FCC Test Report

Report No.: AGC06662240401FR01

FCC ID	:	2ANTC-C290
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Wireless IP Camera
BRAND NAME	:	N/A
MODEL NAME	:	C290, C290A, C290B, C292, C292A, C292B
APPLICANT	:	Ansjer Electronics Co., Ltd
DATE OF ISSUE	:	May 28, 2025
STANDARD(S)	:	FCC Part 15 Subpart C §15.247
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

Attestation of Global Compliance (Shenzhen) Co., Ltd

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 28, 2025	Valid	Initial Release

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1. General Information

Applicant	Ansjer Electronics Co., Ltd
Address	301,1st Building,No.21 Yongtian Road, Xiangzhou,Zhuhai, Guangdong, China
Manufacturer	Zhuhai Ansjer Electronics Co., Ltd. Zhongshan Branch
Address	Building C(2nd to 5th Floor), BuildingB(Section A, 2nd Floor; 4rd to 5th Floors), No. 5 Wanli Road, Sanxiang Town, Zhongshan, Guangdong, China
Factory	Zhuhai Ansjer Electronics Co., Ltd. Zhongshan Branch
Address	Building C(2nd to 5th Floor), BuildingB(Section A, 2nd Floor; 4rd to 5th Floors), No. 5 Wanli Road, Sanxiang Town, Zhongshan, Guangdong, China
Product Designation	Wireless IP Camera
Brand Name	N/A
Test Model	C290
Series Model(s)	C290A, C290B, C292, C292A, C292B
Difference Description	All the same except the model name
Date of receipt of test item	Apr. 25, 2024
Date of Test	Apr. 25, 2024~ Jan. 20, 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	Thea Huang Thea Huang (Project Engineer)	May 28, 2025
Reviewed By	Bibo zhang Bibo Zhang (Reviewer)	May 28, 2025
Approved By	Angela Li Angela Li (Authorized Officer)	May 28, 2025

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:14.16dBm; IEEE 802.11g:13.06dBm; IEEE 802.11n(HT20):12.97dBm; IEEE 802.11n(HT40):10.13dBm IEEE 802.11ax (HE20):10.51dBm; IEEE 802.11ax (HE40):10.23dBm
Output Power (Peak)	IEEE 802.11b:16.77dBm; IEEE 802.11g:20.68dBm; IEEE 802.11n(HT20):20.83dBm; IEEE 802.11n(HT40):18.27dBm IEEE 802.11ax (HE20):20.43dBm; IEEE 802.11ax (HE40):19.05dBm
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 150Mbps 802.11ax: up to 287Mbps
Number of channels	11
Hardware Version	XS7302+K06
Software Version	V4.0.4.730201450MA
Antenna Designation	Monopole Antenna
Antenna Gain	3.97dBi
Power Supply	DC 12V

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	--		

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

2.4 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2ANTC-C290,** 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

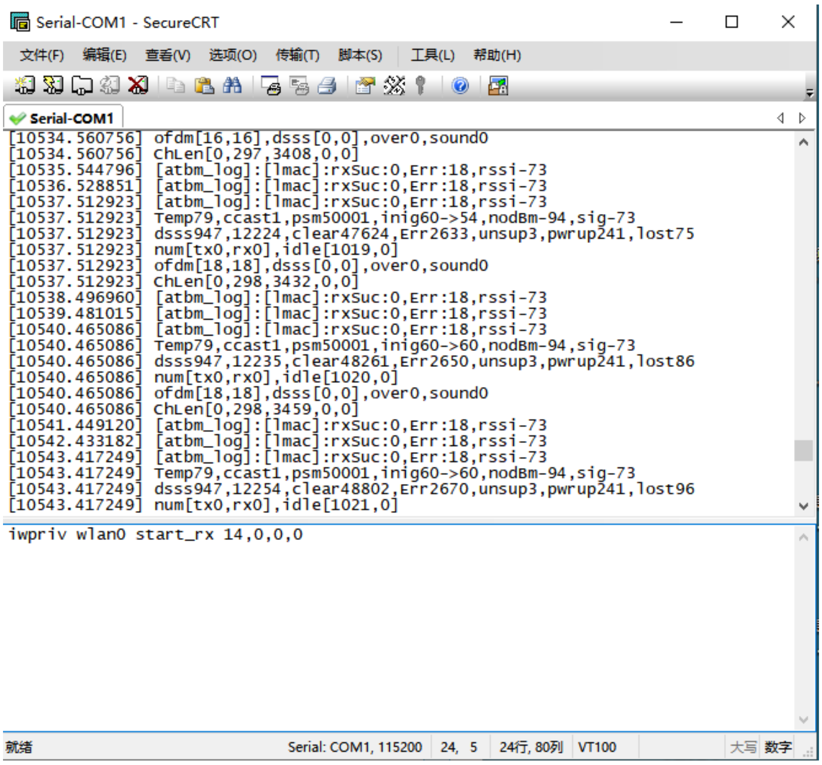
Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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. The gain of the antenna is 3.97dBi.

2.9 Description of Test Software

<u>For IEEE 802.11 mode:</u>

The test utility software used during testing was “SecureCRT”, and the version was “4.0.00132.0”.

Software Setting Diagram



Test Mode	Channel	Power Index
802.11b	L/M/H	-5
802.11g	L/M/H	-5
802.11n-HT20	L/M/H	-5
802.11ax-HE20	L/M/H	-10
802.11n-HT40	L/M/H	-10
802.11ax-HE40	L/M/H	-10

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.

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 %
Uncertainty of Duty Cycle	U_c = ±2 %

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	2024-05-24	2025-05-23
☒	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2025-01-30	2026-01-29
☒	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2024-02-01	2025-01-31
☒	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2024-02-01	2025-01-31
☒	AGC-ER-E091	DC Power Supply	AIDEKESI	IT6720	800103030787810080	2024-03-28	2026-03-27
☒	N/A	RF Connection Cable	N/A	1#	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	100096	2024-02-01	2025-01-31
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-03-31	2025-03-30
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2024-05-23	2025-05-22
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08

● 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-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23
☒	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2024-02-01	2026-01-31
☒	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2024-05-28	2025-05-27

● 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-EM-S004	RE Test System	Tonscend	TS+Ver2.1(JS32-RE)	4.0.0.0
☒	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

4.System Test Configuration

4.1 EUT Configuration

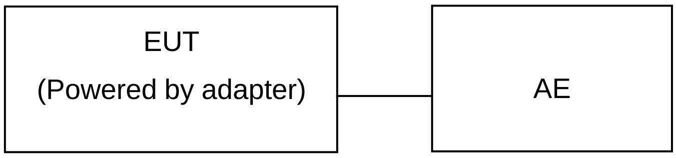
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

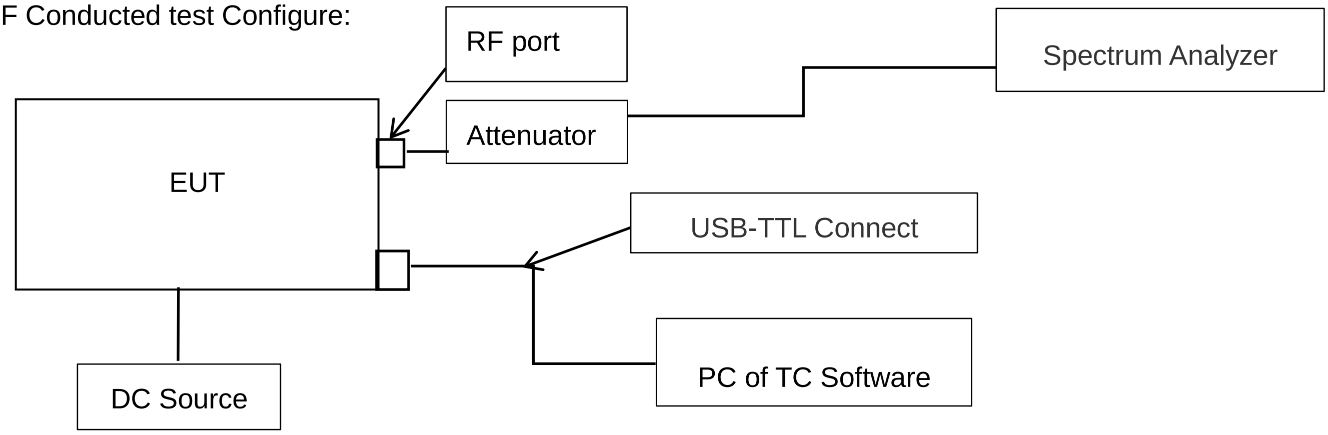
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

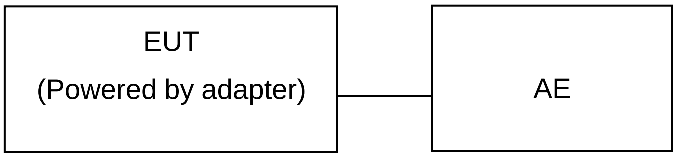
Radiated Emission Configure:



RF Conducted test Configure:



AC Power Line Conducted Emission Configure:



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	Control Box	RISYM	USB-TTL	--	--
2	PC	Redmi	XMA2002-AB	--	
3	Adapter(PC)	Redmi	AD651	--	1.2m unshielded

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	--	--	--	--	
2	--	--	--	--	

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

5. Description of Test Modes

<table>
<tr><th colspan="2">Summary table of Test Cases</th></tr>
<tr><th rowspan="2">Test Item</th><th>Data Rate / Modulation</th></tr>
<tr><th>2.4G WLAN – 802.11b/g/n/ax (DSSS/OFDM/OFDMA)</th></tr>
<tr><td>Radiated Test Cases
(Powered from AC/DC Adapter)</td><td rowspan="2">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</td></tr>
<tr><td>Conducted Test Cases
(Powered from DC Source)</td></tr>
<tr><td>AC Conducted Emission</td><td>Mode 1: 2.4G WLAN Link(Powered from AC/DC Adapter)</td></tr>
</table>

Note:
1. The 802.11ax mode is only tested and evaluated at Full RU bandwidth.
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. Only the result of the worst case was recorded in the report, if no other cases.
5. 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.
6. 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)

6. Duty Cycle Measurement

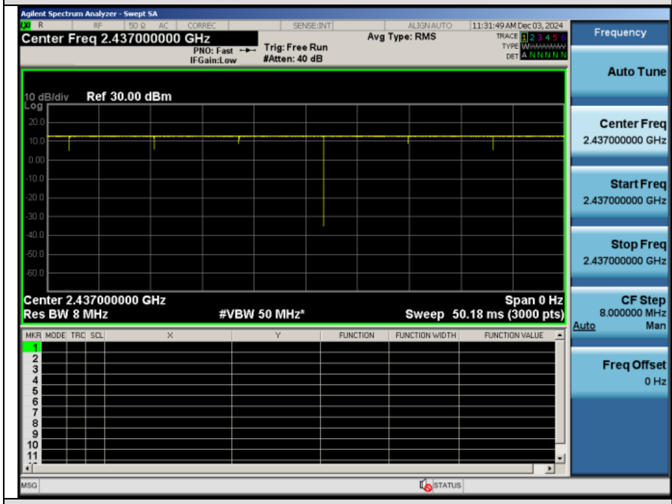
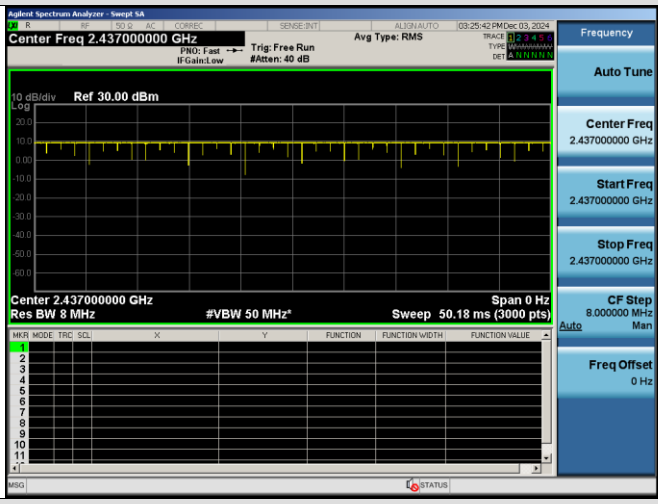
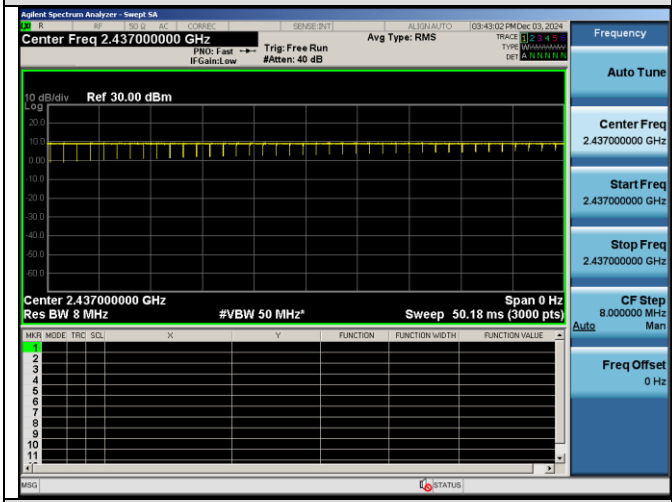
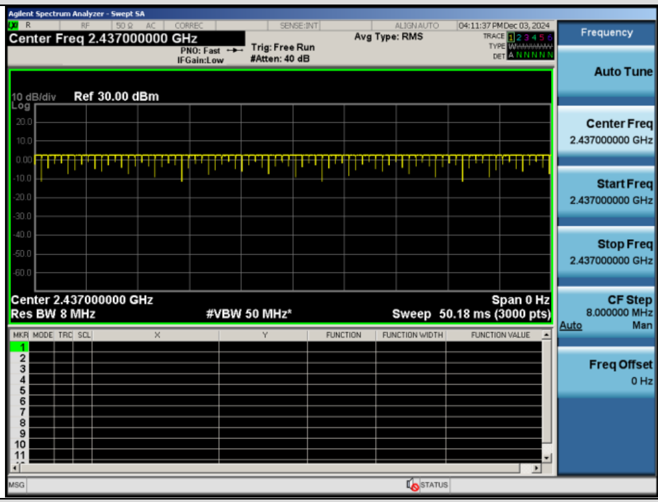
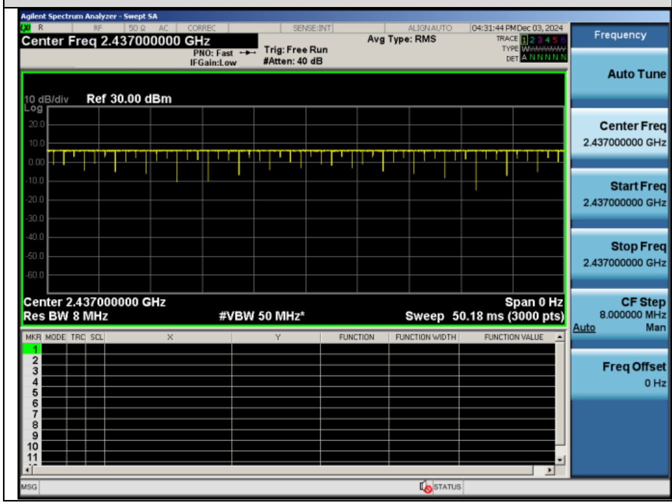
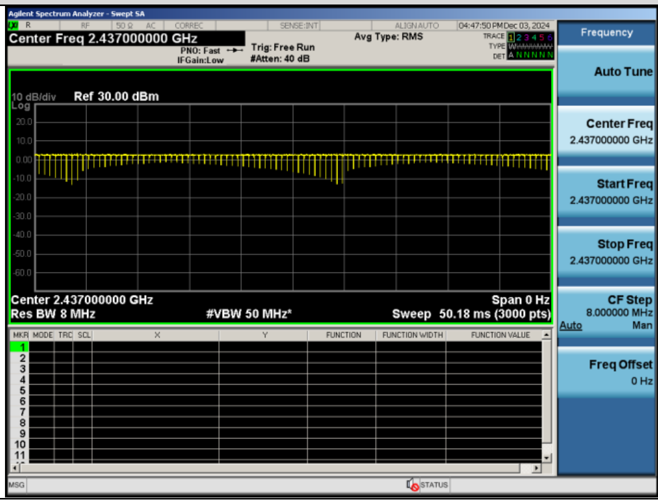
2.4GHz WLAN (DTS) operation is possible in 20MHz, and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Average. The RBW and VBW were both greater 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	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. The duty cycle of each frequency band mode reflects the determination requirements of the Middle channel measurement value.

- 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
	

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

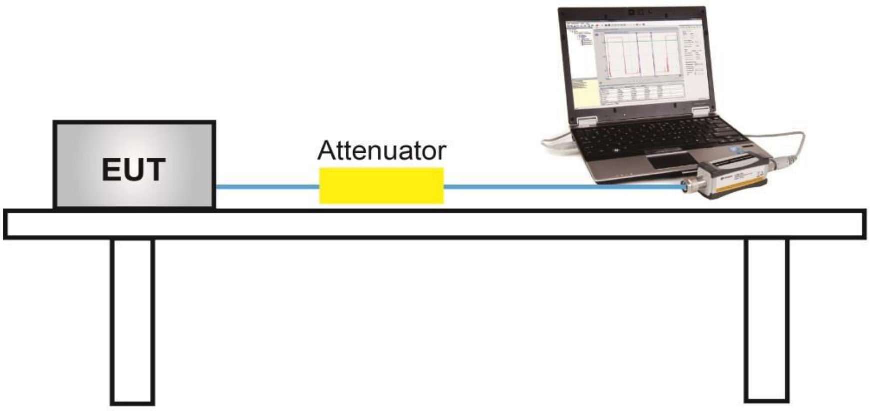
☒Method PM is Measurement using an RF Peak power meter. The procedure for this method is as follows:

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)



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	14.06	16.60	≤30	Pass
	2437	14.16	16.70	≤30	Pass
	2462	14.04	16.77	≤30	Pass
802.11g	2412	13.06	20.68	≤30	Pass
	2437	12.90	20.49	≤30	Pass
	2462	13.04	20.65	≤30	Pass
802.11n20	2412	12.89	20.68	≤30	Pass
	2437	12.97	20.83	≤30	Pass
	2462	12.93	20.76	≤30	Pass
802.11n40	2422	10.13	18.25	≤30	Pass
	2437	10.12	18.27	≤30	Pass
	2452	9.92	18.03	≤30	Pass
802.11ax20	2412	10.51	20.43	≤30	Pass
	2437	10.44	20.30	≤30	Pass
	2462	10.30	20.17	≤30	Pass
802.11ax40	2422	10.23	19.05	≤30	Pass
	2437	10.14	18.96	≤30	Pass
	2452	10.06	18.88	≤30	Pass

8. 6dB Bandwidth Measurement

8.1 Provisions Applicable

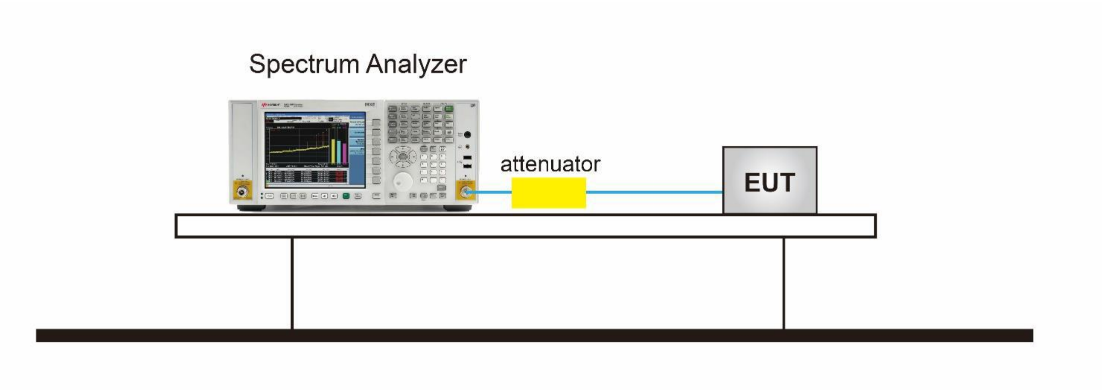
The minimum 6dB bandwidth shall be 500 kHz.

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) ≥ 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.

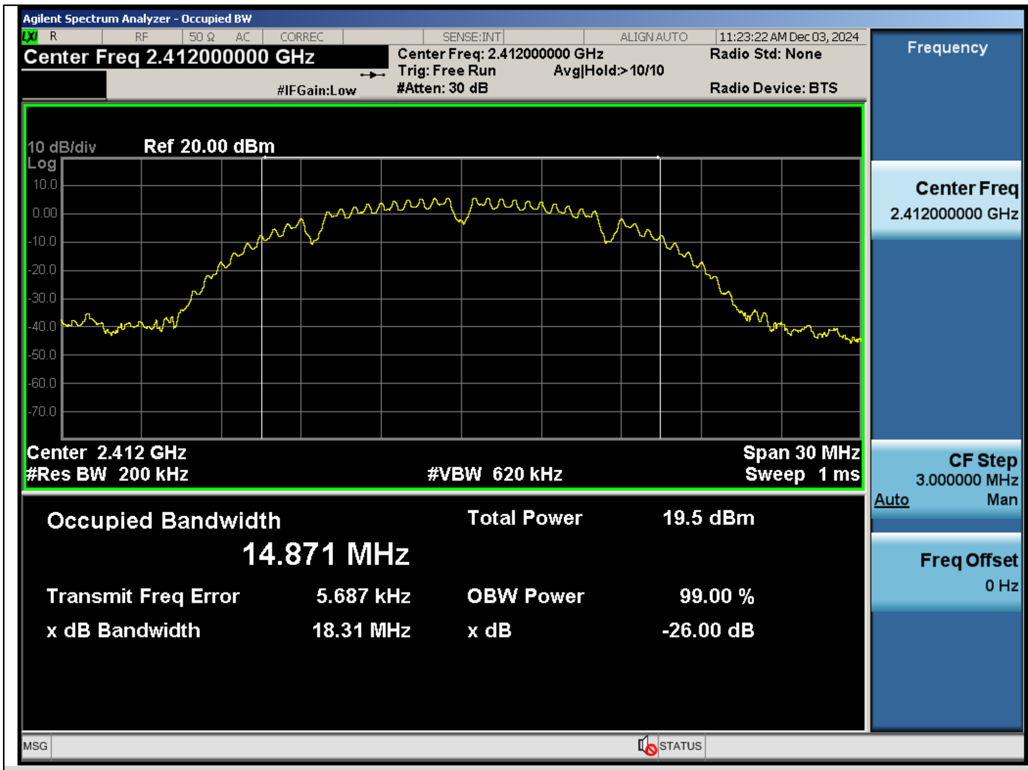
8.3 Measurement Setup (Block Diagram of Configuration)



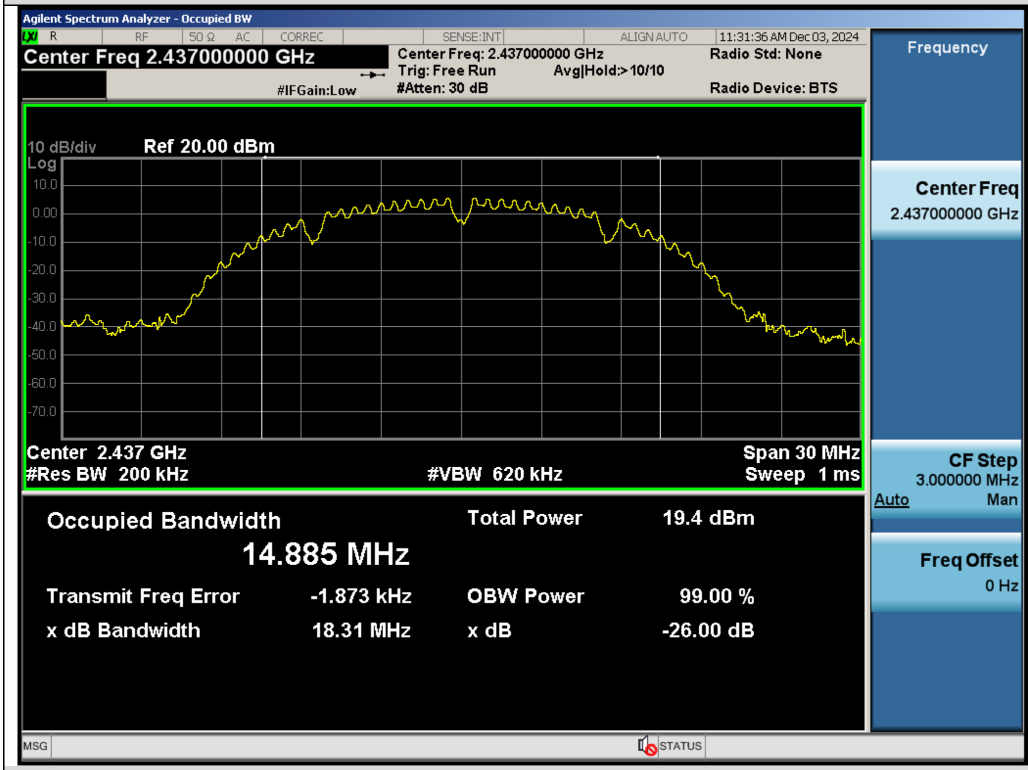
8.4 Measurement Result

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	14.871	10.023	⩾0.5	Pass
	2437	14.885	10.031	⩾0.5	Pass
	2462	14.890	10.085	⩾0.5	Pass
802.11g	2412	16.658	16.384	⩾0.5	Pass
	2437	16.656	16.382	⩾0.5	Pass
	2462	16.657	16.388	⩾0.5	Pass
802.11n20	2412	17.874	17.641	⩾0.5	Pass
	2437	17.879	17.635	⩾0.5	Pass
	2462	17.877	17.631	⩾0.5	Pass
802.11n40	2422	36.245	36.402	⩾0.5	Pass
	2437	36.244	36.412	⩾0.5	Pass
	2452	36.247	36.413	⩾0.5	Pass
802.11ax20	2412	19.050	19.038	⩾0.5	Pass
	2437	19.047	19.035	⩾0.5	Pass
	2462	19.050	19.051	⩾0.5	Pass
802.11ax40	2422	37.873	38.015	⩾0.5	Pass
	2437	37.871	38.028	⩾0.5	Pass
	2452	37.876	38.032	⩾0.5	Pass

