

FCC TEST REPORT

(PART 27)

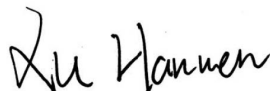
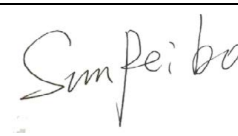
Applicant:	Beijing InHand Networks Technology Co., Ltd.
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing China

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:	CPE02
Brand Name:	inhand
Model Name:	CPE02
FCC ID:	2AANY-CPE02
Date of tests:	Feb. 11, 2025 ~ Feb. 28, 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: Feb. 28, 2025	 Date: Feb. 28, 2025

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2502170213RF05	Original release	Feb. 28, 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/B
NA	Peak to average ratio	Compliance	A



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***Test Lab Information Reference**

Lab A:

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

Lab Address:

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

Accredited Test Lab Cert 6613.01

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

1.1 MEASUREMENT UNCERTAINTY

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

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

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

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
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,25	Feb.21,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
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



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- 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	CPE02	
BRAND NAME	inhand	
MODEL NAME	CPE02	
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 ~ 2562.5MHz
	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	2580MHz ~ 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



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FREQUENCY RANGE	LTE Band CA_41C Channel Bandwidth: 15MHz+10MHz	2503.5MHz ~ 2684.7MHz
	LTE Band CA_41C Channel Bandwidth: 15MHz+15MHz	2503.5MHz ~ 2682.5MHz
	LTE Band CA_41C Channel Bandwidth: 15MHz+20MHz	2503.8MHz ~ 2680MHz
	LTE Band CA_41C Channel Bandwidth: 20MHz+5MHz	2506MHz ~ 2680MHz
	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
MAX. EIRP or EPR POWER	LTE Band CA_7C Channel Bandwidth: 20MHz+10MHz	239.33mW
	LTE Band CA_38C Channel Bandwidth: 20MHz+20MHz	284.49mW
	LTE Band CA_41C Channel Bandwidth: 20MHz+5MHz	279.25mW
ANTENNA TYPE	Built-in cellular Antenna with 2.86dBi gain for LTE CA 7C Built-in cellular Antenna with 2.64dBi gain for LTE CA 38C Built-in cellular Antenna with 2.46dBi gain for LTE CA 41C	
HW VERSION	V1.6	
SW VERSION	V2.0	
I/O PORTS	Refer to user's manual	
EXTREME TEMPERATURE	0°C~40 °C	
EXTREME VOLTAGE	9 Vdc~14Vdc	

NOTE1: This product uses the module model RM520N-NA and supports LTE frequency bands 2/4/5/7/12/13/14/17/25/26/30/38/41/48/66/71. Therefore, for this product, we referred to the test data reported by the RM520N-NA module and reevaluated the spectrum of radiated emissions and EIRP.

For module RM520N-NA: Report No.: 2303RSU050-U7

FCC ID: XMR2023RG520NNA



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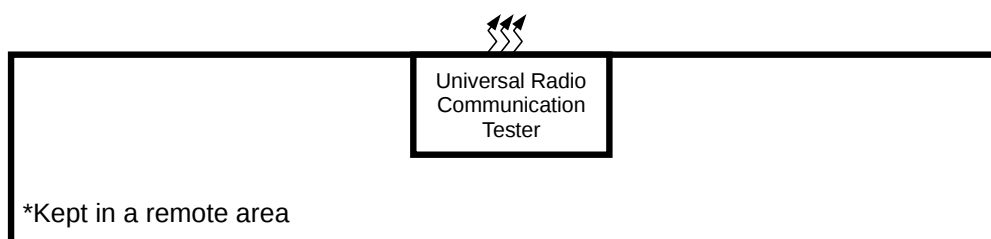
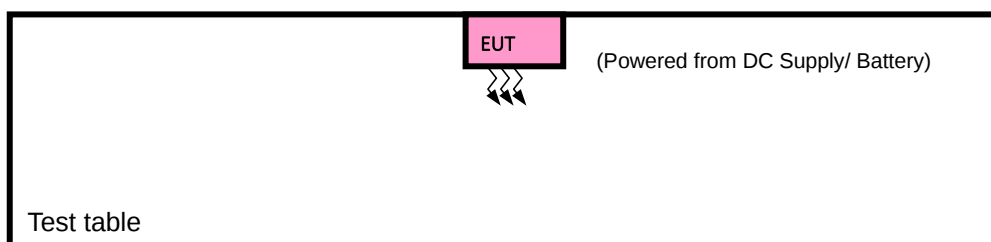
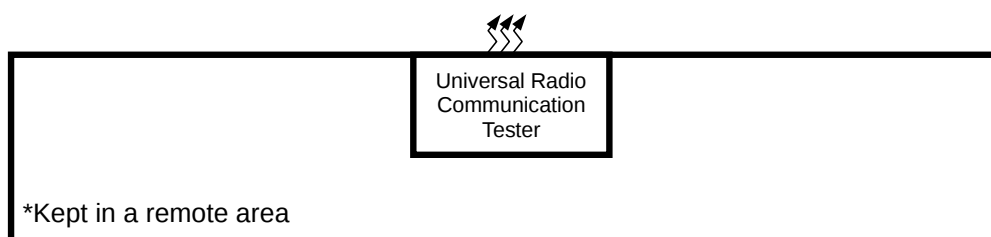
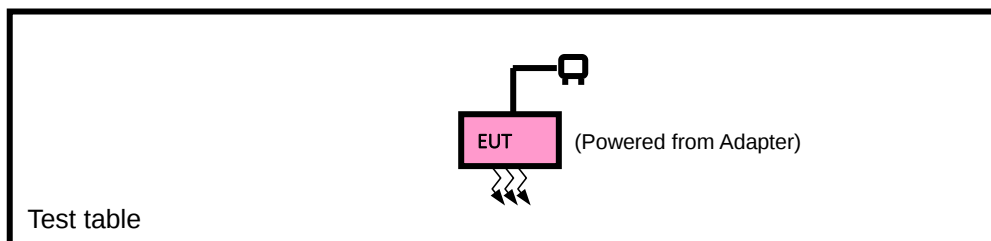
NOTE:

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 one receiver.

MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

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

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	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	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.



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Test Report No.: PSU-NQN2502170213RF05

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	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 Report No.: PSU-NQN2502170213RF05

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC12V By Adapter	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	DC12V By Adapter	Hanwen Xu



Test Report No.: PSU-NQN2502170213RF05

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

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2510	2560	20+20	P_1@49	S_0@0	23.61	26.47	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2510	2564.5	20+10	P_1@0	S_0@0	23.79	26.65	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2507.5	2562.5	15+10	P_1@74	S_0@0	23.03	25.89	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2510	2560	20+20	P_1@99	S_0@0	22.99	25.85	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Power

