TEST REPORT

APPLICANT	:	Horizon Powered USA Inc.
PRODUCT NAME	:	5MF500
MODEL NAME	:	MH500C
BRAND NAME	:	Horizon
FCC ID	:	2BE94MH500C
STANDARD(S)	:	47 CFR Part 2 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27 47 CFR Part 96
RECEIPT DATE	:	2024-08-23
TEST DATE	:	2024-10-01 to 2024-11-05
ISSUE DATE	:	2024-11-26

Edited by: Gan Jing (Rapporteur)

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DIRECTORY

Change History		
Version	Date	Reason for change
1.0	2024-11-08	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Horizon Powered USA Inc.
Applicant Address:	8350 NW 52nd Terrace, Suite 301 Miami, Florida 33166 United States
Manufacturer:	Horizon Powered USA Inc.
Manufacturer Address:	8350 NW 52nd Terrace, Suite 301 Miami, Florida 33166 United States

1.2. Equipment Under Test (EUT) Description

Product Name:	5MF500	
Hardware Version:	A1	
Software Version:	1.10.20	
Sample No.:	1#, 5#	
Single Band:	n2, n5, n7, n12, n13, n14, n25, n26, n29(only RX), n30, n38, n41, n48, n66, n70, n71, n77, n78	
ENDC Band:	n2, n5, n7, n12, n14, n25, n30, n38, n41, n48, n66, n71, n77, n78	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
Power Class:	PC2:	n38, n41, n77, n78
	PC3:	n2, n5, n7, n12, n13, n14, n25, n26, n38, n41, n48, n66, n70, n71, n77, n78
Frequency Range:	n2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	n5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n7	Tx: 2500MHz-2570MHz
		Rx: 2620MHz-2690MHz
	n12	Tx: 699MHz-716MHz
		Rx: 729MHz-746MHz
	n13	Tx: 777MHz-787MHz
		Rx: 746MHz-756MHz
	n14	Tx: 788MHz-798MHz
		Rx: 758MHz-768MHz
	n25	Tx: 1850MHz-1915MHz

		Rx: 1930MHz-1995MHz
	n26 (enabling bands)	Tx: 814MHz-824MHz
		Rx: 859MHz-869MHz
		Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n29(Rx)	Rx: 717MHz-728MHz
	n30	Tx: 2305MHz-2315MHz
		Rx: 2350MHz-2360MHz
	n38	Tx: 2570MHz-2620MHz
		Rx: 2570MHz-2620MHz
	n41	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz
	n48	Tx:3550 MHz–3700 MHz
		Rx:3550 MHz–3700 MHz
	n66	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz
	n70	Tx: 1695MHz-1710MHz
		Rx: 1995MHz-2020MHz
	n71	Tx: 663MHz-698MHz
		Rx: 617MHz-652MHz
	n77	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3980MHz
		Rx: 3700MHz-3980MHz
	n78	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3800MHz
		Rx: 3700MHz-3800MHz
Channel Bandwidth	n2	5MHz, 10MHz, 15MHz, 20MHz
	n5	5MHz, 10MHz, 15MHz, 20MHz
	n7	5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz
	n12	5MHz, 10MHz, 15MHz
	n13	5MHz, 10MHz
	n14	5MHz, 10MHz
	n25	5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz
	n26	5MHz, 10MHz, 15MHz, 20MHz
	n30	5MHz, 10MHz
	n38	20MHz, 30MHz, 40MHz
	n41	20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz

	n48	10MHz, 20MHz, 30MHz, 40MHz
	n66	5MHz, 10MHz, 15MHz, 20MHz
	n70	5MHz, 10MHz, 15MHz
	n71	5MHz, 10MHz, 15MHz, 20MHz
	n77	10MHz, 15MHz , 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
	n78	10MHz, 15MHz , 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
Antenna Type:	Fixed FPC Internal	
Antenna Gain:	n2	ANT0: 3.30dBi; ANT1: 3.10dBi
	n5	ANT0: -3.10dBi; ANT1: -1.50dBi
	n7	ANT0: 2.10dBi; ANT1: 1.10dBi
	n12	ANT0: -2.1dBi; ANT1: -0.90dBi
	n13	ANT0: -2.10dBi; ANT1: -0.90dBi
	n14	ANT0: -2.10dBi; ANT1: -0.90dBi
	n25	ANT0: -3.10dBi; ANT1: -1.50dBi
	n26	ANT0: -3.10dBi; ANT1: -1.50dBi
	n30	ANT0: 1.80dBi; ANT1: -1.40dBi
	n38	ANT0: 2.10dBi; ANT1: 1.10dBi
	n41	ANT0: 2.10dBi; ANT1: 1.10dBi
	n48	ANT0: 1.20dBi; ANT1: 1.50dBi
	n66	ANT0: 1.70dBi; ANT1: -1.80dBi
	n70	ANT0: 1.70dBi; ANT1: -1.80dBi
	n71	ANT0: -3.10dBi; ANT1: -1.10dBi
	n77	ANT0: 0.90dBi; ANT1: 0.80dBi
	n78	ANT0: 0.90dBi; ANT1: 0.80dBi
Accessory Information:	**Battery**	
	Brand Name:	Donpguan Lisheng
	Model No.:	BL5060
	Serial No.:	N/A
	Capacity:	5000mA
	Rated Voltage:	3.80V
	Charge Limit:	4.35V
	Manufacturer :	Donpguan Lisheng
Accessory Information:	**AC Adapter**	
	Brand Name:	DONGGUAN GUANGSHU
	Model No.:	P050W3000LU

	Serial No.:	N/A
	Rated Input:	100-240V~50/60HZ, 1A
	Rated Output:	5V⎓3A or 9V⎓2A or 12V⎓1.5A
	Manufacturer :	DONGGUAN GUANGSHU

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 3: The test results of all conducted test items please refer to the module FCC test report (Report No.: 2204RSU037-U6 / 2204RSU037-U7 / 2204RSU037-U8 / 2204RSU037-U9, 2401RSU047-U2, FCC ID: XMR2022RG520NNA), which issued on Aug. 07, 2022 by MRT Technology (Suzhou) Co., Ltd. And test report (Report No.: 2401RSU047-U2, FCC ID: XMR2022RG520NNA), which issued on Mar. 18, 2024 by MRT Technology (Suzhou) Co., Ltd.

This report have updated the output power (only for n30/n48), added the test results for n48, and recorded the results of radiation tests for each band.

1.3. Maximum ERP/EIRP and Emission Designator

EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

ERP (dBm) = EIPR (dBm) - 2.15

n30						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	21.69	23.49	0.223	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
10	PI/2 BPSK	21.71	23.51	0.224	N/A	N/A
	QPSK	21.80	23.60	0.229	N/A	N/A
	16QAM	20.72	22.52	0.179	N/A	N/A
	64QAM	19.08	20.88	0.122	N/A	N/A
	256QAM	16.89	18.69	0.074	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

n48						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	19.49	20.99	0.126	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
20	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	19.72	21.22	0.132	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	19.81	21.31	0.135	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	19.98	21.48	0.141	N/A	N/A
	QPSK	19.97	21.47	0.140	N/A	N/A
	16QAM	19.92	21.42	0.139	N/A	N/A
	64QAM	20.00	21.50	0.141	N/A	N/A
	256QAM	17.81	19.31	0.085	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

Test Band	Channel Bandwidth (MHz)	Modulation	Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP(W)	Limit (dBm)
n2	20	DFT-s OFDM BPSK	23.96	3.3	27.26	0.532	<33.01
n2	15	DFT-s OFDM BPSK	23.91	3.3	27.21	0.526	<33.01
n2	10	DFT-s OFDM BPSK	23.75	3.3	27.05	0.507	<33.01
n2	5	DFT-s OFDM BPSK	23.74	3.3	27.04	0.506	<33.01
n2	20	DFT-s OFDM QPSK	23.99	3.3	27.29	0.536	<33.01
n2	15	DFT-s OFDM QPSK	24.02	3.3	27.32	0.540	<33.01
n2	10	DFT-s OFDM QPSK	23.89	3.3	27.19	0.524	<33.01
n2	5	DFT-s OFDM QPSK	24.03	3.3	27.33	0.541	<33.01
n2	20	DFT-s OFDM 16QAM	23.64	3.3	26.94	0.494	<33.01
n2	15	DFT-s OFDM 16QAM	23.53	3.3	26.83	0.482	<33.01
n2	10	DFT-s OFDM 16QAM	23.19	3.3	26.49	0.446	<33.01
n2	5	DFT-s OFDM 16QAM	23.5	3.3	26.8	0.479	<33.01
n2	20	DFT-s OFDM 64QAM	22.06	3.3	25.36	0.344	<33.01
n2	15	DFT-s OFDM 64QAM	22.04	3.3	25.34	0.342	<33.01
n2	10	DFT-s OFDM 64QAM	22.13	3.3	25.43	0.349	<33.01
n2	5	DFT-s OFDM 64QAM	21.96	3.3	25.26	0.336	<33.01
n2	20	DFT-s OFDM 256QAM	19.88	3.3	23.18	0.208	<33.01
n2	15	DFT-s OFDM 256QAM	19.89	3.3	23.19	0.208	<33.01
n2	10	DFT-s OFDM 256QAM	19.69	3.3	22.99	0.199	<33.01
n2	5	DFT-s OFDM 256QAM	19.67	3.3	22.97	0.198	<33.01
n2	20	CP-OFDM QPSK	22.44	3.3	25.74	0.375	<33.01
n2	15	CP-OFDM QPSK	23.13	3.3	26.43	0.440	<33.01
n2	10	CP-OFDM	23.04	3.3	26.34	0.431	<33.01

		QPSK					
n2	5	CP-OFDM QPSK	23.16	3.3	26.46	0.443	<33.01
n2	20	CP-OFDM 16QAM	22.35	3.3	25.65	0.367	<33.01
n2	15	CP-OFDM 16QAM	22.4	3.3	25.7	0.372	<33.01
n2	10	CP-OFDM 16QAM	22.54	3.3	25.84	0.384	<33.01
n2	5	CP-OFDM 16QAM	22.4	3.3	25.7	0.372	<33.01
n2	20	CP-OFDM 64QAM	21.02	3.3	24.32	0.270	<33.01
n2	15	CP-OFDM 64QAM	21.03	3.3	24.33	0.271	<33.01
n2	10	CP-OFDM 64QAM	21.08	3.3	24.38	0.274	<33.01
n2	5	CP-OFDM 64QAM	21.02	3.3	24.32	0.270	<33.01
n2	20	CP-OFDM 256QAM	18.14	3.3	21.44	0.139	<33.01
n2	15	CP-OFDM 256QAM	17.9	3.3	21.2	0.132	<33.01
n2	10	CP-OFDM 256QAM	17.64	3.3	20.94	0.124	<33.01
n2	5	CP-OFDM 256QAM	17.87	3.3	21.17	0.131	<33.01
n5	20	DFT-s OFDM BPSK	23.63	-1.5	19.98	0.100	<38.45
n5	15	DFT-s OFDM BPSK	23.66	-1.5	20.01	0.100	<38.45
n5	10	DFT-s OFDM BPSK	23.47	-1.5	19.82	0.096	<38.45
n5	5	DFT-s OFDM BPSK	23.42	-1.5	19.77	0.095	<38.45
n5	20	DFT-s OFDM QPSK	23.78	-1.5	20.13	0.103	<38.45
n5	15	DFT-s OFDM QPSK	23.82	-1.5	20.17	0.104	<38.45
n5	10	DFT-s OFDM QPSK	23.5	-1.5	19.85	0.097	<38.45
n5	5	DFT-s OFDM QPSK	23.58	-1.5	19.93	0.098	<38.45
n5	20	DFT-s OFDM 16QAM	23.91	-1.5	20.26	0.106	<38.45
n5	15	DFT-s OFDM 16QAM	23.79	-1.5	20.14	0.103	<38.45
n5	10	DFT-s OFDM 16QAM	23.64	-1.5	19.99	0.100	<38.45

n5	5	DFT-s OFDM 16QAM	23.68	-1.5	20.03	0.101	<38.45
n5	20	DFT-s OFDM 64QAM	22.36	-1.5	18.71	0.074	<38.45
n5	15	DFT-s OFDM 64QAM	22.32	-1.5	18.67	0.074	<38.45
n5	10	DFT-s OFDM 64QAM	22.18	-1.5	18.53	0.071	<38.45
n5	5	DFT-s OFDM 64QAM	22.21	-1.5	18.56	0.072	<38.45
n5	20	DFT-s OFDM 256QAM	20.06	-1.5	16.41	0.044	<38.45
n5	15	DFT-s OFDM 256QAM	20.08	-1.5	16.43	0.044	<38.45
n5	10	DFT-s OFDM 256QAM	19.91	-1.5	16.26	0.042	<38.45
n5	5	DFT-s OFDM 256QAM	19.91	-1.5	16.26	0.042	<38.45
n5	20	CP-OFDM QPSK	23.35	-1.5	19.7	0.093	<38.45
n5	15	CP-OFDM QPSK	23.34	-1.5	19.69	0.093	<38.45
n5	10	CP-OFDM QPSK	23.16	-1.5	19.51	0.089	<38.45
n5	5	CP-OFDM QPSK	23.14	-1.5	19.49	0.089	<38.45
n5	20	CP-OFDM 16QAM	22.81	-1.5	19.16	0.082	<38.45
n5	15	CP-OFDM 16QAM	22.7	-1.5	19.05	0.080	<38.45
n5	10	CP-OFDM 16QAM	22.56	-1.5	18.91	0.078	<38.45
n5	5	CP-OFDM 16QAM	22.68	-1.5	19.03	0.080	<38.45
n5	20	CP-OFDM 64QAM	21.16	-1.5	17.51	0.056	<38.45
n5	15	CP-OFDM 64QAM	21.39	-1.5	17.74	0.059	<38.45
n5	10	CP-OFDM 64QAM	21	-1.5	17.35	0.054	<38.45
n5	5	CP-OFDM 64QAM	21.33	-1.5	17.68	0.059	<38.45
n5	20	CP-OFDM 256QAM	18.31	-1.5	14.66	0.029	<38.45
n5	15	CP-OFDM 256QAM	18.1	-1.5	14.45	0.028	<38.45
n5	10	CP-OFDM 256QAM	17.93	-1.5	14.28	0.027	<38.45
n5	5	CP-OFDM	18.05	-1.5	14.4	0.028	<38.45

		256QAM					
n7	40	DFT-s OFDM BPSK	24.34	2.1	26.44	0.441	<33.01
n7	30	DFT-s OFDM BPSK	24.34	2.1	26.44	0.441	<33.01
n7	25	DFT-s OFDM BPSK	24.55	2.1	26.65	0.462	<33.01
n7	20	DFT-s OFDM BPSK	24.49	2.1	26.59	0.456	<33.01
n7	15	DFT-s OFDM BPSK	24.51	2.1	26.61	0.458	<33.01
n7	10	DFT-s OFDM BPSK	24.36	2.1	26.46	0.443	<33.01
n7	5	DFT-s OFDM BPSK	24.31	2.1	26.41	0.438	<33.01
n7	40	DFT-s OFDM QPSK	24.51	2.1	26.61	0.458	<33.01
n7	30	DFT-s OFDM QPSK	24.47	2.1	26.57	0.454	<33.01
n7	25	DFT-s OFDM QPSK	24.69	2.1	26.79	0.478	<33.01
n7	20	DFT-s OFDM QPSK	24.64	2.1	26.74	0.472	<33.01
n7	15	DFT-s OFDM QPSK	24.63	2.1	26.73	0.471	<33.01
n7	10	DFT-s OFDM QPSK	24.55	2.1	26.65	0.462	<33.01
n7	5	DFT-s OFDM QPSK	24.53	2.1	26.63	0.460	<33.01
n7	40	DFT-s OFDM 16QAM	24.65	2.1	26.75	0.473	<33.01
n7	30	DFT-s OFDM 16QAM	24.54	2.1	26.64	0.461	<33.01
n7	25	DFT-s OFDM 16QAM	24.36	2.1	26.46	0.443	<33.01
n7	20	DFT-s OFDM 16QAM	24.7	2.1	26.8	0.479	<33.01
n7	15	DFT-s OFDM 16QAM	24.78	2.1	26.88	0.488	<33.01
n7	10	DFT-s OFDM 16QAM	24.39	2.1	26.49	0.446	<33.01
n7	5	DFT-s OFDM 16QAM	24.33	2.1	26.43	0.440	<33.01
n7	40	DFT-s OFDM 64QAM	23.06	2.1	25.16	0.328	<33.01
n7	30	DFT-s OFDM 64QAM	23.17	2.1	25.27	0.337	<33.01
n7	25	DFT-s OFDM 64QAM	22.9	2.1	25	0.316	<33.01

n7	20	DFT-s OFDM 64QAM	23.25	2.1	25.35	0.343	<33.01
n7	15	DFT-s OFDM 64QAM	23.24	2.1	25.34	0.342	<33.01
n7	10	DFT-s OFDM 64QAM	22.95	2.1	25.05	0.320	<33.01
n7	5	DFT-s OFDM 64QAM	23.08	2.1	25.18	0.330	<33.01
n7	40	DFT-s OFDM 256QAM	21.01	2.1	23.11	0.205	<33.01
n7	30	DFT-s OFDM 256QAM	21.05	2.1	23.15	0.207	<33.01
n7	25	DFT-s OFDM 256QAM	21.09	2.1	23.19	0.208	<33.01
n7	20	DFT-s OFDM 256QAM	21.13	2.1	23.23	0.210	<33.01
n7	15	DFT-s OFDM 256QAM	21.18	2.1	23.28	0.213	<33.01
n7	10	DFT-s OFDM 256QAM	21.04	2.1	23.14	0.206	<33.01
n7	5	DFT-s OFDM 256QAM	20.97	2.1	23.07	0.203	<33.01
n7	40	CP-OFDM QPSK	24	2.1	26.1	0.407	<33.01
n7	30	CP-OFDM QPSK	24.05	2.1	26.15	0.412	<33.01
n7	25	CP-OFDM QPSK	23.95	2.1	26.05	0.403	<33.01
n7	20	CP-OFDM QPSK	24.19	2.1	26.29	0.426	<33.01
n7	15	CP-OFDM QPSK	24.23	2.1	26.33	0.430	<33.01
n7	10	CP-OFDM QPSK	23.78	2.1	25.88	0.387	<33.01
n7	5	CP-OFDM QPSK	23.94	2.1	26.04	0.402	<33.01
n7	40	CP-OFDM 16QAM	23.53	2.1	25.63	0.366	<33.01
n7	30	CP-OFDM 16QAM	23.44	2.1	25.54	0.358	<33.01
n7	25	CP-OFDM 16QAM	23.56	2.1	25.66	0.368	<33.01
n7	20	CP-OFDM 16QAM	23.67	2.1	25.77	0.378	<33.01
n7	15	CP-OFDM 16QAM	23.6	2.1	25.7	0.372	<33.01
n7	10	CP-OFDM 16QAM	23.53	2.1	25.63	0.366	<33.01
n7	5	CP-OFDM	23.54	2.1	25.64	0.366	<33.01

