
FCC Test Report

Report No.: AGC00688230406FE04

FCC ID : 2AKC6-AX3010

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Wireless USB Adapter

BRAND NAME : N/A

MODEL NAME : AX3010, AX3008

APPLICANT : SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD

DATE OF ISSUE : May. 04, 2023

STANDARD(S) : FCC Part 15 Subpart C §15.247

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May. 04, 2023	Valid	Initial Release

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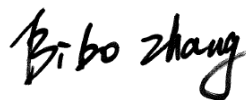
1. VERIFICATION OF CONFORMITY

Applicant	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
Address	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
manufacturer	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
Address	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
Factory	SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD
Address	3Floor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City, China
Product Designation	Wireless USB Adapter
Brand Name	N/A
Test Model	AX3010
Series Model	AX3008
Declaration of Difference	All the same except the model name.
Date of receipt of test item	Apr. 11, 2023
Date of test	Apr. 11, 2023–May 04, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By



Bibo Zhang
(Project Engineer)

May 04, 2023

Reviewed By



Calvin Liu
(Reviewer)

May 04, 2023

Approved By



Max Zhang
Authorized Officer

May 04, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

Equipment Type	WLAN 2.4G
Frequency Band	2400MHz ~ 2483.5MHz
Operation Frequency	2412MHz ~ 2462MHz
Output Power (Average)	IEEE 802.11b:6.31dBm; IEEE 802.11g:5.80dBm; IEEE 802.11n(HT20):6.07dBm; IEEE 802.11n(HT40):6.48dBm IEEE 802.11ax (HE20):6.11dBm; IEEE 802.11ax (HE40): 6.42dBm
Output Power (Peak)	IEEE 802.11b: 8.49dBm; IEEE 802.11g: 11.91dBm; IEEE 802.11n(HT20): 11.21dBm; IEEE 802.11n(HT40): 9.41dBm IEEE 802.11ax (HE20): 11.59dBm; IEEE 802.11ax (HE40): 9.35dBm
Output Power (MIMO- Average)	IEEE 802.11n(HT20): 9.00dBm; IEEE 802.11n(HT40): 9.21dBm IEEE 802.11ax (HE20): 8.93dBm; IEEE 802.11ax (HE40): 9.23dBm
Output Power (MIMO- Peak)	IEEE 802.11n(HT20): 13.94dBm; IEEE 802.11n(HT40): 12.17dBm IEEE 802.11ax (HE20): 14.33dBm; IEEE 802.11ax (HE40): 12.25dBm
Modulation	802.11b:(DQPSK, DBPSK,CCK)DSSS 802.11g/n:(64-QAM,16-QAM,QPSK, BPSK)OFDM 802.11ax:(1024-QAM,256-QAM,64-QAM,16-QAM,QPSK,BPSK)OFDMA
Data Rate	802.11b:1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ax: up to 574Mbps
Number of channels	11
Hardware Version	V2.1
Software Version	V1.12
Antenna Designation	PIFA antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	Please refer to report section 2.10 description
Number of transmit chain	2(802.11b/g/n all used two antennas,802.11b/g/n/ax support MIMO)
Power Supply	DC 5V by PC

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2.2. TABLE OF CARRIER FREQUENCIES

802.11b/g/n-HT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

802.11n-HT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

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2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps)	
									800nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

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2.4. IEEE 802.11AX MODULATION SCHEME

Table 27-79—HE-MCSs for 242-tone RU, $N_{SS} = 1$

HE-MCS Index	DCM	Modulation	R	N_{BPSCS}	N_{SD}	N_{CBPS}	N_{DBPS}	Data rate (Mb/s)		
								0.8 μ s GI	1.6 μ s GI	3.2 μ s GI
0	1	BPSK	1/2	1	117	117	58	4.3	4.0	3.6
	0		1/2		234	234	117	8.6	8.1	7.3
1	1	QPSK	1/2	2	117	234	117	8.6	8.1	7.3
	0		1/2		234	468	234	17.2	16.3	14.6
2	N/A		3/4		234	468	351	25.8	24.4	21.9
3	1	16-QAM	1/2	4	117	468	234	17.2	16.3	14.6
	0		1/2		234	936	468	34.4	32.5	29.3
4	1		3/4		117	468	351	25.8	24.4	21.9
	0		3/4		234	936	702	51.6	48.8	43.9
5	N/A	64-QAM	2/3	6	234	1 404	936	68.8	65.0	58.5
6			3/4				1 053	77.4	73.1	65.8
7			5/6				1 170	86.0	81.3	73.1
8		256-QAM	3/4	8		1 872	1 404	103.2	97.5	87.8
9			5/6				1 560	114.7	108.3	97.5
10		1024-QAM	3/4	10		2 340	1 755	129.0	121.9	109.7
11			5/6				1 950	143.4	135.4	121.9

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

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Table 27-87—HE-MCSs for 484-tone RU, $N_{SS} = 1$

HE-MCS Index	DCM	Modulation	R	N_{BPSCS}	N_{SD}	N_{CBPS}	N_{DBPS}	Data rate (Mb/s)		
								0.8 μ s GI	1.6 μ s GI	3.2 μ s GI
0	1	BPSK	1/2	1	234	234	117	8.6	8.1	7.3
	0		1/2		468	468	234	17.2	16.3	14.6
1	1	QPSK	1/2	2	234	468	234	17.2	16.3	14.6
	0		1/2		468	936	468	34.4	32.5	29.3
2	N/A		3/4		468	936	702	51.6	48.8	43.9
3	1	16-QAM	1/2	4	234	936	468	34.4	32.5	29.3
	0		1/2		468	1 872	936	68.8	65.0	58.5
4	1		3/4		234	936	702	51.6	48.8	43.9
	0		3/4		468	1 872	1 404	103.2	97.5	87.8
5	N/A	64-QAM	2/3	6	468	2 808	1 872	137.6	130.0	117.0
6			3/4				2 106	154.9	146.3	131.6
7			5/6				2 340	172.1	162.5	146.3
8		256-QAM	3/4	8		3 744	2 808	206.5	195.0	175.5
9			5/6				3 120	229.4	216.7	195.0
10		1024-QAM	3/4	10		4 680	3 510	258.1	243.8	219.4
11			5/6				3 900	286.8	270.8	243.8

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

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2.5. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AKC6-AX3010** filing to comply with the FCC Part 15 requirements.

2.6. TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 662911	KDB 662911 D01 Multiple Transmitter Output v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

2.7. SPECIAL ACCESSORIES

Refer to section 5.2.

2.8. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.9. ANTENNA REQUIREMENT

Standard Requirement
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. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. For the antenna gain, please refer to the description in Chapter 2.10 of the report.

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2.10. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 1	Ant 2	
2.4GWIFI PIFA Antenna List (2.4GHz 2*2 MIMO)						
PIFA Antenna	2400~2483.5	2	20, 40, 80	1.34	2.11	5.12

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ax mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01;$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for } 20 \text{ MHz channel widths with } N_{ANT} \geq 5.$$

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain..

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel transmitting (TX)
2	Middle channel transmitting (TX)
3	High channel transmitting (TX)

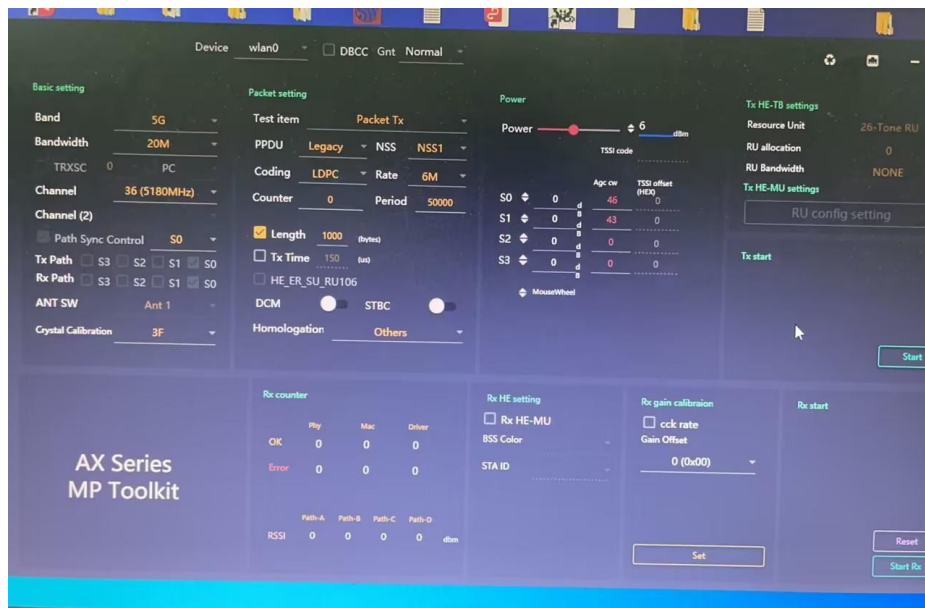
Note:

- 1) Transmit by 802.11b with Data rate (1/2/5.5/11)
- 2) Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)
- 3) Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)
- 4) Transmit by 802.11n (40MHz) with Data rate (13.5/27/40.5/54/81/108/121.5/135)
- 5) Transmit by 802.11ax (20MHz) with Data rate (MCS0-MCS15)
- 6) Transmit by 802.11ax (40MHz) with Data rate (MCS0-MCS15)
- 7) The test channel for 20MHz bandwidth system is channel 1, 6 and 11.
- 8) The test channel for 40MHz bandwidth system is channel 3, 6 and 9.

Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.

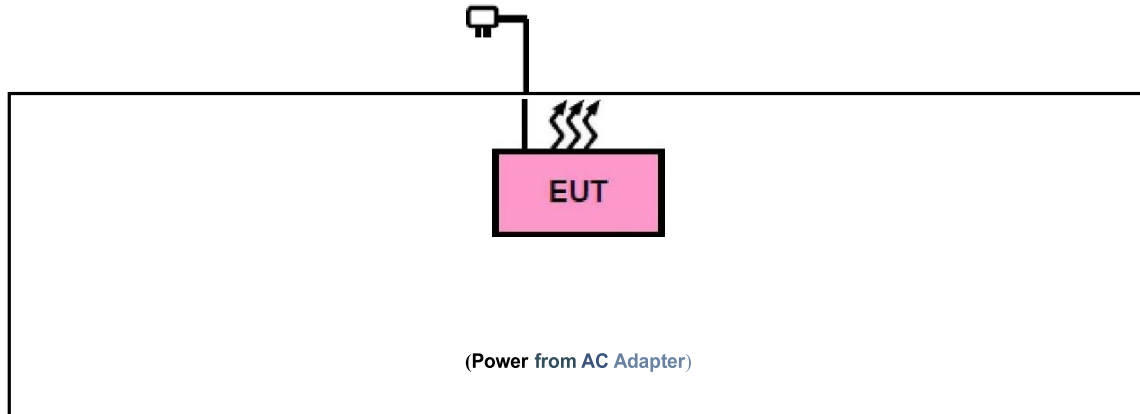
Software Setting



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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	Identifier	Note
1	Wireless USB Adapter	AX3010	2AKC6-AX3010	EUT

5.3. SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(1)	RF Output Power	Pass
3	§15.247 (a)(1)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
4	§15.247 (d)	Conducted Spurious Emission	Pass
5	§15.209	Radiated Emission& Band Edge	Pass
6	§15.207	AC Power Line Conducted Emission	Pass

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Aug. 04, 2022	Aug. 03, 2023
LISN	R&S	ESH2-Z5	100086	Jun. 08, 2022	Jun. 07, 2023
Test software	R&S	ES-K1 (Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2022	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	N/A	N/A
Attenuator	ZHINAN	E-002	N/A	Sep. 01, 2022	Aug. 31, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 21, 2023	Apr. 20, 2024
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 01, 2022	Aug. 31, 2023
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. RF OUTPUT POWER MEASUREMENT

7.1 MEASUREMENT LIMITS

For DTSSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

7.2 MEASUREMENT PROCEDURE

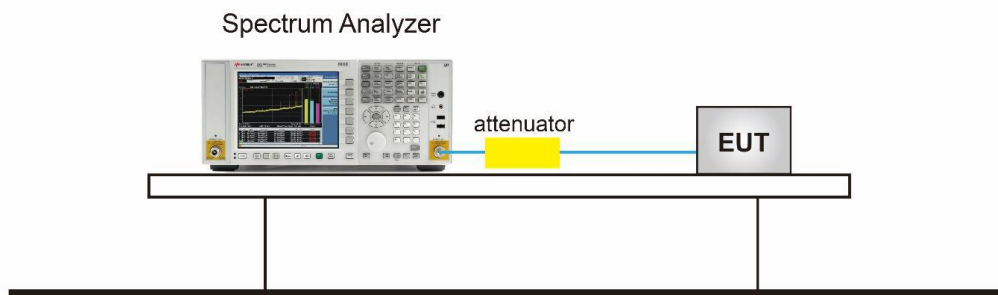
☒ For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the RBW = 1 MHz.
3. Set the VBW $\geq [3 \times \text{RBW}]$.
4. Set the Span $\geq [1.5 \times \text{DTS bandwidth}]$.
5. Sweep time=Auto couple.
6. Detector function=Peak.
7. Trace Mode=Max hold.
8. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
9. The indicated level is the peak output power, after any corrections for external attenuators and cables.

☒ For Average power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set Span to at least 1.5 times the OBW.
3. Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
4. Set VBW $\geq 3 \times \text{RBW}$.
5. Sweep Time=Auto couple.
6. Detector function=RMS (i.e., power averaging).
7. Trace average at least 100 traces in power averaging (rms) mode;
8. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
9. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.
10. Record the test results in the report.

7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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7.4 MEASUREMENT RESULT

Test Data of Conducted Output Power-ANT 1					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	6.31	8.49	≤30	Pass
	2437	5.40	7.38	≤30	Pass
	2462	5.37	7.27	≤30	Pass
802.11g	2412	5.60	11.91	≤30	Pass
	2437	5.80	10.67	≤30	Pass
	2462	5.12	10.61	≤30	Pass
802.11n20	2412	6.07	11.21	≤30	Pass
	2437	5.20	10.16	≤30	Pass
	2462	4.62	9.96	≤30	Pass
802.11n40	2422	6.48	9.41	≤30	Pass
	2437	5.48	8.60	≤30	Pass
	2452	5.35	8.63	≤30	Pass
802.11ax20	2412	6.11	11.59	≤30	Pass
	2437	4.92	10.33	≤30	Pass
	2462	4.85	10.30	≤30	Pass
802.11ax40	2422	6.42	9.35	≤30	Pass
	2437	5.26	8.41	≤30	Pass
	2452	5.31	8.48	≤30	Pass

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Test Data of Conducted Output Power-ANT 2					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	6.13	7.91	≤30	Pass
	2437	5.14	7.27	≤30	Pass
	2462	4.65	6.54	≤30	Pass
802.11g	2412	6.08	11.07	≤30	Pass
	2437	4.44	10.00	≤30	Pass
	2462	5.36	10.42	≤30	Pass
802.11n20	2412	5.91	10.62	≤30	Pass
	2437	4.52	9.56	≤30	Pass
	2462	5.12	9.80	≤30	Pass
802.11n40	2422	5.90	8.90	≤30	Pass
	2437	4.87	7.89	≤30	Pass
	2452	5.51	8.38	≤30	Pass
802.11ax20	2412	5.72	11.03	≤30	Pass
	2437	4.40	9.94	≤30	Pass
	2462	4.90	10.34	≤30	Pass
802.11ax40	2422	6.02	9.12	≤30	Pass
	2437	4.94	7.87	≤30	Pass
	2452	5.21	8.33	≤30	Pass

Test Data of Conducted Output Power-MIMO					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	2412	9.00	13.94	≤30	Pass
	2437	7.88	12.88	≤30	Pass
	2462	7.89	12.89	≤30	Pass
802.11n40	2422	9.21	12.17	≤30	Pass
	2437	8.20	11.27	≤30	Pass
	2452	8.44	11.52	≤30	Pass
802.11ax20	2412	8.93	14.33	≤30	Pass
	2437	7.68	13.15	≤30	Pass
	2462	7.89	13.33	≤30	Pass
802.11ax40	2422	9.23	12.25	≤30	Pass
	2437	8.11	11.16	≤30	Pass
	2452	8.27	11.42	≤30	Pass

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8. 6DB BANDWIDTH MEASUREMENT

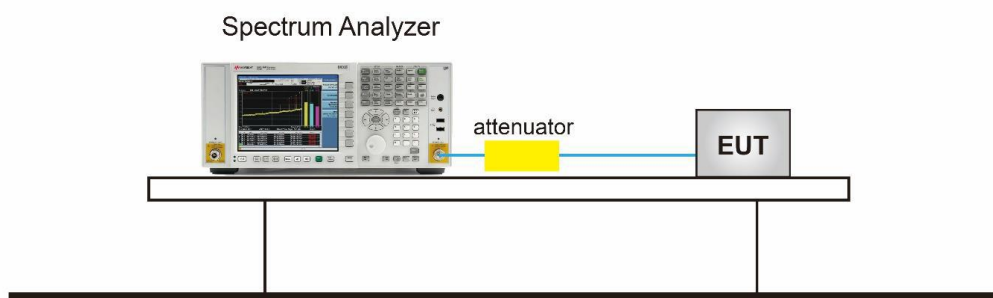
8.1 MEASUREMENT LIMITS

The minimum 6 dB bandwidth shall be 500 kHz.

8.2 MEASUREMENT PROCEDURE

- 1) The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
- 2) The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3) Set to the maximum power setting and enable the EUT transmit continuously.
- 4) For 6dB Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement.
- 5) For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
- 6) Detector = peak
- 7) Trace mode = max hold.
- 8) Sweep = auto couple.
- 9) Allow the trace to stabilize.
- 10) Measure and record the results in the test report.

