



FCC TEST REPORT

FCC ID: 2BNTS-E01

On Behalf of

Shenzhen Zhixingsheng Electronics Co.,Ltd.

Digital Calendar

Model No.: E01, E02, E03, E04

Prepared for : Shenzhen Zhixingsheng Electronics Co.,Ltd.
Address : F/6, F Building, East Zone NO.8, ShangXue Science Park, JiHua Road, BanTian, LongGang District, Shenzhen, China

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2501040-C01-R02
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Date of Test : January 8 - February 12, 2025
Date of Report : February 12, 2025
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Shenzhen Zhixingsheng Electronics Co.,Ltd.
Address : F/6, F Building, East Zone NO.8, ShangXue Science Park, JiHua Road,
BanTian, LongGang District, Shenzhen, China
Manufacturer : Shenzhen Zhixingsheng Electronics Co.,Ltd.
Address : F/6, F Building, East Zone NO.8, ShangXue Science Park, JiHua Road,
BanTian, LongGang District, Shenzhen, China
EUT Description : Digital Calendar
(A) Model No. : E01, E02, E03, E04
(B) Trademark : N/A

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart E

ANSI C63.10:2013

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart E&RSS-247 limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:

Jensen Wang

Test Engineer

Jensen Wang

Approved by (name + signature).....:

Simple Guan

Project Manager

Simple Guan

Date of issue.....:

February 12, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	February 12, 2025	Initial released Issue	Jensen Wang



1 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	Section 15.203 Section 7.1.4 RSS-Gen Issue 5	PASS
AC Power Line Conducted Emission	Section 15.207 Section 7.2.4 RSS-GEN(8.8), ANSI C63.10	PASS
occupied bandwidth	Section 15.407 (e)	PASS
Peak Transmit Power	Section 15.407(a), RSS-247 5.4(2)	PASS
Power Spectral Density	Section 15.407(a), RSS-247 5.2(2)	PASS
Undesirable Emission	Section 15.407(b), RSS-247 5.5	PASS
Radiated Emission	Section 15.407(b)&15.209 Section 5.5 RSS-Gen(8.9), RSS-247(5.5), ANSI C63.10	PASS
Band Edge	15.205, RSS-247 Issue 2, ANSI C63.10	PASS
Frequency Stability	15.407(f), RSS-GEN(6.11)	PASS

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Frequency Stability: The manufacturer stated in the user's manual.
3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

1.1 Measurement Uncertainty

Item	Uncertainty
Uncertainty for Power Line Conducted Emissions Test	2.17dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	2.74dB(Polarize: V) 2.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 18GHz)	4.29dB(Polarize: V) 4.82dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31dB(Polarize: V) 4.30dB(Polarize: H)
Uncertainty for radio frequency	48.24KHz
Uncertainty for conducted RF Power	0.41dB
Uncertainty for Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Conducted-Spurious Emission	1.26dB

2 General Information

2.1 General Description of EUT

EUT Name : Digital Calendar
Model : E01, E02, E03, E04
Diff : There is no difference except the name of the model and appearance color.
All tests are made with the E01 model.
Test Voltage : AC 120V/60Hz

Radio Technology	: 5G WIFI
Operation frequency	: 802.11a/802.11ac20/802.11n(HT20): 5180-5240MHz, 5745-5825MHz 802.11ac40/802.11n(HT40): 5190-5230MHz, 5755-5795MHz
Channel separation	: 20MHz for 802.11a/802.11ac20/802.11n(HT20) 40MHz for 802.11ac40/802.11n(HT40)
Modulation technology:	: IEEE 802.11n: OFDM (64QAM,16QAM,QPSK,BPSK) IEEE 802.11a: OFDM (64QAM,16QAM,QPSK,BPSK) IEEE 802.11ac: OFDM (64QAM,16QAM, 256QAM,QPSK,BPSK)
Antenna Type	: Internal antenna, Maximum Gain is 4.67dBi.
PMN	: N/A
HVIN	: N/A
Software version	: N/A
Hardware version/FVIN	: N/A
Note	: Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.

2.2 Test mode

Transmitting mode Keep the EUT in transmitting with modulation.
EUT was test with 99% duty cycle at its maximum power control level.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

2.3 Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

2.4 Description of Support Units

Accessories 1 : AC/DC ADAPTER
Manufacturer : Dongguan Jingcheng Electronic Technology Co., Ltd
Model : JML-1203000-48
Rating : Input: 100-240V~50/60Hz 1.2A
 : Output: DC 12.0V/3.0A

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

2.8 Additional instructions

Software (Used for test) from client

Channel	Power level
Lowest	Default
Middle	Default
Highest	Default

3 Test Instruments list

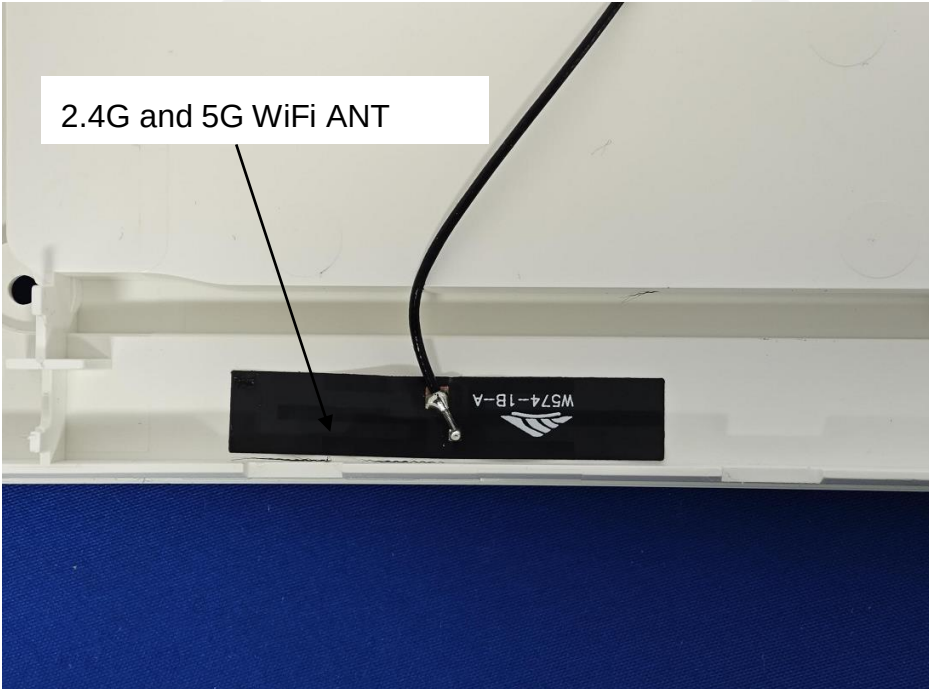
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2022.12.20	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV216	102282	/	2024.12.18	1 Year
4.	L.I.S.N.#2	RFT	NNB111	13835240	/	2024.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2024.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LAPA_01G1 8G-45dB	SK20220329 01	/	2024.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_0118 G-45	SK20200108 01	/	2024.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02 -1111533-Fz	/	2024.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P0 08	/	2024.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2024.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2024.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10 A	20221125163 8		2024.12.18	1 Year

For Test Software Information

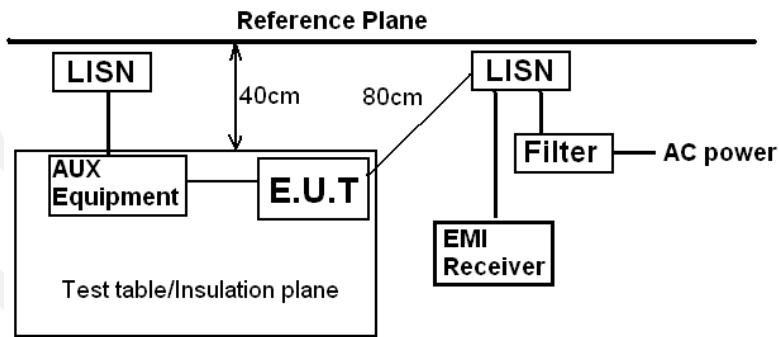
Item	Software Name	Manufacturer	Version
RE	EZ EMC	Farad	PSI-3A1
CE	EZ EMC	Farad	PSI-3A1
RF	RTS	TACHOY	V1.0.0

4 Test results and Measurement Data

4.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
Internal antenna, Maximum Gain is 4.67dBi, for 5180-5240MHz, 5745-5845MHz 	

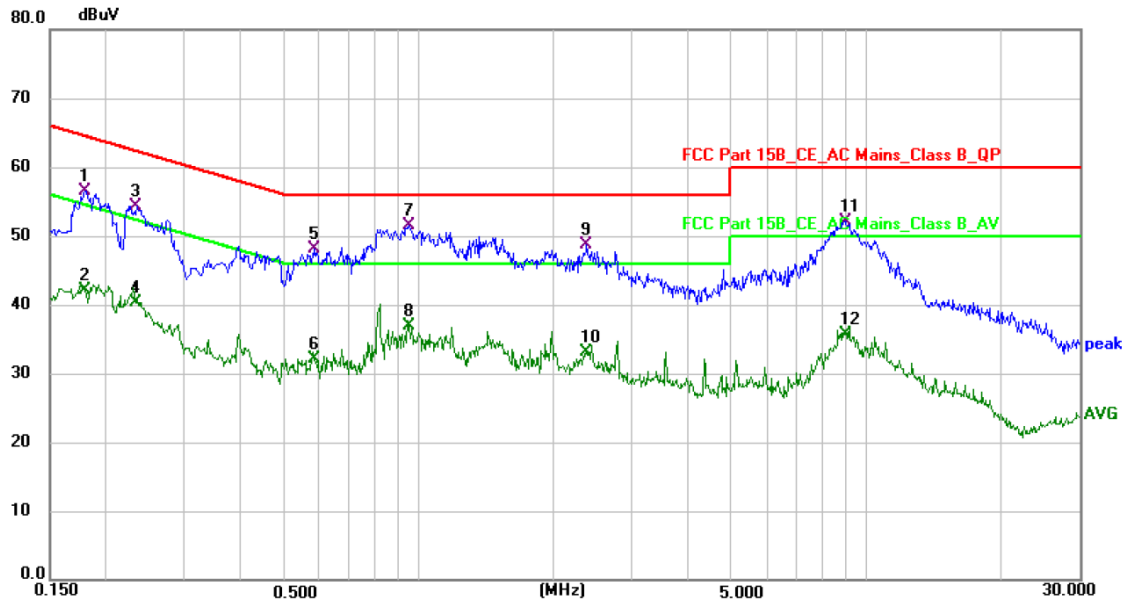
4.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207, RSS-Gen §8.8		
Test Method:	ANSI C63.10:2013		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.		
Test setup:	 Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 3.0 for details		
Test mode:	Refer to section 2.2 for details		
Test results:	Pass		

Measurement Data

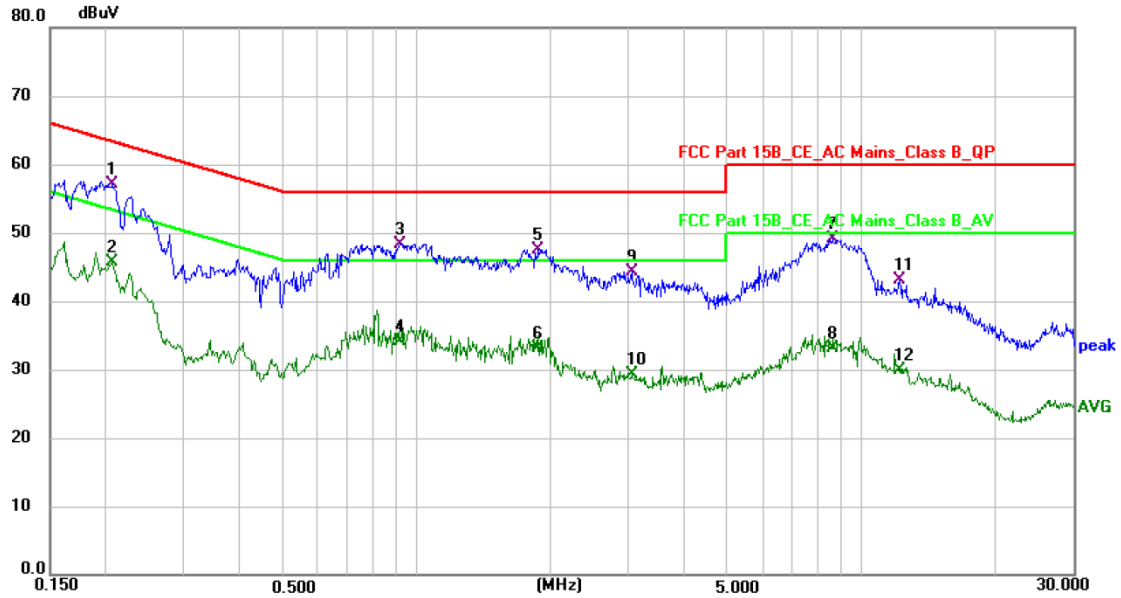
An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1804	46.59	9.95	56.54	64.47	-7.93	QP
2	0.1804	32.18	9.95	42.13	54.47	-12.34	AVG
3	0.2340	44.38	9.96	54.34	62.31	-7.97	QP
4	0.2340	30.42	9.96	40.38	52.31	-11.93	AVG
5	0.5860	38.35	9.70	48.05	56.00	-7.95	QP
6	0.5860	22.42	9.70	32.12	46.00	-13.88	AVG
7 *	0.9500	42.11	9.41	51.52	56.00	-4.48	QP
8	0.9500	27.47	9.41	36.88	46.00	-9.12	AVG
9	2.3820	39.26	9.39	48.65	56.00	-7.35	QP
10	2.3820	23.74	9.39	33.13	46.00	-12.87	AVG
11	8.9660	42.51	9.58	52.09	60.00	-7.91	QP
12	8.9660	26.21	9.58	35.79	50.00	-14.21	AVG

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

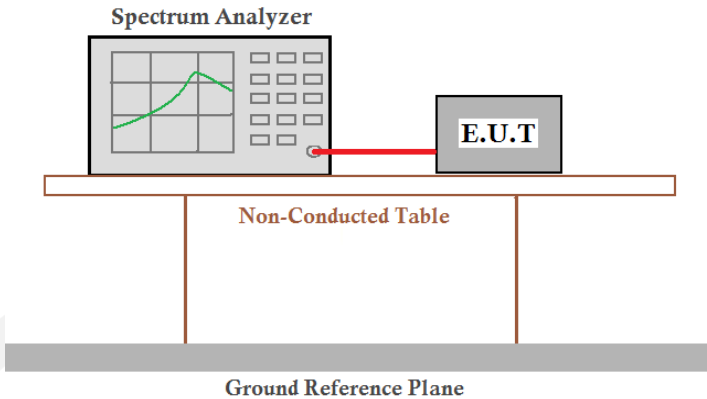
Neutral:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.2071	47.08	10.03	57.11	63.32	-6.21	QP
2	0.2071	35.77	10.03	45.80	53.32	-7.52	AVG
3	0.9220	38.79	9.58	48.37	56.00	-7.63	QP
4	0.9220	24.49	9.58	34.07	46.00	-11.93	AVG
5	1.8780	38.25	9.29	47.54	56.00	-8.46	QP
6	1.8780	23.83	9.29	33.12	46.00	-12.88	AVG
7	8.6140	39.77	9.43	49.20	60.00	-10.80	QP
8	8.6140	23.74	9.43	33.17	50.00	-16.83	AVG
9	3.0540	34.82	9.56	44.38	56.00	-11.62	QP
10	3.0540	19.73	9.56	29.29	46.00	-16.71	AVG
11	12.2140	33.53	9.61	43.14	60.00	-16.86	QP
12	12.2140	20.28	9.61	29.89	50.00	-20.11	AVG

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

All modes and channels have been tested and only the A 5180MHz mode with the worst data is listed.

4.3 Emission Bandwidth and 99% Occupied Bandwidth

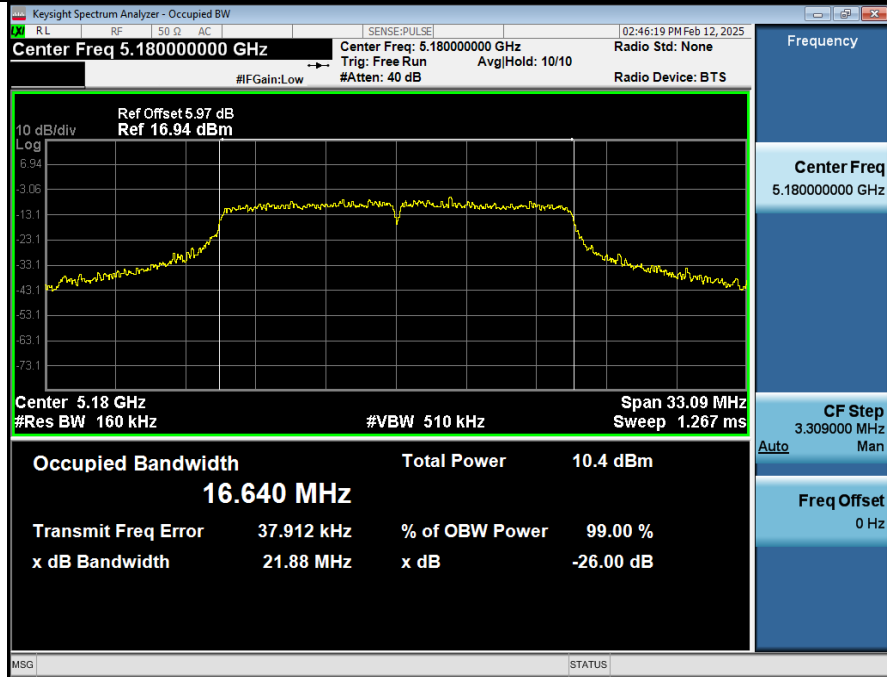
Test Requirement:	FCC Part15 E Section 15.407, RSS-Gen §6.7; RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	N/A
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane. The Spectrum Analyzer screen shows a frequency spectrum with a peak.
Test procedure:	According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data:

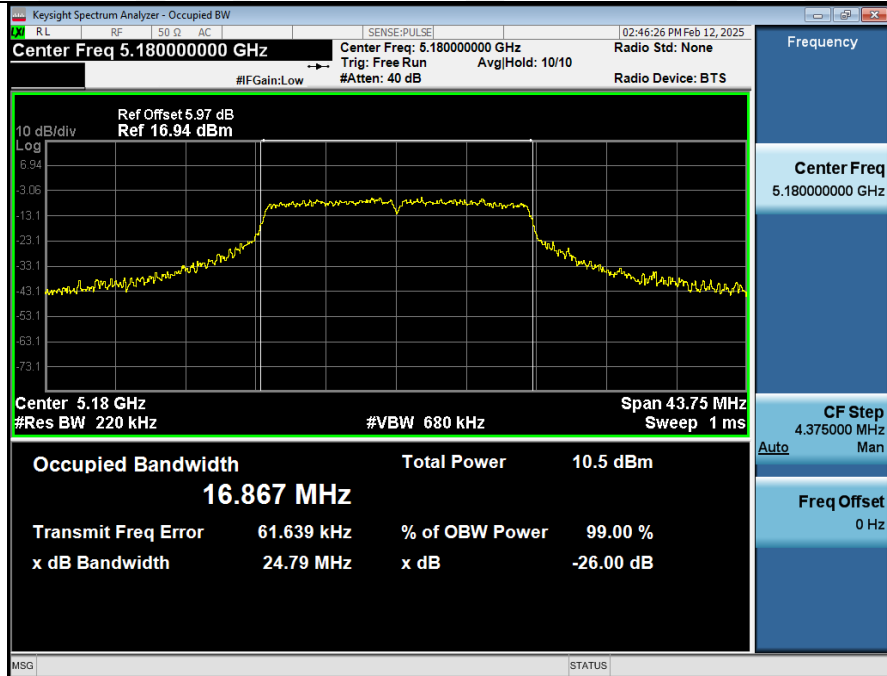
Band 1 (5150-5250 MHz):

