



REPORT No.: SZ24060210W01

TEST REPORT

APPLICANT : Sonim Technologies, Inc.

PRODUCT NAME : Mobile Hotspot

MODEL NAME : H500V

BRAND NAME : Sonim

FCC ID : WYPH500V

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 96

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Edited by:

Gan Jing

Gan Jing (Rapporteur)

Approved by:

Shen Junsheng

Shen Junsheng (Supervisor)

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MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen, Guangdong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





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Change History		
Version	Date	Reason for change
1.0	2024-09-21	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Sonim Technologies, Inc.
Applicant Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer:	Sonim Technologies, Inc.
Manufacturer Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Hotspot	
Sample No.:	4#,12#	
Hardware Version:	V2.0	
Software Version:	H50.0-03-5.4.0-15.32.00	
Modulation Type:	QPSK, 16QAM, 64QAM,256QAM	
Operation Band:	Uplink:2A_4A; 2A_5A; 2A_13A; 2A_66A; 4A_5A; 4A_13A; 5A_66A; 13A_66A; 48C; 66B; 66C	
Channel Bandwidth:	Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	Band 13	5 MHz, 10MHz
	Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE 48C	5MHz+20MHz,20MHz+5MHz,10MHz+20MHz,20MHz+10MHz,15MHz+20MHz,20MHz+15MHz,20MHz+20MHz
	LTE 66B	5MHz+5MHz,5MHz+10MHz,10MHz+5MHz,5MHz+15MHz,15MHz+5MHz,10MHz+10MHz
	LTE 66C	5MHz+20MHz,20MHz+5MHz,10MHz+15MHz,15MHz+10MHz,10MHz+20MHz,20MHz+10MHz,15MHz+15MHz,15MHz+20MHz,20MHz+15MHz,20MHz+20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	Band 2	ANT0:2.40 dBi,ANT1:2.17dBi
	Band 4	ANT0:1.29 dBi,ANT1:1.93dBi



	Band 5	ANT4:-1.44 dBi
	Band 13	ANT4:-2.58 dBi
	Band 48	ANT2:-0.14 dBi,ANT3:-0.03 dBi
	Band 66	ANT0:1.29 dBi,ANT1:1.93 dBi
Accessory Information:	Battery	
	Brand Name:	sonim
	Model No.:	BAT-06000-01S
	Serial No.:	N/A
	Capacity:	6000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Guangdong Fenghua New Energy Co.,Ltd.
	AC Adapter	
	Brand Name:	N/A
	Model No.:	1-CHUSQ302-097
	Serial No.:	N/A
	Rated Output:	5V=3A or 9V=2.0A or 12V=1.5A
	Rated Input:	100-240V~50/60Hz, 0.5A
	Manufacturer:	HUIZHOU PUAN ELECTRONICS CO.,LTD

Note1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

Channel bandwidth	Maximum ERP/EIRP (W)			
CA_48C	QPSK	16QAM	64QAM	256QAM
20+20	0.106	/	/	/
CA_66B	QPSK	16QAM	64QAM	256QAM
10+10	0.275	/	/	/
CA_66C	QPSK	16QAM	64QAM	256QAM
20+20	0.258	/	/	/
CA_2A-4A	QPSK	16QAM	64QAM	256QAM
20+20	0.290	/	/	/
CA_2A-5A	QPSK	16QAM	64QAM	256QAM
20+10	0.259	/	/	/
CA_2A-13A	QPSK	16QAM	64QAM	256QAM
20+10	0.260	/	/	/
CA_2A-66A	QPSK	16QAM	64QAM	256QAM
20+20	0.286	/	/	/
CA_4A-5A	QPSK	16QAM	64QAM	256QAM
20+10	0.223	/	/	/
CA_4A-13A	QPSK	16QAM	64QAM	256QAM
20+10	0.223	/	/	/
CA_5A-66A	QPSK	16QAM	64QAM	256QAM
10+20	0.313	/	/	/
CA_13A-66A	QPSK	16QAM	64QAM	256QAM
10+20	0.238	/	/	/

Channel bandwidth	Emission Designator (99%OBW)			
LTE 48C	QPSK	16QAM	64QAM	256QAM
5+20	22M8G7D	22M8W7D	22M8W7D	22M7W7D
10+20	27M7G7D	27M6W7D	27M6W7D	27M7W7D
15+20	32M6G7D	32M5W7D	32M7W7D	32M7W7D
20+5	22M8G7D	22M9W7D	22M9W7D	22M8W7D
20+10	27M7G7D	27M7W7D	27M7W7D	27M7W7D
20+15	32M6G7D	32M6W7D	32M5W7D	32M6W7D
20+20	37M4G7D	37M5W7D	37M5W7D	37M4W7D
LTE 66B	QPSK	16QAM	64QAM	256QAM
5+5	9M31G7D	9M30W7D	9M29W7D	9M31W7D



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5+10	13M9G7D	13M9W7D	13M9W7D	13M9W7D
5+15	18M3G7D	18M3W7D	18M3W7D	18M3W7D
10+5	14M0G7D	13M9W7D	14M0W7D	13M9W7D
10+10	18M9G7D	18M9W7D	18M9W7D	18M9W7D
15+5	18M3G7D	18M3W7D	18M3W7D	18M3W7D
LTE 66C	QPSK	16QAM	64QAM	256QAM
5+20	22M8G7D	22M8W7D	22M8W7D	22M8W7D
10+15	23M1G7D	23M1W7D	23M1W7D	23M1W7D
10+20	27M8G7D	27M7W7D	27M7W7D	27M7W7D
15+10	23M2G7D	23M1W7D	23M1W7D	23M1W7D
15+15	28M3G7D	28M3W7D	28M3W7D	28M3W7D
15+20	32M6G7D	32M6W7D	32M5W7D	32M6W7D
20+5	22M8G7D	22M9W7D	22M9W7D	22M9W7D
20+10	27M7G7D	27M8W7D	27M7W7D	27M8W7D
20+15	32M7G7D	32M6W7D	32M6W7D	32M6W7D
20+20	37M5G7D	37M5W7D	37M5W7D	37M5W7D

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 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
6	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE

B2			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	$EIRP \leq 2\text{ W}$	PASS
Peak-Average Ratio	§24.232(d)	Limit $\leq 13\text{ dB}$	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)	$\leq -13\text{ dBm/1MHz}$	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	$\leq -13\text{ dBm/1MHz}$	PASS
Frequency Stability	§2.1055, §24.235	No limit	N/A

B4 & B66			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	$EIRP \leq 1\text{ W}$	PASS
Peak-Average Ratio	§27.50(d) (5)	Limit $\leq 13\text{ dB}$	PASS



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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

B5			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	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, §22.355	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §22.355	$\leq \pm 2.5$ ppm	PASS



B13			
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

B48			
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	N/A	N/A	N/A
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



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 E.R.P./E.I.R.P.	Yu Xiaoming Gan Jing	PASS	No deviation
Occupied Bandwidth	Gan Jing	PASS	No deviation
Frequency Stability	Gan Jing	PASS	No deviation
Peak to Average Radio	Gan Jing	PASS	No deviation
Conducted Spurious Emissions	Gan Jing	PASS	No deviation
Band Edge	Gan Jing	PASS	No deviation
Radiated Spurious Emissions	Gao Jianrou Li Hanbin	PASS	No deviation

Note 1: The test results of these test items in this report refer to the test report(Report No.: SZ23100334W01).

Note 2: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 3: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 23.5dB contains two parts that cable loss 13.5dB and Attenuator 10dB.

Note 4: 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 5: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



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 LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50 (d)(4) for LTE Band 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1 watt E.I.R.P.

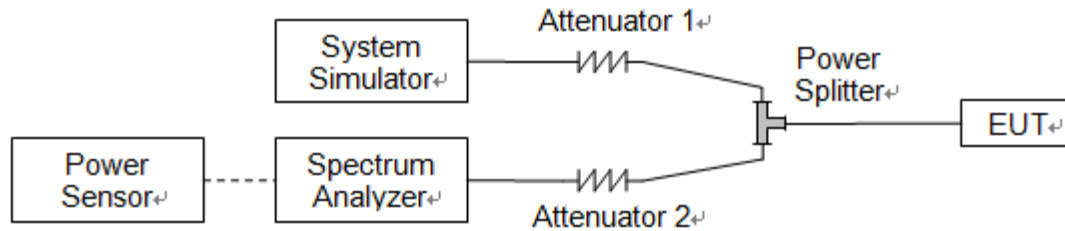
According to FCC section 22.913 (a)(2) for LTE Band 5, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (b)(10) for LTE Band 13, 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 96.41(b) for LTE Band 48, 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 in this paragraph (b):

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.

E.I.R.P. (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

E.R.P. (dBm) = E.I.R.P. (dBm) - 2.15

**2.1.4. Result****Conducted Output Power**

CA_48C								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
55340	55538	QPSK	1	0	0	0	1	20.33
55891	56089	QPSK	1	0	0	0	1	20.38
56442	56640	QPSK	1	0	0	0	1	20.29

CA_66B								
Combination:10MHz+10MHz(50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
132022	132121	QPSK	1	0	100	0	1	22.22
132373	132472	QPSK	1	0	100	0	1	22.46
132523	132622	QPSK	1	0	100	0	1	22.31

CA_66C								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
132072	132270	QPSK	1	0	0	0	1	22.10
132323	132521	QPSK	1	0	0	0	1	22.14
132374	132572	QPSK	1	0	0	0	1	22.19

Configure	CA Configuration	PCC				
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)
Inter-band	CA_2A-4A	2	20	18700	1860	QPSK/1#0
	CA_2A-5A	2	20	18700	1860	QPSK/1#0
	CA_2A-13A	2	20	18700	1860	QPSK/1#0
	CA_2A-66A	2	20	18700	1860	QPSK/1#0



	CA_4A-5A	4	20	20050	1720	QPSK/1#0
	CA_4A-13A	4	20	20050	1720	QPSK/1#0
	CA_5A-66A	5	10	20450	829	QPSK/1#0
	CA_13A-66A	13	10	23230	782	QPSK/1#0

SCC				
Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)
4	20	20300	1745	22.22
5	10	20600	844	21.74
13	10	23230	782	21.75
66	20	132572	1770	22.16
5	10	20600	844	21.56
13	10	23230	782	21.55
66	20	132572	1770	23.02
66	20	132572	1770	21.83

Effective Radiated Power and Effective Isotropic Radiated Power

LTE CA_48C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
55340	55538	QPSK	1	0	100	0	1	20.21	0.105
55891	56089	QPSK	1	0	100	0	1	20.26	0.106
56442	56640	QPSK	1	0	100	0	1	20.17	0.104

LTE CA_66B									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
132022	132121	QPSK	1	0	100	0	1	24.15	0.260
132373	132472	QPSK	1	0	100	0	1	24.39	0.275
132523	132622	QPSK	1	0	100	0	1	24.24	0.265



LTE CA_66C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
132072	132270	QPSK	1	0	100	0	1	24.03	0.253
132323	132521	QPSK	1	0	100	0	1	24.07	0.255
132374	132572	QPSK	1	0	100	0	1	24.12	0.258

Configure	CA Configuration	PCC				
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)
Inter-band	CA_2A-4A	2	20	18700	1860	QPSK/1#0
	CA_2A-5A	2	20	18700	1860	QPSK/1#0
	CA_2A-13A	2	20	18700	1860	QPSK/1#0
	CA_2A-66A	2	20	18700	1860	QPSK/1#0
	CA_4A-5A	4	20	20050	1720	QPSK/1#0
	CA_4A-13A	4	20	20050	1720	QPSK/1#0
	CA_5A-66A	5	10	20450	829	QPSK/1#0
	CA_13A-66A	13	10	23230	782	QPSK/1#0

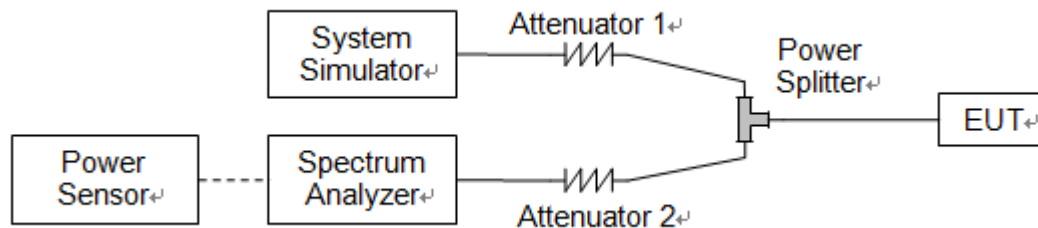
SCC					
Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	EIRP(W)
4	20	20300	1745	24.62	0.290
5	10	20600	844	24.14	0.259
13	10	23230	782	24.15	0.260
66	20	132572	1770	24.56	0.286
5	10	20600	844	23.49	0.223
13	10	23230	782	23.48	0.223
66	20	132572	1770	24.95	0.313
66	20	132572	1770	23.76	0.238
4	20	20300	1745	24.62	0.290

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



LTE Band	BW(MHz)	Channel Level	PCC CH	SCC CH	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
48C	5+20	Low	55273	55390	QPSK	22.804	23.741	PASS
48C	5+20	Low	55273	55390	16QAM	22.762	23.701	PASS
48C	5+20	Low	55273	55390	64QAM	22.472	23.419	PASS
48C	5+20	Low	55273	55390	256QAM	22.710	23.739	PASS
48C	5+20	Mid	55898	56015	QPSK	22.617	23.522	PASS
48C	5+20	Mid	55898	56015	16QAM	22.768	23.613	PASS
48C	5+20	Mid	55898	56015	64QAM	22.826	23.613	PASS
48C	5+20	Mid	55898	56015	256QAM	22.623	23.522	PASS
48C	5+20	High	56523	56640	QPSK	22.772	23.519	PASS
48C	5+20	High	56523	56640	16QAM	22.756	23.611	PASS
48C	5+20	High	56523	56640	64QAM	22.667	23.607	PASS
48C	5+20	High	56523	56640	256QAM	22.732	23.589	PASS
48C	10+20	Low	55295	55439	QPSK	27.686	28.922	PASS
48C	10+20	Low	55295	55439	16QAM	27.607	28.833	PASS
48C	10+20	Low	55295	55439	64QAM	27.594	28.859	PASS
48C	10+20	Low	55295	55439	256QAM	27.656	28.909	PASS
48C	10+20	Mid	55896	56040	QPSK	27.581	28.651	PASS
48C	10+20	Mid	55896	56040	16QAM	27.481	28.607	PASS
48C	10+20	Mid	55896	56040	64QAM	27.555	28.867	PASS
48C	10+20	Mid	55896	56040	256QAM	27.652	28.753	PASS
48C	10+20	High	56496	56640	QPSK	27.690	28.766	PASS
48C	10+20	High	56496	56640	16QAM	27.599	28.721	PASS
48C	10+20	High	56496	56640	64QAM	27.577	28.644	PASS
48C	10+20	High	56496	56640	256QAM	27.625	28.546	PASS
48C	15+20	Low	55318	55489	QPSK	32.555	34.127	PASS
48C	15+20	Low	55318	55489	16QAM	32.493	33.838	PASS
48C	15+20	Low	55318	55489	64QAM	32.436	34.079	PASS
48C	15+20	Low	55318	55489	256QAM	32.423	33.755	PASS
48C	15+20	Mid	55893	56064	QPSK	32.515	33.894	PASS
48C	15+20	Mid	55893	56064	16QAM	32.455	33.722	PASS
48C	15+20	Mid	55893	56064	64QAM	32.707	33.929	PASS
48C	15+20	Mid	55893	56064	256QAM	32.496	33.791	PASS
48C	15+20	High	56469	56640	QPSK	32.575	33.849	PASS
48C	15+20	High	56469	56640	16QAM	32.418	33.668	PASS
48C	15+20	High	56469	56640	64QAM	32.410	33.794	PASS



