

FCC RF TEST REPORT

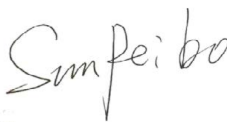
Applicant:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

Manufacturer or Supplier:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Product:	TCL LINKPORT IK511
Brand Name:	TCL
Model Name:	IK511US
FCC ID:	2ACCJSCD004
Date of tests:	Apr. 17, 2025 ~Jun. 03, 2025

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

☒ FCC PART 22, Subpart H	☒ FCC Part 2
☒ FCC PART 24, Subpart E	☒ ANSI/TIA/EIA-603-E
☒ FCC Part 27, Subpart C, M	☒ ANSI C63.26-2015
☒ ANSI/TIA/EIA-603-D	

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

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
	
Date: Jun. 03, 2025	Date: Jun. 03, 2025

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. 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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Test Report No.: PSU-QSU2504140116RF06

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSU2504140116RF06	Original release	Jun. 03, 2025



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 22/24/27 & PART 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
§2.1046	Conducted Output Power	Compliance	A
§24.232(c) §27.50(a)(3) §27.50(h)(2) §27.50(d)(4) §27.50(j)(3) §27.50(k)(3)	Equivalent Isotropically Radiated Power (5G NR n2,,n25 ,n30,n38,n41,n66,n77,n78)	Compliance	A
§22.913 (a) §27.50(c)(10)	Equivalent Radiated Power (5G NR n5,n12,n71)	Compliance	A
§2.1055 §22.355 §24.235 §27.54	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§2.1051 §22.917(a) §24.238(a) §27.53(a)(4) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(n)(2)	Band Edge Measurements	Compliance	A



§2.1051 §22.917(a) §24.238(a) §27.53(a)(4) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(n)(2)	Conducted Spurious Emissions	Compliance	A
§2.1051 §22.917(a) §24.238(a) §27.53(a)(4) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(n)(2)	Radiated Spurious Emissions	Compliance	A
§27.50(j)(4) §22.913(d) n5 §24.232(d) n2 §27.50(d)(5) §27.50(k)(4)	Peak-to-Average Ratio	Compliance	A

NOTE:

1. Max ERP/EIRP is according to Max conducted power calculate for SA.
2. The sample supports both 5g NR normal mode and redcap mode. Except for Transmit Power, the whole testing is assessed for NR mode only because of the higher conducted power.

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.

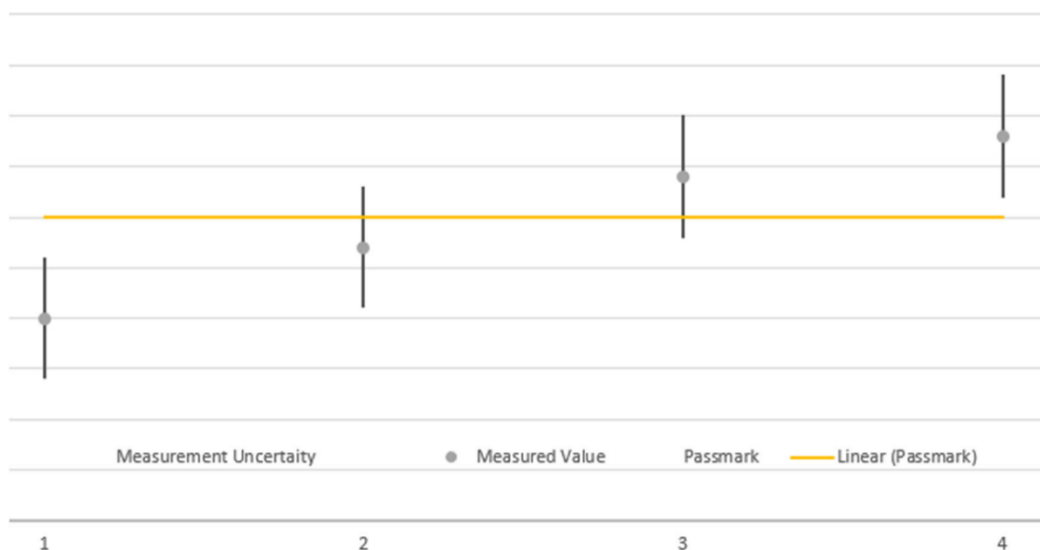


1.1 MEASUREMENT UNCERTAINTY

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	$\pm 4.70\text{dB}$

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.30,23	Aug.29,25
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.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
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	Dec.26,23	Dec.25,25
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,23	Aug.21,25
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	Aug.22,23	Aug.21,25
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.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Sep.06,23	Sep.05,25
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.27,24	Apr.26,25
CABLE	R&S	W13.02	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.26,25	Apr.25,26



CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.27,24	Apr.26,25
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.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,25	Apr.25,26
Temperature Chamber	votsch	VT4002	585660781000 50	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*	TCL LINKPORT IK511	
BRAND NAME*	TCL	
MODEL NAME*	IK511US	
NOMINAL VOLTAGE*	DC 5V	
MODULATION TECHNOLOGY	5G NR	DFT-s-OFDM(Pi/2BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFDM(QPSK,16QAM,64QAM,256QAM);
FREQUENCY RANGE	NR Band n2	1852.5MHz ~ 1907.5MHz
	NR Band n5	826.5MHz ~ 846.5MHz
	NR Band n12	701.5MHz ~ 713.5MHz
	NR Band n25	1852.5MHz ~ 1912.5MHz
	NR Band n30	2307.5MHz ~ 2312.5MHz
	NR Band n38	2575MHz ~ 2615MHz
	NR Band n41	2501.01MHz ~ 2685MHz
	NR Band n66	1712.5MHz ~ 1777.5MHz
	NR Band n71	665.5MHz ~ 695.5MHz
	NR Band n77(Part27Q)	3455.01MHz ~ 3544.98MHz
	NR Band n77(Part27O)	3705MHz ~ 3974.97MHz
	NR Band n78(Part27Q)	3455.01MHz ~ 3544.98MHz



EMISSION DESIGNATOR	NR Band n5 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M54W7D 64QAM: 4M51W7D 256QAM: 4M52W7D Pi/2BPSK: 4M54G7D
	NR Band n5 Channel Bandwidth: 10MHz	QPSK: 9M02G7D 16QAM: 8M99W7D 64QAM: 9M05W7D 256QAM: 9M02G7D Pi/2BPSK: 9M01G7D
	NR Band n5 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M6W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M5G7D
	NR Band n5 Channel Bandwidth: 20MHz	QPSK: 18M0G7D 16QAM: 18M0W7D 64QAM: 18M0W7D 256QAM: 19M9G7D Pi/2BPSK: 18M0G7D
EMISSION DESIGNATOR	NR Band n12 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M54W7D 64QAM: 4M55W7D 256QAM: 4M52W7D Pi/2BPSK: 4M55G7D
	NR Band n12 Channel Bandwidth: 10MHz	QPSK: 8M98G7D 16QAM: 8M97W7D 64QAM: 9M03W7D 256QAM: 9M00G7D Pi/2BPSK: 9M02G7D
	NR Band n12 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M5G7D
	NR Band n25 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M54W7D 64QAM: 4M56W7D 256QAM: 4M52W7D Pi/2BPSK: 4M55G7D



	NR Band n25 Channel Bandwidth: 10MHz	QPSK: 8M99G7D 16QAM: 8M98W7D 64QAM: 9M02W7D 256QAM: 9M01G7D Pi/2BPSK: 9M01G7D
	NR Band n25 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M57D 256QAM: 13M67D Pi/2BPSK: 13M57D
	NR Band n25 Channel Bandwidth: 20MHz	QPSK: 18M17D 16QAM: 18M0W7D 64QAM: 18 M1W7D 256QAM: 17M9W7D Pi/2BPSK: 18M1G7D
	NR Band n30 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M51W7D 64QAM: 4M54W7D 256QAM: 4M53W7D Pi/2BPSK: 4M57G7D
	NR Band n30 Channel Bandwidth: 10MHz	QPSK: 8M99G7D 16QAM: 8M99W7D 64QAM: 9M03W7D 256QAM: 9M02G7D Pi/2BPSK: 9M03G7D
	NR Band n41 Channel Bandwidth: 10MHz	QPSK: 8M60G7D 16QAM: 8M61W7D 64QAM: 8M61W7D 256QAM: 8M61W7D Pi/2BPSK: 8M60G7D
	NR Band n41 Channel Bandwidth: 15MHz	QPSK: 12M9G7D 16QAM: 12M9W7D 64QAM: 12M9W7D 256QAM: 12M9W7D Pi/2BPSK: 12M9G7D
	NR Band n41 Channel Bandwidth: 20MHz	QPSK: 17M8G7D 16QAM: 17M9W7D 64QAM: 17M8W7D 256QAM: 17M8W7D Pi/2BPSK: 17M8G7D



EMISSION DESIGNATOR	NR Band n66 Channel Bandwidth: 5MHz	QPSK: 4M54G7D 16QAM: 4M53W7D 64QAM: 4M52W7D 256QAM: 4M52W7D Pi/2BPSK: 4M56G7D
	NR Band n66 Channel Bandwidth: 10MHz	QPSK: 9M00G7D 16QAM: 8M98W7D 64QAM: 9M01W7D 256QAM: 9M01W7D Pi/2BPSK: 9M03G7D
	NR Band n66 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M5W7D 256QAM: 13M6W7D Pi/2BPSK: 13M5G7D
	NR Band n66 Channel Bandwidth: 20MHz	QPSK: 18M1G7D 16QAM: 18M0W7D 64QAM: 18M1W7D 256QAM: 18M0W7D Pi/2BPSK: 18M0G7D
	NR Band n71 Channel Bandwidth: 5MHz	QPSK: 4M52G7D 16QAM: 4M55W7D 64QAM: 4M52W7D 256QAM: 4M53W7D Pi/2BPSK: 4M54G7D
	NR Band n71 Channel Bandwidth: 10MHz	QPSK: 8M98G7D 16QAM: 8M98W7D 64QAM: 9M00W7D 256QAM: 9M00G7D Pi/2BPSK: 8M99G7D
	NR Band n71 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M4G7D
	NR Band n71 Channel Bandwidth: 20MHz	QPSK: 18M0G7D 16QAM: 17M9W7D 64QAM: 18M0W7D 256QAM: 17M9W7D Pi/2BPSK: 17M9G7D
EMISSION DESIGNATOR	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	QPSK: 8M58G7D 16QAM: 8M57W7D 64QAM: 8M55W7D 256QAM: 8M57W7D Pi/2BPSK: 8M58G7D



	NR Band 77(Part27Q) Channel Bandwidth: 15MHz	QPSK: 12M9G7D 16QAM: 12M9W7D 64QAM: 12M9W7D 256QAM: 12M9W7D Pi/2BPSK: 12M9G7D
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	QPSK: 17M8G7D 16QAM: 17M8W7D 64QAM: 17M8W7D 256QAM: 17M8W7D Pi/2BPSK: 17M8G7D
EMISSION DESIGNATOR	NR Band 77(Part27O) Channel Bandwidth: 10MHz	QPSK: 8M55G7D 16QAM: 8M55W7D 64QAM: 8M55W7D 256QAM: 8M55W7D Pi/2BPSK: 8M55G7D
	NR Band 77(Part27O) Channel Bandwidth: 15MHz	QPSK: 12M9G7D 16QAM: 12M9W7D 64QAM: 12M9W7D 256QAM: 12M9W7D Pi/2BPSK: 12M9G7D
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 17M9W7D Pi/2BPSK: 17M9G7D
5G SA MAX. EIRP/ERP POWER	NR Band n2 Channel Bandwidth: 5MHz	222.33mW
	NR Band n2 Channel Bandwidth: 10MHz	223.36mW
	NR Band n2 Channel Bandwidth: 15MHz	221.31mW
	NR Band n2 Channel Bandwidth: 20MHz	228.03mW
	NR Band n5 Channel Bandwidth: 5MHz	88.10mW
	NR Band n5 Channel Bandwidth: 10MHz	87.70mW



	NR Band n5 Channel Bandwidth: 15MHz	88.10mW
	NR Band n5 Channel Bandwidth: 20MHz	89.54mW
5G SA MAX. EIRP/ERP POWER	NR Band n12 Channel Bandwidth: 5MHz	104.71mW
	NR Band n12 Channel Bandwidth: 10MHz	103.75mW
	NR Band n12 Channel Bandwidth: 15MHz	105.20mW
	NR Band n25 Channel Bandwidth: 5MHz	232.81mW
	NR Band n25 Channel Bandwidth: 10MHz	232.27mW
	NR Band n25 Channel Bandwidth: 15MHz	233.88mW
	NR Band n25 Channel Bandwidth: 20MHz	234.42mW
	NR Band n30 Channel Bandwidth: 5MHz	221.31mW
	NR Band n30 Channel Bandwidth: 10MHz	223.87mW
	NR Band n66 Channel Bandwidth: 5MHz	214.78mW
	NR Band n66 Channel Bandwidth: 10MHz	215.77mW
	NR Band n66 Channel Bandwidth: 15MHz	211.35mW
	NR Band n66 Channel Bandwidth: 20MHz	217.77mW



5G SA MAX. EIRP/ERP POWER	NR Band n71 Channel Bandwidth: 5MHz	70.63mW
	NR Band n71 Channel Bandwidth: 10MHz	70.63mW
	NR Band n71 Channel Bandwidth: 15MHz	70.79mW
	NR Band n71 Channel Bandwidth: 20MHz	71.61mW
5G SA MAX. EIRP/ERP POWER Redcap mode	NR Band n2 Channel Bandwidth: 5MHz	221.31mW
	NR Band n2 Channel Bandwidth: 10MHz	218.78 mW
	NR Band n2 Channel Bandwidth: 15MHz	225.42 mW
	NR Band n2 Channel Bandwidth: 20MHz	226.99 mW
	NR Band n5 Channel Bandwidth: 5MHz	87.90 mW
	NR Band n5 Channel Bandwidth: 10MHz	85.70 mW
	NR Band n5 Channel Bandwidth: 15MHz	88.10mW
	NR Band n5 Channel Bandwidth: 20MHz	89.13mW
	NR Band n12 Channel Bandwidth: 5MHz	103.99 mW
	NR Band n12 Channel Bandwidth: 10MHz	101.62 mW
	NR Band n12 Channel Bandwidth: 15MHz	104.47mW



5G SA MAX. EIRP/ERP POWER Redcap mode	NR Band n25 Channel Bandwidth: 5MHz	229.09 mW
	NR Band n25 Channel Bandwidth: 10MHz	231.74 mW
	NR Band n25 Channel Bandwidth: 15MHz	223.36 mW
	NR Band n25 Channel Bandwidth: 20MHz	233.35 mW
	NR Band n30 Channel Bandwidth: 5MHz	219.28 mW
	NR Band n30 Channel Bandwidth: 10MHz	221.82 mW
	NR Band n38 Channel Bandwidth: 10MHz	256.45mW
	NR Band n38 Channel Bandwidth: 15MHz	261.22mW
	NR Band n38 Channel Bandwidth: 20MHz	264.24mW
	NR Band n41 Channel Bandwidth: 10MHz	285.10mW
	NR Band n41 Channel Bandwidth: 15MHz	283.79mW
	NR Band n41 Channel Bandwidth: 20MHz	288.40mW
	NR Band n66 Channel Bandwidth: 5MHz	207.01 mW
	NR Band n66 Channel Bandwidth: 10MHz	215.28 mW
	NR Band n66 Channel Bandwidth: 15MHz	211.84 mW



5G SA MAX. EIRP/ERP POWER Redcap mode	NR Band n66 Channel Bandwidth: 20MHz	216.77 Mw
	NR Band n71 Channel Bandwidth: 5MHz	69.98 mW
	NR Band n71 Channel Bandwidth: 10MHz	69.50 mW
	NR Band n71 Channel Bandwidth: 15MHz	68.23mW
	NR Band n71 Channel Bandwidth: 20MHz	71.29 mW
	NR Band 77(Part27Q) Channel Bandwidth: 10MHz	358.10mW
	NR Band 77(Part27Q) Channel Bandwidth: 15MHz	358.10mW
	NR Band 77(Part27Q) Channel Bandwidth: 20MHz	358.92mW
	NR Band 77(Part27O) Channel Bandwidth: 10MHz	349.14mW
	NR Band 77(Part27O) Channel Bandwidth: 15MHz	344.35mW
	NR Band 77(Part27O) Channel Bandwidth: 20MHz	351.56mW
	NR Band 78(Part27Q) Channel Bandwidth: 10MHz	354.00mW
	NR Band 78(Part27Q) Channel Bandwidth: 15MHz	355.63mW
ANTENNA GAIN*	NR Band 78(Part27Q) Channel Bandwidth: 20MHz	358.10mW
	NR Band n2	0.5dBi
	NR Band n5	-1.7dBi
	NR Band n12	-0.9dBi
	NR Band n25	0.5dBi
	NR Band n30	2.2dBi



	NR Band n38	1.2dBi
	NR Band n41	1.4dBi
	NR Band n66	0.4dBi
	NR Band n71	-2.5dBi
	NR Band n77	2.4dBi
	NR Band n78	2.4dBi
ANTENNA TYPE*	Fixed Internal Antenna	
HW VERSION*	V3.0	
SW VERSION*	IK511USV1_ZZ_01.00_01	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	USB cable: non-shielded cable, with w/o ferrite core, 0.15 meter	
EXTREME TEMPERATURE*	-20°C~55°C	
EXTREME VOLTAGE*	4.75V~5.25V	

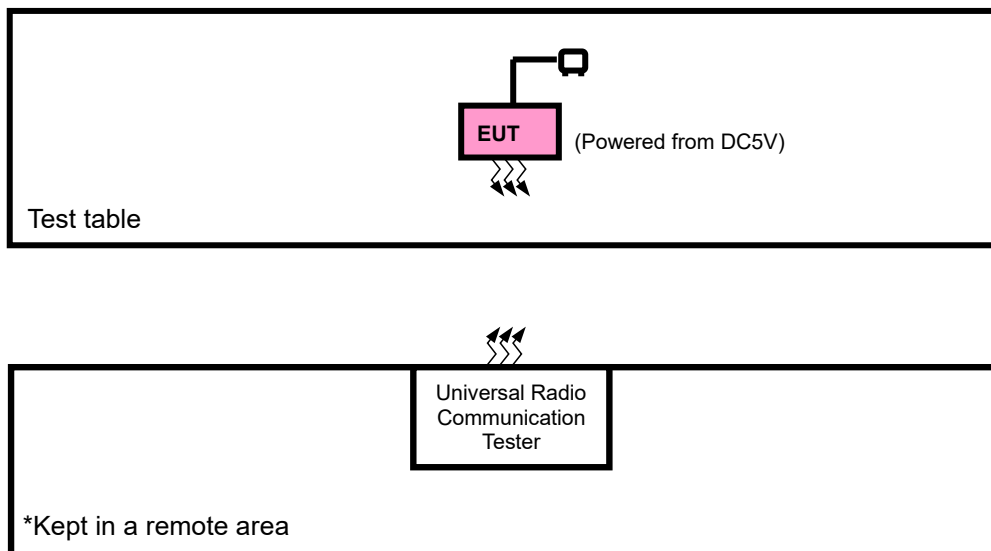
NOTE:

3. *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.
4. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
5. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

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

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

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

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Line: non-shielded, Detachable 0.15m

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 + DC Supply with 5G NR link



5G NR n2 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	EIRP	370500 to 381500	370500 to 381500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 381000	371000 to 381000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 380500	371500 to 380500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 513500	372000 to 513500	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	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 EIRP calculate presented in the report from worst SA n2.

3. SA n2 are covered by SA n25, Because it is a subset of SA n25 with the same output power and supported bandwidths, So the conducted test data please refer to SA n25.

5G NR n5 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	165300 to 169300	165300 to 169300	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	165300 to 169300	165300 to 169300	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High			Outer_ Full
		166300 to 168300	166300 to 168300	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		165300 to 169300	165300 to 169300	Low, Middle, High			Outer_ Full
		165800 to 168800	165800 to 168800	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	165300 to 169300	165300 to 169300	Middle	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full



		165800 to 168800	165800 to 168800	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		166300 to 168300	166300 to 168300	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		166800 to 167800	166800 to 167800	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	165300 to 169300	165300 to 169300	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	5MHz	QPSK	1RB/ 24RB Offset
							Outer_ Full
		165800 to 168800	165800 to 168800	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	QPSK	1RB/ 51RB Offset
							Outer_ Full
		166300 to 168300	166300 to 168300	Low	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	15MHz	QPSK	1RB/ 78RB Offset
							Outer_ Full
		166800 to 167800	166800 to 167800	Low	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	20MHz	QPSK	1RB/ 105RB Offset
							Outer_ Full
A	CONDUCTED EMISSION	165300 to 169300	165300 to 169300	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	165300 to 169300	165300 to 169300	Middle,	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300 to 168300	Middle,	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Middle,	20MHz	QPSK	1RB/ 0RB Offset

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst

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case was found in QPSK modulation.

2. The test data presented in the report from worst SA_n5.

5G NR n12 MODE (SA_n12)

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	140300 to 142700	140300 to 142700	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		140800 to 142200	140800 to 142200	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	141300 to 141700	141300 to 141700	Middle	15MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	140300 to 142700	140300 to 142700	Low, Middle, High	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		140800 to 142200	140800 to 142200	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		140300 to 142700	140300 to 142700	Low, Middle, High	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
		141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	140300 to 142700	140300 to 142700	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		140800 to 142200	140800 to 142200	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		141300 to 141700	141300 to 141700	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	140300 to 142700	140300 to 142700	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	5MHz	QPSK	1RB/ 24RB Offset
							Outer_ Full
		140800 to 142200	140800 to 142200	Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	10MHz	QPSK	1RB/ 51RB Offset
							Outer_ Full
		141300 to 141700	141300 to 141700	Low	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
				High	15MHz	QPSK	1RB/ 78RB Offset
							Outer_ Full



A	CONDUCTED EMISSION	140300 to 142700	140300 to 142700	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		140800 to 142200	140800 to 142200	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	140300 to 142700	140300 to 142700	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		140800 to 142200	140800 to 142200	Middle	10MHz	QPSK	1RB/ 0RB Offset
		141300 to 141700	141300 to 141700	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_n12.



5G NR n25 MODE(SA_n25)

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	EIRP	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	372000 to 381000	372000 to 381000	Middle	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		371500 to 381500	371500 to 381500	Low, Middle, High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		371000 to 382000	371000 to 382000	Low, Middle, High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	OCCUPIED BANDWIDTH	370500 to 382500	370500 to 382500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		371000 to 382000	371000 to 382000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		371500 to 381500	371500 to 381500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		372000 to 381000	372000 to 381000	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	370500 to 382500	370500 to 382500	Low	5MHz	QPSK	1RB/ 0RB Offset
				High	5MHz	QPSK	Outer_ Full
		371000 to 382000	371000 to 382000	Low	10MHz	QPSK	1RB/ 24 RB Offset
				High	10MHz	QPSK	Outer_ Full
		371500 to 381500	371500 to 381500	Low	15MHz	QPSK	1RB/ 0RB Offset
				High	15MHz	QPSK	Outer_ Full
		371000 to 382000	371000 to 382000	Low	10MHz	QPSK	1RB/ 51RB Offset
				High	10MHz	QPSK	Outer_ Full



		372000 to 381000	372000 to 381000	Low	20MHz	QPSK	1RB/ 0RB Offset
				High	20MHz	QPSK	Outer_Full
							1RB/ 105 RB Offset
A	CONDUCTED EMISSION	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	370500 to 382500	370500 to 382500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		371000 to 382000	371000 to 382000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		371500 to 381500	371500 to 381500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Middle	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_n25

5G NR n30 MODE (SA_n30)

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 to 462500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		462000	462000	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	462000	462000	Middle	10MHz	QPSK	Outer_Full
A	PEAK TO AVERAGE RATIO	462000	462000	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		461500 to 462500	461500 to 462500	Low, Middle, High	5MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_Full
A	OCCUPIED BANDWIDTH	461500 to 462500	461500 to 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 to 462500	Low	5MHz	QPSK	1RB/ 0RB Offset
							Outer_Full



				High	5MHz	QPSK	1RB/ 24RB Offset
							Outer_Full
		462000	462000	Middle	10MHz	QPSK	1RB/ 0RB Offset
				Middle	10MHz	QPSK	1RB/ 78RB Offset
							Outer_Full
A	CONDUCTED EMISSION	461500 to 462500	461500 to 462500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		462000	462000	Middle	10MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	461500 to 462500	461500 to 462500	Low, Middle, High	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.



