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# FCC Test Report

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Report No.: AGC12845230406FE06

**FCC ID** : 2A3NS-SCP300  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : RoboPusher Nimbo  
**BRAND NAME** : Sveaverken  
**MODEL NAME** : 9WZ-1.05A(SCP300)  
**APPLICANT** : Sveaverken Svea Agri AB  
**DATE OF ISSUE** : May 24, 2023  
**STANDARD(S)** : FCC Part 15.247  
**TEST PROCEDURE(S)** :  
**REPORT VERSION** : V1.0

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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 24, 2023	Valid	Initial Release

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**1. VERIFICATION OF CONFORMITY**

<b>Applicant</b>	Sveaverken Svea Agri AB
<b>Address</b>	Hogmossevagen 11, SE-641 39 Katrineholm, Sweden
<b>manufacturer</b>	Sveaverken Svea Agri AB
<b>Address</b>	Hogmossevagen 11, SE-641 39 Katrineholm, Sweden
<b>Factory</b>	Sveaverken Svea Agri AB
<b>Address</b>	Hogmossevagen 11, SE-641 39 Katrineholm, Sweden
<b>Product Designation</b>	RoboPusher Nimbo
<b>Brand Name</b>	Sveaverken
<b>Test Model</b>	9WZ-1.05A(SCP300)
<b>Date of receipt of test item</b>	Apr. 26. 2023
<b>Date of Test</b>	Apr. 26. 2023 to May 24, 2023
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	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



Alan Duan  
(Project Engineer)

May 24, 2023

Reviewed By



Calvin Liu  
(Reviewer)

May 24, 2023

Approved By



Max Zhang  
(Authorized Officer)

May 24, 2023

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as “RoboPusher Nimbo”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Equipment Type</b>	WLAN 2.4G
<b>Frequency Band</b>	2400MHz ~ 2483.5MHz
<b>Operation Frequency</b>	2412MHz ~ 2462MHz
<b>Output Power (Average)</b>	IEEE 802.11b:15.64dBm; IEEE 802.11g:14.86dBm; IEEE 802.11n(HT20):14.80dBm; IEEE 802.11ax (HE20):13.51dBm
<b>Output Power (Peak)</b>	IEEE 802.11b:17.71dBm; IEEE 802.11g:21.30dBm; IEEE 802.11n(HT20):20.01dBm; IEEE 802.11ax (HE20):19.14dBm
<b>Output Power (MIMO-Average)</b>	IEEE 802.11n(HT20):17.36dBm; IEEE 802.11ax (HE20):16.51dBm
<b>Output Power (MIMO-Peak)</b>	IEEE 802.11n(HT20):22.57dBm; IEEE 802.11ax (HE20):22.01dBm
<b>Modulation</b>	802.11b:DSSS(DQPSK, DBPSK, CCK) 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) 802.11ax:OFDMA(1024-QAM,256-QAM,64-QAM, 16-QAM, QPSK, BPSK)
<b>Data Rate</b>	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
<b>Number of channels</b>	11
<b>Hardware Version</b>	V1.0
<b>Software Version</b>	V1.0
<b>Antenna Designation</b>	Rod Antenna (Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	Refer to Chapter 2.10 of the report.
<b>Number of transmit chain</b>	2(802.11b/g/n/ax all used two antennas,802.11n/ax support MIMO)
<b>Power Supply</b>	DC 48V

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**2.2. TABLE OF CARRIER FREQUENCYS**

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11. For 40MHZ bandwidth system use Channel 3 to Channel 9

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## 2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps)	
					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 $\mu$ s GI	1.6 $\mu$ s GI	3.2 $\mu$ 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	16-QAM	3/4	4	234	468	351	25.8	24.4	21.9
3	1		1/2		117	468	234	17.2	16.3	14.6
	0		1/2		234	936	468	34.4	32.5	29.3
4	1	16-QAM	3/4	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	234	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	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
NBPS	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 $\mu$ s GI	1.6 $\mu$ s GI	3.2 $\mu$ 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	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
NBPS	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: 2A3NS-SCP300** filing to comply with the FCC Part 15 requirements.

## 2.6. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

## 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

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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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 Rod Antenna List (2.4GHz 2*2 MIMO)						
Rod Antenna	2400~2500	2	20	2.75	2.75	5.76

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 =  $G_{ANT} + \text{Array Gain}$ , where Array Gain is as follows.

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

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

- For power measurements on IEEE 802.1 devices:

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

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

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

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### 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	$U_c = \pm 2 \text{ %}$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \text{ %}$

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#### 4. DESCRIPTION OF TEST MODES

Summary table of Test Cases	
Test Item	Data Rate / Modulation
	2.4G WLAN – 802.11b/g/n/ax(DSSS, OFDM,OFDMA)
Radiated&Conducted Test Cases	Mode 1: 802.11b_TX CH01_2412 MHz_1 Mbps Mode 2: 802.11b_TX CH06_2437 MHz_1 Mbps Mode 3: 802.11b_TX CH11_2462 MHz_1 Mbps Mode 4: 802.11g_TX CH01_2412 MHz_6 Mbps Mode 5: 802.11g_TX CH06_2437 MHz_6 Mbps Mode 6: 802.11g_TX CH11_2462 MHz_6 Mbps Mode 7: 802.11n-HT20_TX CH01_2412 MHz_MCS0 Mbps Mode 8: 802.11n-HT20_TX CH06_2437 MHz_MCS0 Mbps Mode 9: 802.11n-HT20_TX CH11_2462 MHz_MCS0 Mbps Mode 10: 802.11ax-HE20_TX CH01_2412 MHz_MCS0 Mbps Mode 11: 802.11ax-HE20_TX CH06_2437 MHz_MCS0 Mbps Mode 12: 802.11ax-HE20_TX CH11_2462 MHz_MCS0 Mbps
AC Conducted Emission	Mode 1: 2.4G WLAN Link (Charging from AC Adapter)

**Note:**

1. The battery is full-charged during the test.
2. 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%
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
4. For Conducted Test method, a temporary antenna connector is provided by the manufacturer.
5. All radiated spurious emission and conducted interference modes have been pre scanned, and the report only records that antenna 1+antenna 2 work in the worst mode.

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## Software Setting

```
Serial-COM12 - SecureCRT
文件(F) 编辑(E) 帮助(V) 选项(O) 传输(T) 脚本(S) 工具(L) 帮助(H)
Serial-COM12
wl scansuppress 0
console:/ # wl country ALL
wl txchain 1
wl phy_txpwrctrl 1
console:/ # wl chanspec 36
wl pkteng_start 00:90:4c:14:43:19 tx 100 1000 0
Chanspec_set to 0xd024
sleep 0.2
console:/ # wl mimo_txbw -1
console:/ # wl up
console:/ # wl phy_forcecal 1
console:/ # wl scansuppress 0
console:/ # wl txchain 1
console:/ # wl 5g_rate -r 6 -b 20
console:/ # wl phy_txpwrctrl 1
console:/ # wl txpwr1 -o -d 13
console:/ # wl pkteng_start 00:90:4c:14:43:19 tx 100 1000 0
console:/ # sleep 0.2
console:/ # [ 62.57271703] fb: mem_free_work, free memory: addr:800000
wl pkteng_stop tx
console:/ # [ 79.664501@1] [dhd][wlan0] wl_run_escan : LEGACY_SCAN sync ID: 2,
bssid: 0
ma
stuc
Default 1 2 3 4 5 6 7 reset show reboot
1
115200, 8D, 1S, 0P, 0M, 0T, 100
top tx A
hdog 0
LL
36
w -1
local 1
ress 0
6 -b 20
rctrl 1
o -d 13
start 00:90:4c:14:43:19
top tx N20
```

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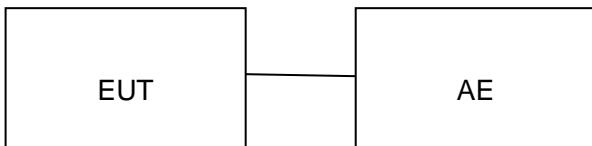
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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	RoboPusher Nimbo	9WZ-1.05A(SCP300)	2A3NS-SCP300	EUT
2	Sveaverken Easy Control	EC20	N/A	AE

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	RF Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power Spectral Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

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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, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Power sensor	Aglient	U2021XA	MY54110007	Mar. 03, 2023	Mar. 02, 2024
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
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, 2023	Apr. 22, 2024
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-49 4	Jan. 05, 2023	Jan. 04, 2025
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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## 7. RF OUTPUT POWER MEASUREMENT

### 7.1 MEASUREMENT LIMITS

According to Section (b)(3) of the FCC PART15.247 standard:

For DTSs 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

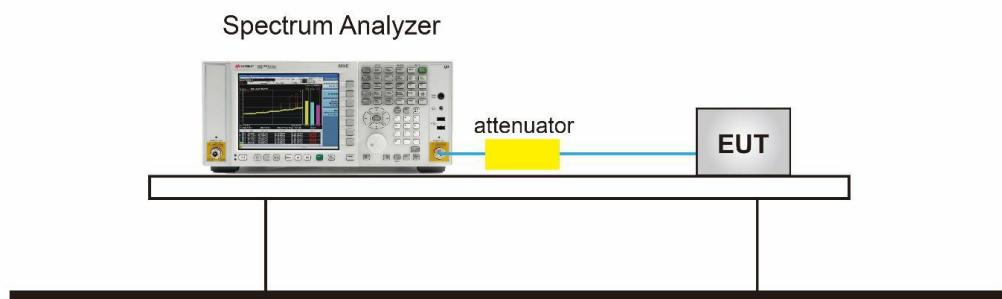
For peak power test:

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. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power-antenna 1					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	15.64	17.71	≤30	Pass
	2437	15.09	17.13	≤30	Pass
	2462	14.42	16.39	≤30	Pass
802.11g	2412	14.68	20.07	≤30	Pass
	2437	13.87	19.89	≤30	Pass
	2462	13.98	19.02	≤30	Pass
802.11n-HT20	2412	14.80	20.01	≤30	Pass
	2437	13.56	18.76	≤30	Pass
	2462	13.19	18.18	≤30	Pass
802.11ax-HE20	2412	13.51	18.86	≤30	Pass
	2437	12.51	17.81	≤30	Pass
	2462	12.81	18.24	≤30	Pass

Test Data of Conducted Output Power-antenna 2					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	15.46	17.45	≤30	Pass
	2437	14.62	16.70	≤30	Pass
	2462	14.77	16.87	≤30	Pass
802.11g	2412	14.86	21.30	≤30	Pass
	2437	13.92	19.29	≤30	Pass
	2462	13.32	19.55	≤30	Pass
802.11n-HT20	2412	13.85	19.05	≤30	Pass
	2437	12.67	17.90	≤30	Pass
	2462	13.33	18.33	≤30	Pass
802.11ax-HE20	2412	13.48	19.14	≤30	Pass
	2437	12.57	17.88	≤30	Pass
	2462	12.79	18.17	≤30	Pass

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<b>Test Data of Conducted Output Power-MIMO</b>					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11n-HT20	2412	17.36	22.57	≤30	Pass
	2437	16.15	21.36	≤30	Pass
	2462	16.27	21.27	≤30	Pass
802.11ax-HE20	2412	16.51	22.01	≤30	Pass
	2437	15.55	20.86	≤30	Pass
	2462	15.81	21.22	≤30	Pass

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## 8. 6DB BANDWIDTH MEASUREMENT

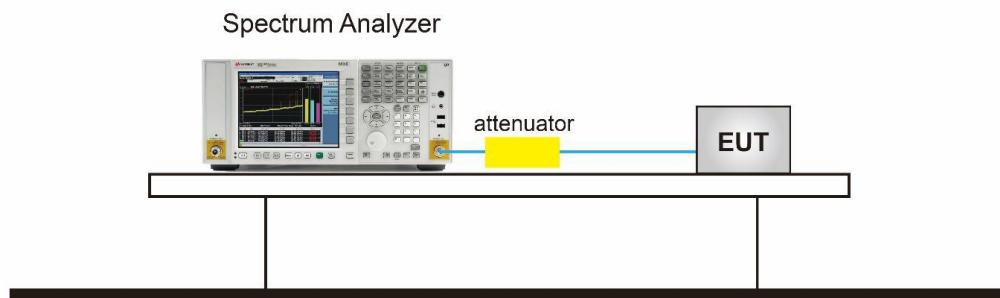
### 8.1 MEASUREMENT LIMITS

The minimum 6dB bandwidth shall be at least 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)  $\geq 3 * \text{RBW}$ .
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	14.931	12.02	≥0.5	Pass
	2437	14.927	11.07	≥0.5	Pass
	2462	14.930	11.07	≥0.5	Pass
802.11g	2412	16.495	16.35	≥0.5	Pass
	2437	16.503	16.36	≥0.5	Pass
	2462	16.502	16.36	≥0.5	Pass
802.11n20	2412	17.765	17.57	≥0.5	Pass
	2437	17.774	17.58	≥0.5	Pass
	2462	17.766	17.58	≥0.5	Pass
802.11ax20	2412	18.957	18.67	≥0.5	Pass
	2437	18.959	18.65	≥0.5	Pass
	2462	18.961	18.67	≥0.5	Pass

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	14.931	11.06	≥0.5	Pass
	2437	14.932	11.07	≥0.5	Pass
	2462	14.932	12.02	≥0.5	Pass
802.11g	2412	16.490	16.35	≥0.5	Pass
	2437	16.498	16.36	≥0.5	Pass
	2462	16.500	16.36	≥0.5	Pass
802.11n20	2412	17.783	17.58	≥0.5	Pass
	2437	17.782	17.59	≥0.5	Pass
	2462	17.786	17.60	≥0.5	Pass
802.11ax20	2412	18.958	18.62	≥0.5	Pass
	2437	18.967	18.67	≥0.5	Pass
	2462	18.973	18.76	≥0.5	Pass

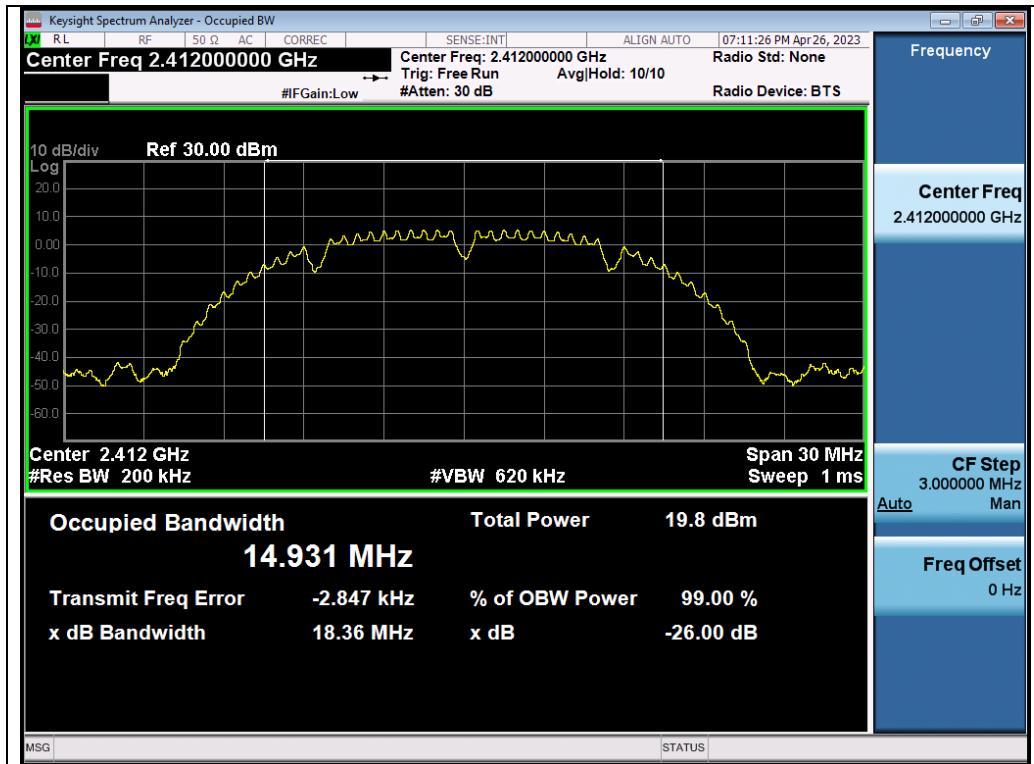
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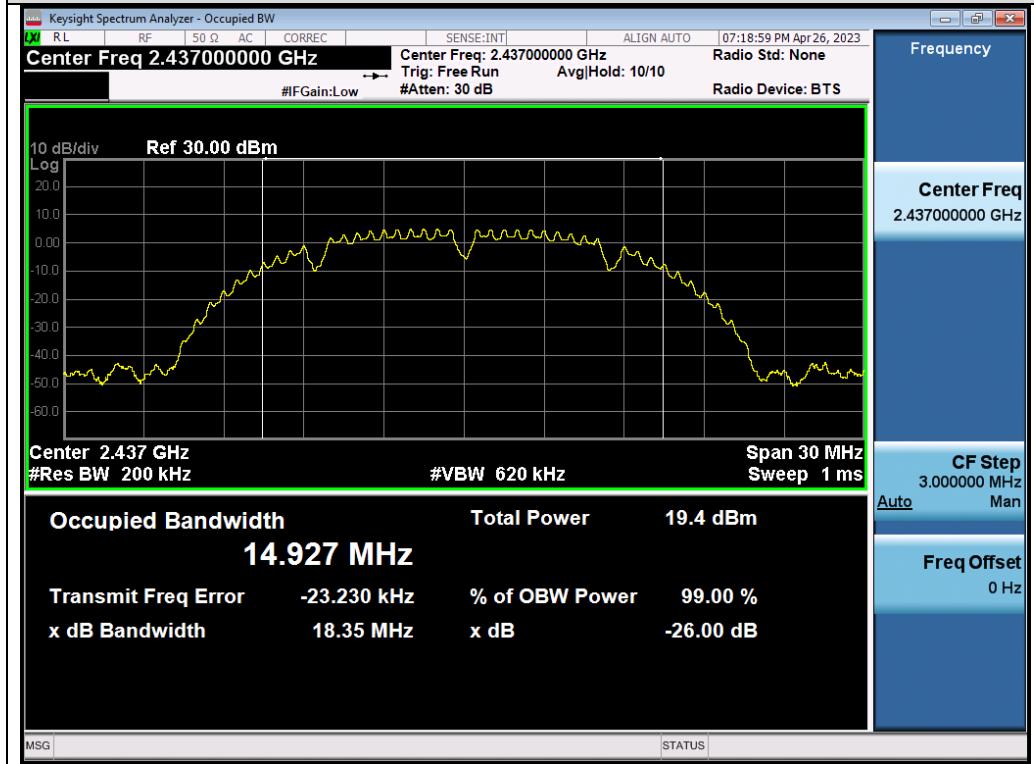
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### Test Graphs of Occupied Bandwidth



