

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 96
47 CFR FCC Part 2
Report No.: RFBCMA-WTW-P24070713-5
FCC ID: RAXXC46BE
Product: Dragon
Brand: Verizon
Model No.: XC46BE
Received Date: 2024/9/27
Test Date: 2024/10/15 ~ 2024/11/5
Issued Date: 2024/11/19

Applicant: Arcadyan Technology Corporation

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FCC Registration / 788550 / TW0003 for Test Location(1)

Designation Number: 281270 / TW0032 for Test Location(2)

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2024/11/19

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Release Control Record

Issue No.	Description	Date Issued
RFBCMA-WTW-P24070713-5	Original release.	2024/11/19

1 Certificate

Product: Dragon

Brand: Verizon

Test Model: XC46BE

Sample Status: Engineering sample

Applicant: Arcadyan Technology Corporation

Test Date: 2024/10/15 ~ 2024/11/5

Standard: 47 CFR FCC Part 96
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 940660 D01 Part 96 CBRS Eqpt v03

KDB 662911 D01 Multiple Transmitter Output v02r01

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 96.41(b)	Maximum EIRP	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
Part 2.1046 Part 96.41(b)	Maximum Power Spectral Density	N/A	This device is End User Device.
Part 96.41(g)	Peak to Average Ratio	Pass	Meet the requirement of limit.
Part 2.1049	Bandwidth	Pass	Meet the requirement of limit.
Part 2.1051 Part 96.41(e)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -1.18 dB at 173.56 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -1.03 dB at 7359.96 MHz
Part 2.1055	Frequency Stability	Pass	Meet the requirement of limit.

Note: 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 (±)
Effective Radiated Power and Equivalent Isotropically Radiated Power	-	1.371 dB
Peak to Average Ratio	-	0.920 dB
Bandwidth	-	960 Hz
Conducted Spurious Emissions	-	2.12 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.92 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB
Frequency Stability	-	0.176 ppm

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	Dragon
Brand	Verizon
Test Model	XC46BE
Status of EUT	Engineering sample
Power Supply Rating	12.0Vdc from adapter 7.2 Vdc from battery

Note:

1. EUT Overview

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

1TX: Full Power

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3555 ~ 3694.98	BPSK	0.156	21.93
		QPSK	0.157	21.97
		16QAM	0.120	20.78
		64QAM	0.079	18.95
		256QAM	0.041	16.1
15 MHz	3557.52 ~ 3692.49	BPSK	0.154	21.87
		QPSK	0.154	21.88
		16QAM	0.120	20.79
		64QAM	0.080	19.01
		256QAM	0.040	16.06
20 MHz	3560.01 ~ 3690	BPSK	0.152	21.82
		QPSK	0.156	21.93
		16QAM	0.121	20.81
		64QAM	0.079	18.96
		256QAM	0.041	16.08
30 MHz	3565.02 ~ 3684.99	BPSK	0.153	21.84
		QPSK	0.156	21.93
		16QAM	0.121	20.82
		64QAM	0.079	18.98
		256QAM	0.040	16.06
40 MHz	3570 ~ 3679.98	BPSK	0.156	21.92
		QPSK	0.157	21.97
		16QAM	0.121	20.82
		64QAM	0.079	19.00
		256QAM	0.041	16.13

1TX: dBm/10 MHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3555 ~ 3694.98	BPSK	0.156	21.93
		QPSK	0.157	21.97
		16QAM	0.120	20.78
		64QAM	0.079	18.95
		256QAM	0.041	16.1
15 MHz	3557.52 ~ 3692.49	BPSK	0.154	21.87
		QPSK	0.152	21.82
		16QAM	0.121	20.81
		64QAM	0.080	19.03
		256QAM	0.041	16.08
20 MHz	3560.01 ~ 3690	BPSK	0.149	21.74
		QPSK	0.154	21.88
		16QAM	0.119	20.76
		64QAM	0.079	18.96
		256QAM	0.041	16.15
30 MHz	3565.02 ~ 3684.99	BPSK	0.153	21.84
		QPSK	0.156	21.94
		16QAM	0.120	20.80
		64QAM	0.079	18.96
		256QAM	0.041	16.12
40 MHz	3570 ~ 3679.98	BPSK	0.153	21.84
		QPSK	0.156	21.92
		16QAM	0.118	20.71
		64QAM	0.080	19.03
		256QAM	0.041	16.13

MIMO: Full Power

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3555 ~ 3694.98	BPSK	0.169	22.29
		QPSK	0.171	22.34
		16QAM	0.110	20.43
		64QAM	0.082	19.12
		256QAM	0.040	16.03
15 MHz	3557.52 ~ 3692.49	BPSK	0.166	22.21
		QPSK	0.169	22.29
		16QAM	0.106	20.26
		64QAM	0.079	19.00
		256QAM	0.040	15.99
20 MHz	3560.01 ~ 3690	BPSK	0.169	22.27
		QPSK	0.167	22.23
		16QAM	0.108	20.34
		64QAM	0.078	18.93
		256QAM	0.040	15.98
30 MHz	3565.02 ~ 3684.99	BPSK	0.167	22.23
		QPSK	0.169	22.27
		16QAM	0.109	20.36
		64QAM	0.080	19.04
		256QAM	0.040	16.00
40 MHz	3570 ~ 3679.98	BPSK	0.167	22.23
		QPSK	0.172	22.35
		16QAM	0.109	20.36
		64QAM	0.079	18.98
		256QAM	0.039	15.96

MIMO: dBm/10 MHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3555 ~ 3694.98	BPSK	0.169	22.29
		QPSK	0.171	22.34
		16QAM	0.110	20.43
		64QAM	0.082	19.12
		256QAM	0.040	16.03
15 MHz	3557.52 ~ 3692.49	BPSK	0.171	22.32
		QPSK	0.172	22.36
		16QAM	0.110	20.41
		64QAM	0.082	19.12
		256QAM	0.041	16.08
20 MHz	3560.01 ~ 3690	BPSK	0.171	22.33
		QPSK	0.172	22.36
		16QAM	0.110	20.43
		64QAM	0.081	19.10
		256QAM	0.040	16.03
30 MHz	3565.02 ~ 3684.99	BPSK	0.169	22.29
		QPSK	0.172	22.35
		16QAM	0.109	20.36
		64QAM	0.081	19.10
		256QAM	0.041	16.08
40 MHz	3570 ~ 3679.98	BPSK	0.170	22.31
		QPSK	0.174	22.40
		16QAM	0.110	20.41
		64QAM	0.081	19.11
		256QAM	0.040	16.04

Band / Bandwidth	TX Frequency Range (MHz)	Emission Designator				
		BPSK	QPSK	16QAM	64QAM	256QAM
LTE Band 48 (Channel Bandwidth 10MHz)	3555 ~ 3694.98	8M56G7D	8M59G7D	8M59D7W	8M59D7W	8M58D7W
LTE Band 48 (Channel Bandwidth 15MHz)	3557.52 ~ 3692.49	13M5G7D	13M6G7D	13M6D7W	13M5D7W	13M6D7W
LTE Band 48 (Channel Bandwidth 20MHz)	3560.01 ~ 3690	18M0G7D	18M2G7D	18M2D7W	18M2D7W	18M2D7W
LTE Band 48 (Channel Bandwidth 30MHz)	3565.02 ~ 3684.99	27M5G7D	27M8G7D	27M8D7W	27M8D7W	27M8D7W
LTE Band 48 (Channel Bandwidth 40MHz)	3570 ~ 3679.98	37M6G7D	37M8G7D	37M8D7W	37M7D7W	37M8D7W

2. The EUT uses following accessories.

Adapter	
Brand	verizon
Model	1A105-1235
Input Power	105-125 Vac, 60Hz, 1.2A
Output Power	12.0Vdc, 3.5A, 42.0W
DC Output Cable	1.8meter unshielded cable, w/o ferrite core

Battery	
Brand	Atemitech
Model	XC46BE224T-F100
Power Rating	7.2Vdc, 9800mAh (70.56Wh)

3. The EUT supports the following ENDC configuration.

5G NR	5G FR1			ENDC
	Band	SCS	Bandwidth (MHz)	
	n2	15 kHz	5/10/15/20/25/30/35/40	B5, B13, B66
	n5	15 kHz	5/10/15/20	B2, B48, B66
	n66	15 kHz	5/10/15/20/25/30/40	B2, B5, B13
	n77 (3.45 GHz ~ 3.55 GHz)	30 kHz	10/15/20/25/30/40/50/60/70/80/90/100	B2, B5, B13, B66
	n77 (3.7 GHz ~ 3.98 GHz)	30 kHz	10/15/20/25/30/40/50/60/70/80/90/100	B2, B5, B13, B66

*This EUT support SA mode and NSA mode, after verification, SA mode was the worst case and chosen for final test.

4. 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.

Antenna NO.	TX/RX	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
Ant.1	TX1/RX	2.86	FDD B2/n2: 1850 -1910 MHz	Dipole	SMA
	TX1/RX	2.77	FDD B5/n5: 824-849 MHz		
	TX0/RX	3.35	FDD B13: 777-787 MHz		
	TX0/RX	0.57	TDD B48/n48: 3550-3700 MHz		
	TX1/RX	2.54	FDD B66/n66: 1710-1780 MHz		
	TX0/RX	0.57	TDD n77: 3300-4200 MHz		
Ant.2	RX	2.82	FDD B2/n2: 1850 -1910 MHz	Dipole	SMA
		1.84	FDD B5/n5: 824-849 MHz		
		2.59	FDD B13: 777-787 MHz		
		0.91	TDD B48/n48: 3550-3700 MHz		
		2.83	FDD B66/n66: 1710-1780 MHz		
		0.91	TDD n77: 3300-4200 MHz		
Ant.3	RX	2.93	FDD B2/n2: 1850 -1910 MHz	Dipole	SMA
		2.7	FDD B5/n5: 824-849 MHz		
		2.18	FDD B13: 777-787 MHz		
		-0.13	TDD B48/n48: 3550-3700 MHz		
		3.08	FDD B66/n66: 1710-1780 MHz		
		0.78	TDD n77: 3300-4200 MHz		
Ant.4	TX0/RX	3.52	FDD B2/n2: 1850 -1910 MHz	Dipole	SMA
	TX0/RX	3.92	FDD B5/n5: 824-849 MHz		
	RX	4.23	FDD B13: 777-787 MHz		
	TX1/RX	0.33	TDD B48/n48: 3550-3700 MHz		
	TX0/RX	2.9	FDD B66/n66: 1710-1780 MHz		
	TX1/RX	0.74	TDD n77: 3300-4200 MHz		

*During SISO mode, FDD Band2/n2, FDD Band5/n5 & FDD Band66/n66 were fixed on Ant.4 and FDD Band13, TDD Band48/n48 & TDD n77 were fixed on Ant.1.

*For MIMO mode:

1. FDD:n2/n66 & TDD: n48/n77 were fixed on Ant.1 + Ant.4.
2. The MIMO mode signal was uncorrelated signal.
3. Regarding EIRP calculation that we will use the maximum antenna gain/frequency band as calculation parameters.
Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/2]$ dBi.

*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:	- For Unwanted Emission (below 1GHz) items: Battery/ POE/ AC Adapter. Pre-scan these modes and find the worst case as a representative test condition. - Pre-Scan has been conducted to determine the worst-case mode from all possible combinations.
Worst Case:	- For Unwanted Emission (below 1GHz) items worst condition: AC Adapter, frequency stability items worst condition: Battery and others test item the worst condition: AC Adapter. - EUT only operate on the specific X-axis for tested.

3.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

Test Item	Tx/Rx condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	1Tx, 2Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	1Tx	641666(3624.99 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	2Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB

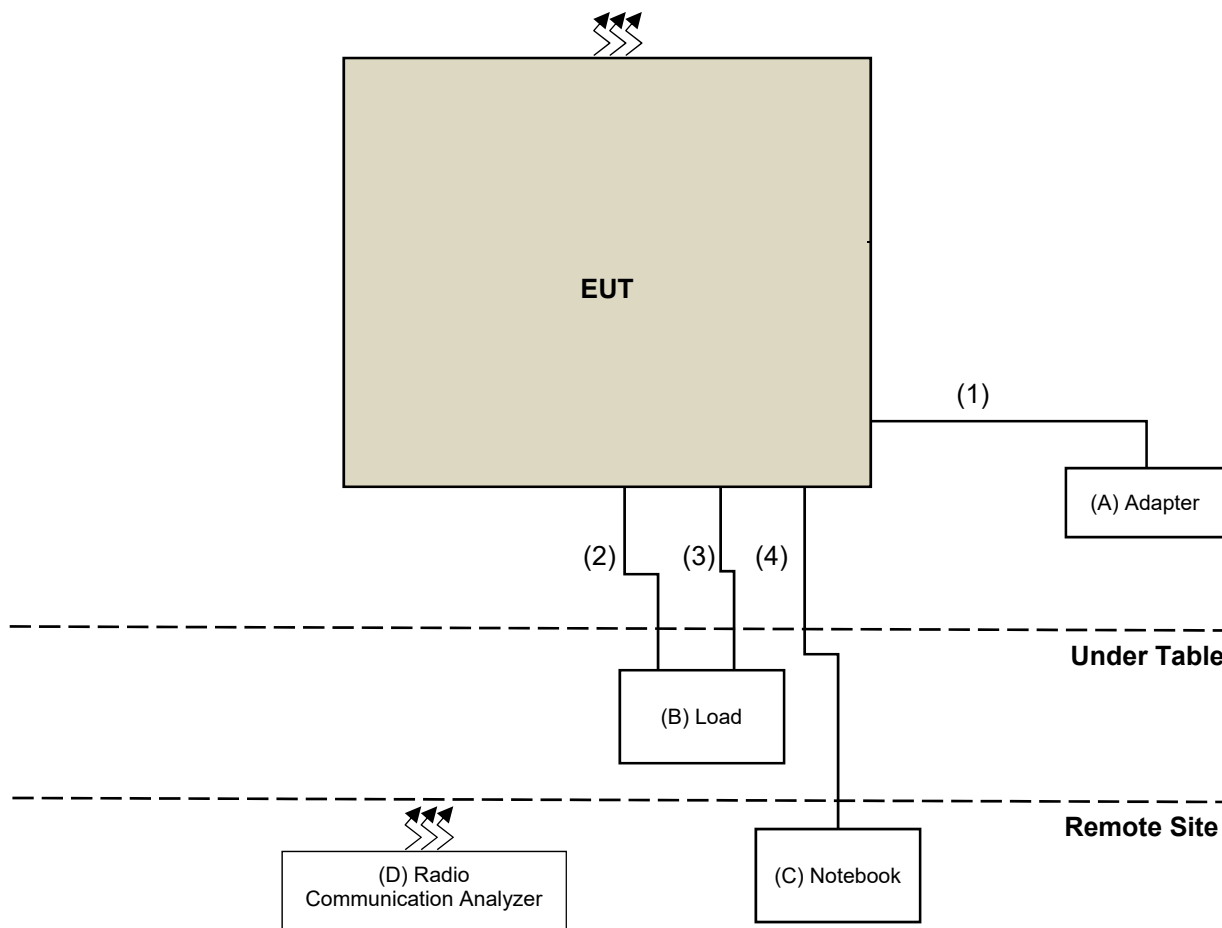
Test Item	Tx/Rx condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	2Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	2Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	QPSK	1 RB Full RB
		637168(3557.52 MHz) 641666(3624.99 MHz) 646166(3692.49 MHz)	15 MHz	QPSK	1 RB Full RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	QPSK	1 RB Full RB
		637668(3565.02 MHz) 641666(3624.99 MHz) 645666(3684.99 MHz)	30 MHz	QPSK	1 RB Full RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	2TX	645332(3679.98 MHz)	40 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	2Tx	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	QPSK	1 RB
		637334(3560.01 MHz) 641666(3624.99 MHz) 646000(3690.00 MHz)	20 MHz	QPSK	1 RB
		638000(3570.00 MHz) 641666(3624.99 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	1 RB

