

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 96
47 CFR FCC Part 2

Report No.: RFBBQZ-WTW-P26040594-10

FCC ID: PY326200664

Product: Nighthawk 5G M8 Pro

Brand: NETGEAR

Model No.: MR8400

Received Date: 2026/5/6

Test Date: 2026/6/9 ~ 2026/7/18

Issued Date: 2026/8/6

Applicant and Manufacturer: NETGEAR, INC.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 281270 / TW0032 for Test Location(1)

Designation Number: 788550 / TW0003 for Test Location(2)

Approved by:

Jeremy Lin

Date:

2026/8/6

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
RFBBQZ-WTW-P26040594-10	Original release.	2026/8/6

1 Certificate

Product: Nighthawk 5G M8 Pro

Brand: NETGEAR

Test Model: MR8400

Sample Status: Engineering sample

Applicant and Manufacturer: NETGEAR, INC.

Test Date: 2026/6/9 ~ 2026/7/18

Standard: 47 CFR FCC Part 96
47 CFR FCC Part 2

Measurement procedure: ANSI/TIA/EIA-603-E 2016
ANSI C63.26-2015
KDB 971168 D01 Power Meas License Digital Systems v03r01
KDB 940660 D01 Part 96 CBRS Eqpt v03

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 -6.55 dB at 798.24 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -1.42 dB at 7249.98 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	18 GHz ~ 40 GHz	1.77 dB
	1 GHz ~ 18 GHz	1.76 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	2.93 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	Nighthawk 5G M8 Pro
Brand	NETGEAR
Test Model	MR8400
Status of EUT	Engineering sample
Power Supply Rating	3.85 Vdc from Battery 5 Vdc / 9 Vdc from Adapter
EUT Category	Portable station
Modulation Type	DFT-s-OFDM, CP-OFDM
5G NR support SISO bands	n48
5G NR support MIMO bands	n48
PC3 for Power Class	n48
PC2 for Power Class	-
PC1.5 for Power Class	-
Band Covered Information	-

Note:

1. Based on engineering judgment and verification of the worst-case configuration, the WWAN bands for this device may reference the conducted test results of the certified modular device. Please refer to the table below for further details.

5G NR Band	Remark	Reference Module FCC ID
n2	Full Test (Enable PC2 MIMO mode)	FCC ID: GKRRXLN4N
n5	Conducted test result refer to module data	
n7	Conducted test result refer to module data	
n12	Conducted test result refer to module data	
n13	Conducted test result refer to module data	
n14	Conducted test result refer to module data	
n25	Conducted test result refer to module data	
n26	Conducted test result refer to module data	
n30	Conducted test result refer to module data	
n38	Full Test (Remove MIMO mode and enable SRS mode in n38)	
n40	Full Test (Enable n40 and SRS mode)	
n41	Full Test (Enable SRS mode)	
n48	Full Test (Enable MIMO mode and SRS mode)	
n66	Conducted test result refer to module data	
n70	Conducted test result refer to module data	
n71	Conducted test result refer to module data	
n77	Full Test (Enable SRS mode)	
n78	Full Test (Enable SRS mode)	

2. 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	0.163	22.11
		QPSK	0.166	22.2
		16QAM	0.134	21.27
		64QAM	0.106	20.25
		256QAM	0.059	17.68
15 MHz	3557.52 ~ 3692.49	BPSK	0.162	22.1
		QPSK	0.166	22.21
		16QAM	0.134	21.26
		64QAM	0.106	20.26
		256QAM	0.059	17.73
20 MHz	3560.01 ~ 3690	BPSK	0.163	22.13
		QPSK	0.167	22.23
		16QAM	0.135	21.29
		64QAM	0.107	20.3
		256QAM	0.060	17.76
30 MHz	3565.02 ~ 3684.99	BPSK	0.164	22.15
		QPSK	0.167	22.24
		16QAM	0.135	21.3
		64QAM	0.107	20.31
		256QAM	0.060	17.77
40 MHz	3570 ~ 3679.98	BPSK	0.165	22.18
		QPSK	0.169	22.29
		16QAM	0.136	21.32
		64QAM	0.108	20.33
		256QAM	0.060	17.76

Per 10 MHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
15 MHz	3557.52 ~ 3692.49	BPSK	0.153	21.85
		QPSK	0.157	21.96
		16QAM	0.126	21
		64QAM	0.100	19.98
		256QAM	0.055	17.41
20 MHz	3560.01 ~ 3690	BPSK	0.153	21.85
		QPSK	0.157	21.97
		16QAM	0.127	21.04
		64QAM	0.100	20.02
		256QAM	0.056	17.49

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
30 MHz	3565.02 ~ 3684.99	BPSK	0.157	21.95
		QPSK	0.160	22.04
		16QAM	0.128	21.08
		64QAM	0.102	20.1
		256QAM	0.057	17.56
40 MHz	3570 ~ 3679.98	BPSK	0.157	21.96
		QPSK	0.160	22.05
		16QAM	0.129	21.12
		64QAM	0.102	20.1
		256QAM	0.057	17.54

2TX

Full power

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
10 MHz	3555 ~ 3694.98	BPSK	0.177	22.47	8M59G7D
		QPSK	0.182	22.59	8M59G7D
		16QAM	0.146	21.63	8M58D7W
		64QAM	0.115	20.61	8M58D7W
		256QAM	0.064	18.06	8M59D7W
15 MHz	3557.52 ~ 3692.49	BPSK	0.177	22.47	12M9G7D
		QPSK	0.18	22.56	13M6G7D
		16QAM	0.145	21.62	13M6D7W
		64QAM	0.115	20.62	13M6D7W
		256QAM	0.064	18.08	13M6D7W
20 MHz	3560.01 ~ 3690	BPSK	0.169	22.27	17M9G7D
		QPSK	0.173	22.39	18M2G7D
		16QAM	0.14	21.45	18M2D7W
		64QAM	0.111	20.46	18M2D7W
		256QAM	0.062	17.92	18M2D7W
30 MHz	3565.02 ~ 3684.99	BPSK	0.171	22.34	26M8G7D
		QPSK	0.175	22.44	27M9G7D
		16QAM	0.141	21.49	27M9D7W
		64QAM	0.112	20.51	27M9D7W
		256QAM	0.062	17.94	27M9D7W
40 MHz	3570 ~ 3679.98	BPSK	0.178	22.5	35M8G7D
		QPSK	0.182	22.61	37M9G7D
		16QAM	0.146	21.64	37M9D7W
		64QAM	0.115	20.62	37M9D7W
		256QAM	0.064	18.08	37M9D7W

Per 10 MHz

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
15 MHz	3557.52 ~ 3692.49	BPSK	0.171	22.33	12M9G7D
		QPSK	0.175	22.42	13M6G7D
		16QAM	0.140	21.46	13M6D7W
		64QAM	0.112	20.48	13M6D7W
		256QAM	0.062	17.95	13M6D7W
20 MHz	3560.01 ~ 3690	BPSK	0.166	22.2	17M9G7D
		QPSK	0.170	22.3	18M2G7D
		16QAM	0.136	21.34	18M2D7W
		64QAM	0.109	20.36	18M2D7W
		256QAM	0.061	17.83	18M2D7W
30 MHz	3565.02 ~ 3684.99	BPSK	0.169	22.27	26M8G7D
		QPSK	0.172	22.35	27M9G7D
		16QAM	0.138	21.39	27M9D7W
		64QAM	0.109	20.39	27M9D7W
		256QAM	0.061	17.83	27M9D7W
40 MHz	3570 ~ 3679.98	BPSK	0.174	22.41	35M8G7D
		QPSK	0.178	22.51	37M9G7D
		16QAM	0.143	21.55	37M9D7W
		64QAM	0.113	20.54	37M9D7W
		256QAM	0.063	17.97	37M9D7W

3. The EUT uses following accessories.

Battery	Brand	NETGEAR
	Model	W-20b
	Power Rating	3.85V, 19.96Wh
AC Adapter 1	Brand	NETGEAR
	Model	2AGD02131
	Part Number	332-11838-01
	AC Input	100-120Vac, 50/60 Hz
	DC Output	5V/9V, 3A/2.34A
	Manufacturer	CHANNEL WELL TECHNOLOGY
AC Adapter 2	Brand	NETGEAR
	Model	ADT-21NPD-09-EPCU
	Part Number	332-11830-01
	AC Input	100-120Vac, 50/60 Hz
	DC Output	5V/9V, 3A/2.34A
	Manufacturer	Honor: Vietnam Honor High Tech Co., Ltd.
Type C Cable	Brand	JI-HAW ELECTRONICS CO., LTD
	Model	310-10092-01
	Signal Line	0.95M

4. For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.

5. 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.

Type		Monopole				
Connector		NA				
Band		Freq. Range (MHz)	Gain (dBi)			
			Ant. 0	Ant. 1	Ant. 2	Ant. 3
5G NR n2	1TX (Ant. 0) 2TX (Ant. 0 + 3)	1850~1910	1.26	-	-	2.21
5G NR n5	1TX (Ant. 0)	824 ~ 849	1.12	-	-	-
5G NR n7	1TX (Ant. 3)	2500 ~ 2570	1.25	-	-	1.58
5G NR n12	1TX (Ant. 0)	698 ~ 716	-0.3	-	-	-
5G NR n13	1TX (Ant. 0)	777 ~ 787	-0.08	-	-	-
5G NR n14	1TX (Ant. 0)	788 ~ 798	-0.08	-	-	-
5G NR n25	1TX (Ant. 0)	1850 ~ 1915	1.26	-	-	2.21
5G NR n26	1TX (Ant. 0)	814 ~ 849	1.12	-	-	-
5G NR n30	1TX (Ant. 3) 2TX (Ant. 0 + 3)	2305 ~ 2315	0.85	-	-	1.41
5G NR n38	1TX (Ant. 3)	2570 ~ 2620	1.03	-	-	1.58
5G NR n40	1TX (Ant. 3)	2300 ~ 2400	-	-	-	1.41
5G NR n41	1TX (Ant. 3) 2TX (Ant. 0 + 3)	2496 ~ 2690	1.25	1.01	1.09	1.58
5G NR n48	1TX (Ant. 0) 2TX (Ant. 0 + 3)	3550 ~ 3700	3.31	2.14	1.83	2.07
5G NR n66	1TX (Ant. 0) 2TX (Ant. 0 + 3)	1710 ~ 1780	1.14	-	-	1.37
5G NR n70	1TX (Ant. 0)	1695 ~ 1720	1.14	-	-	1.37
5G NR n71	1TX (Ant. 0)	663 ~ 698	-1.12	-	-	-
5G NR n77	1TX (Ant. 0) 2TX (Ant. 0 + 3)	3300 ~ 4200	3.56	2.99	2.85	2.37
5G NR n78	1TX (Ant. 0) 2TX (Ant. 0 + 3)	3300 ~ 3800	3.56	2.41	2.85	2.07

* 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.

* The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	- 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. - EUT has the following AC Adapter: AC Adapter 1 / AC Adapter 2. Pre-scan these AC Adapters and find the worst case as a representative test condition. - Pre-Scan has been conducted to determine the worst-case from all possible combinations of EUT configure mode (1Tx or 2Tx if available), power class, channel, bandwidth, modulation and RB mode. See below table(s) for details.
Worst Case:	- X-axis/ Y-axis / Z-axis Worst Condition: X-axis - Adapter Worst Condition: AC Adapter 2

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

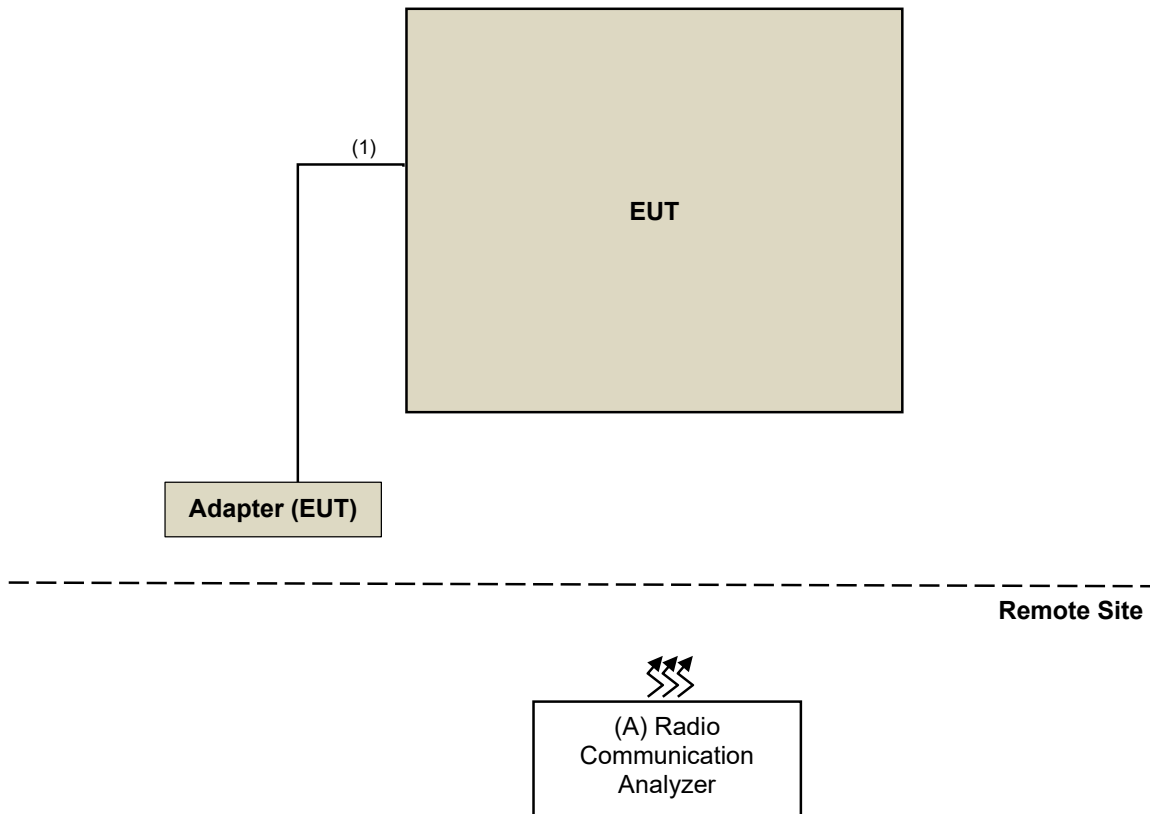
Test Item	Power Class	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	PC3	1TX (Ant. 0) 2TX (Ant. 0 + 3)	637000(3555.00 MHz) 641666(3624.99 MHz) 646333(3694.98 MHz)	10 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
			637168(3557.52 MHz) 641666(3624.99 MHz) 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	PC3	1TX (Ant. 0)	641666(3624.99 MHz)	40 MHz	BPSK / QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	PC3	2TX (Ant. 0 + 3)	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	Power Class	Tx/Rx Condition	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	PC3	2TX (Ant. 0 + 3)	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	PC3	2TX (Ant. 0 + 3)	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	PC3	2TX (Ant. 0 + 3)	641666(3624.99 MHz)	40 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	PC3	2TX (Ant. 0 + 3)	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
Frequency Stability	-	-	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	Radio Communication Test Station	Anritsu	E7515B	MY58300759	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Type C Cable	1	0.95	No	0	Supplied by applicant

