FCC Test Report

Report No.: AGC11034230802FR01

FCC ID	:	2AYHE-2306B
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	IP Camera
BRAND NAME	:	Reolink
MODEL NAME	:	RLC-810WA, B800W, B8M10WA
APPLICANT	:	Reolink Innovation Limited
DATE OF ISSUE	:	Sep. 14, 2023
STANDARD(S)	:	FCC Part 15 Subpart C §15.247
REPORT VERSION	:	V1.0

*A*ttestation of *G*lobal *C*ompliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 14, 2023	Valid	Initial Release

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1. General Information

Applicant	Reolink Innovation Limited
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Manufacturer	Reolink Innovation Limited
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Factory	Shenzhen Reolink Technology Co., Ltd
Address	2-4th Floor, Building 2, Yuanling Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China
Product Designation	IP Camera
Brand Name	Reolink
Test Model	RLC-810WA
Series Model(s)	B800W, B8M10WA
Difference Description	All the series models are the same as the test model except for the model names.
Date of receipt of test item	Aug. 08, 2023
Date of Test	Aug. 10, 2023~ Sep. 14, 2023
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	Bibo Zhang (Project Engineer)	Sep. 15, 2023
Reviewed By	Calvin Liu (Reviewer)	Sep. 15, 2023
Approved By	Max Zhang Authorized Officer	Sep. 15, 2023

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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:12.41dBm; IEEE 802.11g:11.65dBm; IEEE 802.11n(HT20):11.64dBm; IEEE 802.11n(HT40):11.59dBm IEEE 802.11ax (HE20):11.68dBm; IEEE 802.11ax (HE40):11.48dBm
Output Power (Peak)	IEEE 802.11b:15.17dBm; IEEE 802.11g:19.47dBm; IEEE 802.11n(HT20):19.53dBm; IEEE 802.11n(HT40):19.55dBm IEEE 802.11ax (HE20):20.36dBm; IEEE 802.11ax (HE40):20.15dBm
Output Power (MIMO- Average)	IEEE 802.11n(HT20):14.37dBm; IEEE 802.11n(HT40):14.28dBm IEEE 802.11ax (HE20):14.33dBm; IEEE 802.11ax (HE40):14.25dBm
Output Power (MIMO- Peak)	IEEE 802.11n(HT20):22.29dBm; IEEE 802.11n(HT40):22.25dBm IEEE 802.11ax (HE20):23.14dBm; IEEE 802.11ax (HE40):22.91dBm
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	M38C01-V100
Software Version	2577_23081100
Antenna Designation	Please refer to report section 2.10 description
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 support SISO, and 802.11n/ax support MIMO)
Power Supply	DC 12V

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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	Nss	Modulation	R	N_{BPSC}	N_{CBPS}		N_{DBPS}		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

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)		
								0.8μsGI	1.6μsGI	3.2μsGI
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	1404	936	68.8	65.0	58.5
6			3/4				1053	77.4	73.1	65.8
7			5/6				1170	86.0	81.3	73.1
8		256-QAM	3/4	8		1872	1404	103.2	97.5	87.8
9			5/6				1560	114.7	108.3	97.5
10		1024-QAM	3/4	10		2340	1755	129.0	121.9	109.7
11			5/6				1950	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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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)		
								0.8μsGI	1.6μsGI	3.2μsGI
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	1872	936	68.8	65.0	58.5
4	1		3/4		234	936	702	51.6	48.8	43.9
	0		3/4		468	1872	1404	103.2	97.5	87.8
5	N/A	64-QAM	2/3	6	468	2808	1872	137.6	130.0	117.0
6			3/4				2106	154.9	146.3	131.6
7			5/6				2340	172.1	162.5	146.3
8		256-QAM	3/4	8		3744	2808	206.5	195.0	175.5
9			5/6				3120	229.4	216.7	195.0
10		1024-QAM	3/4	10		4680	3510	258.1	243.8	219.4
11			5/6				3900	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: 2AYHE-2306B**,** filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

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 SMA Antenna List (2.4GHz 2*2 MIMO)						
SMA Antenna	2400~2483.5	2	20, 40	3.95	3.95	6.96

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:

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

- For power measurements on IEEE 802.1devices:

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

  Array Gain = 0 dB (i.e., no array gain) for channel widths ≥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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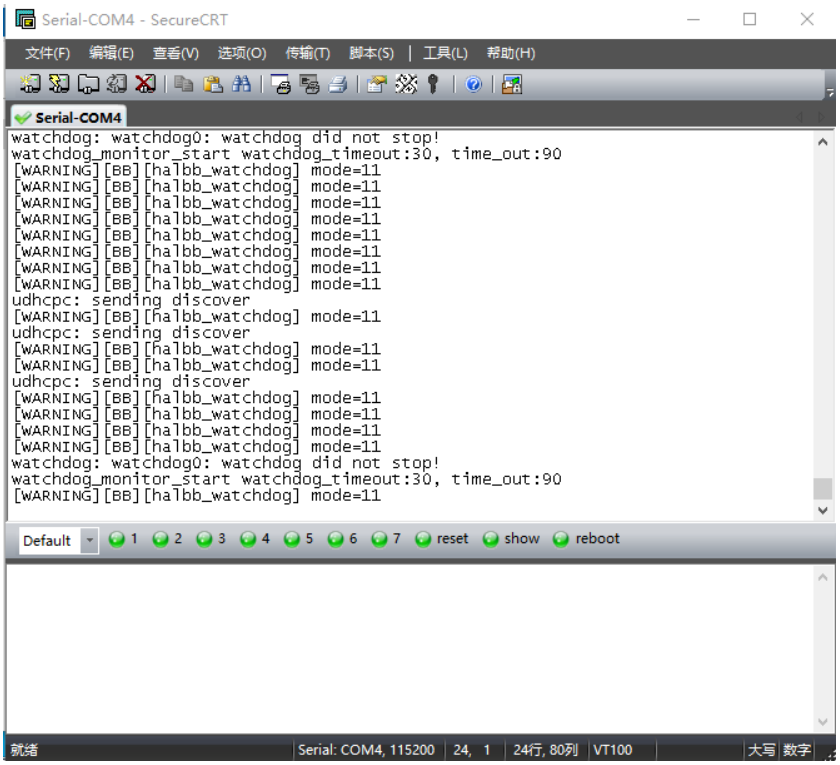
2.11 Description of Test Software

For IEEE 802.11 mode:

The test utility software used during testing was “SecureCRT”, and the version was “7.1.264”.

Software Setting Diagram



Test Mode	Channel	Power Index	
		Chain 1	Chain 2
802.11b	L/M/H	13	13
802.11g	L/M/H	12	12
802.11n-HT20	L/M/H	12	12
802.11ax-HE20	L/M/H	12	12
802.11n-HT40	L/M/H	12	12
802.11ax-HE40	L/M/H	12	12

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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 (℃)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106

3.4 Measurement Uncertainty

The reported uncertainty of measurement y±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 = ±2.9 dB
Uncertainty of Radiated Emission below 1GHz	U_c = ±3.9 dB
Uncertainty of Radiated Emission above 1GHz	U_c = ±4.9 dB
Uncertainty of total RF power, conducted	U_c = ±0.8 dB
Uncertainty of RF power density, conducted	U_c = ±2.6 dB
Uncertainty of spurious emissions, conducted	U_c = ±2 %
Uncertainty of Occupied Channel Bandwidth	U_c = ±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)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023-06-01	2024-05-31
☒	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2023-03-03	2024-03-02
☒	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2023-03-03	2024-03-02
☒	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
☐	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2023-06-01	2024-05-31
☒	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● 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)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023-02-18	2024-02-17
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023-06-03	2024-06-02
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2022-03-12	2024-03-11
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2023-03-23	2024-03-22
☐	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2021-10-31	2023-10-30
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03
☒	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2023-06-01	2024-05-31
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08

● 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)
☒	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2023-06-03	2024-06-02
☒	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2023-06-03	2024-06-02
☒	AGC-EM-A130	6dB Attenuator	Eeatsheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2024-06-08

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

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4.System Test Configuration

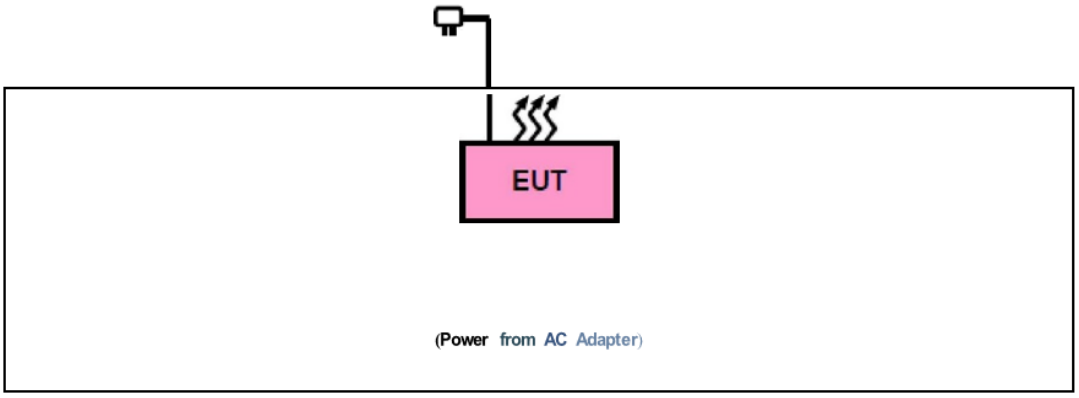
4.1 EUT Configuration

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



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	Model No.	Specification Information	Note
-	-	-	-	-

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Specification Information	Note
1	IP Camera	RLC-810WA	2AYHE-2306B	EUT
2	Adapter	DCT24W120200US-A0	Input: AC 100-240V 50/60Hz, 0.7A Max Output: DC 12V 2.0A	Test Peripheral

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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 & 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 Mode 13: 802.11n-HT40_TX CH03_2422 MHz_MCS0 Mbps Mode 14: 802.11n-HT40_TX CH06_2437 MHz_ MCS0 Mbps Mode 15: 802.11n-HT40_TX CH09_2452 MHz_ MCS0 Mbps Mode 16: 802.11ax-HE40_TX CH03_2422 MHz_MCS0 Mbps Mode 17: 802.11ax-HE40_TX CH06_2437 MHz_ MCS0 Mbps Mode 18: 802.11ax-HE40_TX CH09_2452 MHz_ MCS0 Mbps
AC Conducted Emission	Mode 1: 2.4G WLAN Link + Battery + USB Cable (Charging from AC Adapter)

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. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
4. All modes and antennas in the radiation spurious test are pre-scanned. When there is no MIMO technology mode, antenna 1 is evaluated. When there is MIMO technology mode, antenna 1 + antenna 2 are evaluated as the worst data.

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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 = Peak. 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)	1/ T Minimum VBW (kHz)	Average Factor (dB)
IEEE 802.11b	1	100	-	-	-
IEEE 802.11g	6	100	-	-	-
IEEE 802.11n-HT20	MCS0	100	-	-	-
IEEE 802.11n-HT40	MCS0	100	-	-	-
IEEE 802.11ax-HE20	MCS0	100	-	-	-
IEEE 802.11ax-HE40	MCS0	100	-	-	-

Remark:

1. Duty Cycle factor = 10 * log (1/ Duty cycle)
2. Average factor = 20 log10 Duty Cycle
3. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value.

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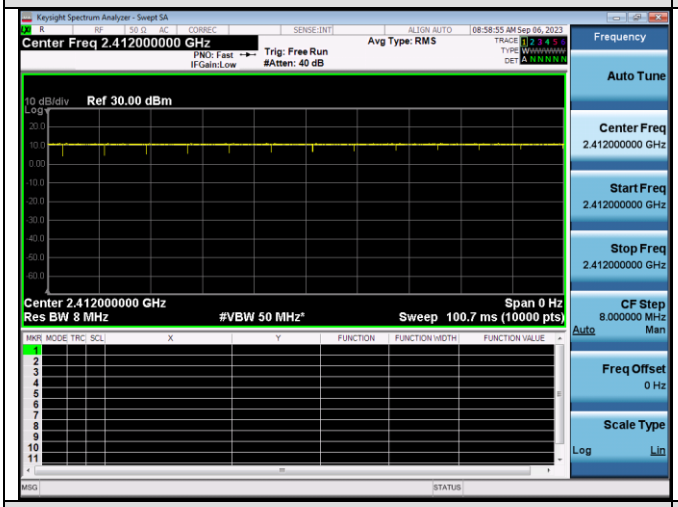
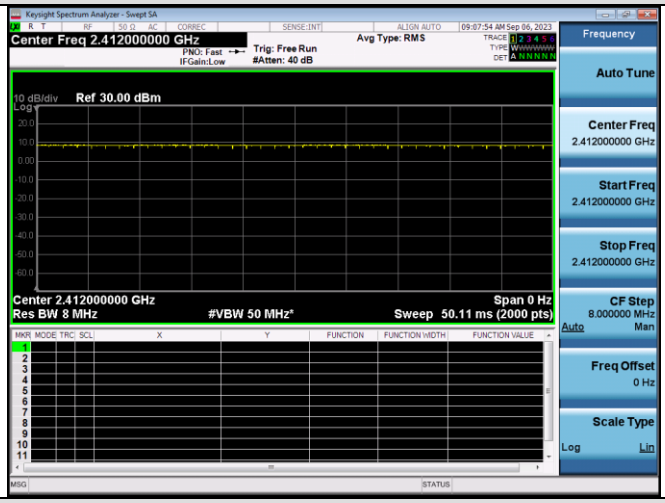
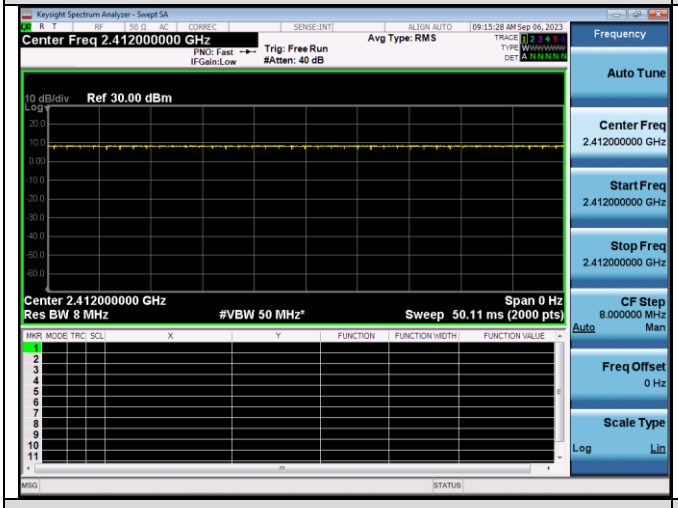
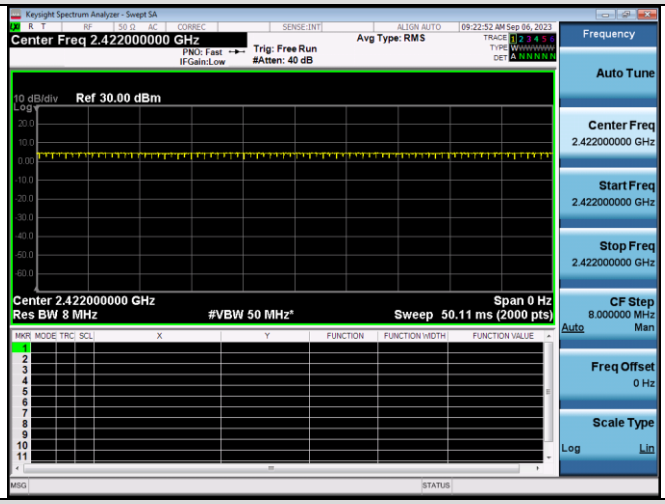
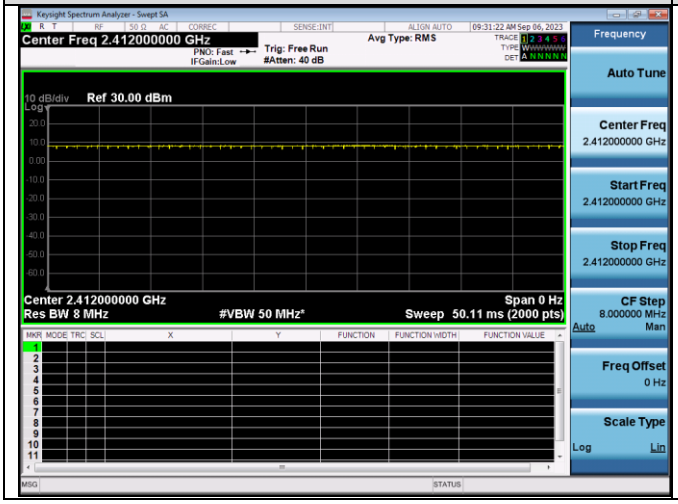
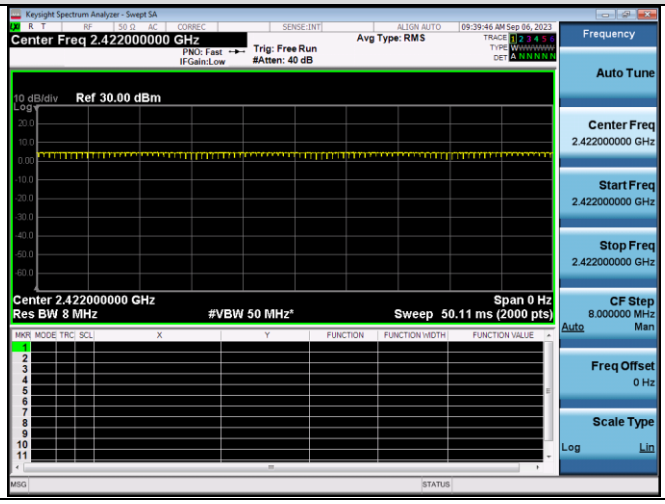
The test plots as follows:

IEEE 802.11b	IEEE 802.11g
	
IEEE 802.11n-HT20	**IEEE 802.11n-HT40**
	
IEEE 802.11ax-HE20	**IEEE 802.11ax-HE40**
	

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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

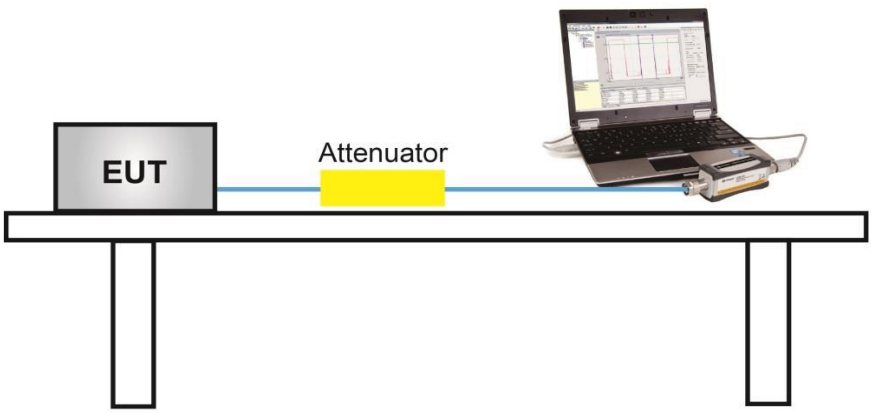
☒Method PM is Measurement using an RF Peak power meter. The procedure for this method is as follows:

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 average 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-Antenna 1					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	12.12	14.95	⩽30	Pass
	2437	12.41	15.17	⩽30	Pass
	2462	12.10	14.72	⩽30	Pass
802.11g	2412	11.46	19.32	⩽30	Pass
	2437	11.65	19.47	⩽30	Pass
	2462	11.52	19.39	⩽30	Pass
802.11n20	2412	11.48	19.38	⩽30	Pass
	2437	11.64	19.53	⩽30	Pass
	2462	11.49	19.43	⩽30	Pass
802.11n40	2422	11.42	19.37	⩽30	Pass
	2437	11.59	19.55	⩽30	Pass
	2452	11.52	19.47	⩽30	Pass
802.11ax20	2412	11.61	20.36	⩽30	Pass
	2437	11.68	20.33	⩽30	Pass
	2462	11.49	20.29	⩽30	Pass
802.11ax40	2422	11.37	20.05	⩽30	Pass
	2437	11.48	20.15	⩽30	Pass
	2452	11.36	20.05	⩽30	Pass

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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	11.81	14.70	⩽30	Pass
	2437	12.23	14.79	⩽30	Pass
	2462	11.80	14.54	⩽30	Pass
802.11g	2412	10.97	18.85	⩽30	Pass
	2437	11.10	18.93	⩽30	Pass
	2462	10.99	18.82	⩽30	Pass
802.11n20	2412	10.98	18.93	⩽30	Pass
	2437	11.05	19.01	⩽30	Pass
	2462	10.90	18.86	⩽30	Pass
802.11n40	2422	10.73	18.71	⩽30	Pass
	2437	10.93	18.91	⩽30	Pass
	2452	10.89	18.85	⩽30	Pass
802.11ax20	2412	11.00	19.86	⩽30	Pass
	2437	11.08	19.93	⩽30	Pass
	2462	10.94	19.79	⩽30	Pass
802.11ax40	2422	10.84	19.51	⩽30	Pass
	2437	10.98	19.63	⩽30	Pass
	2452	10.86	19.54	⩽30	Pass

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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	14.25	22.17	⩽30	Pass
	2437	14.37	22.29	⩽30	Pass
	2462	14.22	22.16	⩽30	Pass
802.11n40	2422	14.10	22.06	⩽30	Pass
	2437	14.28	22.25	⩽30	Pass
	2452	14.23	22.18	⩽30	Pass
802.11ax20	2412	14.33	23.13	⩽30	Pass
	2437	14.40	23.14	⩽30	Pass
	2462	14.23	23.06	⩽30	Pass
802.11ax40	2422	14.12	22.80	⩽30	Pass
	2437	14.25	22.91	⩽30	Pass
	2452	14.13	22.81	⩽30	Pass

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8. 6dB Bandwidth Measurement

8.1 Provisions Applicable

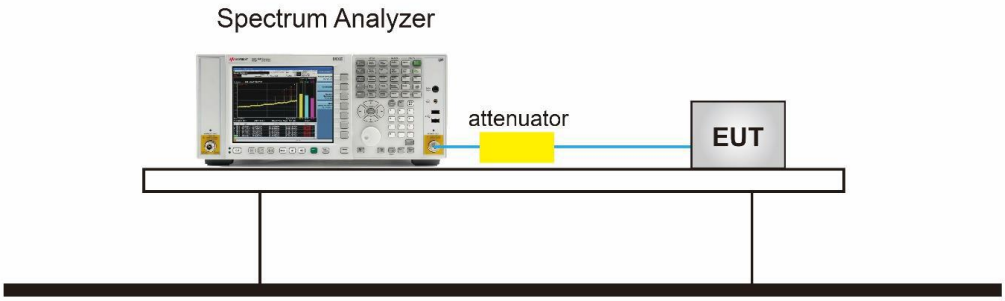
The minimum 6dB bandwidth shall be 500 kHz.