Test Item	Tx/Rx condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Frequency Stability (Frequency range: 3550 MHz to 3700 MHz)	1Tx	637000(3555.00 MHz) 646333(3694.98 MHz)	10 MHz	QPSK	Full RB
		637168(3557.52 MHz) 646166(3692.49 MHz)	15 MHz	QPSK	Full RB
		637334(3560.01 MHz) 646000(3690.00 MHz)	20 MHz	QPSK	Full RB
		637668(3565.02 MHz) 645666(3684.99 MHz)	30 MHz	QPSK	Full RB
		638000(3570.00 MHz) 645332(3679.98 MHz)	40 MHz	QPSK	Full RB

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



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	verizon	1A105-1235	N/A	N/A	Supplied by applicant
B	Load	NA	NA	N/A	N/A	Provided by Lab
C	Notebook	Lenovo	20J4 MD A003TW	N/A	N/A	Provided by Lab
D	Radio Communication Analyzer	Anritsu	MT8000A	6272278596	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Output Cable	1	1.8	No	0	Supplied by applicant
2	LAN cable	1	1.5	No	0	Provided by Lab
3	LAN cable	1	1.5	No	0	Provided by Lab
4	LAN cable	1	10	No	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 Maximum EIRP

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030B	MY57140938	2024/3/20	2025/3/19
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2024/5/26	2025/5/25

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/10/15 ~ 2024/11/5

4.2 Modulation Characteristics

Refer to section 4.1 to get the tested date and information of the instruments.

4.3 Peak to Average Ratio

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Conducted Spurious Emissions

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower KaiTuo	N/A	N/A	N/A	N/A
Antenna Tower Controller KaiTuo	KT-2000	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-995	2024/10/9	2025/10/8
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier EMCI	EMC330N	980783	2024/1/15	2025/1/14
PXA Signal Analyzer Keysight	N9030B	MY57140488	2024/3/6	2025/3/5
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201245	2024/1/15	2025/1/14
	EMCCFD400-NM-NM-3000	201250	2024/1/15	2025/1/14
	EMCCFD400-NM-NM-9000	201252(with PAD)	2024/1/15	2025/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208675	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 7.
2. Tested Date: 2024/11/3

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower KaiTuo	N/A	N/A	N/A	N/A
Antenna Tower Controller KaiTuo	KT-2000	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210104A18E	2023/11/12	2024/11/11
Horn Antenna Schwarzbeck	BBHA 9170	9170-1048	2023/11/12	2024/11/11
MXE EMI Receiver Agilent	N9038A	MY52260177	2024/9/19	2025/9/18
Preamplifier EMCI	EMC118A45SE	980810	2023/12/28	2024/12/27
	EMC184045SE	980787	2024/1/15	2025/1/14
PXA Signal Analyzer Keysight	N9030B	MY57140488	2024/3/6	2025/3/5
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2024/1/15	2025/1/14
	EMC101G-KM-KM-3000	201258	2024/1/15	2025/1/14
	EMC101G-KM-KM-5000	201261	2024/1/15	2025/1/14
	EMC104-SM-SM-1000	210101	2024/1/15	2025/1/14
	EMC104-SM-SM-3000	201242	2024/1/15	2025/1/14
	EMC104-SM-SM-9000	201230	2024/1/15	2025/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208675	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 7.
2. Tested Date: 2024/10/29 ~ 2024/10/30

4.8 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply JIN YIH Technology	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	8050A	4660081	2024/6/14	2025/6/13
PXA Signal Analyzer Keysight	N9030B	MY57140938	2024/3/20	2025/3/19
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2023/12/19	2024/12/18
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2024/5/26	2025/5/25

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/11/4

5 Limits of Test Items

5.1 Maximum EIRP

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

Device Category	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD	47

5.2 Modulation Characteristics

A curve or equivalent data which shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.

5.3 Peak to Average Ratio

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.

5.4 Bandwidth

According to FCC 47 CFR part 2.1049, the occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission.

5.5 Conducted Spurious Emissions

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed -25 dBm/MHz.

Additional protection levels: The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

Note: This device can be implement MIMO function, so the limit of emission mask / conducted emissions needs to be reduced by $10 \cdot \log(\text{NumbersAnt})$ according to FCC KDB 662911 D01 guidance.

5.6 Radiated Spurious Emissions below 1GHz

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

5.7 Radiated Spurious Emissions above 1GHz

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

5.8 Frequency Stability

For NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz):

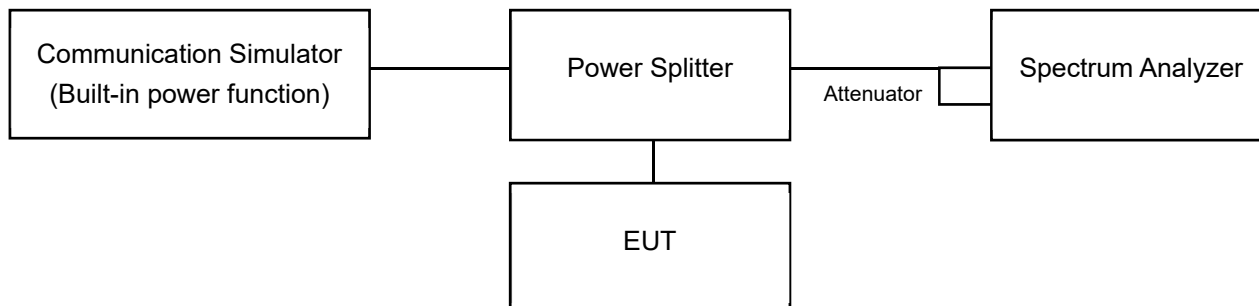
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation (authorized frequency block).

6 Test Arrangements

6.1 Maximum EIRP

6.1.1 Test Setup

Conducted Power Measurement:



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by emulator 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).

Measurement method refers to ANSI C63.26 section 5.2.4.4.

- Set span to $2 \times$ to $3 \times$ the OBW.
- Set RBW = 1% to 5% of the OBW.
- Set VBW $\geq 3 \times$ RBW.
- Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- Set Sweep time = auto-couple.
- Detector = power averaging (rms).
- Set sweep trigger to "free run."
- Trace average at least 100 traces in power averaging (rms) mode.
- Use the Band/Channel Power function to determine the integrated power per 10 MHz bandwidth and full bandwidth, according to the 47 CFR FCC Part 96 standard.
- If Duty cycle < 98%, Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

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

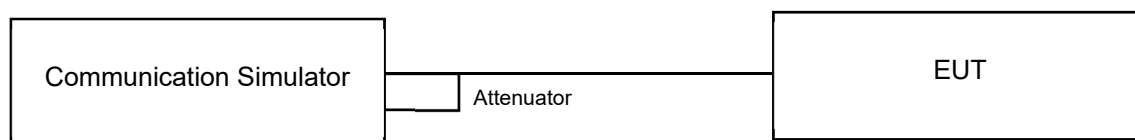
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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 Modulation Characteristics

6.2.1 Test Setup

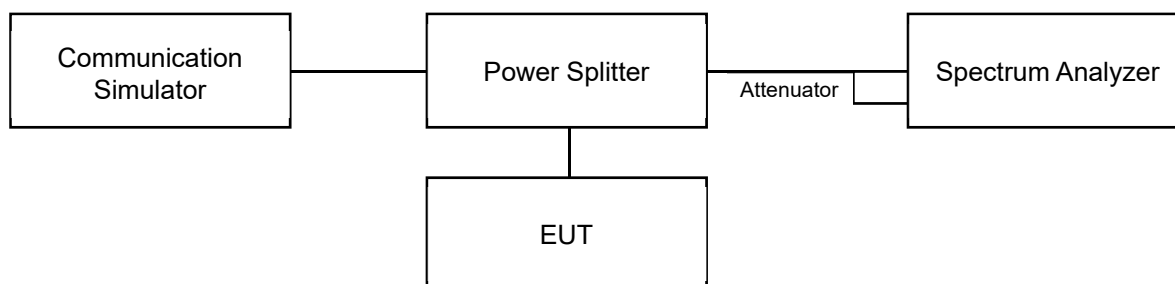


6.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, the frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

6.3 Peak to Average Ratio

6.3.1 Test Setup

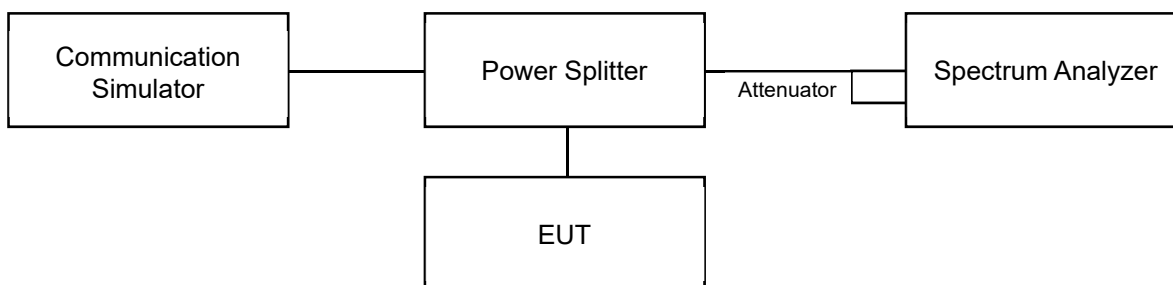


6.3.2 Test Procedure

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

6.4 Bandwidth

6.4.1 Test Setup



6.4.2 Test Procedure

For the 26 dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

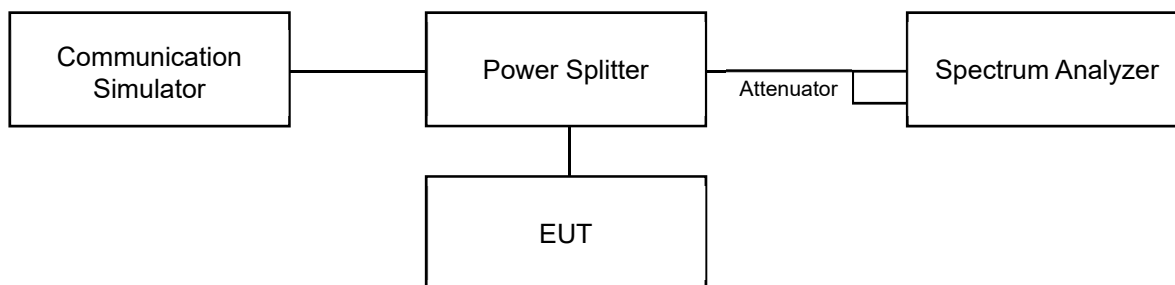
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- Determine the following reference values: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- Determine the “-X dB amplitude” as equal to (Reference Value - X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB amplitude” determined in step f). If a marker is below this “-X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

For the occupied bandwidth measurement method, please refer to section 5.4.4 of ANSI C63.26.

- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d. The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f. Determine the reference value by either of the following:
 - g. 1) Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - h. 2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.
- i. Determine the “-X dB amplitude” as equal to (Reference Value - X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- j. If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).
- k. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB amplitude” determined in step f). If a marker is below this “-X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers. The spectral envelope can cross the “-X dB amplitude” at multiple points. The lowest or highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the “-X dB amplitude.”
- l. The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



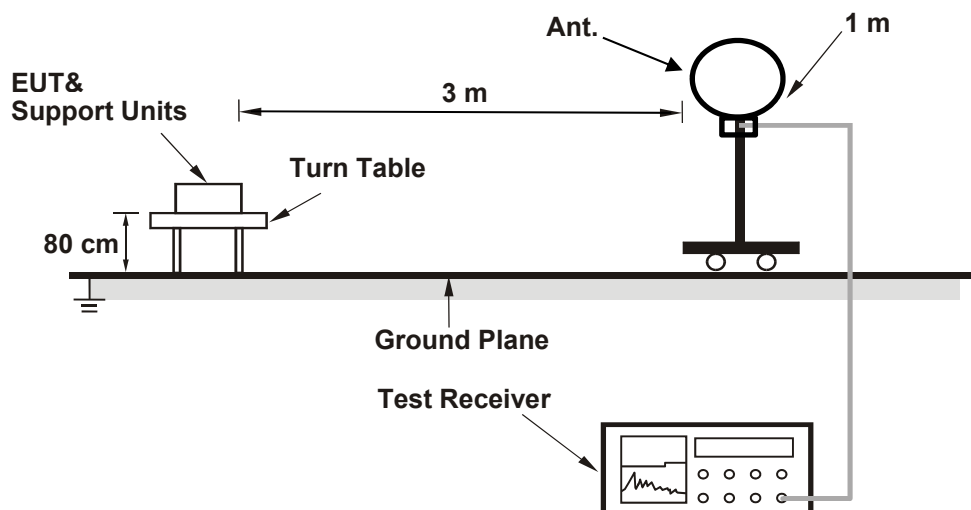
6.5.2 Test Procedure

- Measurement refer to ANSI C63.26 section 5.7.
- All measurements were done at 3 channels: low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. 20 dB attenuation pad is connected with spectrum.
- The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
- The fundamental frequency below 1 GHz, the spectrum set RBW $\geq$ 100 kHz, VBW $\geq$ 3 x RBW, Detector = Average.
- Measuring frequency band edge, narrow RBW (no less than 1% of the OBW) is used for conducted emission measurement.
- For the emissions measurement method, certain channel BW modes demonstrate compliance by integrating with the smaller RBW allowed by the rule.
For example: Where Reference RBW = 1 MHz and a smaller RBW = 100 kHz is used, worst-case integrated BW power = [Max Measured Value (dBm) with RBW = 100 kHz] + $10 \cdot \log(1000/100)$. To compensate for this integration before comparison to the value, the adjusted reference level offset was increase by 10 dB accordingly.
- The device has MIMO function, so the limit of conducted spurious emissions need to be measurement add $10\log(\text{Numbers}_{\text{ANT}})$ according to FCC KDB 662911 D01 guidance. Therefore, the $10\log(\text{Numbers}_{\text{ANT}})$ value is added to the spectrum Ref. level offset during testing.
- Record the maximum power value test plot.

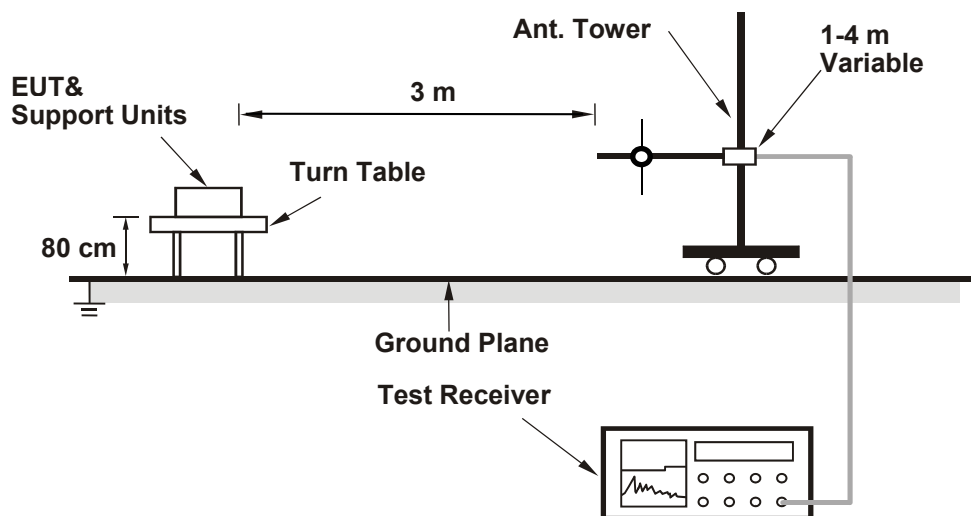
6.6 Radiated Spurious Emissions below 1GHz

6.6.1 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).

6.6.2 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.

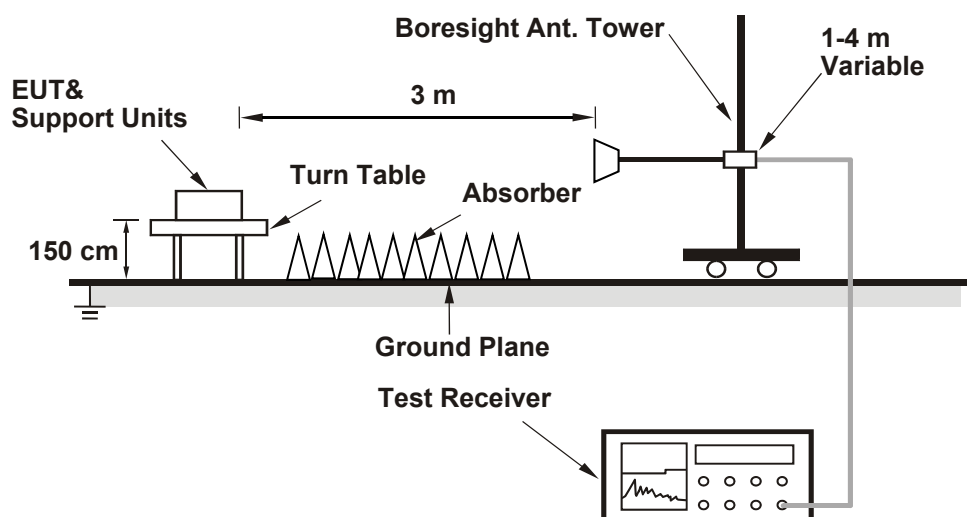
Note:

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.

6.7 Radiated Spurious Emissions above 1GHz

6.7.1 Test Setup

For radiated emission above 1 GHz



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

6.7.2 Test Procedure

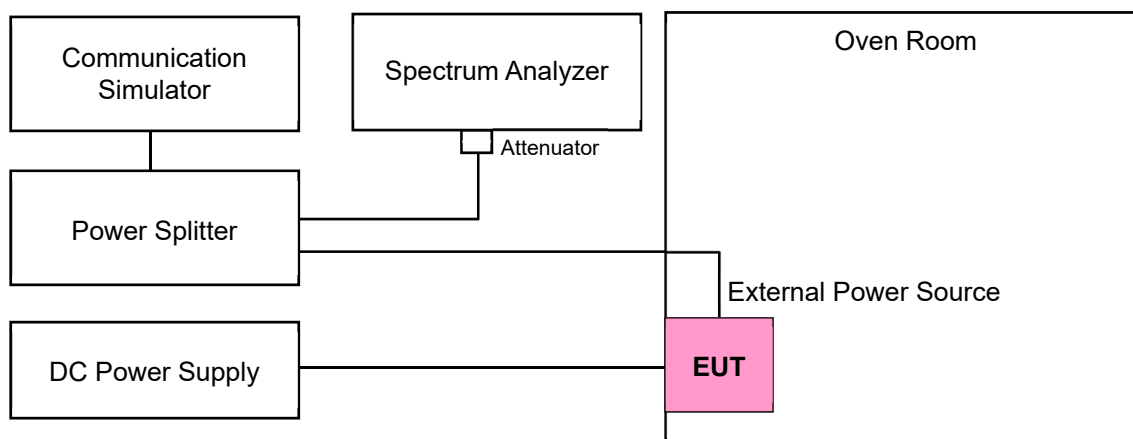
The EUT is configured to set data modulation and maximum power using WWAN technology.

- 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
- $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

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

6.8 Frequency Stability

6.8.1 Test Setup



6.8.2 Test Procedure

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

- 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.

7 Test Results of Test Item

7.1 Maximum EIRP

Input Power:	7.2 Vdc	Environmental Conditions:	23°C, 71% RH	Tested By:	James Yang
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7.1.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 10 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 10M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637000	CH 641666	CH 646332
			3555 MHz	3624.99 MHz	3694.98 MHz
BPSK	1	1	21.36	21.29	21.23
	1	0	20.64	20.81	20.68
QPSK	1	1	21.26	21.23	21.13
	1	0	20.27	20.28	20.25
	1	11	21.3	21.32	21.23
	1	22	21.2	21.29	21.31
	1	23	20.18	20.16	20.25
	12	0	20.3	20.28	20.31
	12	6	21.28	21.33	21.4
	12	12	20.36	20.39	20.39
	24	0	20.33	20.42	20.26
16QAM	1	0	20.21	20.1	20.09
64QAM	1	0	18.33	18.33	18.38
256QAM	1	0	15.53	15.41	15.39

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.64	21.36	21.21	21.93	23
QPSK	20.16	21.4	20.73	21.97	23
16QAM	20.09	20.21	20.66	20.78	23
64QAM	18.33	18.38	18.9	18.95	23
256QAM	15.39	15.53	15.96	16.1	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 15 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 15M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	1	21.28	21.3	21.13
	1	0	20.69	20.69	20.7
QPSK	1	1	21.19	21.21	21.13
	1	0	20.19	20.3	20.14
	1	19	21.28	21.31	21.22
	1	36	21.3	21.27	21.29
	1	37	20.13	20.18	20.08
	18	0	20.28	20.36	20.14
	18	10	21.29	21.3	21.27
	18	20	20.22	20.32	20.28
	36	0	20.3	20.34	20.38
	38	0	18.44	18.41	18.59
16QAM	1	0	20.11	20.21	20.22
64QAM	1	0	18.33	18.39	18.44
256QAM	1	0	15.49	15.46	15.46

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.69	21.3	21.26	21.87	23
QPSK	18.41	21.31	18.98	21.88	23
16QAM	20.11	20.22	20.68	20.79	23
64QAM	18.33	18.44	18.9	19.01	23
256QAM	15.46	15.49	16.03	16.06	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 20 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 20M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	1	21.18	21.19	21.25
	1	0	20.72	20.8	20.67
QPSK	1	1	21.25	21.25	21.24
	1	0	20.21	20.3	20.35
	1	26	21.24	21.36	21.32
	1	49	21.29	21.19	21.08
	1	50	20.15	20.25	20.24
	25	0	20.36	20.33	20.4
	25	13	21.28	21.34	21.22
	25	26	20.28	20.3	20.31
	50	0	20.39	20.29	20.33
	51	0	18.42	18.5	18.41
16QAM	1	0	20.14	20.24	20.19
64QAM	1	0	18.34	18.39	18.35
256QAM	1	0	15.48	15.44	15.51

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.67	21.25	21.24	21.82	23
QPSK	18.41	21.36	18.98	21.93	23
16QAM	20.14	20.24	20.71	20.81	23
64QAM	18.34	18.39	18.91	18.96	23
256QAM	15.44	15.51	16.01	16.08	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 30 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 30M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
BPSK	1	1	21.24	21.18	21.27
	1	0	20.72	20.75	20.69
QPSK	1	1	21.16	21.3	21.13
	1	0	20.22	20.27	20.38
	1	39	21.28	21.28	21.29
	1	76	21.16	21.24	21.21
	1	77	20.09	20.23	20.22
	36	0	20.19	20.35	20.3
	36	21	21.36	21.33	21.29
	36	42	20.17	20.31	20.42
	75	0	20.44	20.41	20.41
	78	0	18.42	18.55	18.45
16QAM	1	0	20.15	20.25	20.12
64QAM	1	0	18.29	18.36	18.41
256QAM	1	0	15.49	15.47	15.48

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.69	21.27	21.26	21.84	23
QPSK	18.42	21.36	18.99	21.93	23
16QAM	20.12	20.25	20.69	20.82	23
64QAM	18.29	18.41	18.86	18.98	23
256QAM	15.47	15.49	16.04	16.06	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 40 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 40M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
BPSK	1	1	21.35	21.33	21.31
	1	0	20.73	20.82	20.79
QPSK	1	1	21.26	21.34	21.3
	1	0	20.28	20.34	20.25
	1	53	21.34	21.38	21.37
	1	104	21.34	21.31	21.28
	1	105	20.32	20.27	20.2
	50	0	20.37	20.37	20.34
	50	28	21.31	21.4	21.4
	50	56	20.43	20.39	20.36
	100	0	20.45	20.44	20.45
	106	0	18.51	18.55	18.46
16QAM	1	0	20.16	20.25	20.2
64QAM	1	0	18.38	18.43	18.38
256QAM	1	0	15.49	15.56	15.47

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.73	21.35	21.3	21.92	23
QPSK	18.46	21.4	19.03	21.97	23
16QAM	20.16	20.25	20.73	20.82	23
64QAM	18.38	18.43	18.95	19.00	23
256QAM	15.47	15.56	16.04	16.13	23

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

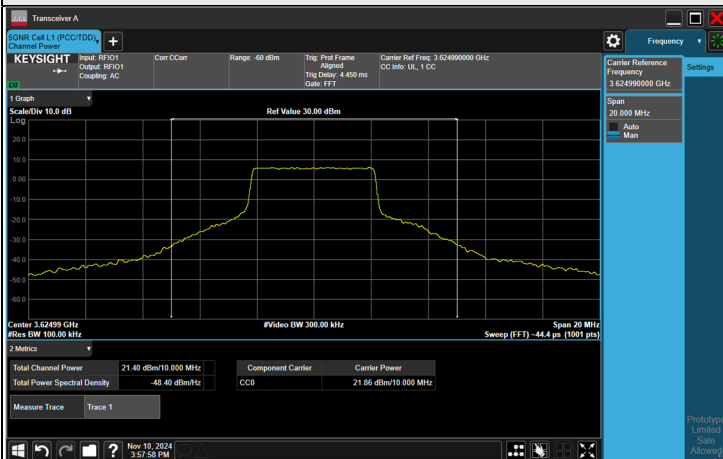
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 10 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 10M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637000	CH 641666	CH 646332
			3555 MHz	3624.99 MHz	3694.98 MHz
BPSK	1	1	21.36	21.29	21.23
	1	0	20.64	20.81	20.68
QPSK	1	1	21.26	21.23	21.13
	1	0	20.27	20.28	20.25
	1	11	21.3	21.32	21.23
	1	22	21.2	21.29	21.31
	1	23	20.18	20.16	20.25
	12	0	20.3	20.28	20.31
	12	6	21.28	21.33	21.4
	12	12	20.36	20.39	20.39
	24	0	20.33	20.42	20.26
16QAM	1	0	20.21	20.1	20.09
64QAM	1	0	18.33	18.33	18.38
256QAM	1	0	15.53	15.41	15.39

