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# FCC Test Report

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Report No.: AGC15661230401FE05

**FCC ID** : 2AZHPW0890  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Neurosens IMU sensor  
**BRAND NAME** : Neurosoft  
**MODEL NAME** : Neurosens IMU sensor  
**APPLICANT** : Neurosoft Ltd  
**DATE OF ISSUE** : Apr. 27, 2023  
**STANDARD(S)  
TEST PROCEDURE(S)** : FCC Part 15.247  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 27, 2023	Valid	Initial Release

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**TABLE OF CONTENTS**

**1. VERIFICATION OF CONFORMITY..... 5**

**2. GENERAL INFORMATION ..... 6**

    2.1. PRODUCT DESCRIPTION ..... 6

    2.2. TABLE OF CARRIER FREQUENCYS ..... 7

    2.3. IEEE 802.11N MODULATION SCHEME ..... 8

    2.4. RELATED SUBMITTAL(S) / GRANT (S) ..... 8

    2.5. TEST METHODOLOGY ..... 8

    2.6. SPECIAL ACCESSORIES ..... 8

    2.7. EQUIPMENT MODIFICATIONS..... 8

    2.8. ANTENNA REQUIREMENT..... 9

**3. MEASUREMENT UNCERTAINTY ..... 10**

**4. DESCRIPTION OF TEST MODES ..... 11**

**5. SYSTEM TEST CONFIGURATION ..... 12**

    5.1. CONFIGURATION OF EUT SYSTEM..... 12

    5.2. EQUIPMENT USED IN EUT SYSTEM..... 12

    5.3. SUMMARY OF TEST RESULTS ..... 12

**6. TEST FACILITY ..... 13**

**7. OUTPUT POWER ..... 14**

    7.1. MEASUREMENT PROCEDURE ..... 14

    7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) ..... 14

    7.3. LIMITS AND MEASUREMENT RESULT ..... 15

**8. BANDWIDTH ..... 16**

    8.1. MEASUREMENT PROCEDURE ..... 16

    8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) ..... 16

    8.3. LIMITS AND MEASUREMENT RESULTS ..... 17

**9. CONDUCTED SPURIOUS EMISSION..... 30**

    9.1. MEASUREMENT PROCEDURE ..... 30

    9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) ..... 30

    9.3. MEASUREMENT EQUIPMENT USEDJN..... 30

    9.4. LIMITS AND MEASUREMENT RESULT ..... 30

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<b>10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY .....</b>	<b>45</b>
10.1 MEASUREMENT PROCEDURE .....	45
10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	45
10.3 MEASUREMENT EQUIPMENT USED .....	45
10.4 LIMITS AND MEASUREMENT RESULT.....	45
<b>11. RADIATED EMISSION .....</b>	<b>52</b>
11.1. MEASUREMENT PROCEDURE.....	52
11.2. TEST SETUP.....	53
11.3. LIMITS AND MEASUREMENT RESULT .....	54
11.4. TEST RESULT.....	54
<b>12. LINE CONDUCTED EMISSION TEST .....</b>	<b>76</b>
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST .....	76
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST.....	76
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST .....	77
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST.....	77
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST .....	78
<b>APPENDIX A: PHOTOGRAPHS OF TEST SETUP .....</b>	<b>80</b>
<b>APPENDIX B: PHOTOGRAPHS OF EUT .....</b>	<b>80</b>

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### 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Neurosoft Ltd
<b>Address</b>	Voronin str.5, Ivanovo, 153032, Russia Federation
<b>manufacturer</b>	Neurosoft Ltd
<b>Address</b>	Voronin str.5, Ivanovo, 153032, Russia Federation
<b>Factory</b>	Neurosoft Ltd
<b>Address</b>	Voronin str.5, Ivanovo, 153032, Russia Federation
<b>Product Designation</b>	Neurosens IMU sensor
<b>Brand Name</b>	Neurosoft
<b>Test Model</b>	Neurosens IMU sensor
<b>Date of receipt of test item</b>	Apr. 19, 2023
<b>Date of test</b>	Apr. 19, 2023 to Apr. 27, 2023
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BGN/RF

We hereby certify that:

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

Prepared By *Thea Huang*  
 Thea Huang  
 (Project Engineer) Apr. 27, 2023

Reviewed By *Calvin Liu*  
 Calvin Liu  
 (Reviewer) Apr. 27, 2023

Approved By *Max Zhang*  
 Max Zhang  
 (Authorized Officer) Apr. 27, 2023

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

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

A major technical description of EUT is described as following

<b>Equipment Type</b>	WLAN 2.4G
<b>Frequency Band</b>	2400MHz ~ 2483.5MHz
<b>Operation Frequency</b>	2412MHz ~ 2462MHz
<b>Output Power (Average)</b>	IEEE 802.11b:15.57dBm; IEEE 802.11g:14.16dBm; IEEE 802.11n(HT20):12.52dBm; IEEE 802.11n(HT40):13.07dBm
<b>Output Power (Peak)</b>	IEEE 802.11b:18.33dBm; IEEE 802.11g:21.57dBm; IEEE 802.11n(HT20):20.00dBm; IEEE 802.11n(HT40):20.19dBm
<b>Modulation</b>	802.11b:DQPSK, DBPSK, CCK 802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK
<b>Data Rate</b>	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps
<b>Number of channels</b>	11
<b>Hardware Version</b>	V1.2
<b>Software Version</b>	V4.1.3
<b>Antenna Designation</b>	PCB antenna (Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	-1.56dBi
<b>Power Supply</b>	DC 3.7V by battery or DC 5V by PC

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**2.2. TABLE OF CARRIER FREQUENCIES**

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

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

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### 2.3. IEEE 802.11N MODULATION SCHEME

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

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

### 2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AZHPW0890** filing to comply with the FCC Part 15 requirements.

### 2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules  
ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

### 2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

### 2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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## 2.8. ANTENNA REQUIREMENT

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

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

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### 3. MEASUREMENT UNCERTAINTY

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

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1$ dB
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0$ dB
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8$ dB
Uncertainty of total RF power, conducted	$U_c = \pm 0.8$ dB
Uncertainty of RF power density, conducted	$U_c = \pm 2.6$ dB
Uncertainty of spurious emissions, conducted	$U_c = \pm 2.7$ %
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2$ %

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#### 4. DESCRIPTION OF TEST MODES

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

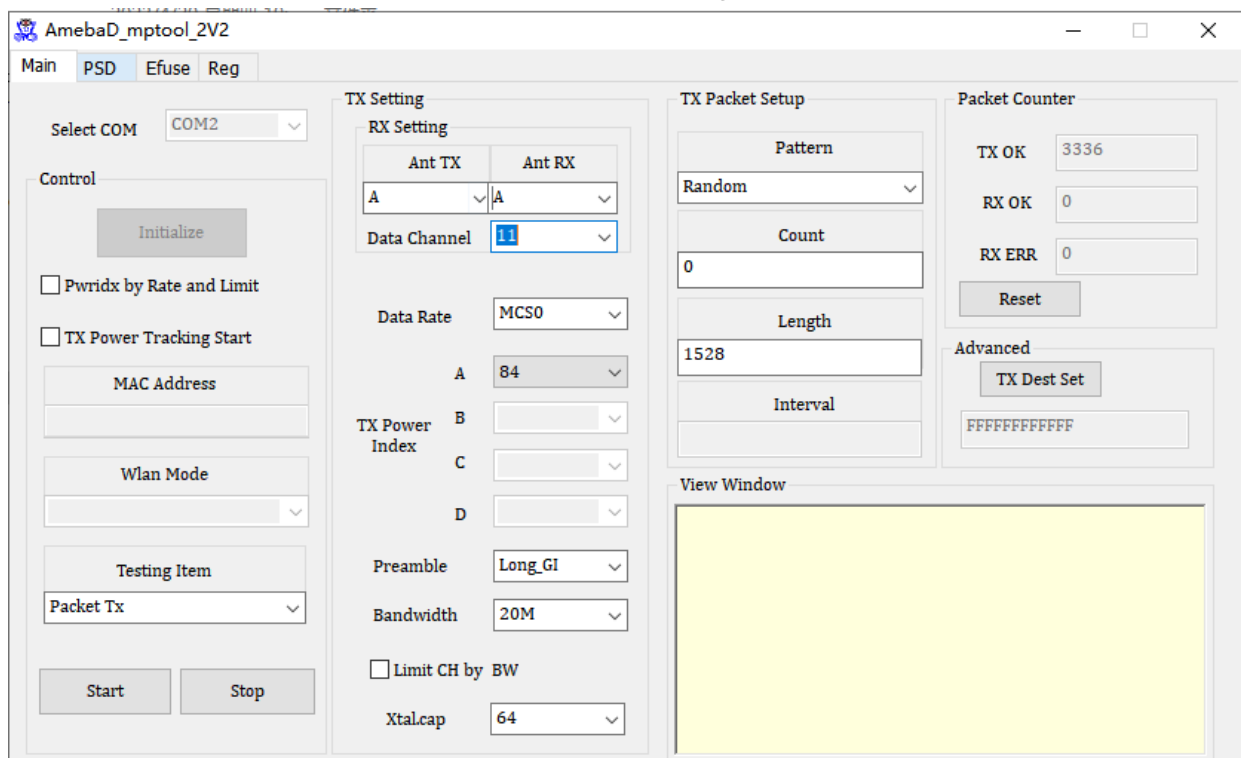
**Note:**

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

**Note:**

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

#### Software Setting

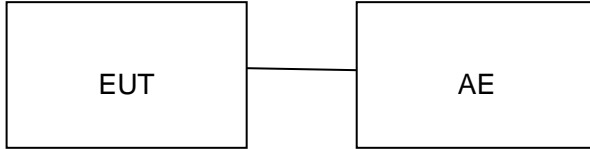


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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Neurosens IMU sensor	Neurosens IMU sensor	2AZHPW0890	EUT
2	Huawei Notebook PC	D15	DC 5V	AE
3	PC adapter	HW-200200CP1	DC 5V	AE

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247(b)(3)	Output Power	Compliant
§15.247(a)(2)	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247(e)	Maximum Conducted Output Power Spectral Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247(d)	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

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## 6. TEST FACILITY

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

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Feb. 18, 2023	Feb. 17, 2024
LISN	R&S	ESH2-Z5	100086	Aug. 04, 2022	Aug. 03, 2023
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Signal Analyzer	Agilent	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 21, 2023	Apr. 20, 2025
Double-Ridged Waveguide Horn	ETS	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2023	Jan. 04, 2025
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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## 7. OUTPUT POWER

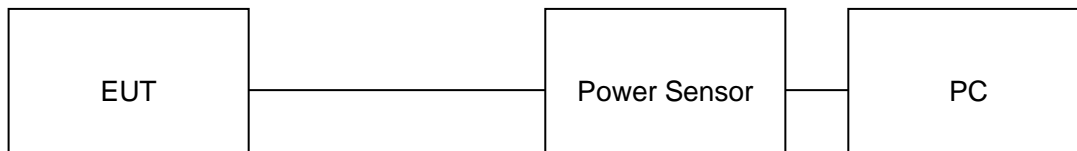
### 7.1. MEASUREMENT PROCEDURE

For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

**Note :** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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### 7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power					
Test Mode	Test Channel (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
802.11b	2412	15.32	17.89	≤30	Pass
	2437	15.51	17.98	≤30	Pass
	2462	15.57	18.33	≤30	Pass
802.11g	2412	14.03	21.46	≤30	Pass
	2437	13.71	21.17	≤30	Pass
	2462	14.16	21.57	≤30	Pass
802.11n20	2412	12.20	19.63	≤30	Pass
	2437	12.38	19.74	≤30	Pass
	2462	12.52	20.00	≤30	Pass
802.11n40	2422	12.60	19.84	≤30	Pass
	2437	12.39	19.71	≤30	Pass
	2452	13.07	20.19	≤30	Pass

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## 8. BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

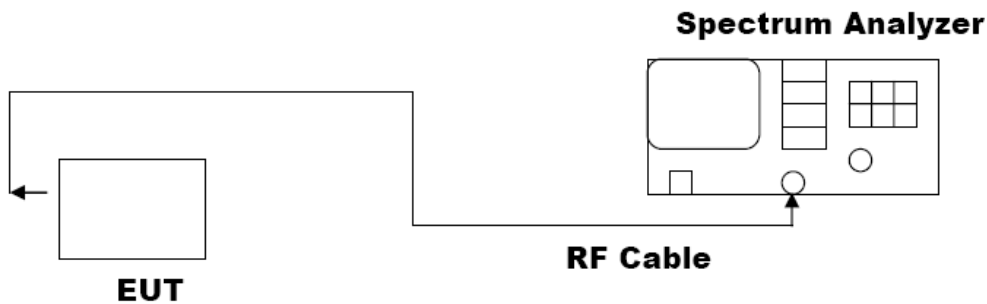
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\geq$ 3 $\times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel  
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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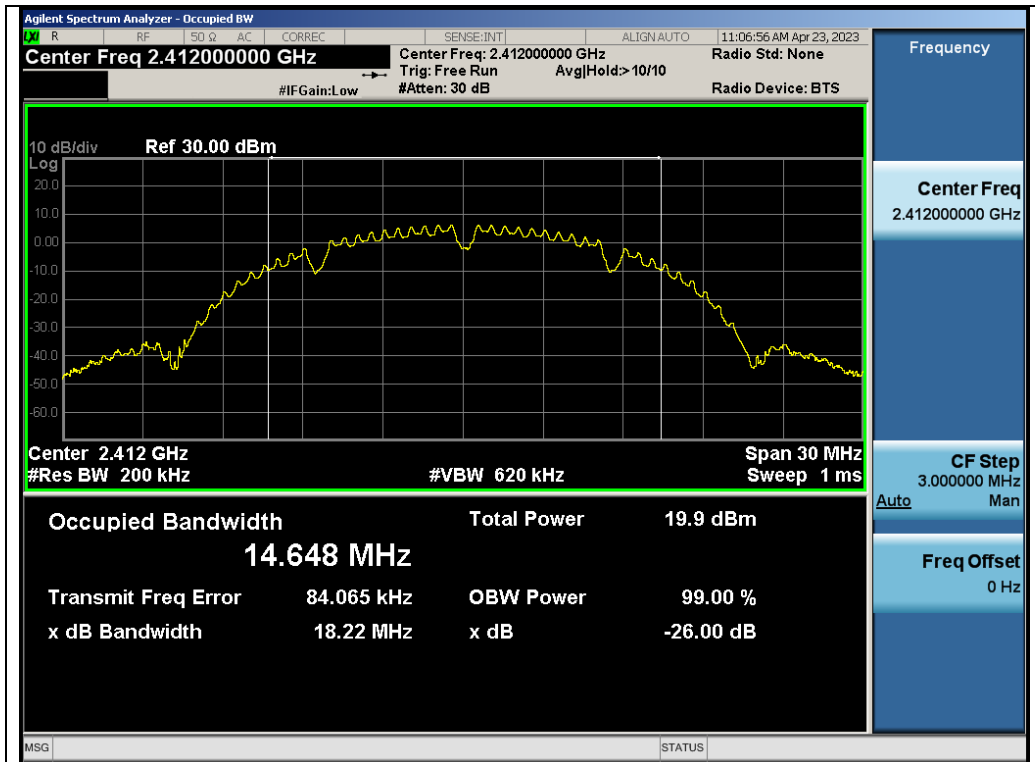


### 8.3. LIMITS AND MEASUREMENT RESULTS

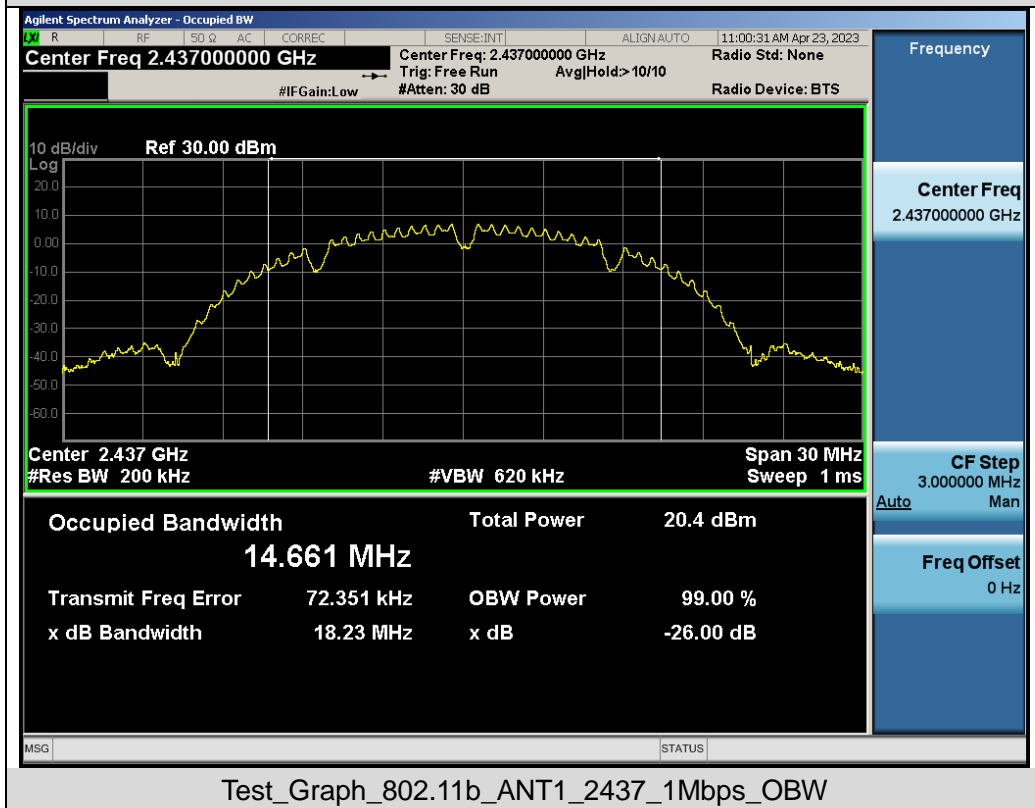
Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11b	2412	14.648	10.03	≥0.5	Pass
	2437	14.661	9.079	≥0.5	Pass
	2462	14.673	10.03	≥0.5	Pass
802.11g	2412	16.519	16.31	≥0.5	Pass
	2437	16.504	16.32	≥0.5	Pass
	2462	16.538	16.31	≥0.5	Pass
802.11n20	2412	17.640	17.27	≥0.5	Pass
	2437	17.608	17.53	≥0.5	Pass
	2462	17.576	17.27	≥0.5	Pass
802.11n40	2422	35.689	35.33	≥0.5	Pass
	2437	35.719	35.13	≥0.5	Pass
	2452	35.710	35.10	≥0.5	Pass

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### Test Graphs of Occupied Bandwidth

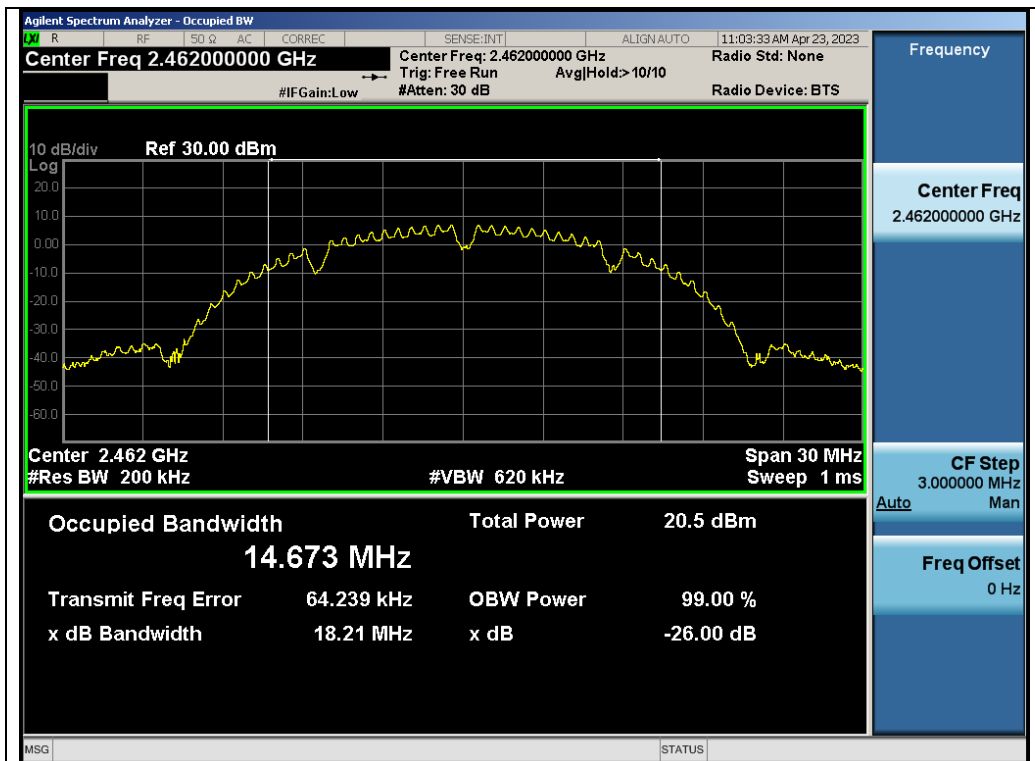


Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_OBW

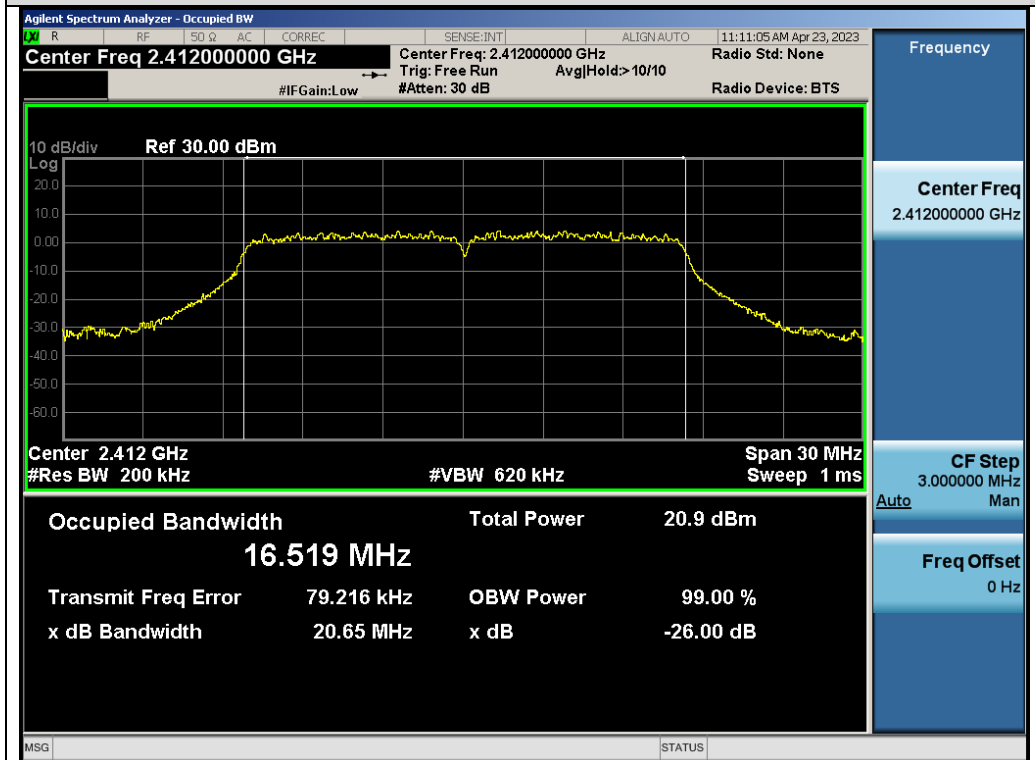


Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_OBW

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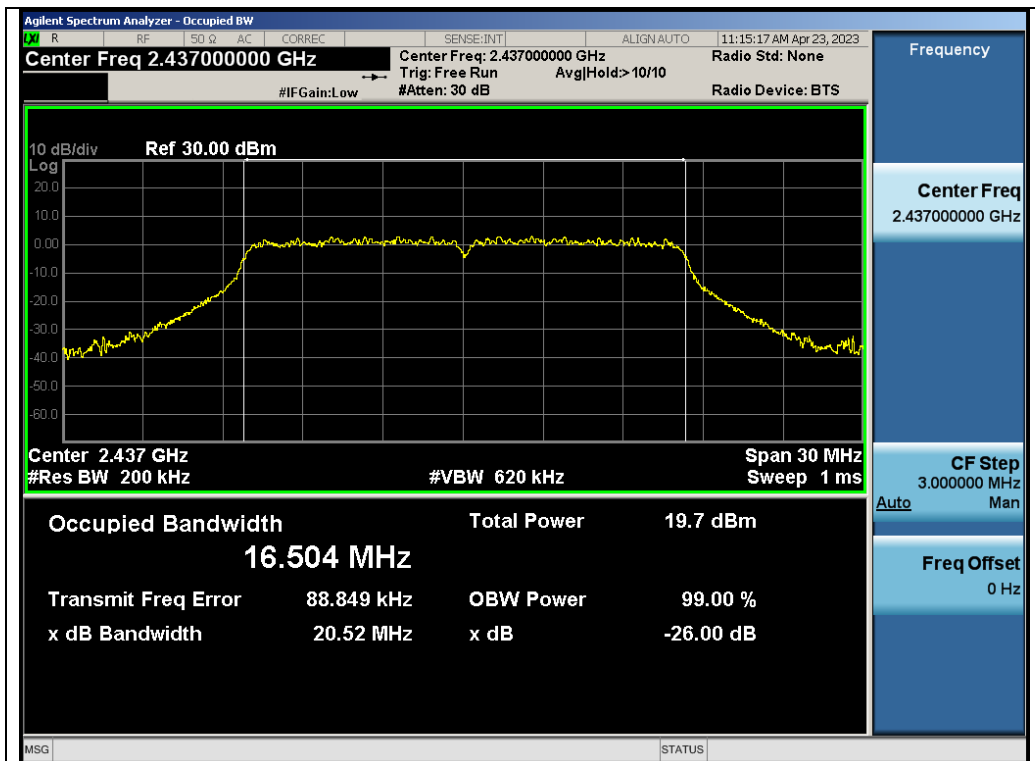