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2510.0	2529.8	20+20	P_1@0	S_0@0	23.23	26.09	< 33.01
2525.1	2544.9				23.29	26.15	< 33.01
2540.2	2560.0				23.54	26.40	< 33.01
2510.0	2529.8		P_1@49	S_0@0	23.37	26.23	< 33.01
2525.1	2544.9				23.38	26.24	< 33.01
2540.2	2560.0				23.61	26.47	< 33.01
2510.0	2529.8		P_1@99	S_0@0	23.20	26.06	< 33.01
2525.1	2544.9				23.36	26.22	< 33.01
2540.2	2560.0				23.46	26.32	< 33.01
2510.0	2529.8		P_100@0	S_100@0	21.51	24.37	< 33.01
2525.1	2544.9				21.64	24.50	< 33.01
2540.2	2560.0				21.84	24.70	< 33.01
2510.0	2527.1	20+15	P_1@0	S_0@0	22.95	25.81	< 33.01
2527.6	2544.7				23.27	26.13	< 33.01
2545.1	2562.2				23.57	26.43	< 33.01
2510.0	2527.1		P_1@49	S_0@0	23.10	25.96	< 33.01
2527.6	2544.7				23.29	26.15	< 33.01
2545.1	2562.2				23.47	26.33	< 33.01
2510.0	2527.1		P_1@99	S_0@0	23.25	26.11	< 33.01
2527.6	2544.7				23.53	26.39	< 33.01
2545.1	2562.2				23.69	26.55	< 33.01
2510.0	2527.1		P_100@0	S_75@0	21.41	24.27	< 33.01
2527.6	2544.7				21.68	24.54	< 33.01
2545.1	2562.2				21.84	24.70	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2507.8	2524.9	15+20	P_1@0	S_0@0	23.47	26.33	< 33.01
2525.3	2542.4				23.64	26.50	< 33.01
2542.9	2560.0				23.59	26.45	< 33.01
2507.8	2524.9		P_1@18	S_0@0	23.12	25.98	< 33.01
2525.3	2542.4				23.31	26.17	< 33.01
2542.9	2560.0				23.59	26.45	< 33.01
2507.8	2524.9		P_1@74	S_0@0	23.02	25.88	< 33.01
2525.3	2542.4				23.21	26.07	< 33.01
2542.9	2560.0				23.17	26.03	< 33.01
2507.8	2524.9		P_75@0	S_100@0	21.53	24.39	< 33.01
2525.3	2542.4				21.86	24.72	< 33.01
2542.9	2560.0				21.91	24.77	< 33.01
2507.5	2562.5	15+15	P_1@0	S_0@0	23.33	26.19	< 33.01
2527.5	2522.5				23.51	26.37	< 33.01
2547.5	2542.5				23.55	26.41	< 33.01
2507.5	2562.5		P_1@18	S_0@0	23.22	26.08	< 33.01
2527.5	2522.5				23.45	26.31	< 33.01
2547.5	2542.5				23.57	26.43	< 33.01
2507.5	2562.5		P_1@74	S_0@0	23.05	25.91	< 33.01
2527.5	2522.5				23.61	26.47	< 33.01
2547.5	2542.5				23.58	26.44	< 33.01
2507.5	2562.5		P_75@0	S_75@0	21.58	24.44	< 33.01
2527.5	2522.5				21.70	24.56	< 33.01
2547.5	2542.5				21.96	24.82	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2505.5	2519.9	10+20	P_1@0	S_0@0	23.13	25.99	< 33.01
2525.6	2540.0				23.46	26.32	< 33.01
2545.6	2560.0				23.74	26.60	< 33.01
2505.5	2519.9		P_1@25	S_0@0	23.17	26.03	< 33.01
2525.6	2540.0				23.05	25.91	< 33.01
2545.6	2560.0				23.75	26.61	< 33.01
2505.5	2519.9		P_1@49	S_0@0	22.99	25.85	< 33.01
2525.6	2540.0				23.11	25.97	< 33.01
2545.6	2560.0				23.71	26.57	< 33.01
2505.5	2519.9		P_50@0	S_100@0	21.39	24.25	< 33.01
2525.6	2540.0				21.71	24.57	< 33.01
2545.6	2560.0				21.84	24.70	< 33.01
2510.0	2524.4	20+10	P_1@0	S_0@0	23.15	26.01	< 33.01
2530.1	2544.5				23.36	26.22	< 33.01
2550.1	2564.5				23.71	26.57	< 33.01
2510.0	2524.4		P_1@49	S_0@0	23.13	25.99	< 33.01
2530.1	2544.5				23.41	26.27	< 33.01
2550.1	2564.5				23.70	26.56	< 33.01
2510.0	2524.4		P_1@99	S_0@0	23.14	26.00	< 33.01
2530.1	2544.5				23.67	26.53	< 33.01
2550.1	2564.5				23.79	26.65	< 33.01
2510.0	2524.4		P_100@0	S_50@0	21.50	24.36	< 33.01
2530.1	2544.5				21.58	24.44	< 33.01
2550.1	2564.5				21.97	24.83	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2507.5	2519.5	15+10	P_1@0	S_0@0	23.14	26.00	< 33.01
2530.1	2542.1				23.28	26.14	< 33.01
2552.7	2562.5				23.68	26.54	< 33.01
2507.5	2519.5		P_1@38	S_0@0	23.07	25.93	< 33.01
2530.1	2542.1				23.22	26.08	< 33.01
2552.7	2562.5				23.02	25.88	< 33.01
2507.5	2519.5		P_1@74	S_0@0	22.98	25.84	< 33.01
2530.1	2542.1				23.65	26.51	< 33.01
2552.7	2562.5				23.73	26.59	< 33.01
2507.5	2519.5		P_75@0	S_50@0	21.41	24.27	< 33.01
2530.1	2542.1				21.64	24.50	< 33.01
2552.7	2562.5				22.01	24.87	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2510.0	2529.8	20+20	P_1@0	S_0@0	22.34	25.20	< 33.01
2525.1	2544.9				22.76	25.62	< 33.01
2540.2	2560.0				22.25	25.11	< 33.01
2510.0	2529.8		P_1@49	S_0@0	22.77	25.63	< 33.01
2525.1	2544.9				22.75	25.61	< 33.01
2540.2	2560.0				22.28	25.14	< 33.01
2510.0	2529.8		P_1@99	S_0@0	22.59	25.45	< 33.01
2525.1	2544.9				22.99	25.85	< 33.01
2540.2	2560.0				20.57	23.43	< 33.01
2510.0	2529.8		P_100@0	S_100@0	20.62	23.48	< 33.01
2525.1	2544.9				20.94	23.80	< 33.01
2540.2	2560.0				22.34	25.20	< 33.01
2510.0	2527.1	20+15	P_1@0	S_0@0	22.23	25.09	< 33.01
2527.6	2544.7				22.54	25.40	< 33.01
2545.1	2562.2				22.87	25.73	< 33.01
2510.0	2527.1		P_1@49	S_0@0	22.34	25.20	< 33.01
2527.6	2544.7				22.39	25.25	< 33.01
2545.1	2562.2				22.89	25.75	< 33.01
2510.0	2527.1		P_1@99	S_0@0	22.53	25.39	< 33.01
2527.6	2544.7				22.92	25.78	< 33.01
2545.1	2562.2				22.91	25.77	< 33.01
2510.0	2527.1		P_100@0	S_75@0	20.41	23.27	< 33.01
2527.6	2544.7				20.78	23.64	< 33.01
2545.1	2562.2				20.82	23.68	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2507.8	2524.9	15+20	P_1@0	S_0@0	22.30	25.16	< 33.01
2525.3	2542.4				22.82	25.68	< 33.01
2542.9	2560.0				22.83	25.69	< 33.01
2507.8	2524.9		P_1@18	S_0@0	22.44	25.30	< 33.01
2525.3	2542.4				22.67	25.53	< 33.01
2542.9	2560.0				22.82	25.68	< 33.01
2507.8	2524.9		P_1@74	S_0@0	22.37	25.23	< 33.01
2525.3	2542.4				22.46	25.32	< 33.01
2542.9	2560.0				22.79	25.65	< 33.01
2507.8	2524.9		P_75@0	S_100@0	20.54	23.40	< 33.01
2525.3	2542.4				20.97	23.83	< 33.01
2542.9	2560.0				20.95	23.81	< 33.01
2507.5	2562.5	15+15	P_1@0	S_0@0	22.72	25.58	< 33.01
2527.5	2522.5				22.65	25.51	< 33.01
2547.5	2542.5				22.83	25.69	< 33.01
2507.5	2562.5		P_1@18	S_0@0	22.42	25.28	< 33.01
2527.5	2522.5				22.67	25.53	< 33.01
2547.5	2542.5				22.76	25.62	< 33.01
2507.5	2562.5		P_1@74	S_0@0	22.44	25.30	< 33.01
2527.5	2522.5				22.86	25.72	< 33.01
2547.5	2542.5				22.83	25.69	< 33.01
2507.5	2562.5		P_75@0	S_75@0	20.58	23.44	< 33.01
2527.5	2522.5				20.71	23.57	< 33.01
2547.5	2542.5				21.06	23.92	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2505.5	2519.9	10+20	P_1@0	S_0@0	22.42	25.28	< 33.01
2525.6	2540.0				22.63	25.49	< 33.01
2545.6	2560.0				23.01	25.87	< 33.01
2505.5	2519.9		P_1@25	S_0@0	22.26	25.12	< 33.01
2525.6	2540.0				22.29	25.15	< 33.01
2545.6	2560.0				22.97	25.83	< 33.01
2505.5	2519.9		P_1@49	S_0@0	22.41	25.27	< 33.01
2525.6	2540.0				22.43	25.29	< 33.01
2545.6	2560.0				22.74	25.60	< 33.01
2505.5	2519.9		P_50@0	S_100@0	20.42	23.28	< 33.01
2525.6	2540.0				20.80	23.66	< 33.01
2545.6	2560.0				20.81	23.67	< 33.01
2510.0	2524.4	20+10	P_1@0	S_0@0	22.44	25.30	< 33.01
2530.1	2544.5				22.73	25.59	< 33.01
2550.1	2564.5				22.92	25.78	< 33.01
2510.0	2524.4		P_1@49	S_0@0	22.61	25.47	< 33.01
2530.1	2544.5				22.75	25.61	< 33.01
2550.1	2564.5				22.97	25.83	< 33.01
2510.0	2524.4		P_1@99	S_0@0	22.58	25.44	< 33.01
2530.1	2544.5				22.91	25.77	< 33.01
2550.1	2564.5				22.77	25.63	< 33.01
2510.0	2524.4		P_100@0	S_50@0	20.42	23.28	< 33.01
2530.1	2544.5				20.62	23.48	< 33.01
2550.1	2564.5				20.98	23.84	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2507.5	2519.5	15+10	P_1@0	S_0@0	22.32	25.18	< 33.01
2530.1	2542.1				22.78	25.64	< 33.01
2552.7	2562.5				22.85	25.71	< 33.01
2507.5	2519.5		P_1@38	S_0@0	22.35	25.21	< 33.01
2530.1	2542.1				22.41	25.27	< 33.01
2552.7	2562.5				22.84	25.70	< 33.01
2507.5	2519.5		P_1@74	S_0@0	22.33	25.19	< 33.01
2530.1	2542.1				22.82	25.68	< 33.01
2552.7	2562.5				23.03	25.89	< 33.01
2507.5	2519.5		P_75@0	S_50@0	20.46	23.32	< 33.01
2530.1	2542.1				20.63	23.49	< 33.01
2552.7	2562.5				21.06	23.92	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2510.0	2529.8	20+20	P_1@0	S_0@0	20.63	23.49	< 33.01
2525.1	2544.9				20.46	23.32	< 33.01
2540.2	2560.0				20.92	23.78	< 33.01
2510.0	2529.8		P_1@49	S_0@0	20.66	23.52	< 33.01
2525.1	2544.9				20.79	23.65	< 33.01
2540.2	2560.0				20.91	23.77	< 33.01
2510.0	2529.8		P_1@99	S_0@0	20.46	23.32	< 33.01
2525.1	2544.9				20.60	23.46	< 33.01
2540.2	2560.0				20.96	23.82	< 33.01
2510.0	2529.8		P_100@0	S_100@0	18.48	21.34	< 33.01
2525.1	2544.9				18.57	21.43	< 33.01
2540.2	2560.0				18.84	21.70	< 33.01
2510.0	2527.1	20+15	P_1@0	S_0@0	20.41	23.27	< 33.01
2527.6	2544.7				20.51	23.37	< 33.01
2545.1	2562.2				21.13	23.99	< 33.01
2510.0	2527.1		P_1@49	S_0@0	20.46	23.32	< 33.01
2527.6	2544.7				20.61	23.47	< 33.01
2545.1	2562.2				20.95	23.81	< 33.01
2510.0	2527.1		P_1@99	S_0@0	20.55	23.41	< 33.01
2527.6	2544.7				20.86	23.72	< 33.01
2545.1	2562.2				20.95	23.81	< 33.01
2510.0	2527.1		P_100@0	S_75@0	18.41	21.27	< 33.01
2527.6	2544.7				18.68	21.54	< 33.01
2545.1	2562.2				18.76	21.62	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2507.8	2524.9	15+20	P_1@0	S_0@0	20.44	23.30	< 33.01
2525.3	2542.4				21.35	24.21	< 33.01
2542.9	2560.0				21.41	24.27	< 33.01
2507.8	2524.9		P_1@18	S_0@0	20.71	23.57	< 33.01
2525.3	2542.4				20.59	23.45	< 33.01
2542.9	2560.0				20.94	23.80	< 33.01
2507.8	2524.9		P_1@74	S_0@0	20.69	23.55	< 33.01
2525.3	2542.4				20.74	23.60	< 33.01
2542.9	2560.0				20.98	23.84	< 33.01
2507.8	2524.9		P_75@0	S_100@0	18.54	21.40	< 33.01
2525.3	2542.4				18.85	21.71	< 33.01
2542.9	2560.0				18.92	21.78	< 33.01
2507.5	2562.5	15+15	P_1@0	S_0@0	20.77	23.63	< 33.01
2527.5	2522.5				21.07	23.93	< 33.01
2547.5	2542.5				21.42	24.28	< 33.01
2507.5	2562.5		P_1@18	S_0@0	20.65	23.51	< 33.01
2527.5	2522.5				21.04	23.90	< 33.01
2547.5	2542.5				21.39	24.25	< 33.01
2507.5	2562.5		P_1@74	S_0@0	20.82	23.68	< 33.01
2527.5	2522.5				20.79	23.65	< 33.01
2547.5	2542.5				21.13	23.99	< 33.01
2507.5	2562.5		P_75@0	S_75@0	18.51	21.37	< 33.01
2527.5	2522.5				18.78	21.64	< 33.01
2547.5	2542.5				18.93	21.79	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2505.5	2519.9	10+20	P_1@0	S_0@0	20.65	23.51	< 33.01
2525.6	2540.0				20.71	23.57	< 33.01
2545.6	2560.0				20.87	23.73	< 33.01
2505.5	2519.9		P_1@25	S_0@0	20.52	23.38	< 33.01
2525.6	2540.0				20.79	23.65	< 33.01
2545.6	2560.0				21.17	24.03	< 33.01
2505.5	2519.9		P_1@49	S_0@0	20.47	23.33	< 33.01
2525.6	2540.0				20.88	23.74	< 33.01
2545.6	2560.0				20.95	23.81	< 33.01
2505.5	2519.9		P_50@0	S_100@0	18.43	21.29	< 33.01
2525.6	2540.0				18.69	21.55	< 33.01
2545.6	2560.0				18.78	21.64	< 33.01
2510.0	2524.4	20+10	P_1@0	S_0@0	20.43	23.29	< 33.01
2530.1	2544.5				20.72	23.58	< 33.01
2550.1	2564.5				21.12	23.98	< 33.01
2510.0	2524.4		P_1@49	S_0@0	20.29	23.15	< 33.01
2530.1	2544.5				20.89	23.75	< 33.01
2550.1	2564.5				21.04	23.90	< 33.01
2510.0	2524.4		P_1@99	S_0@0	20.46	23.32	< 33.01
2530.1	2544.5				20.85	23.71	< 33.01
2550.1	2564.5				21.55	24.41	< 33.01
2510.0	2524.4		P_100@0	S_50@0	18.38	21.24	< 33.01
2530.1	2544.5				18.66	21.52	< 33.01
2550.1	2564.5				18.94	21.80	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2507.5	2519.5	15+10	P_1@0	S_0@0	20.75	23.61	< 33.01
2530.1	2542.1				21.02	23.88	< 33.01
2552.7	2562.5				20.93	23.79	< 33.01
2507.5	2519.5		P_1@38	S_0@0	20.67	23.53	< 33.01
2530.1	2542.1				20.79	23.65	< 33.01
2552.7	2562.5				21.05	23.91	< 33.01
2507.5	2519.5		P_1@74	S_0@0	20.43	23.29	< 33.01
2530.1	2542.1				20.82	23.68	< 33.01
2552.7	2562.5				21.57	24.43	< 33.01
2507.5	2519.5		P_75@0	S_50@0	18.41	21.27	< 33.01
2530.1	2542.1				18.64	21.50	< 33.01
2552.7	2562.5				19.02	21.88	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2510.0	2529.8	20+20	P_1@0	S_0@0	17.56	20.42	< 33.01
2525.1	2544.9				17.41	20.27	< 33.01
2540.2	2560.0				17.68	20.54	< 33.01
2510.0	2529.8		P_1@49	S_0@0	17.72	20.58	< 33.01
2525.1	2544.9				17.84	20.70	< 33.01
2540.2	2560.0				17.91	20.77	< 33.01
2510.0	2529.8		P_1@99	S_0@0	17.36	20.22	< 33.01
2525.1	2544.9				17.84	20.70	< 33.01
2540.2	2560.0				17.86	20.72	< 33.01
2510.0	2529.8		P_100@0	S_100@0	17.43	20.29	< 33.01
2525.1	2544.9				17.59	20.45	< 33.01
2540.2	2560.0				17.79	20.65	< 33.01
2510.0	2527.1	20+15	P_1@0	S_0@0	17.58	20.44	< 33.01
2527.6	2544.7				17.52	20.38	< 33.01
2545.1	2562.2				17.82	20.68	< 33.01
2510.0	2527.1		P_1@49	S_0@0	17.61	20.47	< 33.01
2527.6	2544.7				17.59	20.45	< 33.01
2545.1	2562.2				17.87	20.73	< 33.01
2510.0	2527.1		P_1@99	S_0@0	17.74	20.60	< 33.01
2527.6	2544.7				17.88	20.74	< 33.01
2545.1	2562.2				17.95	20.81	< 33.01
2510.0	2527.1		P_100@0	S_75@0	17.41	20.27	< 33.01
2527.6	2544.7				17.61	20.47	< 33.01
2545.1	2562.2				17.78	20.64	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2507.8	2524.9	15+20	P_1@0	S_0@0	17.53	20.39	< 33.01
2525.3	2542.4				18.26	21.12	< 33.01
2542.9	2560.0				18.83	21.69	< 33.01
2507.8	2524.9		P_1@18	S_0@0	17.65	20.51	< 33.01
2525.3	2542.4				17.73	20.59	< 33.01
2542.9	2560.0				17.93	20.79	< 33.01
2507.8	2524.9		P_1@74	S_0@0	17.34	20.20	< 33.01
2525.3	2542.4				17.62	20.48	< 33.01
2542.9	2560.0				17.87	20.73	< 33.01
2507.8	2524.9		P_75@0	S_100@0	17.52	20.38	< 33.01
2525.3	2542.4				17.76	20.62	< 33.01
2542.9	2560.0				17.94	20.80	< 33.01
2507.5	2562.5	15+15	P_1@0	S_0@0	17.83	20.69	< 33.01
2527.5	2522.5				18.07	20.93	< 33.01
2547.5	2542.5				18.21	21.07	< 33.01
2507.5	2562.5		P_1@18	S_0@0	17.72	20.58	< 33.01
2527.5	2522.5				17.86	20.72	< 33.01
2547.5	2542.5				18.05	20.91	< 33.01
2507.5	2562.5		P_1@74	S_0@0	17.78	20.64	< 33.01
2527.5	2522.5				18.08	20.94	< 33.01
2547.5	2542.5				18.19	21.05	< 33.01
2507.5	2562.5		P_75@0	S_75@0	17.52	20.38	< 33.01
2527.5	2522.5				17.76	20.62	< 33.01
2547.5	2542.5				17.93	20.79	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2505.5	2519.9	10+20	P_1@0	S_0@0	17.45	20.31	< 33.01
2525.6	2540.0				17.52	20.38	< 33.01
2545.6	2560.0				18.04	20.90	< 33.01
2505.5	2519.9		P_1@25	S_0@0	17.33	20.19	< 33.01
2525.6	2540.0				17.51	20.37	< 33.01
2545.6	2560.0				18.14	21.00	< 33.01
2505.5	2519.9		P_1@49	S_0@0	17.35	20.21	< 33.01
2525.6	2540.0				17.84	20.70	< 33.01
2545.6	2560.0				17.71	20.57	< 33.01
2505.5	2519.9		P_50@0	S_100@0	17.42	20.28	< 33.01
2525.6	2540.0				17.65	20.51	< 33.01
2545.6	2560.0				17.79	20.65	< 33.01
2510.0	2524.4	20+10	P_1@0	S_0@0	17.79	20.65	< 33.01
2530.1	2544.5				17.69	20.55	< 33.01
2550.1	2564.5				18.03	20.89	< 33.01
2510.0	2524.4		P_1@49	S_0@0	17.56	20.42	< 33.01
2530.1	2544.5				17.69	20.55	< 33.01
2550.1	2564.5				17.88	20.74	< 33.01
2510.0	2524.4		P_1@99	S_0@0	17.58	20.44	< 33.01
2530.1	2544.5				17.96	20.82	< 33.01
2550.1	2564.5				18.19	21.05	< 33.01
2510.0	2524.4		P_100@0	S_50@0	17.45	20.31	< 33.01
2530.1	2544.5				17.67	20.53	< 33.01
2550.1	2564.5				17.93	20.79	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2507.5	2519.5	15+10	P_1@0	S_0@0	17.55	20.41	< 33.01
2530.1	2542.1				17.82	20.68	< 33.01
2552.7	2562.5				17.98	20.84	< 33.01
2507.5	2519.5		P_1@38	S_0@0	17.36	20.22	< 33.01
2530.1	2542.1				17.79	20.65	< 33.01
2552.7	2562.5				18.05	20.91	< 33.01
2507.5	2519.5		P_1@74	S_0@0	17.34	20.20	< 33.01
2530.1	2542.1				17.95	20.81	< 33.01
2552.7	2562.5				18.28	21.14	< 33.01
2507.5	2519.5		P_75@0	S_50@0	17.35	20.21	< 33.01
2530.1	2542.1				17.69	20.55	< 33.01
2552.7	2562.5				17.95	20.81	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