48C	15+20	High	56469	56640	256QAM	32.697	33.757	PASS
48C	20+5	Low	55340	55457	QPSK	22.836	23.862	PASS
48C	20+5	Low	55340	55457	16QAM	22.780	23.803	PASS
48C	20+5	Low	55340	55457	64QAM	22.788	23.879	PASS
48C	20+5	Low	55340	55457	256QAM	22.837	23.944	PASS
48C	20+10	Low	55340	55484	QPSK	27.680	28.980	PASS
48C	20+10	Low	55340	55484	16QAM	27.715	29.129	PASS
48C	20+10	Low	55340	55484	64QAM	27.713	29.237	PASS
48C	20+10	Low	55340	55484	256QAM	27.674	28.957	PASS
48C	20+15	Low	55340	55511	QPSK	32.574	33.721	PASS
48C	20+15	Low	55340	55511	16QAM	32.533	34.079	PASS
48C	20+15	Low	55340	55511	64QAM	32.540	33.772	PASS
48C	20+15	Low	55340	55511	256QAM	32.505	33.943	PASS
48C	20+20	Low	55340	55538	QPSK	37.337	38.919	PASS
48C	20+20	Low	55340	55538	16QAM	37.394	38.757	PASS
48C	20+20	Low	55340	55538	64QAM	37.491	38.743	PASS
48C	20+20	Low	55340	55538	256QAM	37.368	39.027	PASS
48C	20+5	Mid	55965	56082	QPSK	22.814	23.571	PASS
48C	20+5	Mid	55965	56082	16QAM	22.913	23.610	PASS
48C	20+5	Mid	55965	56082	64QAM	22.875	24.146	PASS
48C	20+5	Mid	55965	56082	256QAM	22.830	24.053	PASS
48C	20+10	Mid	55941	56085	QPSK	27.646	28.630	PASS
48C	20+10	Mid	55941	56085	16QAM	27.615	28.936	PASS
48C	20+10	Mid	55941	56085	64QAM	27.649	28.759	PASS
48C	20+10	Mid	55941	56085	256QAM	27.727	28.856	PASS
48C	20+15	Mid	55916	56087	QPSK	32.528	33.767	PASS
48C	20+15	Mid	55916	56087	16QAM	32.646	33.989	PASS
48C	20+15	Mid	55916	56087	64QAM	32.415	33.780	PASS
48C	20+15	Mid	55916	56087	256QAM	32.458	33.974	PASS
48C	20+20	Mid	55891	56089	QPSK	37.379	38.891	PASS
48C	20+20	Mid	55891	56089	16QAM	37.236	38.648	PASS
48C	20+20	Mid	55891	56089	64QAM	37.346	39.363	PASS
48C	20+20	Mid	55891	56089	256QAM	37.412	39.187	PASS
48C	20+5	High	56590	56707	QPSK	22.840	23.710	PASS
48C	20+5	High	56590	56707	16QAM	22.743	23.592	PASS
48C	20+5	High	56590	56707	64QAM	22.760	23.593	PASS
48C	20+5	High	56590	56707	256QAM	22.782	23.685	PASS
48C	20+10	High	56541	56685	QPSK	27.661	29.025	PASS



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48C	20+10	High	56541	56685	16QAM	27.725	28.916	PASS
48C	20+10	High	56541	56685	64QAM	27.625	28.713	PASS
48C	20+10	High	56541	56685	256QAM	27.699	28.802	PASS
48C	20+15	High	56491	56662	QPSK	32.490	33.749	PASS
48C	20+15	High	56491	56662	16QAM	32.601	33.841	PASS
48C	20+15	High	56491	56662	64QAM	32.524	33.886	PASS
48C	20+15	High	56491	56662	256QAM	32.575	33.865	PASS
48C	20+20	High	56442	56640	QPSK	37.297	39.082	PASS
48C	20+20	High	56442	56640	16QAM	37.515	39.121	PASS
48C	20+20	High	56442	56640	64QAM	37.458	39.001	PASS
48C	20+20	High	56442	56640	256QAM	37.272	39.269	PASS
66B	5+5	Low	131997	132045	QPSK	9.307	10.042	PASS
66B	5+5	Low	131997	132045	16QAM	9.250	9.978	PASS
66B	5+5	Low	131997	132045	64QAM	9.295	9.956	PASS
66B	5+5	Low	131997	132045	256QAM	9.284	10.011	PASS
66B	5+10	Low	132000	132072	QPSK	13.938	14.884	PASS
66B	5+10	Low	132000	132072	16QAM	13.893	14.858	PASS
66B	5+10	Low	132000	132072	64QAM	13.884	14.756	PASS
66B	5+10	Low	132000	132072	256QAM	13.926	14.748	PASS
66B	5+15	Low	132002	132095	QPSK	18.284	19.397	PASS
66B	5+15	Low	132002	132095	16QAM	18.235	19.388	PASS
66B	5+15	Low	132002	132095	64QAM	18.265	19.300	PASS
66B	5+15	Low	132002	132095	256QAM	18.258	19.377	PASS
66B	5+5	Mid	132398	132446	QPSK	9.267	10.085	PASS
66B	5+5	Mid	132398	132446	16QAM	9.299	10.025	PASS
66B	5+5	Mid	132398	132446	64QAM	9.261	10.032	PASS
66B	5+5	Mid	132398	132446	256QAM	9.255	10.079	PASS
66B	5+10	Mid	132375	132447	QPSK	13.908	14.827	PASS
66B	5+10	Mid	132375	132447	16QAM	13.901	14.752	PASS
66B	5+10	Mid	132375	132447	64QAM	13.900	14.818	PASS
66B	5+10	Mid	132375	132447	256QAM	13.931	14.832	PASS
66B	5+15	Mid	132353	132446	QPSK	18.301	19.372	PASS
66B	5+15	Mid	132353	132446	16QAM	18.330	19.352	PASS
66B	5+15	Mid	132353	132446	64QAM	18.265	19.289	PASS
66B	5+15	Mid	132353	132446	256QAM	18.250	19.316	PASS
66B	5+5	High	132599	132647	QPSK	9.302	9.924	PASS
66B	5+5	High	132599	132647	16QAM	9.260	10.003	PASS
66B	5+5	High	132599	132647	64QAM	9.288	10.009	PASS



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66B	5+5	High	132599	132647	256QAM	9.309	9.985	PASS
66B	5+10	High	132550	132622	QPSK	13.915	14.783	PASS
66B	5+10	High	132550	132622	16QAM	13.853	14.874	PASS
66B	5+10	High	132550	132622	64QAM	13.877	14.838	PASS
66B	5+10	High	132550	132622	256QAM	13.840	14.782	PASS
66B	5+15	High	132504	132597	QPSK	18.269	19.418	PASS
66B	5+15	High	132504	132597	16QAM	18.248	19.235	PASS
66B	5+15	High	132504	132597	64QAM	18.193	19.341	PASS
66B	5+15	High	132504	132597	256QAM	18.192	19.353	PASS
66B	10+5	Low	132022	132094	QPSK	13.954	15.062	PASS
66B	10+5	Low	132022	132094	16QAM	13.902	14.956	PASS
66B	10+5	Low	132022	132094	64QAM	13.915	15.004	PASS
66B	10+5	Low	132022	132094	256QAM	13.945	14.924	PASS
66B	10+10	Low	132022	132121	QPSK	18.872	20.043	PASS
66B	10+10	Low	132022	132121	16QAM	18.861	20.092	PASS
66B	10+10	Low	132022	132121	64QAM	18.851	20.346	PASS
66B	10+10	Low	132022	132121	256QAM	18.828	20.121	PASS
66B	10+5	Mid	132397	132469	QPSK	13.947	15.045	PASS
66B	10+5	Mid	132397	132469	16QAM	13.909	14.934	PASS
66B	10+5	Mid	132397	132469	64QAM	13.958	14.998	PASS
66B	10+5	Mid	132397	132469	256QAM	13.929	14.937	PASS
66B	10+10	Mid	132373	132472	QPSK	18.892	20.273	PASS
66B	10+10	Mid	132373	132472	16QAM	18.824	20.244	PASS
66B	10+10	Mid	132373	132472	64QAM	18.860	20.277	PASS
66B	10+10	Mid	132373	132472	256QAM	18.853	20.210	PASS
66B	10+5	High	132572	132644	QPSK	13.924	15.017	PASS
66B	10+5	High	132572	132644	16QAM	13.945	14.973	PASS
66B	10+5	High	132572	132644	64QAM	13.937	14.998	PASS
66B	10+5	High	132572	132644	256QAM	13.928	15.003	PASS
66B	10+10	High	132523	132622	QPSK	18.849	20.174	PASS
66B	10+10	High	132523	132622	16QAM	18.799	20.204	PASS
66B	10+10	High	132523	132622	64QAM	18.775	20.008	PASS
66B	10+10	High	132523	132622	256QAM	18.770	20.157	PASS
66B	15+5	Low	132047	132140	QPSK	18.312	19.672	PASS
66B	15+5	Low	132047	132140	16QAM	18.305	19.598	PASS
66B	15+5	Low	132047	132140	64QAM	18.304	19.619	PASS
66B	15+5	Low	132047	132140	256QAM	18.289	19.690	PASS
66B	15+5	Mid	132398	132491	QPSK	18.293	19.748	PASS



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66B	15+5	Mid	132398	132491	16QAM	18.323	19.694	PASS
66B	15+5	Mid	132398	132491	64QAM	18.305	19.682	PASS
66B	15+5	Mid	132398	132491	256QAM	18.276	19.536	PASS
66B	15+5	High	132549	132642	QPSK	18.299	19.701	PASS
66B	15+5	High	132549	132642	16QAM	18.256	19.642	PASS
66B	15+5	High	132549	132642	64QAM	18.286	19.636	PASS
66B	15+5	High	132549	132642	256QAM	18.310	19.630	PASS
66C	5+20	Low	132005	132122	QPSK	22.808	23.772	PASS
66C	5+20	Low	132005	132122	16QAM	22.838	23.785	PASS
66C	5+20	Low	132005	132122	64QAM	22.822	23.756	PASS
66C	5+20	Low	132005	132122	256QAM	22.794	23.718	PASS
66C	5+20	Mid	132330	132447	QPSK	22.813	23.702	PASS
66C	5+20	Mid	132330	132447	16QAM	22.723	23.737	PASS
66C	5+20	Mid	132330	132447	64QAM	22.764	23.844	PASS
66C	5+20	Mid	132330	132447	256QAM	22.755	23.743	PASS
66C	5+20	High	132455	132572	QPSK	22.745	23.707	PASS
66C	5+20	High	132455	132572	16QAM	22.667	23.667	PASS
66C	5+20	High	132455	132572	64QAM	22.771	23.677	PASS
66C	5+20	High	132455	132572	256QAM	22.769	23.676	PASS
66C	10+15	Low	132025	132145	QPSK	23.058	24.357	PASS
66C	10+15	Low	132025	132145	16QAM	23.028	24.201	PASS
66C	10+15	Low	132025	132145	64QAM	23.076	24.312	PASS
66C	10+15	Low	132025	132145	256QAM	23.071	24.262	PASS
66C	10+20	Low	132027	132171	QPSK	27.759	28.990	PASS
66C	10+20	Low	132027	132171	16QAM	27.640	28.891	PASS
66C	10+20	Low	132027	132171	64QAM	27.732	28.929	PASS
66C	10+20	Low	132027	132171	256QAM	27.740	28.921	PASS
66C	10+15	Mid	132351	132471	QPSK	23.058	24.254	PASS
66C	10+15	Mid	132351	132471	16QAM	23.063	24.265	PASS
66C	10+15	Mid	132351	132471	64QAM	23.127	24.180	PASS
66C	10+15	Mid	132351	132471	256QAM	23.074	24.196	PASS
66C	10+20	Mid	132328	132472	QPSK	27.693	28.979	PASS
66C	10+20	Mid	132328	132472	16QAM	27.674	28.883	PASS
66C	10+20	Mid	132328	132472	64QAM	27.655	28.857	PASS
66C	10+20	Mid	132328	132472	256QAM	27.557	28.889	PASS
66C	10+15	High	132477	132597	QPSK	22.997	24.167	PASS
66C	10+15	High	132477	132597	16QAM	23.003	24.285	PASS
66C	10+15	High	132477	132597	64QAM	22.997	24.120	PASS



66C	10+15	High	132477	132597	256QAM	22.985	24.217	PASS
66C	10+20	High	132428	132572	QPSK	27.644	28.935	PASS
66C	10+20	High	132428	132572	16QAM	27.605	28.984	PASS
66C	10+20	High	132428	132572	64QAM	27.636	28.802	PASS
66C	10+20	High	132428	132572	256QAM	27.523	28.860	PASS
66C	15+10	Low	132047	132167	QPSK	23.162	24.372	PASS
66C	15+10	Low	132047	132167	16QAM	23.105	24.451	PASS
66C	15+10	Low	132047	132167	64QAM	23.128	24.376	PASS
66C	15+10	Low	132047	132167	256QAM	23.140	24.417	PASS
66C	15+15	Low	132047	132197	QPSK	28.230	29.607	PASS
66C	15+15	Low	132047	132197	16QAM	28.269	29.596	PASS
66C	15+15	Low	132047	132197	64QAM	28.336	29.776	PASS
66C	15+15	Low	132047	132197	256QAM	28.241	29.829	PASS
66C	15+20	Low	132050	132221	QPSK	32.572	34.228	PASS
66C	15+20	Low	132050	132221	16QAM	32.567	34.184	PASS
66C	15+20	Low	132050	132221	64QAM	32.520	34.065	PASS
66C	15+20	Low	132050	132221	256QAM	32.557	33.989	PASS
66C	15+10	Mid	132373	132493	QPSK	23.060	24.363	PASS
66C	15+10	Mid	132373	132493	16QAM	23.134	24.623	PASS
66C	15+10	Mid	132373	132493	64QAM	23.104	24.490	PASS
66C	15+10	Mid	132373	132493	256QAM	23.107	24.364	PASS
66C	15+15	Mid	132347	132497	QPSK	28.228	29.561	PASS
66C	15+15	Mid	132347	132497	16QAM	28.233	29.774	PASS
66C	15+15	Mid	132347	132497	64QAM	28.297	29.505	PASS
66C	15+15	Mid	132347	132497	256QAM	28.272	29.707	PASS
66C	15+20	Mid	132325	132496	QPSK	32.569	34.004	PASS
66C	15+20	Mid	132325	132496	16QAM	32.600	34.230	PASS
66C	15+20	Mid	132325	132496	64QAM	32.514	34.329	PASS
66C	15+20	Mid	132325	132496	256QAM	32.586	34.124	PASS
66C	15+10	High	132499	132619	QPSK	23.055	24.330	PASS
66C	15+10	High	132499	132619	16QAM	23.064	24.413	PASS
66C	15+10	High	132499	132619	64QAM	23.078	24.293	PASS
66C	15+10	High	132499	132619	256QAM	23.021	24.420	PASS
66C	15+15	High	132447	132597	QPSK	28.251	29.733	PASS
66C	15+15	High	132447	132597	16QAM	28.263	29.761	PASS
66C	15+15	High	132447	132597	64QAM	28.199	29.795	PASS
66C	15+15	High	132447	132597	256QAM	28.191	29.631	PASS
66C	15+20	High	132401	132572	QPSK	32.504	34.009	PASS