8.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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8.4 MEASUREMENT RESULTS

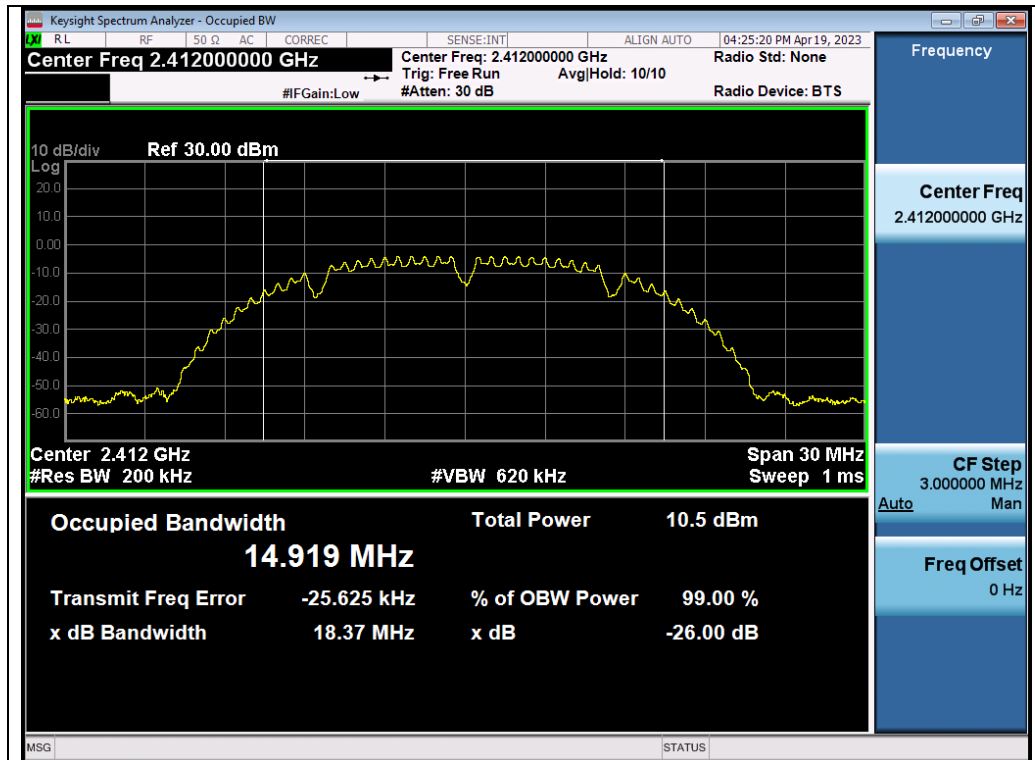
Test Data of Occupied Bandwidth and DTS Bandwidth-ANT 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11b	2412	14.919	12.007	≥0.5	Pass
	2437	14.915	11.065	≥0.5	Pass
	2462	14.929	10.113	≥0.5	Pass
802.11g	2412	16.664	16.341	≥0.5	Pass
	2437	16.671	16.342	≥0.5	Pass
	2462	16.670	16.348	≥0.5	Pass
802.11n20	2412	17.782	17.586	≥0.5	Pass
	2437	17.774	17.571	≥0.5	Pass
	2462	17.789	17.581	≥0.5	Pass
802.11n40	2422	36.569	36.477	≥0.5	Pass
	2437	36.618	36.468	≥0.5	Pass
	2452	36.659	36.482	≥0.5	Pass
802.11ax20	2412	18.966	18.599	≥0.5	Pass
	2437	18.967	18.649	≥0.5	Pass
	2462	18.964	18.698	≥0.5	Pass
802.11ax40	2422	37.990	38.032	≥0.5	Pass
	2437	37.982	37.969	≥0.5	Pass
	2452	37.997	38.047	≥0.5	Pass

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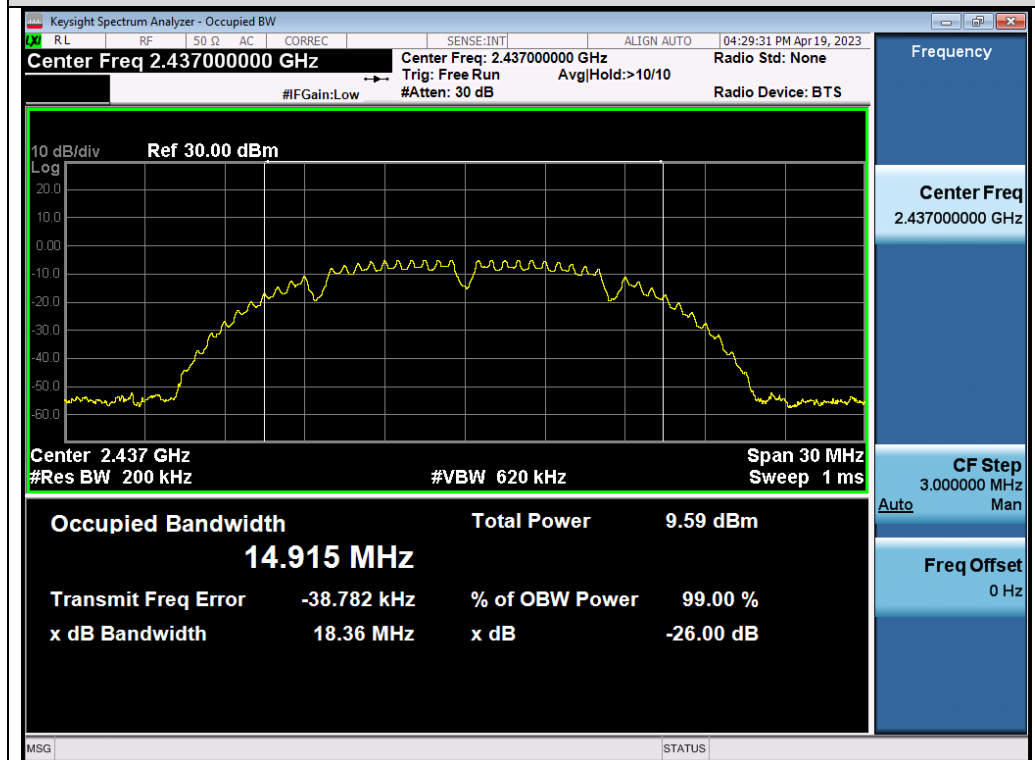
Test Data of Occupied Bandwidth and DTS Bandwidth-ANT 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11b	2412	14.933	10.119	≥0.5	Pass
	2437	14.926	11.072	≥0.5	Pass
	2462	14.938	10.113	≥0.5	Pass
802.11g	2412	16.668	16.338	≥0.5	Pass
	2437	16.663	16.343	≥0.5	Pass
	2462	16.673	16.341	≥0.5	Pass
802.11n20	2412	17.758	17.576	≥0.5	Pass
	2437	17.765	17.570	≥0.5	Pass
	2462	17.762	17.564	≥0.5	Pass
802.11n40	2422	36.519	36.459	≥0.5	Pass
	2437	36.491	36.453	≥0.5	Pass
	2452	36.526	36.465	≥0.5	Pass
802.11ax20	2412	18.959	18.674	≥0.5	Pass
	2437	18.963	18.657	≥0.5	Pass
	2462	18.959	18.661	≥0.5	Pass
802.11ax40	2422	37.961	38.022	≥0.5	Pass
	2437	37.998	38.031	≥0.5	Pass
	2452	38.002	37.898	≥0.5	Pass

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Test Graphs of Occupied Bandwidth

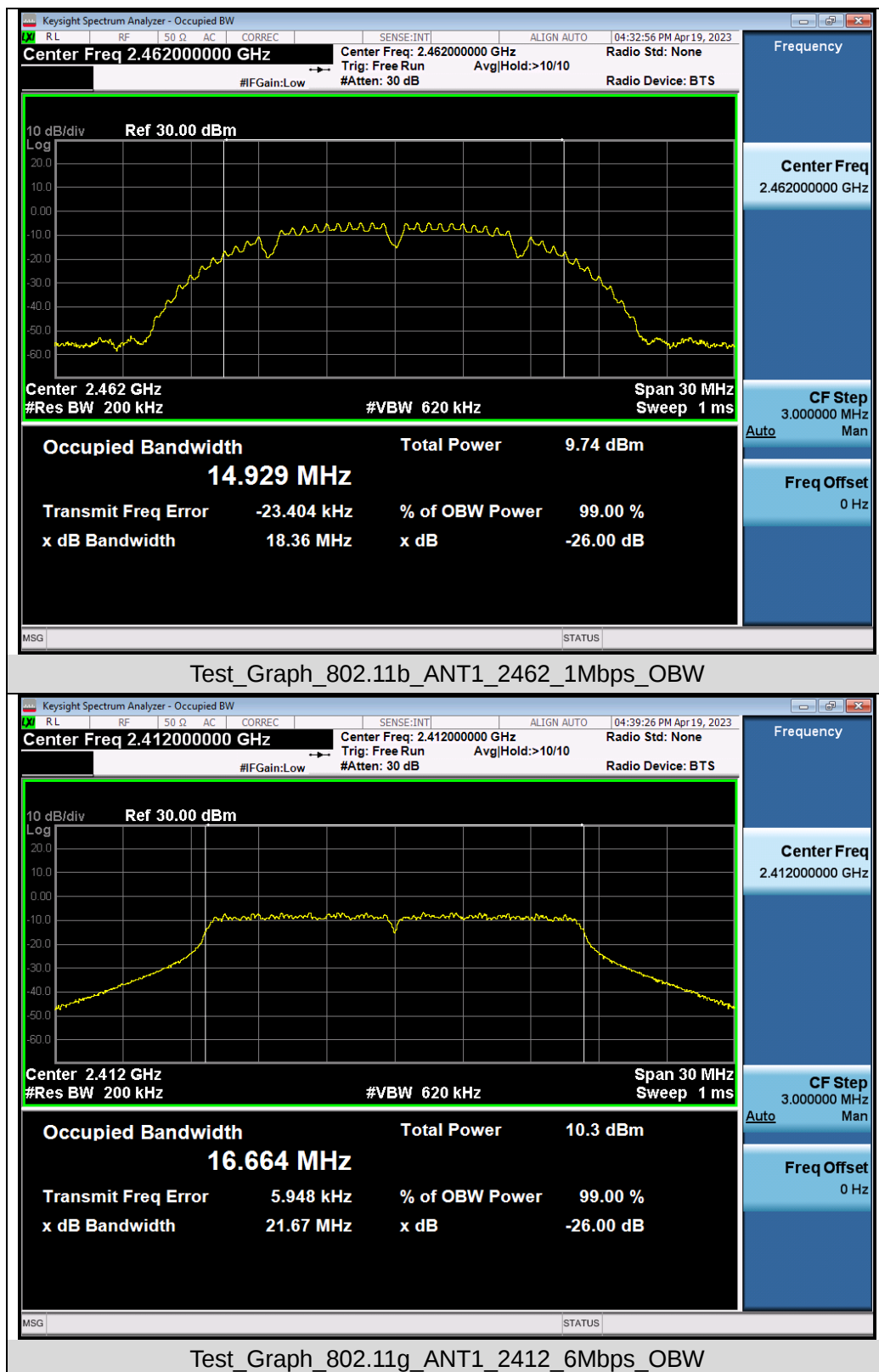


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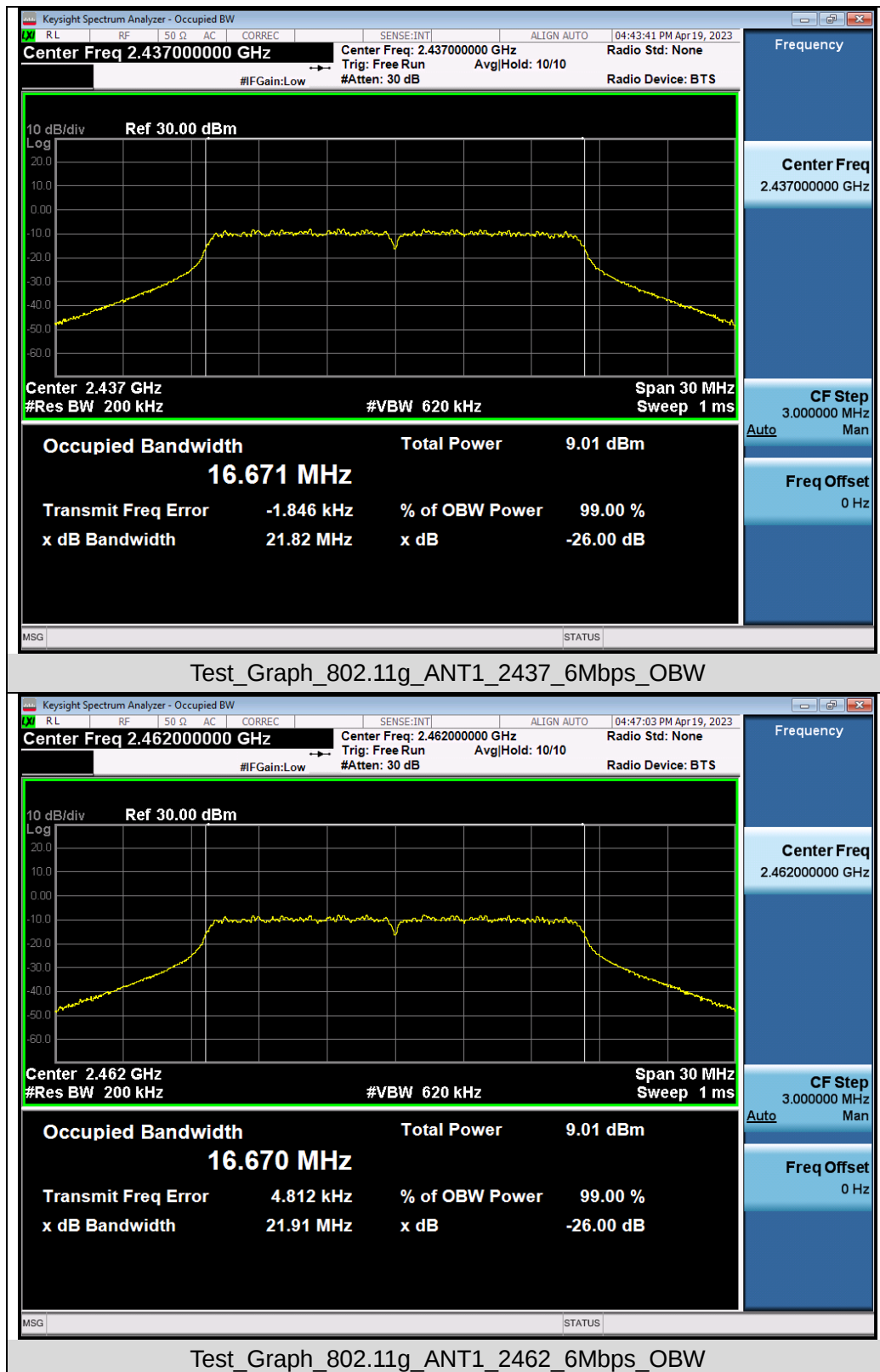