LTE Band CA_38C

MAX Power

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2580	2610	20+20	P_1@49	S_0@0	24.51	27.15	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2580	2610	20+20	P_1@0	S_0@0	23.62	26.26	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2502170213RF05

Power

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2577.5	2592.5	15+15	P_1@0	S_0@0	24.30	26.94	< 33.01
2587.5	2602.5				24.24	26.88	< 33.01
2597.5	2612.5				24.25	26.89	< 33.01
2577.5	2592.5		P_1@38	S_0@0	24.18	26.82	< 33.01
2587.5	2602.5				24.19	26.83	< 33.01
2597.5	2612.5				24.18	26.82	< 33.01
2577.5	2592.5		P_1@74	S_0@0	24.17	26.81	< 33.01
2587.5	2602.5				24.12	26.76	< 33.01
2597.5	2612.5				24.21	26.85	< 33.01
2577.5	2592.5		P_75@0	S_75@0	23.13	25.77	< 33.01
2587.5	2602.5				23.11	25.75	< 33.01
2597.5	2612.5				23.13	25.77	< 33.01
2580.0	2599.8	20+20	P_1@0	S_0@0	24.14	26.78	< 33.01
2585.1	2604.9				24.36	27.00	< 33.01
2590.2	2610.0				24.17	26.81	< 33.01
2580.0	2599.8		P_1@49	S_0@0	24.19	26.83	< 33.01
2585.1	2604.9				24.17	26.81	< 33.01
2590.2	2610.0				24.51	27.15	< 33.01
2580.0	2599.8		P_1@99	S_0@0	24.08	26.72	< 33.01
2585.1	2604.9				24.18	26.82	< 33.01
2590.2	2610.0				24.37	27.01	< 33.01
2580.0	2599.8		P_100@0	S_100@0	23.15	25.79	< 33.01
2585.1	2604.9				23.15	25.79	< 33.01
2590.2	2610.0				23.19	25.83	< 33.01