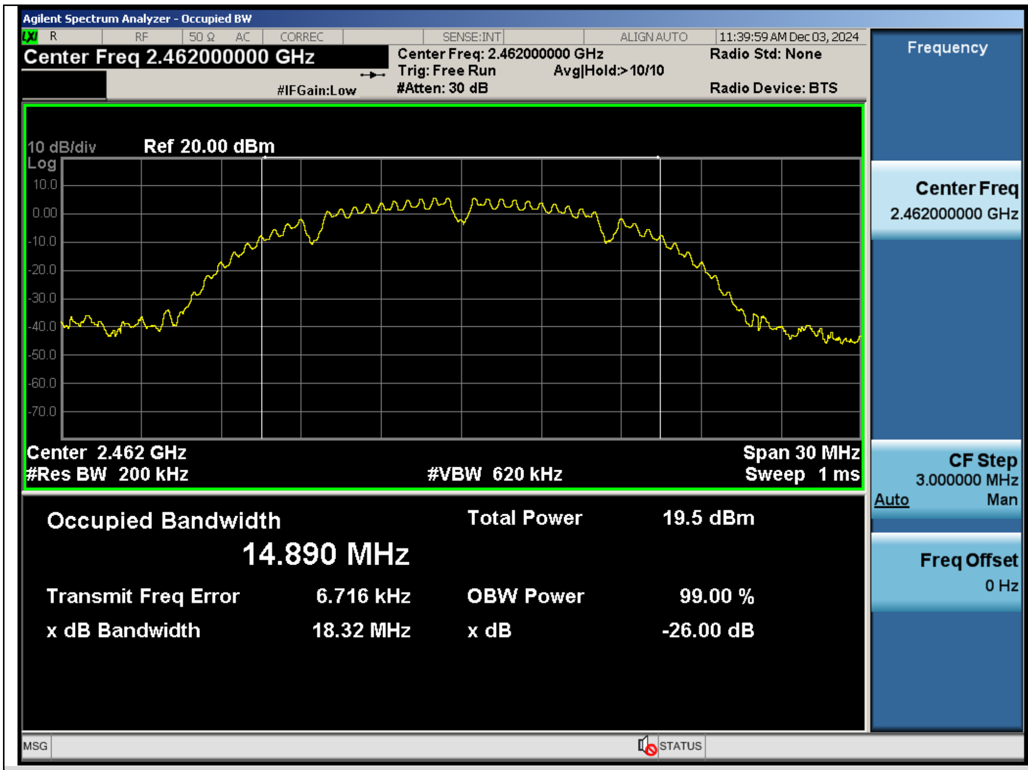
Test Graphs of Occupied Bandwidth



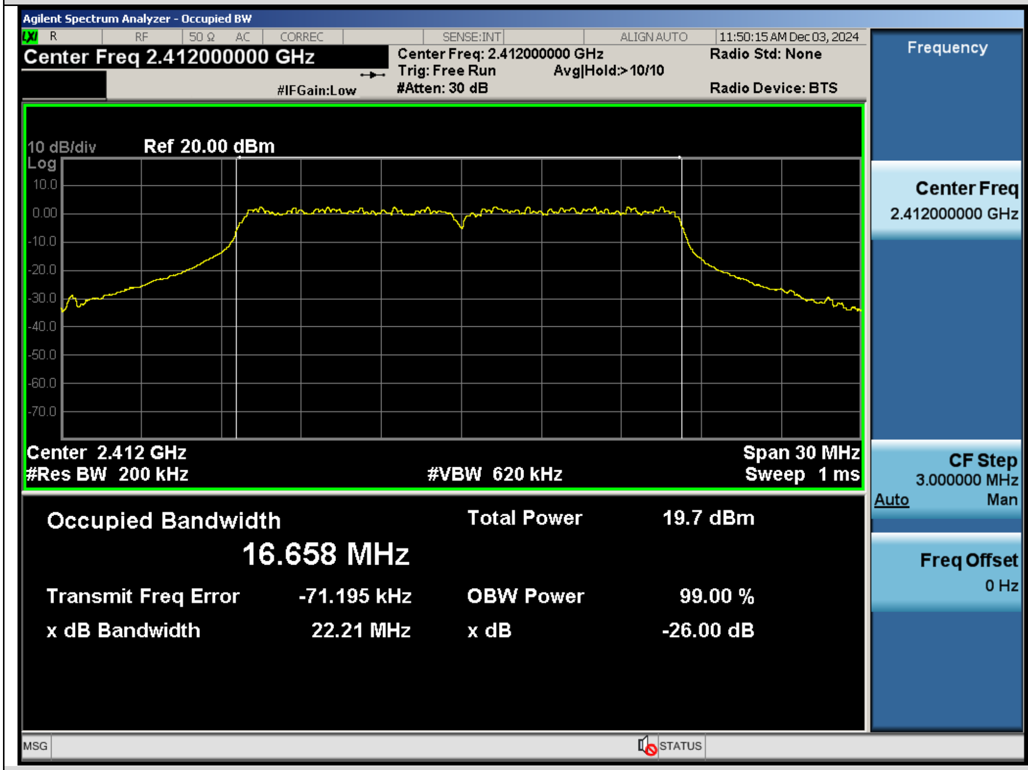
Test_Graph_802.11b_ANT1_2412_1Mbps_OBW



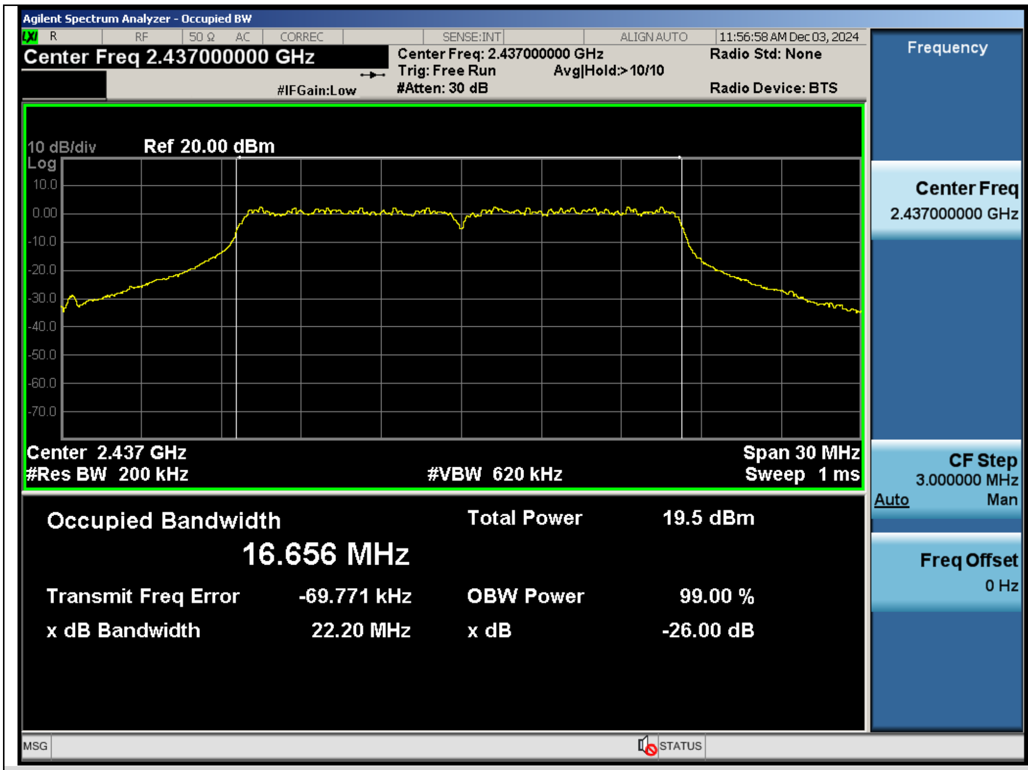
Test_Graph_802.11b_ANT1_2437_1Mbps_OBW



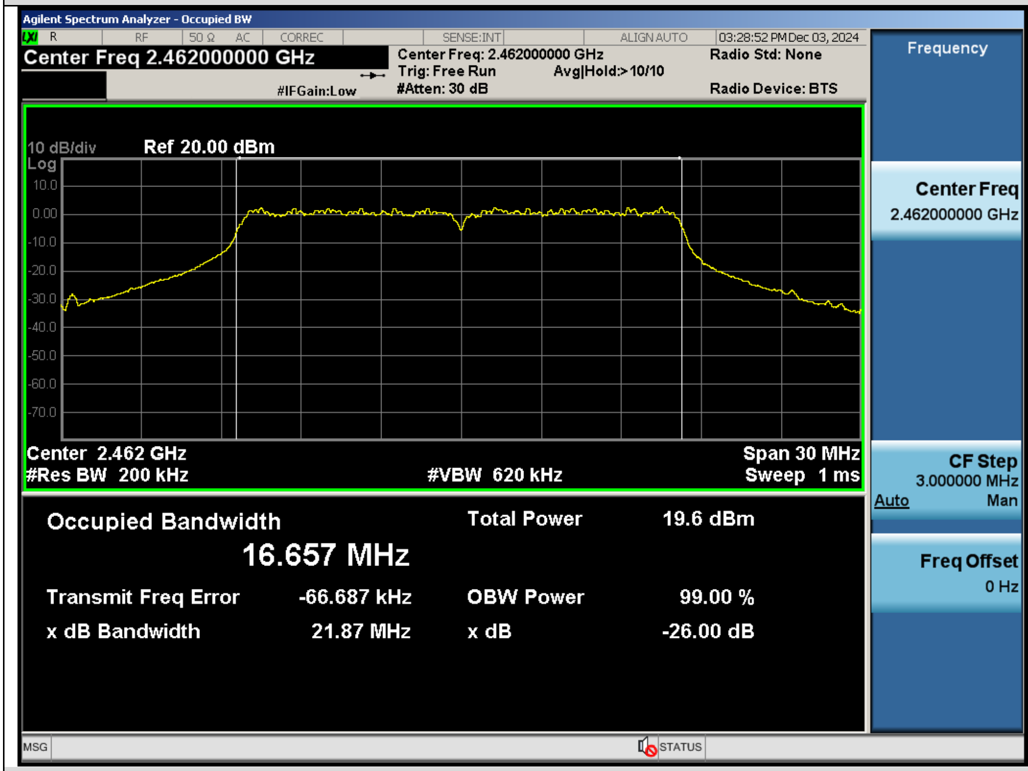
Test_Graph_802.11b_ANT1_2462_1Mbps_OBW



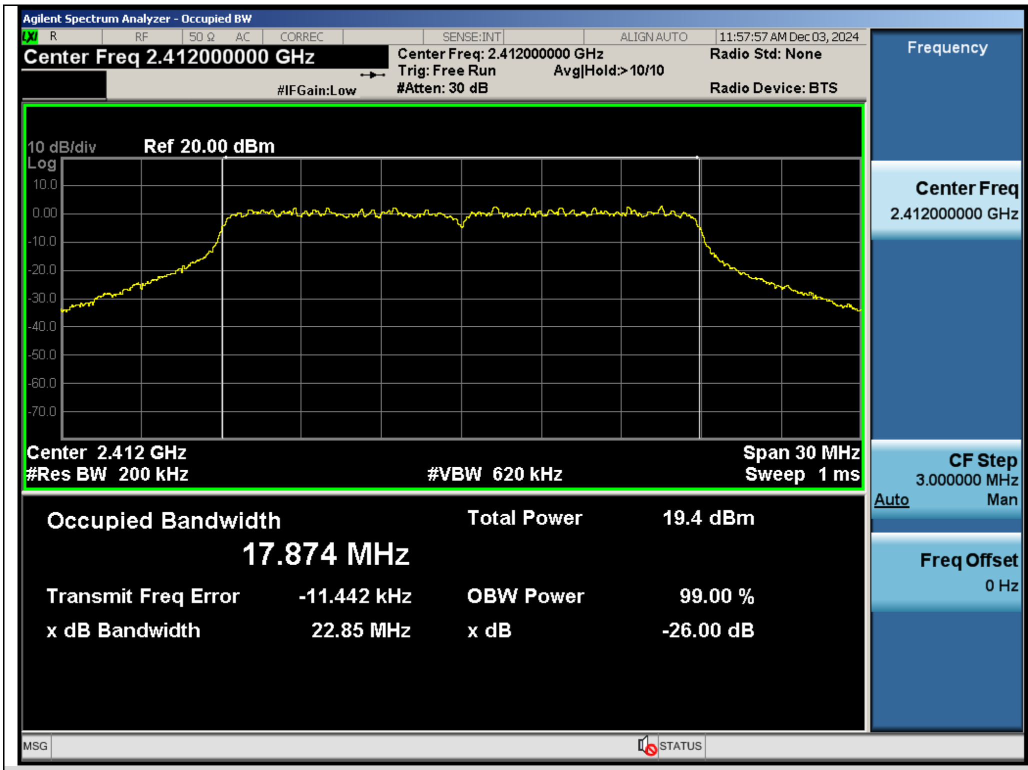
Test_Graph_802.11g_ANT1_2412_6Mbps_OBW



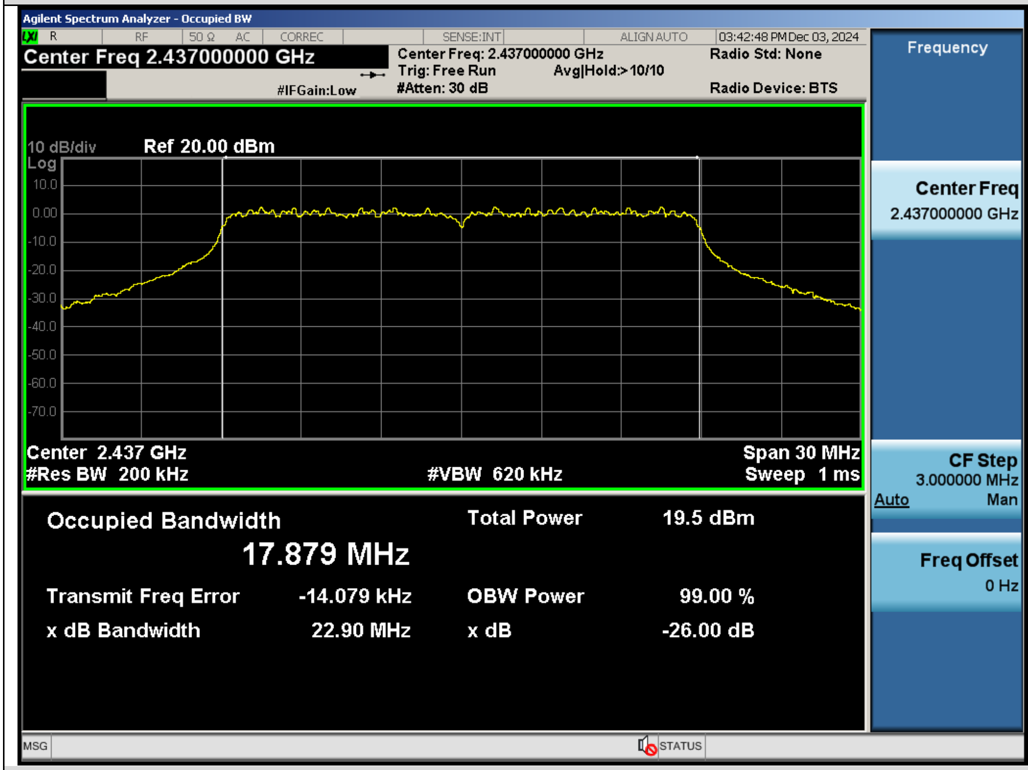
Test_Graph_802.11g_ANT1_2437_6Mbps_OBW



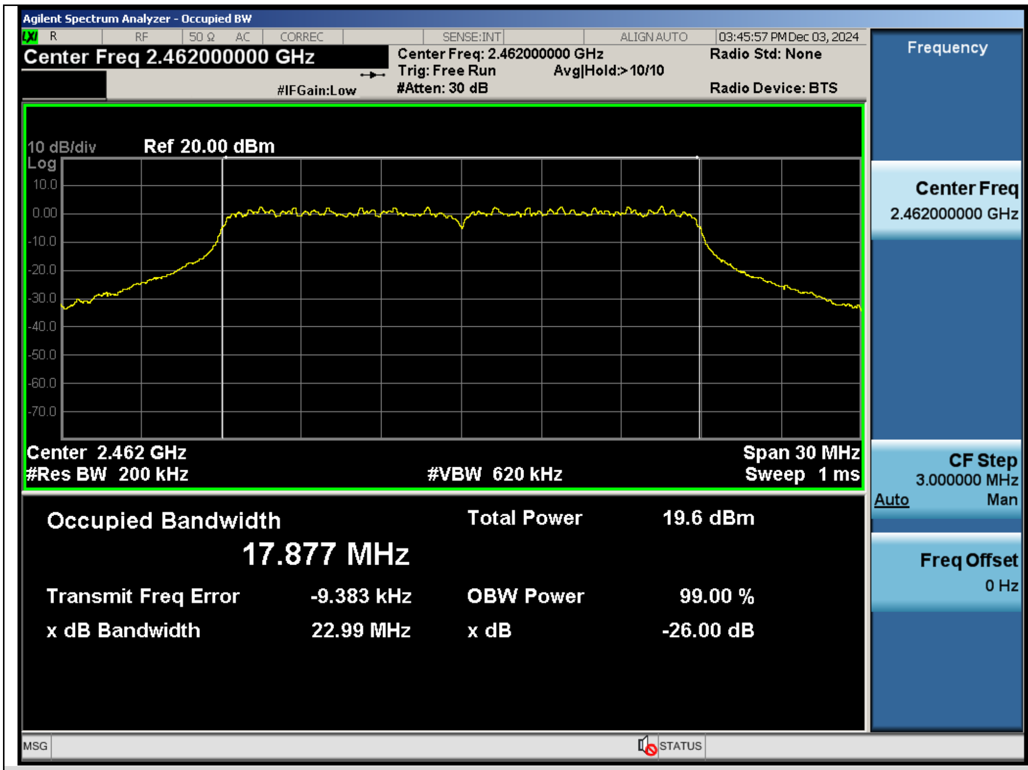
Test_Graph_802.11g_ANT1_2462_6Mbps_OBW



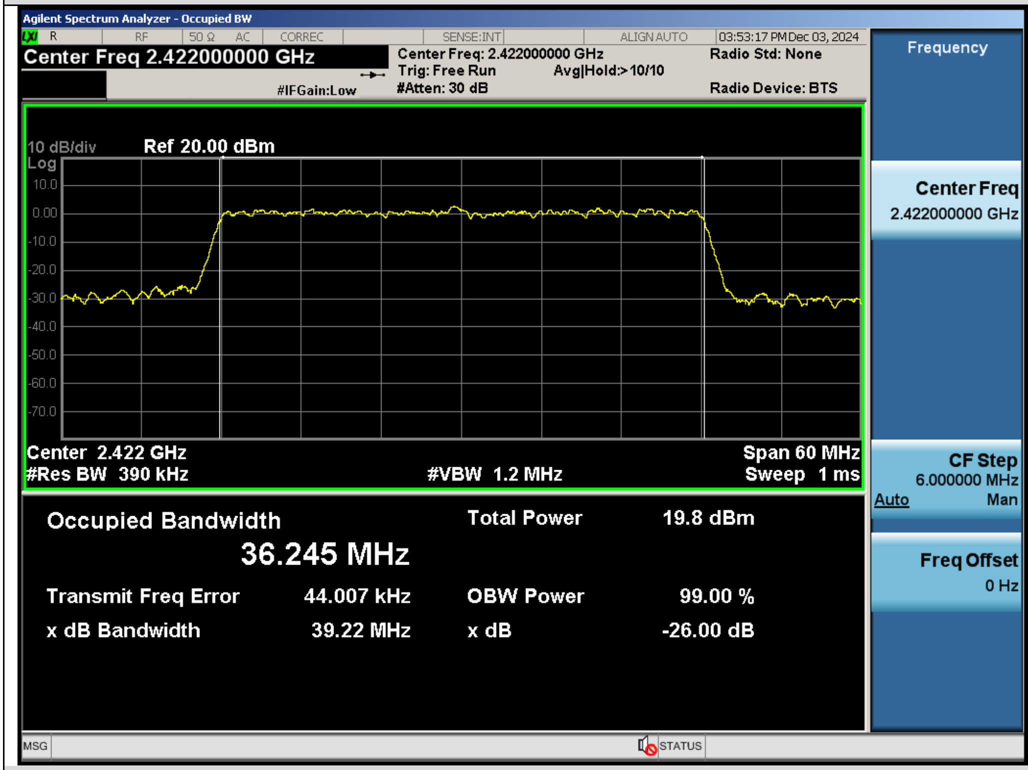
Test_Graph_802.11n20_ANT1_2412_MCS0_OBW



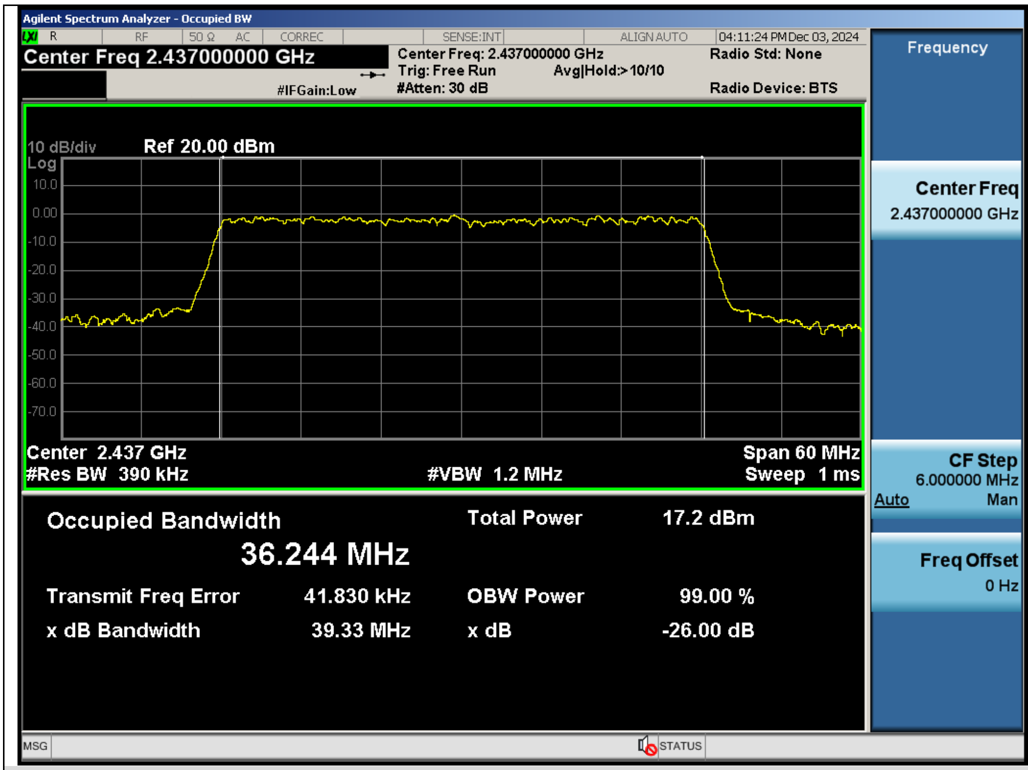
Test_Graph_802.11n20_ANT1_2437_MCS0_OBW



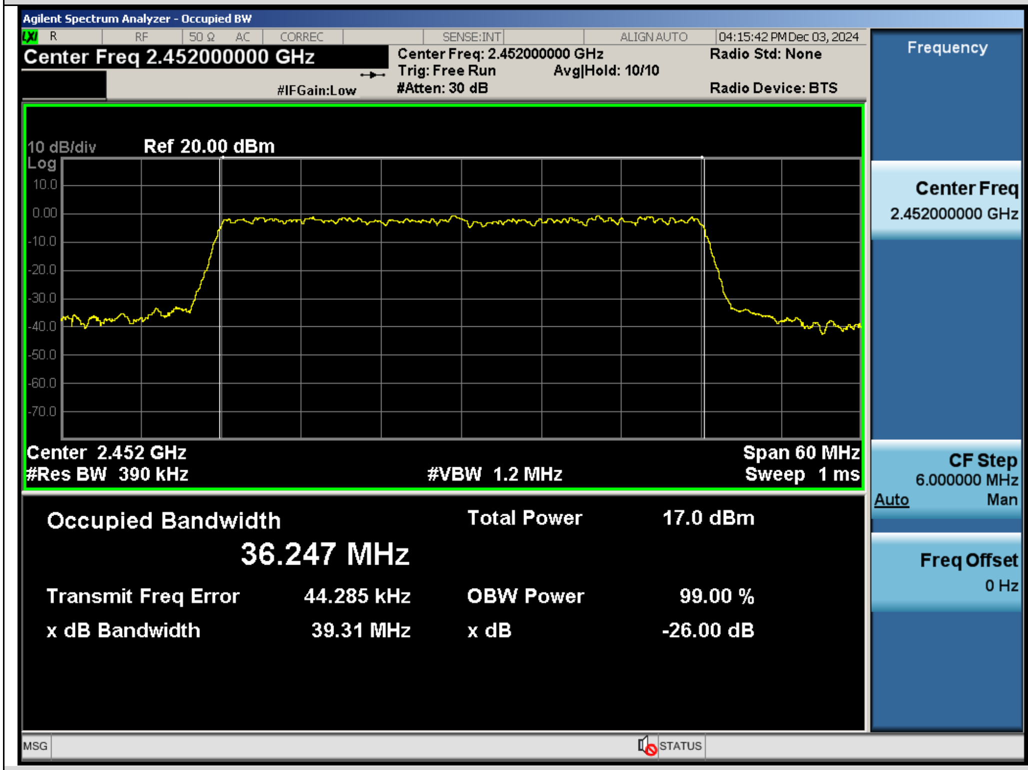
Test_Graph_802.11n20_ANT1_2462_MCS0_OBW



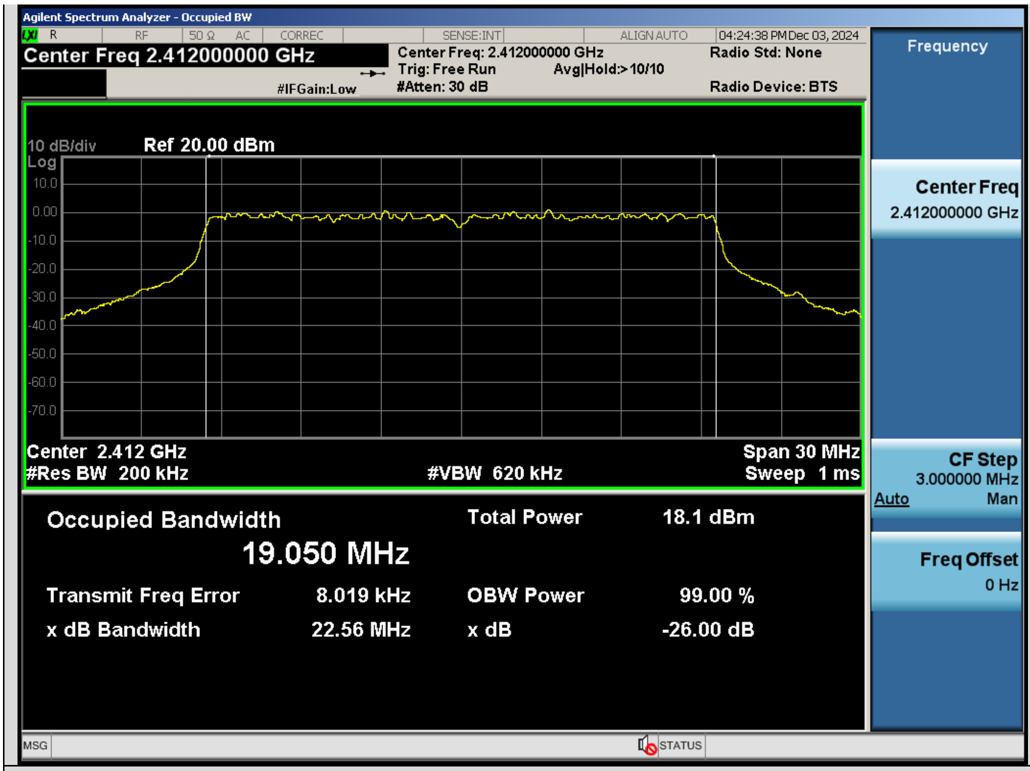
Test_Graph_802.11n40_ANT1_2422_MCS0_OBW



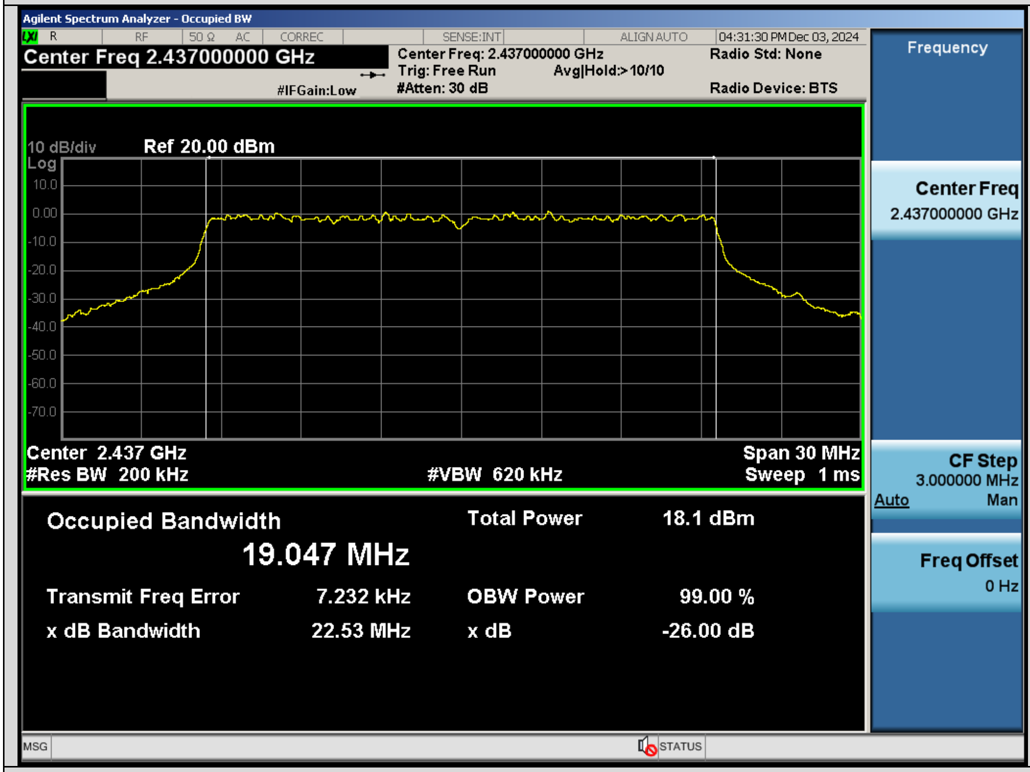
Test_Graph_802.11n40_ANT1_2437_MCS0_OBW



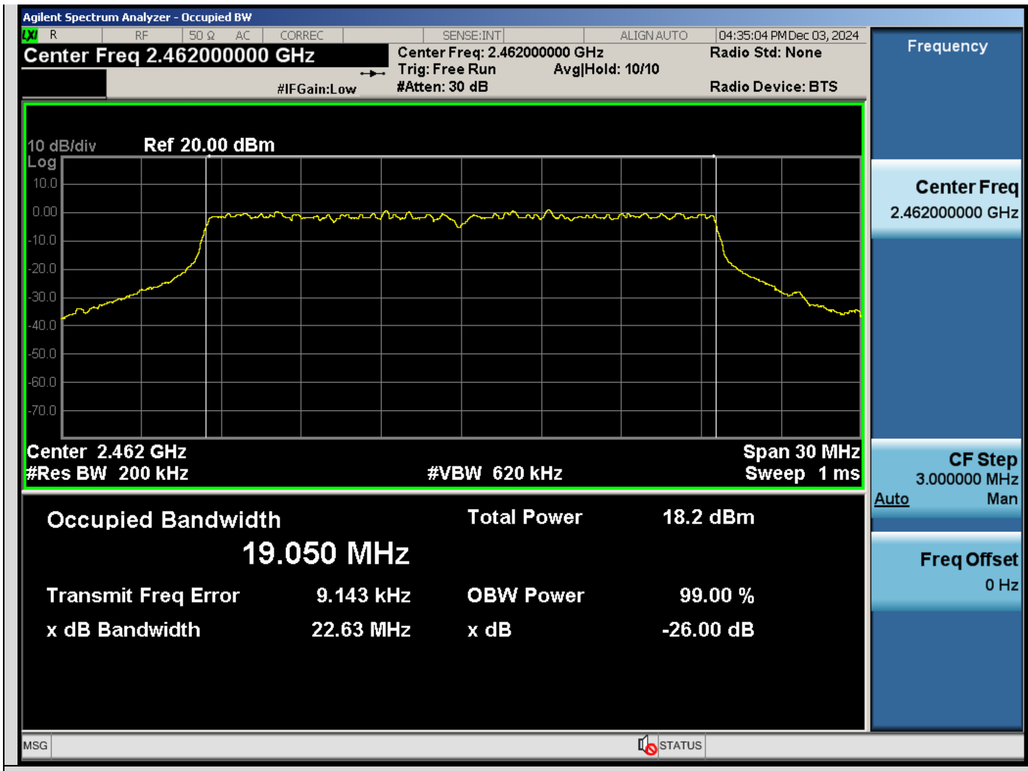
Test_Graph_802.11n40_ANT1_2452_MCS0_OBW



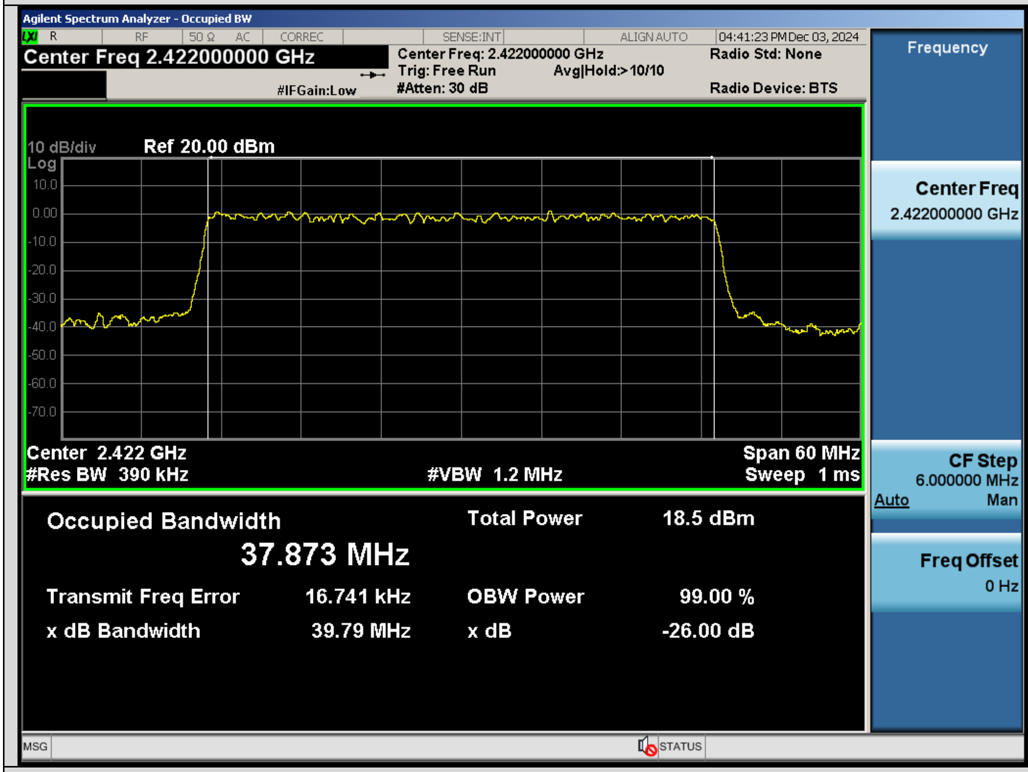
Test_Graph_802.11ax20_ANT1_2412_MCS0_OBW



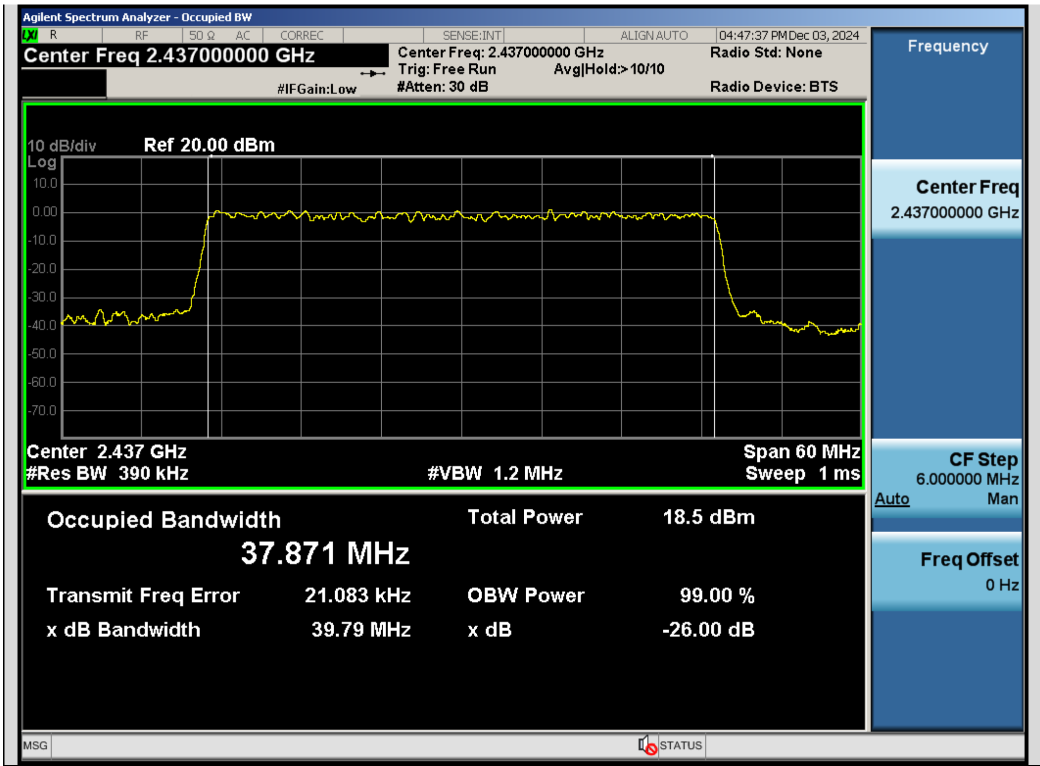
Test_Graph_802.11ax20_ANT1_2437_MCS0_OBW



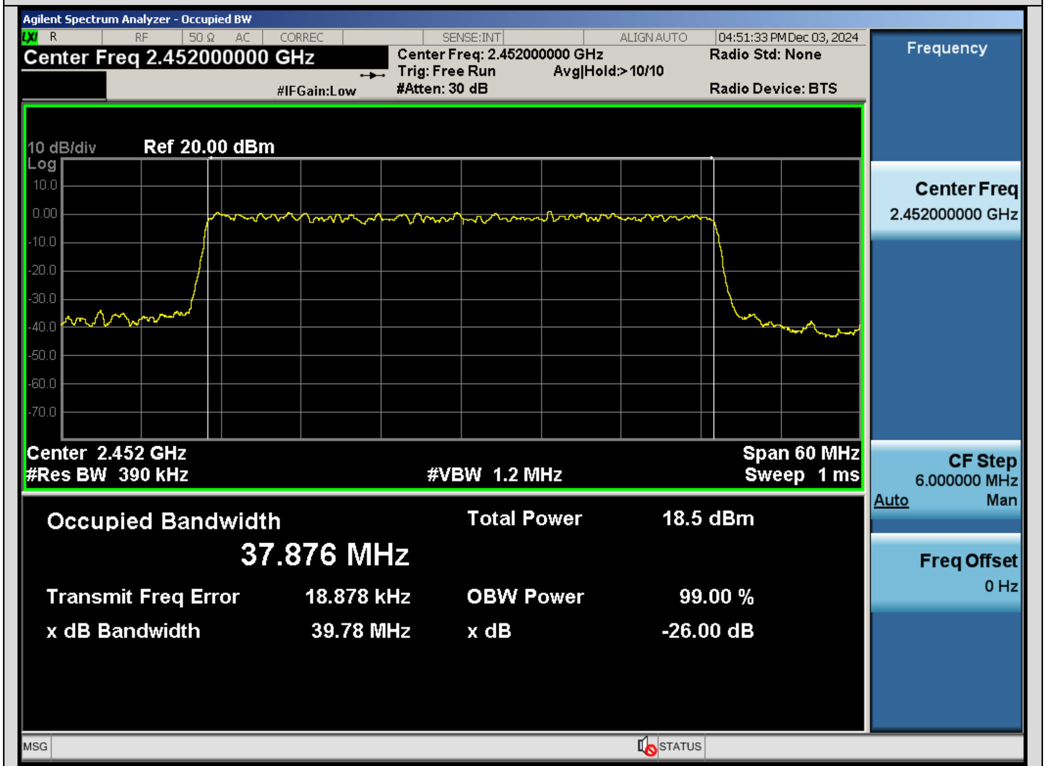
Test_Graph_802.11ax20_ANT1_2462_MCS0_OBW