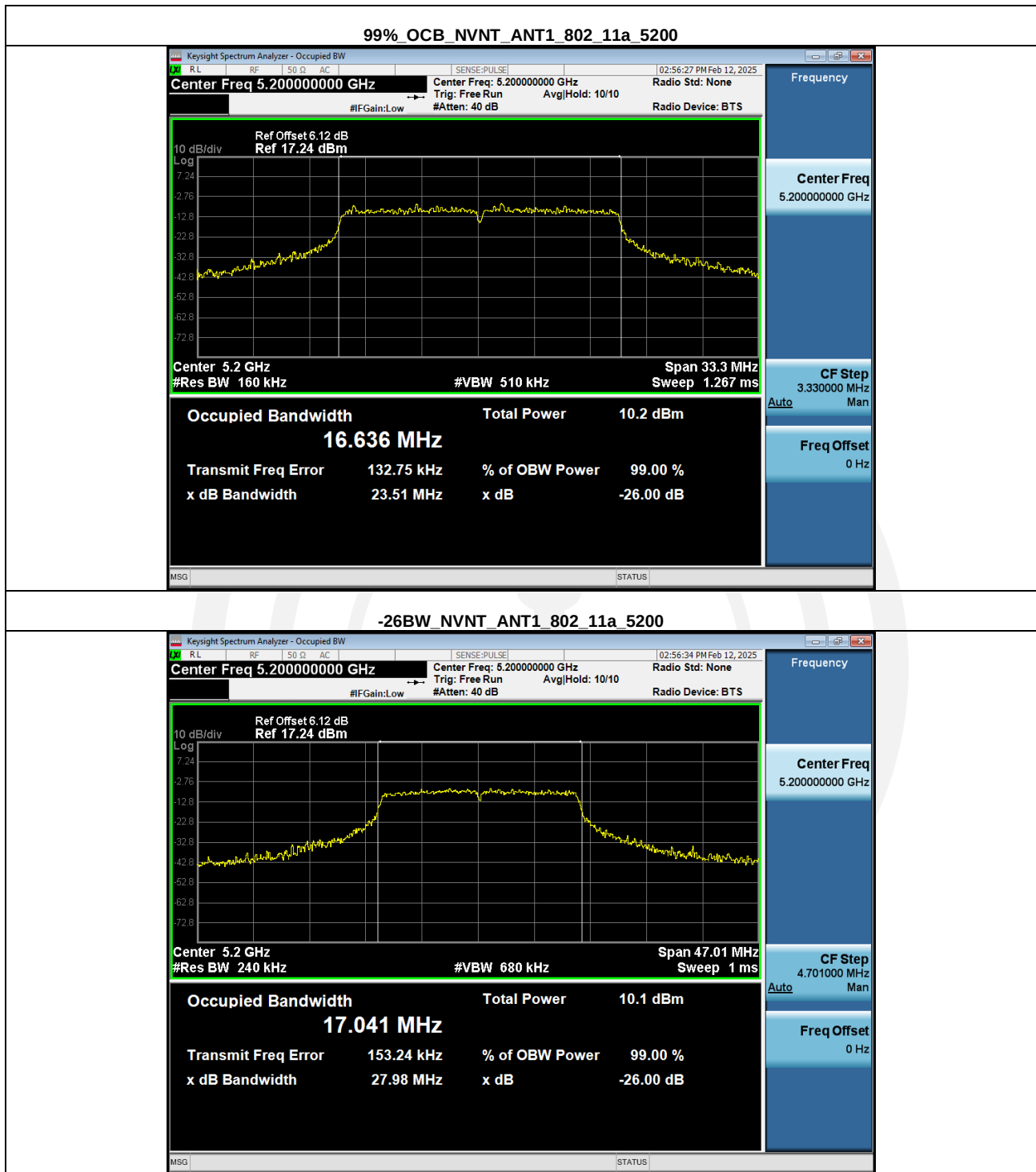
Condition	Antenna	Modulation	Frequency(MHz)	26dB Emission Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	24.79	16.64
NVNT	ANT1	802.11a	5200.00	27.98	16.64
NVNT	ANT1	802.11a	5240.00	24.45	16.62
NVNT	ANT1	802.11n(HT20)	5180.00	25.98	17.86
NVNT	ANT1	802.11n(HT20)	5200.00	26.09	17.88
NVNT	ANT1	802.11n(HT20)	5240.00	25.21	17.85
NVNT	ANT1	802.11ac(VHT20)	5180.00	26.24	17.86
NVNT	ANT1	802.11ac(VHT20)	5200.00	26.65	17.91
NVNT	ANT1	802.11ac(VHT20)	5240.00	26.26	17.86
NVNT	ANT1	802.11n(HT40)	5190.00	45.95	36.40
NVNT	ANT1	802.11n(HT40)	5230.00	45.59	36.38
NVNT	ANT1	802.11ac(VHT40)	5190.00	46.98	36.48
NVNT	ANT1	802.11ac(VHT40)	5230.00	47.35	36.34

99%_OCB_NVNT_ANT1_802_11a_5180

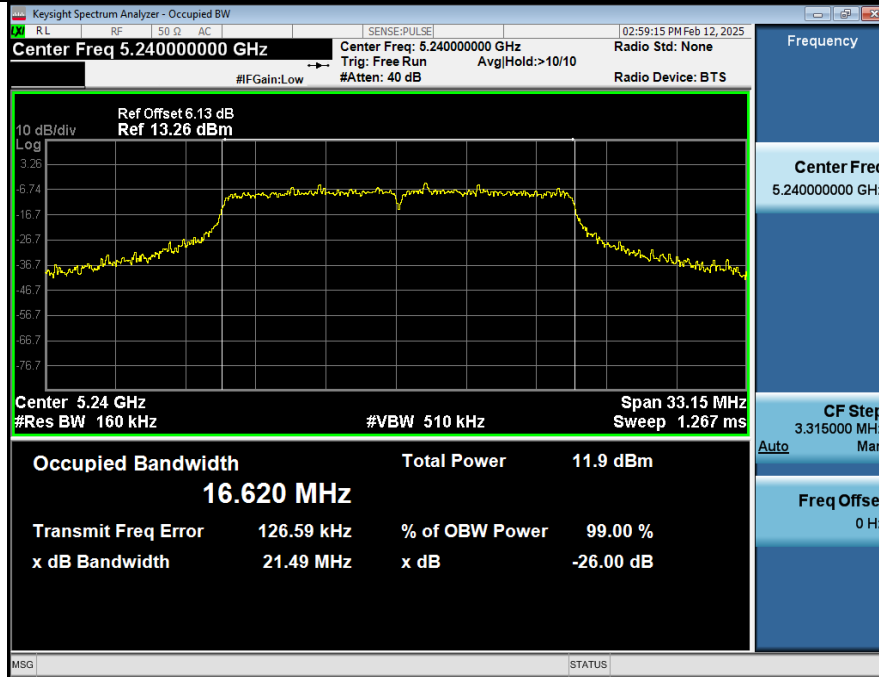


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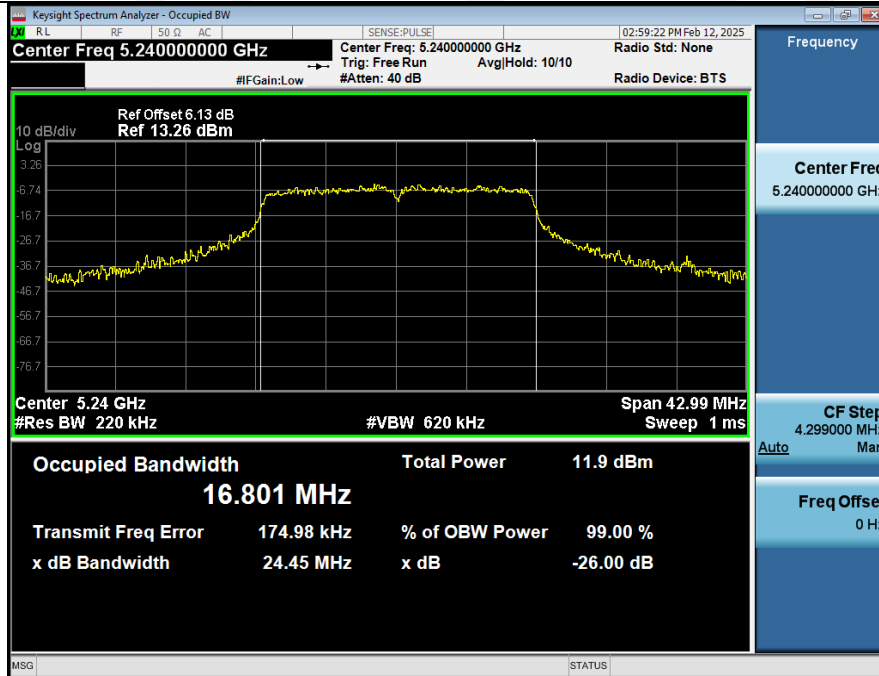




