

# FCC Test Report

Report No.: AGC02762250704FR01

**FCC ID** : 2BQVU-N1

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Network Video Recorder

**BRAND NAME** : VNOZ

**MODEL NAME** : VG-N1, VG-N1 Pro, VG-N1 Hub, N1BM1-2, N1BM1-3, N1BM1-4, N1DU1-2, N1DU1-3, N1DU1-4, N1BQ7-2, N1BQ7-3, N1BQ7-4, N1DU1-2-4K, N1DU1-3-4K, N1DU1-4-4K, N1BQ7-2-4K, N1BQ7-3-4K, N1BQ7-4-4K

**APPLICANT** : Vnoz Innovations Limited

**DATE OF ISSUE** : Aug. 06, 2025

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

**REPORT VERSION** : V1.0

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 06, 2025	Valid	Initial Release

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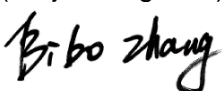
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## 1. General Information

Applicant	Vnoz Innovations Limited
Address	109B, Floor 1, Building 2, Zaimao Industrial Park, No. 12 Baoji Road, Xiangjiaotang Community, Bantian, Longgang District, Shenzhen, Guangdong Province, China
Manufacturer	Vnoz Innovations Limited
Address	109B, Floor 1, Building 2, Zaimao Industrial Park, No. 12 Baoji Road, Xiangjiaotang Community, Bantian, Longgang District, Shenzhen, Guangdong Province, China
Factory	Dongguan Brovotech Co., Ltd
Address	601, Building 3, Changxingzhigu Industrial Park, No. 16 Xinfeng Road, Changlong, Huangjiang, Dongguan
Product Designation	Network Video Recorder
Brand Name	VNOZ
Test Model	VG-N1
Series Model(s)	VG-N1 Pro, VG-N1 Hub, N1BM1-2, N1BM1-3, N1BM1-4, N1DU1-2, N1DU1-3, N1DU1-4, N1BQ7-2, N1BQ7-3, N1BQ7-4, N1DU1-2-4K, N1DU1-3-4K, N1DU1-4-4K, N1BQ7-2-4K, N1BQ7-3-4K, N1BQ7-4-4K
Difference Description	All the same except for the model name.
Date of receipt of test item	Jul. 15, 2025
Date of Test	Jul. 15, 2025 to Aug. 06, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-2.4GWLAN-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	Jack Gui	Aug. 06, 2025
	(Project Engineer)	
Reviewed By		
	Bibo Zhang	Aug. 06, 2025
	(Reviewer)	
Approved By		
	Angela Li	Aug. 06, 2025
	(Authorized Officer)	

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## 2. Product Information

### 2.1 Product Technical Description

Equipment Type	WLAN 2.4G
Frequency Band	2400MHz ~ 2483.5MHz
Operation Frequency	2412MHz ~ 2462MHz
Output Power (Average)	IEEE 802.11b:15.61dBm; IEEE 802.11g:12.58dBm; IEEE 802.11n(HT20):11.59dBm; IEEE 802.11n(HT40):8.32dBm IEEE 802.11ax (HE20):8.61dBm; IEEE 802.11ax (HE40):8.44dBm
Output Power (Peak)	IEEE 802.11b:18.20dBm; IEEE 802.11g:20.25dBm; IEEE 802.11n(HT20):19.52dBm; IEEE 802.11n(HT40):16.42dBm IEEE 802.11ax (HE20):18.61dBm; IEEE 802.11ax (HE40):17.20dBm
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,16QAM,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	MR0200
Software Version	V2.01.48.250422
Antenna Designation	Reverse SMA Antenna
Antenna Gain	-2.613dBi
Power Supply	DC 5V by adapter

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## 2.2 Table of Carrier Frequency

For 2412-2462MHz:

11 channels are provided for 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		

7 channels are provided for 802.11n(HT40)/ax (HE40):

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

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### 2.3 IEEE 802.11n Modulation Scheme

MCS Index	N <sub>ss</sub>	Modulation	R	N <sub>BPSC</sub>	N <sub>CBPS</sub>		N <sub>DBPS</sub>		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 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2BQVU-N1**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

## 2.5 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

## 2.6 Special Accessories

Refer to section 4.4.

## 2.7 Equipment Modifications

Not available for this EUT intended for grant.

## 2.8 Antenna Requirement

Standard Requirement
<p>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.</p> <p>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</p>
<p><b>EUT Antenna:</b>  The external antenna outside the device cannot be replaced by the user at will. The gain of the antenna is -2.613dBi.</p>

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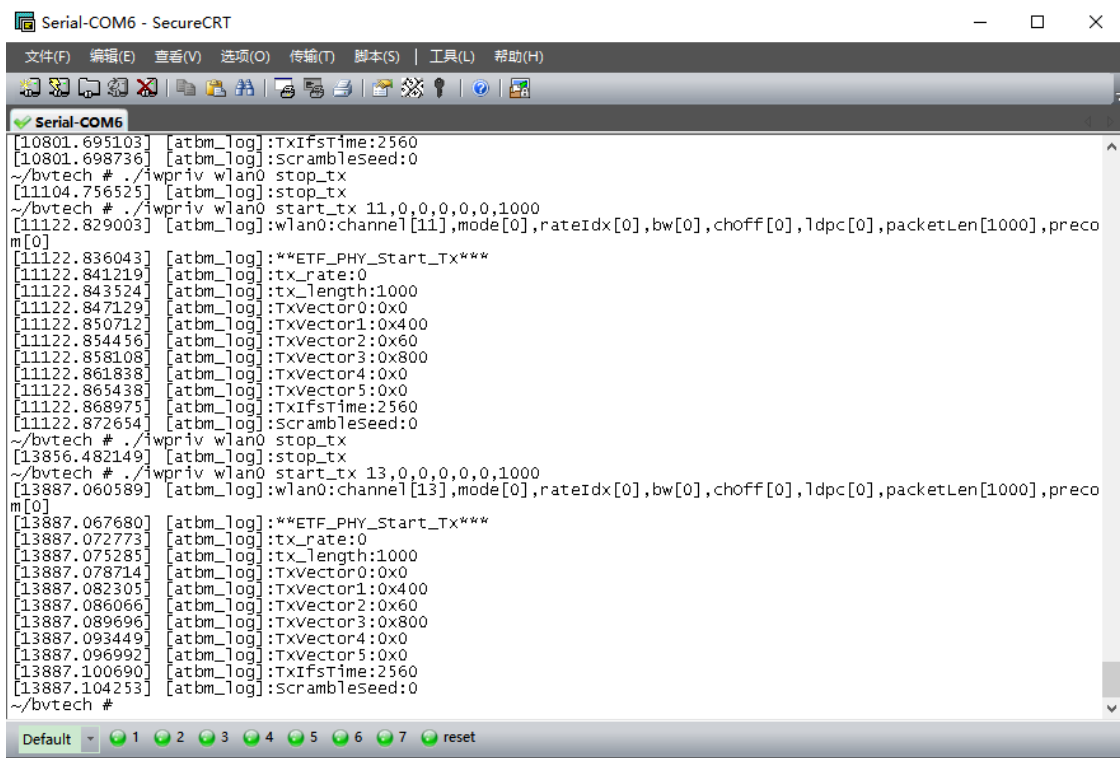
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## 2.9 Description of Test Software

### For IEEE 802.11 mode:

The test utility software used during testing was “SecureCRT”, and the version was “6.6.1”.

Software Setting Diagram



```

Serial-COM6 - SecureCRT
文件(F) 编辑(E) 查看(V) 选项(O) 传输(T) 脚本(S) | 工具(L) 帮助(H)

Serial-COM6
[10801.695103] [atbm_log]:TxIfsTime:2560
[10801.698736] [atbm_log]:ScrambleSeed:0
~/bvttech # ./iwpriv wlan0 stop_tx
[11104.756525] [atbm_log]:stop_tx
~/bvttech # ./iwpriv wlan0 start_tx 11,0,0,0,0,0,1000
[11122.829003] [atbm_log]:wlan0:channel[11],mode[0],rateIdx[0],bw[0],chhoff[0],ldpc[0],packetLen[1000],preco
m[0]
[11122.836043] [atbm_log]:**ETF_PHY_Start_Tx***
[11122.841219] [atbm_log]:tx_rate:0
[11122.843524] [atbm_log]:tx_length:1000
[11122.847129] [atbm_log]:TxVector0:0x0
[11122.850712] [atbm_log]:TxVector1:0x400
[11122.854456] [atbm_log]:TxVector2:0x60
[11122.858108] [atbm_log]:TxVector3:0x800
[11122.861838] [atbm_log]:TxVector4:0x0
[11122.865438] [atbm_log]:TxVector5:0x0
[11122.868975] [atbm_log]:TxIfsTime:2560
[11122.872654] [atbm_log]:ScrambleSeed:0
~/bvttech # ./iwpriv wlan0 stop_tx
[13856.482149] [atbm_log]:stop_tx
~/bvttech # ./iwpriv wlan0 start_tx 13,0,0,0,0,0,1000
[13887.060589] [atbm_log]:wlan0:channel[13],mode[0],rateIdx[0],bw[0],chhoff[0],ldpc[0],packetLen[1000],preco
m[0]
[13887.067680] [atbm_log]:**ETF_PHY_Start_Tx***
[13887.072773] [atbm_log]:tx_rate:0
[13887.075285] [atbm_log]:tx_length:1000
[13887.078714] [atbm_log]:TxVector0:0x0
[13887.082305] [atbm_log]:TxVector1:0x400
[13887.086066] [atbm_log]:TxVector2:0x60
[13887.089696] [atbm_log]:TxVector3:0x800
[13887.093449] [atbm_log]:TxVector4:0x0
[13887.096992] [atbm_log]:TxVector5:0x0
[13887.100690] [atbm_log]:TxIfsTime:2560
[13887.104253] [atbm_log]:ScrambleSeed:0
~/bvttech #

Default 1 2 3 4 5 6 7 reset
  
```

Test Mode	Channel	Power Index
802.11b	L/M/H	17
802.11g	L/M/H	14
802.11n-HT20	L/M/H	13
802.11ax-HE20	L/M/H	10
802.11n-HT40	L/M/H	10
802.11ax-HE40	L/M/H	10

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### 3. Test Environment

#### 3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842 (CAB identifier: CN0063)**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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### 3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106

### 3.4 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded 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	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
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	$U_c = \pm 2 \%$
Uncertainty of Duty Cycle	$U_c = \pm 2 \%$

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### 3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-01-14	2026-01-13
<input checked="" type="checkbox"/>	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2025-01-30	2026-01-29
<input checked="" type="checkbox"/>	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
<input checked="" type="checkbox"/>	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A
<input checked="" type="checkbox"/>	AGC-ER-E091	DC Power Supply	AID EKESI	IT6720	800103030787810080	2024-03-28	2026-03-27

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	100096	2025-01-14	2026-01-13
<input type="checkbox"/>	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
<input checked="" type="checkbox"/>	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
<input checked="" type="checkbox"/>	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
<input checked="" type="checkbox"/>	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
<input checked="" type="checkbox"/>	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
<input checked="" type="checkbox"/>	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
<input checked="" type="checkbox"/>	AGC-EM-A119	2.4GHz Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
<input checked="" type="checkbox"/>	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
<input type="checkbox"/>	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
<input checked="" type="checkbox"/>	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	DC-6GZ	2024-02-01	2026-01-31
<input checked="" type="checkbox"/>	AGC-EM-E023	AMN	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
<input checked="" type="checkbox"/>	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
<input type="checkbox"/>	AGC-EM-S004	RE Test System	Tonscend	TS <sup>+</sup> Ver2.1(JS32-RE)	4.0.0.0
<input checked="" type="checkbox"/>	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
<input checked="" type="checkbox"/>	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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## 4. System Test Configuration

### 4.1 EUT Configuration

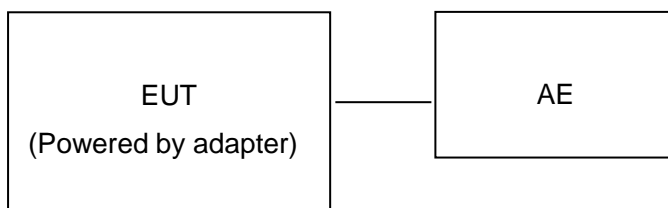
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 4.2 EUT Exercise

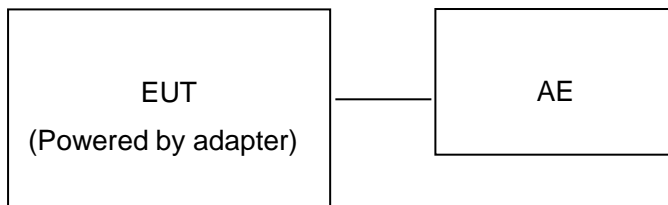
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

### 4.3 Configuration of Tested System

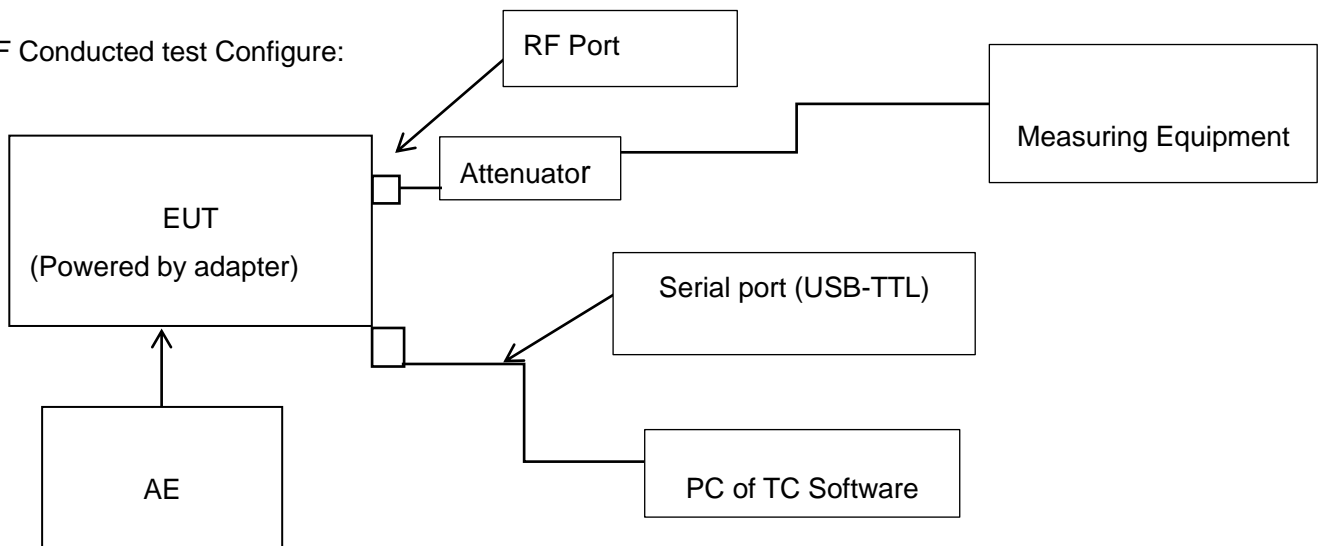
Radiated Emission Configure:



Conducted Emission Configure:



RF Conducted test Configure:



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#### 4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	USB Cable	--	--	--	--
2	Redmi Notebook PC	Redmi	XMA2002-AB	N/A	N/A

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Adapter	SHENZHEN TIANYIN ELECTRONICS CO., LTD.	TPA-418G050200UU01	Input(AC):100-240V 50/60Hz 0.3A Output(DC):5V 2.0A 10W	1.2m unshielded

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#### 4.5 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
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.247 (d)&15.209	Radiated Spurious Emission	Pass
7	§15.207	AC Power Line Conducted Emission	Pass

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## 5. 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 Test Cases	Mode 1: 802.11b_TX CH01_2412 MHz_1 Mbps(Powered by adapter) Mode 2: 802.11b_TX CH06_2437 MHz_1 Mbps(Powered by adapter) Mode 3: 802.11b_TX CH11_2462 MHz_1 Mbps(Powered by adapter) Mode 4: 802.11g_TX CH01_2412 MHz_6 Mbps(Powered by adapter) Mode 5: 802.11g_TX CH06_2437 MHz_6 Mbps(Powered by adapter) Mode 6: 802.11g_TX CH11_2462 MHz_6 Mbps (Powered by adapter) Mode 7: 802.11n-HT20_TX CH01_2412 MHz_MCS0 Mbps(Powered by adapter) Mode 8: 802.11n-HT20_TX CH06_2437 MHz_ MCS0 Mbps(Powered by adapter) Mode 9: 802.11n-HT20_TX CH11_2462 MHz_ MCS0 Mbps(Powered by adapter) Mode 10: 802.11n-HT40_TX CH03_2422 MHz_MCS0 Mbps(Powered by adapter) Mode 11: 802.11n-HT40_TX CH06_2437 MHz_ MCS0 Mbps(Powered by adapter) Mode 12: 802.11n-HT40_TX CH09_2452 MHz_ MCS0 Mbps(Powered by adapter) Mode 13: 802.11ax-HE20_TX CH01_2412 MHz_MCS0 Mbps(Powered by adapter) Mode 14: 802.11ax-HE20_TX CH06_2437 MHz_ MCS0 Mbps(Powered by adapter) Mode 15: 802.11ax-HE20_TX CH11_2462 MHz_ MCS0 Mbps(Powered by adapter) Mode 16: 802.11ax-HE40_TX CH03_2422 MHz_MCS0 Mbps(Powered by adapter) Mode 17: 802.11ax-HE40_TX CH06_2437 MHz_ MCS0 Mbps(Powered by adapter) Mode 18: 802.11ax-HE40_TX CH09_2452 MHz_ MCS0 Mbps(Powered by adapter)
Conducted Test Cases	Mode 1: 802.11b_TX CH01_2412 MHz_1 Mbps(Powered by adapter) Mode 2: 802.11b_TX CH06_2437 MHz_1 Mbps(Powered by adapter) Mode 3: 802.11b_TX CH11_2462 MHz_1 Mbps(Powered by adapter) Mode 4: 802.11g_TX CH01_2412 MHz_6 Mbps(Powered by adapter) Mode 5: 802.11g_TX CH06_2437 MHz_6 Mbps(Powered by adapter) Mode 6: 802.11g_TX CH11_2462 MHz_6 Mbps (Powered by adapter) Mode 7: 802.11n-HT20_TX CH01_2412 MHz_MCS0 Mbps(Powered by adapter) Mode 8: 802.11n-HT20_TX CH06_2437 MHz_ MCS0 Mbps(Powered by adapter) Mode 9: 802.11n-HT20_TX CH11_2462 MHz_ MCS0 Mbps(Powered by adapter) Mode 10: 802.11n-HT40_TX CH03_2422 MHz_MCS0 Mbps(Powered by adapter) Mode 11: 802.11n-HT40_TX CH06_2437 MHz_ MCS0 Mbps(Powered by adapter) Mode 12: 802.11n-HT40_TX CH09_2452 MHz_ MCS0 Mbps(Powered by adapter) Mode 13: 802.11ax-HE20_TX CH01_2412 MHz_MCS0 Mbps(Powered by adapter) Mode 14: 802.11ax-HE20_TX CH06_2437 MHz_ MCS0 Mbps(Powered by adapter) Mode 15: 802.11ax-HE20_TX CH11_2462 MHz_ MCS0 Mbps(Powered by adapter) Mode 16: 802.11ax-HE40_TX CH03_2422 MHz_MCS0 Mbps(Powered by adapter) Mode 17: 802.11ax-HE40_TX CH06_2437 MHz_ MCS0 Mbps(Powered by adapter) Mode 18: 802.11ax-HE40_TX CH09_2452 MHz_ MCS0 Mbps(Powered by adapter)
AC Conducted Emission	Mode 1: 2.4G WLAN Link + USB Cable (Powered by adapter)