Test_Graph_802.11ax40_ANT1_2422_MCS0_OBW

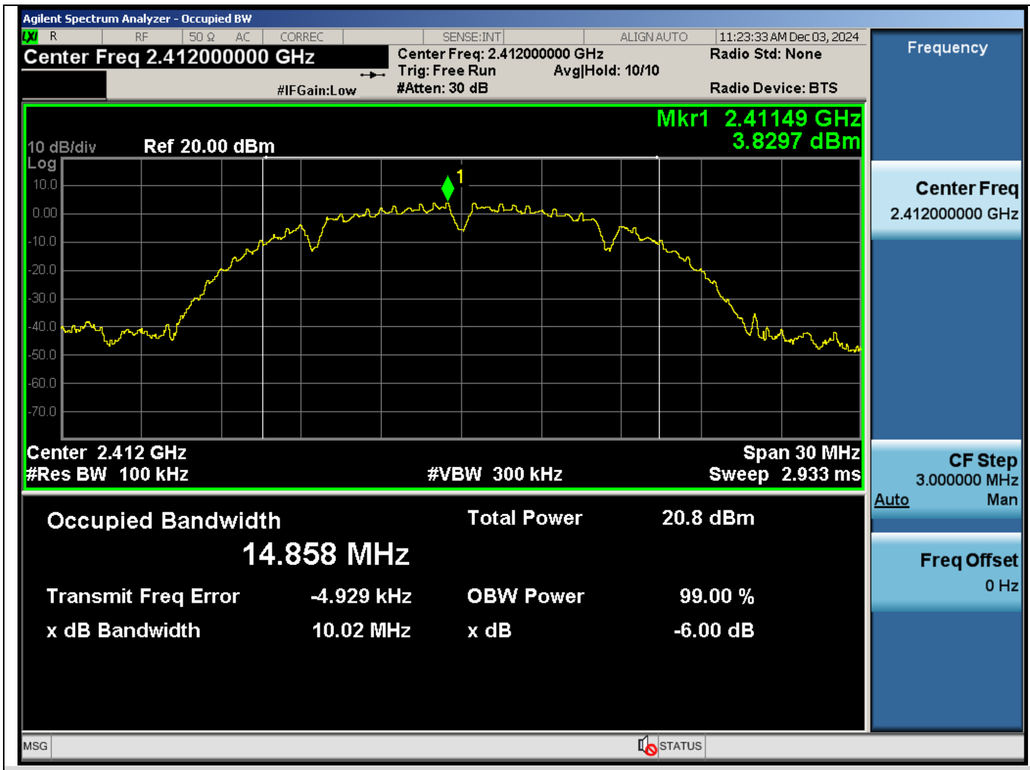


Test_Graph_802.11ax40_ANT1_2437_MCS0_OBW

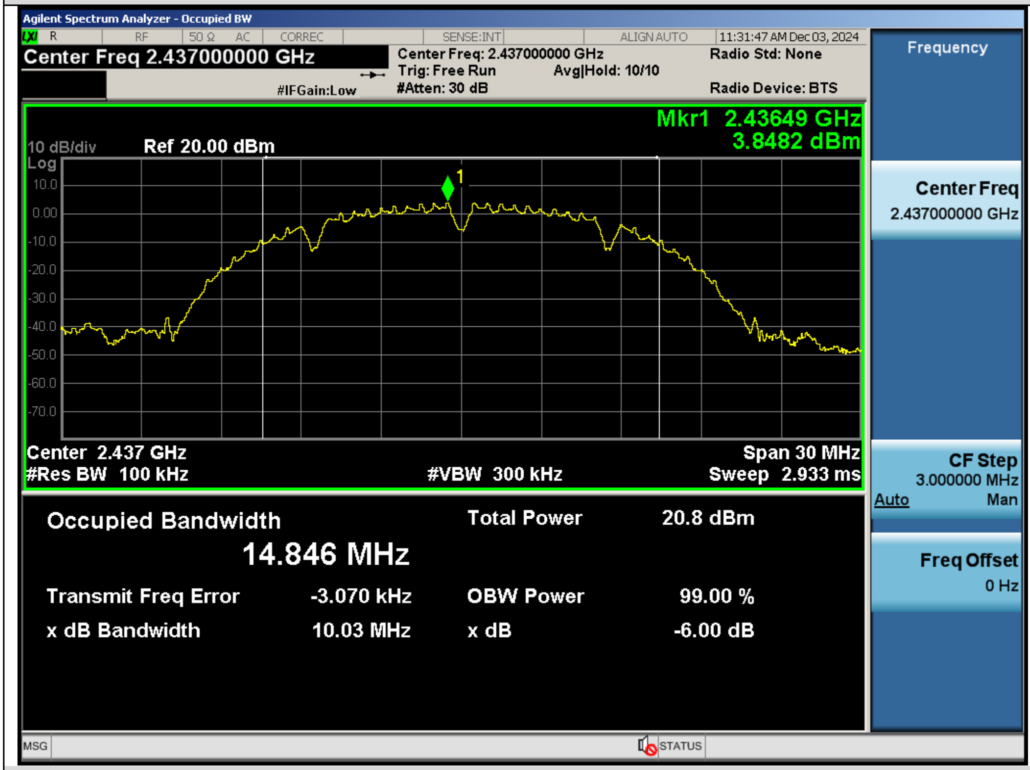


Test_Graph_802.11ax40_ANT1_2452_MCS0_OBW

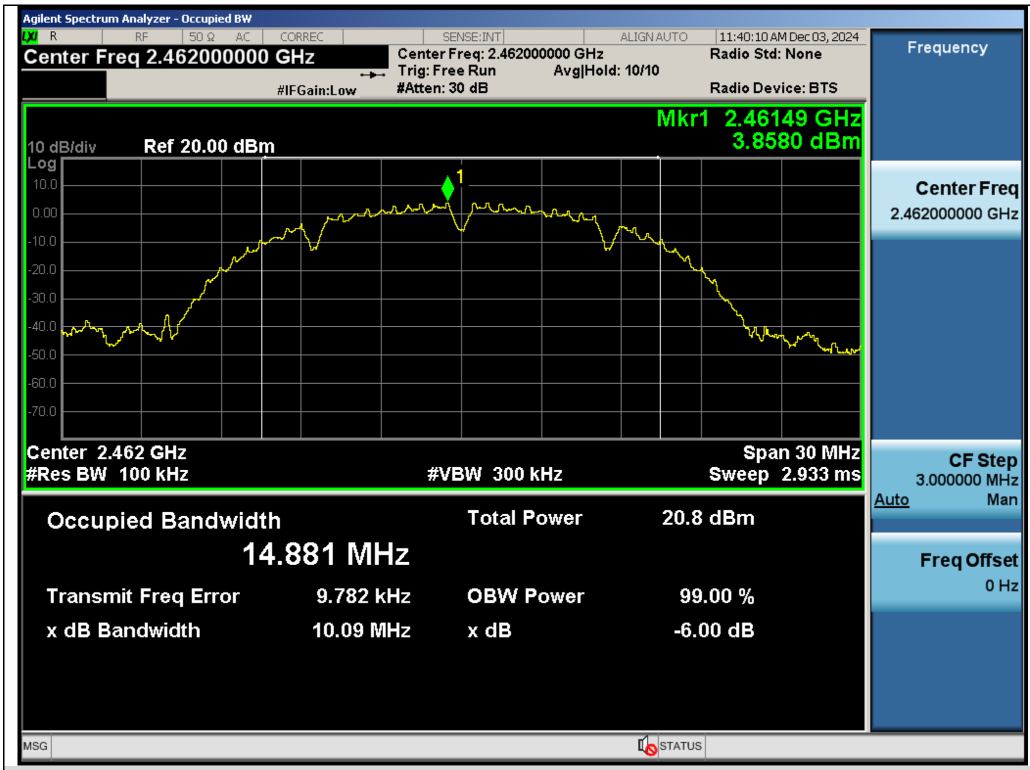
Test Graphs of DTS Bandwidth



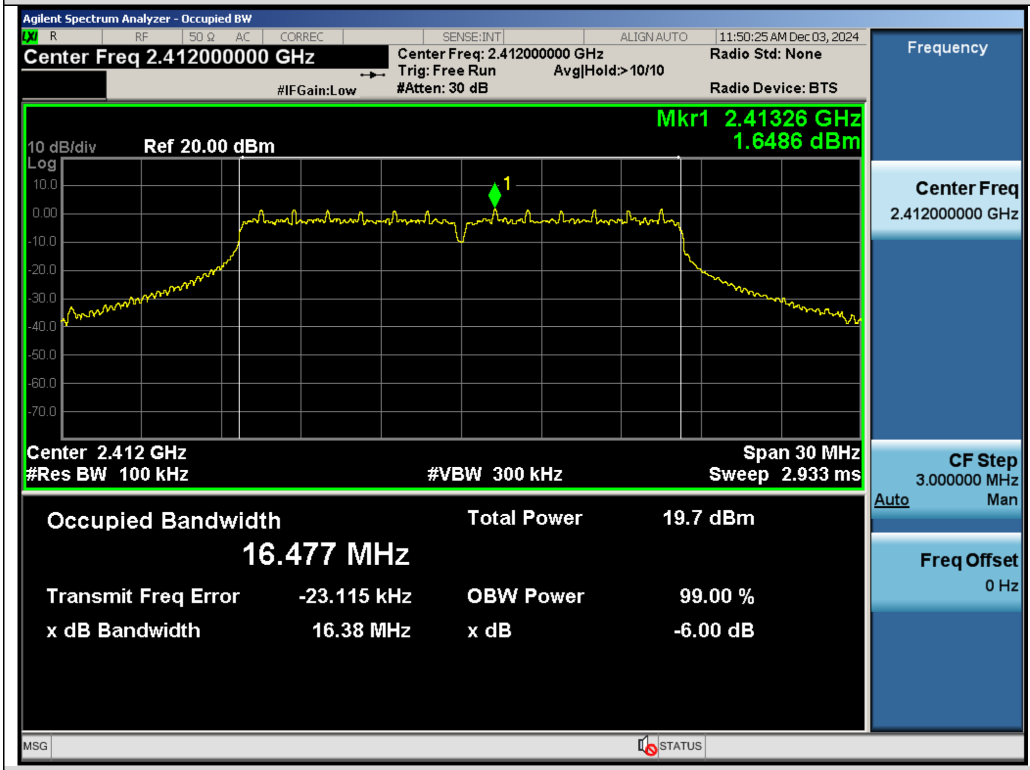
Test_Graph_802.11b_ANT1_2412_1Mbps_DTSBW



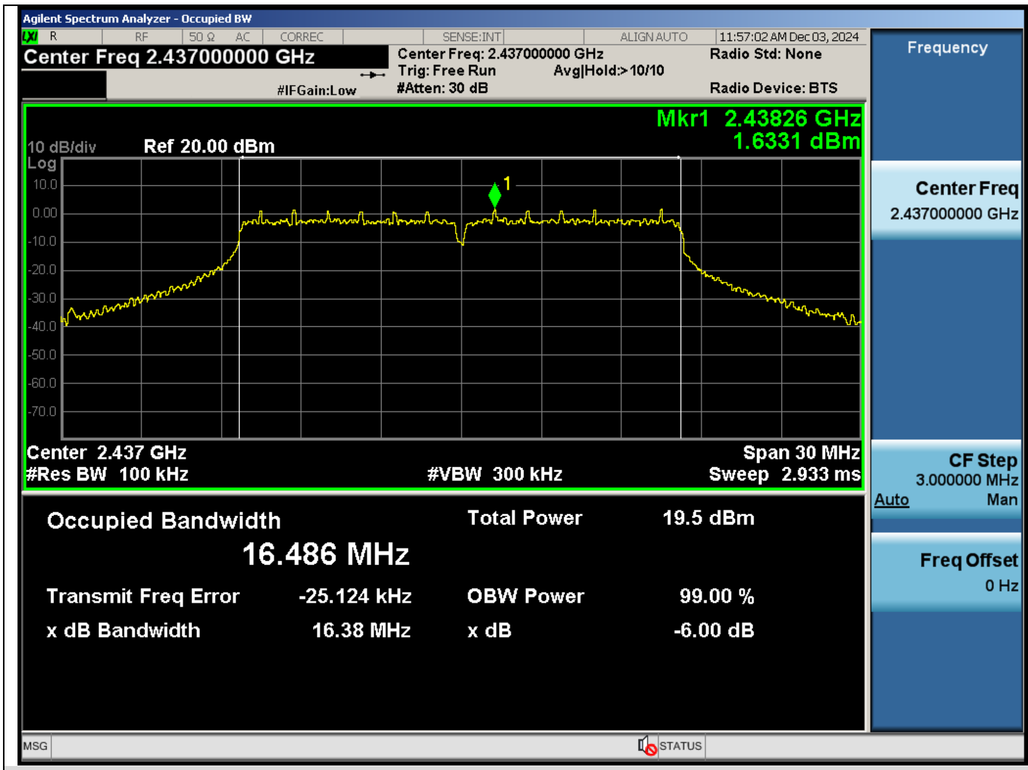
Test_Graph_802.11b_ANT1_2437_1Mbps_DTSBW



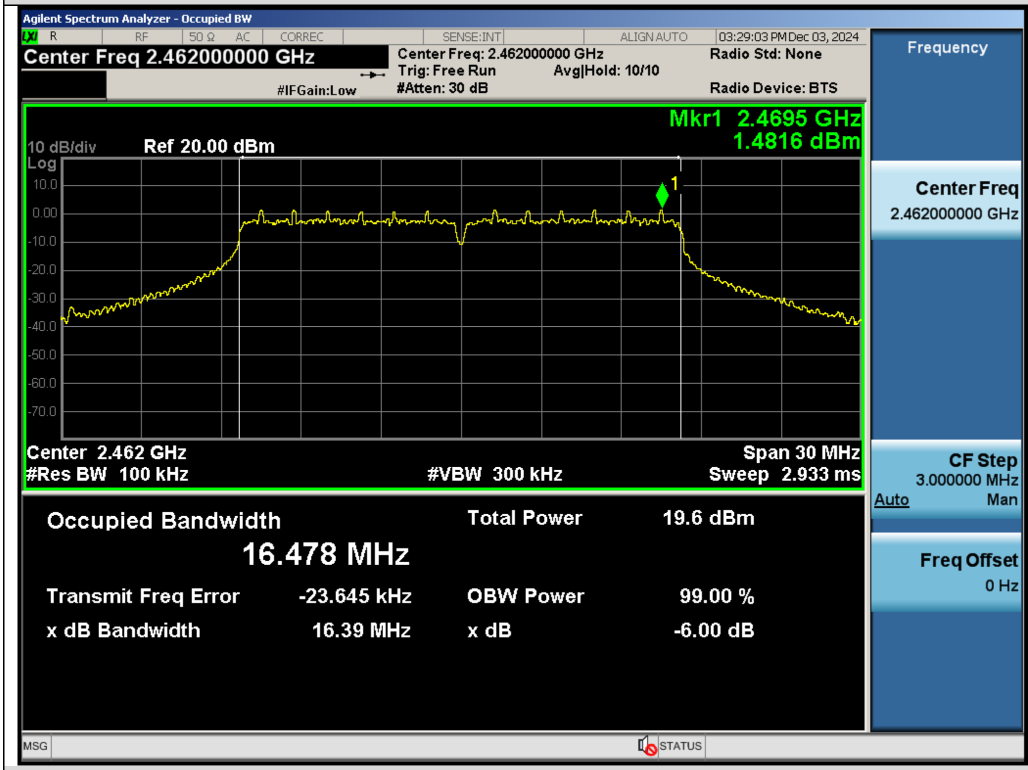
Test_Graph_802.11b_ANT1_2462_1Mbps_DTSBW



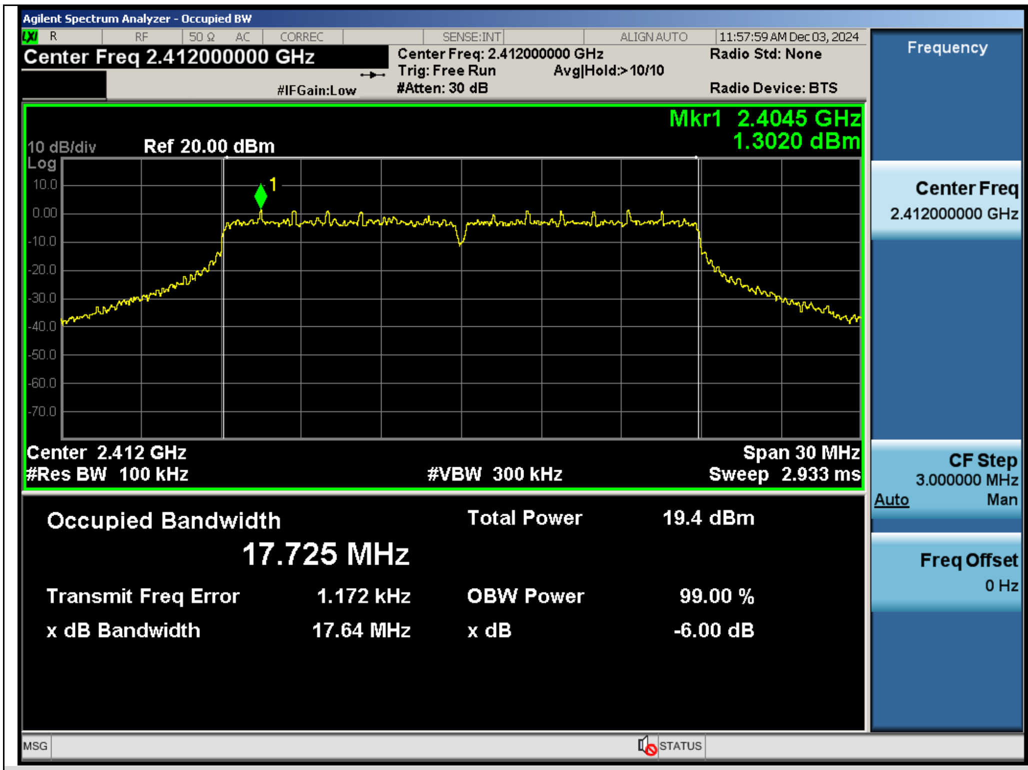
Test_Graph_802.11g_ANT1_2412_6Mbps_DTSBW



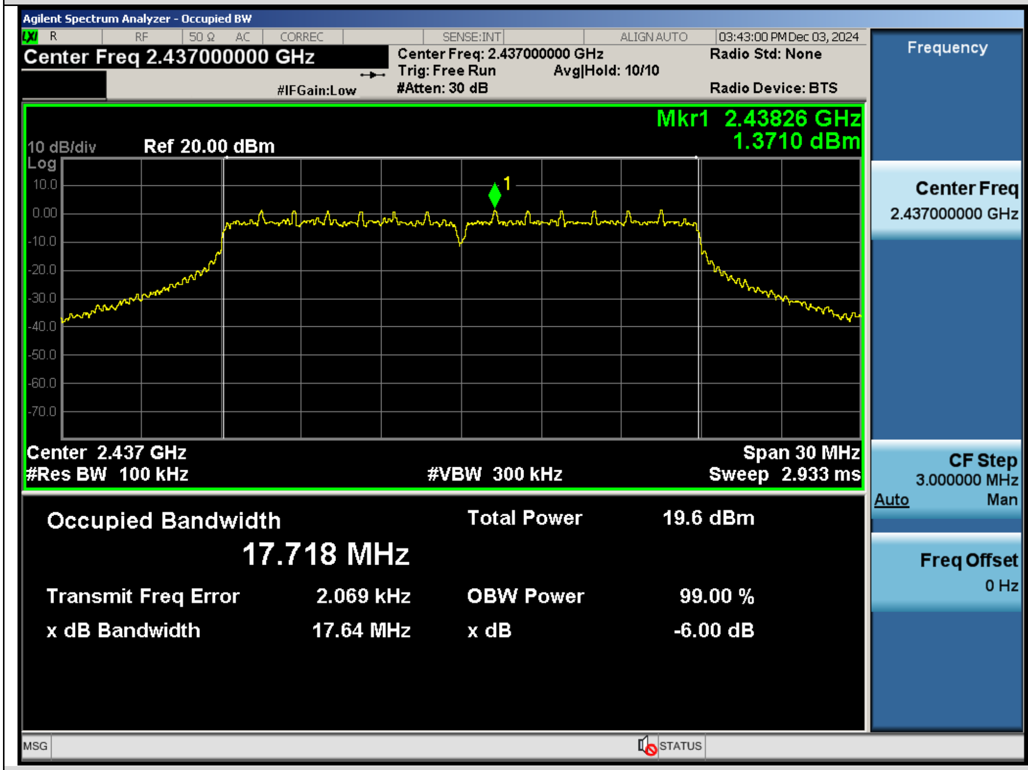
Test_Graph_802.11g_ANT1_2437_6Mbps_DTSBW



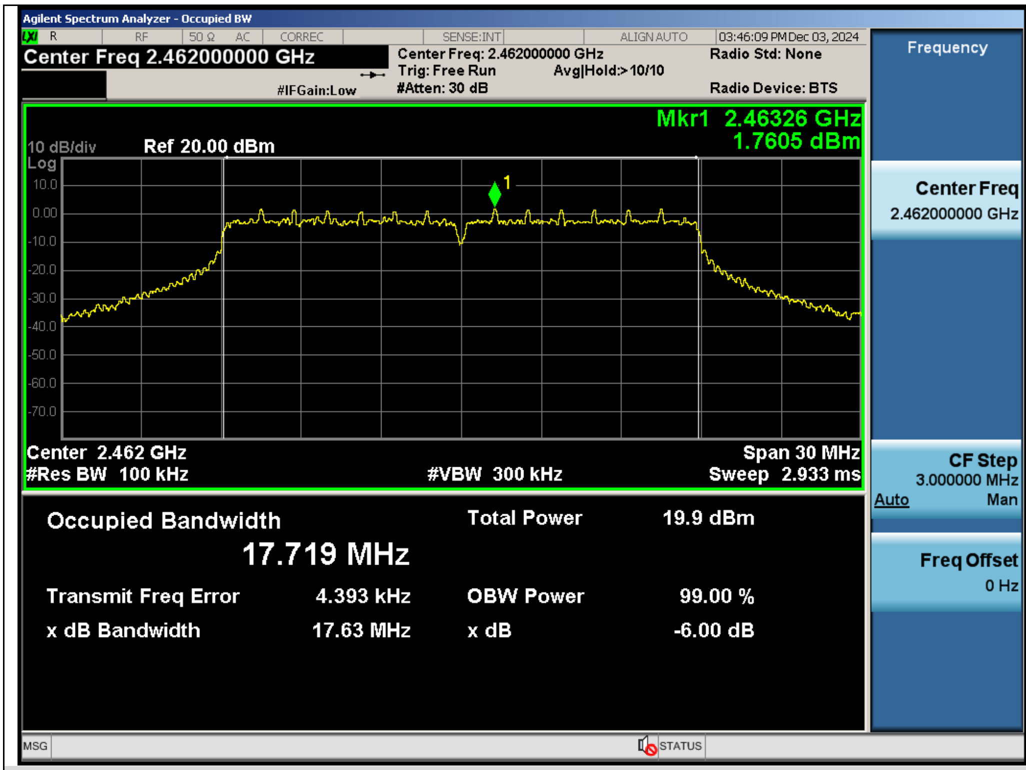
Test_Graph_802.11g_ANT1_2462_6Mbps_DTSBW



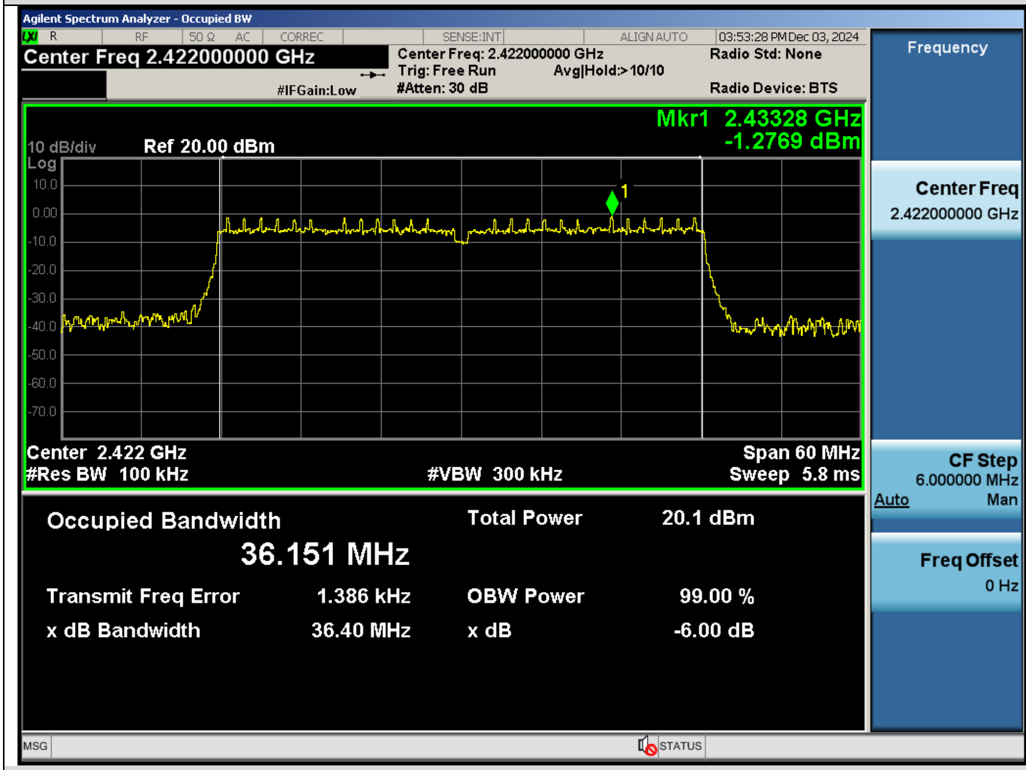
Test_Graph_802.11n20_ANT1_2412_MCS0_DTSBW



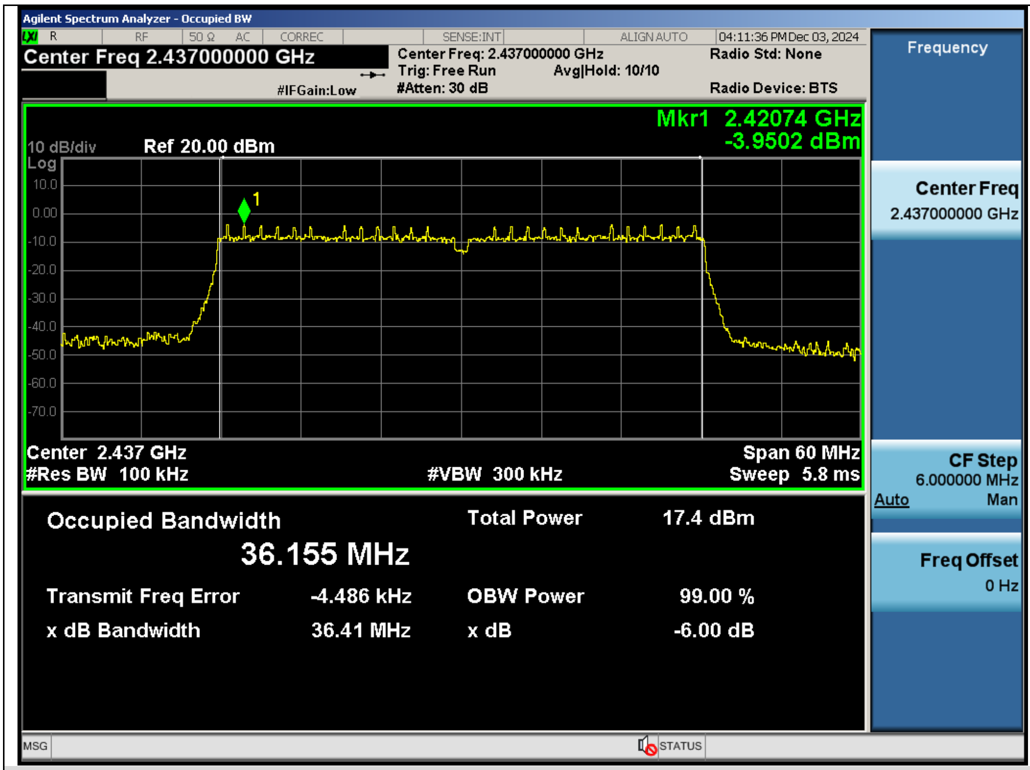
Test_Graph_802.11n20_ANT1_2437_MCS0_DTSBW



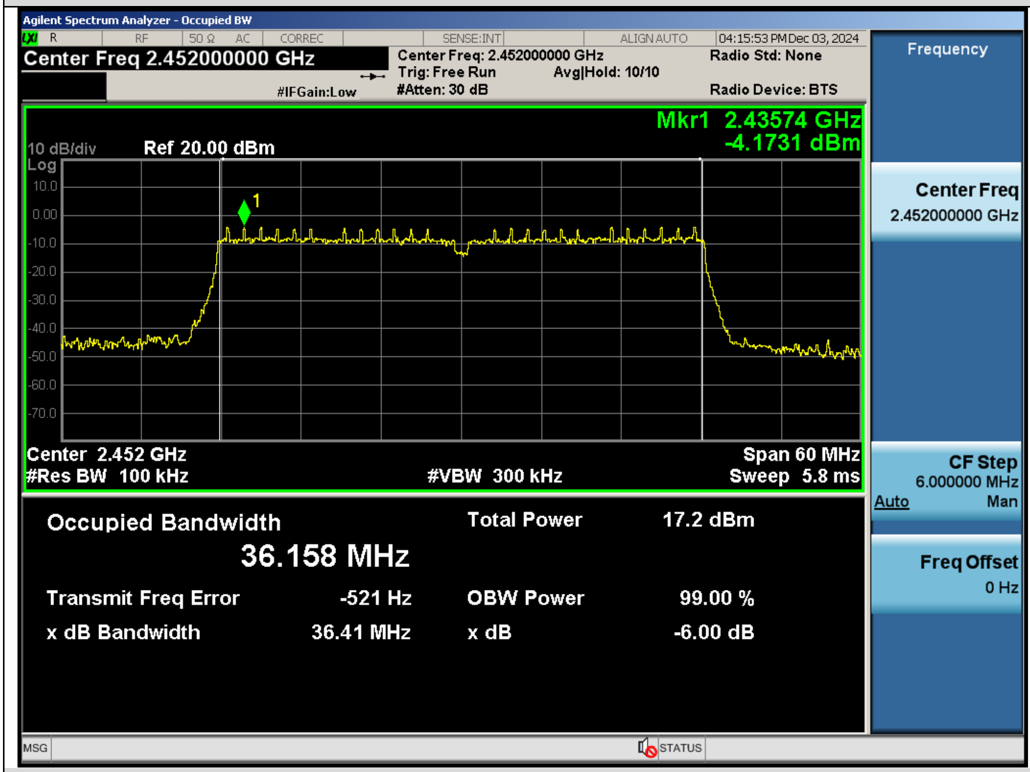
Test_Graph_802.11n20_ANT1_2462_MCS0_DTSBW



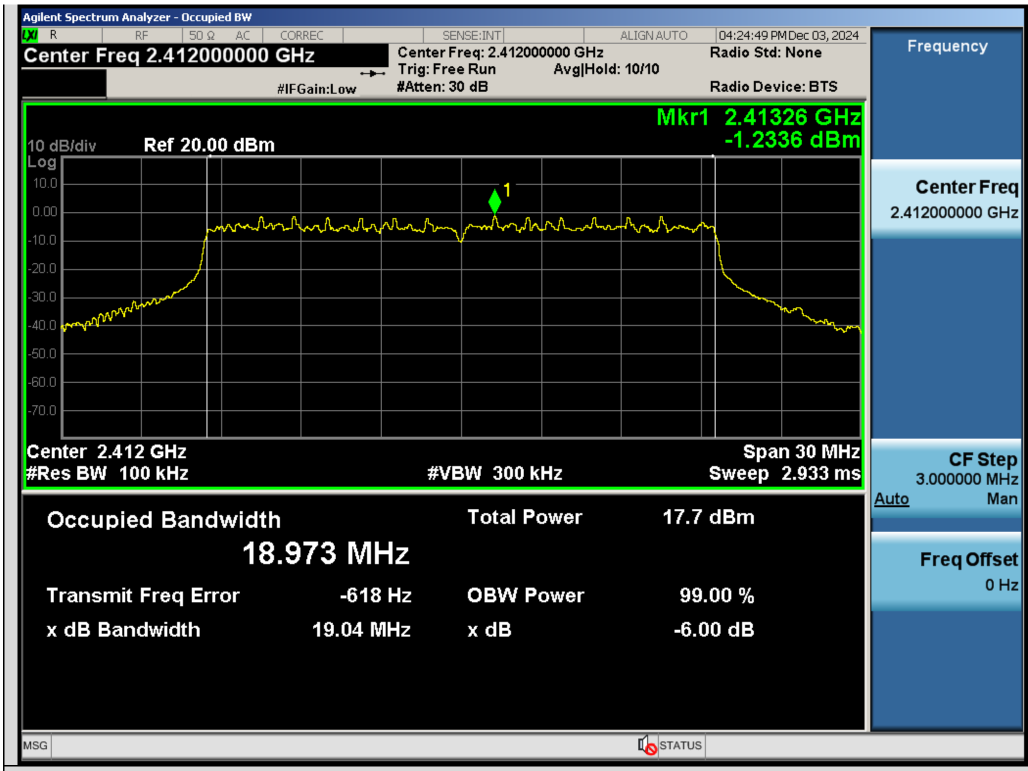
Test_Graph_802.11n40_ANT1_2422_MCS0_DTSBW