5G NR n38 MODE (SA_n38)

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	515000 to 523000	515000 to 523000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		515500 to 522500	515500 to 522500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		516000 to 522000	516000 to 522000	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	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 EIRP calculate presented in the report from worst SA n38.

3. SA n38 are covered by SA n41, Because it is a subset of SA n41 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to SA n41.

5G NR n41 MODE (SA_n41)

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	EIRP	500202 to 537000	500202 to 537000	Low, Middle, High	10MHz	QPSK,	1RB/ 0RB Offset
		500700 to 536496	500700 to 536496	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	501204 to 535998	501204 to 535998	Middle	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	500202 to 537000	500202 to 537000	Low, Middle, High	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		500700 to 536496	500700 to 536496	Low, Middle, High	15MHz		Outer_ Full
		501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
		500202 to 537000	500202 to 537000	Low, Middle, High	10MHz		Outer_ Full
		500700 to 536496	500700 to 536496	Low, Middle, High	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	500202 to 537000	500202 to 537000	Middle	10MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		500700 to 536496	500700 to 536496	Middle	15MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		501204 to 535998	501204 to 535998	Middle	20MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full



A	BAND EDGE	500202 to 537000	500202 to 537000	Low	10MHz	QPSK	1RB/ 0RB Offset
				High	10MHz	QPSK	Outer Full
		500700 to 536496	500700 to 536496	Low	15MHz	QPSK	1RB/ 50RB Offset
				High	15MHz	QPSK	Outer Full
		501204 to 535998	501204 to 535998	Low	20MHz	QPSK	1RB/ 0RB Offset
				High	20MHz	QPSK	Outer Full
				Low	20MHz	QPSK	1RB/ 50RB Offset
				High	20MHz	QPSK	Outer Full
A	CONDUCTED EMISSION	500202 to 537000	500202 to 537000	Low, Middle, High	500202 to 537000	QPSK	1RB/ 0RB Offset
		500700 to 536496	500700 to 536496	Low, Middle, High	500700 to 536496	QPSK	1RB/ 0RB Offset
		501204 to 535998	501204 to 535998	Low, Middle, High	501204 to 535998	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	500202 to 537000	500202 to 537000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		500700 to 536496	500700 to 536496	Middle	15MHz	QPSK	1RB/ 0RB Offset
		501204 to 535998	501204 to 535998	Middle	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_n41.



5G NR n66 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	EIRP	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	344000 to 354000	344000 to 354000	Middle	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz		Outer_ Full
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Low, Middle, High	20MHz		Outer_ Full
		342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz		Outer_ Full
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	342500 to 355500	342500 to 355500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		343000 to 355000	343000 to 355000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		343500 to 354500	343500 to 354500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		344000 to 354000	344000 to 354000	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	502008 to 535998	502008 to 535998	Low	5MHz	QPSK	1RB/ 0RB Offset
				High	5MHz	QPSK	Outer_ Full
		343000 to 355000	343000 to 355000	Low	10MHz	QPSK	1RB/ 0RB Offset
				High	10MHz	QPSK	Outer_ Full
		343500 to 354500	343500 to 354500	Low	15MHz	QPSK	1RB/ 0RB Offset
				High	15MHz	QPSK	Outer_ Full
				Low	15MHz	QPSK	1RB/ 0RB Offset
				High	15MHz	QPSK	Outer_ Full



A	CONDUCTED EMISSION	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		343000 to 355000	343000 to 355000	Middle	10MHz	QPSK	1RB/ 0RB Offset
		343500 to 354500	343500 to 354500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		344000 to 354000	344000 to 354000	Middle	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_n66.

5G NR n71 MODE (SA_n71)

EUT CONFIGU RE MODE	TESWT ITEM	AVAILAB LE CP- OFDM CHANNE L	AVAILABL E DFT-S- OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	ERP	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	134100 to 138100	134100 to 138100	Middle	15MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	QPSK	Outer_ Full
		133600 to 138600	133600 to 138600	Low, Middle, High	10MHz	QPSK	Outer_ Full
		134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	QPSK	Outer_ Full
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	133100 to 139100	133100 to 139100	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		133600 to 138600	133600 to 138600	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		134100 to 138100	134100 to 138100	Middle	15MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
		134600 to 137600	134600 to 137600	Low, Middle, High	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	133100 to 139100	133100 to 139100	Low	5MHz	QPSK	1RB/ 0RB Offset



				High	5MHz	QPSK	1RB/ 24RB Offset
							Outer Full
							1RB/ 0RB Offset
							1RB/ 24RB Offset
		133600 to 138600	133600 to 138600	Low	10MHz	QPSK	Outer Full
							1RB/ 0RB Offset
							1RB/ 51RB Offset
							Outer Full
		134100 to 138100	134100 to 138100	High	10MHz	QPSK	1RB/ 0RB Offset
							1RB/ 51RB Offset
							Outer Full
		134100 to 138100	134100 to 138100	Low	15MHz	QPSK	1RB/ 0RB Offset
							1RB/ 78RB Offset
							Outer Full
		134600 to 137600	134600 to 137600	High	15MHz	QPSK	1RB/ 0RB Offset
							1RB/ 78RB Offset
							Outer Full
		134600 to 137600	134600 to 137600	Low	20MHz	QPSK	1RB/ 0RB Offset
							1RB/ 78RB Offset
							Outer Full
		134600 to 137600	134600 to 137600	High	20MHz	QPSK	1RB/ 0RB Offset
							1RB/ 78RB Offset
							Outer Full
		133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
							1RB/ 0RB Offset
							1RB/ 0RB Offset
							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_n71.

5G NR n77(Part27Q)

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	EIRP	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		630500 to 636166	630500 to 636166	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	630668 to 636000	630668 to 636000	Middle	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	Outer_ Full
		630500 to 636166	630500 to 636166	Low, Middle, High	15MHz	QPSK	Outer_ Full
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	630334 to 636332	630334 to 636332	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		630500 to 636166	630500 to 636166	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		630668 to 636000	630668 to 636000	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	630334 to 636332	630334 to 636332	Low	10MHz	QPSK	1RB/ 0RB Offset
				High	10MHz	QPSK	Outer_ Full
		630500 to 636166	630500 to 636166	Low	15MHz	QPSK	1RB/ 24RB Offset
				High	15MHz	QPSK	Outer_ Full
		630668 to 636000	630668 to 636000	Low	15MHz	QPSK	1RB/ 78RB Offset
				High	15MHz	QPSK	Outer_ Full
				Low	20MHz	QPSK	1RB/ 0RB Offset
				High	20MHz	QPSK	Outer_ Full
A	CONDUCTED EMISSION	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset



		630500 to 636166	630500 to 636166	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	630500 to 636166	630500 to 636166	Middle	15MHz	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Middle	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 EIRP calculate presented in the report from worst SA n77(Part27Q).

5G NR n77(Part27O)

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	EIRP	647000 to 665000	647000 to 665000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		647168 to 664832	647168 to 664832	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	647334 to 664666	647334 to 664666	Middle	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	647000 to 665000	647000 to 665000	Low, Middle, High	10MHz	QPSK	Outer_ Full
		647168 to 664832	647168 to 664832	Low, Middle, High	15MHz	QPSK	Outer_ Full
		647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	647000 to 665000	647000 to 665000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		647168 to 664832	647168 to 664832	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		647334 to 664666	647334 to 664666	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	647000 to 665000	647000 to 665000	Low	10MHz	QPSK	1RB/ 0RB Offset
				High	10MHz	QPSK	Outer_ Full
							Outer_ Full
		647168 to 664832	647168 to 664832	Low	15MHz	QPSK	1RB/ 0RB Offset
				High	15MHz	QPSK	Outer_ Full
							Outer_ Full
		647334 to 664666	647334 to 664666	Low	20MHz	QPSK	1RB/ 78RB Offset
				High	20MHz	QPSK	Outer_ Full
							Outer_ Full



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				High	20MHz	QPSK	1RB/ 105RB Offset
							Outer Full
A	CONDUCTED EMISSION	647000 to 665000	647000 to 665000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		647168 to 664832	647168 to 664832	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	647000 to 665000	647000 to 665000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		647168 to 664832	647168 to 664832	Middle	15MHz	QPSK	1RB/ 0RB Offset
		647334 to 664666	647334 to 664666	Middle	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(Part 270).

5G NR Band n78(Part27Q) (SA_n78)

EUT CONFIGUR E MODE	TEST ITEM	AVAILAB LE CP- OFDM CHANNE L	AVAILABL E DFT-S- OFDM CHANNE L	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	EIRP	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		630500 to 636166	630500 to 636166	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	630334 to 636332	630334 to 636332	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		630500 to 636166	630500 to 636166	Middle	15MHz	QPSK	1RB/ 0RB Offset
		630668 to 636000	630668 to 636000	Middle	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 other conducted test data Please refer to SA 78(Part27Q) normal mode, Because it is a functionality of SA n78(Part27Q) with the same output power and supported bandwidths



TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 5V	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 4.75V/5V/5.25V	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5V	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 5V	Hanwen Xu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 5V	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	DC 5V	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5V	Hanwen Xu



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 22/24/27

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 / Portable station are limited to 7 watts e.r.p. (n5)

Mobile and portable stations are limited to 2 watts EIRP. (n2/n25)

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.(n38/n41)”

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(n66)

According to the specific rule Part 27.50(b)(10) and 27.50(c)(10) Fixed, mobile, and Portable stations (hand-held devices) transmitting in the 698-746 MHz, 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP(n12/n71)

According to the specific rule Part 27.50(j)(4) and Part 27.50(k)(3) ,Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.(n77/n78)

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.(n30)



3.1.2 TEST PROCEDURES

EIRP / ERP 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);

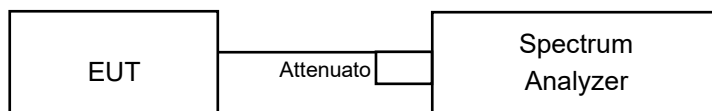
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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:

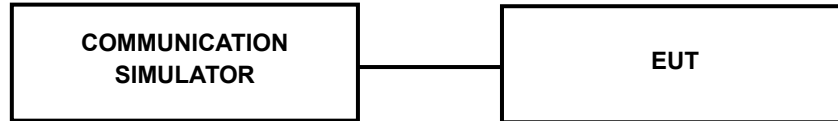
- The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.





3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



1. Connect the DUT transmitter output to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
2. Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
3. Set the span to twice the nominal EBW (span = 2 x EBW).
4. Set the resolution bandwidth (RBW) to approximately 1% of EBW.
5. Set the video bandwidth (VBW) to $\geq 3 \times \text{RBW}$
6. Select the average power (RMS) display detector.
7. Set the number of measurement points to ≥ 1001 .
8. Use auto-coupled sweep time.
9. Perform measurement over an interval of time when the transmission is continuous and at its maximum power level.
10. Utilize trace averaging over 100 traces in the power averaging mode.
11. Use the Band/Channel Power function to determine the integrated power over the full EBW.
12. Record the band power level.
13. Adjust the recorded level by applying appropriate correction factors for the measurement set-up.
14. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

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



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

n2 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		372000	376000	380000
		Frequency (MHz)		1860	1880	1900
20	Pi/2 BPSK	1	1	23.00	23.07	23.05
		1	53	22.95	23.04	22.83
		1	104	22.99	23.01	22.83
		50	0	22.88	23.02	23.02
		50	28	22.86	23.00	22.82
		50	56	22.99	22.98	22.90
		100	0	22.85	22.95	22.77
	QPSK	1	1	23.02	23.08	23.06
		1	53	23.00	23.06	23.05
		1	104	23.01	23.07	22.98
		50	0	22.99	23.02	22.82
		50	28	23.00	23.06	23.03
		50	56	22.98	23.00	22.90
		100	0	22.95	23.02	22.98
	16QAM	1	1	22.97	23.00	22.90
	64QAM	1	1	21.64	21.68	21.52
	256QAM	1	1	19.26	19.34	19.14
BW [MHz]	DFT-s-OFDM	Channel		371500	376000	380500
		Frequency (MHz)		1857.5	1880	1902.5
15	QPSK	1	1	22.82	22.90	22.95
BW [MHz]	DFT-s-OFDM	Channel		371000	376000	381000
		Frequency (MHz)		1855	1880	1905
10	QPSK	1	1	22.93	22.99	22.85
BW [MHz]	DFT-s-OFDM	Channel		370500	376000	381500
		Frequency (MHz)		1852.5	1880	1907.5
5	QPSK	1	1	22.81	22.97	22.88



n5 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		166800	167300	167800
		Frequency (MHz)		834	836.5	839
20	Pi/2 BPSK	1	1	23.32	23.32	23.29
		1	53	23.17	23.28	23.21
		1	104	23.19	23.31	23.19
		50	0	23.01	23.18	23.00
		50	28	23.16	23.32	23.19
		50	56	22.97	23.14	23.03
		100	0	23.29	23.32	23.14
	QPSK	1	1	23.35	23.37	23.32
		1	53	23.17	23.18	23.22
		1	104	23.28	23.27	23.20
		50	0	23.24	23.33	23.23
		50	28	23.32	23.35	23.30
		50	56	23.16	23.19	23.15
		100	0	23.30	23.33	23.26
	16QAM	1	1	23.20	23.24	23.03
	64QAM	1	1	21.58	21.79	21.69
	256QAM	1	1	19.79	19.82	19.68
BW [MHz]	DFT-s-OFDM	Channel		166300	167300	168300
		Frequency (MHz)		831.5	836.5	841.5
15	QPSK	1	1	23.30	23.30	23.31
BW [MHz]	DFT-s-OFDM	Channel		165800	167300	168800
		Frequency (MHz)		829	836.5	844
10	QPSK	1	1	23.28	23.18	23.24
BW [MHz]	DFT-s-OFDM	Channel		166300	167300	168300
		Frequency (MHz)		831.5	836.5	841.5
15	QPSK	1	1	23.22	23.28	23.30



n12 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		141300	141500	141700
		Frequency (MHz)		706.5	707.5	708.5
15	Pi/2 BPSK	1	1	23.20	23.25	23.21
		1	40	23.14	23.18	23.17
		1	77	23.09	23.15	23.04
		36	0	23.16	23.16	23.09
		36	22	23.17	23.22	23.18
		36	43	23.14	23.13	23.10
		75	0	23.15	23.17	23.08
	QPSK	1	1	23.22	23.27	23.24
		1	40	23.17	23.20	23.20
		1	77	23.12	23.24	23.22
		36	0	23.07	23.21	23.14
		36	22	23.20	23.24	23.22
		36	43	23.18	23.20	23.13
		75	0	23.17	23.22	23.20
	16QAM	1	1	23.22	23.18	23.22
	64QAM	1	1	21.42	21.56	21.46
	256QAM	1	1	19.69	19.74	19.75
BW [MHz]	DFT-s-OFDM	Channel		140800	141500	142200
		Frequency (MHz)		704	707.5	711
10	QPSK	1	1	23.21	23.13	23.11
BW [MHz]	DFT-s-OFDM	Channel		140300	141500	142700
		Frequency (MHz)		701.5	707.5	713.5
5	QPSK	1	1	23.22	23.25	23.21



n25 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		372000	376500	381000
		Frequency (MHz)		1860	1882.5	1905
20	Pi/2 BPSK	1	1	23.12	23.17	23.15
		1	53	22.94	23.11	23.00
		1	104	23.00	23.04	23.03
		50	0	23.06	23.04	23.05
		50	28	23.09	23.11	23.10
		50	56	22.92	22.89	22.93
		100	0	22.93	23.10	22.96
	QPSK	1	1	23.15	23.20	23.17
		1	53	23.04	23.14	23.07
		1	104	23.13	23.16	23.14
		50	0	23.10	23.08	23.11
		50	28	23.12	23.18	23.14
		50	56	22.95	23.04	23.00
		100	0	23.08	23.15	23.10
	16QAM	1	1	23.09	23.15	23.11
	64QAM	1	1	21.82	21.87	21.90
	256QAM	1	1	19.62	19.56	19.58
BW [MHz]	DFT-s-OFDM	Channel		371500	376500	381500
		Frequency (MHz)		1857.5	1882.5	1907.5
15	QPSK	1	1	23.14	23.16	23.19
BW [MHz]	DFT-s-OFDM	Channel		371000	376500	382000
		Frequency (MHz)		1855	1882.5	1910
10	QPSK	1	1	23.11	23.16	23.15
BW [MHz]	DFT-s-OFDM	Channel		370500	376500	382500
		Frequency (MHz)		1852.5	1882.5	1912.5
5	QPSK	1	1	23.05	23.08	23.17



n30 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel			462000	
		Frequency (MHz)			2310	
10	Pi/2 BPSK	1	1	/	21.27	/
		1	26	/	21.25	/
		1	50	/	21.20	/
		25	0	/	20.73	/
		25	14	/	21.24	/
		25	27	/	20.71	/
		50	0	/	20.75	/
	QPSK	1	1	/	21.30	/
		1	26	/	21.28	/
		1	50	/	21.23	/
		25	0	/	20.27	/
		25	14	/	21.28	/
		25	27	/	20.30	/
		50	0	/	20.27	/
	16QAM	1	1	/	20.34	/
	64QAM	1	1	/	18.82	/
	256QAM	1	1	/	16.77	/
BW [MHz]	DFT-s-OFDM	Channel		461500	462000	462500
		Frequency (MHz)		2307.5	2310	2312.5
5	QPSK	1	1	21.13	21.25	21.20



n66 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		344000	349000	354000
		Frequency (MHz)		1720	1745	1770
20	Pi/2 BPSK	1	1	22.75	22.80	22.94
		1	53	22.66	22.46	22.73
		1	104	22.54	22.65	22.77
		50	0	22.57	22.61	22.78
		50	28	22.68	22.79	22.90
		50	56	22.65	22.76	22.71
		100	0	22.59	22.65	22.87
	QPSK	1	1	22.78	22.83	22.98
		1	53	22.66	22.62	22.94
		1	104	22.57	22.73	22.90
		50	0	22.69	22.63	22.92
		50	28	22.76	22.79	22.95
		50	56	22.70	22.78	22.87
		100	0	22.72	22.76	22.93
	16QAM	1	1	22.78	22.80	22.95
	64QAM	1	1	21.48	21.56	21.47
	256QAM	1	1	19.16	19.26	19.15
BW [MHz]	DFT-s-OFDM	Channel		343500	349000	354500
		Frequency (MHz)		1717.5	1745	1772.5
15	QPSK	1	1	22.71	22.71	22.85
BW [MHz]	DFT-s-OFDM	Channel		343000	349000	355000
		Frequency (MHz)		1715	1745	1775
10	QPSK	1	1	22.62	22.81	22.94
BW [MHz]	DFT-s-OFDM	Channel		342500	349000	355500
		Frequency (MHz)		1712.5	1745	1777.5
5	QPSK	1	1	22.73	22.69	22.92



n71 (SCS 15kHz)						
BW [MHz]	DFT-s- OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		134600	136100	137600
		Frequency (MHz)		673	680.5	688
20	Pi/2 BPSK	1	1	23.09	23.18	23.15
		1	53	22.98	23.10	22.99
		1	104	23.05	23.01	23.04
		50	0	23.06	23.15	23.06
		50	28	23.07	23.17	23.11
		50	56	23.02	23.04	22.99
		100	0	23.00	23.12	23.05
	QPSK	1	1	23.14	23.20	23.18
		1	53	23.08	23.12	23.10
		1	104	23.12	23.15	23.11
		50	0	23.05	23.12	23.04
		50	28	23.10	23.17	23.15
		50	56	23.03	23.13	23.12
		100	0	23.07	23.13	23.10
	16QAM	1	1	22.60	22.65	22.50
	64QAM	1	1	20.93	21.02	21.03
	256QAM	1	1	18.95	18.91	18.95
BW [MHz]	DFT-s- OFDM	Channel		134100	136100	138100
		Frequency (MHz)		670.5	680.5	690.5
15	QPSK	1	1	23.15	23.05	23.12
BW [MHz]	DFT-s- OFDM	Channel		133600	136100	138600
		Frequency (MHz)		668	680.5	693
10	QPSK	1	1	23.08	23.14	23.05
BW [MHz]	DFT-s- OFDM	Channel		133100	136100	139100
		Frequency (MHz)		665.5	680.5	695.5
5	QPSK	1	1	23.14	23.13	23.10