		16QAM					
n7	40	CP-OFDM 64QAM	22.02	2.1	24.12	0.258	<33.01
n7	30	CP-OFDM 64QAM	22.07	2.1	24.17	0.261	<33.01
n7	25	CP-OFDM 64QAM	22.19	2.1	24.29	0.269	<33.01
n7	20	CP-OFDM 64QAM	22.11	2.1	24.21	0.264	<33.01
n7	15	CP-OFDM 64QAM	22.07	2.1	24.17	0.261	<33.01
n7	10	CP-OFDM 64QAM	22.12	2.1	24.22	0.264	<33.01
n7	5	CP-OFDM 64QAM	22.02	2.1	24.12	0.258	<33.01
n7	40	CP-OFDM 256QAM	19	2.1	21.1	0.129	<33.01
n7	30	CP-OFDM 256QAM	19.05	2.1	21.15	0.130	<33.01
n7	25	CP-OFDM 256QAM	19.33	2.1	21.43	0.139	<33.01
n7	20	CP-OFDM 256QAM	19.12	2.1	21.22	0.132	<33.01
n7	15	CP-OFDM 256QAM	19.15	2.1	21.25	0.133	<33.01
n7	10	CP-OFDM 256QAM	18.98	2.1	21.08	0.128	<33.01
n7	5	CP-OFDM 256QAM	19.15	2.1	21.25	0.133	<33.01
n12	15	DFT-s OFDM BPSK	23.4	-0.9	20.35	0.108	<34.77
n12	10	DFT-s OFDM BPSK	23.26	-0.9	20.21	0.105	<34.77
n12	5	DFT-s OFDM BPSK	23.21	-0.9	20.16	0.104	<34.77
n12	15	DFT-s OFDM QPSK	23.54	-0.9	20.49	0.112	<34.77
n12	10	DFT-s OFDM QPSK	23.47	-0.9	20.42	0.110	<34.77
n12	5	DFT-s OFDM QPSK	23.48	-0.9	20.43	0.110	<34.77
n12	15	DFT-s OFDM 16QAM	23.5	-0.9	20.45	0.111	<34.77
n12	10	DFT-s OFDM 16QAM	23.43	-0.9	20.38	0.109	<34.77
n12	5	DFT-s OFDM 16QAM	23.44	-0.9	20.39	0.109	<34.77
n12	15	DFT-s OFDM 64QAM	19.68	-0.9	16.63	0.046	<34.77

n12	10	DFT-s OFDM 64QAM	21.89	-0.9	18.84	0.077	<34.77
n12	5	DFT-s OFDM 64QAM	21.9	-0.9	18.85	0.077	<34.77
n12	15	DFT-s OFDM 256QAM	19.83	-0.9	16.78	0.048	<34.77
n12	10	DFT-s OFDM 256QAM	19.69	-0.9	16.64	0.046	<34.77
n12	5	DFT-s OFDM 256QAM	19.7	-0.9	16.65	0.046	<34.77
n12	15	CP-OFDM QPSK	22.91	-0.9	19.86	0.097	<34.77
n12	10	CP-OFDM QPSK	22.89	-0.9	19.84	0.096	<34.77
n12	5	CP-OFDM QPSK	22.87	-0.9	19.82	0.096	<34.77
n12	15	CP-OFDM 16QAM	22.47	-0.9	19.42	0.087	<34.77
n12	10	CP-OFDM 16QAM	22.4	-0.9	19.35	0.086	<34.77
n12	5	CP-OFDM 16QAM	22.36	-0.9	19.31	0.085	<34.77
n12	15	CP-OFDM 64QAM	20.83	-0.9	17.78	0.060	<34.77
n12	10	CP-OFDM 64QAM	20.95	-0.9	17.9	0.062	<34.77
n12	5	CP-OFDM 64QAM	20.85	-0.9	17.8	0.060	<34.77
n12	15	CP-OFDM 256QAM	17.86	-0.9	14.81	0.030	<34.77
n12	10	CP-OFDM 256QAM	17.68	-0.9	14.63	0.029	<34.77
n12	5	CP-OFDM 256QAM	17.86	-0.9	14.81	0.030	<34.77
n13	10	DFT-s OFDM BPSK	22.56	-0.9	19.51	0.089	<34.77
n13	5	DFT-s OFDM BPSK	22.71	-0.9	19.66	0.092	<34.77
n13	10	DFT-s OFDM QPSK	22.62	-0.9	19.57	0.091	<34.77
n13	5	DFT-s OFDM QPSK	22.69	-0.9	19.64	0.092	<34.77
n13	10	DFT-s OFDM 16QAM	22.76	-0.9	19.71	0.094	<34.77
n13	5	DFT-s OFDM 16QAM	22.75	-0.9	19.7	0.093	<34.77
n13	10	DFT-s OFDM 64QAM	21.39	-0.9	18.34	0.068	<34.77
n13	5	DFT-s OFDM	21.7	-0.9	18.65	0.073	<34.77

		64QAM					
n13	10	DFT-s OFDM 256QAM	19.01	-0.9	15.96	0.039	<34.77
n13	5	DFT-s OFDM 256QAM	19.01	-0.9	15.96	0.039	<34.77
n13	10	CP-OFDM QPSK	22.14	-0.9	19.09	0.081	<34.77
n13	5	CP-OFDM QPSK	22.12	-0.9	19.07	0.081	<34.77
n13	10	CP-OFDM 16QAM	21.62	-0.9	18.57	0.072	<34.77
n13	5	CP-OFDM 16QAM	21.7	-0.9	18.65	0.073	<34.77
n13	10	CP-OFDM 64QAM	20.13	-0.9	17.08	0.051	<34.77
n13	5	CP-OFDM 64QAM	20.2	-0.9	17.15	0.052	<34.77
n13	10	CP-OFDM 256QAM	17.03	-0.9	13.98	0.025	<34.77
n13	5	CP-OFDM 256QAM	17.37	-0.9	14.32	0.027	<34.77
n14	10	DFT-s OFDM BPSK	23.42	-0.9	20.37	0.109	<44.77
n14	5	DFT-s OFDM BPSK	23.44	-0.9	20.39	0.109	<44.77
n14	10	DFT-s OFDM QPSK	23.56	-0.9	20.51	0.112	<44.77
n14	5	DFT-s OFDM QPSK	23.55	-0.9	20.5	0.112	<44.77
n14	10	DFT-s OFDM 16QAM	23.43	-0.9	20.38	0.109	<44.77
n14	5	DFT-s OFDM 16QAM	23.66	-0.9	20.61	0.115	<44.77
n14	10	DFT-s OFDM 64QAM	22.11	-0.9	19.06	0.081	<44.77
n14	5	DFT-s OFDM 64QAM	22.14	-0.9	19.09	0.081	<44.77
n14	10	DFT-s OFDM 256QAM	19.83	-0.9	16.78	0.048	<44.77
n14	5	DFT-s OFDM 256QAM	19.88	-0.9	16.83	0.048	<44.77
n14	10	CP-OFDM QPSK	22.84	-0.9	19.79	0.095	<44.77
n14	5	CP-OFDM QPSK	23.16	-0.9	20.11	0.103	<44.77
n14	10	CP-OFDM 16QAM	22.54	-0.9	19.49	0.089	<44.77
n14	5	CP-OFDM 16QAM	22.72	-0.9	19.67	0.093	<44.77

n14	10	CP-OFDM 64QAM	21.03	-0.9	17.98	0.063	<44.77
n14	5	CP-OFDM 64QAM	21.11	-0.9	18.06	0.064	<44.77
n14	10	CP-OFDM 256QAM	17.87	-0.9	14.82	0.030	<44.77
n14	5	CP-OFDM 256QAM	18.17	-0.9	15.12	0.033	<44.77
n25	40	DFT-s OFDM BPSK	23.17	1.7	24.87	0.307	<33.01
n25	30	DFT-s OFDM BPSK	23.21	1.7	24.91	0.310	<33.01
n25	25	DFT-s OFDM BPSK	23.05	1.7	24.75	0.299	<33.01
n25	20	DFT-s OFDM BPSK	23.23	1.7	24.93	0.311	<33.01
n25	15	DFT-s OFDM BPSK	23.26	1.7	24.96	0.313	<33.01
n25	10	DFT-s OFDM BPSK	23.11	1.7	24.81	0.303	<33.01
n25	5	DFT-s OFDM BPSK	23.11	1.7	24.81	0.303	<33.01
n25	40	DFT-s OFDM QPSK	23.18	1.7	24.88	0.308	<33.01
n25	30	DFT-s OFDM QPSK	23.23	1.7	24.93	0.311	<33.01
n25	25	DFT-s OFDM QPSK	23.06	1.7	24.76	0.299	<33.01
n25	20	DFT-s OFDM QPSK	23.15	1.7	24.85	0.305	<33.01
n25	15	DFT-s OFDM QPSK	23.25	1.7	24.95	0.313	<33.01
n25	10	DFT-s OFDM QPSK	23.05	1.7	24.75	0.299	<33.01
n25	5	DFT-s OFDM QPSK	23.06	1.7	24.76	0.299	<33.01
n25	40	DFT-s OFDM 16QAM	22.62	1.7	24.32	0.270	<33.01
n25	30	DFT-s OFDM 16QAM	22.65	1.7	24.35	0.272	<33.01
n25	25	DFT-s OFDM 16QAM	22.47	1.7	24.17	0.261	<33.01
n25	20	DFT-s OFDM 16QAM	22.72	1.7	24.42	0.277	<33.01
n25	15	DFT-s OFDM 16QAM	22.75	1.7	24.45	0.279	<33.01
n25	10	DFT-s OFDM 16QAM	22.54	1.7	24.24	0.265	<33.01
n25	5	DFT-s OFDM	22.58	1.7	24.28	0.268	<33.01

		16QAM					
n25	40	DFT-s OFDM 64QAM	21.28	1.7	22.98	0.199	<33.01
n25	30	DFT-s OFDM 64QAM	21.2	1.7	22.9	0.195	<33.01
n25	25	DFT-s OFDM 64QAM	21.19	1.7	22.89	0.195	<33.01
n25	20	DFT-s OFDM 64QAM	21.47	1.7	23.17	0.207	<33.01
n25	15	DFT-s OFDM 64QAM	21.23	1.7	22.93	0.196	<33.01
n25	10	DFT-s OFDM 64QAM	21.34	1.7	23.04	0.201	<33.01
n25	5	DFT-s OFDM 64QAM	21.41	1.7	23.11	0.205	<33.01
n25	40	DFT-s OFDM 256QAM	19.24	1.7	20.94	0.124	<33.01
n25	30	DFT-s OFDM 256QAM	19.22	1.7	20.92	0.124	<33.01
n25	25	DFT-s OFDM 256QAM	18.99	1.7	20.69	0.117	<33.01
n25	20	DFT-s OFDM 256QAM	19.18	1.7	20.88	0.122	<33.01
n25	15	DFT-s OFDM 256QAM	19.17	1.7	20.87	0.122	<33.01
n25	10	DFT-s OFDM 256QAM	19.07	1.7	20.77	0.119	<33.01
n25	5	DFT-s OFDM 256QAM	19.07	1.7	20.77	0.119	<33.01
n25	40	CP-OFDM QPSK	22.17	1.7	23.87	0.244	<33.01
n25	30	CP-OFDM QPSK	22.12	1.7	23.82	0.241	<33.01
n25	25	CP-OFDM QPSK	21.97	1.7	23.67	0.233	<33.01
n25	20	CP-OFDM QPSK	22.19	1.7	23.89	0.245	<33.01
n25	15	CP-OFDM QPSK	22.16	1.7	23.86	0.243	<33.01
n25	10	CP-OFDM QPSK	22.08	1.7	23.78	0.239	<33.01
n25	5	CP-OFDM QPSK	22.09	1.7	23.79	0.239	<33.01
n25	40	CP-OFDM 16QAM	21.65	1.7	23.35	0.216	<33.01
n25	30	CP-OFDM 16QAM	21.66	1.7	23.36	0.217	<33.01
n25	25	CP-OFDM 16QAM	21.65	1.7	23.35	0.216	<33.01

n25	20	CP-OFDM 16QAM	21.92	1.7	23.62	0.230	<33.01
n25	15	CP-OFDM 16QAM	21.84	1.7	23.54	0.226	<33.01
n25	10	CP-OFDM 16QAM	21.55	1.7	23.25	0.211	<33.01
n25	5	CP-OFDM 16QAM	21.65	1.7	23.35	0.216	<33.01
n25	40	CP-OFDM 64QAM	20.19	1.7	21.89	0.155	<33.01
n25	30	CP-OFDM 64QAM	20.21	1.7	21.91	0.155	<33.01
n25	25	CP-OFDM 64QAM	20.03	1.7	21.73	0.149	<33.01
n25	20	CP-OFDM 64QAM	20.24	1.7	21.94	0.156	<33.01
n25	15	CP-OFDM 64QAM	20.33	1.7	22.03	0.160	<33.01
n25	10	CP-OFDM 64QAM	20.15	1.7	21.85	0.153	<33.01
n25	5	CP-OFDM 64QAM	20.16	1.7	21.86	0.153	<33.01
n25	40	CP-OFDM 256QAM	17.39	1.7	19.09	0.081	<33.01
n25	30	CP-OFDM 256QAM	17.13	1.7	18.83	0.076	<33.01
n25	25	CP-OFDM 256QAM	17.28	1.7	18.98	0.079	<33.01
n25	20	CP-OFDM 256QAM	17.26	1.7	18.96	0.079	<33.01
n25	15	CP-OFDM 256QAM	17.03	1.7	18.73	0.075	<33.01
n25	10	CP-OFDM 256QAM	17.08	1.7	18.78	0.076	<33.01
n25	5	CP-OFDM 256QAM	17.28	1.7	18.98	0.079	<33.01
n26	20	DFT-s OFDM BPSK	23.13	-1.5	19.48	0.089	<100
n26	15	DFT-s OFDM BPSK	23.05	-1.5	19.4	0.087	<100
n26	10	DFT-s OFDM BPSK	22.96	-1.5	19.31	0.085	<100
n26	5	DFT-s OFDM BPSK	23.02	-1.5	19.37	0.086	<100
n26	20	DFT-s OFDM QPSK	23.15	-1.5	19.5	0.089	<100
n26	15	DFT-s OFDM QPSK	23.02	-1.5	19.37	0.086	<100
n26	10	DFT-s OFDM	22.92	-1.5	19.27	0.085	<100

		QPSK					
n26	5	DFT-s OFDM QPSK	23.09	-1.5	19.44	0.088	<100
n26	20	DFT-s OFDM 16QAM	22.61	-1.5	18.96	0.079	<100
n26	15	DFT-s OFDM 16QAM	22.56	-1.5	18.91	0.078	<100
n26	10	DFT-s OFDM 16QAM	22.32	-1.5	18.67	0.074	<100
n26	5	DFT-s OFDM 16QAM	22.54	-1.5	18.89	0.077	<100
n26	20	DFT-s OFDM 64QAM	21.33	-1.5	17.68	0.059	<100
n26	15	DFT-s OFDM 64QAM	21.02	-1.5	17.37	0.055	<100
n26	10	DFT-s OFDM 64QAM	21.18	-1.5	17.53	0.057	<100
n26	5	DFT-s OFDM 64QAM	21.03	-1.5	17.38	0.055	<100
n26	20	DFT-s OFDM 256QAM	19.2	-1.5	15.55	0.036	<100
n26	15	DFT-s OFDM 256QAM	18.97	-1.5	15.32	0.034	<100
n26	10	DFT-s OFDM 256QAM	18.83	-1.5	15.18	0.033	<100
n26	5	DFT-s OFDM 256QAM	18.93	-1.5	15.28	0.034	<100
n26	20	CP-OFDM QPSK	22.15	-1.5	18.5	0.071	<100
n26	15	CP-OFDM QPSK	22.03	-1.5	18.38	0.069	<100
n26	10	CP-OFDM QPSK	21.95	-1.5	18.3	0.068	<100
n26	5	CP-OFDM QPSK	21.89	-1.5	18.24	0.067	<100
n26	20	CP-OFDM 16QAM	21.56	-1.5	17.91	0.062	<100
n26	15	CP-OFDM 16QAM	21.7	-1.5	18.05	0.064	<100
n26	10	CP-OFDM 16QAM	21.44	-1.5	17.79	0.060	<100
n26	5	CP-OFDM 16QAM	21.51	-1.5	17.86	0.061	<100
n26	20	CP-OFDM 64QAM	20.2	-1.5	16.55	0.045	<100
n26	15	CP-OFDM 64QAM	20.01	-1.5	16.36	0.043	<100
n26	10	CP-OFDM 64QAM	19.99	-1.5	16.34	0.043	<100

n26	5	CP-OFDM 64QAM	20.02	-1.5	16.37	0.043	<100
n26	20	CP-OFDM 256QAM	17.26	-1.5	13.61	0.023	<100
n26	15	CP-OFDM 256QAM	16.99	-1.5	13.34	0.022	<100
n26	10	CP-OFDM 256QAM	17.05	-1.5	13.4	0.022	<100
n26	5	CP-OFDM 256QAM	16.83	-1.5	13.18	0.021	<100
n38	40	DFT-s OFDM BPSK	26.30	2.1	28.40	0.692	<33.01
n38	30	DFT-s OFDM BPSK	26.22	2.1	28.32	0.679	<33.01
n38	20	DFT-s OFDM BPSK	26.24	2.1	28.34	0.682	<33.01
n38	15	DFT-s OFDM BPSK	26.19	2.1	28.29	0.675	<33.01
n38	10	DFT-s OFDM BPSK	26.05	2.1	28.15	0.653	<33.01
n38	40	DFT-s OFDM QPSK	26.26	2.1	28.36	0.685	<33.01
n38	30	DFT-s OFDM QPSK	26.31	2.1	28.41	0.693	<33.01
n38	20	DFT-s OFDM QPSK	26.23	2.1	28.33	0.681	<33.01
n38	15	DFT-s OFDM QPSK	26.20	2.1	28.3	0.676	<33.01
n38	10	DFT-s OFDM QPSK	26.04	2.1	28.14	0.652	<33.01
n38	40	DFT-s OFDM 16QAM	26.37	2.1	28.47	0.703	<33.01
n38	30	DFT-s OFDM 16QAM	26.30	2.1	28.4	0.692	<33.01

n38	20	DFT-s OFDM 16QAM	26.24	2.1	28.34	0.682	<33.01
n38	15	DFT-s OFDM 16QAM	26.22	2.1	28.32	0.679	<33.01
n38	10	DFT-s OFDM 16QAM	26.03	2.1	28.13	0.650	<33.01
n38	40	DFT-s OFDM 64QAM	24.97	2.1	27.07	0.509	<33.01
n38	30	DFT-s OFDM 64QAM	24.96	2.1	27.06	0.508	<33.01
n38	20	DFT-s OFDM 64QAM	24.75	2.1	26.85	0.484	<33.01
n38	15	DFT-s OFDM 64QAM	24.92	2.1	27.02	0.504	<33.01
n38	10	DFT-s OFDM 64QAM	24.67	2.1	26.77	0.475	<33.01
n38	40	DFT-s OFDM 256QAM	22.87	2.1	24.97	0.314	<33.01
n38	30	DFT-s OFDM 256QAM	22.80	2.1	24.9	0.309	<33.01
n38	20	DFT-s OFDM 256QAM	22.78	2.1	24.88	0.308	<33.01
n38	15	DFT-s OFDM 256QAM	22.80	2.1	24.9	0.309	<33.01
n38	10	DFT-s OFDM 256QAM	22.66	2.1	24.76	0.299	<33.01
n38	40	CP-OFDM QPSK	25.79	2.1	27.89	0.615	<33.01
n38	30	CP-OFDM QPSK	25.76	2.1	27.86	0.611	<33.01
n38	20	CP-OFDM QPSK	25.70	2.1	27.8	0.603	<33.01

n38	15	CP-OFDM QPSK	25.75	2.1	27.85	0.610	<33.01
n38	10	CP-OFDM QPSK	25.59	2.1	27.69	0.587	<33.01
n38	40	CP-OFDM 16QAM	25.29	2.1	27.39	0.548	<33.01
n38	30	CP-OFDM 16QAM	25.21	2.1	27.31	0.538	<33.01
n38	20	CP-OFDM 16QAM	25.28	2.1	27.38	0.547	<33.01
n38	15	CP-OFDM 16QAM	25.16	2.1	27.26	0.532	<33.01
n38	10	CP-OFDM 16QAM	24.98	2.1	27.08	0.511	<33.01
n38	40	CP-OFDM 64QAM	23.80	2.1	25.9	0.389	<33.01
n38	30	CP-OFDM 64QAM	23.73	2.1	25.83	0.383	<33.01
n38	20	CP-OFDM 64QAM	23.78	2.1	25.88	0.387	<33.01
n38	15	CP-OFDM 64QAM	23.70	2.1	25.8	0.380	<33.01
n38	10	CP-OFDM 64QAM	23.61	2.1	25.71	0.372	<33.01
n38	40	CP-OFDM 256QAM	21.39	2.1	23.49	0.223	<33.01
n38	30	CP-OFDM 256QAM	21.33	2.1	23.43	0.220	<33.01
n38	20	CP-OFDM 256QAM	21.37	2.1	23.47	0.222	<33.01
n38	15	CP-OFDM 256QAM	21.44	2.1	23.54	0.226	<33.01
n38	10	CP-OFDM 256QAM	21.11	2.1	23.21	0.209	<33.01
n41	100	DFT-s OFDM BPSK	27.36	2.1	29.46	0.883	<33.01
n41	90	DFT-s OFDM BPSK	27.39	2.1	29.49	0.889	<33.01
n41	80	DFT-s OFDM BPSK	27.29	2.1	29.39	0.869	<33.01
n41	70	DFT-s OFDM	27.19	2.1	29.29	0.849	<33.01