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_OBW



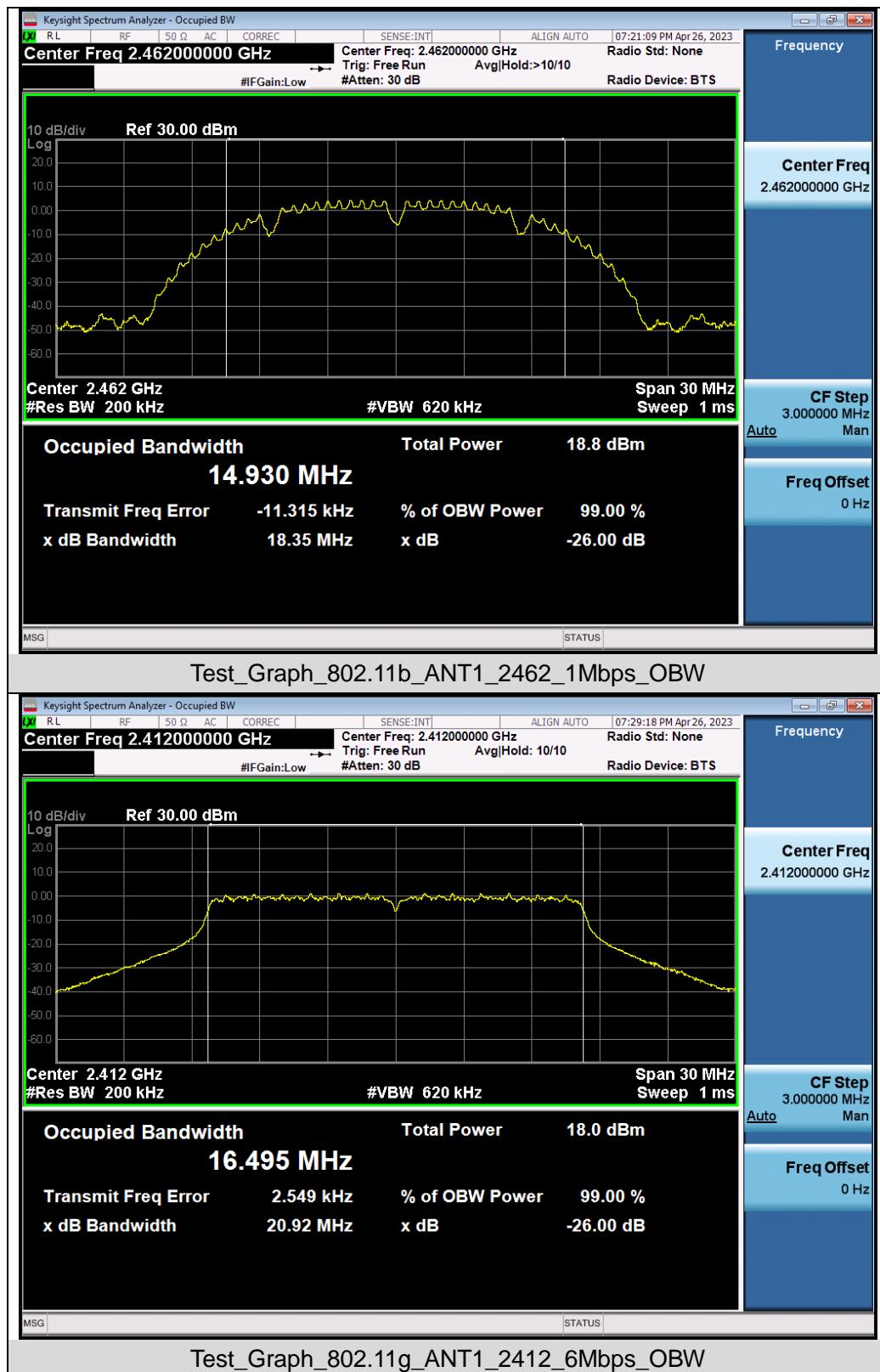
Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_OBW

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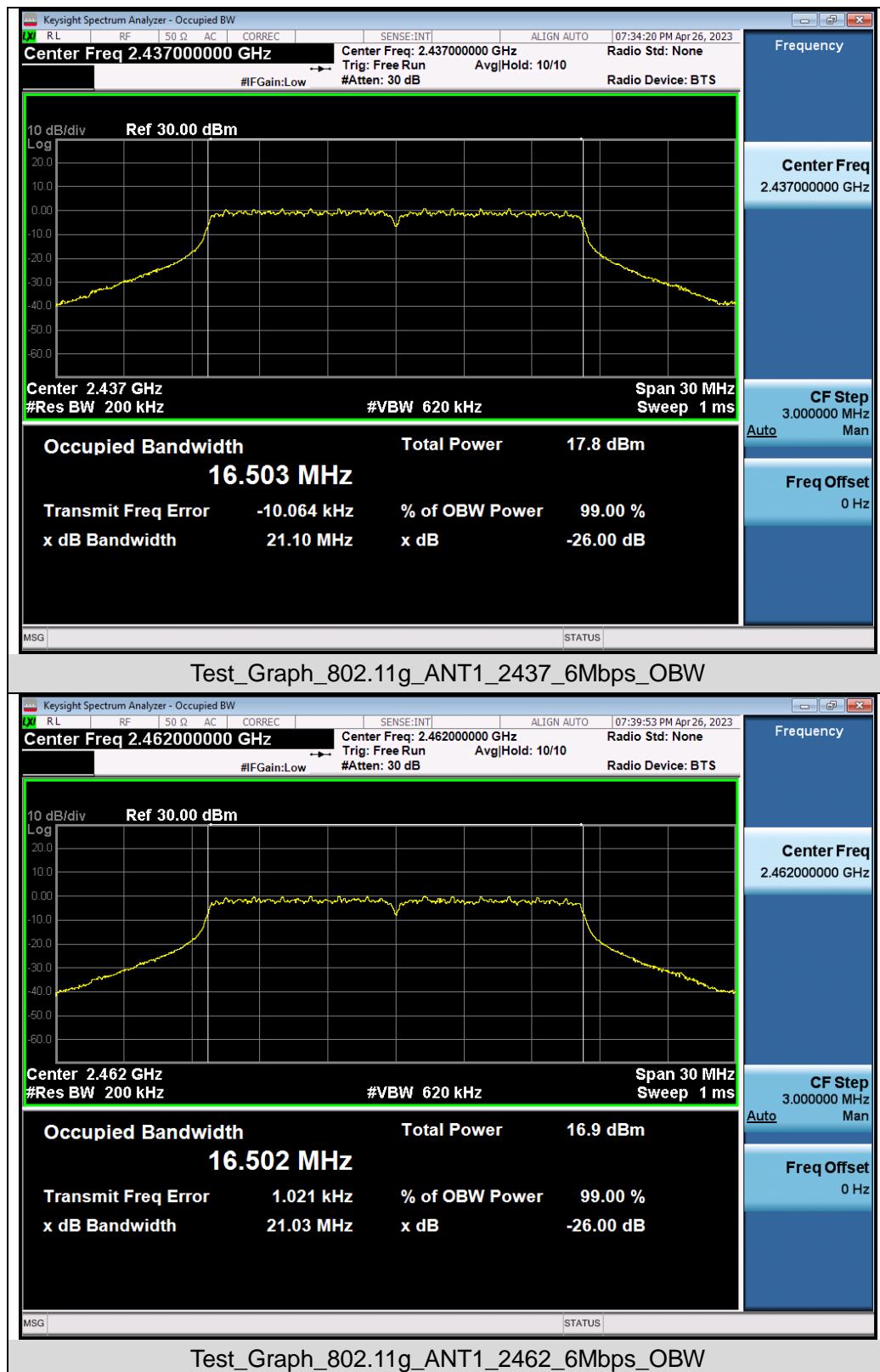


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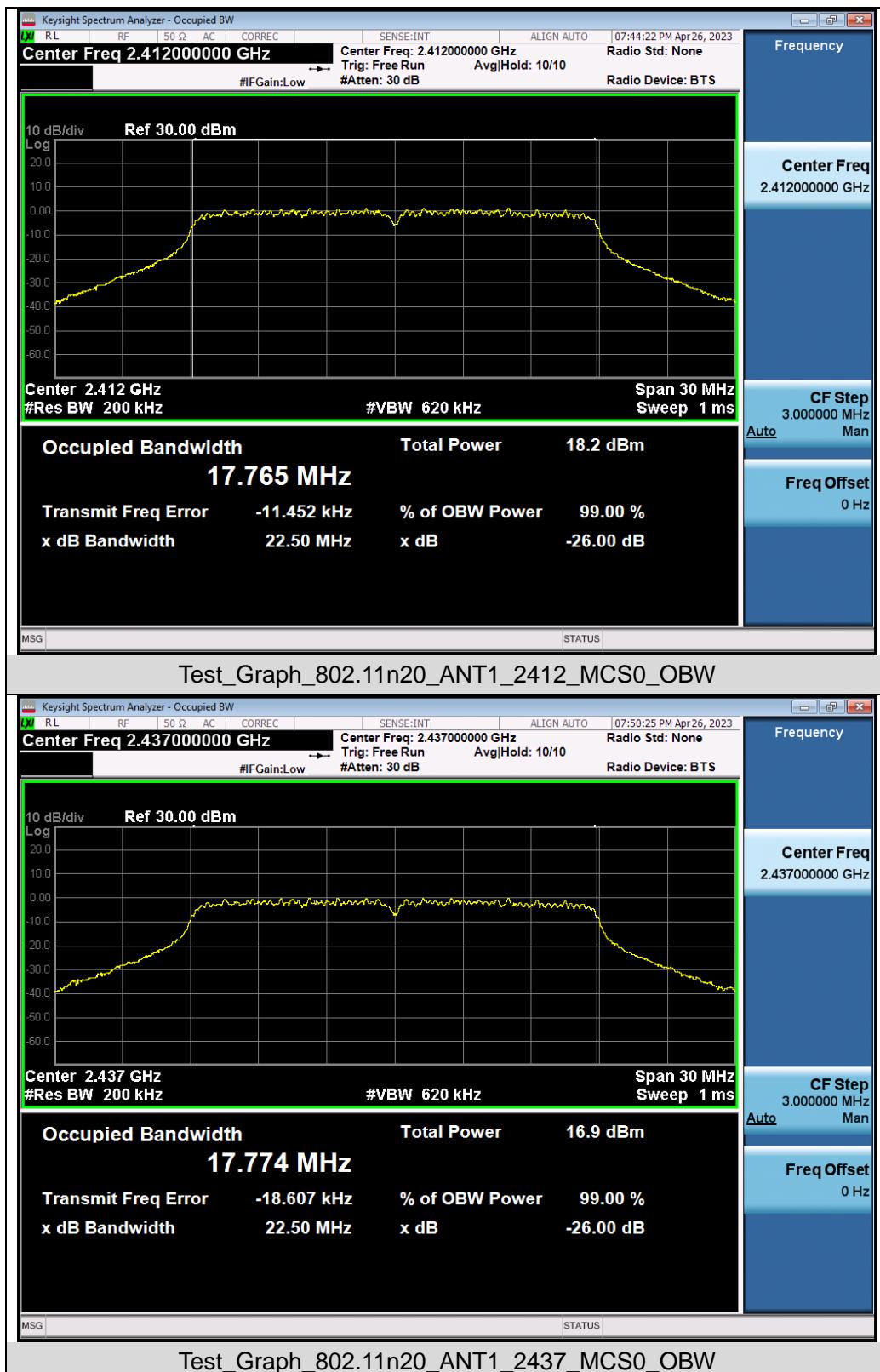


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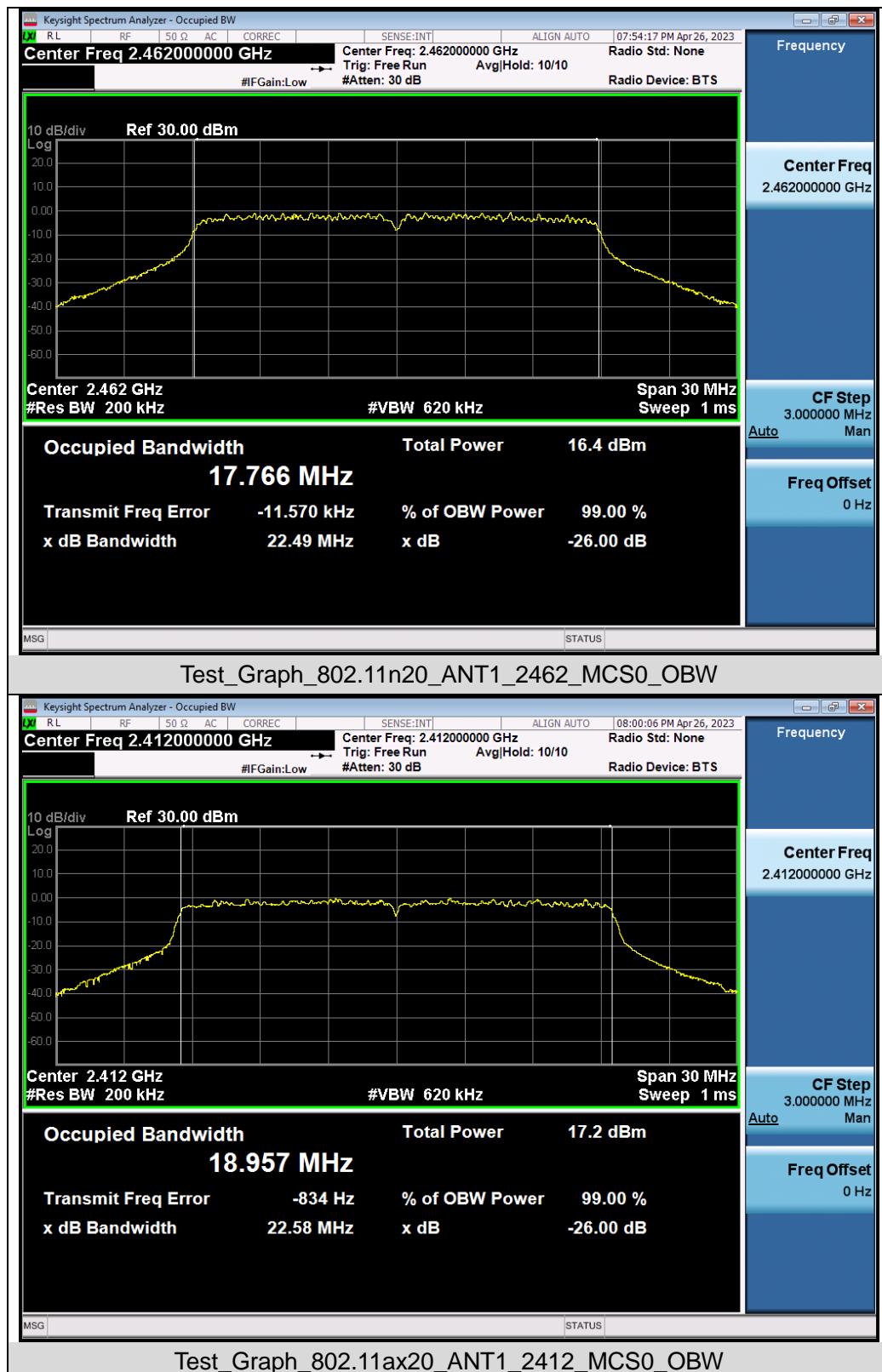


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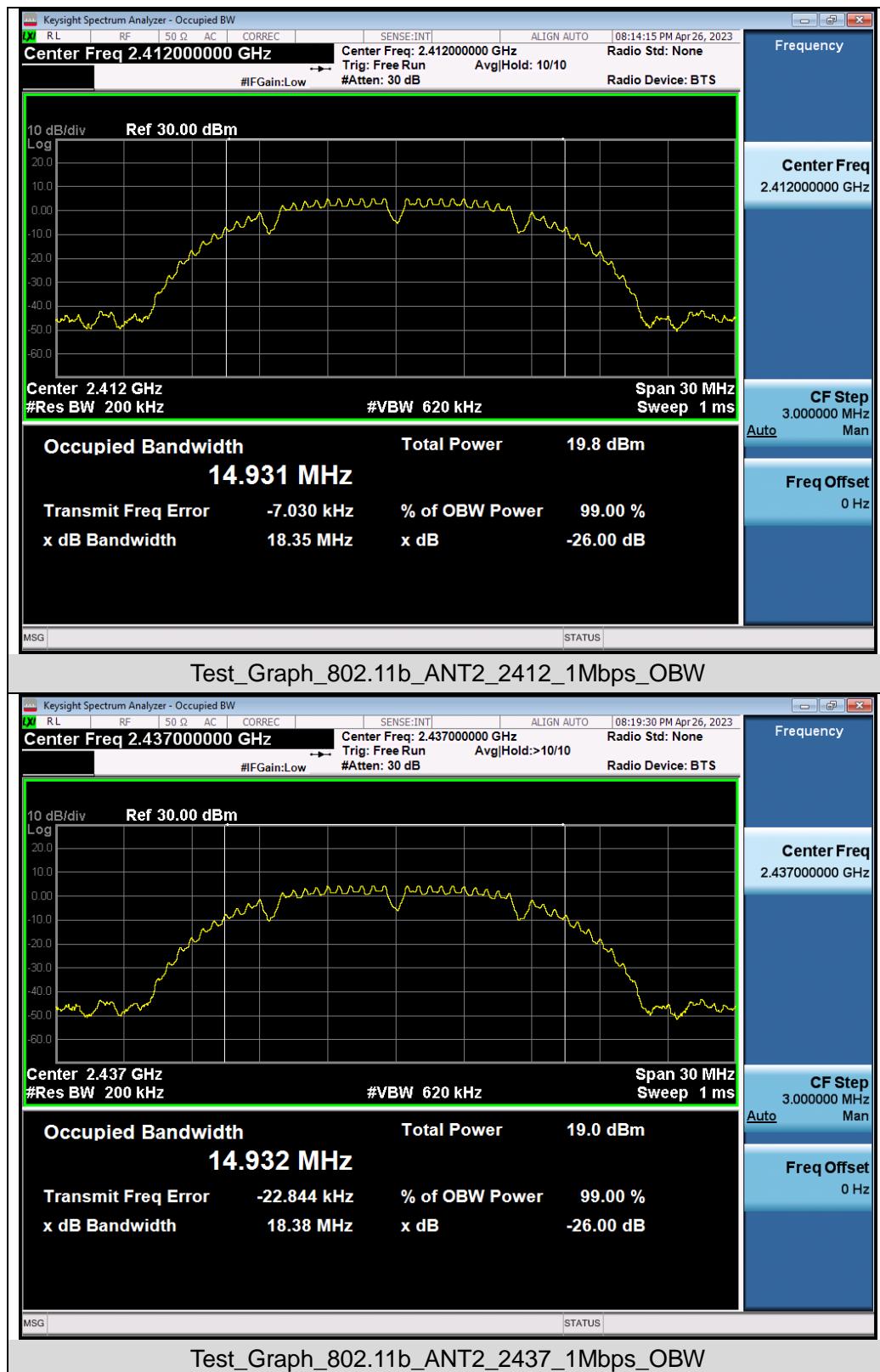


