

FCC TEST REPORT

(PART 27)

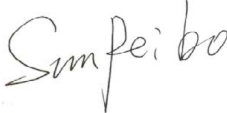
Applicant:	Beijing InHand Networks Technology Co., Ltd.
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing China

Manufacturer or Supplier:	Beijing InHand Networks Technology Co., Ltd.
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing China
Product:	5G Fixed Wireless Access
Brand Name:	inhand
Model Name:	FWA12-NANR
FCC ID:	2AANY-FWA12
Date of tests:	Jan. 17, 2025 ~ Apr. 08, 2025

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

- ☒ **FCC Part 27** ☒ **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 Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
 Date: Apr. 08, 2025	 Date: Apr. 08, 2025

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Test Report No.: PSU-NQN2502170113RF05

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2502170113RF05	Original release	Apr. 08, 2025

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
§2.1046	Conducted Output Power	Compliance	A
§27.50(h)(2) §27.50(k)(3)	Equivalent Isotropically Radiated Power (Band 7C) (Band 38C) (Band 41C) (Band 42C)	Compliance	A
§2.1055 §27.54	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§2.1051 §27.53(m)(4)(6) §27.53(n)(2)	Conducted Band Edge Measurements (Band 7C) (Band 38C) (Band 41C) (Band 42C)	Compliance	A
§2.1051 §27.53(m)(4)(6) §27.53(n)(2)	Conducted Spurious Emissions (Band 7C) (Band 38C) (Band 41C) (Band 42C)	Compliance	A
§2.1051 §27.53(m)(4)(6) §27.53(n)(2)	Radiated Spurious Emissions (Band 7C) (Band 38C) (Band 41C) (Band 42C)	Compliance	A
NA	Peak to average ratio	Compliance	A



Test Report No.: PSU-NQN2502170113RF05

***Test Lab Information Reference**

Lab A:

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

Lab Address:

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

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.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,23	Aug.29,25
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Mar.28,24	Mar.27,26
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Dec.26,23	Dec.25,25
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,23	Aug.21,25
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,23	Aug.21,25
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,23	Feb.22,25
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Sep.06,23	Sep.05,25
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.27,24	Apr.26,25
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26



Test Report No.: PSU-NQN2502170113RF05

- NOTE:**
1. The calibration interval of the above test instruments is 12 / 24/ 36 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	5G Fixed Wireless Access	
BRAND NAME	inhand	
MODEL NAME	FWA12-NANR	
NOMINAL VOLTAGE	12.0Vdc(adapter or host equipment)	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM, 64QAM,256 QAM
FREQUENCY RANGE	LTE Band CA_7C Channel Bandwidth: 10MHz+20MHz	2505.5MHz ~ 2560MHz
	LTE Band CA_7C Channel Bandwidth: 15MHz+10MHz	2507.5MHz ~ 2564.7MHz
	LTE Band CA_7C Channel Bandwidth: 15MHz+15MHz	2507.5MHz ~ 2562.5MHz
	LTE Band CA_7C Channel Bandwidth: 15MHz+20MHz	2507.8MHz ~ 2560MHz
	LTE Band CA_7C Channel Bandwidth: 20MHz+10MHz	2510MHz ~ 2564.5MHz
	LTE Band CA_7C Channel Bandwidth: 20MHz+15MHz	2510MHz ~ 2562.2MHz
	LTE Band CA_7C Channel Bandwidth: 20MHz+20MHz	2510MHz ~ 2560MHz
	LTE Band CA_38C Channel Bandwidth: 15MHz+15MHz	2577.5MHz ~ 2612.5MHz
	LTE Band CA_38C Channel Bandwidth: 20MHz+20MHz	2580.5MHz ~ 2610MHz
	LTE Band CA_41C Channel Bandwidth: 5MHz+20MHz	2499.3MHz ~ 2680MHz
	LTE Band CA_41C Channel Bandwidth: 10MHz+15MHz	2501.3MHz ~ 2682.5MHz
	LTE Band CA_41C Channel Bandwidth: 10MHz+20MHz	2501.5MHz ~ 2680MHz

FREQUENCY RANGE	LTE Band CA_41C Channel Bandwidth: 15MHz+10MHz	2503.5MHz ~ 2684.7MHz
	LTE Band CA_41C Channel Bandwidth: 15MHz+15MHz	2496MHz ~ 2682.5MHz
	LTE Band CA_41C Channel Bandwidth: 15MHz+20MHz	2503.8MHz ~ 2680MHz
	LTE Band CA_41C Channel Bandwidth: 20MHz+5MHz	2506MHz ~ 2686.7MHz
	LTE Band CA_41C Channel Bandwidth: 20MHz+10MHz	2506MHz ~ 2684.5MHz
	LTE Band CA_41C Channel Bandwidth: 20MHz+15MHz	2506MHz ~ 2682.2MHz
	LTE Band CA_41C Channel Bandwidth: 20MHz+20MHz	2506MHz ~ 2680MHz
	LTE Band CA_42C Channel Bandwidth: 5MHz+20MHz	3453.3MHz ~ 3540MHz
	LTE Band CA_42C Channel Bandwidth: 20MHz +5MHz	3460MHz ~ 3546.7MHz
	LTE Band CA_42C Channel Bandwidth: 10MHz +20MHz	3455.5MHz ~ 3540MHz
	LTE Band CA_42C Channel Bandwidth: 20MHz +10MHz	3460MHz ~ 3544.5MHz
	LTE Band CA_42C Channel Bandwidth: 15MHz +20MHz	3457.8MHz ~ 3540MHz
	LTE Band CA_42C Channel Bandwidth: 20MHz +15MHz	3460MHz ~ 3542.2MHz
	LTE Band CA_42C Channel Bandwidth: 20MHz +20MHz	3460MHz ~ 3540MHz
MAX. EIRP or EPR POWER	LTE Band CA_7C Channel Bandwidth: 20MHz+10MHz	371.5mW
	LTE Band CA_38C Channel Bandwidth: 20MHz+20MHz	297.2mW



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2502170113RF05

MAX. EIRP or EPR POWER	LTE Band CA_41C Channel Bandwidth: 20MHz+5MHz	704.7mW
	LTE Band CA_42C Channel Bandwidth: 20MHz+5MHz	477.5mW
ANTENNA TYPE	5G external antenna with 3.62dBi(Max) gain for LTE CA 7C 5G external antenna with 2.93dBi(Max) gain for LTE CA 38C 5G external antenna with 3.62dBi(Max) gain for LTE CA 41C 5G external antenna with 4.82dBi(Max) gain for LTE CA 42C	
HW VERSION	N/A	
SW VERSION	V2.0	
I/O PORTS	Refer to user's manual	
EXTREME TEMPERATURE	-10°C~50 °C	
EXTREME VOLTAGE	9 Vdc~14Vdc	

NOTE1: This product uses the module model RG620T-NA and supports LTE frequency bands 2/4/5/7/12/13/14/17/25/26/30/38/41/42/43/48/66/70/71. Therefore, for this product, we referred to the test data reported by the RG620T-NA module and reevaluated the spectrum of radiated emissions and EIRP.

For module RG620T-NA: Report No.: SEWM2311000473RG

FCC ID : XMR2024RG620TNA

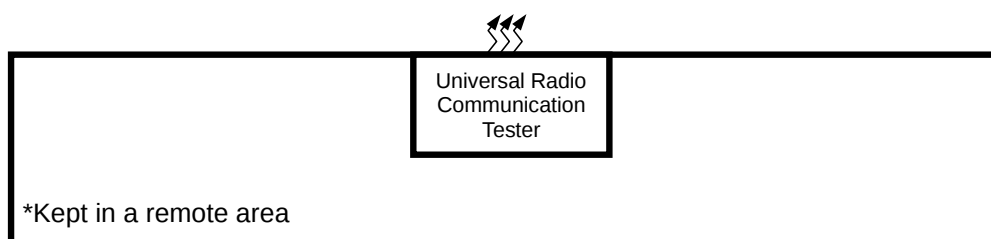
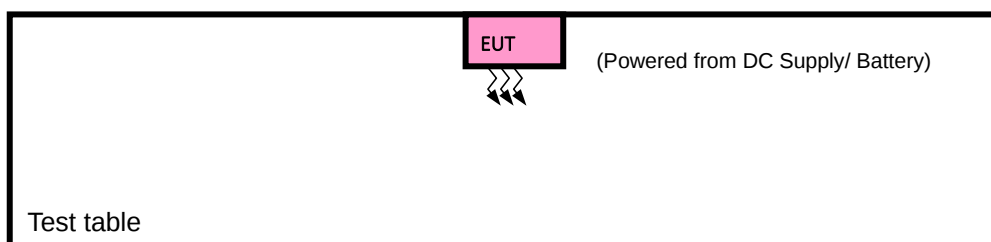
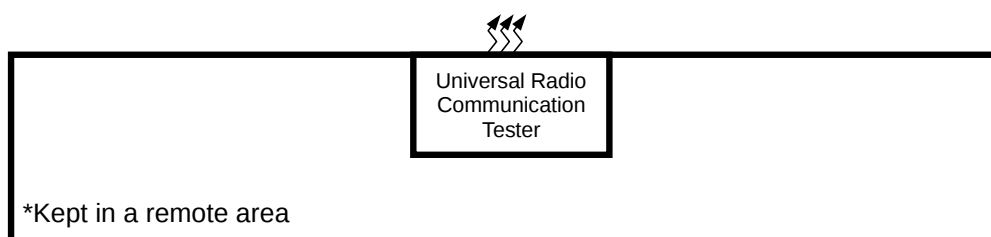
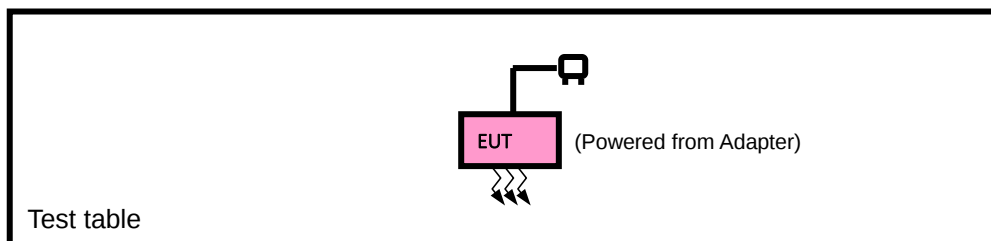
NOTE2:

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

MODULATION MODE	TX FUNCTION
LTE	8TX/8RX

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
5. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

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	HYELEC	HY3010B	551016	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 LTE link
B	EUT + DC Supply with LTE link

LTE BAND CA_7C MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABL E PCC CHANNEL	AVAILABL E SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	20805 to 21206	20949 to 21350	Low, Middle, High	10MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low, Middle, High	15MHz+15MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Low, Middle, High	15MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low, Middle, High	20MHz+10MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low, Middle, High	20MHz+15MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	20805 to 21206	20949 to 21350	Low, Middle, High	10MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	50RB/ 0RB Offset	100RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Low, Middle, High	15MHz+10MHz	QPSK,16QAM, 64QAM,256 QAM	75RB/ 0RB Offset	50RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Low, Middle, High	15MHz+15MHz	QPSK,16QAM, 64QAM,256 QAM	75RB/ 0RB Offset	75RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Low, Middle, High	15MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	75RB/ 0RB Offset	100RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Low, Middle, High	20MHz+10MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	50RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Low, Middle, High	20MHz+15MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	75RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	20850 to 21152	21048 to 21350	Low	20MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM QPSK,16QAM, 64QAM,256 QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
				High	20MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
A	CONDUCTED EMISSION	20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	20805 to 21206	20949 to 21350	Middle	10MHz+20MHz	QPSK	1RB/ 49RB Offset	1RB/ 0RB Offset
		20825 to 21277	20945 to 21397	Middle	15MHz+10MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		20825 to 21225	20975 to 21375	Middle	15MHz+15MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		20828 to 21179	20999 to 21350	Middle	15MHz+20MHz	QPSK	1RB/ 74RB Offset	1RB/ 0RB Offset
		20850 to 21251	20994 to 21395	Middle	20MHz+10MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21201	21201 to 21372	Middle	20MHz+15MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset
		20850 to 21152	21048 to 21350	Low, Middle, High	20MHz+20MHz	QPSK	1RB/ 99RB Offset	1RB/ 0RB Offset

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

case was found in QPSK modulation.

LTE BAND CA_38C MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABL E PCC CHANNEL	AVAILABL E SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	37825 to 38025	37975 to 38175	Low, Middle, High	15MHz+15MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		37850 to 37952	38048 to 38150	Low, Middle, High	20MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset

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

2. LTE Band 38C are covered by LTE Band 41C, Because it is a subset of LTE Band 41C with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 41C

LTE BAND CA_41C MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	39750 to 41341	39921 to 41512	Low, Middle, High	20MHz+15MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		39728 to 41319	39899 to 41490	Low, Middle, High	15MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		39750 to 41391	39894 to 41535	Low, Middle, High	20MHz+10MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		39705 to 41346	39849 to 41490	Low, Middle, High	10MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		39725 to 41365	39875 to 41515	Low, Middle, High	15MHz +15MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		39725 to 41417	39845 to 41537	Low, Middle, High	15MHz +10MHz	QPSK,16QAM, 64QAM,256 QAM	1RB / 74RB Offset	1RB / 0RB Offset
		39703 to 41395	39823 to 41515	Low, Middle, High	10MHz +15MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		39750 to 41440	39867 to 41557	Low, Middle, High	20MHz +5MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		39683 to 41373	39800 to 41490	Low, Middle, High	5MHz +20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 24RB Offset	1RB/ 0RB Offset
		39750 to 41292	39948 to 41490	Low, Middle, High	20MHz +20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB / 99RB Offset 1RB / 0RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	39750 to 41341	39921 to 41512	Low, Middle, High	20MHz+15MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	75RB/ 0RB Offset
		39728 to 41319	39899 to 41490	Low, Middle, High	15MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	75RB/ 0RB Offset	100RB/ 0RB Offset
		39750 to 41391	39894 to 41535	Low, Middle, High	20MHz+10MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	50RB/ 0RB Offset
		39705 to 41346	39849 to 41490	Low, Middle, High	10MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	50RB/ 0RB Offset	100RB/ 0RB Offset
		39725 to 41365	39875 to 41515	Low, Middle, High	15MHz +15MHz	QPSK,16QAM, 64QAM,256 QAM	75RB/ 0RB Offset	75RB/ 0RB Offset
		39725 to 41417	39845 to 41537	Low, Middle, High	15MHz +10MHz	QPSK,16QAM, 64QAM,256 QAM	75RB/ 0RB Offset	50RB/ 0RB Offset
		39703 to 41395	39823 to 41515	Low, Middle, High	10MHz +15MHz	QPSK,16QAM, 64QAM,256 QAM	50RB/ 0RB Offset	75RB/ 0RB Offset
		39750 to 41440	39867 to 41557	Low, Middle, High	20MHz +5MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	25RB/ 0RB Offset
		39683 to 41373	39800 to 41490	Low, Middle, High	5MHz +20MHz	QPSK,16QAM, 64QAM,256 QAM	25RB/ 0RB Offset	100RB/ 0RB Offset



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A	OCCUPIED BANDWIDTH	39750 to 41292	39948 to 41490	Low, Middle, High	20MHz +20MHz	QPSK, 16QAM, 64QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	39750 to 41292	39948 to 41490	Low	20MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM QPSK,16QAM, 64QAM,256 QAM QPSK,16QAM, 64QAM,256 QAM	1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
				High	20MHz+20MHz		1RB/ 0RB Offset	1RB/ 99RB Offset
							1RB/ 99RB Offset	1RB/ 0RB Offset
							100RB/ 0RB Offset	100RB/ 0RB Offset
A	CONDUCTED EMISSION	39750 to 41292	39948 to 41490	Low, Middle, High	20MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	RADIATED EMISSION	39750 to 41341	39921 to 41512	Middle	20MHz+15MHz	QPSK,	1RB/ 99RB Offset	1RB/ 0RB Offset
		39728 to 41319	39899 to 41490	Middle,	15MHz+20MHz	QPSK,	1RB/ 74RB Offset	1RB/ 0RB Offset
		39750 to 41391	39894 to 41535	Middle	20MHz+10MHz	QPSK,	1RB/ 99RB Offset	1RB/ 0RB Offset
		39705 to 41346	39849 to 41490	Middle	10MHz+20MHz	QPSK,	1RB/ 49RB Offset	1RB/ 0RB Offset
		39725 to 41365	39875 to 41515	Middle,	15MHz +15MHz	QPSK,	1RB/ 74RB Offset	1RB/ 0RB Offset
		39725 to 41417	39845 to 41537	Middle	15MHz +10MHz	QPSK,	1RB / 74RB Offset	1RB / 0RB Offset
		39703 to 41395	39823 to 41515	Middle	10MHz +15MHz	QPSK,	1RB/ 49RB Offset	1RB/ 0RB Offset
		39750 to 41440	39867 to 41557	Middle,	20MHz +5MHz	QPSK,	1RB/ 99RB Offset	1RB/ 0RB Offset
		39683 to 41373	39800 to 41490	Low, Middle, High	5MHz +20MHz	QPSK,	1RB/ 24RB Offset	1RB/ 0RB Offset
		39750 to 41341	39921 to 41512	Middle	20MHz+15MHz	QPSK,	1RB / 99RB Offset	1RB/ 0RB Offset
		39750 to 41292	39948 to 41490	Middle	20MHz+20MHz	QPSK,	1RB / 99RB Offset	1RB/ 0RB Offset

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

LTE BAND CA_42C MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE PCC CHANNEL	AVAILABLE SCC CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE(PCC)	MODE(SCC)
A	EIRP	42190 to 42841	42361 to 43012	Low, Middle, High	20MHz+15MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		42168 to 42819	42339 to 42990	Low, Middle, High	15MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 74RB Offset	1RB/ 0RB Offset
		42190 to 42891	42334 to 43035	Low, Middle, High	20MHz+10MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		42145 to 42846	42289 to 42990	Low, Middle, High	10MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 49RB Offset	1RB/ 0RB Offset
		42190 to 42940	42307 to 43057	Low, Middle, High	20MHz +5MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
		42123 to 42873	42240 to 42990	Low, Middle, High	5MHz +20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB / 24RB Offset	1RB / 0RB Offset
		42190 to 42792	42388 to 42990	Low, Middle, High	20MHz +20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB/ 99RB Offset	1RB/ 0RB Offset
A	OCCUPIED BANDWIDTH	42190 to 42841	42361 to 43012	Low, Middle, High	20MHz+15MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	75RB/ 0RB Offset
		42168 to 42819	42339 to 42990	Low, Middle, High	15MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	75RB/ 0RB Offset	100RB/ 0RB Offset
		42190 to 42891	42334 to 43035	Low, Middle, High	20MHz+10MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	50RB/ 0RB Offset
		42145 to 42846	42289 to 42990	Low, Middle, High	10MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	50RB/ 0RB Offset	100RB/ 0RB Offset
		42190 to 42940	42307 to 43057	Low, Middle, High	20MHz +5MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	50RB/ 0RB Offset
		42123 to 42873	42240 to 42990	Low, Middle, High	5MHz +20MHz	QPSK,16QAM, 64QAM,256 QAM	50RB/ 0RB Offset	100RB/ 0RB Offset
		42190 to 42792	42388 to 42990	Low, Middle, High	20MHz +20MHz	QPSK,16QAM, 64QAM,256 QAM	100RB/ 0RB Offset	100RB/ 0RB Offset
A	BAND EDGE	42190 to 42792	Low	20MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM QPSK,16QAM, 64QAM,256 QAM	1RB/ 0RB Offset	1RB/ 99RB Offset	
						1RB/ 99RB Offset	1RB/ 0RB Offset	
						100RB/ 0RB Offset	100RB/ 0RB Offset	
			High	20MHz+20MHz		1RB/ 0RB Offset	1RB/ 99RB Offset	
						1RB/ 99RB Offset	1RB/ 0RB Offset	
						100RB/ 0RB Offset	100RB/ 0RB Offset	
A	CONDUCTED EMISSION	42190 to 42792	42388 to 42990	Low, Middle, High	20MHz+20MHz	QPSK,16QAM, 64QAM,256 QAM	1RB / 99RB Offset 1RB / 0RB Offset	1RB/ 0RB Offset