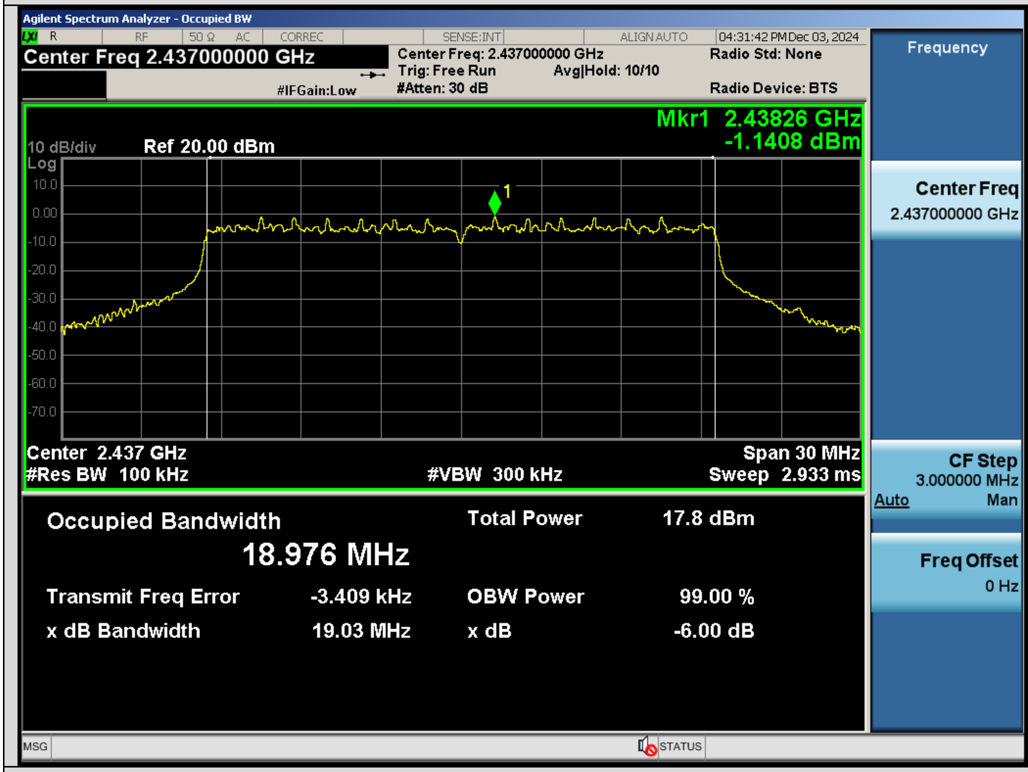
Test_Graph_802.11n40_ANT1_2437_MCS0_DTSBW



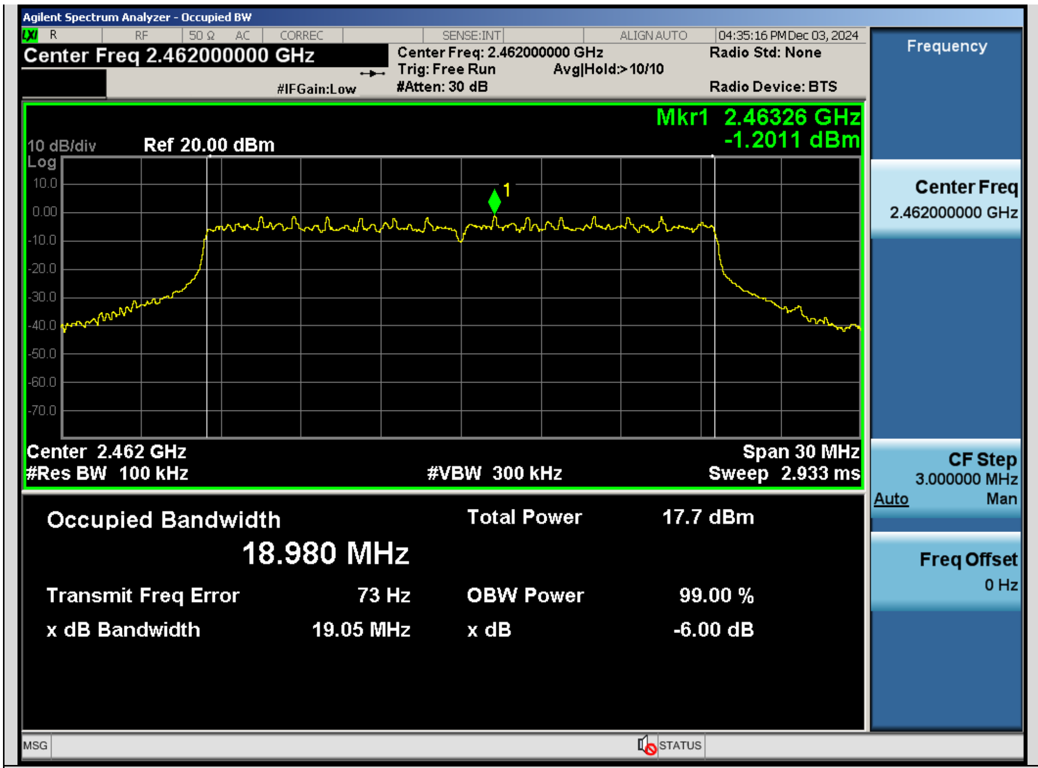
Test_Graph_802.11n40_ANT1_2452_MCS0_DTSBW



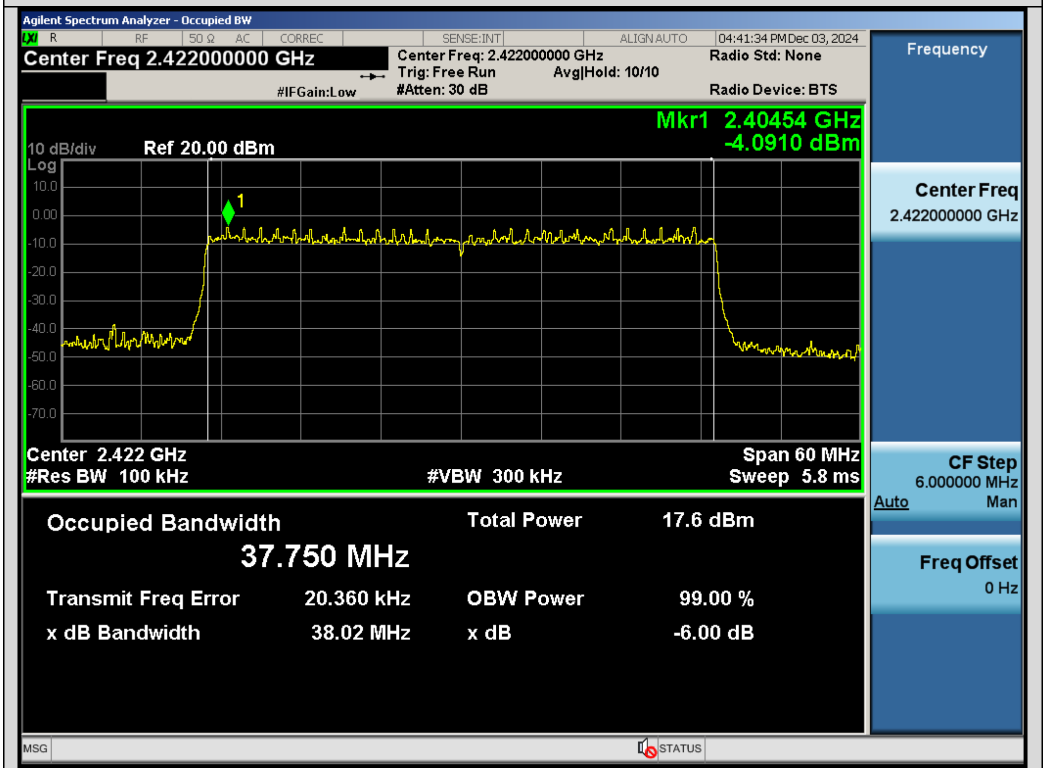
Test_Graph_802.11ax20_ANT1_2412_MCS0_DTSBW



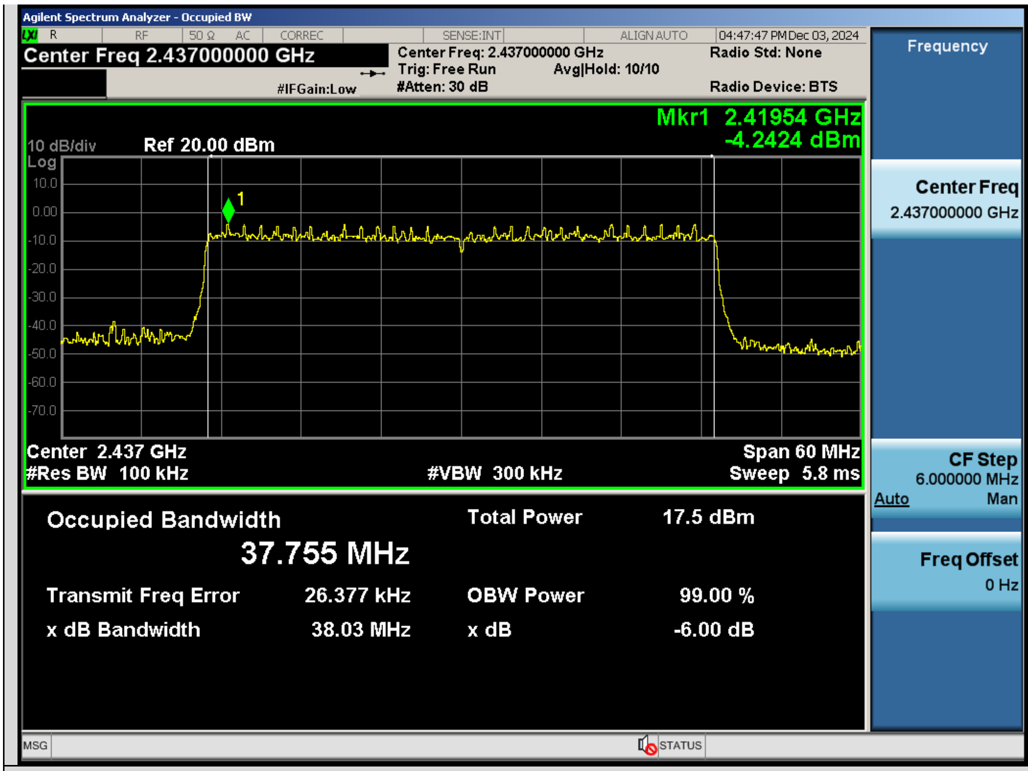
Test_Graph_802.11ax20_ANT1_2437_MCS0_DTSBW



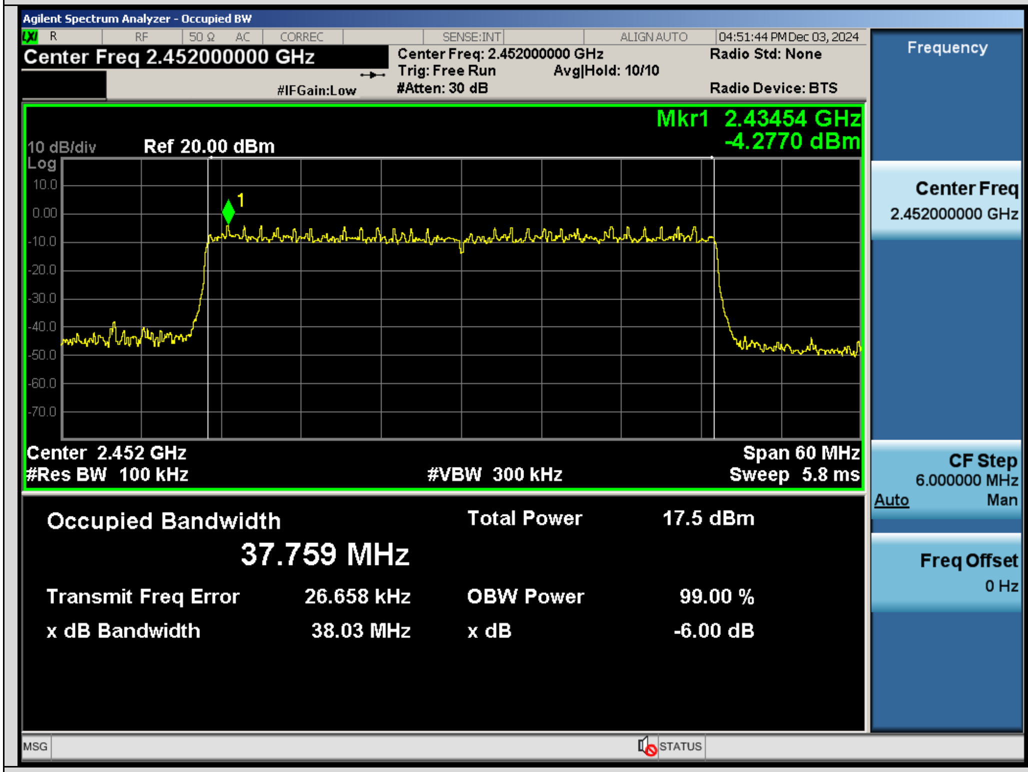
Test_Graph_802.11ax20_ANT1_2462_MCS0_DTSBW



Test_Graph_802.11ax40_ANT1_2422_MCS0_DTSBW



Test_Graph_802.11ax40_ANT1_2437_MCS0_DTSBW



Test_Graph_802.11ax40_ANT1_2452_MCS0_DTSBW

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

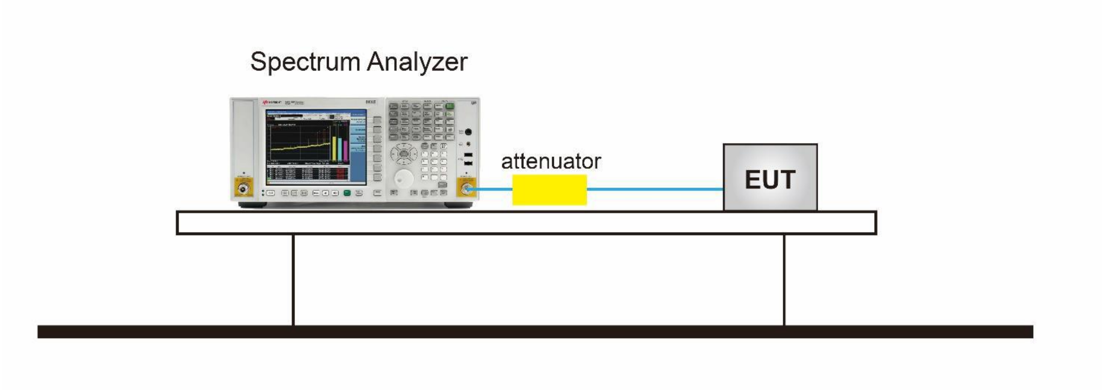
☒For Peak power spectral density test:

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 ≥ [3 × RBW].
5. Set the Span ≥ [1.5 × 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*log(3kHz/20kHz) = -8.23 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 kHz ≤ RBW ≤ 100 kHz.
5. Set VBW≥[3×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*log(3kHz/20kHz) = -8.23 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 dB if the duty cycle is 25%.
12. Record the test results in the report.

9.3 Measurement Setup (Block Diagram of Configuration)

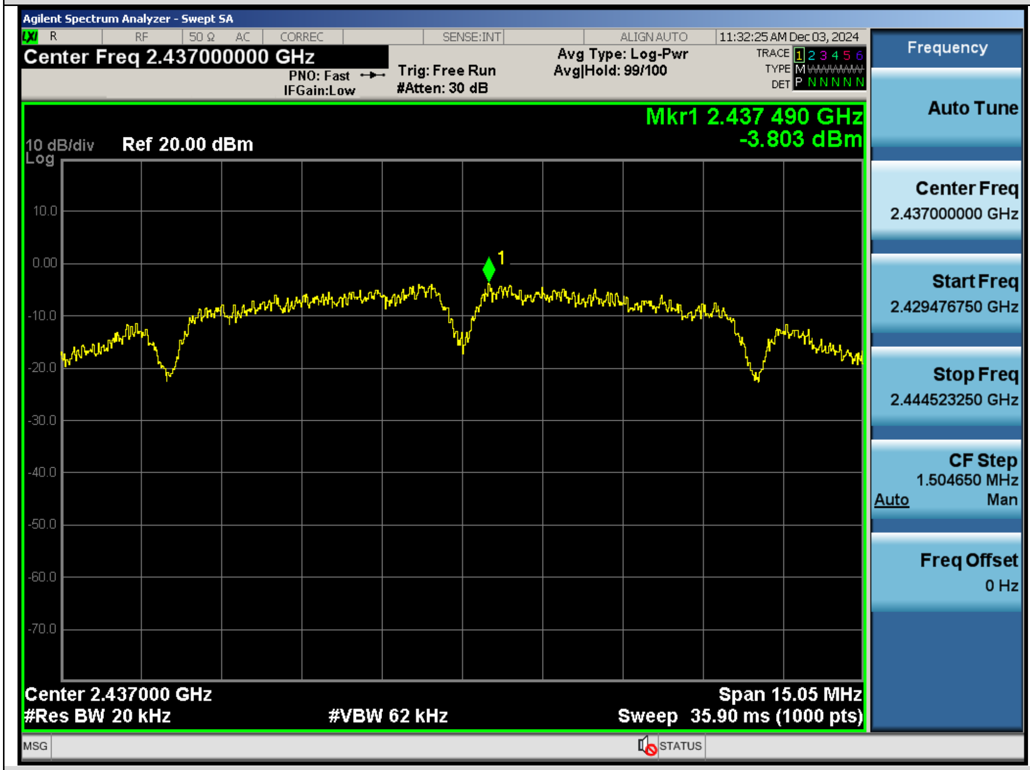


9.4 Measurement Result

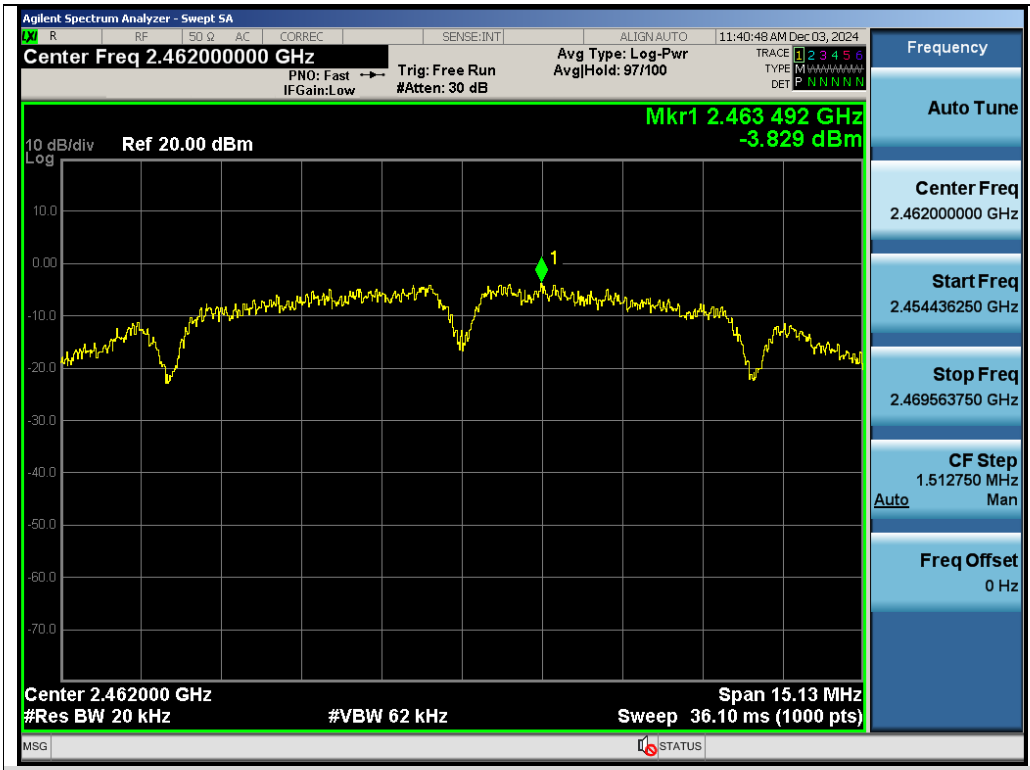
Test Data of Conducted Output Power Spectral Density					
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/20kHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	2412	-3.705	-11.944	≤8	Pass
	2437	-3.803	-12.042	≤8	Pass
	2462	-3.829	-12.068	≤8	Pass
802.11g	2412	-4.964	-13.203	≤8	Pass
	2437	-5.176	-13.415	≤8	Pass
	2462	-4.845	-13.084	≤8	Pass
802.11n20	2412	-4.946	-13.185	≤8	Pass
	2437	-4.776	-13.015	≤8	Pass
	2462	-4.733	-12.972	≤8	Pass
802.11n40	2422	-9.822	-18.061	≤8	Pass
	2437	-9.725	-17.964	≤8	Pass
	2452	-10.152	-18.391	≤8	Pass
802.11ax20	2412	-7.510	-15.749	≤8	Pass
	2437	-7.977	-16.216	≤8	Pass
	2462	-7.781	-16.02	≤8	Pass
802.11ax40	2422	-9.245	-17.484	≤8	Pass
	2437	-9.418	-17.657	≤8	Pass
	2452	-10.333	-18.572	≤8	Pass

Test Graphs of Conducted Output Power Spectral Density

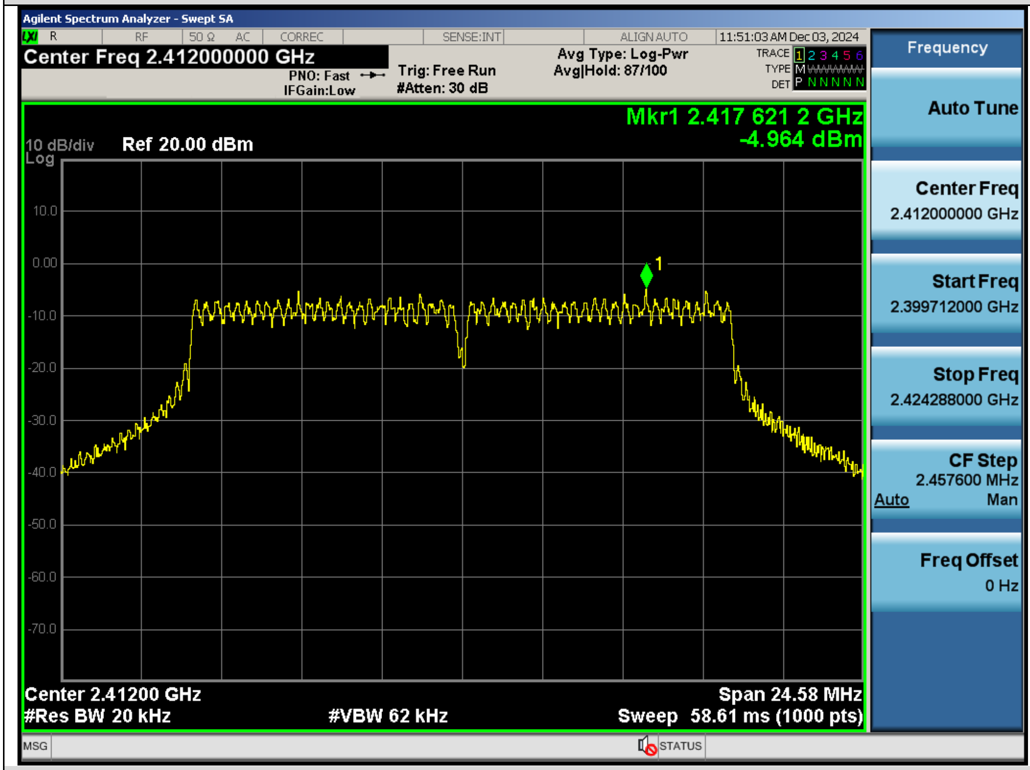
Test_Graph_802.11b_ANT1_2412_1Mbps_PSD



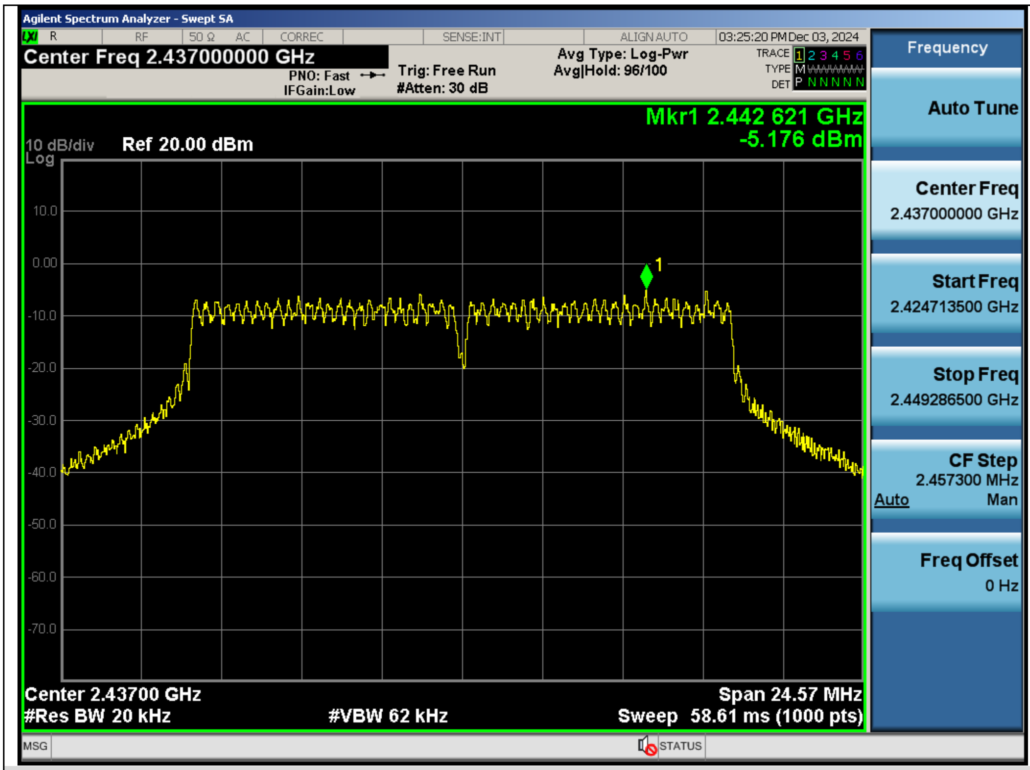
Test_Graph_802.11b_ANT1_2437_1Mbps_PSD



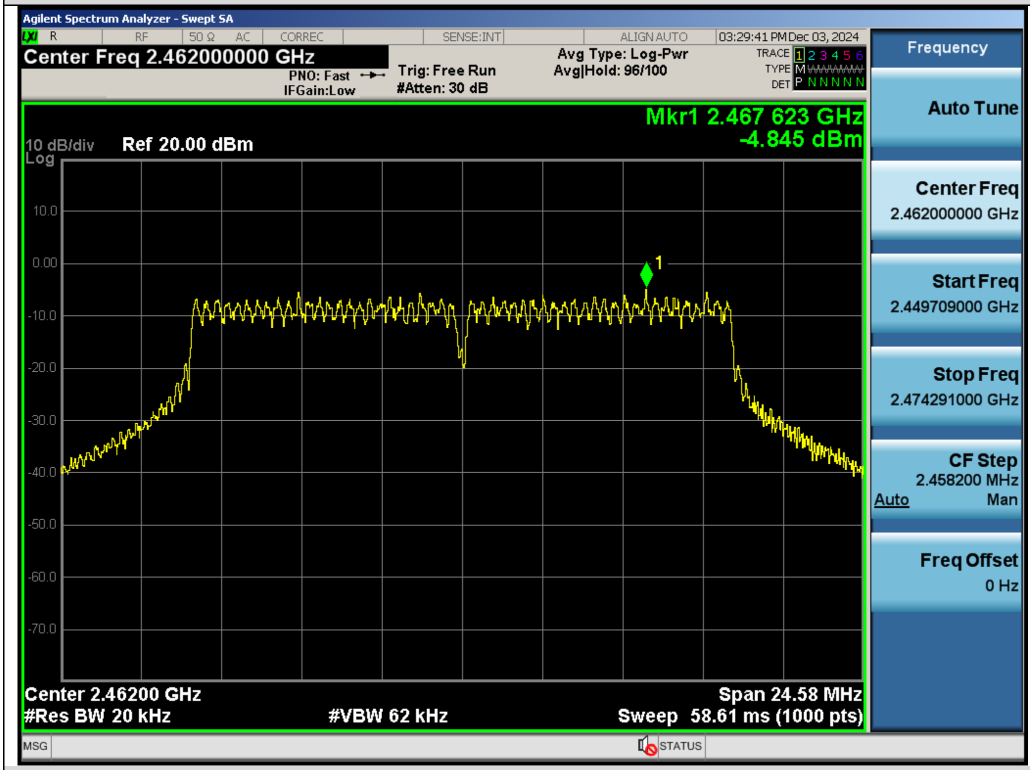
Test_Graph_802.11b_ANT1_2462_1Mbps_PSD



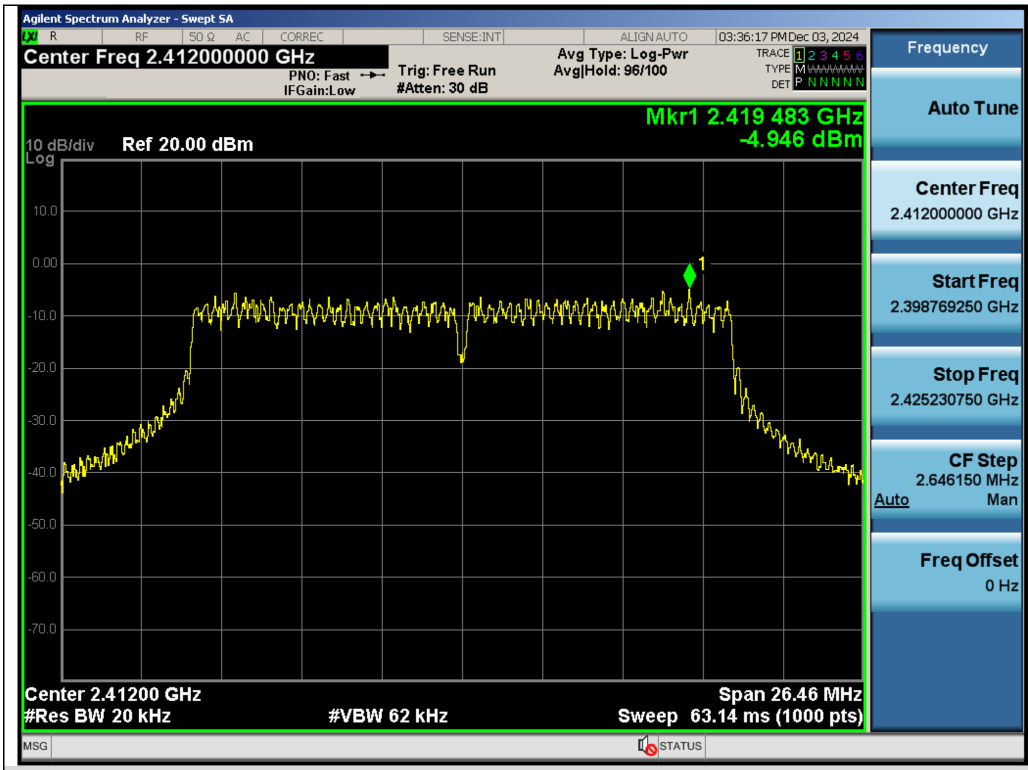
Test_Graph_802.11g_ANT1_2412_6Mbps_PSD



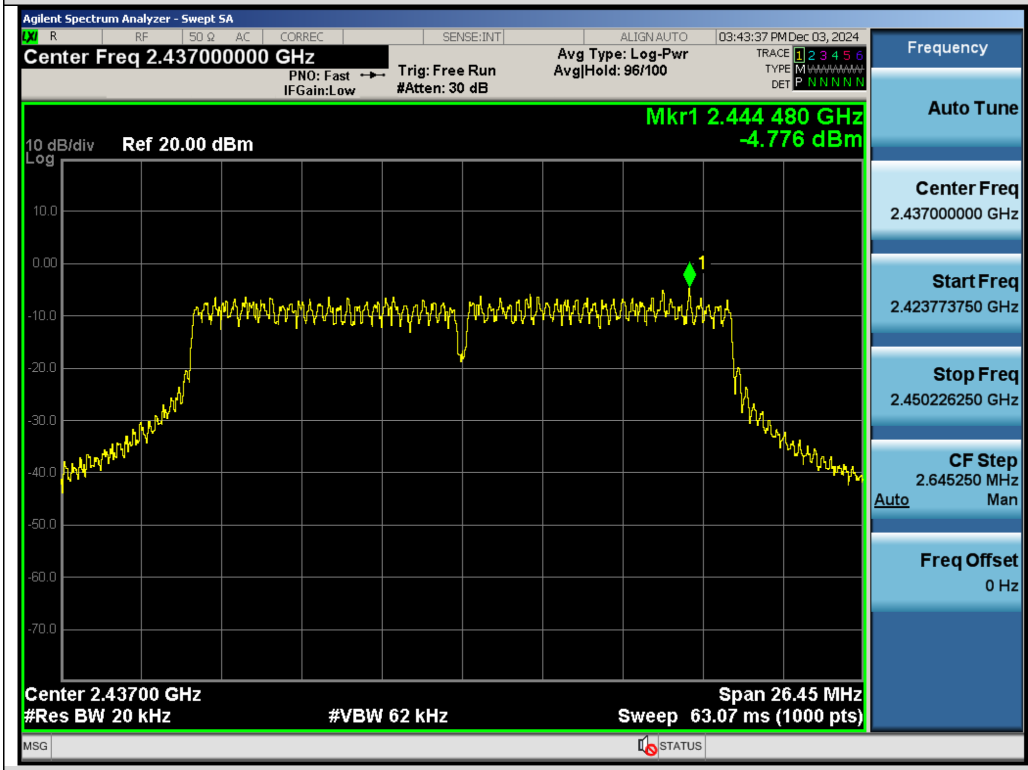
Test_Graph_802.11g_ANT1_2437_6Mbps_PSD



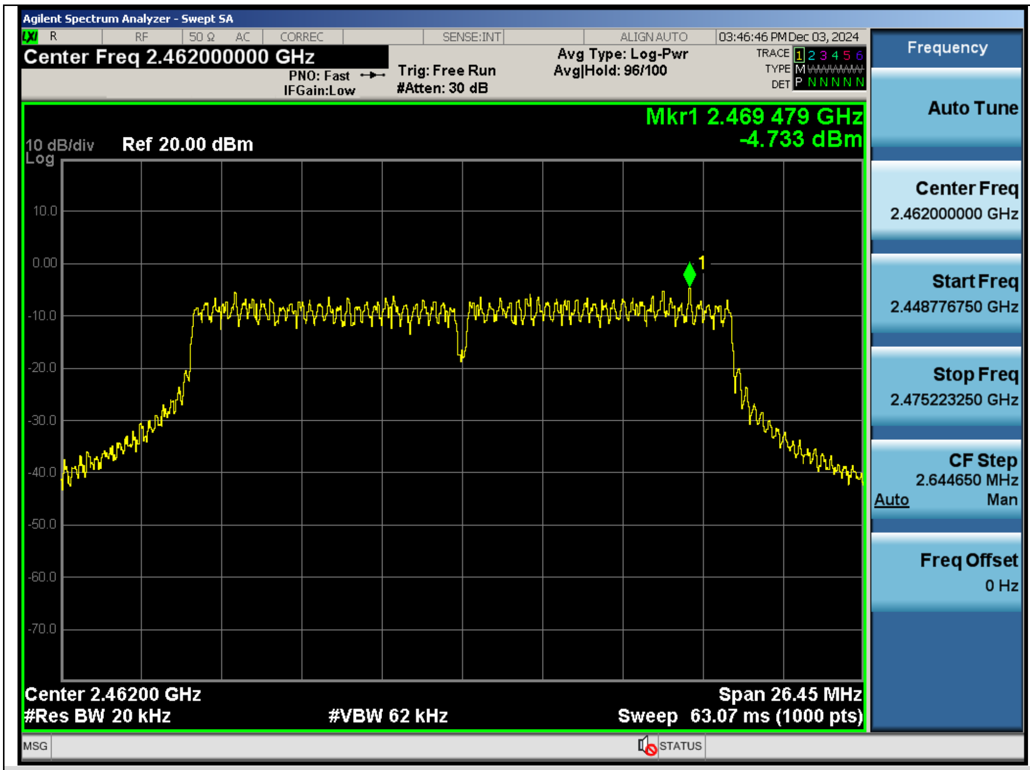
Test_Graph_802.11g_ANT1_2462_6Mbps_PSD



Test_Graph_802.11n20_ANT1_2412_MCS0_PSD



Test_Graph_802.11n20_ANT1_2437_MCS0_PSD



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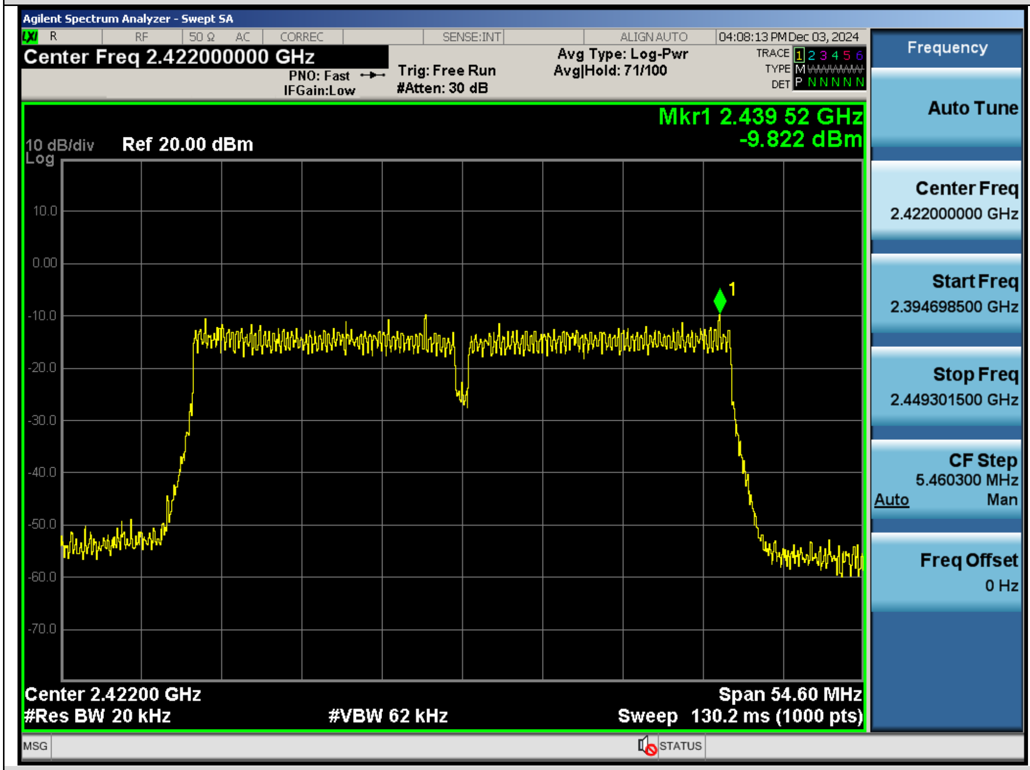

