



REPORT No.: SZ6040328Y07

TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Tablet

MODEL NAME : T500B

BRAND NAME : BLU

FCC ID : YHLBLUT500B

STANDARD(S) : 47 CFR Part 2
47 CFR Part 96

RECEIPT DATE : 2026-04-27

TEST DATE : 2026-05-12 to 2026-06-15

ISSUE DATE : 2026-06-24



Edited by:

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Change History		
Version	Date	Reason for change
1.0	2026-06-24	First edition

Note: the latest revision of the report supersedes all previous versions.



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	BLU Products, Inc.
Applicant Address:	8600 NW 36th Street Suite 300 Miami, FL 33166,USA
Manufacturer:	BLU Products, Inc.
Manufacturer Address:	8600 NW 36th Street Suite 300 Miami, FL 33166,USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Tablet	
Sample No.:	7#	
Hardware Version:	1.0	
Software Version:	BLU_T500B_V16.0.01.06.01.07_FSec	
IMEI:	N/A	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
SA Band:	n48	
Power Class:	PC3:	n48
Frequency Range:	n48	Tx:3550 MHz–3700 MHz
		Rx:3550 MHz–3700 MHz
Channel Bandwidth	n48	10MHz, 15MHz, 20MHz, 30MHz, 40MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	n48	-2.10 dBi

Note 1: The EUT description presented in the report is provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer for more detailed information.



1.3. Maximum ERP/EIRP and Emission Designator

$\text{EIRP (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$\text{ERP (dBm)} = \text{EIPR (dBm)} - 2.15$

Worse case:

n48							
Bandwidth [MHz]	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	Max EIRP Average (W)	Min EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	/	8.5816	8M58G7D
	QPSK	24.28	22.18	0.165	0.158	8.6145	8M61G7D
	16QAM	/	/	/	/	8.5657	8M57W7D
	64QAM	/	/	/	/	8.6368	8M64W7D
	256QAM	/	/	/	/	8.5621	8M56W7D
	CP-QPSK	/	/	/	/	8.5805	8M58G7D
15	PI/2 BPSK	/	/	/	/	12.898	12M9G7D
	QPSK	24.32	22.22	0.167	0.158	12.885	12M9G7D
	16QAM	/	/	/	/	12.84	12M8W7D
	64QAM	/	/	/	/	12.909	12M9W7D
	256QAM	/	/	/	/	12.871	12M9W7D
	CP-QPSK	/	/	/	/	13.588	13M6G7D
20	PI/2 BPSK	/	/	/	/	17.906	17M9G7D
	QPSK	24.35	22.25	0.168	0.160	17.836	17M8G7D
	16QAM	/	/	/	/	17.854	17M9W7D
	64QAM	/	/	/	/	17.898	17M9W7D
	256QAM	/	/	/	/	17.882	17M9W7D
	CP-QPSK	/	/	/	/	18.19	18M2G7D
30	PI/2 BPSK	/	/	/	/	26.934	26M9G7D
	QPSK	24.36	22.26	0.168	0.158	26.997	27M0G7D



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	16QAM	/	/	/	/	26.888	26M9W7D
	64QAM	/	/	/	/	26.878	26M9W7D
	256QAM	/	/	/	/	26.88	26M9W7D
	CP-QPSK	/	/	/	/	27.871	27M9G7D
40	PI/2	24.48	22.38	0.173	0.143	35.885	35M9G7D
	QPSK	24.57	22.47	0.177	0.130	35.788	35M8G7D
	16QAM	23.48	21.38	0.137	0.128	35.826	35M8W7D
	64QAM	22.39	20.29	0.107	0.092	35.893	35M9W7D
	256QAM	20.47	18.37	0.069	0.062	35.839	35M8W7D
	CP-QPSK	22.9	20.80	0.120	0.111	37.899	37M9G7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to 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
5	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE

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	No limit	N/A



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

Test Item	Test Engineer	Result	Remark
Transmitter Conducted Output Power and ERP/EIRP	Gan Jing ^[3]	PASS	/
Occupied Bandwidth	Gan Jing	PASS	/
Frequency Stability	Gan Jing	PASS	/
Peak to Average Ratio	Gan Jing	PASS	/
Conducted Spurious Emissions	Gan Jing	PASS	/
Band Edge	Gan Jing	PASS	/
Radiated Spurious Emissions	Gao Jianrou	PASS	/
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: Any additions, deviation, or exclusions from the method shall be noted in the "Remark". Note 3: The antenna gain of EUT presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information.			



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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 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 conducted RF output power measurements were made at the RF output terminals of the EUT using the powermeter of the Universal Radio Communication tester MT8000A and MT8821C, selecting maximum transmission power of the EUT and different modes of modulation.

The maximum equivalent isotropically radiated power (e.i.r.p.) is calculated by adding the declared maximum antenna gain (dBi).



The maximum effective radiated power e.r.p. is calculated from the maximum equivalent isotropically radiated power

(e.i.r.p.) by subtracting 2.15 dB:

$$E.R.P. = E..R.P. - 2.15 \text{ dB}$$

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2, ANSI/TIA-603-E-2016 and ANSI C63.26-2015 Section 5.2.

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

$$ERP \text{ or } EIRP = P_{Meas} + GT$$

Where:

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

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

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

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

2.1.4. Conducted Output Power

Note: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band; with only the worst cases represented in the report except for the maximum bandwidths.

n48						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel
Channel				638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98
40	DFT-s-OFDM PI/2 BPSK	1	1	24.12	24.48	24.13
40		1	53	24.32	24.31	24.18
40		1	104	24.41	24.36	24.21
40		50	1	23.76	23.83	23.65
40		50	25	24.31	24.30	24.17



40		50	50	23.80	23.82	23.67
40		100	0	23.80	23.78	23.65
40	DFT-s-OFDM QPSK	1	1	24.41	24.57	24.47
40		1	53	24.32	24.33	24.14
40		1	104	24.38	24.33	24.16
40		50	1	23.25	23.32	23.24
40		50	25	24.45	24.51	24.41
40		50	50	23.30	23.31	23.25
40		100	0	23.44	23.55	23.42
40						
40	DFT-s-OFDM 16QAM	1	1	23.17	23.48	23.18
40	DFT-s-OFDM 64QAM	1	1	22.01	22.39	21.76
40	DFT-s-OFDM 256QAM	1	1	20.08	20.47	20.03
40	CP-OFDM QPSK	1	1	22.57	22.90	22.61
40	CP-OFDM 16QAM	1	1	22.39	22.73	22.28
40	CP-OFDM 64QAM	1	1	20.59	20.98	20.59
40	CP-OFDM 256QAM	1	1	18.00	18.36	17.89
Channel				637668	641666	645666
Frequency (MHz)				3565.02	3624.99	3684.99
30	DFT-s-OFDM QPSK	1	1	24.10	24.36	24.12
Channel				637334	641666	646000
Frequency (MHz)				3560.01	3624.99	3690
20	DFT-s-OFDM QPSK	1	1	24.14	24.35	24.18
Channel				637168	641666	646166
Frequency (MHz)				3557.52	3624.99	3692.49
15	DFT-s-OFDM QPSK	1	1	24.09	24.32	24.16
Channel				637000	641666	646332
Frequency (MHz)				3555	3624.99	3694.98
10	DFT-s-OFDM QPSK	1	1	24.13	24.28	24.10



Effective Radiated Power and Effective Isotropic Radiated Power:

Worse case:

n48									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low Channel	Mid Channel	Mid Channel	High Channel	High Channel
Channel				638000	638000	641666	641666	645332	645332
Frequency (MHz)				3570	3570	3624.99	3624.99	3679.98	3679.98
40	DFT-s-OFDM PI/2 BPSK	1	1	22.02	0.159	22.38	0.173	22.03	0.160
40		1	53	22.22	0.167	22.21	0.166	22.08	0.161
40		1	104	22.31	0.170	22.26	0.168	22.11	0.163
40		50	1	21.66	0.147	21.73	0.149	21.55	0.143
40		50	25	22.21	0.166	22.20	0.166	22.07	0.161
40		50	50	21.70	0.148	21.72	0.149	21.57	0.144
40		100	0	21.70	0.148	21.68	0.147	21.55	0.143
40	DFT-s-OFDM QPSK	1	1	22.31	0.170	22.47	0.177	22.37	0.173
40		1	53	22.22	0.167	22.23	0.167	22.04	0.160
40		1	104	22.28	0.169	22.23	0.167	22.06	0.161
40		50	1	21.15	0.130	21.22	0.132	21.14	0.130
40		50	25	22.35	0.172	22.41	0.174	22.31	0.170
40		50	50	21.20	0.132	21.21	0.132	21.15	0.130
40		100	0	21.34	0.136	21.45	0.140	21.32	0.136
40	DFT-s-OFDM 16QAM	1	1	21.07	0.128	21.38	0.137	21.08	0.128
40	DFT-s-OFDM 64QAM	1	1	19.91	0.098	20.29	0.107	19.66	0.092
40	DFT-s-OFDM 256QAM	1	1	17.98	0.063	18.37	0.069	17.93	0.062
40	CP-OFDM QPSK	1	1	20.47	0.111	20.80	0.120	20.51	0.112
40	CP-OFDM 16QAM	1	1	20.29	0.107	20.63	0.116	20.18	0.104
40	CP-OFDM 64QAM	1	1	18.49	0.071	18.88	0.077	18.49	0.071
40	CP-OFDM 256QAM	1	1	15.90	0.039	16.26	0.042	15.79	0.038
Channel				637668	637668	641666	641666	645666	645666



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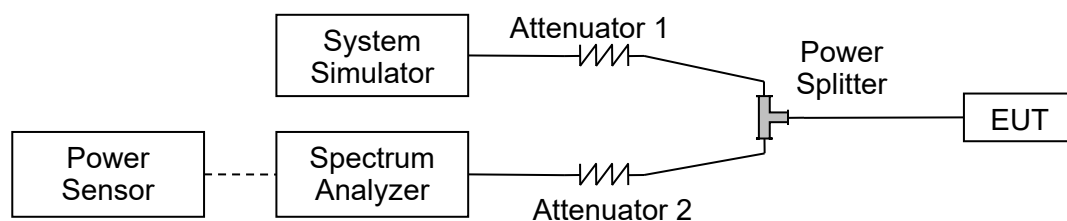
Frequency (MHz)					3565.02	3565.02	3624.99	3624.99	3684.99	3684.99
30	DFT-s-OFDM	QPSK	1	1	22.00	0.158	22.26	0.168	22.02	0.159
Channel					637334	637334	641666	641666	646000	646000
Frequency (MHz)					3560.01	3560.01	3624.99	3624.99	3690	3690
20	DFT-s-OFDM	QPSK	1	1	22.04	0.160	22.25	0.168	22.08	0.161
Channel					637168	637168	641666	641666	646166	646166
Frequency (MHz)					3557.52	3557.52	3624.99	3624.99	3692.49	3692.49
15	DFT-s-OFDM	QPSK	1	1	21.99	0.158	22.22	0.167	22.06	0.161
Channel					637000	637000	641666	641666	646332	646332
Frequency (MHz)					3555	3555	3624.99	3624.99	3694.98	3694.98
10	DFT-s-OFDM	QPSK	1	1	22.03	0.160	22.18	0.165	22.00	0.158

2.2. Occupied Bandwidth

2.2.1. Requirement

According to RSS-Gen 6.7, 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, ANSI/TIA-603-E-2016 and ANSI C63.26-2015 Section 5.4.