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 emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * 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 Results

Test Data of Occupied Bandwidth and DTS Bandwidth-Antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	DTS Bandwidth Limits (MHz)	Pass or Fail
802.11b	2412	14.910	11.060	⩾0.5	Pass
	2437	14.881	11.080	⩾0.5	Pass
	2462	14.875	10.120	⩾0.5	Pass
802.11g	2412	16.327	16.340	⩾0.5	Pass
	2437	16.332	16.323	⩾0.5	Pass
	2462	16.327	16.326	⩾0.5	Pass
802.11n20	2412	17.480	17.539	⩾0.5	Pass
	2437	17.482	17.539	⩾0.5	Pass
	2462	17.483	17.546	⩾0.5	Pass
802.11n40	2422	36.085	36.343	⩾0.5	Pass
	2437	36.085	36.319	⩾0.5	Pass
	2452	36.086	36.351	⩾0.5	Pass
802.11ax20	2412	18.867	18.283	⩾0.5	Pass
	2437	18.871	18.295	⩾0.5	Pass
	2462	18.870	18.470	⩾0.5	Pass
802.11ax40	2422	37.709	37.944	⩾0.5	Pass
	2437	37.723	37.930	⩾0.5	Pass
	2452	37.724	37.946	⩾0.5	Pass

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Test Data of Occupied Bandwidth and DTS Bandwidth-Antenna 2					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	DTS Bandwidth Limits (MHz)	Pass or Fail
802.11b	2412	14.915	12.019	⩾0.5	Pass
	2437	14.936	10.119	⩾0.5	Pass
	2462	14.921	11.084	⩾0.5	Pass
802.11g	2412	16.337	16.328	⩾0.5	Pass
	2437	16.334	16.336	⩾0.5	Pass
	2462	16.332	16.335	⩾0.5	Pass
802.11n20	2412	17.465	17.552	⩾0.5	Pass
	2437	17.469	17.303	⩾0.5	Pass
	2462	17.471	17.545	⩾0.5	Pass
802.11n40	2422	36.067	36.343	⩾0.5	Pass
	2437	36.079	36.348	⩾0.5	Pass
	2452	36.085	36.354	⩾0.5	Pass
802.11ax20	2412	18.870	18.490	⩾0.5	Pass
	2437	18.877	18.621	⩾0.5	Pass
	2462	18.881	18.612	⩾0.5	Pass
802.11ax40	2422	37.716	37.939	⩾0.5	Pass
	2437	37.707	37.937	⩾0.5	Pass
	2452	37.726	37.946	⩾0.5	Pass

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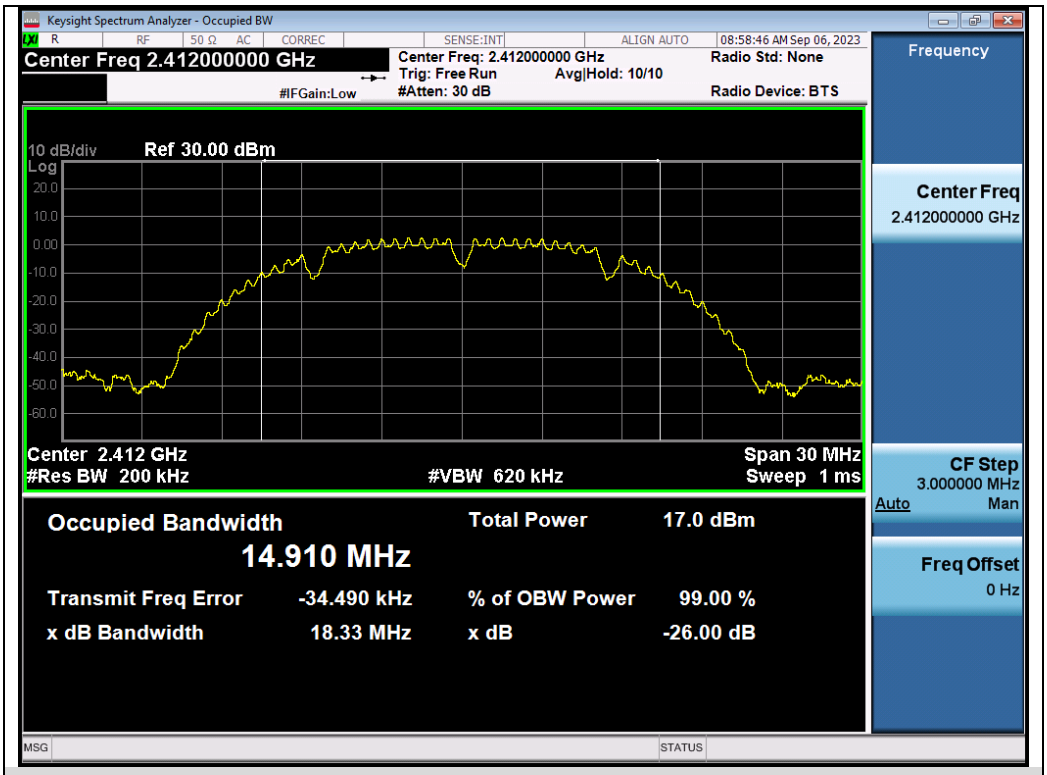
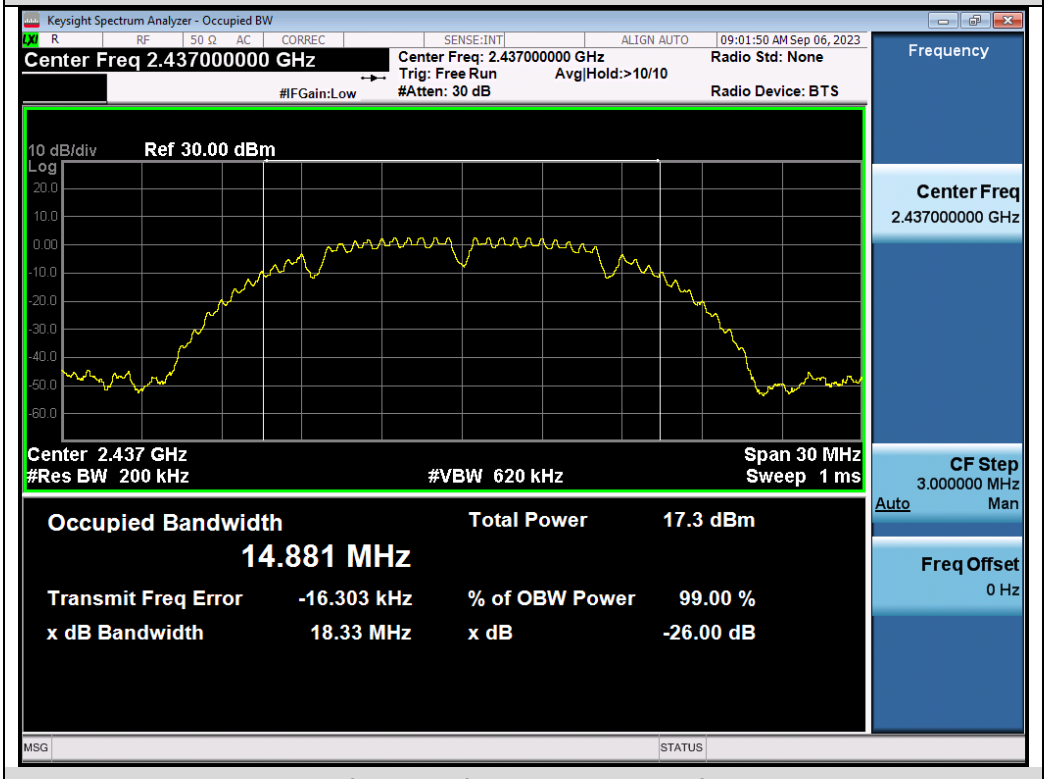
Test Graphs of Occupied Bandwidth



Test_Graph_802.11b_ANT1_2412_1Mbps_OBW



Test_Graph_802.11b_ANT1_2437_1Mbps_OBW

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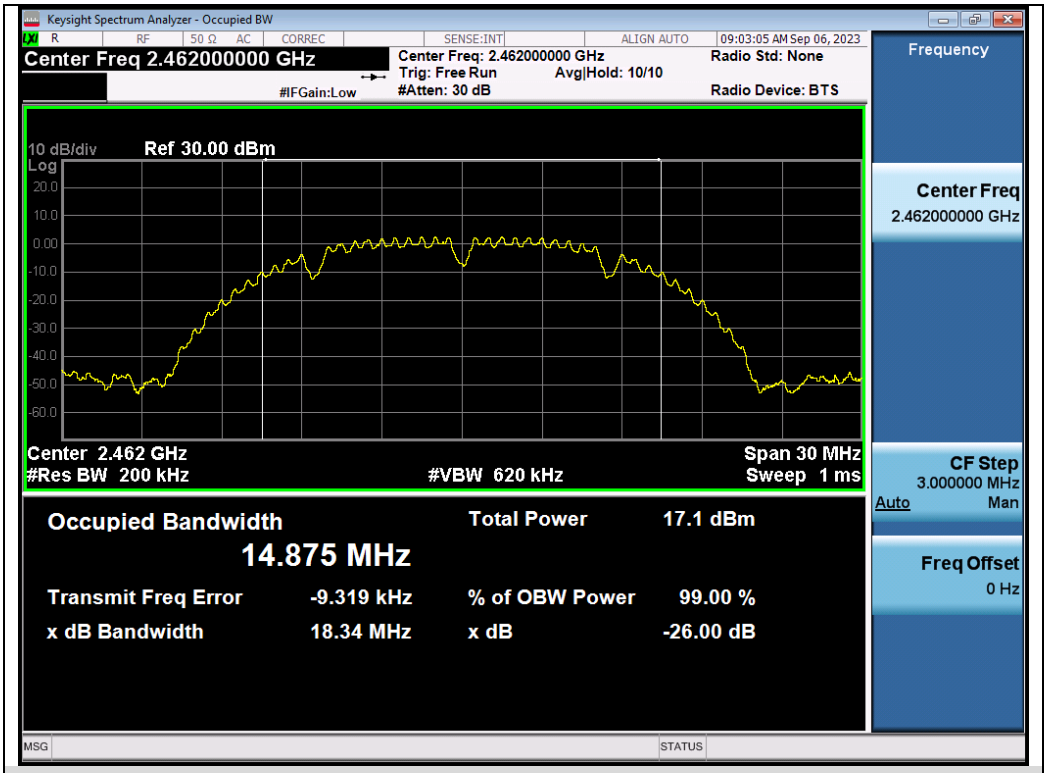
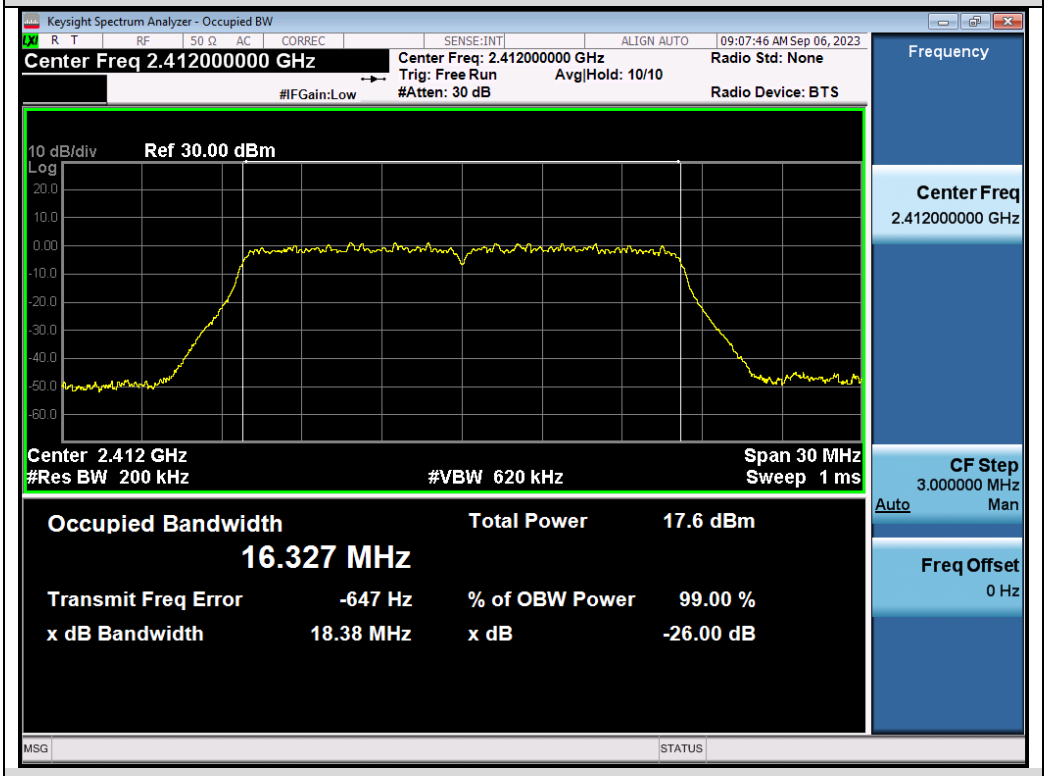


Test_Graph_802.11b_ANT1_2462_1Mbps_OBW



Test_Graph_802.11g_ANT1_2412_6Mbps_OBW

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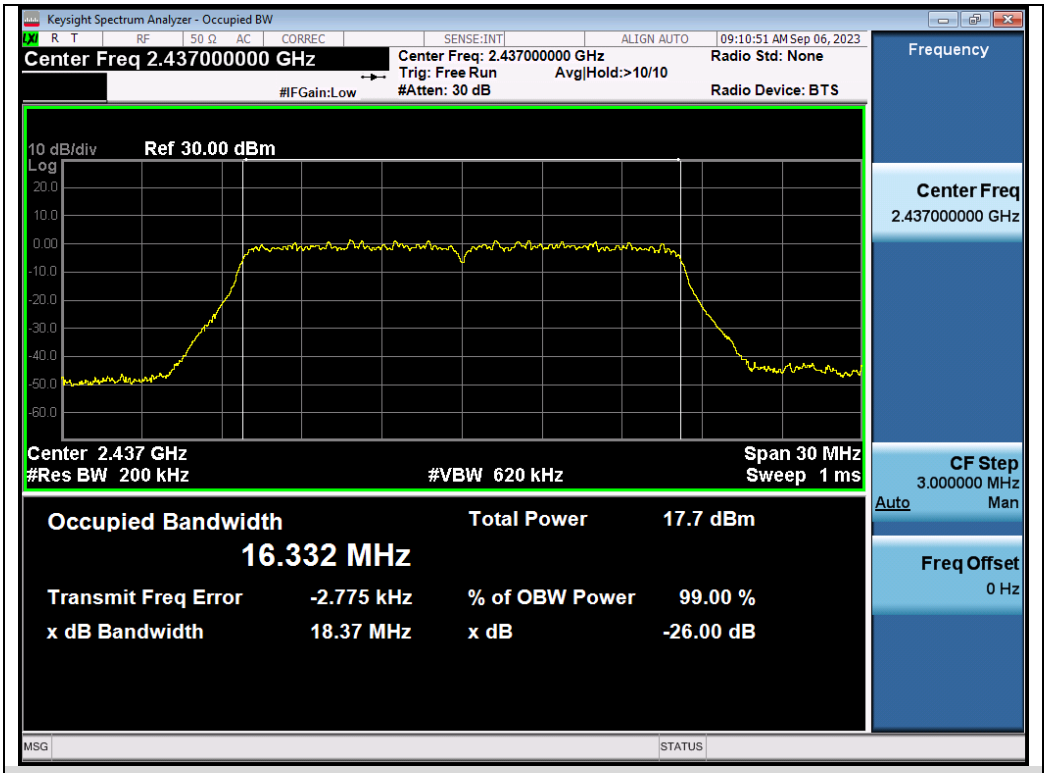
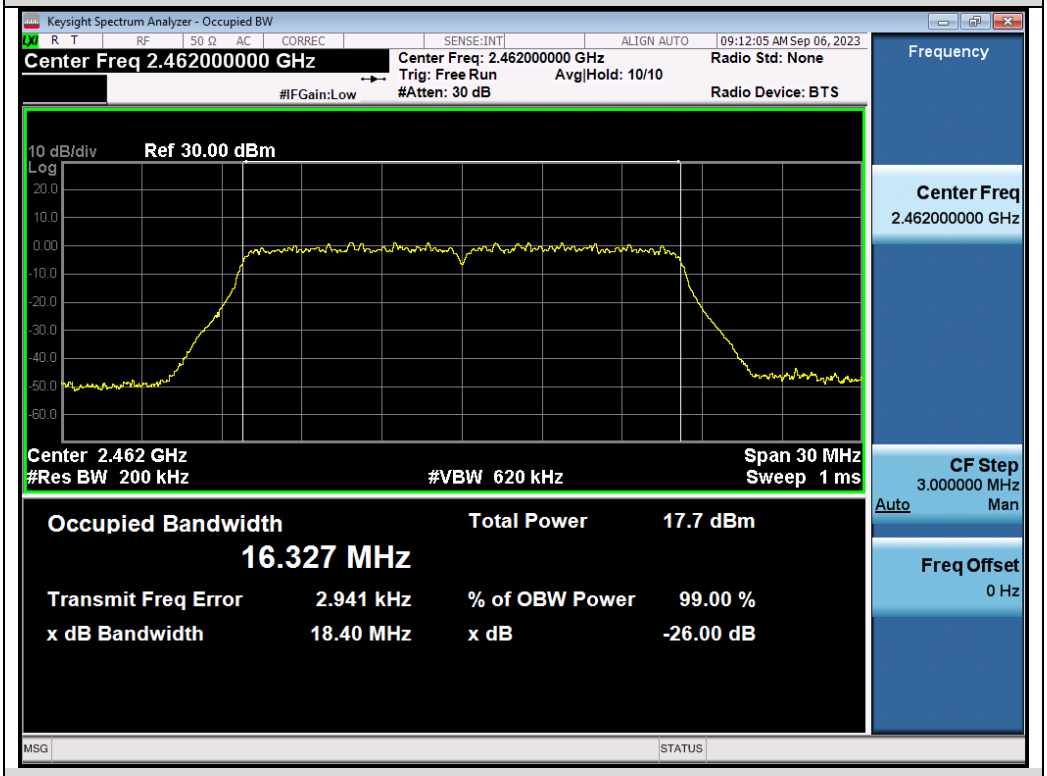


Test_Graph_802.11g_ANT1_2437_6Mbps_OBW



Test_Graph_802.11g_ANT1_2462_6Mbps_OBW

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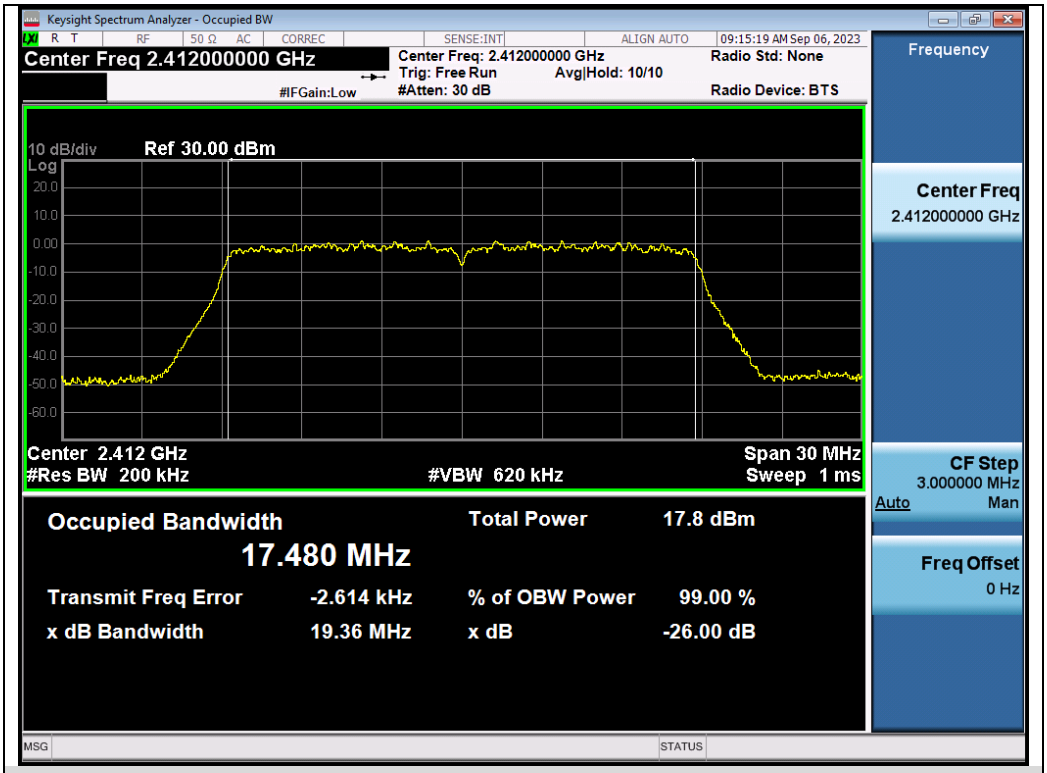
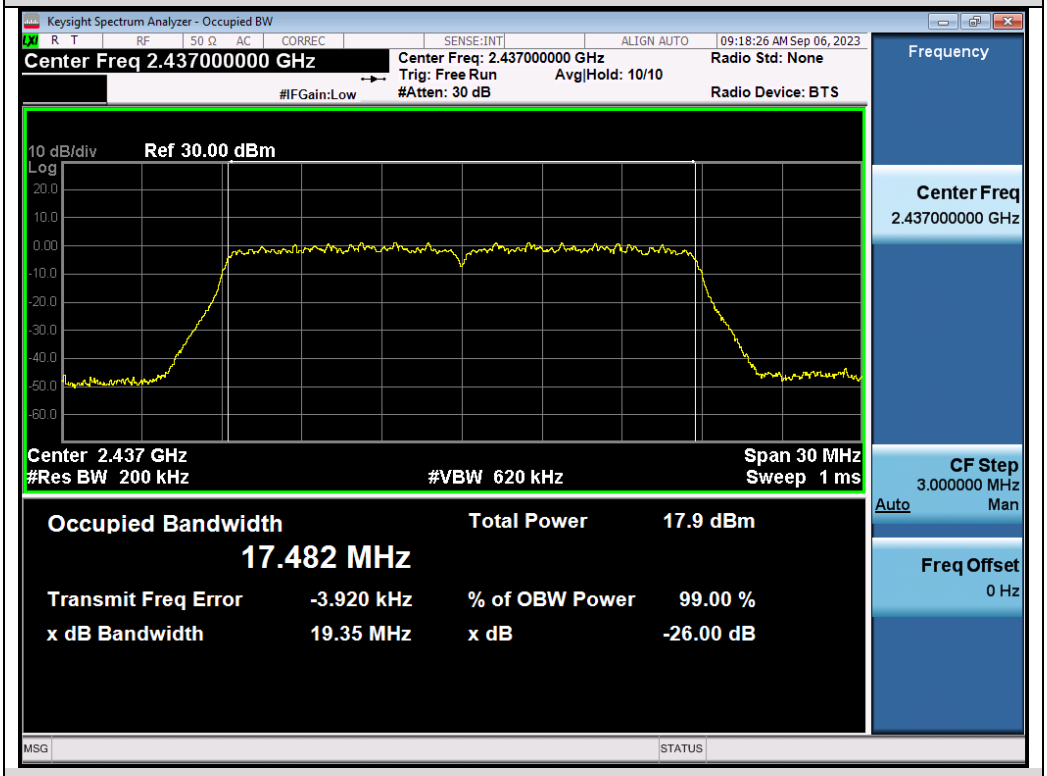


Test_Graph_802.11n20_ANT1_2412_MCS0_OBW



Test_Graph_802.11n20_ANT1_2437_MCS0_OBW

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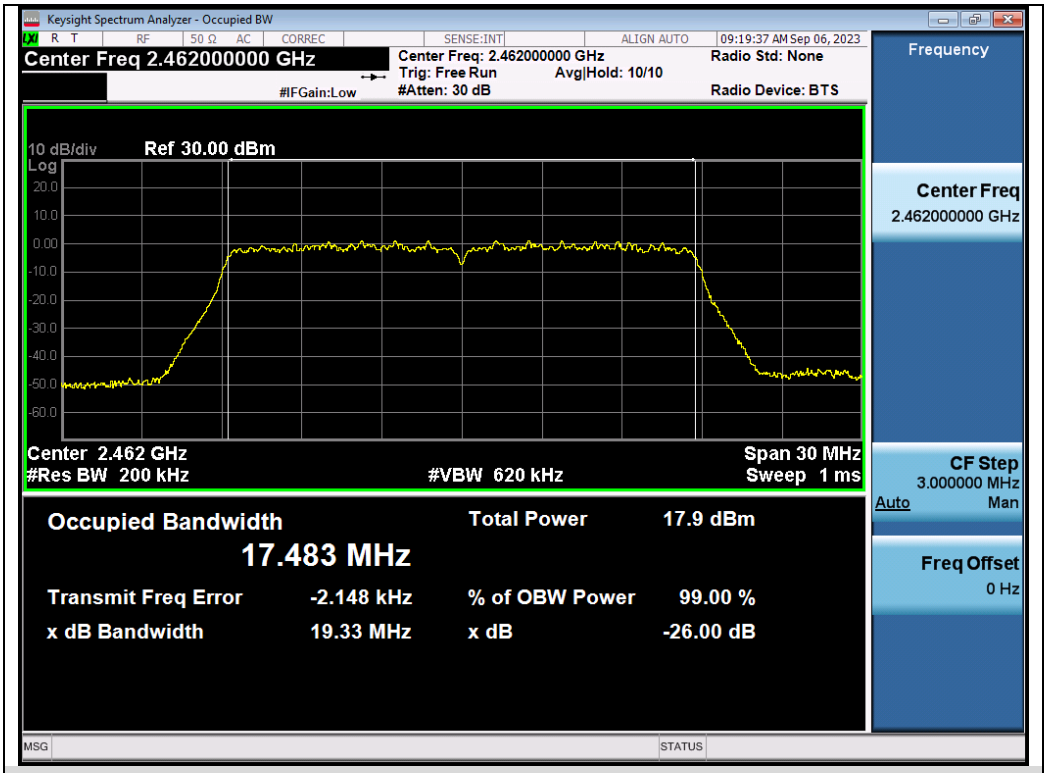
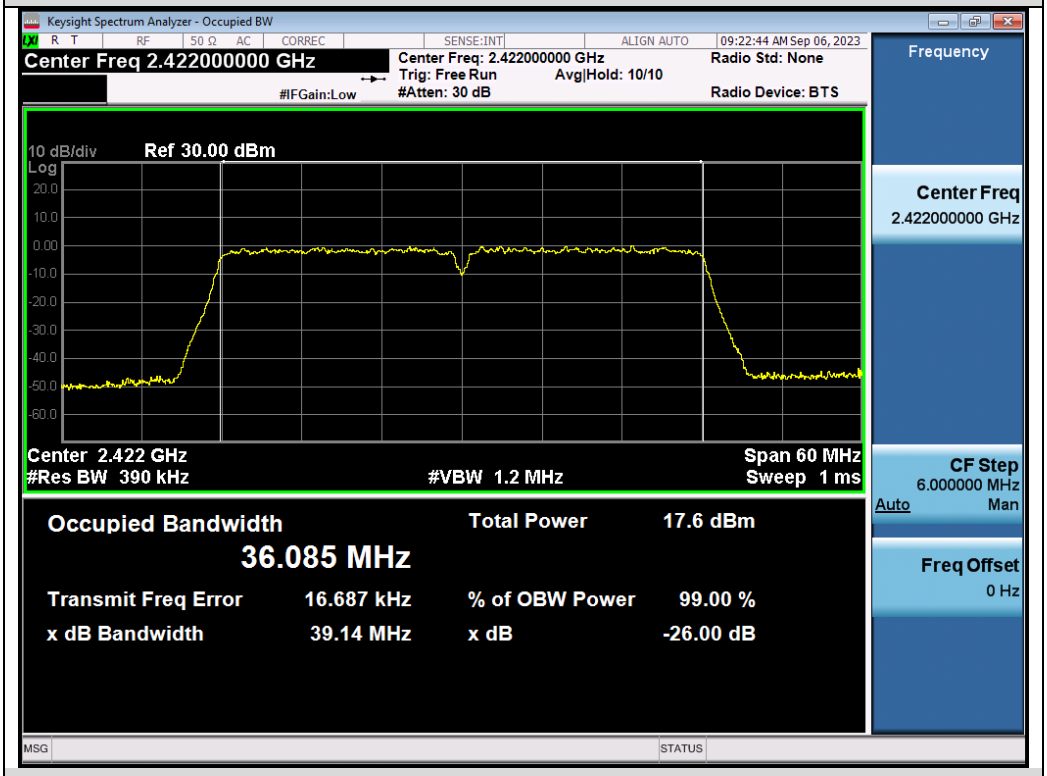