Test\_Graph\_802.11b\_ANT1\_2462\_1Mbps\_OBW

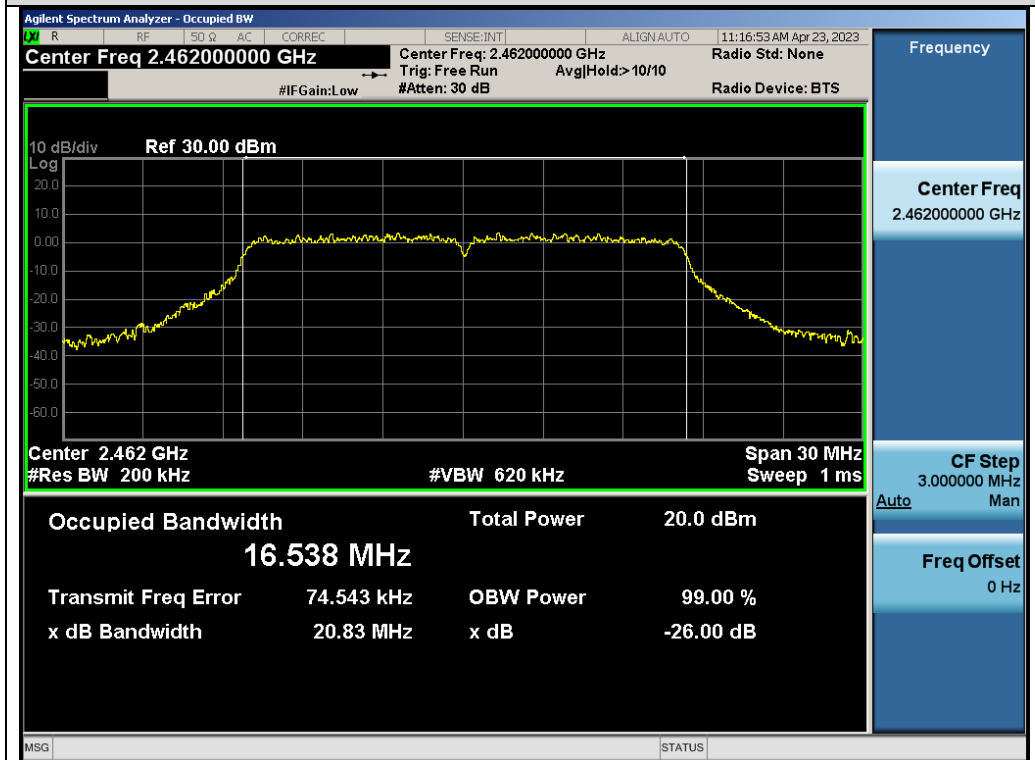


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_OBW

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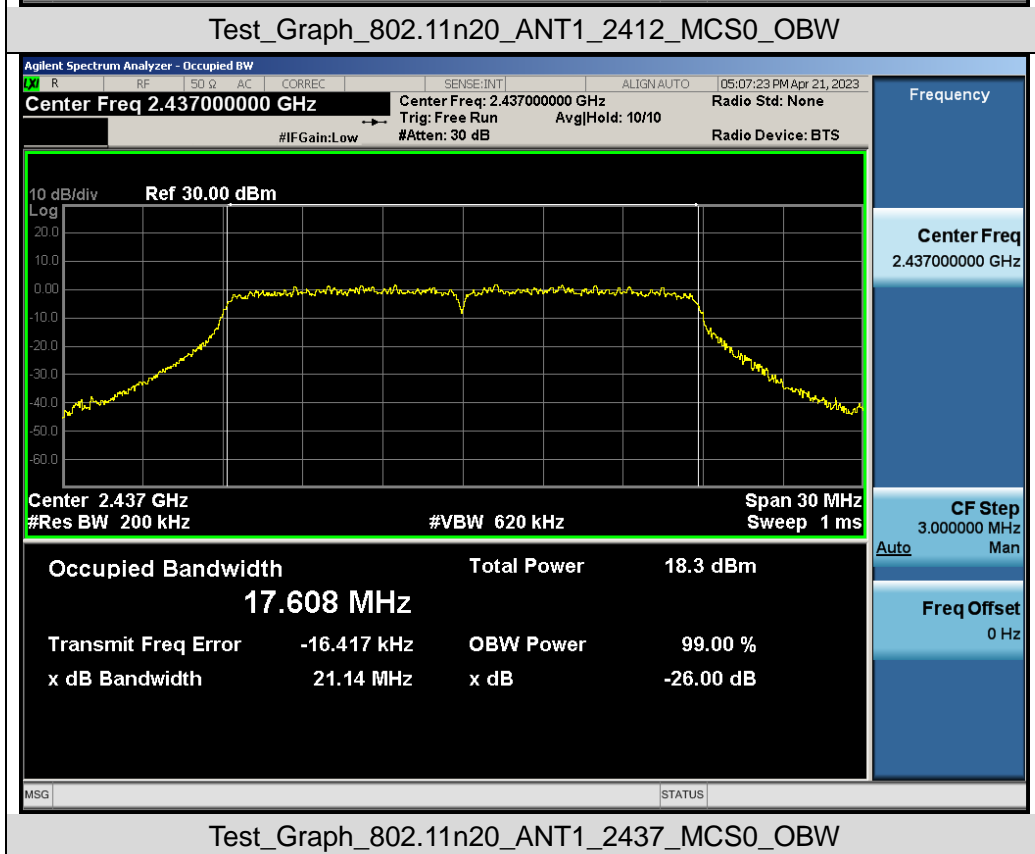
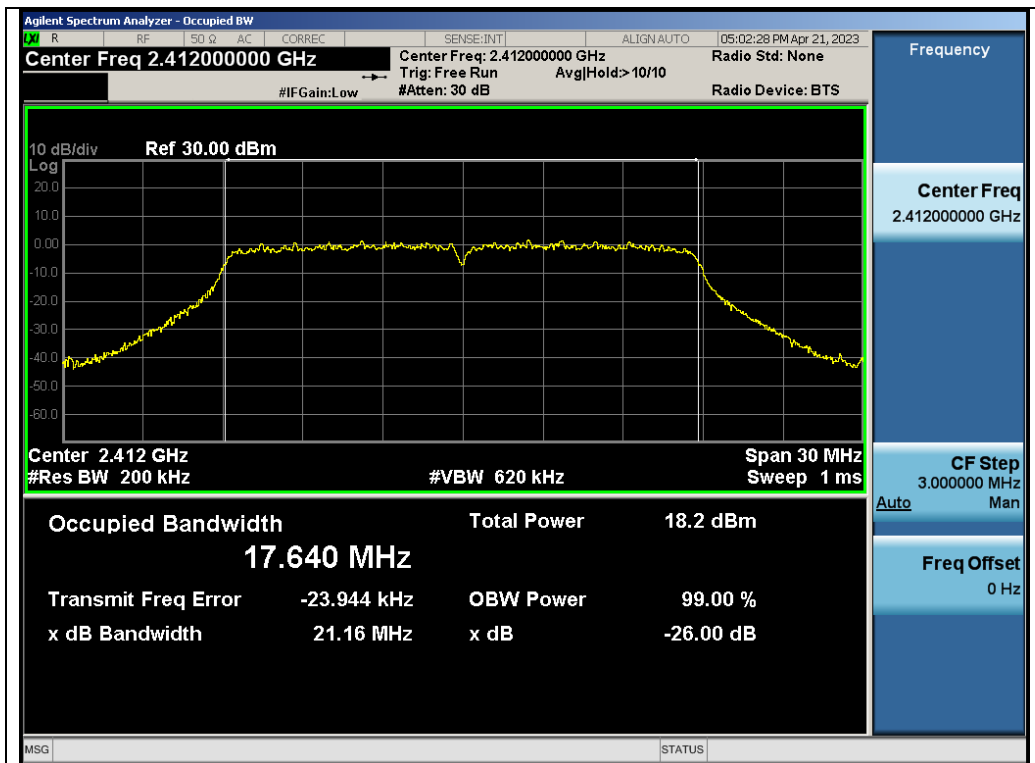


Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_OBW

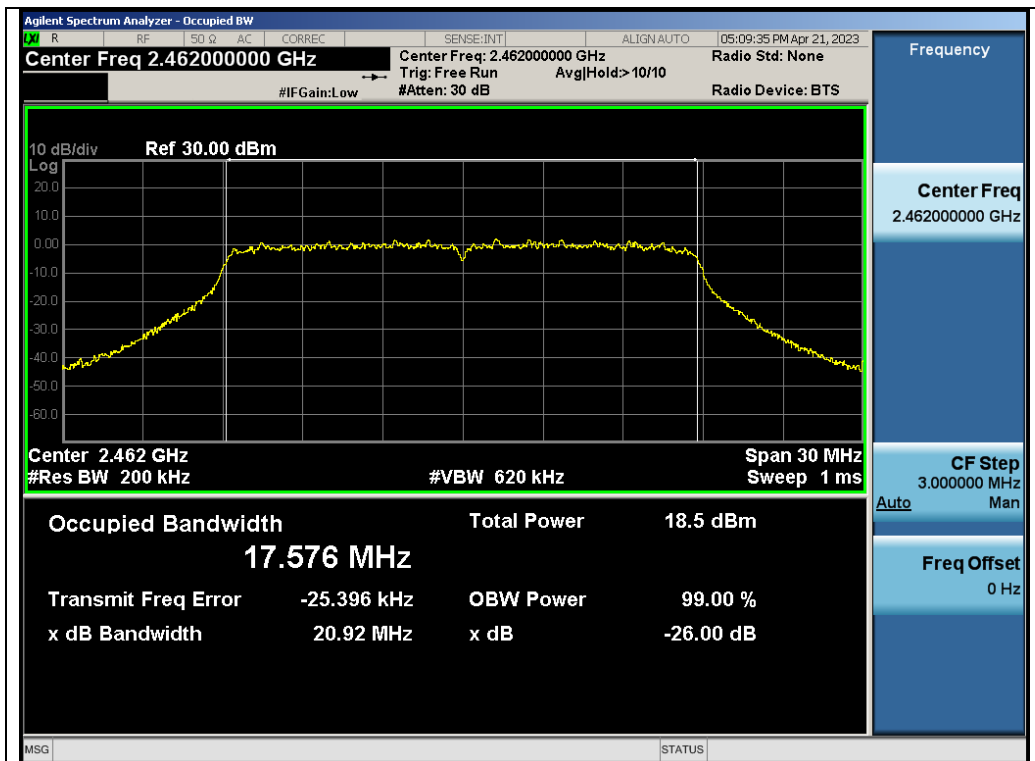


Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_OBW

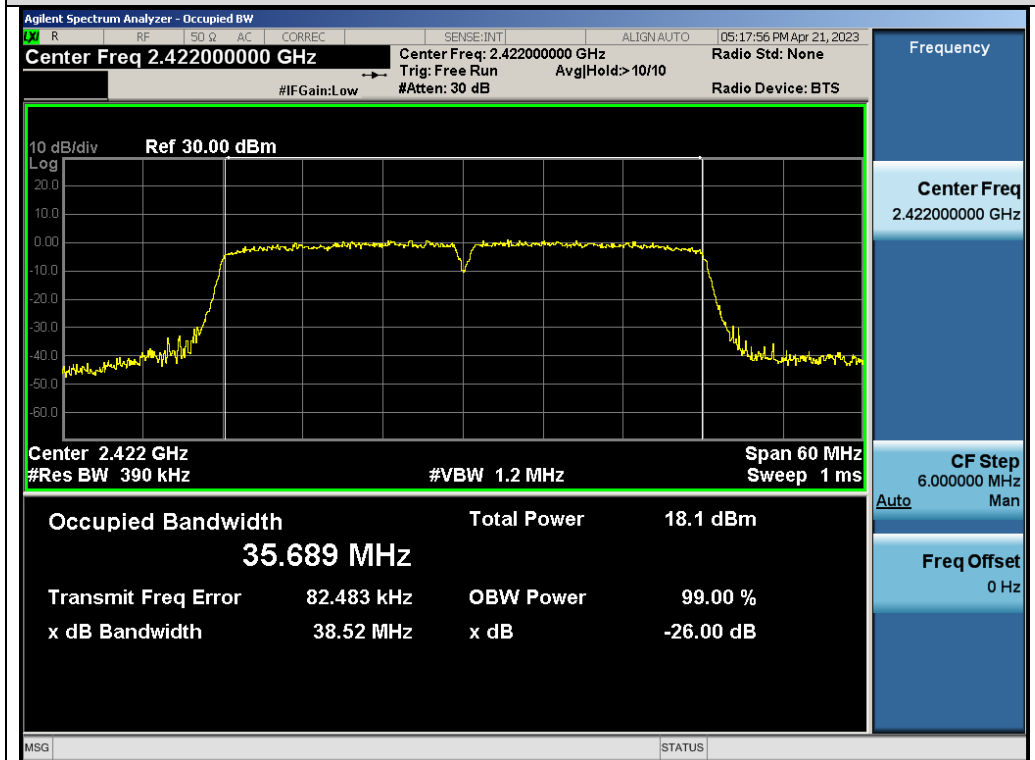
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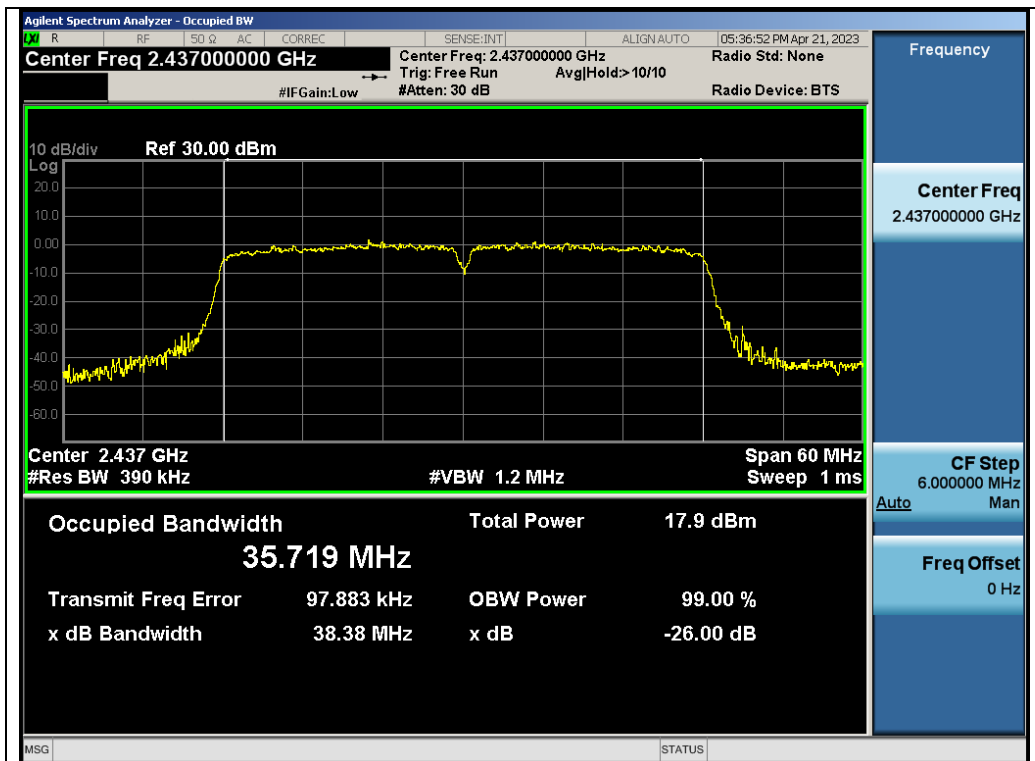


Test\_Graph\_802.11n20\_ANT1\_2462\_MCS0\_OBW

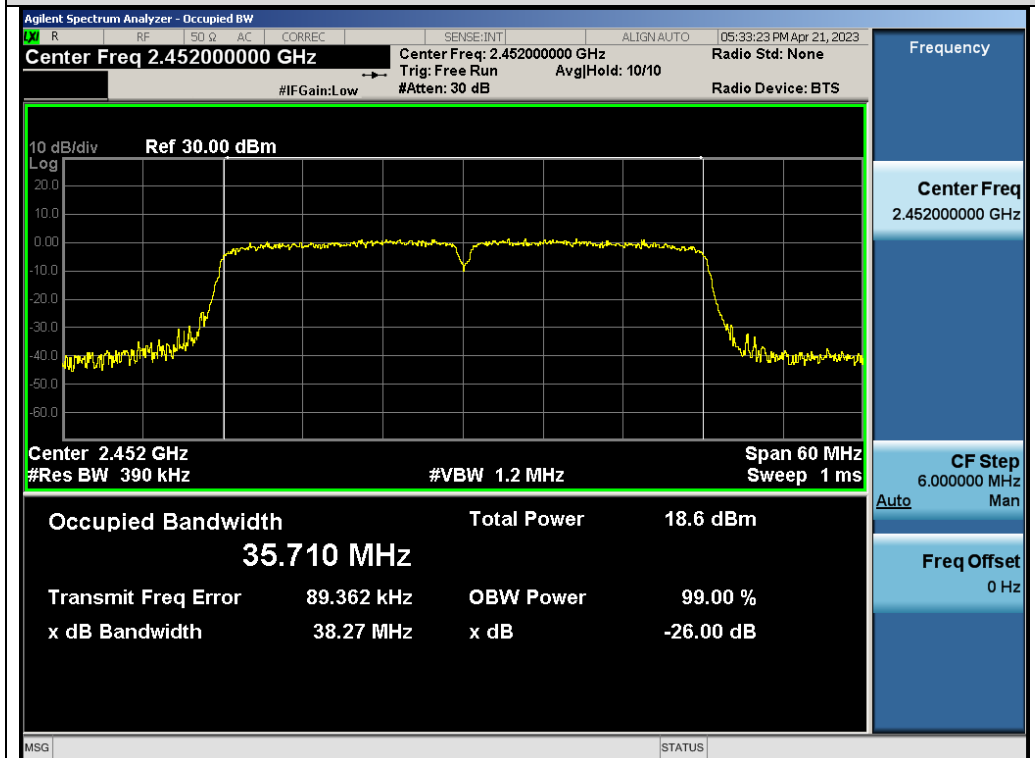


Test\_Graph\_802.11n40\_ANT1\_2422\_MCS0\_OBW

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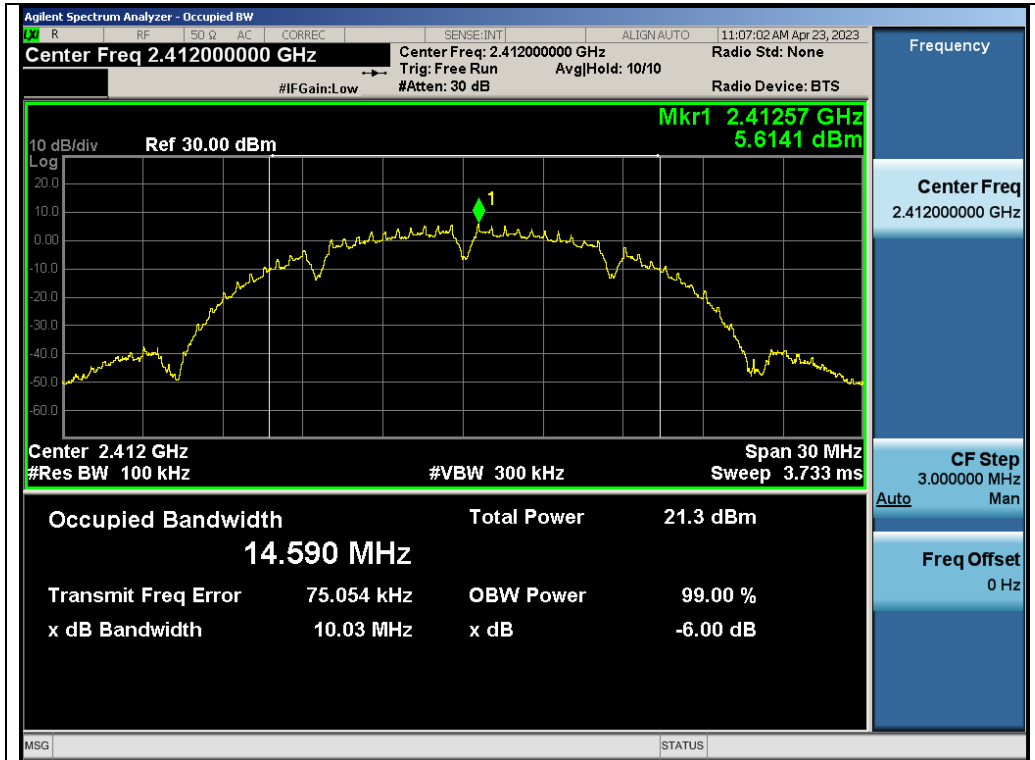
Test\_Graph\_802.11n40\_ANT1\_2437\_MCS0\_OBW



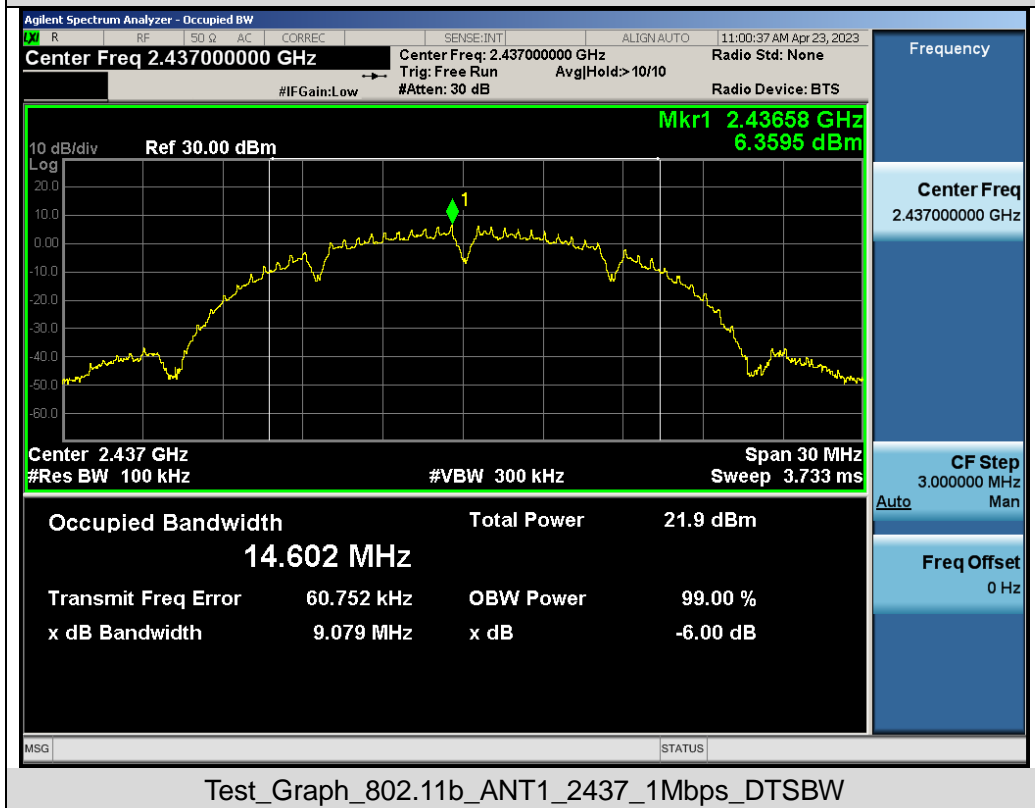
Test\_Graph\_802.11n40\_ANT1\_2452\_MCS0\_OBW

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### Test Graphs of DTS Bandwidth



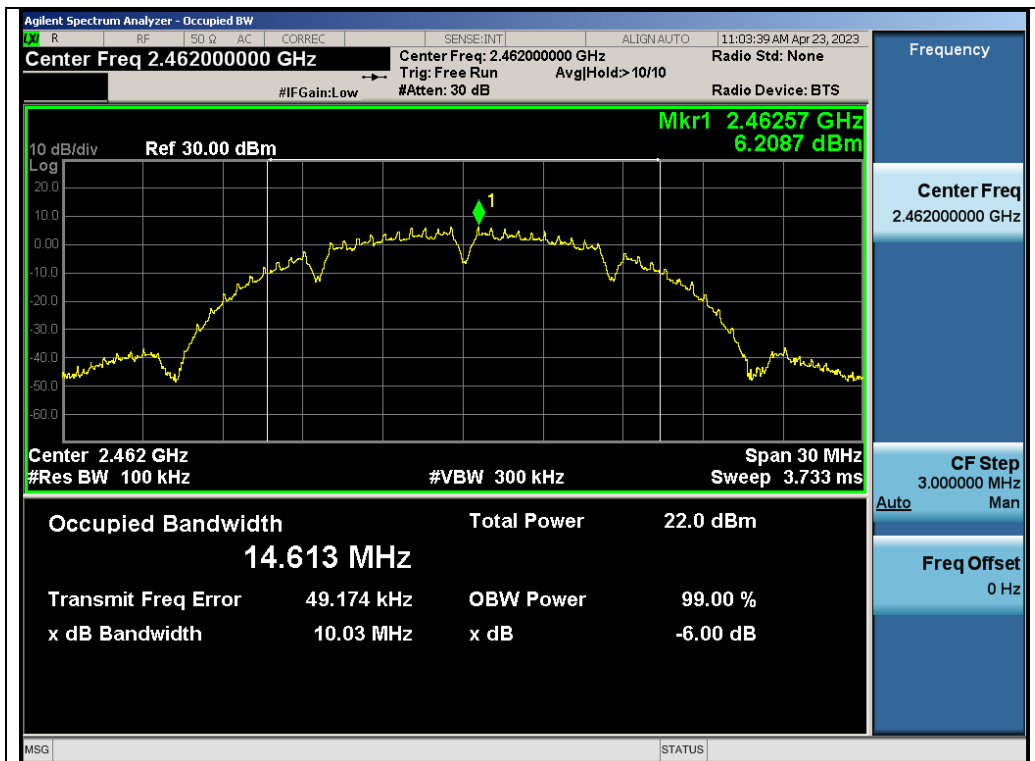
Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_DTBSW



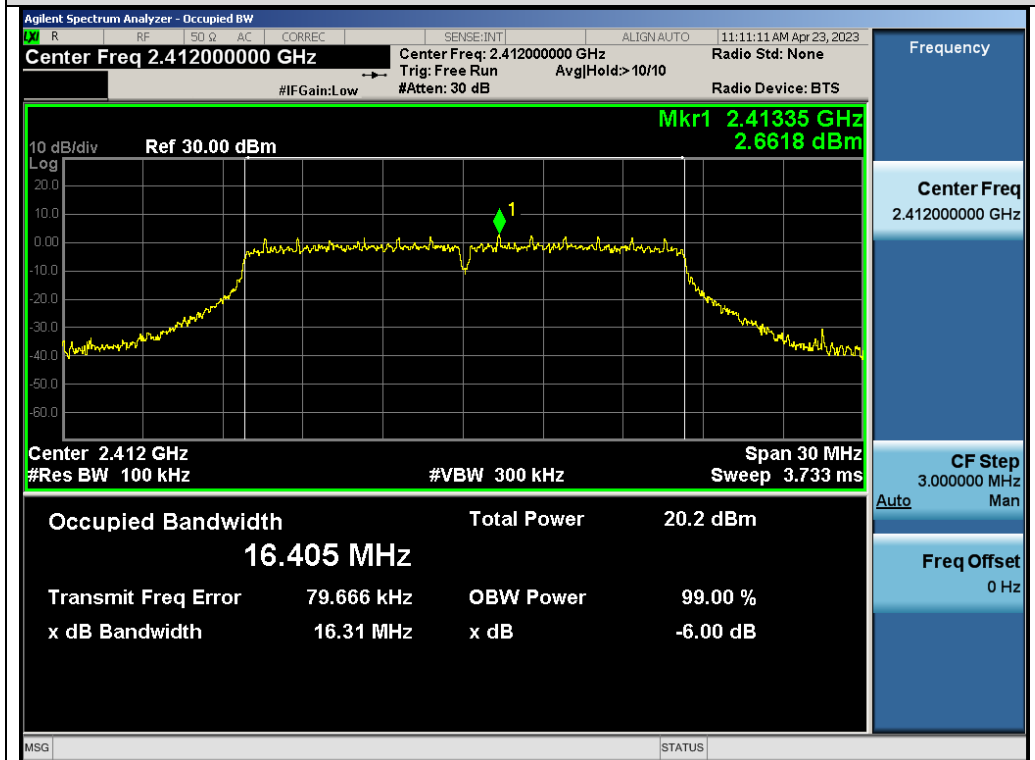
Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_DTBSW

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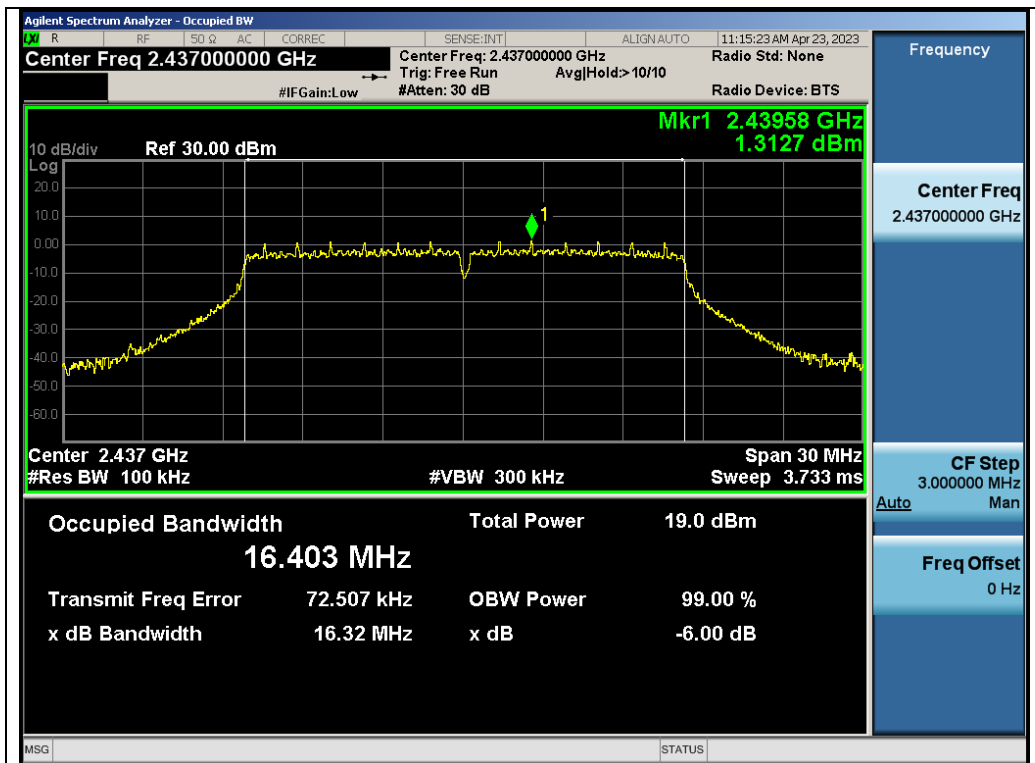


Test\_Graph\_802.11b\_ANT1\_2462\_1Mbps\_DTSSBW

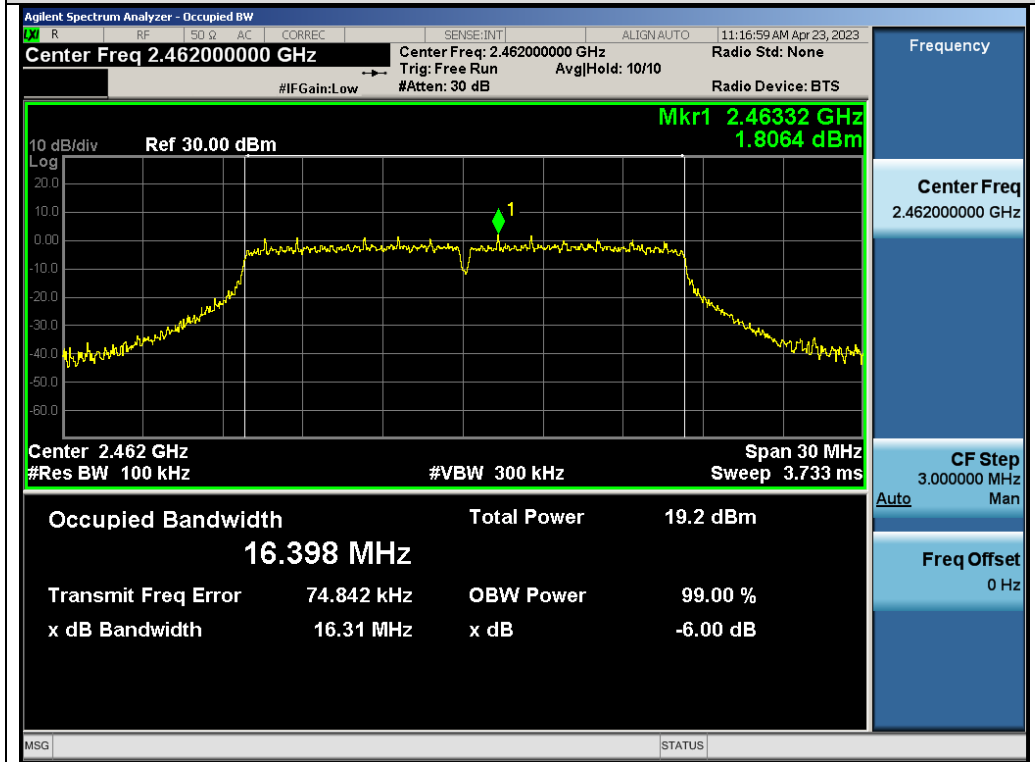


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_DTSSBW

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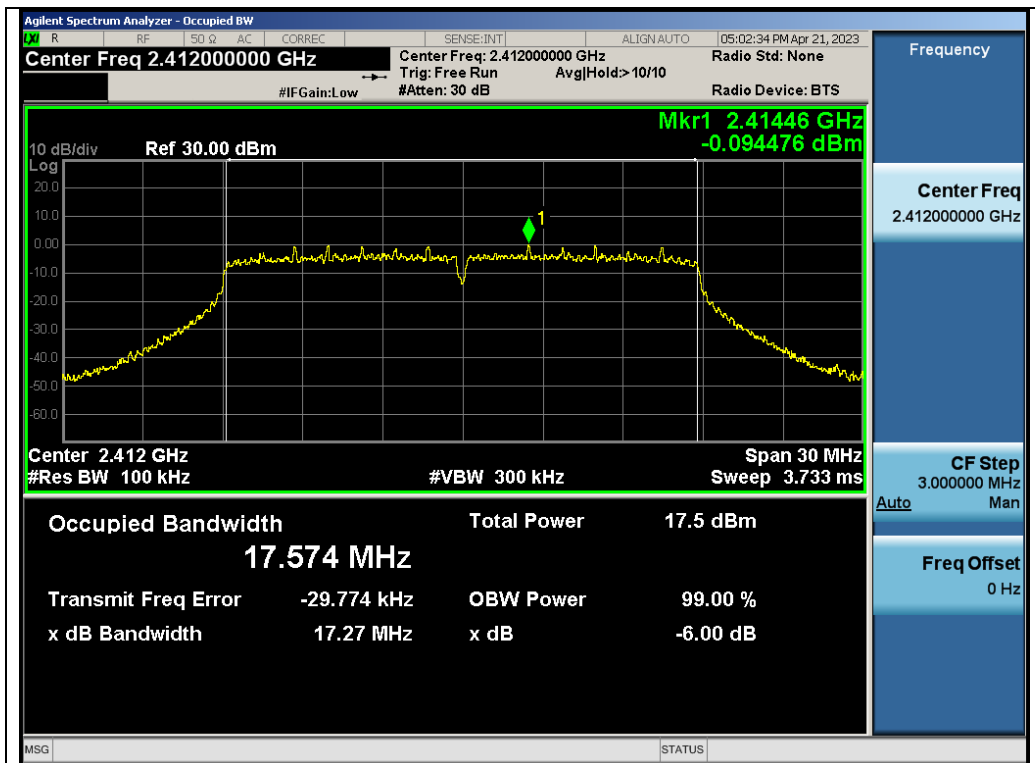


Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_DTSBW

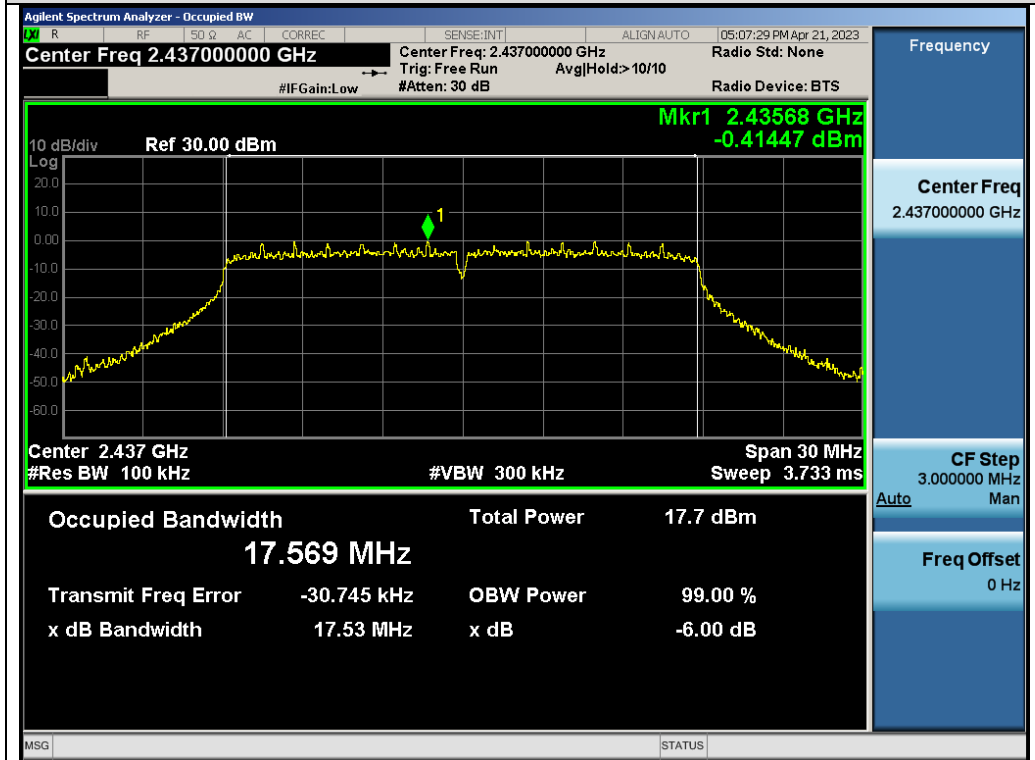


Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_DTSBW

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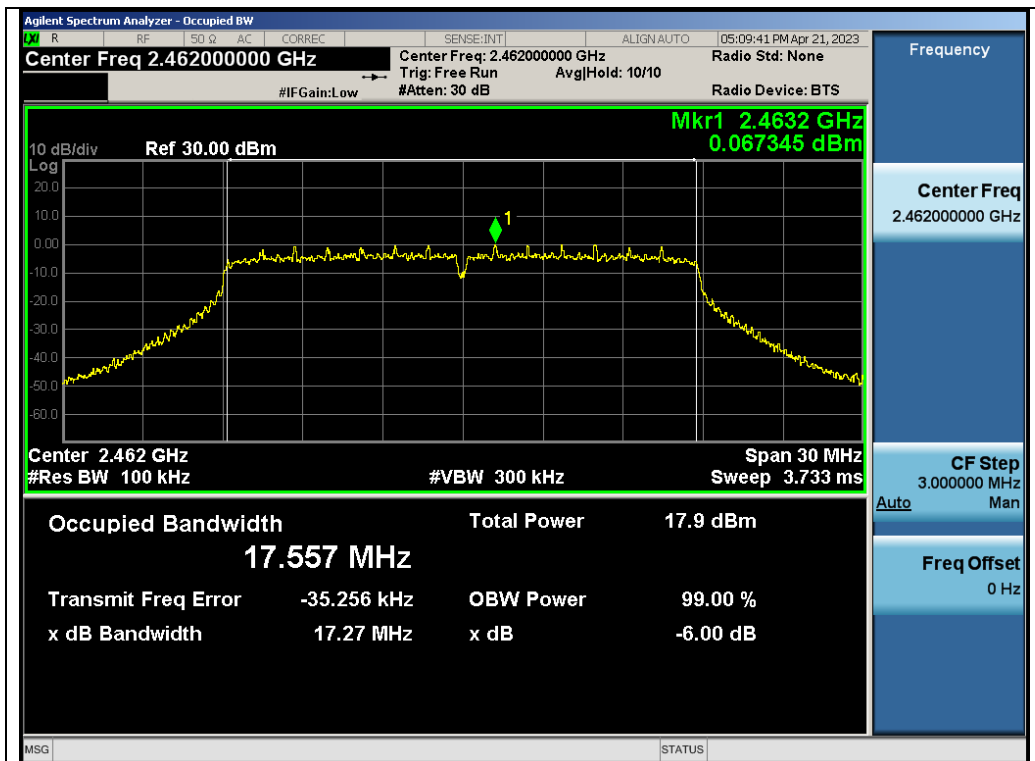


Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_DTSBW

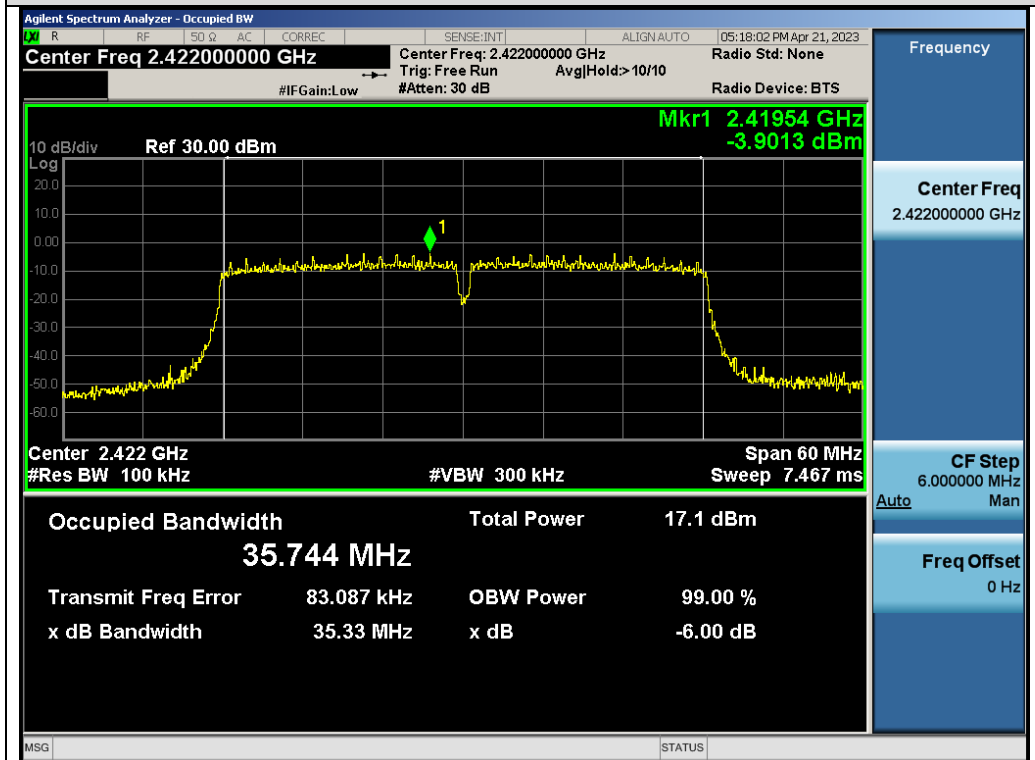


Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_DTSBW

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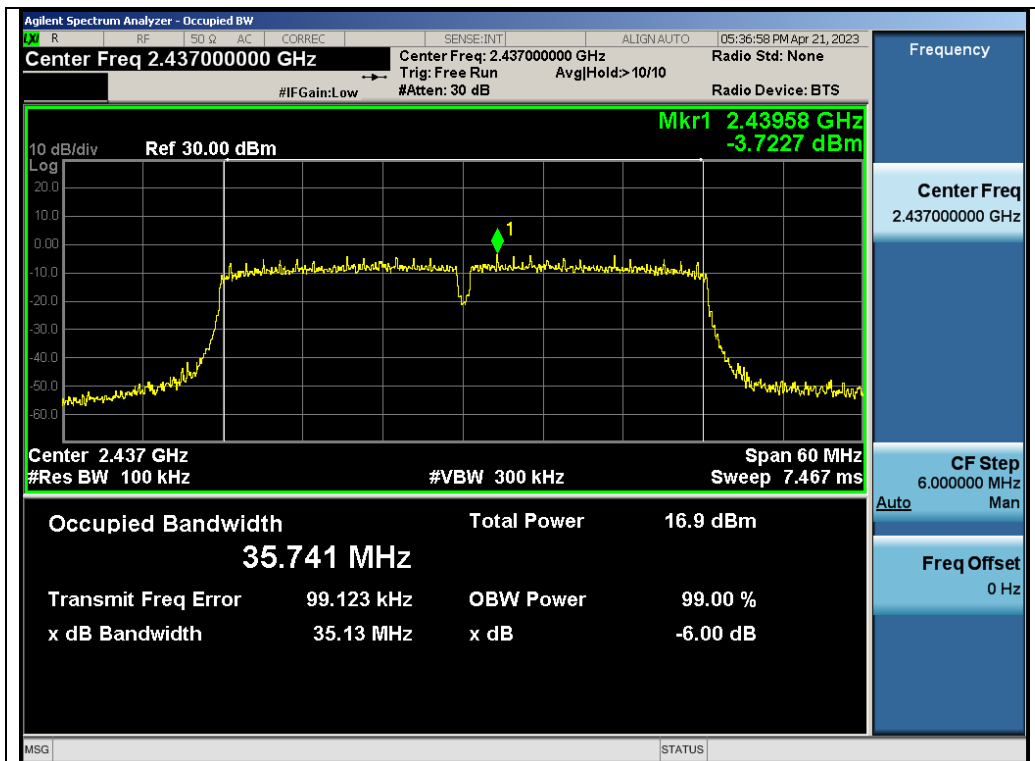


Test\_Graph\_802.11n20\_ANT1\_2462\_MCS0\_DTSBW

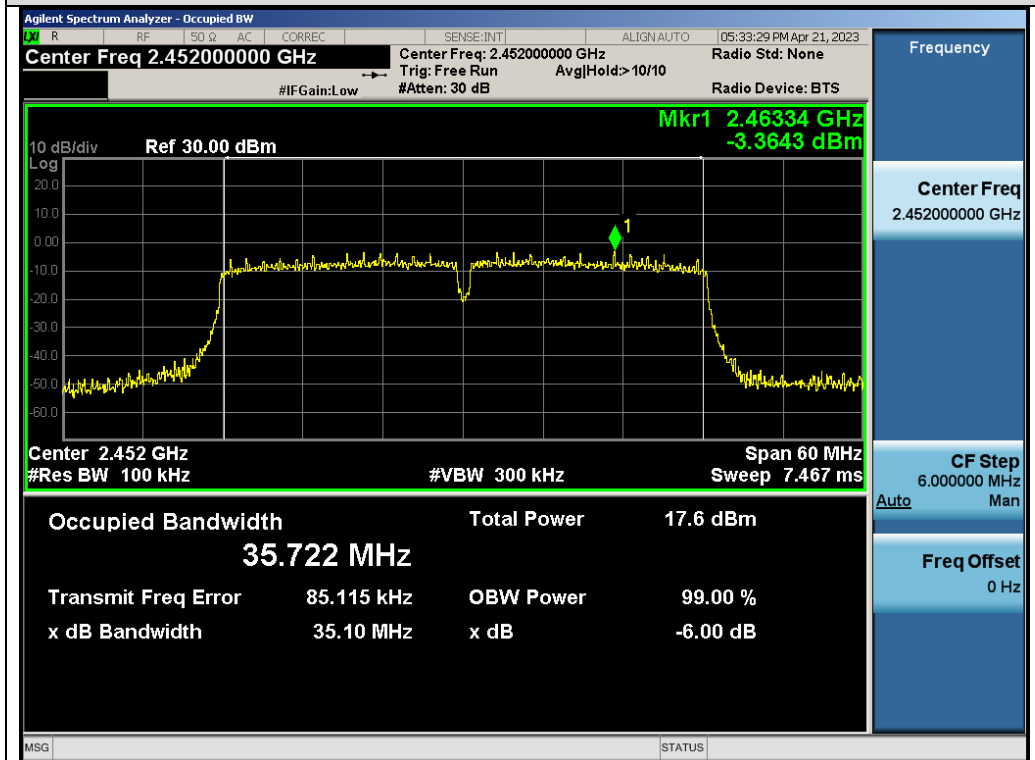


Test\_Graph\_802.11n40\_ANT1\_2422\_MCS0\_DTSBW

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Test\_Graph\_802.11n40\_ANT1\_2437\_MCS0\_DTSBW



Test\_Graph\_802.11n40\_ANT1\_2452\_MCS0\_DTSBW

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## 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

### 9.3. MEASUREMENT EQUIPMENT USED JN

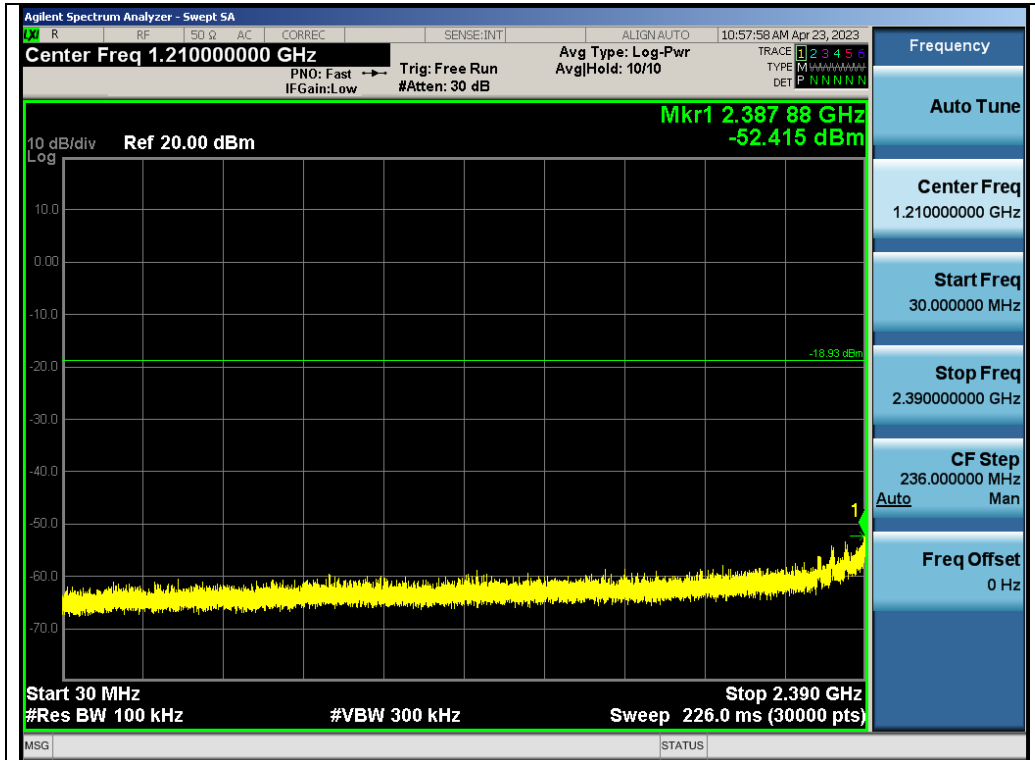
The same as described in section 6.

### 9.4. LIMITS AND MEASUREMENT RESULT

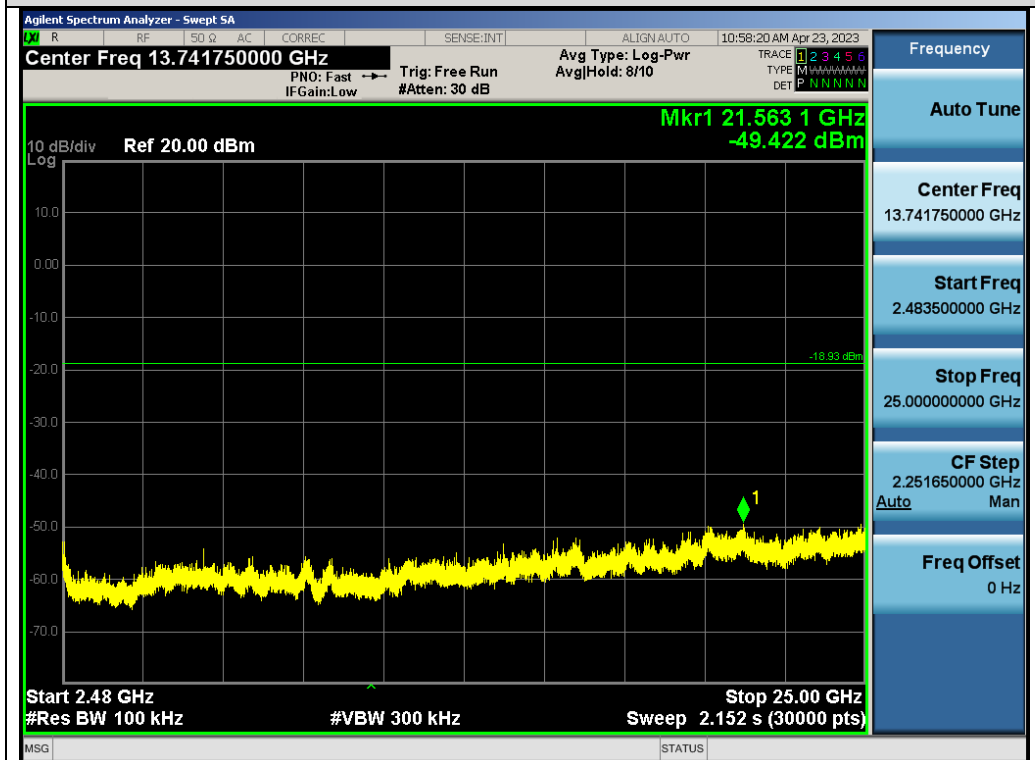
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below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

Note: The limits reference level is according to the test plot of -6dB bandwidth.

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

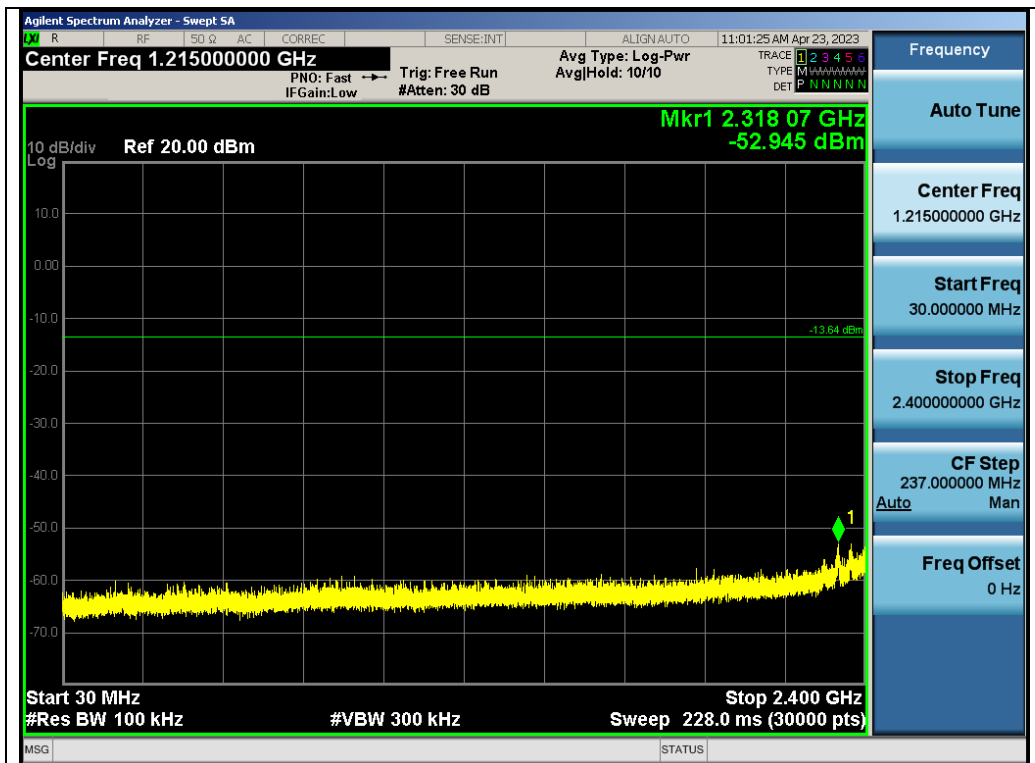


Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Lower Band Emissions

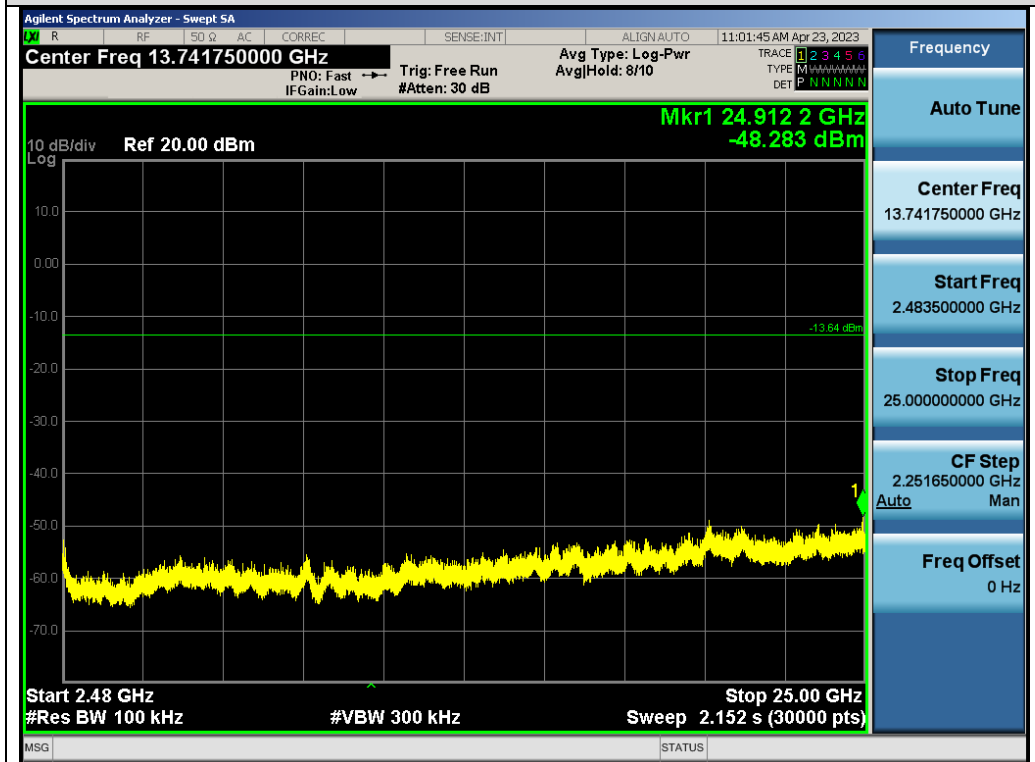


Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Higher Band Emissions

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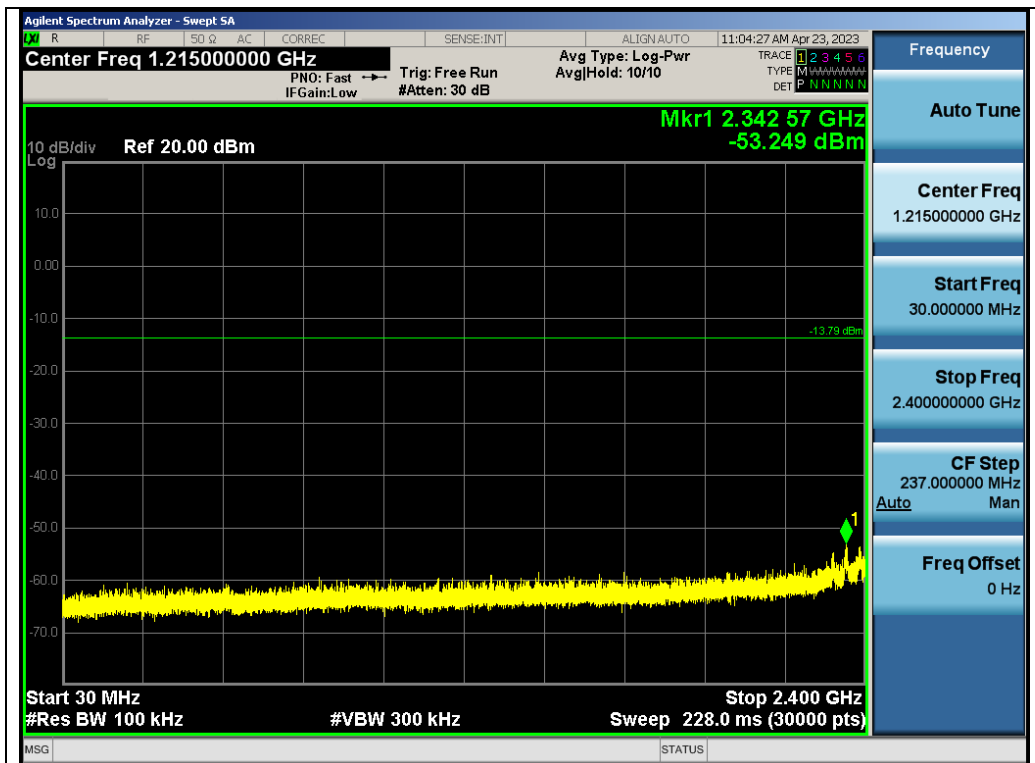
Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_Lower Band Emissions



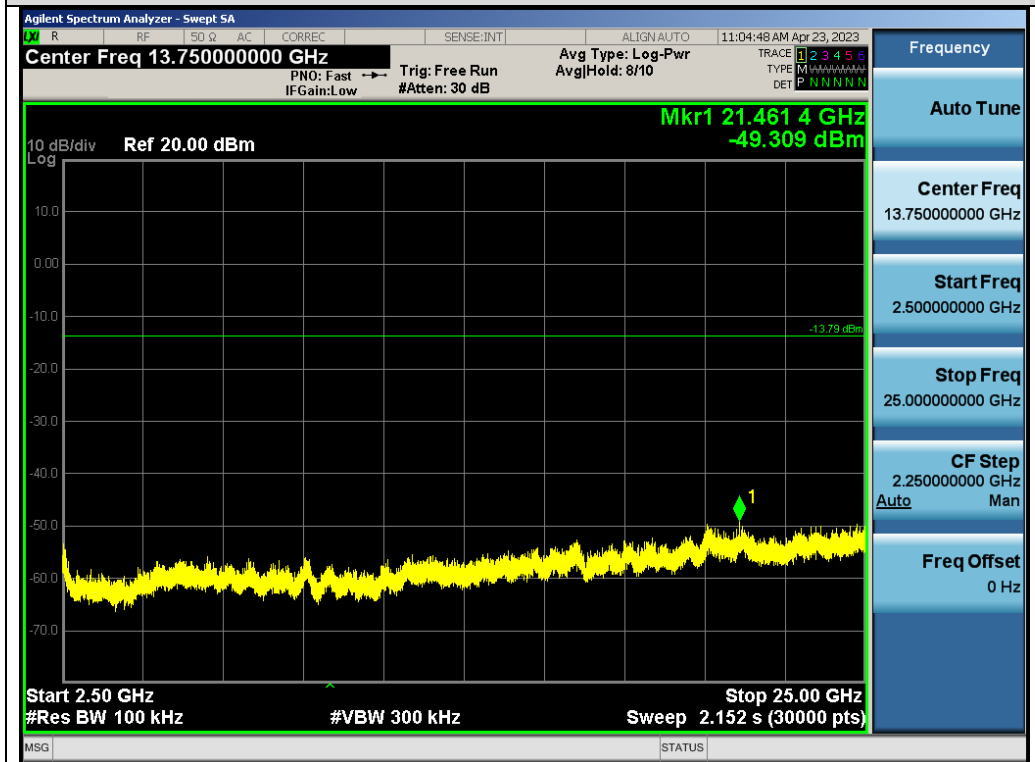
Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_Higher Band Emissions

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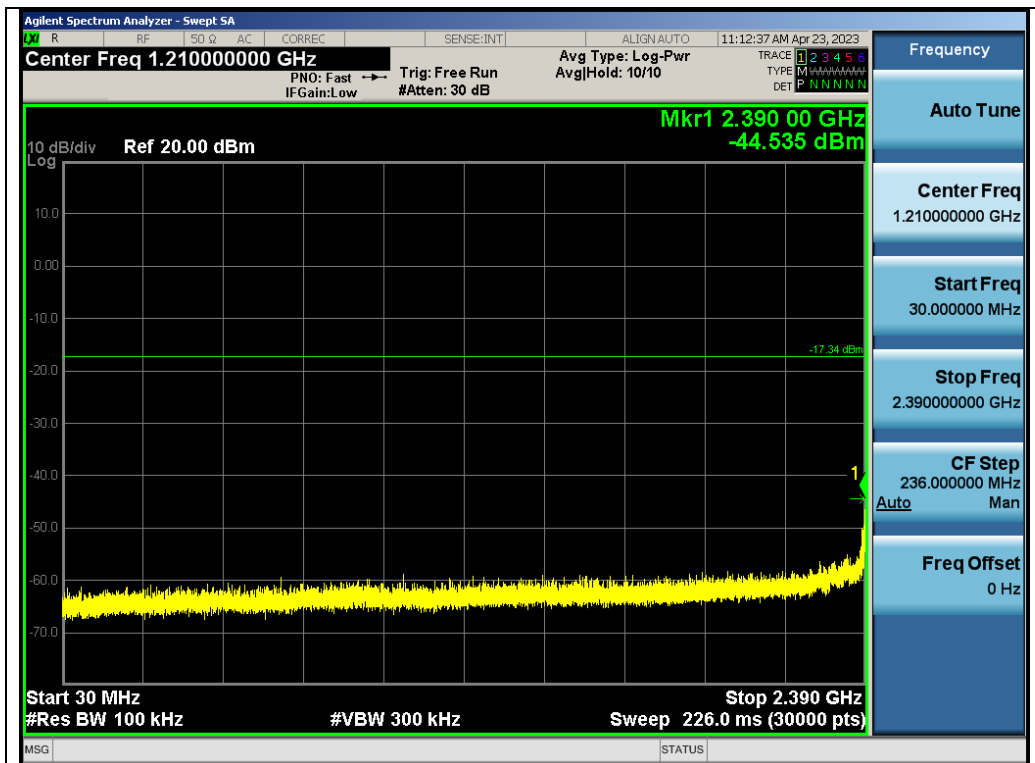


Test\_Graph\_802.11b\_ANT1\_2462\_1Mbps\_Lower Band Emissions

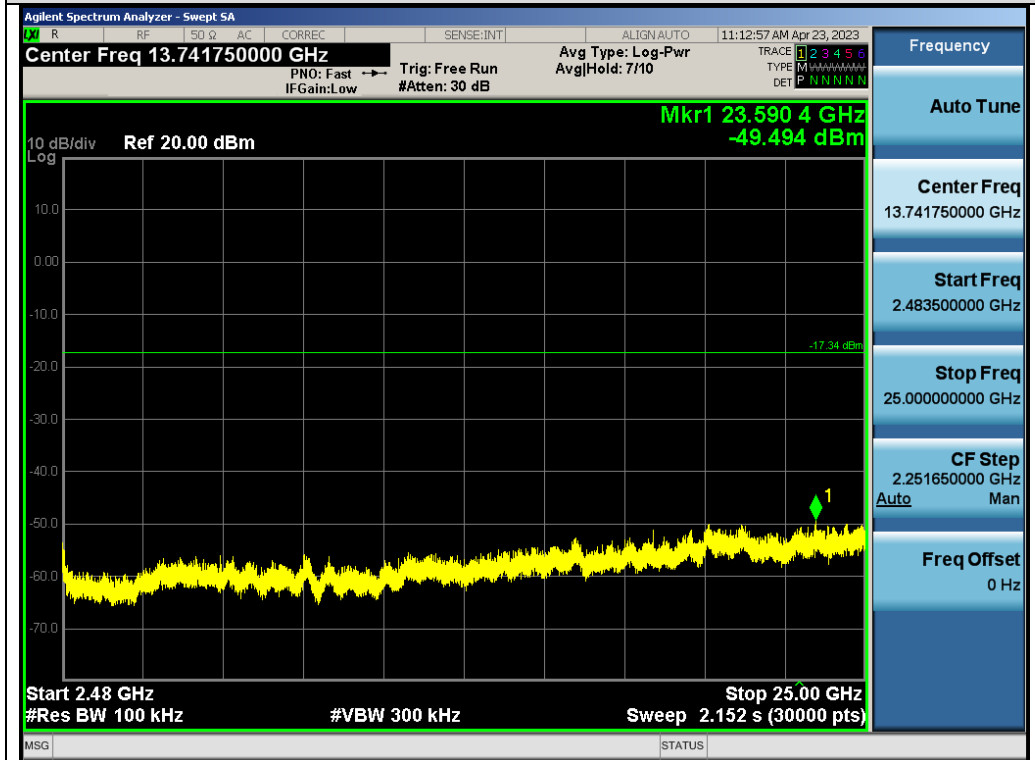


Test\_Graph\_802.11b\_ANT1\_2462\_1Mbps\_Higher Band Emissions

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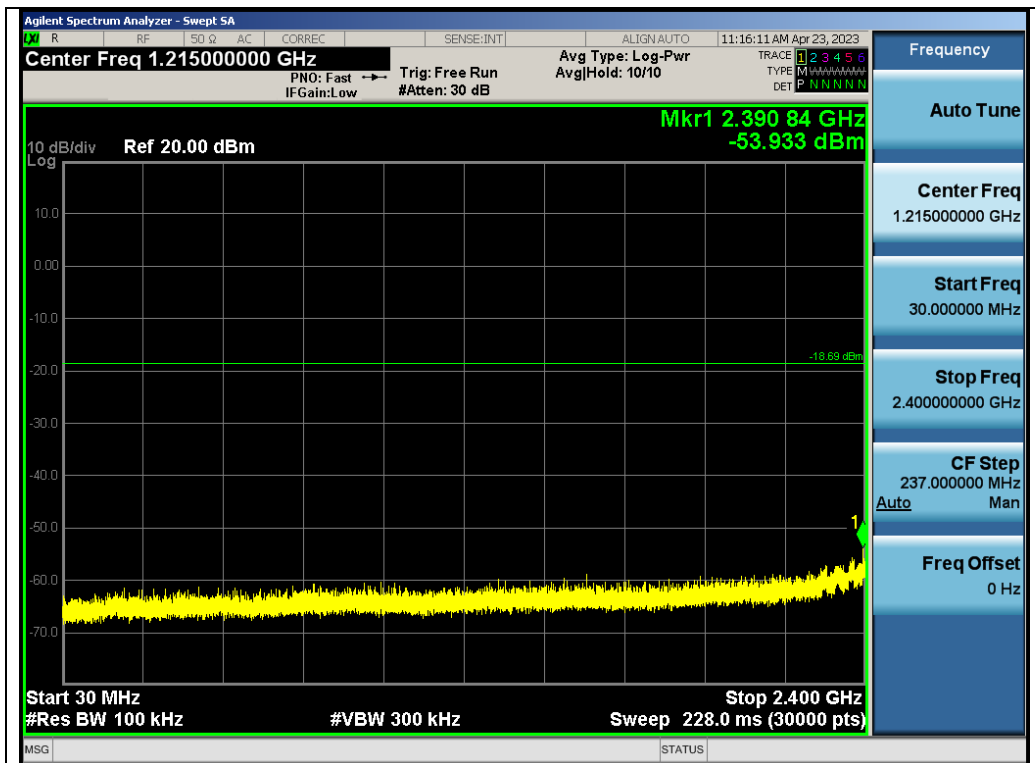


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_Lower Band Emissions

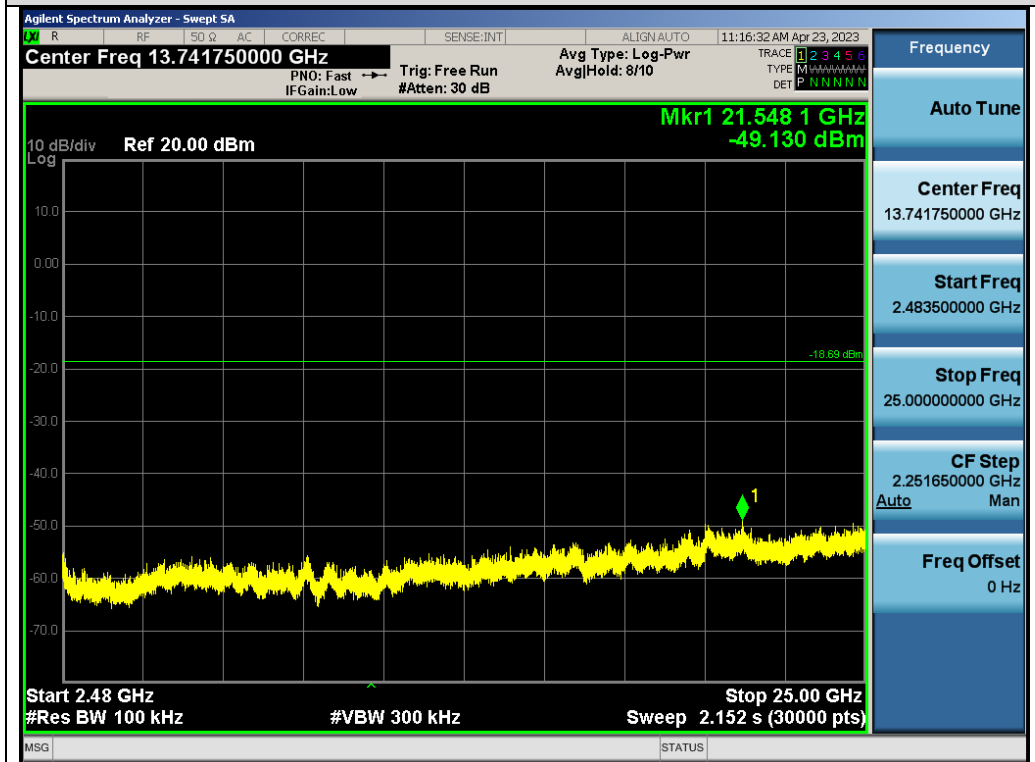


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_Higher Band Emissions

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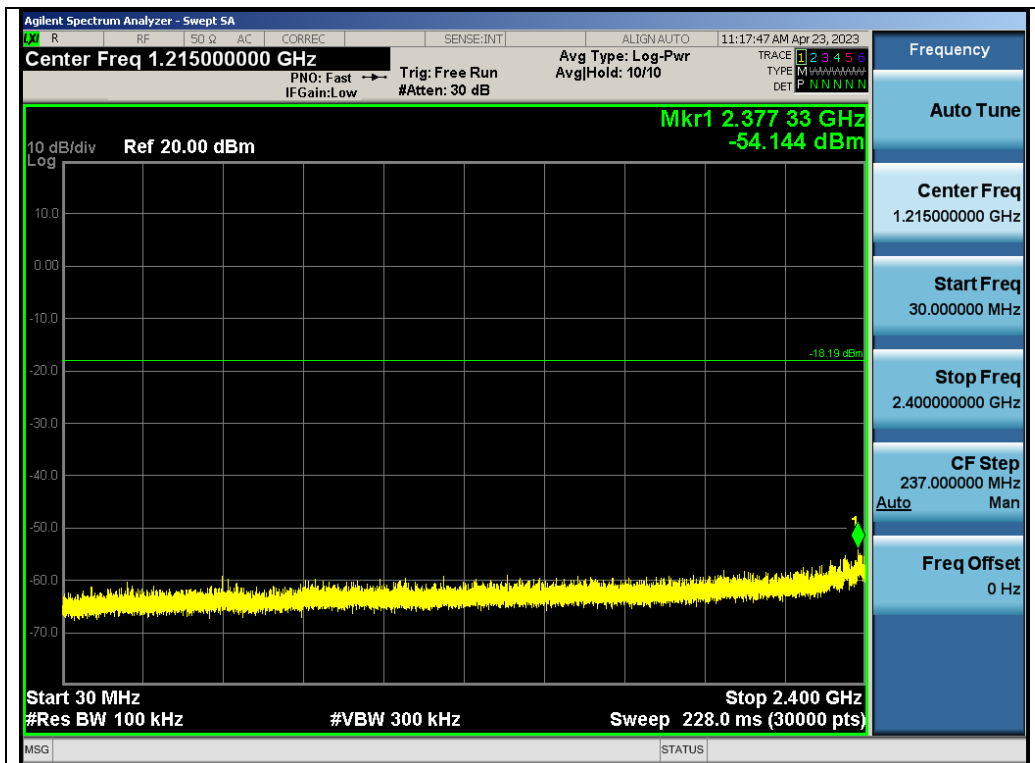


Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_Lower Band Emissions

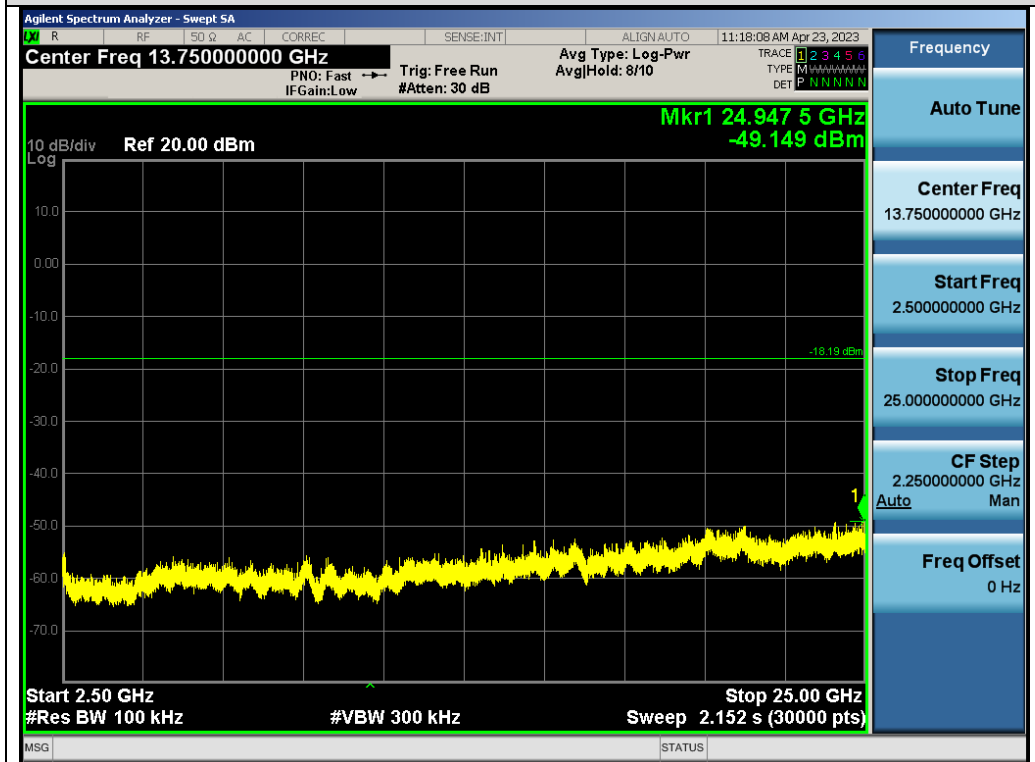


Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_Higher Band Emissions

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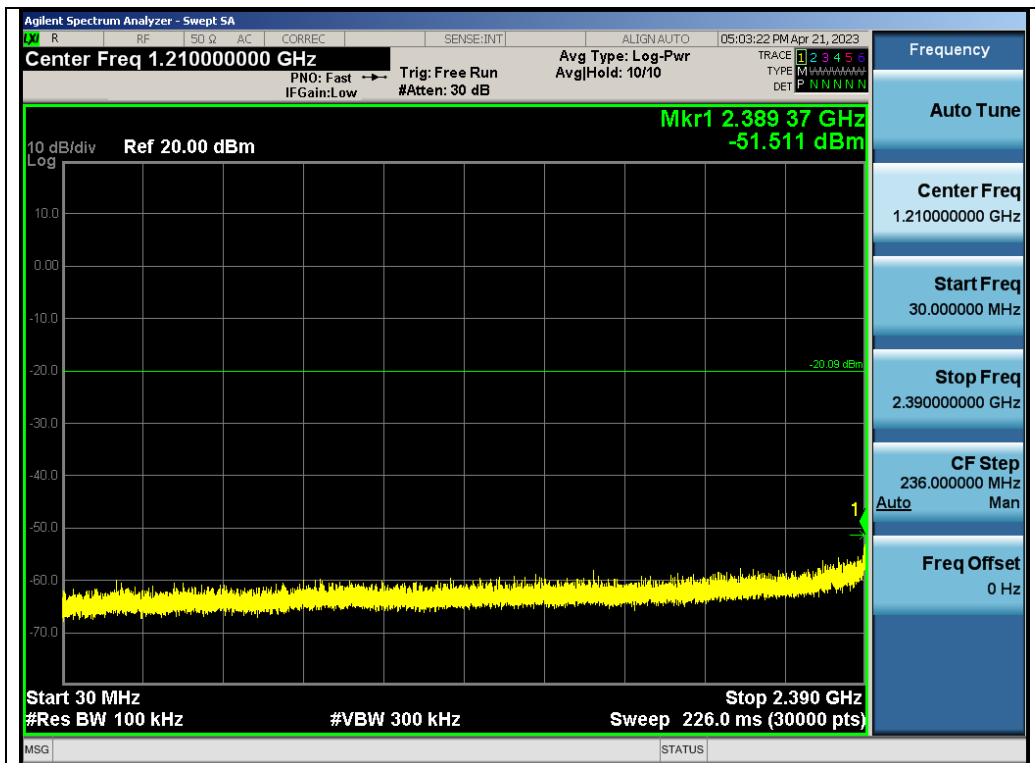


Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_Lower Band Emissions

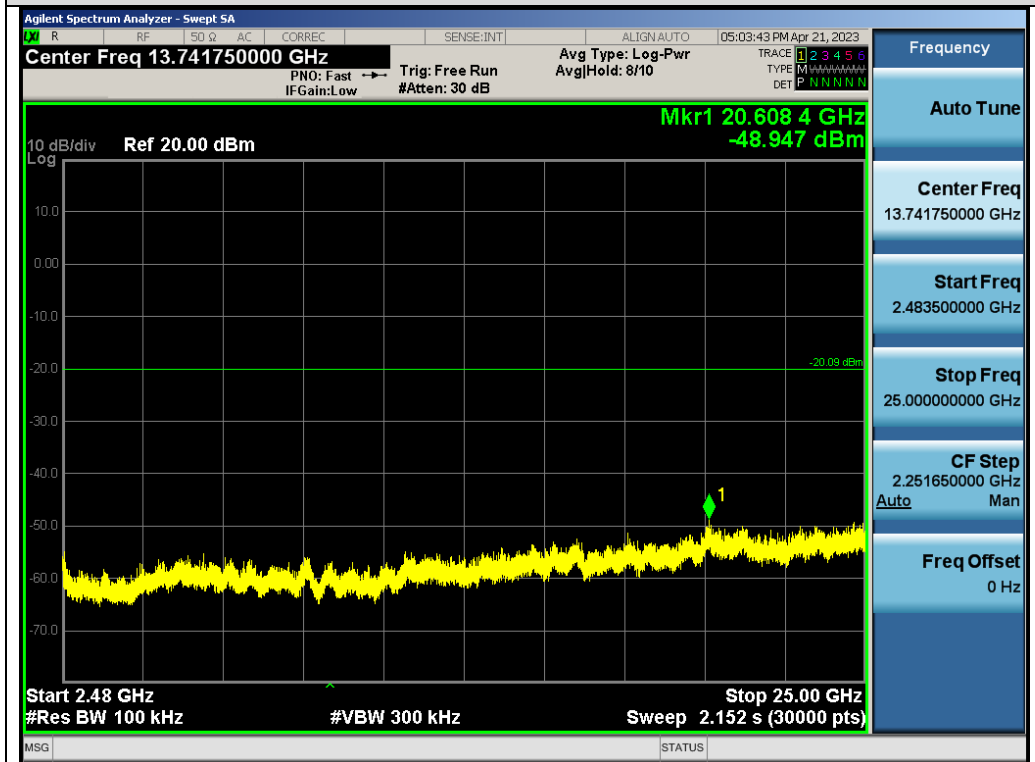


Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_Higher Band Emissions

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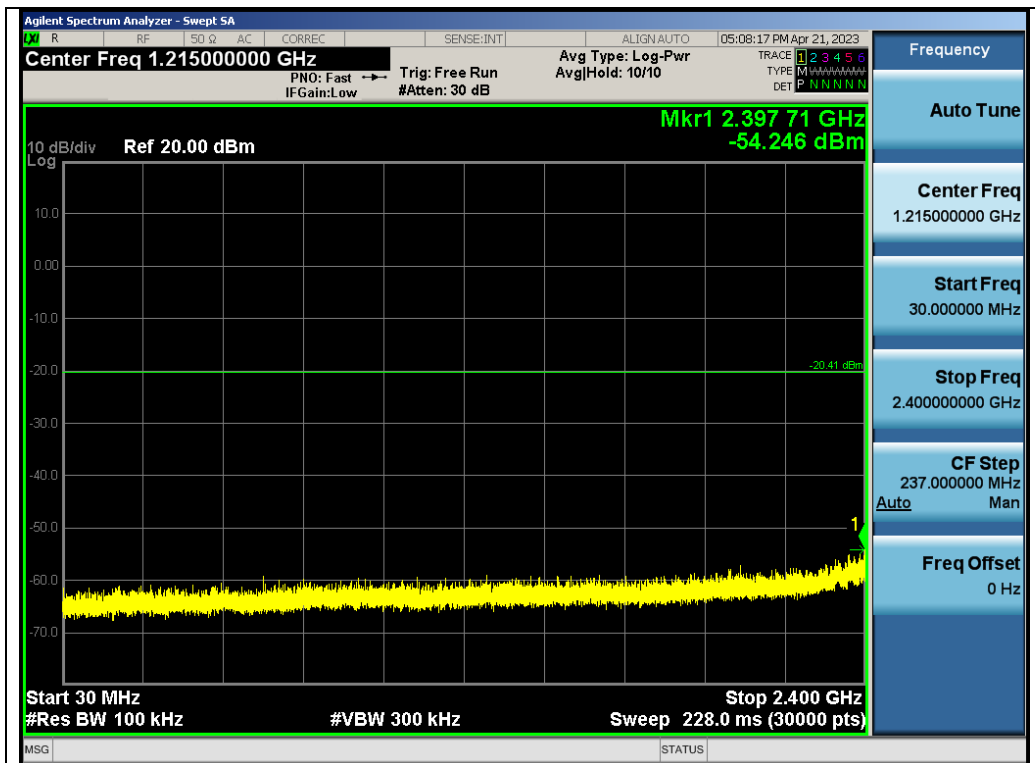


Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_Lower Band Emissions

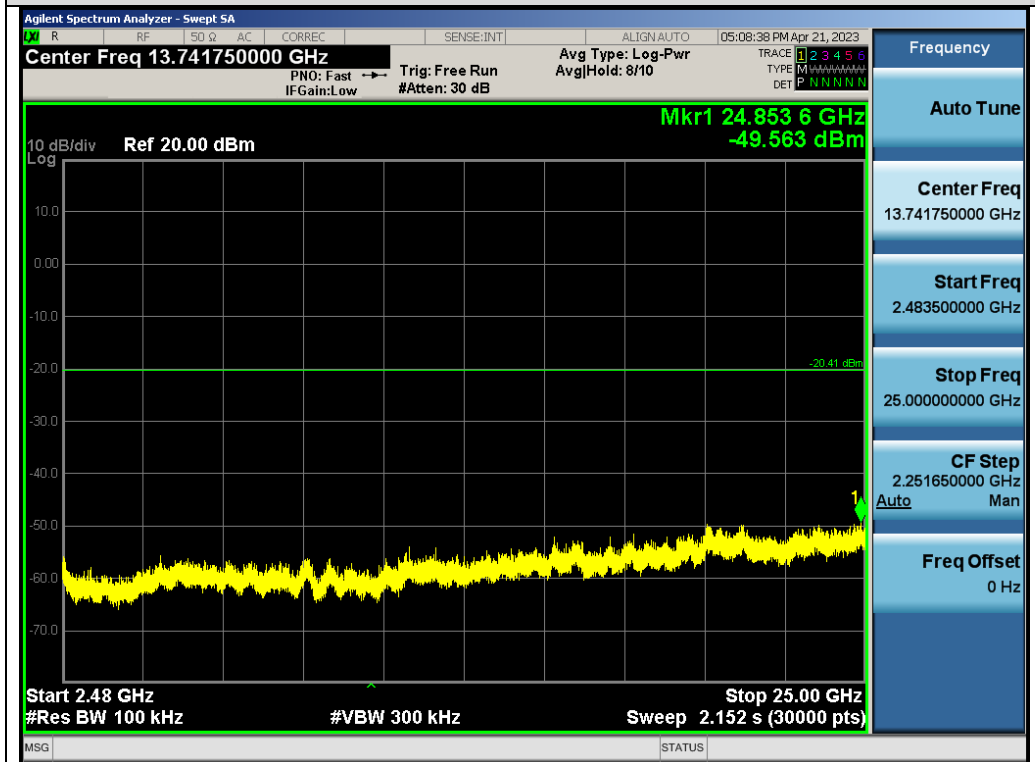


Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_Higher Band Emissions

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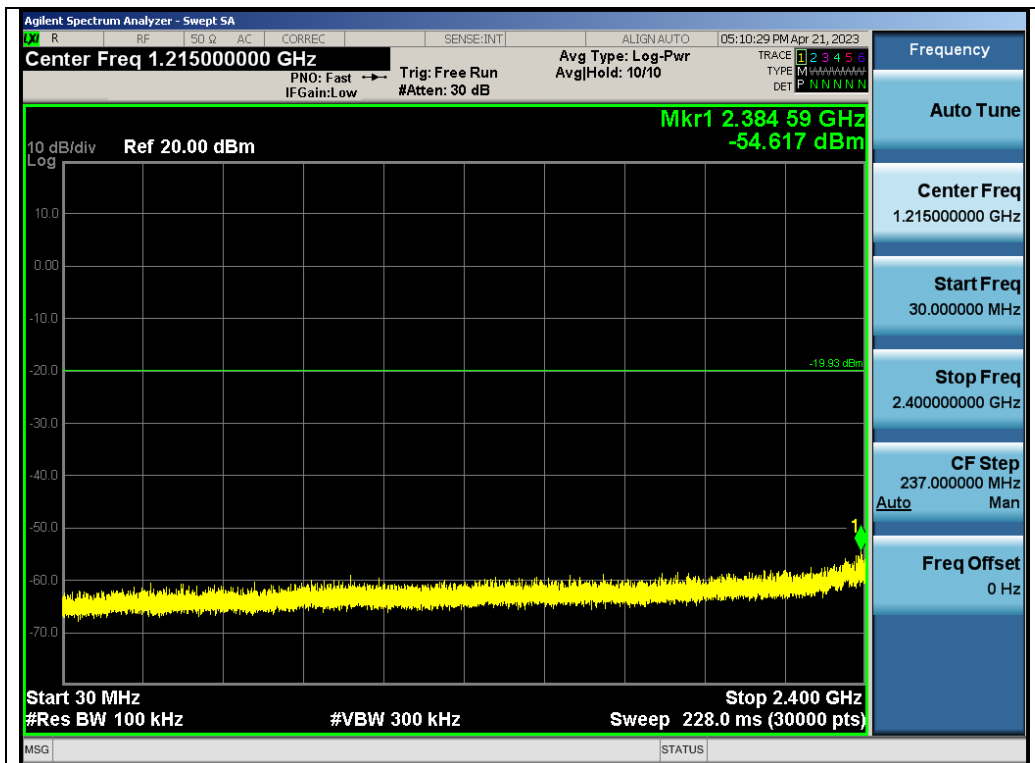


Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_Lower Band Emissions

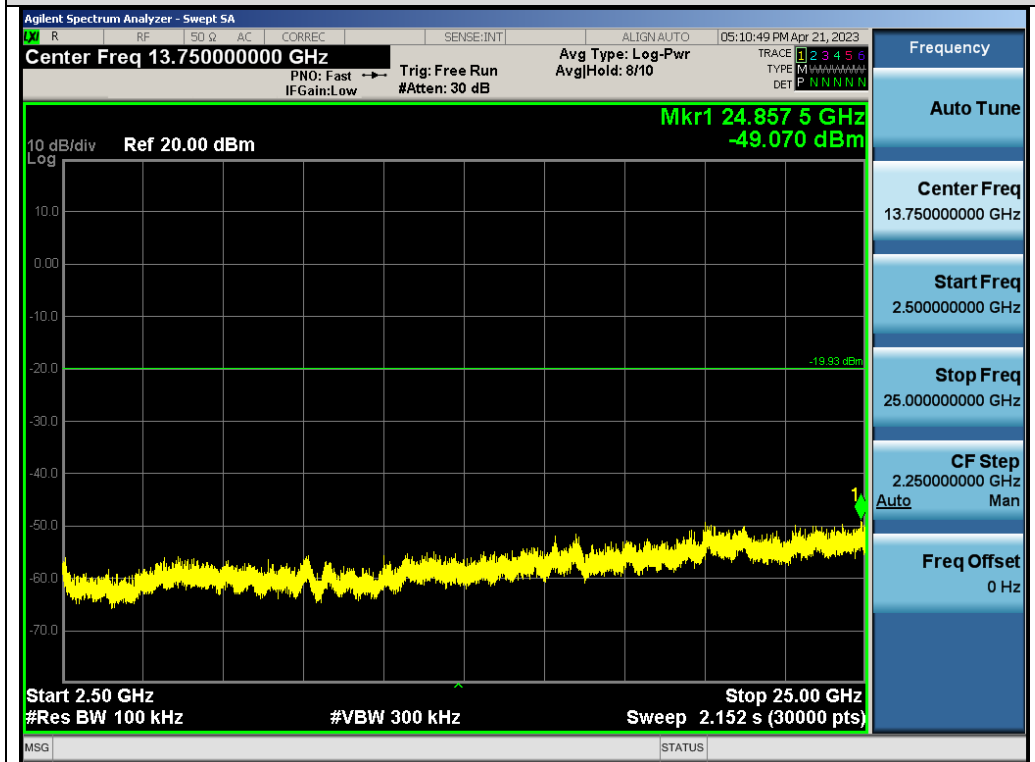


Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_Higher Band Emissions

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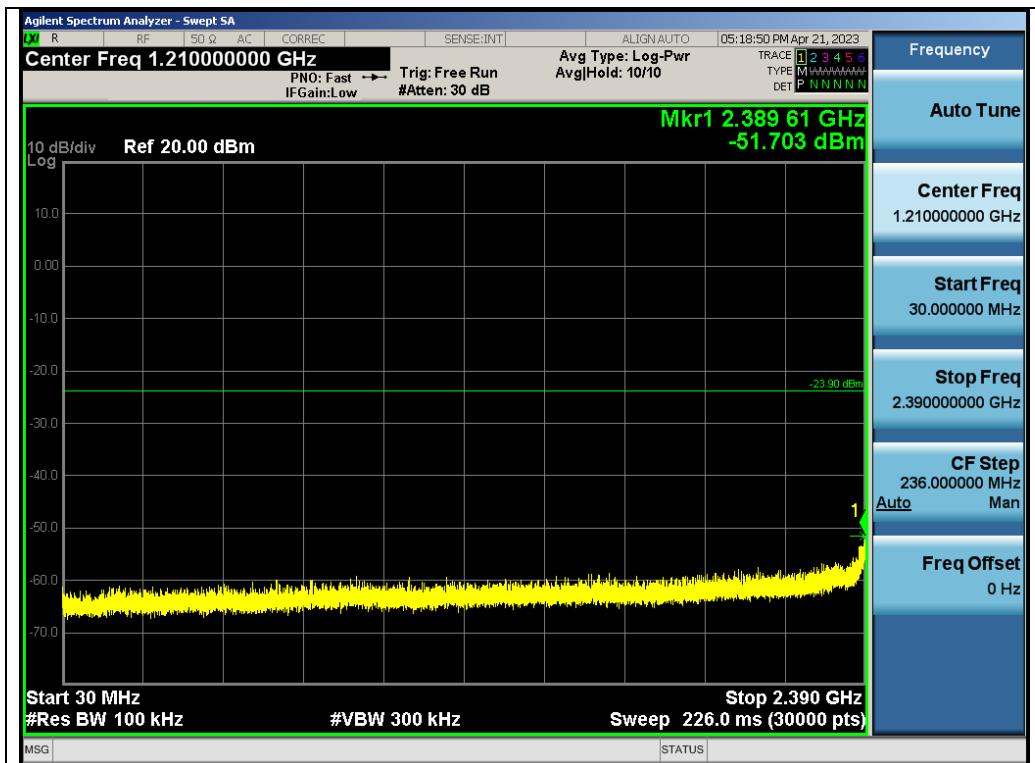


Test\_Graph\_802.11n20\_ANT1\_2462\_MCS0\_Lower Band Emissions

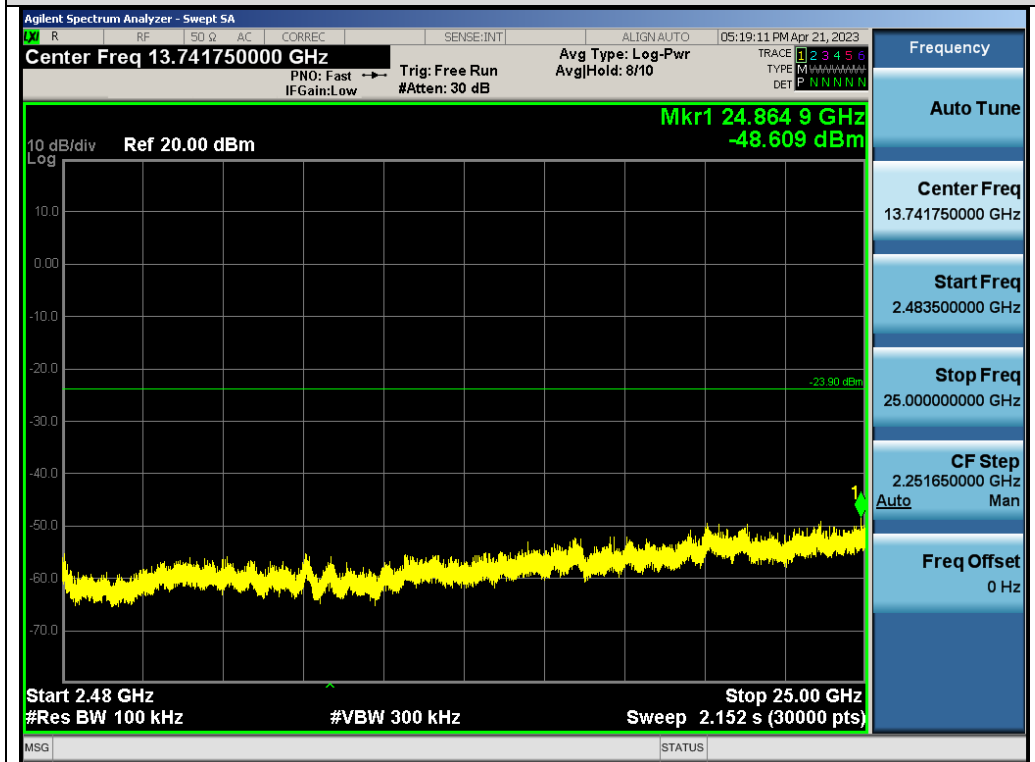


Test\_Graph\_802.11n20\_ANT1\_2462\_MCS0\_Higher Band Emissions

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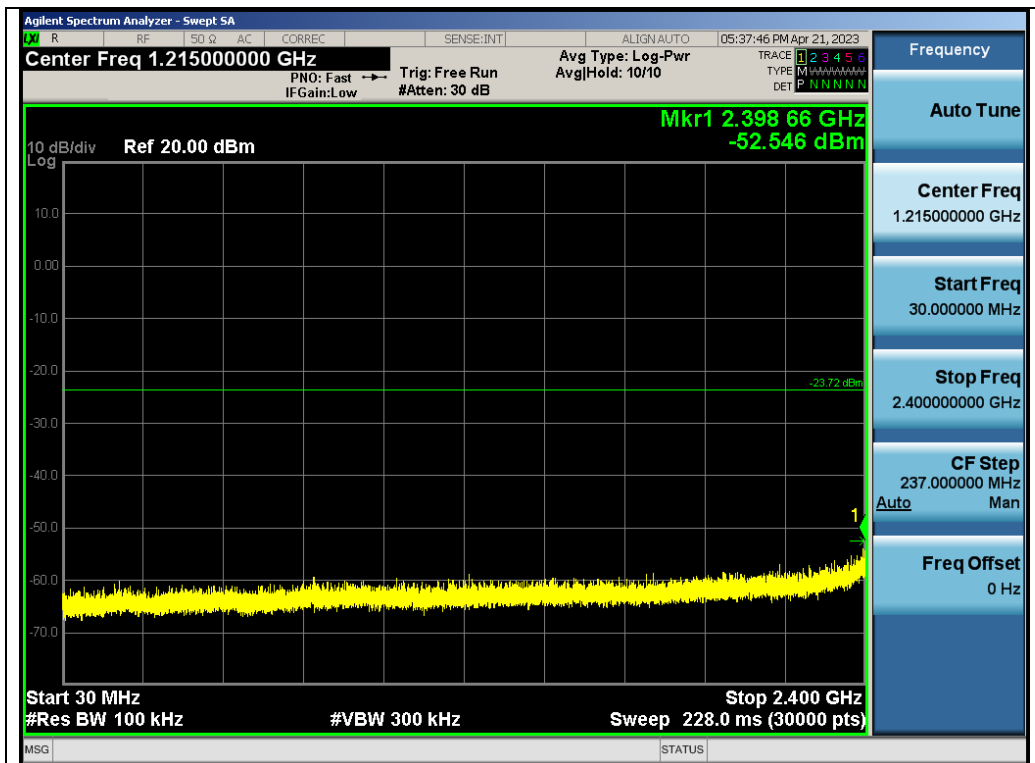
Test\_Graph\_802.11n40\_ANT1\_2422\_MCS0\_Lower Band Emissions



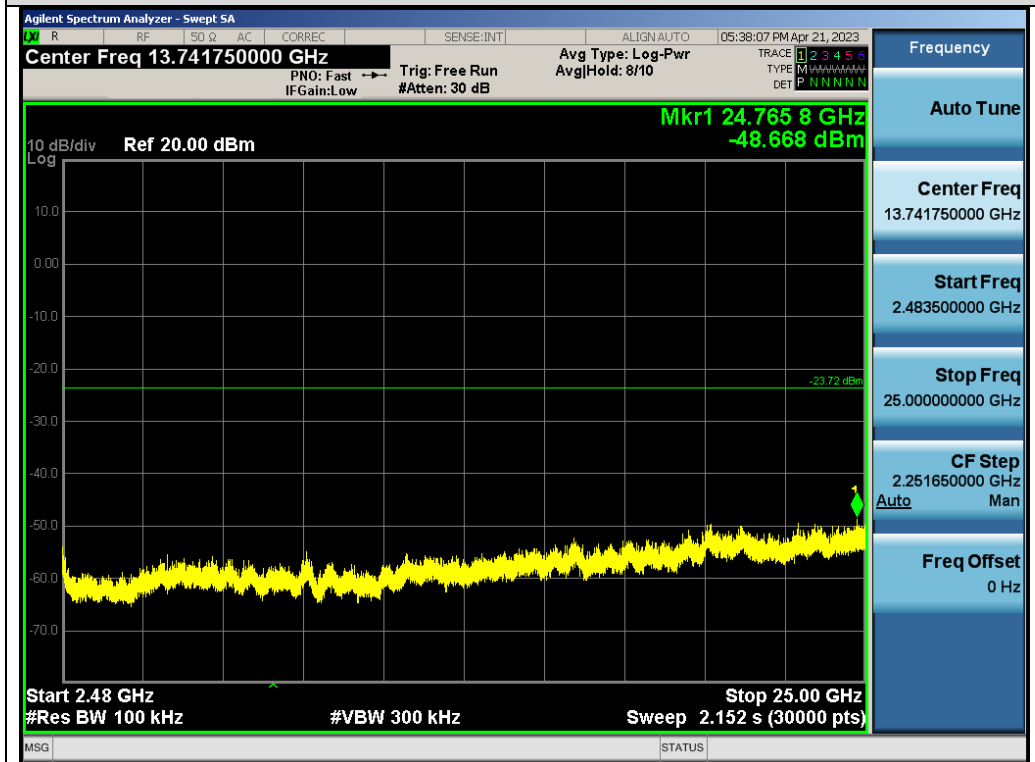
Test\_Graph\_802.11n40\_ANT1\_2422\_MCS0\_Higher Band Emissions

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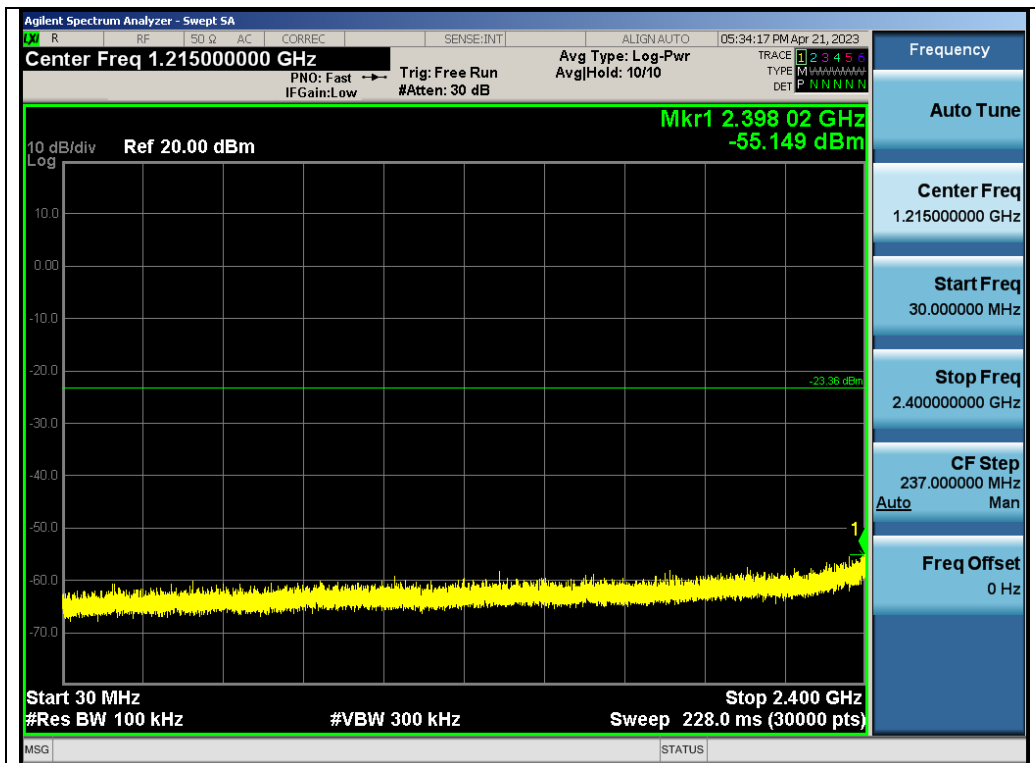


Test\_Graph\_802.11n40\_ANT1\_2437\_MCS0\_Lower Band Emissions

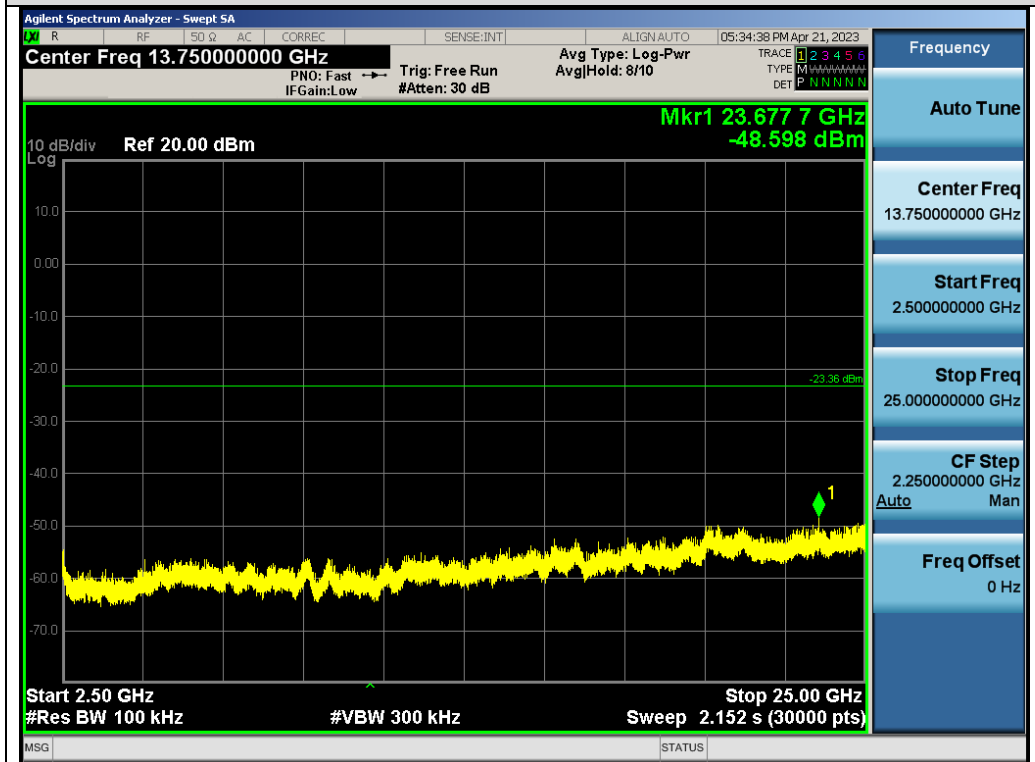


Test\_Graph\_802.11n40\_ANT1\_2437\_MCS0\_Higher Band Emissions

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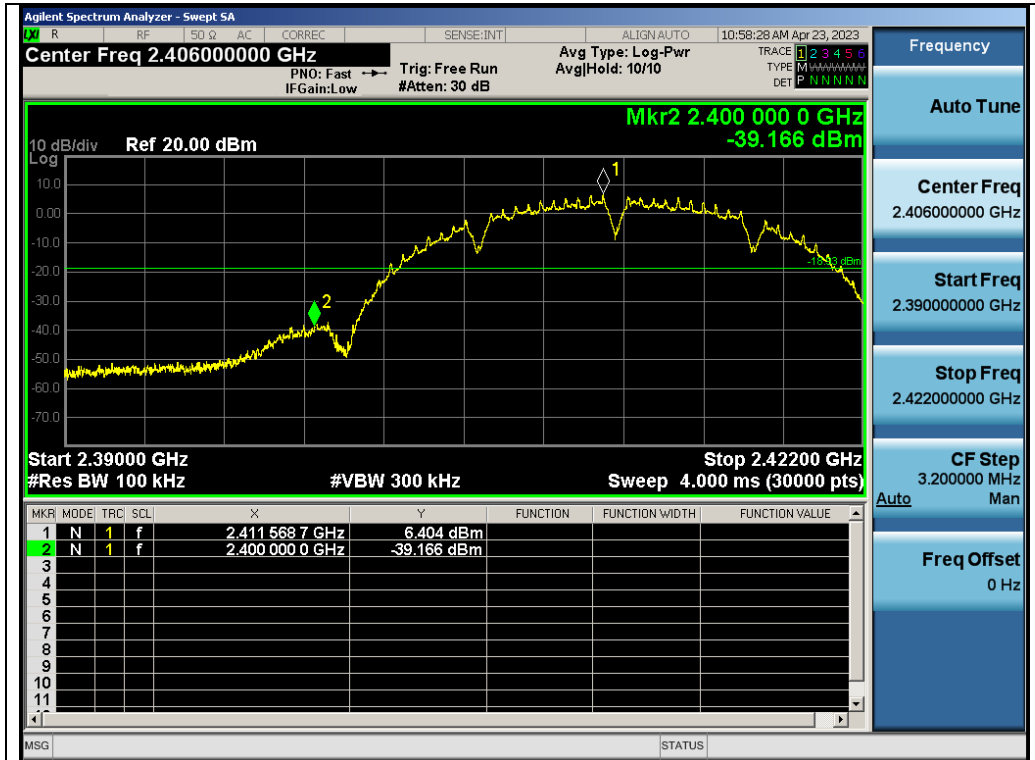
Test\_Graph\_802.11n40\_ANT1\_2452\_MCS0\_Lower Band Emissions



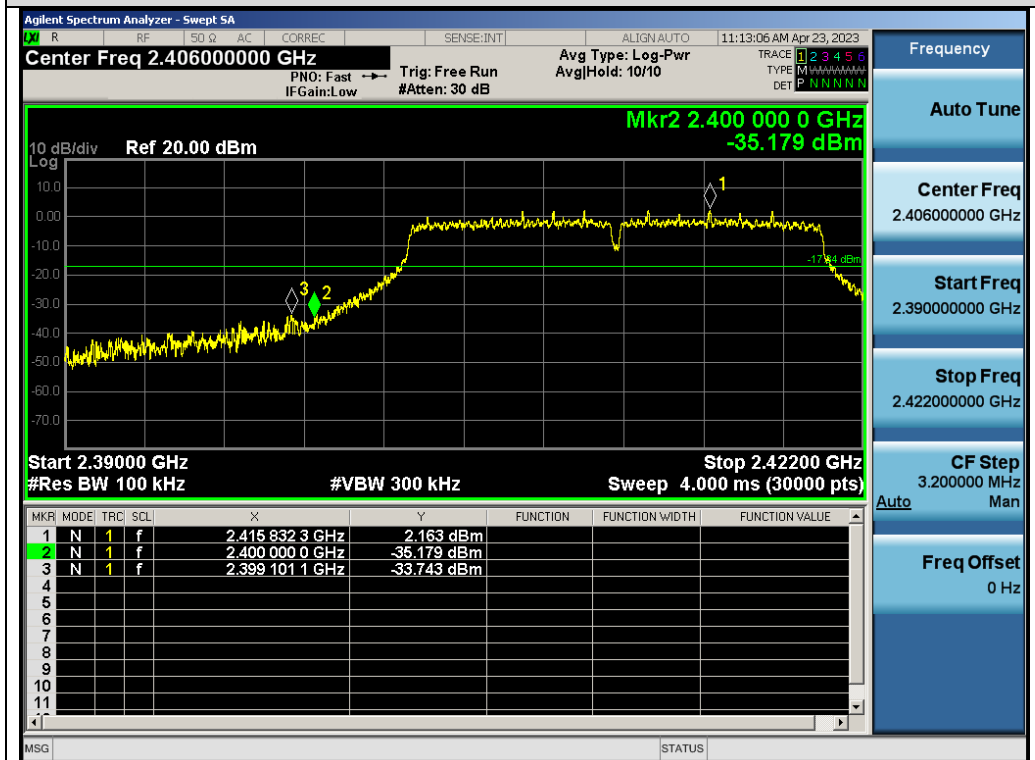
Test\_Graph\_802.11n40\_ANT1\_2452\_MCS0\_Higher Band Emissions