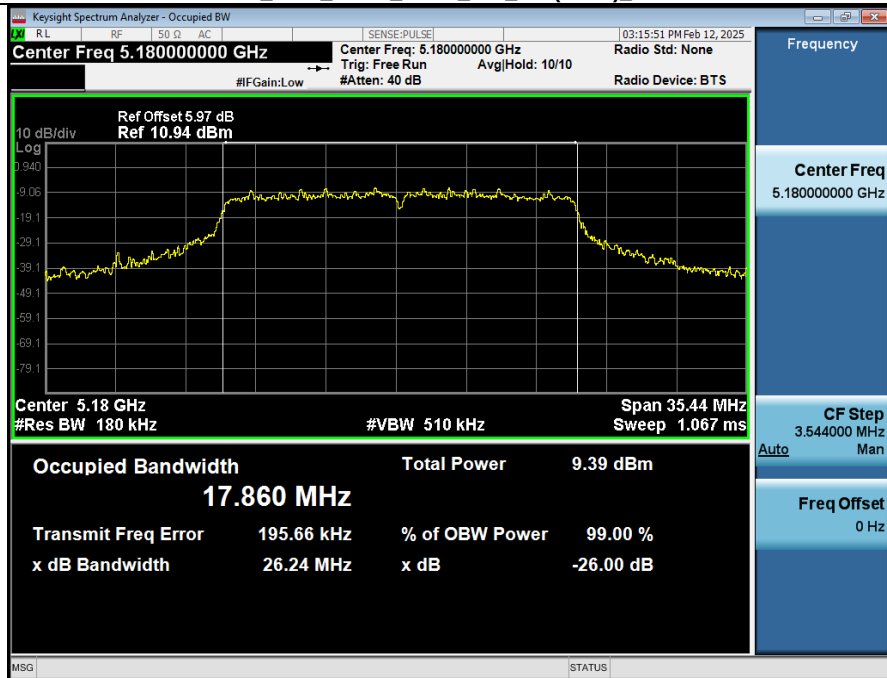
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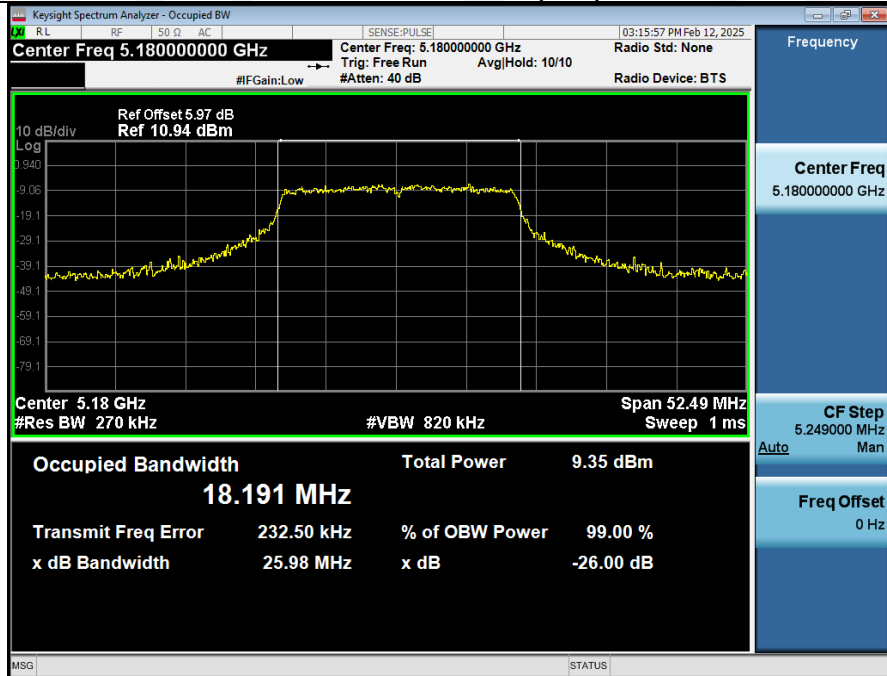
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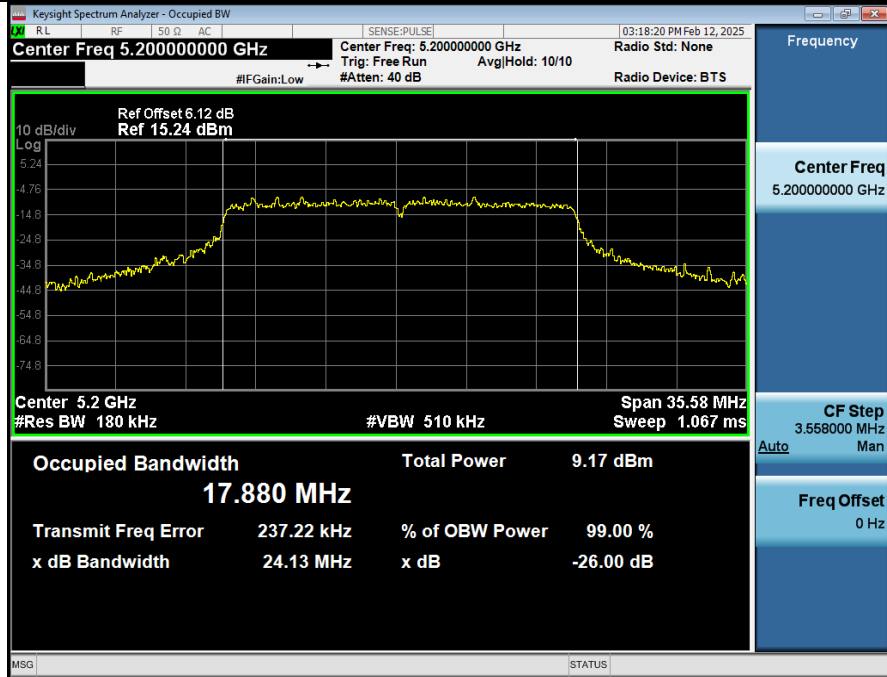
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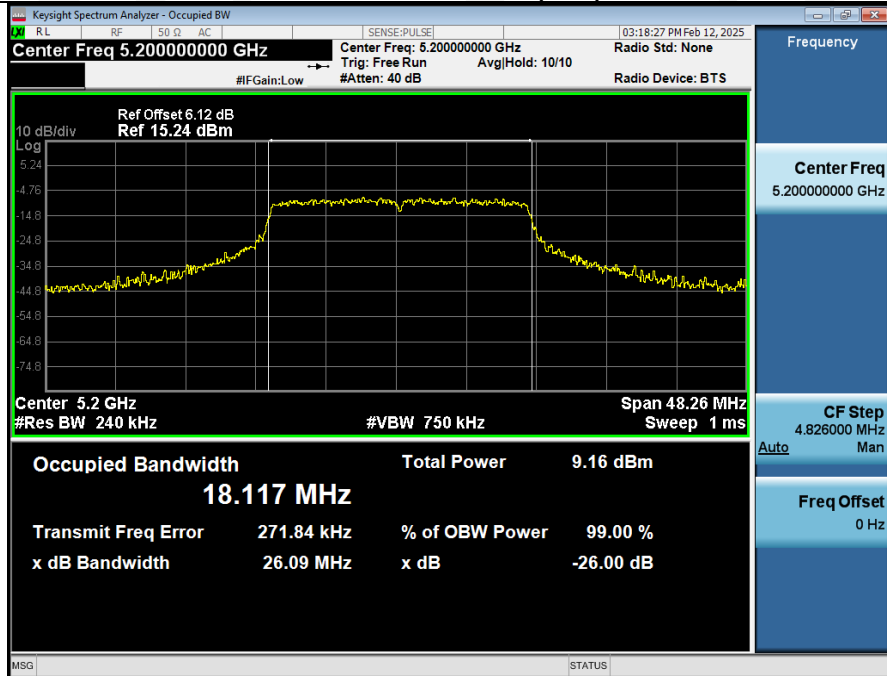
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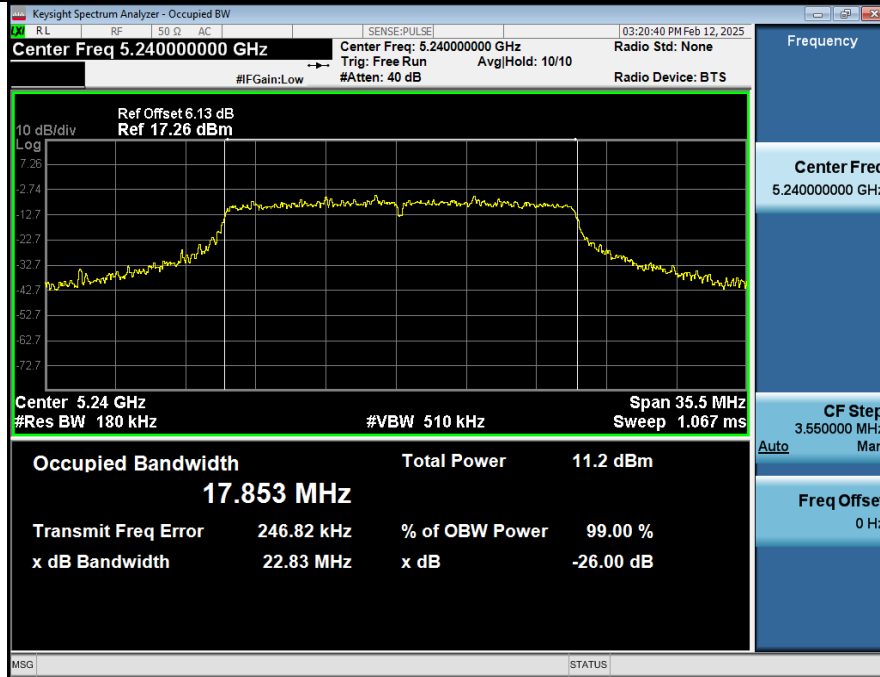
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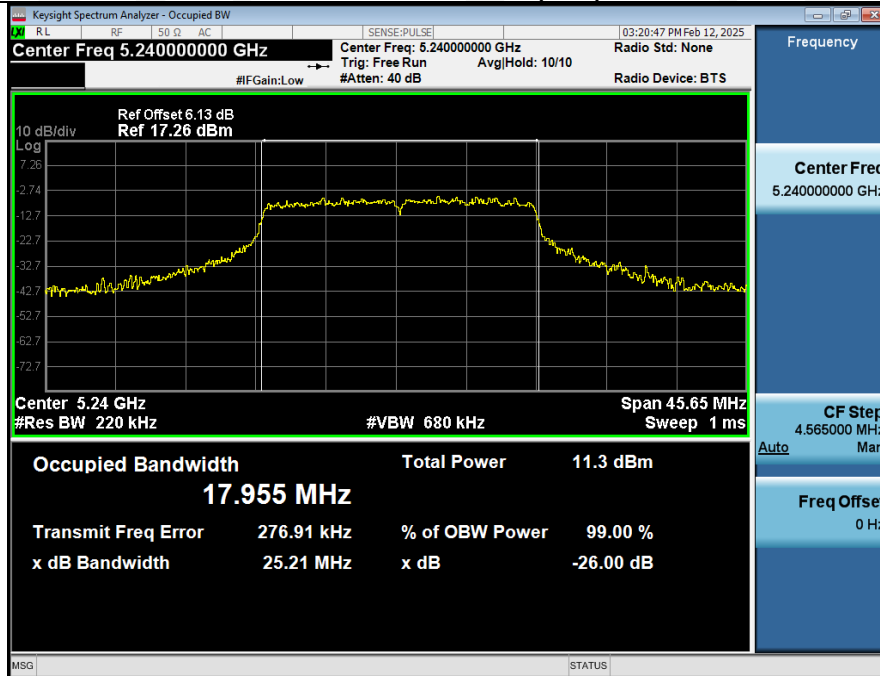
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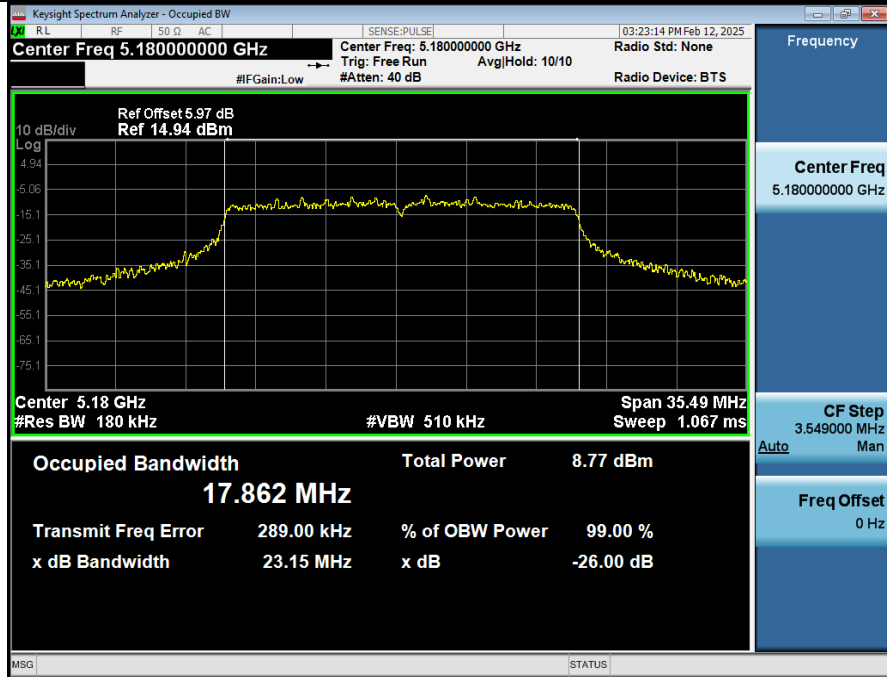
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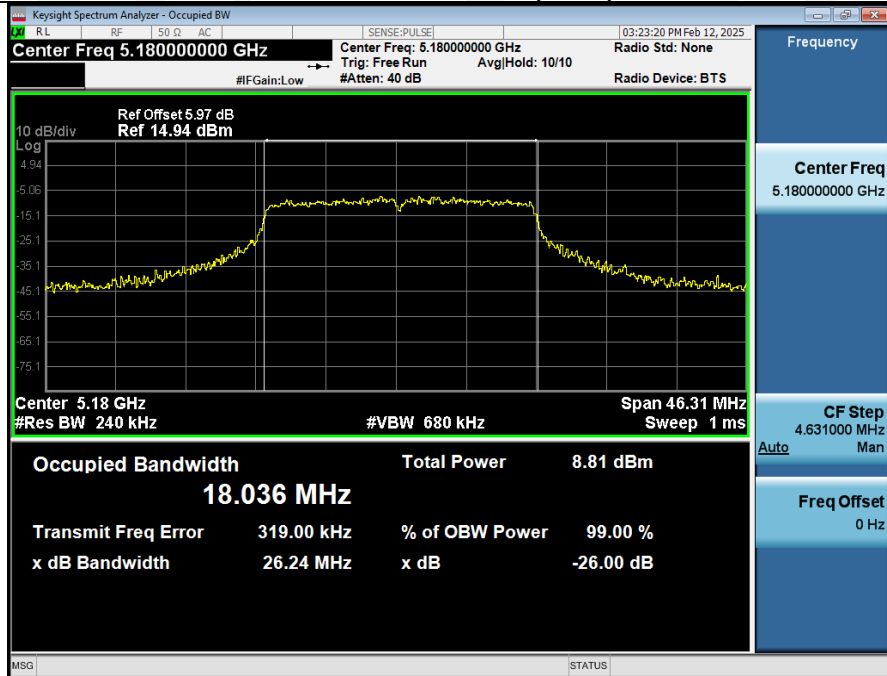
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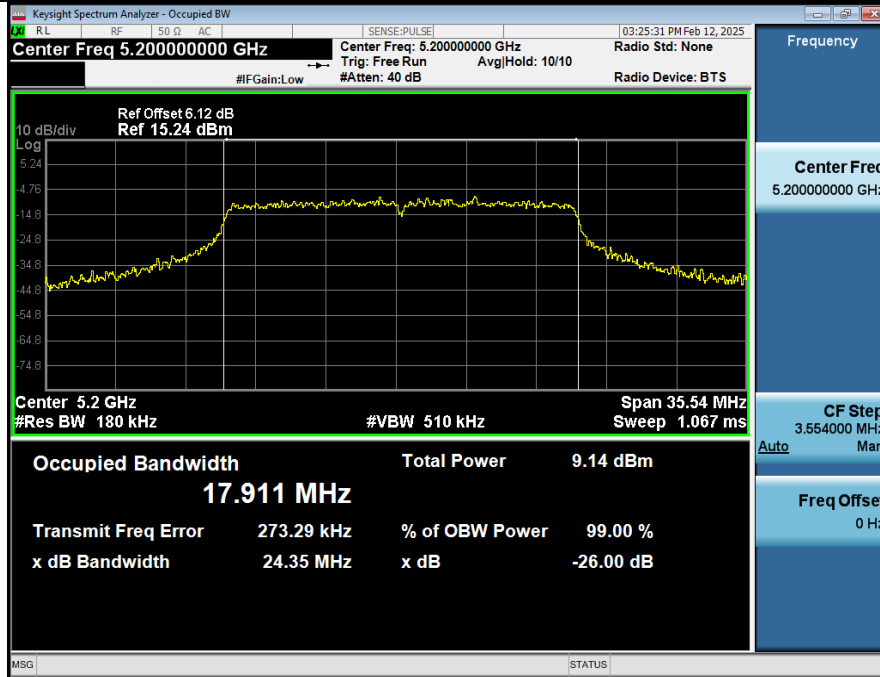
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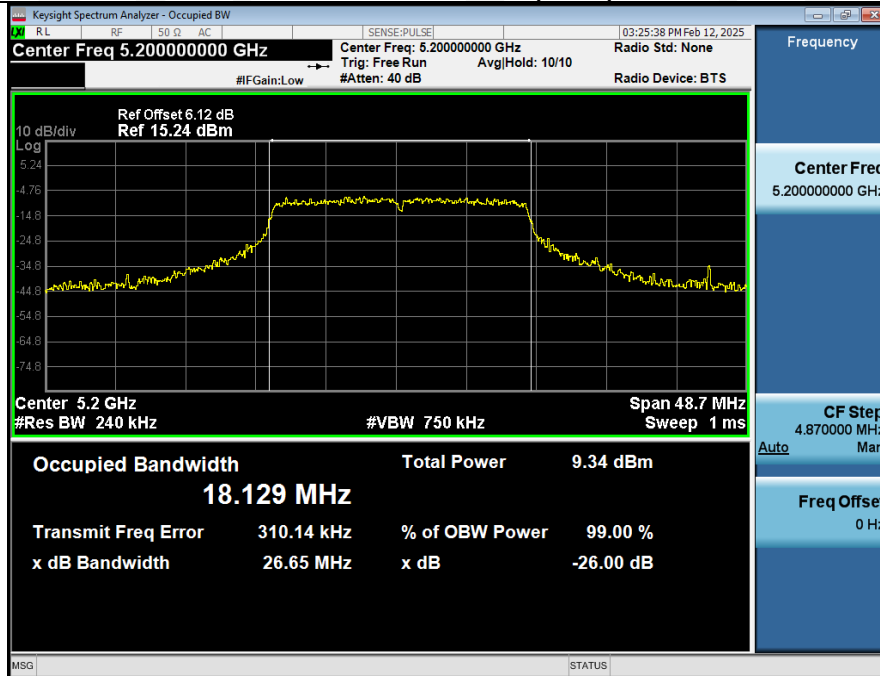
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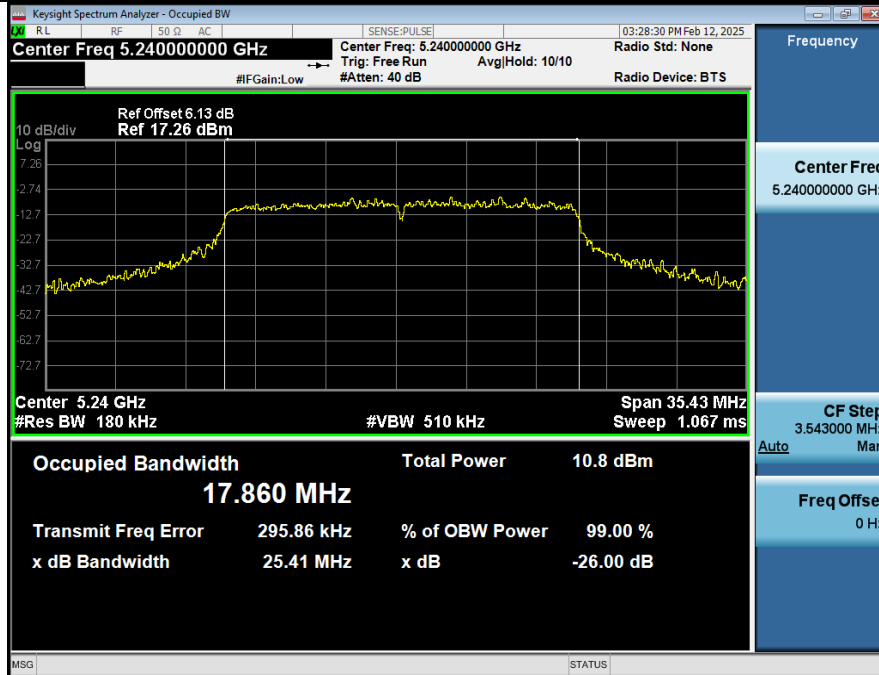
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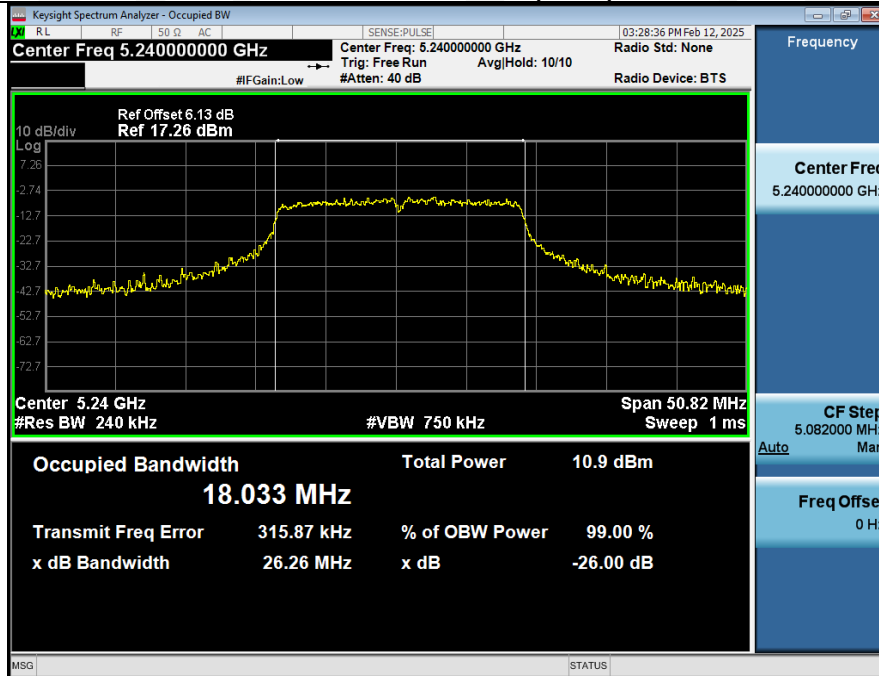
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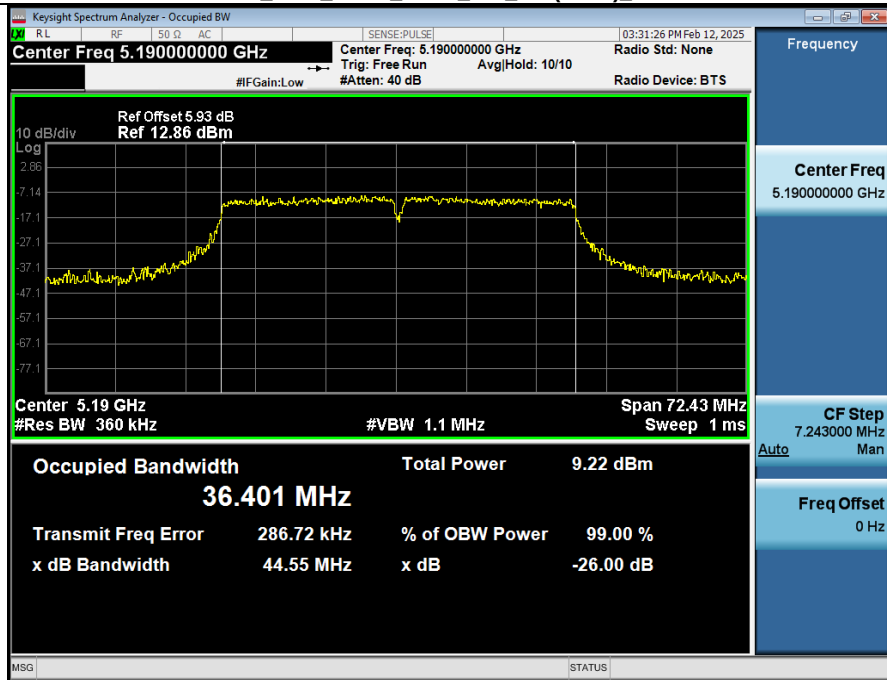
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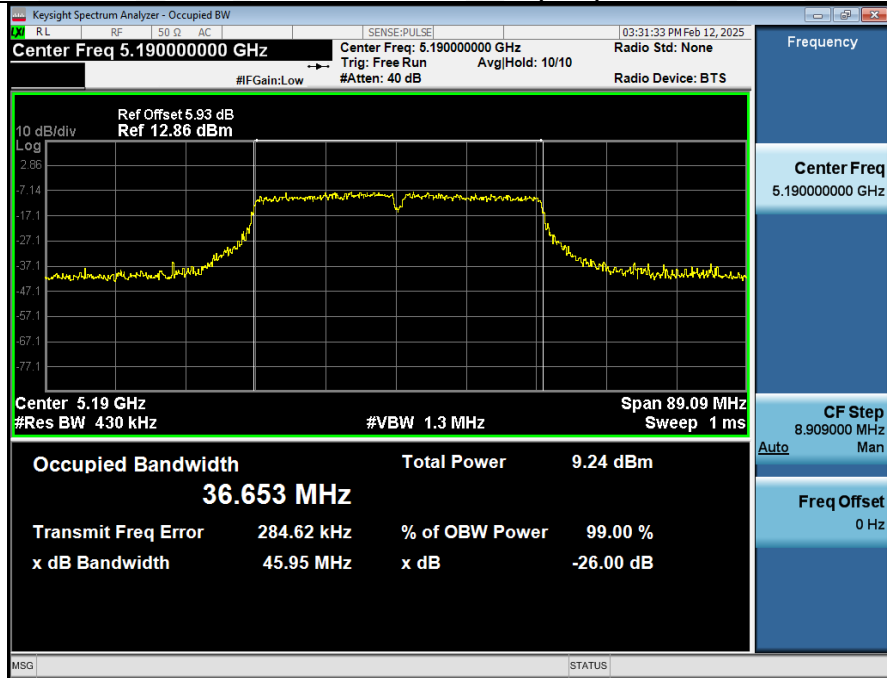
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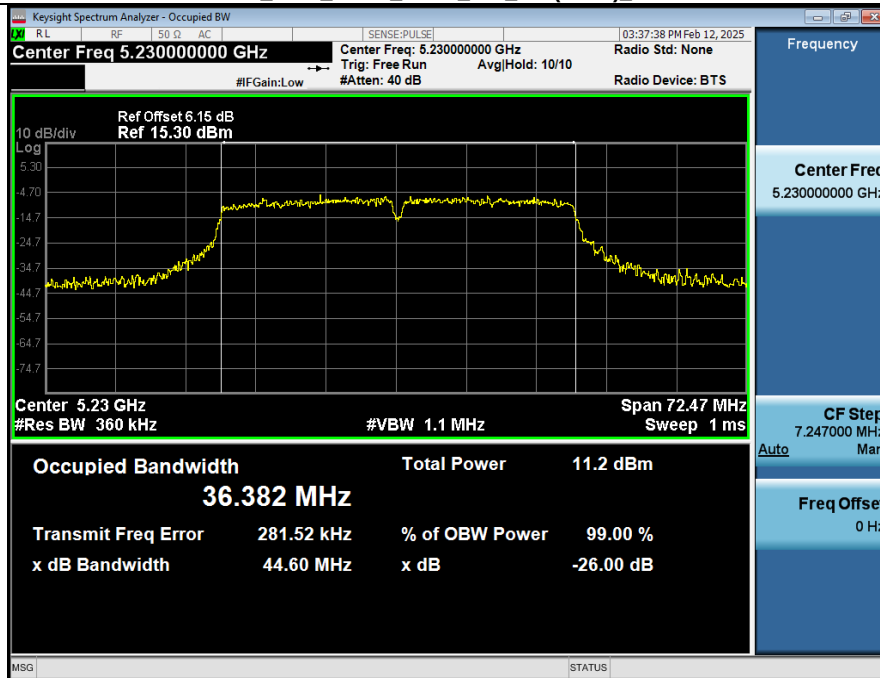
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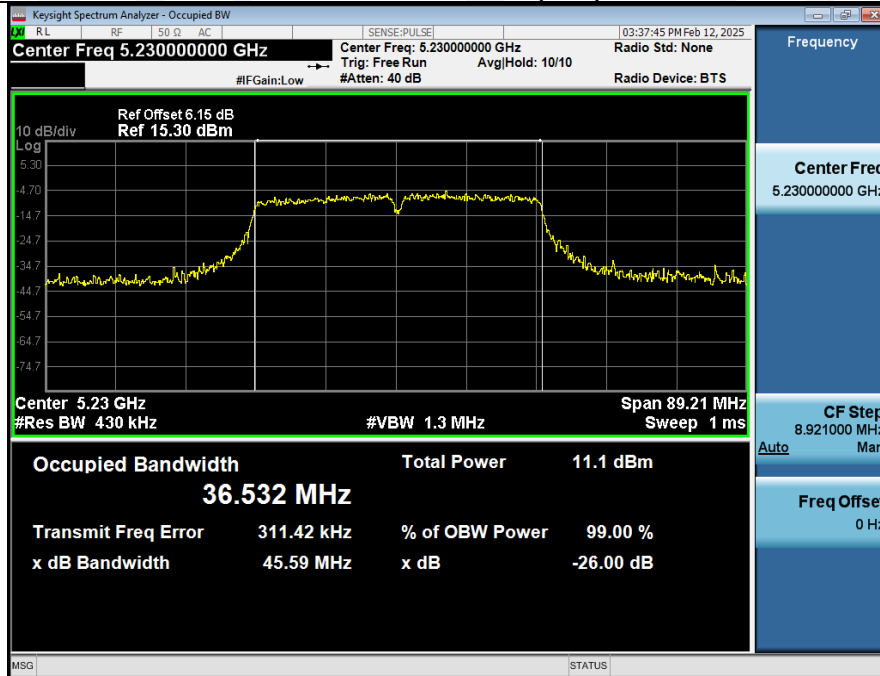
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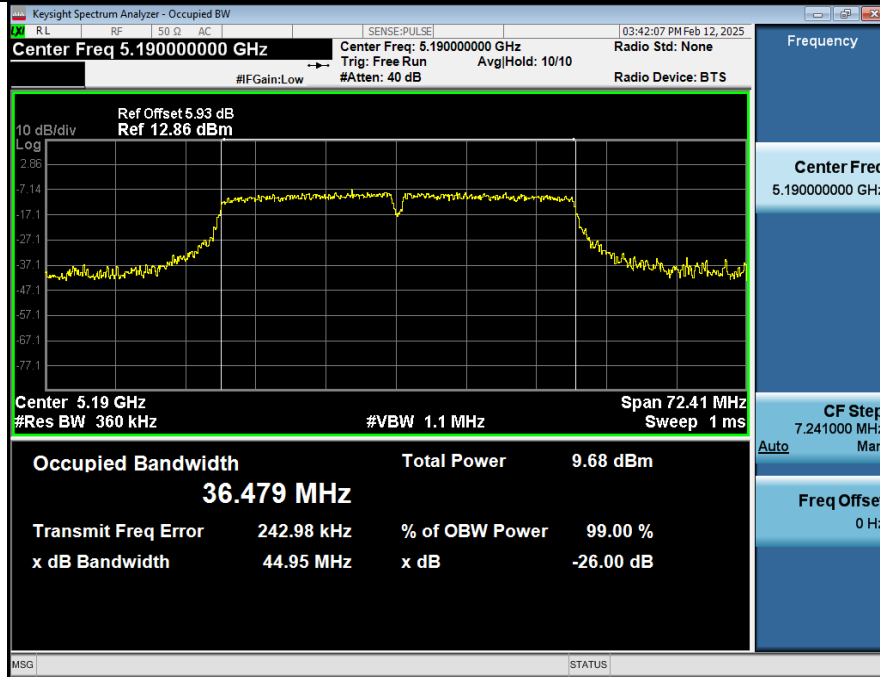
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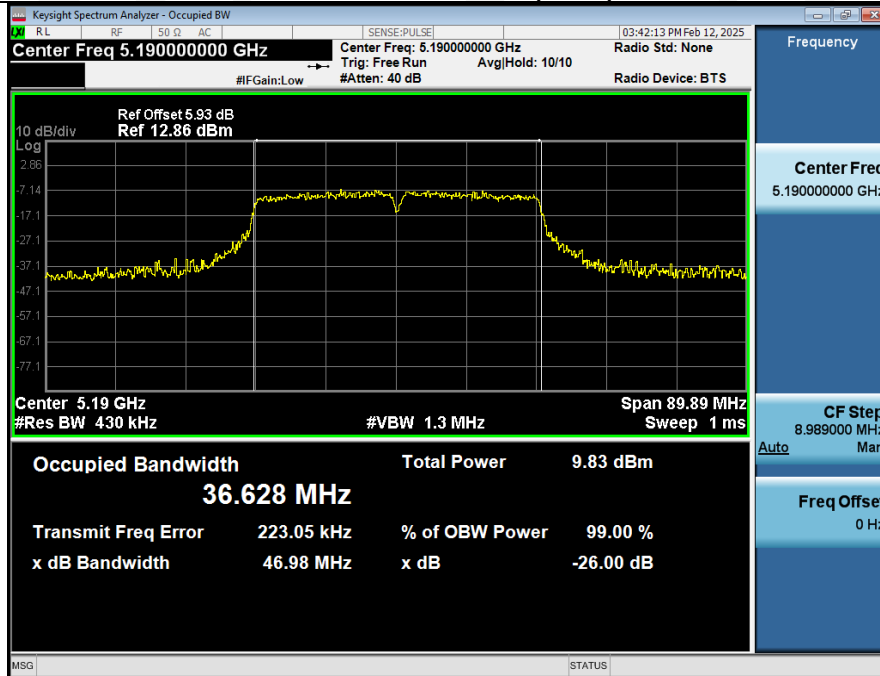
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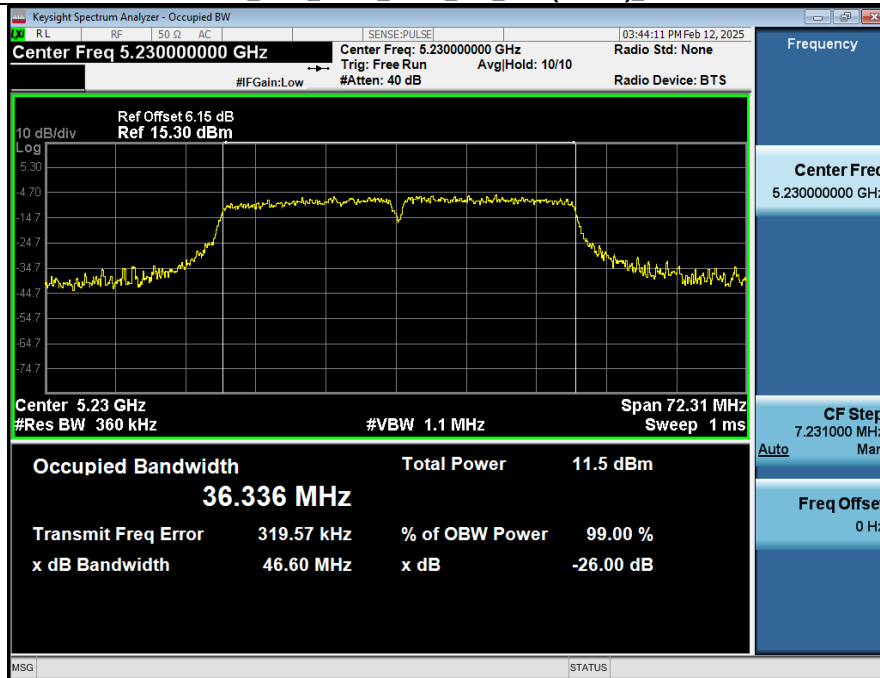
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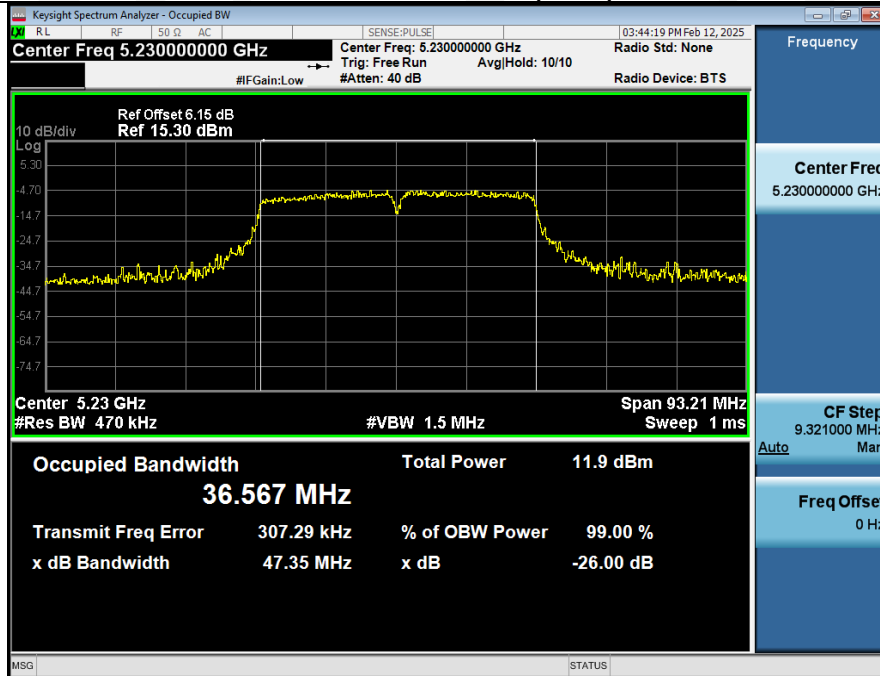
-26BW_NVNT_ANT1_802_11ac(VHT40)_5190