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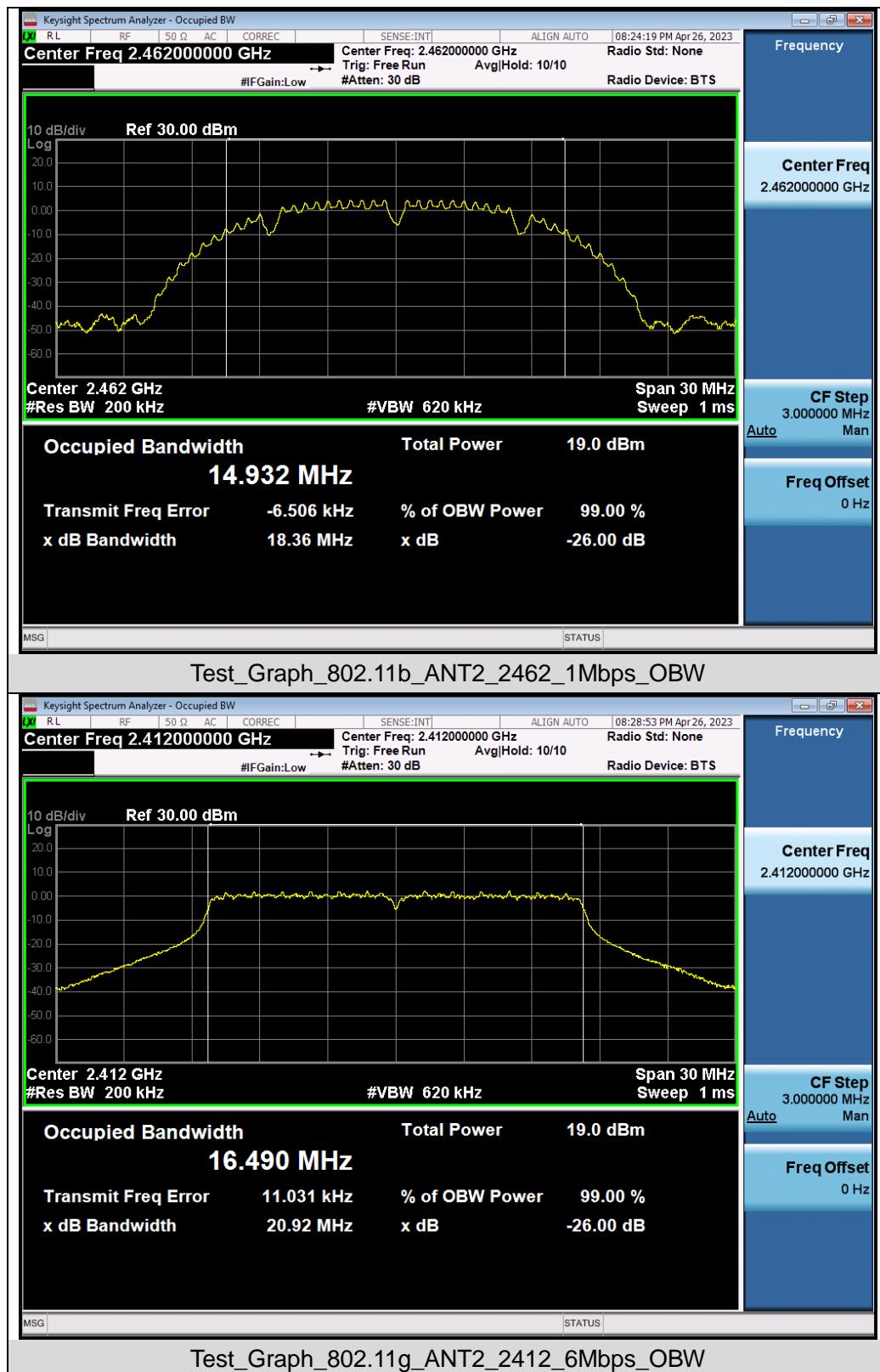


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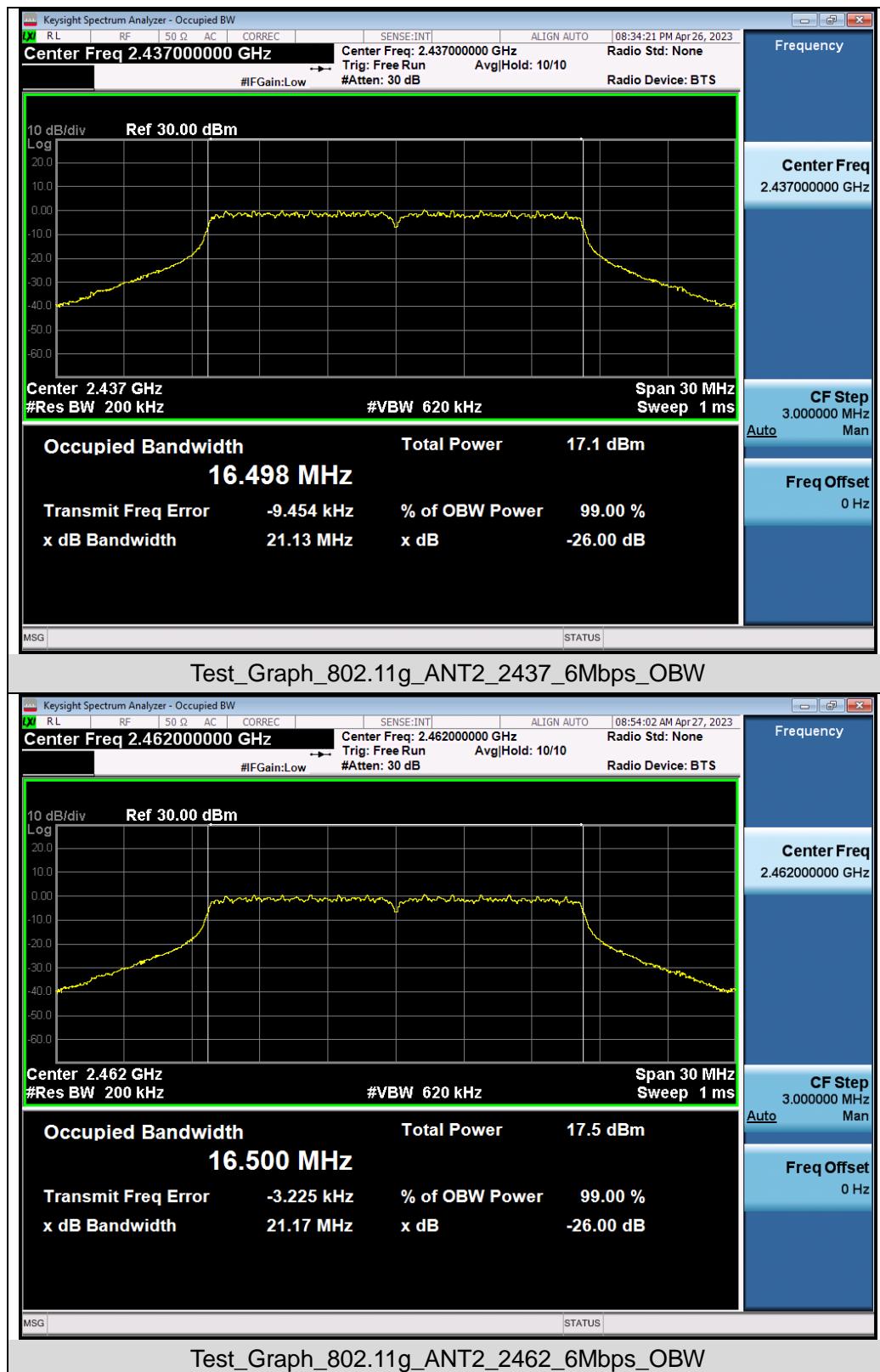


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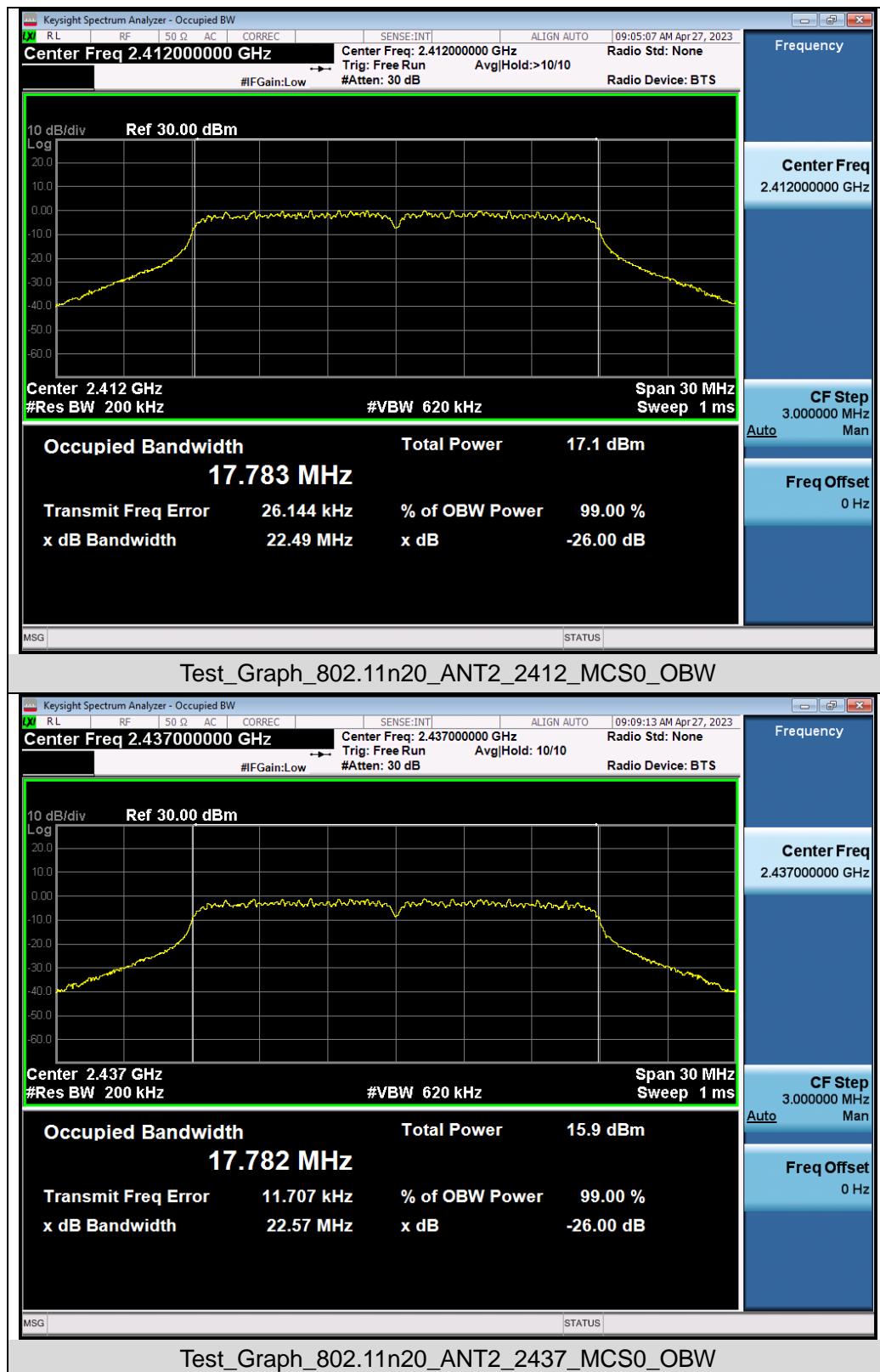


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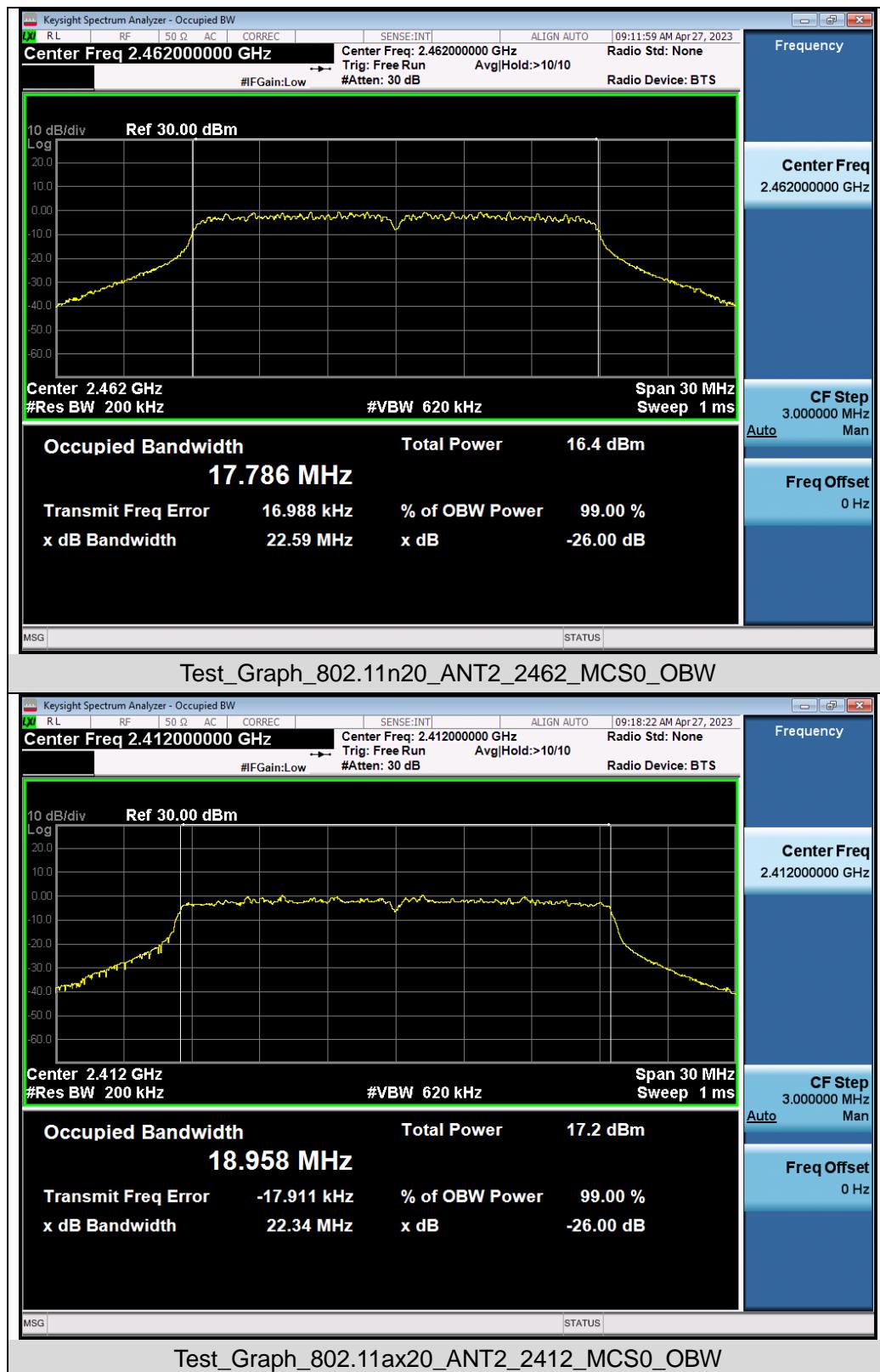


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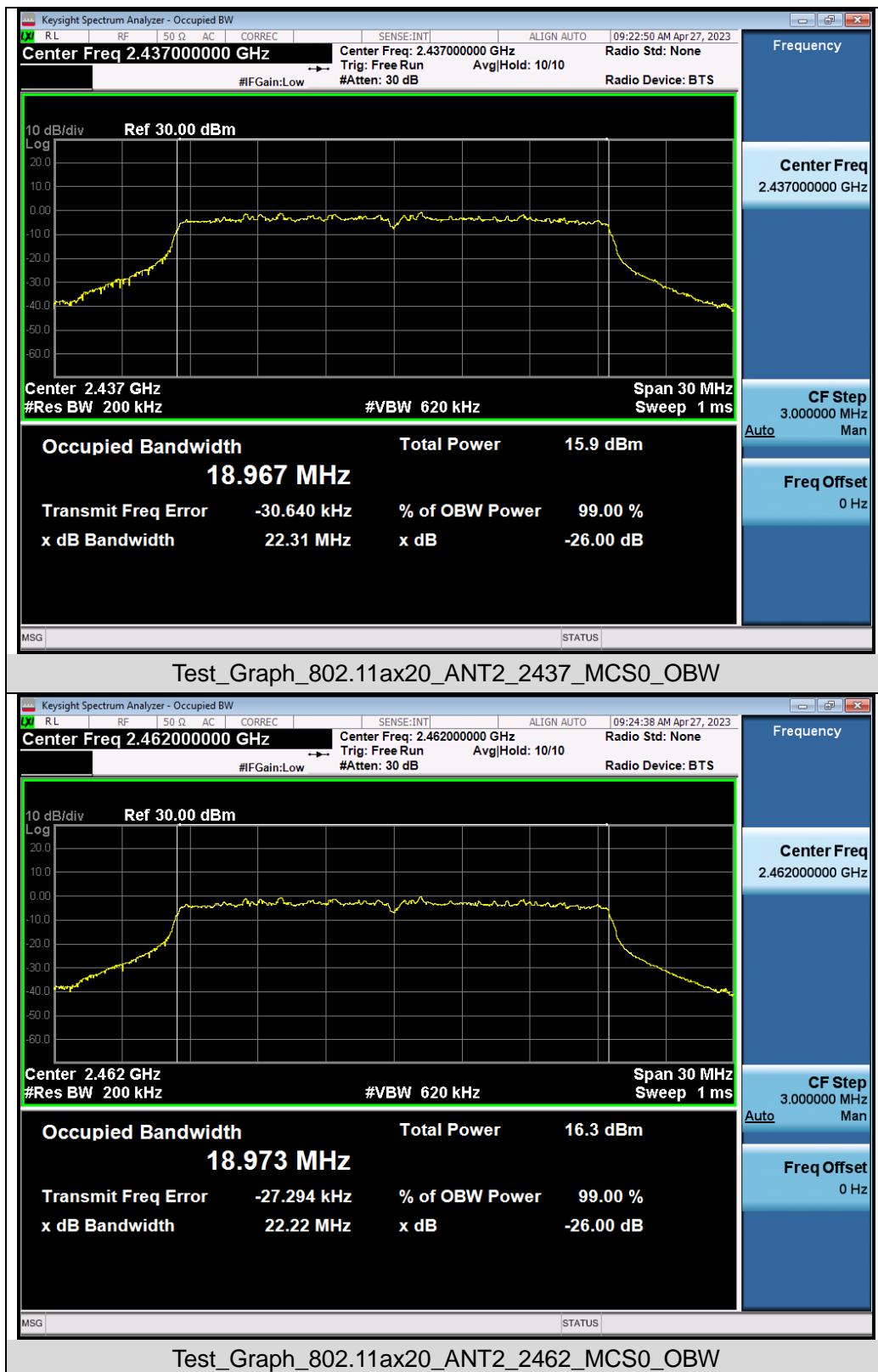


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## Test Graphs of DTS Bandwidth



Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_DTSBW



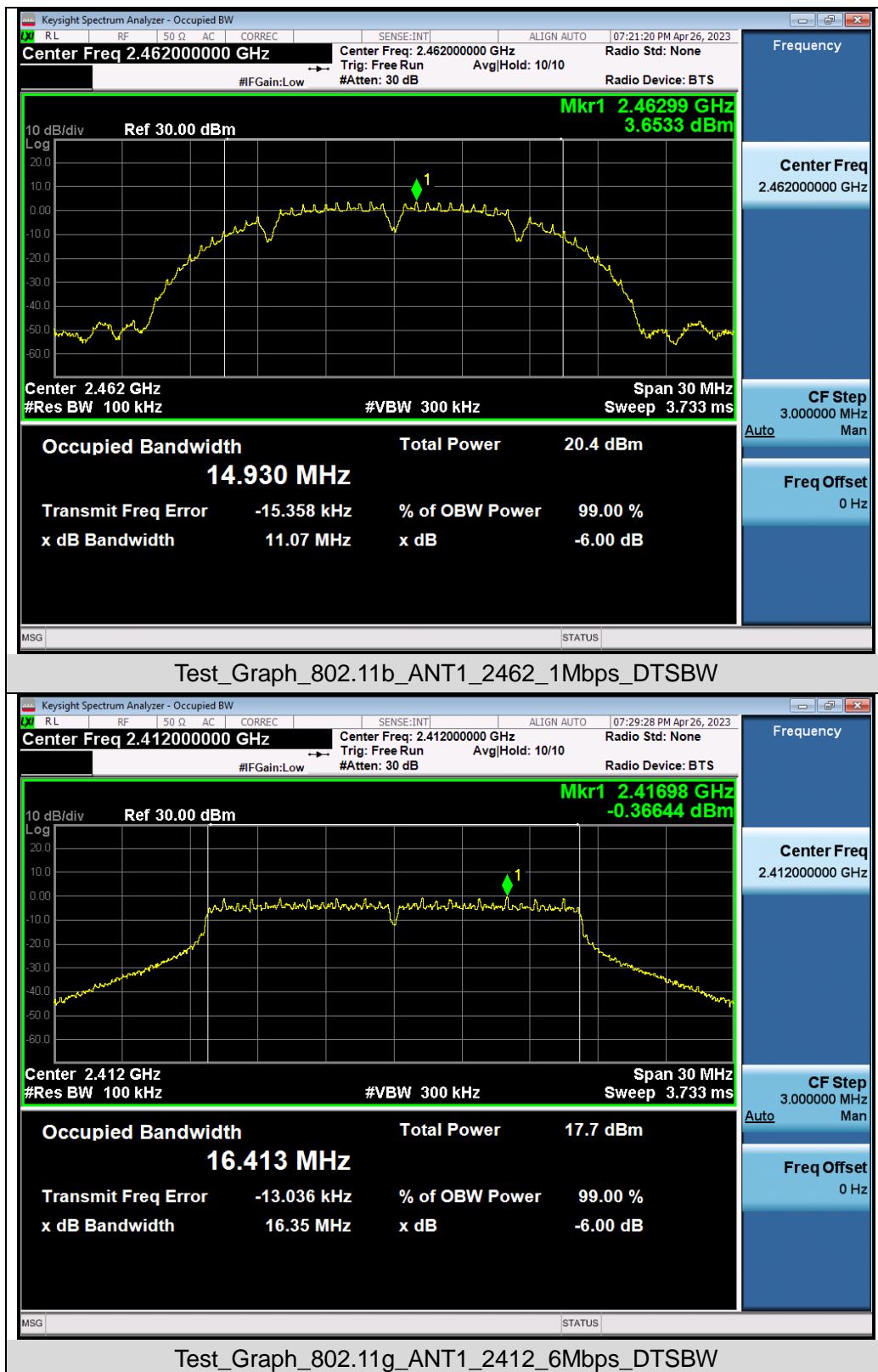
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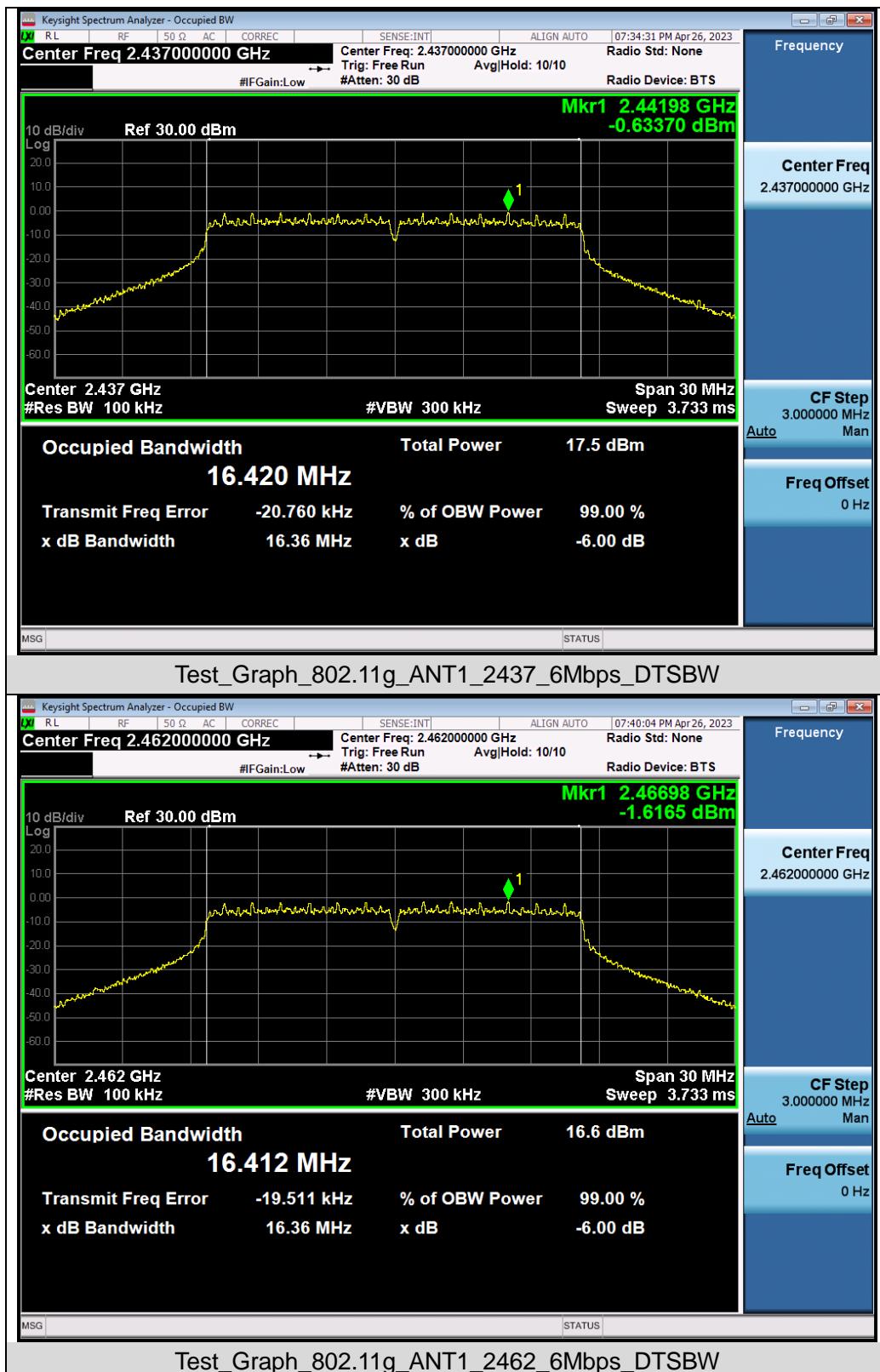


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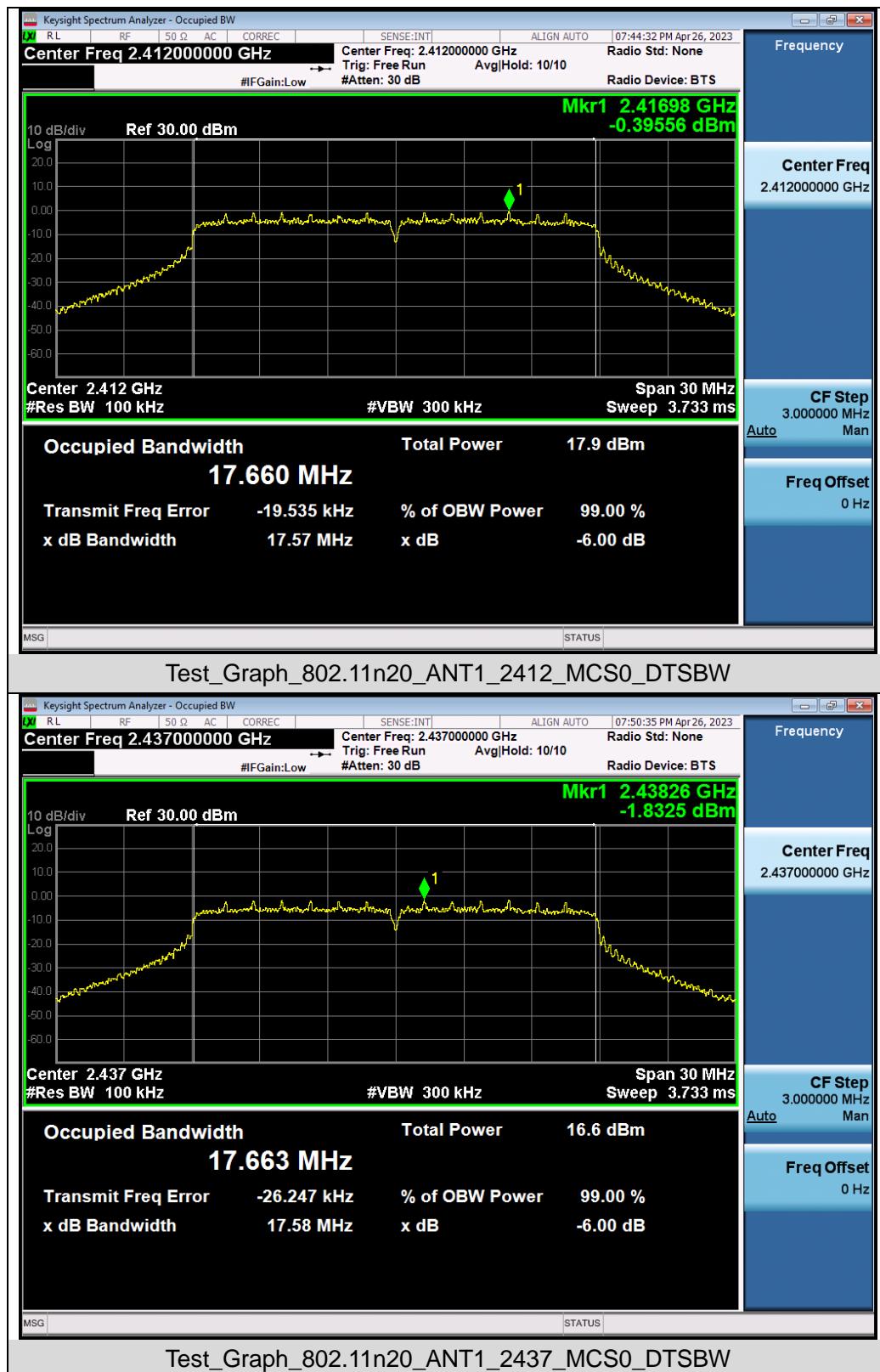


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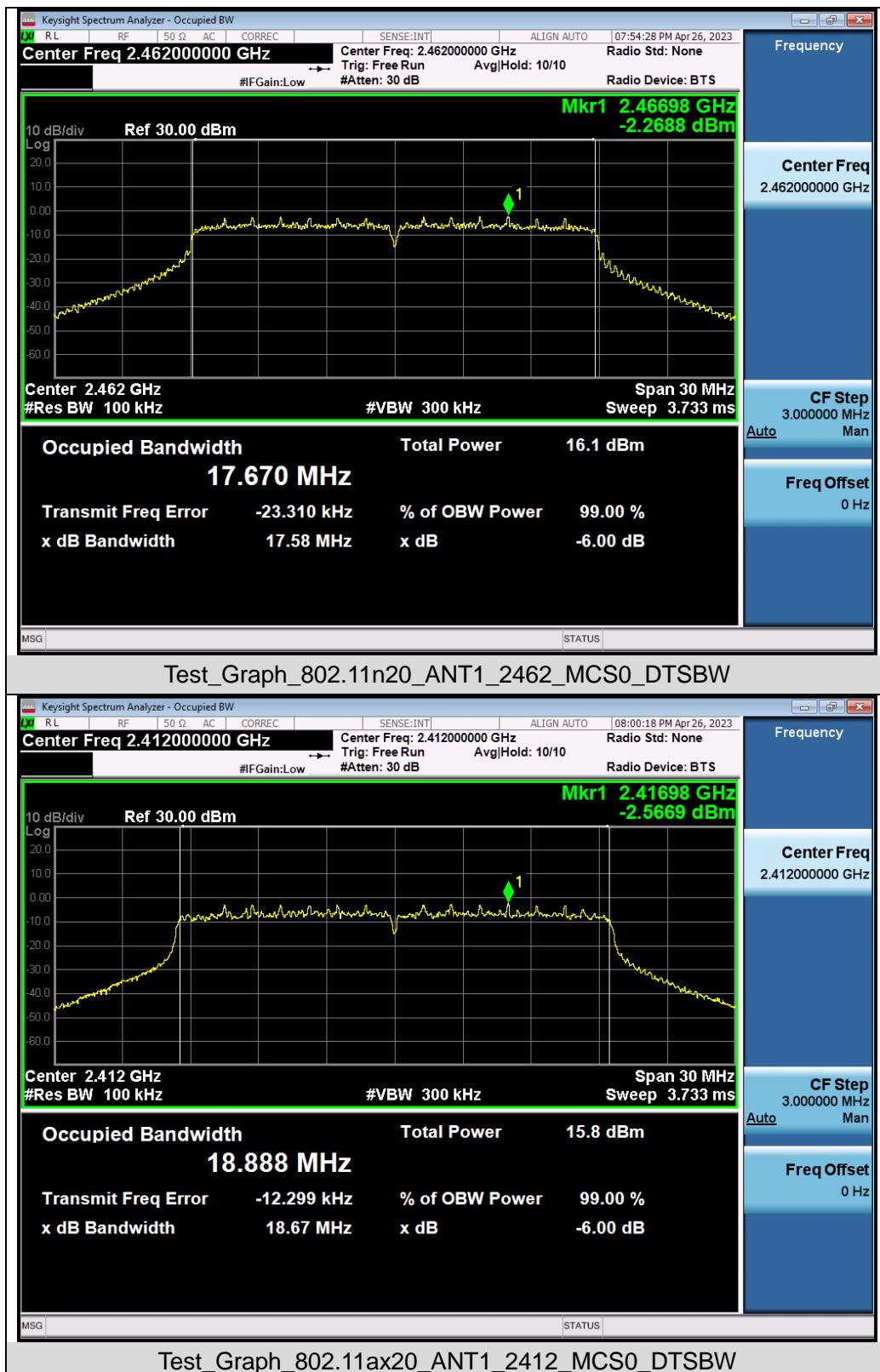


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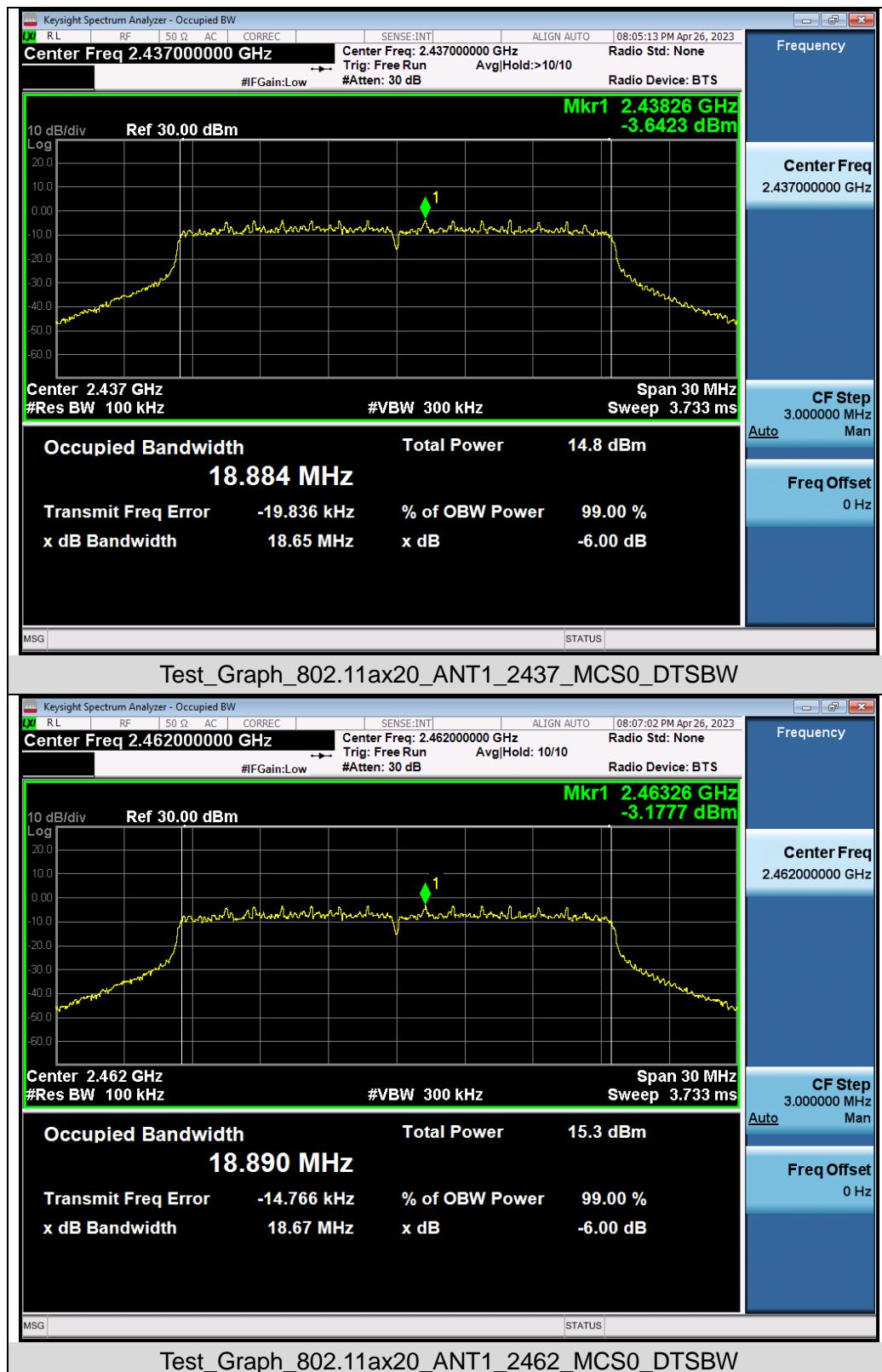


