

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 27
47 CFR FCC Part 2

Report No.: RFCDVB-WTW-P22080669G-2

FCC ID: QYLFN990K12

Product: 5G NR Module

Brand: Getac

Model No.: FN990A28

Received Date: 2025/11/14

Test Date: 2025/12/3 ~ 2026/1/8

Issued Date: 2026/1/12

Applicant: Getac Technology Corporation.

Address: 5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 115018, Taiwan, R.O.C.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:

Approved by: Jeremy Lin , **Date:** 2026/1/12
Jeremy Lin / Project Engineer

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Prepared by : Polly Chien / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFCDVB-WTW-P22080669G-2	Original release.	2026/1/12

1 Certificate

Product: 5G NR Module

Brand: Getac

Test Model: FN990A28

Sample Status: Engineering sample

Applicant: Getac Technology Corporation.

Test Date: 2025/12/3 ~ 2026/1/8

Standard: 47 CFR FCC Part 27
47 CFR FCC Part 2

Measurement ANSI/TIA/EIA-603-E 2016

procedure: ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 971168 D02 Misc Rev Approv License Devices v02r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
Part 2.1046 Part 27.50(k) Part 27.50(j)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	N/A	Refer to Note
Part 27.50(k)(4) Part 27.50(j)(4)	Peak to Average Ratio	N/A	Refer to Note
Part 2.1049	Bandwidth	N/A	Refer to Note
Part 2.1051 Part 27.53(n) Part 27.53(l)	Conducted Spurious Emissions	N/A	Refer to Note
Part 2.1053 Part 27.53(n) Part 27.53(l)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -22.98 dB at 132.82 MHz
Part 2.1053 Part 27.53(n) Part 27.53(l)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -26.84 dB at 7909.98 MHz
Part 2.1055 Part 27.54	Frequency Stability	N/A	Refer to Note

Note:

- Only test item of Equivalent Isotropically Radiated Power and Radiated Spurious Emissions were performed for this report. Other testing data please refer to WWAN module (FCC ID: RI7FN990A28) certified report.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 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:

Parameter	Specification	Uncertainty (±)
Equivalent Isotropically Radiated Power	-	1.371 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	5G NR Module
Brand	Getac
Test Model	FN990A28
Status of EUT	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
EUT Category	Portable station
Modulation Type	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM
5G NR support SISO bands	n77 PC2, PC3 n78 PC2, PC3
Band Covered Information	n77 cover n78 (Part 27O) n77 cover n78 (Part 27Q)

Note:

1. The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Brand	Model	Difference
Tablet	Getac	K120G3	For marketing purpose
		K120Y (Y= 10 characters, Y can be 0-9, a-z, A-Z, "-", "_" or blank for marketing purpose and no impact safety related critical components and constructions.)	

2. The End-product uses following accessories.

Adapter 1		
Brand	Model	Specification
Chicony	A20-065N3A	I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 5.0V, 3.0A, 15.0W / 9V, 3A / 12V, 3A / 15V, 3A / 20.0V, 3.25A, 65.0W 1.45m non-shielded DC cable no core
Adapter 2		
Brand	Model	Specification
FSP	FSP065-RBBN3	I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 19.0Vdc, 3.42A, 65.0W 1.5m non-shielded DC cable no core
Battery 1		
Brand	Model	Specification
Getac	BP3S1P2100S-01	Rating: 11.1Vdc 2040mAh, 23Wh Typical Capacity: 2100mAh, 24Wh
Battery 2		
Brand	Model	Specification
Getac	BP4S1P3450P-01	Rating: 14.4Vdc 3300mAh, 48Wh Typical Capacity: 3450mAh, 50Wh
Touch Pen		
Brand	Model	Description
Getac	340142000064	2.8mm + 1500g Spring
K120 Keyboard Dock (Support Unit)		
Brand	Model	Description
Getac	K120-KeyBoard Dock 3.0	-

3. EUT Overview

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3455.01 ~ 3544.98	$\pi/2$ BPSK	0.106	20.24
		QPSK	0.114	20.56
		16QAM	0.047	16.7
		64QAM	0.046	16.65
		256QAM	0.037	15.66
15 MHz	3457.5 ~ 3542.49	$\pi/2$ BPSK	0.105	20.23
		QPSK	0.111	20.47
		16QAM	0.046	16.67
		64QAM	0.046	16.65
		256QAM	0.037	15.64
20 MHz	3460.02 ~ 3540	$\pi/2$ BPSK	0.106	20.25
		QPSK	0.113	20.53
		16QAM	0.046	16.67
		64QAM	0.046	16.63
		256QAM	0.036	15.62
30 MHz	3465 ~ 3534.99	$\pi/2$ BPSK	0.106	20.25
		QPSK	0.113	20.54
		16QAM	0.047	16.68
		64QAM	0.046	16.66
		256QAM	0.037	15.64
40 MHz	3470.01 ~ 3529.98	$\pi/2$ BPSK	0.106	20.24
		QPSK	0.113	20.53
		16QAM	0.047	16.71
		64QAM	0.046	16.67
		256QAM	0.037	15.65
50 MHz	3475.02 ~ 3525	$\pi/2$ BPSK	0.105	20.23
		QPSK	0.114	20.57
		16QAM	0.046	16.67
		64QAM	0.046	16.64
		256QAM	0.036	15.62
60 MHz	3480 ~ 3519.99	$\pi/2$ BPSK	0.107	20.29
		QPSK	0.114	20.56
		16QAM	0.047	16.7
		64QAM	0.046	16.65
		256QAM	0.036	15.61
70 MHz	3485.01 ~ 3514.98	$\pi/2$ BPSK	0.105	20.2
		QPSK	0.114	20.56
		16QAM	0.047	16.68
		64QAM	0.046	16.66
		256QAM	0.037	15.65

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
80 MHz	3490.02 ~ 3510	$\pi/2$ BPSK	0.105	20.21
		QPSK	0.112	20.5
		16QAM	0.047	16.68
		64QAM	0.046	16.65
		256QAM	0.037	15.65
90 MHz	3495 ~ 3504.99	$\pi/2$ BPSK	0.106	20.24
		QPSK	0.113	20.54
		16QAM	0.048	16.84
		64QAM	0.047	16.73
		256QAM	0.037	15.63
100 MHz	3500.01	$\pi/2$ BPSK	0.11	20.4
		QPSK	0.117	20.68
		16QAM	0.047	16.68
		64QAM	0.046	16.66
		256QAM	0.037	15.74

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3705 ~ 3975	$\pi/2$ BPSK	0.106	20.25
		QPSK	0.124	20.93
		16QAM	0.052	17.2
		64QAM	0.052	17.17
		256QAM	0.043	16.3
15 MHz	3707.52 ~ 3972.48	$\pi/2$ BPSK	0.104	20.18
		QPSK	0.122	20.85
		16QAM	0.052	17.18
		64QAM	0.052	17.18
		256QAM	0.043	16.33
20 MHz	3710.01 ~ 3969.99	$\pi/2$ BPSK	0.105	20.2
		QPSK	0.122	20.87
		16QAM	0.053	17.21
		64QAM	0.052	17.12
		256QAM	0.043	16.36
30 MHz	3715.02 ~ 3964.98	$\pi/2$ BPSK	0.105	20.21
		QPSK	0.124	20.93
		16QAM	0.053	17.21
		64QAM	0.051	17.1
		256QAM	0.043	16.34
40 MHz	3720 ~ 3960	$\pi/2$ BPSK	0.104	20.18
		QPSK	0.123	20.9
		16QAM	0.053	17.22
		64QAM	0.052	17.13
		256QAM	0.043	16.35

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
50 MHz	3725.01 ~ 3954.99	$\pi/2$ BPSK	0.104	20.15
		QPSK	0.122	20.88
		16QAM	0.053	17.22
		64QAM	0.052	17.16
		256QAM	0.043	16.36
60 MHz	3730.02 ~ 3949.98	$\pi/2$ BPSK	0.105	20.23
		QPSK	0.124	20.93
		16QAM	0.052	17.17
		64QAM	0.052	17.16
		256QAM	0.043	16.33
70 MHz	3735 ~ 3945	$\pi/2$ BPSK	0.105	20.23
		QPSK	0.122	20.88
		16QAM	0.053	17.24
		64QAM	0.052	17.16
		256QAM	0.043	16.34
80 MHz	3740.01 ~ 3939.99	$\pi/2$ BPSK	0.106	20.25
		QPSK	0.124	20.93
		16QAM	0.053	17.22
		64QAM	0.052	17.14
		256QAM	0.043	16.3
90 MHz	3745.02 ~ 3934.98	$\pi/2$ BPSK	0.106	20.25
		QPSK	0.122	20.88
		16QAM	0.053	17.24
		64QAM	0.052	17.13
		256QAM	0.043	16.33
100 MHz	3750 ~ 3930	$\pi/2$ BPSK	0.108	20.35
		QPSK	0.127	21.03
		16QAM	0.054	17.34
		64QAM	0.054	17.29
		256QAM	0.044	16.46