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A	RADIATED EMISSION	42190 to 42841	42361 to 43012	Middle	20MHz+15MHz	QPSK,	1RB/ 99RB Offset	1RB/ 0RB Offset
		42168 to 42819	42339 to 42990	Low, Middle, High,	15MHz+20MHz	QPSK,	1RB/ 74RB Offset	1RB/ 0RB Offset
		42190 to 42891	42334 to 43035	Middle	20MHz+10MHz	QPSK,	1RB/ 99RB Offset	1RB/ 0RB Offset
		42145 to 42846	42289 to 42990	Middle	10MHz+20MHz	QPSK,	1RB/ 49RB Offset	1RB/ 0RB Offset
		42190 to 42940	42307 to 43057	Middle,	20MHz +5MHz	QPSK,	1RB/ 99RB Offset	1RB/ 0RB Offset
		42123 to 42873	42240 to 42990	Middle	5MHz +20MHz	QPSK,	1RB/ 24RB Offset	1RB/ 0RB Offset
		42190 to 42792	42388 to 42990	Middle,	20MHz+20MHz	QPSK,	1RB / 99RB Offset 1RB / 0RB Offset	1RB/ 0RB Offset

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

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC12V By Adapter	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 9V/12V/14V By DC Supply	--
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC12V By Adapter	--
BAND EDGE	23deg. C, 70%RH	DC 12V By Adapter	--
CONDUCTED EMISSION	23deg. C, 70%RH	DC12V By Adapter	--
RADIATED EMISSION	23deg. C, 70%RH	DC12V By Adapter	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC12V By Adapter	--



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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 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

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

According to the specific rule Part 27.50 (k)(3) Mobile devices are limited to 1Watt (30 dBm) EIRP, Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

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

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

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

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

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

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

CONDUCTED POWER MEASUREMENT:

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

3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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

3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

LTE Band CA_7C

MAX Power

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	22.08	25.70	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	21.42	25.04	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	21.38	25.00	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	20.78	24.40	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	1RB#0-0RB#0	21.32	24.94	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	19.66	23.28	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	21.32	24.94	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	19.75	23.37	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	21.47	25.09	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	19.88	23.50	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	20.60	24.22	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	18.92	22.54	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	20.50	24.12	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	18.82	22.44	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	20.66	24.28	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	18.93	22.55	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	19.58	23.20	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	18.90	22.52	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	19.67	23.29	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	18.61	22.23	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	19.84	23.46	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	18.91	22.53	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	1RB#0-0RB#0	16.60	20.22	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	50RB#0-100RB#0	16.56	20.18	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	1RB#0-0RB#0	16.43	20.05	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	17.02	20.64	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	1RB#0-0RB#0	16.68	20.30	33	PASS



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7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	50RB#0-100RB#0	16.77	20.39	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	21.79	25.41	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	19.77	23.39	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	21.68	25.30	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	19.73	23.35	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	22.08	25.70	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	19.90	23.52	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	21.06	24.68	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	18.62	22.24	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	21.36	24.98	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	18.87	22.49	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	21.38	25.00	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	18.88	22.50	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	20.14	23.76	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	18.79	22.41	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	20.18	23.80	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	19.10	22.72	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	20.59	24.21	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	19.00	22.62	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	1RB#0-0RB#0	17.11	20.73	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	75RB#0-50RB#0	16.75	20.37	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	1RB#0-0RB#0	16.93	20.55	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	16.76	20.38	33	PASS



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7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	1RB#0-0RB#0	17.04	20.66	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	75RB#0-50RB#0	17.02	20.64	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	21.64	25.26	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	19.72	23.34	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	21.79	25.41	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	19.83	23.45	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	21.72	25.34	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	19.94	23.56	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	21.02	24.64	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	18.68	22.30	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	20.86	24.48	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	18.65	22.27	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	1RB#0-0RB#0	20.90	24.52	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	18.99	22.61	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	1RB#0-0RB#0	19.84	23.46	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	18.68	22.30	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	1RB#0-0RB#0	19.83	23.45	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	18.94	22.56	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	1RB#0-0RB#0	20.11	23.73	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	18.85	22.47	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	20825-20975	1RB#0-0RB#0	16.75	20.37	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	20825-20975	75RB#0-75RB#0	16.64	20.26	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	1RB#0-0RB#0	16.94	20.56	33	PASS



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7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	75RB#0-75RB#0	16.97	20.59	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21225-21375	1RB#0-0RB#0	16.85	20.47	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21225-21375	75RB#0-75RB#0	16.97	20.59	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	1RB#0-0RB#0	21.63	25.25	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	19.60	23.22	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	1RB#0-0RB#0	21.59	25.21	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	19.89	23.51	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	1RB#0-0RB#0	21.85	25.47	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	19.95	23.57	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	1RB#0-0RB#0	20.97	24.59	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	18.60	22.22	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	1RB#0-0RB#0	20.98	24.60	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	18.79	22.41	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	1RB#0-0RB#0	21.07	24.69	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	18.94	22.56	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	1RB#0-0RB#0	19.98	23.60	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	18.79	22.41	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	1RB#0-0RB#0	19.89	23.51	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	18.75	22.37	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	1RB#0-0RB#0	19.88	23.50	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	18.97	22.59	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	20828-20999	1RB#0-0RB#0	16.93	20.55	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	20828-20999	75RB#0-100RB#0	16.77	20.39	33	PASS



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7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	1RB#0-0RB#0	16.77	20.39	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	75RB#0-100RB#0	16.98	20.60	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21179-21350	1RB#0-0RB#0	16.89	20.51	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21179-21350	75RB#0-100RB#0	17.01	20.63	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	19.80	23.42	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	1RB#0-0RB#0	21.32	24.94	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	19.77	23.39	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	1RB#0-0RB#0	21.36	24.98	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	19.86	23.48	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	1RB#0-0RB#0	21.46	25.08	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	18.53	22.15	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	1RB#0-0RB#0	20.69	24.31	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	18.80	22.42	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	1RB#0-0RB#0	20.84	24.46	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	18.92	22.54	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	1RB#0-0RB#0	20.81	24.43	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	18.75	22.37	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	1RB#0-0RB#0	19.73	23.35	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	18.70	22.32	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	1RB#0-0RB#0	19.67	23.29	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	18.90	22.52	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	1RB#0-0RB#0	19.75	23.37	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	20850-20994	100RB#0-50RB#0	16.87	20.49	33	PASS



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Test Report No.: PSU-NQN2502170113RF05

7-7	20MHz-10MHz	256QAM-256QAM	20850-20994	1RB#0-0RB#0	16.83	20.45	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	100RB#0-50RB#0	16.77	20.39	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	1RB#0-0RB#0	16.45	20.07	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21251-21395	100RB#0-50RB#0	16.72	20.34	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21251-21395	1RB#0-0RB#0	16.86	20.48	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	19.66	23.28	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	1RB#0-0RB#0	21.32	24.94	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	19.78	23.40	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#0-0RB#0	21.48	25.10	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	19.80	23.42	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	1RB#0-0RB#0	21.56	25.18	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	18.40	22.02	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	1RB#0-0RB#0	20.66	24.28	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	18.77	22.39	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#0-0RB#0	20.57	24.19	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	18.98	22.60	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	1RB#0-0RB#0	20.76	24.38	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	18.84	22.46	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	1RB#0-0RB#0	19.77	23.39	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	19.01	22.63	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	1RB#0-0RB#0	19.63	23.25	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	18.99	22.61	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	1RB#0-0RB#0	19.70	23.32	33	PASS

7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	100RB#0-75RB#0	16.63	20.25	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	1RB#0-0RB#0	16.67	20.29	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	100RB#0-75RB#0	16.80	20.42	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	1RB#0-0RB#0	16.70	20.32	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	100RB#0-75RB#0	16.92	20.54	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	1RB#0-0RB#0	16.81	20.43	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	19.59	23.21	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#0-0RB#0	21.40	25.02	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	19.80	23.42	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#0-0RB#0	21.27	24.89	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	19.71	23.33	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	21.42	25.04	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	18.72	22.34	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	20.78	24.40	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	18.80	22.42	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	1RB#0-0RB#0	20.58	24.20	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	18.96	22.58	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	20.69	24.31	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	18.50	22.12	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	19.70	23.32	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	18.72	22.34	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	19.66	23.28	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	18.99	22.61	33	PASS



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7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	19.77	23.39	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	16.53	20.15	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	1RB#0-0RB#0	16.77	20.39	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	16.67	20.29	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	1RB#0-0RB#0	16.70	20.32	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	16.64	20.26	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	1RB#0-0RB#0	16.65	20.27	33	PASS

LTE Band CA_38C

MAX Power

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	21.80	24.73	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	21.65	24.58	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	21.19	24.12	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	20.98	23.91	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	21.80	24.73	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	19.87	22.80	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	21.79	24.72	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	19.87	22.80	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	21.76	24.69	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	20.02	22.95	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	21.19	24.12	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	18.97	21.90	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	21.18	24.11	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	19.03	21.96	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	20.97	23.90	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	18.99	21.92	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	20.02	22.95	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	18.81	21.74	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	19.97	22.90	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	18.93	21.86	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	20.04	22.97	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	18.99	21.92	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	1RB#0-0RB#0	17.33	20.26	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	17.22	20.15	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	1RB#0-0RB#0	17.01	19.94	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	17.15	20.08	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	1RB#0-0RB#0	17.23	20.16	33	PASS



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38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	17.10	20.03	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	19.82	22.75	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	21.50	24.43	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	19.94	22.87	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	21.51	24.44	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	20.02	22.95	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	21.65	24.58	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	18.90	21.83	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	20.98	23.91	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	18.95	21.88	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	20.80	23.73	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	18.94	21.87	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	20.86	23.79	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	18.88	21.81	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	19.83	22.76	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	18.96	21.89	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	19.79	22.72	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	18.83	21.76	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	19.92	22.85	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	17.24	20.17	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	16.91	19.84	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	17.26	20.19	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	17.02	19.95	33	PASS



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Test Report No.: PSU-NQN2502170113RF05

38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	17.18	20.11	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	16.87	19.80	33	PASS