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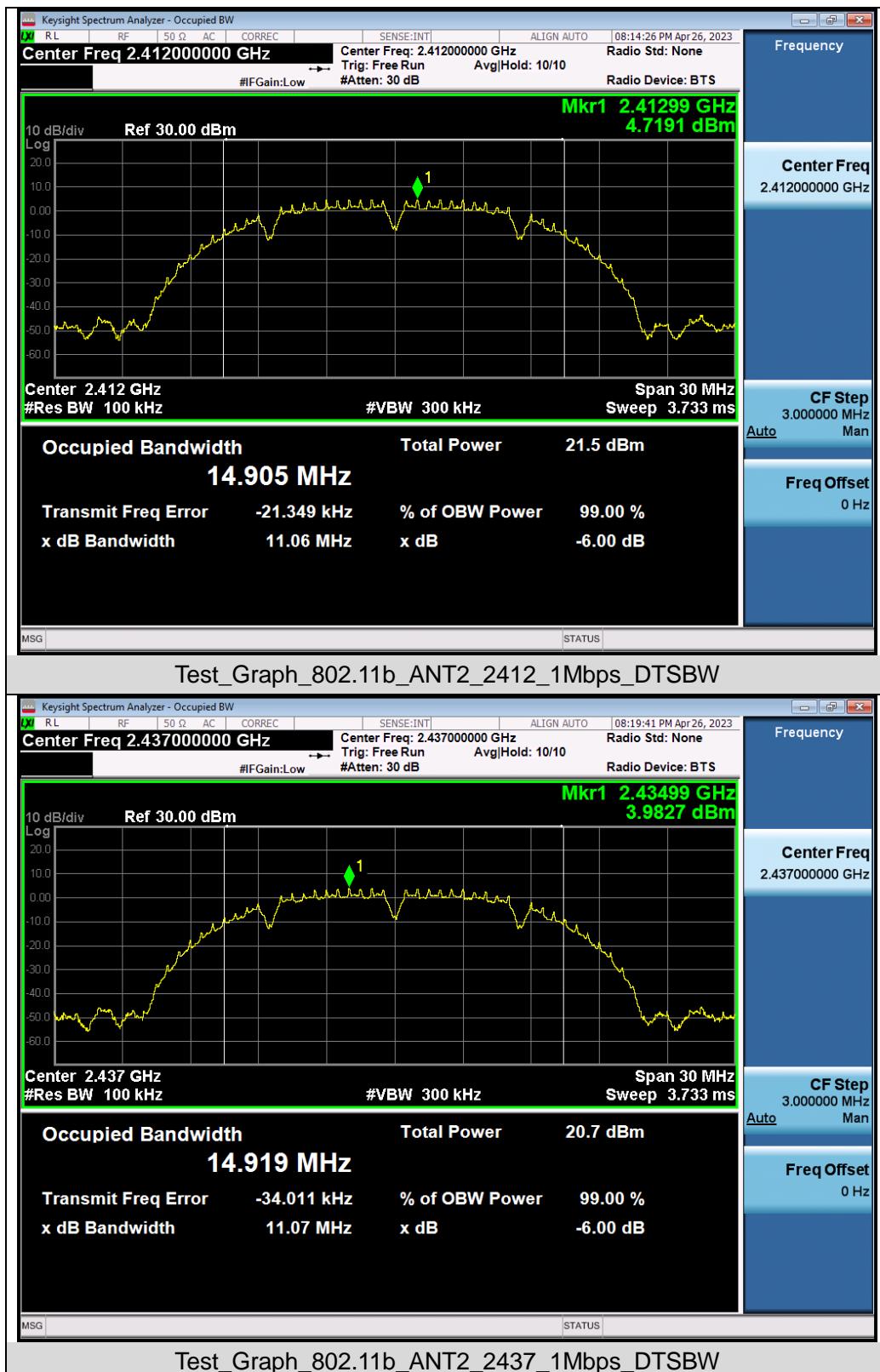


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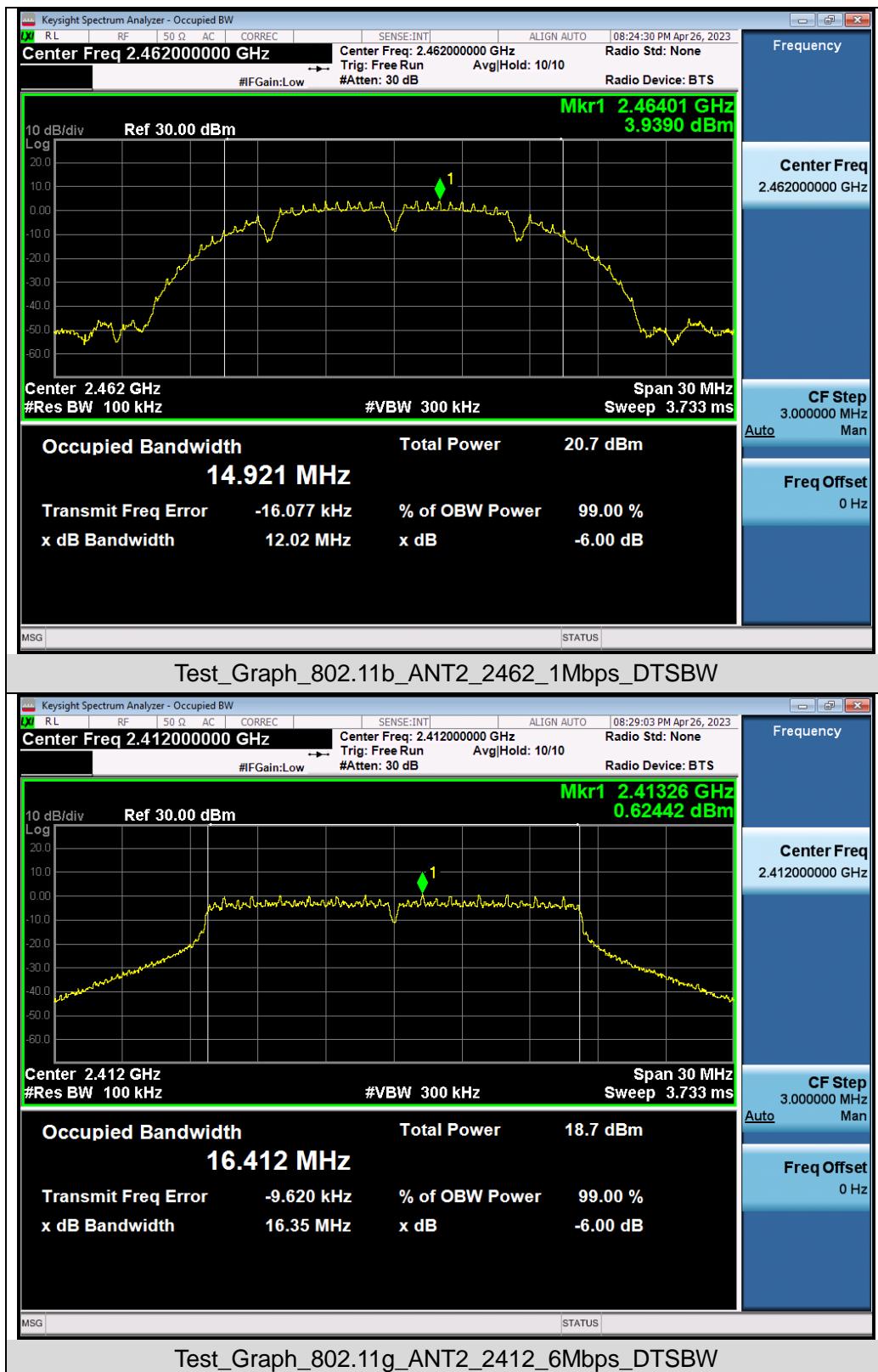


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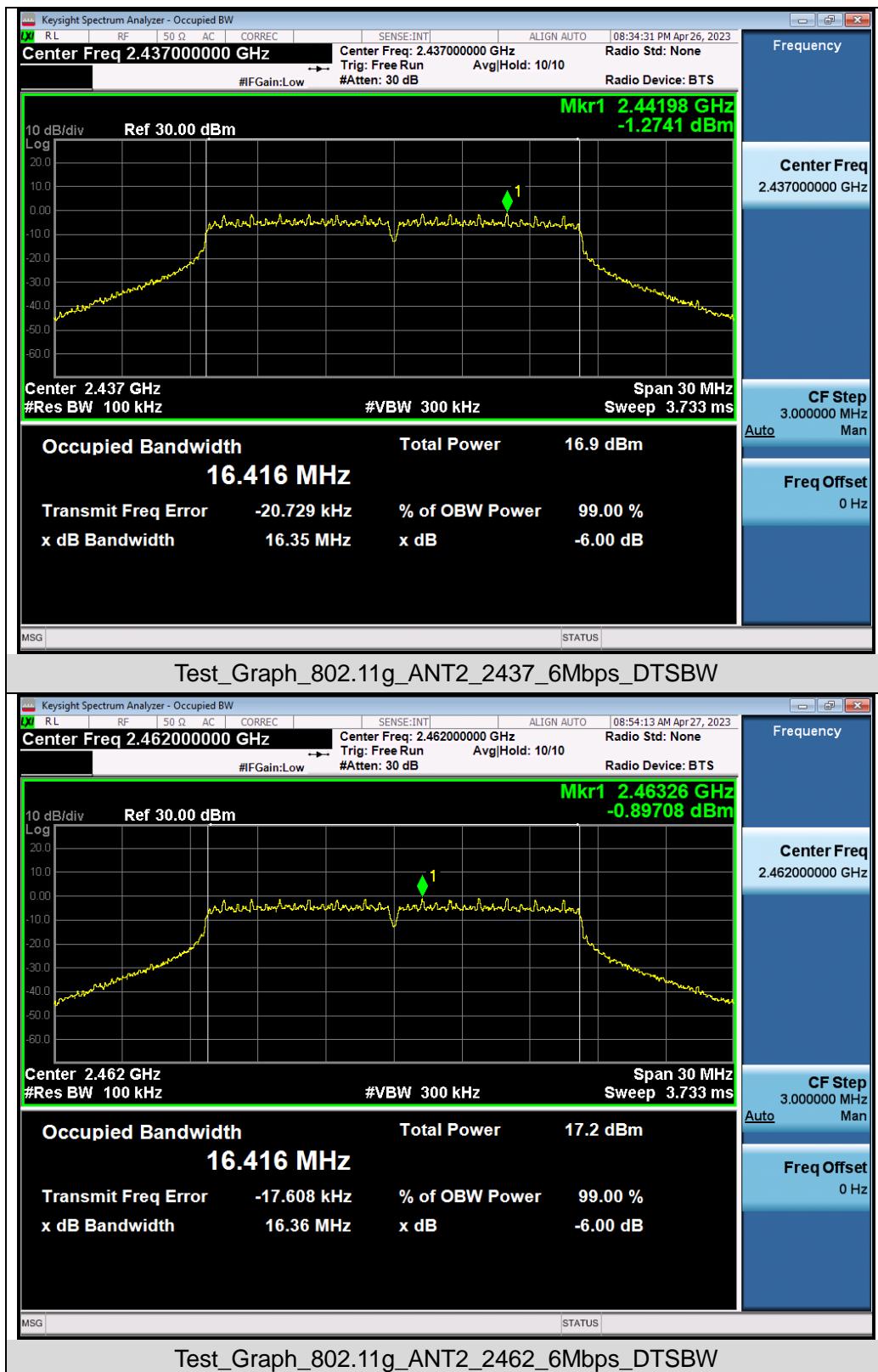


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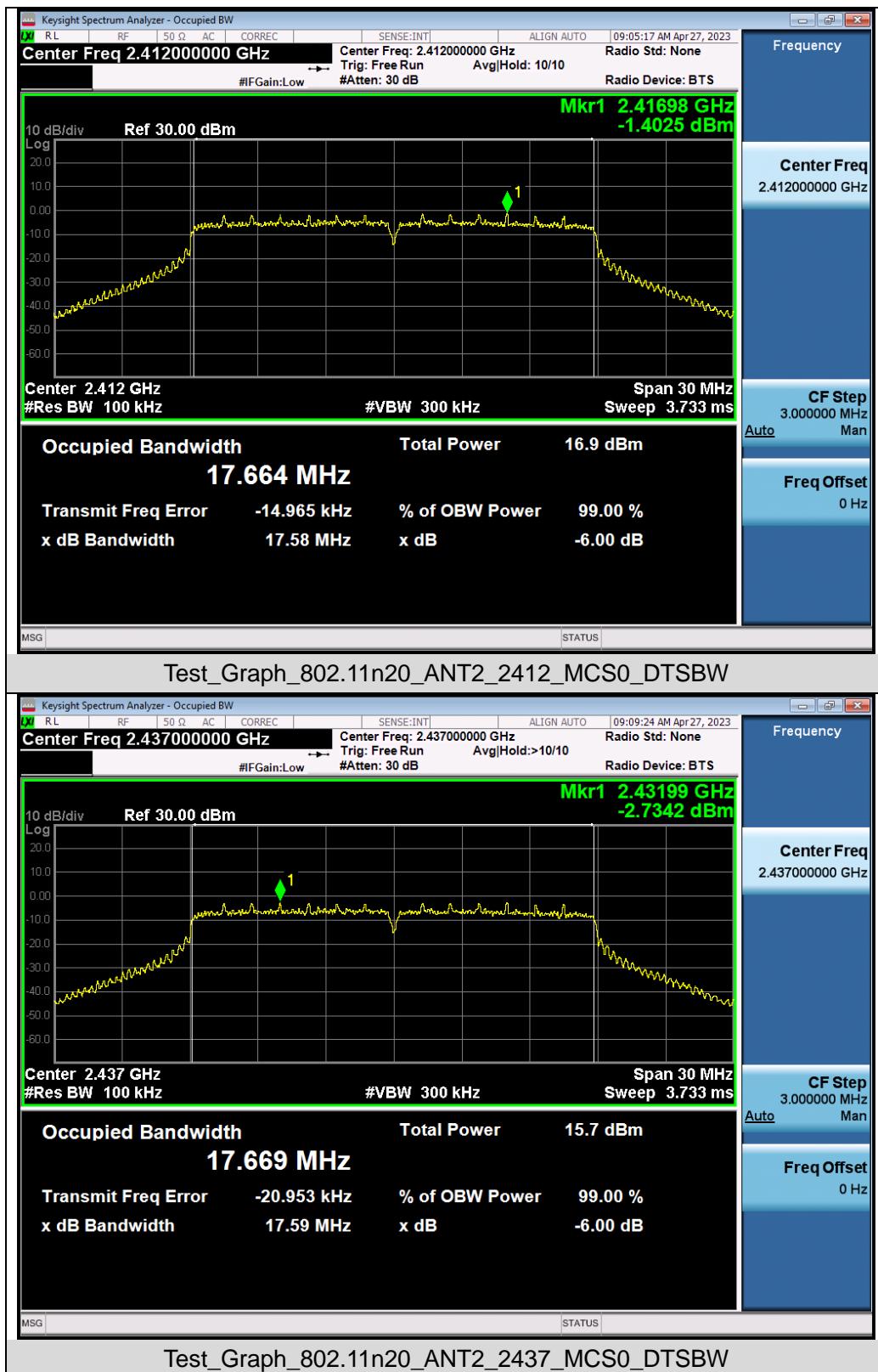


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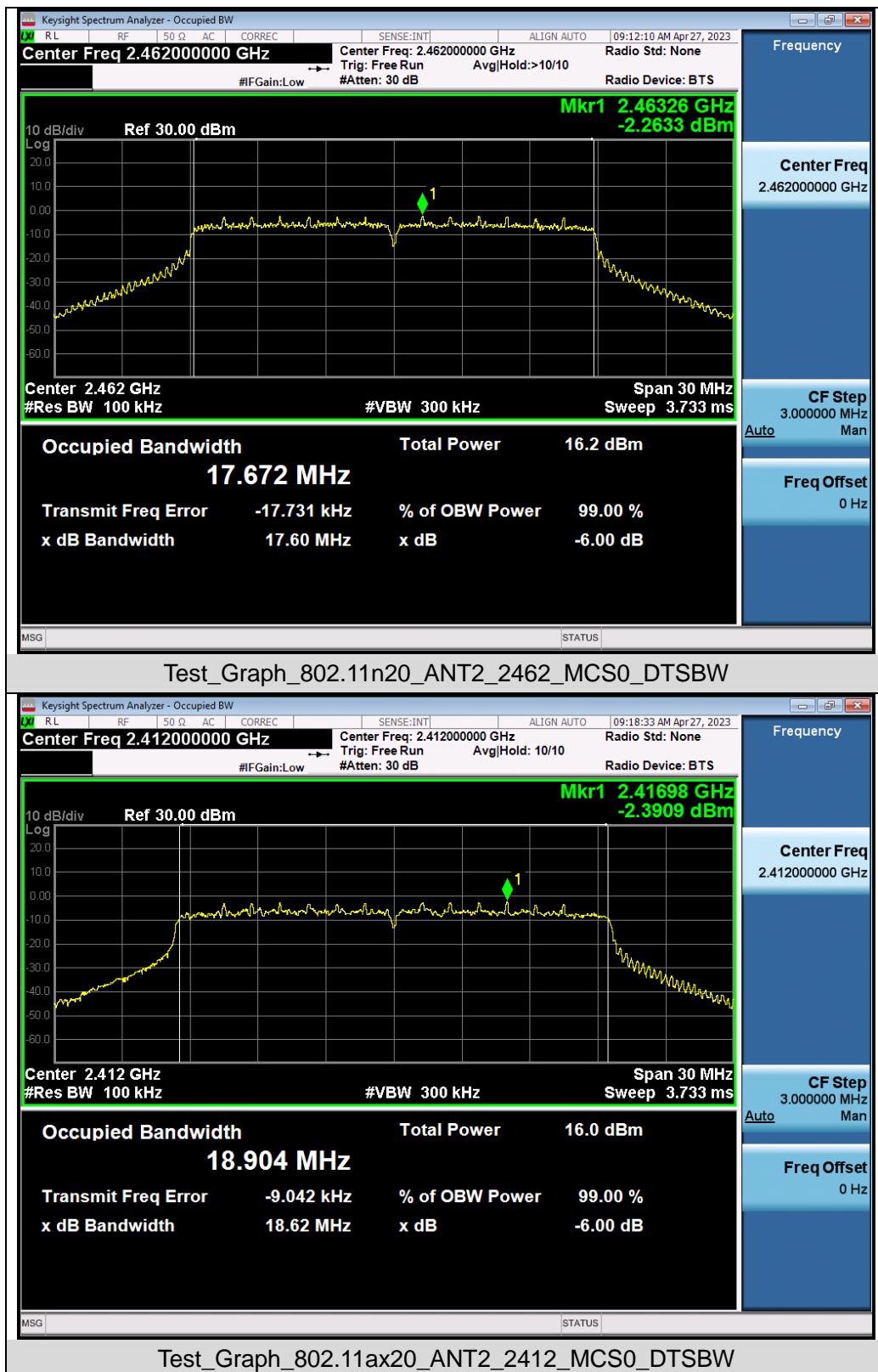


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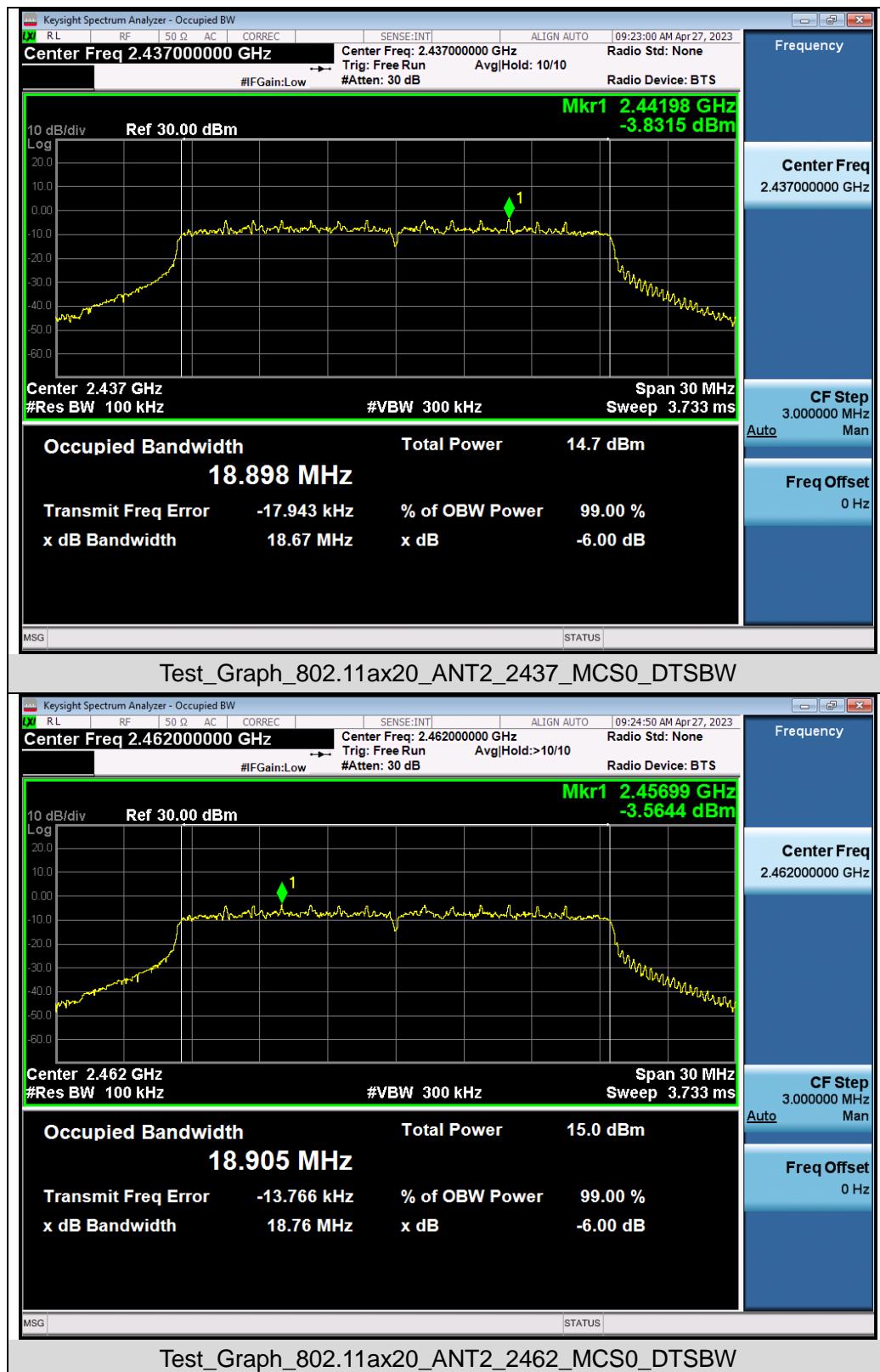


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## 9. CONDUCTED SPURIOUS EMISSION

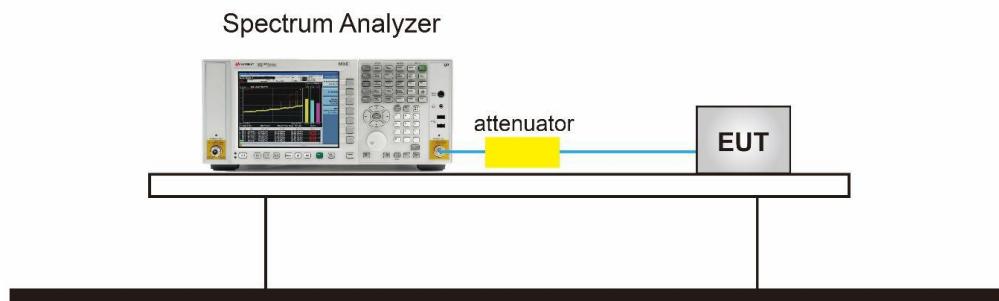
### 9.1 MEASUREMENT LIMIT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.  In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a)	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

### 9.2 MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
4. RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.(Test frequency below 1GHz)
5. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = peak.(Test frequency Above 1GHz)
6. Set SPA Trace 1 Max hold, then View.
7. Mark the maximum useless stray point and compare it with the limit value to record the result.

### 9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



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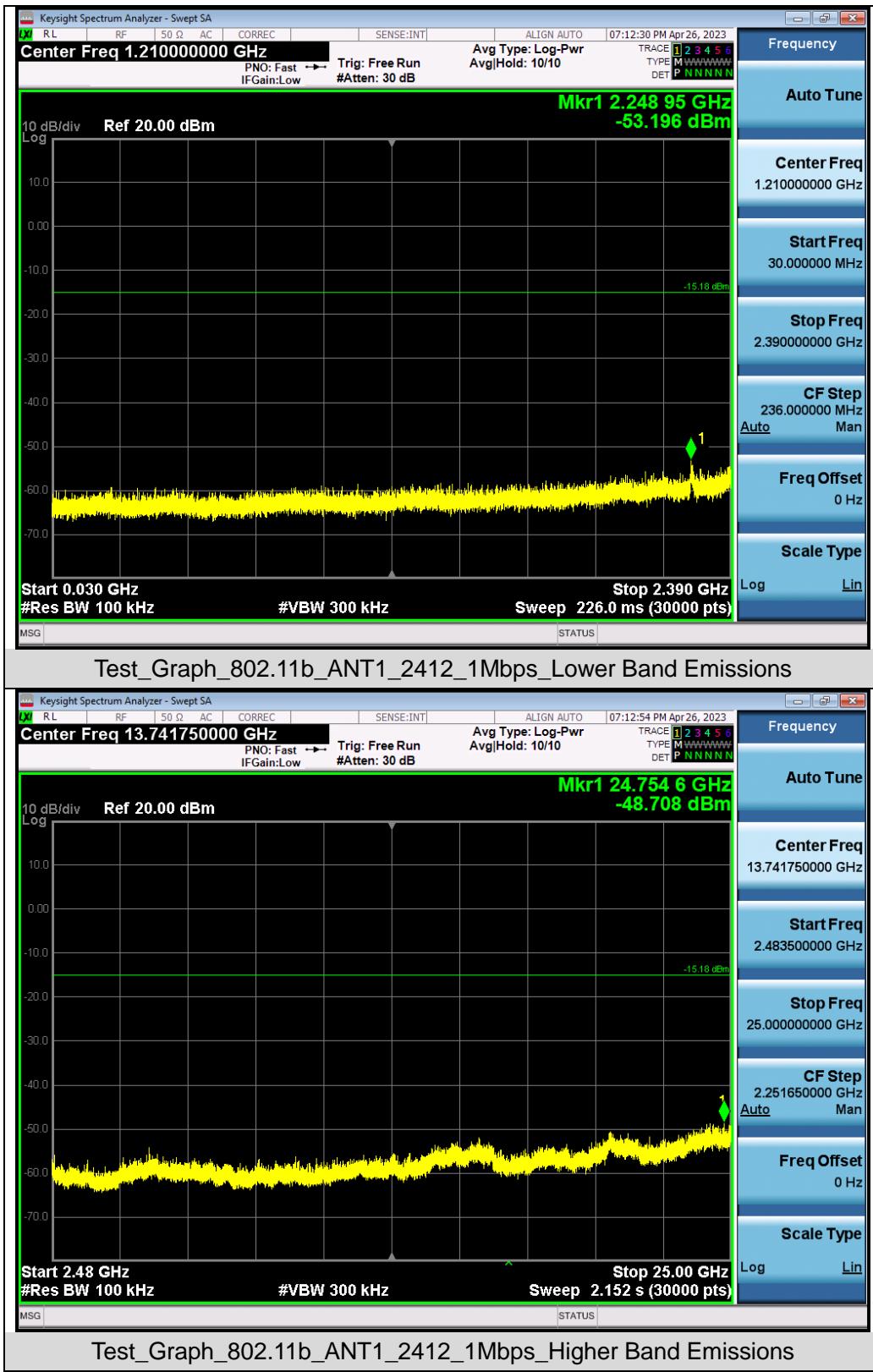
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## 9.4 MEASUREMENT RESULTS

### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

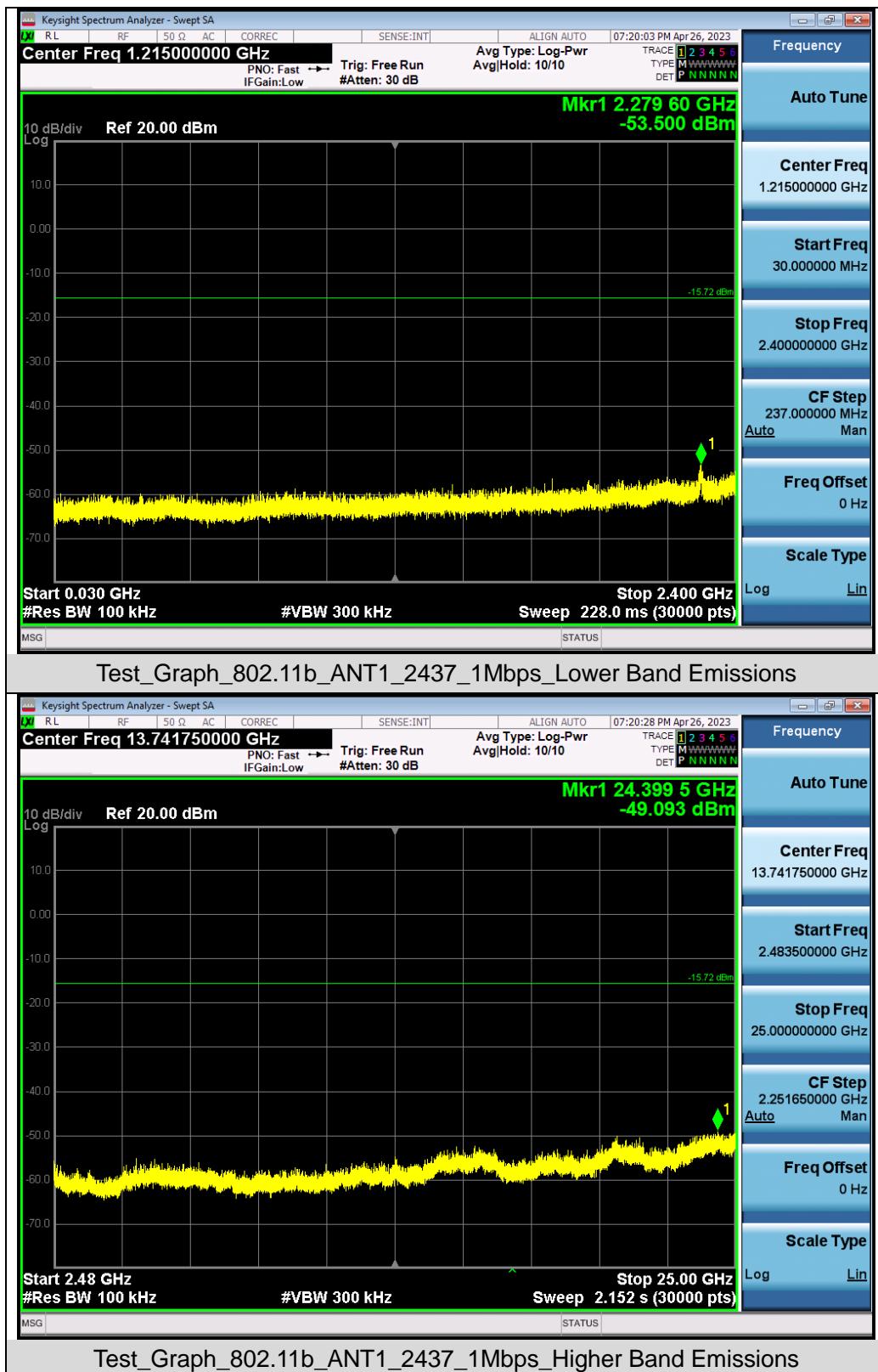


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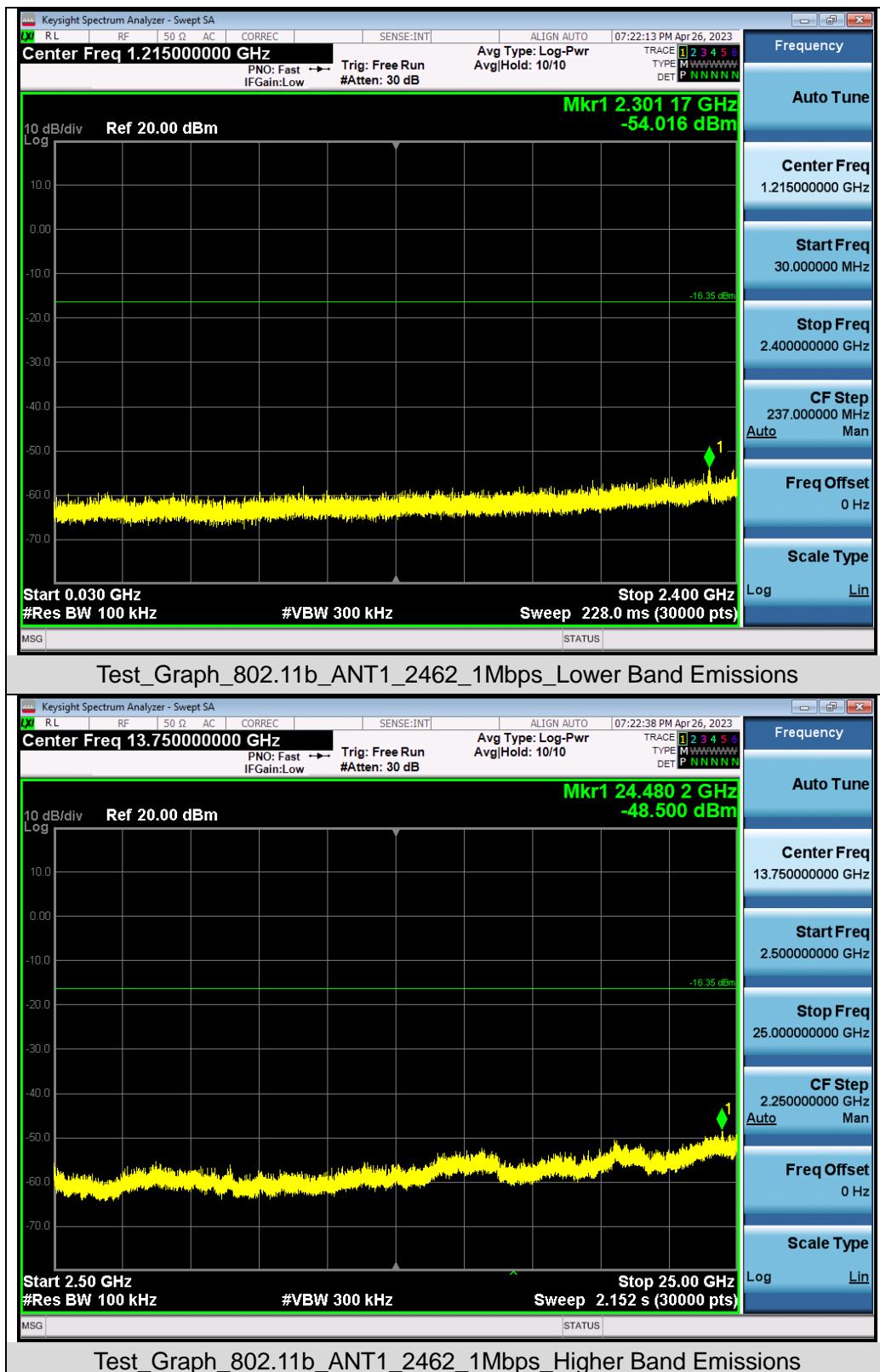


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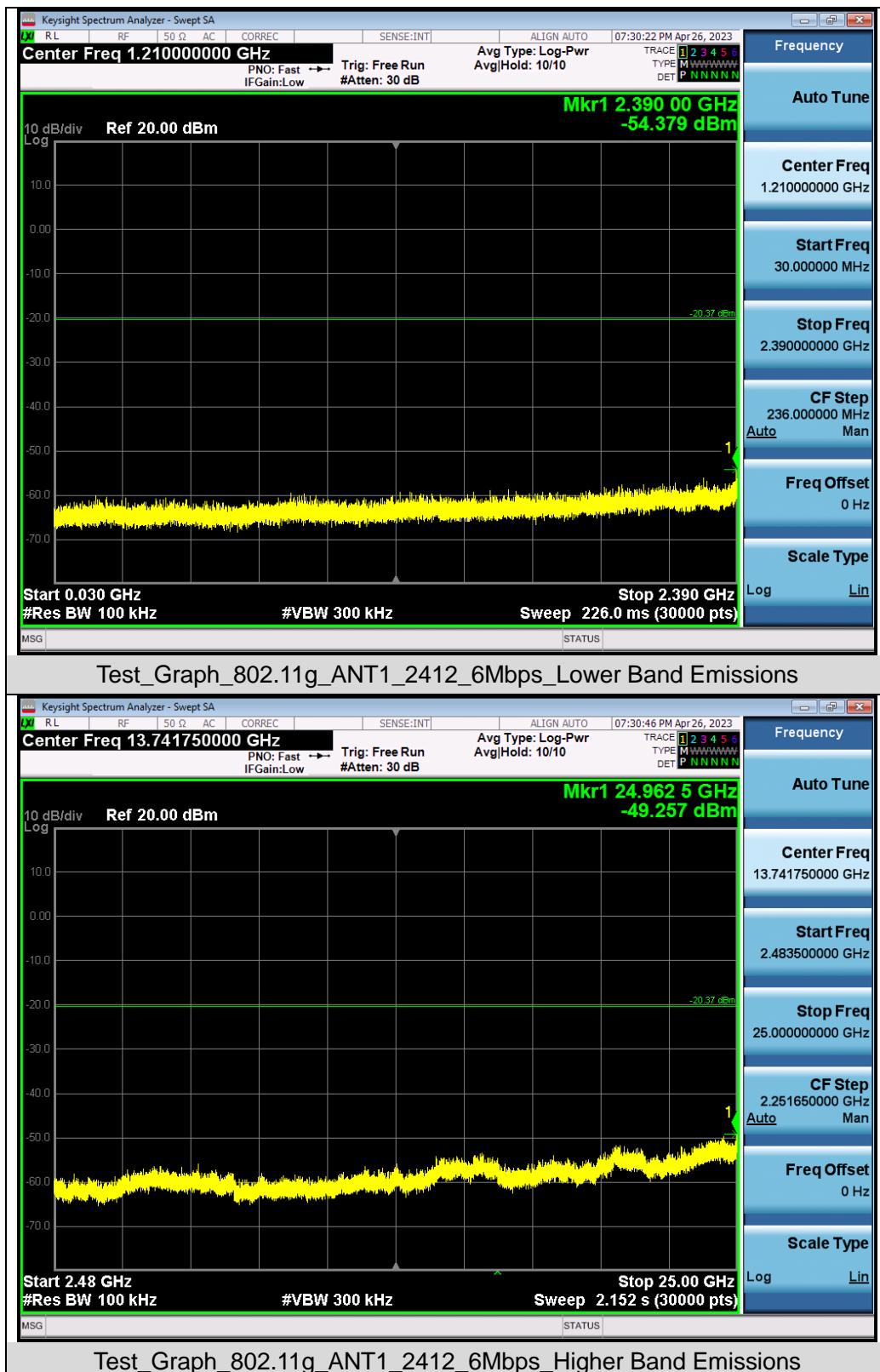


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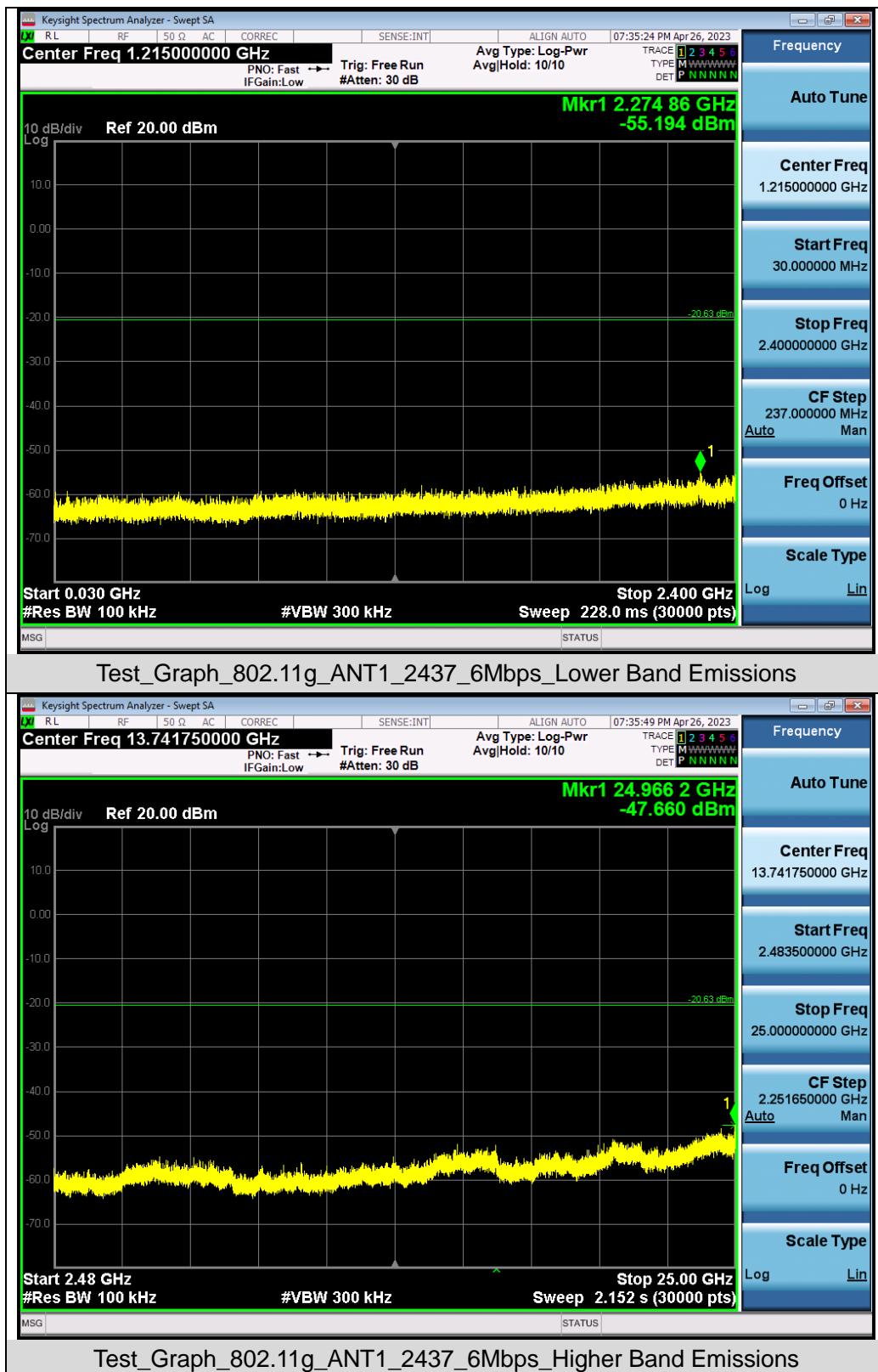


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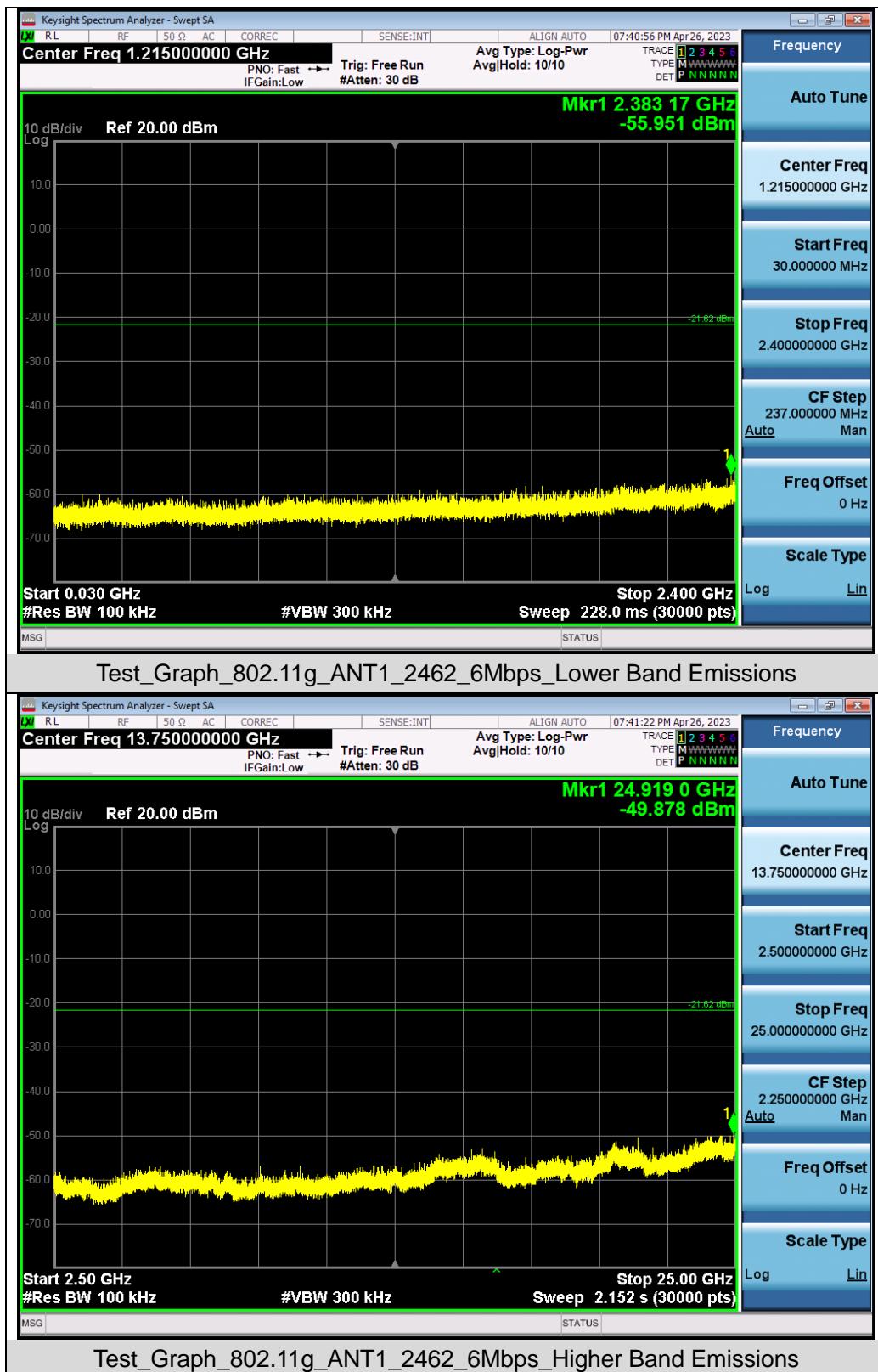


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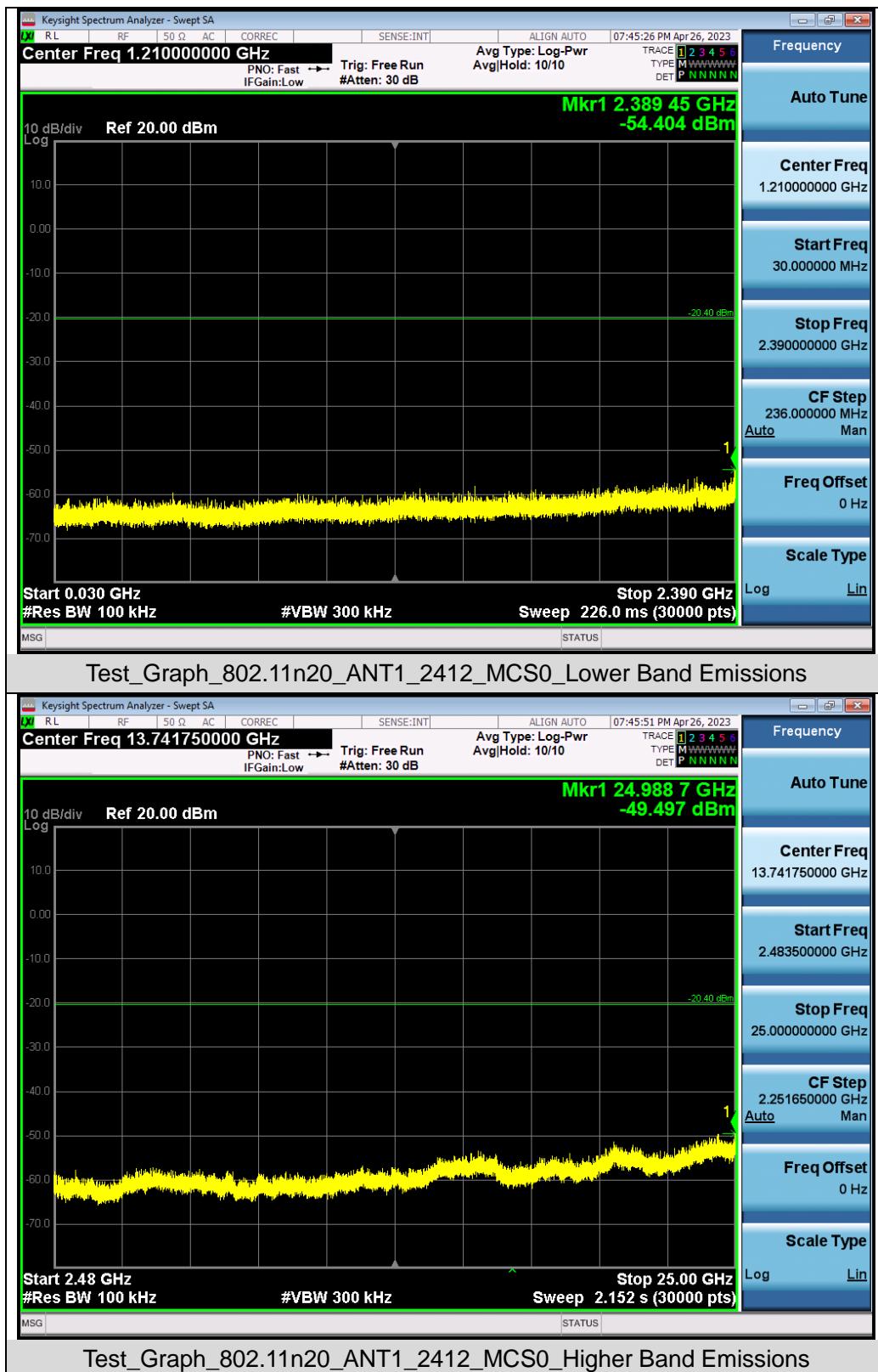


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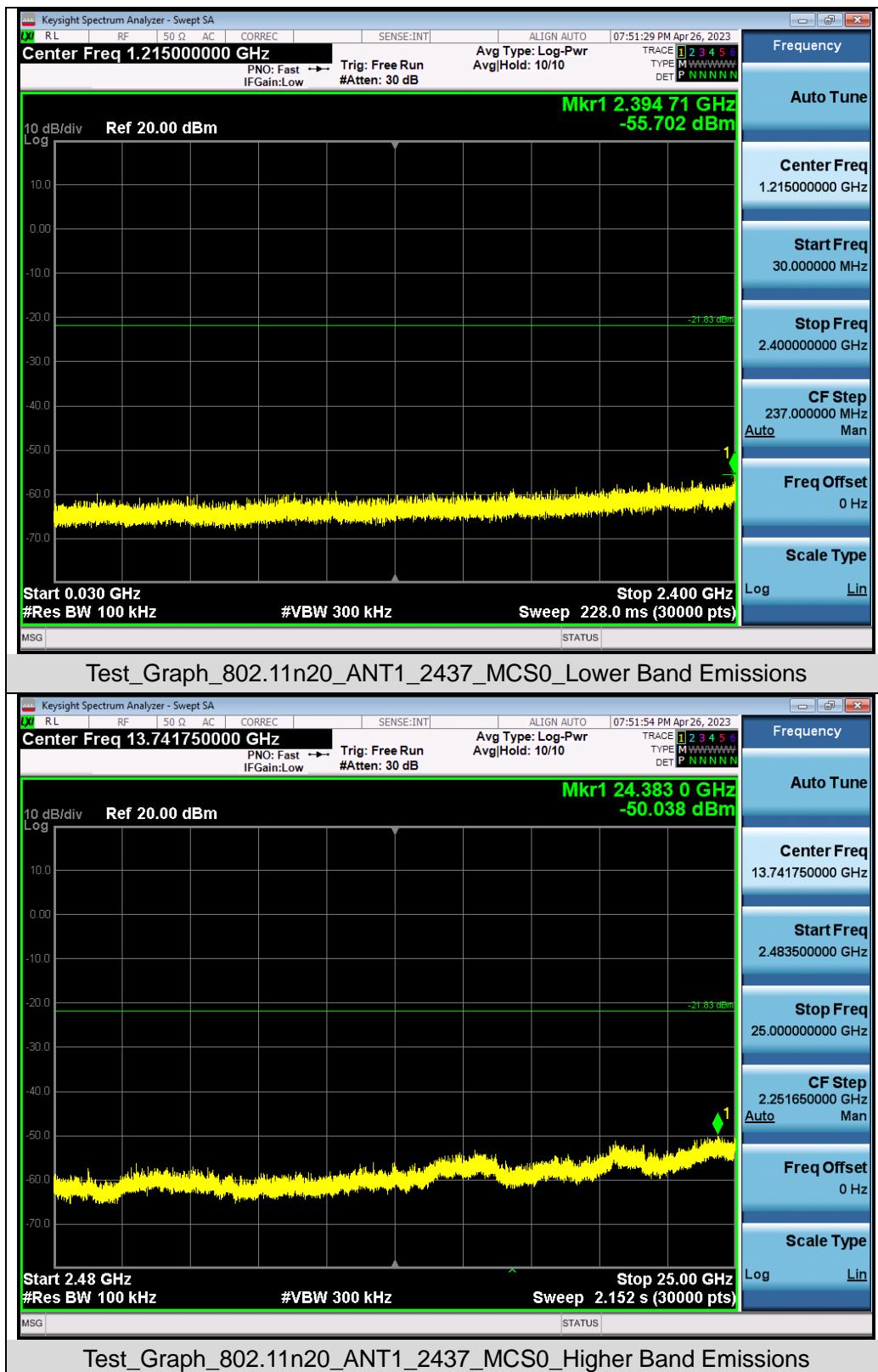


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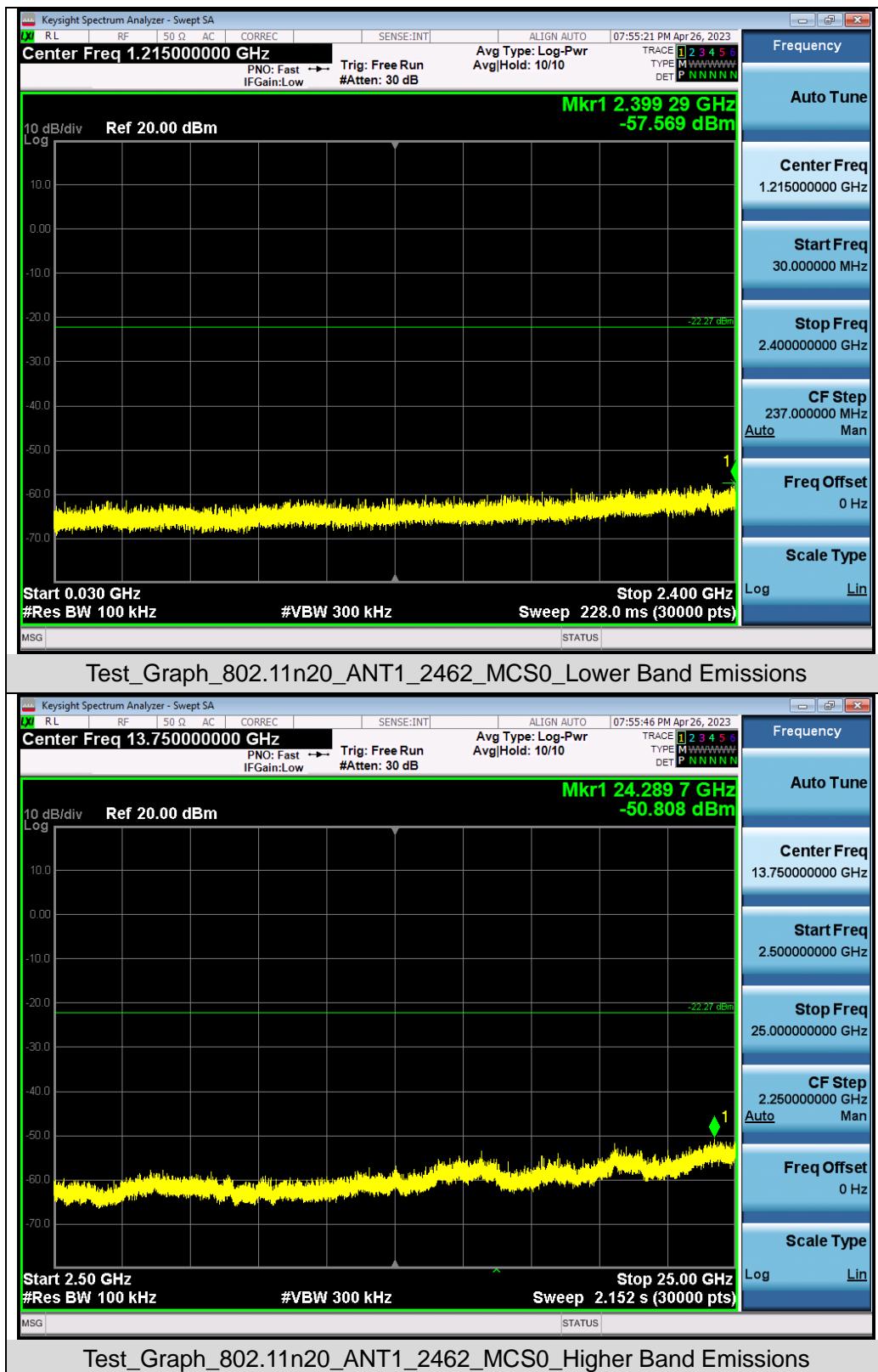