- The 5GNR n77 、n78 support PC2 and PC3 , after verification, PC2 was the worst case and chosen for final test.
- For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.
- The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. 0		Ant. 1	
Antenna Type	PIFA	Antenna Type	PIFA
Connector Type	I-PEX	Connector Type	I-PEX
Brand	AWAN	Brand	AWAN
Model	422144600011	Model	422144600028

Band		Freq. Range (MHz)	Ant. 0 Gain (dBi)	Ant. 1 Gain (dBi)
n48	1TX (Ant. 0)	3550 ~ 3700	-5.61	-7.14
n77	1TX (Ant. 0)	3300 ~ 4200	-5.41	-6.65
n78	1TX (Ant. 0)	3300 ~ 3980	-5.43	-6.65

*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The EUT has the following Battery: Battery 1 / Battery 2. Pre-scan these batteries and find the worst case as a representative test condition. 2. The EUT has the following Adapter: Adapter 1 / Adapter 2. Pre-scan these batteries and find the worst case as a representative test condition. 3. EUT can be used in the following ways: X-axis / Y-axis / Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. Battery Worst Condition: Battery 2 2. Adapter Worst Condition: Adapter 1 3. X-axis/ Y-axis/ Z-axis Worst Condition: X-axis (Tablet Mode)

3.3.1 NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	A	630334(3455.01 MHz) 633334(3500.01 MHz) 636332(3544.98 MHz)	10 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		630500(3457.50 MHz) 633334(3500.01 MHz) 636166(3542.49 MHz)	15 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		630668(3460.02 MHz) 633334(3500.01 MHz) 636000(3540.00 MHz)	20 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		631000(3465.00 MHz) 633334(3500.01 MHz) 635666(3534.99 MHz)	30 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		631334(3470.01 MHz) 633334(3500.01 MHz) 635332(3529.98 MHz)	40 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		631668(3475.02 MHz) 633334(3500.01 MHz) 635000(3525.00 MHz)	50 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		632000(3480.00 MHz) 633334(3500.01 MHz) 634666(3519.99 MHz)	60 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		632334(3485.01 MHz) 633334(3500.01 MHz) 634332(3514.98 MHz)	70 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	A	632668(3490.02 MHz) 633334(3500.01 MHz) 634000(3510.00 MHz)	80 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		633000(3495.00 MHz) 633334(3500.01 MHz) 633666(3504.99 MHz)	90 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		633334(3500.01 MHz)	100 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Radiated Spurious Emissions below 1GHz	A, B	633334(3500.01 MHz)	100 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	A	630334(3455.01 MHz) 633334(3500.01 MHz) 636332(3544.98 MHz)	10 MHz	QPSK	1 RB
		631668(3475.02 MHz) 633334(3500.01 MHz) 635000(3525.00 MHz)	50 MHz	QPSK	1 RB
		633334(3500.01 MHz)	100 MHz	QPSK	1 RB
EUT Configure Mode:	A	Tablet Mode			
	B	NB Mode			

3.3.2 NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	A	647000(3705.00 MHz) 656000(3840.00 MHz) 665000(3975.00 MHz)	10 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		647168(3707.52 MHz) 656000(3840.00 MHz) 664832(3972.48 MHz)	15 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		647334(3710.01 MHz) 656000(3840.00 MHz) 664666(3969.99 MHz)	20 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		647668(3715.02 MHz) 656000(3840.00 MHz) 664332(3964.98 MHz)	30 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		648000(3720.00 MHz) 656000(3840.00 MHz) 664000(3960.00 MHz)	40 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		648334(3725.01 MHz) 656000(3840.00 MHz) 663666(3954.99 MHz)	50 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		648668(3730.02 MHz) 656000(3840.00 MHz) 663332(3949.98 MHz)	60 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		649000(3735.00 MHz) 656000(3840.00 MHz) 663000(3945.00 MHz)	70 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		649334(3740.01 MHz) 656000(3840.00 MHz) 662666(3939.99 MHz)	80 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		649668(3745.02 MHz) 656000(3840.00 MHz) 662332(3934.98 MHz)	90 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		650000(3750.00 MHz) 656000(3840.00 MHz) 662000(3930.00 MHz)	100 MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB

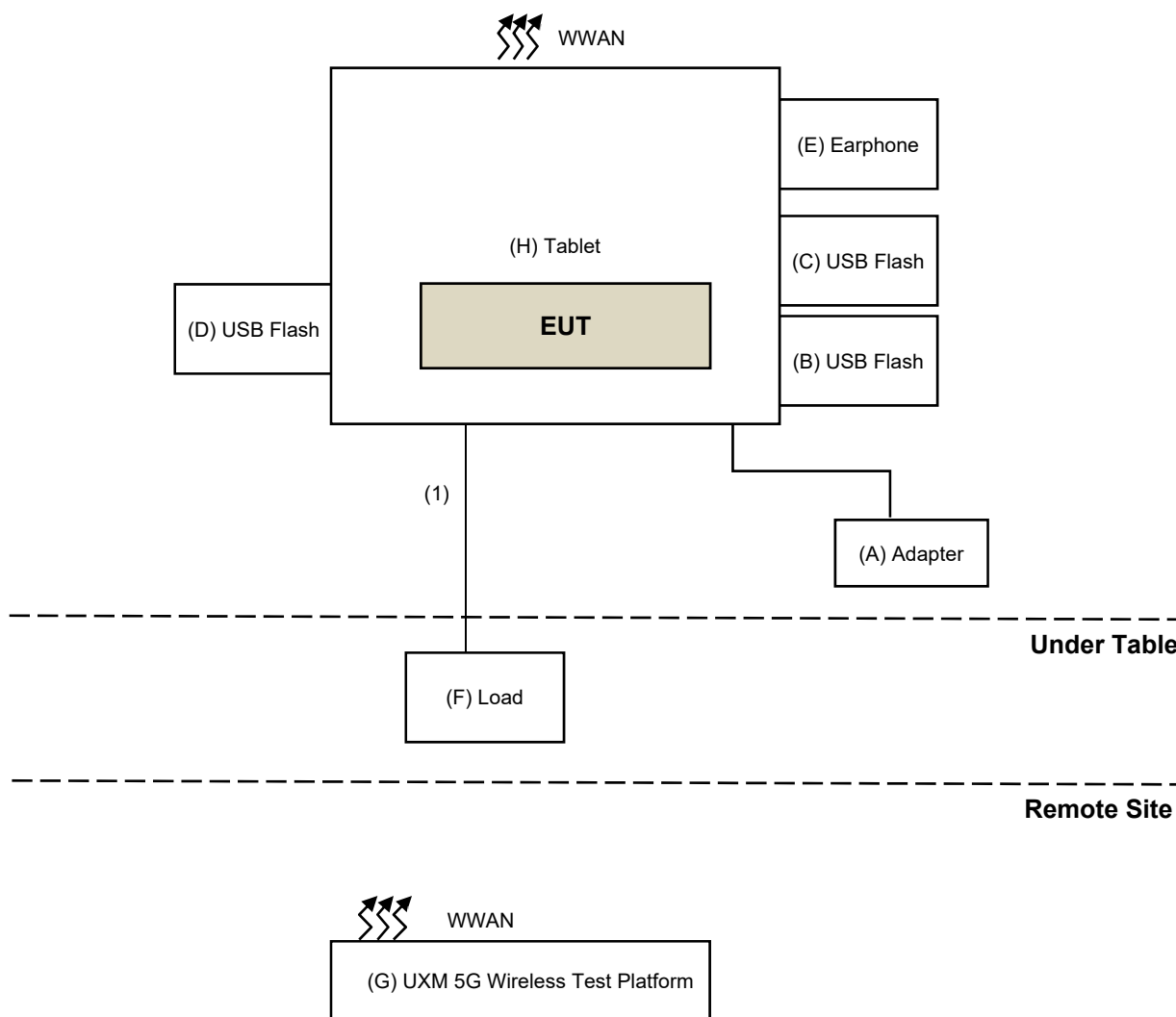
Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	A, B	650000(3750.00 MHz)	100 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	A	647000(3705.00 MHz) 656000(3840.00 MHz) 665000(3975.00 MHz)	10 MHz	QPSK	1 RB
		648334(3725.01 MHz) 656000(3840.00 MHz) 663666(3954.99 MHz)	50 MHz	QPSK	1 RB
		650000(3750.00 MHz) 656000(3840.00 MHz) 662000(3930.00 MHz)	100 MHz	QPSK	1 RB
EUT Configure Mode:	A	Tablet Mode			
	B	NB Mode			

