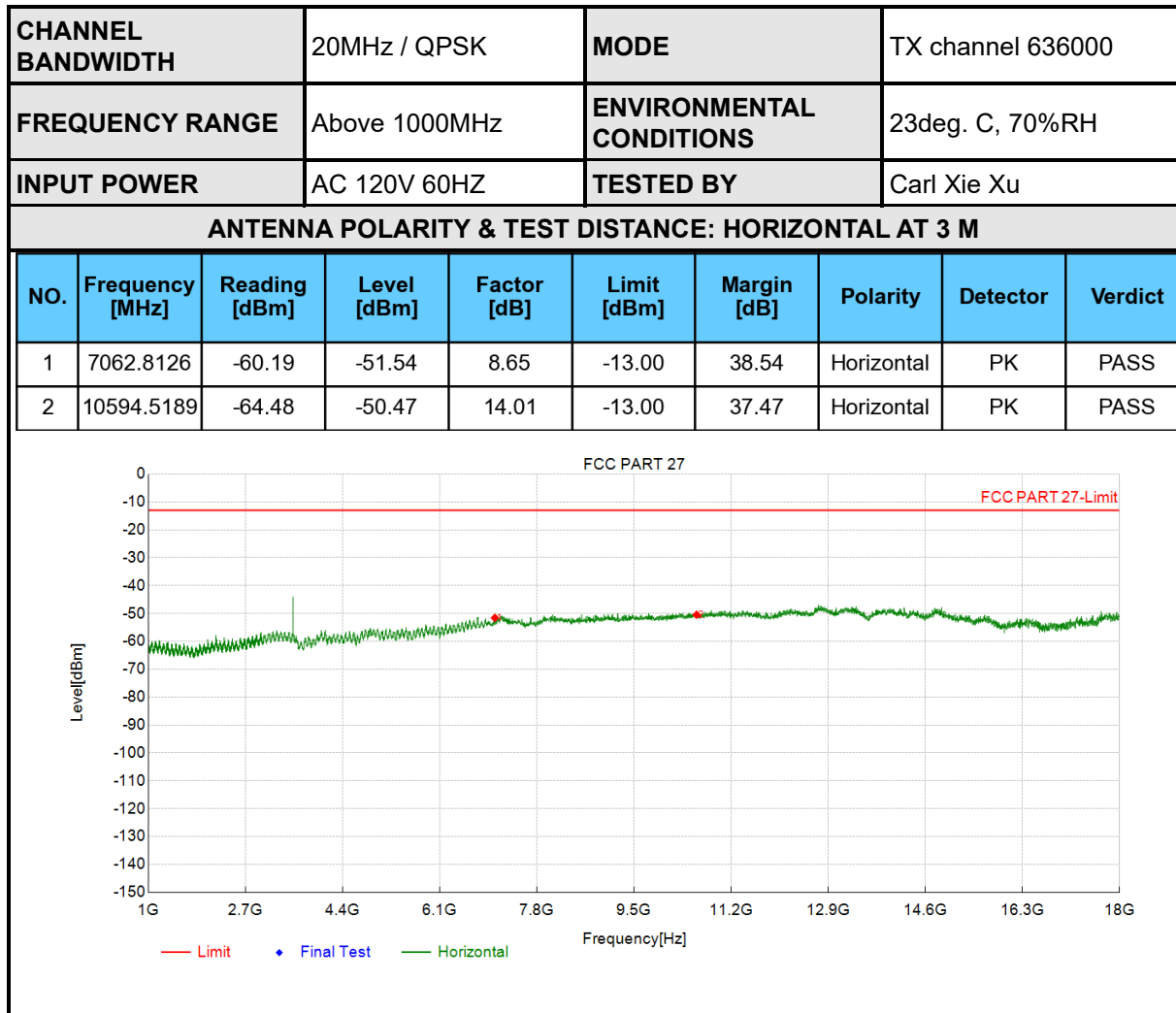
Test Report No.: RF260623B005

CHANNEL BANDWIDTH		20MHz / QPSK		MODE		TX channel 633332			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6984.797	-62.33	-53.90	8.43	-13.00	40.90	Vertical	PK	PASS
2	10477.4955	-63.75	-49.99	13.76	-13.00	36.99	Vertical	PK	PASS

FCC PART 27

Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005



Test Report No.: RF260623B005

CHANNEL BANDWIDTH		20MHz / QPSK		MODE		TX channel 636000			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		AC 120V 60HZ		TESTED BY		Carl Xie Xu			
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7062.8126	-60.73	-51.87	8.86	-13.00	38.87	Vertical	PK	PASS
2	10594.5189	-64.33	-50.45	13.88	-13.00	37.45	Vertical	PK	PASS

FCC PART 27

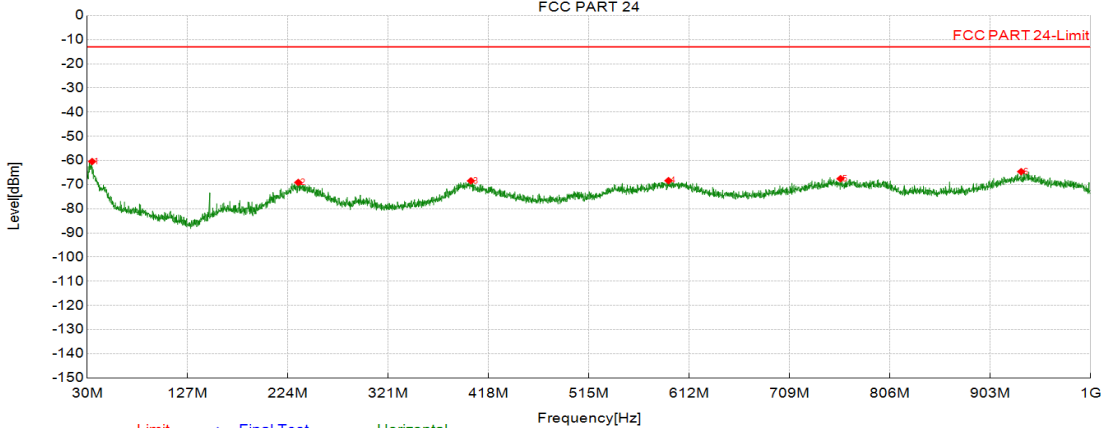
Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B005

M.2 FORM

BELOW 1GHz WORST-CASE DATA									
NR N77O(HPUE)									
CHANNEL BANDWIDTH: 20MHz / QPSK									
MODE	TX channel 664666			FREQUENCY RANGE			30 MHz – 1GHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH			INPUT POWER			AC 120V 60HZ		
TESTED BY	Carl Xie Xu								
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	34.6569	-57.16	-60.43	-3.27	-13.00	47.43	Horizon	PK	PASS
2	233.9348	-64.11	-69.09	-4.98	-13.00	56.09	Horizon	PK	PASS
3	400.8082	-66.11	-68.43	-2.32	-13.00	55.43	Horizon	PK	PASS
4	591.7423	-67.20	-68.35	-1.15	-13.00	55.35	Horizon	PK	PASS
5	758.0336	-67.86	-67.55	0.31	-13.00	54.55	Horizon	PK	PASS
6	932.6685	-67.86	-64.63	3.23	-13.00	51.63	Horizon	PK	PASS

FCC PART 24



— Limit • Final Test — Horizontal

Test Report No.: RF260623B005

MODE	TX channel 664666		FREQUENCY RANGE	30 MHz – 1GHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH		INPUT POWER	AC 120V 60HZ					
TESTED BY	Carl Xie Xu								
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	33.4927	-50.18	-61.34	-11.16	-13.00	48.34	Vertical	PK	PASS
2	148.5577	-53.90	-63.80	-9.90	-13.00	50.80	Vertical	PK	PASS
3	259.3539	-55.89	-67.56	-11.67	-13.00	54.56	Vertical	PK	PASS
4	537.0234	-66.41	-66.29	0.12	-13.00	53.29	Vertical	PK	PASS
5	700.21	-66.58	-67.40	-0.82	-13.00	54.40	Vertical	PK	PASS
6	942.1764	-68.08	-66.72	1.36	-13.00	53.72	Vertical	PK	PASS

FCC PART 24

Legend: — Limit • Final Test — Vertical

Test Report No.: RF260623B005

ABOVE 1GHz

Note: For higher frequency, the emission is too low to be detected.

LTE BAND 30

CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 27685
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	4619.824	-57.63	-55.83	1.80	-40.00	15.83	Horizontal	PK	PASS
2	6928.5857	-60.94	-52.70	8.24	-40.00	12.70	Horizontal	PK	PASS