2.2.4. Test Result



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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	8.5816	9.263	PASS
n48	30	10	637000	DFT-s-OFDM QPSK	24/0	8.5717	9.208	PASS
n48	30	10	637000	DFT-s-OFDM 16QAM	24/0	8.5657	9.257	PASS
n48	30	10	637000	DFT-s-OFDM 64QAM	24/0	8.5838	9.305	PASS
n48	30	10	637000	DFT-s-OFDM 256QAM	24/0	8.5621	9.146	PASS
n48	30	10	637000	CP-OFDM QPSK	24/0	8.5726	9.350	PASS
n48	30	10	641666	DFT-s-OFDM PI/2 BPSK	24/0	8.5428	9.228	PASS
n48	30	10	641666	DFT-s-OFDM QPSK	24/0	8.5814	9.245	PASS
n48	30	10	641666	DFT-s-OFDM 16QAM	24/0	8.5535	9.155	PASS
n48	30	10	641666	DFT-s-OFDM 64QAM	24/0	8.5923	9.078	PASS
n48	30	10	641666	DFT-s-OFDM 256QAM	24/0	8.5391	9.170	PASS
n48	30	10	641666	CP-OFDM QPSK	24/0	8.5786	9.213	PASS
n48	30	10	646332	DFT-s-OFDM PI/2 BPSK	24/0	8.5707	9.285	PASS
n48	30	10	646332	DFT-s-OFDM QPSK	24/0	8.6145	9.314	PASS
n48	30	10	646332	DFT-s-OFDM 16QAM	24/0	8.5067	9.242	PASS
n48	30	10	646332	DFT-s-OFDM 64QAM	24/0	8.6368	9.325	PASS
n48	30	10	646332	DFT-s-OFDM 256QAM	24/0	8.5590	9.162	PASS
n48	30	10	646332	CP-OFDM QPSK	24/0	8.5805	9.360	PASS



n48	30	15	637168	DFT-s-OFDM PI/2 BPSK	36/0	12.857	13.779	PASS
n48	30	15	637168	DFT-s-OFDM QPSK	36/0	12.849	13.808	PASS
n48	30	15	637168	DFT-s-OFDM 16QAM	36/0	12.840	13.577	PASS
n48	30	15	637168	DFT-s-OFDM 64QAM	36/0	12.799	13.629	PASS
n48	30	15	637168	DFT-s-OFDM 256QAM	36/0	12.814	13.654	PASS
n48	30	15	637168	CP-OFDM QPSK	38/0	13.562	14.374	PASS
n48	30	15	641666	DFT-s-OFDM PI/2 BPSK	36/0	12.847	13.622	PASS
n48	30	15	641666	DFT-s-OFDM QPSK	36/0	12.812	13.601	PASS
n48	30	15	641666	DFT-s-OFDM 16QAM	36/0	12.802	13.538	PASS
n48	30	15	641666	DFT-s-OFDM 64QAM	36/0	12.909	13.762	PASS
n48	30	15	641666	DFT-s-OFDM 256QAM	36/0	12.832	13.684	PASS
n48	30	15	641666	CP-OFDM QPSK	38/0	13.588	14.380	PASS
n48	30	15	646166	DFT-s-OFDM PI/2 BPSK	36/0	12.898	13.710	PASS
n48	30	15	646166	DFT-s-OFDM QPSK	36/0	12.885	13.566	PASS
n48	30	15	646166	DFT-s-OFDM 16QAM	36/0	12.792	13.535	PASS
n48	30	15	646166	DFT-s-OFDM 64QAM	36/0	11.027	13.722	PASS
n48	30	15	646166	DFT-s-OFDM 256QAM	36/0	12.871	13.546	PASS
n48	30	15	646166	CP-OFDM QPSK	38/0	13.549	14.383	PASS
n48	30	20	637334	DFT-s-OFDM PI/2 BPSK	50/0	17.899	18.808	PASS



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n48	30	20	637334	DFT-s-OFDM QPSK	50/0	17.836	18.865	PASS
n48	30	20	637334	DFT-s-OFDM 16QAM	50/0	17.847	18.796	PASS
n48	30	20	637334	DFT-s-OFDM 64QAM	50/0	17.898	18.816	PASS
n48	30	20	637334	DFT-s-OFDM 256QAM	50/0	17.818	18.858	PASS
n48	30	20	637334	CP-OFDM QPSK	51/0	18.183	19.143	PASS
n48	30	20	641666	DFT-s-OFDM PI/2 BPSK	50/0	17.843	18.811	PASS
n48	30	20	641666	DFT-s-OFDM QPSK	50/0	17.786	18.612	PASS
n48	30	20	641666	DFT-s-OFDM 16QAM	50/0	17.722	18.738	PASS
n48	30	20	641666	DFT-s-OFDM 64QAM	50/0	17.888	18.779	PASS
n48	30	20	641666	DFT-s-OFDM 256QAM	50/0	17.882	18.610	PASS
n48	30	20	641666	CP-OFDM QPSK	51/0	18.190	19.015	PASS
n48	30	20	646000	DFT-s-OFDM PI/2 BPSK	50/0	17.906	18.788	PASS
n48	30	20	646000	DFT-s-OFDM QPSK	50/0	17.803	18.764	PASS
n48	30	20	646000	DFT-s-OFDM 16QAM	50/0	17.854	18.648	PASS
n48	30	20	646000	DFT-s-OFDM 64QAM	50/0	17.870	18.814	PASS
n48	30	20	646000	DFT-s-OFDM 256QAM	50/0	17.868	18.679	PASS
n48	30	20	646000	CP-OFDM QPSK	51/0	18.189	19.056	PASS
n48	30	30	637668	DFT-s-OFDM PI/2 BPSK	75/0	26.833	28.384	PASS
n48	30	30	637668	DFT-s-OFDM QPSK	75/0	26.895	28.276	PASS



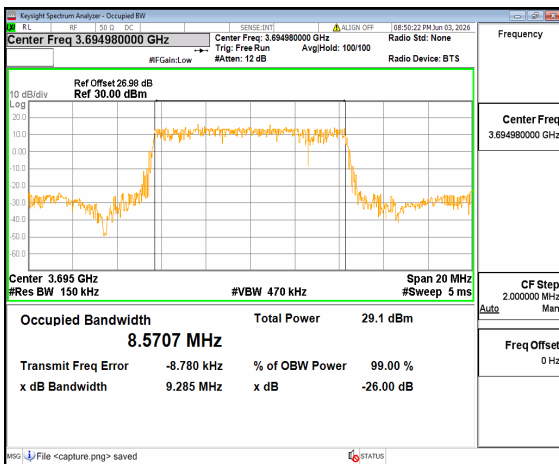
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n48	30	30	637668	DFT-s-OFDM 16QAM	75/0	26.827	28.234	PASS
n48	30	30	637668	DFT-s-OFDM 64QAM	75/0	26.809	28.384	PASS
n48	30	30	637668	DFT-s-OFDM 256QAM	75/0	26.778	28.373	PASS
n48	30	30	637668	CP-OFDM QPSK	78/0	27.752	29.290	PASS
n48	30	30	641666	DFT-s-OFDM PI/2 BPSK	75/0	26.891	28.136	PASS
n48	30	30	641666	DFT-s-OFDM QPSK	75/0	26.997	28.279	PASS
n48	30	30	641666	DFT-s-OFDM 16QAM	75/0	26.888	28.050	PASS
n48	30	30	641666	DFT-s-OFDM 64QAM	75/0	24.280	26.377	PASS
n48	30	30	641666	DFT-s-OFDM 256QAM	75/0	26.628	28.102	PASS
n48	30	30	641666	CP-OFDM QPSK	78/0	27.871	29.277	PASS
n48	30	30	645666	DFT-s-OFDM PI/2 BPSK	75/0	26.934	28.233	PASS
n48	30	30	645666	DFT-s-OFDM QPSK	75/0	26.891	28.100	PASS
n48	30	30	645666	DFT-s-OFDM 16QAM	75/0	26.812	28.247	PASS
n48	30	30	645666	DFT-s-OFDM 64QAM	75/0	26.878	28.238	PASS
n48	30	30	645666	DFT-s-OFDM 256QAM	75/0	26.880	27.971	PASS
n48	30	30	645666	CP-OFDM QPSK	78/0	27.744	29.198	PASS
n48	30	40	638000	DFT-s-OFDM PI/2 BPSK	100/0	35.757	37.217	PASS
n48	30	40	638000	DFT-s-OFDM QPSK	100/0	35.788	37.494	PASS
n48	30	40	638000	DFT-s-OFDM 16QAM	100/0	35.630	37.439	PASS

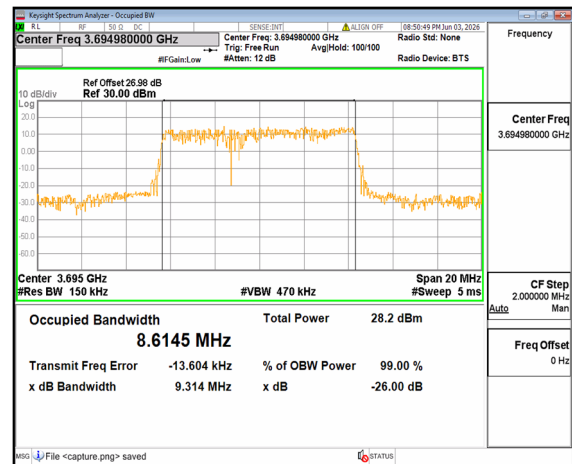


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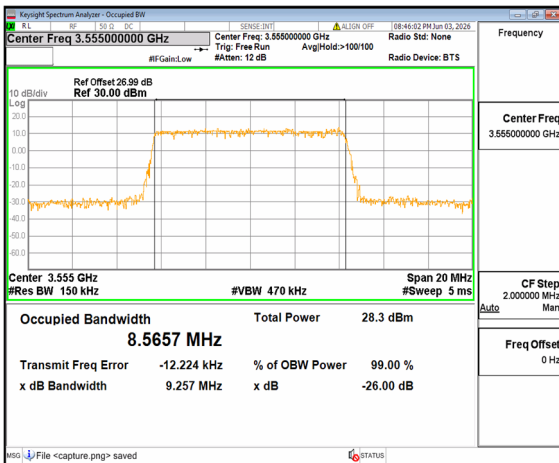
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n48	30	40	638000	DFT-s-OFDM 256QAM	100/0	35.694	37.489	PASS
n48	30	40	638000	CP-OFDM QPSK	106/0	37.805	39.673	PASS
n48	30	40	641666	DFT-s-OFDM PI/2 BPSK	100/0	35.885	37.421	PASS
n48	30	40	641666	DFT-s-OFDM QPSK	100/0	35.743	37.306	PASS
n48	30	40	641666	DFT-s-OFDM 16QAM	100/0	35.826	37.364	PASS
n48	30	40	641666	DFT-s-OFDM 64QAM	100/0	35.893	37.416	PASS
n48	30	40	641666	DFT-s-OFDM 256QAM	100/0	35.775	37.380	PASS
n48	30	40	641666	CP-OFDM QPSK	106/0	37.899	39.708	PASS
n48	30	40	645332	DFT-s-OFDM PI/2 BPSK	100/0	35.822	37.712	PASS
n48	30	40	645332	DFT-s-OFDM QPSK	100/0	35.744	37.372	PASS
n48	30	40	645332	DFT-s-OFDM 16QAM	100/0	35.794	37.454	PASS
n48	30	40	645332	DFT-s-OFDM 64QAM	100/0	35.752	37.488	PASS
n48	30	40	645332	DFT-s-OFDM 256QAM	100/0	35.839	37.385	PASS
n48	30	40	645332	CP-OFDM QPSK	106/0	37.824	39.517	PASS



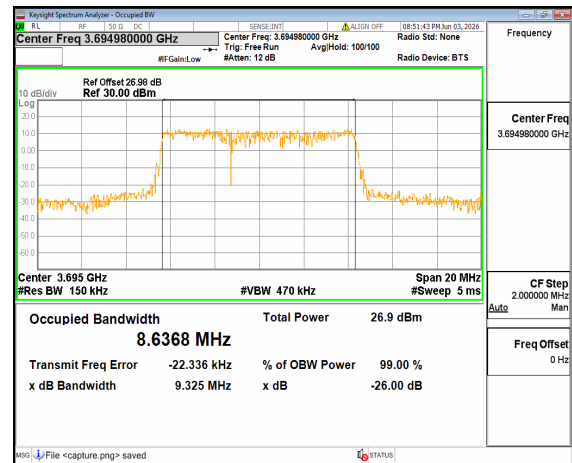
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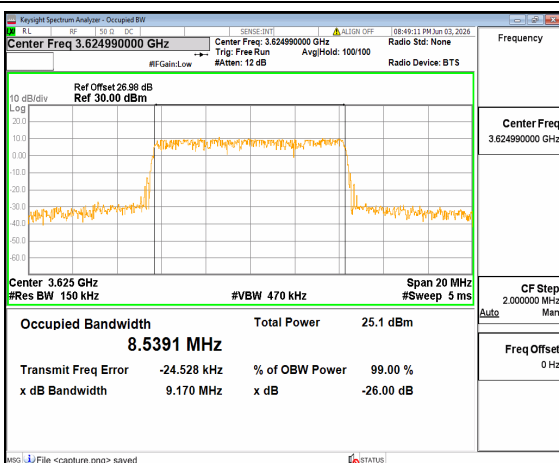
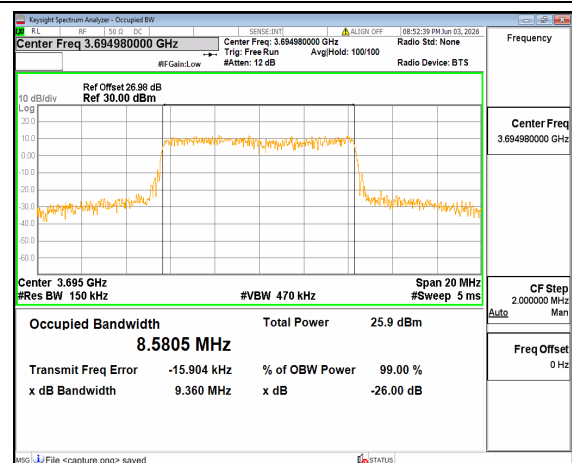
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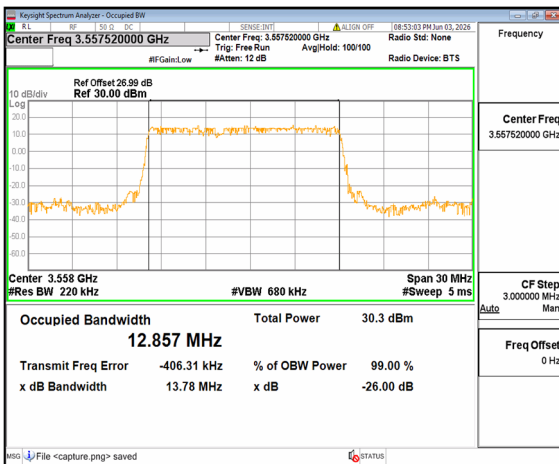
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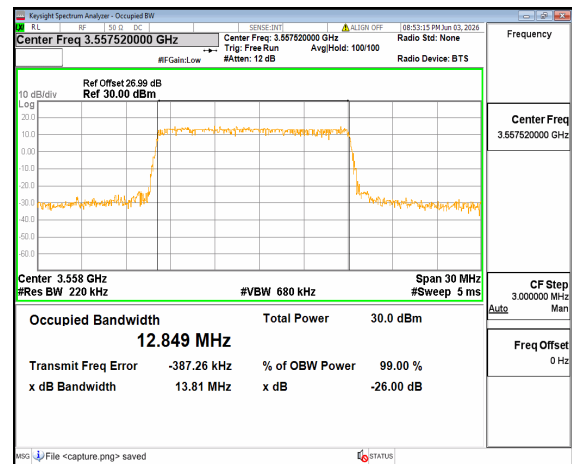
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n48 10M DFT-s-OFDM 256QAM Outer_Full
Mid