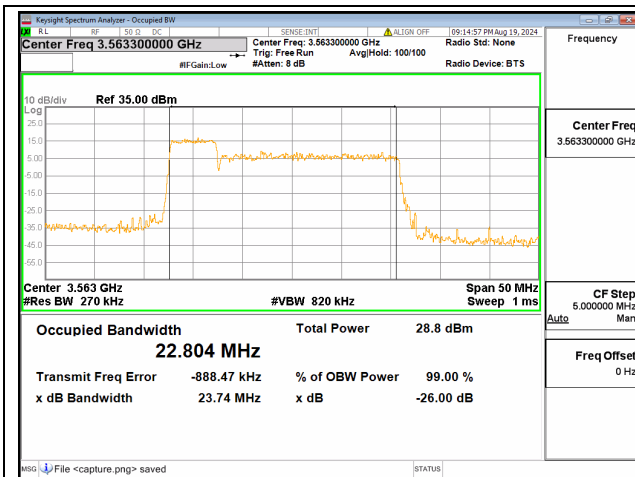
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66C	15+20	High	132401	132572	16QAM	32.511	34.091	PASS
66C	15+20	High	132401	132572	64QAM	32.458	34.334	PASS
66C	15+20	High	132401	132572	256QAM	32.603	34.043	PASS
66C	20+10	Low	132072	132216	QPSK	27.709	29.276	PASS
66C	20+10	Low	132072	132216	16QAM	27.689	29.184	PASS
66C	20+10	Low	132072	132216	64QAM	27.716	29.123	PASS
66C	20+10	Low	132072	132216	256QAM	27.756	29.323	PASS
66C	20+15	Low	132072	132243	QPSK	32.668	34.131	PASS
66C	20+15	Low	132072	132243	16QAM	32.594	34.192	PASS
66C	20+15	Low	132072	132243	64QAM	32.561	34.114	PASS
66C	20+15	Low	132072	132243	256QAM	32.624	34.257	PASS
66C	20+5	Low	132072	132189	QPSK	22.844	24.017	PASS
66C	20+5	Low	132072	132189	16QAM	22.857	24.027	PASS
66C	20+5	Low	132072	132189	64QAM	22.869	23.920	PASS
66C	20+5	Low	132072	132189	256QAM	22.859	23.981	PASS
66C	20+20	Low	132072	132270	QPSK	37.421	39.181	PASS
66C	20+20	Low	132072	132270	16QAM	37.391	39.373	PASS
66C	20+20	Low	132072	132270	64QAM	37.484	39.598	PASS
66C	20+20	Low	132072	132270	256QAM	37.409	39.219	PASS
66C	20+10	Mid	132373	132517	QPSK	27.737	29.289	PASS
66C	20+10	Mid	132373	132517	16QAM	27.761	29.064	PASS
66C	20+10	Mid	132373	132517	64QAM	27.696	29.286	PASS
66C	20+10	Mid	132373	132517	256QAM	27.727	29.067	PASS
66C	20+15	Mid	132348	132519	QPSK	32.590	34.208	PASS
66C	20+15	Mid	132348	132519	16QAM	32.574	34.175	PASS
66C	20+15	Mid	132348	132519	64QAM	32.570	34.417	PASS
66C	20+15	Mid	132348	132519	256QAM	32.548	34.141	PASS
66C	20+5	Mid	132397	132514	QPSK	22.830	23.966	PASS
66C	20+5	Mid	132397	132514	16QAM	22.861	23.985	PASS
66C	20+5	Mid	132397	132514	64QAM	22.868	24.124	PASS
66C	20+5	Mid	132397	132514	256QAM	22.871	24.097	PASS
66C	20+20	Mid	132323	132521	QPSK	37.489	39.476	PASS
66C	20+20	Mid	132323	132521	16QAM	37.420	39.307	PASS
66C	20+20	Mid	132323	132521	64QAM	37.521	39.446	PASS
66C	20+20	Mid	132323	132521	256QAM	37.492	39.215	PASS
66C	20+10	High	132473	132617	QPSK	27.673	29.335	PASS
66C	20+10	High	132473	132617	16QAM	27.731	29.123	PASS
66C	20+10	High	132473	132617	64QAM	27.662	29.037	PASS

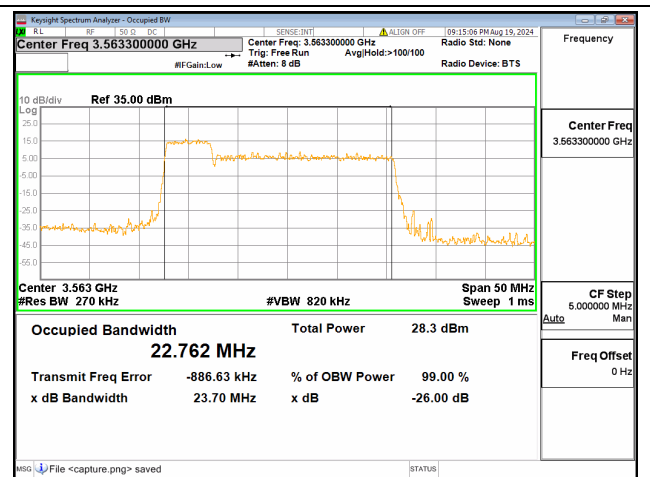


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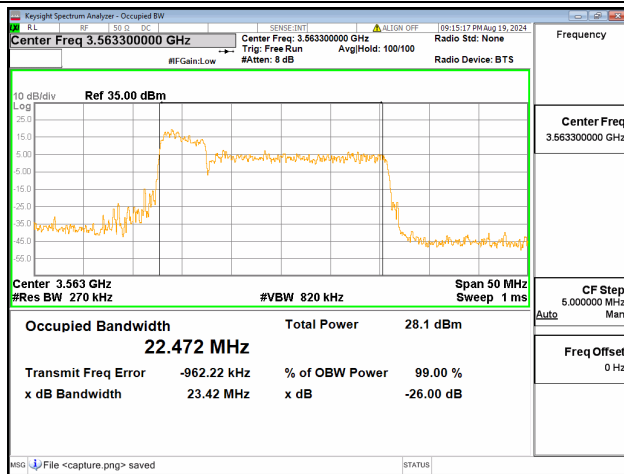
66C	20+10	High	132473	132617	256QAM	27.716	29.319	PASS
66C	20+15	High	132423	132594	QPSK	32.473	34.292	PASS
66C	20+15	High	132423	132594	16QAM	32.555	34.411	PASS
66C	20+15	High	132423	132594	64QAM	32.586	34.251	PASS
66C	20+15	High	132423	132594	256QAM	32.474	34.412	PASS
66C	20+5	High	132522	132639	QPSK	22.833	24.127	PASS
66C	20+5	High	132522	132639	16QAM	22.808	24.091	PASS
66C	20+5	High	132522	132639	64QAM	22.803	23.927	PASS
66C	20+5	High	132522	132639	256QAM	22.859	24.036	PASS
66C	20+20	High	132374	132572	QPSK	37.479	39.301	PASS
66C	20+20	High	132374	132572	16QAM	37.522	39.528	PASS
66C	20+20	High	132374	132572	64QAM	37.399	39.319	PASS
66C	20+20	High	132374	132572	256QAM	37.510	39.113	PASS



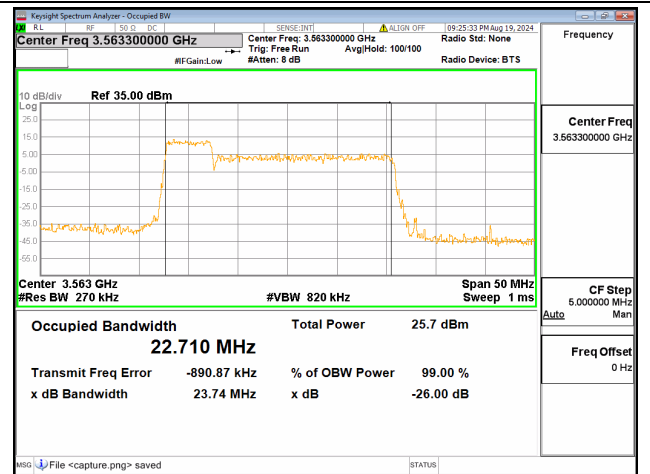
48C / 5+20MHz / QPSK/ Low CH



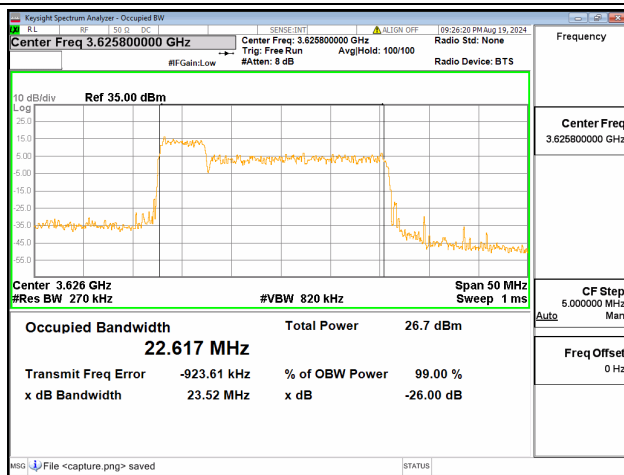
48C / 5+20MHz / 16QAM/ Low CH



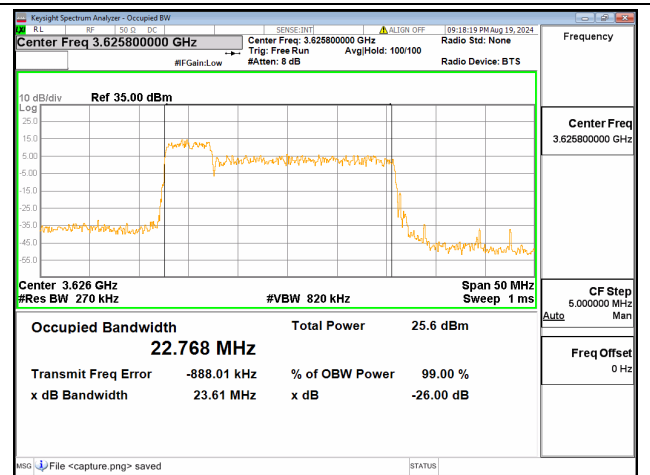
48C / 5+20MHz / 64QAM/ Low CH



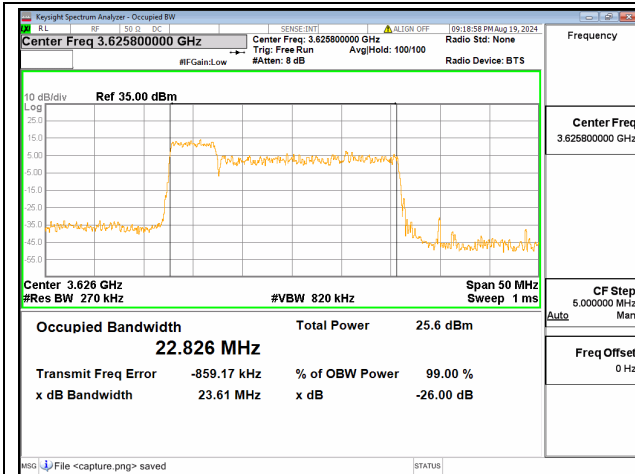
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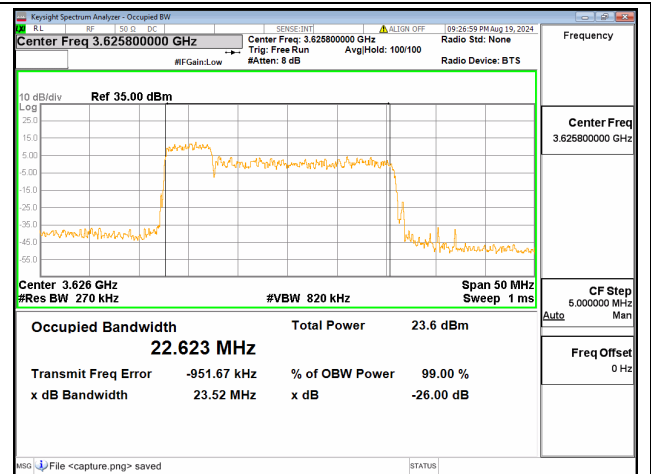
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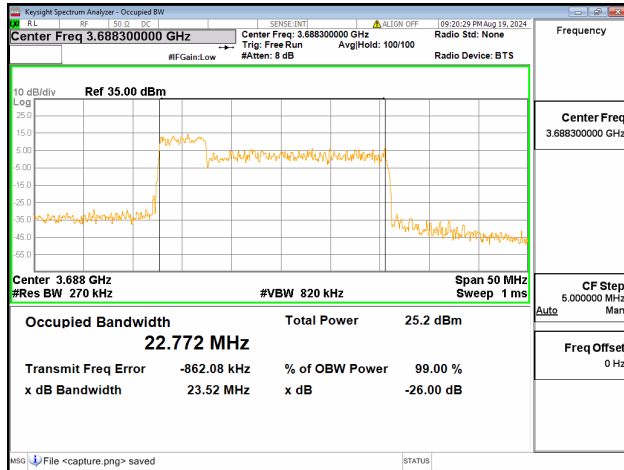
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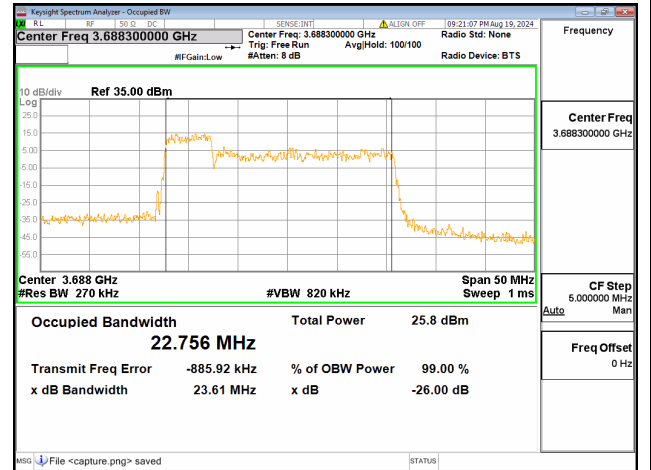
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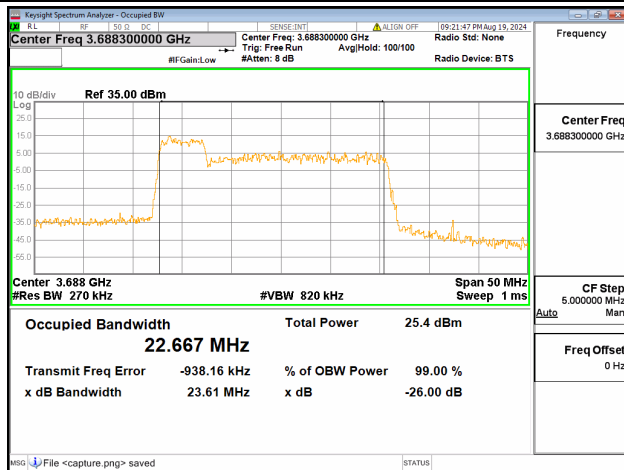
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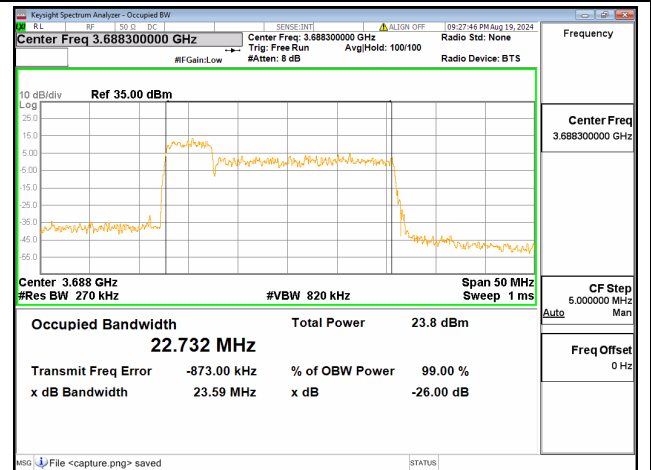
48C / 5+20MHz / QPSK/ High CH