LTE Band CA_41C

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	1RB#0-0RB#0	24.86	28.48	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	1RB#0-0RB#0	24.29	27.91	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
41-41	20MHz-5MHz	256QAM-256QAM	41440-41557	1RB#0-0RB#0	24.82	28.44	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
41-41	20MHz-20MHz	256QAM-256QAM	39750-39948	1RB#0-0RB#0	24.67	28.29	33	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	1RB#0-0RB#0	24.24	27.86	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	50RB#0-75RB#0	22.55	26.17	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	1RB#0-0RB#0	24.10	27.72	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	50RB#0-75RB#0	22.48	26.10	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	1RB#0-0RB#0	23.54	27.16	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	50RB#0-75RB#0	22.35	25.97	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	1RB#0-0RB#0	23.20	26.82	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	50RB#0-75RB#0	21.45	25.07	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	1RB#0-0RB#0	23.08	26.70	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	50RB#0-75RB#0	21.38	25.00	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	1RB#0-0RB#0	22.86	26.48	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	50RB#0-75RB#0	21.34	24.96	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	1RB#0-0RB#0	22.64	26.26	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	50RB#0-75RB#0	21.41	25.03	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	1RB#0-0RB#0	22.55	26.17	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	50RB#0-75RB#0	21.35	24.97	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	1RB#0-0RB#0	22.16	25.78	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	50RB#0-75RB#0	21.44	25.06	33	PASS
41-41	10MHz-15MHz	256QAM-256QAM	39703-39823	1RB#0-0RB#0	24.70	28.32	33	PASS
41-41	10MHz-15MHz	256QAM-256QAM	39703-39823	50RB#0-75RB#0	23.43	27.05	33	PASS
41-41	10MHz-15MHz	256QAM-256QAM	40549-40669	1RB#0-0RB#0	23.34	26.96	33	PASS
41-41	10MHz-15MHz	256QAM-256QAM	40549-40669	50RB#0-75RB#0	22.50	26.12	33	PASS
41-41	10MHz-15MHz	256QAM-256QAM	41395-41515	1RB#0-0RB#0	23.24	26.86	33	PASS



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41-41	10MHz-15MHz	256QAM-256QAM	41395-41515	50RB#0-75RB#0	22.15	25.77	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	1RB#0-0RB#0	24.34	27.96	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	50RB#0-100RB#0	22.46	26.08	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	1RB#0-0RB#0	24.44	28.06	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	50RB#0-100RB#0	23.15	26.77	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	1RB#0-0RB#0	24.01	27.63	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	50RB#0-100RB#0	22.37	25.99	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	1RB#0-0RB#0	23.07	26.69	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	50RB#0-100RB#0	21.61	25.23	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	1RB#0-0RB#0	20.77	24.39	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	50RB#0-100RB#0	20.90	24.52	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	41346-41490	1RB#0-0RB#0	22.93	26.55	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	41346-41490	50RB#0-100RB#0	21.45	25.07	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	39705-39849	1RB#0-0RB#0	22.51	26.13	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	39705-39849	50RB#0-100RB#0	21.63	25.25	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	40526-40670	1RB#0-0RB#0	22.65	26.27	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	40526-40670	50RB#0-100RB#0	21.31	24.93	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	41346-41490	1RB#0-0RB#0	22.56	26.18	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	41346-41490	50RB#0-100RB#0	21.47	25.09	33	PASS
41-41	10MHz-20MHz	256QAM-256QAM	39705-39849	1RB#0-0RB#0	24.64	28.26	33	PASS
41-41	10MHz-20MHz	256QAM-256QAM	39705-39849	50RB#0-100RB#0	22.34	25.96	33	PASS
41-41	10MHz-20MHz	256QAM-256QAM	40526-40670	1RB#0-0RB#0	20.57	24.19	33	PASS
41-41	10MHz-20MHz	256QAM-256QAM	40526-40670	50RB#0-100RB#0	22.58	26.20	33	PASS



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41-41	10MHz-20MHz	256QAM-256QAM	41346-41490	1RB#0-0RB#0	21.19	24.81	33	PASS
41-41	10MHz-20MHz	256QAM-256QAM	41346-41490	50RB#0-100RB#0	22.18	25.80	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	39725-39845	1RB#0-0RB#0	21.48	25.10	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	39725-39845	75RB#0-50RB#0	22.63	26.25	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	40571-40691	1RB#0-0RB#0	19.63	23.25	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	40571-40691	75RB#0-50RB#0	22.42	26.04	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	41417-41537	1RB#0-0RB#0	24.41	28.03	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	41417-41537	75RB#0-50RB#0	22.43	26.05	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	39725-39845	1RB#0-0RB#0	23.64	27.26	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	39725-39845	75RB#0-50RB#0	21.49	25.11	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	40571-40691	1RB#0-0RB#0	23.42	27.04	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	40571-40691	75RB#0-50RB#0	21.48	25.10	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	41417-41537	1RB#0-0RB#0	23.26	26.88	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	41417-41537	75RB#0-50RB#0	21.56	25.18	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	39725-39845	1RB#0-0RB#0	22.96	26.58	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	39725-39845	75RB#0-50RB#0	21.50	25.12	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	40571-40691	1RB#0-0RB#0	22.86	26.48	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	40571-40691	75RB#0-50RB#0	21.42	25.04	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	41417-41537	1RB#0-0RB#0	22.53	26.15	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	41417-41537	75RB#0-50RB#0	21.44	25.06	33	PASS
41-41	15MHz-10MHz	256QAM-256QAM	39725-39845	1RB#0-0RB#0	20.61	24.23	33	PASS
41-41	15MHz-10MHz	256QAM-256QAM	39725-39845	75RB#0-50RB#0	19.86	23.48	33	PASS
41-41	15MHz-10MHz	256QAM-256QAM	40571-40691	1RB#0-0RB#0	20.63	24.25	33	PASS



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41-41	15MHz-10MHz	256QAM-256QAM	40571-40691	75RB#0-50RB#0	19.78	23.40	33	PASS
41-41	15MHz-10MHz	256QAM-256QAM	41417-41537	1RB#0-0RB#0	20.37	23.99	33	PASS
41-41	15MHz-10MHz	256QAM-256QAM	41417-41537	75RB#0-50RB#0	19.49	23.11	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	39725-39875	1RB#0-0RB#0	24.39	28.01	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	39725-39875	75RB#0-75RB#0	22.57	26.19	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	40545-40695	1RB#0-0RB#0	24.38	28.00	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	40545-40695	75RB#0-75RB#0	22.46	26.08	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	41365-41515	1RB#0-0RB#0	24.13	27.75	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	41365-41515	75RB#0-75RB#0	22.59	26.21	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	39725-39875	1RB#0-0RB#0	23.46	27.08	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	39725-39875	75RB#0-75RB#0	21.48	25.10	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	1RB#0-0RB#0	23.13	26.75	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	75RB#0-75RB#0	21.52	25.14	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	41365-41515	1RB#0-0RB#0	23.15	26.77	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	41365-41515	75RB#0-75RB#0	21.44	25.06	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	39725-39875	1RB#0-0RB#0	22.76	26.38	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	39725-39875	75RB#0-75RB#0	21.62	25.24	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	1RB#0-0RB#0	22.58	26.20	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	75RB#0-75RB#0	21.50	25.12	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	41365-41515	1RB#0-0RB#0	22.47	26.09	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	41365-41515	75RB#0-75RB#0	21.50	25.12	33	PASS
41-41	15MHz-15MHz	256QAM-256QAM	39725-39875	1RB#0-0RB#0	21.55	25.17	33	PASS
41-41	15MHz-15MHz	256QAM-256QAM	39725-39875	75RB#0-75RB#0	20.47	24.09	33	PASS



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41-41	15MHz-15MHz	256QAM-256QAM	40545-40695	1RB#0-0RB#0	21.55	25.17	33	PASS
41-41	15MHz-15MHz	256QAM-256QAM	40545-40695	75RB#0-75RB#0	20.54	24.16	33	PASS
41-41	15MHz-15MHz	256QAM-256QAM	41365-41515	1RB#0-0RB#0	21.70	25.32	33	PASS
41-41	15MHz-15MHz	256QAM-256QAM	41365-41515	75RB#0-75RB#0	20.73	24.35	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	39728-39899	1RB#0-0RB#0	24.41	28.03	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	39728-39899	75RB#0-100RB#0	22.68	26.30	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	1RB#0-0RB#0	24.86	28.48	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	75RB#0-100RB#0	22.80	26.42	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	41319-41490	1RB#0-0RB#0	24.23	27.85	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	41319-41490	75RB#0-100RB#0	23.37	26.99	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	39728-39899	1RB#0-0RB#0	23.34	26.96	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	39728-39899	75RB#0-100RB#0	21.63	25.25	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	1RB#0-0RB#0	20.95	24.57	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	75RB#0-100RB#0	20.27	23.89	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	41319-41490	1RB#0-0RB#0	23.14	26.76	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	41319-41490	75RB#0-100RB#0	22.41	26.03	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	39728-39899	1RB#0-0RB#0	22.64	26.26	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	39728-39899	75RB#0-100RB#0	21.74	25.36	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	1RB#0-0RB#0	22.87	26.49	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	75RB#0-100RB#0	20.84	24.46	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	41319-41490	1RB#0-0RB#0	22.63	26.25	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	41319-41490	75RB#0-100RB#0	21.38	25.00	33	PASS
41-41	15MHz-20MHz	256QAM-256QAM	39728-39899	1RB#0-0RB#0	21.82	25.44	33	PASS



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41-41	15MHz-20MHz	256QAM-256QAM	39728-39899	75RB#0-100RB#0	20.61	24.23	33	PASS
41-41	15MHz-20MHz	256QAM-256QAM	40523-40694	1RB#0-0RB#0	21.74	25.36	33	PASS
41-41	15MHz-20MHz	256QAM-256QAM	40523-40694	75RB#0-100RB#0	20.12	23.74	33	PASS
41-41	15MHz-20MHz	256QAM-256QAM	41319-41490	1RB#0-0RB#0	20.57	24.19	33	PASS
41-41	15MHz-20MHz	256QAM-256QAM	41319-41490	75RB#0-100RB#0	20.04	23.66	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	100RB#0-75RB#0	22.49	26.11	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	1RB#0-0RB#0	24.14	27.76	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	100RB#0-75RB#0	22.50	26.12	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	1RB#0-0RB#0	24.09	27.71	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	100RB#0-75RB#0	22.36	25.98	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	1RB#0-0RB#0	24.11	27.73	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	100RB#0-75RB#0	21.51	25.13	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	1RB#0-0RB#0	23.21	26.83	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	100RB#0-75RB#0	21.62	25.24	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	1RB#0-0RB#0	22.97	26.59	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	100RB#0-75RB#0	21.54	25.16	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	1RB#0-0RB#0	23.13	26.75	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	100RB#0-75RB#0	21.48	25.10	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	1RB#0-0RB#0	22.45	26.07	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	100RB#0-75RB#0	21.46	25.08	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	1RB#0-0RB#0	22.35	25.97	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	41341-41512	100RB#0-75RB#0	21.41	25.03	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	41341-41512	1RB#0-0RB#0	22.50	26.12	33	PASS