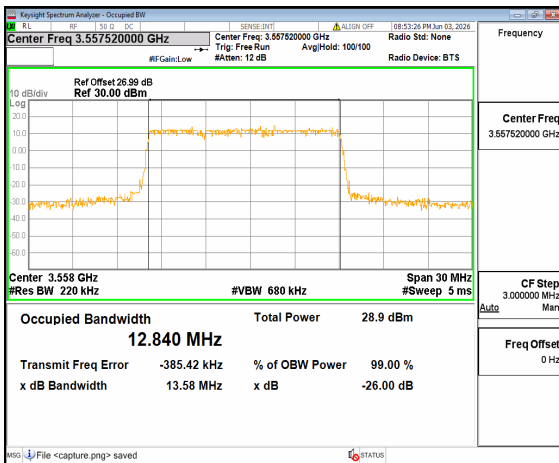
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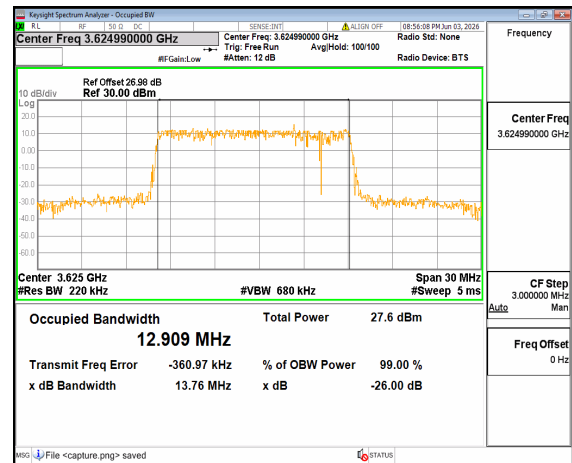
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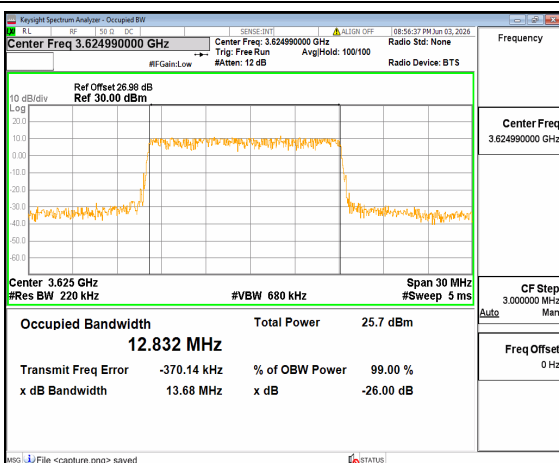
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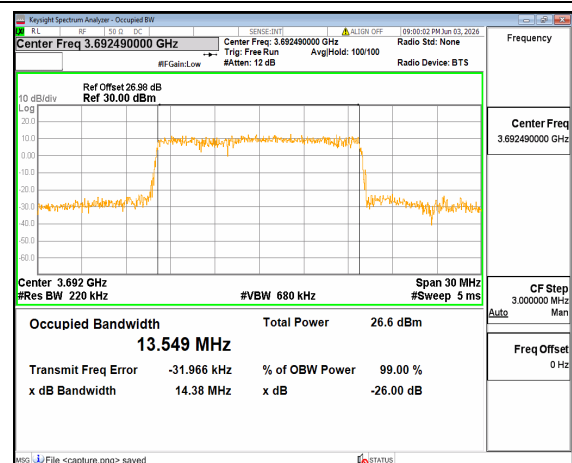
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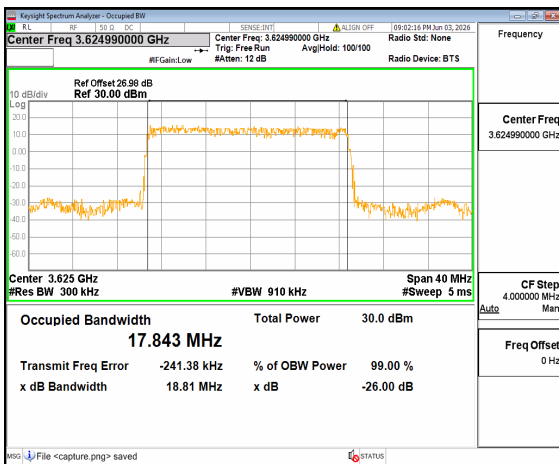
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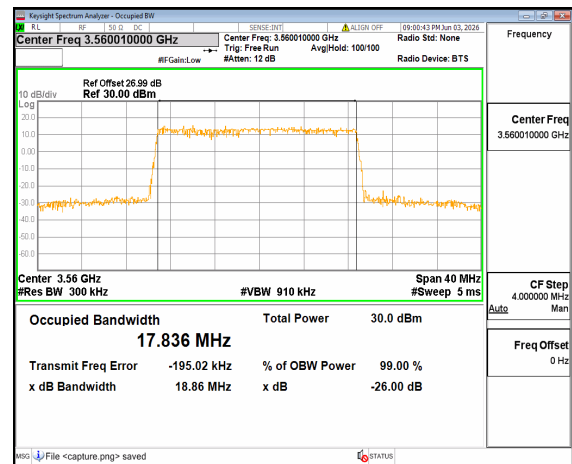
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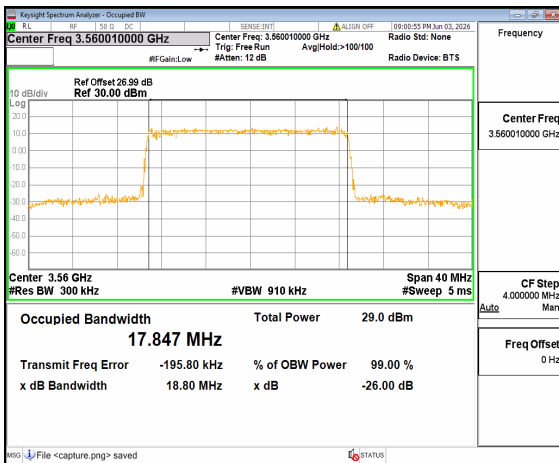
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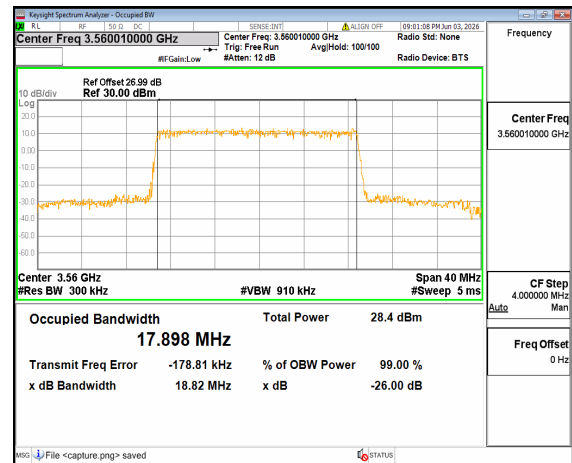
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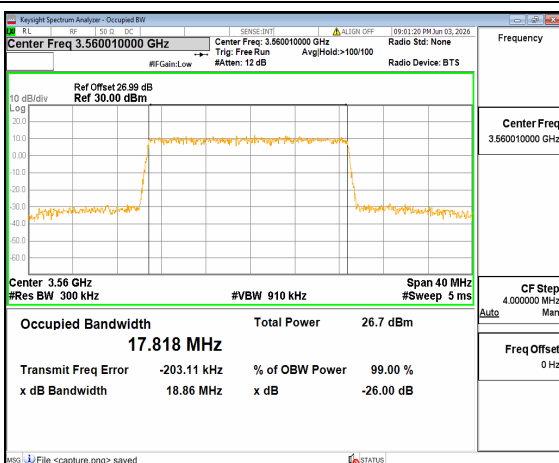
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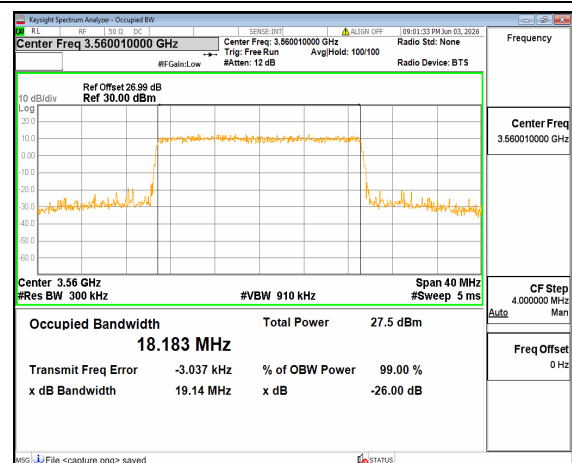
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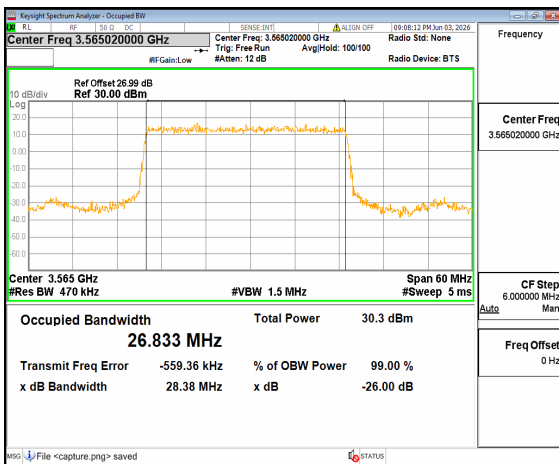
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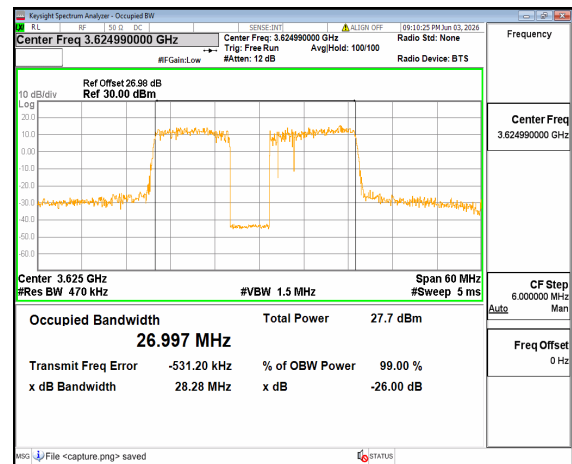
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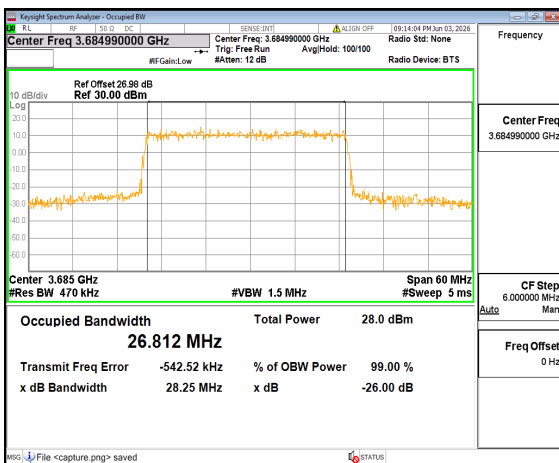
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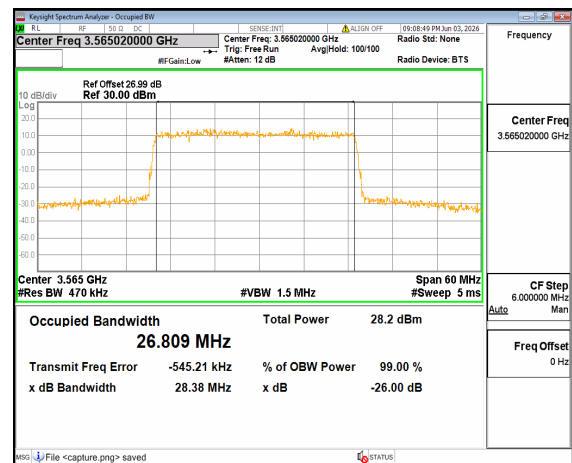
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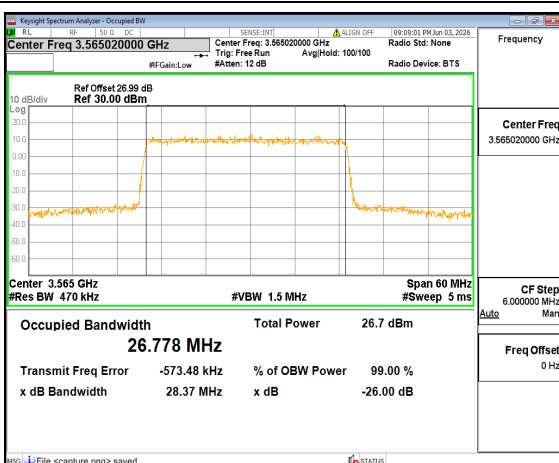
n48 30M DFT-s-OFDM QPSK Outer_Full Mid