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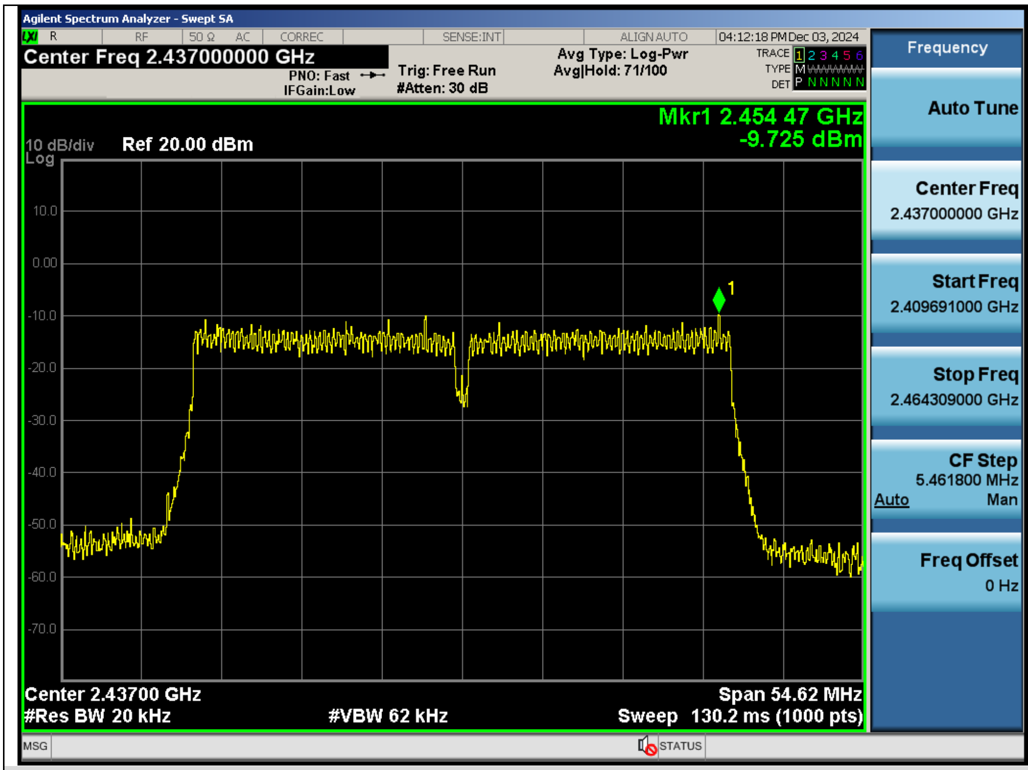

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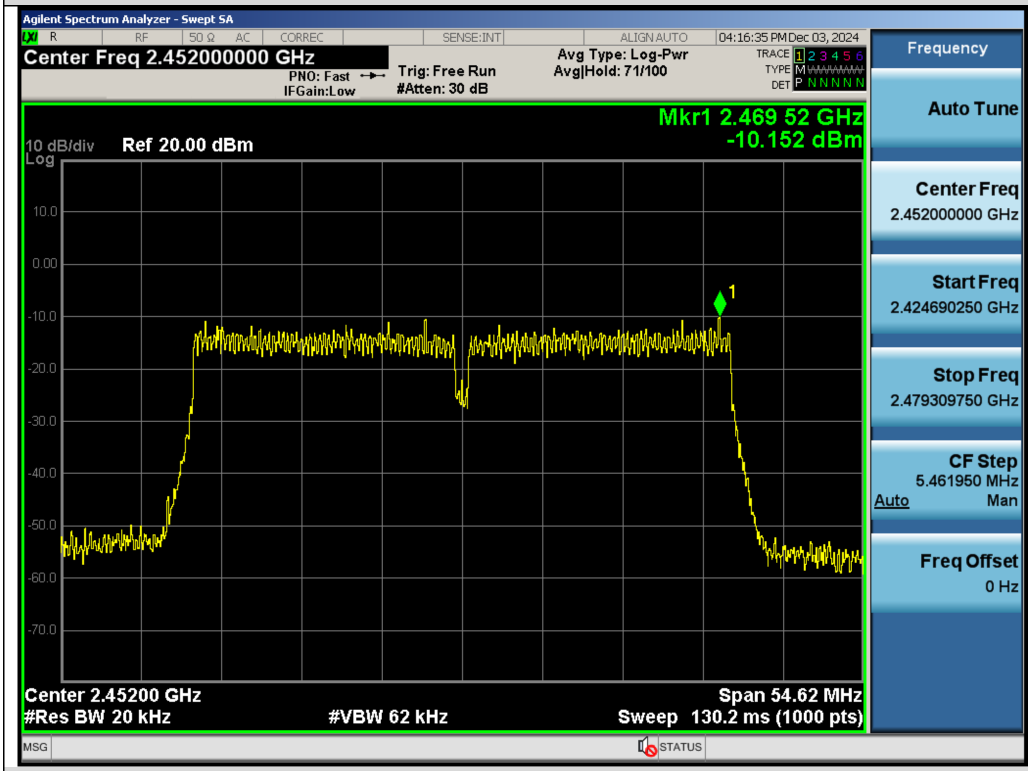

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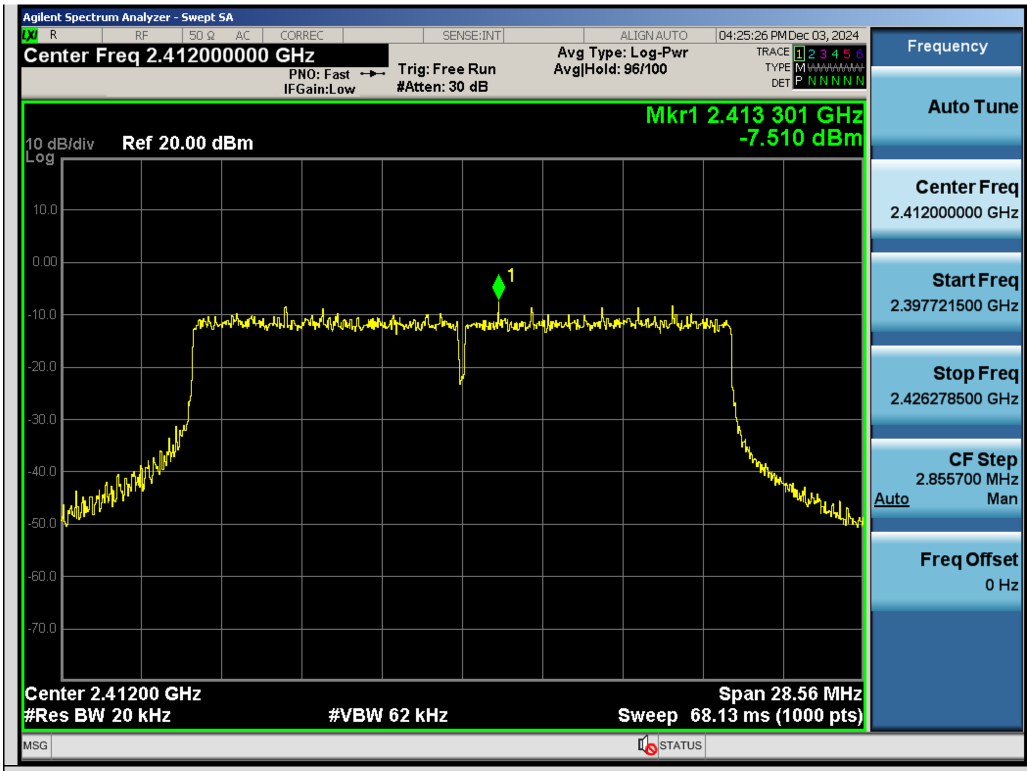

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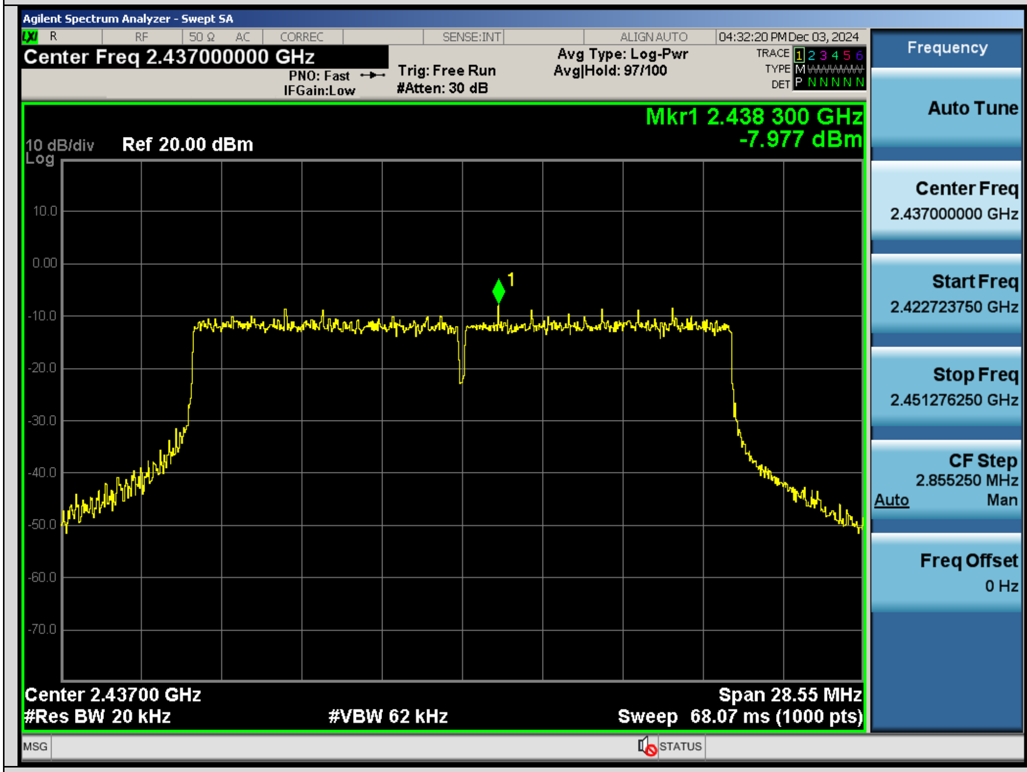

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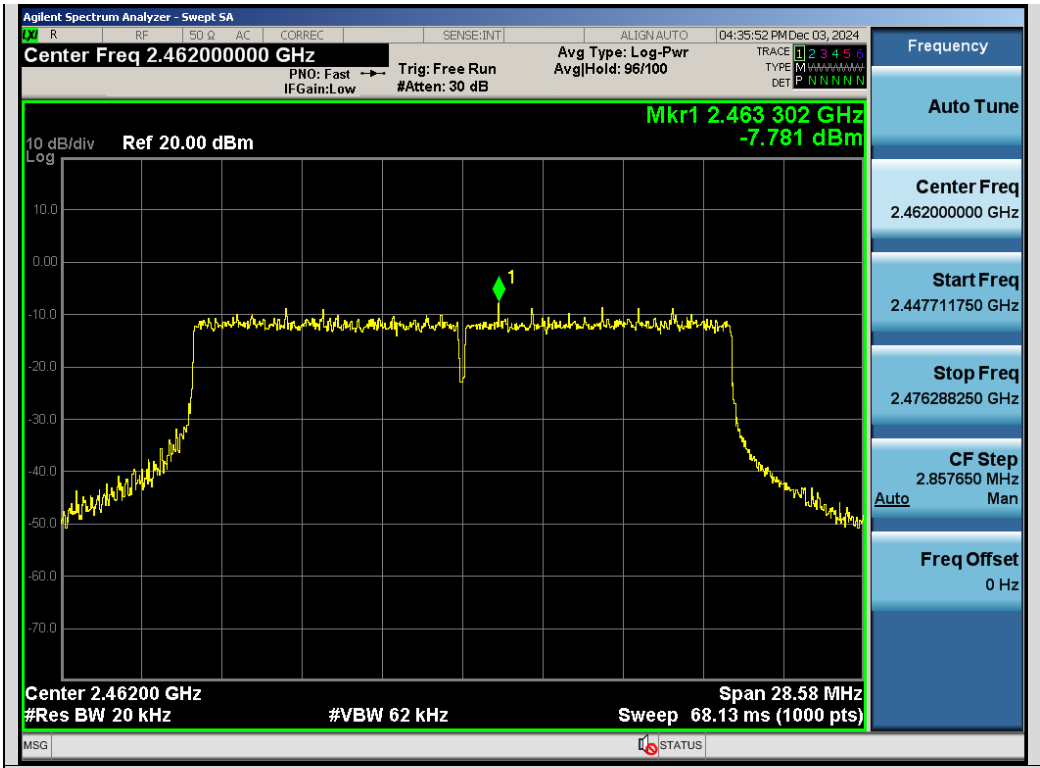

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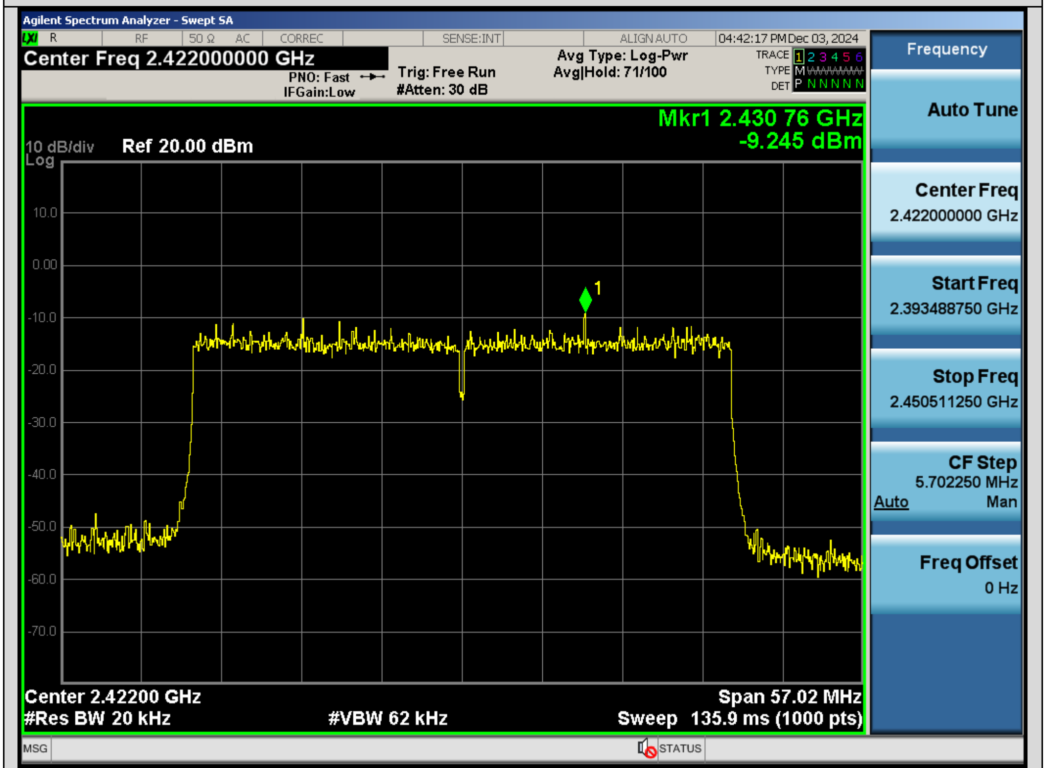

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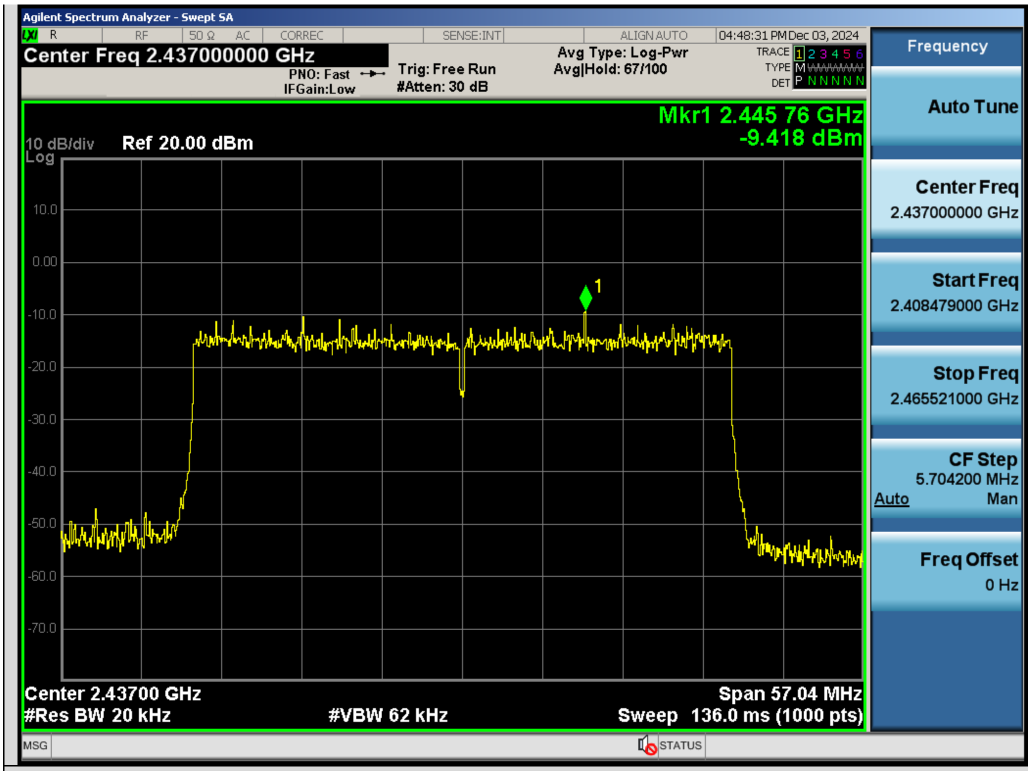

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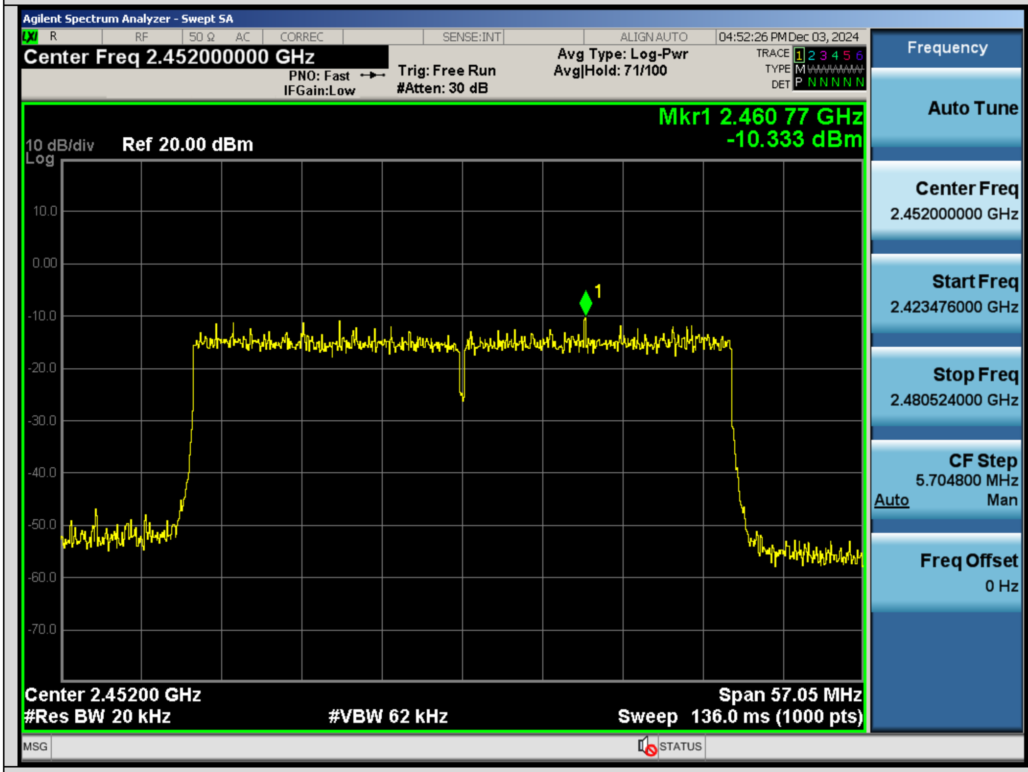


Test_Graph_802.11ax40_ANT1_2452_MCS0_PSD

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 in 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.

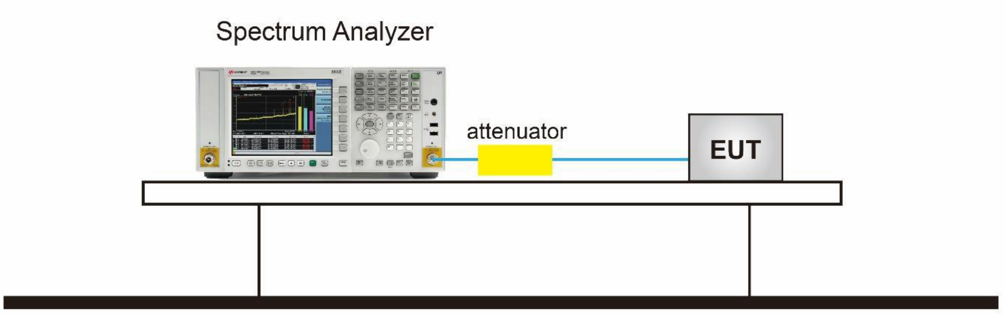
10.2 Measurement Procedure

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 ≥ 1.5 times the DTS bandwidth.
  3. Set the RBW = 100 kHz.
  4. Set the VBW ≥ 3 x 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 ≥ 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.

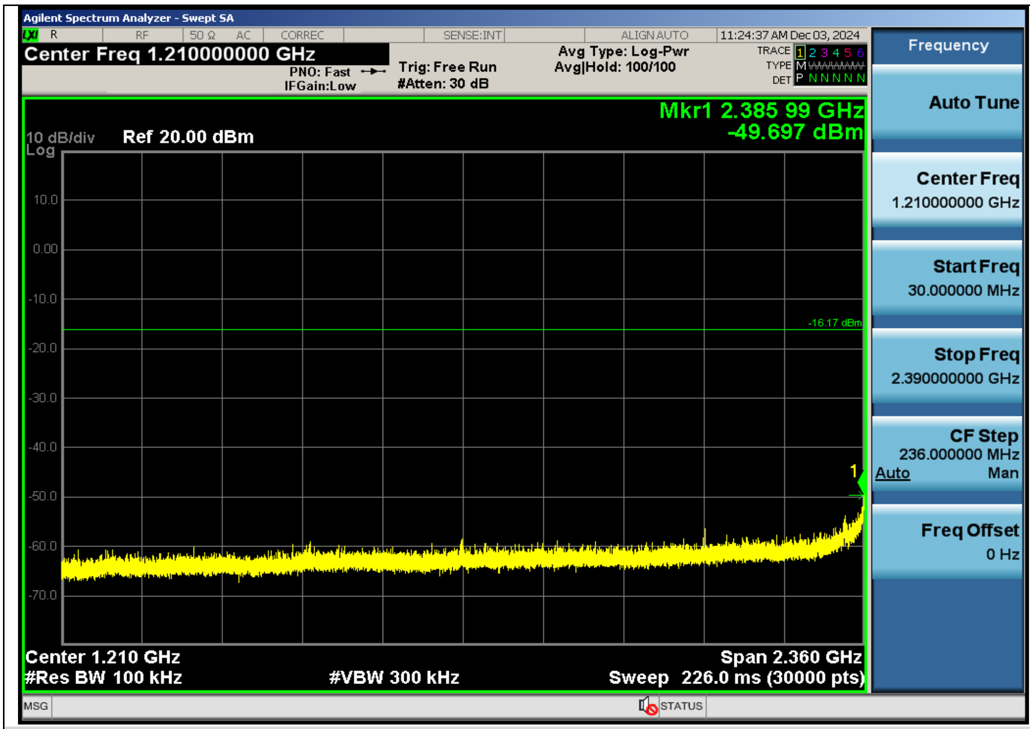
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

10.3 Measurement Setup (Block Diagram of Configuration)

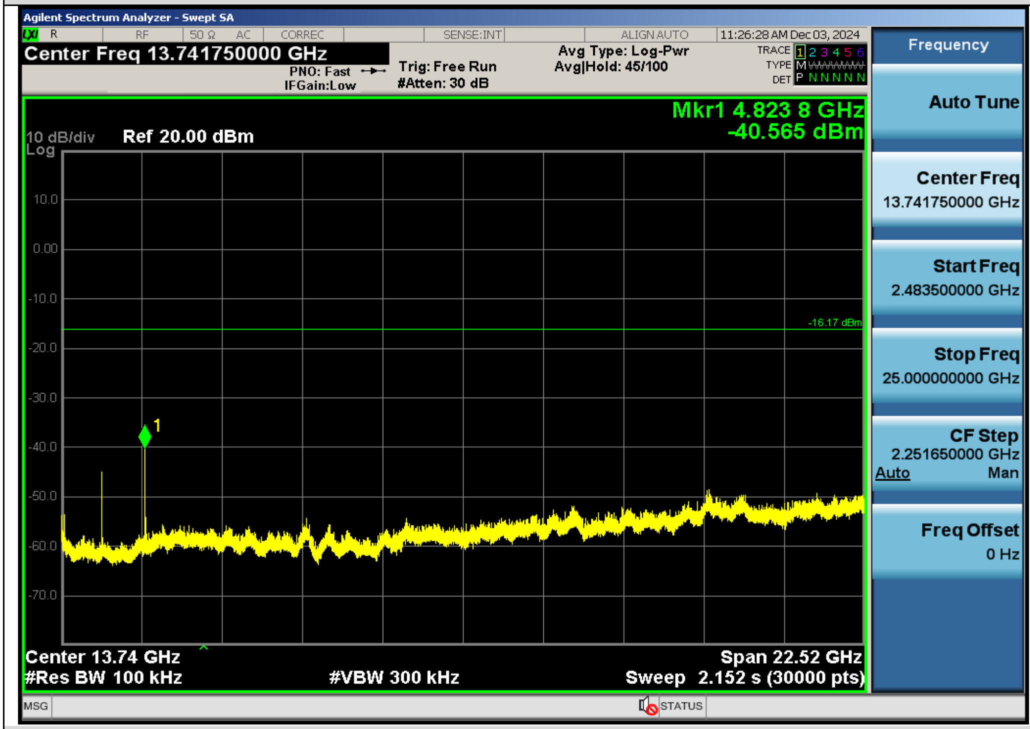


10.4 Measurement Result

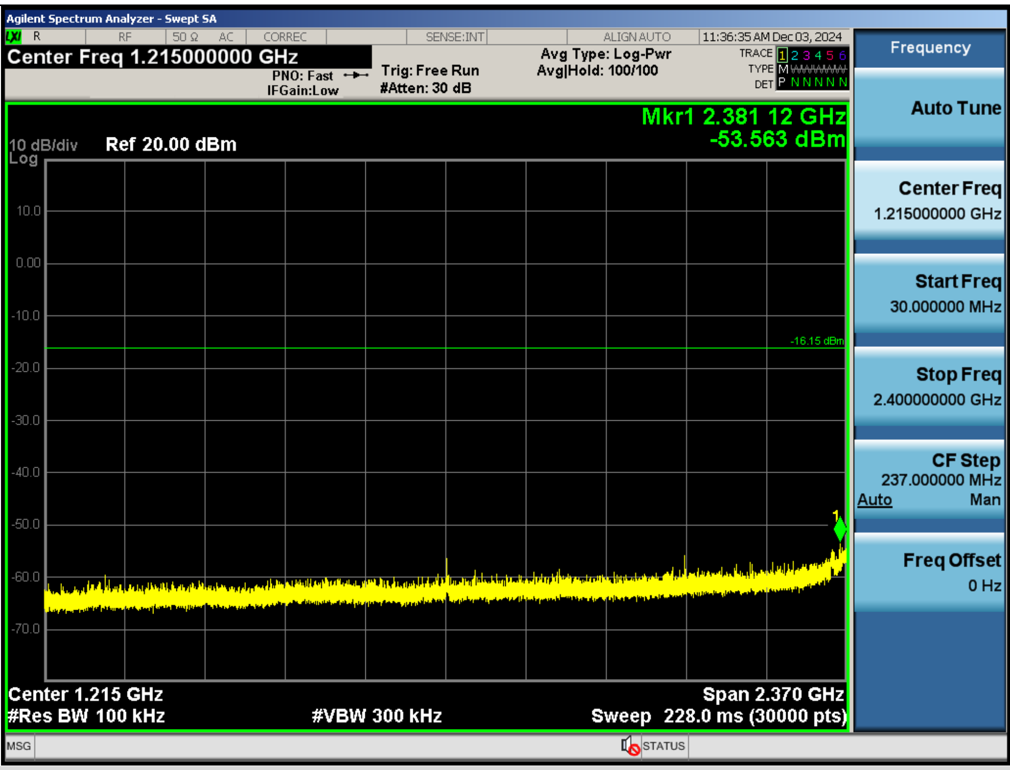
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