Test_Graph_802.11n20_ANT1_2462_MCS0_OBW



Test_Graph_802.11n40_ANT1_2422_MCS0_OBW

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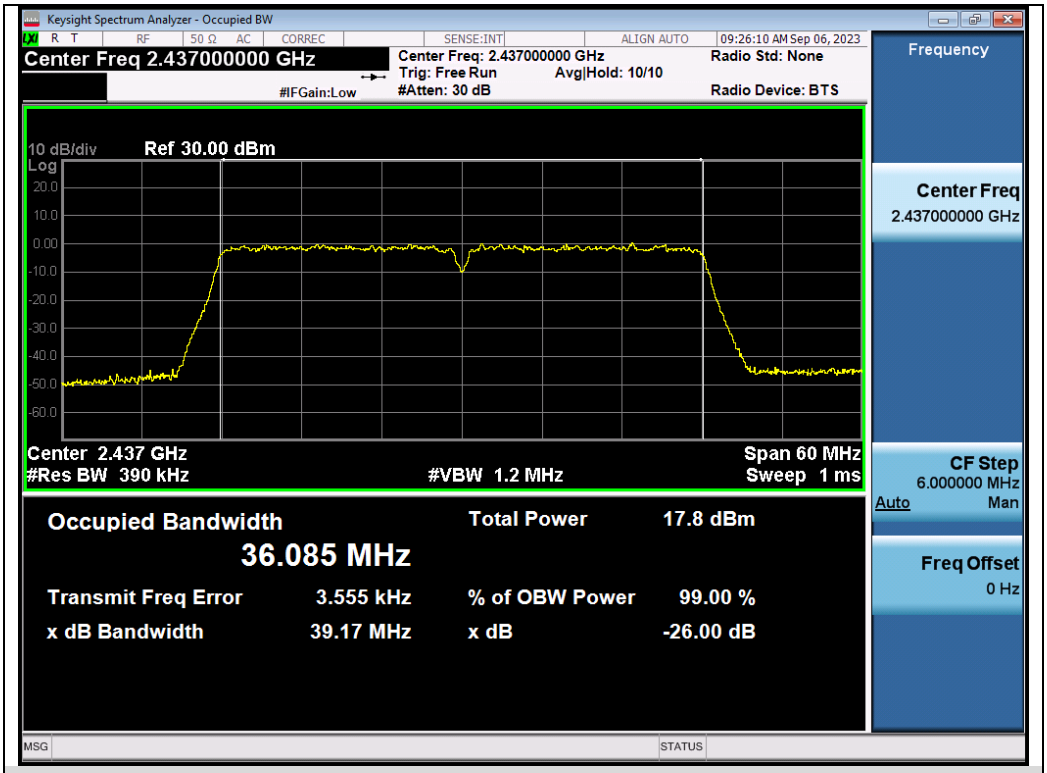

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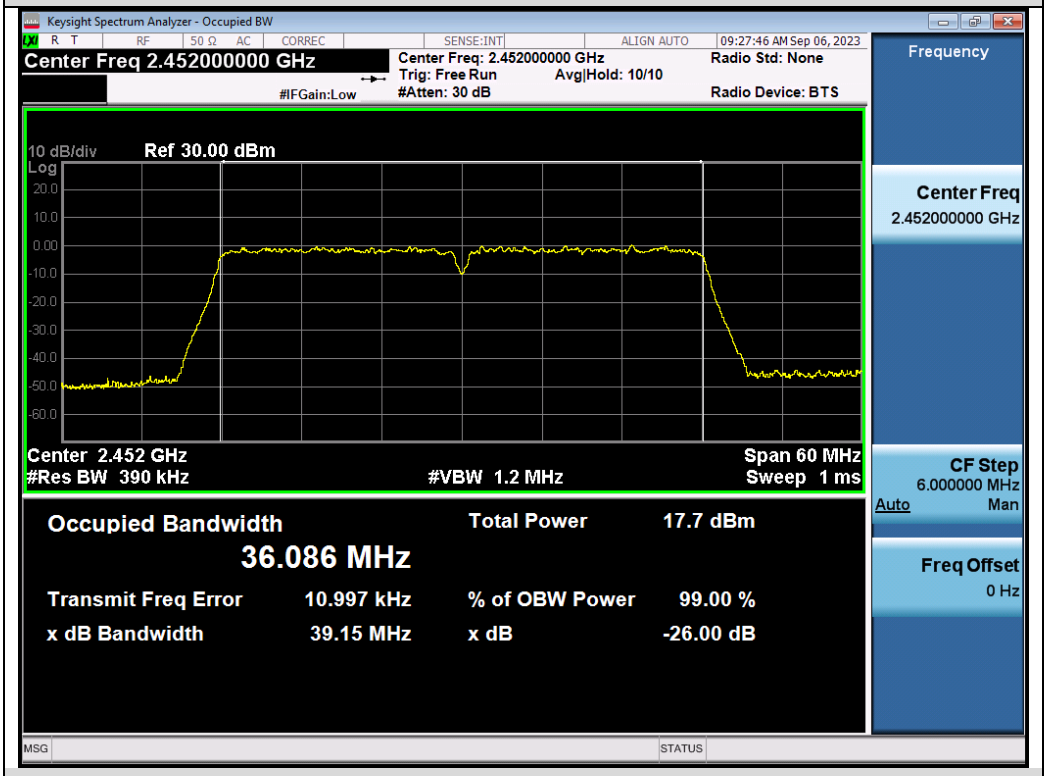

Test_Graph_802.11n40_ANT1_2452_MCS0_OBW

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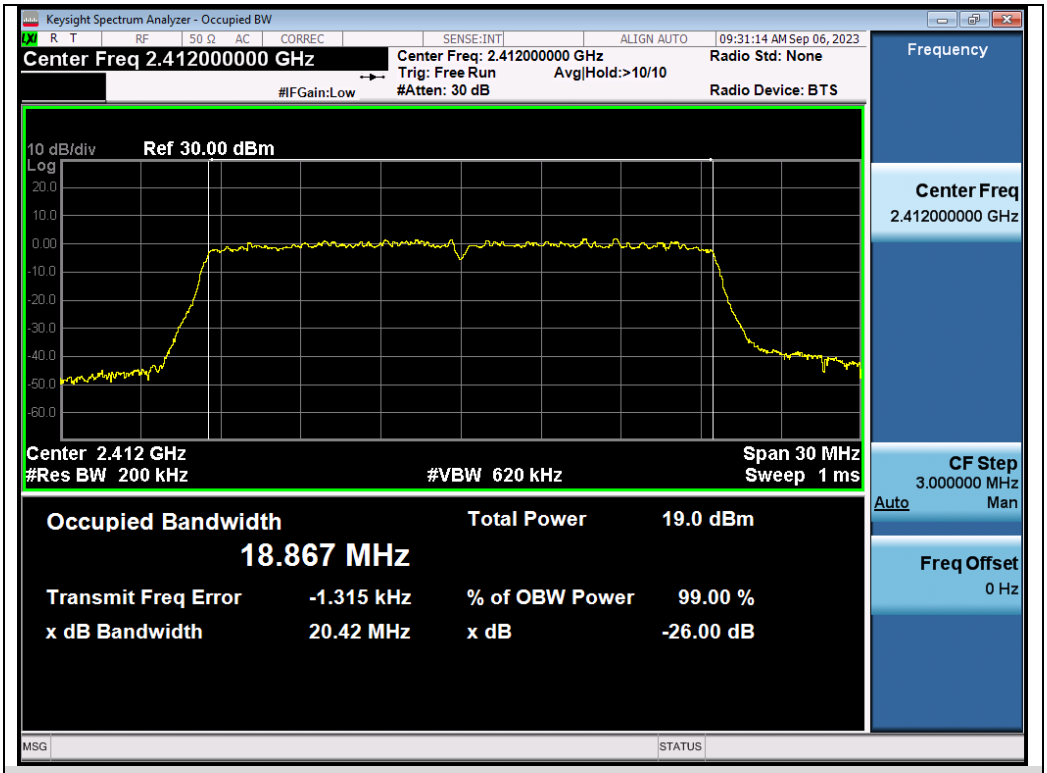
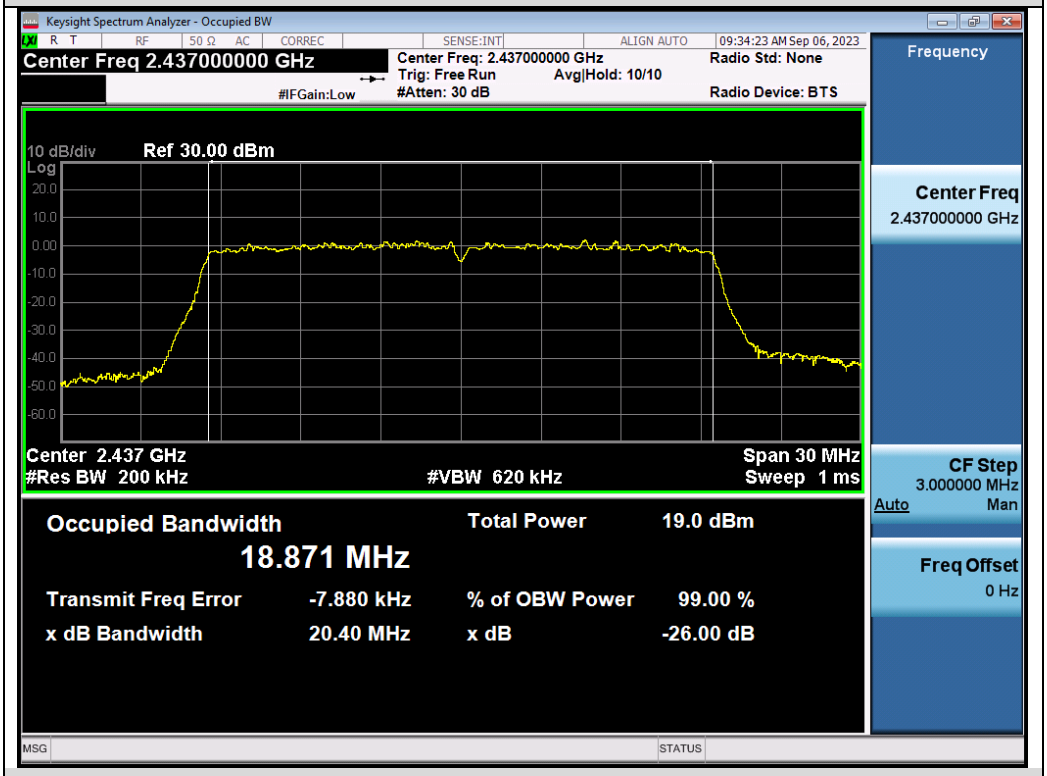


Test_Graph_802.11ax20_ANT1_2412_MCS0_OBW



Test_Graph_802.11ax20_ANT1_2437_MCS0_OBW

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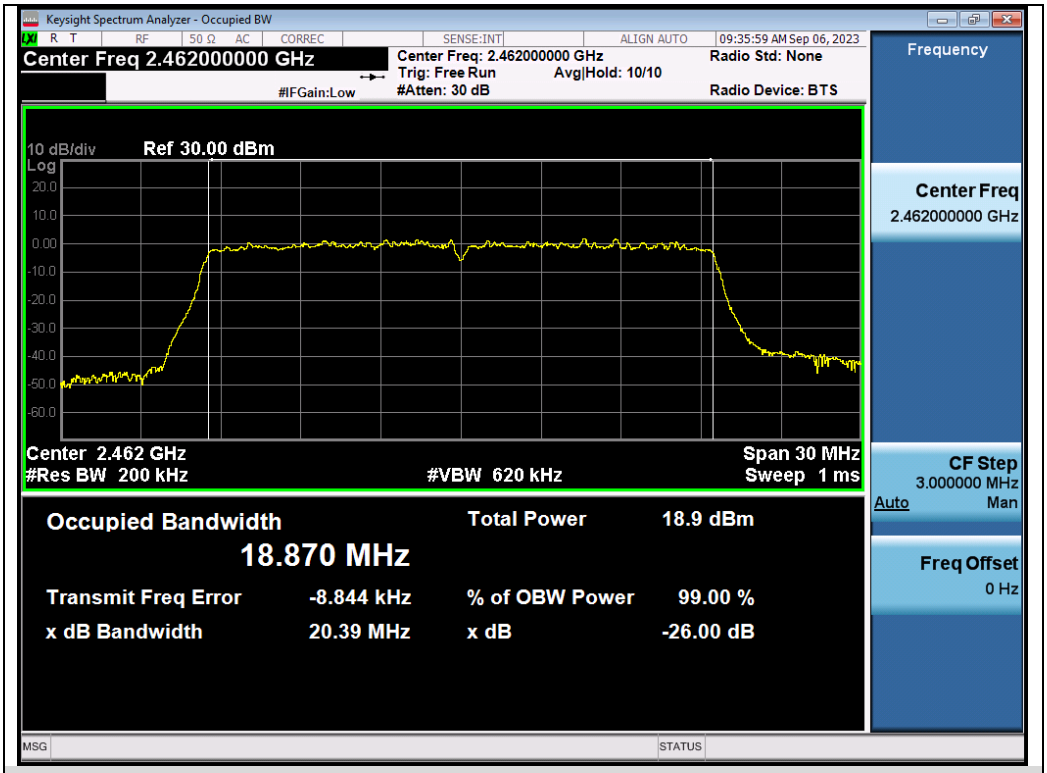

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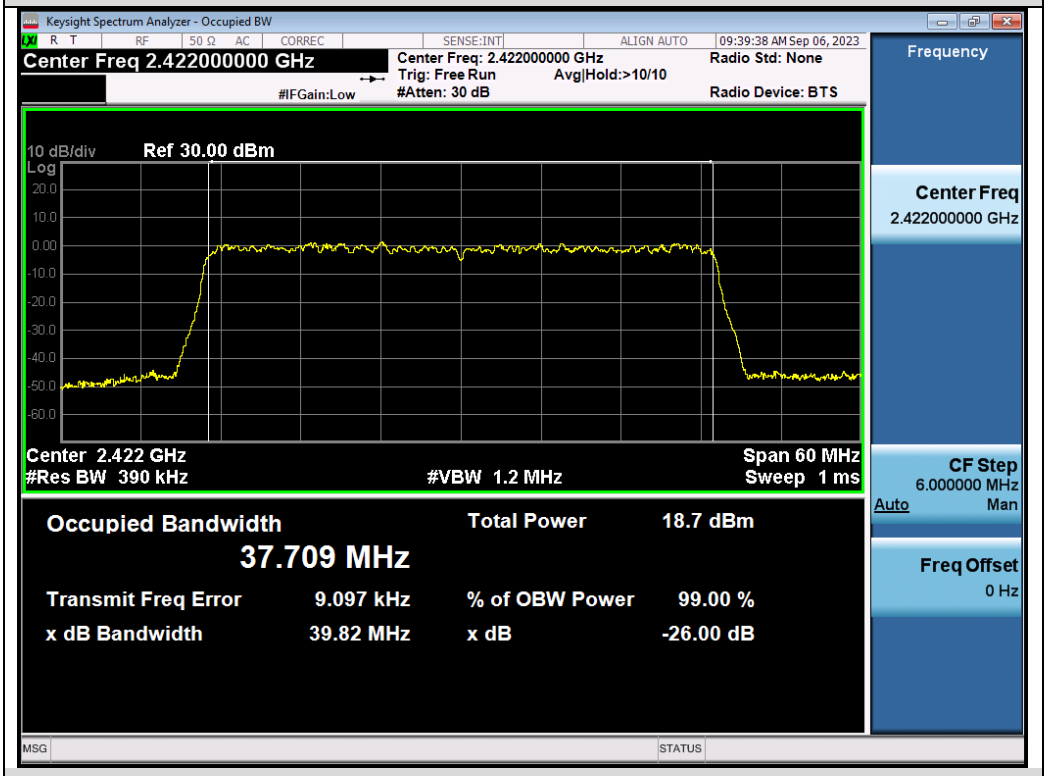

Test_Graph_802.11ax40_ANT1_2422_MCS0_OBW

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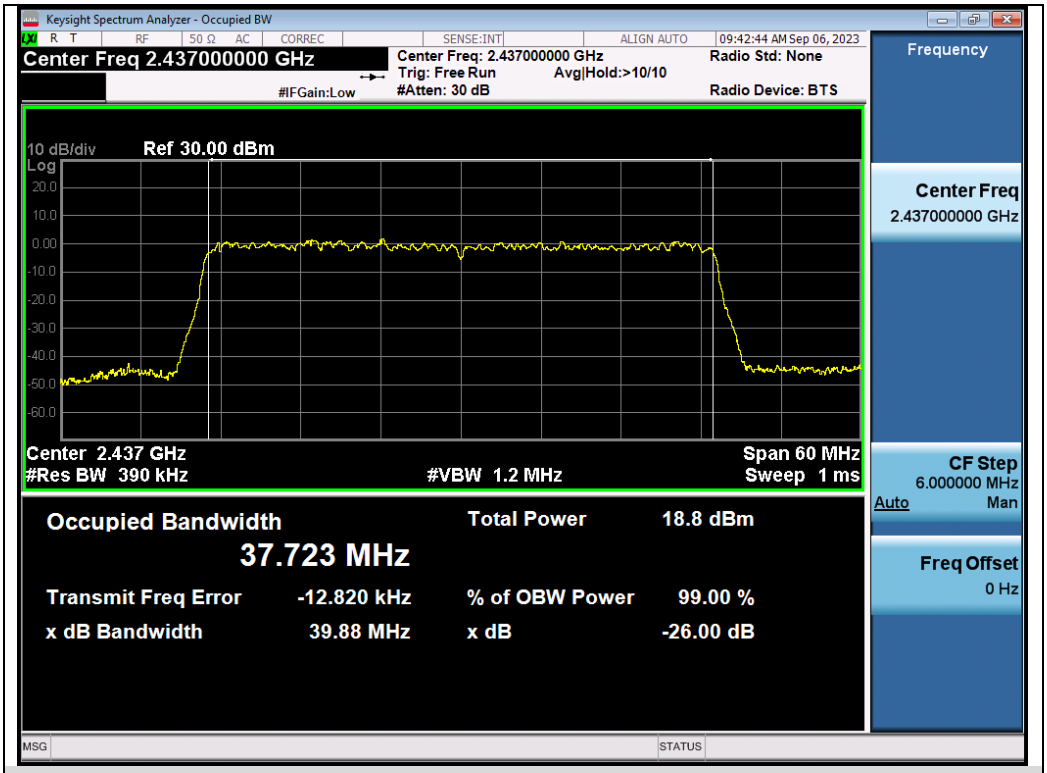
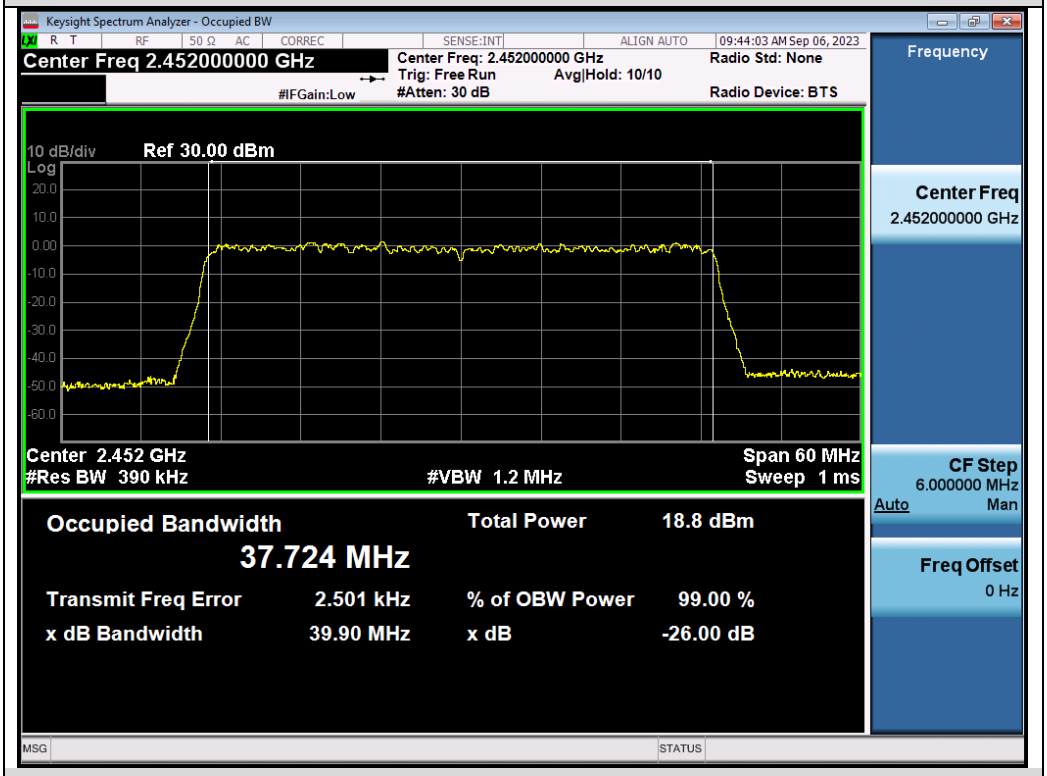