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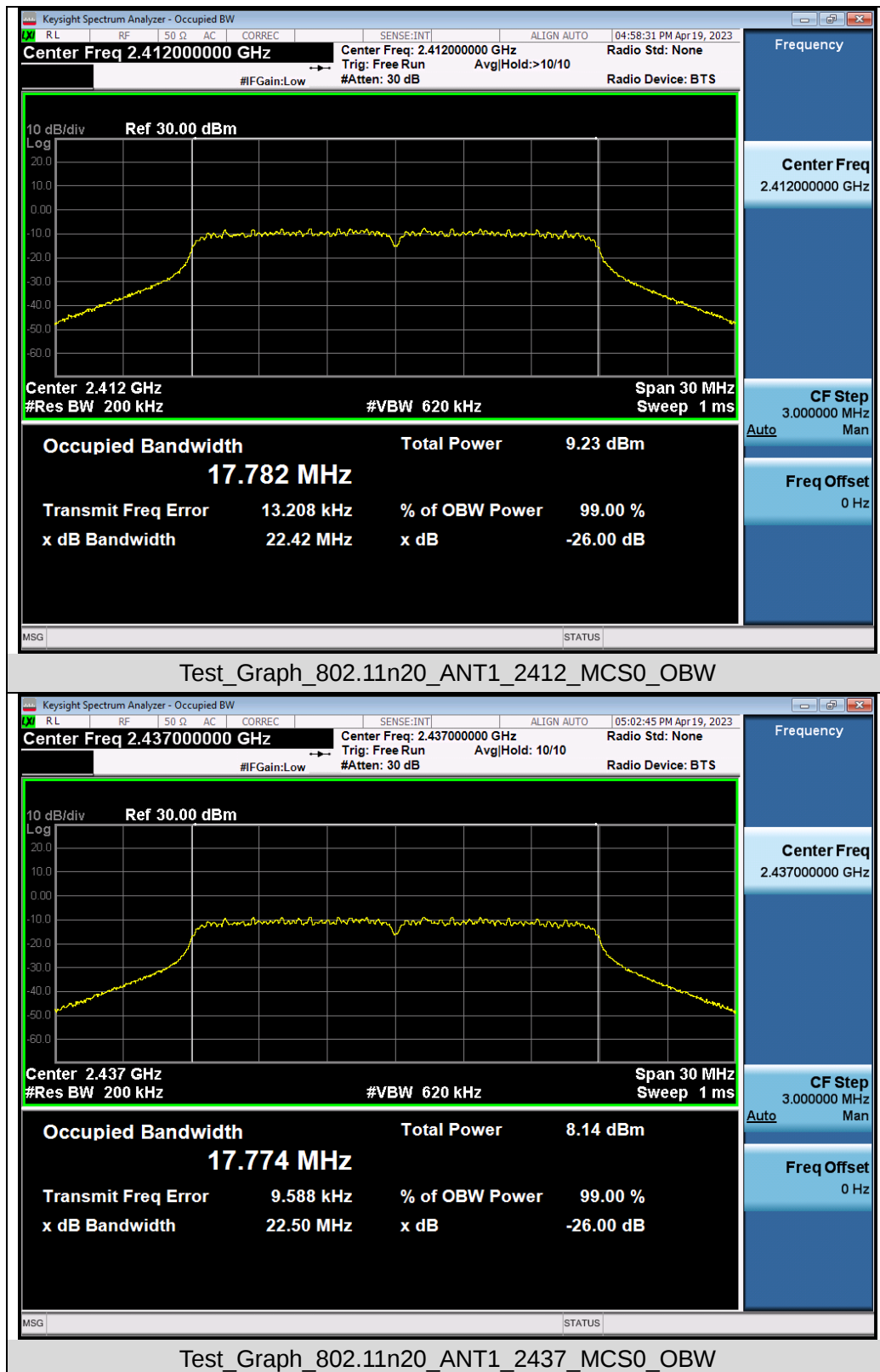
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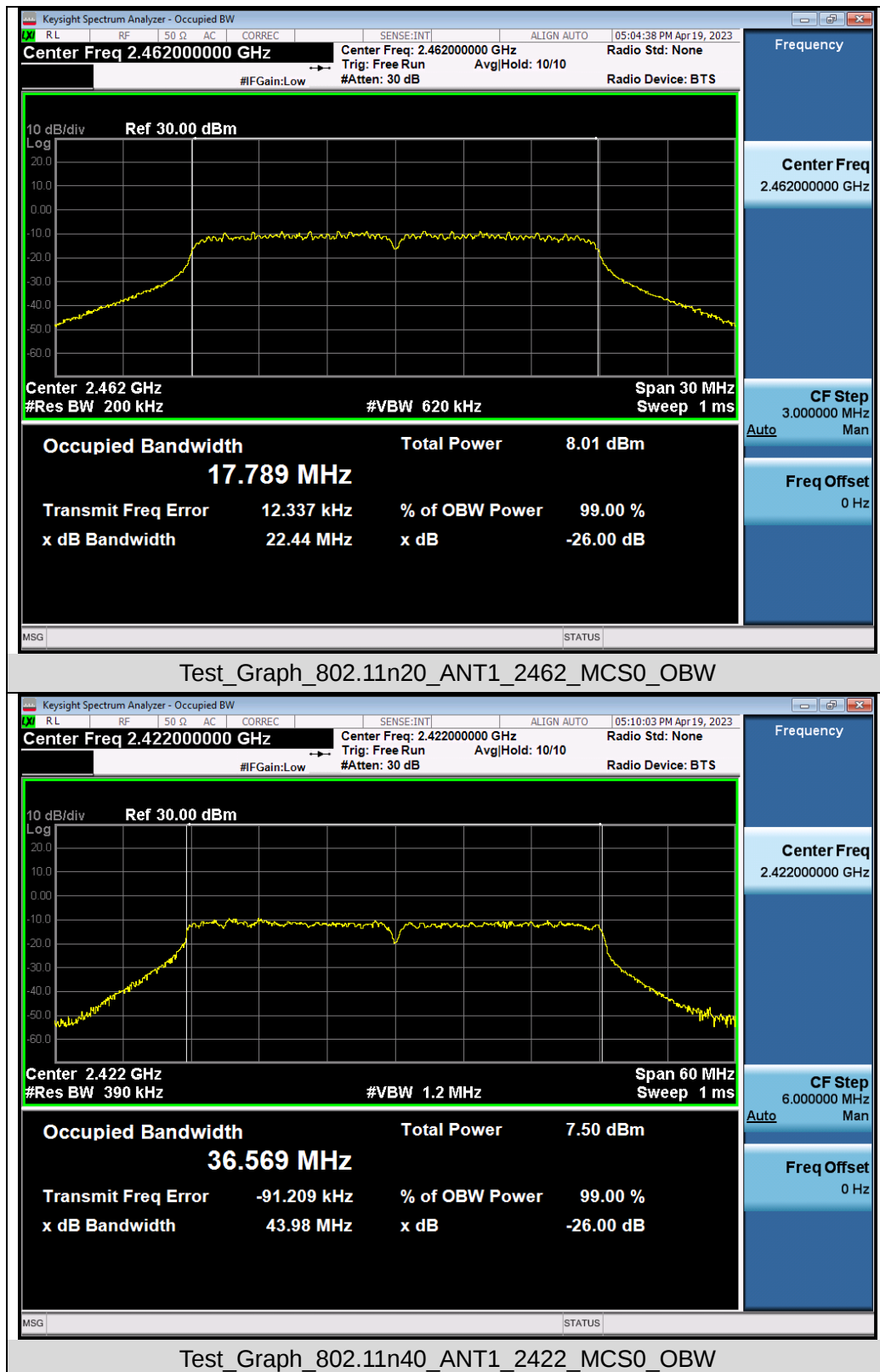
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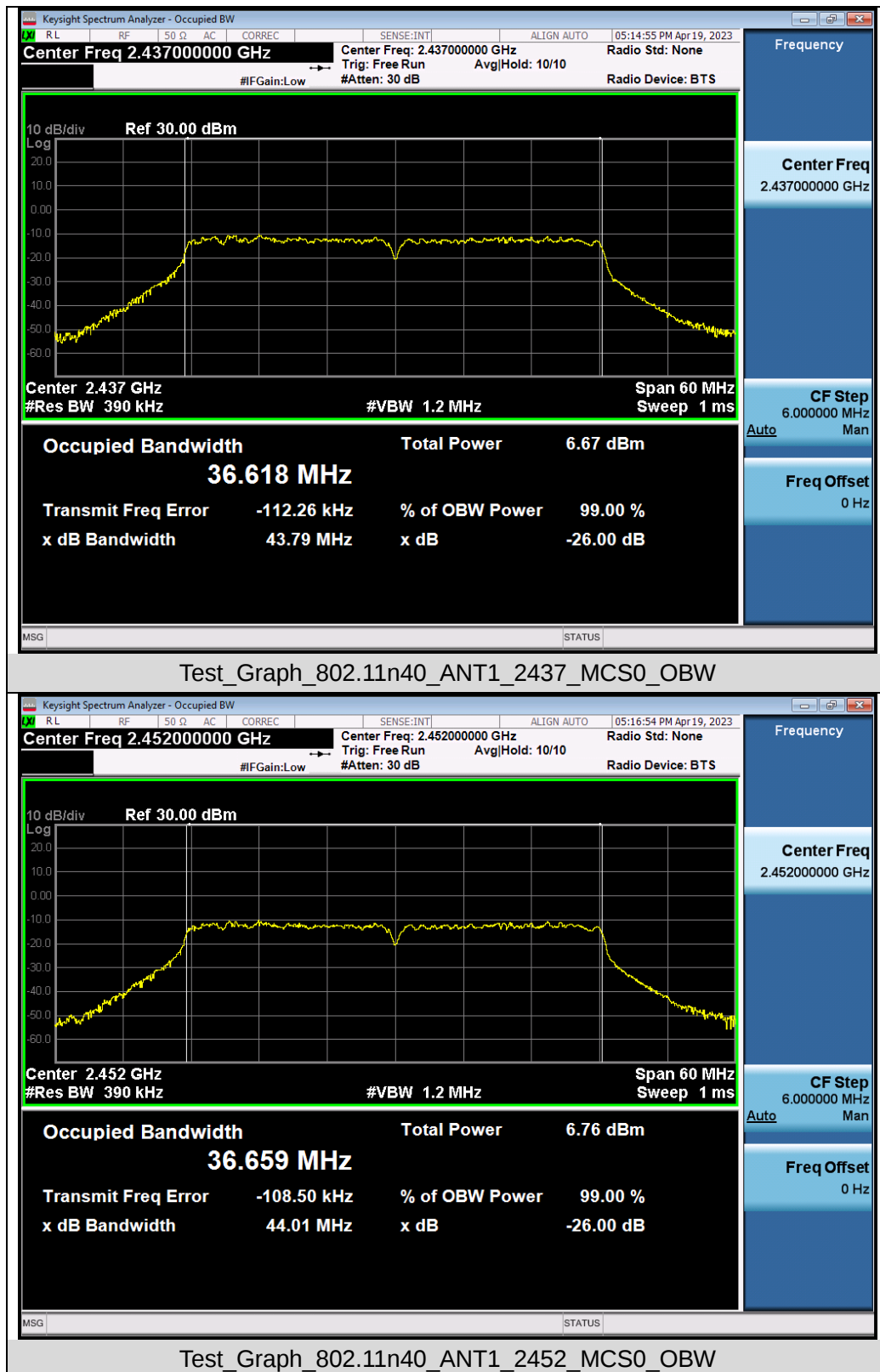
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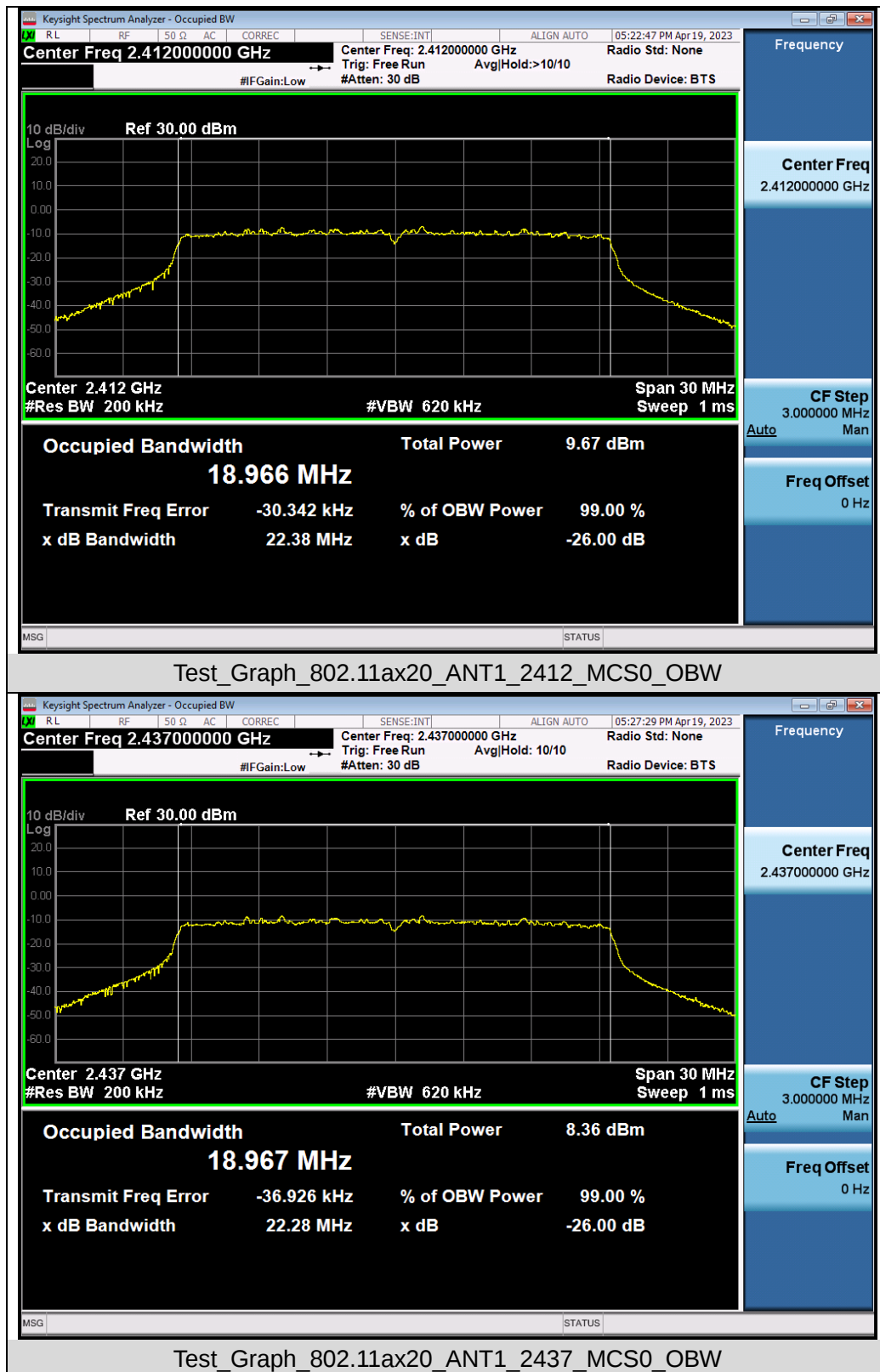
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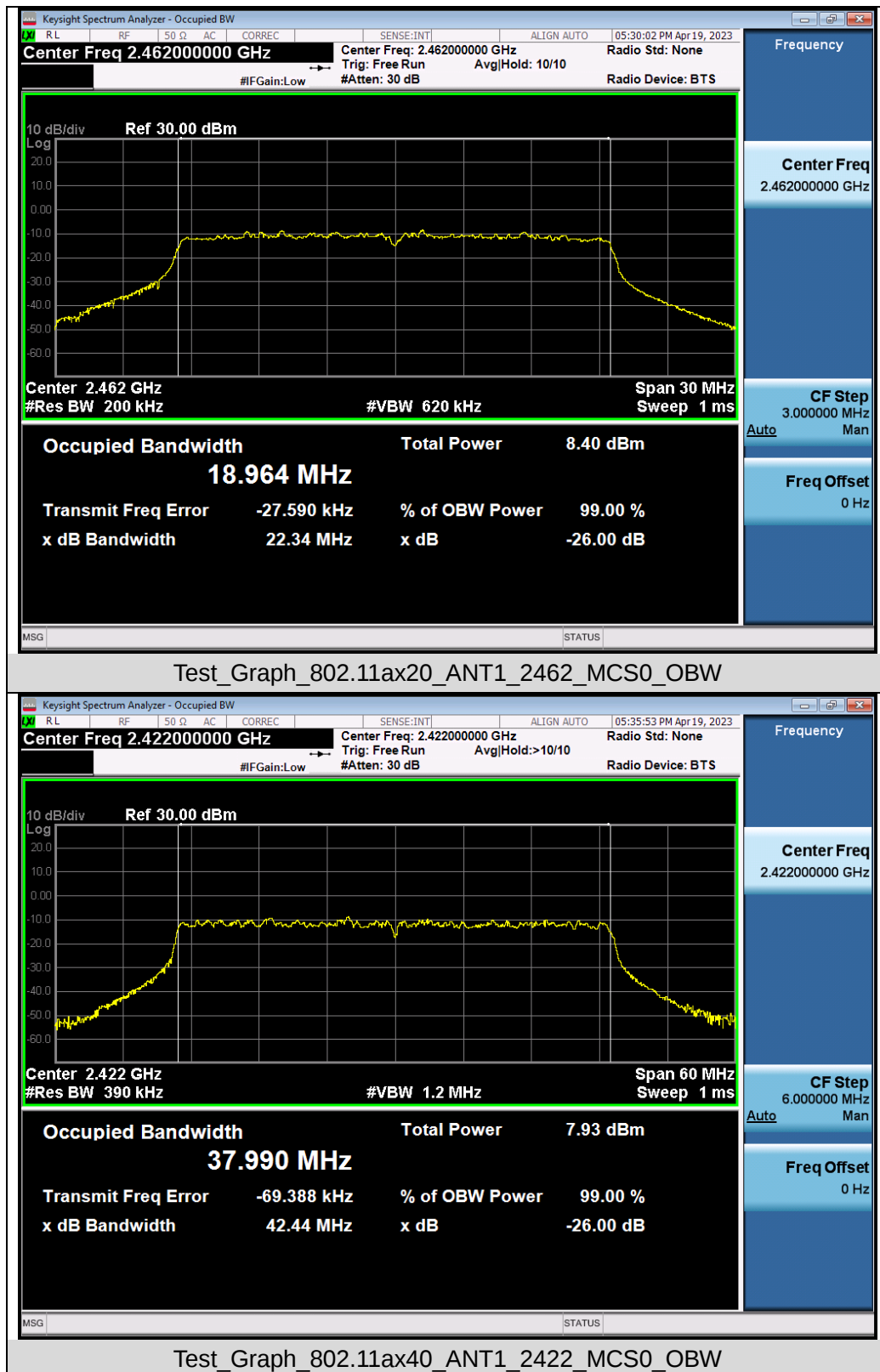
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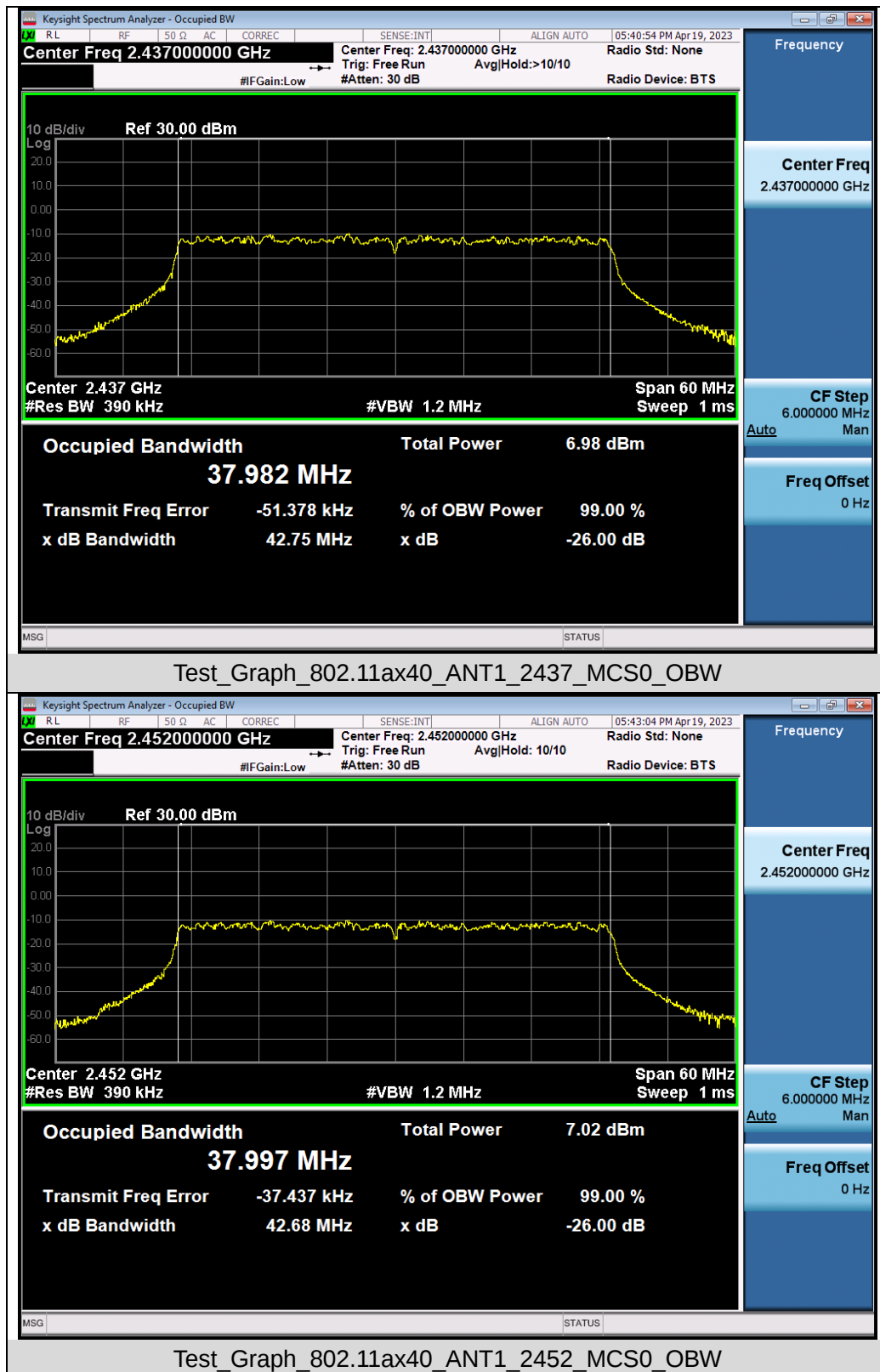
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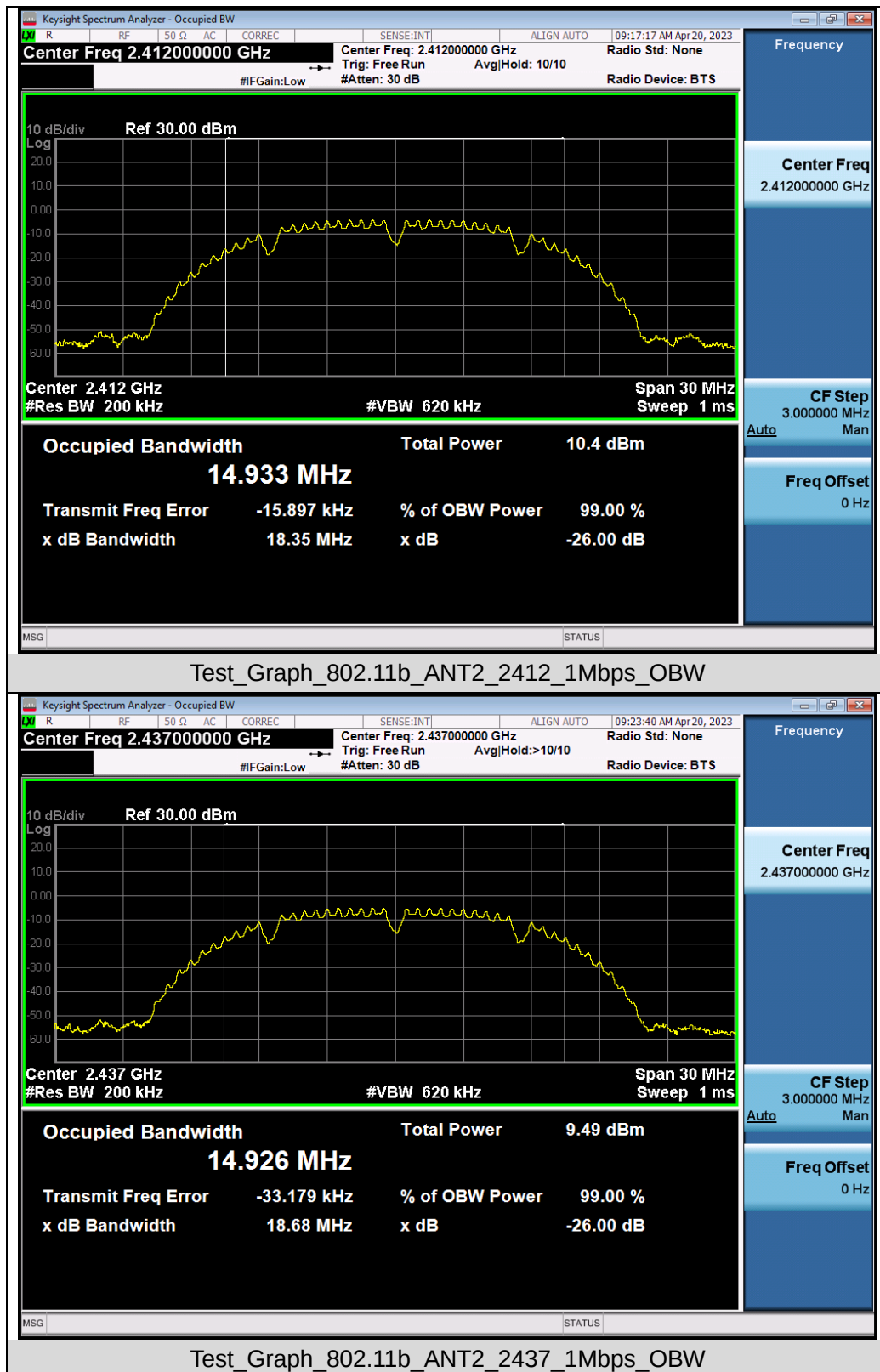