### Note:

- The 802.11ax mode is only tested and evaluated at Full RU bandwidth.
- For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
4. The manufacturer of RF external cable claims that the cable loss is 0.5dB, and the cable loss and attenuator have been compensated into the Corrections Configuration of measuring equipment.
5. Input correction factor includes external cable loss and attenuator amplitude compensation. The formula is:  
Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)

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## 6. Duty Cycle Measurement

2.4GHz WLAN (DTS) operation is possible in 20MHz, and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Average. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	Data rates (Mbps)	Duty Cycle (%)	Duty Cycle Factor (dB)
IEEE 802.11b	1	99.88	--
IEEE 802.11g	6	98.77	--
IEEE 802.11n-HT20	MCS0	98.68	--
IEEE 802.11n-HT40	MCS0	97.60	0.11
IEEE 802.11ax-HE20	MCS0	98.40	--
IEEE 802.11ax-HE40	MCS0	97.09	0.13

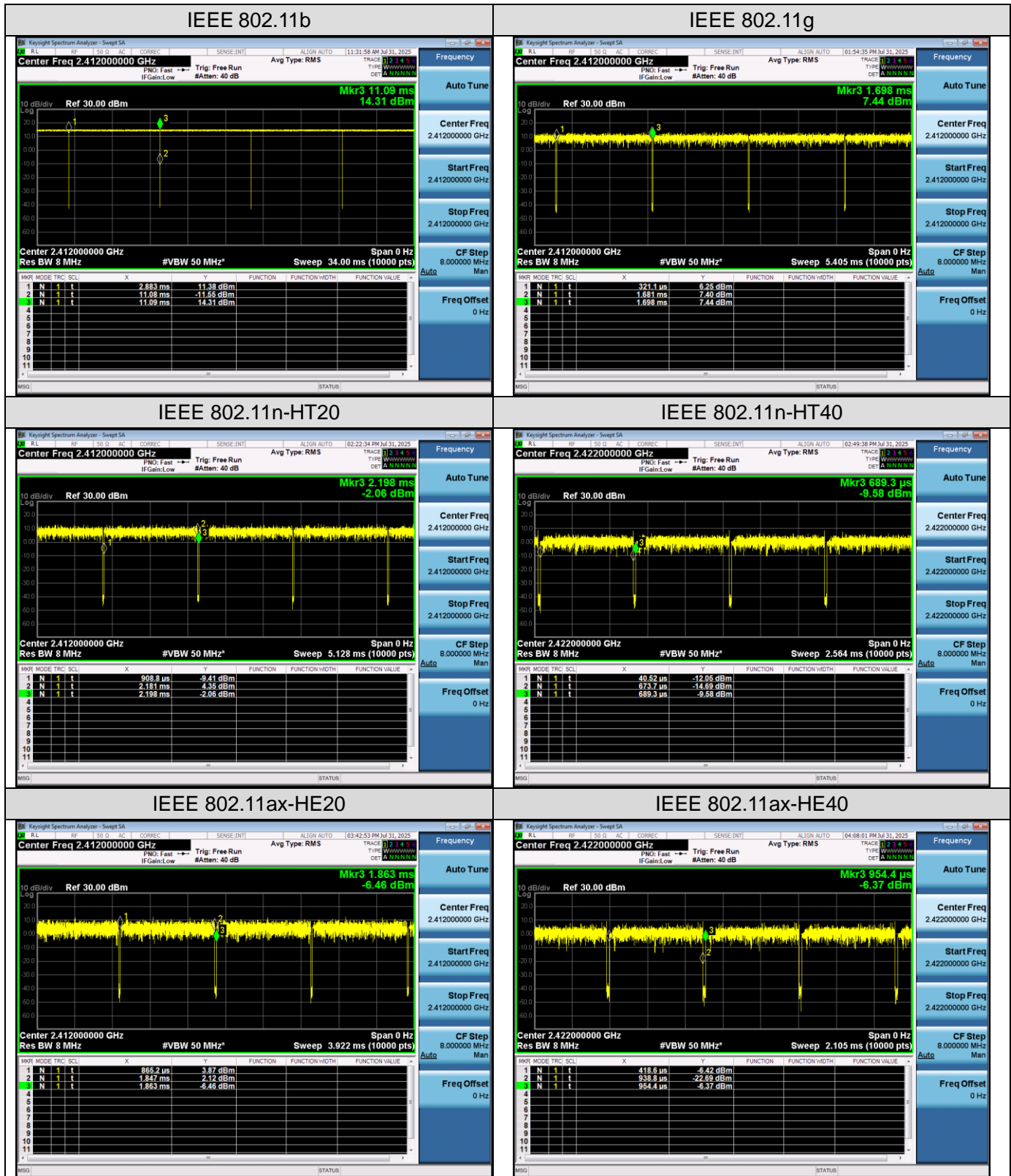
Remark:

1. Duty Cycle factor =  $10 * \log (1 / \text{Duty cycle})$
2. The duty cycle of each frequency band mode reflects the determination requirements of the Low channel measurement value.

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- The test plots as follows:



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## 7. RF Output Power Measurement

### 7.1 Provisions Applicable

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

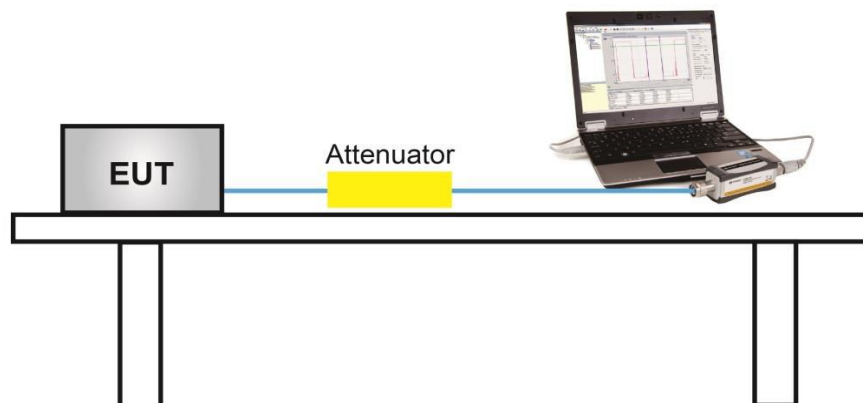
☒ Method PM is Measurement using an RF Peak power meter. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 11.9.1.3
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

☒ Method PM is Measurement using an RF AV power meter. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 11.9.2.3
2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
3. The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
4. At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
5. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
6. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
7. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
8. Adjust the measurement in dBm by adding  $[10 \log (1 / D)]$ , where D is the duty cycle {e.g.,  $[10 \log (1 / 0.25)]$ , if the duty cycle is 25%}.
9. 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					
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Result
802.11b	2412	15.61	18.20	≤30	Pass
	2437	15.61	18.16	≤30	Pass
	2462	15.35	17.95	≤30	Pass
802.11g	2412	12.50	20.18	≤30	Pass
	2437	12.58	<b>20.25</b>	≤30	Pass
	2462	12.39	20.04	≤30	Pass
802.11n20	2412	11.59	19.52	≤30	Pass
	2437	11.51	19.45	≤30	Pass
	2462	11.34	19.27	≤30	Pass
802.11n40	2422	8.32	16.42	≤30	Pass
	2437	8.19	16.30	≤30	Pass
	2452	8.09	16.19	≤30	Pass
802.11ax20	2412	8.61	18.61	≤30	Pass
	2437	8.43	18.42	≤30	Pass
	2462	8.16	18.13	≤30	Pass
802.11ax40	2422	8.44	17.20	≤30	Pass
	2437	8.30	17.05	≤30	Pass
	2452	8.11	16.89	≤30	Pass

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## 8. 6dB Bandwidth Measurement

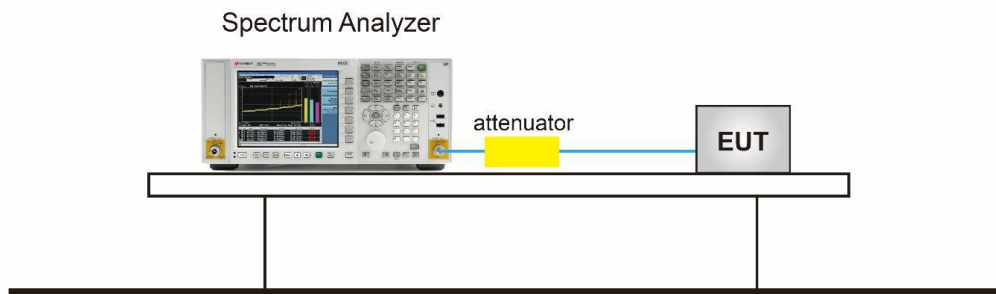
### 8.1 Provisions Applicable

The minimum 6dB bandwidth shall be 500 kHz.

### 8.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
1. 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.
  2. Set to the maximum power setting and enable the EUT transmit continuously.
  3. 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.
  4. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW)  $\geq 3 * \text{RBW}$ .
  5. Detector = peak
  6. Trace mode = max hold.
  7. Sweep = auto couple.
  8. Allow the trace to stabilize.
  9. Measure and record the results in the test report.

### 8.3 Measurement Setup (Block Diagram of Configuration)



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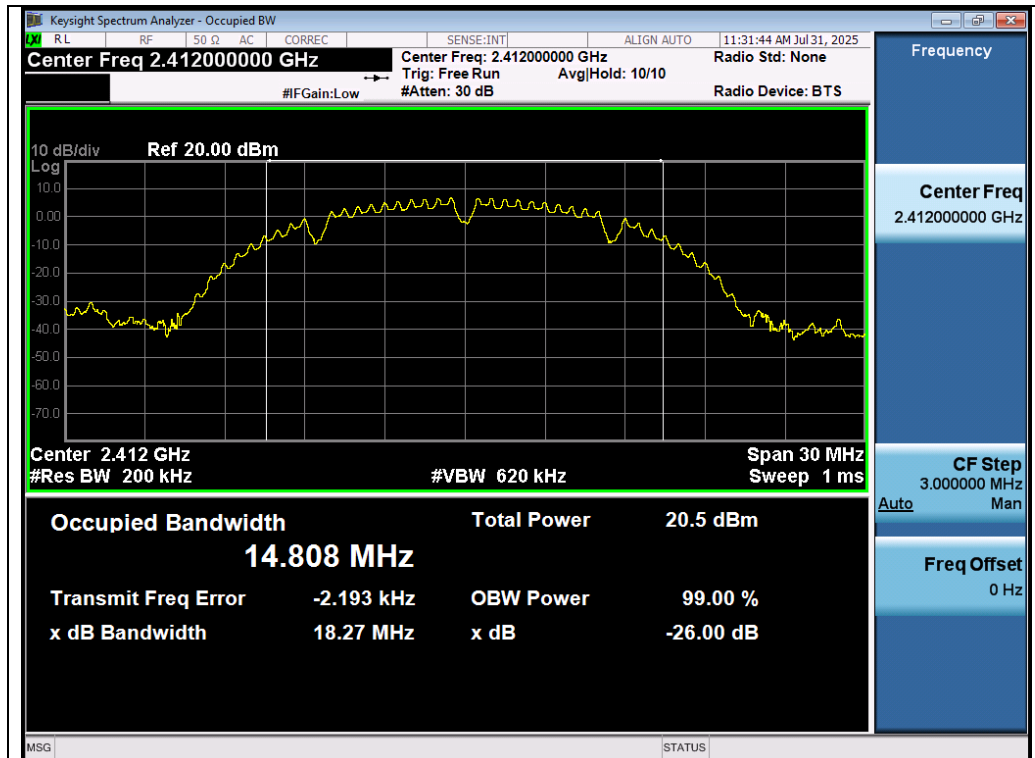


#### 8.4 Measurement Result

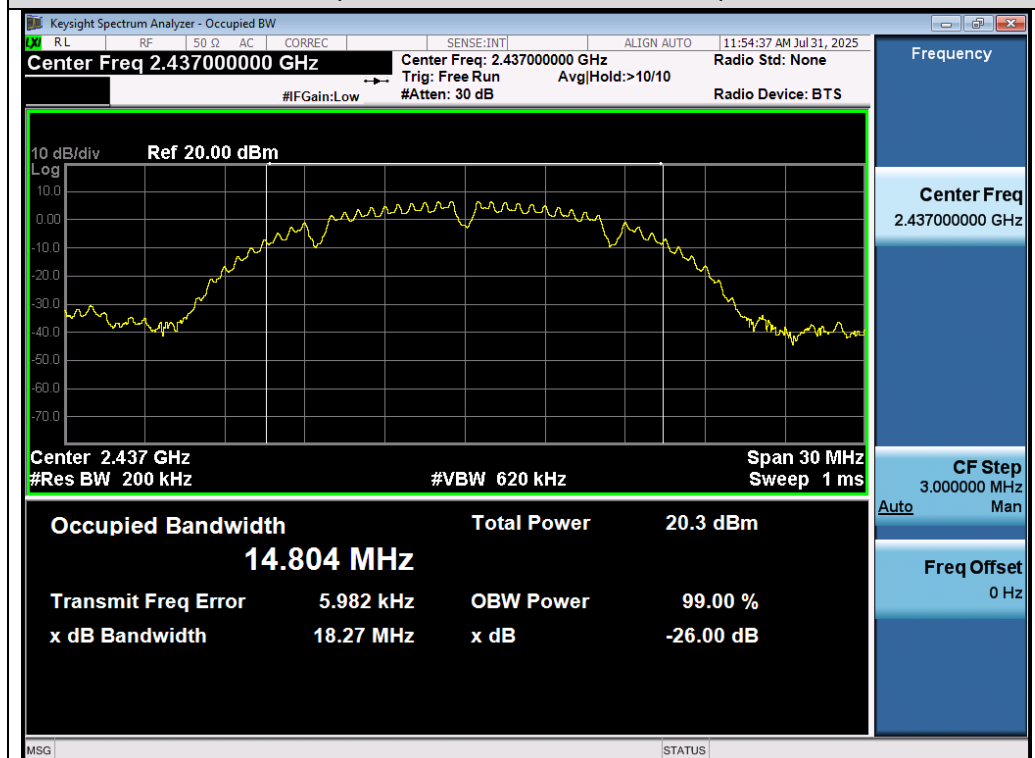
Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	DTS Bandwidth Limits (MHz)	Result
802.11b	2412	14.808	10.070	≥0.5	Pass
	2437	14.804	10.075	≥0.5	Pass
	2462	14.810	10.077	≥0.5	Pass
802.11g	2412	16.633	16.382	≥0.5	Pass
	2437	16.628	16.367	≥0.5	Pass
	2462	16.626	16.363	≥0.5	Pass
802.11n20	2412	17.854	17.623	≥0.5	Pass
	2437	17.850	17.616	≥0.5	Pass
	2462	17.855	17.623	≥0.5	Pass
802.11n40	2422	36.189	36.390	≥0.5	Pass
	2437	36.189	36.386	≥0.5	Pass
	2452	36.186	36.391	≥0.5	Pass
802.11ax20	2412	19.026	19.018	≥0.5	Pass
	2437	19.021	19.013	≥0.5	Pass
	2462	19.023	19.010	≥0.5	Pass
802.11ax40	2422	37.848	37.928	≥0.5	Pass
	2437	37.844	37.935	≥0.5	Pass
	2452	37.840	37.929	≥0.5	Pass

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### Test Graphs of Occupied Bandwidth

