



Test Report No.: W7L-P23100014RF12



# VARIANT FCC RF TEST REPORT

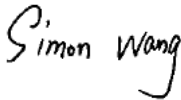
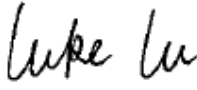
Applicant:	Nokia of America Corp
Address:	3201, Olympus Blvd, Dallas, TX 75019, USA

Manufacturer or Supplier:	Nokia of America Corp
Address:	3201, Olympus Blvd, Dallas, TX 75019, USA
Product:	Nokia Industrial 5G handheld HHRA501x
Brand Name:	Nokia
Model Name:	HHRA501a
Marketing Name:	Nokia Industrial 5G handheld HHRA501a
FCC ID:	2AVO2-HHRA501A
Date of tests:	Nov. 24, 2022 ~ Feb. 07, 2023

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

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

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Oct. 23, 2023	Date: Oct. 23, 2023

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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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22110036RF12	Original release	Feb. 07, 2023
W7L-P23100014RF12	Based on the original product changing the model name and FCC ID, brand name, marketing name, product name, battery model, applicant and manufacturer information.	Oct. 23, 2023



# 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(h)(2) §27.50(d)(4) §27.50(a)(3) §27.50(j)(3) §27.50(k)(3)	Equivalent Isotropically Radiated Power (5G NR n2, n7,n25,n30,n38,n41,n66,n77,n78)	Compliance	A
§22.913 (a) §27.50(b)(10) §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(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(a)(4) §27.53(n)(2)	Band Edge Measurements	Compliance	A
§2.1051 §22.917(a) §24.238(a)	Conducted Spurious Emissions	Compliance	A



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§27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(a)(4) §27.53(n)(2)			
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(a)(4) §27.53(n)(2)	Radiated Spurious Emissions	Compliance	A/B
§27.50(j)(4)	Peak-to-Average Ratio	Compliance	A

**\*Test Lab Information Reference**

**Lab A:**

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

**Lab Address:**

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

**Accredited Test Lab Cert 3939.01**

**FCC Site Registration No. : 525120; Designation No. : CN1171;**

**Lab B:**

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

**Lab Address:**

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

**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  $k=2$ .



## 1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.04,22	Sep.03,23
Bilog Antenna	ETS-LINDGRE N	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGRE N	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K- SG/QMS-00361	15433	Aug. 24, 22	Aug. 23, 23
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 15,22	Feb. 14,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 21,22	Feb.20,23
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	Euroshieldpn- CT0001143-121 6	May. 19,20	May. 18,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 07,22	May. 06,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 07,22	May. 06,23
Temperature Chamber	ESPEC	SH-242	93000855	May. 12,22	May. 11,23
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 18,22	Feb. 17,23
Base station R&S CMW500	Rohde&Schwa rz	CMW500	153085	May.12,22	May.11,23
Radio Communication Analyzer	Starpoint	SP9500-CTS	20460	Oct. 13,22	Oct. 12,23

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 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 525120; The Designation No. is CN1171.





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Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
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	Feb.25,22	Feb.24,24
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	EMC32	EMC32	N/A	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	Oct.01,22	Sep.30,24
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
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	Oct.31,22	Apr.29,23
CABLE	R&S	W12.14	N/A	Oct.31,22	Apr.29,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Oct.31,22	Apr.29,23
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Oct.31,22	Apr.29,23
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 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.

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## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Nokia Industrial 5G handheld HHRA501x	
<b>BRAND NAME</b>	Nokia	
<b>MODEL NAME</b>	HHRA501a	
<b>MARKETING NAME</b>	Nokia Industrial 5G handheld HHRA501a	
<b>NOMINAL VOLTAGE</b>	5.0Vdc(adapter or host equipment) 3.7Vdc (Li-ion, battery)	
<b>MODULATION TECHNOLOGY</b>	<b>5G NR</b>	DFT-s-OFMA(Pi/2BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFMA(QPSK,16QAM,64QAM,256QAM);
<b>LTE ANCHOR BAND FOR NR BAND</b>	<b>NR Band n2</b>	LTE Band 5/7/12/13/14/66/71
	<b>NR Band n5</b>	LTE Band 2/7/48/66
	<b>NR Band n7</b>	LTE Band 2/5/12/13/66/71
	<b>NR Band n12</b>	LTE Band 2/7/66
	<b>NR Band n25</b>	LTE Band 12/48/66
	<b>NR Band n30</b>	Only SA Mode
	<b>NR Band n38</b>	LTE Band 2/4/5/12/66/71
	<b>NR Band n41</b>	LTE Band 2/4/5/12/25/66/71
	<b>NR Band n66</b>	LTE Band 2/5/7/12/13/14/48/71
	<b>NR Band n71</b>	LTE Band 2/7/66
	<b>NR Band n77(Part27Q)</b>	LTE Band 2/5/7/12/13/14/41/66
	<b>NR Band n77(Part27O)</b>	LTE Band 2/5/7/12/13/14/41/66
<b>NR Band n78(Part27Q)</b>	LTE Band 2/4/5/12/13/26/38/41/66/71	
<b>FREQUENCY RANGE</b>	<b>NR Band n2</b>	1852.5MHz ~ 1907.5MHz
	<b>NR Band n5</b>	826.5MHz ~ 846.5MHz
	<b>NR Band n7</b>	2502.5MHz ~ 2567.5MHz
	<b>NR Band n12</b>	701.5MHz ~ 713.5MHz
	<b>NR Band n25</b>	1852.5MHz ~ 1912.5MHz
	<b>NR Band n30</b>	2307.5MHz ~ 2312.5MHz
	<b>NR Band n38</b>	2582.52MHz ~ 2607.48MHz

<b>FREQUENCY RANGE</b>	<b>NR Band n41</b>	2506.02MHz ~ 2679.99MHz
	<b>NR Band n66</b>	1712.5MHz ~ 1777.5MHz
	<b>NR Band n71</b>	665.5MHz ~ 695.5MHz
	<b>NR Band n77(Part27Q)</b>	3460.02MHz ~ 3540MHz
	<b>NR Band n77(Part27O)</b>	3710.01MHz ~ 3969.99MHz
	<b>NR Band n78(Part27Q)</b>	3460.02MHz ~ 3540MHz
<b>EMISSION DESIGNATOR</b>	<b>NR Band n5 Channel Bandwidth: 5MHz</b>	QPSK: 4M48G7D 16QAM: 4M49W7D 64QAM: 4M50W7D 256QAM: 4M48W7D Pi/2BPSK: 4M50G9W
	<b>NR Band n5 Channel Bandwidth: 10MHz</b>	QPSK: 8M98G7D 16QAM: 8M97W7D 64QAM: 8M98W7D 256QAM: 8M96W7D Pi/2BPSK: 8M96G9W
	<b>NR Band n5 Channel Bandwidth: 15MHz</b>	QPSK: 13M4G7D 16QAM: 13M5W7D 64QAM: 13M4W7D 256QAM: 13M4W7D Pi/2BPSK: 13M5G9W
	<b>NR Band n5 Channel Bandwidth: 20MHz</b>	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 17M9W7D Pi/2BPSK: 17M9G9W
	<b>NR Band n7 Channel Bandwidth: 5MHz</b>	QPSK: 4M51G7D 16QAM: 4M49W7D 64QAM: 4M49W7D 256QAM: 4M49W7D Pi/2BPSK: 4M49G9W
	<b>NR Band n7 Channel Bandwidth: 10MHz</b>	QPSK: 8M97G7D 16QAM: 8M98W7D 64QAM: 8M99W7D 256QAM: 8M98W7D Pi/2BPSK: 8M97G9W



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<b>EMISSION DESIGNATOR</b>	<b>NR Band n7 Channel Bandwidth: 15MHz</b>	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M4W7D 256QAM: 13M5W7D Pi/2BPSK: 13M5G9W
	<b>NR Band n7 Channel Bandwidth: 20MHz</b>	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 17M9W7D Pi/2BPSK: 17M9G9W
	<b>NR Band n12 Channel Bandwidth: 5MHz</b>	QPSK: 4M53G7D 16QAM: 4M49W7D 64QAM: 4M52W7D 256QAM: 4M50W7D Pi/2BPSK: 4M50G9W
	<b>NR Band n12 Channel Bandwidth: 10MHz</b>	QPSK: 8M92G7D 16QAM: 8M94W7D 64QAM: 8M95W7D 256QAM: 8M92W7D Pi/2BPSK: 8M93G9W
	<b>NR Band n12 Channel Bandwidth: 15MHz</b>	QPSK: 13M4G7D 16QAM: 13M4W7D 64QAM: 13M4W7D 256QAM: 13M4W7D Pi/2BPSK: 13M4G9W
	<b>NR Band n25 Channel Bandwidth: 5MHz</b>	QPSK: 4M52G7D 16QAM: 4M50W7D 64QAM: 4M49W7D 256QAM: 4M51W7D Pi/2BPSK: 4M49G9W
	<b>NR Band n25 Channel Bandwidth: 10MHz</b>	QPSK: 8M98G7D 16QAM: 9M00W7D 64QAM: 8M99W7D 256QAM: 8M97W7D Pi/2BPSK: 8M98G9W
	<b>NR Band n25 Channel Bandwidth: 15MHz</b>	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M5G9W



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<b>EMISSION DESIGNATOR</b>	<b>NR Band n25 Channel Bandwidth: 20MHz</b>	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 17M9W7D Pi/2BPSK: 17M9G9W
	<b>NR Band n25 Channel Bandwidth: 25MHz</b>	QPSK: 22M8G7D 16QAM: 22M8W7D 64QAM: 22M8W7D 256QAM: 22M8W7D Pi/2BPSK: 22M8G9W
	<b>NR Band n25 Channel Bandwidth: 30MHz</b>	QPSK: 28M5G7D 16QAM: 28M5W7D 64QAM: 28M5W7D 256QAM: 28M5W7D Pi/2BPSK: 28M5G9W
	<b>NR Band n25 Channel Bandwidth: 40MHz</b>	QPSK: 38M5G7D 16QAM: 38M5W7D 64QAM: 38M5W7D 256QAM: 38M5W7D Pi/2BPSK: 38M5G9W
	<b>NR Band n30 Channel Bandwidth: 5MHz</b>	QPSK: 4M49G7D 16QAM: 4M51W7D 64QAM: 4M50W7D 256QAM: 4M50W7D Pi/2BPSK: 4M51G9W
	<b>NR Band n30 Channel Bandwidth: 10MHz</b>	QPSK: 8M99G7D 16QAM: 8M99W7D 64QAM: 8M99W7D 256QAM: 8M97W7D Pi/2BPSK: 8M98G9W
	<b>NR Band n41 Channel Bandwidth: 20MHz</b>	QPSK: 18M0G7D 16QAM: 18M0W7D 64QAM: 18M0W7D 256QAM: 17M9W7D Pi/2BPSK: 18M0G9W
	<b>NR Band n41 Channel Bandwidth: 30MHz</b>	QPSK: 26M8G7D 16QAM: 26M8W7D 64QAM: 26M8W7D 256QAM: 26M8W7D Pi/2BPSK: 26M8G9W



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<b>EMISSION DESIGNATOR</b>	<b>NR Band n41 Channel Bandwidth: 40MHz</b>	QPSK: 35M7G7D 16QAM: 35M7W7D 64QAM: 35M7W7D 256QAM: 35M7W7D Pi/2BPSK: 35M7G9W
	<b>NR Band n41 Channel Bandwidth 50MHz</b>	QPSK: 45M8G7D 16QAM: 45M8W7D 64QAM: 45M8W7D 256QAM: 45M8W7D Pi/2BPSK: 45M8G9W
	<b>NR Band n41 Channel Bandwidth 60MHz</b>	QPSK: 57M9G7D 16QAM: 57M9W7D 64QAM: 57M9W7D 256QAM: 57M9W7D Pi/2BPSK: 57M9G9W
	<b>NR Band n41 Channel Bandwidth 80MHz</b>	QPSK: 77M3G7D 16QAM: 77M2W7D 64QAM: 77M2W7D 256QAM: 77M3W7D Pi/2BPSK: 77M3G9W
	<b>NR Band n41 Channel Bandwidth 90MHz</b>	QPSK: 85M8G7D 16QAM: 85M8W7D 64QAM: 85M8W7D 256QAM: 85M8W7D Pi/2BPSK: 85M8G9W
	<b>NR Band n41 Channel Bandwidth 100MHz</b>	QPSK: 96M6G7D 16QAM: 96M6W7D 64QAM: 96M6W7D 256QAM: 96M4W7D Pi/2BPSK: 96M6G9W
	<b>NR Band n66 Channel Bandwidth: 5MHz</b>	QPSK: 4M49G7D 16QAM: 4M50W7D 64QAM: 4M50W7D 256QAM: 4M50W7D Pi/2BPSK: 4M50G9W
	<b>NR Band n66 Channel Bandwidth: 10MHz</b>	QPSK: 8M97G7D 16QAM: 8M99W7D 64QAM: 8M99W7D 256QAM: 8M98W7D Pi/2BPSK: 8M95G9W



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<b>EMISSION DESIGNATOR</b>	<b>NR Band n66 Channel Bandwidth: 15MHz</b>	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M5W7D 256QAM: 13M4W7D Pi/2BPSK: 13M5G9W
	<b>NR Band n66 Channel Bandwidth: 20MHz</b>	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 17M9W7D Pi/2BPSK: 17M9G9W
	<b>NR Band n66 Channel Bandwidth: 30MHz</b>	QPSK: 28M5G7D 16QAM: 28M6W7D 64QAM: 28M6W7D 256QAM: 28M5W7D Pi/2BPSK: 28M5G9W
	<b>NR Band n66 Channel Bandwidth: 40MHz</b>	QPSK: 38M5G7D 16QAM: 38M5W7D 64QAM: 38M5W7D 256QAM: 38M6W7D Pi/2BPSK: 38M5G9W
	<b>NR Band n71 Channel Bandwidth: 5MHz</b>	QPSK: 4M50G7D 16QAM: 4M51W7D 64QAM: 4M51W7D 256QAM: 4M49W7D Pi/2BPSK: 4M51G9W
	<b>NR Band n71 Channel Bandwidth: 10MHz</b>	QPSK: 8M98G7D 16QAM: 8M99W7D 64QAM: 9M01W7D 256QAM: 8M96W7D Pi/2BPSK: 8M97G9W
	<b>NR Band n71 Channel Bandwidth: 15MHz</b>	QPSK: 13M5G7D 16QAM: 13M5W7D 64QAM: 13M5W7D 256QAM: 13M5W7D Pi/2BPSK: 13M5G9W
	<b>NR Band 78(Part27Q) Channel Bandwidth: 20MHz</b>	QPSK: 17M9G7D 16QAM: 17M9W7D 64QAM: 17M9W7D 256QAM: 17M9W7D Pi/2BPSK: 17M9G9W



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<b>EMISSION DESIGNATOR</b>	<b>NR Band 78(Part27Q) Channel Bandwidth: 30MHz</b>	QPSK: 26M8G7D 16QAM: 26M8W7D 64QAM: 26M7W7D 256QAM: 26M8W7D Pi/2BPSK: 26M8G9W
	<b>NR Band 78(Part27Q) Channel Bandwidth: 40MHz</b>	QPSK: 35M7G7D 16QAM: 35M7W7D 64QAM: 35M7W7D 256QAM: 35M7W7D Pi/2BPSK: 35M7G9W
	<b>NR Band 78(Part27Q) Channel Bandwidth: 50MHz</b>	QPSK: 45M8G7D 16QAM: 45M8W7D 64QAM: 45M9W7D 256QAM: 45M9W7D Pi/2BPSK: 45M8G9W
	<b>NR Band 78(Part27Q) Channel Bandwidth: 60MHz</b>	QPSK: 57M9G7D 16QAM: 58M0W7D 64QAM: 58M0W7D 256QAM: 58M0W7D Pi/2BPSK: 58M0G9W
	<b>NR Band 78(Part27Q) Channel Bandwidth: 80MHz</b>	QPSK: 77M1G7D 16QAM: 77M1W7D 64QAM: 77M2W7D 256QAM: 77M2W7D Pi/2BPSK: 77M1G9W
	<b>NR Band 78(Part27Q) Channel Bandwidth: 90MHz</b>	QPSK: 85M5G7D 16QAM: 85M6W7D 64QAM: 85M6W7D 256QAM: 85M7W7D Pi/2BPSK: 85M7G9W
	<b>NR Band 78(Part27Q) Channel Bandwidth: 100MHz</b>	QPSK: 96M3G7D 16QAM: 96M5W7D 64QAM: 96M3W7D 256QAM: 96M3W7D Pi/2BPSK: 96M3G9W





<b>EMISSION DESIGNATOR</b>	<b>NR Band 77(Part27O) Channel Bandwidth: 20MHz</b>	QPSK: 17M8G7D 16QAM: 17M8W7D 64QAM: 17M9W7D 256QAM: 17M9W7D Pi/2BPSK: 17M8G9W
	<b>NR Band 77(Part27O) Channel Bandwidth: 30MHz</b>	QPSK: 26M8G7D 16QAM: 26M7W7D 64QAM: 26M7W7D 256QAM: 26M8W7D Pi/2BPSK: 26M8G9W
	<b>NR Band 77(Part27O) Channel Bandwidth: 40MHz</b>	QPSK: 35M7G7D 16QAM: 35M7W7D 64QAM: 35M7W7D 256QAM: 35M7W7D Pi/2BPSK: 35M7G9W
	<b>NR Band 77(Part27O) Channel Bandwidth: 50MHz</b>	QPSK: 45M7G7D 16QAM: 45M7W7D 64QAM: 45M6W7D 256QAM: 45M7W7D Pi/2BPSK: 45M6G9W
	<b>NR Band 77(Part27O) Channel Bandwidth: 60MHz</b>	QPSK: 57M9G7D 16QAM: 57M9W7D 64QAM: 58M0W7D 256QAM: 57M9W7D Pi/2BPSK: 57M9G9W
	<b>NR Band 77(Part27O) Channel Bandwidth: 80MHz</b>	QPSK: 77M1G7D 16QAM: 77M1W7D 64QAM: 77M0W7D 256QAM: 77M0W7D Pi/2BPSK: 77M0G9W
	<b>NR Band 77(Part27O) Channel Bandwidth: 100MHz</b>	QPSK: 96M3G7D 16QAM: 96M3W7D 64QAM: 96M3W7D 256QAM: 96M2W7D Pi/2BPSK: 96M3G9W



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<b>5G SA MAX. EIRP POWER</b>	<b>NR Band n2</b> <b>Channel Bandwidth:</b> <b>5MHz</b>	184.08mW
	<b>NR Band n2</b> <b>Channel Bandwidth:</b> <b>10MHz</b>	184.5mW
	<b>NR Band n2</b> <b>Channel Bandwidth:</b> <b>15MHz</b>	185.35mW
	<b>NR Band n2</b> <b>Channel Bandwidth:</b> <b>20MHz</b>	189.23mW
	<b>NR Band n5</b> <b>Channel Bandwidth:</b> <b>5MHz</b>	57.81mW
	<b>NR Band n5</b> <b>Channel Bandwidth:</b> <b>10MHz</b>	57.28mW
	<b>NR Band n5</b> <b>Channel Bandwidth:</b> <b>15MHz</b>	57.68mW
	<b>NR Band n5</b> <b>Channel Bandwidth:</b> <b>20MHz</b>	59.43mW
	<b>NR Band n7</b> <b>Channel Bandwidth:</b> <b>5MHz</b>	142.89mW
	<b>NR Band n7</b> <b>Channel Bandwidth:</b> <b>10MHz</b>	140.93mW
	<b>NR Band n7</b> <b>Channel Bandwidth:</b> <b>15MHz</b>	141.91mW
	<b>NR Band n7</b> <b>Channel Bandwidth:</b> <b>20MHz</b>	146.22mW



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<b>5G SA MAX. EIRP POWER</b>	NR Band n12 Channel Bandwidth: 5MHz	102.09mW
	NR Band n12 Channel Bandwidth: 10MHz	101.86mW
	NR Band n12 Channel Bandwidth: 15MHz	104.71mW
	NR Band n25 Channel Bandwidth: 5MHz	187.07mW
	NR Band n25 Channel Bandwidth: 10MHz	190.55mW
	NR Band n25 Channel Bandwidth: 15MHz	188.36mW
	NR Band n25 Channel Bandwidth: 20MHz	190.99mW
	NR Band n25 Channel Bandwidth: 25MHz	190.11mW
	NR Band n25 Channel Bandwidth: 30MHz	194.09mW
	NR Band n25 Channel Bandwidth: 40MHz	195.43mW
	NR Band n30 Channel Bandwidth: 5MHz	113.5mW
	NR Band n30 Channel Bandwidth: 10MHz	114.82mW
	NR Band n38 Channel Bandwidth: 20MHz	142.89mW

<b>5G SA MAX. EIRP POWER</b>	<b>NR Band n38</b> <b>Channel Bandwidth:</b> <b>30MHz</b>	143.55mW
	<b>NR Band n38</b> <b>Channel Bandwidth:</b> <b>40MHz</b>	144.21mW
	<b>NR Band n41</b> <b>Channel Bandwidth:</b> <b>20MHz</b>	141.91mW
	<b>NR Band n41</b> <b>Channel Bandwidth:</b> <b>30MHz</b>	144.88mW
	<b>NR Band n41</b> <b>Channel Bandwidth:</b> <b>40MHz</b>	141.91mW
	<b>NR Band n41</b> <b>Channel Bandwidth:</b> <b>50MHz</b>	144.21mW
	<b>NR Band n41</b> <b>Channel Bandwidth:</b> <b>60MHz</b>	139.64mW
	<b>NR Band n41</b> <b>Channel Bandwidth:</b> <b>80MHz</b>	142.23mW
	<b>NR Band n41</b> <b>Channel Bandwidth:</b> <b>90MHz</b>	142.89mW
	<b>NR Band n41</b> <b>Channel Bandwidth:</b> <b>100MHz</b>	144.54mW
	<b>NR Band n66</b> <b>Channel Bandwidth:</b> <b>5MHz</b>	240.44mW
	<b>NR Band n66</b> <b>Channel Bandwidth:</b> <b>10MHz</b>	236.05mW



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<b>5G SA MAX. EIRP POWER</b>	<b>NR Band n66</b> <b>Channel Bandwidth:</b> <b>15MHz</b>	238.23mW
	<b>NR Band n66</b> <b>Channel Bandwidth:</b> <b>20MHz</b>	239.88mW
	<b>NR Band n66</b> <b>Channel Bandwidth:</b> <b>30MHz</b>	240.99mW
	<b>NR Band n66</b> <b>Channel Bandwidth:</b> <b>40MHz</b>	243.78mW
	<b>NR Band n71</b> <b>Channel Bandwidth:</b> <b>5MHz</b>	39.45mW
	<b>NR Band n71</b> <b>Channel Bandwidth:</b> <b>10MHz</b>	40.09mW
	<b>NR Band n71</b> <b>Channel Bandwidth:</b> <b>15MHz</b>	40.64mW
	<b>NR Band 77(Part27Q)</b> <b>Channel Bandwidth:</b> <b>20MHz</b>	149.62mW
	<b>NR Band 77(Part27Q)</b> <b>Channel Bandwidth:</b> <b>30MHz</b>	149.62mW
	<b>NR Band 77(Part27Q)</b> <b>Channel Bandwidth:</b> <b>40MHz</b>	151.36mW
	<b>NR Band 77(Part27Q)</b> <b>Channel Bandwidth:</b> <b>50MHz</b>	153.11mW
	<b>NR Band 77(Part27Q)</b> <b>Channel Bandwidth:</b> <b>60MHz</b>	151.36mW
	<b>NR Band 77(Part27Q)</b> <b>Channel Bandwidth:</b> <b>80MHz</b>	153.11mW
	<b>NR Band 77(Part27Q)</b> <b>Channel Bandwidth:</b> <b>100MHz</b>	153.46mW



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<b>5G SA MAX. EIRP POWER</b>	NR Band 77(Part27O) Channel Bandwidth: 20MHz	157.76mW
	NR Band 77(Part27O) Channel Bandwidth: 30MHz	156.68mW
	NR Band 77(Part27O) Channel Bandwidth: 40MHz	158.49mW
	NR Band 77(Part27O) Channel Bandwidth: 50MHz	154.53mW
	NR Band 77(Part27O) Channel Bandwidth: 60MHz	155.6mW
	NR Band 77(Part27O) Channel Bandwidth: 80MHz	157.76mW
	NR Band 77(Part27O) Channel Bandwidth: 100MHz	160.32mW
	NR Band 78(Part27Q) Channel Bandwidth: 20MHz	152.41mW
	NR Band 78(Part27Q) Channel Bandwidth: 30MHz	152.05mW
	NR Band 78(Part27Q) Channel Bandwidth: 40MHz	152.82mW
	NR Band 78(Part27Q) Channel Bandwidth: 50MHz	153.11mW
	NR Band 78(Part27Q) Channel Bandwidth: 60MHz	157.04mW
	NR Band 78(Part27Q) Channel Bandwidth: 80MHz	154.53mW
	NR Band 78(Part27Q) Channel Bandwidth: 90MHz	156.68mW
	NR Band 78(Part27Q) Channel Bandwidth: 100MHz	157.4mW



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<b>5G SRS MAX. EIRP POWER</b>	<b>NR Band n41 Channel Bandwidth: 20MHz</b>	155.6mW
	<b>NR Band n41 Channel Bandwidth: 30MHz</b>	157.76mW
	<b>NR Band n41 Channel Bandwidth: 40MHz</b>	154.17mW
	<b>NR Band n41 Channel Bandwidth: 50MHz</b>	155.96mW
	<b>NR Band n41 Channel Bandwidth: 60MHz</b>	152.76mW
	<b>NR Band n41 Channel Bandwidth: 80MHz</b>	154.88mW
	<b>NR Band n41 Channel Bandwidth: 90MHz</b>	155.24mW
	<b>NR Band n41 Channel Bandwidth: 100MHz</b>	157.76mW
	<b>NR Band 77(Part27Q) Channel Bandwidth: 20MHz</b>	171.79mW
	<b>NR Band 77(Part27Q) Channel Bandwidth: 30MHz</b>	173.78mW
	<b>NR Band 77(Part27Q) Channel Bandwidth: 40MHz</b>	174.98mW
	<b>NR Band 77(Part27Q) Channel Bandwidth: 50MHz</b>	175.39mW
	<b>NR Band 77(Part27Q) Channel Bandwidth: 60MHz</b>	173.78mW
	<b>NR Band 77(Part27Q) Channel Bandwidth: 80MHz</b>	176.6mW



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<b>5G SRS MAX. EIRP POWER</b>	<b>NR Band 77(Part27Q) Channel Bandwidth: 100MHz</b>	175.39mW
	<b>NR Band 77(Part27O) Channel Bandwidth: 20MHz</b>	179.06mW
	<b>NR Band 77(Part27O) Channel Bandwidth: 30MHz</b>	179.47mW
	<b>NR Band 77(Part27O) Channel Bandwidth: 40MHz</b>	175.79mW
	<b>NR Band 77(Part27O) Channel Bandwidth: 50MHz</b>	177.42mW
	<b>NR Band 77(Part27O) Channel Bandwidth: 60MHz</b>	179.06mW
	<b>NR Band 77(Part27O) Channel Bandwidth: 80MHz</b>	180.72mW
	<b>NR Band 77(Part27O) Channel Bandwidth: 100MHz</b>	183.23mW
	<b>NR Band 78(Part27Q) Channel Bandwidth: 20MHz</b>	177.42mW
	<b>NR Band 78(Part27Q) Channel Bandwidth: 30MHz</b>	178.78mW
	<b>NR Band 78(Part27Q) Channel Bandwidth: 40MHz</b>	175.79mW
	<b>NR Band 78(Part27Q) Channel Bandwidth: 50MHz</b>	176.2mW
	<b>NR Band 78(Part27Q) Channel Bandwidth: 60MHz</b>	178.65mW
	<b>NR Band 78(Part27Q) Channel Bandwidth: 80MHz</b>	175.79mW
	<b>NR Band 78(Part27Q) Channel Bandwidth: 90MHz</b>	179.06mW
	<b>NR Band 78(Part27Q) Channel Bandwidth: 100MHz</b>	179.47mW





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<b>ANTENNA TYPE</b>	5G SA
	ANT 1
	PIFA Antenna with -0.5 dBi gain for NR Band n2
	PIFA Antenna with -3 dBi gain for NR Band n5
	PIFA Antenna with -1.5 dBi gain for NR Band n7
	PIFA Antenna with -2.5 dBi gain for NR Band n12
	PIFA Antenna with -0.5 dBi gain for NR Band n25
	PIFA Antenna with -2.8 dBi gain for NR Band n30
	PIFA Antenna with -1.5 dBi gain for NR Band n38
	PIFA Antenna with -1.5 dBi gain for NR Band n41
	PIFA Antenna with 0.4 dBi gain for NR Band n66
	PIFA Antenna with -7 dBi gain for NR Band n71
	PIFA Antenna with -1.3 dBi gain for NR Band n77
	PIFA Antenna with -1.3 dBi gain for NR Band n78
	5G SRS
	ANT 2
	PIFA Antenna with -1.5 dBi gain for NR Band n41
ANT 3	
PIFA Antenna with -3 dBi gain for NR Band n41	
ANT 4	
PIFA Antenna with -0.7 dBi gain for NR Band n77(Part27Q)	
PIFA Antenna with -0.7 dBi gain for NR Band n77(Part27O)	
PIFA Antenna with -0.7 dBi gain for NR Band n78(Part27Q)	
ANT 5	
PIFA Antenna with -1.1 dBi gain for NR Band n41	
PIFA Antenna with -3.1 dBi gain for NR Band n77(Part27Q)	
PIFA Antenna with -3.1 dBi gain for NR Band n77(Part27O)	
PIFA Antenna with -3.1 dBi gain for NR Band n78(Part27Q)	
ANT 6	
PIFA Antenna with -1.1 dBi gain for NR Band n77(Part27Q)	
PIFA Antenna with -1.1 dBi gain for NR Band n77(Part27O)	
PIFA Antenna with -1.1 dBi gain for NR Band n78(Part27Q)	
<b>HW VERSION</b>	V02
<b>SW VERSION</b>	IS540_ROW_00.00_1_20221017
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	N/A
<b>EXTREME TEMPERATURE</b>	-10-50 °C
<b>EXTREME VOLTAGE</b>	3.6V - 4.2V



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**NOTE:**

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

MODULATION MODE	TX FUNCTION
5G NR	1TX/4RX

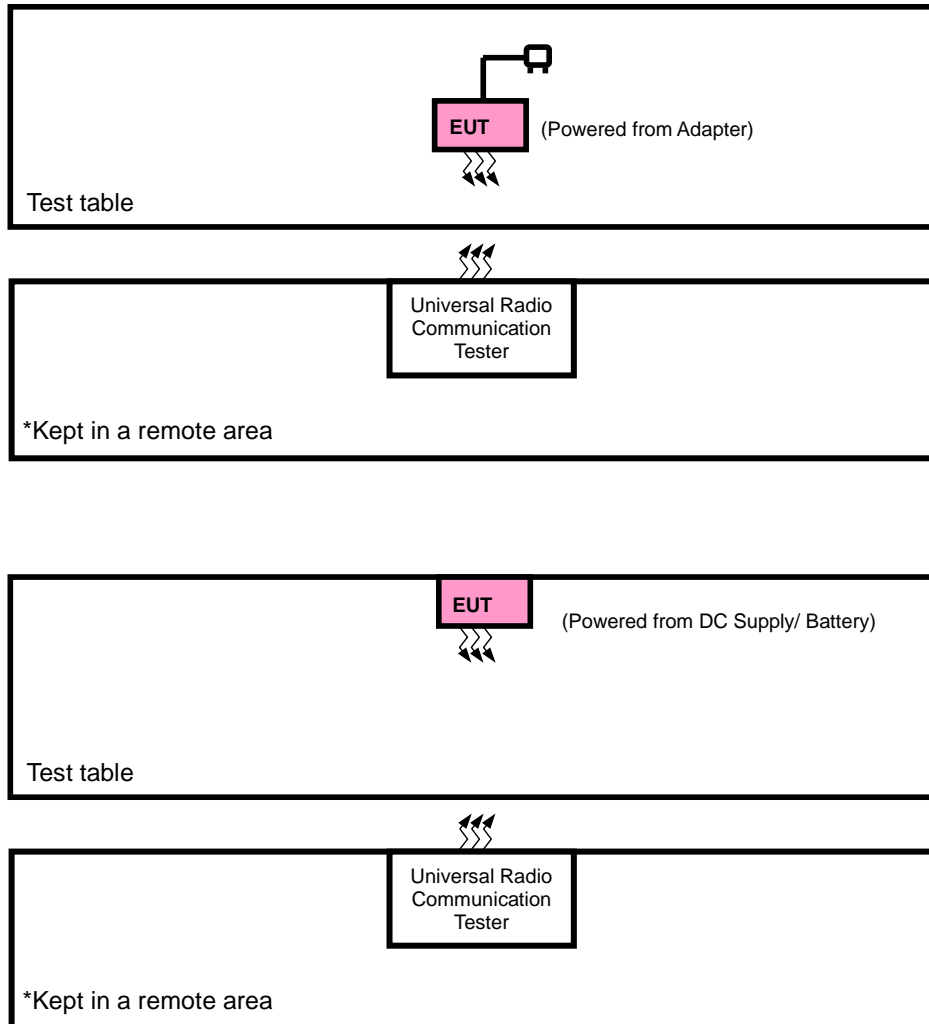
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Max ERP/EIRP is according to Max conducted power calculate for SA.
5. This device supports SRS (sounding reference signal) 1, 2, 3,4 mode for NR TDD bands. For each SRS 1, 2 and 3, 4, Conducted power and radiated measurement were performed through FTM mode provide by the customer.

**List of Accessory:**

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	N/A	FPR Connectivity Technology Inc.	BL440ACP	Capacity : 3.7Vdc, 4400mAh
AC Adapter	N/A	SHENZHEN SHI YINGYUAN POWER SUPPLY TECHNOLOGY CO., LTD.	ICP12-050-2000B	I/P: 100-240Vac, 0.3A, O/P: 5.0Vdc, 2A
USB Cable 1	N/A	Winpower Technology Co., LTD	PROTECTOR 2.0	Signal Line,1.0meter
USB Cable 2	N/A	Winpower Technology Co., LTD	USB2.0	Signal Line,1.0meter

## 2.2 CONFIGURATION OF SYSTEM UNDER TEST

### FOR RADIATION EMISSION TEST





### 2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

### 2.4 TEST ITEM AND TEST CONFIGURATION

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

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with 5G NR link
B	EUT + DC Supply with 5G NR link



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5G NR n2 MODE (SA\_n2/ DC\_5A\_n2/ DC\_7A\_n2/ DC\_12A\_n2/ DC\_13A\_n2/ DC\_14A\_n2/ DC\_66A\_n2/ DC\_71A\_n2)

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 (SA\_n5/ DC\_2A\_n5/ DC\_7A\_n5/ DC\_48A\_n5/ DC\_66A\_n5)

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
B	FREQUENCY STABILITY	166800 to 167800	166800 to 167800	Middle	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	QPSK	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



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							Outer_ Full
				High	5MHz	QPSK	1RB/ 24RB Offset
							Outer_ Full
		165800 to 168800	165800 to 168800	Low	10MHz	QPSK	1RB/ 0RB Offset
				High	10MHz	QPSK	1RB/ 51RB Offset
							Outer_ Full
		166800 to 167800	166800 to 167800	Low	20MHz	QPSK	1RB/ 0RB Offset
				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
		166800 to 167800	166800 to 167800	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	165300 to 169300	165300 to 169300	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	Middle,	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 case was found in QPSK modulation.

2. The test data presented in the report from worst SA \_n5.



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5G NR n7 MODE (SA\_n7/ DC\_2A\_n7/ DC\_5A\_n7/ DC\_12A\_n7/ DC\_13A\_n7/ DC\_66A\_n7/ DC\_71A\_n7)

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	500500 to 513500	500500 to 513500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		51000 to 513000	51000 to 513000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		501500 to 512500	501500 to 512500	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	502000 to 512000	502000 to 512000	Middle	20MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset Outer_ Full
A	OCCUPIED BANDWIDTH	500500 to 513500	500500 to 513500	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		51000 to 513000	51000 to 513000	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		501500 to 512500	501500 to 512500	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		502000 to 512000	502000 to 512000	Middle	20MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	500500 to 513500	500500 to 513500	Low	5MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	5MHz	QPSK	1RB/ 24RB Offset Outer_ Full
				Low	10MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	10MHz	QPSK	1RB/ 51RB Offset Outer_ Full
		502000 to 512000	502000 to 512000	Low	20MHz	QPSK	1RB/ 0RB Offset Outer_ Full
				High	20MHz	QPSK	1RB/ 105RB Offset Outer_ Full

		502000 to 512000	502000 to 512000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	500500 to 513500	500500 to 513500	Middle	5MHz	QPSK	1RB/ 0RB Offset
		51000 to 513000	51000 to 513000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		501500 to 512500	501500 to 512500	Middle	15MHz	QPSK	1RB/ 0RB Offset
		502000 to 512000	502000 to 512000	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\_n7.

**5G NR n12 MODE (SA\_n12/ DC\_2A\_n12/ DC\_7A\_n12/ DC\_66A\_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
B	FREQUENCY STABILITY	141300 to 141700	141300 to 141700	Middle	15MHz	QPSK	Outer_Full
A	PEAK TO AVERAGE RATIO	141300 to 141700	141300 to 141700	Low, Middle, High	15MHz	QPSK	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	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset Outer_Full
				High	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 24RB Offset Outer_Full
		140800 to 142200	140800 to 142200	Low	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset Outer_Full
				High	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 51RB Offset Outer_Full
		141300 to 141700	141300 to 141700	Low	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset





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							Outer_ Full
				High	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	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/ DC\_12A\_n25/ DC\_48A\_n25/ DC\_66A\_n25)**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CP-OFDM CHANNEL	AVAILABL E DFT-S-OFDM CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDT H	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	QPSK	1RB/ 0RB Offset
		372500 to 380500	372500 to 380500	Low, Middle, High	25MHz	QPSK	1RB/ 0RB Offset
		373000 to 380000	373000 to 380000	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENCY STABILITY	374000 to 379000	374000 to 379000	Middle	40MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	374000 to 379000	374000 to 379000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							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



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		372000 to 381000	372000 to 381000	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		372500 to 380500	372500 to 380500	Low, Middle, High	25MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		373000 to 380000	373000 to 380000	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	370500 to 382500	370500 to 382500	Low	5MHz	QPSK	1RB/ 0RB Offset
				Outer_ Full			
		372000 to 381000	372000 to 381000	High	5MHz	QPSK	1RB/ 24 RB Offset
				Outer_ Full			
		374000 to 379000	374000 to 379000	Low	20MHz	QPSK	1RB/ 0RB Offset
				Outer_ Full			
		372000 to 381000	372000 to 381000	High	20MHz	QPSK	1RB/ 105 RB Offset
				Outer_ Full			
		374000 to 379000	374000 to 379000	Low	40MHz	QPSK	1RB/ 0RB Offset
				Outer_ Full			
370500 to 382500	370500 to 382500	High	40MHz	QPSK	1RB/ 215 RB Offset		
		Outer_ Full					
A	CONDUCTED EMISSION	370500 to 382500	370500 to 382500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		372000 to 381000	372000 to 381000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Low, Middle, High	40MHz	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
		372500 to 380500	372500 to 380500	Middle	25MHz	QPSK	1RB/ 0RB Offset
		373000 to 380000	373000 to 380000	Middle	30MHz	QPSK	1RB/ 0RB Offset
		374000 to 379000	374000 to 379000	Middle	40MHz	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



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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
B	FREQUENCY STABILITY	462000	462000	Middle	10MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	462000	462000	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
							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.



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5G NR n38 MODE (SA\_n38/ DC\_2A\_n38/ DC\_4A\_n38/ DC\_5A\_n38/ DC\_12A\_n38/ DC\_66A\_n38/ DC\_71A\_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	516504 to 521496	516504 to 521496	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		517002 to 520998	517002 to 520998	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		518004 to 519996	518004 to 519996	Low, Middle, High	40MHz	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/ DC\_2A\_n41/ DC\_4A\_n41/ DC\_5A\_n41/ DC\_12A\_n41/ DC\_25A\_n41/ DC\_66A\_n41/ DC\_71A\_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	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK,	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	509202 to 528000	509202 to 528000	Middle	100MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	509202 to 528000	509202 to 528000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset Outer_ Full
A	OCCUPIED BANDWIDTH	501204 to 535998	501204 to 535998	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		502200 to 534996	502200 to 534996	Middle	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		503202 to 534000	503202 to 534000	Middle	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		504200 to 532998	504200 to 532998	Middle	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full

		505200 to 531996	505200 to 531996	Middle	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		507204 to 529998	507204 to 529998	Middle	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		508200 to 528996	508200 to 528996	Middle	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		509202 to 528000	509202 to 528000	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	501204 to 535998	501204 to 535998	Low	20MHz	QPSK	1RB/ 0RB Offset
				Outer_ Full			
		505200 to 531996	505200 to 531996	High	20MHz	QPSK	1RB/ 50RB Offset
				Outer_ Full			
		509202 to 528000	509202 to 528000	Low	60MHz	QPSK	1RB/ 0RB Offset
				Outer_ Full			
		505200 to 531996	505200 to 531996	High	60MHz	QPSK	1RB/ 161RB Offset
				Outer_ Full			
509202 to 528000	509202 to 528000	Low	100MHz	QPSK	1RB/ 0RB Offset		
		Outer_ Full					
509202 to 528000	509202 to 528000	High	100MHz	QPSK	1RB/ 272RB Offset		
		Outer_ Full					
A	CONDUCTED EMISSION	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	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 n41 SRS MODE 1,2,3,4**

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	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK,	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	501204 to 535998	501204 to 535998	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		502200 to 534996	502200 to 534996	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		503202 to 534000	503202 to 534000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		504200 to 532998	504200 to 532998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		505200 to 531996	505200 to 531996	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		507204 to 529998	507204 to 529998	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		508200 to 528996	508200 to 528996	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		509202 to 528000	509202 to 528000	Low, Middle, High	100MHz	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 41 normal mode, Because it is a functionality of SA n41 with the same output power and supported bandwidths

**5G NR n66 MODE (SA\_n66/ DC\_2A\_n66/ DC\_5A\_n66/ DC\_7A\_n66/ DC\_12A\_n66/ DC\_13A\_n66/ DC\_14A\_n66/ DC\_48A\_n66/ DC\_71A\_n66)**

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	QPSK	1RB/ 0RB Offset



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		345000 to 353000	345000 to 353000	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset		
		346000 to 352000	346000 to 352000	Low, Middle, High	40MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB/ 0RB Offset		
A	FREQUENCY STABILITY	346000 to 352000	346000 to 352000	Middle	40MHz	QPSK	Outer_ Full		
A	PEAK TO AVERAGE RATIO	346000 to 352000	346000 to 352000	Low, Middle, High	20MHz	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		
		345000 to 353000	345000 to 353000	Middle	30MHz	Pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full		
		346000 to 352000	346000 to 352000	Middle	40MHz	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	1RB/ 24RB Offset		
		505008 to 532998	505008 to 532998	Low	20MHz	QPSK	1RB/ 0RB Offset		
				High	20MHz	QPSK	1RB/ 105RB Offset		
		508002 to 529998	508002 to 529998	Low	40MHz	QPSK	1RB/ 0RB Offset		
				High	40MHz	QPSK	1RB/ 215RB Offset		
		A	CONDUCTED EMISSION	342500 to 355500	342500 to 355500	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
				344000 to 354000	344000 to 354000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
346000 to 352000	346000 to 352000			Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset		
A	RADIATED EMISSION	342500 to 355500	342500 to 355500	Middle	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	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset		
		345000 to 353000	345000 to 353000	Middle	30MHz	QPSK	1RB/ 0RB Offset		



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		346000 to 352000	346000 to 352000	Middle	40MHz	QPSK	1RB/ 0RB Offset
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**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 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	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	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	134100 to 138100	134100 to 138100	Low, Middle, High	15MHz	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
A	BAND EDGE	133100 to 139100	133100 to 139100	Low	5MHz	QPSK	1RB/ 0RB Offset
							1RB/ 24RB Offset
							Outer_Full
				High	5MHz	QPSK	1RB/ 0RB Offset
							1RB/ 24RB Offset
							Outer_Full
		133600 to 138600	133600 to 138600	Low	10MHz	QPSK	1RB/ 0RB Offset
							1RB/ 51RB Offset
							Outer_Full
				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		
		High	15MHz	QPSK	1RB/ 0RB Offset		
					1RB/ 78RB Offset		
					Outer_Full		





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A	CONDUCTED EMISSION	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
A	RADIATED EMISSION	133100 to 139100	133100 to 139100	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		133600 to 138600	133600 to 138600	Middle	10MHz	QPSK	1RB/ 0RB Offset
		134100 to 138100	134100 to 138100	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\_n71.

**5G NR n77(Part27Q) MODE (SA\_n77/ DC\_2A\_n77/ DC\_5A\_n77/ DC\_7A\_n77/ DC\_12A\_n77/ DC\_13A\_n77/ DC\_14A\_n77/ DC\_41A\_n77/ DC\_66A\_n77) AND SRS MODE 1,2,3,4**

EUT CONFIGURE MODE	TEST 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	EIRP	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	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 n77(Part27Q).

3.SA n77(Part27Q) are covered by SA n78(Part27Q), Because it is a subset of SA n78(Part27Q) with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to SA n78(Part27Q).



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**5G NR n77(Part270) MODE (SA\_n77/ DC\_2A\_n77/ DC\_5A\_n77/ DC\_7A\_n77/ DC\_12A\_n77/ DC\_13A\_n77/ DC\_14A\_n77/ DC\_41A\_n77/ DC\_66A\_n77)**

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	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 664332	647670 to 664332	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		648336 to 663666	648336 to 663666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENCY STABILITY	650000 to 662000	650000 to 662000	Middle	100MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	650000 to 662000	650000 to 662000	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDTH	647334 to 664666	647334 to 664666	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		647670 to 664332	647670 to 664332	Middle	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		648000 to 664000	648000 to 664000	Middle	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		648336 to 663666	648336 to 663666	Middle	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		648668 to 663332	648668 to 663332	Middle	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		649334 to 662666	649334 to 662666	Middle	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	647334 to 664666	647334 to 664666	Low	20MHz	QPSK	1RB/ 0RB Offset
				High	20MHz	QPSK	1RB/ 50RB Offset
		648668 to 663332	648668 to 663332	Low	60MHz	QPSK	1RB/ 0RB Offset
				High	60MHz	QPSK	1RB/ 161RB Offset
		650000 to 662000	650000 to 662000	Low	100MHz	QPSK	1RB/ 0RB Offset
				High	100MHz	QPSK	1RB/ 272RB Offset
							Outer_ Full



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A	CONDUCTED EMISSION	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 664332	647670 to 664332	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		648336 to 663666	648336 to 663666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	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 n77(Part270) SRS MODE 1,2,3,4**

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	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 664332	647670 to 664332	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		648336 to 663666	648336 to 663666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	647334 to 664666	647334 to 664666	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		647670 to 664332	647670 to 664332	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		648000 to 664000	648000 to 664000	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		648336 to 663666	648336 to 663666	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		648668 to 663332	648668 to 663332	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset



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		649334 to 662666	649334 to 662666	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		650000 to 662000	650000 to 662000	Low, Middle, High	100MHz	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 77(Part27O) normal mode, Because it is a functionality of SA n77(Part27O) with the same output power and supported bandwidths

**5G NR Band n78(Part27Q) (SA\_n78/ DC\_1A\_n78/ DC\_2A\_n78/ DC\_4A\_n78/ DC\_5A\_n78/ DC\_12A\_n78/ DC\_13A\_n78/ DC\_26A\_n78/ DC\_38A\_n78/ DC\_41A\_n78/ DC\_66A\_n78/ DC\_71A\_n78)**

EUT CONFIGUR E MODE	TEST ITEM	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	EIRP	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	FREQUENC Y STABILITY	633334	633334	Middle	100MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	Outer_ Full
A	OCCUPIED BANDWIDT H	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		631002 to 635664	631002 to 635664	Low, Middle, High	30MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		633000 to 633666	633000 to 633666	Low, Middle, High	90MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		633334	633334	Middle	100MHz	Pi/2BPSK,QPSK, 16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND	630668 to 636000	630668 to 636000	Low	20MHz	QPSK	1RB/ 0RB Offset

	EDGE			High	20MHz	QPSK	Outer_Full 1RB/ 50RB Offset
				Outer_Full			
		632000 to 634666	632000 to 634666	Low	60MHz	QPSK	1RB/ 0RB Offset
				Outer_Full			
		633334	633334	High	60MHz	QPSK	1RB/ 161RB Offset
				Outer_Full			
633334	633334	Middle	100MHz	QPSK	1RB/ 0RB Offset		
		Outer_Full					
A	CONDUCTED EMISSION	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Middle	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Middle	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Middle	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Middle	60MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Middle	80MHz	QPSK	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Middle	90MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	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\_n78(Part27Q).



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5G NR Band n78(Part27Q) SRS MODE 1,2,3,4

EUT CONFIGUR E MODE	TEST ITEM	AVAILAB LE CP-OFDM CHANNE L	AVAILABL E DFT-S-OFD M CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(DFT-S- OFDM) (INCLUDE CP-OFDM)
A	EIRP	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Low, Middle, High	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Low, Middle, High	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Low, Middle, High	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Low, Middle, High	60MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Low, Middle, High	80MHz	QPSK	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Low, Middle, High	90MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle,	100MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
A	RADIATED EMISSION	630668 to 636000	630668 to 636000	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
		631002 to 635664	631002 to 635664	Middle	30MHz	QPSK	1RB/ 0RB Offset
		631334 to 635332	631334 to 635332	Middle	40MHz	QPSK	1RB/ 0RB Offset
		631668 to 634998	631668 to 634998	Middle	50MHz	QPSK	1RB/ 0RB Offset
		632000 to 634666	632000 to 634666	Middle	60MHz	QPSK	1RB/ 0RB Offset
		632668 to 634000	632668 to 634000	Middle	80MHz	QPSK	1RB/ 0RB Offset
		633000 to 633666	633000 to 633666	Middle	90MHz	QPSK	1RB/ 0RB Offset
		633334	633334	Middle	100MHz	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



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**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.6V/3.7V/4.2V By DC Supply	James Fu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC5V By Adapter	James Fu
BAND EDGE	23deg. C, 70%RH	DC 5V By Adapter	James Fu
CONDUCTED EMISSION	23deg. C, 70%RH	DC5V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 70%RH	DC5V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC5V By Adapter	James Fu



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## 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.(n7/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:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

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

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

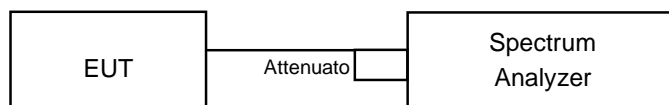
$P_{\text{Meas}}$  = measured transmitter output power or PSD, in dBm or dBW;

$G_{\text{T}}$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$L_{\text{C}}$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

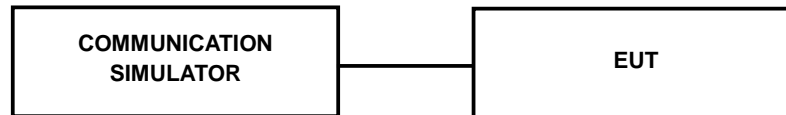
#### CONDUCTED POWER MEASUREMENT:

- 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  $\geq 1001$ .
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

AVERAGE CONDUCTED OUTPUT POWER (dBm)

5G SA  
N2

BW	MCS Index	RB Size	RB Offset	Low CH 370500	Mid CH 376000	High CH 381500
				Frequency 1852.5MHz	Frequency 1880MHz	Frequency 1907.5MHz
5M	CP-OFDM QPSK	1	1	21.53	21.55	21.46

BW	MCS Index	RB Size	RB Offset	Low CH 371000	Mid CH 376000	High CH 381000
				Frequency 1855MHz	Frequency 1880MHz	Frequency 1905MHz
10M	CP-OFDM QPSK	1	1	21.56	21.58	21.47

BW	MCS Index	RB Size	RB Offset	Low CH 371500	Mid CH 376000	High CH 380500
				Frequency 1857.5MHz	Frequency 1880MHz	Frequency 1902.5MHz
15M	CP-OFDM QPSK	1	1	21.55	21.59	21.45

BW	MCS Index	RB Size	RB Offset	Low CH 372000	Mid CH 376000	High CH 380000
				Frequency 1860MHz	Frequency 1880MHz	Frequency 1900MHz
20M	CP-OFDM QPSK	1	1	21.58	21.61	21.48



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 370500	Mid CH 376000	High CH 381500
				Frequency 1852.5MHz	Frequency 1880MHz	Frequency 1907.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.09	23.15	23.08

BW	MCS Index	RB Size	RB Offset	Low CH 371000	Mid CH 376000	High CH 381000
				Frequency 1855MHz	Frequency 1880MHz	Frequency 1905MHz
10M	DFT-s-OFDM QPSK	1	1	23.11	23.16	23.12

BW	MCS Index	RB Size	RB Offset	Low CH 371500	Mid CH 376000	High CH 380500
				Frequency 1857.5MHz	Frequency 1880MHz	Frequency 1902.5MHz
15M	DFT-s-OFDM QPSK	1	1	23.15	23.18	23.14



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 372000	Mid CH 376000	High CH 380000
				Frequency 1860MHz	Frequency 1880MHz	Frequency 1900MHz
20M	DFT-s-OFDM Pi/2 BPSK	1	1	23.12	23.16	23.09
		1	53	23.11	23.09	23.06
		1	104	23.09	23.06	23.00
		50	0	22.67	22.72	22.68
		50	28	23.16	23.13	23.07
		50	56	22.62	22.66	22.58
		100	0	22.66	22.76	22.62
	DFT-s-OFDM QPSK	1	1	23.26	23.27	23.21
		1	53	23.17	23.24	23.13
		1	104	23.11	23.20	23.11
		50	0	22.18	22.24	22.11
		50	28	23.16	23.21	23.20
		50	56	22.15	22.22	22.13
		100	0	22.15	22.24	22.13
	DFT-s-OFDM 16QAM	1	1	22.43	22.44	22.42
	DFT-s-OFDM 64QAM	1	1	20.78	20.88	20.74
	DFT-s-OFDM 256QAM	1	1	18.60	18.60	18.54



Test Report No.: W7L-P23100014RF12

**N5**

BW	MCS Index	RB Size	RB Offset	Low CH 165300	Mid CH 167300	High CH 169300
				Frequency 826.5MHz	Frequency 836.5MHz	Frequency 846.5MHz
5M	CP-OFDM QPSK	1	1	21.24	21.27	21.17

BW	MCS Index	RB Size	RB Offset	Low CH 165800	Mid CH 167300	High CH 168800
				Frequency 829MHz	Frequency 836.5MHz	Frequency 844MHz
10M	CP-OFDM QPSK	1	1	21.20	21.24	21.13

BW	MCS Index	RB Size	RB Offset	Low CH 166300	Mid CH 167300	High CH 168300
				Frequency 831.5MHz	Frequency 836.5MHz	Frequency 841.5MHz
15M	CP-OFDM QPSK	1	1	21.22	21.26	21.18

BW	MCS Index	RB Size	RB Offset	Low CH 166800	Mid CH 167300	High CH 167800
				Frequency 834MHz	Frequency 836.5MHz	Frequency 839MHz
20M	CP-OFDM QPSK	1	1	21.26	21.29	21.20



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 165300	Mid CH 167300	High CH 169300
				Frequency 826.5MHz	Frequency 836.5MHz	Frequency 846.5MHz
5M	DFT-s-OFDM QPSK	1	1	22.75	22.77	22.73

BW	MCS Index	RB Size	RB Offset	Low CH 165800	Mid CH 167300	High CH 168800
				Frequency 829MHz	Frequency 836.5MHz	Frequency 844MHz
10M	DFT-s-OFDM QPSK	1	1	22.68	22.73	22.70

BW	MCS Index	RB Size	RB Offset	Low CH 166300	Mid CH 167300	High CH 168300
				Frequency 831.5MHz	Frequency 836.5MHz	Frequency 841.5MHz
15M	DFT-s-OFDM QPSK	1	1	22.72	22.76	22.73





Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 166800	Mid CH 167300	High CH 167800
				Frequency 834MHz	Frequency 836.5MHz	Frequency 839MHz
20M	DFT-s-OFDM Pi/2 BPSK	1	1	22.79	22.83	22.71
		1	53	22.85	22.83	22.75
		1	104	22.78	22.75	22.64
		50	0	22.31	22.36	22.27
		50	28	22.81	22.78	22.67
		50	56	22.22	22.26	22.13
		100	0	22.28	22.38	22.19
	DFT-s-OFDM QPSK	1	1	22.84	22.89	22.78
		1	53	22.80	22.87	22.71
		1	104	22.68	22.77	22.63
		50	0	21.84	21.90	21.72
		50	28	22.76	22.81	22.75
		50	56	21.69	21.76	21.62
		100	0	21.76	21.85	21.69
	DFT-s-OFDM 16QAM	1	1	21.76	21.77	21.70
	DFT-s-OFDM 64QAM	1	1	20.44	20.54	20.35
	DFT-s-OFDM 256QAM	1	1	18.07	18.07	17.96



Test Report No.: W7L-P23100014RF12

**N7**

BW	MCS Index	RB Size	RB Offset	Low CH 500500	Mid CH 507000	High CH 513500
				Frequency 2502.5MHz	Frequency 2535MHz	Frequency 2567.5MHz
5M	CP-OFDM QPSK	1	1	21.56	21.65	21.37

BW	MCS Index	RB Size	RB Offset	Low CH 501000	Mid CH 507000	High CH 513000
				Frequency 2505MHz	Frequency 2535MHz	Frequency 2565MHz
10M	CP-OFDM QPSK	1	1	21.54	21.60	21.32

BW	MCS Index	RB Size	RB Offset	Low CH 501500	Mid CH 507000	High CH 512500
				Frequency 2507.5MHz	Frequency 2535MHz	Frequency 2562.5MHz
15M	CP-OFDM QPSK	1	1	21.53	21.62	21.35

BW	MCS Index	RB Size	RB Offset	Low CH 502000	Mid CH 507000	High CH 512000
				Frequency 2510MHz	Frequency 2535MHz	Frequency 2560MHz
20M	CP-OFDM QPSK	1	1	21.56	21.67	21.38



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 500500	Mid CH 507000	High CH 513500
				Frequency 2502.5MHz	Frequency 2535MHz	Frequency 2567.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.00	23.05	22.98

BW	MCS Index	RB Size	RB Offset	Low CH 501000	Mid CH 507000	High CH 513000
				Frequency 2505MHz	Frequency 2535MHz	Frequency 2565MHz
10M	DFT-s-OFDM QPSK	1	1	22.95	22.99	22.95

BW	MCS Index	RB Size	RB Offset	Low CH 501500	Mid CH 507000	High CH 512500
				Frequency 2507.5MHz	Frequency 2535MHz	Frequency 2562.5MHz
15M	DFT-s-OFDM QPSK	1	1	23.00	23.02	22.88



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 502000	Mid CH 507000	High CH 512000
				Frequency 2510MHz	Frequency 2535MHz	Frequency 2560MHz
20M	DFT-s-OFDM Pi/2 BPSK	1	1	23.04	23.06	22.89
		1	53	22.99	22.94	22.78
		1	104	22.95	22.98	22.84
		50	0	22.57	22.52	22.36
		50	28	22.99	23.01	22.83
		50	56	22.41	22.49	22.25
		100	0	22.57	22.55	22.39
	DFT-s-OFDM QPSK	1	1	23.10	23.15	22.94
		1	53	22.95	23.02	22.83
		1	104	22.93	22.97	22.74
		50	0	22.07	22.10	21.99
		50	28	23.04	23.09	22.90
		50	56	21.96	22.03	21.82
		100	0	22.06	22.05	21.93
	DFT-s-OFDM 16QAM	1	1	22.05	22.13	21.89
	DFT-s-OFDM 64QAM	1	1	20.78	20.76	20.60
	DFT-s-OFDM 256QAM	1	1	18.29	18.37	18.13



Test Report No.: W7L-P23100014RF12

**N12**

BW	MCS Index	RB Size	RB Offset	Low CH 140300	Mid CH 141500	High CH 142700
				Frequency 701.5MHz	Frequency 707.5MHz	Frequency 713.5MHz
5M	CP-OFDM QPSK	1	1	20.93	21.01	20.97

BW	MCS Index	RB Size	RB Offset	Low CH 140800	Mid CH 141500	High CH 142200
				Frequency 704MHz	Frequency 707.5MHz	Frequency 711MHz
10M	CP-OFDM QPSK	1	1	20.90	20.98	20.95

BW	MCS Index	RB Size	RB Offset	Low CH 141300	Mid CH 141500	High CH 141700
				Frequency 706.5MHz	Frequency 707.5MHz	Frequency 708.5MHz
15M	CP-OFDM QPSK	1	1	20.94	21.03	20.99



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 140300	Mid CH 141500	High CH 142700
				Frequency 701.5MHz	Frequency 707.5MHz	Frequency 713.5MHz
5M	DFT-s-OFDM QPSK	1	1	22.55	22.59	22.56

BW	MCS Index	RB Size	RB Offset	Low CH 140800	Mid CH 141500	High CH 142200
				Frequency 704MHz	Frequency 707.5MHz	Frequency 711MHz
10M	DFT-s-OFDM QPSK	1	1	22.51	22.58	22.55

BW	MCS Index	RB Size	RB Offset	Low CH 141300	Mid CH 141500	High CH 141700
				Frequency 706.5MHz	Frequency 707.5MHz	Frequency 708.5MHz
15M	DFT-s-OFDM Pi/2 BPSK	1	1	22.63	22.67	22.60
		1	39	22.63	22.64	22.56
		1	77	22.58	22.55	22.54
		36	0	22.11	22.07	22.03
		36	19	22.58	22.62	22.60
		36	39	21.98	21.94	21.90
		75	0	22.16	22.19	22.13
	DFT-s-OFDM QPSK	1	1	22.61	22.70	22.58
		1	39	22.65	22.64	22.60
		1	77	22.50	22.56	22.47
		36	0	21.52	21.60	21.53
		36	19	22.61	22.66	22.55
		36	39	21.52	21.56	21.57
		75	0	21.71	21.77	21.70
	DFT-s-OFDM 16QAM	1	1	21.48	21.56	21.47
	DFT-s-OFDM 64QAM	1	1	20.23	20.23	20.23
DFT-s-OFDM 256QAM	1	1	17.72	17.81	17.69	



Test Report No.: W7L-P23100014RF12

**N25**

BW	MCS Index	RB Size	RB Offset	Low CH 370500	Mid CH 376500	High CH 382500
				Frequency 1852.5MHz	Frequency 1882.5MHz	Frequency 1912.5MHz
5M	CP-OFDM QPSK	1	1	21.53	21.63	21.60

BW	MCS Index	RB Size	RB Offset	Low CH 371000	Mid CH 376500	High CH 382000
				Frequency 1855MHz	Frequency 1882.5MHz	Frequency 1910MHz
10M	CP-OFDM QPSK	1	1	21.59	21.76	21.66

BW	MCS Index	RB Size	RB Offset	Low CH 371500	Mid CH 376500	High CH 381500
				Frequency 1857.5MHz	Frequency 1882.5MHz	Frequency 1907.5MHz
15M	CP-OFDM QPSK	1	1	21.72	21.66	21.71

BW	MCS Index	RB Size	RB Offset	Low CH 372000	Mid CH 376500	High CH 381000
				Frequency 1860MHz	Frequency 1882.5MHz	Frequency 1905MHz
20M	CP-OFDM QPSK	1	1	21.75	21.79	21.76

BW	MCS Index	RB Size	RB Offset	Low CH 372500	Mid CH 376500	High CH 380500
				Frequency 1862.5MHz	Frequency 1882.5MHz	Frequency 1902.5MHz
25M	CP-OFDM QPSK	1	1	21.77	21.81	21.85

BW	MCS Index	RB Size	RB Offset	Low CH 373000	Mid CH 376500	High CH 380000
				Frequency 1865MHz	Frequency 1882.5MHz	Frequency 1900MHz
30M	CP-OFDM QPSK	1	1	21.83	21.85	21.90

BW	MCS Index	RB Size	RB Offset	Low CH 374000	Mid CH 376500	High CH 379000
				Frequency 1870MHz	Frequency 1882.5MHz	Frequency 1895MHz
40M	CP-OFDM QPSK	1	1	21.82	21.88	21.92



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 370500	Mid CH 376500	High CH 382500
				Frequency 1852.5MHz	Frequency 1882.5MHz	Frequency 1912.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.21	23.22	23.18

BW	MCS Index	RB Size	RB Offset	Low CH 371000	Mid CH 376500	High CH 382000
				Frequency 1855MHz	Frequency 1882.5MHz	Frequency 1910MHz
10M	DFT-s-OFDM QPSK	1	1	23.27	23.30	23.30

BW	MCS Index	RB Size	RB Offset	Low CH 371500	Mid CH 376500	High CH 381500
				Frequency 1857.5MHz	Frequency 1882.5MHz	Frequency 1907.5MHz
15M	DFT-s-OFDM QPSK	1	1	23.09	23.18	23.25

BW	MCS Index	RB Size	RB Offset	Low CH 372000	Mid CH 376500	High CH 381000
				Frequency 1860MHz	Frequency 1882.5MHz	Frequency 1905MHz
20M	DFT-s-OFDM QPSK	1	1	23.22	23.25	23.31

BW	MCS Index	RB Size	RB Offset	Low CH 372500	Mid CH 376500	High CH 380500
				Frequency 1862.5MHz	Frequency 1882.5MHz	Frequency 1902.5MHz
25M	DFT-s-OFDM QPSK	1	1	23.25	23.29	23.11

BW	MCS Index	RB Size	RB Offset	Low CH 373000	Mid CH 376500	High CH 380000
				Frequency 1865MHz	Frequency 1882.5MHz	Frequency 1900MHz
30M	DFT-s-OFDM QPSK	1	1	23.34	23.38	23.31





Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 374000	Mid CH 376500	High CH 379000
				Frequency 1870MHz	Frequency 1882.5MHz	Frequency 1895MHz
40M	DFT-s-OFDM Pi/2 BPSK	1	1	23.25	23.28	23.23
		1	108	23.34	23.38	23.28
		1	214	23.36	23.33	23.23
		108	0	22.79	22.78	22.87
		108	54	23.31	23.22	23.26
		108	108	22.81	22.86	22.87
		216	0	22.85	22.78	22.86
	DFT-s-OFDM QPSK	1	1	23.39	23.41	23.36
		1	108	23.28	23.32	23.35
		1	214	23.38	23.38	23.33
		108	0	22.32	22.34	22.41
		108	54	23.37	23.26	23.33
		108	108	22.34	22.39	22.38
		216	0	22.39	22.33	22.37
	DFT-s-OFDM 16QAM	1	1	22.17	22.19	22.25
	DFT-s-OFDM 64QAM	1	1	20.90	21.00	20.97
	DFT-s-OFDM 256QAM	1	1	19.02	19.06	19.06



Test Report No.: W7L-P23100014RF12

**N30**

BW	MCS Index	RB Size	RB Offset	Low CH 461500	Mid CH 462000	High CH 462500
				Frequency 2307.5MHz	Frequency 2310MHz	Frequency 2312.5MHz
5M	CP-OFDM QPSK	1	1	21.92	21.95	21.97

BW	MCS Index	RB Size	RB Offset	/	Mid CH 462000	/
				/	Frequency 2310MHz	/
10M	CP-OFDM QPSK	1	1	/	21.99	/



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 461500	Mid CH 462000	High CH 462500
				Frequency 2307.5MHz	Frequency 2310MHz	Frequency 2312.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.25	23.27	23.35

BW	MCS Index	RB Size	RB Offset	/	Mid CH 462000	/
				/	Frequency 2310MHz	/
10M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.37	/
		1	26	/	23.35	/
		1	50	/	23.31	/
		25	0	/	22.81	/
		25	14	/	23.35	/
		25	27	/	22.86	/
		50	0	/	22.89	/
	DFT-s-OFDM QPSK	1	1	/	23.40	/
		1	26	/	23.38	/
		1	50	/	23.36	/
		25	0	/	22.33	/
		25	14	/	23.36	/
		25	27	/	22.40	/
		50	0	/	22.43	/
	DFT-s-OFDM 16QAM	1	1	/	22.33	/
	DFT-s-OFDM 64QAM	1	1	/	21.03	/
	DFT-s-OFDM 256QAM	1	1	/	18.58	/



Test Report No.: W7L-P23100014RF12

**N38**

BW	MCS Index	RB Size	RB Offset	Low CH 516504	Mid CH 519000	High CH 521496
				Frequency 2582.52MHz	Frequency 2595MHz	Frequency 2607.48MHz
20M	CP-OFDM QPSK	1	1	21.43	21.32	21.37

BW	MCS Index	RB Size	RB Offset	Low CH 517002	Mid CH 519000	High CH 520998
				Frequency 2585.01MHz	Frequency 2595MHz	Frequency 2604.99MHz
30M	CP-OFDM QPSK	1	1	21.52	21.40	21.43

BW	MCS Index	RB Size	RB Offset	Low CH 518004	Mid CH 519000	High CH 519996
				Frequency 2590.02MHz	Frequency 2595MHz	Frequency 2599.98MHz
40M	CP-OFDM QPSK	1	1	21.58	21.41	21.46



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 516504	Mid CH 519000	High CH 521496
				Frequency 2582.52MHz	Frequency 2595MHz	Frequency 2607.48MHz
20M	DFT-s-OFDM QPSK	1	1	23.00	23.05	22.97

BW	MCS Index	RB Size	RB Offset	Low CH 517002	Mid CH 519000	High CH 520998
				Frequency 2585.01MHz	Frequency 2595MHz	Frequency 2604.99MHz
30M	DFT-s-OFDM QPSK	1	1	23.03	23.07	23.02

BW	MCS Index	RB Size	RB Offset	Low CH 518004	Mid CH 519000	High CH 519996
				Frequency 2590.02MHz	Frequency 2595MHz	Frequency 2599.98MHz
40M	DFT-s-OFDM Pi/2 BPSK	1	1	22.99	22.92	22.90
		1	53	22.90	22.79	22.77
		1	104	22.91	22.84	22.78
		50	0	22.46	22.43	22.40
		50	28	22.93	22.80	22.82
		50	56	22.33	22.34	22.34
		100	0	22.48	22.32	22.31
	DFT-s-OFDM QPSK	1	1	23.09	23.05	23.03
		1	53	22.99	22.88	22.86
		1	104	22.97	22.90	22.87
		50	0	21.97	21.96	21.95
		50	28	22.93	22.83	22.80
		50	56	21.86	21.83	21.81
		100	0	21.95	21.84	21.81
	DFT-s-OFDM 16QAM	1	1	22.03	21.90	21.91
	DFT-s-OFDM 64QAM	1	1	20.80	20.60	20.63
DFT-s-OFDM 256QAM	1	1	18.73	18.62	18.66	



Test Report No.: W7L-P23100014RF12

**N41**

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	CP-OFDM QPSK	1	1	21.39	21.61	21.57

BW	MCS Index	RB Size	RB Offset	Low CH 502200	Mid CH 518598	High CH 534996
				Frequency 2511MHz	Frequency 2592.99MHz	Frequency 2674.98MHz
30M	CP-OFDM QPSK	1	1	21.42	21.56	21.51

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	CP-OFDM QPSK	1	1	21.47	21.58	21.53

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	CP-OFDM QPSK	1	1	21.44	21.49	21.48



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	CP-OFDM QPSK	1	1	21.39	21.53	21.55

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	CP-OFDM QPSK	1	1	21.43	21.57	21.56

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	CP-OFDM QPSK	1	1	21.48	21.56	21.51

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	CP-OFDM QPSK	1	1	21.51	21.55	21.46



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	DFT-s-OFDM QPSK	1	1	22.94	23.02	22.98

BW	MCS Index	RB Size	RB Offset	Low CH 502200	Mid CH 518598	High CH 534996
				Frequency 2511MHz	Frequency 2592.99MHz	Frequency 2674.98MHz
30M	DFT-s-OFDM QPSK	1	1	23.00	23.11	23.07

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	DFT-s-OFDM QPSK	1	1	22.94	23.02	22.97

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	DFT-s-OFDM QPSK	1	1	23.02	23.09	23.01

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	DFT-s-OFDM QPSK	1	1	22.91	22.95	22.93

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	DFT-s-OFDM QPSK	1	1	22.98	23.03	22.97

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	DFT-s-OFDM QPSK	1	1	23.01	23.05	23.01





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BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	23.06	22.99	22.92
		1	137	22.84	22.74	22.66
		1	271	22.76	22.62	22.61
		135	0	22.46	22.31	22.27
		135	69	22.87	22.80	22.78
		135	138	22.34	22.19	22.15
		270	0	22.37	22.29	22.23
	DFT-s-OFDM QPSK	1	1	23.10	23.08	22.96
		1	137	22.99	22.87	22.83
		1	271	22.76	22.71	22.62
		135	0	21.92	21.89	21.82
		135	69	22.91	22.85	22.74
		135	138	21.74	21.67	21.68
		270	0	21.86	21.81	21.74
	DFT-s-OFDM 16QAM	1	1	21.96	21.93	21.84
	DFT-s-OFDM 64QAM	1	1	20.69	20.58	20.58
	DFT-s-OFDM 256QAM	1	1	18.70	18.68	18.56



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**N66**

BW	MCS Index	RB Size	RB Offset	Low CH 342500	Mid CH 349000	High CH 355500
				Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz
5M	CP-OFDM QPSK	1	1	22.08	22.00	21.89

BW	MCS Index	RB Size	RB Offset	Low CH 343000	Mid CH 349000	High CH 355000
				Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz
10M	CP-OFDM QPSK	1	1	21.88	21.99	21.83

BW	MCS Index	RB Size	RB Offset	Low CH 343500	Mid CH 349000	High CH 354500
				Frequency 1717.5MHz	Frequency 1745MHz	Frequency 1772.5MHz
15M	CP-OFDM QPSK	1	1	21.92	21.94	21.94

BW	MCS Index	RB Size	RB Offset	Low CH 344000	Mid CH 349000	High CH 354000
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz
20M	CP-OFDM QPSK	1	1	21.98	21.92	21.92

BW	MCS Index	RB Size	RB Offset	Low CH 345000	Mid CH 349000	High CH 353000
				Frequency 1725MHz	Frequency 1745MHz	Frequency 1765MHz
30M	CP-OFDM QPSK	1	1	22.00	21.86	21.97