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
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210104A18E	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier Agilent	83017A	MY39501357	2026/6/10	2027/6/9
Preamplifier EMCI	EMC184045SE	980788	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2026/1/13	2027/1/12
		201255	2026/1/13	2027/1/12
	EMC101G-KM-KM-5000	201261	2026/1/13	2027/1/12
	EMC104-SM-SM-1000	210103	2026/1/13	2027/1/12
	EMC104-SM-SM-3000	201241	2026/1/13	2027/1/12
	EMC104-SM-SM-9000	201244	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSV3044	101504	2026/6/29	2027/6/28
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9(Wenming).
2. Tested Date: 2026/7/18

4.2 Modulation Characteristics

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
PXA Signal Analyzer Keysight	N9030B	MY57140953	2025/7/31	2026/7/30
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2026/6/9	2027/6/8
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/6/9 ~ 2026/7/17

4.3 Peak to Average Ratio

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
PXA Signal Analyzer Keysight	N9030B	MY57140953	2025/7/31	2026/7/30
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/6/9 ~ 2026/7/17

4.4 Bandwidth

Refer to section 4.3 to get the tested date and information of the instruments.

4.5 Conducted Spurious Emissions

Refer to section 4.3 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 Max-Full	MFA-515BSN	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1214	2025/9/18	2026/9/17
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier EMCI	EMC330N	980798	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201248	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-3000	201249	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-9000	201251(with PAD)	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9(Wenming).
2. Tested Date: 2026/6/11

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFA-515BSN	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210104A18E	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier Agilent	83017A	MY39501357	2026/6/10	2027/6/9
Preamplifier EMCI	EMC184045SE	980788	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2026/1/13	2027/1/12
		201255	2026/1/13	2027/1/12
	EMC101G-KM-KM-5000	201261	2026/1/13	2027/1/12
	EMC104-SM-SM-1000	210103	2026/1/13	2027/1/12
	EMC104-SM-SM-3000	201241	2026/1/13	2027/1/12
	EMC104-SM-SM-9000	201244	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18 2026/6/29	2026/6/17 2027/6/28
Software BV ADT	ADT_Radiated_ V7.7.1.1.1	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208676	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 9(Wenming).
2. Tested Date: 2026/6/17 ~ 2026/7/8

4.8 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply OWON	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	8050A	4660081	2026/6/5	2027/6/4
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2026/5/21	2027/5/20
MXA Signal Analyzer Keysight	N9020B	MY60110462	2026/5/5	2027/5/4
Signal & Spectrum Analyzer R&S	FSV3044	101505	2026/6/15	2027/6/14
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	MHU-225AU	920842	2026/7/2	2027/7/1

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/7/18

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

Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.

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 -40 dBm/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).

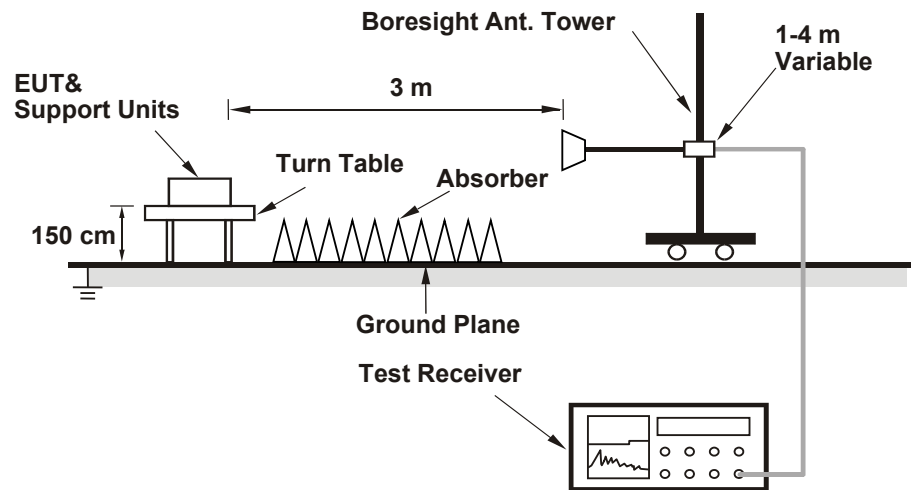
6 Test Arrangements

6.1 Maximum EIRP

6.1.1 Test Setup

Radiated Power EIRP / ERP Measurement:

For Radiated Emission above 1 GHz



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

6.1.2 Test Procedure

Radiated Power EIRP / ERP Measurement:

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

Set the EUT to transmit under low, middle and high channel and record the power level shown on spectrum analyzer.

- a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 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 C63.26 section 5.5 and 5.2.7. Set the detector to power averaging (rms) detector.
 - $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; 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.

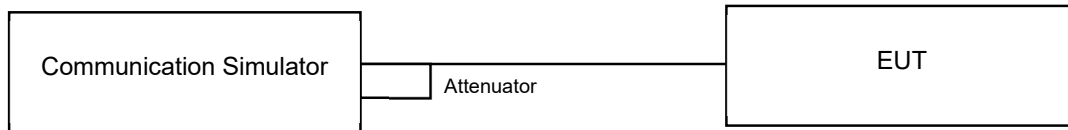
Spectrum analyzer setting as below:

Measurement method refers to ANSI C63.26 section 5.2.4.4.

- a. Set span to $2 \times$ to $3 \times$ the OBW.
- b. Set RBW = 1% to 5% of the OBW.
- c. Set VBW $\geq 3 \times$ RBW.
- d. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e. Set Sweep time = auto-couple.
- f. Detector = power averaging (rms).
- g. Set sweep trigger to "free run."
- h. Trace average at least 100 traces in power averaging (rms) mode.
- i. 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.
- j. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW band edges.
- k. If Duty cycle < 98%, Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

6.2 Modulation Characteristics

6.2.1 Test Setup



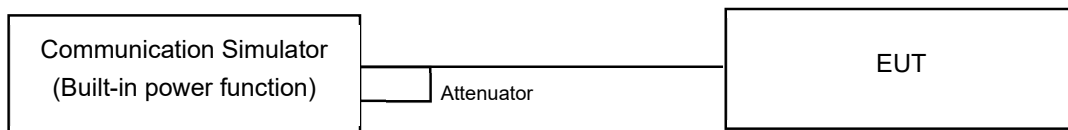
Note: The correction factor has already been compensated by the instrument.

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



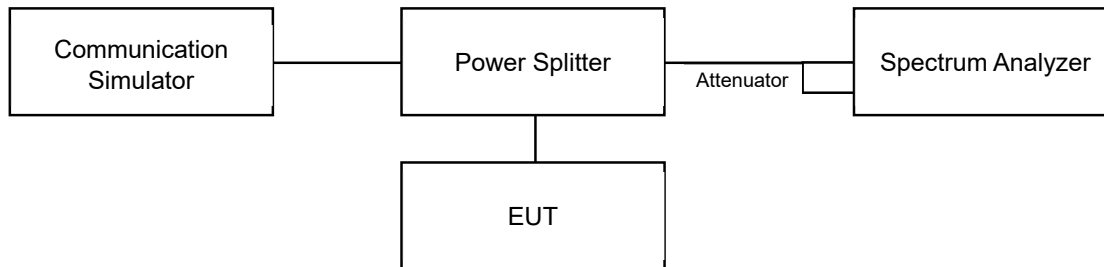
Note: The correction factor has already been compensated by the instrument.

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



Note: The correction factor has already been compensated by the instrument.

6.4.2 Test Procedure

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

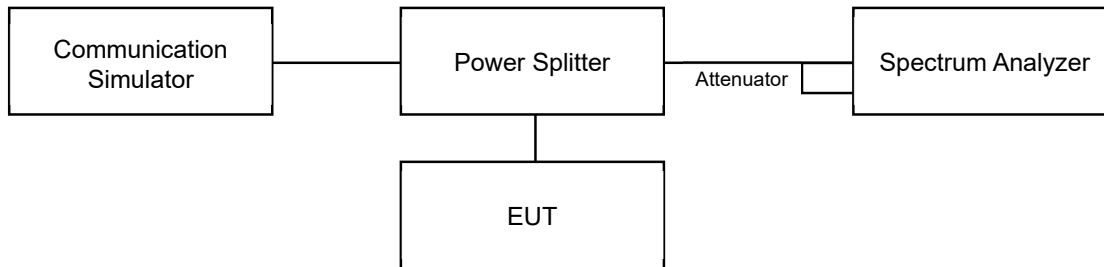
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and 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. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- e. If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f. The OBW shall be reported by providing plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



Note: The correction factor has already been compensated by the instrument.

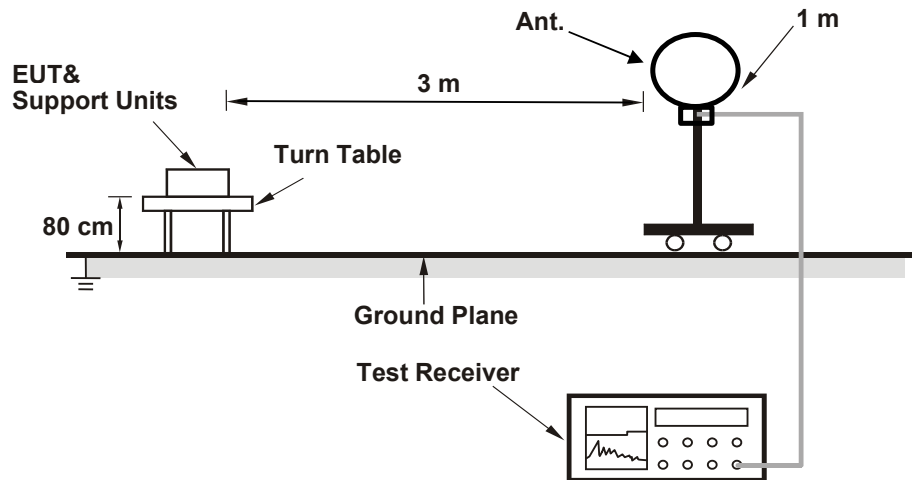
6.5.2 Test Procedure

- 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. 10 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.
- Record the maximum power value test plot.

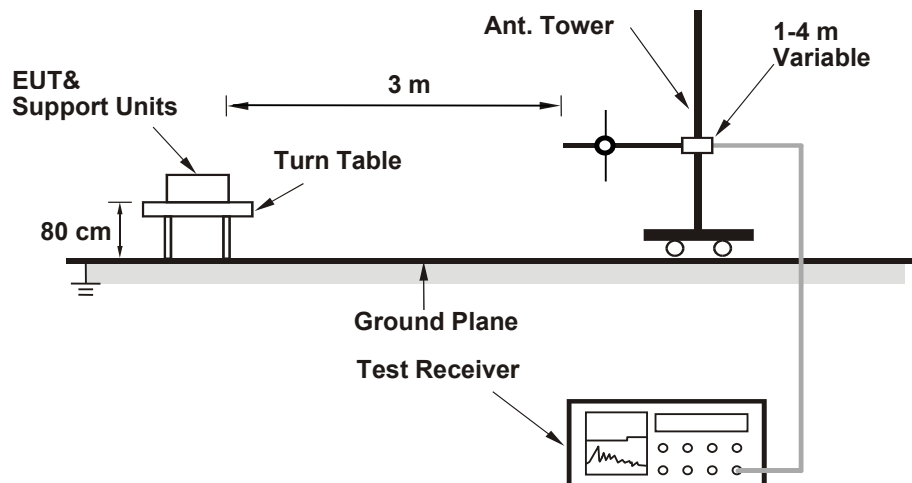
6.6 Radiated Spurious Emissions below 1GHz

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.