Test_Graph_802.11ax40_ANT1_2437_MCS0_OBW



Test_Graph_802.11ax40_ANT1_2452_MCS0_OBW

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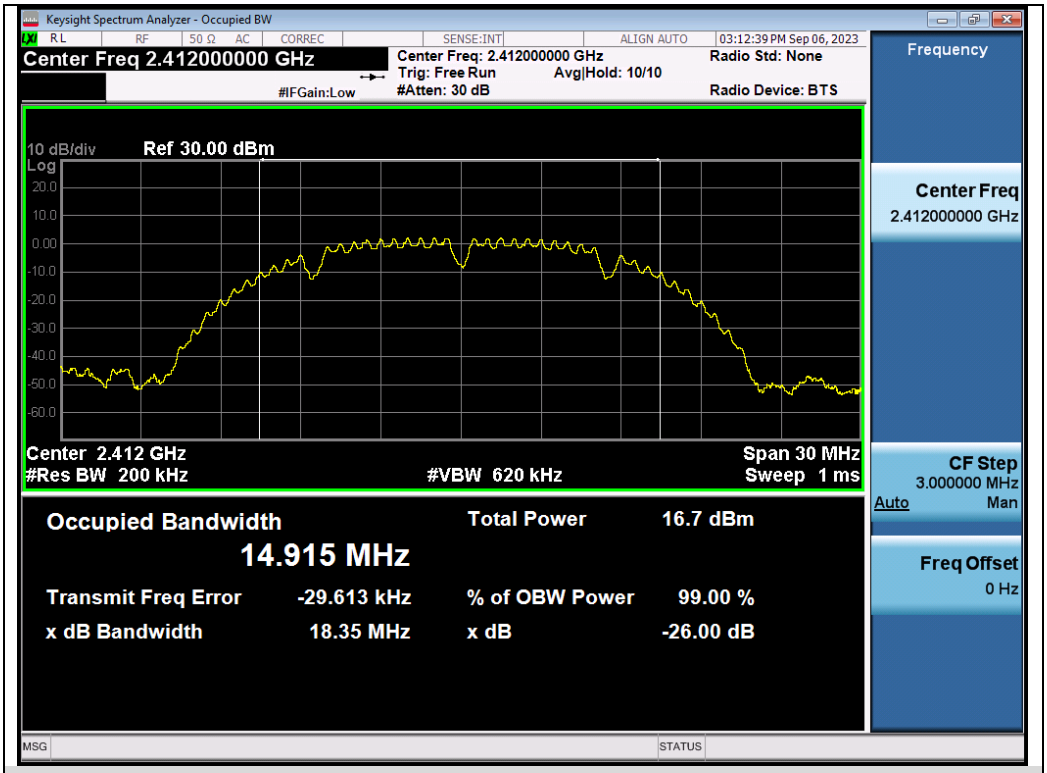
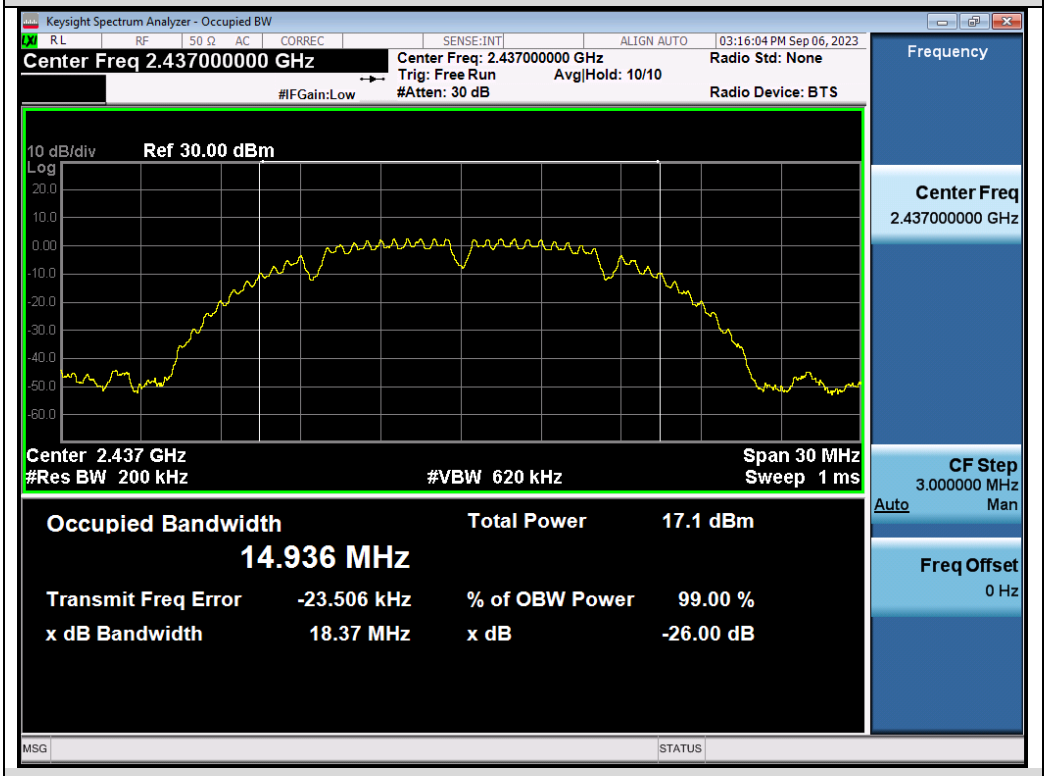


Test_Graph_802.11b_ANT2_2412_1Mbps_OBW



Test_Graph_802.11b_ANT2_2437_1Mbps_OBW

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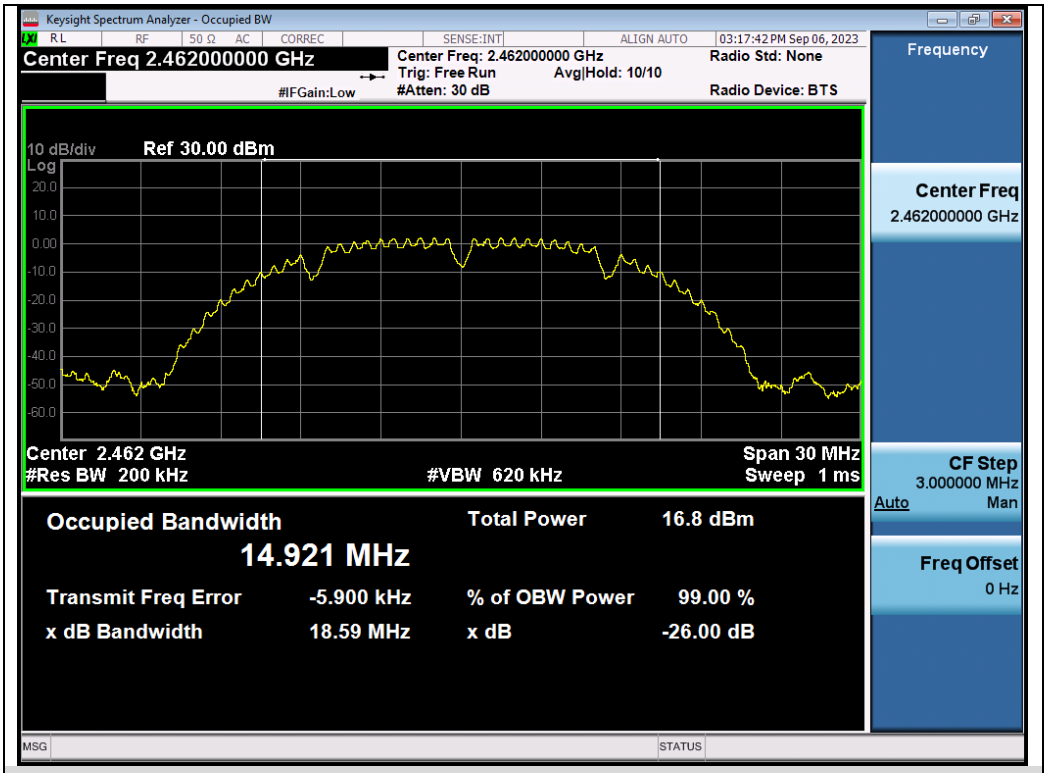
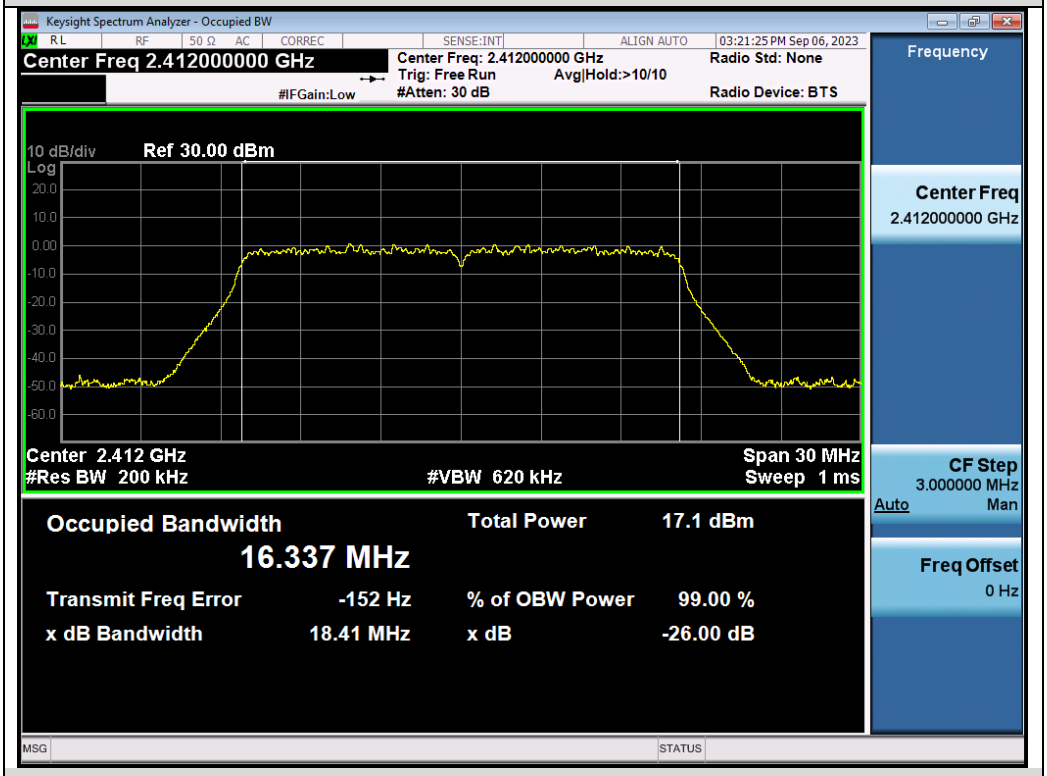


Test_Graph_802.11b_ANT2_2462_1Mbps_OBW



Test_Graph_802.11g_ANT2_2412_6Mbps_OBW

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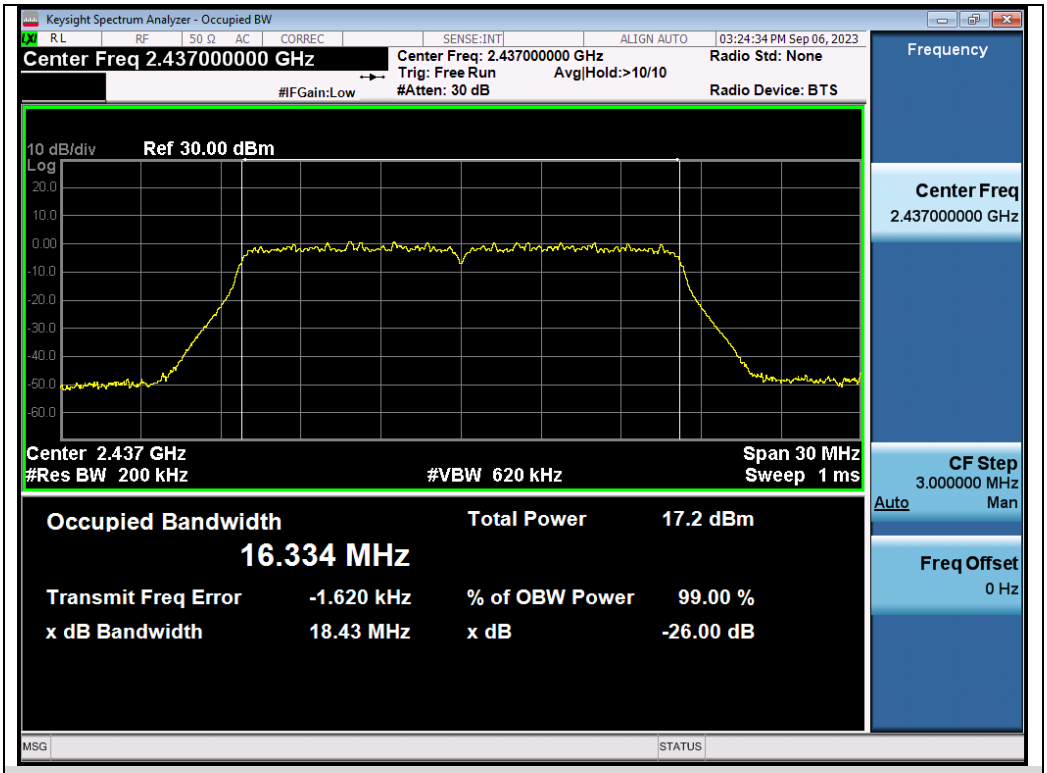
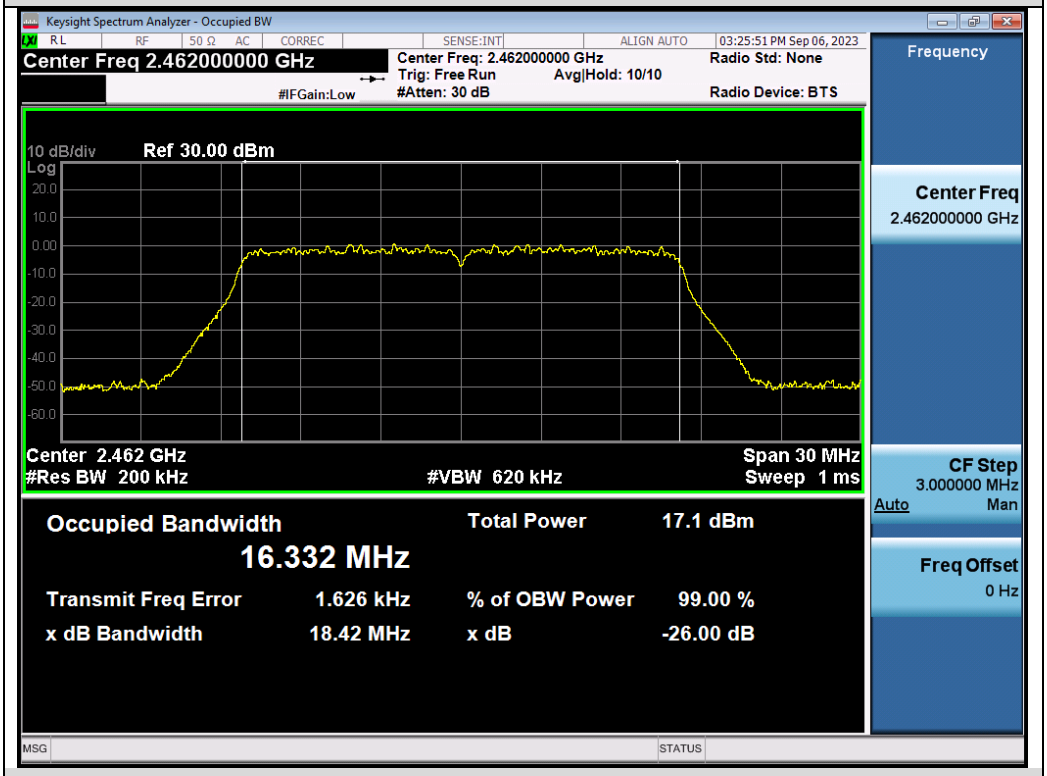


Test_Graph_802.11g_ANT2_2437_6Mbps_OBW



Test_Graph_802.11g_ANT2_2462_6Mbps_OBW

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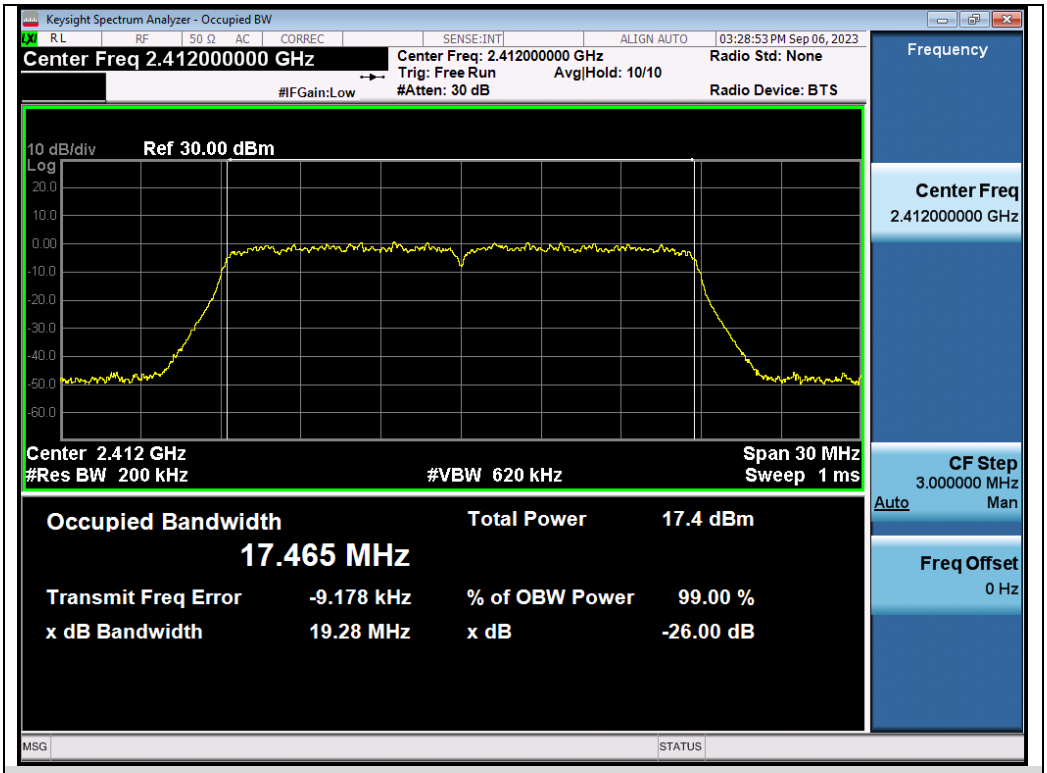
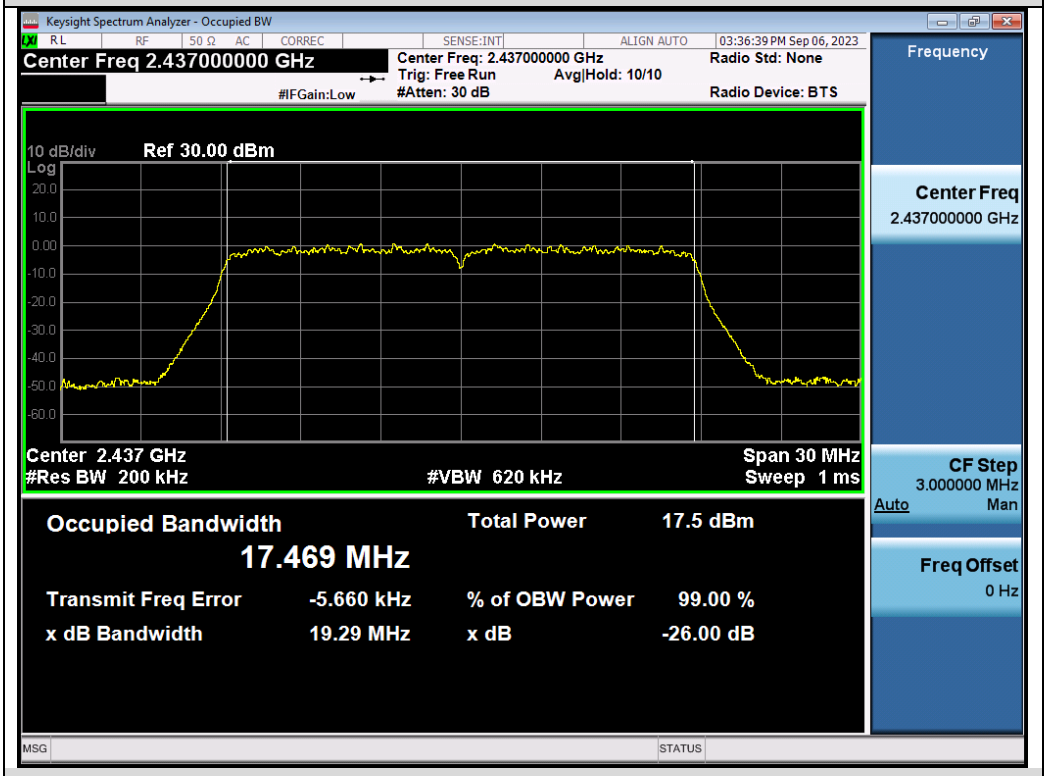


Test_Graph_802.11n20_ANT2_2412_MCS0_OBW



Test_Graph_802.11n20_ANT2_2437_MCS0_OBW

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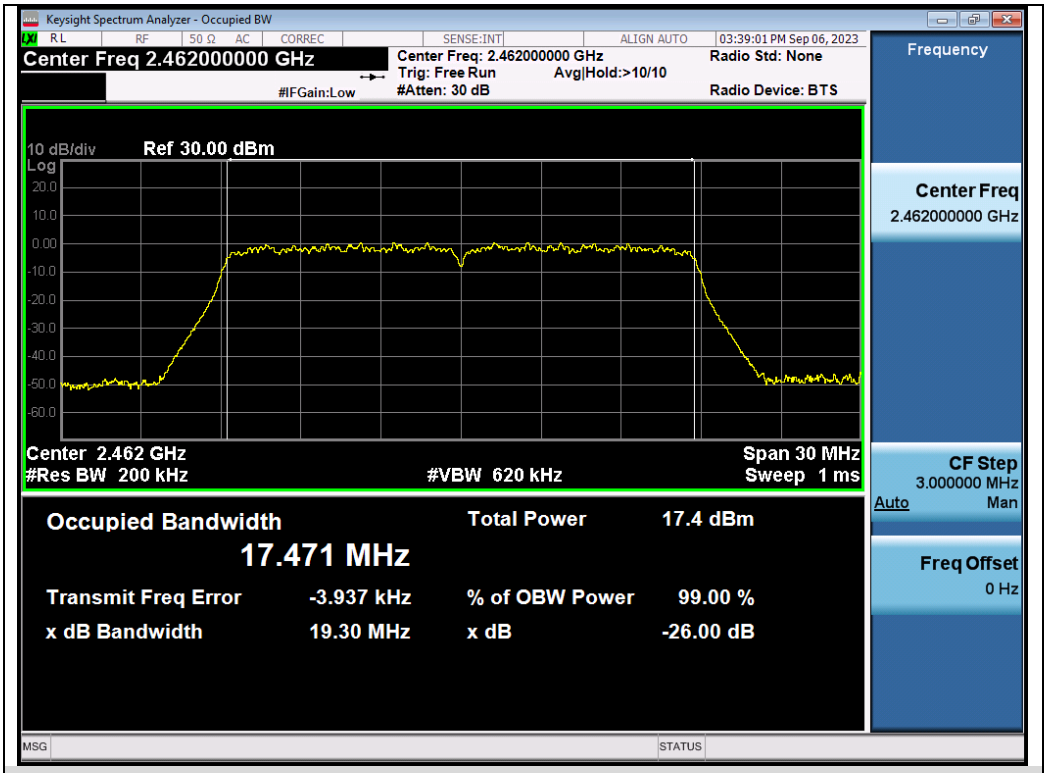

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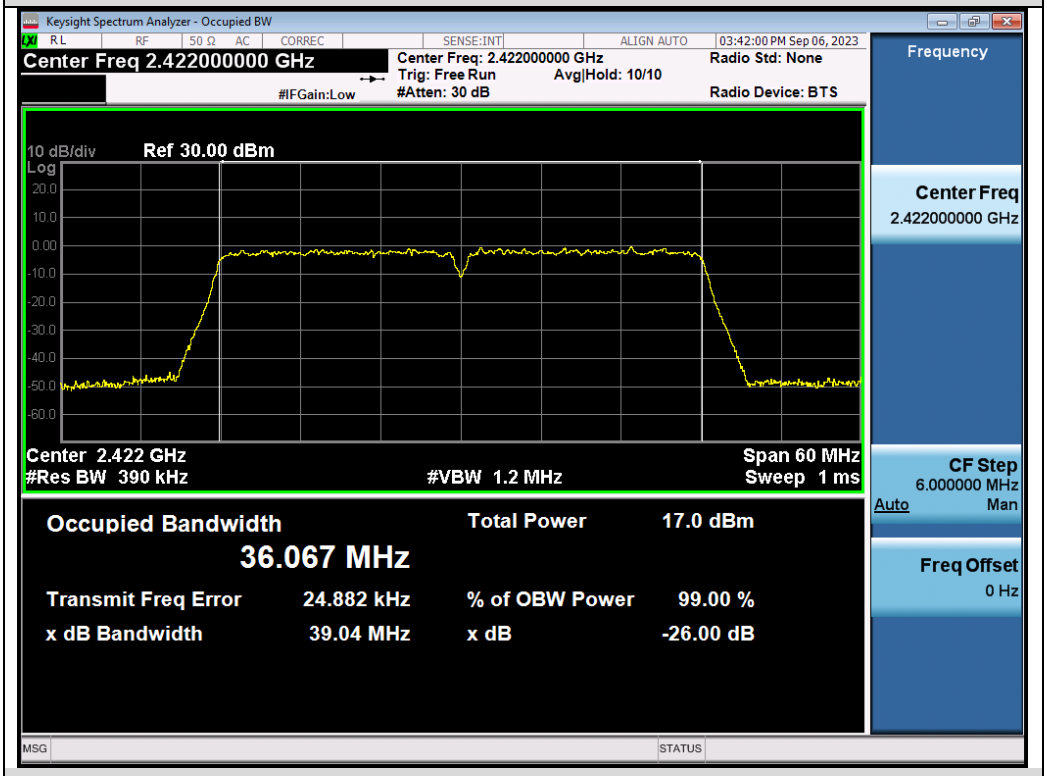