		BPSK					
n41	60	DFT-s OFDM BPSK	27.37	2.1	29.47	0.885	<33.01
n41	50	DFT-s OFDM BPSK	27.51	2.1	29.61	0.914	<33.01
n41	40	DFT-s OFDM BPSK	27.74	2.1	29.84	0.964	<33.01
n41	30	DFT-s OFDM BPSK	27.65	2.1	29.75	0.944	<33.01
n41	20	DFT-s OFDM BPSK	27.60	2.1	29.7	0.933	<33.01
n41	100	DFT-s OFDM QPSK	27.49	2.1	29.59	0.910	<33.01
n41	90	DFT-s OFDM QPSK	27.35	2.1	29.45	0.881	<33.01
n41	80	DFT-s OFDM QPSK	27.34	2.1	29.44	0.879	<33.01
n41	70	DFT-s OFDM QPSK	27.20	2.1	29.3	0.851	<33.01
n41	60	DFT-s OFDM QPSK	27.41	2.1	29.51	0.893	<33.01
n41	50	DFT-s OFDM QPSK	27.46	2.1	29.56	0.904	<33.01
n41	40	DFT-s OFDM QPSK	27.83	2.1	29.93	0.984	<33.01
n41	30	DFT-s OFDM QPSK	27.82	2.1	29.92	0.982	<33.01
n41	20	DFT-s OFDM QPSK	27.53	2.1	29.63	0.918	<33.01
n41	100	DFT-s OFDM	26.43	2.1	28.53	0.713	<33.01

		16QAM					
n41	90	DFT-s OFDM 16QAM	26.40	2.1	28.5	0.708	<33.01
n41	80	DFT-s OFDM 16QAM	26.29	2.1	28.39	0.690	<33.01
n41	70	DFT-s OFDM 16QAM	26.24	2.1	28.34	0.682	<33.01
n41	60	DFT-s OFDM 16QAM	26.45	2.1	28.55	0.716	<33.01
n41	50	DFT-s OFDM 16QAM	26.41	2.1	28.51	0.710	<33.01
n41	40	DFT-s OFDM 16QAM	26.71	2.1	28.81	0.760	<33.01
n41	30	DFT-s OFDM 16QAM	26.75	2.1	28.85	0.767	<33.01
n41	20	DFT-s OFDM 16QAM	26.55	2.1	28.65	0.733	<33.01
n41	100	DFT-s OFDM 64QAM	24.98	2.1	27.08	0.511	<33.01
n41	90	DFT-s OFDM 64QAM	25.03	2.1	27.13	0.516	<33.01
n41	80	DFT-s OFDM 64QAM	25.04	2.1	27.14	0.518	<33.01
n41	70	DFT-s OFDM 64QAM	25.66	2.1	27.76	0.597	<33.01
n41	60	DFT-s OFDM 64QAM	25.12	2.1	27.22	0.527	<33.01
n41	50	DFT-s OFDM 64QAM	25.17	2.1	27.27	0.533	<33.01
n41	40	DFT-s OFDM	25.43	2.1	27.53	0.566	<33.01

		64QAM					
n41	30	DFT-s OFDM 64QAM	25.43	2.1	27.53	0.566	<33.01
n41	20	DFT-s OFDM 64QAM	25.27	2.1	27.37	0.546	<33.01
n41	100	DFT-s OFDM 256QAM	22.63	2.1	24.73	0.297	<33.01
n41	90	DFT-s OFDM 256QAM	22.63	2.1	24.73	0.297	<33.01
n41	80	DFT-s OFDM 256QAM	22.59	2.1	24.69	0.294	<33.01
n41	70	DFT-s OFDM 256QAM	22.74	2.1	24.84	0.305	<33.01
n41	60	DFT-s OFDM 256QAM	22.88	2.1	24.98	0.315	<33.01
n41	50	DFT-s OFDM 256QAM	22.77	2.1	24.87	0.307	<33.01
n41	40	DFT-s OFDM 256QAM	22.95	2.1	25.05	0.320	<33.01
n41	30	DFT-s OFDM 256QAM	23.03	2.1	25.13	0.326	<33.01
n41	20	DFT-s OFDM 256QAM	22.98	2.1	25.08	0.322	<33.01
n41	100	CP-OFDM QPSK	25.80	2.1	27.9	0.617	<33.01
n41	90	CP-OFDM QPSK	25.87	2.1	27.97	0.627	<33.01
n41	80	CP-OFDM QPSK	25.93	2.1	28.03	0.635	<33.01
n41	70	CP-OFDM QPSK	26.62	2.1	28.72	0.745	<33.01
n41	60	CP-OFDM QPSK	25.82	2.1	27.92	0.619	<33.01
n41	50	CP-OFDM	25.97	2.1	28.07	0.641	<33.01

		QPSK					
n41	40	CP-OFDM QPSK	26.28	2.1	28.38	0.689	<33.01
n41	30	CP-OFDM QPSK	26.22	2.1	28.32	0.679	<33.01
n41	20	CP-OFDM QPSK	26.04	2.1	28.14	0.652	<33.01
n41	100	CP-OFDM 16QAM	25.39	2.1	27.49	0.561	<33.01
n41	90	CP-OFDM 16QAM	25.41	2.1	27.51	0.564	<33.01
n41	80	CP-OFDM 16QAM	25.41	2.1	27.51	0.564	<33.01
n41	70	CP-OFDM 16QAM	24.90	2.1	27	0.501	<33.01
n41	60	CP-OFDM 16QAM	25.40	2.1	27.5	0.562	<33.01
n41	50	CP-OFDM 16QAM	25.54	2.1	27.64	0.581	<33.01
n41	40	CP-OFDM 16QAM	25.76	2.1	27.86	0.611	<33.01
n41	30	CP-OFDM 16QAM	25.72	2.1	27.82	0.605	<33.01
n41	20	CP-OFDM 16QAM	25.62	2.1	27.72	0.592	<33.01
n41	100	CP-OFDM 64QAM	23.98	2.1	26.08	0.406	<33.01
n41	90	CP-OFDM 64QAM	24.04	2.1	26.14	0.411	<33.01
n41	80	CP-OFDM 64QAM	23.73	2.1	25.83	0.383	<33.01
n41	70	CP-OFDM 64QAM	23.41	2.1	25.51	0.356	<33.01
n41	60	CP-OFDM 64QAM	24.04	2.1	26.14	0.411	<33.01
n41	50	CP-OFDM 64QAM	23.99	2.1	26.09	0.406	<33.01
n41	40	CP-OFDM 64QAM	24.22	2.1	26.32	0.429	<33.01
n41	30	CP-OFDM 64QAM	24.25	2.1	26.35	0.432	<33.01
n41	20	CP-OFDM 64QAM	24.19	2.1	26.29	0.426	<33.01
n41	100	CP-OFDM 256QAM	20.65	2.1	22.75	0.188	<33.01

n41	90	CP-OFDM 256QAM	20.81	2.1	22.91	0.195	<33.01
n41	80	CP-OFDM 256QAM	20.74	2.1	22.84	0.192	<33.01
n41	70	CP-OFDM 256QAM	22.28	2.1	24.38	0.274	<33.01
n41	60	CP-OFDM 256QAM	20.81	2.1	22.91	0.195	<33.01
n41	50	CP-OFDM 256QAM	20.90	2.1	23	0.200	<33.01
n41	40	CP-OFDM 256QAM	21.18	2.1	23.28	0.213	<33.01
n41	30	CP-OFDM 256QAM	21.08	2.1	23.18	0.208	<33.01
n41	20	CP-OFDM 256QAM	21.02	2.1	23.12	0.205	<33.01
n66	40	DFT-s OFDM BPSK	23.98	1.7	25.68	0.370	<30
n66	30	DFT-s OFDM BPSK	24.05	1.7	25.75	0.376	<30
n66	20	DFT-s OFDM BPSK	24.03	1.7	25.73	0.374	<30
n66	15	DFT-s OFDM BPSK	24	1.7	25.7	0.372	<30
n66	10	DFT-s OFDM BPSK	23.93	1.7	25.63	0.366	<30
n66	5	DFT-s OFDM BPSK	24	1.7	25.7	0.372	<30
n66	40	DFT-s OFDM QPSK	24.13	1.7	25.83	0.383	<30
n66	30	DFT-s OFDM QPSK	24.16	1.7	25.86	0.385	<30
n66	20	DFT-s OFDM QPSK	24.21	1.7	25.91	0.390	<30
n66	15	DFT-s OFDM QPSK	24.23	1.7	25.93	0.392	<30
n66	10	DFT-s OFDM QPSK	24.15	1.7	25.85	0.385	<30
n66	5	DFT-s OFDM QPSK	24.08	1.7	25.78	0.378	<30
n66	40	DFT-s OFDM 16QAM	23.71	1.7	25.41	0.348	<30
n66	30	DFT-s OFDM 16QAM	23.69	1.7	25.39	0.346	<30
n66	20	DFT-s OFDM 16QAM	23.77	1.7	25.47	0.352	<30
n66	15	DFT-s OFDM 16QAM	23.77	1.7	25.47	0.352	<30

n66	10	DFT-s OFDM 16QAM	23.66	1.7	25.36	0.344	<30
n66	5	DFT-s OFDM 16QAM	23.66	1.7	25.36	0.344	<30
n66	40	DFT-s OFDM 64QAM	22.25	1.7	23.95	0.248	<30
n66	30	DFT-s OFDM 64QAM	22.18	1.7	23.88	0.244	<30
n66	20	DFT-s OFDM 64QAM	22.33	1.7	24.03	0.253	<30
n66	15	DFT-s OFDM 64QAM	22.35	1.7	24.05	0.254	<30
n66	10	DFT-s OFDM 64QAM	22.15	1.7	23.85	0.243	<30
n66	5	DFT-s OFDM 64QAM	22.11	1.7	23.81	0.240	<30
n66	40	DFT-s OFDM 256QAM	19.97	1.7	21.67	0.147	<30
n66	30	DFT-s OFDM 256QAM	20.03	1.7	21.73	0.149	<30
n66	20	DFT-s OFDM 256QAM	19.91	1.7	21.61	0.145	<30
n66	15	DFT-s OFDM 256QAM	19.91	1.7	21.61	0.145	<30
n66	10	DFT-s OFDM 256QAM	19.9	1.7	21.6	0.145	<30
n66	5	DFT-s OFDM 256QAM	19.8	1.7	21.5	0.141	<30
n66	40	CP-OFDM QPSK	23.38	1.7	25.08	0.322	<30
n66	30	CP-OFDM QPSK	23.23	1.7	24.93	0.311	<30
n66	20	CP-OFDM QPSK	23.24	1.7	24.94	0.312	<30
n66	15	CP-OFDM QPSK	23.24	1.7	24.94	0.312	<30
n66	10	CP-OFDM QPSK	23.13	1.7	24.83	0.304	<30
n66	5	CP-OFDM QPSK	23.12	1.7	24.82	0.303	<30
n66	40	CP-OFDM 16QAM	22.5	1.7	24.2	0.263	<30
n66	30	CP-OFDM 16QAM	22.63	1.7	24.33	0.271	<30
n66	20	CP-OFDM 16QAM	22.78	1.7	24.48	0.281	<30
n66	15	CP-OFDM 16QAM	22.63	1.7	24.33	0.271	<30
n66	10	CP-OFDM	22.55	1.7	24.25	0.266	<30

		16QAM					
n66	5	CP-OFDM 16QAM	22.51	1.7	24.21	0.264	<30
n66	40	CP-OFDM 64QAM	21.06	1.7	22.76	0.189	<30
n66	30	CP-OFDM 64QAM	21.07	1.7	22.77	0.189	<30
n66	20	CP-OFDM 64QAM	21.23	1.7	22.93	0.196	<30
n66	15	CP-OFDM 64QAM	21.15	1.7	22.85	0.193	<30
n66	10	CP-OFDM 64QAM	20.96	1.7	22.66	0.185	<30
n66	5	CP-OFDM 64QAM	21.11	1.7	22.81	0.191	<30
n66	40	CP-OFDM 256QAM	17.99	1.7	19.69	0.093	<30
n66	30	CP-OFDM 256QAM	18.05	1.7	19.75	0.094	<30
n66	20	CP-OFDM 256QAM	17.94	1.7	19.64	0.092	<30
n66	15	CP-OFDM 256QAM	18.1	1.7	19.8	0.095	<30
n66	10	CP-OFDM 256QAM	17.83	1.7	19.53	0.090	<30
n66	5	CP-OFDM 256QAM	18.16	1.7	19.86	0.097	<30
n70	15	DFT-s OFDM BPSK	23.98	1.7	23.53	0.225	<30
n70	10	DFT-s OFDM BPSK	23.95	1.7	23.5	0.224	<30
n70	5	DFT-s OFDM BPSK	23.93	1.7	23.48	0.223	<30
n70	15	DFT-s OFDM QPSK	23.96	1.7	23.51	0.224	<30
n70	10	DFT-s OFDM QPSK	23.94	1.7	23.49	0.223	<30
n70	5	DFT-s OFDM QPSK	23.94	1.7	23.49	0.223	<30
n70	15	DFT-s OFDM 16QAM	22.95	1.7	22.5	0.178	<30
n70	10	DFT-s OFDM 16QAM	22.96	1.7	22.51	0.178	<30
n70	5	DFT-s OFDM 16QAM	23.01	1.7	22.56	0.180	<30
n70	15	DFT-s OFDM 64QAM	21.68	1.7	21.23	0.133	<30
n70	10	DFT-s OFDM 64QAM	21.6	1.7	21.15	0.130	<30

n70	5	DFT-s OFDM 64QAM	21.59	1.7	21.14	0.130	<30
n70	15	DFT-s OFDM 256QAM	19.41	1.7	18.96	0.079	<30
n70	10	DFT-s OFDM 256QAM	19.35	1.7	18.9	0.078	<30
n70	5	DFT-s OFDM 256QAM	19.36	1.7	18.91	0.078	<30
n70	15	CP-OFDM QPSK	22.5	1.7	22.05	0.160	<30
n70	10	CP-OFDM QPSK	22.35	1.7	21.9	0.155	<30
n70	5	CP-OFDM QPSK	22.43	1.7	21.98	0.158	<30
n71	20	DFT-s OFDM BPSK	23.96	-1.1	20.71	0.118	< 34.77
n71	15	DFT-s OFDM BPSK	23.91	-1.1	20.66	0.116	< 34.77
n71	10	DFT-s OFDM BPSK	23.75	-1.1	20.5	0.112	< 34.77
n71	5	DFT-s OFDM BPSK	23.74	-1.1	20.49	0.112	< 34.77
n71	20	DFT-s OFDM QPSK	23.99	-1.1	20.74	0.119	< 34.77
n71	15	DFT-s OFDM QPSK	24.02	-1.1	20.77	0.119	< 34.77
n71	10	DFT-s OFDM QPSK	23.89	-1.1	20.64	0.116	< 34.77
n71	5	DFT-s OFDM QPSK	24.03	-1.1	20.78	0.120	< 34.77
n71	20	DFT-s OFDM 16QAM	23.64	-1.1	20.39	0.109	< 34.77
n71	15	DFT-s OFDM 16QAM	23.53	-1.1	20.28	0.107	< 34.77
n71	10	DFT-s OFDM 16QAM	23.19	-1.1	19.94	0.099	< 34.77
n71	5	DFT-s OFDM 16QAM	23.5	-1.1	20.25	0.106	< 34.77
n71	20	DFT-s OFDM 64QAM	22.06	-1.1	18.81	0.076	< 34.77
n71	15	DFT-s OFDM 64QAM	22.04	-1.1	18.79	0.076	< 34.77
n71	10	DFT-s OFDM 64QAM	22.13	-1.1	18.88	0.077	< 34.77
n71	5	DFT-s OFDM 64QAM	21.96	-1.1	18.71	0.074	< 34.77
n71	20	DFT-s OFDM 256QAM	19.88	-1.1	16.63	0.046	< 34.77
n71	15	DFT-s OFDM	19.89	-1.1	16.64	0.046	< 34.77

		256QAM					
n71	10	DFT-s OFDM 256QAM	19.69	-1.1	16.44	0.044	< 34.77
n71	5	DFT-s OFDM 256QAM	19.67	-1.1	16.42	0.044	< 34.77
n71	20	CP-OFDM QPSK	22.44	-1.1	19.19	0.083	< 34.77
n71	15	CP-OFDM QPSK	23.13	-1.1	19.88	0.097	< 34.77
n71	10	CP-OFDM QPSK	23.04	-1.1	19.79	0.095	< 34.77
n71	5	CP-OFDM QPSK	23.16	-1.1	19.91	0.098	< 34.77
n71	20	CP-OFDM 16QAM	22.35	-1.1	19.1	0.081	< 34.77
n71	15	CP-OFDM 16QAM	22.4	-1.1	19.15	0.082	< 34.77
n71	10	CP-OFDM 16QAM	22.54	-1.1	19.29	0.085	< 34.77
n71	5	CP-OFDM 16QAM	22.4	-1.1	19.15	0.082	< 34.77
n71	20	CP-OFDM 64QAM	21.02	-1.1	17.77	0.060	< 34.77
n71	15	CP-OFDM 64QAM	21.03	-1.1	17.78	0.060	< 34.77
n71	10	CP-OFDM 64QAM	21.08	-1.1	17.83	0.061	< 34.77
n71	5	CP-OFDM 64QAM	21.02	-1.1	17.77	0.060	< 34.77
n71	20	CP-OFDM 256QAM	18.14	-1.1	14.89	0.031	< 34.77
n71	15	CP-OFDM 256QAM	17.9	-1.1	14.65	0.029	< 34.77
n71	10	CP-OFDM 256QAM	17.64	-1.1	14.39	0.027	< 34.77
n71	5	CP-OFDM 256QAM	17.87	-1.1	14.62	0.029	< 34.77
n77/n78(3450-3550MHz)	100	DFT-s OFDM BPSK	26.58	0.9	27.48	0.560	<30
n77/n78(3450-3550MHz)	90	DFT-s OFDM BPSK	26.75	0.9	27.65	0.582	<30
n77/n78(3450-3550MHz)	80	DFT-s OFDM BPSK	26.82	0.9	27.72	0.592	<30
n77/n78(3450-3550MHz)	70	DFT-s OFDM	27.06	0.9	27.96	0.625	<30

		BPSK					
n77/n78(3450-3550MHz)	60	DFT-s OFDM BPSK	27.01	0.9	27.91	0.618	<30
n77/n78(3450-3550MHz)	50	DFT-s OFDM BPSK	27.07	0.9	27.97	0.627	<30
n77/n78(3450-3550MHz)	40	DFT-s OFDM BPSK	27.09	0.9	27.99	0.630	<30
n77/n78(3450-3550MHz)	30	DFT-s OFDM BPSK	27.18	0.9	28.08	0.643	<30
n77/n78(3450-3550MHz)	20	DFT-s OFDM BPSK	27.08	0.9	27.98	0.628	<30
n77/n78(3450-3550MHz)	15	DFT-s OFDM BPSK	27.13	0.9	28.03	0.635	<30
n77/n78(3450-3550MHz)	10	DFT-s OFDM BPSK	26.99	0.9	27.89	0.615	<30
n77/n78(3450-3550MHz)	100	DFT-s OFDM QPSK	26.63	0.9	27.53	0.566	<30
n77/n78(3450-3550MHz)	90	DFT-s OFDM QPSK	26.84	0.9	27.74	0.594	<30
n77/n78(3450-3550MHz)	80	DFT-s OFDM QPSK	26.82	0.9	27.72	0.592	<30
n77/n78(3450-3550MHz)	70	DFT-s OFDM QPSK	27.07	0.9	27.97	0.627	<30
n77/n78(3450-3550MHz)	60	DFT-s OFDM QPSK	27.11	0.9	28.01	0.632	<30
n77/n78(3450-3550MHz)	50	DFT-s OFDM QPSK	26.07	0.9	26.97	0.498	<30
n77/n78(3450-3550MHz)	40	DFT-s OFDM QPSK	27.22	0.9	28.12	0.649	<30
n77/n78(3450-3550MHz)	30	DFT-s OFDM	27.23	0.9	28.13	0.650	<30