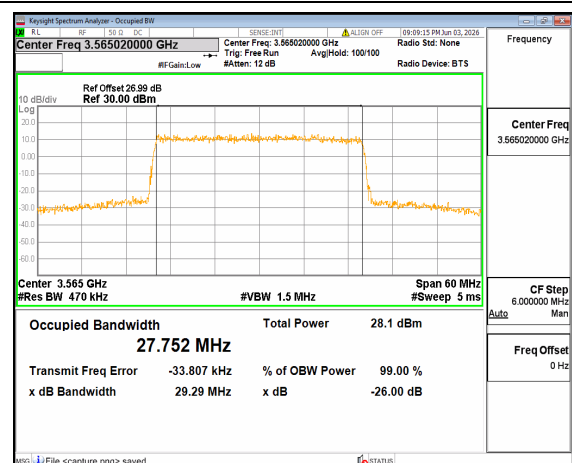
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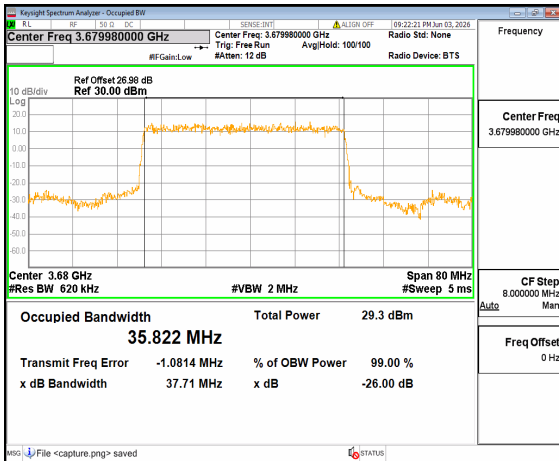
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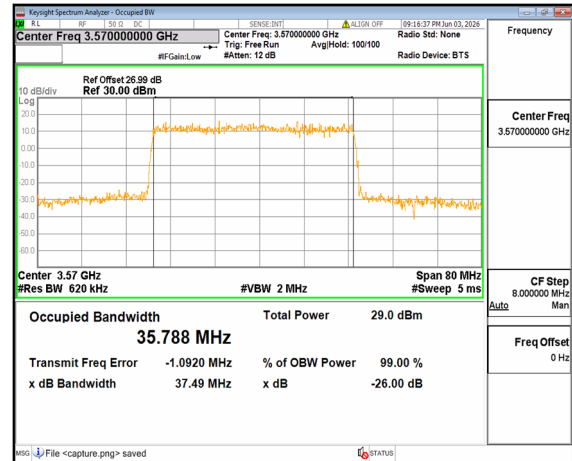
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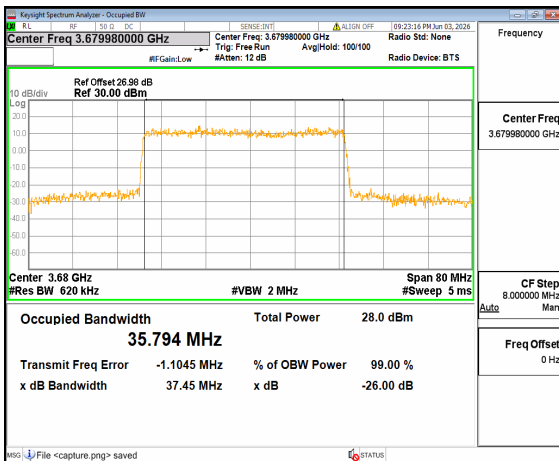
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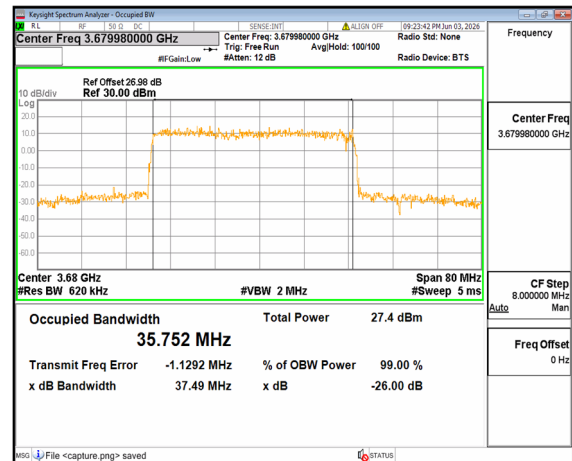
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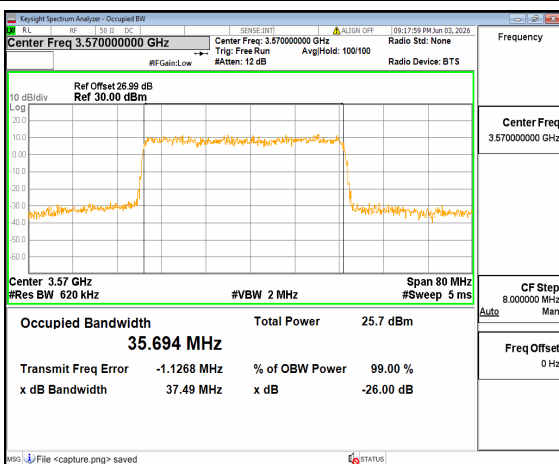
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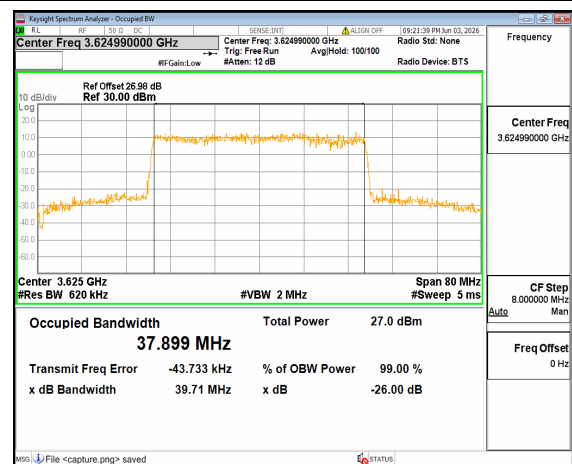
n48 40M DFT-s-OFDM 16QAM Outer_Full High



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



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



n48 40M CP-OFDM QPSK Outer_Full Mid

2.3. Frequency Stability

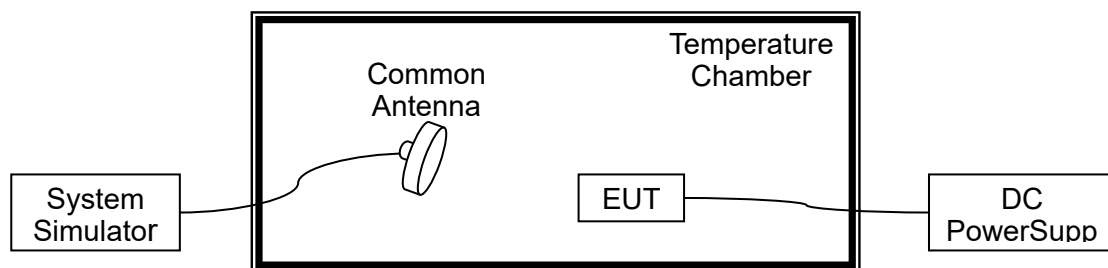
2.3.1. Requirement

According to RSS-GEN, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to RSS-GEN, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from 0°C to 45°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0, ANSI/TIA-603-E-2016 and ANSI C63.26-2015 Section 5.6.

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute



after applying power to the transmitter.

3. Frequency measurements are made at 10°C intervals ranging from -20°C to +60°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.87VDC, 4.45VDC and 3.65VDC, which are specified by the applicant; the normal temperature here used is 20°C.

NR n48, QPSK, Channel 641666, SCS 30kHz, Frequency 3624.99MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.86	+20(Ref)	12	0.003	PASS
Normal		-10	18	0.005	
Normal		0	-13	-0.004	
Normal		+10	-5	-0.001	
Normal		+20	13	0.004	
Normal		+30	18	0.005	
Normal		+40	23	0.006	
Normal		+45	12	0.003	
High	4.45	+20	15	0.004	
BATT.ENDPOINT	3.60	+20	19	0.005	

2.4. Peak to Average Ratio

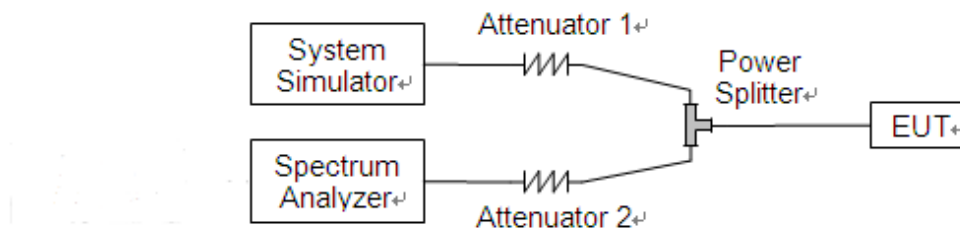
2.4.1. Requirement

According to FCC section 96.41(g) for n48, the peak-to-average power ratio (PAPR) of any CBSD transmitter output power must not exceed 13 dB. PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities or another Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

According to FCC section 27.50(d)(5) for n66, 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.

2.4.2. Test Description

Test Set:



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.

2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7, ANSI/TIA-603-E-2016 and ANSI C63.26-2015 Section 5.2.

$PAPR \text{ (dB)} = PPk \text{ (dBm or dBW)} - PAvg \text{ (dBm or dBW)}$

Where:

PAPR = peak-to-average power ratio, in dB

PPk = measured peak power or peak PSD level, in dBm or dBW

PAvg = measured average power or average PSD level, in dBm or dBW

2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.

Note: In the same NR frequency band, The measured power in SA mode is higher than that in NSA mode, SA mode is selected to test all test cases.

Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	Result (dB)	Limit (dB)	Verdict
n48	30	10	637000	DFT-s-OFDM PI/2 BPSK	24/0	4.84	13	PASS
n48	30	10	637000	DFT-s-OFDM 256QAM	24/0	7.02	13	PASS
n48	30	10	637000	CP-OFDM QPSK	24/0	7.92	13	PASS
n48	30	10	637000	CP-OFDM 256QAM	24/0	8.55	13	PASS
n48	30	10	641666	DFT-s-OFDM PI/2 BPSK	24/0	8.48	13	PASS
n48	30	10	641666	DFT-s-OFDM 256QAM	24/0	7.13	13	PASS
n48	30	10	641666	CP-OFDM QPSK	24/0	8.02	13	PASS
n48	30	10	641666	CP-OFDM 256QAM	24/0	8.63	13	PASS
n48	30	10	646332	DFT-s-OFDM PI/2 BPSK	24/0	5.14	13	PASS
n48	30	10	646332	DFT-s-OFDM 256QAM	24/0	7.15	13	PASS
n48	30	10	646332	CP-OFDM QPSK	24/0	8.1	13	PASS
n48	30	10	646332	CP-OFDM 256QAM	24/0	8.66	13	PASS
n48	30	15	637168	DFT-s-OFDM PI/2 BPSK	36/0	5.06	13	PASS
n48	30	15	637168	DFT-s-OFDM 256QAM	36/0	6.29	13	PASS
n48	30	15	637168	CP-OFDM QPSK	36/0	8.67	13	PASS