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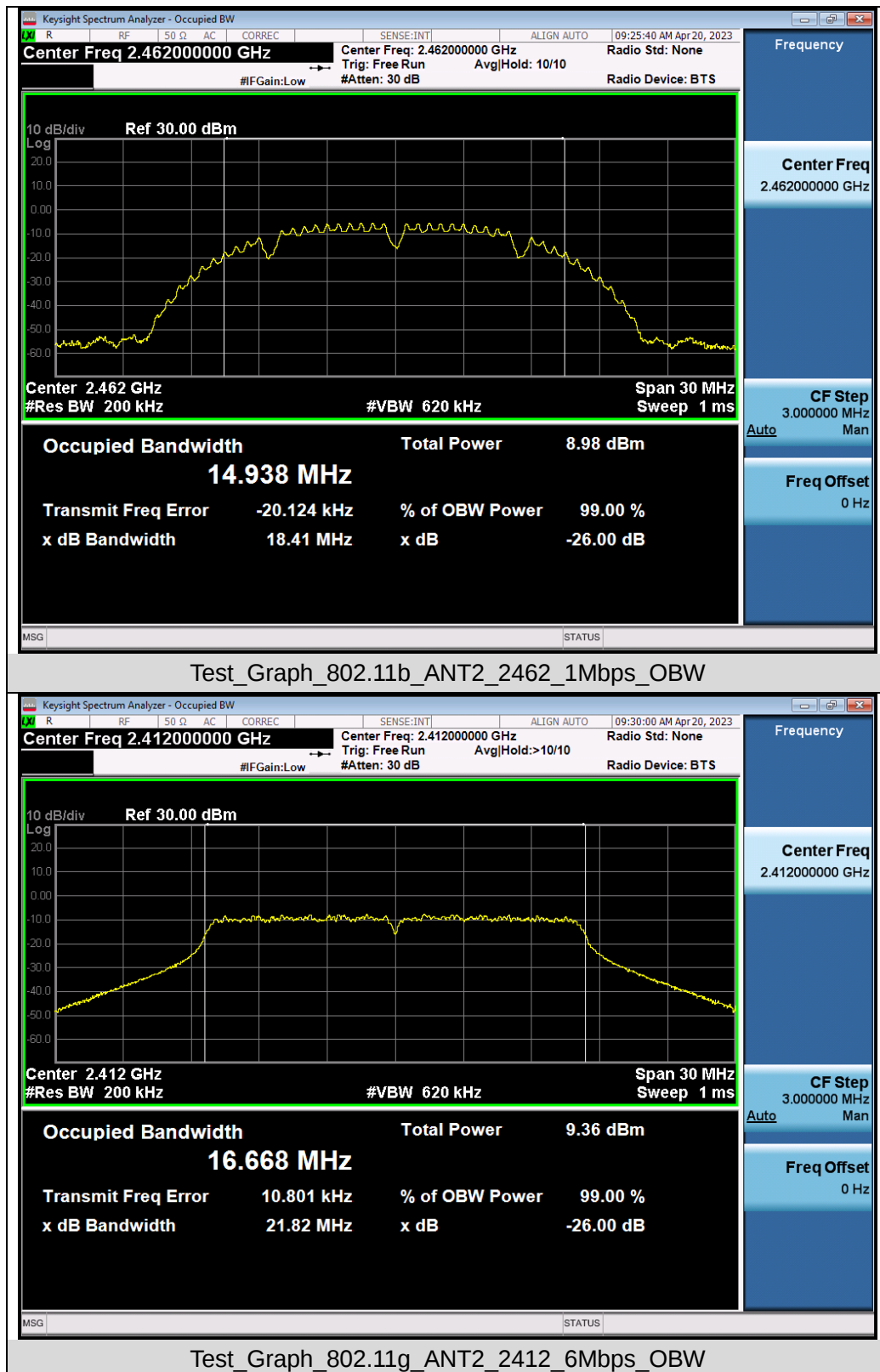


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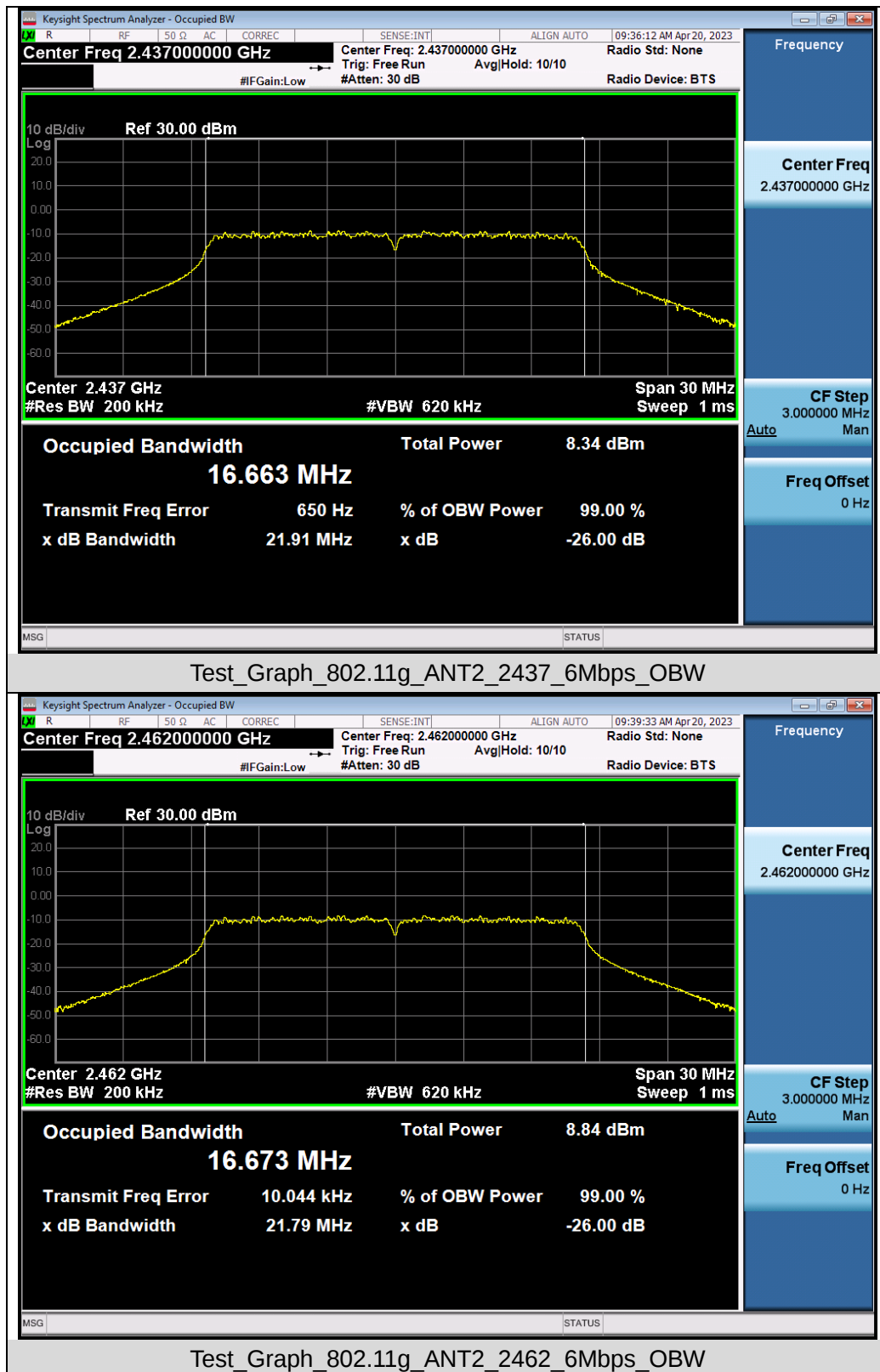
Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



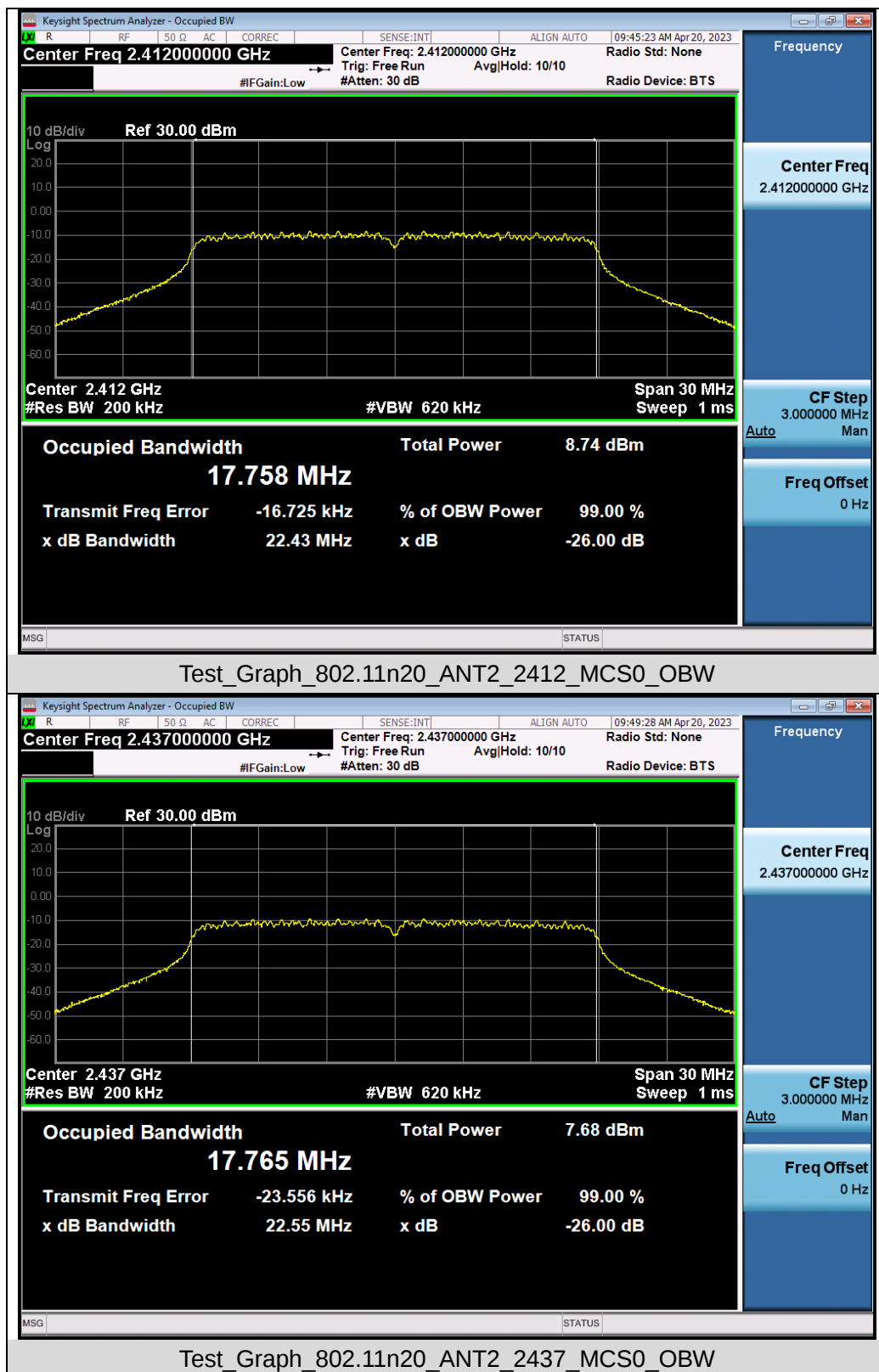
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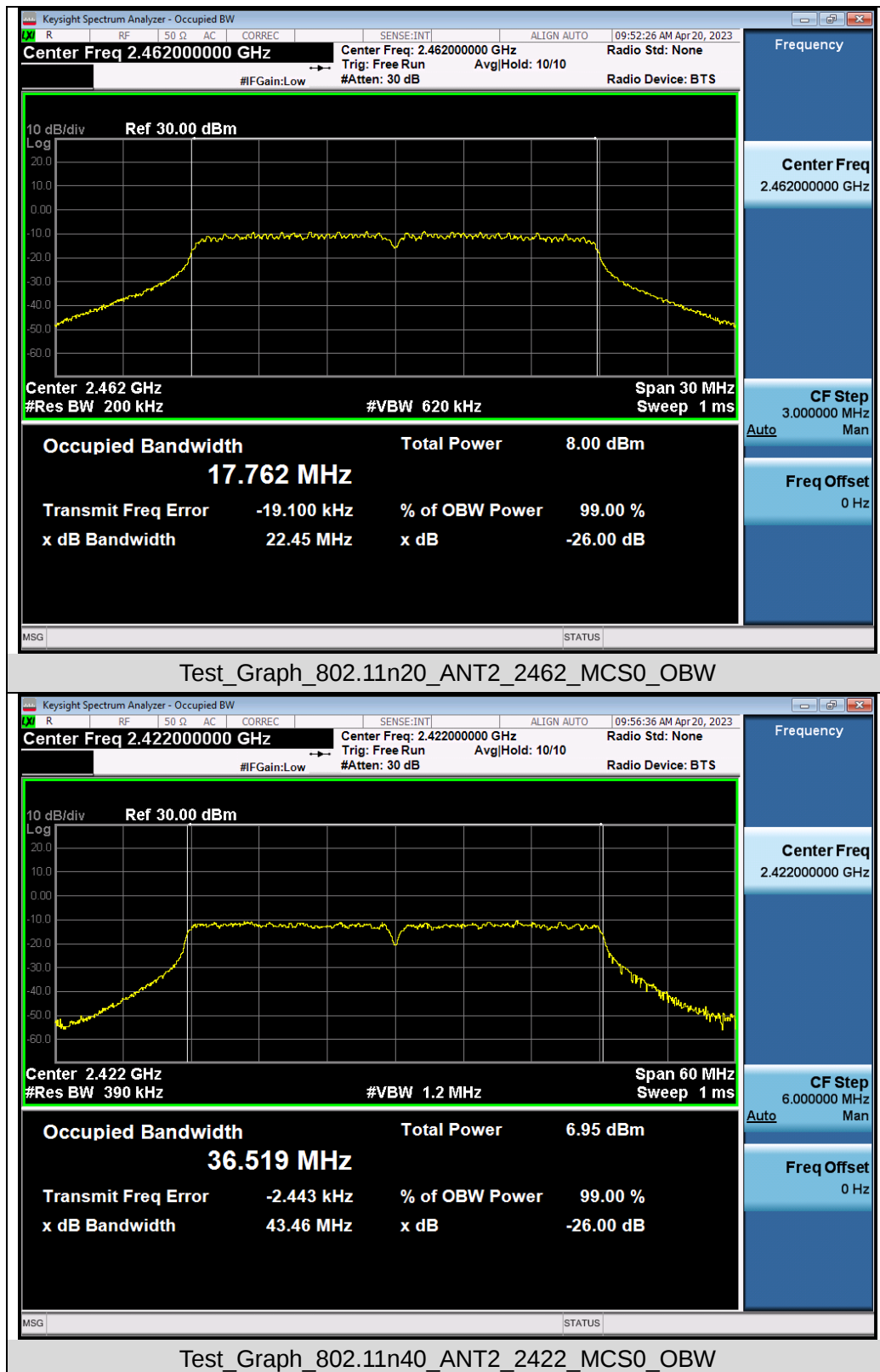


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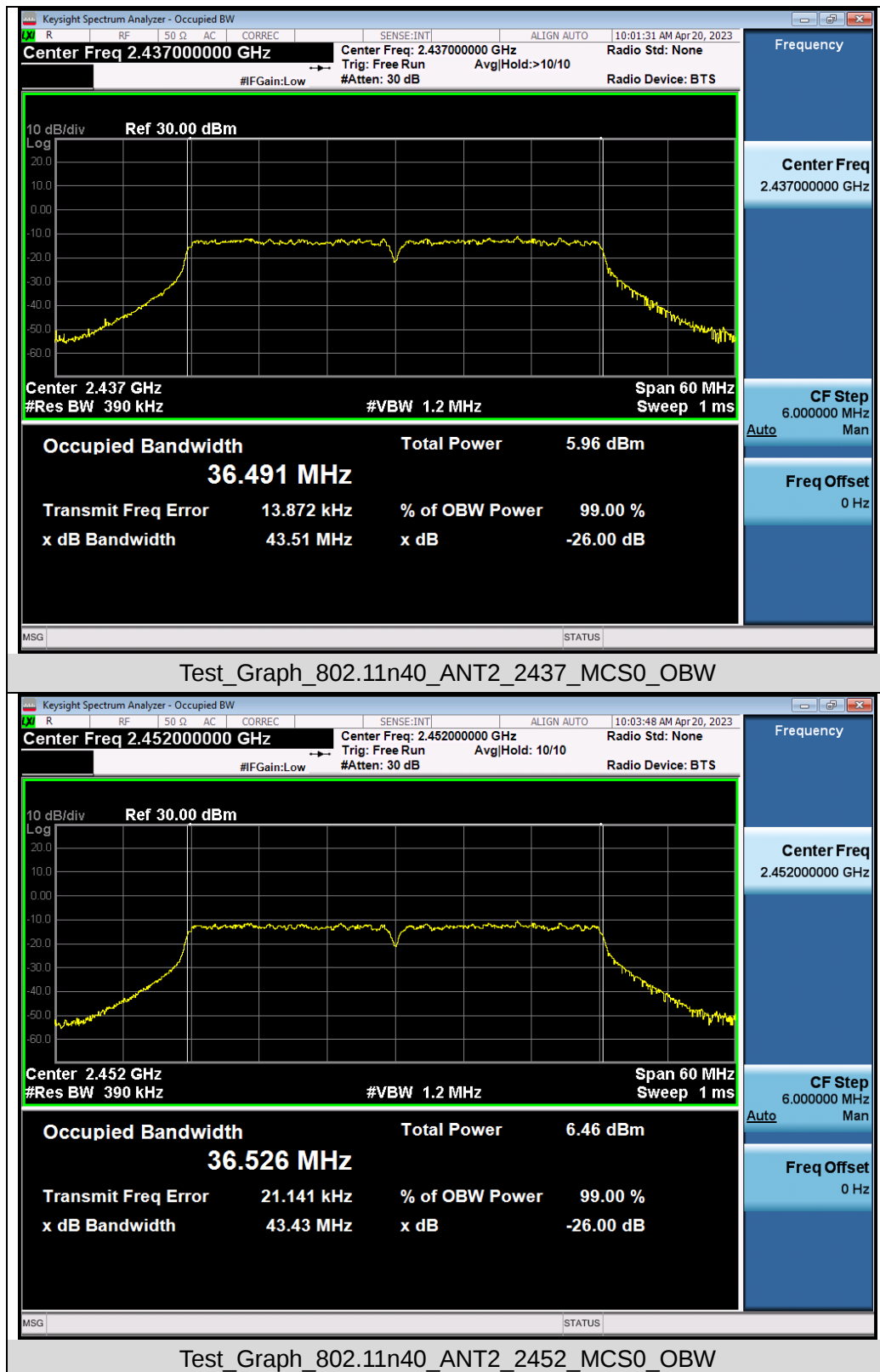