NR Redcap mode:

n2 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		372000	376000	380000
		Frequency (MHz)		1860	1880	1900
20	Pi/2 BPSK	1	1	22.93	22.88	22.97
		1	53	22.83	22.95	22.64
		1	104	22.92	22.84	22.84
		50	0	22.70	22.99	23.02
		50	28	22.86	22.96	22.73
		50	56	22.81	22.84	22.88
		100	0	22.81	22.82	22.62
	QPSK	1	1	22.98	23.06	23.03
		1	53	22.85	22.90	22.88
		1	104	22.81	22.95	22.81
		50	0	22.92	22.96	22.72
		50	28	22.96	23.03	22.99
		50	56	22.94	22.79	22.82
		100	0	22.94	23.00	22.96
	16QAM	1	1	22.77	22.81	22.74
	64QAM	1	1	21.61	21.66	21.38
	256QAM	1	1	19.07	19.31	19.12
BW [MHz]	DFT-s-OFDM	Channel		371500	376000	380500
		Frequency (MHz)		1857.5	1880	1902.5
15	QPSK	1	1	22.89	23.03	22.99
BW [MHz]	DFT-s-OFDM	Channel		371000	376000	381000
		Frequency (MHz)		1855	1880	1905
10	QPSK	1	1	22.90	22.90	22.90
BW [MHz]	DFT-s-OFDM	Channel		370500	376000	381500
		Frequency (MHz)		1852.5	1880	1907.5
5	QPSK	1	1	22.91	22.88	22.95



n5 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		166800	167300	167800
		Frequency (MHz)		834	836.5	839
20	Pi/2 BPSK	1	1	23.29	23.27	23.19
		1	53	22.99	23.25	23.02
		1	104	23.15	23.15	23.19
		50	0	22.82	23.16	22.82
		50	28	23.00	23.23	23.08
		50	56	22.81	23.09	22.83
		100	0	23.20	23.25	22.98
	QPSK	1	1	23.25	23.35	23.20
		1	53	23.02	23.10	23.01
		1	104	23.19	23.18	23.11
		50	0	23.13	23.29	23.08
		50	28	23.22	23.33	23.18
		50	56	23.02	23.15	23.04
		100	0	23.20	23.30	23.11
	16QAM	1	1	23.12	23.19	23.02
	64QAM	1	1	21.42	21.75	21.49
	256QAM	1	1	19.61	19.67	19.53
BW [MHz]	DFT-s-OFDM	Channel		166300	167300	168300
		Frequency (MHz)		831.5	836.5	841.5
15	QPSK	1	1	23.30	23.21	23.09
BW [MHz]	DFT-s-OFDM	Channel		165800	167300	168800
		Frequency (MHz)		829	836.5	844
10	QPSK	1	1	23.18	23.17	23.18
BW [MHz]	DFT-s-OFDM	Channel		166300	167300	168300
		Frequency (MHz)		831.5	836.5	841.5
15	QPSK	1	1	23.12	23.12	23.29



n12 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		141300	141500	141700
		Frequency (MHz)		706.5	707.5	708.5
15	Pi/2 BPSK	1	1	23.04	23.11	23.19
		1	40	23.09	23.11	23.07
		1	77	23.06	22.96	22.83
		36	0	23.02	23.02	23.05
		36	22	23.13	23.01	22.98
		36	43	22.96	23.03	23.01
		75	0	23.00	23.17	23.06
	QPSK	1	1	23.13	23.24	23.16
		1	40	23.10	23.04	23.02
		1	77	22.94	23.19	23.11
		36	0	22.89	23.20	23.03
		36	22	23.11	23.21	23.15
		36	43	23.10	23.18	23.11
		75	0	23.17	23.20	23.12
	16QAM	1	1	23.05	23.13	23.11
	64QAM	1	1	21.28	21.37	21.36
	256QAM	1	1	19.69	19.65	19.61
BW [MHz]	DFT-s-OFDM	Channel		140800	141500	142200
		Frequency (MHz)		704	707.5	711
10	QPSK	1	1	23.05	23.10	23.12
BW [MHz]	DFT-s-OFDM	Channel		140300	141500	142700
		Frequency (MHz)		701.5	707.5	713.5
5	QPSK	1	1	23.19	23.07	23.22



n25 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		372000	376500	381000
		Frequency (MHz)		1860	1882.5	1905
20	Pi/2 BPSK	1	1	23.09	23.12	23.04
		1	53	22.81	23.06	22.82
		1	104	22.99	22.99	22.86
		50	0	23.02	23.04	22.95
		50	28	23.03	23.01	22.93
		50	56	22.92	22.75	22.82
		100	0	22.81	22.90	22.96
	QPSK	1	1	23.16	23.18	23.11
		1	53	22.89	23.02	22.86
		1	104	22.95	23.07	22.98
		50	0	23.11	23.05	22.99
		50	28	23.14	23.15	23.08
		50	56	22.96	22.92	22.93
		100	0	22.92	23.11	23.01
	16QAM	1	1	22.92	23.08	23.03
	64QAM	1	1	21.63	21.77	21.73
	256QAM	1	1	19.53	19.47	19.37
BW [MHz]	DFT-s-OFDM	Channel		371500	376500	381500
		Frequency (MHz)		1857.5	1882.5	1907.5
15	QPSK	1	1	22.95	22.99	23.14
BW [MHz]	DFT-s-OFDM	Channel		371000	376500	382000
		Frequency (MHz)		1855	1882.5	1910
10	QPSK	1	1	23.08	22.96	23.15
BW [MHz]	DFT-s-OFDM	Channel		370500	376500	382500
		Frequency (MHz)		1852.5	1882.5	1912.5
5	QPSK	1	1	23.10	22.98	23.05



n30 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel			462000	
		Frequency (MHz)			2310	
10	Pi/2 BPSK	1	1	/	21.18	/
		1	26	/	21.09	/
		1	50	/	21.09	/
		25	0	/	20.74	/
		25	14	/	21.22	/
		25	27	/	20.64	/
		50	0	/	20.74	/
	QPSK	1	1	/	21.26	/
		1	26	/	21.22	/
		1	50	/	21.24	/
		25	0	/	20.27	/
		25	14	/	21.23	/
		25	27	/	20.30	/
		50	0	/	20.22	/
	16QAM	1	1	/	20.14	/
	64QAM	1	1	/	18.78	/
	256QAM	1	1	/	16.63	/
BW [MHz]	DFT-s-OFDM	Channel		461500	462000	462500
		Frequency (MHz)		2307.5	2310	2312.5
5	QPSK	1	1	21.06	21.16	21.21



n38 (SCS 30kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		516000	519000	522000
		Frequency (MHz)		2580	2595	2610
20	Pi/2 BPSK	1	1	22.88	22.90	22.98
		1	26	22.78	22.83	22.77
		1	49	22.87	22.82	22.78
		25	0	22.63	22.73	22.93
		25	13	22.78	22.86	22.95
		25	26	22.77	22.74	22.75
		50	0	22.73	22.82	22.91
	QPSK	1	1	22.90	22.94	23.02
		1	26	22.82	22.83	22.90
		1	49	22.88	22.92	22.90
		25	0	22.76	22.83	22.97
		25	13	22.87	22.92	23.00
		25	26	22.85	22.79	22.92
		50	0	22.84	22.90	22.96
	16QAM	1	1	22.83	22.90	23.00
	64QAM	1	1	21.29	21.36	21.45
	256QAM	1	1	19.11	19.15	19.23
BW [MHz]	DFT-s-OFDM	Channel		515500	519000	522500
		Frequency (MHz)		2577.5	2595	2612.5
15	QPSK	1	1	22.79	22.73	22.97
BW [MHz]	DFT-s-OFDM	Channel		515000	519000	523000
		Frequency (MHz)		2575	2595	2615
10	QPSK	1	1	22.89	22.77	22.89



FCC_n41 (SCS 30kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20	Pi/2 BPSK	1	1	23.12	23.17	23.15
		1	26	23.10	23.16	23.09
		1	49	23.06	23.06	22.98
		25	0	23.02	22.95	22.94
		25	13	23.10	23.14	23.11
		25	26	22.88	23.07	22.91
		50	0	23.07	23.11	23.09
	QPSK	1	1	23.15	23.20	23.17
		1	26	23.08	23.18	23.09
		1	49	23.00	23.10	22.92
		25	0	23.07	23.06	22.99
		25	13	23.12	23.18	23.14
		25	26	23.00	23.12	22.93
		50	0	23.10	23.15	23.11
	16QAM	1	1	22.87	23.01	22.93
	64QAM	1	1	22.97	23.14	22.96
	256QAM	1	1	21.54	21.53	21.37
BW [MHz]	DFT-s-OFDM	Channel		500700	518598	536496
		Frequency (MHz)		2503.5	2592.99	2682.48
15	QPSK	1	1	23.13	23.12	23.02
BW [MHz]	DFT-s-OFDM	Channel		500202	518598	537000
		Frequency (MHz)		2501.01	2592.99	2685
10	QPSK	1	1	23.12	23.15	23.13



n66 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		344000	349000	354000
		Frequency (MHz)		1720	1745	1770
20	Pi/2 BPSK	1	1	22.55	22.80	22.80
		1	53	22.67	22.45	22.61
		1	104	22.54	22.57	22.67
		50	0	22.43	22.52	22.69
		50	28	22.56	22.70	22.84
		50	56	22.53	22.56	22.65
		100	0	22.55	22.62	22.85
	QPSK	1	1	22.79	22.84	22.96
		1	53	22.53	22.57	22.86
		1	104	22.51	22.61	22.89
		50	0	22.59	22.47	22.76
		50	28	22.73	22.80	22.95
		50	56	22.61	22.73	22.66
		100	0	22.71	22.77	22.92
	16QAM	1	1	22.72	22.66	22.78
	64QAM	1	1	21.45	21.37	21.45
	256QAM	1	1	19.07	19.17	18.97
BW [MHz]	DFT-s-OFDM	Channel		343500	349000	354500
		Frequency (MHz)		1717.5	1745	1772.5
15	QPSK	1	1	22.72	22.60	22.86
BW [MHz]	DFT-s-OFDM	Channel		343000	349000	355000
		Frequency (MHz)		1715	1745	1775
10	QPSK	1	1	22.73	22.80	22.93
BW [MHz]	DFT-s-OFDM	Channel		342500	349000	355500
		Frequency (MHz)		1712.5	1745	1777.5
5	QPSK	1	1	22.61	22.76	22.75



n71 (SCS 15kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		134600	136100	137600
		Frequency (MHz)		673	680.5	688
20	Pi/2 BPSK	1	1	23.06	23.02	23.08
		1	53	22.77	23.03	22.78
		1	104	23.06	22.96	22.92
		50	0	22.90	23.06	23.04
		50	28	22.98	23.10	22.93
		50	56	22.92	22.98	22.82
		100	0	22.86	22.93	22.99
	QPSK	1	1	23.05	23.18	23.09
		1	53	22.99	23.09	23.00
		1	104	22.96	23.09	23.00
		50	0	22.91	23.10	22.99
		50	28	23.03	23.13	23.07
		50	56	22.95	23.08	22.95
		100	0	23.02	23.10	23.02
	16QAM	1	1	22.42	22.51	22.51
	64QAM	1	1	20.94	20.97	20.87
	256QAM	1	1	18.93	18.77	18.88
BW [MHz]	DFT-s-OFDM	Channel		134100	136100	138100
		Frequency (MHz)		670.5	680.5	690.5
15	QPSK	1	1	22.96	22.99	22.99
BW [MHz]	DFT-s-OFDM	Channel		133600	136100	138600
		Frequency (MHz)		668	680.5	693
10	QPSK	1	1	22.98	23.07	23.04
BW [MHz]	DFT-s-OFDM	Channel		133100	136100	139100
		Frequency (MHz)		665.5	680.5	695.5
5	QPSK	1	1	23.05	23.08	23.10



Part27Q_n77 (SCS 30kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		630668	633332	636000
		Frequency (MHz)		3460.02	3499.98	3540
20	Pi/2 BPSK	1	1	23.11	23.13	23.00
		1	26	23.01	22.98	22.98
		1	49	22.94	23.07	22.92
		25	0	23.00	23.04	22.90
		25	13	23.07	23.10	22.95
		25	26	22.89	23.03	22.82
		50	0	23.03	23.06	22.92
	QPSK	1	1	23.14	23.15	23.02
		1	26	23.10	23.13	22.97
		1	49	23.08	23.10	23.00
		25	0	23.07	23.08	22.94
		25	13	23.12	23.13	23.00
		25	26	22.94	23.06	22.96
		50	0	23.08	23.10	22.97
	16QAM	1	1	22.96	23.12	22.95
	64QAM	1	1	23.03	23.08	22.98
	256QAM	1	1	21.51	21.59	21.47
BW [MHz]	DFT-s-OFDM	Channel		630500	633332	636166
		Frequency (MHz)		3457.5	3499.98	3542.49
15	QPSK	1	1	23.00	23.14	23.00
BW [MHz]	DFT-s-OFDM	Channel		630334	633332	636332
		Frequency (MHz)		3455.01	3499.98	3544.98
10	QPSK	1	1	23.14	23.06	22.94



Part27O_n77 (SCS 30kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		647334	656000	664666
		Frequency (MHz)		3710.01	3840	3969.99
20	Pi/2 BPSK	1	1	22.83	23.03	22.75
		1	26	22.65	23.00	22.64
		1	49	22.80	22.80	22.53
		25	0	22.62	22.96	22.56
		25	13	22.80	23.01	22.72
		25	26	22.64	22.83	22.68
		50	0	22.78	22.98	22.70
	QPSK	1	1	22.85	23.06	22.78
		1	26	22.76	23.03	22.74
		1	49	22.83	22.95	22.65
		25	0	22.75	22.96	22.69
		25	13	22.82	23.04	22.75
		25	26	22.76	22.98	22.72
		50	0	22.80	23.02	22.72
	16QAM	1	1	22.76	22.93	22.79
	64QAM	1	1	22.76	23.01	22.74
	256QAM	1	1	21.42	21.64	21.45
BW [MHz]	DFT-s-OFDM	Channel		647168	656000	664832
		Frequency (MHz)		3707.52	3840	3972.48
15	QPSK	1	1	22.73	22.97	22.64
BW [MHz]	DFT-s-OFDM	Channel		647000	656000	665000
		Frequency (MHz)		3705	3840	3975
10	QPSK	1	1	22.84	23.03	22.65



Part27Q_n78 (SCS 30kHz)						
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High
		Channel		630668	633332	636000
		Frequency (MHz)		3460.02	3499.98	3540
20	Pi/2 BPSK	1	1	23.09	23.12	23.00
		1	26	22.90	23.05	22.87
		1	49	22.78	22.92	22.98
		25	0	22.89	22.94	22.72
		25	13	23.06	23.10	22.98
		25	26	22.83	22.92	22.80
		50	0	23.03	23.08	22.95
	QPSK	1	1	23.12	23.14	23.03
		1	26	23.10	23.09	23.01
		1	49	22.98	23.11	23.00
		25	0	23.04	23.08	22.92
		25	13	23.10	23.12	23.00
		25	26	23.02	23.07	22.95
		50	0	23.07	23.10	22.97
	16QAM	1	1	22.99	23.06	22.90
	64QAM	1	1	23.10	23.04	22.83
	256QAM	1	1	21.52	21.55	21.50
BW [MHz]	DFT-s-OFDM	Channel		630500	633332	636166
		Frequency (MHz)		3457.5	3499.98	3542.49
15	QPSK	1	1	23.06	23.11	22.89
BW [MHz]	DFT-s-OFDM	Channel		630334	633332	636332
		Frequency (MHz)		3455.01	3499.98	3544.98
10	QPSK	1	1	23.03	23.09	22.98

**EIRP/ERP:**

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	23.00	0.5	23.50	223.87	2
	376000	1880	23.07	0.5	23.57	227.51	2
	380000	1900	23.05	0.5	23.55	226.46	2
20M-QPSK	372000	1860	23.02	0.5	23.52	224.91	2
	376000	1880	23.08	0.5	23.58	228.03	2
	380000	1900	23.06	0.5	23.56	226.99	2
20M- 16QAM	372000	1860	22.97	0.5	23.47	222.33	2
	376000	1880	23.00	0.5	23.50	223.87	2
	380000	1900	22.90	0.5	23.40	218.78	2
20M- 64QAM	372000	1860	21.64	0.5	22.14	163.68	2
	376000	1880	21.68	0.5	22.18	165.20	2
	380000	1900	21.52	0.5	22.02	159.22	2
20M- 256QAM	372000	1860	19.26	0.5	19.76	94.62	2
	376000	1880	19.34	0.5	19.84	96.38	2
	380000	1900	19.14	0.5	19.64	92.04	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	371500	1857.5	22.82	0.5	23.32	214.78	2
	376000	1880	22.90	0.5	23.40	218.78	2
	380500	1902.5	22.95	0.5	23.45	221.31	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	371000	1855	22.93	0.5	23.43	220.29	2
	376000	1880	22.99	0.5	23.49	223.36	2
	381000	1905	22.85	0.5	23.35	216.27	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	370500	1852.5	22.81	0.5	23.31	214.29	2
	376000	1880	22.97	0.5	23.47	222.33	2
	381500	1907.5	22.88	0.5	23.38	217.77	2



n5 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
20M-Pi/2 BPSK	166800	834	23.32	-1.7	19.47	88.51	7
	167300	836.5	23.32	-1.7	19.47	88.51	7
	167800	839	23.29	-1.7	19.44	87.90	7
20M-QPSK	166800	834	23.35	-1.7	19.50	89.13	7
	167300	836.5	23.37	-1.7	19.52	89.54	7
	167800	839	23.32	-1.7	19.47	88.51	7
20M- 16QAM	166800	834	23.20	-1.7	19.35	86.10	7
	167300	836.5	23.24	-1.7	19.39	86.90	7
	167800	839	23.03	-1.7	19.18	82.79	7
20M- 64QAM	166800	834	21.58	-1.7	17.73	59.29	7
	167300	836.5	21.79	-1.7	17.94	62.23	7
	167800	839	21.69	-1.7	17.84	60.81	7
20M- 256QAM	166800	834	19.79	-1.7	15.94	39.26	7
	167300	836.5	19.82	-1.7	15.97	39.54	7
	167800	839	19.68	-1.7	15.83	38.28	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
15M-QPSK	166300	831.5	23.30	-1.7	19.45	88.10	7
	167300	836.5	23.30	-1.7	19.45	88.10	7
	168300	841.5	23.31	-1.7	19.46	88.31	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
10M-QPSK	165800	829	23.28	-1.7	19.43	87.70	7
	167300	836.5	23.18	-1.7	19.33	85.70	7
	168800	844	23.24	-1.7	19.39	86.90	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
15M-QPSK	166300	831.5	23.22	-1.7	19.37	86.50	7
	167300	836.5	23.28	-1.7	19.43	87.70	7
	168300	841.5	23.30	-1.7	19.45	88.10	7



n12 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
15M-Pi/2 BPSK	141300	706.5	23.20	-0.9	20.15	103.51	3
	141500	707.5	23.25	-0.9	20.20	104.71	3
	141700	708.5	23.21	-0.9	20.16	103.75	3
15M-QPSK	141300	706.5	23.22	-0.9	20.17	103.99	3
	141500	707.5	23.27	-0.9	20.22	105.20	3
	141700	708.5	23.24	-0.9	20.19	104.47	3
15M- 16QAM	141300	706.5	23.22	-0.9	20.17	103.99	3
	141500	707.5	23.18	-0.9	20.13	103.04	3
	141700	708.5	23.22	-0.9	20.17	103.99	3
15M- 64QAM	141300	706.5	21.42	-0.9	18.37	68.71	3
	141500	707.5	21.56	-0.9	18.51	70.96	3
	141700	708.5	21.46	-0.9	18.41	69.34	3
15M- 256QAM	141300	706.5	19.69	-0.9	16.64	46.13	3
	141500	707.5	19.74	-0.9	16.69	46.67	3
	141700	708.5	19.75	-0.9	16.70	46.77	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
10M-QPSK	140800	704	23.21	-0.9	20.16	103.75	3
	141500	707.5	23.13	-0.9	20.08	101.86	3
	142200	711	23.11	-0.9	20.06	101.39	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
5M-QPSK	140300	701.5	23.22	-0.9	20.17	103.99	3
	141500	707.5	23.25	-0.9	20.20	104.71	3
	142700	713.5	23.21	-0.9	20.16	103.75	3



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	23.12	0.5	23.62	230.14	2
	376500	1882.5	23.17	0.5	23.67	232.81	2
	381000	1905	23.15	0.5	23.65	231.74	2
20M-QPSK	372000	1860	23.15	0.5	23.65	231.74	2
	376500	1882.5	23.20	0.5	23.70	234.42	2
	381000	1905	23.17	0.5	23.67	232.81	2
20M- 16QAM	372000	1860	23.09	0.5	23.59	228.56	2
	376500	1882.5	23.15	0.5	23.65	231.74	2
	381000	1905	23.11	0.5	23.61	229.61	2
20M- 64QAM	372000	1860	21.82	0.5	22.32	170.61	2
	376500	1882.5	21.87	0.5	22.37	172.58	2
	381000	1905	21.90	0.5	22.40	173.78	2
20M- 256QAM	372000	1860	19.62	0.5	20.12	102.80	2
	376500	1882.5	19.56	0.5	20.06	101.39	2
	381000	1905	19.58	0.5	20.08	101.86	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	371500	1857.5	23.14	0.5	23.64	231.21	2
	376500	1882.5	23.16	0.5	23.66	232.27	2
	381500	1907.5	23.19	0.5	23.69	233.88	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	371000	1855	23.11	0.5	23.61	229.61	2
	376500	1882.5	23.16	0.5	23.66	232.27	2
	382000	1910	23.15	0.5	23.65	231.74	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	370500	1852.5	23.05	0.5	23.55	226.46	2
	376500	1882.5	23.08	0.5	23.58	228.03	2
	382500	1912.5	23.17	0.5	23.67	232.81	2



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	21.27	2.2	23.47	222.33	0.25
10M-QPSK	462000	2310	21.30	2.2	23.50	223.87	0.25
10M- 16QAM	462000	2310	20.34	2.2	22.54	179.47	0.25
10M- 64QAM	462000	2310	18.82	2.2	21.02	126.47	0.25
10M- 256QAM	462000	2310	16.77	2.2	18.97	78.89	0.25
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	461500	2307.5	21.13	2.2	23.33	215.28	0.25
	462000	2310	21.25	2.2	23.45	221.31	0.25
	462500	2312.5	21.20	2.2	23.40	218.78	0.25



n66 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	344000	1720	22.75	0.4	23.15	206.54	1
	349000	1745	22.80	0.4	23.20	208.93	1
	354000	1770	22.94	0.4	23.34	215.77	1
20M-QPSK	344000	1720	22.78	0.4	23.18	207.97	1
	349000	1745	22.83	0.4	23.23	210.38	1
	354000	1770	22.98	0.4	23.38	217.77	1
20M- 16QAM	344000	1720	22.78	0.4	23.18	207.97	1
	349000	1745	22.80	0.4	23.20	208.93	1
	354000	1770	22.95	0.4	23.35	216.27	1
20M- 64QAM	344000	1720	21.48	0.4	21.88	154.17	1
	349000	1745	21.56	0.4	21.96	157.04	1
	354000	1770	21.47	0.4	21.87	153.82	1
20M- 256QAM	344000	1720	19.16	0.4	19.56	90.36	1
	349000	1745	19.26	0.4	19.66	92.47	1
	354000	1770	19.15	0.4	19.55	90.16	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	343500	1717.5	22.71	0.4	23.11	204.64	1
	349000	1745	22.71	0.4	23.11	204.64	1
	354500	1772.5	22.85	0.4	23.25	211.35	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	343000	1715	22.62	0.4	23.02	200.45	1
	349000	1745	22.81	0.4	23.21	209.41	1
	355000	1775	22.94	0.4	23.34	215.77	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	342500	1712.5	22.73	0.4	23.13	205.59	1
	349000	1745	22.69	0.4	23.09	203.70	1
	355500	1777.5	22.92	0.4	23.32	214.78	1



n71 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20M-Pi/2 BPSK	134600	673	23.09	-2.5	18.44	69.82	3
	136100	680.5	23.18	-2.5	18.53	71.29	3
	137600	688	23.15	-2.5	18.50	70.79	3
20M-QPSK	134600	673	23.14	-2.5	18.49	70.63	3
	136100	680.5	23.20	-2.5	18.55	71.61	3
	137600	688	23.18	-2.5	18.53	71.29	3
20M- 16QAM	134600	673	22.60	-2.5	17.95	62.37	3
	136100	680.5	22.65	-2.5	18.00	63.10	3
	137600	688	22.50	-2.5	17.85	60.95	3
20M- 64QAM	134600	673	20.93	-2.5	16.28	42.46	3
	136100	680.5	21.02	-2.5	16.37	43.35	3
	137600	688	21.03	-2.5	16.38	43.45	3
20M- 256QAM	134600	673	18.95	-2.5	14.30	26.92	3
	136100	680.5	18.91	-2.5	14.26	26.67	3
	137600	688	18.95	-2.5	14.30	26.92	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
15M-QPSK	134100	670.5	23.15	-2.5	18.50	70.79	3
	136100	680.5	23.05	-2.5	18.40	69.18	3
	138100	690.5	23.12	-2.5	18.47	70.31	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
10M-QPSK	133600	668	23.08	-2.5	18.43	69.66	3
	136100	680.5	23.14	-2.5	18.49	70.63	3
	138600	693	23.05	-2.5	18.40	69.18	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
5M-QPSK	133100	665.5	23.14	-2.5	18.49	70.63	3
	136100	680.5	23.13	-2.5	18.48	70.47	3
	139100	695.5	23.10	-2.5	18.45	69.98	3



NR Redcap mode:

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	22.93	0.5	23.43	220.29	2
	376000	1880	22.99	0.5	23.49	223.36	2
	380000	1900	23.02	0.5	23.52	224.91	2
20M-QPSK	372000	1860	22.98	0.5	23.48	222.84	2
	376000	1880	23.06	0.5	23.56	226.99	2
	380000	1900	23.03	0.5	23.53	225.42	2
20M- 16QAM	372000	1860	22.77	0.5	23.27	212.32	2
	376000	1880	22.81	0.5	23.31	214.29	2
	380000	1900	22.74	0.5	23.24	210.86	2
20M- 64QAM	372000	1860	21.61	0.5	22.11	162.55	2
	376000	1880	21.66	0.5	22.16	164.44	2
	380000	1900	21.38	0.5	21.88	154.17	2
20M- 256QAM	372000	1860	19.07	0.5	19.57	90.57	2
	376000	1880	19.31	0.5	19.81	95.72	2
	380000	1900	19.12	0.5	19.62	91.62	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	371500	1857.5	22.89	0.5	23.39	218.27	2
	376000	1880	23.03	0.5	23.53	225.42	2
	380500	1902.5	22.99	0.5	23.49	223.36	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	371000	1855	22.90	0.5	23.40	218.78	2
	376000	1880	22.90	0.5	23.40	218.78	2
	381000	1905	22.90	0.5	23.40	218.78	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	370500	1852.5	22.91	0.5	23.41	219.28	2
	376000	1880	22.88	0.5	23.38	217.77	2
	381500	1907.5	22.95	0.5	23.45	221.31	2



n5 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
20M-Pi/2 BPSK	166800	834	23.29	-1.7	19.44	87.90	7
	167300	836.5	23.27	-1.7	19.42	87.50	7
	167800	839	23.19	-1.7	19.34	85.90	7
20M-QPSK	166800	834	23.25	-1.7	19.40	87.10	7
	167300	836.5	23.35	-1.7	19.50	89.13	7
	167800	839	23.20	-1.7	19.35	86.10	7
20M- 16QAM	166800	834	23.12	-1.7	19.27	84.53	7
	167300	836.5	23.19	-1.7	19.34	85.90	7
	167800	839	23.02	-1.7	19.17	82.60	7
20M- 64QAM	166800	834	21.42	-1.7	17.57	57.15	7
	167300	836.5	21.75	-1.7	17.90	61.66	7
	167800	839	21.49	-1.7	17.64	58.08	7
20M- 256QAM	166800	834	19.61	-1.7	15.76	37.67	7
	167300	836.5	19.67	-1.7	15.82	38.19	7
	167800	839	19.53	-1.7	15.68	36.98	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
15M-QPSK	166300	831.5	23.30	-1.7	19.45	88.10	7
	167300	836.5	23.21	-1.7	19.36	86.30	7
	168300	841.5	23.09	-1.7	19.24	83.95	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
10M-QPSK	165800	829	23.18	-1.7	19.33	85.70	7
	167300	836.5	23.17	-1.7	19.32	85.51	7
	168800	844	23.18	-1.7	19.33	85.70	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
15M-QPSK	166300	831.5	23.12	-1.7	19.27	84.53	7
	167300	836.5	23.12	-1.7	19.27	84.53	7
	168300	841.5	23.29	-1.7	19.44	87.90	7



n12 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
15M-Pi/2 BPSK	141300	706.5	23.13	-0.9	20.08	101.86	3
	141500	707.5	23.17	-0.9	20.12	102.80	3
	141700	708.5	23.19	-0.9	20.14	103.28	3
15M-QPSK	141300	706.5	23.17	-0.9	20.12	102.80	3
	141500	707.5	23.24	-0.9	20.19	104.47	3
	141700	708.5	23.16	-0.9	20.11	102.57	3
15M- 16QAM	141300	706.5	23.05	-0.9	20.00	100.00	3
	141500	707.5	23.13	-0.9	20.08	101.86	3
	141700	708.5	23.11	-0.9	20.06	101.39	3
15M- 64QAM	141300	706.5	21.28	-0.9	18.23	66.53	3
	141500	707.5	21.37	-0.9	18.32	67.92	3
	141700	708.5	21.36	-0.9	18.31	67.76	3
15M- 256QAM	141300	706.5	19.69	-0.9	16.64	46.13	3
	141500	707.5	19.65	-0.9	16.60	45.71	3
	141700	708.5	19.61	-0.9	16.56	45.29	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
10M-QPSK	140800	704	23.05	-0.9	20.00	100.00	3
	141500	707.5	23.10	-0.9	20.05	101.16	3
	142200	711	23.12	-0.9	20.07	101.62	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
5M-QPSK	140300	701.5	23.19	-0.9	20.14	103.28	3
	141500	707.5	23.07	-0.9	20.02	100.46	3
	142700	713.5	23.22	-0.9	20.17	103.99	3



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	23.09	0.5	23.59	228.56	2
	376500	1882.5	23.12	0.5	23.62	230.14	2
	381000	1905	23.04	0.5	23.54	225.94	2
20M-QPSK	372000	1860	23.16	0.5	23.66	232.27	2
	376500	1882.5	23.18	0.5	23.68	233.35	2
	381000	1905	23.11	0.5	23.61	229.61	2
20M- 16QAM	372000	1860	22.92	0.5	23.42	219.79	2
	376500	1882.5	23.08	0.5	23.58	228.03	2
	381000	1905	23.03	0.5	23.53	225.42	2
20M- 64QAM	372000	1860	21.63	0.5	22.13	163.31	2
	376500	1882.5	21.77	0.5	22.27	168.66	2
	381000	1905	21.73	0.5	22.23	167.11	2
20M- 256QAM	372000	1860	19.53	0.5	20.03	100.69	2
	376500	1882.5	19.47	0.5	19.97	99.31	2
	381000	1905	19.37	0.5	19.87	97.05	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	371500	1857.5	22.95	0.5	23.45	221.31	2
	376500	1882.5	22.99	0.5	23.49	223.36	2
	381500	1907.5	23.14	0.5	23.64	231.21	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	371000	1855	23.08	0.5	23.58	228.03	2
	376500	1882.5	22.96	0.5	23.46	221.82	2
	382000	1910	23.15	0.5	23.65	231.74	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	370500	1852.5	23.10	0.5	23.60	229.09	2
	376500	1882.5	22.98	0.5	23.48	222.84	2
	382500	1912.5	23.05	0.5	23.55	226.46	2



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	21.22	2.2	23.42	219.79	0.25
10M-QPSK	462000	2310	21.26	2.2	23.46	221.82	0.25
10M- 16QAM	462000	2310	20.14	2.2	22.34	171.40	0.25
10M- 64QAM	462000	2310	18.78	2.2	20.98	125.31	0.25
10M- 256QAM	462000	2310	16.63	2.2	18.83	76.38	0.25
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	461500	2307.5	21.06	2.2	23.26	211.84	0.25
	462000	2310	21.16	2.2	23.36	216.77	0.25
	462500	2312.5	21.21	2.2	23.41	219.28	0.25



n38 (SCS 30kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	516000	2580	22.88	1.2	24.08	255.86	2
	519000	2595	22.90	1.2	24.10	257.04	2
	522000	2610	22.98	1.2	24.18	261.82	2
20M-QPSK	516000	2580	22.90	1.2	24.10	257.04	2
	519000	2595	22.94	1.2	24.14	259.42	2
	522000	2610	23.02	1.2	24.22	264.24	2
20M- 16QAM	516000	2580	22.83	1.2	24.03	252.93	2
	519000	2595	22.90	1.2	24.10	257.04	2
	522000	2610	23.00	1.2	24.20	263.03	2
20M- 64QAM	516000	2580	21.29	1.2	22.49	177.42	2
	519000	2595	21.36	1.2	22.56	180.30	2
	522000	2610	21.45	1.2	22.65	184.08	2
20M- 256QAM	516000	2580	19.11	1.2	20.31	107.40	2
	519000	2595	19.15	1.2	20.35	108.39	2
	522000	2610	19.23	1.2	20.43	110.41	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	515500	2577.5	22.79	1.2	23.99	250.61	2
	519000	2595	22.73	1.2	23.93	247.17	2
	522500	2612.5	22.97	1.2	24.17	261.22	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	515000	2575	22.89	1.2	24.09	256.45	2
	519000	2595	22.77	1.2	23.97	249.46	2
	523000	2615	22.89	1.2	24.09	256.45	2



FCC_n41 (SCS 30kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	501204	2506.02	23.12	1.4	24.52	283.14	2
	518598	2592.99	23.17	1.4	24.57	286.42	2
	535998	2679.99	23.15	1.4	24.55	285.10	2
20M-QPSK	501204	2506.02	23.15	1.4	24.55	285.10	2
	518598	2592.99	23.20	1.4	24.60	288.40	2
	535998	2679.99	23.17	1.4	24.57	286.42	2
20M- 16QAM	501204	2506.02	22.87	1.4	24.27	267.30	2
	518598	2592.99	23.01	1.4	24.41	276.06	2
	535998	2679.99	22.93	1.4	24.33	271.02	2
20M- 64QAM	501204	2506.02	22.97	1.4	24.37	273.53	2
	518598	2592.99	23.14	1.4	24.54	284.45	2
	535998	2679.99	22.96	1.4	24.36	272.90	2
20M- 256QAM	501204	2506.02	21.54	1.4	22.94	196.79	2
	518598	2592.99	21.53	1.4	22.93	196.34	2
	535998	2679.99	21.37	1.4	22.77	189.23	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	500700	2503.5	23.13	1.4	24.53	283.79	2
	518598	2592.99	23.12	1.4	24.52	283.14	2
	536496	2682.48	23.02	1.4	24.42	276.69	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	500202	2501.01	23.12	1.4	24.52	283.14	2
	518598	2592.99	23.15	1.4	24.55	285.10	2
	537000	2685	23.13	1.4	24.53	283.79	2



n66 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	344000	1720	22.67	0.4	23.07	202.77	1
	349000	1745	22.80	0.4	23.20	208.93	1
	354000	1770	22.85	0.4	23.25	211.35	1
20M-QPSK	344000	1720	22.79	0.4	23.19	208.45	1
	349000	1745	22.84	0.4	23.24	210.86	1
	354000	1770	22.96	0.4	23.36	216.77	1
20M- 16QAM	344000	1720	22.72	0.4	23.12	205.12	1
	349000	1745	22.66	0.4	23.06	202.30	1
	354000	1770	22.78	0.4	23.18	207.97	1
20M- 64QAM	344000	1720	21.45	0.4	21.85	153.11	1
	349000	1745	21.37	0.4	21.77	150.31	1
	354000	1770	21.45	0.4	21.85	153.11	1
20M- 256QAM	344000	1720	19.07	0.4	19.47	88.51	1
	349000	1745	19.17	0.4	19.57	90.57	1
	354000	1770	18.97	0.4	19.37	86.50	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	343500	1717.5	22.72	0.4	23.12	205.12	1
	349000	1745	22.60	0.4	23.00	199.53	1
	354500	1772.5	22.86	0.4	23.26	211.84	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	343000	1715	22.73	0.4	23.13	205.59	1
	349000	1745	22.80	0.4	23.20	208.93	1
	355000	1775	22.93	0.4	23.33	215.28	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
5M-QPSK	342500	1712.5	22.61	0.4	23.01	199.99	1
	349000	1745	22.76	0.4	23.16	207.01	1
	355500	1777.5	22.75	0.4	23.15	206.54	1



n71 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20M-Pi/2 BPSK	134600	673	23.06	-2.5	18.41	69.34	3
	136100	680.5	23.10	-2.5	18.45	69.98	3
	137600	688	23.08	-2.5	18.43	69.66	3
20M-QPSK	134600	673	23.05	-2.5	18.40	69.18	3
	136100	680.5	23.18	-2.5	18.53	71.29	3
	137600	688	23.09	-2.5	18.44	69.82	3
20M- 16QAM	134600	673	22.42	-2.5	17.77	59.84	3
	136100	680.5	22.51	-2.5	17.86	61.09	3
	137600	688	22.51	-2.5	17.86	61.09	3
20M- 64QAM	134600	673	20.94	-2.5	16.29	42.56	3
	136100	680.5	20.97	-2.5	16.32	42.85	3
	137600	688	20.87	-2.5	16.22	41.88	3
20M- 256QAM	134600	673	18.93	-2.5	14.28	26.79	3
	136100	680.5	18.77	-2.5	14.12	25.82	3
	137600	688	18.88	-2.5	14.23	26.49	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
15M-QPSK	134100	670.5	22.96	-2.5	18.31	67.76	3
	136100	680.5	22.99	-2.5	18.34	68.23	3
	138100	690.5	22.99	-2.5	18.34	68.23	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
10M-QPSK	133600	668	22.98	-2.5	18.33	68.08	3
	136100	680.5	23.07	-2.5	18.42	69.50	3
	138600	693	23.04	-2.5	18.39	69.02	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
5M-QPSK	133100	665.5	23.05	-2.5	18.40	69.18	3
	136100	680.5	23.08	-2.5	18.43	69.66	3
	139100	695.5	23.10	-2.5	18.45	69.98	3



Part27Q_n77 (SCS 30kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	630668	3460.02	23.11	2.4	25.51	355.63	1
	633332	3499.98	23.13	2.4	25.53	357.27	1
	636000	3540	23.00	2.4	25.40	346.74	1
20M-QPSK	630668	3460.02	23.14	2.4	25.54	358.10	1
	633332	3499.98	23.15	2.4	25.55	358.92	1
	636000	3540	23.02	2.4	25.42	348.34	1
20M- 16QAM	630668	3460.02	22.96	2.4	25.36	343.56	1
	633332	3499.98	23.12	2.4	25.52	356.45	1
	636000	3540	22.95	2.4	25.35	342.77	1
20M- 64QAM	630668	3460.02	23.03	2.4	25.43	349.14	1
	633332	3499.98	23.08	2.4	25.48	353.18	1
	636000	3540	22.98	2.4	25.38	345.14	1
20M- 256QAM	630668	3460.02	21.51	2.4	23.91	246.04	1
	633332	3499.98	21.59	2.4	23.99	250.61	1
	636000	3540	21.47	2.4	23.87	243.78	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	630500	3457.5	23.00	2.4	25.40	346.74	1
	633332	3499.98	23.14	2.4	25.54	358.10	1
	636166	3542.49	23.00	2.4	25.40	346.74	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	630334	3455.01	23.14	2.4	25.54	358.10	1
	633332	3499.98	23.06	2.4	25.46	351.56	1
	636332	3544.98	22.94	2.4	25.34	341.98	1



Part270_n77 (SCS 30kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	647334	3710.01	22.83	2.4	25.23	333.43	1
	656000	3840	23.03	2.4	25.43	349.14	1
	664666	3969.99	22.75	2.4	25.15	327.34	1
20M-QPSK	647334	3710.01	22.85	2.4	25.25	334.97	1
	656000	3840	23.06	2.4	25.46	351.56	1
	664666	3969.99	22.78	2.4	25.18	329.61	1
20M- 16QAM	647334	3710.01	22.76	2.4	25.16	328.10	1
	656000	3840	22.93	2.4	25.33	341.19	1
	664666	3969.99	22.79	2.4	25.19	330.37	1
20M- 64QAM	647334	3710.01	22.76	2.4	25.16	328.10	1
	656000	3840	23.01	2.4	25.41	347.54	1
	664666	3969.99	22.74	2.4	25.14	326.59	1
20M- 256QAM	647334	3710.01	21.42	2.4	23.82	240.99	1
	656000	3840	21.64	2.4	24.04	253.51	1
	664666	3969.99	21.45	2.4	23.85	242.66	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	647168	3707.52	22.73	2.4	25.13	325.84	1
	656000	3840	22.97	2.4	25.37	344.35	1
	664832	3972.48	22.64	2.4	25.04	319.15	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	647000	3705	22.84	2.4	25.24	334.20	1
	656000	3840	23.03	2.4	25.43	349.14	1
	665000	3975	22.65	2.4	25.05	319.89	1



Part27Q_n78 (SCS 30kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-Pi/2 BPSK	630668	3460.02	23.09	2.4	25.49	354.00	1
	633332	3499.98	23.12	2.4	25.52	356.45	1
	636000	3540	23.00	2.4	25.40	346.74	1
20M-QPSK	630668	3460.02	23.12	2.4	25.52	356.45	1
	633332	3499.98	23.14	2.4	25.54	358.10	1
	636000	3540	23.03	2.4	25.43	349.14	1
20M- 16QAM	630668	3460.02	22.99	2.4	25.39	345.94	1
	633332	3499.98	23.06	2.4	25.46	351.56	1
	636000	3540	22.90	2.4	25.30	338.84	1
20M- 64QAM	630668	3460.02	23.10	2.4	25.50	354.81	1
	633332	3499.98	23.04	2.4	25.44	349.95	1
	636000	3540	22.83	2.4	25.23	333.43	1
20M- 256QAM	630668	3460.02	21.52	2.4	23.92	246.60	1
	633332	3499.98	21.55	2.4	23.95	248.31	1
	636000	3540	21.50	2.4	23.90	245.47	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	630500	3457.5	23.06	2.4	25.46	351.56	1
	633332	3499.98	23.11	2.4	25.51	355.63	1
	636166	3542.49	22.89	2.4	25.29	338.06	1
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	630334	3455.01	23.03	2.4	25.43	349.14	1
	633332	3499.98	23.09	2.4	25.49	354.00	1
	636332	3544.98	22.98	2.4	25.38	345.14	1

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

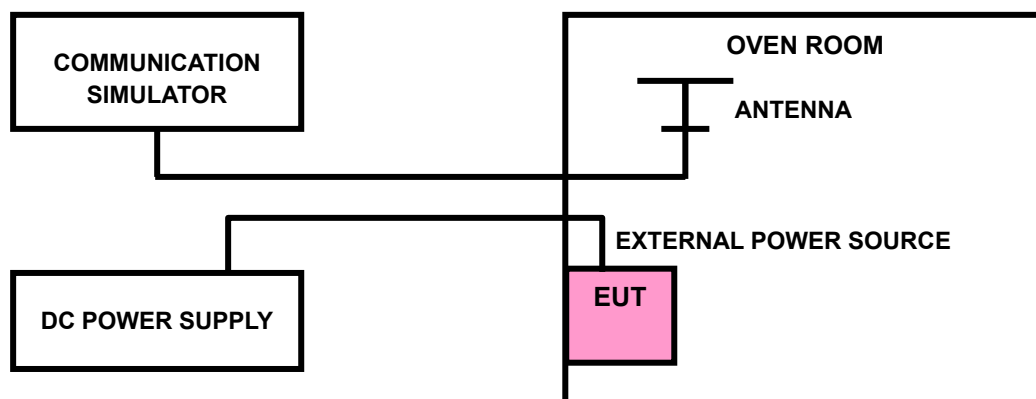
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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





BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

3.2.4 TEST RESULTS

Please Refer to Appendix A Of this test report.

Note: VL = Low voltage(4.75V); VN/NV = Normal voltage(5V); VH = High voltage(5.25V);
NT = Normal temperature (25°C)

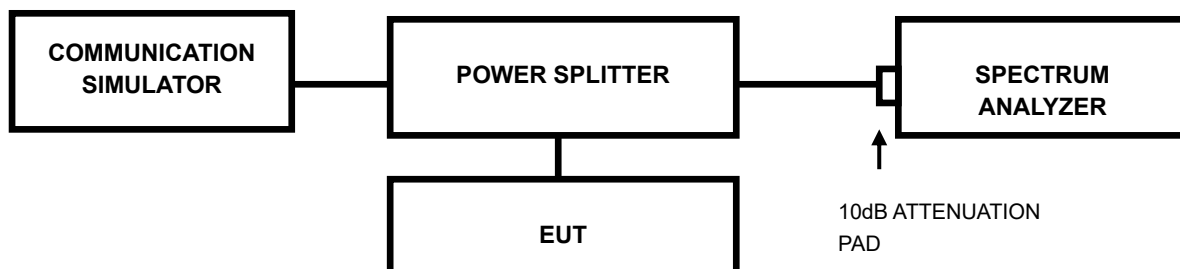


3.3 OCCUPIED BANDWIDTH MEASUREMENT

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.



BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

3.3.4 TEST RESULTS

Please Refer to Appendix A Of this test report.



3.4 BAND EDGE MEASUREMENT

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. (n2/n5/n25/n66)

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. (n12/n71)

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. (n41)

According to FCC 27.53(a)(4) specified that For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (n30)

(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

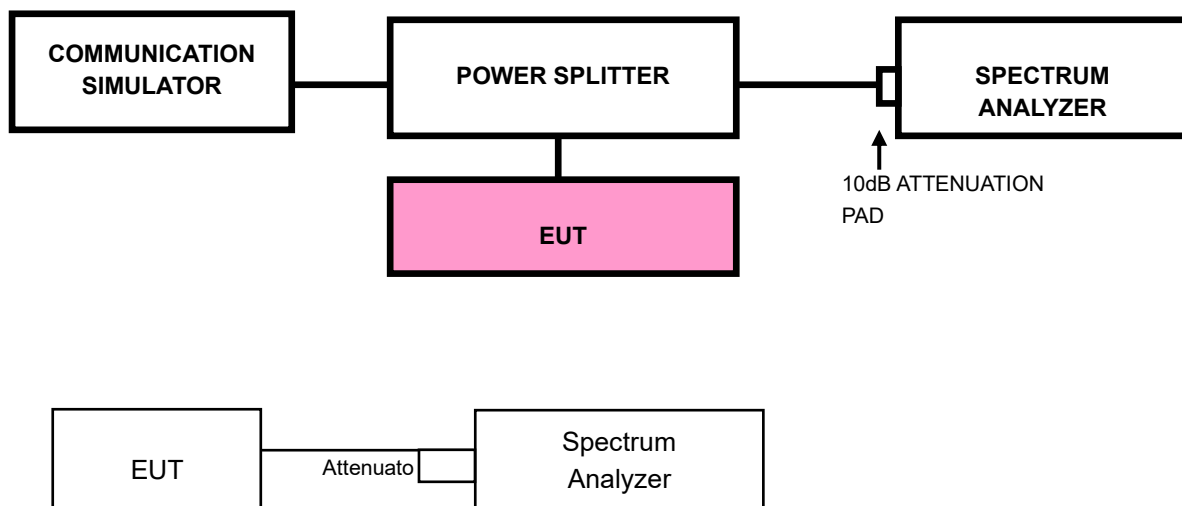
(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

According to FCC 27.53(l)(2) specified that For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.(n77/n78)

According to FCC 27.53(n)(2) specified that For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

3.4.2 TEST SETUP





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 A Of this test report.



3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -13dBm.

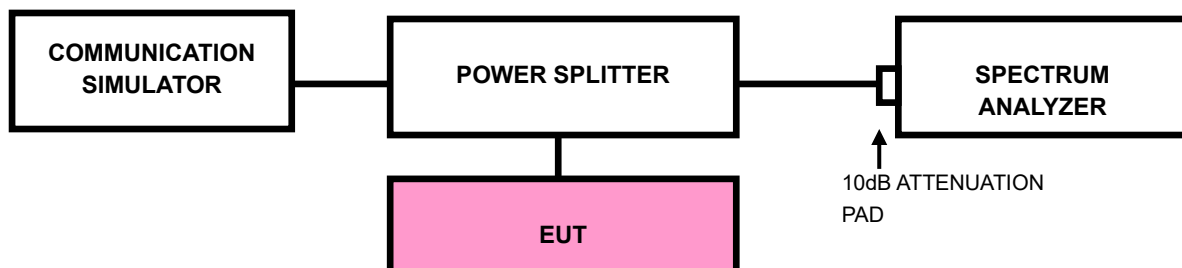
For 5G NR n41:

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





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 A Of this test report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -13dBm.

For 5G NR n41:

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. EIRP = Output power level of S.G – TX cable loss + 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,
 $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}$.