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2577.5	2592.5	15+15	P_1@0	S_0@0	23.52	26.16	< 33.01
2587.5	2602.5				23.48	26.12	< 33.01
2597.5	2612.5				23.53	26.17	< 33.01
2577.5	2592.5		P_1@38	S_0@0	23.29	25.93	< 33.01
2587.5	2602.5				23.47	26.11	< 33.01
2597.5	2612.5				23.55	26.19	< 33.01
2577.5	2592.5		P_1@74	S_0@0	23.56	26.20	< 33.01
2587.5	2602.5				23.45	26.09	< 33.01
2597.5	2612.5				23.54	26.18	< 33.01
2577.5	2592.5		P_75@0	S_75@0	22.14	24.78	< 33.01
2587.5	2602.5				22.09	24.73	< 33.01
2597.5	2612.5				22.13	24.77	< 33.01
2580.0	2599.8	20+20	P_1@0	S_0@0	23.62	26.26	< 33.01
2585.1	2604.9				23.36	26.00	< 33.01
2590.2	2610.0				23.41	26.05	< 33.01
2580.0	2599.8		P_1@49	S_0@0	23.38	26.02	< 33.01
2585.1	2604.9				23.43	26.07	< 33.01
2590.2	2610.0				23.47	26.11	< 33.01
2580.0	2599.8		P_1@99	S_0@0	23.46	26.10	< 33.01
2585.1	2604.9				23.62	26.26	< 33.01
2590.2	2610.0				23.44	26.08	< 33.01
2580.0	2599.8		P_100@0	S_100@0	22.13	24.77	< 33.01
2585.1	2604.9				22.16	24.80	< 33.01
2590.2	2610.0				22.17	24.81	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2577.5	2592.5	15+15	P_1@0	S_0@0	22.51	25.15	< 33.01
2587.5	2602.5				22.42	25.06	< 33.01
2597.5	2612.5				22.65	25.29	< 33.01
2577.5	2592.5		P_1@38	S_0@0	22.61	25.25	< 33.01
2587.5	2602.5				22.45	25.09	< 33.01
2597.5	2612.5				22.47	25.11	< 33.01
2577.5	2592.5		P_1@74	S_0@0	22.51	25.15	< 33.01
2587.5	2602.5				22.66	25.30	< 33.01
2597.5	2612.5				22.51	25.15	< 33.01
2577.5	2592.5		P_75@0	S_75@0	22.09	24.73	< 33.01
2587.5	2602.5				22.06	24.70	< 33.01
2597.5	2612.5				22.08	24.72	< 33.01
2580.0	2599.8	20+20	P_1@0	S_0@0	22.70	25.34	< 33.01
2585.1	2604.9				22.36	25.00	< 33.01
2590.2	2610.0				22.41	25.05	< 33.01
2580.0	2599.8		P_1@49	S_0@0	22.63	25.27	< 33.01
2585.1	2604.9				22.58	25.22	< 33.01
2590.2	2610.0				22.83	25.47	< 33.01
2580.0	2599.8		P_1@99	S_0@0	22.70	25.34	< 33.01
2585.1	2604.9				22.60	25.24	< 33.01
2590.2	2610.0				22.37	25.01	< 33.01
2580.0	2599.8		P_100@0	S_100@0	22.14	24.78	< 33.01
2585.1	2604.9				22.12	24.76	< 33.01
2590.2	2610.0				22.13	24.77	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2577.5	2592.5	15+15	P_1@0	S_0@0	19.68	22.32	< 33.01
2587.5	2602.5				19.45	22.09	< 33.01
2597.5	2612.5				19.55	22.19	< 33.01
2577.5	2592.5		P_1@38	S_0@0	19.51	22.15	< 33.01
2587.5	2602.5				19.52	22.16	< 33.01
2597.5	2612.5				19.62	22.26	< 33.01
2577.5	2592.5		P_1@74	S_0@0	19.36	22.00	< 33.01
2587.5	2602.5				19.37	22.01	< 33.01
2597.5	2612.5				19.47	22.11	< 33.01
2577.5	2592.5		P_75@0	S_75@0	20.10	22.74	< 33.01
2587.5	2602.5				20.14	22.78	< 33.01
2597.5	2612.5				20.11	22.75	< 33.01
2580.0	2599.8	20+20	P_1@0	S_0@0	19.74	22.38	< 33.01
2585.1	2604.9				19.54	22.18	< 33.01
2590.2	2610.0				19.38	22.02	< 33.01
2580.0	2599.8		P_1@49	S_0@0	19.79	22.43	< 33.01
2585.1	2604.9				19.73	22.37	< 33.01
2590.2	2610.0				19.54	22.18	< 33.01
2580.0	2599.8		P_1@99	S_0@0	19.67	22.31	< 33.01
2585.1	2604.9				19.68	22.32	< 33.01
2590.2	2610.0				19.47	22.11	< 33.01
2580.0	2599.8		P_100@0	S_100@0	20.14	22.78	< 33.01
2585.1	2604.9				20.14	22.78	< 33.01
2590.2	2610.0				20.15	22.79	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

**LTE Band CA_41C
MAX Power**

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2506	2680	20+20	P_1@49	S_0@0	24.29	26.75	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2506	2680	20+5	P_1@99	S_0@0	24.46	26.92	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2506	2680	20+20	P_1@99	S_0@0	23.46	25.92	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2506	2680	20+5	P_1@99	S_0@0	23.76	26.22	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Power