BW	MCS Index	RB Size	RB Offset	Low CH 346000	Mid CH 349000	High CH 352000
				Frequency 1730MHz	Frequency 1745MHz	Frequency 1760MHz
40M	CP-OFDM QPSK	1	1	22.04	21.94	21.93



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BW	MCS Index	RB Size	RB Offset	Low CH 342500	Mid CH 349000	High CH 355500
				Frequency 1712.5MHz	Frequency 1745MHz	Frequency 1777.5MHz
5M	DFT-s-OFDM QPSK	1	1	23.41	23.31	23.33

BW	MCS Index	RB Size	RB Offset	Low CH 343000	Mid CH 349000	High CH 355000
				Frequency 1715MHz	Frequency 1745MHz	Frequency 1775MHz
10M	DFT-s-OFDM QPSK	1	1	23.33	23.28	23.27

BW	MCS Index	RB Size	RB Offset	Low CH 343500	Mid CH 349000	High CH 354500
				Frequency 1717.5MHz	Frequency 1745MHz	Frequency 1772.5MHz
15M	DFT-s-OFDM QPSK	1	1	23.37	23.32	23.29

BW	MCS Index	RB Size	RB Offset	Low CH 344000	Mid CH 349000	High CH 354000
				Frequency 1720MHz	Frequency 1745MHz	Frequency 1770MHz
20M	DFT-s-OFDM QPSK	1	1	23.40	23.37	23.46

BW	MCS Index	RB Size	RB Offset	Low CH 345000	Mid CH 349000	High CH 353000
				Frequency 1725MHz	Frequency 1745MHz	Frequency 1765MHz
30M	DFT-s-OFDM QPSK	1	1	23.42	23.37	23.42



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BW	MCS Index	RB Size	RB Offset	Low CH 346000	Mid CH 349000	High CH 352000
				Frequency 1730MHz	Frequency 1745MHz	Frequency 1760MHz
40M	DFT-s-OFDM Pi/2 BPSK	1	1	23.36	23.25	23.30
		1	108	23.34	23.26	23.35
		1	214	23.42	23.35	23.32
		108	0	22.77	22.70	22.75
		108	54	23.41	23.32	23.39
		108	108	22.96	22.85	22.90
		216	0	22.90	22.82	22.91
	DFT-s-OFDM QPSK	1	1	23.47	23.35	23.45
		1	108	23.43	23.41	23.43
		1	214	23.37	23.35	23.45
		108	0	22.30	22.28	22.30
		108	54	23.44	23.35	23.42
		108	108	22.49	22.38	22.43
		216	0	22.45	22.37	22.46
	DFT-s-OFDM 16QAM	1	1	22.35	22.28	22.25
	DFT-s-OFDM 64QAM	1	1	21.04	20.95	21.00
	DFT-s-OFDM 256QAM	1	1	19.09	18.98	19.05



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**N71**

BW	MCS Index	RB Size	RB Offset	Low CH 133100	Mid CH 136100	High CH 139100
				Frequency 665.5 MHz	Frequency 680.5 MHz	Frequency 695.5 MHz
5M	CP-OFDM QPSK	1	1	21.48	21.53	21.39

BW	MCS Index	RB Size	RB Offset	Low CH 133600	Mid CH 136100	High CH 138600
				Frequency 668 MHz	Frequency 680.5 MHz	Frequency 693 MHz
10M	CP-OFDM QPSK	1	1	21.50	21.54	21.41

BW	MCS Index	RB Size	RB Offset	Low CH 134100	Mid CH 136100	High CH 138100
				Frequency 670.5 MHz	Frequency 680.5 MHz	Frequency 690.5 MHz
15M	CP-OFDM QPSK	1	1	21.52	21.58	21.44



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BW	MCS Index	RB Size	RB Offset	Low CH 133100	Mid CH 136100	High CH 139100
				Frequency 665.5 MHz	Frequency 680.5 MHz	Frequency 695.5 MHz
5M	DFT-s-OFDM QPSK	1	1	23.01	22.96	22.92

BW	MCS Index	RB Size	RB Offset	Low CH 133600	Mid CH 136100	High CH 138600
				Frequency 668 MHz	Frequency 680.5 MHz	Frequency 693 MHz
10M	DFT-s-OFDM QPSK	1	1	23.00	23.03	22.95

BW	MCS Index	RB Size	RB Offset	Low CH 134100	Mid CH 136100	High CH 138100
				Frequency 670.5 MHz	Frequency 680.5 MHz	Frequency 690.5 MHz
15M	DFT-s-OFDM Pi/2 BPSK	1	1	23.01	23.07	22.88
		1	37	22.96	22.94	22.81
		1	74	22.85	22.93	22.72
		36	0	22.51	22.52	22.36
		36	19	22.90	22.89	22.71
		36	39	22.26	22.28	22.14
		75	0	22.46	22.49	22.23
	DFT-s-OFDM QPSK	1	1	23.06	23.09	22.89
		1	37	23.00	22.99	22.83
		1	74	22.89	22.87	22.74
		36	0	21.97	22.05	21.84
		36	19	22.95	22.93	22.80
		36	39	21.78	21.86	21.65
		75	0	21.95	21.96	21.80
	DFT-s-OFDM 16QAM	1	1	22.00	21.99	21.81
	DFT-s-OFDM 64QAM	1	1	20.62	20.64	20.50
DFT-s-OFDM 256QAM	1	1	18.23	18.26	18.00	



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**N77(Part 27Q)**

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	1	21.57	21.80	21.81

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	CP-OFDM QPSK	1	1	21.59	21.77	21.70

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	1	21.55	21.83	21.74

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	1	21.58	21.69	21.64

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	1	21.62	21.71	21.68

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	1	21.61	21.73	21.79

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	1	/	21.79	/



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BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	1	22.89	23.00	23.05

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	DFT-s-OFDM QPSK	1	1	23.02	23.05	23.11

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	1	22.98	23.07	23.10

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	1	23.03	23.15	23.09

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	1	23.01	23.07	23.10

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	1	23.05	23.07	23.15





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BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.12	/
		1	137	/	22.82	/
		1	271	/	22.91	/
		135	0	/	22.46	/
		135	69	/	22.80	/
		135	138	/	22.41	/
		270	0	/	22.41	/
	DFT-s-OFDM QPSK	1	1	/	23.16	/
		1	137	/	22.73	/
		1	271	/	22.84	/
		135	0	/	22.28	/
		135	69	/	22.69	/
		135	138	/	22.01	/
		270	0	/	21.98	/
	DFT-s-OFDM 16QAM	1	1	/	22.17	/
	DFT-s-OFDM 64QAM	1	1	/	21.08	/
	DFT-s-OFDM 256QAM	1	1	/	19.06	/



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**N77(Part 270)**

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	CP-OFDM QPSK	1	1	21.44	21.64	21.55

BW	MCS Index	RB Size	RB Offset	Low CH 647670	Mid CH 656000	High CH 664332
				Frequency 3715.05MHz	Frequency 3840MHz	Frequency 3964.98MHz
30M	CP-OFDM QPSK	1	1	21.46	21.59	21.53

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	CP-OFDM QPSK	1	1	21.38	21.62	21.60

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	CP-OFDM QPSK	1	1	21.40	21.59	21.43

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	CP-OFDM QPSK	1	1	21.46	21.57	21.53

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	CP-OFDM QPSK	1	1	21.42	21.60	21.57

BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	CP-OFDM QPSK	1	1	21.48	21.66	21.62



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BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	DFT-s-OFDM QPSK	1	1	23.08	23.22	23.28

BW	MCS Index	RB Size	RB Offset	Low CH 647670	Mid CH 656000	High CH 664332
				Frequency 3715.05MHz	Frequency 3840MHz	Frequency 3964.98MHz
30M	DFT-s-OFDM QPSK	1	1	23.16	23.11	23.25

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	DFT-s-OFDM QPSK	1	1	23.14	23.09	23.30

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	DFT-s-OFDM QPSK	1	1	23.10	23.19	23.18

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	DFT-s-OFDM QPSK	1	1	23.15	23.22	23.21

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	DFT-s-OFDM QPSK	1	1	23.18	23.24	23.28



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BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	22.98	23.13	23.13
		1	137	23.09	23.26	23.28
		1	271	23.07	23.21	23.19
		135	0	22.56	22.69	22.79
		135	69	23.15	23.28	23.30
		135	138	22.57	22.72	22.72
		270	0	22.59	22.76	22.78
	DFT-s-OFDM QPSK	1	1	23.22	23.30	23.35
		1	137	23.19	23.27	23.34
		1	271	23.14	23.28	23.26
		135	0	22.09	22.27	22.24
		135	69	23.16	23.24	23.29
		135	138	22.10	22.25	22.25
		270	0	22.10	22.27	22.29
	DFT-s-OFDM 16QAM	1	1	22.03	22.17	22.15
	DFT-s-OFDM 64QAM	1	1	20.74	20.87	20.97
	DFT-s-OFDM 256QAM	1	1	18.72	18.89	18.91



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VERITAS

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**N78(Part 27Q)**

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	1	21.49	21.63	21.74

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	CP-OFDM QPSK	1	1	21.52	21.60	21.70

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	1	21.57	21.62	21.81

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	1	21.52	21.58	21.75



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BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	1	21.53	21.52	21.63

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	1	21.52	21.55	21.74

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	CP-OFDM QPSK	1	1	21.55	21.61	21.73

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	1	/	21.64	/



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BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	1	22.99	23.13	23.09

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	DFT-s-OFDM QPSK	1	1	23.09	23.05	23.12

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	1	23.03	23.09	23.17

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	1	23.00	23.15	23.14

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	1	23.07	23.24	23.26

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	1	23.01	23.19	23.17

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	DFT-s-OFDM QPSK	1	1	23.05	23.23	23.25



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BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.14	/
		1	137	/	22.94	/
		1	271	/	22.83	/
		135	0	/	22.58	/
		135	69	/	22.96	/
		135	138	/	22.45	/
		270	0	/	22.46	/
	DFT-s-OFDM QPSK	1	1	/	23.27	/
		1	137	/	23.01	/
		1	271	/	22.94	/
		135	0	/	22.13	/
		135	69	/	22.97	/
		135	138	/	21.92	/
		270	0	/	21.95	/
	DFT-s-OFDM 16QAM	1	1	/	22.17	/
	DFT-s-OFDM 64QAM	1	1	/	20.91	/
	DFT-s-OFDM 256QAM	1	1	/	18.86	/





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VERITAS

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5G SRS

ANT2:

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BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	CP-OFDM QPSK	1	1	21.40	21.60	21.55

BW	MCS Index	RB Size	RB Offset	Low CH 502200	Mid CH 518598	High CH 534996
				Frequency 2511MHz	Frequency 2592.99MHz	Frequency 2674.98MHz
30M	CP-OFDM QPSK	1	1	21.44	21.50	21.53

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	CP-OFDM QPSK	1	1	21.50	21.57	21.50

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	CP-OFDM QPSK	1	1	21.43	21.49	21.46



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BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	CP-OFDM QPSK	1	1	21.40	21.50	21.47

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	CP-OFDM QPSK	1	1	21.41	21.55	21.51

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	CP-OFDM QPSK	1	1	21.48	21.50	21.44

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	CP-OFDM QPSK	1	1	21.50	21.52	21.49



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	DFT-s-OFDM QPSK	1	1	22.96	22.98	23.00

BW	MCS Index	RB Size	RB Offset	Low CH 502200	Mid CH 518598	High CH 534996
				Frequency 2511MHz	Frequency 2592.99MHz	Frequency 2674.98MHz
30M	DFT-s-OFDM QPSK	1	1	22.99	23.05	23.02

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	DFT-s-OFDM QPSK	1	1	22.97	23.00	22.99

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	DFT-s-OFDM QPSK	1	1	22.99	23.01	23.00

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	DFT-s-OFDM QPSK	1	1	22.93	22.93	22.90

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	DFT-s-OFDM QPSK	1	1	23.00	22.99	22.95

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	DFT-s-OFDM QPSK	1	1	22.98	23.00	22.96



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	23.02	22.97	22.94
		1	137	22.89	22.82	22.80
		1	271	22.78	22.67	22.65
		135	0	22.46	22.40	22.36
		135	69	22.85	22.73	22.72
		135	138	22.39	22.31	22.29
		270	0	22.45	22.38	22.29
	DFT-s-OFDM QPSK	1	1	23.07	22.96	22.93
		1	137	23.01	22.94	22.91
		1	271	22.89	22.76	22.76
		135	0	21.90	21.83	21.75
		135	69	22.83	22.70	22.76
		135	138	21.70	21.62	21.60
		270	0	21.85	21.78	21.76
	DFT-s-OFDM 16QAM	1	1	21.93	21.82	21.80
	DFT-s-OFDM 64QAM	1	1	20.66	20.60	20.54
	DFT-s-OFDM 256QAM	1	1	18.73	18.65	18.63



Test Report No.: W7L-P23100014RF12

ANT3:  
N41

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	CP-OFDM QPSK	1	1	21.36	21.52	21.51

BW	MCS Index	RB Size	RB Offset	Low CH 502200	Mid CH 518598	High CH 534996
				Frequency 2511MHz	Frequency 2592.99MHz	Frequency 2674.98MHz
30M	CP-OFDM QPSK	1	1	21.41	21.45	21.47

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	CP-OFDM QPSK	1	1	21.52	21.56	21.53

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	CP-OFDM QPSK	1	1	21.41	21.46	21.48



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	CP-OFDM QPSK	1	1	21.40	21.51	21.49

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	CP-OFDM QPSK	1	1	21.40	21.54	21.53

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	CP-OFDM QPSK	1	1	21.48	21.51	21.46

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	CP-OFDM QPSK	1	1	21.49	21.51	21.45



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	DFT-s-OFDM QPSK	1	1	22.92	22.91	23.00

BW	MCS Index	RB Size	RB Offset	Low CH 502200	Mid CH 518598	High CH 534996
				Frequency 2511MHz	Frequency 2592.99MHz	Frequency 2674.98MHz
30M	DFT-s-OFDM QPSK	1	1	23.50	23.01	23.03

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	DFT-s-OFDM QPSK	1	1	22.92	22.95	22.91

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	DFT-s-OFDM QPSK	1	1	22.94	23.00	23.00

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	DFT-s-OFDM QPSK	1	1	22.93	22.91	22.90

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	DFT-s-OFDM QPSK	1	1	23.01	22.95	22.93

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	DFT-s-OFDM QPSK	1	1	22.99	23.02	22.91



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	23.03	22.99	22.96
		1	137	22.88	22.80	22.73
		1	271	22.80	22.61	22.57
		135	0	22.52	22.39	22.34
		135	69	22.86	22.66	22.64
		135	138	22.41	22.28	22.23
		270	0	22.47	22.36	22.22
	DFT-s-OFDM QPSK	1	1	23.06	22.95	22.87
		1	137	22.98	22.92	22.83
		1	271	22.90	22.68	22.72
		135	0	21.87	21.81	21.67
		135	69	22.86	22.69	22.75
		135	138	21.71	21.59	21.54
		270	0	21.80	21.76	21.69
	DFT-s-OFDM 16QAM	1	1	21.90	21.76	21.72
	DFT-s-OFDM 64QAM	1	1	20.69	20.59	20.52
	DFT-s-OFDM 256QAM	1	1	18.71	18.65	18.55





Test Report No.: W7L-P23100014RF12

**ANT4:  
N77(Part 27Q)**

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	1	21.57	21.80	21.81

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	CP-OFDM QPSK	1	1	21.59	21.77	21.70

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	1	21.55	21.83	21.74

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	1	21.58	21.69	21.64

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	1	21.62	21.71	21.68

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	1	21.61	21.73	21.79

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	1	/	21.77	/



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	1	22.90	23.03	23.05

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	DFT-s-OFDM QPSK	1	1	23.01	23.04	23.10

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	1	22.99	23.05	23.13

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	1	23.05	23.14	23.07

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	1	23.00	23.07	23.10

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	1	23.04	23.06	23.17



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.11	/
		1	137	/	22.75	/
		1	271	/	22.88	/
		135	0	/	22.44	/
		135	69	/	22.74	/
		135	138	/	22.39	/
		270	0	/	22.33	/
	DFT-s-OFDM QPSK	1	1	/	23.14	/
		1	137	/	22.65	/
		1	271	/	22.81	/
		135	0	/	22.26	/
		135	69	/	22.63	/
		135	138	/	22.00	/
		270	0	/	21.93	/
	DFT-s-OFDM 16QAM	1	1	/	22.16	/
	DFT-s-OFDM 64QAM	1	1	/	21.03	/
	DFT-s-OFDM 256QAM	1	1	/	18.98	/



Test Report No.: W7L-P23100014RF12

**N77(Part 270)**

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	CP-OFDM QPSK	1	1	21.49	21.61	21.56

BW	MCS Index	RB Size	RB Offset	Low CH 647670	Mid CH 656000	High CH 664332
				Frequency 3715.05MHz	Frequency 3840MHz	Frequency 3964.98MHz
30M	CP-OFDM QPSK	1	1	21.49	21.53	21.54

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	CP-OFDM QPSK	1	1	21.39	21.58	21.10

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	CP-OFDM QPSK	1	1	21.45	21.58	21.45

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	CP-OFDM QPSK	1	1	21.44	21.56	21.52

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	CP-OFDM QPSK	1	1	21.47	21.58	21.56

BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	CP-OFDM QPSK	1	1	21.46	21.60	21.55



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	DFT-s-OFDM QPSK	1	1	23.11	23.18	23.23

BW	MCS Index	RB Size	RB Offset	Low CH 647670	Mid CH 656000	High CH 664332
				Frequency 3715.05MHz	Frequency 3840MHz	Frequency 3964.98MHz
30M	DFT-s-OFDM QPSK	1	1	23.18	23.19	23.24

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	DFT-s-OFDM QPSK	1	1	23.15	23.15	23.18

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	DFT-s-OFDM QPSK	1	1	23.18	23.14	23.19

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	DFT-s-OFDM QPSK	1	1	23.17	23.20	23.23

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	DFT-s-OFDM QPSK	1	1	23.22	23.26	23.27



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	22.99	23.10	23.15
		1	137	23.09	23.16	23.26
		1	271	23.02	23.17	23.23
		135	0	22.71	22.79	22.89
		135	69	23.07	23.21	23.28
		135	138	22.52	22.60	22.70
		270	0	22.50	22.67	22.74
	DFT-s-OFDM QPSK	1	1	23.11	23.20	23.33
		1	137	23.12	23.19	23.30
		1	271	23.03	23.17	23.24
		135	0	21.98	22.11	22.21
		135	69	22.99	23.13	23.20
		135	138	22.03	22.10	22.21
		270	0	22.09	22.19	22.26
	DFT-s-OFDM 16QAM	1	1	21.93	22.01	22.14
	DFT-s-OFDM 64QAM	1	1	20.77	20.87	20.94
	DFT-s-OFDM 256QAM	1	1	18.78	18.86	18.99



BUREAU  
VERITAS

Test Report No.: W7L-P23100014RF12

**N78(Part 27Q)**

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	1	21.55	21.67	21.73

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	CP-OFDM QPSK	1	1	21.59	21.65	21.50

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	1	21.51	21.61	21.77

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	1	21.54	21.59	21.74



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	1	21.51	21.50	21.60

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	1	21.55	21.56	21.72

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	CP-OFDM QPSK	1	1	21.56	21.60	21.74

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	1	/	21.62	/





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BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	1	23.02	23.19	23.05

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	DFT-s-OFDM QPSK	1	1	23.10	23.07	23.10

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	1	23.06	23.10	23.15

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	1	23.05	23.16	23.11

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	1	23.08	23.21	23.22

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	1	23.02	23.07	23.15

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	DFT-s-OFDM QPSK	1	1	23.09	23.21	23.23



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.06	/
		1	137	/	22.89	/
		1	271	/	22.82	/
		135	0	/	22.53	/
		135	69	/	22.94	/
		135	138	/	22.40	/
		270	0	/	22.44	/
	DFT-s-OFDM QPSK	1	1	/	23.24	/
		1	137	/	22.95	/
		1	271	/	22.92	/
		135	0	/	22.08	/
		135	69	/	22.90	/
		135	138	/	21.87	/
		270	0	/	21.93	/
	DFT-s-OFDM 16QAM	1	1	/	22.16	/
	DFT-s-OFDM 64QAM	1	1	/	20.86	/
	DFT-s-OFDM 256QAM	1	1	/	18.85	/



Test Report No.: W7L-P23100014RF12

ANT5:  
N41

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	CP-OFDM QPSK	1	1	21.40	21.54	21.50

BW	MCS Index	RB Size	RB Offset	Low CH 502200	Mid CH 518598	High CH 534996
				Frequency 2511MHz	Frequency 2592.99MHz	Frequency 2674.98MHz
30M	CP-OFDM QPSK	1	1	21.47	21.43	21.42

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	CP-OFDM QPSK	1	1	21.55	21.52	21.50

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	CP-OFDM QPSK	1	1	21.45	21.41	21.46



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	CP-OFDM QPSK	1	1	21.47	21.50	21.49

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	CP-OFDM QPSK	1	1	21.50	21.51	21.50

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	CP-OFDM QPSK	1	1	21.49	21.50	21.48

BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	CP-OFDM QPSK	1	1	21.48	21.53	21.47

BW	MCS Index	RB Size	RB Offset	Low CH 501204	Mid CH 518598	High CH 535998
				Frequency 2506.02MHz	Frequency 2592.99MHz	Frequency 2679.99MHz
20M	DFT-s-OFDM QPSK	1	1	22.94	22.99	23.02

BW	MCS Index	RB Size	RB Offset	Low CH 502200	Mid CH 518598	High CH 534996
				Frequency 2511MHz	Frequency 2592.99MHz	Frequency 2674.98MHz
30M	DFT-s-OFDM QPSK	1	1	23.00	23.08	23.01

BW	MCS Index	RB Size	RB Offset	Low CH 503202	Mid CH 518598	High CH 534000
				Frequency 2516.01MHz	Frequency 2592.99MHz	Frequency 2670MHz
40M	DFT-s-OFDM QPSK	1	1	22.96	22.98	22.94

BW	MCS Index	RB Size	RB Offset	Low CH 504204	Mid CH 518598	High CH 532998
				Frequency 2521.02MHz	Frequency 2592.99MHz	Frequency 2664.99MHz
50M	DFT-s-OFDM QPSK	1	1	22.97	23.03	23.01

BW	MCS Index	RB Size	RB Offset	Low CH 505200	Mid CH 518598	High CH 531996
				Frequency 2526MHz	Frequency 2592.99MHz	Frequency 2659.98MHz
60M	DFT-s-OFDM QPSK	1	1	22.94	22.93	22.91

BW	MCS Index	RB Size	RB Offset	Low CH 507204	Mid CH 518598	High CH 529998
				Frequency 2536.02MHz	Frequency 2592.99MHz	Frequency 2649.99MHz
80M	DFT-s-OFDM QPSK	1	1	23.00	22.98	22.94

BW	MCS Index	RB Size	RB Offset	Low CH 508200	Mid CH 518598	High CH 528996
				Frequency 2541MHz	Frequency 2592.99MHz	Frequency 2644.98MHz
90M	DFT-s-OFDM QPSK	1	1	22.96	23.01	22.95



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BW	MCS Index	RB Size	RB Offset	Low CH 509202	Mid CH 518598	High CH 528000
				Frequency 2546.01MHz	Frequency 2592.99MHz	Frequency 2640MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	23.07	23.02	22.98
		1	137	22.90	22.74	22.68
		1	271	22.85	22.60	22.55
		135	0	22.50	22.31	22.27
		135	69	22.83	22.65	22.60
		135	138	22.47	22.25	22.22
		270	0	22.51	22.32	22.17
	DFT-s-OFDM QPSK	1	1	23.08	22.89	22.85
		1	137	22.91	22.90	22.75
		1	271	22.83	22.60	22.68
		135	0	21.82	21.78	21.61
		135	69	22.88	22.69	22.73
		135	138	21.72	21.53	21.51
		270	0	21.78	21.74	21.65
	DFT-s-OFDM 16QAM	1	1	21.89	21.70	21.69
	DFT-s-OFDM 64QAM	1	1	20.65	20.58	20.60
	DFT-s-OFDM 256QAM	1	1	18.68	18.53	18.50



Test Report No.: W7L-P23100014RF12

**N77(Part 27Q)**

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	1	21.63	21.76	21.77

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	CP-OFDM QPSK	1	1	21.66	21.71	21.73

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	1	21.59	21.81	21.73

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	1	21.55	21.67	21.65

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	1	21.65	21.70	21.65

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	1	21.65	21.72	21.75

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	1	/	21.76	/



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BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	1	22.98	23.05	23.07

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	DFT-s-OFDM QPSK	1	1	23.03	23.01	23.09

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	1	23.00	23.09	23.09

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	1	23.03	23.17	23.12

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	1	23.02	23.10	23.13

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	1	23.03	23.09	23.12





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BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.05	/
		1	137	/	22.69	/
		1	271	/	22.86	/
		135	0	/	22.39	/
		135	69	/	22.72	/
		135	138	/	22.38	/
		270	0	/	22.28	/
	DFT-s-OFDM QPSK	1	1	/	23.13	/
		1	137	/	22.60	/
		1	271	/	22.79	/
		135	0	/	22.21	/
		135	69	/	22.61	/
		135	138	/	21.99	/
		270	0	/	21.89	/
	DFT-s-OFDM 16QAM	1	1	/	22.14	/
	DFT-s-OFDM 64QAM	1	1	/	20.98	/
	DFT-s-OFDM 256QAM	1	1	/	18.96	/



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**N77(Part 270)**

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	CP-OFDM QPSK	1	1	21.44	21.54	21.50

BW	MCS Index	RB Size	RB Offset	Low CH 647670	Mid CH 656000	High CH 664332
				Frequency 3715.05MHz	Frequency 3840MHz	Frequency 3964.98MHz
30M	CP-OFDM QPSK	1	1	21.44	21.52	21.33

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	CP-OFDM QPSK	1	1	21.41	21.51	21.30

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	CP-OFDM QPSK	1	1	21.46	21.51	21.47

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	CP-OFDM QPSK	1	1	21.48	21.53	21.56

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	CP-OFDM QPSK	1	1	21.48	21.54	21.53

BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	CP-OFDM QPSK	1	1	21.45	21.58	21.59



Test Report No.: W7L-P23100014RF12

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	DFT-s-OFDM QPSK	1	1	23.21	23.26	23.25

BW	MCS Index	RB Size	RB Offset	Low CH 647670	Mid CH 656000	High CH 664332
				Frequency 3715.05MHz	Frequency 3840MHz	Frequency 3964.98MHz
30M	DFT-s-OFDM QPSK	1	1	23.19	23.22	23.27

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	DFT-s-OFDM QPSK	1	1	23.11	23.16	23.15

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	DFT-s-OFDM QPSK	1	1	23.14	23.16	23.12

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	DFT-s-OFDM QPSK	1	1	23.18	23.21	23.20

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	DFT-s-OFDM QPSK	1	1	23.20	23.22	23.26



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BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	22.95	23.04	23.13
		1	137	23.05	23.14	23.28
		1	271	23.05	23.12	23.25
		135	0	22.62	22.64	22.81
		135	69	22.99	23.09	23.22
		135	138	22.50	22.58	22.73
		270	0	22.51	22.54	22.70
	DFT-s-OFDM QPSK	1	1	23.08	23.14	23.31
		1	137	23.05	23.08	23.25
		1	271	22.98	23.08	23.21
		135	0	22.09	22.12	22.29
		135	69	22.99	23.12	23.25
		135	138	22.01	22.10	22.25
		270	0	22.00	22.10	22.20
	DFT-s-OFDM 16QAM	1	1	21.92	22.01	22.15
	DFT-s-OFDM 64QAM	1	1	20.74	20.80	20.94
	DFT-s-OFDM 256QAM	1	1	18.72	18.78	18.92



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VERITAS

Test Report No.: W7L-P23100014RF12

**N78(Part 27Q)**

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	1	21.57	21.64	21.79

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	CP-OFDM QPSK	1	1	21.58	21.61	21.50

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	1	21.58	21.64	21.72

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	1	21.58	21.66	21.71



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BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	1	21.58	21.60	21.63

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	1	21.65	21.59	21.70

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	CP-OFDM QPSK	1	1	21.59	21.57	21.71

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	1	/	21.6	/



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BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	1	23.08	23.14	23.16

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	DFT-s-OFDM QPSK	1	1	23.10	23.05	23.14

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	1	23.18	23.13	23.11

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	1	23.09	23.08	23.16

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	1	23.18	23.15	23.20

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	1	23.12	23.06	23.14

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	DFT-s-OFDM QPSK	1	1	23.10	23.23	23.18



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BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.03	/
		1	137	/	22.87	/
		1	271	/	22.76	/
		135	0	/	22.52	/
		135	69	/	22.87	/
		135	138	/	22.37	/
		270	0	/	22.42	/
	DFT-s-OFDM QPSK	1	1	/	23.20	/
		1	137	/	22.93	/
		1	271	/	22.84	/
		135	0	/	22.06	/
		135	69	/	22.82	/
		135	138	/	21.84	/
		270	0	/	21.91	/
	DFT-s-OFDM 16QAM	1	1	/	22.10	/
	DFT-s-OFDM 64QAM	1	1	/	20.85	/
	DFT-s-OFDM 256QAM	1	1	/	18.80	/





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ANT6:  
N77(Part 27Q)

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	1	21.60	21.75	21.71

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	CP-OFDM QPSK	1	1	21.68	21.66	21.75

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	1	21.54	21.77	21.71

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	1	21.59	21.68	21.61

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	1	21.61	21.69	21.67

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	1	21.61	21.76	21.74

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	1	/	21.78	/



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BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	1	22.95	23.01	23.03

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	DFT-s-OFDM QPSK	1	1	23.01	23.06	23.05

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	1	23.05	23.10	23.01

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	1	23.01	23.11	23.13

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	1	23.05	23.09	23.15

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	1	23.01	23.02	23.07



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BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.02	/
		1	137	/	22.67	/
		1	271	/	22.80	/
		135	0	/	22.38	/
		135	69	/	22.65	/
		135	138	/	22.35	/
		270	0	/	22.26	/
	DFT-s-OFDM QPSK	1	1	/	23.07	/
		1	137	/	22.58	/
		1	271	/	22.71	/
		135	0	/	22.19	/
		135	69	/	22.53	/
		135	138	/	21.96	/
		270	0	/	21.87	/
	DFT-s-OFDM 16QAM	1	1	/	22.08	/
	DFT-s-OFDM 64QAM	1	1	/	20.97	/
	DFT-s-OFDM 256QAM	1	1	/	18.91	/



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**N77(Part 270)**

BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	CP-OFDM QPSK	1	1	21.42	21.48	21.52

BW	MCS Index	RB Size	RB Offset	Low CH 647670	Mid CH 656000	High CH 664332
				Frequency 3715.05MHz	Frequency 3840MHz	Frequency 3964.98MHz
30M	CP-OFDM QPSK	1	1	21.45	21.51	21.36

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	CP-OFDM QPSK	1	1	21.46	21.50	21.39

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	CP-OFDM QPSK	1	1	21.44	21.52	21.43

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	CP-OFDM QPSK	1	1	21.49	21.51	21.54

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	CP-OFDM QPSK	1	1	21.44	21.53	21.55

BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	CP-OFDM QPSK	1	1	21.42	21.51	21.53



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BW	MCS Index	RB Size	RB Offset	Low CH 647334	Mid CH 656000	High CH 664666
				Frequency 3710.01MHz	Frequency 3840MHz	Frequency 3969.99MHz
20M	DFT-s-OFDM QPSK	1	1	23.28	23.21	23.24

BW	MCS Index	RB Size	RB Offset	Low CH 647670	Mid CH 656000	High CH 664332
				Frequency 3715.05MHz	Frequency 3840MHz	Frequency 3964.98MHz
30M	DFT-s-OFDM QPSK	1	1	23.20	23.21	23.27

BW	MCS Index	RB Size	RB Offset	Low CH 648000	Mid CH 656000	High CH 664000
				Frequency 3720MHz	Frequency 3840MHz	Frequency 3960MHz
40M	DFT-s-OFDM QPSK	1	1	23.14	23.19	23.22

BW	MCS Index	RB Size	RB Offset	Low CH 648336	Mid CH 656000	High CH 663666
				Frequency 3725.04MHz	Frequency 3840MHz	Frequency 3954.99MHz
50M	DFT-s-OFDM QPSK	1	1	23.16	23.11	23.15

BW	MCS Index	RB Size	RB Offset	Low CH 648668	Mid CH 656000	High CH 663332
				Frequency 3730.02MHz	Frequency 3840MHz	Frequency 3949.98MHz
60M	DFT-s-OFDM QPSK	1	1	23.15	23.23	23.20

BW	MCS Index	RB Size	RB Offset	Low CH 649334	Mid CH 656000	High CH 662666
				Frequency 3740.01MHz	Frequency 3840MHz	Frequency 3939.99MHz
80M	DFT-s-OFDM QPSK	1	1	23.19	23.23	23.26



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BW	MCS Index	RB Size	RB Offset	Low CH 650000	Mid CH 656000	High CH 662000
				Frequency 3750MHz	Frequency 3840MHz	Frequency 3930MHz
100M	DFT-s-OFDM Pi/2 BPSK	1	1	22.96	23.01	23.11
		1	137	23.06	23.10	23.25
		1	271	23.04	23.03	23.21
		135	0	22.49	22.56	22.72
		135	69	23.08	23.17	23.29
		135	138	22.56	22.63	22.78
		270	0	22.74	22.78	22.90
	DFT-s-OFDM QPSK	1	1	23.15	23.23	23.34
		1	137	23.02	23.07	23.22
		1	271	23.11	23.12	23.27
		135	0	22.02	22.11	22.22
		135	69	23.16	23.18	23.33
		135	138	22.01	22.09	22.21
		270	0	22.73	22.75	22.90
	DFT-s-OFDM 16QAM	1	1	22.02	22.13	22.25
	DFT-s-OFDM 64QAM	1	1	20.78	20.81	20.99
	DFT-s-OFDM 256QAM	1	1	18.78	18.79	18.95



BUREAU  
VERITAS

Test Report No.: W7L-P23100014RF12

**N78(Part 27Q)**

BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	CP-OFDM QPSK	1	1	21.54	21.60	21.62

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	CP-OFDM QPSK	1	1	21.55	21.61	21.63

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	CP-OFDM QPSK	1	1	21.52	21.57	21.63

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	CP-OFDM QPSK	1	1	21.51	21.64	21.66



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BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	CP-OFDM QPSK	1	1	21.52	21.53	21.50

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	CP-OFDM QPSK	1	1	21.60	21.51	21.71

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	CP-OFDM QPSK	1	1	21.51	21.52	21.69

BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	CP-OFDM QPSK	1	1	/	21.1	/





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BW	MCS Index	RB Size	RB Offset	Low CH 630668	Mid CH 633334	High CH 636000
				Frequency 3460.02MHz	Frequency 3500.01MHz	Frequency 3540MHz
20M	DFT-s-OFDM QPSK	1	1	23.12	23.16	23.18

BW	MCS Index	RB Size	RB Offset	Low CH 631002	Mid CH 633334	High CH 635664
				Frequency 3465.03MHz	Frequency 3500.01MHz	Frequency 3534.96MHz
30M	DFT-s-OFDM QPSK	1	1	23.12	23.09	23.12

BW	MCS Index	RB Size	RB Offset	Low CH 631334	Mid CH 633334	High CH 635332
				Frequency 3470.01MHz	Frequency 3500.01MHz	Frequency 3529.98MHz
40M	DFT-s-OFDM QPSK	1	1	23.20	23.15	23.17

BW	MCS Index	RB Size	RB Offset	Low CH 631668	Mid CH 633334	High CH 634998
				Frequency 3475.02MHz	Frequency 3500.01MHz	Frequency 3524.97MHz
50M	DFT-s-OFDM QPSK	1	1	23.12	23.14	23.16

BW	MCS Index	RB Size	RB Offset	Low CH 632000	Mid CH 633334	High CH 634666
				Frequency 3480MHz	Frequency 3500.01MHz	Frequency 3519.99MHz
60M	DFT-s-OFDM QPSK	1	1	23.15	23.11	23.18

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
80M	DFT-s-OFDM QPSK	1	1	23.11	23.02	23.12

BW	MCS Index	RB Size	RB Offset	Low CH 632668	Mid CH 633334	High CH 634000
				Frequency 3490.02MHz	Frequency 3500.01MHz	Frequency 3510MHz
90M	DFT-s-OFDM QPSK	1	1	23.08	23.21	23.15



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BW	MCS Index	RB Size	RB Offset	/	Mid CH 633334	/
				/	Frequency 3500.01MHz	/
100M	DFT-s-OFDM Pi/2 BPSK	1	1	/	23.06	/
		1	137	/	22.89	/
		1	271	/	22.77	/
		135	0	/	22.59	/
		135	69	/	22.88	/
		135	138	/	22.40	/
		270	0	/	22.44	/
	DFT-s-OFDM QPSK	1	1	/	23.21	/
		1	137	/	22.94	/
		1	271	/	22.89	/
		135	0	/	22.07	/
		135	69	/	22.87	/
		135	138	/	21.87	/
		270	0	/	21.93	/
	DFT-s-OFDM 16QAM	1	1	/	22.11	/
	DFT-s-OFDM 64QAM	1	1	/	20.92	/
	DFT-s-OFDM 256QAM	1	1	/	18.88	/



Test Report No.: W7L-P23100014RF12

EIRP  
N2

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	23.09	-0.5	22.59	181.55	2
376000	1880	23.15	-0.5	22.65	184.08	2
381500	1907.5	23.08	-0.5	22.58	181.13	2

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.11	-0.5	22.61	182.39	2
376000	1880	23.16	-0.5	22.66	184.5	2
381000	1905	23.12	-0.5	22.62	182.81	2

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	23.15	-0.5	22.65	184.08	2
376000	1880	23.18	-0.5	22.68	185.35	2
380500	1902.5	23.14	-0.5	22.64	183.65	2

**CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	23.16	-0.5	22.66	184.5	2
376000	1880	23.16	-0.5	22.66	184.5	2
380000	1900	23.09	-0.5	22.59	181.55	2

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	23.26	-0.5	22.76	188.8	2
376000	1880	23.27	-0.5	22.77	189.23	2
380000	1900	23.21	-0.5	22.71	186.64	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	22.43	-0.5	21.93	155.96	2
376000	1880	22.44	-0.5	21.94	156.31	2
380000	1900	22.42	-0.5	21.92	155.6	2

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	20.78	-0.5	20.28	106.66	2
376000	1880	20.88	-0.5	20.38	109.14	2
380000	1900	20.74	-0.5	20.24	105.68	2

**CHANNEL BANDWIDTH: 20MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	18.6	-0.5	18.1	64.57	2
376000	1880	18.6	-0.5	18.1	64.57	2
380000	1900	18.54	-0.5	18.04	63.68	2

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



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N5

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165300	826.5	22.75	-3	17.6	57.54	7
167300	836.5	22.77	-3	17.62	57.81	7
169300	846.5	22.73	-3	17.58	57.28	7

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
165800	829	22.68	-3	17.53	56.62	7
167300	836.5	22.73	-3	17.58	57.28	7
168800	844	22.7	-3	17.55	56.89	7

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166300	831.5	22.72	-3	17.57	57.15	7
167300	836.5	22.76	-3	17.61	57.68	7
168300	841.5	22.73	-3	17.58	57.28	7

**CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	22.85	-3	17.7	58.88	7
167300	836.5	22.83	-3	17.68	58.61	7
167800	839	22.75	-3	17.6	57.54	7

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	22.84	-3	17.69	58.75	7
167300	836.5	22.89	-3	17.74	59.43	7
167800	839	22.78	-3	17.63	57.94	7

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	21.76	-3	16.61	45.81	7
167300	836.5	21.77	-3	16.62	45.92	7
167800	839	21.7	-3	16.55	45.19	7

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	20.44	-3	15.29	33.81	7
167300	836.5	20.54	-3	15.39	34.59	7
167800	839	20.35	-3	15.2	33.11	7

**CHANNEL BANDWIDTH: 20MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
166800	834	18.07	-3	12.92	19.59	7
167300	836.5	18.07	-3	12.92	19.59	7
167800	839	17.96	-3	12.81	19.1	7

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



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N7

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
501500	2502.5	23	-1.5	21.5	141.25	2
507000	2535	23.05	-1.5	21.55	142.89	2
512500	2567.5	22.98	-1.5	21.48	140.6	2

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
501000	2505	22.95	-1.5	21.45	139.64	2
507000	2535	22.99	-1.5	21.49	140.93	2
513000	2565	22.95	-1.5	21.45	139.64	2

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
501500	2507.5	23	-1.5	21.5	141.25	2
507000	2535	23.02	-1.5	21.52	141.91	2
512500	2562.5	22.88	-1.5	21.38	137.4	2

**CHANNEL BANDWIDTH: 20MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	23.04	-1.5	21.54	142.56	2
507000	2535	23.06	-1.5	21.56	143.22	2
512000	2560	22.89	-1.5	21.39	137.72	2

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	23.1	-1.5	21.6	144.54	2
507000	2535	23.15	-1.5	21.65	146.22	2
512000	2560	22.94	-1.5	21.44	139.32	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	22.05	-1.5	20.55	113.5	2
507000	2535	22.13	-1.5	20.63	115.61	2
512000	2560	21.89	-1.5	20.39	109.4	2

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	20.78	-1.5	19.28	84.72	2
507000	2535	20.76	-1.5	19.26	84.33	2
512000	2560	20.6	-1.5	19.1	81.28	2

**CHANNEL BANDWIDTH: 20MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
502000	2510	18.29	-1.5	16.79	47.75	2
507000	2535	18.37	-1.5	16.87	48.64	2
512000	2560	18.13	-1.5	16.63	46.03	2

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





Test Report No.: W7L-P23100014RF12

N12

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140300	701.5	22.55	-2.5	20.05	101.16	3
141500	707.5	22.59	-2.5	20.09	102.09	3
142700	713.5	22.56	-2.5	20.06	101.39	3

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
140800	704	22.51	-2.5	20.01	100.23	3
141500	707.5	22.58	-2.5	20.08	101.86	3
142200	711	22.55	-2.5	20.05	101.16	3

**CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	22.63	-2.5	20.13	103.04	3
141500	707.5	22.67	-2.5	20.17	103.99	3
141700	708.5	22.6	-2.5	20.1	102.33	3

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	22.65	-2.5	20.15	103.51	3
141500	707.5	22.7	-2.5	20.2	104.71	3
141700	708.5	22.6	-2.5	20.1	102.33	3

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	21.48	-2.5	18.98	79.07	3
141500	707.5	21.56	-2.5	19.06	80.54	3
141700	708.5	21.47	-2.5	18.97	78.89	3

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	20.23	-2.5	17.73	59.29	3
141500	707.5	20.23	-2.5	17.73	59.29	3
141700	708.5	20.23	-2.5	17.73	59.29	3

**CHANNEL BANDWIDTH: 15MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
141300	706.5	17.72	-2.5	15.22	33.27	3
141500	707.5	17.81	-2.5	15.31	33.96	3
141700	708.5	17.69	-2.5	15.19	33.04	3

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



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N25

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
370500	1852.5	23.21	-0.5	22.71	186.64	2
376500	1882.5	23.22	-0.5	22.72	187.07	2
382500	1912.5	23.18	-0.5	22.68	185.35	2

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371000	1855	23.27	-0.5	22.77	189.23	2
376500	1882.5	23.3	-0.5	22.8	190.55	2
382000	1910	23.3	-0.5	22.8	190.55	2

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
371500	1857.5	23.09	-0.5	22.59	181.55	2
376500	1882.5	23.18	-0.5	22.68	185.35	2
381500	1907.5	23.25	-0.5	22.75	188.36	2

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372000	1860	23.22	-0.5	22.72	187.07	2
376500	1882.5	23.25	-0.5	22.75	188.36	2
381000	1905	23.31	-0.5	22.81	190.99	2

**CHANNEL BANDWIDTH: 25MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
372500	1862.5	23.25	-0.5	22.75	188.36	2
376500	1882.5	23.29	-0.5	22.79	190.11	2
380500	1902.5	23.11	-0.5	22.61	182.39	2



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**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
373000	1865	23.34	-0.5	22.84	192.31	2
376500	1882.5	23.38	-0.5	22.88	194.09	2
380000	1900	23.31	-0.5	22.81	190.99	2

**CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	23.36	-0.5	22.86	193.2	2
376500	1882.5	23.38	-0.5	22.88	194.09	2
379000	1895	23.28	-0.5	22.78	189.67	2

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	23.39	-0.5	22.89	194.54	2
376500	1882.5	23.41	-0.5	22.91	195.43	2
379000	1895	23.36	-0.5	22.86	193.2	2

**CHANNEL BANDWIDTH: 40MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	22.17	-0.5	21.67	146.89	2
376500	1882.5	22.19	-0.5	21.69	147.57	2
379000	1895	22.25	-0.5	21.75	149.62	2



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**CHANNEL BANDWIDTH: 40MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	20.9	-0.5	20.4	109.65	2
376500	1882.5	21	-0.5	20.5	112.2	2
379000	1895	20.97	-0.5	20.47	111.43	2

**CHANNEL BANDWIDTH: 40MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
374000	1870	19.02	-0.5	18.52	71.12	2
376500	1882.5	19.06	-0.5	18.56	71.78	2
379000	1895	19.06	-0.5	18.56	71.78	2

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



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CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W/5MHz)
461500	2307.5	23.25	-2.8	20.45	110.92	0.25
462000	2310	23.27	-2.8	20.47	111.43	0.25
462500	2312.5	23.35	-2.8	20.55	113.5	0.25

CHANNEL BANDWIDTH: 10MHz Pi/2 BPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W/5MHz)
462000	2310	23.37	-2.8	20.57	114.02	0.25

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W/5MHz)
462000	2310	23.4	-2.8	20.6	114.82	0.25

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W/5MHz)
462000	2310	22.33	-2.8	19.53	89.74	0.25

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W/5MHz)
462000	2310	21.03	-2.8	18.23	66.53	0.25

CHANNEL BANDWIDTH: 10MHz 256QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W/5MHz)
462000	2310	18.58	-2.8	15.78	37.84	0.25

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



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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
516504	2582.52	23	-1.5	21.5	141.25	2
519000	2595	23.05	-1.5	21.55	142.89	2
521496	2607.48	22.97	-1.5	21.47	140.28	2

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
517002	2585.01	23.03	-1.5	21.53	142.23	2
519000	2595	23.07	-1.5	21.57	143.55	2
520998	2604.99	23.02	-1.5	21.52	141.91	2

**CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518004	2590.02	22.99	-1.5	21.49	140.93	2
519000	2595	22.92	-1.5	21.42	138.68	2
519996	2599.98	22.9	-1.5	21.4	138.04	2

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518004	2590.02	23.09	-1.5	21.59	144.21	2
519000	2595	23.05	-1.5	21.55	142.89	2
519996	2599.98	23.03	-1.5	21.53	142.23	2

**CHANNEL BANDWIDTH: 40MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518004	2590.02	22.03	-1.5	20.53	112.98	2
519000	2595	21.9	-1.5	20.4	109.65	2
519996	2599.98	21.91	-1.5	20.41	109.9	2



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**CHANNEL BANDWIDTH: 40MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518004	2590.02	20.8	-1.5	19.3	85.11	2
519000	2595	20.6	-1.5	19.1	81.28	2
519996	2599.98	20.63	-1.5	19.13	81.85	2

**CHANNEL BANDWIDTH: 40MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
518004	2590.02	18.73	-1.5	17.23	52.84	2
519000	2595	18.62	-1.5	17.12	51.52	2
519996	2599.98	18.66	-1.5	17.16	52	2

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





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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	22.94	-1.5	21.44	139.32	2
518598	2592.99	23.02	-1.5	21.52	141.91	2
535998	2679.99	22.98	-1.5	21.48	140.6	2

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	23	-1.5	21.5	141.25	2
518598	2592.99	23.11	-1.5	21.61	144.88	2
534996	2674.98	23.07	-1.5	21.57	143.55	2

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	22.94	-1.5	21.44	139.32	2
518598	2592.99	23.02	-1.5	21.52	141.91	2
534000	2670	22.97	-1.5	21.47	140.28	2

**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	23.02	-1.5	21.52	141.91	2
518598	2592.99	23.09	-1.5	21.59	144.21	2
532998	2664.99	23.01	-1.5	21.51	141.58	2



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**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	22.91	-1.5	21.41	138.36	2
518598	2592.99	22.95	-1.5	21.45	139.64	2
531996	2659.98	22.93	-1.5	21.43	139	2

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	22.98	-1.5	21.48	140.6	2
518598	2592.99	23.03	-1.5	21.53	142.23	2
529998	2649.99	22.97	-1.5	21.47	140.28	2

**CHANNEL BANDWIDTH: 90MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	23.01	-1.5	21.51	141.58	2
518598	2592.99	23.05	-1.5	21.55	142.89	2
528996	2644.98	23.01	-1.5	21.51	141.58	2



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**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.06	-1.5	21.56	143.22	2
518598	2592.99	22.99	-1.5	21.49	140.93	2
528000	2640	22.92	-1.5	21.42	138.68	2

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.1	-1.5	21.6	144.54	2
518598	2592.99	23.08	-1.5	21.58	143.88	2
528000	2640	22.96	-1.5	21.46	139.96	2

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	21.96	-1.5	20.46	111.17	2
518598	2592.99	21.93	-1.5	20.43	110.41	2
528000	2640	21.84	-1.5	20.34	108.14	2

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	20.69	-1.5	19.19	82.99	2
518598	2592.99	20.58	-1.5	19.08	80.91	2
528000	2640	20.58	-1.5	19.08	80.91	2

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	18.7	-1.5	17.2	52.48	2
518598	2592.99	18.68	-1.5	17.18	52.24	2
528000	2640	18.56	-1.5	17.06	50.82	2

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



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**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
342500	1712.5	23.41	0.4	23.81	240.44	1
349000	1745	23.31	0.4	23.71	234.96	1
355500	1777.5	23.33	0.4	23.73	236.05	1

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343000	1715	23.33	0.4	23.73	236.05	1
349000	1745	23.28	0.4	23.68	233.35	1
355000	1775	23.27	0.4	23.67	232.81	1

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
343500	1717.5	23.37	0.4	23.77	238.23	1
349000	1745	23.32	0.4	23.72	235.5	1
354500	1772.5	23.29	0.4	23.69	233.88	1

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
344000	1720	23.4	0.4	23.8	239.88	1
349000	1745	23.37	0.4	23.77	238.23	1
354000	1770	23.46	0.4	23.86	243.22	1

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
345000	1725	23.42	0.4	23.82	240.99	1
349000	1745	23.37	0.4	23.77	238.23	1
353000	1765	23.42	0.4	23.82	240.99	1

**CHANNEL BANDWIDTH: 40MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	23.42	0.4	23.82	240.99	1
349000	1745	23.35	0.4	23.75	237.14	1
352000	1760	23.39	0.4	23.79	239.33	1

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	23.47	0.4	23.87	243.78	1
349000	1745	23.41	0.4	23.81	240.44	1
352000	1760	23.45	0.4	23.85	242.66	1

**CHANNEL BANDWIDTH: 40MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	22.35	0.4	22.75	188.36	1
349000	1745	22.28	0.4	22.68	185.35	1
352000	1760	22.25	0.4	22.65	184.08	1

**CHANNEL BANDWIDTH: 40MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	21.04	0.4	21.44	139.32	1
349000	1745	20.95	0.4	21.35	136.46	1
352000	1760	21	0.4	21.4	138.04	1

**CHANNEL BANDWIDTH: 40MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
346000	1730	19.09	0.4	19.49	88.92	1
349000	1745	18.98	0.4	19.38	86.7	1
352000	1760	19.05	0.4	19.45	88.1	1

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



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**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
133100	665.5	23.01	-7	16.01	39.9	1
136100	680.5	22.96	-7	15.96	39.45	1
139100	695.5	22.92	-7	15.92	39.08	1

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
133600	668	23	-7	16	39.81	1
136100	680.5	23.03	-7	16.03	40.09	1
138600	693	22.95	-7	15.95	39.36	1



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**CHANNEL BANDWIDTH: 15MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134100	670.5	23.01	-7	16.01	39.9	1
136100	680.5	23.07	-7	16.07	40.46	1
138100	690.5	22.88	-7	15.88	38.73	1

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134100	670.5	23.06	-7	16.06	40.36	1
136100	680.5	23.09	-7	16.09	40.64	1
138100	690.5	22.89	-7	15.89	38.82	1

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134100	670.5	22	-7	15	31.62	1
136100	680.5	21.99	-7	14.99	31.55	1
138100	690.5	21.81	-7	14.81	30.27	1

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134100	670.5	20.62	-7	13.62	23.01	1
136100	680.5	20.64	-7	13.64	23.12	1
138100	690.5	20.5	-7	13.5	22.39	1

**CHANNEL BANDWIDTH: 15MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
134100	670.5	18.23	-7	11.23	13.27	1
136100	680.5	18.26	-7	11.26	13.37	1
138100	690.5	18	-7	11	12.59	1

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



BUREAU  
VERITAS

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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	22.89	-1.3	21.59	144.21	1
633334	3500.01	23	-1.3	21.7	147.91	1
636000	3540	23.05	-1.3	21.75	149.62	1

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631002	3465.03	23.02	-1.3	21.72	148.59	1
633334	3500.01	23.05	-1.3	21.75	149.62	1
635664	3534.96	23.11	-1.3	21.81	151.71	1

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	22.98	-1.3	21.68	147.23	1
633334	3500.01	23.07	-1.3	21.77	150.31	1
635332	3529.98	23.1	-1.3	21.8	151.36	1





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**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	23.03	-1.3	21.73	148.94	1
633334	3500.01	23.15	-1.3	21.85	153.11	1
634998	3524.97	23.09	-1.3	21.79	151.01	1

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	23.01	-1.3	21.71	148.25	1
633334	3500.01	23.07	-1.3	21.77	150.31	1
634666	3519.99	23.1	-1.3	21.8	151.36	1

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	23.05	-1.3	21.75	149.62	1
633334	3500.01	23.07	-1.3	21.77	150.31	1
634000	3510	23.15	-1.3	21.85	153.11	1



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**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	23.12	-1.3	21.82	152.05	1

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	23.16	-1.3	21.86	153.46	1

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.17	-1.3	20.87	122.18	1

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	21.08	-1.3	19.78	95.06	1

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	19.06	-1.3	17.76	59.7	1

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



BUREAU  
VERITAS

Test Report No.: W7L-P23100014RF12

N77(Part270)

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	23.08	-1.3	21.78	150.66	1
656000	3840	23.22	-1.3	21.92	155.6	1
664666	3969.99	23.28	-1.3	21.98	157.76	1

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647670	3715.05	23.16	-1.3	21.86	153.46	1
656000	3840	23.11	-1.3	21.81	151.71	1
664332	3964.98	23.25	-1.3	21.95	156.68	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	23.14	-1.3	21.84	152.76	1
656000	3840	23.09	-1.3	21.79	151.01	1
664000	3960	23.3	-1.3	22	158.49	1



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648336	3725.04	23.1	-1.3	21.8	151.36	1
656000	3840	23.19	-1.3	21.89	154.53	1
663666	3954.99	23.18	-1.3	21.88	154.17	1

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648668	3730.02	23.15	-1.3	21.85	153.11	1
656000	3840	23.22	-1.3	21.92	155.6	1
663332	3949.98	23.21	-1.3	21.91	155.24	1

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649334	3740.01	23.18	-1.3	21.88	154.17	1
656000	3840	23.24	-1.3	21.94	156.31	1
662666	3939.99	23.28	-1.3	21.98	157.76	1



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	23.15	-1.3	21.85	153.11	1
656000	3840	23.28	-1.3	21.98	157.76	1
662000	3930	23.3	-1.3	22	158.49	1

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	23.22	-1.3	21.92	155.6	1
656000	3840	23.3	-1.3	22	158.49	1
662000	3930	23.35	-1.3	22.05	160.32	1

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	22.03	-1.3	20.73	118.3	1
656000	3840	22.17	-1.3	20.87	122.18	1
662000	3930	22.15	-1.3	20.85	121.62	1

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	20.74	-1.3	19.44	87.9	1
656000	3840	20.87	-1.3	19.57	90.57	1
662000	3930	20.97	-1.3	19.67	92.68	1

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	18.72	-1.3	17.42	55.21	1
656000	3840	18.89	-1.3	17.59	57.41	1
662000	3930	18.91	-1.3	17.61	57.68	1

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



BUREAU  
VERITAS

Test Report No.: W7L-P23100014RF12

N78(Part27Q)

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630668	3460.02	22.99	-1.3	21.69	147.57	23
633334	3500.01	23.13	-1.3	21.83	152.41	23
636000	3540	23.09	-1.3	21.79	151.01	23

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631002	3465.03	23.09	-1.3	21.79	151.01	23
633334	3500.01	23.05	-1.3	21.75	149.62	23
635664	3534.96	23.12	-1.3	21.82	152.05	23

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631334	3470.01	23.03	-1.3	21.73	148.94	23
633334	3500.01	23.09	-1.3	21.79	151.01	23
635332	3529.98	23.17	-1.3	21.87	153.82	23



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**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631668	3475.02	23	-1.3	21.7	147.91	23
633334	3500.01	23.15	-1.3	21.85	153.11	23
634998	3524.97	23.14	-1.3	21.84	152.76	23

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632000	3480	23.07	-1.3	21.77	150.31	23
633334	3500.01	23.24	-1.3	21.94	156.31	23
634666	3519.99	23.26	-1.3	21.96	157.04	23

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632668	3490.02	23.01	-1.3	21.71	148.25	23
633334	3500.01	23.19	-1.3	21.89	154.53	23
634000	3510	23.17	-1.3	21.87	153.82	23

**CHANNEL BANDWIDTH: 90MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633000	3495	23.05	-1.3	21.75	149.62	23
633334	3500.01	23.23	-1.3	21.93	155.96	23
633666	3504.99	23.25	-1.3	21.95	156.68	23



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**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	23.14	-1.3	21.84	152.76	23

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	23.27	-1.3	21.97	157.4	23

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	22.17	-1.3	20.87	122.18	23

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	20.91	-1.3	19.61	91.41	23

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	18.86	-1.3	17.56	57.02	23

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





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5G SRS  
ANT2:

N41

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	22.96	-1.5	21.46	139.96	2
518598	2592.99	22.98	-1.5	21.48	140.6	2
535998	2679.99	23	-1.5	21.5	141.25	2

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	22.99	-1.5	21.49	140.93	2
518598	2592.99	23.05	-1.5	21.55	142.89	2
534996	2674.98	23.02	-1.5	21.52	141.91	2

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	22.97	-1.5	21.47	140.28	2
518598	2592.99	23	-1.5	21.5	141.25	2
534000	2670	22.99	-1.5	21.49	140.93	2

CHANNEL BANDWIDTH: 50MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	22.99	-1.5	21.49	140.93	2
518598	2592.99	23.01	-1.5	21.51	141.58	2
532998	2664.99	23	-1.5	21.5	141.25	2



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**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	22.93	-1.5	21.43	139	2
518598	2592.99	22.93	-1.5	21.43	139	2
531996	2659.98	22.9	-1.5	21.4	138.04	2

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	23	-1.5	21.5	141.25	2
518598	2592.99	22.99	-1.5	21.49	140.93	2
529998	2649.99	22.95	-1.5	21.45	139.64	2

**CHANNEL BANDWIDTH: 90MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	22.98	-1.5	21.48	140.6	2
518598	2592.99	23	-1.5	21.5	141.25	2
528996	2644.98	22.96	-1.5	21.46	139.96	2



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.02	-1.5	21.52	141.91	2
518598	2592.99	22.97	-1.5	21.47	140.28	2
528000	2640	22.94	-1.5	21.44	139.32	2

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.07	-1.5	21.57	143.55	2
518598	2592.99	22.96	-1.5	21.46	139.96	2
528000	2640	22.93	-1.5	21.43	139	2

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	21.93	-1.5	20.43	110.41	2
518598	2592.99	21.82	-1.5	20.32	107.65	2
528000	2640	21.8	-1.5	20.3	107.15	2

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	20.66	-1.5	19.16	82.41	2
518598	2592.99	20.6	-1.5	19.1	81.28	2
528000	2640	20.54	-1.5	19.04	80.17	2

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	18.73	-1.5	17.23	52.84	2
518598	2592.99	18.65	-1.5	17.15	51.88	2
528000	2640	18.63	-1.5	17.13	51.64	2

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



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ANT3:  
N41

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	22.92	-3	19.92	98.17	2
518598	2592.99	22.91	-3	19.91	97.95	2
535998	2679.99	23	-3	20	100	2

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	23.5	-3	20.5	112.2	2
518598	2592.99	23.01	-3	20.01	100.23	2
534996	2674.98	23.03	-3	20.03	100.69	2

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	22.92	-3	19.92	98.17	2
518598	2592.99	22.95	-3	19.95	98.86	2
534000	2670	22.91	-3	19.91	97.95	2

**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	22.94	-3	19.94	98.63	2
518598	2592.99	23	-3	20	100	2
532998	2664.99	23	-3	20	100	2



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**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	22.93	-3	19.93	98.4	2
518598	2592.99	22.91	-3	19.91	97.95	2
531996	2659.98	22.9	-3	19.9	97.72	2

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	23.01	-3	20.01	100.23	2
518598	2592.99	22.95	-3	19.95	98.86	2
529998	2649.99	22.93	-3	19.93	98.4	2

**CHANNEL BANDWIDTH: 90MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	22.99	-3	19.99	99.77	2
518598	2592.99	23.02	-3	20.02	100.46	2
528996	2644.98	22.91	-3	19.91	97.95	2



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**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.03	-3	20.03	100.69	2
518598	2592.99	22.99	-3	19.99	99.77	2
528000	2640	22.96	-3	19.96	99.08	2

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.06	-3	20.06	101.39	2
518598	2592.99	22.95	-3	19.95	98.86	2
528000	2640	22.87	-3	19.87	97.05	2

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	21.9	-3	18.9	77.62	2
518598	2592.99	21.76	-3	18.76	75.16	2
528000	2640	21.72	-3	18.72	74.47	2

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	20.69	-3	17.69	58.75	2
518598	2592.99	20.59	-3	17.59	57.41	2
528000	2640	20.52	-3	17.52	56.49	2

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	18.71	-3	15.71	37.24	2
518598	2592.99	18.65	-3	15.65	36.73	2
528000	2640	18.55	-3	15.55	35.89	2

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



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ANT4:  
N77(Part27Q)

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	22.9	-0.7	22.2	165.96	1
633334	3500.01	23.03	-0.7	22.33	171	1
636000	3540	23.05	-0.7	22.35	171.79	1

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631002	3465.03	23.01	-0.7	22.31	170.22	1
633334	3500.01	23.04	-0.7	22.34	171.4	1
635664	3534.96	23.1	-0.7	22.4	173.78	1

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	22.99	-0.7	22.29	169.43	1
633334	3500.01	23.05	-0.7	22.35	171.79	1
635332	3529.98	23.13	-0.7	22.43	174.98	1



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	23.05	-0.7	22.35	171.79	1
633334	3500.01	23.14	-0.7	22.44	175.39	1
634998	3524.97	23.07	-0.7	22.37	172.58	1

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	23	-0.7	22.3	169.82	1
633334	3500.01	23.07	-0.7	22.37	172.58	1
634666	3519.99	23.1	-0.7	22.4	173.78	1

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	23.04	-0.7	22.34	171.4	1
633334	3500.01	23.06	-0.7	22.36	172.19	1
634000	3510	23.17	-0.7	22.47	176.6	1





Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	23.11	-0.7	22.41	174.18	1

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	23.14	-0.7	22.44	175.39	1

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.16	-0.7	21.46	139.96	1

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	21.03	-0.7	20.33	107.89	1

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	18.98	-0.7	18.28	67.3	1

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



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Test Report No.: W7L-P23100014RF12

N77(Part270)

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	23.11	-0.7	22.41	174.18	1
656000	3840	23.18	-0.7	22.48	177.01	1
664666	3969.99	23.23	-0.7	22.53	179.06	1

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647670	3715.05	23.18	-0.7	22.48	177.01	1
656000	3840	23.19	-0.7	22.49	177.42	1
664332	3964.98	23.24	-0.7	22.54	179.47	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	23.15	-0.7	22.45	175.79	1
656000	3840	23.15	-0.7	22.45	175.79	1
664000	3960	23.15	-0.7	22.45	175.79	1



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**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648336	3725.04	23.18	-0.7	22.48	177.01	1
656000	3840	23.14	-0.7	22.44	175.39	1
663666	3954.99	23.19	-0.7	22.49	177.42	1

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648668	3730.02	23.17	-0.7	22.47	176.6	1
656000	3840	23.2	-0.7	22.5	177.83	1
663332	3949.98	23.23	-0.7	22.53	179.06	1

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649334	3740.01	23.22	-0.7	22.52	178.65	1
656000	3840	23.26	-0.7	22.56	180.3	1
662666	3939.99	23.27	-0.7	22.57	180.72	1



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	23.09	-0.7	22.39	173.38	1
656000	3840	23.21	-0.7	22.51	178.24	1
662000	3930	23.28	-0.7	22.58	181.13	1

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	23.12	-0.7	22.42	174.58	1
656000	3840	23.2	-0.7	22.5	177.83	1
662000	3930	23.33	-0.7	22.63	183.23	1

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	21.93	-0.7	21.23	132.74	1
656000	3840	22.01	-0.7	21.31	135.21	1
662000	3930	22.14	-0.7	21.44	139.32	1

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	20.77	-0.7	20.07	101.62	1
656000	3840	20.87	-0.7	20.17	103.99	1
662000	3930	20.94	-0.7	20.24	105.68	1

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	18.78	-0.7	18.08	64.27	1
656000	3840	18.86	-0.7	18.16	65.46	1
662000	3930	18.99	-0.7	18.29	67.45	1

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



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VERITAS

Test Report No.: W7L-P23100014RF12

N78(Part27Q)

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630668	3460.02	23.02	-0.7	22.32	170.61	23
633334	3500.01	23.19	-0.7	22.49	177.42	23
636000	3540	23.05	-0.7	22.35	171.79	23

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631002	3465.03	23.1	-0.7	22.4	173.78	23
633334	3500.01	23.07	-0.7	22.37	172.58	23
635664	3534.96	23.1	-0.7	22.4	173.78	23

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631334	3470.01	23.06	-0.7	22.36	172.19	23
633334	3500.01	23.1	-0.7	22.4	173.78	23
635332	3529.98	23.15	-0.7	22.45	175.79	23



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**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631668	3475.02	23.05	-0.7	22.35	171.79	23
633334	3500.01	23.16	-0.7	22.46	176.2	23
634998	3524.97	23.11	-0.7	22.41	174.18	23

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632000	3480	23.08	-0.7	22.38	172.98	23
633334	3500.01	23.21	-0.7	22.51	178.24	23
634666	3519.99	23.22	-0.7	22.52	178.65	23

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632668	3490.02	23.02	-0.7	22.32	170.61	23
633334	3500.01	23.07	-0.7	22.37	172.58	23
634000	3510	23.15	-0.7	22.45	175.79	23

**CHANNEL BANDWIDTH: 90MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633000	3495	23.09	-0.7	22.39	173.38	23
633334	3500.01	23.21	-0.7	22.51	178.24	23
633666	3504.99	23.23	-0.7	22.53	179.06	23



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**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	23.06	-0.7	22.36	172.19	23

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	23.24	-0.7	22.54	179.47	23

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	22.16	-0.7	21.46	139.96	23

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	20.86	-0.7	20.16	103.75	23

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	18.85	-0.7	18.15	65.31	23

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



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ANT5:  
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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
501204	2506.02	22.94	-1.1	21.84	152.76	2
518598	2592.99	22.99	-1.1	21.89	154.53	2
535998	2679.99	23.02	-1.1	21.92	155.6	2

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
502200	2511	23	-1.1	21.9	154.88	2
518598	2592.99	23.08	-1.1	21.98	157.76	2
534996	2674.98	23.01	-1.1	21.91	155.24	2

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
503202	2516.01	22.96	-1.1	21.86	153.46	2
518598	2592.99	22.98	-1.1	21.88	154.17	2
534000	2670	22.94	-1.1	21.84	152.76	2

**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
504204	2521.02	22.97	-1.1	21.87	153.82	2
518598	2592.99	23.03	-1.1	21.93	155.96	2
532998	2664.99	23.01	-1.1	21.91	155.24	2





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**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
505200	2526	22.94	-1.1	21.84	152.76	2
518598	2592.99	22.93	-1.1	21.83	152.41	2
531996	2659.98	22.91	-1.1	21.81	151.71	2

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
507204	2536.02	23	-1.1	21.9	154.88	2
518598	2592.99	22.98	-1.1	21.88	154.17	2
529998	2649.99	22.94	-1.1	21.84	152.76	2

**CHANNEL BANDWIDTH: 90MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
508200	2541	22.96	-1.1	21.86	153.46	2
518598	2592.99	23.01	-1.1	21.91	155.24	2
528996	2644.98	22.95	-1.1	21.85	153.11	2



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**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.07	-1.1	21.97	157.4	2
518598	2592.99	23.02	-1.1	21.92	155.6	2
528000	2640	22.98	-1.1	21.88	154.17	2

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	23.08	-1.1	21.98	157.76	2
518598	2592.99	22.9	-1.1	21.8	151.36	2
528000	2640	22.85	-1.1	21.75	149.62	2

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	21.89	-1.1	20.79	119.95	2
518598	2592.99	21.7	-1.1	20.6	114.82	2
528000	2640	21.69	-1.1	20.59	114.55	2

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	20.65	-1.1	19.55	90.16	2
518598	2592.99	20.58	-1.1	19.48	88.72	2
528000	2640	20.6	-1.1	19.5	89.13	2

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
509202	2546.01	18.68	-1.1	17.58	57.28	2
518598	2592.99	18.53	-1.1	17.43	55.34	2
528000	2640	18.5	-1.1	17.4	54.95	2

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



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**N77(Part27Q)**

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	22.98	-3.1	19.88	97.27	1
633334	3500.01	23.05	-3.1	19.95	98.86	1
636000	3540	23.07	-3.1	19.97	99.31	1

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631002	3465.03	23.03	-3.1	19.93	98.4	1
633334	3500.01	23.01	-3.1	19.91	97.95	1
635664	3534.96	23.09	-3.1	19.99	99.77	1

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	23	-3.1	19.9	97.72	1
633334	3500.01	23.09	-3.1	19.99	99.77	1
635332	3529.98	23.09	-3.1	19.99	99.77	1



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**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	23.03	-3.1	19.93	98.4	1
633334	3500.01	23.17	-3.1	20.07	101.62	1
634998	3524.97	23.12	-3.1	20.02	100.46	1

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	23.02	-3.1	19.92	98.17	1
633334	3500.01	23.1	-3.1	20	100	1
634666	3519.99	23.13	-3.1	20.03	100.69	1

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	23.03	-3.1	19.93	98.4	1
633334	3500.01	23.09	-3.1	19.99	99.77	1
634000	3510	23.12	-3.1	20.02	100.46	1



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**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	23.05	-3.1	19.95	98.86	1

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	23.13	-3.1	20.03	100.69	1

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.14	-3.1	19.04	80.17	1

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	20.98	-3.1	17.88	61.38	1

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	18.96	-3.1	15.86	38.55	1

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



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VERITAS

Test Report No.: W7L-P23100014RF12

N77(Part270)

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	23.21	-3.1	20.11	102.57	1
656000	3840	23.26	-3.1	20.16	103.75	1
664666	3969.99	23.25	-3.1	20.15	103.51	1

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647670	3715.05	23.19	-3.1	20.09	102.09	1
656000	3840	23.22	-3.1	20.12	102.8	1
664332	3964.98	23.27	-3.1	20.17	103.99	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	23.11	-3.1	20.01	100.23	1
656000	3840	23.16	-3.1	20.06	101.39	1
664000	3960	23.15	-3.1	20.05	101.16	1



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**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648336	3725.04	23.14	-3.1	20.04	100.93	1
656000	3840	23.16	-3.1	20.06	101.39	1
663666	3954.99	23.12	-3.1	20.02	100.46	1

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648668	3730.02	23.18	-3.1	20.08	101.86	1
656000	3840	23.21	-3.1	20.11	102.57	1
663332	3949.98	23.2	-3.1	20.1	102.33	1

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649334	3740.01	23.2	-3.1	20.1	102.33	1
656000	3840	23.22	-3.1	20.12	102.8	1
662666	3939.99	23.26	-3.1	20.16	103.75	1



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	23.05	-3.1	19.95	98.86	1
656000	3840	23.14	-3.1	20.04	100.93	1
662000	3930	23.28	-3.1	20.18	104.23	1

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	23.08	-3.1	19.98	99.54	1
656000	3840	23.14	-3.1	20.04	100.93	1
662000	3930	23.31	-3.1	20.21	104.95	1

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	21.92	-3.1	18.82	76.21	1
656000	3840	22.01	-3.1	18.91	77.8	1
662000	3930	22.15	-3.1	19.05	80.35	1

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	20.74	-3.1	17.64	58.08	1
656000	3840	20.8	-3.1	17.7	58.88	1
662000	3930	20.94	-3.1	17.84	60.81	1

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	18.72	-3.1	15.62	36.48	1
656000	3840	18.78	-3.1	15.68	36.98	1
662000	3930	18.92	-3.1	15.82	38.19	1

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





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Test Report No.: W7L-P23100014RF12

N78(Part27Q)

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630668	3460.02	23.08	-3.1	19.98	99.54	23
633334	3500.01	23.14	-3.1	20.04	100.93	23
636000	3540	23.16	-3.1	20.06	101.39	23

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631002	3465.03	23.1	-3.1	20	100	23
633334	3500.01	23.05	-3.1	19.95	98.86	23
635664	3534.96	23.14	-3.1	20.04	100.93	23

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631334	3470.01	23.18	-3.1	20.08	101.86	23
633334	3500.01	23.13	-3.1	20.03	100.69	23
635332	3529.98	23.11	-3.1	20.01	100.23	23



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**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631668	3475.02	23.09	-3.1	19.99	99.77	23
633334	3500.01	23.08	-3.1	19.98	99.54	23
634998	3524.97	23.16	-3.1	20.06	101.39	23

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632000	3480	23.18	-3.1	20.08	101.86	23
633334	3500.01	23.15	-3.1	20.05	101.16	23
634666	3519.99	23.2	-3.1	20.1	102.33	23

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632668	3490.02	23.12	-3.1	20.02	100.46	23
633334	3500.01	23.06	-3.1	19.96	99.08	23
634000	3510	23.14	-3.1	20.04	100.93	23

**CHANNEL BANDWIDTH: 90MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633000	3495	23.1	-3.1	20	100	23
633334	3500.01	23.23	-3.1	20.13	103.04	23
633666	3504.99	23.18	-3.1	20.08	101.86	23



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	23.03	-3.1	19.93	98.4	23

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	23.2	-3.1	20.1	102.33	23

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	22.1	-3.1	19	79.43	23

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	20.85	-3.1	17.75	59.57	23

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	18.8	-3.1	15.7	37.15	23

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



Test Report No.: W7L-P23100014RF12

ANT6:  
N77(Part27Q)

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
630668	3460.02	22.95	-1.1	21.85	153.11	1
633334	3500.01	23.01	-1.1	21.91	155.24	1
636000	3540	23.03	-1.1	21.93	155.96	1

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631002	3465.03	23.01	-1.1	21.91	155.24	1
633334	3500.01	23.06	-1.1	21.96	157.04	1
635664	3534.96	23.05	-1.1	21.95	156.68	1

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631334	3470.01	23.05	-1.1	21.95	156.68	1
633334	3500.01	23.1	-1.1	22	158.49	1
635332	3529.98	23.01	-1.1	21.91	155.24	1



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
631668	3475.02	23.01	-1.1	21.91	155.24	1
633334	3500.01	23.09	-1.1	21.99	158.12	1
634998	3524.97	23.15	-1.1	22.05	160.32	1

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632000	3480	23.05	-1.1	21.95	156.68	1
633334	3500.01	23.09	-1.1	21.99	158.12	1
634666	3519.99	23.15	-1.1	22.05	160.32	1

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
632668	3490.02	23.01	-1.1	21.91	155.24	1
633334	3500.01	23.02	-1.1	21.92	155.6	1
634000	3510	23.07	-1.1	21.97	157.4	1



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	23.02	-1.1	21.92	155.6	1

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	23.13	-1.1	22.03	159.59	1

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	22.08	-1.1	20.98	125.31	1

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	20.97	-1.1	19.87	97.05	1

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
633334	3500.01	18.91	-1.1	17.81	60.39	1

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



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Test Report No.: W7L-P23100014RF12

N77(Part270)

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647334	3710.01	23.28	-1.1	22.18	165.2	1
656000	3840	23.21	-1.1	22.11	162.55	1
664666	3969.99	23.24	-1.1	22.14	163.68	1

CHANNEL BANDWIDTH: 30MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
647670	3715.05	23.2	-1.1	22.1	162.18	1
656000	3840	23.21	-1.1	22.11	162.55	1
664332	3964.98	23.27	-1.1	22.17	164.82	1

CHANNEL BANDWIDTH: 40MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648000	3720	23.14	-1.1	22.04	159.96	1
656000	3840	23.19	-1.1	22.09	161.81	1
664000	3960	23.22	-1.1	22.12	162.93	1



Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648336	3725.04	23.16	-1.1	22.06	160.69	1
656000	3840	23.11	-1.1	22.01	158.85	1
663666	3954.99	23.15	-1.1	22.05	160.32	1

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
648668	3730.02	23.15	-1.1	22.05	160.32	1
656000	3840	23.23	-1.1	22.13	163.31	1
663332	3949.98	23.2	-1.1	22.1	162.18	1

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
649334	3740.01	23.19	-1.1	22.09	161.81	1
656000	3840	23.23	-1.1	22.13	163.31	1
662666	3939.99	23.26	-1.1	22.16	164.44	1





Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	23.08	-1.1	21.98	157.76	1
656000	3840	23.17	-1.1	22.07	161.06	1
662000	3930	23.29	-1.1	22.19	165.58	1

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	23.16	-1.1	22.06	160.69	1
656000	3840	23.23	-1.1	22.13	163.31	1
662000	3930	23.34	-1.1	22.24	167.49	1

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	22.02	-1.1	20.92	123.59	1
656000	3840	22.13	-1.1	21.03	126.77	1
662000	3930	22.25	-1.1	21.15	130.32	1

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	20.78	-1.1	19.68	92.9	1
656000	3840	20.81	-1.1	19.71	93.54	1
662000	3930	20.99	-1.1	19.89	97.5	1

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
650000	3750	18.78	-1.1	17.68	58.61	1
656000	3840	18.79	-1.1	17.69	58.75	1
662000	3930	18.95	-1.1	17.85	60.95	1

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



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Test Report No.: W7L-P23100014RF12

N78(Part27Q)

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
630668	3460.02	23.12	-1.1	22.02	159.22	23
633334	3500.01	23.16	-1.1	22.06	160.69	23
636000	3540	23.18	-1.1	22.08	161.44	23

**CHANNEL BANDWIDTH: 30MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631002	3465.03	23.12	-1.1	22.02	159.22	23
633334	3500.01	23.09	-1.1	21.99	158.12	23
635664	3534.96	23.12	-1.1	22.02	159.22	23

**CHANNEL BANDWIDTH: 40MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631334	3470.01	23.2	-1.1	22.1	162.18	23
633334	3500.01	23.15	-1.1	22.05	160.32	23
635332	3529.98	23.17	-1.1	22.07	161.06	23



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**CHANNEL BANDWIDTH: 50MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
631668	3475.02	23.12	-1.1	22.02	159.22	23
633334	3500.01	23.14	-1.1	22.04	159.96	23
634998	3524.97	23.16	-1.1	22.06	160.69	23

**CHANNEL BANDWIDTH: 60MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632000	3480	23.15	-1.1	22.05	160.32	23
633334	3500.01	23.11	-1.1	22.01	158.85	23
634666	3519.99	23.18	-1.1	22.08	161.44	23

**CHANNEL BANDWIDTH: 80MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
632668	3490.02	23.11	-1.1	22.01	158.85	23
633334	3500.01	23.02	-1.1	21.92	155.6	23
634000	3510	23.12	-1.1	22.02	159.22	23

**CHANNEL BANDWIDTH: 90MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633000	3495	23.08	-1.1	21.98	157.76	23
633334	3500.01	23.21	-1.1	22.11	162.55	23
633666	3504.99	23.15	-1.1	22.05	160.32	23



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**CHANNEL BANDWIDTH: 100MHz Pi/2 BPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	23.06	-1.1	21.96	157.04	23

**CHANNEL BANDWIDTH: 100MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	23.21	-1.1	22.11	162.55	23

**CHANNEL BANDWIDTH: 100MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	22.11	-1.1	21.01	126.18	23

**CHANNEL BANDWIDTH: 100MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	20.92	-1.1	19.82	95.94	23

**CHANNEL BANDWIDTH: 100MHz 256QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm/10MHz)
633334	3500.01	18.88	-1.1	17.78	59.98	23

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

### 3.2 FREQUENCY STABILITY MEASUREMENT

#### 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

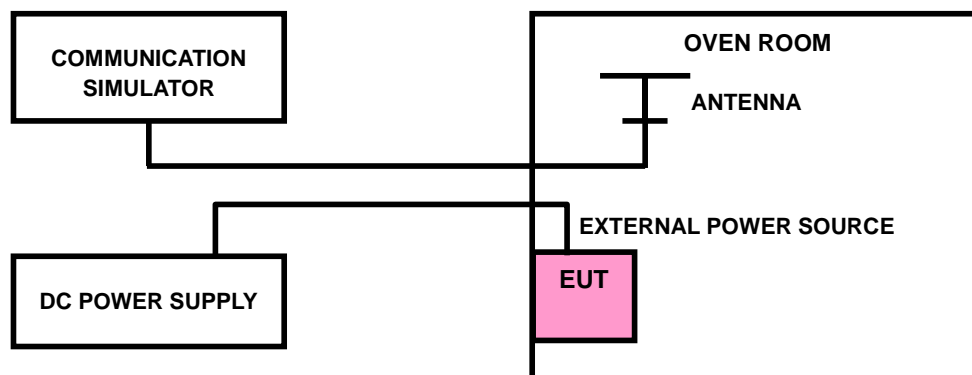
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

#### 3.2.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

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

#### 3.2.3 TEST SETUP





Test Report No.: W7L-P23100014RF12

### 3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

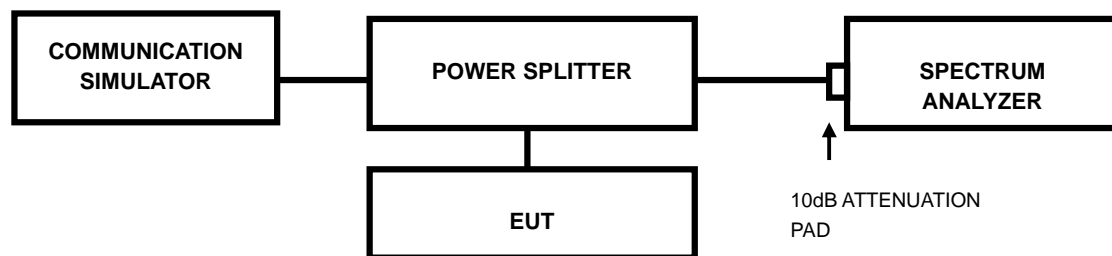
Note: VL = Low voltage(3.6V); VN/NV = Normal voltage(3.7V); VH = High voltage(4.2V);  
NT = Normal temperature (25°C)

### 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

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



Test Report No.: W7L-P23100014RF12

### 3.3.4 TEST RESULTS

Please Refer to Appendix 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.(n7/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;

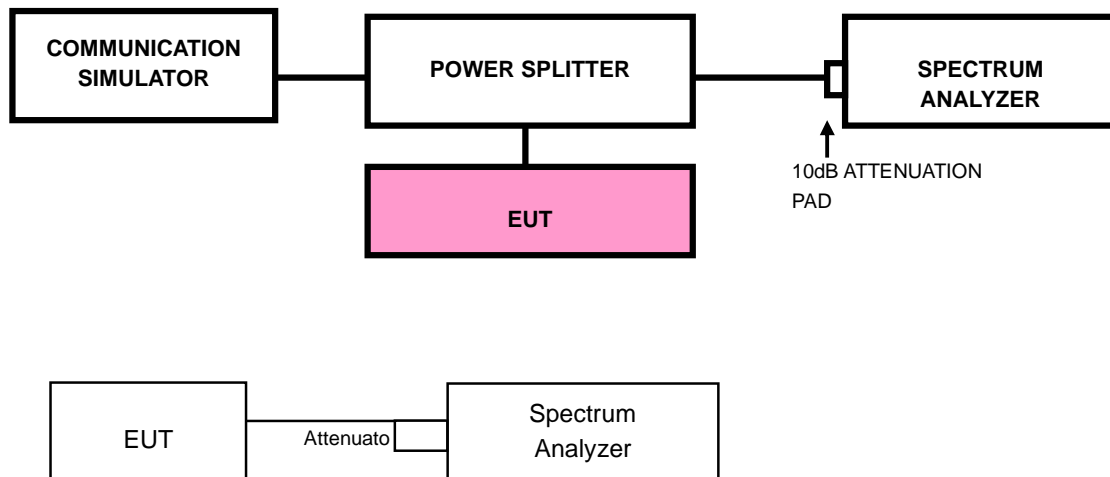
(ii) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305 MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300 MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296 MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292 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  $\geq 1001$ .
- 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.