3.4 Test Program Used and Operation Descriptions

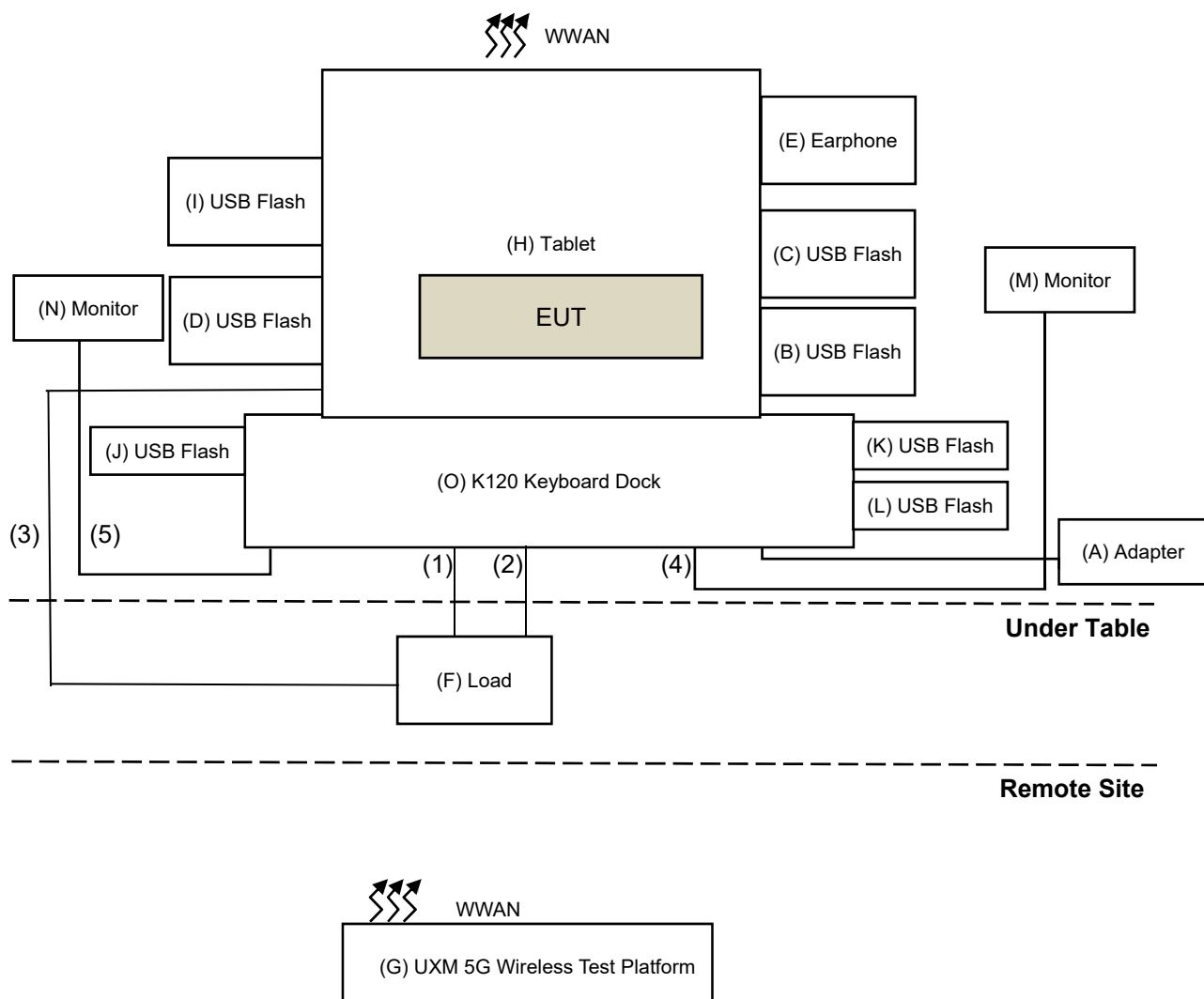
There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices

Mode A



Mode B



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	Chicony	A20-065N3A	N/A	N/A	Supplied by applicant
B	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
C	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
D	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
E	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab
F	Load	N/A	N/A	N/A	N/A	Provided by Lab
G	UXM 5G Wireless Test Platform	Keysight	E7515B	MY60102115	N/A	Provided by Lab
H	Tablet	Getac	K120G3	N/A	N/A	Supplied by applicant
I	USB Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab
J	USB Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab
K	USB Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab
L	USB Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab
M	Monitor	DELL	A14S2421HSXmTW	CN-01KFWF-WSL00-24C-714B	NA	Provided by Lab
N	Monitor	DELL	A14S2421HSXmTW	CN-01KFWF-WSL00-24C-711B	NA	Provided by Lab
O	K120 Keyboard Dock	Getac	K120-Detachable Keyboard 3.0	NA	NA	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	1.5	N	0	Provided by Lab
2	RJ-45 Cable	1	1.5	N	0	Provided by Lab
3	Console Cable	1	1.5	N	0	Provided by Lab
4	HDMI Cable	1	1.5	N	0	Provided by Lab
5	DP Cable	1	1.5	N	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030B	MY57140938	2025/3/24	2026/3/23
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2025/5/26	2026/5/25

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/12/3 ~ 2025/12/5

4.2 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2025/9/16	2026/9/15
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
Preamplifier Agilent	8447D	2944A10638	2025/4/27	2026/4/26
Preamplifier EMCI	EMC001340	980201	2025/9/21	2026/9/20
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2025/4/27	2026/4/26
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/12/3 ~ 2026/1/8

4.3 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170243	2025/11/9	2026/11/8
Preamplifier Agilent	8449B	3008A02367	2025/1/5	2026/1/4
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2025/1/5	2026/1/4
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2025/1/5	2026/1/4
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/12/3

5 Limits of Test Items

5.1 Equivalent Isotropically Radiated Power

For NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz):

Mobile and portable stations are limited to 1 Watt EIRP.

For NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz):

Mobile devices are limited to 1Watt (30 dBm) EIRP.

5.2 Radiated Spurious Emissions below 1GHz

For NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz):

According to FCC 47 CFR part 27.53(l), for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

For NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz):

According to FCC 47 CFR part 27.53(n), for 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.

5.3 Radiated Spurious Emissions above 1GHz

For NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz):

According to FCC 47 CFR part 27.53(l), for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

For NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz):

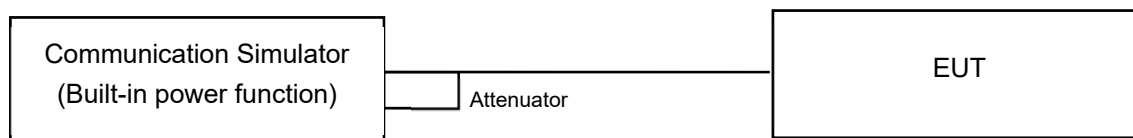
According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

6 Test Arrangements

6.1 Equivalent Isotropically Radiated Power

6.1.1 Test Setup

Conducted Power Measurement:



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by test software or key-in commands to set data modulation and maximum power using WWAN technology and link to spectrum analyzer measurements. Set the EUT to transmit under low, middle and high channel and record the power level shown on spectrum analyzer. Power measurements use detector average (rms).

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

$$\text{ERP} = P_{\text{Meas}} + G_T - 2.15$$

where

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

(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

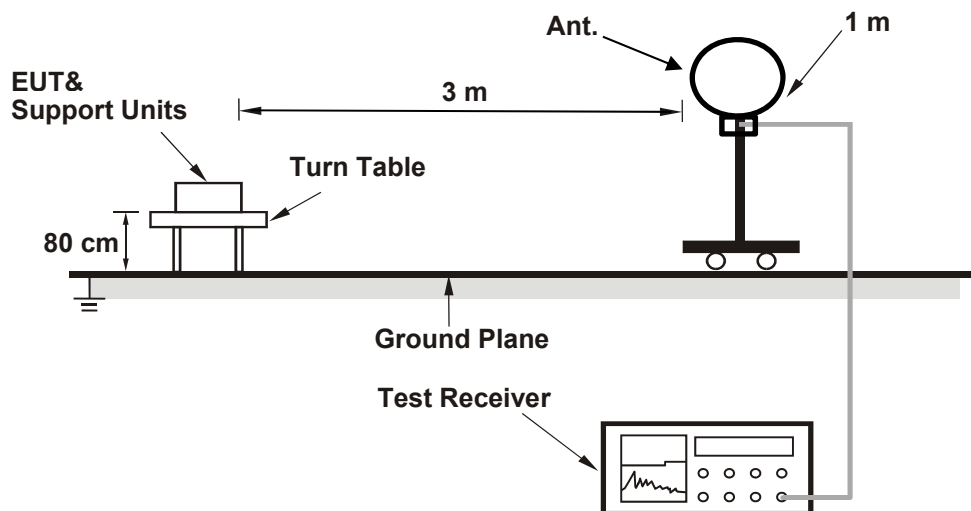
P_{Meas} measured transmitter output power or PSD, in dBm or dBW