99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5230



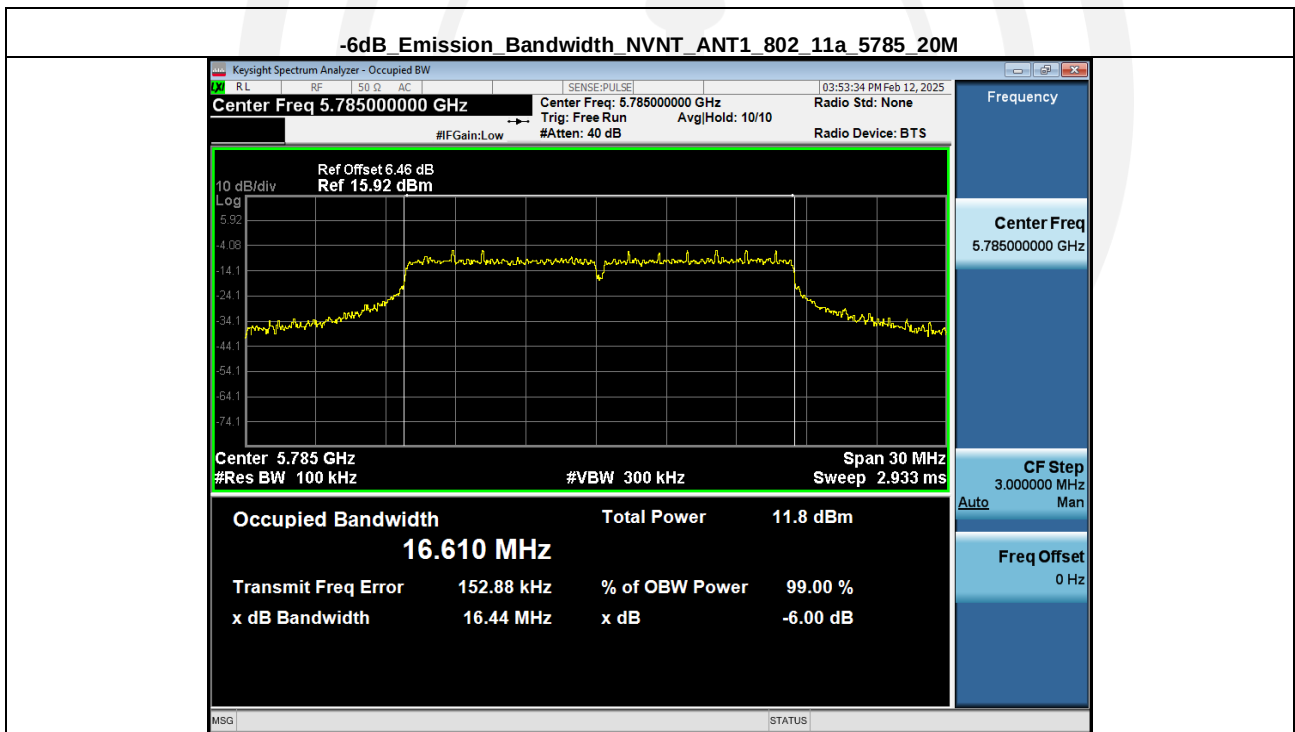
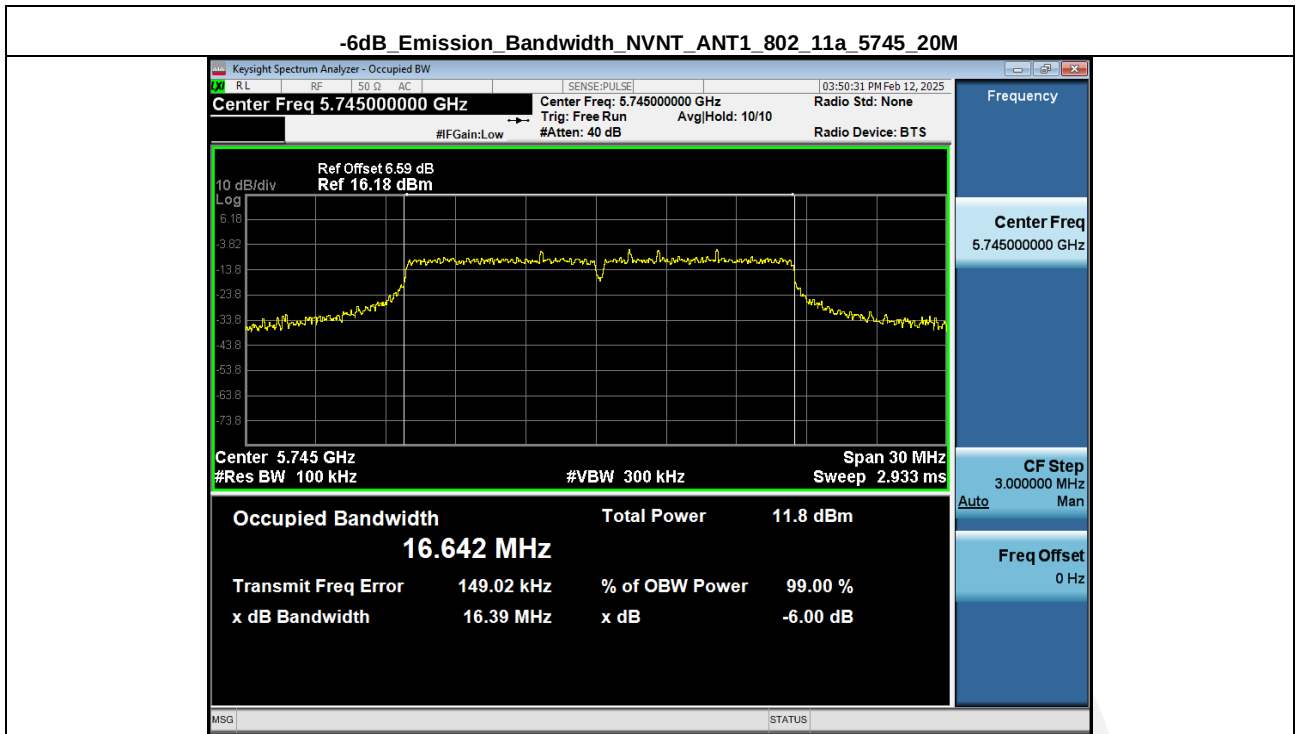
-26BW_NVNT_ANT1_802_11ac(VHT40)_5230

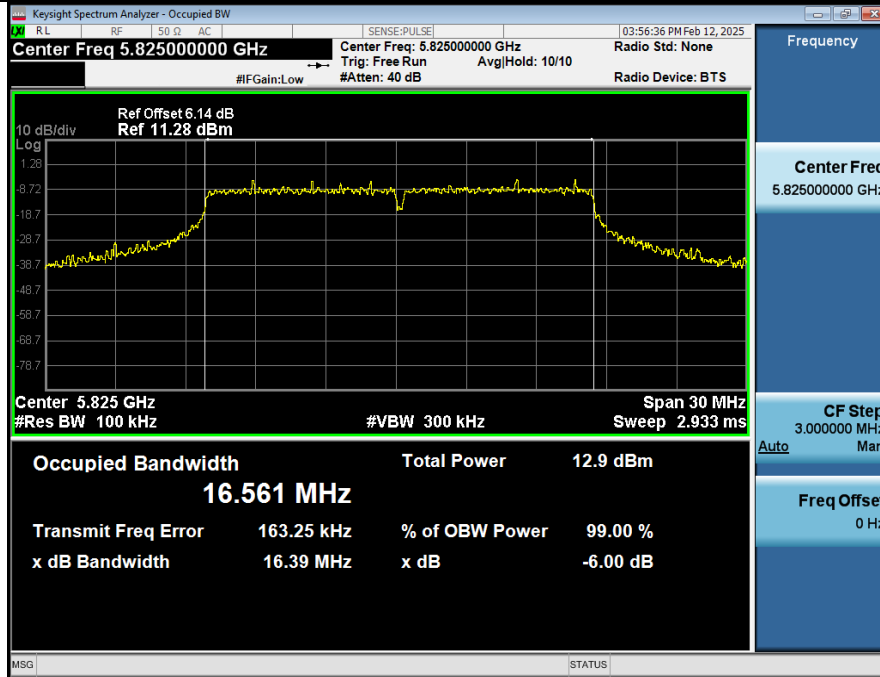
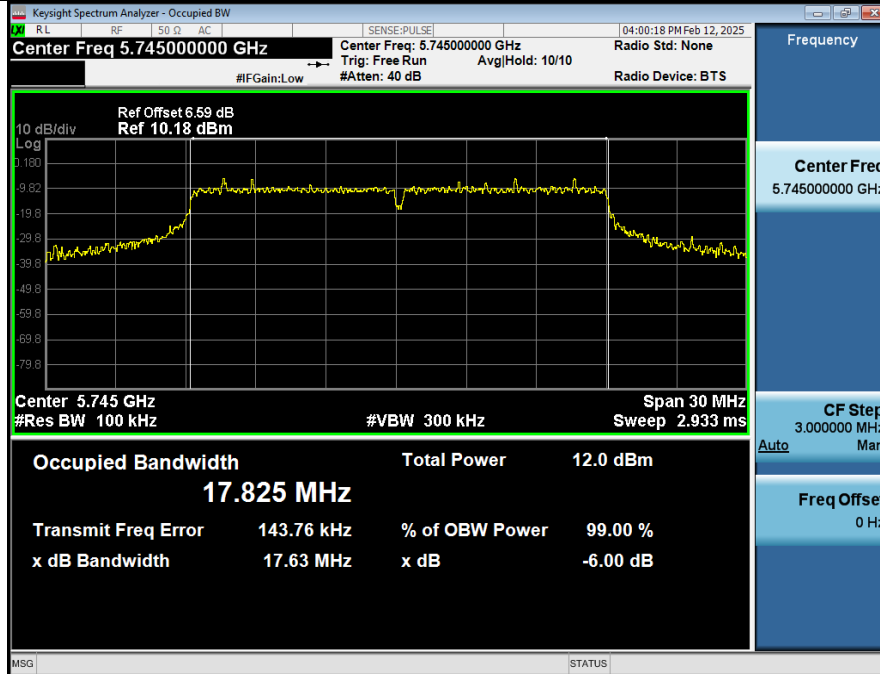