Test Report No.: W7L-P23100014RF12

### 3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

### 3.5 CONDUCTED SPURIOUS EMISSIONS

#### 3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside 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.

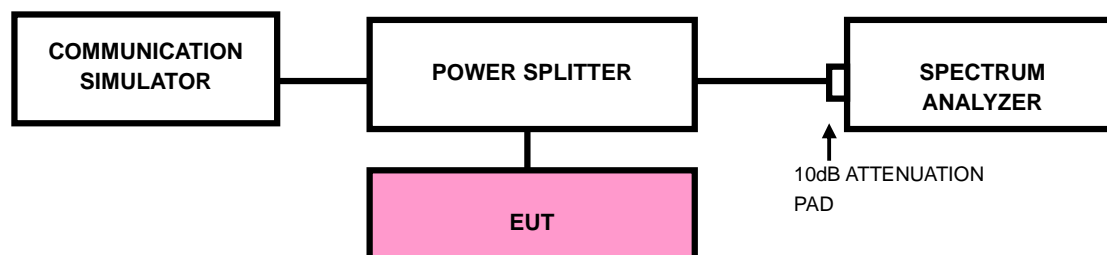
For 5G NR n41:

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 10<sup>th</sup> harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

#### 3.5.3 TEST SETUP





Test Report No.: W7L-P23100014RF12

### 3.5.4 TEST RESULTS

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

Please Refer to Appendix Of this test report.



### 3.6 RADIATED EMISSION MEASUREMENT

#### 3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside 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 n7/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.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ .
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}$ .

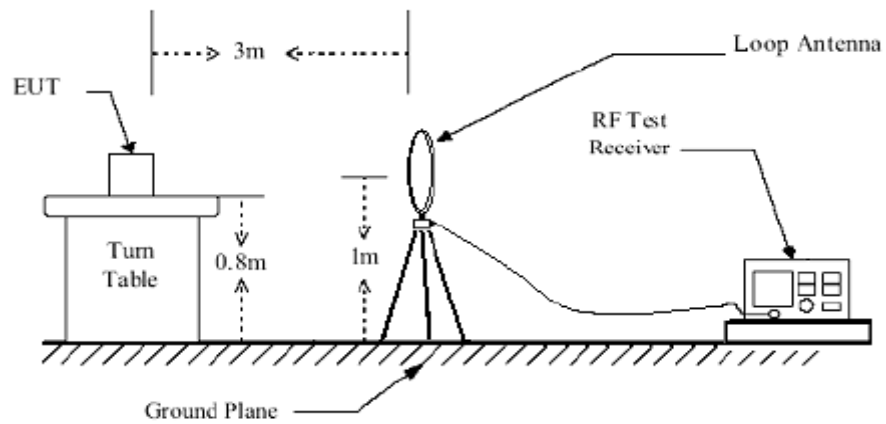
**NOTE:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

#### 3.6.3 DEVIATION FROM TEST STANDARD

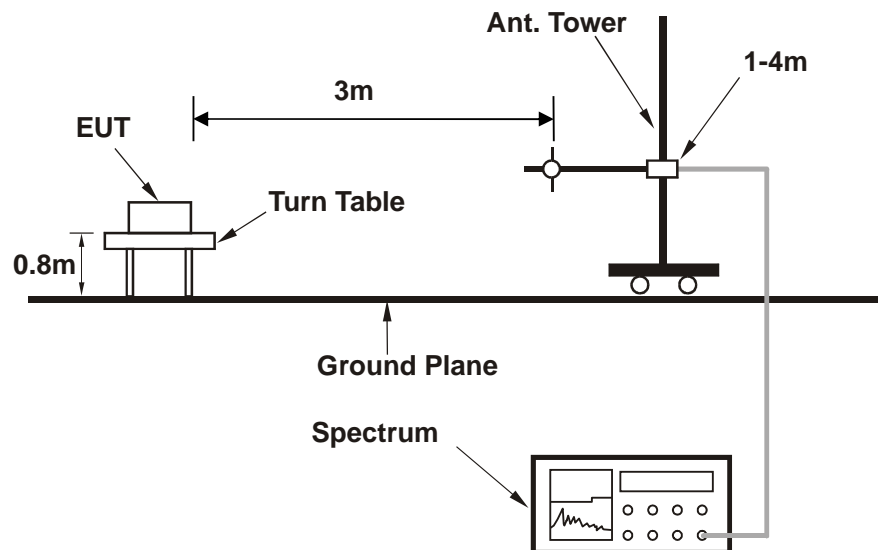
No deviation

### 3.6.4 TEST SETUP

#### < Frequency Range below 30MHz >

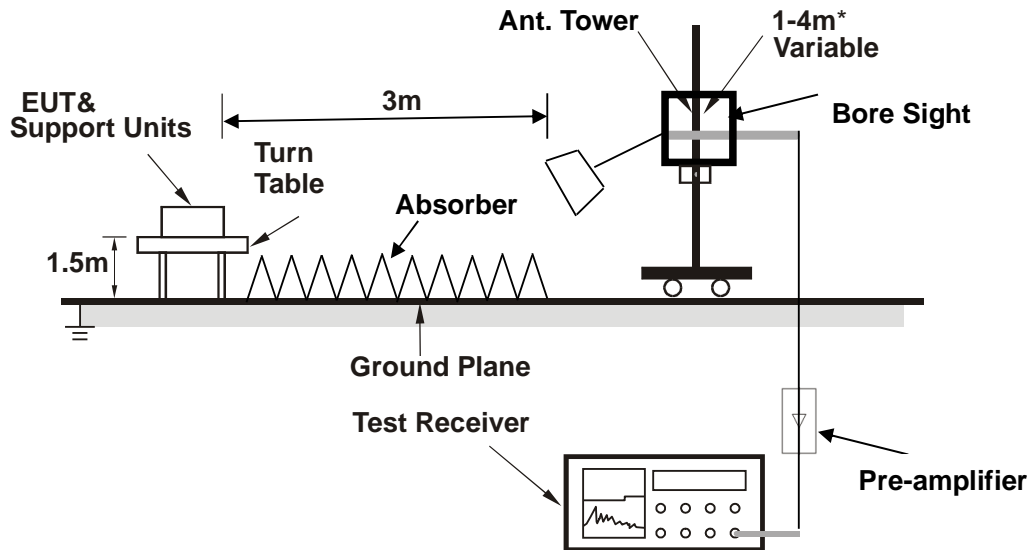


#### < Frequency Range 30MHz~1GHz >





<Frequency Range above 1GHz>



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

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



Test Report No.: W7L-P23100014RF12

### 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

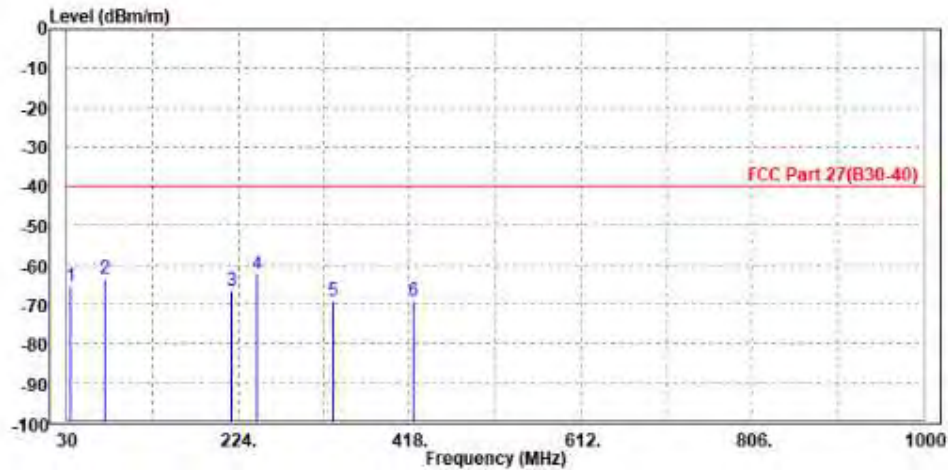
30 MHz – 1GHz data:

N30

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 462000	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	34.850	-65.28	-53.24	-40.00	-25.28	-12.04	Peak	Horizontal
2	72.680	-63.62	-42.37	-40.00	-23.62	-21.25	Peak	Horizontal
3	216.240	-66.66	-51.18	-40.00	-26.66	-15.48	Peak	Horizontal
4 PP	244.370	-62.47	-50.35	-40.00	-22.47	-12.12	Peak	Horizontal
5	331.670	-69.22	-57.53	-40.00	-29.22	-11.69	Peak	Horizontal
6	422.850	-69.03	-59.41	-40.00	-29.03	-9.62	Peak	Horizontal

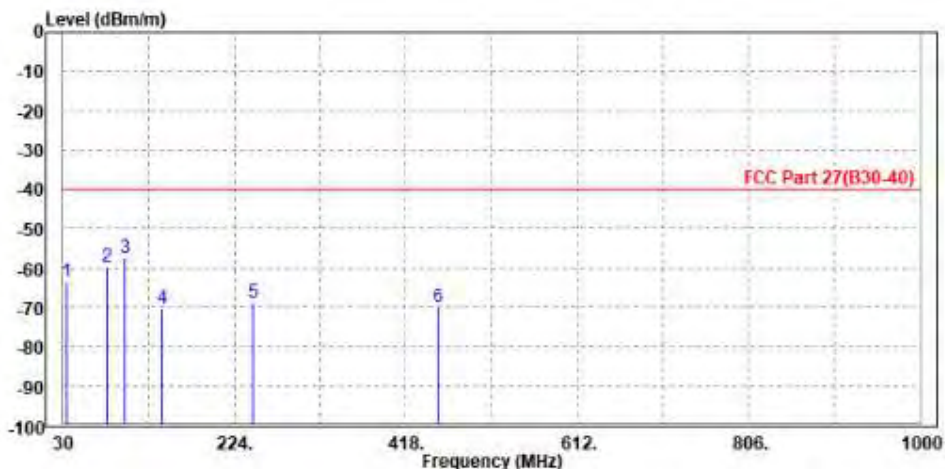




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 462000	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	34.850	-63.55	-42.98	-40.00	-23.55	-20.57	Peak	Vertical
2	80.440	-59.80	-40.80	-40.00	-19.80	-19.00	Peak	Vertical
3 PP	99.840	-57.57	-51.06	-40.00	-17.57	-6.51	Peak	Vertical
4	142.520	-70.28	-56.03	-40.00	-30.28	-14.25	Peak	Vertical
5	244.370	-68.83	-54.73	-40.00	-28.83	-14.10	Peak	Vertical
6	453.890	-70.02	-61.52	-40.00	-30.02	-8.50	Peak	Vertical





Test Report No.: W7L-P23100014RF12

**ABOVE 1GHz**

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

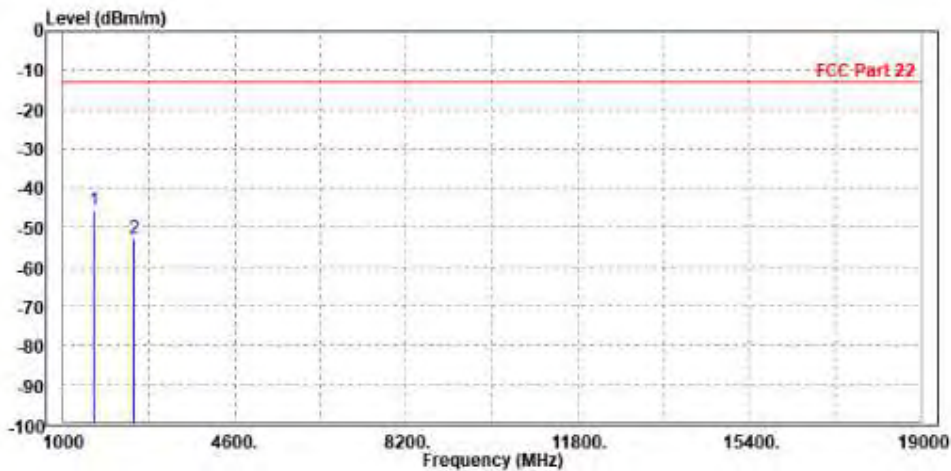
**N5**

**CHANNEL BANDWIDTH: 5MHz / QPSK**

**CH 165300:**

<b>MODE</b>	TX channel 165300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1648.000	-45.69	-46.46	-13.00	-32.69	0.77	Peak	Horizontal
2	2479.500	-52.66	-58.02	-13.00	-39.66	5.36	Peak	Horizontal

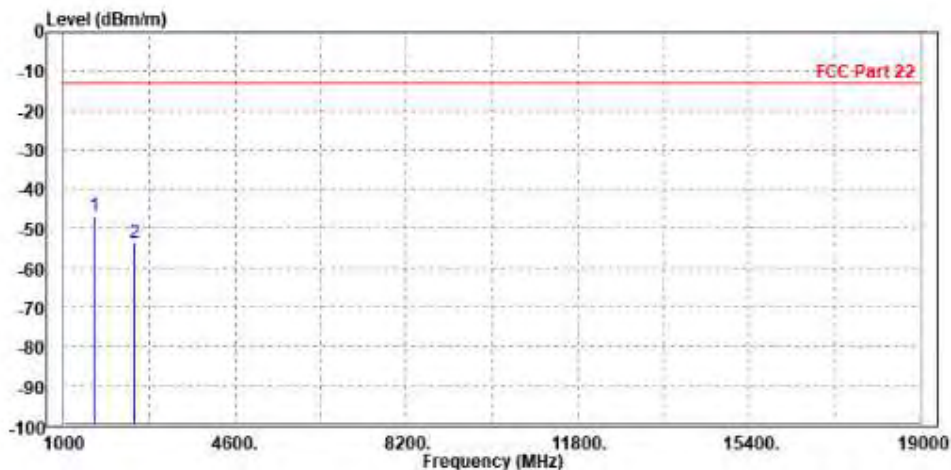




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 165300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1653.000	-46.63	-47.70	-13.00	-33.63	1.07	Peak	Vertical
2	2476.000	-53.45	-58.32	-13.00	-40.45	4.87	Peak	Vertical



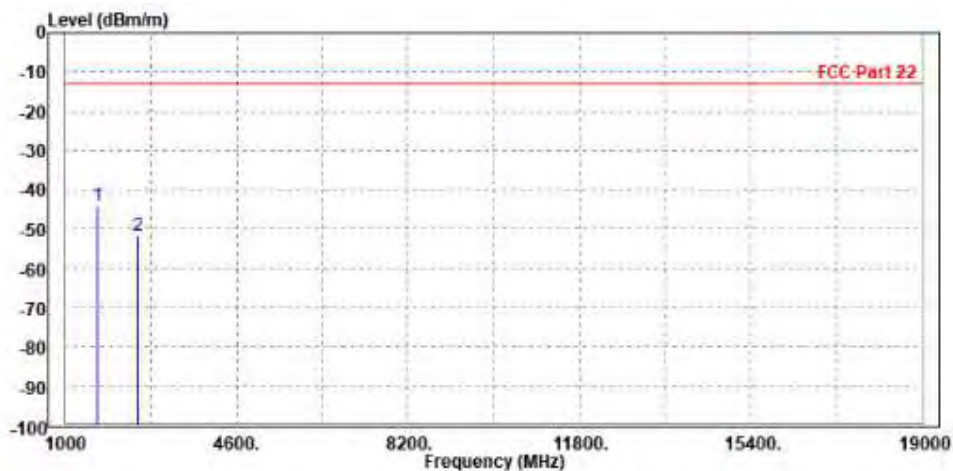


Test Report No.: W7L-P23100014RF12

CH 167300:

<b>MODE</b>	TX channel 167300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1673.000	-44.19	-45.17	-13.00	-31.19	0.98	Peak	Horizontal
2	2512.000	-51.81	-57.28	-13.00	-38.81	5.47	Peak	Horizontal

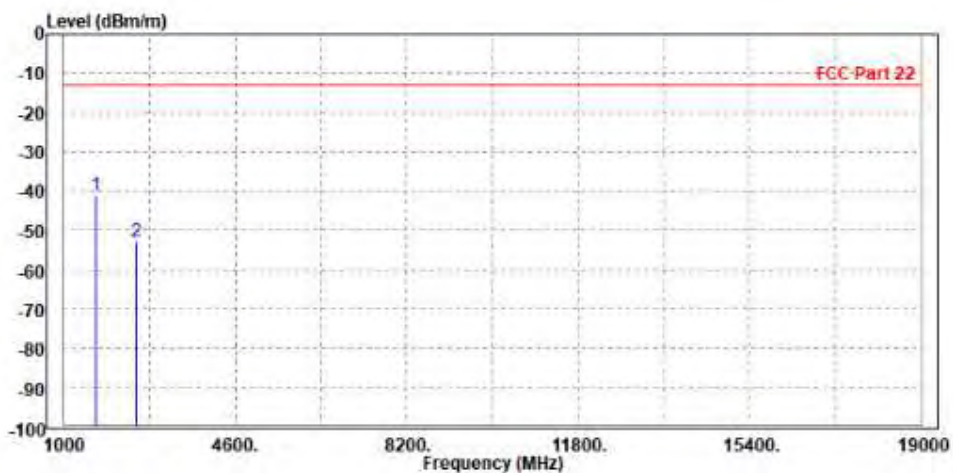




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 167300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-41.12	-42.29	-13.00	-28.12	1.17	Peak	Vertical
2	2509.500	-52.93	-57.90	-13.00	-39.93	4.97	Peak	Vertical



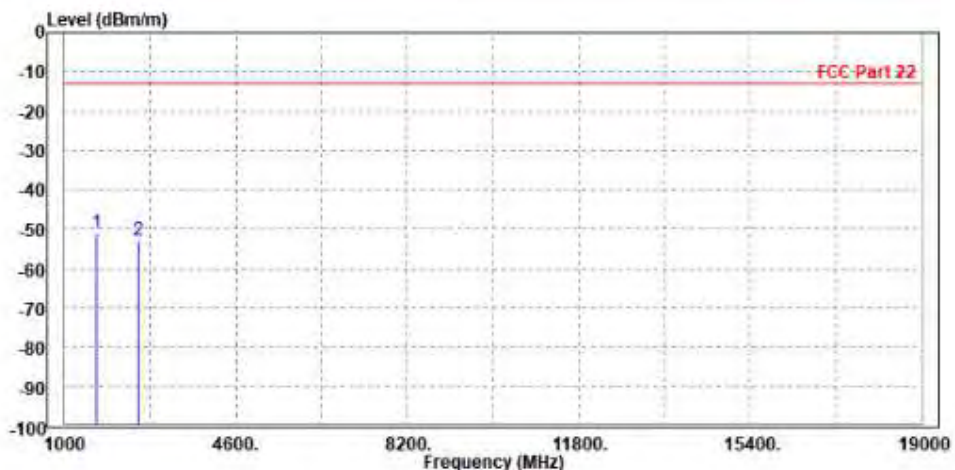


Test Report No.: W7L-P23100014RF12

CH 169300:

<b>MODE</b>	TX channel 169300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1684.000	-51.06	-52.13	-13.00	-38.06	1.07	Peak	Horizontal
2	2548.000	-52.72	-58.27	-13.00	-39.72	5.55	Peak	Horizontal



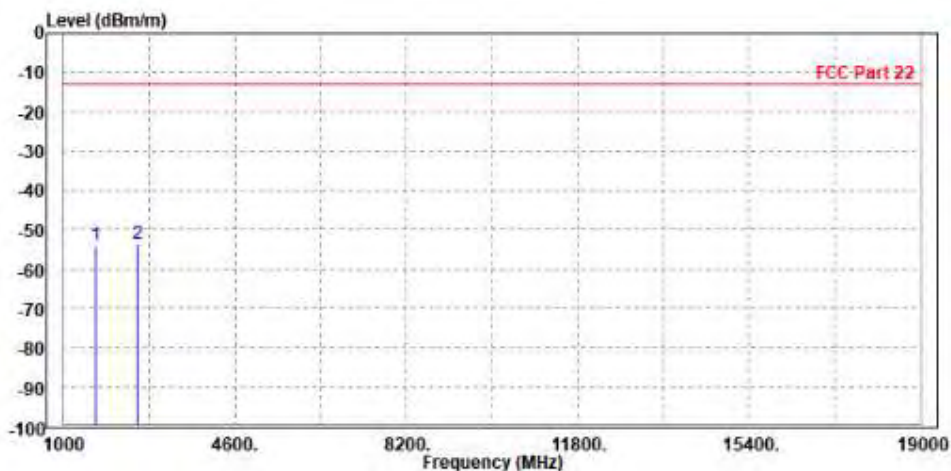




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 169300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1684.000	-53.82	-55.12	-13.00	-40.82	1.30	Peak	Vertical
2 PP	2539.500	-53.72	-58.79	-13.00	-40.72	5.07	Peak	Vertical



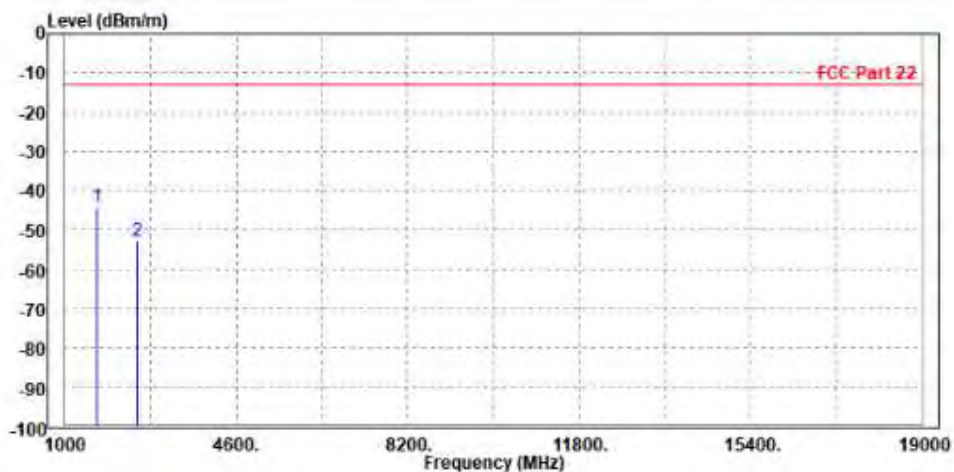


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 10MHz / QPSK**

<b>MODE</b>	TX channel 167300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-44.10	-45.02	-13.00	-31.10	0.92	Peak	Horizontal
2	2509.500	-52.73	-58.19	-13.00	-39.73	5.46	Peak	Horizontal

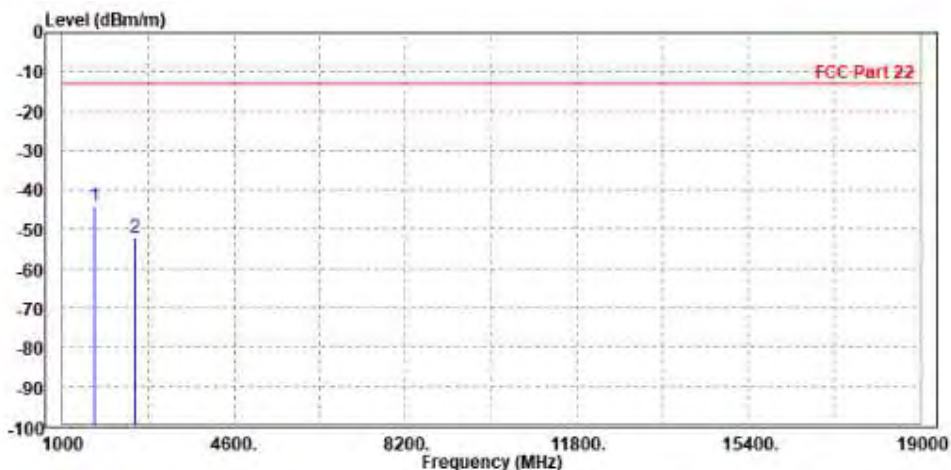




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 167300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	PoI/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-44.00	-45.17	-13.00	-31.00	1.17	Peak	Vertical
2	2512.000	-52.23	-57.21	-13.00	-39.23	4.98	Peak	Vertical



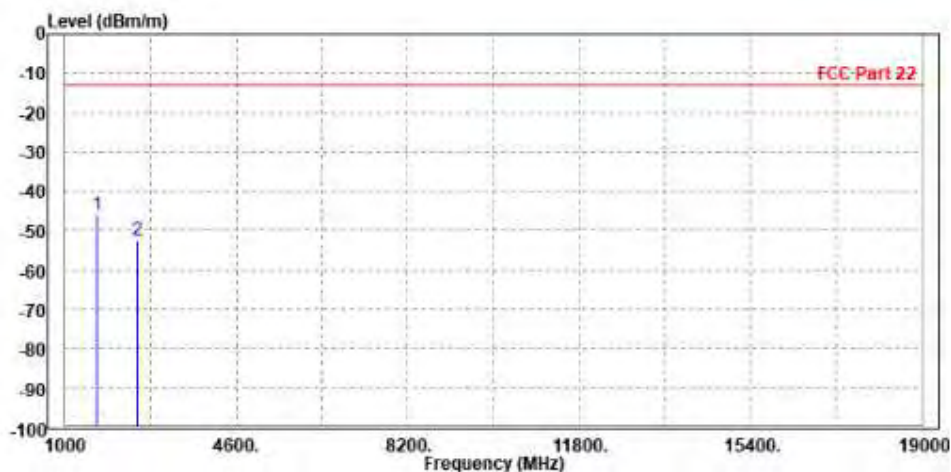


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 15MHz / QPSK**

<b>MODE</b>	TX channel 167300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-46.06	-46.98	-13.00	-33.06	0.92	Peak	Horizontal
2	2512.000	-52.28	-57.75	-13.00	-39.28	5.47	Peak	Horizontal

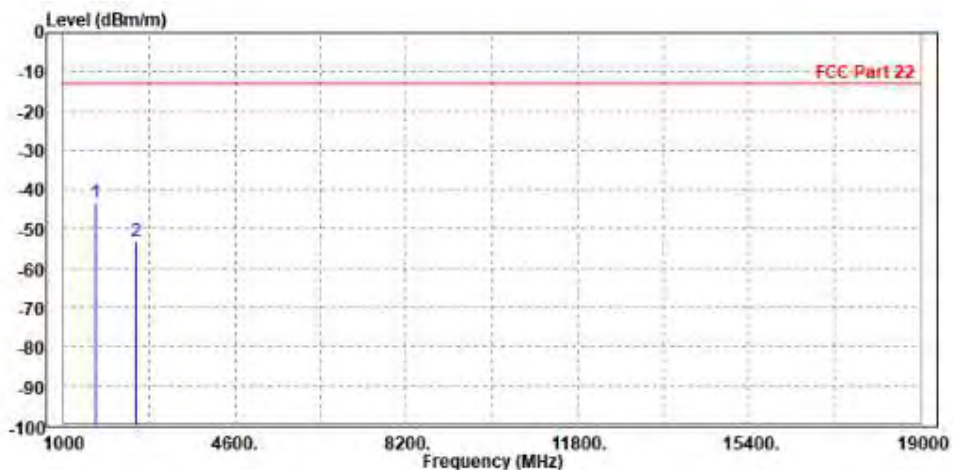




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 167300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-43.25	-44.42	-13.00	-30.25	1.17	Peak	Vertical
2	2509.500	-53.24	-58.21	-13.00	-40.24	4.97	Peak	Vertical



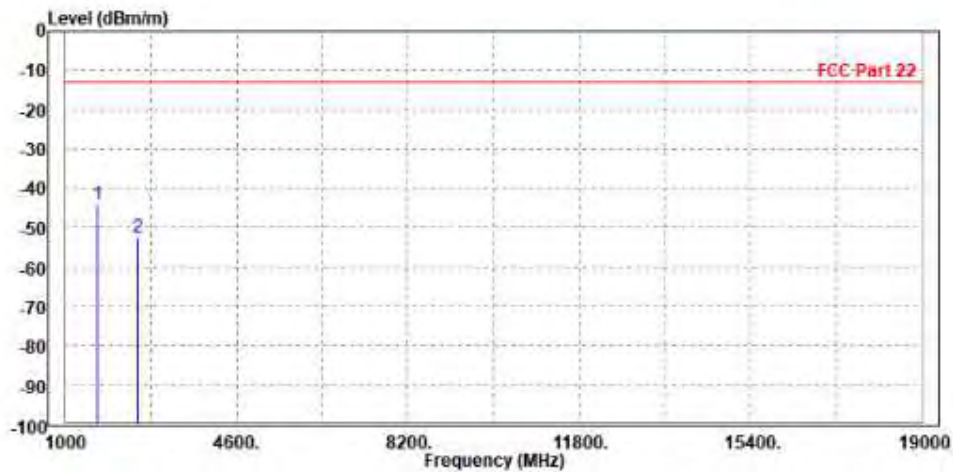


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 20MHz / QPSK**

<b>MODE</b>	TX channel 167300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-44.25	-45.17	-13.00	-31.25	0.92	Peak	Horizontal
2	2512.000	-52.42	-57.89	-13.00	-39.42	5.47	Peak	Horizontal

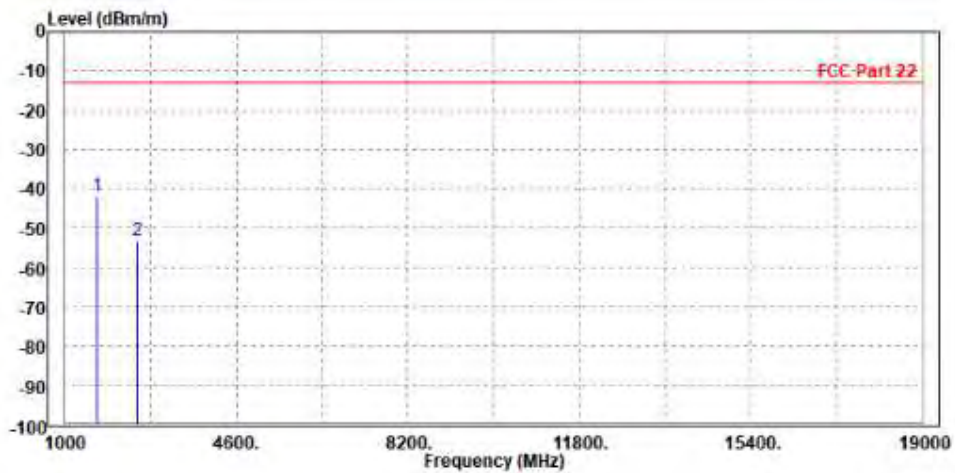




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 167300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-41.76	-42.93	-13.00	-28.76	1.17	Peak	Vertical
2	2512.000	-53.22	-58.20	-13.00	-40.22	4.98	Peak	Vertical





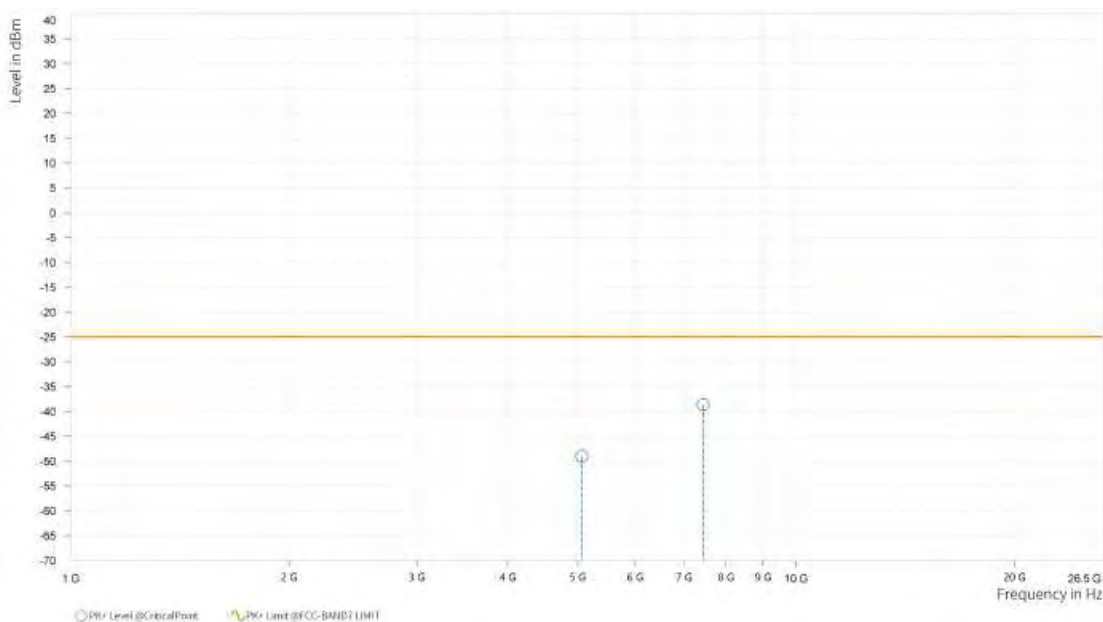
Test Report No.: W7L-P23100014RF12

N7

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 507000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,065.500	-49.03	-25.00	24.03	25.73	H	199.2	1
5	7,441.500	-38.68	-25.00	13.68	31.60	H	286.4	1



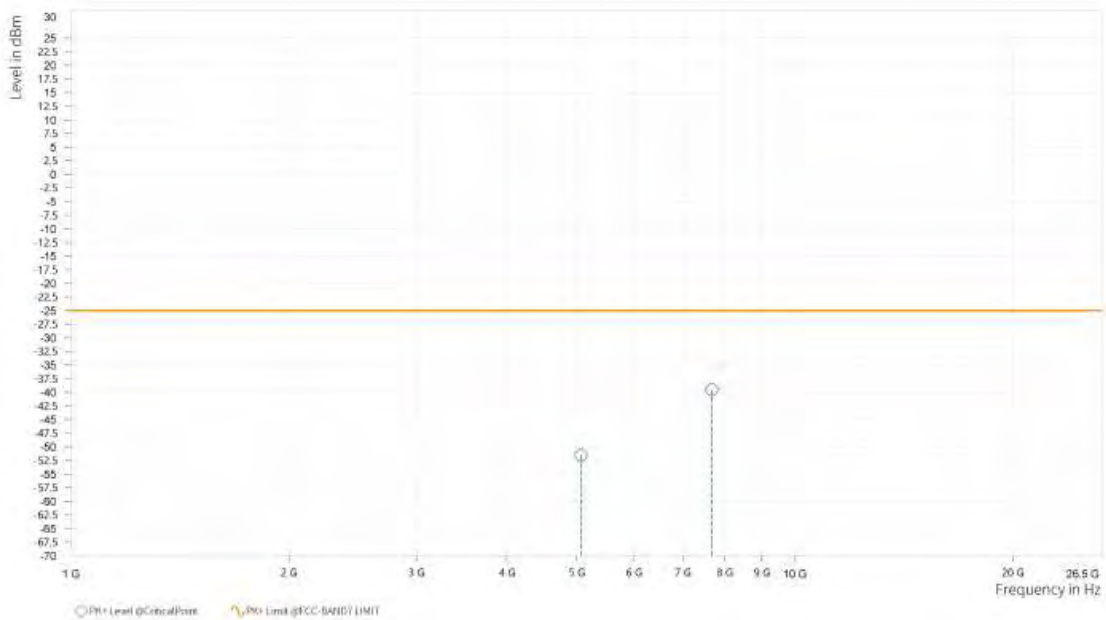




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 507000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,065.500	-51.52	-25.00	26.52	25.65	V	1	1
5	7,673.000	-39.55	-25.00	14.55	32.69	V	1	2





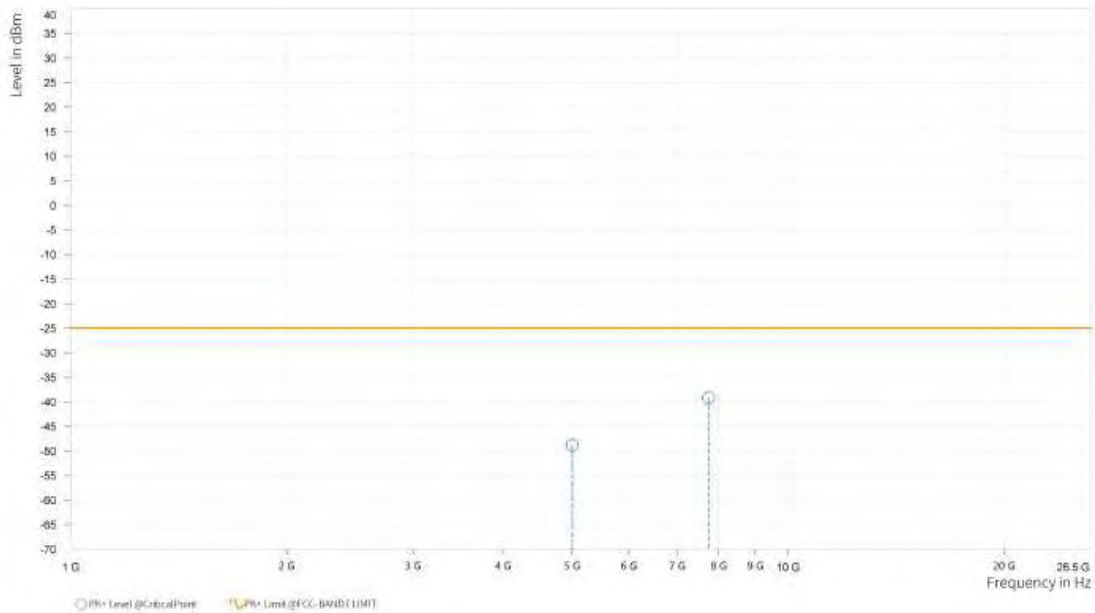
Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 10MHz / QPSK**

**CH 501000:**

<b>MODE</b>	TX channel 501000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,001.000	-48.84	-25.00	23.84	25.50	H	158.3	2
5	7,744.500	-39.18	-25.00	14.18	32.82	H	359	2

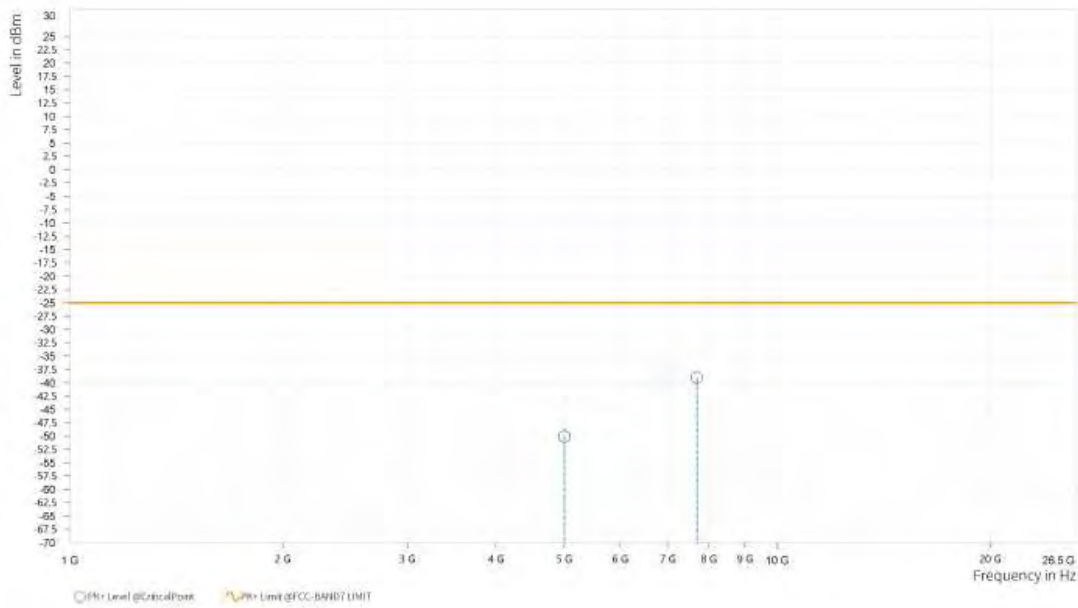




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 501000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,001.500	-50.11	-25.00	25.11	25.34	V	157.2	2
5	7,704.000	-39.03	-25.00	14.03	32.90	V	1	2



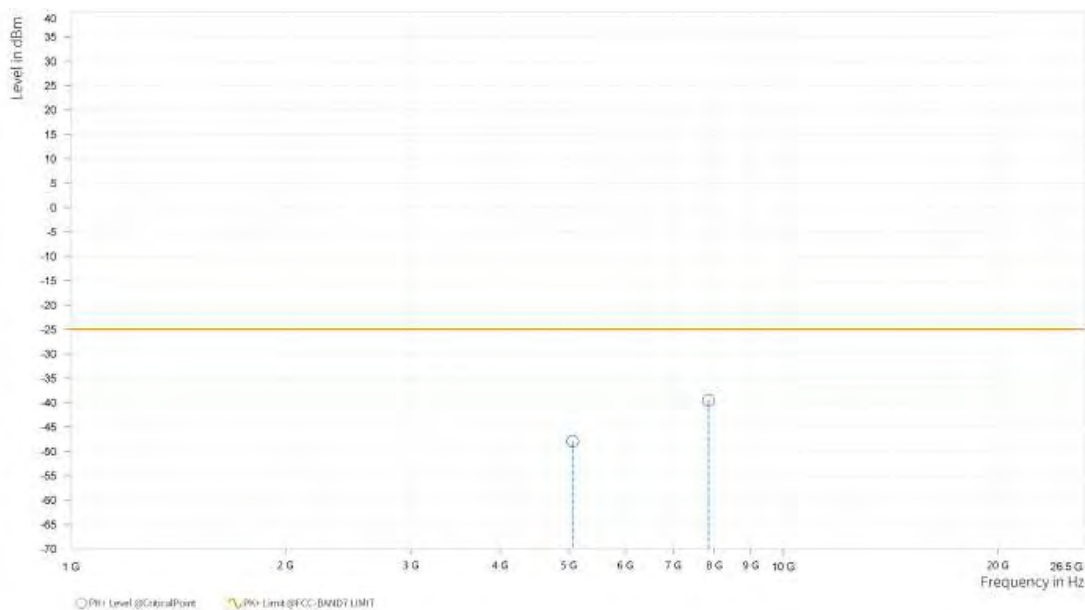


Test Report No.: W7L-P23100014RF12

CH 507000:

<b>MODE</b>	TX channel 507000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,061.000	-47.95	-25.00	22.95	25.69	H	198	1
5	7,853.000	-39.55	-25.00	14.55	32.98	H	359	2

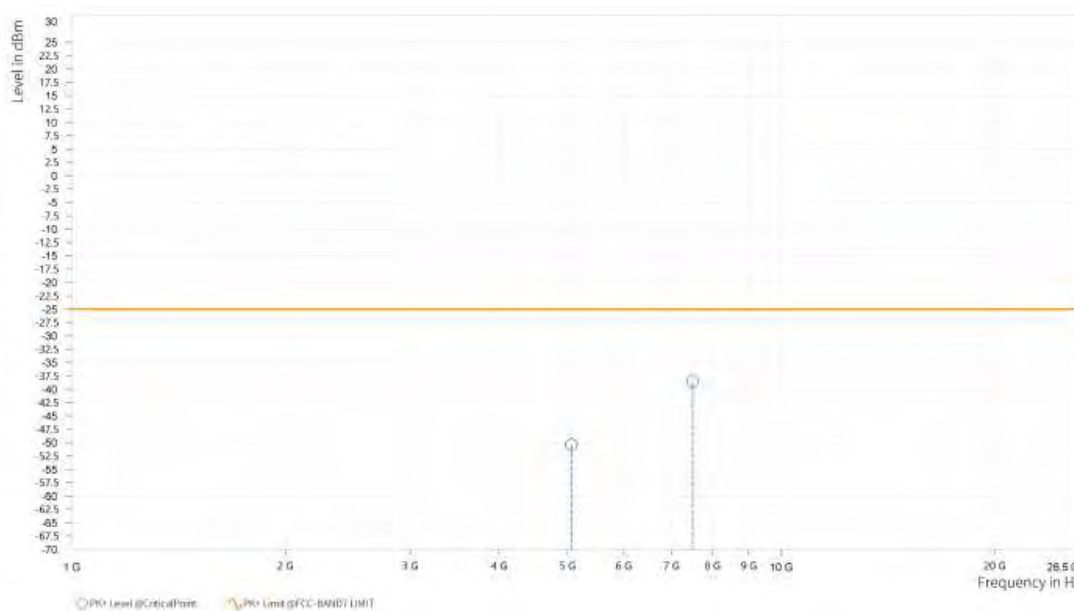




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 507000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,060.500	-50.42	-25.00	25.42	25.59	V	1	1
5	7,502.000	-38.48	-25.00	13.48	31.91	V	285.2	1



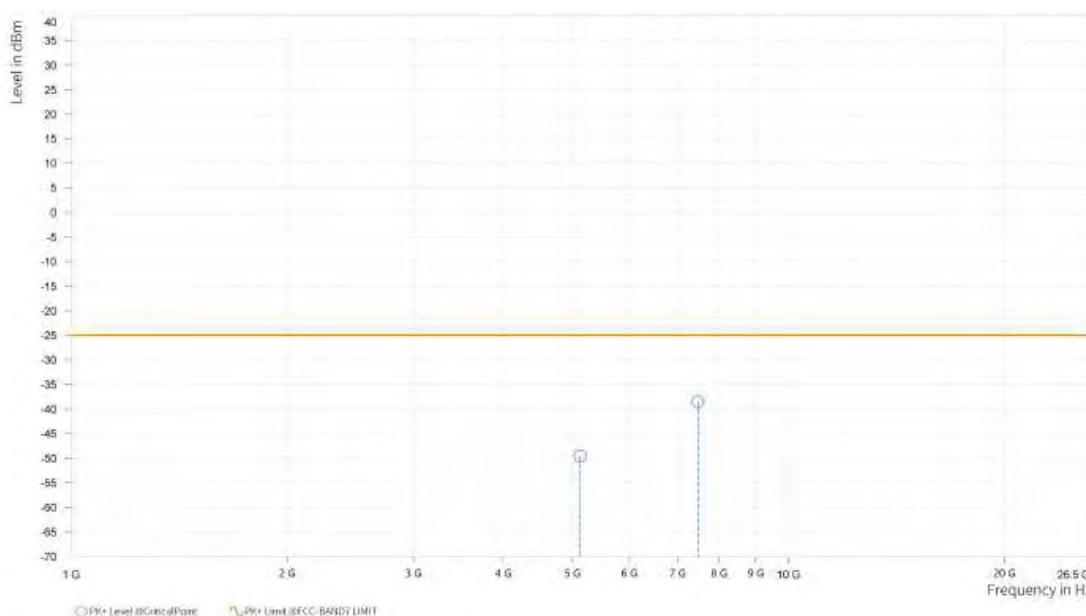


Test Report No.: W7L-P23100014RF12

CH 513000:

<b>MODE</b>	TX channel 513000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,121.000	-49.53	-25.00	24.53	26.18	H	359.1	1
5	7,474.500	-38.50	-25.00	13.50	31.69	H	359	2

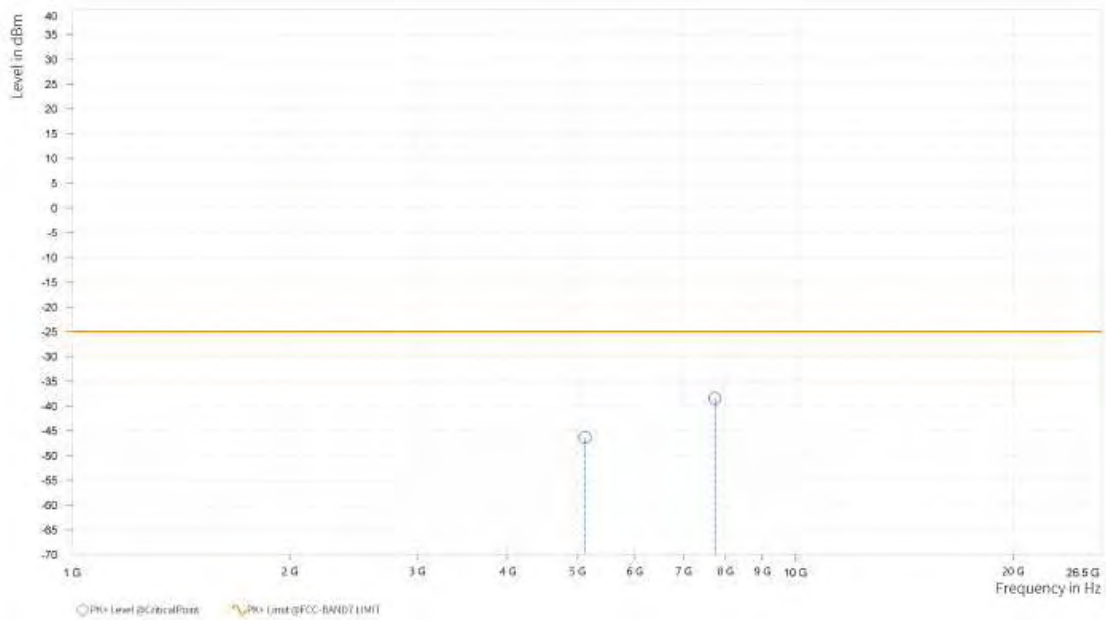




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 513000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,121.000	-46.32	-25.00	21.32	26.22	V	359	2
5	7,740.000	-38.48	-25.00	13.48	33.04	V	359	2



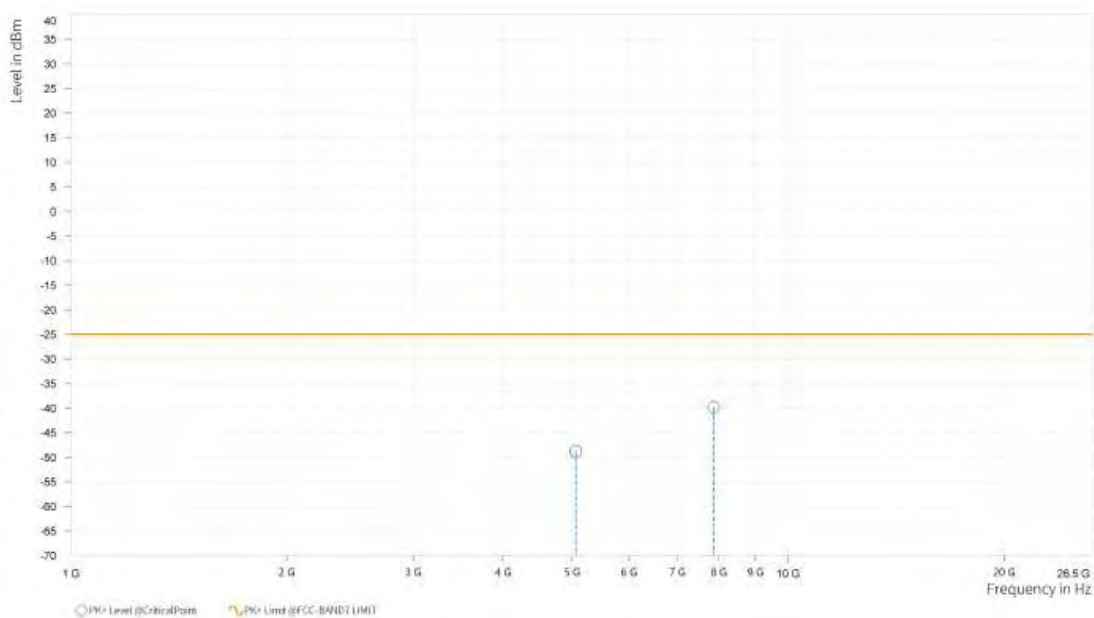


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 15MHz / QPSK**

<b>MODE</b>	TX channel 507000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,055.500	-48.80	-25.00	23.80	25.68	H	359	1
5	7,871.500	-39.79	-25.00	14.79	33.00	H	358.2	1



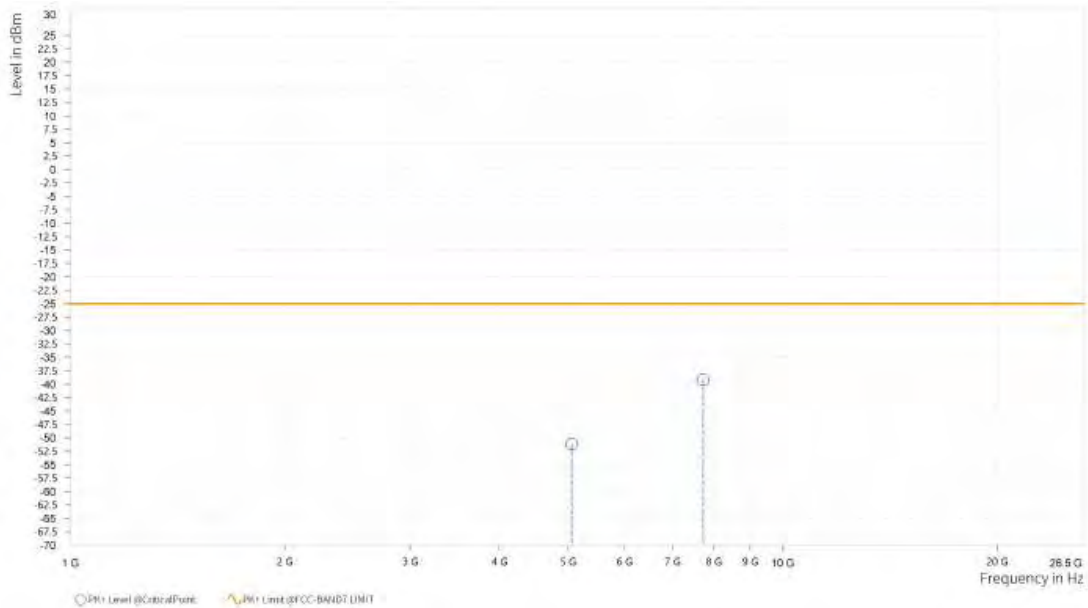




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 507000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,056.000	-51.20	-25.00	26.20	25.55	V	159.6	2
5	7,728.500	-39.20	-25.00	14.20	33.00	V	1	1



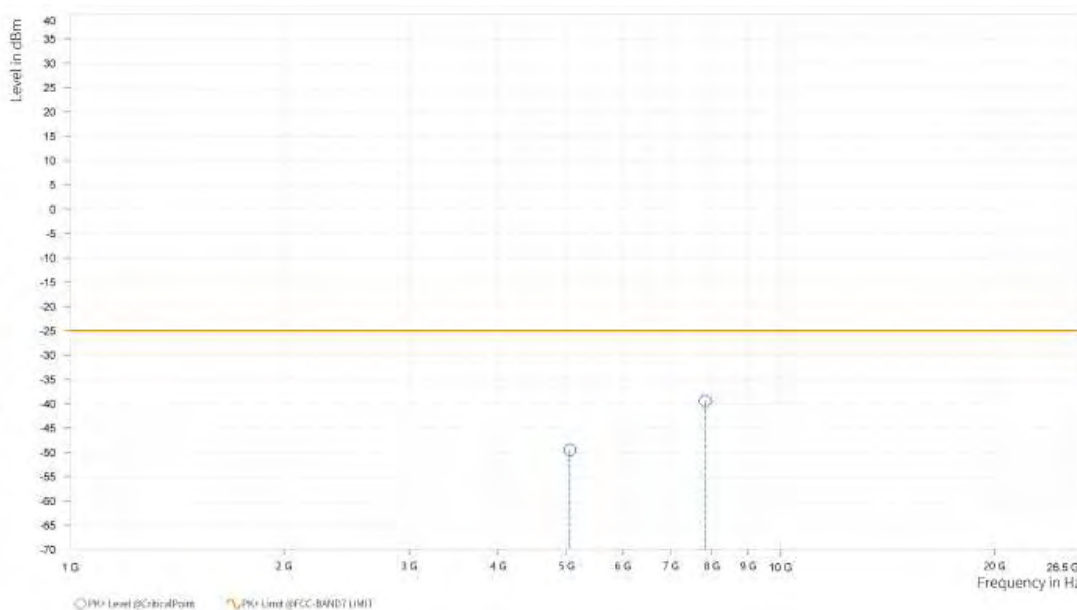


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 20MHz / QPSK**

<b>MODE</b>	TX channel 507000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,051.000	-49.49	-25.00	24.49	25.67	H	359	1
5	7,832.000	-39.50	-25.00	14.50	32.96	H	1	2

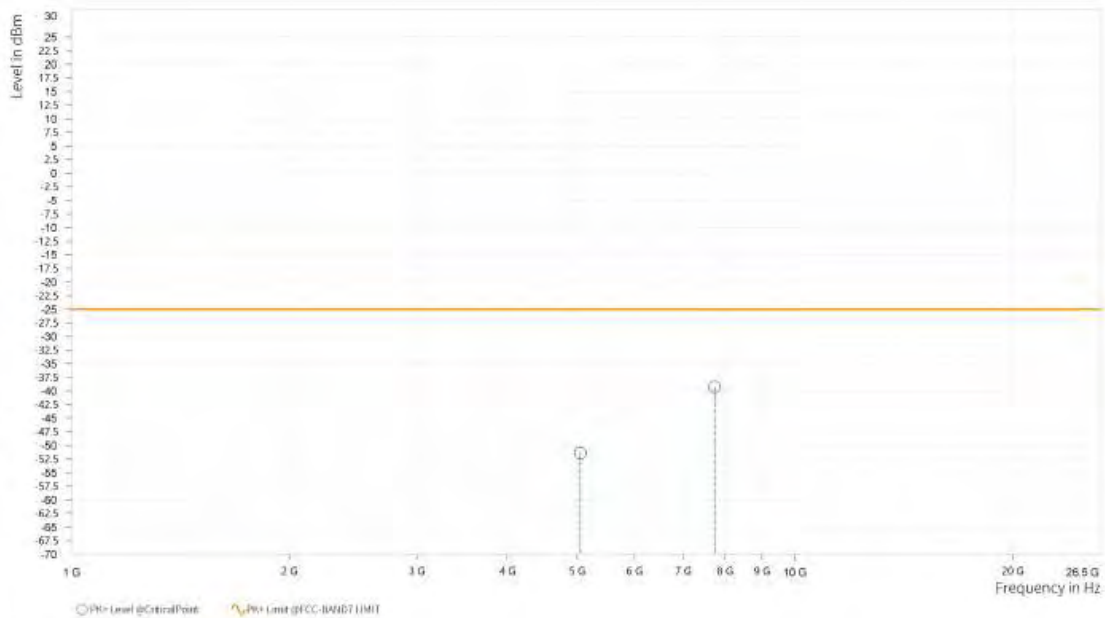




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 507000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,051.000	-51.40	-25.00	26.40	25.51	V	189.7	1
5	7,738.000	-39.28	-25.00	14.28	33.04	V	275.8	1





Test Report No.: W7L-P23100014RF12

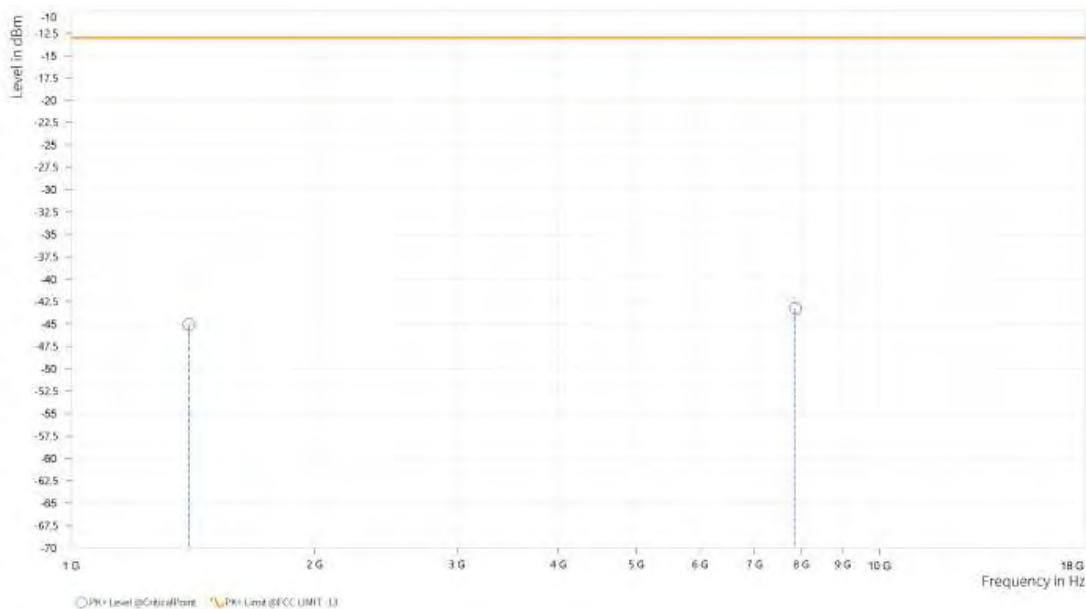
N12

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 140300:

MODE	TX channel 140300	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,398.500	-45.07	-13.00	32.07	12.77	H	297	2
5	7,867.500	-43.25	-13.00	30.25	32.99	H	359.1	1

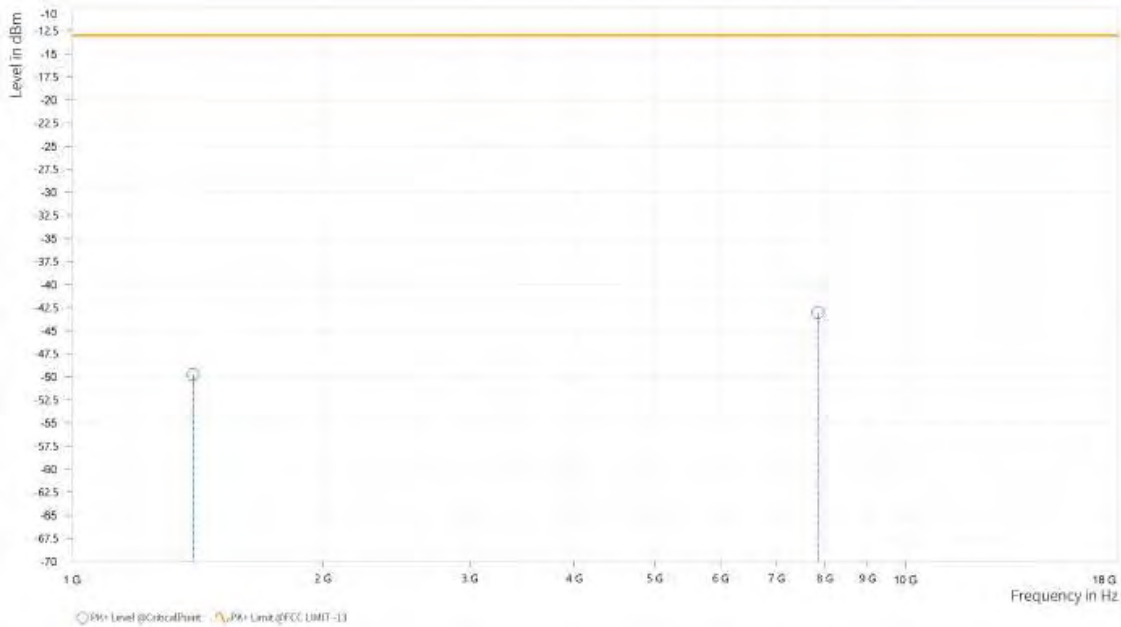




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 140300	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,398.500	-49.76	-13.00	36.76	12.89	V	61.8	1
5	7,850.000	-43.00	-13.00	30.00	33.06	V	1	2