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2506.00	2525.80	20+20	P_1@0	S_0@0	24.09	26.55	< 33.01
2583.10	2602.90				24.19	26.65	< 33.01
2660.20	2680.00				23.96	26.42	< 33.01
2506.00	2525.80		P_1@49	S_0@0	24.29	26.75	< 33.01
2583.10	2602.90				24.08	26.54	< 33.01
2660.20	2680.00				24.09	26.55	< 33.01
2506.00	2525.80		P_1@99	S_0@0	24.06	26.52	< 33.01
2583.10	2602.90				24.22	26.68	< 33.01
2660.20	2680.00				24.18	26.64	< 33.01
2506.00	2525.80		P_100@0	S_100@0	22.96	25.42	< 33.01
2583.10	2602.90				23.04	25.50	< 33.01
2660.20	2680.00				23.07	25.53	< 33.01
2506.00	2523.10	20+15	P_1@0	S_0@0	24.02	26.48	< 33.01
2585.60	2602.70				24.25	26.71	< 33.01
2665.10	2682.20				24.24	26.70	< 33.01
2506.00	2523.10		P_1@49	S_0@0	24.02	26.48	< 33.01
2585.60	2602.70				24.16	26.62	< 33.01
2665.10	2682.20				24.12	26.58	< 33.01
2506.00	2523.10		P_1@99	S_0@0	24.22	26.68	< 33.01
2585.60	2602.70				24.11	26.57	< 33.01
2665.10	2682.20				24.29	26.75	< 33.01
2506.00	2523.10		P_100@0	S_75@0	23.01	25.47	< 33.01
2585.60	2602.70				23.02	25.48	< 33.01
2665.10	2682.20				23.11	25.57	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2503.80	2520.90	15+20	P_1@0	S_0@0	23.64	26.10	< 33.01
2593.30	2600.40				23.73	26.19	< 33.01
2662.90	2680.00				23.59	26.05	< 33.01
2503.80	2520.90		P_1@38	S_0@0	23.65	26.11	< 33.01
2593.30	2600.40				23.57	26.03	< 33.01
2662.90	2680.00				23.78	26.24	< 33.01
2503.80	2520.90		P_1@74	S_0@0	23.58	26.04	< 33.01
2593.30	2600.40				23.56	26.02	< 33.01
2662.90	2680.00				23.68	26.14	< 33.01
2503.80	2520.90		P_75@0	S_100@0	22.44	24.90	< 33.01
2593.30	2600.40				22.49	24.95	< 33.01
2662.90	2680.00				22.59	25.05	< 33.01
2506.00	2520.40	20+10	P_1@0	S_0@0	24.12	26.58	< 33.01
2588.10	2602.50				24.19	26.65	< 33.01
2670.10	2684.50				24.29	26.75	< 33.01
2506.00	2520.40		P_1@49	S_0@0	24.01	26.47	< 33.01
2588.10	2602.50				24.28	26.74	< 33.01
2670.10	2684.50				24.14	26.60	< 33.01
2506.00	2520.40		P_1@99	S_0@0	24.28	26.74	< 33.01
2588.10	2602.50				24.08	26.54	< 33.01
2670.10	2684.50				24.31	26.77	< 33.01
2506.00	2520.40		P_100@0	S_50@0	23.01	25.47	< 33.01
2588.10	2602.50				23.04	25.50	< 33.01
2670.10	2684.50				23.18	25.64	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2501.50	2515.90	10+20	P_1@0	S_0@0	23.61	26.07	< 33.01
2583.60	2598.00				23.72	26.18	< 33.01
2665.60	2680.00				23.69	26.15	< 33.01
2501.50	2515.90		P_1@25	S_0@0	23.58	26.04	< 33.01
2583.60	2598.00				23.53	25.99	< 33.01
2665.60	2680.00				23.67	26.13	< 33.01
2501.50	2515.90		P_1@49	S_0@0	23.58	26.04	< 33.01
2583.60	2598.00				23.57	26.03	< 33.01
2665.60	2680.00				23.68	26.14	< 33.01
2501.50	2515.90		P_50@0	S_100@0	22.46	24.92	< 33.01
2583.60	2598.00				22.51	24.97	< 33.01
2665.60	2680.00				22.58	25.04	< 33.01
2506.00	2517.70	20+5	P_1@0	S_0@0	24.13	26.59	< 33.01
2590.50	2602.20				24.10	26.56	< 33.01
2675.00	2686.70				24.25	26.71	< 33.01
2506.00	2517.70		P_1@49	S_0@0	24.08	26.54	< 33.01
2590.50	2602.20				24.08	26.54	< 33.01
2675.00	2686.70				24.27	26.73	< 33.01
2506.00	2517.70		P_1@99	S_0@0	24.02	26.48	< 33.01
2590.50	2602.20				24.28	26.74	< 33.01
2675.00	2686.70				24.46	26.92	< 33.01
2506.00	2517.70		P_100@	S_25@0	22.95	25.41	< 33.01
2590.50	2602.20				23.01	25.47	< 33.01
2675.00	2686.70				23.24	25.70	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2499.30	2511.00	5+20	P_1@0	S_0@0	23.91	26.37	< 33.01
2583.80	2595.50				23.95	26.41	< 33.01
2668.30	2680.00				24.04	26.50	< 33.01
2499.30	2511.00		P_1@13	S_0@0	23.89	26.35	< 33.01
2583.80	2595.50				23.96	26.42	< 33.01
2668.30	2680.00				24.34	26.80	< 33.01
2499.30	2511.00		P_1@24	S_0@0	23.78	26.24	< 33.01
2583.80	2595.50				23.76	26.22	< 33.01
2668.30	2680.00				23.86	26.32	< 33.01
2499.30	2511.00		P_25@0	S_100@0	22.81	25.27	< 33.01
2583.80	2595.50				22.83	25.29	< 33.01
2668.30	2680.00				22.84	25.30	< 33.01
2503.50	2518.50	15+15	P_1@0	S_0@0	23.57	26.03	< 33.01
2585.50	2600.50				23.71	26.17	< 33.01
2667.50	2682.50				23.64	26.10	< 33.01
2503.50	2518.50		P_1@38	S_0@0	23.41	25.87	< 33.01
2585.50	2600.50				23.51	25.97	< 33.01
2667.50	2682.50				23.66	26.12	< 33.01
2503.50	2518.50		P_1@74	S_0@0	23.66	26.12	< 33.01
2585.50	2600.50				23.65	26.11	< 33.01
2667.50	2682.50				23.61	26.07	< 33.01
2503.50	2518.50		P_75@0	S_75@0	22.45	24.91	< 33.01
2585.50	2600.50				22.48	24.94	< 33.01
2667.50	2682.50				22.61	25.07	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
2501.30	2513.30	10+15	P_1@0	S_0@0	23.55	26.01	< 33.01
2585.90	2597.90				23.58	26.04	< 33.01
2670.50	2682.50				23.57	26.03	< 33.01
2501.30	2513.30		P_1@25	S_0@0	23.56	26.02	< 33.01
2585.90	2597.90				23.59	26.05	< 33.01
2670.50	2682.50				23.65	26.11	< 33.01
2501.30	2513.30		P_1@49	S_0@0	23.58	26.04	< 33.01
2585.90	2597.90				23.52	25.98	< 33.01
2670.50	2682.50				23.74	26.20	< 33.01
2501.30	2513.30		P_50@0	S_75@0	22.44	24.90	< 33.01
2585.90	2597.90				22.50	24.96	< 33.01
2670.50	2682.50				22.59	25.05	< 33.01
2503.50	2515.50	15+10	P_1@0	S_0@0	23.61	26.07	< 33.01
2588.10	2600.10				23.66	26.12	< 33.01
2672.70	2684.70				23.62	26.08	< 33.01
2503.50	2515.50		P_1@38	S_0@0	23.52	25.98	< 33.01
2588.10	2600.10				23.65	26.11	< 33.01
2672.70	2684.70				23.67	26.13	< 33.01
2503.50	2515.50		P_1@74	S_0@0	23.68	26.14	< 33.01
2588.10	2600.10				23.63	26.09	< 33.01
2672.70	2684.70				23.88	26.34	< 33.01
2503.50	2515.50		P_75@0	S_50@0	22.44	24.90	< 33.01
2588.10	2600.10				22.48	24.94	< 33.01
2672.70	2684.70				22.65	25.11	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2506.00	2525.80	20+20	P_1@0	S_0@0	23.15	25.61	< 33.01
2583.10	2602.90				23.27	25.73	< 33.01
2660.20	2680.00				23.21	25.67	< 33.01
2506.00	2525.80		P_1@49	S_0@0	23.38	25.84	< 33.01
2583.10	2602.90				23.35	25.81	< 33.01
2660.20	2680.00				23.29	25.75	< 33.01
2506.00	2525.80		P_1@99	S_0@0	23.46	25.92	< 33.01
2583.10	2602.90				23.32	25.78	< 33.01
2660.20	2680.00				23.44	25.90	< 33.01
2506.00	2525.80		P_100@0	S_100@0	21.98	24.44	< 33.01
2583.10	2602.90				22.04	24.50	< 33.01
2660.20	2680.00				22.07	24.53	< 33.01
2506.00	2523.10	20+15	P_1@0	S_0@0	23.30	25.76	< 33.01
2585.60	2602.70				23.51	25.97	< 33.01
2665.10	2682.20				23.24	25.70	< 33.01
2506.00	2523.10		P_1@49	S_0@0	23.37	25.83	< 33.01
2585.60	2602.70				23.29	25.75	< 33.01
2665.10	2682.20				23.45	25.91	< 33.01
2506.00	2523.10		P_1@99	S_0@0	23.28	25.74	< 33.01
2585.60	2602.70				23.28	25.74	< 33.01
2665.10	2682.20				23.56	26.02	< 33.01
2506.00	2523.10		P_100@0	S_75@0	22.05	24.51	< 33.01
2585.60	2602.70				22.02	24.48	< 33.01
2665.10	2682.20				22.11	24.57	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2503.80	2520.90	15+20	P_1@0	S_0@0	22.89	25.35	< 33.01
2593.30	2600.40				22.87	25.33	< 33.01
2662.90	2680.00				22.84	25.30	< 33.01
2503.80	2520.90		P_1@38	S_0@0	22.87	25.33	< 33.01
2593.30	2600.40				22.88	25.34	< 33.01
2662.90	2680.00				22.96	25.42	< 33.01
2503.80	2520.90		P_1@74	S_0@0	22.63	25.09	< 33.01
2593.30	2600.40				22.71	25.17	< 33.01
2662.90	2680.00				22.92	25.38	< 33.01
2503.80	2520.90		P_75@0	S_100@0	21.47	23.93	< 33.01
2593.30	2600.40				21.50	23.96	< 33.01
2662.90	2680.00				21.58	24.04	< 33.01
2506.00	2520.40	20+10	P_1@0	S_0@0	23.42	25.88	< 33.01
2588.10	2602.50				23.37	25.83	< 33.01
2670.10	2684.50				23.28	25.74	< 33.01
2506.00	2520.40		P_1@49	S_0@0	23.27	25.73	< 33.01
2588.10	2602.50				23.36	25.82	< 33.01
2670.10	2684.50				23.41	25.87	< 33.01
2506.00	2520.40		P_1@99	S_0@0	23.19	25.65	< 33.01
2588.10	2602.50				23.31	25.77	< 33.01
2670.10	2684.50				23.62	26.08	< 33.01
2506.00	2520.40		P_100@0	S_50@0	21.99	24.45	< 33.01
2588.10	2602.50				22.04	24.50	< 33.01
2670.10	2684.50				22.16	24.62	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2501.50	2515.90	10+20	P_1@0	S_0@0	22.78	25.24	< 33.01
2583.60	2598.00				22.91	25.37	< 33.01
2665.60	2680.00				22.94	25.40	< 33.01
2501.50	2515.90		P_1@25	S_0@0	22.86	25.32	< 33.01
2583.60	2598.00				22.79	25.25	< 33.01
2665.60	2680.00				22.86	25.32	< 33.01
2501.50	2515.90		P_1@49	S_0@0	22.84	25.30	< 33.01
2583.60	2598.00				22.81	25.27	< 33.01
2665.60	2680.00				22.86	25.32	< 33.01
2501.50	2515.90		P_50@0	S_100@0	21.46	23.92	< 33.01
2583.60	2598.00				21.50	23.96	< 33.01
2665.60	2680.00				21.65	24.11	< 33.01
2506.00	2517.70	20+5	P_1@0	S_0@0	23.25	25.71	< 33.01
2590.50	2602.20				23.54	26.00	< 33.01
2675.00	2686.70				23.45	25.91	< 33.01
2506.00	2517.70		P_1@49	S_0@0	23.28	25.74	< 33.01
2590.50	2602.20				23.44	25.90	< 33.01
2675.00	2686.70				23.58	26.04	< 33.01
2506.00	2517.70		P_1@99	S_0@0	23.16	25.62	< 33.01
2590.50	2602.20				23.23	25.69	< 33.01
2675.00	2686.70				23.76	26.22	< 33.01
2506.00	2517.70		P_100@	S_25@0	21.99	24.45	< 33.01
2590.50	2602.20				21.97	24.43	< 33.01
2675.00	2686.70				22.28	24.74	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2499.30	2511.00	5+20	P_1@0	S_0@0	23.16	25.62	< 33.01
2583.80	2595.50				23.12	25.58	< 33.01
2668.30	2680.00				23.09	25.55	< 33.01
2499.30	2511.00		P_1@13	S_0@0	23.17	25.63	< 33.01
2583.80	2595.50				23.22	25.68	< 33.01
2668.30	2680.00				23.14	25.60	< 33.01
2499.30	2511.00		P_1@24	S_0@0	22.98	25.44	< 33.01
2583.80	2595.50				22.96	25.42	< 33.01
2668.30	2680.00				23.07	25.53	< 33.01
2499.30	2511.00		P_25@0	S_100@0	21.78	24.24	< 33.01
2583.80	2595.50				21.84	24.30	< 33.01
2668.30	2680.00				21.88	24.34	< 33.01
2503.50	2518.50	15+15	P_1@0	S_0@0	22.74	25.20	< 33.01
2585.50	2600.50				22.84	25.30	< 33.01
2667.50	2682.50				22.93	25.39	< 33.01
2503.50	2518.50		P_1@38	S_0@0	22.78	25.24	< 33.01
2585.50	2600.50				22.87	25.33	< 33.01
2667.50	2682.50				22.93	25.39	< 33.01
2503.50	2518.50		P_1@74	S_0@0	22.87	25.33	< 33.01
2585.50	2600.50				22.89	25.35	< 33.01
2667.50	2682.50				22.93	25.39	< 33.01
2503.50	2518.50		P_75@0	S_75@0	21.48	23.94	< 33.01
2585.50	2600.50				21.52	23.98	< 33.01
2667.50	2682.50				21.65	24.11	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
2501.30	2513.30	10+15	P_1@0	S_0@0	22.93	25.39	< 33.01
2585.90	2597.90				22.98	25.44	< 33.01
2670.50	2682.50				22.85	25.31	< 33.01
2501.30	2513.30		P_1@25	S_0@0	22.79	25.25	< 33.01
2585.90	2597.90				22.81	25.27	< 33.01
2670.50	2682.50				22.86	25.32	< 33.01
2501.30	2513.30		P_1@49	S_0@0	22.82	25.28	< 33.01
2585.90	2597.90				22.81	25.27	< 33.01
2670.50	2682.50				22.99	25.45	< 33.01
2501.30	2513.30		P_50@0	S_75@0	21.46	23.92	< 33.01
2585.90	2597.90				21.49	23.95	< 33.01
2670.50	2682.50				21.58	24.04	< 33.01
2503.50	2515.50	15+10	P_1@0	S_0@0	22.72	25.18	< 33.01
2588.10	2600.10				22.77	25.23	< 33.01
2672.70	2684.70				22.88	25.34	< 33.01
2503.50	2515.50		P_1@38	S_0@0	22.75	25.21	< 33.01
2588.10	2600.10				22.84	25.30	< 33.01
2672.70	2684.70				22.82	25.28	< 33.01
2503.50	2515.50		P_1@74	S_0@0	22.88	25.34	< 33.01
2588.10	2600.10				22.75	25.21	< 33.01
2672.70	2684.70				23.19	25.65	< 33.01
2503.50	2515.50		P_75@0	S_50@0	21.46	23.92	< 33.01
2588.10	2600.10				21.48	23.94	< 33.01