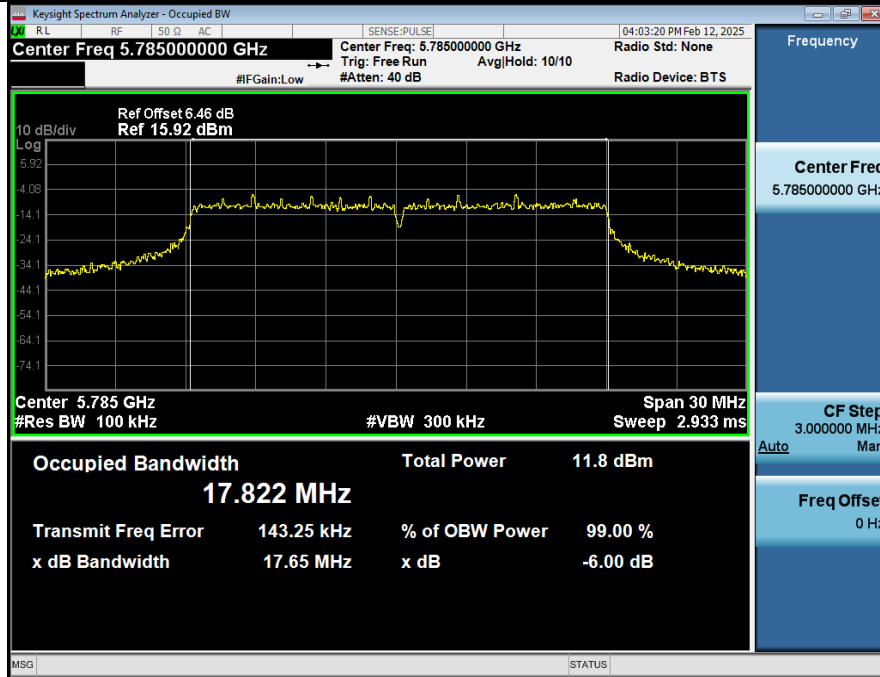
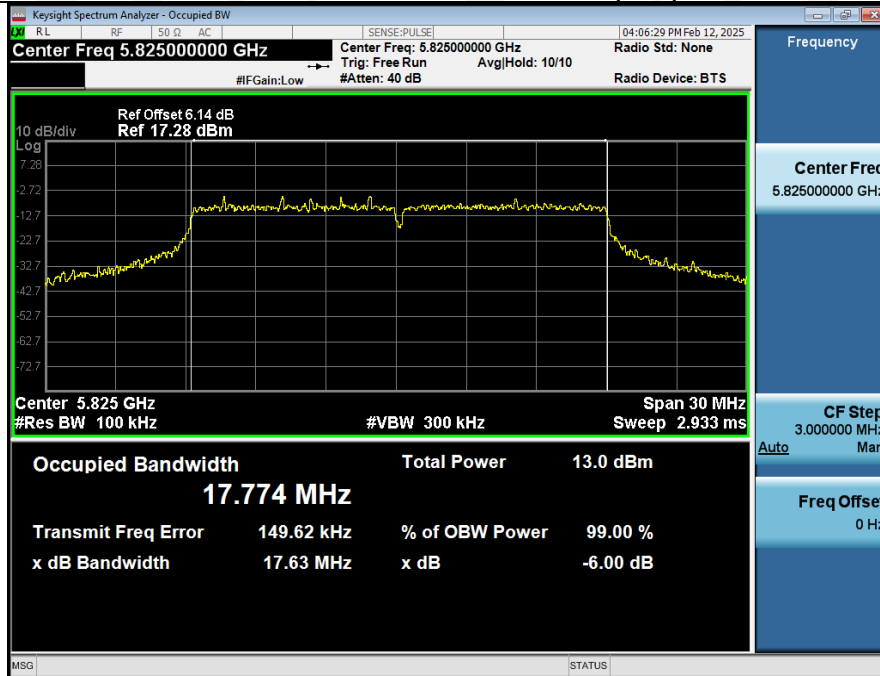
Band 4 (5725-5850 MHz):

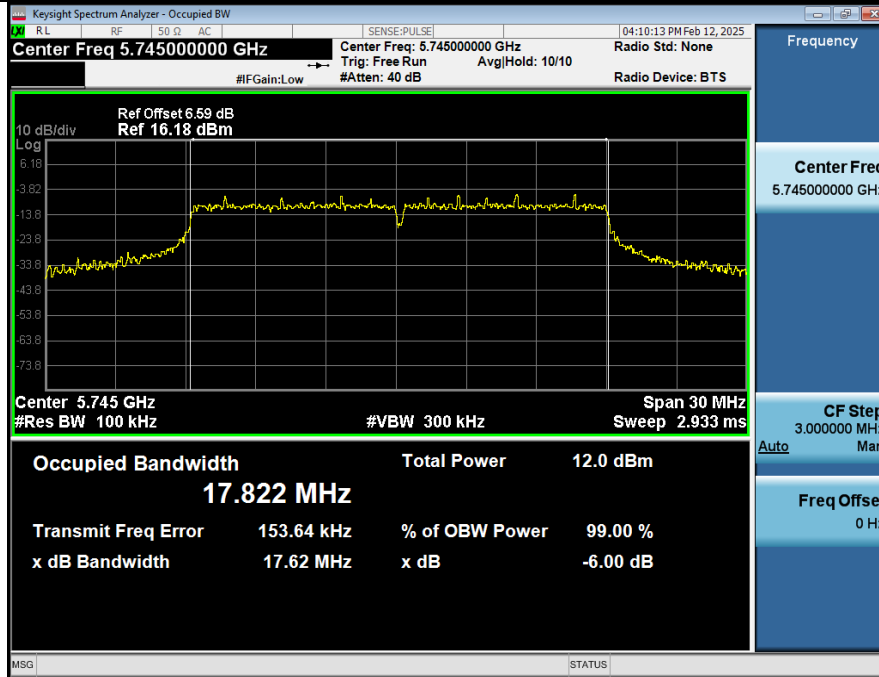
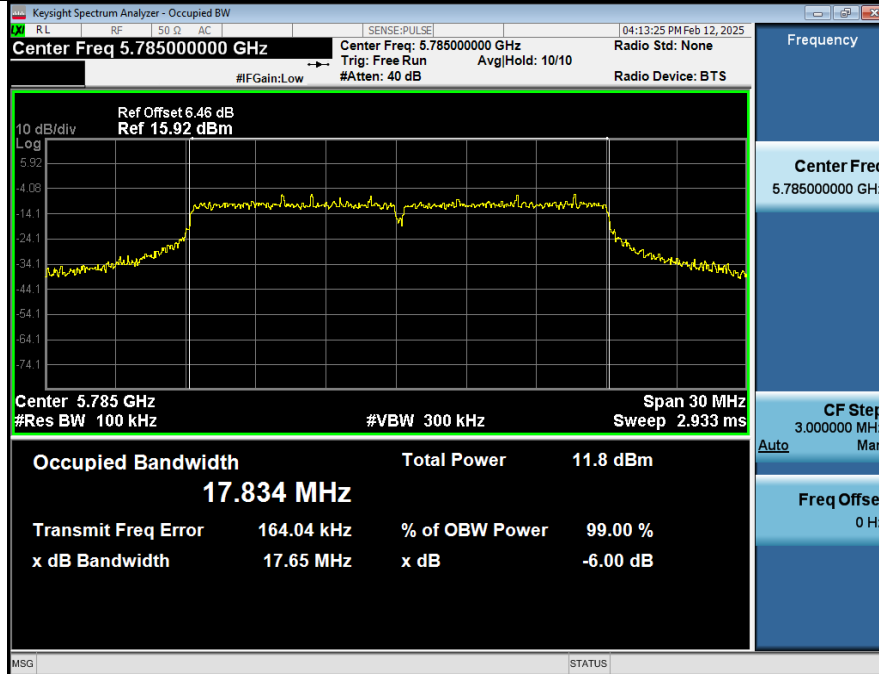
Condition	Antenna	Mode	Frequency(MHz)	6dB_Emission_Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5745.00	16.387	0.500	Pass
NVNT	ANT1	802.11a	5785.00	16.436	0.500	Pass
NVNT	ANT1	802.11a	5825.00	16.391	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	17.629	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	17.646	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	17.630	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	17.621	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	17.649	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	17.623	0.500	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	36.417	0.500	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	36.416	0.500	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	36.407	0.500	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	36.340	0.500	Pass

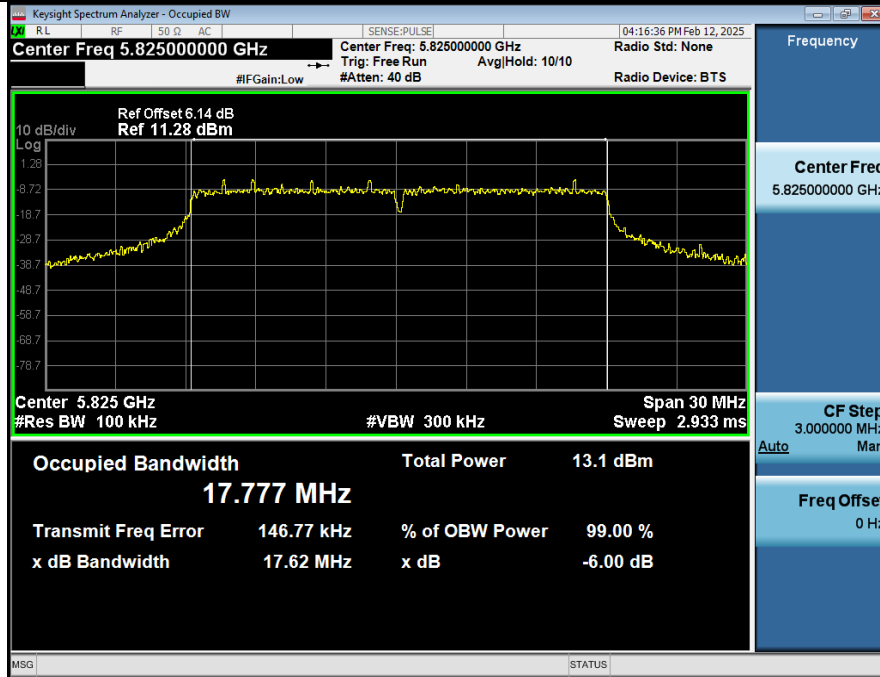
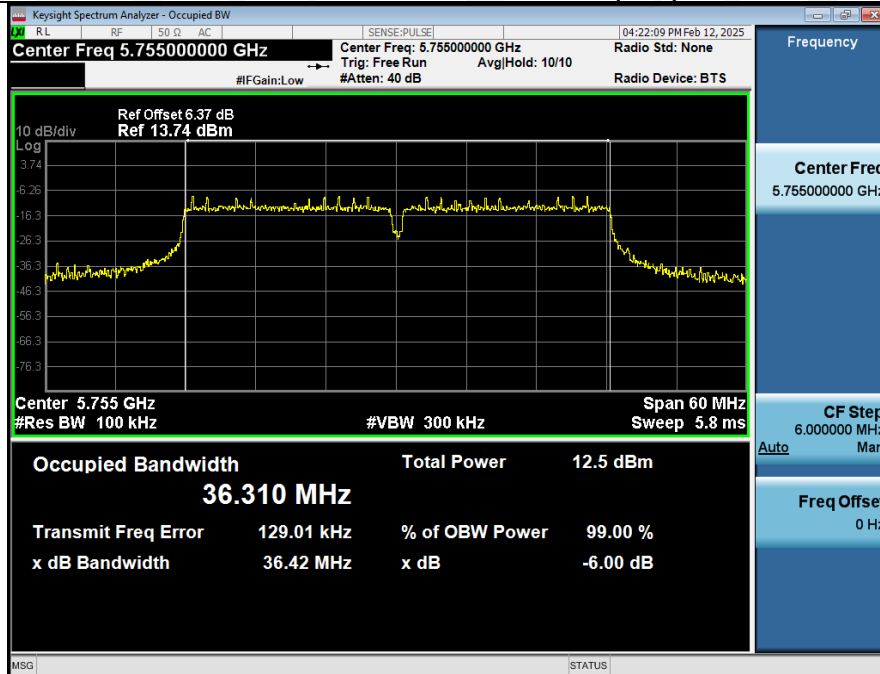


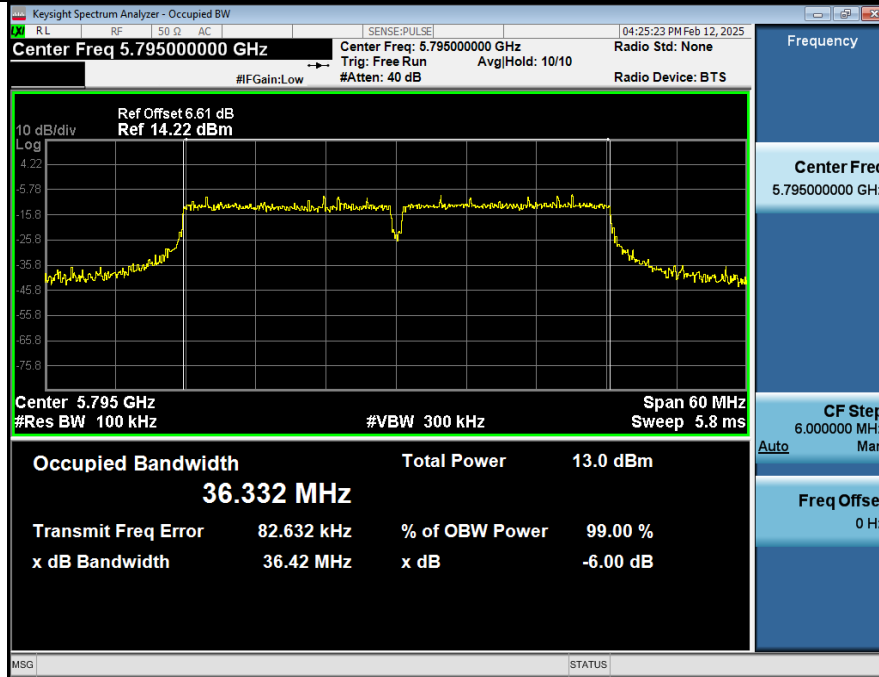
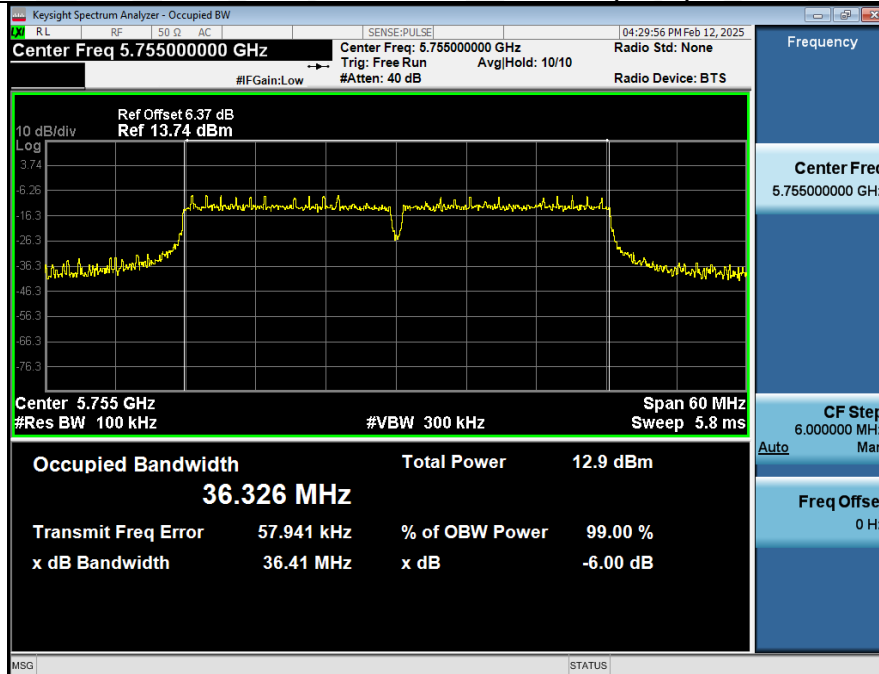


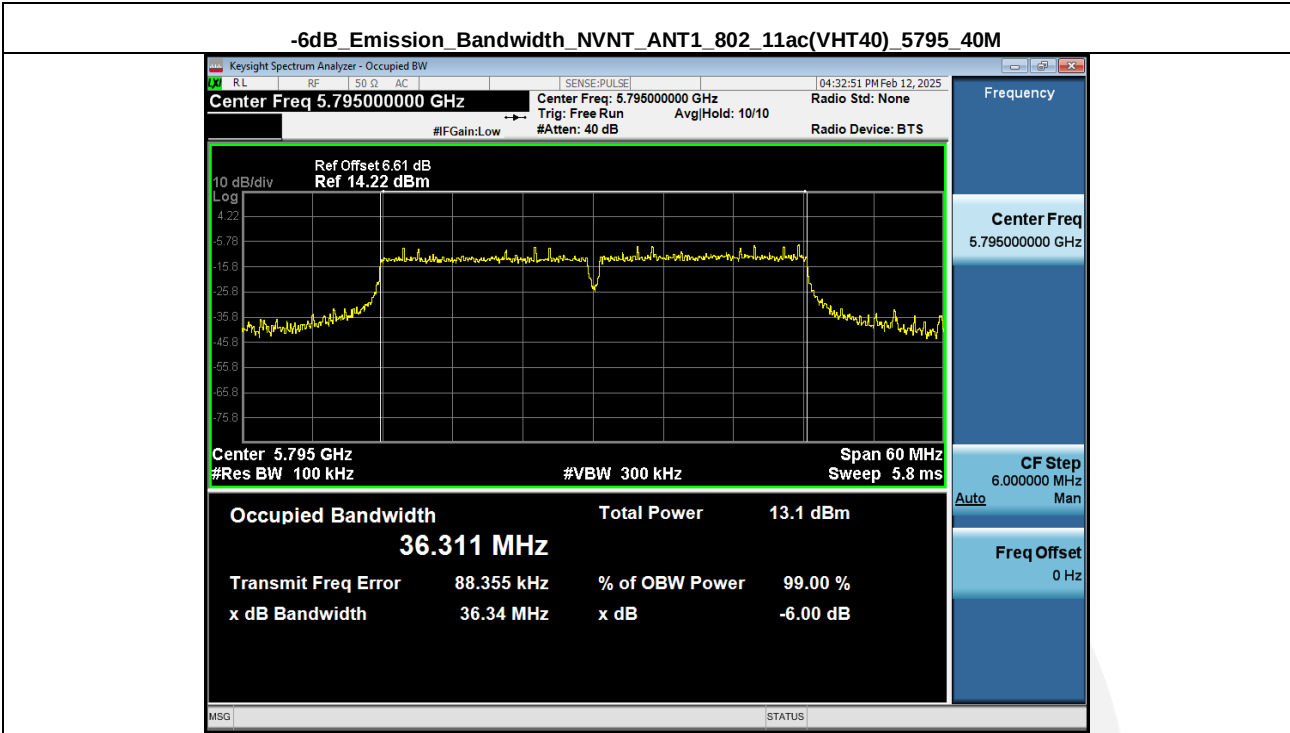
-6dB Emission Bandwidth_NVNT_ANT1_802_11a_5825_20M**-6dB Emission Bandwidth_NVNT_ANT1_802_11n(HT20)_5745_20M**

-6dB Emission Bandwidth NVNT_ANT1_802_11n(HT20)_5785_20M**-6dB Emission Bandwidth NVNT_ANT1_802_11n(HT20)_5825_20M**

-6dB Emission Bandwidth NVNT_ANT1_802_11ac(VHT20)_5745_20M**-6dB Emission Bandwidth NVNT_ANT1_802_11ac(VHT20)_5785_20M**

-6dB Emission Bandwidth NVNT_ANT1_802_11ac(VHT20)_5825_20M**-6dB Emission Bandwidth NVNT_ANT1_802_11n(HT40)_5755_40M**