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

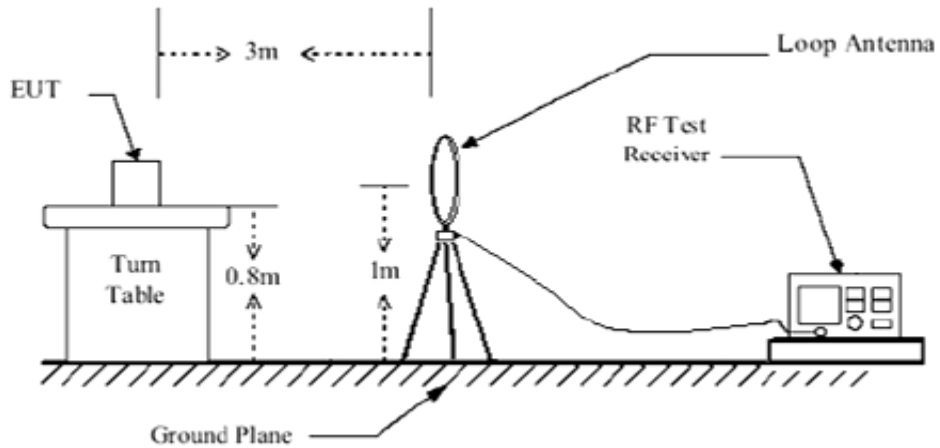
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

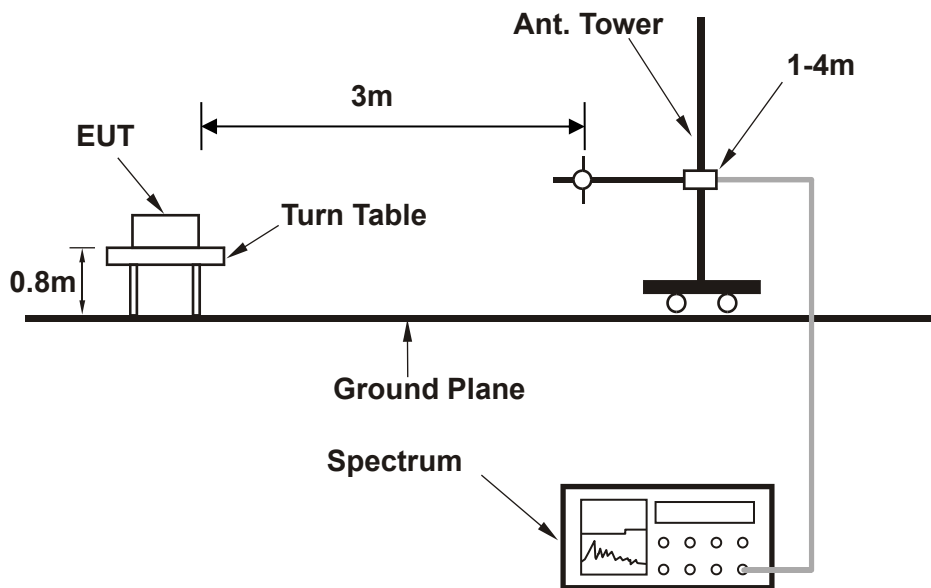


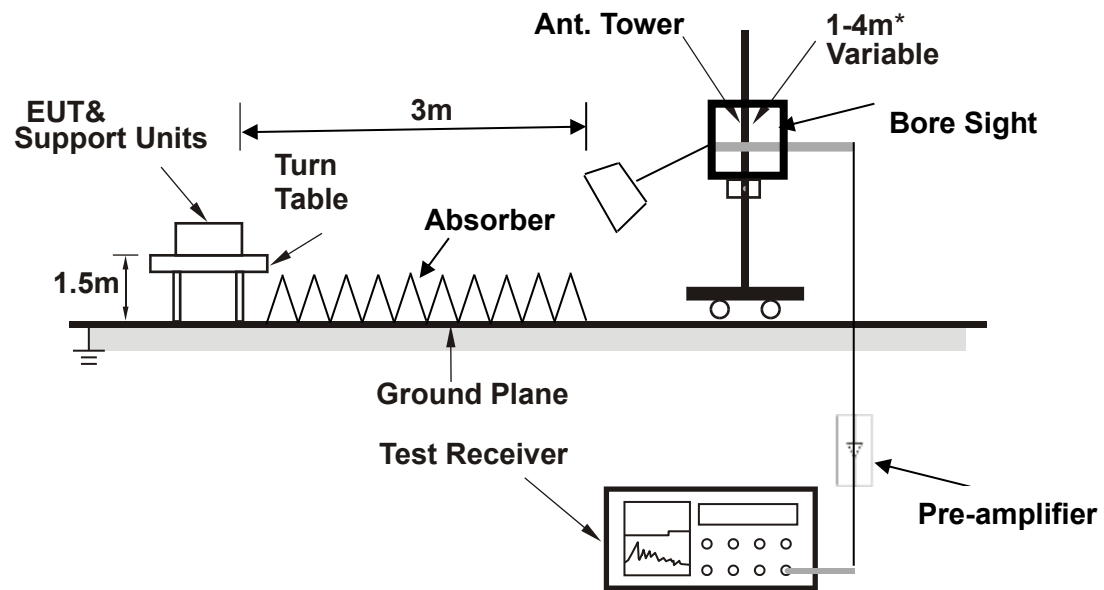
3.6.4 TEST SETUP

< 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.

5G SA BELOW 1GHz WORST-CASE DATA

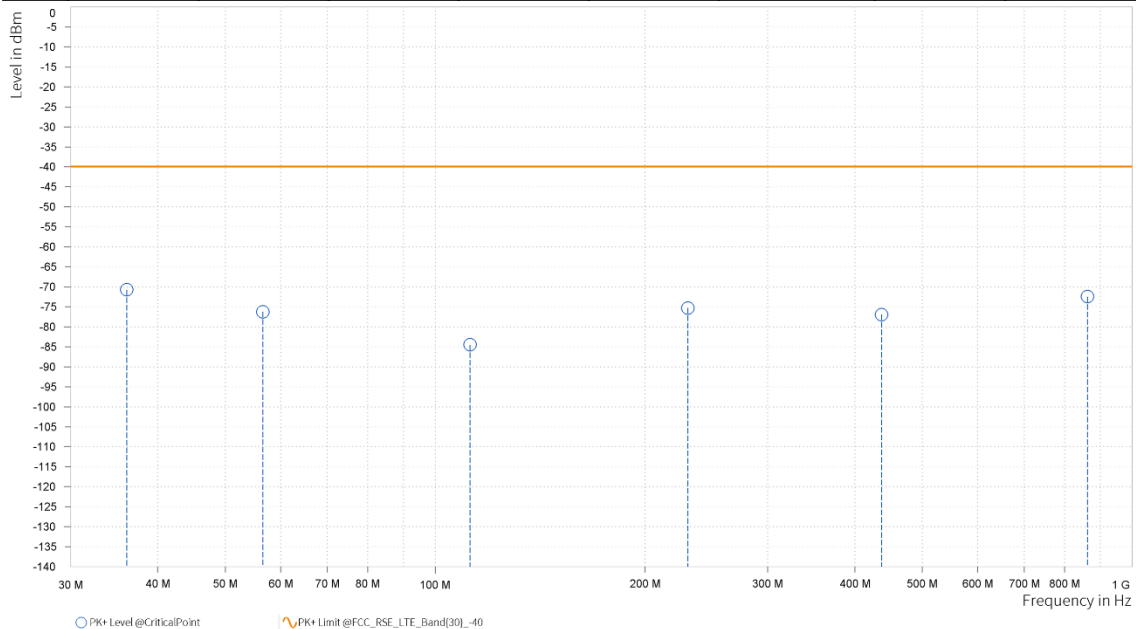
30 MHz – 1GHz data:

N30

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 462000	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

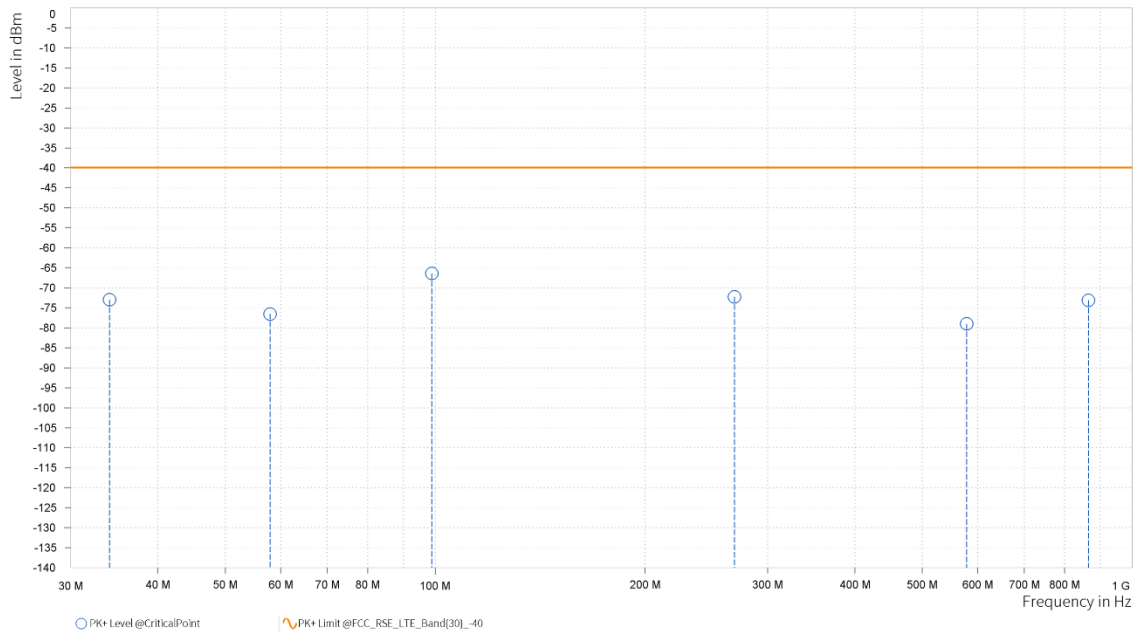
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	36.100	-70.73	-40.00	30.73	-1.19	H	124.1	2.00
1	56.600	-76.25	-40.00	36.25	-5.30	H	124.1	2.00
1	112.200	-84.49	-40.00	44.49	-10.95	H	359	2.00
1	230.500	-75.28	-40.00	35.28	1.14	H	234.8	1.00
1	436.950	-76.95	-40.00	36.95	2.19	H	234.8	1.00
2	862.317	-72.46	-40.00	32.46	5.63	H	343.8	1.00





MODE	TX channel 462000	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	34.100	-72.99	-40.00	32.99	-10.16	V	230	1.00
1	57.950	-76.53	-40.00	36.53	-4.18	V	108.5	2.00
1	98.950	-66.42	-40.00	26.42	5.05	V	1	1.00
1	268.850	-72.24	-40.00	32.24	-3.41	V	215	2.00
2	578.838	-79.01	-40.00	39.01	-1.16	V	91.8	2.00
2	865.067	-73.09	-40.00	33.09	5.02	V	308.1	2.00





BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

ABOVE 1GHz

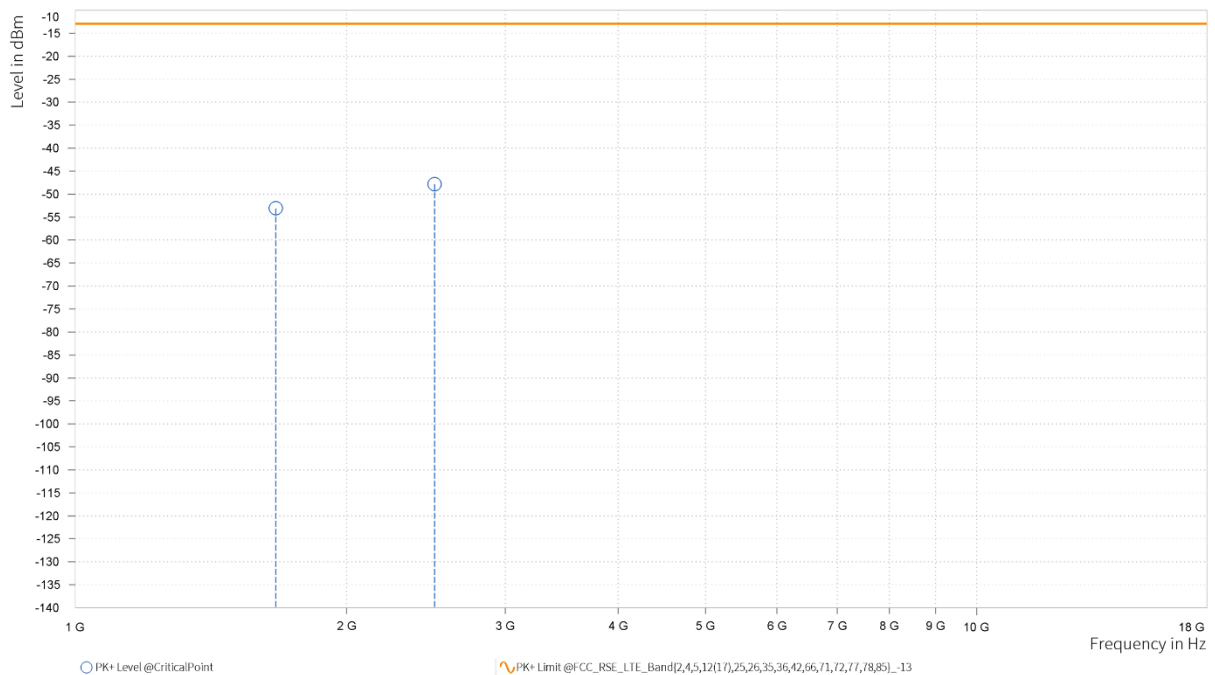
Note: For higher frequency, the emission is too low to be detected.

N5

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 167300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

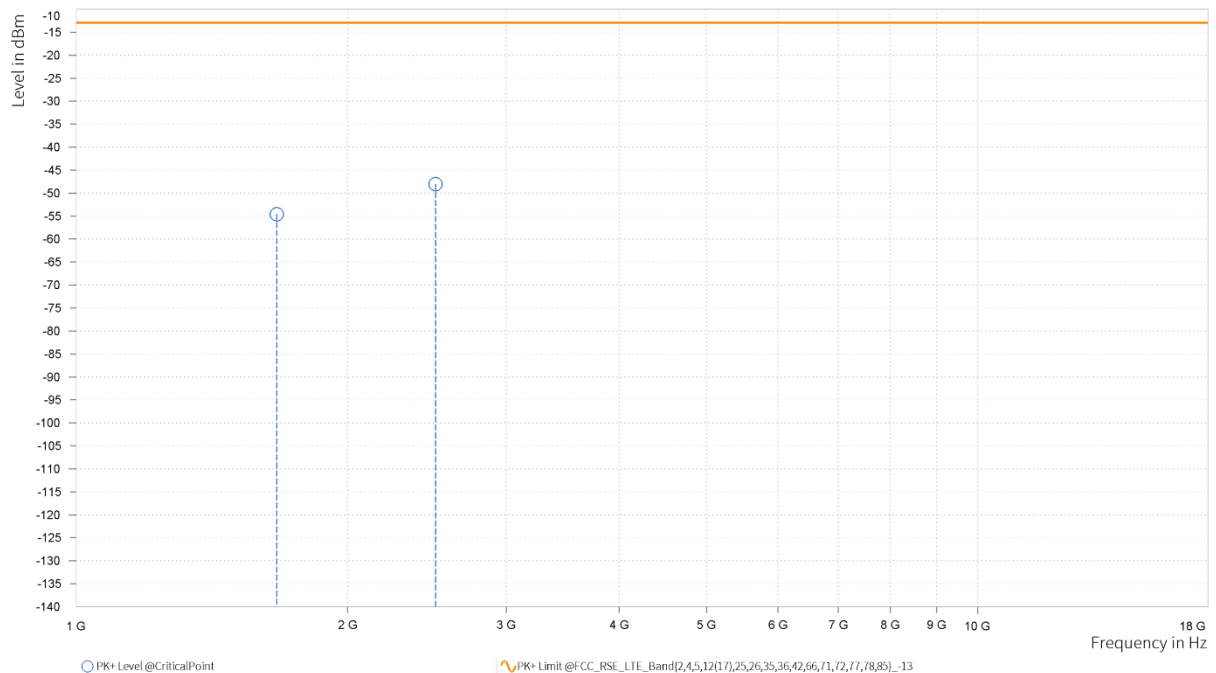
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,668.500	-53.08	-13.00	40.08	15.40	H	291.4	1.00
3	2,502.750	-47.85	-13.00	34.85	20.64	H	355.9	1.00





MODE	TX channel 167300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,668.500	-54.58	-13.00	41.58	14.29	V	359.1	1.00
3	2,502.750	-48.02	-13.00	35.02	21.08	V	241.2	1.00





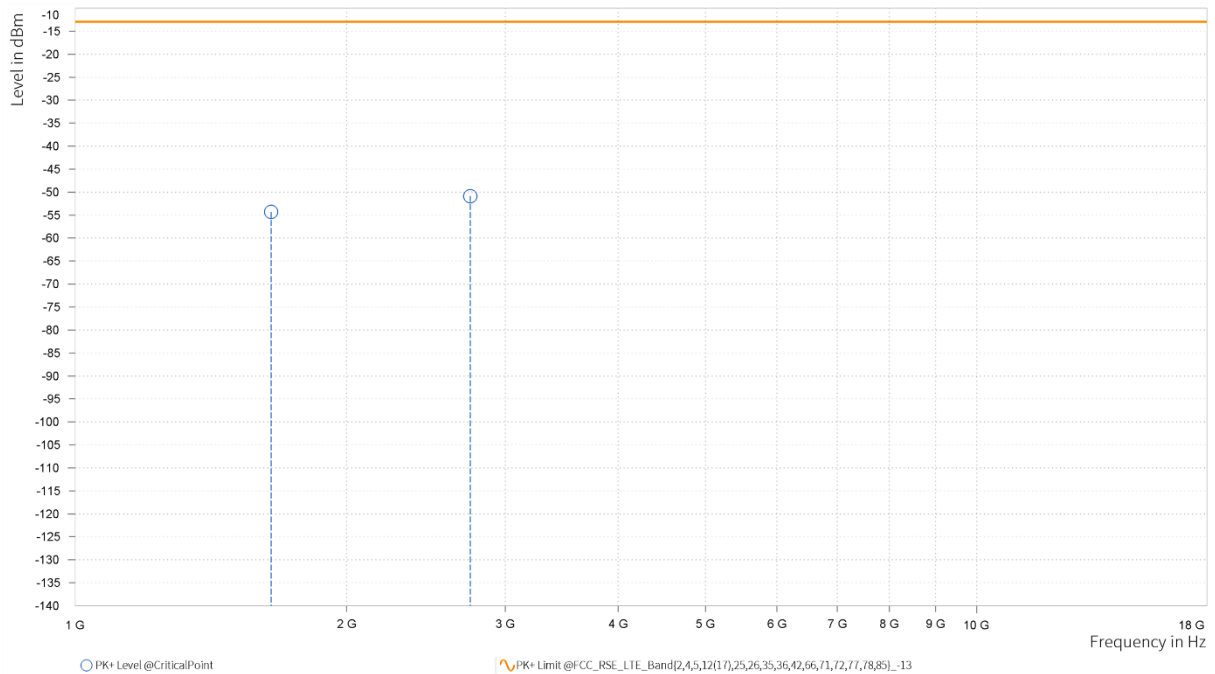
BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

CHANNEL BANDWIDTH: 10MHz / QPSK

CH 165800

MODE	TX channel 165800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

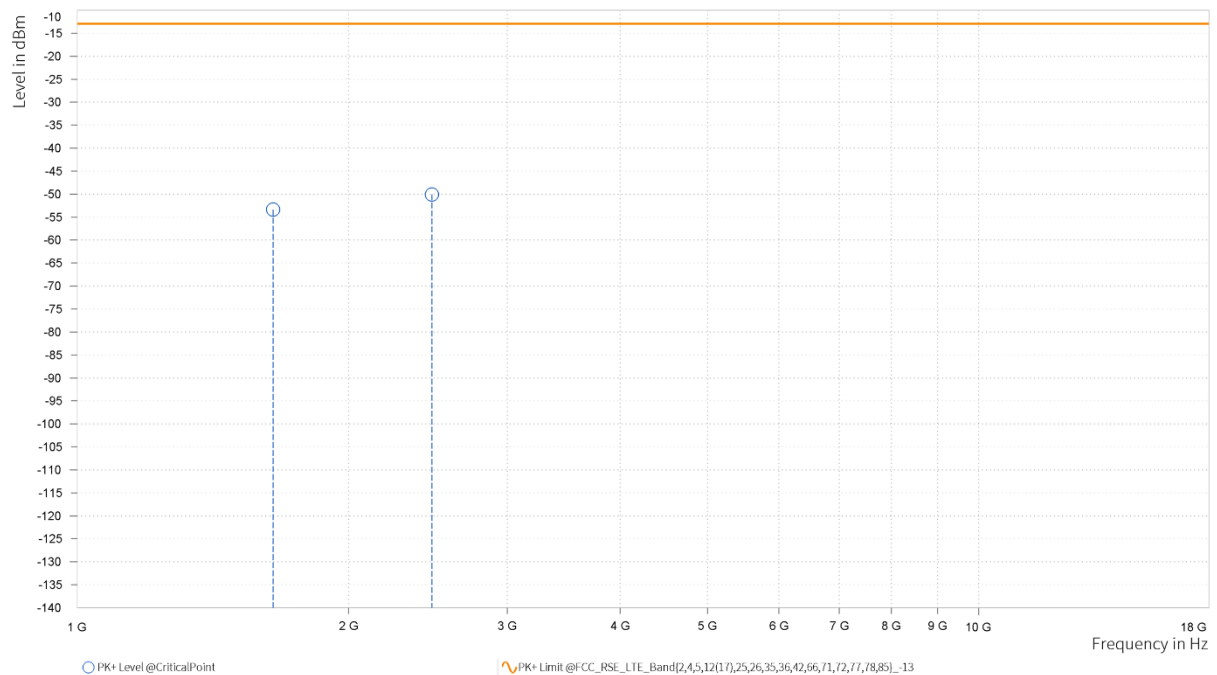
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,649.000	-54.30	-13.00	41.30	14.82	H	178.2	1.00
3	2,743.500	-50.88	-13.00	37.88	20.59	H	304.9	1.00





MODE	TX channel 165800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

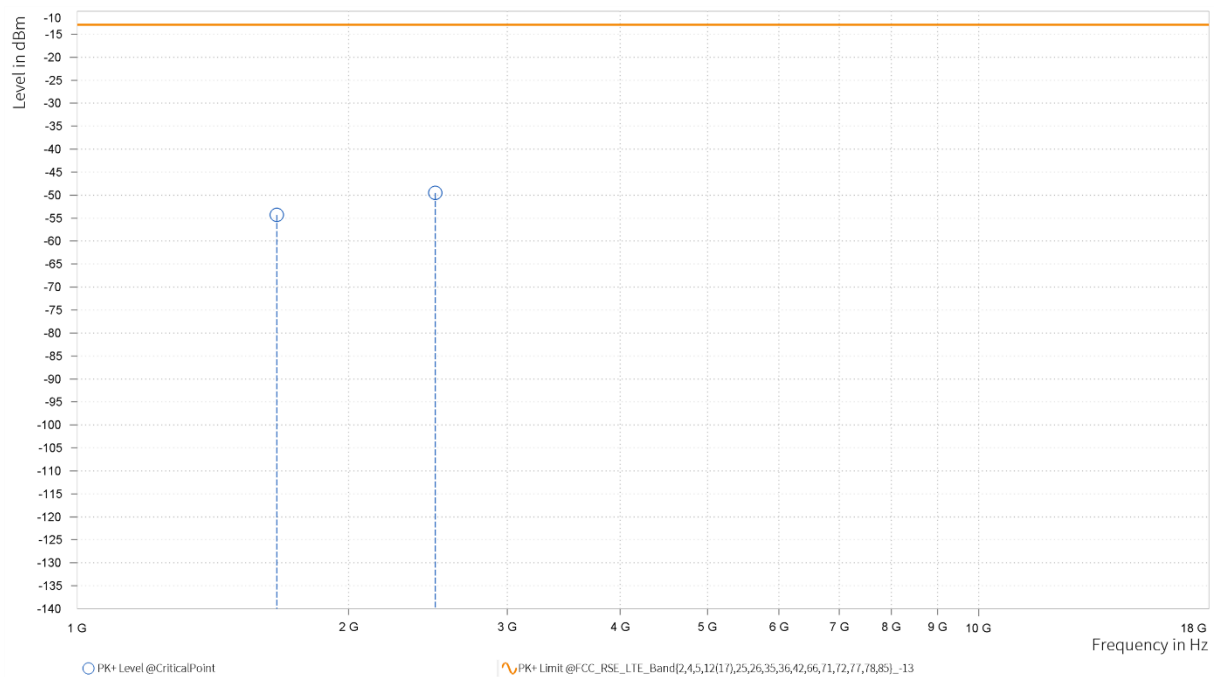
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,649.000	-53.37	-13.00	40.37	14.37	V	183.1	2.00
3	2,473.500	-50.07	-13.00	37.07	20.55	V	62.9	1.00





MODE	TX channel 167300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.000	-54.33	-13.00	41.33	15.32	H	49.4	1.00
3	2,496.000	-49.52	-13.00	36.52	20.76	H	359	2.00