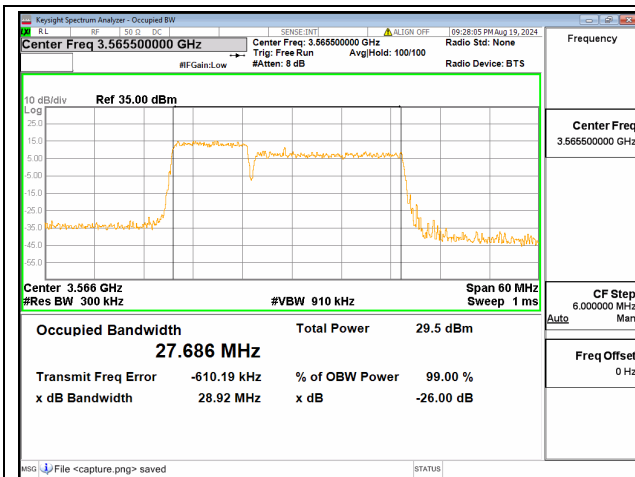
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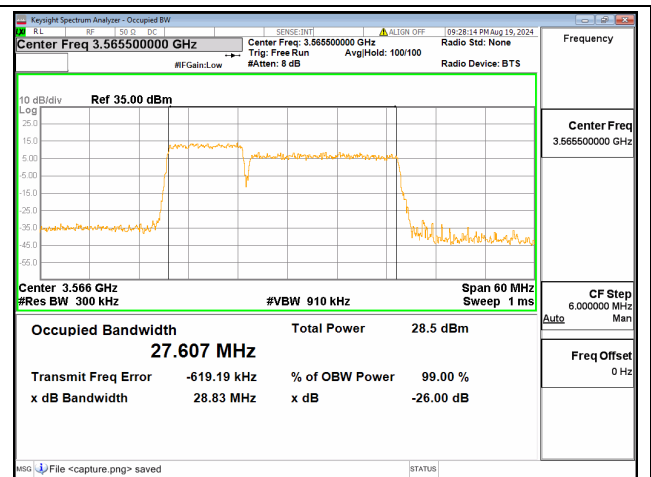
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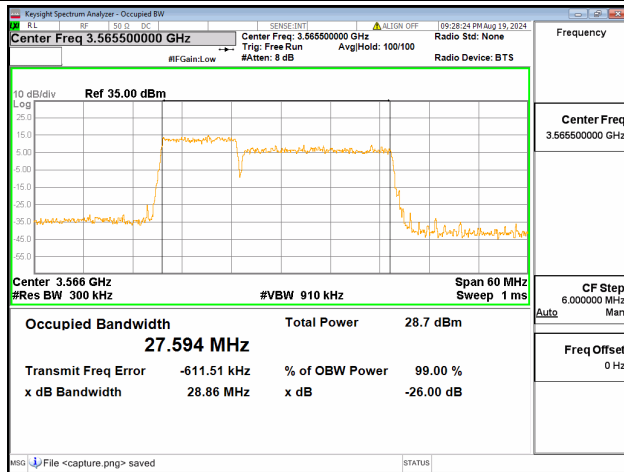
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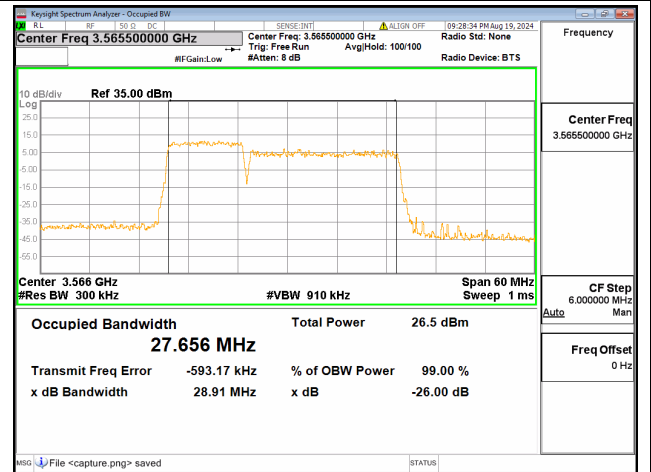
48C / 10+20MHz / QPSK/ Low CH



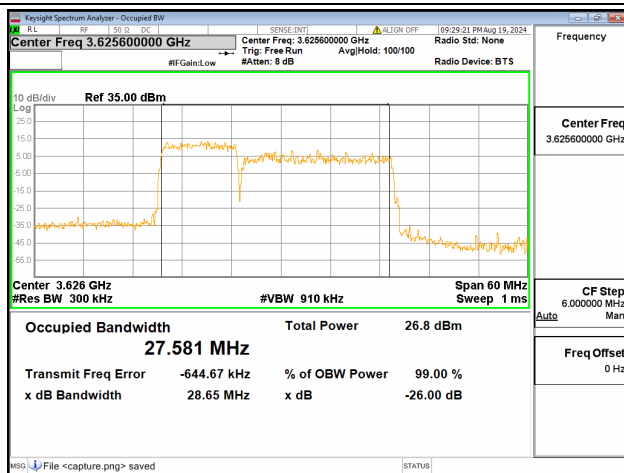
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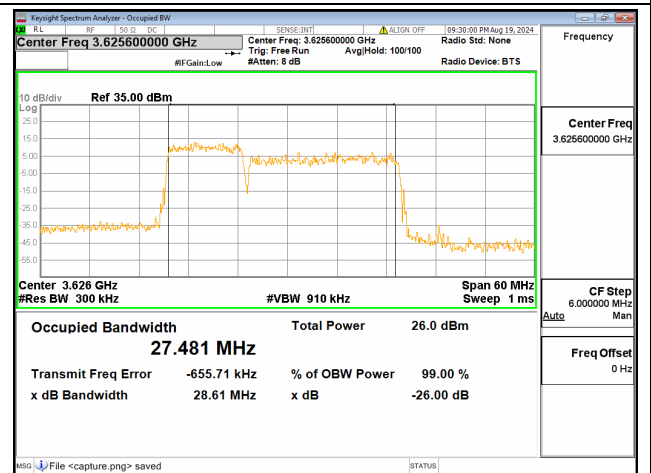
48C / 10+20MHz / 64QAM/ Low CH



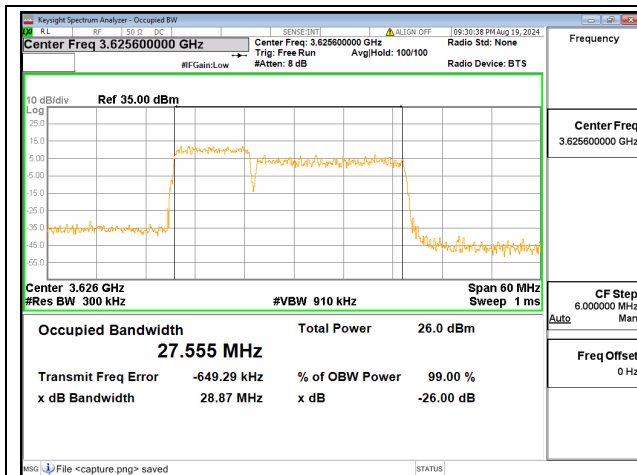
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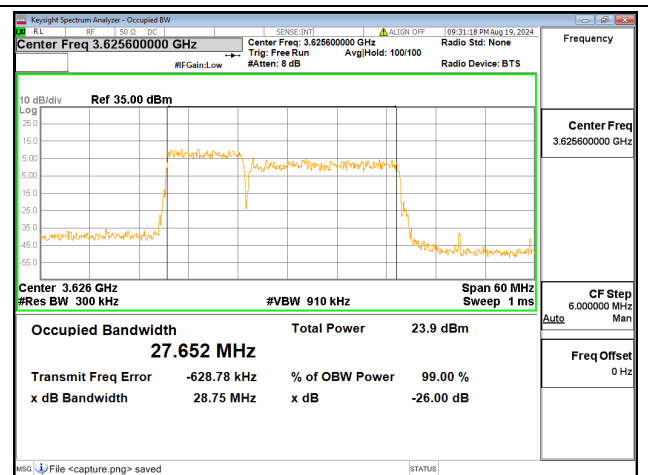
48C / 10+20MHz / QPSK/ Mid CH



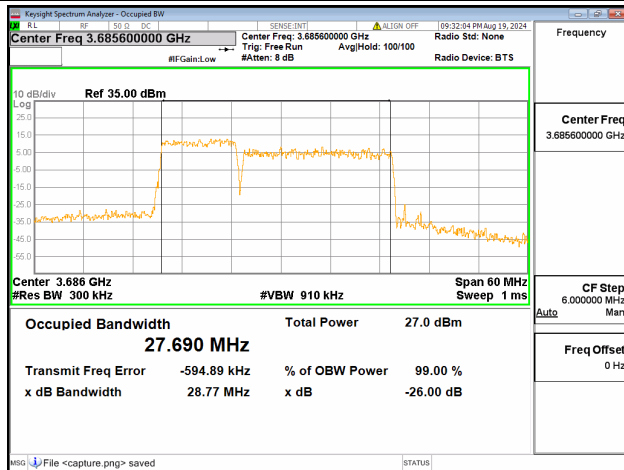
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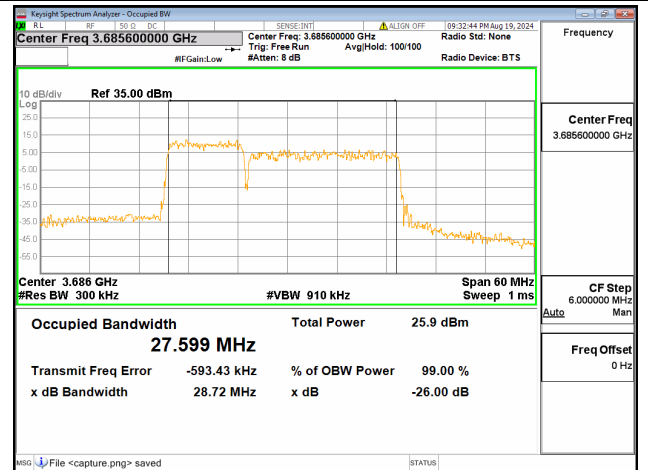
48C / 10+20MHz / 64QAM/ Mid CH



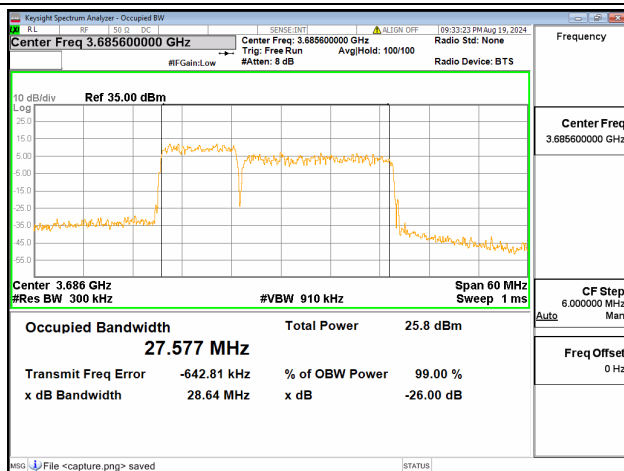
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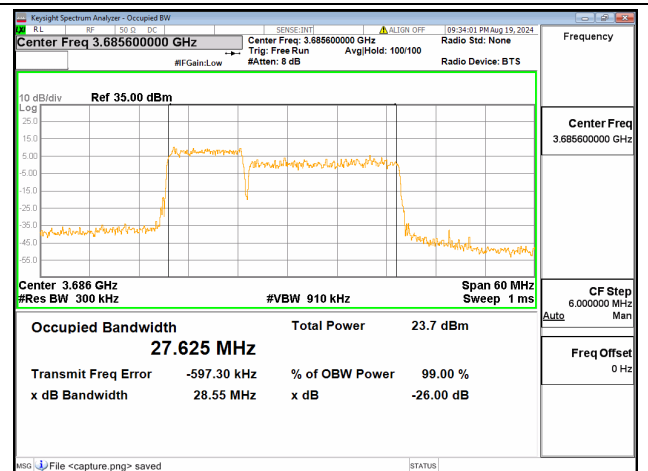
48C / 10+20MHz / QPSK/ High CH



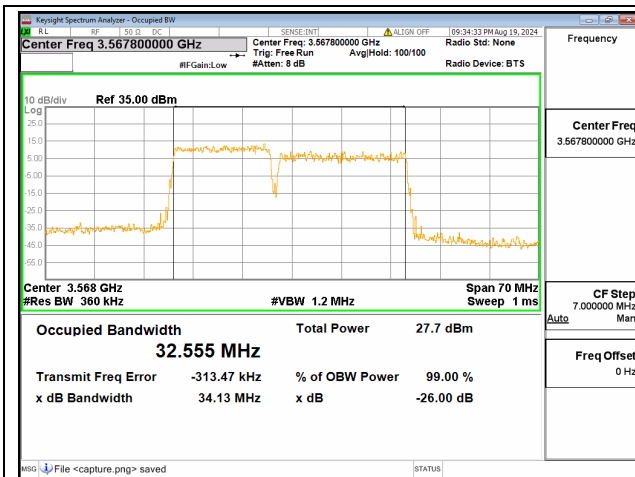
48C / 10+20MHz / 16QAM/ High CH



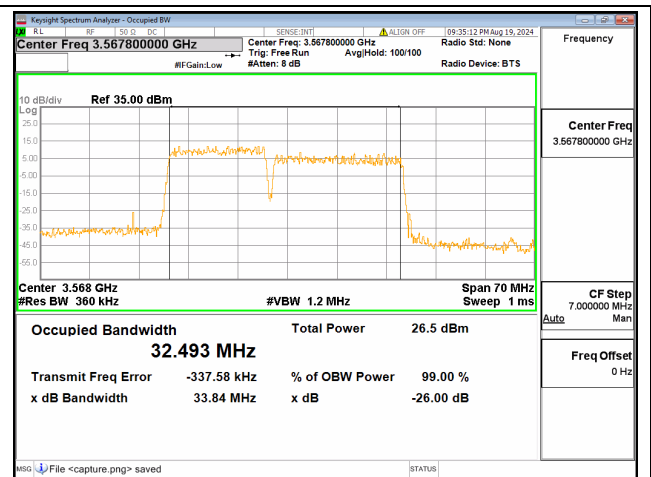
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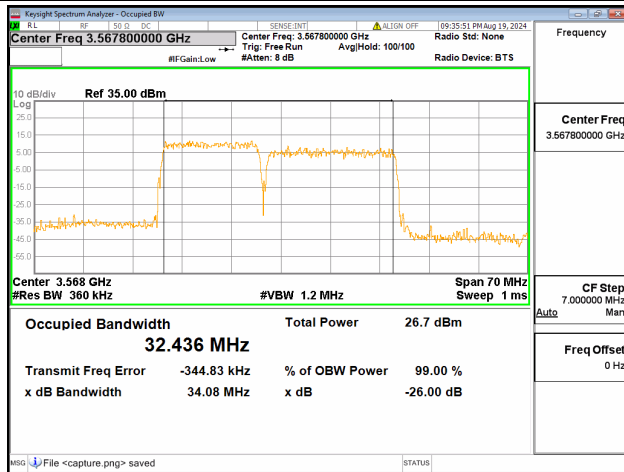
48C / 10+20MHz / 256QAM/ High CH