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.64	21.36	21.21	21.93	23
QPSK	20.16	21.4	20.73	21.97	23
16QAM	20.09	20.21	20.66	20.78	23
64QAM	18.33	18.38	18.9	18.95	23
256QAM	15.39	15.53	15.96	16.1	23

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

Spectrum Plot of Worst Value



QPSK CH 646332 (3694.98 MHz) Ant.1

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 15 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 15M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	1	21.14	21.24	21.3
	1	0	20.67	20.55	20.55
QPSK	1	1	21.1	21.15	21.07
	1	0	20.22	20.22	20.26
	1	19	21.18	21.25	21.21
	1	36	21.25	21.25	21.18
	1	37	20.12	20.03	20.12
	18	0	20.36	20.26	20.37
	18	10	21.08	21.24	21.14
	18	20	20.16	20.31	20.35
	36	0	18.2	18.36	18.23
	38	0	16.05	16.08	15.97
16QAM	1	0	20.24	20.12	20.16
64QAM	1	0	18.46	18.34	18.38
256QAM	1	0	15.45	15.51	15.47

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.55	21.3	21.12	21.87	23
QPSK	15.97	21.25	16.54	21.82	23
16QAM	20.12	20.24	20.69	20.81	23
64QAM	18.34	18.46	18.91	19.03	23
256QAM	15.45	15.51	16.02	16.08	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 20 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 20M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	1	21.13	21.17	21.09
	1	0	20.64	20.7	20.65
QPSK	1	1	21.16	21.1	21.1
	1	0	20.23	20.3	20.24
	1	26	21.23	21.31	21.3
	1	49	21.16	21.15	21.17
	1	50	20.17	20.16	20.11
	25	0	20.24	20.3	20.24
	25	13	21.29	21.25	21.22
	25	26	20.11	20.26	20.27
	50	0	16.88	16.96	16.92
	51	0	14.64	14.8	14.79
16QAM	1	0	20.15	20.18	20.19
64QAM	1	0	18.39	18.28	18.37
256QAM	1	0	15.44	15.47	15.58

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.64	21.17	21.21	21.74	23
QPSK	14.64	21.31	15.21	21.88	23
16QAM	20.15	20.19	20.72	20.76	23
64QAM	18.28	18.39	18.85	18.96	23
256QAM	15.44	15.58	16.01	16.15	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 30 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 30M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
BPSK	1	1	21.19	21.27	21.13
	1	0	20.6	20.7	20.65
QPSK	1	1	21.3	21.3	21.18
	1	0	20.12	20.29	20.21
	1	39	21.37	21.29	21.21
	1	76	21.26	21.2	21.3
	1	77	20.1	20.27	20.08
	36	0	18.12	18.2	18.02
	36	21	19.17	19.32	19.21
	36	42	18.22	18.33	18.33
	75	0	15.08	15.15	15.06
	78	0	12.6	12.84	12.66
16QAM	1	0	20.05	20.23	20.07
64QAM	1	0	18.39	18.35	18.29
256QAM	1	0	15.43	15.55	15.5

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.6	21.27	21.17	21.84	23
QPSK	12.6	21.37	13.17	21.94	23
16QAM	20.05	20.23	20.62	20.8	23
64QAM	18.29	18.39	18.86	18.96	23
256QAM	15.43	15.55	16	16.12	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Ant 1, Channel Bandwidth: 40 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 40M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
BPSK	1	1	21.27	21.26	21.21
	1	0	20.68	20.76	20.84
QPSK	1	1	21.29	21.29	21.21
	1	0	20.17	20.22	20.21
	1	53	21.27	21.35	21.29
	1	104	21.28	21.22	21.14
	1	105	20.23	20.14	20.16
	50	0	16.68	16.74	16.57
	50	28	17.87	17.92	17.9
	50	56	16.8	16.89	16.84
	100	0	13.75	13.85	13.62
	106	0	11.27	11.45	11.24
16QAM	1	0	20.11	20.14	20.07
64QAM	1	0	18.46	18.41	18.29
256QAM	1	0	15.51	15.49	15.56

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	20.68	21.27	21.25	21.84	23
QPSK	11.24	21.35	11.81	21.92	23
16QAM	20.07	20.14	20.64	20.71	23
64QAM	18.29	18.46	18.86	19.03	23
256QAM	15.49	15.56	16.06	16.13	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 10 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 10M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637000			CH 641666			CH 646332		
			3555 MHz			3624.99 MHz			3694.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.40	19.22	21.84	18.34	19.18	21.79	18.34	19.18	21.79
QPSK	1	1	18.40	19.17	21.81	18.49	19.18	21.86	18.50	19.19	21.87
	1	11	18.59	19.11	21.87	18.60	19.06	21.85	18.55	19.19	21.89
	1	22	18.53	18.96	21.76	18.54	18.95	21.76	18.42	18.86	21.66
	12	0	17.47	18.15	20.83	17.52	18.29	20.93	17.52	18.28	20.93
	12	6	17.61	18.24	20.95	17.50	18.17	20.86	17.60	18.14	20.89
	12	12	17.47	18.07	20.79	17.41	17.97	20.71	17.46	18.11	20.81
	24	0	15.52	16.04	18.80	15.49	16.13	18.83	15.46	16.06	18.78
16QAM	1	1	16.66	17.17	19.93	16.78	17.12	19.96	16.78	17.16	19.98
64QAM	1	1	15.25	16.03	18.67	15.29	15.89	18.61	15.17	15.94	18.58
256QAM	1	1	12.24	12.87	15.58	12.29	12.73	15.53	12.24	12.74	15.51

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.79	21.84	22.24	22.29	23
QPSK	18.78	21.89	19.23	22.34	23
16QAM	19.93	19.98	20.38	20.43	23
64QAM	18.58	18.67	19.03	19.12	23
256QAM	15.51	15.58	15.96	16.03	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 15 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 15M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637168			CH 641666			CH 646166		
			3557.52 MHz			3624.99 MHz			3692.49 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.38	19.29	21.87	18.38	19.30	21.87	18.35	19.30	21.86
QPSK	1	1	18.50	19.27	21.91	18.47	19.23	21.88	18.49	19.18	21.86
	1	19	18.58	19.13	21.87	18.59	19.14	21.88	18.60	19.17	21.90
	1	36	18.46	18.95	21.72	18.48	18.83	21.67	18.43	18.95	21.71
	18	0	17.56	18.23	20.92	17.43	18.29	20.89	17.58	18.24	20.93
	18	9	17.52	18.10	20.83	17.54	18.16	20.87	17.62	18.14	20.90
	18	19	17.51	18.11	20.83	17.44	18.00	20.74	17.41	18.07	20.76
	36	0	15.56	16.08	18.84	15.56	16.07	18.83	15.46	16.04	18.77
16QAM	1	1	16.71	17.11	19.92	16.77	17.09	19.94	16.73	17.16	19.96
64QAM	1	1	15.16	15.90	18.56	15.20	15.99	18.62	15.30	15.99	18.67
256QAM	1	1	12.28	12.86	15.59	12.36	12.86	15.63	12.32	12.81	15.58

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.86	21.87	22.31	22.32	23
QPSK	18.77	21.91	19.22	22.36	23
16QAM	19.92	19.96	20.37	20.41	23
64QAM	18.56	18.67	19.01	19.12	23
256QAM	15.58	15.63	16.03	16.08	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 20 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 20M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637334			CH 641666			CH 646000		
			3560.01 MHz			3624.99 MHz			3690.00 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.40	19.17	21.81	18.47	19.16	21.84	18.44	19.26	21.88
QPSK	1	1	18.43	19.30	21.90	18.43	19.20	21.84	18.50	19.25	21.90
	1	26	18.64	19.08	21.88	18.53	19.04	21.80	18.63	19.15	21.91
	1	49	18.44	18.97	21.72	18.48	18.96	21.74	18.48	18.96	21.74
	25	0	17.53	18.21	20.89	17.43	18.14	20.81	17.50	18.15	20.85
	25	13	17.60	18.19	20.92	17.47	18.20	20.86	17.48	18.22	20.88
	25	26	17.41	18.11	20.78	17.42	17.96	20.71	17.48	18.07	20.80
	50	0	15.58	16.06	18.84	15.45	16.05	18.77	15.54	16.04	18.81
16QAM	1	1	16.76	17.17	19.98	16.75	17.15	19.96	16.76	17.11	19.95
64QAM	1	1	15.27	15.91	18.61	15.18	16.00	18.62	15.26	15.99	18.65
256QAM	1	1	12.30	12.83	15.58	12.31	12.77	15.56	12.27	12.75	15.53

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.81	21.88	22.26	22.33	23
QPSK	18.77	21.91	19.22	22.36	23
16QAM	19.95	19.98	20.40	20.43	23
64QAM	18.61	18.65	19.06	19.10	23
256QAM	15.53	15.58	15.98	16.03	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 30 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 30M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637668			CH 641666			CH 645666		
			3565.02 MHz			3624.99 MHz			3684.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.42	19.19	21.83	18.45	19.17	21.84	18.42	19.18	21.83
QPSK	1	1	18.42	19.19	21.83	18.42	19.31	21.90	18.47	19.26	21.89
	1	39	18.57	19.10	21.85	18.60	19.16	21.90	18.57	19.15	21.88
	1	76	18.46	18.92	21.71	18.54	18.88	21.72	18.54	18.84	21.70
	36	0	17.58	18.14	20.88	17.45	18.27	20.89	17.56	18.25	20.93
	36	21	17.52	18.19	20.88	17.48	18.17	20.85	17.50	18.16	20.85
	36	42	17.39	18.01	20.72	17.44	17.98	20.73	17.50	18.05	20.79
	75	0	15.56	16.00	18.80	15.56	16.13	18.86	15.52	16.12	18.84
16QAM	1	1	16.66	17.09	19.89	16.66	17.12	19.91	16.64	17.12	19.90
64QAM	1	1	15.31	15.92	18.64	15.29	15.96	18.65	15.21	15.98	18.62
256QAM	1	1	12.28	12.76	15.54	12.25	12.80	15.54	12.37	12.86	15.63

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.83	21.84	22.28	22.29	23
QPSK	18.80	21.90	19.25	22.35	23
16QAM	19.89	19.91	20.34	20.36	23
64QAM	18.62	18.65	19.07	19.10	23
256QAM	15.54	15.63	15.99	16.08	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 40 MHz, Output Power: Full Power

NR n48 SCS 30 kHz 30M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637668			CH 641666			CH 645666		
			3565.02 MHz			3624.99 MHz			3684.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.36	19.25	21.84	18.44	19.23	21.86	18.32	19.29	21.84
QPSK	1	1	18.38	19.23	21.84	18.53	19.31	21.95	18.39	19.26	21.86
	1	39	18.63	19.16	21.91	18.57	19.07	21.84	18.51	19.05	21.80
	1	76	18.47	18.96	21.73	18.42	18.89	21.67	18.43	18.84	21.65
	36	0	17.47	18.20	20.86	17.57	18.29	20.96	17.43	18.16	20.82
	36	21	17.57	18.14	20.87	17.62	18.22	20.94	17.53	18.14	20.86
	36	42	17.47	18.07	20.79	17.46	18.03	20.76	17.48	18.00	20.76
	75	0	15.58	16.11	18.86	15.54	16.06	18.82	15.55	16.12	18.85
16QAM	1	1	16.78	17.12	19.96	16.76	17.04	19.91	16.69	17.09	19.90
64QAM	1	1	15.19	16.01	18.63	15.27	15.99	18.66	15.21	15.99	18.63
256QAM	1	1	12.27	12.79	15.55	12.23	12.77	15.52	12.35	12.79	15.59

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.84	21.86	22.29	22.31	23
QPSK	18.82	21.95	19.27	22.40	23
16QAM	19.90	19.96	20.35	20.41	23
64QAM	18.63	18.66	19.08	19.11	23
256QAM	15.52	15.59	15.97	16.04	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 10 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 10M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637000			CH 641666			CH 646332		
			3555 MHz			3624.99 MHz			3694.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.40	19.22	21.84	18.34	19.18	21.79	18.34	19.18	21.79
QPSK	1	1	18.40	19.17	21.81	18.49	19.18	21.86	18.50	19.19	21.87
	1	11	18.59	19.11	21.87	18.60	19.06	21.85	18.55	19.19	21.89
	1	22	18.53	18.96	21.76	18.54	18.95	21.76	18.42	18.86	21.66
	12	0	17.47	18.15	20.83	17.52	18.29	20.93	17.52	18.28	20.93
	12	6	17.61	18.24	20.95	17.50	18.17	20.86	17.60	18.14	20.89
	12	12	17.47	18.07	20.79	17.41	17.97	20.71	17.46	18.11	20.81
	24	0	15.52	16.04	18.80	15.49	16.13	18.83	15.46	16.06	18.78
16QAM	1	1	16.66	17.17	19.93	16.78	17.12	19.96	16.78	17.16	19.98
64QAM	1	1	15.25	16.03	18.67	15.29	15.89	18.61	15.17	15.94	18.58
256QAM	1	1	12.24	12.87	15.58	12.29	12.73	15.53	12.24	12.74	15.51

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.79	21.84	22.24	22.29	23
QPSK	18.78	21.89	19.23	22.34	23
16QAM	19.93	19.98	20.38	20.43	23
64QAM	18.58	18.67	19.03	19.12	23
256QAM	15.51	15.58	15.96	16.03	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 15 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 15M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637168			CH 641666			CH 646166		
			3557.52 MHz			3624.99 MHz			3692.49 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.21	19.14	21.71	18.30	19.07	21.71	18.31	19.14	21.76
QPSK	1	1	18.47	19.13	21.82	18.41	19.22	21.84	18.37	19.16	21.79
	1	19	18.57	19.05	21.83	18.57	18.98	21.79	18.53	19.07	21.82
	1	36	18.47	18.96	21.73	18.38	18.85	21.63	18.47	18.82	21.66
	18	0	17.44	18.14	20.81	17.33	18.07	20.73	17.38	18.14	20.79
	18	9	17.38	18.11	20.77	17.41	18.14	20.80	17.44	18.04	20.76
	18	19	17.26	17.84	20.57	17.39	17.91	20.67	17.39	17.89	20.66
	36	0	12.54	12.83	15.70	12.52	12.77	15.66	12.53	12.73	15.64
16QAM	1	1	16.54	16.93	19.75	16.57	16.90	19.75	16.61	16.98	19.81
64QAM	1	1	15.04	15.76	18.43	15.15	15.89	18.55	15.16	15.89	18.55
256QAM	1	1	12.32	12.73	15.54	12.25	12.78	15.53	12.23	12.67	15.47

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.71	21.76	22.16	22.21	23
QPSK	15.64	21.84	16.09	22.29	23
16QAM	19.75	19.81	20.20	20.26	23
64QAM	18.43	18.55	18.88	19.00	23
256QAM	15.47	15.54	15.92	15.99	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 20 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 20M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637334			CH 641666			CH 646000		
			3560.01 MHz			3624.99 MHz			3690.00 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.31	19.21	21.79	18.40	19.19	21.82	18.40	19.15	21.80
QPSK	1	1	18.30	19.05	21.70	18.29	19.09	21.72	18.28	19.10	21.72
	1	26	18.47	18.97	21.74	18.49	19.00	21.76	18.45	19.06	21.78
	1	49	18.47	18.93	21.72	18.52	18.91	21.73	18.46	18.94	21.72
	25	0	17.45	18.13	20.81	17.52	18.15	20.86	17.43	18.15	20.82
	25	13	17.46	18.00	20.75	17.46	17.99	20.74	17.55	18.02	20.80
	25	26	17.34	17.83	20.60	17.39	17.87	20.65	17.33	17.89	20.63
	50	0	11.33	11.81	14.59	11.26	11.81	14.55	11.31	11.80	14.57
16QAM	1	1	16.69	17.05	19.88	16.69	17.07	19.89	16.57	17.14	19.87
64QAM	1	1	15.15	15.76	18.48	15.12	15.76	18.46	15.06	15.76	18.43
256QAM	1	1	12.30	12.66	15.49	12.27	12.62	15.46	12.32	12.72	15.53

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.79	21.82	22.24	22.27	23
QPSK	14.55	21.78	15.00	22.23	23
16QAM	19.87	19.89	20.32	20.34	23
64QAM	18.43	18.48	18.88	18.93	23
256QAM	15.46	15.53	15.91	15.98	23

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 30 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 30M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 637668			CH 641666			CH 645666		
			3565.02 MHz			3624.99 MHz			3684.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.34	19.13	21.76	18.29	19.04	21.69	18.41	19.10	21.78
QPSK	1	1	18.45	19.12	21.81	18.34	19.23	21.82	18.34	19.23	21.82
	1	39	18.48	18.99	21.75	18.52	18.99	21.77	18.55	18.91	21.74
	1	76	18.45	18.89	21.69	18.48	18.87	21.69	18.41	18.98	21.71
	36	0	14.95	15.27	18.12	14.94	15.35	18.16	14.88	15.38	18.15
	36	21	16.09	15.93	19.02	16.03	15.98	19.02	15.97	15.85	18.92
	36	42	15.18	15.21	18.21	15.21	15.24	18.24	15.18	15.23	18.22
	75	0	9.62	9.77	12.71	9.70	9.88	12.80	9.64	9.73	12.70
16QAM	1	1	16.78	17.02	19.91	16.69	16.93	19.82	16.72	16.97	19.86
64QAM	1	1	15.07	15.85	18.49	15.11	15.84	18.50	15.21	15.92	18.59
256QAM	1	1	12.20	12.85	15.55	12.10	12.84	15.50	12.13	12.82	15.50

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.69	21.78	22.14	22.23	23
QPSK	12.70	21.82	13.15	22.27	23
16QAM	19.82	19.91	20.27	20.36	23
64QAM	18.49	18.59	18.94	19.04	23
256QAM	15.50	15.55	15.95	16.00	23

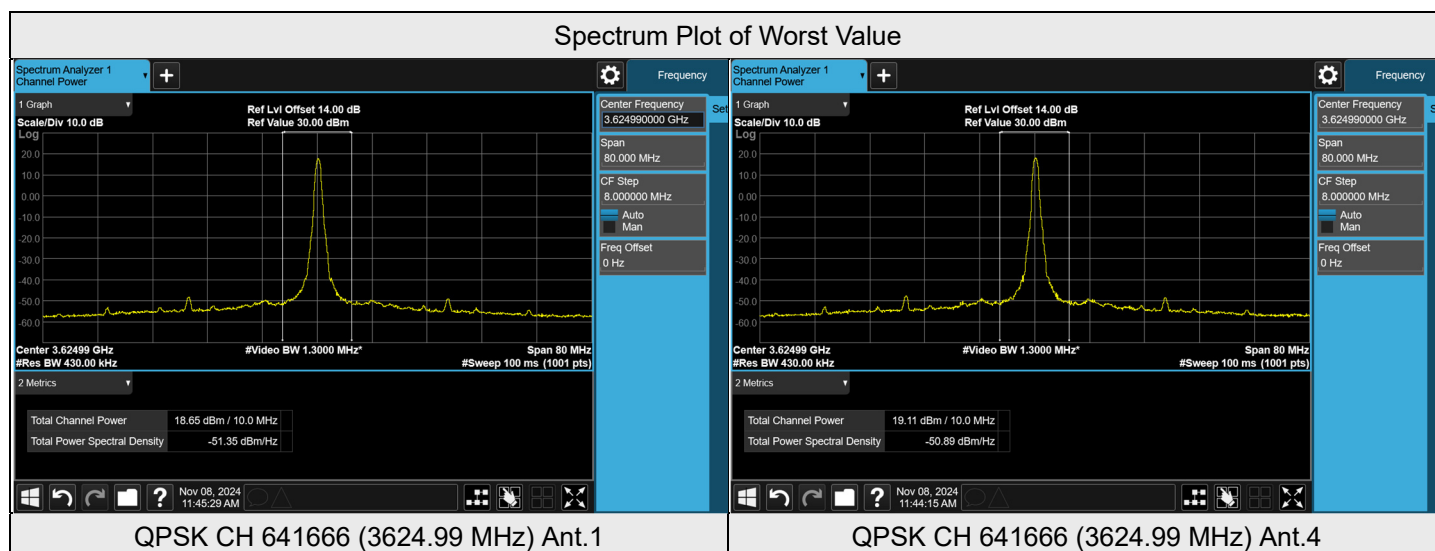
Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO, Channel Bandwidth: 40 MHz, Output Power: dBm/10 MHz

NR n48 SCS 30 kHz 40M											
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 638000			CH 641666			CH 645332		
			3570 MHz			3624.99 MHz			3679.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
BPSK	1	1	18.31	19.19	21.78	18.31	19.10	21.73	18.32	19.12	21.75
QPSK	1	1	18.25	19.23	21.78	18.29	19.23	21.80	18.26	19.18	21.75
	1	53	18.61	19.00	21.82	18.65	19.11	21.90	18.65	19.11	21.90
	1	104	18.42	18.84	21.65	18.48	18.80	21.65	18.50	18.78	21.65
	53	0	12.06	12.73	15.42	12.01	12.70	15.38	12.06	12.81	15.46
	53	28	12.13	13.16	15.69	12.10	13.21	15.70	12.12	13.14	15.67
	53	56	12.34	12.87	15.62	12.33	13.02	15.70	12.34	13.01	15.70
	106	0	6.99	7.98	10.52	7.02	7.87	10.48	6.98	7.94	10.50
16QAM	1	1	16.69	17.02	19.87	16.64	17.12	19.90	16.75	17.04	19.91
64QAM	1	1	15.13	15.88	18.53	15.12	15.85	18.51	15.17	15.84	18.53
256QAM	1	1	12.22	12.75	15.50	12.18	12.77	15.50	12.23	12.75	15.51

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	21.73	21.78	22.18	22.23	23
QPSK	10.48	21.90	10.93	22.35	23
16QAM	19.87	19.91	20.32	20.36	23
64QAM	18.51	18.53	18.96	18.98	23
256QAM	15.50	15.51	15.95	15.96	23

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

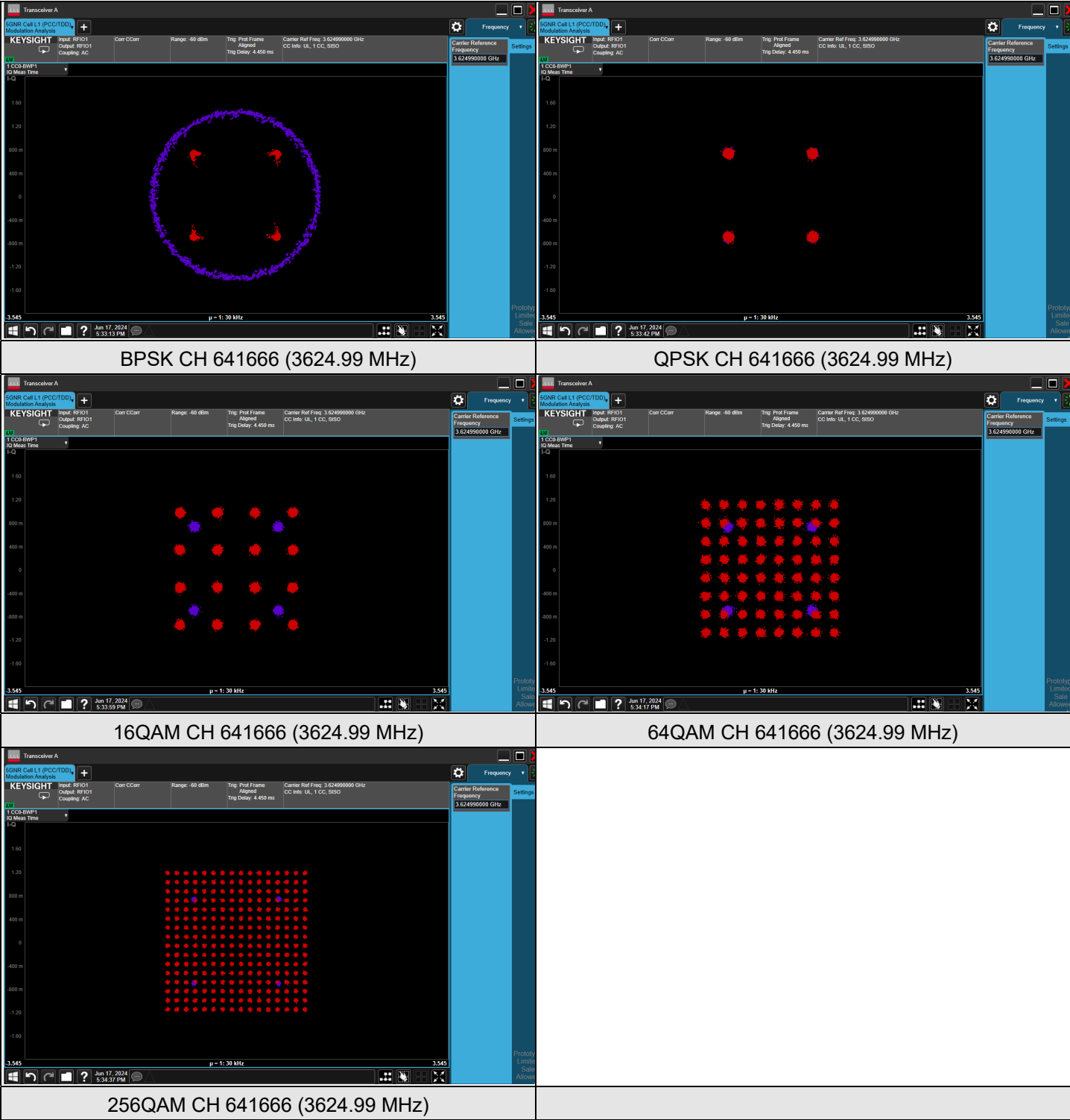


7.2 Modulation Characteristics

Input Power:	7.2 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	James Yang
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7.2.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - Channel Bandwidth: 40 MHz



7.3 Peak to Average Ratio

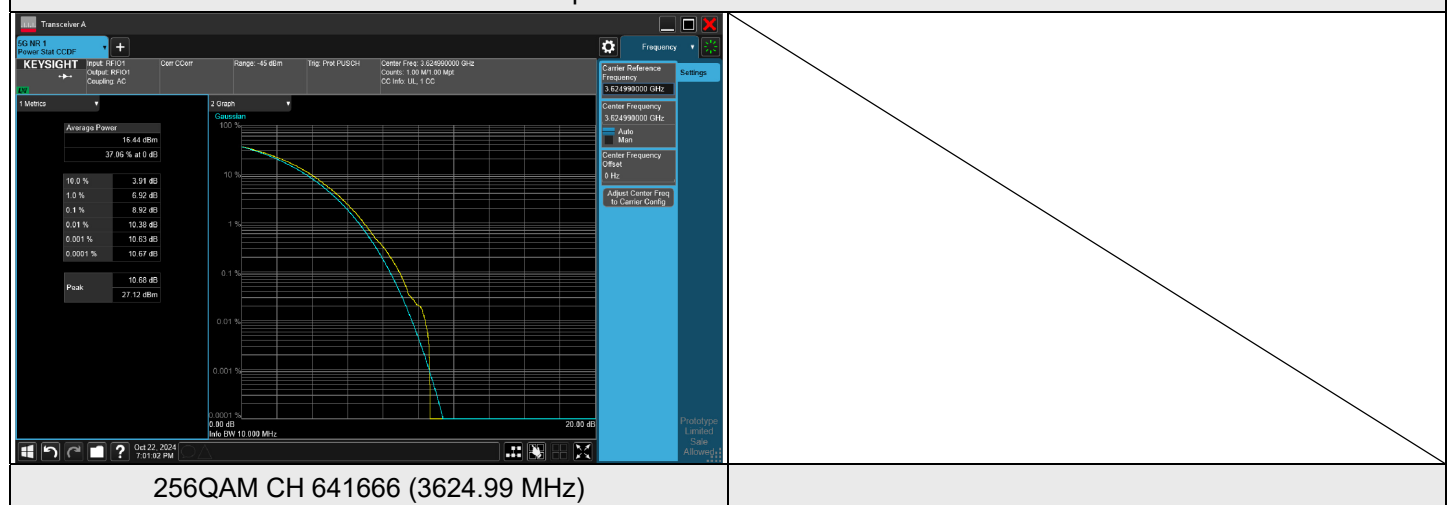
Input Power:	7.2 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	James Yang
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7.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 1, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637000	CH 641666	CH 646332
			3555 MHz	3624.99 MHz	3694.98 MHz
BPSK	1	23	4.45	4.40	4.59
	1	0	4.28	4.48	4.57
	24	0	4.48	4.51	4.69
QPSK	1	23	7.74	7.35	7.40
	1	0	7.42	7.69	7.54
	24	0	7.85	7.76	7.97
16QAM	1	23	7.58	7.76	7.63
	1	0	7.67	7.71	7.36
	24	0	7.91	7.87	8.14
64QAM	1	23	7.68	7.87	7.90
	1	0	8.03	7.77	8.08
	24	0	8.16	8.11	8.19
256QAM	1	23	8.10	8.18	8.20
	1	0	8.29	8.06	8.24
	24	0	8.34	8.92	8.82

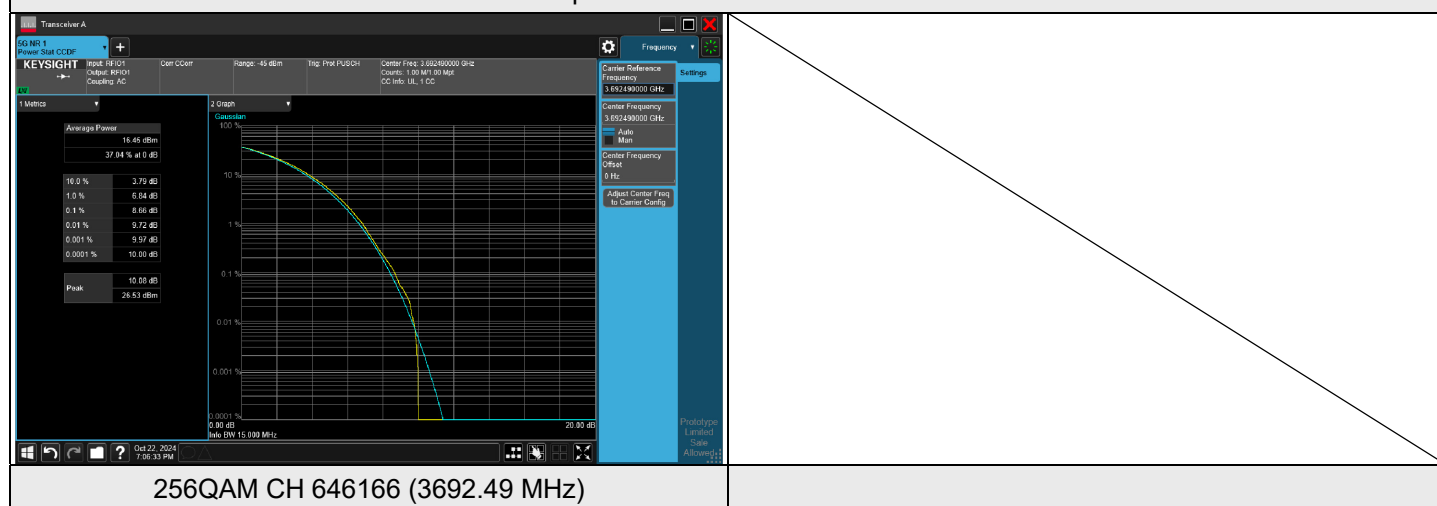
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 1, Channel Bandwidth: 15 MHz

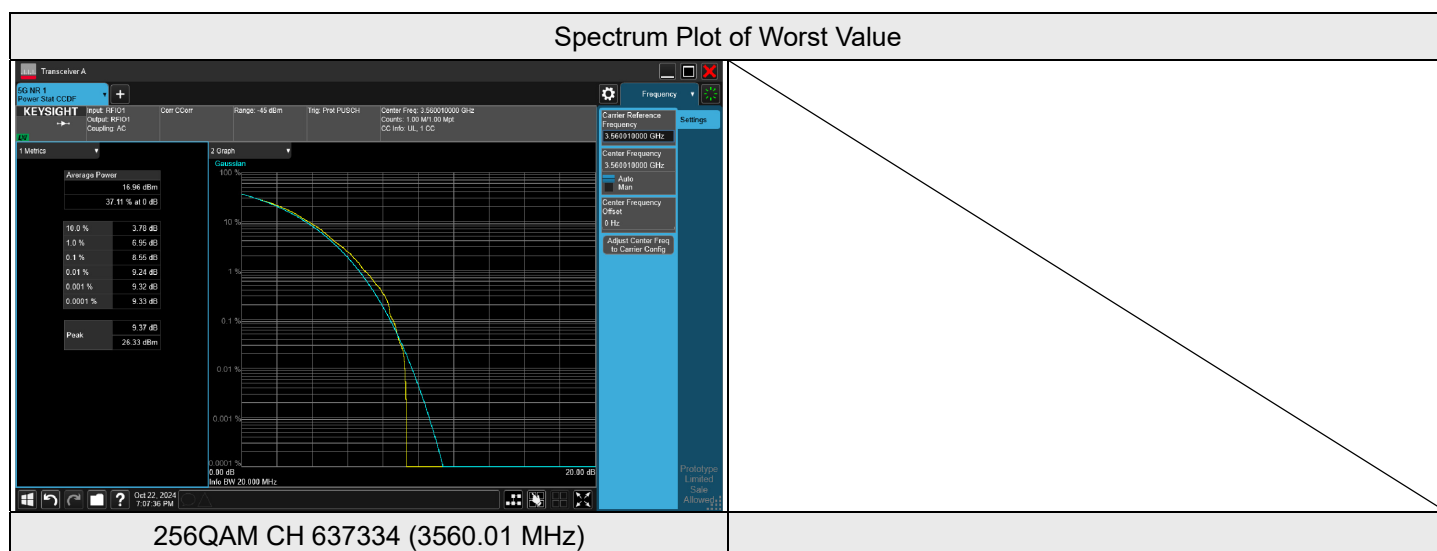
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	37	4.37	4.39	4.54
	1	0	4.52	4.50	4.49
	36	0	4.42	4.48	4.66
QPSK	1	37	7.58	7.15	6.89
	1	0	7.34	7.41	7.42
	38	0	8.11	8.17	8.32
16QAM	1	37	7.41	7.56	7.46
	1	0	7.80	7.78	7.55
	38	0	7.90	8.19	8.06
64QAM	1	37	7.57	7.89	7.98
	1	0	7.81	8.02	8.17
	38	0	7.99	7.94	8.17
256QAM	1	37	8.16	7.99	8.30
	1	0	8.53	8.29	8.29
	38	0	8.46	8.57	8.66

Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 1, Channel Bandwidth: 20 MHz

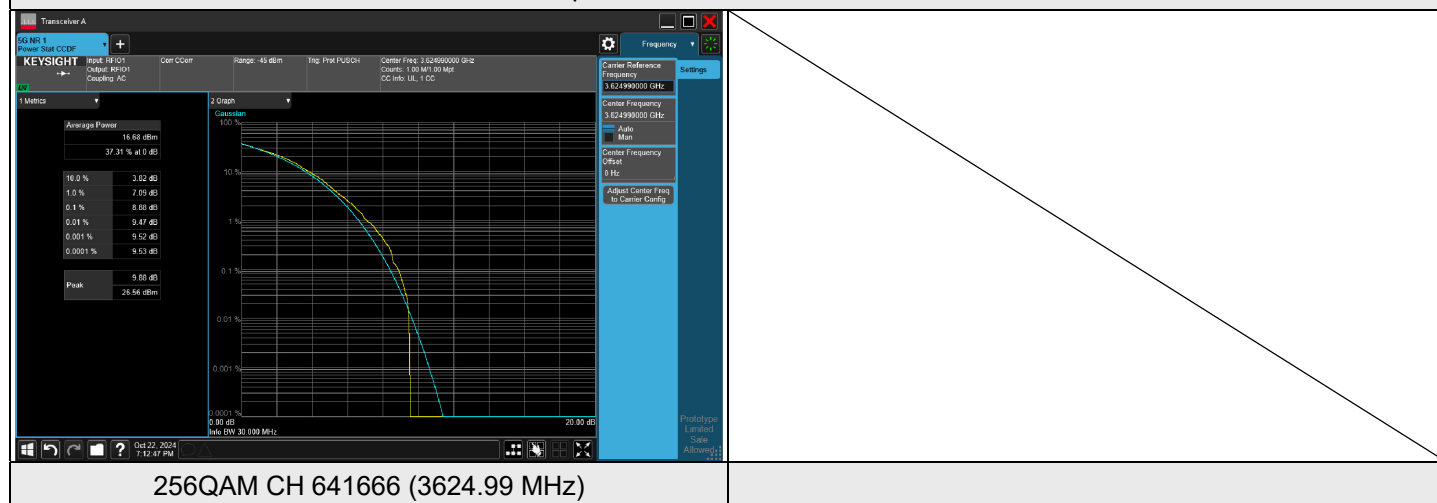
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	50	4.42	4.43	4.51
	1	0	4.40	4.31	4.34
	50	0	4.29	4.53	4.60
QPSK	1	50	7.40	7.24	7.45
	1	0	7.25	7.33	7.42
	51	0	8.08	7.96	8.10
16QAM	1	50	7.49	7.46	7.69
	1	0	7.40	7.77	7.49
	51	0	8.05	8.12	8.27
64QAM	1	50	7.79	7.59	8.14
	1	0	7.94	7.67	7.99
	51	0	8.09	8.01	8.26
256QAM	1	50	8.14	8.21	8.24
	1	0	8.55	8.32	8.41
	51	0	8.40	8.28	8.48



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 1, Channel Bandwidth: 30 MHz

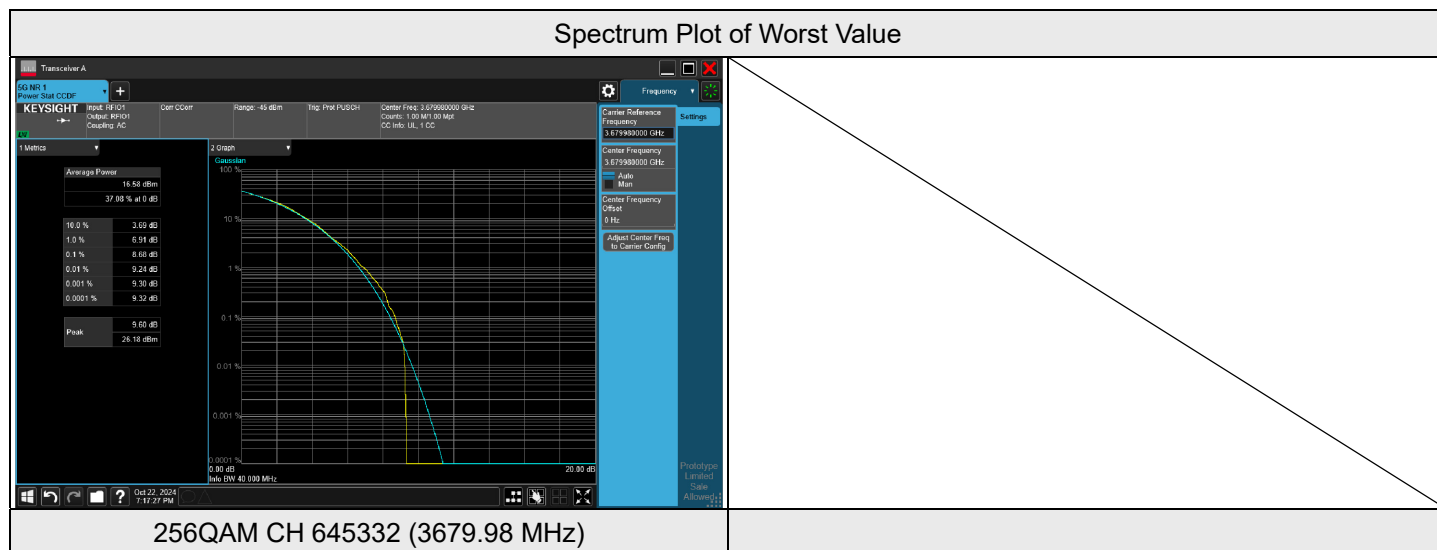
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
BPSK	1	77	4.61	4.52	4.52
	1	0	4.73	4.62	4.43
	75	0	4.47	4.37	4.42
QPSK	1	77	7.62	7.38	7.37
	1	0	7.34	7.46	7.43
	78	0	8.10	7.92	7.86
16QAM	1	77	7.34	7.96	7.51
	1	0	7.43	7.54	7.80
	78	0	8.02	7.71	7.97
64QAM	1	77	7.81	7.86	7.71
	1	0	7.87	7.49	7.93
	78	0	8.13	8.00	8.32
256QAM	1	77	8.44	8.22	8.34
	1	0	8.40	8.88	8.75
	78	0	8.21	8.68	8.55

Spectrum Plot of Worst Value



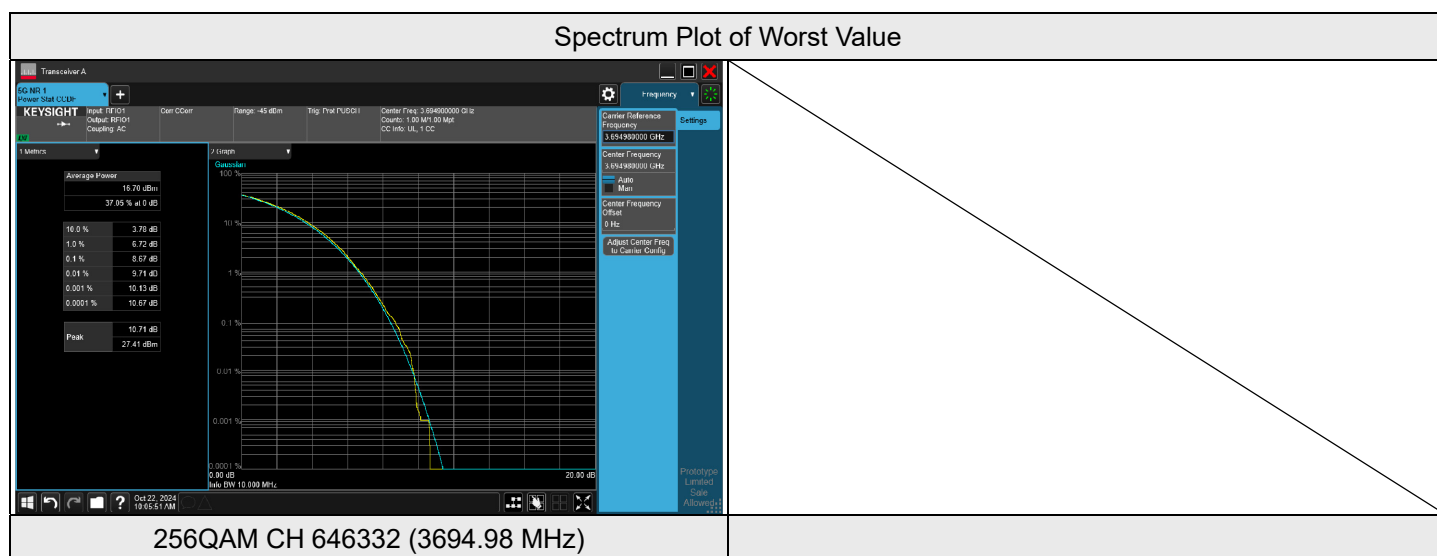
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 1, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
BPSK	1	105	3.99	4.54	4.45
	1	0	4.06	4.75	4.71
	100	0	4.25	4.83	4.56
QPSK	1	105	6.96	7.44	7.62
	1	0	6.82	7.40	7.51
	106	0	8.29	8.02	7.97
16QAM	1	105	7.20	7.71	7.55
	1	0	7.33	7.20	7.53
	106	0	8.03	7.81	7.94
64QAM	1	105	8.05	8.17	8.08
	1	0	8.63	7.87	7.81
	106	0	8.26	8.21	8.29
256QAM	1	105	8.60	8.20	8.19
	1	0	8.17	8.49	8.68
	106	0	8.31	8.42	8.59



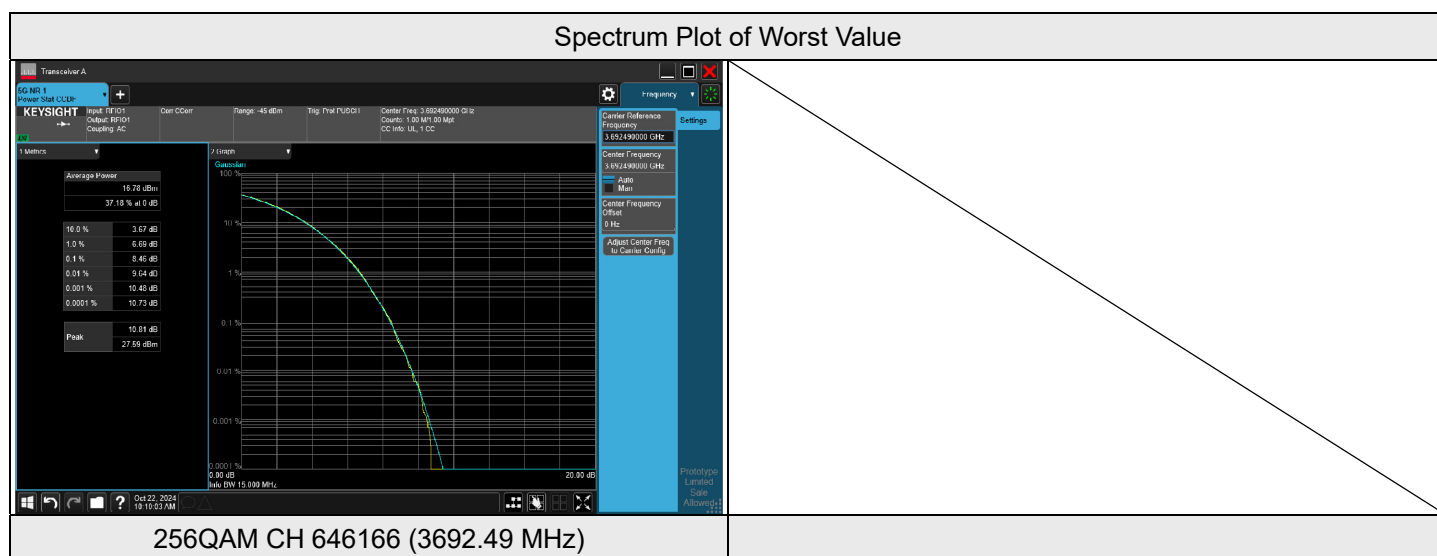
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 4, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637000	CH 641666	CH 646332
			3555 MHz	3624.99 MHz	3694.98 MHz
BPSK	1	23	4.37	4.20	4.16
	1	0	4.38	4.28	4.25
	24	0	4.12	4.23	4.46
QPSK	1	23	7.36	7.54	7.65
	1	0	7.48	7.64	7.54
	24	0	7.96	8.15	8.01
16QAM	1	23	7.81	8.09	7.91
	1	0	7.95	8.10	7.94
	24	0	7.91	7.80	8.10
64QAM	1	23	7.65	7.58	7.82
	1	0	7.66	7.78	7.97
	24	0	7.89	7.98	8.02
256QAM	1	23	7.55	7.54	7.34
	1	0	7.76	7.85	7.27
	24	0	8.58	8.42	8.67



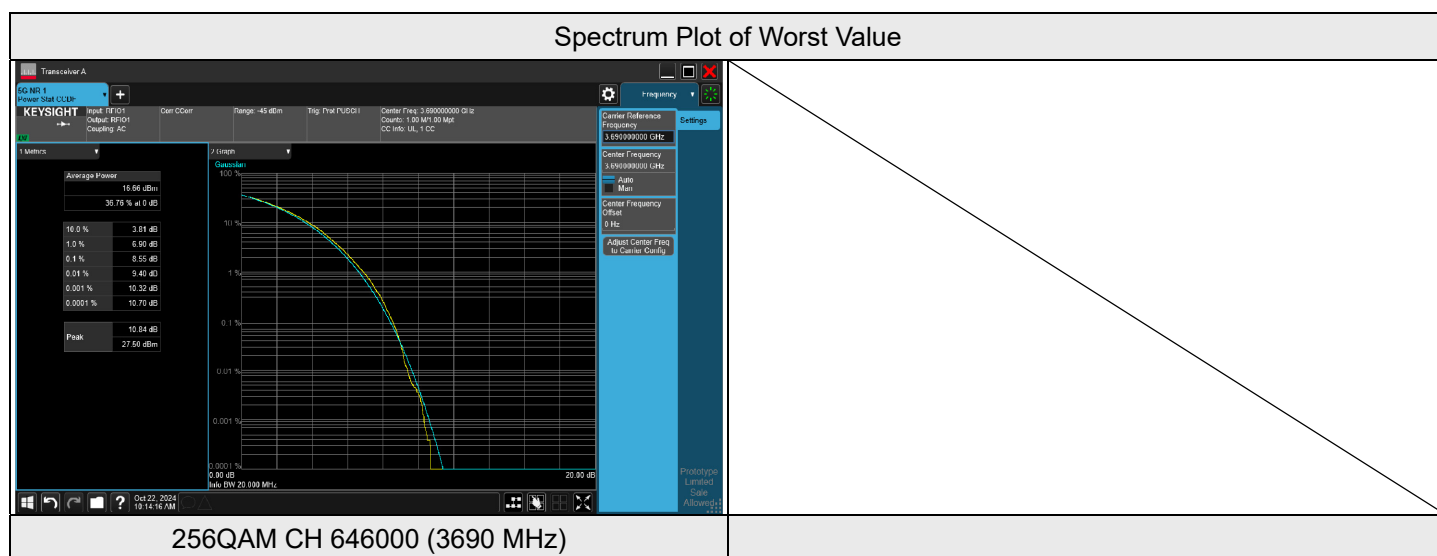
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 4, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637168	CH 641666	CH 646166
			3557.52 MHz	3624.99 MHz	3692.49 MHz
BPSK	1	37	4.20	4.13	4.34
	1	0	4.28	4.24	4.28
	36	0	4.31	4.43	4.61
QPSK	1	37	7.23	7.16	7.53
	1	0	7.32	7.51	7.44
	38	0	8.13	7.92	8.01
16QAM	1	37	7.90	8.11	8.20
	1	0	8.16	8.29	8.07
	38	0	8.15	7.91	8.19
64QAM	1	37	7.63	7.63	7.82
	1	0	7.69	7.85	7.97
	38	0	7.70	7.84	7.95
256QAM	1	37	7.94	7.99	7.52
	1	0	7.78	7.75	7.51
	38	0	8.35	8.41	8.46



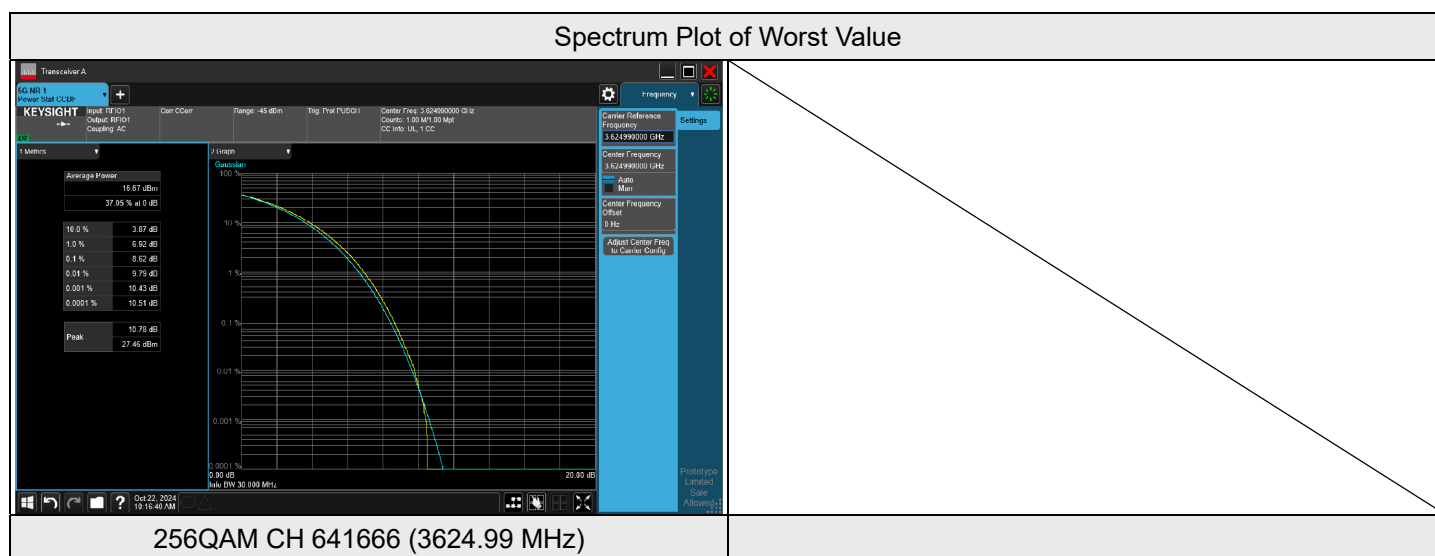
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 4, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637334	CH 641666	CH 646000
			3560.01 MHz	3624.99 MHz	3690 MHz
BPSK	1	50	4.20	4.23	4.47
	1	0	4.25	4.20	4.21
	50	0	4.48	4.38	4.62
QPSK	1	50	7.15	7.15	7.58
	1	0	7.41	7.08	7.47
	51	0	8.15	8.05	8.26
16QAM	1	50	7.96	8.21	8.22
	1	0	7.85	8.11	8.38
	51	0	8.08	8.14	8.19
64QAM	1	50	7.70	7.55	7.87
	1	0	7.51	7.69	7.84
	51	0	8.08	8.30	8.21
256QAM	1	50	7.48	8.33	8.47
	1	0	7.23	7.75	7.34
	51	0	8.32	8.41	8.55



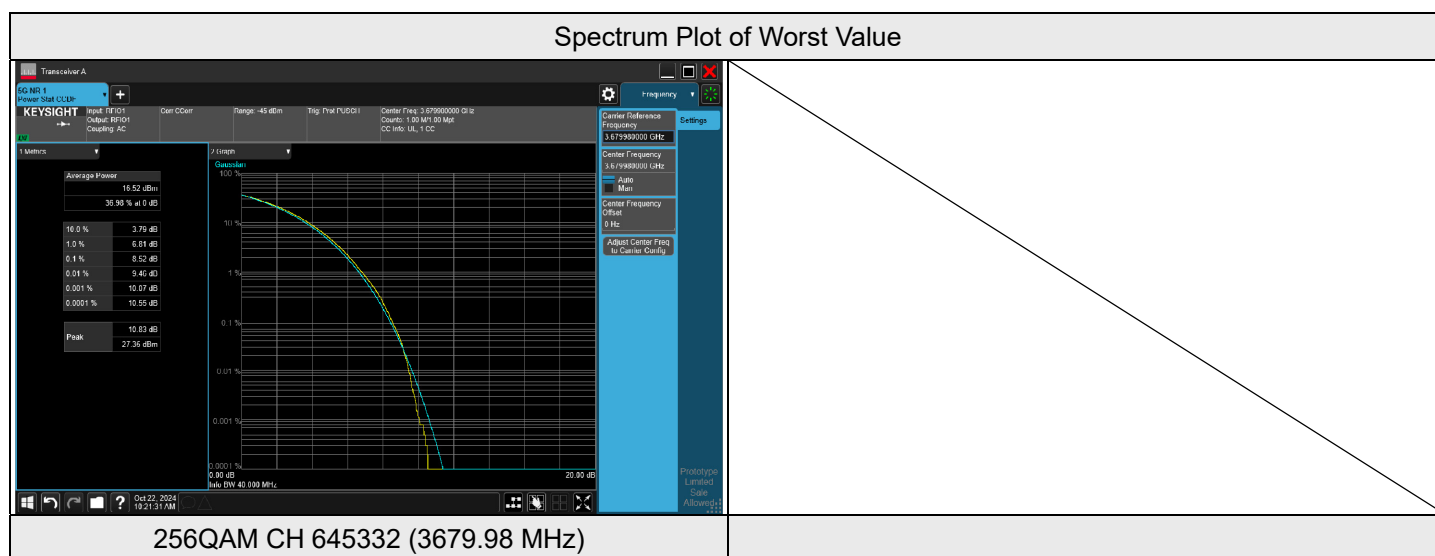
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 4, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 637668	CH 641666	CH 645666
			3565.02 MHz	3624.99 MHz	3684.99 MHz
BPSK	1	77	4.41	4.32	4.52
	1	0	4.16	4.08	4.49
	75	0	4.30	4.61	4.62
QPSK	1	77	7.57	6.91	6.98
	1	0	7.17	7.60	7.46
	78	0	8.32	8.05	8.10
16QAM	1	77	7.71	7.76	8.00
	1	0	7.88	8.24	8.05
	78	0	7.82	7.81	8.14
64QAM	1	77	7.88	7.70	7.79
	1	0	7.72	7.64	7.53
	78	0	7.94	7.87	8.22
256QAM	1	77	7.39	7.49	7.80
	1	0	7.37	8.23	7.74
	78	0	8.40	8.62	8.42



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant 4, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 638000	CH 641666	CH 645332
			3570 MHz	3624.99 MHz	3679.98 MHz
BPSK	1	105	4.30	4.48	4.38
	1	0	4.14	4.19	4.14
	100	0	4.32	4.51	4.43
QPSK	1	105	7.85	7.79	7.41
	1	0	7.34	7.19	7.54
	106	0	8.05	8.08	8.04
16QAM	1	105	8.18	7.92	8.30
	1	0	8.34	8.18	7.81
	106	0	7.98	8.25	8.25
64QAM	1	105	7.77	8.23	7.52
	1	0	7.89	7.91	7.65
	106	0	7.95	8.11	8.09
256QAM	1	105	7.34	7.43	7.98
	1	0	7.32	7.27	8.09
	106	0	8.41	8.41	8.52



7.4 Bandwidth

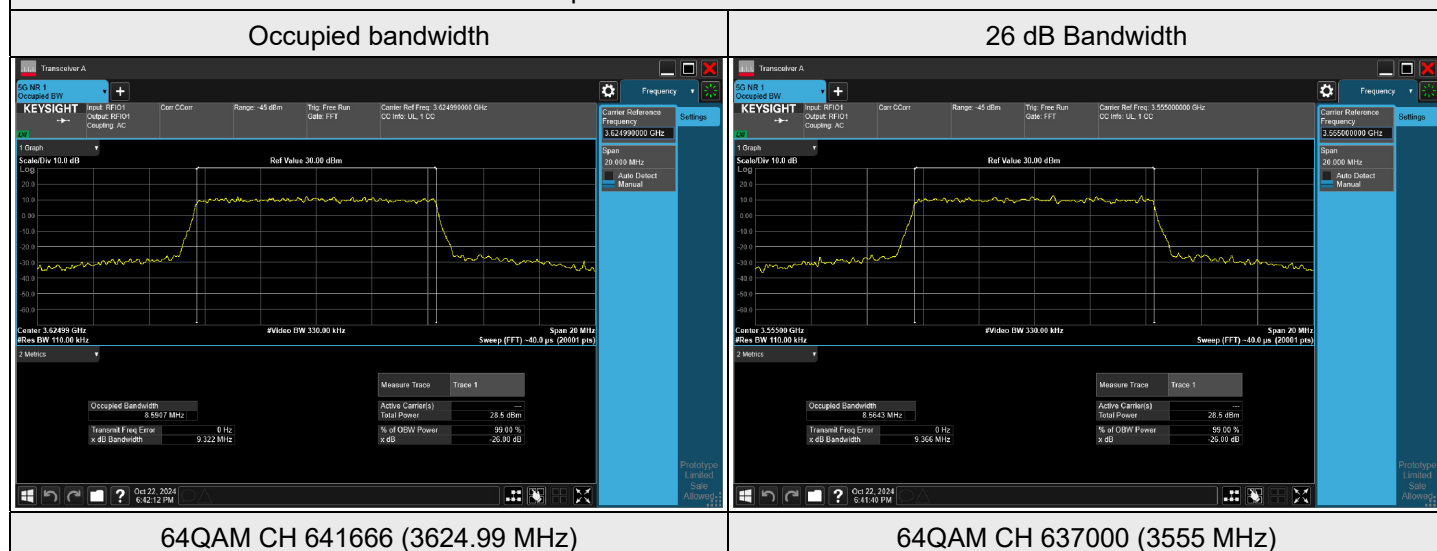
Input Power:	7.2 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	James Yang
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7.4.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant. 1, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637000	3555	8.5485	9.170
BPSK	641666	3624.99	8.5526	9.130
BPSK	646332	3694.98	8.5588	9.307
QPSK	637000	3555	8.5706	9.281
QPSK	641666	3624.99	8.5866	9.320
QPSK	646332	3694.98	8.5645	9.198
16QAM	637000	3555	8.5488	9.263
16QAM	641666	3624.99	8.5620	9.344
16QAM	646332	3694.98	8.5661	9.249
64QAM	637000	3555	8.5643	9.366
64QAM	641666	3624.99	8.5907	9.322
64QAM	646332	3694.98	8.5862	9.355
256QAM	637000	3555	8.5549	9.230
256QAM	641666	3624.99	8.5426	9.207
256QAM	646332	3694.98	8.5623	9.209

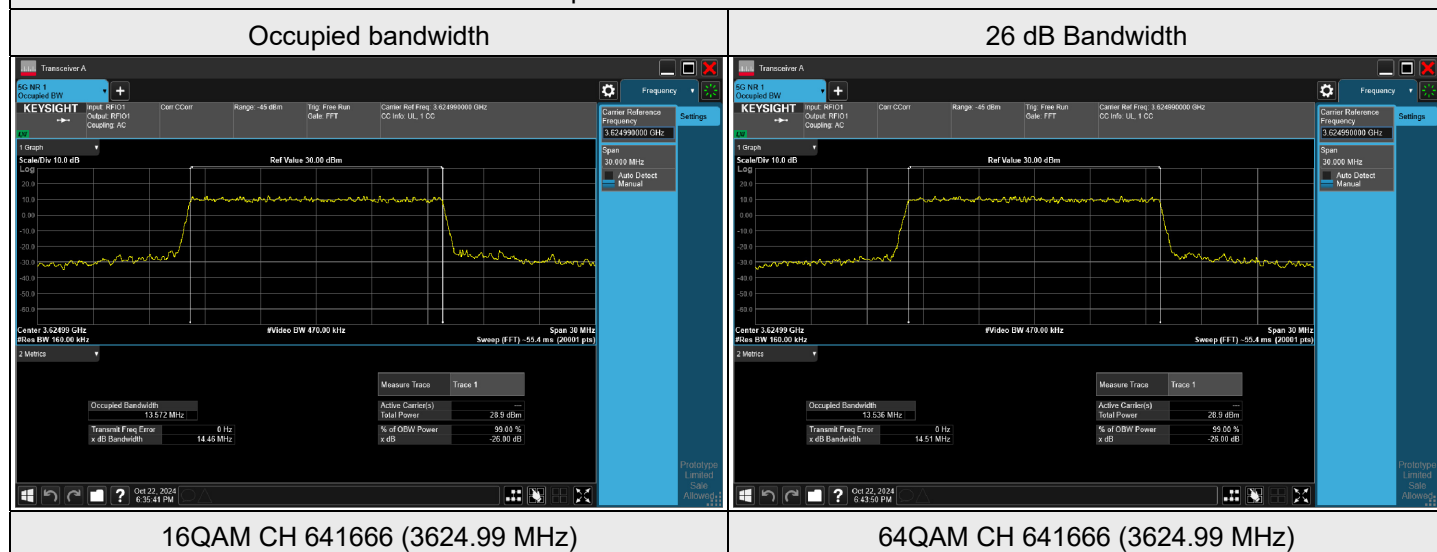
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant. 1, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637168	3557.52	13.459	13.64
BPSK	641666	3624.99	13.456	13.62
BPSK	646166	3692.49	13.446	13.71
QPSK	637168	3557.52	13.561	14.39
QPSK	641666	3624.99	13.566	14.32
QPSK	646166	3692.49	13.560	14.36
16QAM	637168	3557.52	13.549	14.35
16QAM	641666	3624.99	13.572	14.46
16QAM	646166	3692.49	13.557	14.40
64QAM	637168	3557.52	13.537	14.36
64QAM	641666	3624.99	13.536	14.51
64QAM	646166	3692.49	13.513	14.34
256QAM	637168	3557.52	13.558	14.42
256QAM	641666	3624.99	13.570	14.38
256QAM	646166	3692.49	13.549	14.32

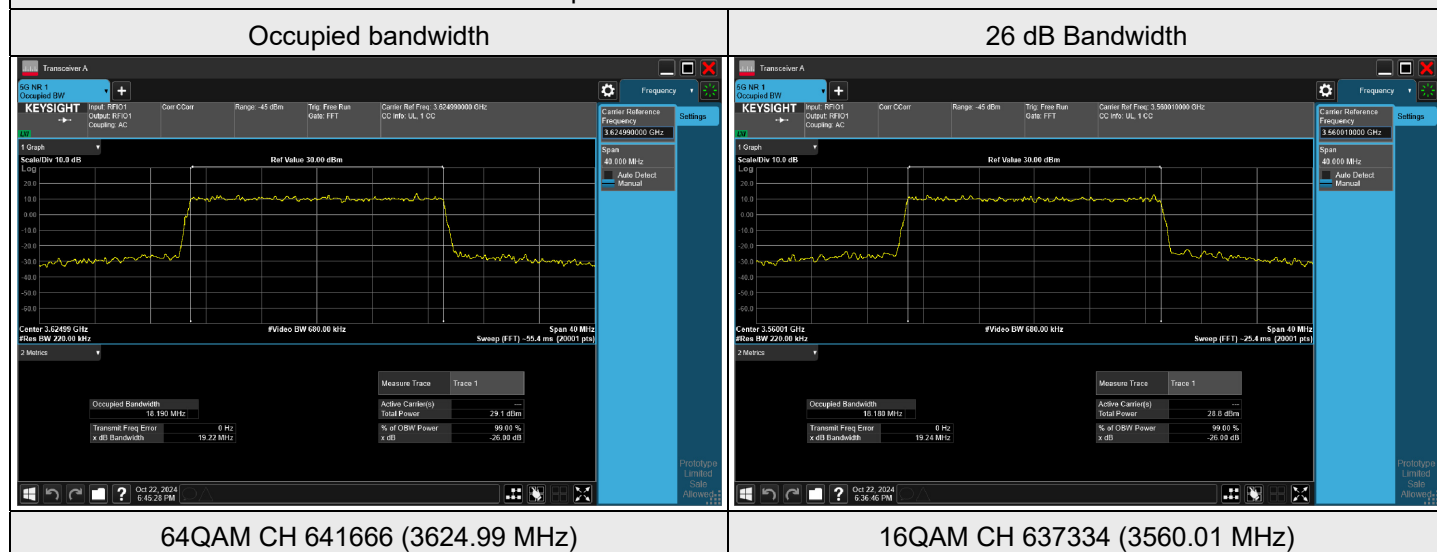
Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant. 1, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637334	3560.01	18.005	18.79
BPSK	641666	3624.99	18.021	18.81
BPSK	646000	3690	18.014	18.79
QPSK	637334	3560.01	18.118	19.21
QPSK	641666	3624.99	18.181	19.13
QPSK	646000	3690	18.181	19.15
16QAM	637334	3560.01	18.180	19.24
16QAM	641666	3624.99	18.153	19.17
16QAM	646000	3690	18.169	19.19
64QAM	637334	3560.01	18.145	19.11
64QAM	641666	3624.99	18.190	19.22
64QAM	646000	3690	18.162	19.16
256QAM	637334	3560.01	18.181	19.11
256QAM	641666	3624.99	18.149	19.16
256QAM	646000	3690	18.168	19.10

Spectrum Plot of Worst Value



NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz) - MIMO-Ant. 1, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637668	3565.02	27.535	28.18
BPSK	641666	3624.99	27.517	28.12
BPSK	645666	3684.99	27.547	28.09
QPSK	637668	3565.02	27.811	29.28
QPSK	641666	3624.99	27.758	29.01
QPSK	645666	3684.99	27.776	29.19
16QAM	637668	3565.02	27.822	29.25
16QAM	641666	3624.99	27.818	29.13
16QAM	645666	3684.99	27.788	29.44
64QAM	637668	3565.02	27.805	29.18
64QAM	641666	3624.99	27.783	29.30
64QAM	645666	3684.99	27.763	29.26
256QAM	637668	3565.02	27.776	29.24
256QAM	641666	3624.99	27.768	29.13
256QAM	645666	3684.99	27.795	29.22

Spectrum Plot of Worst Value