2672.70	2684.70				21.68	24.14	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2506.00	2525.80	20+20	P_1@0	S_0@0	22.35	24.81	< 33.01
2583.10	2602.90				22.46	24.92	< 33.01
2660.20	2680.00				22.32	24.78	< 33.01
2506.00	2525.80		P_1@49	S_0@0	22.41	24.87	< 33.01
2583.10	2602.90				22.34	24.80	< 33.01
2660.20	2680.00				22.31	24.77	< 33.01
2506.00	2525.80		P_1@99	S_0@0	22.24	24.70	< 33.01
2583.10	2602.90				22.23	24.69	< 33.01
2660.20	2680.00				22.54	25.00	< 33.01
2506.00	2525.80		P_100@0	S_100@0	21.73	24.19	< 33.01
2583.10	2602.90				22.02	24.48	< 33.01
2660.20	2680.00				22.03	24.49	< 33.01
2506.00	2523.10	20+15	P_1@0	S_0@0	22.47	24.93	< 33.01
2585.60	2602.70				22.64	25.10	< 33.01
2665.10	2682.20				22.34	24.80	< 33.01
2506.00	2523.10		P_1@49	S_0@0	22.34	24.80	< 33.01
2585.60	2602.70				22.36	24.82	< 33.01
2665.10	2682.20				22.72	25.18	< 33.01
2506.00	2523.10		P_1@99	S_0@0	22.58	25.04	< 33.01
2585.60	2602.70				22.41	24.87	< 33.01
2665.10	2682.20				22.71	25.17	< 33.01
2506.00	2523.10		P_100@0	S_75@0	21.71	24.17	< 33.01
2585.60	2602.70				22.00	24.46	< 33.01
2665.10	2682.20				22.09	24.55	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2503.80	2520.90	15+20	P_1@0	S_0@0	22.01	24.47	< 33.01
2593.30	2600.40				22.02	24.48	< 33.01
2662.90	2680.00				22.06	24.52	< 33.01
2503.80	2520.90		P_1@38	S_0@0	22.06	24.52	< 33.01
2593.30	2600.40				21.94	24.40	< 33.01
2662.90	2680.00				22.04	24.50	< 33.01
2503.80	2520.90		P_1@74	S_0@0	21.73	24.19	< 33.01
2593.30	2600.40				21.90	24.36	< 33.01
2662.90	2680.00				21.86	24.32	< 33.01
2503.80	2520.90		P_75@0	S_100@0	21.48	23.94	< 33.01
2593.30	2600.40				21.49	23.95	< 33.01
2662.90	2680.00				21.53	23.99	< 33.01
2506.00	2520.40	20+10	P_1@0	S_0@0	22.43	24.89	< 33.01
2588.10	2602.50				22.59	25.05	< 33.01
2670.10	2684.50				22.33	24.79	< 33.01
2506.00	2520.40		P_1@49	S_0@0	22.34	24.80	< 33.01
2588.10	2602.50				22.33	24.79	< 33.01
2670.10	2684.50				22.62	25.08	< 33.01
2506.00	2520.40		P_1@99	S_0@0	21.74	24.20	< 33.01
2588.10	2602.50				22.43	24.89	< 33.01
2670.10	2684.50				22.78	25.24	< 33.01
2506.00	2520.40		P_100@0	S_50@0	21.68	24.14	< 33.01
2588.10	2602.50				21.99	24.45	< 33.01
2670.10	2684.50				22.15	24.61	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2501.50	2515.90	10+20	P_1@0	S_0@0	21.92	24.38	< 33.01
2583.60	2598.00				21.96	24.42	< 33.01
2665.60	2680.00				22.05	24.51	< 33.01
2501.50	2515.90		P_1@25	S_0@0	21.91	24.37	< 33.01
2583.60	2598.00				21.97	24.43	< 33.01
2665.60	2680.00				22.08	24.54	< 33.01
2501.50	2515.90		P_1@49	S_0@0	22.04	24.50	< 33.01
2583.60	2598.00				21.95	24.41	< 33.01
2665.60	2680.00				22.04	24.50	< 33.01
2501.50	2515.90		P_50@0	S_100@0	21.47	23.93	< 33.01
2583.60	2598.00				21.51	23.97	< 33.01
2665.60	2680.00				21.59	24.05	< 33.01
2506.00	2517.70	20+5	P_1@0	S_0@0	22.43	24.89	< 33.01
2590.50	2602.20				22.20	24.66	< 33.01
2675.00	2686.70				22.67	25.13	< 33.01
2506.00	2517.70		P_1@49	S_0@0	22.33	24.79	< 33.01
2590.50	2602.20				22.26	24.72	< 33.01
2675.00	2686.70				22.44	24.90	< 33.01
2506.00	2517.70		P_1@99	S_0@0	22.42	24.88	< 33.01
2590.50	2602.20				22.25	24.71	< 33.01
2675.00	2686.70				22.78	25.24	< 33.01
2506.00	2517.70		P_100@	S_25@0	21.74	24.20	< 33.01
2590.50	2602.20				21.99	24.45	< 33.01
2675.00	2686.70				22.24	24.70	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2499.30	2511.00	5+20	P_1@0	S_0@0	22.27	24.73	< 33.01
2583.80	2595.50				22.21	24.67	< 33.01
2668.30	2680.00				22.23	24.69	< 33.01
2499.30	2511.00		P_1@13	S_0@0	22.13	24.59	< 33.01
2583.80	2595.50				22.18	24.64	< 33.01
2668.30	2680.00				22.26	24.72	< 33.01
2499.30	2511.00		P_1@24	S_0@0	22.02	24.48	< 33.01
2583.80	2595.50				22.28	24.74	< 33.01
2668.30	2680.00				22.21	24.67	< 33.01
2499.30	2511.00		P_25@0	S_100@0	21.46	23.92	< 33.01
2583.80	2595.50				21.76	24.22	< 33.01
2668.30	2680.00				21.86	24.32	< 33.01
2503.50	2518.50	15+15	P_1@0	S_0@0	21.92	24.38	< 33.01
2585.50	2600.50				21.98	24.44	< 33.01
2667.50	2682.50				21.92	24.38	< 33.01
2503.50	2518.50		P_1@38	S_0@0	21.95	24.41	< 33.01
2585.50	2600.50				21.98	24.44	< 33.01
2667.50	2682.50				22.07	24.53	< 33.01
2503.50	2518.50		P_1@74	S_0@0	21.95	24.41	< 33.01
2585.50	2600.50				22.07	24.53	< 33.01
2667.50	2682.50				22.04	24.50	< 33.01
2503.50	2518.50		P_75@0	S_75@0	21.51	23.97	< 33.01
2585.50	2600.50				21.51	23.97	< 33.01
2667.50	2682.50				21.58	24.04	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
2501.30	2513.30	10+15	P_1@0	S_0@0	21.96	24.42	< 33.01
2585.90	2597.90				21.93	24.39	< 33.01
2670.50	2682.50				21.92	24.38	< 33.01
2501.30	2513.30		P_1@25	S_0@0	21.84	24.30	< 33.01
2585.90	2597.90				21.92	24.38	< 33.01
2670.50	2682.50				22.04	24.50	< 33.01
2501.30	2513.30		P_1@49	S_0@0	21.76	24.22	< 33.01
2585.90	2597.90				21.87	24.33	< 33.01
2670.50	2682.50				21.98	24.44	< 33.01
2501.30	2513.30		P_50@0	S_75@0	21.43	23.89	< 33.01
2585.90	2597.90				21.53	23.99	< 33.01
2670.50	2682.50				21.55	24.01	< 33.01
2503.50	2515.50	15+10	P_1@0	S_0@0	21.77	24.23	< 33.01
2588.10	2600.10				21.88	24.34	< 33.01
2672.70	2684.70				21.92	24.38	< 33.01
2503.50	2515.50		P_1@38	S_0@0	22.02	24.48	< 33.01
2588.10	2600.10				21.93	24.39	< 33.01
2672.70	2684.70				21.98	24.44	< 33.01
2503.50	2515.50		P_1@74	S_0@0	22.01	24.47	< 33.01
2588.10	2600.10				22.06	24.52	< 33.01
2672.70	2684.70				22.25	24.71	< 33.01
2503.50	2515.50		P_75@0	S_50@0	21.48	23.94	< 33.01
2588.10	2600.10				21.52	23.98	< 33.01
2672.70	2684.70				21.63	24.09	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2506.00	2525.80	20+20	P_1@0	S_0@0	19.65	22.11	< 33.01
2583.10	2602.90				19.57	22.03	< 33.01
2660.20	2680.00				19.47	21.93	< 33.01
2506.00	2525.80		P_1@49	S_0@0	19.31	21.77	< 33.01
2583.10	2602.90				19.64	22.10	< 33.01
2660.20	2680.00				19.49	21.95	< 33.01
2506.00	2525.80		P_1@99	S_0@0	19.33	21.79	< 33.01
2583.10	2602.90				19.44	21.90	< 33.01
2660.20	2680.00				19.56	22.02	< 33.01
2506.00	2525.80		P_100@0	S_100@0	19.99	22.45	< 33.01
2583.10	2602.90				20.04	22.50	< 33.01
2660.20	2680.00				20.08	22.54	< 33.01
2506.00	2523.10	20+15	P_1@0	S_0@0	19.67	22.13	< 33.01
2585.60	2602.70				19.75	22.21	< 33.01
2665.10	2682.20				19.31	21.77	< 33.01
2506.00	2523.10		P_1@49	S_0@0	19.58	22.04	< 33.01
2585.60	2602.70				19.45	21.91	< 33.01
2665.10	2682.20				19.46	21.92	< 33.01
2506.00	2523.10		P_1@99	S_0@0	19.54	22.00	< 33.01
2585.60	2602.70				19.40	21.86	< 33.01
2665.10	2682.20				19.72	22.18	< 33.01
2506.00	2523.10		P_100@0	S_75@0	19.99	22.45	< 33.01
2585.60	2602.70				20.04	22.50	< 33.01
2665.10	2682.20				20.11	22.57	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2503.80	2520.90	15+20	P_1@0	S_0@0	18.98	21.44	< 33.01
2593.30	2600.40				19.32	21.78	< 33.01
2662.90	2680.00				18.82	21.28	< 33.01
2503.80	2520.90		P_1@38	S_0@0	18.96	21.42	< 33.01
2593.30	2600.40				19.01	21.47	< 33.01
2662.90	2680.00				19.06	21.52	< 33.01
2503.80	2520.90		P_1@74	S_0@0	18.86	21.32	< 33.01
2593.30	2600.40				18.89	21.35	< 33.01
2662.90	2680.00				19.78	22.24	< 33.01
2503.80	2520.90		P_75@0	S_100@0	19.47	21.93	< 33.01
2593.30	2600.40				19.48	21.94	< 33.01
2662.90	2680.00				19.57	22.03	< 33.01
2506.00	2520.40	20+10	P_1@0	S_0@0	19.61	22.07	< 33.01
2588.10	2602.50				19.75	22.21	< 33.01
2670.10	2684.50				19.29	21.75	< 33.01
2506.00	2520.40		P_1@49	S_0@0	19.52	21.98	< 33.01
2588.10	2602.50				19.33	21.79	< 33.01
2670.10	2684.50				19.63	22.09	< 33.01
2506.00	2520.40		P_1@99	S_0@0	19.45	21.91	< 33.01
2588.10	2602.50				19.43	21.89	< 33.01
2670.10	2684.50				19.75	22.21	< 33.01
2506.00	2520.40		P_100@0	S_50@0	19.97	22.43	< 33.01
2588.10	2602.50				20.03	22.49	< 33.01
2670.10	2684.50				20.14	22.60	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2501.50	2515.90	10+20	P_1@0	S_0@0	18.95	21.41	< 33.01
2583.60	2598.00				18.96	21.42	< 33.01
2665.60	2680.00				19.04	21.50	< 33.01
2501.50	2515.90		P_1@25	S_0@0	18.94	21.40	< 33.01
2583.60	2598.00				19.02	21.48	< 33.01
2665.60	2680.00				19.05	21.51	< 33.01
2501.50	2515.90		P_1@49	S_0@0	18.89	21.35	< 33.01
2583.60	2598.00				18.82	21.28	< 33.01
2665.60	2680.00				19.01	21.47	< 33.01
2501.50	2515.90		P_50@0	S_100@0	19.46	21.92	< 33.01
2583.60	2598.00				19.50	21.96	< 33.01
2665.60	2680.00				19.63	22.09	< 33.01
2506.00	2517.70	20+5	P_1@0	S_0@0	19.43	21.89	< 33.01
2590.50	2602.20				19.46	21.92	< 33.01
2675.00	2686.70				19.77	22.23	< 33.01
2506.00	2517.70		P_1@49	S_0@0	19.43	21.89	< 33.01
2590.50	2602.20				19.49	21.95	< 33.01
2675.00	2686.70				19.73	22.19	< 33.01
2506.00	2517.70		P_1@99	S_0@0	19.36	21.82	< 33.01
2590.50	2602.20				19.17	21.63	< 33.01
2675.00	2686.70				19.75	22.21	< 33.01
2506.00	2517.70		P_100@	S_25@0	19.98	22.44	< 33.01
2590.50	2602.20				20.01	22.47	< 33.01
2675.00	2686.70				20.25	22.71	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2499.30	2511.00	5+20	P_1@0	S_0@0	19.07	21.53	< 33.01
2583.80	2595.50				19.19	21.65	< 33.01
2668.30	2680.00				19.27	21.73	< 33.01
2499.30	2511.00		P_1@13	S_0@0	19.32	21.78	< 33.01
2583.80	2595.50				19.36	21.82	< 33.01
2668.30	2680.00				19.29	21.75	< 33.01
2499.30	2511.00		P_1@24	S_0@0	19.16	21.62	< 33.01
2583.80	2595.50				19.19	21.65	< 33.01
2668.30	2680.00				19.10	21.56	< 33.01
2499.30	2511.00		P_25@0	S_100@0	19.82	22.28	< 33.01
2583.80	2595.50				19.81	22.27	< 33.01
2668.30	2680.00				19.85	22.31	< 33.01
2503.50	2518.50	15+15	P_1@0	S_0@0	19.01	21.47	< 33.01
2585.50	2600.50				19.02	21.48	< 33.01
2667.50	2682.50				19.03	21.49	< 33.01
2503.50	2518.50		P_1@38	S_0@0	18.88	21.34	< 33.01
2585.50	2600.50				19.01	21.47	< 33.01
2667.50	2682.50				19.07	21.53	< 33.01
2503.50	2518.50		P_1@74	S_0@0	18.89	21.35	< 33.01
2585.50	2600.50				18.93	21.39	< 33.01
2667.50	2682.50				19.03	21.49	< 33.01
2503.50	2518.50		P_75@0	S_75@0	19.48	21.94	< 33.01
2585.50	2600.50				19.52	21.98	< 33.01
2667.50	2682.50				19.66	22.12	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
2501.30	2513.30	10+15	P_1@0	S_0@0	19.02	21.48	< 33.01
2585.90	2597.90				18.93	21.39	< 33.01
2670.50	2682.50				19.02	21.48	< 33.01
2501.30	2513.30		P_1@25	S_0@0	18.88	21.34	< 33.01
2585.90	2597.90				18.75	21.21	< 33.01
2670.50	2682.50				19.02	21.48	< 33.01
2501.30	2513.30		P_1@49	S_0@0	18.67	21.13	< 33.01
2585.90	2597.90				18.80	21.26	< 33.01
2670.50	2682.50				19.05	21.51	< 33.01
2501.30	2513.30		P_50@0	S_75@0	19.46	21.92	< 33.01
2585.90	2597.90				19.47	21.93	< 33.01
2670.50	2682.50				19.62	22.08	< 33.01
2503.50	2515.50	15+10	P_1@0	S_0@0	18.82	21.28	< 33.01
2588.10	2600.10				19.02	21.48	< 33.01
2672.70	2684.70				18.88	21.34	< 33.01
2503.50	2515.50		P_1@38	S_0@0	18.89	21.35	< 33.01
2588.10	2600.10				19.00	21.46	< 33.01
2672.70	2684.70				18.91	21.37	< 33.01
2503.50	2515.50		P_1@74	S_0@0	18.98	21.44	< 33.01
2588.10	2600.10				18.94	21.40	< 33.01
2672.70	2684.70				19.17	21.63	< 33.01
2503.50	2515.50		P_75@0	S_50@0	19.46	21.92	< 33.01
2588.10	2600.10				19.52	21.98	< 33.01
2672.70	2684.70				19.68	22.14	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