Test_Graph_802.11n40_ANT2_2422_MCS0_OBW

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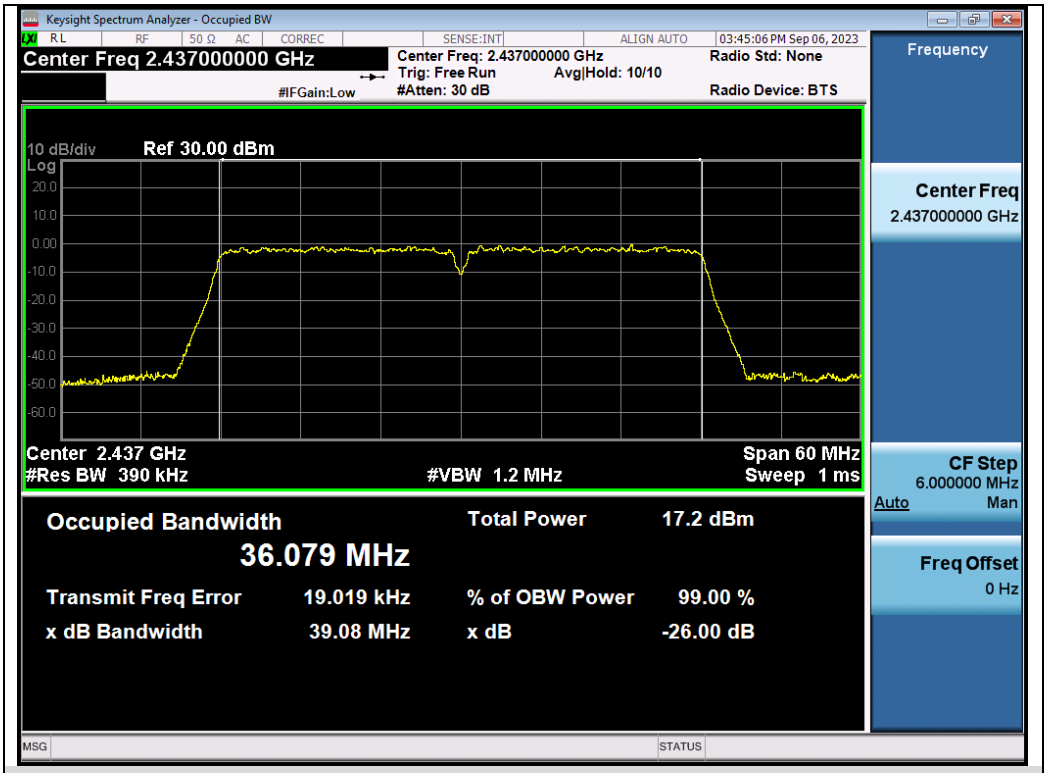

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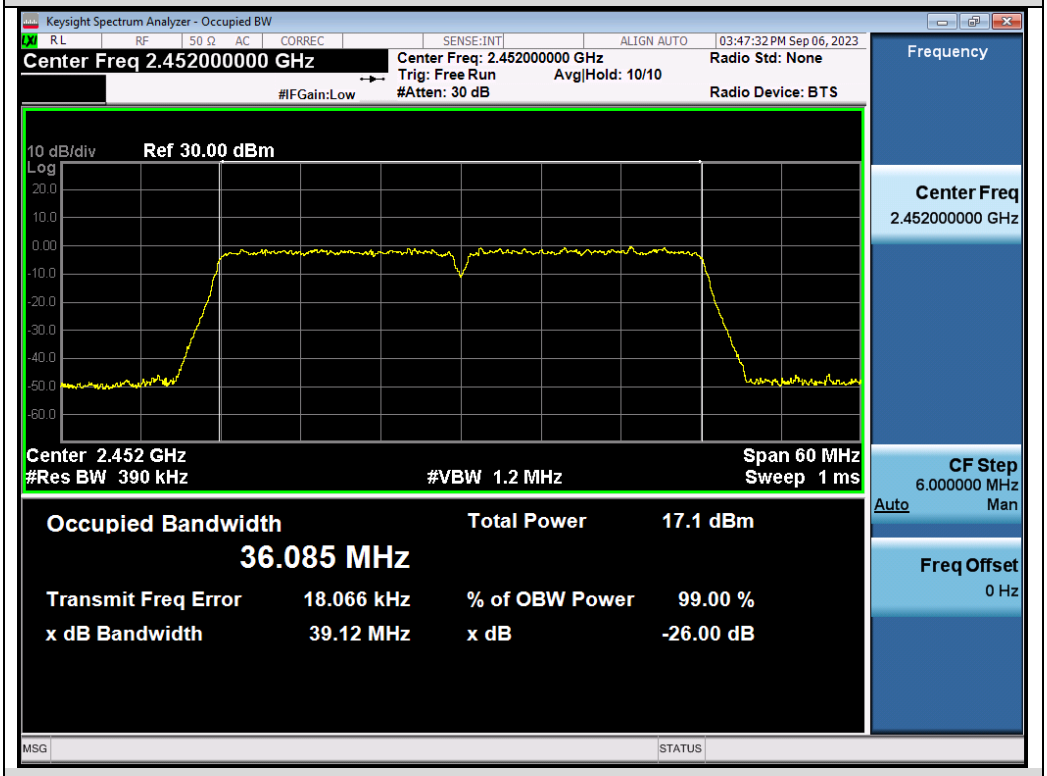

Test_Graph_802.11n40_ANT2_2452_MCS0_OBW

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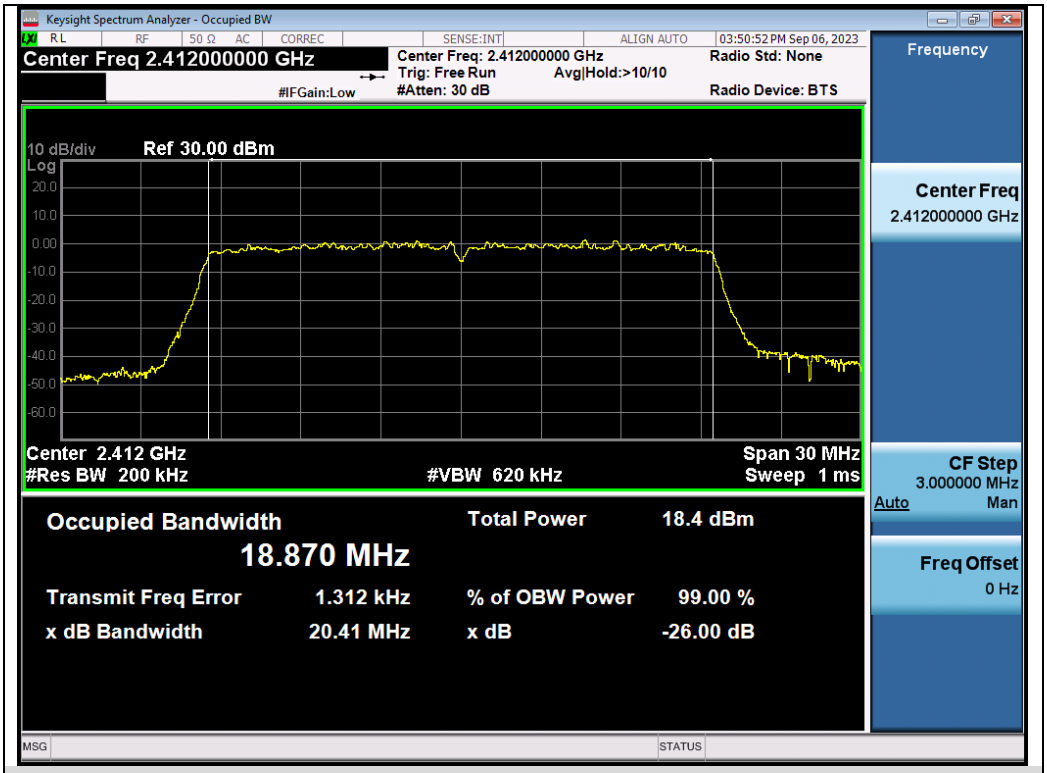
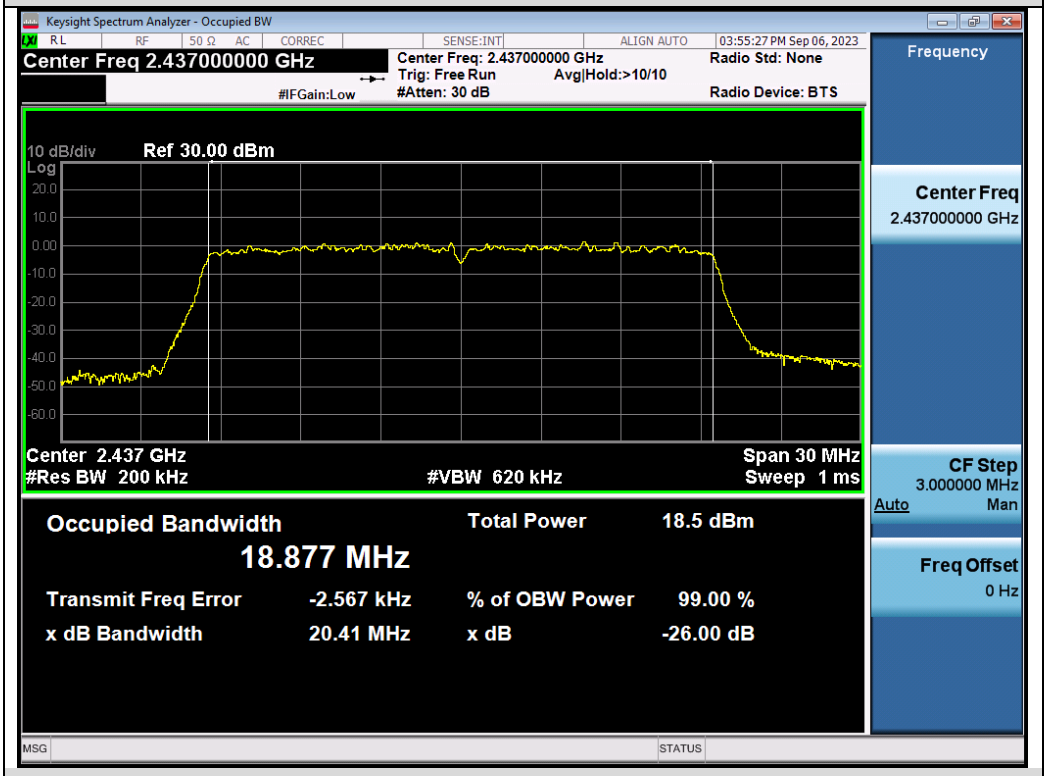


Test_Graph_802.11ax20_ANT2_2412_MCS0_OBW



Test_Graph_802.11ax20_ANT2_2437_MCS0_OBW

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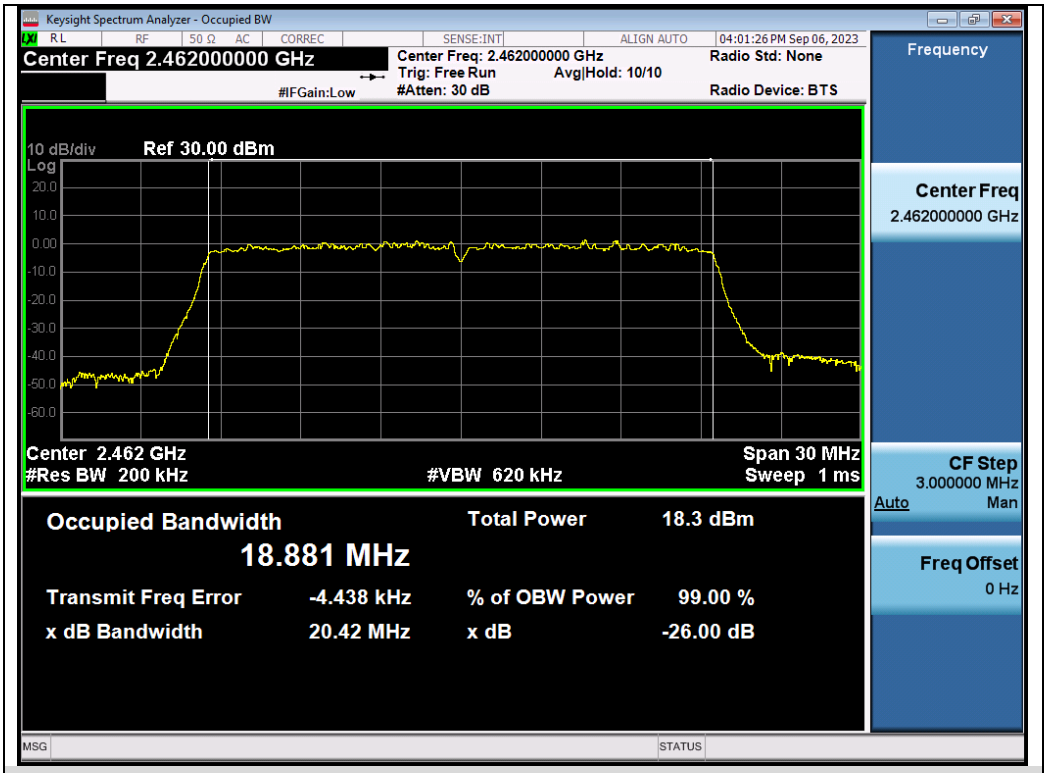
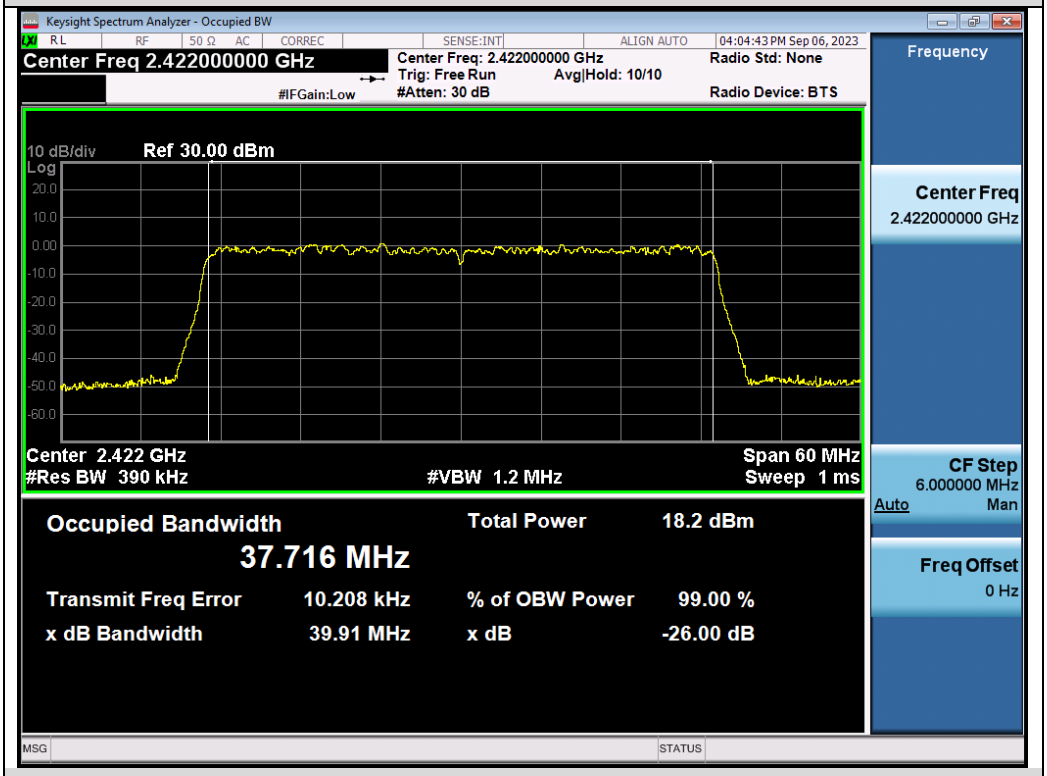


Test_Graph_802.11ax20_ANT2_2462_MCS0_OBW



Test_Graph_802.11ax40_ANT2_2422_MCS0_OBW

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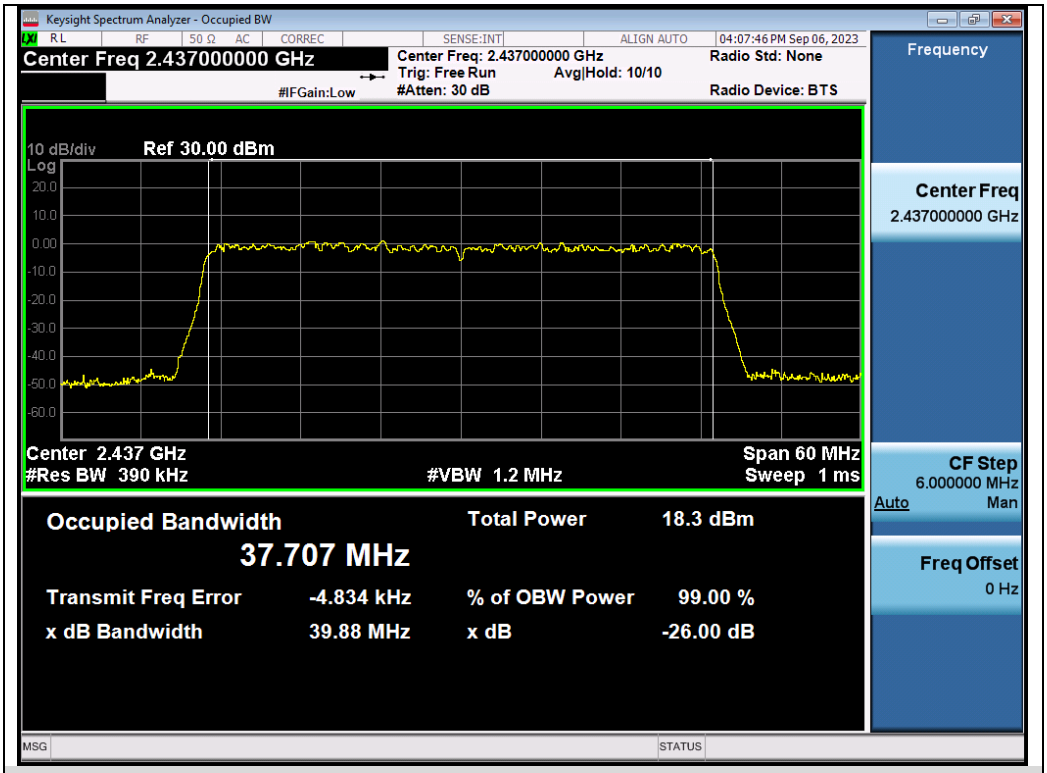

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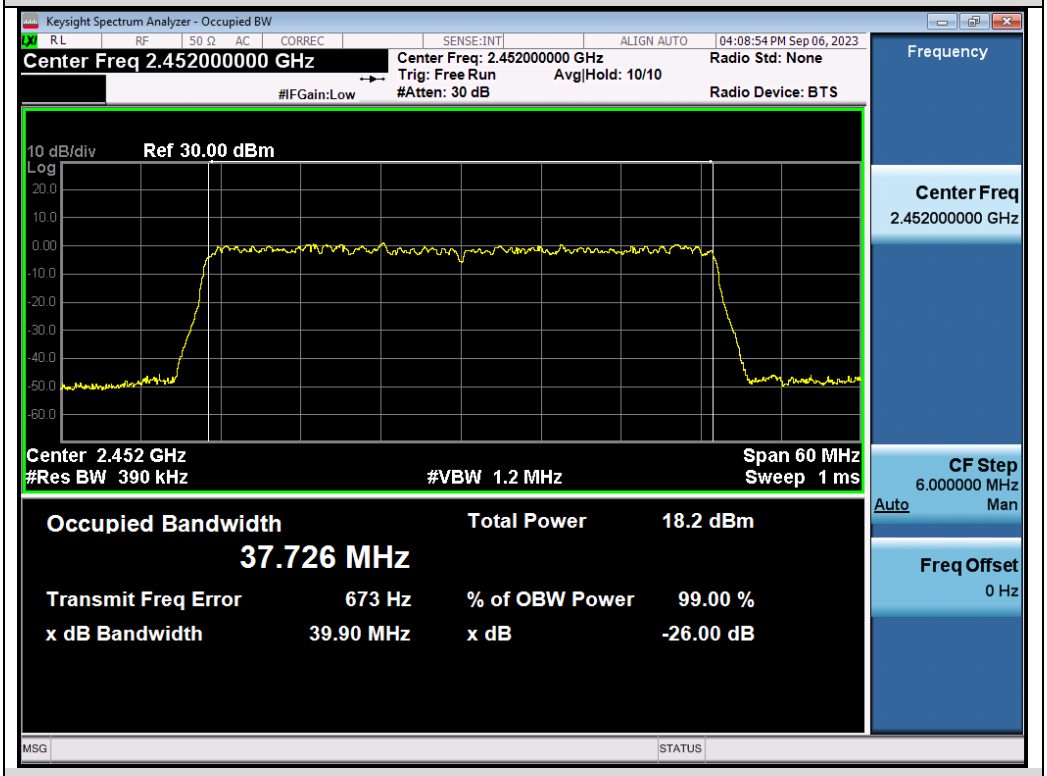