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n48	30	15	637168	CP-OFDM 256QAM	36/0	7.91	13	PASS
n48	30	15	641666	DFT-s-OFDM PI/2 BPSK	36/0	5.08	13	PASS
n48	30	15	641666	DFT-s-OFDM 256QAM	36/0	6.32	13	PASS
n48	30	15	641666	CP-OFDM QPSK	36/0	8.84	13	PASS
n48	30	15	641666	CP-OFDM 256QAM	36/0	7.97	13	PASS
n48	30	15	646166	DFT-s-OFDM PI/2 BPSK	36/0	5.23	13	PASS
n48	30	15	646166	DFT-s-OFDM 256QAM	36/0	6.43	13	PASS
n48	30	15	646166	CP-OFDM QPSK	36/0	8.89	13	PASS
n48	30	15	646166	CP-OFDM 256QAM	36/0	8	13	PASS
n48	30	20	637334	DFT-s-OFDM PI/2 BPSK	50/0	4.86	13	PASS
n48	30	20	637334	DFT-s-OFDM 256QAM	50/0	7.03	13	PASS
n48	30	20	637334	CP-OFDM QPSK	51/0	8.64	13	PASS
n48	30	20	637334	CP-OFDM 256QAM	51/0	8.74	13	PASS
n48	30	20	641666	DFT-s-OFDM PI/2 BPSK	50/0	5.09	13	PASS
n48	30	20	641666	DFT-s-OFDM 256QAM	50/0	7.1	13	PASS
n48	30	20	641666	CP-OFDM QPSK	51/0	8.76	13	PASS
n48	30	20	641666	CP-OFDM 256QAM	51/0	8.79	13	PASS
n48	30	20	646000	DFT-s-OFDM PI/2 BPSK	50/0	5.11	13	PASS
n48	30	20	646000	DFT-s-OFDM 256QAM	50/0	7.13	13	PASS



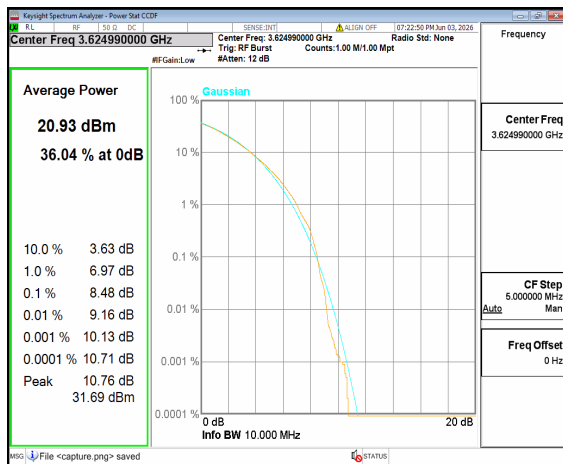
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n48	30	20	646000	CP-OFDM QPSK	51/0	8.88	13	PASS
n48	30	20	646000	CP-OFDM 256QAM	51/0	8.88	13	PASS
n48	30	30	637668	DFT-s-OFDM PI/2 BPSK	75/0	5.1	13	PASS
n48	30	30	637668	DFT-s-OFDM 256QAM	75/0	7.06	13	PASS
n48	30	30	637668	CP-OFDM QPSK	78/0	8.33	13	PASS
n48	30	30	637668	CP-OFDM 256QAM	78/0	8.67	13	PASS
n48	30	30	641666	DFT-s-OFDM PI/2 BPSK	75/0	5.18	13	PASS
n48	30	30	641666	DFT-s-OFDM 256QAM	75/0	7.02	13	PASS
n48	30	30	641666	CP-OFDM QPSK	78/0	8.51	13	PASS
n48	30	30	641666	CP-OFDM 256QAM	78/0	8.81	13	PASS
n48	30	30	645666	DFT-s-OFDM PI/2 BPSK	75/0	5.3	13	PASS
n48	30	30	645666	DFT-s-OFDM 256QAM	75/0	7.06	13	PASS
n48	30	30	645666	CP-OFDM QPSK	78/0	8.61	13	PASS
n48	30	30	645666	CP-OFDM 256QAM	78/0	8.86	13	PASS
n48	30	40	638000	DFT-s-OFDM PI/2 BPSK	100/0	5.14	13	PASS
n48	30	40	638000	DFT-s-OFDM 256QAM	100/0	7.2	13	PASS
n48	30	40	638000	CP-OFDM QPSK	106/0	9.2	13	PASS
n48	30	40	638000	CP-OFDM 256QAM	106/0	8.36	13	PASS
n48	30	40	641666	DFT-s-OFDM PI/2 BPSK	100/0	4.85	13	PASS

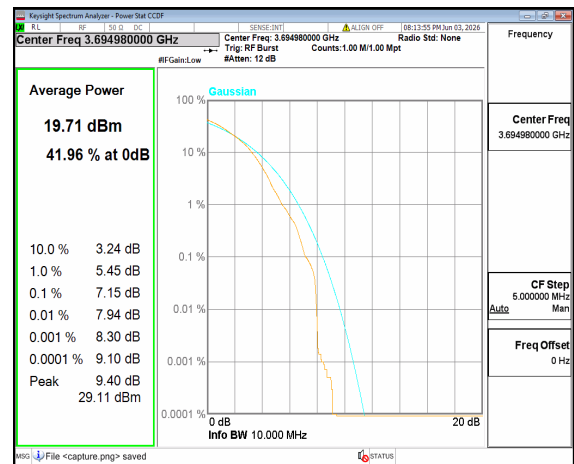


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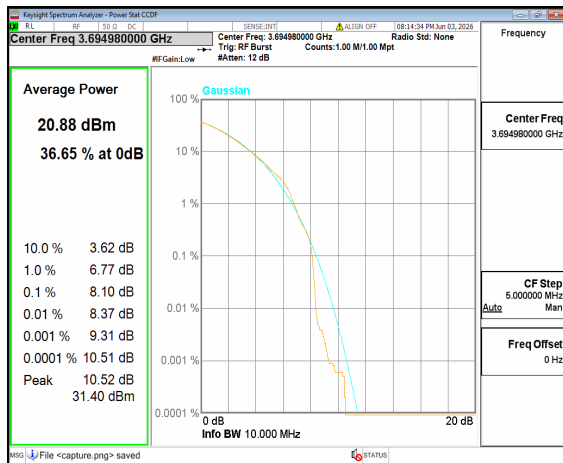
n48	30	40	641666	DFT-s-OFDM 256QAM	100/0	7.25	13	PASS
n48	30	40	641666	CP-OFDM QPSK	106/0	9.47	13	PASS
n48	30	40	641666	CP-OFDM 256QAM	106/0	8.38	13	PASS
n48	30	40	645332	DFT-s-OFDM PI/2 BPSK	100/0	4.97	13	PASS
n48	30	40	645332	DFT-s-OFDM 256QAM	100/0	7.32	13	PASS
n48	30	40	645332	CP-OFDM QPSK	106/0	9.52	13	PASS
n48	30	40	645332	CP-OFDM 256QAM	106/0	8.42	13	PASS



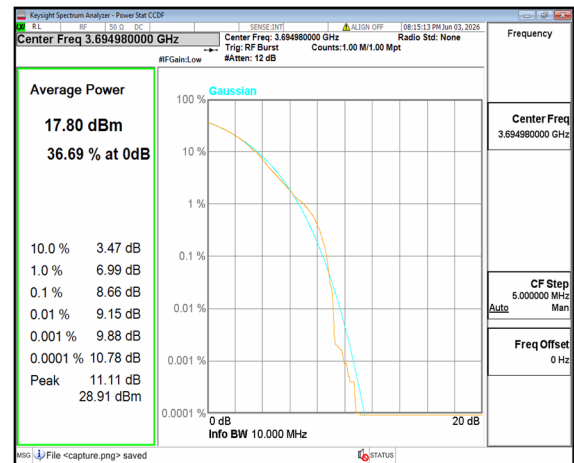
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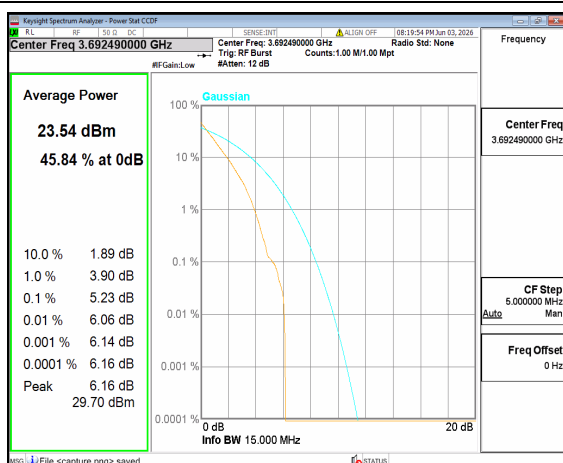
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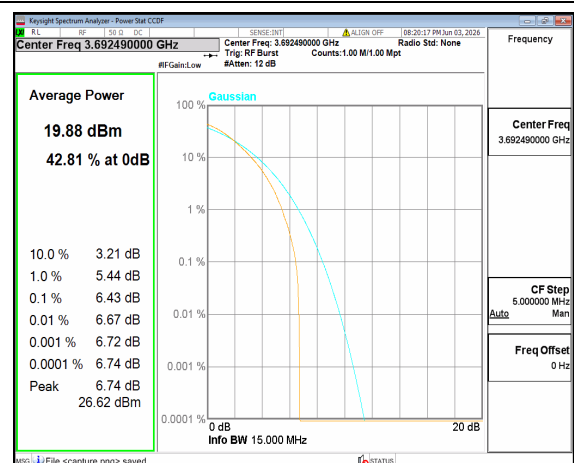
n48 10M CP-OFDM QPSK Outer_Full High



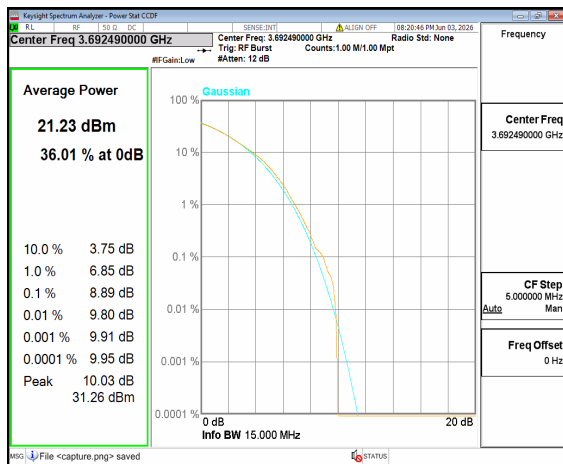
n48 10M CP-OFDM 256QAM Outer_Full High



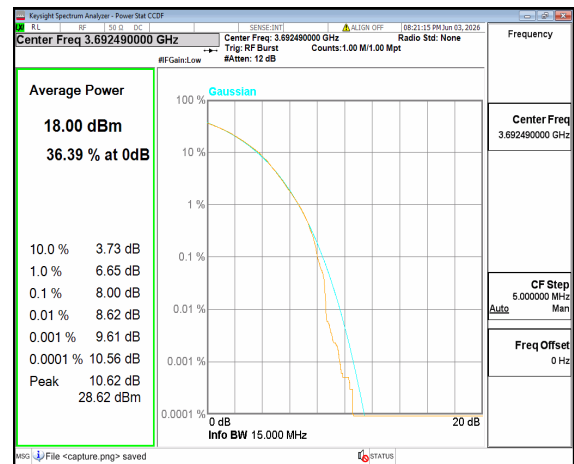
n48 15M DFT-s-OFDM BPSK Outer_Full High



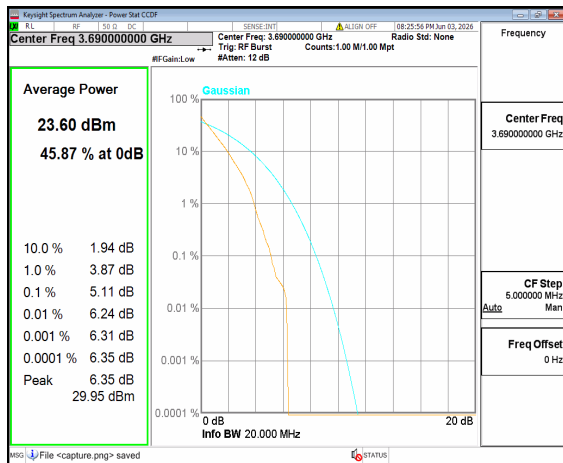
n48 15M DFT-s-OFDM 256QAM Outer_Full High