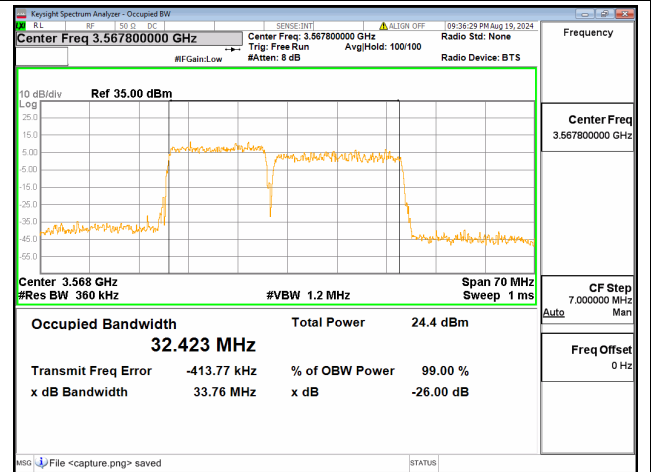
48C / 15+20MHz / QPSK/ Low CH



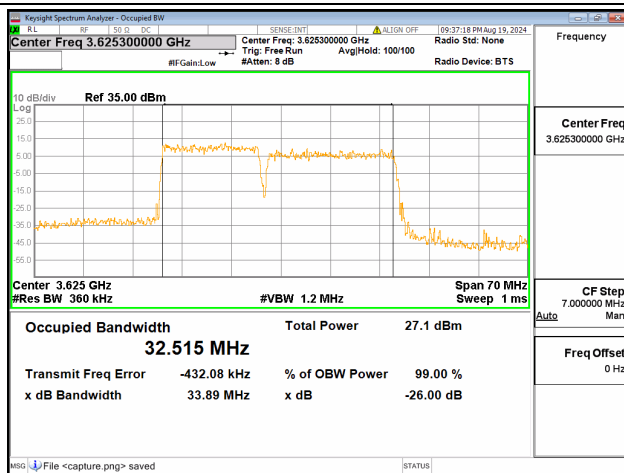
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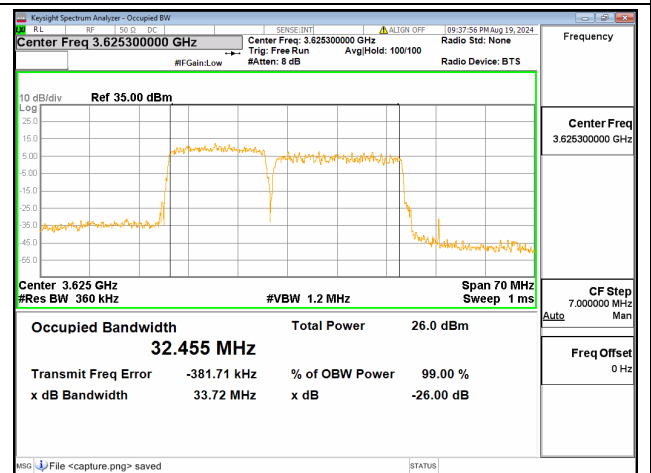
48C / 15+20MHz / 64QAM/ Low CH



48C / 15+20MHz / 256QAM/ Low CH

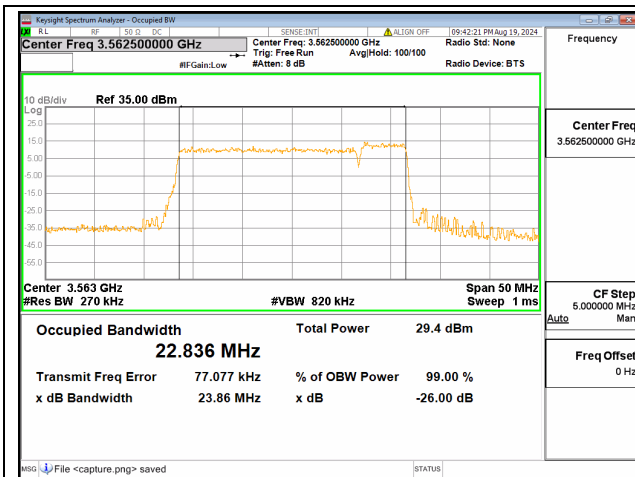


48C / 15+20MHz / QPSK/ Mid CH

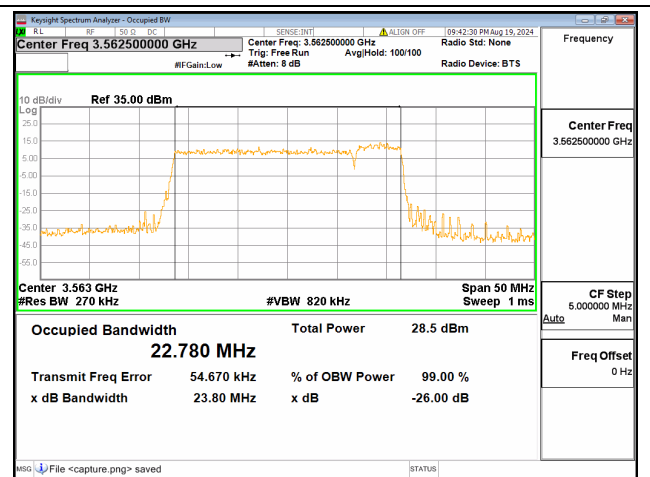


48C / 15+20MHz / 16QAM/ Mid CH

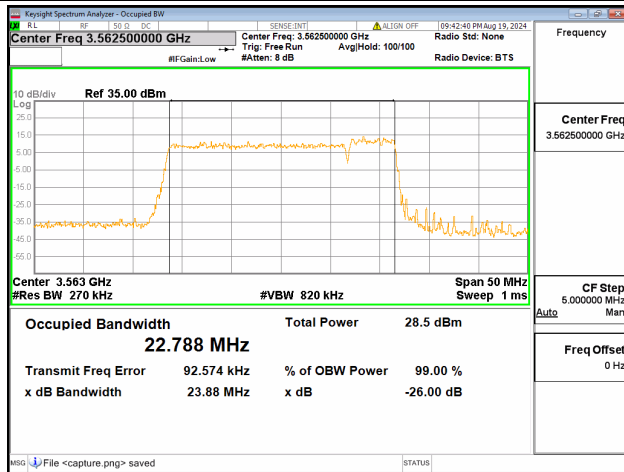




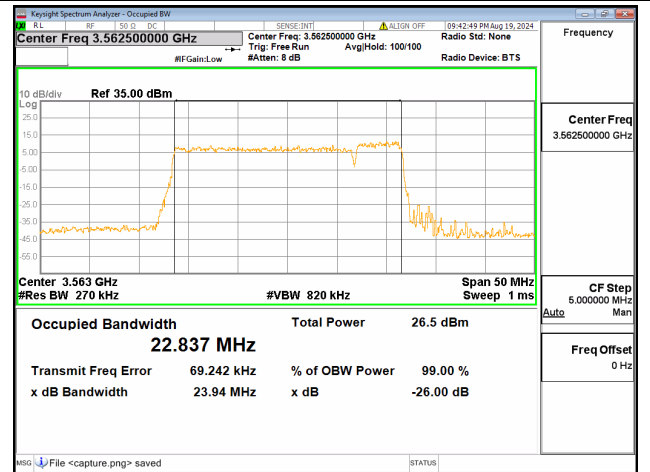
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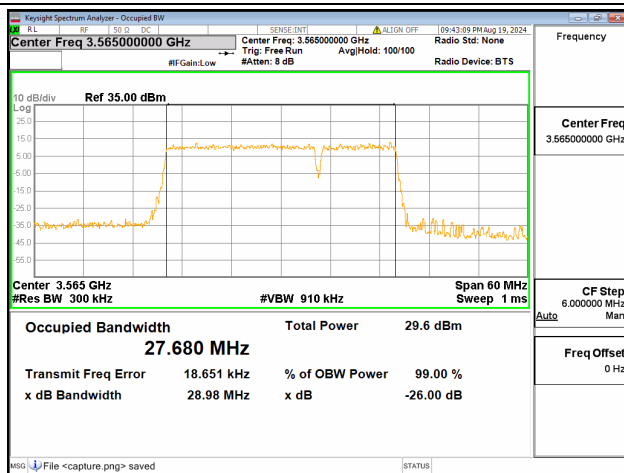
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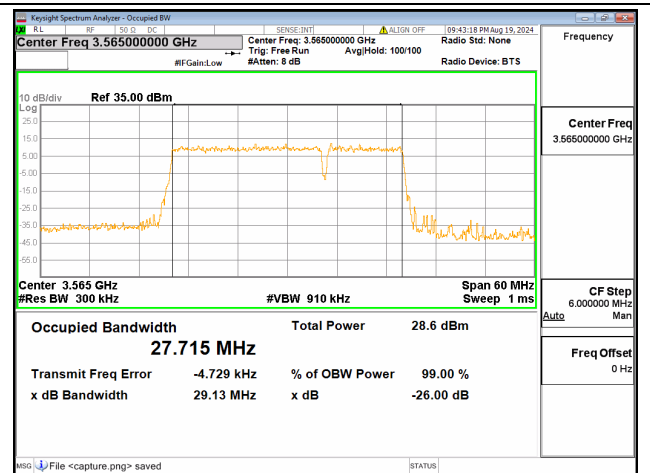
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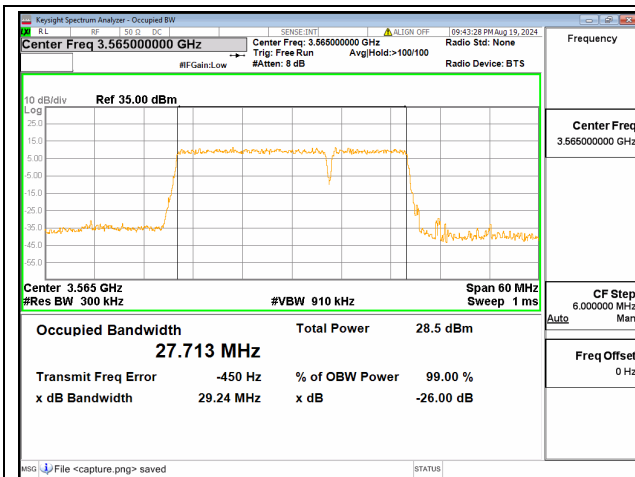
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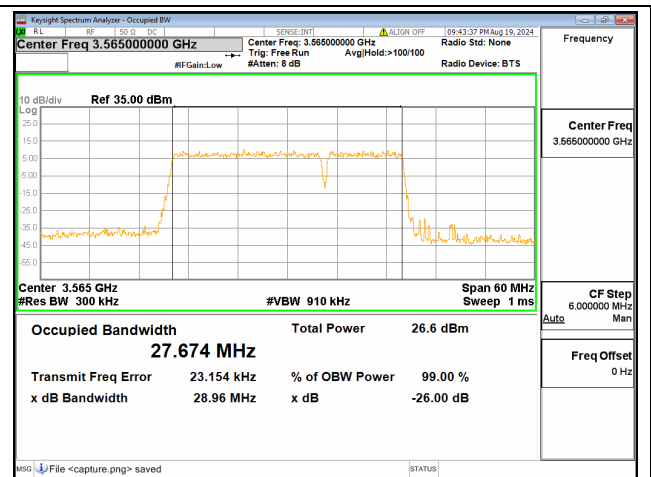
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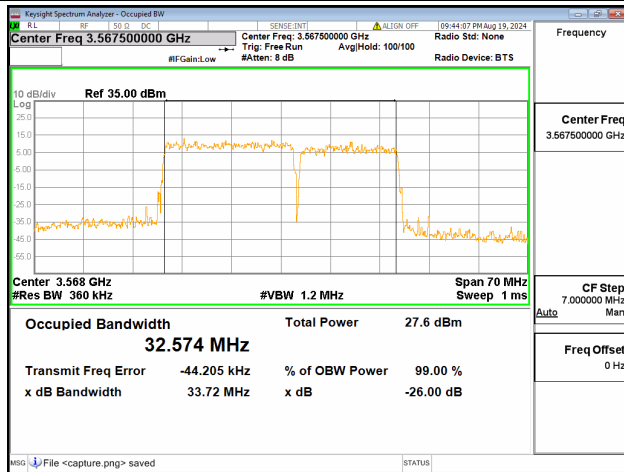
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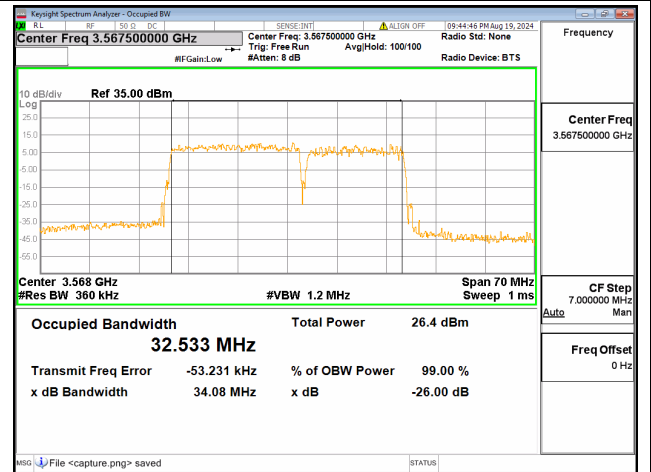
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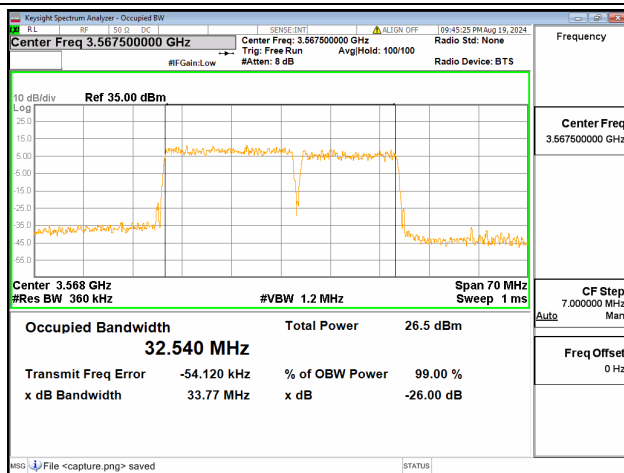
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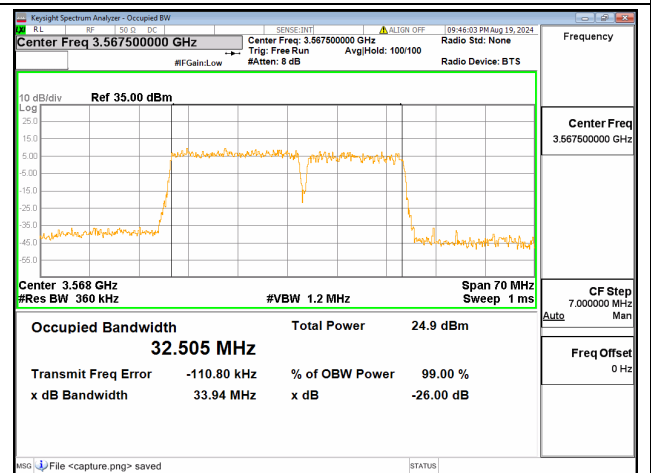
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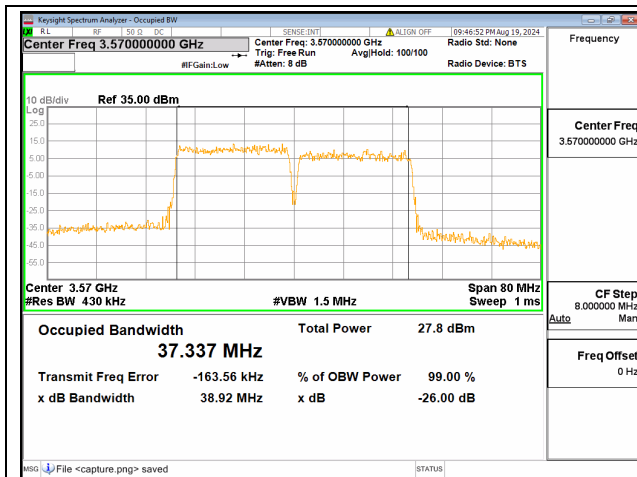
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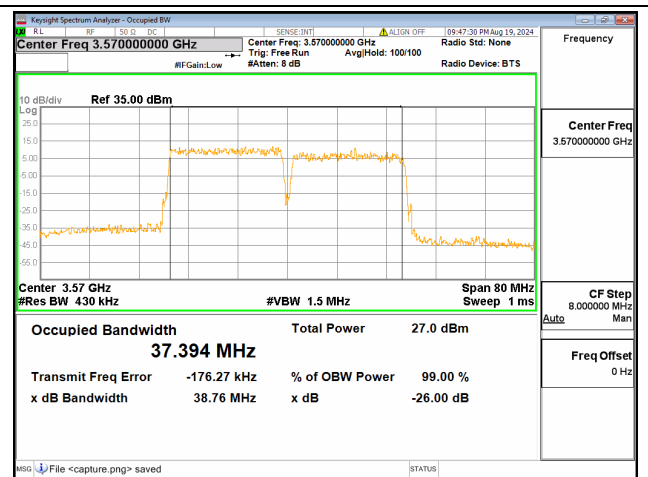
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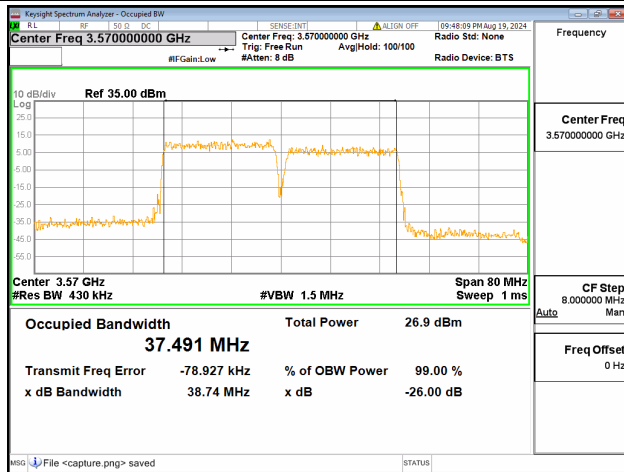
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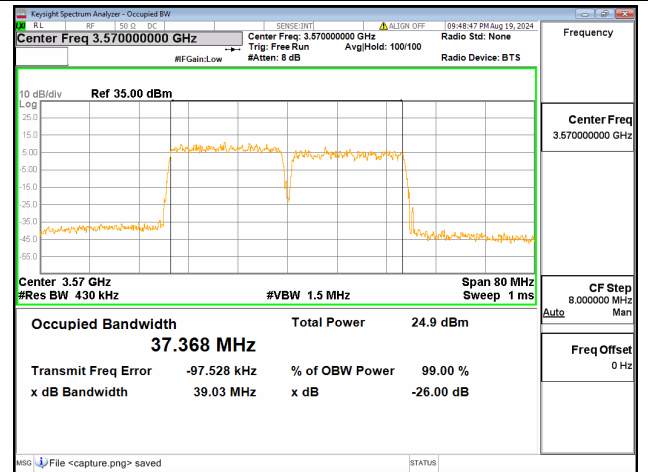
48C / 20+20MHz / QPSK/ Low CH