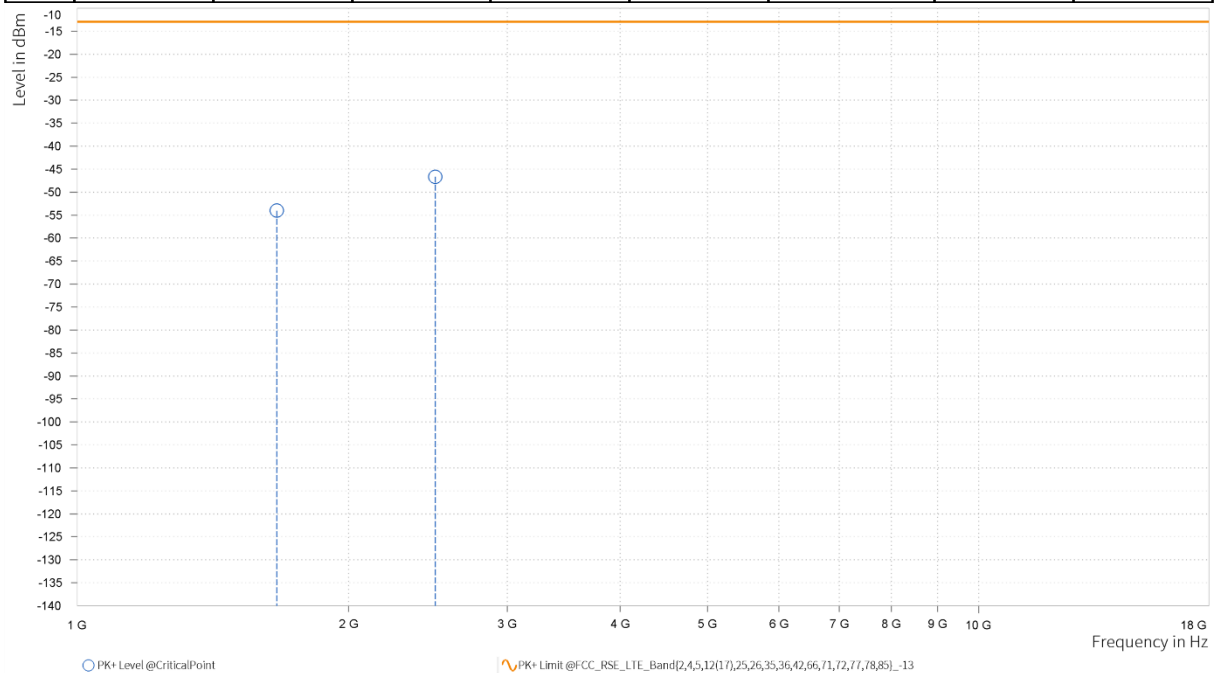




BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

MODE	TX channel 167300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

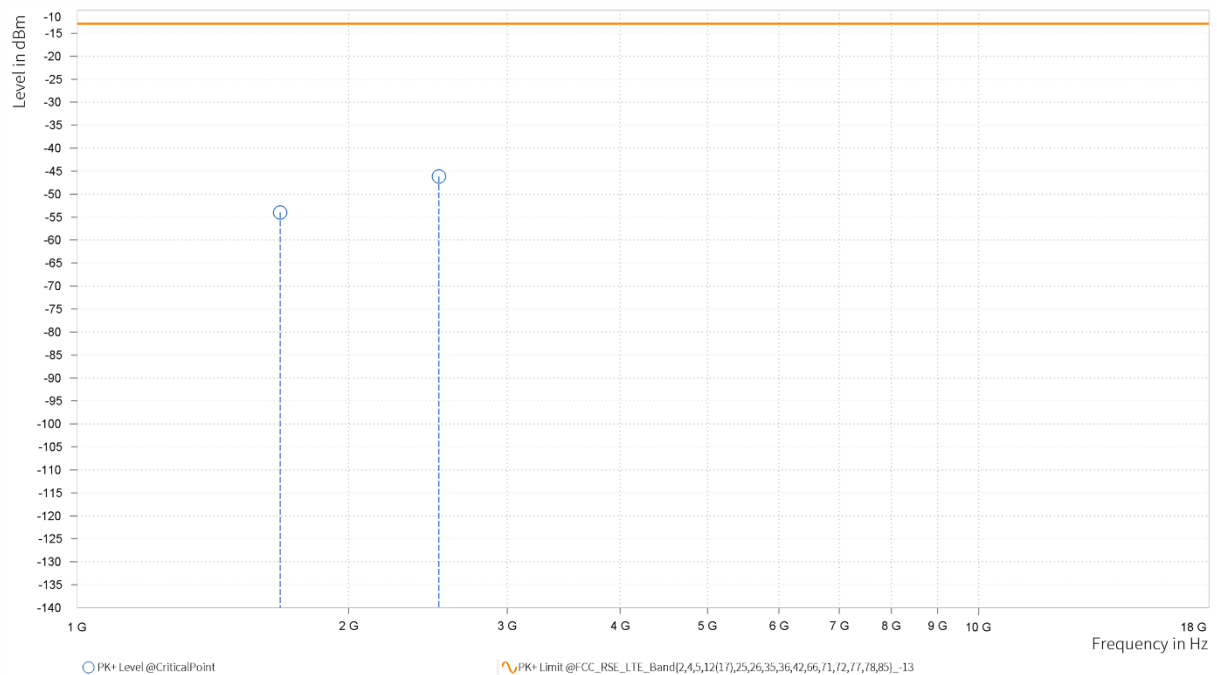
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.000	-54.03	-13.00	41.03	14.20	V	71.4	2.00
3	2,496.000	-46.66	-13.00	33.66	21.03	V	119.4	2.00





MODE	TX channel 166800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

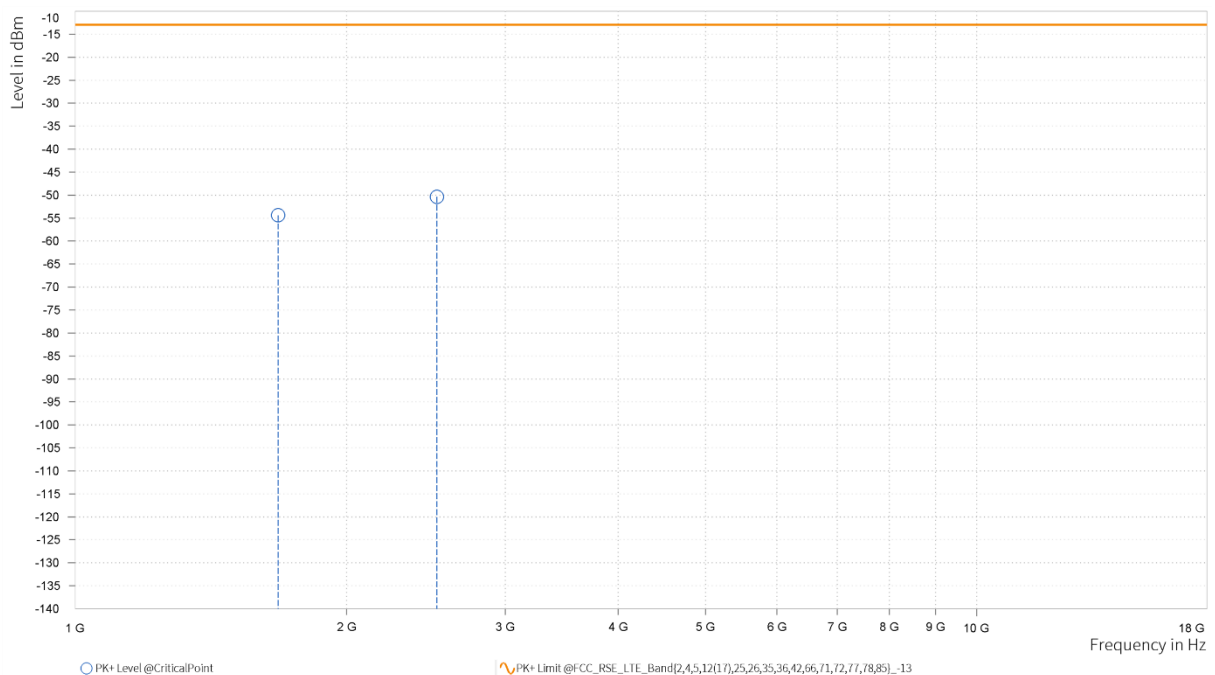
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,679.000	-53.99	-13.00	40.99	15.64	H	59.4	2.00
3	2,518.000	-46.14	-13.00	33.14	20.30	H	1	1.00





MODE	TX channel 166800	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,679.000	-54.41	-13.00	41.41	14.56	V	25.4	2.00
3	2,518.500	-50.34	-13.00	37.34	21.13	V	64.3	1.00



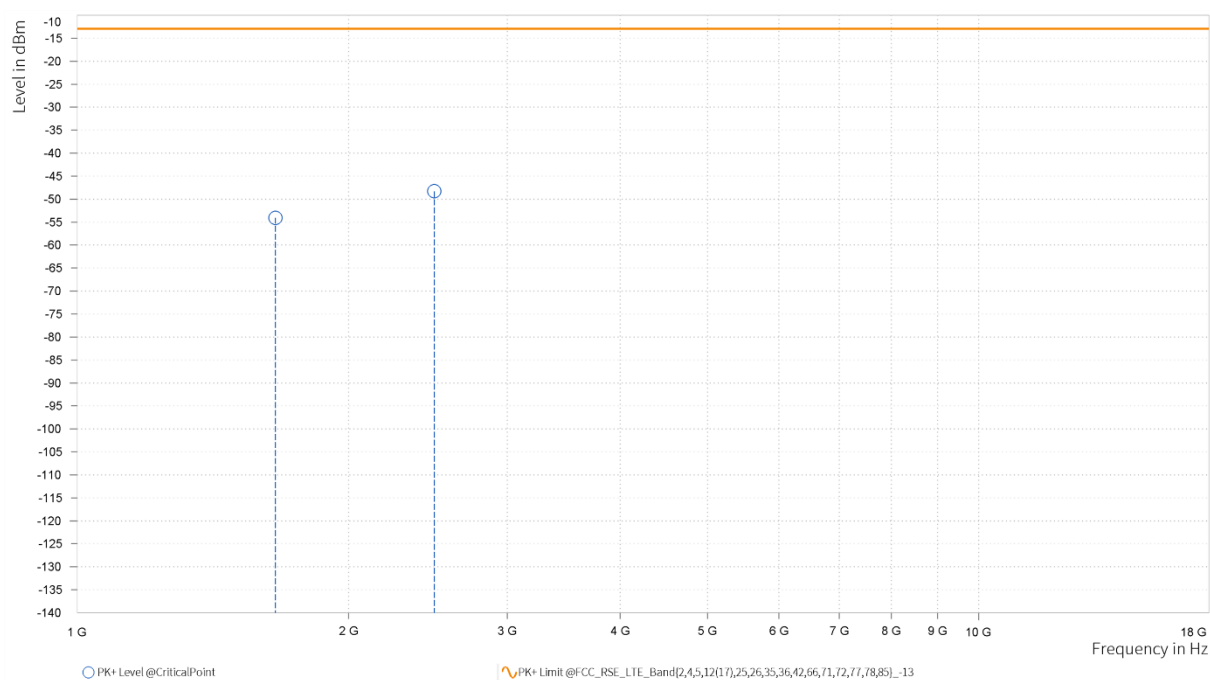


BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 167300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

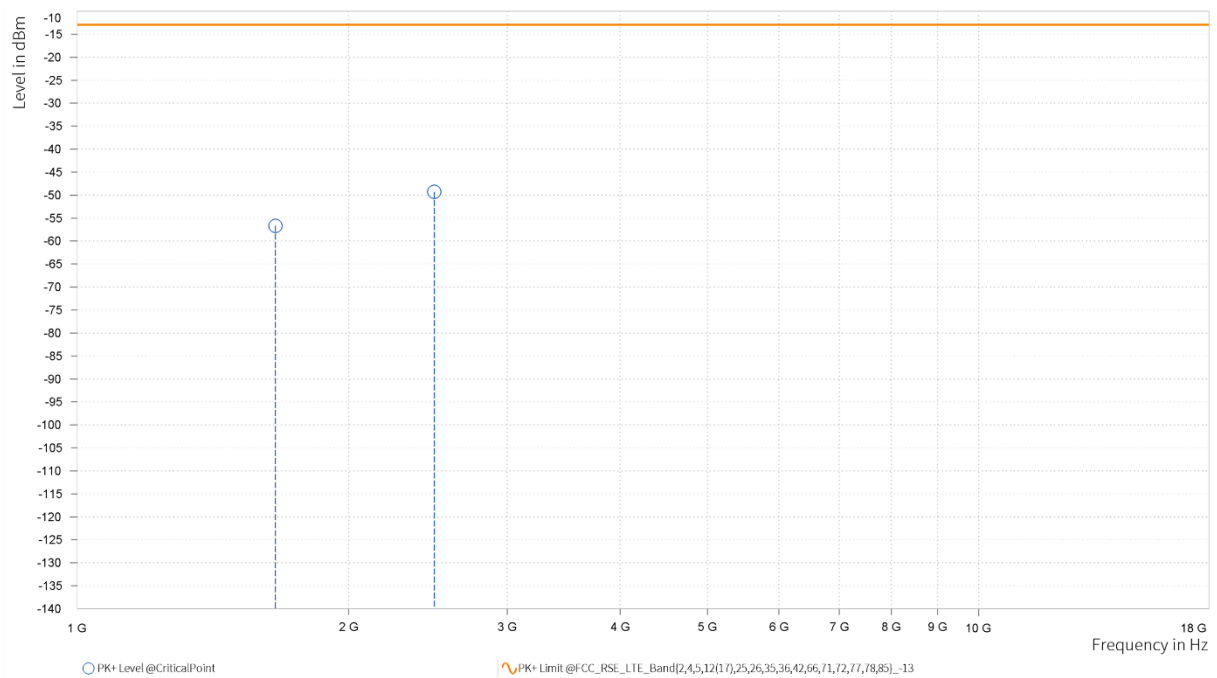
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,659.500	-54.06	-13.00	41.06	15.24	H	177.5	1.00
3	2,489.250	-48.28	-13.00	35.28	20.68	H	0.9	2.00





MODE	TX channel 167300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,659.500	-56.68	-13.00	43.68	14.12	V	0.9	2.00
3	2,489.250	-49.31	-13.00	36.31	20.91	V	187.4	1.00



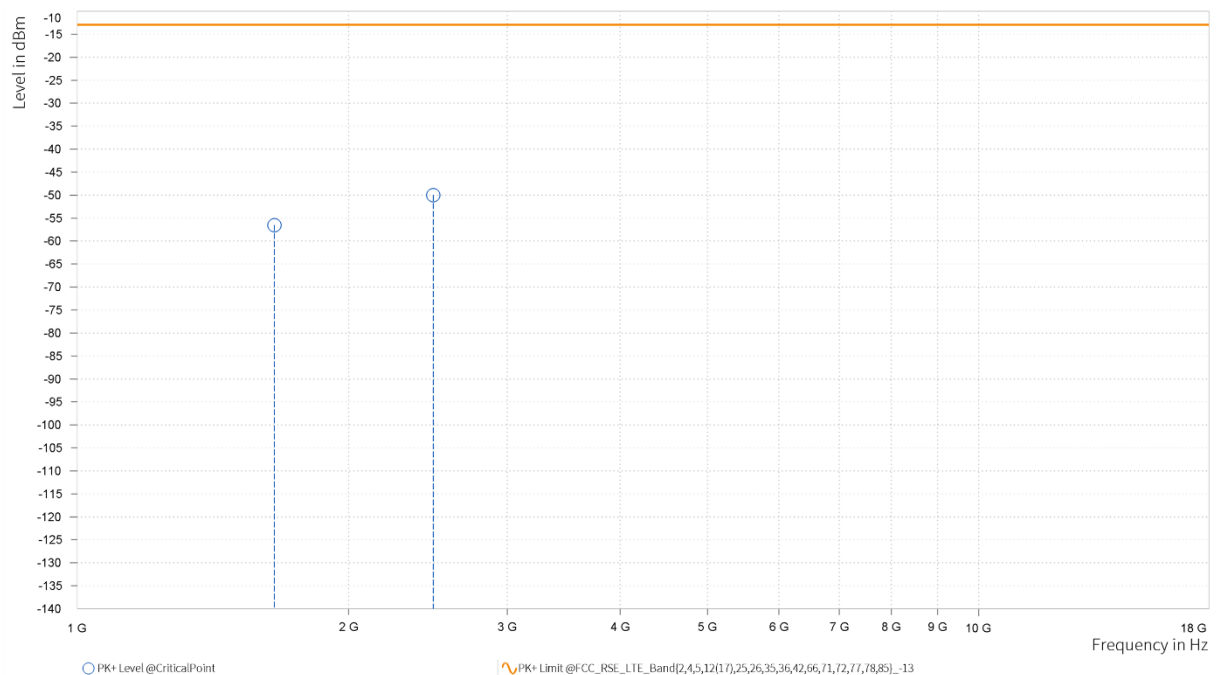


BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 167300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

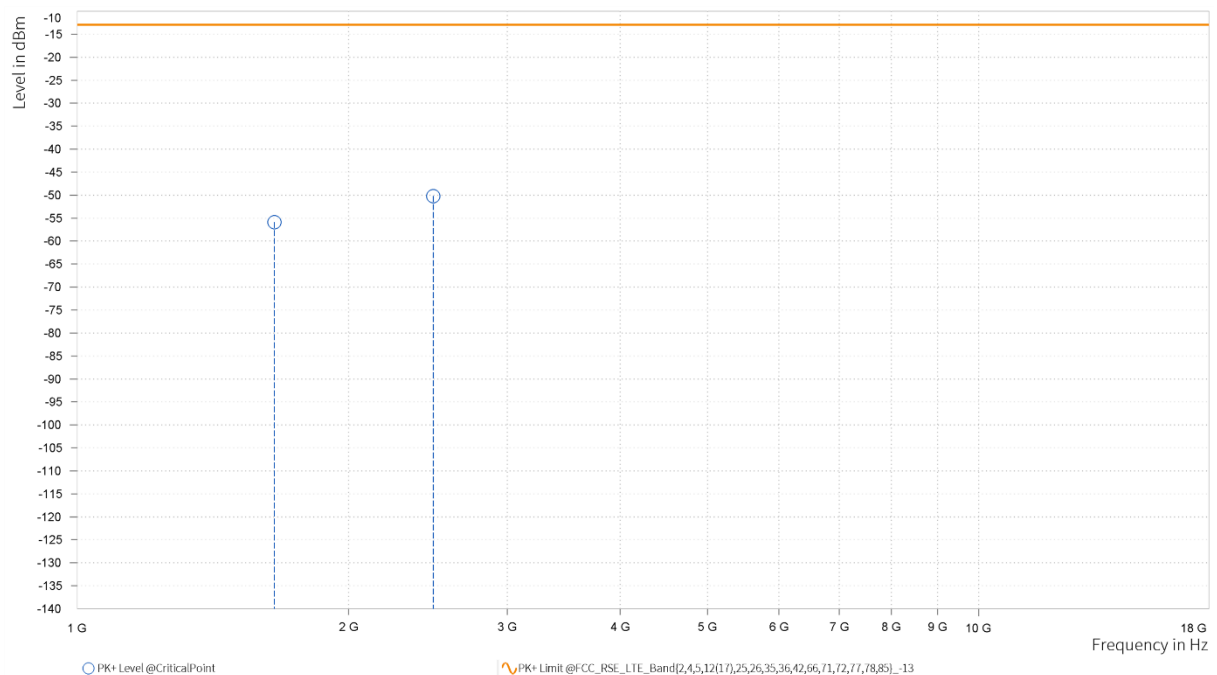
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,655.000	-56.52	-13.00	43.52	15.06	H	34.6	1.00
3	2,482.500	-49.99	-13.00	36.99	20.52	H	115.2	2.00





MODE	TX channel 167300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,655.000	-55.89	-13.00	42.89	14.23	V	7.1	2.00
3	2,482.500	-50.21	-13.00	37.21	20.76	V	303.4	1.00





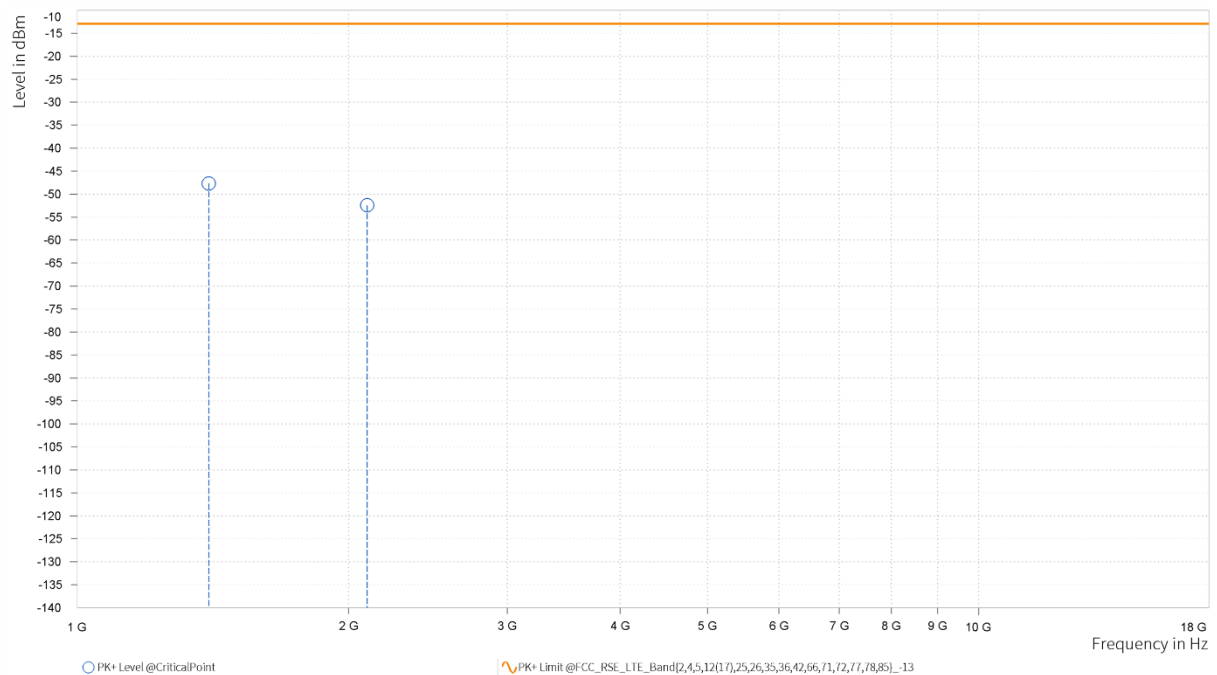
N12

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 140300

MODE	TX channel 140300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,398.500	-47.67	-13.00	34.67	13.25	H	1	1.00
2	2,097.750	-52.42	-13.00	39.42	18.45	H	116.7	2.00

