

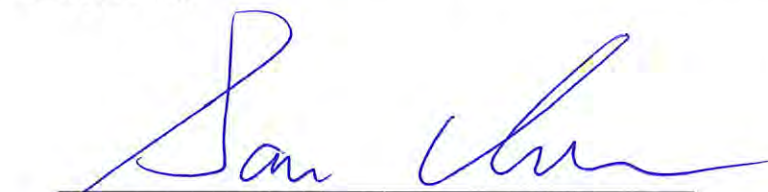


RADIO TEST REPORT

FCC ID : UDX-600216010
Equipment : Cisco Wireless 9179F Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9179F
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.247

The product was received on Nov. 29, 2024, and testing was started from Dec. 18, 2024 and completed on Mar. 24, 2025. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.


Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	18
1.3 Testing Location Information	18
1.4 Measurement Uncertainty	19
2 Test Configuration of EUT	20
2.1 Test Channel Mode	20
2.2 The Worst Case Measurement Configuration	23
2.3 EUT Operation during Test	28
2.4 Accessories	28
2.5 Support Equipment.....	29
2.6 Test Setup Diagram	31
3 Transmitter Test Result	34
3.1 AC Power-line Conducted Emissions	34
3.2 DTS Bandwidth.....	36
3.3 Maximum Conducted Output Power	37
3.4 Power Spectral Density	39
3.5 Emissions in Non-restricted Frequency Bands	41
3.6 Emissions in Restricted Frequency Bands.....	42
4 Test Equipment and Calibration Data	47
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Results of Radiated Emission Co-location	
Appendix H. Test Photos	
Photographs of EUT v01	



History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.3

Page Number : 3 of 49
Issued Date : Jul. 11, 2025
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.

Reviewed by: Sam Chen
Report Producer: Sophia Shiung



1 General Description

1.1 Information

1.1.1 RF General Information

<Radio 1>

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20)	2412-2462	1-11 [11]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	VHT20	20	1TX
2.4-2.4835GHz	802.11ax HEW20	20	1TX

**<Radio 2>**

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20), be (EHT20)	2412-2462	1-11 [11]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1, 2, 4TX
2.4-2.4835GHz	802.11g	20	1, 2, 4TX
2.4-2.4835GHz	802.11n HT20	20	1, 2, 4TX
2.4-2.4835GHz	802.11n HT20-BF	20	2, 4TX
2.4-2.4835GHz	VHT20	20	1, 2, 4TX
2.4-2.4835GHz	VHT20-BF	20	2, 4TX
2.4-2.4835GHz	802.11ax HEW20	20	1, 2, 4TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2, 4TX
2.4-2.4835GHz	802.11be EHT20	20	1, 2, 4TX
2.4-2.4835GHz	802.11be EHT20-BF	20	2, 4TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g and HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ HEW20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ EHT20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

<Internal Antenna>

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	WNC	57XPAD15.LAU	Dipole	U.FL	Radio 1
2	WNC	57XPAD15.MAU	Dipole	U.FL	
3	WNC	57XPAD15.AAU	Dipole	U.FL	Radio 2
4	WNC	57XPAD15.BAU	Dipole	U.FL	
5	WNC	57XPAD15.CAU	Dipole	U.FL	
6	WNC	57XPAD15.DAU	Dipole	U.FL	
7	WNC	57XPAD15.HAU	Dipole	U.FL	Radio 3
8	WNC	57XPAD15.HAU	Dipole	U.FL	
9	WNC	57XPAD15.IAU	Dipole	U.FL	
10	WNC	57XPAD15.IAU	Dipole	U.FL	
11	WNC	57XPAD15.JAU	Dipole	U.FL	Radio 4
12	WNC	57XPAD15.JAU	Dipole	U.FL	
13	WNC	57XPAD15.KAU	Dipole	U.FL	
14	WNC	57XPAD15.KAU	Dipole	U.FL	
15	WNC	57XPAD15.EAU	Dipole	U.FL	Radio 5
16	WNC	57XPAD15.EAU	Dipole	U.FL	
17	WNC	57XPAD15.FAU	Dipole	U.FL	
18	WNC	57XPAD15.FAU	Dipole	U.FL	
19	WNC	57XPAD15.NAU	Loop	U.FL	Radio 6
20	WNC	57XPAD15.PAU	PIFA	U.FL	Radio 7
21	WNC	57XPAD15.0DG	PIFA	U.FL	
22	WNC	57XPAD15.OAU	Patch	U.FL	Radio 8
23	WNC	57XPAD15.OAU	Patch	U.FL	

Ant.	Port	Gain (dBi)						Support
		WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz			
			UNII 1~2A	UNII 2C~3	UNII 5~6	UNII 7	UNII 8	
1	1	3.7	4.9	6.1	5.0	5.8	5.7	Radio 1
2	2	5.1	4.5	5.2	5.5	6.4	5.3	
3	1	5.0	-	-	-	-	-	Radio 2
4	2	4.3	-	-	-	-	-	
5	3	5.1	-	-	-	-	-	
6	4	5.3	-	-	-	-	-	



Ant.	Port	Gain (dBi)					Support
		WLAN 5GHz					
		Mode	UNII 1	UNII 2A	UNII 2C	UNII 3	
7	3	Boresight	9.3	9.4	9.7	9.8	Radio 3
		Steering	9.4	9.4	10.0	10.0	
8	4	Boresight	10.3	10.3	10.6	10.2	
		Steering	10.2	10.2	10.6	10.3	
9	2	Boresight	9.6	9.9	10.3	9.9	
		Steering	9.9	9.8	10.3	10.1	
10	1	Boresight	10.4	10.6	10.7	10.4	
		Steering	10.3	10.7	10.6	10.4	

Ant.	Port	Gain (dBi)					Support
		WLAN 6GHz					
		Mode	UNII 5	UNII 6	UNII 7	UNII 8	
11	3	Narrow Beam	9.2	9.0	9.0	9.1	Radio 4
		Wide Beam	5.4	4.9	5.3	6.0	
12	4	Narrow Beam	9.2	8.7	8.7	8.8	
		Wide Beam	5.1	5.2	5.2	5.4	
13	2	Narrow Beam	10.0	9.8	9.8	9.9	
		Wide Beam	6.4	6.2	6.5	6.9	
14	1	Narrow Beam	9.8	10.1	10.1	10.0	
		Wide Beam	5.6	6.2	6.2	7.0	

Ant.	Port	Gain (dBi)						Support
		WLAN 5GHz			Bluetooth / Zigbee	UWB	GPS	
		Mode	UNII 1	UNII 2A				
15	2	Boresight	8.6	8.8	-	-	-	Radio 5
		Steering	8.5	9.0	-	-	-	
16	1	Boresight	9.4	9.4	-	-	-	
		Steering	9.4	9.4	-	-	-	
17	4	Boresight	8.7	9.3	-	-	-	
		Steering	8.8	9.2	-	-	-	
18	3	Boresight	8.5	9.0	-	-	-	
		Steering	8.5	9.0	-	-	-	
19	1	-	-	-	6.1	-	-	Radio 6
20	1	-	-	-	-	-	3.8	Radio 7
21	1	-	-	-	-	-	3.5	
22	2	-	-	-	-	8.2	-	Radio 8
23	1	-	-	-	-	8.6	-	

**<External Antenna>**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support
1	1~4	CISCO	AIR-ANT2588P4M-NS	(Panel) Dual-polarized directional	N-Female Bulkhead	Radio 2, Radio 5
2	1~4	CISCO	AIR-ANT2566D4M-R	(Patch) Dual-Band Polarization-Diverse Directional Array	RP-TNC (with coupling ring)	
3	1~4	CISCO	AIR-ANT2566D4M-RS	(Patch) Dual-Band Polarization-Diverse Directional Array	RP-TNC (with coupling ring)	
4	1~4	CISCO	AIR-ANT2566P4W-R	(Patch) 4-element dual-band MIMO	RP-TNC	
5	1~4	CISCO	AIR-ANT2566P4W-RS	(Patch) 4-element dual-band MIMO	RP-TNC	
6	1~4	CISCO	CW-ANT-T-D3-N	Dipole	RP-TNC	Radio 7
7	1	CISCO	CW-ANT-GPS1-M-00	OMNI	MMCX	

Ant.	Gain (dBi)					Support
	Pol	WLAN 2.4GHz				
		Peak Gain	Internal Cable Loss	External Cable Loss	Net Gain	
1	V-Pol*2	9.1	0.83	0.5	7.77	Radio 2
	H-Pol*2	7.1	0.83		5.77	
2~3	V-Pol*2	6	0.83	-	5.17	
	H-Pol*2	6	0.83	-	5.17	
4~5	V-Pol*4	6	0.83	-	5.17	
6	-	6	0.83	-	5.17	

Ant.	Gain (dBi)					Support
	Pol	WLAN 5GHz				
		Peak Gain	Internal Cable Loss	External Cable Loss	Net Gain	
1	V-Pol*2	9.6	1.29	0.8	7.51	Radio 5
	H-Pol*2	7.8	1.29		5.71	
2~3	V-Pol*2	6	1.29	-	4.71	
	H-Pol*2	6	1.29	-	4.71	
4~5	V-Pol*4	6	1.29	-	4.71	
6	-	7.5	1.29	-	6.21	

Ant.	Gain (dBi)	Support
	GPS	
7	5	Radio 7

Note 1: The above information was declared by manufacturer.

Note 2: For external Ant. 1~6:

For radiated measurement: The external Ant. 1, 5 and 6 with the highest antenna gain for each type were selected for testing.

For conducted measurement:

NonTXBF power: The external Ant. 1 with the highest antenna gain was selected for testing.

NonTXBF PSD / TXBF power & PSD:

2.4GHz: The external Ant. 4 with the highest antenna array gain was selected for testing.

5GHz: The external Ant. 6 with the highest antenna array gain was selected for testing.

Note 3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,2) = 10^{G3/20} ; NSS1(g1,2) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where;

For nonTXBF power:

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
2	2.4G External	2TX	7.77	5.77	-	-	7.77	Cross-Polarized Antenna
		4TX	7.77	5.77	7.77	5.77	7.77	
	2.4G Internal	2TX	5	4.3	-	-	5	
		4TX	5	4.3	5.1	5.3	5.3	
3	5G UNII 1 (Note 4)	2TX	10.4	9.9	-	-	10.4	
		4TX	10.4	9.9	9.4	10.3	10.4	
	5G UNII 1 (Boresight)	2TX	10.4	9.6	-	-	10.4	
		4TX	10.4	9.6	9.3	10.3	10.4	
	5G UNII 2A (Note 4)	2TX	10.7	9.9	-	-	10.7	
		4TX	10.7	9.9	9.4	10.3	10.7	
	5G UNII 2A (Boresight)	2TX	10.6	9.9	-	-	10.6	
		4TX	10.6	9.9	9.4	10.3	10.6	
	5G UNII 2C (Note 4)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	10	10.6	10.7	
	5G UNII 2C (Boresight)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	9.7	10.6	10.7	
	5G UNII 2C (Steering)	2TX	10.6	10.3	-	-	10.6	
		4TX	10.6	10.3	10	10.6	10.6	



Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
3	5G UNII 3 (Note 4)	2TX	10.4	10.1	-	-	10.4	Cross-Polarized Antenna
		4TX	10.4	10.1	10	10.3	10.4	
	5G UNII 3 (Boresight)	2TX	10.4	9.9	-	-	10.4	
		4TX	10.4	9.9	9.8	10.2	10.4	
	5G UNII 3 (Steering)	2TX	10.4	10.1	-	-	10.4	
		4TX	10.4	10.1	10	10.3	10.4	
4	6G UNII 5 (Narrow Beam)	2TX	9.8	10	-	-	10	
		4TX	9.8	10	9.2	9.2	10	
	6G UNII 5 (Wide Beam)	2TX	5.6	6.4	-	-	6.4	
		4TX	5.6	6.4	5.4	5.1	6.4	
	6G UNII 6 (Narrow Beam)	2TX	10.1	9.8	-	-	10.1	
		4TX	10.1	9.8	9	8.7	10.1	
	6G UNII 6 (Wide Beam)	2TX	6.2	6.2	-	-	6.2	
		4TX	6.2	6.2	4.9	5.2	6.2	
	6G UNII 7 (Narrow Beam)	2TX	10.1	9.8	-	-	10.1	
		4TX	10.1	9.8	9	8.7	10.1	
	6G UNII 7 (Wide Beam)	2TX	6.2	6.5	-	-	6.5	
		4TX	6.2	6.5	5.3	5.2	6.5	
	6G UNII 8 (Narrow Beam)	2TX	10	9.9	-	-	10	
		4TX	10	9.9	9.1	8.8	10	
5	5G UNII 1~2A External	2TX	7.51	5.71	-	-	7.51	
		4TX	7.51	5.71	7.51	5.71	7.51	
	5G UNII 1 Internal (Note 4)	2TX	9.4	8.6	-	-	9.4	
		4TX	9.4	8.6	8.5	8.8	9.4	
	5G UNII 1 Internal (Boresight)	2TX	9.4	8.6	-	-	9.4	
		4TX	9.4	8.6	8.5	8.7	9.4	
	5G UNII 1 Internal (Steering)	2TX	9.4	8.5	-	-	9.4	
		4TX	9.4	8.5	8.5	8.8	9.4	
	5G UNII 2A Internal (Note 4)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.3	9.4	
	5G UNII 2A Internal (Boresight)	2TX	9.4	8.8	-	-	9.4	
		4TX	9.4	8.8	9	9.3	9.4	
	5G UNII 2A Internal (Steering)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.2	9.4	


For nonTXBF PSD / TXBF power & PSD:

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
2	2.4G External	2TX	5.17	5.17	-	-	8.18	-
		4TX	5.17	5.17	5.17	5.17	11.19	
	2.4G Internal	2TX	5	4.3	-	-	5	
		4TX	5	4.3	5.1	5.3	7.95	
3	5G UNII 1 (Note 4)	2TX	10.4	9.9	-	-	10.4	Cross-Polarized Antenna
		4TX	10.4	9.9	9.4	10.3	13.02	
	5G UNII 1 (Boresight)	2TX	10.4	9.6	-	-	10.4	
		4TX	10.4	9.6	9.3	10.3	12.93	
	5G UNII 2A (Note 4)	2TX	10.7	9.9	-	-	10.7	
		4TX	10.7	9.9	9.4	10.3	13.11	
	5G UNII 2A (Boresight)	2TX	10.6	9.9	-	-	10.6	
		4TX	10.6	9.9	9.4	10.3	13.08	
	5G UNII 2C (Note 4)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	10	10.6	13.42	
	5G UNII 2C (Boresight)	2TX	10.7	10.3	-	-	10.7	
		4TX	10.7	10.3	9.7	10.6	13.35	
	5G UNII 2C (Steering)	2TX	10.6	10.3	-	-	10.6	
		4TX	10.6	10.3	10	10.6	13.31	
	5G UNII 3 (Note 4)	2TX	10.4	10.1	-	-	10.4	
		4TX	10.4	10.1	10	10.3	13.21	
	5G UNII 3 (Boresight)	2TX	10.4	9.9	-	-	10.4	
		4TX	10.4	9.9	9.8	10.2	13.09	
	5G UNII 3 (Steering)	2TX	10.4	10.1	-	-	10.4	
		4TX	10.4	10.1	10	10.3	13.21	
4	6G UNII 5 (Narrow Beam)	2TX	9.8	10	-	-	10	
		4TX	9.8	10	9.2	9.2	12.57	
	6G UNII 5 (Wide Beam)	2TX	5.6	6.4	-	-	6.4	
		4TX	5.6	6.4	5.4	5.1	8.66	
	6G UNII 6 (Narrow Beam)	2TX	10.1	9.8	-	-	10.1	
		4TX	10.1	9.8	9	8.7	12.45	
	6G UNII 6 (Wide Beam)	2TX	6.2	6.2	-	-	6.2	
		4TX	6.2	6.2	4.9	5.2	8.67	
	6G UNII 7 (Narrow Beam)	2TX	10.1	9.8	-	-	10.1	
		4TX	10.1	9.8	9	8.7	12.45	
	6G UNII 7 (Wide Beam)	2TX	6.2	6.5	-	-	6.5	
		4TX	6.2	6.5	5.3	5.2	8.85	
	6G UNII 8 (Narrow Beam)	2TX	10	9.9	-	-	10	
		4TX	10	9.9	9.1	8.8	12.49	
	6G UNII 8 (Wide Beam)	2TX	7	6.9	-	-	7	
		4TX	7	6.9	6.0	5.4	9.38	

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
5	5G UNII 1~2A External	2TX	6.21	6.21	-	-	9.22	-
		4TX	6.21	6.21	6.21	6.21	12.23	
	5G UNII 1 Internal (Note 4)	2TX	9.4	8.6	-	-	9.4	Cross-Polarized Antenna
		4TX	9.4	8.6	8.5	8.8	12.19	
	5G UNII 1 Internal (Boresight)	2TX	9.4	8.6	-	-	9.4	
		4TX	9.4	8.6	8.5	8.7	11.82	
	5G UNII 1 Internal (Steering)	2TX	9.4	8.5	-	-	9.4	
		4TX	9.4	8.5	8.5	8.8	11.82	
	5G UNII 2A Internal (Note 4)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.3	12.19	
	5G UNII 2A Internal (Boresight)	2TX	9.4	8.8	-	-	9.4	
		4TX	9.4	8.8	9	9.3	12.14	
	5G UNII 2A Internal (Steering)	2TX	9.4	9	-	-	9.4	
		4TX	9.4	9	9	9.2	12.16	

Note 4: For RF Conducted: For internal Ant. 7~10 and Ant. 15~18, only the mode with higher antenna gain between Boresight mode and Steering mode was selected to record in this column and to perform all the test items, except for RF exposure tests.

Note 5: <Radio 1>

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax (1TX/2RX):

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax (1TX/2RX):

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax (1TX/2RX):

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

**<Radio 2>****For 2.4GHz function:****For IEEE 802.11 b/g/n/VHT/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 3>**For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 4>**For 6GHz function:****For IEEE 802.11 ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

**<Radio 5>****For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 6>**For Bluetooth function (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

For Zigbee function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

<Radio 7>**For GPS function (1RX):**

The EUT supports the antenna with RX diversity functions.

Internal Ant. 20~21 and external Ant. 7 can be used as receiving antenna, but only one of them will be used at one time.

<Radio 8>**For UWB function (1TX/2RX):**

Only Port 1 can be used as transmitting antenna.

Both Port 1 and 2 can be used as receiving antenna.

Port 1~2 could receive simultaneously.

**1.1.3 Mode Test Duty Cycle****<Radio 1>**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b	0.974	0.11	12.628m	100
802.11g	0.938	0.28	1.977m	1k
802.11ax HEW20	0.772	1.12	5.446m	200

<Radio 2>**Internal Antenna:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b_Nss 1,(1D)	0.983	0.07	664.375u	10
802.11g_Nss 1,(6D)	0.991	0.04	1.977m	10
802.11be EHT20_Nss 1,(M0)	0.997	0.01	5.453m	10
802.11be EHT20-BF_Nss 1,(M0)	0.997	0.01	5.453m	10

External Antenna:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b_Nss 1,(1D)	0.983	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g_Nss 1,(6D)	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT20_Nss 1,(M0)	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT20-BF_Nss 1,(M0)	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax/be in 2.4GHz (Radio 2), n/ac/ax/be in 5GHz (Radio 3 and Radio 5) and ax/be in 6GHz (Radio 4).			
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	Non-beamforming mode: QSPR Version 6.00.00142.1 Beamforming mode: DOS[10.0.19045.4780]			
Serial Number	For AC Conduction and Radiated below 1GHz tests: WNT284706NC For others: WNT284508JE			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Equipment Name	Model Name	BW of 5G Mode (MHz)	Radio 3	6G Mode	SW	Frequencies supported by 320MHz (MHz)
Cisco Wireless 9179F Series Wi-Fi 7 Access Point	CW9179F	20/40/80/160	UNII 1~3/ UNII 2C~3	6ID	Cisco	6105, 6265, 6425, 6745
				6SD		Not support
		20/40/80	UNII 2C~3	6ID&6PP	Meraki	6105, 6265, 6425, 6585, 6745, 6905
				6SD		6105

Note: The above information was declared by manufacturer.

1.1.6 Table for EUT Support Function

Function	Supports Band
AP	2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8, Bluetooth, Zigbee, UWB and GPS
Mesh	6GHz UNII 5~8

Note 1: Form above table list, only AP mode was tested and recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.7 Table for Radio Function

Function Radio (R)	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	Zigbee	UWB	GPS
R1 (Scanning Radio)	✓	✓ (UNII 1~3)	✓	-	-	-	-
R2	✓	-	-	-	-	-	-
R3	-	✓ (Note 1) (Full band: UNII 1~3) (High band: UNII 2C~3)	-	-	-	-	-
R4	-	-	✓	-	-	-	-
R5	-	✓ (Low band: UNII 1~2A)	-	-	-	-	-
R6	-	-	-	✓	✓	-	-
R7	-	-	-	-	-	-	✓
R8	-	-	-	-	-	✓	-

Note 1: For R3, the full band mode supports Boresight mode only, and the high band mode supports both Boresight mode and Steering mode.

Note 2: For WLAN 2.4GHz, R1 and R2 can't operate at the same frequency simultaneously.

For WLAN 5GHz, R1, R3 and R5 can't operate at the same frequency simultaneously.

For WLAN 6GHz, R1 and R4 can't operate at the same frequency simultaneously.

Note 3: The above information was declared by manufacturer.



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Ederson Huang	23.2~24.9 / 61~64	Dec. 18, 2024~ Jan. 24, 2025
Radiated < 1GHz	03CH05-CB	Jackson Peng	21.9~22.4 / 60~62	Feb. 19, 2025~ Feb. 25, 2025
Radiated > 1GHz	03CH06-CB	Jackson Peng	22.5~22.9 / 58~60	Feb. 06, 2025~ Feb. 08, 2025
	03CH01-CB		22.1~23.1 / 60~62	
Radiated (Co-location)	03CH05-CB	Jackson Peng	21.9~22.4 / 60~62	Mar. 24, 2025
AC Conduction	CO02-CB	Joe Chu	23~24 / 50~51	Jan. 21, 2025~ Feb. 06, 2025
				Mar. 18, 2025



1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

<Radio 1>

Mode
802.11b_Nss1,(1Mbps)_1TX
2412MHz
2437MHz
2462MHz
802.11g_Nss1,(6Mbps)_1TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11ax HEW20_Nss1,(MCS0)_1TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz

<Radio 2>

Internal Antenna:

Mode
802.11b_Nss1,(1Mbps)_1TX
2412MHz
2437MHz
2462MHz
802.11g_Nss1,(6Mbps)_1TX
2412MHz
2437MHz
2462MHz
802.11be EHT20_Nss1,(MCS0)_1TX
2412MHz
2437MHz
2462MHz
802.11b_Nss1,(1Mbps)_2TX
2412MHz
2437MHz
2462MHz
802.11g_Nss1,(6Mbps)_2TX
2412MHz
2437MHz
2462MHz
802.11be EHT20_Nss1,(MCS0)_2TX
2412MHz



Mode
2437MHz
2462MHz
802.11b_Nss1,(1Mbps)_4TX
2412MHz
2437MHz
2462MHz
802.11g_Nss1,(6Mbps)_4TX
2412MHz
2437MHz
2462MHz
802.11be EHT20_Nss1,(MCS0)_4TX
2412MHz
2417MHz
2437MHz
2462MHz
802.11be EHT20-BF_Nss1,(MCS0)_2TX
2412MHz
2437MHz
2462MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
2412MHz
2417MHz
2437MHz
2462MHz

External Antenna:

Mode
802.11b_Nss1,(1Mbps)_1TX
2412MHz
2437MHz
2462MHz
802.11g_Nss1,(6Mbps)_1TX
2412MHz
2437MHz
2462MHz
802.11be EHT20_Nss1,(MCS0)_1TX
2412MHz
2437MHz
2462MHz
802.11b_Nss1,(1Mbps)_2TX
2412MHz
2437MHz
2462MHz
802.11g_Nss1,(6Mbps)_2TX
2412MHz
2437MHz
2462MHz
802.11be EHT20_Nss1,(MCS0)_2TX
2412MHz



Mode
2437MHz
2462MHz
802.11b_Nss1,(1Mbps)_4TX
2412MHz
2437MHz
2462MHz
802.11g_Nss1,(6Mbps)_4TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11be EHT20_Nss1,(MCS0)_4TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11be EHT20-BF_Nss1,(MCS0)_2TX
2412MHz
2437MHz
2462MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz

Note:

- ♦ For Radio 1: Evaluated HEW20 / HEW40 mode only, due to similar modulation. The power setting of HT20 / HT40 / VHT20 / VHT40 modes are the same or lower than HEW20 / HEW40.
- ♦ For Radio 2: EHT20 / EHT40 covers HT20 / HT40 / VHT20 / VHT40 / HEW20 / HEW40 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 / HEW20 / HEW40 is the same or lower than EHT20 / EHT40.
- ♦ For Radio 2: The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been evaluated to be the worst case, so it was selected to test. The beamforming mode evaluates the output power only.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests									
Tests Item	AC power-line conducted emissions								
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz								
Operating Mode	Normal Link								
	R1 (2.4GHz/ 5GHz/6GHz)	R2 (2.4GHz)	R3 (5GHz)	R4 (6GHz)	R5 (5GHz)	R6 (BT/ Zigbee)	R7 (GPS)	R8 (UWB)	PoE
1	2.4GHz	Internal Ant.	Boresight	Narrow Beam	N/A	BT	Internal Ant. 20	✓	1 (Test LAN 0)
2									1 (Test LAN 1)
Mode 2 has been evaluated to be the worst case among Mode 1~2, so the measurement for Mode 3~9 will follow this same test mode.									
3	2.4GHz	Internal Ant.	Boresight	Narrow Beam	N/A	BT	Internal Ant. 20	✓	2 (Test LAN 1)
4									3 (Test LAN 1)
5									4 (Test LAN 1)
6									5 (Test LAN 1)
7									6 (Test LAN 1)
8									7 (Test LAN 1)
9									8 (Test LAN 1)
Mode 5 has been evaluated to be the worst case among Mode 1~9, so the measurement for Mode 10~11 will follow this same test mode.									
10	5GHz	Internal Ant.	Boresight	Narrow Beam	N/A	BT	Internal Ant. 20	✓	4 (Test LAN 1)
11	6GHz								
Mode 5 has been evaluated to be the worst case among Mode 1~11, so the measurement for Mode 12 will follow this same test mode.									
12	2.4GHz	Internal Ant.	Boresight	Narrow Beam	N/A	Zigbee	Internal Ant. 20	✓	4 (Test LAN 1)
Mode 5 has been evaluated to be the worst case among Mode 1~12, so the measurement for Mode 13~14 will follow this same test mode.									
13	2.4GHz	Internal Ant.	Boresight	Narrow Beam	N/A	BT	Internal Ant. 21	✓	4 (Test LAN 1)
14							External Ant. 7		
Mode 5 has been evaluated to be the worst case among Mode 1~14, so the measurement for Mode 15~19 will follow this same test mode.									
15	2.4GHz	Internal Ant.	Steering	Wide Beam	Internal Ant. (Steering)	BT	Internal Ant. 20	✓	4 (Test LAN 1)
16		External Ant. 1	Boresight	Narrow Beam	External Ant. 1				



Operating Mode	Normal Link								
	R1 (2.4GHz/ 5GHz/6GHz)	R2 (2.4GHz)	R3 (5GHz)	R4 (6GHz)	R5 (5GHz)	R6 (BT/ Zigbee)	R7 (GPS)	R8 (UWB)	PoE
17	2.4GHz	External Ant. 5	Boresight	Narrow Beam	External Ant. 5	BT	Internal Ant. 20	✓	4 (Test LAN 1)
18		External Ant. 6			External Ant. 6				
19		Internal Ant.			Internal Ant. (Boresight)				

For operating, mode 5 is the worst case and it was recorded in this test report.