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41-41	20MHz-15MHz	256QAM-256QAM	39750-39921	100RB#0-75RB#0	20.82	24.44	33	PASS
41-41	20MHz-15MHz	256QAM-256QAM	39750-39921	1RB#0-0RB#0	24.64	28.26	33	PASS
41-41	20MHz-15MHz	256QAM-256QAM	40546-40717	100RB#0-75RB#0	21.70	25.32	33	PASS
41-41	20MHz-15MHz	256QAM-256QAM	40546-40717	1RB#0-0RB#0	24.48	28.10	33	PASS
41-41	20MHz-15MHz	256QAM-256QAM	41341-41512	100RB#0-75RB#0	24.66	28.28	33	PASS
41-41	20MHz-15MHz	256QAM-256QAM	41341-41512	1RB#0-0RB#0	24.54	28.16	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	100RB#0-100RB#0	22.53	26.15	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	1RB#0-0RB#0	24.29	27.91	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	22.55	26.17	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	1RB#0-0RB#0	24.15	27.77	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	100RB#0-100RB#0	22.50	26.12	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	1RB#0-0RB#0	23.52	27.14	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	100RB#0-100RB#0	21.54	25.16	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	1RB#0-0RB#0	23.15	26.77	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	21.61	25.23	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	1RB#0-0RB#0	23.02	26.64	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	100RB#0-100RB#0	21.58	25.20	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	1RB#0-0RB#0	23.11	26.73	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	100RB#0-100RB#0	21.39	25.01	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	1RB#0-0RB#0	22.35	25.97	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	21.54	25.16	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	1RB#0-0RB#0	22.52	26.14	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	100RB#0-100RB#0	21.50	25.12	33	PASS



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41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	1RB#0-0RB#0	22.53	26.15	33	PASS
41-41	20MHz-20MHz	256QAM-256QAM	39750-39948	100RB#0-100RB#0	22.54	26.16	33	PASS
41-41	20MHz-20MHz	256QAM-256QAM	39750-39948	1RB#0-0RB#0	24.67	28.29	33	PASS
41-41	20MHz-20MHz	256QAM-256QAM	40521-40719	100RB#0-100RB#0	22.42	26.04	33	PASS
41-41	20MHz-20MHz	256QAM-256QAM	40521-40719	1RB#0-0RB#0	24.49	28.11	33	PASS
41-41	20MHz-20MHz	256QAM-256QAM	41292-41490	100RB#0-100RB#0	22.62	26.24	33	PASS
41-41	20MHz-20MHz	256QAM-256QAM	41292-41490	1RB#0-0RB#0	24.65	28.27	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	39750-39867	100RB#0-25RB#0	22.59	26.21	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	39750-39867	1RB#0-0RB#0	24.54	28.16	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	40595-40712	100RB#0-25RB#0	22.57	26.19	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	40595-40712	1RB#0-0RB#0	21.04	24.66	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	41440-41557	100RB#0-25RB#0	22.62	26.24	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	41440-41557	1RB#0-0RB#0	22.92	26.54	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	39750-39867	100RB#0-25RB#0	21.58	25.20	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	39750-39867	1RB#0-0RB#0	23.56	27.18	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	40595-40712	100RB#0-25RB#0	21.59	25.21	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	40595-40712	1RB#0-0RB#0	23.44	27.06	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	41440-41557	100RB#0-25RB#0	21.54	25.16	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	41440-41557	1RB#0-0RB#0	23.36	26.98	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	39750-39867	100RB#0-25RB#0	21.63	25.25	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	39750-39867	1RB#0-0RB#0	22.79	26.41	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	100RB#0-25RB#0	21.51	25.13	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	1RB#0-0RB#0	22.69	26.31	33	PASS



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Test Report No.: PSU-NQN2502170113RF05

41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	100RB#0-25RB#0	21.65	25.27	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	1RB#0-0RB#0	22.70	26.32	33	PASS
41-41	20MHz-5MHz	256QAM-256QAM	39750-39867	100RB#0-25RB#0	21.68	25.30	33	PASS
41-41	20MHz-5MHz	256QAM-256QAM	39750-39867	1RB#0-0RB#0	22.39	26.01	33	PASS
41-41	20MHz-5MHz	256QAM-256QAM	40595-40712	100RB#0-25RB#0	21.49	25.11	33	PASS
41-41	20MHz-5MHz	256QAM-256QAM	40595-40712	1RB#0-0RB#0	24.80	28.42	33	PASS
41-41	20MHz-5MHz	256QAM-256QAM	41440-41557	100RB#0-25RB#0	20.66	24.28	33	PASS
41-41	20MHz-5MHz	256QAM-256QAM	41440-41557	1RB#0-0RB#0	24.82	28.44	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	1RB#0-0RB#0	24.25	27.87	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	25RB#0-100RB#0	22.39	26.01	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	1RB#0-0RB#0	24.09	27.71	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	25RB#0-100RB#0	22.33	25.95	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	1RB#0-0RB#0	23.88	27.50	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	25RB#0-100RB#0	22.43	26.05	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	1RB#0-0RB#0	23.00	26.62	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	25RB#0-100RB#0	21.44	25.06	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	1RB#0-0RB#0	23.03	26.65	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	25RB#0-100RB#0	21.40	25.02	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	1RB#0-0RB#0	22.87	26.49	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	25RB#0-100RB#0	21.44	25.06	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	1RB#0-0RB#0	22.38	26.00	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	25RB#0-100RB#0	21.28	24.90	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	1RB#0-0RB#0	22.50	26.12	33	PASS



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Test Report No.: PSU-NQN2502170113RF05

41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	25RB#0-100RB#0	21.49	25.11	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	1RB#0-0RB#0	22.20	25.82	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	25RB#0-100RB#0	21.34	24.96	33	PASS
41-41	5MHz-20MHz	256QAM-256QAM	39683-39800	1RB#0-0RB#0	24.74	28.36	33	PASS
41-41	5MHz-20MHz	256QAM-256QAM	39683-39800	25RB#0-100RB#0	20.55	24.17	33	PASS
41-41	5MHz-20MHz	256QAM-256QAM	40528-40645	1RB#0-0RB#0	24.46	28.08	33	PASS
41-41	5MHz-20MHz	256QAM-256QAM	40528-40645	25RB#0-100RB#0	20.26	23.88	33	PASS
41-41	5MHz-20MHz	256QAM-256QAM	41373-41490	1RB#0-0RB#0	24.41	28.03	33	PASS
41-41	5MHz-20MHz	256QAM-256QAM	41373-41490	25RB#0-100RB#0	20.40	24.02	33	PASS



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Test Report No.: PSU-NQN2502170113RF05

LTE Band CA_42C

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
42-42	20MHz-5MHz	QPSK-QPSK	42190-42307	1RB#0-0RB#0	21.97	26.79	30	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
42-42	20MHz-20MHz	QPSK-QPSK	42190-42388	1RB#0-0RB#0	21.67	26.49	30	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
42-42	20MHz-5MHz	16QAM-16QAM	42190-42307	1RB#0-0RB#0	21.33	26.15	30	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
42-42	20MHz-20MHz	16QAM-16QAM	42190-42388	1RB#0-0RB#0	20.90	25.72	30	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15



Test Report No.: PSU-NQN2502170113RF05

42-42	10MHz-20MHz	QPSK-QPSK	42145-42289	1RB#0-0RB#0	21.48	26.30	30	PASS
42-42	10MHz-20MHz	QPSK-QPSK	42145-42289	50RB#0-100RB#0	19.87	24.69	30	PASS
42-42	10MHz-20MHz	QPSK-QPSK	42496-42640	1RB#0-0RB#0	21.14	25.96	30	PASS
42-42	10MHz-20MHz	QPSK-QPSK	42496-42640	50RB#0-100RB#0	19.75	24.57	30	PASS
42-42	10MHz-20MHz	QPSK-QPSK	42846-42990	1RB#0-0RB#0	21.38	26.20	30	PASS
42-42	10MHz-20MHz	QPSK-QPSK	42846-42990	50RB#0-100RB#0	19.71	24.53	30	PASS
42-42	10MHz-20MHz	16QAM-16QAM	42145-42289	1RB#0-0RB#0	20.87	25.69	30	PASS
42-42	10MHz-20MHz	16QAM-16QAM	42145-42289	50RB#0-100RB#0	18.91	23.73	30	PASS
42-42	10MHz-20MHz	16QAM-16QAM	42496-42640	1RB#0-0RB#0	20.72	25.54	30	PASS
42-42	10MHz-20MHz	16QAM-16QAM	42496-42640	50RB#0-100RB#0	18.78	23.60	30	PASS
42-42	10MHz-20MHz	16QAM-16QAM	42846-42990	1RB#0-0RB#0	20.63	25.45	30	PASS
42-42	10MHz-20MHz	16QAM-16QAM	42846-42990	50RB#0-100RB#0	18.86	23.68	30	PASS
42-42	10MHz-20MHz	64QAM-64QAM	42145-42289	1RB#0-0RB#0	19.73	24.55	30	PASS
42-42	10MHz-20MHz	64QAM-64QAM	42145-42289	50RB#0-100RB#0	18.89	23.71	30	PASS
42-42	10MHz-20MHz	64QAM-64QAM	42496-42640	1RB#0-0RB#0	19.53	24.35	30	PASS
42-42	10MHz-20MHz	64QAM-64QAM	42496-42640	50RB#0-100RB#0	18.64	23.46	30	PASS
42-42	10MHz-20MHz	64QAM-64QAM	42846-42990	1RB#0-0RB#0	19.64	24.46	30	PASS
42-42	10MHz-20MHz	64QAM-64QAM	42846-42990	50RB#0-100RB#0	18.90	23.72	30	PASS
42-42	10MHz-20MHz	256QAM-256QAM	42145-42289	1RB#0-0RB#0	16.80	21.62	30	PASS
42-42	10MHz-20MHz	256QAM-256QAM	42145-42289	50RB#0-100RB#0	17.02	21.84	30	PASS
42-42	10MHz-20MHz	256QAM-256QAM	42496-42640	1RB#0-0RB#0	16.50	21.32	30	PASS
42-42	10MHz-20MHz	256QAM-256QAM	42496-42640	50RB#0-100RB#0	16.71	21.53	30	PASS
42-42	10MHz-20MHz	256QAM-256QAM	42846-42990	1RB#0-0RB#0	16.62	21.44	30	PASS