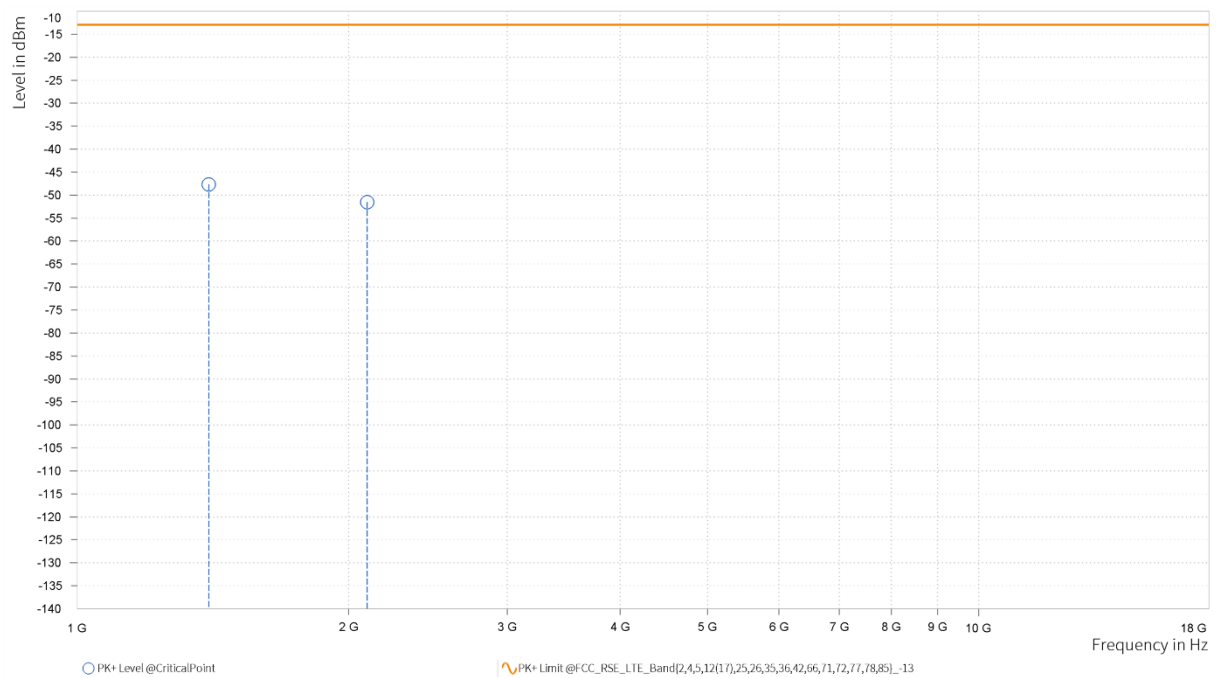




BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

REMARKS			
MODE	TX channel 140300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,398.500	-47.67	-13.00	34.67	13.68	V	180.4	2.00
2	2,097.750	-51.53	-13.00	38.53	19.48	V	1	1.00

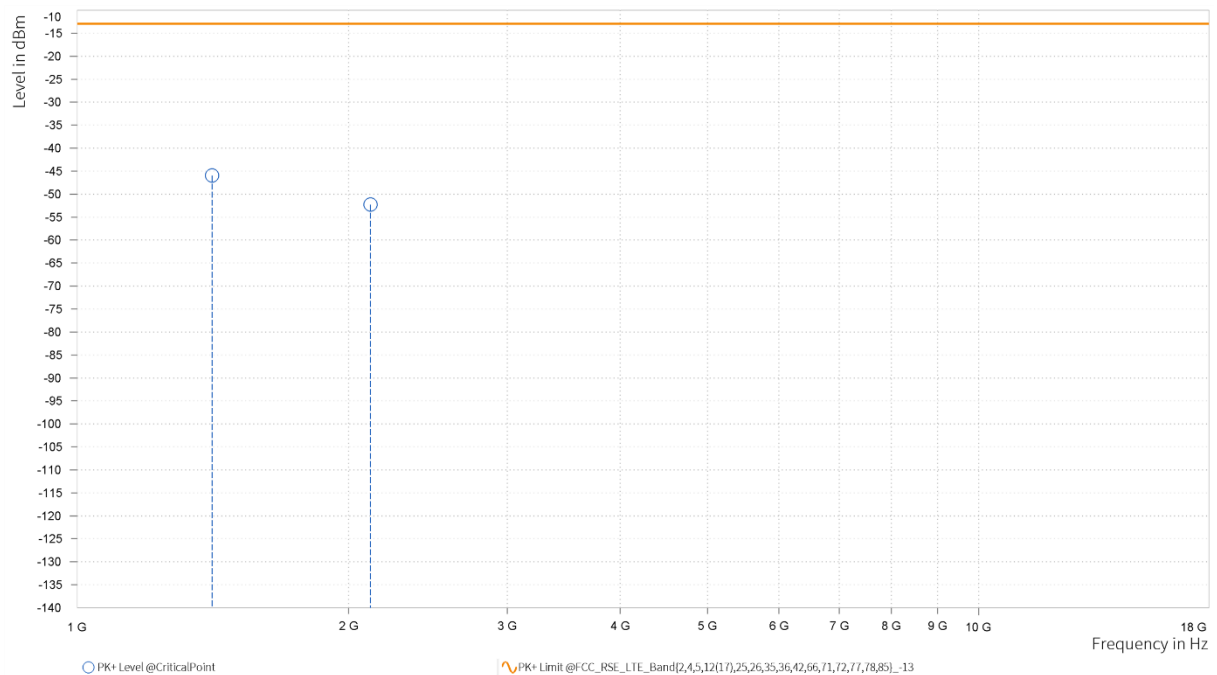




BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06
CH141500

MODE	TX channel 141500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

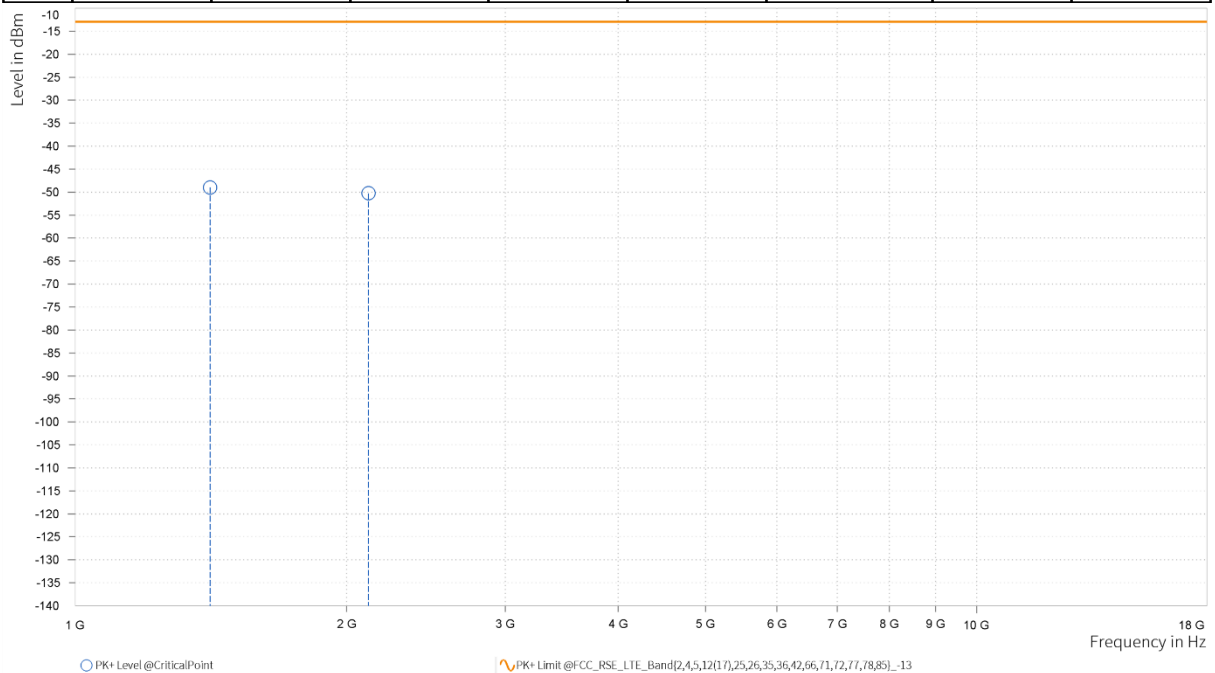
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,410.500	-45.98	-13.00	32.98	13.71	H	179.7	1.00
2	2,115.750	-52.30	-13.00	39.30	18.99	H	359	2.00





MODE	TX channel 141500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

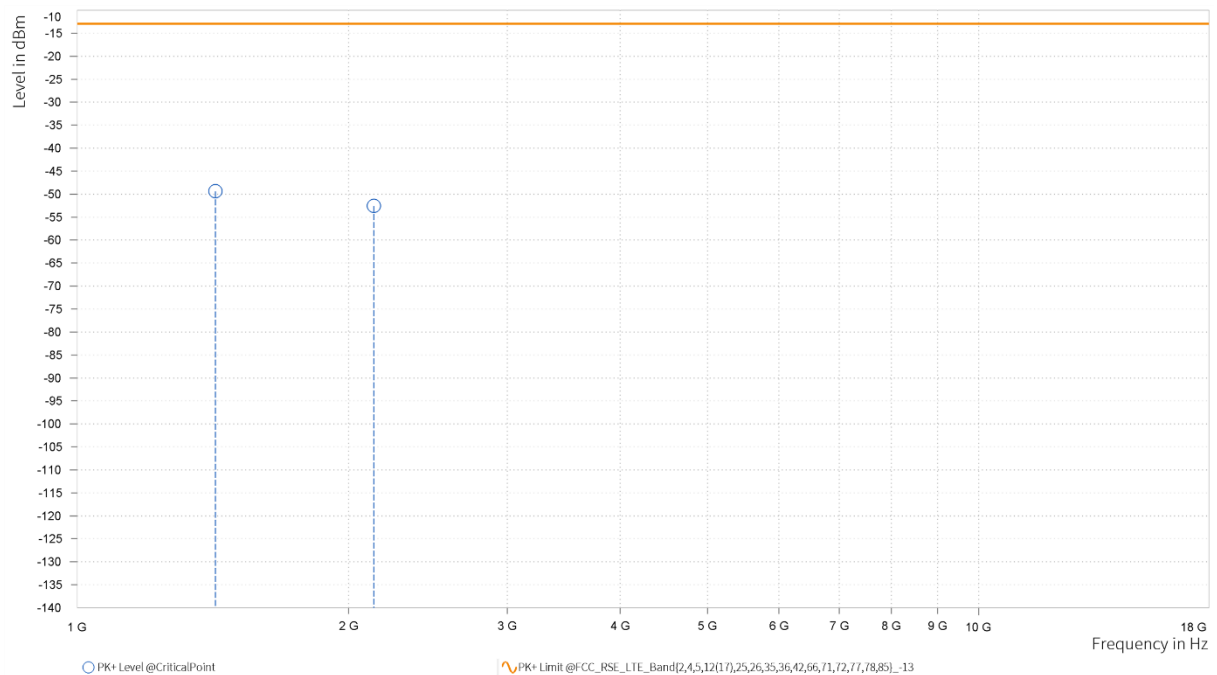
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,410.500	-49.00	-13.00	36.00	13.53	V	0.9	2.00
2	2,115.750	-50.26	-13.00	37.26	19.63	V	357	1.00





MODE	TX channel 142700	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

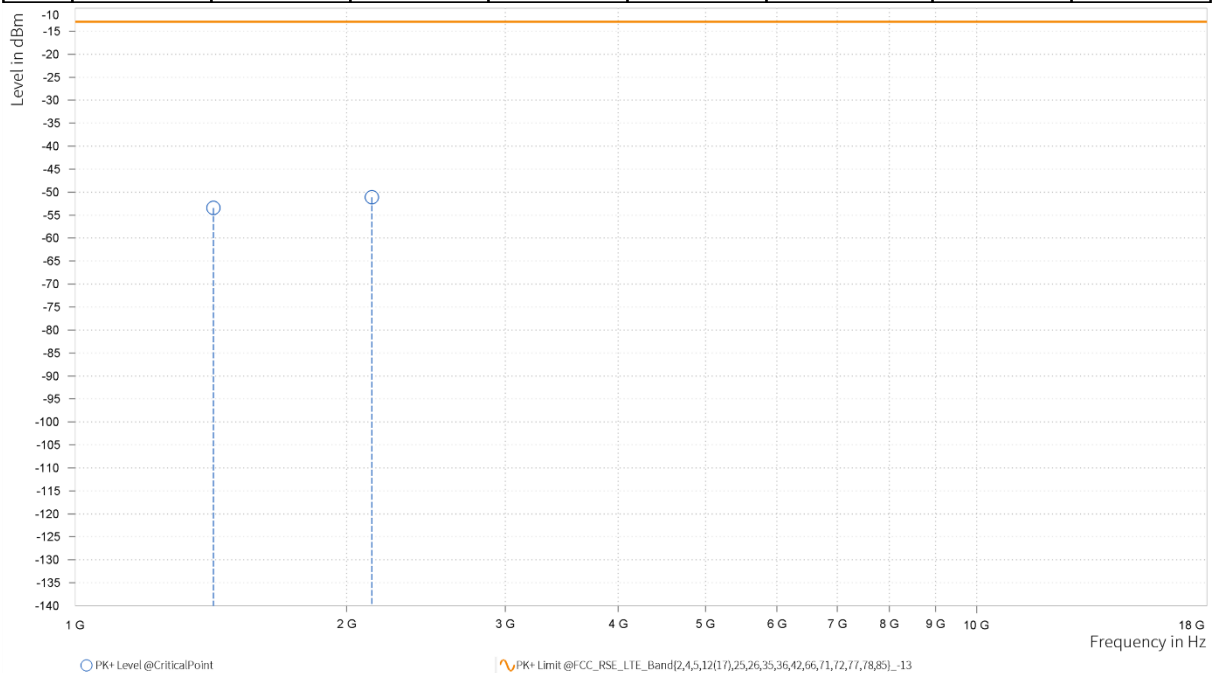
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,422.500	-49.38	-13.00	36.38	13.81	H	180.3	1.00
2	2,133.750	-52.57	-13.00	39.57	19.16	H	325.4	2.00





MODE	TX channel 142700	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,422.500	-53.46	-13.00	40.46	13.26	V	179.7	1.00
2	2,133.750	-51.11	-13.00	38.11	19.34	V	179.7	1.00



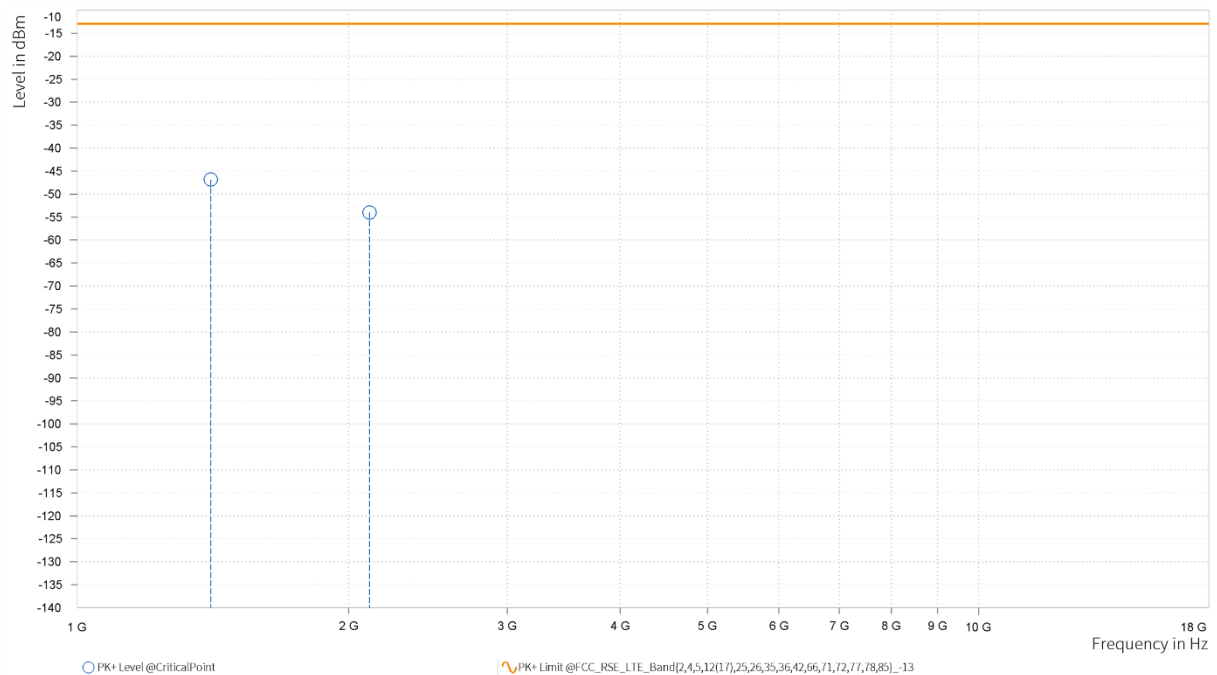


BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 141500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,406.000	-46.85	-13.00	33.85	13.52	H	178.9	1.00
2	2,109.000	-53.98	-13.00	40.98	18.95	H	359	2.00

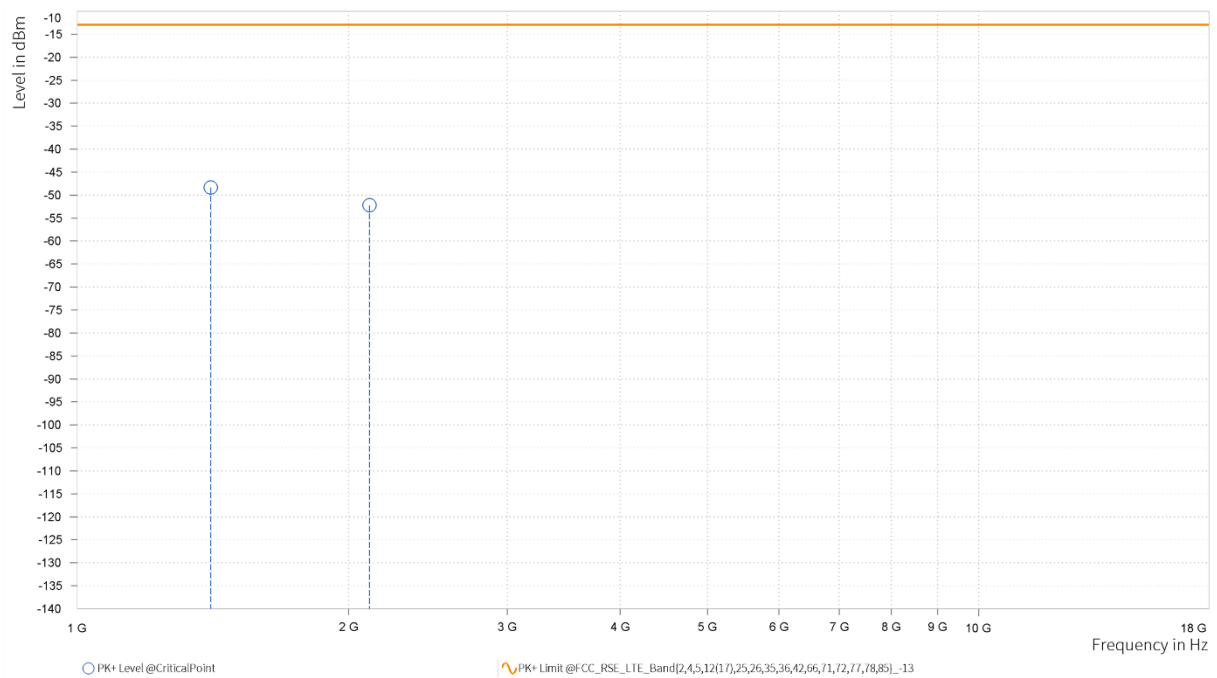




BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

MODE	TX channel 141500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,406.000	-48.35	-13.00	35.35	13.64	V	1	1.00
2	2,109.000	-52.20	-13.00	39.20	19.65	V	180.3	1.00



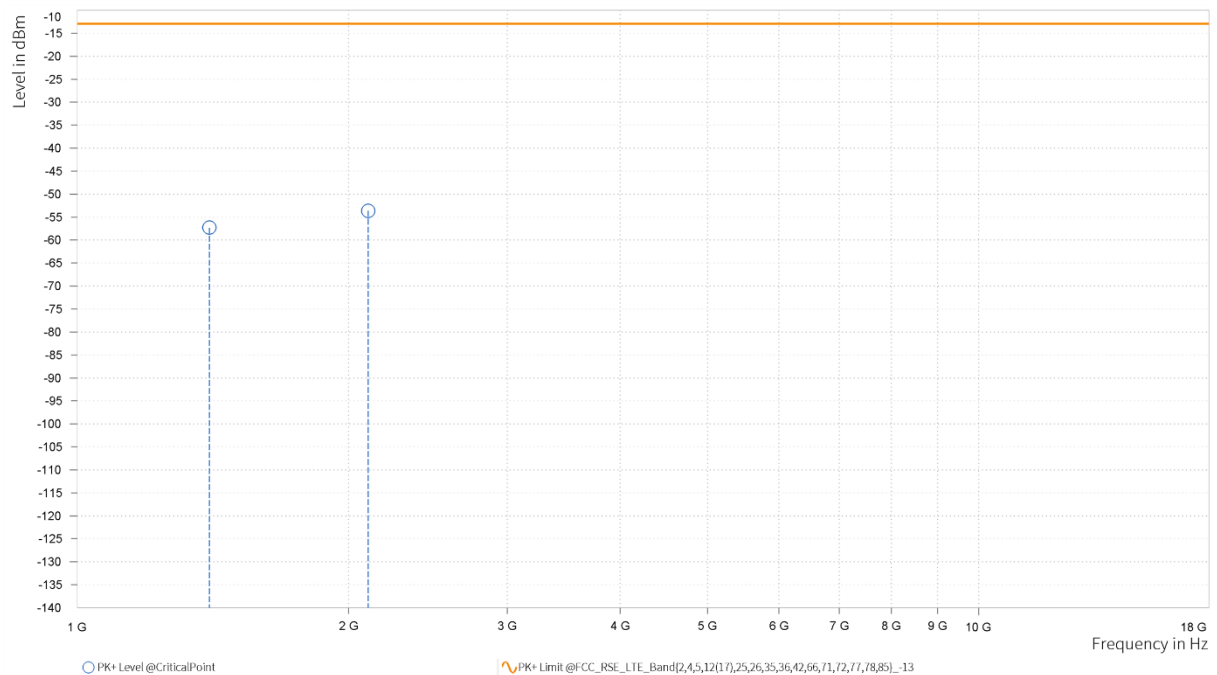


BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 141500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

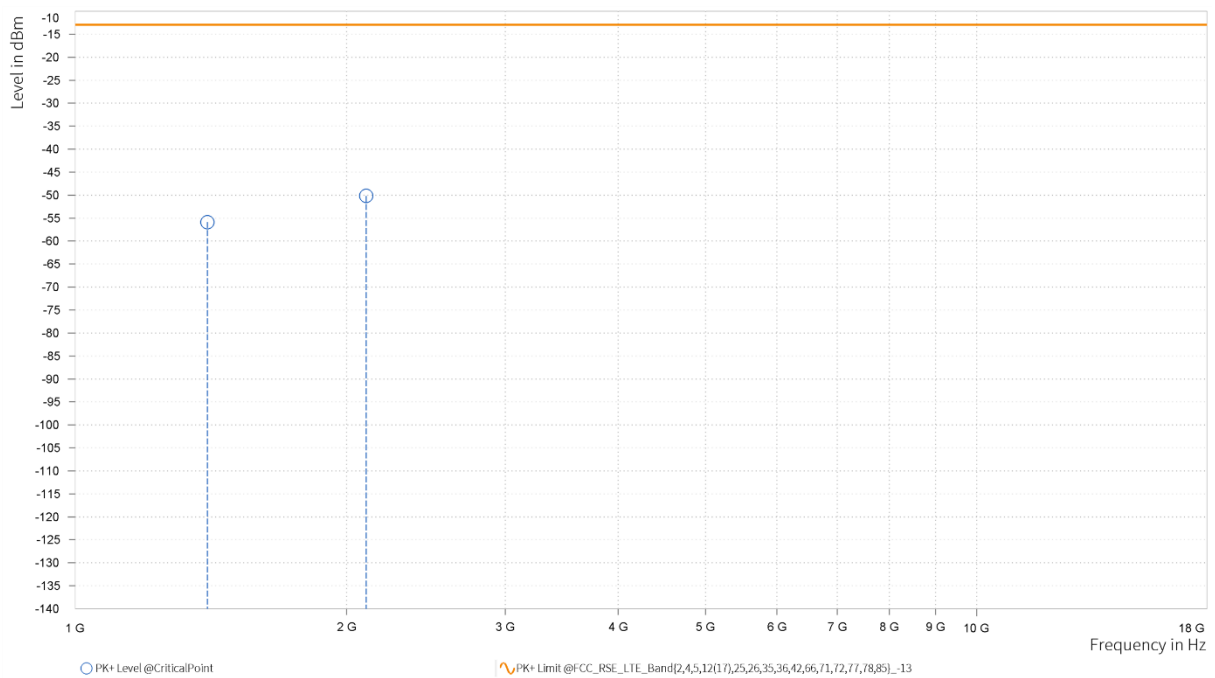
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,401.500	-57.28	-13.00	44.28	13.32	H	244	1.00
2	2,102.250	-53.64	-13.00	40.64	18.71	H	326.2	2.00