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
Operating Mode	1 EUT_R1: 2.4GHz
	2 EUT_R2: 2.4GHz (Internal Ant.)
	3 EUT_R2: 2.4GHz (External Ant. 1)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Power Spectral Density
Test Condition	Conducted measurement at transmit chains
Operating Mode	1 EUT_R1: 2.4GHz
	2 EUT_R2: 2.4GHz (Internal Ant.)
	3 EUT_R2: 2.4GHz (External Ant. 4)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Maximum Conducted Output Power
Test Condition	Conducted measurement at transmit chains
Operating Mode	1 EUT_R1: 2.4GHz
	2 EUT_R2: 2.4GHz (Internal Ant.)
	3 EUT_R2: 2.4GHz - Non-beamforming mode (External Ant. 1) EUT_R2: 2.4GHz - Beamforming mode (External Ant. 4)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis_R1: 2.4GHz + PoE 1
2	EUT in Y axis_R1: 2.4GHz + PoE 2
3	EUT in Y axis_R1: 2.4GHz + PoE 3
4	EUT in Y axis_R1: 2.4GHz + PoE 4
5	EUT in Y axis_R1: 2.4GHz + PoE 5
6	EUT in Y axis_R1: 2.4GHz + PoE 6
7	EUT in Y axis_R1: 2.4GHz + PoE 7
8	EUT in Y axis_R1: 2.4GHz + PoE 8
Mode 4 has been evaluated to be the worst case among Mode 1~8, so the measurement for Mode 9~25 will follow this same test mode.	
9	EUT in Y axis_R1: 5GHz + PoE 4
10	EUT in Y axis_R1: 6GHz + PoE 4
11	EUT in Y axis_R2: 2.4GHz (Internal Ant.) + PoE 4
12	EUT in Y axis_R3: 5GHz (Boresight) + PoE 4
13	EUT in Y axis_R4: 6GHz (Narrow Beam) + PoE 4
14	EUT in Y axis_R5: 5GHz (Internal Ant. - Boresight) + PoE 4
15	EUT in Y axis_R6: Bluetooth + PoE 4
16	EUT in Y axis_R6: Zigbee + PoE 4
17	EUT in Y axis_R3: 5GHz (Steering) + PoE 4
18	EUT in Y axis_R4: 6GHz (Wide Beam) + PoE 4
19	EUT in Y axis_R5: 5GHz (Internal Ant. - Steering) + PoE 4
20	EUT in Y axis_R2: 2.4GHz (External Ant. 1) + PoE 4
21	EUT in Y axis_R2: 2.4GHz (External Ant. 5) + PoE 4
22	EUT in Y axis_R2: 2.4GHz (External Ant. 6) + PoE 4
23	EUT in Y axis_R5: 5GHz (External Ant. 1) + PoE 4
24	EUT in Y axis_R5: 5GHz (External Ant. 5) + PoE 4
25	EUT in Y axis_R5: 5GHz (External Ant. 6) + PoE 4



For operating, mode 13 is the worst case and it was recorded in this test report.

Operating Mode > 1GHz	CTX (Cabinet)
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis_R1: 2.4GHz
2	EUT in Y axis_R2: 2.4GHz (Internal Ant.)
3	EUT in Y axis_R2: 2.4GHz (External Ant.)

The Worst Case Mode for Following Conformance Tests

Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
Operating Mode > 1GHz	CTX (Harmonic & Bandedge)
1	EUT_R1: 2.4GHz
2	EUT_R2: 2.4GHz (Internal Ant.)
3	EUT_R2: 2.4GHz (External Ant. 1)

The Worst Case Mode for Following Conformance Tests

Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	R2: 2.4GHz (External Ant. 6) + R5: 5GHz (External Ant. 6)
2	R2: 2.4GHz (External Ant. 1) + R5: 5GHz (External Ant. 1)
3	R2: 2.4GHz (External Ant. 5) + R5: 5GHz (External Ant. 5)

For operating, mode 2 is the worst case and it was recorded in this test report.
Refer to Appendix G for Radiated Emission Co-location.



The Worst Case Mode for Following Conformance Tests								
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation							
Operating Mode	R1 (2.4GHz/5GHz/ 6GHz)	R2 (2.4GHz)	R3 (5GHz UNII 1~3/ 5GHz UNII 2C~3)	R4 (6GHz)	R5 (5GHz)	R6 (BT/ Zigbee)	R8 (UWB)	
1	2.4GHz	Internal Ant.	Full band: UNII 1~3 (Boresight)	Narrow Beam	N/A	BT	✓	
2	5GHz							
3	6GHz					Zigbee		
4	2.4GHz							
5	5GHz							
6	6GHz							
7	2.4GHz		High band: UNII 2C~3 (Steering)	Wide Beam	Internal Ant. (Steering)	BT		
8	5GHz							
9	6GHz					Zigbee		
10	2.4GHz							
11	5GHz							
12	6GHz							
13	2.4GHz	External Ant.	High band: UNII 2C~3 (Boresight)	Narrow Beam	External Ant.	BT		
14	5GHz							
15	6GHz					Zigbee		
16	2.4GHz							
17	5GHz							
18	6GHz							
19	2.4GHz	Internal Ant.			Internal Ant. (Boresight)	BT		
20	5GHz							
21	6GHz					Zigbee		
22	2.4GHz							
23	5GHz							
24	6GHz							
Refer to Sporton Test Report No.: FA4N2714-02 for Co-location RF Exposure Evaluation.								

Refer to Sporton Test Report No.: FA4N2714-02 for Co-location RF Exposure Evaluation.

Note: The PoEs were for measurement only and would not be marketed. Their information is shown as below:

Equipment	Brand	Model Name
PoE 1	Microsemi	PD-9001GR/AT/AC
PoE 2	PHIHONG	POE29U-1AT(PL)
PoE 3	DELTA	ADH-65AR B
PoE 4	PHIHONG	POEA33U-1ATE
PoE 5	PHIHONG	POE60U-1BT-X



Equipment	Brand	Model Name
PoE 6	PHIHONG	POE60U-BTA(X66M-R)
PoE 7	PHIHONG	POE60U-BTA(X664-R)
PoE 8	DELTA	ADH-65AR P

2.3 EUT Operation during Test

For CTX Mode:

For Conducted Mode:

Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

Beamforming mode:

During the test, the following programs under WIN 10 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "DOS[10.0.19045.4780]" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Radiated Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Bracket*1 (Optional)

IO Bazel*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 4 (1)	PHIHONG	POEA33U-1ATE	N/A
B	2.4G NB	DELL	E6400	N/A
C	5G NB	DELL	E6400	N/A
D	6G module	MTK	MT7927	N/A
E	6G NB	DELL	E6400	N/A
F	GPS Simulator	WELNAVIGATE	GS-100	N/A
G	LAN1 PC	ASUS	S300TA	TX2-RTL8821CE
H	PoE 4 (2)	PHIHONG	POEA33U-1ATE	N/A
I	LAN0 PC	ASUS	S300TA	TX2-RTL8821CE
J	Smart phone	REDMI	M1810F6LH	2AFZZ-RMSF6LG
K	UWB Device	CISCO	DB10	N/A

For Radiated (Others) and RF Conducted (Non-beamforming mode):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A

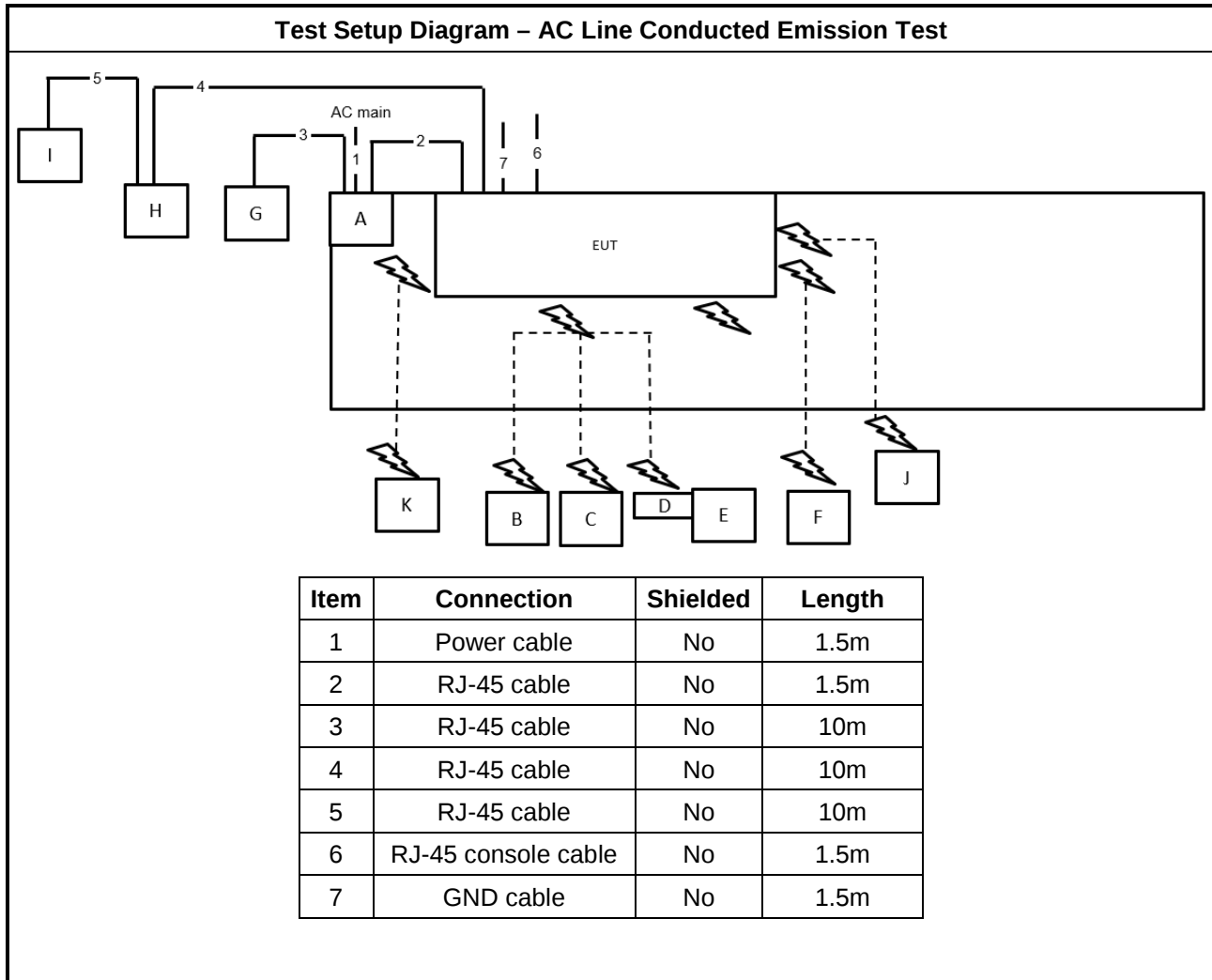
For Radiated (Co-location):

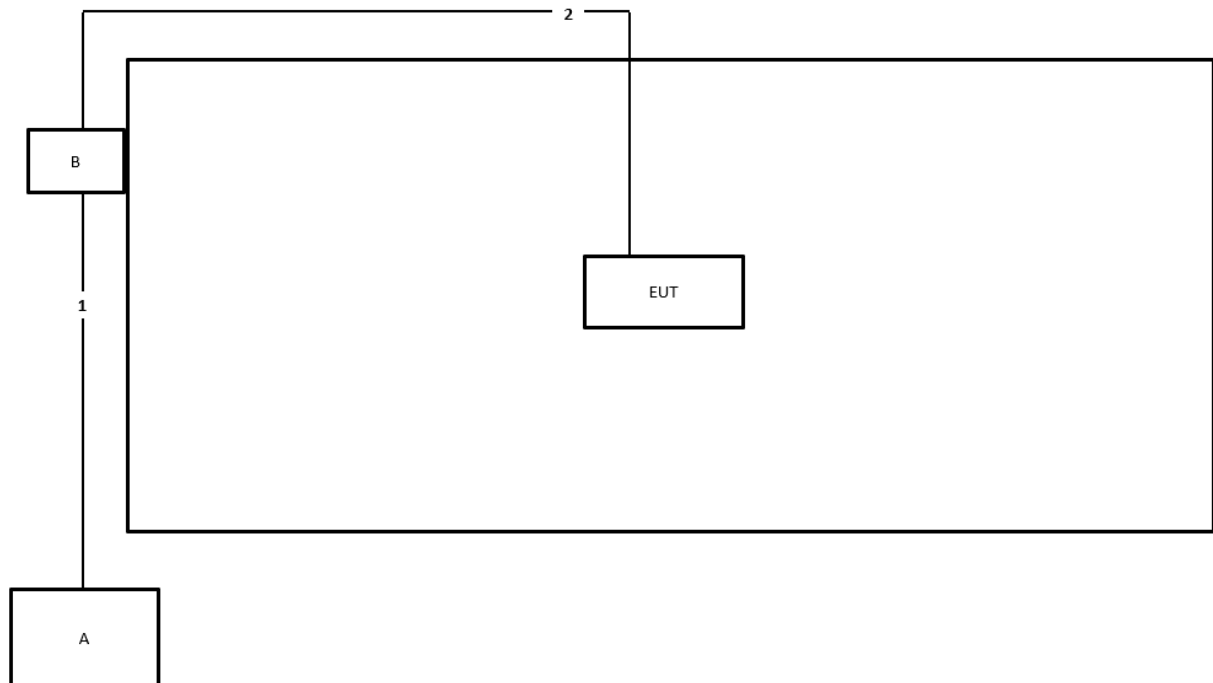
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A
C	NB	DELL	E4300	N/A
D	PoE	CISCO	MA-INJ-5	N/A
E	Client	CISCO	Alpine	N/A

**For RF Conducted (Beamforming mode):**

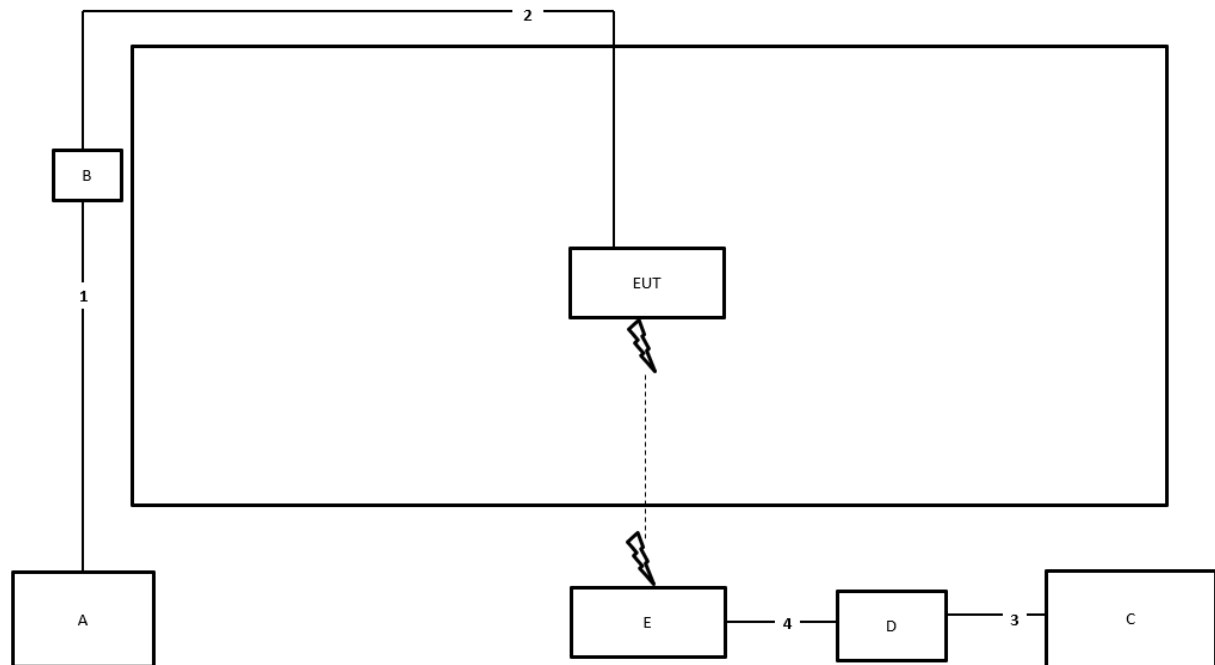
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 4	PHIHONG	POEA33U-1ATE	N/A
C	NB	DELL	E4300	N/A
D	Client	CISCO	Alpine	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test (Others)


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test (Co-location)


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1m
4	RJ-45 cable	No	10m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

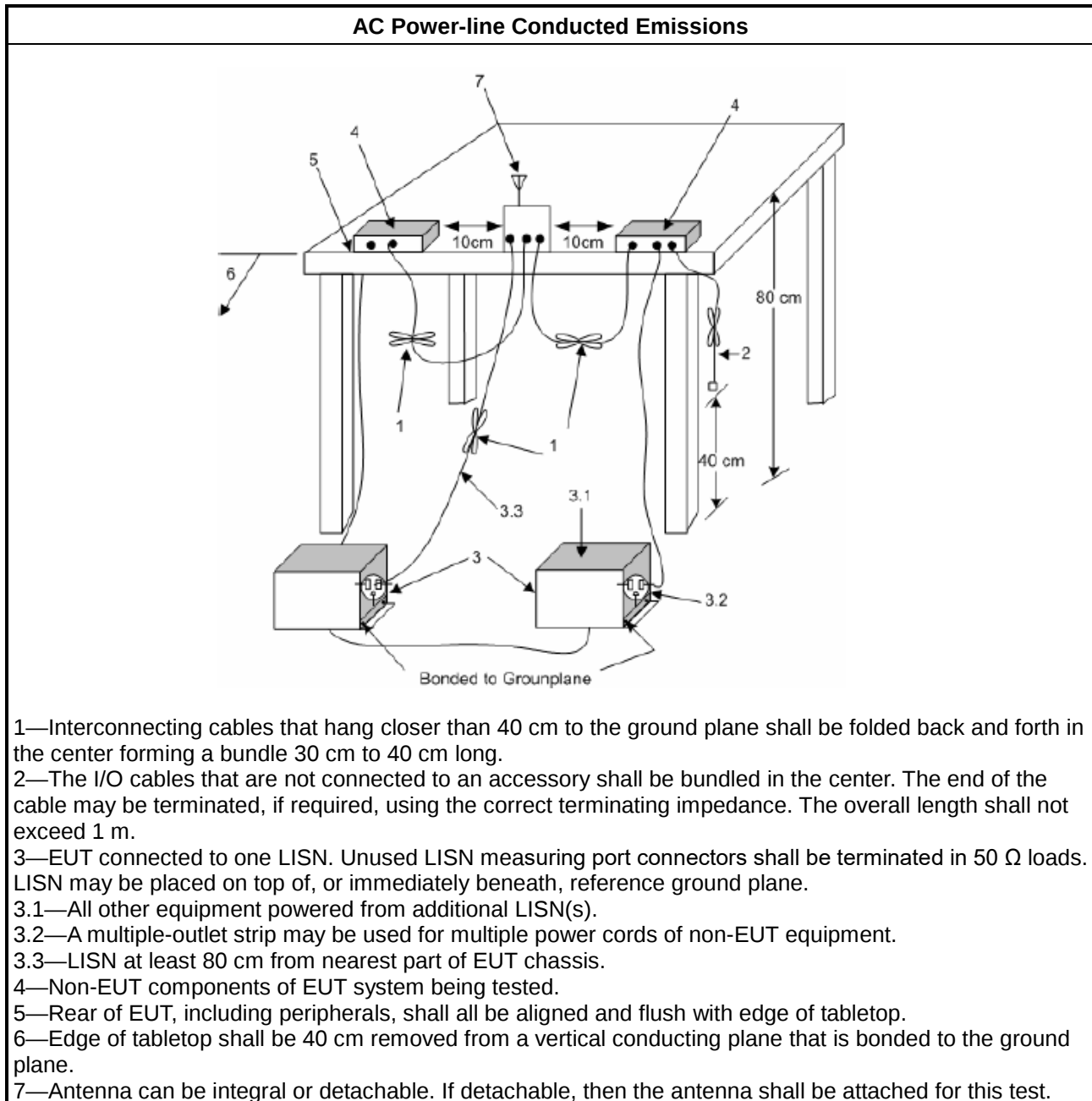
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

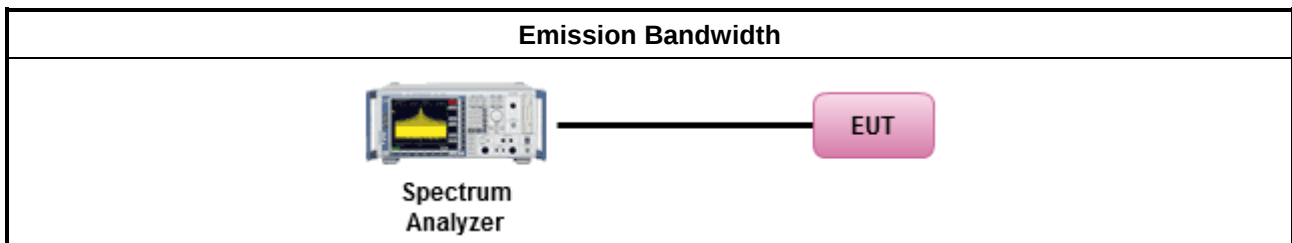
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

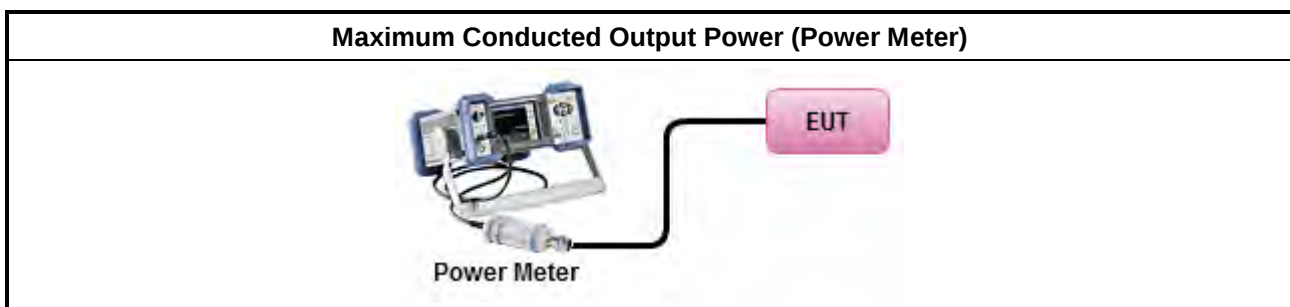
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW $\geq$ EBW method).
	☐ Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
	[duty cycle $\geq$ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
	Measurement using a power meter (PM)
	☐ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	☒ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).

For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

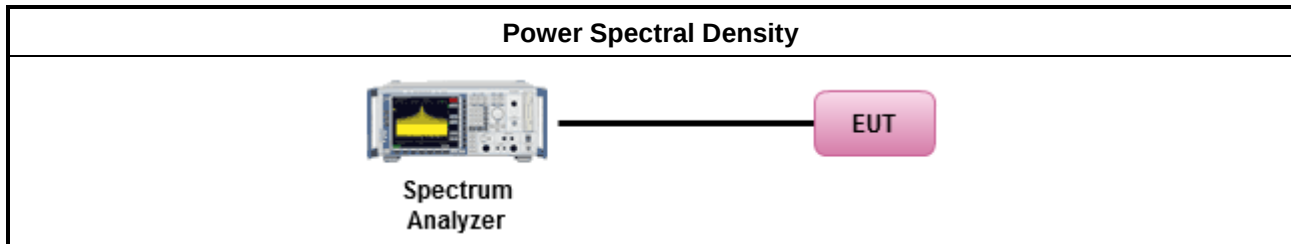
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

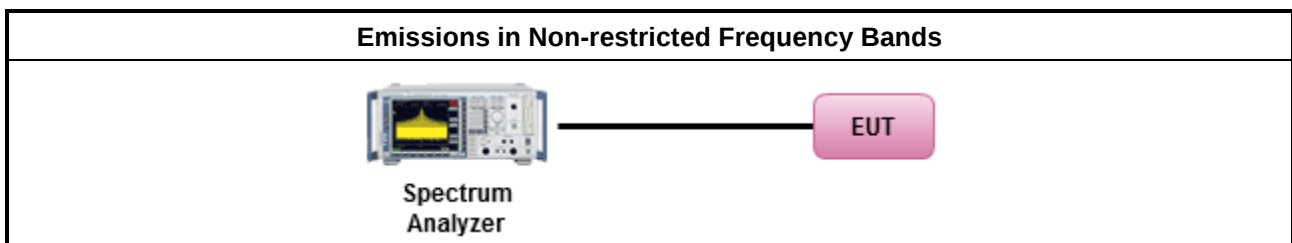
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