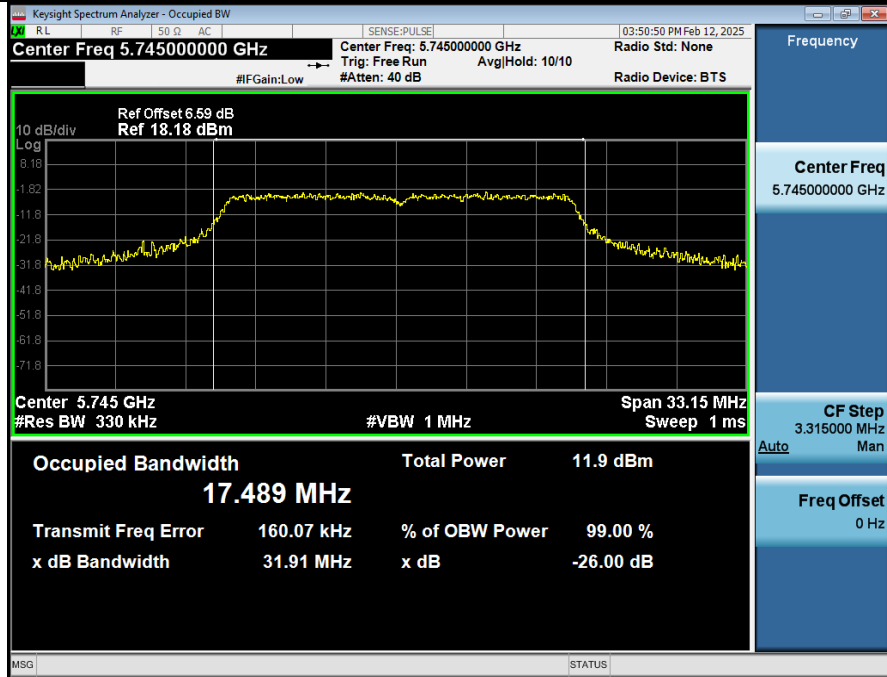
-6dB Emission Bandwidth NVNT_ANT1_802_11n(HT40)_5795_40M**-6dB Emission Bandwidth NVNT_ANT1_802_11ac(VHT40)_5755_40M**



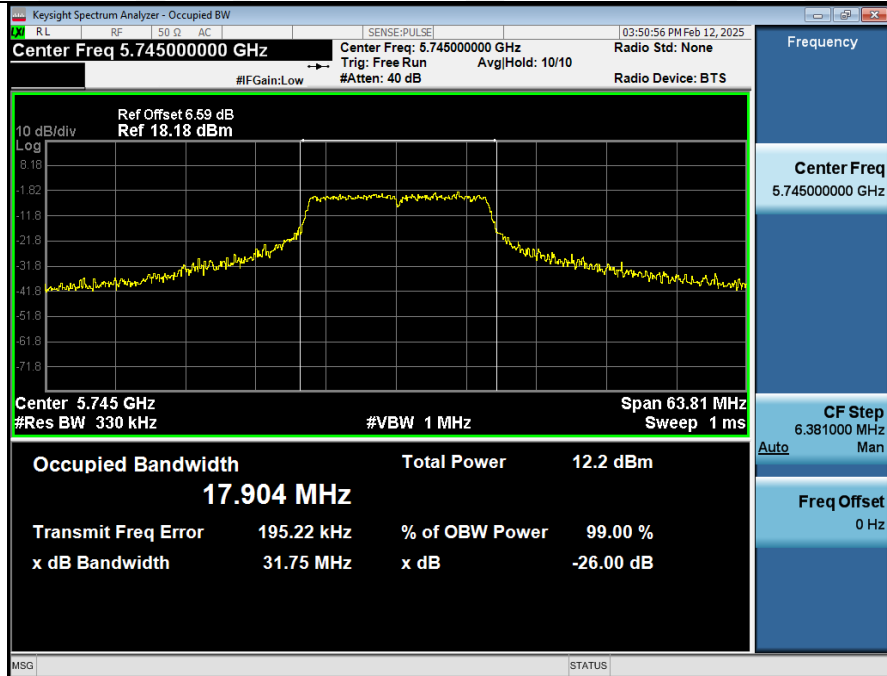
Condition	Antenna	Modulation	Frequency(MHz)	26dB Emission Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5745.00	31.75	17.49
NVNT	ANT1	802.11a	5785.00	27.08	17.38
NVNT	ANT1	802.11a	5825.00	25.77	17.31
NVNT	ANT1	802.11n(HT20)	5745.00	31.39	18.78
NVNT	ANT1	802.11n(HT20)	5785.00	31.45	18.71
NVNT	ANT1	802.11n(HT20)	5825.00	28.05	18.52
NVNT	ANT1	802.11ac(VHT20)	5745.00	34.03	18.79
NVNT	ANT1	802.11ac(VHT20)	5785.00	29.07	18.75
NVNT	ANT1	802.11ac(VHT20)	5825.00	26.86	18.57
NVNT	ANT1	802.11n(HT40)	5755.00	76.48	37.35
NVNT	ANT1	802.11n(HT40)	5795.00	59.78	37.39
NVNT	ANT1	802.11ac(VHT40)	5755.00	80.56	37.56
NVNT	ANT1	802.11ac(VHT40)	5795.00	65.37	37.46