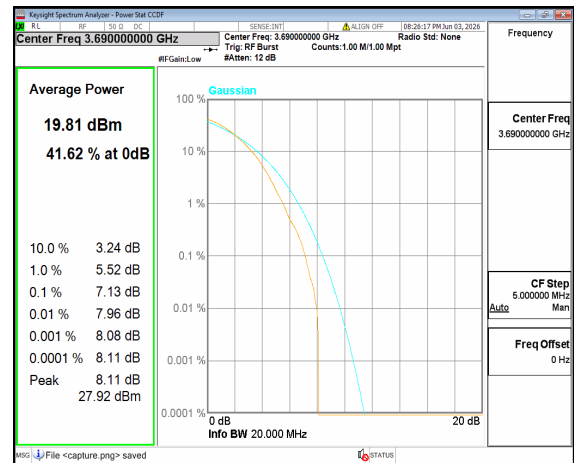
n48 15M CP-OFDM QPSK Outer_Full High



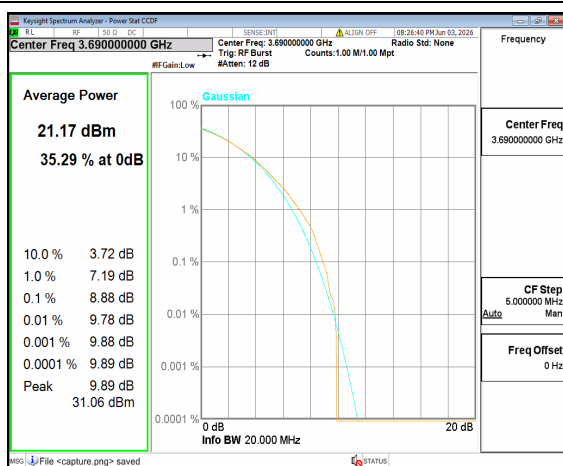
n48 15M CP-OFDM 256QAM Outer_Full High



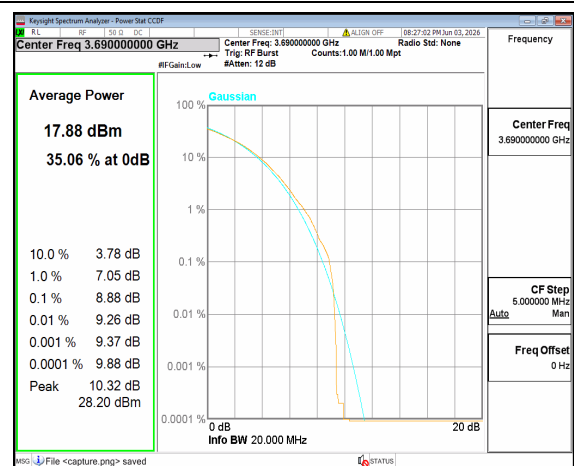
n48 20M DFT-s-OFDM BPSK Outer_Full High



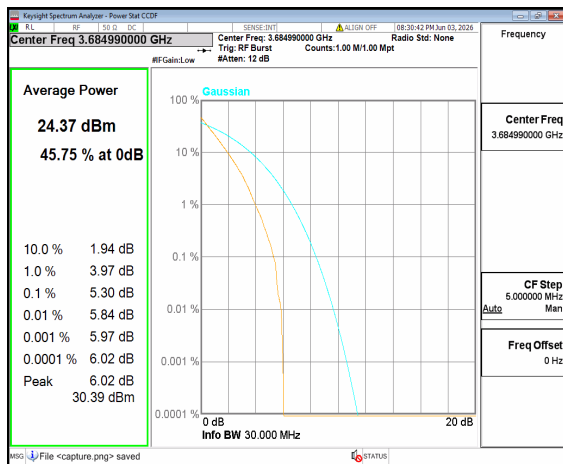
n48 20M DFT-s-OFDM 256QAM Outer_Full High



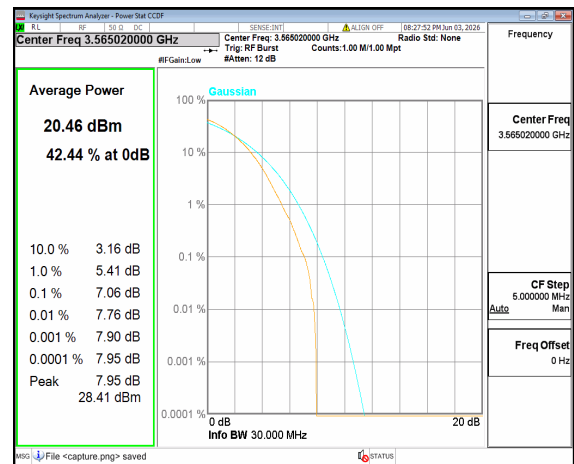
n48 20M CP-OFDM QPSK Outer_Full High



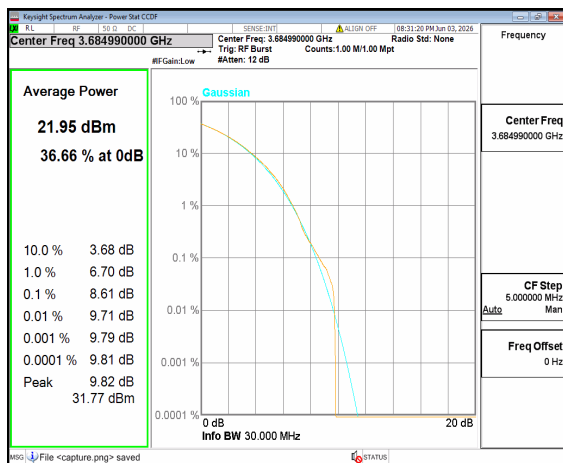
n48 20M CP-OFDM 256QAM Outer_Full High



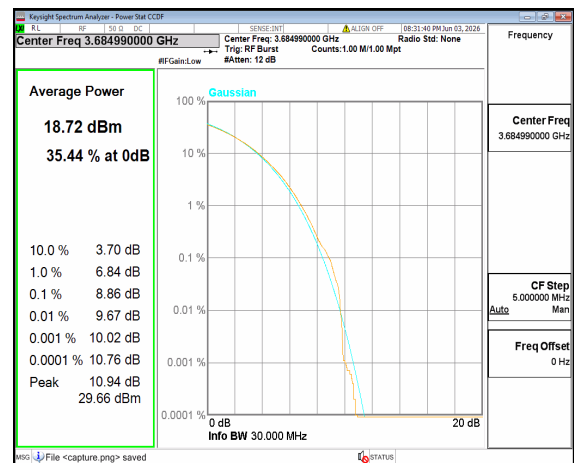
n48 30M DFT-s-OFDM BPSK Outer_Full High



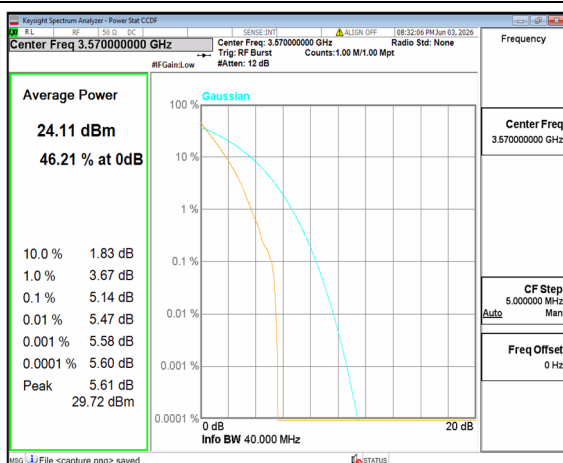
n48 30M DFT-s-OFDM 256QAM Outer_Full Low



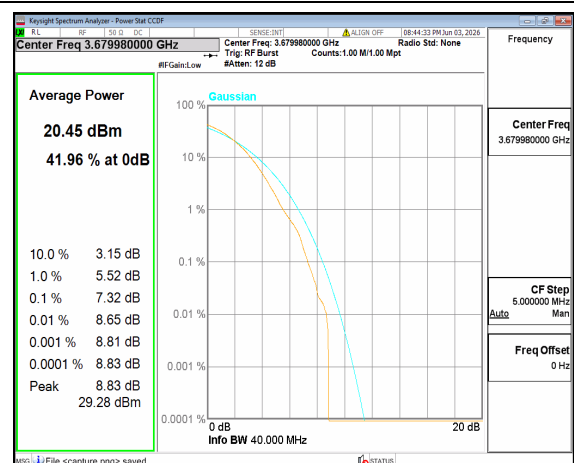
n48 30M CP-OFDM QPSK Outer_Full High



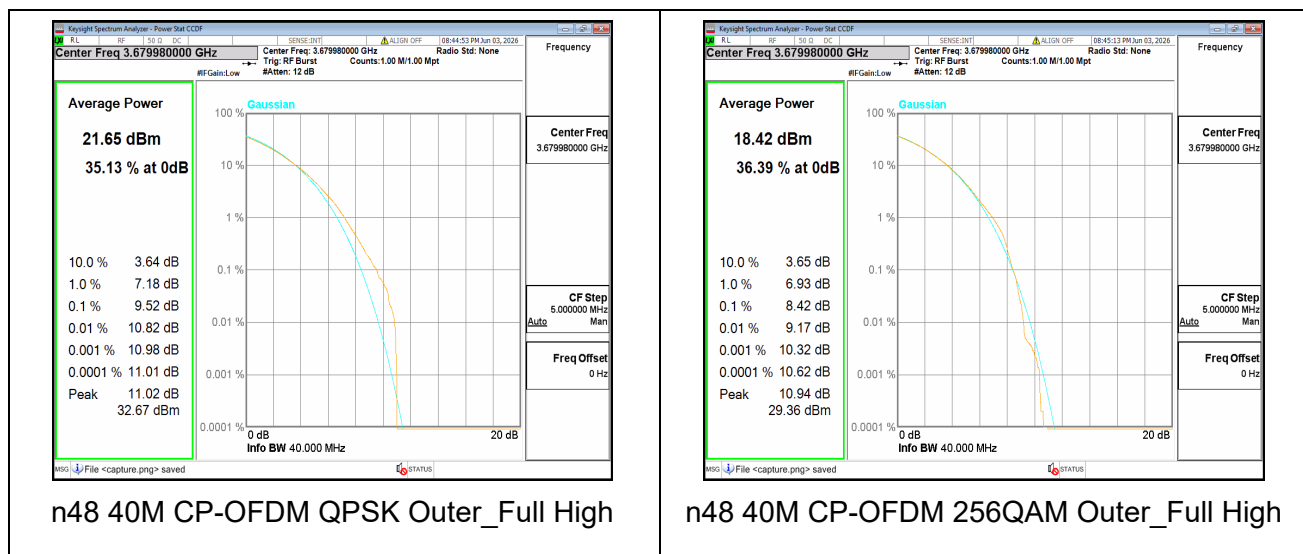
n48 30M CP-OFDM 256QAM Outer_Full High



n48 40M DFT-s-OFDM BPSK Outer_Full Low



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



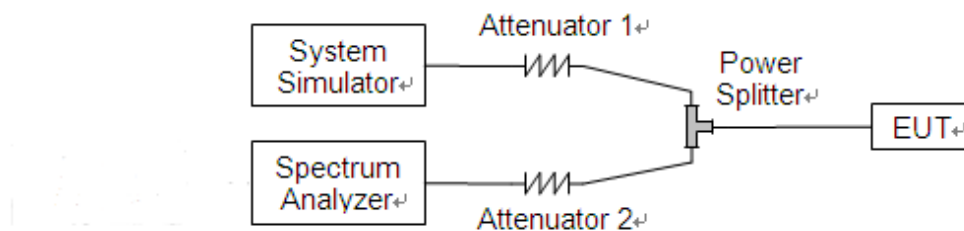
2.5. Conducted Spurious Emissions

2.5.1. Requirement

According to FCC section 2.1051, section 22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

According to FCC section 96.41(g) for n48, the peak-to-average power ratio (PAPR) of any CBSD transmitter output power must not exceed 13 dB. PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities or another Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

2.5.2. Test Description



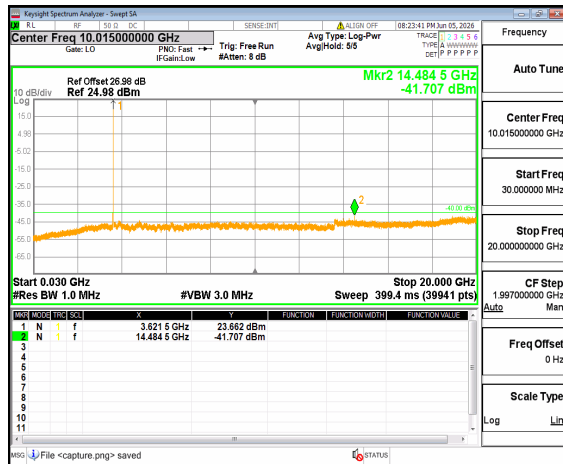
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.5.3. Test procedure

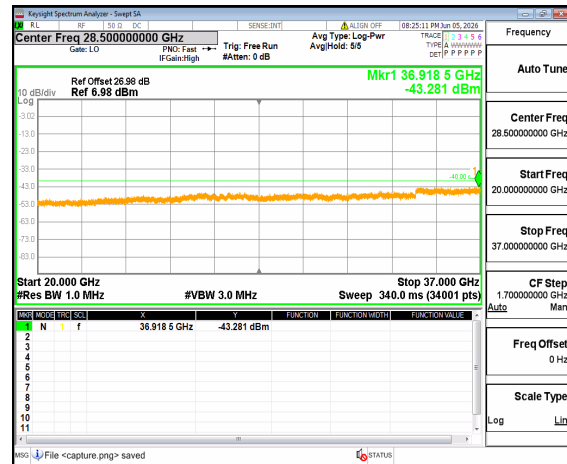
KDB 971168 D01v03 Section 6.0, ANSI/TIA-603-E-2016 and ANSI C63.26-2015 Section 5.7.