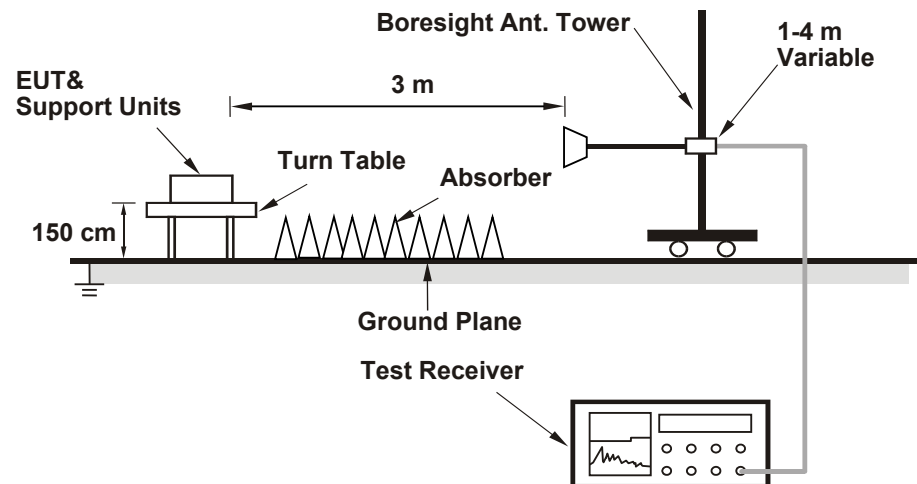
Note:

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

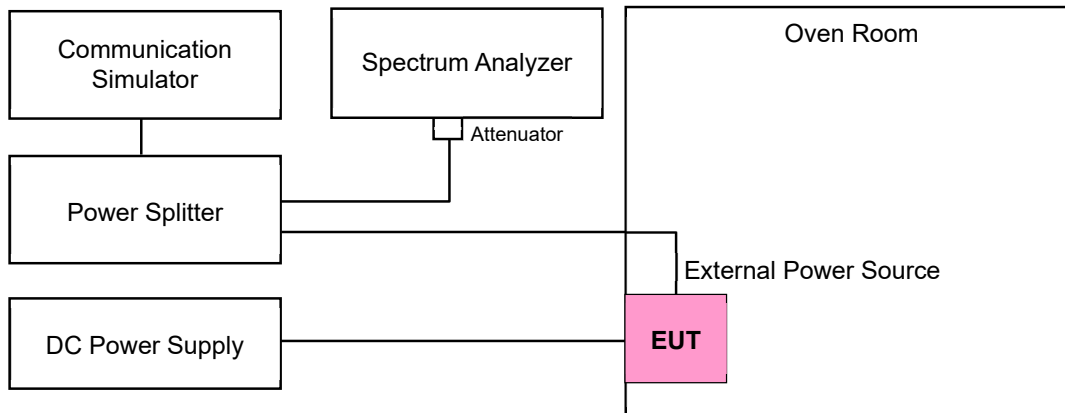
The EUT is configured to set data modulation and maximum power using WWAN technology.

- a. 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.
- 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: 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

Environmental Conditions:	25°C, 60% RH	Tested By:	Greg Lin
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7.1.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

1TX

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637000	3555	117.22	-95.26	157.036	21.96	23
	641666	3624.99	117.2	-95.26	156.315	21.94	23
	646333	3694.98	117.37	-95.26	162.555	22.11	23
QPSK	637000	3555	117.31	-95.26	160.325	22.05	23
	641666	3624.99	117.32	-95.26	160.694	22.06	23
	646333	3694.98	117.46	-95.26	165.959	22.2	23
16QAM	637000	3555	116.36	-95.26	128.825	21.1	23
	641666	3624.99	116.38	-95.26	129.42	21.12	23
	646333	3694.98	116.53	-95.26	133.968	21.27	23
64QAM	637000	3555	115.35	-95.26	102.094	20.09	23
	641666	3624.99	115.4	-95.26	103.276	20.14	23
	646333	3694.98	115.51	-95.26	105.925	20.25	23
256QAM	637000	3555	112.82	-95.26	57.016	17.56	23
	641666	3624.99	112.86	-95.26	57.544	17.6	23
	646333	3694.98	112.94	-95.26	58.614	17.68	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637168	3557.52	117.36	-95.26	162.181	22.1	23
	641666	3624.99	117.2	-95.26	156.315	21.94	23
	646166	3692.49	117.24	-95.26	157.761	21.98	23
QPSK	637168	3557.52	117.47	-95.26	166.341	22.21	23
	641666	3624.99	117.3	-95.26	159.956	22.04	23
	646166	3692.49	117.32	-95.26	160.694	22.06	23
16QAM	637168	3557.52	116.52	-95.26	133.66	21.26	23
	641666	3624.99	116.36	-95.26	128.825	21.1	23
	646166	3692.49	116.36	-95.26	128.825	21.1	23
64QAM	637168	3557.52	115.52	-95.26	106.17	20.26	23
	641666	3624.99	115.36	-95.26	102.329	20.1	23
	646166	3692.49	115.37	-95.26	102.565	20.11	23
256QAM	637168	3557.52	112.99	-95.26	59.293	17.73	23
	641666	3624.99	112.82	-95.26	57.016	17.56	23
	646166	3692.49	112.82	-95.26	57.016	17.56	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637334	3560.01	117.39	-95.26	163.305	22.13	23
	641666	3624.99	117	-95.26	149.279	21.74	23
	646000	3690	117.12	-95.26	153.462	21.86	23
QPSK	637334	3560.01	117.49	-95.26	167.109	22.23	23
	641666	3624.99	117.12	-95.26	153.462	21.86	23
	646000	3690	117.2	-95.26	156.315	21.94	23
16QAM	637334	3560.01	116.55	-95.26	134.586	21.29	23
	641666	3624.99	116.17	-95.26	123.31	20.91	23
	646000	3690	116.26	-95.26	125.893	21	23
64QAM	637334	3560.01	115.56	-95.26	107.152	20.3	23
	641666	3624.99	115.16	-95.26	97.724	19.9	23
	646000	3690	115.28	-95.26	100.462	20.02	23
256QAM	637334	3560.01	113.02	-95.26	59.704	17.76	23
	641666	3624.99	112.62	-95.26	54.45	17.36	23
	646000	3690	112.71	-95.26	55.59	17.45	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637668	3565.02	117.41	-95.26	164.059	22.15	23
	641666	3624.99	117.01	-95.26	149.624	21.75	23
	645666	3684.99	117.39	-95.26	163.305	22.13	23
QPSK	637668	3565.02	117.49	-95.26	167.109	22.23	23
	641666	3624.99	117.13	-95.26	153.815	21.87	23
	645666	3684.99	117.5	-95.26	167.494	22.24	23
16QAM	637668	3565.02	116.56	-95.26	134.896	21.3	23
	641666	3624.99	116.19	-95.26	123.88	20.93	23
	645666	3684.99	116.55	-95.26	134.586	21.29	23
64QAM	637668	3565.02	115.54	-95.26	106.66	20.28	23
	641666	3624.99	115.2	-95.26	98.628	19.94	23
	645666	3684.99	115.57	-95.26	107.399	20.31	23
256QAM	637668	3565.02	113.01	-95.26	59.566	17.75	23
	641666	3624.99	112.66	-95.26	54.954	17.4	23
	645666	3684.99	113.03	-95.26	59.841	17.77	23

Notes:

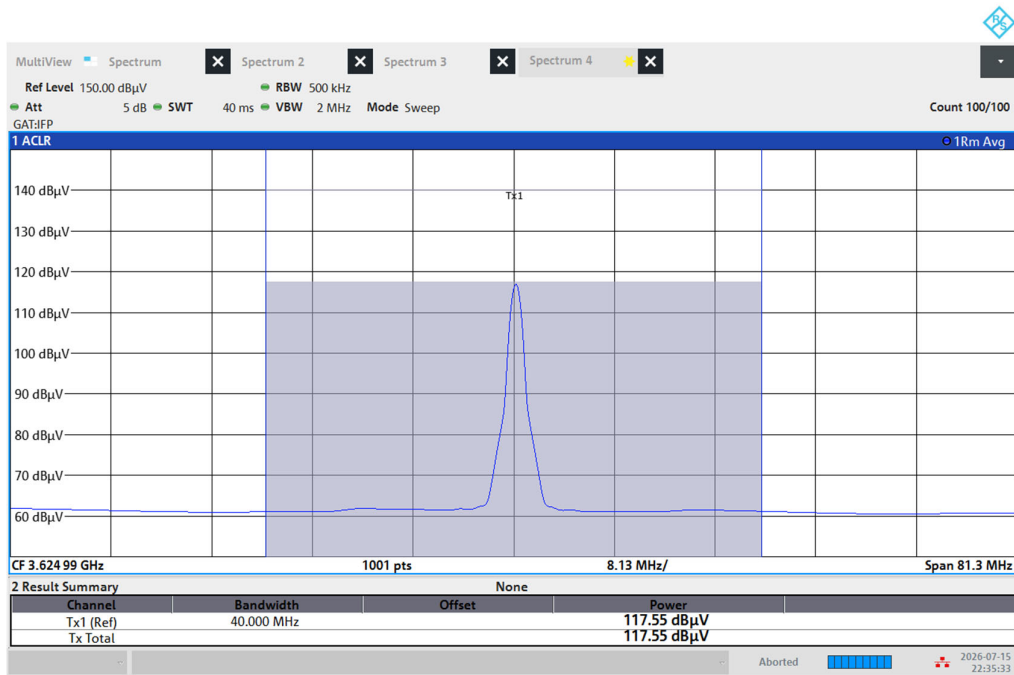
1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	638000	3570	117.01	-95.26	149.624	21.75	23
	641666	3624.99	117.44	-95.26	165.196	22.18	23
	645332	3679.98	117.24	-95.26	157.761	21.98	23
QPSK	638000	3570	117.1	-95.26	152.757	21.84	23
	641666	3624.99	117.55	-95.26	169.434	22.29	23
	645332	3679.98	117.36	-95.26	162.181	22.1	23
16QAM	638000	3570	116.16	-95.26	123.027	20.9	23
	641666	3624.99	116.58	-95.26	135.519	21.32	23
	645332	3679.98	116.43	-95.26	130.918	21.17	23
64QAM	638000	3570	115.17	-95.26	97.949	19.91	23
	641666	3624.99	115.59	-95.26	107.895	20.33	23
	645332	3679.98	115.44	-95.26	104.232	20.18	23
256QAM	638000	3570	112.6	-95.26	54.2	17.34	23
	641666	3624.99	113.02	-95.26	59.704	17.76	23
	645332	3679.98	112.9	-95.26	58.076	17.64	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637168	3557.52	116.79	-95.26	142.233	21.53	23
	641666	3624.99	116.83	-95.26	143.549	21.57	23
	646166	3692.49	117.11	-95.26	153.109	21.85	23
QPSK	637168	3557.52	116.91	-95.26	146.218	21.65	23
	641666	3624.99	116.92	-95.26	146.555	21.66	23
	646166	3692.49	117.22	-95.26	157.036	21.96	23
16QAM	637168	3557.52	115.96	-95.26	117.49	20.7	23
	641666	3624.99	115.95	-95.26	117.22	20.69	23
	646166	3692.49	116.26	-95.26	125.893	21	23
64QAM	637168	3557.52	114.99	-95.26	93.972	19.73	23
	641666	3624.99	114.97	-95.26	93.541	19.71	23
	646166	3692.49	115.24	-95.26	99.541	19.98	23
256QAM	637168	3557.52	112.46	-95.26	52.481	17.2	23
	641666	3624.99	112.41	-95.26	51.88	17.15	23
	646166	3692.49	112.67	-95.26	55.081	17.41	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637334	3560.01	116.88	-95.26	145.211	21.62	23
	641666	3624.99	117.11	-95.26	153.109	21.85	23
	646000	3690	117.08	-95.26	152.055	21.82	23
QPSK	637334	3560.01	116.96	-95.26	147.911	21.7	23
	641666	3624.99	117.23	-95.26	157.398	21.97	23
	646000	3690	117.19	-95.26	155.955	21.93	23
16QAM	637334	3560.01	115.99	-95.26	118.304	20.73	23
	641666	3624.99	116.3	-95.26	127.057	21.04	23
	646000	3690	116.25	-95.26	125.603	20.99	23
64QAM	637334	3560.01	115.02	-95.26	94.624	19.76	23
	641666	3624.99	115.28	-95.26	100.462	20.02	23
	646000	3690	115.23	-95.26	99.312	19.97	23
256QAM	637334	3560.01	112.46	-95.26	52.481	17.2	23
	641666	3624.99	112.75	-95.26	56.105	17.49	23
	646000	3690	112.69	-95.26	55.335	17.43	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637668	3565.02	116.78	-95.26	141.906	21.52	23
	641666	3624.99	117.21	-95.26	156.675	21.95	23
	645666	3684.99	116.92	-95.26	146.555	21.66	23
QPSK	637668	3565.02	116.88	-95.26	145.211	21.62	23
	641666	3624.99	117.3	-95.26	159.956	22.04	23
	645666	3684.99	117.04	-95.26	150.661	21.78	23
16QAM	637668	3565.02	115.95	-95.26	117.22	20.69	23
	641666	3624.99	116.34	-95.26	128.233	21.08	23
	645666	3684.99	116.1	-95.26	121.339	20.84	23
64QAM	637668	3565.02	114.93	-95.26	92.683	19.67	23
	641666	3624.99	115.36	-95.26	102.329	20.1	23
	645666	3684.99	115.06	-95.26	95.499	19.8	23
256QAM	637668	3565.02	112.36	-95.26	51.286	17.1	23
	641666	3624.99	112.82	-95.26	57.016	17.56	23
	645666	3684.99	112.5	-95.26	52.966	17.24	23

Notes:

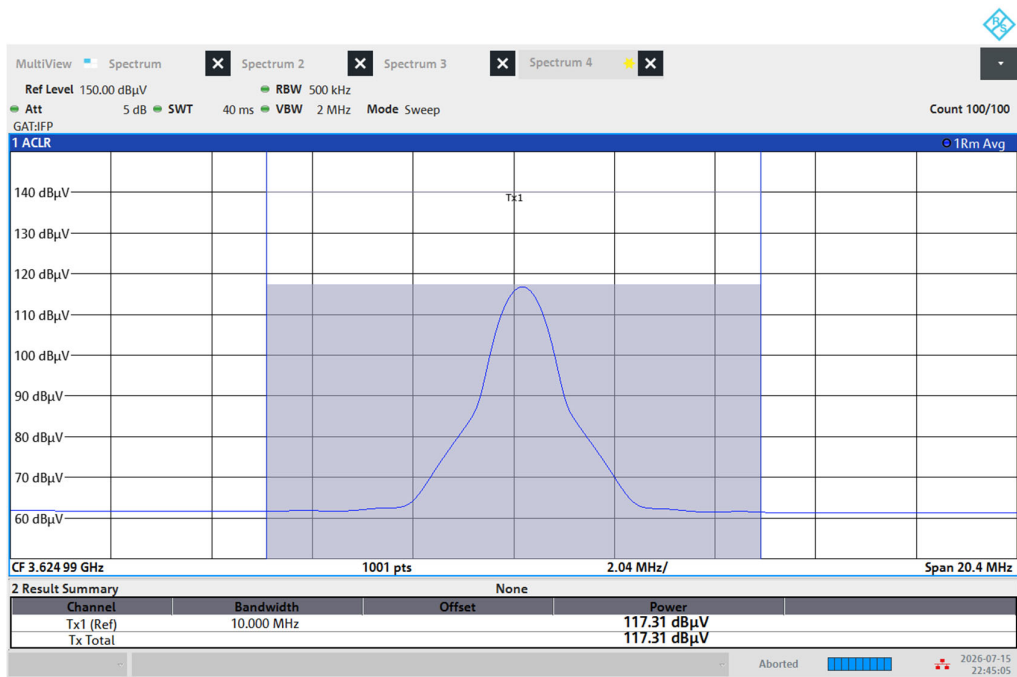
1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	638000	3570	117.02	-95.26	149.968	21.76	23
	641666	3624.99	117.22	-95.26	157.036	21.96	23
	645332	3679.98	116.89	-95.26	145.546	21.63	23
QPSK	638000	3570	117.13	-95.26	153.815	21.87	23
	641666	3624.99	117.31	-95.26	160.325	22.05	23
	645332	3679.98	116.97	-95.26	148.252	21.71	23
16QAM	638000	3570	116.18	-95.26	123.595	20.92	23
	641666	3624.99	116.38	-95.26	129.42	21.12	23
	645332	3679.98	116.04	-95.26	119.674	20.78	23
64QAM	638000	3570	115.18	-95.26	98.175	19.92	23
	641666	3624.99	115.36	-95.26	102.329	20.1	23
	645332	3679.98	115	-95.26	94.189	19.74	23
256QAM	638000	3570	112.65	-95.26	54.828	17.39	23
	641666	3624.99	112.8	-95.26	56.754	17.54	23
	645332	3679.98	112.47	-95.26	52.602	17.21	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637000	3555	117.64	-95.26	172.982	22.38	23
	641666	3624.99	117.73	-95.26	176.604	22.47	23
	646333	3694.98	117.57	-95.26	170.216	22.31	23
QPSK	637000	3555	117.74	-95.26	177.011	22.48	23
	641666	3624.99	117.85	-95.26	181.552	22.59	23
	646333	3694.98	117.67	-95.26	174.181	22.41	23
16QAM	637000	3555	116.77	-95.26	141.579	21.51	23
	641666	3624.99	116.89	-95.26	145.546	21.63	23
	646333	3694.98	116.74	-95.26	140.605	21.48	23
64QAM	637000	3555	115.78	-95.26	112.72	20.52	23
	641666	3624.99	115.87	-95.26	115.08	20.61	23
	646333	3694.98	115.74	-95.26	111.686	20.48	23
256QAM	637000	3555	113.21	-95.26	62.373	17.95	23
	641666	3624.99	113.32	-95.26	63.973	18.06	23
	646333	3694.98	113.19	-95.26	62.087	17.93	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637168	3557.52	117.73	-95.26	176.604	22.47	23
	641666	3624.99	117.57	-95.26	170.216	22.31	23
	646166	3692.49	117.57	-95.26	170.216	22.31	23
QPSK	637168	3557.52	117.82	-95.26	180.302	22.56	23
	641666	3624.99	117.66	-95.26	173.78	22.4	23
	646166	3692.49	117.65	-95.26	173.38	22.39	23
16QAM	637168	3557.52	116.88	-95.26	145.211	21.62	23
	641666	3624.99	116.69	-95.26	138.995	21.43	23
	646166	3692.49	116.7	-95.26	139.316	21.44	23
64QAM	637168	3557.52	115.88	-95.26	115.345	20.62	23
	641666	3624.99	115.68	-95.26	110.154	20.42	23
	646166	3692.49	115.69	-95.26	110.408	20.43	23
256QAM	637168	3557.52	113.34	-95.26	64.269	18.08	23
	641666	3624.99	113.12	-95.26	61.094	17.86	23
	646166	3692.49	113.16	-95.26	61.66	17.9	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637334	3560.01	117.52	-95.26	168.267	22.26	23
	641666	3624.99	117.53	-95.26	168.655	22.27	23
	646000	3690	117.4	-95.26	163.682	22.14	23
QPSK	637334	3560.01	117.64	-95.26	172.982	22.38	23
	641666	3624.99	117.65	-95.26	173.38	22.39	23
	646000	3690	117.52	-95.26	168.267	22.26	23
16QAM	637334	3560.01	116.68	-95.26	138.676	21.42	23
	641666	3624.99	116.71	-95.26	139.637	21.45	23
	646000	3690	116.57	-95.26	135.207	21.31	23
64QAM	637334	3560.01	115.69	-95.26	110.408	20.43	23
	641666	3624.99	115.72	-95.26	111.173	20.46	23
	646000	3690	115.56	-95.26	107.152	20.3	23
256QAM	637334	3560.01	113.15	-95.26	61.518	17.89	23
	641666	3624.99	113.18	-95.26	61.944	17.92	23
	646000	3690	112.99	-95.26	59.293	17.73	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637668	3565.02	117.47	-95.26	166.341	22.21	23
	641666	3624.99	117.56	-95.26	169.824	22.3	23
	645666	3684.99	117.6	-95.26	171.396	22.34	23
QPSK	637668	3565.02	117.59	-95.26	171.002	22.33	23
	641666	3624.99	117.67	-95.26	174.181	22.41	23
	645666	3684.99	117.7	-95.26	175.388	22.44	23
16QAM	637668	3565.02	116.63	-95.26	137.088	21.37	23
	641666	3624.99	116.7	-95.26	139.316	21.44	23
	645666	3684.99	116.75	-95.26	140.929	21.49	23
64QAM	637668	3565.02	115.65	-95.26	109.396	20.39	23
	641666	3624.99	115.68	-95.26	110.154	20.42	23
	645666	3684.99	115.77	-95.26	112.46	20.51	23
256QAM	637668	3565.02	113.11	-95.26	60.954	17.85	23
	641666	3624.99	113.14	-95.26	61.376	17.88	23
	645666	3684.99	113.2	-95.26	62.23	17.94	23

Notes:

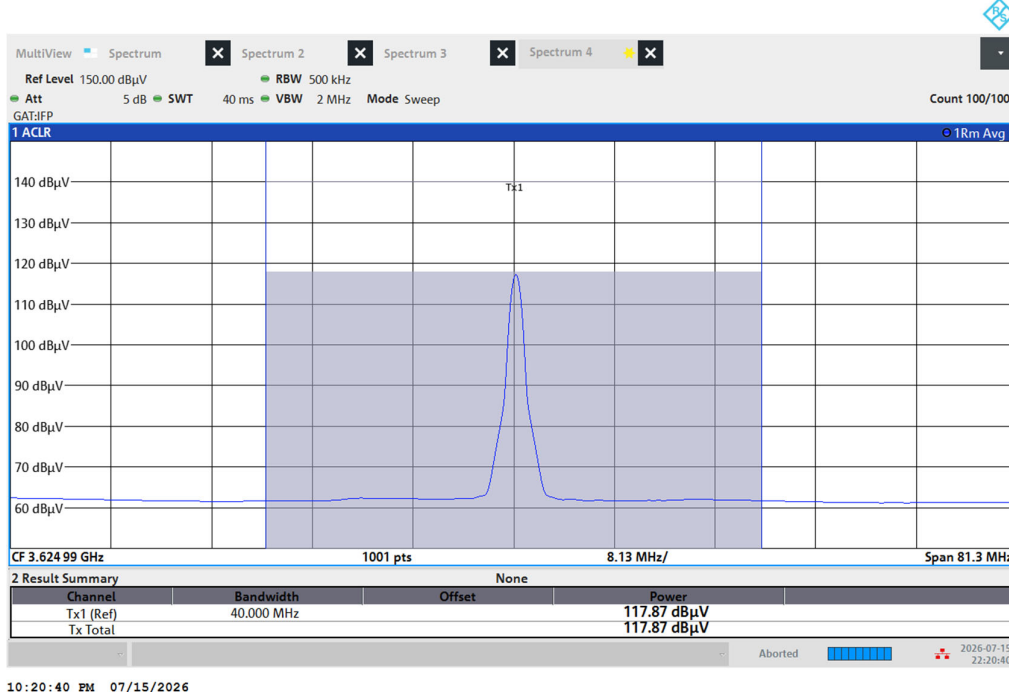
1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	638000	3570	117.46	-95.26	165.959	22.2	23
	641666	3624.99	117.76	-95.26	177.828	22.5	23
	645332	3679.98	117.57	-95.26	170.216	22.31	23
QPSK	638000	3570	117.54	-95.26	169.044	22.28	23
	641666	3624.99	117.87	-95.26	182.39	22.61	23
	645332	3679.98	117.68	-95.26	174.582	22.42	23
16QAM	638000	3570	116.58	-95.26	135.519	21.32	23
	641666	3624.99	116.9	-95.26	145.881	21.64	23
	645332	3679.98	116.72	-95.26	139.959	21.46	23
64QAM	638000	3570	115.6	-95.26	108.143	20.34	23
	641666	3624.99	115.88	-95.26	115.345	20.62	23
	645332	3679.98	115.71	-95.26	110.917	20.45	23
256QAM	638000	3570	113.07	-95.26	60.395	17.81	23
	641666	3624.99	113.34	-95.26	64.269	18.08	23
	645332	3679.98	113.18	-95.26	61.944	17.92	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637168	3557.52	117.59	-95.26	171.002	22.33	23
	641666	3624.99	117.45	-95.26	165.577	22.19	23
	646166	3692.49	117.43	-95.26	164.816	22.17	23
QPSK	637168	3557.52	117.68	-95.26	174.582	22.42	23
	641666	3624.99	117.54	-95.26	169.044	22.28	23
	646166	3692.49	117.52	-95.26	168.267	22.26	23
16QAM	637168	3557.52	116.72	-95.26	139.959	21.46	23
	641666	3624.99	116.58	-95.26	135.519	21.32	23
	646166	3692.49	116.59	-95.26	135.831	21.33	23
64QAM	637168	3557.52	115.74	-95.26	111.686	20.48	23
	641666	3624.99	115.6	-95.26	108.143	20.34	23
	646166	3692.49	115.58	-95.26	107.647	20.32	23
256QAM	637168	3557.52	113.21	-95.26	62.373	17.95	23
	641666	3624.99	113.07	-95.26	60.395	17.81	23
	646166	3692.49	113.01	-95.26	59.566	17.75	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637334	3560.01	117.35	-95.26	161.808	22.09	23
	641666	3624.99	117.46	-95.26	165.959	22.2	23
	646000	3690	117.34	-95.26	161.436	22.08	23
QPSK	637334	3560.01	117.44	-95.26	165.196	22.18	23
	641666	3624.99	117.56	-95.26	169.824	22.3	23
	646000	3690	117.45	-95.26	165.577	22.19	23
16QAM	637334	3560.01	116.49	-95.26	132.739	21.23	23
	641666	3624.99	116.6	-95.26	136.144	21.34	23
	646000	3690	116.52	-95.26	133.66	21.26	23
64QAM	637334	3560.01	115.49	-95.26	105.439	20.23	23
	641666	3624.99	115.62	-95.26	108.643	20.36	23
	646000	3690	115.51	-95.26	105.925	20.25	23
256QAM	637334	3560.01	112.93	-95.26	58.479	17.67	23
	641666	3624.99	113.09	-95.26	60.674	17.83	23
	646000	3690	112.95	-95.26	58.749	17.69	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	637668	3565.02	117.33	-95.26	161.065	22.07	23
	641666	3624.99	117.35	-95.26	161.808	22.09	23
	645666	3684.99	117.53	-95.26	168.655	22.27	23
QPSK	637668	3565.02	117.44	-95.26	165.196	22.18	23
	641666	3624.99	117.45	-95.26	165.577	22.19	23
	645666	3684.99	117.61	-95.26	171.791	22.35	23
16QAM	637668	3565.02	116.51	-95.26	133.352	21.25	23
	641666	3624.99	116.51	-95.26	133.352	21.25	23
	645666	3684.99	116.65	-95.26	137.721	21.39	23
64QAM	637668	3565.02	115.52	-95.26	106.17	20.26	23
	641666	3624.99	115.53	-95.26	106.414	20.27	23
	645666	3684.99	115.65	-95.26	109.396	20.39	23
256QAM	637668	3565.02	112.96	-95.26	58.884	17.7	23
	641666	3624.99	112.96	-95.26	58.884	17.7	23
	645666	3684.99	113.09	-95.26	60.674	17.83	23

Notes:

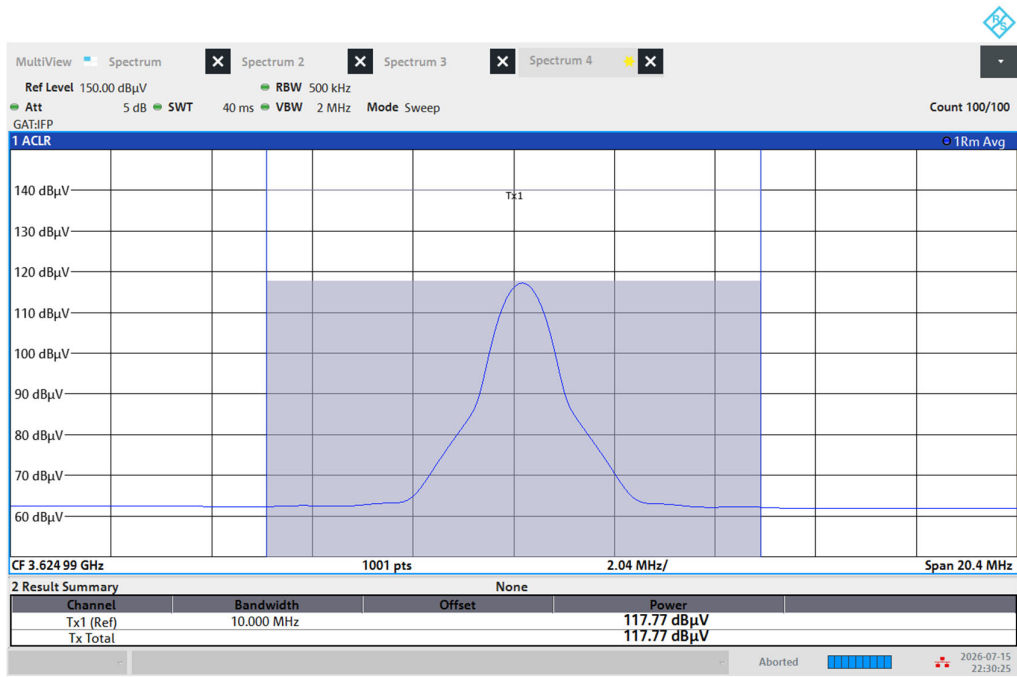
1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

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

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
BPSK	638000	3570	117.49	-95.26	167.109	22.23	23
	641666	3624.99	117.67	-95.26	174.181	22.41	23
	645332	3679.98	117.5	-95.26	167.494	22.24	23
QPSK	638000	3570	117.61	-95.26	171.791	22.35	23
	641666	3624.99	117.77	-95.26	178.238	22.51	23
	645332	3679.98	117.61	-95.26	171.791	22.35	23
16QAM	638000	3570	116.66	-95.26	138.038	21.4	23
	641666	3624.99	116.81	-95.26	142.889	21.55	23
	645332	3679.98	116.65	-95.26	137.721	21.39	23
64QAM	638000	3570	115.64	-95.26	109.144	20.38	23
	641666	3624.99	115.8	-95.26	113.24	20.54	23
	645332	3679.98	115.65	-95.26	109.396	20.39	23
256QAM	638000	3570	113.07	-95.26	60.395	17.81	23
	641666	3624.99	113.23	-95.26	62.661	17.97	23
	645332	3679.98	113.1	-95.26	60.814	17.84	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



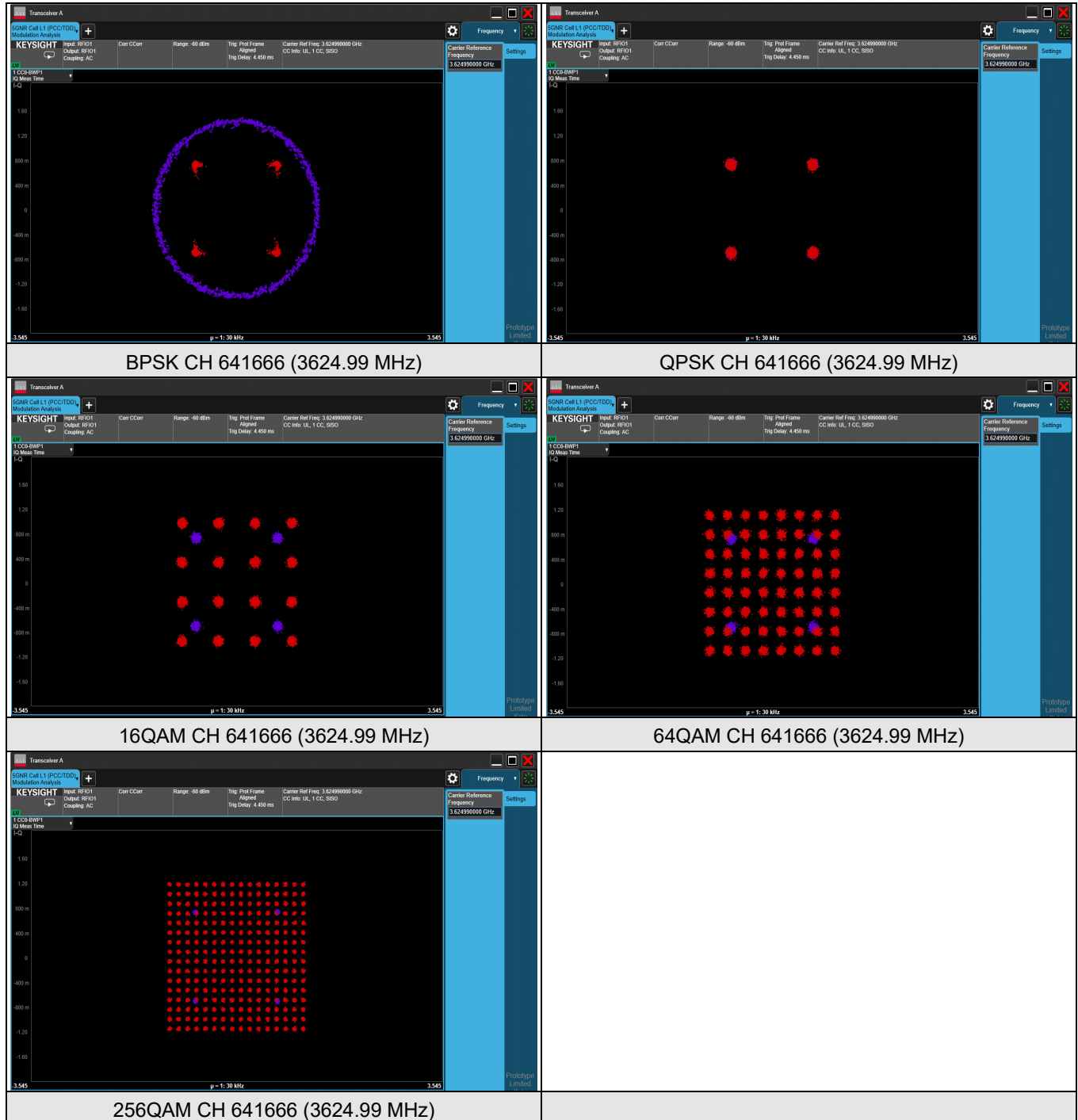
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7.2 Modulation Characteristics

Input Power:	3.85 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	Noah Chang
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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

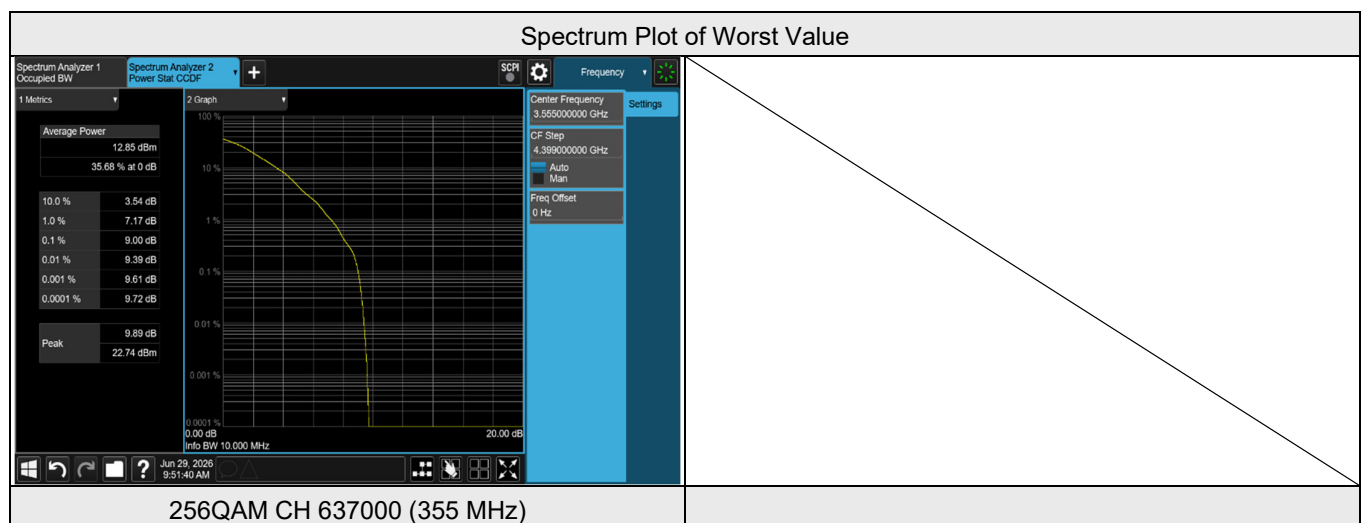
Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 66% RH	Tested By:	Noah Chang
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7.3.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

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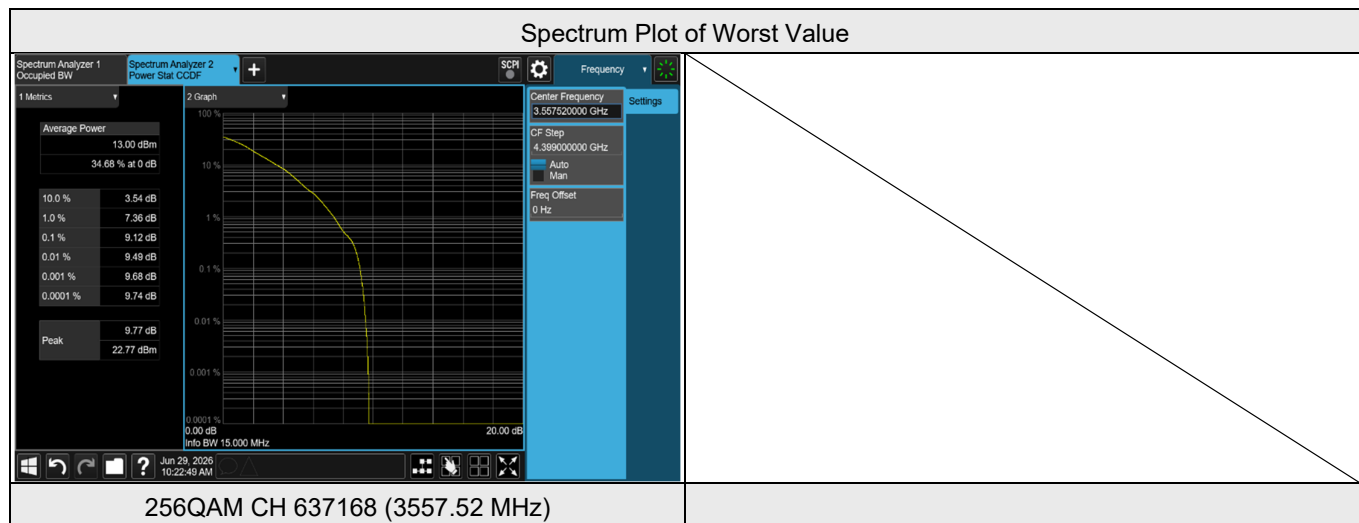
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 10 MHz

NR n48 SCS 30 kHz 10M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	637000	3555	4.92	13	PASS
BPSK	641666	3624.99	4.93	13	PASS
BPSK	646332	3694.98	4.91	13	PASS
QPSK	637000	3555	8.48	13	PASS
QPSK	641666	3624.99	8.59	13	PASS
QPSK	646332	3694.98	8.64	13	PASS
16QAM	637000	3555	8.49	13	PASS
16QAM	641666	3624.99	8.46	13	PASS
16QAM	646332	3694.98	8.63	13	PASS
64QAM	637000	3555	8.24	13	PASS
64QAM	641666	3624.99	8.37	13	PASS
64QAM	646332	3694.98	8.13	13	PASS
256QAM	637000	3555	9.00	13	PASS
256QAM	641666	3624.99	8.84	13	PASS
256QAM	646332	3694.98	8.83	13	PASS



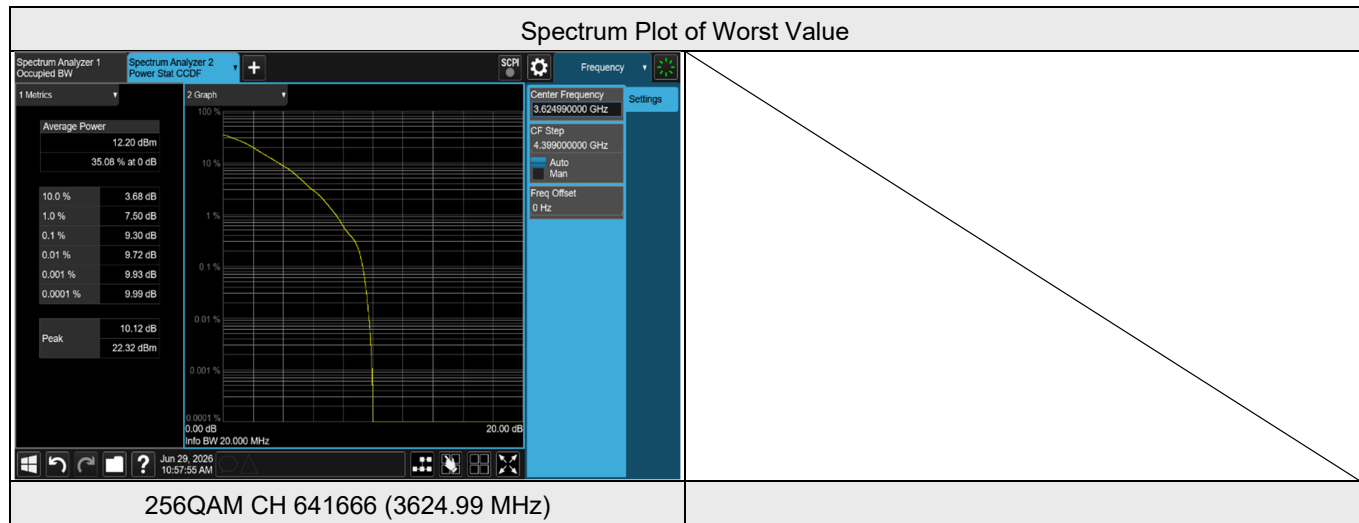
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 15 MHz