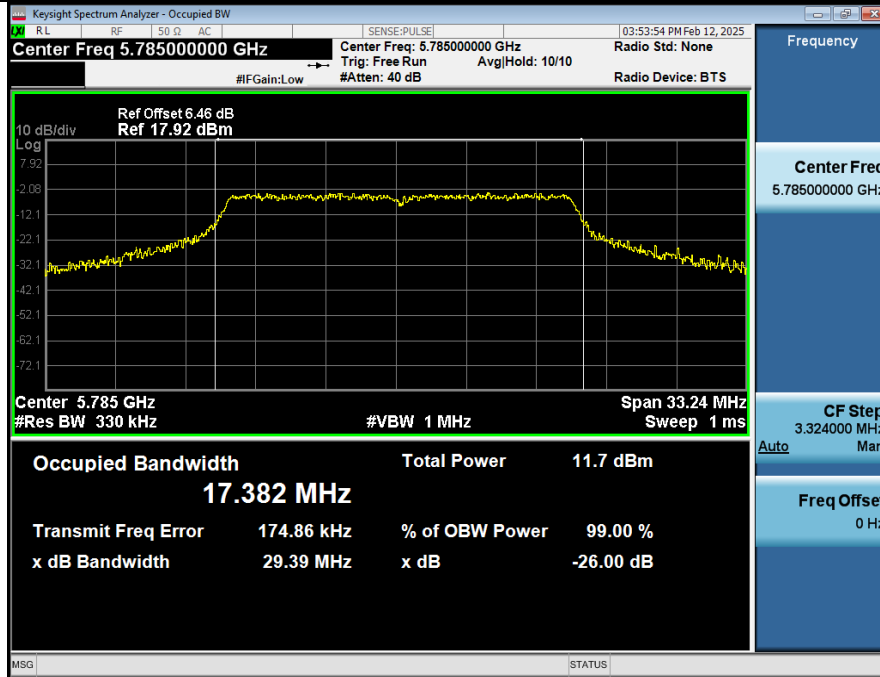
99%_OCB_NVNT_ANT1_802_11a_5745



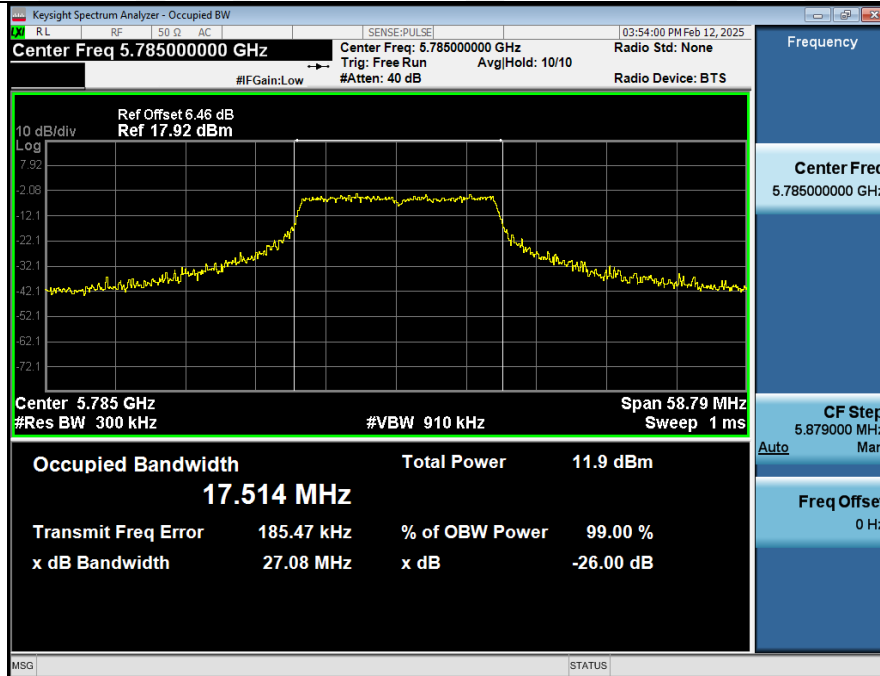
-26BW_NVNT_ANT1_802_11a_5745



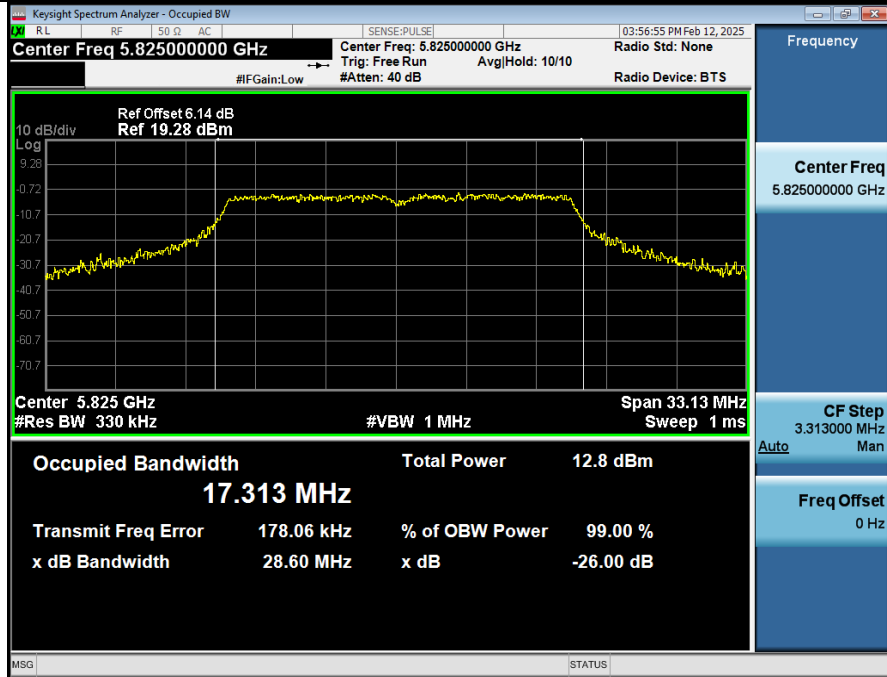
99%_OCB_NVNT_ANT1_802_11a_5785



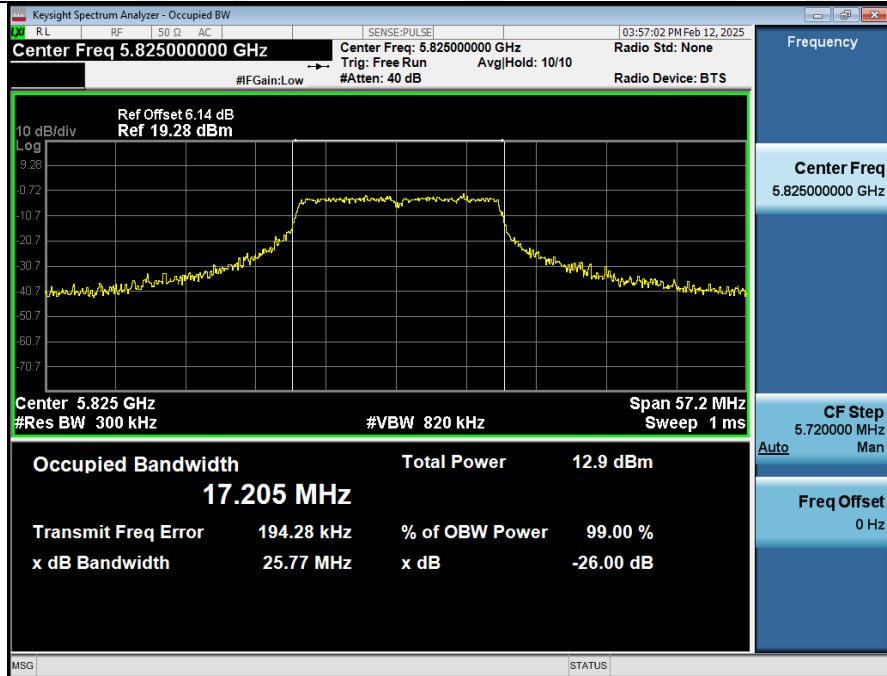
-26BW_NVNT_ANT1_802_11a_5785



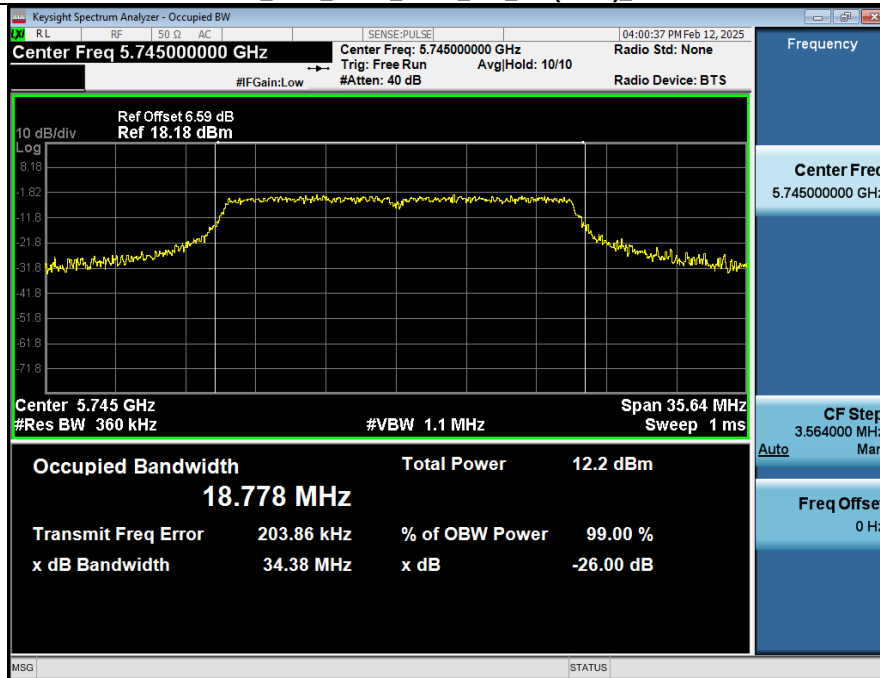
99%_OCB_NVNT_ANT1_802_11a_5825



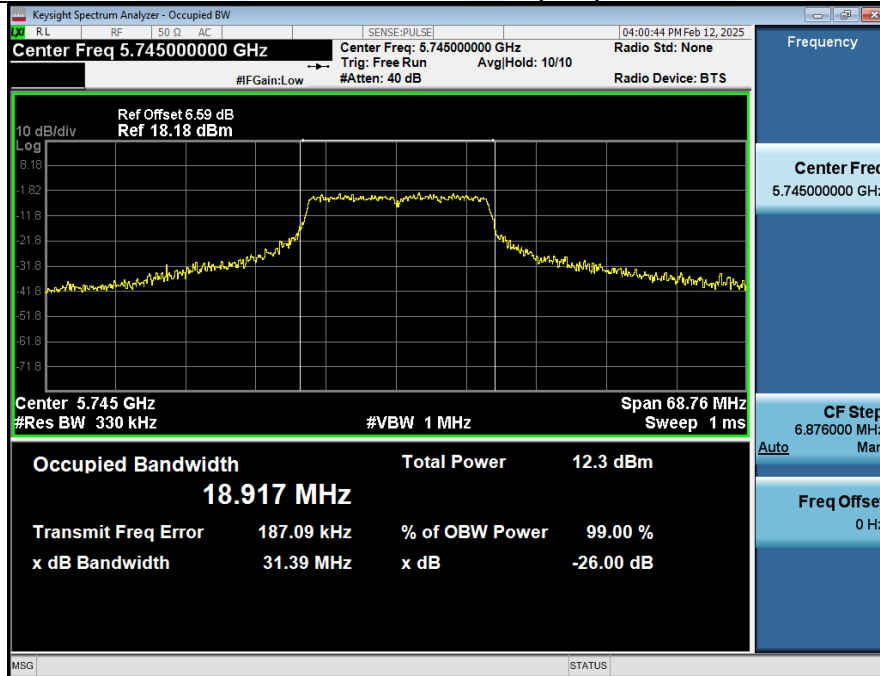
-26BW_NVNT_ANT1_802_11a_5825



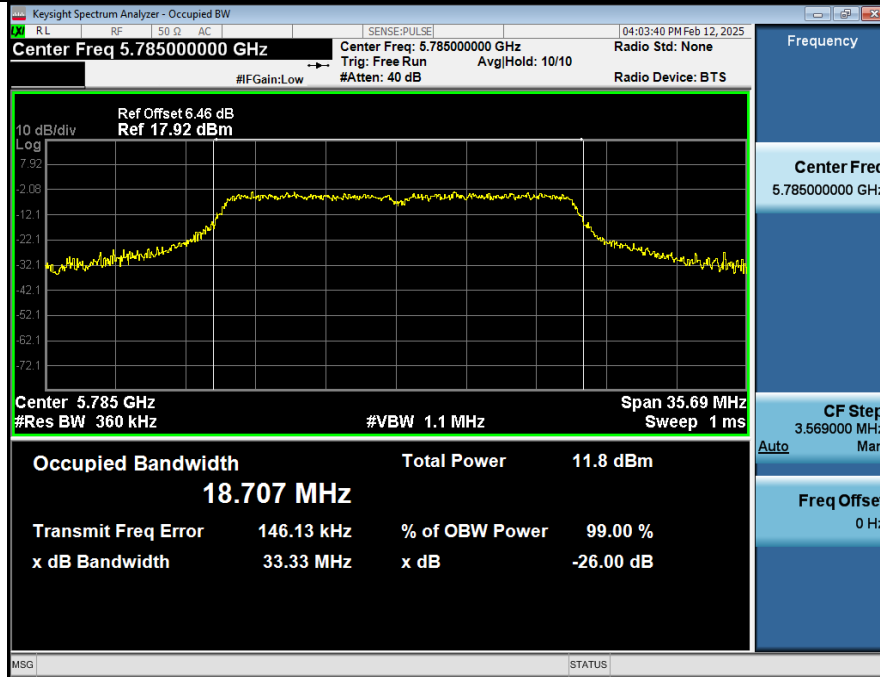
99% OCB NVNT ANT1_802_11n(HT20)_5745



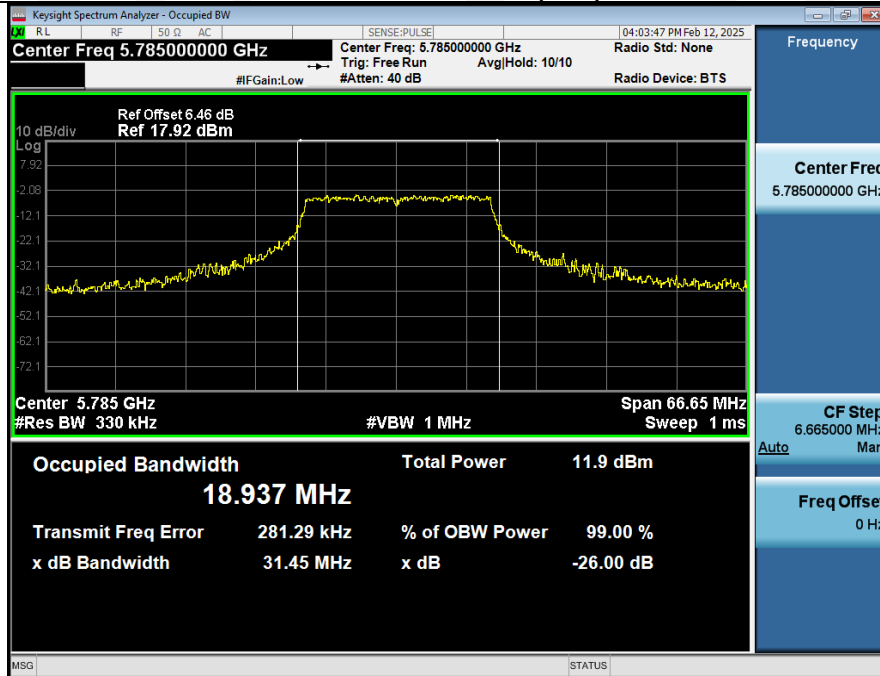
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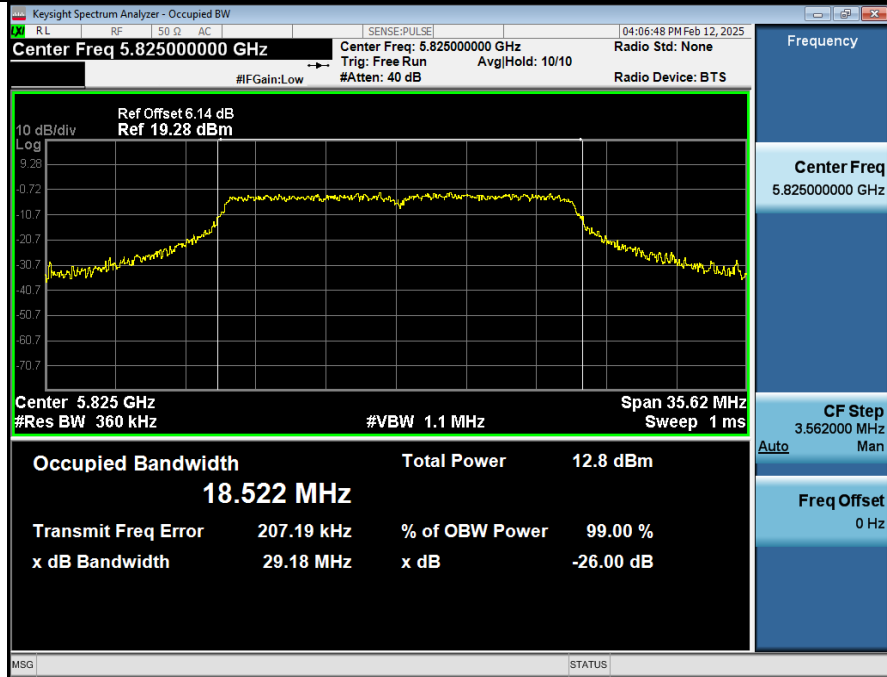
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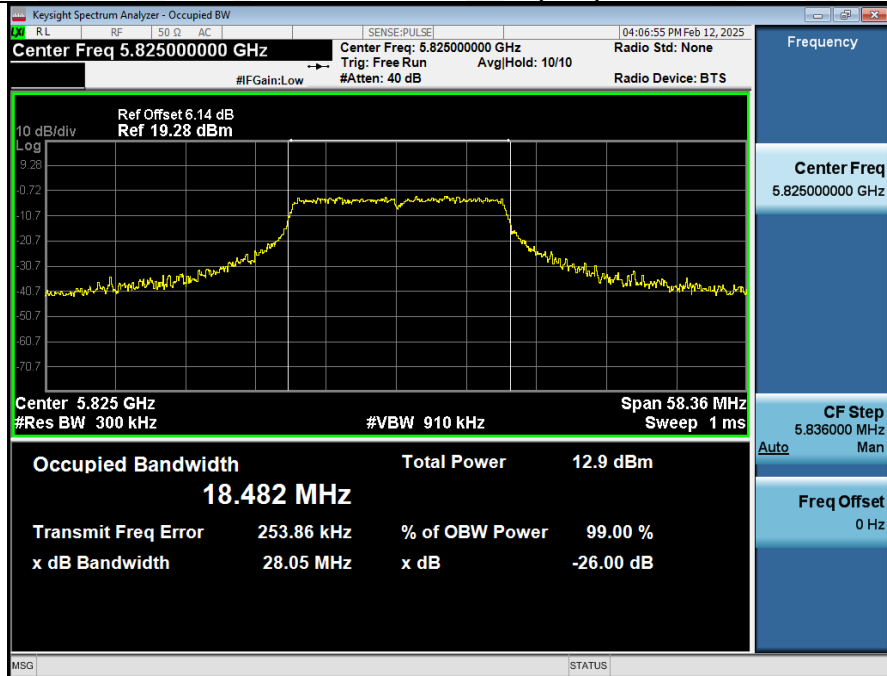
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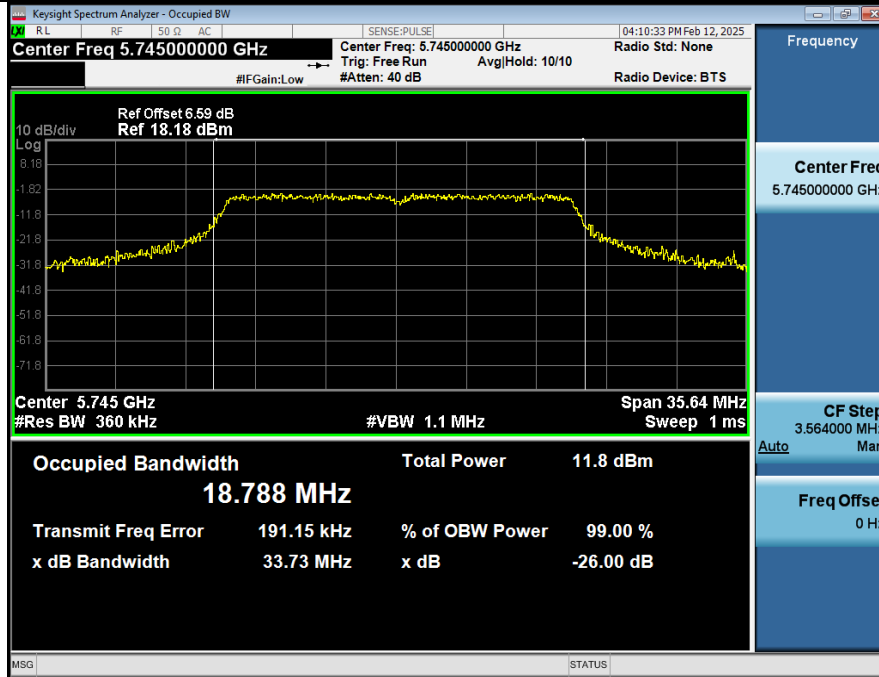
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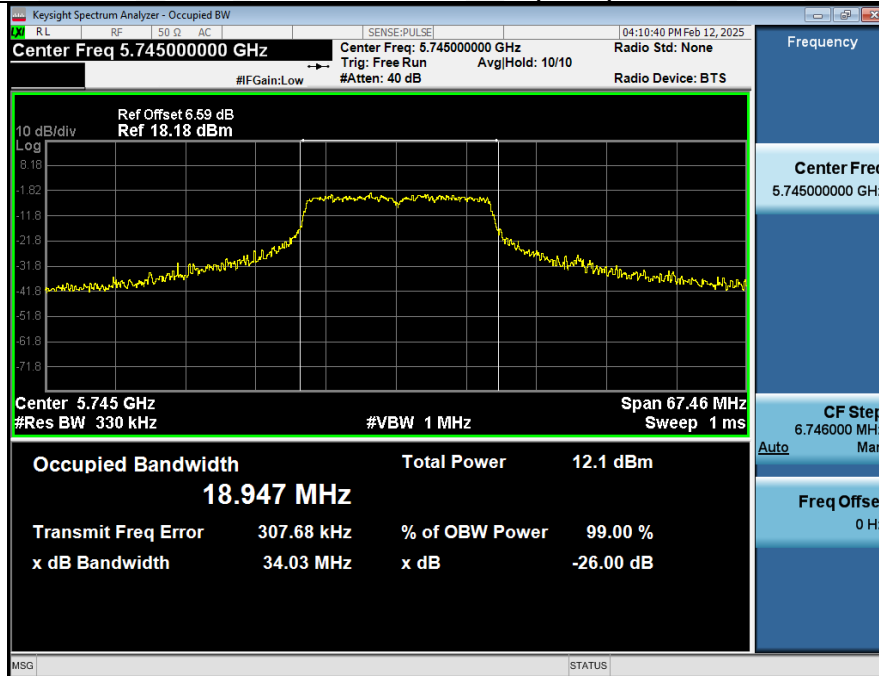
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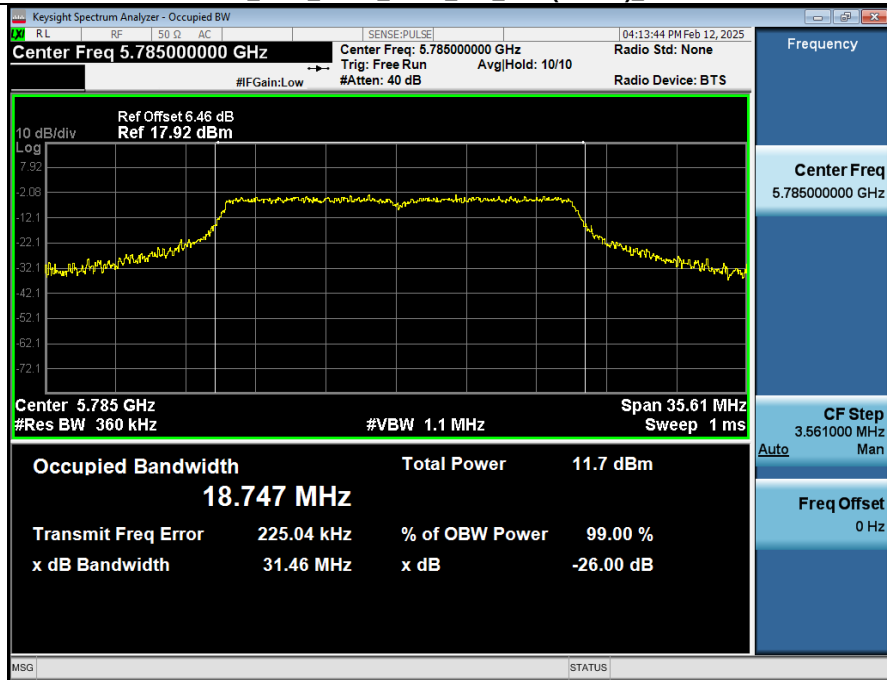
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5745



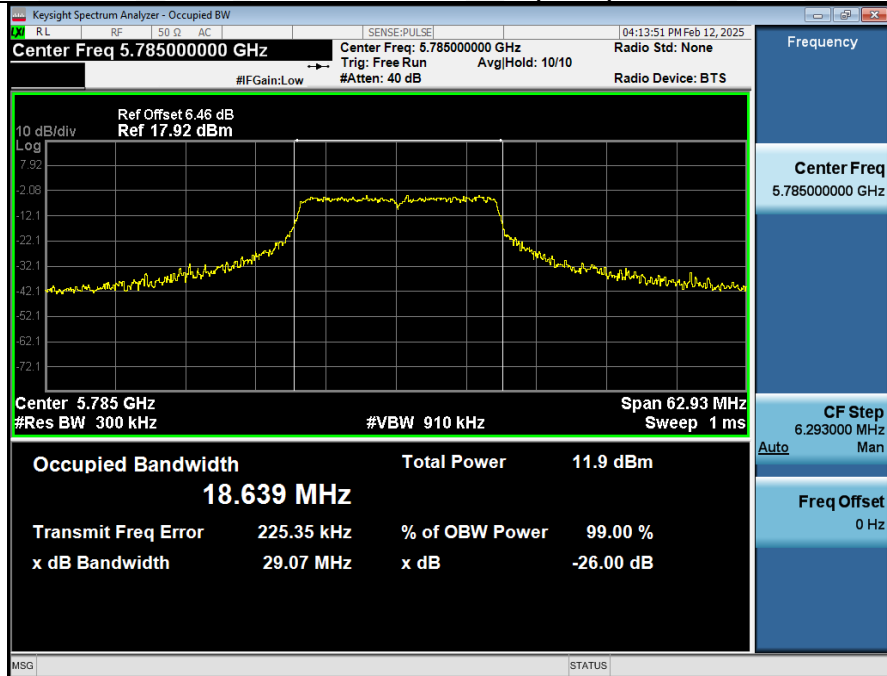
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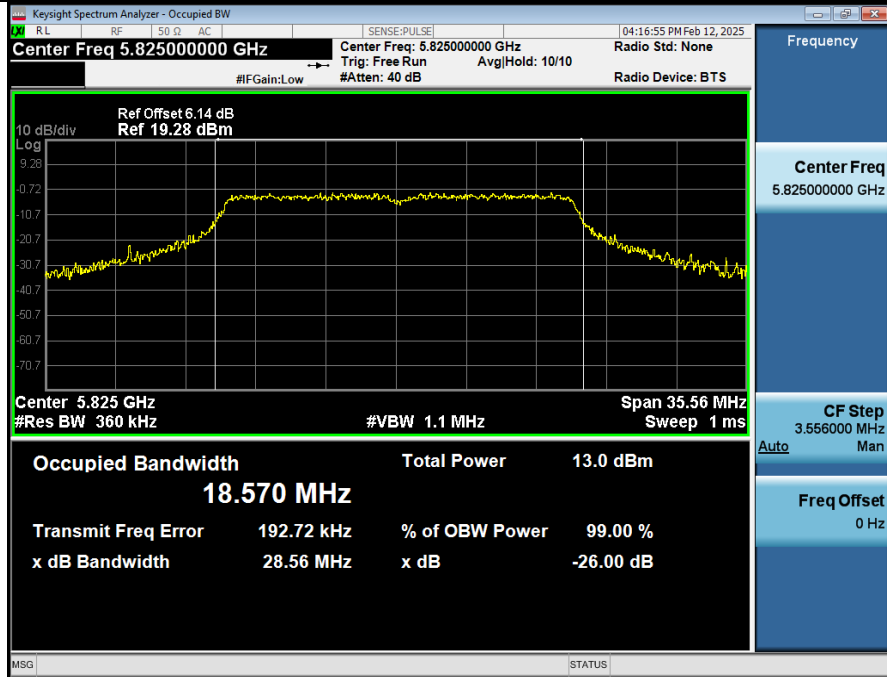
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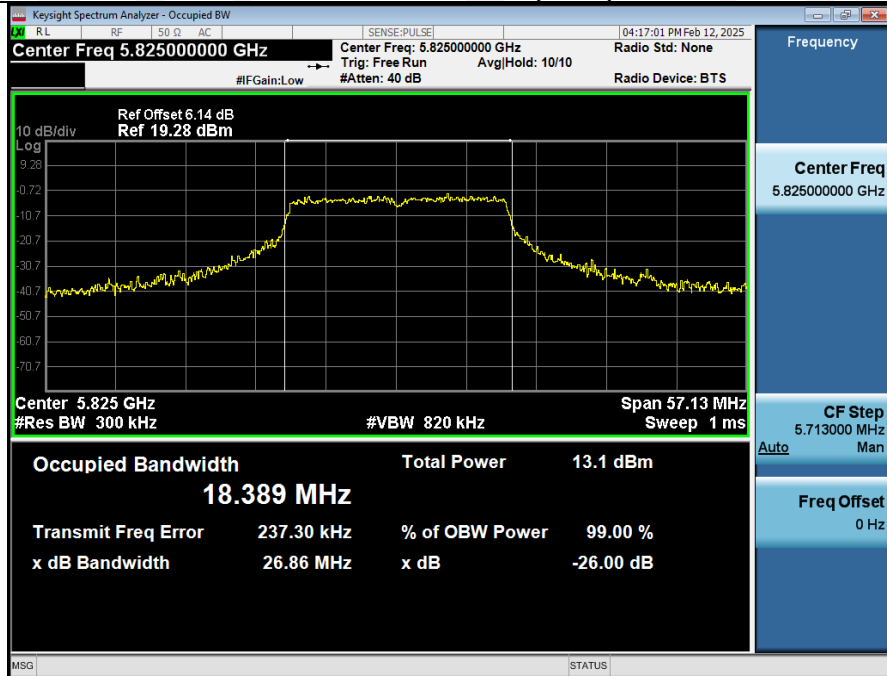
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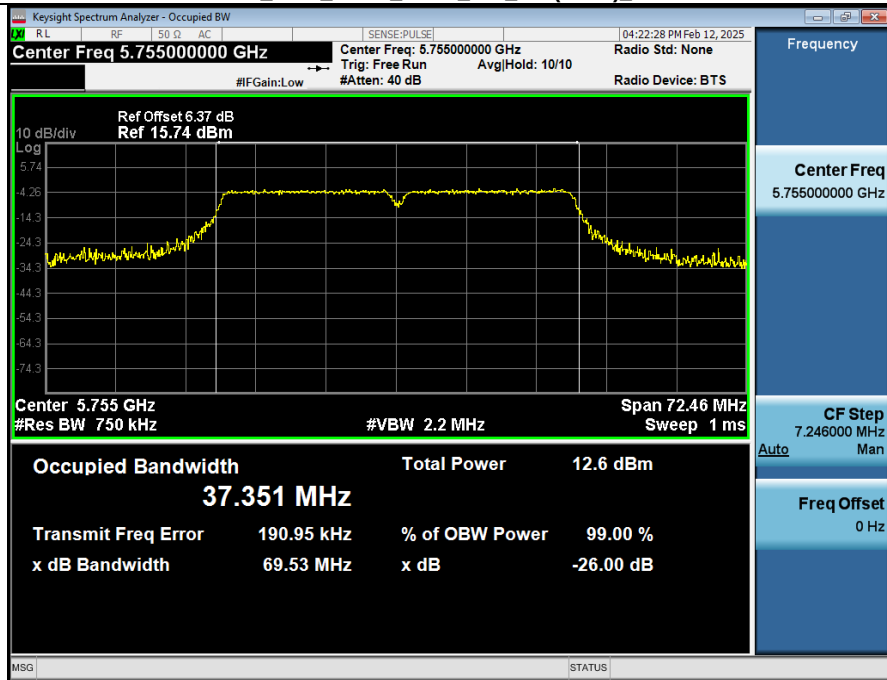
99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5825