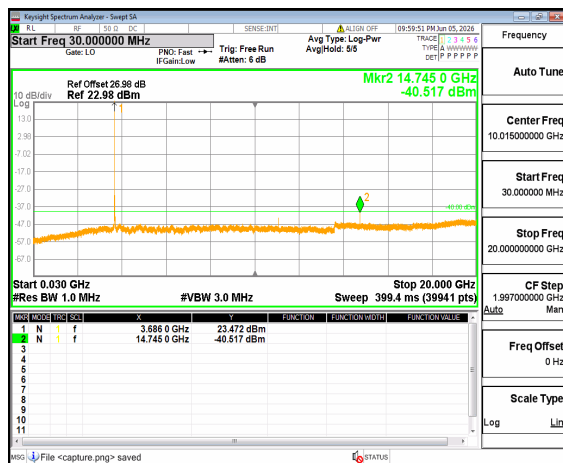
2.5.4. Test Result



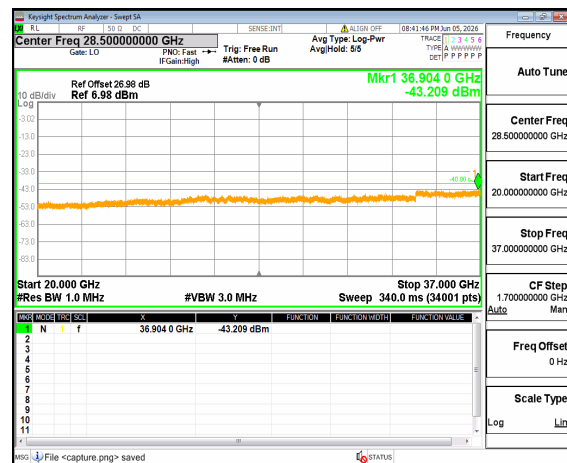
n48 (30MHz-20GHz) 10M DFT-s-OFDM
QPSK Inner_1RB_Left Mid



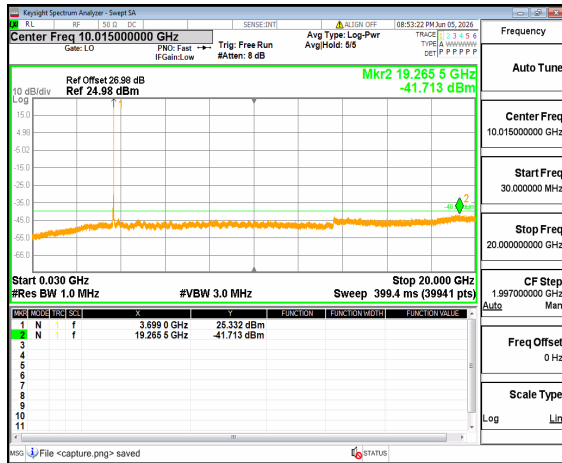
n48 (20GHz-37GHz) 10M DFT-s-OFDM
QPSK Inner_1RB_Left Mid



n48 (30MHz-20GHz) 15M DFT-s-OFDM
QPSK Inner_1RB_Left High



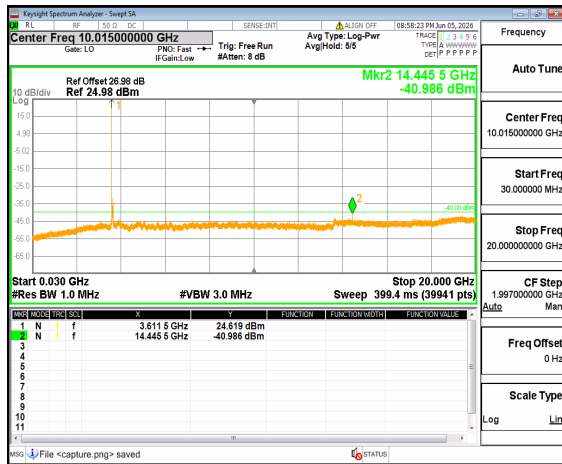
n48 (20GHz-37GHz) 15M DFT-s-OFDM
QPSK Inner_1RB_Left High



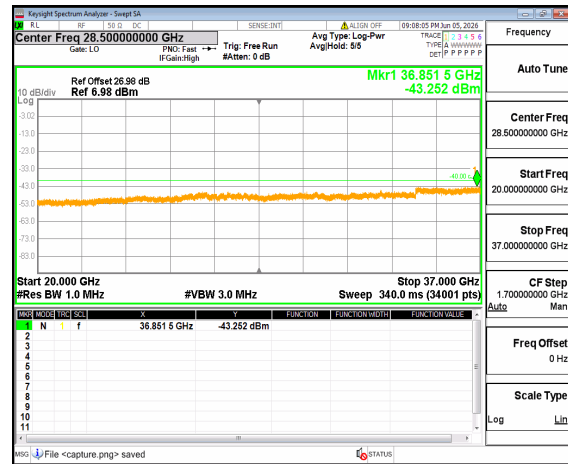
n48 (30MHz-20GHz) 20M DFT-s-OFDM
QPSK Inner_1RB_Right High



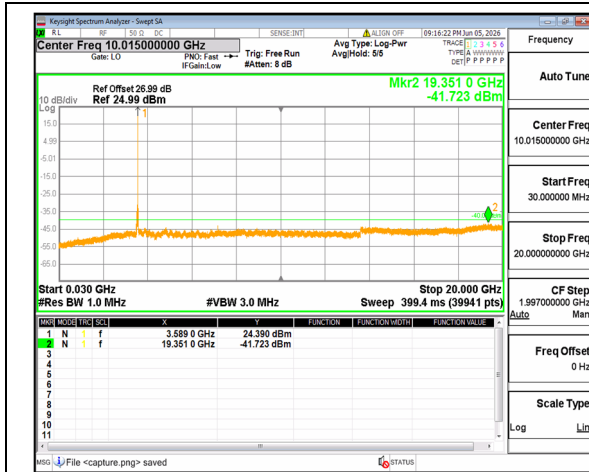
n48 (20GHz-37GHz) 20M DFT-s-OFDM
QPSK Inner_1RB_Right High



n48 (30MHz-20GHz) 30M DFT-s-OFDM
QPSK Inner_1RB_Left Mid



n48 (20GHz-37GHz) 30M DFT-s-OFDM
QPSK Inner_1RB_Left Mid



n48 (30MHz-20GHz) 40M DFT-s-OFDM
QPSK Inner_1RB_Right Low



n48 (20GHz-37GHz) 40M DFT-s-OFDM
QPSK Inner_1RB_Right Low

2.6. Band Edge

2.6.1. Requirement

n48

Part 96.41(e)(1)(i)

For channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz.

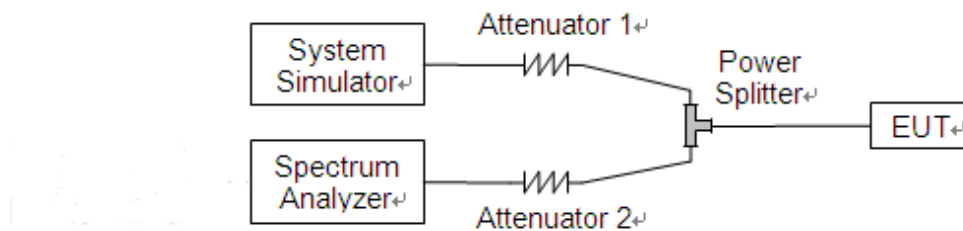
Part 96.41(e)(1)(ii)

For channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz 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 megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz.

Part 96.41(e)(2)

For CBSDs and End User Devices, 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 -40 dBm/MHz.

2.6.2. Test Description



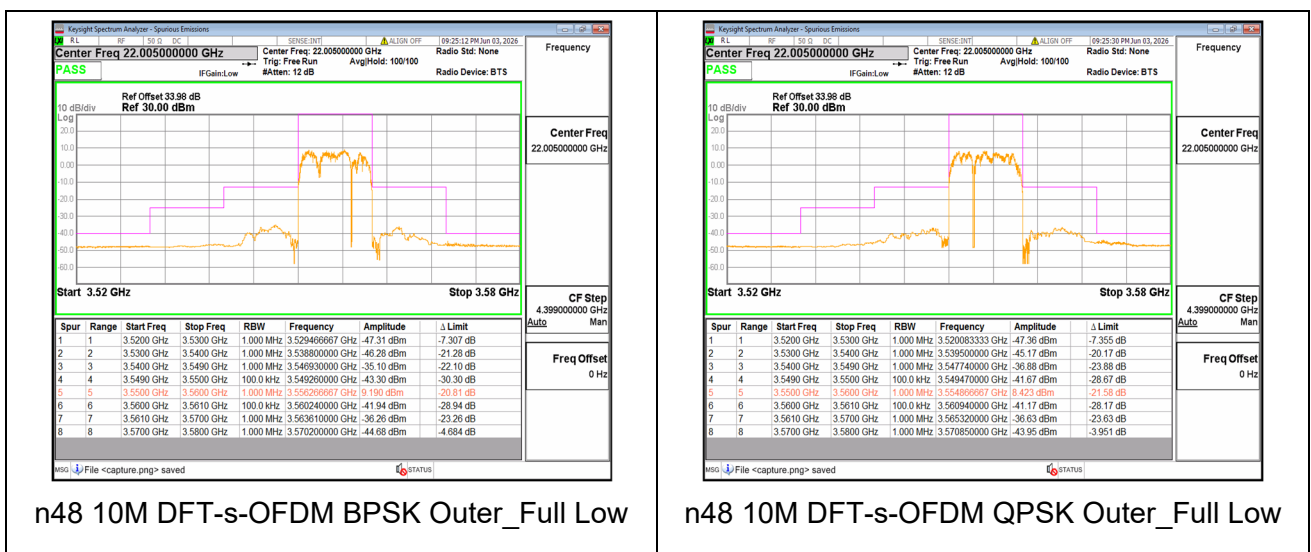
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

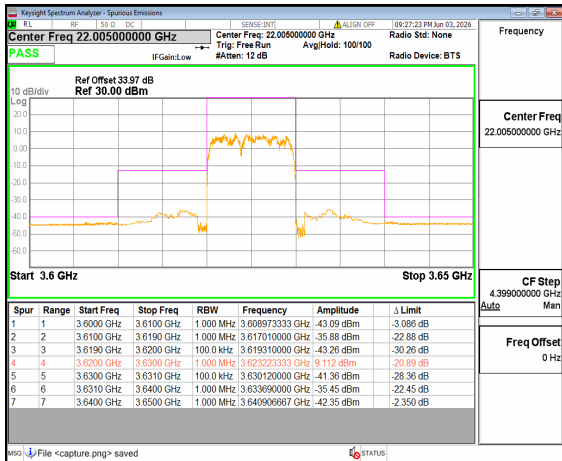
2.6.3. Test procedure

KDB 971168 D01v03 Section 6.0, ANSI/TIA-603-E-2016 and ANSI C63.26-2015 Section 5.7.

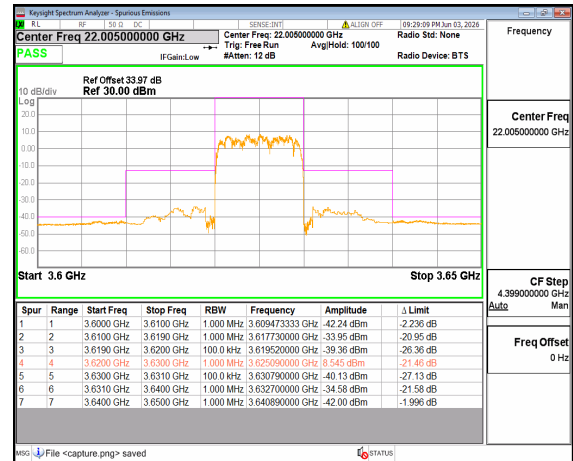
2.6.4. Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