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Test Report No.: PSU-NQN2502170113RF05

42-42	10MHz-20MHz	256QAM-256QAM	42846-42990	50RB#0-100RB#0	17.03	21.85	30	PASS
42-42	15MHz-20MHz	QPSK-QPSK	42168-42339	1RB#0-0RB#0	21.80	26.62	30	PASS
42-42	15MHz-20MHz	QPSK-QPSK	42168-42339	75RB#0-100RB#0	19.95	24.77	30	PASS
42-42	15MHz-20MHz	QPSK-QPSK	42493-42664	1RB#0-0RB#0	21.51	26.33	30	PASS
42-42	15MHz-20MHz	QPSK-QPSK	42493-42664	75RB#0-100RB#0	19.74	24.56	30	PASS
42-42	15MHz-20MHz	QPSK-QPSK	42819-42990	1RB#0-0RB#0	21.46	26.28	30	PASS
42-42	15MHz-20MHz	QPSK-QPSK	42819-42990	75RB#0-100RB#0	19.92	24.74	30	PASS
42-42	15MHz-20MHz	16QAM-16QAM	42168-42339	1RB#0-0RB#0	21.23	26.05	30	PASS
42-42	15MHz-20MHz	16QAM-16QAM	42168-42339	75RB#0-100RB#0	19.02	23.84	30	PASS
42-42	15MHz-20MHz	16QAM-16QAM	42493-42664	1RB#0-0RB#0	20.97	25.79	30	PASS
42-42	15MHz-20MHz	16QAM-16QAM	42493-42664	75RB#0-100RB#0	18.72	23.54	30	PASS
42-42	15MHz-20MHz	16QAM-16QAM	42819-42990	1RB#0-0RB#0	20.95	25.77	30	PASS
42-42	15MHz-20MHz	16QAM-16QAM	42819-42990	75RB#0-100RB#0	18.83	23.65	30	PASS
42-42	15MHz-20MHz	64QAM-64QAM	42168-42339	1RB#0-0RB#0	20.17	24.99	30	PASS
42-42	15MHz-20MHz	64QAM-64QAM	42168-42339	75RB#0-100RB#0	18.97	23.79	30	PASS
42-42	15MHz-20MHz	64QAM-64QAM	42493-42664	1RB#0-0RB#0	19.87	24.69	30	PASS
42-42	15MHz-20MHz	64QAM-64QAM	42493-42664	75RB#0-100RB#0	18.69	23.51	30	PASS
42-42	15MHz-20MHz	64QAM-64QAM	42819-42990	1RB#0-0RB#0	19.79	24.61	30	PASS
42-42	15MHz-20MHz	64QAM-64QAM	42819-42990	75RB#0-100RB#0	18.79	23.61	30	PASS
42-42	15MHz-20MHz	256QAM-256QAM	42168-42339	1RB#0-0RB#0	17.10	21.92	30	PASS
42-42	15MHz-20MHz	256QAM-256QAM	42168-42339	75RB#0-100RB#0	17.08	21.90	30	PASS
42-42	15MHz-20MHz	256QAM-256QAM	42493-42664	1RB#0-0RB#0	16.76	21.58	30	PASS
42-42	15MHz-20MHz	256QAM-256QAM	42493-42664	75RB#0-100RB#0	16.83	21.65	30	PASS



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Test Report No.: PSU-NQN2502170113RF05

42-42	15MHz-20MHz	256QAM-256QAM	42819-42990	1RB#0-0RB#0	16.74	21.56	30	PASS
42-42	15MHz-20MHz	256QAM-256QAM	42819-42990	75RB#0-100RB#0	16.74	21.56	30	PASS
42-42	20MHz-10MHz	QPSK-QPSK	42190-42334	100RB#0-50RB#0	19.98	24.80	30	PASS
42-42	20MHz-10MHz	QPSK-QPSK	42190-42334	1RB#0-0RB#0	21.65	26.47	30	PASS
42-42	20MHz-10MHz	QPSK-QPSK	42541-42685	100RB#0-50RB#0	19.66	24.48	30	PASS
42-42	20MHz-10MHz	QPSK-QPSK	42541-42685	1RB#0-0RB#0	21.22	26.04	30	PASS
42-42	20MHz-10MHz	QPSK-QPSK	42891-43035	100RB#0-50RB#0	19.83	24.65	30	PASS
42-42	20MHz-10MHz	QPSK-QPSK	42891-43035	1RB#0-0RB#0	21.42	26.24	30	PASS
42-42	20MHz-10MHz	16QAM-16QAM	42190-42334	100RB#0-50RB#0	18.96	23.78	30	PASS
42-42	20MHz-10MHz	16QAM-16QAM	42190-42334	1RB#0-0RB#0	20.94	25.76	30	PASS
42-42	20MHz-10MHz	16QAM-16QAM	42541-42685	100RB#0-50RB#0	18.73	23.55	30	PASS
42-42	20MHz-10MHz	16QAM-16QAM	42541-42685	1RB#0-0RB#0	20.74	25.56	30	PASS
42-42	20MHz-10MHz	16QAM-16QAM	42891-43035	100RB#0-50RB#0	19.01	23.83	30	PASS
42-42	20MHz-10MHz	16QAM-16QAM	42891-43035	1RB#0-0RB#0	20.71	25.53	30	PASS
42-42	20MHz-10MHz	64QAM-64QAM	42190-42334	100RB#0-50RB#0	19.11	23.93	30	PASS
42-42	20MHz-10MHz	64QAM-64QAM	42190-42334	1RB#0-0RB#0	19.99	24.81	30	PASS
42-42	20MHz-10MHz	64QAM-64QAM	42541-42685	100RB#0-50RB#0	18.62	23.44	30	PASS
42-42	20MHz-10MHz	64QAM-64QAM	42541-42685	1RB#0-0RB#0	19.64	24.46	30	PASS
42-42	20MHz-10MHz	64QAM-64QAM	42891-43035	100RB#0-50RB#0	18.94	23.76	30	PASS
42-42	20MHz-10MHz	64QAM-64QAM	42891-43035	1RB#0-0RB#0	19.88	24.70	30	PASS
42-42	20MHz-10MHz	256QAM-256QAM	42190-42334	100RB#0-50RB#0	17.05	21.87	30	PASS
42-42	20MHz-10MHz	256QAM-256QAM	42190-42334	1RB#0-0RB#0	16.95	21.77	30	PASS
42-42	20MHz-10MHz	256QAM-256QAM	42541-42685	100RB#0-50RB#0	16.81	21.63	30	PASS



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Test Report No.: PSU-NQN2502170113RF05

42-42	20MHz-10MHz	256QAM-256QAM	42541-42685	1RB#0-0RB#0	16.52	21.34	30	PASS
42-42	20MHz-10MHz	256QAM-256QAM	42891-43035	100RB#0-50RB#0	16.92	21.74	30	PASS
42-42	20MHz-10MHz	256QAM-256QAM	42891-43035	1RB#0-0RB#0	16.66	21.48	30	PASS
42-42	20MHz-15MHz	QPSK-QPSK	42190-42361	100RB#0-75RB#0	19.93	24.75	30	PASS
42-42	20MHz-15MHz	QPSK-QPSK	42190-42361	1RB#0-0RB#0	21.47	26.29	30	PASS
42-42	20MHz-15MHz	QPSK-QPSK	42516-42687	100RB#0-75RB#0	19.77	24.59	30	PASS
42-42	20MHz-15MHz	QPSK-QPSK	42516-42687	1RB#0-0RB#0	21.23	26.05	30	PASS
42-42	20MHz-15MHz	QPSK-QPSK	42841-43012	100RB#0-75RB#0	19.81	24.63	30	PASS
42-42	20MHz-15MHz	QPSK-QPSK	42841-43012	1RB#0-0RB#0	21.49	26.31	30	PASS
42-42	20MHz-15MHz	16QAM-16QAM	42190-42361	100RB#0-75RB#0	18.95	23.77	30	PASS
42-42	20MHz-15MHz	16QAM-16QAM	42190-42361	1RB#0-0RB#0	20.78	25.60	30	PASS
42-42	20MHz-15MHz	16QAM-16QAM	42516-42687	100RB#0-75RB#0	18.89	23.71	30	PASS
42-42	20MHz-15MHz	16QAM-16QAM	42516-42687	1RB#0-0RB#0	20.75	25.57	30	PASS
42-42	20MHz-15MHz	16QAM-16QAM	42841-43012	100RB#0-75RB#0	18.80	23.62	30	PASS
42-42	20MHz-15MHz	16QAM-16QAM	42841-43012	1RB#0-0RB#0	20.86	25.68	30	PASS
42-42	20MHz-15MHz	64QAM-64QAM	42190-42361	100RB#0-75RB#0	19.04	23.86	30	PASS
42-42	20MHz-15MHz	64QAM-64QAM	42190-42361	1RB#0-0RB#0	19.87	24.69	30	PASS
42-42	20MHz-15MHz	64QAM-64QAM	42516-42687	100RB#0-75RB#0	18.80	23.62	30	PASS
42-42	20MHz-15MHz	64QAM-64QAM	42516-42687	1RB#0-0RB#0	19.58	24.40	30	PASS
42-42	20MHz-15MHz	64QAM-64QAM	42841-43012	100RB#0-75RB#0	18.93	23.75	30	PASS
42-42	20MHz-15MHz	64QAM-64QAM	42841-43012	1RB#0-0RB#0	19.66	24.48	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42190-42361	100RB#0-75RB#0	16.85	21.67	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42190-42361	1RB#0-0RB#0	16.81	21.63	30	PASS