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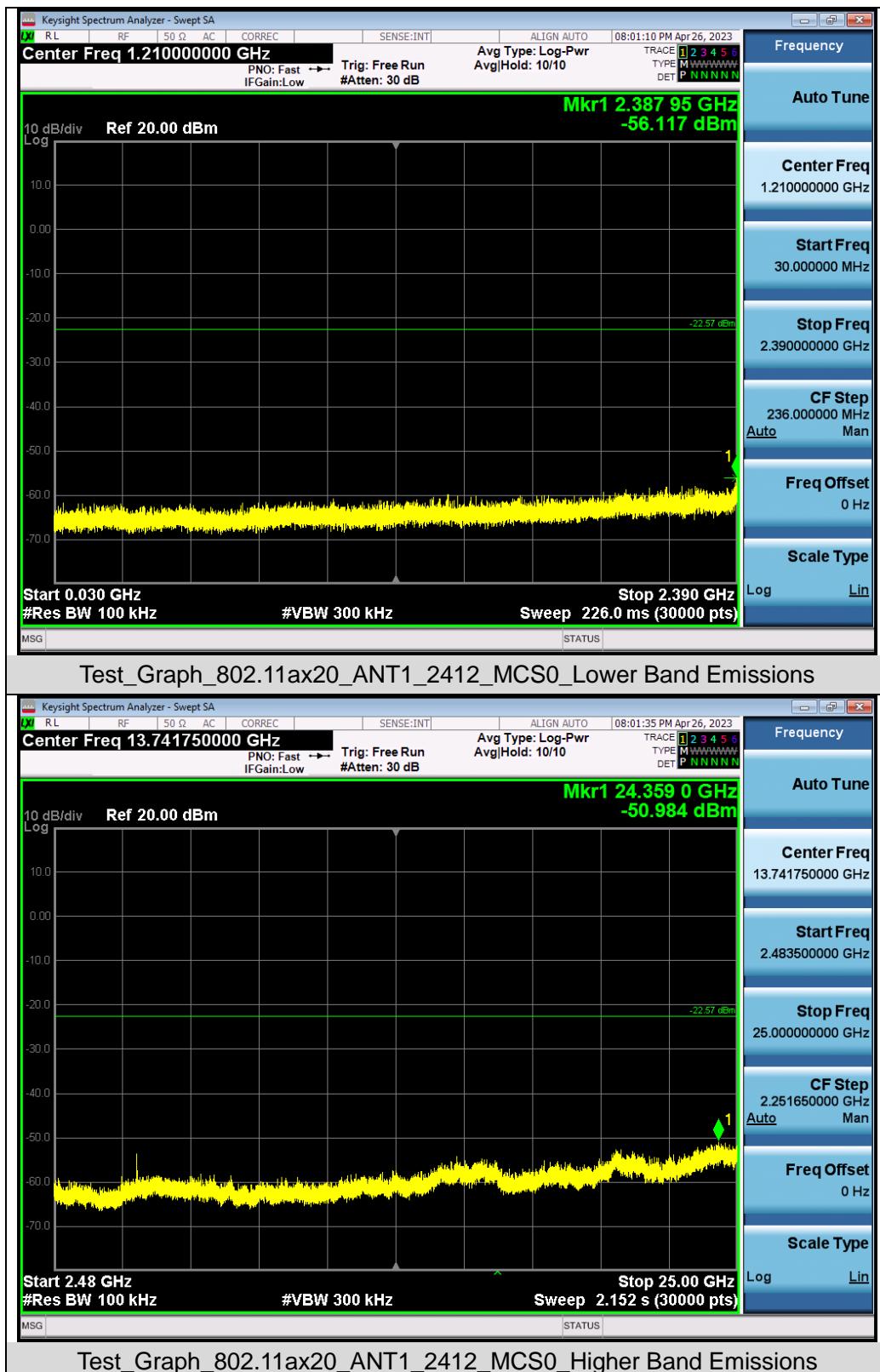


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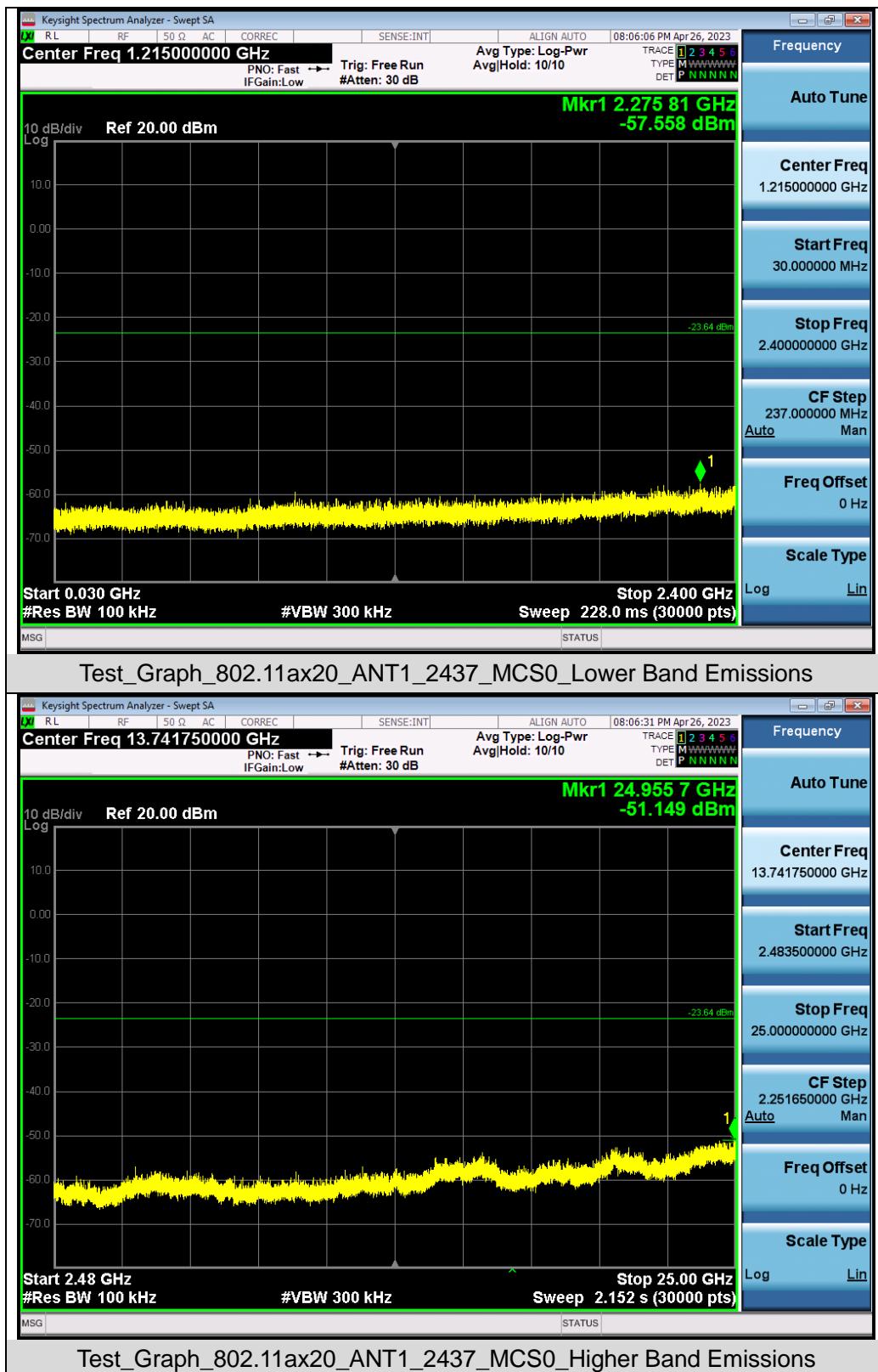


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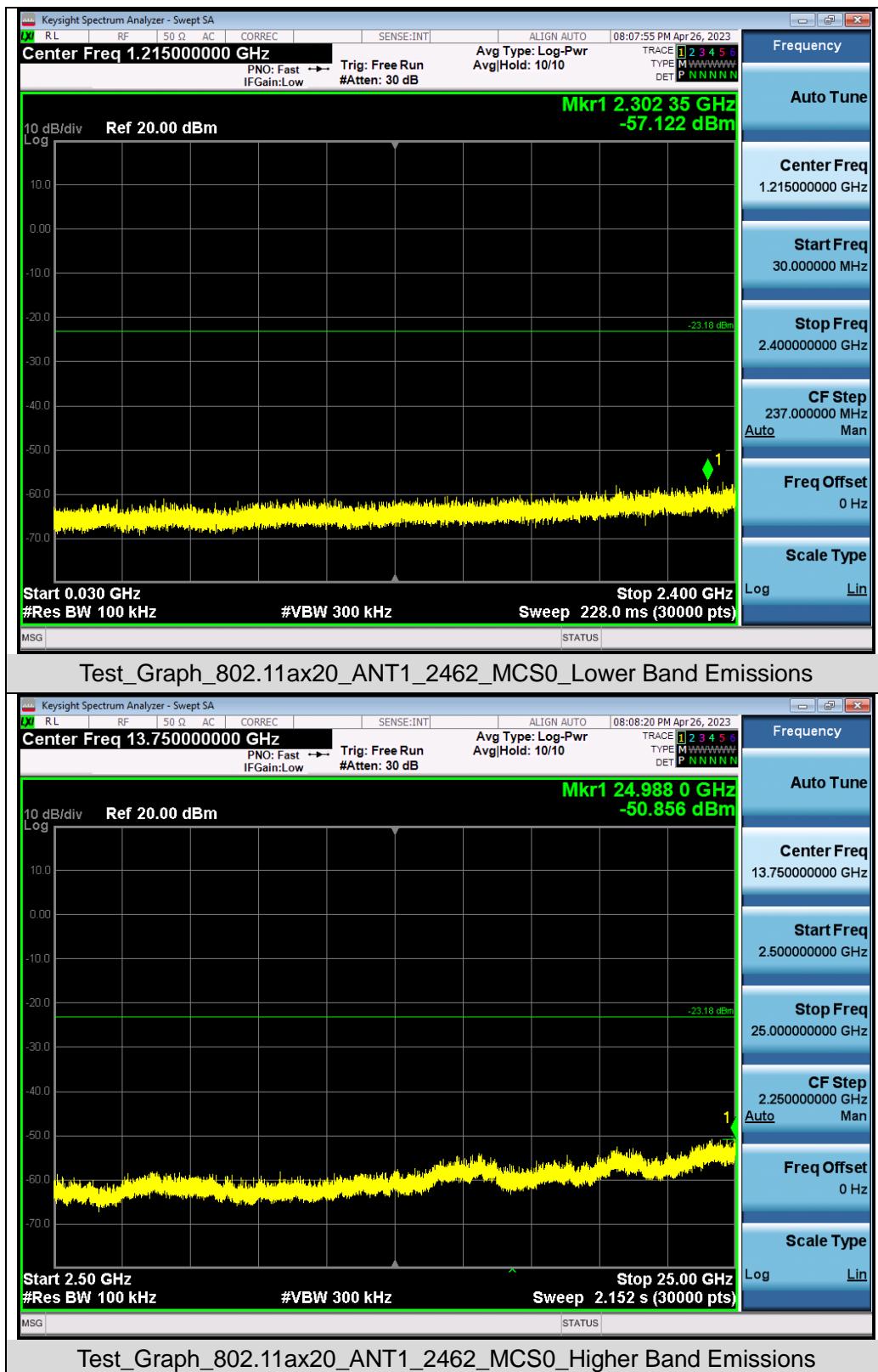


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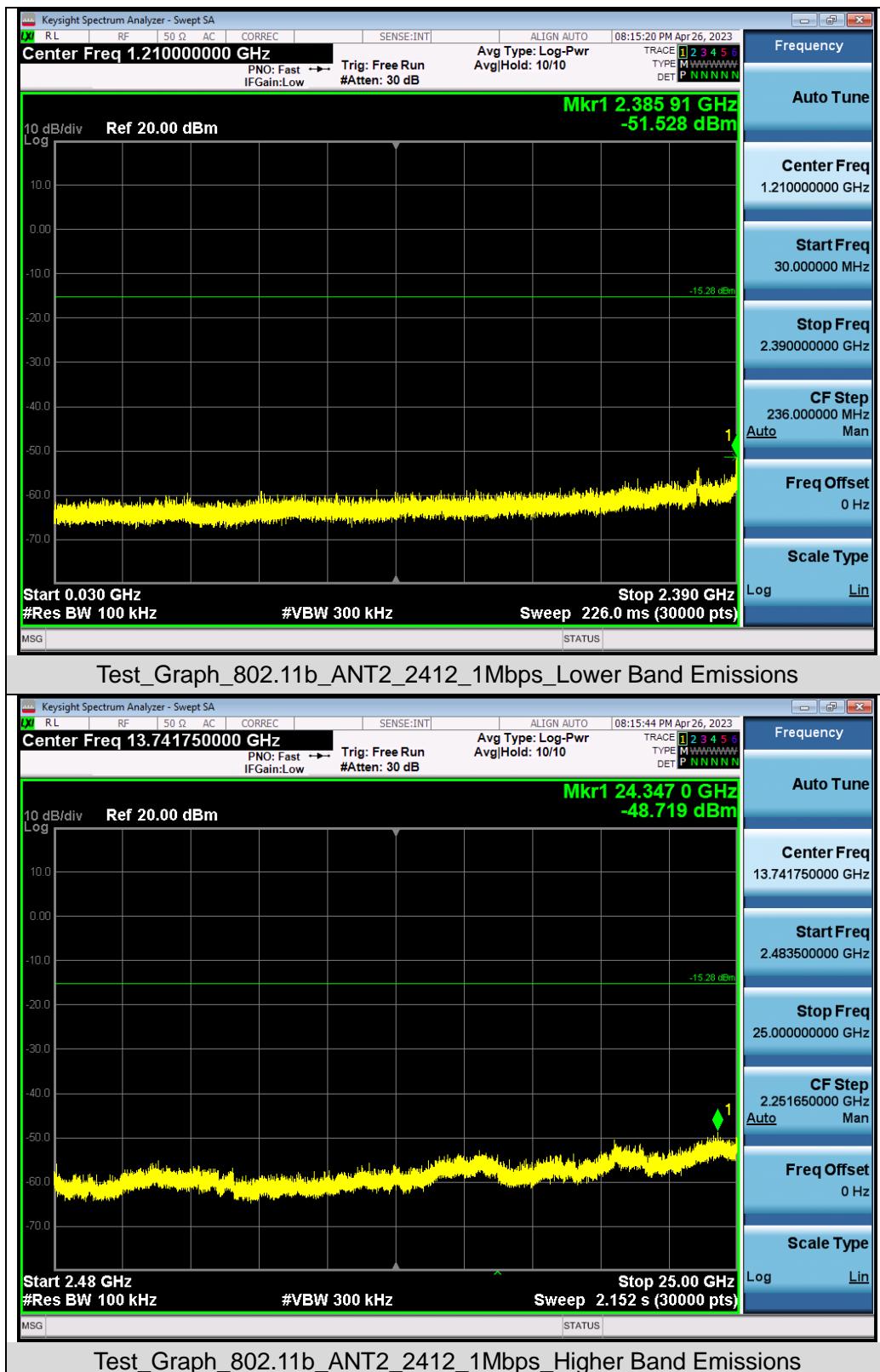


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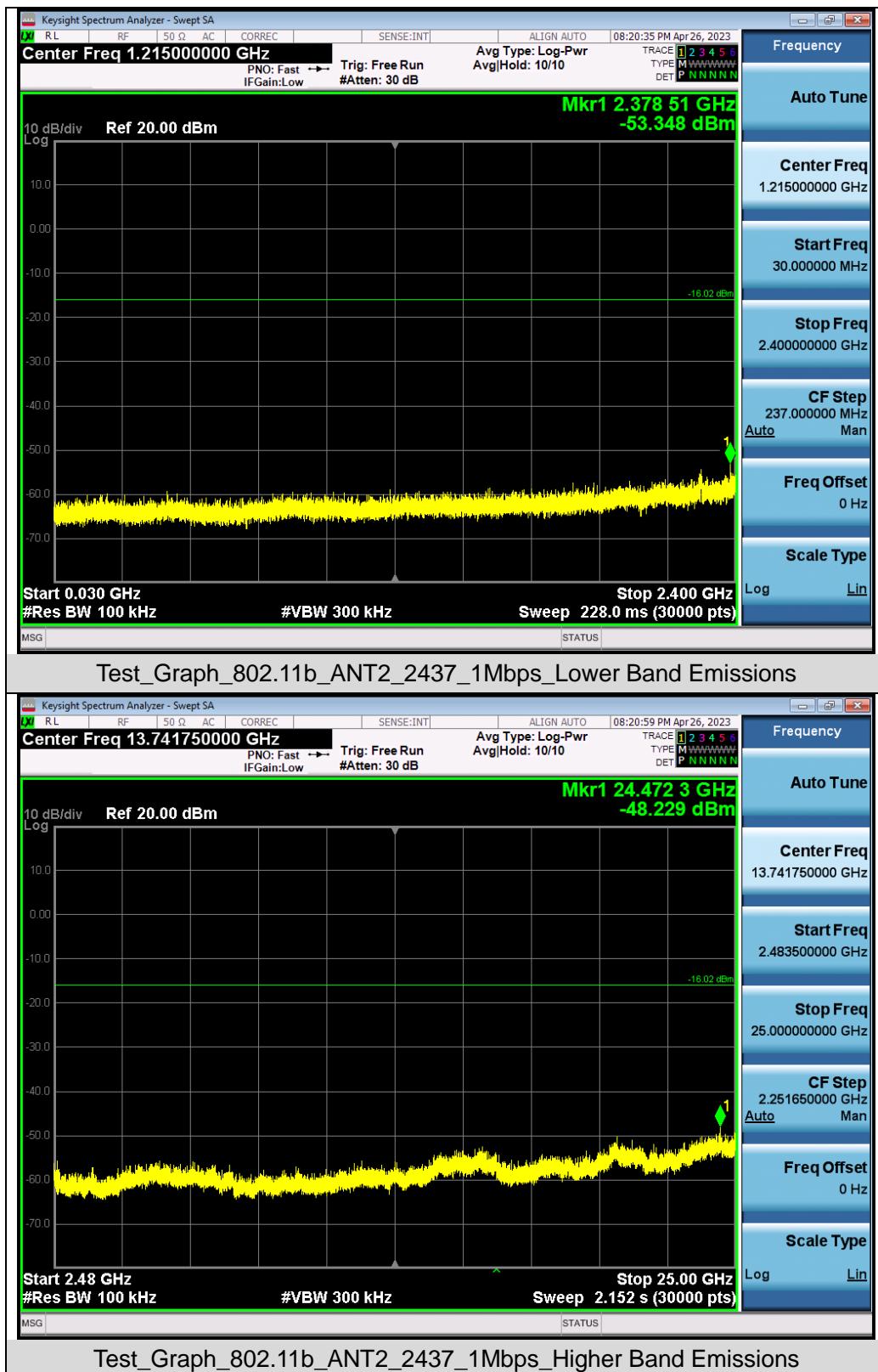


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