NR n48 SCS 30 kHz 15M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	637168	3557.52	4.93	13	PASS
BPSK	641666	3624.99	4.93	13	PASS
BPSK	646166	3692.49	4.93	13	PASS
QPSK	637168	3557.52	8.83	13	PASS
QPSK	641666	3624.99	8.78	13	PASS
QPSK	646166	3692.49	8.79	13	PASS
16QAM	637168	3557.52	8.39	13	PASS
16QAM	641666	3624.99	8.63	13	PASS
16QAM	646166	3692.49	8.34	13	PASS
64QAM	637168	3557.52	8.62	13	PASS
64QAM	641666	3624.99	8.40	13	PASS
64QAM	646166	3692.49	8.38	13	PASS
256QAM	637168	3557.52	9.12	13	PASS
256QAM	641666	3624.99	8.90	13	PASS
256QAM	646166	3692.49	8.89	13	PASS



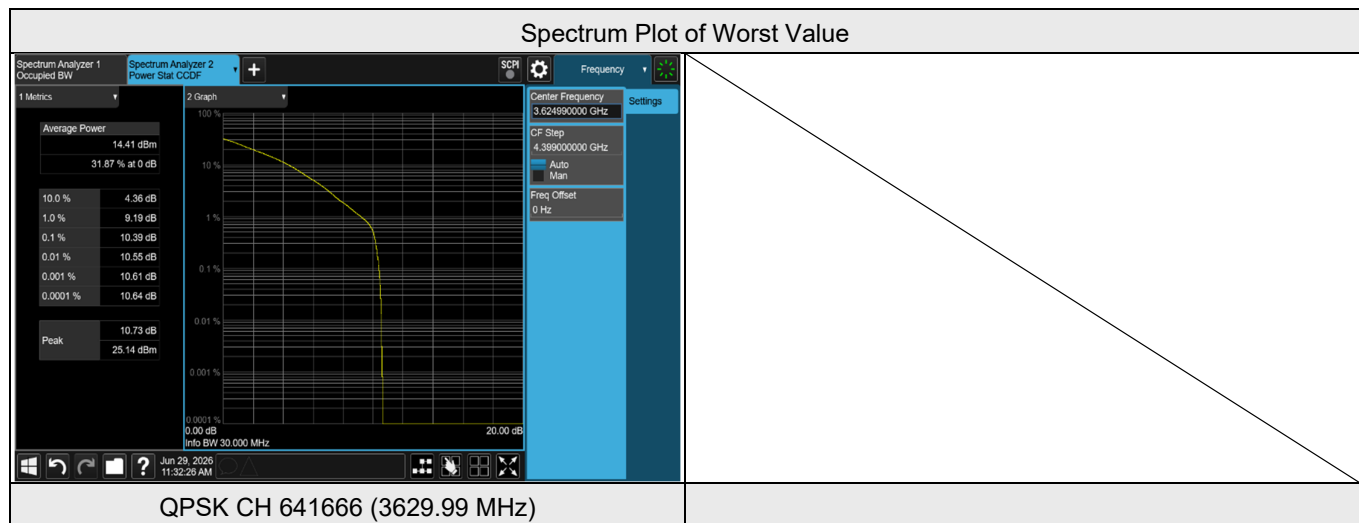
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz

NR n48 SCS 30 kHz 20M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	637334	3560.01	5.37	13	PASS
BPSK	641666	3624.99	5.11	13	PASS
BPSK	646000	3690	5.03	13	PASS
QPSK	637334	3560.01	8.97	13	PASS
QPSK	641666	3624.99	8.82	13	PASS
QPSK	646000	3690	8.57	13	PASS
16QAM	637334	3560.01	8.86	13	PASS
16QAM	641666	3624.99	8.81	13	PASS
16QAM	646000	3690	8.95	13	PASS
64QAM	637334	3560.01	8.39	13	PASS
64QAM	641666	3624.99	8.44	13	PASS
64QAM	646000	3690	8.17	13	PASS
256QAM	637334	3560.01	9.14	13	PASS
256QAM	641666	3624.99	9.30	13	PASS
256QAM	646000	3690	9.08	13	PASS



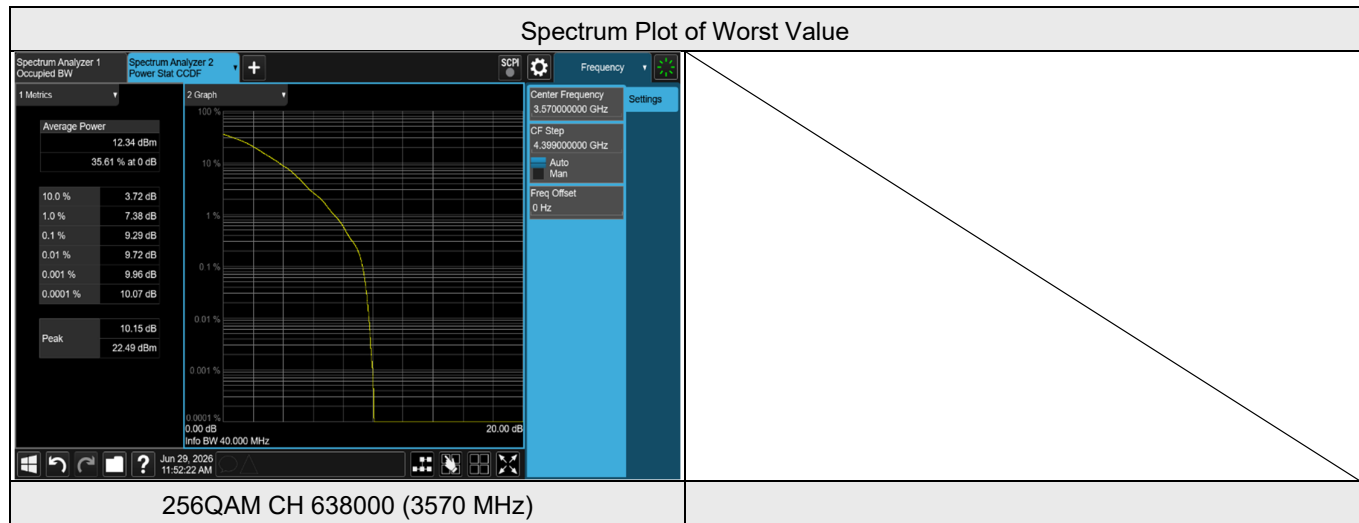
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 30 MHz

NR n48 SCS 30 kHz 30M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	637668	3565.02	6.41	13	PASS
BPSK	641666	3624.99	5.69	13	PASS
BPSK	645666	3684.99	6.13	13	PASS
QPSK	637668	3565.02	10.18	13	PASS
QPSK	641666	3624.99	10.39	13	PASS
QPSK	645666	3684.99	9.30	13	PASS
16QAM	637668	3565.02	9.72	13	PASS
16QAM	641666	3624.99	9.78	13	PASS
16QAM	645666	3684.99	9.10	13	PASS
64QAM	637668	3565.02	9.14	13	PASS
64QAM	641666	3624.99	9.34	13	PASS
64QAM	645666	3684.99	9.47	13	PASS
256QAM	637668	3565.02	10.24	13	PASS
256QAM	641666	3624.99	10.27	13	PASS
256QAM	645666	3684.99	9.77	13	PASS



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

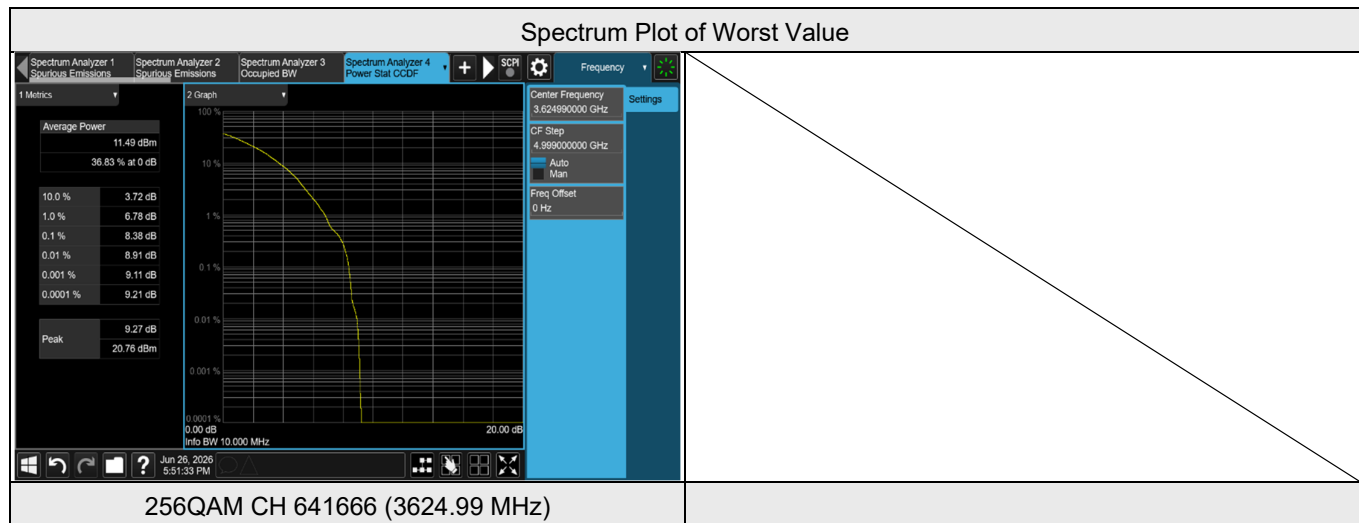
NR n48 SCS 30 kHz 40M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	638000	3570	4.98	13	PASS
BPSK	641666	3624.99	5.03	13	PASS
BPSK	645332	3679.98	4.96	13	PASS
QPSK	638000	3570	9.00	13	PASS
QPSK	641666	3624.99	8.90	13	PASS
QPSK	645332	3679.98	9.17	13	PASS
16QAM	638000	3570	8.97	13	PASS
16QAM	641666	3624.99	8.93	13	PASS
16QAM	645332	3679.98	8.81	13	PASS
64QAM	638000	3570	8.37	13	PASS
64QAM	641666	3624.99	8.54	13	PASS
64QAM	645332	3679.98	8.30	13	PASS
256QAM	638000	3570	9.29	13	PASS
256QAM	641666	3624.99	9.09	13	PASS
256QAM	645332	3679.98	9.07	13	PASS



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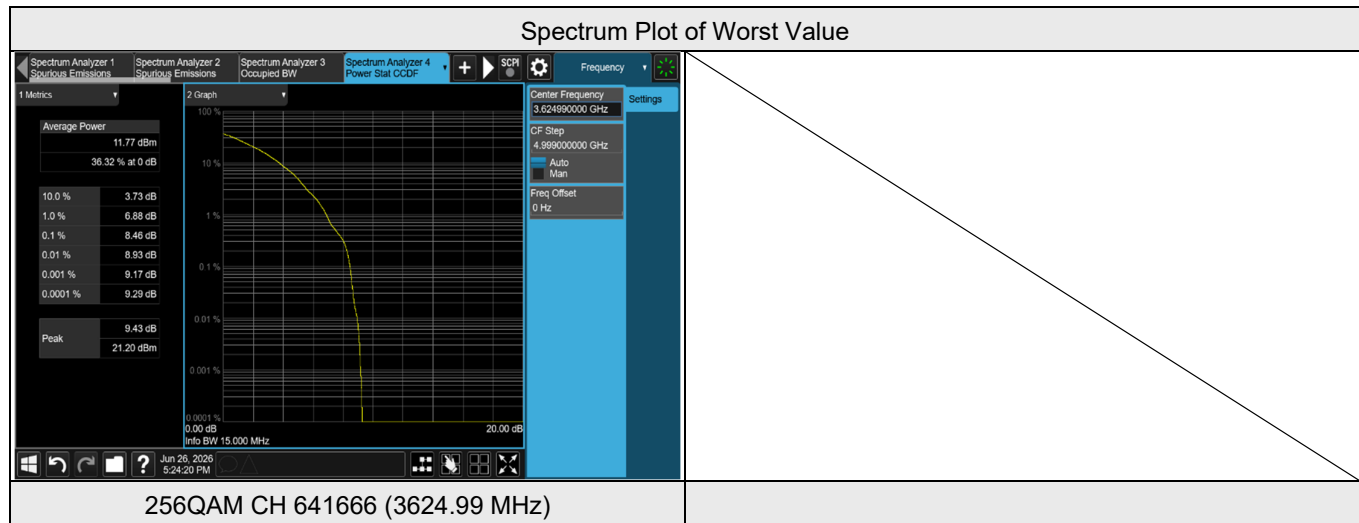
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 10 MHz

NR n48 SCS 30 kHz 10M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	637000	3555	4.90	13	PASS
BPSK	641666	3624.99	4.97	13	PASS
BPSK	646332	3694.98	5.02	13	PASS
QPSK	637000	3555	7.94	13	PASS
QPSK	641666	3624.99	8.03	13	PASS
QPSK	646332	3694.98	7.95	13	PASS
16QAM	637000	3555	8.09	13	PASS
16QAM	641666	3624.99	8.16	13	PASS
16QAM	646332	3694.98	8.22	13	PASS
64QAM	637000	3555	7.92	13	PASS
64QAM	641666	3624.99	8.14	13	PASS
64QAM	646332	3694.98	7.86	13	PASS
256QAM	637000	3555	8.33	13	PASS
256QAM	641666	3624.99	8.38	13	PASS
256QAM	646332	3694.98	8.28	13	PASS