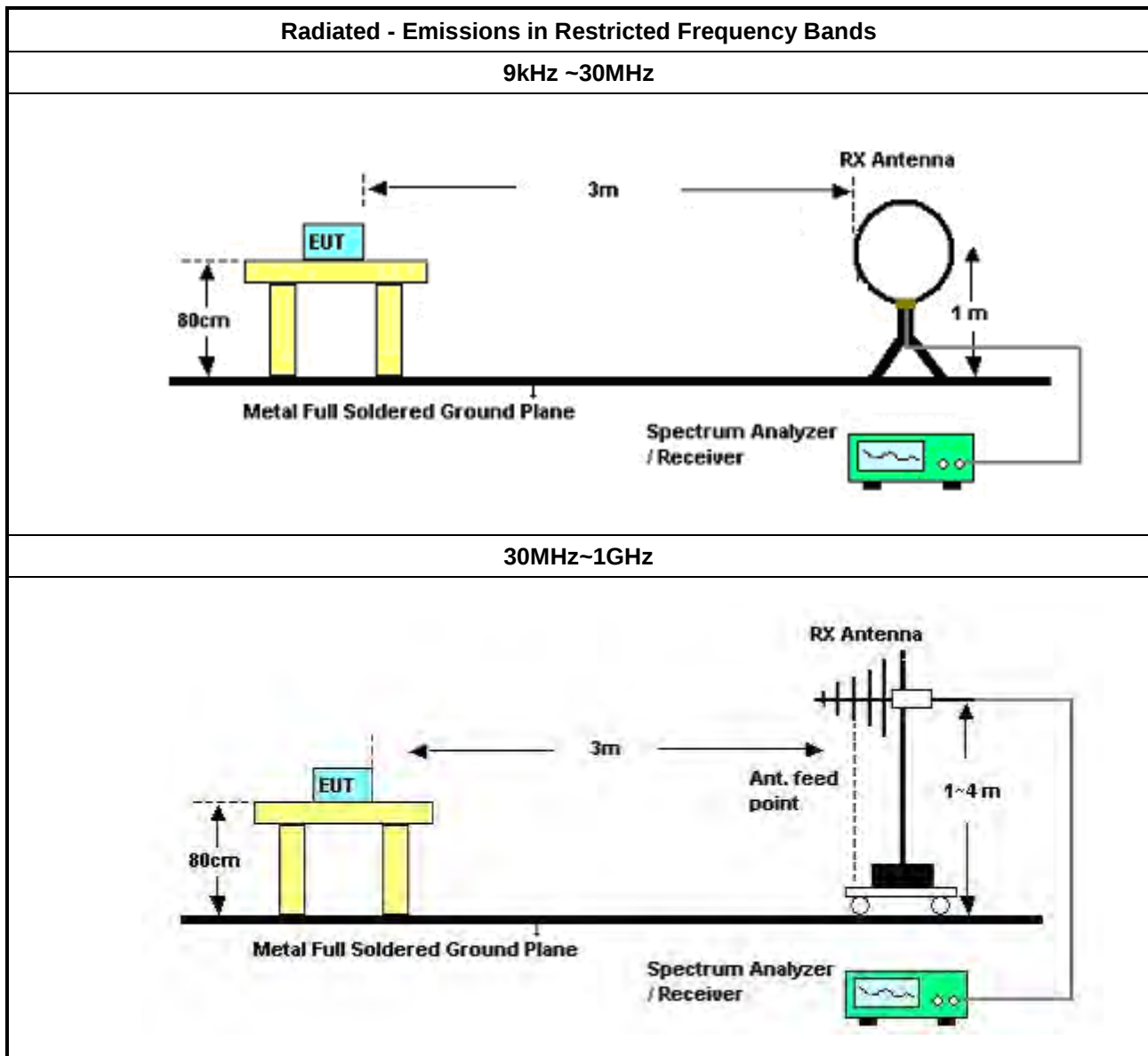
**3.6.3 Test Procedures**

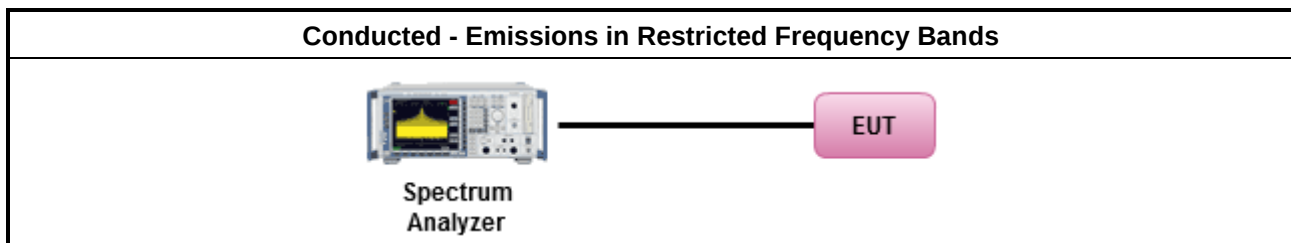
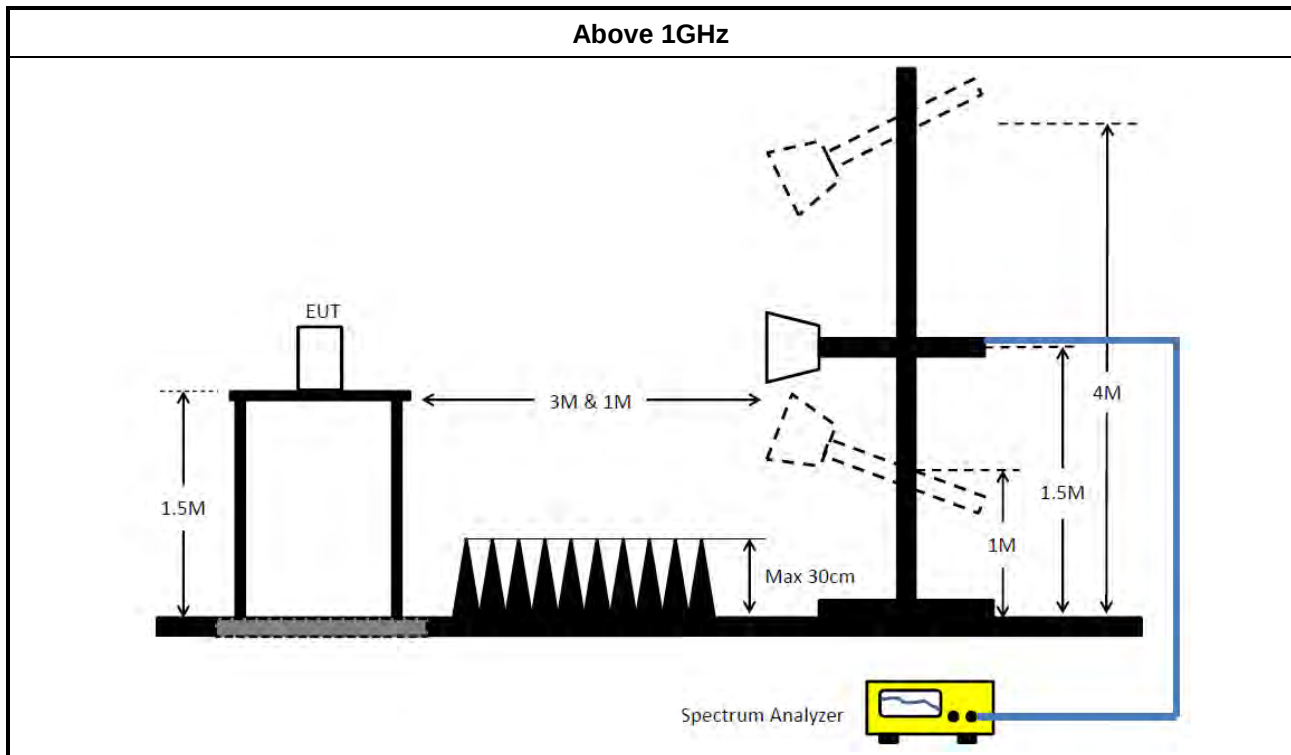
Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.



Test Method	
	▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.2.
	▪ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Apr. 15, 2024	Apr. 14, 2025	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 15, 2024	May 14, 2025	Conduction (CO02-CB)
COND Cable	Woken	Cable	02	0.15MHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 01, 2024	Jul. 31, 2025	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 23, 2024	Mar. 22, 2025	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2024	May 01, 2025	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 17, 2024	Apr. 16, 2025	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz~18GHz 3m	Sep. 28, 2024	Sep. 27, 2025	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 08, 2024	Oct. 07, 2025	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH06-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 18GHz	Jul. 31, 2024	Jul. 30, 2025	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-15247_DTS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 04, 2024	May 03, 2025	Radiation (03CH01-CB)
Horn Antenna	ETS-Lindgren	3115	00143147	750MHz~18GHz	Oct. 18, 2024	Oct. 17, 2025	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 17, 2024	May 16, 2025	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Dec. 12, 2024	Dec. 11, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-15247_DTS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-15247_DTS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.



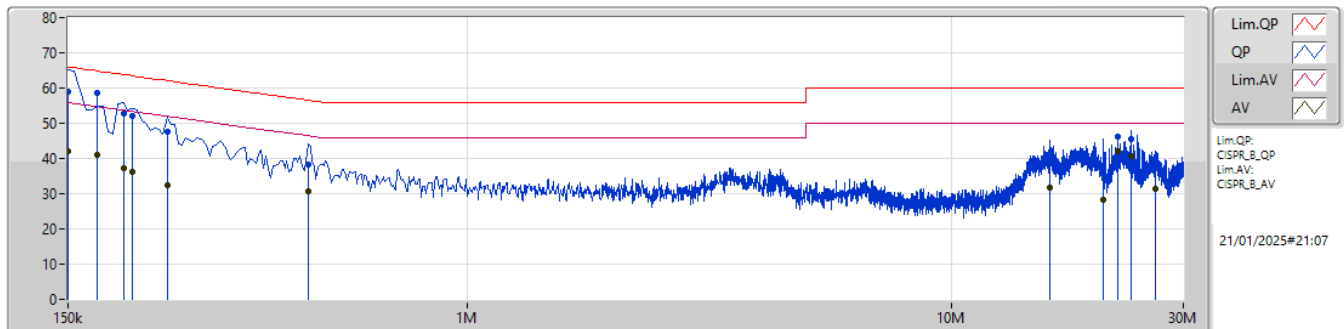
Conducted Emissions at Powerline

Appendix A

Summary

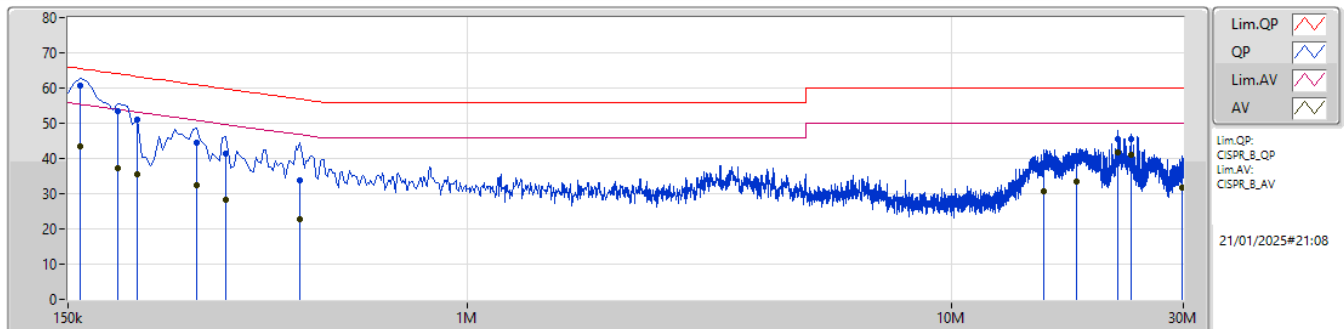
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 5	Pass	QP	159k	60.69	65.52	-4.83	Neutral

Mode 5



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	58.86	66.00	-7.14	10.15	Line	-	48.71	0.05	0.08	10.02						
AV	150k	41.91	56.00	-14.09	10.15	Line	-	31.76	0.05	0.08	10.02						
QP	172.5k	58.48	64.83	-6.35	10.14	Line	"Worst"	48.34	0.05	0.07	10.02						
AV	172.5k	40.98	54.83	-13.85	10.14	Line	-	30.84	0.05	0.07	10.02						
QP	195k	52.89	63.82	-10.93	10.14	Line	-	42.75	0.05	0.07	10.02						
AV	195k	37.14	53.82	-16.68	10.14	Line	-	27.00	0.05	0.07	10.02						
QP	204k	52.00	63.44	-11.44	10.14	Line	-	41.86	0.05	0.07	10.02						
AV	204k	36.16	53.44	-17.28	10.14	Line	-	26.02	0.05	0.07	10.02						
QP	240k	47.42	62.10	-14.68	10.15	Line	-	37.27	0.05	0.08	10.02						
AV	240k	32.51	52.10	-19.59	10.15	Line	-	22.36	0.05	0.08	10.02						
QP	469.5k	38.21	56.52	-18.31	10.18	Line	-	28.03	0.05	0.10	10.03						
AV	469.5k	30.68	46.52	-15.84	10.18	Line	-	20.50	0.05	0.10	10.03						
QP	15.909M	38.70	60.00	-21.30	10.61	Line	-	28.09	0.34	0.24	10.03						
AV	15.909M	31.76	50.00	-18.24	10.61	Line	-	21.15	0.34	0.24	10.03						
QP	20.477M	35.60	60.00	-24.40	10.74	Line	-	24.86	0.40	0.33	10.01						
AV	20.477M	28.43	50.00	-21.57	10.74	Line	-	17.69	0.40	0.33	10.01						
QP	21.957M	46.04	60.00	-13.96	10.78	Line	-	35.26	0.44	0.32	10.02						
AV	21.957M	42.01	50.00	-7.99	10.78	Line	-	31.23	0.44	0.32	10.02						
QP	23.451M	45.59	60.00	-14.41	10.81	Line	-	34.78	0.47	0.32	10.02						
AV	23.451M	40.67	50.00	-9.33	10.81	Line	-	29.86	0.47	0.32	10.02						
QP	26.21M	37.46	60.00	-22.54	10.90	Line	-	26.56	0.53	0.32	10.05						
AV	26.21M	31.34	50.00	-18.66	10.90	Line	-	20.44	0.53	0.32	10.05						

Mode 5



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	159k	60.69	65.52	-4.83	10.15	Neutral	"Worst"	50.54	0.05	0.08	10.02						
AV	159k	43.58	55.52	-11.94	10.15	Neutral	-	33.43	0.05	0.08	10.02						
QP	190.5k	53.52	64.01	-10.49	10.14	Neutral	-	43.38	0.05	0.07	10.02						
AV	190.5k	37.15	54.01	-16.86	10.14	Neutral	-	27.01	0.05	0.07	10.02						
QP	208.5k	51.08	63.27	-12.19	10.14	Neutral	-	40.94	0.05	0.07	10.02						
AV	208.5k	35.52	53.27	-17.75	10.14	Neutral	-	25.38	0.05	0.07	10.02						
QP	276k	44.53	60.93	-16.40	10.15	Neutral	-	34.38	0.05	0.08	10.02						
AV	276k	32.51	50.93	-18.42	10.15	Neutral	-	22.36	0.05	0.08	10.02						
QP	316.5k	41.25	59.80	-18.55	10.17	Neutral	-	31.08	0.05	0.09	10.03						
AV	316.5k	28.36	49.80	-21.44	10.17	Neutral	-	18.19	0.05	0.09	10.03						
QP	451.5k	33.75	56.84	-23.09	10.18	Neutral	-	23.57	0.05	0.10	10.03						
AV	451.5k	22.83	46.84	-24.01	10.18	Neutral	-	12.65	0.05	0.10	10.03						
QP	15.486M	37.42	60.00	-22.58	10.50	Neutral	-	26.92	0.24	0.23	10.03						
AV	15.486M	30.54	50.00	-19.46	10.50	Neutral	-	20.04	0.24	0.23	10.03						
QP	18.083M	39.80	60.00	-20.20	10.56	Neutral	-	29.24	0.25	0.29	10.02						
AV	18.083M	33.57	50.00	-16.43	10.56	Neutral	-	23.01	0.25	0.29	10.02						
QP	21.957M	45.68	60.00	-14.32	10.62	Neutral	-	35.06	0.28	0.32	10.02						
AV	21.957M	41.81	50.00	-8.19	10.62	Neutral	-	31.19	0.28	0.32	10.02						
QP	23.451M	45.66	60.00	-14.34	10.63	Neutral	-	35.03	0.29	0.32	10.02						
AV	23.451M	41.15	50.00	-8.85	10.63	Neutral	-	30.52	0.29	0.32	10.02						
QP	29.846M	37.75	60.00	-22.25	10.76	Neutral	-	26.99	0.33	0.33	10.10						
AV	29.846M	31.61	50.00	-18.39	10.76	Neutral	-	20.85	0.33	0.33	10.10						

**Summary**

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.6M	14.341M	14M3G1D	8.05M	13.559M
802.11g_Nss1,(6Mbps)_1TX	16.375M	23.442M	23M4D1D	15.625M	16.311M
802.11ax HEW20_Nss1,(MCS0)_1TX	19M	25.137M	25M1D1D	18.8M	18.935M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

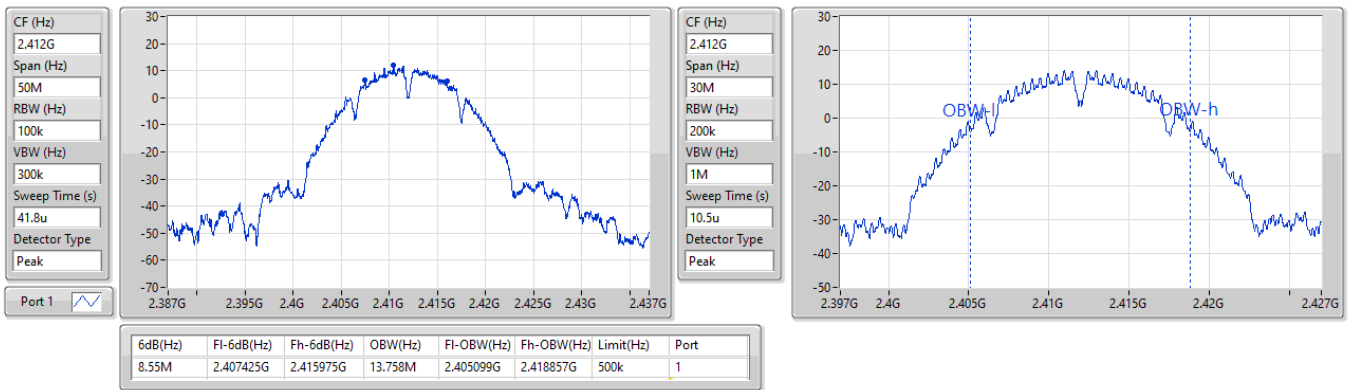
Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW
		(Hz)	(Hz)	(Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.55M	13.758M
2437MHz	Pass	500k	8.6M	14.341M
2462MHz	Pass	500k	8.05M	13.559M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	15.625M	16.411M
2437MHz	Pass	500k	16.35M	23.442M
2462MHz	Pass	500k	16.375M	16.311M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	18.825M	18.942M
2437MHz	Pass	500k	19M	25.137M
2462MHz	Pass	500k	18.8M	18.935M

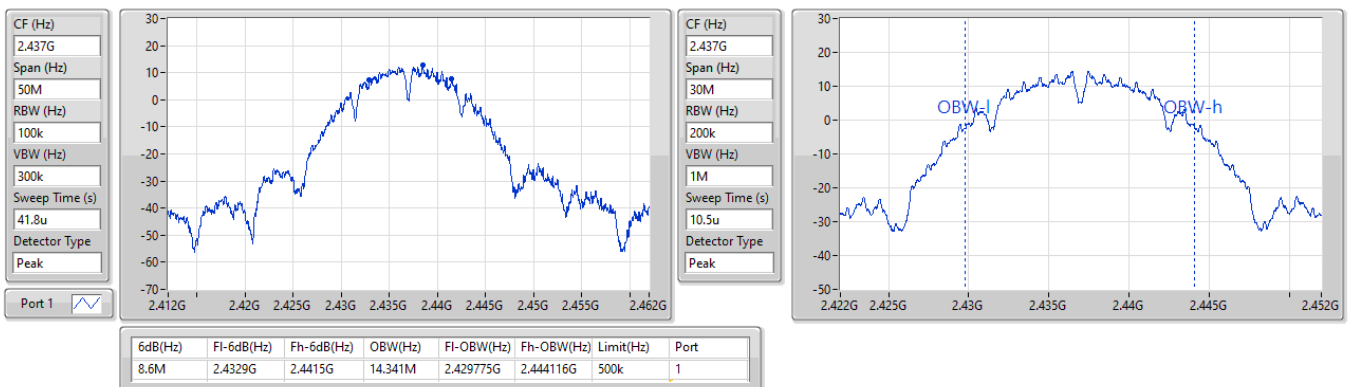
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

21/12/2024

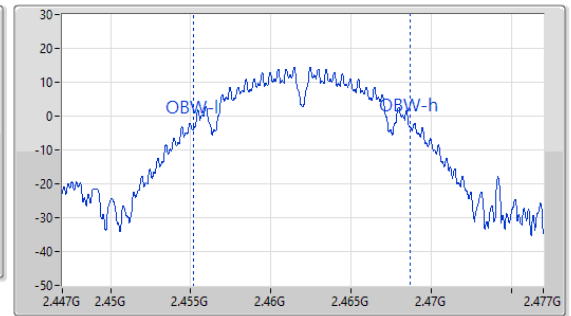
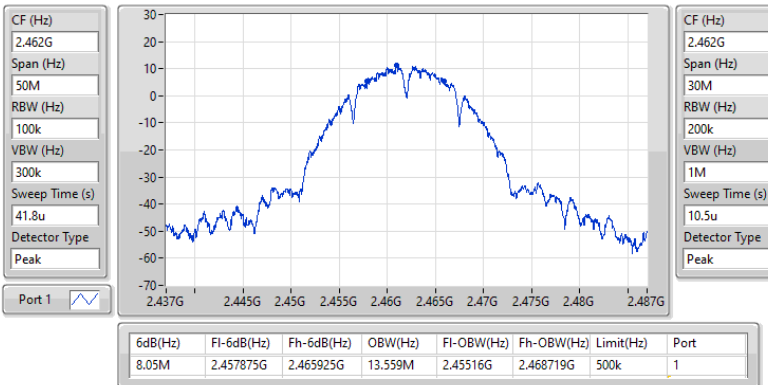

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

21/12/2024

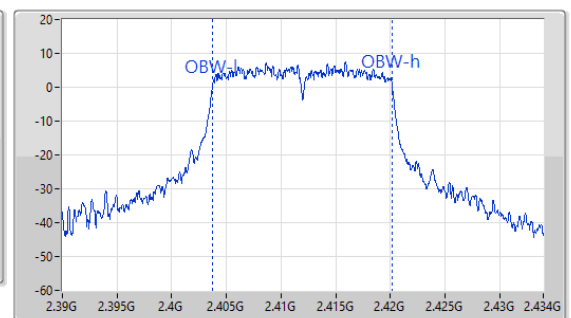
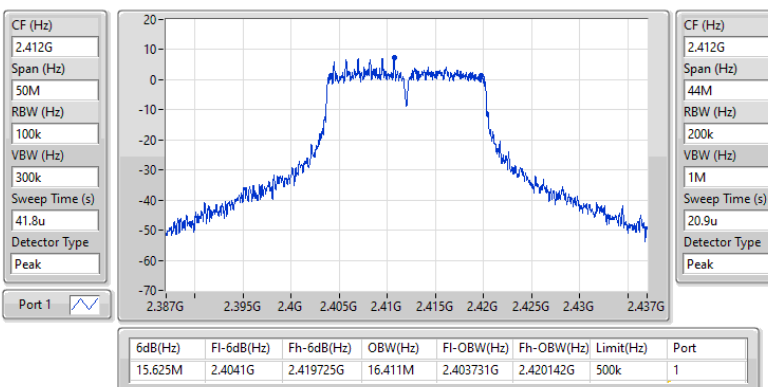


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

21/12/2024

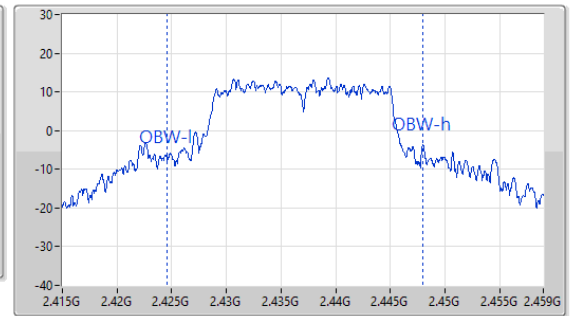
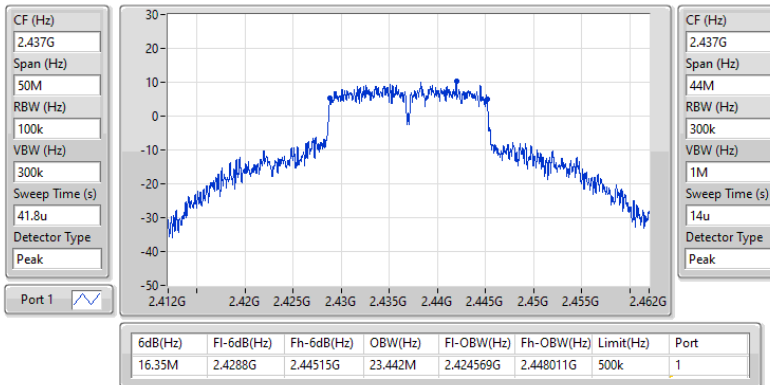

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

21/12/2024

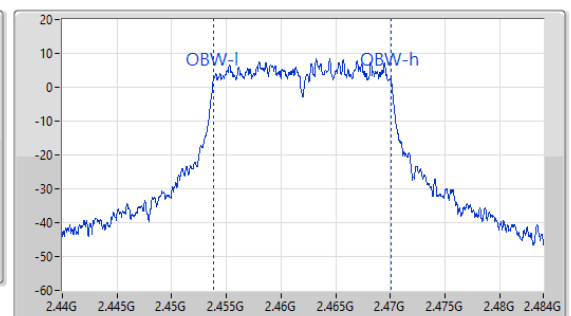
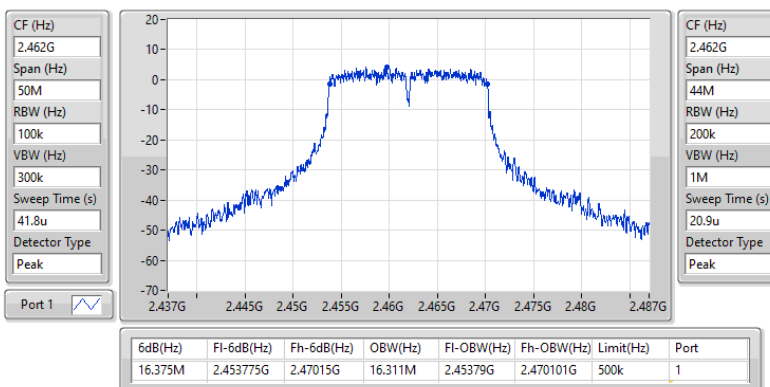


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

21/12/2024

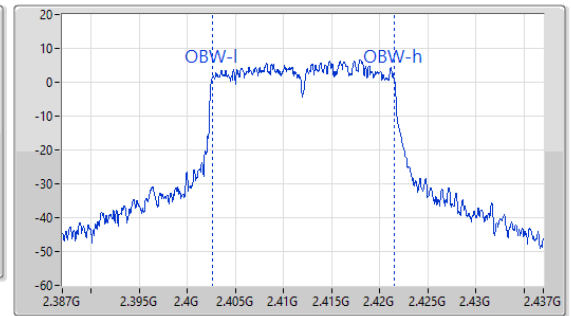
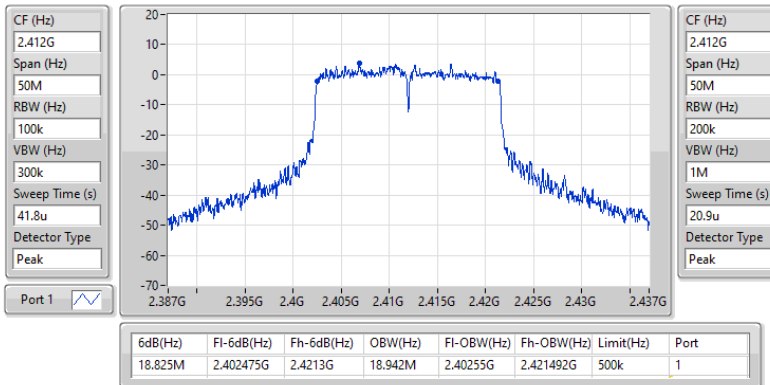

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

21/12/2024

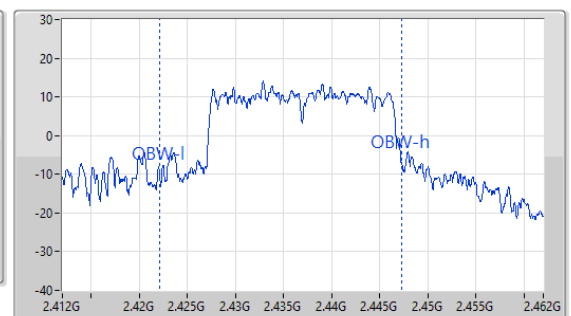
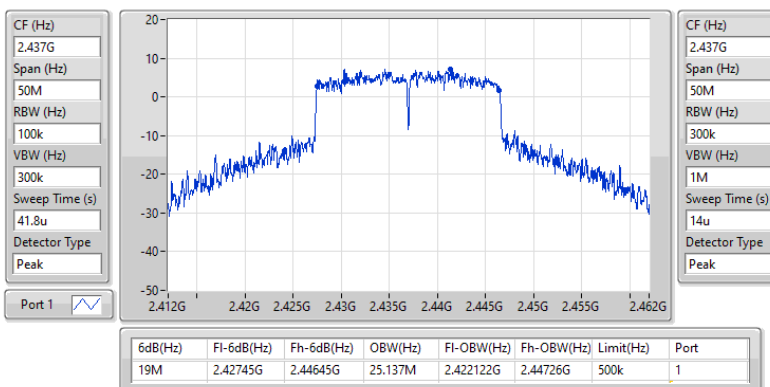


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
2412MHz

21/12/2024


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
2437MHz

21/12/2024

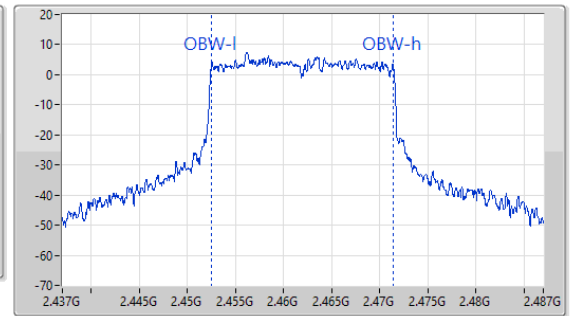
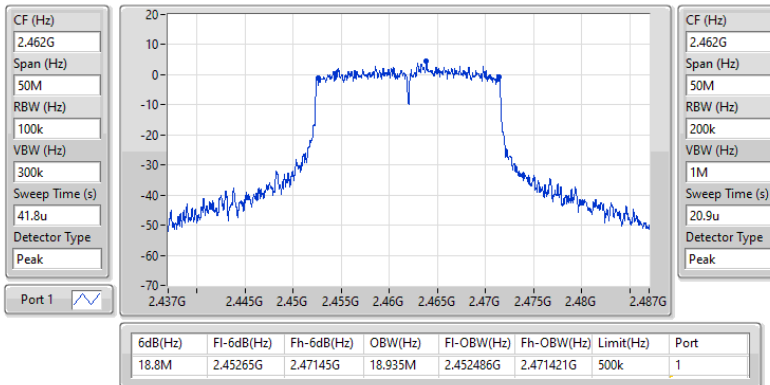