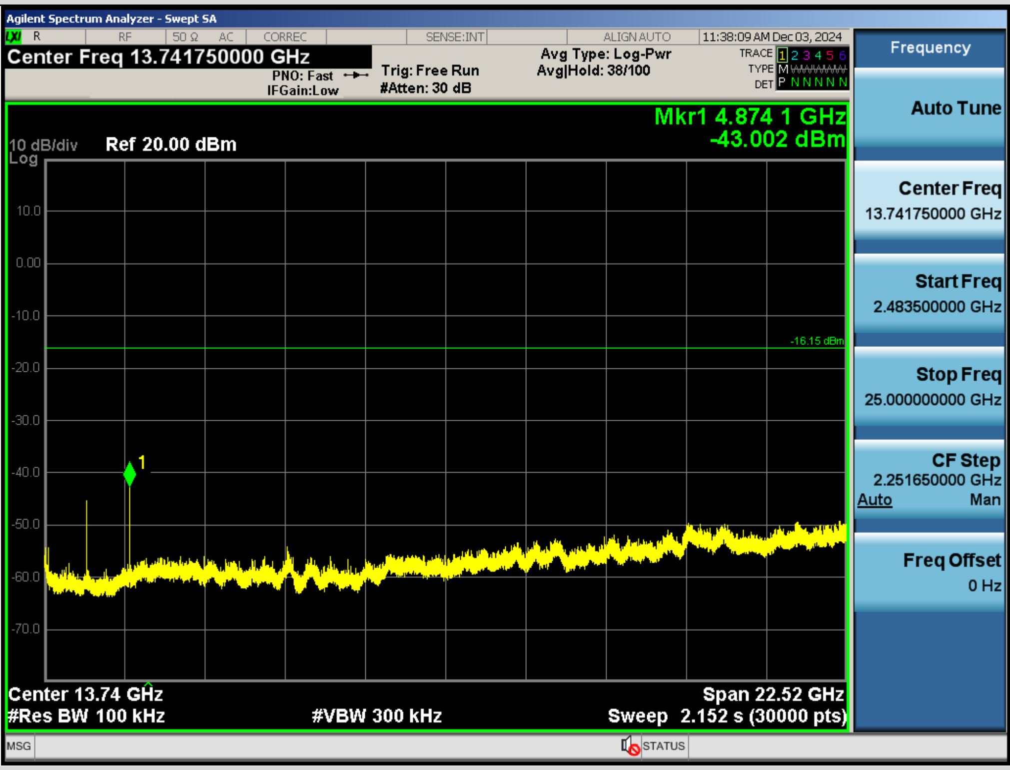
Test_Graph_802.11b_ANT1_2412_1Mbps_Lower Band Emissions



Test_Graph_802.11b_ANT1_2412_1Mbps_Higher Band Emissions



Test_Graph_802.11b_ANT1_2437_1Mbps_Lower Band Emissions



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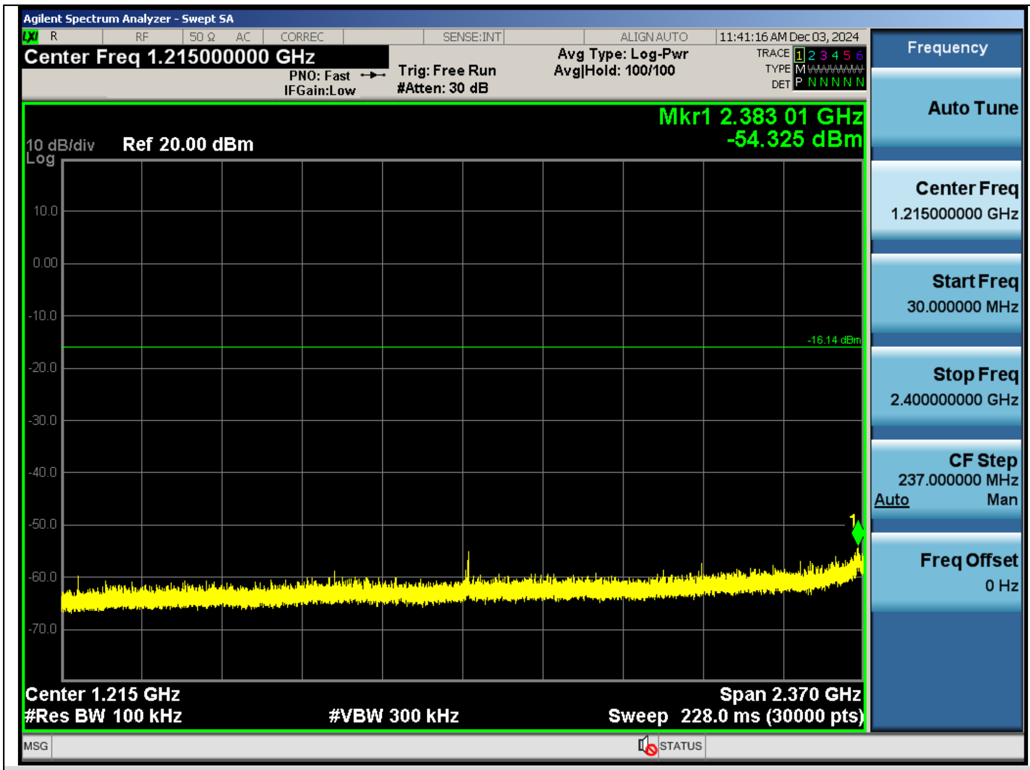
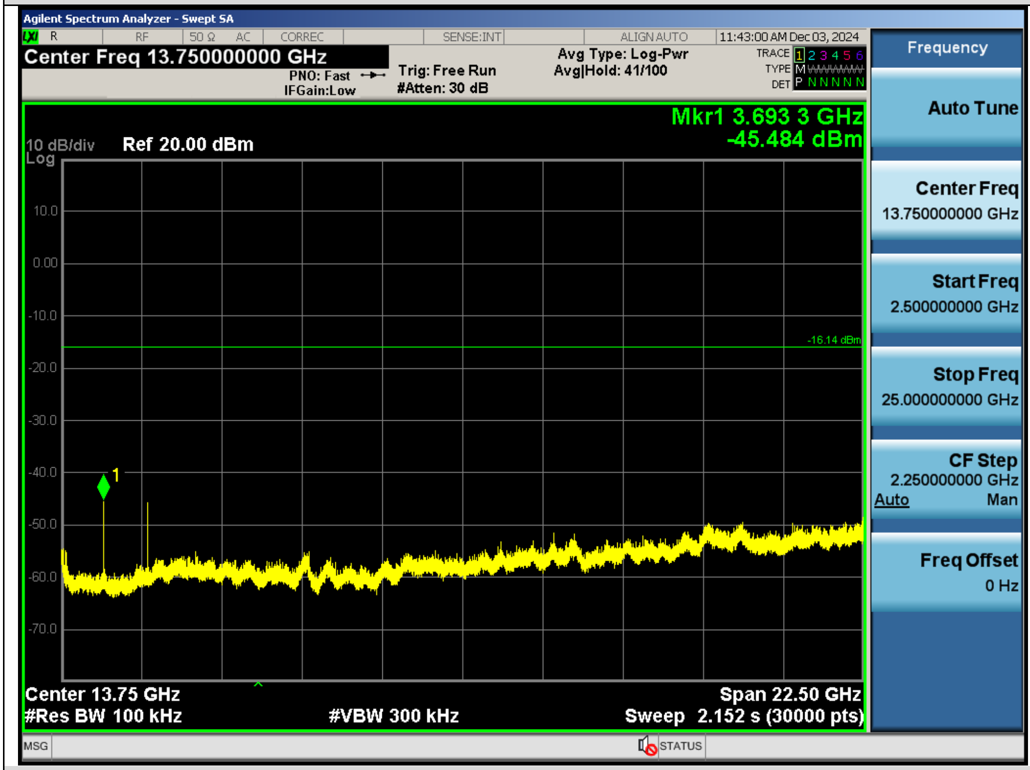
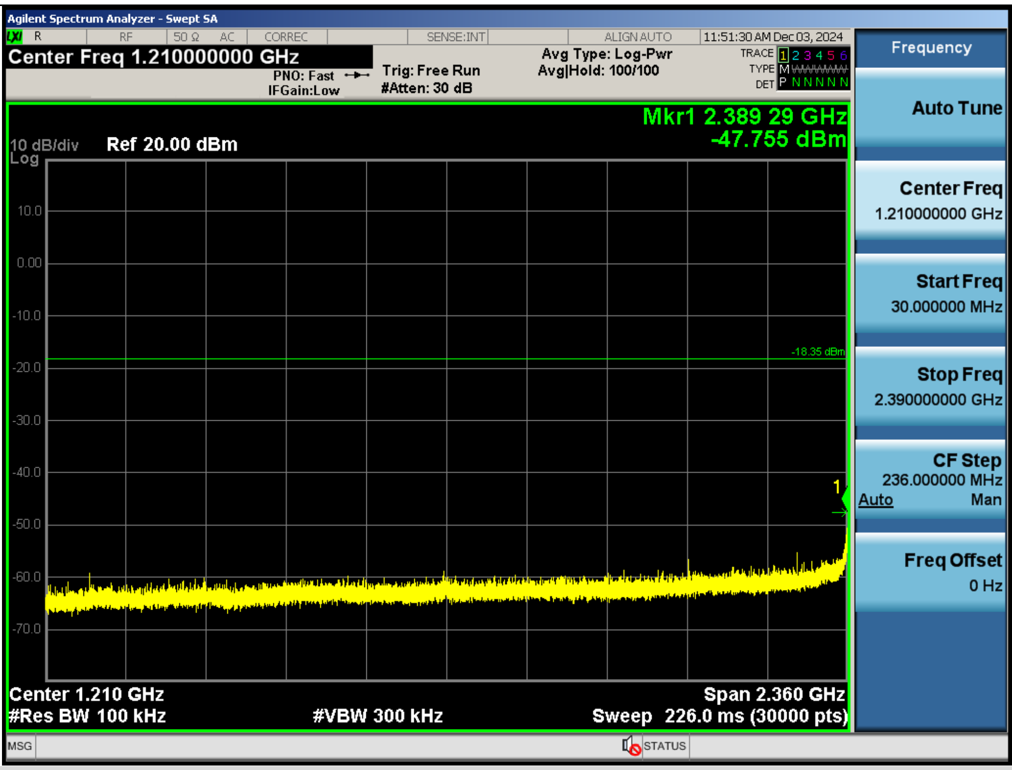


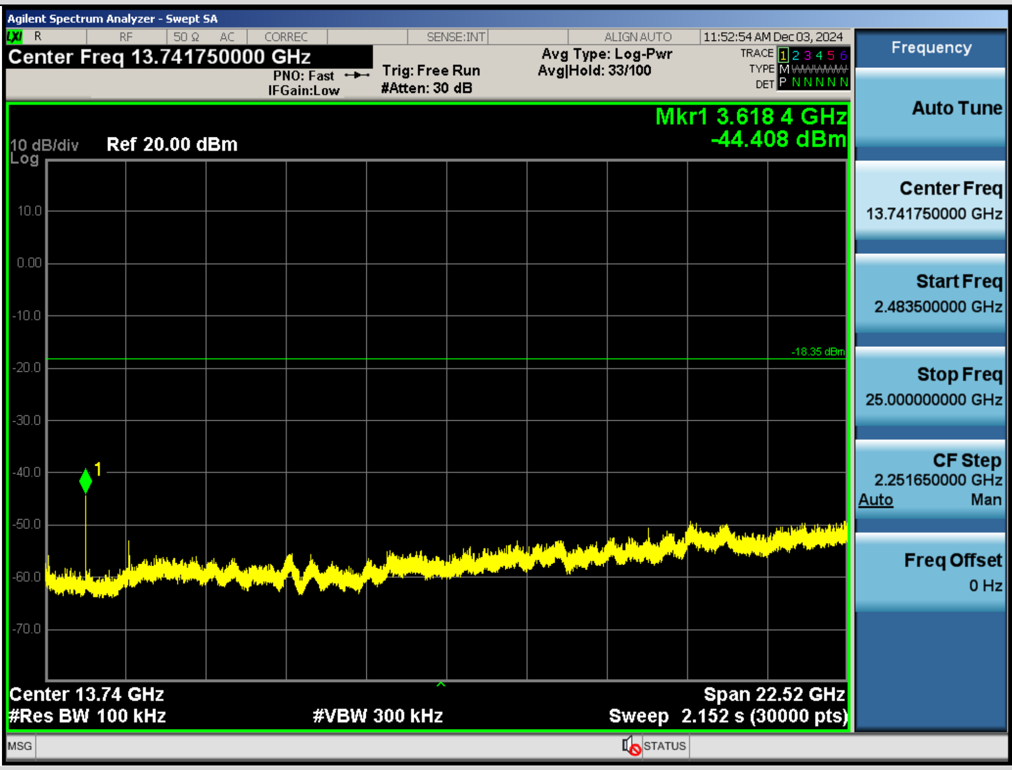
Test_Graph_802.11b_ANT1_2462_1Mbps_Lower Band Emissions



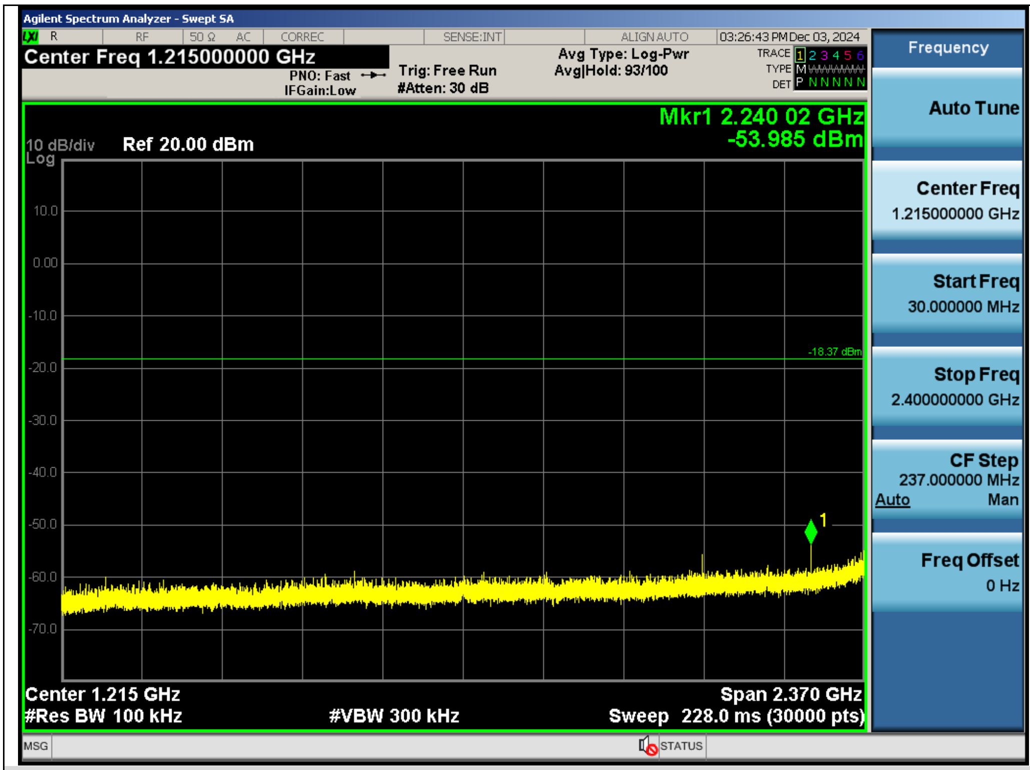
Test_Graph_802.11b_ANT1_2462_1Mbps_Higher Band Emissions



Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Emissions



Test_Graph_802.11g_ANT1_2412_6Mbps_Higher Band Emissions



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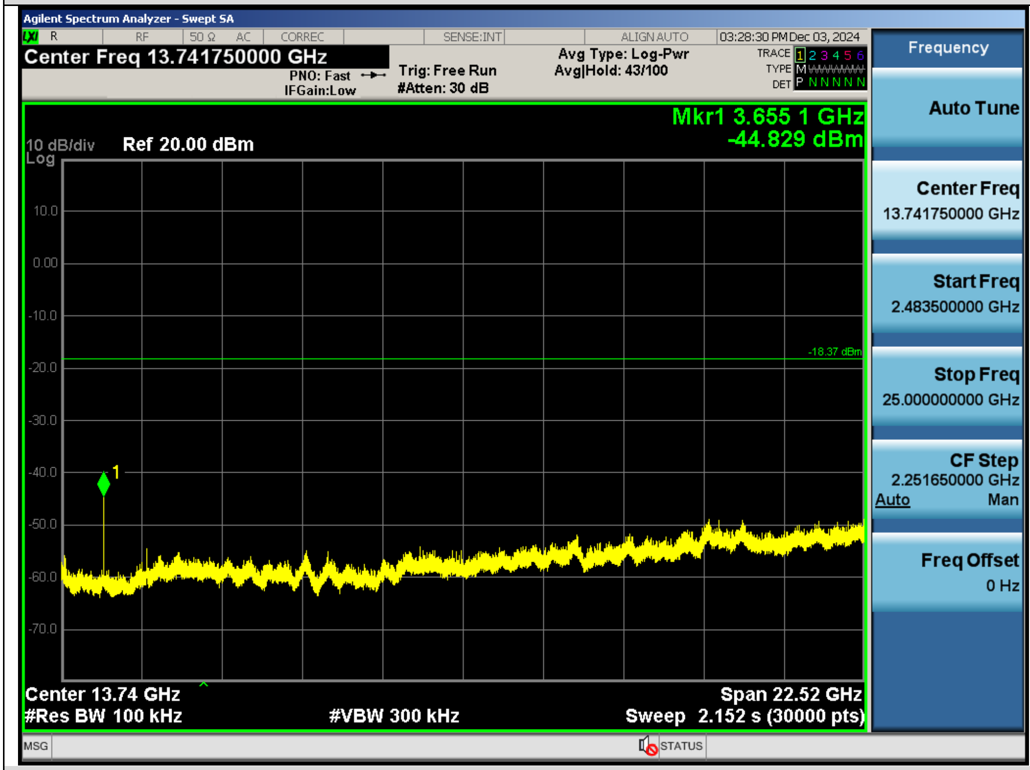

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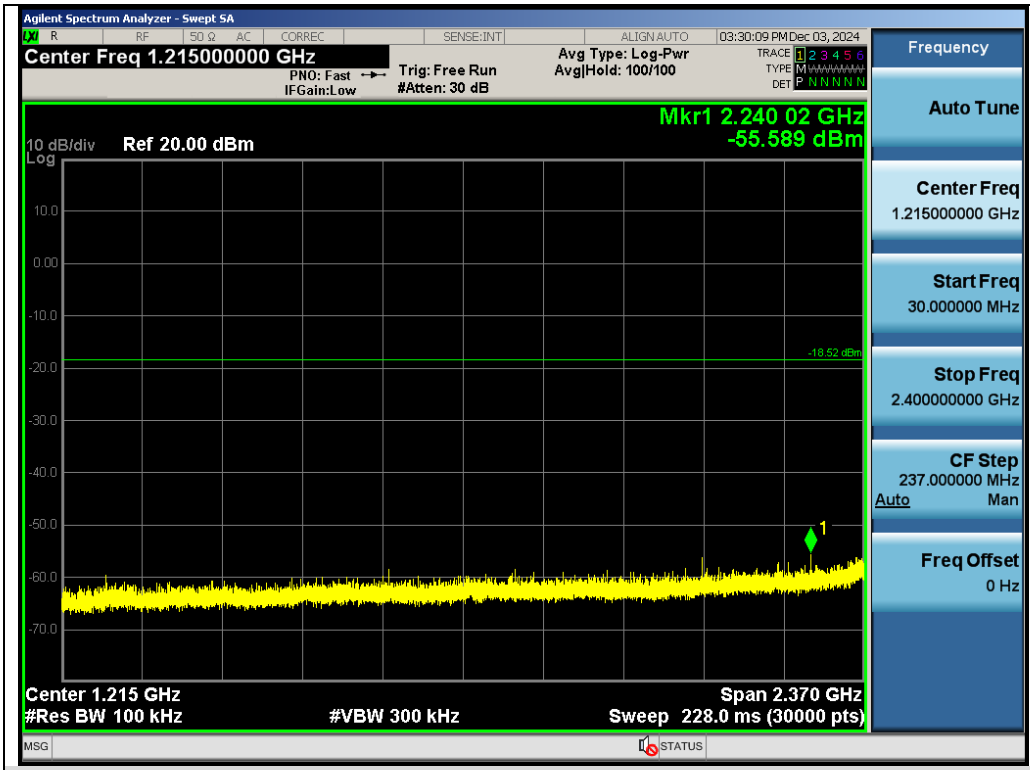

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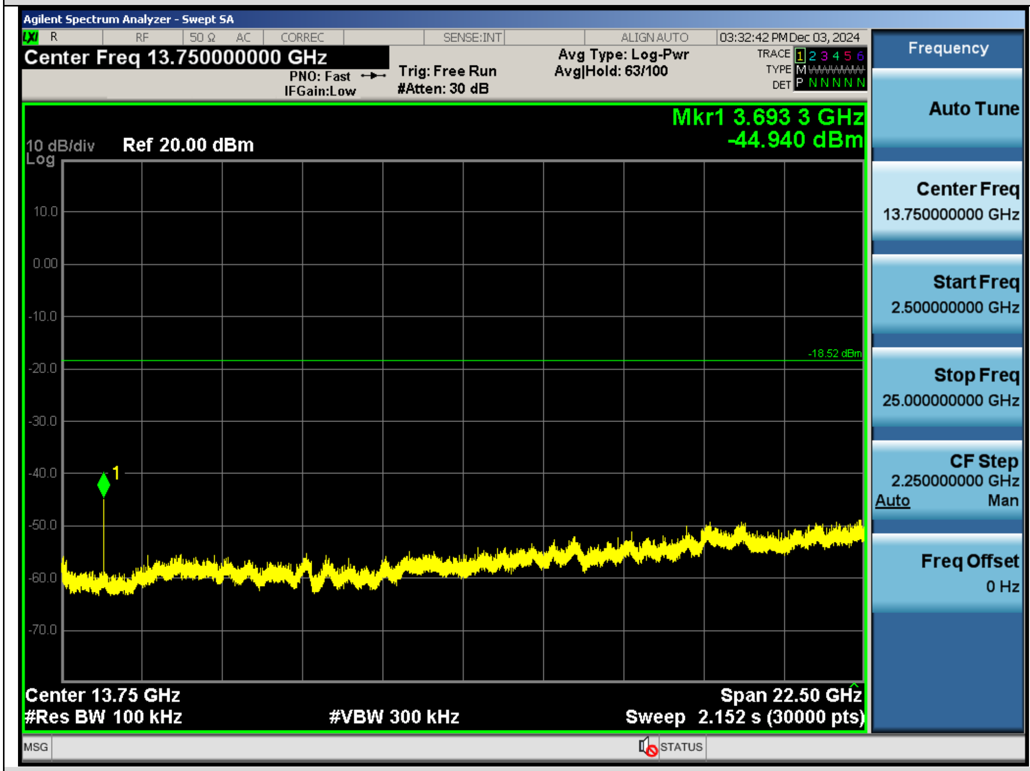

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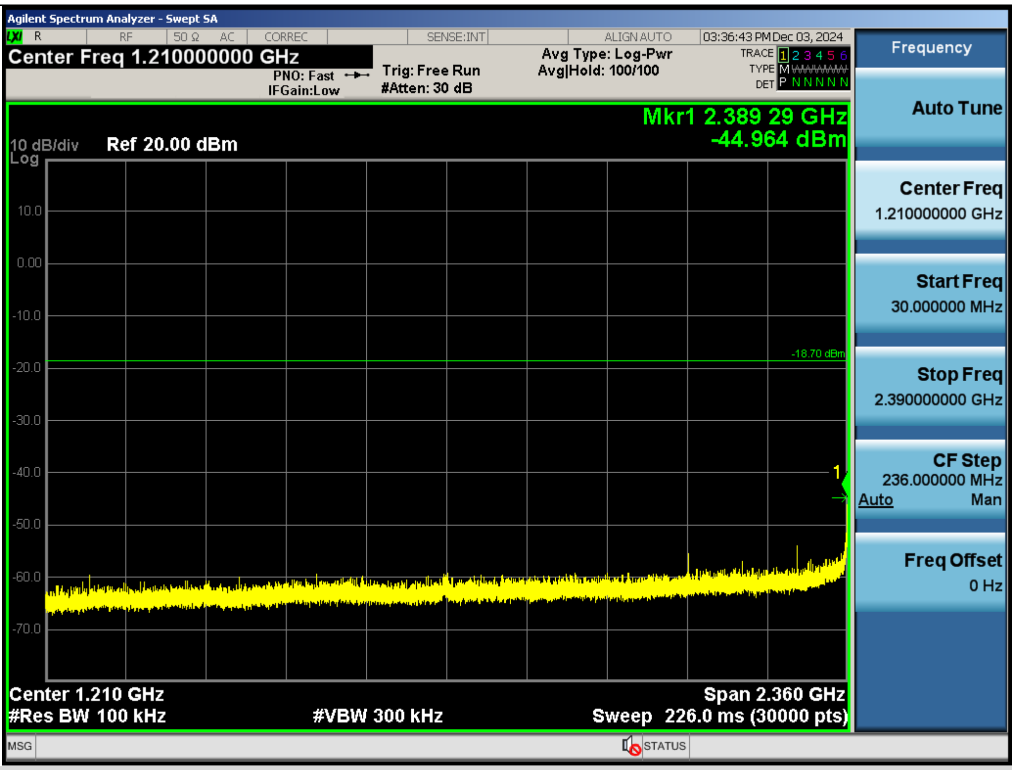
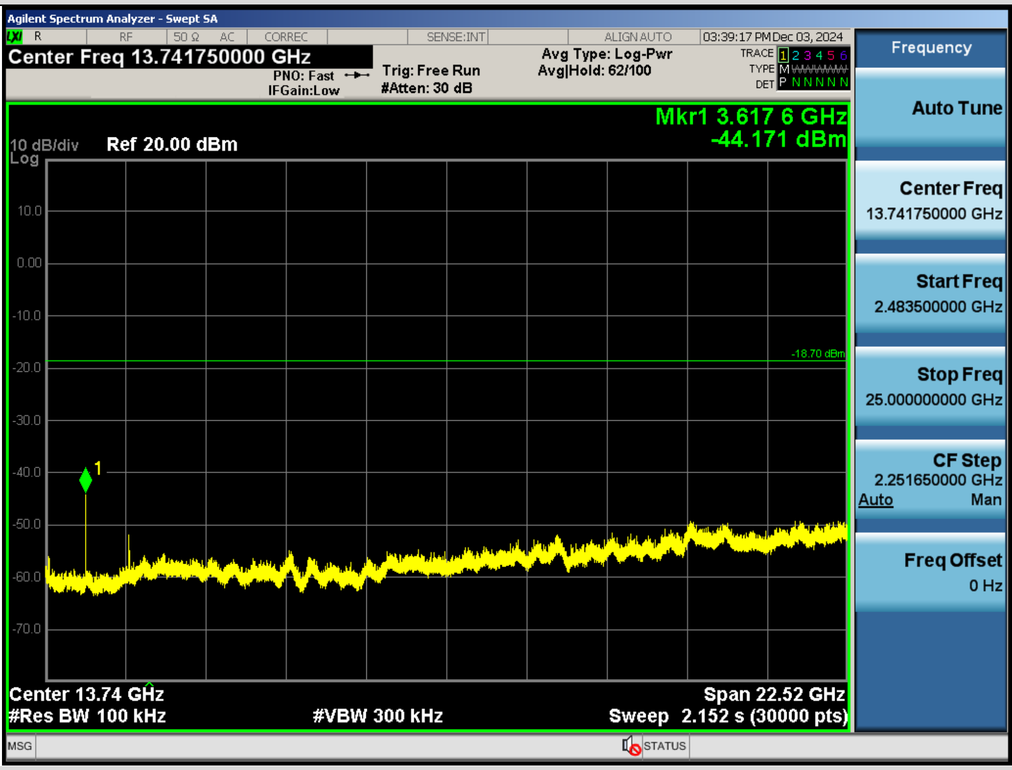


Test_Graph_802.11n20_ANT1_2412_MCS0_Lower Band Emissions



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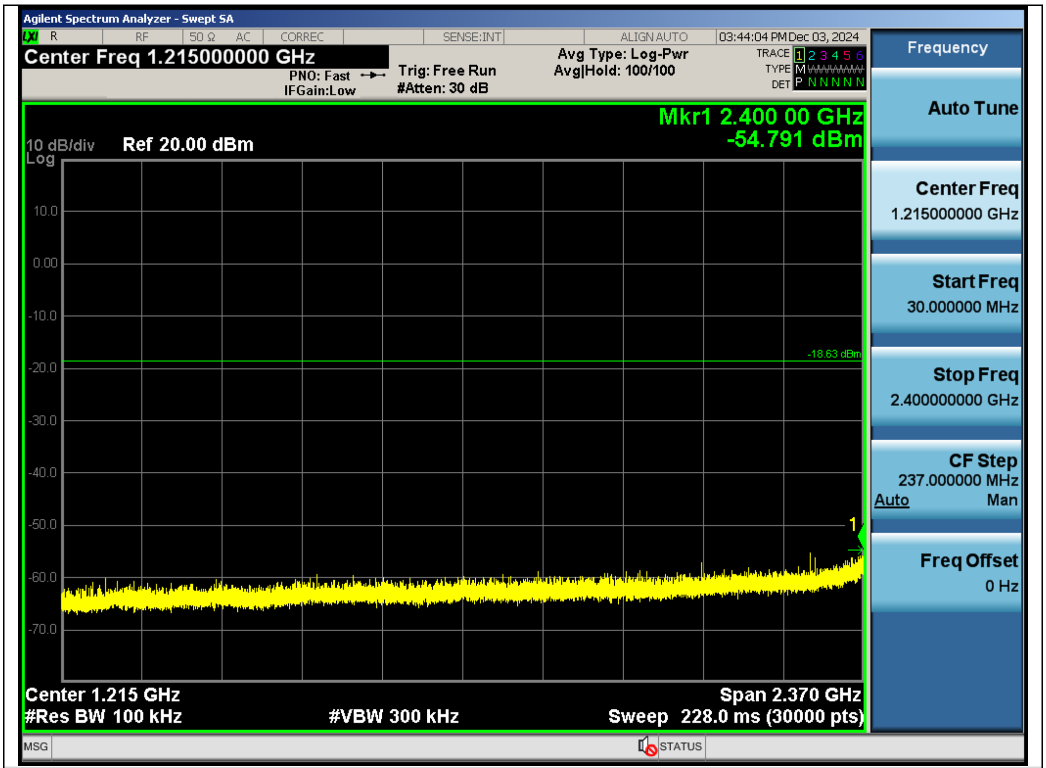

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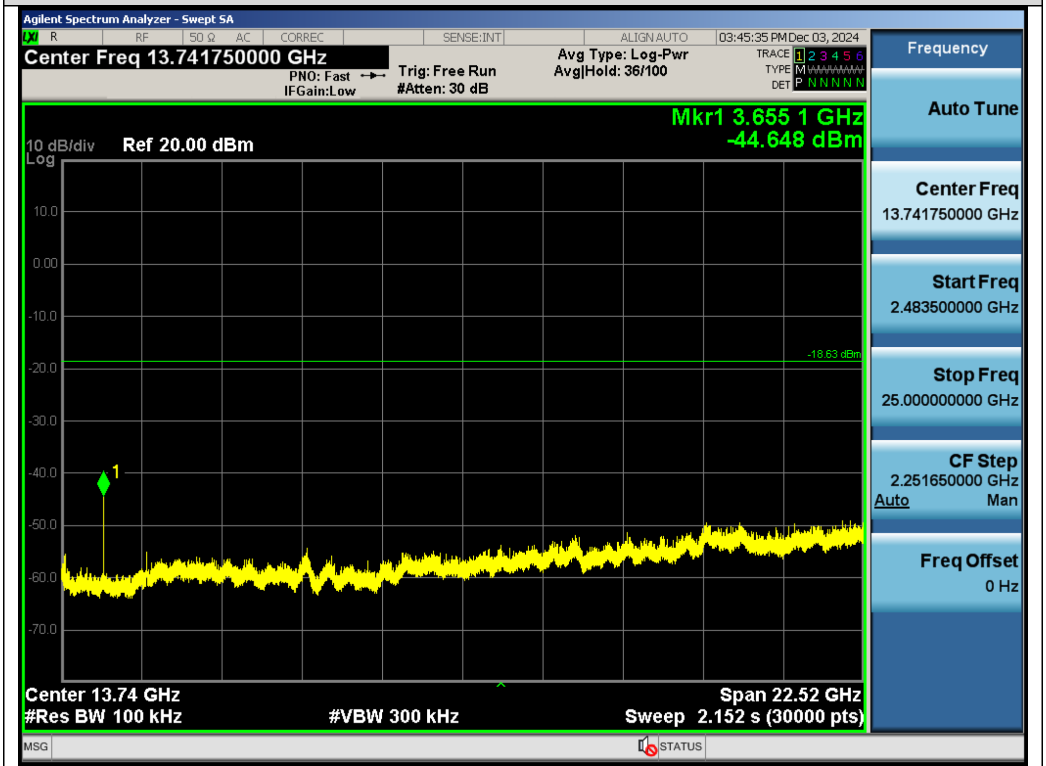