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

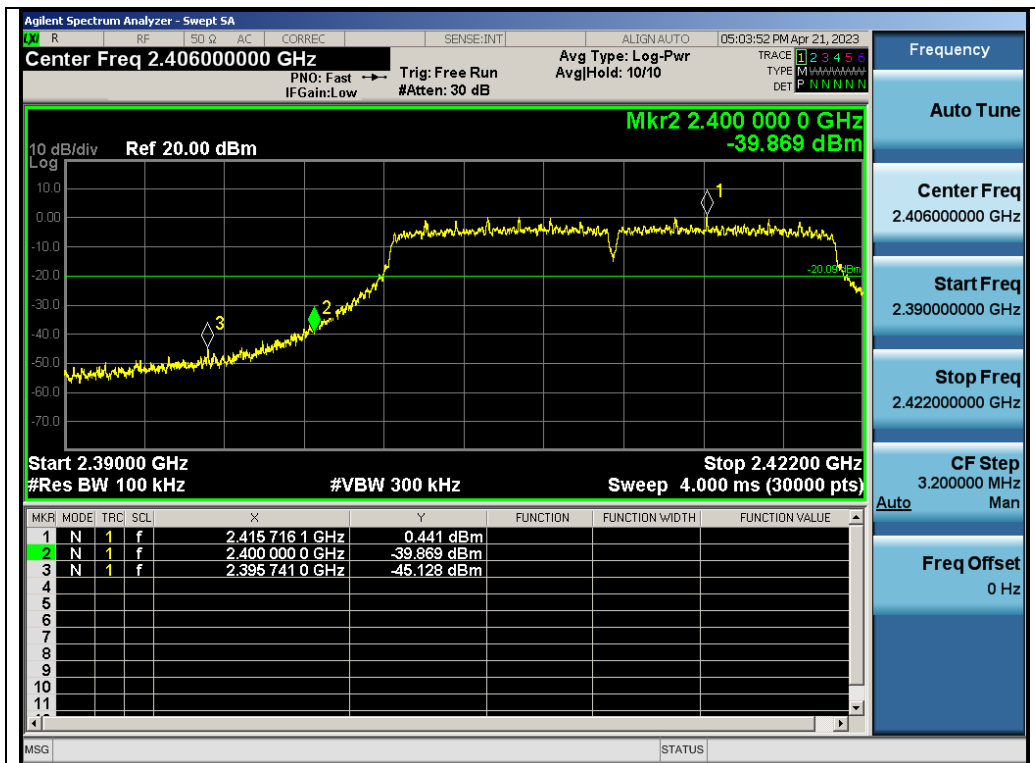


Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Lower Band Edge Emissions

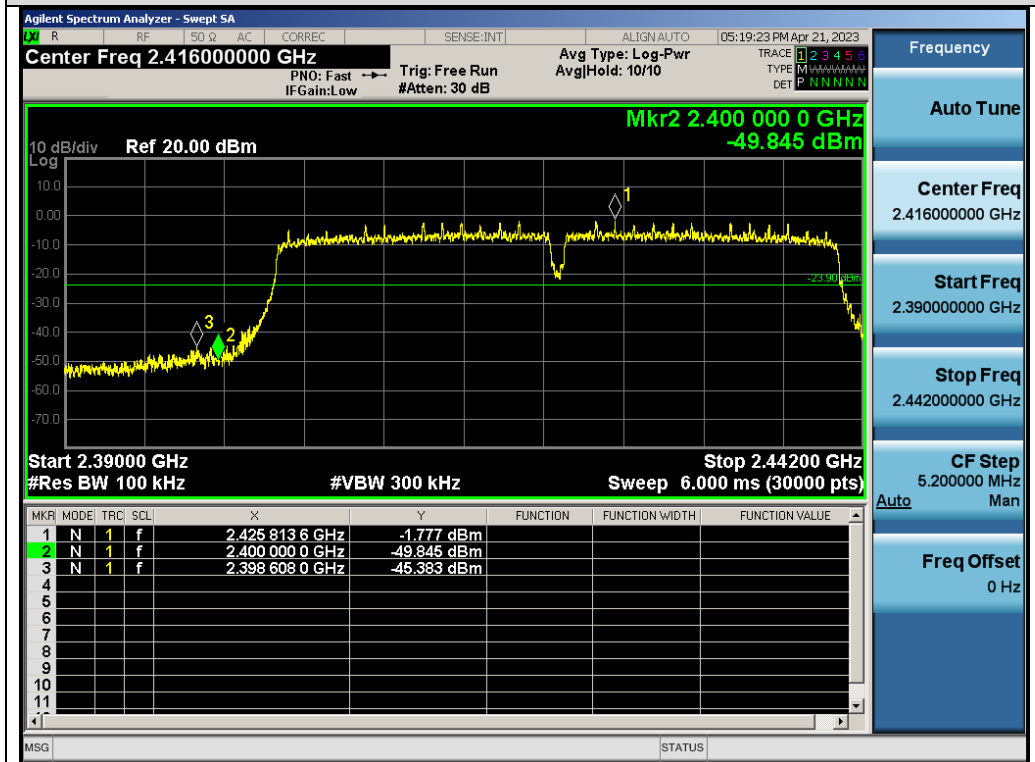


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_Lower Band Edge Emissions

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Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_Lower Band Edge Emissions



Test\_Graph\_802.11n40\_ANT1\_2422\_MCS0\_Lower Band Edge Emissions

Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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## 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

### 10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

### 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

### 10.3 MEASUREMENT EQUIPMENT USED

Refer to Section 6.

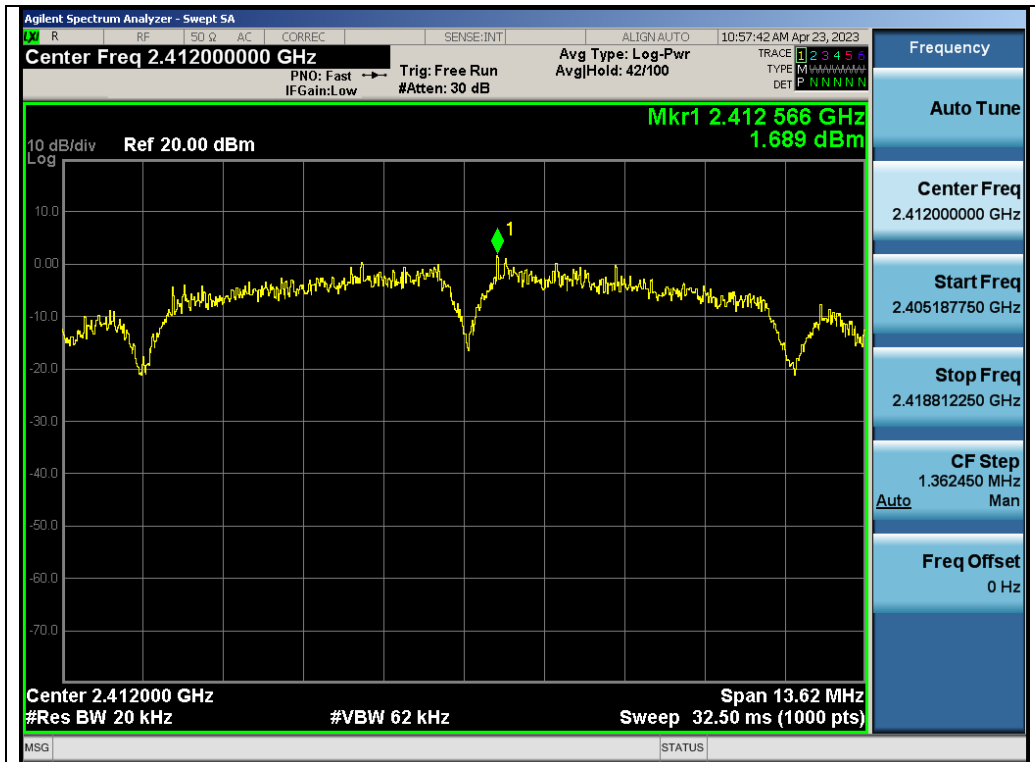
### 10.4 LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density					
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
802.11b	2412	1.689	-6.55	∞	Pass
	2437	1.016	-7.223	∞	Pass
	2462	0.940	-7.299	∞	Pass
802.11g	2412	-3.322	-11.561	∞	Pass
	2437	-3.047	-11.286	∞	Pass
	2462	-3.133	-11.372	∞	Pass
802.11n20	2412	-5.369	-13.608	∞	Pass
	2437	-5.291	-13.53	∞	Pass
	2462	-5.402	-13.641	∞	Pass
802.11n40	2422	-7.884	-16.123	∞	Pass
	2437	-8.366	-16.605	∞	Pass
	2452	-7.491	-15.73	∞	Pass

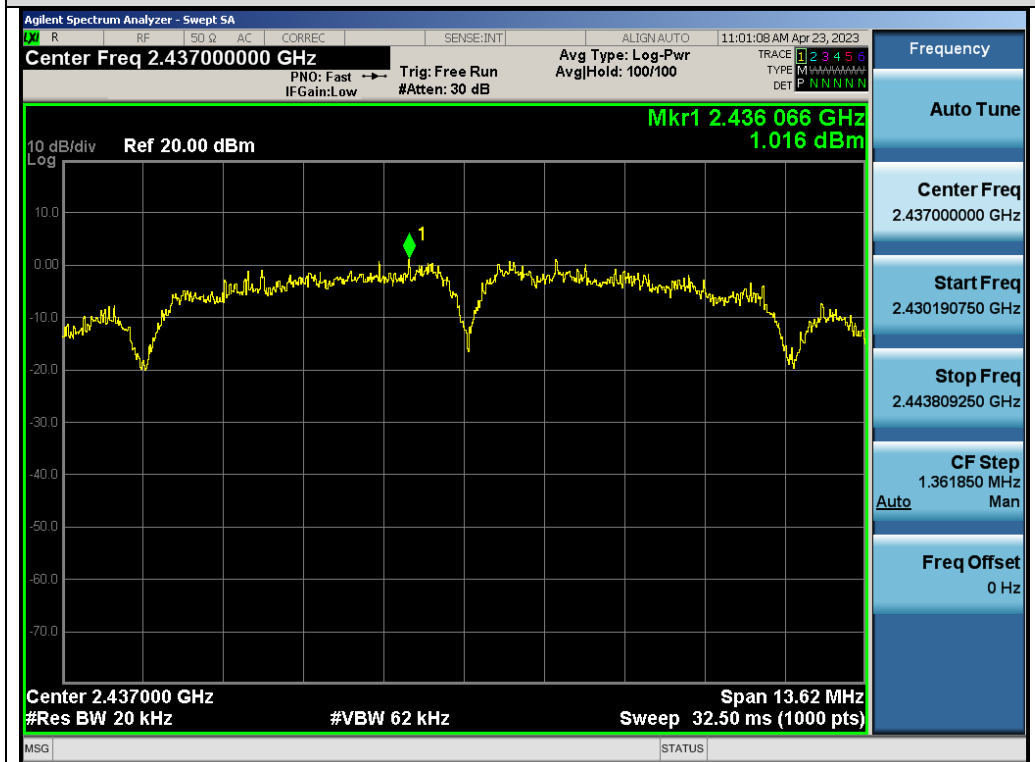
Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) – 10\*log(20/3).

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### Test Graphs of Conducted Output Power Spectral Density

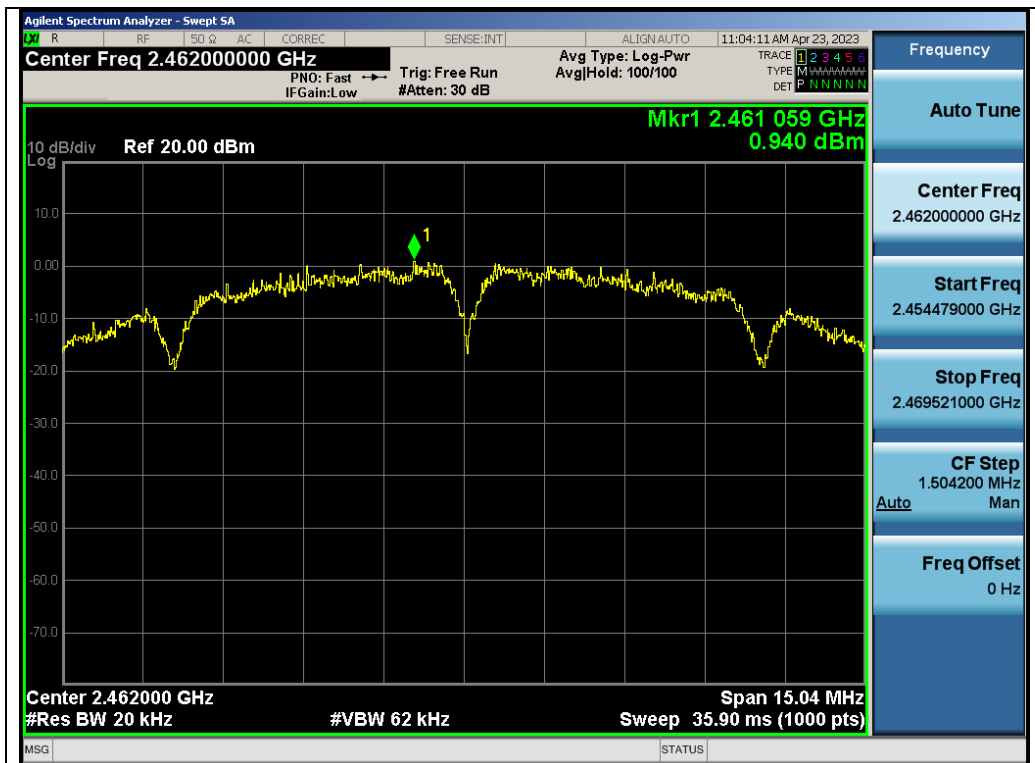


Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_PSD

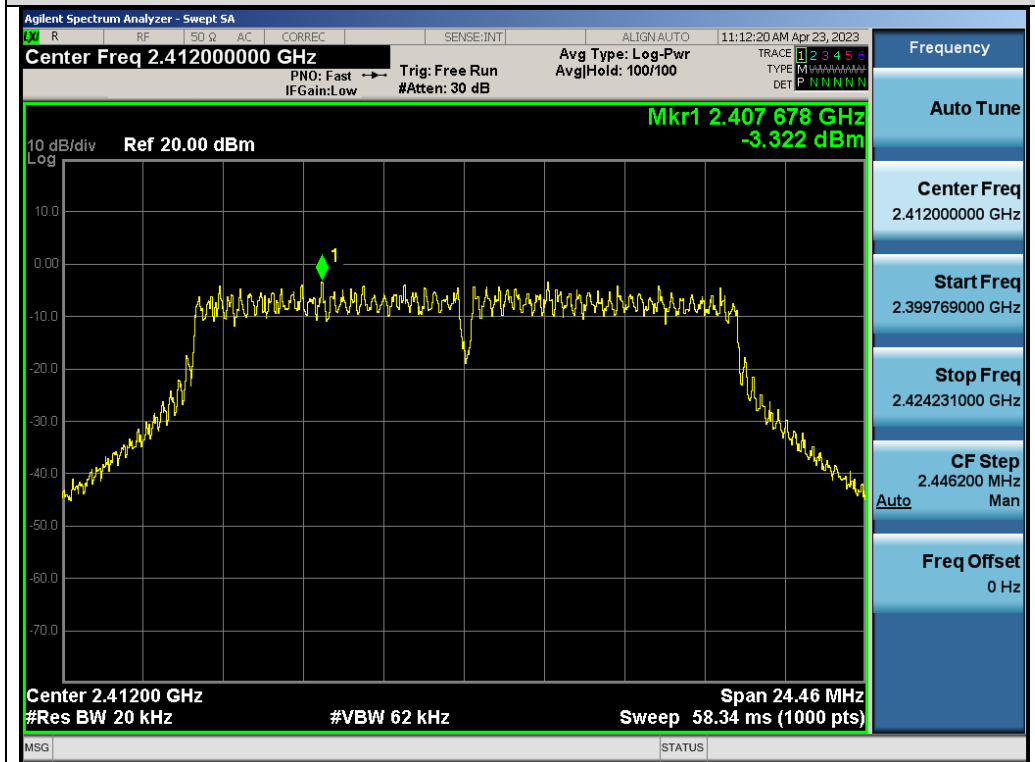


Test\_Graph\_802.11b\_ANT1\_2437\_1Mbps\_PSD

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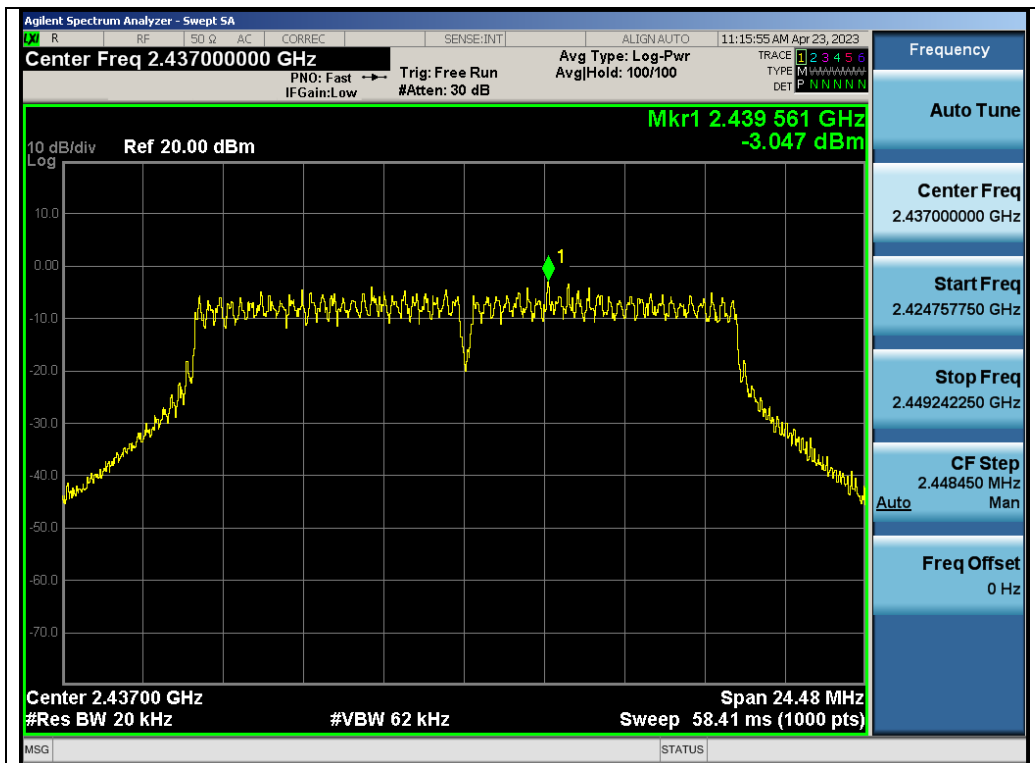


Test\_Graph\_802.11b\_ANT1\_2462\_1Mbps\_PSD

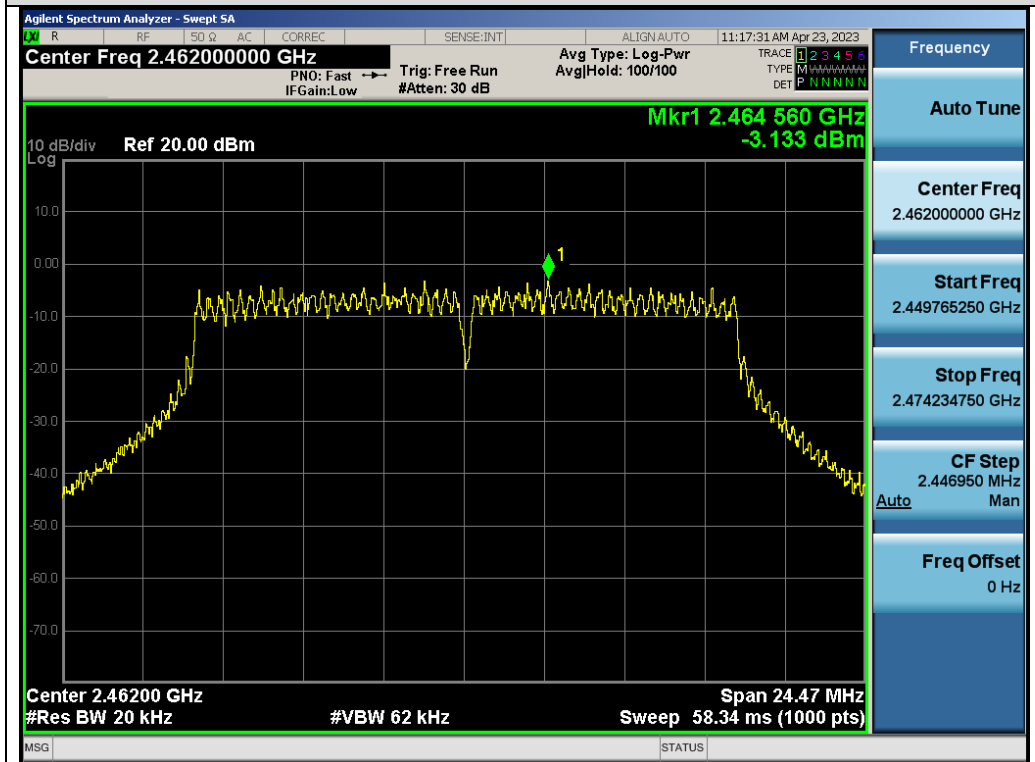


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_PSD

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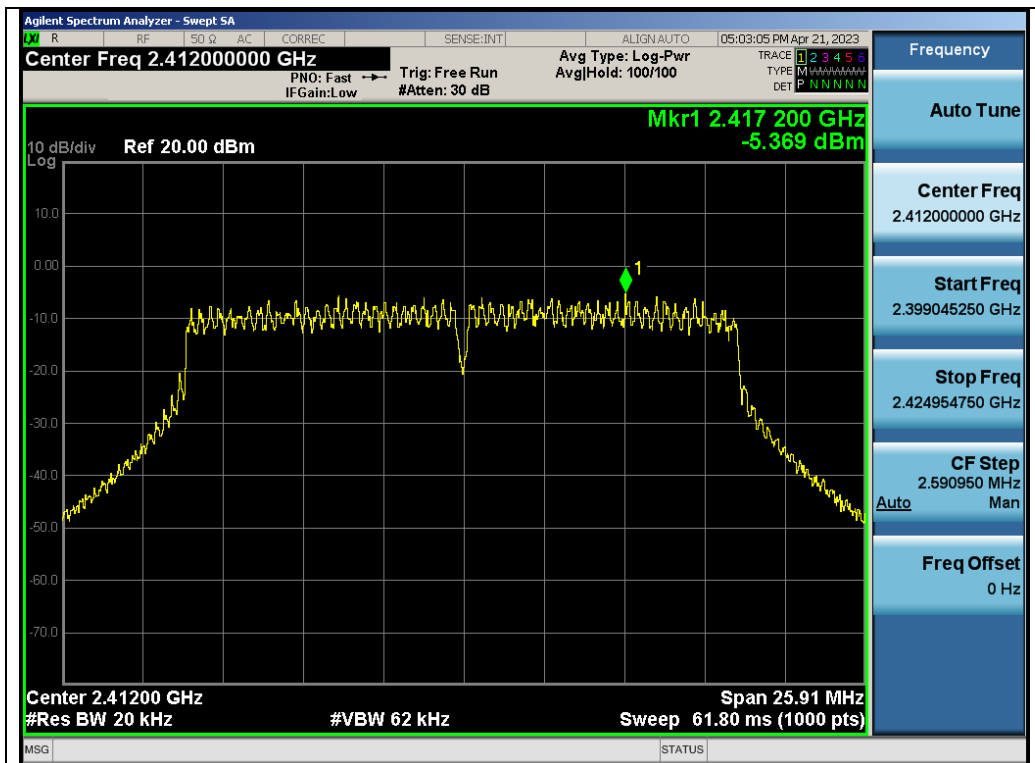
Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_PSD



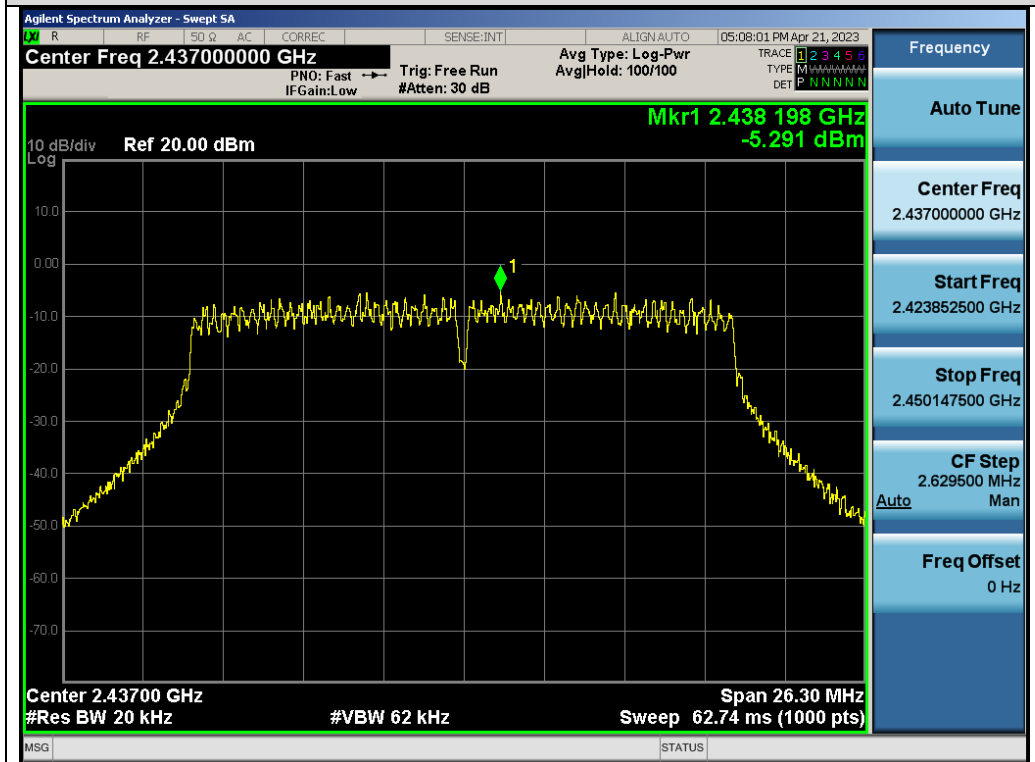
Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_PSD

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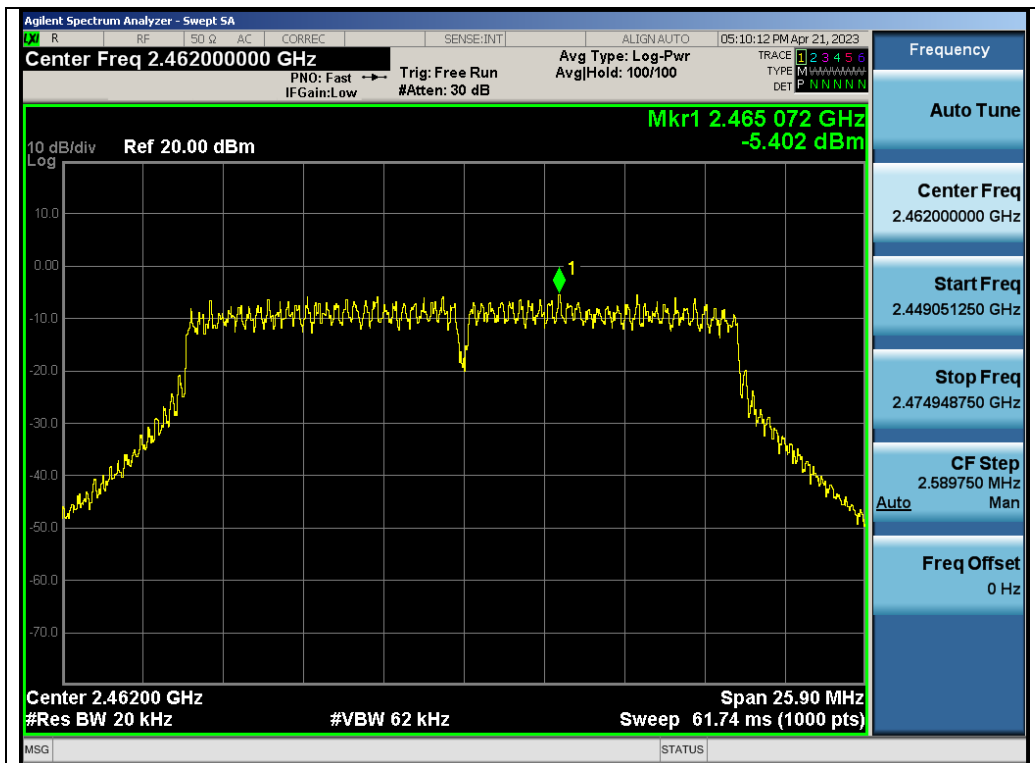


Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_PSD

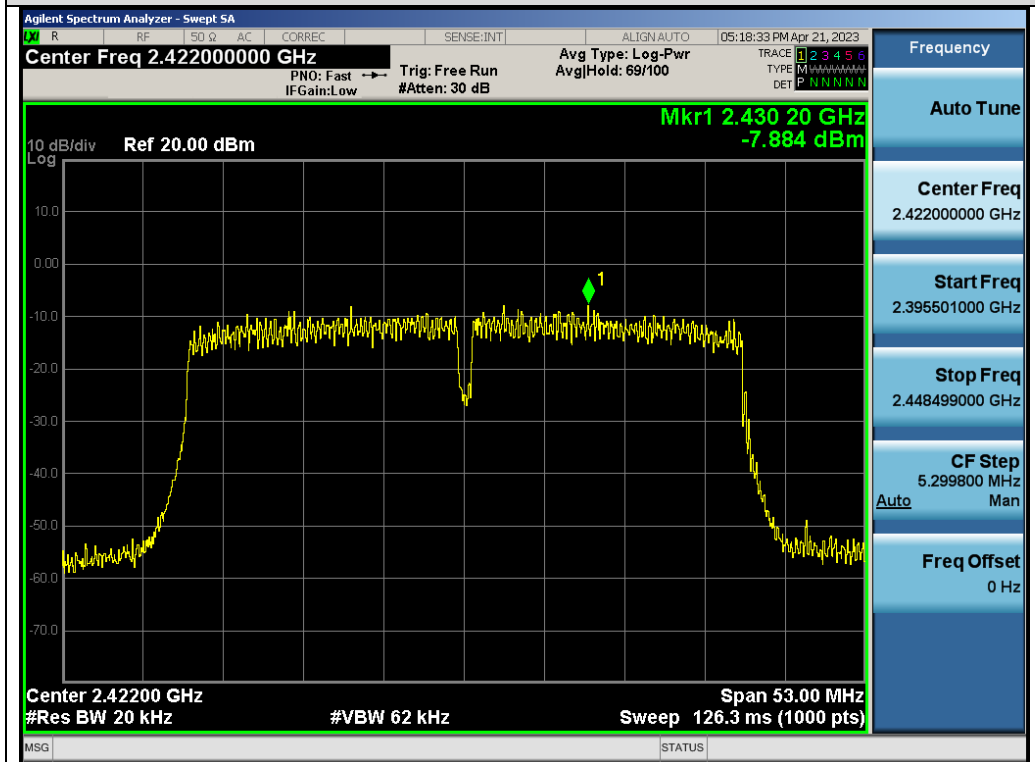


Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_PSD

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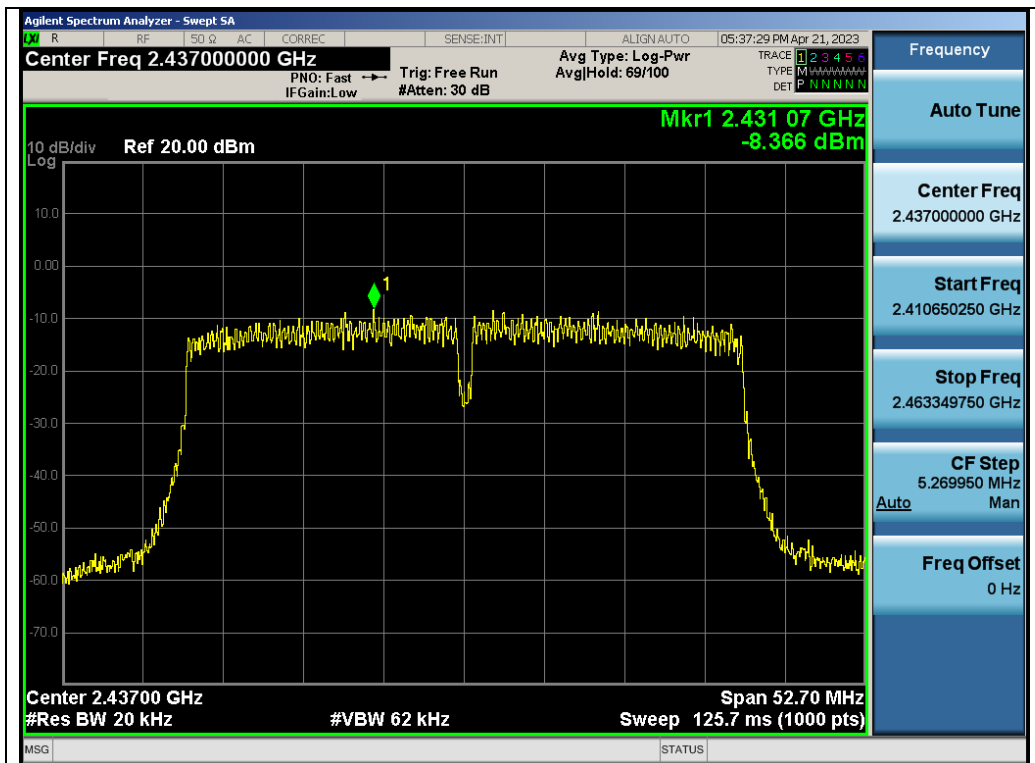


Test\_Graph\_802.11n20\_ANT1\_2462\_MCS0\_PSD

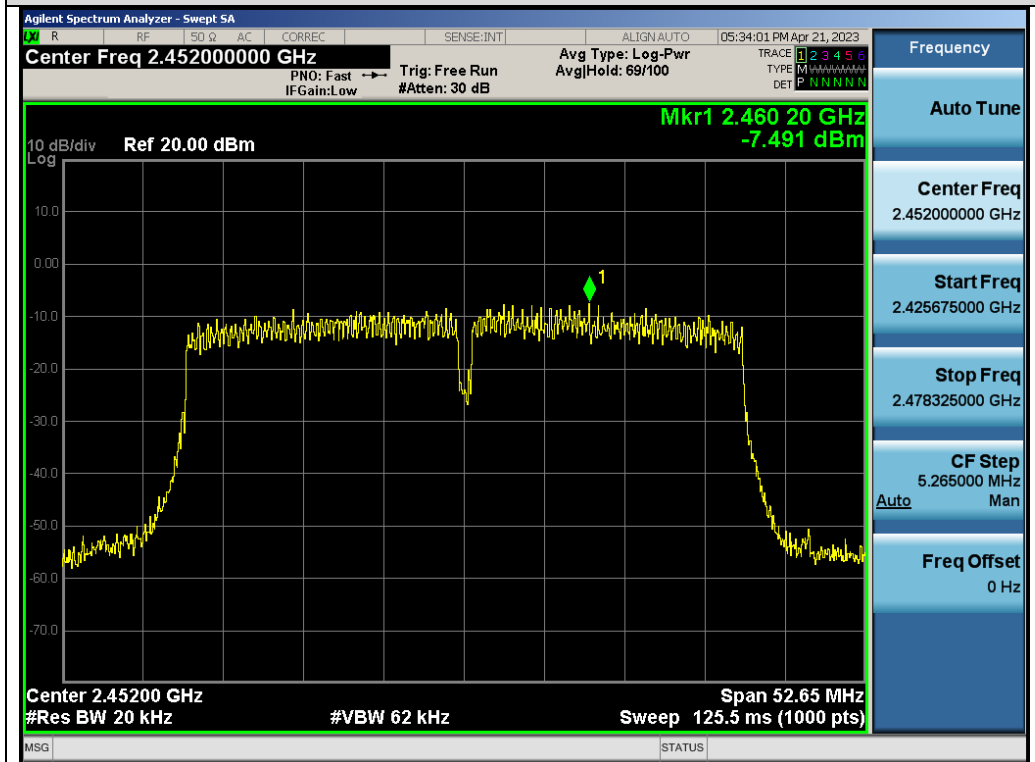


Test\_Graph\_802.11n40\_ANT1\_2422\_MCS0\_PSD

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Test\_Graph\_802.11n40\_ANT1\_2437\_MCS0\_PSD



Test\_Graph\_802.11n40\_ANT1\_2452\_MCS0\_PSD

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## 11. RADIATED EMISSION

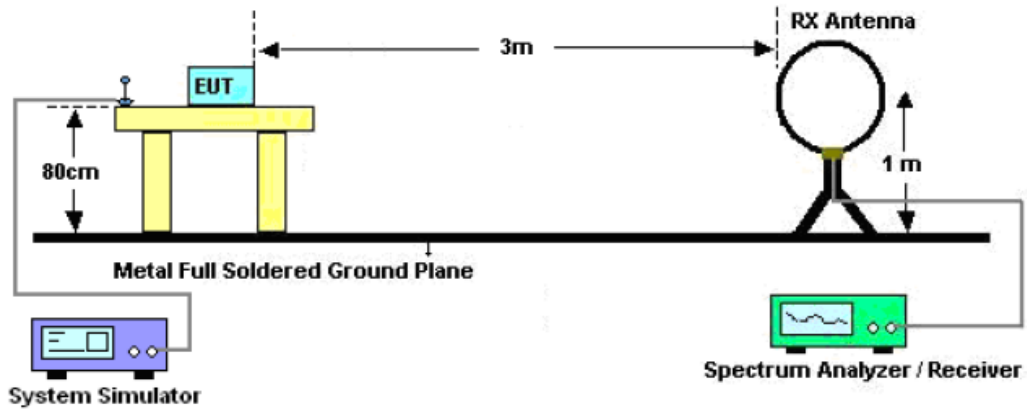
### 11.1. MEASUREMENT PROCEDURE

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.

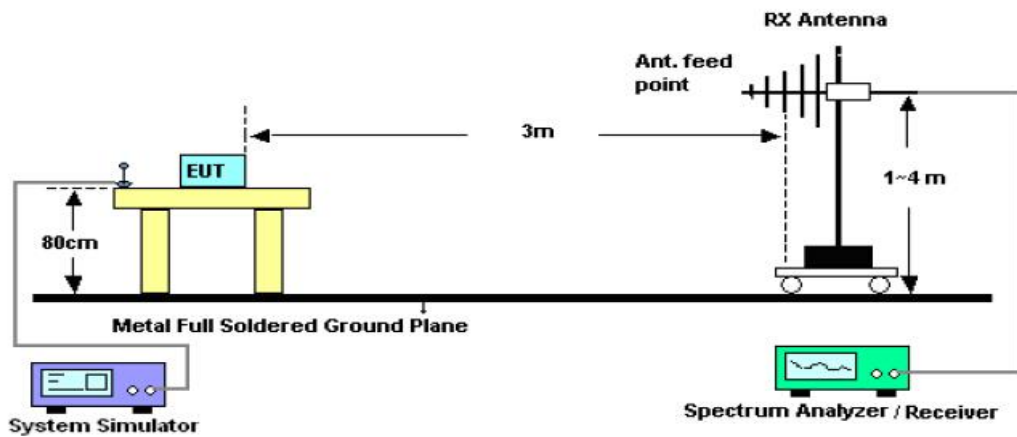
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## 11.2. TEST SETUP

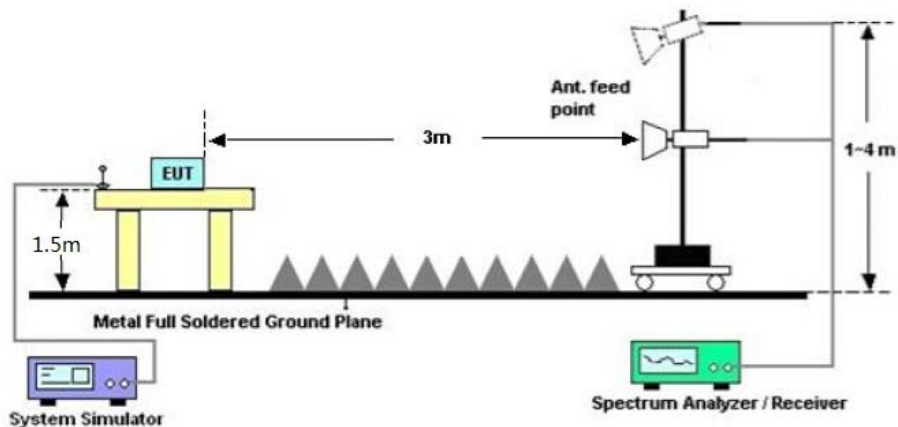
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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### 11.3. LIMITS AND MEASUREMENT RESULT

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.

### 11.4. TEST RESULT

#### Radiated emission below 30MHz

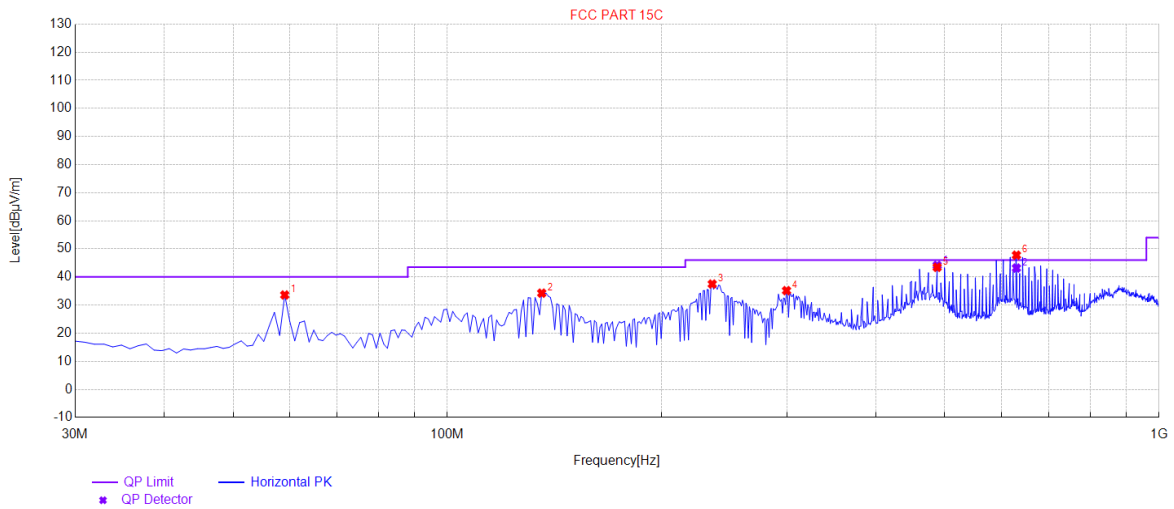
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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

**Radiated emission from 30MHz to 1000MHz**

<b>EUT</b>	Neurosens IMU sensor	<b>Model Name</b>	Neurosens IMU sensor
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2412MHz	<b>Antenna</b>	Horizontal



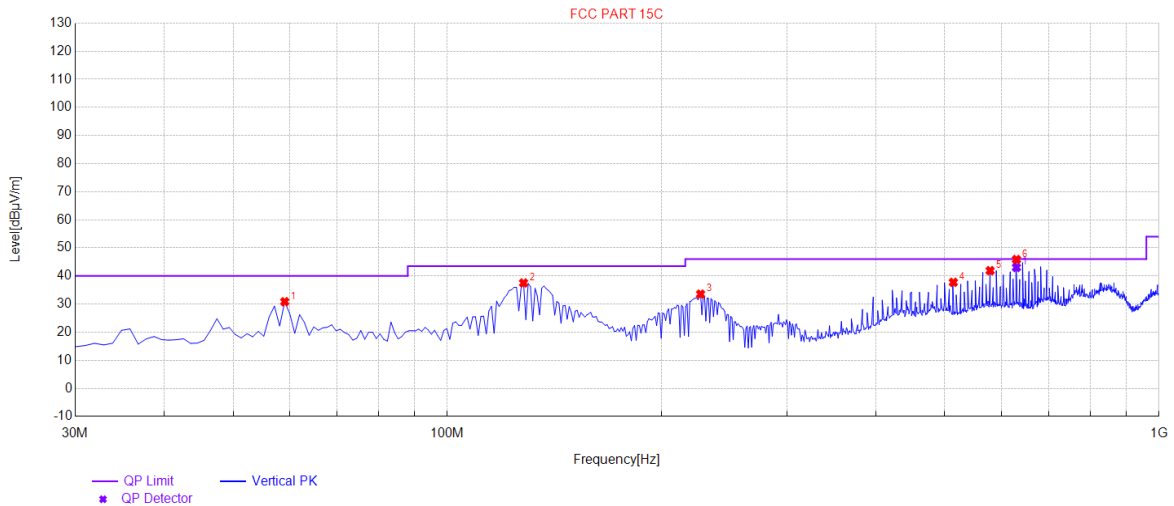
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1	33.59	12.74	40.00	6.41	100	53	Horizontal
2	135.73	34.24	14.18	43.50	9.26	100	85	Horizontal
3	235.64	37.48	16.79	46.00	8.52	100	34	Horizontal
4	299.66	35.13	16.63	46.00	10.87	100	57	Horizontal
5	487.84	43.43	25.04	46.00	2.57	100	211	Horizontal
6	630.43	47.76	26.63	46.00	-1.76	100	49	Horizontal

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	487.84	25.04	44.14	46.00	1.86	100	211	Horizontal
2	630.43	26.63	43.17	46.00	2.83	100	49	Horizontal

**RESULT: PASS**

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<b>EUT</b>	Neurosens IMU sensor	<b>Model Name</b>	Neurosens IMU sensor
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2412MHz	<b>Antenna</b>	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1	30.84	14.77	40.00	9.16	100	204	Vertical
2	127.97	37.51	18.41	43.50	5.99	100	58	Vertical
3	226.91	33.54	14.70	46.00	12.46	100	326	Vertical
4	514.03	37.74	23.29	46.00	8.26	100	359	Vertical
5	579.02	41.89	25.64	46.00	4.11	100	15	Vertical
6	630.43	45.87	26.43	46.00	0.13	100	298	Vertical

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	630.43	26.43	43.04	46.00	2.96	100	298	Vertical

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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**Radiated emission above 1GHz**

<b>EUT</b>	Neurosens IMU sensor	<b>Model Name</b>	Neurosens IMU sensor
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2412MHz	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4824.000	55.36	0.08	55.44	74	-18.56	peak
4824.000	46.29	0.08	46.37	54	-7.63	AVG
7236.000	50.11	2.21	52.32	74	-21.68	peak
7236.000	41.06	2.21	43.27	54	-10.73	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	Neurosens IMU sensor	<b>Model Name</b>	Neurosens IMU sensor
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2412MHz	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4824.000	56.29	0.08	56.37	74	-17.63	peak
4824.000	47.25	0.08	47.33	54	-6.67	AVG
7236.000	51.26	2.21	53.47	74	-20.53	peak
7236.000	42.59	2.21	44.8	54	-9.2	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	Neurosens IMU sensor	<b>Model Name</b>	Neurosens IMU sensor
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2437MHz	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.000	57.46	0.14	57.6	74	-16.4	peak
4874.000	47.61	0.14	47.75	54	-6.25	AVG
7311.000	52.15	2.36	54.51	74	-19.49	peak
7311.000	43.24	2.36	45.6	54	-8.4	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	Neurosens IMU sensor	<b>Model Name</b>	Neurosens IMU sensor
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2437MHz	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.000	56.39	0.14	56.53	74	-17.47	peak
4874.000	47.12	0.14	47.26	54	-6.74	AVG
7311.000	51.03	2.36	53.39	74	-20.61	peak
7311.000	42.36	2.36	44.72	54	-9.28	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	Neurosens IMU sensor	<b>Model Name</b>	Neurosens IMU sensor
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2462MHz	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	55.16	0.22	55.38	74	-18.62	peak
4924.000	46.34	0.22	46.56	54	-7.44	AVG
7386.000	50.13	2.64	52.77	74	-21.23	peak
7386.000	41.25	2.64	43.89	54	-10.11	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	Neurosens IMU sensor	<b>Model Name</b>	Neurosens IMU sensor
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2462MHz	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.000	56.29	0.22	56.51	74	-17.49	peak
4924.000	47.26	0.22	47.48	54	-6.52	AVG
7386.000	50.24	2.64	52.88	74	-21.12	peak
7386.000	41.26	2.64	43.9	54	-10.1	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**RESULT: PASS**

**Note:**

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

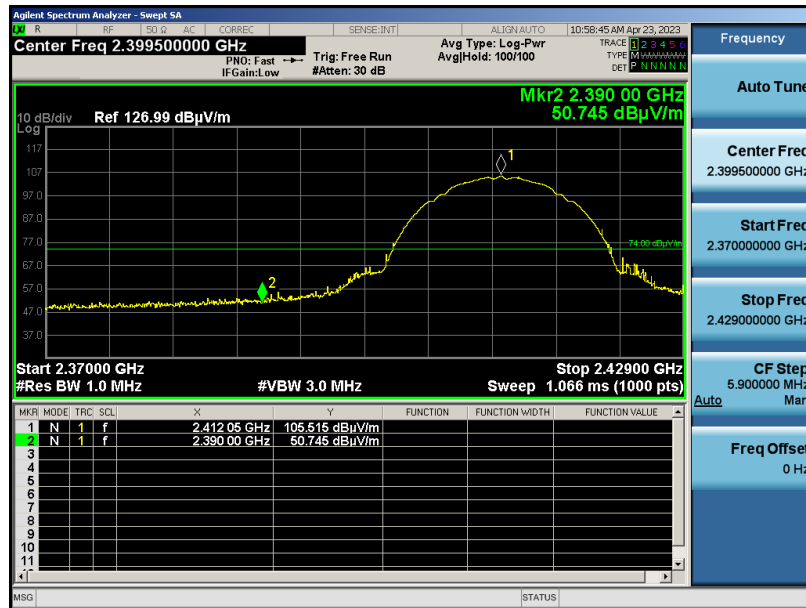
All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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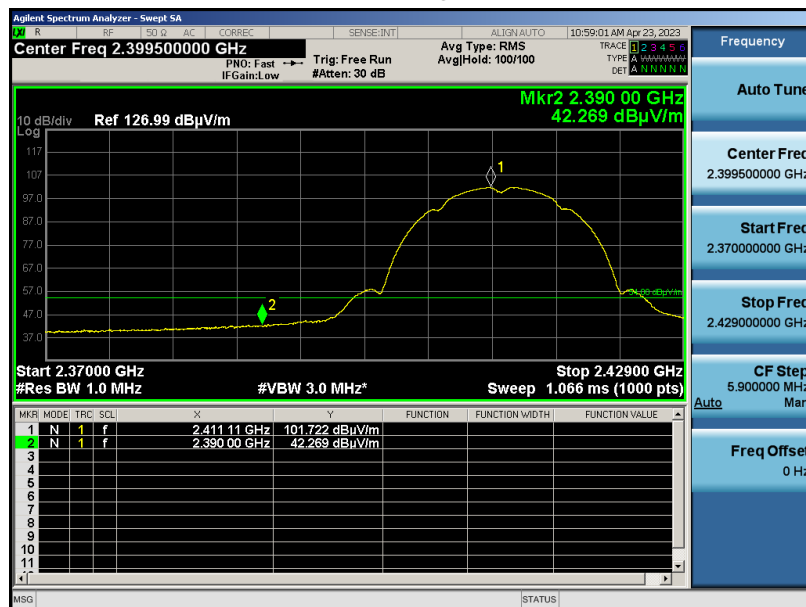
**Test result for band edge emission at restricted bands**

EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement

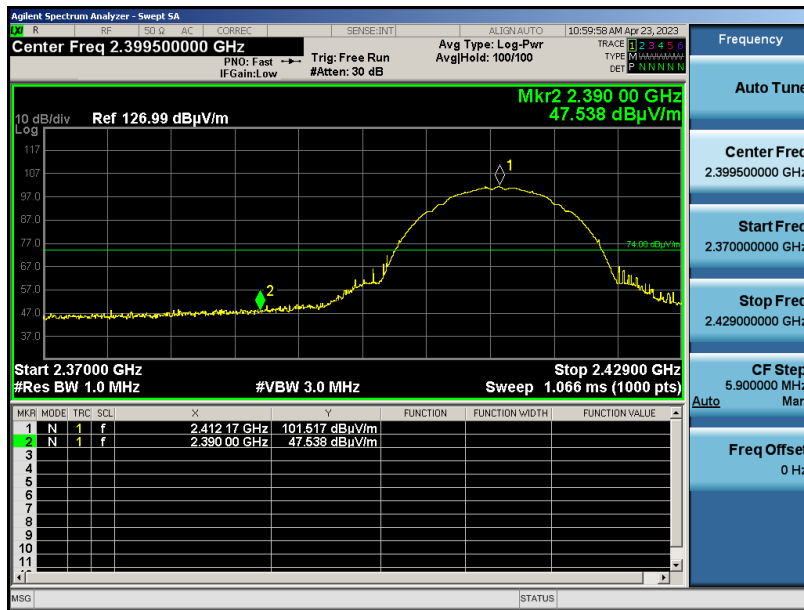


**RESULT: PASS**

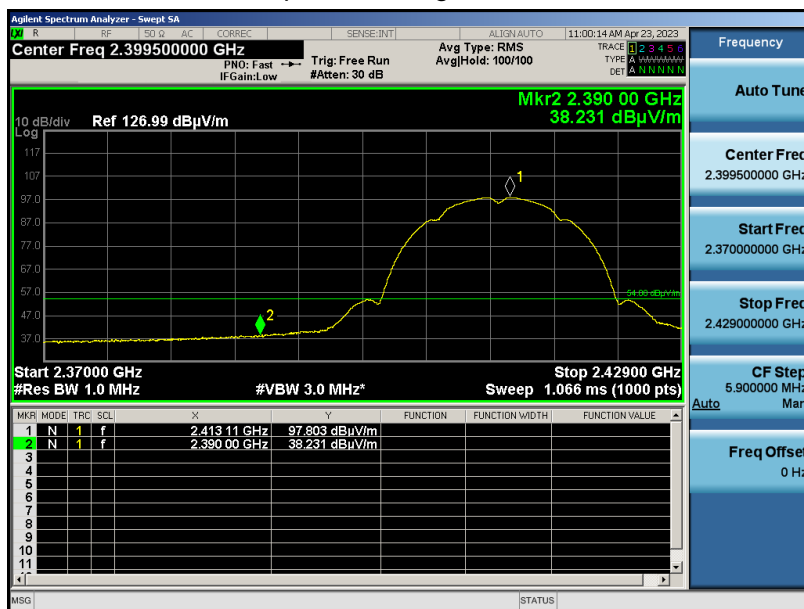
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