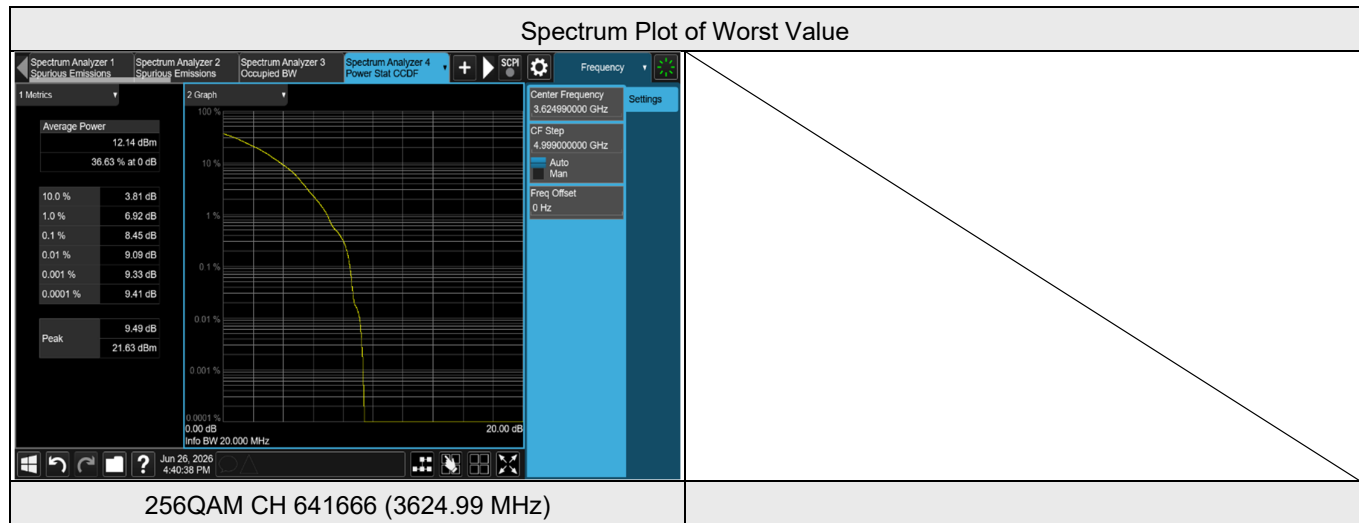
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 15 MHz

NR n48 SCS 30 kHz 15M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	637168	3557.52	4.99	13	PASS
BPSK	641666	3624.99	5.07	13	PASS
BPSK	646166	3692.49	4.97	13	PASS
QPSK	637168	3557.52	8.32	13	PASS
QPSK	641666	3624.99	8.43	13	PASS
QPSK	646166	3692.49	8.24	13	PASS
16QAM	637168	3557.52	8.16	13	PASS
16QAM	641666	3624.99	8.33	13	PASS
16QAM	646166	3692.49	8.15	13	PASS
64QAM	637168	3557.52	7.99	13	PASS
64QAM	641666	3624.99	8.15	13	PASS
64QAM	646166	3692.49	7.86	13	PASS
256QAM	637168	3557.52	8.32	13	PASS
256QAM	641666	3624.99	8.46	13	PASS
256QAM	646166	3692.49	8.09	13	PASS



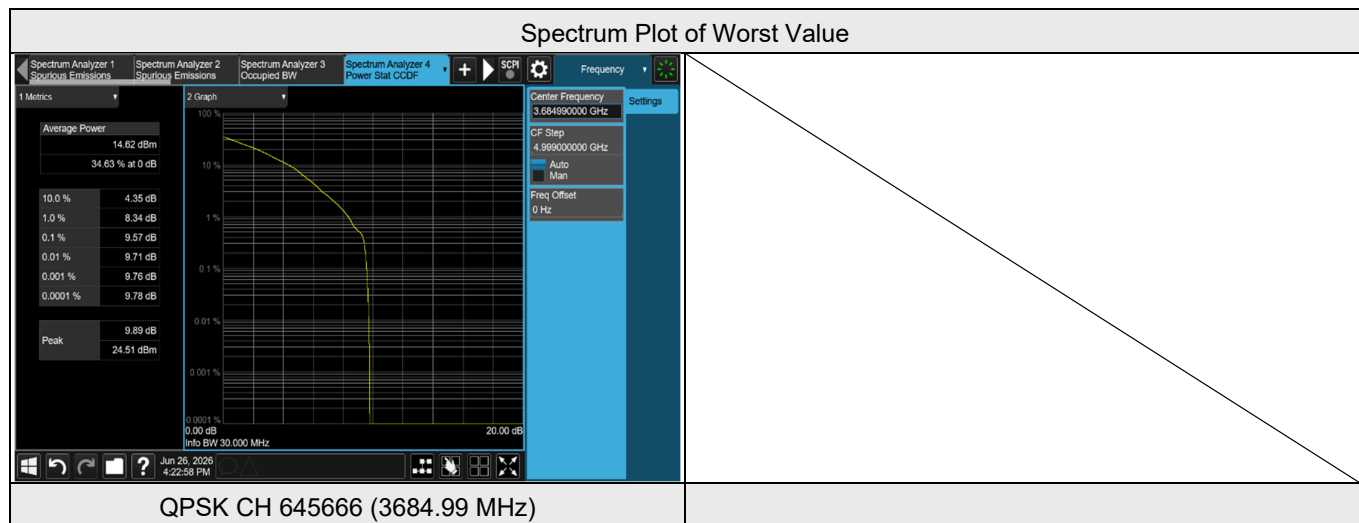
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz

NR n48 SCS 30 kHz 20M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	637334	3560.01	5.26	13	PASS
BPSK	641666	3624.99	5.43	13	PASS
BPSK	646000	3690	5.29	13	PASS
QPSK	637334	3560.01	8.20	13	PASS
QPSK	641666	3624.99	8.34	13	PASS
QPSK	646000	3690	8.11	13	PASS
16QAM	637334	3560.01	8.10	13	PASS
16QAM	641666	3624.99	8.35	13	PASS
16QAM	646000	3690	8.28	13	PASS
64QAM	637334	3560.01	8.05	13	PASS
64QAM	641666	3624.99	8.26	13	PASS
64QAM	646000	3690	8.05	13	PASS
256QAM	637334	3560.01	8.44	13	PASS
256QAM	641666	3624.99	8.45	13	PASS
256QAM	646000	3690	8.33	13	PASS



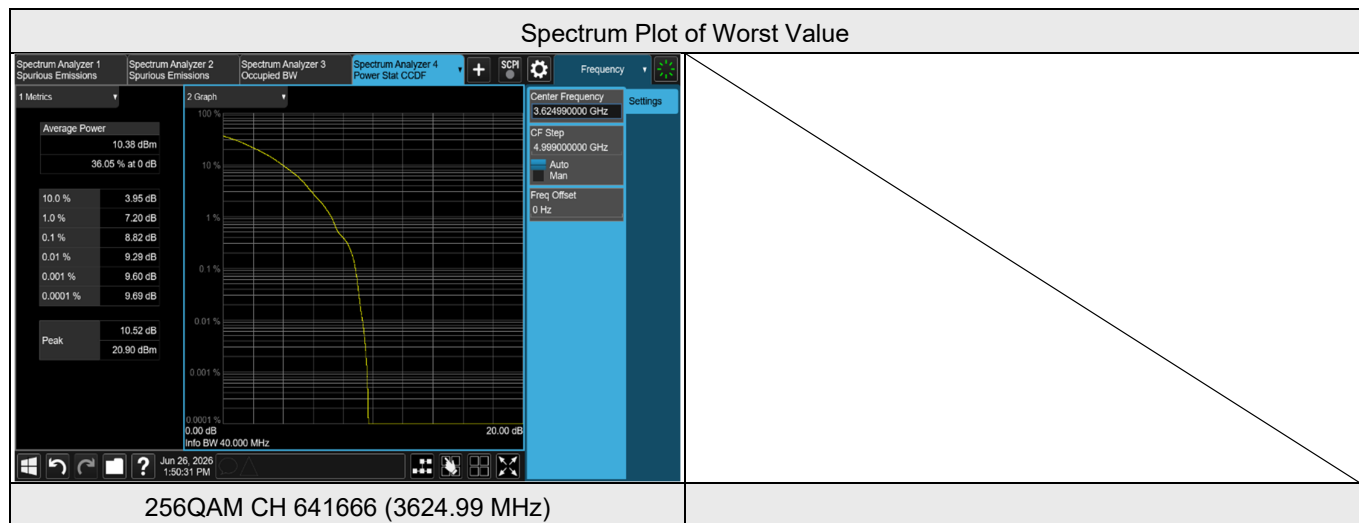
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 30 MHz

NR n48 SCS 30 kHz 30M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	637668	3565.02	5.99	13	PASS
BPSK	641666	3624.99	6.26	13	PASS
BPSK	645666	3684.99	6.21	13	PASS
QPSK	637668	3565.02	9.09	13	PASS
QPSK	641666	3624.99	9.07	13	PASS
QPSK	645666	3684.99	9.57	13	PASS
16QAM	637668	3565.02	8.85	13	PASS
16QAM	641666	3624.99	9.33	13	PASS
16QAM	645666	3684.99	8.82	13	PASS
64QAM	637668	3565.02	8.64	13	PASS
64QAM	641666	3624.99	8.75	13	PASS
64QAM	645666	3684.99	8.40	13	PASS
256QAM	637668	3565.02	9.20	13	PASS
256QAM	641666	3624.99	9.22	13	PASS
256QAM	645666	3684.99	9.22	13	PASS



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

NR n48 SCS 30 kHz 40M					
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
BPSK	638000	3570	4.91	13	PASS
BPSK	641666	3624.99	5.34	13	PASS
BPSK	645332	3679.98	5.04	13	PASS
QPSK	638000	3570	8.03	13	PASS
QPSK	641666	3624.99	8.47	13	PASS
QPSK	645332	3679.98	8.55	13	PASS
16QAM	638000	3570	8.25	13	PASS
16QAM	641666	3624.99	8.46	13	PASS
16QAM	645332	3679.98	8.63	13	PASS
64QAM	638000	3570	8.01	13	PASS
64QAM	641666	3624.99	8.20	13	PASS
64QAM	645332	3679.98	8.01	13	PASS
256QAM	638000	3570	8.41	13	PASS
256QAM	641666	3624.99	8.82	13	PASS
256QAM	645332	3679.98	8.43	13	PASS



7.4 Bandwidth

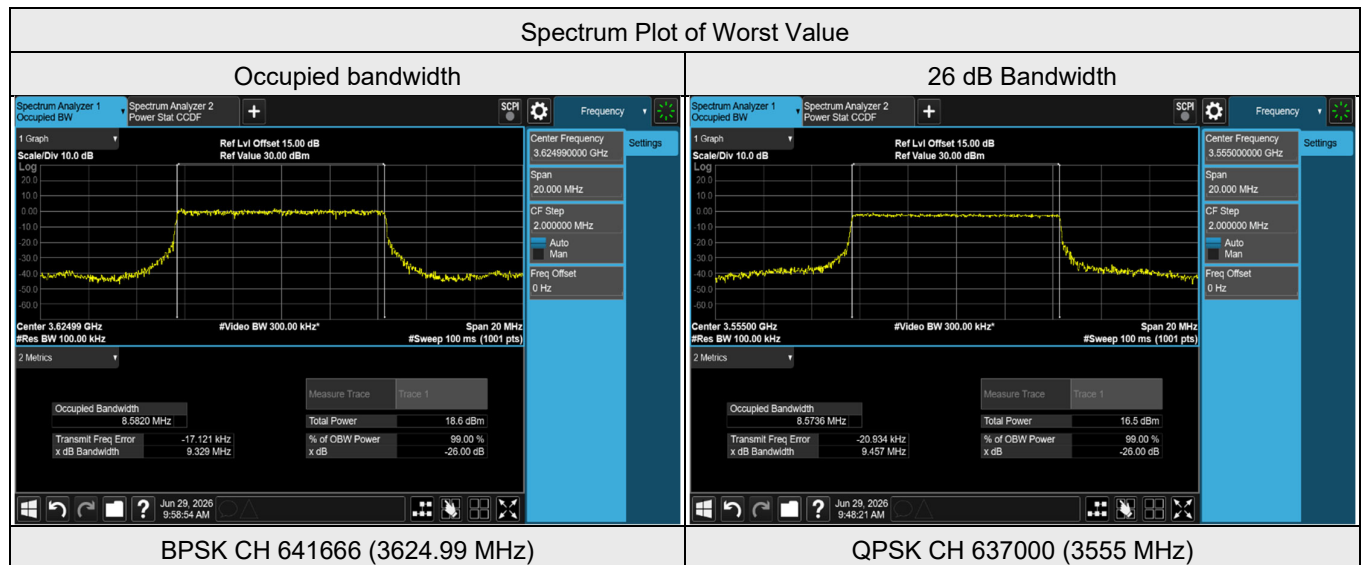
Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 66% RH	Tested By:	Noah Chang
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7.4.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