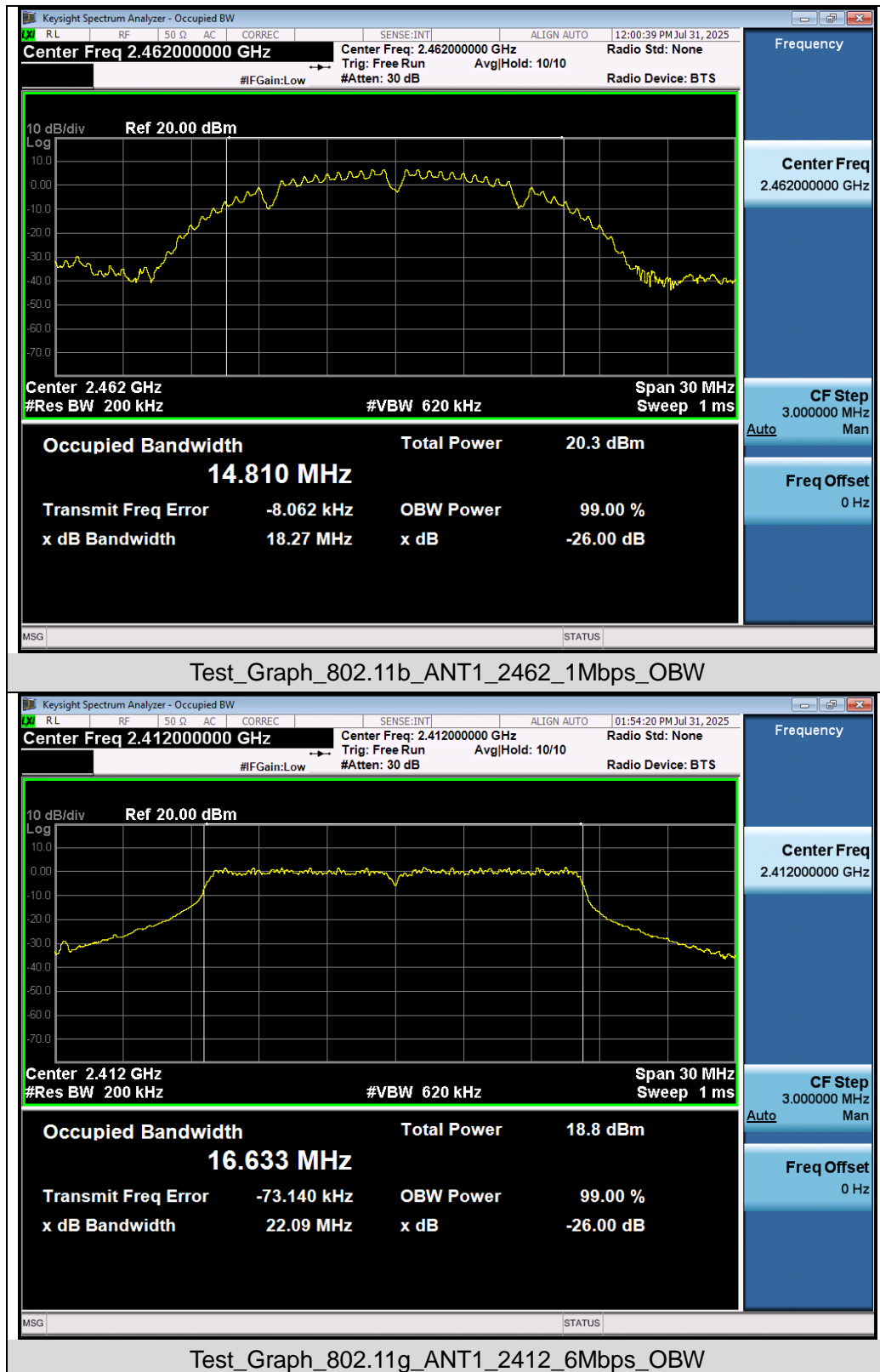


### Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_OBW



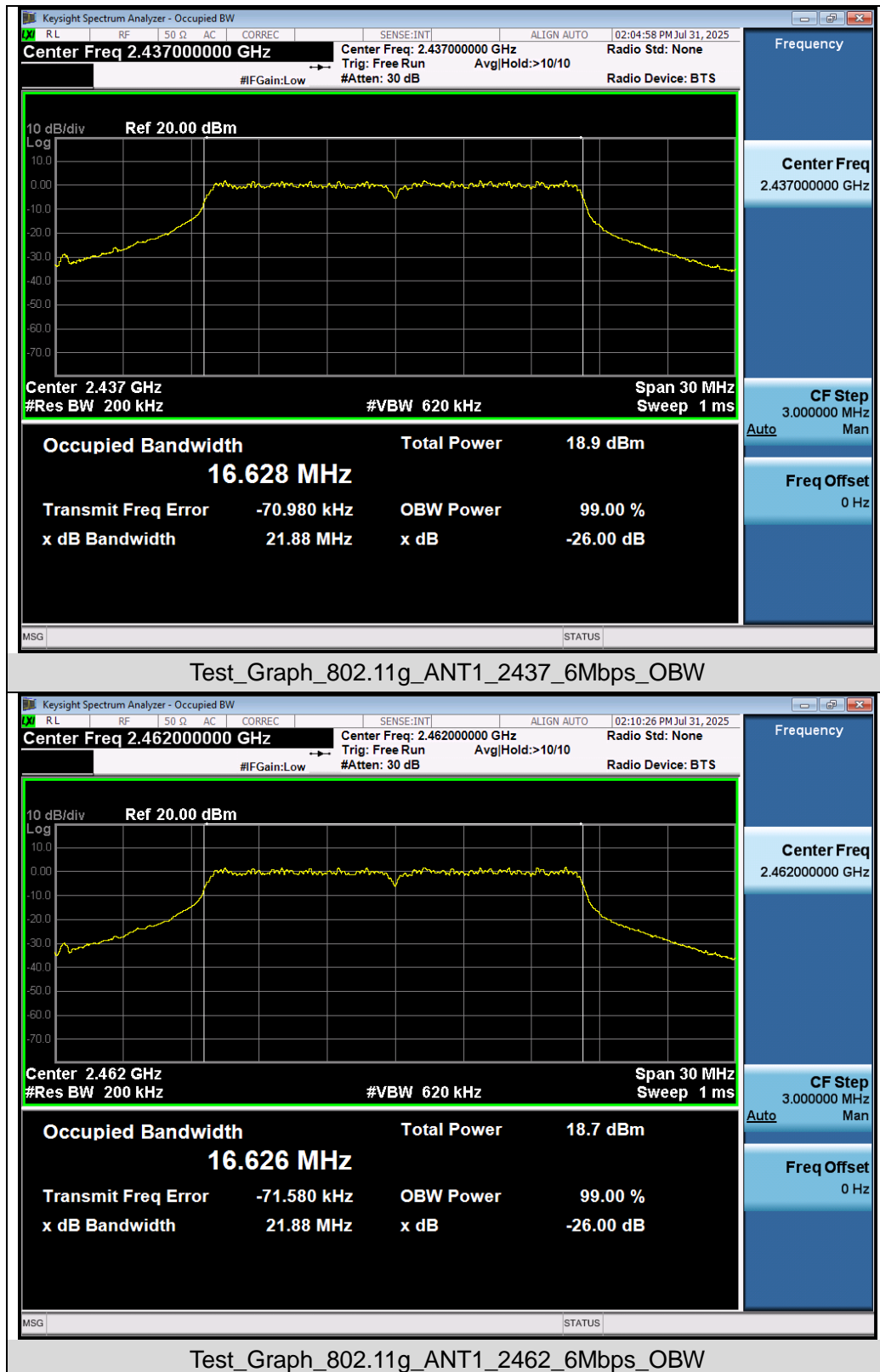
### Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_OBW

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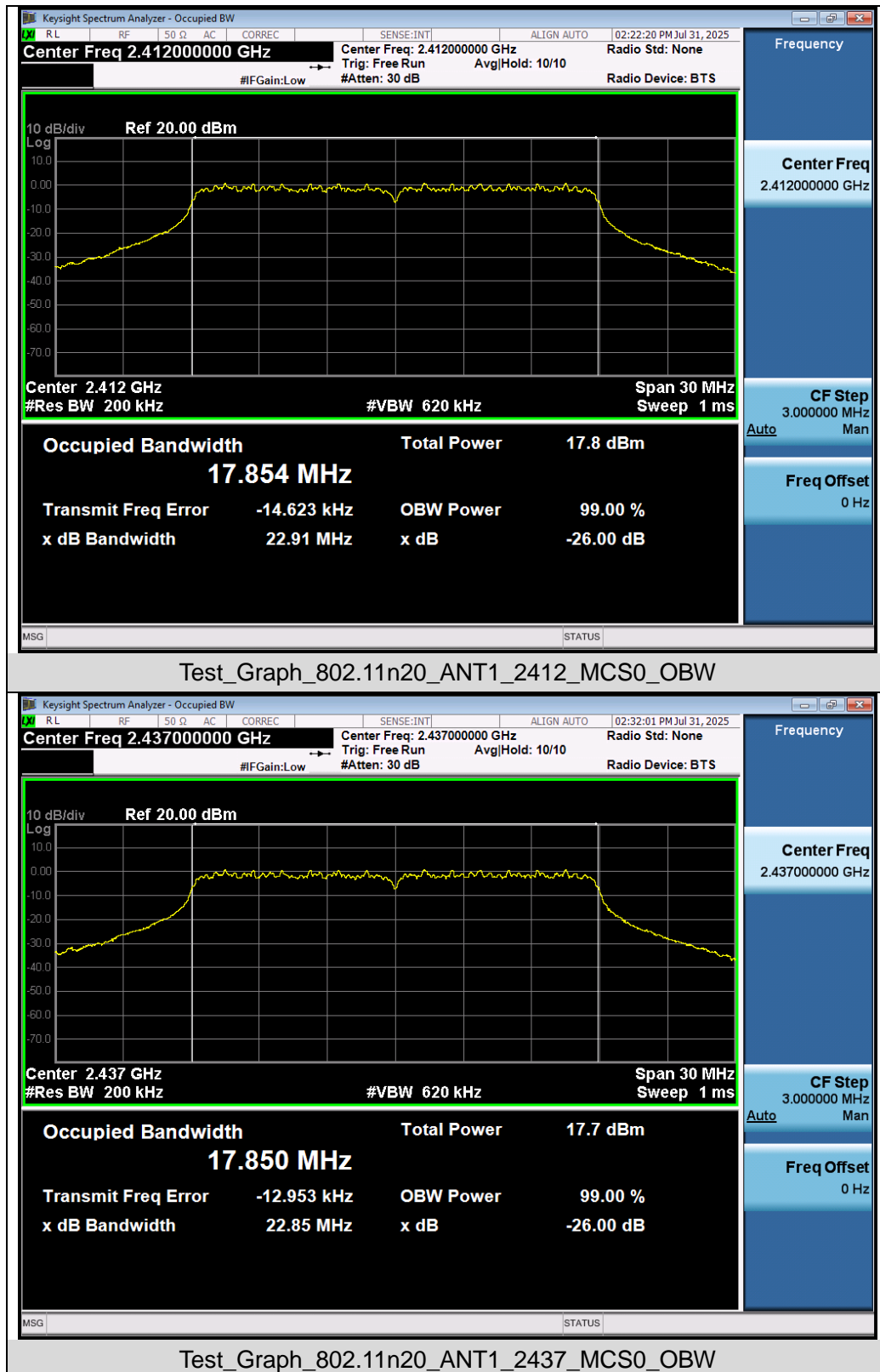
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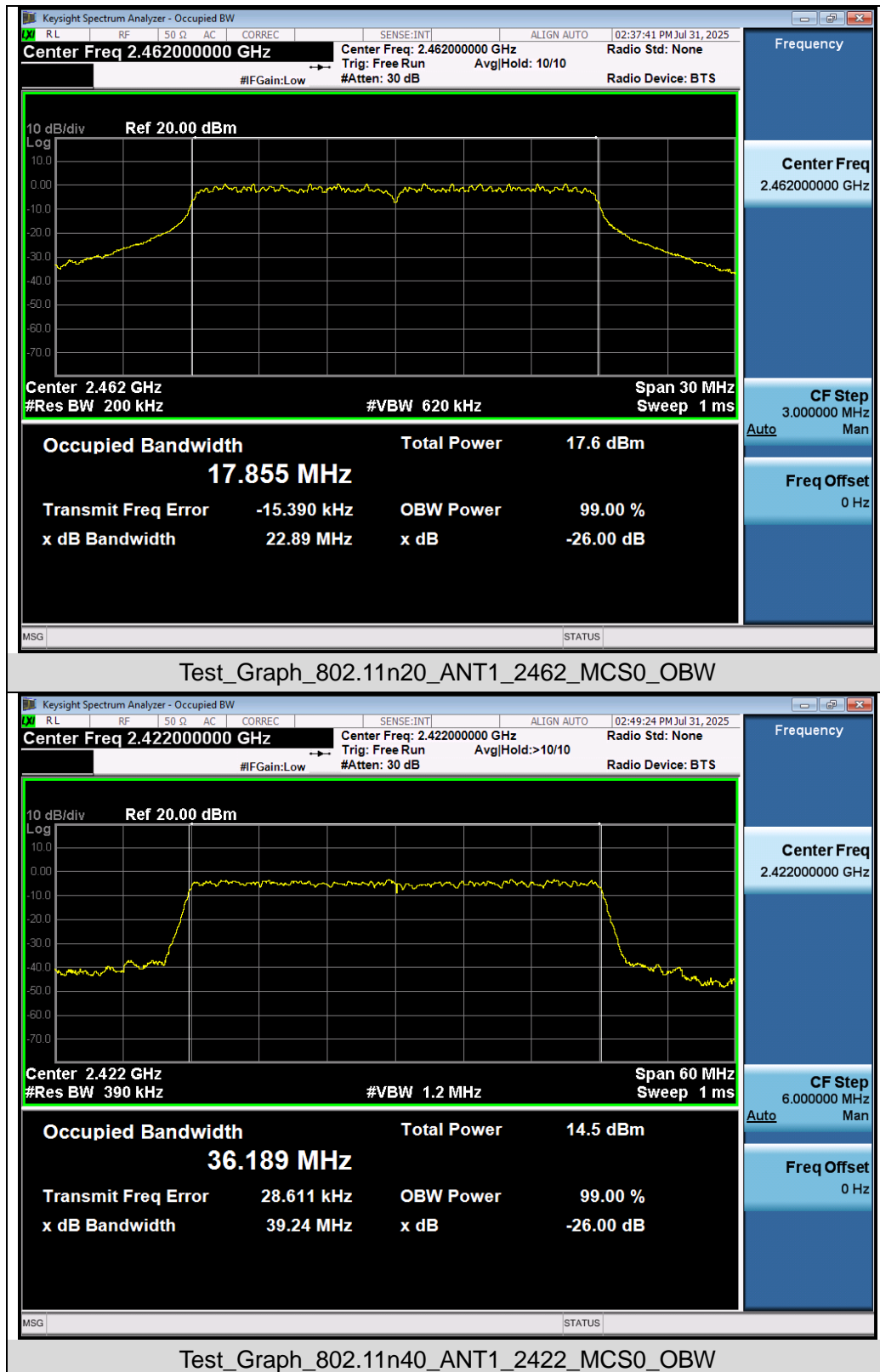


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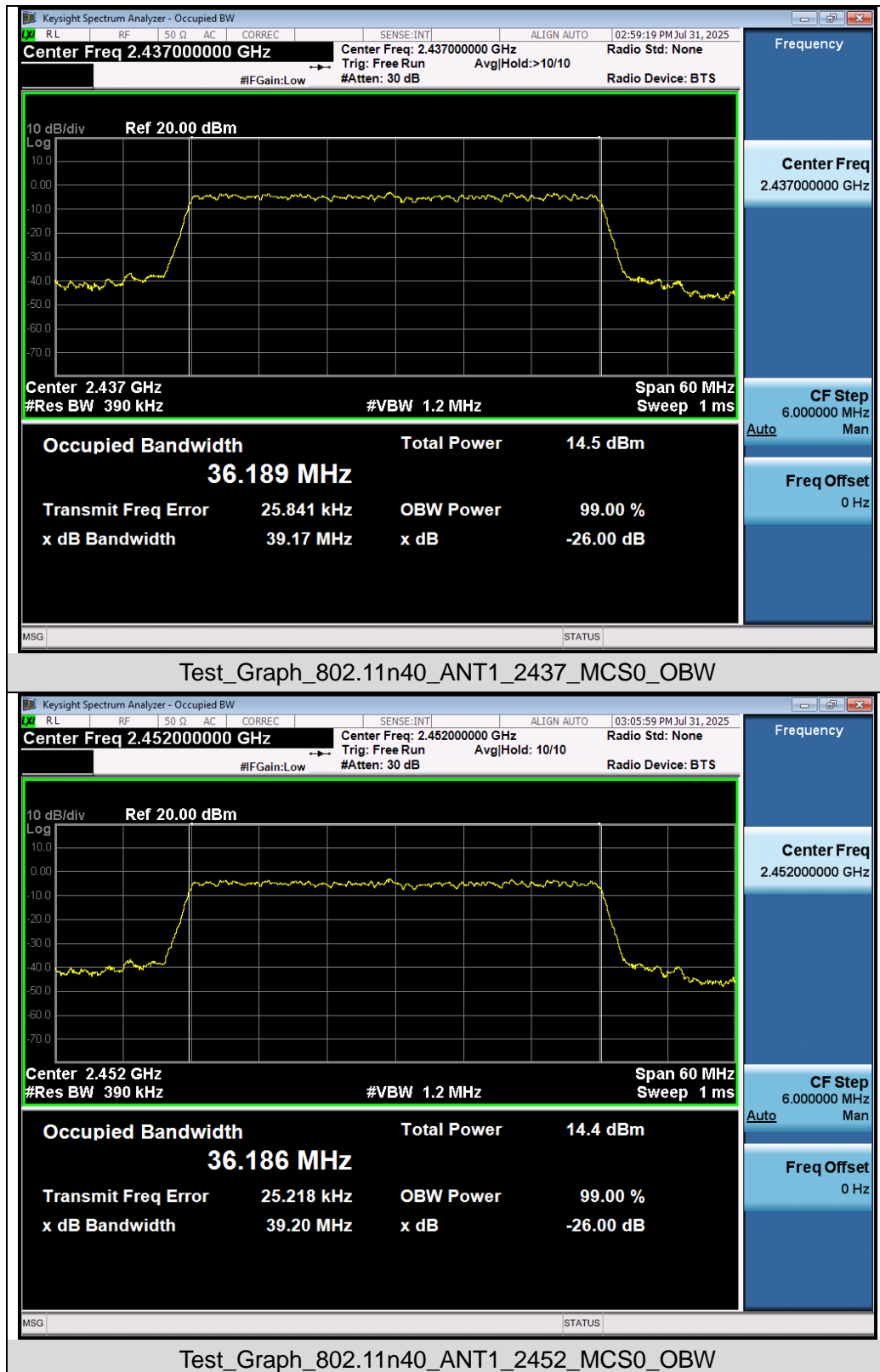