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2462MHz

21/12/2024



Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	13.1M	16.058M	16M1G1D	12.05M	16.035M
802.11b_Nss1,(1Mbps)_2TX	13.575M	16.051M	16M1G1D	12.05M	16.035M
802.11b_Nss1,(1Mbps)_4TX	13.35M	16.043M	16M0G1D	11.575M	16.009M
802.11g_Nss1,(6Mbps)_1TX	16.6M	16.658M	16M7D1D	16.3M	16.561M
802.11g_Nss1,(6Mbps)_2TX	16.525M	16.786M	16M8D1D	16.35M	16.615M
802.11g_Nss1,(6Mbps)_4TX	16.575M	17M	17M0D1D	16.35M	16.607M
802.11be EHT20_Nss1,(MCS0)_1TX	19.1M	19.024M	19M0D1D	19.025M	18.981M
802.11be EHT20_Nss1,(MCS0)_2TX	19.15M	19.04M	19M0D1D	19.05M	18.987M
802.11be EHT20_Nss1,(MCS0)_4TX	19.15M	19.072M	19M1D1D	19.075M	18.966M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

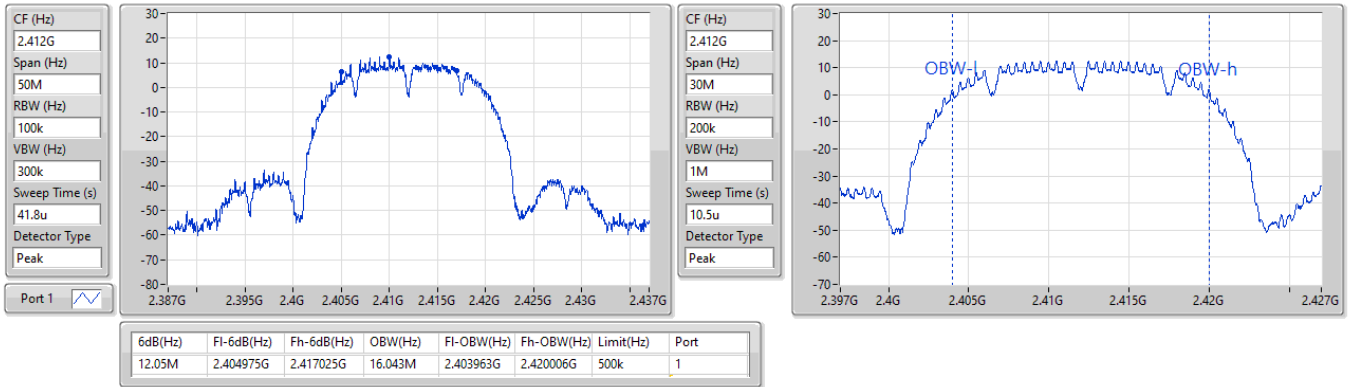
Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW	Port 3-N dB	Port 3-OBW	Port 4-N dB	Port 4-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	12.05M	16.043M						
2437MHz	Pass	500k	12.775M	16.058M						
2462MHz	Pass	500k	13.1M	16.035M						
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.3M	16.561M						
2437MHz	Pass	500k	16.5M	16.561M						
2462MHz	Pass	500k	16.6M	16.658M						
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	19.025M	18.981M						
2437MHz	Pass	500k	19.1M	19.024M						
2462MHz	Pass	500k	19.1M	18.995M						
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	13.05M	16.045M	13.05M	16.04M				
2437MHz	Pass	500k	13.1M	16.046M	13.575M	16.046M				
2462MHz	Pass	500k	13.55M	16.035M	12.05M	16.051M				
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.475M	16.615M	16.5M	16.774M				
2437MHz	Pass	500k	16.525M	16.786M	16.5M	16.727M				
2462MHz	Pass	500k	16.35M	16.783M	16.525M	16.671M				
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	19.1M	19.011M	19.125M	19.029M				
2437MHz	Pass	500k	19.15M	19.012M	19.1M	18.987M				
2462MHz	Pass	500k	19.05M	19.04M	19.075M	19.007M				
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	13.1M	16.039M	13.35M	16.025M	13.075M	16.035M	11.575M	16.009M
2437MHz	Pass	500k	13.05M	16.035M	13.1M	16.023M	13.075M	16.032M	13.05M	16.012M
2462MHz	Pass	500k	13.05M	16.031M	13.05M	16.043M	13.05M	16.042M	13.05M	16.034M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.575M	16.689M	16.45M	16.684M	16.55M	16.75M	16.55M	16.735M
2437MHz	Pass	500k	16.55M	16.607M	16.55M	16.74M	16.525M	16.745M	16.55M	17M
2462MHz	Pass	500k	16.45M	16.636M	16.525M	16.667M	16.35M	16.635M	16.5M	16.668M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	19.1M	19.001M	19.1M	18.982M	19.125M	18.979M	19.075M	19.072M
2437MHz	Pass	500k	19.15M	18.988M	19.125M	18.966M	19.1M	19.007M	19.1M	19.036M
2462MHz	Pass	500k	19.125M	19.016M	19.1M	18.991M	19.125M	19.057M	19.1M	18.981M

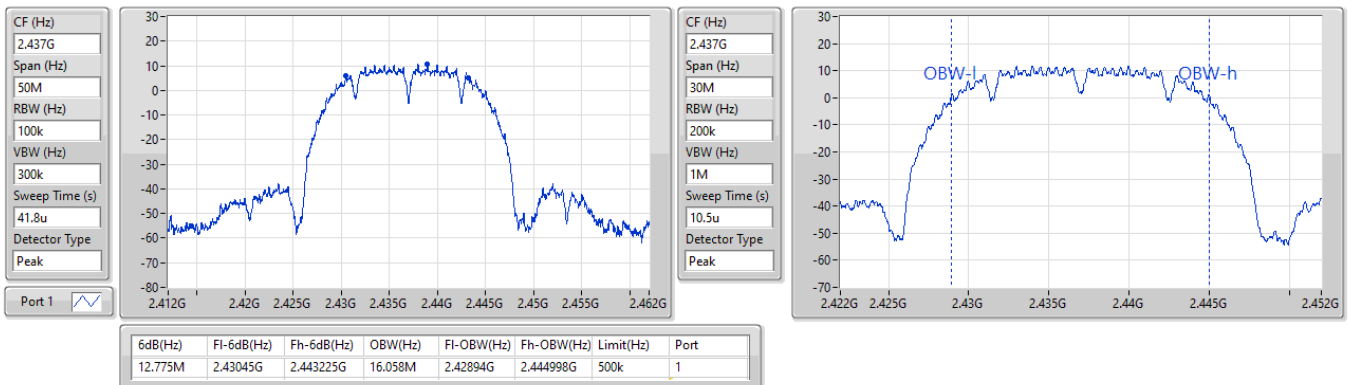
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

27/12/2024

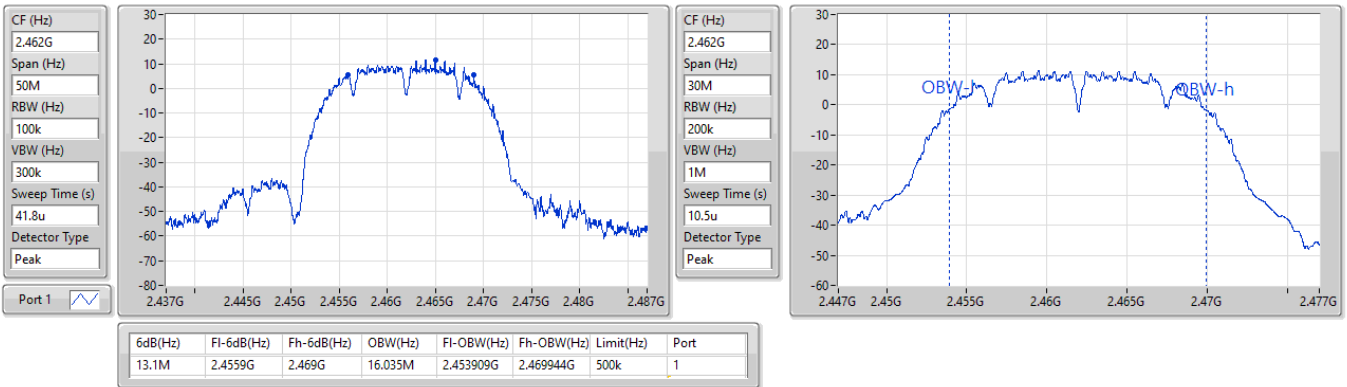

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

27/12/2024

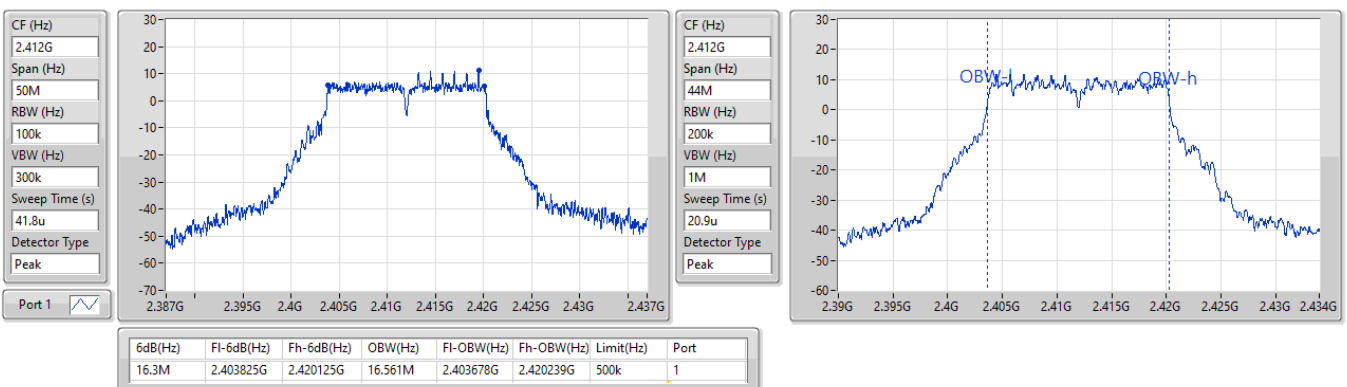


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

27/12/2024

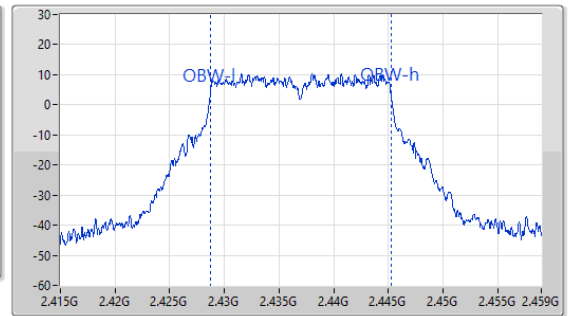
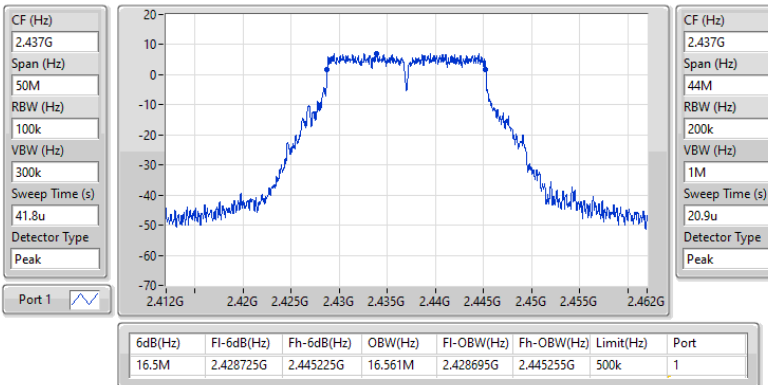

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

28/12/2024

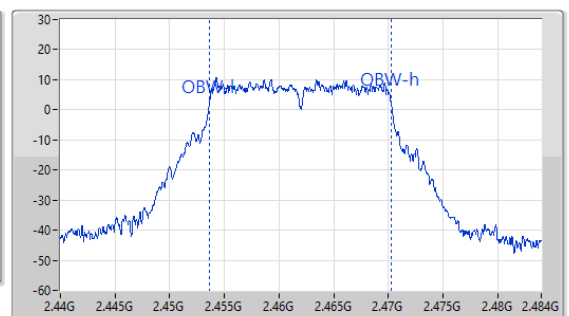
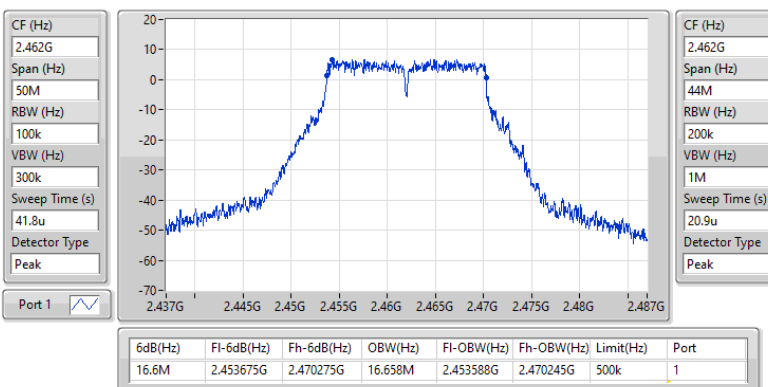


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

28/12/2024

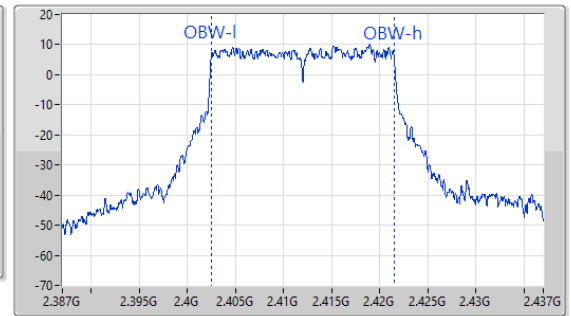
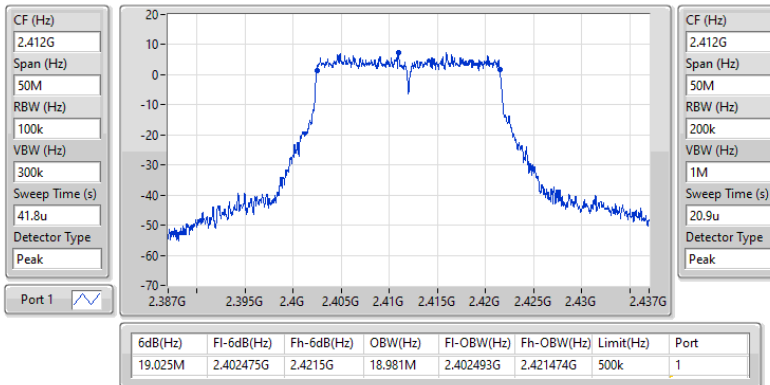

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

28/12/2024

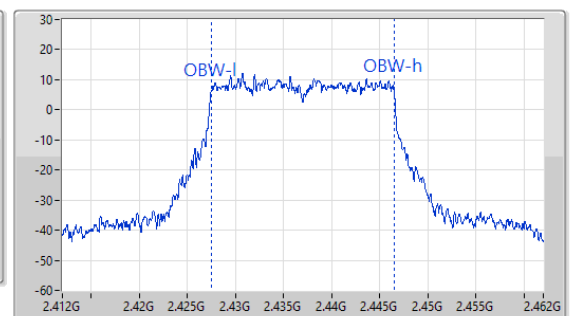
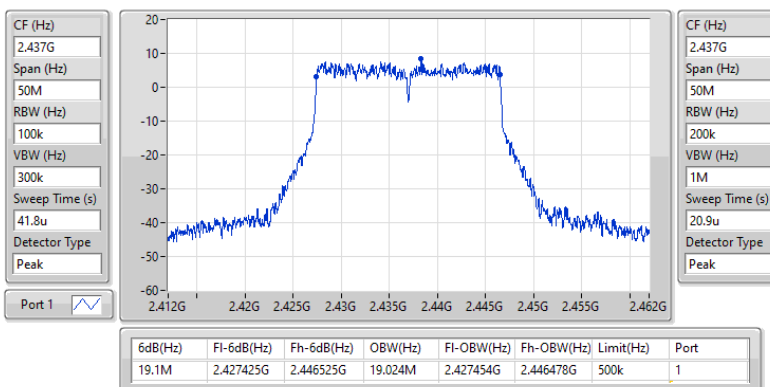


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
2412MHz

28/12/2024

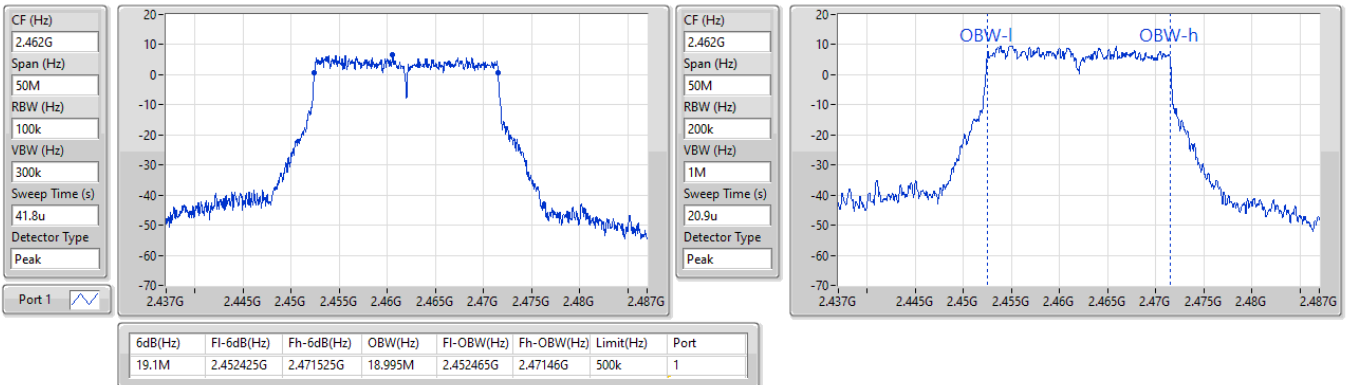

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
2437MHz

28/12/2024

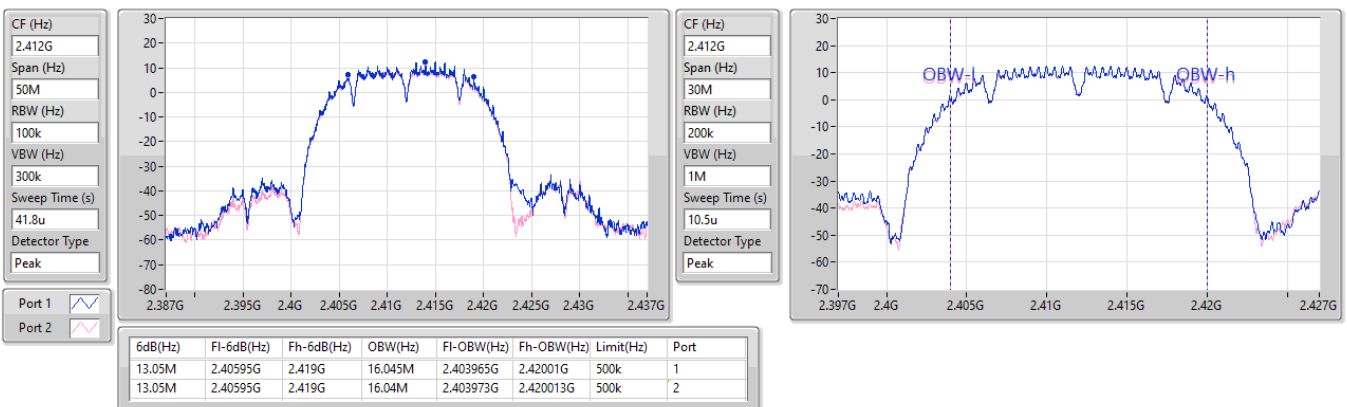


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
2462MHz

28/12/2024

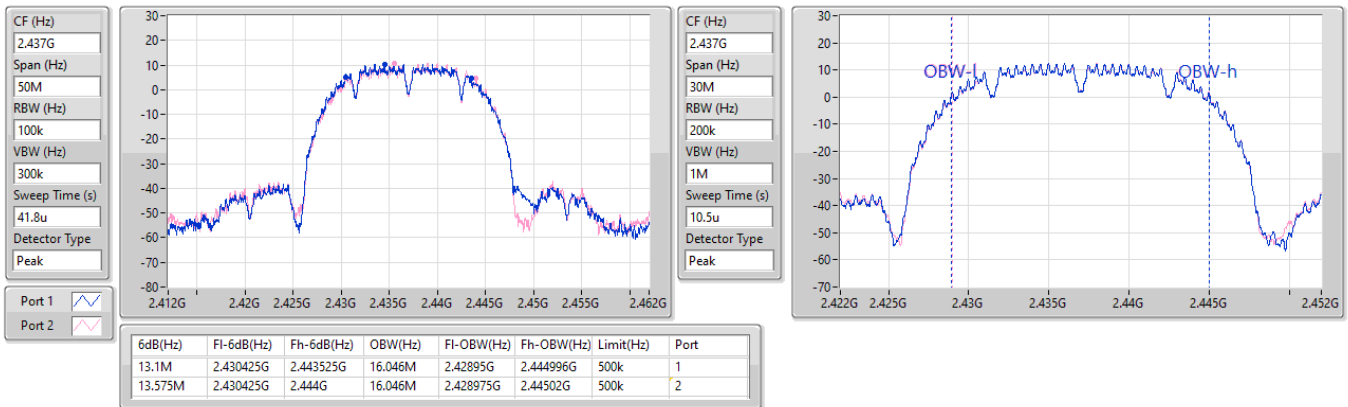

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

27/12/2024

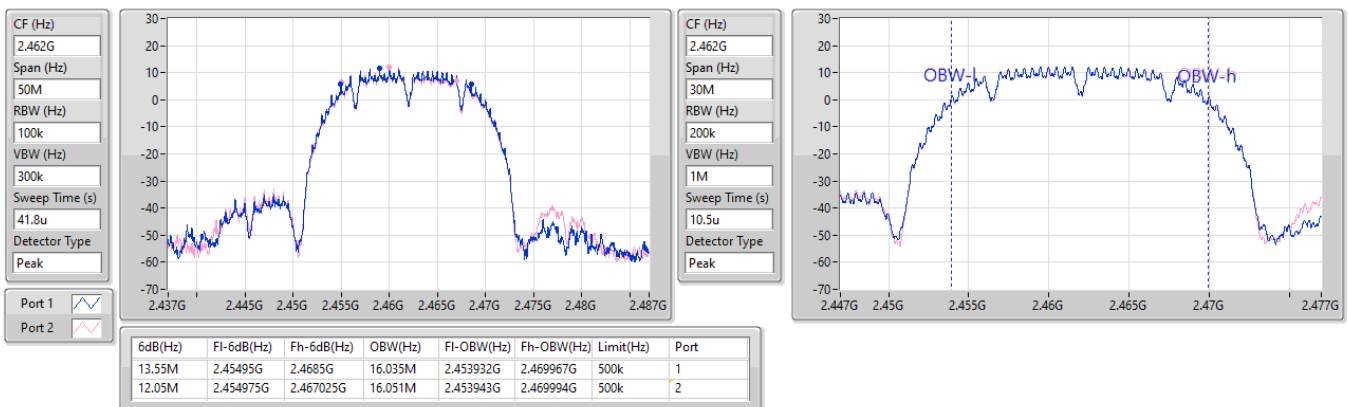


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

27/12/2024

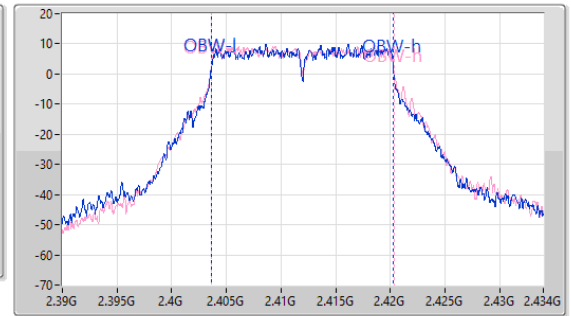
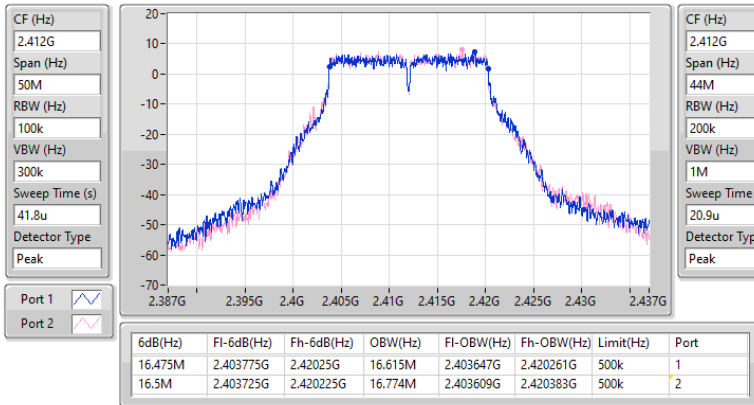

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

27/12/2024

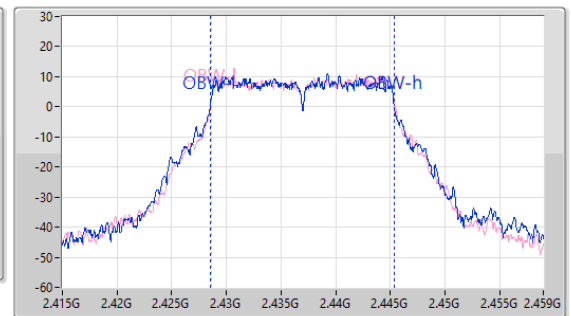
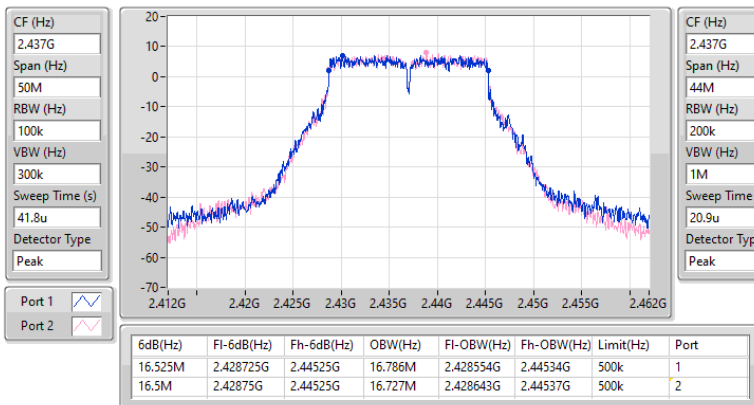