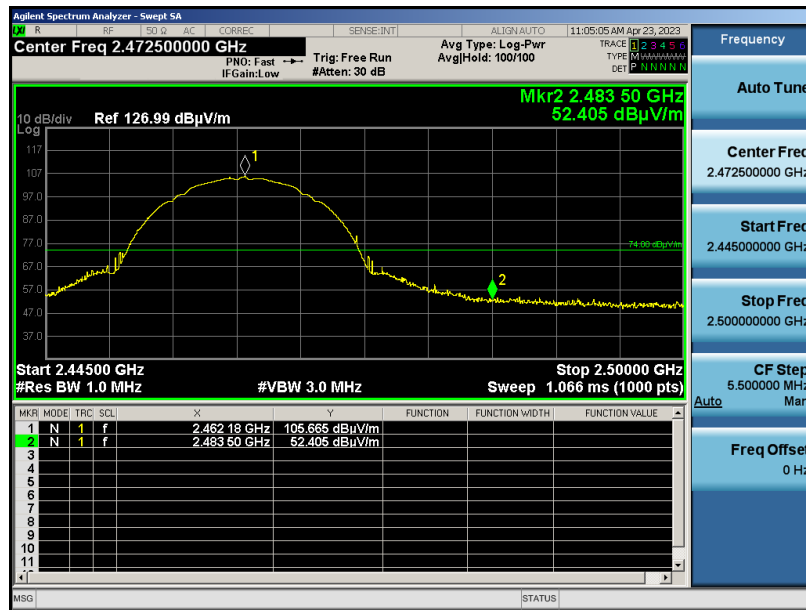


**RESULT: PASS**

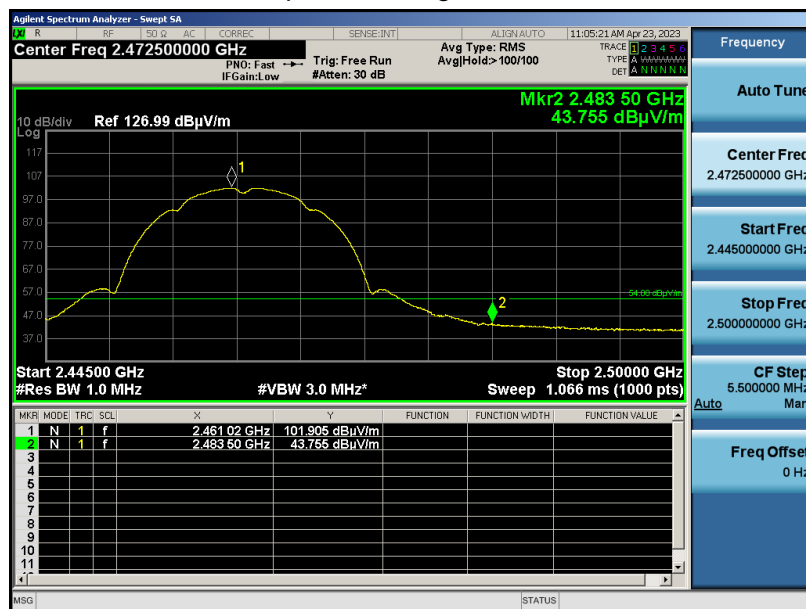
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement

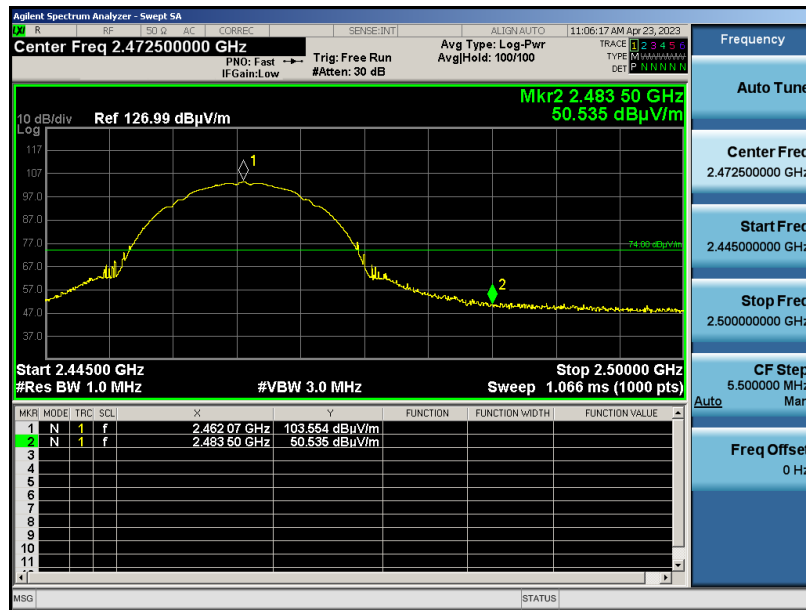


**RESULT: PASS**

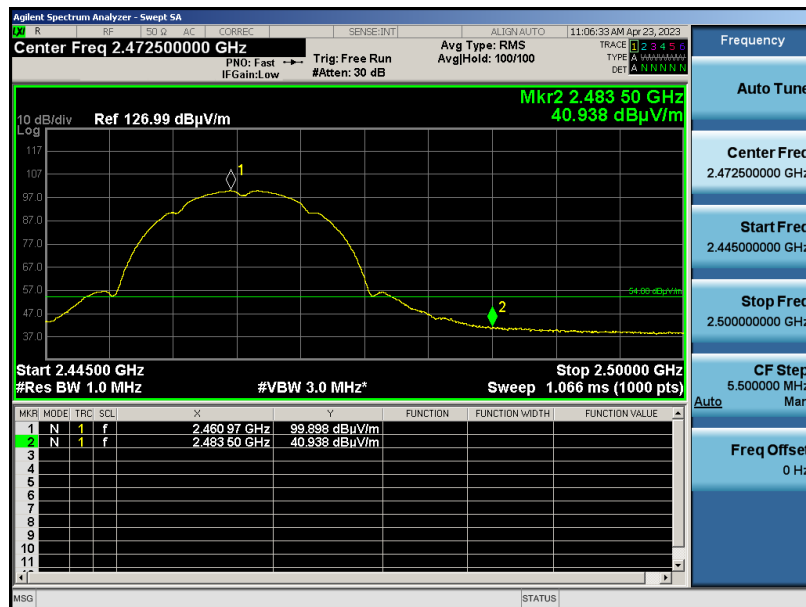
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

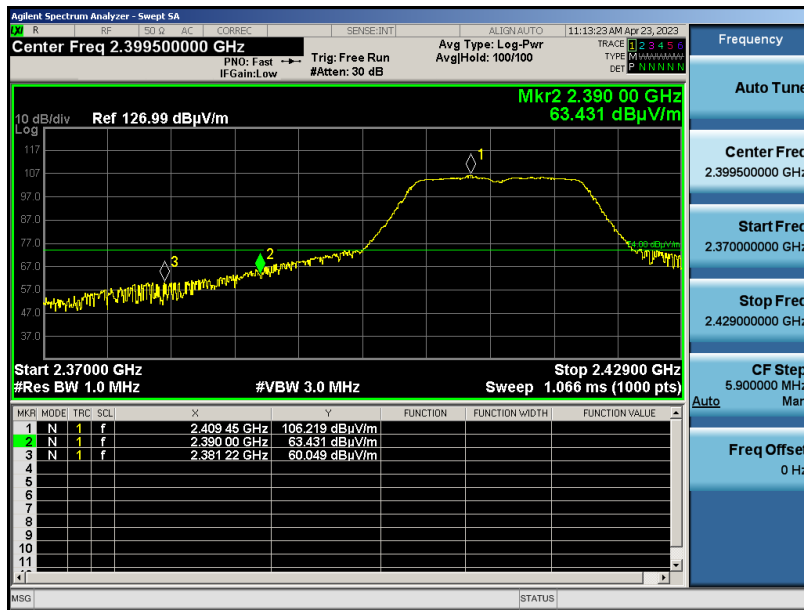


**RESULT: PASS**

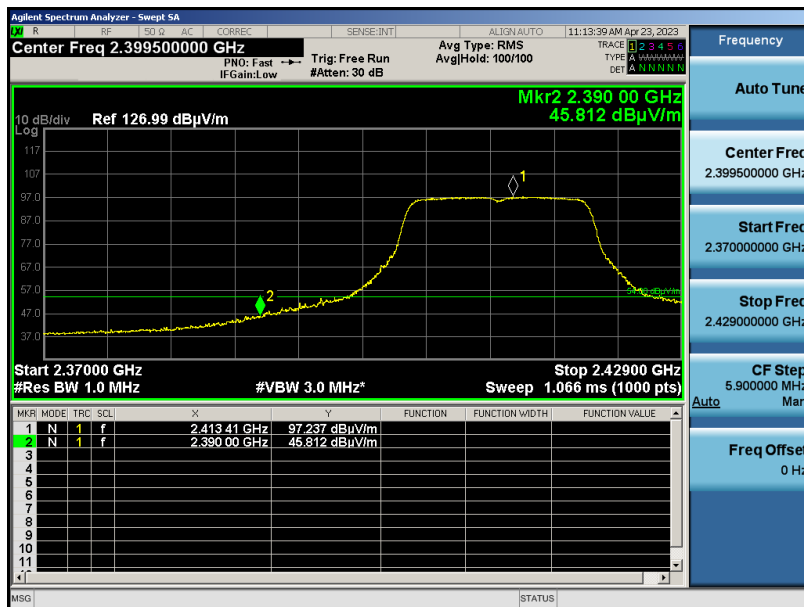
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



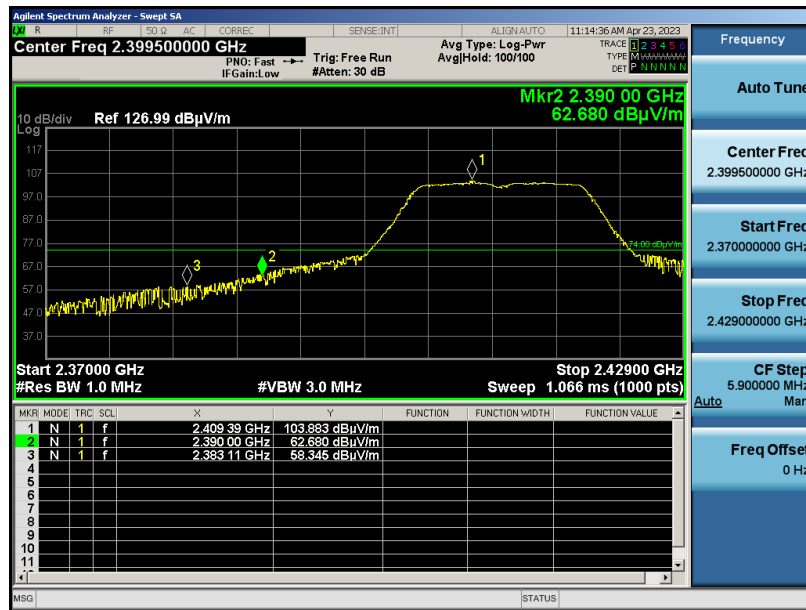
**RESULT: PASS**

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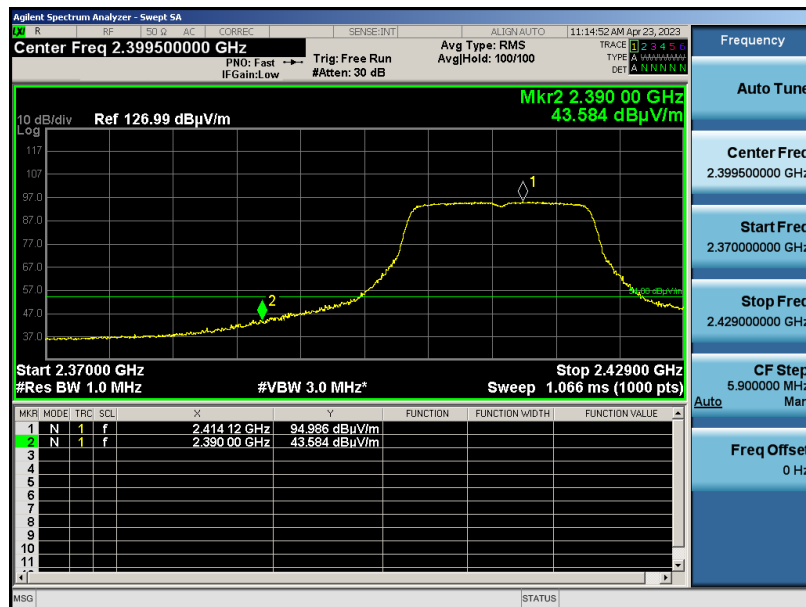


EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

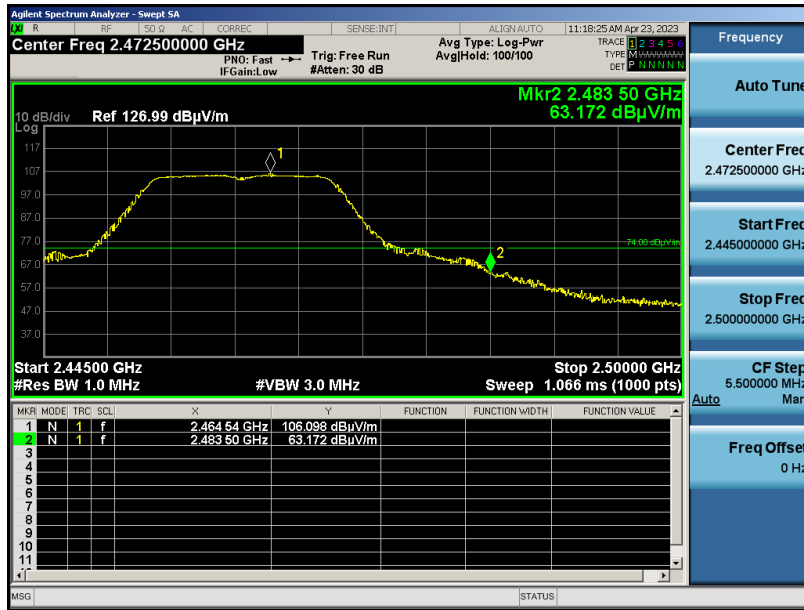


**RESULT: PASS**

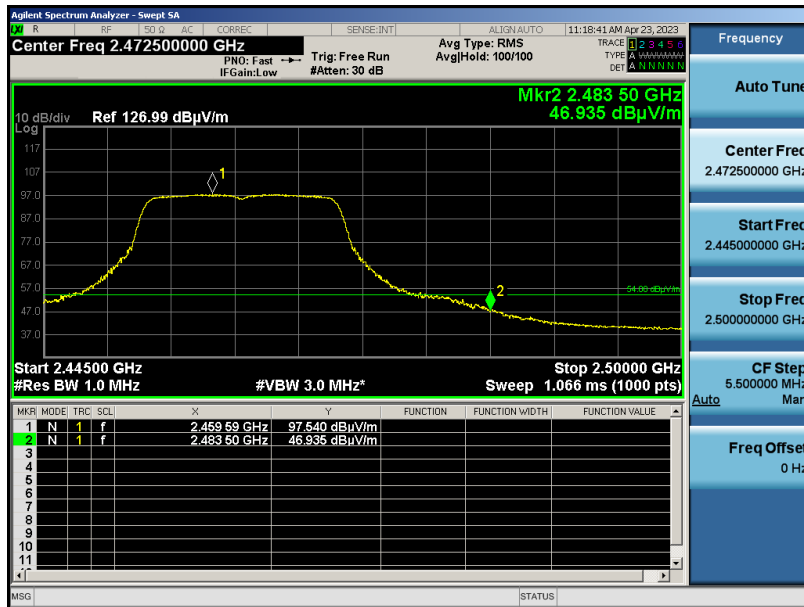
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

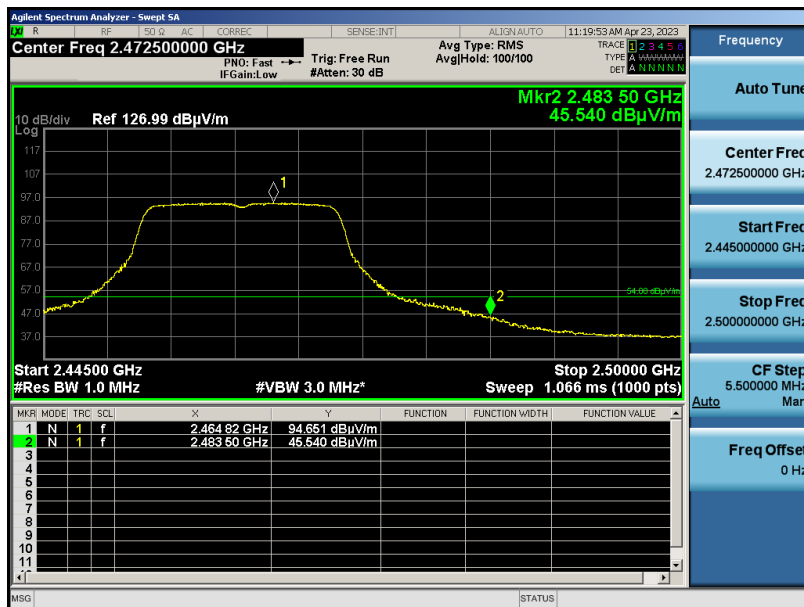
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

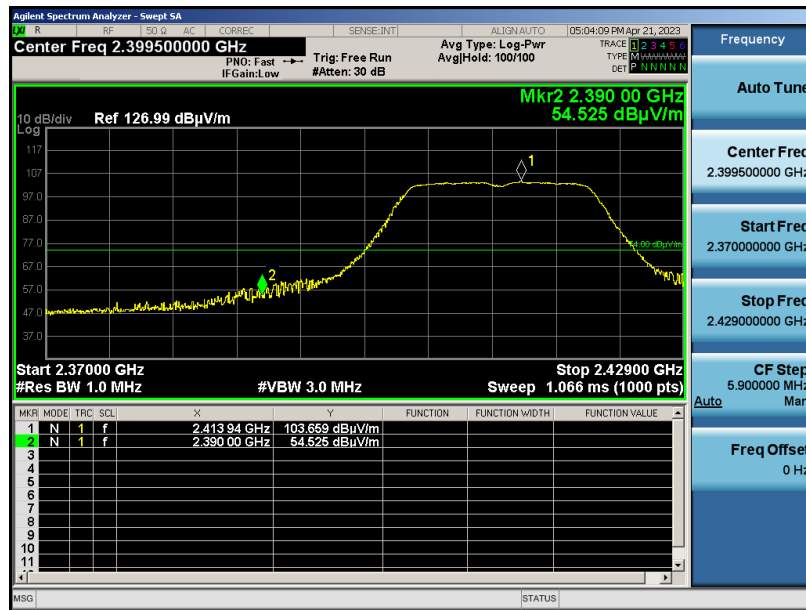


**RESULT: PASS**

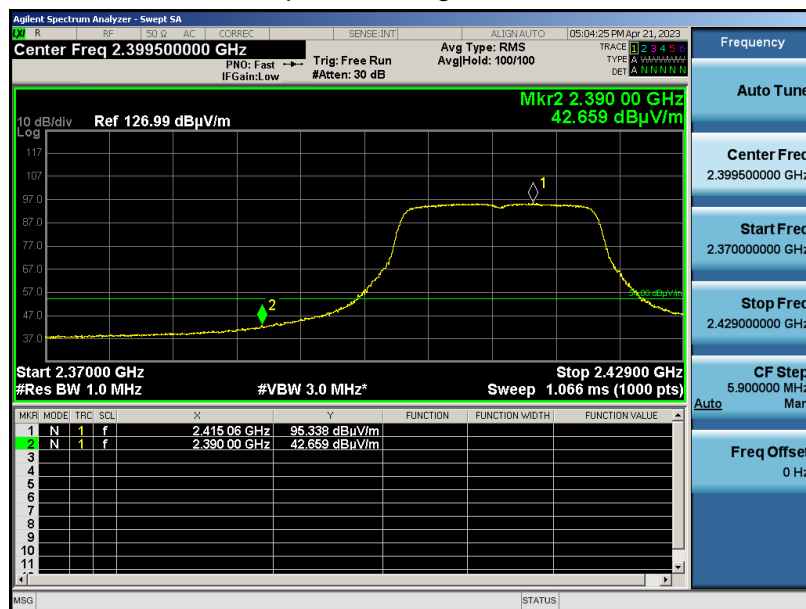
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

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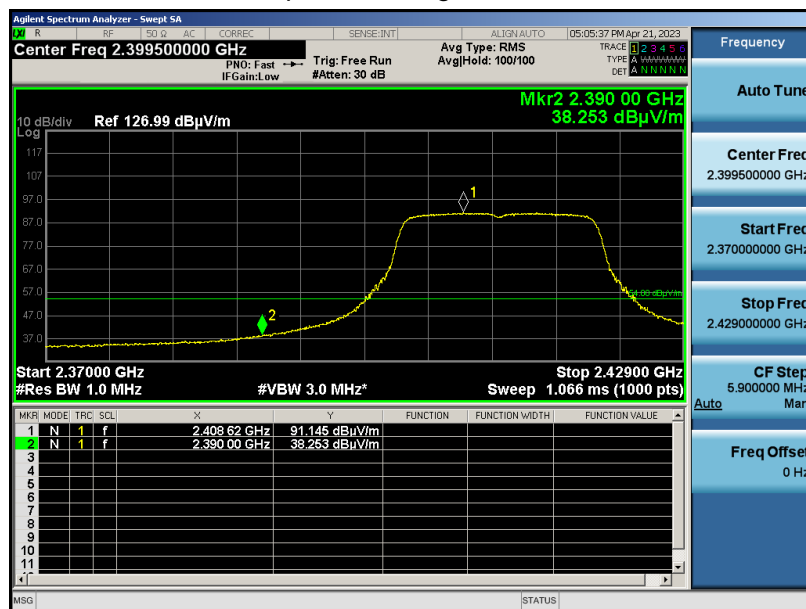
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

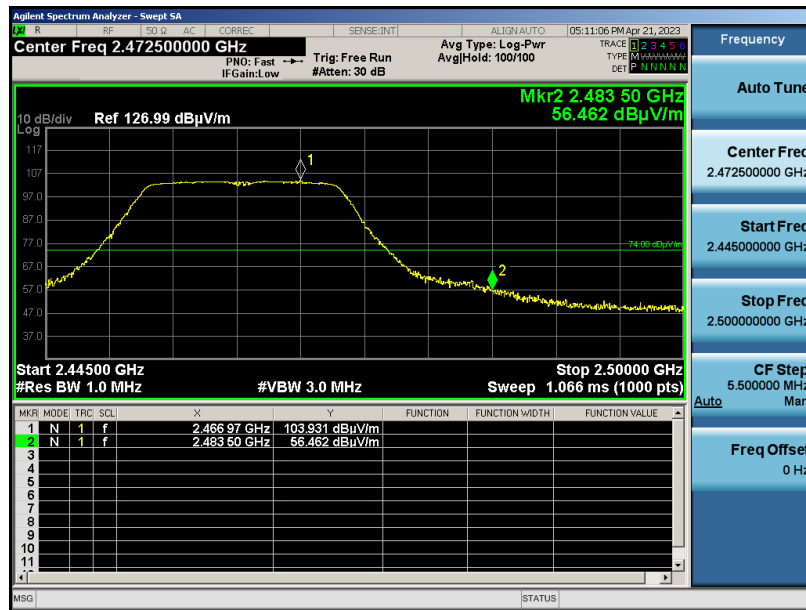


**RESULT: PASS**

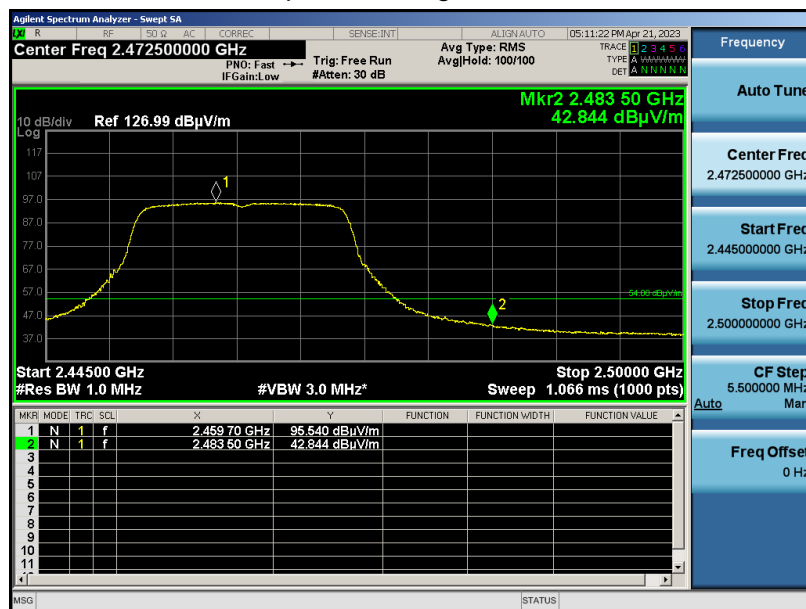
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

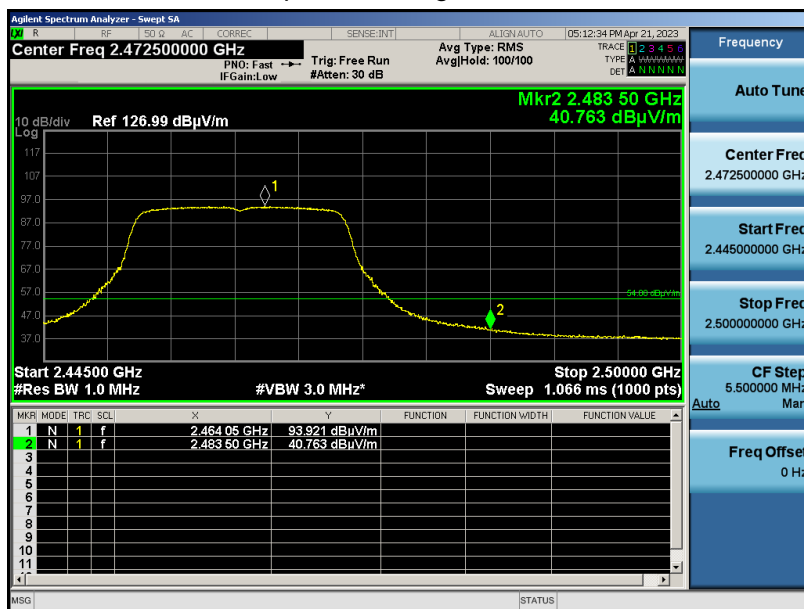
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

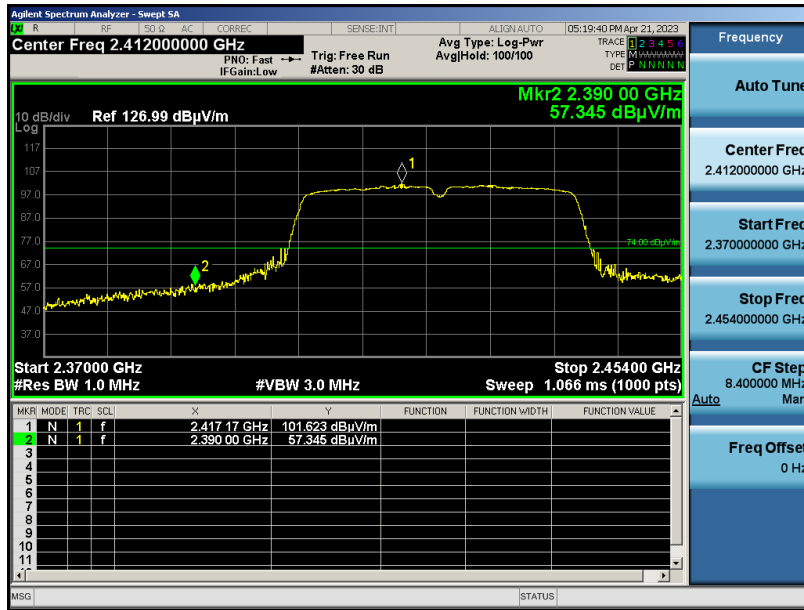


**RESULT: PASS**

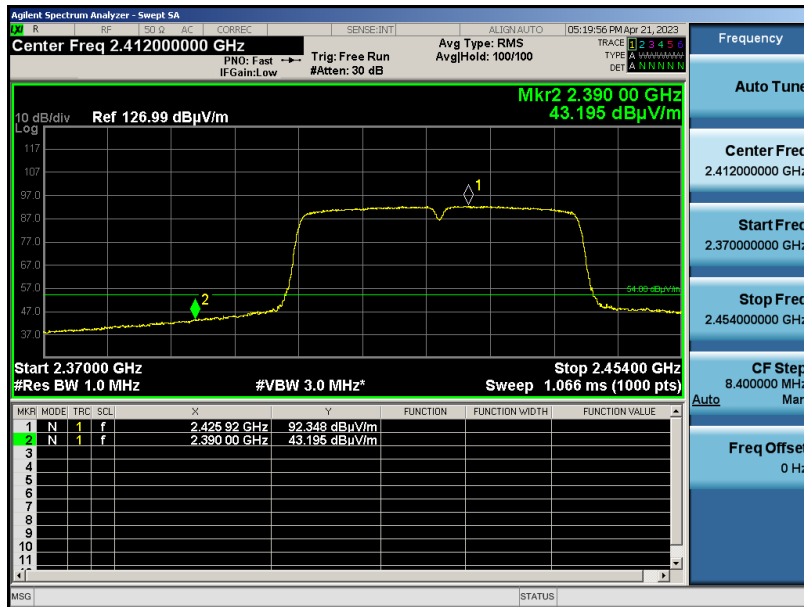
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EUT	Neurosens IMU sensor	Model Name	Neurosens IMU sensor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS**

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