Test_Graph_802.11ax40_ANT2_2452_MCS0_OBW

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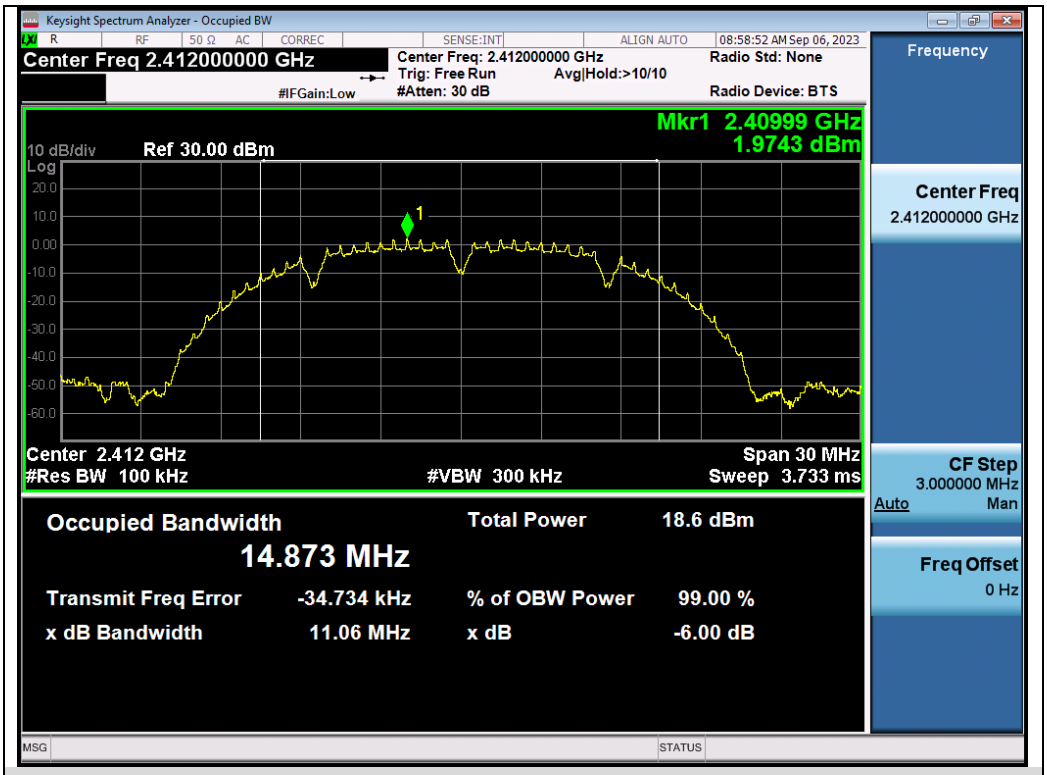
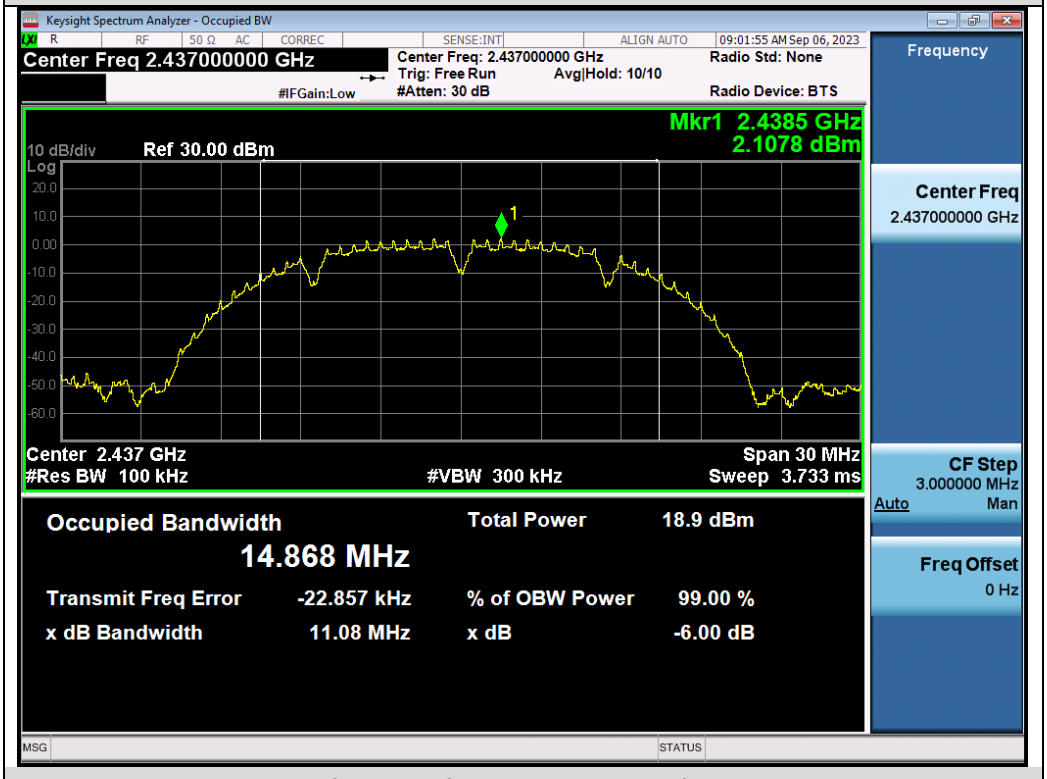
Test Graphs of DTS Bandwidth



Test_Graph_802.11b_ANT1_2412_1Mbps_DTSBW



Test_Graph_802.11b_ANT1_2437_1Mbps_DTSBW

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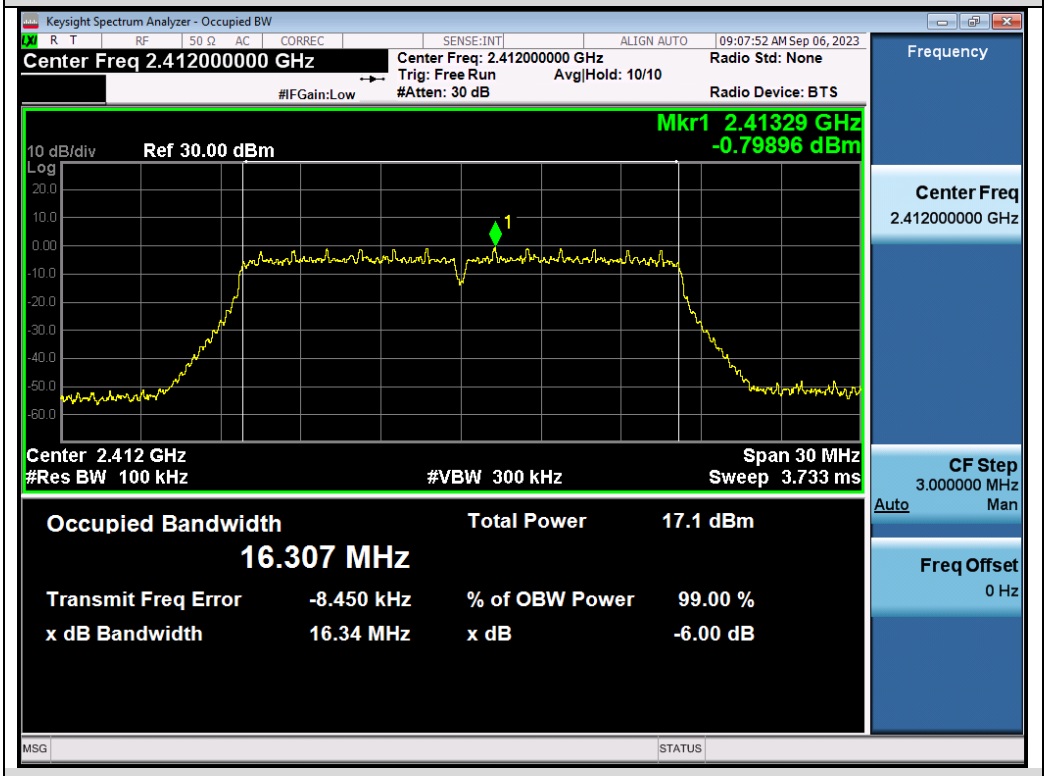
Test_Graph_802.11b_ANT1_2462_1Mbps_DTSBW



Test_Graph_802.11g_ANT1_2412_6Mbps_DTSBW

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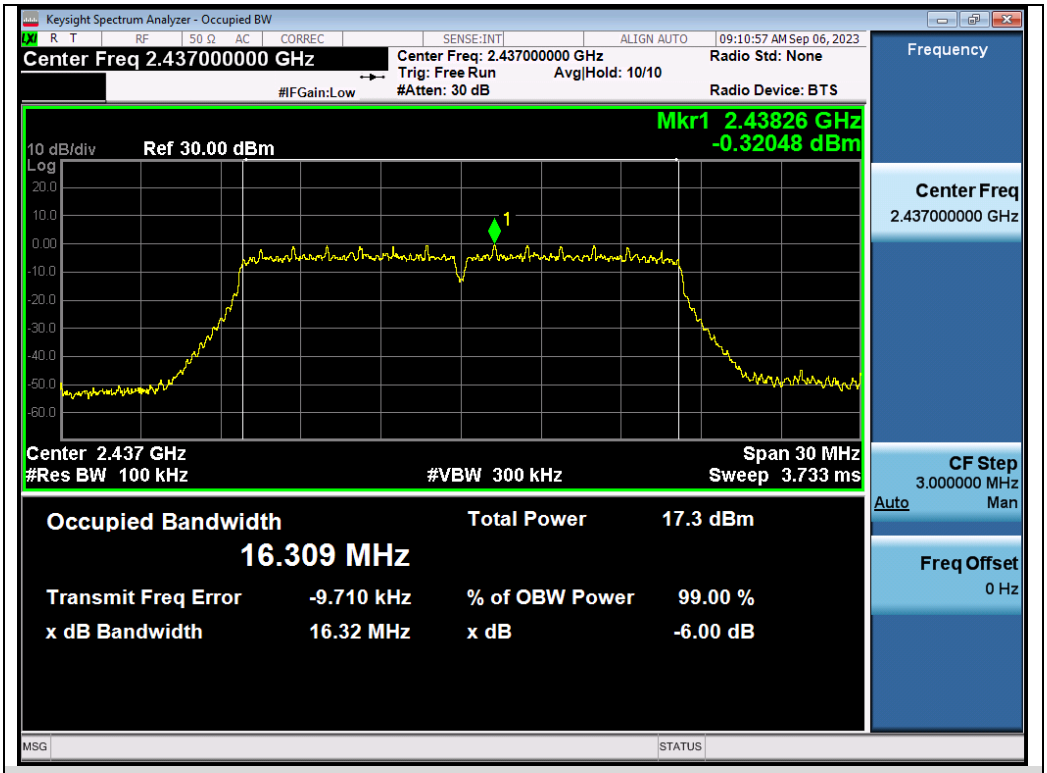

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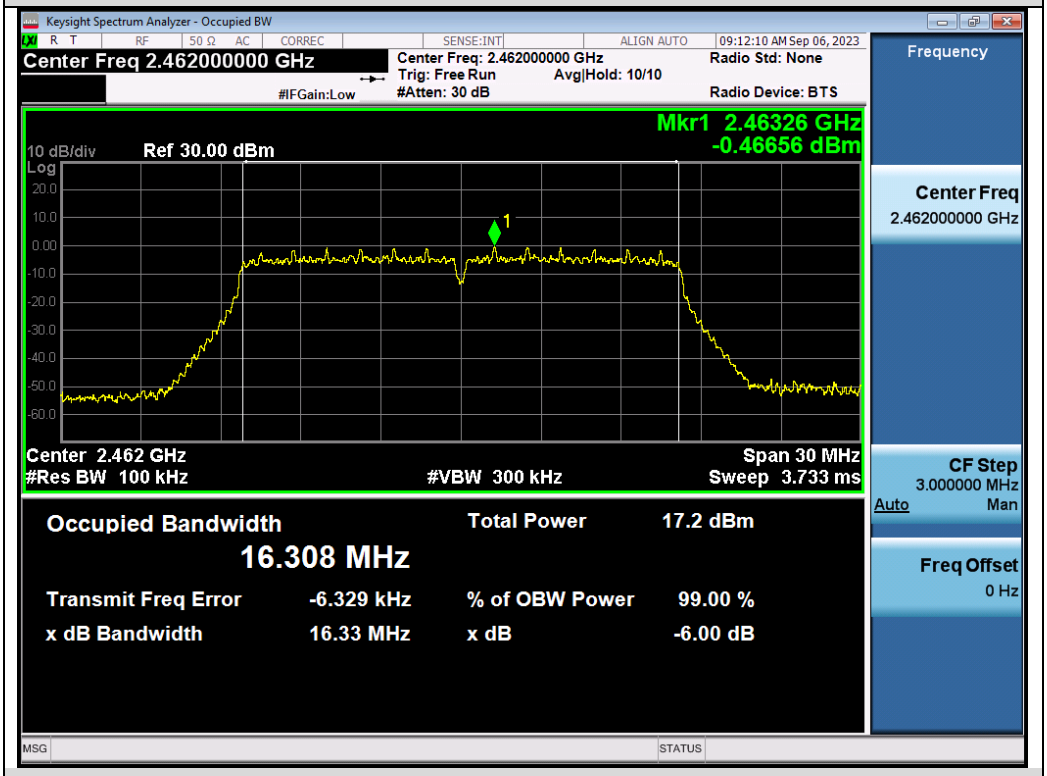

Test_Graph_802.11g_ANT1_2462_6Mbps_DTSBW

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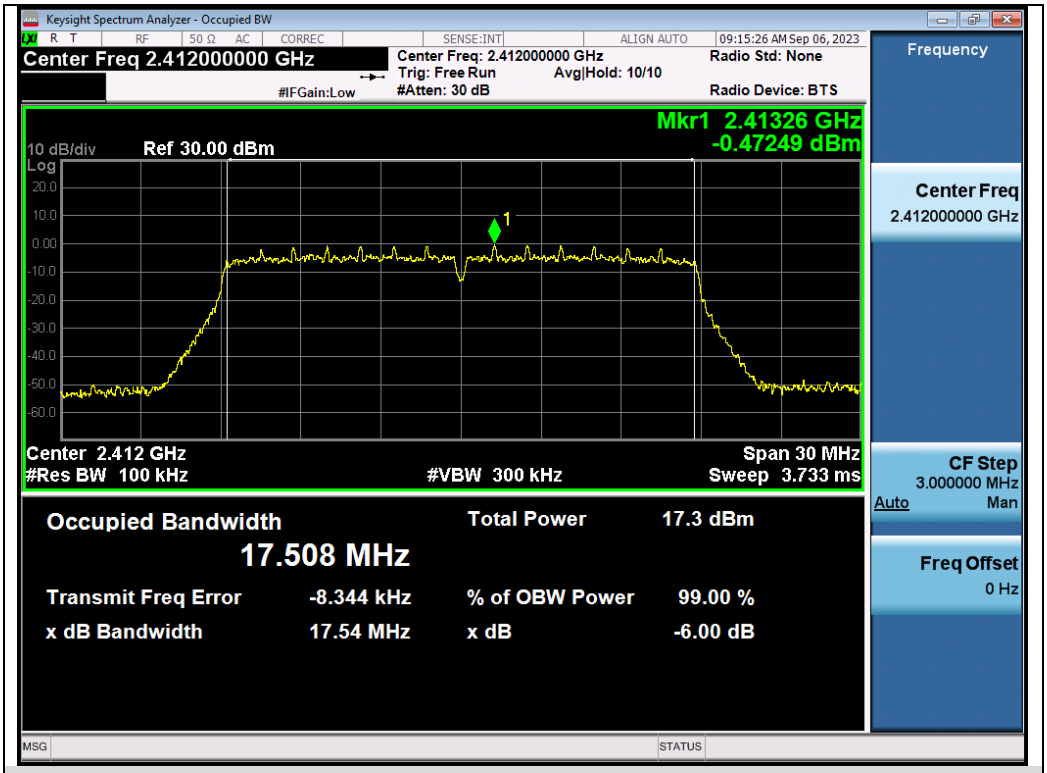

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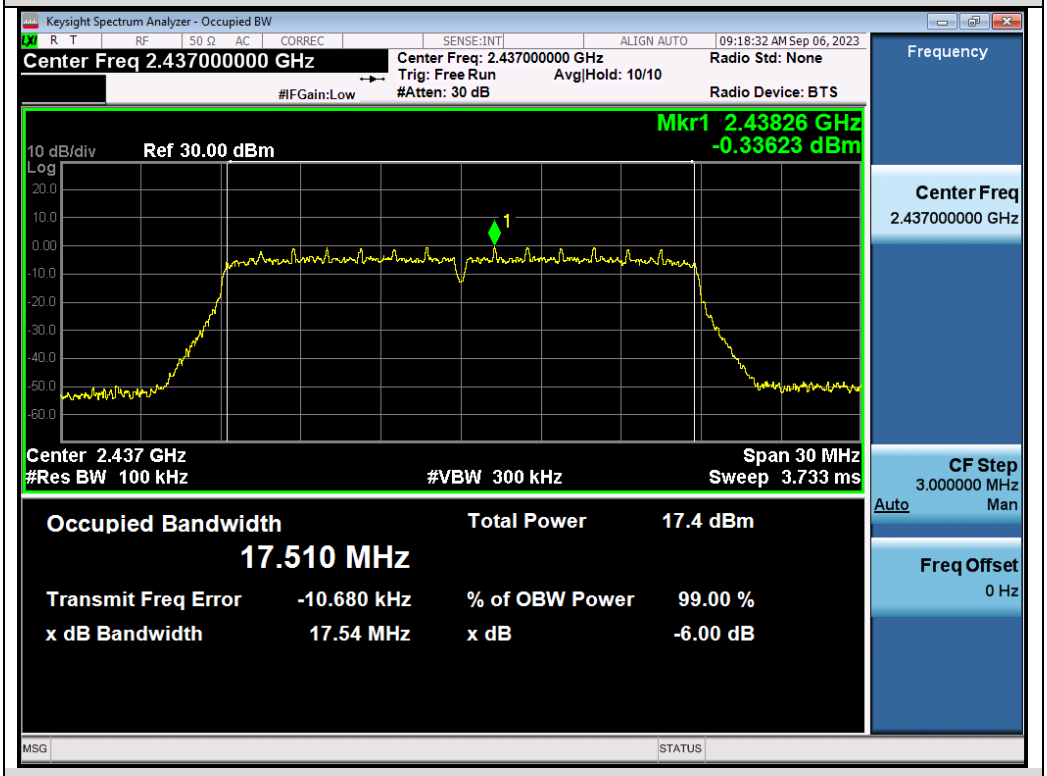

Test_Graph_802.11n20_ANT1_2437_MCS0_DTSBW

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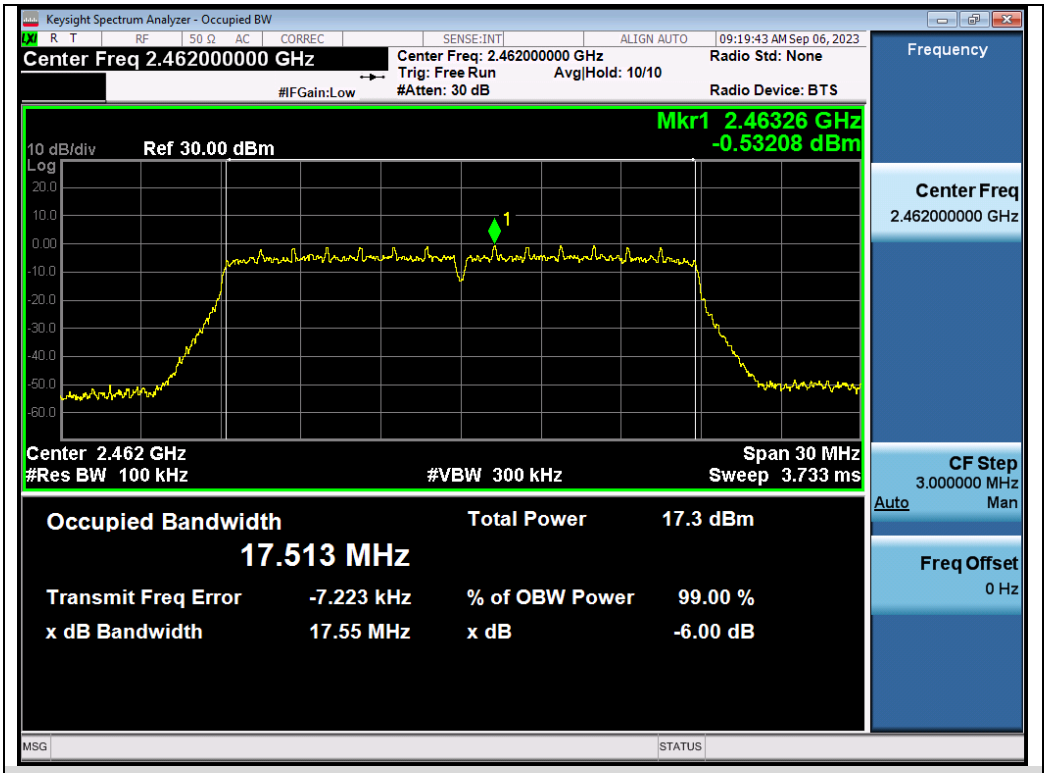

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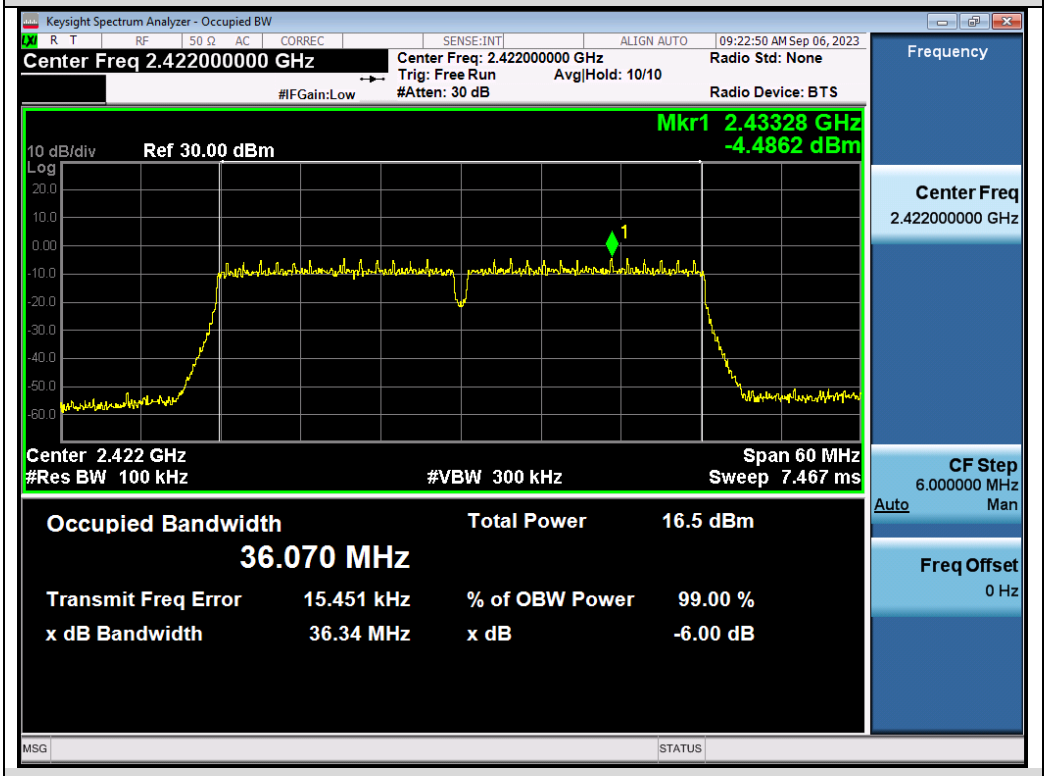

Test_Graph_802.11n40_ANT1_2422_MCS0_DTSBW

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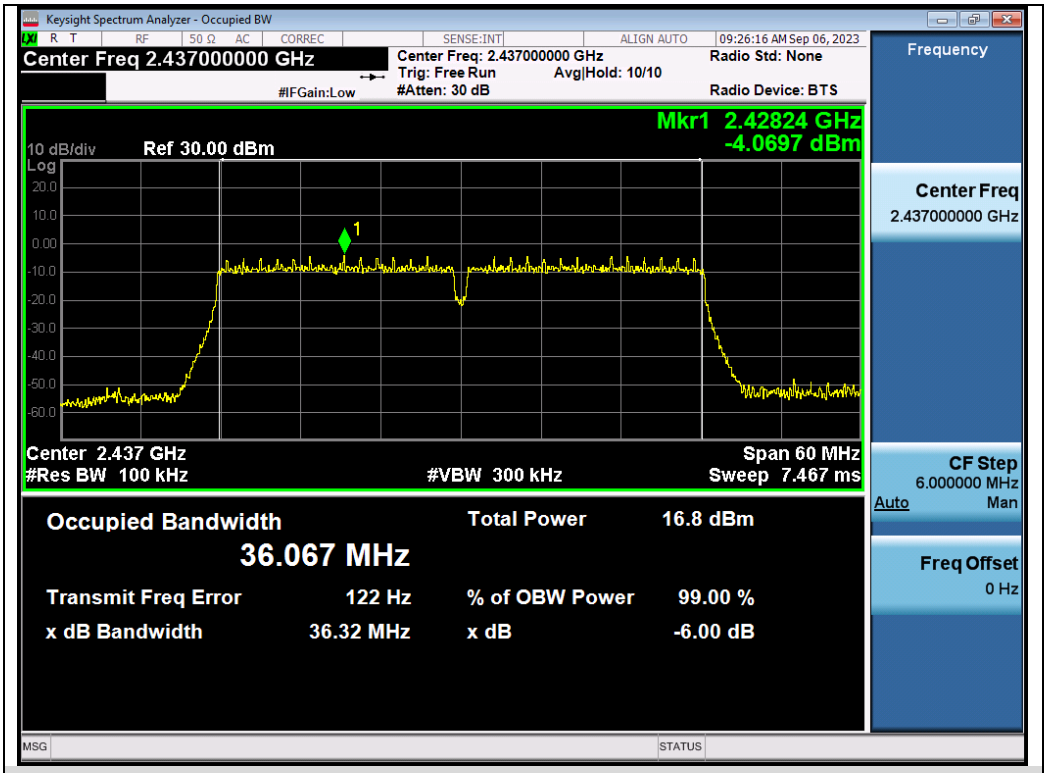