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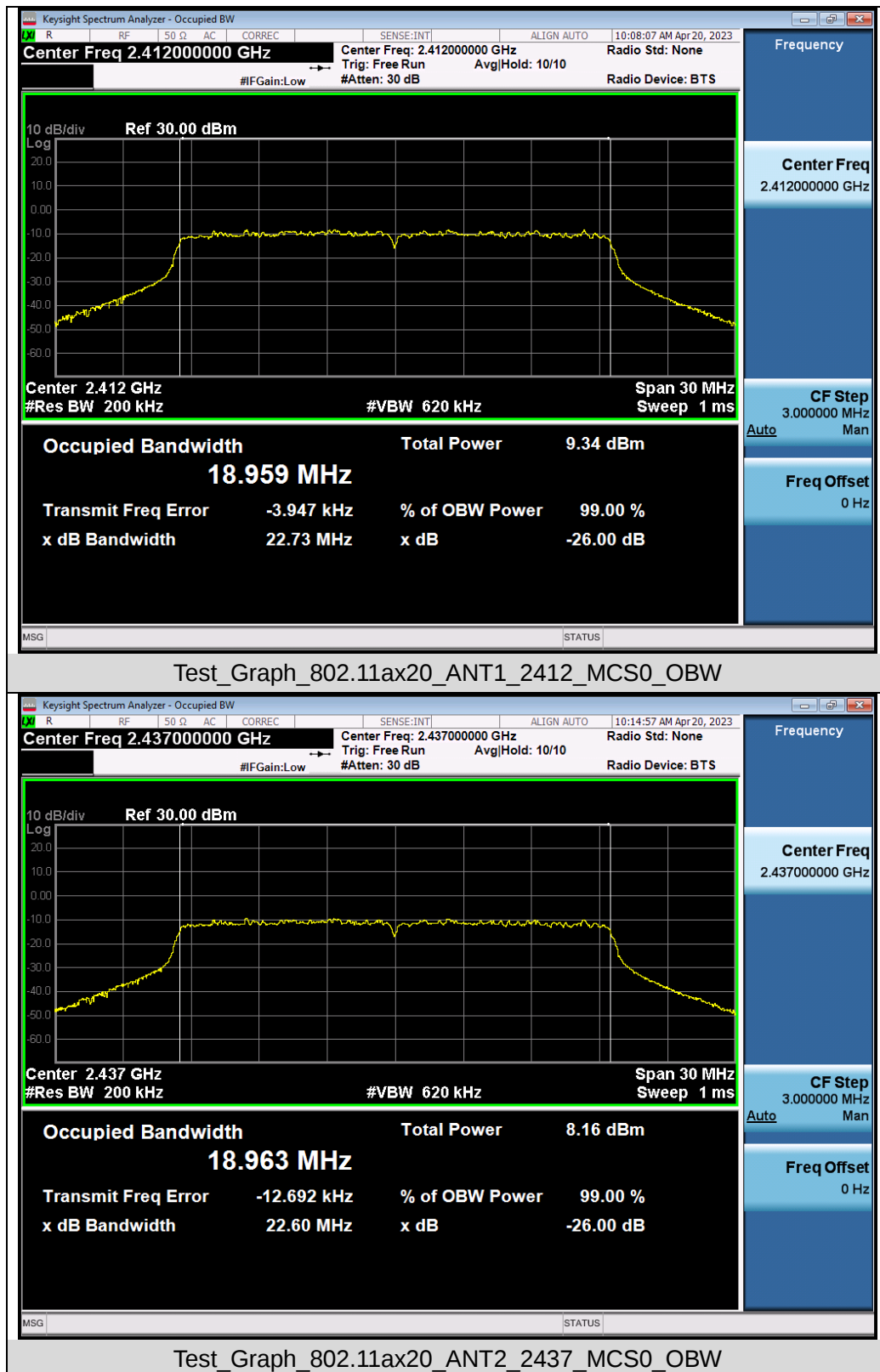
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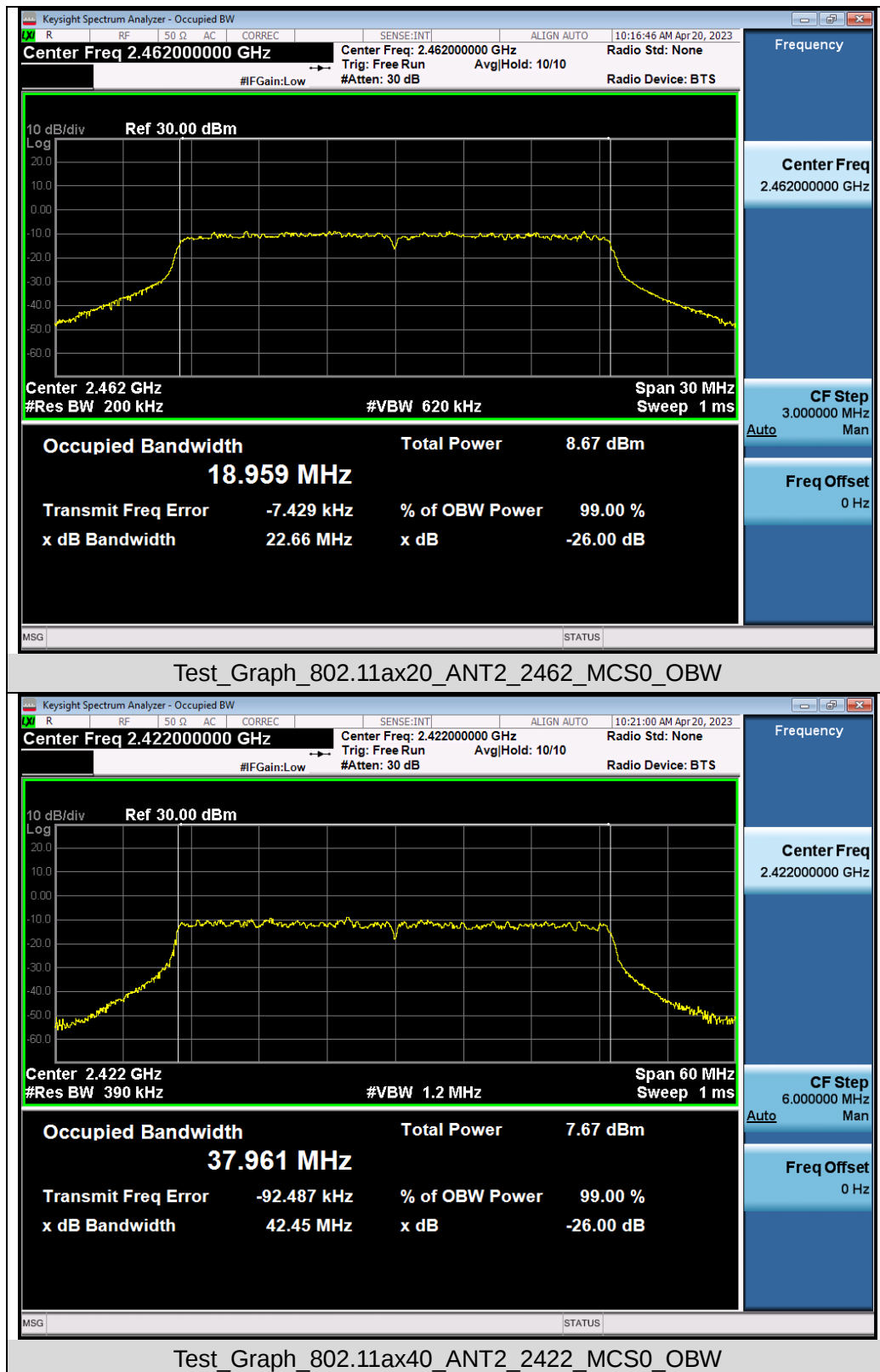
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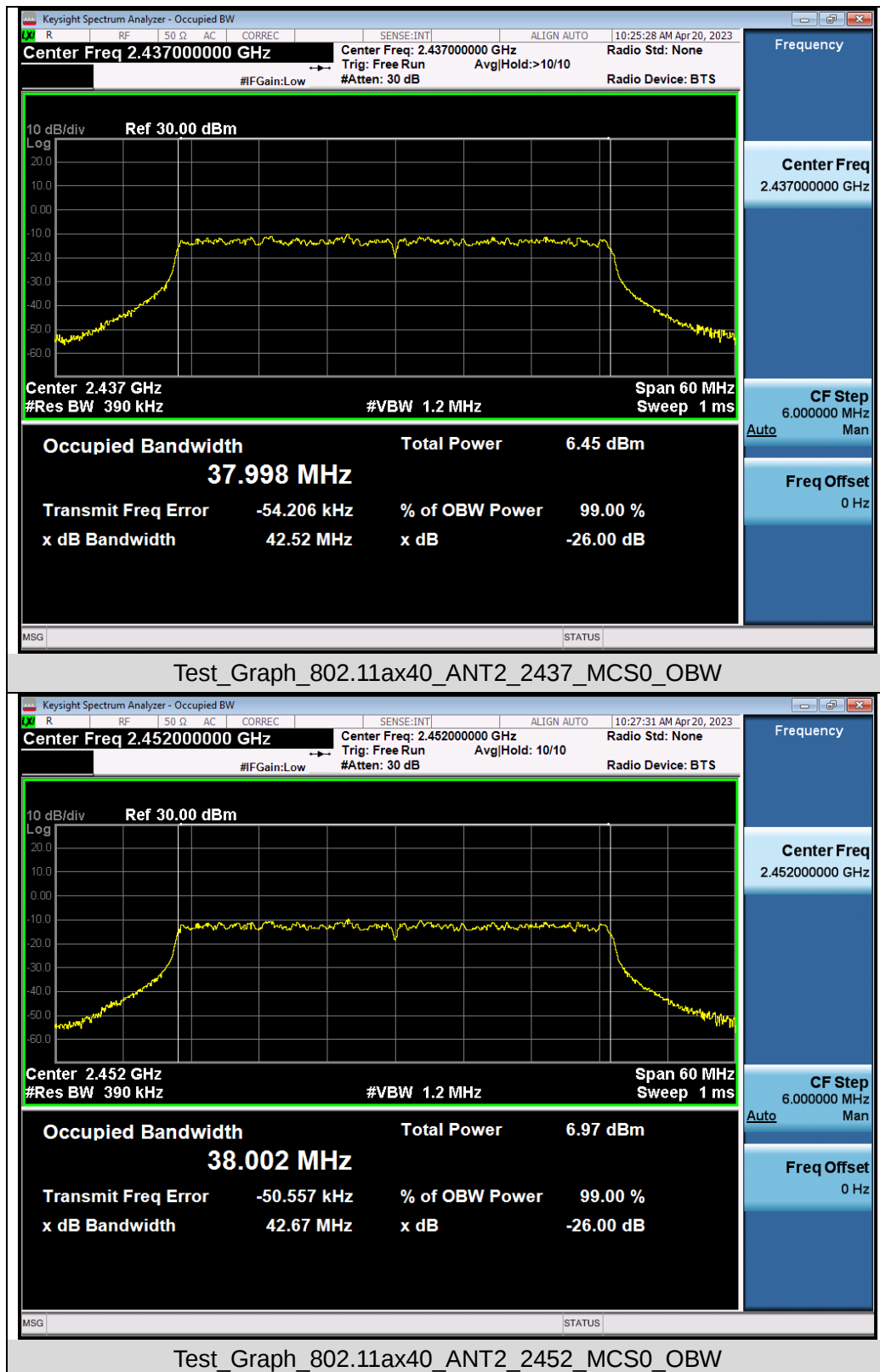
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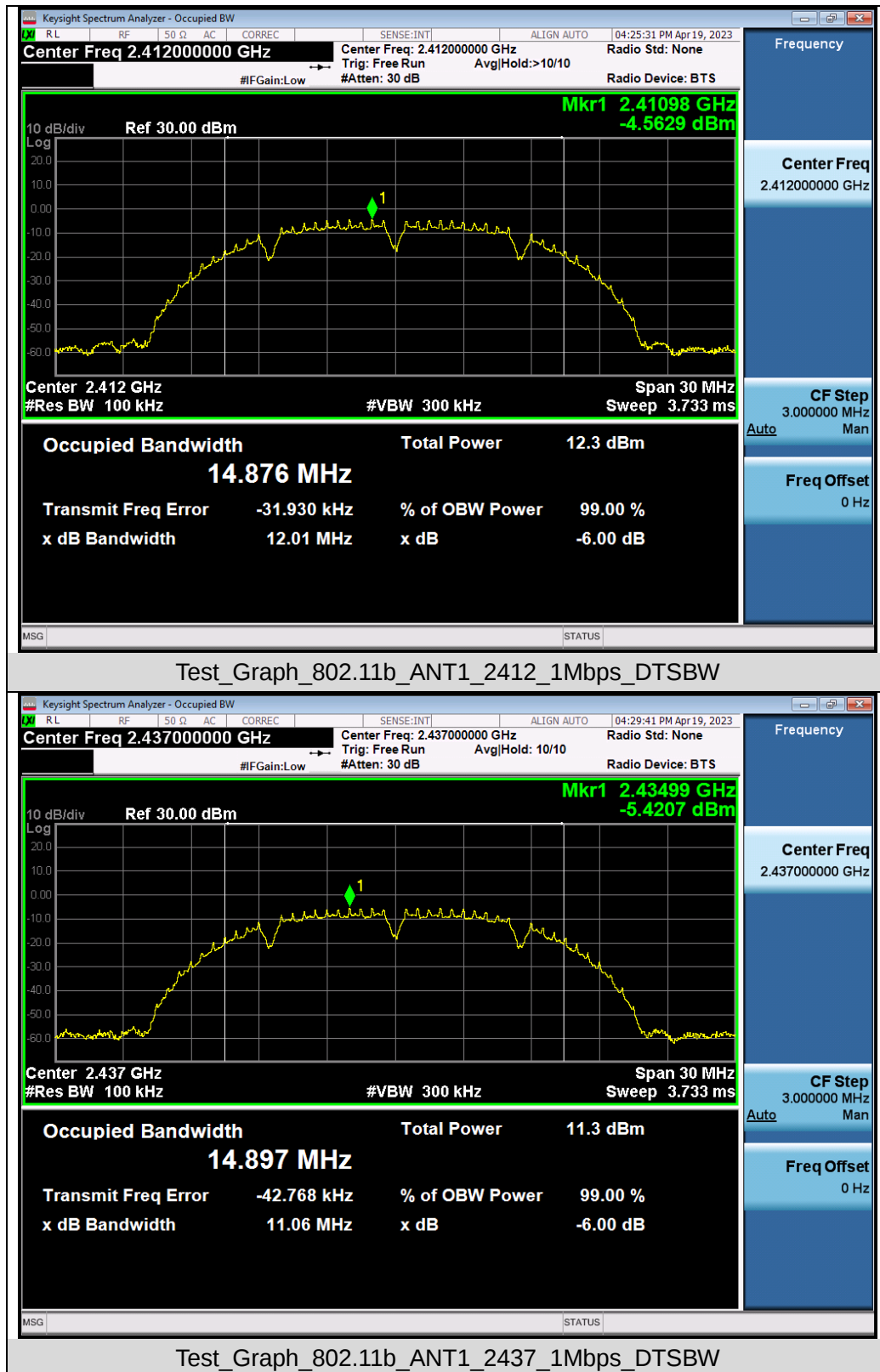


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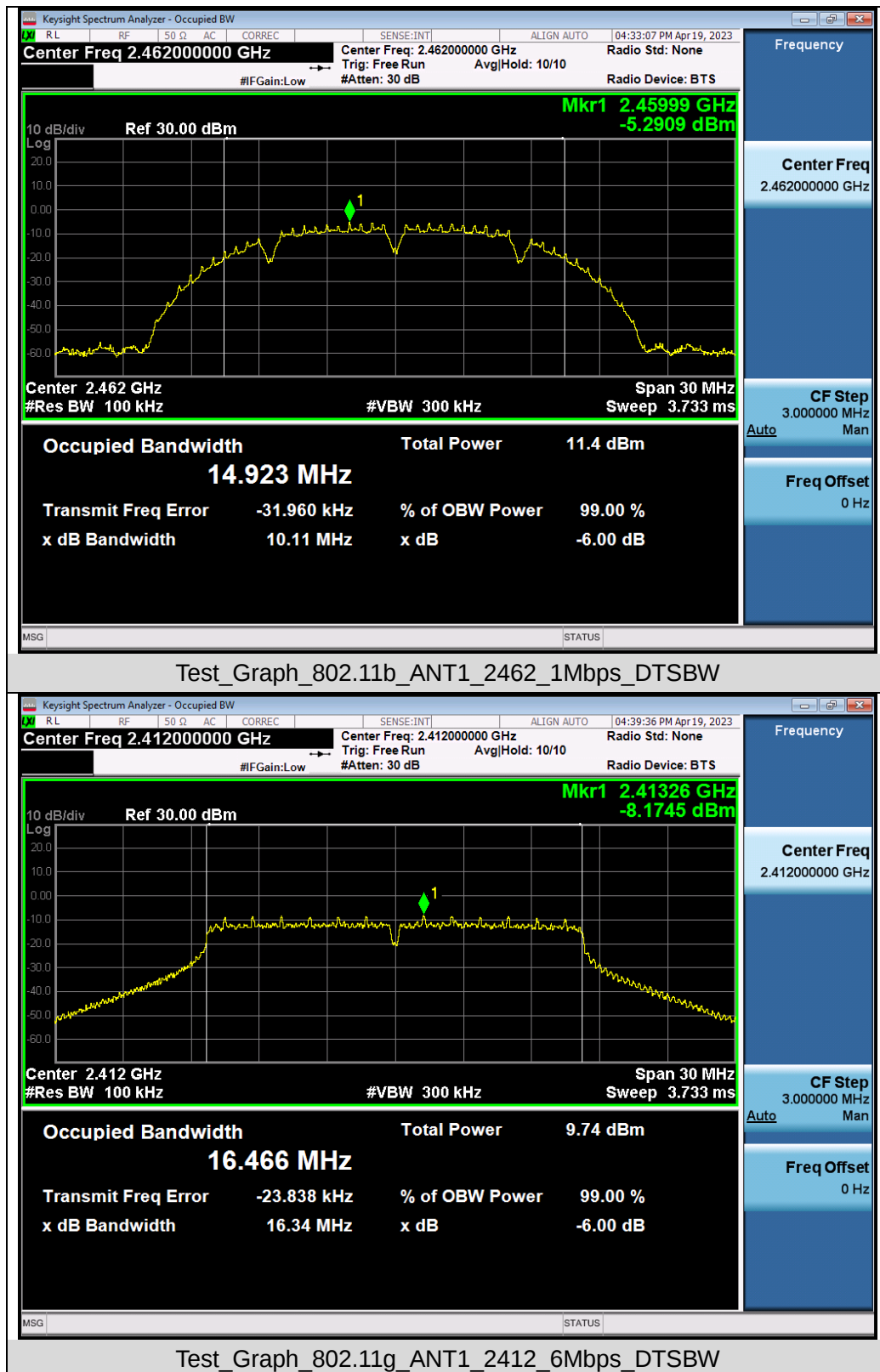