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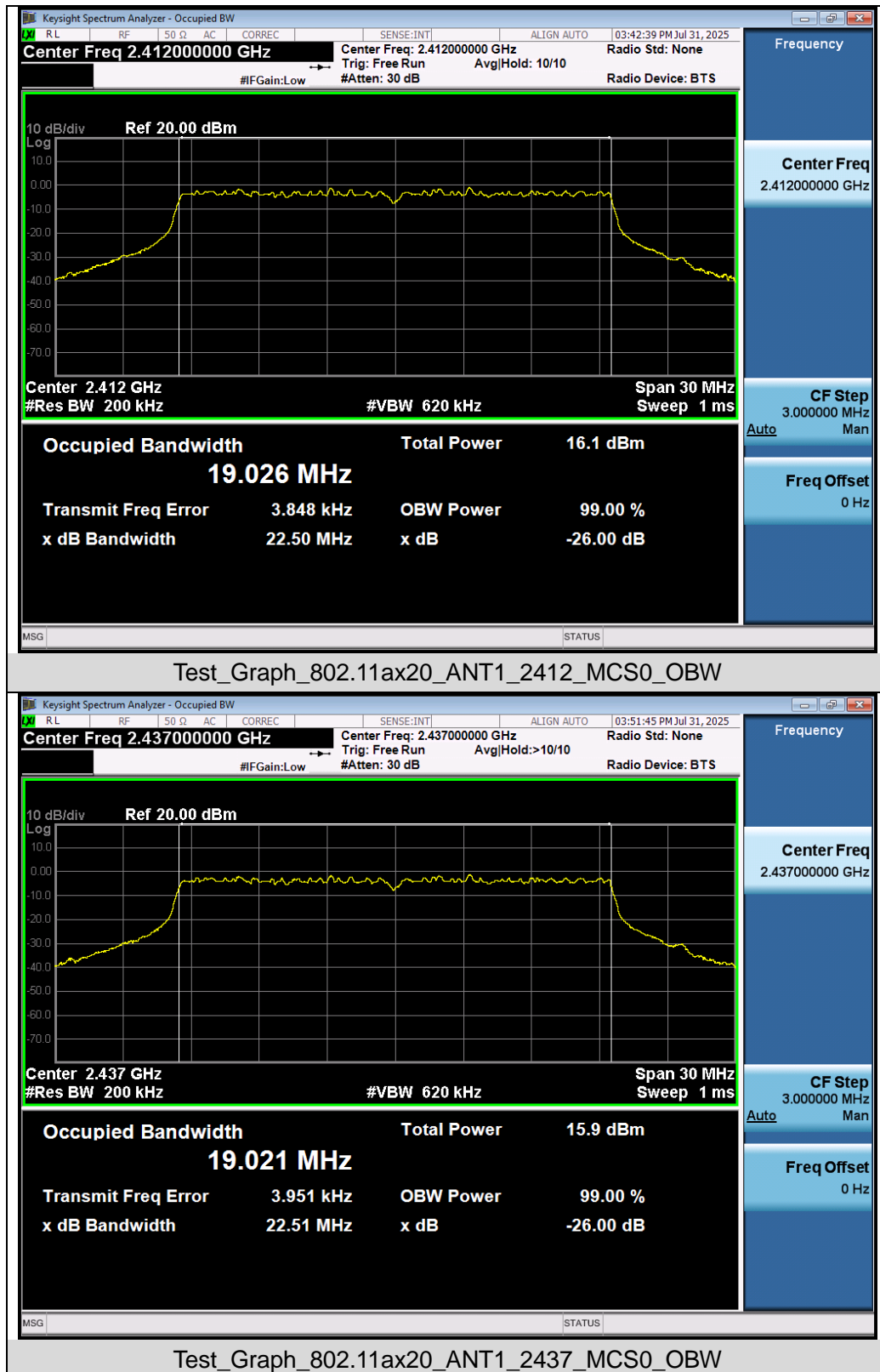
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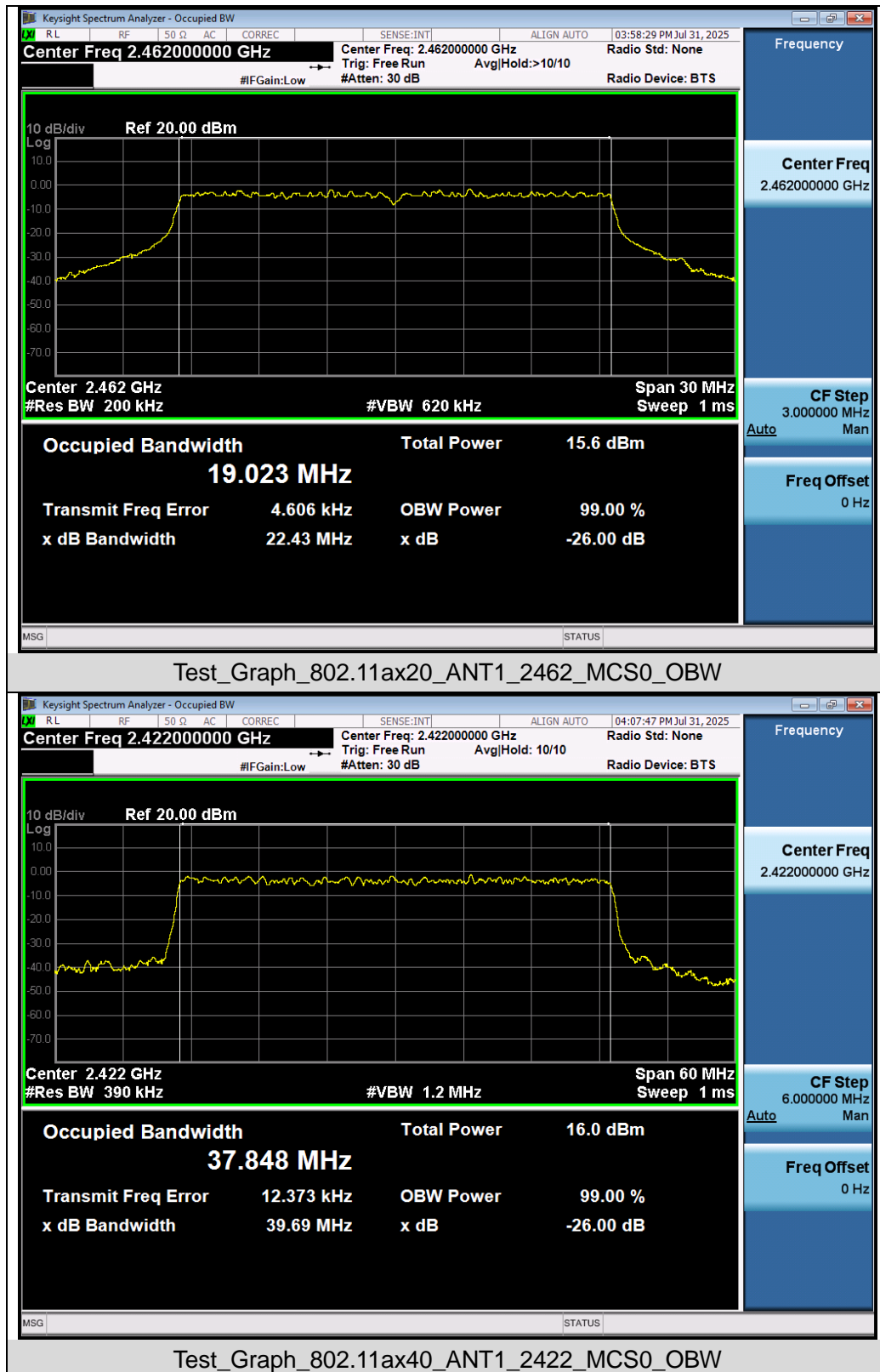
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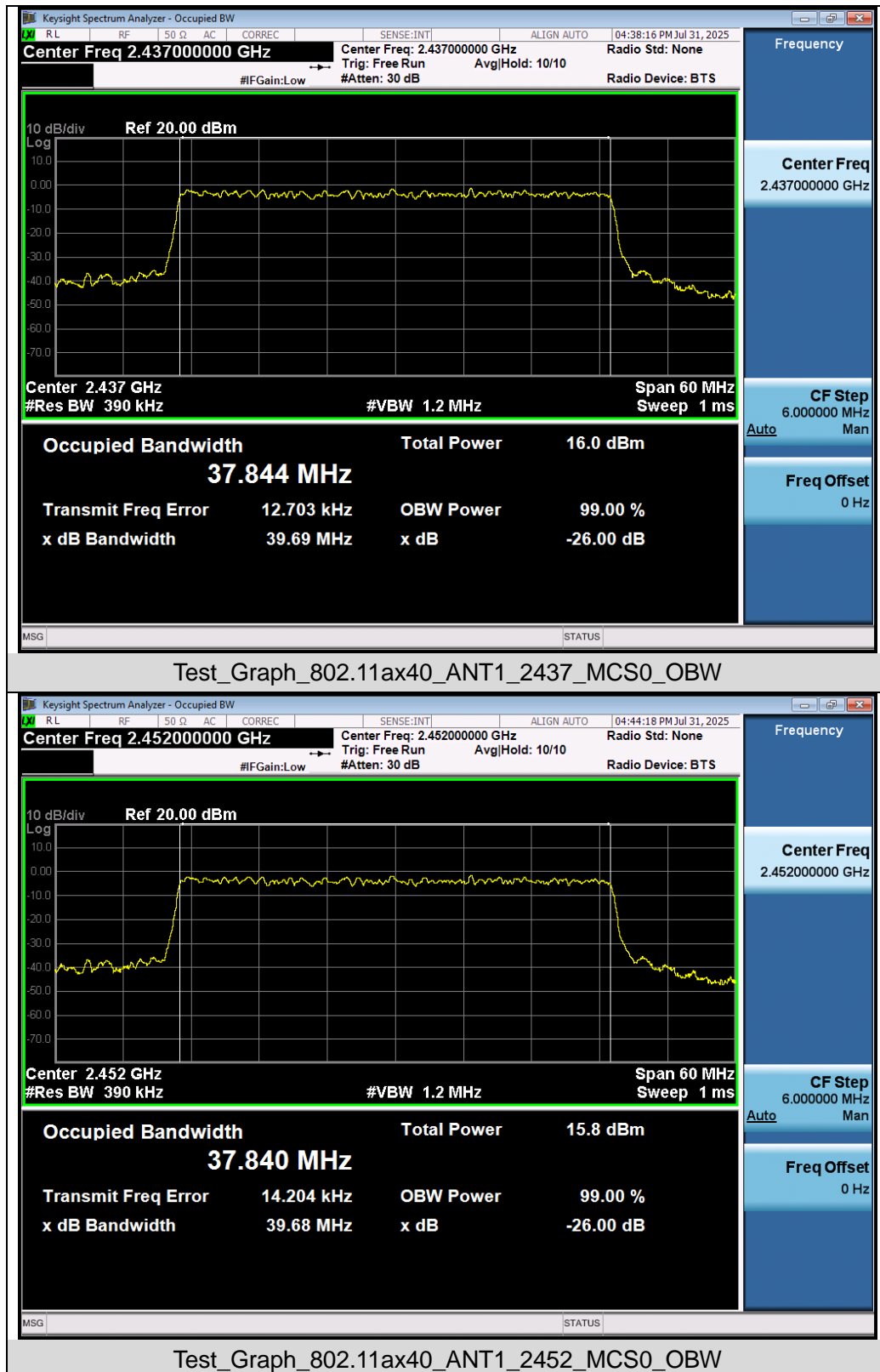


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### Test Graphs of DTS Bandwidth