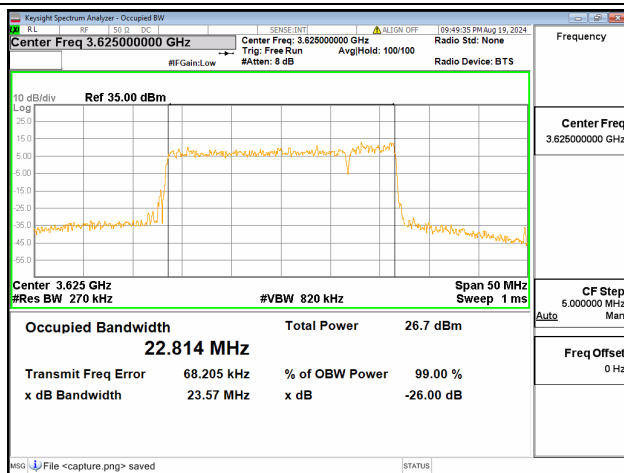
48C / 20+20MHz / 16QAM/ Low CH



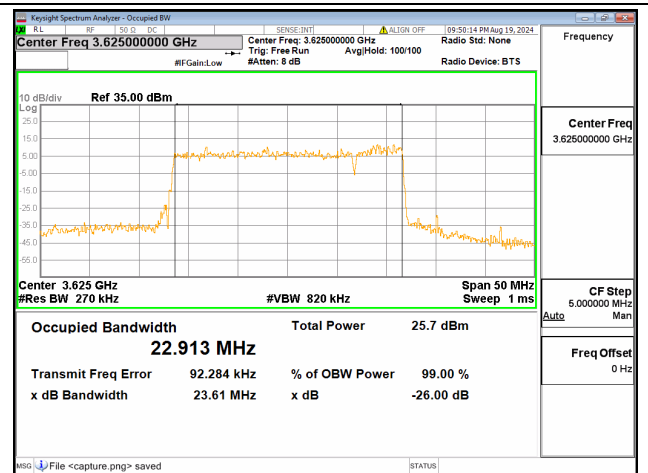
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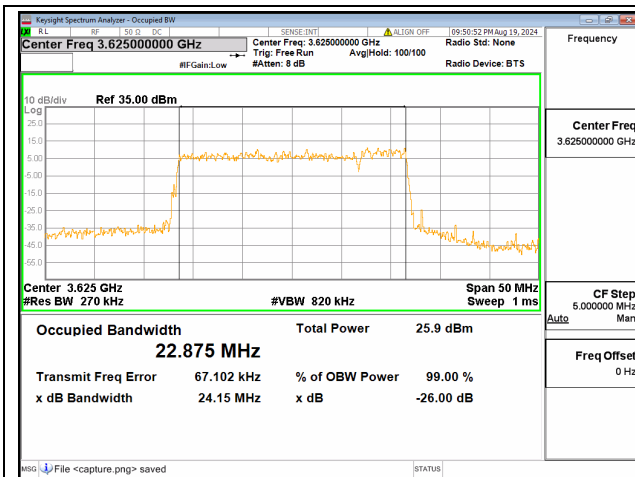
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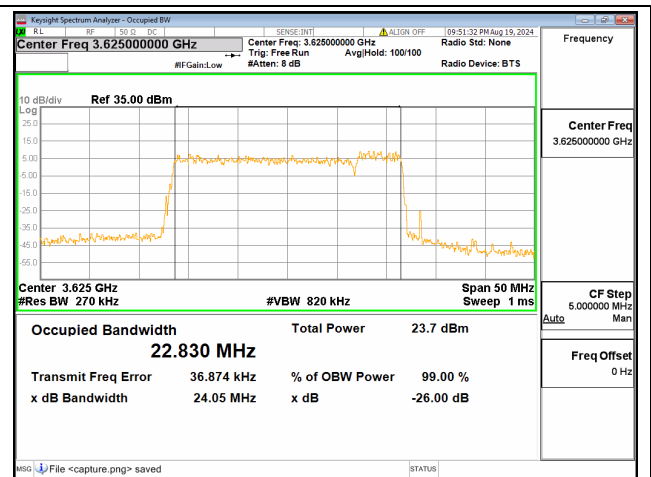
48C / 20+5MHz / QPSK/ Mid CH



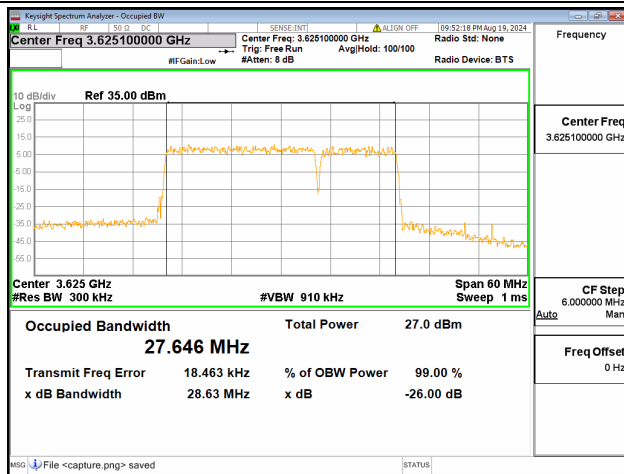
48C / 20+5MHz / 16QAM/ Mid CH



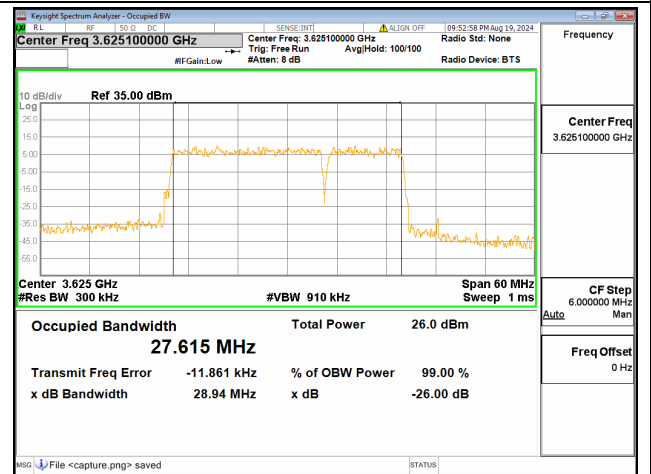
48C / 20+5MHz / 64QAM/ Mid CH



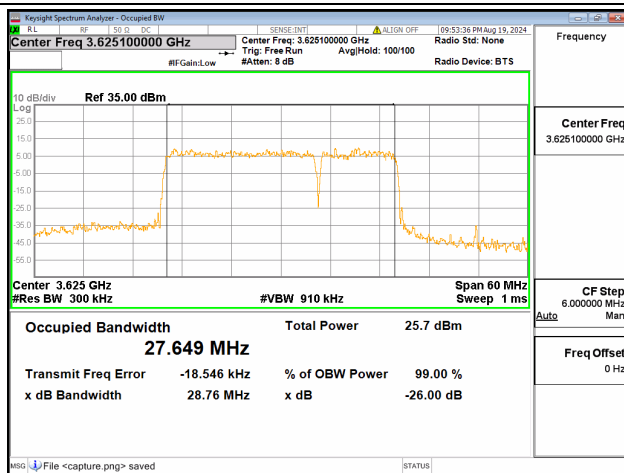
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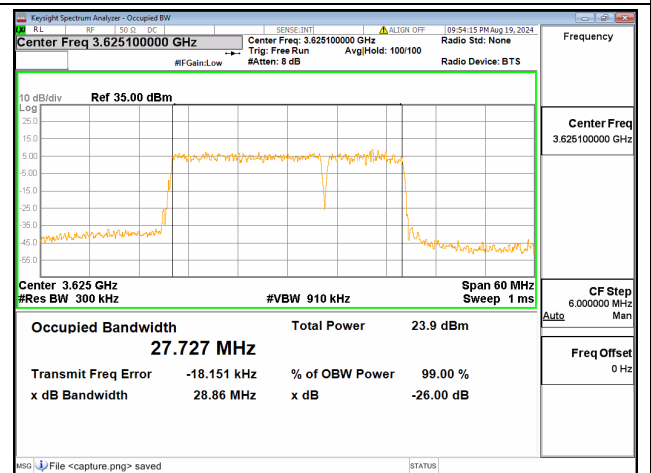
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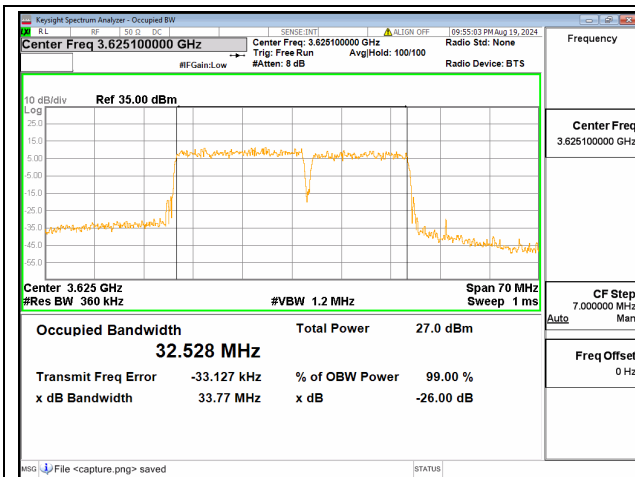
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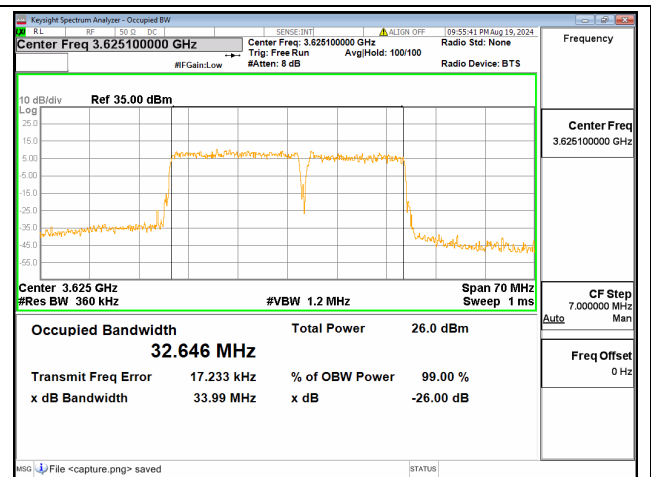
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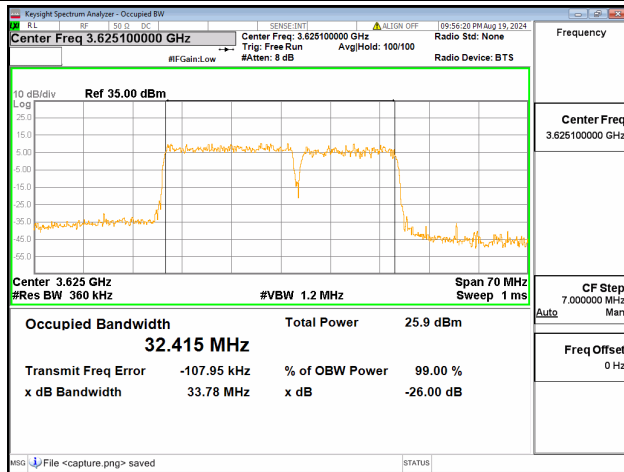
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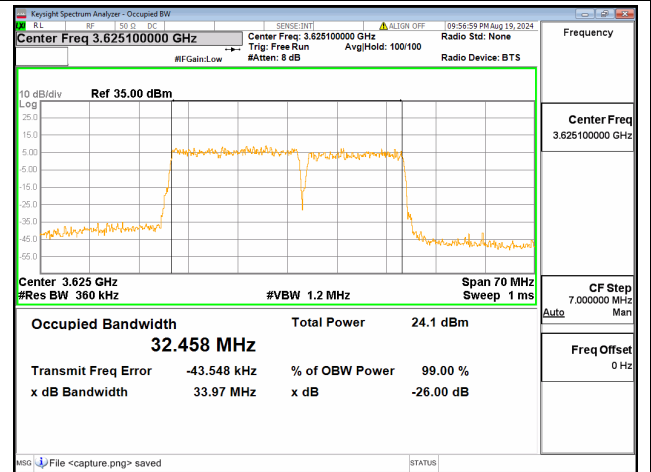
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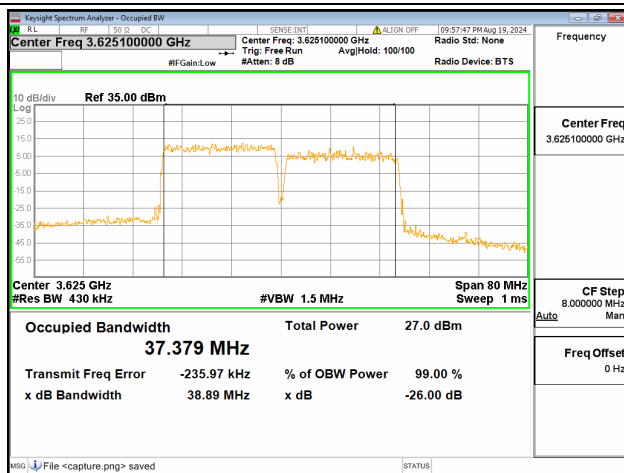
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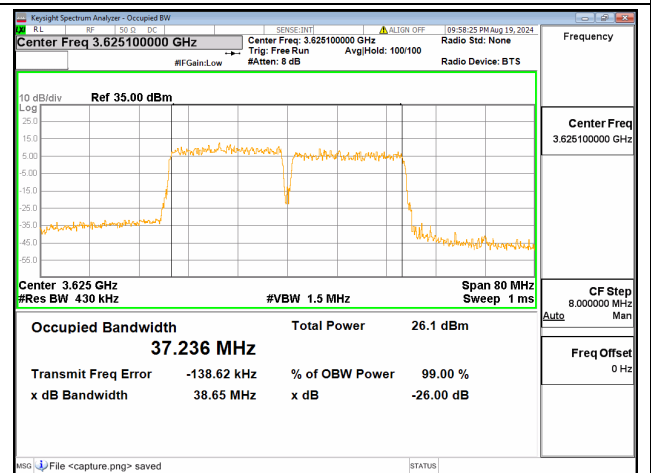
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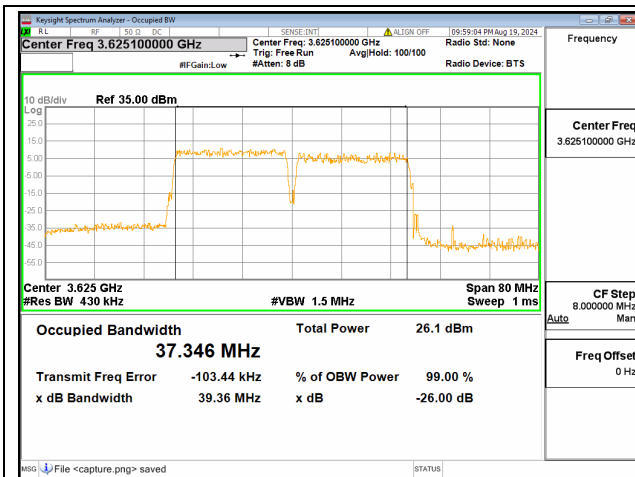
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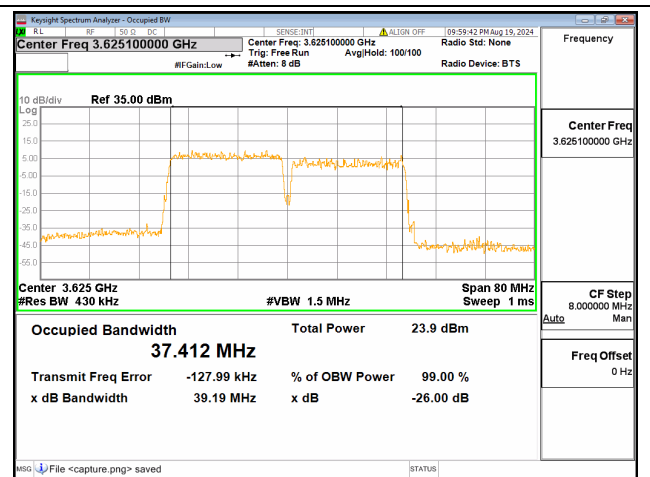
48C / 20+20MHz / QPSK/ Mid CH