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Test Graphs of DTS Bandwidth

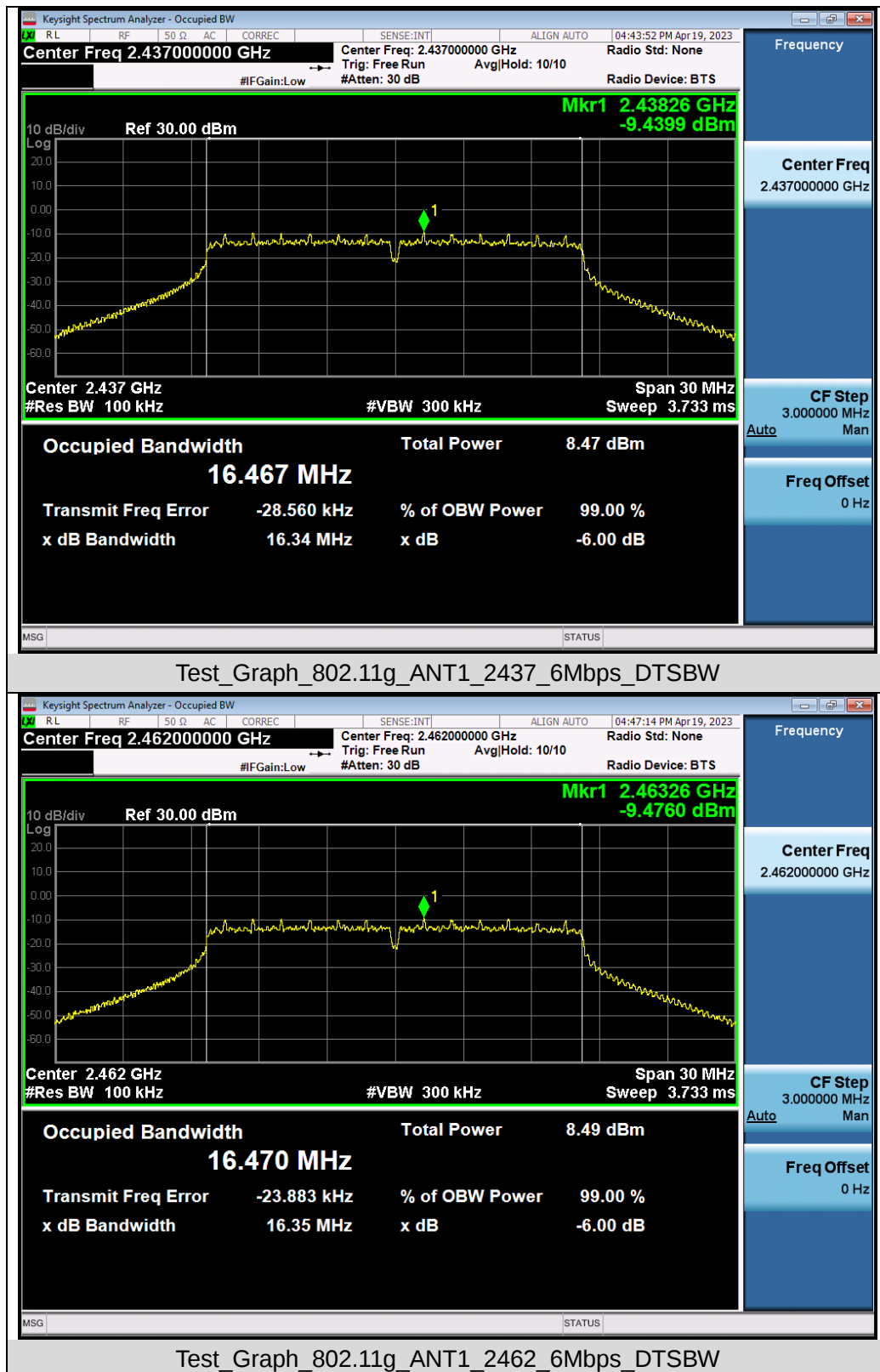


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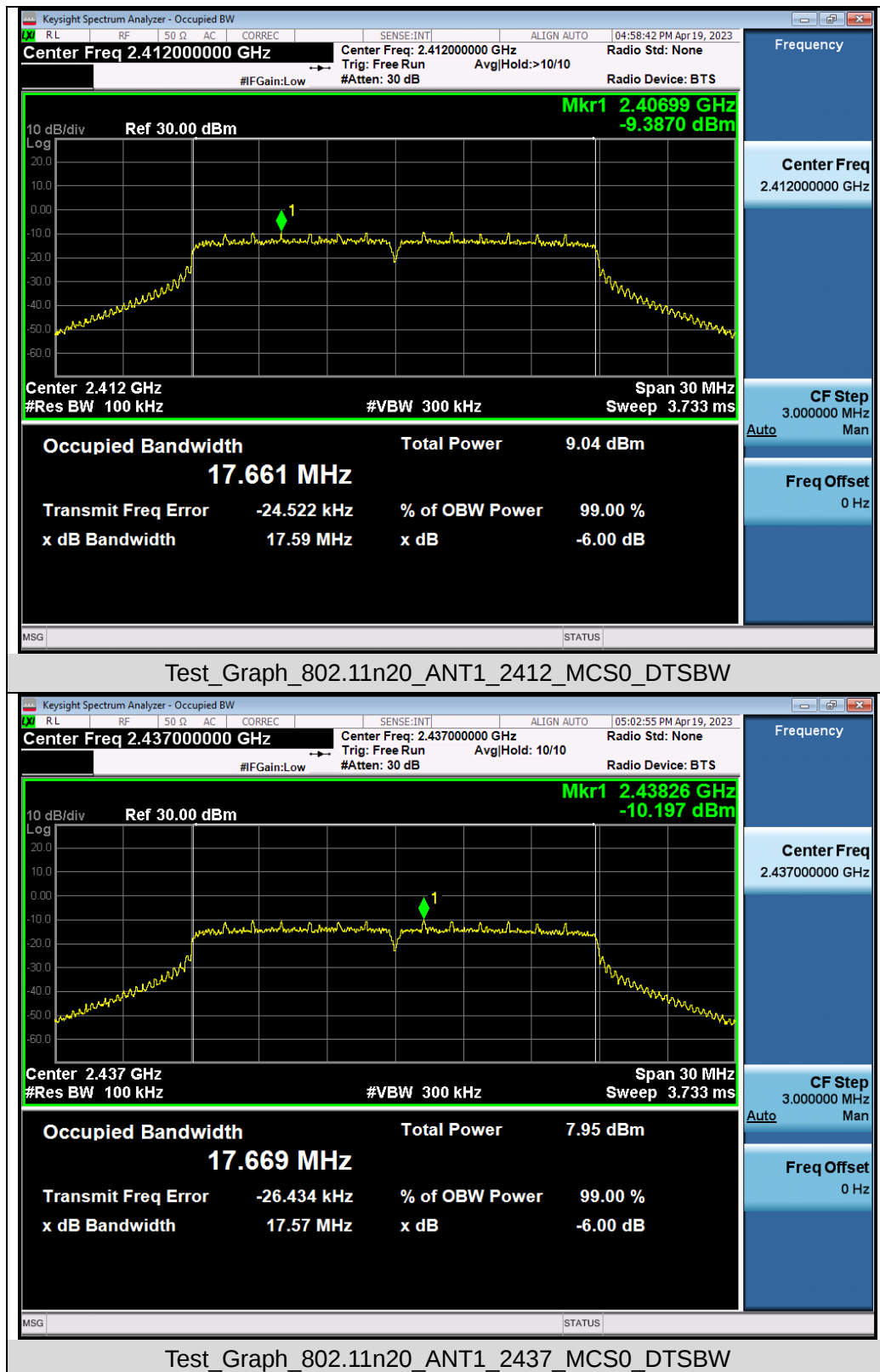