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

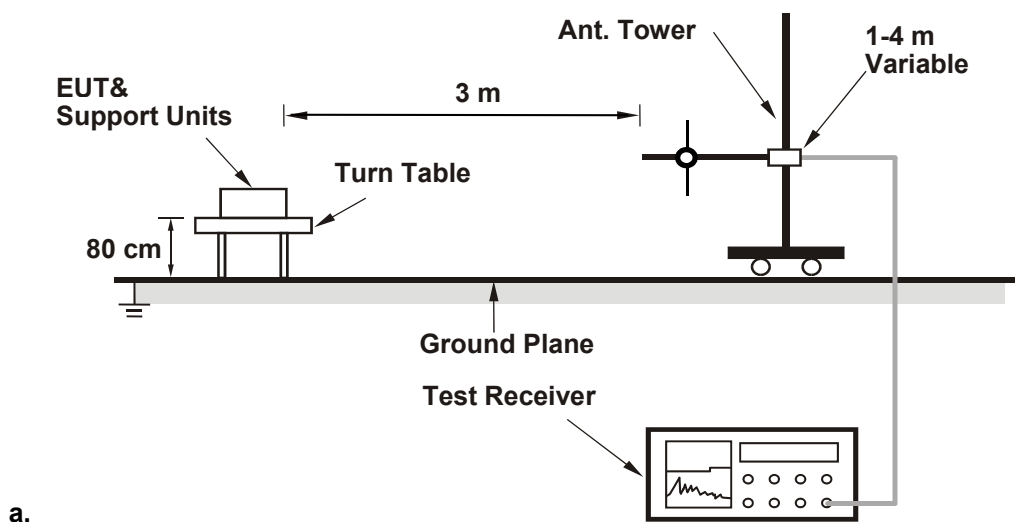
6.2 Radiated Spurious Emissions below 1GHz

6.2.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.2.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

- a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following ANSI C63.26 section 5.5 and 5.2.7
- e. $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- f. $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

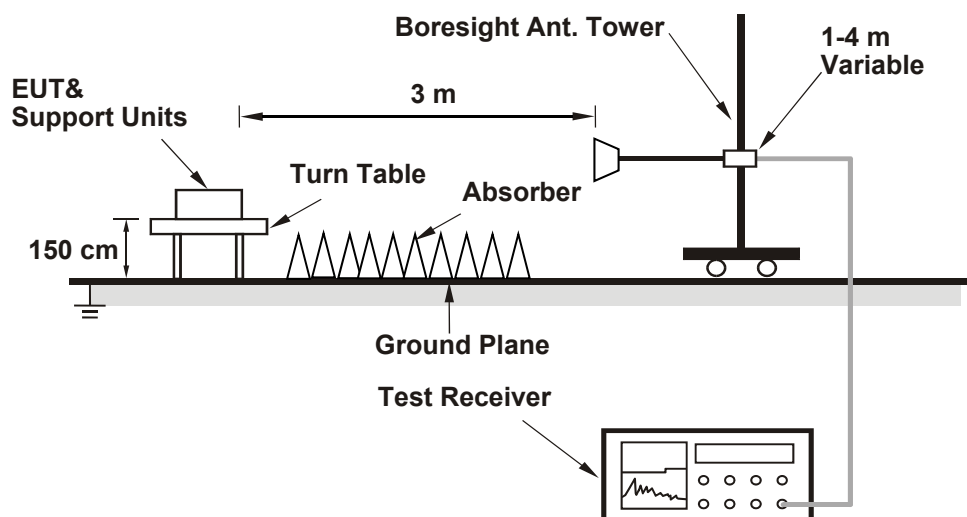
Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
2. The amplitude of spurious emissions in the range 9 kHz to 30 MHz which are attenuated more than 20 dB below the permissible value need not be reported.

6.3 Radiated Spurious Emissions above 1GHz

6.3.1 Test Setup

For radiated emission above 1 GHz



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

6.3.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

- In the semi-anechoic chamber, EUT placed on the 1.5 m 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- Following ANSI C63.26 section 5.5 and 5.2.7
- $EIRP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.

7 Test Results of Test Item

7.1 Equivalent Isotropically Radiated Power

Environmental Conditions:	23°C, 62% RH	Tested By:	Charles Hsiao
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7.1.1 NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 630334	CH 633334	CH 636332
			3455.01 MHz	3500.01 MHz	3544.98 MHz
$\pi/2$ BPSK	1	1	25.63	25.65	25.64
	1	0	22.99	23.06	23.02
QPSK	1	1	25.89	25.97	25.90
	1	0	22.04	22.06	22.08
	1	11	25.64	25.76	25.69
	1	22	25.59	25.51	25.54
	1	23	22.51	22.54	22.51
	12	0	24.80	24.77	24.70
	12	6	25.61	25.66	25.74
	12	12	24.58	24.63	24.64
	24	0	24.70	24.67	24.61
16QAM	1	0	22.11	22.06	22.08
64QAM	1	0	22.06	22.02	22.05
256QAM	1	0	21.05	21.07	21.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.99	25.65	17.58	20.24	30
QPSK	22.04	25.97	16.63	20.56	30
16QAM	22.06	22.11	16.65	16.7	30
64QAM	22.02	22.06	16.61	16.65	30
256QAM	21.03	21.07	15.62	15.66	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 630500	CH 633334	CH 636166
			3457.5 MHz	3500.01 MHz	3542.49 MHz
$\pi/2$ BPSK	1	1	25.61	25.64	25.61
	1	0	23.08	22.98	23.02
QPSK	1	1	25.88	25.88	25.85
	1	0	22.06	22.05	22.03
	1	19	25.67	25.66	25.74
	1	36	25.53	25.53	25.53
	1	37	22.50	22.48	22.50
	18	0	24.80	24.68	24.70
	18	10	25.70	25.64	25.72
	18	20	24.54	24.54	24.58
	36	0	24.67	24.69	24.70
16QAM	1	0	22.02	22.05	22.08
64QAM	1	0	22.01	22.03	22.06
256QAM	1	0	21.01	21.05	21.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.98	25.64	17.57	20.23	30
QPSK	22.03	25.88	16.62	20.47	30
16QAM	22.02	22.08	16.61	16.67	30
64QAM	22.01	22.06	16.6	16.65	30
256QAM	21.01	21.05	15.6	15.64	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 630668	CH 633334	CH 636000
			3460.02 MHz	3500.01 MHz	3540 MHz
$\pi/2$ BPSK	1	1	25.61	25.66	25.56
	1	0	22.95	22.95	23.01
QPSK	1	1	25.86	25.94	25.93
	1	0	22.05	22.03	22.09
	1	26	25.67	25.74	25.71
	1	49	25.50	25.58	25.50
	1	50	22.49	22.48	22.47
	25	0	24.81	24.81	24.82
	25	13	25.70	25.68	25.76
	25	26	24.59	24.64	24.61
	50	0	24.64	24.70	24.64
16QAM	1	0	22.08	22.05	22.06
64QAM	1	0	22.03	22.01	22.04
256QAM	1	0	21.03	21.02	21.01

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.95	25.66	17.54	20.25	30
QPSK	22.03	25.94	16.62	20.53	30
16QAM	22.05	22.08	16.64	16.67	30
64QAM	22.01	22.04	16.6	16.63	30
256QAM	21.01	21.03	15.6	15.62	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 631000	CH 633334	CH 635666
			3465 MHz	3500.01 MHz	3534.99 MHz
$\pi/2$ BPSK	1	1	25.66	25.65	25.61
	1	0	22.94	23.01	22.94
QPSK	1	1	25.91	25.95	25.86
	1	0	22.03	22.03	22.01
	1	39	25.67	25.79	25.73
	1	76	25.60	25.59	25.50
	1	77	22.54	22.47	22.43
	36	0	24.76	24.78	24.71
	36	21	25.63	25.73	25.64
	36	42	24.60	24.59	24.65
	75	0	24.65	24.75	24.71
16QAM	1	0	22.08	22.09	22.07
64QAM	1	0	22.06	22.07	22.06
256QAM	1	0	21.05	21.04	21.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.94	25.66	17.53	20.25	30
QPSK	22.01	25.95	16.6	20.54	30
16QAM	22.07	22.09	16.66	16.68	30
64QAM	22.06	22.07	16.65	16.66	30
256QAM	21.03	21.05	15.62	15.64	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 631334	CH 633334	CH 635332
			3470.01 MHz	3500.01 MHz	3529.98 MHz
$\pi/2$ BPSK	1	1	25.58	25.58	25.65
	1	0	23.06	23.08	23.02
QPSK	1	1	25.94	25.92	25.90
	1	0	22.05	22.07	22.03
	1	53	25.77	25.68	25.79
	1	104	25.52	25.58	25.51
	1	105	22.54	22.40	22.50
	50	0	24.68	24.75	24.74
	50	28	25.68	25.69	25.64
	50	56	24.65	24.63	24.59
	100	0	24.63	24.60	24.65
16QAM	1	0	22.12	22.09	22.09
64QAM	1	0	22.06	22.08	22.04
256QAM	1	0	21.03	21.02	21.06

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	23.02	25.65	17.61	20.24	30
QPSK	22.03	25.94	16.62	20.53	30
16QAM	22.09	22.12	16.68	16.71	30
64QAM	22.04	22.08	16.63	16.67	30
256QAM	21.02	21.06	15.61	15.65	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 50 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 631668	CH 633334	CH 635000
			3475.02 MHz	3500.01 MHz	3525 MHz
$\pi/2$ BPSK	1	1	25.60	25.59	25.64
	1	0	22.95	22.98	23.03
QPSK	1	1	25.97	25.84	25.98
	1	0	22.01	22.03	22.02
	1	67	25.65	25.68	25.71
	1	131	25.56	25.57	25.58
	1	132	22.47	22.42	22.44
	64	0	24.68	24.82	24.67
	64	35	25.69	25.62	25.69
	64	69	24.65	24.63	24.52
	128	0	24.63	24.65	24.71
16QAM	1	0	22.06	22.08	22.05
64QAM	1	0	22.03	22.05	22.03
256QAM	1	0	21.03	21.02	21.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.95	25.64	17.54	20.23	30
QPSK	22.01	25.98	16.6	20.57	30
16QAM	22.05	22.08	16.64	16.67	30
64QAM	22.03	22.05	16.62	16.64	30
256QAM	21.02	21.03	15.61	15.62	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 60 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 632000	CH 633334	CH 634666
			3480 MHz	3500.01 MHz	3519.99 MHz
$\pi/2$ BPSK	1	1	25.70	25.64	25.67
	1	0	22.97	23.06	23.04
QPSK	1	1	25.90	25.90	25.97
	1	0	22.02	22.04	22.05
	1	81	25.78	25.79	25.66
	1	160	25.60	25.54	25.58
	1	161	22.52	22.50	22.40
	81	0	24.69	24.79	24.67
	81	41	25.69	25.65	25.72
	81	81	24.54	24.59	24.60
	162	0	24.74	24.67	24.70
16QAM	1	0	22.11	22.04	22.08
64QAM	1	0	22.06	22.01	22.04
256QAM	1	0	21.02	21.01	21.01

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.97	25.7	17.56	20.29	30
QPSK	22.02	25.97	16.61	20.56	30
16QAM	22.04	22.11	16.63	16.7	30
64QAM	22.01	22.06	16.6	16.65	30
256QAM	21.01	21.02	15.6	15.61	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 70 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 632334	CH 633334	CH 634332
			3485.01 MHz	3500.01 MHz	3514.98 MHz
$\pi/2$ BPSK	1	1	25.61	25.58	25.58
	1	0	23.06	23.07	22.95
QPSK	1	1	25.85	25.97	25.97
	1	0	22.02	22.07	22.04
	1	95	25.67	25.74	25.71
	1	187	25.54	25.54	25.58
	1	188	22.47	22.39	22.45
	90	0	24.75	24.77	24.73
	90	50	25.74	25.62	25.68
	90	99	24.56	24.59	24.57
	180	0	24.66	24.68	24.60
16QAM	1	0	22.07	22.09	22.01
64QAM	1	0	22.06	22.07	22.07
256QAM	1	0	21.00	21.06	21.04

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.95	25.61	17.54	20.2	30
QPSK	22.02	25.97	16.61	20.56	30
16QAM	22.01	22.09	16.6	16.68	30
64QAM	22.06	22.07	16.65	16.66	30
256QAM	21	21.06	15.59	15.65	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 80 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 632668	CH 633334	CH 634000
			3490.02 MHz	3500.01 MHz	3510 MHz
$\pi/2$ BPSK	1	1	25.56	25.60	25.62
	1	0	23.01	22.95	23.09
QPSK	1	1	25.87	25.91	25.89
	1	0	22.06	22.08	22.09
	1	109	25.67	25.66	25.77
	1	215	25.58	25.52	25.59
	1	216	22.45	22.51	22.50
	108	0	24.81	24.79	24.76
	108	55	25.69	25.72	25.71
	108	109	24.60	24.65	24.55
	216	0	24.75	24.66	24.68
16QAM	1	0	22.08	22.09	22.06
64QAM	1	0	22.04	22.06	22.01
256QAM	1	0	21.01	21.06	21.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.95	25.62	17.54	20.21	30
QPSK	22.06	25.91	16.65	20.5	30
16QAM	22.06	22.09	16.65	16.68	30
64QAM	22.01	22.06	16.6	16.65	30
256QAM	21.01	21.06	15.6	15.65	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 90 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 633000	CH 633334	CH 633666
			3495 MHz	3500.01 MHz	3504.99 MHz
$\pi/2$ BPSK	1	1	25.58	25.65	25.61
	1	0	23.03	22.97	23.05
QPSK	1	1	25.95	25.89	25.92
	1	0	22.04	22.01	22.03
	1	123	25.76	25.71	25.74
	1	243	25.51	25.50	25.56
	1	244	22.45	22.40	22.45
	120	0	24.69	24.76	24.72
	120	63	25.66	25.67	25.74
	120	125	24.59	24.57	24.58
	243	0	24.60	24.68	24.68
16QAM	1	0	22.18	22.23	22.25
64QAM	1	0	22.06	22.11	22.14
256QAM	1	0	21.03	21.04	21.04

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.97	25.65	17.56	20.24	30
QPSK	22.01	25.95	16.6	20.54	30
16QAM	22.18	22.25	16.77	16.84	30
64QAM	22.06	22.14	16.65	16.73	30
256QAM	21.03	21.04	15.62	15.63	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 100 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 633334
			3500.01 MHz
$\pi/2$ BPSK	1	1	25.81
	1	0	23.19
QPSK	1	1	26.09
	1	0	22.04
	1	137	25.89
	1	271	25.70
	1	272	22.64
	135	0	24.92
	135	69	25.86
	135	138	24.75
	270	0	24.85
16QAM	1	0	22.09
64QAM	1	0	22.07
256QAM	1	0	21.15

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	23.19	25.81	17.78	20.4	30
QPSK	22.04	26.09	16.63	20.68	30
16QAM	22.09	22.09	16.68	16.68	30
64QAM	22.07	22.07	16.66	16.66	30
256QAM	21.15	21.15	15.74	15.74	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.2 NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 647000	CH 656000	CH 665000
			3705 MHz	3840 MHz	3975 MHz
$\pi/2$ BPSK	1	1	25.66	25.51	25.64
	1	0	23.05	22.99	22.98
QPSK	1	1	26.34	26.21	26.31
	1	0	22.57	22.53	22.55
	1	11	26.22	26.10	26.13
	1	22	25.94	25.94	25.96
	1	23	22.78	22.77	22.80
	12	0	25.10	25.04	24.99
	12	6	26.17	26.20	26.21
	12	12	25.13	25.15	25.15
	24	0	25.26	25.15	25.19
16QAM	1	0	22.61	22.58	22.53
64QAM	1	0	22.58	22.51	22.50
256QAM	1	0	21.71	21.67	21.64

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.98	25.66	17.57	20.25	30
QPSK	22.53	26.34	17.12	20.93	30
16QAM	22.53	22.61	17.12	17.2	30
64QAM	22.5	22.58	17.09	17.17	30
256QAM	21.64	21.71	16.23	16.3	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 647168	CH 656000	CH 664832
			3707.52 MHz	3840 MHz	3972.48 MHz
$\pi/2$ BPSK	1	1	25.59	25.51	25.59
	1	0	23.04	23.09	23.06
QPSK	1	1	26.22	26.20	26.26
	1	0	22.50	22.51	22.55
	1	19	26.12	26.12	26.17
	1	36	25.92	25.86	25.92
	1	37	22.74	22.83	22.80
	18	0	24.98	25.11	25.05
	18	10	26.16	26.19	26.23
	18	20	25.18	25.24	25.09
	36	0	25.11	25.12	25.24
16QAM	1	0	22.52	22.59	22.50
64QAM	1	0	22.46	22.59	22.52
256QAM	1	0	21.69	21.64	21.74

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	23.04	25.59	17.63	20.18	30
QPSK	22.5	26.26	17.09	20.85	30
16QAM	22.5	22.59	17.09	17.18	30
64QAM	22.46	22.59	17.05	17.18	30
256QAM	21.64	21.74	16.23	16.33	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 647334	CH 656000	CH 664666
			3710.01 MHz	3840 MHz	3969.99 MHz
$\pi/2$ BPSK	1	1	25.58	25.61	25.52
	1	0	23.06	23.03	22.96
QPSK	1	1	26.23	26.19	26.28
	1	0	22.48	22.55	22.47
	1	26	26.10	26.20	26.14
	1	49	25.91	25.84	25.87
	1	50	22.80	22.82	22.79
	25	0	24.99	25.10	25.11
	25	13	26.27	26.19	26.20
	25	26	25.17	25.16	25.20
	50	0	25.21	25.13	25.19
16QAM	1	0	22.62	22.54	22.59
64QAM	1	0	22.48	22.51	22.53
256QAM	1	0	21.70	21.77	21.72

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.96	25.61	17.55	20.2	30
QPSK	22.47	26.28	17.06	20.87	30
16QAM	22.54	22.62	17.13	17.21	30
64QAM	22.48	22.53	17.07	17.12	30
256QAM	21.7	21.77	16.29	16.36	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 647668	CH 656000	CH 664332
			3715.02 MHz	3840 MHz	3964.98 MHz
$\pi/2$ BPSK	1	1	25.62	25.57	25.56
	1	0	22.97	23.06	23.03
QPSK	1	1	26.23	26.34	26.24
	1	0	22.47	22.52	22.59
	1	39	26.20	26.23	26.16
	1	76	25.96	25.91	25.95
	1	77	22.86	22.73	22.72
	36	0	25.07	25.02	24.97
	36	21	26.22	26.15	26.20
	36	42	25.13	25.15	25.20
	75	0	25.15	25.19	25.23
16QAM	1	0	22.62	22.50	22.50
64QAM	1	0	22.51	22.45	22.49
256QAM	1	0	21.74	21.75	21.71

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.97	25.62	17.56	20.21	30
QPSK	22.47	26.34	17.06	20.93	30
16QAM	22.5	22.62	17.09	17.21	30
64QAM	22.45	22.51	17.04	17.1	30
256QAM	21.71	21.75	16.3	16.34	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 648000	CH 656000	CH 664000
			3720 MHz	3840 MHz	3960 MHz
$\pi/2$ BPSK	1	1	25.52	25.59	25.52
	1	0	22.97	22.97	23.08
QPSK	1	1	26.24	26.31	26.24
	1	0	22.48	22.52	22.59
	1	53	26.11	26.23	26.22
	1	104	25.86	25.87	25.88
	1	105	22.75	22.75	22.84
	50	0	25.03	24.97	25.09
	50	28	26.19	26.13	26.21
	50	56	25.12	25.22	25.15
	100	0	25.20	25.18	25.20
16QAM	1	0	22.54	22.62	22.63
64QAM	1	0	22.54	22.53	22.50
256QAM	1	0	21.66	21.76	21.70

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.97	25.59	17.56	20.18	30
QPSK	22.48	26.31	17.07	20.9	30
16QAM	22.54	22.63	17.13	17.22	30
64QAM	22.5	22.54	17.09	17.13	30
256QAM	21.66	21.76	16.25	16.35	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 50 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 648334	CH 656000	CH 663666
			3725.01 MHz	3840 MHz	3954.99 MHz
$\pi/2$ BPSK	1	1	25.53	25.56	25.52
	1	0	23.07	23.05	23.04
QPSK	1	1	26.23	26.29	26.23
	1	0	22.48	22.55	22.56
	1	67	26.20	26.14	26.22
	1	131	25.95	25.89	25.97
	1	132	22.83	22.86	22.86
	64	0	25.07	25.11	24.99
	64	35	26.26	26.25	26.26
	64	69	25.21	25.23	25.13
	128	0	25.20	25.16	25.14
16QAM	1	0	22.63	22.58	22.56
64QAM	1	0	22.49	22.49	22.57
256QAM	1	0	21.63	21.65	21.77

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	23.04	25.56	17.63	20.15	30
QPSK	22.48	26.29	17.07	20.88	30
16QAM	22.56	22.63	17.15	17.22	30
64QAM	22.49	22.57	17.08	17.16	30
256QAM	21.63	21.77	16.22	16.36	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 60 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 648668	CH 656000	CH 663332
			3730.02 MHz	3840 MHz	3949.98 MHz
$\pi/2$ BPSK	1	1	25.64	25.62	25.64
	1	0	23.04	22.98	22.99
QPSK	1	1	26.34	26.28	26.32
	1	0	22.49	22.50	22.52
	1	81	26.19	26.19	26.22
	1	160	25.91	25.89	25.93
	1	161	22.82	22.80	22.78
	81	0	25.10	25.05	25.06
	81	41	26.27	26.22	26.15
	81	81	25.24	25.17	25.23
	162	0	25.17	25.16	25.11
16QAM	1	0	22.58	22.50	22.56
64QAM	1	0	22.54	22.57	22.52
256QAM	1	0	21.74	21.69	21.73

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.98	25.64	17.57	20.23	30
QPSK	22.49	26.34	17.08	20.93	30
16QAM	22.5	22.58	17.09	17.17	30
64QAM	22.52	22.57	17.11	17.16	30
256QAM	21.69	21.74	16.28	16.33	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 70 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 649000	CH 656000	CH 663000
			3735 MHz	3840 MHz	3945 MHz
$\pi/2$ BPSK	1	1	25.61	25.64	25.59
	1	0	23.01	23.03	23.07
QPSK	1	1	26.20	26.29	26.24
	1	0	22.48	22.52	22.53
	1	95	26.16	26.13	26.11
	1	187	25.86	25.96	25.89
	1	188	22.81	22.73	22.73
	90	0	24.97	25.08	25.03
	90	50	26.21	26.15	26.14
	90	99	25.12	25.11	25.19
	180	0	25.26	25.21	25.19
16QAM	1	0	22.65	22.59	22.62
64QAM	1	0	22.55	22.47	22.57
256QAM	1	0	21.71	21.62	21.75

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	23.01	25.64	17.6	20.23	30
QPSK	22.48	26.29	17.07	20.88	30
16QAM	22.59	22.65	17.18	17.24	30
64QAM	22.47	22.57	17.06	17.16	30
256QAM	21.62	21.75	16.21	16.34	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 80 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 649334	CH 656000	CH 662666
			3740.01 MHz	3840 MHz	3939.99 MHz
$\pi/2$ BPSK	1	1	25.51	25.54	25.66
	1	0	23.06	23.08	23.08
QPSK	1	1	26.34	26.20	26.34
	1	0	22.49	22.47	22.51
	1	109	26.12	26.15	26.20
	1	215	25.86	25.87	25.97
	1	216	22.86	22.86	22.86
	108	0	25.06	25.03	25.04
	108	55	26.17	26.19	26.16
	108	109	25.23	25.11	25.22
	216	0	25.11	25.23	25.16
16QAM	1	0	22.59	22.63	22.55
64QAM	1	0	22.46	22.51	22.55
256QAM	1	0	21.71	21.67	21.70

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	23.06	25.66	17.65	20.25	30
QPSK	22.47	26.34	17.06	20.93	30
16QAM	22.55	22.63	17.14	17.22	30
64QAM	22.46	22.55	17.05	17.14	30
256QAM	21.67	21.71	16.26	16.3	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 90 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 649668	CH 656000	CH 662332
			3745.02 MHz	3840 MHz	3934.98 MHz
$\pi/2$ BPSK	1	1	25.66	25.62	25.66
	1	0	23.01	22.99	22.99
QPSK	1	1	26.29	26.23	26.22
	1	0	22.49	22.52	22.49
	1	123	26.17	26.15	26.21
	1	243	25.91	25.95	25.96
	1	244	22.81	22.75	22.80
	120	0	25.11	24.97	25.05
	120	63	26.18	26.26	26.25
	120	125	25.09	25.20	25.21
	243	0	25.11	25.18	25.14
16QAM	1	0	22.58	22.65	22.52
64QAM	1	0	22.54	22.49	22.52
256QAM	1	0	21.71	21.74	21.65

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	22.99	25.66	17.58	20.25	30
QPSK	22.49	26.29	17.08	20.88	30
16QAM	22.52	22.65	17.11	17.24	30
64QAM	22.49	22.54	17.08	17.13	30
256QAM	21.65	21.74	16.24	16.33	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 100 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 650000	CH 656000	CH 662000
			3750 MHz	3840 MHz	3930 MHz
$\pi/2$ BPSK	1	1	25.76	25.61	25.53
	1	0	23.19	23.01	23.04
QPSK	1	1	26.44	25.86	25.85
	1	0	22.71	22.48	22.57
	1	137	26.34	26.13	26.17
	1	271	26.08	25.95	25.89
	1	272	22.97	22.84	22.85
	135	0	25.22	25.23	25.10
	135	69	26.38	26.25	26.24
	135	138	25.34	25.02	25.08
	270	0	25.36	25.14	25.26
16QAM	1	0	22.75	22.59	22.59
64QAM	1	0	22.70	22.46	22.54
256QAM	1	0	21.87	21.71	21.68

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
$\pi/2$ BPSK	23.01	25.76	17.6	20.35	30
QPSK	22.48	26.44	17.07	21.03	30
16QAM	22.59	22.75	17.18	17.34	30
64QAM	22.46	22.7	17.05	17.29	30
256QAM	21.68	21.87	16.27	16.46	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.2 Radiated Spurious Emissions below 1GHz

7.2.1 NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

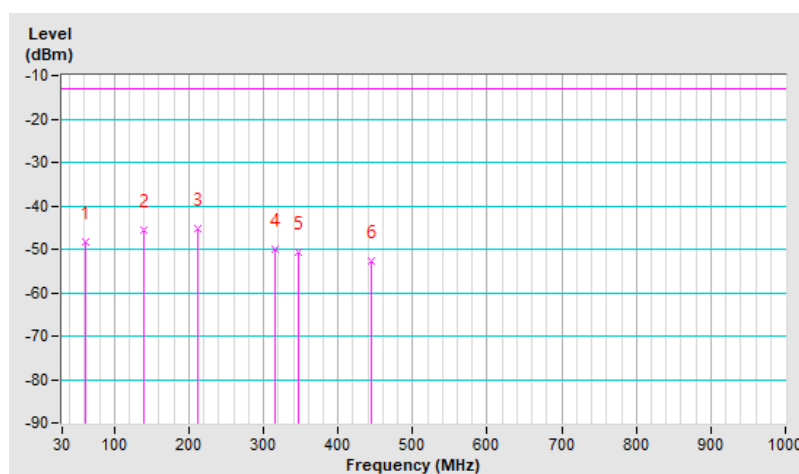
Mode A

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 633334 : 3500.01 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	62.01	-48.20	-13.00	-35.20	1.00 H	120	56.80	-105.00
2	138.64	-45.49	-13.00	-32.49	1.00 H	184	58.64	-104.13
3	212.36	-45.36	-13.00	-32.36	1.00 H	141	60.60	-105.96
4	316.15	-49.93	-13.00	-36.93	1.00 H	211	51.24	-101.17
5	346.22	-50.63	-13.00	-37.63	1.00 H	214	50.20	-100.83
6	445.16	-52.76	-13.00	-39.76	1.99 H	230	45.71	-98.47

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

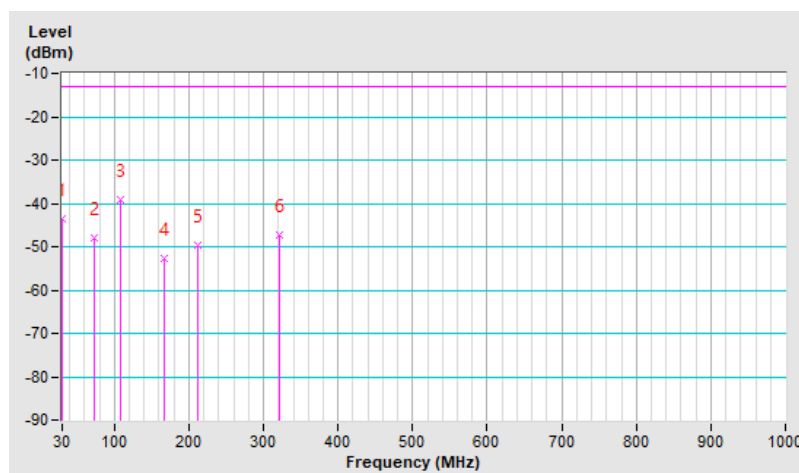


RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 633334 : 3500.01 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.97	-43.70	-13.00	-30.70	1.99 V	9	62.16	-105.86
2	73.65	-48.09	-13.00	-35.09	1.00 V	162	58.82	-106.91
3	107.60	-39.13	-13.00	-26.13	1.00 V	114	67.96	-107.09
4	167.74	-52.63	-13.00	-39.63	1.00 V	235	50.95	-103.58
5	212.36	-49.51	-13.00	-36.51	1.00 V	6	56.45	-105.96
6	321.97	-47.42	-13.00	-34.42	1.00 V	101	53.59	-101.01

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



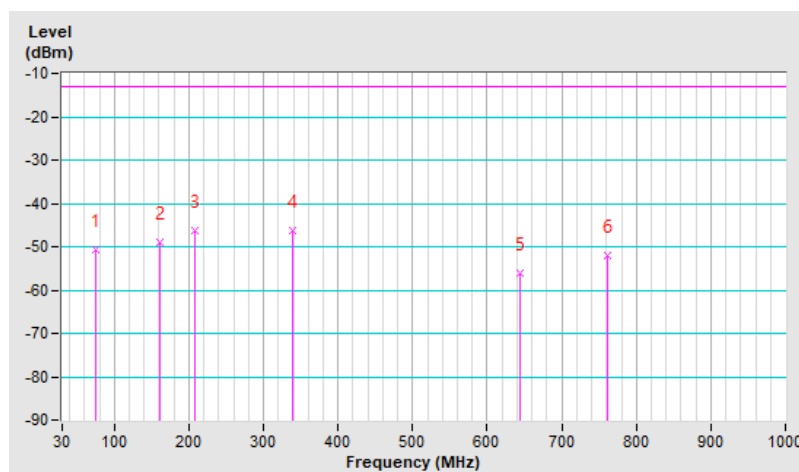
Mode B

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 633334 : 3500.01 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	74.62	-50.59	-13.00	-37.59	1.50 H	96	56.46	-107.05
2	161.92	-49.08	-13.00	-36.08	1.50 H	297	54.29	-103.37
3	208.48	-46.13	-13.00	-33.13	1.00 H	180	59.98	-106.11
4	339.43	-46.20	-13.00	-33.20	2.00 H	358	54.64	-100.84
5	644.98	-56.16	-13.00	-43.16	1.00 H	310	38.70	-94.86
6	761.38	-51.91	-13.00	-38.91	1.00 H	9	40.81	-92.72

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

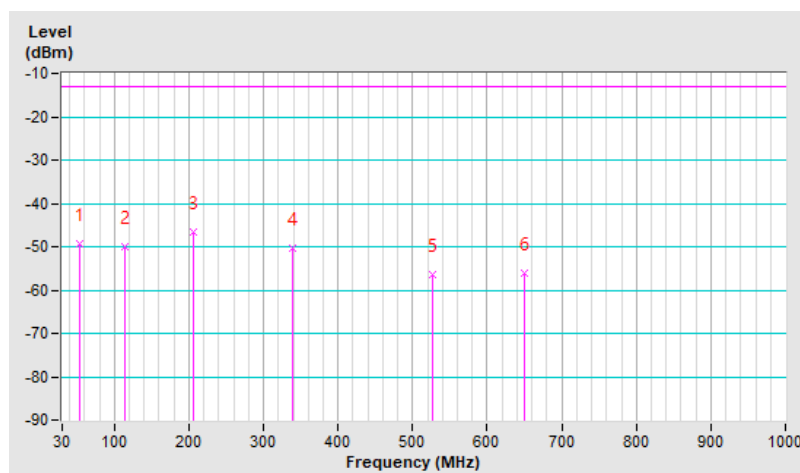


RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 633334 : 3500.01 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	54.25	-49.38	-13.00	-36.38	2.00 V	194	54.92	-104.30
2	113.42	-50.12	-13.00	-37.12	1.00 V	305	56.42	-106.54
3	206.54	-46.72	-13.00	-33.72	1.50 V	144	59.44	-106.16
4	339.43	-50.27	-13.00	-37.27	1.00 V	313	50.57	-100.84
5	526.64	-56.33	-13.00	-43.33	2.00 V	133	41.12	-97.45
6	650.80	-56.04	-13.00	-43.04	1.00 V	104	38.85	-94.89

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.2.2 NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

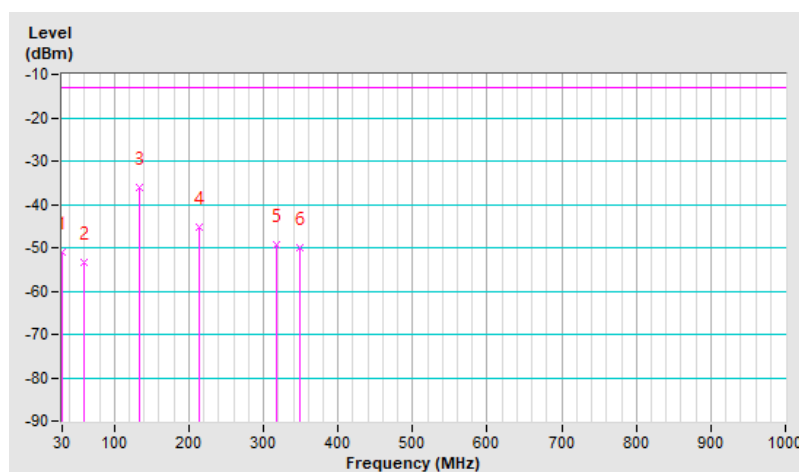
Mode A

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 650000 : 3750 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.97	-50.90	-13.00	-37.90	1.01 H	6	54.96	-105.86
2	59.10	-53.29	-13.00	-40.29	1.50 H	36	51.17	-104.46
3	132.82	-35.98	-13.00	-22.98	1.50 H	175	68.70	-104.68
4	213.33	-45.19	-13.00	-32.19	1.01 H	157	60.74	-105.93
5	318.09	-49.33	-13.00	-36.33	1.01 H	216	51.78	-101.11
6	348.16	-50.13	-13.00	-37.13	1.01 H	213	50.67	-100.80

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

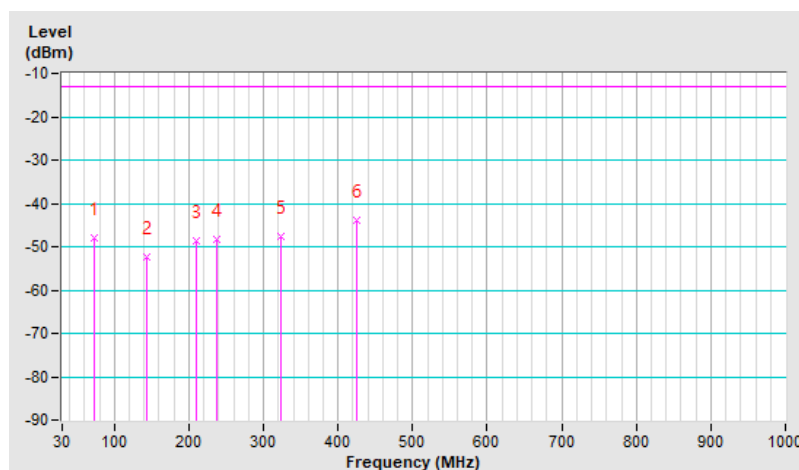


RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 650000 : 3750 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	73.65	-47.99	-13.00	-34.99	1.00 V	66	58.92	-106.91
2	143.49	-52.47	-13.00	-39.47	1.00 V	337	51.30	-103.77
3	209.45	-48.54	-13.00	-35.54	1.00 V	2	57.53	-106.07
4	237.58	-48.15	-13.00	-35.15	1.00 V	14	56.42	-104.57
5	322.94	-47.71	-13.00	-34.71	1.00 V	95	53.27	-100.98
6	424.79	-43.83	-13.00	-30.83	2.00 V	161	55.11	-98.94

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



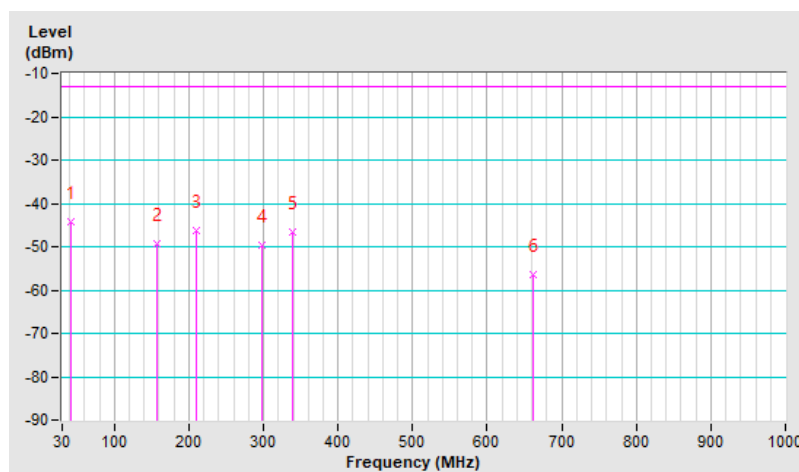
Mode B

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 650000 : 3750 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.61	-44.30	-13.00	-31.30	2.00 H	178	60.13	-104.43
2	157.07	-49.26	-13.00	-36.26	1.00 H	299	54.04	-103.30
3	209.45	-46.22	-13.00	-33.22	2.00 H	183	59.85	-106.07
4	298.69	-49.65	-13.00	-36.65	1.50 H	146	52.15	-101.80
5	339.43	-46.61	-13.00	-33.61	1.00 H	5	54.23	-100.84
6	662.44	-56.35	-13.00	-43.35	1.00 H	143	38.40	-94.75

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

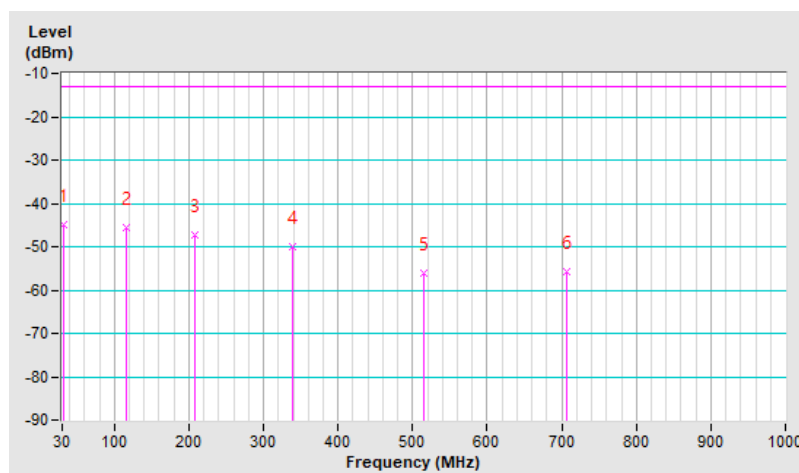


RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 650000 : 3750 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	-45.03	-13.00	-32.03	1.00 V	298	60.53	-105.56
2	115.36	-45.45	-13.00	-32.45	1.00 V	309	60.91	-106.36
3	208.48	-47.35	-13.00	-34.35	2.00 V	165	58.76	-106.11
4	339.43	-50.07	-13.00	-37.07	1.00 V	258	50.77	-100.84
5	514.03	-56.07	-13.00	-43.07	1.50 V	176	41.52	-97.59
6	707.06	-55.70	-13.00	-42.70	1.00 V	200	38.33	-94.03

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.3 Radiated Spurious Emissions above 1GHz

7.3.1 NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

RF Mode	NR n77 Channel Bandwidth: 10MHz	Channel	CH 630334 : 3455.01 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6910.02	-42.24	-13.00	-29.24	3.70 H	193	44.31	-86.55
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6910.02	-41.91	-13.00	-28.91	1.53 V	214	44.64	-86.55

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 10MHz	Channel	CH 633334 : 3500.01 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.02	-41.37	-13.00	-28.37	3.68 H	196	44.33	-85.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.02	-41.01	-13.00	-28.01	1.58 V	220	44.69	-85.70

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 10MHz	Channel	CH 636332 : 3544.98 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7089.96	-41.29	-13.00	-28.29	3.67 H	197	44.28	-85.57
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7089.96	-40.94	-13.00	-27.94	1.54 V	213	44.63	-85.57

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	Channel	CH 631668 : 3475.02 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6950.04	-41.76	-13.00	-28.76	3.81 H	199	44.36	-86.12
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6950.04	-41.37	-13.00	-28.37	1.60 V	218	44.75	-86.12

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	Channel	CH 633334 : 3500.01 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.02	-41.35	-13.00	-28.35	3.75 H	190	44.35	-85.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.02	-40.94	-13.00	-27.94	1.54 V	211	44.76	-85.70

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	Channel	CH 635000 : 3520 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7050.00	-41.21	-13.00	-28.21	3.67 H	198	44.29	-85.50
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7050.00	-40.79	-13.00	-27.79	1.58 V	208	44.71	-85.50

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 633334 : 3500.01 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.02	-41.29	-13.00	-28.29	3.79 H	196	44.41	-85.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7000.02	-40.95	-13.00	-27.95	1.64 V	212	44.75	-85.70

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.2 NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

RF Mode	NR n77 Channel Bandwidth: 10MHz	Channel	CH 647000 : 3705 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7410.00	-40.48	-13.00	-27.48	3.82 H	189	44.36	-84.84
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7410.00	-40.15	-13.00	-27.15	1.54 V	211	44.69	-84.84

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 10MHz	Channel	CH 656000 : 3840 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-40.88	-13.00	-27.88	3.74 H	194	44.38	-85.26
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-40.54	-13.00	-27.54	1.59 V	219	44.72	-85.26

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 10MHz	Channel	CH 665000 : 3975 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7950.00	-40.33	-13.00	-27.33	3.80 H	199	44.28	-84.61
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7950.00	-39.93	-13.00	-26.93	1.58 V	206	44.68	-84.61

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	Channel	CH 648334 : 3725.01 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7450.02	-40.86	-13.00	-27.86	3.63 H	190	44.36	-85.22
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7450.02	-40.49	-13.00	-27.49	1.59 V	213	44.73	-85.22

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	Channel	CH 656000 : 3840 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-40.87	-13.00	-27.87	3.70 H	193	44.39	-85.26
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-40.51	-13.00	-27.51	1.55 V	208	44.75	-85.26

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	Channel	CH 663666 : 3549.99 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7909.98	-40.24	-13.00	-27.24	3.71 H	195	44.29	-84.53
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7909.98	-39.84	-13.00	-26.84	1.54 V	211	44.69	-84.53

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 650000 : 3750 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7500.00	-40.81	-13.00	-27.81	3.73 H	199	44.36	-85.17
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7500.00	-40.48	-13.00	-27.48	1.54 V	210	44.69	-85.17

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 656000 : 3840 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-40.91	-13.00	-27.91	3.64 H	190	44.35	-85.26
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-40.51	-13.00	-27.51	1.58 V	216	44.75	-85.26

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 662000 : 3930 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7860.00	-40.98	-13.00	-27.98	3.69 H	200	43.76	-84.74
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7860.00	-40.59	-13.00	-27.59	1.50 V	216	44.15	-84.74

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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