		QPSK					
n77/n78(3450-3550MHz)	20	DFT-s OFDM QPSK	27.06	0.9	27.96	0.625	<30
n77/n78(3450-3550MHz)	15	DFT-s OFDM QPSK	27.23	0.9	28.13	0.650	<30
n77/n78(3450-3550MHz)	10	DFT-s OFDM QPSK	26.97	0.9	27.87	0.612	<30
n77/n78(3450-3550MHz)	100	DFT-s OFDM 16QAM	25.57	0.9	26.47	0.444	<30
n77/n78(3450-3550MHz)	90	DFT-s OFDM 16QAM	25.65	0.9	26.55	0.452	<30
n77/n78(3450-3550MHz)	80	DFT-s OFDM 16QAM	25.7	0.9	26.6	0.457	<30
n77/n78(3450-3550MHz)	70	DFT-s OFDM 16QAM	25.78	0.9	26.68	0.466	<30
n77/n78(3450-3550MHz)	60	DFT-s OFDM 16QAM	25.99	0.9	26.89	0.489	<30
n77/n78(3450-3550MHz)	50	DFT-s OFDM 16QAM	24.73	0.9	25.63	0.366	<30
n77/n78(3450-3550MHz)	40	DFT-s OFDM 16QAM	26.12	0.9	27.02	0.504	<30
n77/n78(3450-3550MHz)	30	DFT-s OFDM 16QAM	26.13	0.9	27.03	0.505	<30
n77/n78(3450-3550MHz)	20	DFT-s OFDM 16QAM	26.11	0.9	27.01	0.502	<30
n77/n78(3450-3550MHz)	15	DFT-s OFDM 16QAM	26.13	0.9	27.03	0.505	<30
n77/n78(3450-3550MHz)	10	DFT-s OFDM 16QAM	26.01	0.9	26.91	0.491	<30
n77/n78(3450-3550MHz)	100	DFT-s OFDM	24.14	0.9	25.04	0.319	<30

		64QAM					
n77/n78(3450-3550MHz)	90	DFT-s OFDM 64QAM	24.43	0.9	25.33	0.341	<30
n77/n78(3450-3550MHz)	80	DFT-s OFDM 64QAM	24.56	0.9	25.46	0.352	<30
n77/n78(3450-3550MHz)	70	DFT-s OFDM 64QAM	24.73	0.9	25.63	0.366	<30
n77/n78(3450-3550MHz)	60	DFT-s OFDM 64QAM	24.59	0.9	25.49	0.354	<30
n77/n78(3450-3550MHz)	50	DFT-s OFDM 64QAM	22.57	0.9	23.47	0.222	<30
n77/n78(3450-3550MHz)	40	DFT-s OFDM 64QAM	24.66	0.9	25.56	0.360	<30
n77/n78(3450-3550MHz)	30	DFT-s OFDM 64QAM	24.64	0.9	25.54	0.358	<30
n77/n78(3450-3550MHz)	20	DFT-s OFDM 64QAM	24.72	0.9	25.62	0.365	<30
n77/n78(3450-3550MHz)	15	DFT-s OFDM 64QAM	24.64	0.9	25.54	0.358	<30
n77/n78(3450-3550MHz)	10	DFT-s OFDM 64QAM	24.42	0.9	25.32	0.340	<30
n77/n78(3450-3550MHz)	100	DFT-s OFDM 256QAM	22.28	0.9	23.18	0.208	<30
n77/n78(3450-3550MHz)	90	DFT-s OFDM 256QAM	22.31	0.9	23.21	0.209	<30
n77/n78(3450-3550MHz)	80	DFT-s OFDM 256QAM	22.3	0.9	23.2	0.209	<30
n77/n78(3450-3550MHz)	70	DFT-s OFDM 256QAM	22.57	0.9	23.47	0.222	<30
n77/n78(3450-3550MHz)	60	DFT-s OFDM	22.52	0.9	23.42	0.220	<30

		256QAM					
n77/n78(3450-3550MHz)	50	DFT-s OFDM 256QAM	25.57	0.9	26.47	0.444	<30
n77/n78(3450-3550MHz)	40	DFT-s OFDM 256QAM	22.61	0.9	23.51	0.224	<30
n77/n78(3450-3550MHz)	30	DFT-s OFDM 256QAM	22.62	0.9	23.52	0.225	<30
n77/n78(3450-3550MHz)	20	DFT-s OFDM 256QAM	22.64	0.9	23.54	0.226	<30
n77/n78(3450-3550MHz)	15	DFT-s OFDM 256QAM	22.62	0.9	23.52	0.225	<30
n77/n78(3450-3550MHz)	10	DFT-s OFDM 256QAM	22.53	0.9	23.43	0.220	<30
n77/n78(3450-3550MHz)	100	CP-OFDM QPSK	25.02	0.9	25.92	0.391	<30
n77/n78(3450-3550MHz)	90	CP-OFDM QPSK	25.24	0.9	26.14	0.411	<30
n77/n78(3450-3550MHz)	80	CP-OFDM QPSK	25.41	0.9	26.31	0.428	<30
n77/n78(3450-3550MHz)	70	CP-OFDM QPSK	25.57	0.9	26.47	0.444	<30
n77/n78(3450-3550MHz)	60	CP-OFDM QPSK	25.48	0.9	26.38	0.435	<30
n77/n78(3450-3550MHz)	50	CP-OFDM QPSK	25.01	0.9	25.91	0.390	<30
n77/n78(3450-3550MHz)	40	CP-OFDM QPSK	25.76	0.9	26.66	0.463	<30
n77/n78(3450-3550MHz)	30	CP-OFDM QPSK	25.66	0.9	26.56	0.453	<30
n77/n78(3450-3550MHz)	20	CP-OFDM QPSK	25.64	0.9	26.54	0.451	<30
n77/n78(3450-3550MHz)	15	CP-OFDM QPSK	25.66	0.9	26.56	0.453	<30
n77/n78(3450-3550MHz)	10	CP-OFDM QPSK	25.52	0.9	26.42	0.439	<30
n77/n78(3450-3550MHz)	100	CP-OFDM 16QAM	24.56	0.9	25.46	0.352	<30
n77/n78(3450-3550MHz)	90	CP-OFDM 16QAM	24.65	0.9	25.55	0.359	<30

n77/n78(3450-3550MHz)	80	CP-OFDM 16QAM	24.72	0.9	25.62	0.365	<30
n77/n78(3450-3550MHz)	70	CP-OFDM 16QAM	24.84	0.9	25.74	0.375	<30
n77/n78(3450-3550MHz)	60	CP-OFDM 16QAM	25	0.9	25.9	0.389	<30
n77/n78(3450-3550MHz)	50	CP-OFDM 16QAM	23.79	0.9	24.69	0.294	<30
n77/n78(3450-3550MHz)	40	CP-OFDM 16QAM	25.09	0.9	25.99	0.397	<30
n77/n78(3450-3550MHz)	30	CP-OFDM 16QAM	25.04	0.9	25.94	0.393	<30
n77/n78(3450-3550MHz)	20	CP-OFDM 16QAM	25.15	0.9	26.05	0.403	<30
n77/n78(3450-3550MHz)	15	CP-OFDM 16QAM	25.04	0.9	25.94	0.393	<30
n77/n78(3450-3550MHz)	10	CP-OFDM 16QAM	25	0.9	25.9	0.389	<30
n77/n78(3450-3550MHz)	100	CP-OFDM 64QAM	23.01	0.9	23.91	0.246	<30
n77/n78(3450-3550MHz)	90	CP-OFDM 64QAM	23.43	0.9	24.33	0.271	<30
n77/n78(3450-3550MHz)	80	CP-OFDM 64QAM	23.35	0.9	24.25	0.266	<30
n77/n78(3450-3550MHz)	70	CP-OFDM 64QAM	23.79	0.9	24.69	0.294	<30
n77/n78(3450-3550MHz)	60	CP-OFDM 64QAM	23.66	0.9	24.56	0.286	<30
n77/n78(3450-3550MHz)	50	CP-OFDM 64QAM	20.93	0.9	21.83	0.152	<30
n77/n78(3450-3550MHz)	40	CP-OFDM 64QAM	23.71	0.9	24.61	0.289	<30
n77/n78(3450-3550MHz)	30	CP-OFDM 64QAM	23.84	0.9	24.74	0.298	<30
n77/n78(3450-3550MHz)	20	CP-OFDM 64QAM	23.79	0.9	24.69	0.294	<30
n77/n78(3450-3550MHz)	15	CP-OFDM 64QAM	23.84	0.9	24.74	0.298	<30
n77/n78(3450-3550MHz)	10	CP-OFDM 64QAM	23.59	0.9	24.49	0.281	<30
n77/n78(3450-3550MHz)	100	CP-OFDM 256QAM	20.43	0.9	21.33	0.136	<30
n77/n78(3450-3550MHz)	90	CP-OFDM 256QAM	20.63	0.9	21.53	0.142	<30
n77/n78(3450-	80	CP-OFDM	20.89	0.9	21.79	0.151	<30

3550MHz)		256QAM					
n77/n78(3450-3550MHz)	70	CP-OFDM 256QAM	20.93	0.9	21.83	0.152	<30
n77/n78(3450-3550MHz)	60	CP-OFDM 256QAM	21.1	0.9	22	0.158	<30
n77/n78(3450-3550MHz)	50	CP-OFDM 256QAM	20.93	0.9	21.83	0.152	<30
n77/n78(3450-3550MHz)	40	CP-OFDM 256QAM	21.33	0.9	22.23	0.167	<30
n77/n78(3450-3550MHz)	30	CP-OFDM 256QAM	21.06	0.9	21.96	0.157	<30
n77/n78(3450-3550MHz)	20	CP-OFDM 256QAM	21.02	0.9	21.92	0.156	<30
n77/n78(3450-3550MHz)	15	CP-OFDM 256QAM	21.06	0.9	21.96	0.157	<30
n77/n78(3450-3550MHz)	10	CP-OFDM 256QAM	20.91	0.9	21.81	0.152	<30
n77/n78(3700-3980MHz)	100	DFT-s OFDM BPSK	26.76	0.9	27.66	0.583	<30
n77/n78(3700-3980MHz)	90	DFT-s OFDM BPSK	26.8	0.9	27.7	0.589	<30
n77/n78(3700-3980MHz)	80	DFT-s OFDM BPSK	26.85	0.9	27.75	0.596	<30
n77/n78(3700-3980MHz)	70	DFT-s OFDM BPSK	27.04	0.9	27.94	0.622	<30
n77/n78(3700-3980MHz)	60	DFT-s OFDM BPSK	26.85	0.9	27.75	0.596	<30
n77/n78(3700-3980MHz)	50	DFT-s OFDM BPSK	27.27	0.9	28.17	0.656	<30
n77/n78(3700-3980MHz)	40	DFT-s OFDM BPSK	27.28	0.9	28.18	0.658	<30

n77/n78(3700-3980MHz)	30	DFT-s OFDM BPSK	27.24	0.9	28.14	0.652	<30
n77/n78(3700-3980MHz)	20	DFT-s OFDM BPSK	27.18	0.9	28.08	0.643	<30
n77/n78(3700-3980MHz)	15	DFT-s OFDM BPSK	27.04	0.9	27.94	0.622	<30
n77/n78(3700-3980MHz)	10	DFT-s OFDM BPSK	27.02	0.9	27.92	0.619	<30
n77/n78(3700-3980MHz)	100	DFT-s OFDM QPSK	26.77	0.9	27.67	0.585	<30
n77/n78(3700-3980MHz)	90	DFT-s OFDM QPSK	26.84	0.9	27.74	0.594	<30
n77/n78(3700-3980MHz)	80	DFT-s OFDM QPSK	26.89	0.9	27.79	0.601	<30
n77/n78(3700-3980MHz)	70	DFT-s OFDM QPSK	27.02	0.9	27.92	0.619	<30
n77/n78(3700-3980MHz)	60	DFT-s OFDM QPSK	26.89	0.9	27.79	0.601	<30
n77/n78(3700-3980MHz)	50	DFT-s OFDM QPSK	26.14	0.9	27.04	0.506	<30
n77/n78(3700-3980MHz)	40	DFT-s OFDM QPSK	27.28	0.9	28.18	0.658	<30
n77/n78(3700-3980MHz)	30	DFT-s OFDM QPSK	27.32	0.9	28.22	0.664	<30
n77/n78(3700-3980MHz)	20	DFT-s OFDM QPSK	27.28	0.9	28.18	0.658	<30
n77/n78(3700-3980MHz)	15	DFT-s OFDM QPSK	27.08	0.9	27.98	0.628	<30
n77/n78(3700-3980MHz)	10	DFT-s OFDM QPSK	27.14	0.9	28.04	0.637	<30

n77/n78(3700-3980MHz)	100	DFT-s OFDM 16QAM	25.74	0.9	26.64	0.461	<30
n77/n78(3700-3980MHz)	90	DFT-s OFDM 16QAM	25.69	0.9	26.59	0.456	<30
n77/n78(3700-3980MHz)	80	DFT-s OFDM 16QAM	25.71	0.9	26.61	0.458	<30
n77/n78(3700-3980MHz)	70	DFT-s OFDM 16QAM	25.91	0.9	26.81	0.480	<30
n77/n78(3700-3980MHz)	60	DFT-s OFDM 16QAM	25.94	0.9	26.84	0.483	<30
n77/n78(3700-3980MHz)	50	DFT-s OFDM 16QAM	24.7	0.9	25.6	0.363	<30
n77/n78(3700-3980MHz)	40	DFT-s OFDM 16QAM	26.22	0.9	27.12	0.515	<30
n77/n78(3700-3980MHz)	30	DFT-s OFDM 16QAM	26.24	0.9	27.14	0.518	<30
n77/n78(3700-3980MHz)	20	DFT-s OFDM 16QAM	26.22	0.9	27.12	0.515	<30
n77/n78(3700-3980MHz)	15	DFT-s OFDM 16QAM	26.06	0.9	26.96	0.497	<30
n77/n78(3700-3980MHz)	10	DFT-s OFDM 16QAM	26.04	0.9	26.94	0.494	<30
n77/n78(3700-3980MHz)	100	DFT-s OFDM 64QAM	24.37	0.9	25.27	0.337	<30
n77/n78(3700-3980MHz)	90	DFT-s OFDM 64QAM	24.32	0.9	25.22	0.333	<30
n77/n78(3700-3980MHz)	80	DFT-s OFDM 64QAM	24.45	0.9	25.35	0.343	<30
n77/n78(3700-3980MHz)	70	DFT-s OFDM 64QAM	24.62	0.9	25.52	0.356	<30

n77/n78(3700-3980MHz)	60	DFT-s OFDM 64QAM	24.4	0.9	25.3	0.339	<30
n77/n78(3700-3980MHz)	50	DFT-s OFDM 64QAM	22.79	0.9	23.69	0.234	<30
n77/n78(3700-3980MHz)	40	DFT-s OFDM 64QAM	24.88	0.9	25.78	0.378	<30
n77/n78(3700-3980MHz)	30	DFT-s OFDM 64QAM	24.72	0.9	25.62	0.365	<30
n77/n78(3700-3980MHz)	20	DFT-s OFDM 64QAM	24.88	0.9	25.78	0.378	<30
n77/n78(3700-3980MHz)	15	DFT-s OFDM 64QAM	24.56	0.9	25.46	0.352	<30
n77/n78(3700-3980MHz)	10	DFT-s OFDM 64QAM	24.7	0.9	25.6	0.363	<30
n77/n78(3700-3980MHz)	100	DFT-s OFDM 256QAM	22.24	0.9	23.14	0.206	<30
n77/n78(3700-3980MHz)	90	DFT-s OFDM 256QAM	22.33	0.9	23.23	0.210	<30
n77/n78(3700-3980MHz)	80	DFT-s OFDM 256QAM	22.35	0.9	23.25	0.211	<30
n77/n78(3700-3980MHz)	70	DFT-s OFDM 256QAM	22.38	0.9	23.28	0.213	<30
n77/n78(3700-3980MHz)	60	DFT-s OFDM 256QAM	22.34	0.9	23.24	0.211	<30
n77/n78(3700-3980MHz)	50	DFT-s OFDM 256QAM	25.84	0.9	26.74	0.472	<30
n77/n78(3700-3980MHz)	40	DFT-s OFDM 256QAM	22.81	0.9	23.71	0.235	<30
n77/n78(3700-3980MHz)	30	DFT-s OFDM 256QAM	22.72	0.9	23.62	0.230	<30

n77/n78(3700-3980MHz)	20	DFT-s OFDM 256QAM	22.81	0.9	23.71	0.235	<30
n77/n78(3700-3980MHz)	15	DFT-s OFDM 256QAM	22.54	0.9	23.44	0.221	<30
n77/n78(3700-3980MHz)	10	DFT-s OFDM 256QAM	22.6	0.9	23.5	0.224	<30
n77/n78(3700-3980MHz)	100	CP-OFDM QPSK	25.22	0.9	26.12	0.409	<30
n77/n78(3700-3980MHz)	90	CP-OFDM QPSK	25.23	0.9	26.13	0.410	<30
n77/n78(3700-3980MHz)	80	CP-OFDM QPSK	25.34	0.9	26.24	0.421	<30
n77/n78(3700-3980MHz)	70	CP-OFDM QPSK	25.41	0.9	26.31	0.428	<30
n77/n78(3700-3980MHz)	60	CP-OFDM QPSK	25.4	0.9	26.3	0.427	<30
n77/n78(3700-3980MHz)	50	CP-OFDM QPSK	25.08	0.9	25.98	0.396	<30
n77/n78(3700-3980MHz)	40	CP-OFDM QPSK	25.84	0.9	26.74	0.472	<30
n77/n78(3700-3980MHz)	30	CP-OFDM QPSK	25.77	0.9	26.67	0.465	<30
n77/n78(3700-3980MHz)	20	CP-OFDM QPSK	25.75	0.9	26.65	0.462	<30
n77/n78(3700-3980MHz)	15	CP-OFDM QPSK	25.62	0.9	26.52	0.449	<30
n77/n78(3700-3980MHz)	10	CP-OFDM QPSK	25.59	0.9	26.49	0.446	<30
n77/n78(3700-3980MHz)	100	CP-OFDM 16QAM	24.71	0.9	25.61	0.364	<30
n77/n78(3700-3980MHz)	90	CP-OFDM 16QAM	24.75	0.9	25.65	0.367	<30
n77/n78(3700-3980MHz)	80	CP-OFDM 16QAM	24.91	0.9	25.81	0.381	<30
n77/n78(3700-3980MHz)	70	CP-OFDM 16QAM	24.94	0.9	25.84	0.384	<30
n77/n78(3700-3980MHz)	60	CP-OFDM 16QAM	24.91	0.9	25.81	0.381	<30
n77/n78(3700-3980MHz)	50	CP-OFDM 16QAM	23.83	0.9	24.73	0.297	<30
n77/n78(3700-3980MHz)	40	CP-OFDM 16QAM	25.27	0.9	26.17	0.414	<30

n77/n78(3700-3980MHz)	30	CP-OFDM 16QAM	25.3	0.9	26.2	0.417	<30
n77/n78(3700-3980MHz)	20	CP-OFDM 16QAM	25.27	0.9	26.17	0.414	<30
n77/n78(3700-3980MHz)	15	CP-OFDM 16QAM	24.97	0.9	25.87	0.386	<30
n77/n78(3700-3980MHz)	10	CP-OFDM 16QAM	25.04	0.9	25.94	0.393	<30
n77/n78(3700-3980MHz)	100	CP-OFDM 64QAM	23.27	0.9	24.17	0.261	<30
n77/n78(3700-3980MHz)	90	CP-OFDM 64QAM	23.2	0.9	24.1	0.257	<30
n77/n78(3700-3980MHz)	80	CP-OFDM 64QAM	23.38	0.9	24.28	0.268	<30
n77/n78(3700-3980MHz)	70	CP-OFDM 64QAM	23.58	0.9	24.48	0.281	<30
n77/n78(3700-3980MHz)	60	CP-OFDM 64QAM	23.61	0.9	24.51	0.282	<30
n77/n78(3700-3980MHz)	50	CP-OFDM 64QAM	21.12	0.9	22.02	0.159	<30
n77/n78(3700-3980MHz)	40	CP-OFDM 64QAM	23.98	0.9	24.88	0.308	<30
n77/n78(3700-3980MHz)	30	CP-OFDM 64QAM	23.88	0.9	24.78	0.301	<30
n77/n78(3700-3980MHz)	20	CP-OFDM 64QAM	23.98	0.9	24.88	0.308	<30
n77/n78(3700-3980MHz)	15	CP-OFDM 64QAM	23.62	0.9	24.52	0.283	<30
n77/n78(3700-3980MHz)	10	CP-OFDM 64QAM	23.85	0.9	24.75	0.299	<30
n77/n78(3700-3980MHz)	100	CP-OFDM 256QAM	20.72	0.9	21.62	0.145	<30
n77/n78(3700-3980MHz)	90	CP-OFDM 256QAM	20.57	0.9	21.47	0.140	<30
n77/n78(3700-3980MHz)	80	CP-OFDM 256QAM	21.1	0.9	22	0.158	<30
n77/n78(3700-3980MHz)	70	CP-OFDM 256QAM	21.69	0.9	22.59	0.182	<30
n77/n78(3700-3980MHz)	60	CP-OFDM 256QAM	21.1	0.9	22	0.158	<30
n77/n78(3700-3980MHz)	50	CP-OFDM 256QAM	21.69	0.9	22.59	0.182	<30
n77/n78(3700-3980MHz)	40	CP-OFDM 256QAM	21.35	0.9	22.25	0.168	<30
n77/n78(3700-	30	CP-OFDM	21.12	0.9	22.02	0.159	<30

3980MHz)		256QAM					
n77/n78(3700-3980MHz)	20	CP-OFDM 256QAM	21.35	0.9	22.25	0.168	<30
n77/n78(3700-3980MHz)	15	CP-OFDM 256QAM	20.91	0.9	21.81	0.152	<30
n77/n78(3700-3980MHz)	10	CP-OFDM 256QAM	21.07	0.9	21.97	0.157	<30

1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27 and Part90, Part 96 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90	Miscellaneous Wireless Communications Services
6	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE

n2 & n25			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	PASS
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §24.238(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)(b)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §24.235	No limit	N/A

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

n5& n26(824-849MHz)			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §22.917(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §22.355	≤ ±2.5ppm	PASS

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

n7 &n38 & n41			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤2W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(m)(4)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

n12			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

n13			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(c)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c)(2)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(c)(2)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

n14			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §90.542(a) (7)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §90.543(e)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §90.543(f)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §90.543(c)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §90.543	No limit	N/A

n26(814-824MHz)			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §90.635(b)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §90.691(a)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §90.691(a)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §90.691(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §90.543	No limit	N/A

n48			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41(b)	Refer to section 2.1	PASS
Peak-Average Ratio	§96.39(g)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §96.41(e)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §96.41(e)	≤ -40 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §96.41(e)	≤ -40 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

n30			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	ERP ≤250mW	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(a)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53	≤ -40 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53	≤ -40 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

n66 & n70			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤1 W	PASS
Peak-Average Ratio	§27.50(d) (5)	Limit≤13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(h)(1) §27.53(h)(3)(i)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)(1)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(h)(1)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

n71			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP ≤ 3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

n77(3450~3550MHz)			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(K)(3)	EIRP ≤ 1W	PASS
Peak-Average Ratio	§27.50(K)(4)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(l)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(l)(2)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

n77(3700~3980MHz)			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W	PASS
Peak-Average Ratio	§27.50(j)(4)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(n)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(n)(2)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.