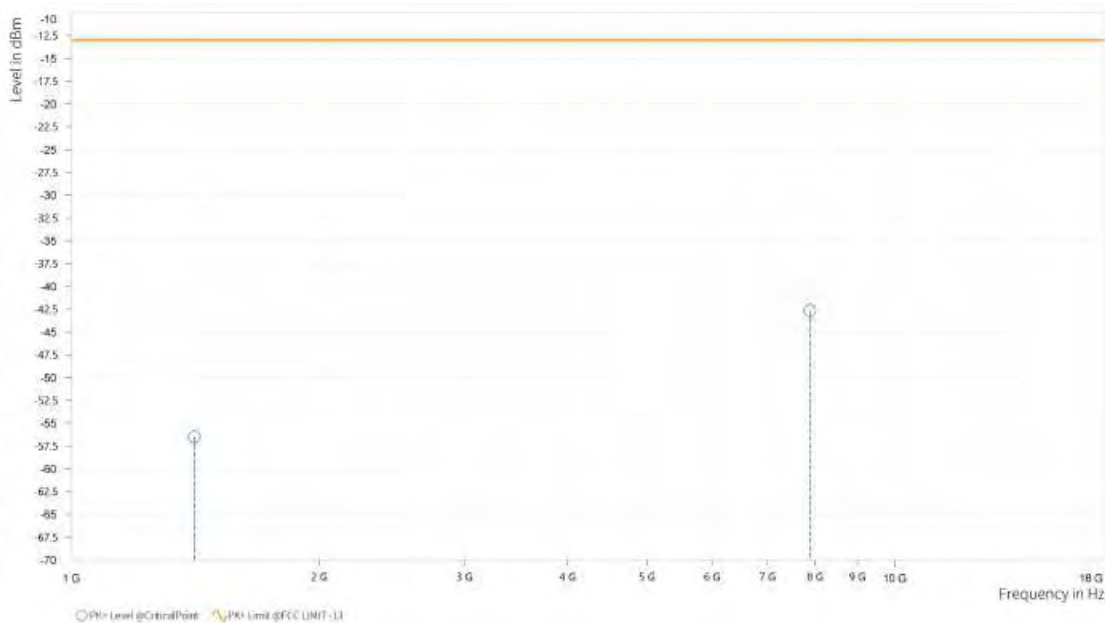


Test Report No.: W7L-P23100014RF12

CH 141500:

MODE	TX channel 141500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,410.500	-56.47	-13.00	43.47	13.00	H	1	1
5	7,888.000	-42.63	-13.00	29.63	33.01	H	359	1

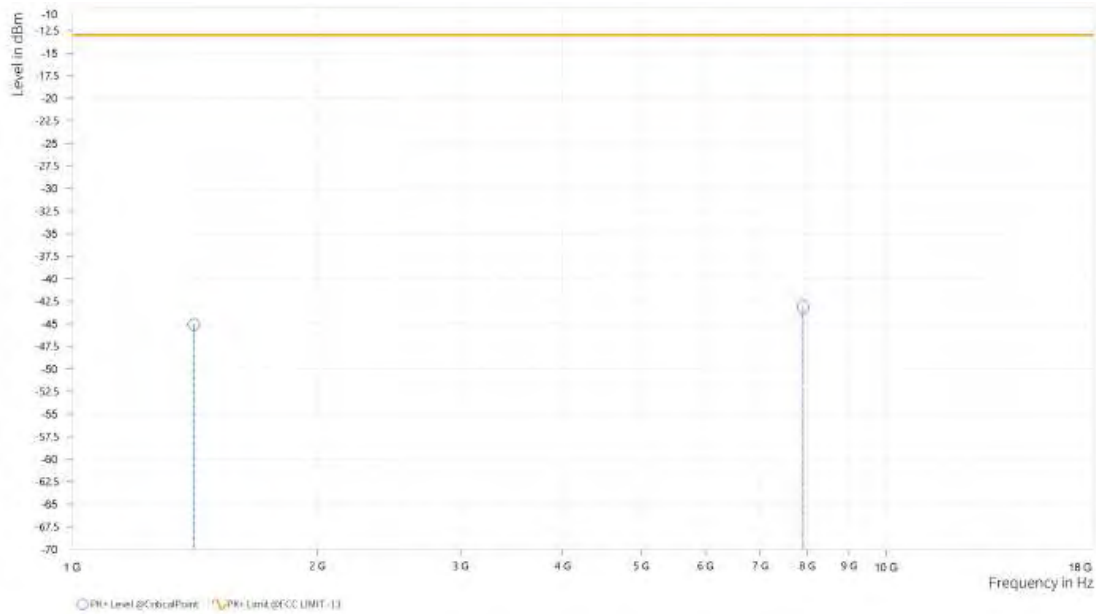




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 141500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,410.500	-45.10	-13.00	32.10	13.11	V	298.2	2
5	7,907.000	-43.14	-13.00	30.14	33.08	V	359.1	1



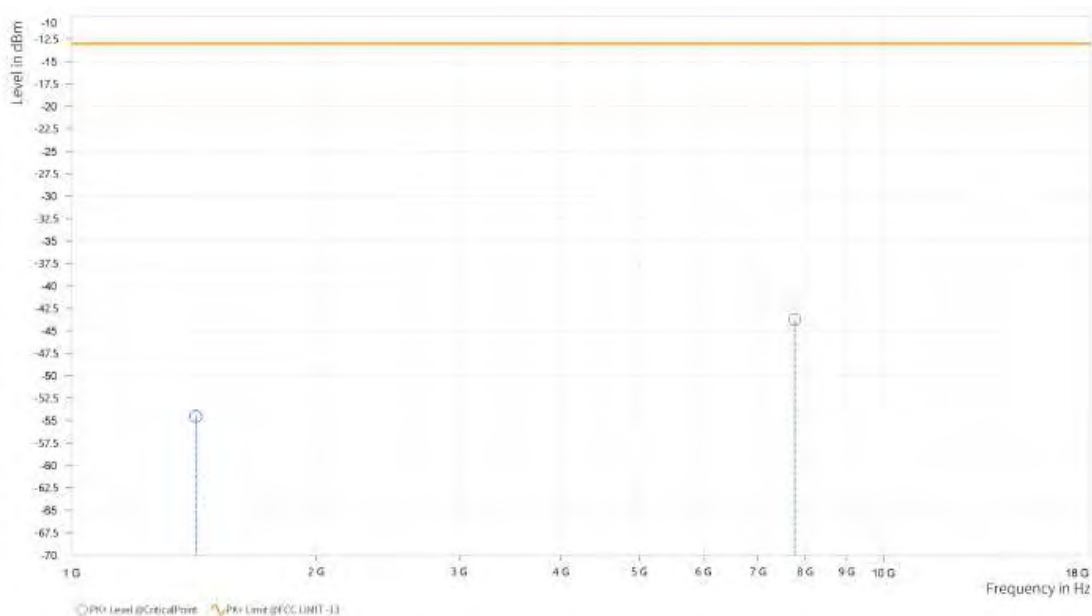


Test Report No.: W7L-P23100014RF12

CH 142700:

MODE	TX channel 142700	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,422.500	-54.54	-13.00	41.54	12.54	H	1	1
5	7,770.500	-43.73	-13.00	30.73	32.84	H	1	1



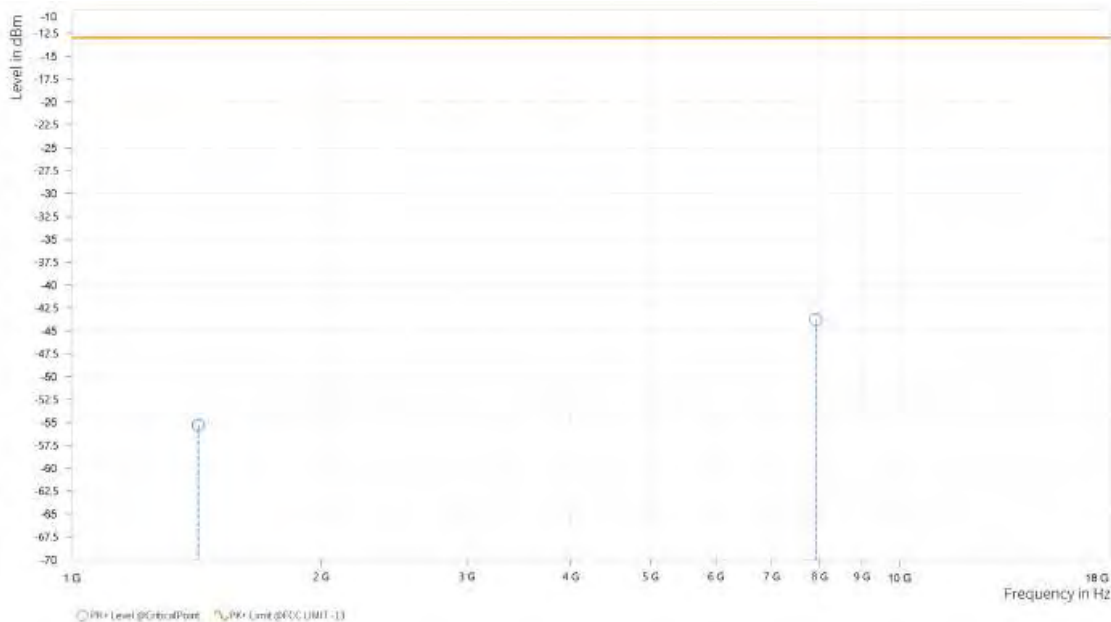




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 142700	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,421.500	-55.31	-13.00	42.31	12.90	V	62.9	1
5	7,922.000	-43.79	-13.00	30.79	33.13	V	268.5	1



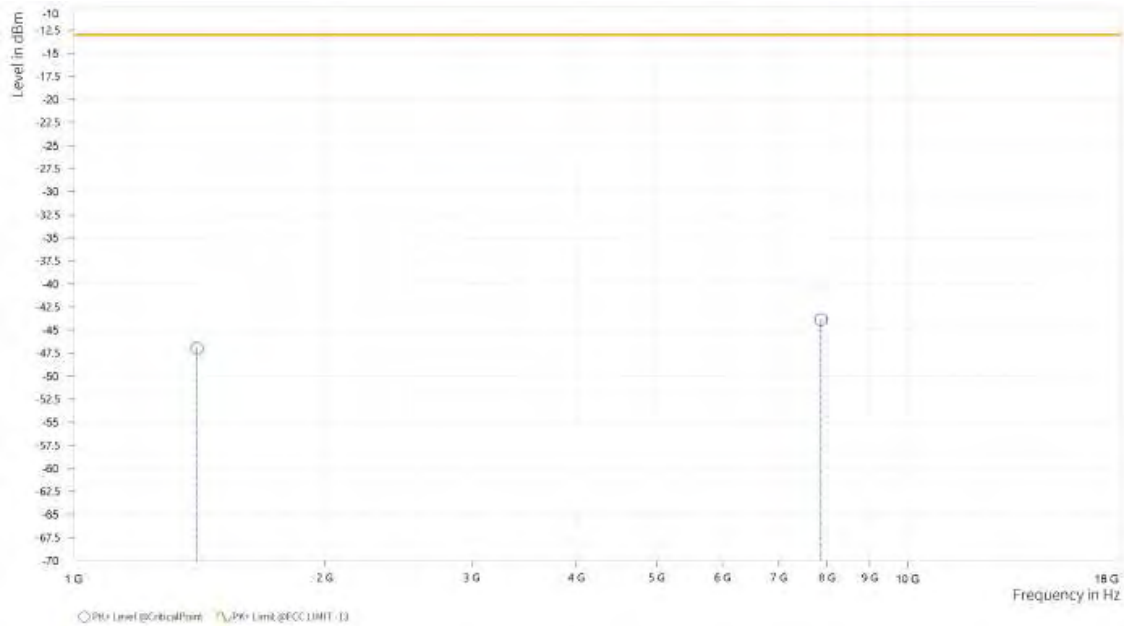


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 10MHz / QPSK**

<b>MODE</b>	TX channel 141500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,405.500	-47.00	-13.00	34.00	12.75	H	297	2
5	7,872.500	-43.90	-13.00	30.90	33.00	H	0.9	2

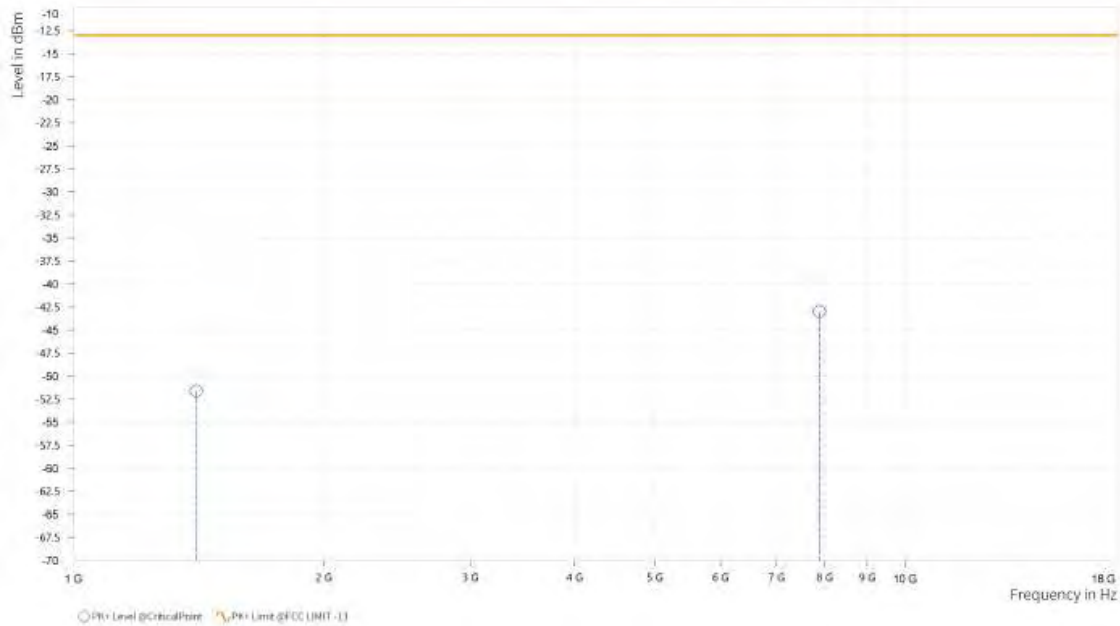




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 141500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,405.500	-51.60	-13.00	38.60	12.91	V	297	2
5	7,886.000	-42.98	-13.00	29.98	33.04	V	359	2



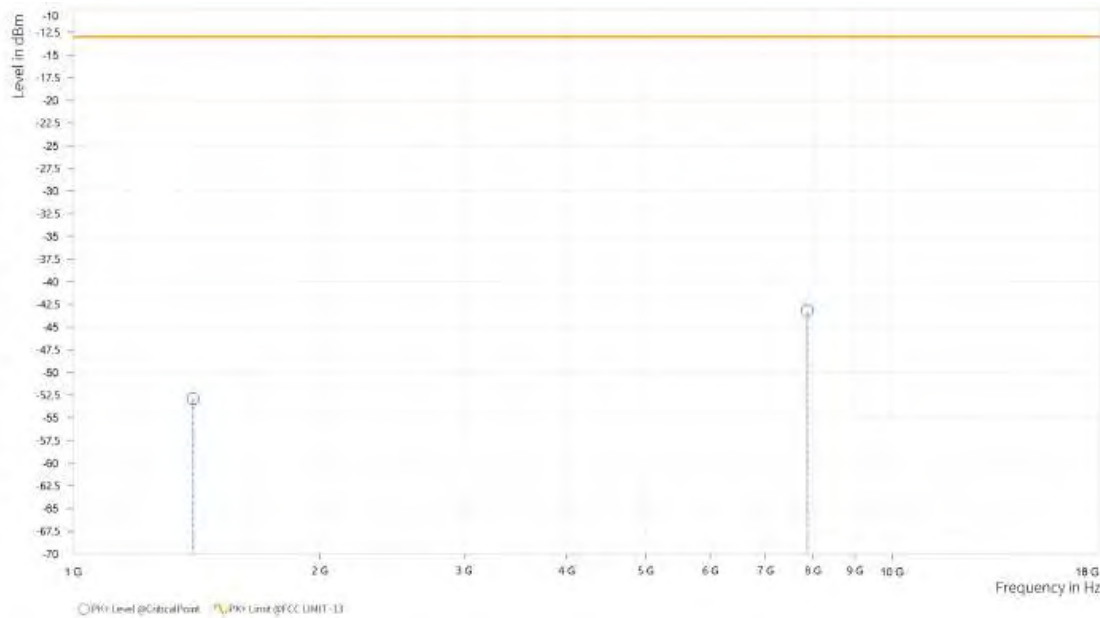


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 15MHz / QPSK**

<b>MODE</b>	TX channel 141500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,400.500	-52.88	-13.00	39.88	12.63	H	359	2
5	7,876.500	-43.18	-13.00	30.18	33.00	H	359	2

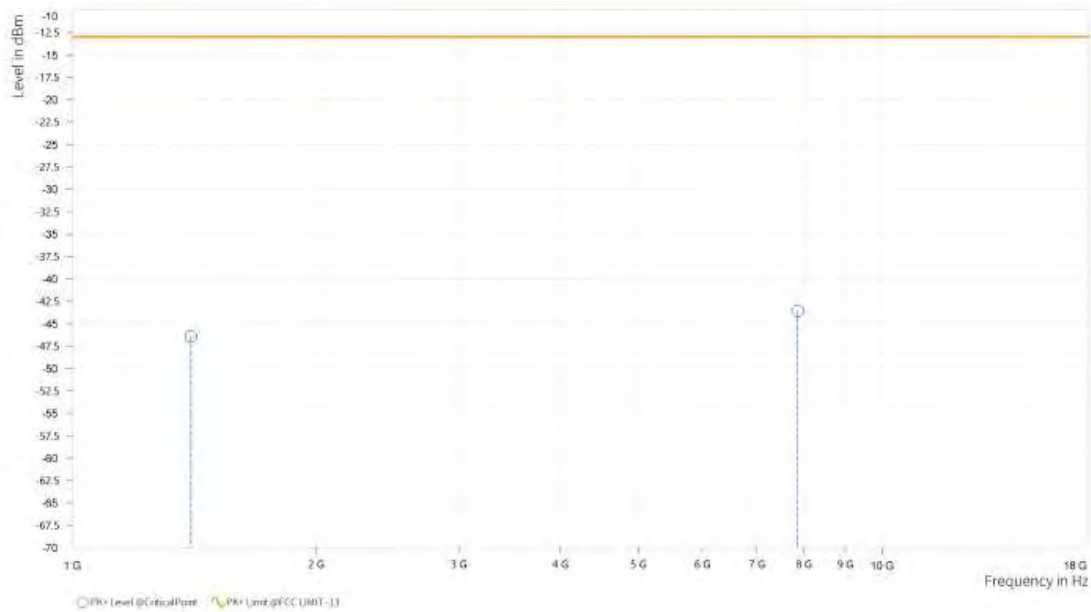




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 141500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,401.000	-46.43	-13.00	33.43	12.78	V	297	2
5	7,862.000	-43.57	-13.00	30.57	33.05	V	92.6	2





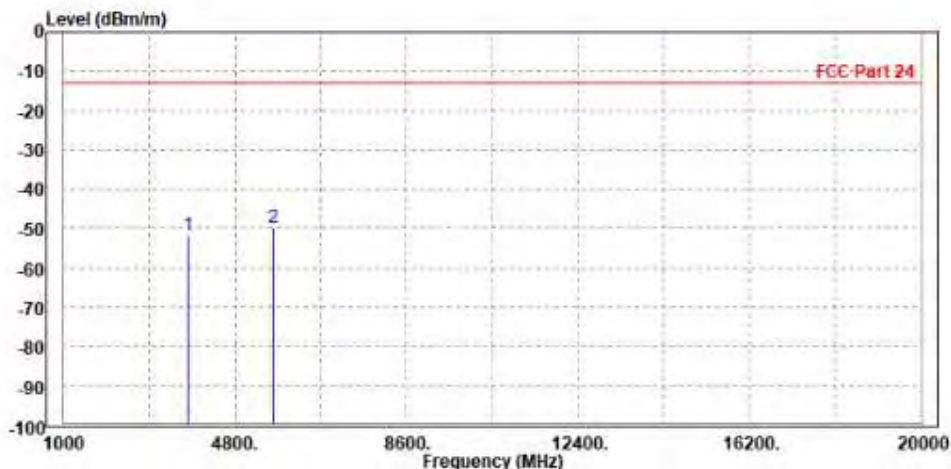
Test Report No.: W7L-P23100014RF12

N25

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 376500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3765.000	-51.87	-59.87	-13.00	-38.87	8.00	Peak	Horizontal
2 PP	5655.000	-49.87	-60.64	-13.00	-36.87	10.77	Peak	Horizontal

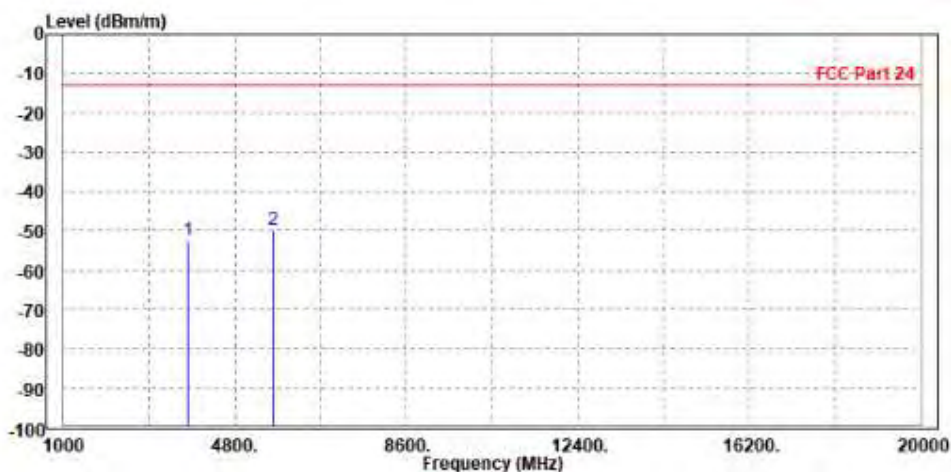




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3774.000	-52.44	-60.16	-13.00	-39.44	7.72	Peak	Vertical
2 PP	5647.500	-49.65	-60.80	-13.00	-36.65	11.15	Peak	Vertical





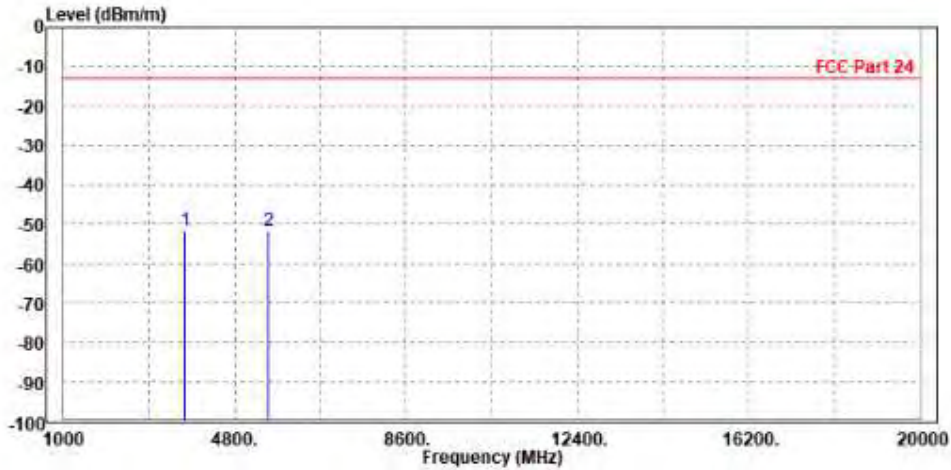
Test Report No.: W7L-P23100014RF12

CHANNEL BANDWIDTH: 10MHz / QPSK

CH 371000:

MODE	TX channel 371000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3698.000	-51.71	-59.54	-13.00	-38.71	7.83	Peak	Horizontal
2	5557.500	-51.75	-62.33	-13.00	-38.75	10.58	Peak	Horizontal



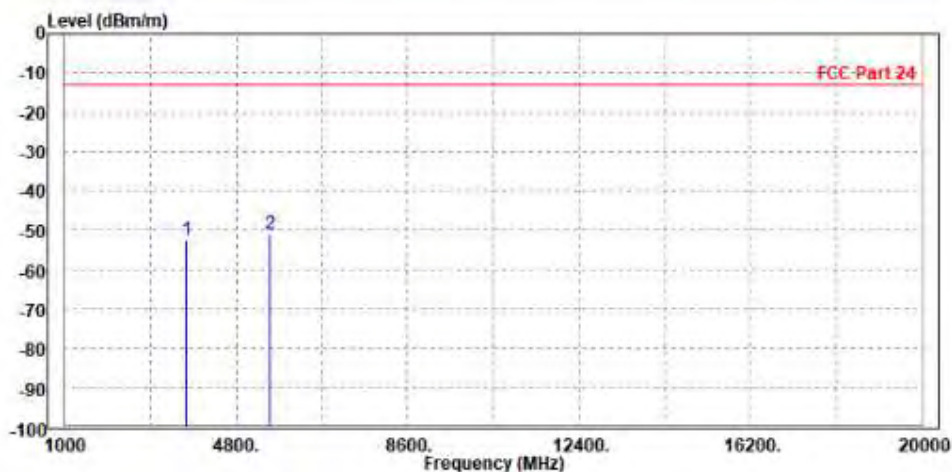




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 371000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3705.000	-52.31	-59.93	-13.00	-39.31	7.62	Peak	Vertical
2	PP 5560.000	-50.87	-61.77	-13.00	-37.87	10.90	Peak	Vertical



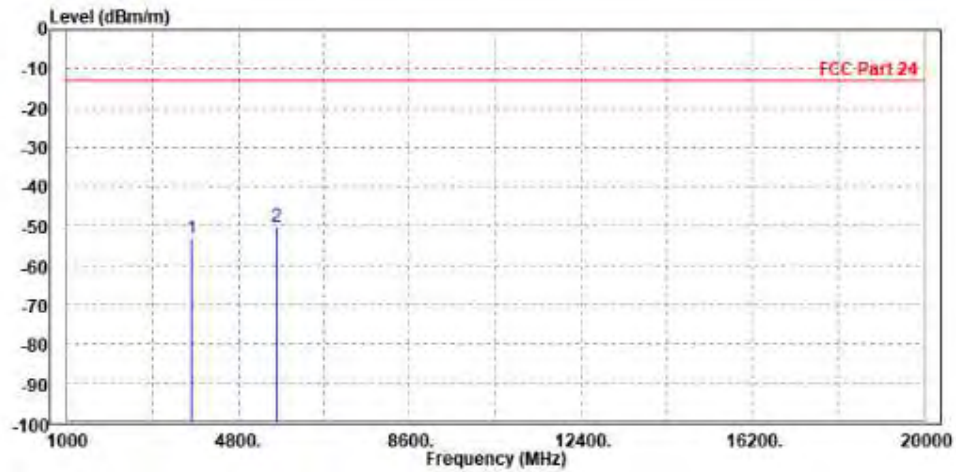


Test Report No.: W7L-P23100014RF12

CH 376500:

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3774.000	-53.34	-61.36	-13.00	-40.34	8.02	Peak	Horizontal
2 PP	5647.500	-50.17	-60.93	-13.00	-37.17	10.76	Peak	Horizontal

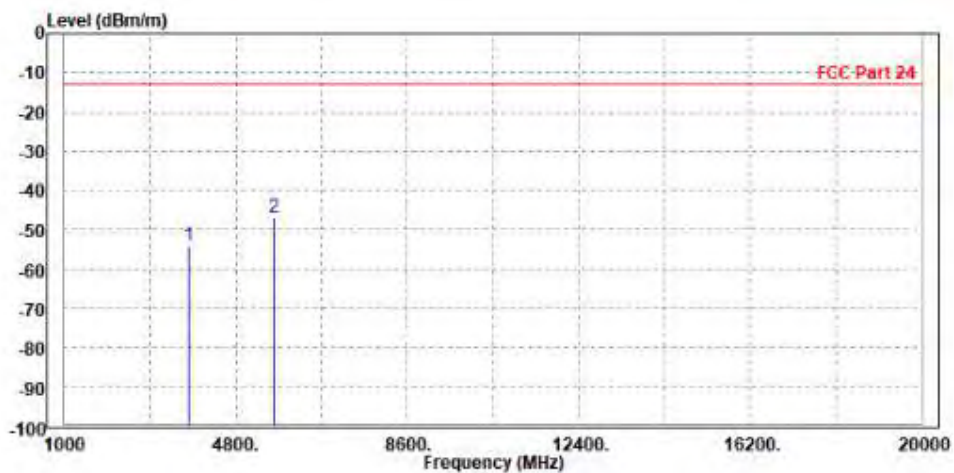




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3765.000	-53.96	-61.66	-13.00	-40.96	7.70	Peak	Vertical
2 PP	5655.000	-46.86	-58.03	-13.00	-33.86	11.17	Peak	Vertical



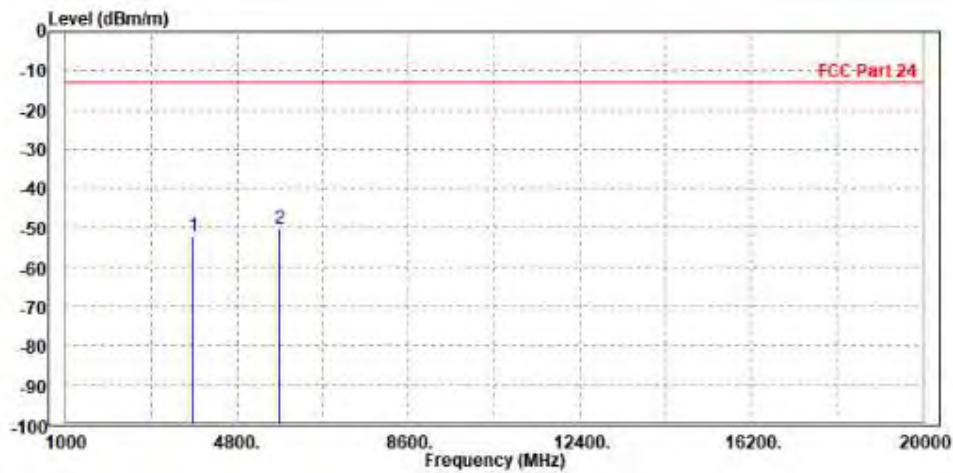


Test Report No.: W7L-P23100014RF12

CH 382000:

<b>MODE</b>	TX channel 382000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3820.000	-52.26	-60.40	-13.00	-39.26	8.14	Peak	Horizontal
2	PP 5731.000	-50.10	-61.01	-13.00	-37.10	10.91	Peak	Horizontal

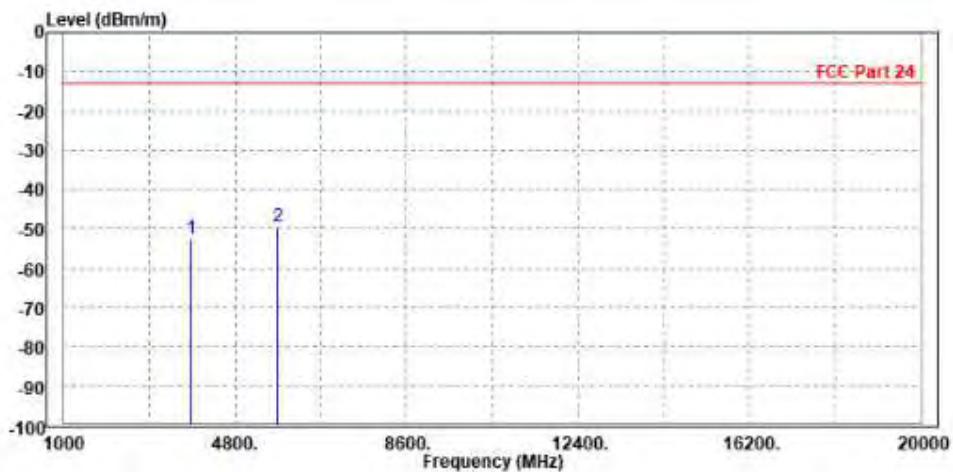




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 382000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-52.54	-60.31	-13.00	-39.54	7.77	Peak	Vertical
2 PP	5730.000	-49.25	-60.63	-13.00	-36.25	11.38	Peak	Vertical



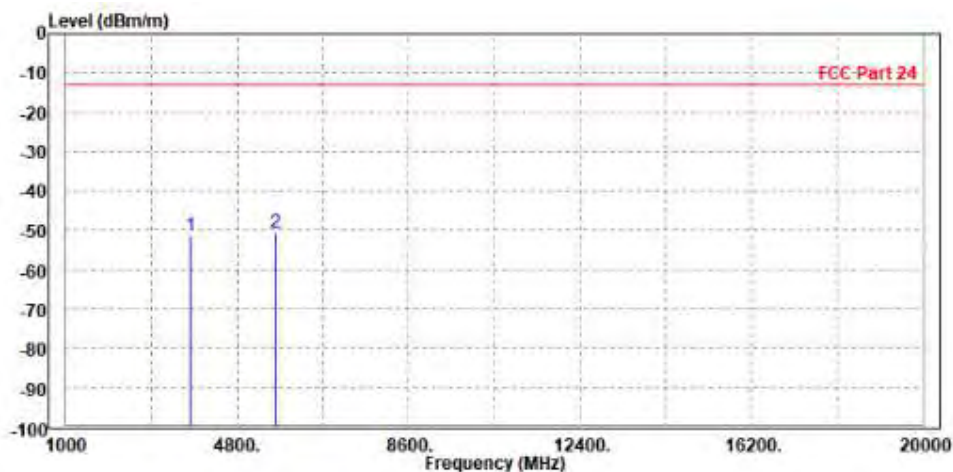


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 15MHz / QPSK**

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3765.000	-51.30	-59.30	-13.00	-38.30	8.00	Peak	Horizontal
2 PP	5655.000	-50.52	-61.29	-13.00	-37.52	10.77	Peak	Horizontal

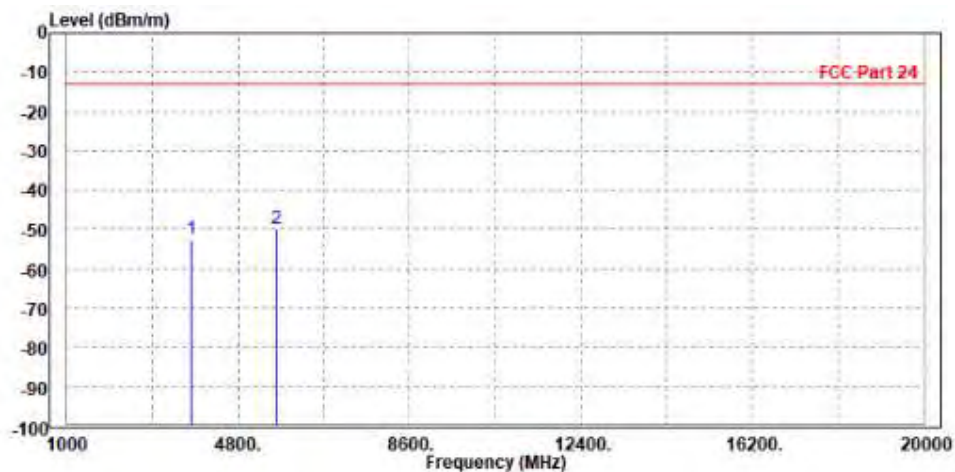




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3774.000	-52.40	-60.12	-13.00	-39.40	7.72	Peak	Vertical
2 PP	5647.500	-49.83	-60.98	-13.00	-36.83	11.15	Peak	Vertical



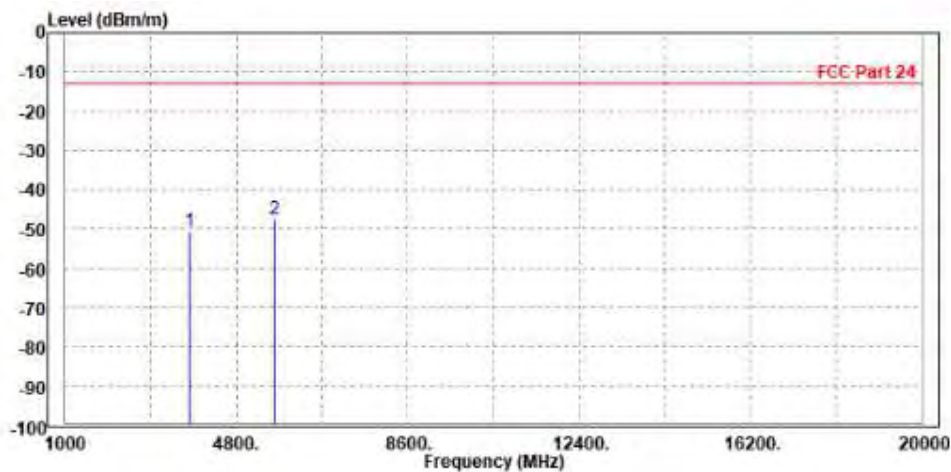


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 20MHz / QPSK**

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3765.000	-50.72	-58.72	-13.00	-37.72	8.00	Peak	Horizontal
2 PP	5655.000	-47.61	-58.38	-13.00	-34.61	10.77	Peak	Horizontal



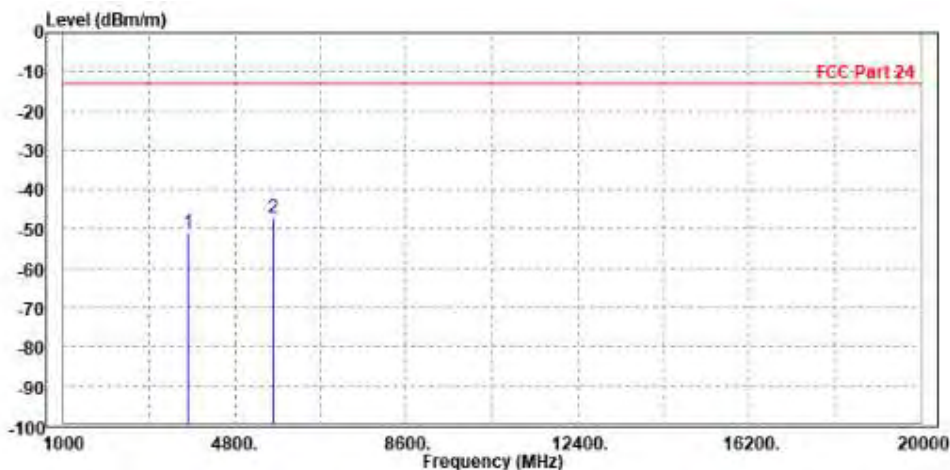




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3774.000	-51.13	-58.85	-13.00	-38.13	7.72	Peak	Vertical
2 PP	5647.500	-47.19	-58.34	-13.00	-34.19	11.15	Peak	Vertical



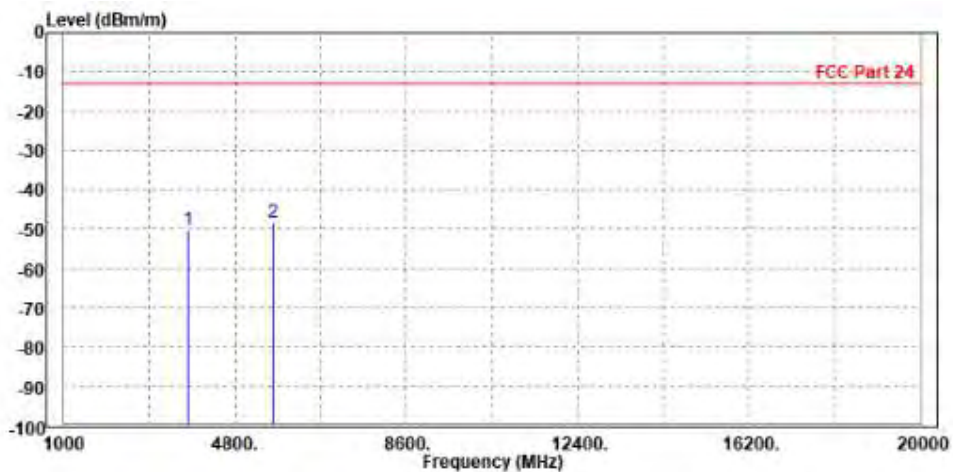


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 25MHz / QPSK**

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3765.000	-50.35	-58.35	-13.00	-37.35	8.00	Peak	Horizontal
2 PP	5647.500	-48.22	-58.98	-13.00	-35.22	10.76	Peak	Horizontal

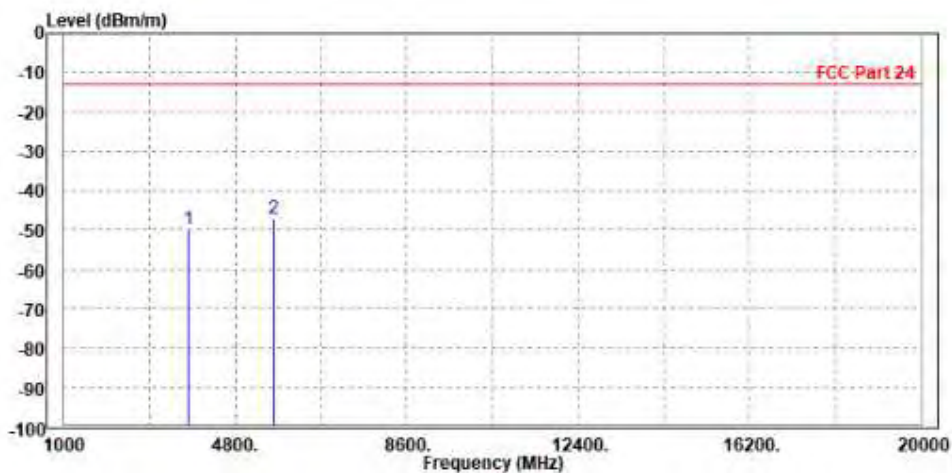




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3765.000	-49.79	-57.49	-13.00	-36.79	7.70	Peak	Vertical
2 PP	5647.500	-47.18	-58.33	-13.00	-34.18	11.15	Peak	Vertical



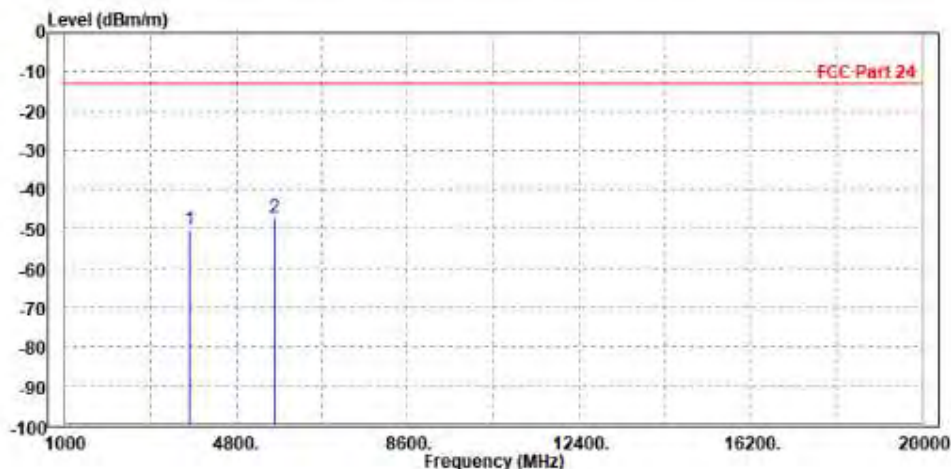


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 30MHz / QPSK**

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3765.000	-50.11	-58.11	-13.00	-37.11	8.00	Peak	Horizontal
2 PP	5655.000	-47.09	-57.86	-13.00	-34.09	10.77	Peak	Horizontal

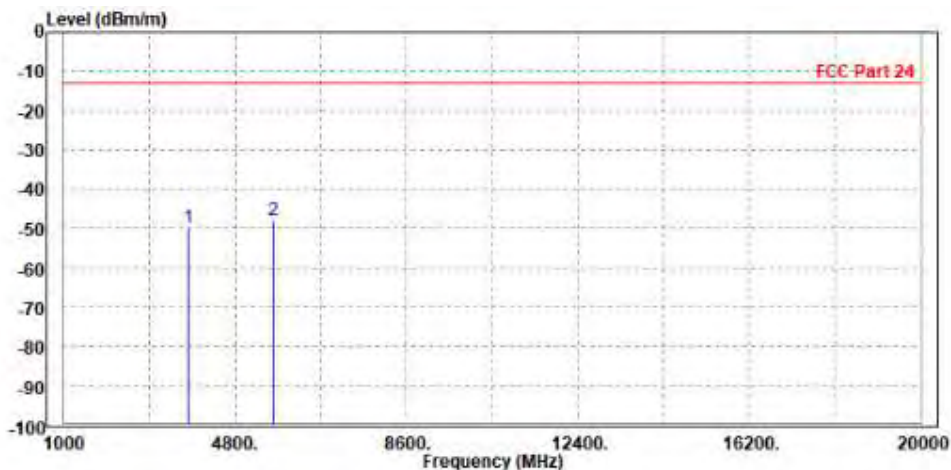




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3774.000	-49.75	-57.47	-13.00	-36.75	7.72	Peak	Vertical
2	PP 5647.500	-47.94	-59.09	-13.00	-34.94	11.15	Peak	Vertical



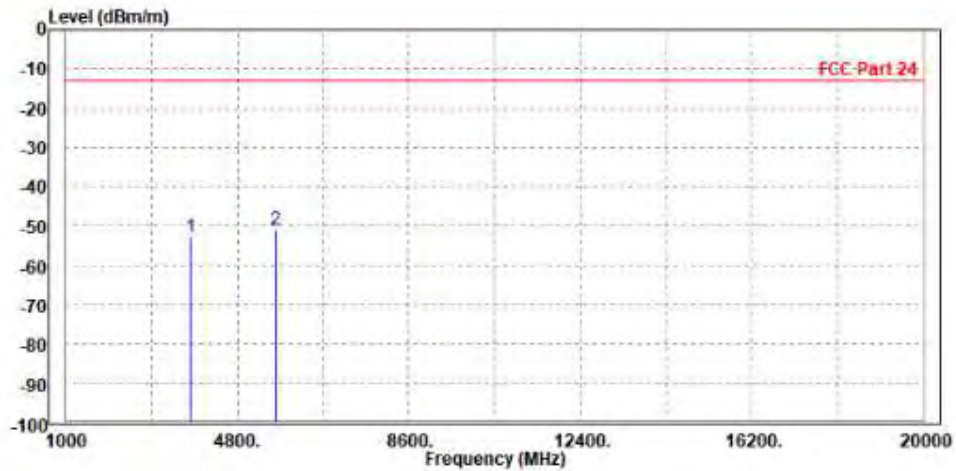


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 40MHz / QPSK**

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3765.000	-52.72	-60.72	-13.00	-39.72	8.00	Peak	Horizontal
2 PP	5655.000	-50.77	-61.54	-13.00	-37.77	10.77	Peak	Horizontal

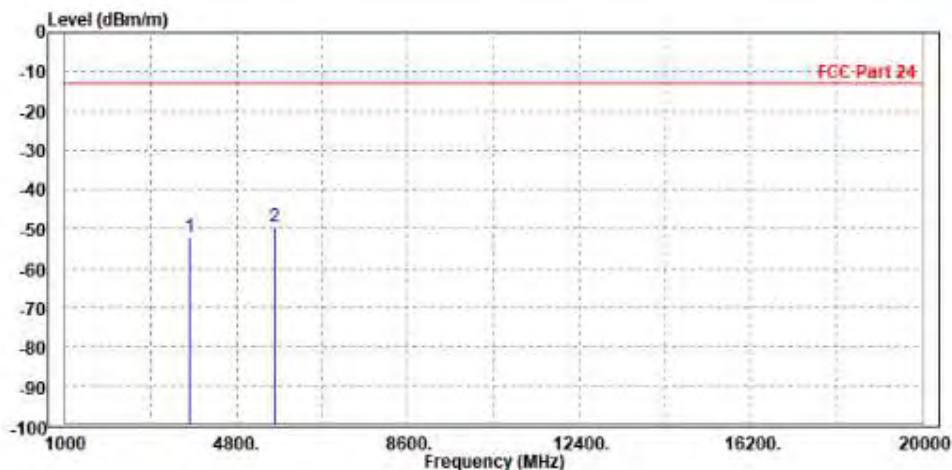




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 376500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3774.000	-52.15	-59.87	-13.00	-39.15	7.72	Peak	Vertical
2	PP 5647.500	-49.62	-60.77	-13.00	-36.62	11.15	Peak	Vertical





Test Report No.: W7L-P23100014RF12

N30

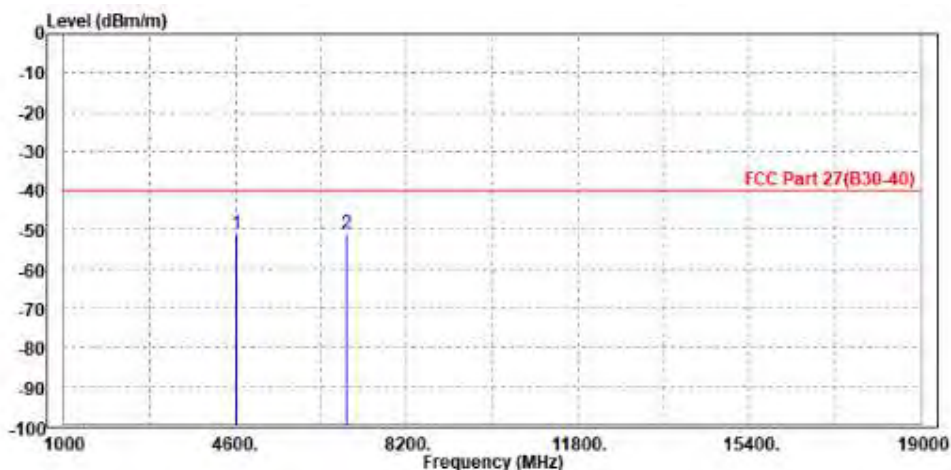
Note: For frequency above 19GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 461500:

MODE	TX channel 461500	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	4618.000	-50.98	-60.71	-40.00	-10.98	9.73	Peak	Horizontal
2 PP	6922.500	-50.89	-63.02	-40.00	-10.89	12.13	Peak	Horizontal



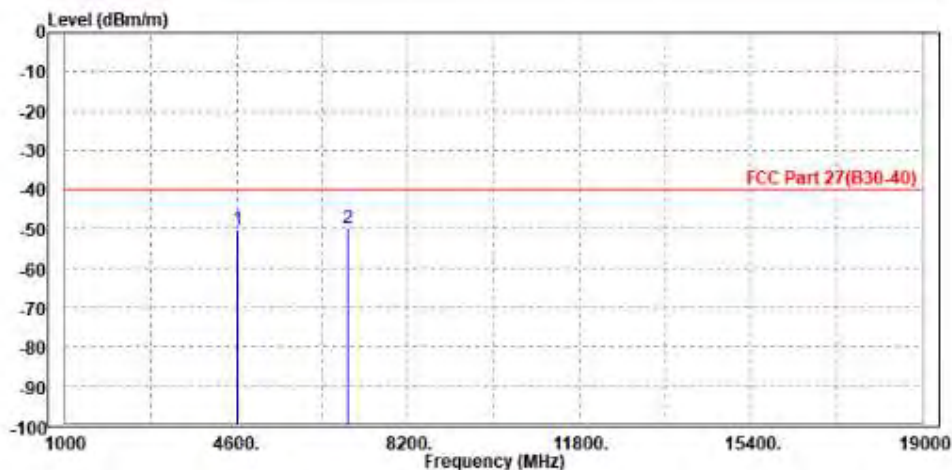




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 461500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	4615.000	-50.21	-59.87	-40.00	-10.21	9.66	Peak	Vertical
2 PP	6922.000	-49.91	-62.61	-40.00	-9.91	12.70	Peak	Vertical



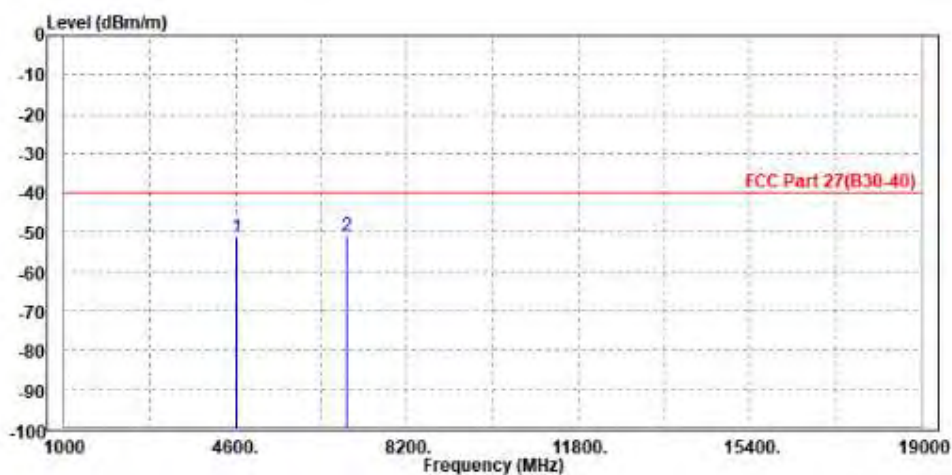


Test Report No.: W7L-P23100014RF12

CH 462000:

MODE	TX channel 462000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	4618.000	-51.36	-61.09	-40.00	-11.36	9.73	Peak	Horizontal
2	PP 6930.000	-50.89	-63.03	-40.00	-10.89	12.14	Peak	Horizontal

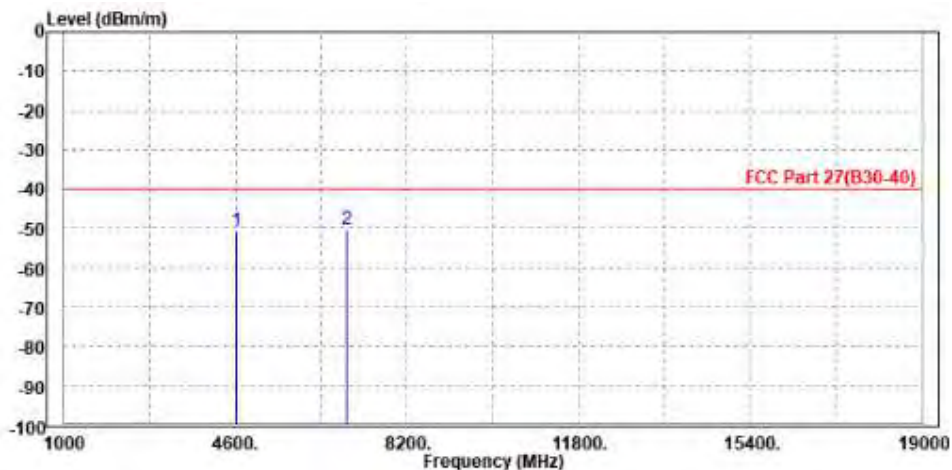




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 462000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	4620.000	-50.69	-60.36	-40.00	-10.69	9.67	Peak	Vertical
2 PP	6922.000	-50.10	-62.80	-40.00	-10.10	12.70	Peak	Vertical



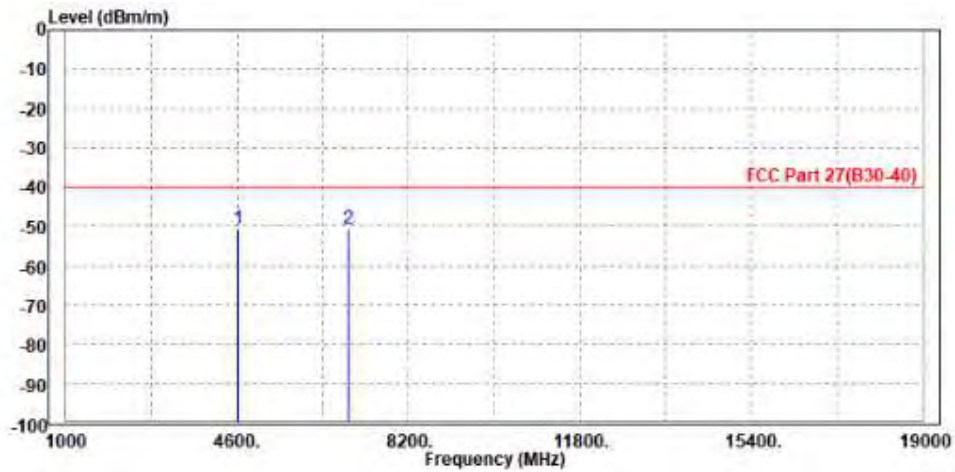


Test Report No.: W7L-P23100014RF12

CH 462500:

<b>MODE</b>	TX channel 462500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 4625.000	-50.56	-60.29	-40.00	-10.56	9.73	Peak	Horizontal
2	6922.000	-50.59	-62.72	-40.00	-10.59	12.13	Peak	Horizontal

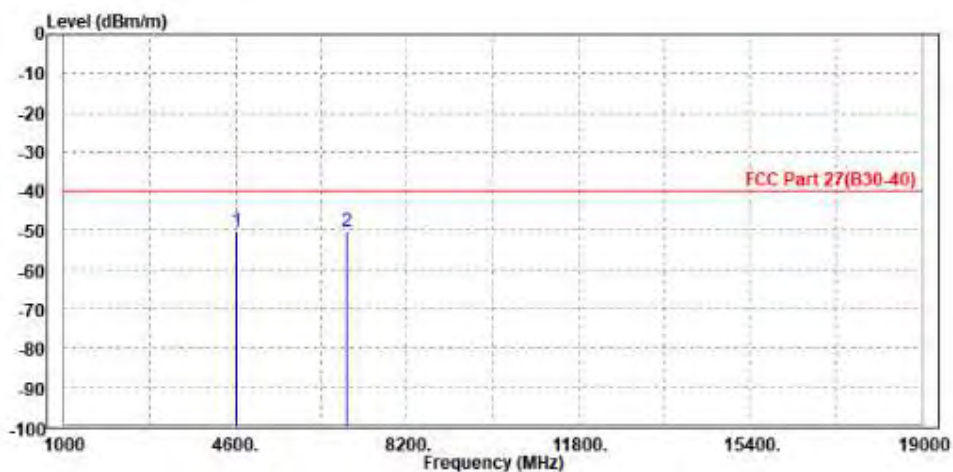




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 462500	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	4618.000	-50.20	-59.87	-40.00	-10.20	9.67	Peak	Vertical
2 PP	6937.500	-50.09	-62.79	-40.00	-10.09	12.70	Peak	Vertical



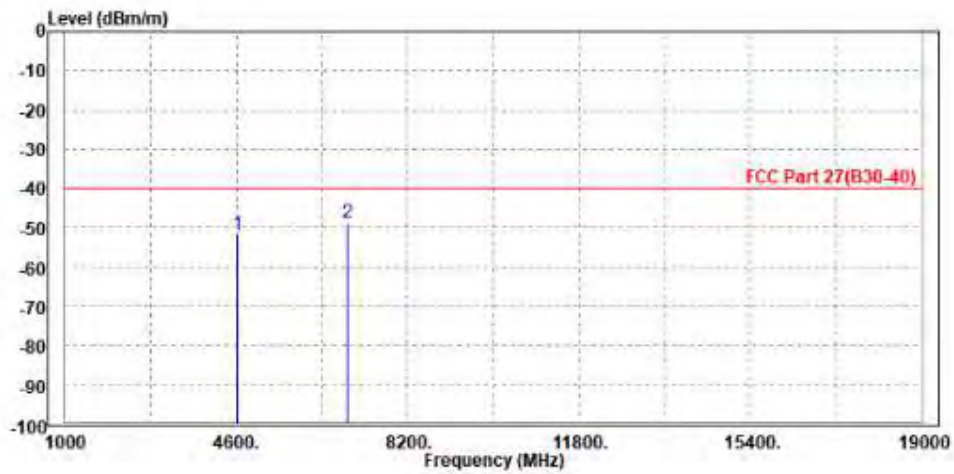


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 10MHz / QPSK**

<b>MODE</b>	TX channel 462000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	4620.000	-51.59	-61.32	-40.00	-11.59	9.73	Peak	Horizontal
2 PP	6922.000	-48.82	-60.95	-40.00	-8.82	12.13	Peak	Horizontal

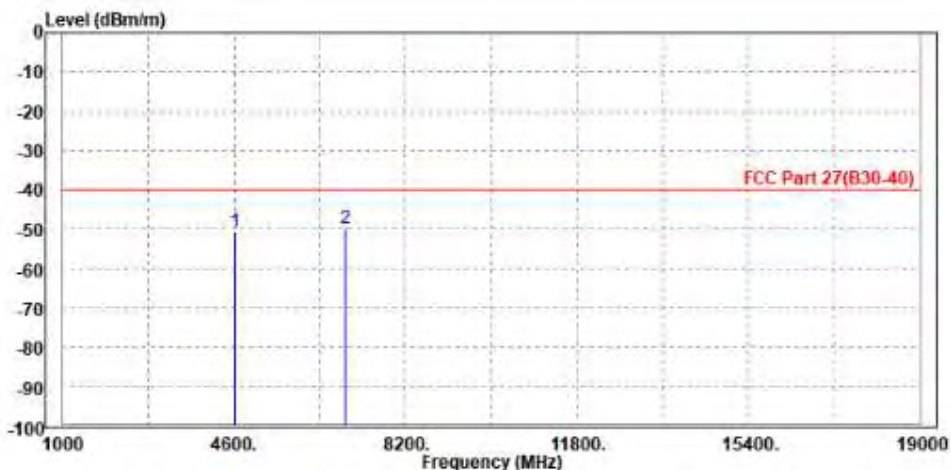




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 462000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	4618.000	-50.49	-60.16	-40.00	-10.49	9.67	Peak	Vertical
2 PP	6930.000	-49.63	-62.33	-40.00	-9.63	12.70	Peak	Vertical





Test Report No.: W7L-P23100014RF12

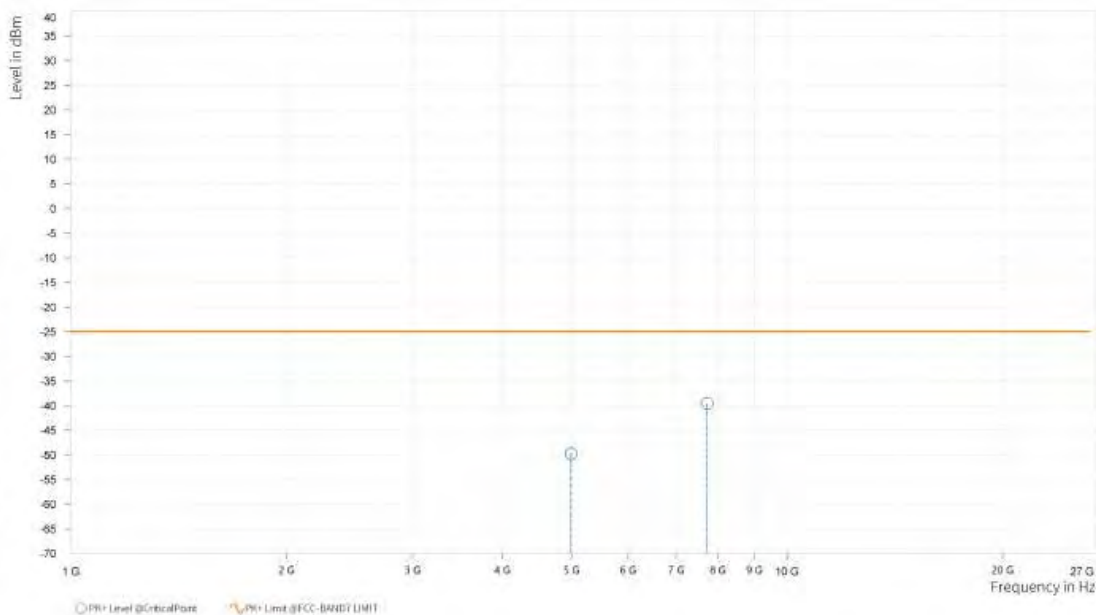
N41: SRS-1 (ANT 1)

CHANNEL BANDWIDTH: 20MHz / QPSK

CH 501204:

MODE	TX channel 501204	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,994.000	-49.72	-25.00	24.72	25.47	H	166.8	2
5	7,734.500	-39.56	-25.00	14.56	32.81	H	0.9	2



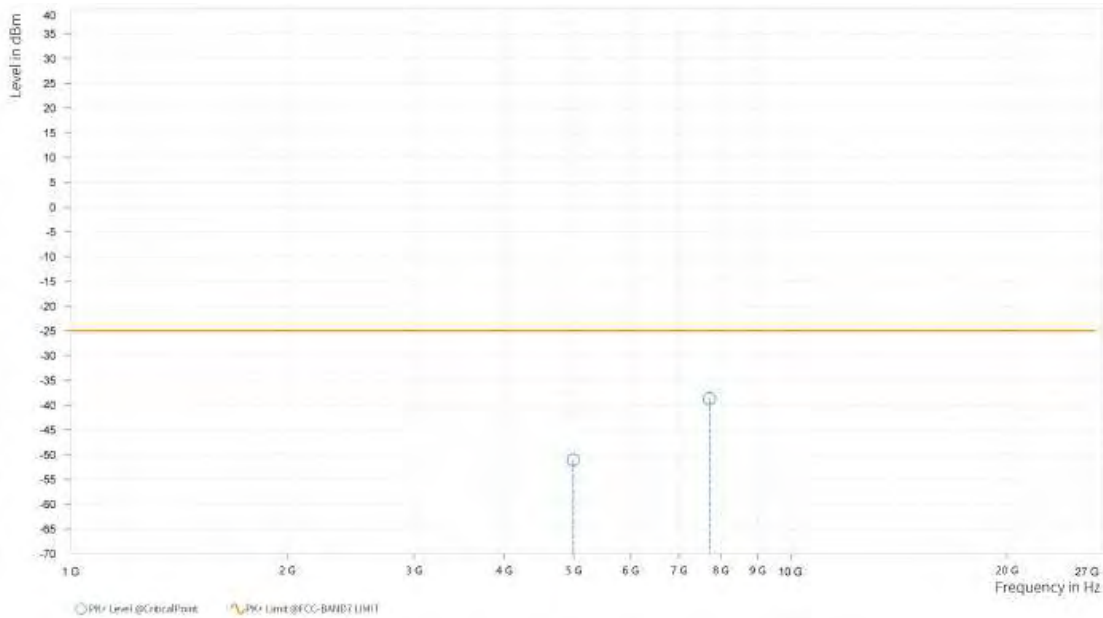




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 501204	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,994.500	-51.08	-25.00	26.08	25.30	V	202.8	1
5	7,715.500	-38.70	-25.00	13.70	32.95	V	1	2



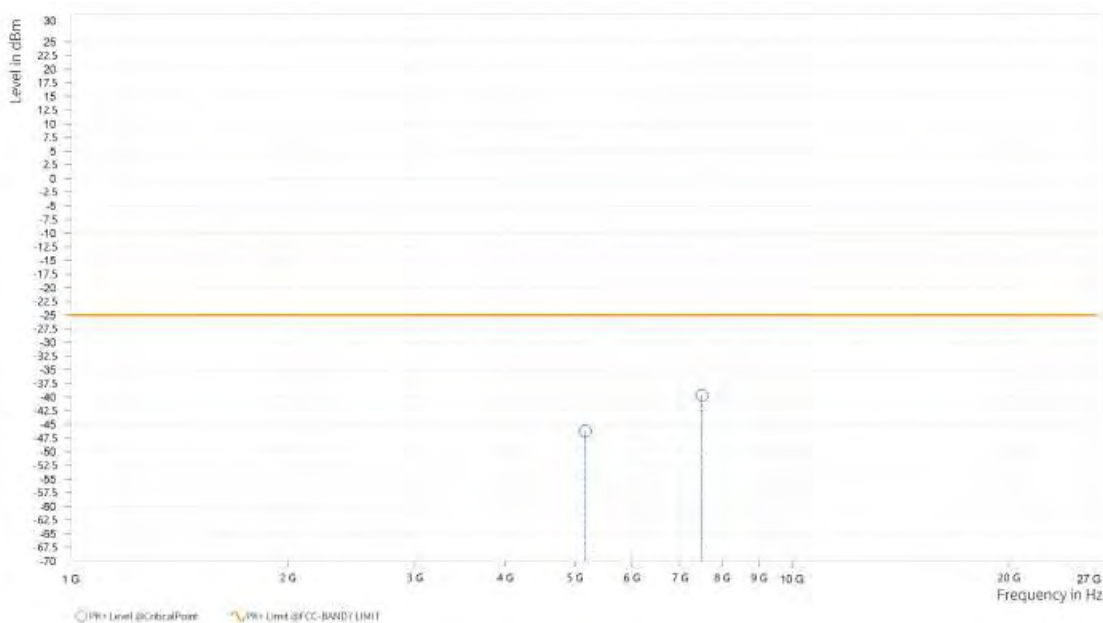


Test Report No.: W7L-P23100014RF12

CH 518598:

MODE	TX channel 518598	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,167.500	-46.25	-25.00	21.25	26.19	H	359	2
5	7,498.500	-39.71	-25.00	14.71	31.84	H	274.5	1

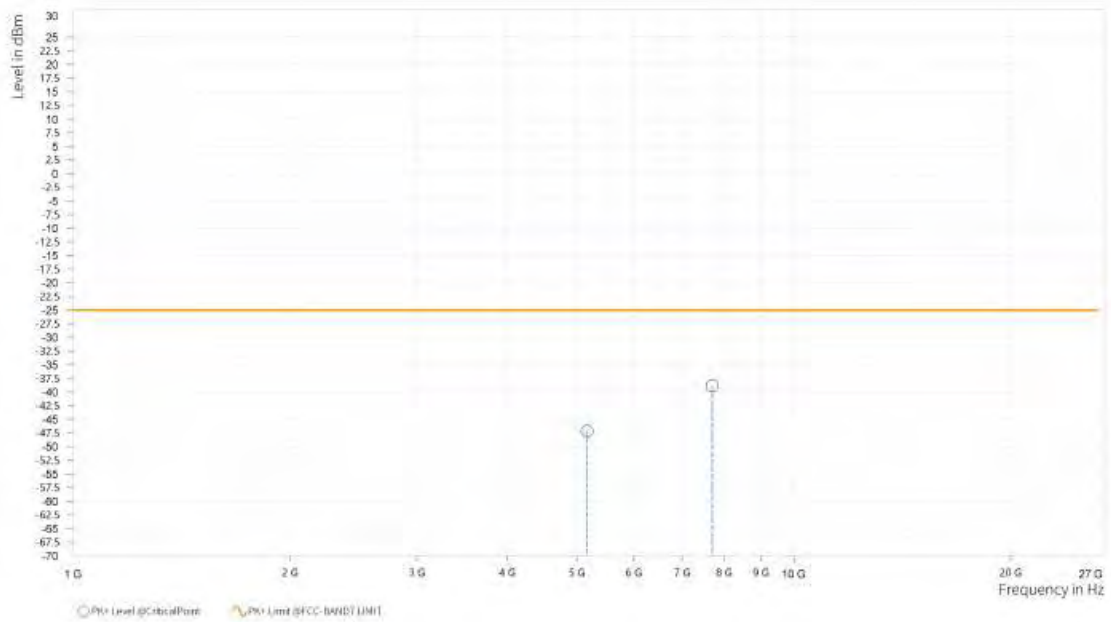




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,168.000	-47.17	-25.00	22.17	26.05	V	1	2
5	7,704.500	-38.86	-25.00	13.86	32.91	V	1	1



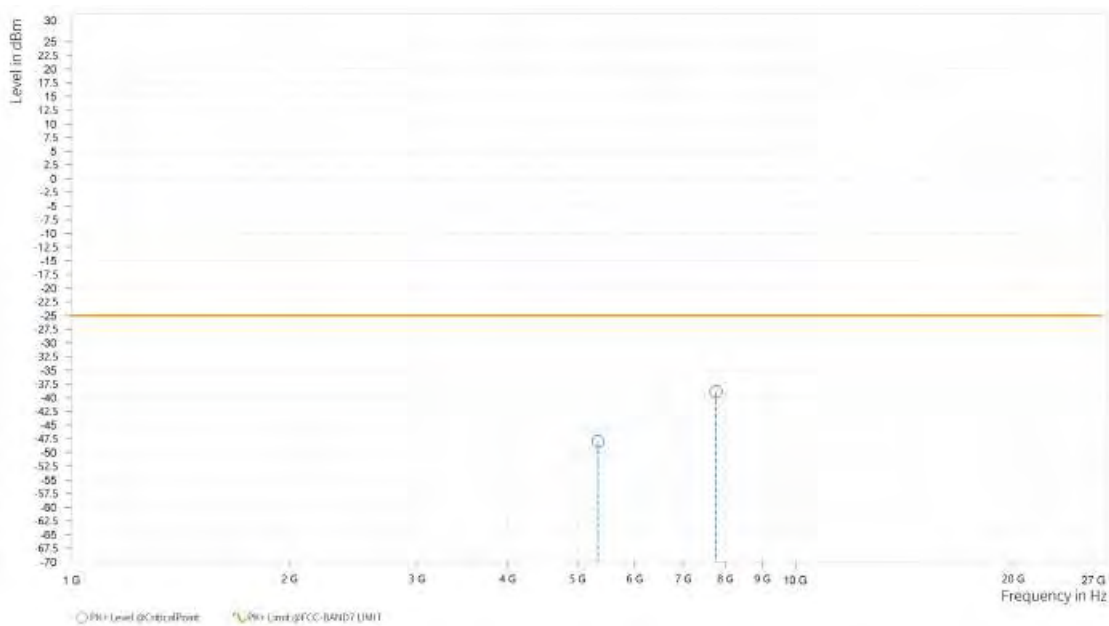


Test Report No.: W7L-P23100014RF12

CH 535998:

<b>MODE</b>	TX channel 535998	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,342.000	-48.00	-25.00	23.00	27.23	H	359	2
5	7,768.500	-38.91	-25.00	13.91	32.84	H	278.2	1