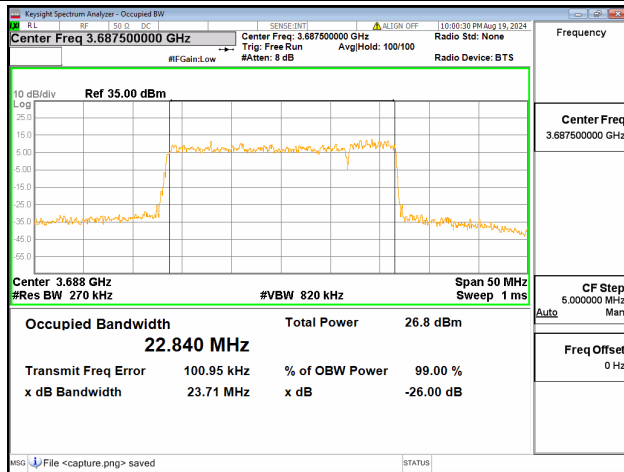
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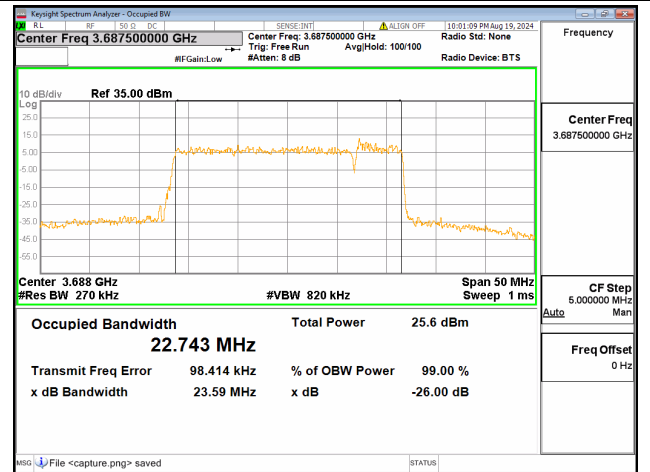
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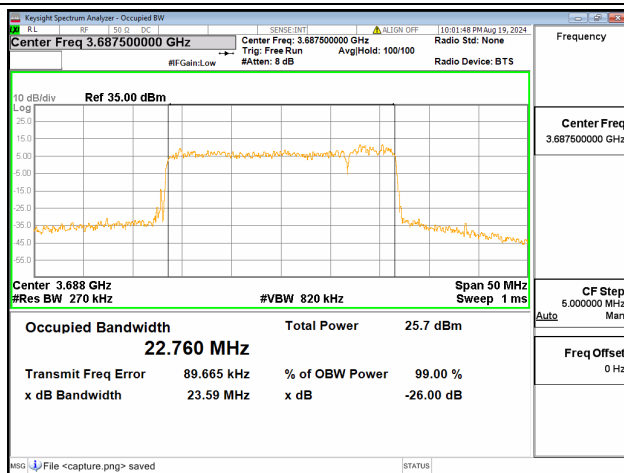
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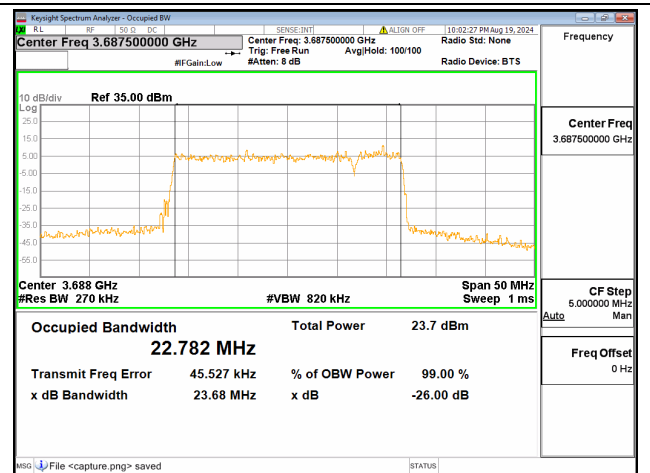
48C / 20+5MHz / QPSK/ High CH



48C / 20+5MHz / 16QAM/ High CH

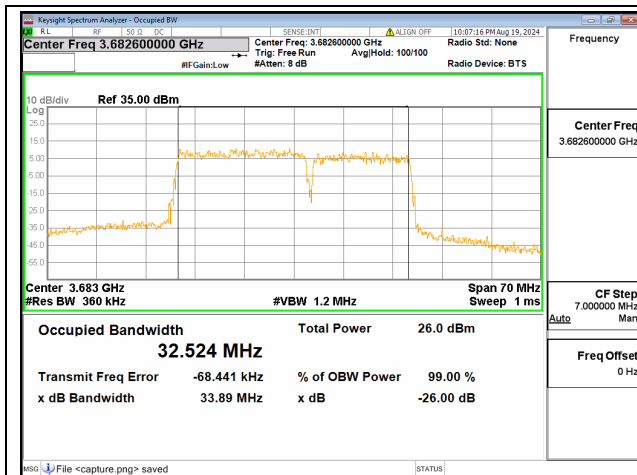


48C / 20+5MHz / 64QAM/ High CH

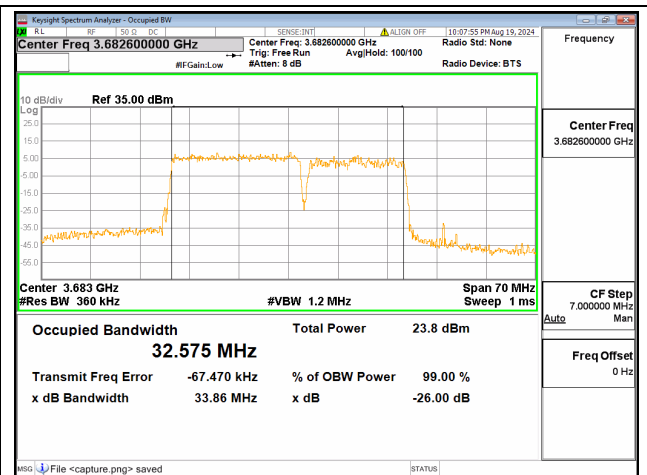


48C / 20+5MHz / 256QAM/ High CH

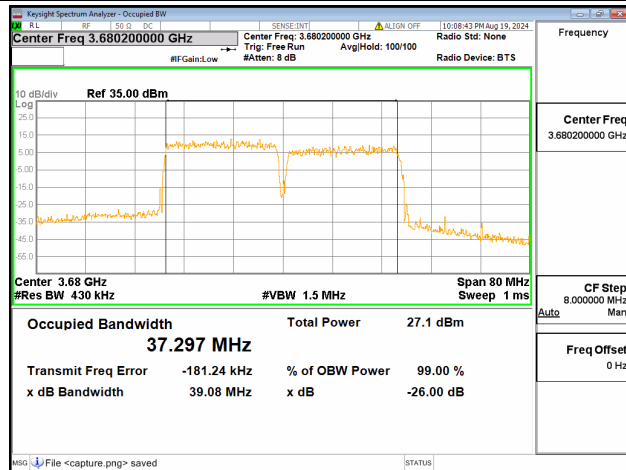




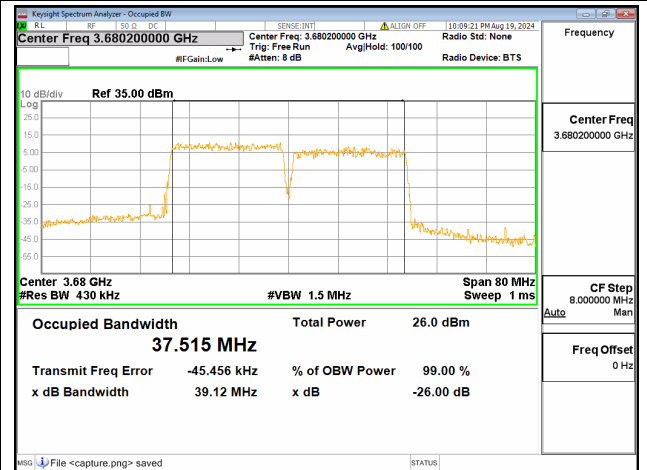
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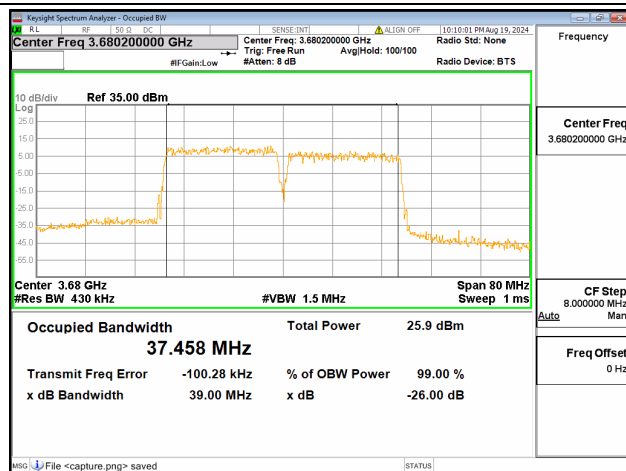
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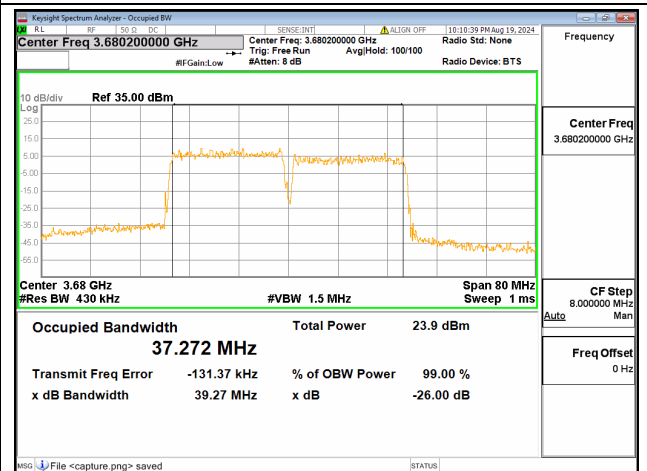
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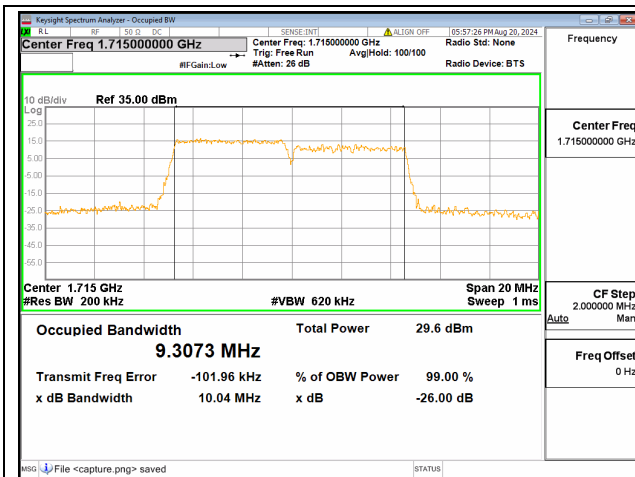
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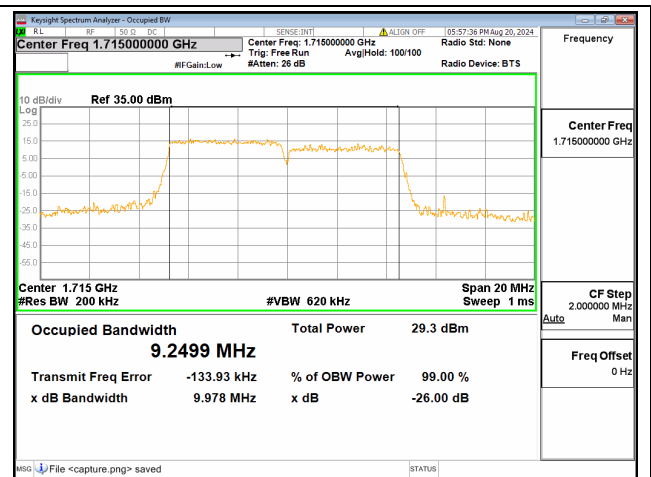
48C / 20+20MHz / 64QAM/ High CH