Test detailed items/section required by FCC rules and results are as below:

Test Item	Test Engineer	Result	Method Determination /Remark
Transmitter Conducted Output Power and ERP/EIRP	Gan Jing	PASS	Nodeviation
Occupied Bandwidth	Gan Jing	PASS	Nodeviation
Frequency Stability	Gan Jing	PASS	Nodeviation
Peak to Average Radio	Gan Jing	PASS	Nodeviation
Conducted Spurious Emissions	Gan Jing	PASS	Nodeviation
Band Edge	Gan Jing	PASS	Nodeviation
Radiated Spurious Emissions	Li Hanbin	PASS	Nodeviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.
Note 2: Additions to, deviation, or exclusions from the method shall be judged in the “method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.
Note 3: The declared of product specification for EUT presented in the report are provided by manufacturer and the test laboratory is not responsible for the accuracy of the information.
Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.
Note 5: According to the measured power of all frequency bands, The frequency band with the highest power as worst case was selected for the same NR frequency band for testing.

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60

2. Summary Test Results And Description

2.1. Transmitter Conducted Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for n2, n25, the ERP of Mobile and portable stations are limited to 2 watts EIRP.

According to FCC section 22.913 (a)(5) for n5, n26(824-849MHz), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (d)(4) for n66, n70, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

According to FCC section 27.50 (h)(2) for n7,n38, n41, mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

According to FCC section 27.50(c)(10) for n12, n71, Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to FCC section 27.50 (b)(10)for n13, Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts E.R.P.

According to FCC section 90.542 (a)(7)for n14, Portable stations (hand-held devices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP.

According to FCC section 90.635(b) for n26 (814-824MHz), the maximum output power of the transmitter for mobile stations is 100 watts.

According to FCC section 27.50 (a)(3)for n30, Mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average E.I.R.P. must not exceed 50 mill watts within any 1 megahertz of authorized bandwidth.

According to FCC section 27.50(j)(3) for n77(3700-3980MHz), n78(3700-3800MHz), mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful

communications.

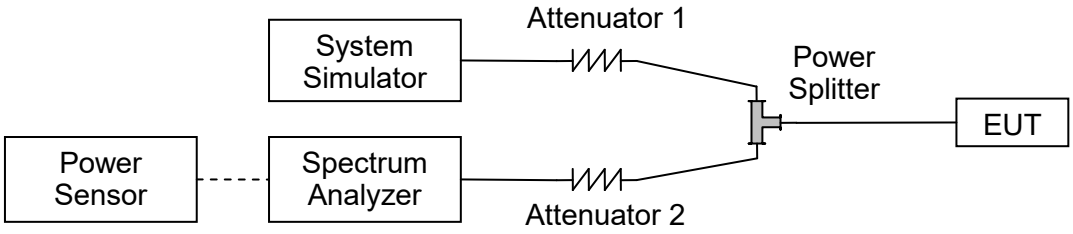
According to FCC section 27.50(k)(3) for n77, n78(3450-3550MHz),Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(k)(3) for n77, n78(3450-3550MHz),Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 96.41(b) for n48, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table as below. Paragraph

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD[1]	47	37

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

2.1.4. Conducted Output Power

n30						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					462000	
Frequency (MHz)					2310	
10	DFT-s-OFDM PI/2 BPSK	1	1		21.69	
10		1	53		21.69	
10		1	104		21.58	
10		50	1		21.20	
10		50	25		21.71	
10		50	50		21.05	
10		100	0		21.19	
10	DFT-s-OFDM QPSK	1	1		21.77	
10		1	53		21.80	
10		1	104		21.64	
10		50	1		20.73	
10		50	25		21.71	
10		50	50		20.58	
10		100	0		20.73	
10	DFT-s-OFDM 16QAM	1	1		20.72	
10	DFT-s-OFDM 64QAM	1	1		19.08	
10	DFT-s-OFDM 256QAM	1	1		16.89	
10	CP-OFDM QPSK	1	1		20.06	
10	CP-OFDM 16QAM	1	1		19.57	
10	CP-OFDM 64QAM	1	1		17.74	
10	CP-OFDM 256QAM	1	1		14.84	
Channel				461500	462000	462500
Frequency (MHz)				2307.5	2310	2312.5
5	DFT-s-OFDM QPSK	1	1	21.56	21.69	21.56

n48						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98
40	DFT-s-OFDM PI/2 BPSK	1	1	19.45	19.98	19.73
40		1	53	19.66	19.68	19.65
40		1	104	19.97	19.91	19.92
40		50	1	19.56	19.77	19.64
40		50	25	19.67	19.76	19.67
40		50	50	19.65	19.70	19.68
40		100	0	19.68	19.72	19.70

40	DFT-s-OFDM QPSK	1	1	19.45	19.95	19.74
40		1	53	19.63	19.67	19.66
40		1	104	19.97	19.87	19.92
40		50	1	19.55	19.76	19.62
40		50	25	19.64	19.73	19.69
40		50	50	19.66	19.68	19.64
40		100	0	19.58	19.72	19.69
40	DFT-s-OFDM 16QAM	1	1	19.36	19.92	19.61
40	DFT-s-OFDM 64QAM	1	1	19.44	20.00	19.72
40	DFT-s-OFDM 256QAM	1	1	17.19	17.81	17.54
40	CP-OFDM QPSK	1	1	19.46	20.02	19.78
40	CP-OFDM 16QAM	1	1	19.50	20.04	19.70
40	CP-OFDM 64QAM	1	1	18.05	18.60	18.28
40	CP-OFDM 256QAM	1	1	15.26	15.77	15.63
Channel				637668	641666	645666
Frequency (MHz)				3565.02	3624.99	3684.99
30	DFT-s-OFDM QPSK	1	1	19.33	19.81	19.66
Channel				637334	641666	646000
Frequency (MHz)				3560.01	3624.99	3690
20	DFT-s-OFDM QPSK	1	1	19.32	19.72	19.57
Channel				637000	641666	646332
Frequency (MHz)				3555	3624.99	3694.98
10	DFT-s-OFDM QPSK	1	1	19.29	19.49	19.44

Effective Radiated Power and Effective Isotropic Radiated Power:

n30									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel						462000	462000		
Frequency (MHz)						2310.00	2310.00		
10	DFT-s-OFDM PI/2 BPSK	1	1			23.49	0.223		
10		1	53			23.49	0.223		
10		1	104			23.38	0.218		
10		50	1			23.00	0.200		
10		50	25			23.51	0.224		
10		50	50			22.85	0.193		
10		100	0			22.99	0.199		
10	DFT-s-OFDM QPSK	1	1			23.57	0.228		
10		1	53			23.60	0.229		
10		1	104			23.44	0.221		

10		50	1			22.53	0.179		
10		50	25			23.51	0.224		
10		50	50			22.38	0.173		
10		100	0			22.53	0.179		
10	DFT-s-OFDM 16QAM	1	1			22.52	0.179		
10	DFT-s-OFDM 64QAM	1	1			20.88	0.122		
10	DFT-s-OFDM 256QAM	1	1			18.69	0.074		
10	CP-OFDM QPSK	1	1			21.86	0.153		
10	CP-OFDM 16QAM	1	1			21.37	0.137		
10	CP-OFDM 64QAM	1	1			19.54	0.090		
10	CP-OFDM 256QAM	1	1			16.64	0.046		
Channel				461500	461500	462000	462000	462500	462500
Frequency (MHz)				2307.50	2307.50	2310.00	2310.00	2312.50	2312.50
5	DFT-s-OFDM QPSK	1	1	23.36	0.217	23.49	0.223	23.36	0.217

n48									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				638000	638000	641666	641666	645332	645332
Frequency (MHz)				3570.00	3570.00	3624.99	3624.99	3679.98	3679.98
40	DFT-s-OFDM PI/2 BPSK	1	1	20.95	0.124	21.48	0.141	21.23	0.133
40		1	53	21.16	0.131	21.18	0.131	21.15	0.130
40		1	104	21.47	0.140	21.41	0.138	21.42	0.139
40		50	1	21.06	0.128	21.27	0.134	21.14	0.130
40		50	25	21.17	0.131	21.26	0.134	21.17	0.131
40		50	50	21.15	0.130	21.20	0.132	21.18	0.131
40		100	0	21.18	0.131	21.22	0.132	21.20	0.132
40	DFT-s-OFDM QPSK	1	1	20.95	0.124	21.45	0.140	21.24	0.133
40		1	53	21.13	0.130	21.17	0.131	21.16	0.131
40		1	104	21.47	0.140	21.37	0.137	21.42	0.139
40		50	1	21.05	0.127	21.26	0.134	21.12	0.129
40		50	25	21.14	0.130	21.23	0.133	21.19	0.132
40		50	50	21.16	0.131	21.18	0.131	21.14	0.130
40		10	0	21.08	0.128	21.22	0.132	21.19	0.132

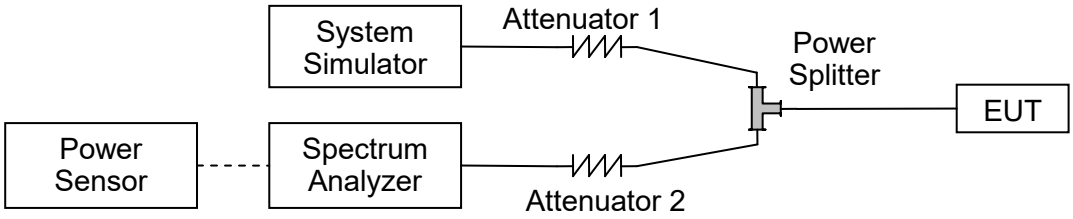
		0							
40	DFT-s-OFDM 16QAM	1	1	20.86	0.122	21.42	0.139	21.11	0.129
40	DFT-s-OFDM 64QAM	1	1	20.94	0.124	21.50	0.141	21.22	0.132
40	DFT-s-OFDM 256QAM	1	1	18.69	0.074	19.31	0.085	19.04	0.080
40	CP-OFDM QPSK	1	1	20.96	0.125	21.52	0.142	21.28	0.134
40	CP-OFDM 16QAM	1	1	21.00	0.126	21.54	0.143	21.20	0.132
40	CP-OFDM 64QAM	1	1	19.55	0.090	20.10	0.102	19.78	0.095
40	CP-OFDM 256QAM	1	1	16.76	0.047	17.27	0.053	17.13	0.052
Channel				637668	637668	641666	641666	645666	645666
Frequency (MHz)				3565.02	3565.02	3624.99	3624.99	3684.99	3684.99
30	DFT-s-OFDM QPSK	1	1	20.83	0.121	21.31	0.135	21.16	0.131
Channel				637334	637334	641666	641666	646000	646000
Frequency (MHz)				3560.01	3560.01	3624.99	3624.99	3690.00	3690.00
20	DFT-s-OFDM QPSK	1	1	20.82	0.121	21.22	0.132	21.07	0.128
Channel				637000	637000	641666	641666	646332	646332
Frequency (MHz)				3555.00	3555.00	3624.99	3624.99	3694.98	3694.98
10	DFT-s-OFDM QPSK	1	1	20.79	0.120	20.99	0.126	20.94	0.124

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth 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 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

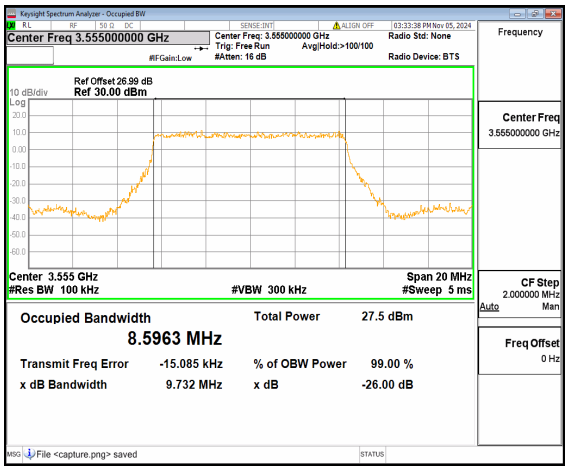
2.2.4. Test Result

Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
n48	30	10	637000	DFT-s-OFDM PI/2 BPSK	24/0	8.5963	9.732	PASS
n48	30	10	637000	DFT-s-OFDM QPSK	24/0	8.6055	9.679	PASS
n48	30	10	637000	DFT-s-OFDM 16QAM	24/0	8.6131	9.958	PASS
n48	30	10	637000	DFT-s-OFDM 64QAM	24/0	8.5823	9.612	PASS
n48	30	10	637000	DFT-s-OFDM 256QAM	24/0	8.6015	9.752	PASS
n48	30	10	637000	CP-OFDM QPSK	24/0	8.5787	10.026	PASS
n48	30	10	641666	DFT-s-OFDM PI/2 BPSK	24/0	8.5910	9.513	PASS
n48	30	10	641666	DFT-s-OFDM QPSK	24/0	8.5859	9.807	PASS
n48	30	10	641666	DFT-s-OFDM 16QAM	24/0	8.6148	9.943	PASS
n48	30	10	641666	DFT-s-OFDM 64QAM	24/0	8.5867	9.431	PASS
n48	30	10	641666	DFT-s-OFDM 256QAM	24/0	8.5673	9.705	PASS
n48	30	10	641666	CP-OFDM QPSK	24/0	8.5844	9.547	PASS
n48	30	10	646332	DFT-s-OFDM PI/2 BPSK	24/0	8.5904	9.655	PASS
n48	30	10	646332	DFT-s-OFDM QPSK	24/0	8.6163	9.539	PASS
n48	30	10	646332	DFT-s-OFDM 16QAM	24/0	8.5959	9.924	PASS
n48	30	10	646332	DFT-s-OFDM 64QAM	24/0	8.6008	9.535	PASS
n48	30	10	646332	DFT-s-OFDM 256QAM	24/0	8.6081	9.643	PASS
n48	30	10	646332	CP-OFDM QPSK	24/0	8.5896	9.699	PASS

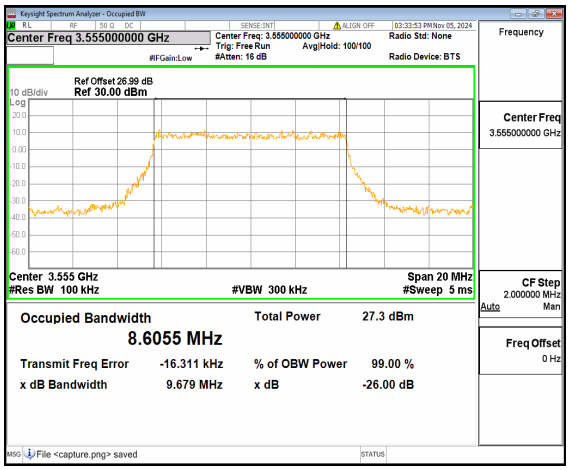
n48	30	20	637334	DFT-s-OFDM PI/2 BPSK	50/0	17.817	19.218	PASS
n48	30	20	637334	DFT-s-OFDM QPSK	50/0	17.831	19.156	PASS
n48	30	20	637334	DFT-s-OFDM 16QAM	50/0	17.844	19.378	PASS
n48	30	20	637334	DFT-s-OFDM 64QAM	50/0	17.812	19.205	PASS
n48	30	20	637334	DFT-s-OFDM 256QAM	50/0	17.800	19.118	PASS
n48	30	20	637334	CP-OFDM QPSK	51/0	17.883	19.666	PASS
n48	30	20	641666	DFT-s-OFDM PI/2 BPSK	50/0	17.766	19.050	PASS
n48	30	20	641666	DFT-s-OFDM QPSK	50/0	17.790	18.783	PASS
n48	30	20	641666	DFT-s-OFDM 16QAM	50/0	17.852	19.406	PASS
n48	30	20	641666	DFT-s-OFDM 64QAM	50/0	17.809	18.956	PASS
n48	30	20	641666	DFT-s-OFDM 256QAM	50/0	17.830	18.947	PASS
n48	30	20	641666	CP-OFDM QPSK	51/0	17.808	19.176	PASS
n48	30	20	646000	DFT-s-OFDM PI/2 BPSK	50/0	17.821	19.334	PASS
n48	30	20	646000	DFT-s-OFDM QPSK	50/0	17.793	18.951	PASS
n48	30	20	646000	DFT-s-OFDM 16QAM	50/0	17.813	19.224	PASS
n48	30	20	646000	DFT-s-OFDM 64QAM	50/0	17.812	19.048	PASS
n48	30	20	646000	DFT-s-OFDM 256QAM	50/0	17.802	19.081	PASS
n48	30	20	646000	CP-OFDM QPSK	51/0	17.835	19.445	PASS
n48	30	30	637668	DFT-s-OFDM PI/2 BPSK	75/0	26.784	28.495	PASS
n48	30	30	637668	DFT-s-OFDM QPSK	75/0	26.791	28.758	PASS

n48	30	30	637668	DFT-s-OFDM 16QAM	75/0	26.800	28.410	PASS
n48	30	30	637668	DFT-s-OFDM 64QAM	75/0	26.796	28.536	PASS
n48	30	30	637668	DFT-s-OFDM 256QAM	75/0	26.762	28.375	PASS
n48	30	30	637668	CP-OFDM QPSK	78/0	26.791	28.707	PASS
n48	30	30	641666	DFT-s-OFDM PI/2 BPSK	75/0	26.783	28.136	PASS
n48	30	30	641666	DFT-s-OFDM QPSK	75/0	26.785	28.246	PASS
n48	30	30	641666	DFT-s-OFDM 16QAM	75/0	26.765	28.434	PASS
n48	30	30	641666	DFT-s-OFDM 64QAM	75/0	26.804	28.245	PASS
n48	30	30	641666	DFT-s-OFDM 256QAM	75/0	26.796	28.471	PASS
n48	30	30	641666	CP-OFDM QPSK	78/0	26.792	28.453	PASS
n48	30	30	645666	DFT-s-OFDM PI/2 BPSK	75/0	26.762	28.247	PASS
n48	30	30	645666	DFT-s-OFDM QPSK	75/0	26.780	28.727	PASS
n48	30	30	645666	DFT-s-OFDM 16QAM	75/0	26.800	28.578	PASS
n48	30	30	645666	DFT-s-OFDM 64QAM	75/0	26.767	28.522	PASS
n48	30	30	645666	DFT-s-OFDM 256QAM	75/0	26.793	28.311	PASS
n48	30	30	645666	CP-OFDM QPSK	78/0	26.797	28.831	PASS
n48	30	40	638000	DFT-s-OFDM PI/2 BPSK	100/0	35.732	37.613	PASS
n48	30	40	638000	DFT-s-OFDM QPSK	100/0	35.736	37.696	PASS
n48	30	40	638000	DFT-s-OFDM 16QAM	100/0	35.764	37.708	PASS
n48	30	40	638000	DFT-s-OFDM 64QAM	100/0	35.745	37.675	PASS

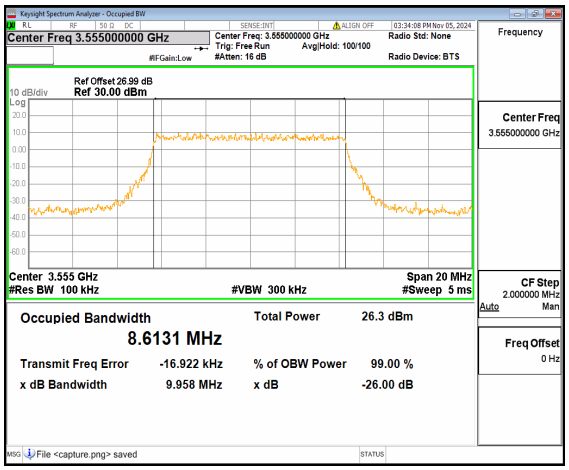
n48	30	40	638000	DFT-s-OFDM 256QAM	100/0	35.741	37.356	PASS
n48	30	40	638000	CP-OFDM QPSK	106/0	35.619	37.677	PASS
n48	30	40	641666	DFT-s-OFDM PI/2 BPSK	100/0	35.789	37.812	PASS
n48	30	40	641666	DFT-s-OFDM QPSK	100/0	35.721	37.341	PASS
n48	30	40	641666	DFT-s-OFDM 16QAM	100/0	35.726	37.676	PASS
n48	30	40	641666	DFT-s-OFDM 64QAM	100/0	35.812	37.881	PASS
n48	30	40	641666	DFT-s-OFDM 256QAM	100/0	35.697	37.845	PASS
n48	30	40	641666	CP-OFDM QPSK	106/0	35.635	37.338	PASS
n48	30	40	645332	DFT-s-OFDM PI/2 BPSK	100/0	35.696	37.505	PASS
n48	30	40	645332	DFT-s-OFDM QPSK	100/0	35.716	37.492	PASS
n48	30	40	645332	DFT-s-OFDM 16QAM	100/0	35.750	37.513	PASS
n48	30	40	645332	DFT-s-OFDM 64QAM	100/0	35.755	37.521	PASS
n48	30	40	645332	DFT-s-OFDM 256QAM	100/0	35.735	37.514	PASS
n48	30	40	645332	CP-OFDM QPSK	106/0	35.639	37.359	PASS



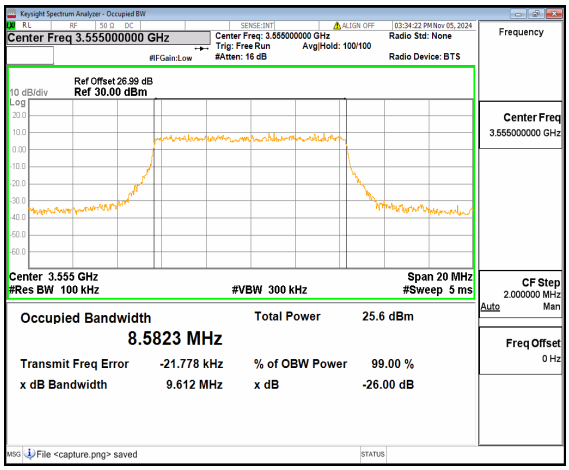
n48 10M DFT-s-OFDM BPSK Outer_Full Low



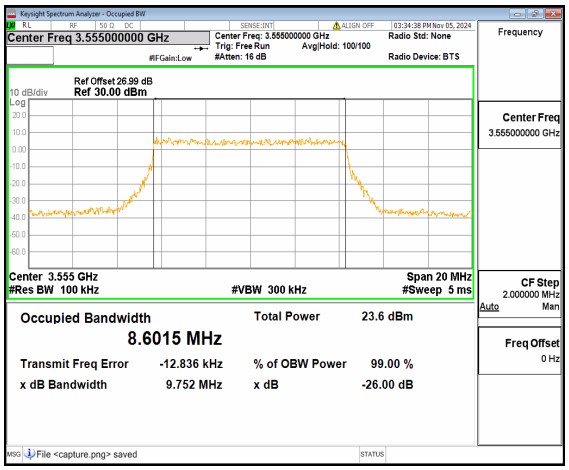
n48 10M DFT-s-OFDM QPSK Outer_Full Low



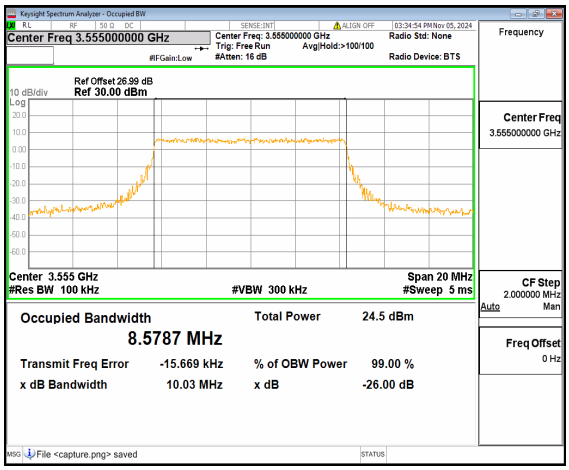
n48 10M DFT-s-OFDM 16QAM Outer_Full Low



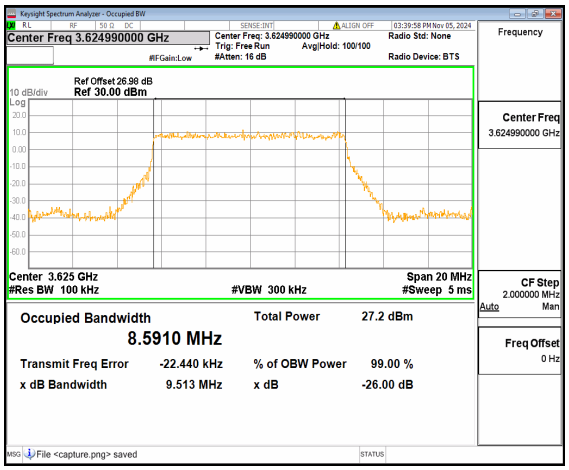
n48 10M DFT-s-OFDM 64QAM Outer_Full Low



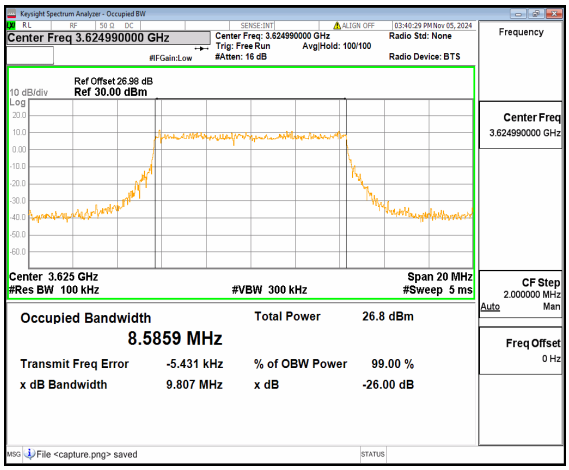
n48 10M DFT-s-OFDM 256QAM Outer_Full Low



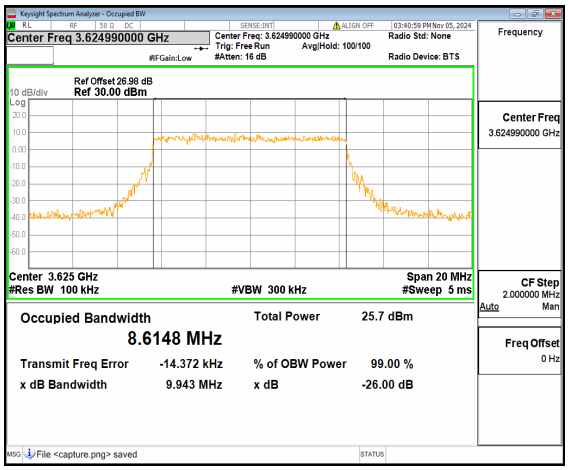
n48 10M CP-OFDM QPSK Outer_Full Low



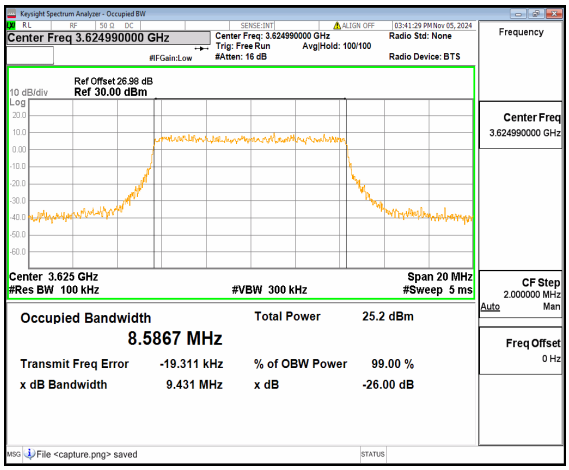
n48 10M DFT-s-OFDM BPSK Outer_Full Mid



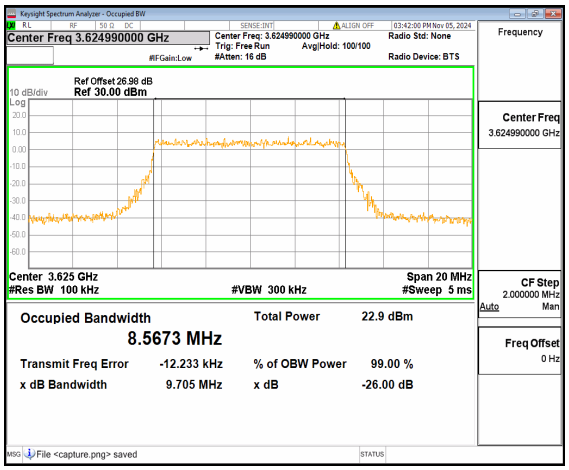
n48 10M DFT-s-OFDM QPSK Outer_Full Mid



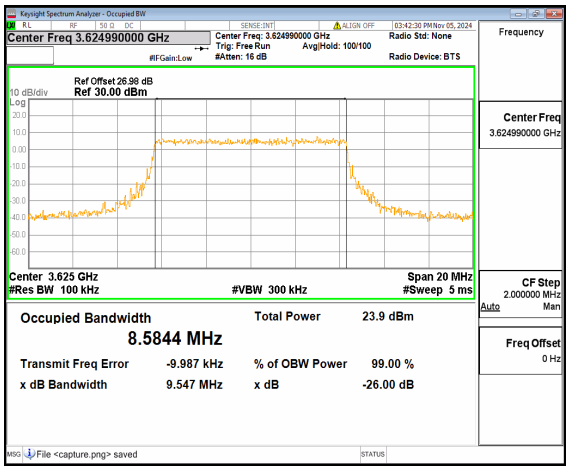
n48 10M DFT-s-OFDM 16QAM Outer_Full Mid



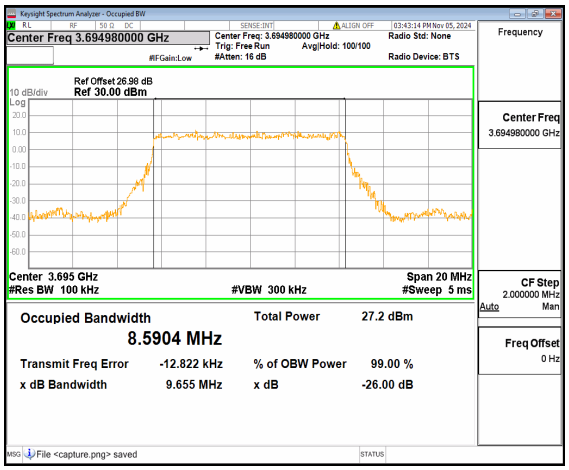
n48 10M DFT-s-OFDM 64QAM Outer_Full Mid



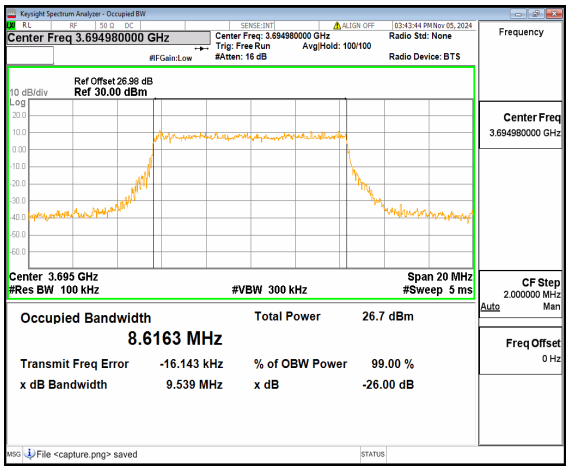
n48 10M DFT-s-OFDM 256QAM Outer_Full Mid



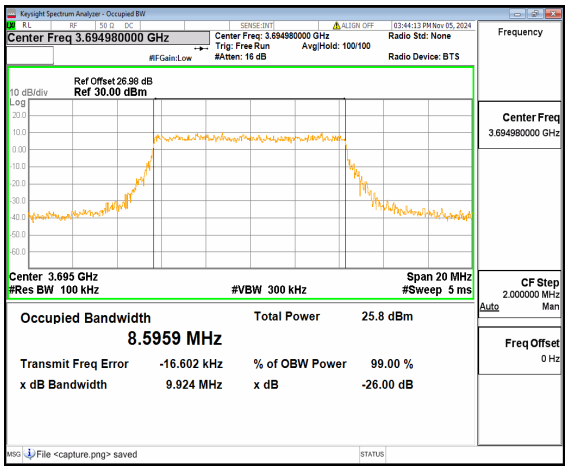
n48 10M CP-OFDM QPSK Outer_Full Mid



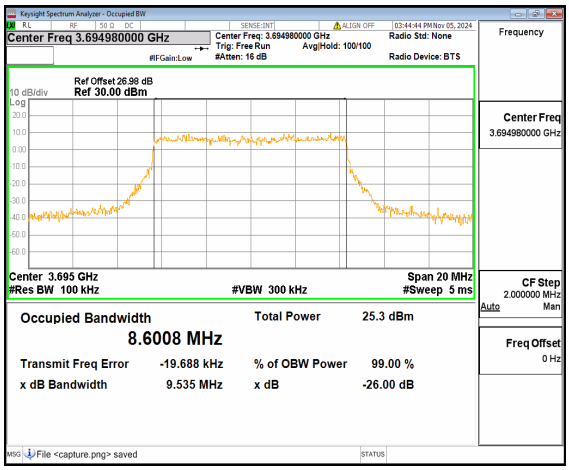
n48 10M DFT-s-OFDM BPSK Outer_Full High



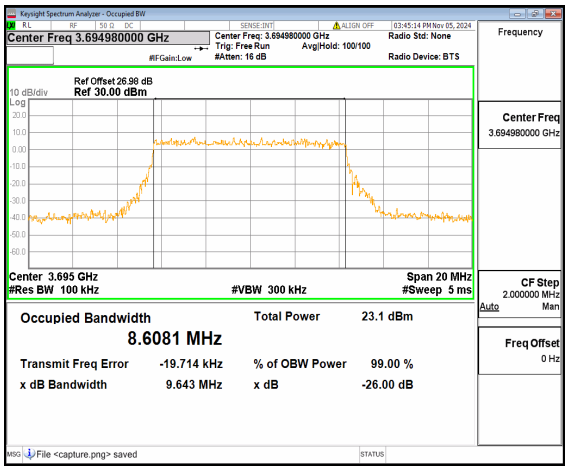
n48 10M DFT-s-OFDM QPSK Outer_Full High



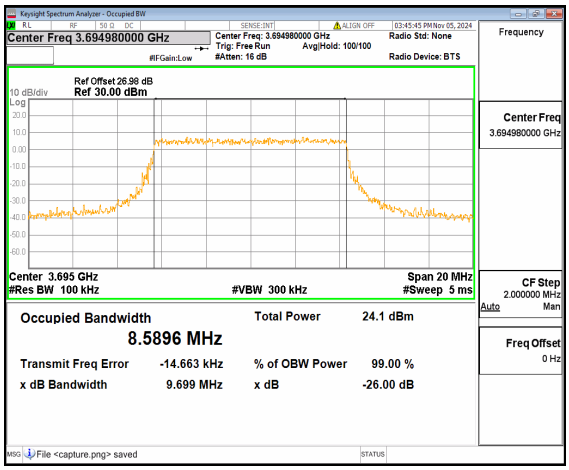
n48 10M DFT-s-OFDM 16QAM Outer_Full High



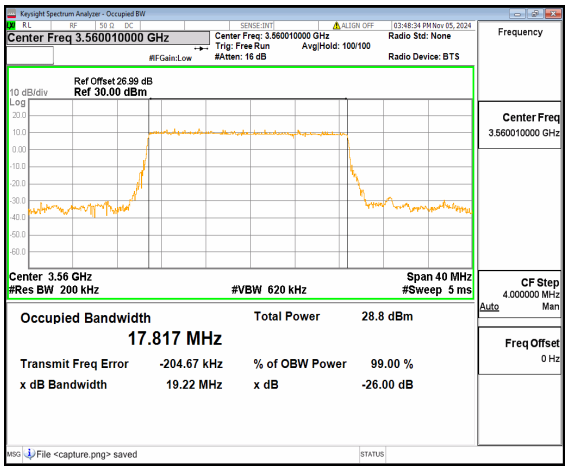
n48 10M DFT-s-OFDM 64QAM Outer_Full High



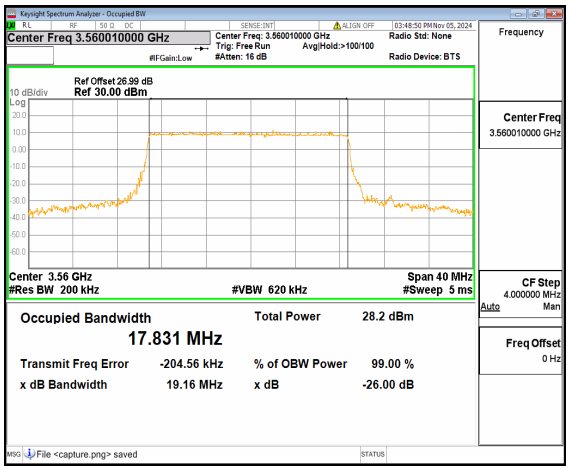
n48 10M DFT-s-OFDM 256QAM Outer_Full High



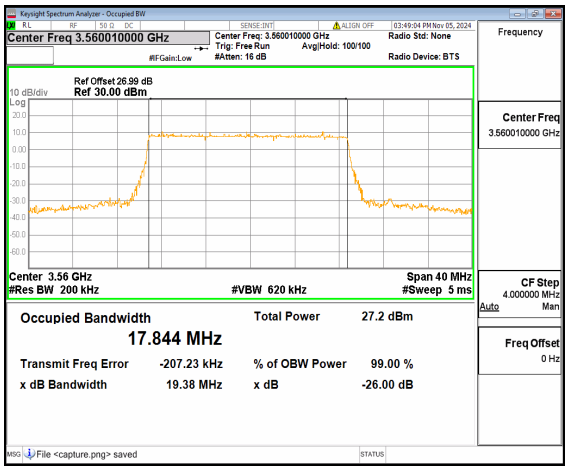
n48 10M CP-OFDM QPSK Outer_Full High



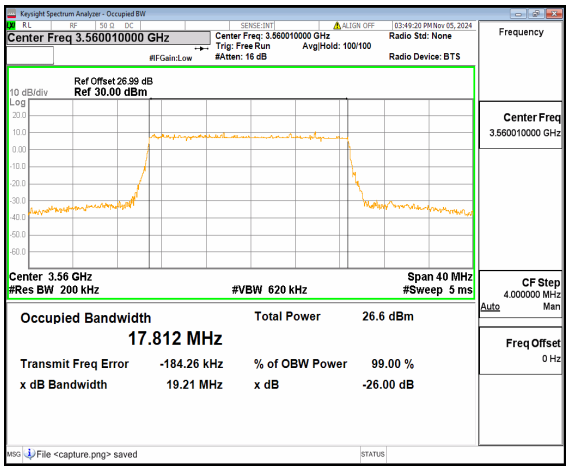
n48 20M DFT-s-OFDM BPSK Outer_Full Low



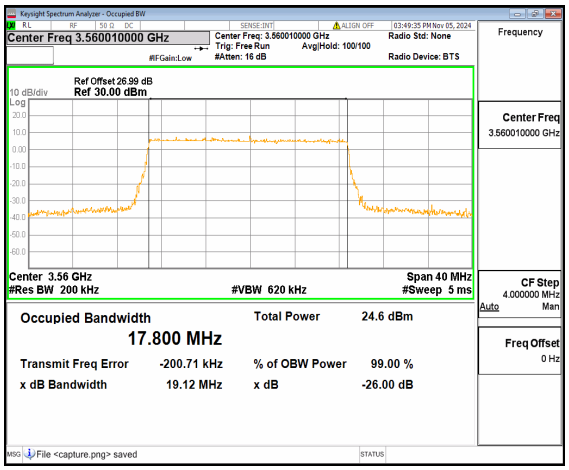
n48 20M DFT-s-OFDM QPSK Outer_Full Low



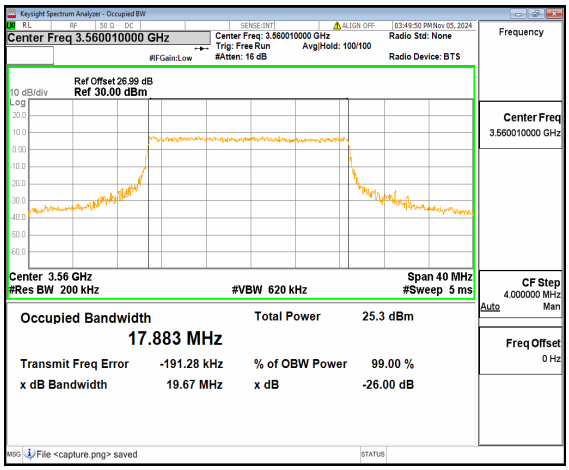
n48 20M DFT-s-OFDM 16QAM Outer_Full Low



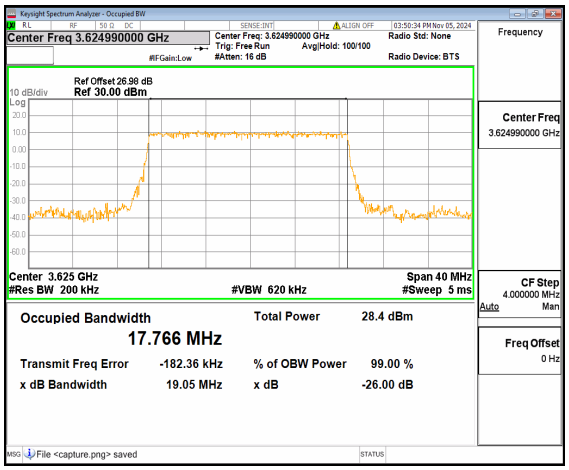
n48 20M DFT-s-OFDM 64QAM Outer_Full Low



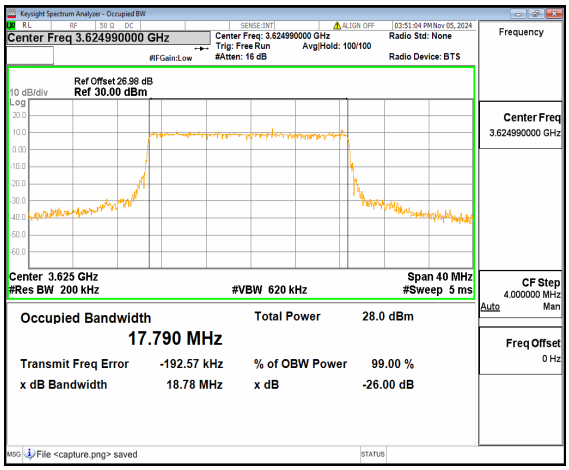
n48 20M DFT-s-OFDM 256QAM Outer_Full Low



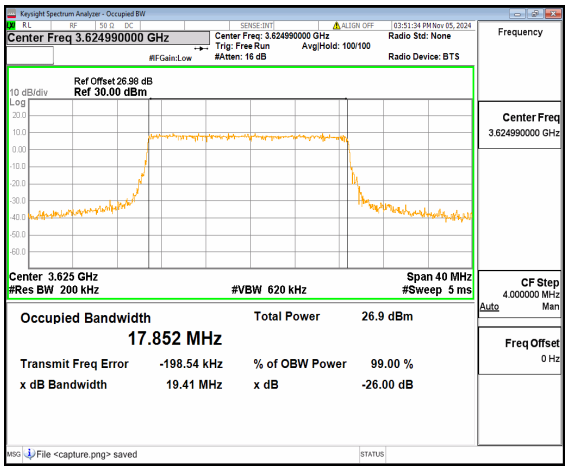
n48 20M CP-OFDM QPSK Outer_Full Low



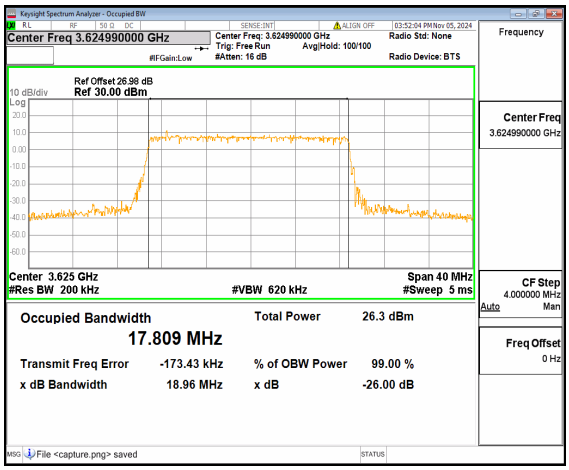
n48 20M DFT-s-OFDM BPSK Outer_Full Mid



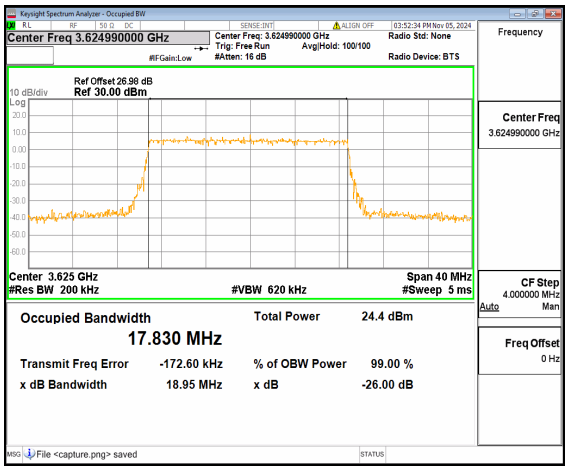
n48 20M DFT-s-OFDM QPSK Outer_Full Mid



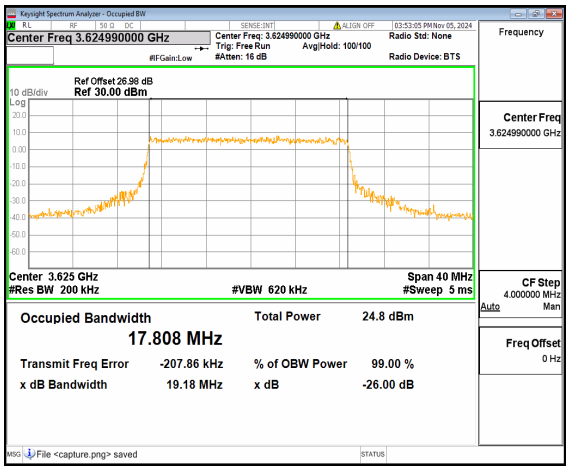
n48 20M DFT-s-OFDM 16QAM Outer_Full Mid



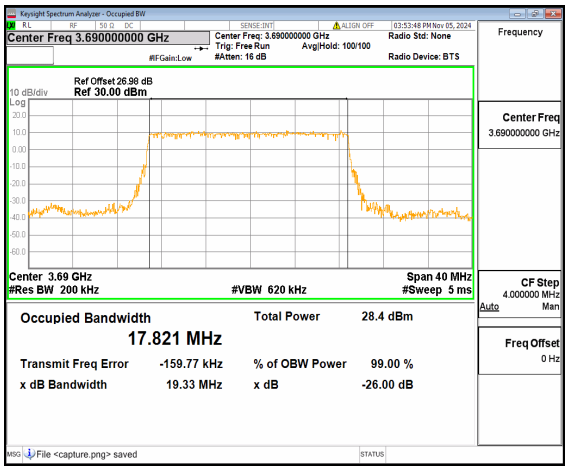
n48 20M DFT-s-OFDM 64QAM Outer_Full Mid



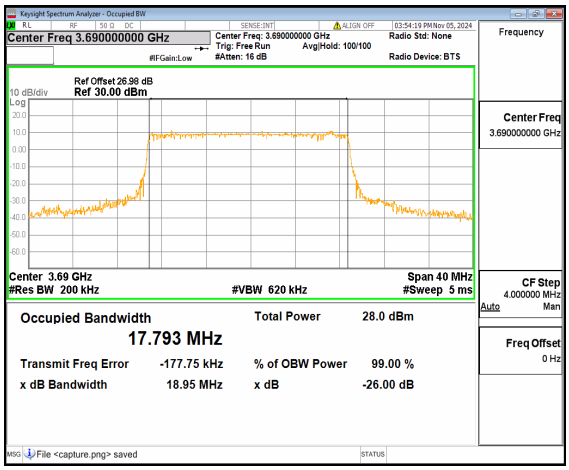
n48 20M DFT-s-OFDM 256QAM Outer_Full Mid



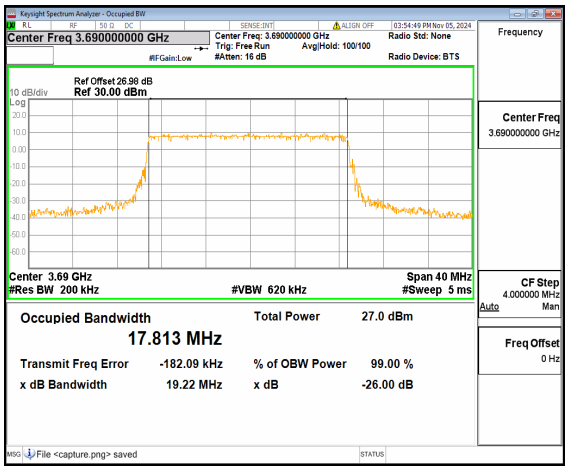
n48 20M CP-OFDM QPSK Outer_Full Mid



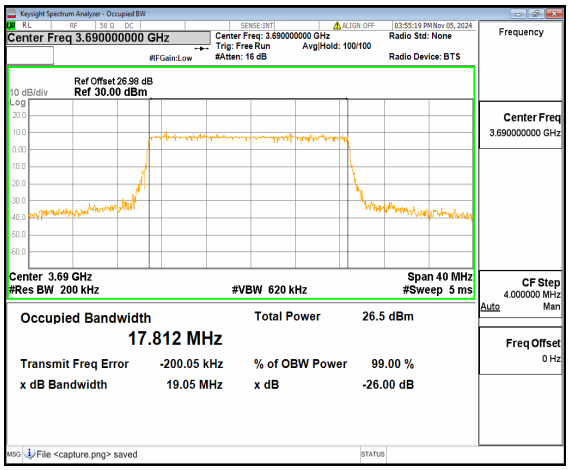
n48 20M DFT-s-OFDM BPSK Outer_Full High



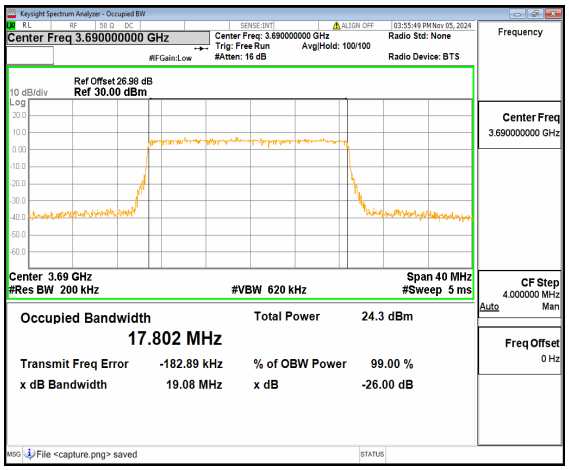
n48 20M DFT-s-OFDM QPSK Outer_Full High



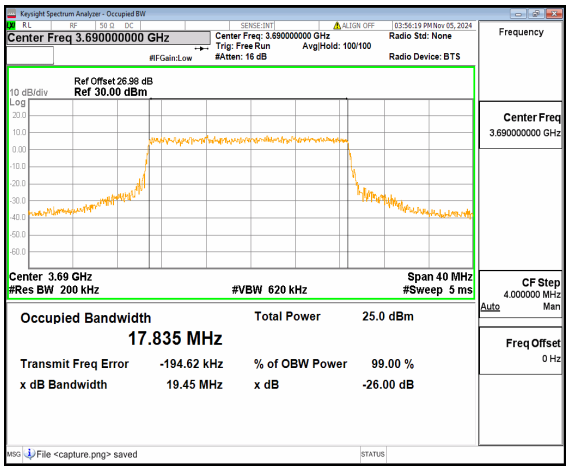
n48 20M DFT-s-OFDM 16QAM Outer_Full High



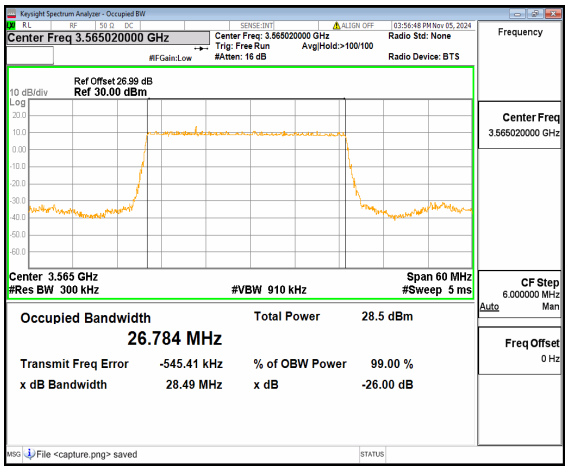
n48 20M DFT-s-OFDM 64QAM Outer_Full High



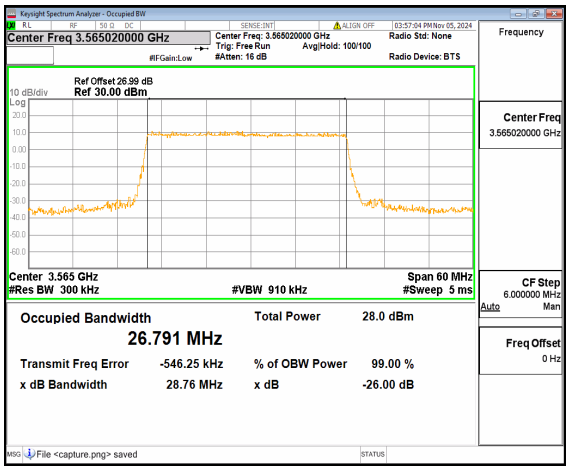
n48 20M DFT-s-OFDM 256QAM Outer_Full High



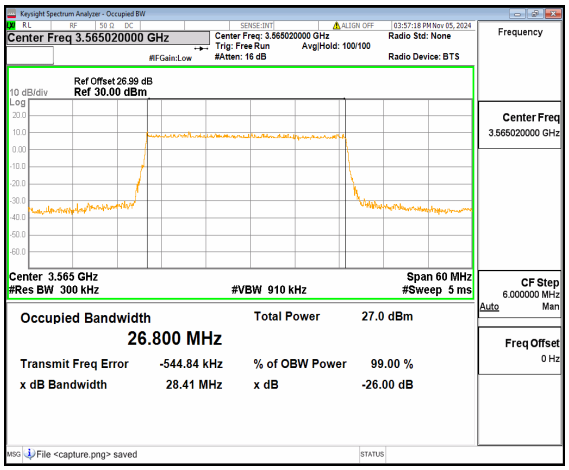
n48 20M CP-OFDM QPSK Outer_Full High



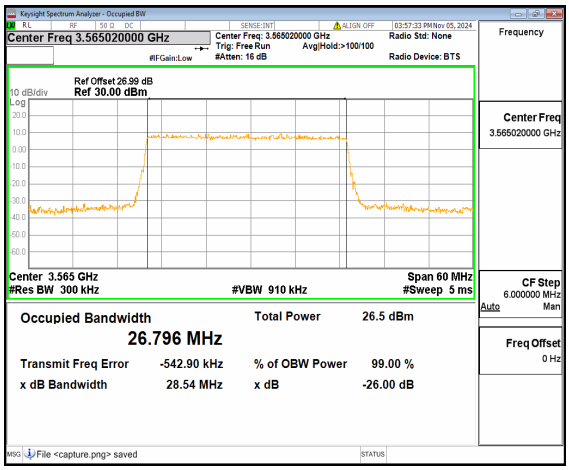
n48 30M DFT-s-OFDM BPSK Outer_Full Low



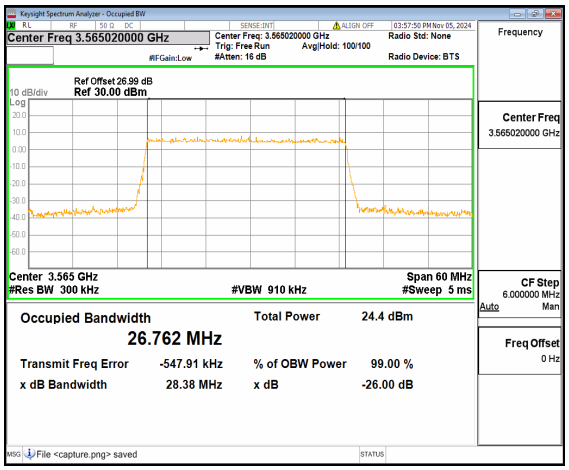
n48 30M DFT-s-OFDM QPSK Outer_Full Low



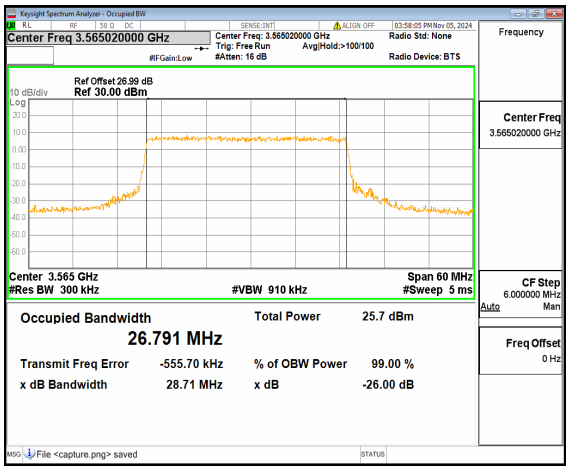
n48 30M DFT-s-OFDM 16QAM Outer_Full Low



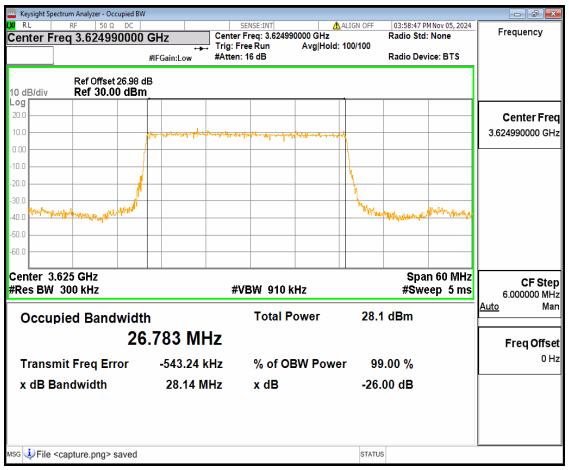
n48 30M DFT-s-OFDM 64QAM Outer_Full Low



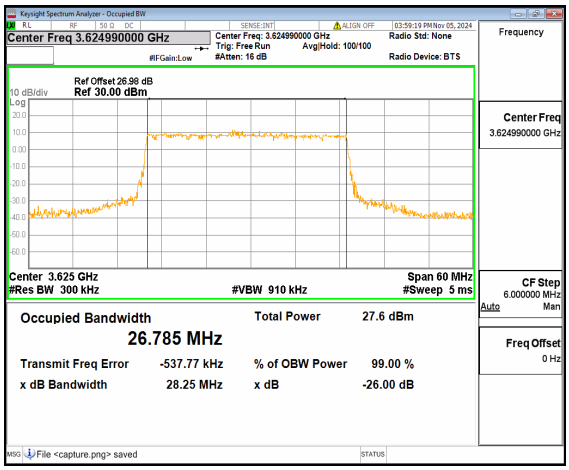
n48 30M DFT-s-OFDM 256QAM Outer_Full Low



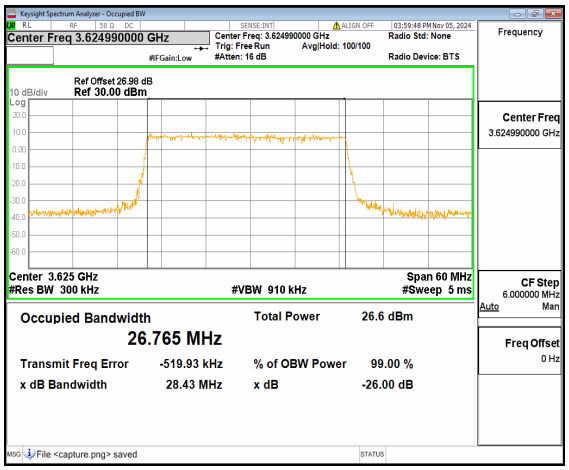
n48 30M CP-OFDM QPSK Outer_Full Low



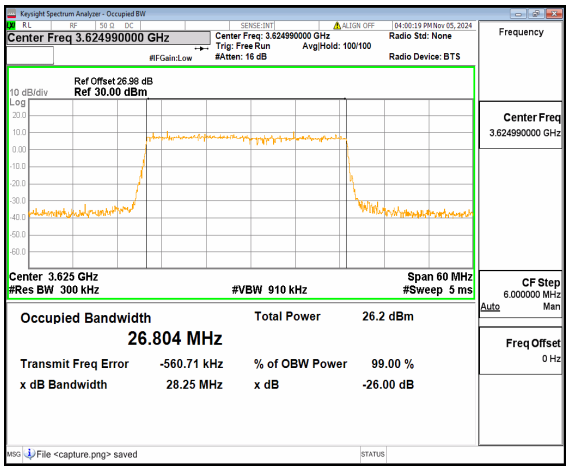
n48 30M DFT-s-OFDM BPSK Outer_Full Mid



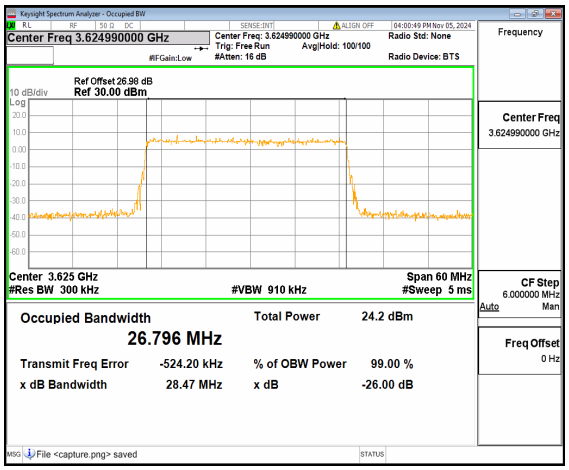
n48 30M DFT-s-OFDM QPSK Outer_Full Mid



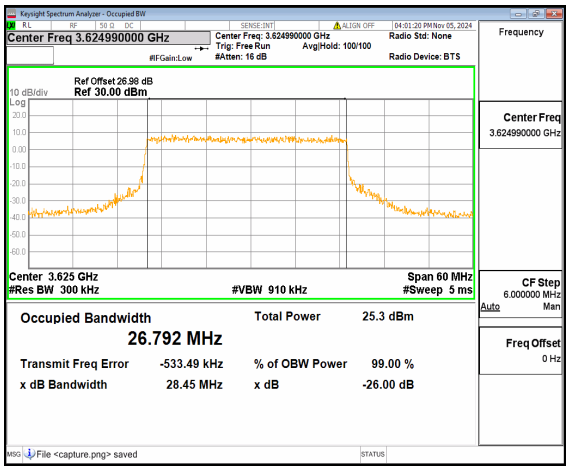
n48 30M DFT-s-OFDM 16QAM Outer_Full Mid



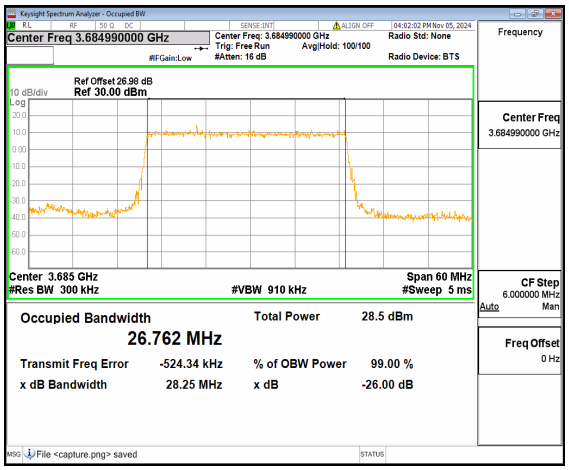
n48 30M DFT-s-OFDM 64QAM Outer_Full Mid



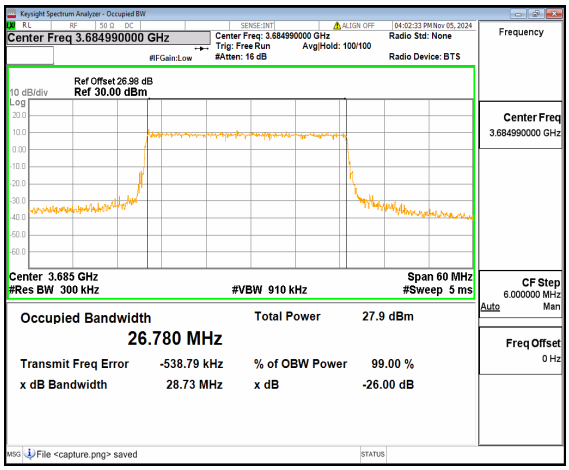
n48 30M DFT-s-OFDM 256QAM Outer_Full Mid



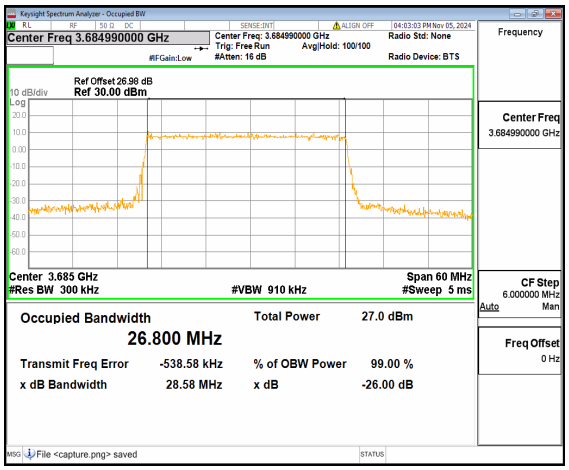
n48 30M CP-OFDM QPSK Outer_Full Mid



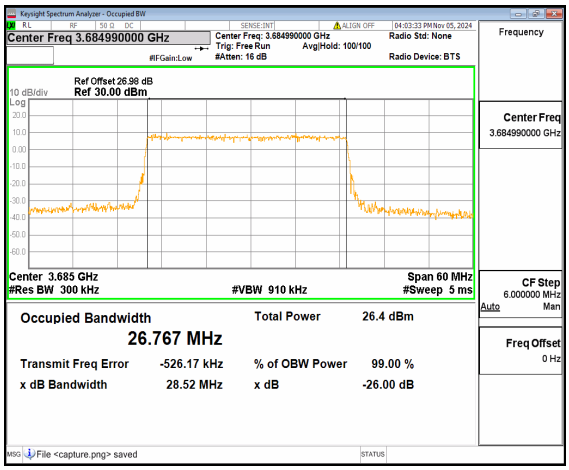
n48 30M DFT-s-OFDM BPSK Outer_Full High



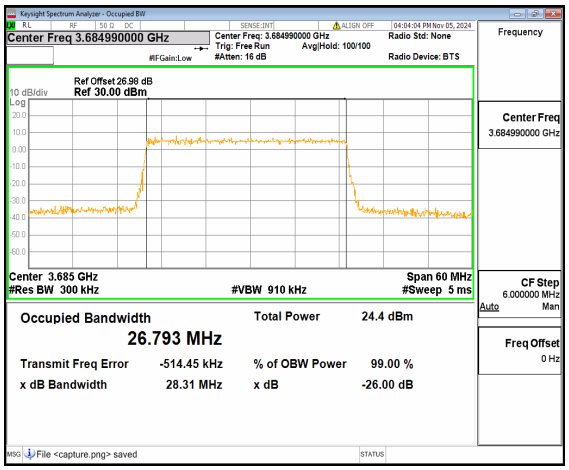
n48 30M DFT-s-OFDM QPSK Outer_Full High



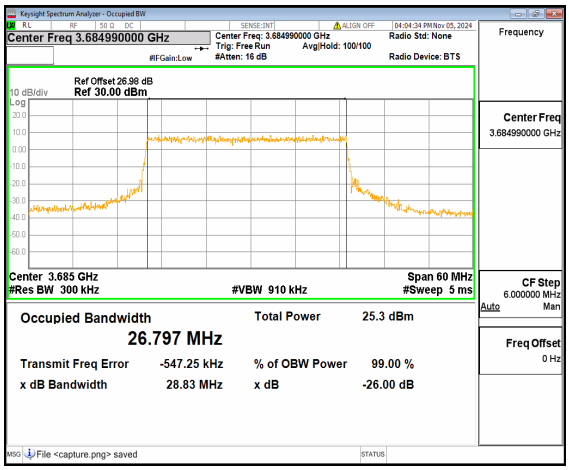
n48 30M DFT-s-OFDM 16QAM Outer_Full High



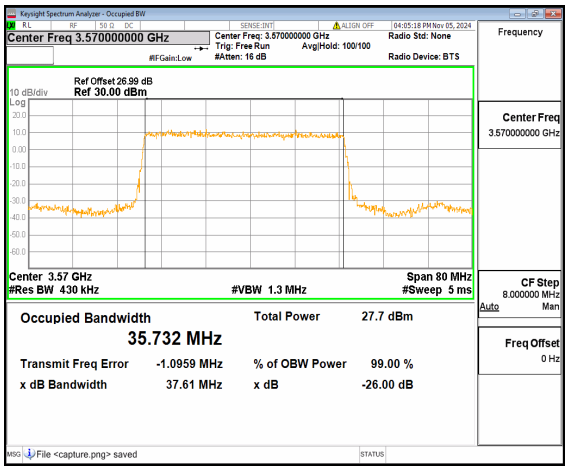
n48 30M DFT-s-OFDM 64QAM Outer_Full High



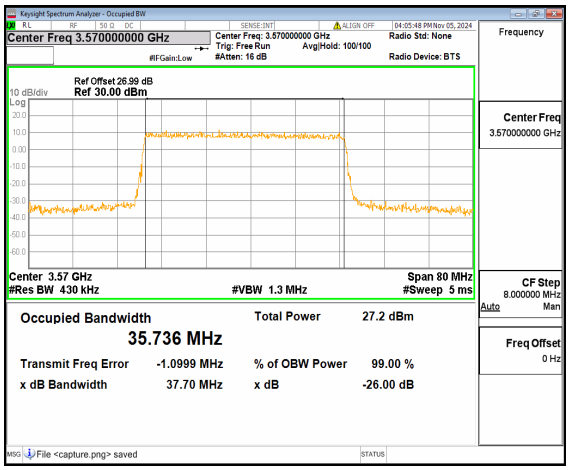
n48 30M DFT-s-OFDM 256QAM Outer_Full High



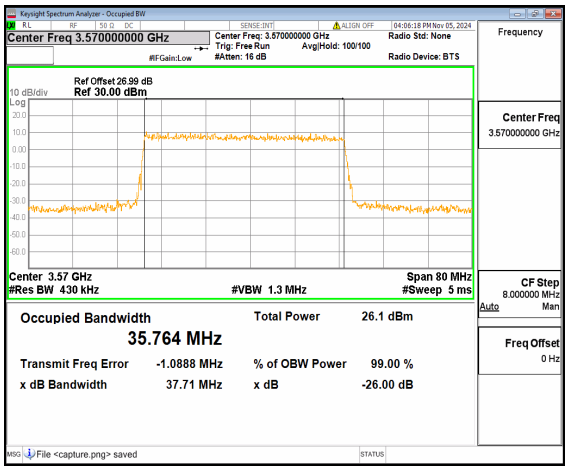
n48 30M CP-OFDM QPSK Outer_Full High



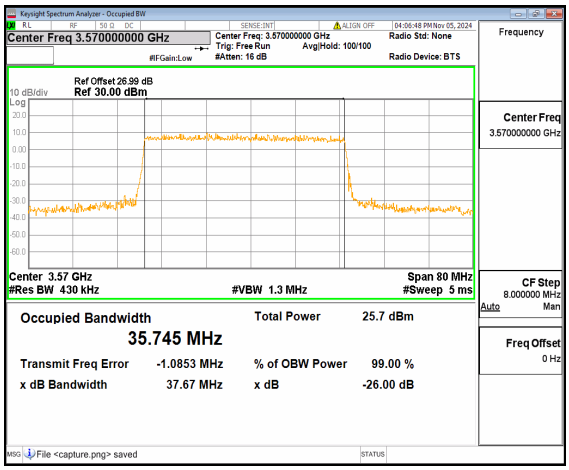
n48 40M DFT-s-OFDM BPSK Outer_Full Low



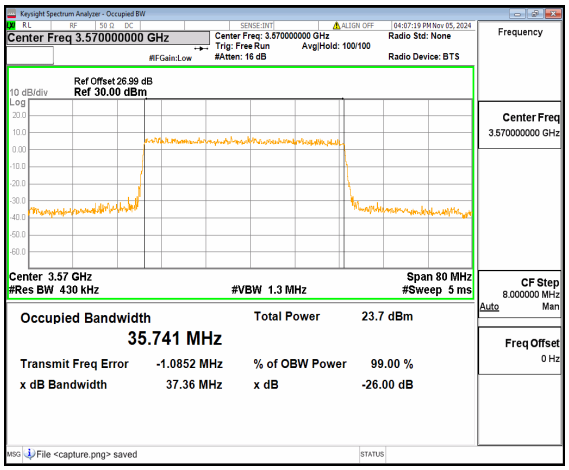
n48 40M DFT-s-OFDM QPSK Outer_Full Low



n48 40M DFT-s-OFDM 16QAM Outer_Full Low



n48 40M DFT-s-OFDM 64QAM Outer_Full Low



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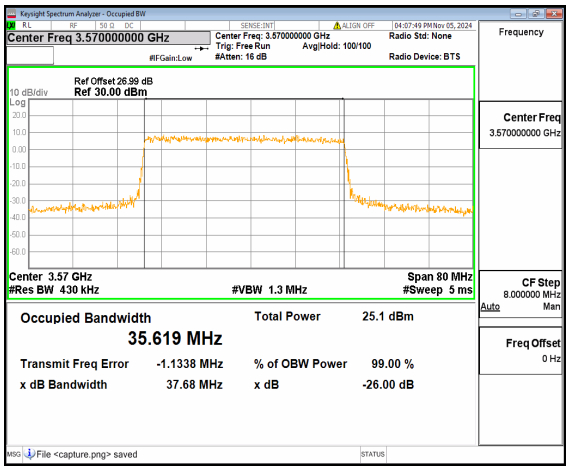
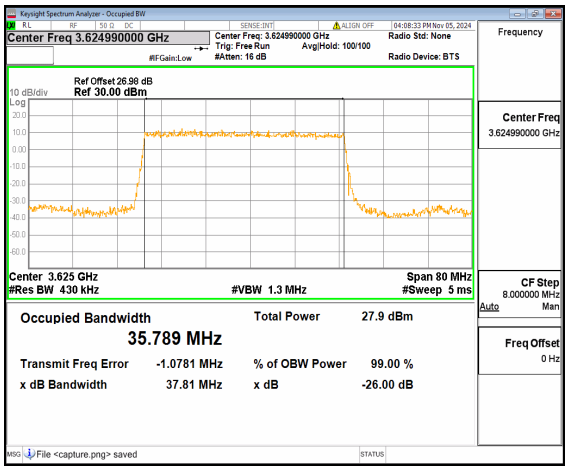
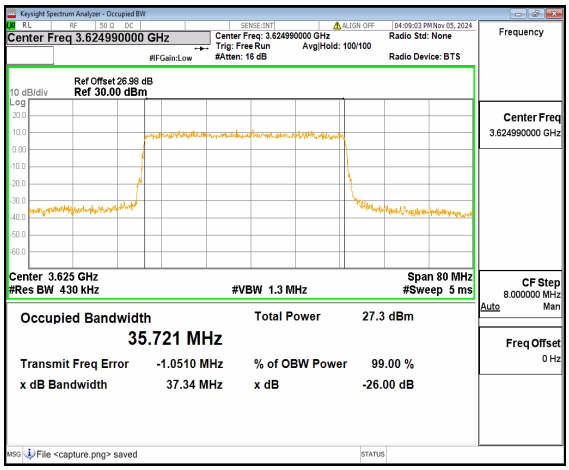


n48 40M CP-OFDM QPSK Outer_Full Low



n48 40M DFT-s-OFDM BPSK Outer_Full Mid



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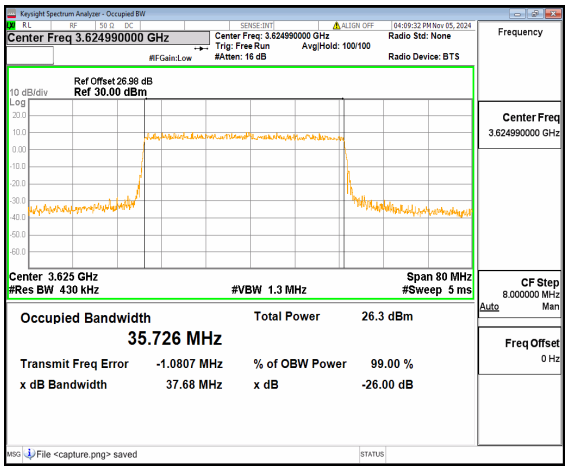
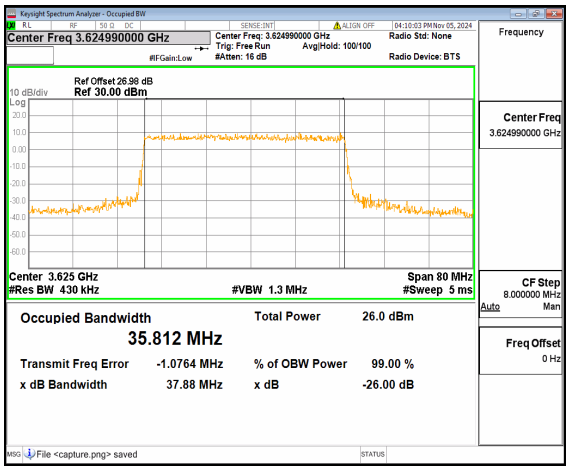
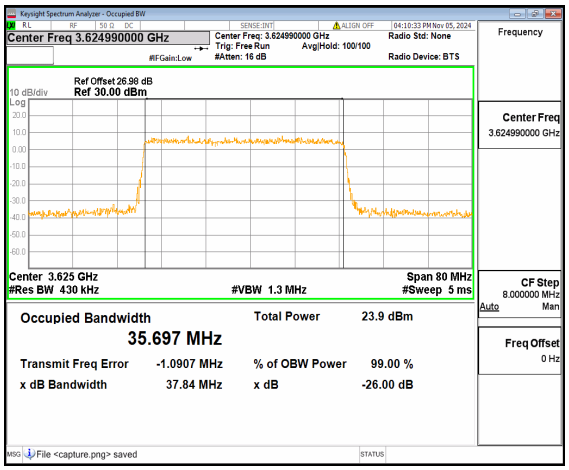


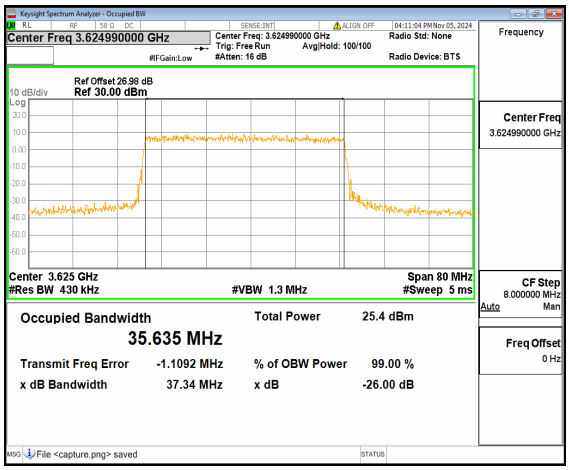
n48 40M DFT-s-OFDM 16QAM Outer_Full Mid



n48 40M DFT-s-OFDM 64QAM Outer_Full Mid



n48 40M DFT-s-OFDM 256QAM Outer_Full Mid



n48 40M CP-OFDM QPSK Outer_Full Mid