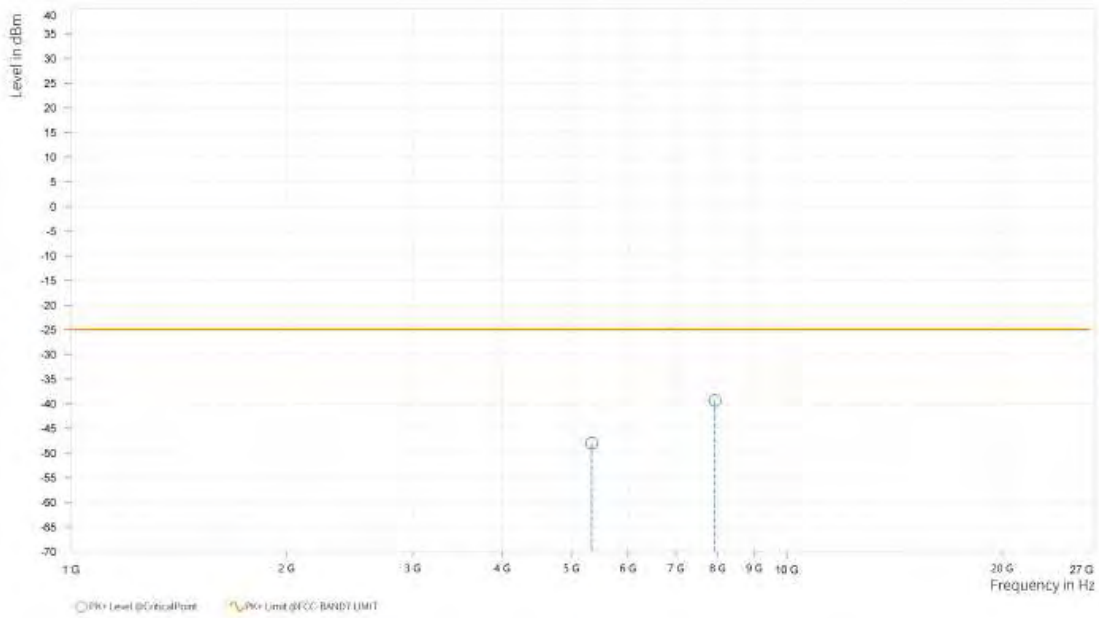




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 535998	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,342.000	-48.03	-25.00	23.03	26.60	V	1	1
5	7,932.500	-39.40	-25.00	14.40	33.16	V	1	1



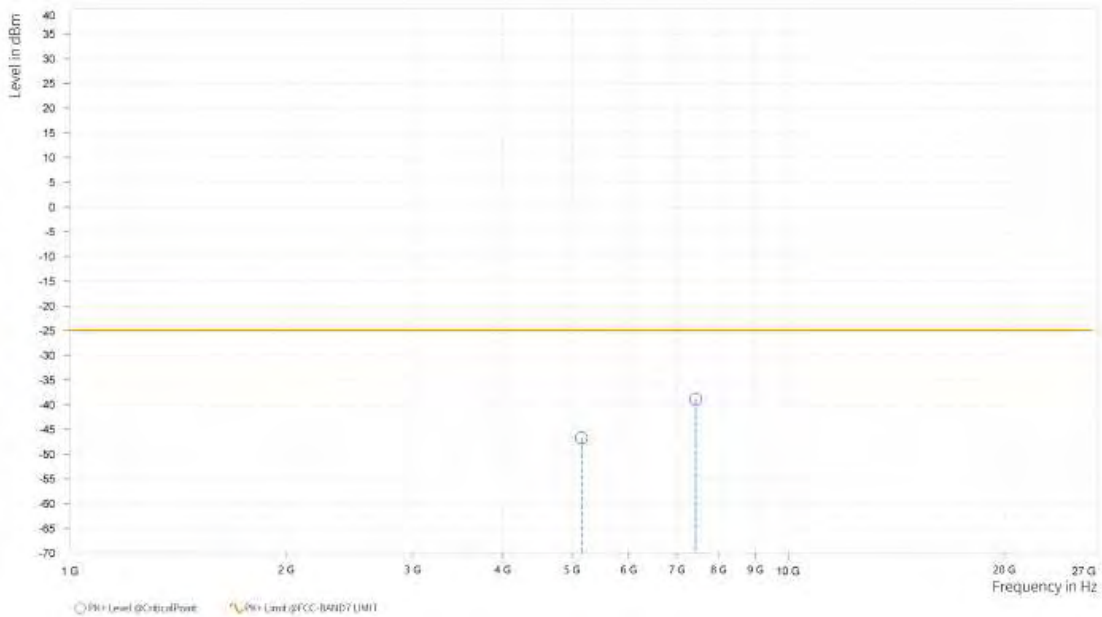


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 30MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,158.000	-46.76	-25.00	21.76	26.22	H	359	2
5	7,436.000	-38.90	-25.00	13.90	31.60	H	359.1	1

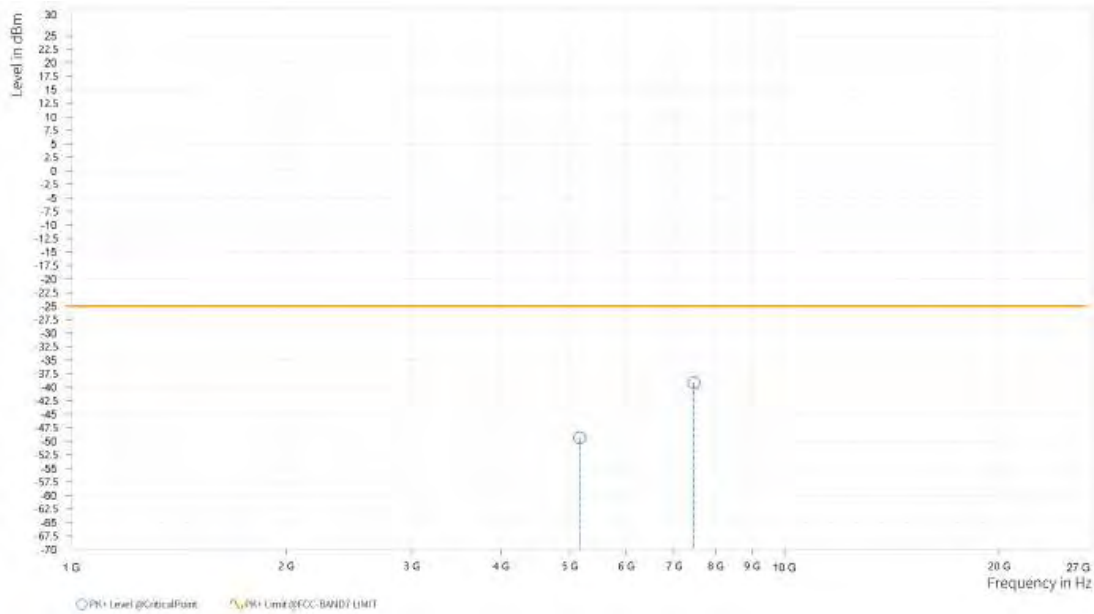




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,158.500	-49.32	-25.00	24.32	26.14	V	1	2
5	7,462.000	-39.17	-25.00	14.17	31.72	V	85.4	2



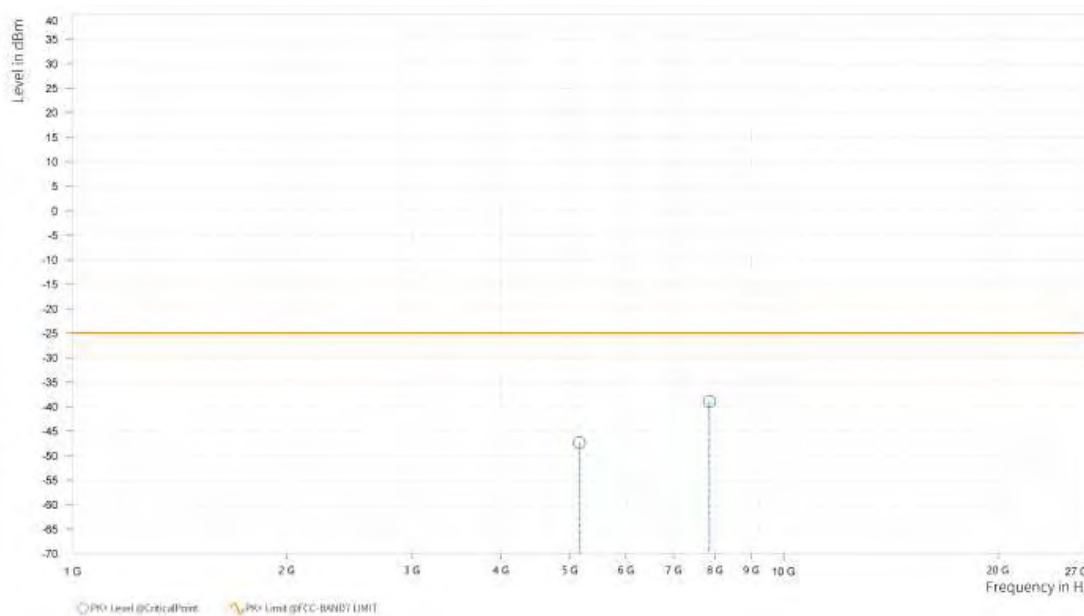


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 40MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,158.500	-47.36	-25.00	22.36	26.22	H	1	2
5	7,863.000	-38.94	-25.00	13.94	32.99	H	359	2



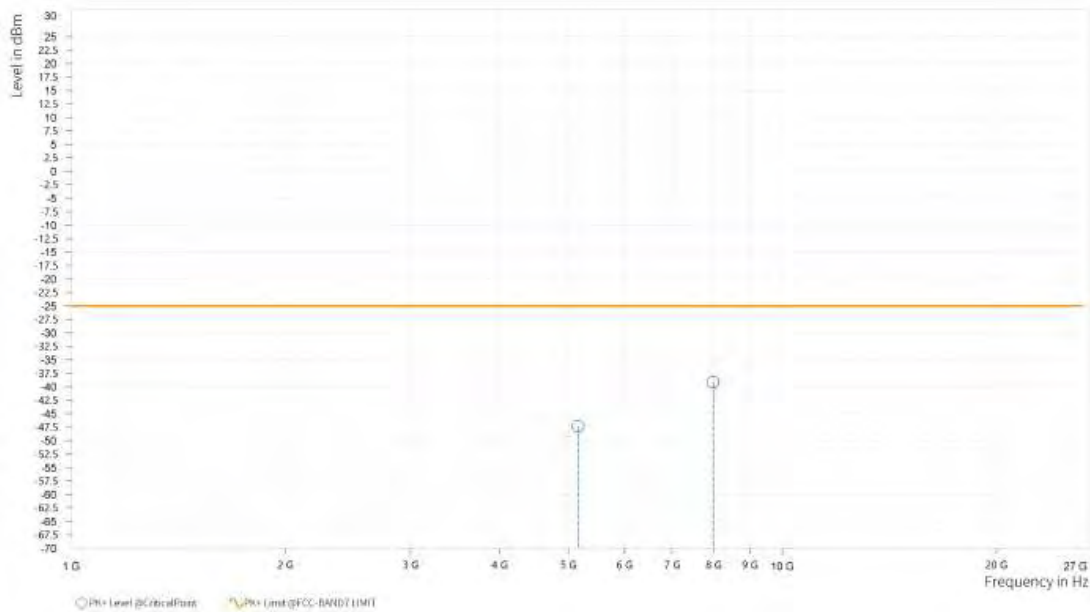




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,158.500	-47.37	-25.00	22.37	26.14	V	1	2
5	7,992.000	-39.10	-25.00	14.10	33.33	V	1	2



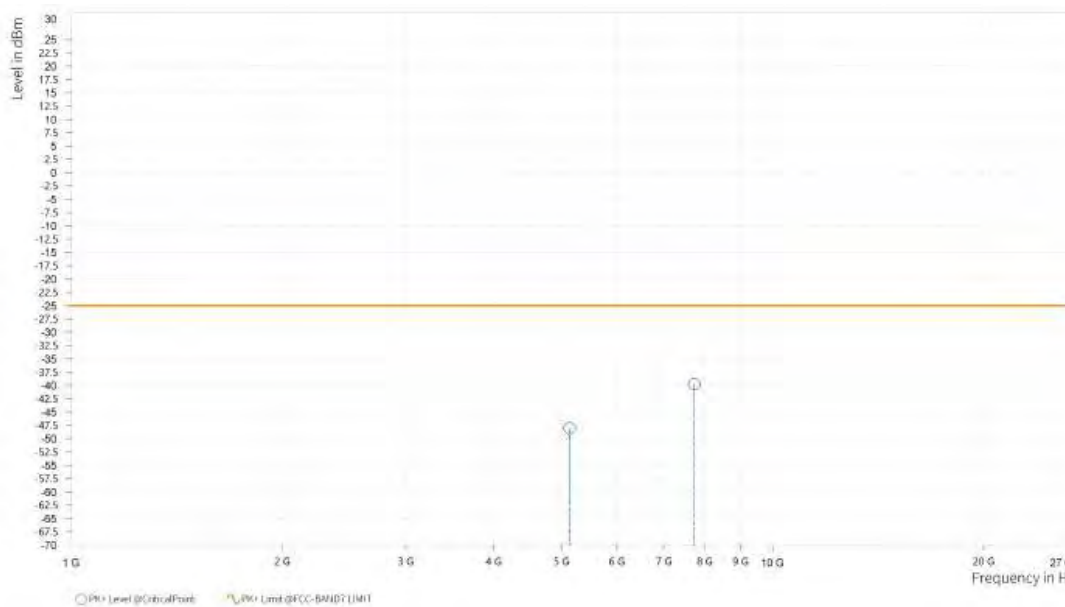


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,138.500	-48.03	-25.00	23.03	26.21	H	359.1	1
5	7,733.000	-39.77	-25.00	14.77	32.81	H	275.8	1

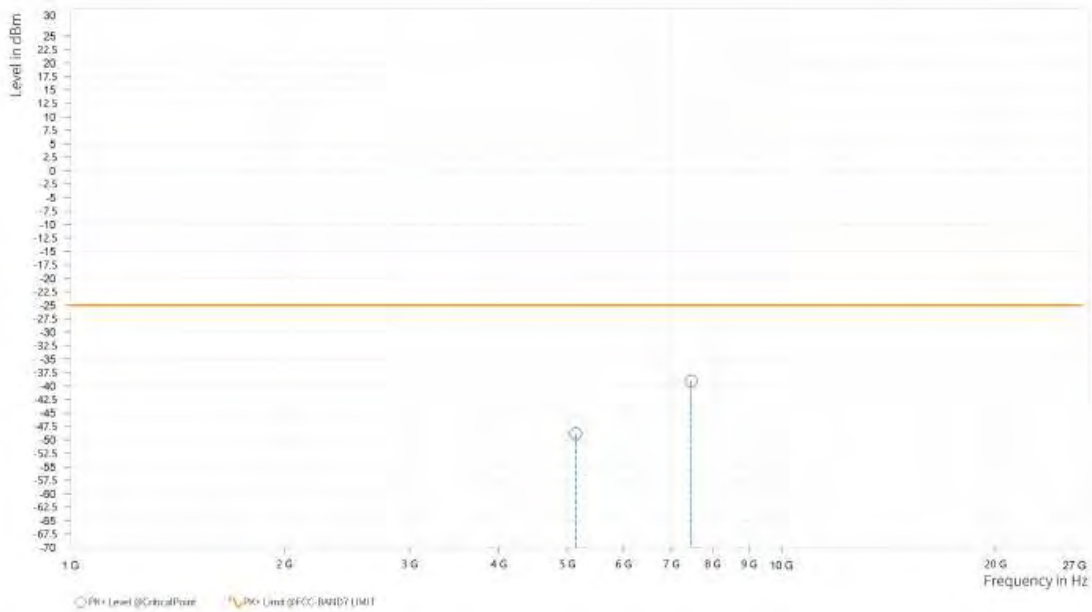




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,138.500	-48.90	-25.00	23.90	26.21	V	359	2
5	7,465.000	-39.06	-25.00	14.06	31.73	V	81.9	2



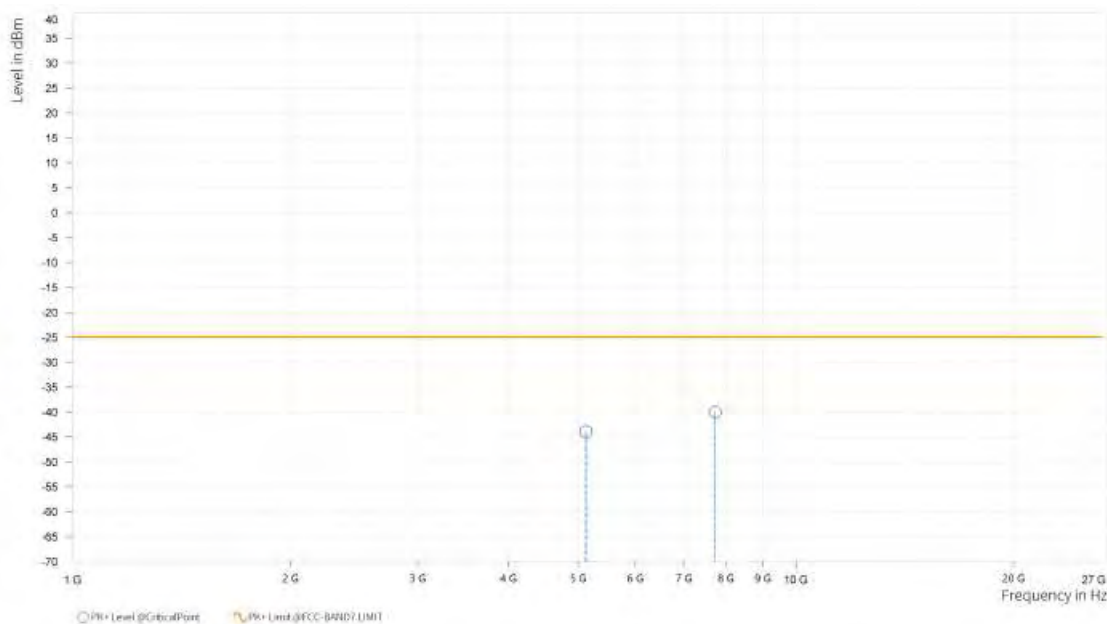


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 60MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,128.000	-43.96	-25.00	18.96	26.19	H	0.9	2
5	7,735.000	-40.04	-25.00	15.04	32.82	H	0.9	2

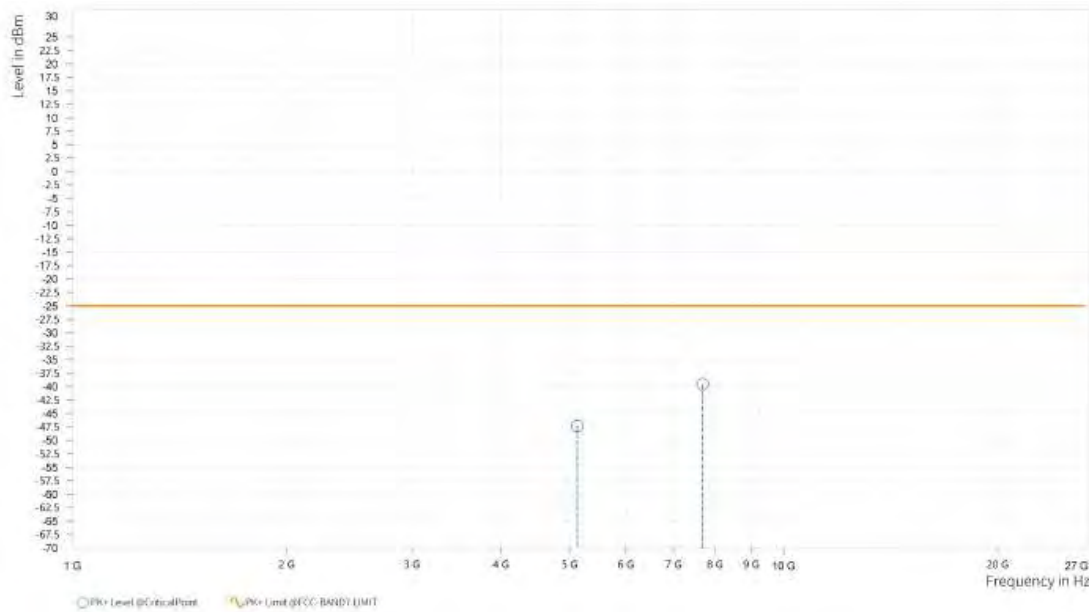




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,127.500	-47.36	-25.00	22.36	26.22	V	0.9	2
5	7,688.500	-39.58	-25.00	14.58	32.84	V	52	2



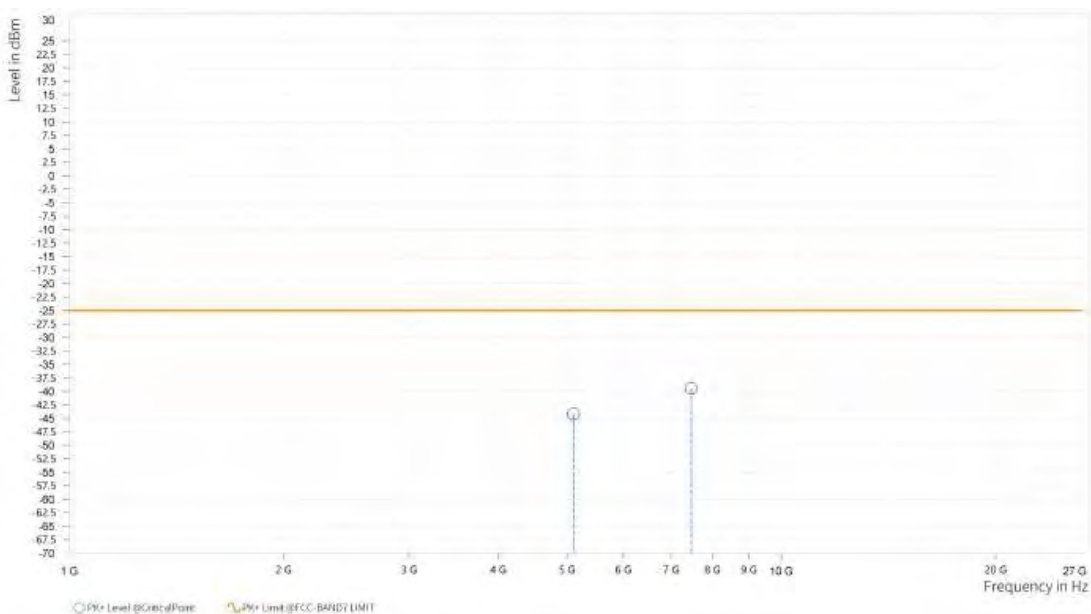


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 80MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,108.000	-44.20	-25.00	19.20	26.13	H	359	2
5	7,472.000	-39.40	-25.00	14.40	31.68	H	359	1

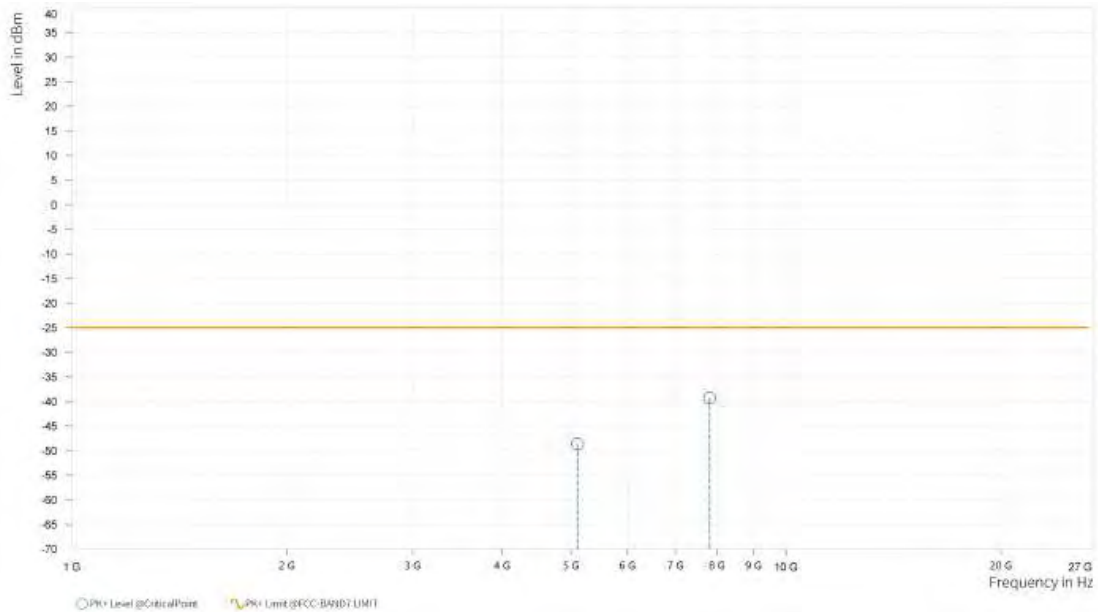




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,108.500	-48.69	-25.00	23.69	26.21	V	359	2
5	7,815.500	-39.28	-25.00	14.28	33.07	V	359	1



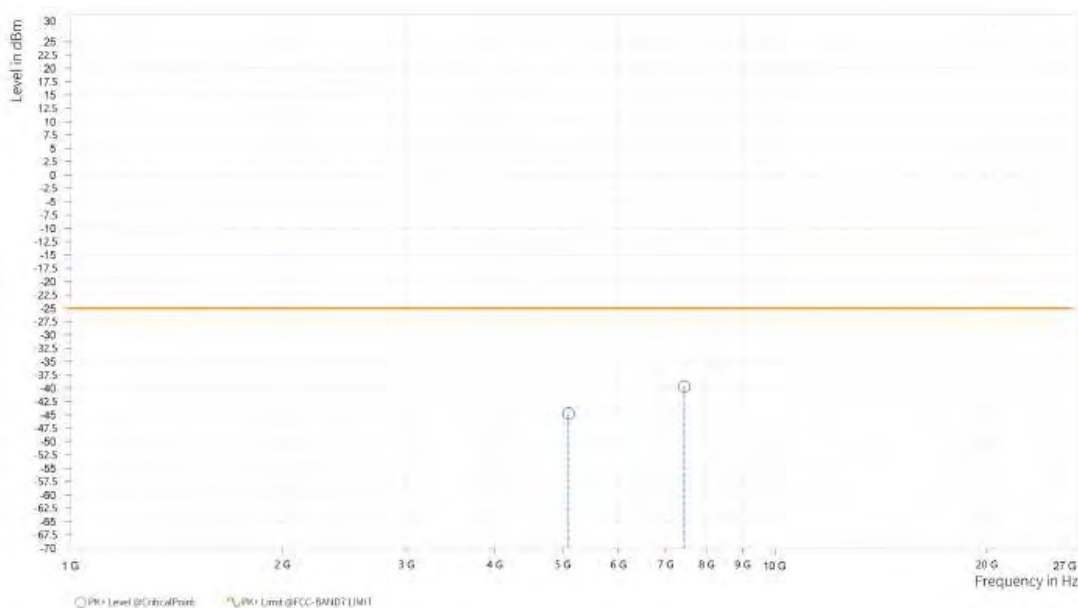


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 90MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,098.000	-44.78	-25.00	19.78	26.04	H	1	2
5	7,435.000	-39.66	-25.00	14.66	31.60	H	275.7	1



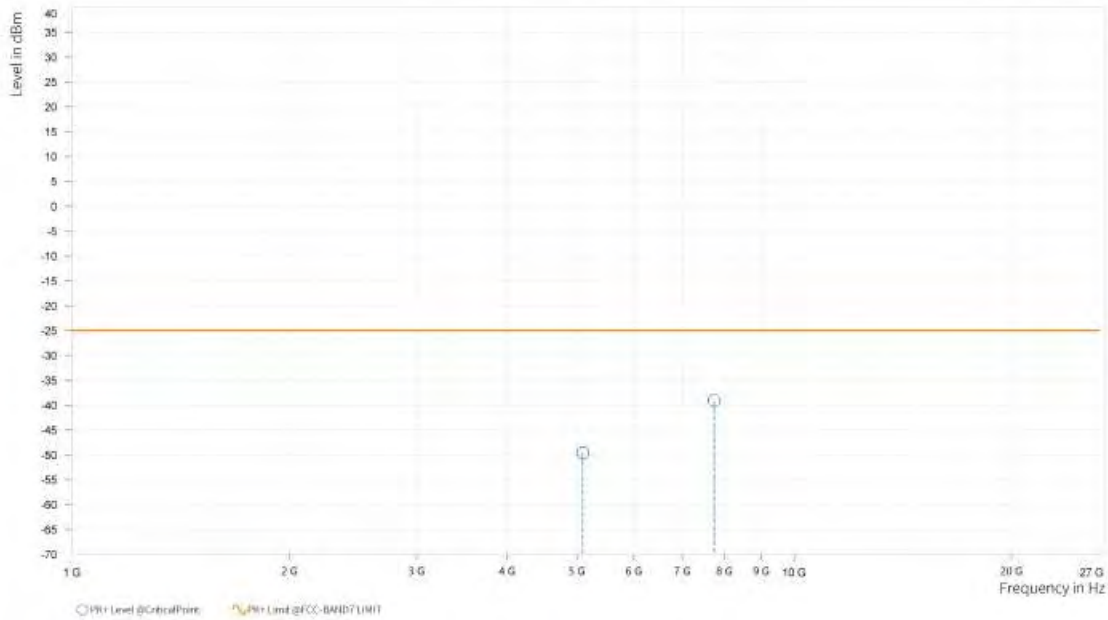




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK- Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,098.000	-49.62	-25.00	24.62	26.14	V	359	2
5	7,749.500	-39.09	-25.00	14.09	33.03	V	52	2



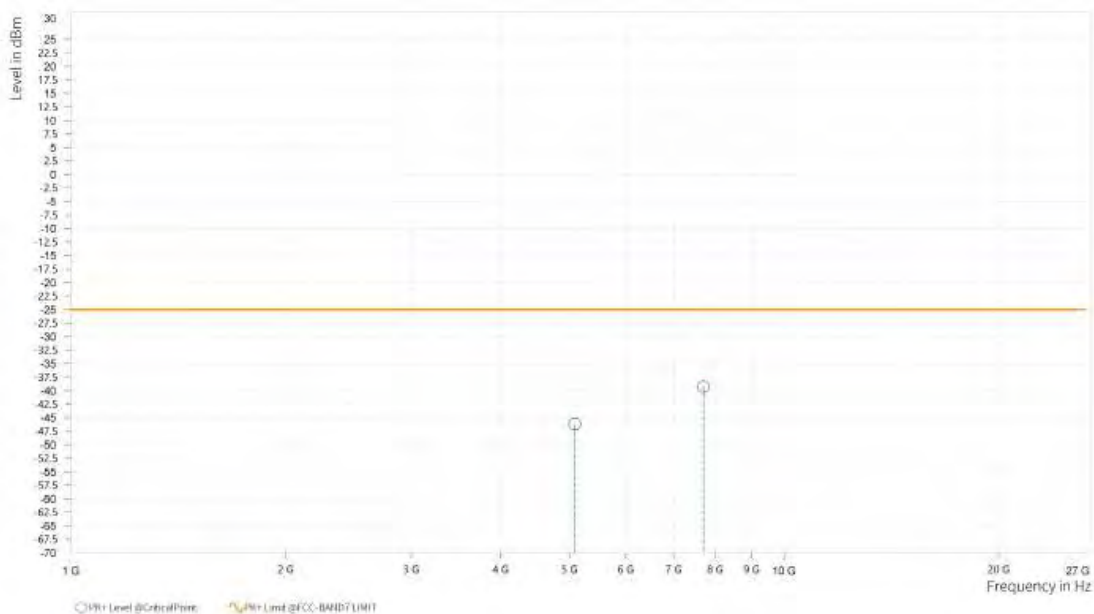


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,088.000	-46.14	-25.00	21.14	25.94	H	0.9	2
5	7,713.500	-39.26	-25.00	14.26	32.76	H	1	1

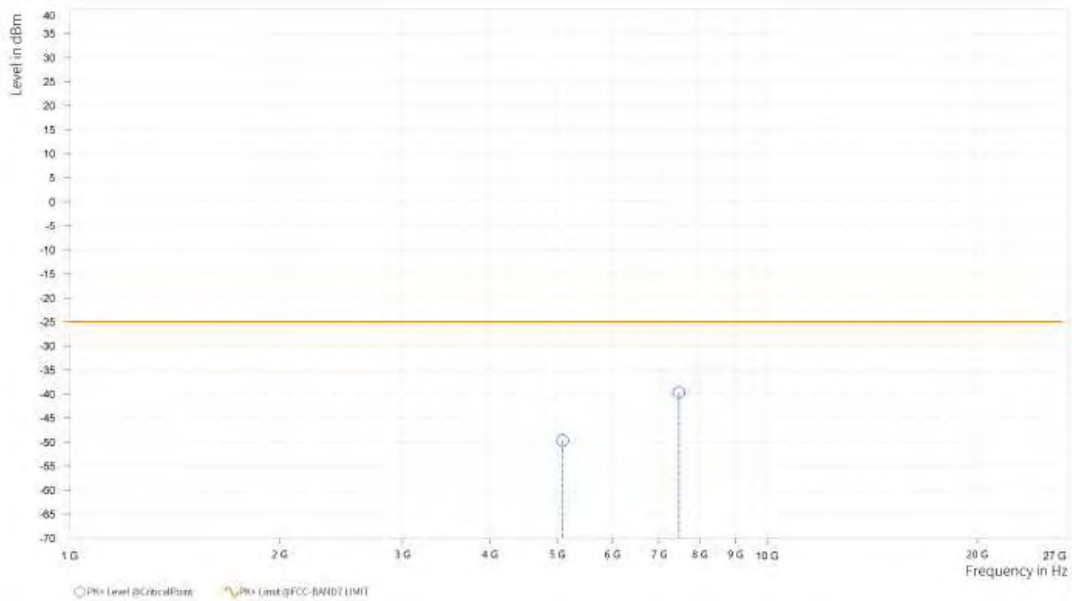




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,088.500	-49.69	-25.00	24.69	26.00	V	1	2
5	7,470.000	-39.71	-25.00	14.71	31.76	V	278.1	1





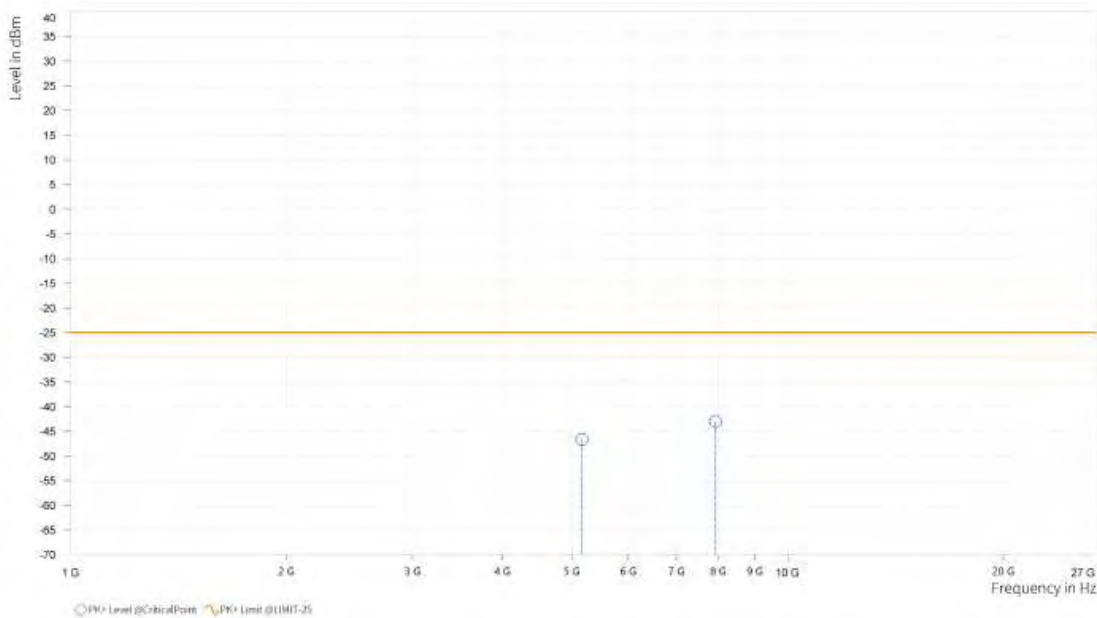
Test Report No.: W7L-P23100014RF12

N41: SRS-2 (ANT 2)

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 518598	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,168.000	-46.65	-25.00	21.65	26.18	H	1	1
5	7,937.500	-43.01	-25.00	18.01	32.99	H	68.7	2

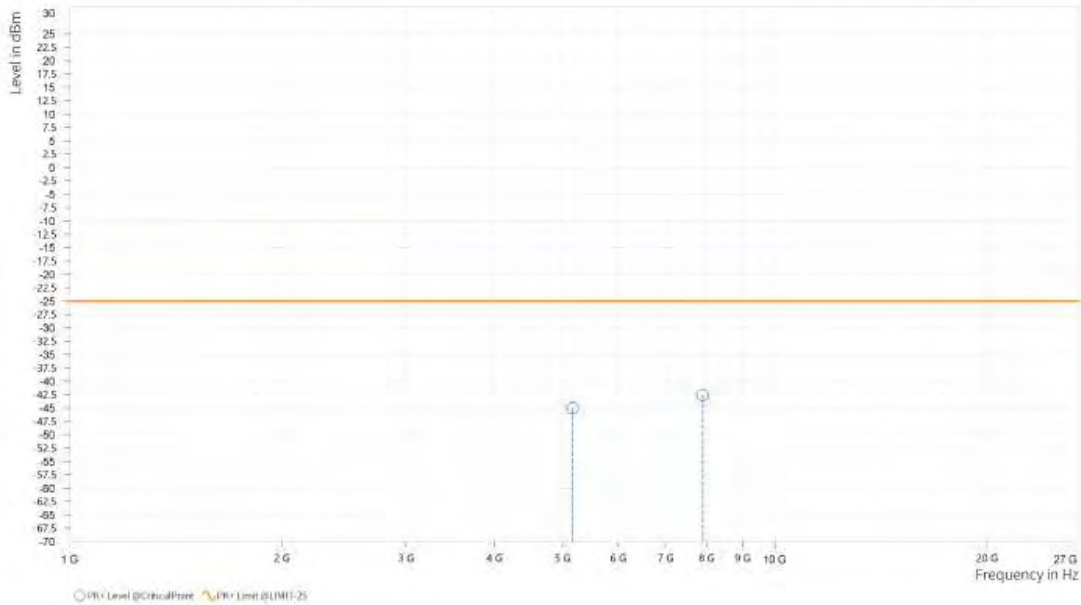




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,168.000	-45.04	-25.00	20.04	26.05	V	0.9	2
5	7,898.500	-42.61	-25.00	17.61	33.06	V	0.9	2



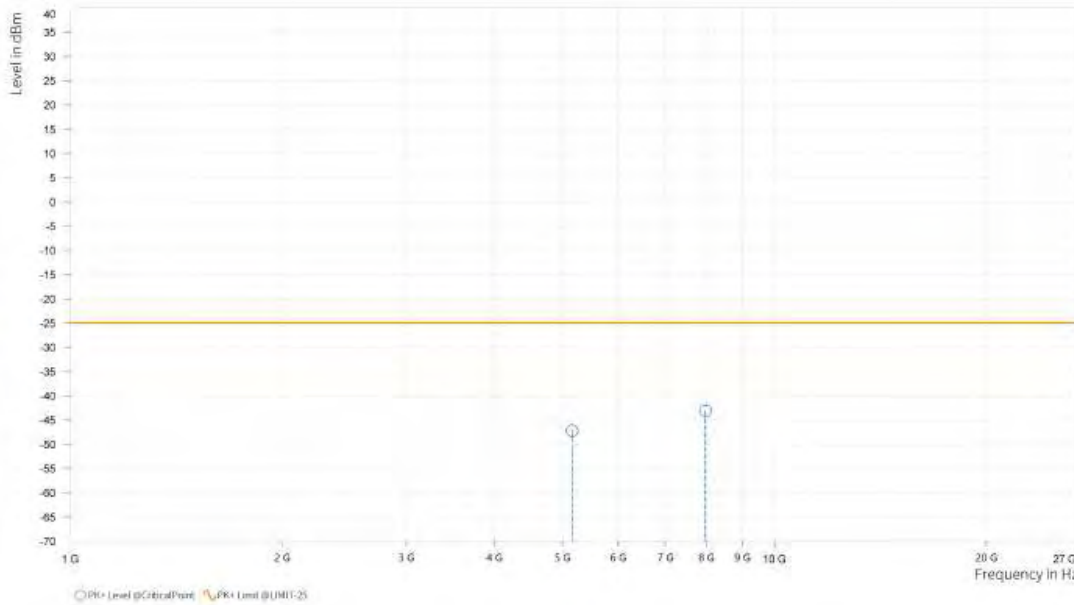


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 30MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,158.500	-47.21	-25.00	22.21	26.22	H	359	2
5	7,975.500	-43.08	-25.00	18.08	32.99	H	83	2

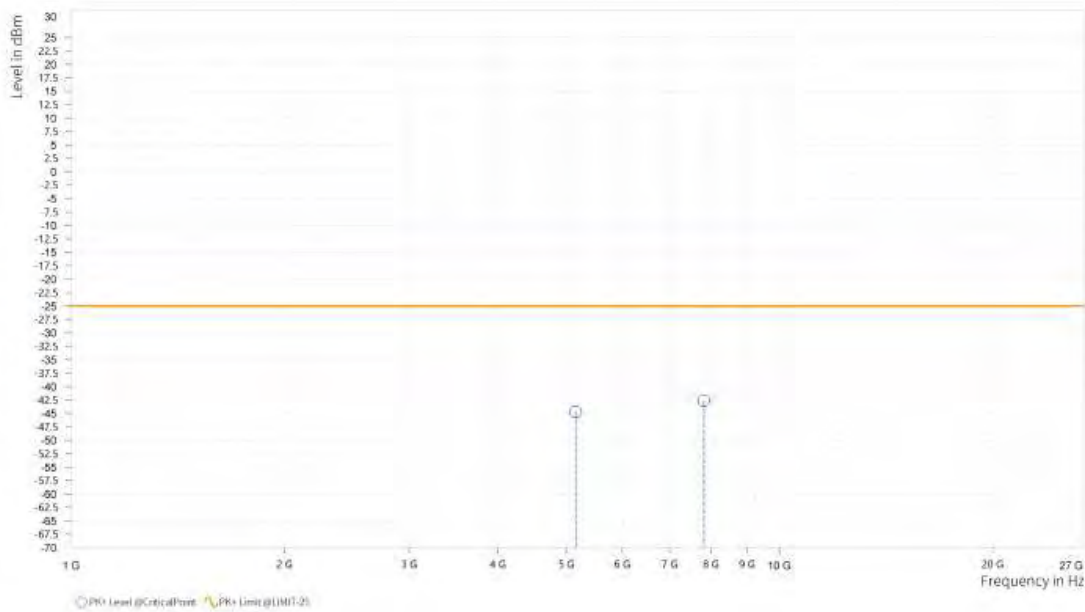




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,158.000	-44.74	-25.00	19.74	26.14	V	359	2
5	7,820.500	-42.59	-25.00	17.59	33.07	V	69.9	2



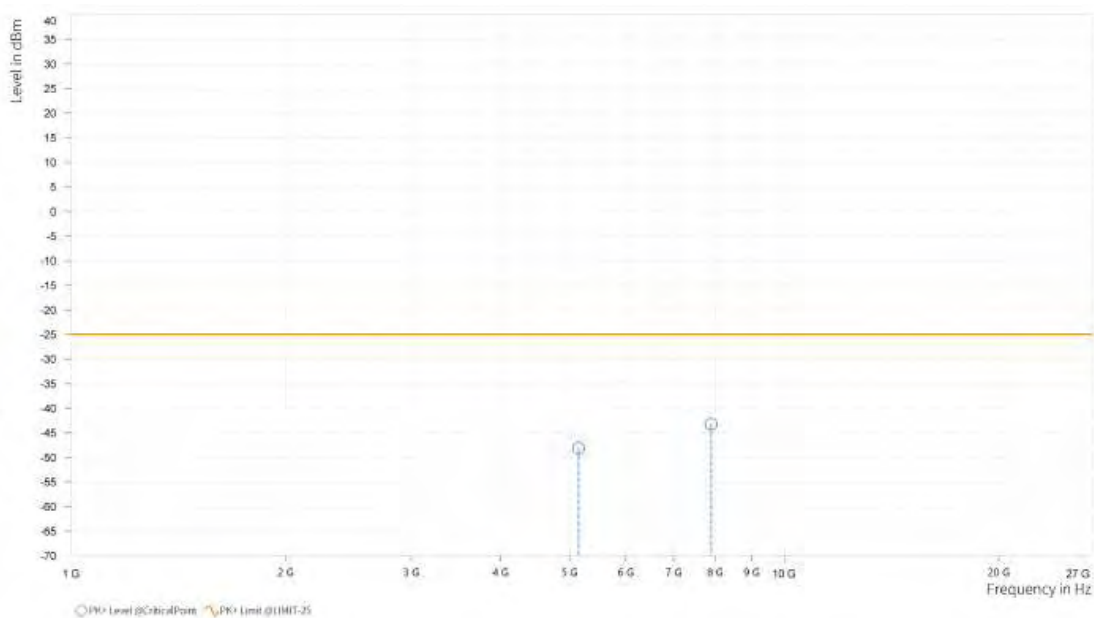


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 40MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,148.500	-48.13	-25.00	23.13	26.23	H	0.9	2
5	7,899.500	-43.28	-25.00	18.28	33.01	H	359	1



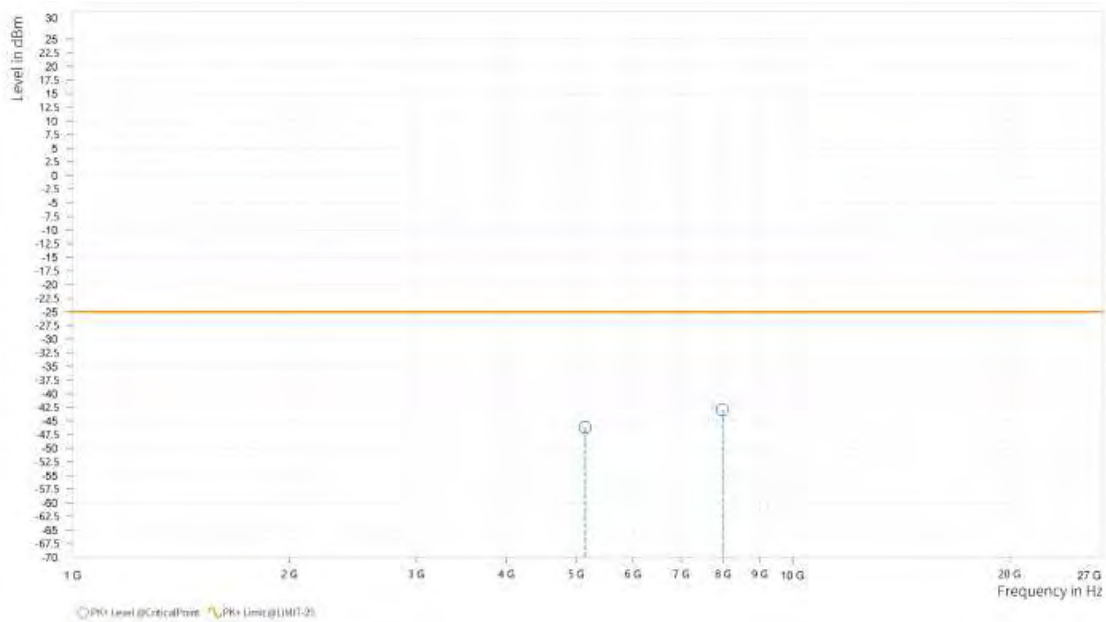




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,148.000	-46.15	-25.00	21.15	26.20	V	1	1
5	7,995.500	-42.99	-25.00	17.99	33.34	V	1	1



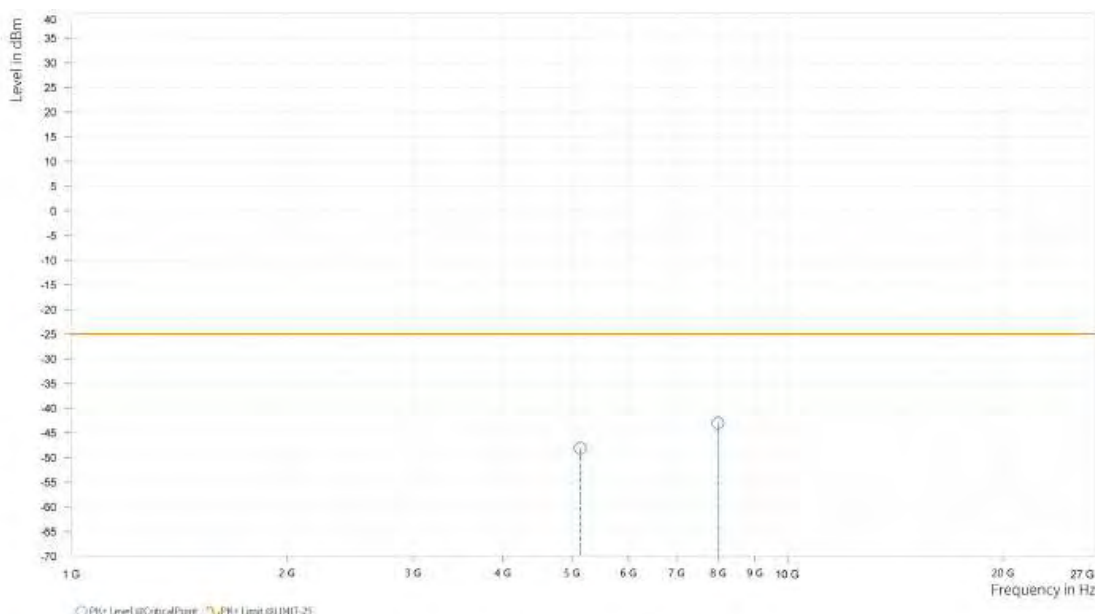


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,138.500	-48.11	-25.00	23,11	26.21	H	359	2
5	7,998.500	-42.99	-25.00	17,99	33.15	H	359.1	1

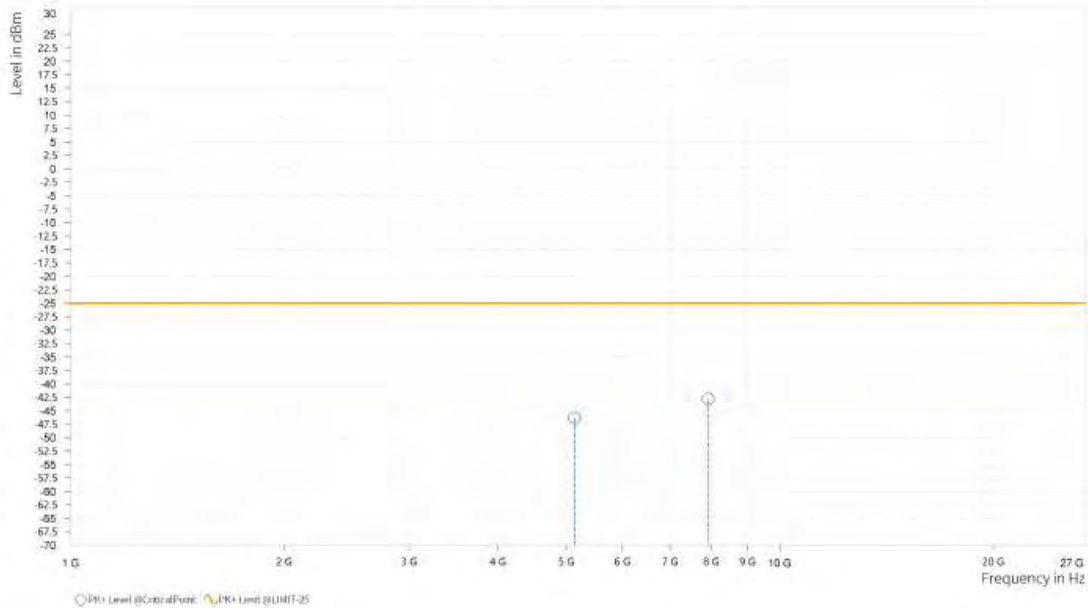




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,138.500	-46.32	-25.00	21.32	26.21	V	190.8	1
5	7,921.000	-42.77	-25.00	17.77	33.13	V	1	1





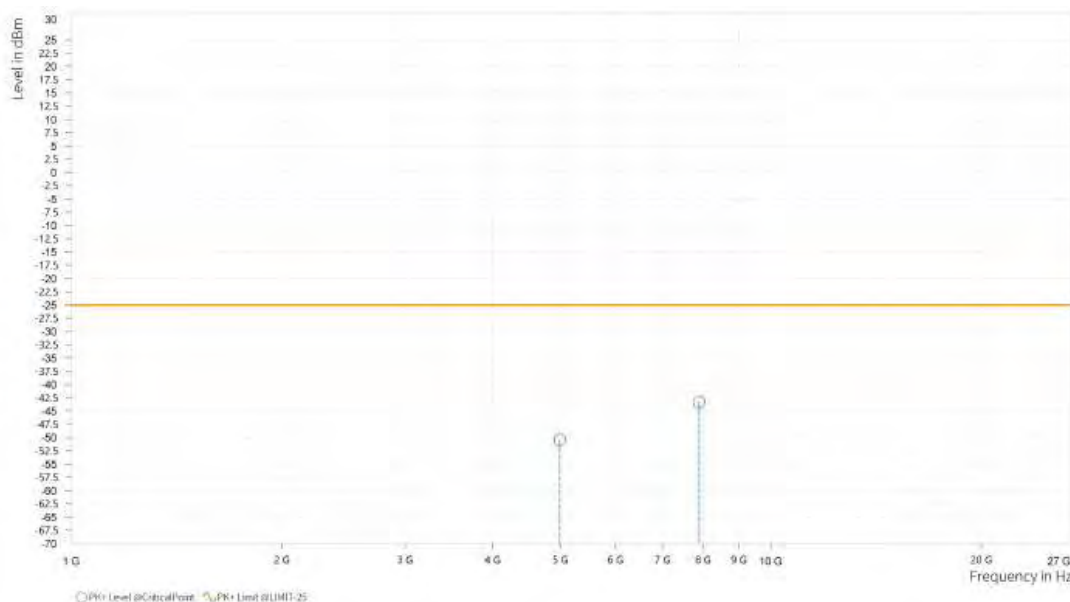
Test Report No.: W7L-P23100014RF12

CHANNEL BANDWIDTH: 60MHz / QPSK

CH 505200:

MODE	TX channel 505200	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,994.000	-50.45	-25.00	25.45	25.47	H	359	1
5	7,900.500	-43.30	-25.00	18.30	33.01	H	0.9	2

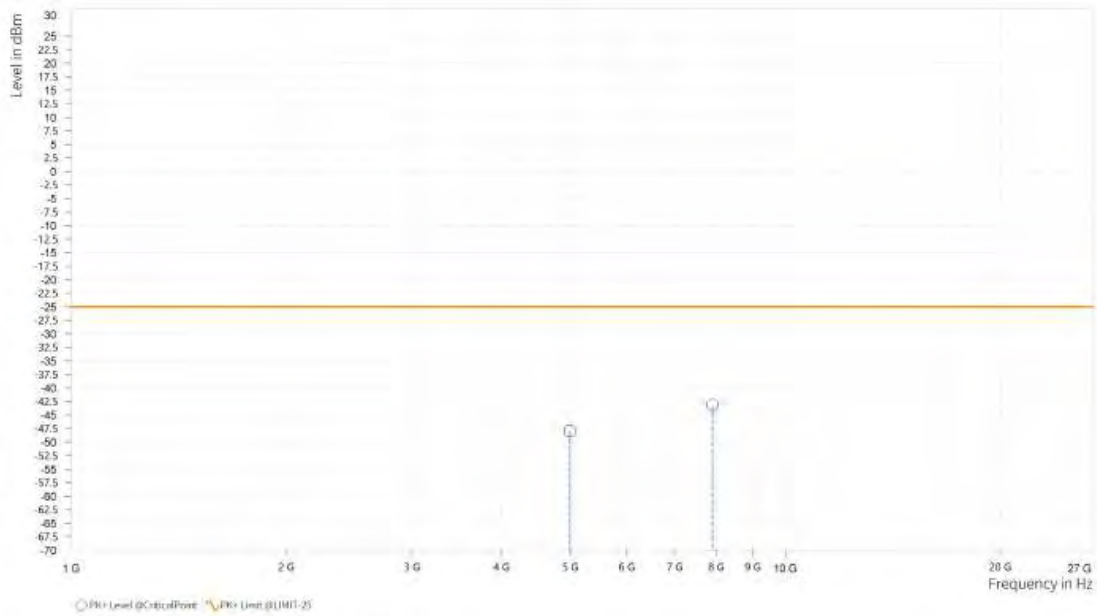




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 505200	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,994.000	-47.95	-25.00	22.95	25.30	V	1	2
5	7,904.000	-43.11	-25.00	18.11	33.07	V	1	2



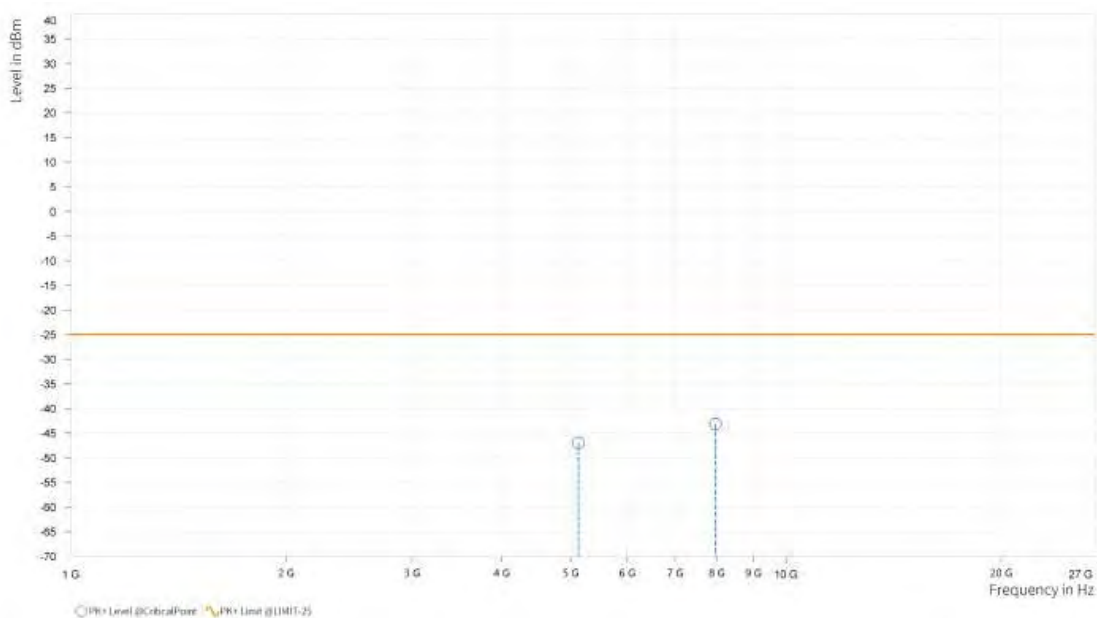


Test Report No.: W7L-P23100014RF12

CH 518598:

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,128.000	-46.96	-25.00	21.96	26.19	H	166.6	2
5	7,970.500	-43.12	-25.00	18.12	32.97	H	79.4	2

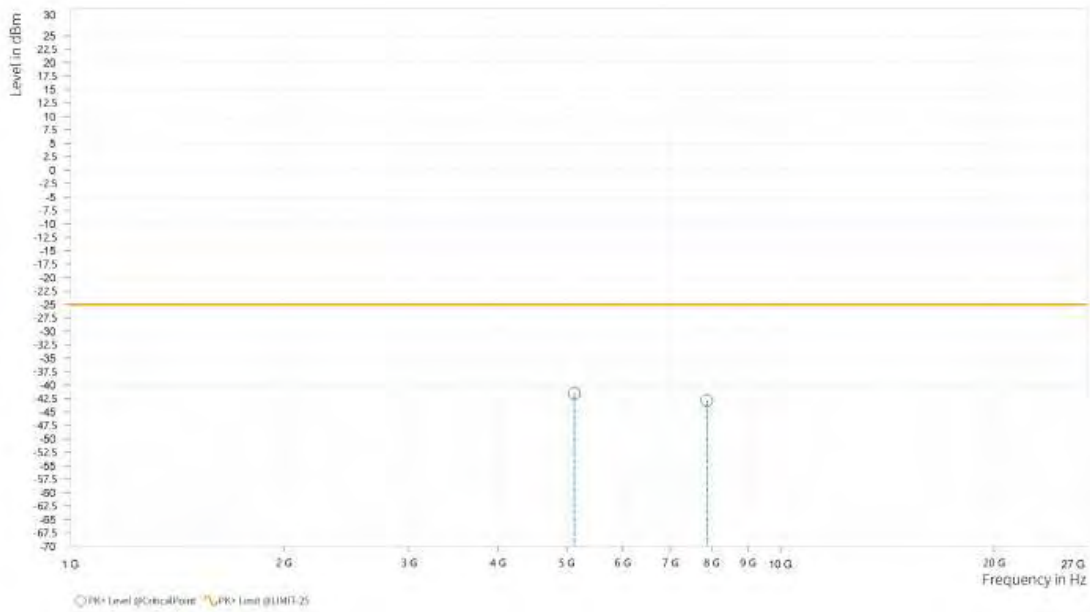




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,128.000	-41.54	-25.00	16.54	26.22	V	1	1
5	7,878.000	-42.86	-25.00	17.86	33.05	V	359	2



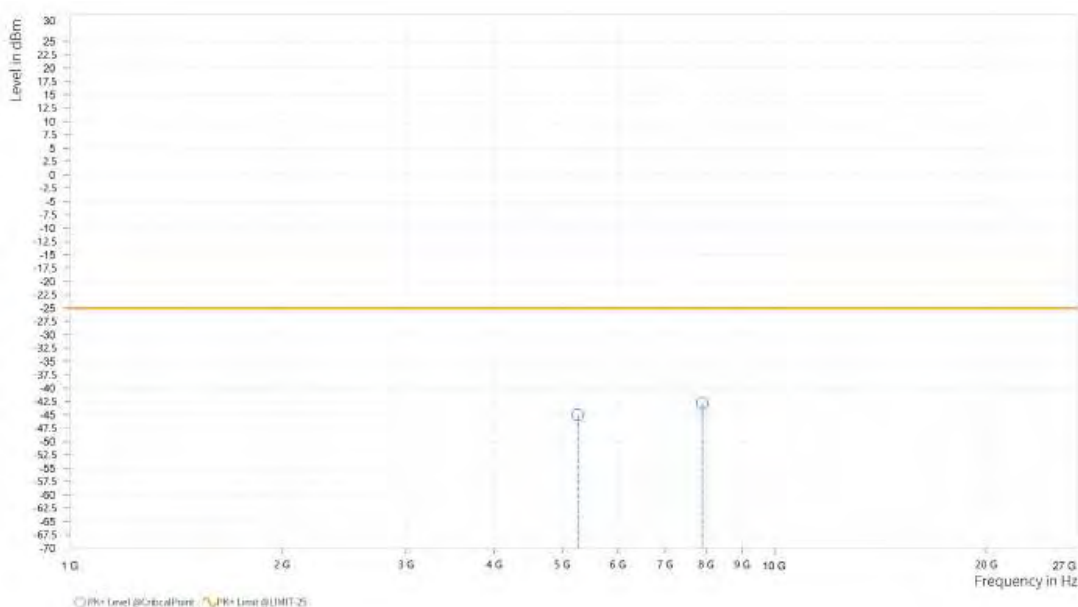


Test Report No.: W7L-P23100014RF12

CH 531996:

<b>MODE</b>	TX channel 531996	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,262.000	-45.01	-25.00	20.01	26.28	H	359	2
5	7,908.500	-42.81	-25.00	17.81	33.01	H	359	2



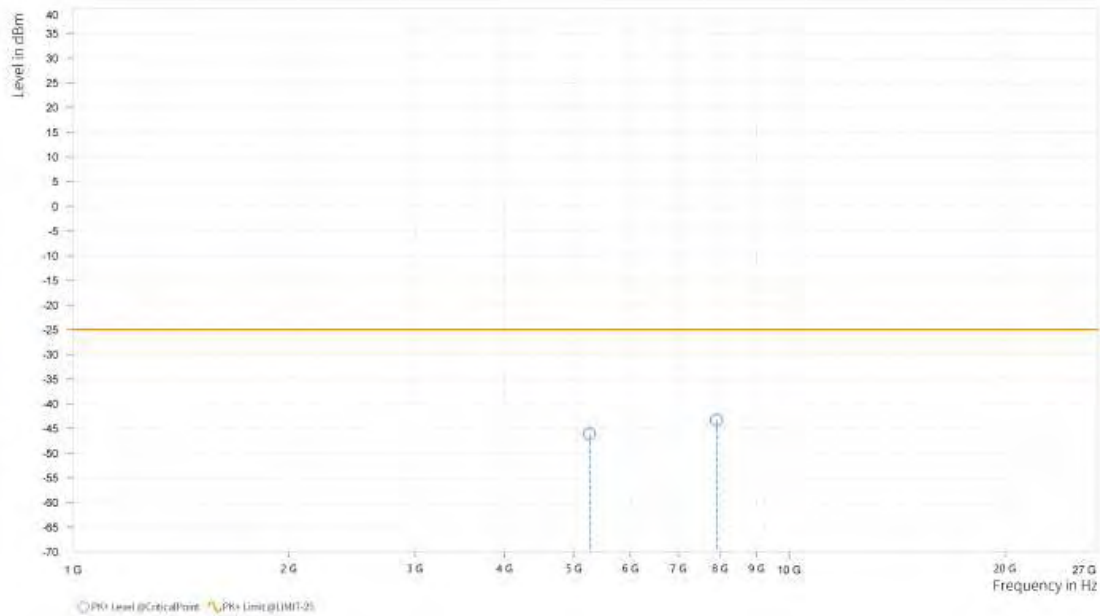




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 531996	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,262.000	-46.13	-25.00	21.13	25.96	V	1	2
5	7,916.500	-43.33	-25.00	18.33	33.11	V	1	1



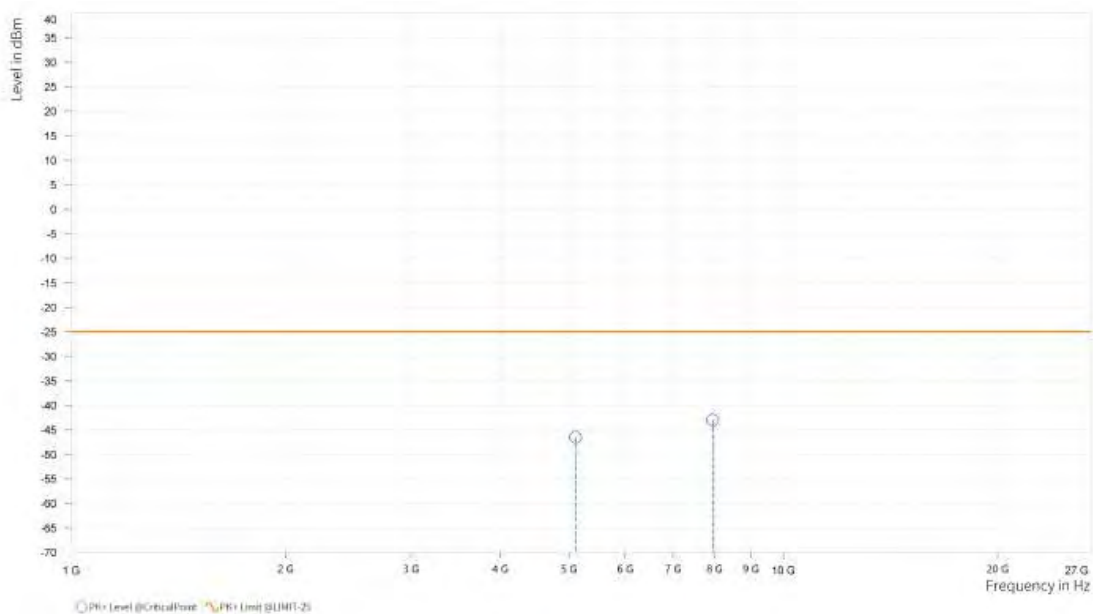


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 80MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,108.000	-46.50	-25.00	21.50	26.13	H	305.5	1
5	7,956.000	-43.00	-25.00	18.00	32.98	H	359	1

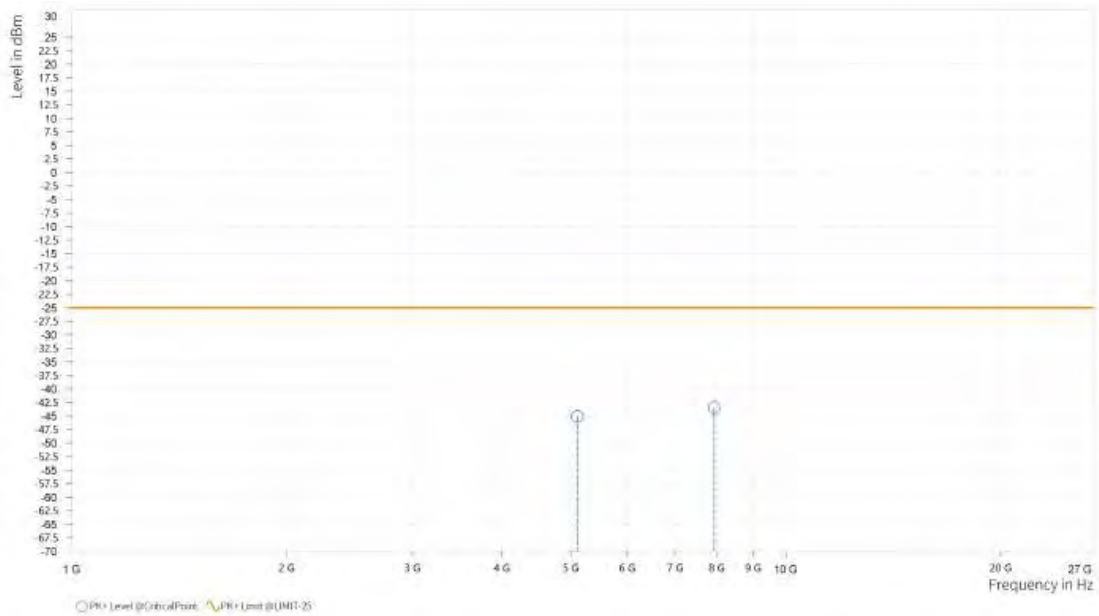




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,108.500	-45.07	-25.00	20.07	26.21	V	1	2
5	7,939.500	-43.38	-25.00	18.38	33.18	V	1	2



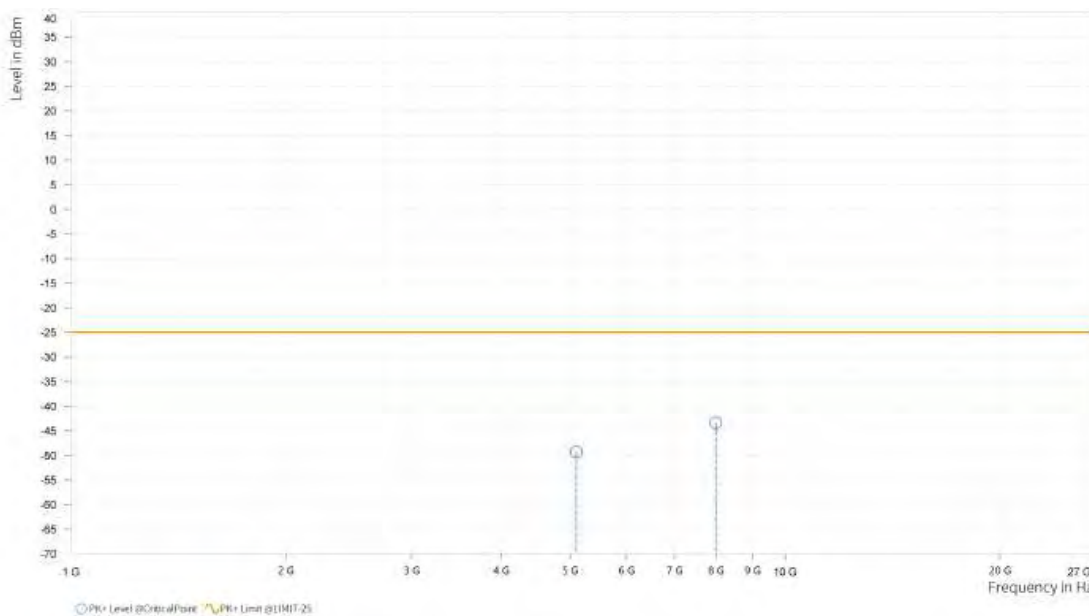


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 90MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,098.500	-49.33	-25.00	24.33	26.04	H	359	2
5	7,993.500	-43.38	-25.00	18.38	33.12	H	1	2

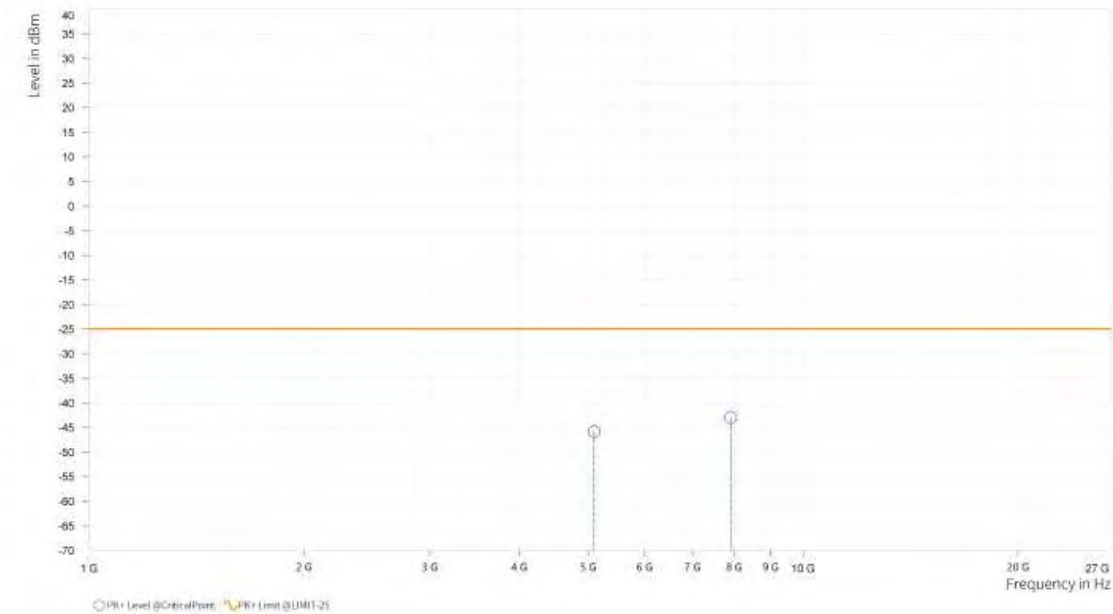




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,098.000	-45.85	-25.00	20.85	26.14	V	1	1
5	7,915.500	-42.97	-25.00	17.97	33.11	V	1	2