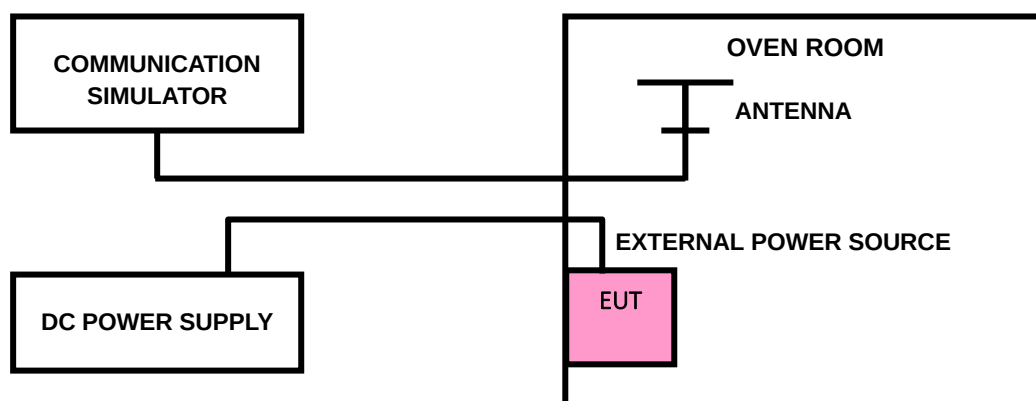
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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