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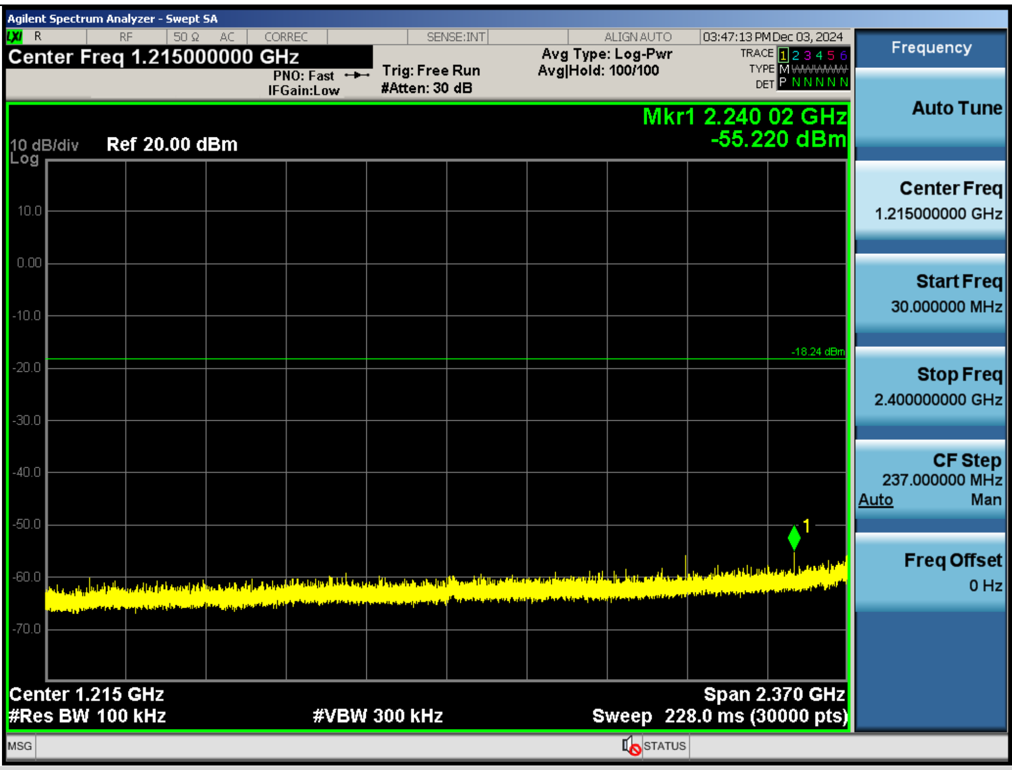

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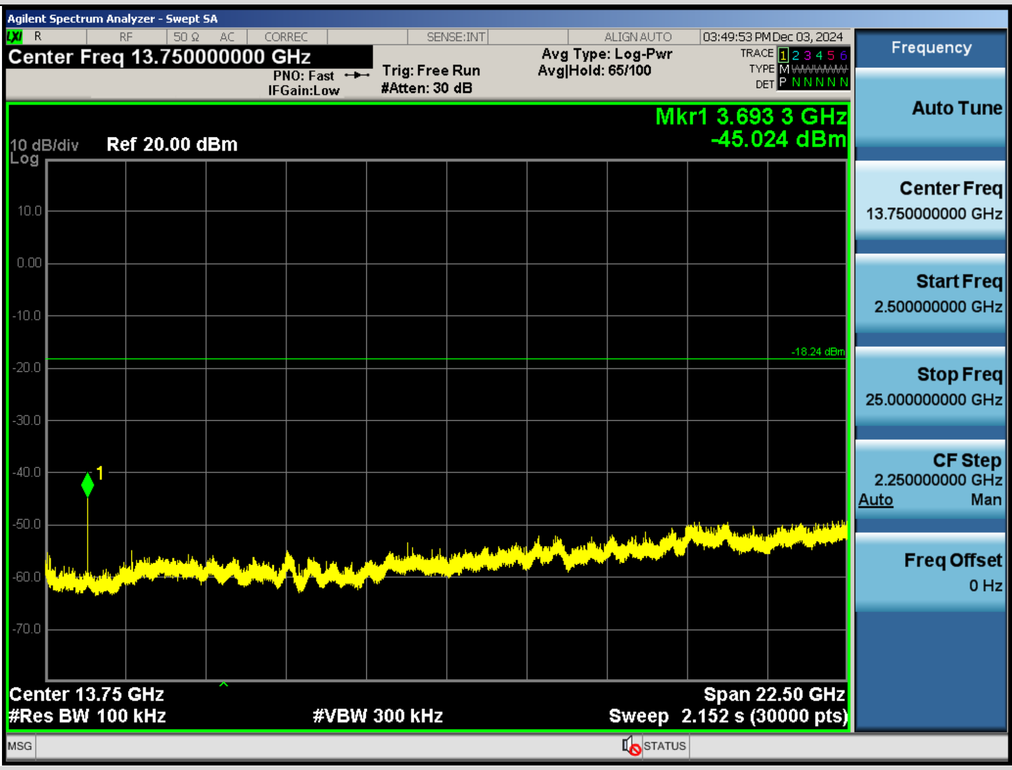

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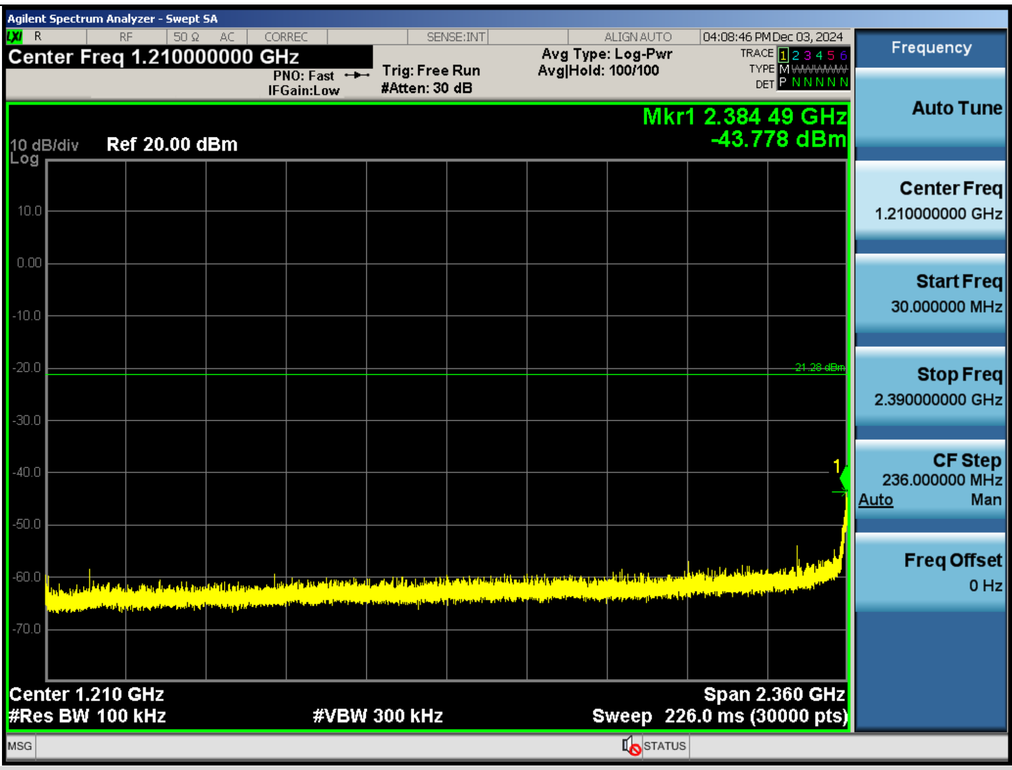

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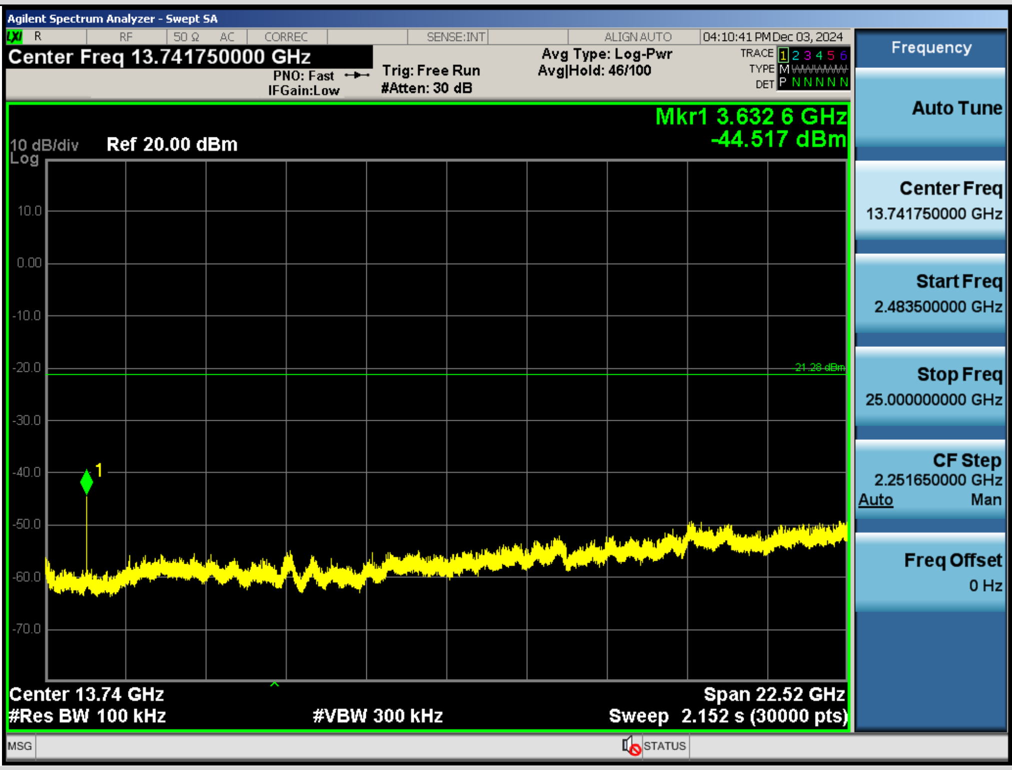

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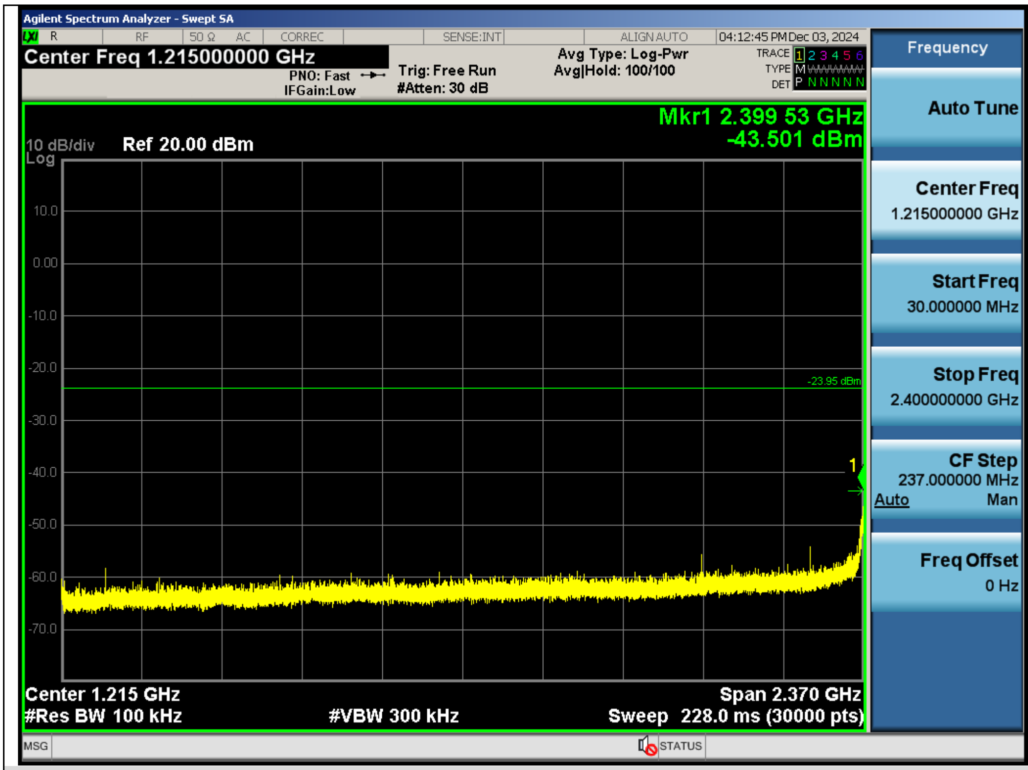

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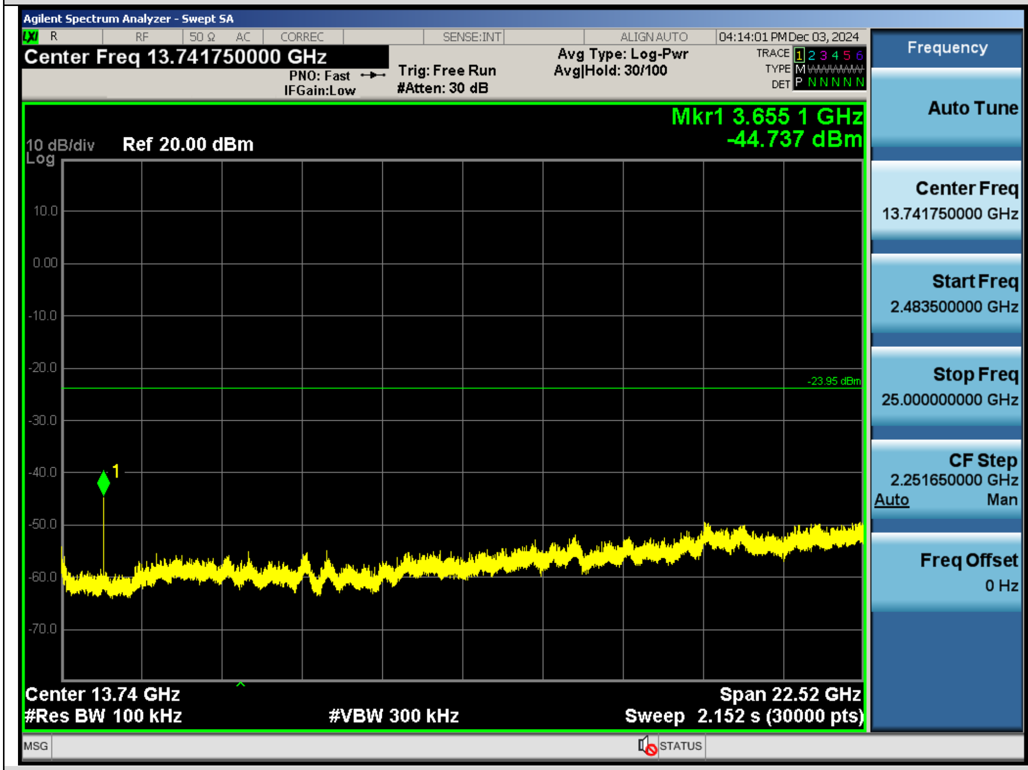

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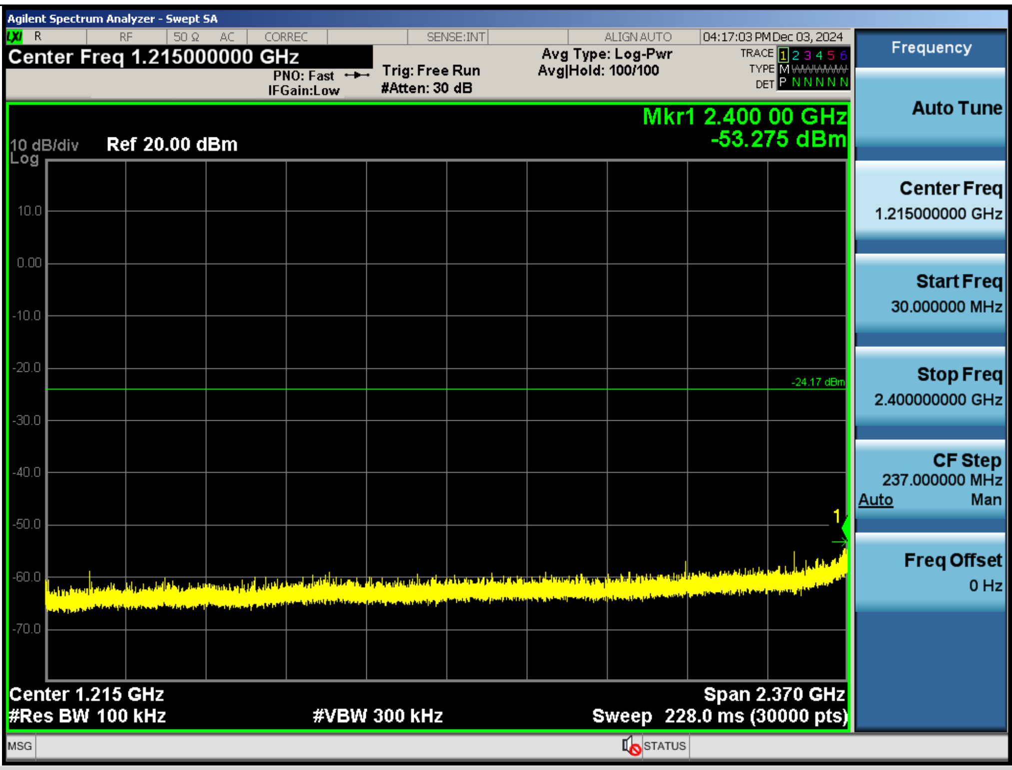

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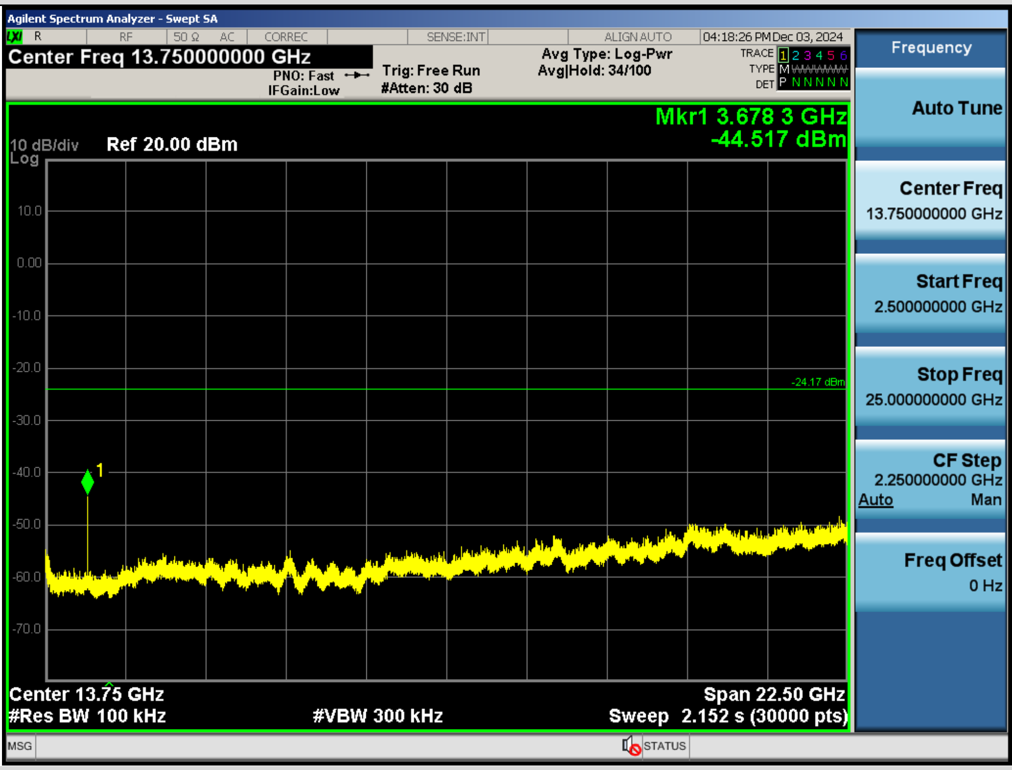

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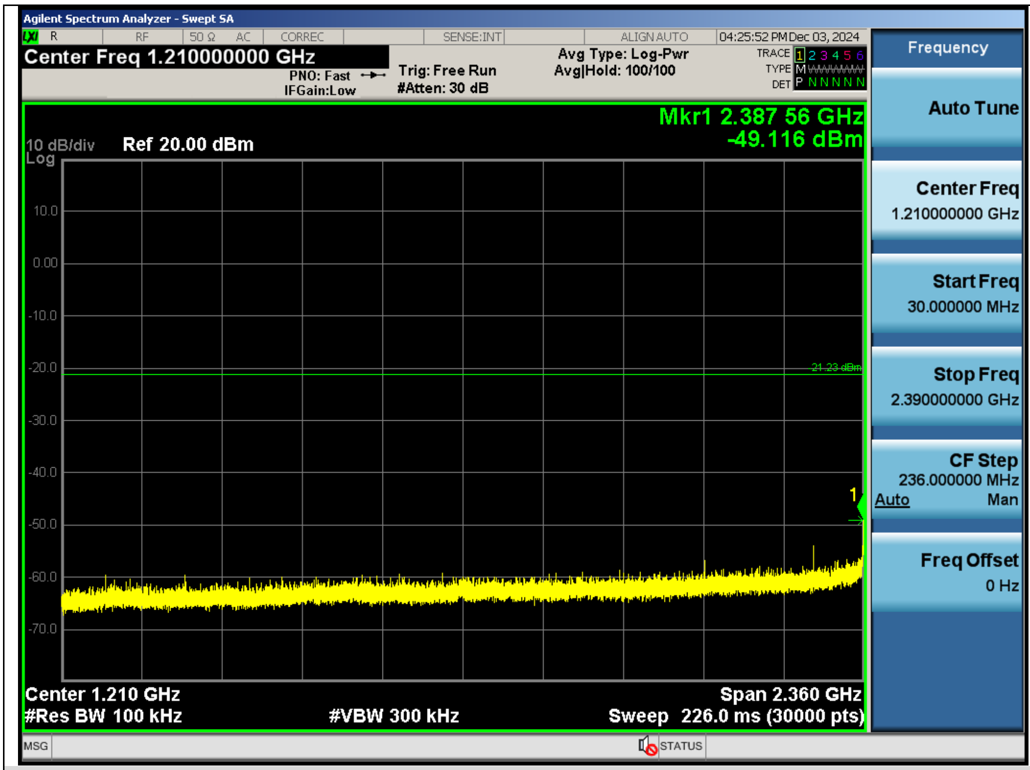

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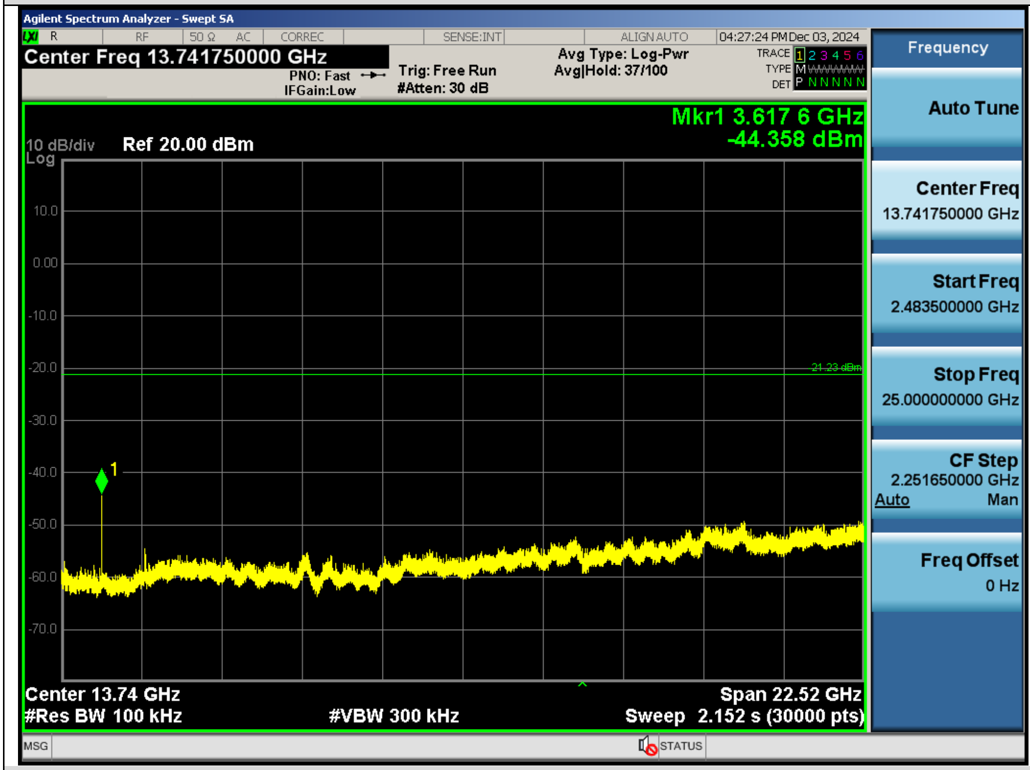

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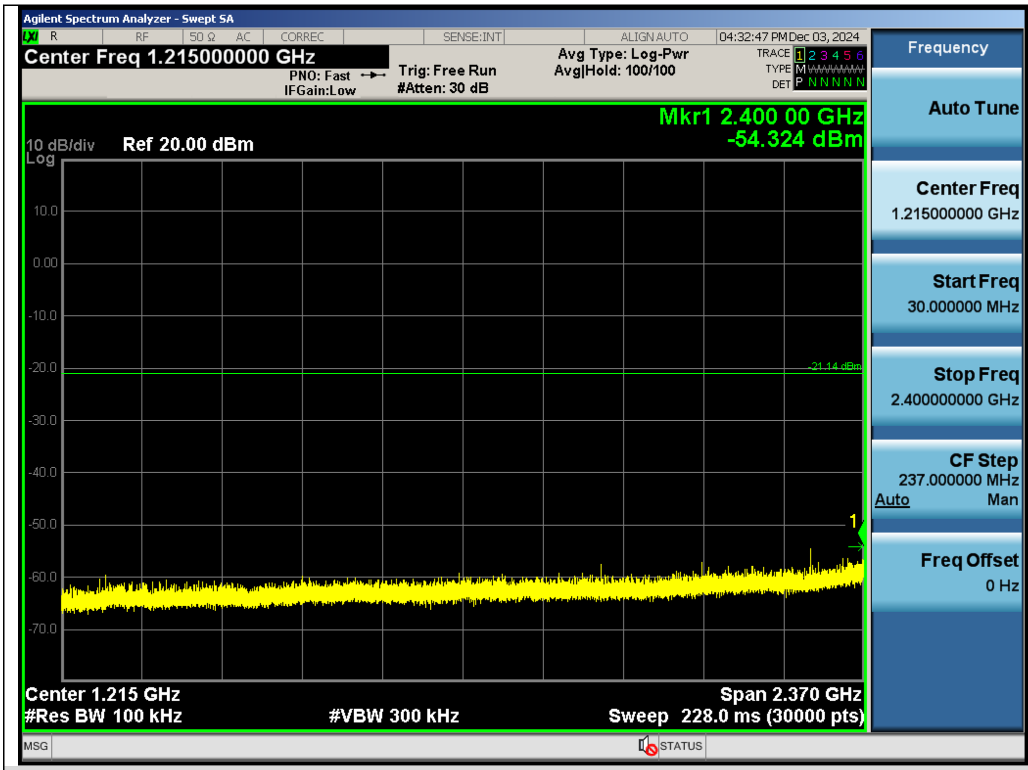

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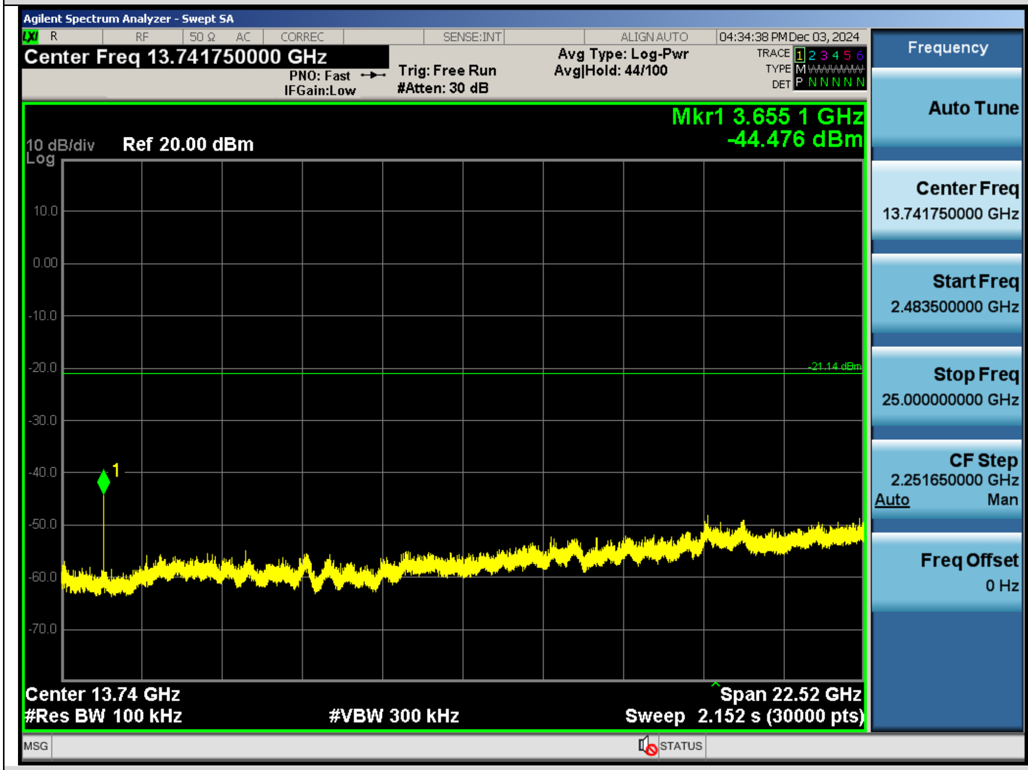

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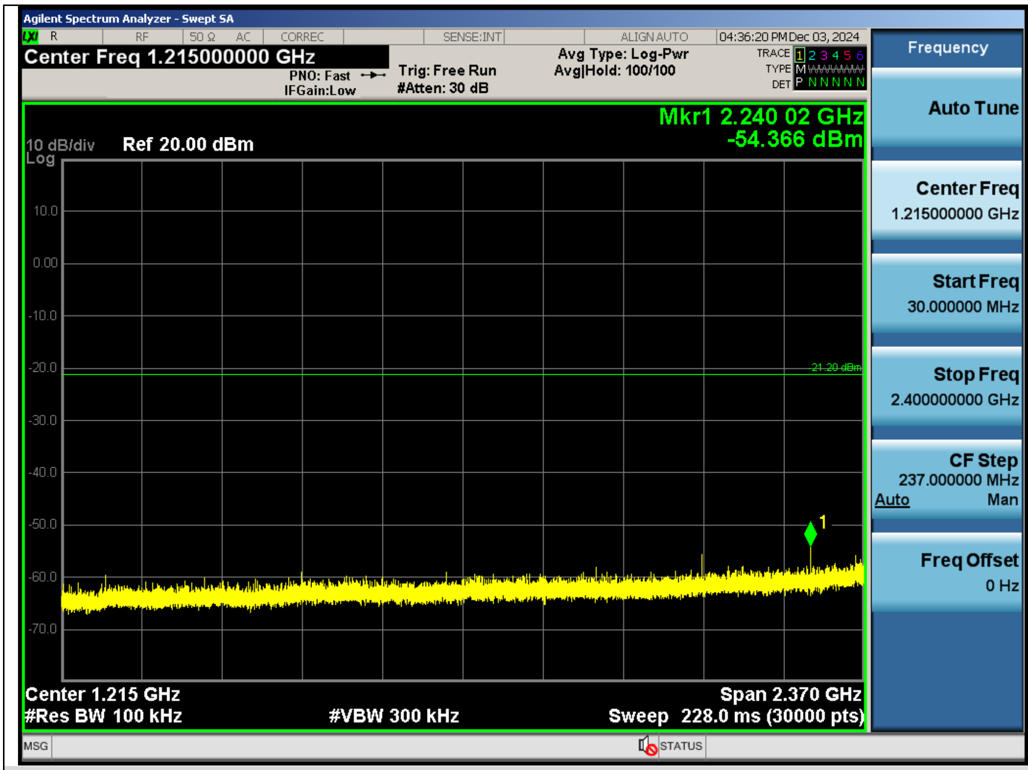

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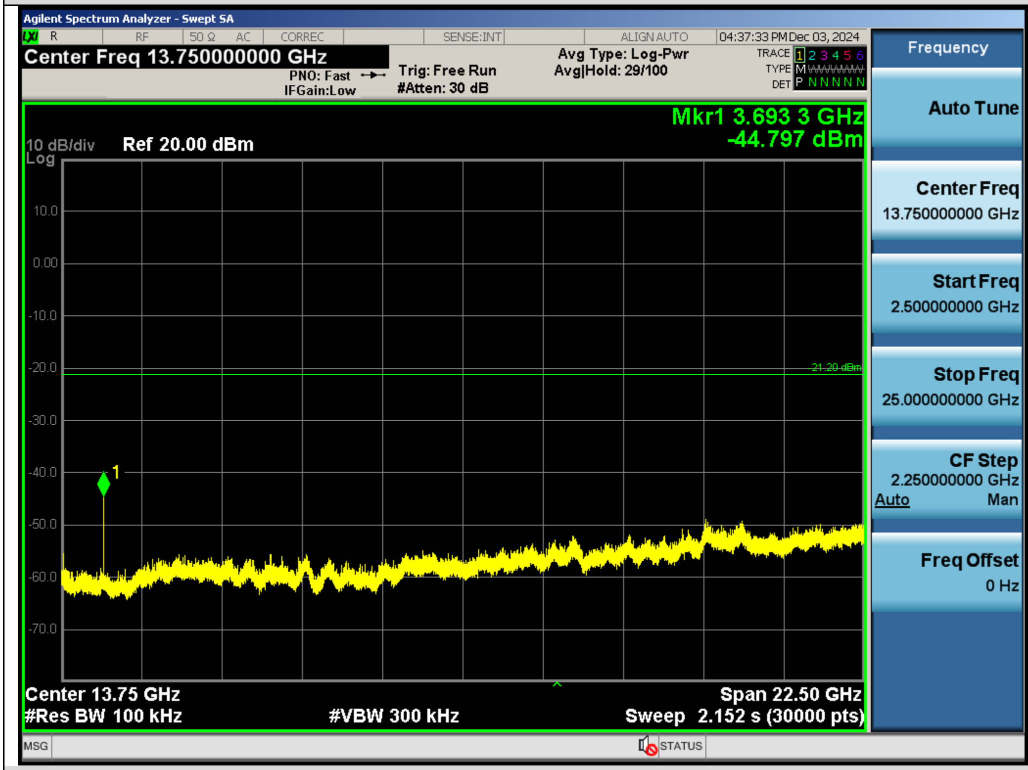