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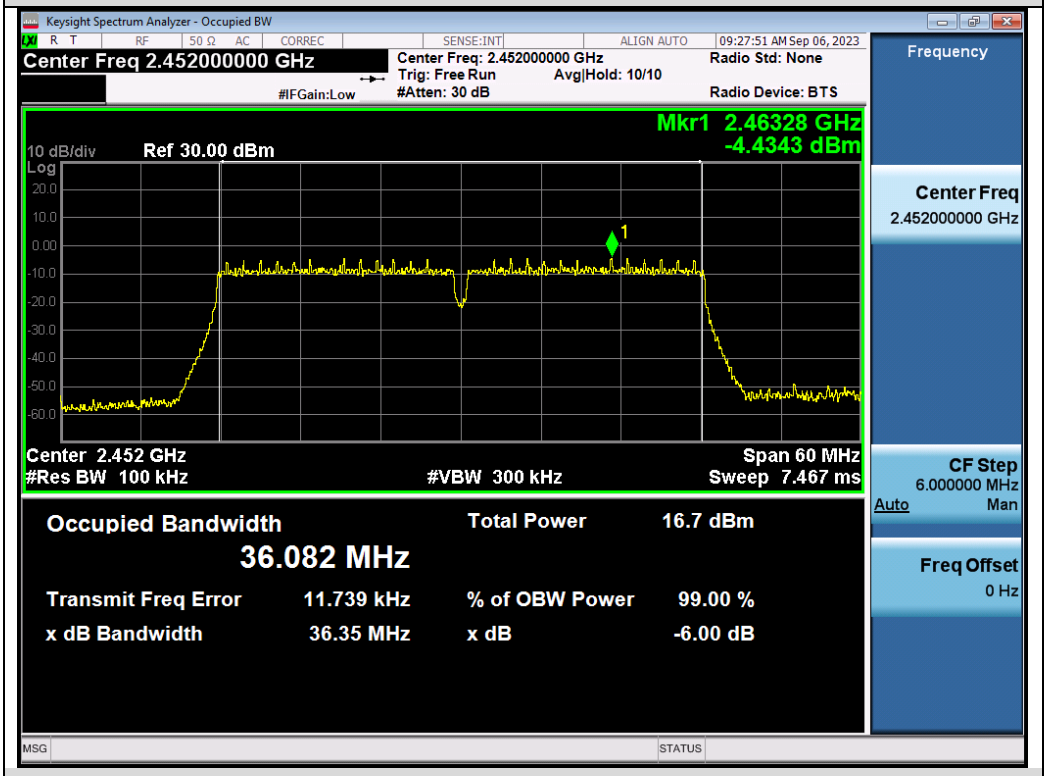

Test_Graph_802.11n40_ANT1_2452_MCS0_DTSBW

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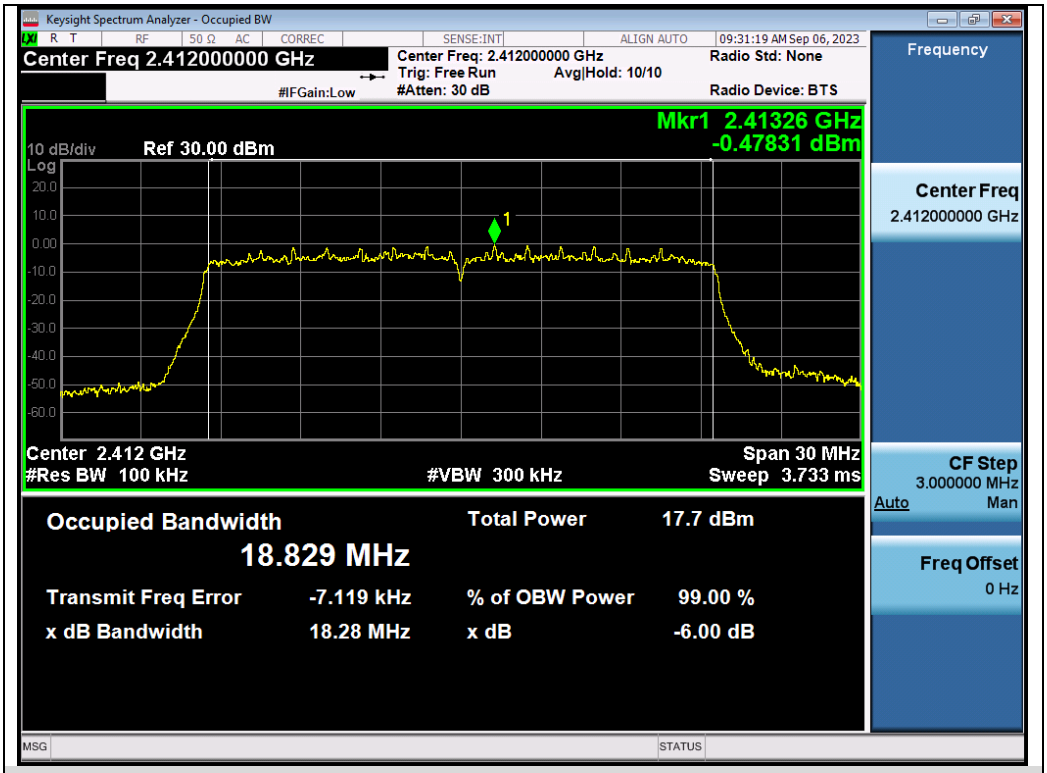

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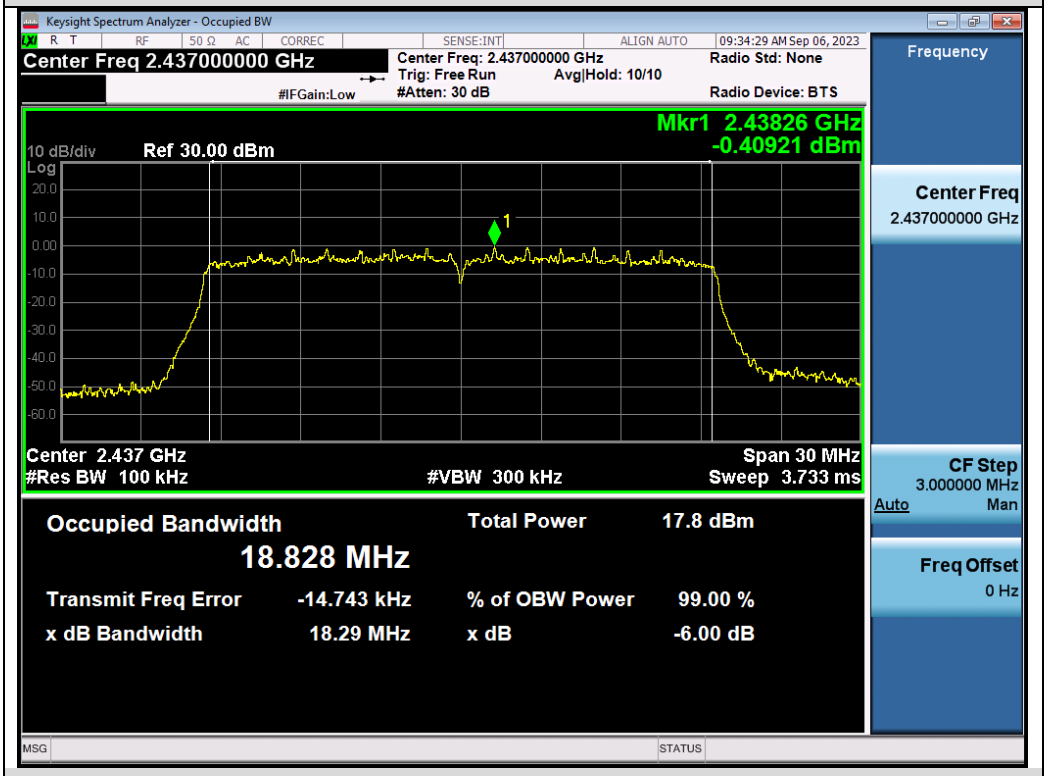

Test_Graph_802.11ax20_ANT1_2437_MCS0_DTSBW

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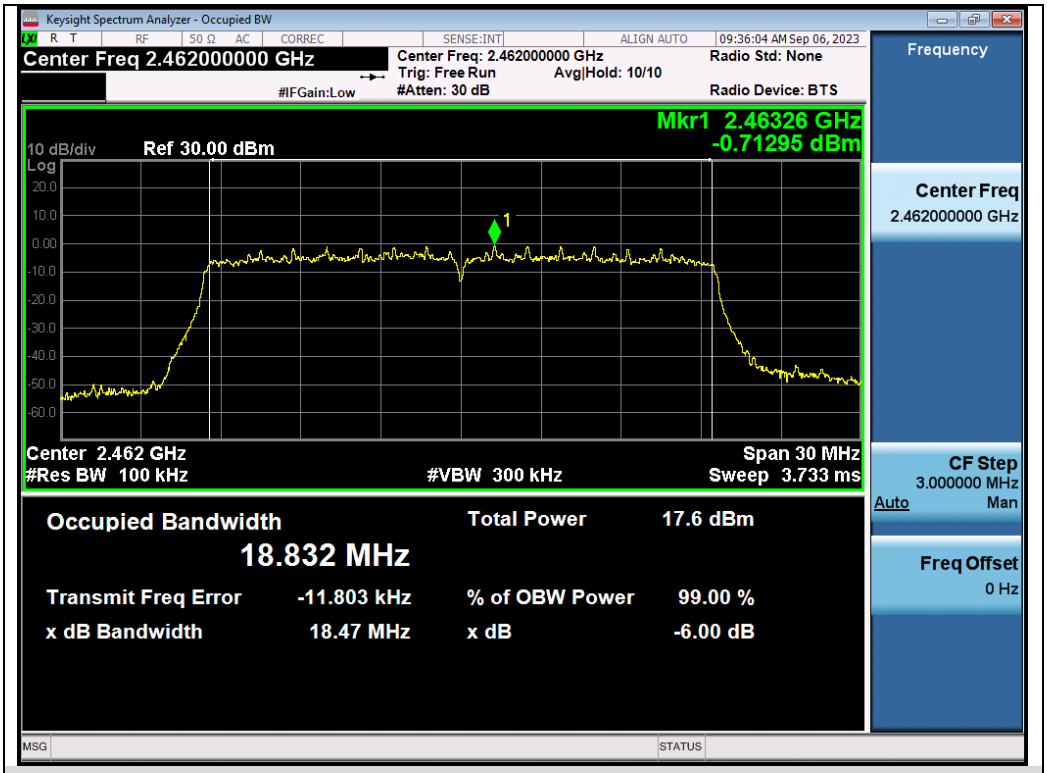

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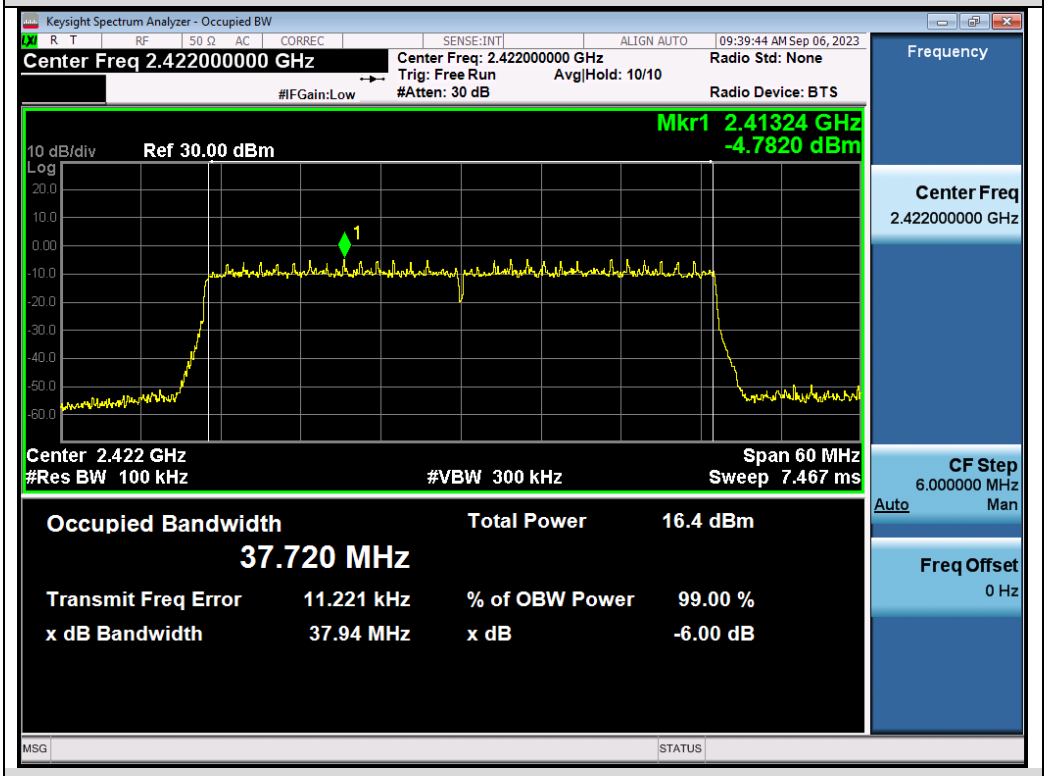

Test_Graph_802.11ax40_ANT1_2422_MCS0_DTSBW

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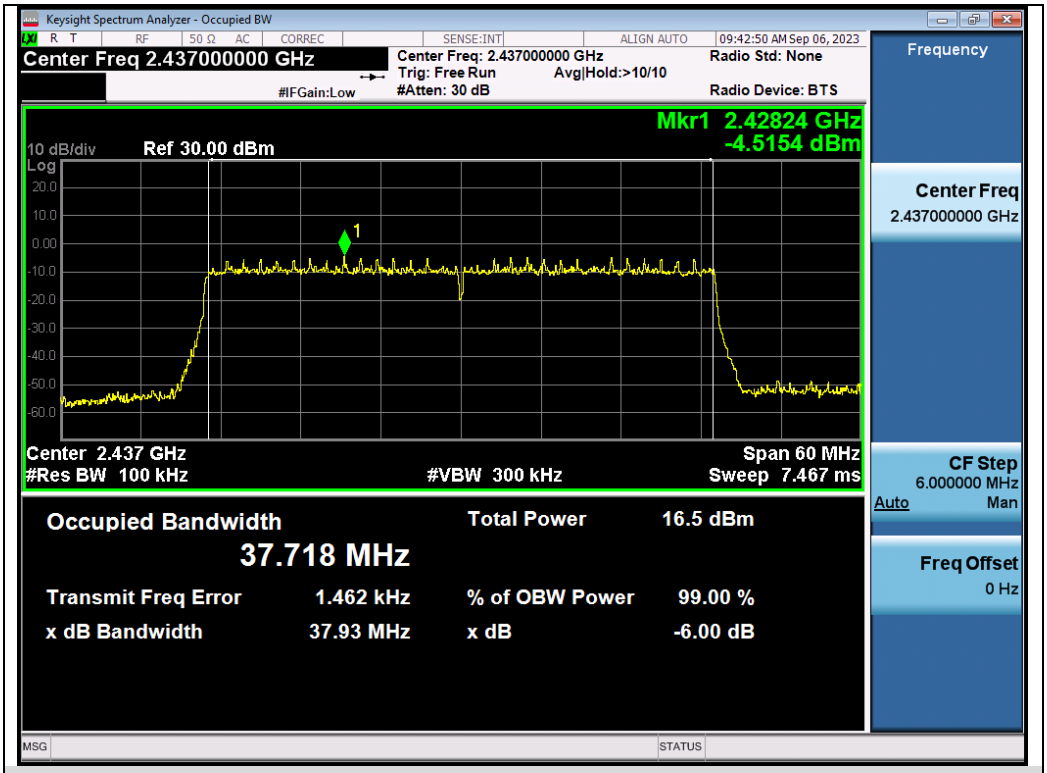

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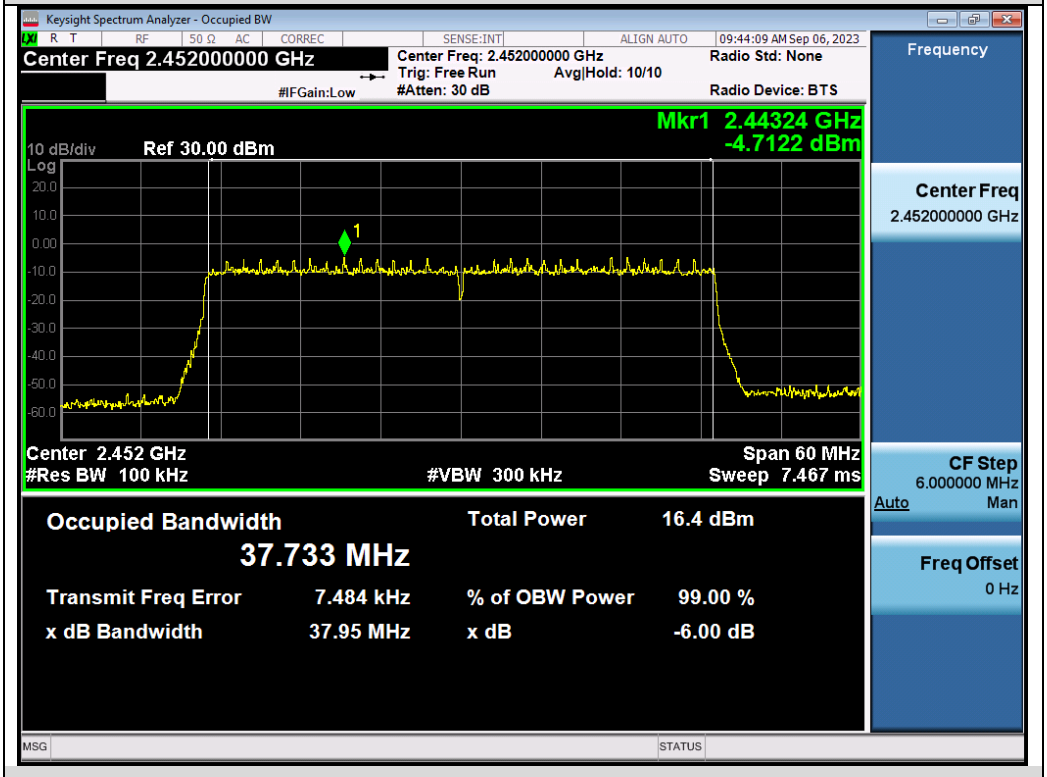

Test_Graph_802.11ax40_ANT1_2452_MCS0_DTSBW

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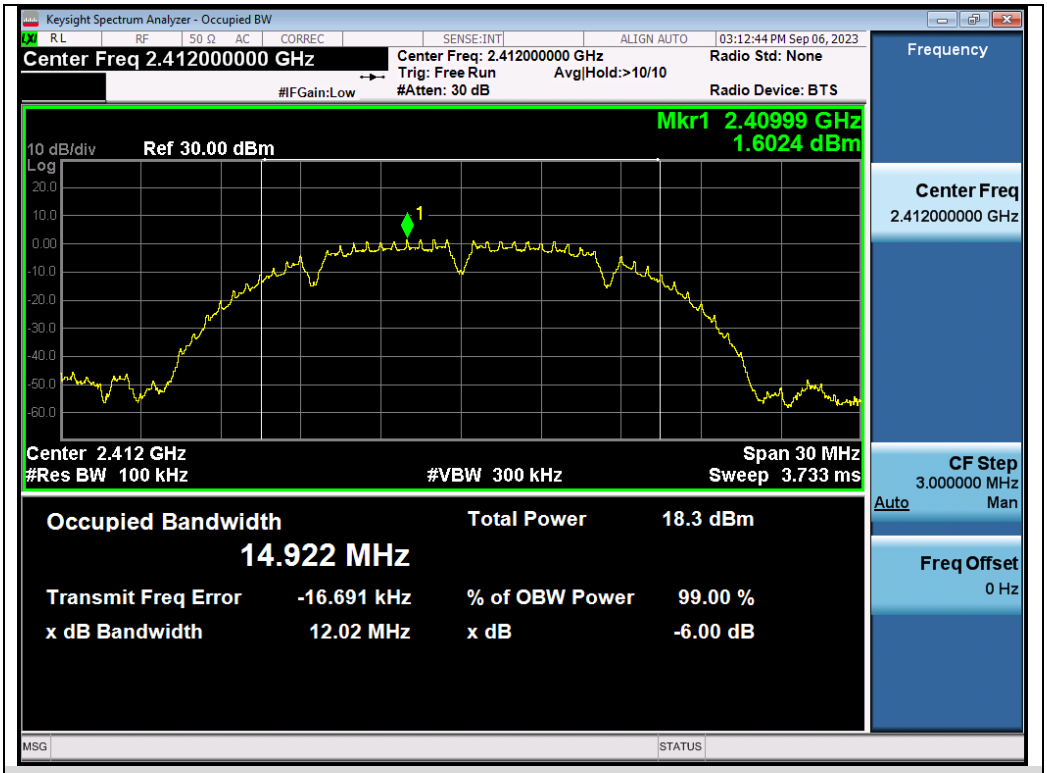

Test_Graph_802.11b_ANT2_2412_1Mbps_DTSBW

Test_Graph_802.11b_ANT2_2437_1Mbps_DTSBW

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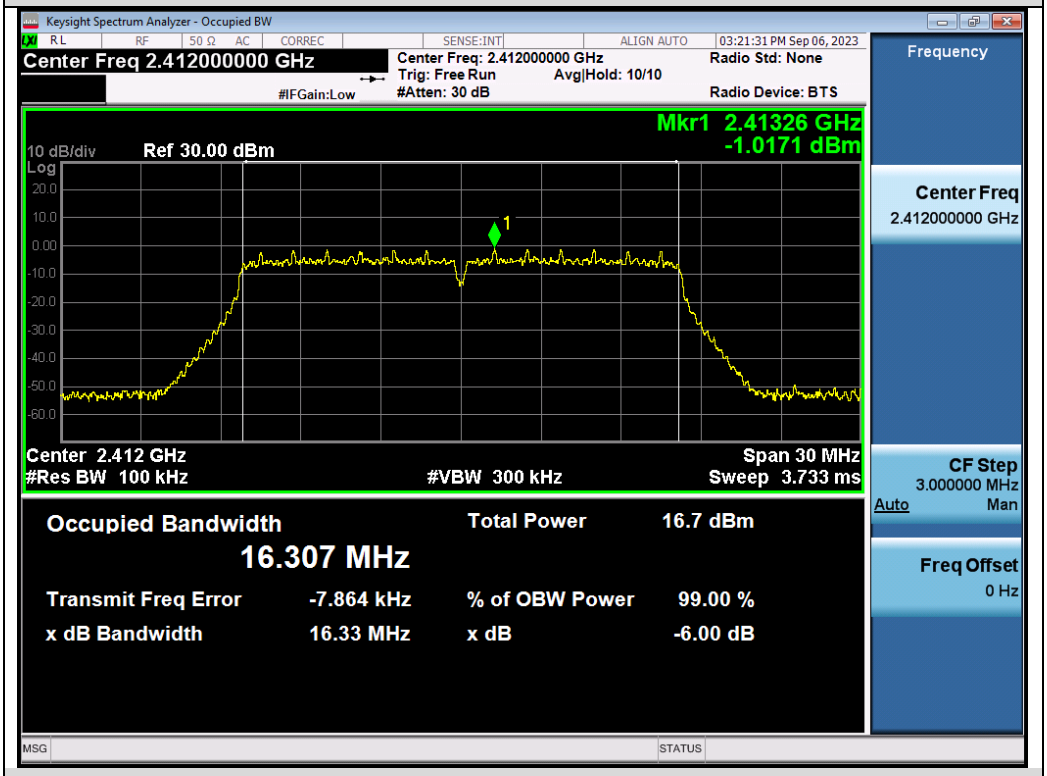
Test_Graph_802.11b_ANT2_2462_1Mbps_DTSBW



Test_Graph_802.11g_ANT2_2412_6Mbps_DTSBW

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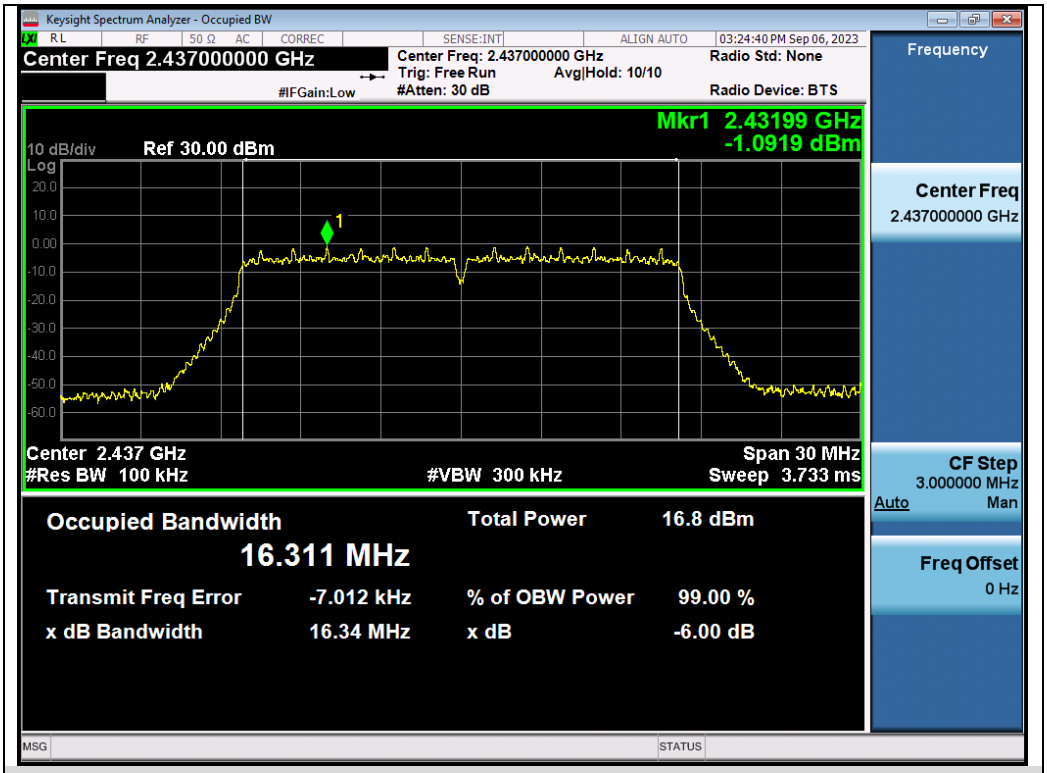