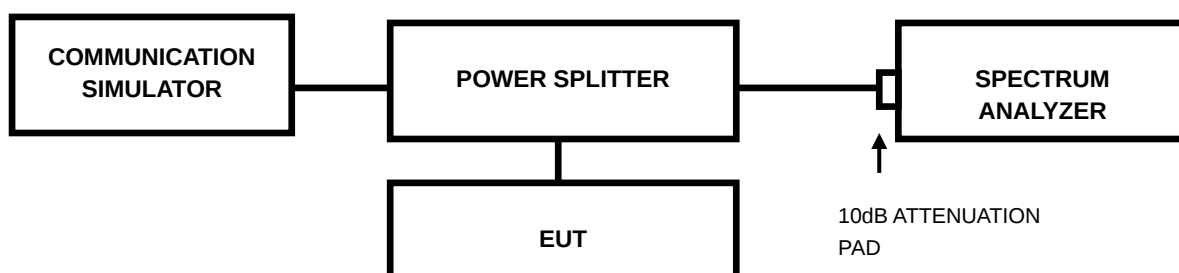
Please Refer to module RM520N-NA report.

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 RM520N-NA report.

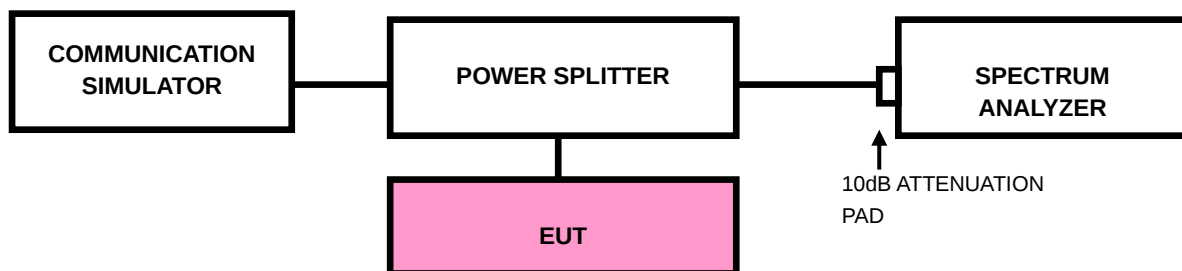
3.4 BAND EDGE MEASUREMENT

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 Iresolution 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 RM520N-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 .

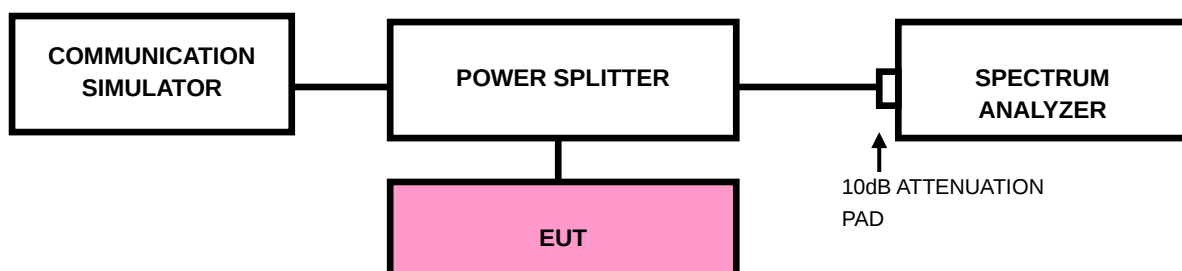
For: LTE Band7C/Band41C

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 RM520N-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,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

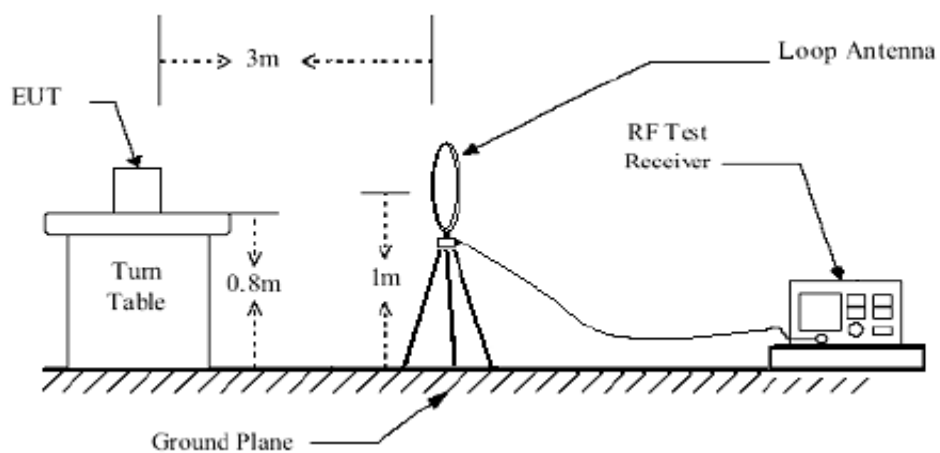
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

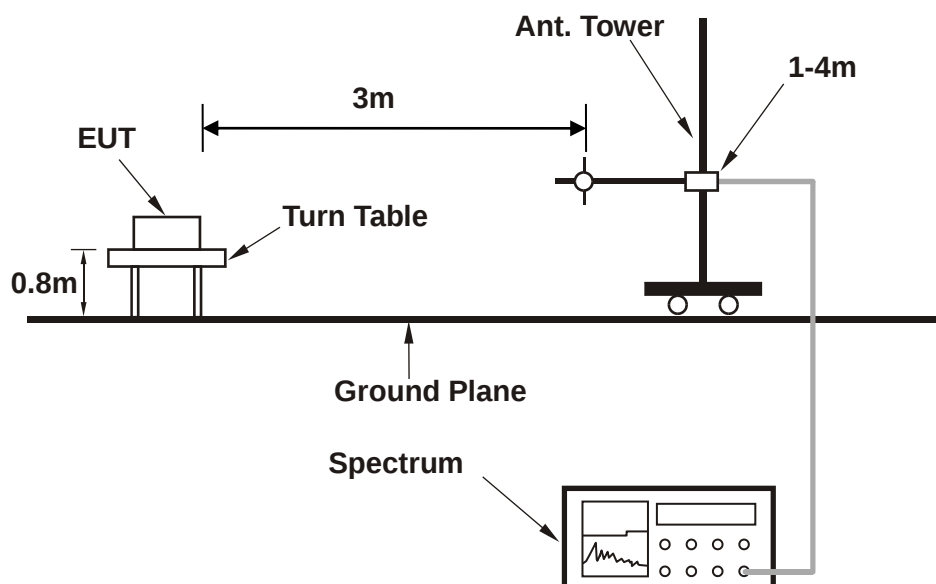
No deviation

3.6.4 TEST SETUP

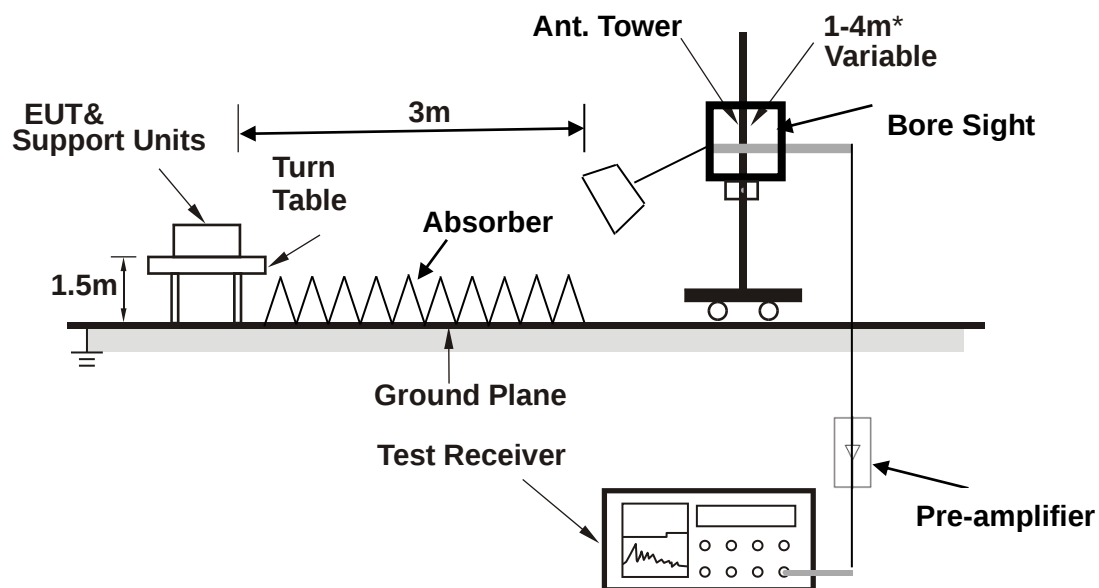
< Frequency Range below 30MHz >



< 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
1161.00	-79.41	-25.00	Vertical
1506.80	-75.99	-25.00	Vertical
2422.55	-72.44	-25.00	Vertical
3114.00	-81.77	-25.00	Vertical
3513.00	-79.86	-25.00	Vertical
4710.00	-87.62	-25.00	Vertical

LTE band CA_38C

Test result

ANT0 Channel : 38000

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1149.80	-79.47	-25	Vertical
1516.60	-76.16	-25	Vertical
2409.52	-73.51	-25	Vertical
3102.00	-81.83	-25	Vertical
3522.00	-79.79	-25	Vertical
4668.00	-87.51	-25	Vertical



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Test Report No.: PSU-NQN2502170213RF05

LTE band CA_41C

Test result

ANT0 Channel : 40620

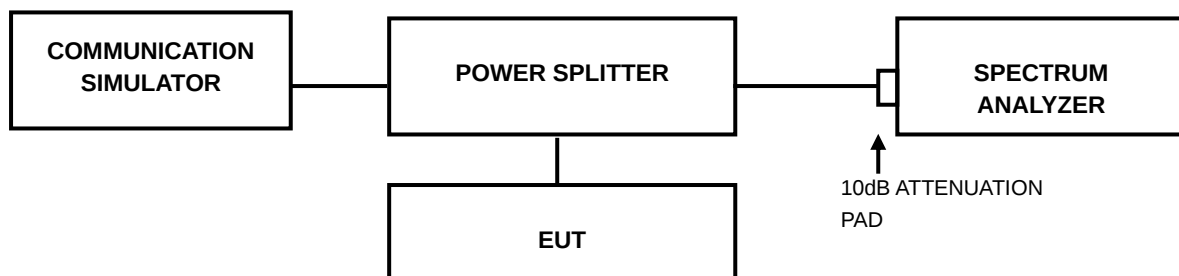
Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1145.60	-79.70	-25	Vertical
1541.80	-76.52	-25	Vertical
2454.02	-71.58	-25	Vertical
3096.00	-81.73	-25	Vertical
3516.00	-79.68	-25	Vertical
4704.00	-87.40	-25	Vertical

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 RM520N-NA report.



Test Report No.: PSU-NQN2502170213RF05

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, China

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 RM520N-NA report.

---END---