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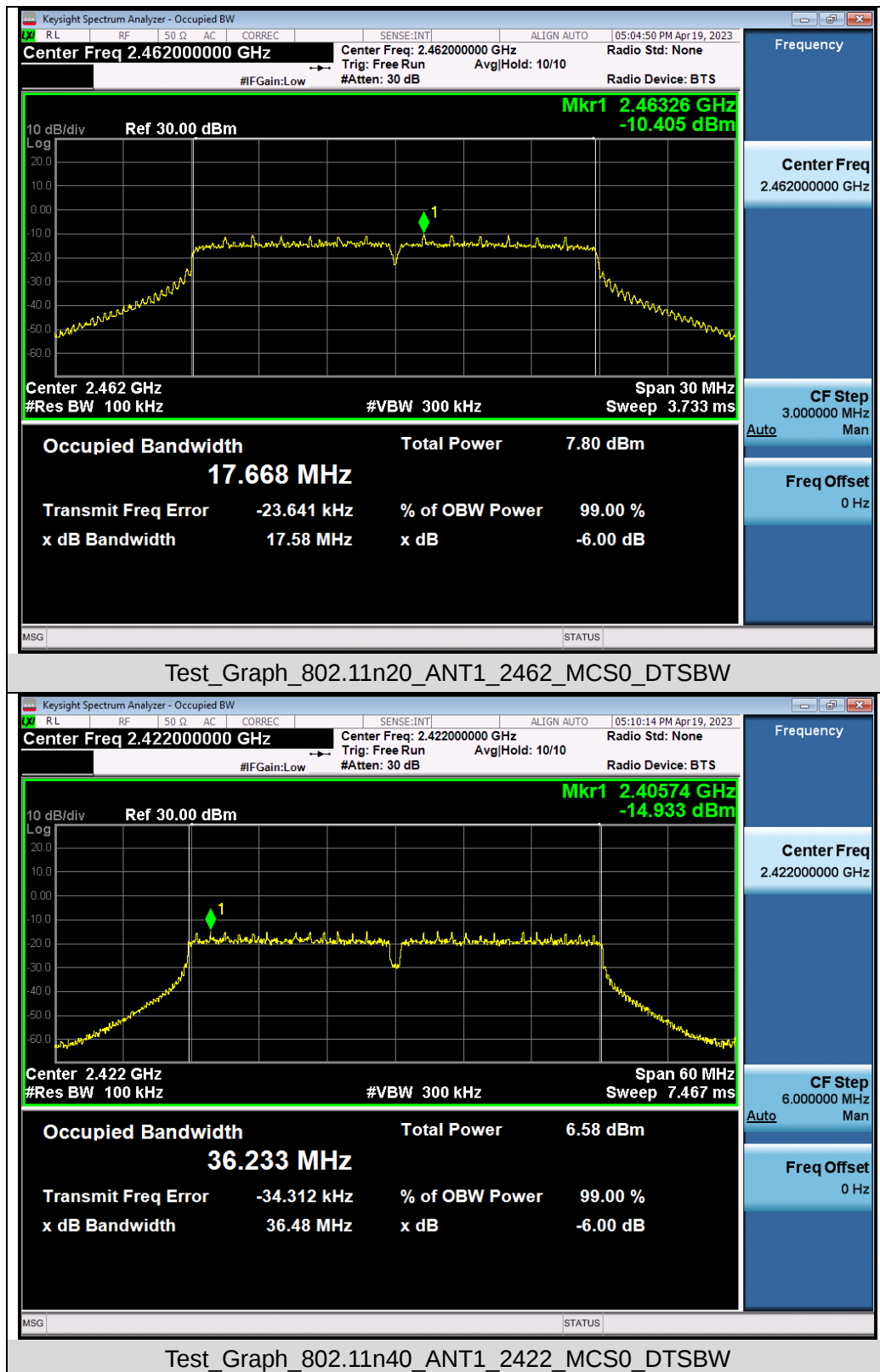
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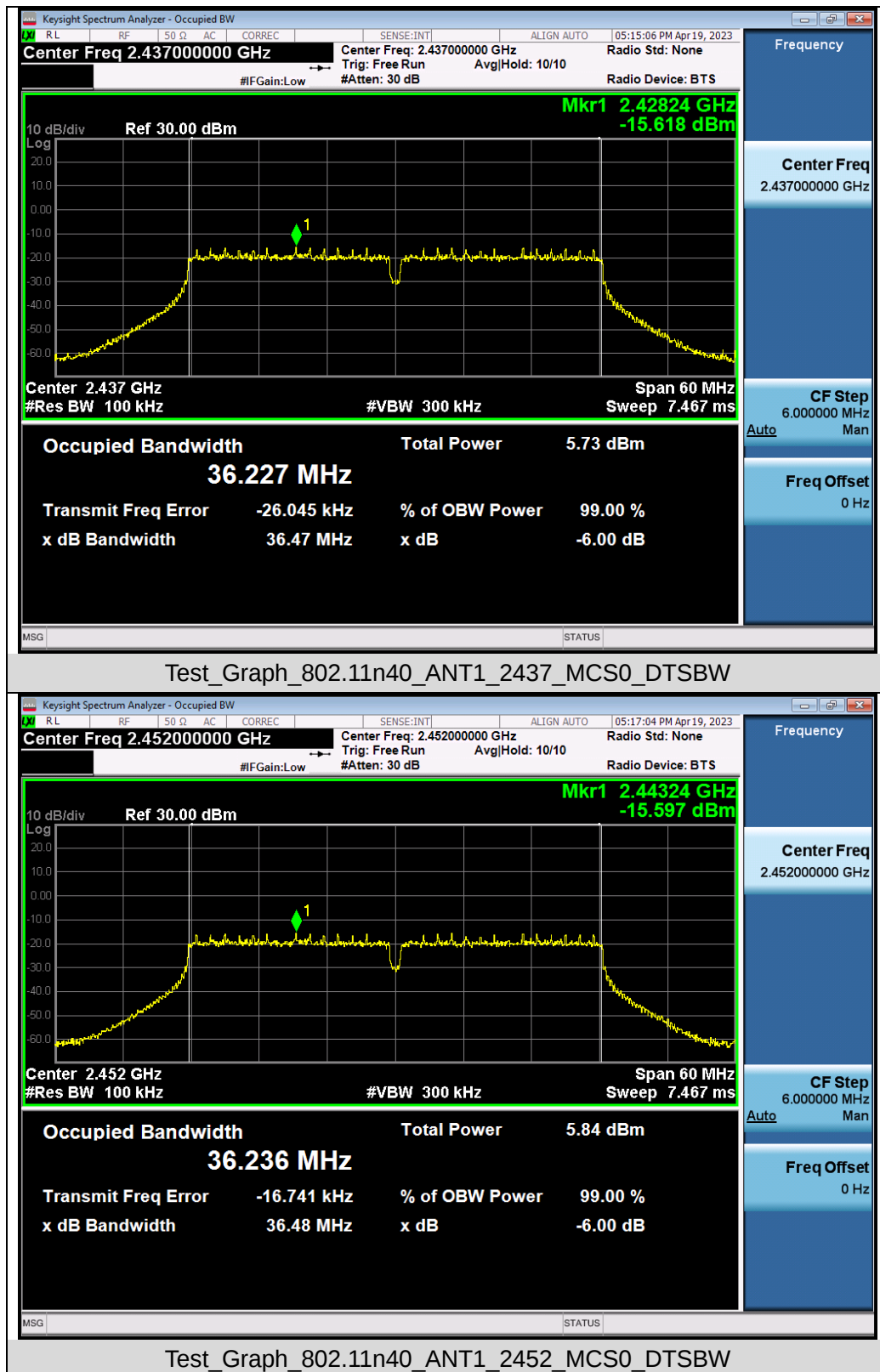
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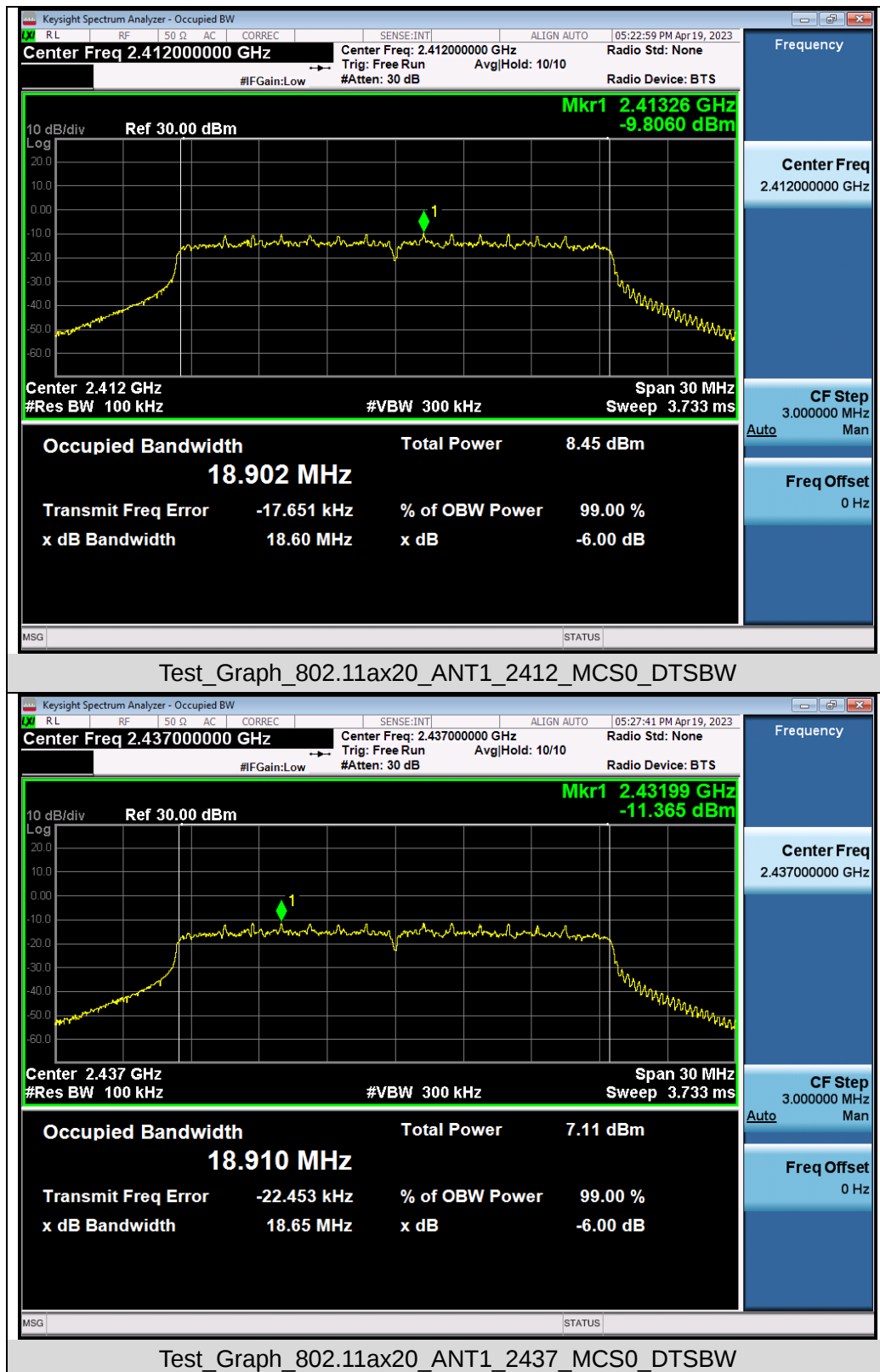
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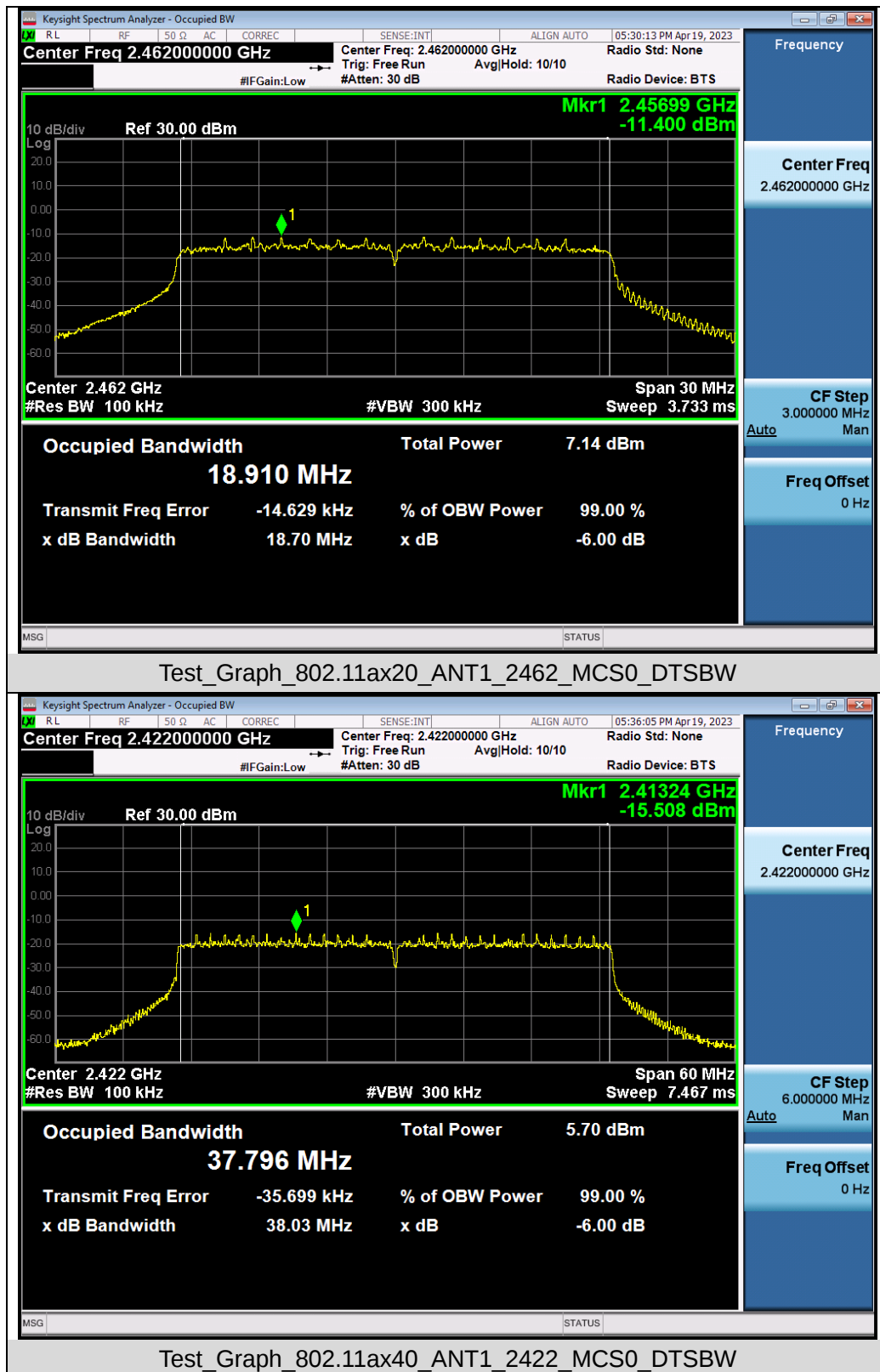
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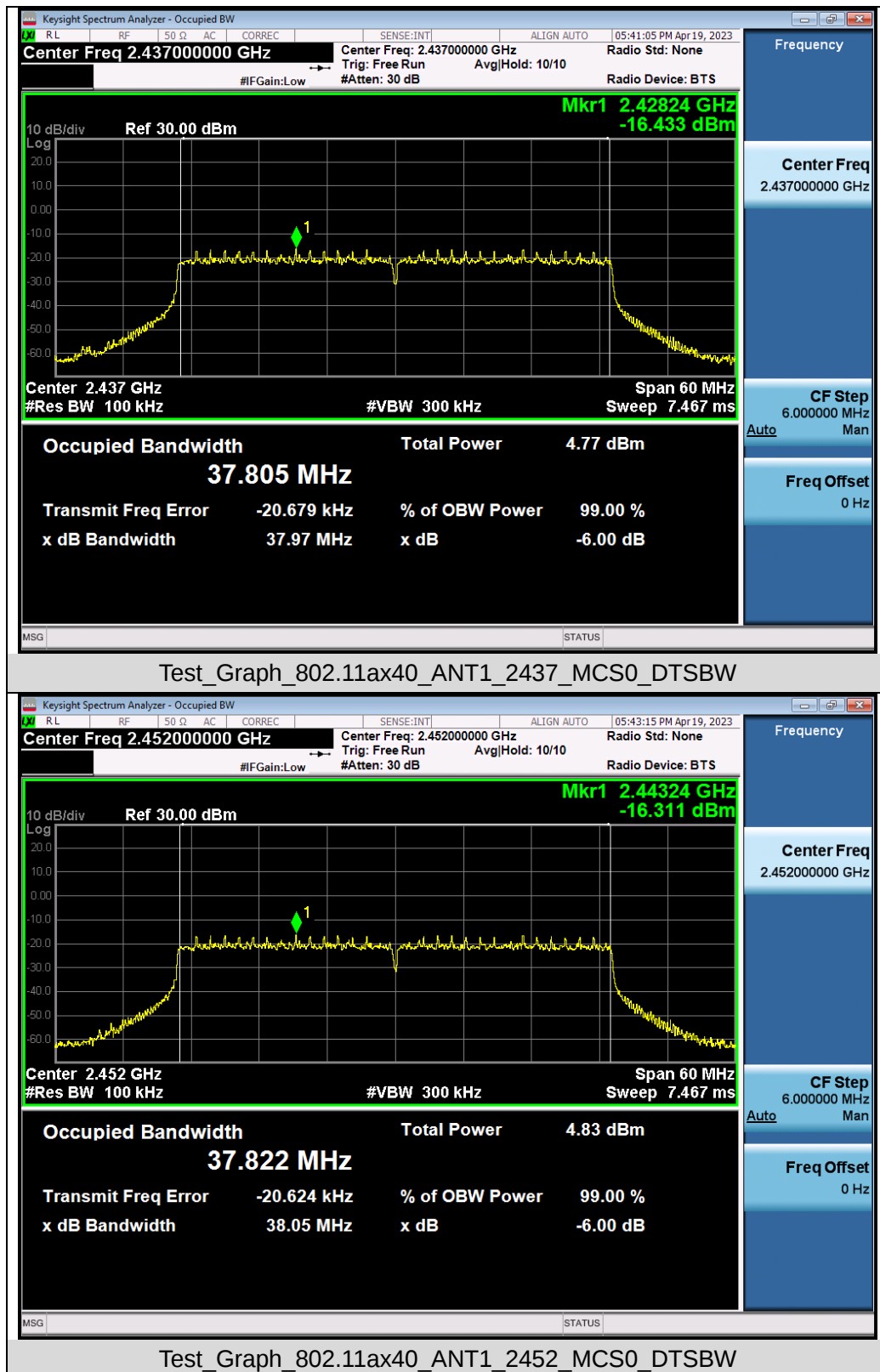
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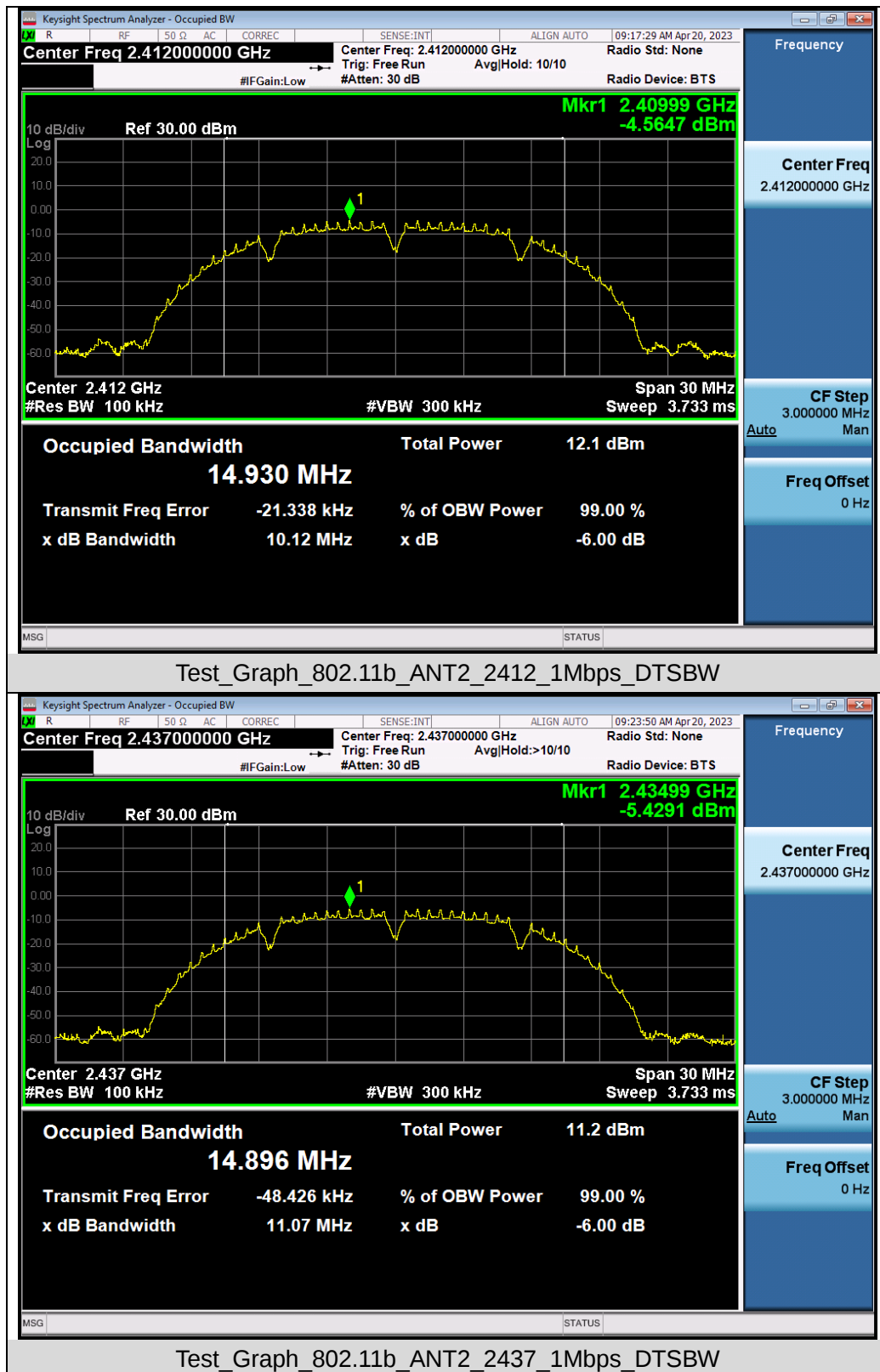
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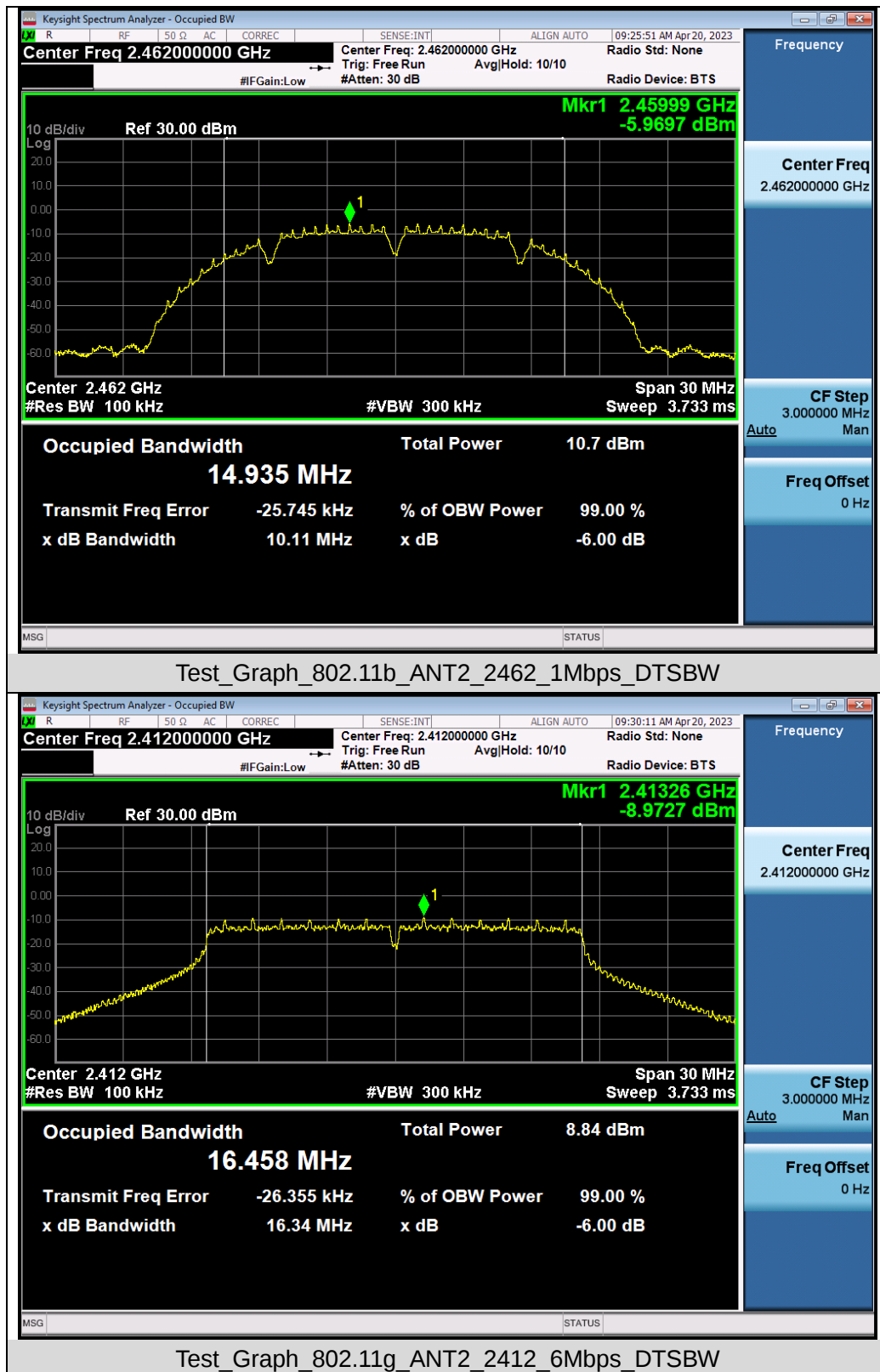