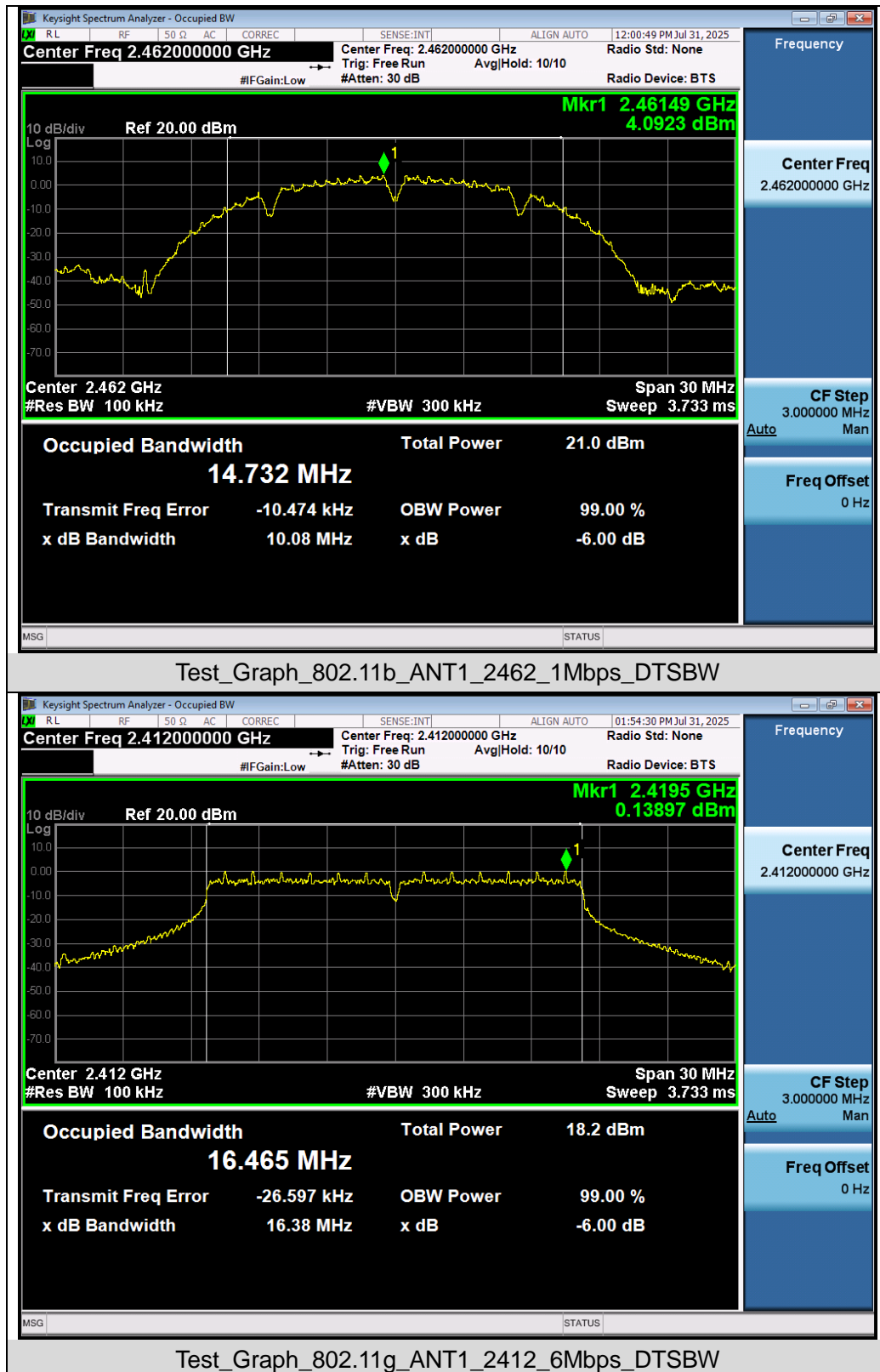


### Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_DTSBW



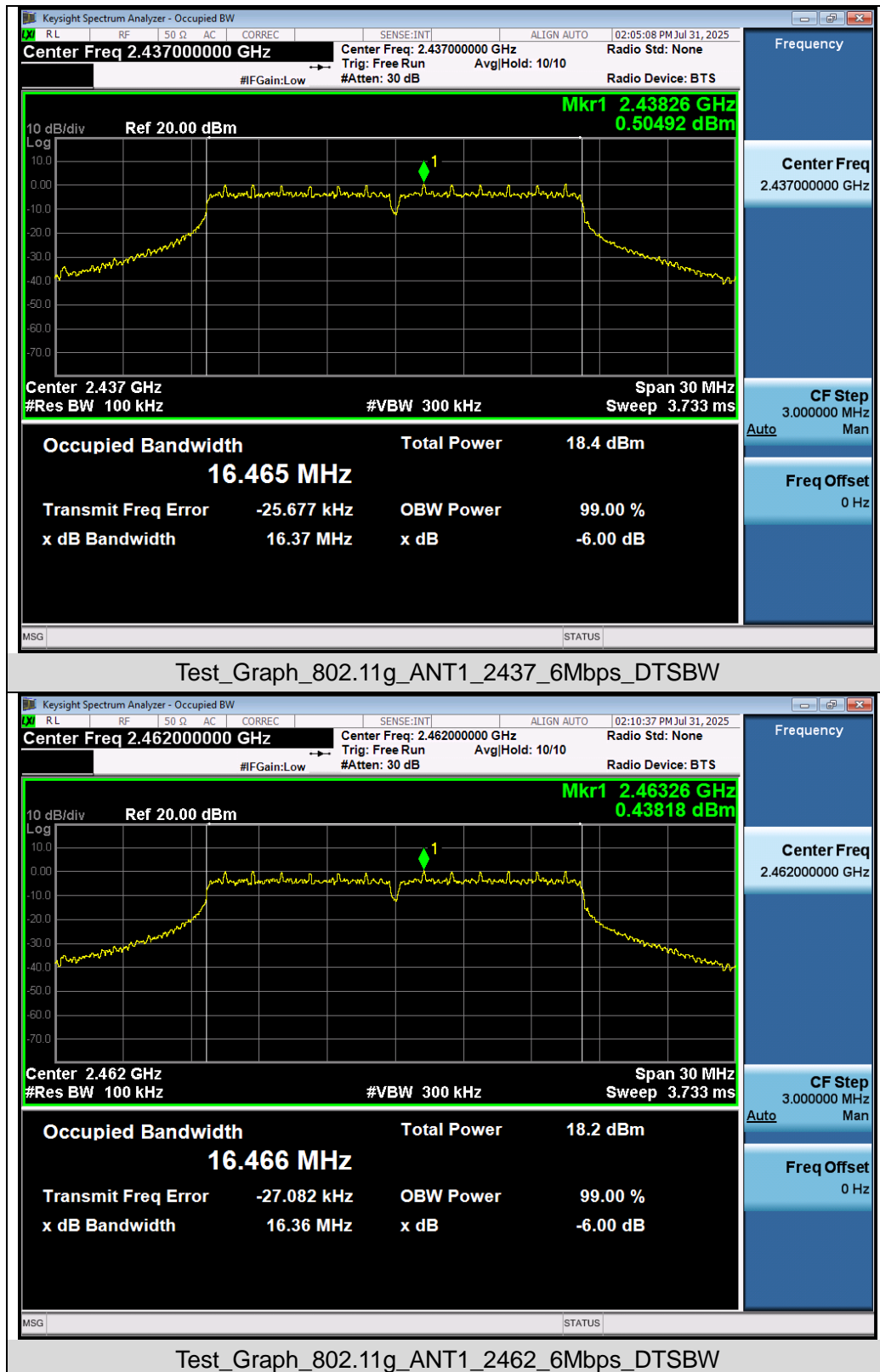
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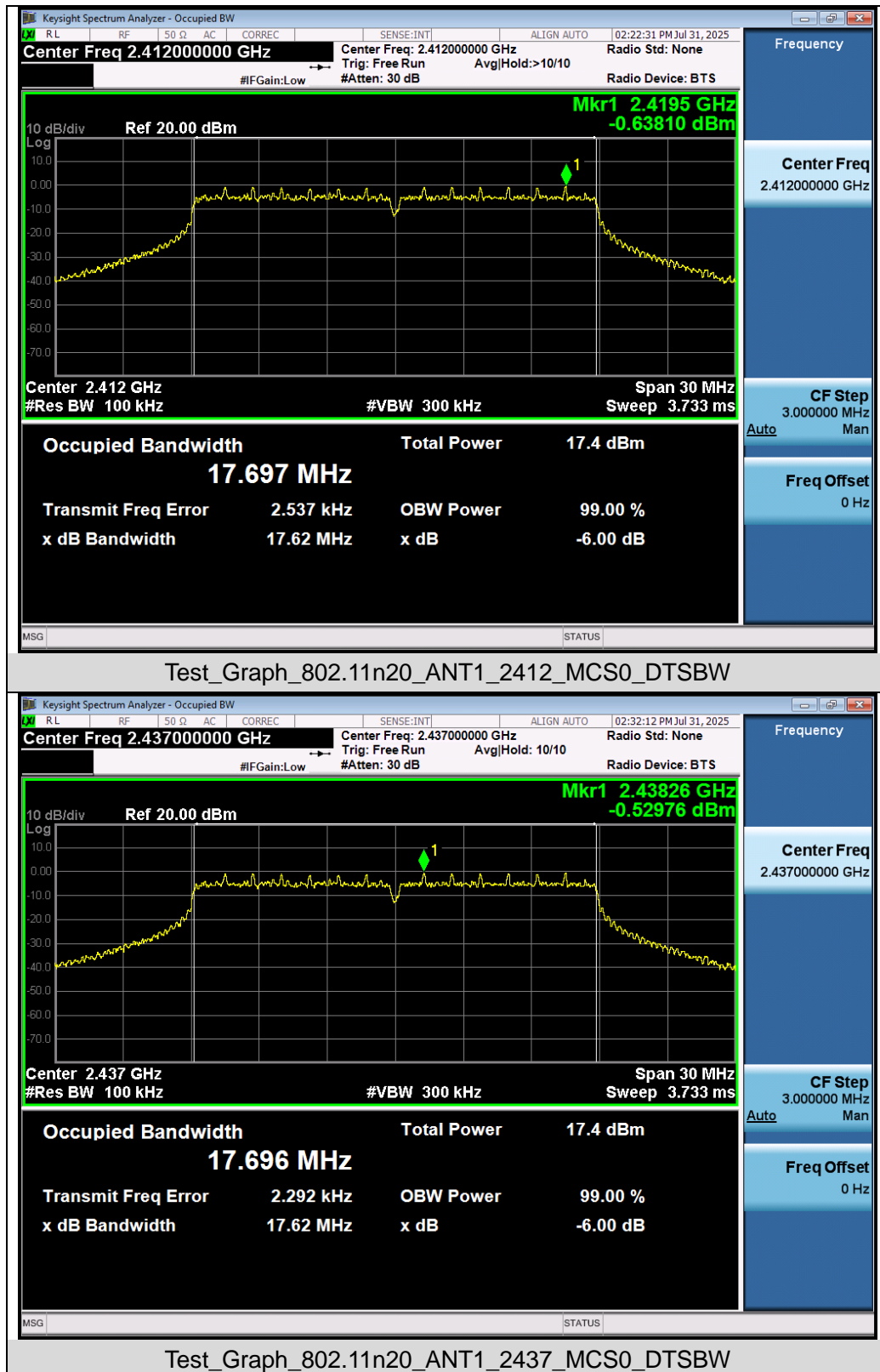
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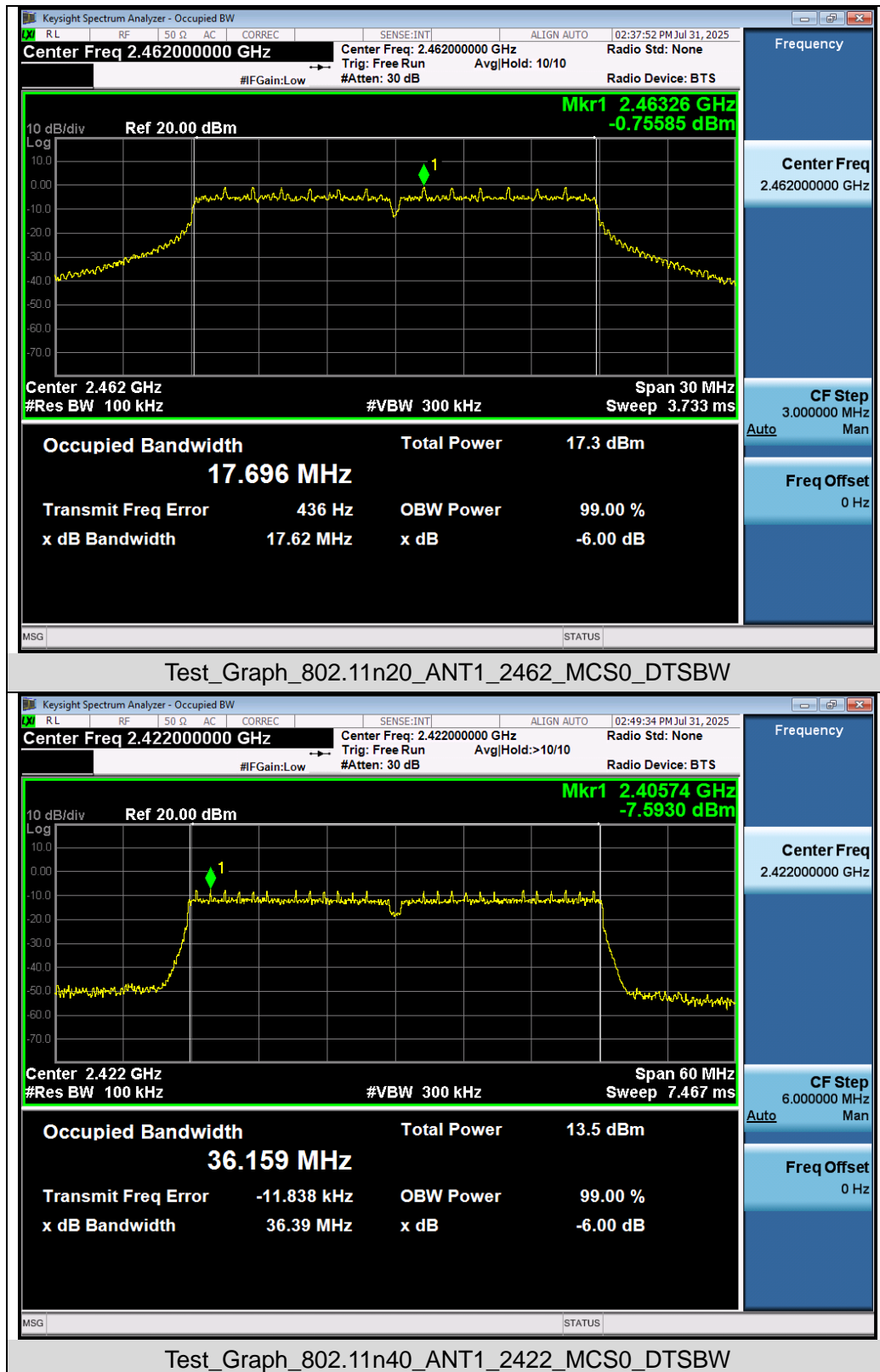
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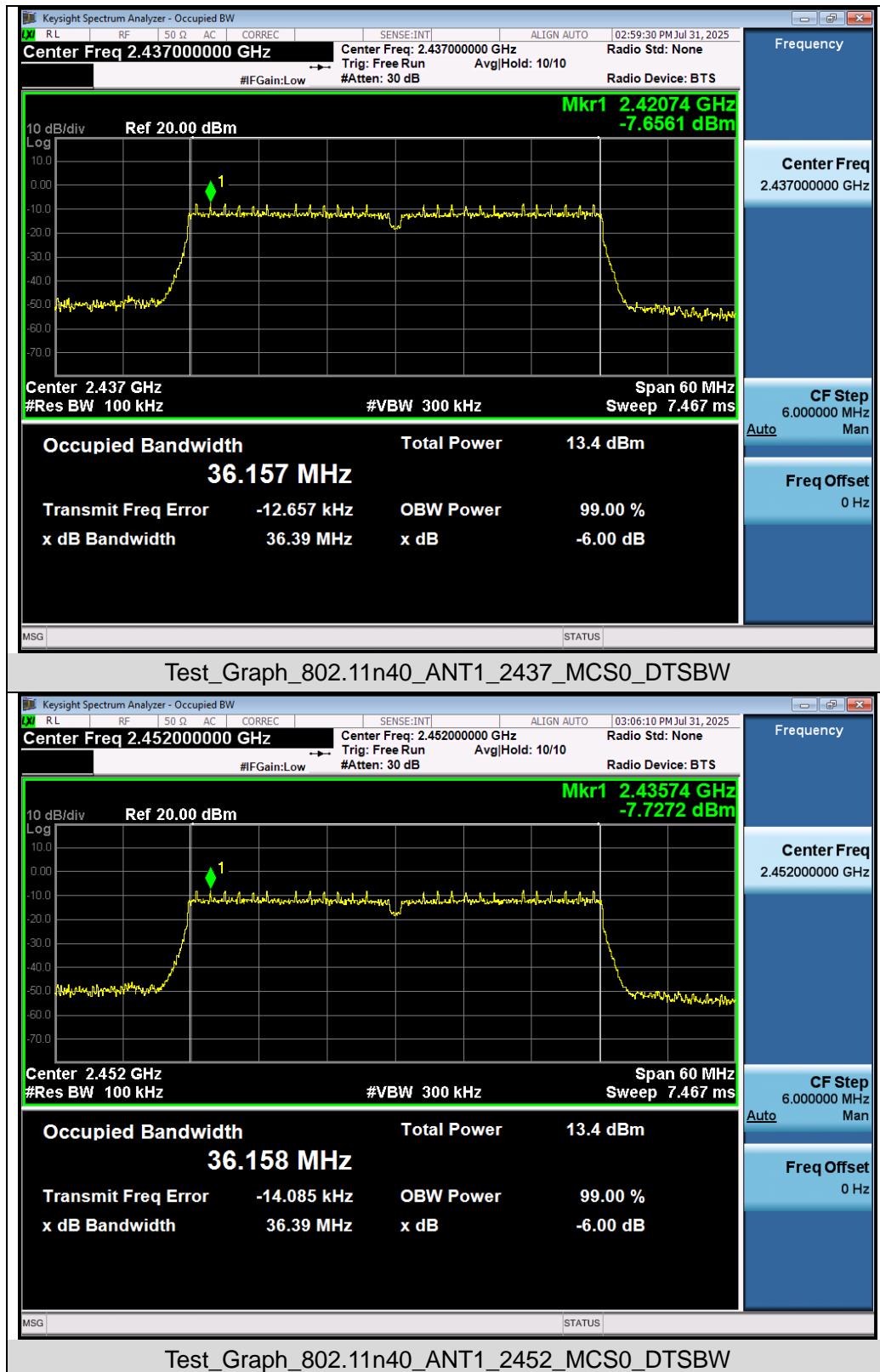
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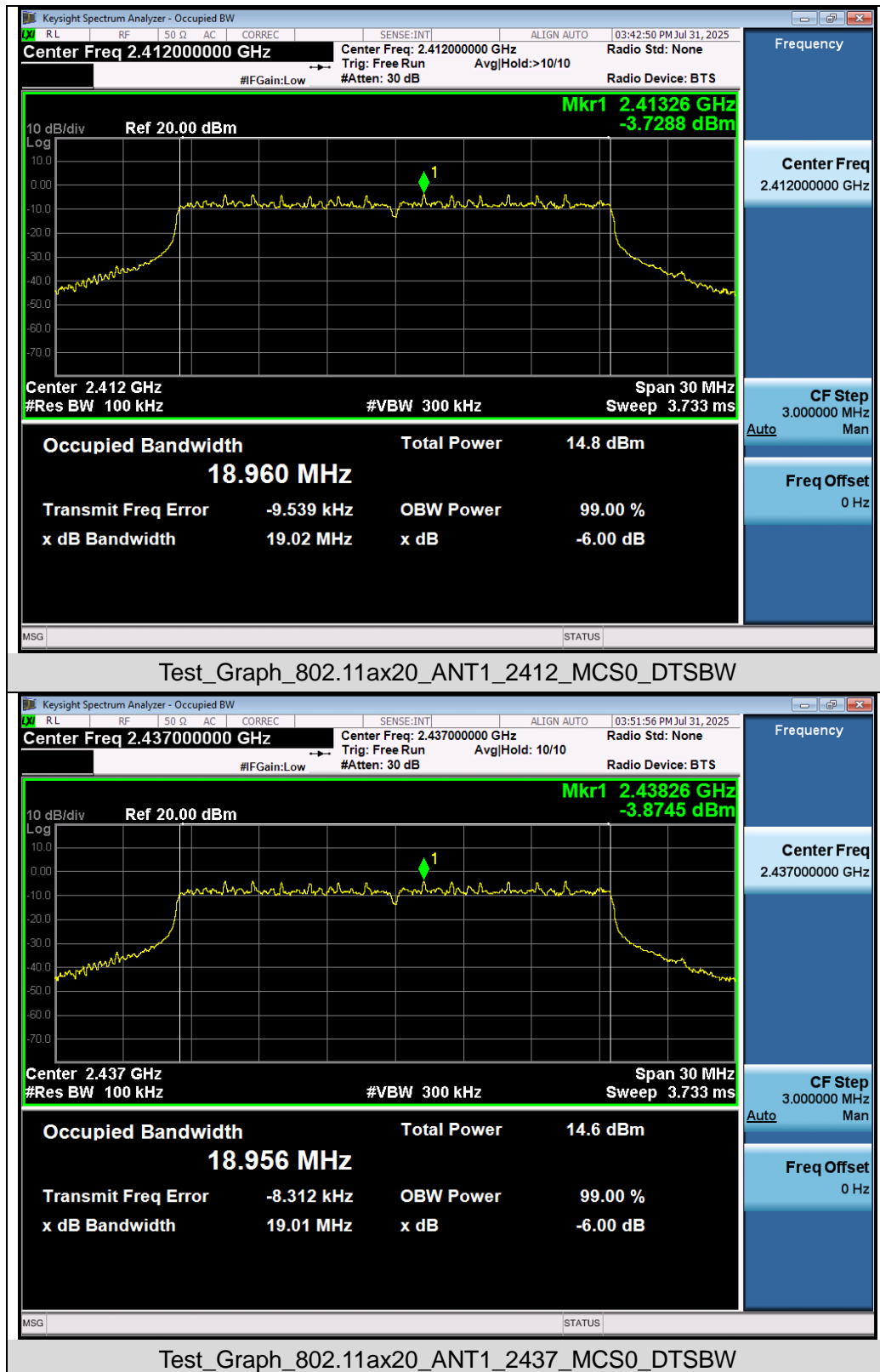
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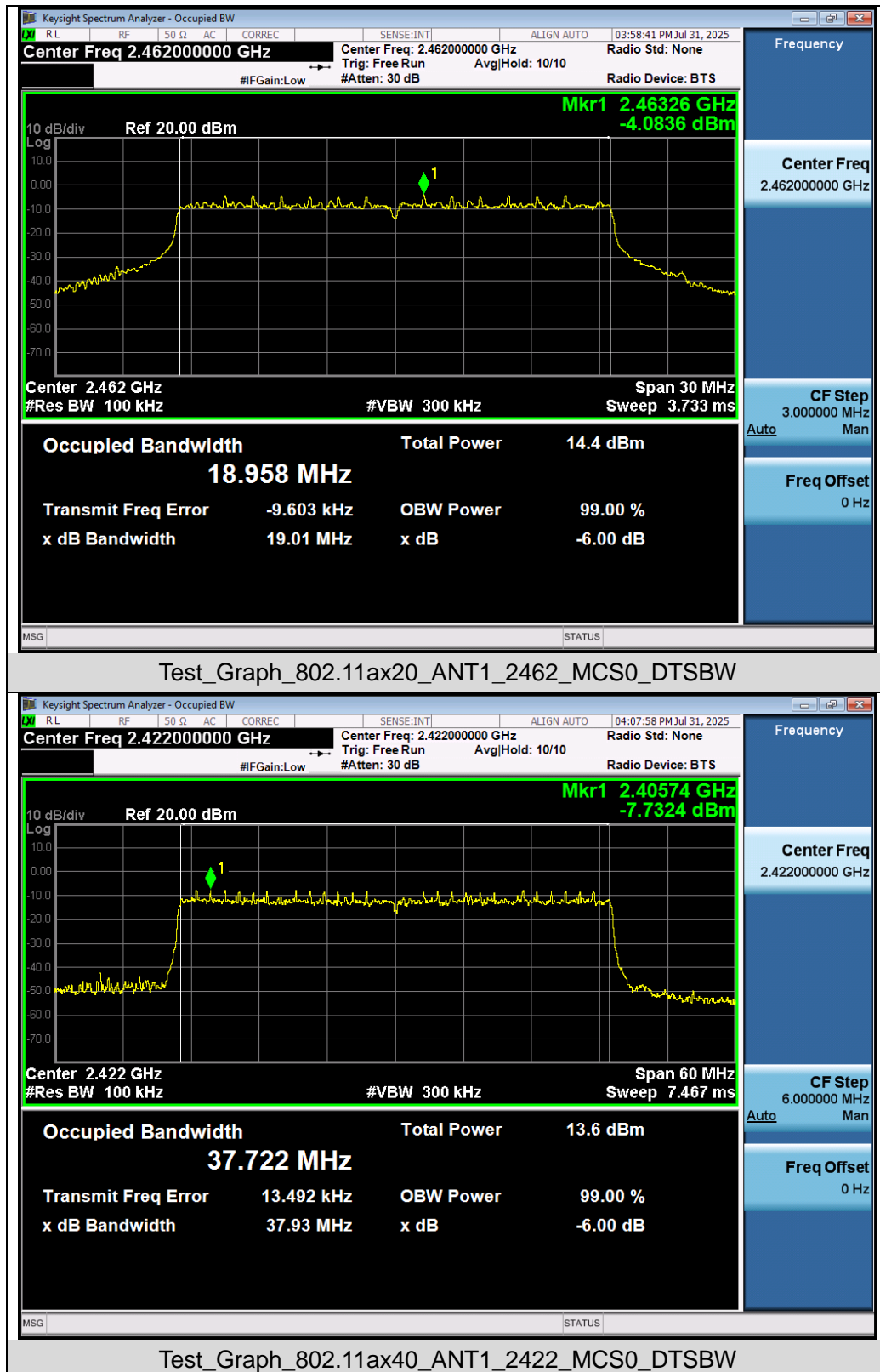
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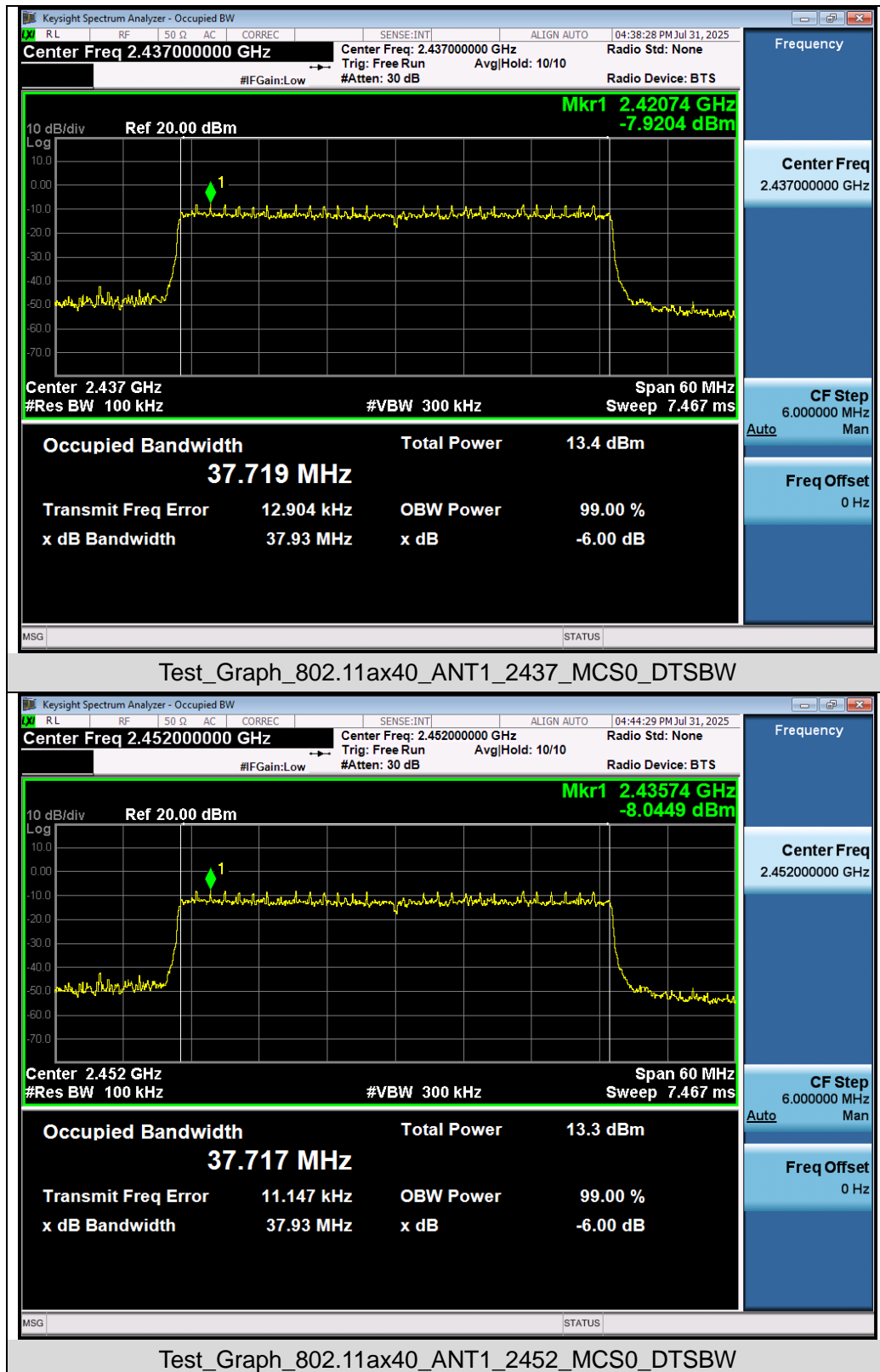
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## 9. Power Spectral Density Measurement

### 9.1 Provisions Applicable

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 9.2 Measurement Procedure

☒ For Peak power spectral density test:

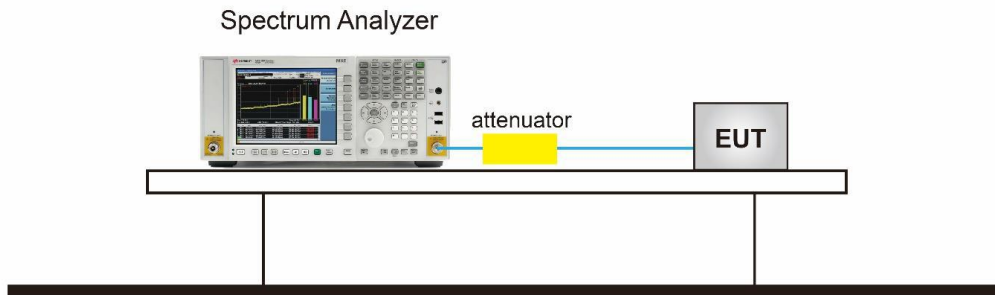
1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the RBW = 20 kHz.
4. Set the VBW  $\geq [3 \times \text{RBW}]$ .
5. Set the Span  $\geq [1.5 \times \text{DTS bandwidth}]$ .
6. Sweep time=Auto couple.
7. Detector function=Peak.
8. Trace Mode=Max hold.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of  $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$  is added to the measurement result.
10. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
11. The indicated level is the peak output power, after any corrections for external attenuators and cables.

☐ For Average power spectral density test:

1. The testing follows the ANSI C63.10 Section 11.10.5 Method AVPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set Span to at least 1.5 times the OBW.
4. Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
5. Set VBW  $\geq [3 \times \text{RBW}]$ .
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of  $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$  is added to the measurement result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. 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%.
12. Record the test results in the report.

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### 9.3 Measurement Setup (Block Diagram of Configuration)



### 9.4 Measurement Result

Test Data of Conducted Output Power Spectral Density					
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/20kHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	2412	-1.835	-10.074	≤8	Pass
	2437	-1.874	-10.113	≤8	Pass
	2462	-2.489	-10.728	≤8	Pass
802.11g	2412	-5.442	-13.681	≤8	Pass
	2437	-5.766	-14.005	≤8	Pass
	2462	-5.552	-13.791	≤8	Pass
802.11n20	2412	-6.167	-14.406	≤8	Pass
	2437	-6.219	-14.458	≤8	Pass
	2462	-6.425	-14.664	≤8	Pass
802.11n40	2422	-11.561	-19.800	≤8	Pass
	2437	-11.773	-20.012	≤8	Pass
	2452	-11.835	-20.074	≤8	Pass
802.11ax20	2412	-9.314	-17.553	≤8	Pass
	2437	-9.712	-17.951	≤8	Pass
	2462	-9.793	-18.032	≤8	Pass
802.11ax40	2422	-11.230	-19.469	≤8	Pass
	2437	-11.400	-19.639	≤8	Pass
	2452	-11.597	-19.836	≤8	Pass

Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) – 10\*log(20/3).

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### Test Graphs of Conducted Output Power Spectral Density



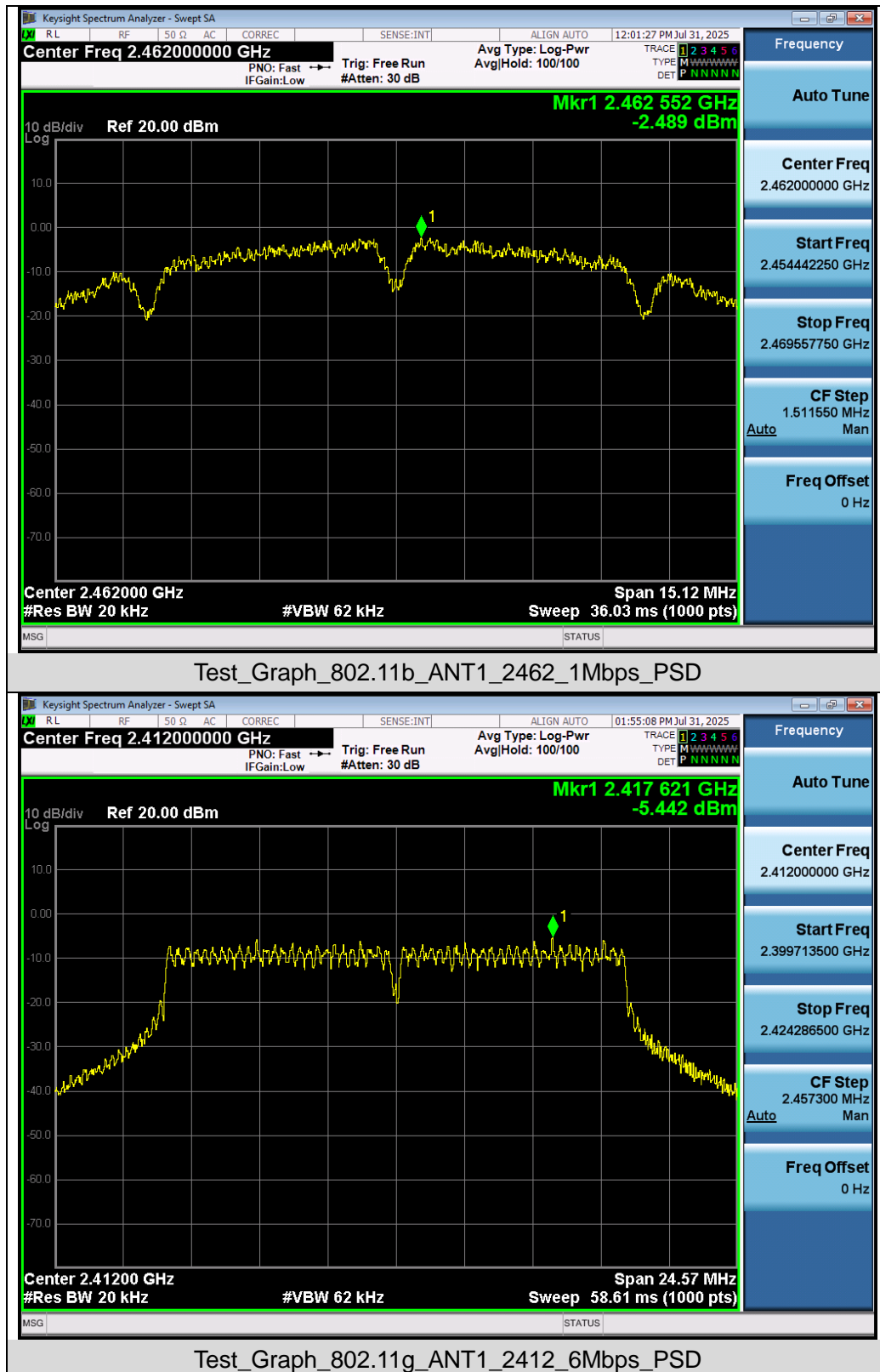
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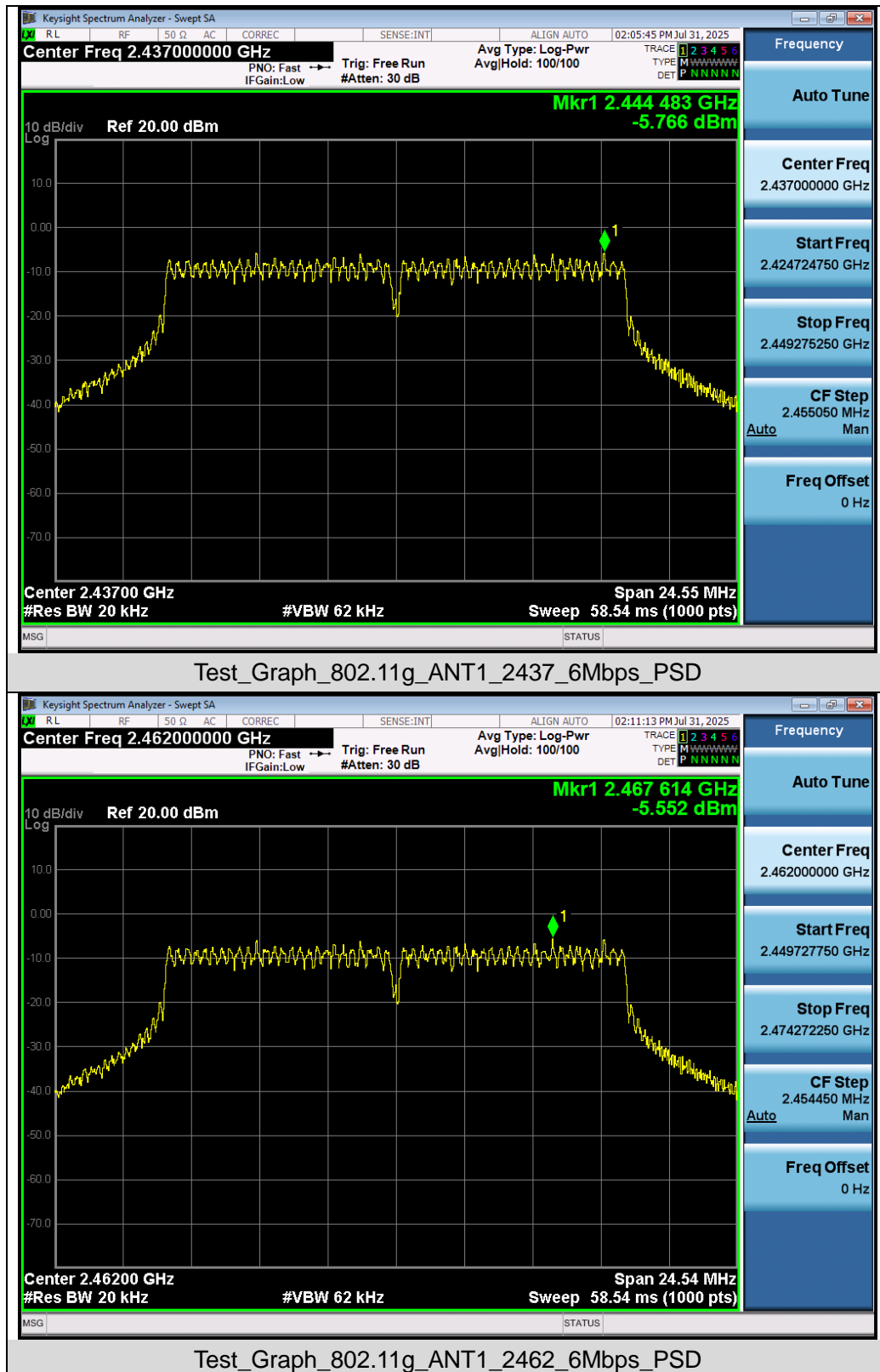
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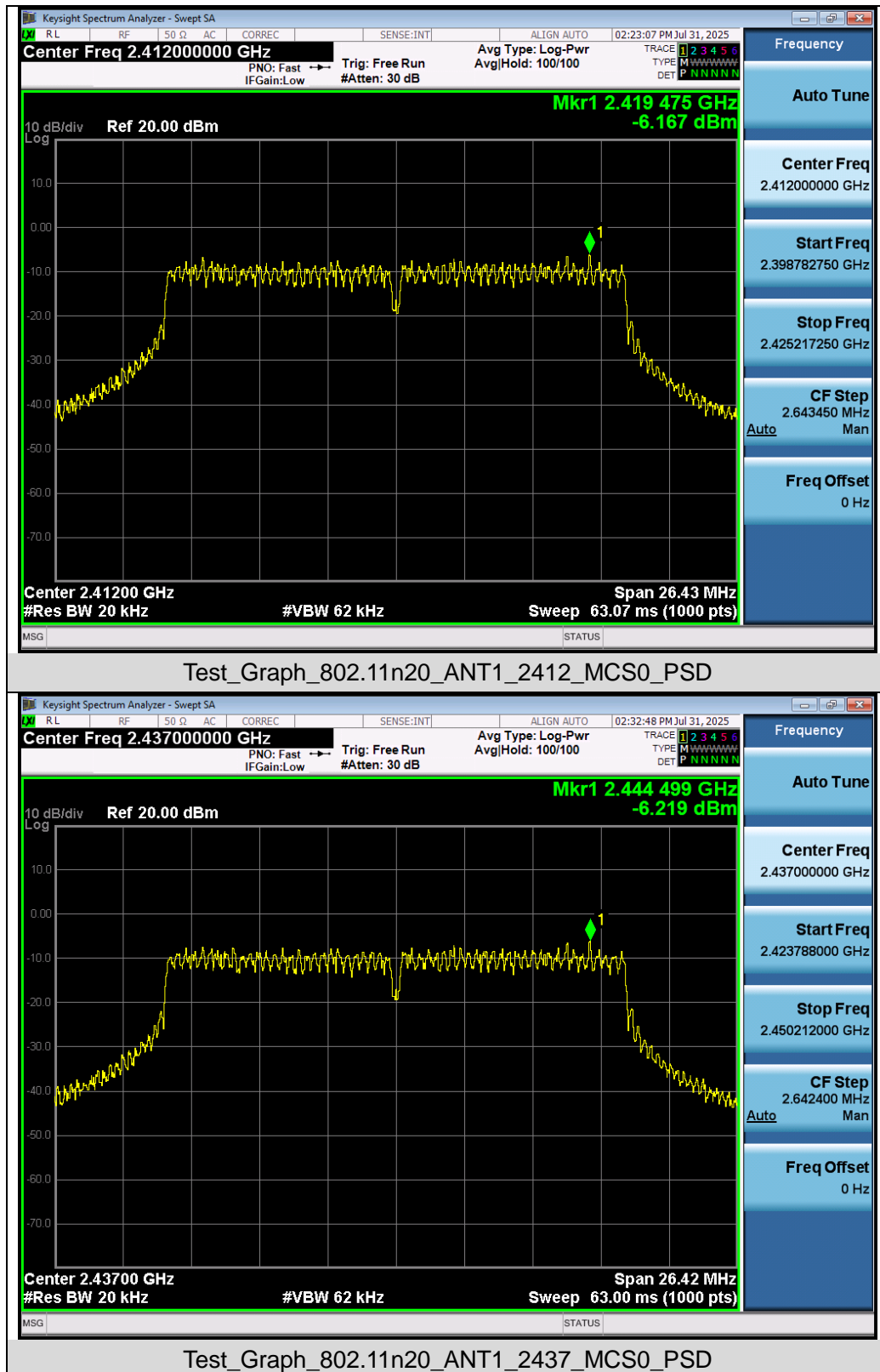
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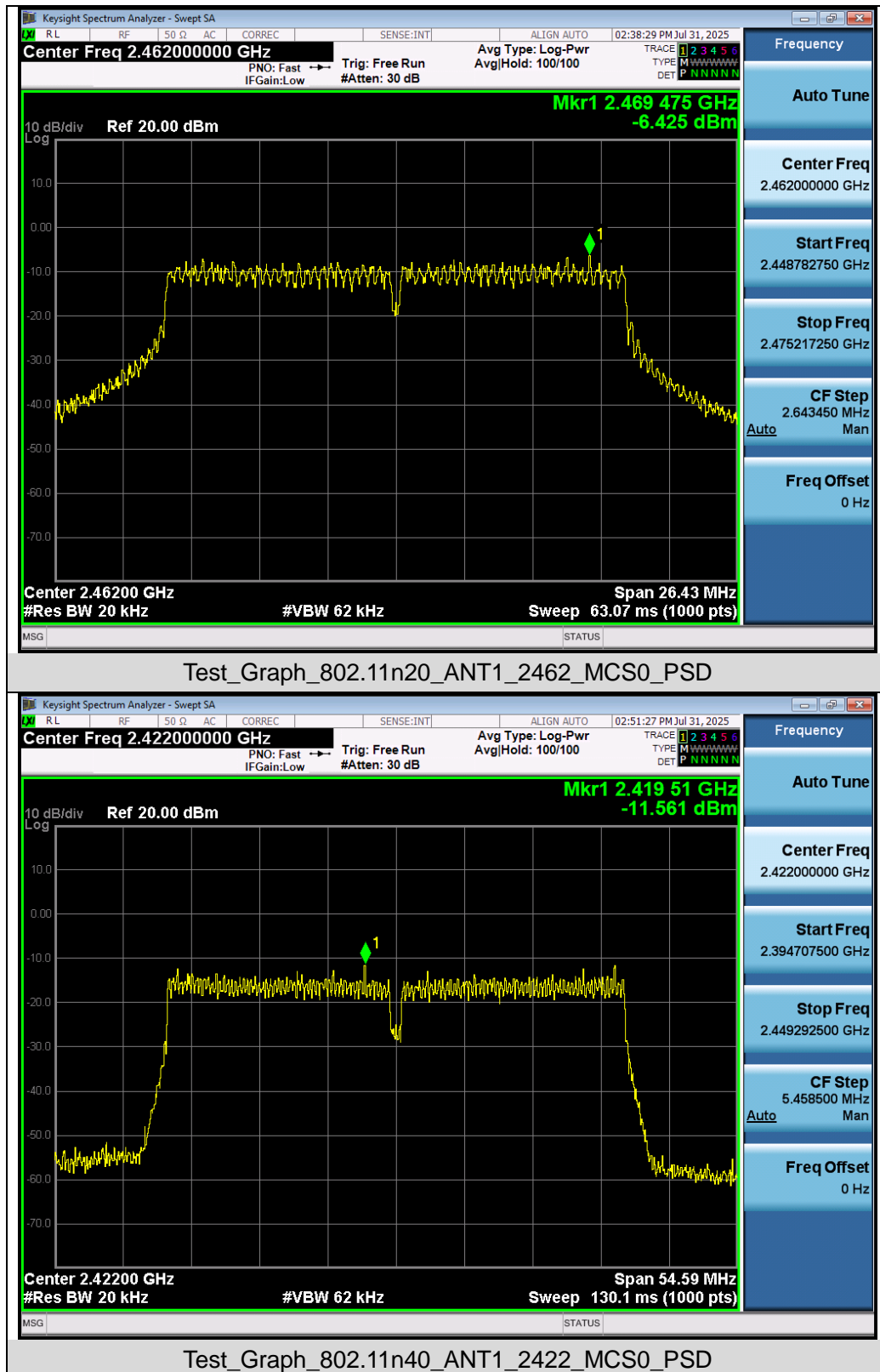
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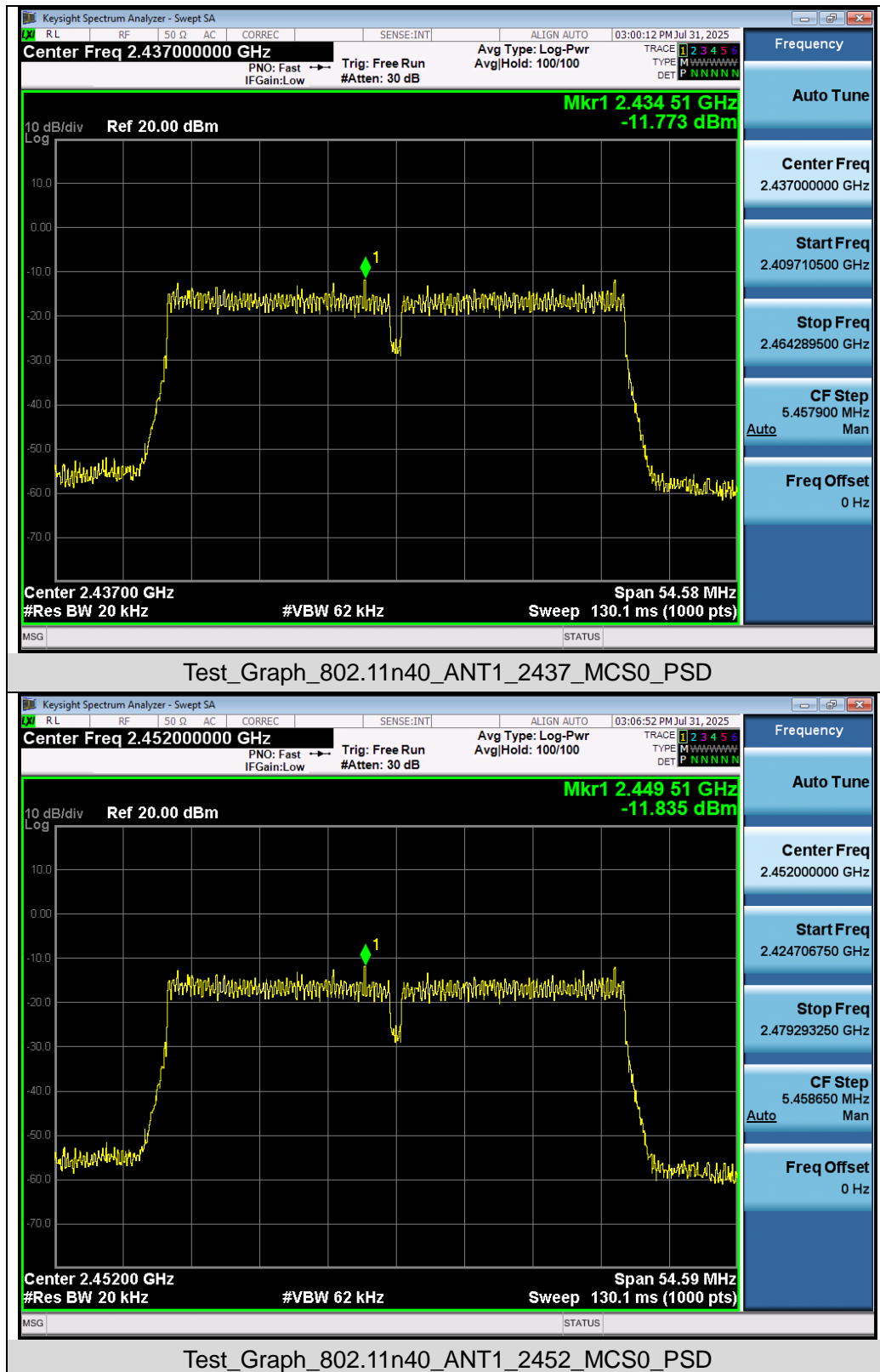
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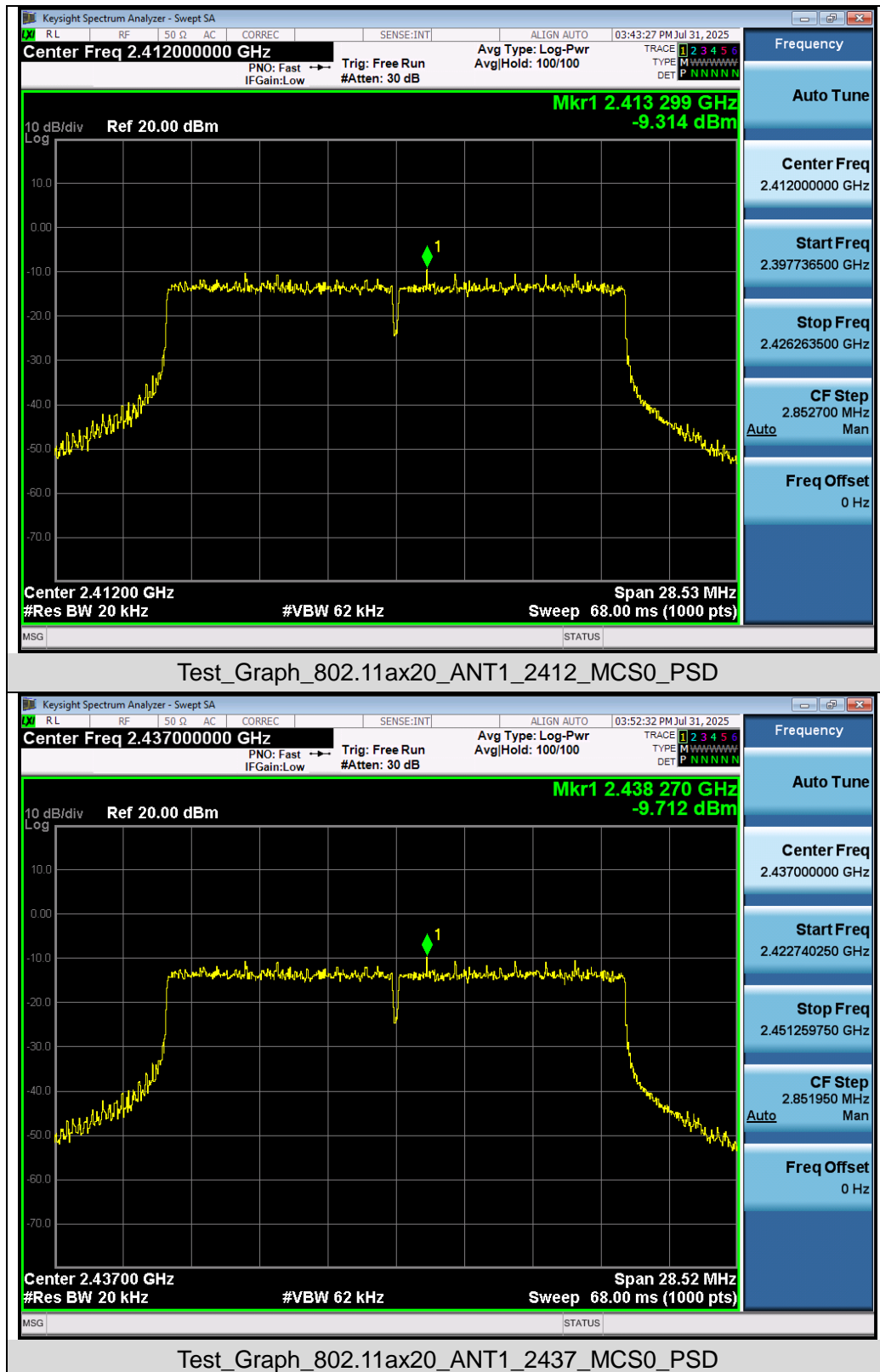