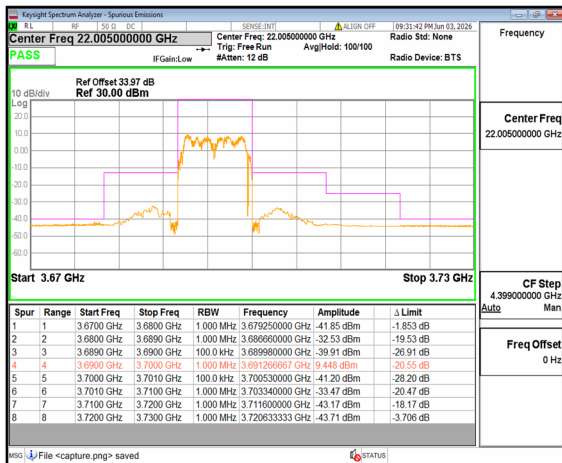




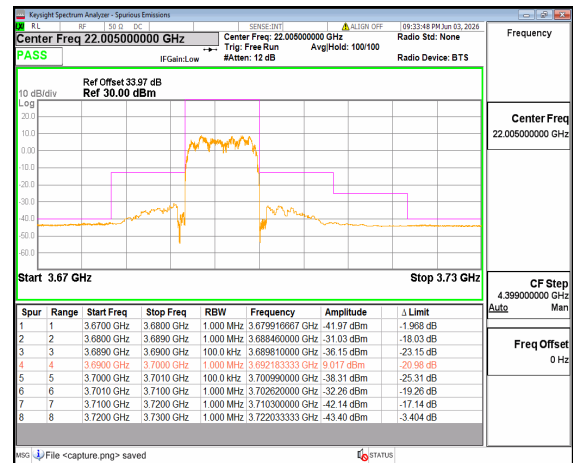
n48 10M DFT-s-OFDM BPSK Outer_Full Mid



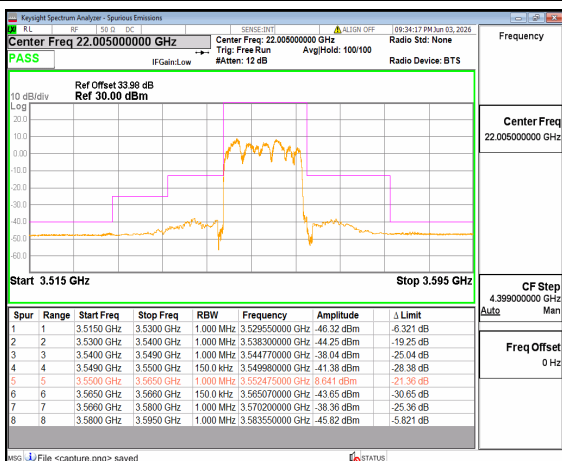
n48 10M DFT-s-OFDM QPSK Outer_Full Mid



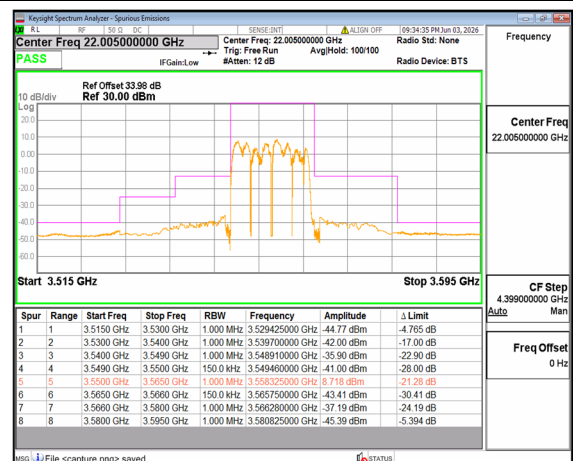
n48 10M DFT-s-OFDM BPSK Outer_Full High



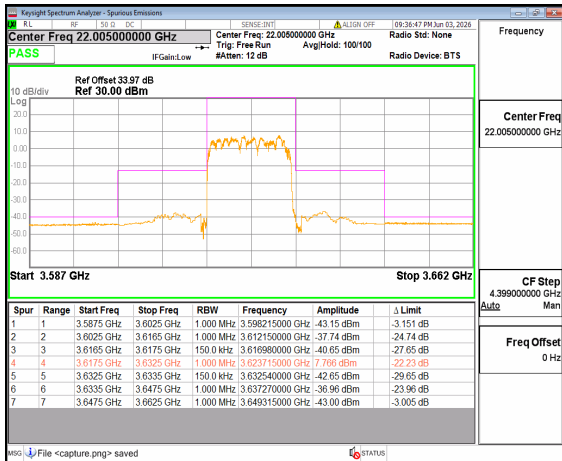
n48 10M DFT-s-OFDM QPSK Outer_Full High



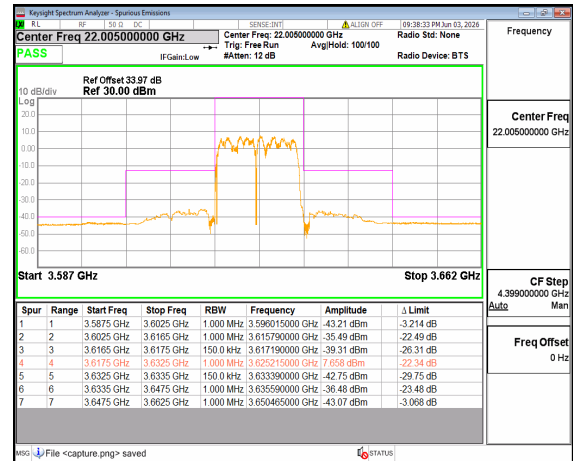
n48 15M DFT-s-OFDM BPSK Outer_Full Low



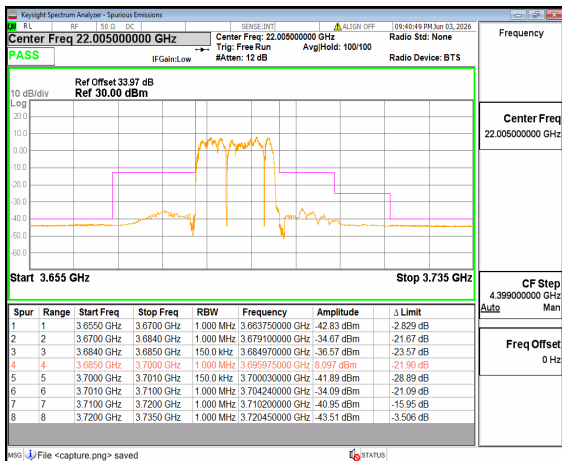
n48 15M DFT-s-OFDM QPSK Outer_Full Low



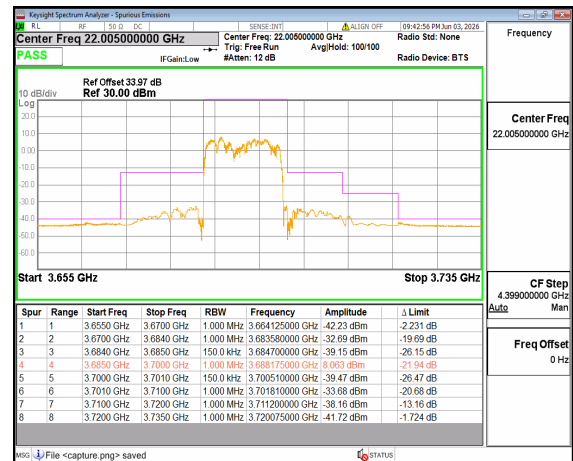
n48 15M DFT-s-OFDM BPSK Outer_Full Mid



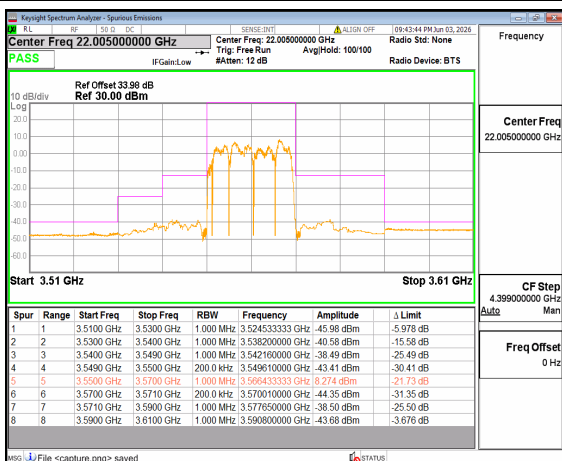
n48 15M DFT-s-OFDM QPSK Outer_Full Mid



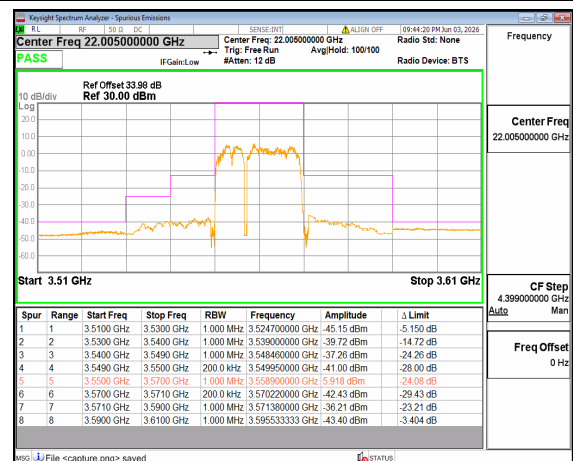
n48 15M DFT-s-OFDM BPSK Outer_Full High



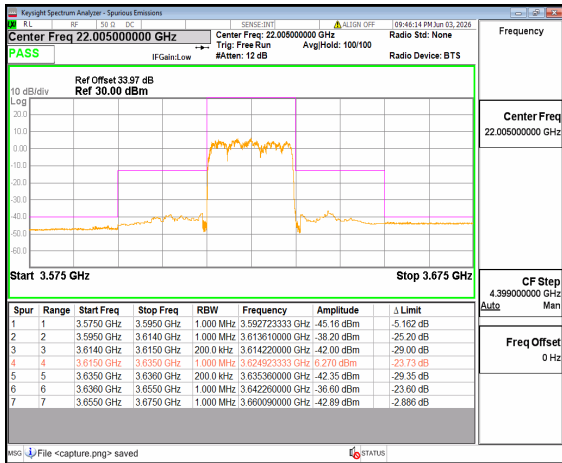
n48 15M DFT-s-OFDM QPSK Outer_Full High



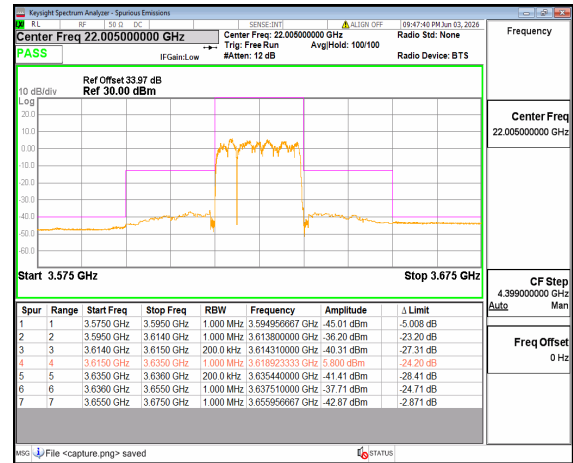
n48 20M DFT-s-OFDM BPSK Outer_Full Low



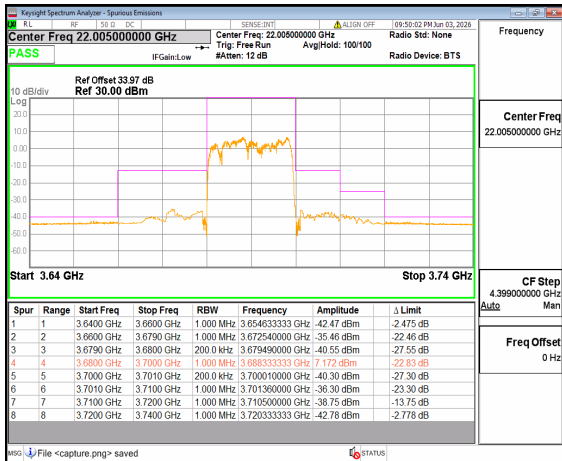
n48 20M DFT-s-OFDM QPSK Outer_Full Low



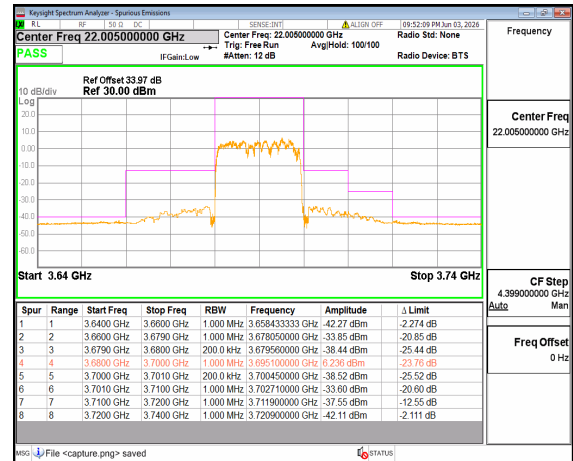
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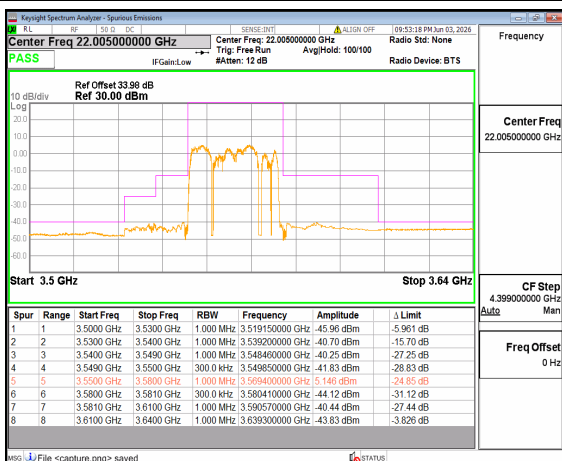
n48 20M DFT-s-OFDM QPSK Outer_Full Mid



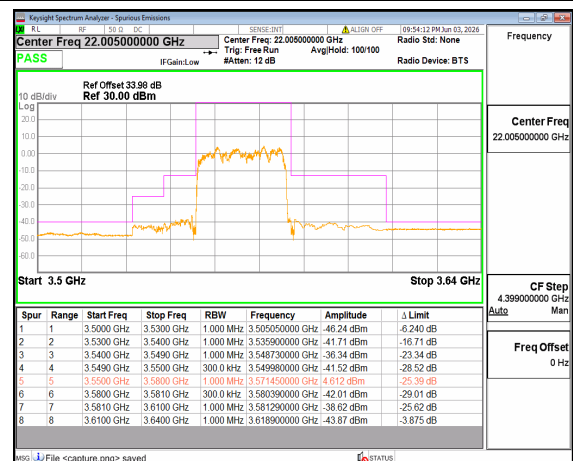
n48 20M DFT-s-OFDM BPSK Outer_Full High



n48 20M DFT-s-OFDM QPSK Outer_Full High



n48 30M DFT-s-OFDM BPSK Outer_Full Low



n48 30M DFT-s-OFDM QPSK Outer_Full Low