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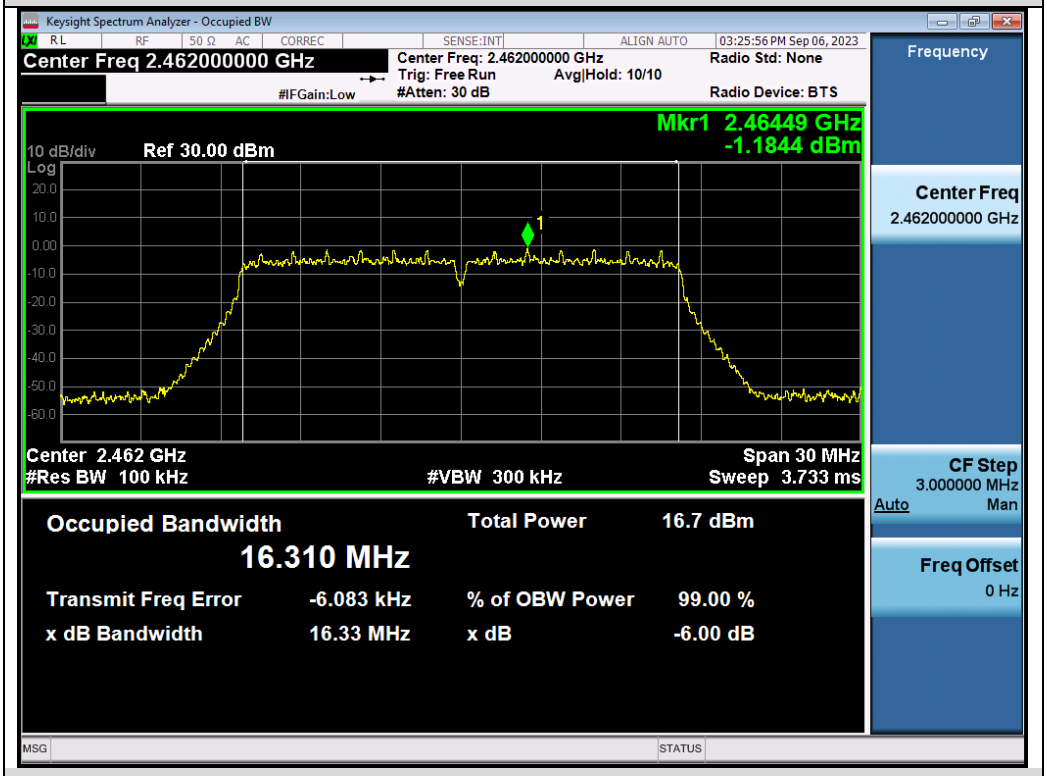

Test_Graph_802.11g_ANT2_2462_6Mbps_DTSBW

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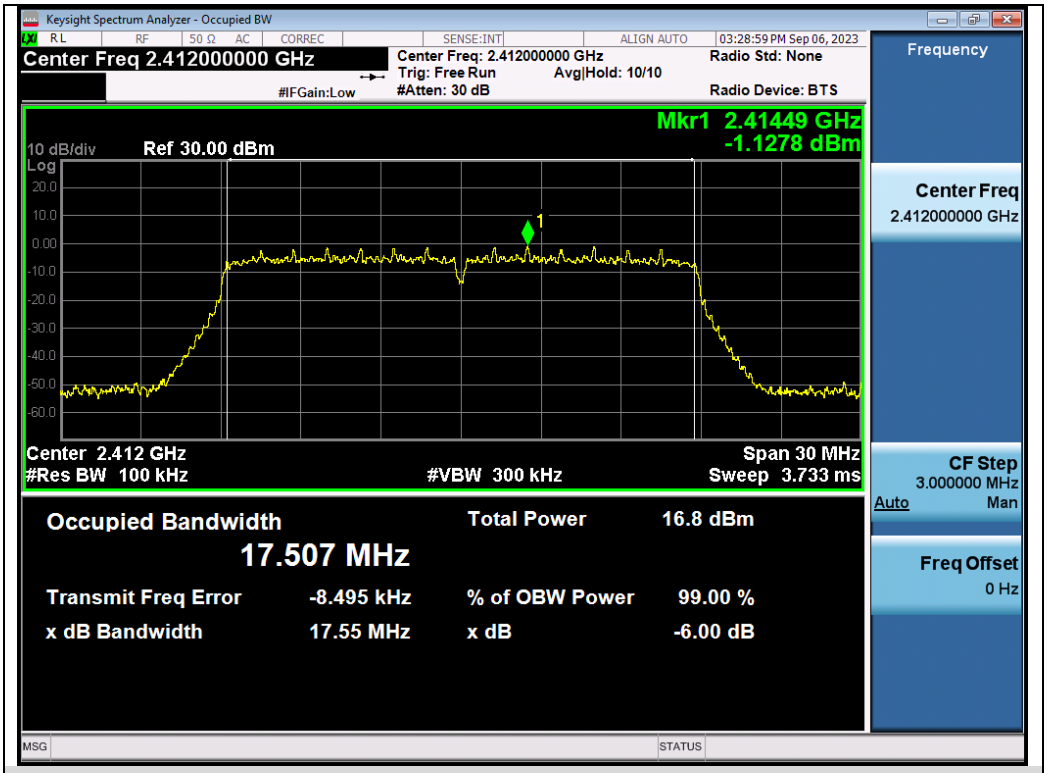

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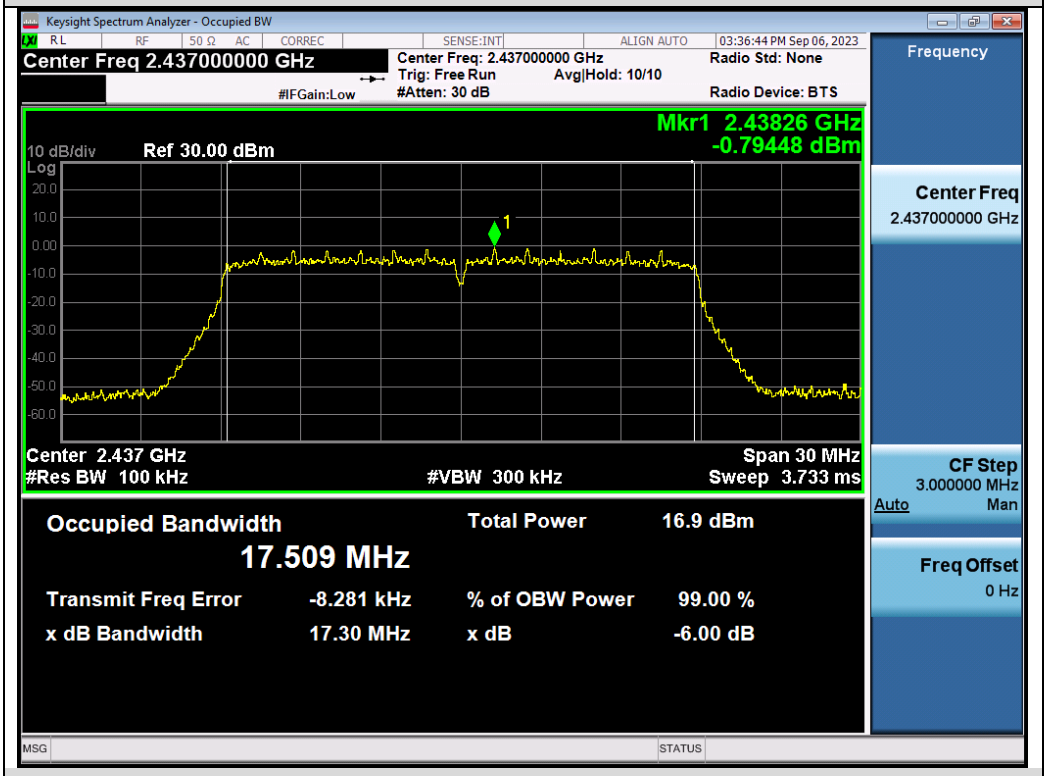

Test_Graph_802.11n20_ANT2_2437_MCS0_DTSBW

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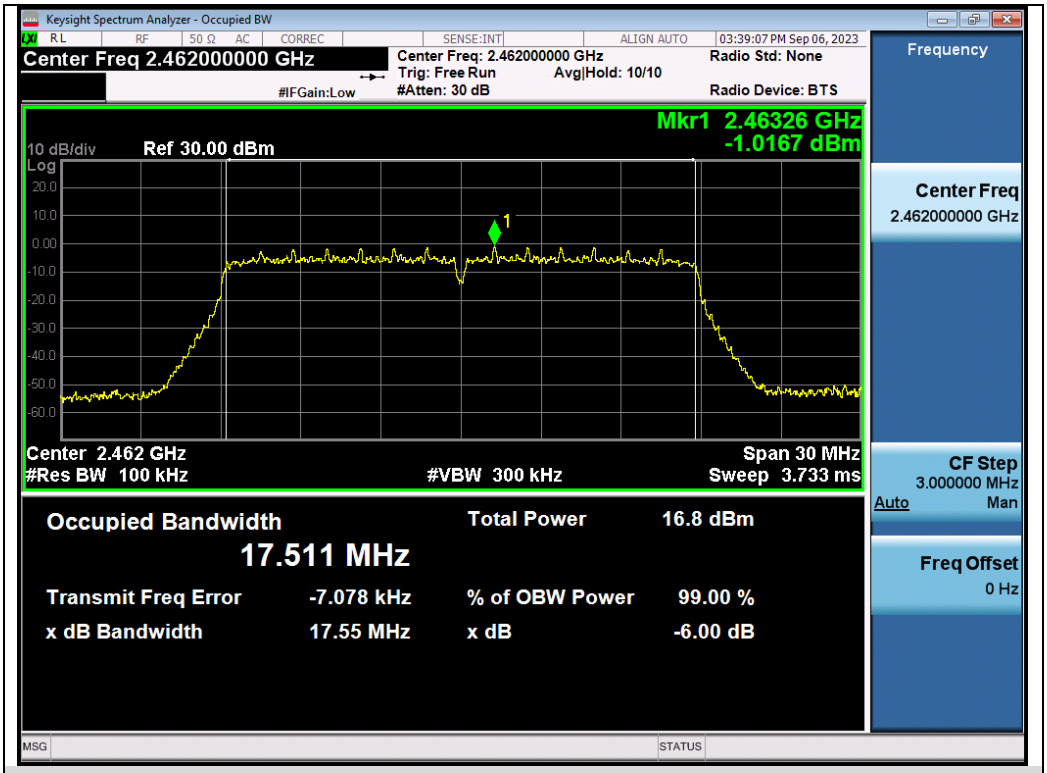

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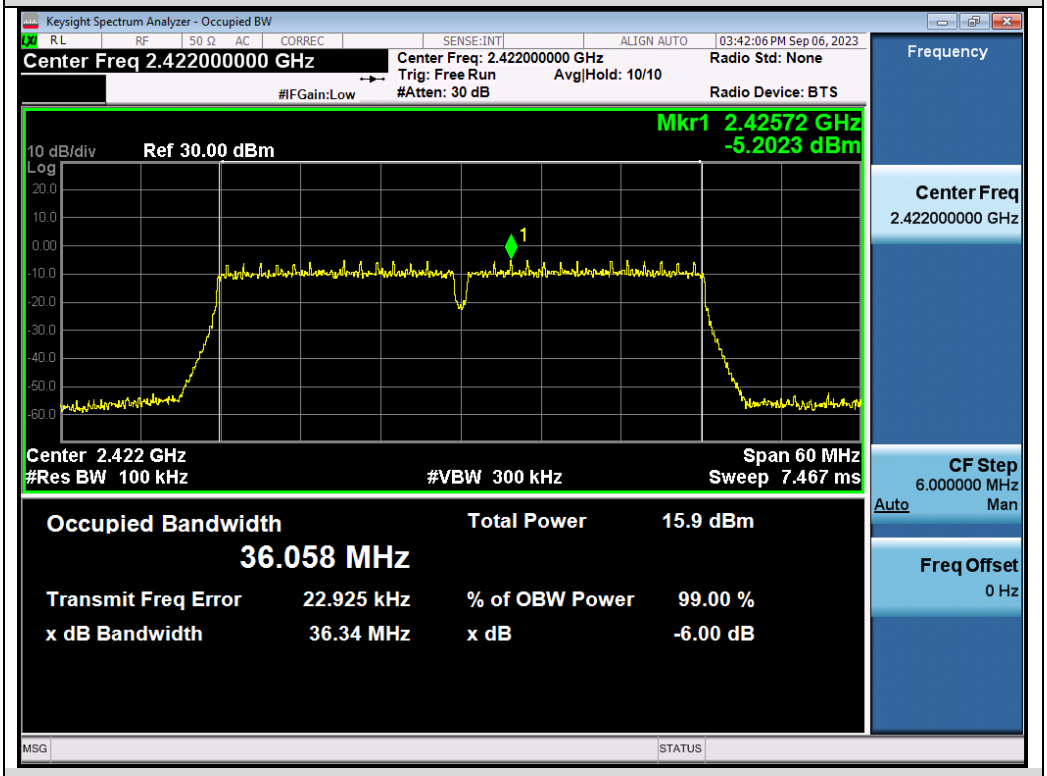

Test_Graph_802.11n40_ANT2_2422_MCS0_DTSBW

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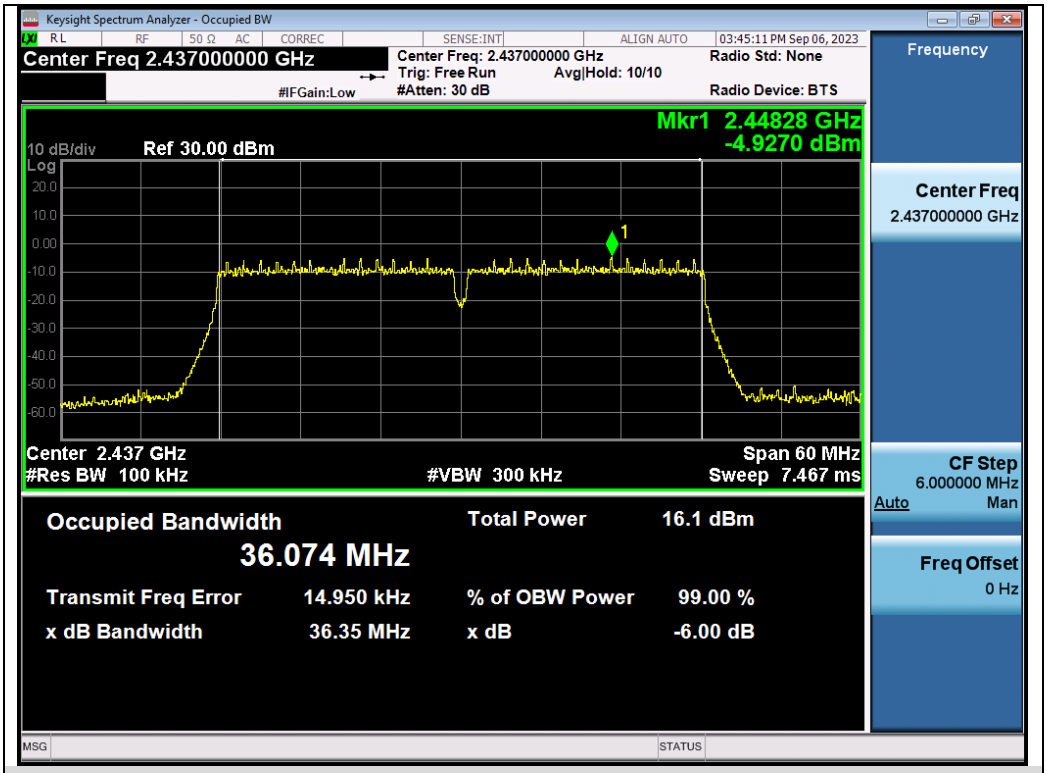

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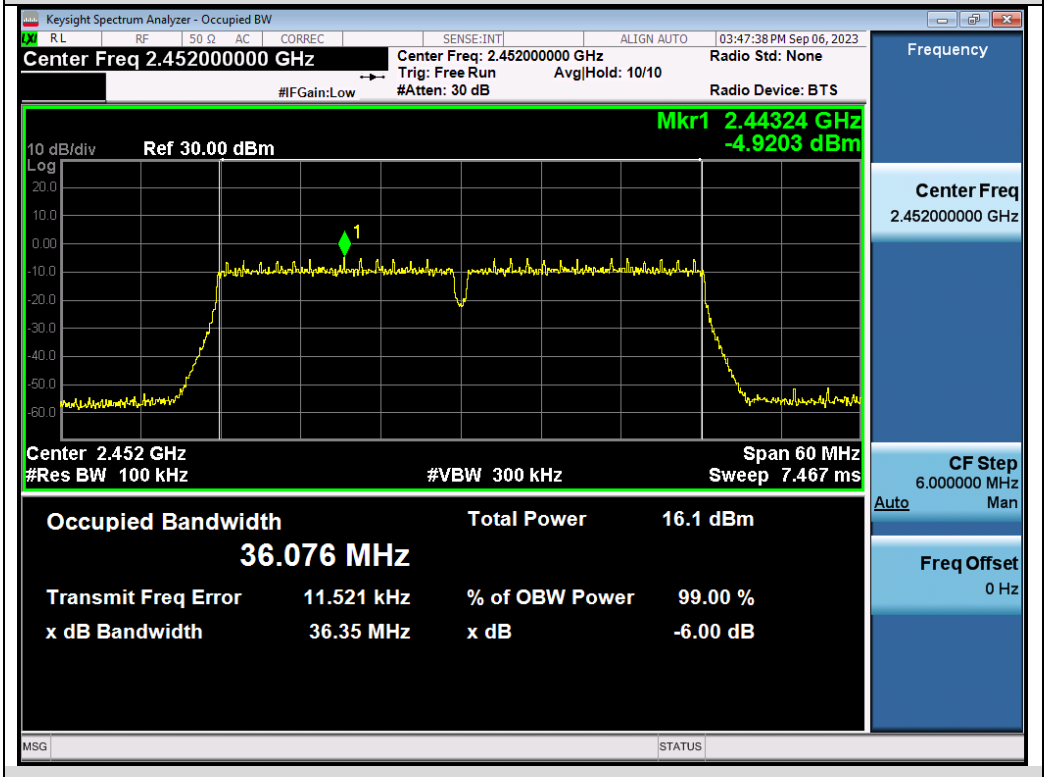

Test_Graph_802.11n40_ANT2_2452_MCS0_DTSBW

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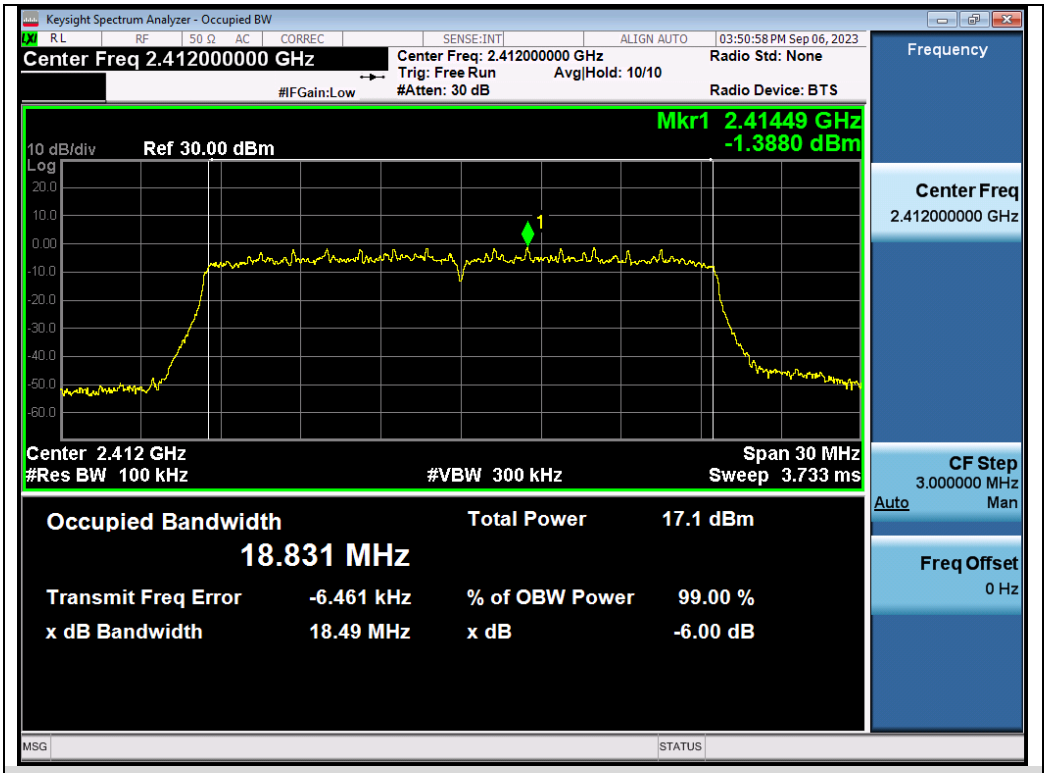

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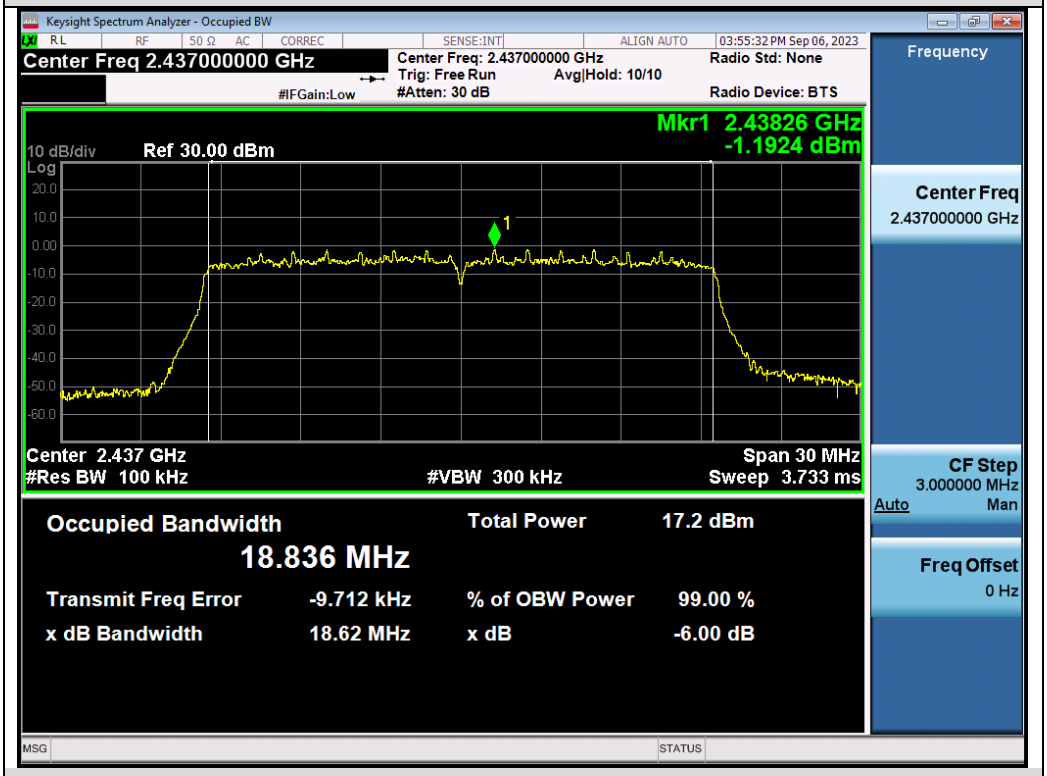

Test_Graph_802.11ax20_ANT2_2437_MCS0_DTSBW

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