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

28/12/2024

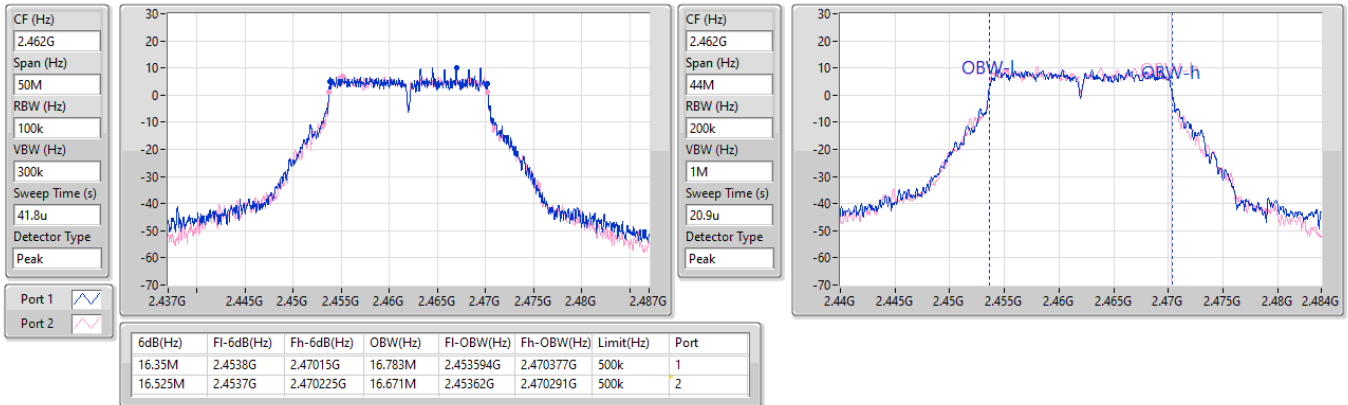

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

28/12/2024

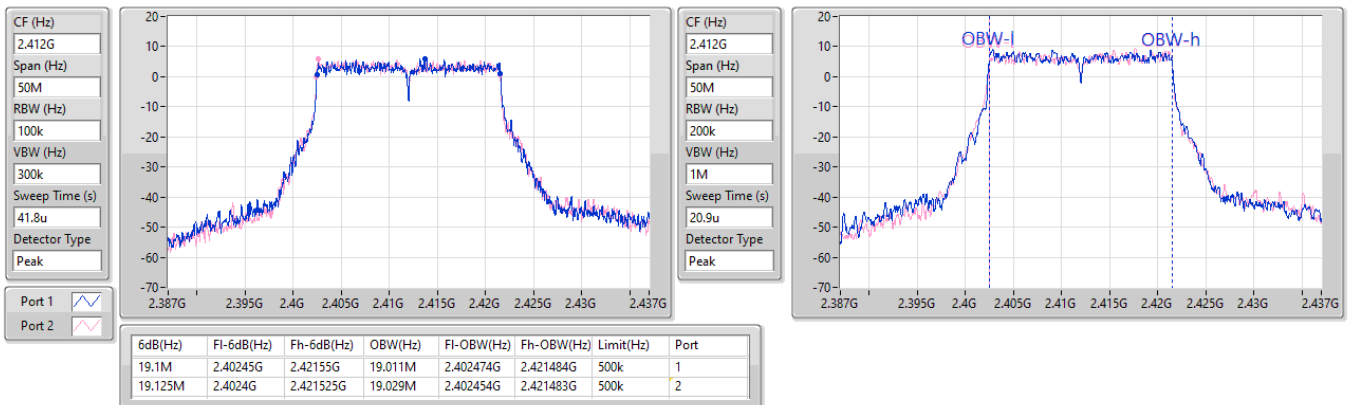


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

28/12/2024

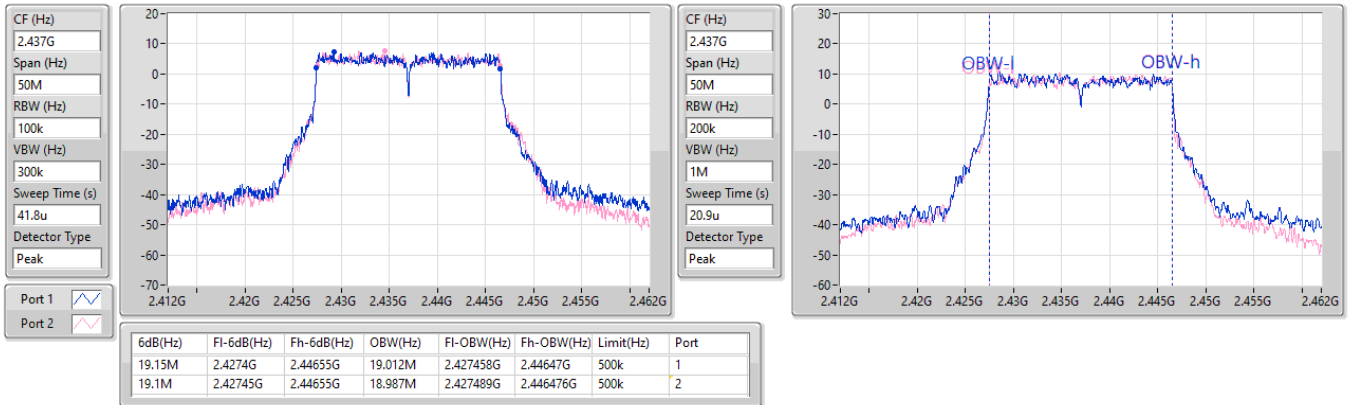

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
2412MHz

28/12/2024

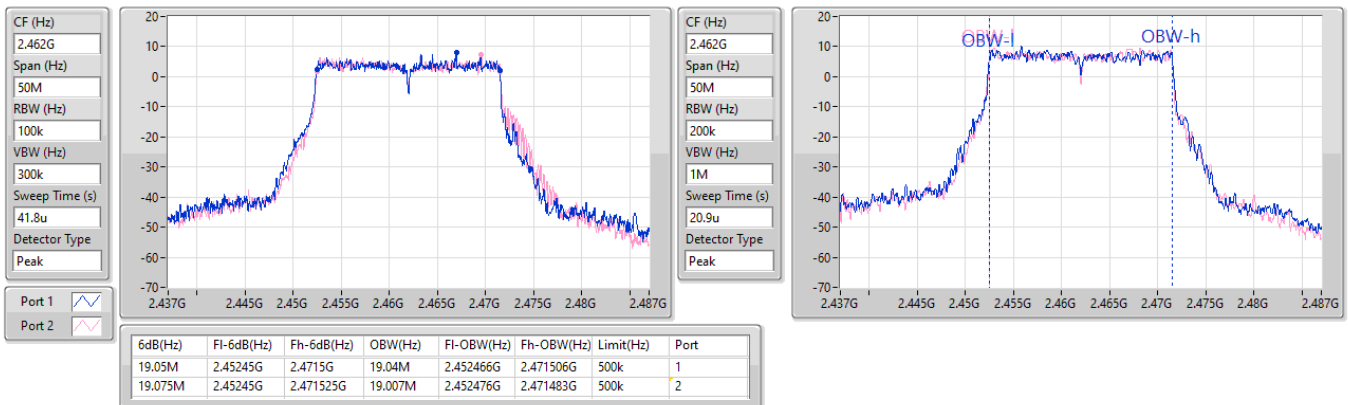


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
2437MHz

28/12/2024


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
2462MHz

28/12/2024

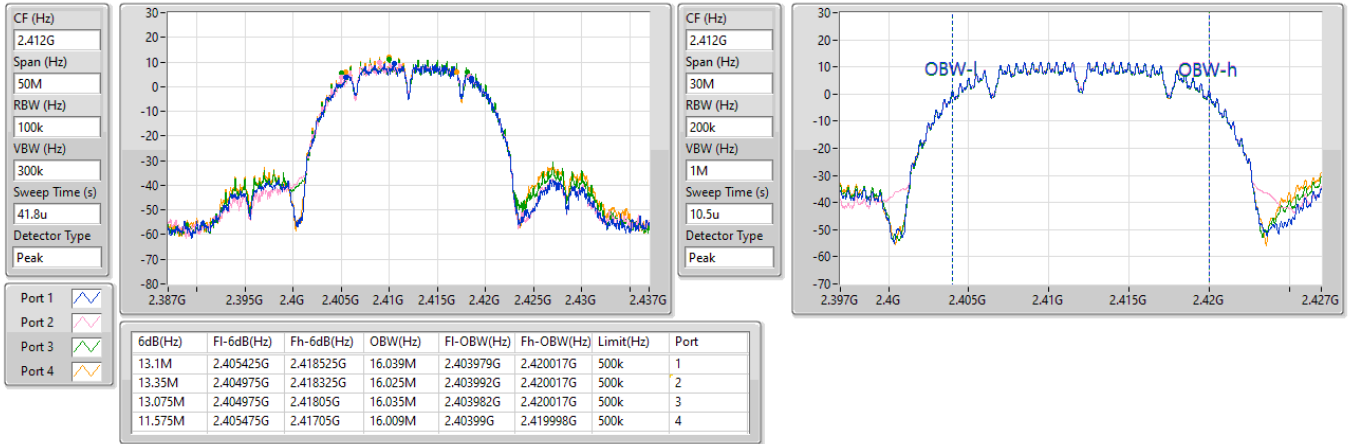


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

EBW

2412MHz

27/12/2024

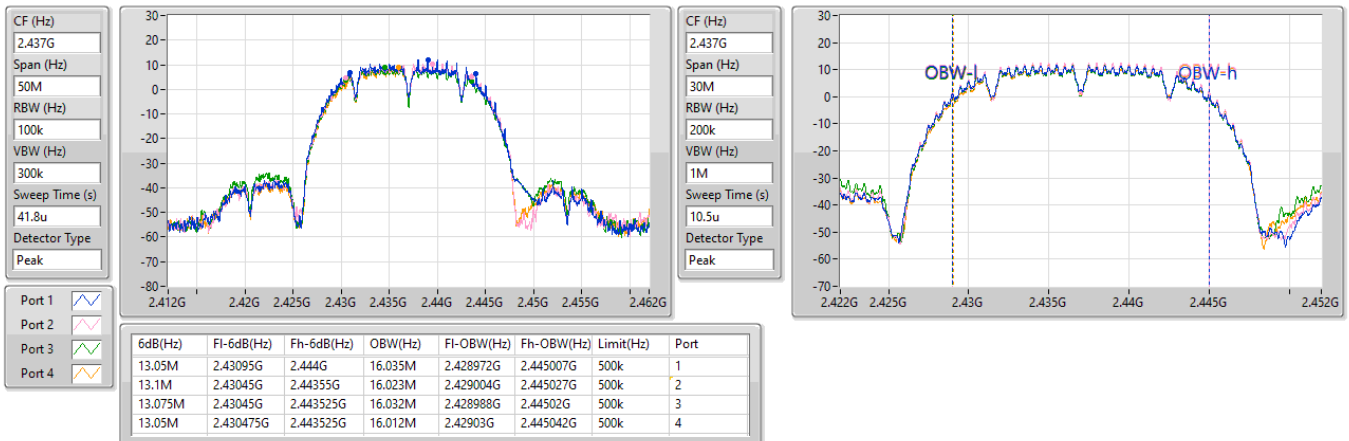


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

EBW

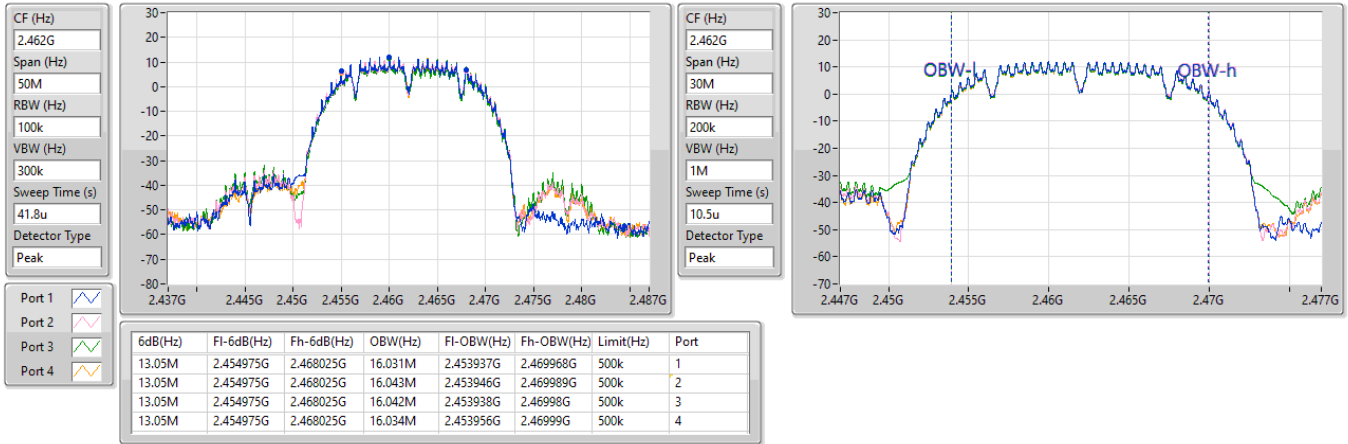
2437MHz

27/12/2024

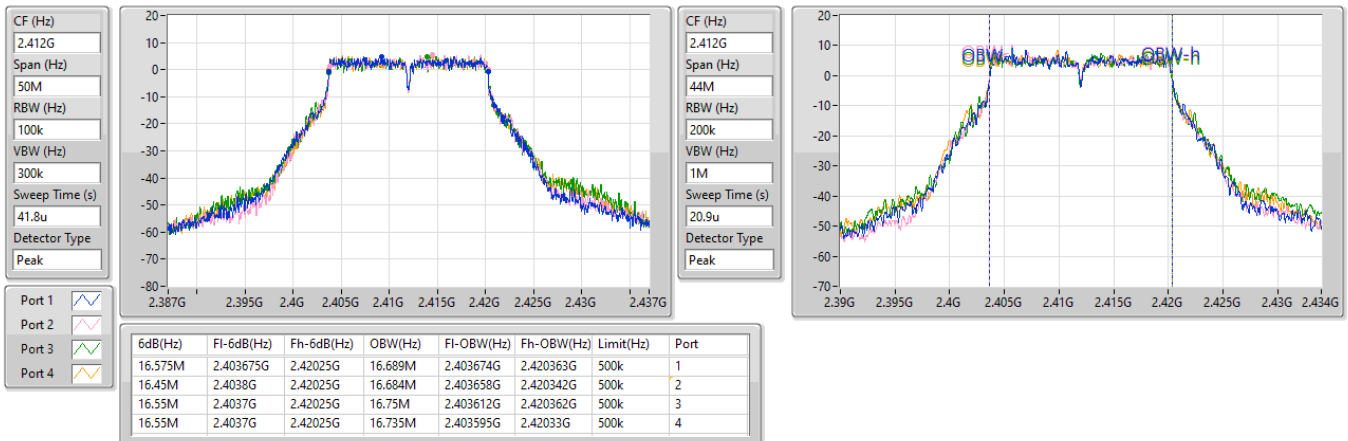


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX
EBW
2462MHz

27/12/2024


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX
EBW
2412MHz

28/12/2024

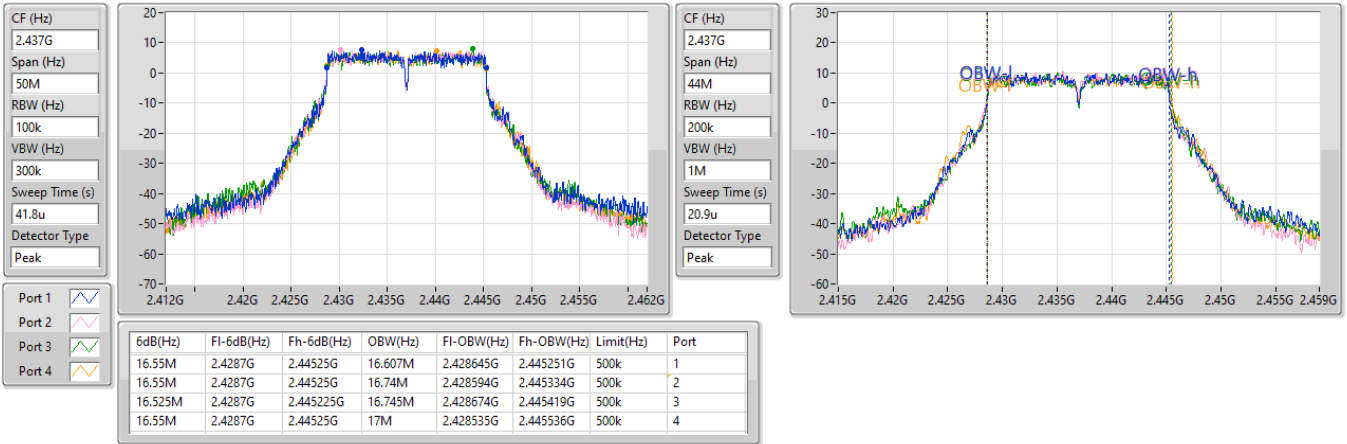


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

EBW

2437MHz

28/12/2024

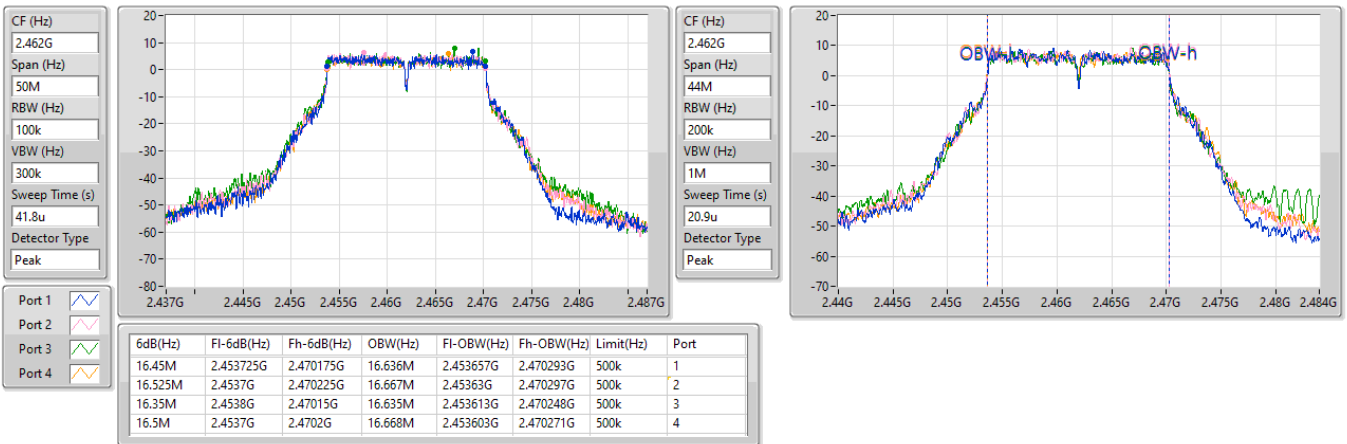


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

EBW

2462MHz

28/12/2024

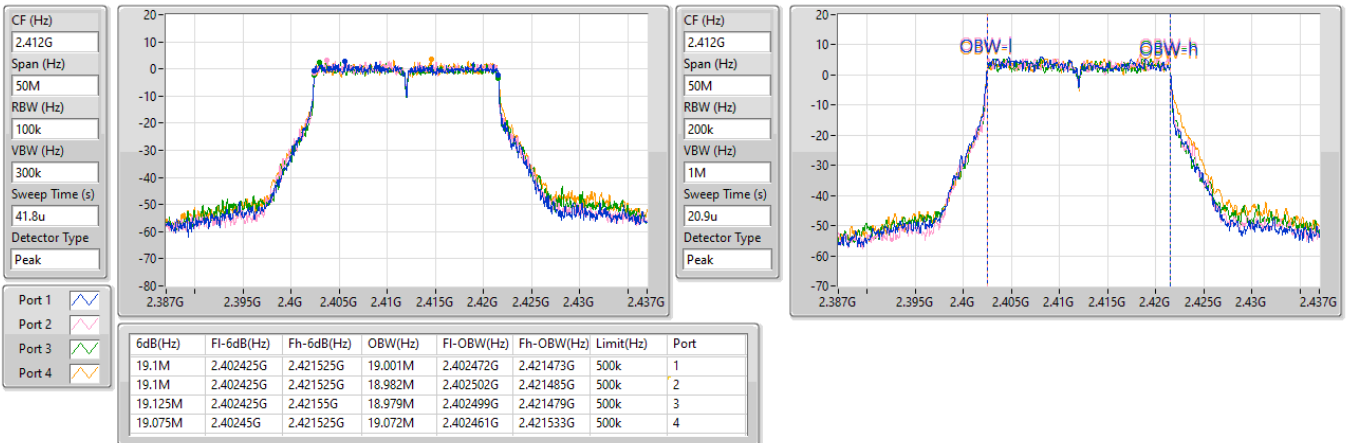


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

2412MHz

28/12/2024

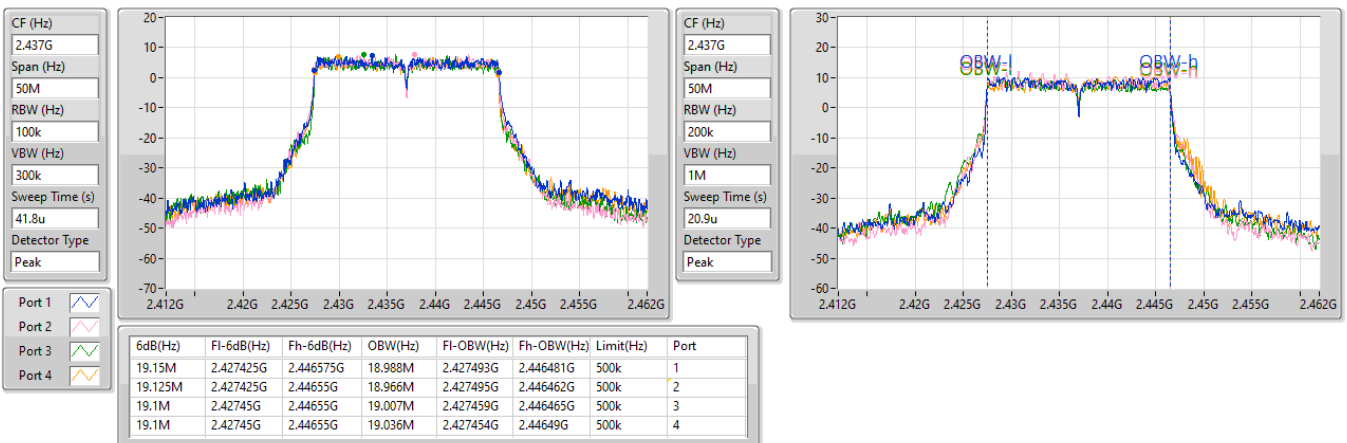


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

2437MHz

28/12/2024

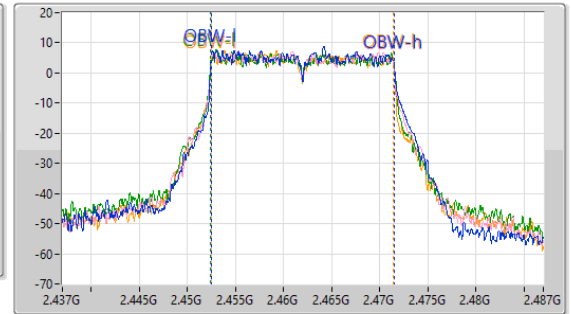
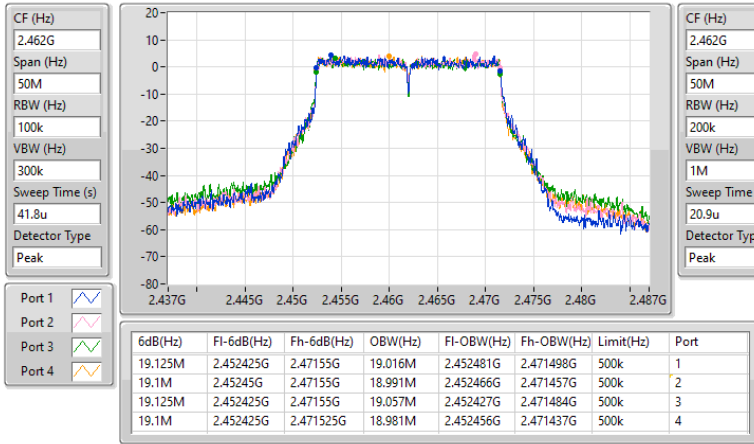


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

2462MHz

28/12/2024



**Summary**

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	13.3M	16.046M	16M0G1D	13.1M	16.036M
802.11b_Nss1,(1Mbps)_2TX	13.075M	16.045M	16M0G1D	12.75M	16.023M
802.11b_Nss1,(1Mbps)_4TX	13.525M	16.056M	16M1G1D	12.075M	16.006M
802.11g_Nss1,(6Mbps)_1TX	16.525M	16.743M	16M7D1D	16.45M	16.562M
802.11g_Nss1,(6Mbps)_2TX	16.575M	17.056M	17M1D1D	16.35M	16.564M
802.11g_Nss1,(6Mbps)_4TX	16.55M	16.838M	16M8D1D	16.325M	16.496M
802.11be EHT20_Nss1,(MCS0)_1TX	17.8M	17.857M	17M9D1D	17.75M	17.77M
802.11be EHT20_Nss1,(MCS0)_2TX	17.825M	17.965M	18M0D1D	17.725M	17.743M
802.11be EHT20_Nss1,(MCS0)_4TX	17.85M	17.881M	17M9D1D	17.6M	17.767M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

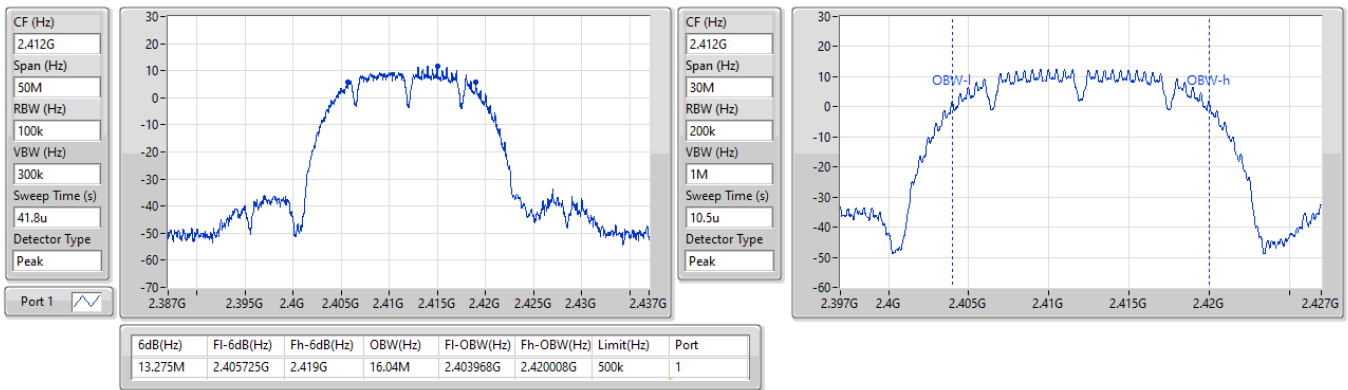
Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW	Port 3-N dB	Port 3-OBW	Port 4-N dB	Port 4-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	13.275M	16.04M						
2437MHz	Pass	500k	13.1M	16.046M						
2462MHz	Pass	500k	13.3M	16.036M						
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.525M	16.715M						
2437MHz	Pass	500k	16.45M	16.743M						
2462MHz	Pass	500k	16.525M	16.562M						
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.8M	17.82M						
2437MHz	Pass	500k	17.8M	17.77M						
2462MHz	Pass	500k	17.75M	17.857M						
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	13.075M	16.039M	12.75M	16.023M				
2437MHz	Pass	500k	12.775M	16.035M	12.875M	16.025M				
2462MHz	Pass	500k	12.925M	16.039M	12.875M	16.045M				
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.55M	16.64M	16.35M	16.617M				
2437MHz	Pass	500k	16.55M	16.564M	16.55M	17.056M				
2462MHz	Pass	500k	16.35M	16.586M	16.575M	16.672M				
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.75M	17.833M	17.825M	17.965M				
2437MHz	Pass	500k	17.775M	17.753M	17.75M	17.865M				
2462MHz	Pass	500k	17.725M	17.831M	17.775M	17.743M				
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	13.1M	16.056M	13.075M	16.044M	12.95M	16.05M	13.525M	16.025M
2437MHz	Pass	500k	12.95M	16.043M	12.075M	16.045M	13.075M	16.051M	13.075M	16.006M
2462MHz	Pass	500k	13.525M	16.039M	12.925M	16.045M	13.075M	16.046M	13.1M	16.048M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.55M	16.68M	16.4M	16.716M	16.475M	16.496M	16.325M	16.658M
2437MHz	Pass	500k	16.55M	16.67M	16.375M	16.706M	16.525M	16.612M	16.5M	16.635M
2462MHz	Pass	500k	16.525M	16.838M	16.475M	16.683M	16.55M	16.811M	16.5M	16.783M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.775M	17.874M	17.775M	17.833M	17.725M	17.846M	17.825M	17.82M
2437MHz	Pass	500k	17.85M	17.818M	17.8M	17.792M	17.625M	17.841M	17.7M	17.853M
2462MHz	Pass	500k	17.8M	17.767M	17.8M	17.881M	17.825M	17.821M	17.6M	17.82M