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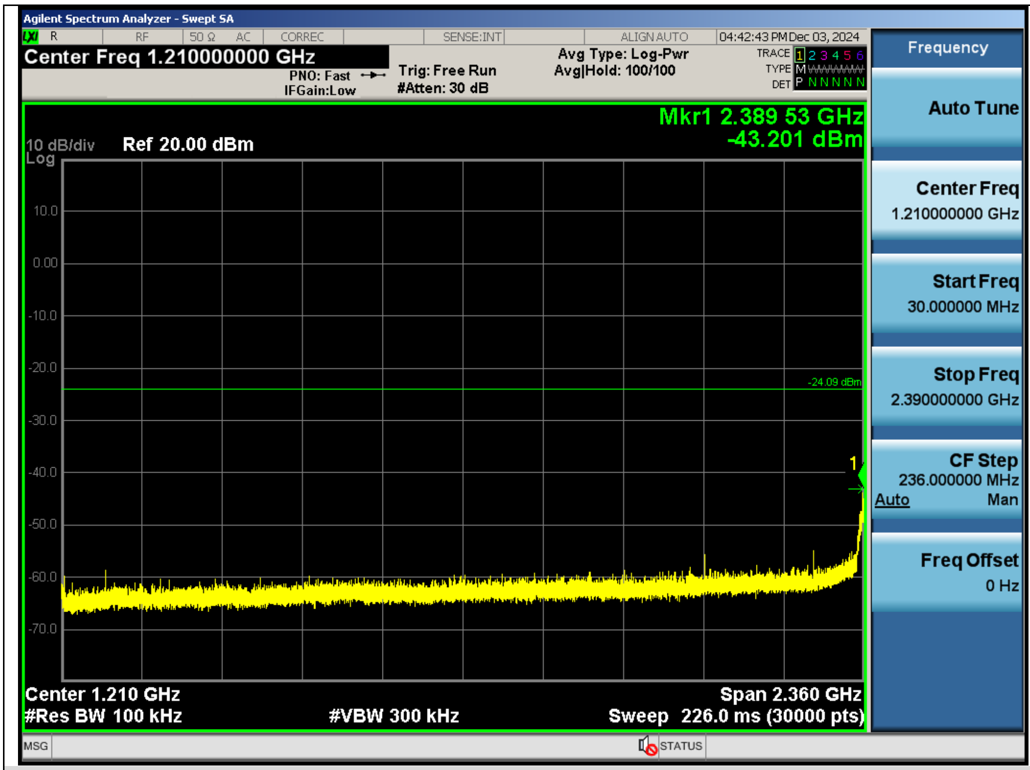

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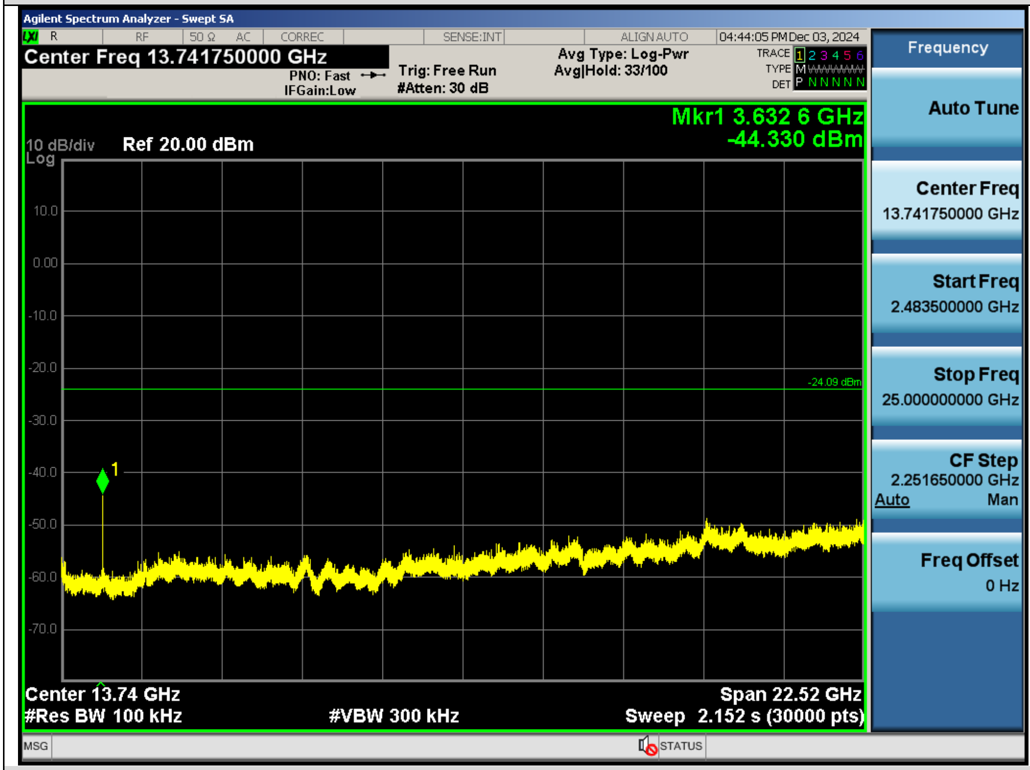

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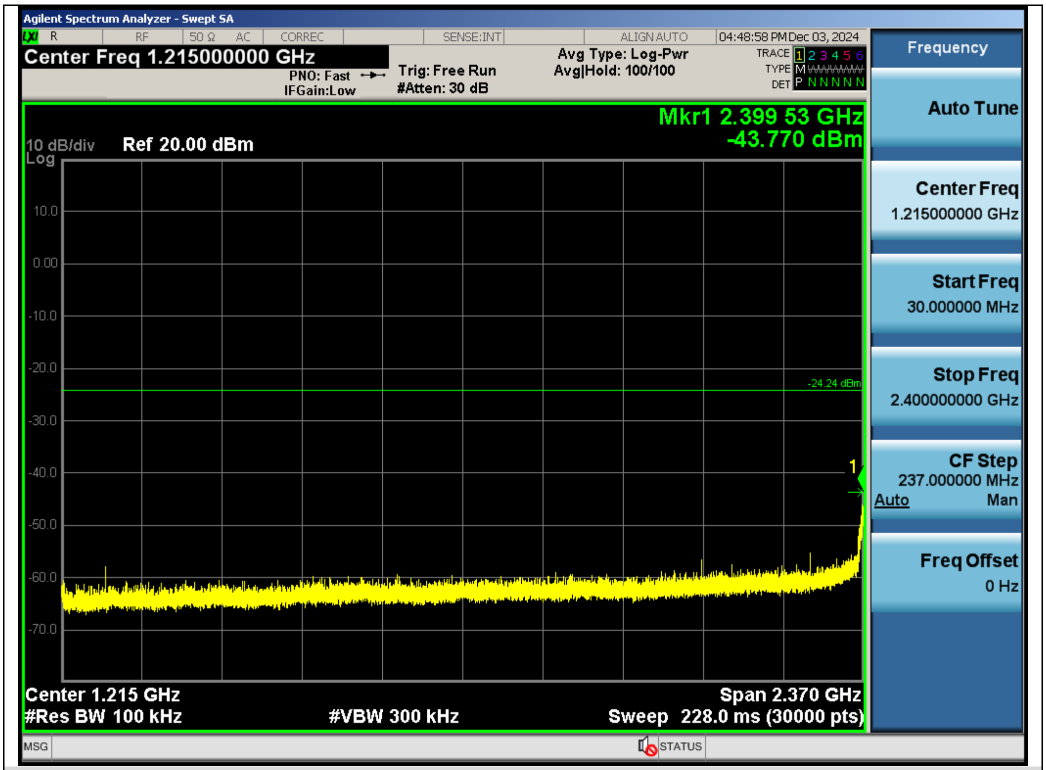

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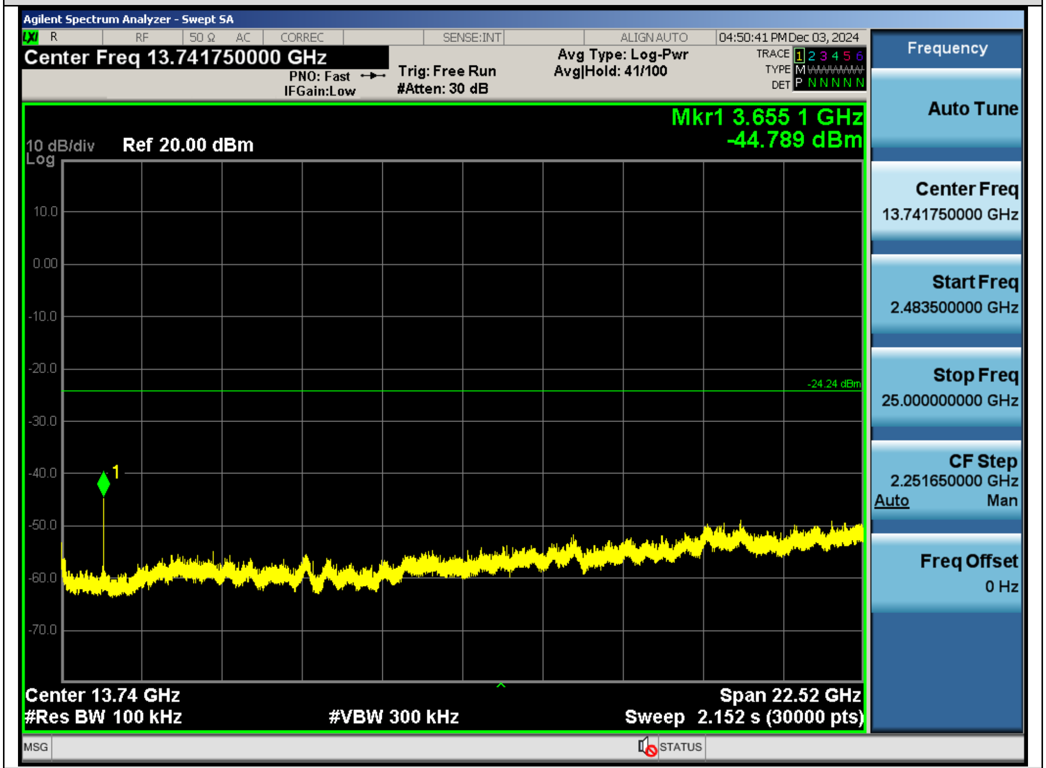

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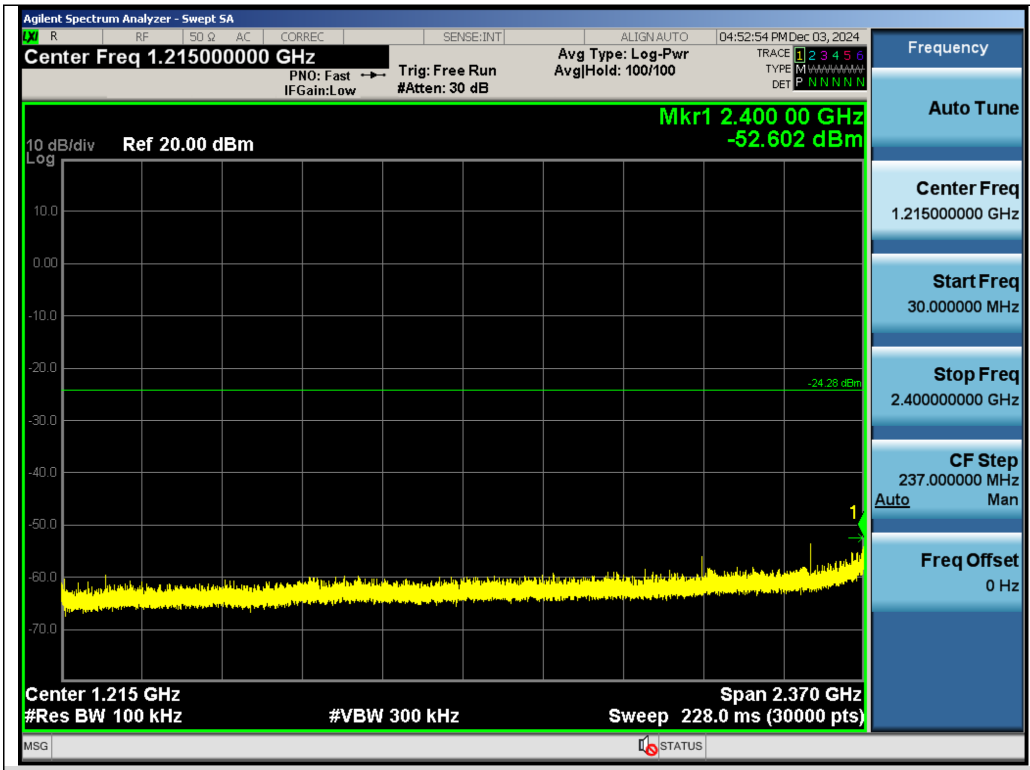

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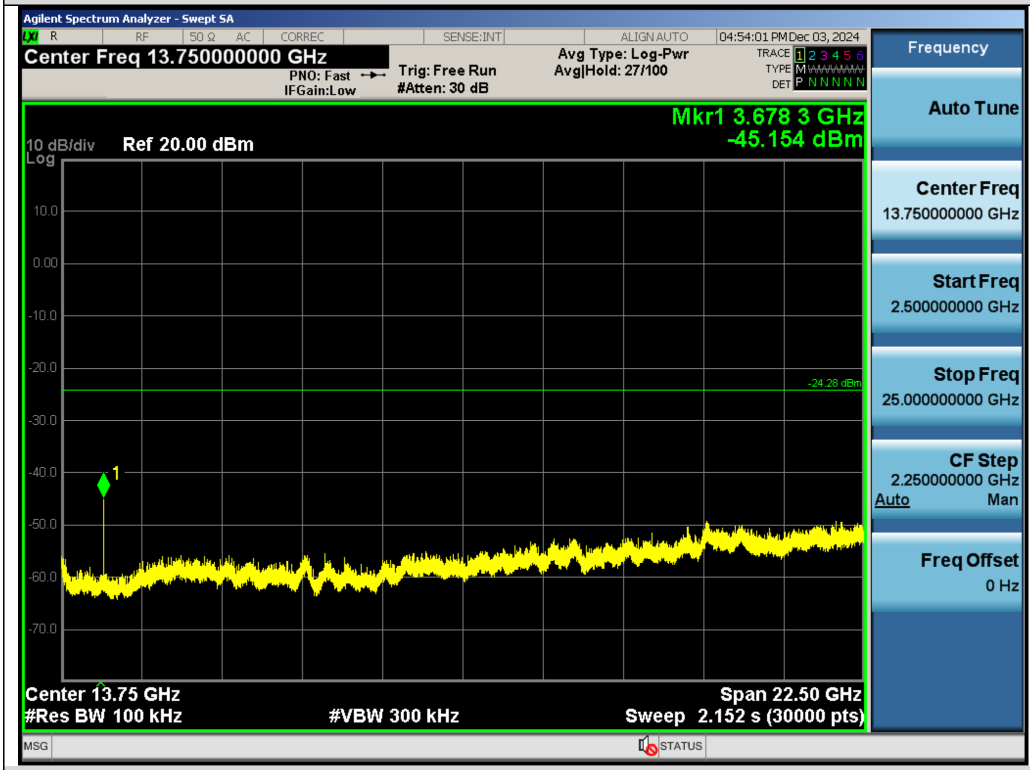
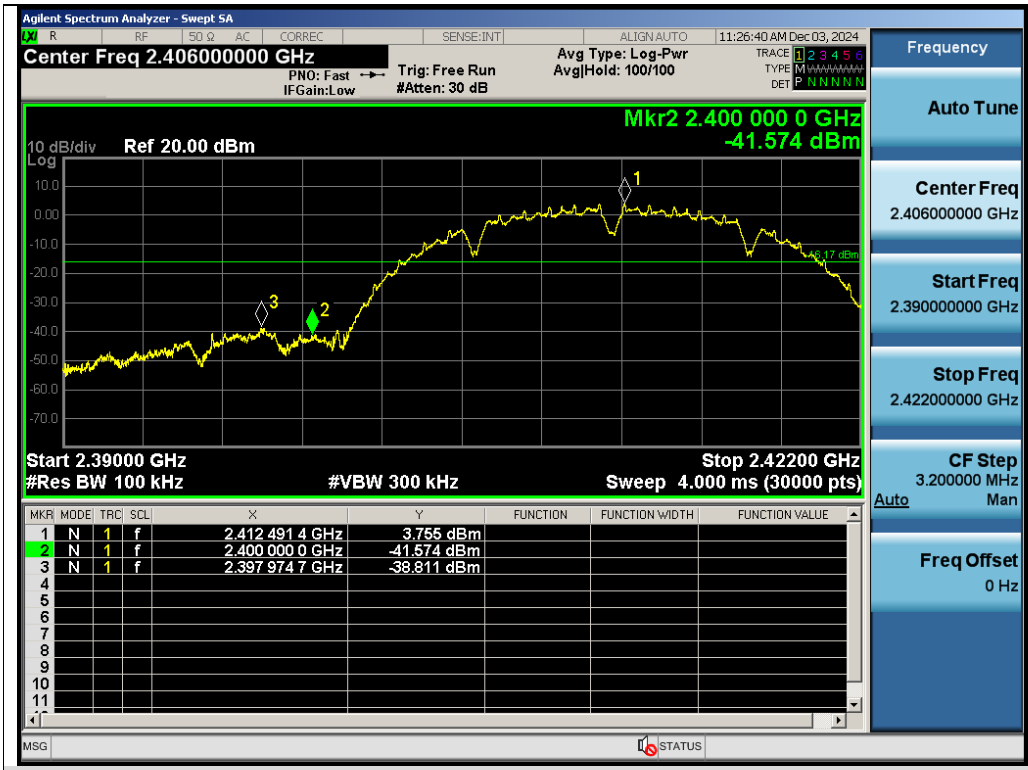
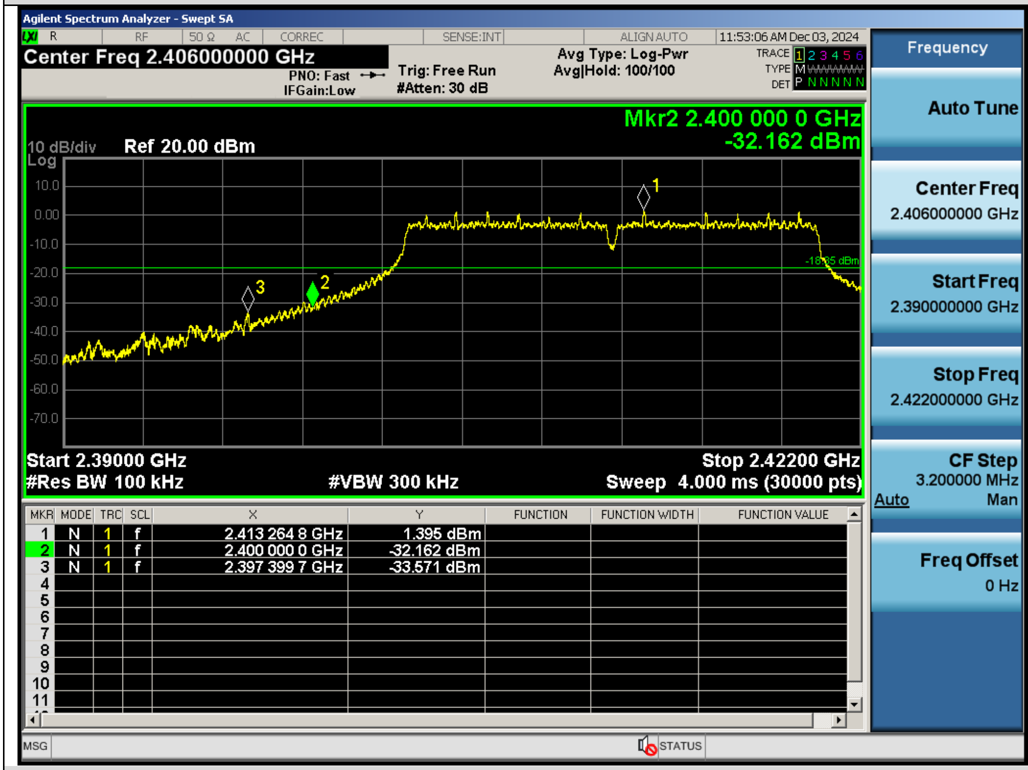


Test_Graph_802.11ax40_ANT1_2452_MCS0_Higher Band Emissions

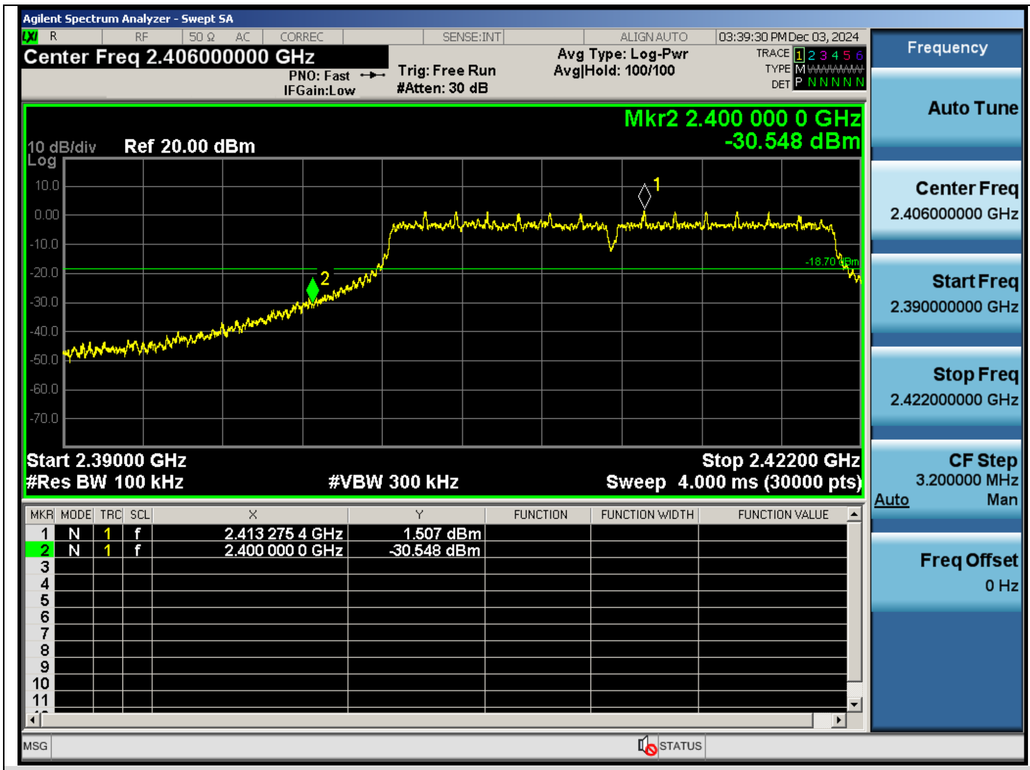
Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test_Graph_802.11b_ANT1_2412_1Mbps_Lower Band Edge Emissions



Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Edge Emissions



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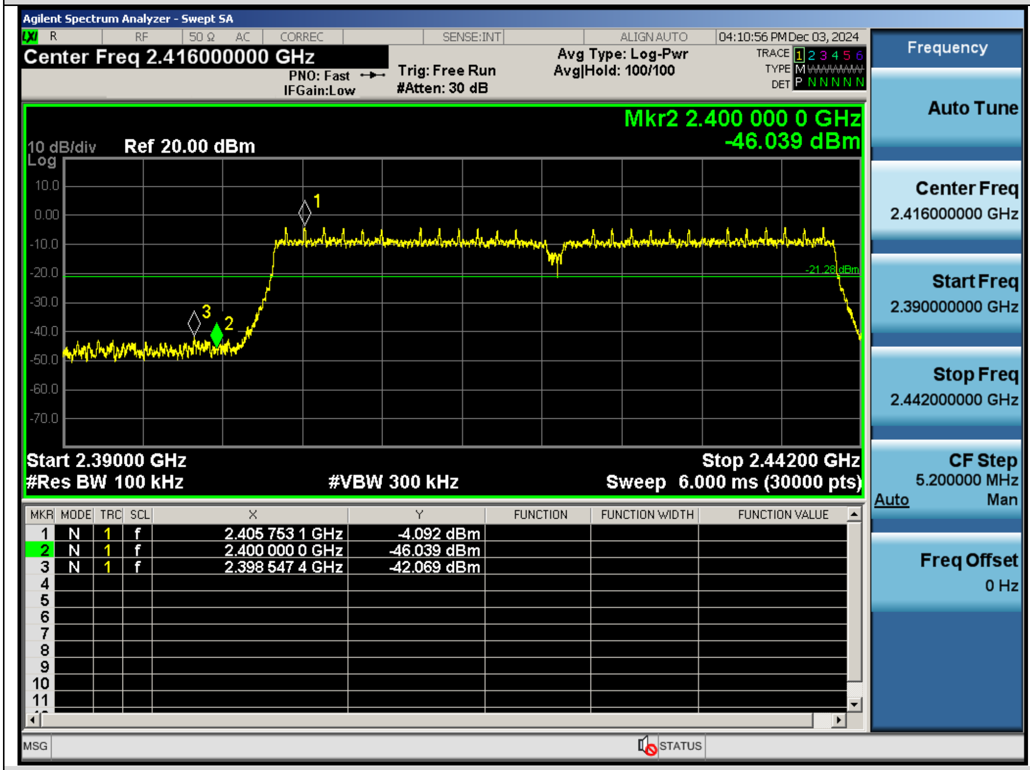

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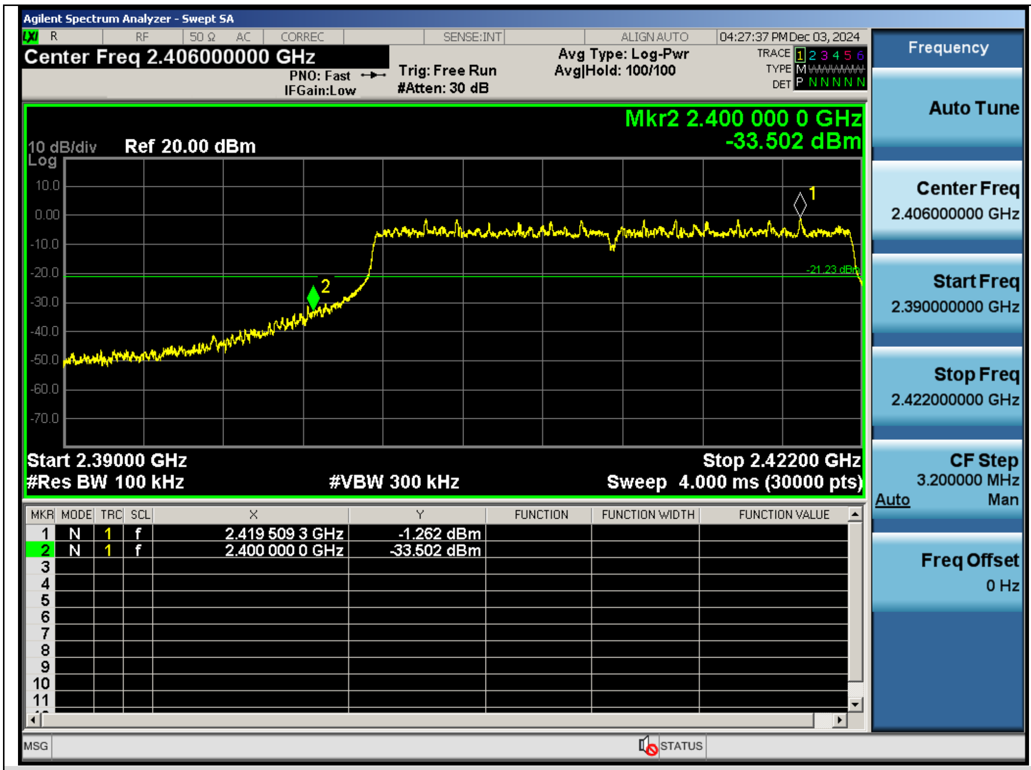
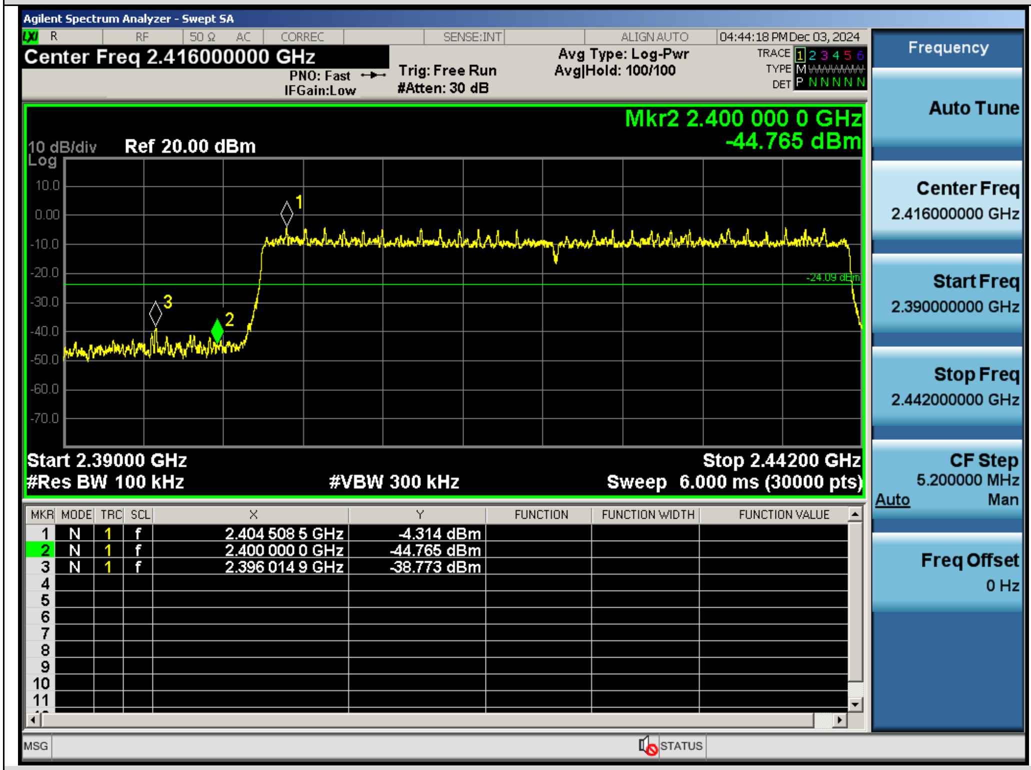


Test_Graph_802.11ax20_ANT1_2412_MCS0_Lower Band Edge Emissions



Test_Graph_802.11ax40_ANT1_2422_MCS0_Lower Band Edge Emissions

11. Radiated Spurious Emission

11.1 Measurement Limits

- 15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the

pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

◆ The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

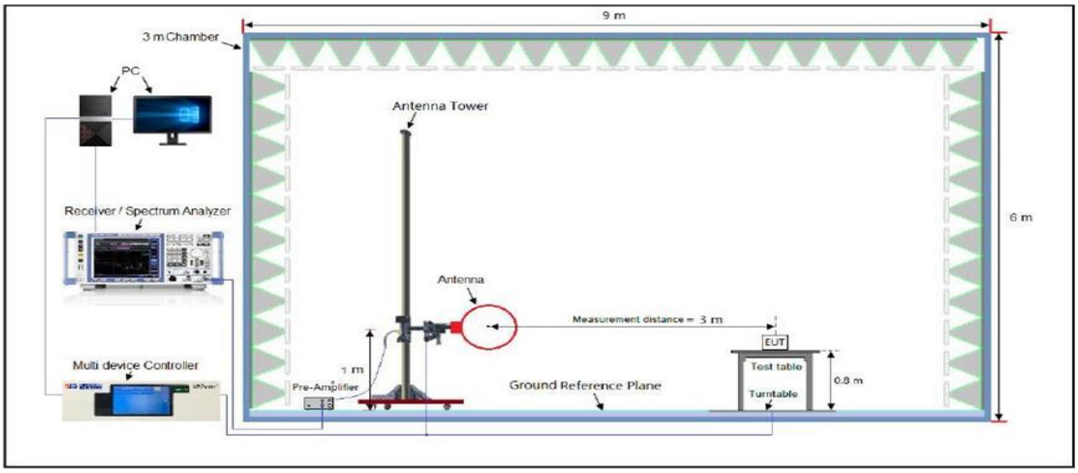
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

- **Average Measurements above 1GHz**

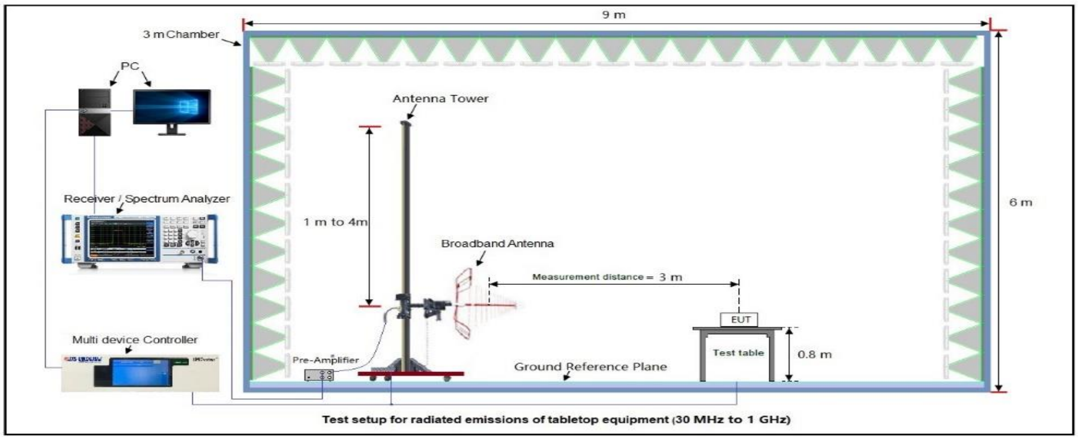
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ [3 × RBW]
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The applicable correction factor is [10*log (1 / D)], where D is the duty cycle. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.

11.3 Measurement Setup (Block Diagram of Configuration)

Radiated Emission Test Setup 9kHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz