

BUREAU
VERITAS

Test Report No.: PSU-QBJ2512030110RF02



Certificate #6613.01

FCC TEST REPORT

(PART 24)

Applicant:	FOXX Development Inc
Address:	3480 Preston Ridge Road Suite 500, Alpharetta, GA 30005

Manufacturer or Supplier:	FOXX Development Inc
Address:	3480 Preston Ridge Road Suite 500, Alpharetta, GA 30005
Product:	Redcap Module
Brand Name:	FOXX
Model Name:	IQ50
FCC ID	2AQRM-IQ50
Date of tests	Dec. 05, 2025 ~Dec. 31, 2025

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

☒ **FCC PART 24, Subpart E**
☒ **FCC PART 2**
☒ **ANSI/TIA/EIA-603-D**

☒ **ANSI/TIA/EIA-603-E**
☒ **ANSI C63.26-2015**

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

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Jan. 12, 2026	Date: Jan. 12, 2026

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QBJ2512030110RF01	Original release	Jan. 12, 2026



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	Test lab*
§2.1046	Conducted Output Power	Compliance	A
§24.232(c)	Equivalent Isotropic Radiated Power	Compliance	A
§2.1055 §24.235	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§24.232(d)	Peak to average ratio*	Compliance	A
§24.238(a)(b)	Band Edge Measurements	Compliance	A
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	Compliance	A
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	Compliance	A

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

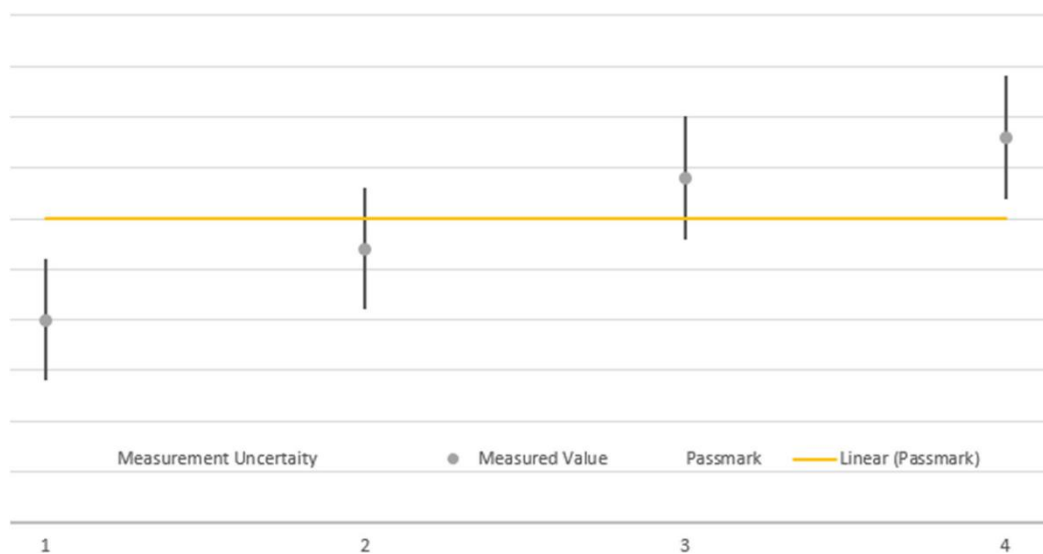


1.1 MEASUREMENT UNCERTAINTY

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	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

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.



1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.29,25	Aug.28,27
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.24,25	Nov.23,28
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Aug.20,25	Aug.19,28
EMI TEST Receiver	R&S	ESR26	101734	Mar.28,24	Mar.27,26
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Jul.04,25	Jul.03,27
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.20,25	Aug.19,27
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Mar.22,25	Mar.21,27
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,25	Feb.21,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Radio Communication Tester	Rohde&Schwarz	CMX500	101446	Mar.21,25	Mar.20,27
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.30,25	Aug.29,27
Hygrothermograph	DELI	20210528	SZ014	Mar.18,25	Mar.17,27
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	W12.14	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,25	Apr.25,26
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26



NOTE:

1. The calibration interval of the above test instruments is 12/24/36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/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 434559; The Designation No. is CN1325.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Redcap Module	
BRAND NAME*	FOXX	
MODEL NAME*	IQ50	
NOMINAL VOLTAGE*	3.8Vdc	
MODULATION TYPE*	LTE	QPSK, 16QAM, 64QAM
	5G NR	DFT-s-OFDM(Pi/2BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFDM(QPSK,16QAM,64QAM,256QAM);
FREQUENCY RANGE	NR BAND N2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	NR BAND N2 Channel Bandwidth: 10MHz	1855MHz ~ 1905MHz
	NR BAND N2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	NR BAND N2 Channel Bandwidth: 20MHz	1860MHz ~ 1900MHz
	NR BAND N25 Channel Bandwidth: 5MHz	1852.5MHz ~ 1912.5MHz
	NR BAND N25 Channel Bandwidth: 10MHz	1855MHz ~ 1910MHz
	NR BAND N25 Channel Bandwidth: 15MHz	1857.5MHz ~ 1907.5MHz
	NR BAND N25 Channel Bandwidth: 20MHz	1860MHz ~ 1905MHz
	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1909.3MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5MHz ~ 1908.5MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855.0MHz ~ 1905.0MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860.0MHz ~ 1900.0MHz



	LTE Band 25 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1914.3MHz
	LTE Band 25 Channel Bandwidth: 3MHz	1851.5MHz ~ 1913.5MHz
	LTE Band 25 Channel Bandwidth: 5MHz	1852.5MHz ~ 1912.5MHz
	LTE Band 25 Channel Bandwidth: 10MHz	1855.0MHz ~ 1910.0MHz
	LTE Band 25 Channel Bandwidth: 15MHz	1857.5MHz ~ 1907.5MHz
	LTE Band 25 Channel Bandwidth: 20MHz	1860.0MHz ~ 1905.0MHz
MAX. EIRP POWER	LTE Band 2 Channel Bandwidth: 1.4MHz	289.07mW
	LTE Band 2 Channel Bandwidth: 3MHz	282.49mW
	LTE Band 2 Channel Bandwidth: 5MHz	288.40mW
	LTE Band 2 Channel Bandwidth: 10MHz	282.49mW
	LTE Band 2 Channel Bandwidth: 15MHz	288.40mW
	LTE Band 2 Channel Bandwidth: 20MHz	291.74mW
	LTE Band 25 Channel Bandwidth: 1.4MHz	280.54mW
	LTE Band 25 Channel Bandwidth: 3MHz	274.79mW
	LTE Band 25 Channel Bandwidth: 5MHz	276.69mW
	LTE Band 25 Channel Bandwidth: 10MHz	278.61mW
	LTE Band 25 Channel Bandwidth: 15MHz	280.54mW
	LTE Band 25 Channel Bandwidth: 20MHz	282.49mW
MAX. ERP POWER Redcap mode	NR BAND N2 Channel Bandwidth: 5MHz	258.82mW
	NR BAND N2 Channel Bandwidth: 10MHz	264.24mW
	NR BAND N2 Channel Bandwidth: 15MHz	258.82mW
	NR BAND N2 Channel Bandwidth: 20MHz	263.63mW



	NR BAND N25 Channel Bandwidth: 5MHz	265.46mW
	NR BAND N25 Channel Bandwidth: 10MHz	268.53mW
	NR BAND N25 Channel Bandwidth: 15MHz	266.69mW
	NR BAND N25 Channel Bandwidth: 20MHz	274.16mW
EMISSION DESIGNATOR	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M11G7D
		16QAM: 1M11W7D
		64QAM: 1M10W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M71G7D
		16QAM: 2M71W7D
		64QAM: 2M70W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M53G7D
		16QAM: 4M53W7D
		64QAM: 4M54W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 9M00G7D
		16QAM: 9M02W7D
		64QAM: 9M02W7D
	LTE Band 25 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
	LTE Band 25 Channel Bandwidth: 20MHz	QPSK: 18M0G7D
		16QAM: 18M0W7D
		64QAM: 18M0W7D
EMISSION DESIGNATOR Redcap mode	LTE Band 25 Channel Bandwidth: 5MHz	Pi/2BPSK: 4M56G7D QPSK: 4M56G7D 16QAM: 4M56W7D 64QAM: 4M54W7D 256QAM: 4M56G7D
	LTE Band 25 Channel Bandwidth: 10MHz	Pi/2BPSK: 9M02G7D QPSK: 9M02G7D 16QAM: 9M02W7D 64QAM: 8M99W7D 256QAM: 9M01G7D



	LTE Band 25 Channel Bandwidth: 15MHz	Pi/2BPSK: 13M4G7D QPSK: 13M4G7D 16QAM: 13M4W7D 64QAM: 13M4W7D 256QAM:13M5G7D
	LTE Band 25 Channel Bandwidth: 20MHz	Pi/2BPSK: 17M9G7D QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM:17M9G7D
ANTENNA GAIN*	☒ Provided by client	
	LTE B2	1.35dBi
	LTE B25	1.22dBi
	NR BAND N2	1.35dBi
	NR BAND N25	1.35dBi
ANTENNA TYPE*	External Antenna	
HW VERSION*	SRM813Q-NA_MB_V1.00	
SW VERSION*	SRM813Q-NA_2.0.2_EQ100	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	N/A	
EXTREME TEMPERATURE*	-40°C~85°C	
EXTREME VOLTAGE*	3.3V~4.35V	

NOTE:

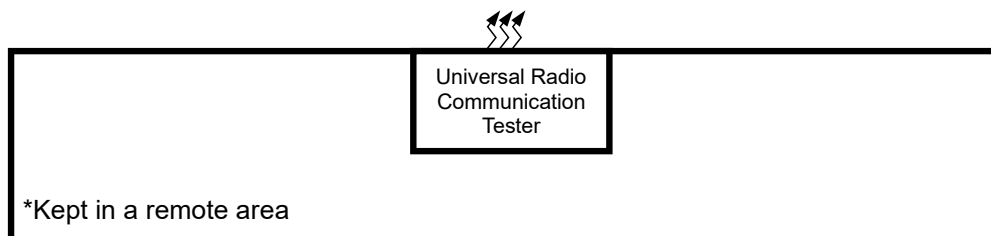
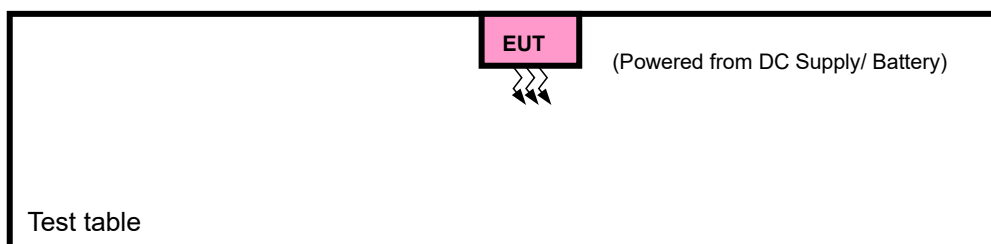
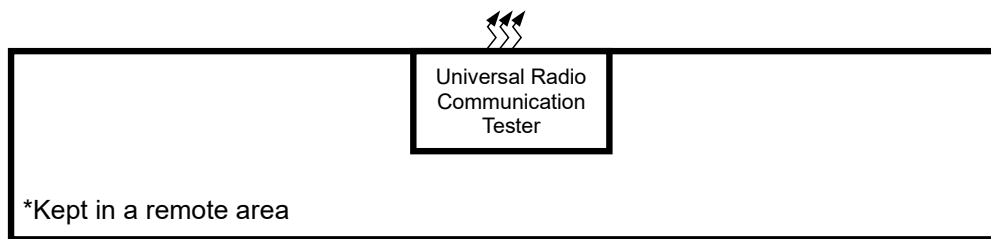
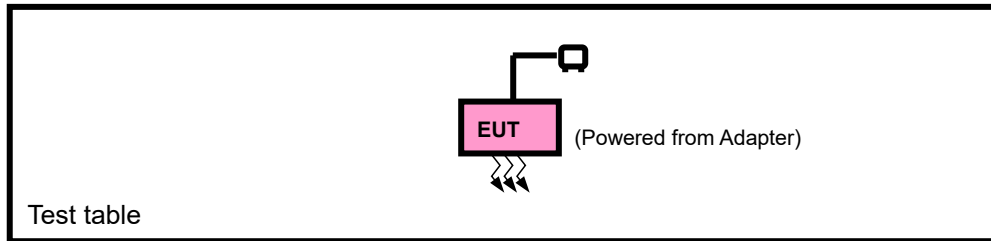
1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and two receivers.

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

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF02
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	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A
2	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable, 1.0m;
2	PC USB 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 in EIRP and radiated emission was found when positioned on X-plane for LTE/NR. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE and NR link
B	EUT + DC Supply with LTE and NR link



LTE BAND 2 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM,64QAM	1 RB / 0 RB offset
A	RADIATED EMISSION	18607 to 19193	18900	1.4MHz	QPSK	1 RB / 0 RB offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB / 0 RB offset
		18625 to 19175	18900	5MHz	QPSK	1 RB / 0 RB offset
		18650 to 19150	18900	10MHz	QPSK	1 RB / 0 RB offset
		18675 to 19125	18900	15MHz	QPSK	1 RB / 0 RB offset
		18700 to 19100	18900	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. LTE Band 2 are covered by LTE Band 25, Because it is a subset of LTE Band 25 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 25



LTE BAND 25 MODE						
EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
B	FREQUENCY STABILITY	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB offset
A	OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	75 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	100 RB / 0 RB offset
A	PEAK TO AVERAGE RATIO	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
A	BAND EDGE	26047 to 26683	26047	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 6 RB / 0 RB offset
			26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 5 RB offset 6 RB / 0 RB offset
		26055 to 26675	26055	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 15 RB / 0 RB offset
			26675	3MHz	QPSK, 16QAM, 64QAM	1 RB / 14 RB offset 15 RB / 0 RB offset
		26065 to 26665	26065	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 25 RB / 0 RB offset
			26665	5MHz	QPSK, 16QAM, 64QAM	1 RB / 24 RB offset 25 RB / 0 RB offset
		26090 to 26640	26090	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 50 RB / 0 RB offset
			26640	10MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB offset 50 RB / 0 RB offset
		26115 to 26615	26115	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 75 RB / 0 RB offset
			26615	15MHz	QPSK, 16QAM, 64QAM	1 RB / 74 RB offset 75 RB / 0 RB offset
		26140 to 26590	26140	20MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 100 RB / 0 RB offset



			26590	20MHz	QPSK,16QAM, 64QAM	1 RB / 99 RB offset 100 RB / 0 RB offset
A	CONDCUDED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM, 64QAM	1 RB / 0 RB offset
A	RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB offset
		26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB offset
		26090 to 26640	26090,26365,26640	10MHz	QPSK	1 RB / 0 RB offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB offset
		26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB offset

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



NR BAND N2 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	370500 to 381500	370500 ,376000,381500	5MHz	QPSK	1 RB / 0 RB offset
		371000 to 381000	371000 ,376000,381000	10MHz	QPSK	1 RB / 0 RB offset
		371500 to 380500	371500 ,376000,380500	15MHz	QPSK	1 RB / 0 RB offset
		372000 to 380000	372000 ,376000,380000	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
A	ERP	370500 to 381500	376000	5MHz	QPSK	1 RB / 0 RB offset
		371000 to 381000	376000	10MHz	QPSK	1 RB / 0 RB offset
		371500 to 380500	376000	15MHz	QPSK	1 RB / 0 RB offset
		372000 to 380000	372000 ,376000,380000	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 BAND N5 are covered by NR Band N26, Because it is a subset of NR Band N26 with the same output power and supported bandwidths, So the test data please refer to NR Band N26



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NR BAND N25 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	370500 to 382500	370500 ,376500,382500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 ,376500,382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 ,376500,381500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 ,376500,381000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENC Y STABILITY	371000 to 382000	370500 ,382500	Low,High	5MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	370500 to 382500	370500 ,376500,382500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		370500 to 382500	371000 ,376500,382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		371500 to 381500	371500 ,376500,381500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDT H	370500 to 382500	376500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		371000 to 382000	376500	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		371500 to 381500	376500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		372000 to 381000	376500	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	370500 to 382500	370500 , 382500	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		371000 to 382000	371000, 382000	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		371500 to 381500	371500 , 381500	Low	10MHz	QPSK	1RB/ 0RB Offset

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				High	10MHz	QPSK	Outer Full 1RB/ 0RB Offset
							Outer Full
		372000 to 381000	372000 , 381000	Low	20MHz	QPSK	1RB/ 0RB Offset
							Outer Full
				High	20MHz	QPSK	1RB/ 0RB Offset
							Outer Full
A	CONDUCTED EMISSION	370500 to 382500	370500 ,376500,382500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 ,376500,382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 ,376500,381500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 ,376500,381000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	163300 to 169300	376500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		163800 to 168800	376500	Middle	10MHz	QPSK	1RB/ 0RB Offset
		164300 to 168300	376500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		164800 to 167800	372000 ,376500,381000	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_n26

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



2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

2.6 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 24

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

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

Mobile and portable stations are limited to 2 watts 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 WCDMA 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.



3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm) :



LTE BAND 2						
Band/BW	Modulation	RB Size	RB offset	Low CH 18607	Mid CH 18900	High CH 19193
				Frequency 1850.7 MHz	Frequency 1880 MHz	Frequency 1909.3 MHz
2/ 1.4	QPSK	1	0	23.12	23.11	23.14
		1	2	23.07	23.11	23.08
		1	5	22.95	23.02	22.80
		3	0	23.14	23.20	23.04
		3	1	23.22	23.26	23.13
		3	3	22.99	23.01	23.18
		6	0	22.33	22.24	22.14
	16QAM	1	0	22.20	22.22	22.29
		1	2	22.33	22.37	22.25
		1	5	21.90	22.04	21.91
		3	0	22.18	22.27	22.18
		3	1	22.22	22.12	22.24
		3	3	22.33	22.26	22.17
		6	0	21.53	21.47	21.19
	64QAM	1	0	21.07	21.30	21.29
		1	2	21.24	21.14	21.14
		1	5	21.12	21.11	20.96
		3	0	21.28	21.49	20.93
		3	1	21.34	21.03	21.21
		3	3	21.26	21.41	21.28
		6	0	20.24	20.40	20.21
Band/BW	Modulation	RB Size	RB offset	Low CH 18615	Mid CH 18900	High CH 19185
				Frequency 1851.5 MHz	Frequency 1880 MHz	Frequency 1908.5 MHz
2/ 3	QPSK	1	0	23.08	23.14	23.03
		1	7	23.08	23.14	23.16
		1	14	22.92	23.00	22.94
		8	0	22.18	22.05	21.94
		8	3	22.08	22.21	22.11
		8	7	22.02	22.02	22.06
		15	0	22.13	22.29	22.21
	16QAM	1	0	22.21	22.37	22.09
		1	7	22.42	22.30	22.11
		1	14	21.94	22.21	22.03
		8	0	21.30	21.26	21.02
		8	3	21.34	21.26	21.31
		8	7	21.30	21.35	21.05
		15	0	21.46	21.42	21.33
	64QAM	1	0	21.20	21.32	21.24
		1	7	21.38	21.21	21.31
		1	14	21.02	21.31	20.96
		8	0	20.30	20.28	20.09
		8	3	20.45	20.20	20.25
		8	7	20.16	20.33	20.32
		15	0	20.38	20.37	20.25



LTE BAND 2						
Band/BW	Modulation	RB Size	RB offset	Low CH18625	Mid CH18900	High CH19175
				Frequency 1852.5 MHz	Frequency 1880 MHz	Frequency 1907.5 MHz
2/ 5	QPSK	1	0	23.03	23.07	23.05
		1	12	23.05	23.25	23.03
		1	24	22.96	23.05	22.88
		12	0	22.26	22.15	22.02
		12	6	22.20	22.17	22.09
		12	13	22.06	22.02	21.99
		25	0	22.17	22.36	22.13
	16QAM	1	0	22.27	22.16	22.17
		1	12	22.37	22.30	22.12
		1	24	21.91	22.21	22.08
		12	0	21.22	21.27	21.16
		12	6	21.31	21.11	21.43
		12	13	21.19	21.37	21.13
		25	0	21.33	21.49	21.27
	64QAM	1	0	21.15	21.16	21.30
		1	12	21.37	21.26	21.28
		1	24	21.06	21.13	21.04
		12	0	20.34	20.50	20.13
		12	6	20.29	20.12	20.42
		12	13	20.24	20.34	20.16
		25	0	20.38	20.44	20.13
Band/BW	Modulation	RB Size	RB offset	Low CH 18650	Mid CH 18900	High CH 19150
				Frequency 1855 MHz	Frequency 1880 MHz	Frequency 1905 MHz
2/ 10	QPSK	1	0	23.06	23.09	23.04
		1	24	23.06	23.16	23.02
		1	49	23.00	23.03	22.91
		25	0	22.15	22.11	22.04
		25	12	22.15	22.33	22.09
		25	25	22.11	22.14	21.98
		50	0	22.14	22.22	22.24
	16QAM	1	0	22.17	22.15	22.16
		1	24	22.42	22.16	22.23
		1	49	22.03	22.09	21.96
		25	0	21.20	21.26	21.04
		25	12	21.22	21.17	21.36
		25	25	21.13	21.28	21.24
		50	0	21.31	21.56	21.33
	64QAM	1	0	21.08	21.25	21.27
		1	24	21.30	21.15	21.11
		1	49	21.23	21.14	21.07
		25	0	20.40	20.50	19.99
		25	12	20.51	20.20	20.24
		25	25	20.26	20.20	20.21
		50	0	20.37	20.29	20.12



LTE BAND 2						
Band/BW	Modulation	RB Size	RB offset	Low CH 18675	Mid CH 18900	High CH 19125
				Frequency 1857.5 MHz	Frequency 1880 MHz	Frequency 1902.5 MHz
2/ 15	QPSK	1	0	23.00	23.25	23.14
		1	37	23.10	23.23	23.06
		1	74	23.05	23.01	22.75
		36	0	22.11	22.02	22.06
		36	19	22.11	22.23	22.09
		36	39	21.96	22.08	22.13
		75	0	22.14	22.36	22.14
	16QAM	1	0	22.29	22.20	22.08
		1	37	22.27	22.31	22.15
		1	74	22.05	22.20	22.08
		36	0	21.28	21.11	21.22
		36	19	21.29	21.08	21.27
		36	39	21.16	21.23	21.25
		75	0	21.53	21.50	21.22
	64QAM	1	0	21.12	21.26	21.24
		1	37	21.21	21.17	21.32
		1	74	21.02	21.20	20.89
		36	0	20.33	20.28	20.07
		36	19	20.48	20.12	20.36
		36	39	20.22	20.34	20.14
		75	0	20.39	20.38	20.20
Band/BW	Modulation	RB Size	RB offset	Low CH 18700	Mid CH 18900	High CH 19100
				Frequency 1860 MHz	Frequency 1880 MHz	Frequency 1900 MHz
2/ 20	QPSK	1	0	23.17	23.27	23.14
		1	50	23.25	23.30	23.16
		1	99	23.04	23.14	22.93
		50	0	22.28	22.22	22.08
		50	25	22.28	22.32	22.30
		50	50	22.15	22.20	22.17
		100	0	22.34	22.35	22.29
	16QAM	1	0	22.35	22.36	22.28
		1	50	22.44	22.36	22.24
		1	99	22.05	22.24	22.07
		50	0	21.33	21.31	21.23
		50	25	21.41	21.27	21.44
		50	50	21.34	21.41	21.25
		100	0	21.52	21.55	21.36
	64QAM	1	0	21.26	21.31	21.31
		1	50	21.39	21.30	21.32
		1	99	21.22	21.30	21.10
		50	0	20.40	20.49	20.14
		50	25	20.50	20.21	20.42
		50	50	20.35	20.40	20.31
		100	0	20.45	20.49	20.29



LTE BAND 25						
Band/BW	Modulation	RB Size	RB offset	Low CH 26047	Mid CH 26365	High CH 26683
				Frequency 1850.7 MHz	Frequency 1882.5 MHz	Frequency 1914.3 MHz
25/ 1.4	QPSK	1	0	23.11	23.08	23.00
		1	2	23.19	23.09	23.14
		1	5	22.97	23.22	23.05
		3	0	23.20	22.97	23.16
		3	1	23.09	23.26	22.96
		3	3	23.07	22.82	22.92
		6	0	22.23	22.27	22.10
	16QAM	1	0	22.04	22.17	22.10
		1	2	22.12	22.21	21.99
		1	5	22.07	22.28	22.06
		3	0	22.18	21.98	22.34
		3	1	22.23	22.38	22.09
		3	3	22.07	21.90	22.10
		6	0	21.18	21.34	21.21
	64QAM	1	0	21.15	21.08	21.16
		1	2	21.24	21.33	21.02
		1	5	21.13	21.30	21.27
		3	0	21.05	21.12	21.06
		3	1	21.21	21.45	21.00
		3	3	20.95	21.09	21.13
		6	0	20.27	20.28	20.10
Band/BW	Modulation	RB Size	RB offset	Low CH 26055	Mid CH 26365	High CH 26675
				Frequency 1851.5 MHz	Frequency 1882.5 MHz	Frequency 1913.5 MHz
25/ 3	QPSK	1	0	23.07	23.11	22.98
		1	7	23.17	23.17	22.97
		1	14	23.05	23.17	23.12
		8	0	22.12	21.91	22.16
		8	3	22.04	22.12	22.12
		8	7	22.02	21.82	21.99
		15	0	22.06	22.31	22.24
	16QAM	1	0	22.24	22.14	22.13
		1	7	22.11	22.22	22.02
		1	14	22.08	22.27	21.99
		8	0	21.13	21.03	21.17
		8	3	21.20	21.33	21.17
		8	7	21.19	21.04	21.09
		15	0	21.24	21.18	21.21
	64QAM	1	0	21.24	21.13	21.05
		1	7	21.28	21.40	21.16
		1	14	21.14	21.34	21.21
		8	0	20.12	20.06	20.25
		8	3	20.36	20.42	20.04
		8	7	20.08	20.03	20.05
		15	0	20.30	20.29	20.26



LTE BAND 25						
Band/BW	Modulation	RB Size	RB offset	Low CH 26065	Mid CH 26365	High CH 26665
				Frequency 1852.5 MHz	Frequency 1882.5 MHz	Frequency 1912.5 MHz
25/ 5	QPSK	1	0	22.96	23.03	22.88
		1	12	23.09	23.20	23.16
		1	24	22.98	23.19	23.08
		12	0	21.99	22.06	22.09
		12	6	22.05	22.06	21.98
		12	13	21.94	21.88	22.02
		25	0	22.21	22.11	22.20
	16QAM	1	0	22.19	22.05	21.99
		1	12	22.24	22.34	22.00
		1	24	22.01	22.09	22.04
		12	0	21.21	20.94	21.22
		12	6	21.04	21.19	21.09
		12	13	21.03	21.04	21.13
		25	0	21.34	21.37	21.39
	64QAM	1	0	21.19	21.02	21.01
		1	12	21.30	21.31	21.14
		1	24	20.94	21.16	21.30
		12	0	20.07	20.06	20.20
		12	6	20.32	20.26	19.99
		12	13	19.97	20.07	20.02
		25	0	20.34	20.38	20.18
Band/BW	Modulation	RB Size	RB offset	Low CH 26090	Mid CH 26365	High CH 26640
				Frequency 1855 MHz	Frequency 1882.5 MHz	Frequency 1910 MHz
25/ 10	QPSK	1	0	22.93	22.97	22.94
		1	24	23.09	23.23	23.00
		1	49	22.99	23.10	23.01
		25	0	22.01	22.00	22.04
		25	12	22.03	22.19	21.95
		25	25	22.02	22.01	22.05
		50	0	22.11	22.24	22.09
	16QAM	1	0	22.23	22.14	22.03
		1	24	22.08	22.29	22.15
		1	49	22.04	22.22	21.94
		25	0	21.19	21.02	21.32
		25	12	21.22	21.36	21.12
		25	25	21.06	20.88	20.95
		50	0	21.12	21.17	21.37
	64QAM	1	0	21.13	21.03	21.11
		1	24	21.25	21.45	21.04
		1	49	20.97	21.16	21.13
		25	0	20.12	19.98	20.26
		25	12	20.18	20.40	20.07
		25	25	20.02	20.18	20.08
		50	0	20.30	20.48	20.23



LTE BAND 25						
Band/BW	Modulation	RB Size	RB offset	Low CH 26115	Mid CH 26365	High CH 26615
				Frequency 1857.5 MHz	Frequency 1882.5 MHz	Frequency 1907.5 MHz
25/ 15	QPSK	1	0	22.97	23.05	22.91
		1	37	23.20	23.26	23.19
		1	74	23.07	23.16	22.96
		36	0	21.99	21.91	21.97
		36	19	22.03	22.24	22.12
		36	39	21.95	22.03	22.00
		75	0	22.24	22.15	22.16
	16QAM	1	0	22.20	22.24	22.02
		1	37	22.15	22.20	22.03
		1	74	21.93	22.29	22.00
		36	0	21.11	21.04	21.25
		36	19	21.11	21.38	21.14
		36	39	21.24	21.01	20.95
		75	0	21.21	21.25	21.24
	64QAM	1	0	21.27	20.98	21.18
		1	37	21.17	21.28	20.99
		1	74	21.04	21.18	21.15
		36	0	20.16	19.99	20.08
		36	19	20.19	20.30	20.12
		36	39	20.06	20.01	20.10
		75	0	20.38	20.46	20.10
Band/BW	Modulation	RB Size	RB offset	Low CH 26140	Mid CH 26365	High CH 26590
				Frequency 1860 MHz	Frequency 1882.5 MHz	Frequency 1905 MHz
25/ 20	QPSK	1	0	23.12	23.10	23.08
		1	50	23.27	23.29	23.18
		1	99	23.07	23.28	23.12
		50	0	22.20	22.05	22.15
		50	25	22.21	22.26	22.16
		50	50	22.11	22.03	22.05
		100	0	22.25	22.31	22.28
	16QAM	1	0	22.23	22.26	22.14
		1	50	22.29	22.33	22.19
		1	99	22.07	22.30	22.11
		50	0	21.22	21.12	21.36
		50	25	21.25	21.37	21.25
		50	50	21.23	21.08	21.15
		100	0	21.33	21.36	21.42
	64QAM	1	0	21.28	21.16	21.20
		1	50	21.34	21.44	21.17
		1	99	21.14	21.36	21.29
		50	0	20.19	20.19	20.25
		50	25	20.38	20.44	20.20
		50	50	20.16	20.20	20.15
		100	0	20.42	20.49	20.28



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Redcap mode

n2 (SCS 15kHz)								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		372000	376000	380000		
		Frequency (MHz)		1860	1880	1900		
20	Pi/2 BPSK	1	1	22.77	22.86	22.82	0	25.7
		1	53	22.59	22.74	22.57	0	25.7
		1	104	22.63	22.75	22.56	0	25.7
		50	0	22.20	22.25	22.27	0.5	25.2
		50	28	22.74	22.70	22.81	0	25.7
		50	56	22.08	22.33	22.08	0.5	25.2
		100	0	22.49	22.44	22.43	0.5	25.2
	QPSK	1	1	22.83	22.89	22.84	0	25.7
		1	53	22.64	22.77	22.63	0	25.7
		1	104	22.67	22.82	22.68	0	25.7
		50	0	21.86	21.85	21.78	1	24.7
		50	28	22.83	22.87	22.83	0	25.7
		50	56	21.76	21.87	21.68	1	24.7
		100	0	22.01	22.07	21.92	1	24.7
	16QAM	1	1	21.73	21.94	21.80	1	24.7
	64QAM	1	1	20.19	20.37	20.26	2.5	23.2
	256QAM	1	1	18.74	18.88	18.83	4.5	21.2
BW [MHz]	DFT-s-OFDM	Channel		371500	376000	380500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		1857.5	1880	1902.5		
15	QPSK	1	1	22.66	22.78	22.76	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		371000	376000	381000	MPR (dB)	Max. Tune-up
		Frequency (MHz)		1855	1880	1905		
10	QPSK	1	1	22.77	22.87	22.82	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		370500	376000	381500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		1852.5	1880	1907.5		
5	QPSK	1	1	22.71	22.78	22.71	0	25.7



n25 (SCS 15kHz)								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		372000	376500	381000		
		Frequency (MHz)		1860	1882.5	1905		
20	Pi/2 BPSK	1	1	22.92	23.03	22.90	0	25.7
		1	53	22.84	22.83	22.81	0	25.7
		1	104	22.90	22.88	22.66	0	25.7
		50	0	22.28	22.34	22.29	0.5	25.2
		50	28	22.75	22.94	22.86	0	25.7
		50	56	22.47	22.42	22.38	0.5	25.2
		100	0	22.55	22.58	22.58	0.5	25.2
	QPSK	1	1	22.96	23.06	22.93	0	25.7
		1	53	22.93	23.03	22.90	0	25.7
		1	104	22.93	22.94	22.75	0	25.7
		50	0	21.92	22.00	22.00	1	24.7
		50	28	22.93	23.03	22.91	0	25.7
		50	56	21.97	22.04	21.99	1	24.7
		100	0	22.12	22.19	22.10	1	24.7
	16QAM	1	1	21.52	21.63	21.53	1	24.7
	64QAM	1	1	20.32	20.51	20.41	2.5	23.2
	256QAM	1	1	19.00	19.07	18.88	4.5	21.2
BW [MHz]	DFT-s-OFDM	Channel		371500	376500	381500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		1857.5	1882.5	1907.5		
15	QPSK	1	1	22.91	22.87	22.86	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		371000	376500	382000	MPR (dB)	Max. Tune-up
		Frequency (MHz)		1855	1882.5	1910		
10	QPSK	1	1	22.94	22.87	22.73	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		370500	376500	382500	MPR (dB)	Max. Tune-up
		Frequency (MHz)		1852.5	1882.5	1912.5		
5	QPSK	1	1	22.85	22.89	22.84	0	25.7



EIRP POWER (dBm)

LTE BAND 2						
1.4MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	23.22	1.35	24.57	286.42	2
18900	1880.0	23.26	1.35	24.61	289.07	2
19193	1909.3	23.18	1.35	24.53	283.79	2

1.4MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	22.33	1.35	23.68	233.35	2
18900	1880.0	22.37	1.35	23.72	235.50	2
19193	1909.3	22.29	1.35	23.64	231.21	2

1.4MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	21.34	1.35	22.69	185.78	2
18900	1880	21.49	1.35	22.84	192.31	2
19193	1909.3	21.29	1.35	22.64	183.65	2

3MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	23.08	1.35	24.43	277.33	2
18900	1880	23.14	1.35	24.49	281.19	2
19185	1908.5	23.16	1.35	24.51	282.49	2

3MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	22.42	1.35	23.77	238.23	2
18900	1880	22.37	1.35	23.72	235.50	2
19185	1908.5	22.11	1.35	23.46	221.82	2

3MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	21.38	1.35	22.73	187.50	2
18900	1880	21.32	1.35	22.67	184.93	2
19185	1908.5	21.31	1.35	22.66	184.50	2





5MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	23.05	1.35	24.40	275.42	2
18900	1880	23.25	1.35	24.60	288.40	2
19175	1907.5	23.05	1.35	24.40	275.42	2

5MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	22.37	1.35	23.72	235.50	2
18900	1880	22.30	1.35	23.65	231.74	2
19175	1907.5	22.17	1.35	23.52	224.91	2

5MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	21.37	1.35	22.72	187.07	2
18900	1880	21.26	1.35	22.61	182.39	2
19175	1907.5	21.30	1.35	22.65	184.08	2

10MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	23.06	1.35	24.41	276.06	2
18900	1880	23.16	1.35	24.51	282.49	2
19150	1905	23.04	1.35	24.39	274.79	2

10MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	22.42	1.35	23.77	238.23	2
18900	1880	22.16	1.35	23.51	224.39	2
19150	1905	22.23	1.35	23.58	228.03	2

10MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	21.30	1.35	22.65	184.08	2
18900	1880	21.25	1.35	22.60	181.97	2
19150	1905	21.27	1.35	22.62	182.81	2



15MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	23.10	1.35	24.45	278.61	2
18900	1880	23.25	1.35	24.60	288.40	2
19125	1902.5	23.14	1.35	24.49	281.19	2

15MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	22.29	1.35	23.64	231.21	2
18900	1880	22.31	1.35	23.66	232.27	2
19125	1902.5	22.15	1.35	23.50	223.87	2

15MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	21.21	1.35	22.56	180.30	2
18900	1880	21.26	1.35	22.61	182.39	2
19125	1902.5	21.32	1.35	22.67	184.93	2

20MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	23.25	1.35	24.60	288.40	2
18900	1880	23.30	1.35	24.65	291.74	2
19100	1900	23.16	1.35	24.51	282.49	2

20MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	22.44	1.35	23.79	239.33	2
18900	1880	22.36	1.35	23.71	234.96	2
19100	1900	22.28	1.35	23.63	230.67	2

20MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	21.39	1.35	22.74	187.93	2
18900	1880	21.31	1.35	22.66	184.50	2
19100	1900	21.32	1.35	22.67	184.93	2



LTE BAND 25						
1.4MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	23.20	1.22	24.42	276.69	2
26340	1880	23.26	1.22	24.48	280.54	2
26683	1914.3	23.16	1.22	24.38	274.16	2

1.4MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	22.23	1.22	23.45	221.31	2
26340	1880	22.38	1.22	23.60	229.09	2
26683	1914.3	22.34	1.22	23.56	226.99	2

1.4MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	21.24	1.22	22.46	176.20	2
26340	1880	21.45	1.22	22.67	184.93	2
26683	1914.3	21.27	1.22	22.49	177.42	2

3MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	23.17	1.22	24.39	274.79	2
26340	1880	23.17	1.22	24.39	274.79	2
26675	1913.5	23.12	1.22	24.34	271.64	2

3MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	22.24	1.22	23.46	221.82	2
26340	1880	22.27	1.22	23.49	223.36	2
26675	1913.5	22.13	1.22	23.35	216.27	2

3MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	21.28	1.22	22.50	177.83	2
26340	1880	21.40	1.22	22.62	182.81	2
26675	1913.5	21.21	1.22	22.43	174.98	2



5MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	23.09	1.22	24.31	269.77	2
26340	1880	23.20	1.22	24.42	276.69	2
26665	1912.5	23.16	1.22	24.38	274.16	2

5MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	22.24	1.22	23.46	221.82	2
26340	1880	22.34	1.22	23.56	226.99	2
26665	1912.5	22.04	1.22	23.26	211.84	2

5MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	21.30	1.22	22.52	178.65	2
26340	1880	21.31	1.22	22.53	179.06	2
26665	1912.5	21.30	1.22	22.52	178.65	2

10MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	23.09	1.22	24.31	269.77	2
26340	1880	23.23	1.22	24.45	278.61	2
26640	1910	23.01	1.22	24.23	264.85	2

10MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	22.23	1.22	23.45	221.31	2
26340	1880	22.29	1.22	23.51	224.39	2
26640	1910	22.15	1.22	23.37	217.27	2

10MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	21.25	1.22	22.47	176.60	2
26340	1880	21.45	1.22	22.67	184.93	2
26640	1910	21.13	1.22	22.35	171.79	2



15MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	23.20	1.22	24.42	276.69	2
26340	1880	23.26	1.22	24.48	280.54	2
26615	1907.5	23.19	1.22	24.41	276.06	2

15MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	22.20	1.22	23.42	219.79	2
26340	1880	22.29	1.22	23.51	224.39	2
26615	1907.5	22.03	1.22	23.25	211.35	2

15MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	21.27	1.22	22.49	177.42	2
26340	1880	21.28	1.22	22.50	177.83	2
26615	1907.5	21.18	1.22	22.40	173.78	2

20MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	23.27	1.22	24.49	281.19	2
26340	1880	23.29	1.22	24.51	282.49	2
26590	1905	23.18	1.22	24.40	275.42	2

20MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	22.29	1.22	23.51	224.39	2
26340	1880	22.33	1.22	23.55	226.46	2
26590	1905	22.19	1.22	23.41	219.28	2

20MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	21.34	1.22	22.56	180.30	2
26340	1880	21.44	1.22	22.66	184.50	2
26590	1905	21.29	1.22	22.51	178.24	2

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



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NR BAND N2

n2 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	372000	1860	22.77	1.35	24.12	258.23	2
	376000	1880	22.86	1.35	24.21	263.63	2
	380000	1900	22.82	1.35	24.17	261.22	2
20M-QPSK	372000	1860	22.83	1.35	24.18	261.82	2
	376000	1880	22.89	1.35	24.24	265.46	2
	380000	1900	22.84	1.35	24.19	262.42	2
20M- 16QAM	372000	1860	21.73	1.35	23.08	203.24	2
	376000	1880	21.94	1.35	23.29	213.30	2
	380000	1900	21.80	1.35	23.15	206.54	2
20M- 64QAM	372000	1860	20.19	1.35	21.54	142.56	2
	376000	1880	20.37	1.35	21.72	148.59	2
	380000	1900	20.26	1.35	21.61	144.88	2
20M- 256QAM	372000	1860	18.74	1.35	20.09	102.09	2
	376000	1880	18.88	1.35	20.23	105.44	2
	380000	1900	18.83	1.35	20.18	104.23	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	371500	1857.5	22.66	1.35	24.01	251.77	2
	376000	1880	22.78	1.35	24.13	258.82	2
	380500	1902.5	22.76	1.35	24.11	257.63	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	371000	1855	22.77	1.35	24.12	258.23	2
	376000	1880	22.87	1.35	24.22	264.24	2
	381000	1905	22.82	1.35	24.17	261.22	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	370500	1852.5	22.71	1.35	24.06	254.68	2
	376000	1880	22.78	1.35	24.13	258.82	2
	381500	1907.5	22.71	1.35	24.06	254.68	2



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NR BAND N25

n25 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	372000	1860	22.92	1.35	24.27	267.30	2
	376500	1882.5	23.03	1.35	24.38	274.16	2
	381000	1905	22.90	1.35	24.25	266.07	2
20M-QPSK	372000	1860	22.96	1.35	24.31	269.77	2
	376500	1882.5	23.06	1.35	24.41	276.06	2
	381000	1905	22.93	1.35	24.28	267.92	2
20M- 16QAM	372000	1860	21.52	1.35	22.87	193.64	2
	376500	1882.5	21.63	1.35	22.98	198.61	2
	381000	1905	21.53	1.35	22.88	194.09	2
20M- 64QAM	372000	1860	20.32	1.35	21.67	146.89	2
	376500	1882.5	20.51	1.35	21.86	153.46	2
	381000	1905	20.41	1.35	21.76	149.97	2
20M- 256QAM	372000	1860	19.00	1.35	20.35	108.39	2
	376500	1882.5	19.07	1.35	20.42	110.15	2
	381000	1905	18.88	1.35	20.23	105.44	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	371500	1857.5	22.91	1.35	24.26	266.69	2
	376500	1882.5	22.87	1.35	24.22	264.24	2
	381500	1907.5	22.86	1.35	24.21	263.63	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	371000	1855	22.94	1.35	24.29	268.53	2
	376500	1882.5	22.87	1.35	24.22	264.24	2
	382000	1910	22.73	1.35	24.08	255.86	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	370500	1852.5	22.85	1.35	24.20	263.03	2
	376500	1882.5	22.89	1.35	24.24	265.46	2
	382500	1912.5	22.84	1.35	24.19	262.42	2



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

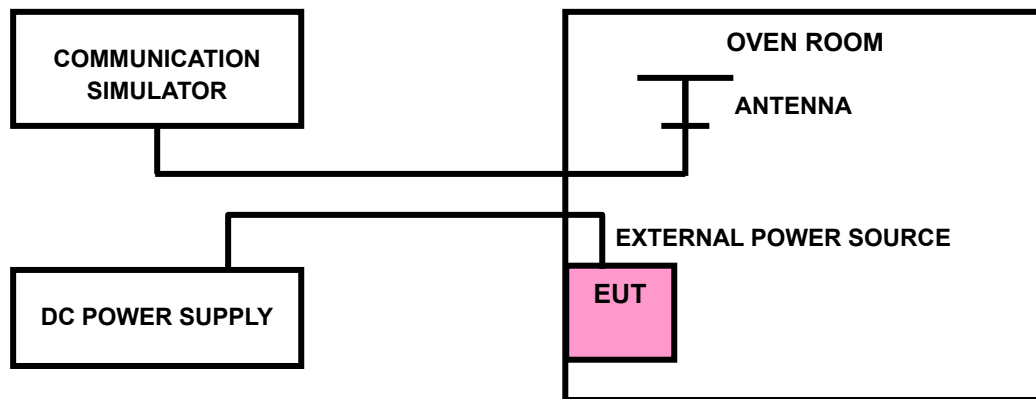
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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



3.2.4 TEST RESULTS

Please Refer to Appendix of this test report.

Note: VL = Low voltage(3.3V); VN/NV = Normal voltage(3.8V); VH = High voltage(4.35V); NT = Normal temperature (25°C)

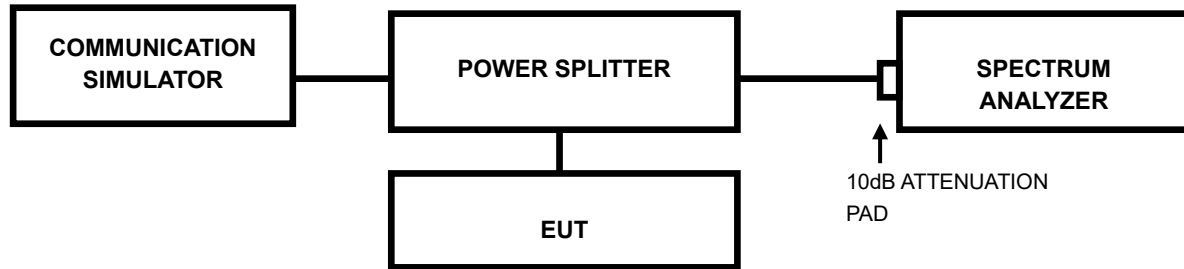


3.3 OCCUPIED BANDWIDTH MEASUREMENT

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.

3.3.4 TEST RESULTS

Please Refer to Appendix of this test report.

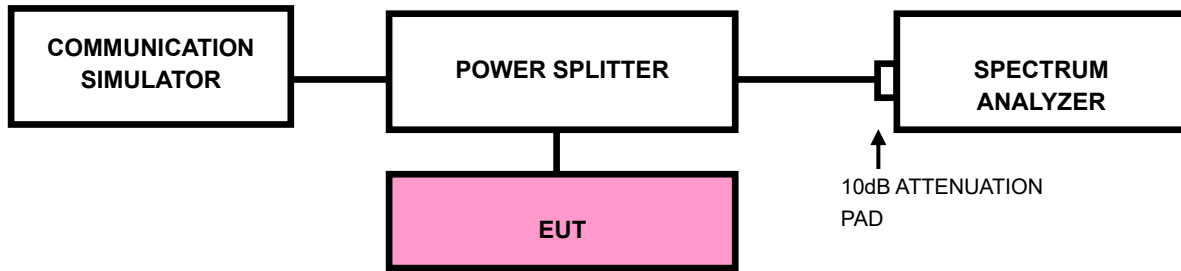


3.4 BAND EDGE MEASUREMENTC

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP





3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth

(EBW)

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

3.4.4 TEST RESULTS

Please Refer to Appendix of this test report.



3.5 CONDUCTED SPURIOUS EMISSIONS

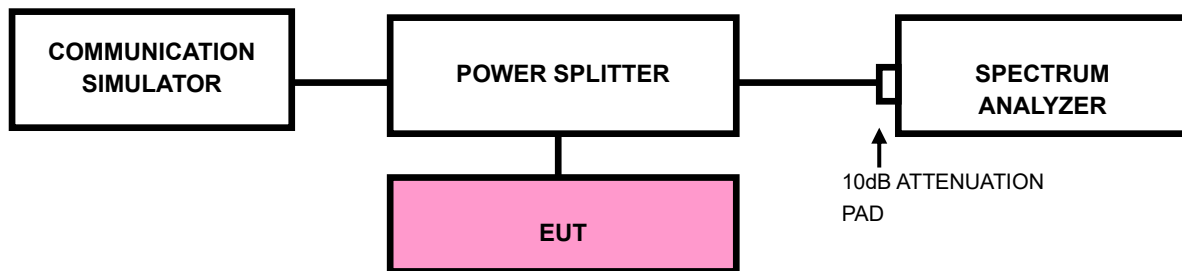
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 .

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30MHz 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



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 of this test report.



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 .

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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

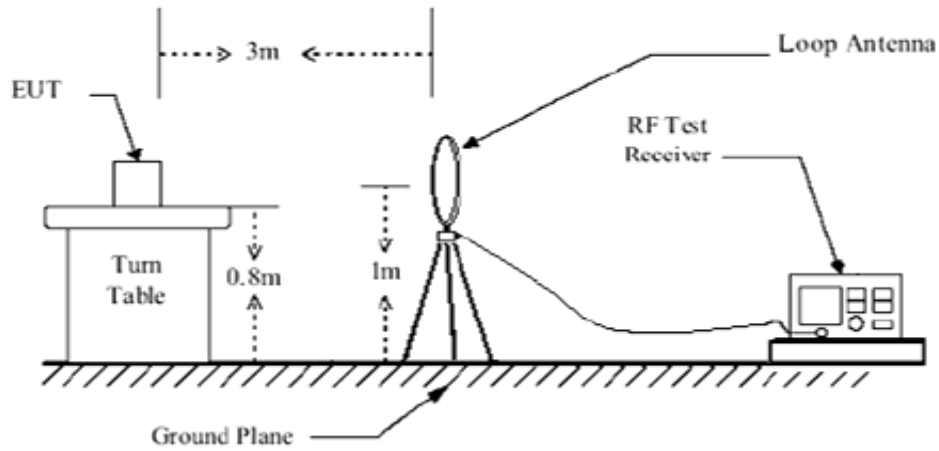
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

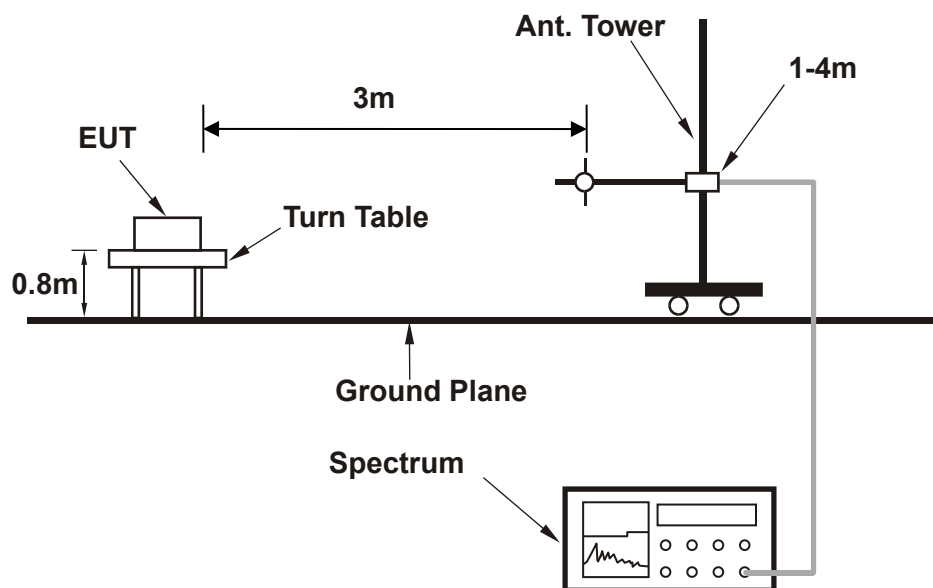


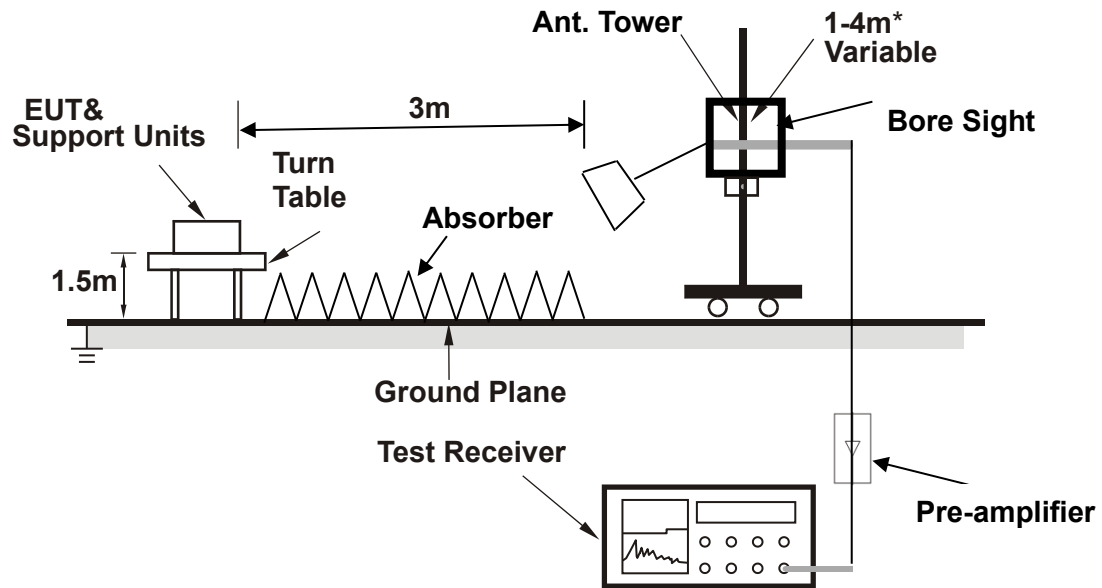
3.6.4 TEST SETUP

< Frequency Range below 30MHz >



< Frequency Range 30MHz~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).



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.

BELOW 1GHz WORST-CASE DATA

LTE BAND 2 CHANNEL BANDWIDTH									
MODE		TX channel 18900		FREQUENCY RANGE		30 MHz – 1GHz			
ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH		INPUT POWER		120Vac 60HZ			
TESTED BY		Hanwen 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	39.1198	-56.66	-61.24	-4.58	-13.00	48.24	Horizontal	PK	PASS
2	112.0784	-49.75	-67.14	-17.39	-13.00	54.14	Horizontal	PK	PASS
3	148.5577	-53.43	-70.25	-16.82	-13.00	57.25	Horizontal	PK	PASS
4	234.1288	-59.57	-64.58	-5.01	-13.00	51.58	Horizontal	PK	PASS
5	398.2857	-65.42	-67.74	-2.32	-13.00	54.74	Horizontal	PK	PASS
6	602.2204	-66.12	-67.37	-1.25	-13.00	54.37	Horizontal	PK	PASS

FCC PART 24

Level[dBm]

Frequency[Hz]

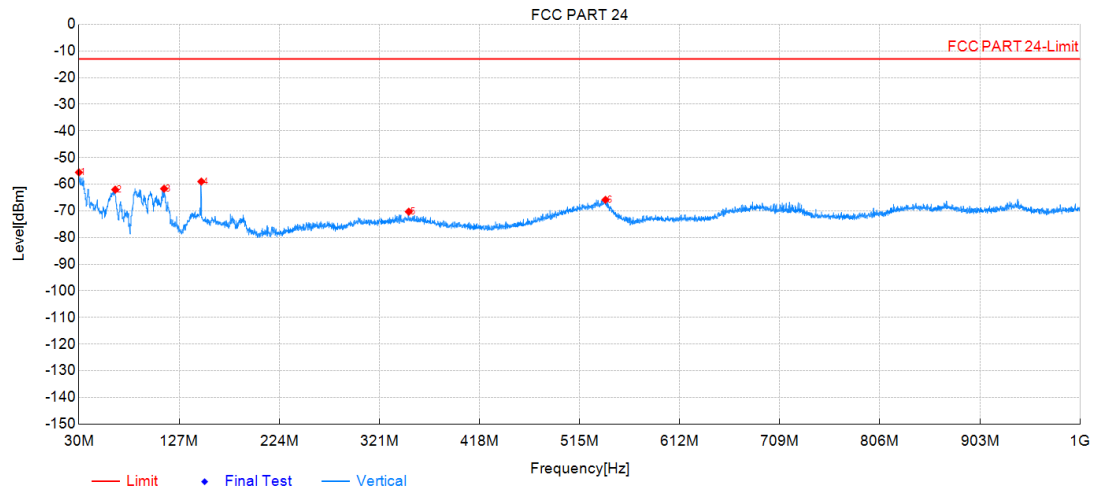
Limit Final Test Horizontal



MODE	TX channel 18900	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen 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	30	-47.58	-55.54	-7.96	-13.00	42.54	Vertical	PK	PASS
2	65.121	-42.91	-62.03	-19.12	-13.00	49.03	Vertical	PK	PASS
3	112.4665	-50.47	-61.68	-11.21	-13.00	48.68	Vertical	PK	PASS
4	148.5577	-49.08	-58.98	-9.90	-13.00	45.98	Vertical	PK	PASS
5	349.5819	-63.43	-70.31	-6.88	-13.00	57.31	Vertical	PK	PASS
6	540.128	-66.21	-65.86	0.35	-13.00	52.86	Vertical	PK	PASS





ABOVE 1GHz DATA

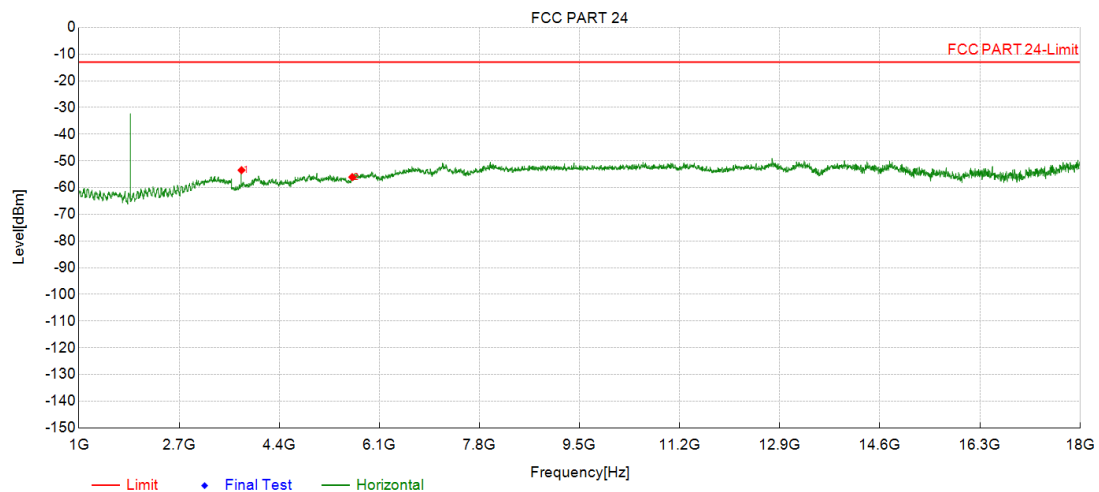
Note: For higher frequency, the emission is too low to be detected.

LTE Band 2

CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3760.7522	-52.38	-53.46	-1.08	-13.00	40.46	Horizontal	PK	PASS
2	5640.7281	-60.72	-56.07	4.65	-13.00	43.07	Horizontal	PK	PASS





CHANNEL BANDWIDTH		1.4MHz / QPSK		MODE		TX channel 18900			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		120Vac 60HZ		TESTED BY		Hanwen 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	3760.7522	-54.68	-55.76	-1.08	-13.00	42.76	Vertical	PK	PASS
2	5640.7281	-62.85	-58.40	4.45	-13.00	45.40	Vertical	PK	PASS

FCC PART 24

Level[dBm]

Frequency[Hz]

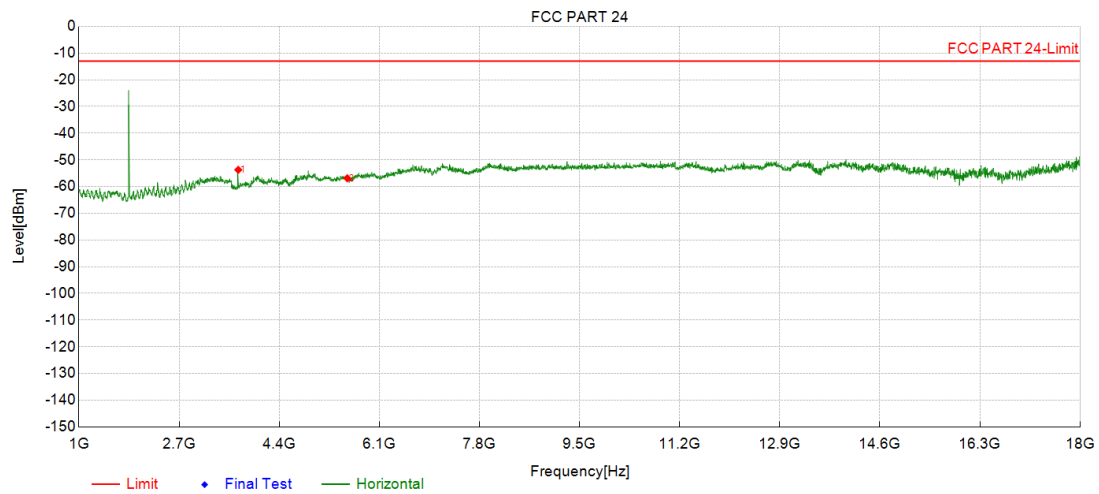
— Limit ♦ Final Test — Vertical



CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 18615
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3705.241	-52.23	-53.71	-1.48	-13.00	40.71	Horizontal	PK	PASS
2	5555.6111	-61.07	-56.86	4.21	-13.00	43.86	Horizontal	PK	PASS

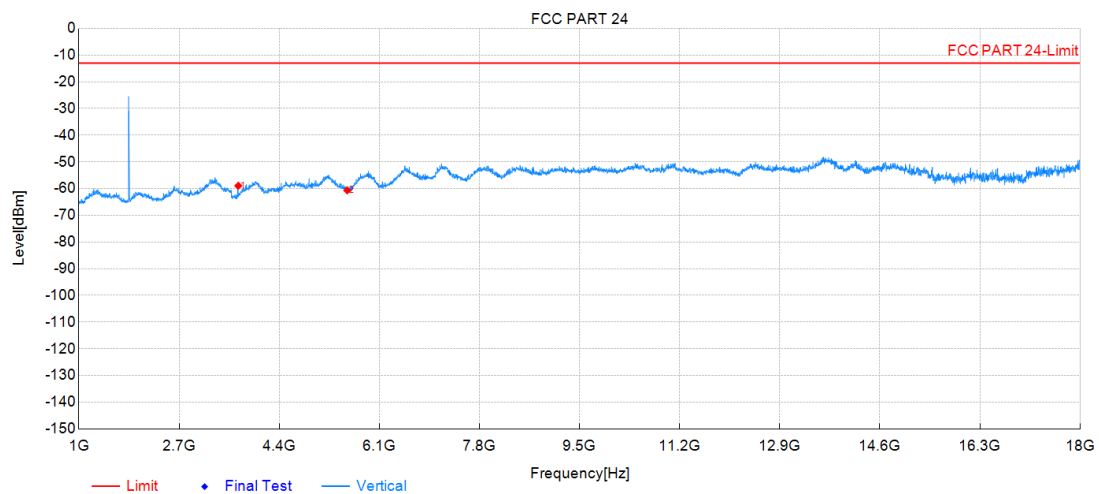




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 18615
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3705.241	-57.48	-58.93	-1.45	-13.00	45.93	Vertical	PK	PASS
2	5555.6111	-64.57	-60.63	3.94	-13.00	47.63	Vertical	PK	PASS



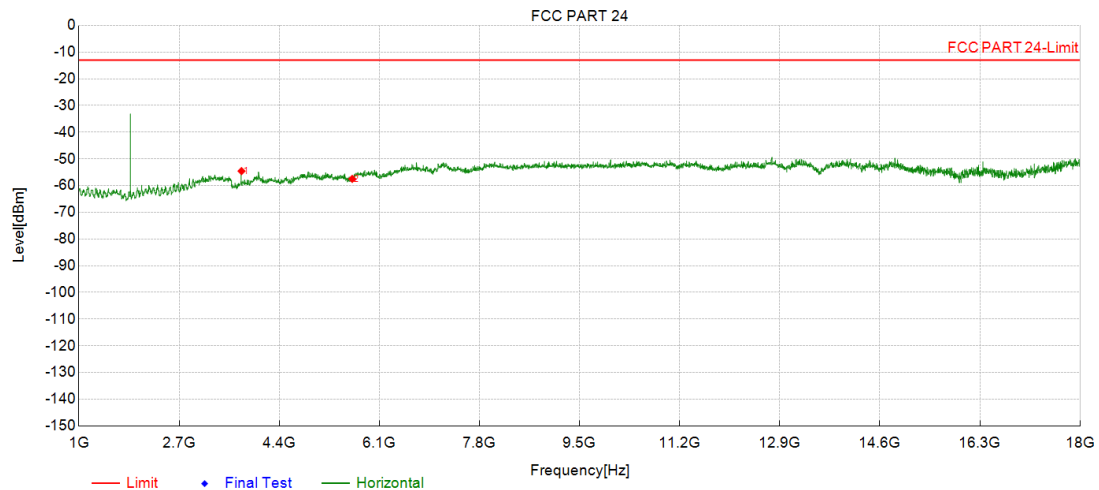


BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF02

CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3760.7522	-53.48	-54.56	-1.08	-13.00	41.56	Horizontal	PK	PASS
2	5640.7281	-62.12	-57.47	4.65	-13.00	44.47	Horizontal	PK	PASS

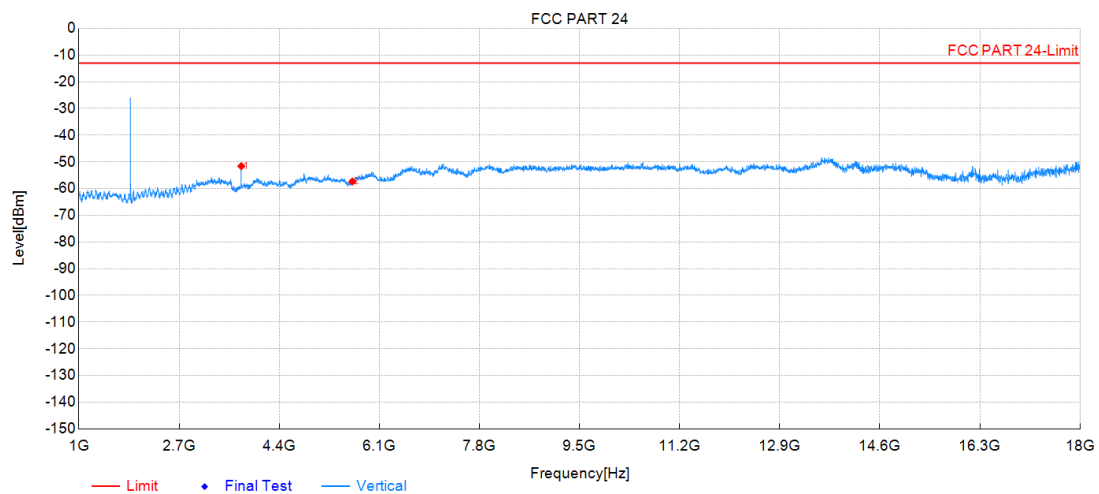




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3757.0514	-50.48	-51.59	-1.11	-13.00	38.59	Vertical	PK	PASS
2	5640.7281	-61.84	-57.35	4.49	-13.00	44.35	Vertical	PK	PASS

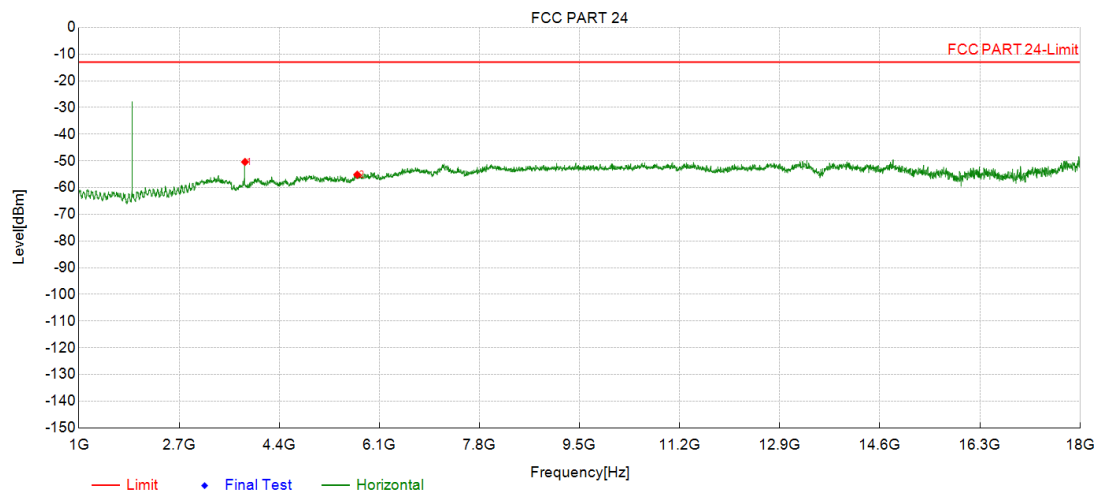




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 19185
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3819.964	-49.69	-50.38	-0.69	-13.00	37.38	Horizontal	PK	PASS
2	5725.8452	-60.54	-55.16	5.38	-13.00	42.16	Horizontal	PK	PASS

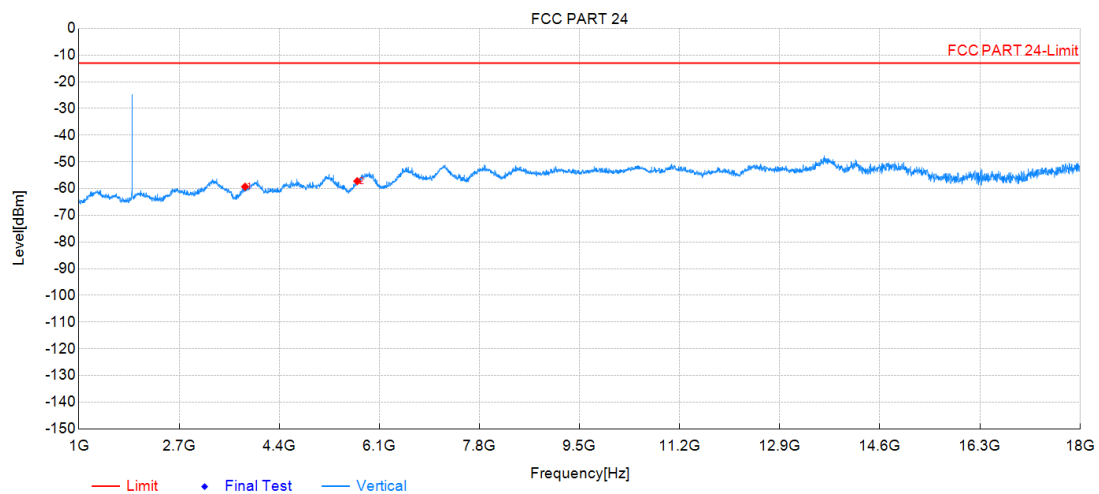




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 19185
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3819.964	-58.58	-59.29	-0.71	-13.00	46.29	Vertical	PK	PASS
2	5725.8452	-62.70	-57.20	5.50	-13.00	44.20	Vertical	PK	PASS

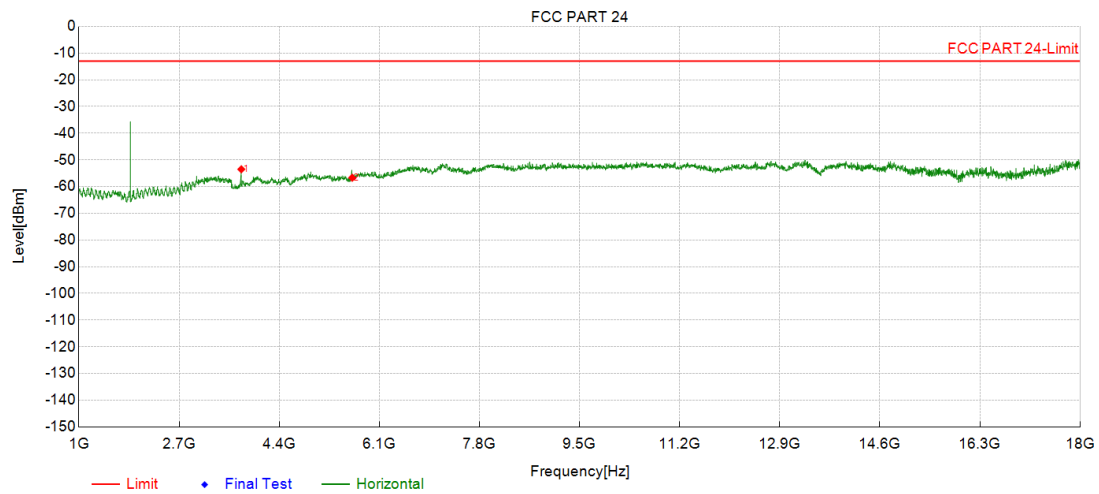




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3757.0514	-52.40	-53.51	-1.11	-13.00	40.51	Horizontal	PK	PASS
2	5640.7281	-61.32	-56.67	4.65	-13.00	43.67	Horizontal	PK	PASS

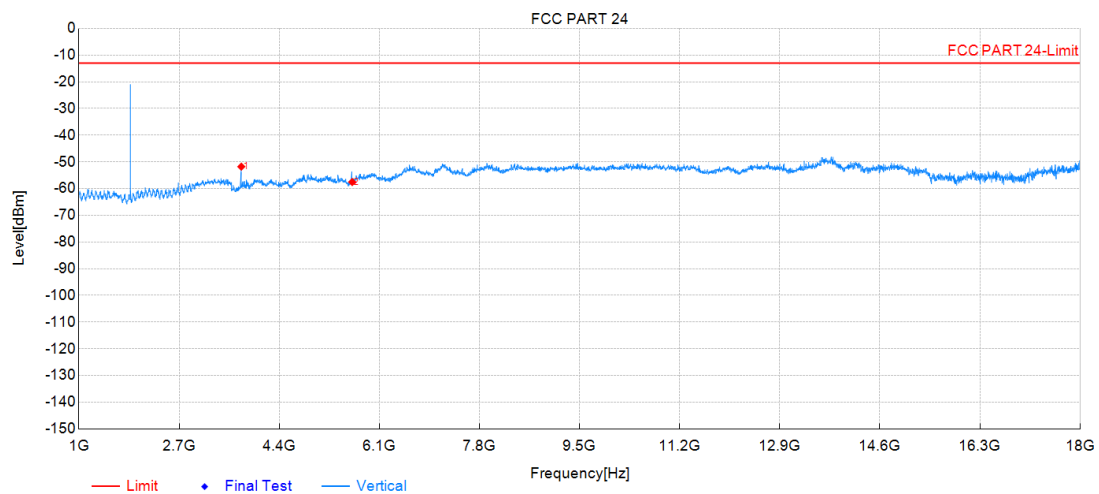




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3757.0514	-50.66	-51.77	-1.11	-13.00	38.77	Vertical	PK	PASS
2	5640.7281	-61.97	-57.52	4.45	-13.00	44.52	Vertical	PK	PASS

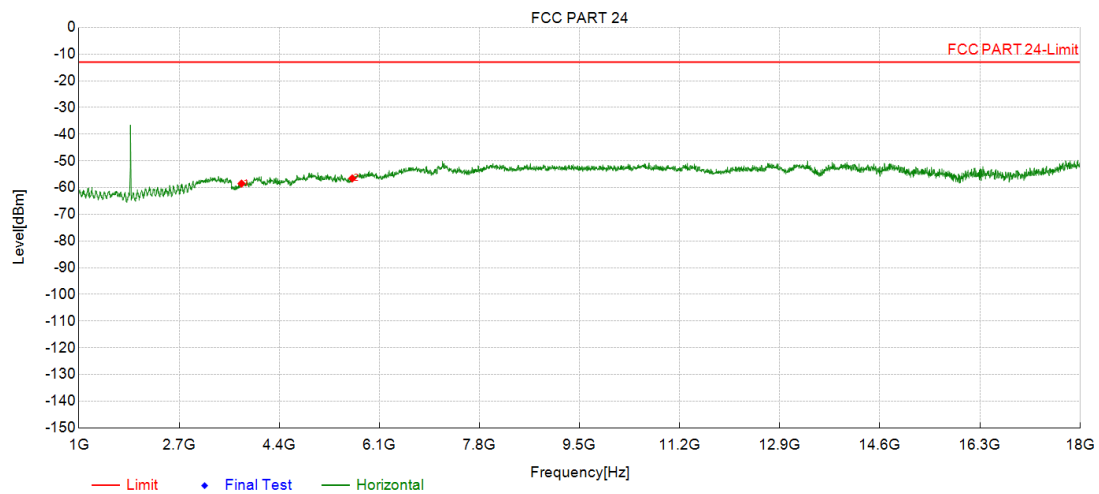




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3760.7522	-57.41	-58.49	-1.08	-13.00	45.49	Horizontal	PK	PASS
2	5640.7281	-61.20	-56.55	4.65	-13.00	43.55	Horizontal	PK	PASS

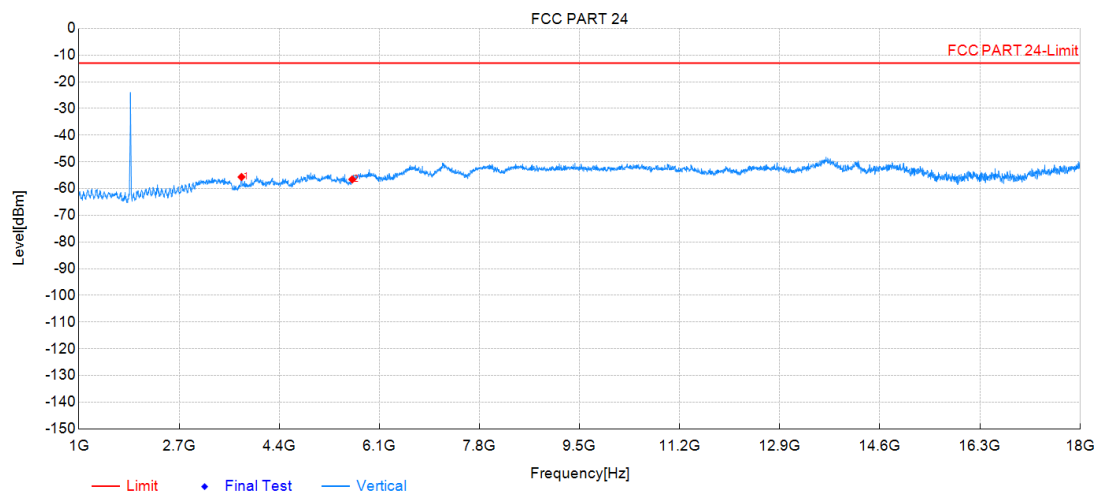




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3760.7522	-54.56	-55.64	-1.08	-13.00	42.64	Vertical	PK	PASS
2	5640.7281	-61.00	-56.55	4.45	-13.00	43.55	Vertical	PK	PASS

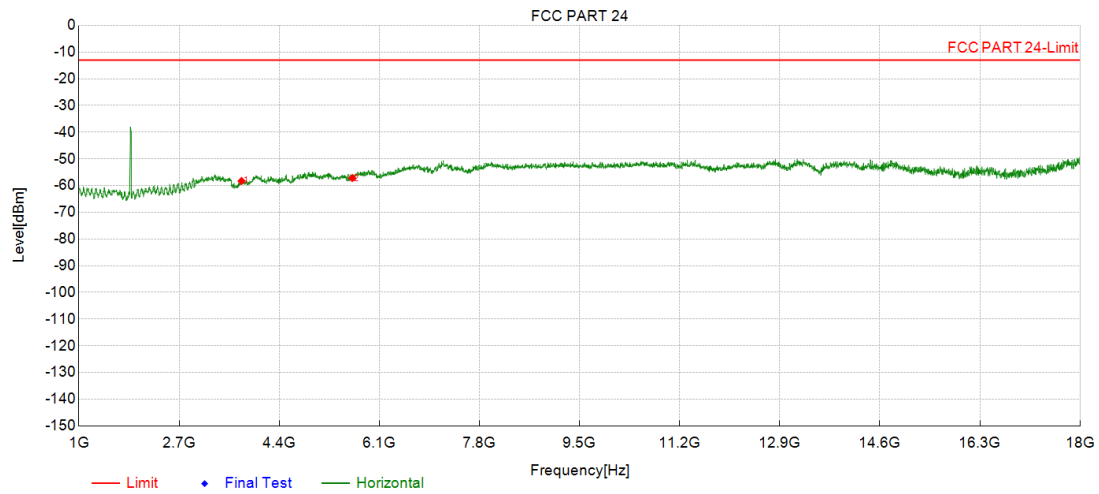




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3760.7522	-57.19	-58.27	-1.08	-13.00	45.27	Horizontal	PK	PASS
2	5640.7281	-61.81	-57.16	4.65	-13.00	44.16	Horizontal	PK	PASS

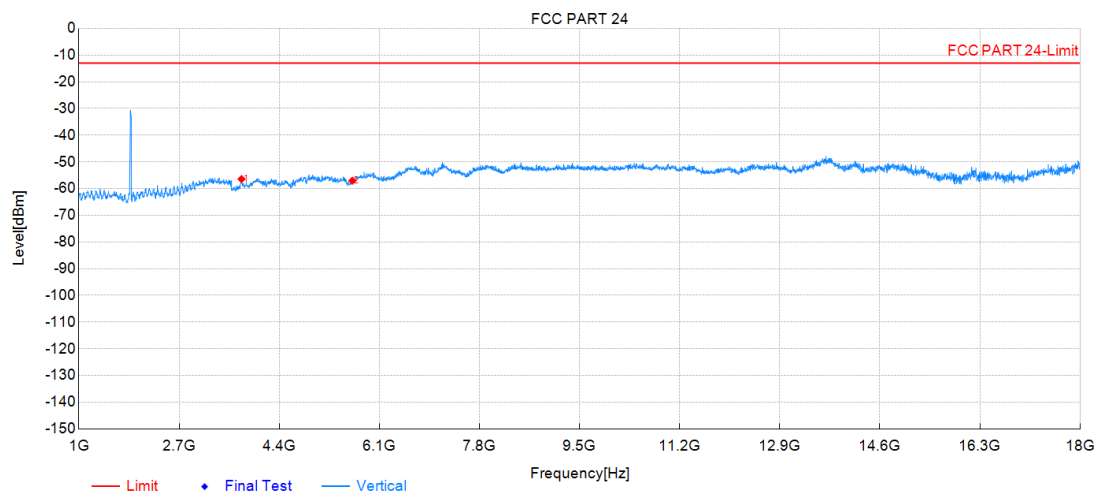




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3760.7522	-55.34	-56.42	-1.08	-13.00	43.42	Vertical	PK	PASS
2	5640.7281	-61.50	-57.05	4.45	-13.00	44.05	Vertical	PK	PASS

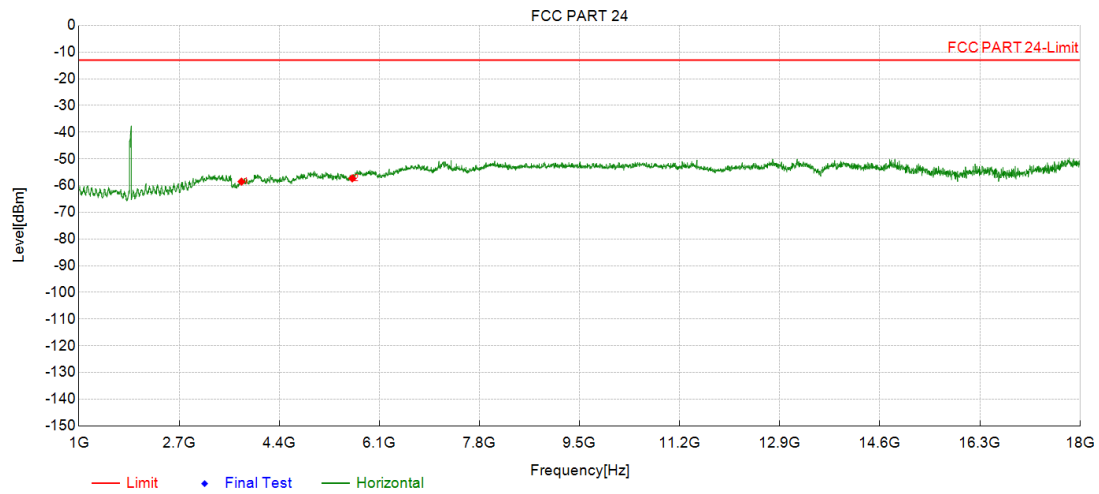




CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3760.7522	-57.43	-58.51	-1.08	-13.00	45.51	Horizontal	PK	PASS
2	5640.7281	-61.93	-57.28	4.65	-13.00	44.28	Horizontal	PK	PASS

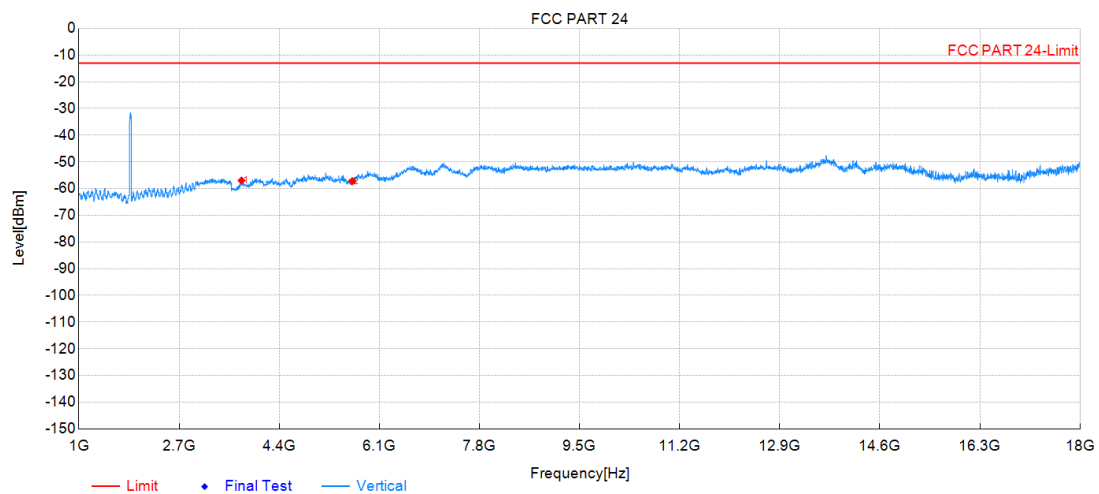


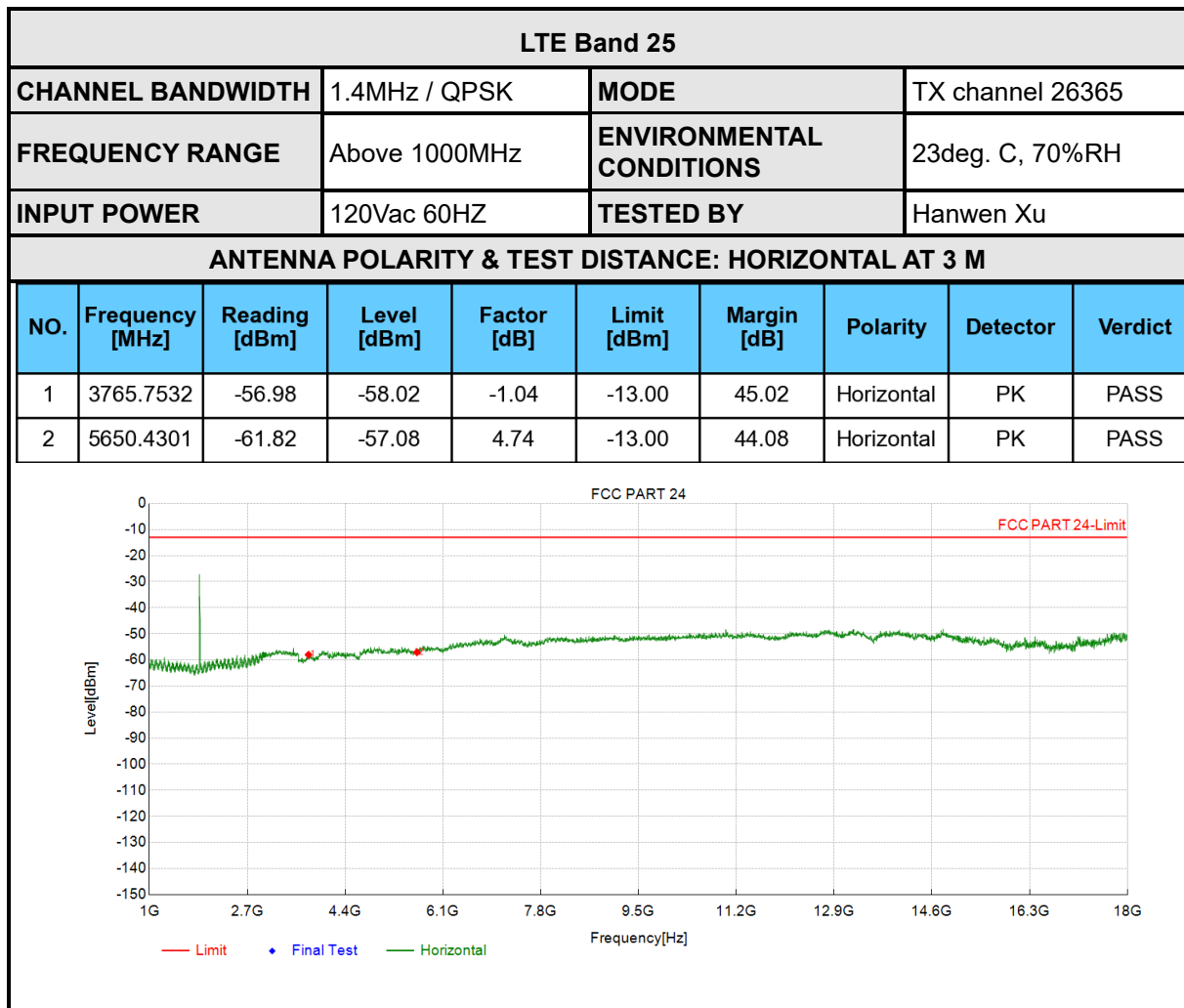


CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 18900
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3760.7522	-55.89	-56.97	-1.08	-13.00	43.97	Vertical	PK	PASS
2	5640.7281	-61.72	-57.23	4.49	-13.00	44.23	Vertical	PK	PASS







CHANNEL BANDWIDTH		1.4MHz / QPSK		MODE		TX channel 26365			
FREQUENCY RANGE		Above 1000MHz		ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			
INPUT POWER		120Vac 60HZ		TESTED BY		Hanwen 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	3765.7532	-55.99	-57.03	-1.04	-13.00	44.03	Vertical	PK	PASS
2	5647.1294	-58.32	-53.80	4.52	-13.00	40.80	Vertical	PK	PASS

FCC PART 24

Level[dBm]

Frequency[Hz]

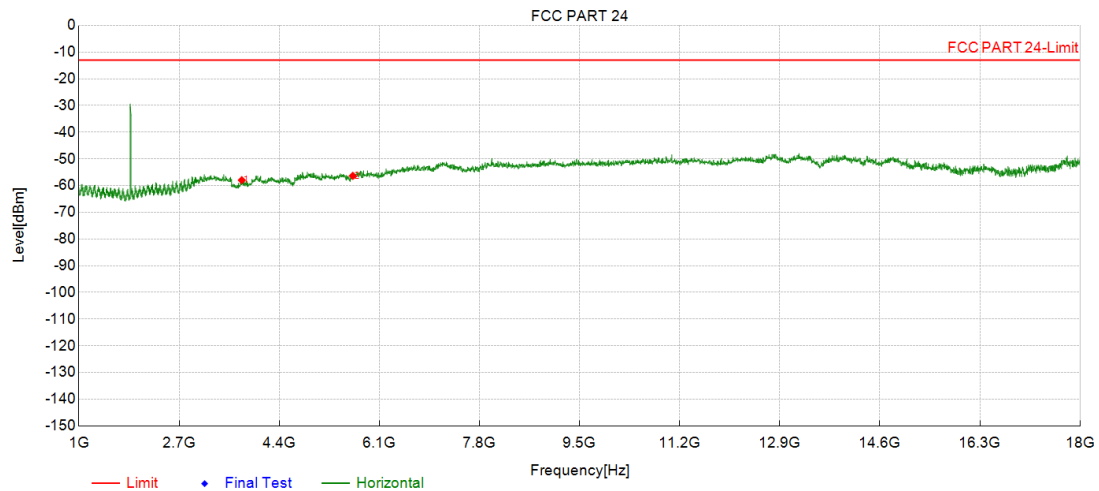
— Limit ♦ Final Test — Vertical

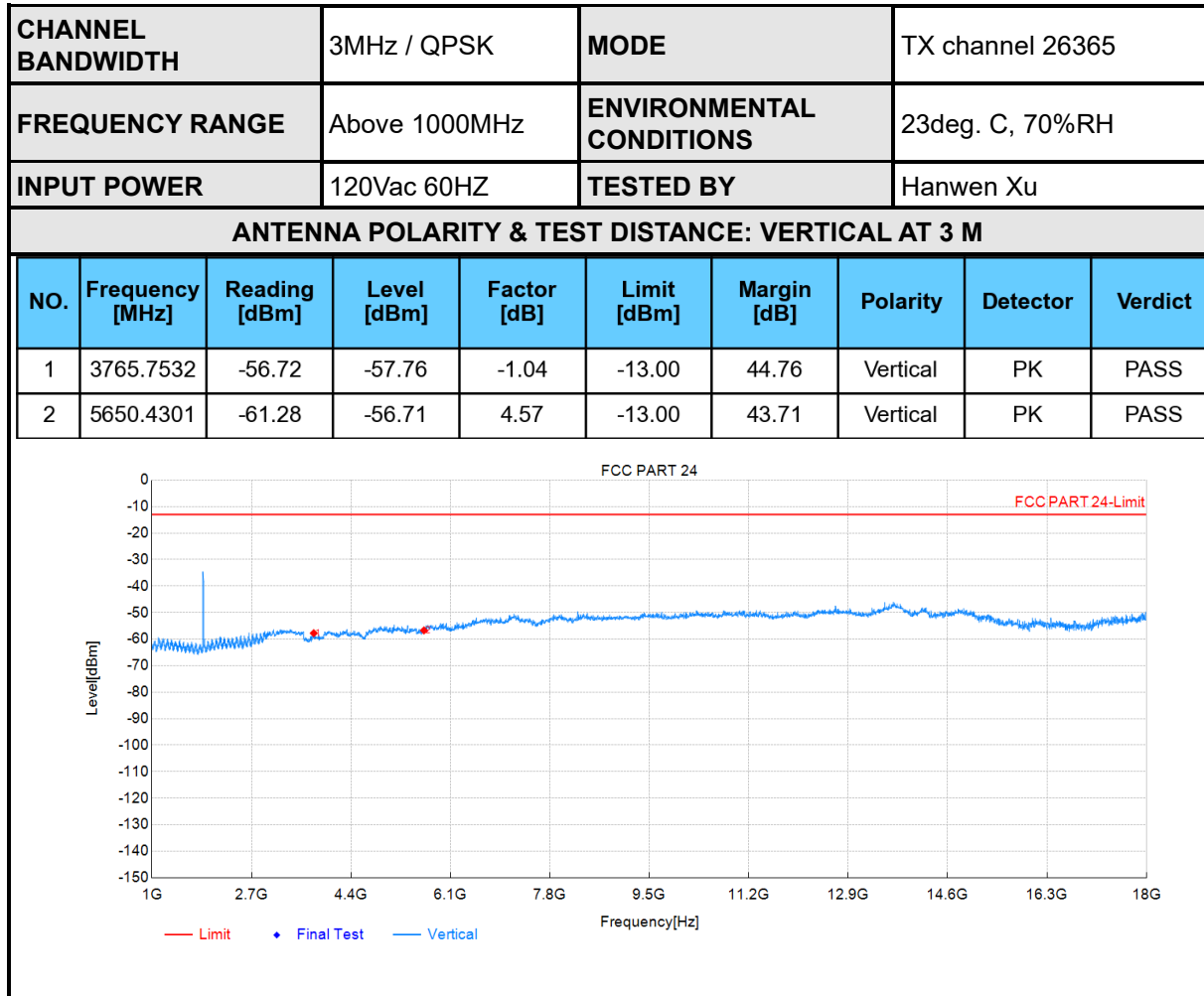


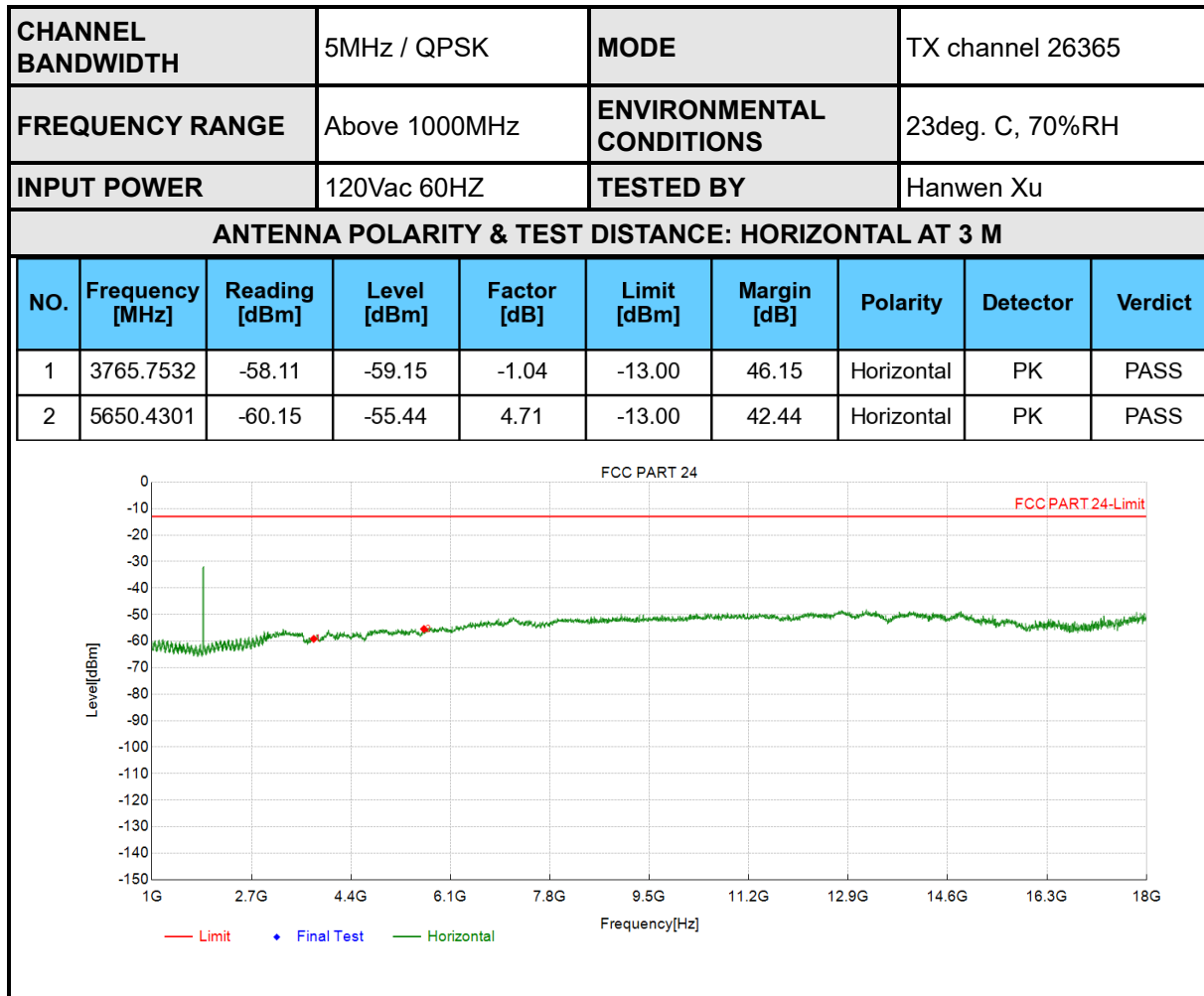
CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3765.7532	-56.92	-57.96	-1.04	-13.00	44.96	Horizontal	PK	PASS
2	5650.4301	-61.07	-56.33	4.74	-13.00	43.33	Horizontal	PK	PASS





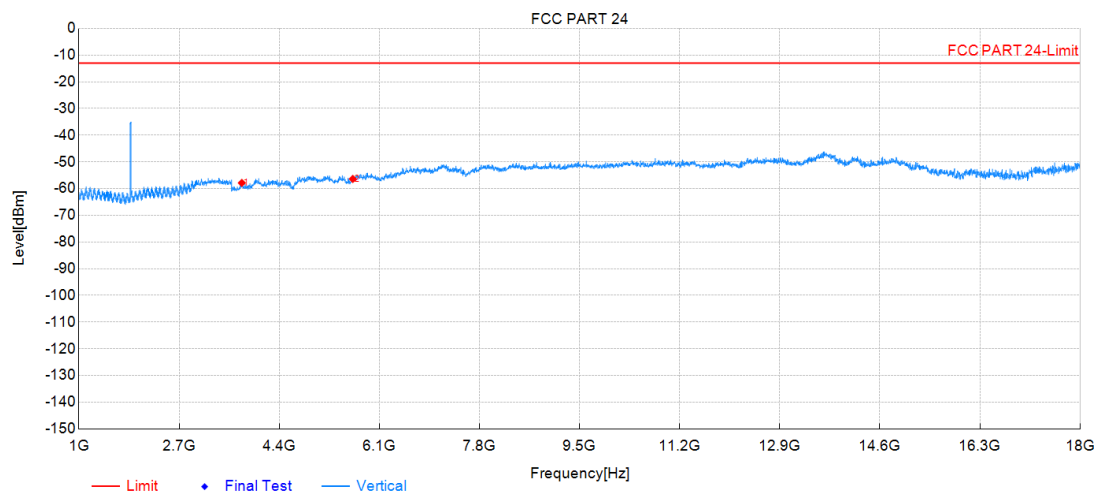


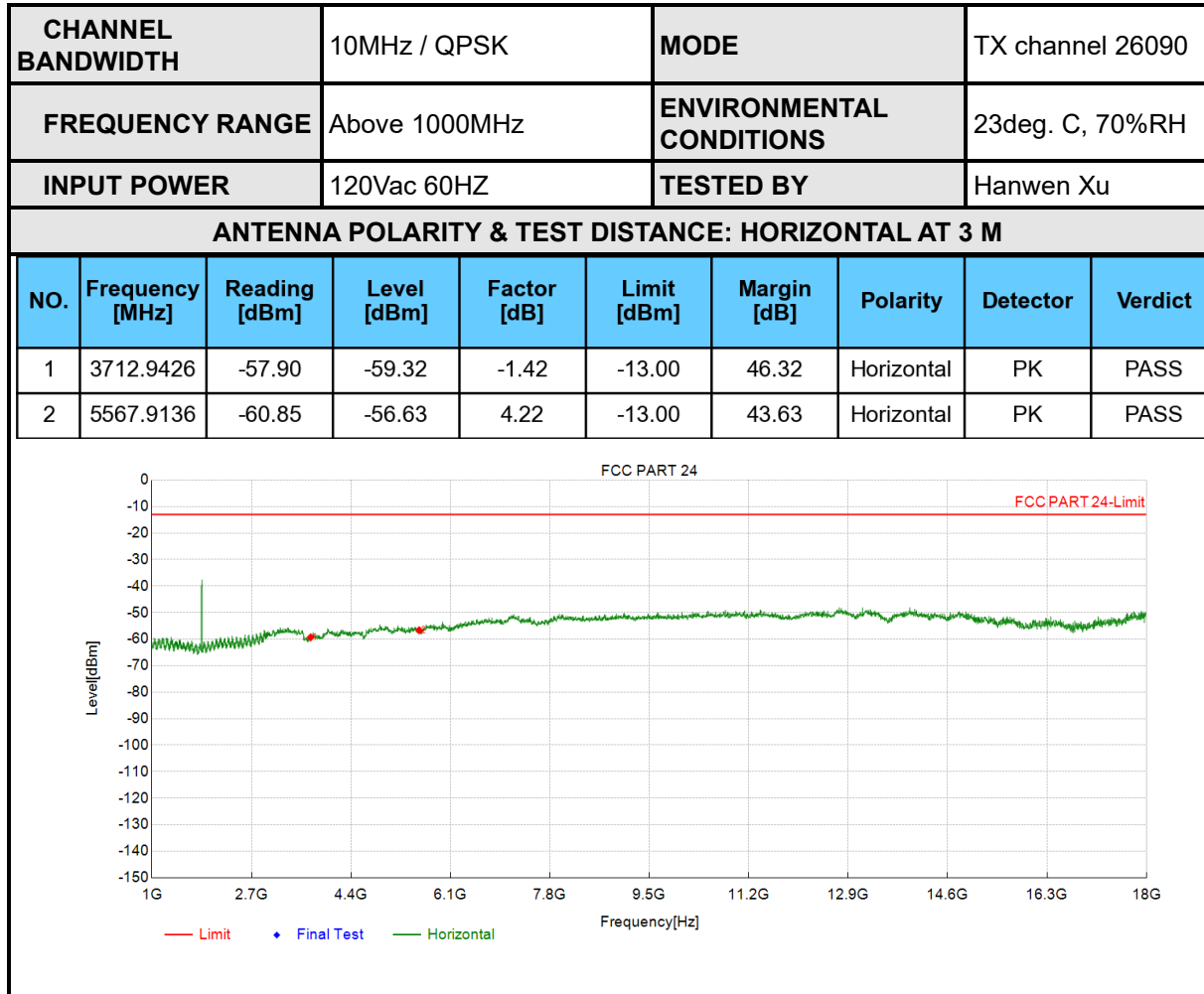


CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3765.7532	-56.82	-57.86	-1.04	-13.00	44.86	Vertical	PK	PASS
2	5650.4301	-60.94	-56.37	4.57	-13.00	43.37	Vertical	PK	PASS



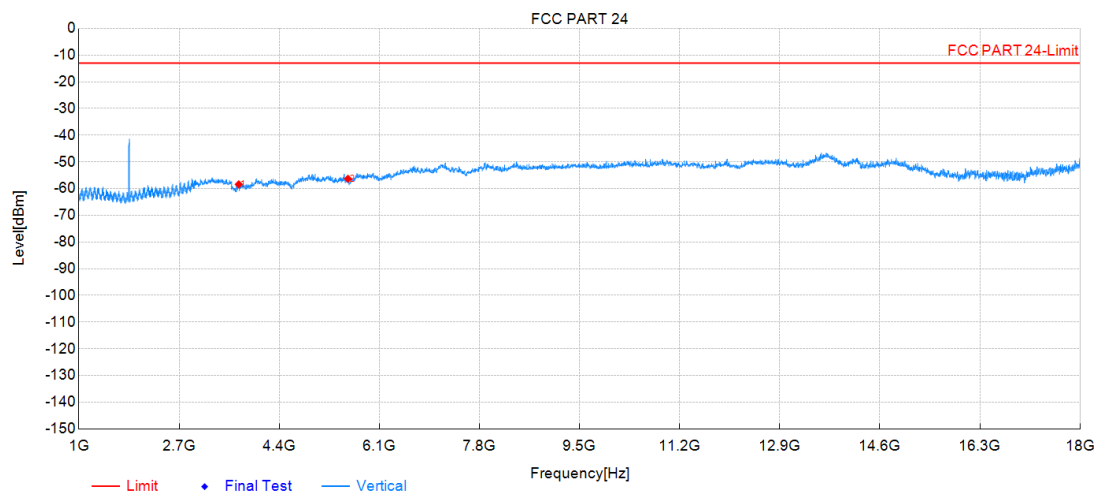




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26090
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3712.9426	-57.02	-58.40	-1.38	-13.00	45.40	Vertical	PK	PASS
2	5567.9136	-60.26	-56.30	3.96	-13.00	43.30	Vertical	PK	PASS

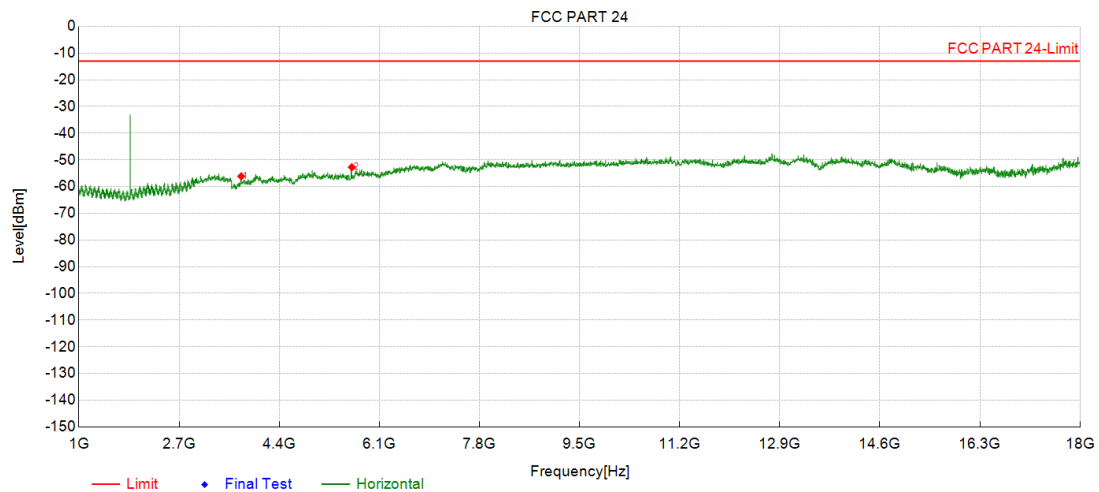


**Test Report No.: PSU-QBJ2512030110RF02**

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3755.8512	-55.01	-56.13	-1.12	-13.00	43.13	Horizontal	PK	PASS
2	5633.9268	-57.27	-52.71	4.56	-13.00	39.71	Horizontal	PK	PASS

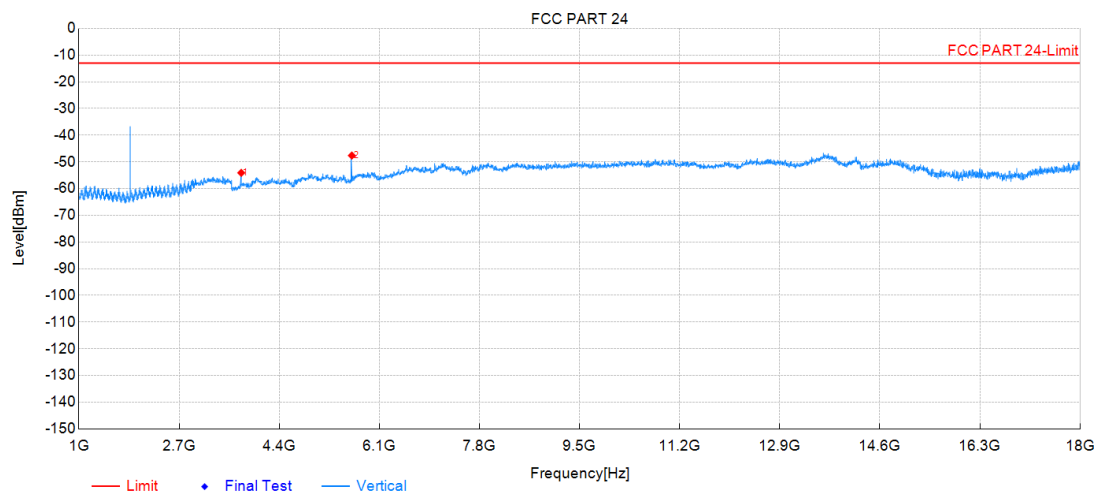




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3755.8512	-52.98	-54.09	-1.11	-13.00	41.09	Vertical	PK	PASS
2	5633.9268	-51.97	-47.60	4.37	-13.00	34.60	Vertical	PK	PASS

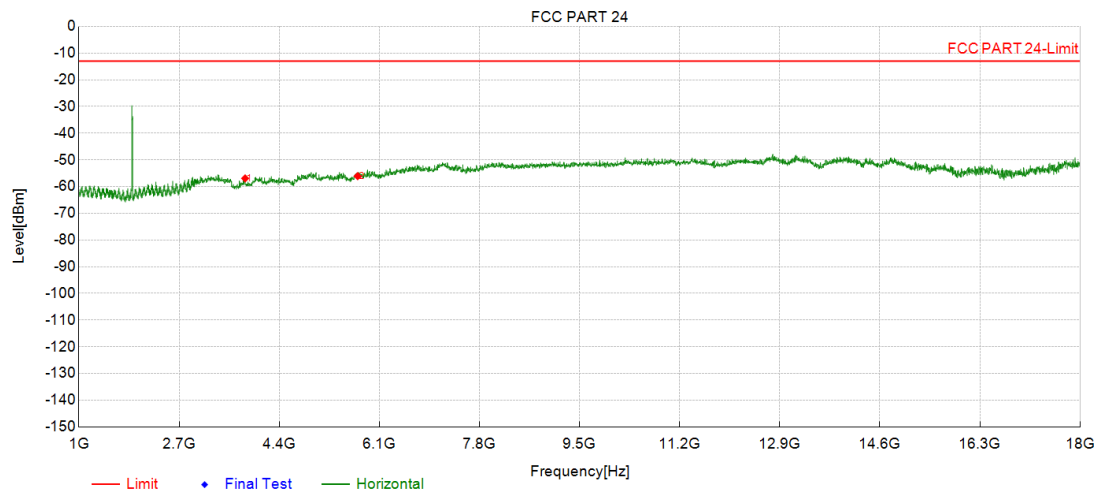


**Test Report No.: PSU-QBJ2512030110RF02**

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26640
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3821.8644	-56.23	-56.91	-0.68	-13.00	43.91	Horizontal	PK	PASS
2	5732.9466	-61.55	-56.08	5.47	-13.00	43.08	Horizontal	PK	PASS

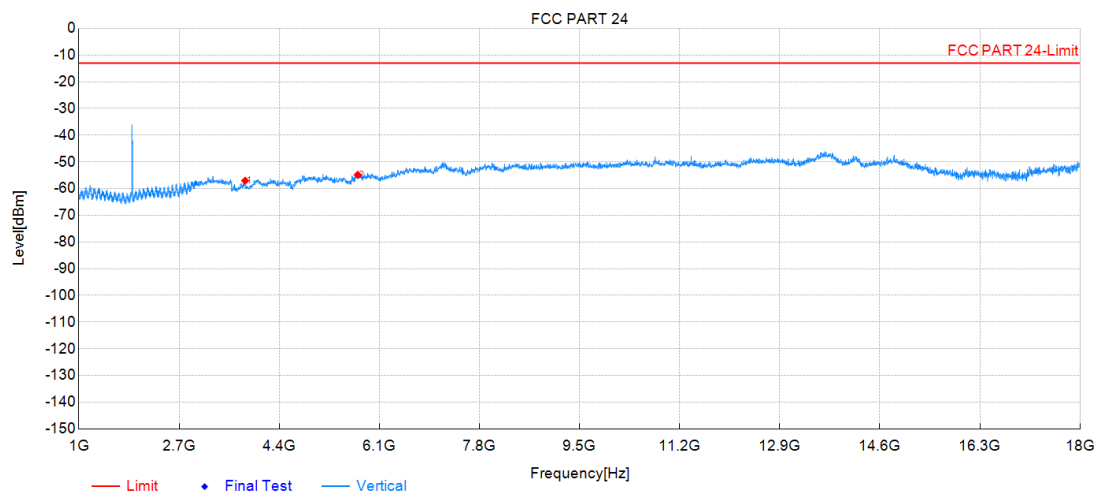




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26640
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3821.8644	-56.34	-57.04	-0.70	-13.00	44.04	Vertical	PK	PASS
2	5732.9466	-60.41	-54.83	5.58	-13.00	41.83	Vertical	PK	PASS

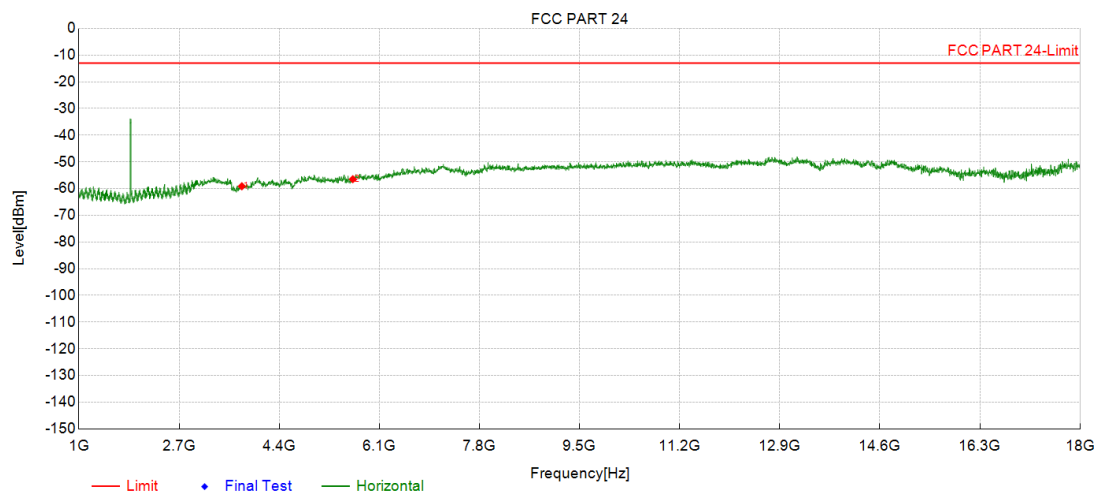




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3765.7532	-58.10	-59.12	-1.02	-13.00	46.12	Horizontal	PK	PASS
2	5650.4301	-61.20	-56.46	4.74	-13.00	43.46	Horizontal	PK	PASS

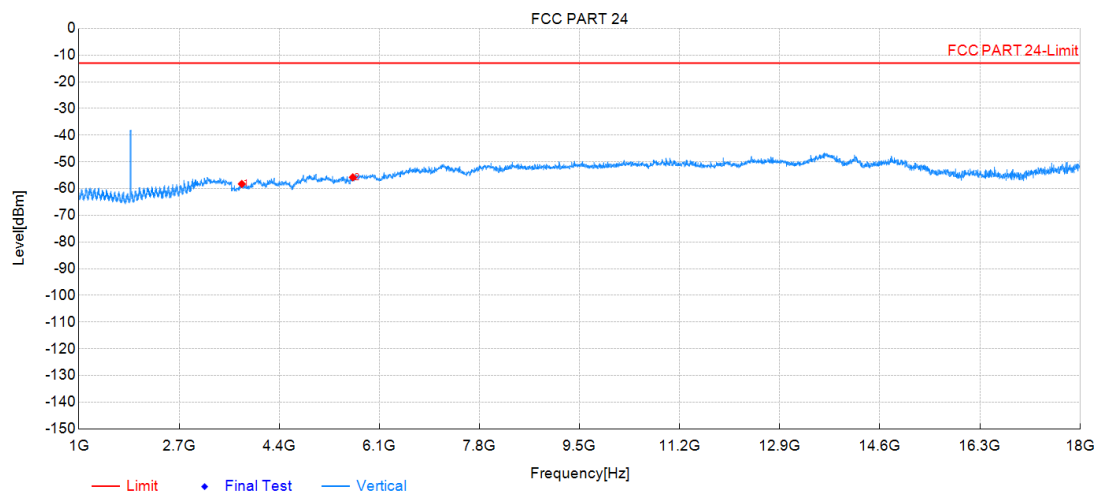


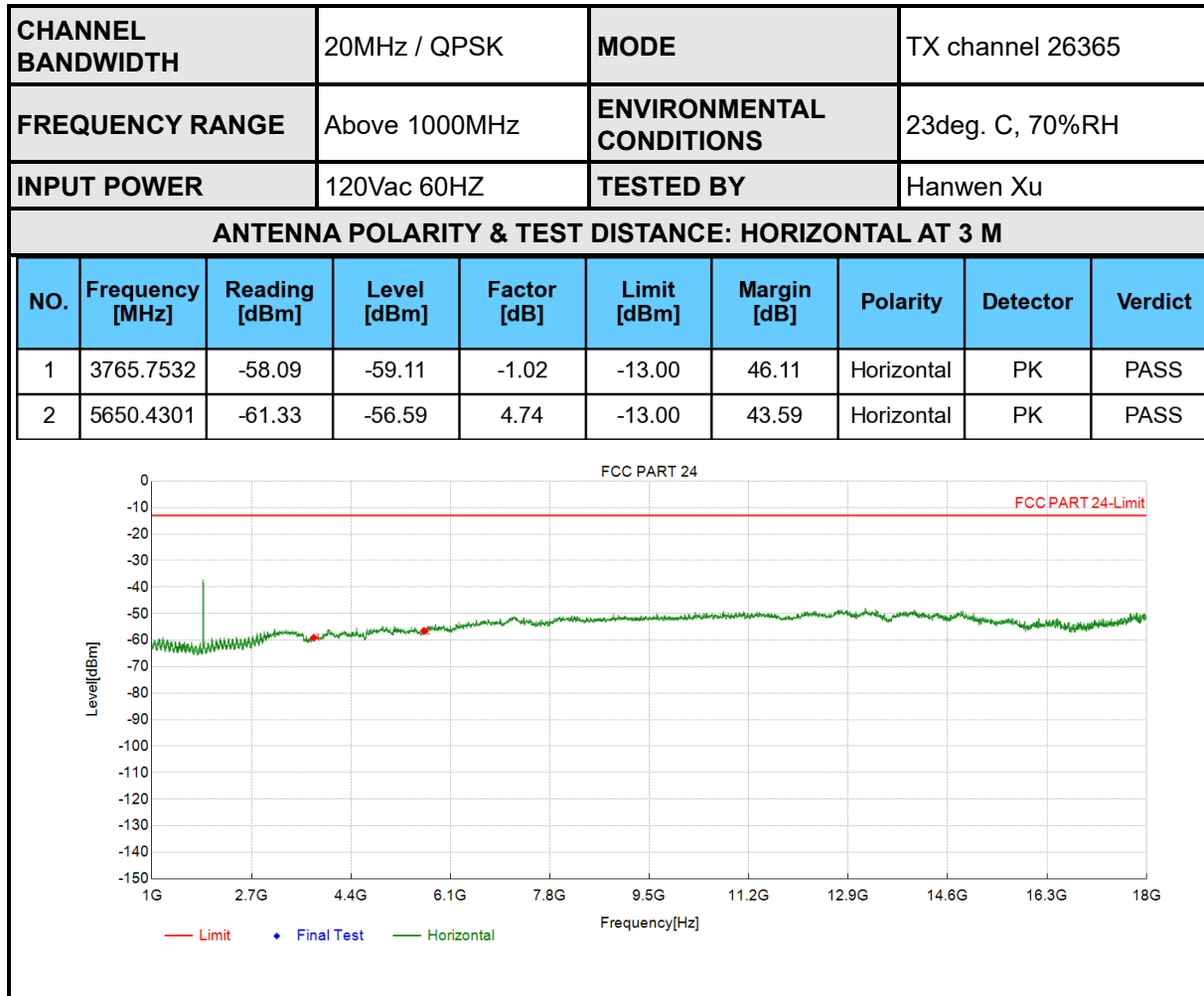


CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3765.7532	-57.23	-58.25	-1.02	-13.00	45.25	Vertical	PK	PASS
2	5650.4301	-60.36	-55.76	4.60	-13.00	42.76	Vertical	PK	PASS



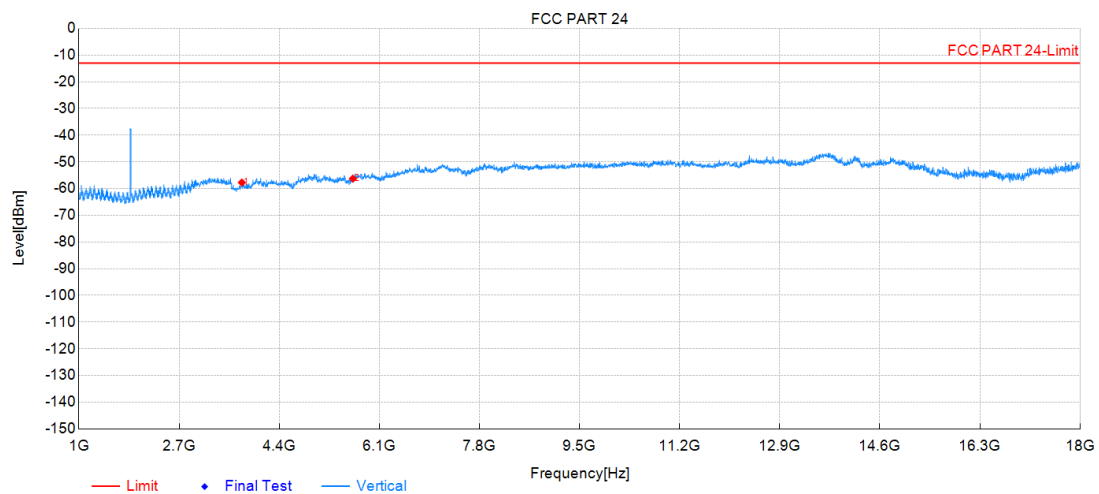




CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3765.7532	-56.71	-57.73	-1.02	-13.00	44.73	Vertical	PK	PASS
2	5650.4301	-60.82	-56.25	4.57	-13.00	43.25	Vertical	PK	PASS

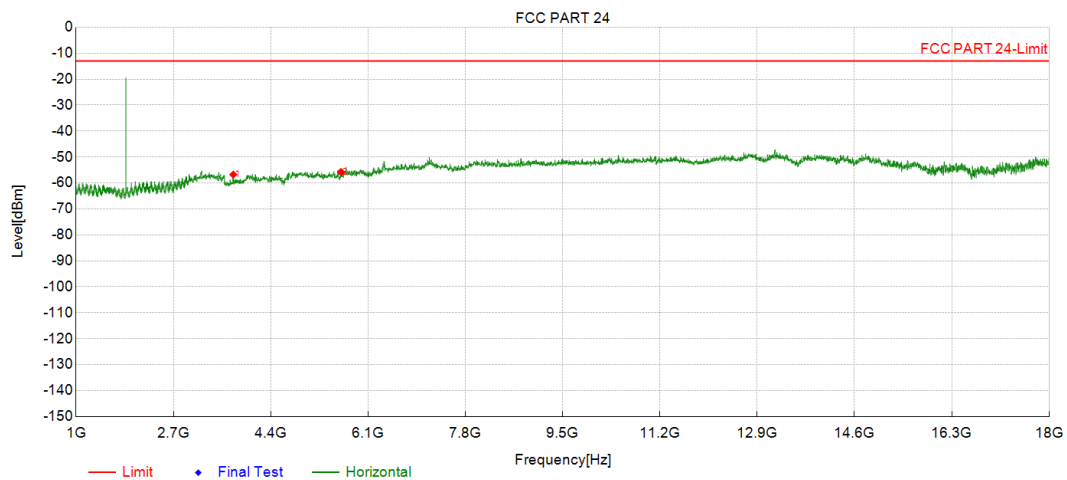


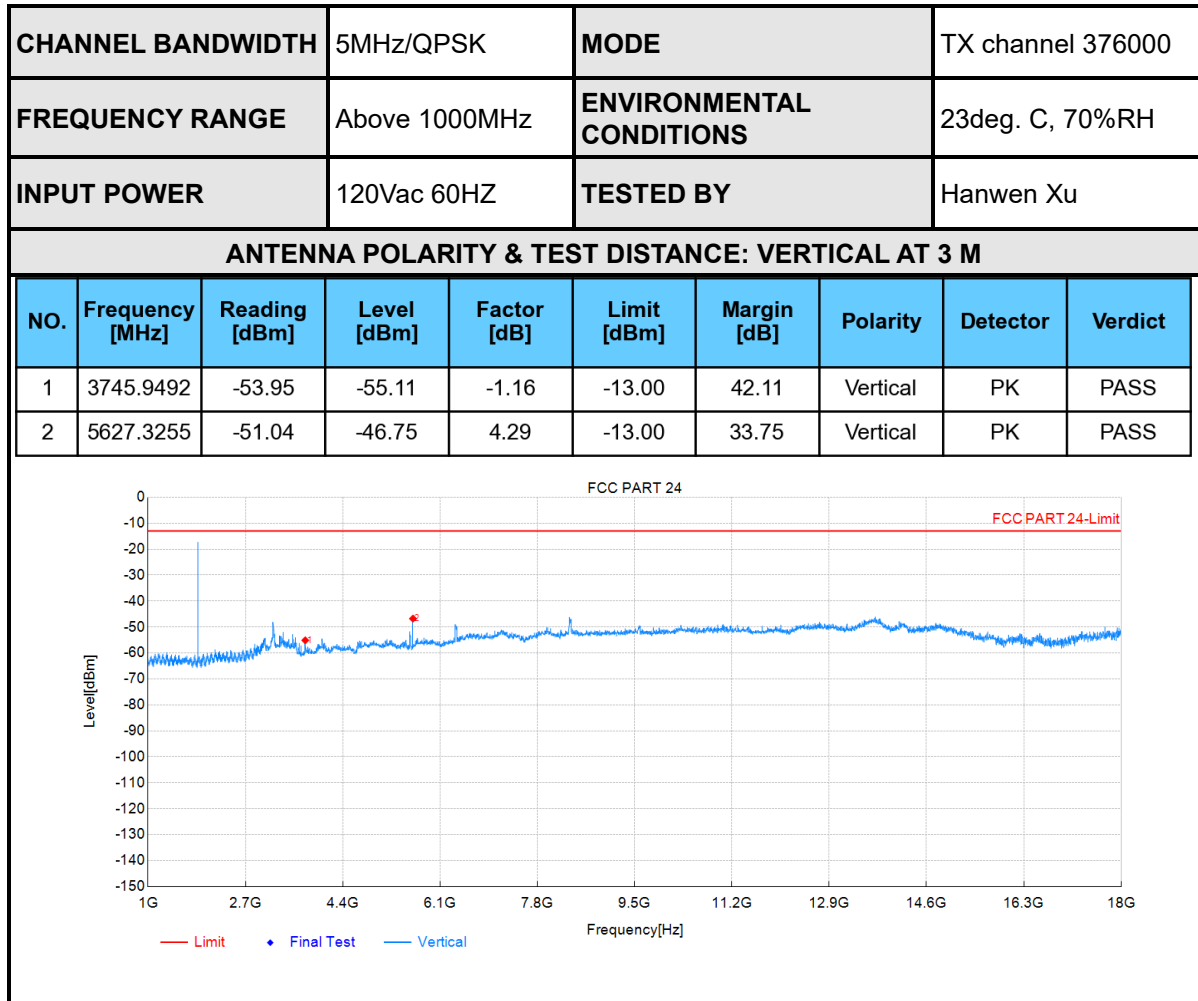


N2			
CHANNEL BANDWIDTH	5MHz/QPSK	MODE	TX channel 376000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3745.9492	-55.59	-56.76	-1.17	-13.00	43.76	Horizontal	PK	PASS
2	5627.3255	-60.23	-55.73	4.50	-13.00	42.73	Horizontal	PK	PASS



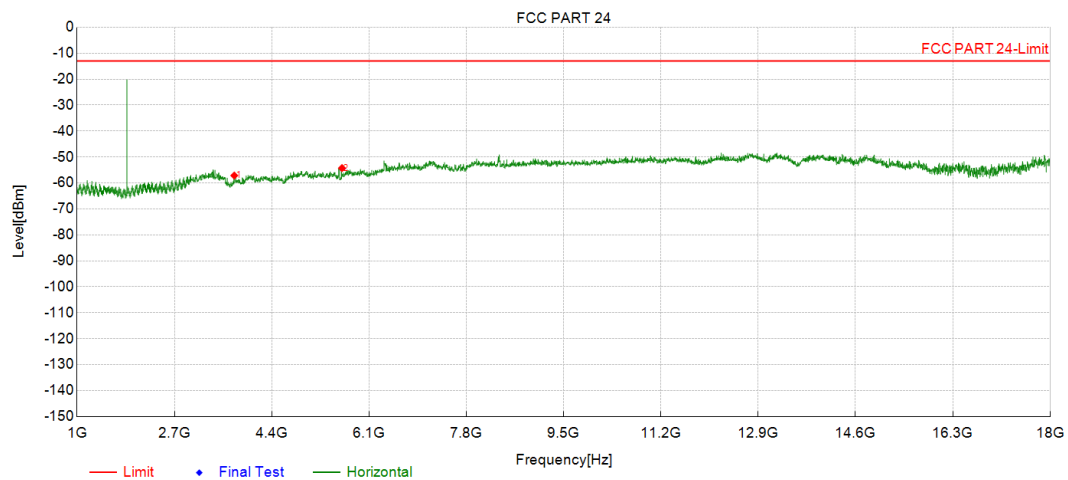


**BUREAU VERITAS** Test Report No.: PSU-QBJ2512030110RF02

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 376000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3745.9492	-55.97	-57.14	-1.17	-13.00	44.14	Horizontal	PK	PASS
2	5627.3255	-58.75	-54.25	4.50	-13.00	41.25	Horizontal	PK	PASS

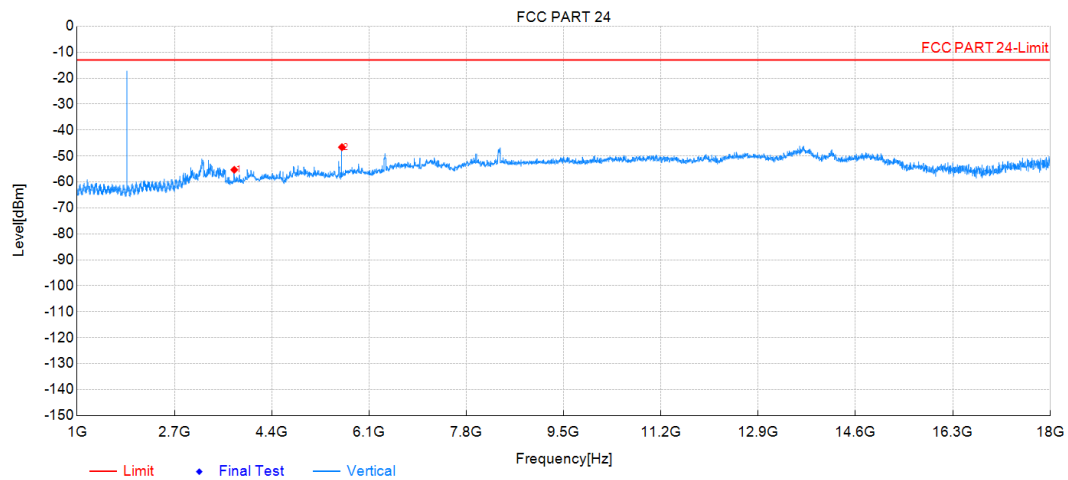




CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 376000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3745.9492	-54.14	-55.30	-1.16	-13.00	42.30	Vertical	PK	PASS
2	5627.3255	-50.88	-46.59	4.29	-13.00	33.59	Vertical	PK	PASS

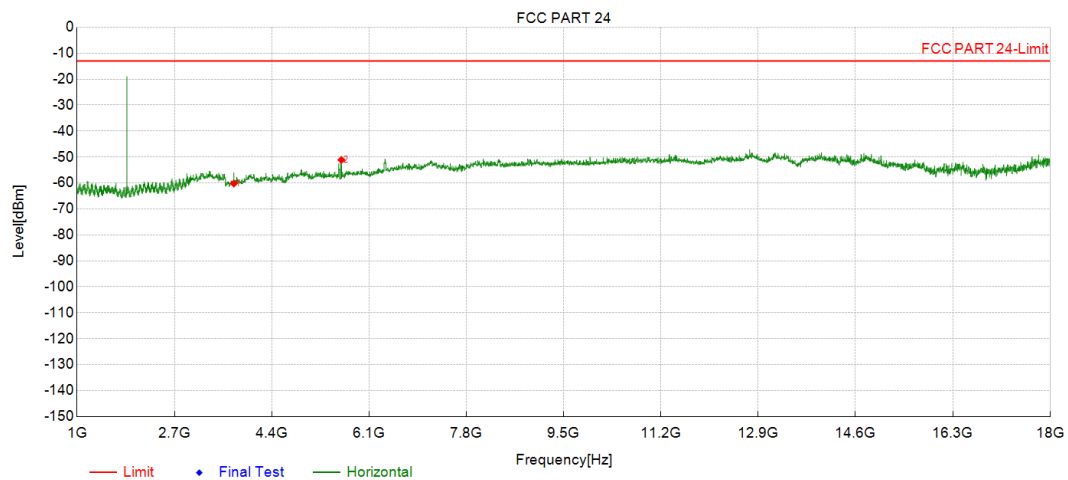


**BUREAU VERITAS** Test Report No.: PSU-QBJ2512030110RF02

CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 376000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3739.3479	-58.96	-60.20	-1.24	-13.00	47.20	Horizontal	PK	PASS
2	5617.4235	-55.51	-51.10	4.41	-13.00	38.10	Horizontal	PK	PASS

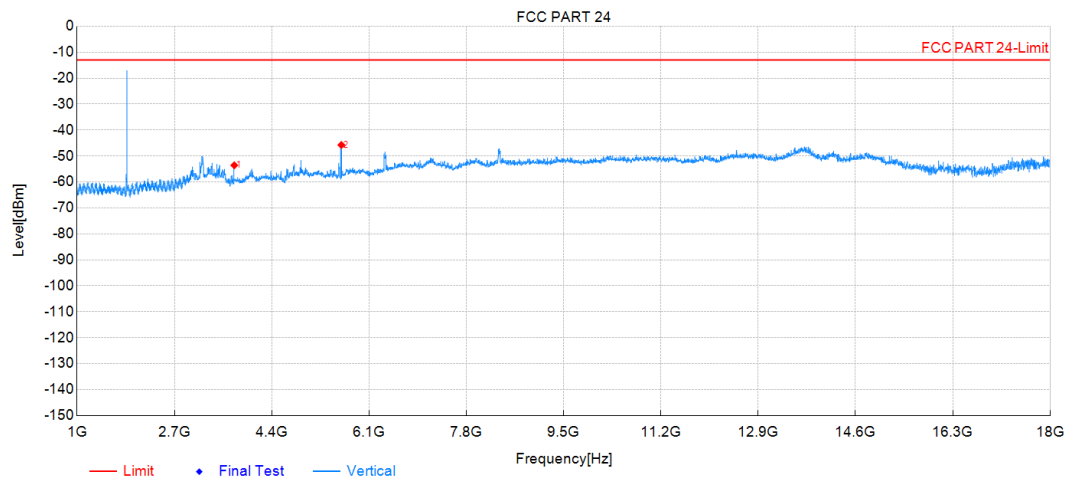




CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 376000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3745.9492	-52.38	-53.56	-1.18	-13.00	40.56	Vertical	PK	PASS
2	5617.4235	-49.91	-45.74	4.17	-13.00	32.74	Vertical	PK	PASS

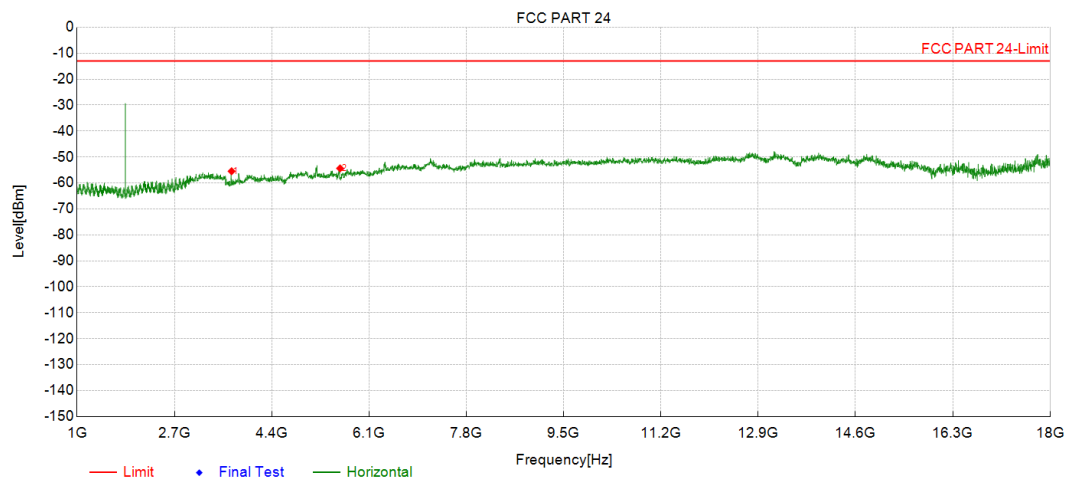


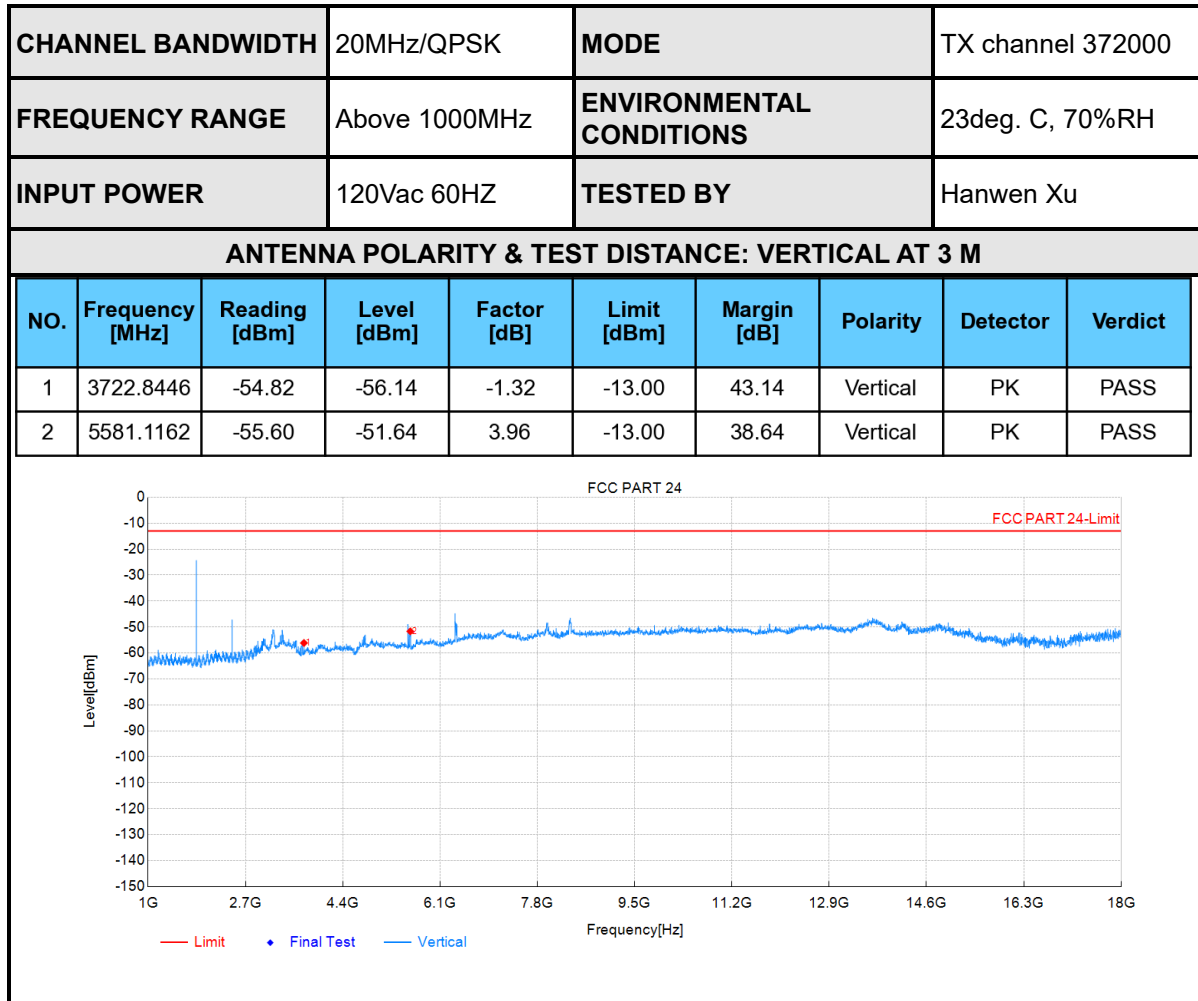
**BUREAU VERITAS** Test Report No.: PSU-QBJ2512030110RF02

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 372000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3699.7399	-53.95	-55.47	-1.52	-13.00	42.47	Horizontal	PK	PASS
2	5594.3189	-58.61	-54.36	4.25	-13.00	41.36	Horizontal	PK	PASS



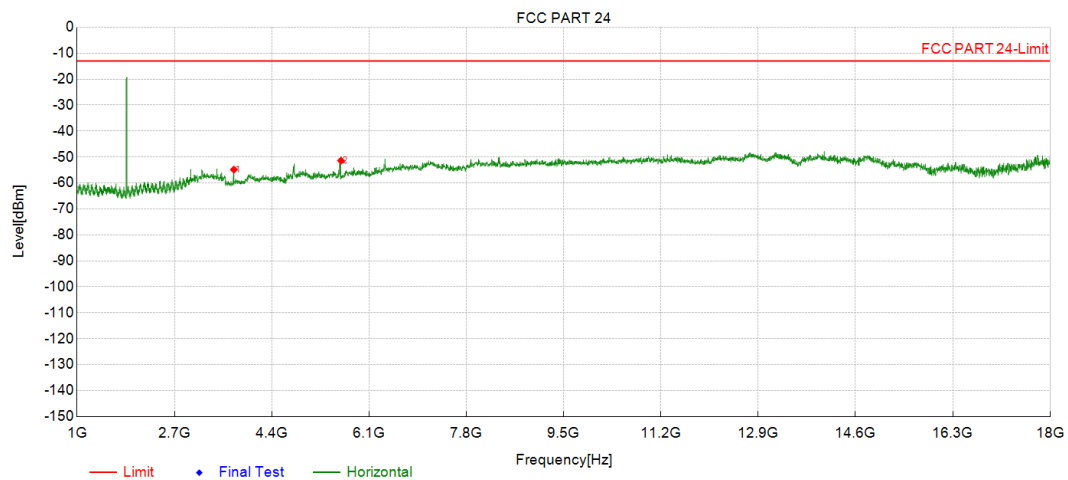


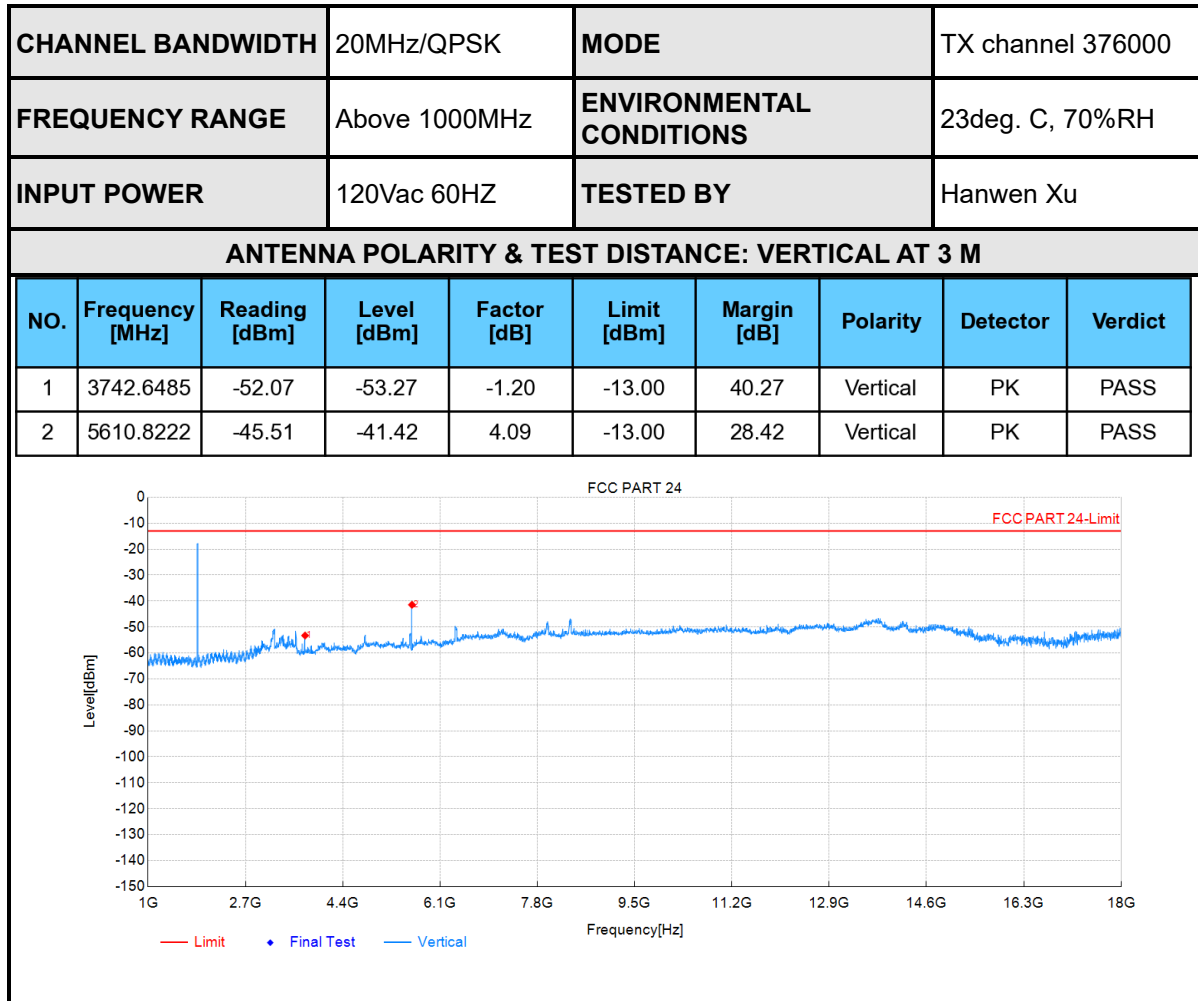


CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 376000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3739.3479	-53.61	-54.85	-1.24	-13.00	41.85	Horizontal	PK	PASS
2	5610.8222	-55.73	-51.38	4.35	-13.00	38.38	Horizontal	PK	PASS





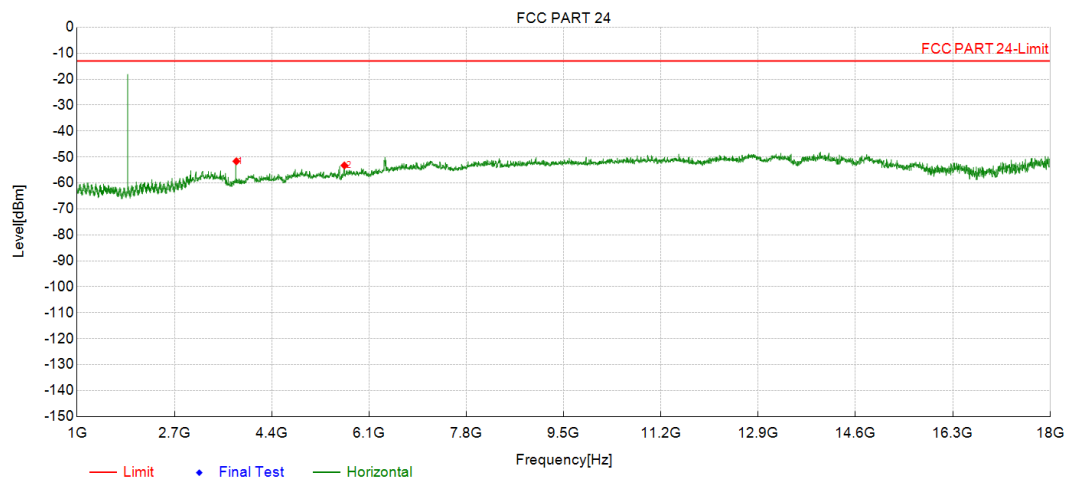


BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF02

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 380000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3782.2565	-50.71	-51.63	-0.92	-13.00	38.63	Horizontal	PK	PASS
2	5670.234	-58.14	-53.25	4.89	-13.00	40.25	Horizontal	PK	PASS