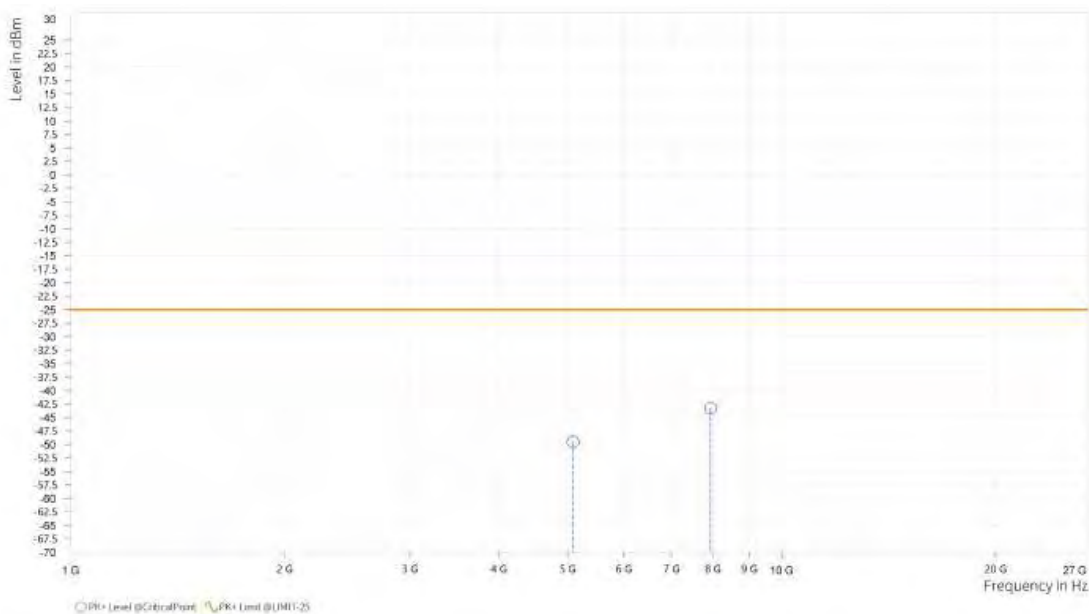


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,088.000	-49.54	-25.00	24.54	25.94	H	164.2	2
5	7,940.000	-43.29	-25.00	18.29	32.99	H	77	2

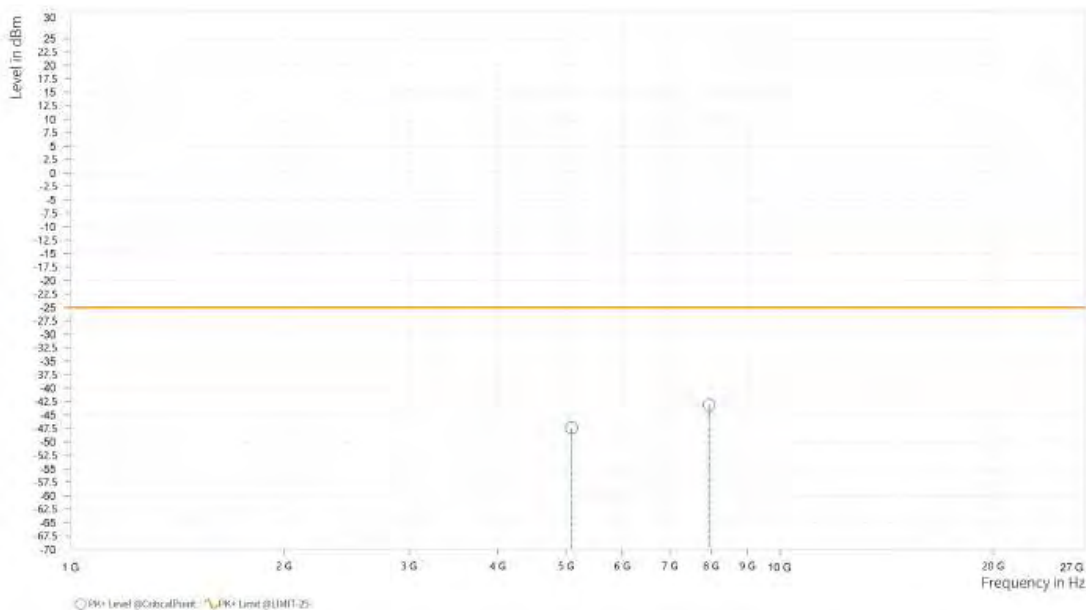




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,088.000	-47.37	-25.00	22.37	25.99	V	359	2
5	7,954.000	-43.09	-25.00	18.09	33.22	V	61.7	2





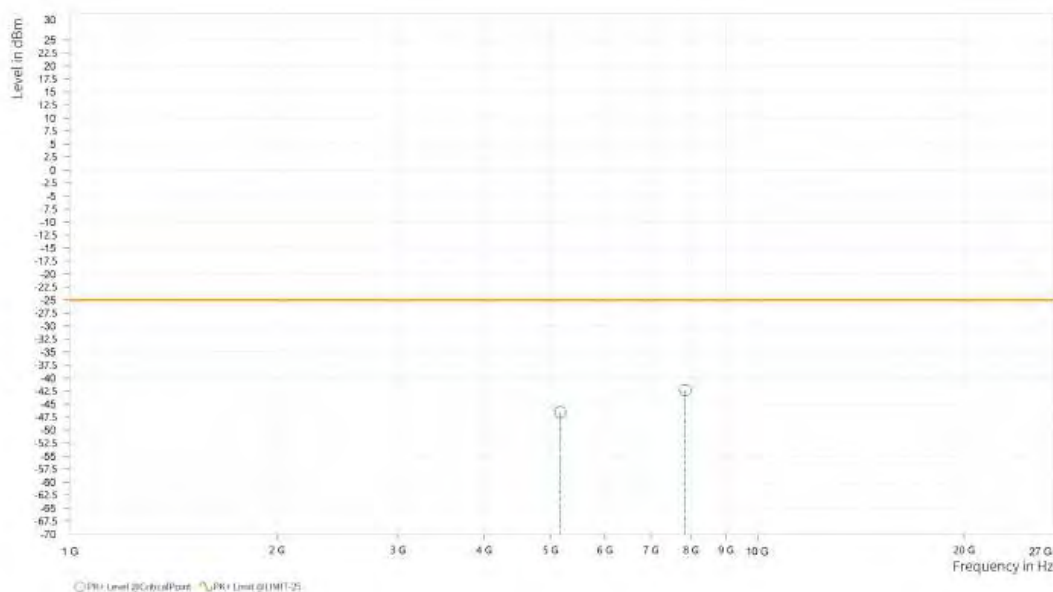
Test Report No.: W7L-P23100014RF12

N41: SRS-3 (ANT 3)

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 518598	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,168.000	-46.58	-25.00	21.58	26.18	H	151.2	2
5	7,856.500	-42.34	-25.00	17.34	32.98	H	1	1



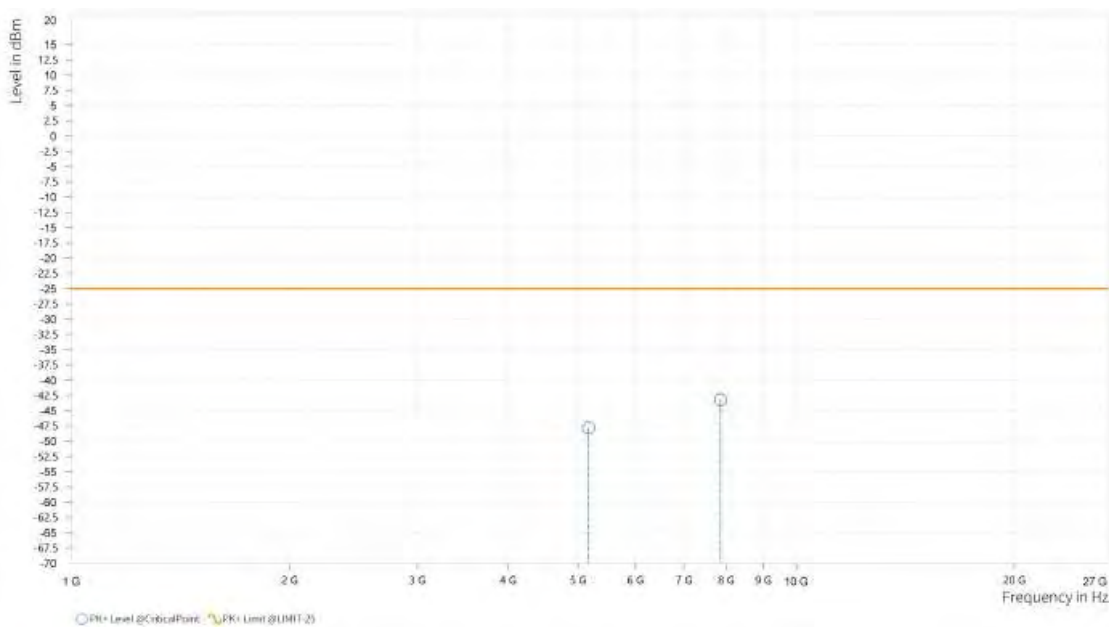




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,168.500	-47.82	-25.00	22.82	26.05	V	359	2
5	7,862.500	-43.18	-25.00	18.18	33.05	V	1	1





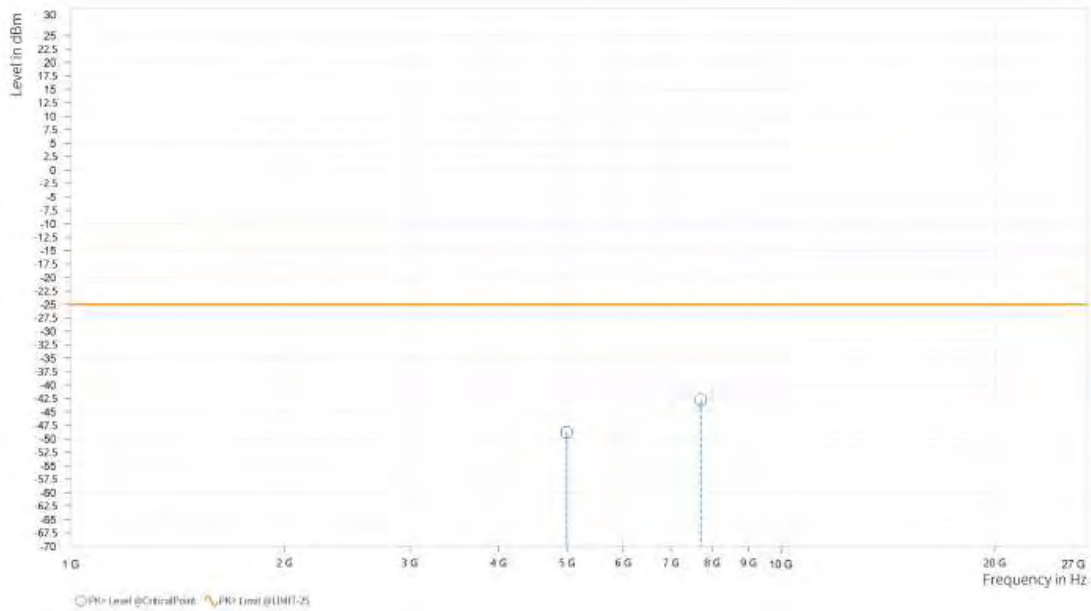
Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 30MHz / QPSK**

**CH 502200:**

<b>MODE</b>	TX channel 502200	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,994.500	-48.80	-25.00	23.80	25.47	H	1	2
5	7,710.000	-42.75	-25.00	17.75	32.76	H	1	1

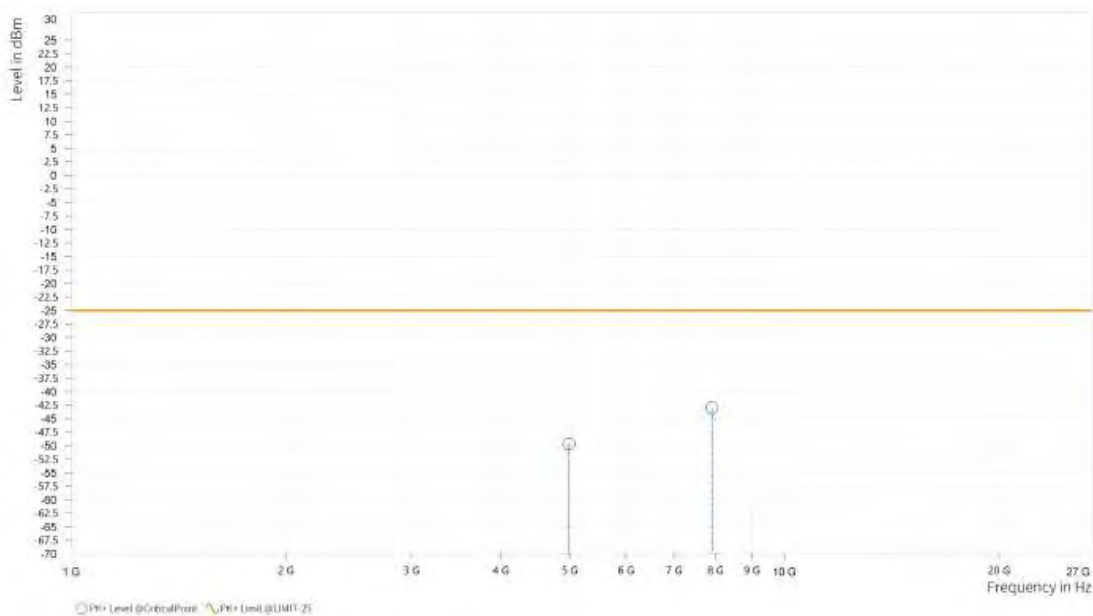




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 502200	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,987.500	-49.68	-25.00	24.68	25.28	V	359	2
5	7,914.000	-43.02	-25.00	18.02	33.11	V	75.9	2



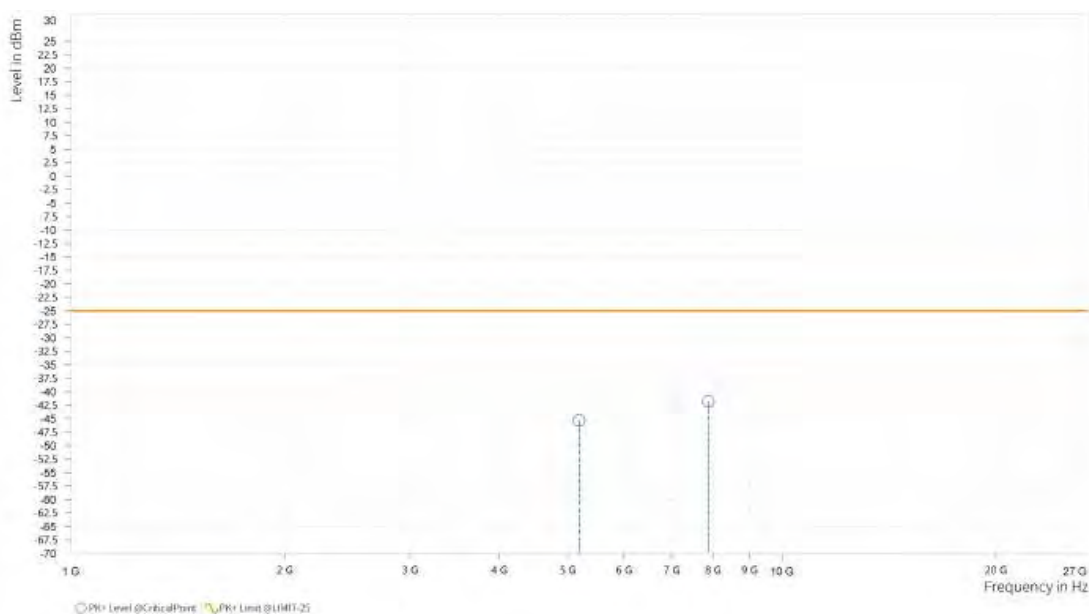


Test Report No.: W7L-P23100014RF12

CH 518598:

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,186.500	-45.33	-25.00	20,33	26.08	H	1	1
5	7,877.500	-41.84	-25.00	16,84	33.00	H	359	2

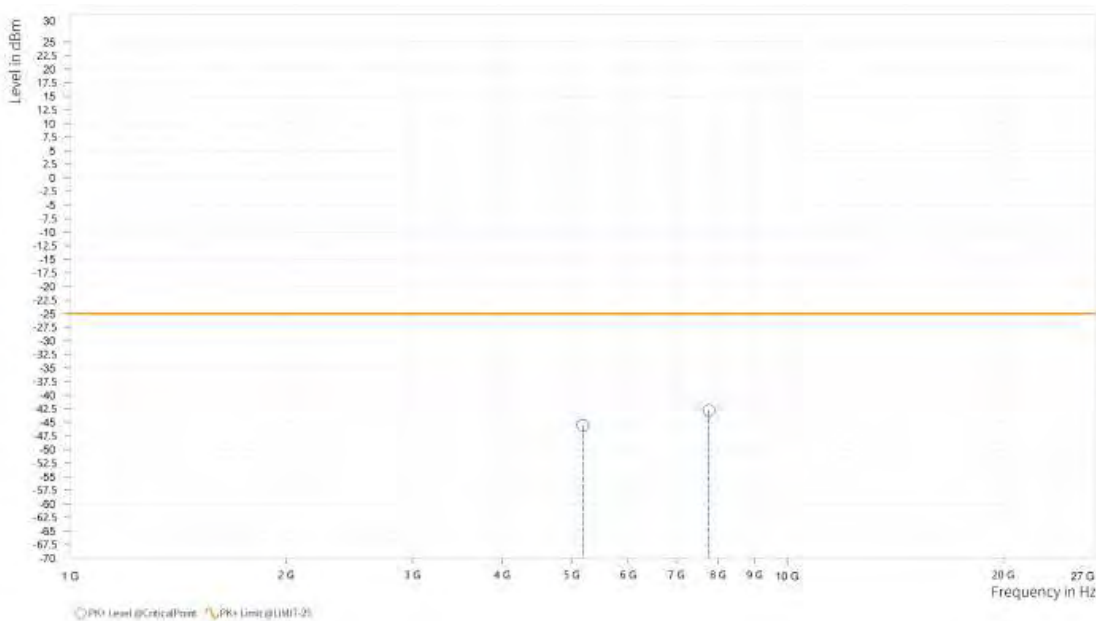




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,186.000	-45.59	-25.00	20.59	25.86	V	1	2
5	7,772.000	-42.80	-25.00	17.80	33.03	V	1	2



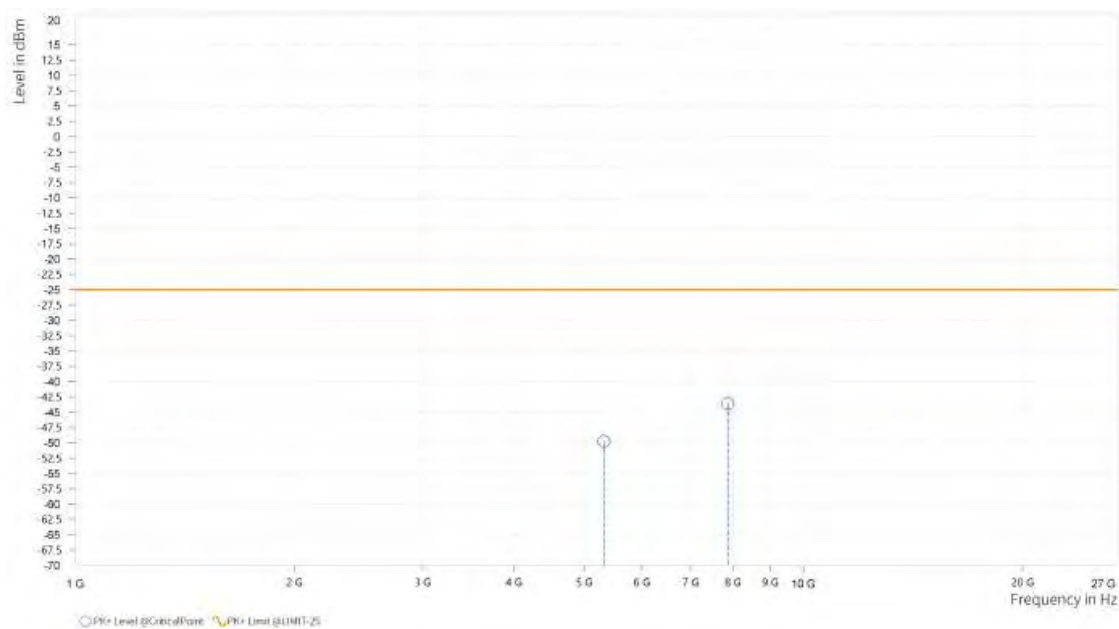


Test Report No.: W7L-P23100014RF12

CH 534996:

<b>MODE</b>	TX channel 534996	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,322.000	-49.77	-25.00	24.77	26.07	H	1	1
5	7,874.500	-43.59	-25.00	18.59	33.00	H	91.4	2

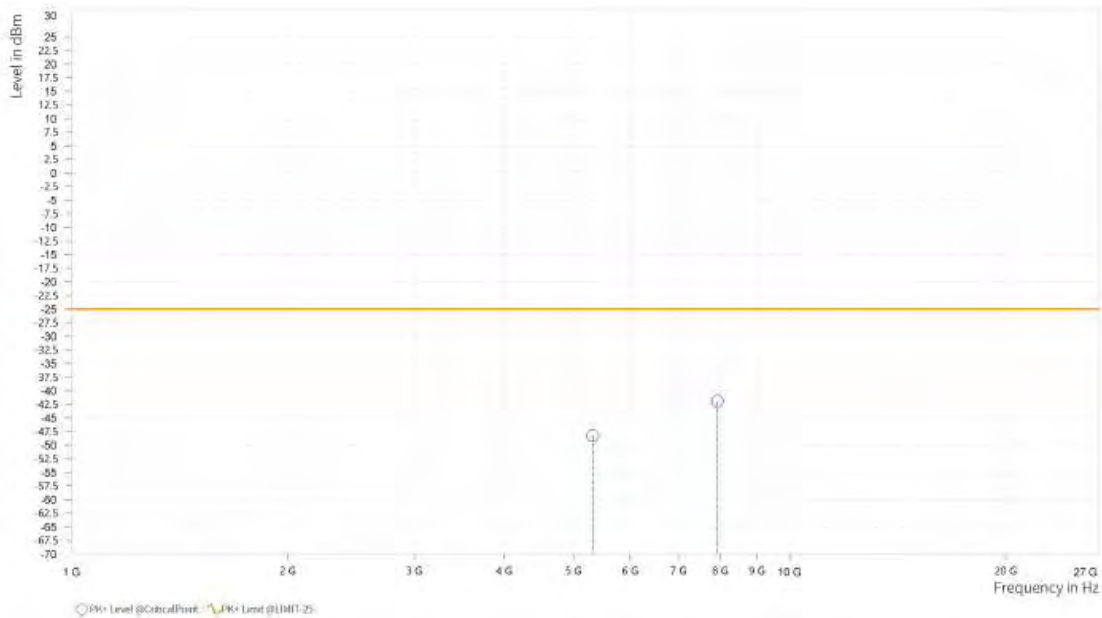




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 534996	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,322.500	-48.25	-25.00	23.25	26.67	V	1	2
5	7,938.000	-41.95	-25.00	16.95	33.18	V	359.1	1



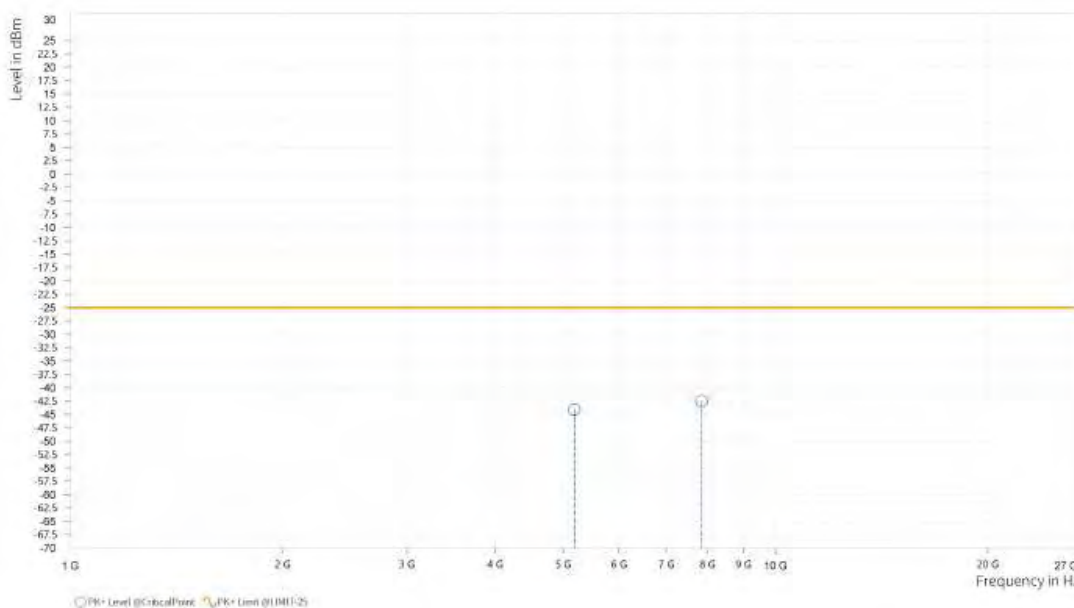


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 40MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,186.500	-44.12	-25.00	19.12	26.08	H	1	1
5	7,855.000	-42.50	-25.00	17.50	32.98	H	359	2



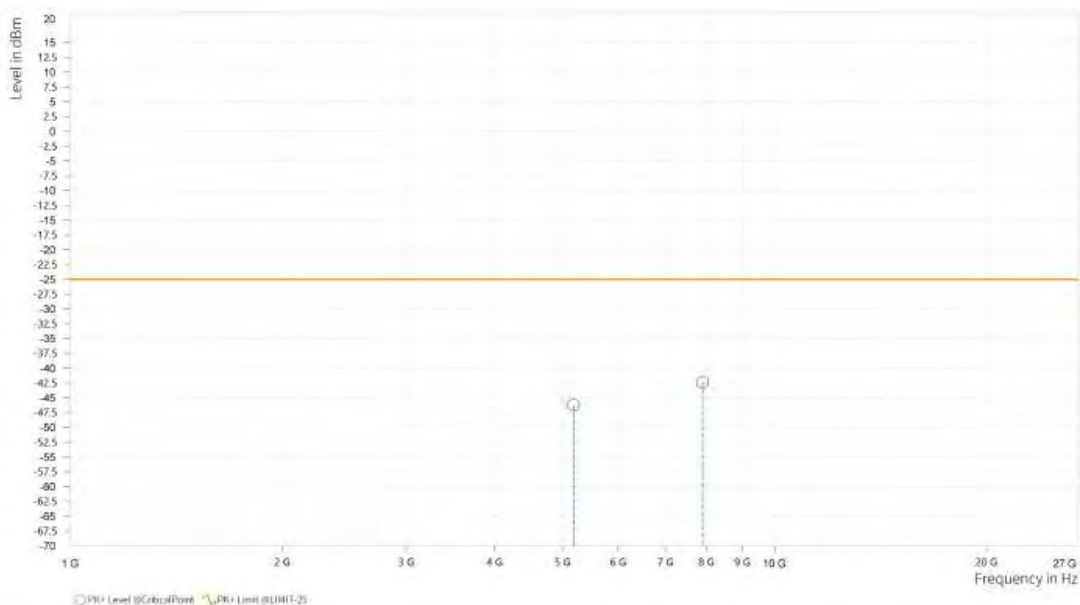




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,186.500	-46.23	-25.00	21.23	25.85	V	1	2
5	7,907.000	-42.40	-25.00	17.40	33.08	V	359	1



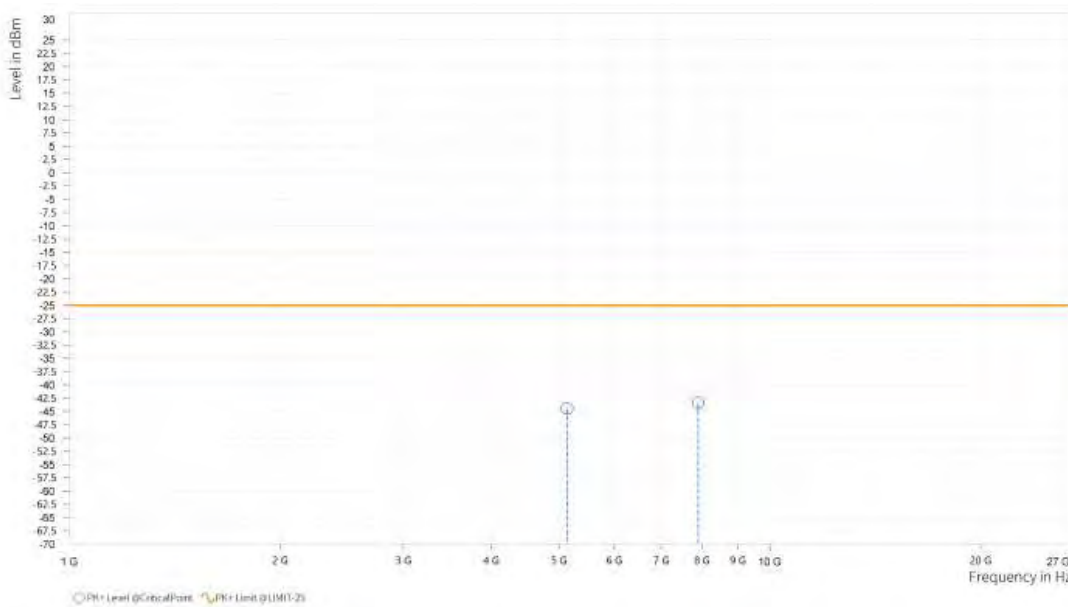


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,138.500	-44.46	-25.00	19.46	26.21	H	161.8	2
5	7,900.500	-43.35	-25.00	18.35	33.01	H	0.9	2

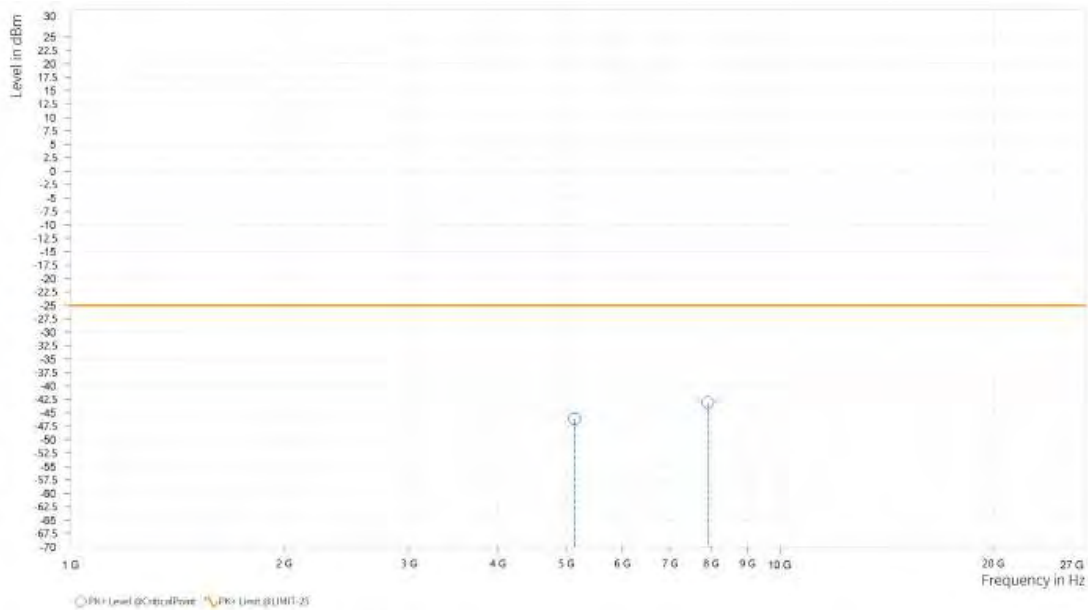




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,138.500	-46.12	-25.00	21.12	26.21	V	182.4	1
5	7,920.500	-43.07	-25.00	18.07	33.13	V	79.5	2



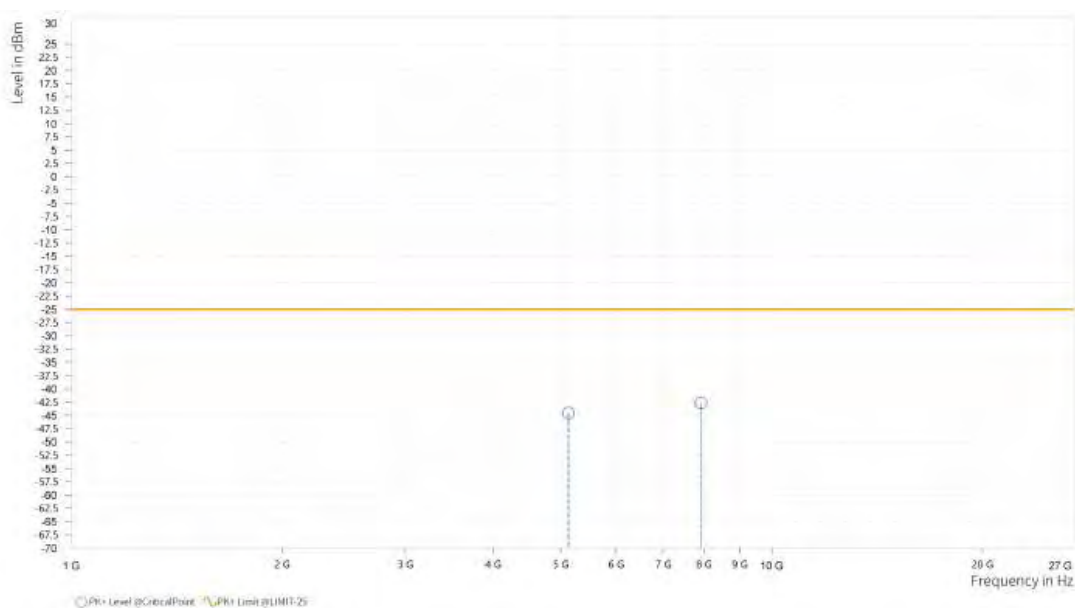


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 60MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,128.000	-44.58	-25.00	19.58	26.19	H	0.9	2
5	7,922.000	-42.65	-25.00	17.65	33.00	H	359	2

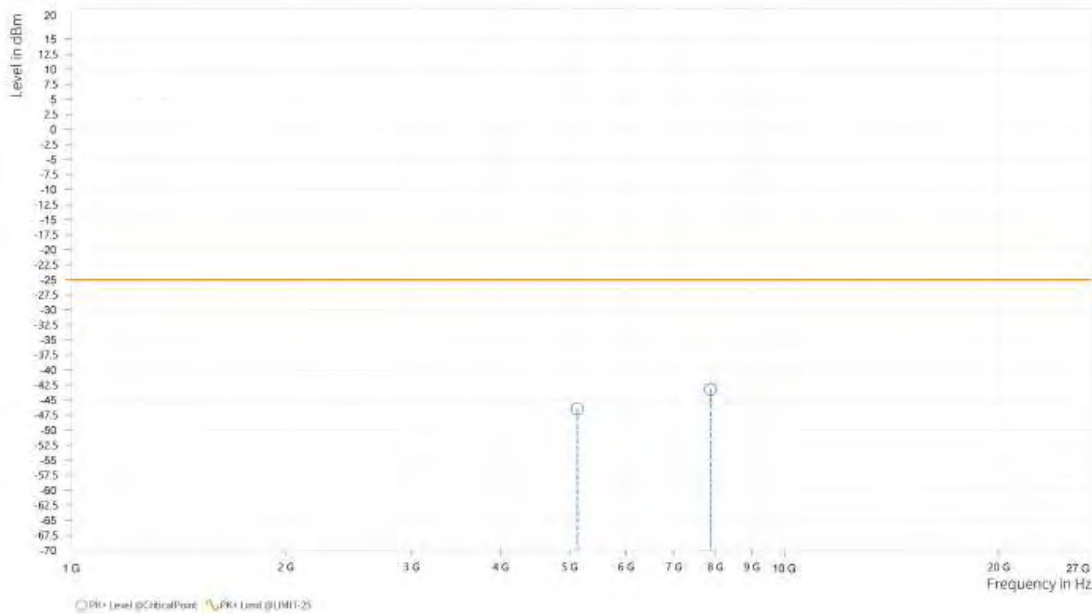




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,128.000	-46.51	-25.00	21.51	26.22	V	1	2
5	7,886.000	-43.22	-25.00	18.22	33.04	V	77.1	2



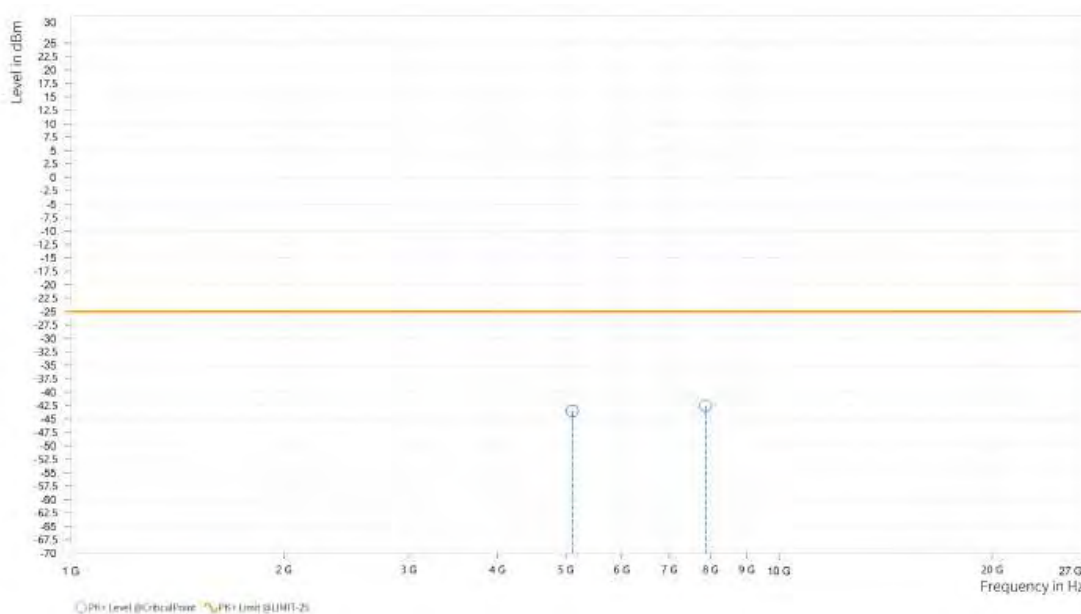


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 80MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,108.000	-43.52	-25.00	18.52	26.13	H	359.1	1
5	7,879.500	-42.54	-25.00	17.54	33.00	H	1	1

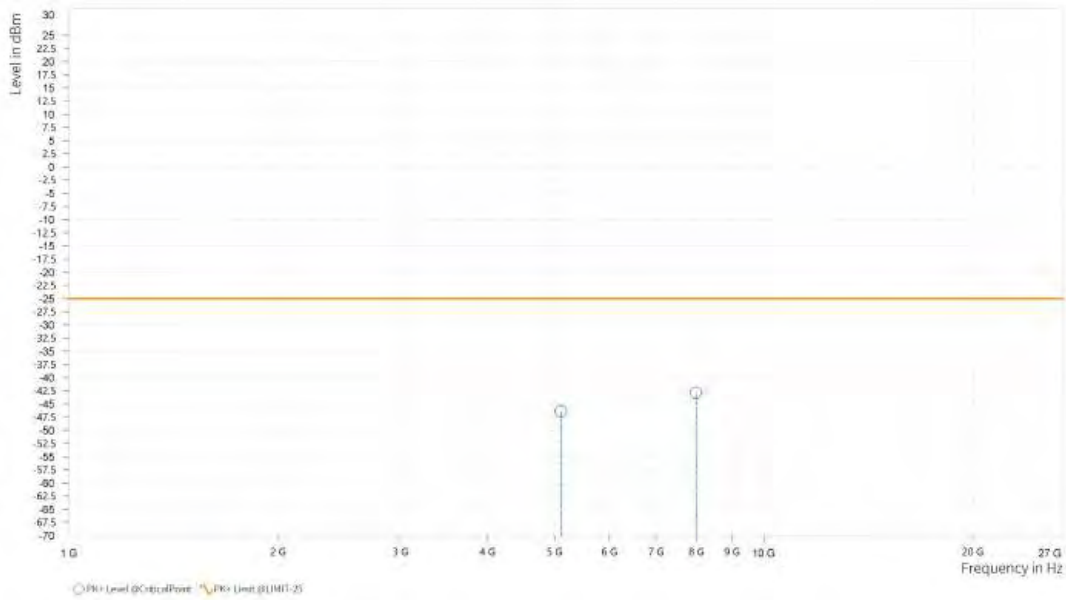




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,108.500	-46.38	-25.00	21.38	26.21	V	0.9	2
5	7,995.000	-42.85	-25.00	17.85	33.34	V	79.4	2



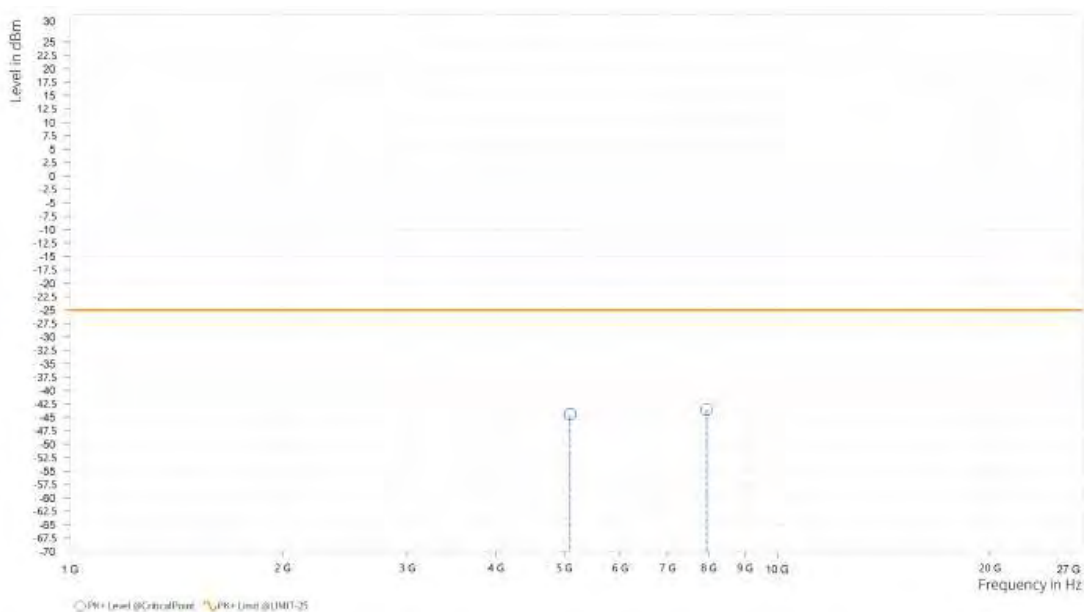


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 90MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,098.000	-44.43	-25.00	19.43	26.04	H	359	1
5	7,945.500	-43.51	-25.00	18.51	32.99	H	359	1



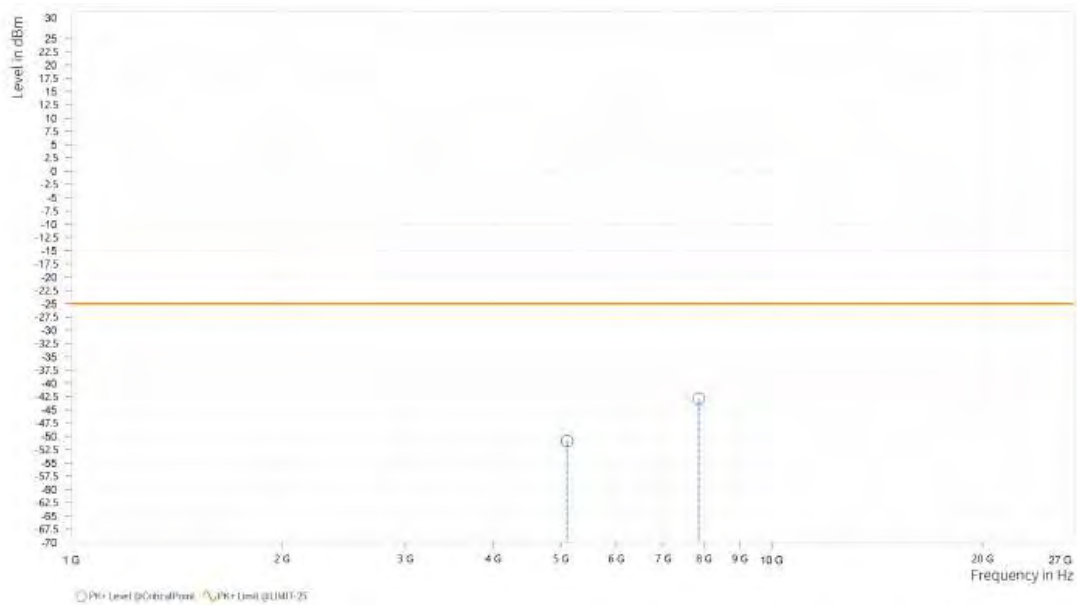




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,105.500	-50.85	-25.00	25.85	26.19	V	359	2
5	7,868.500	-42.87	-25.00	17.87	33.05	V	268.6	1



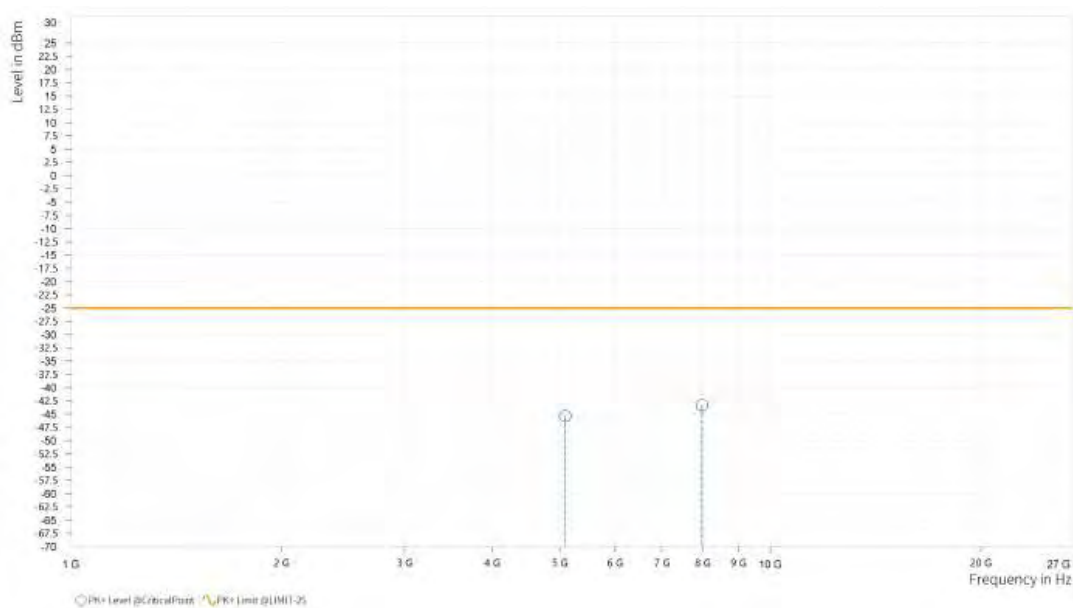


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,088.000	-45.37	-25.00	20.37	25.94	H	1	1
5	7,983.000	-43.32	-25.00	18.32	33.05	H	91.4	2

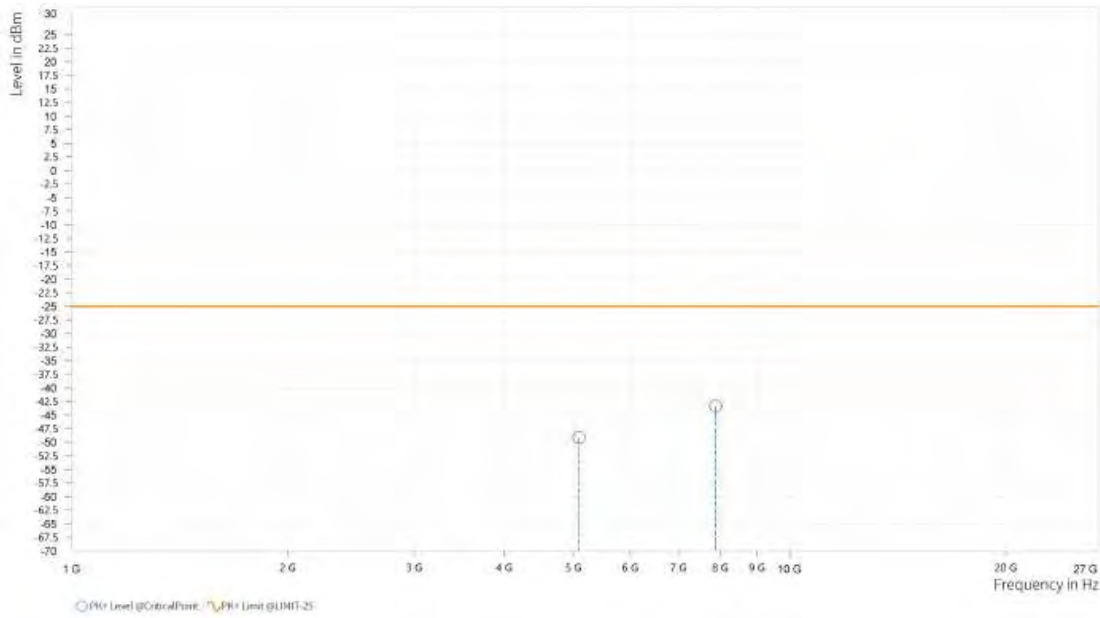




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,088.000	-49.16	-25.00	24.16	25.99	V	359	2
5	7,891.000	-43.36	-25.00	18.36	33.04	V	78.2	2





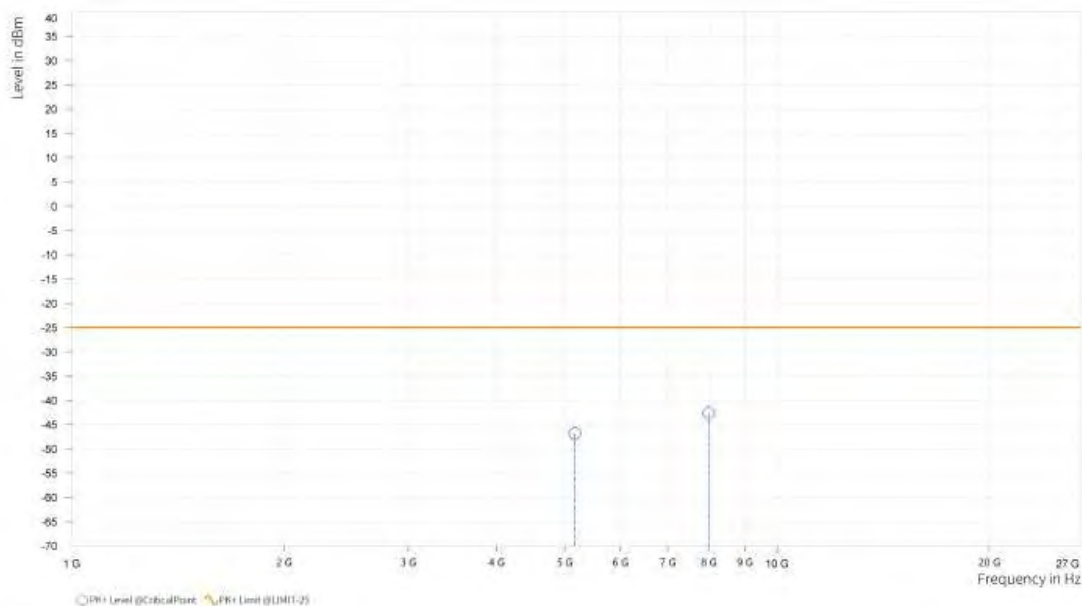
Test Report No.: W7L-P23100014RF12

N41: SRS-4 (ANT 5)

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 518598	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,167.500	-46.80	-25.00	21.80	26.19	H	359	1
5	7,997.000	-42.63	-25.00	17.63	33.14	H	359	2

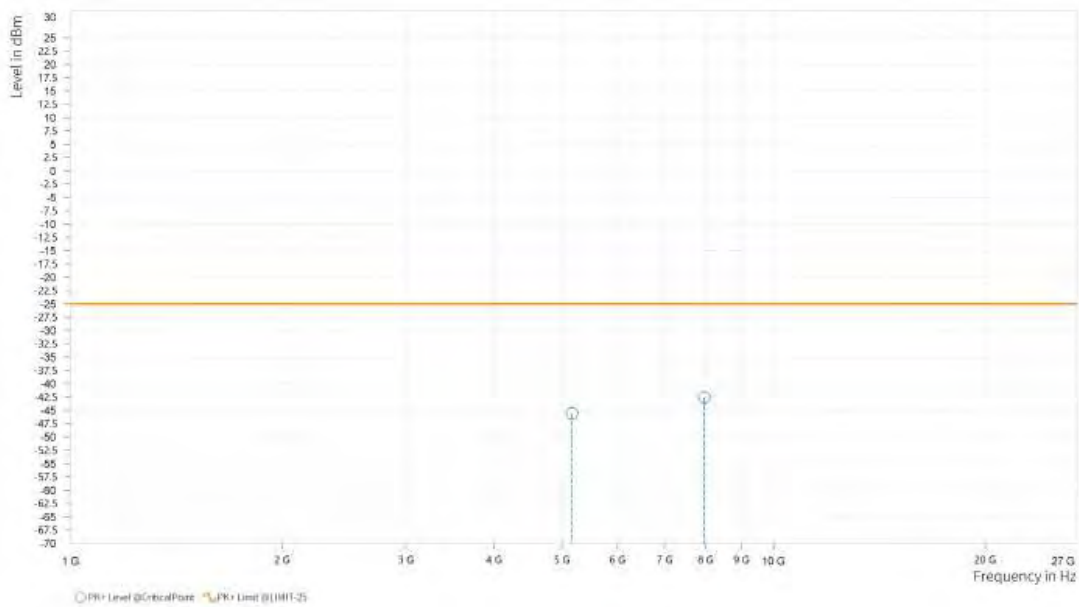




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,167.500	-45.57	-25.00	20.57	26.06	V	1	1
5	7,969.000	-42.61	-25.00	17.61	33.27	V	90.2	2



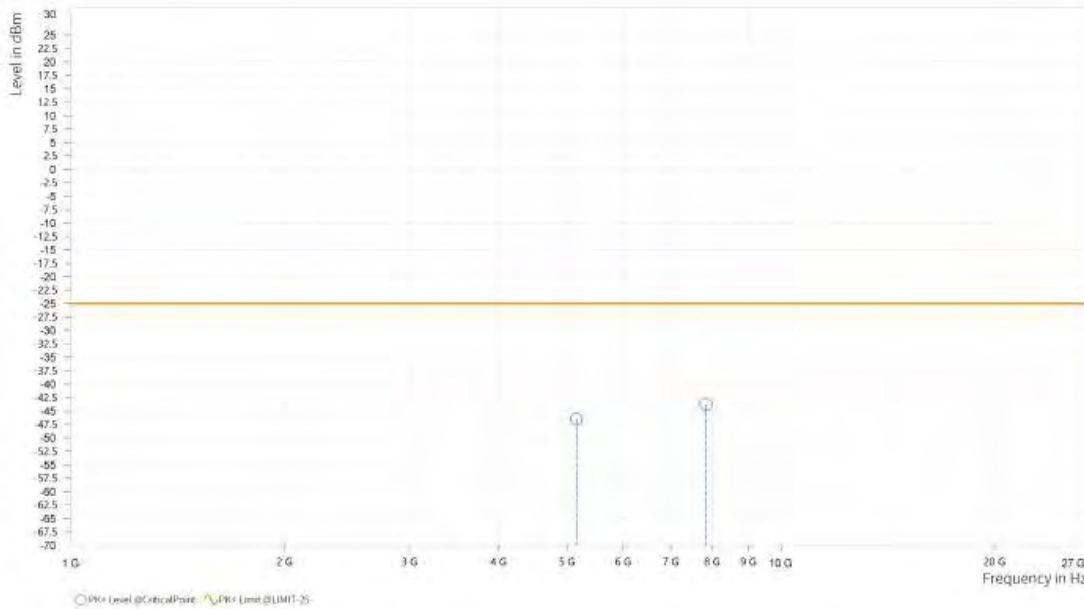


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 30MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,158.000	-46.52	-25.00	21.52	26.22	H	1	1
5	7,848.500	-43.75	-25.00	18.75	32.98	H	359	2

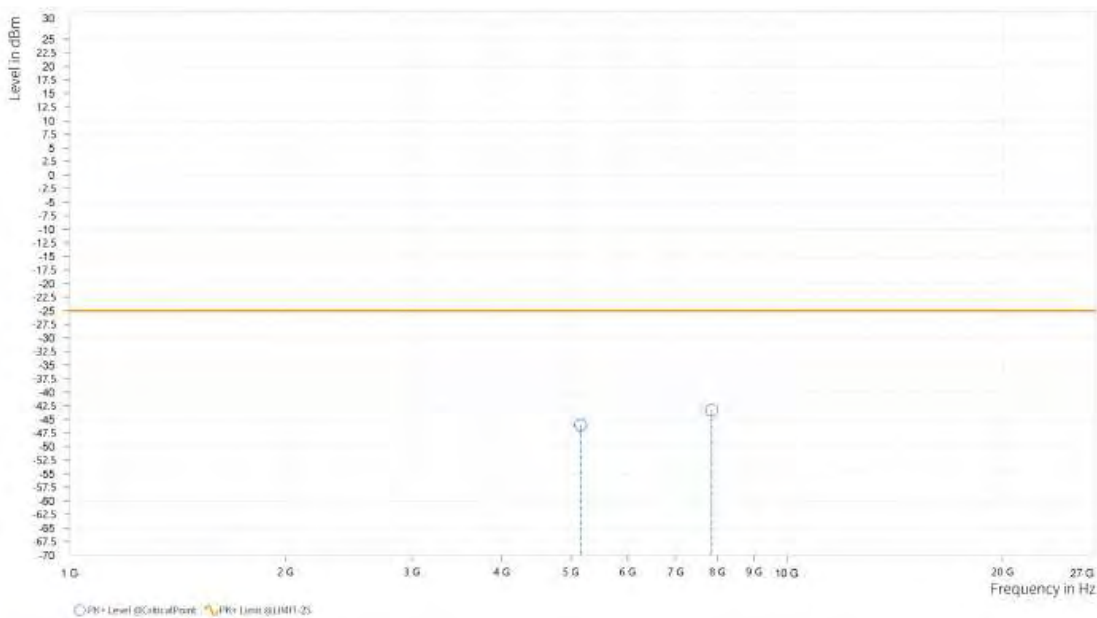




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,158.500	-46.07	-25.00	21.07	26.14	V	1	1
5	7,860.000	-43.29	-25.00	18.29	33.05	V	281.7	1



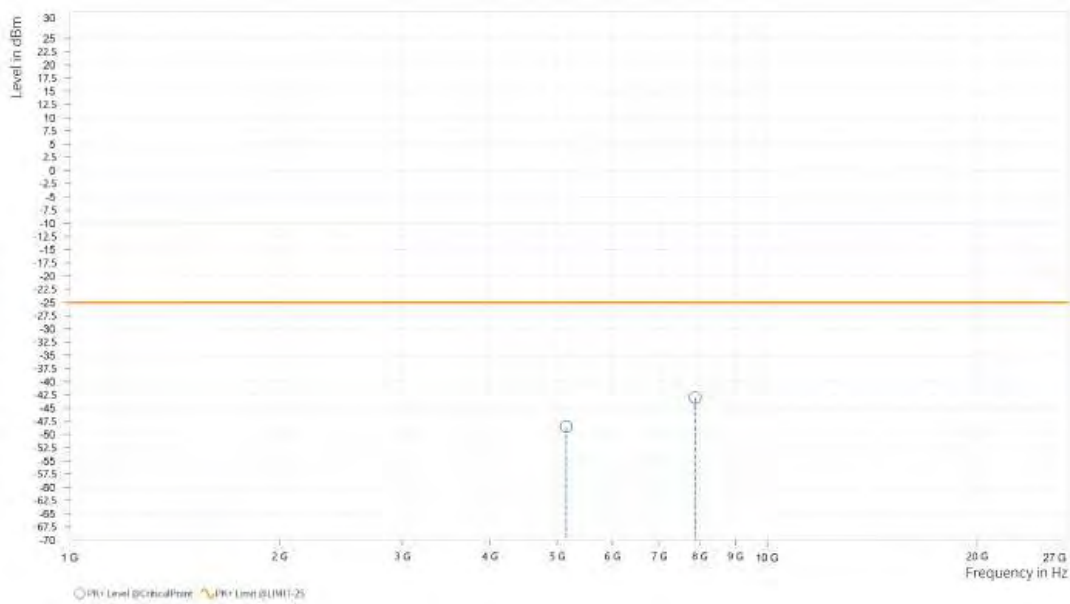


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 40MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,148.000	-48.51	-25.00	23.51	26.23	H	359	1
5	7,883.000	-43.02	-25.00	18.02	33.01	H	268.6	1



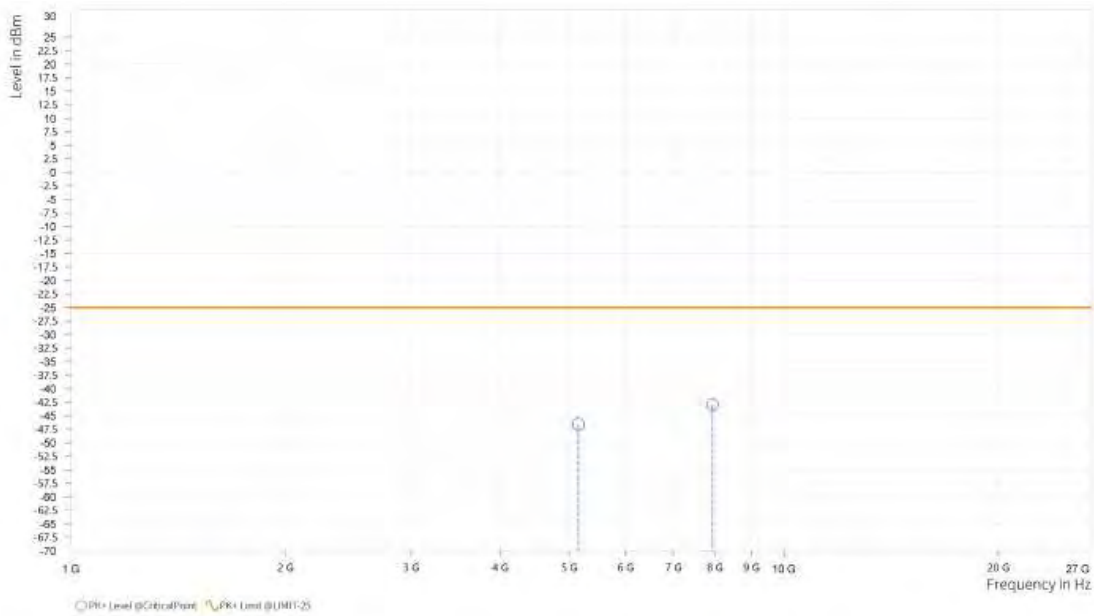




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,148.000	-46.56	-25.00	21.56	26.20	V	195.6	1
5	7,938.500	-42.99	-25.00	17.99	33.18	V	280.5	1



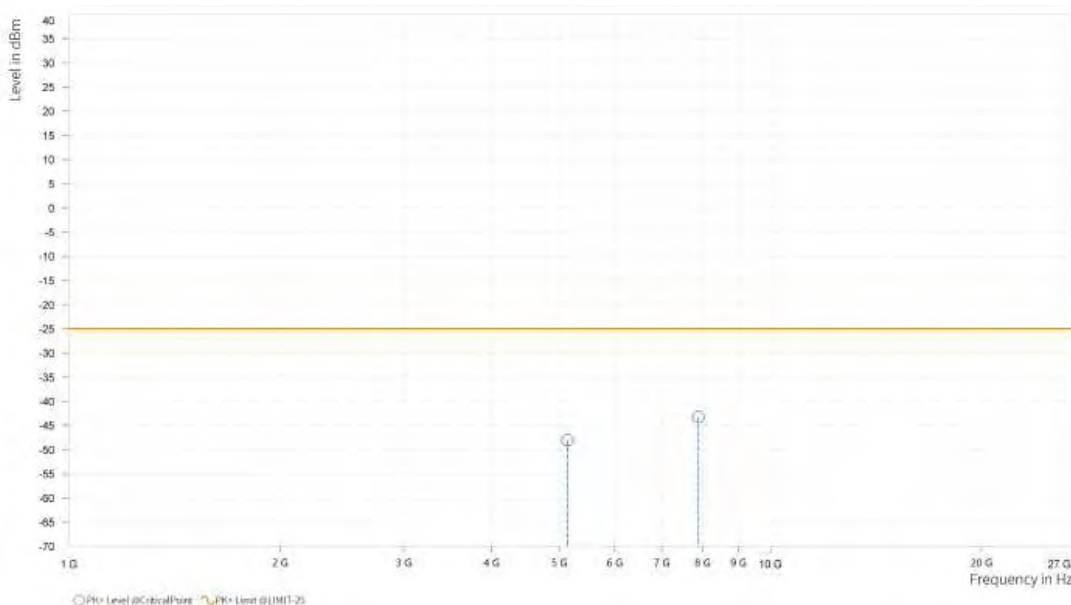


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,138.500	-48.01	-25.00	23.01	26.21	H	359	2
5	7,893.000	-43.22	-25.00	18.22	33.01	H	359	1

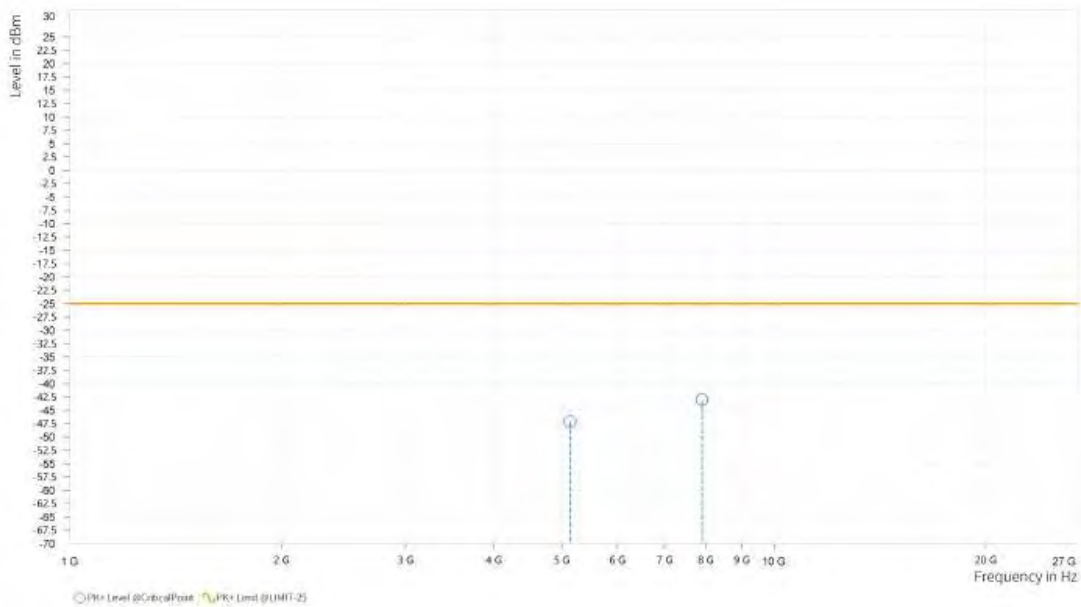




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,138.500	-47.15	-25.00	22.15	26.21	V	359.1	1
5	7,906.000	-43.01	-25.00	18.01	33.08	V	359	2



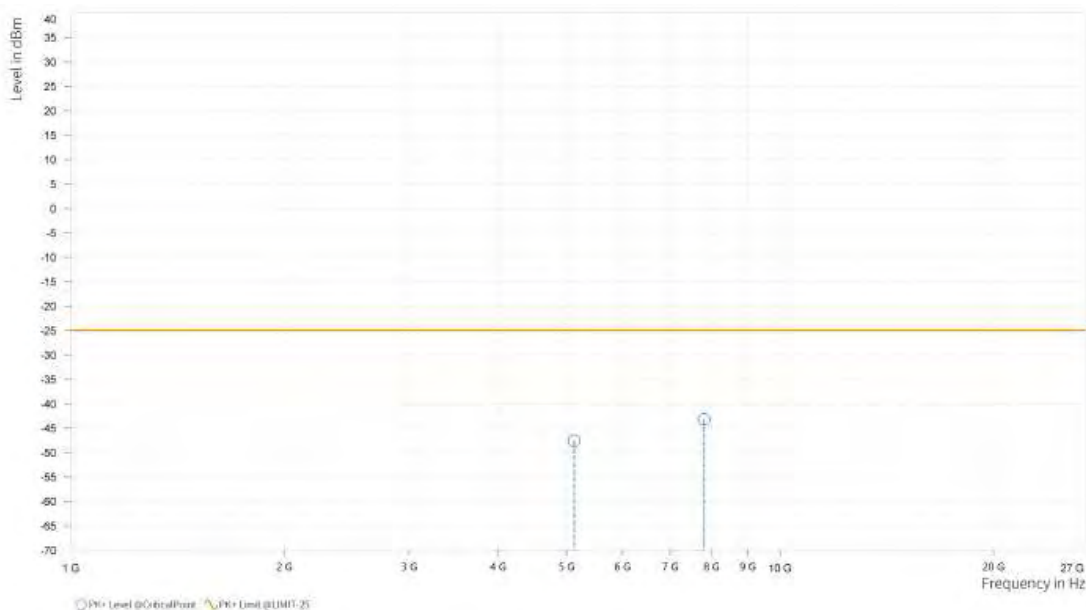


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 60MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,128.000	-47.54	-25.00	22.54	26.19	H	359	2
5	7,813.000	-43.18	-25.00	18.18	32.94	H	0.9	2

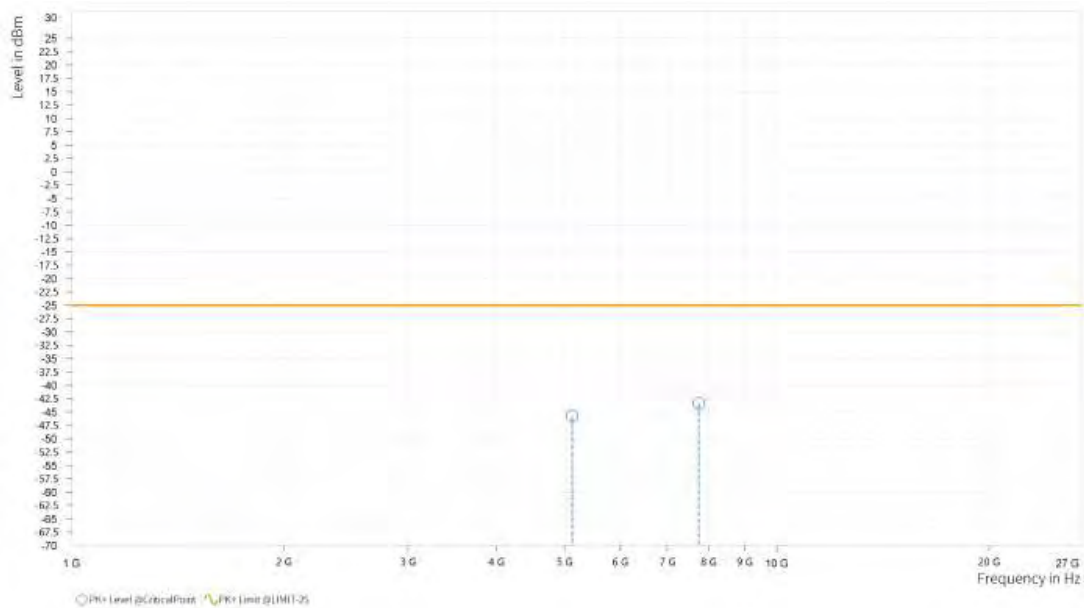




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,128.000	-45.74	-25.00	20.74	26.22	V	1	1
5	7,751.500	-43.34	-25.00	18.34	33.03	V	0.9	2



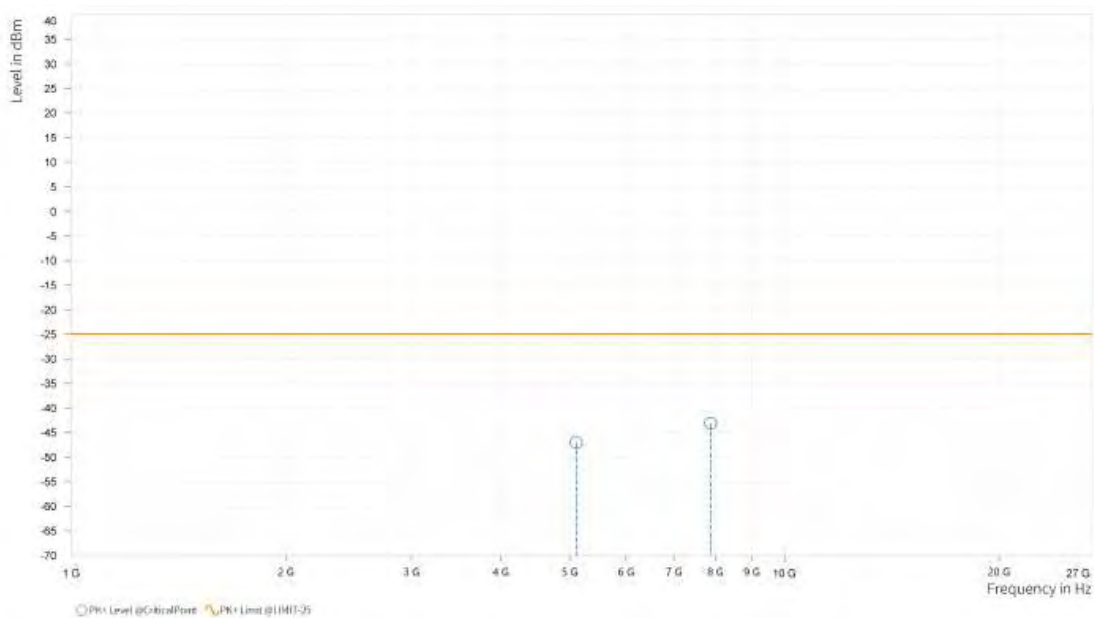


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 80MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,108.500	-47.07	-25.00	22.07	26.13	H	359.1	1
5	7,884.000	-43.14	-25.00	18.14	33.01	H	77.1	2