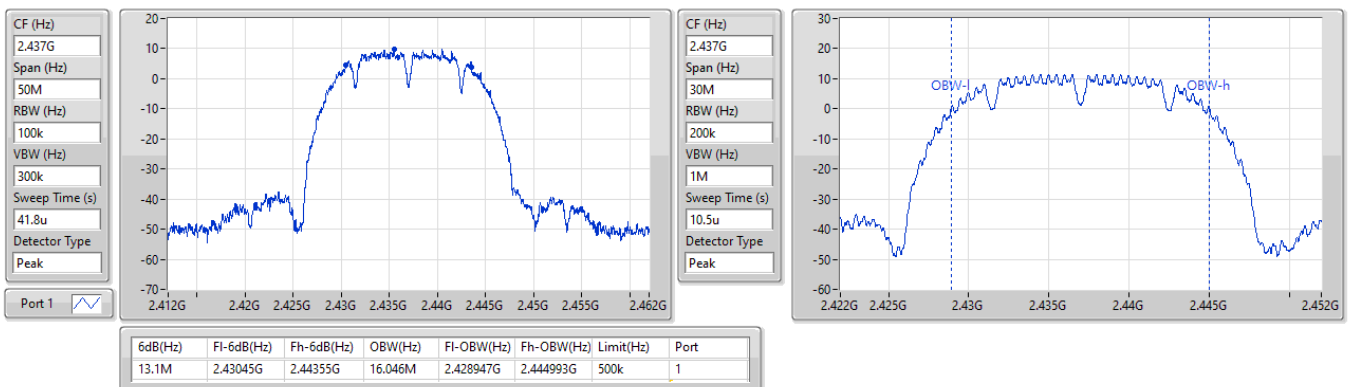
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

28/12/2024

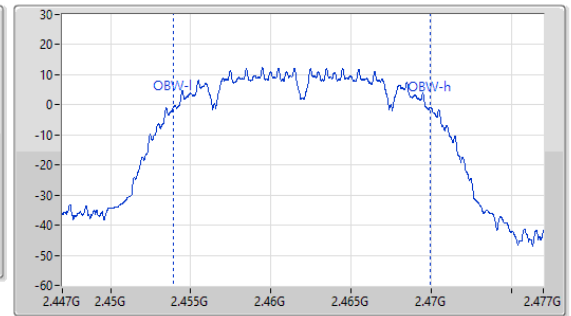
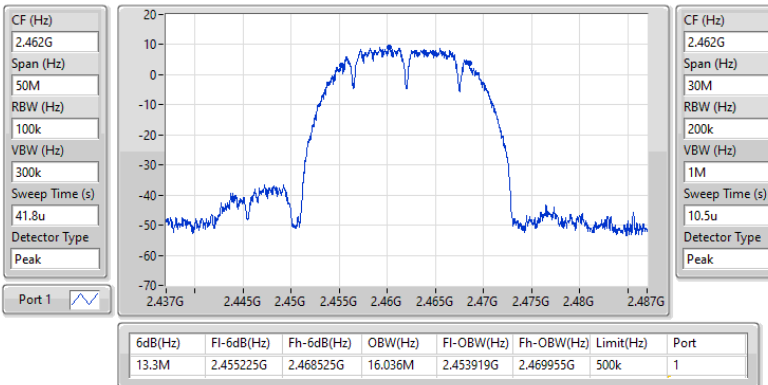

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

28/12/2024

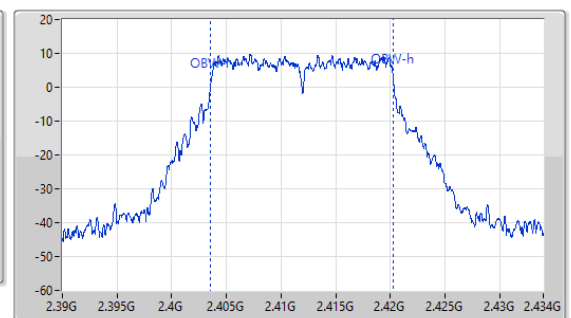
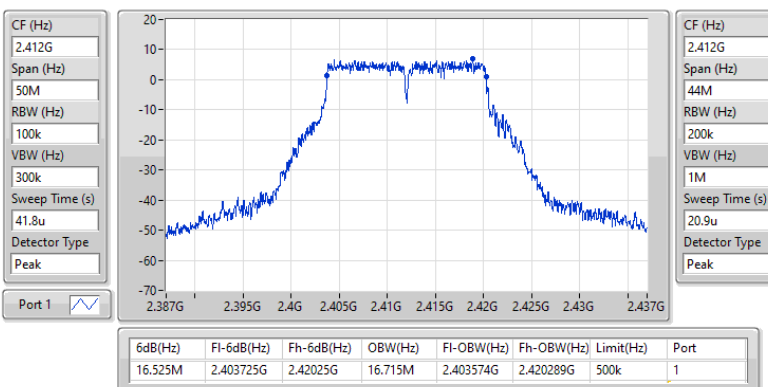


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

28/12/2024

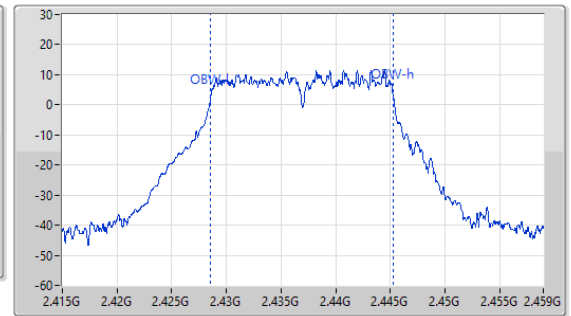
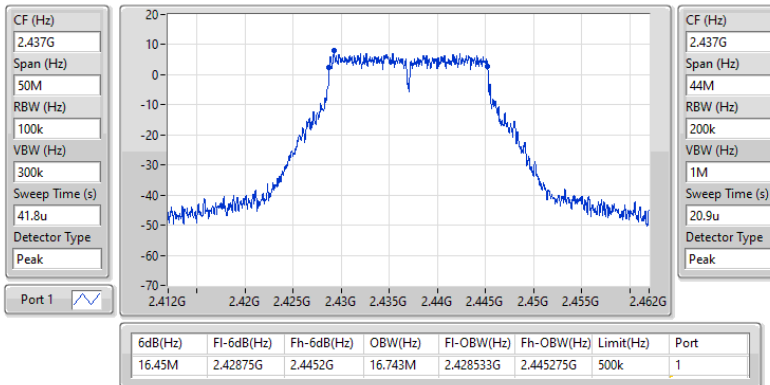

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

28/12/2024

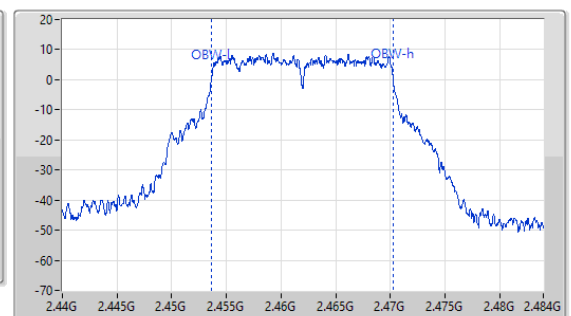
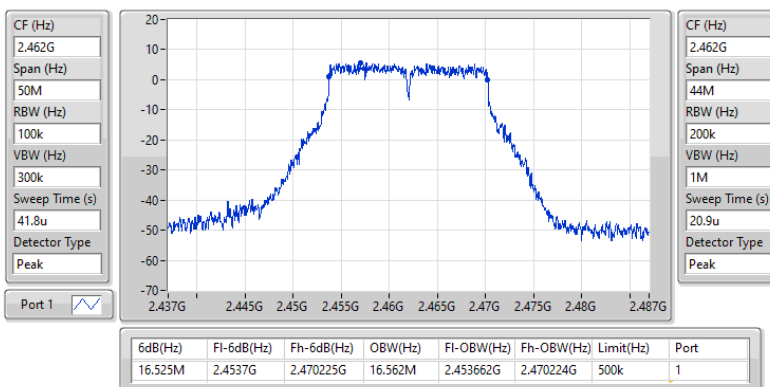


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

28/12/2024

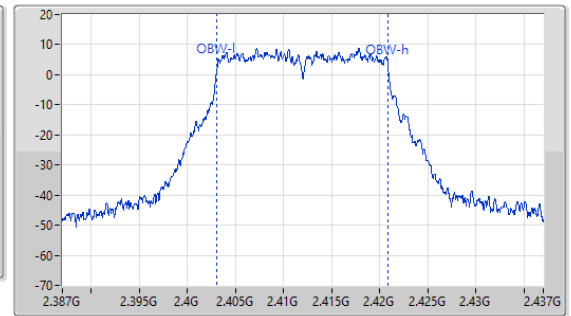
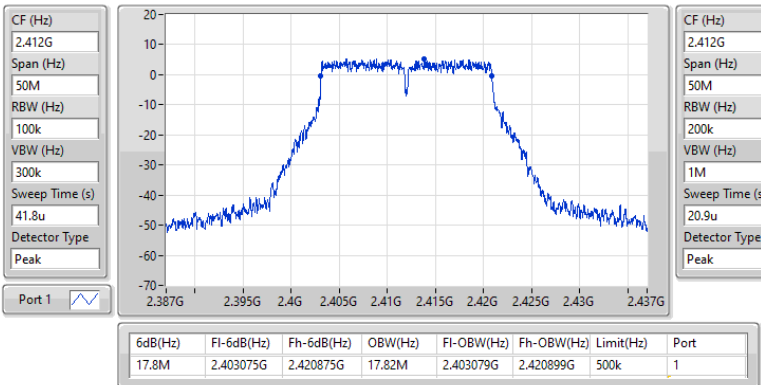

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

28/12/2024

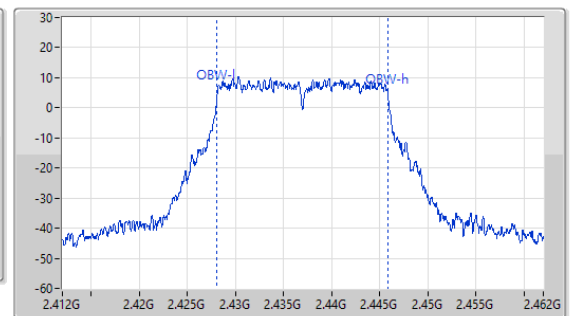
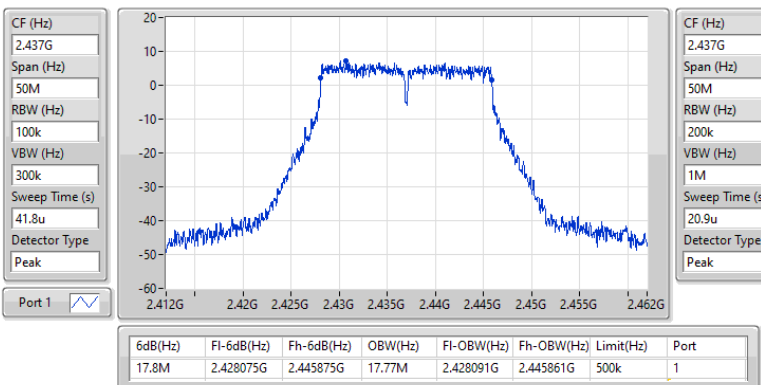