MODE	TX channel 141500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,401.500	-55.88	-13.00	42.88	13.74	V	359	2.00
2	2,102.250	-50.17	-13.00	37.17	19.59	V	2.3	2.00



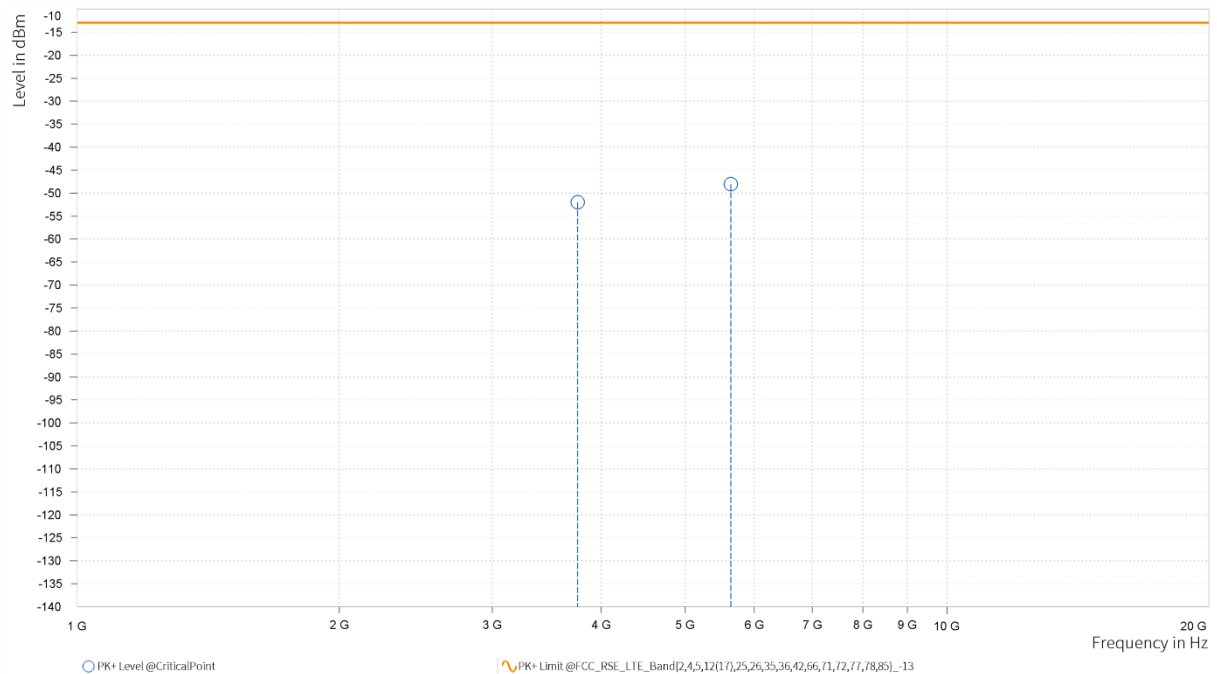


N25

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 376500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,760.500	-52.01	-13.00	39.01	21.65	H	359.1	1.00
4	5,640.750	-48.09	-13.00	35.09	24.79	H	359.1	1.00

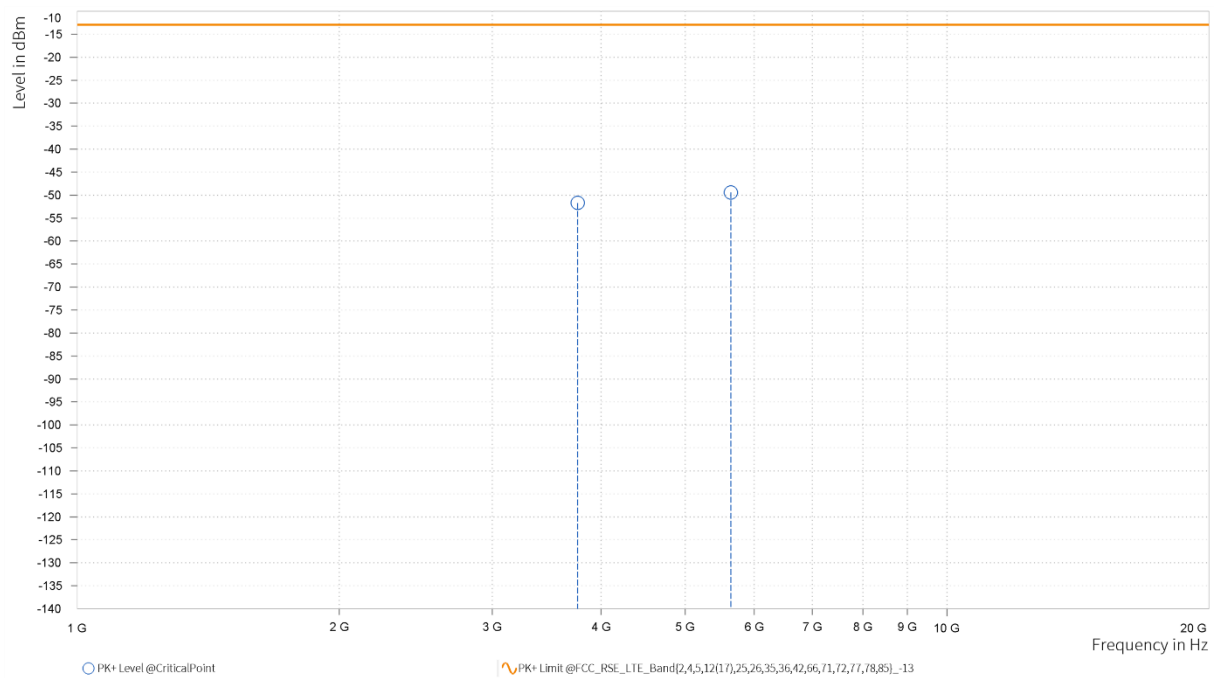




BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

REMARKS			
MODE	TX channel 376500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,760.500	-51.72	-13.00	38.72	22.13	V	144.3	2.00
4	5,640.750	-49.42	-13.00	36.42	25.14	V	77.8	2.00



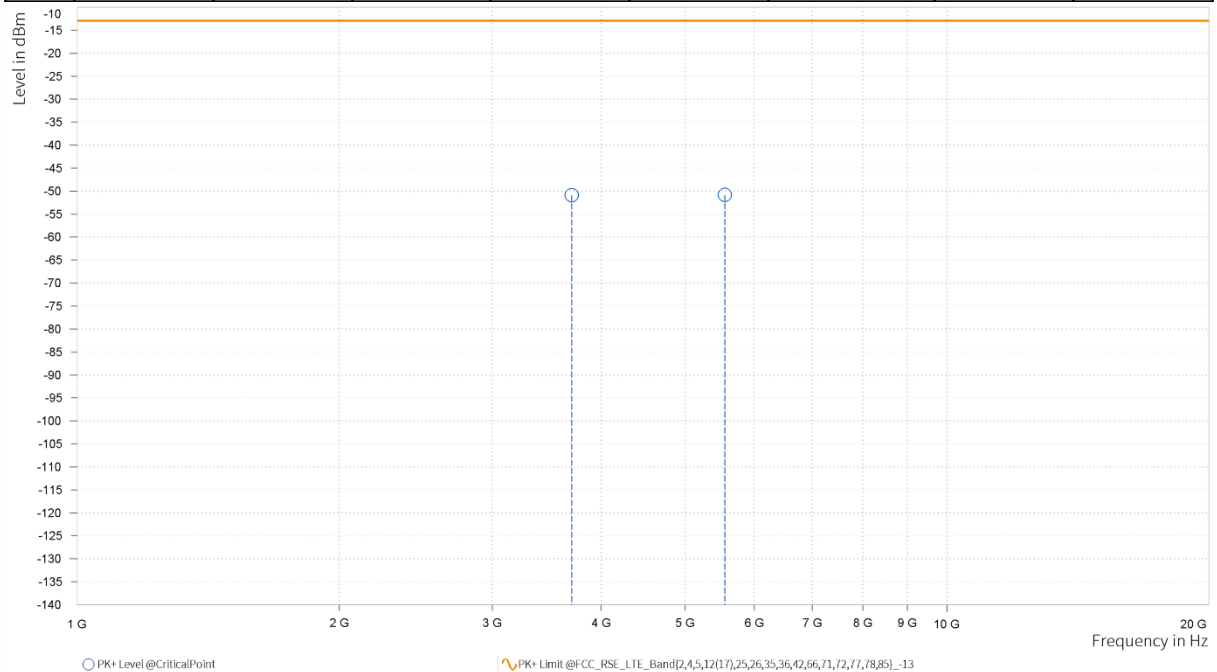


CHANNEL BANDWIDTH: 10MHz / QPSK

CH 371000:

MODE	TX channel 371000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,701.000	-50.91	-13.00	37.91	21.12	H	208	1.00
4	5,551.500	-50.83	-13.00	37.83	24.26	H	359	2.00

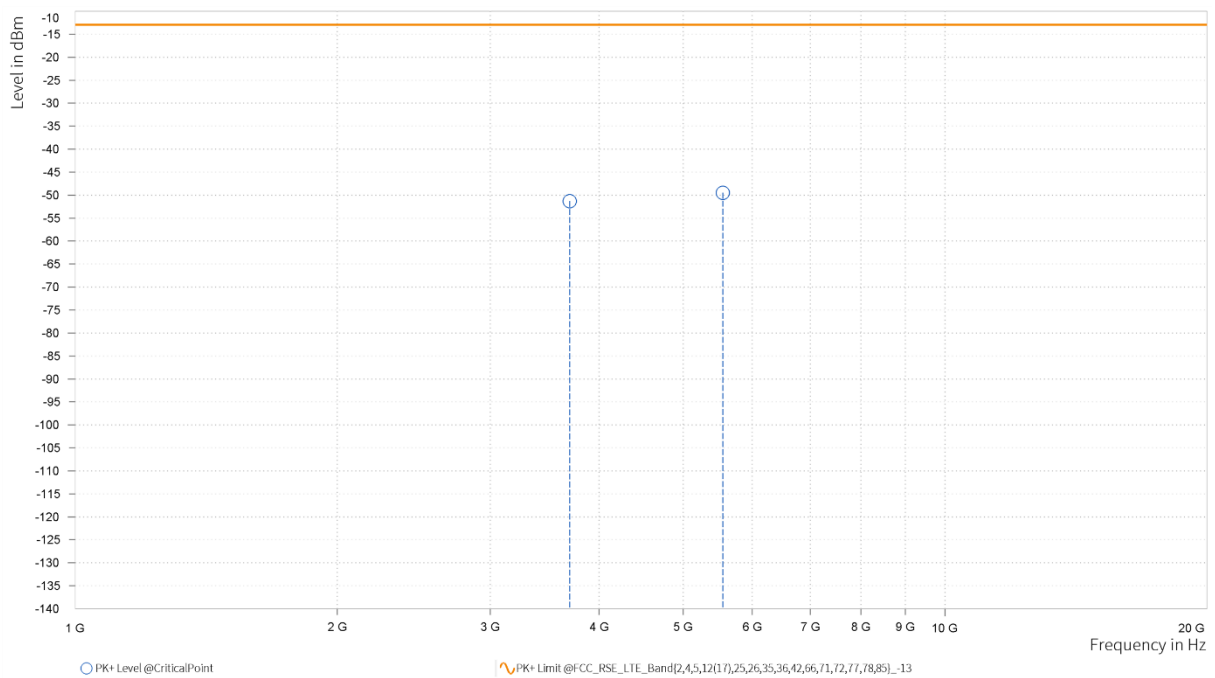




BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

MODE	TX channel 371000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,701.000	-51.29	-13.00	38.29	21.71	V	359.1	1.00
4	5,551.500	-49.49	-13.00	36.49	24.96	V	0.9	2.00

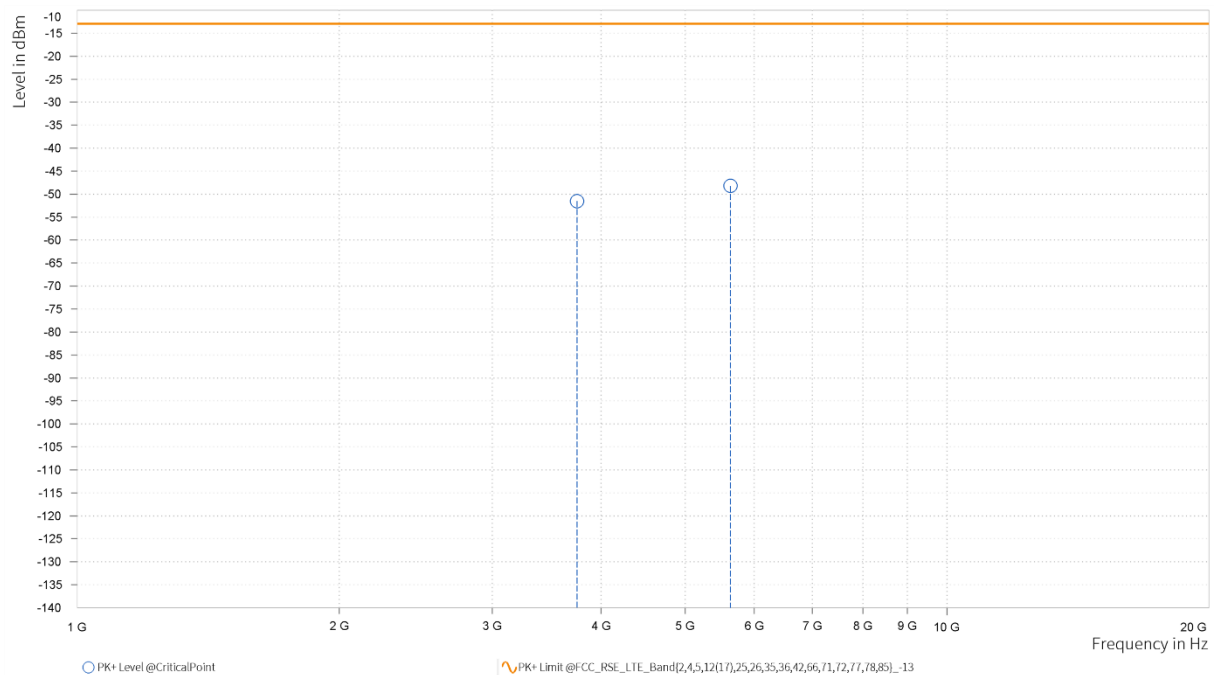




BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06
CH 376500:

MODE	TX channel 376500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

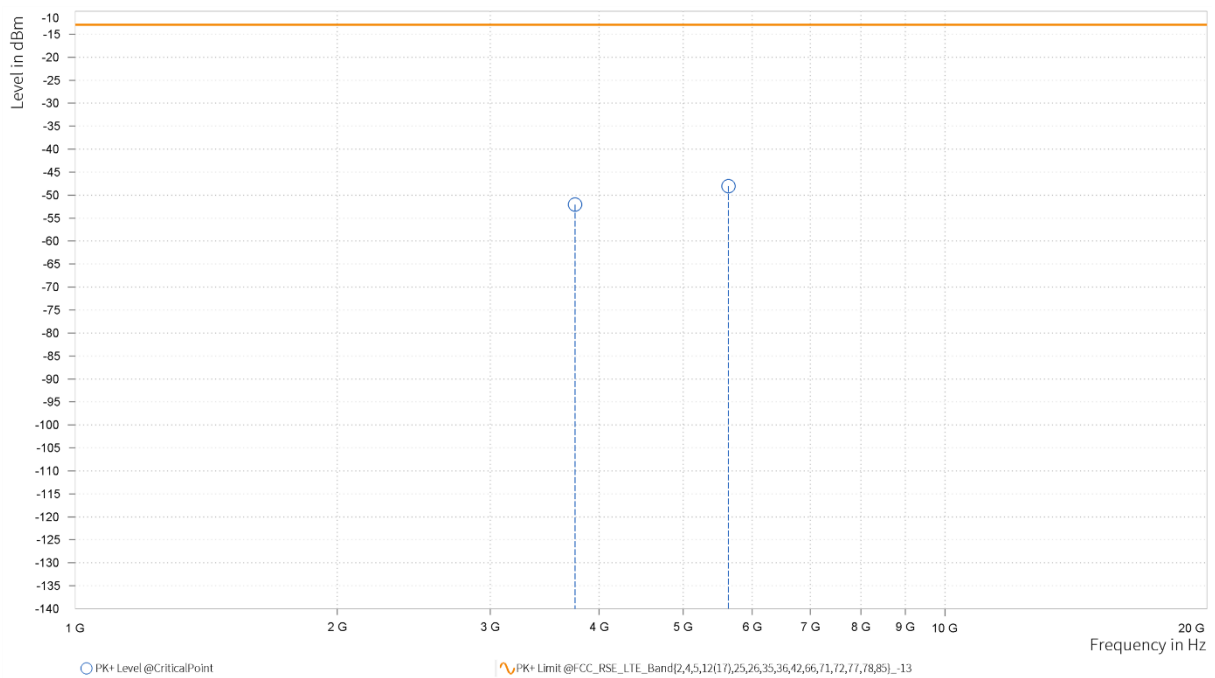
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,756.000	-51.53	-13.00	38.53	21.56	H	30.3	2.00
4	5,634.000	-48.21	-13.00	35.21	24.76	H	1	1.00





MODE	TX channel 376500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,756.000	-52.05	-13.00	39.05	22.10	V	34.6	2.00
4	5,634.000	-48.05	-13.00	35.05	25.09	V	244	1.00

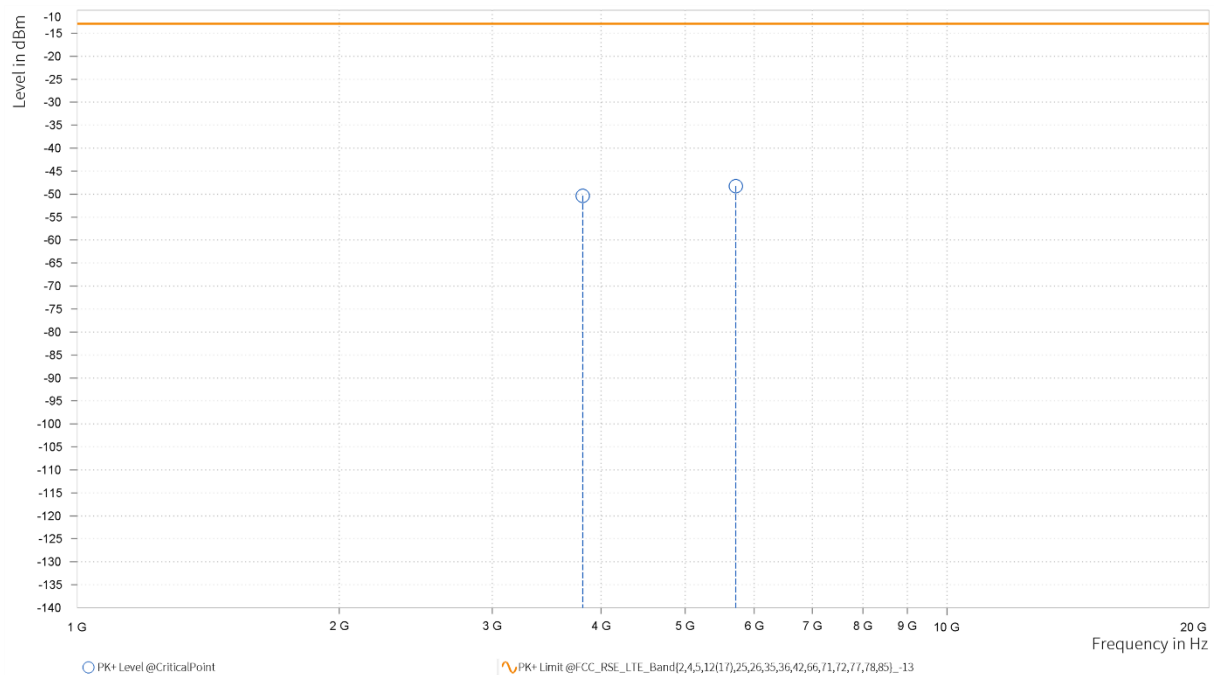




BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06
CH 382000:

MODE	TX channel 382000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

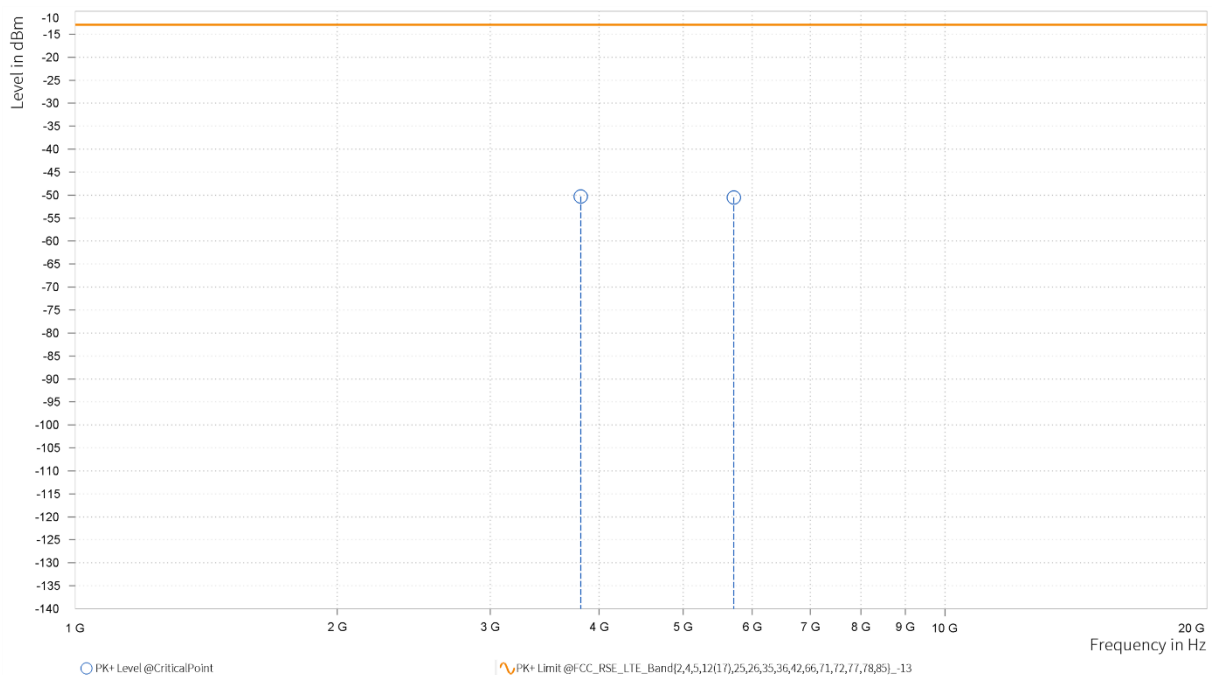
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,811.000	-50.38	-13.00	37.38	22.22	H	1	1.00
4	5,716.500	-48.27	-13.00	35.27	25.23	H	359	2.00





MODE	TX channel 382000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,811.000	-50.27	-13.00	37.27	22.53	V	201.6	1.00
4	5,716.500	-50.52	-13.00	37.52	25.68	V	94.6	1.00





BUREAU VERITAS Test Report No.: PSU-QSU2504140116RF06

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 376500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,751.500	-52.08	-13.00	39.08	21.47	H	1	2.00
4	5,627.250	-49.54	-13.00	36.54	24.71	H	359.1	1.00