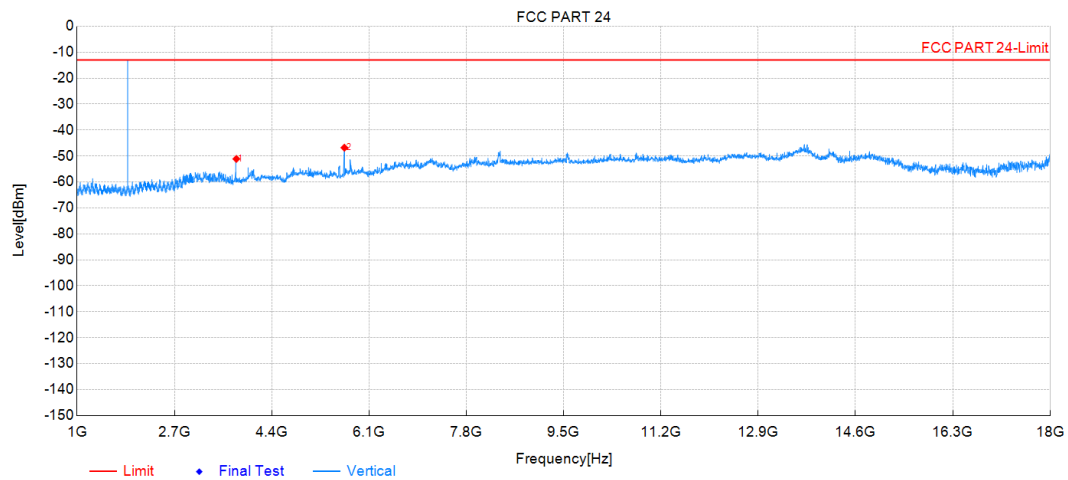


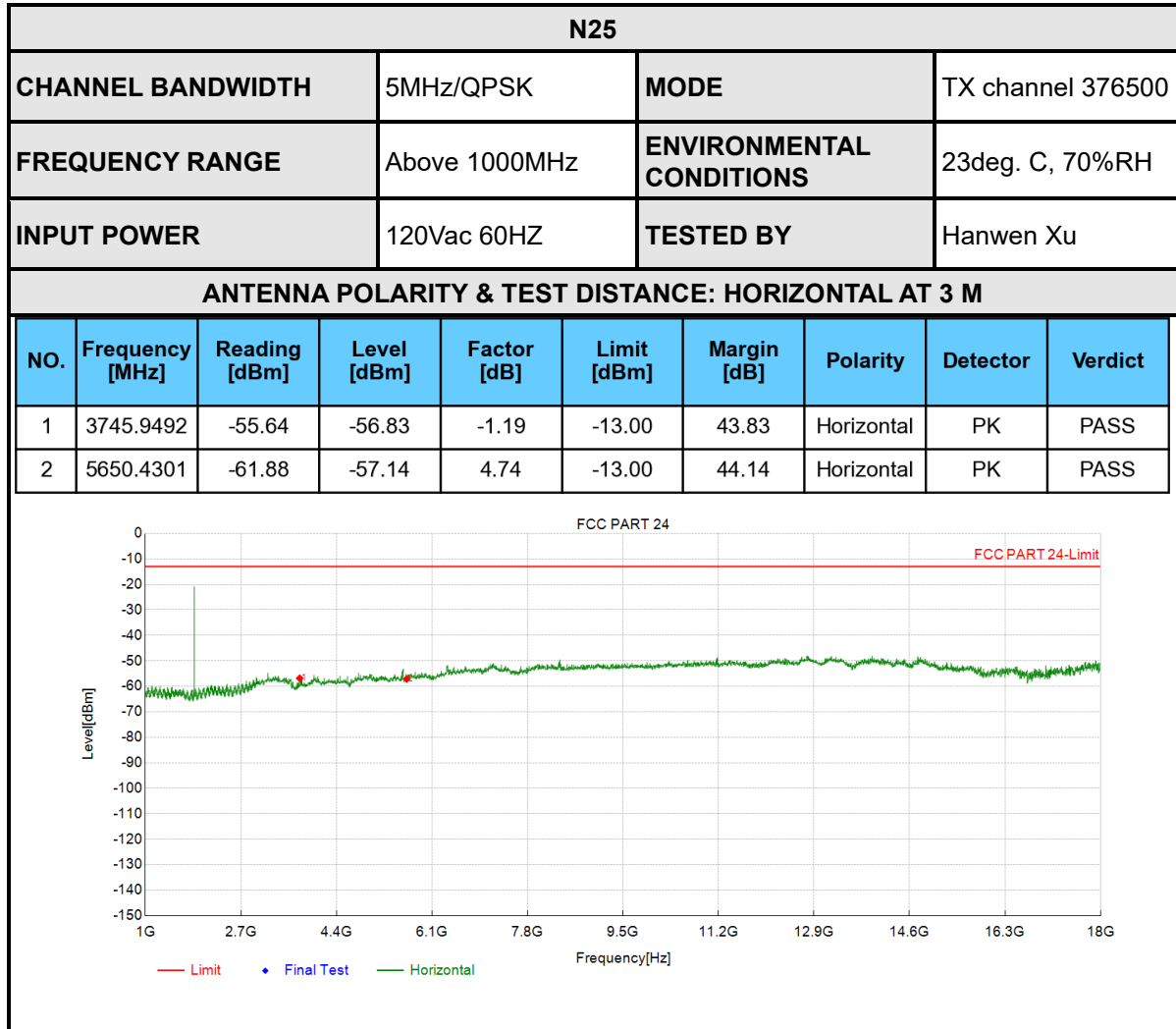


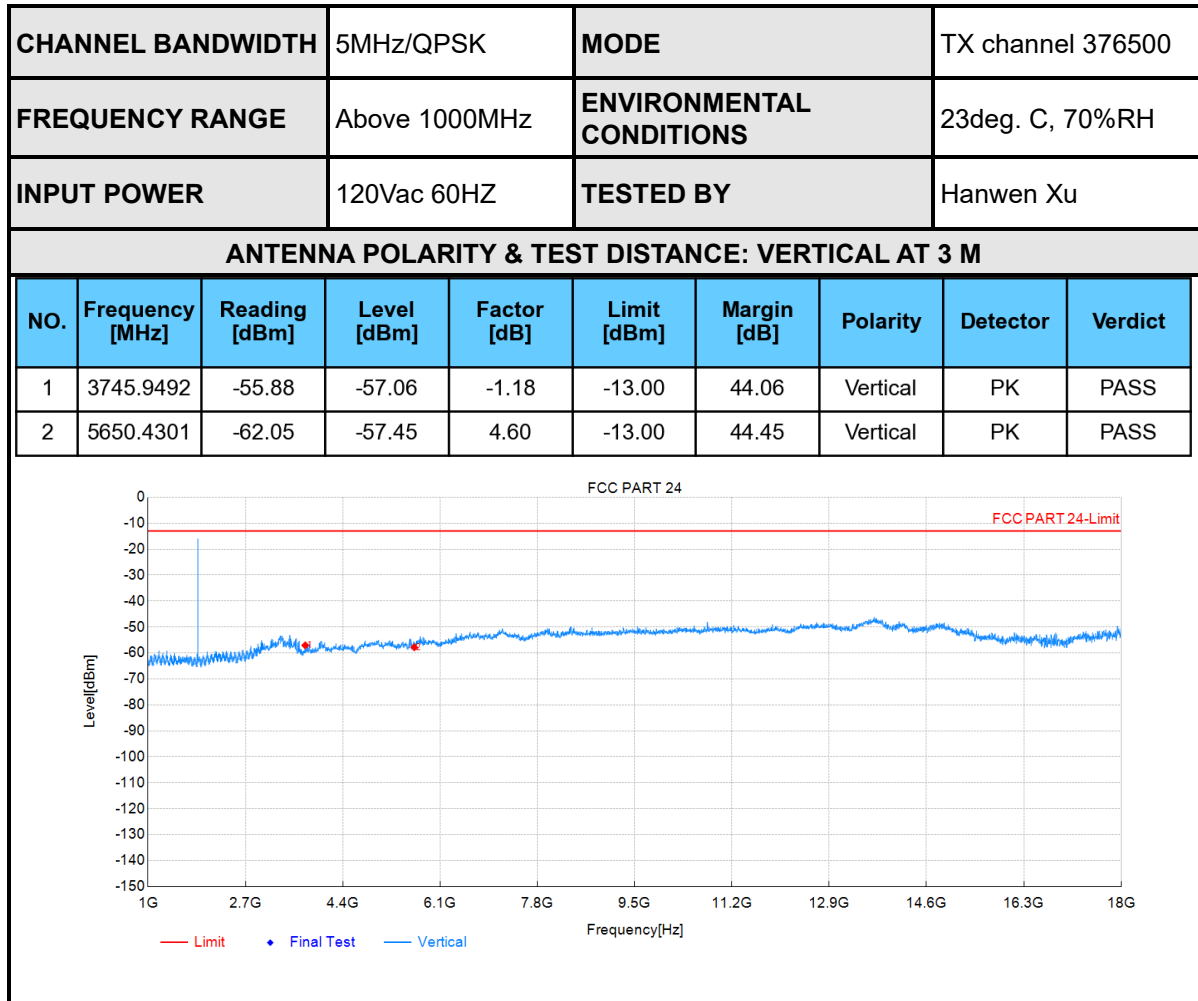
CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 380000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3782.2565	-50.17	-51.10	-0.93	-13.00	38.10	Vertical	PK	PASS
2	5670.234	-51.59	-46.79	4.80	-13.00	33.79	Vertical	PK	PASS





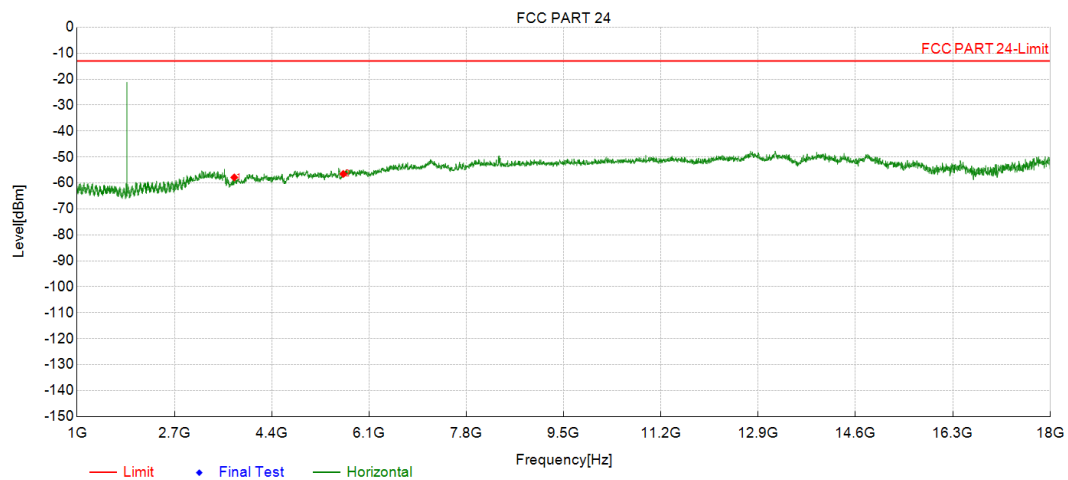




CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 376500
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3745.9492	-56.66	-57.85	-1.19	-13.00	44.85	Horizontal	PK	PASS
2	5650.4301	-61.25	-56.51	4.74	-13.00	43.51	Horizontal	PK	PASS

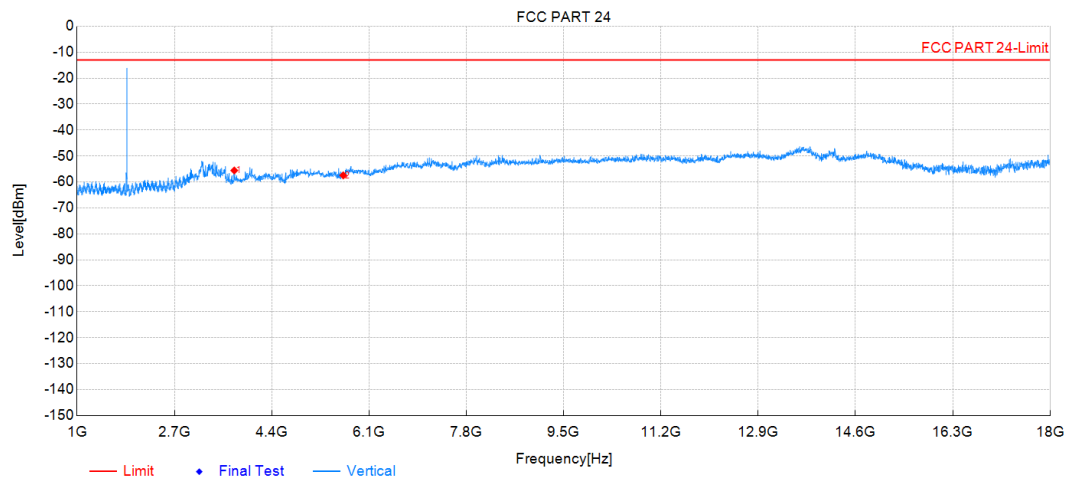




CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 376500
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3745.9492	-54.39	-55.57	-1.18	-13.00	42.57	Vertical	PK	PASS
2	5650.4301	-61.49	-56.89	4.60	-13.00	43.89	Vertical	PK	PASS



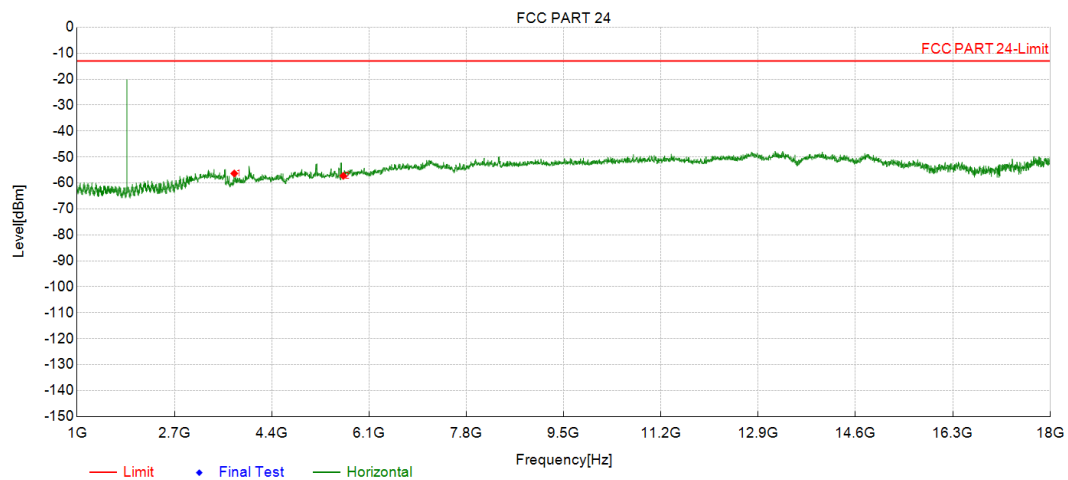


BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF02

CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 376500
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3745.9492	-55.14	-56.33	-1.19	-13.00	43.33	Horizontal	PK	PASS
2	5650.4301	-61.99	-57.25	4.74	-13.00	44.25	Horizontal	PK	PASS

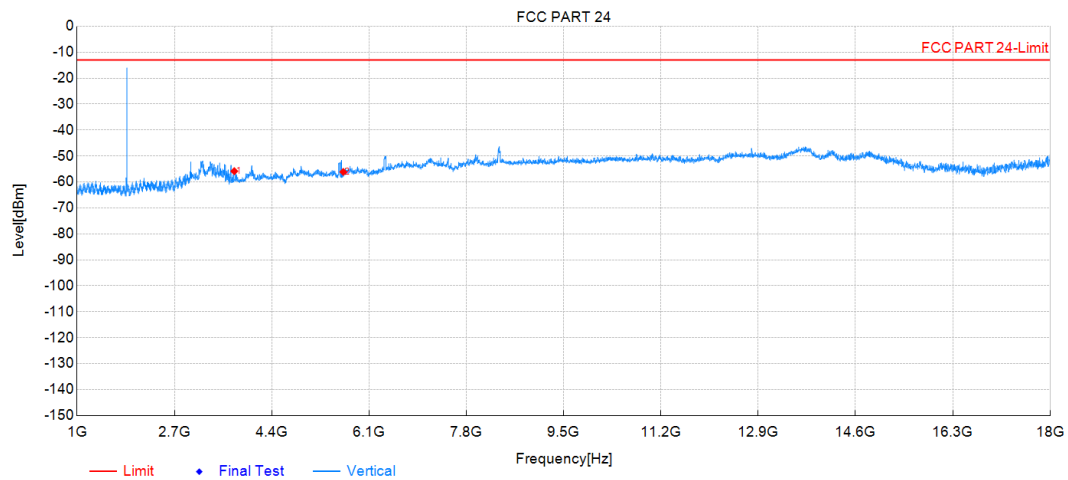




CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 376500
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3745.9492	-54.66	-55.84	-1.18	-13.00	42.84	Vertical	PK	PASS
2	5650.4301	-60.70	-56.10	4.60	-13.00	43.10	Vertical	PK	PASS



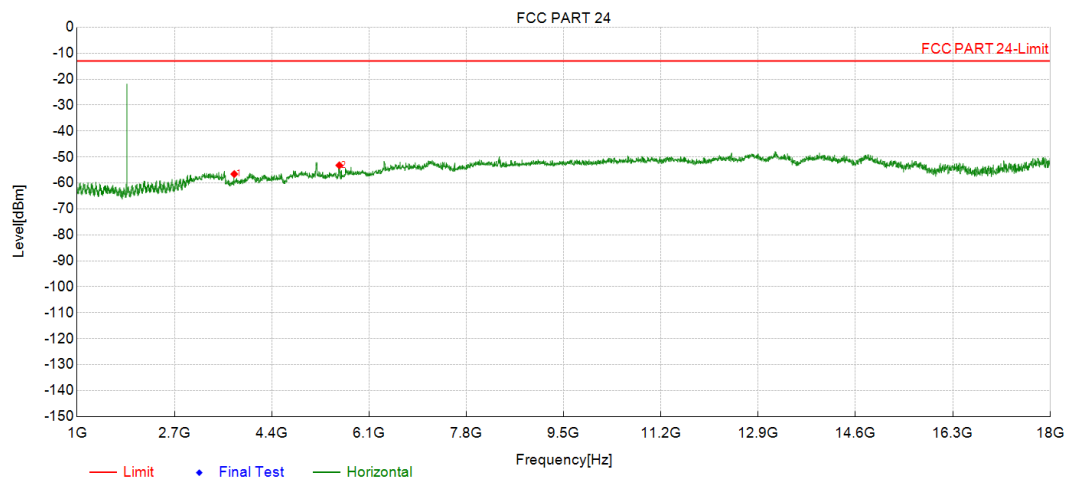


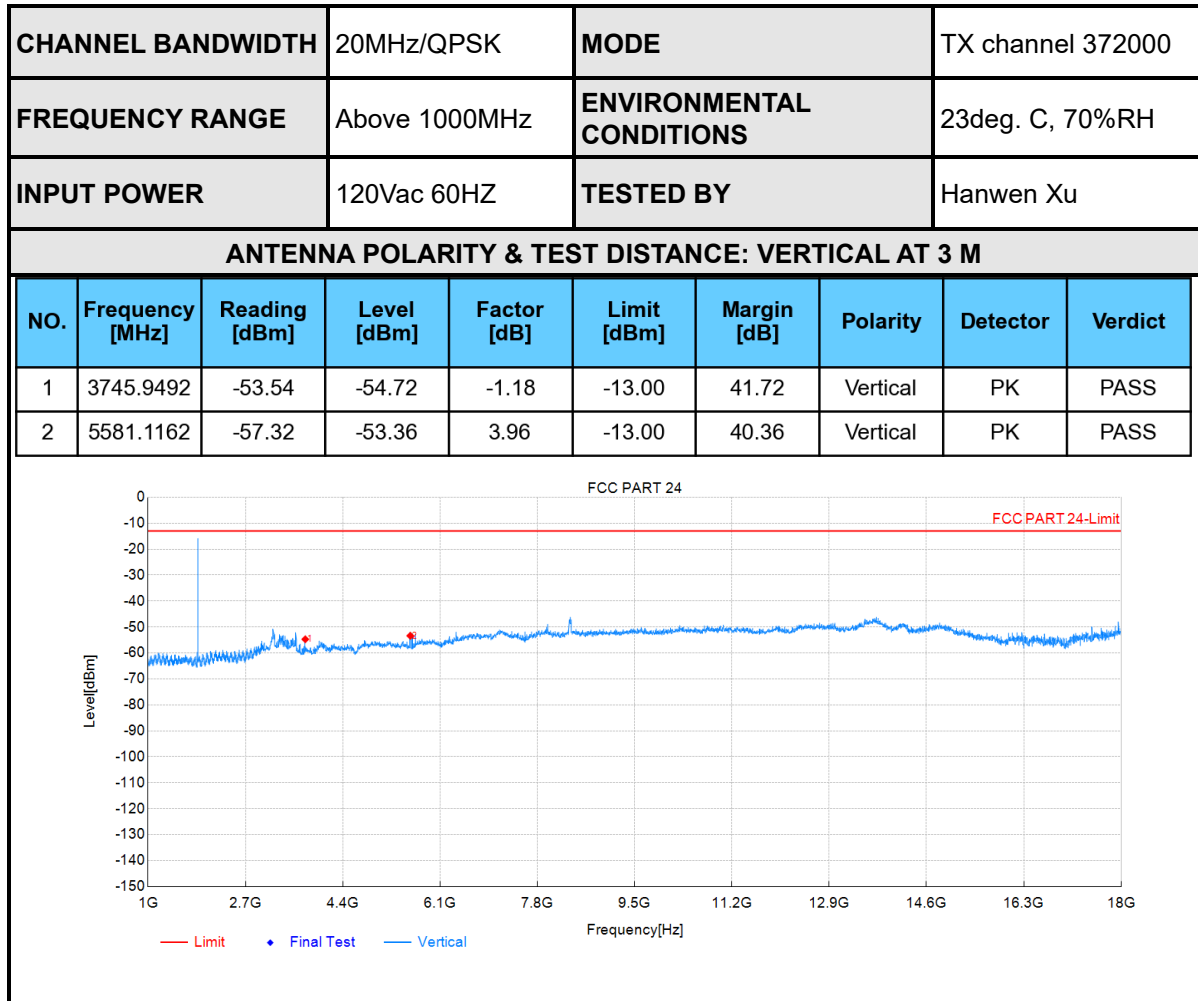
BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF02

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 372000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3745.9492	-55.36	-56.55	-1.19	-13.00	43.55	Horizontal	PK	PASS
2	5581.1162	-57.44	-53.20	4.24	-13.00	40.20	Horizontal	PK	PASS



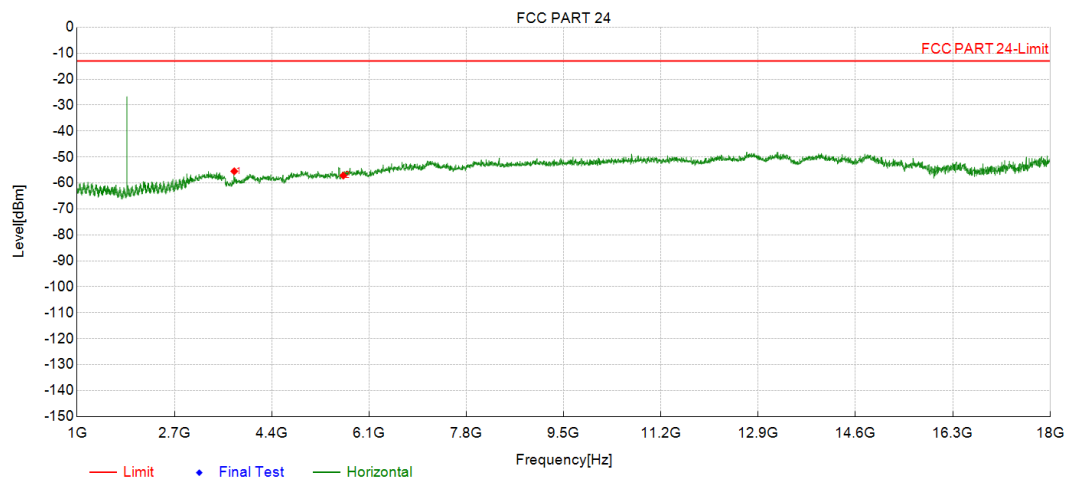




CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 376500
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3745.9492	-54.29	-55.48	-1.19	-13.00	42.48	Horizontal	PK	PASS
2	5650.4301	-61.85	-57.14	4.71	-13.00	44.14	Horizontal	PK	PASS

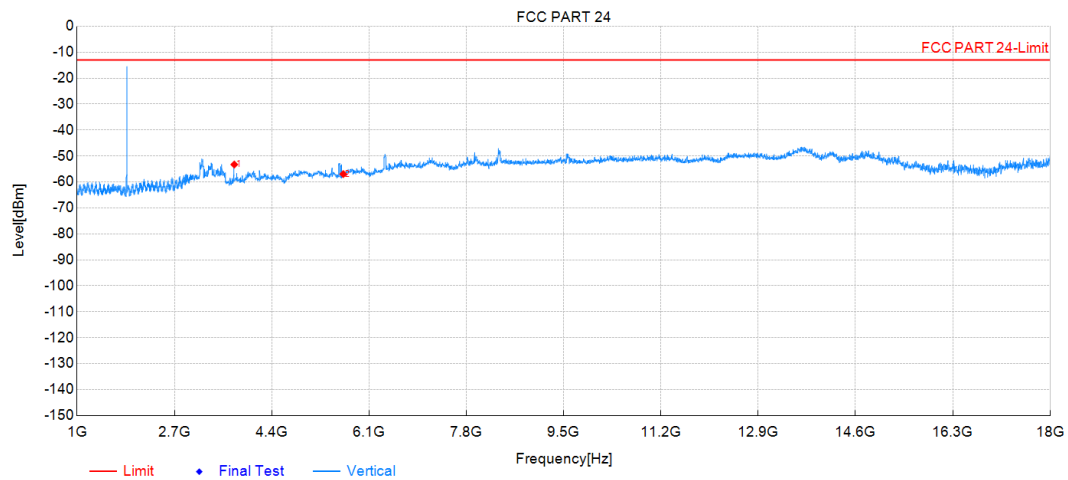




CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 376500
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	3745.9492	-52.10	-53.28	-1.18	-13.00	40.28	Vertical	PK	PASS
2	5650.4301	-61.54	-56.94	4.60	-13.00	43.94	Vertical	PK	PASS





BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF02

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 381000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen 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	3811.9624	-58.11	-58.84	-0.73	-13.00	45.84	Horizontal	PK	PASS
2	5716.4433	-60.45	-55.15	5.30	-13.00	42.15	Horizontal	PK	PASS