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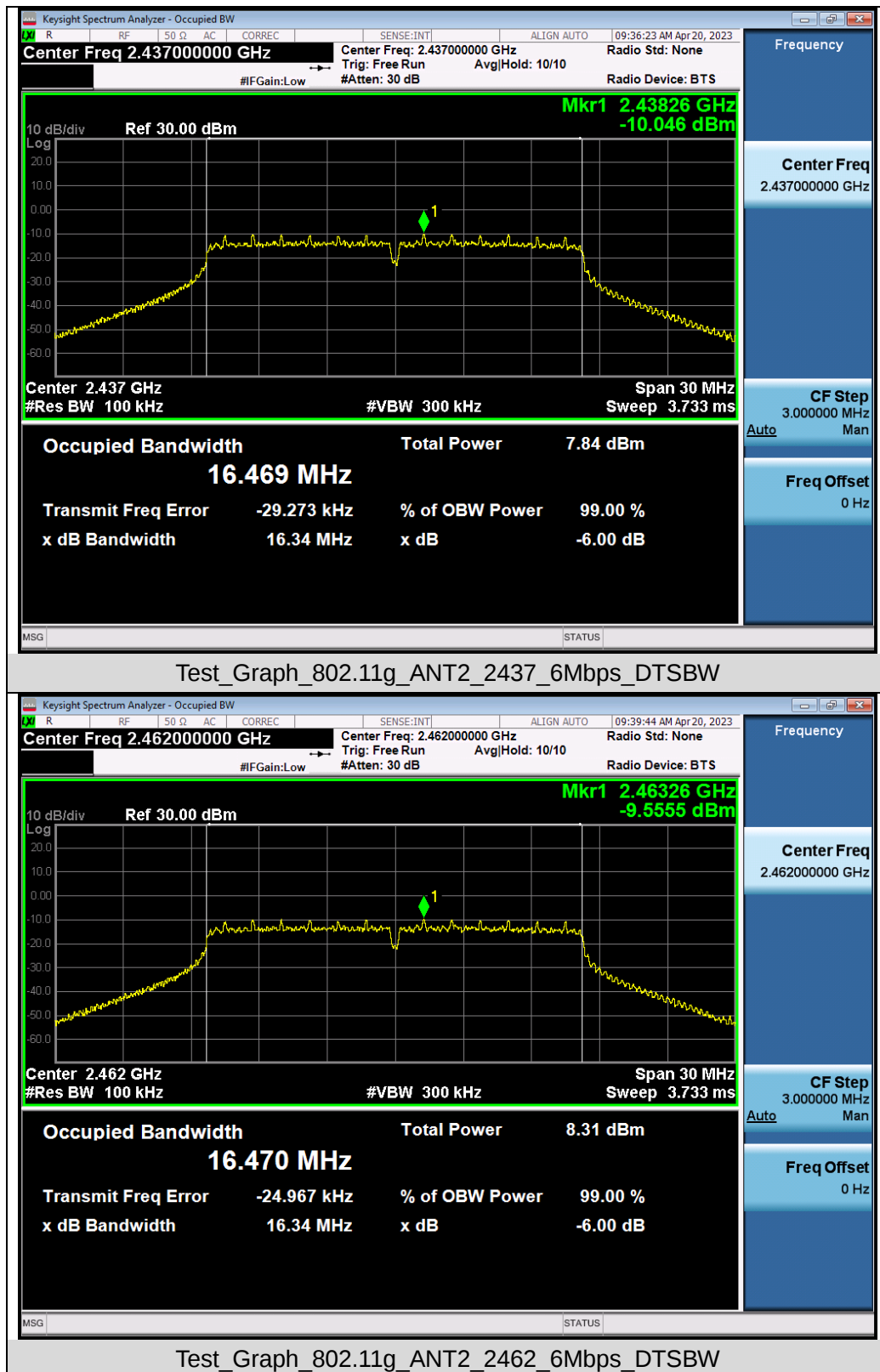
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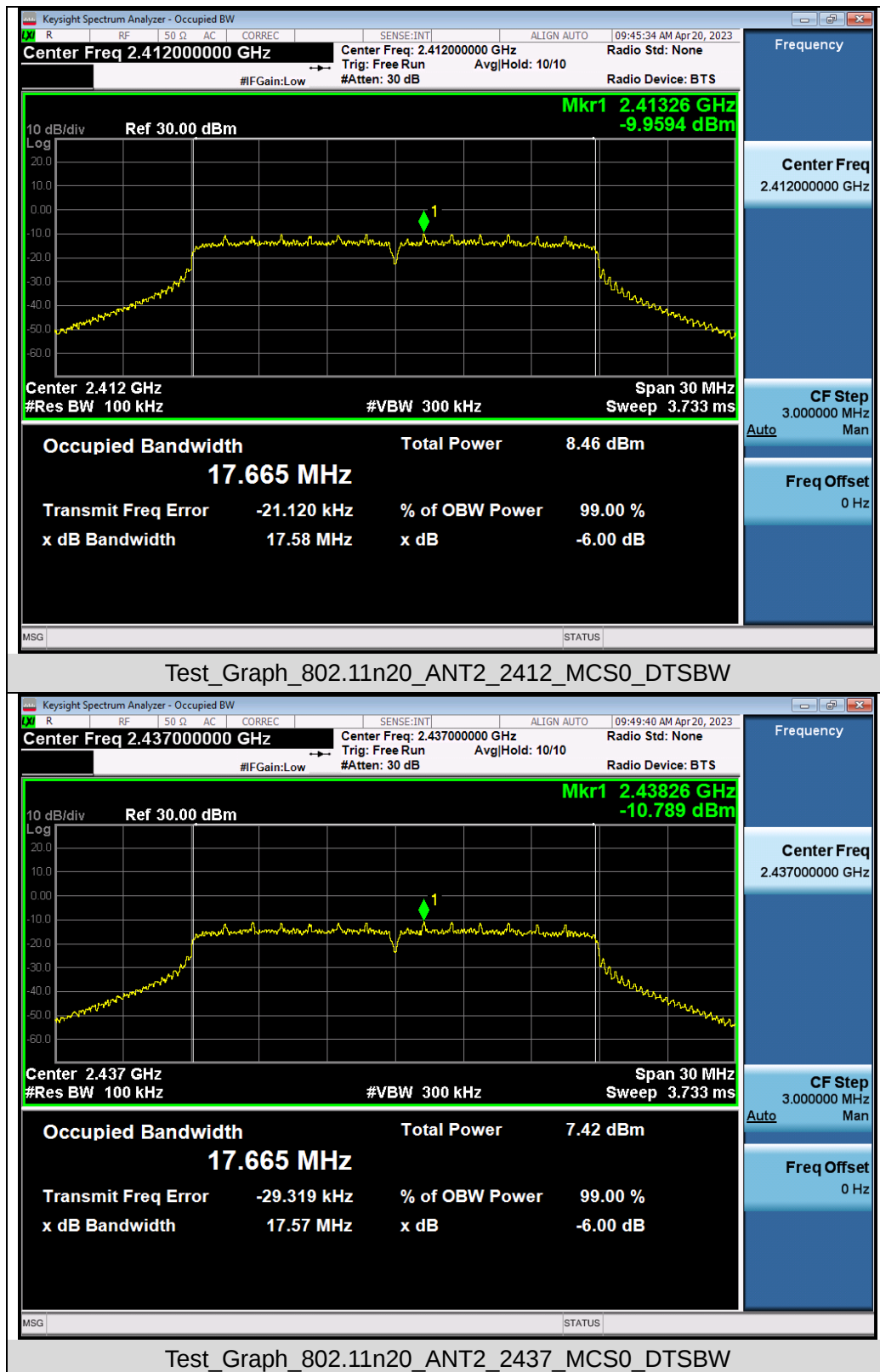
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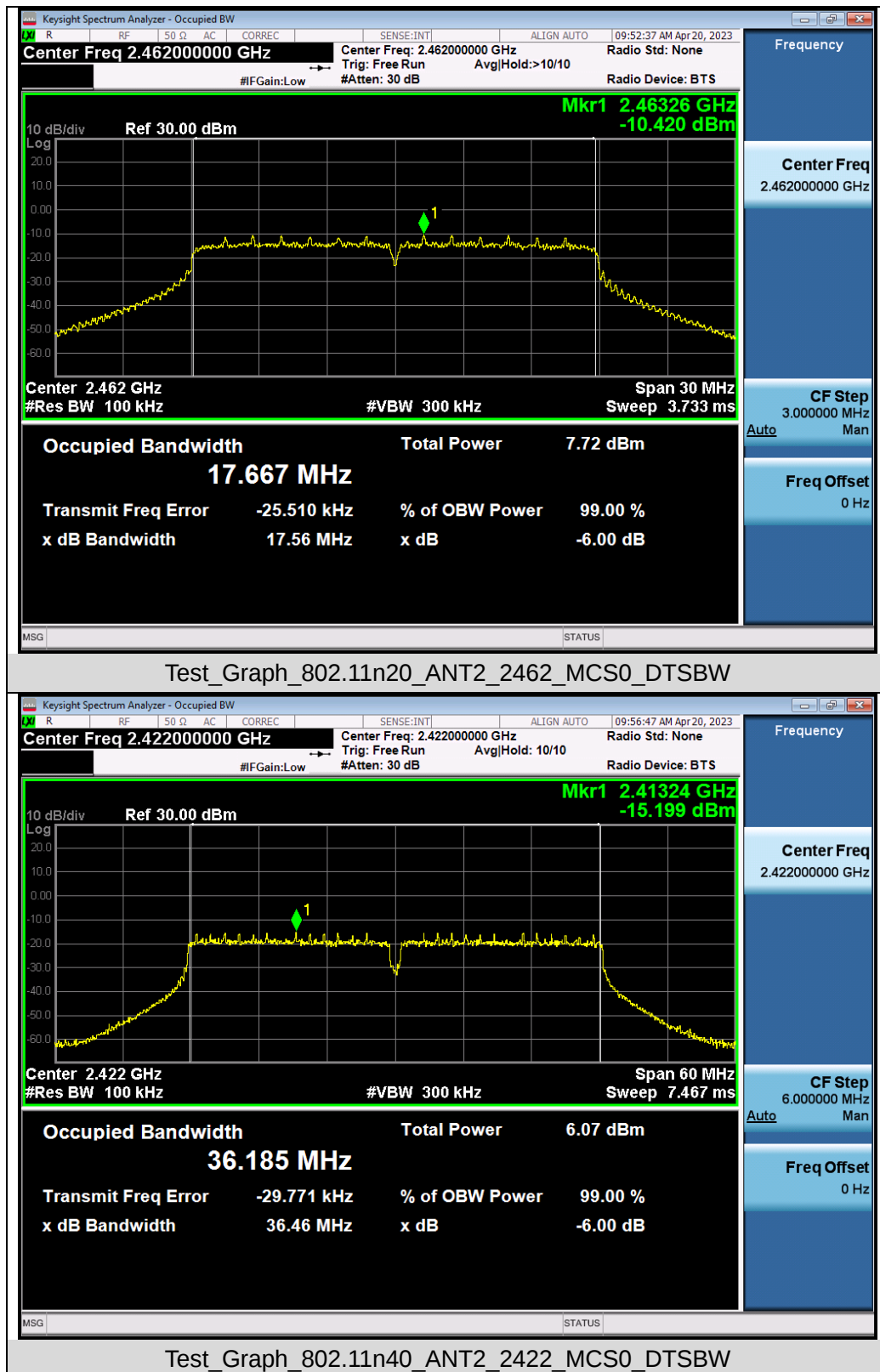
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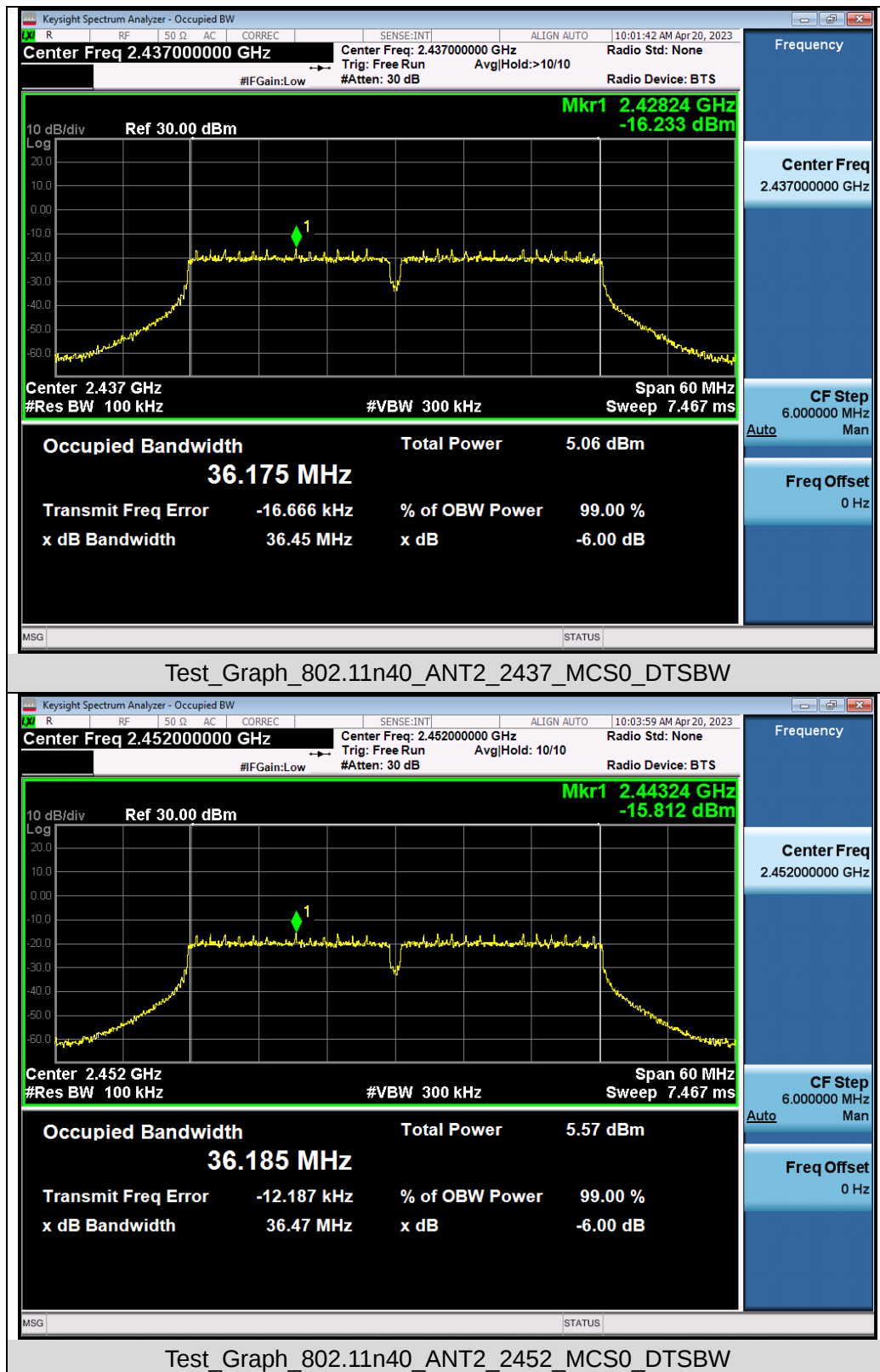
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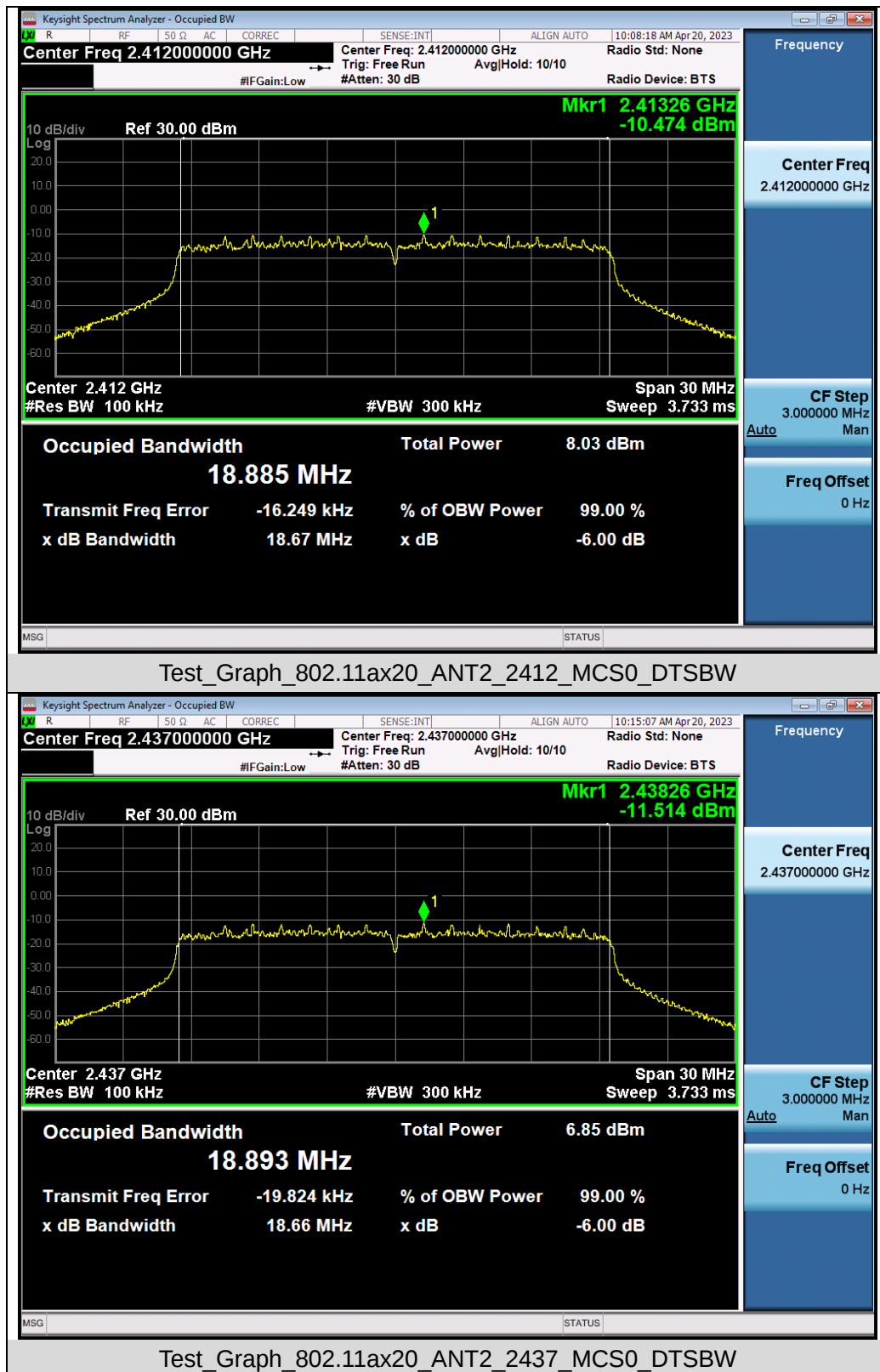
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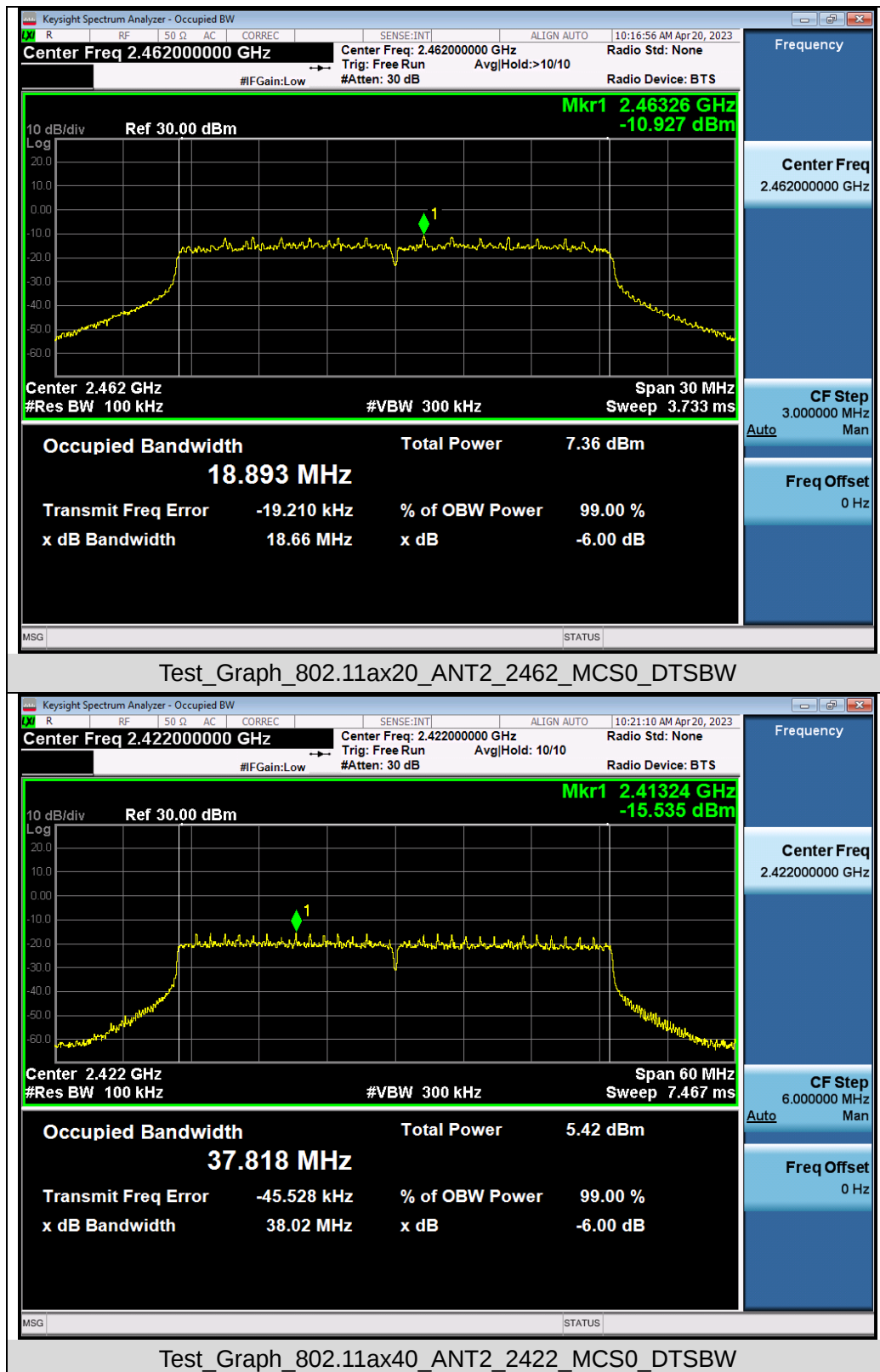
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