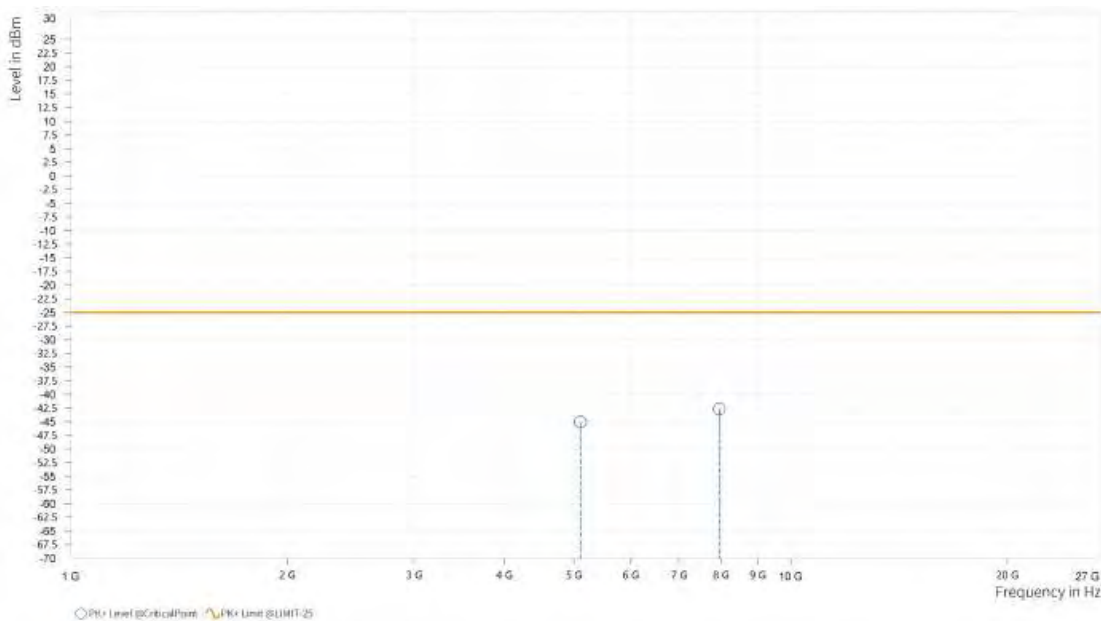




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,108.000	-45.06	-25.00	20.06	26.20	V	197.9	1
5	7,958.000	-42.69	-25.00	17.69	33.24	V	282.8	1



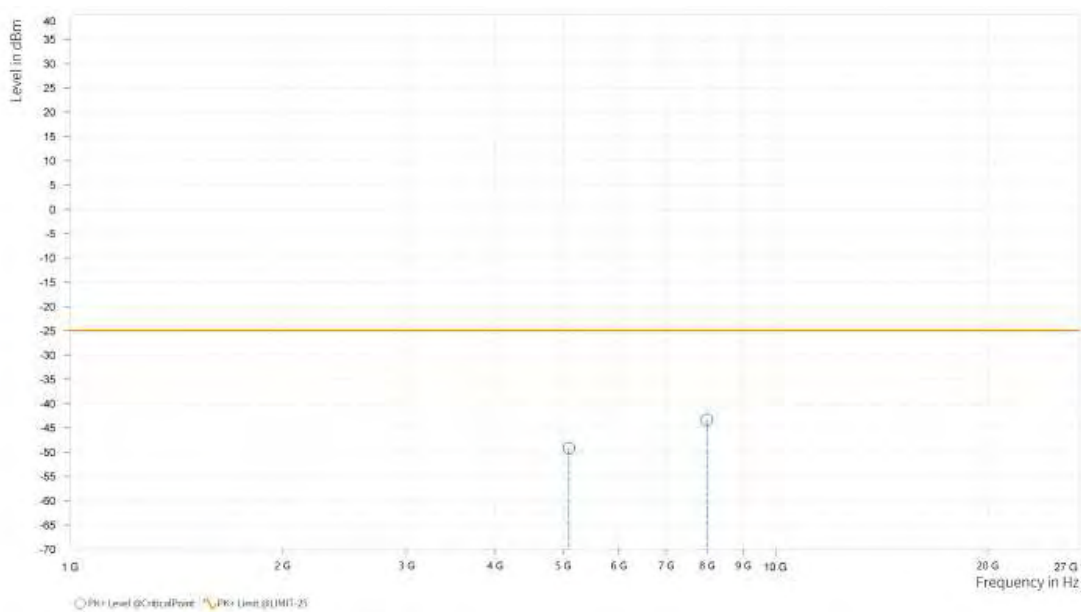


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 90MHz / QPSK**

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,098.000	-49.20	-25.00	24.20	26.04	H	0.9	2
5	7,991.000	-43.37	-25.00	18.37	33.10	H	0.9	2



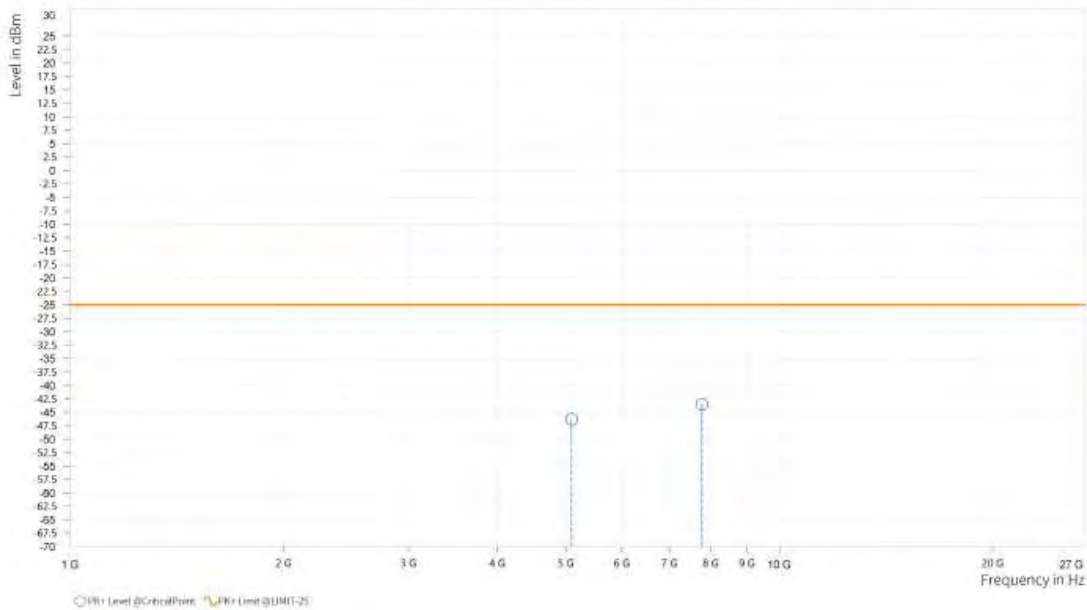




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,098.000	-46.30	-25.00	21.30	26.14	V	184.7	1
5	7,779.500	-43.51	-25.00	18.51	33.03	V	269.7	1





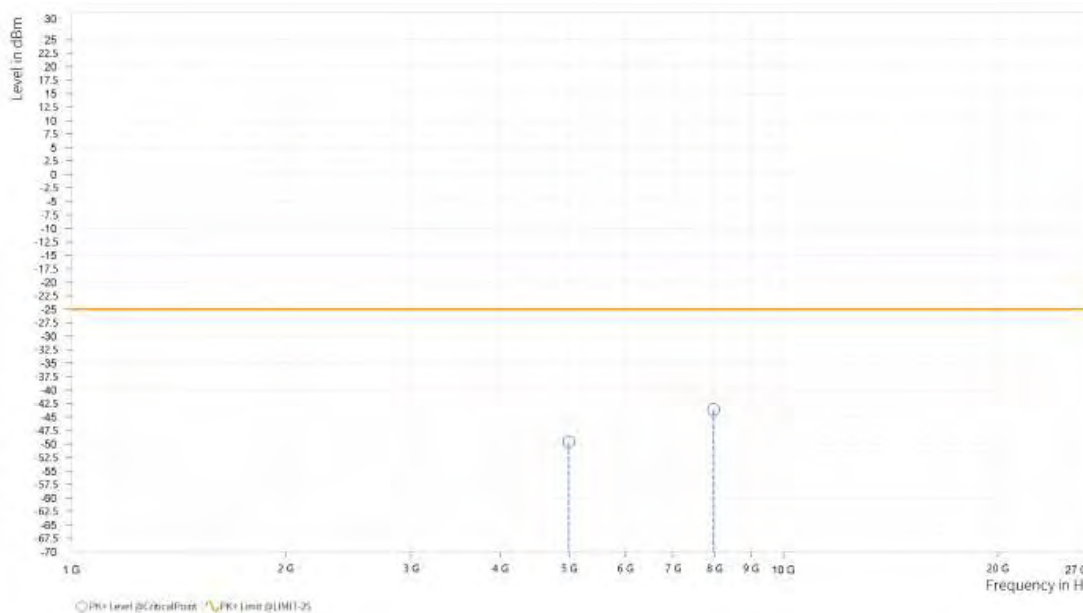
Test Report No.: W7L-P23100014RF12

CHANNEL BANDWIDTH: 100MHz / QPSK

CH 509202:

MODE	TX channel 509202	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,994.000	-49.61	-25.00	24.61	25.47	H	359.1	1
5	7,976.500	-43.59	-25.00	18.59	33.00	H	284.1	1

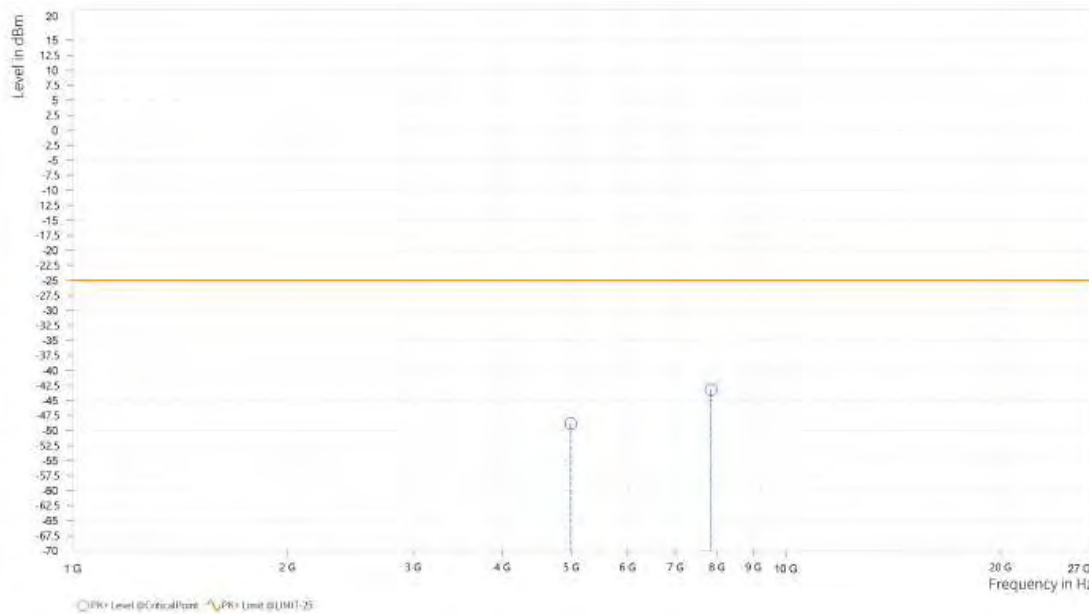




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 509202	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	4,994,000	-48.85	-25.00	23.85	25.30	V	175	2
5	7,852,500	-43.18	-25.00	18.18	33.06	V	1	1



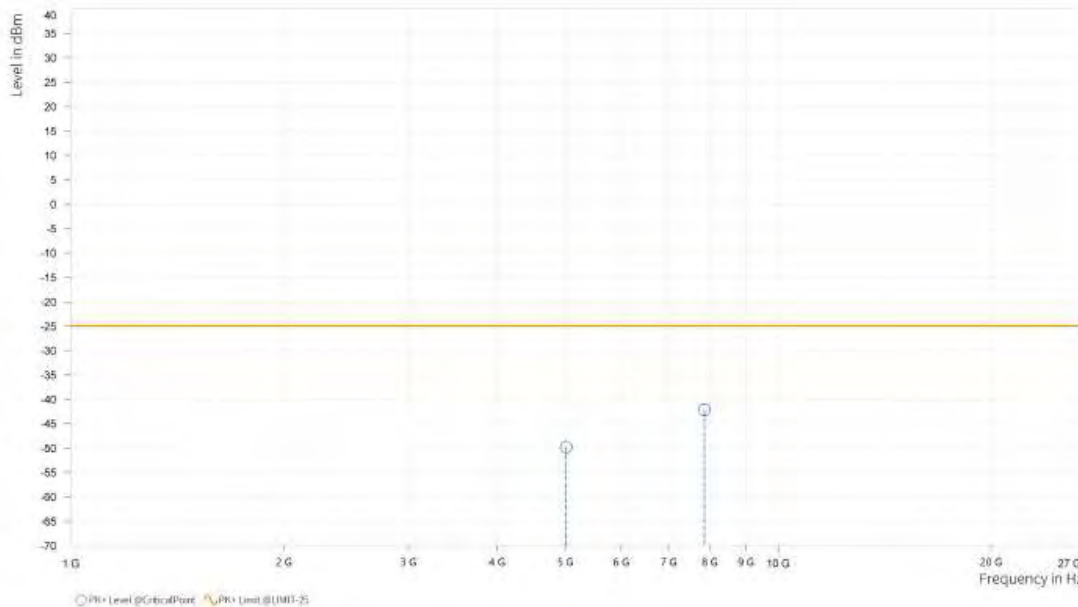


Test Report No.: W7L-P23100014RF12

CH 518598:

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,016.500	-49.80	-25.00	24.80	25.63	H	359.1	1
5	7,867.500	-42.18	-25.00	17.18	32.99	H	1	2

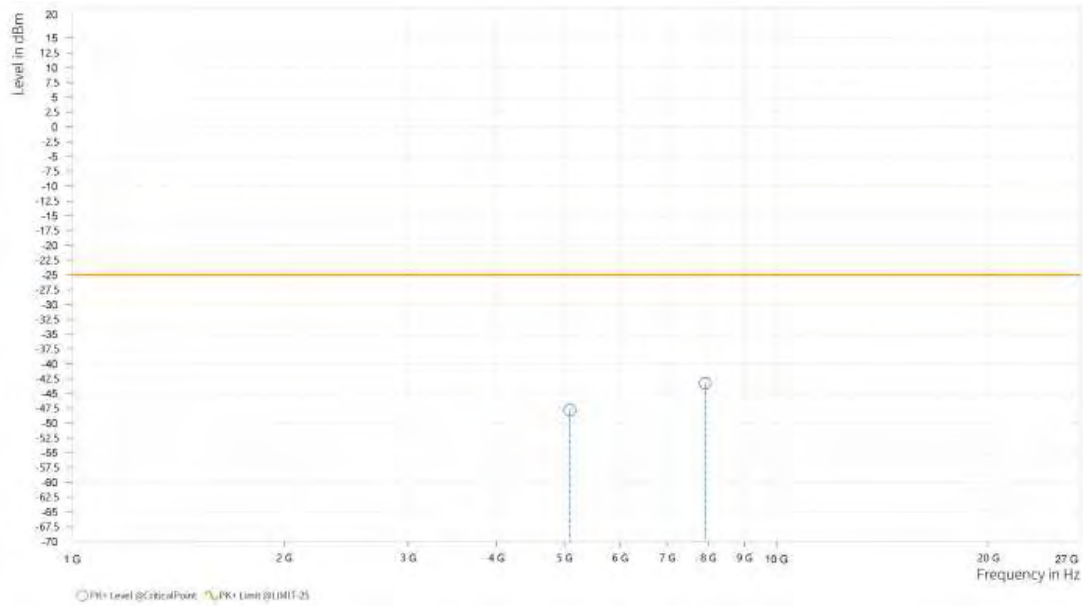




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 518598	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,088.000	-47.83	-25.00	22.83	25.99	V	184.8	1
5	7,926.500	-43.30	-25.00	18.30	33.15	V	359	1



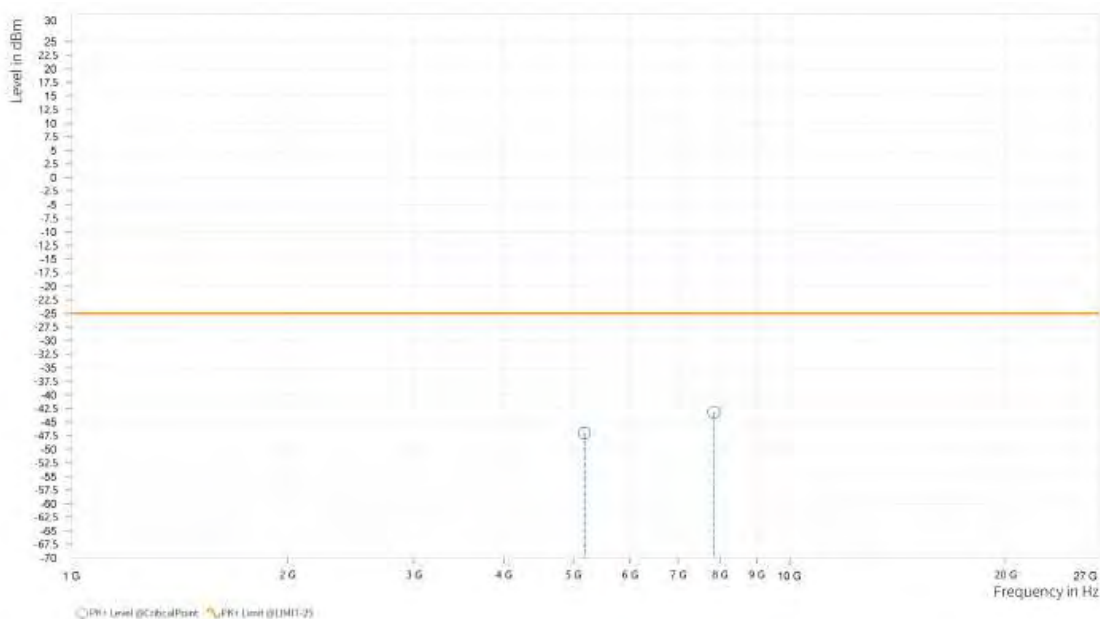


Test Report No.: W7L-P23100014RF12

CH 528000:

<b>MODE</b>	TX channel 528000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,182.000	-47.00	-25.00	22.00	26.11	H	199.2	1
5	7,840.500	-43.18	-25.00	18.18	32.97	H	1	1

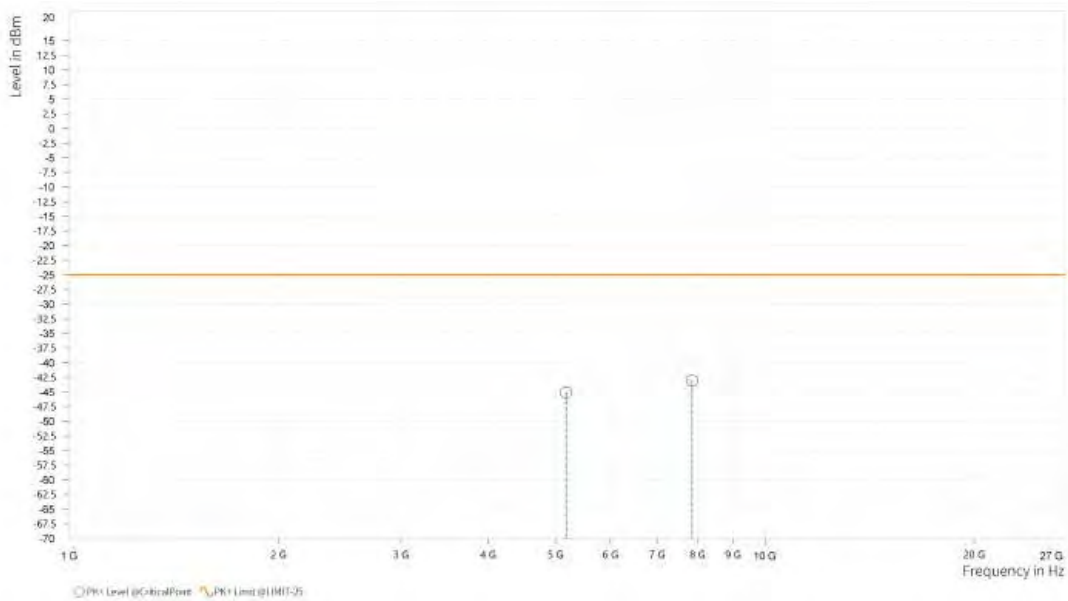




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 528000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,182.000	-45.08	-25.00	20.08	25.90	V	173.9	2
5	7,857.500	-43.09	-25.00	18.09	33.05	V	270.9	1





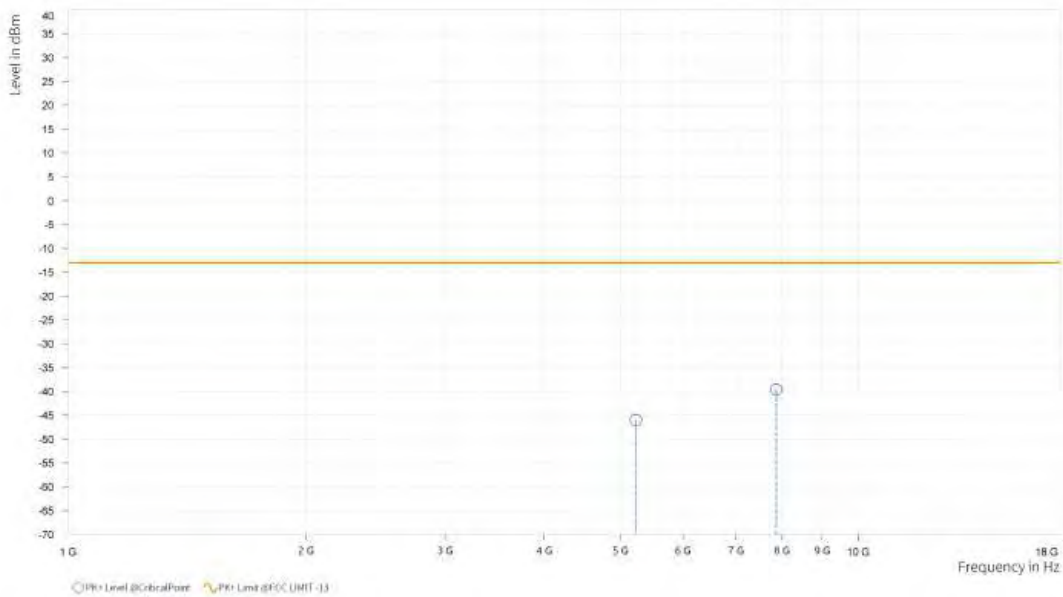
Test Report No.: W7L-P23100014RF12

N66

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 349000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,228.500	-46.02	-13.00	33.02	26.07	H	215.9	1
5	7,874.000	-39.58	-13.00	26.58	33.00	H	1	1



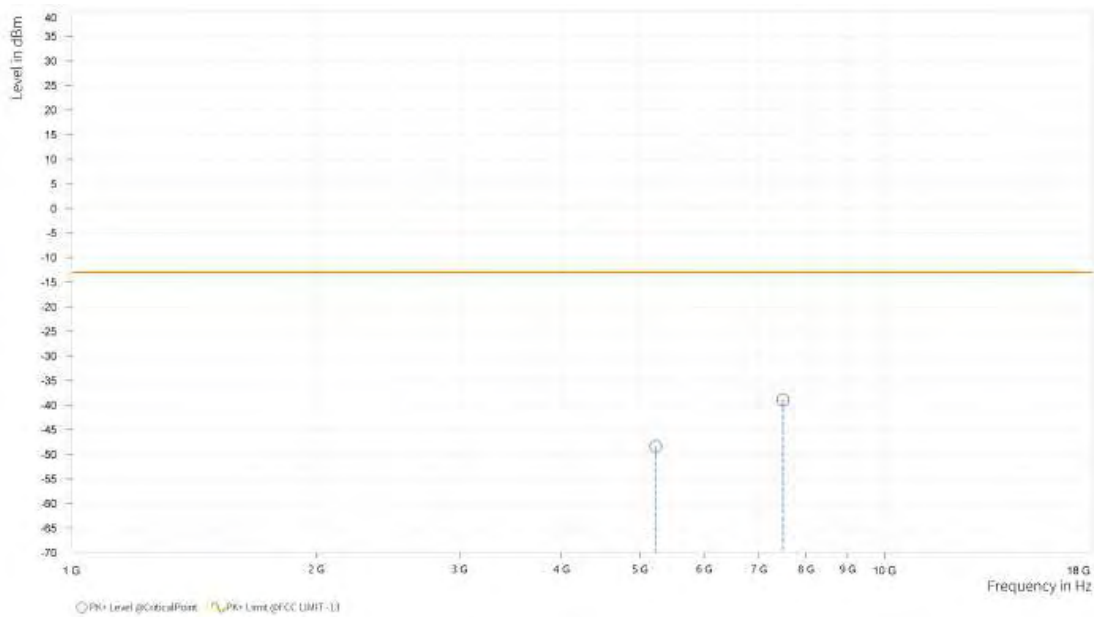




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,229.000	-48.44	-13.00	35.44	25.79	V	200.4	1
5	7,497.500	-39.03	-13.00	26.03	31.88	V	359.1	1



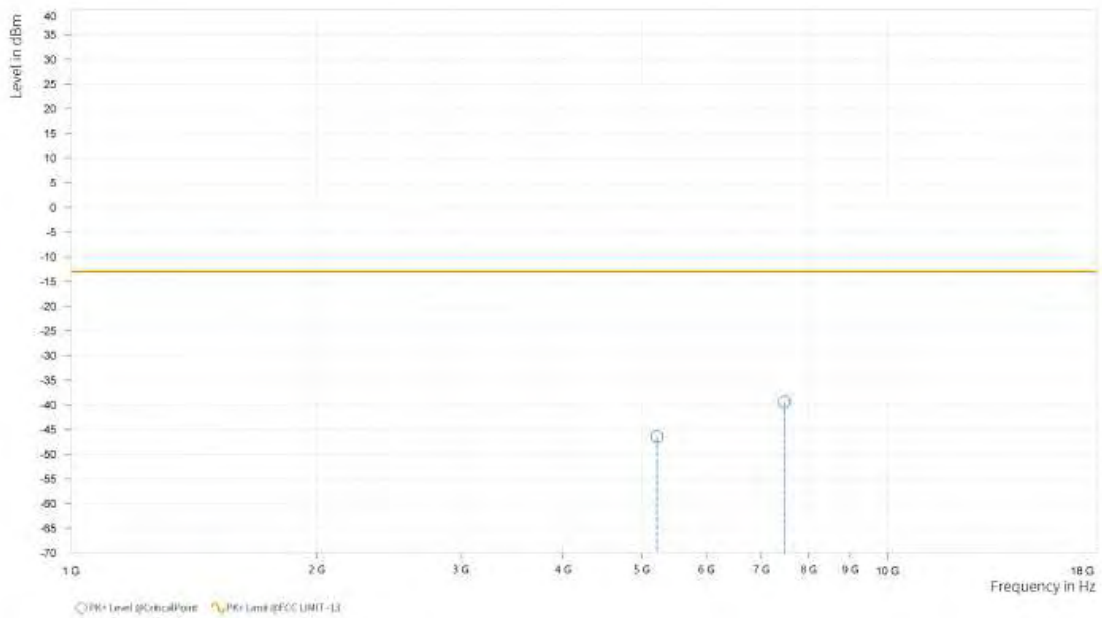


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 10MHz / QPSK**

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,221.000	-46.44	-13.00	33.44	26.02	H	215.9	1
5	7,473.000	-39.42	-13.00	26.42	31.68	H	359.1	1

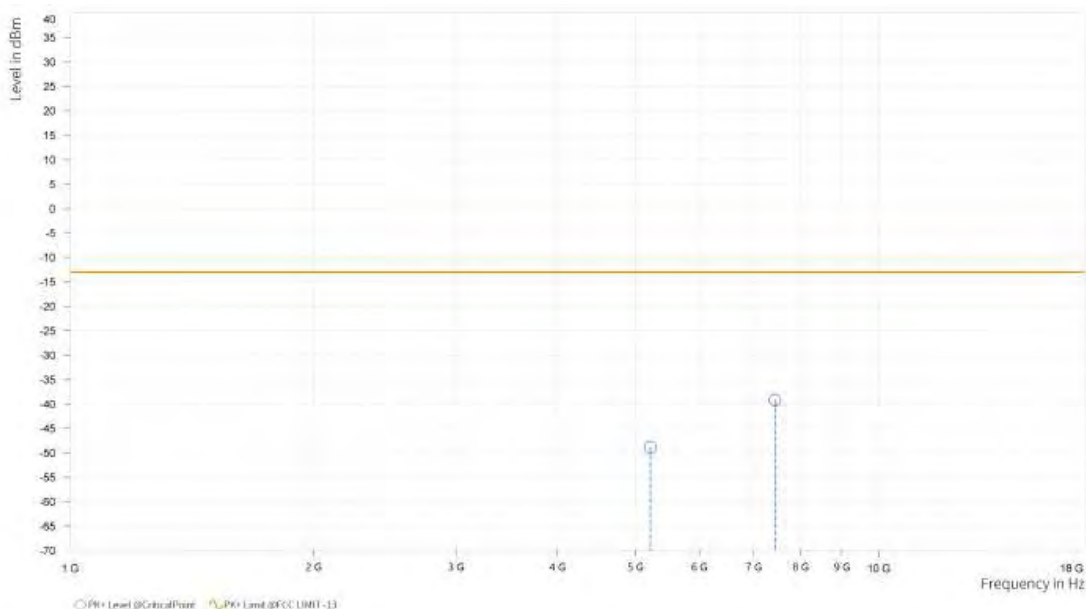




**Test Report No.: W7L-P23100014RF12**

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,221.500	-48.87	-13.00	35.87	25.74	V	145.2	2
5	7,439.000	-39.19	-13.00	26.19	31.74	V	1	1



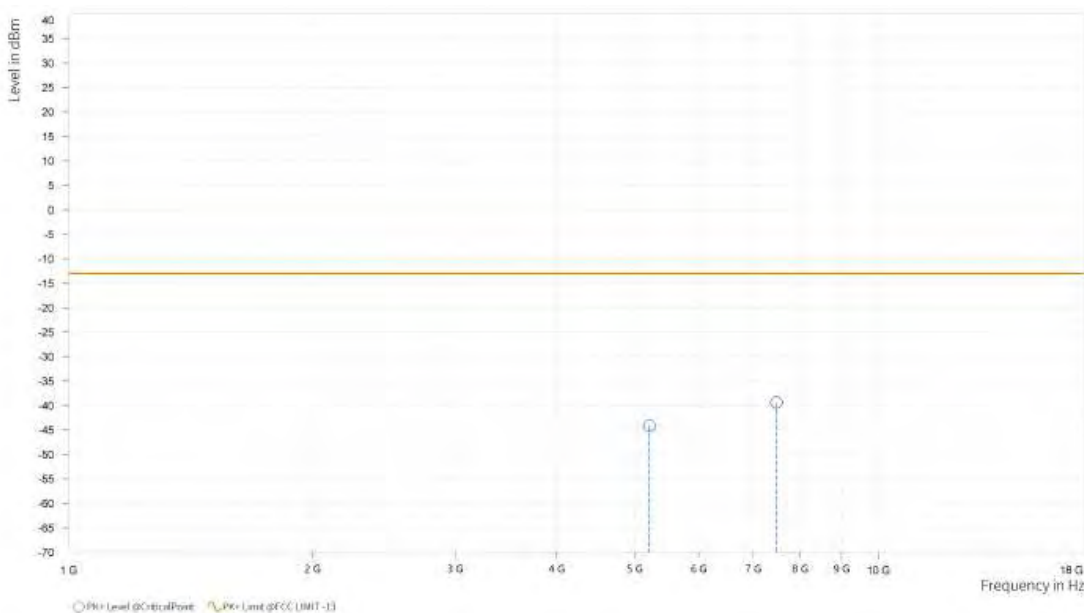


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 15MHz / QPSK**

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,214.000	-44.13	-13.00	31.13	25.99	H	215.9	1
5	7,481.000	-39.40	-13.00	26.40	31.73	H	359	2

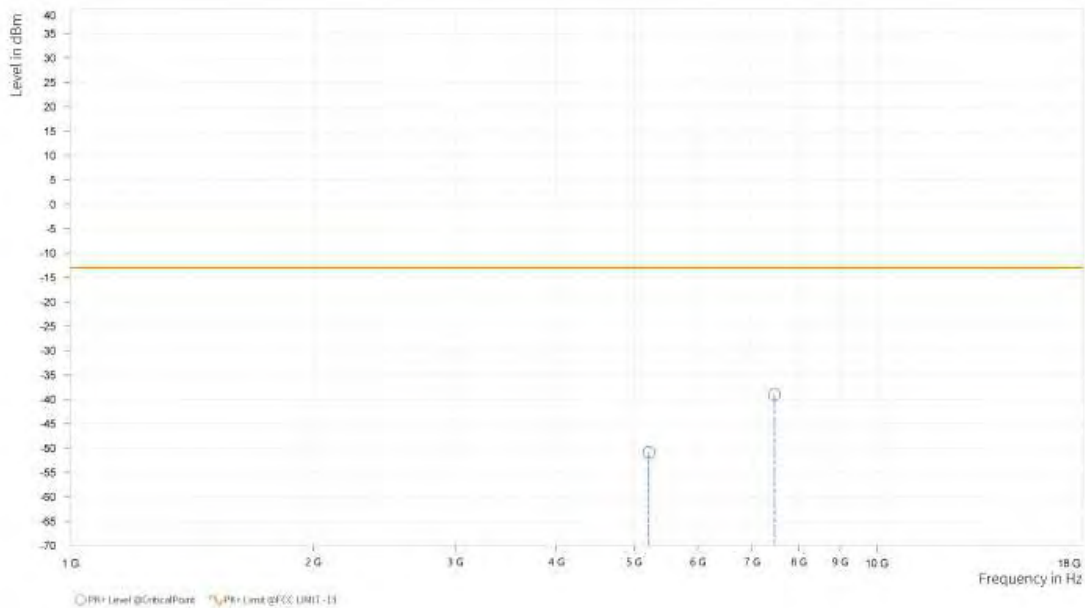




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,214.000	-50.96	-13.00	37.96	25.70	V	129.7	2
5	7,463.500	-39.06	-13.00	26.06	31.73	V	359	1





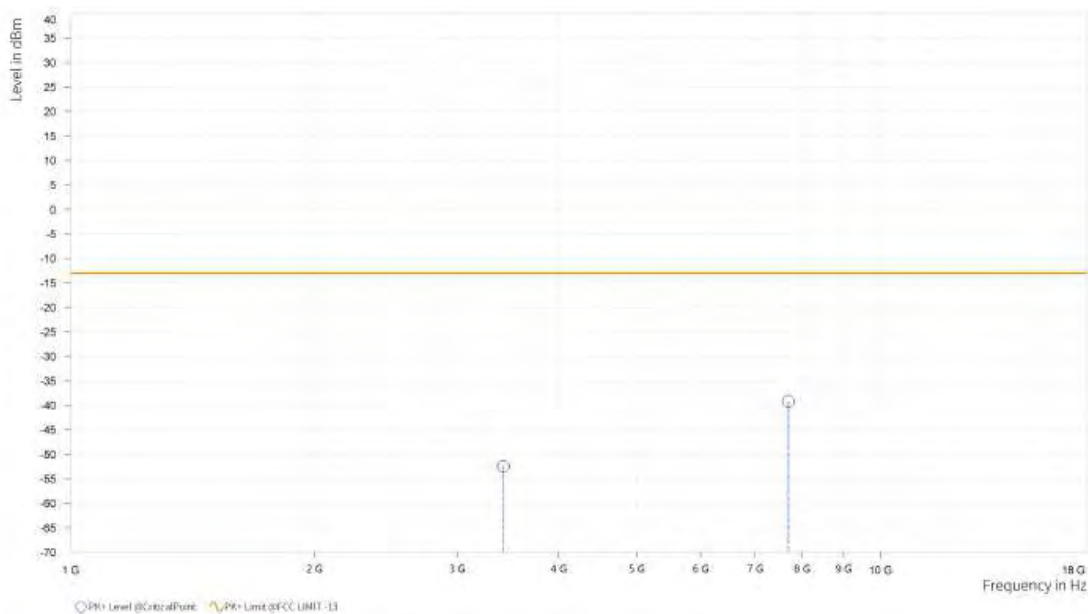
Test Report No.: W7L-P23100014RF12

CHANNEL BANDWIDTH: 20MHz / QPSK

CH 344000

MODE	TX channel 344000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,421.000	-52.48	-13.00	39.48	21.94	H	0.9	2
5	7,698.500	-39.20	-13.00	26.20	32.73	H	0.9	2

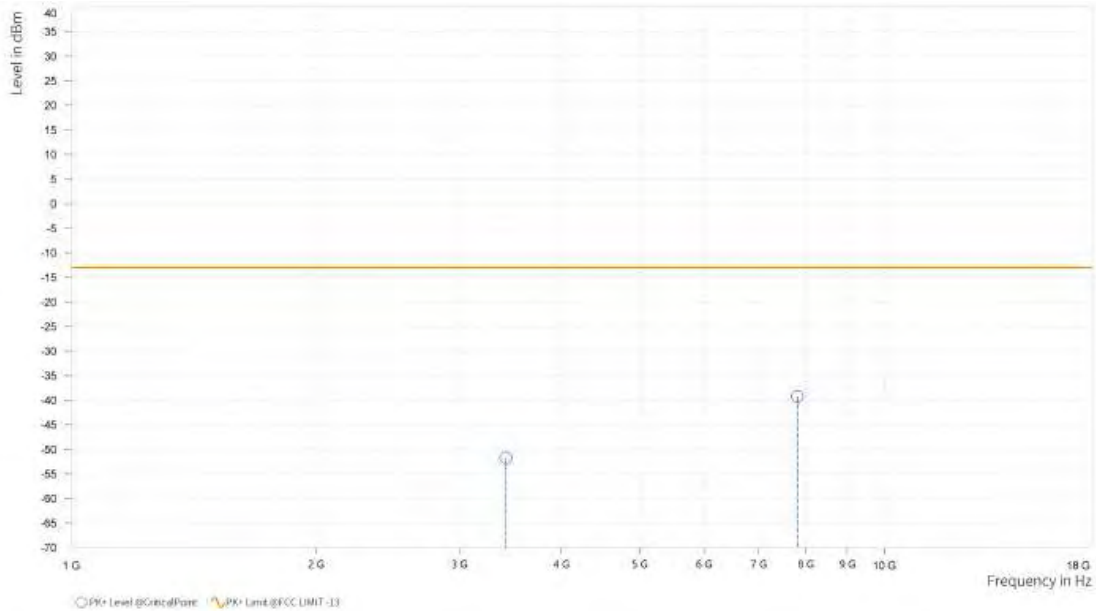




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 344000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,421.000	-51.70	-13.00	38.70	22.01	V	215.9	1
5	7,817.500	-39.27	-13.00	26.27	33.07	V	1	1



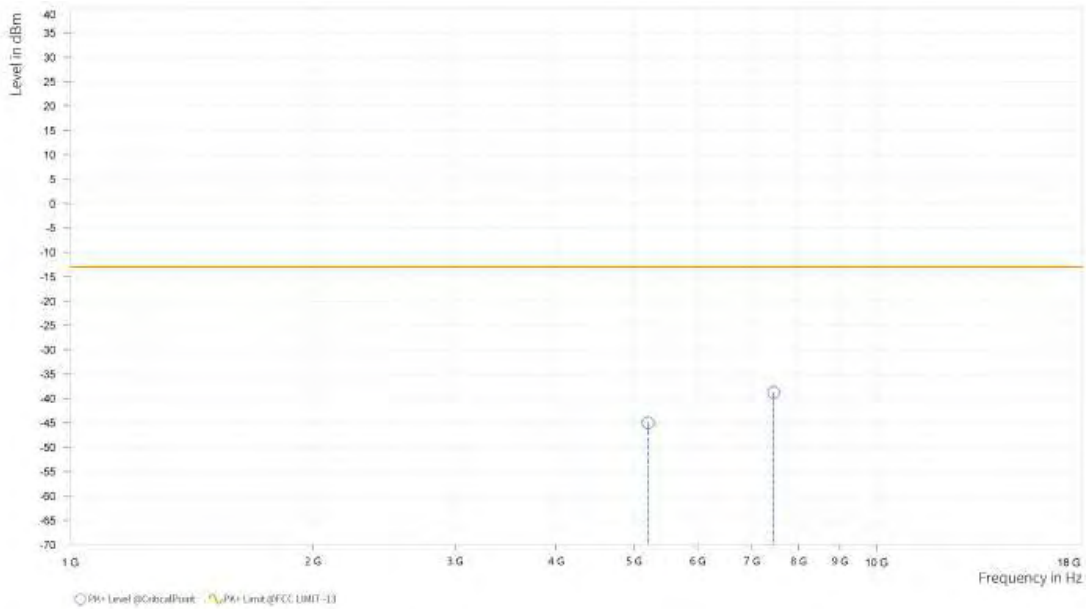


Test Report No.: W7L-P23100014RF12

CH 349000

MODE	TX channel 349000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,206.500	-44.97	-13.00	31.97	26.00	H	217.1	1
5	7,450.000	-38.79	-13.00	25.79	31.61	H	1	1



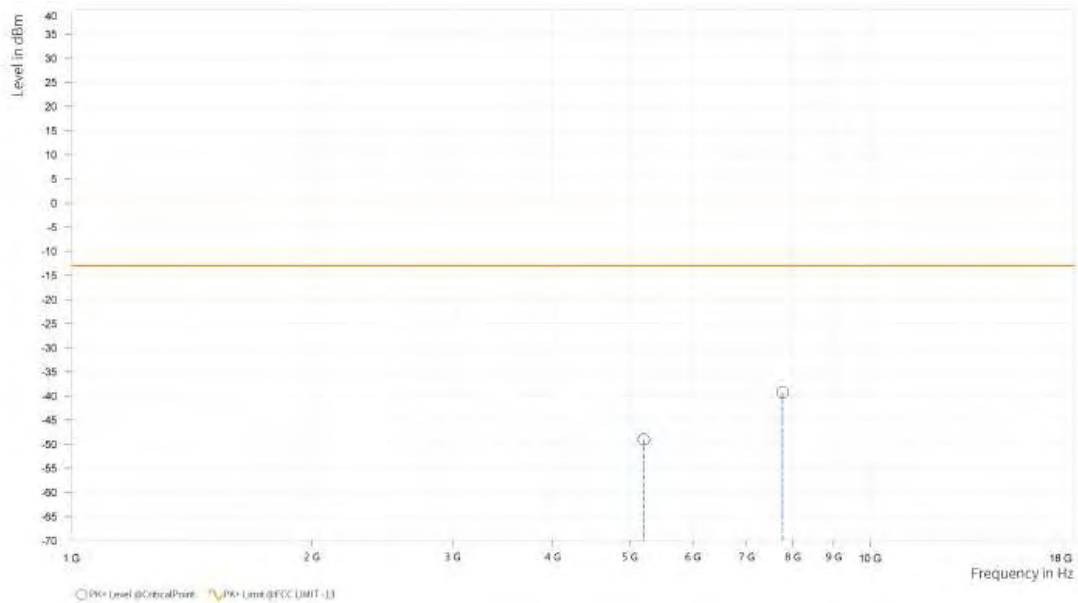




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,207.000	-49.02	-13.00	36.02	25.70	V	129.8	2
5	7,767.500	-39.28	-13.00	26.28	33.02	V	359	2



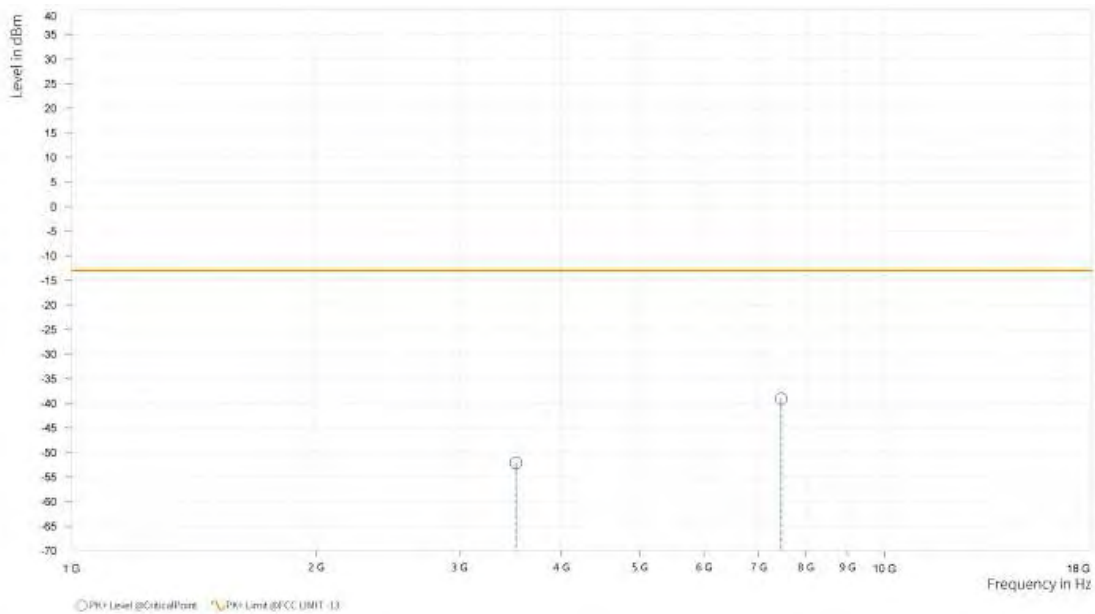


Test Report No.: W7L-P23100014RF12

CH 354000

<b>MODE</b>	TX channel 354000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,521.000	-52.16	-13.00	39.16	21.80	H	359	2
5	7,457.000	-39.13	-13.00	26.13	31.61	H	0.9	2

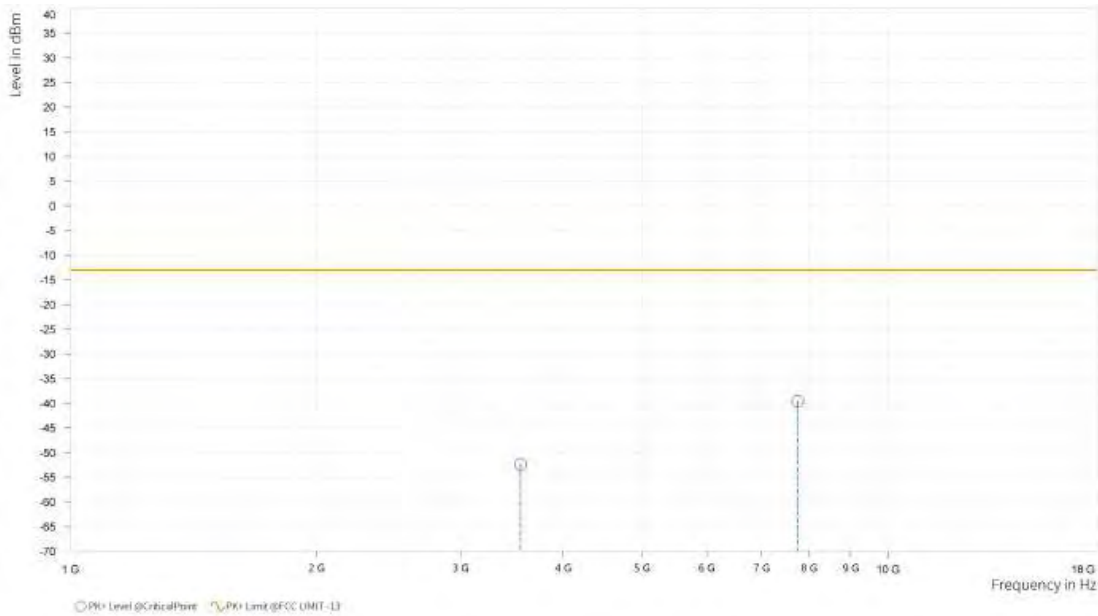




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 354000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,552.000	-52.39	-13.00	39.39	22.02	V	159.6	2
5	7,749.000	-39.58	-13.00	26.58	33.03	V	1	1



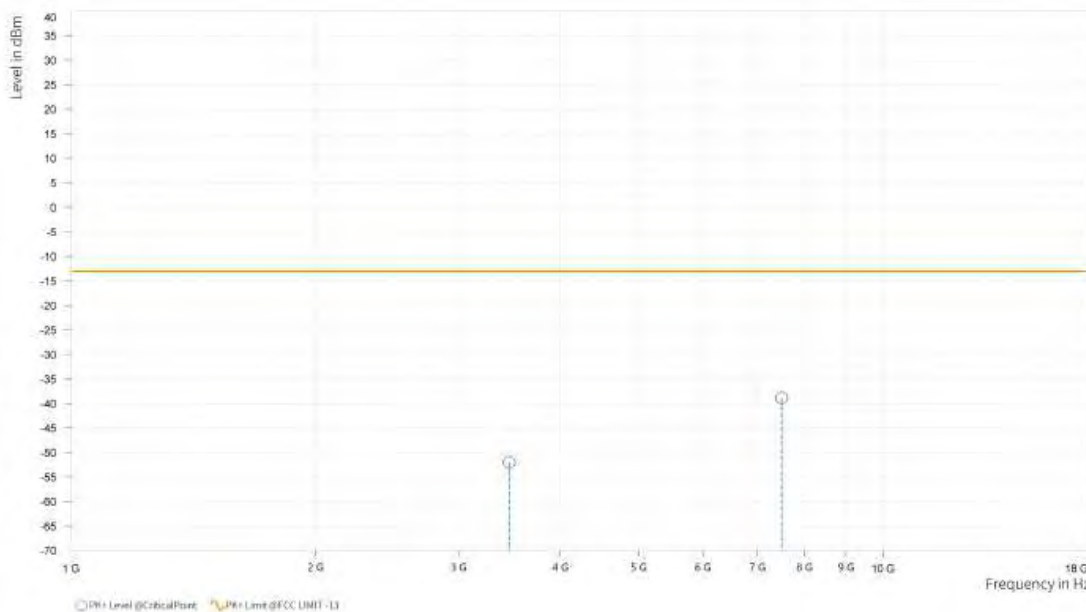


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 30MHz / QPSK**

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,463.500	-52.00	-13.00	39.00	21.84	H	1	2
5	7,500.000	-38.82	-13.00	25.82	31.85	H	1	1

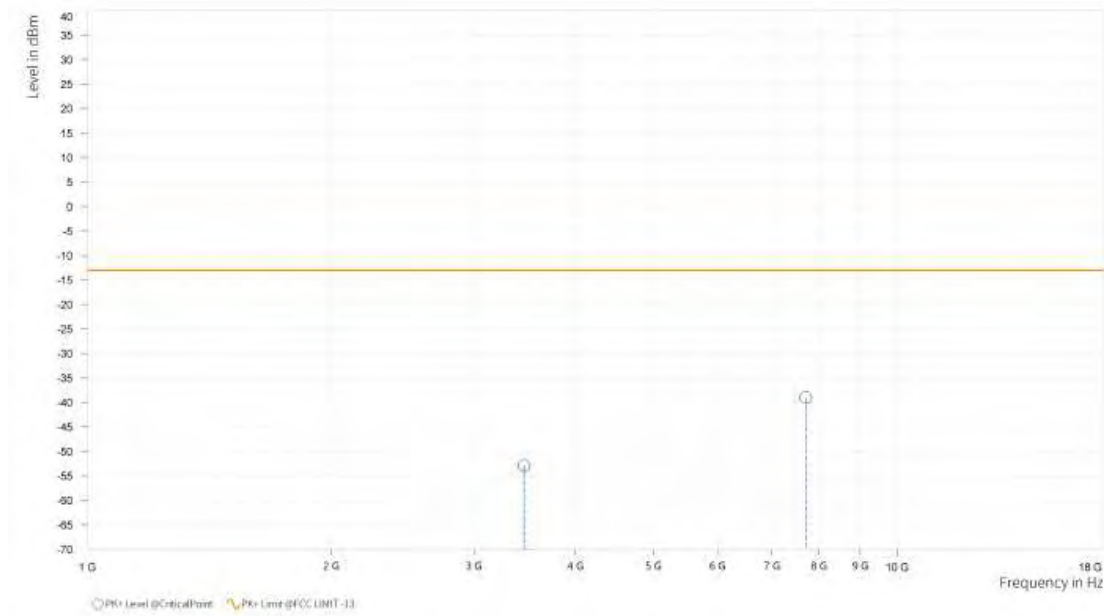




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,461.500	-52.94	-13.00	39.94	21.88	V	202.8	1
5	7,709.000	-39.02	-13.00	26.02	32.92	V	59.3	2



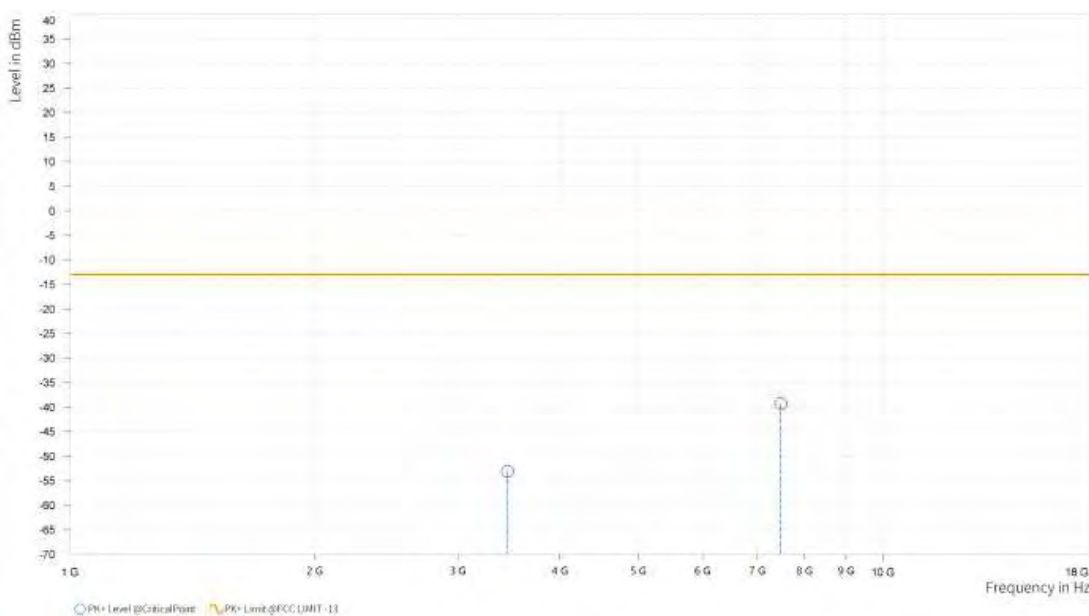


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 40MHz / QPSK**

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,453.000	-53.09	-13.00	40.09	21.85	H	214.7	1
5	7,487.000	-39.33	-13.00	26.33	31.77	H	-1	1

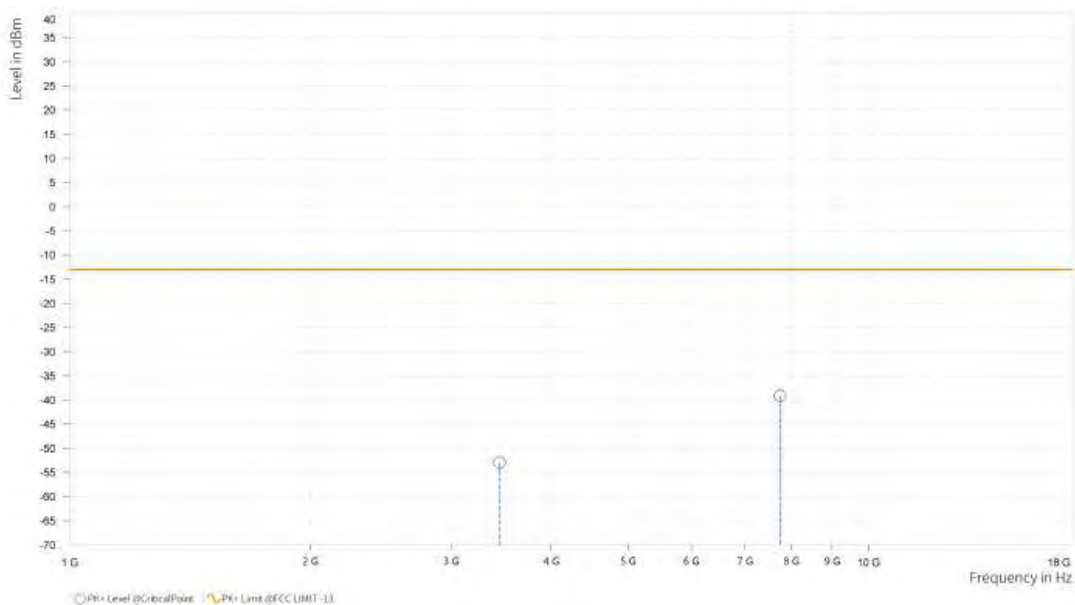




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 349000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,451.000	-52.98	-13.00	39.98	21.92	V	200,4	1
5	7,747.000	-39.15	-13.00	26.15	33.03	V	0.9	2





Test Report No.: W7L-P23100014RF12

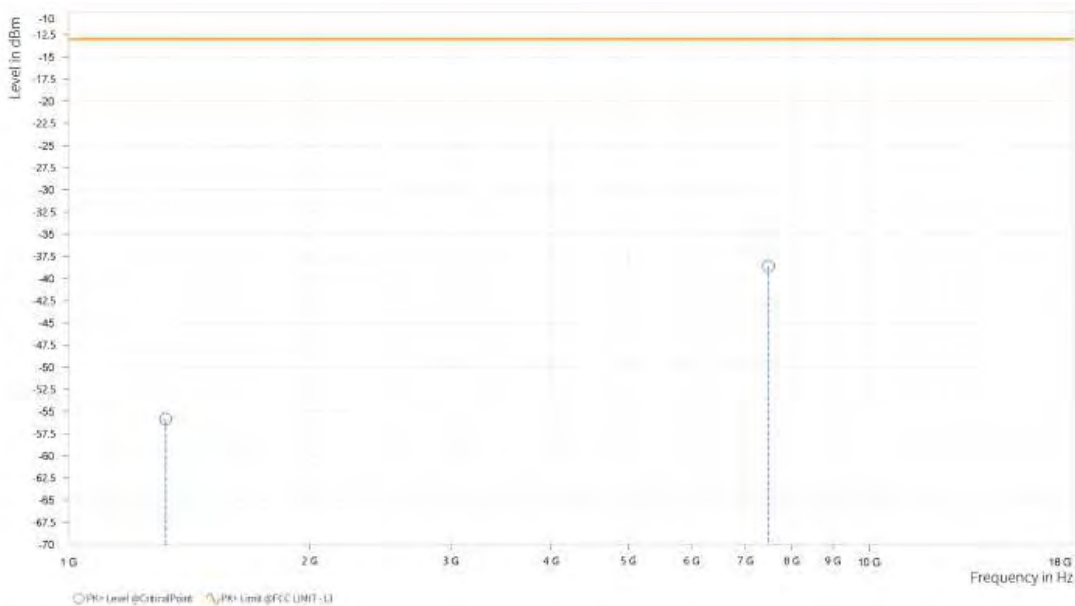
N71

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 133100:

MODE	TX channel 133100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,321.500	-55.81	-13.00	42.81	14.27	H	0.9	2
5	7,481.000	-38.61	-13.00	25.61	31.73	H	359	1



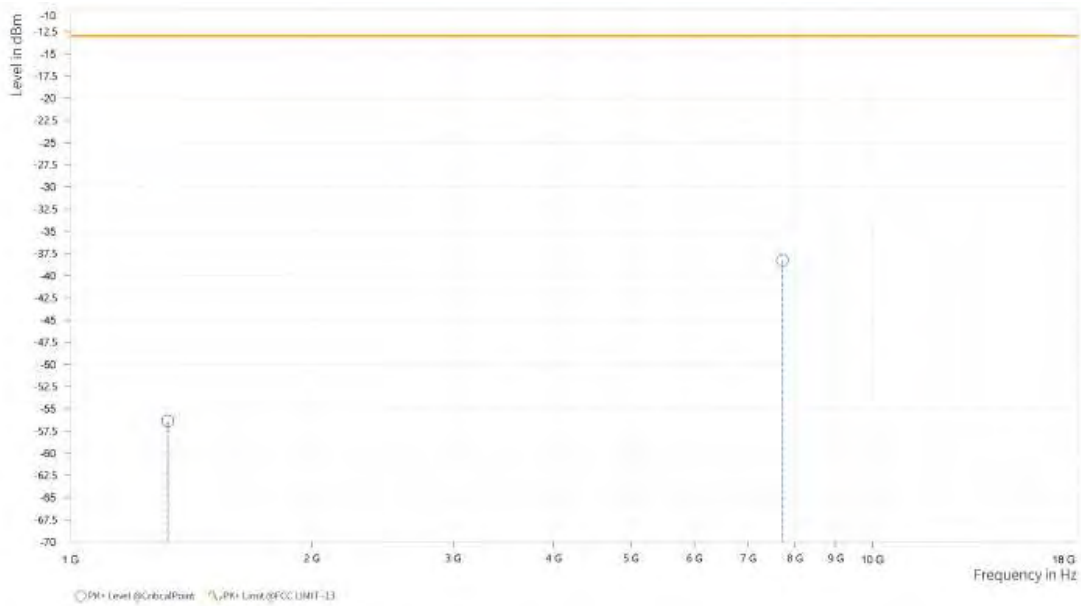




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 133100	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,322.500	-56.39	-13.00	43.39	13.96	V	1	1
5	7,719.500	-38.28	-13.00	25.28	32.97	V	359	1



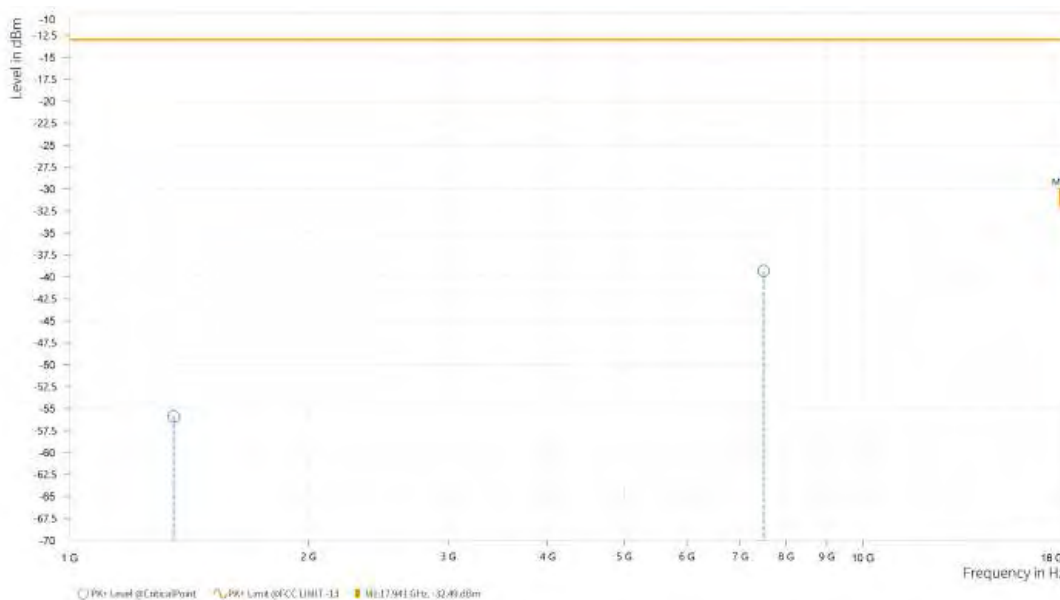


Test Report No.: W7L-P23100014RF12

CH 136100:

<b>MODE</b>	TX channel 136100	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,353.000	-55.91	-13.00	42.91	14.18	H	359	2
5	7,496.500	-39.31	-13.00	26.31	31.83	H	87.8	2

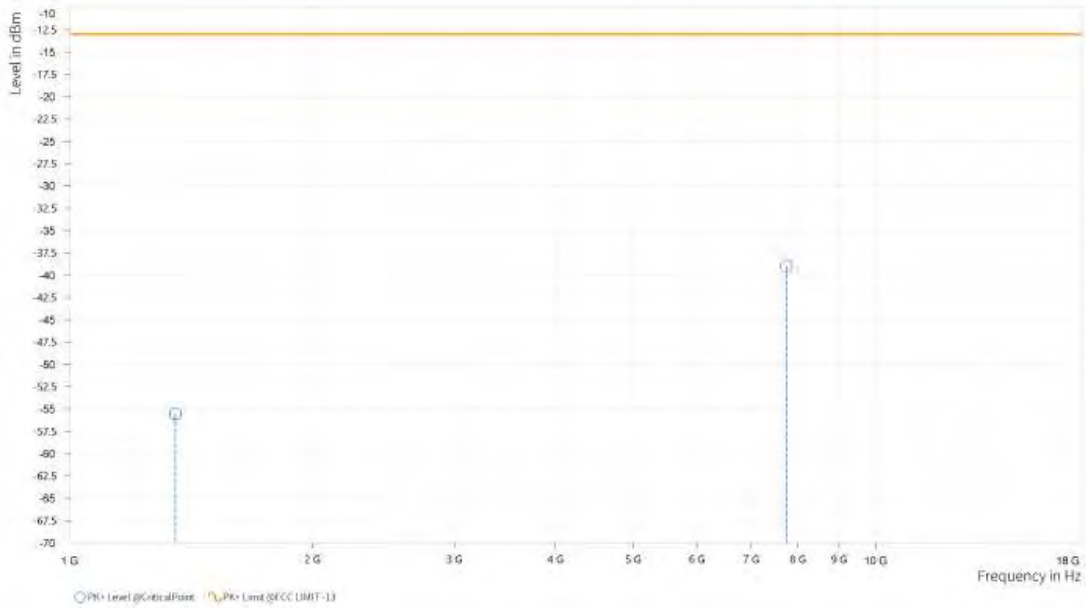




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 136100	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,352.500	-55.54	-13.00	42.54	13.52	V	65.3	1
5	7,745.500	-38.98	-13.00	25.98	33.03	V	1	1



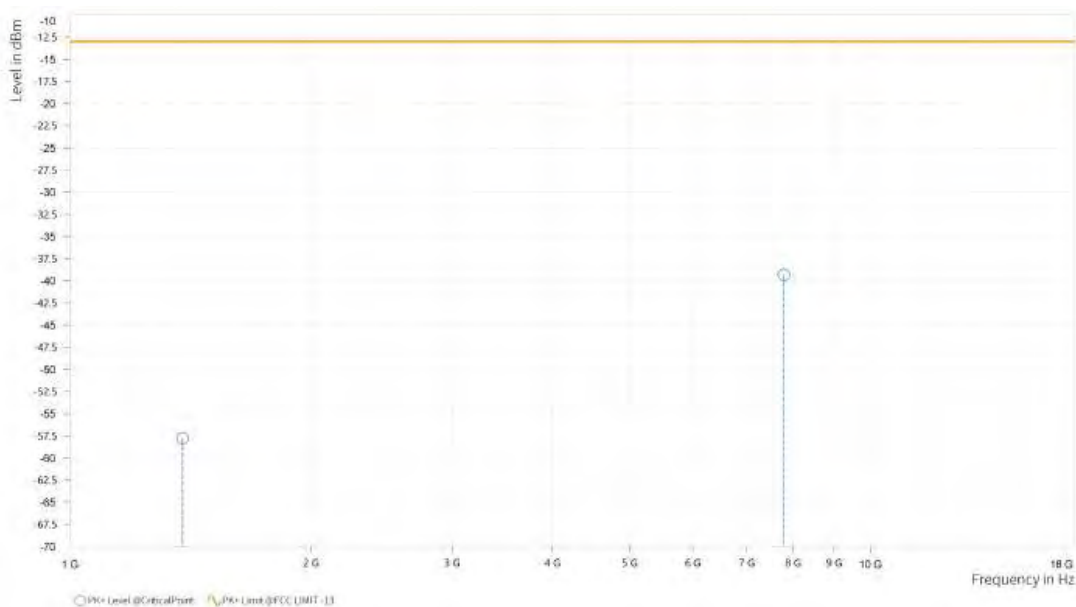


Test Report No.: W7L-P23100014RF12

CH 139100:

<b>MODE</b>	TX channel 139100	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,382.000	-57.77	-13.00	44.77	13.74	H	0.9	2
5	7,793.000	-39.31	-13.00	26.31	32.90	H	359	2

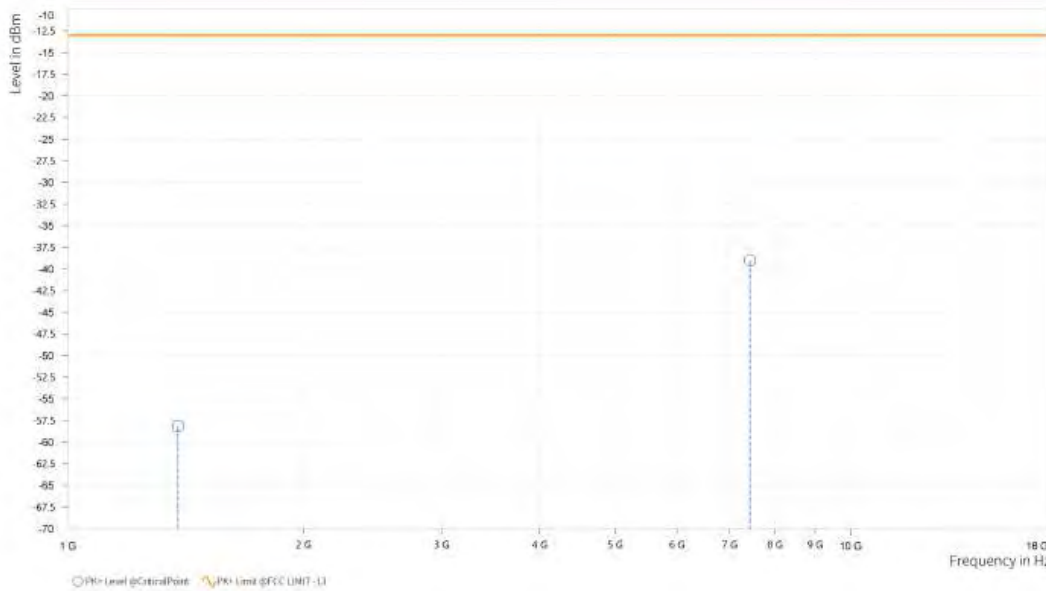




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 139100	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,382.000	-58.13	-13.00	45.13	13.21	V	359	1
5	7,436.000	-38.99	-13.00	25.99	31.74	V	85.4	2



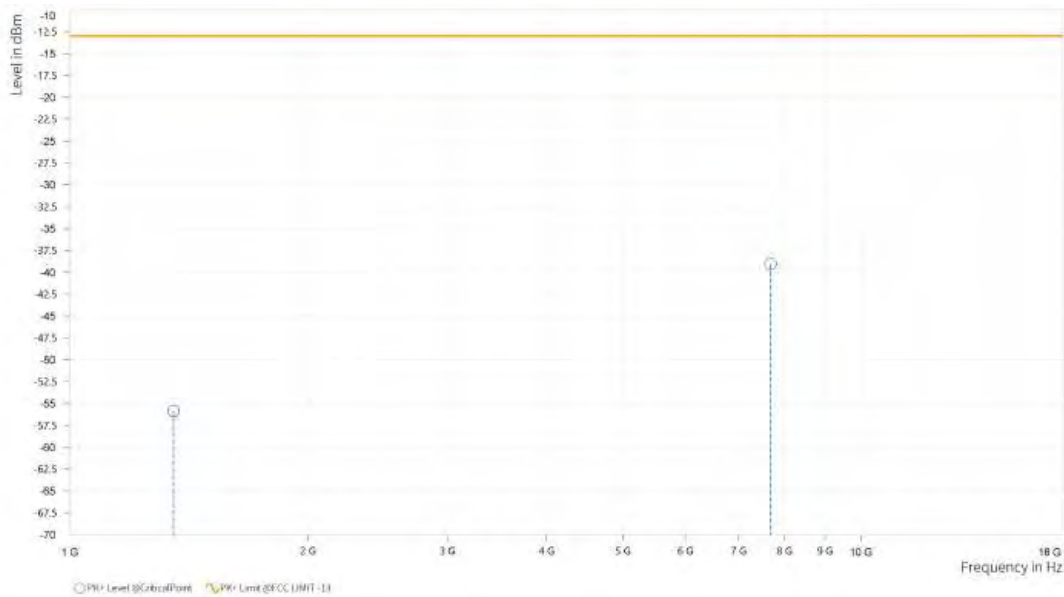


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 10MHz / QPSK**

<b>MODE</b>	TX channel 136100	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,352.000	-55.86	-13.00	42.86	14.20	H	359	1
5	7,687.500	-39.05	-13.00	26.05	32.70	H	1	2

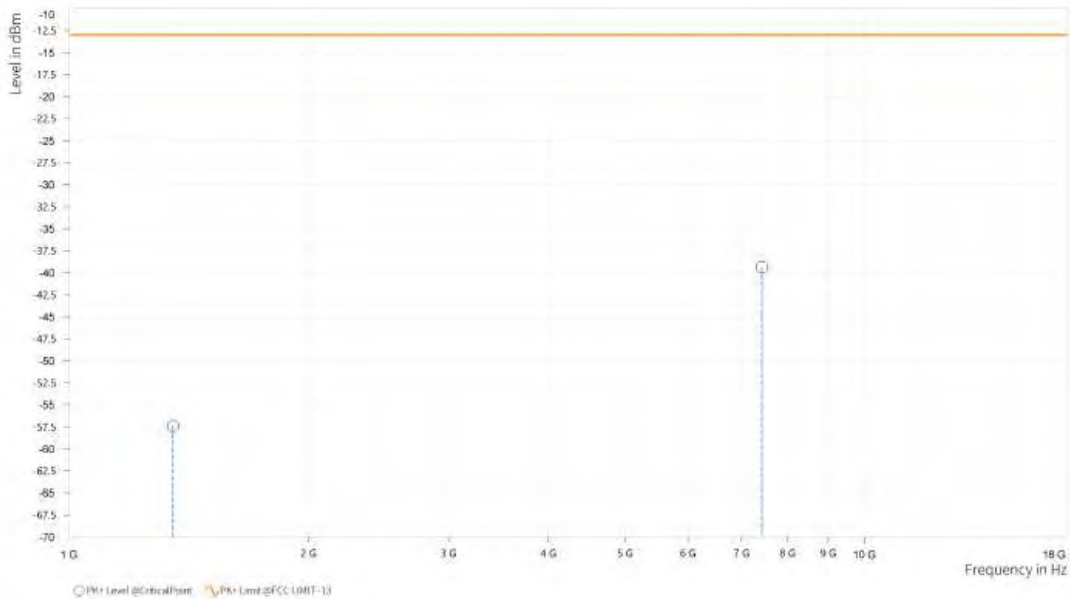




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 136100	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,351.500	-57.39	-13.00	44.39	13.56	V	65.4	1
5	7,432.000	-39.35	-13.00	26.35	31.74	V	86.6	2