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
2412MHz

28/12/2024

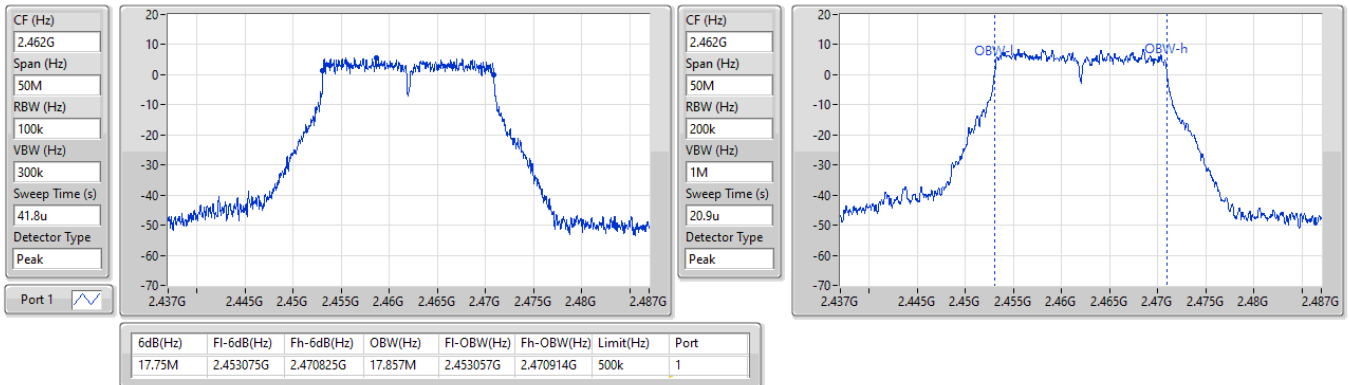

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
2437MHz

28/12/2024

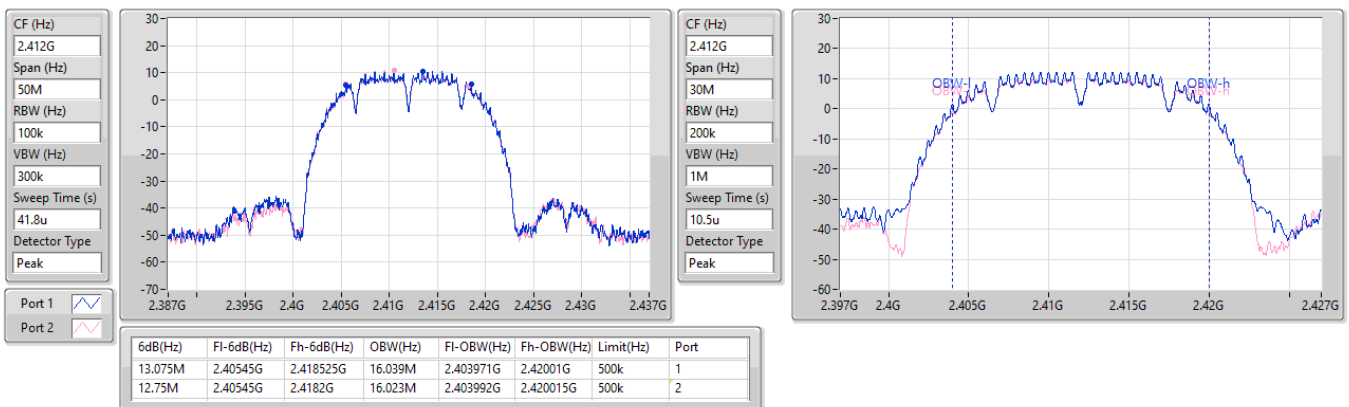


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX
EBW
2462MHz

28/12/2024

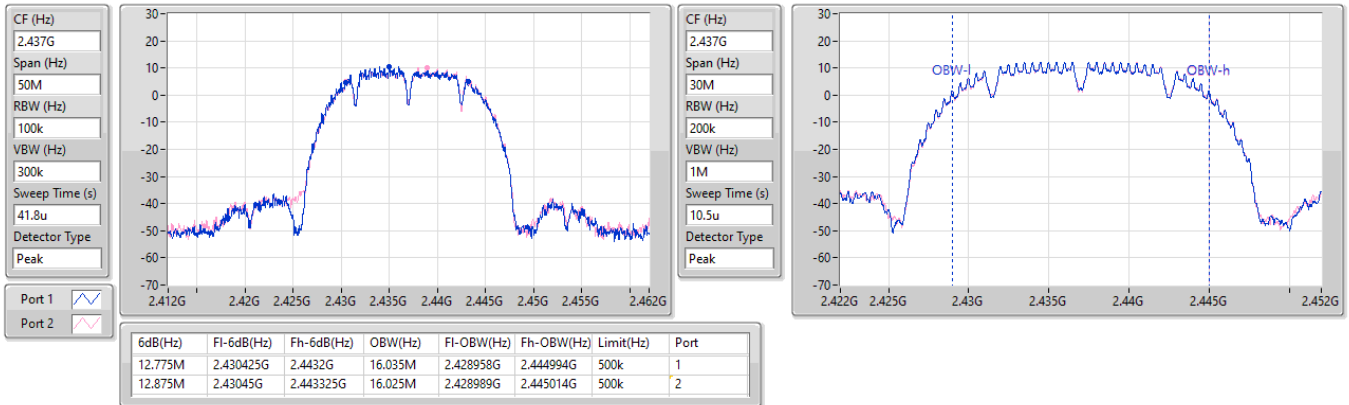

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

28/12/2024

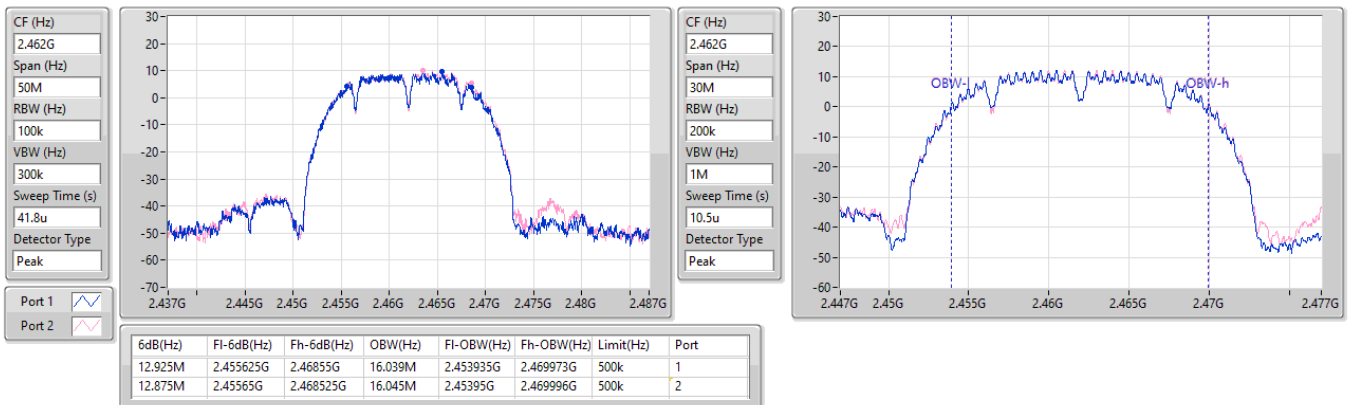


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EBW
2437MHz

28/12/2024

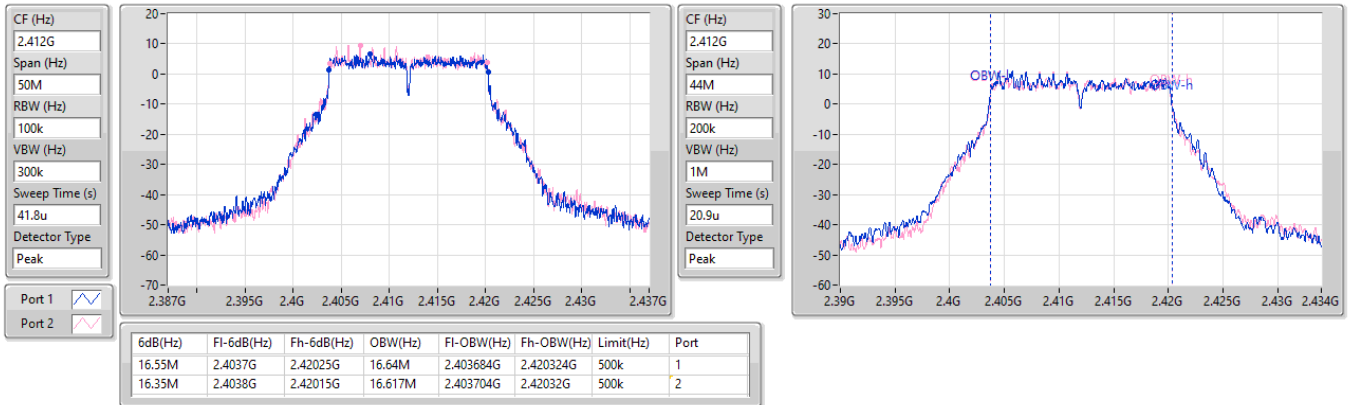

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

28/12/2024

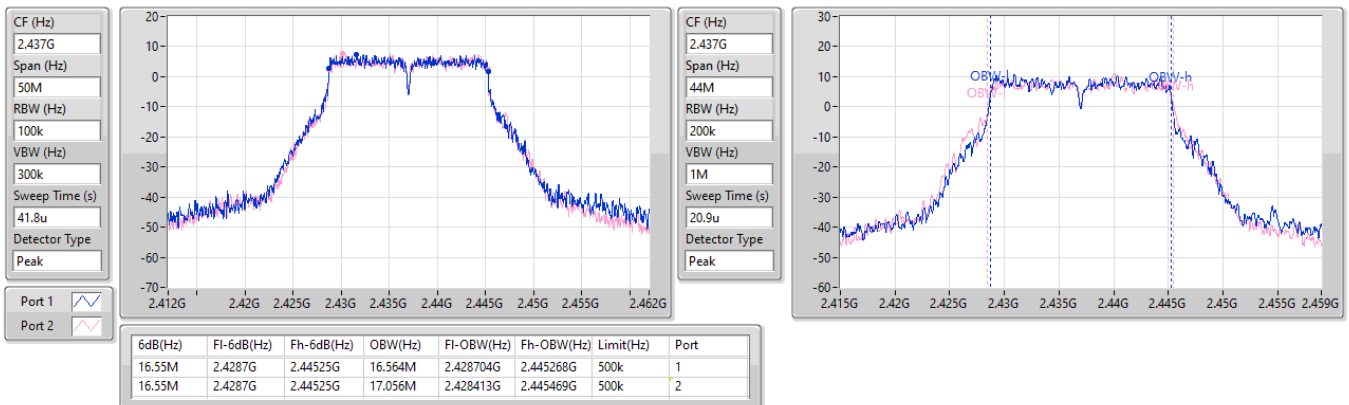


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

28/12/2024


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

28/12/2024

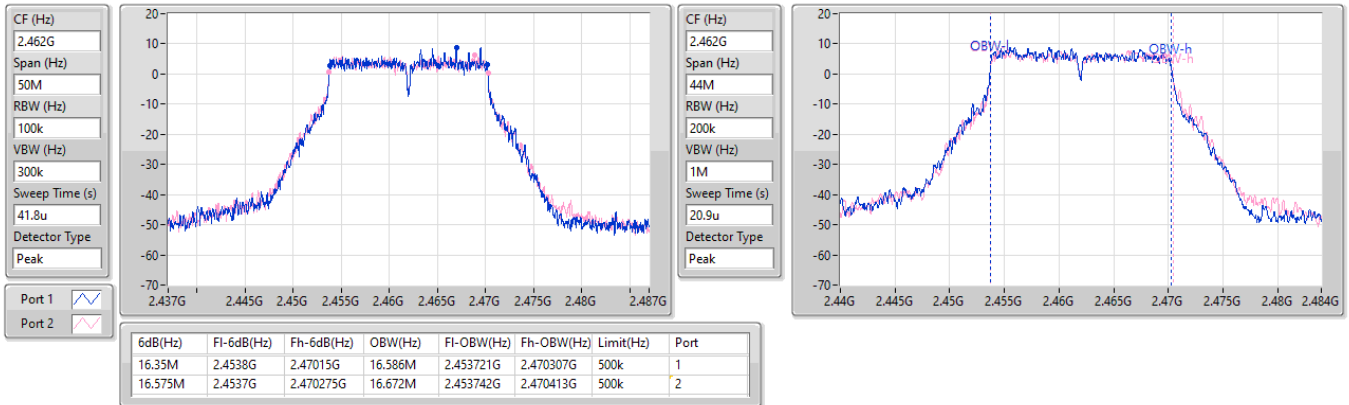


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2462MHz

28/12/2024

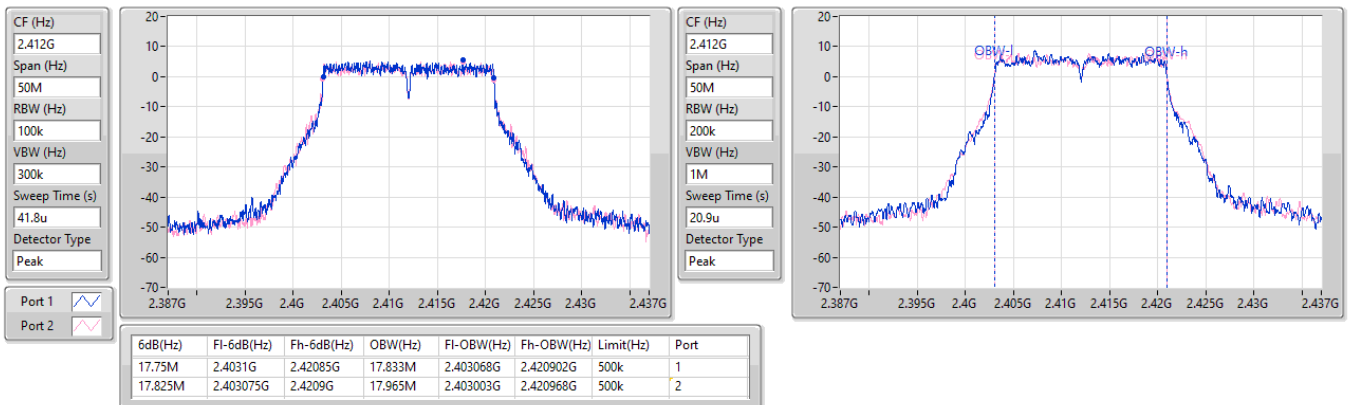


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

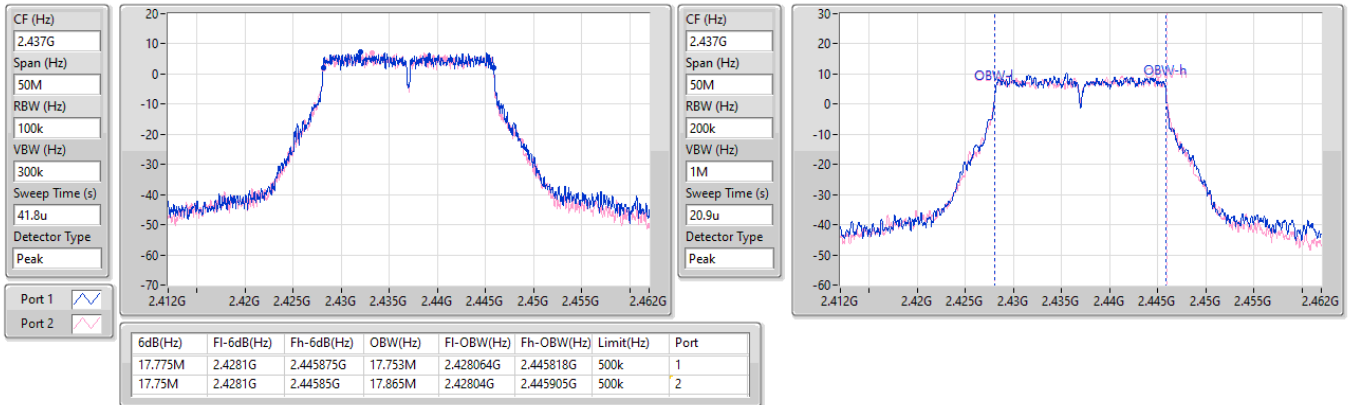
2412MHz

28/12/2024

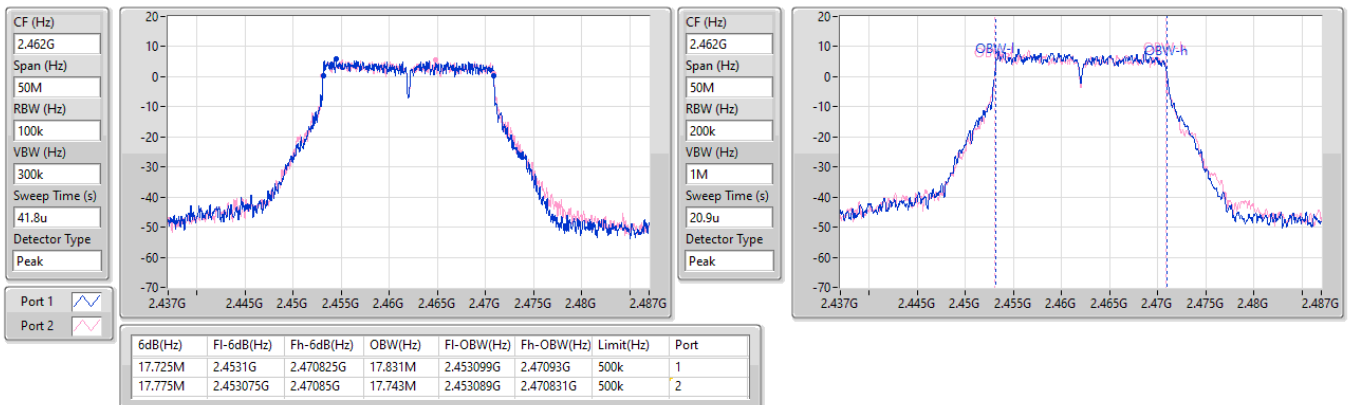


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
2437MHz

28/12/2024

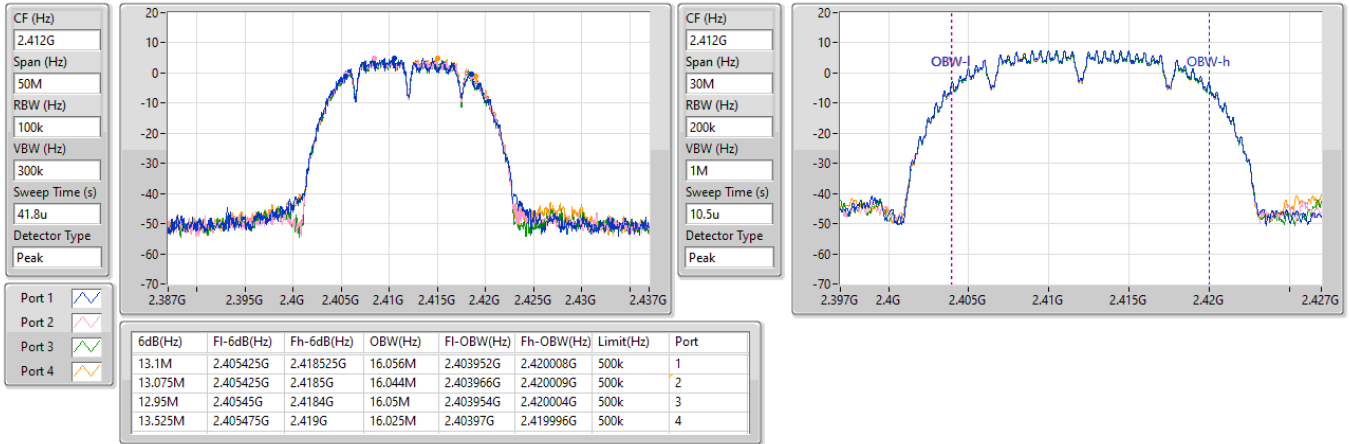

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
2462MHz

28/12/2024

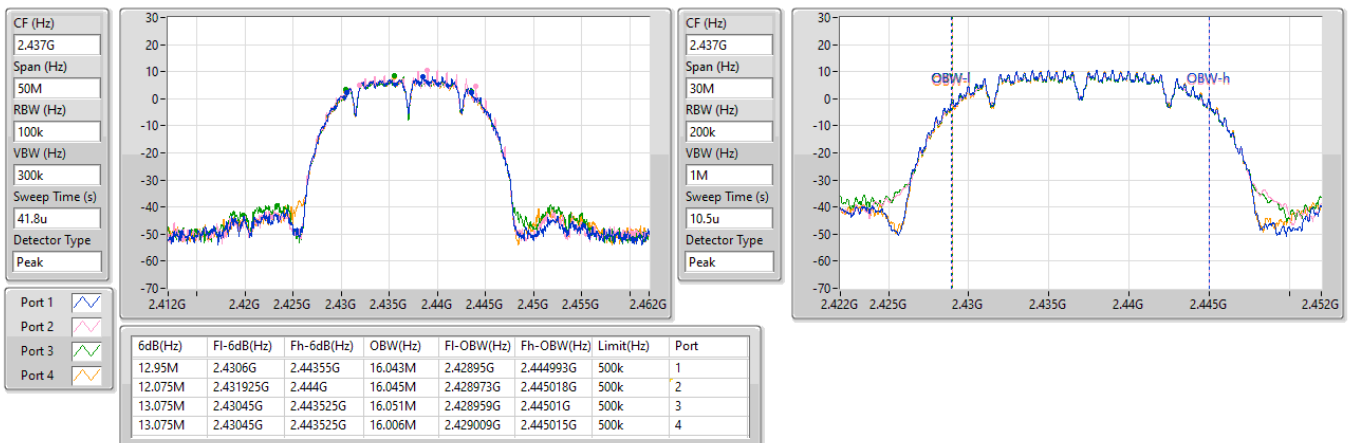


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX
EBW
2412MHz

28/12/2024

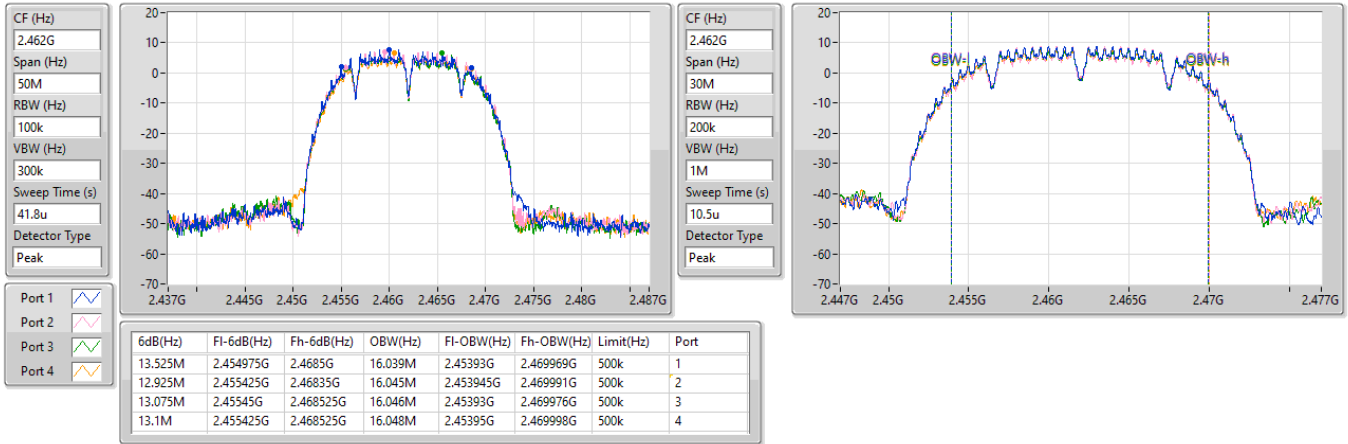

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX
EBW
2437MHz

28/12/2024

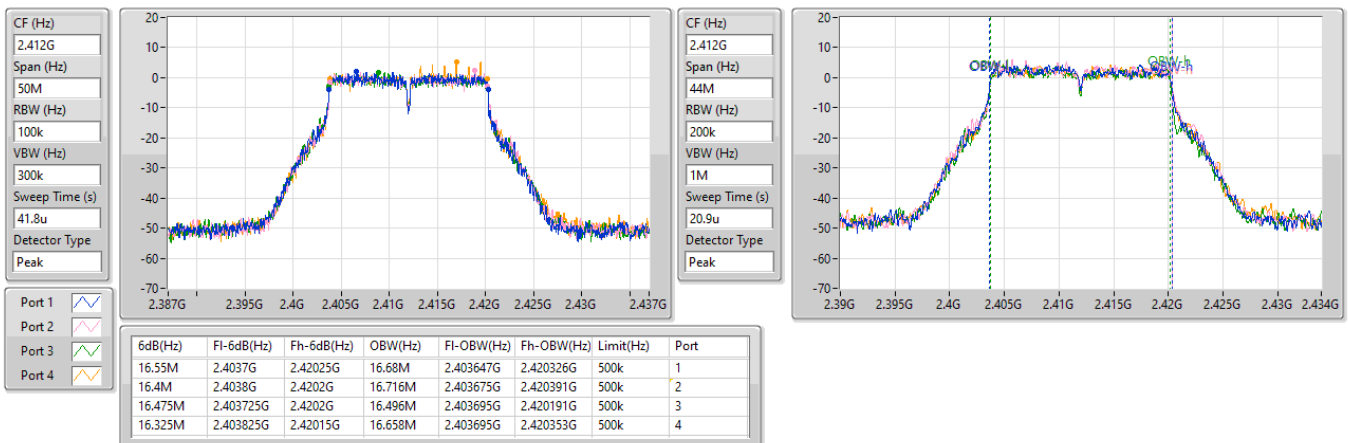


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX
EBW
2462MHz

28/12/2024

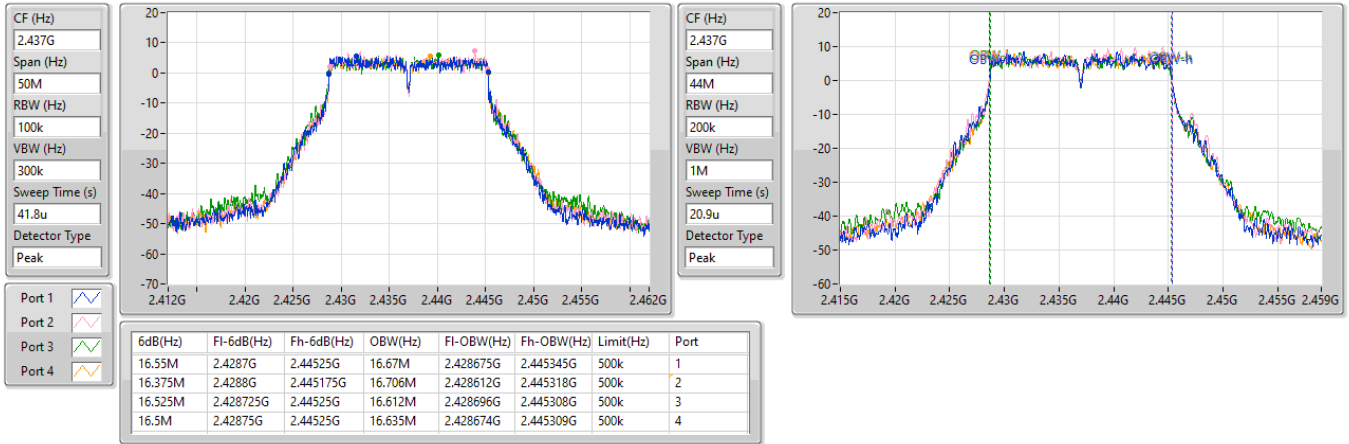

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX
EBW
2412MHz

28/12/2024

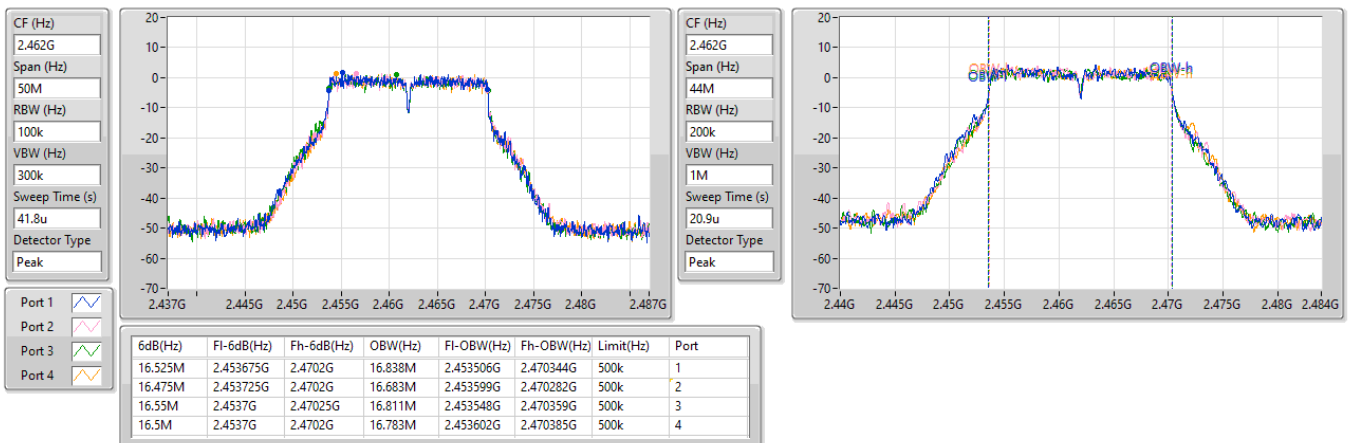


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX
EBW
2437MHz

28/12/2024

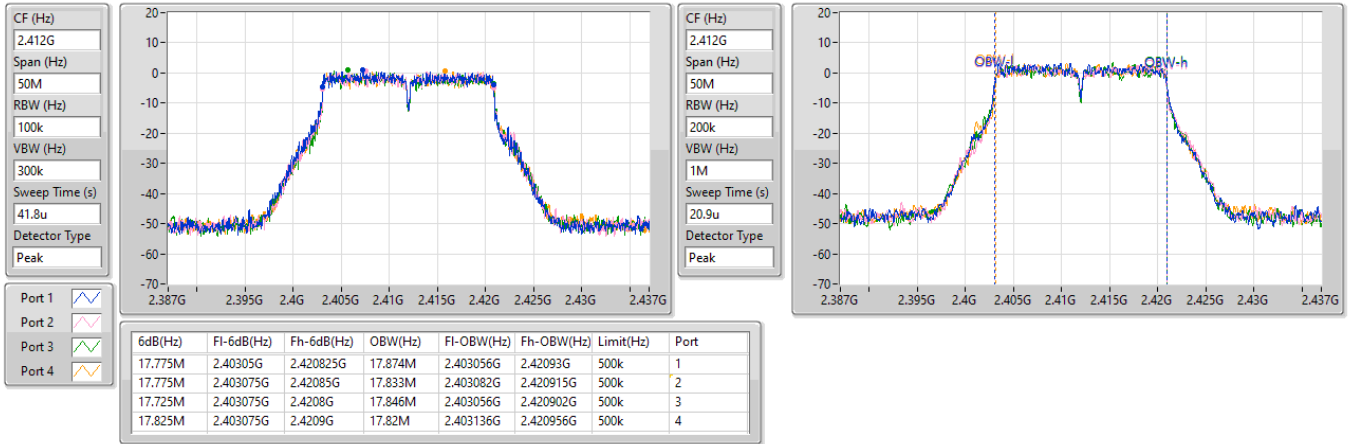

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX
EBW
2462MHz

28/12/2024

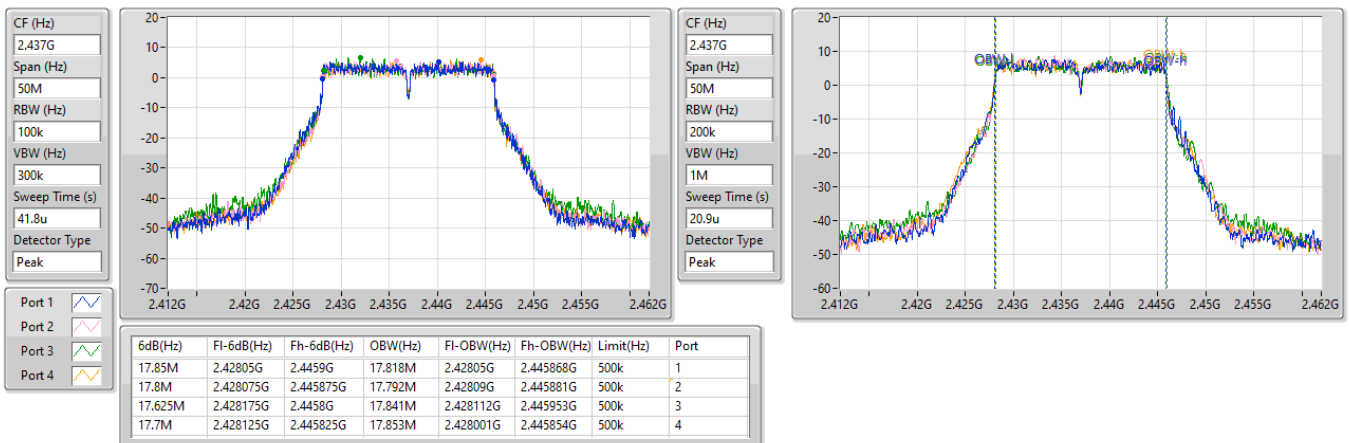


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX
EBW
2412MHz

28/12/2024


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX
EBW
2437MHz

28/12/2024

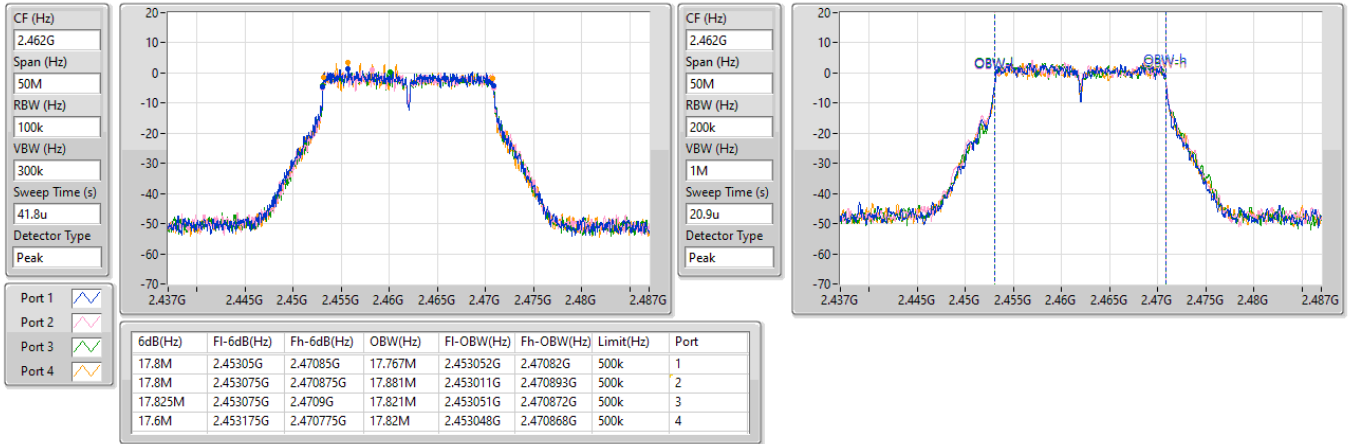


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

2462MHz

28/12/2024





Average Power_Test mode: Mode 1

Appendix C.1

Summary

Mode	Total Power	Total Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	23.60	0.22909
802.11g_Nss1,(6Mbps)_1TX	23.59	0.22856
802.11ax HEW20_Nss1,(MCS0)_1TX	23.24	0.21086



Average Power_Test mode: Mode 1

Appendix C.1

Result

Mode	Result	DG	Port 1	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	22.52	22.52	30.00
2437MHz	Pass	3.70	23.60	23.60	30.00
2462MHz	Pass	3.70	22.52	22.52	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	18.66	18.66	30.00
2417MHz	Pass	3.70	20.01	20.01	30.00
2437MHz	Pass	3.70	23.59	23.59	30.00
2457MHz	Pass	3.70	19.92	19.92	30.00
2462MHz	Pass	3.70	18.57	18.57	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	18.34	18.34	30.00
2417MHz	Pass	3.70	19.75	19.75	30.00
2437MHz	Pass	3.70	23.24	23.24	30.00
2457MHz	Pass	3.70	19.24	19.24	30.00
2462MHz	Pass	3.70	18.45	18.45	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	22.49	0.17742
802.11b_Nss1,(1Mbps)_2TX	25.48	0.35318
802.11b_Nss1,(1Mbps)_4TX	28.28	0.67298
802.11g_Nss1,(6Mbps)_1TX	21.76	0.14997
802.11g_Nss1,(6Mbps)_2TX	24.90	0.30903
802.11g_Nss1,(6Mbps)_4TX	27.81	0.60395
802.11be EHT20_Nss1,(MCS0)_1TX	22.05	0.16032
802.11be EHT20_Nss1,(MCS0)_2TX	25.08	0.32211
802.11be EHT20_Nss1,(MCS0)_4TX	27.91	0.61802
802.11be EHT20-BF_Nss1,(MCS0)_2TX	25.08	0.32211
802.11be EHT20-BF_Nss1,(MCS0)_4TX	27.91	0.61802

Result

Mode	Result	DG	Port 1	Port 2	Port 3	Port 4	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11b_Nss1.(1Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	22.47				22.47	30.00
2437MHz	Pass	5.00	22.49				22.49	30.00
2462MHz	Pass	5.00	22.42				22.42	30.00
802.11g_Nss1.(6Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	21.73				21.73	30.00
2437MHz	Pass	5.00	21.76				21.76	30.00
2462MHz	Pass	5.00	21.41				21.41	30.00
802.11be EHT20_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	21.16				21.16	30.00
2437MHz	Pass	5.00	22.05				22.05	30.00
2462MHz	Pass	5.00	21.21				21.21	30.00
802.11b_Nss1.(1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	22.45	22.42			25.45	30.00
2437MHz	Pass	5.00	22.48	22.46			25.48	30.00
2462MHz	Pass	5.00	22.46	22.41			25.45	30.00
802.11g_Nss1.(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	21.33	21.51			24.43	30.00
2437MHz	Pass	5.00	21.83	21.95			24.90	30.00
2462MHz	Pass	5.00	21.43	21.62			24.54	30.00
802.11be EHT20_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	20.50	20.64			23.58	30.00
2437MHz	Pass	5.00	22.00	22.14			25.08	30.00
2462MHz	Pass	5.00	21.18	21.16			24.18	30.00
802.11b_Nss1.(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.30	21.94	22.07	21.54	22.04	27.92	30.00
2437MHz	Pass	5.30	22.41	22.45	22.00	22.17	28.28	30.00
2462MHz	Pass	5.30	22.11	22.08	21.66	21.77	27.93	30.00
802.11g_Nss1.(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.30	19.43	19.37	19.12	19.36	25.34	30.00
2437MHz	Pass	5.30	21.85	21.99	21.59	21.71	27.81	30.00
2462MHz	Pass	5.30	20.34	20.56	20.21	20.25	26.36	30.00
802.11be EHT20_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.30	17.50	17.67	17.17	17.50	23.48	30.00
2417MHz	Pass	5.30	20.49	20.39	20.17	20.25	26.35	30.00
2437MHz	Pass	5.30	21.99	22.15	21.63	21.78	27.91	30.00
2462MHz	Pass	5.30	19.10	19.05	18.88	18.79	24.98	30.00
802.11be EHT20-BF_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	20.50	20.64			23.58	30.00
2437MHz	Pass	5.00	22.00	22.14			25.08	30.00
2462MHz	Pass	5.00	21.18	21.16			24.18	30.00
802.11be EHT20-BF_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.95	17.50	17.67	17.17	17.50	23.48	28.05
2417MHz	Pass	7.95	20.49	20.39	20.17	20.25	26.35	28.05
2437MHz	Pass	7.95	21.99	22.15	21.63	21.78	27.91	28.05
2462MHz	Pass	7.95	19.10	19.05	18.88	18.79	24.98	28.05

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	22.49	0.17742
802.11b_Nss1,(1Mbps)_2TX	25.48	0.35318
802.11b_Nss1,(1Mbps)_4TX	26.81	0.47973
802.11g_Nss1,(6Mbps)_1TX	21.76	0.14997
802.11g_Nss1,(6Mbps)_2TX	24.90	0.30903
802.11g_Nss1,(6Mbps)_4TX	26.29	0.42560
802.11be EHT20_Nss1,(MCS0)_1TX	22.05	0.16032
802.11be EHT20_Nss1,(MCS0)_2TX	25.08	0.32211
802.11be EHT20_Nss1,(MCS0)_4TX	26.32	0.42855
802.11be EHT20-BF_Nss1,(MCS0)_2TX	25.08	0.32211
802.11be EHT20-BF_Nss1,(MCS0)_4TX	24.78	0.30061

**Result**

Mode	Result	DG	Port 1	Port 2	Port 3	Port 4	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	22.47				22.47	28.23
2437MHz	Pass	7.77	22.49				22.49	28.23
2462MHz	Pass	7.77	22.42				22.42	28.23
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	21.36				21.36	28.23
2437MHz	Pass	7.77	21.76				21.76	28.23
2462MHz	Pass	7.77	20.58				20.58	28.23
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	20.51				20.51	28.23
2437MHz	Pass	7.77	22.05				22.05	28.23
2462MHz	Pass	7.77	20.59				20.59	28.23
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	22.45	22.42			25.45	28.23
2437MHz	Pass	7.77	22.48	22.46			25.48	28.23
2462MHz	Pass	7.77	22.46	22.41			25.45	28.23
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	21.12	21.03			24.09	28.23
2437MHz	Pass	7.77	21.83	21.95			24.90	28.23
2462MHz	Pass	7.77	20.53	20.52			23.54	28.23
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	20.10	19.95			23.04	28.23
2437MHz	Pass	7.77	22.00	22.14			25.08	28.23
2462MHz	Pass	7.77	20.60	20.56			23.59	28.23
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	18.02	18.00	17.61	17.92	23.91	28.23
2437MHz	Pass	7.77	20.88	20.89	20.66	20.71	26.81	28.23
2462MHz	Pass	7.77	19.19	19.13	18.80	18.85	25.02	28.23
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	16.47	16.42	16.10	16.35	22.36	28.23
2417MHz	Pass	7.77	19.54	19.36	19.29	19.21	25.37	28.23
2437MHz	Pass	7.77	20.47	20.40	20.10	20.11	26.29	28.23
2457MHz	Pass	7.77	17.45	17.65	17.26	17.11	23.39	28.23
2462MHz	Pass	7.77	16.06	15.92	15.69	15.68	21.86	28.23
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	15.66	15.51	15.24	15.31	21.45	28.23
2417MHz	Pass	7.77	19.60	19.27	19.20	19.28	25.36	28.23
2437MHz	Pass	7.77	20.48	20.42	20.13	20.17	26.32	28.23
2457MHz	Pass	7.77	17.48	17.68	17.28	17.27	23.45	28.23
2462MHz	Pass	7.77	15.60	15.50	15.27	15.15	21.40	28.23
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	8.18	20.10	19.95			23.04	27.82
2437MHz	Pass	8.18	22.00	22.14			25.08	27.82
2462MHz	Pass	8.18	20.60	20.56			23.59	27.82
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	11.19	15.66	15.51	15.24	15.31	21.45	24.81
2417MHz	Pass	11.19	18.91	18.71	18.66	18.70	24.77	24.81
2437MHz	Pass	11.19	18.98	18.87	18.67	18.50	24.78	24.81
2457MHz	Pass	11.19	17.48	17.68	17.28	17.27	23.45	24.81
2462MHz	Pass	11.19	15.60	15.50	15.27	15.15	21.40	24.81

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-2.90
802.11g_Nss1,(6Mbps)_1TX	-4.96
802.11ax HEW20_Nss1,(MCS0)_1TX	-3.91

RBW = 3kHz;