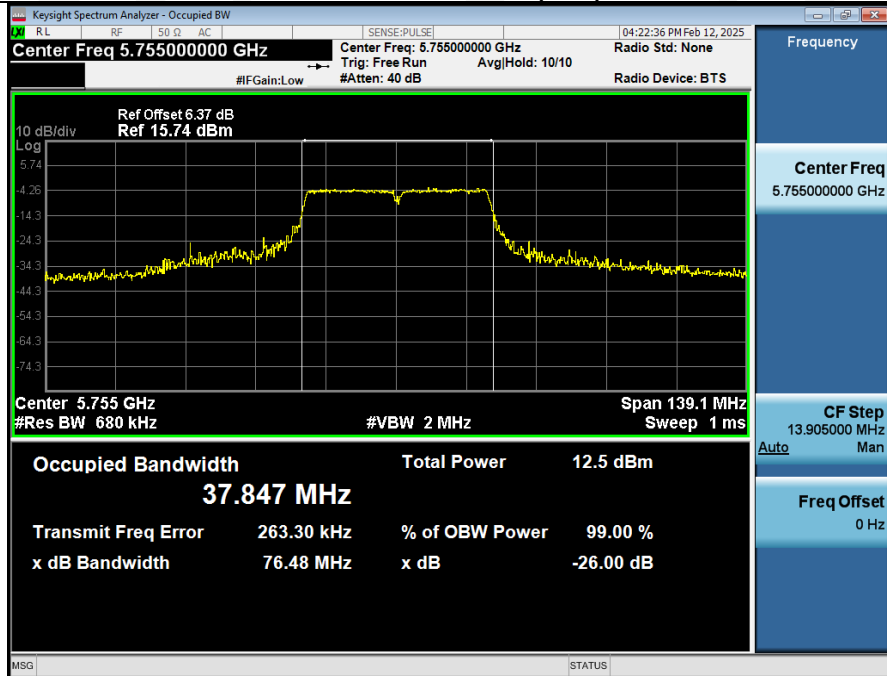
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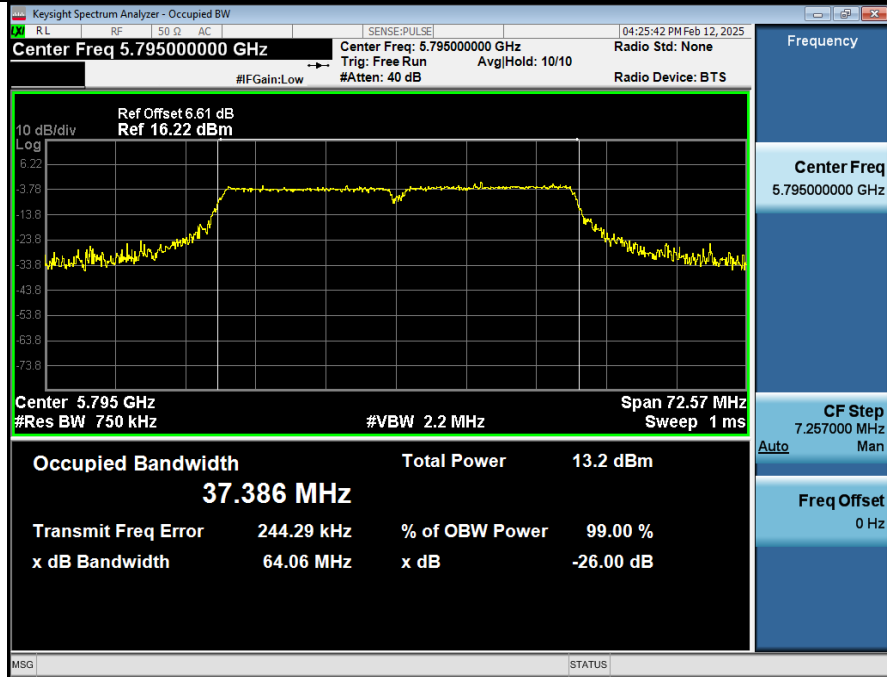
99% OCB NVNT ANT1_802_11n(HT40)_5755



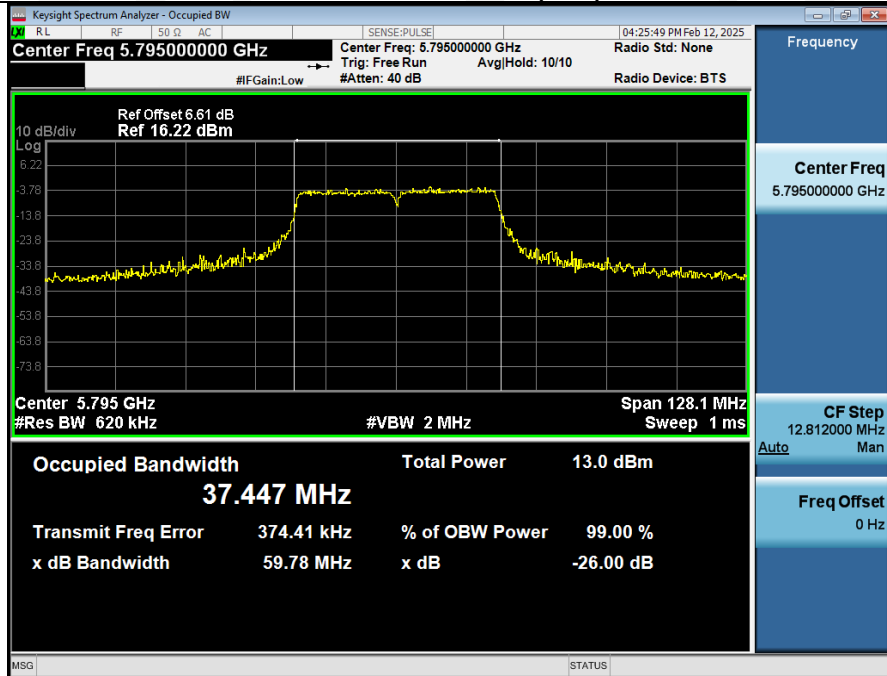
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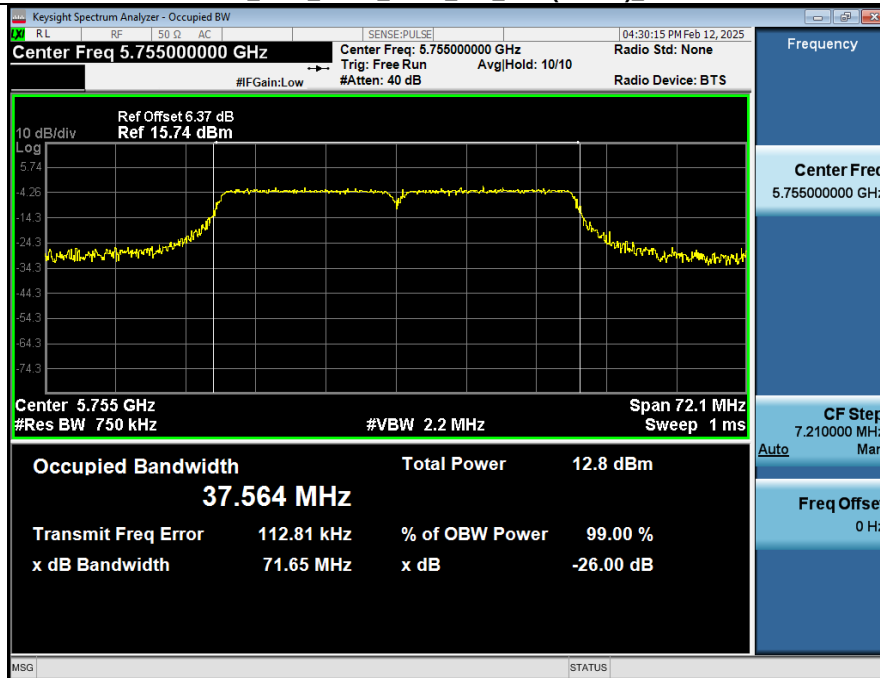
99% OCB NVNT ANT1_802_11n(HT40)_5795



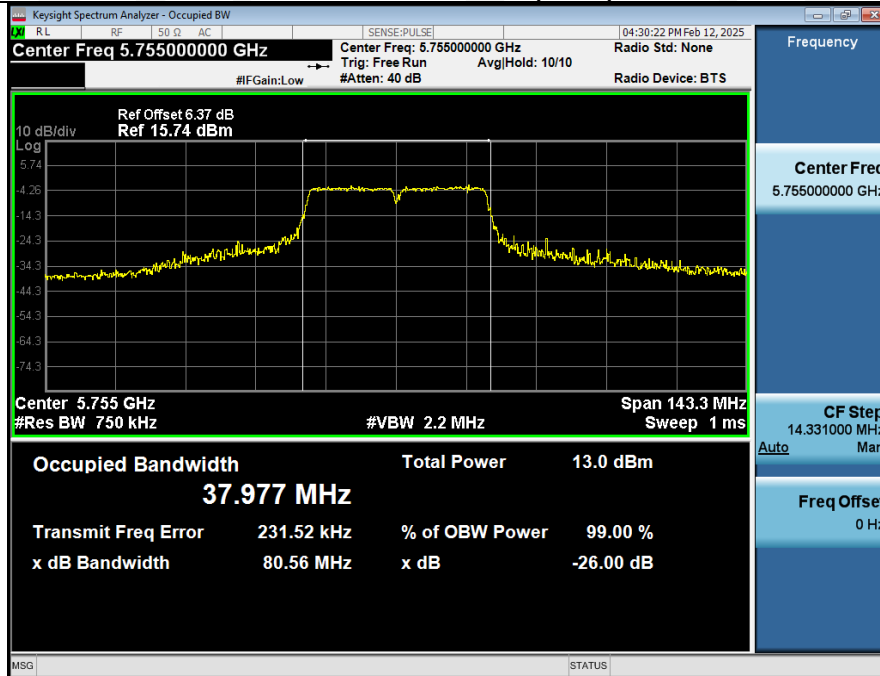
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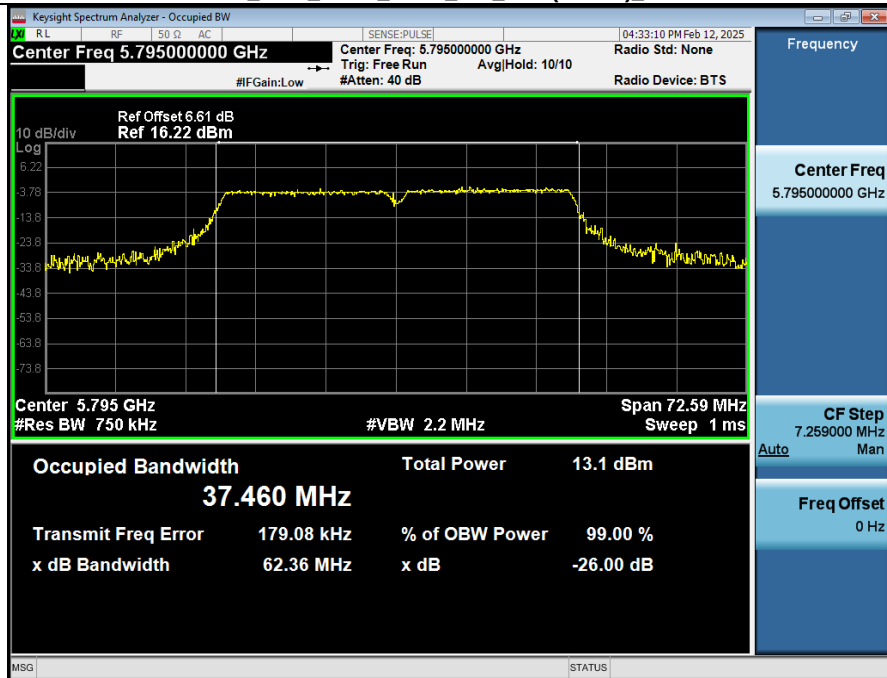
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5755



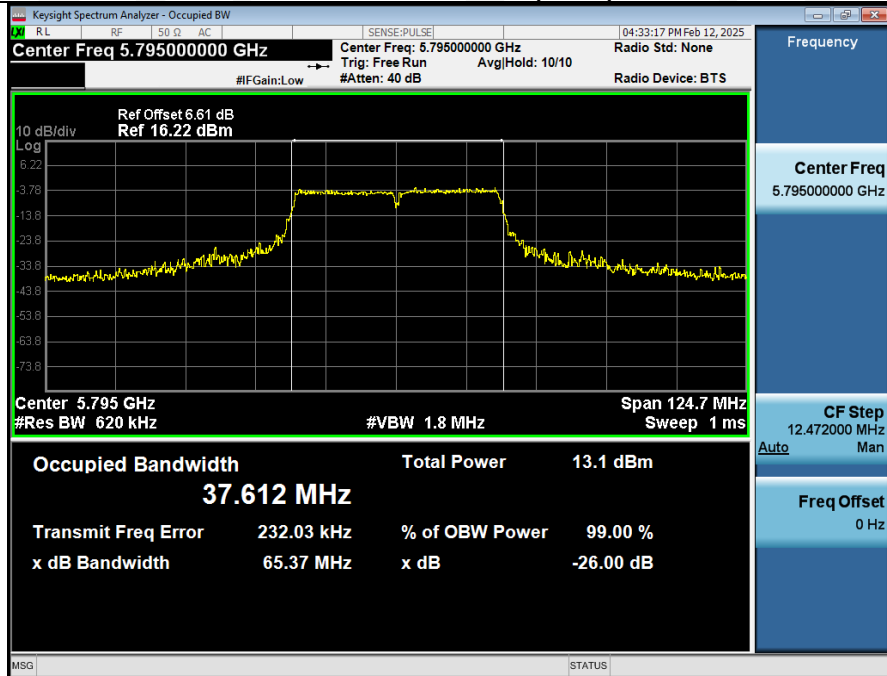
-26BW_NVNT_ANT1_802_11ac(VHT40)_5755



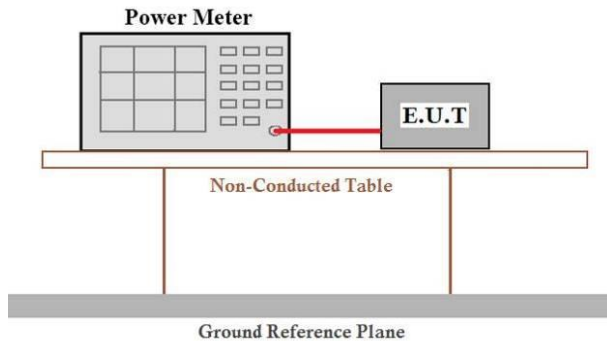
99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5795



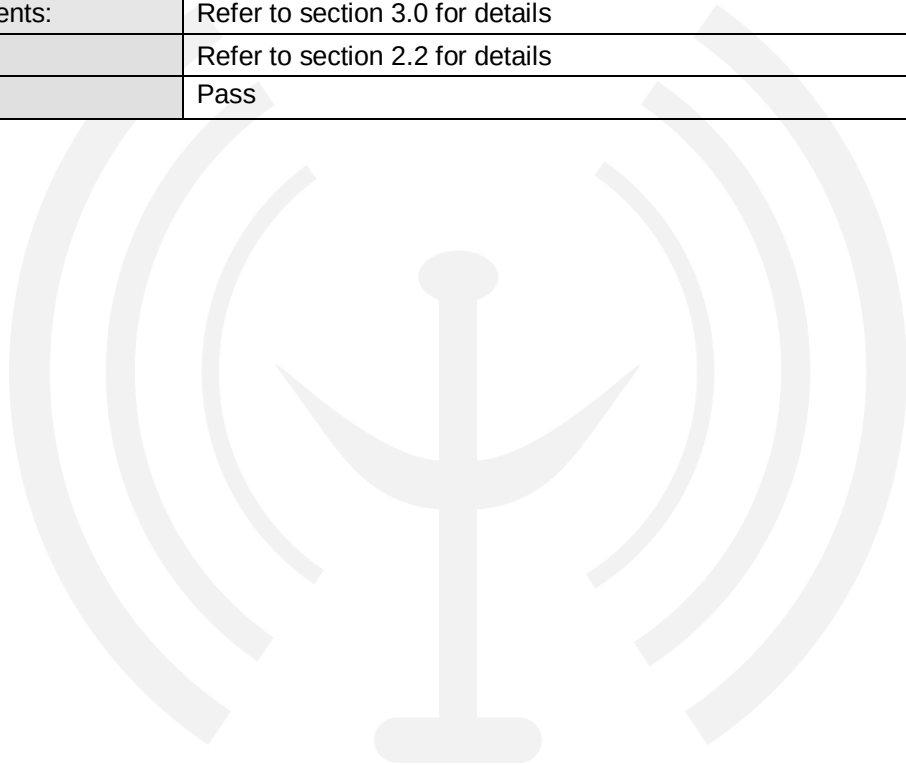
-26BW_NVNT_ANT1_802_11ac(VHT40)_5795



4.4 Maximum Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407, RSS-247 §6.2
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W. IC: For the 5.15–5.25 GHz band, For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. For the 5.25–5.35 GHz band, Other than devices installed in vehicles, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test setup:	 The diagram illustrates the test setup. A 'Power Meter' is connected via a red cable to an 'E.U.T.' (Equipment Under Test). Both are placed on a 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.
Test procedure:	Measurement using an RF average power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied

	a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass



Measurement Data:**Band 1 (5150-5250 MHz)**

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	2.37	2.33	4.70	24	Pass
NVNT	ANT1	802.11a	5200.00	2.12	1.76	3.88	24	Pass
NVNT	ANT1	802.11a	5240.00	4.14	1.77	5.91	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	1.20	1.89	3.09	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	1.03	1.87	2.90	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	2.99	1.87	4.86	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	0.95	1.87	2.82	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	0.96	1.87	2.83	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	3.28	1.85	5.13	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	0.47	3.19	3.66	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	2.25	3.19	5.44	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	0.37	3.15	3.52	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	1.91	3.19	5.10	24	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	58.50	2.33
NVNT	ANT1	802.11a	5200.00	66.67	1.76
NVNT	ANT1	802.11a	5240.00	66.56	1.77
NVNT	ANT1	802.11n(HT20)	5180.00	64.73	1.89
NVNT	ANT1	802.11n(HT20)	5200.00	64.95	1.87
NVNT	ANT1	802.11n(HT20)	5240.00	65.07	1.87
NVNT	ANT1	802.11ac(VHT20)	5180.00	65.07	1.87
NVNT	ANT1	802.11ac(VHT20)	5200.00	65.07	1.87
NVNT	ANT1	802.11ac(VHT20)	5240.00	65.29	1.85
NVNT	ANT1	802.11n(HT40)	5190.00	47.96	3.19
NVNT	ANT1	802.11n(HT40)	5230.00	47.96	3.19
NVNT	ANT1	802.11ac(VHT40)	5190.00	48.45	3.15
NVNT	ANT1	802.11ac(VHT40)	5230.00	47.96	3.19

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	58.50	2.33
NVNT	ANT1	802.11a	5200.00	66.67	1.76
NVNT	ANT1	802.11a	5240.00	66.56	1.77
NVNT	ANT1	802.11n(HT20)	5180.00	64.73	1.89
NVNT	ANT1	802.11n(HT20)	5200.00	64.95	1.87
NVNT	ANT1	802.11n(HT20)	5240.00	65.07	1.87
NVNT	ANT1	802.11ac(VHT20)	5180.00	65.07	1.87
NVNT	ANT1	802.11ac(VHT20)	5200.00	65.07	1.87
NVNT	ANT1	802.11ac(VHT20)	5240.00	65.29	1.85
NVNT	ANT1	802.11n(HT40)	5190.00	47.96	3.19
NVNT	ANT1	802.11n(HT40)	5230.00	47.96	3.19
NVNT	ANT1	802.11ac(VHT40)	5190.00	48.45	3.15
NVNT	ANT1	802.11ac(VHT40)	5230.00	47.96	3.19