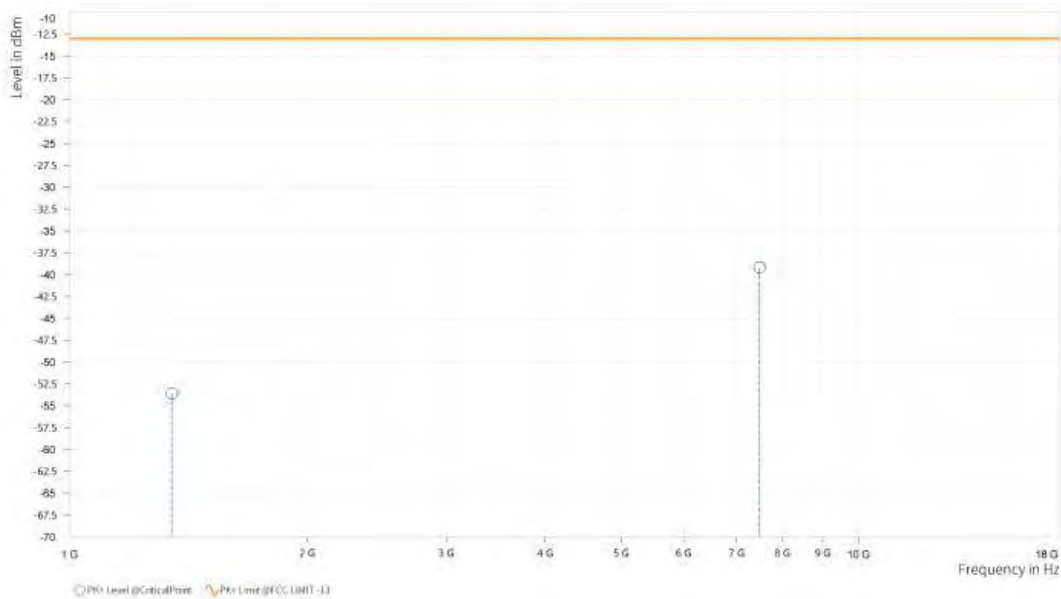


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 15MHz / QPSK**

<b>MODE</b>	TX channel 136100	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,347.000	-53.60	-13.00	40.60	14.25	H	359.1	1
5	7,489.000	-39.18	-13.00	26.18	31.78	H	359	2



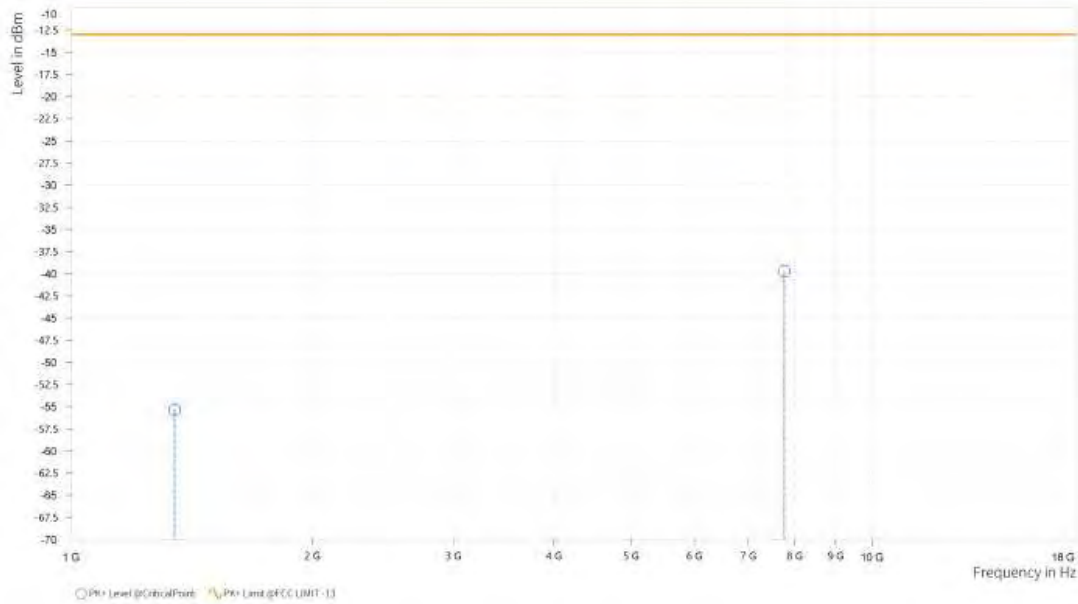




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 136100	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,346.500	-55.37	-13.00	42.37	13.74	V	359.1	1
5	7,767.000	-39.72	-13.00	26.72	33.02	V	1	2





Test Report No.: W7L-P23100014RF12

N77 (Part 270): SRS-1(ANT 7)

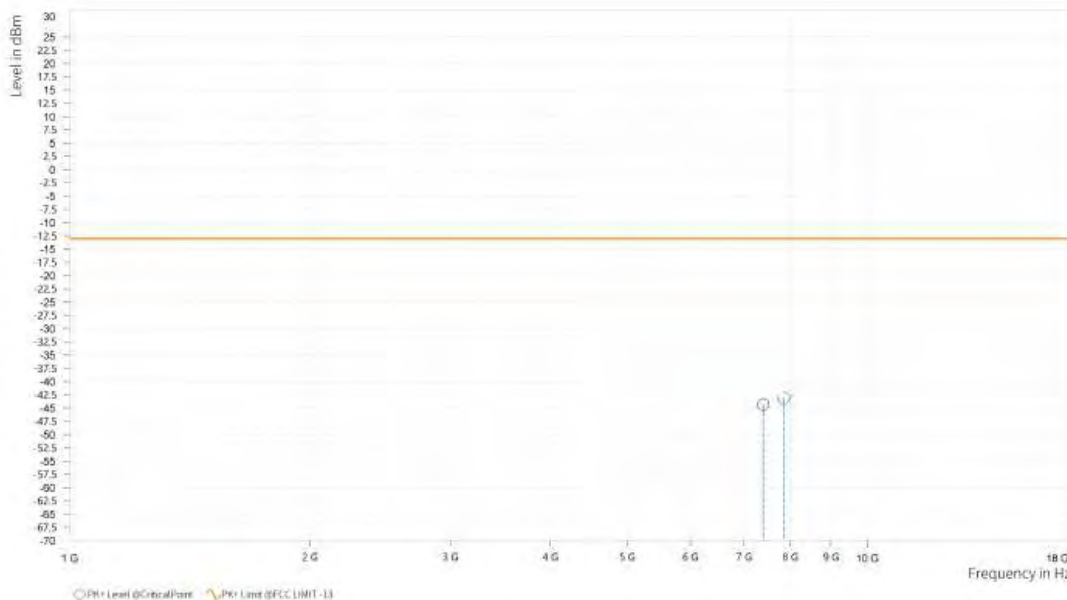
Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL BANDWIDTH: 20MHz / QPSK

CH 647334

MODE	TX channel 647334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,402.000	-44.33	-13.00	31.33	31.56	H	54.4	2
5	7,857.500	-43.11	-13.00	30.11	32.98	H	359	1

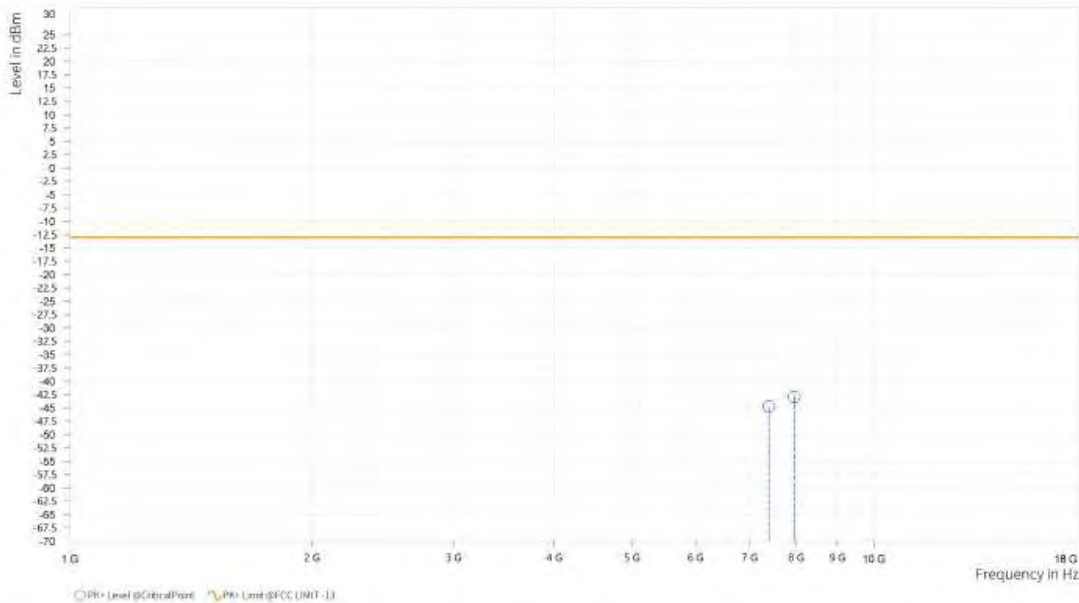




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 647334	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,402.000	-44.76	-13.00	31.76	31.73	V	359	2
5	7,955.500	-42.90	-13.00	29.90	33.23	V	267.4	1



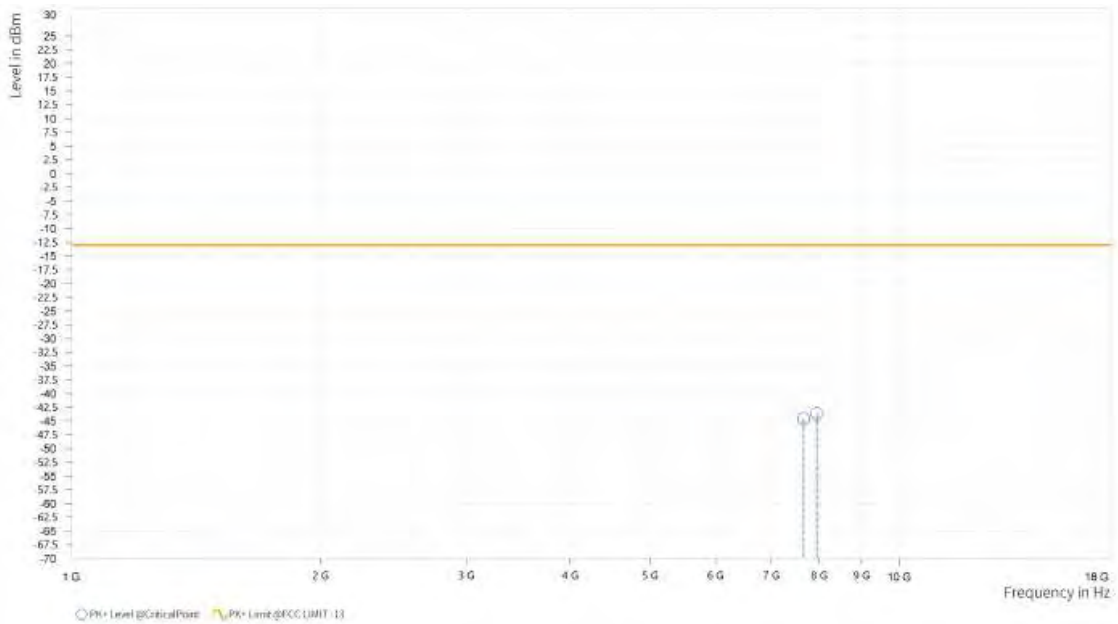


Test Report No.: W7L-P23100014RF12

CH 656000

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,662.000	-44.58	-13.00	31.58	32.48	H	1	1
5	7,952.500	-43.64	-13.00	30.64	32.98	H	271	1

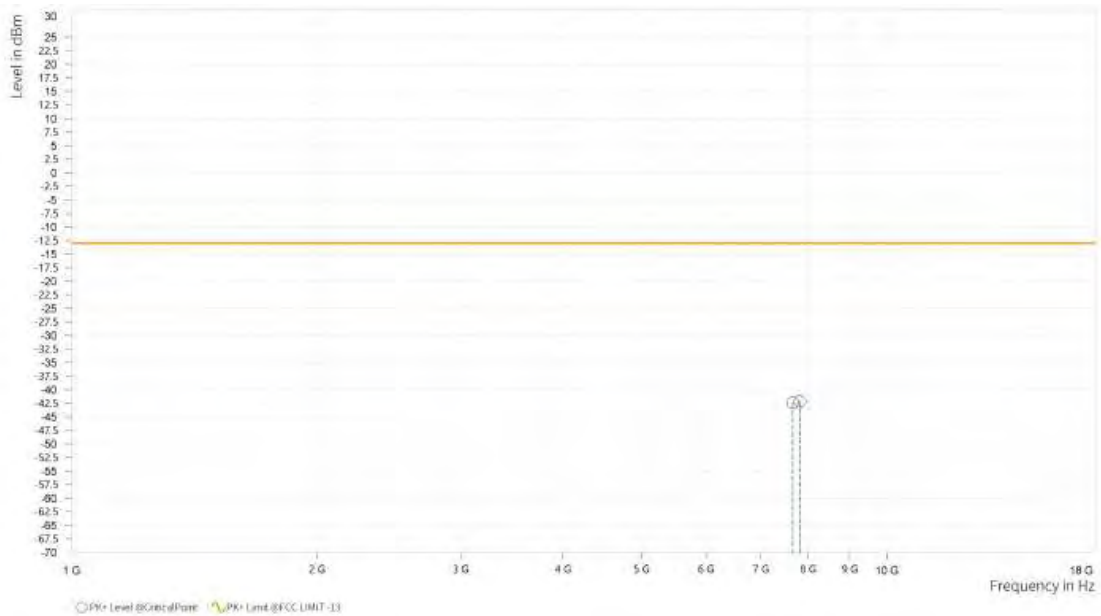




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,662.000	-42.43	-13.00	29.43	32.58	V	55.6	2
5	7,821.500	-42.16	-13.00	29.16	33.07	V	359.1	1



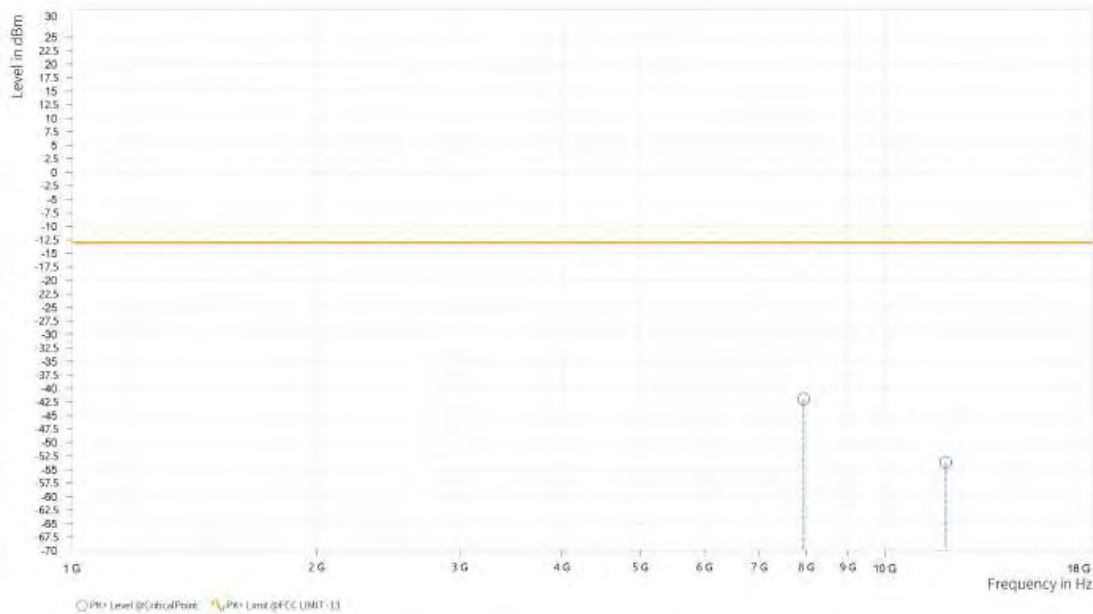


Test Report No.: W7L-P23100014RF12

CH 664666

<b>MODE</b>	TX channel 664666	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,940.500	-41.96	-13.00	28.96	32.99	H	359	1
6	11,877.500	-53.68	-13.00	40.68	24.57	H	359	2

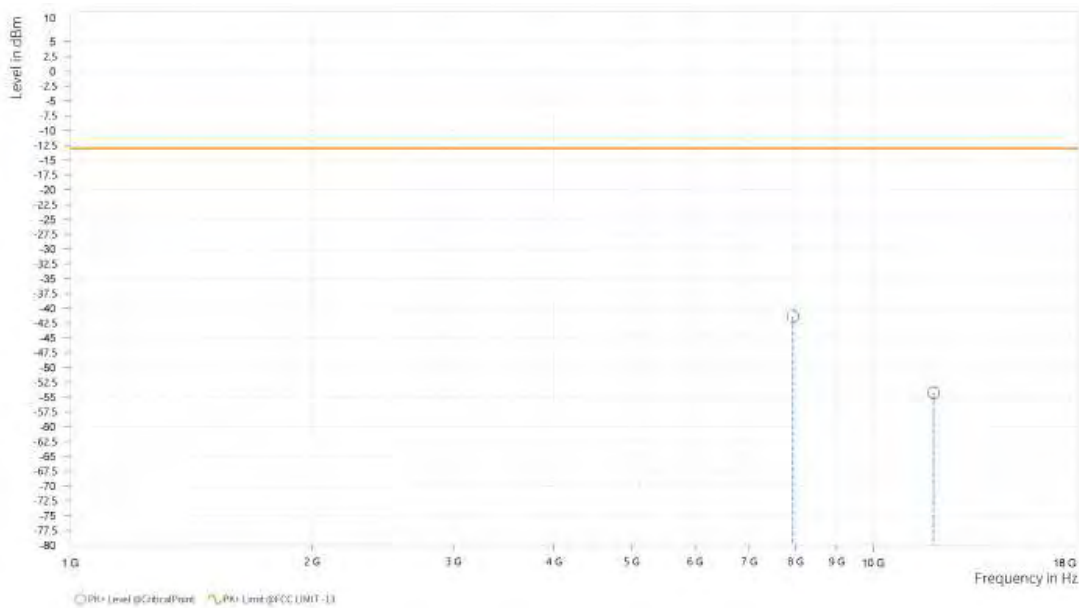




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 664666	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,941.000	-41.37	-13.00	28.37	33.19	V	1	1
6	11,881.500	-54.26	-13.00	41.26	24.52	V	359	1



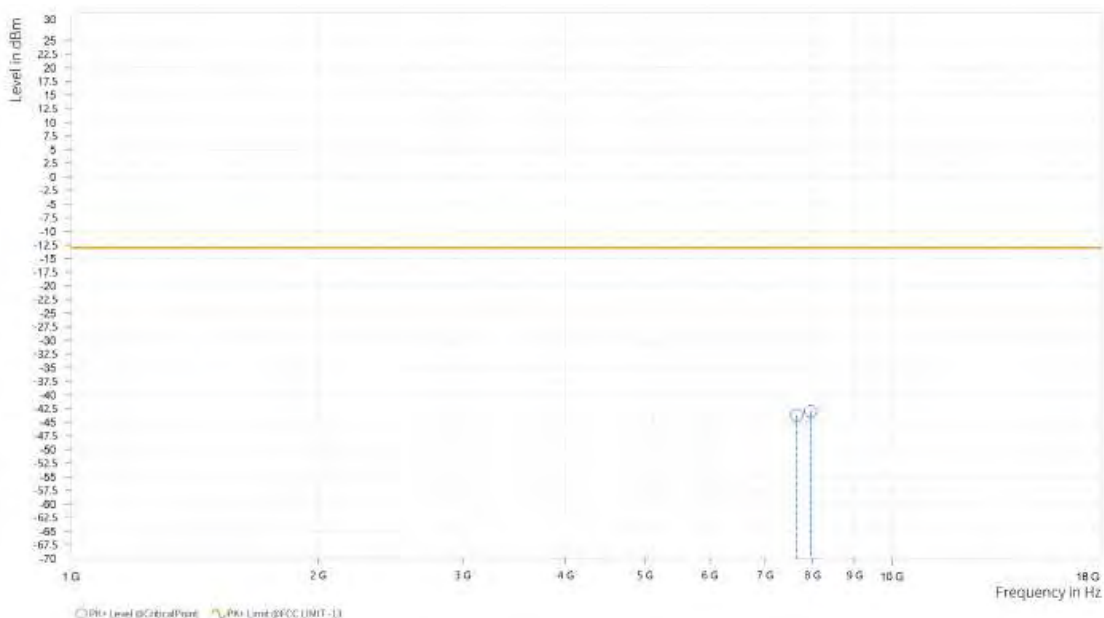


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 30MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,652.000	-43.75	-13.00	30.75	32.42	H	54.4	2
5	7,955.500	-43.02	-13.00	30.02	32.98	H	359	2



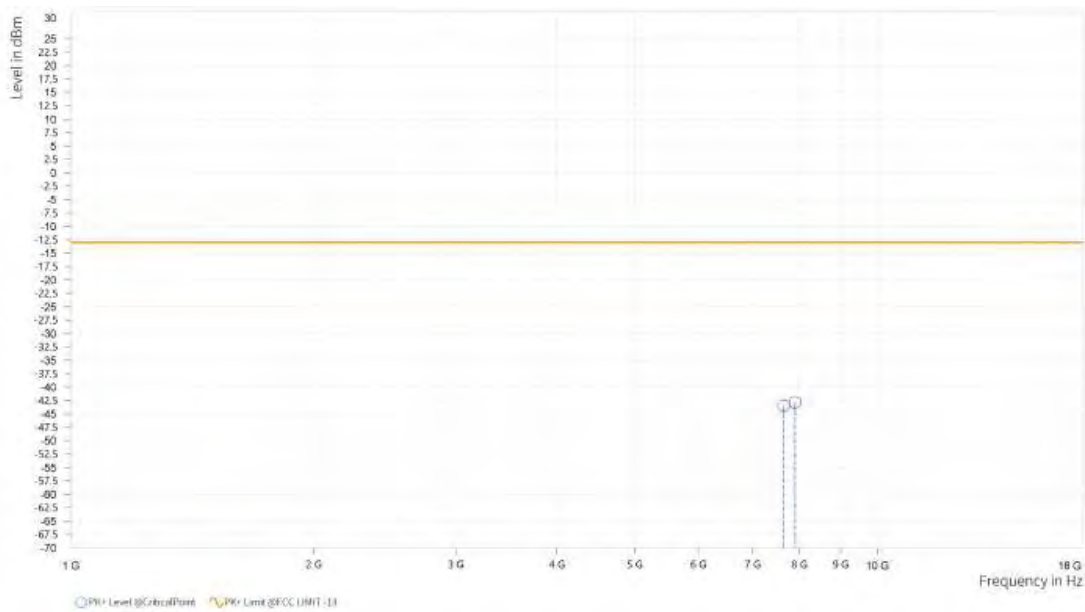




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,652.500	-43.48	-13.00	30.48	32.51	V	54.4	2
5	7,907.500	-42.84	-13.00	29.84	33.09	V	266.2	1



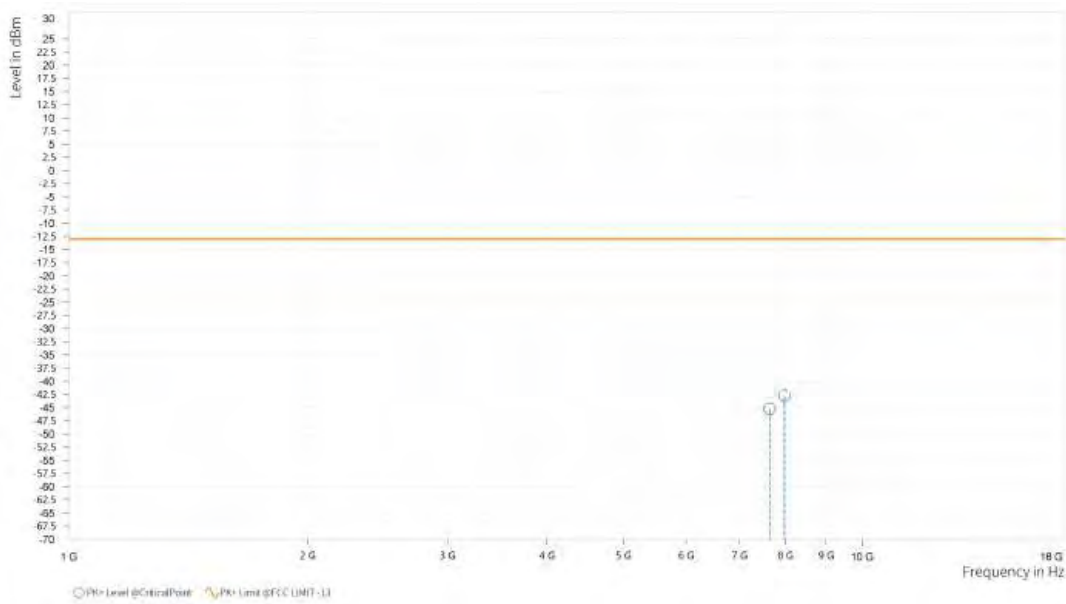


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 40MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,641.500	-45.24	-13.00	32.24	32.36	H	1	1
5	7,975.500	-42.77	-13.00	29.77	32.99	H	359	1

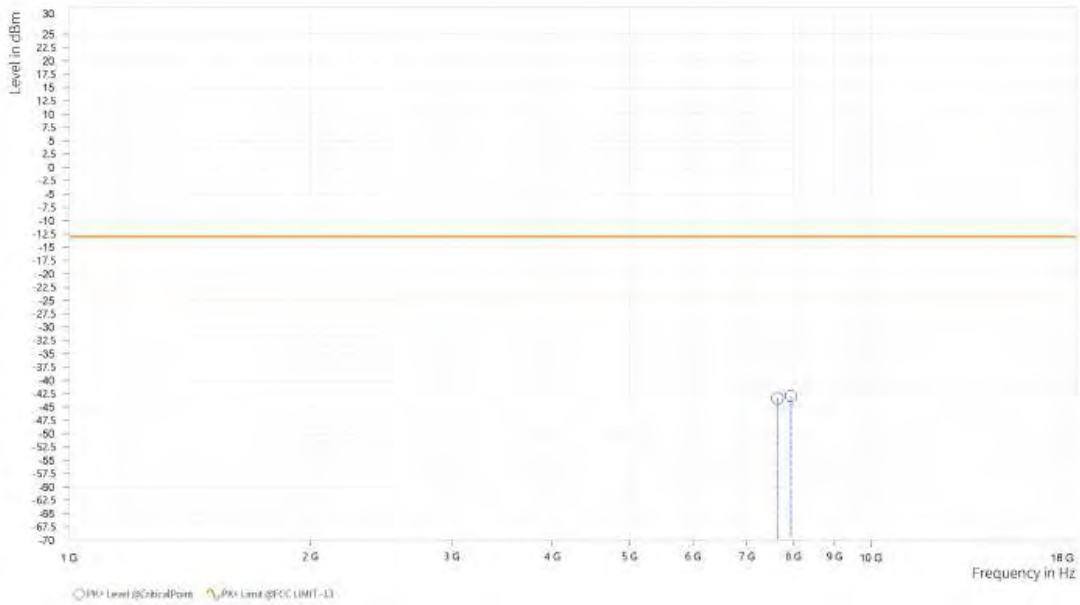




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,642.500	-43.38	-13.00	30.38	32.44	V	53.2	2
5	7,949.000	-42.92	-13.00	29.92	33.21	V	305.5	1



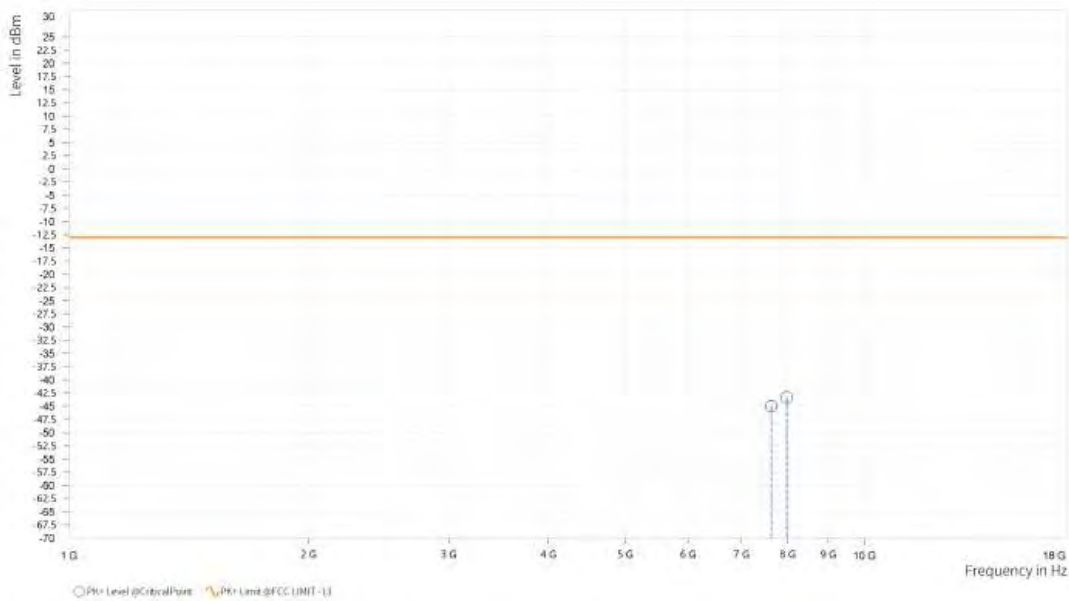


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,632.500	-45.01	-13.00	32.01	32.31	H	1	1
5	7,984.000	-43.36	-13.00	30.36	33.05	H	359	2

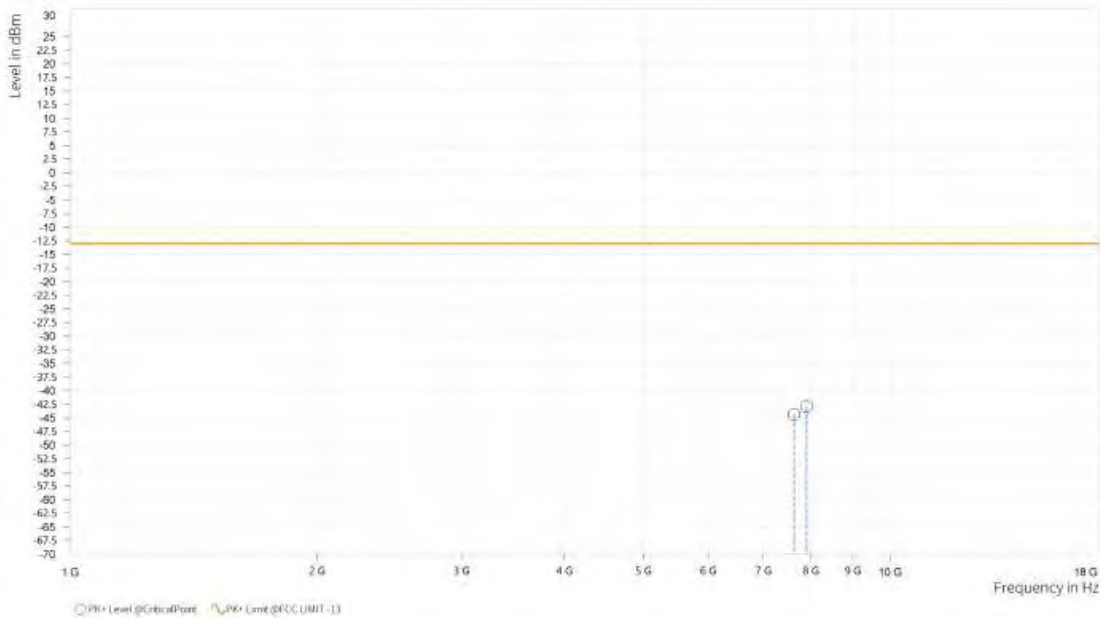




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,632.500	-44.35	-13.00	31.35	32.38	V	54.4	2
5	7,905.500	-42.90	-13.00	29.90	33.08	V	359	2



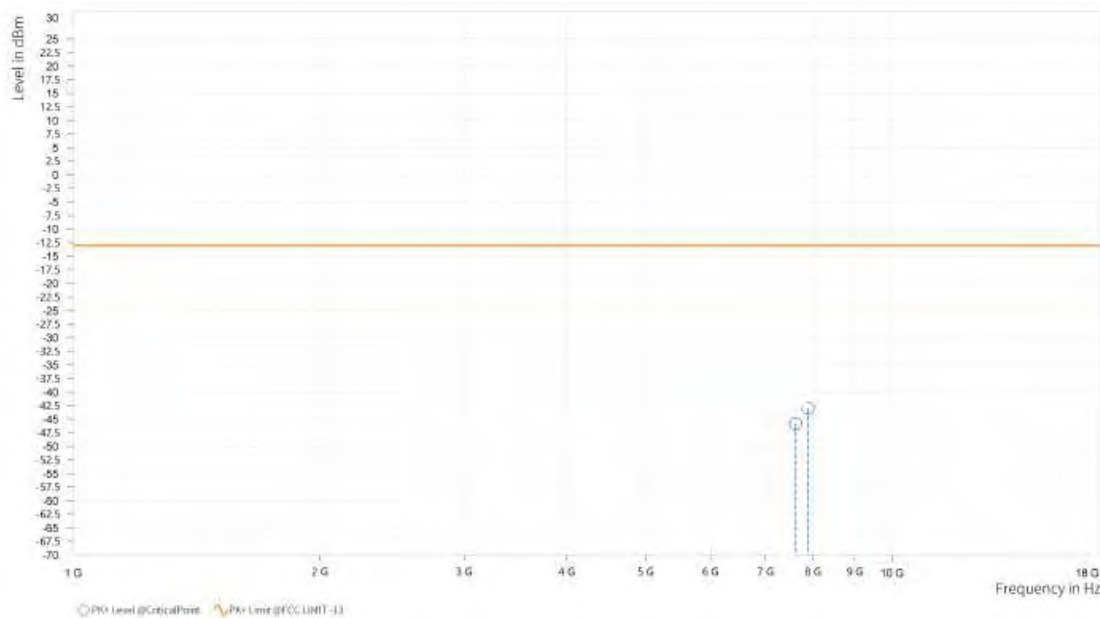


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 60MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,621.500	-45.84	-13.00	32.84	32.25	H	91.4	2
5	7,889.000	-43.01	-13.00	30.01	33.01	H	0.9	2

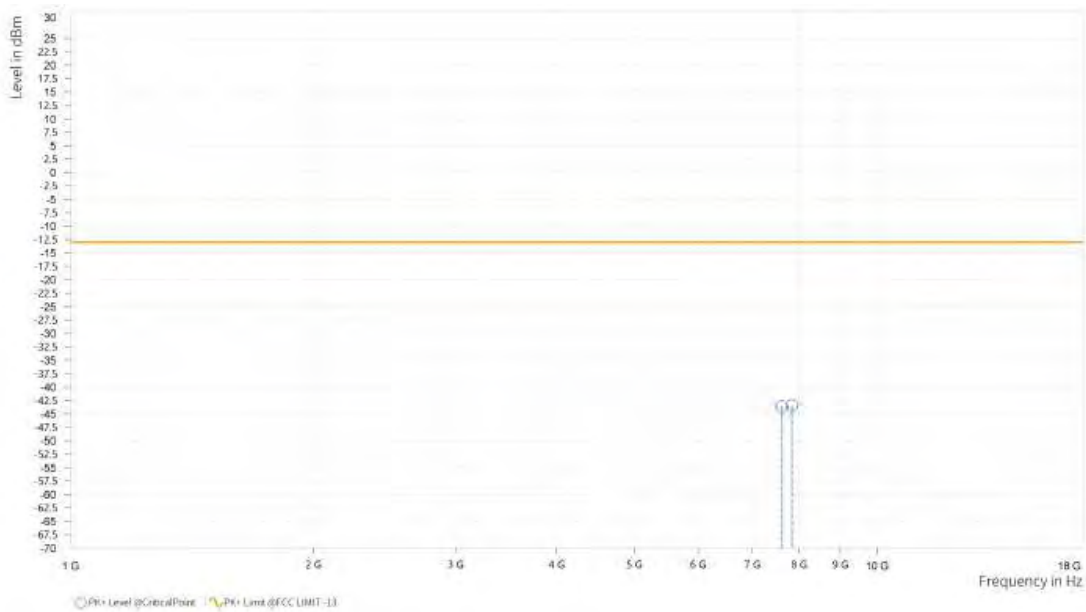




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,622.000	-43.67	-13.00	30.67	32.31	V	54.4	2
5	7,839.000	-43.43	-13.00	30.43	33.06	V	1	2



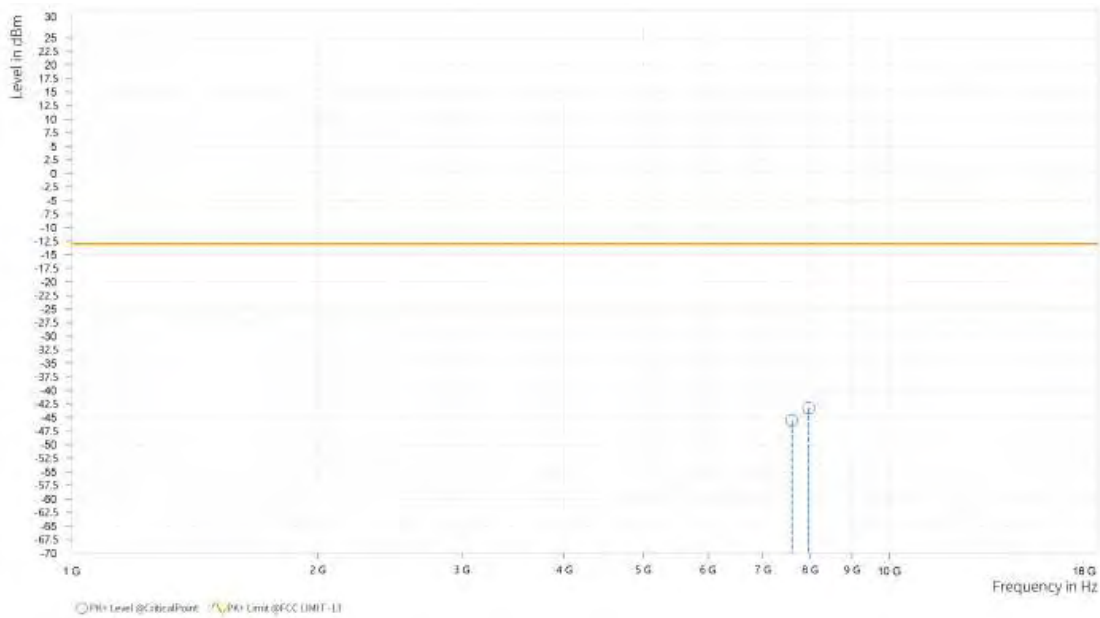


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 80MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,603.000	-45.54	-13.00	32.54	32.18	H	359	2
5	7,969.500	-43.28	-13.00	30.28	32.97	H	93.8	2



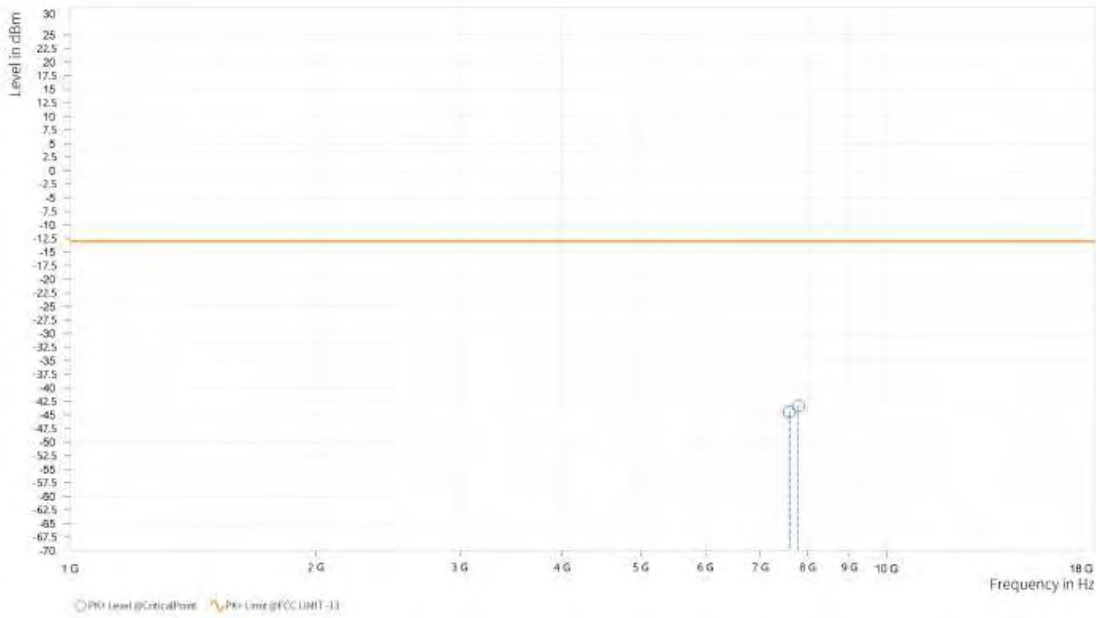




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,602.000	-44.47	-13.00	31.47	32.22	V	359	2
5	7,795.500	-43.35	-13.00	30.35	33.05	V	359	2



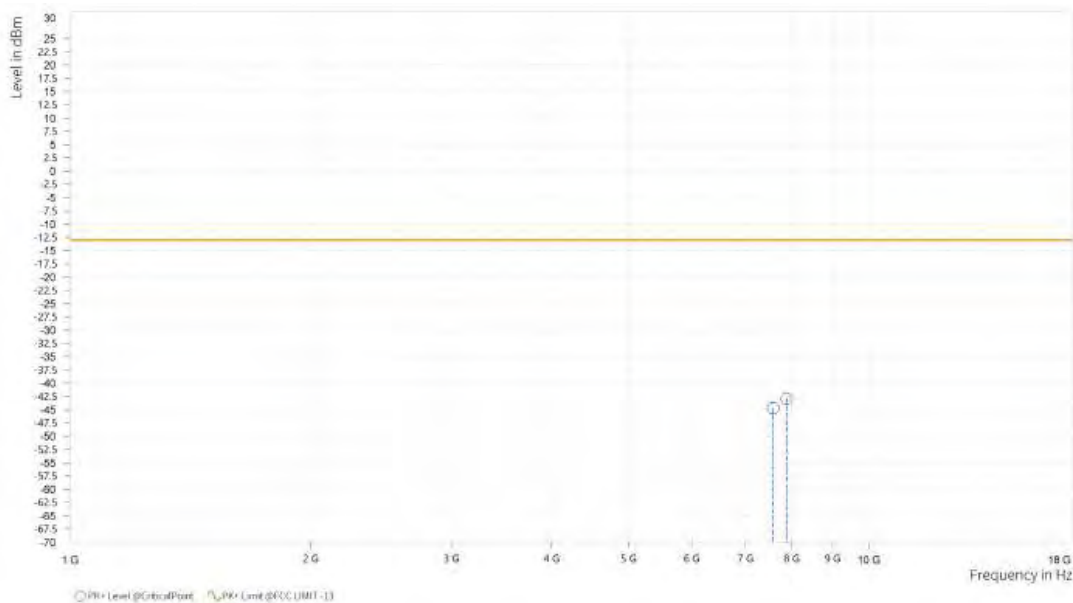


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 100MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,582.500	-44.73	-13.00	31.73	32.16	H	53.3	2
5	7,886.500	-42.90	-13.00	29.90	33.01	H	359	2

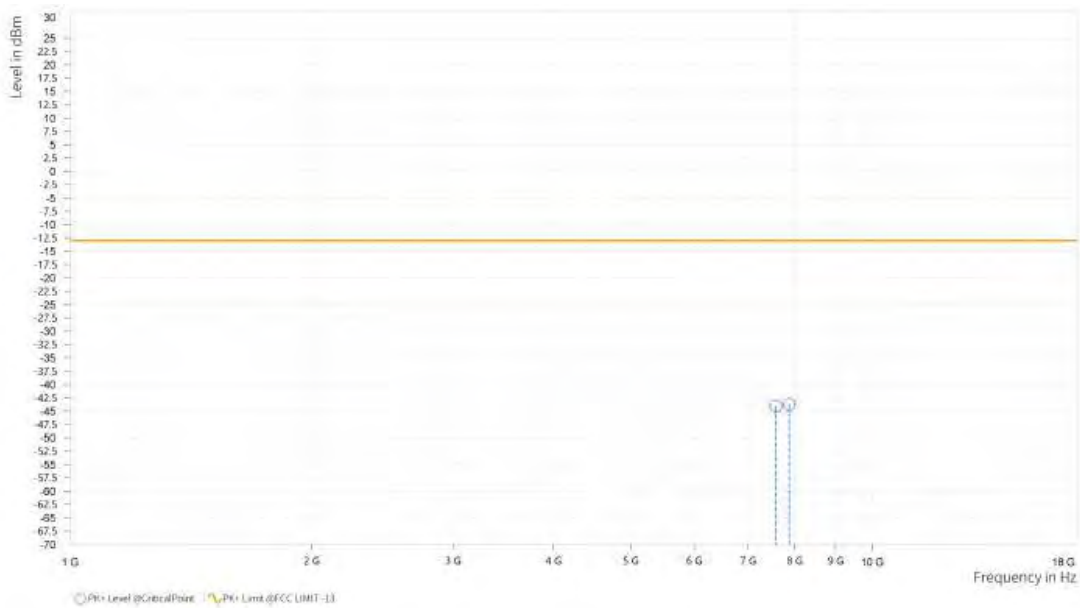




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,582.000	-44.07	-13.00	31.07	32.18	V	52.1	2
5	7,882.500	-43.68	-13.00	30.68	33.04	V	0.9	2





Test Report No.: W7L-P23100014RF12

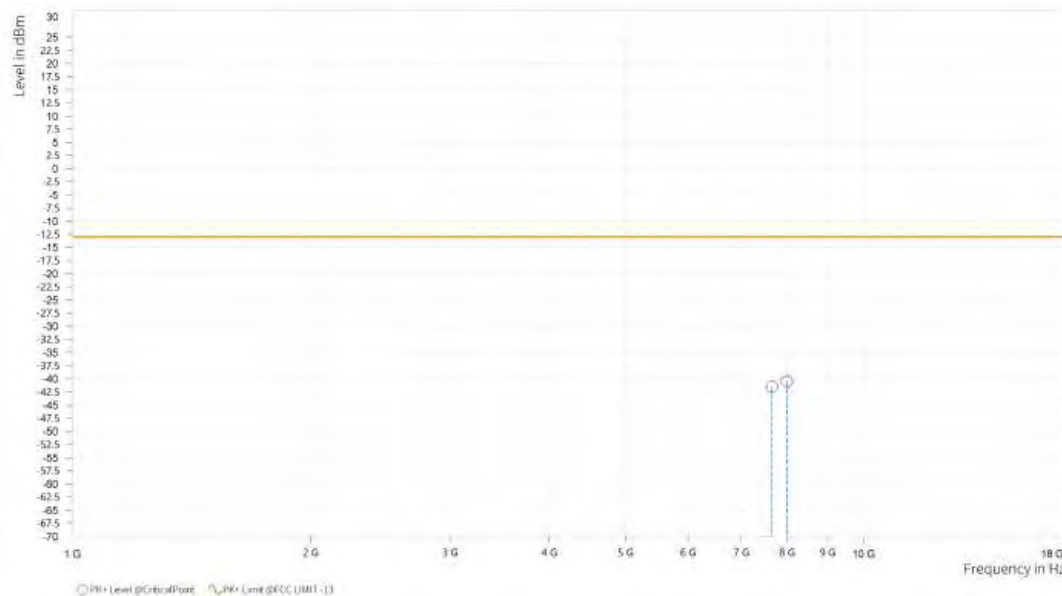
**N77 (Part 270): SRS-2 (ANT 4)**

**Note:** For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

**CHANNEL BANDWIDTH: 20MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,658.500	-41.53	-13.00	28.53	32.46	H	1	2
5	7,999.000	-40.49	-13.00	27.49	33.15	H	359	1

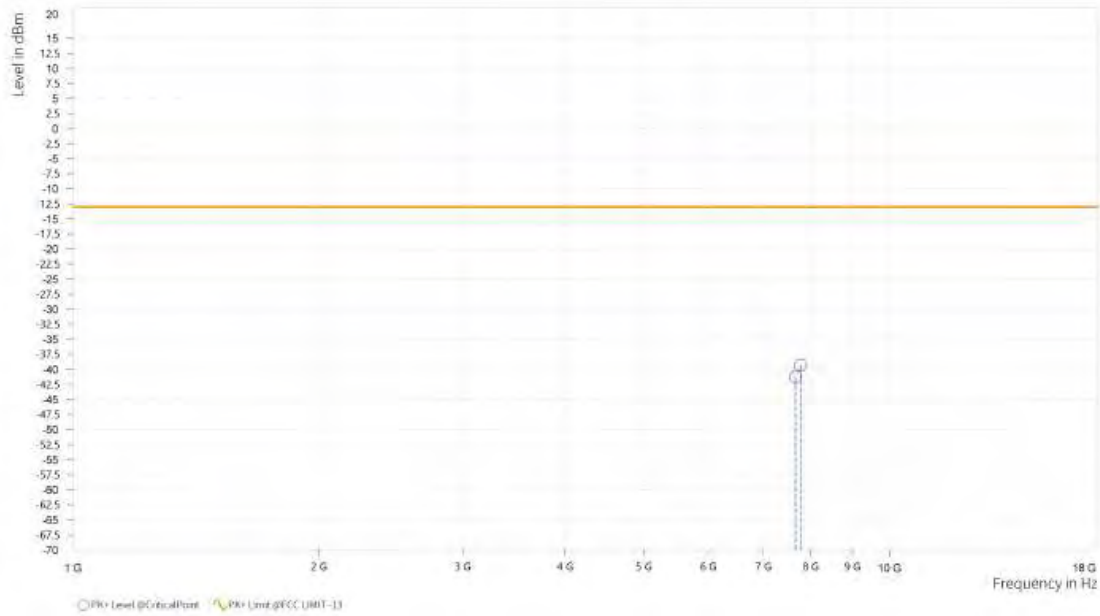




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,666.000	-41.30	-13.00	28.30	32.62	V	359	1
5	7,776.000	-39.28	-13.00	26.28	33.03	V	0.9	2



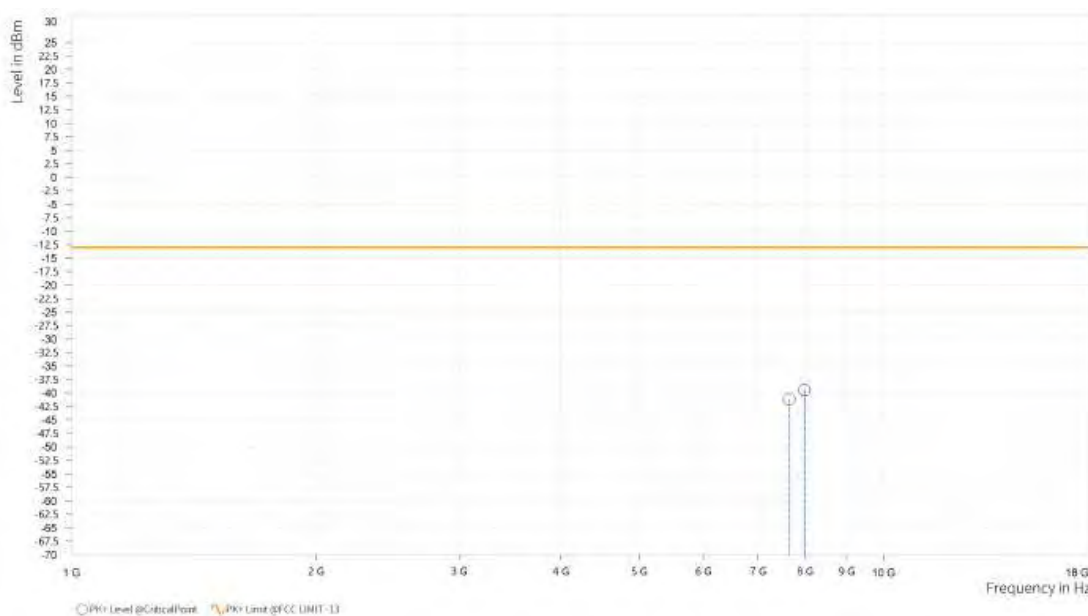


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 30MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,648.000	-41.14	-13.00	28.14	32.40	H	86.6	2
5	7,986.500	-39.47	-13.00	26.47	33.07	H	359	1

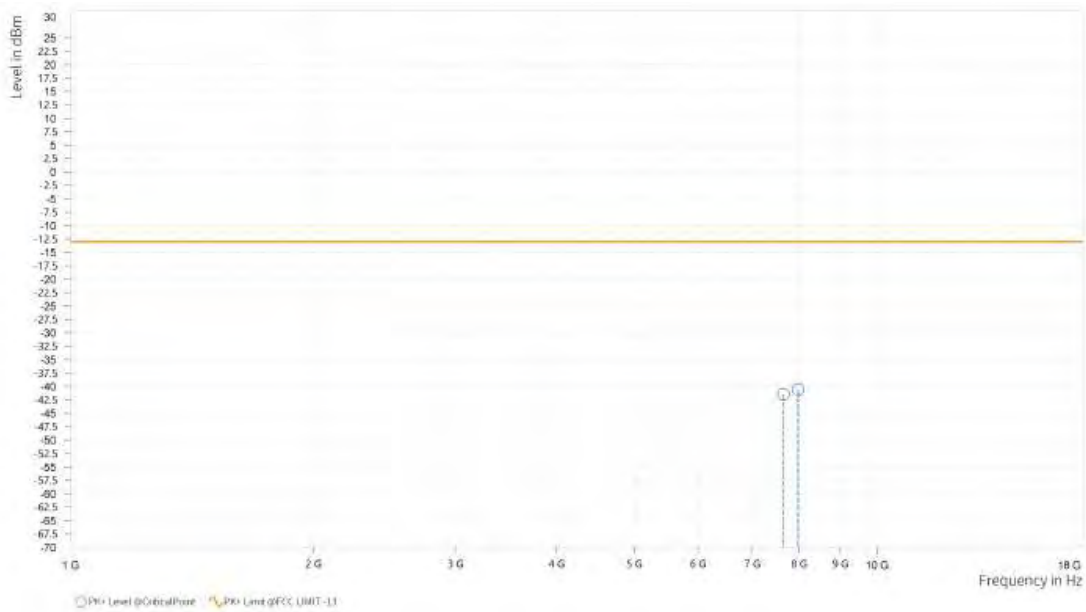




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,653.500	-41.46	-13.00	28.46	32.52	V	359	1
5	7,979.500	-40.55	-13.00	27.55	33.30	V	0.9	2



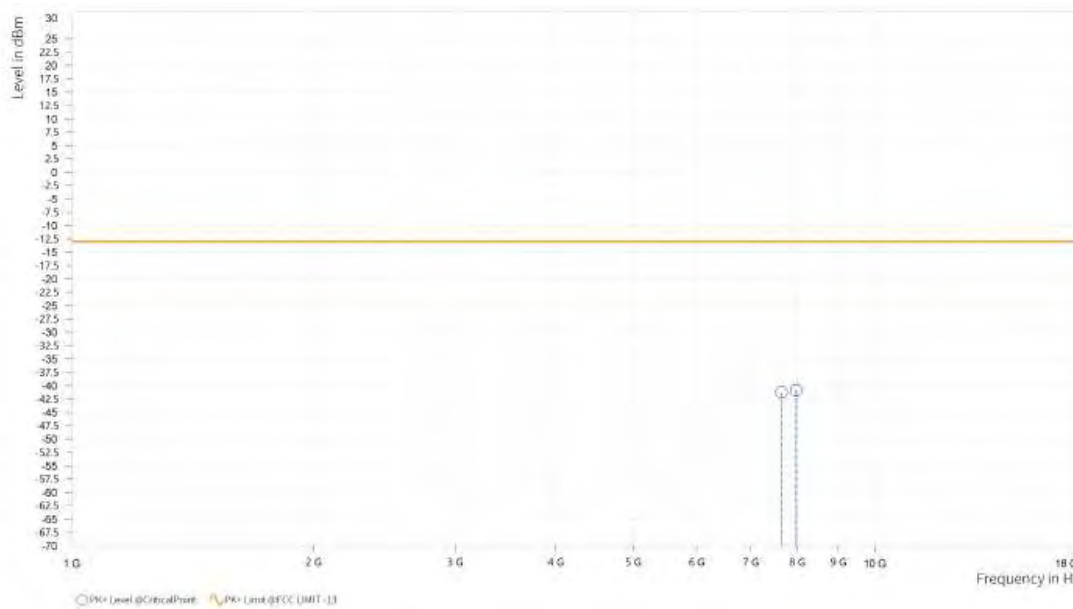


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 40MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,649.000	-41.26	-13.00	28.26	32.41	H	87.8	2
5	7,976.500	-40.88	-13.00	27.88	33.00	H	359	2



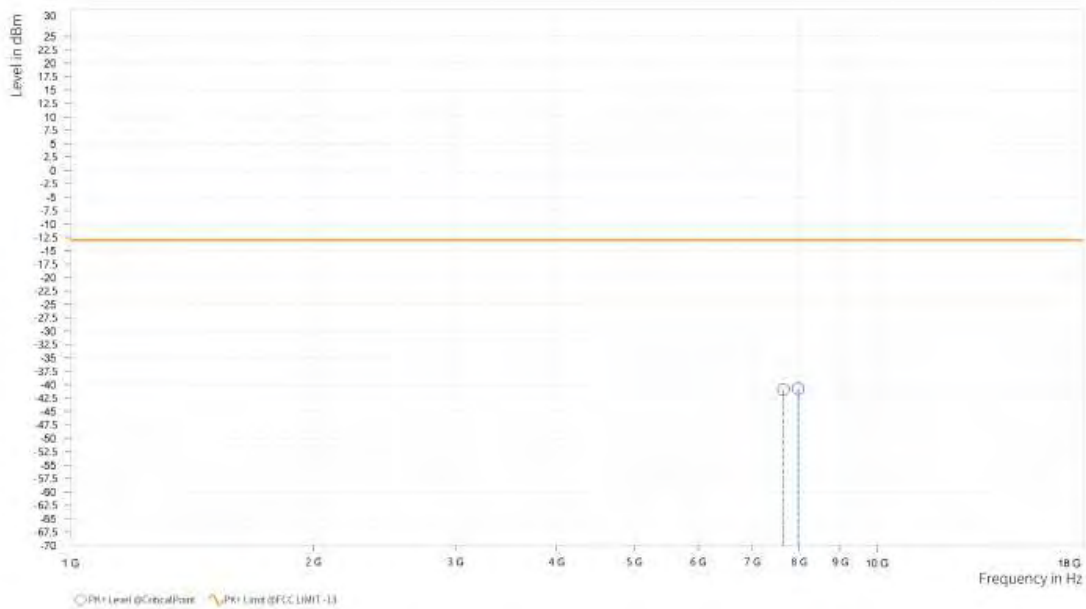




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,651.000	-40.91	-13.00	27.91	32.50	V	86.6	2
5	7,981.500	-40.76	-13.00	27.76	33.30	V	1	2



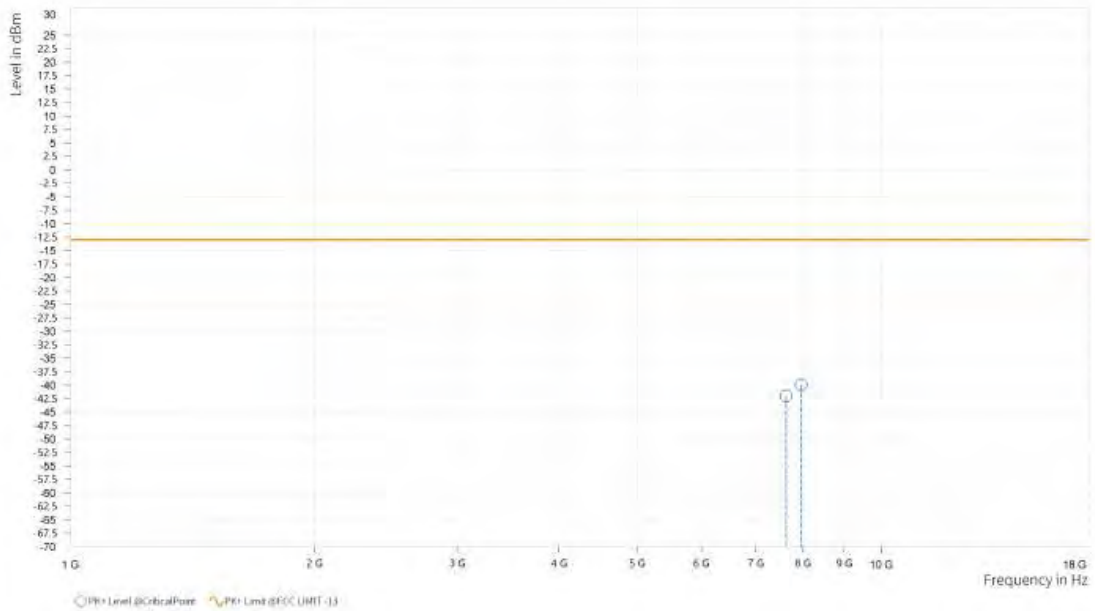


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 50MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,630.000	-42.00	-13.00	29.00	32.30	H	1	1
5	7,961.000	-39.94	-13.00	26.94	32.98	H	1	1

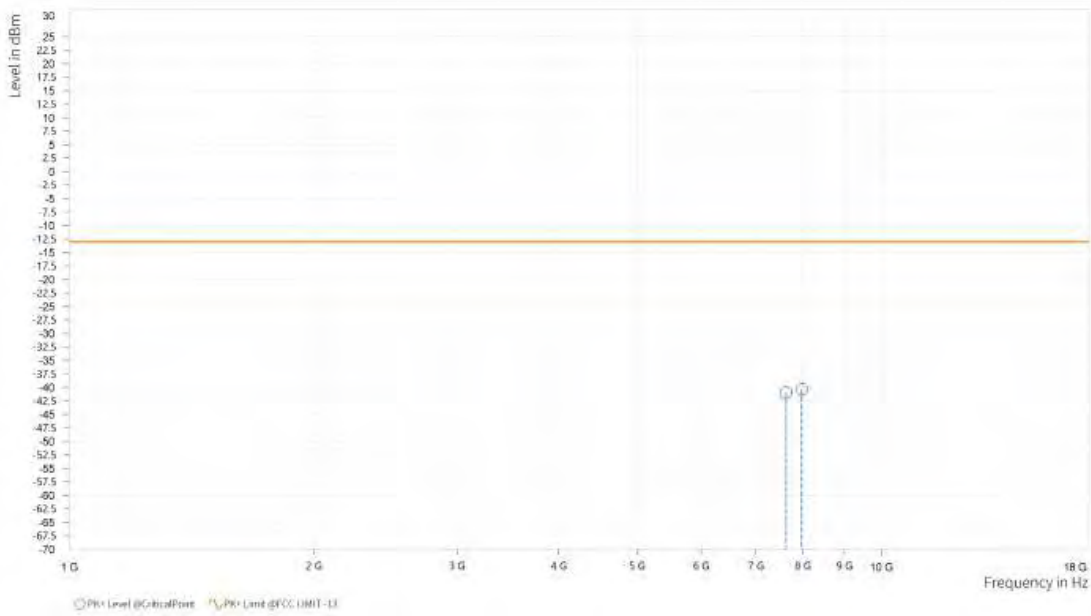




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,627.500	-41.01	-13.00	28.01	32.34	V	272.2	1
5	7,975.000	-40.37	-13.00	27.37	33.28	V	359	2



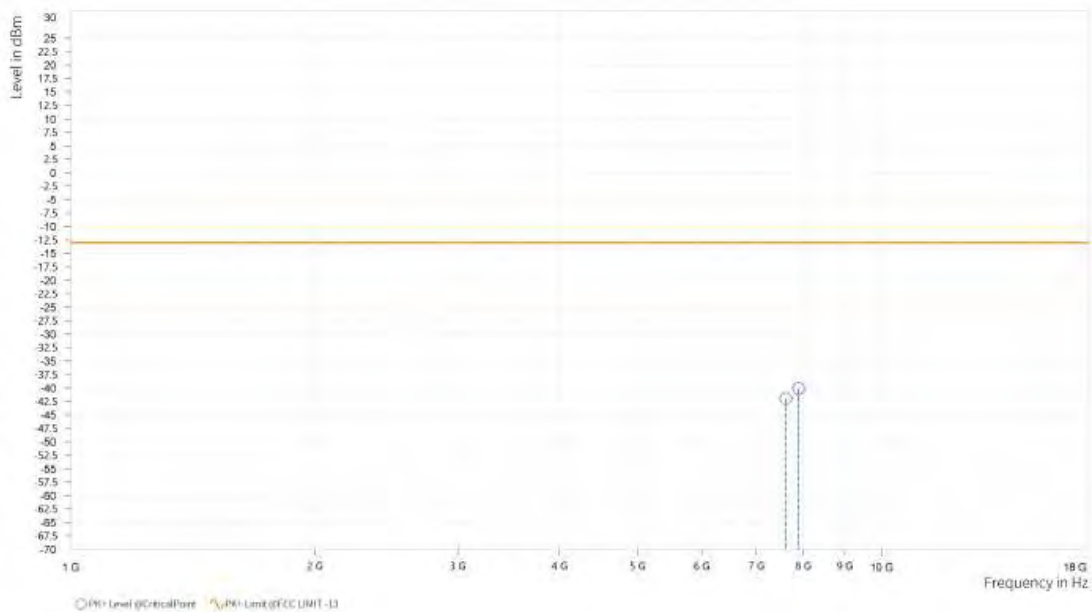


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 60MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,617.500	-41.99	-13.00	28.99	32.23	H	274.6	1
5	7,895.500	-40.12	-13.00	27.12	33.01	H	359	1

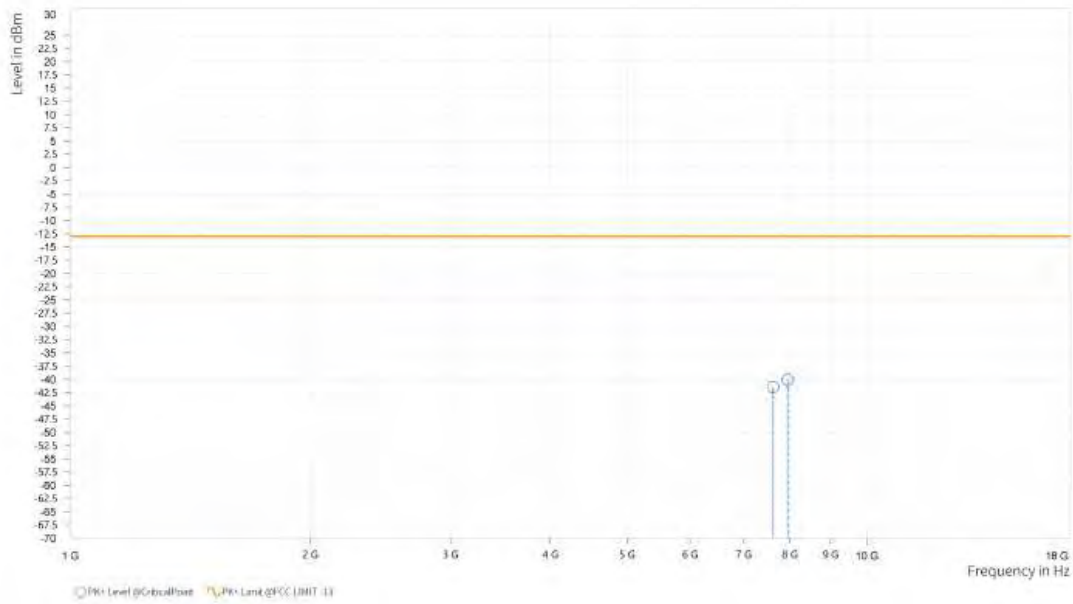




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,622.500	-41.47	-13.00	28.47	32.31	V	1	2
5	7,951.000	-40.13	-13.00	27.13	33.22	V	359	2



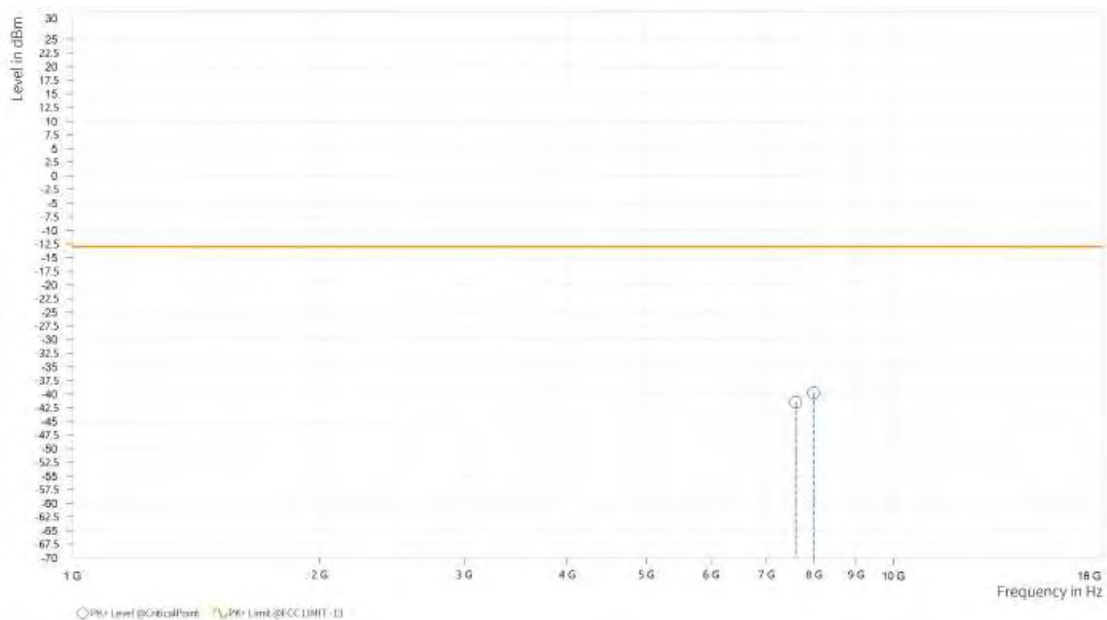


Test Report No.: W7L-P23100014RF12

**CHANNEL BANDWIDTH: 80MHz / QPSK**

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,602.500	-41.47	-13.00	28.47	32.18	H	87.8	2
5	7,997.500	-39.79	-13.00	26.79	33.14	H	359	1

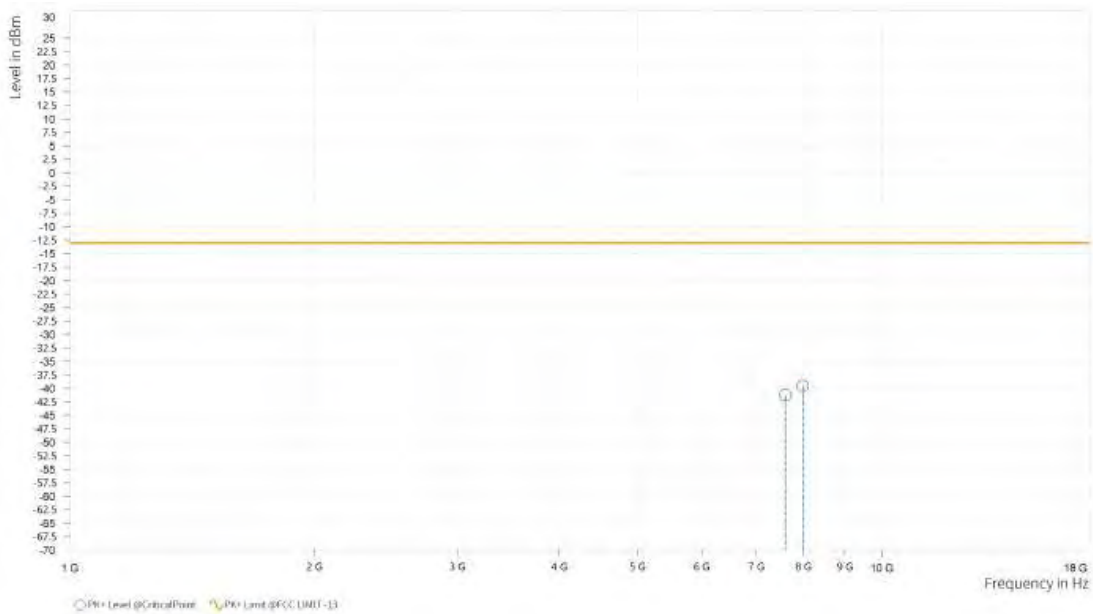




Test Report No.: W7L-P23100014RF12

<b>MODE</b>	TX channel 656000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60HZ
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,602.500	-41.21	-13.00	28.21	32.22	V	359	1
5	7,990.000	-39.56	-13.00	26.56	33.33	V	1	2





Test Report No.: W7L-P23100014RF12

CHANNEL BANDWIDTH: 100MHz / QPSK

CH650000

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,586.000	-41.21	-13.00	28.21	32.17	H	1	1
5	7,920.500	-39.24	-13.00	26.24	33.00	H	0.9	2