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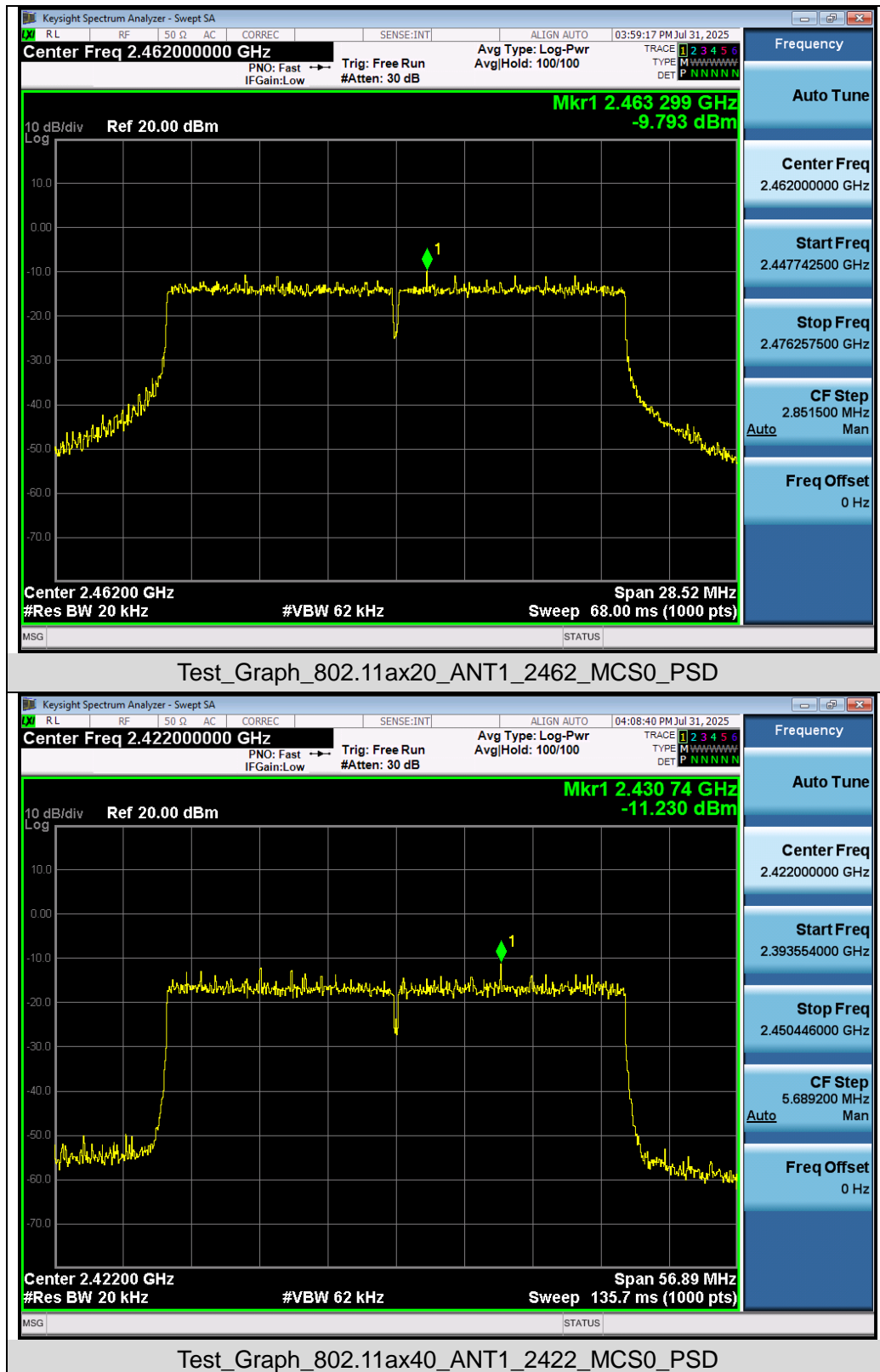
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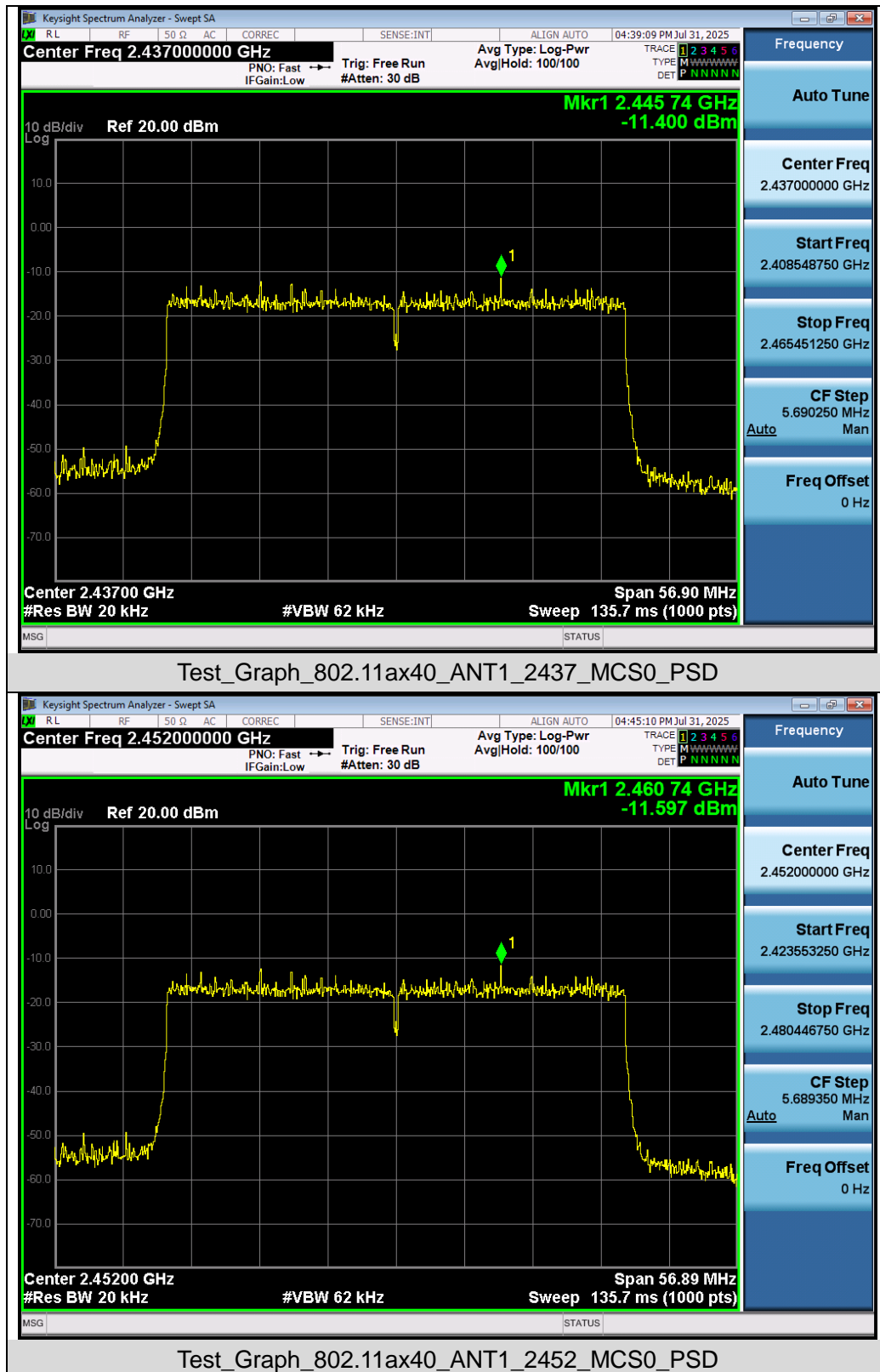
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## 10. Conducted Band Edge and Out-of-Band Emissions

### 10.1 Provisions Applicable

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

### 10.2 Measurement Procedure

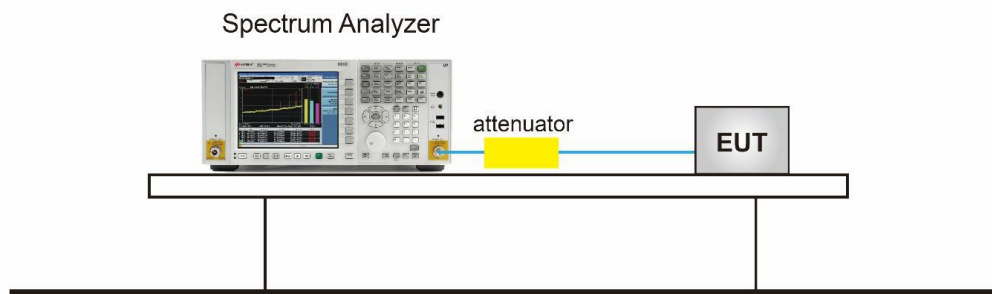
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

- Step 1: Measurement Procedure In-Band Reference Level
  1. Set instrument center frequency to DTS channel center frequency.
  2. Set the span to  $\geq 1.5$  times the DTS bandwidth.
  3. Set the RBW = 100 kHz.
  4. Set the VBW  $\geq 3 \times$  RBW.
  5. Detector = peak.
  6. Sweep time = auto couple.
  7. Trace mode = max hold.
  8. Allow trace to fully stabilize.
  9. Use the peak marker function to determine the maximum PSD level.
  10. Note that the channel found to contain the maximum PSD level can be used to establish the reference level.
  11. For reference level values, please refer to DTS bandwidth test.
- Step 2: Measurement Procedure Out of Band Emission
  1. Set RBW = 100 kHz.
  2. Set VBW  $\geq 300$  kHz.
  3. Detector = peak.
  4. Sweep = auto couple.
  5. Trace Mode = max hold.
  6. Allow trace to fully stabilize.
  7. Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

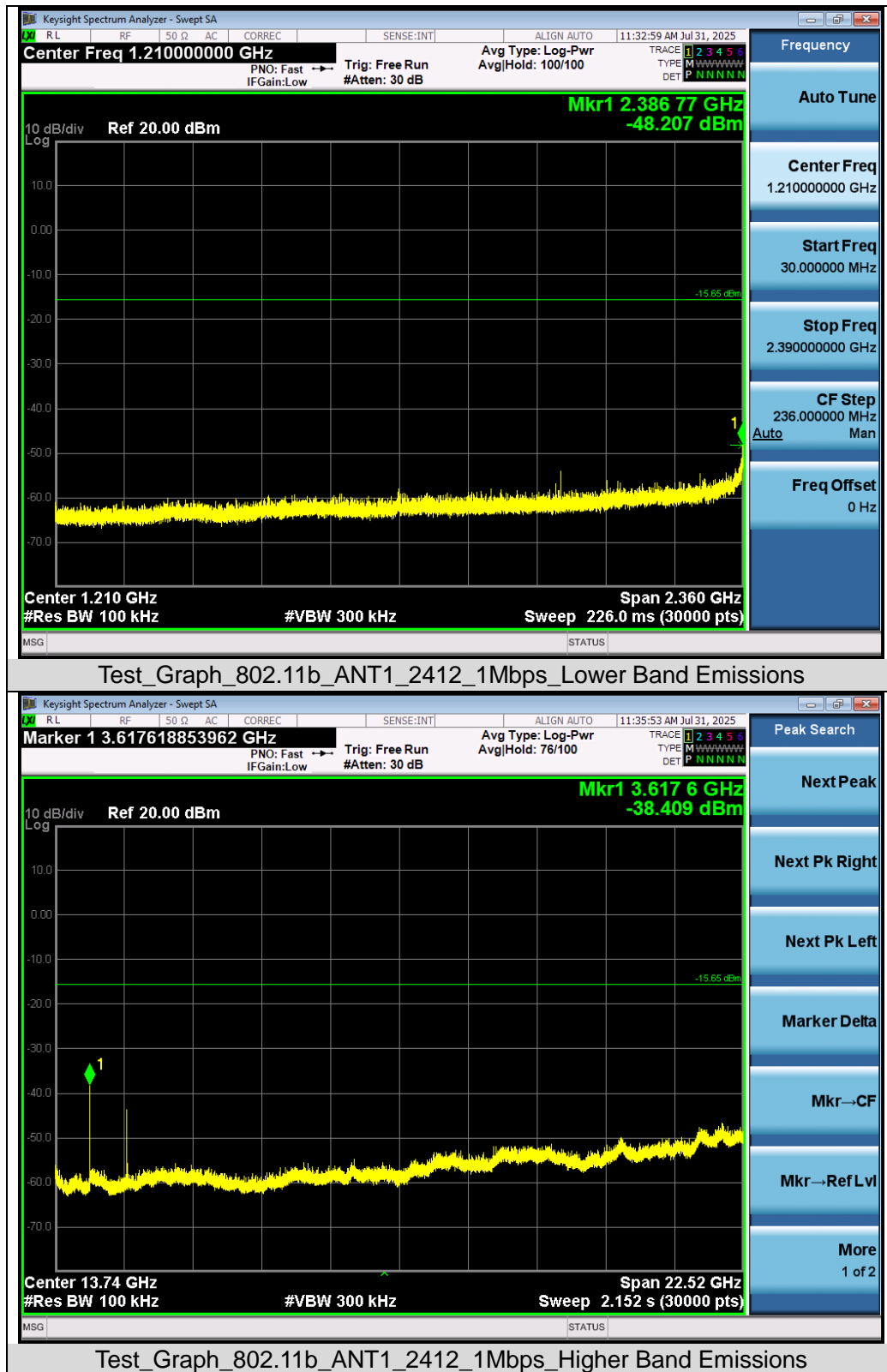
### 10.3 Measurement Setup (Block Diagram of Configuration)