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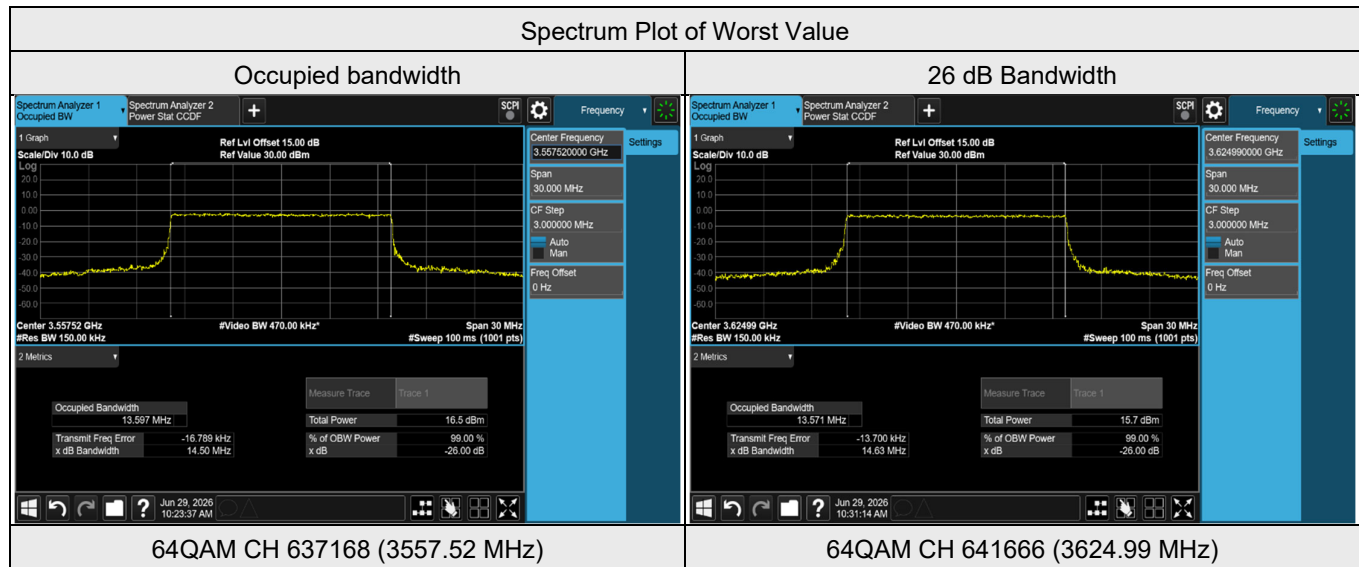
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637000	3555	8.5596	9.303
BPSK	641666	3624.99	8.5820	9.329
BPSK	646332	3694.98	8.5655	9.134
QPSK	637000	3555	8.5736	9.457
QPSK	641666	3624.99	8.5749	9.401
QPSK	646332	3694.98	8.5697	9.385
16QAM	637000	3555	8.5734	9.346
16QAM	641666	3624.99	8.5774	9.384
16QAM	646332	3694.98	8.5749	9.386
64QAM	637000	3555	8.5700	9.236
64QAM	641666	3624.99	8.5620	9.133
64QAM	646332	3694.98	8.5659	9.209
256QAM	637000	3555	8.5651	9.215
256QAM	641666	3624.99	8.5482	9.183
256QAM	646332	3694.98	8.5652	9.222



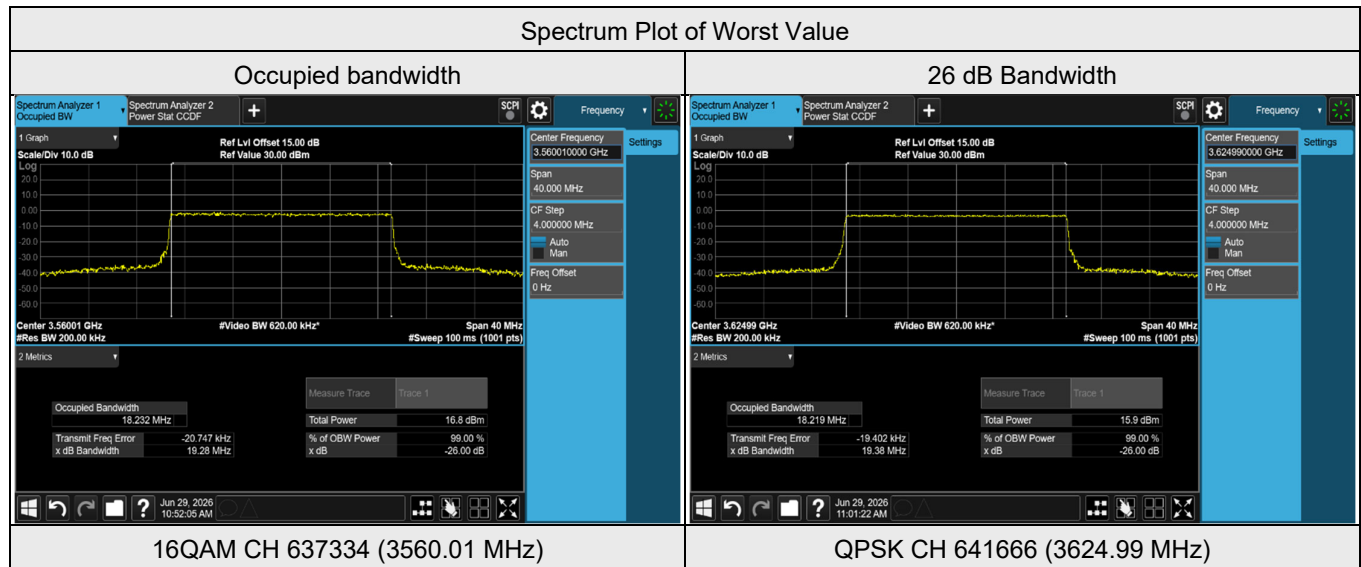
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637168	3557.52	12.883	13.58
BPSK	641666	3624.99	12.875	13.56
BPSK	646166	3692.49	12.895	13.59
QPSK	637168	3557.52	13.574	14.53
QPSK	641666	3624.99	13.574	14.50
QPSK	646166	3692.49	13.575	14.54
16QAM	637168	3557.52	13.588	14.51
16QAM	641666	3624.99	13.594	14.35
16QAM	646166	3692.49	13.590	14.45
64QAM	637168	3557.52	13.597	14.50
64QAM	641666	3624.99	13.571	14.63
64QAM	646166	3692.49	13.587	14.50
256QAM	637168	3557.52	13.574	14.43
256QAM	641666	3624.99	13.572	14.48
256QAM	646166	3692.49	13.577	14.38



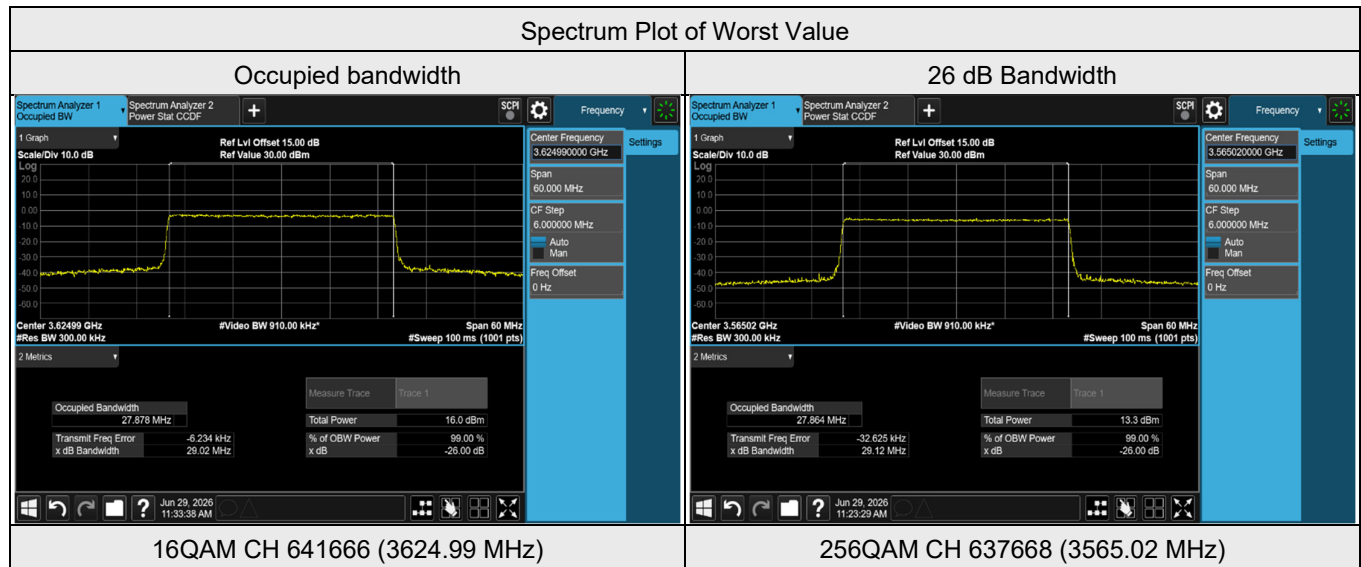
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637334	3560.01	17.869	18.80
BPSK	641666	3624.99	17.850	18.74
BPSK	646000	3690	17.870	18.67
QPSK	637334	3560.01	18.230	19.28
QPSK	641666	3624.99	18.219	19.38
QPSK	646000	3690	18.215	19.34
16QAM	637334	3560.01	18.232	19.28
16QAM	641666	3624.99	18.220	19.02
16QAM	646000	3690	18.226	19.29
64QAM	637334	3560.01	18.208	19.10
64QAM	641666	3624.99	18.204	19.15
64QAM	646000	3690	18.213	19.26
256QAM	637334	3560.01	18.208	19.14
256QAM	641666	3624.99	18.204	18.99
256QAM	646000	3690	18.186	19.21



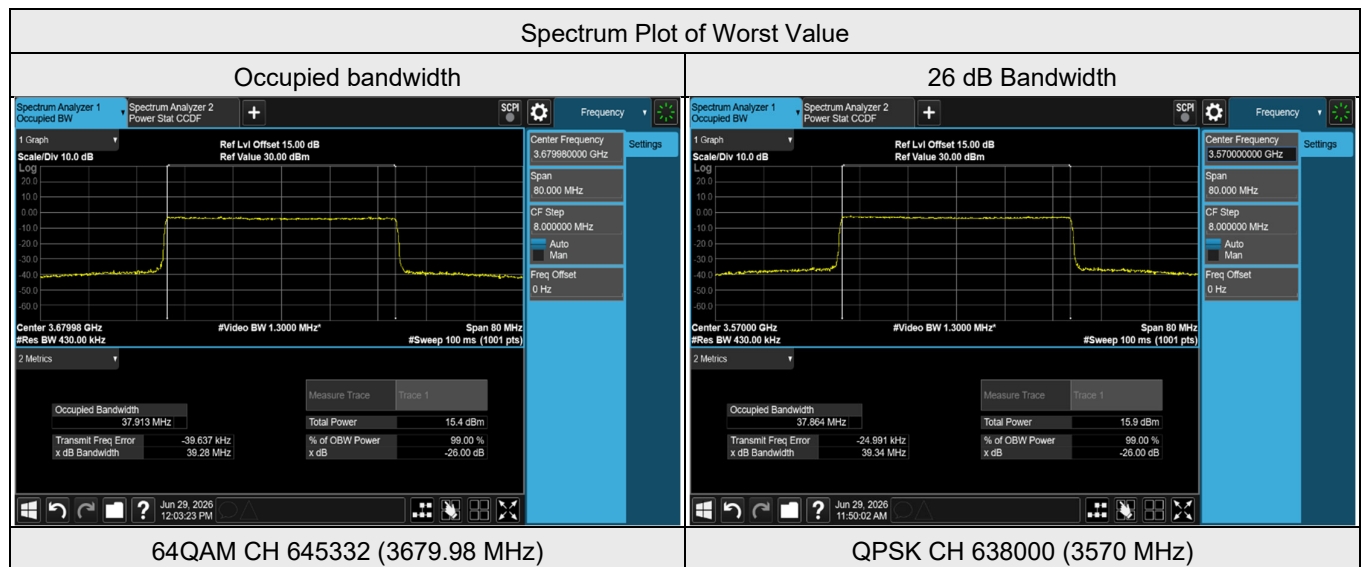
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637668	3565.02	26.826	27.82
BPSK	641666	3624.99	26.810	27.97
BPSK	645666	3684.99	26.839	27.89
QPSK	637668	3565.02	27.863	29.01
QPSK	641666	3624.99	27.850	28.95
QPSK	645666	3684.99	27.857	29.00
16QAM	637668	3565.02	27.869	28.96
16QAM	641666	3624.99	27.878	29.02
16QAM	645666	3684.99	27.873	28.94
64QAM	637668	3565.02	27.864	28.99
64QAM	641666	3624.99	27.858	28.99
64QAM	645666	3684.99	27.863	28.91
256QAM	637668	3565.02	27.864	29.12
256QAM	641666	3624.99	27.857	28.92
256QAM	645666	3684.99	27.867	28.90



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

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	638000	3570	35.755	37.12
BPSK	641666	3624.99	35.739	37.19
BPSK	645332	3679.98	35.749	37.15
QPSK	638000	3570	37.864	39.34
QPSK	641666	3624.99	37.872	39.31
QPSK	645332	3679.98	37.871	39.33
16QAM	638000	3570	37.876	39.21
16QAM	641666	3624.99	37.864	39.31
16QAM	645332	3679.98	37.852	39.26
64QAM	638000	3570	37.905	39.29
64QAM	641666	3624.99	37.874	39.33
64QAM	645332	3679.98	37.913	39.28
256QAM	638000	3570	37.876	39.40
256QAM	641666	3624.99	37.853	39.27
256QAM	645332	3679.98	37.879	39.28



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

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	637000	3555	8.5789	9.423
BPSK	641666	3624.99	8.5702	9.433
BPSK	646332	3694.98	8.5852	9.442
QPSK	637000	3555	8.5874	9.747
QPSK	641666	3624.99	8.5846	9.906
QPSK	646332	3694.98	8.5807	9.782
16QAM	637000	3555	8.5842	9.398
16QAM	641666	3624.99	8.5776	9.380
16QAM	646332	3694.98	8.5773	9.418
64QAM	637000	3555	8.5756	9.440
64QAM	641666	3624.99	8.5712	9.333
64QAM	646332	3694.98	8.5823	9.411
256QAM	637000	3555	8.5859	9.383
256QAM	641666	3624.99	8.5786	9.328
256QAM	646332	3694.98	8.5754	9.429