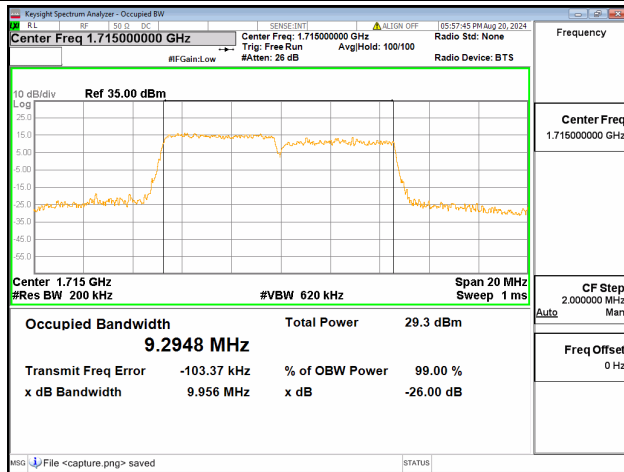
48C / 20+20MHz / 256QAM/ High CH



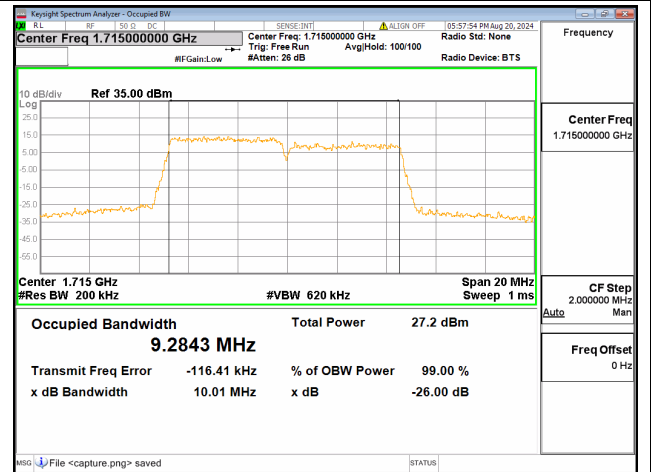
66B / 5+5MHz / QPSK/ Low CH



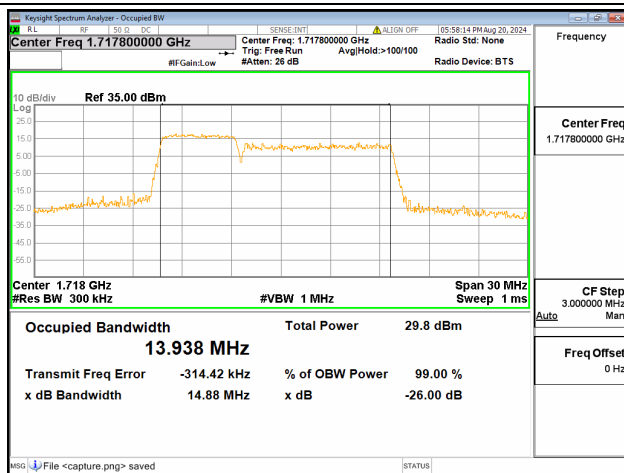
66B / 5+5MHz / 16QAM/ Low CH



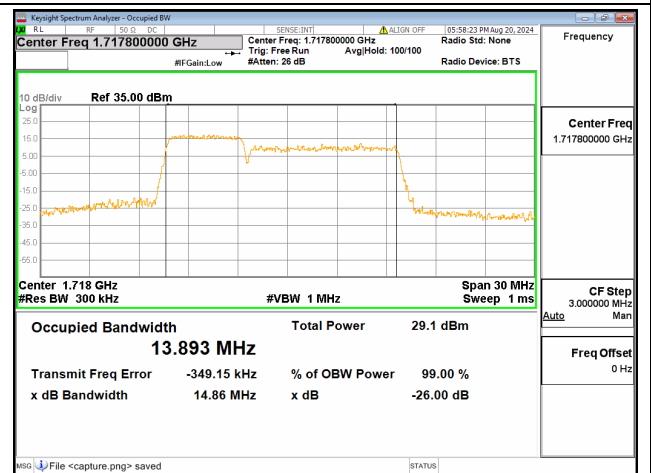
66B / 5+5MHz / 64QAM/ Low CH



66B / 5+5MHz / 256QAM/ Low CH



66B / 5+10MHz / QPSK/ Low CH

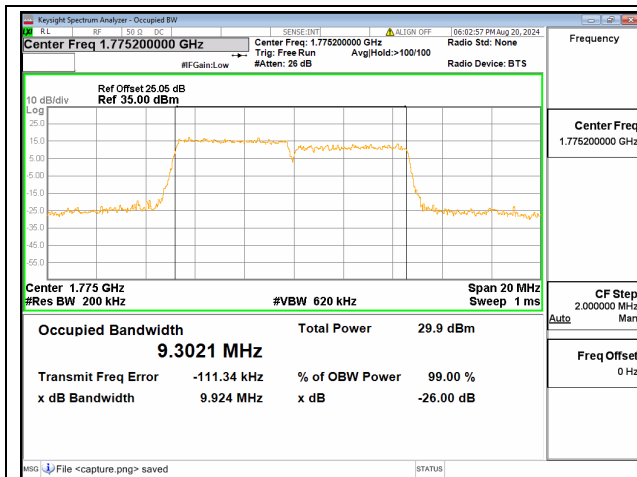


66B / 5+10MHz / 16QAM/ Low CH

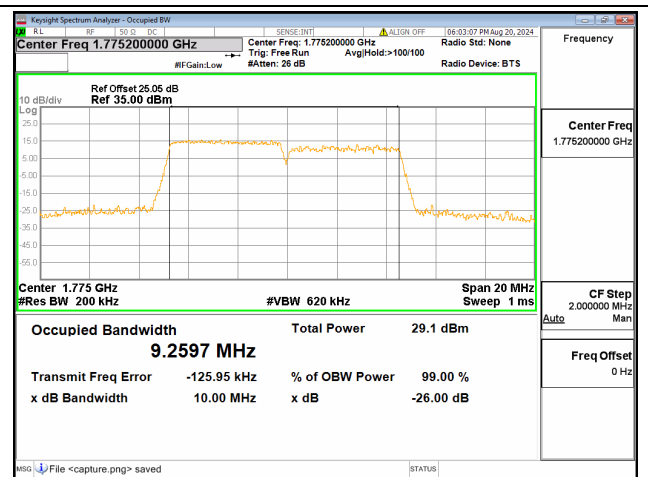




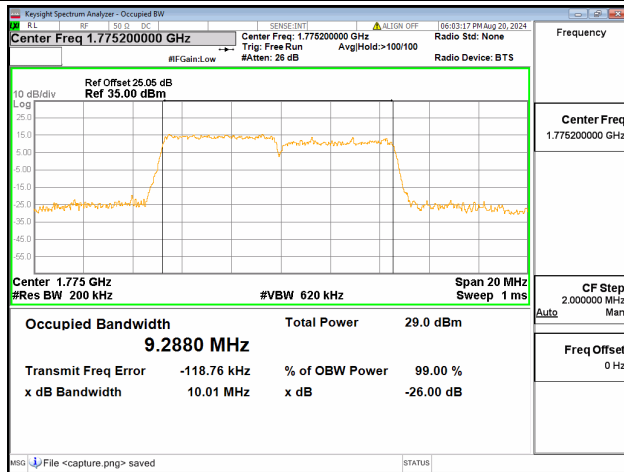




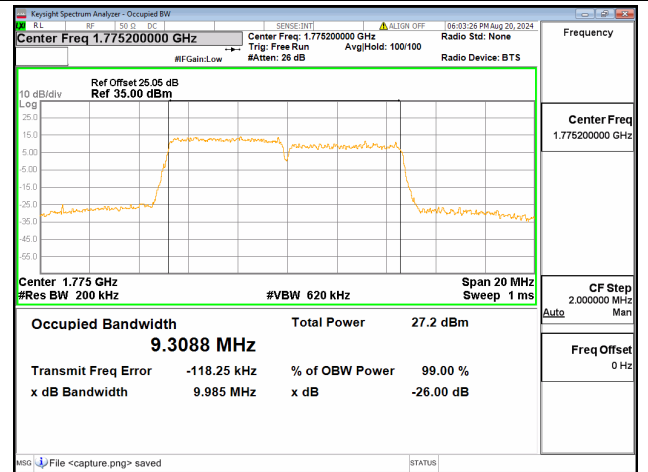
66B / 5+5MHz / QPSK / High CH



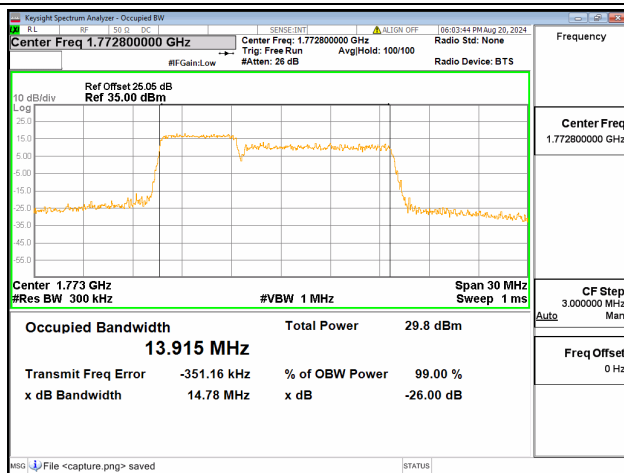
66B / 5+5MHz / 16QAM / High CH



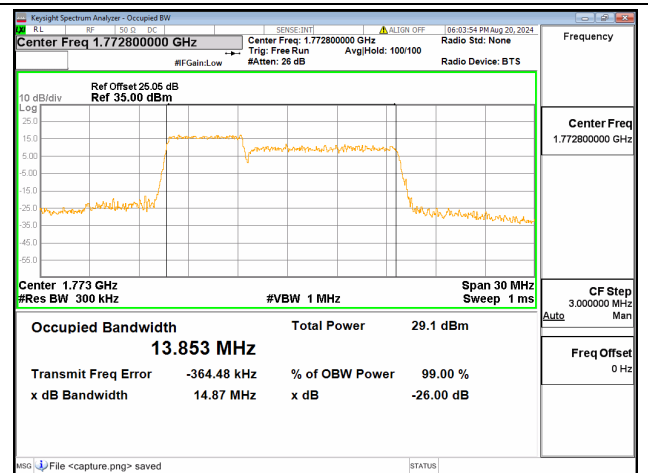
66B / 5+5MHz / 64QAM / High CH



66B / 5+5MHz / 256QAM / High CH



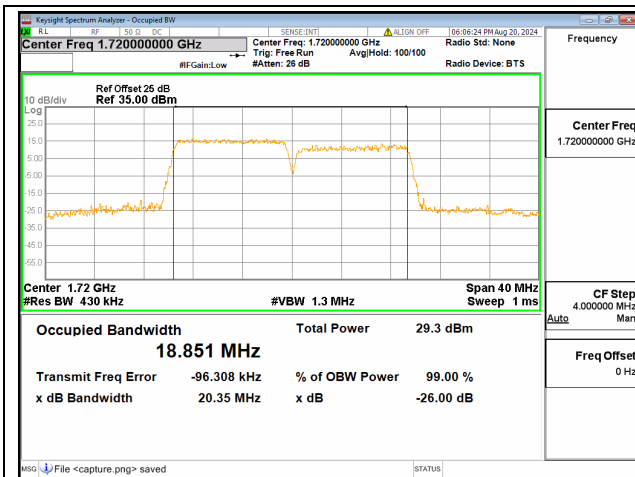
66B / 5+10MHz / QPSK / High CH



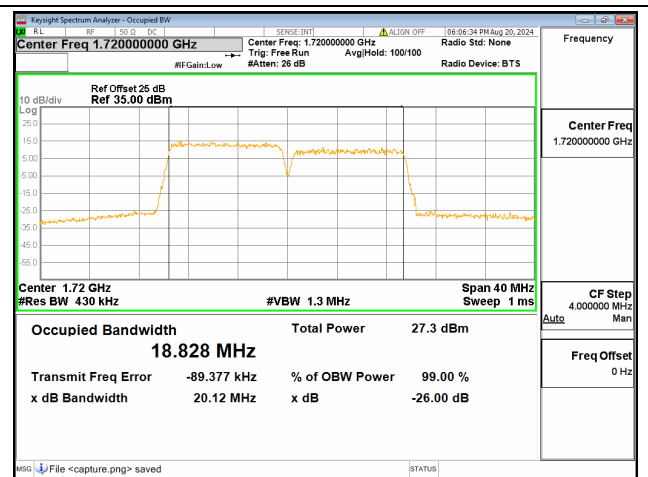
66B / 5+10MHz / 16QAM / High CH



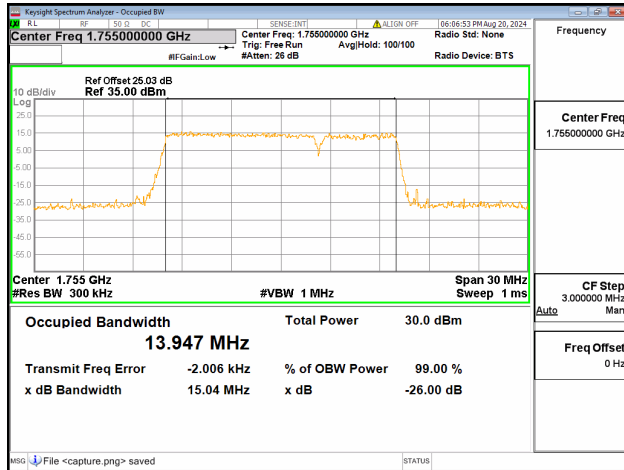




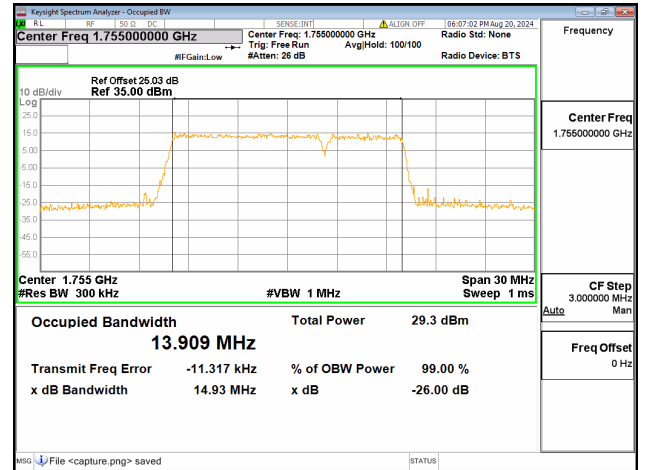
66B / 10+10MHz / 64QAM/ Low CH



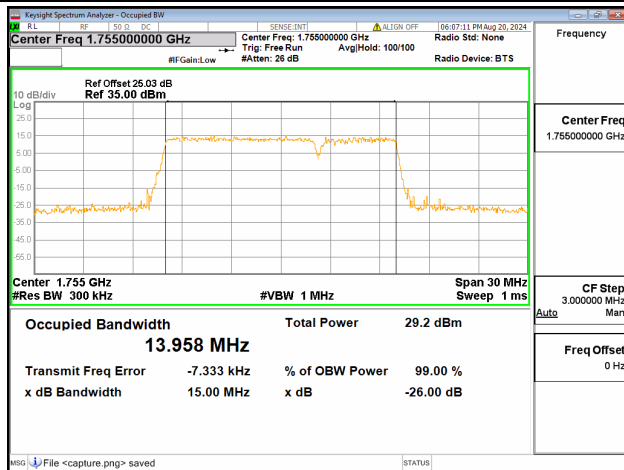
66B / 10+10MHz / 256QAM/ Low CH



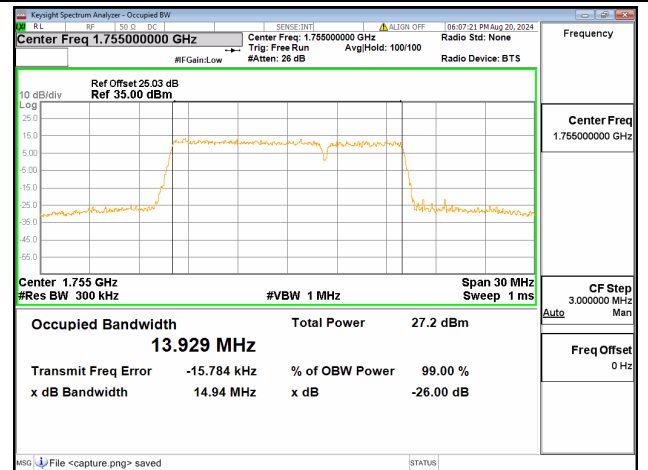
66B / 10+5MHz / QPSK/ Mid CH



66B / 10+5MHz / 16QAM/ Mid CH



66B / 10+5MHz / 64QAM/ Mid CH



66B / 10+5MHz / 256QAM/ Mid CH