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Test Report No.: PSU-NQN2502170113RF05

42-42	20MHz-15MHz	256QAM-256QAM	42516-42687	100RB#0-75RB#0	16.76	21.58	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42516-42687	1RB#0-0RB#0	16.69	21.51	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42841-43012	100RB#0-75RB#0	16.72	21.54	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42841-43012	1RB#0-0RB#0	16.63	21.45	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42190-42388	100RB#0-100RB#0	20.00	24.82	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42190-42388	1RB#0-0RB#0	21.67	26.49	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42491-42689	100RB#0-100RB#0	19.81	24.63	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42491-42689	1RB#0-0RB#0	21.40	26.22	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42792-42990	100RB#0-100RB#0	19.69	24.51	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42792-42990	1RB#0-0RB#0	21.36	26.18	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42190-42388	100RB#0-100RB#0	19.01	23.83	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42190-42388	1RB#0-0RB#0	20.90	25.72	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42491-42689	100RB#0-100RB#0	18.73	23.55	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42491-42689	1RB#0-0RB#0	20.90	25.72	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42792-42990	100RB#0-100RB#0	18.99	23.81	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42792-42990	1RB#0-0RB#0	20.81	25.63	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42190-42388	100RB#0-100RB#0	18.90	23.72	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42190-42388	1RB#0-0RB#0	19.90	24.72	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42491-42689	100RB#0-100RB#0	18.73	23.55	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42491-42689	1RB#0-0RB#0	19.66	24.48	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42792-42990	100RB#0-100RB#0	18.88	23.70	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42792-42990	1RB#0-0RB#0	19.74	24.56	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42190-42388	100RB#0-100RB#0	16.94	21.76	30	PASS



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Test Report No.: PSU-NQN2502170113RF05

42-42	20MHz-20MHz	256QAM-256QAM	42190-42388	1RB#0-0RB#0	16.82	21.64	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42491-42689	100RB#0-100RB#0	16.78	21.60	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42491-42689	1RB#0-0RB#0	16.62	21.44	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42792-42990	100RB#0-100RB#0	16.73	21.55	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42792-42990	1RB#0-0RB#0	16.57	21.39	30	PASS
42-42	20MHz-5MHz	QPSK-QPSK	42190-42307	100RB#0-25RB#0	19.98	24.80	30	PASS
42-42	20MHz-5MHz	QPSK-QPSK	42190-42307	1RB#0-0RB#0	21.97	26.79	30	PASS
42-42	20MHz-5MHz	QPSK-QPSK	42565-42682	100RB#0-25RB#0	19.66	24.48	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42190-42361	1RB#0-0RB#0	16.81	21.63	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42516-42687	100RB#0-75RB#0	16.76	21.58	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42516-42687	1RB#0-0RB#0	16.69	21.51	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42841-43012	100RB#0-75RB#0	16.72	21.54	30	PASS
42-42	20MHz-15MHz	256QAM-256QAM	42841-43012	1RB#0-0RB#0	16.63	21.45	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42190-42388	100RB#0-100RB#0	20.00	24.82	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42190-42388	1RB#0-0RB#0	21.67	26.49	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42491-42689	100RB#0-100RB#0	19.81	24.63	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42491-42689	1RB#0-0RB#0	21.40	26.22	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42792-42990	100RB#0-100RB#0	19.69	24.51	30	PASS
42-42	20MHz-20MHz	QPSK-QPSK	42792-42990	1RB#0-0RB#0	21.36	26.18	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42190-42388	100RB#0-100RB#0	19.01	23.83	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42190-42388	1RB#0-0RB#0	20.90	25.72	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42491-42689	100RB#0-100RB#0	18.73	23.55	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42491-42689	1RB#0-0RB#0	20.90	25.72	30	PASS



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VERITAS

Test Report No.: PSU-NQN2502170113RF05

42-42	20MHz-20MHz	16QAM-16QAM	42792-42990	100RB#0-100RB#0	18.99	23.81	30	PASS
42-42	20MHz-20MHz	16QAM-16QAM	42792-42990	1RB#0-0RB#0	20.81	25.63	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42190-42388	100RB#0-100RB#0	18.90	23.72	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42190-42388	1RB#0-0RB#0	19.90	24.72	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42491-42689	100RB#0-100RB#0	18.73	23.55	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42491-42689	1RB#0-0RB#0	19.66	24.48	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42792-42990	100RB#0-100RB#0	18.88	23.70	30	PASS
42-42	20MHz-20MHz	64QAM-64QAM	42792-42990	1RB#0-0RB#0	19.74	24.56	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42190-42388	100RB#0-100RB#0	16.94	21.76	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42190-42388	1RB#0-0RB#0	16.82	21.64	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42491-42689	100RB#0-100RB#0	16.78	21.60	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42491-42689	1RB#0-0RB#0	16.62	21.44	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42792-42990	100RB#0-100RB#0	16.73	21.55	30	PASS
42-42	20MHz-20MHz	256QAM-256QAM	42792-42990	1RB#0-0RB#0	16.57	21.39	30	PASS
42-42	20MHz-5MHz	QPSK-QPSK	42190-42307	100RB#0-25RB#0	19.98	24.80	30	PASS
42-42	20MHz-5MHz	QPSK-QPSK	42190-42307	1RB#0-0RB#0	21.97	26.79	30	PASS
42-42	20MHz-5MHz	QPSK-QPSK	42565-42682	100RB#0-25RB#0	19.66	24.48	30	PASS
42-42	5MHz-20MHz	16QAM-16QAM	42873-42990	50RB#0-100RB#0	18.19	23.01	30	PASS
42-42	5MHz-20MHz	64QAM-64QAM	42123-42240	1RB#0-0RB#0	19.89	24.71	30	PASS
42-42	5MHz-20MHz	64QAM-64QAM	42123-42240	50RB#0-100RB#0	18.41	23.23	30	PASS
42-42	5MHz-20MHz	64QAM-64QAM	42498-42615	1RB#0-0RB#0	19.66	24.48	30	PASS
42-42	5MHz-20MHz	64QAM-64QAM	42498-42615	50RB#0-100RB#0	18.07	22.89	30	PASS
42-42	5MHz-20MHz	64QAM-64QAM	42873-42990	1RB#0-0RB#0	19.70	24.52	30	PASS



BUREAU
VERITAS

Test Report No.: PSU-NQN2502170113RF05

42-42	5MHz-20MHz	64QAM-64QAM	42873-42990	50RB#0-100RB#0	18.18	23.00	30	PASS
42-42	5MHz-20MHz	256QAM-256QAM	42123-42240	1RB#0-0RB#0	16.75	21.57	30	PASS
42-42	5MHz-20MHz	256QAM-256QAM	42123-42240	50RB#0-100RB#0	16.35	21.17	30	PASS
42-42	5MHz-20MHz	256QAM-256QAM	42498-42615	1RB#0-0RB#0	16.57	21.39	30	PASS
42-42	5MHz-20MHz	256QAM-256QAM	42498-42615	50RB#0-100RB#0	16.14	20.96	30	PASS
42-42	5MHz-20MHz	256QAM-256QAM	42873-42990	1RB#0-0RB#0	16.67	21.49	30	PASS
42-42	5MHz-20MHz	256QAM-256QAM	42873-42990	50RB#0-100RB#0	16.26	21.08	30	PASS

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

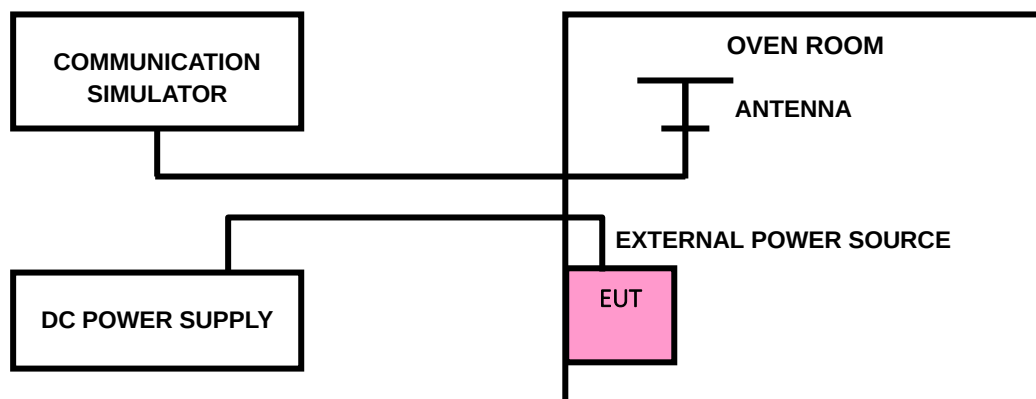
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

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

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

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

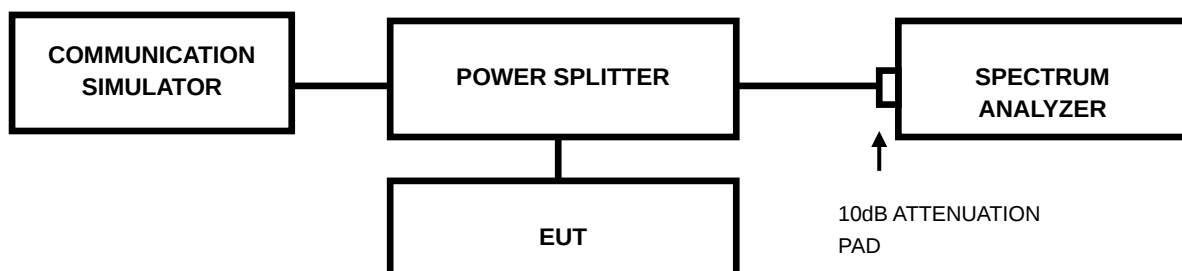
Please Refer to module RG620T-NA report.

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

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

3.3.4 TEST RESULTS

Please Refer to module RG620T-NA report.