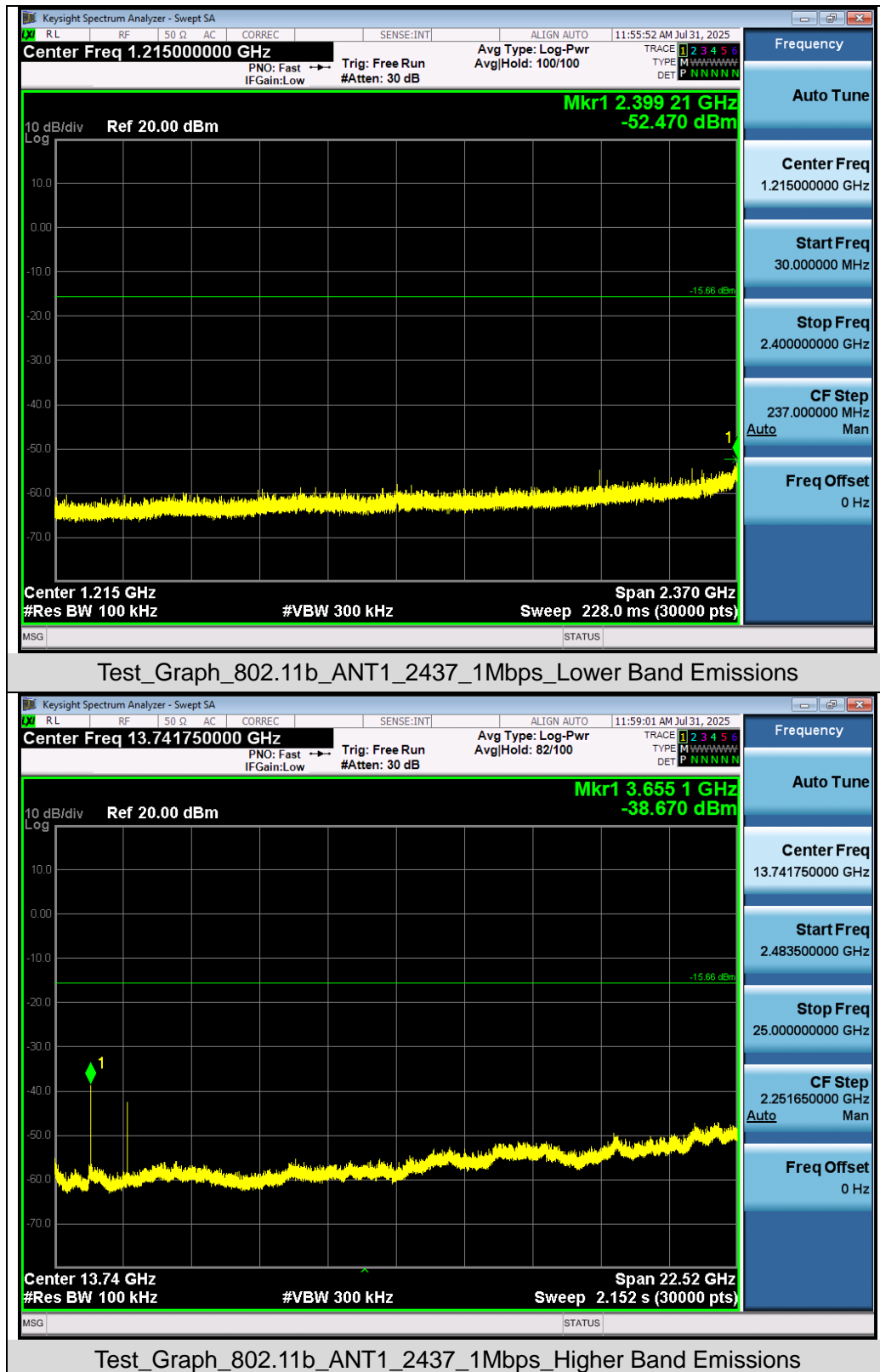
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## 10.4 Measurement Result

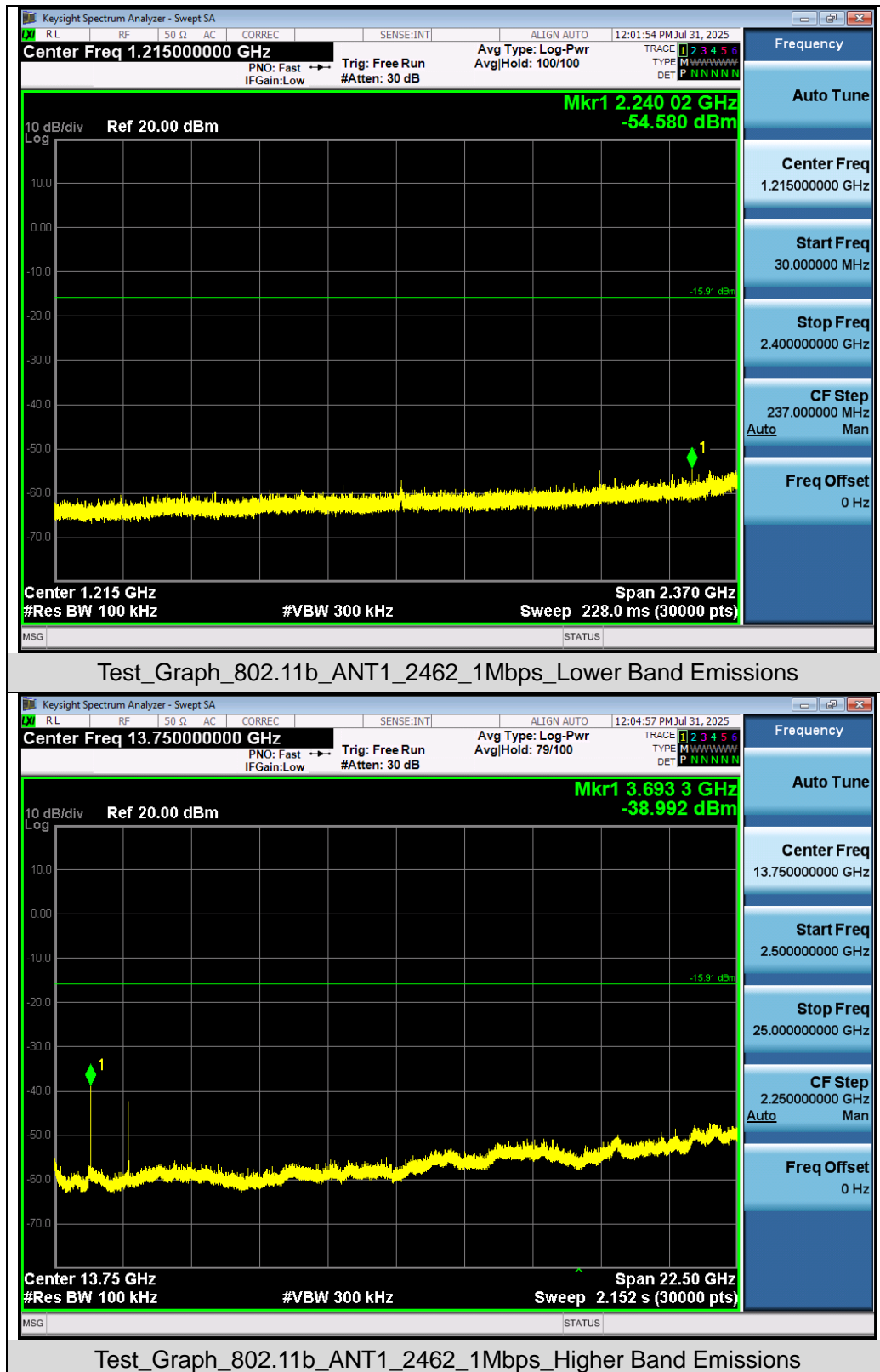
### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



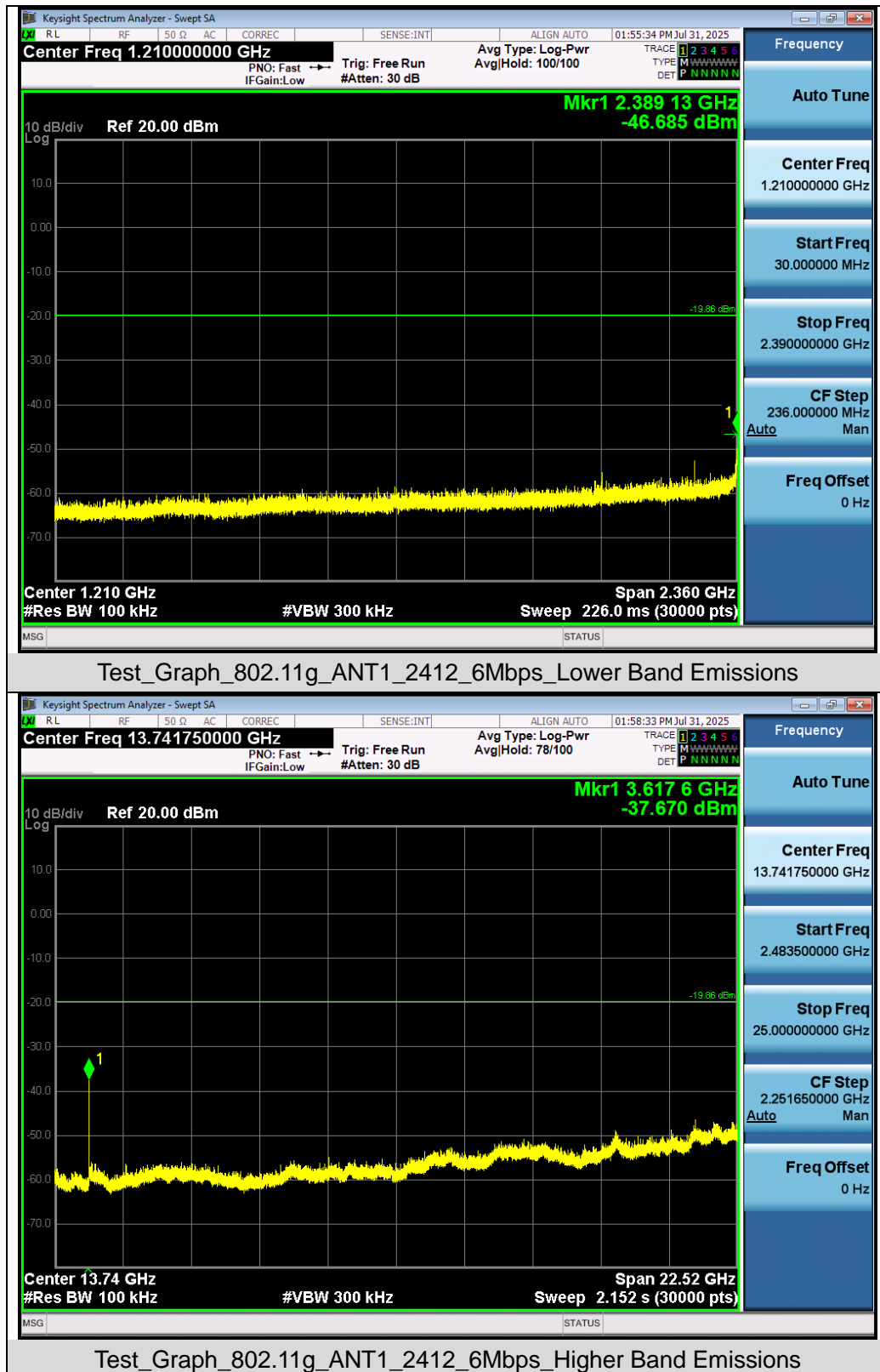
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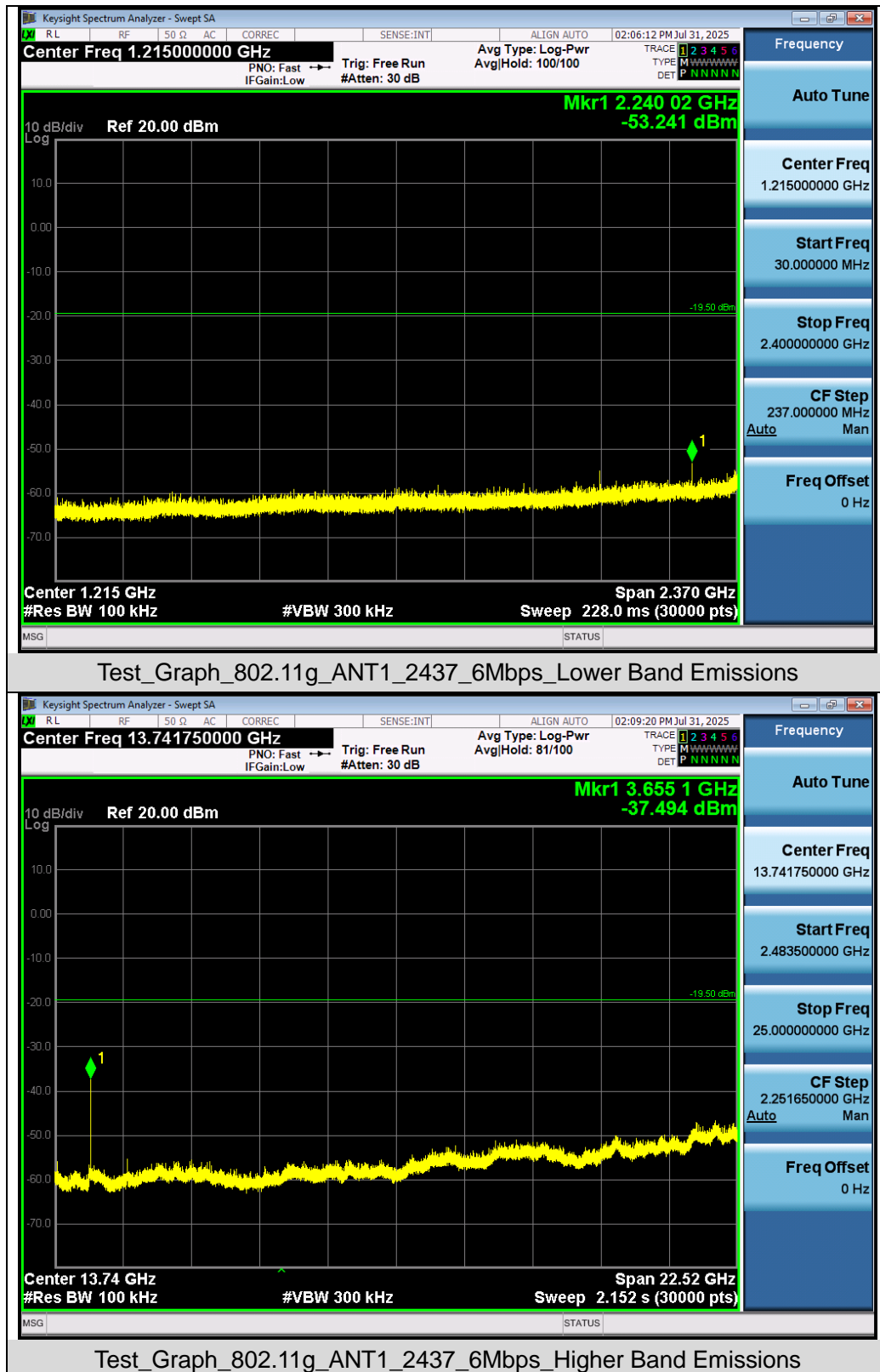
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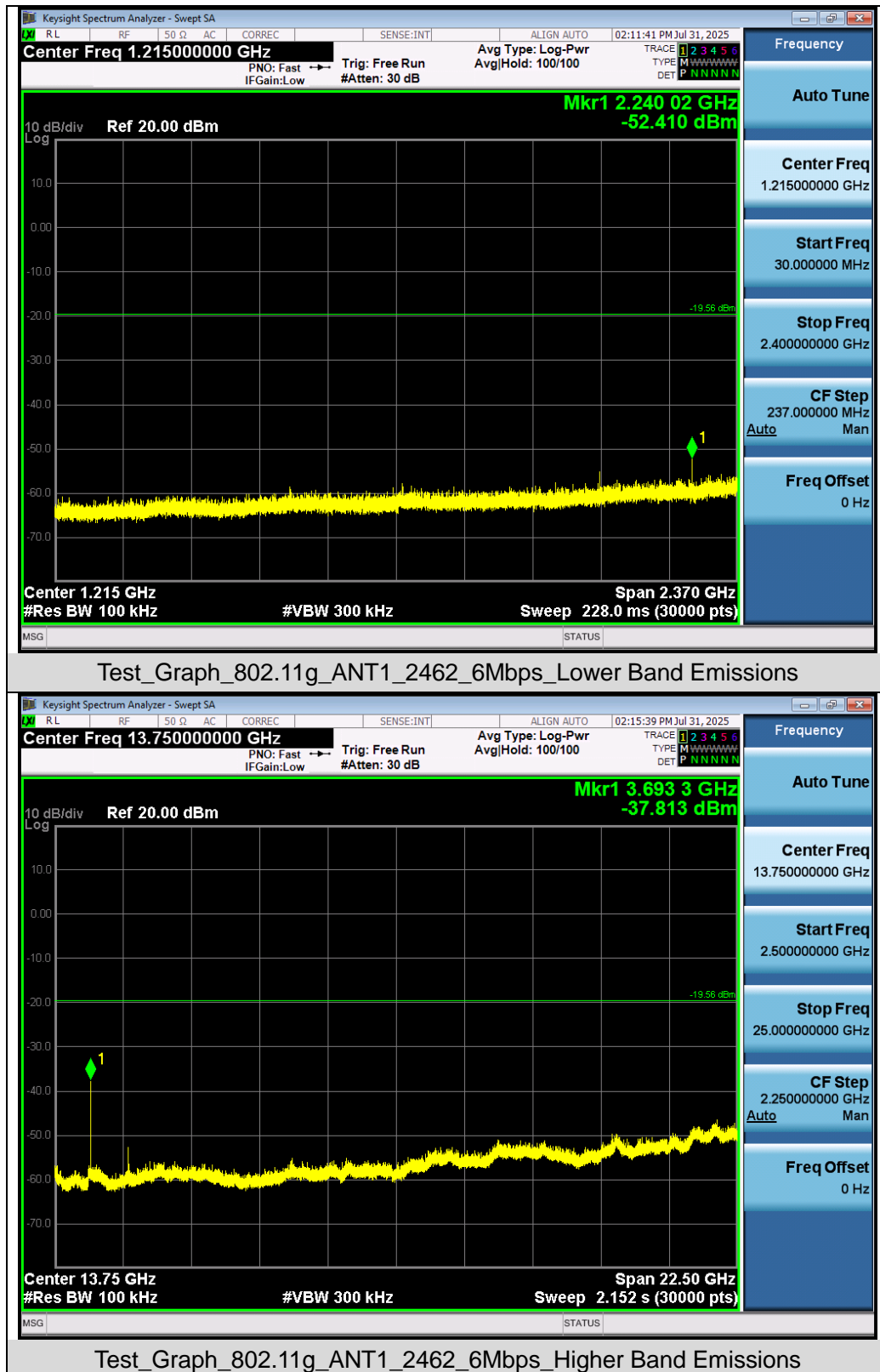
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