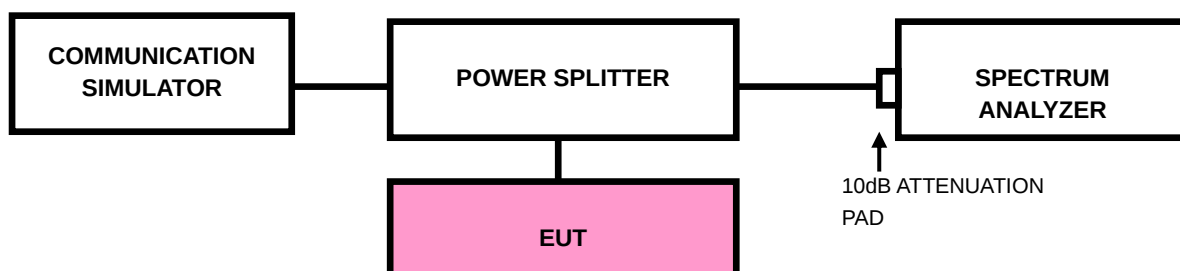
3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

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.

According to FCC Part 27.53 (n)(2)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 is based on the use of measurement instrumentation employing a lresolution 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.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

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

3.4.4 TEST RESULTS

Please Refer to module RG620T-NA report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

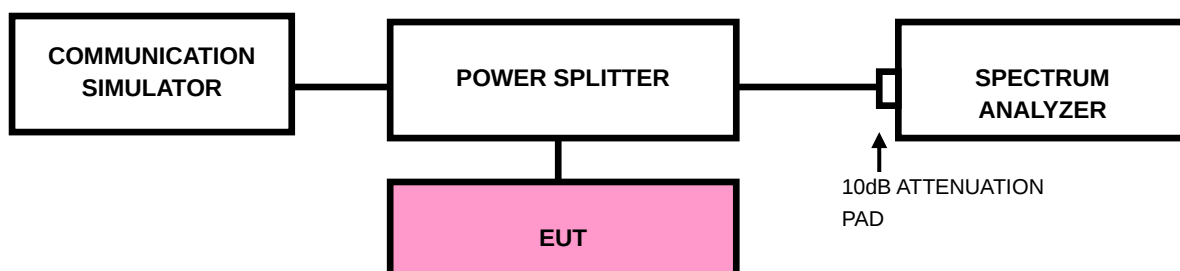
For: LTE Band7C/Band41C

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

3.5.2 TEST PROCEDURE

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

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

Please Refer to module RG620T-NA report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

For: LTE Band7/ Band41

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

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

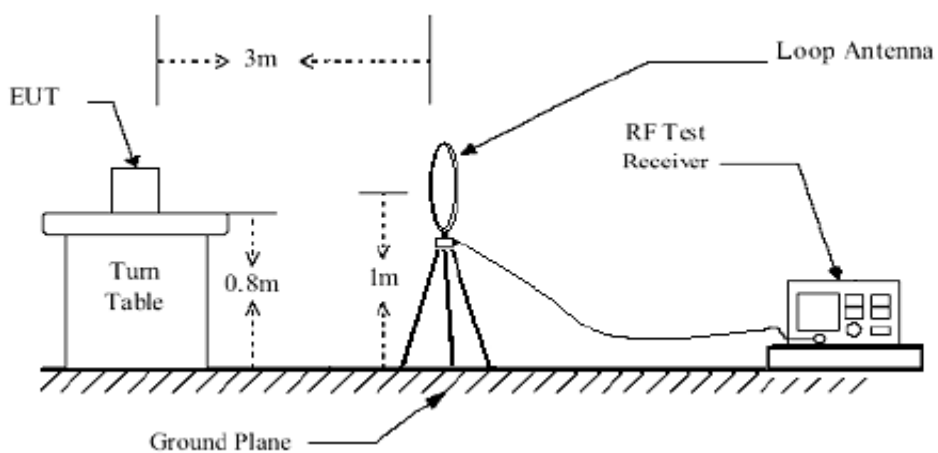
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

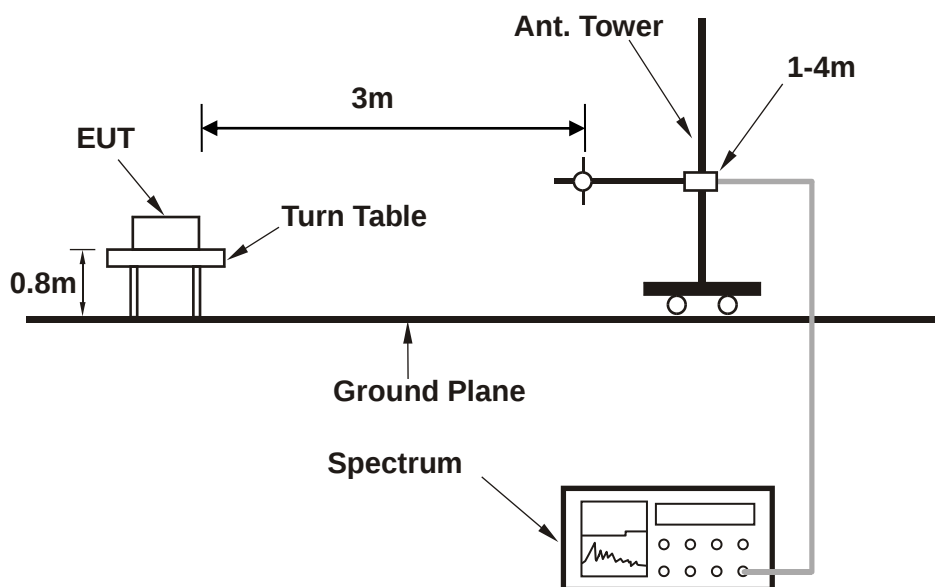
No deviation

3.6.4 TEST SETUP

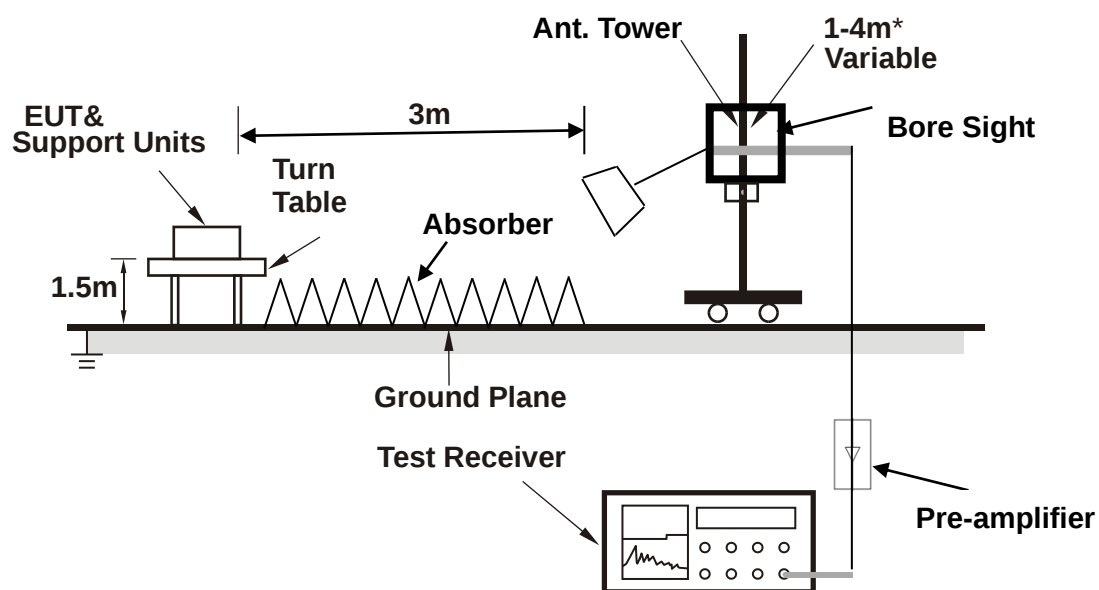
< Frequency Range below 30MHz >



< 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).

3.6.5 TEST RESULTS

NOTE1: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

NOTE2: The measurement range is 30M to the tenth harmonic of the highest fundamental frequency, For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report

LTE band CA_7C

Test result

ANT2 Channel : 21100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1069.00	-81.90	-25.00	Vertical
1156.00	-79.37	-25.00	Vertical
1503.00	-75.83	-25.00	Vertical
3583.00	-79.84	-25.00	Vertical
5072.00	-81.23	-25.00	Vertical
6731.75	-83.23	-25.00	Vertical

LTE band CA_38C

Test result

ANT0 Channel : 38000

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1150.00	-79.35	-25	Vertical
1511.00	-75.79	-25	Vertical
2389.00	-77.65	-25	Vertical
3595.00	-80.17	-25	Vertical
5174.00	-83.49	-25	Vertical
6721.25	-82.78	-25	Vertical

LTE band CA_41C

Test result

ANT0 Channel : 40620

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1141.00	-79.93	-25	Vertical
1503.00	-74.95	-25	Vertical
2385.00	-79.33	-25	Vertical
3596.00	-80.00	-25	Vertical
5193.00	-84.58	-25	Vertical
6719.50	-83.68	-25	Vertical

LTE band CA_42C

Test result

ANT0 Channel : 42590

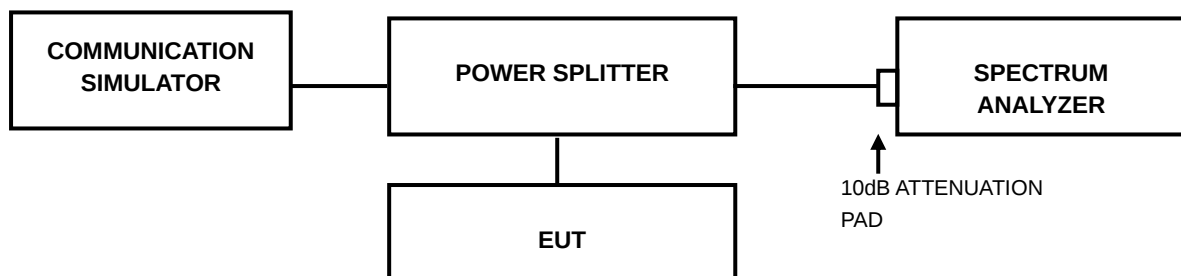
Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1171.84	-79.88	-13	Vertical
1387.42	-80.75	-13	Vertical
2410.55	-73.11	-13	Vertical
3135.00	-82.23	-13	Vertical
3563.00	-80.15	-13	Vertical
4716.00	-84.93	-13	Vertical

3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to module RG620T-NA report.



Test Report No.: PSU-NQN2502170113RF05

4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

Lab Address:

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

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

6 APPENDIX

Please Refer to module RG620T-NA report.

---END---