Result

Mode	Result	DG	Port 1	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	-2.90	-2.90	8.00
2437MHz	Pass	3.70	-4.79	-4.79	8.00
2462MHz	Pass	3.70	-5.60	-5.60	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	-9.87	-9.87	8.00
2437MHz	Pass	3.70	-4.96	-4.96	8.00
2462MHz	Pass	3.70	-10.50	-10.50	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.70	-9.35	-9.35	8.00
2437MHz	Pass	3.70	-3.91	-3.91	8.00
2462MHz	Pass	3.70	-9.47	-9.47	8.00

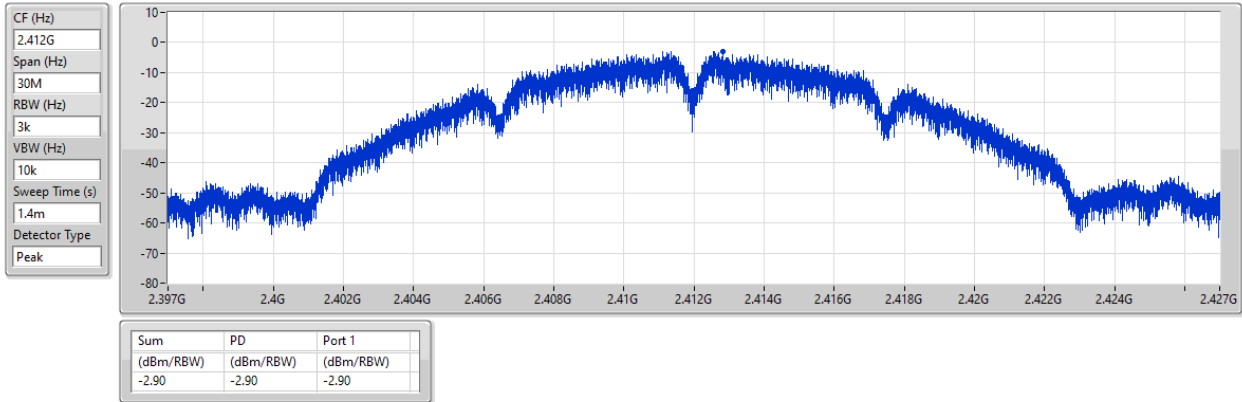
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

21/12/2024

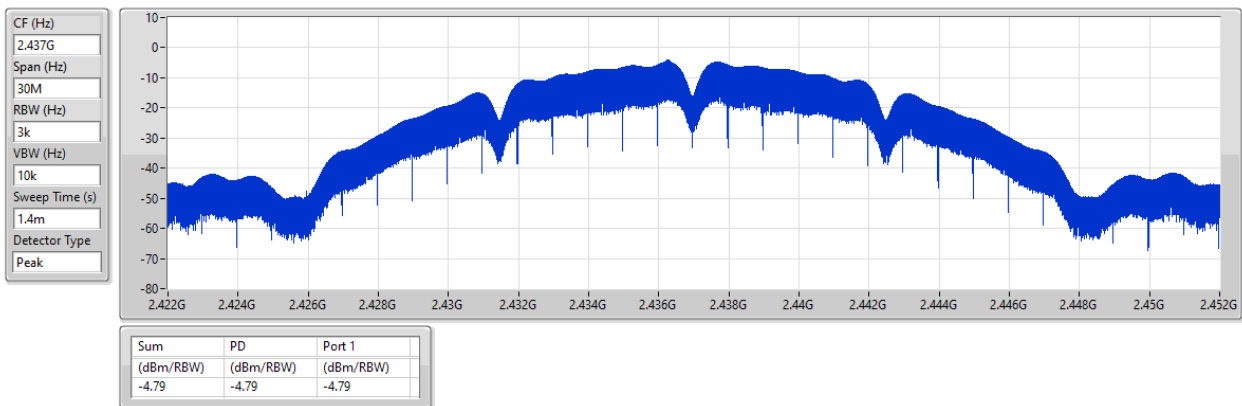


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

21/12/2024

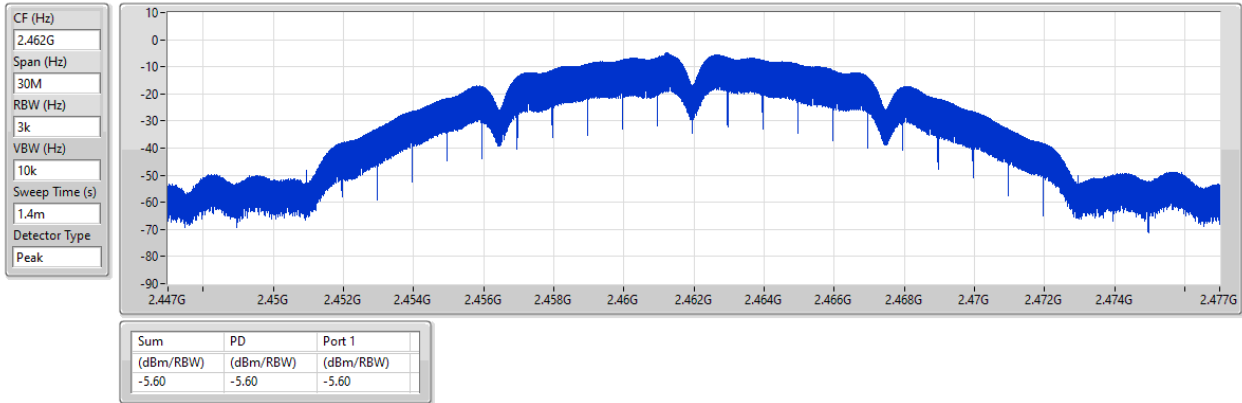


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

21/12/2024

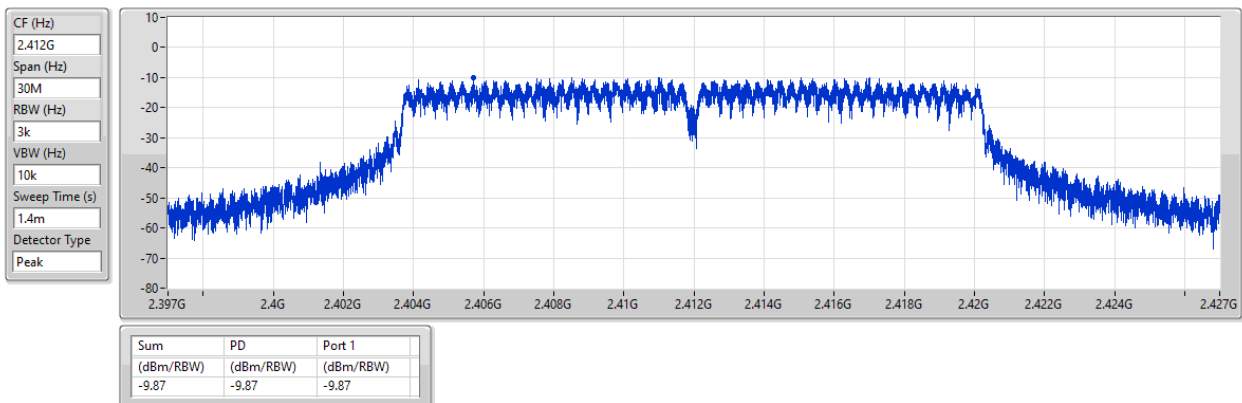


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

21/12/2024

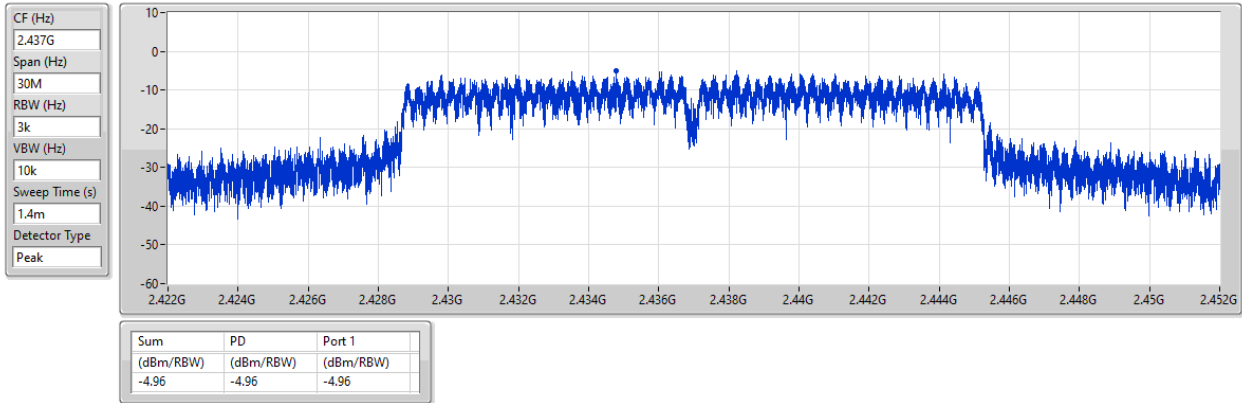


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

21/12/2024

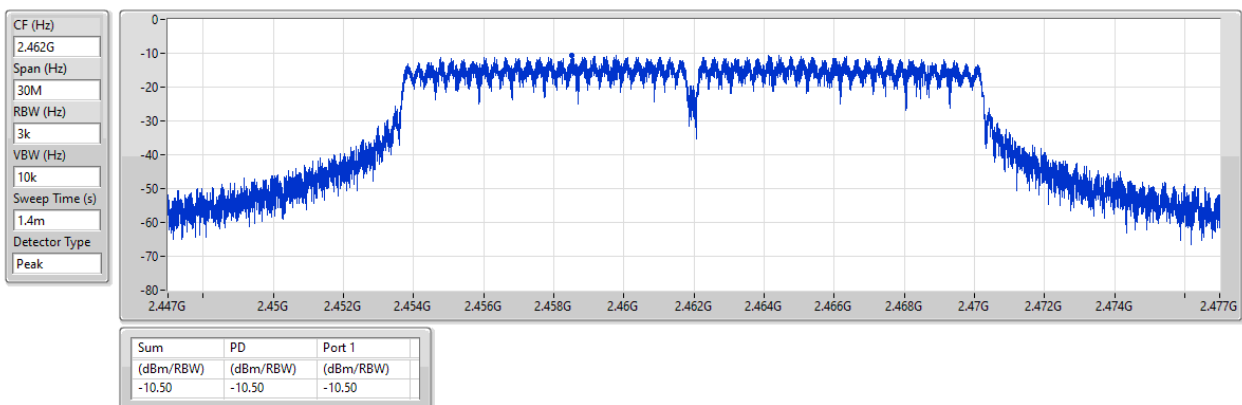


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

21/12/2024

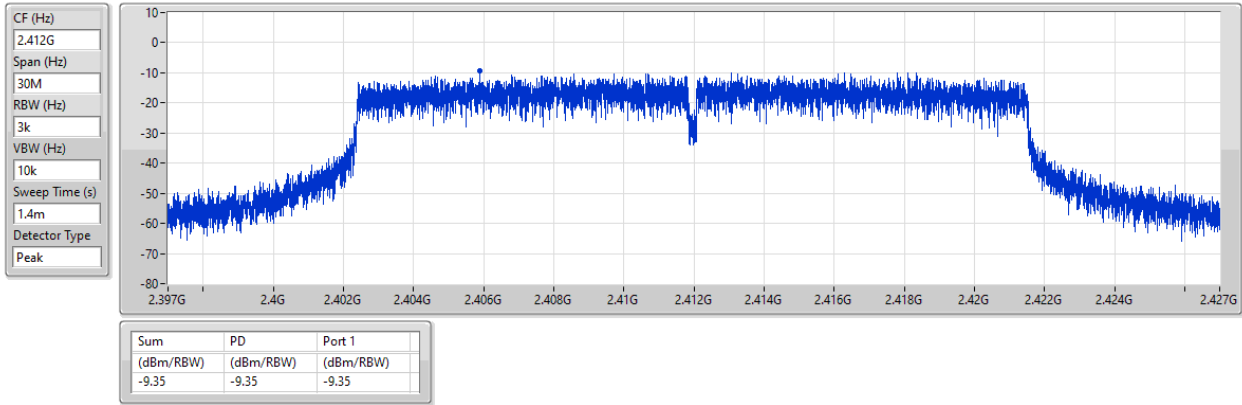


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2412MHz

21/12/2024

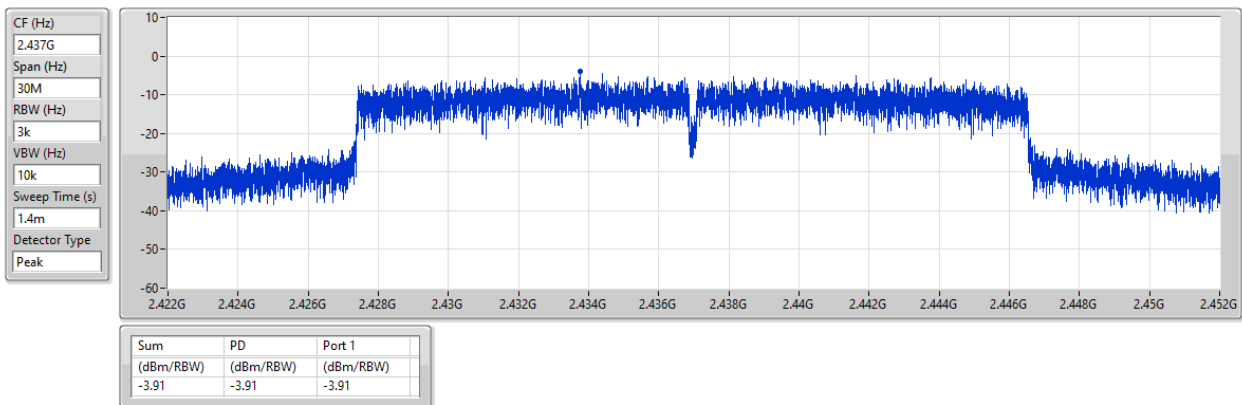


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2437MHz

21/12/2024

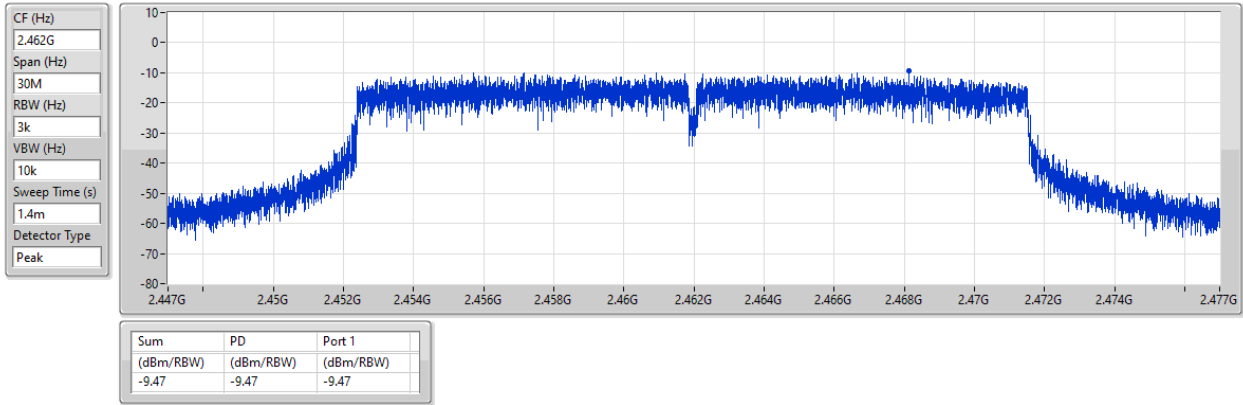


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

2462MHz

21/12/2024





Summary

Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-3.11
802.11b_Nss1,(1Mbps)_2TX	-0.68
802.11b_Nss1,(1Mbps)_4TX	4.27
802.11g_Nss1,(6Mbps)_1TX	-5.36
802.11g_Nss1,(6Mbps)_2TX	-2.80
802.11g_Nss1,(6Mbps)_4TX	-1.60
802.11be EHT20_Nss1,(MCS0)_1TX	-4.92
802.11be EHT20_Nss1,(MCS0)_2TX	-3.36
802.11be EHT20_Nss1,(MCS0)_4TX	-1.15

RBW = 3kHz;

Result

Mode	Result	DG	Port 1	Port 2	Port 3	Port 4	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	-3.11				-3.11	8.00
2437MHz	Pass	5.00	-3.59				-3.59	8.00
2462MHz	Pass	5.00	-3.83				-3.83	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	-6.04				-6.04	8.00
2437MHz	Pass	5.00	-6.41				-6.41	8.00
2462MHz	Pass	5.00	-5.36				-5.36	8.00
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	-6.15				-6.15	8.00
2437MHz	Pass	5.00	-4.92				-4.92	8.00
2462MHz	Pass	5.00	-6.59				-6.59	8.00
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	-4.85	-3.50			-1.36	8.00
2437MHz	Pass	5.00	-3.93	-3.71			-0.81	8.00
2462MHz	Pass	5.00	-3.26	-3.67			-0.68	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	-5.68	-7.41			-4.21	8.00
2437MHz	Pass	5.00	-5.07	-5.46			-3.68	8.00
2462MHz	Pass	5.00	-5.94	-3.77			-2.80	8.00
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.00	-7.52	-6.78			-4.97	8.00
2437MHz	Pass	5.00	-5.05	-4.87			-3.69	8.00
2462MHz	Pass	5.00	-6.41	-5.37			-3.36	8.00
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.95	-5.32	-4.97	-5.29	-4.92	0.46	6.05
2437MHz	Pass	7.95	-4.18	-4.01	-4.38	-3.39	1.91	6.05
2462MHz	Pass	7.95	-2.57	-1.34	-1.54	-1.50	4.27	6.05
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.95	-9.15	-9.40	-7.05	-8.52	-3.53	6.05
2437MHz	Pass	7.95	-6.21	-6.03	-7.08	-6.73	-1.60	6.05
2462MHz	Pass	7.95	-5.67	-6.16	-7.15	-8.32	-3.00	6.05
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.95	-10.06	-8.80	-10.84	-9.87	-4.87	6.05
2437MHz	Pass	7.95	-4.76	-5.40	-5.50	-4.44	-1.15	6.05
2462MHz	Pass	7.95	-8.78	-8.09	-8.86	-8.00	-4.64	6.05

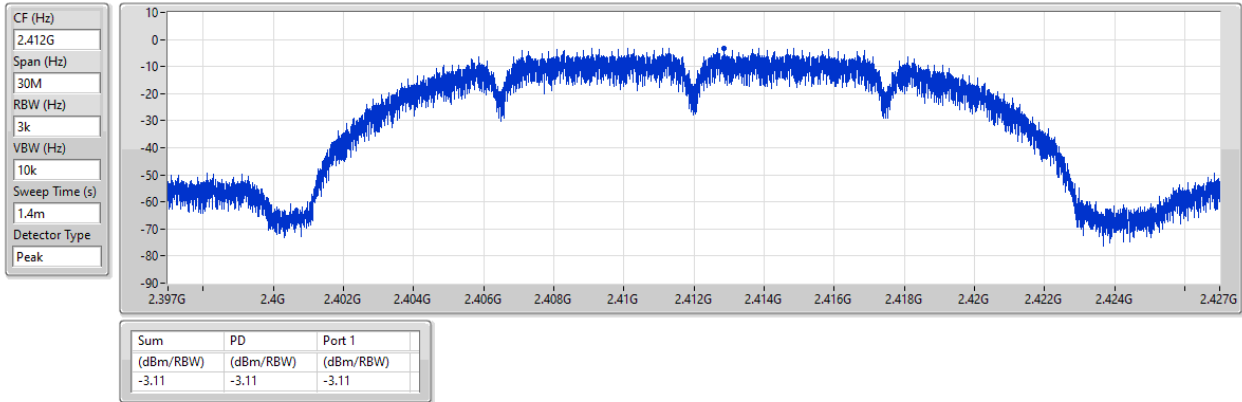
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

27/12/2024

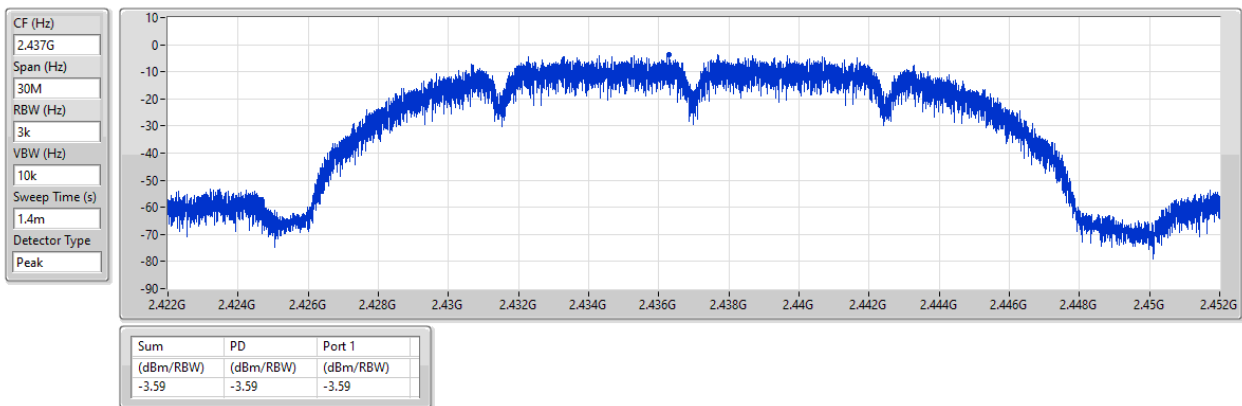


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

27/12/2024

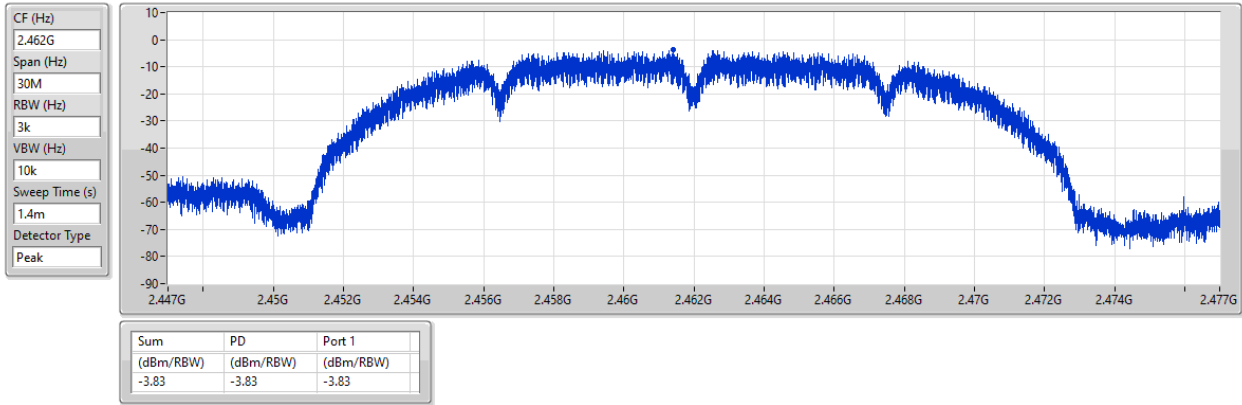


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

27/12/2024

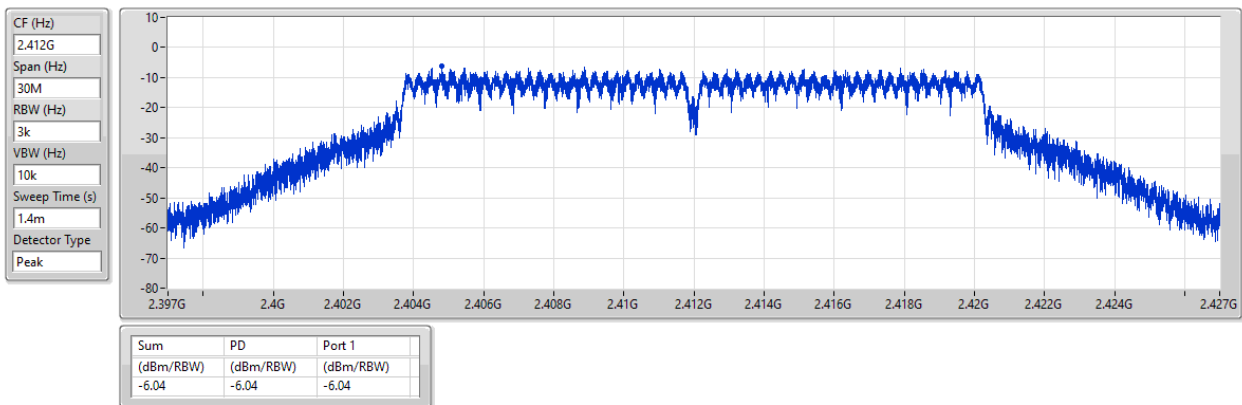


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

28/12/2024

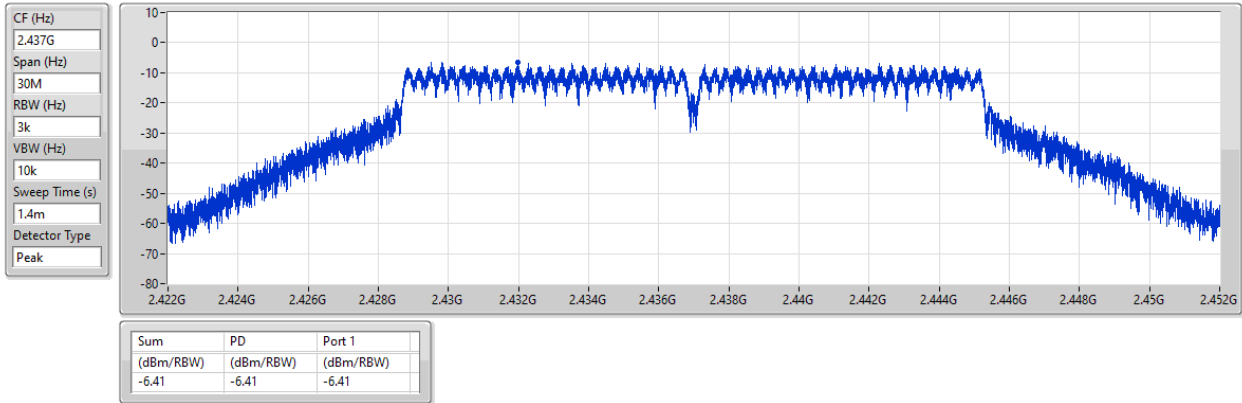


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

28/12/2024

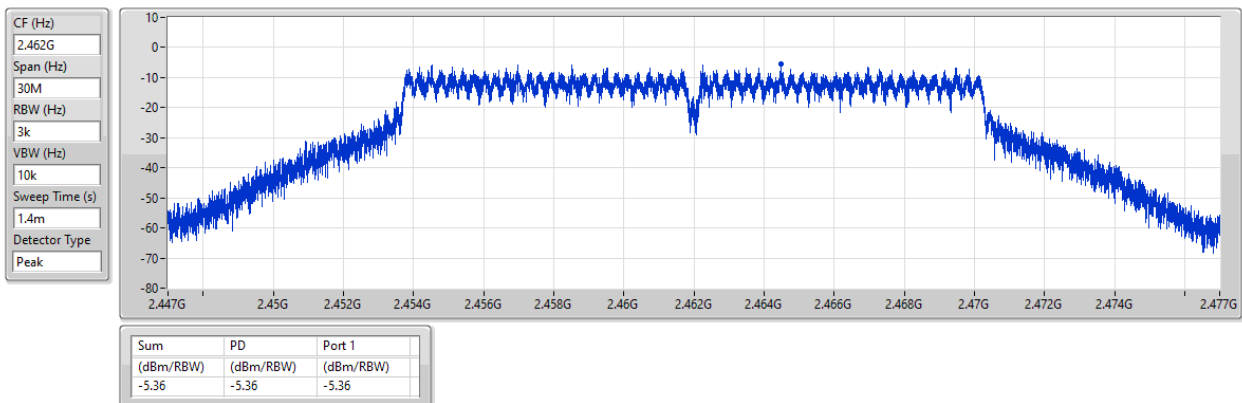


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

28/12/2024

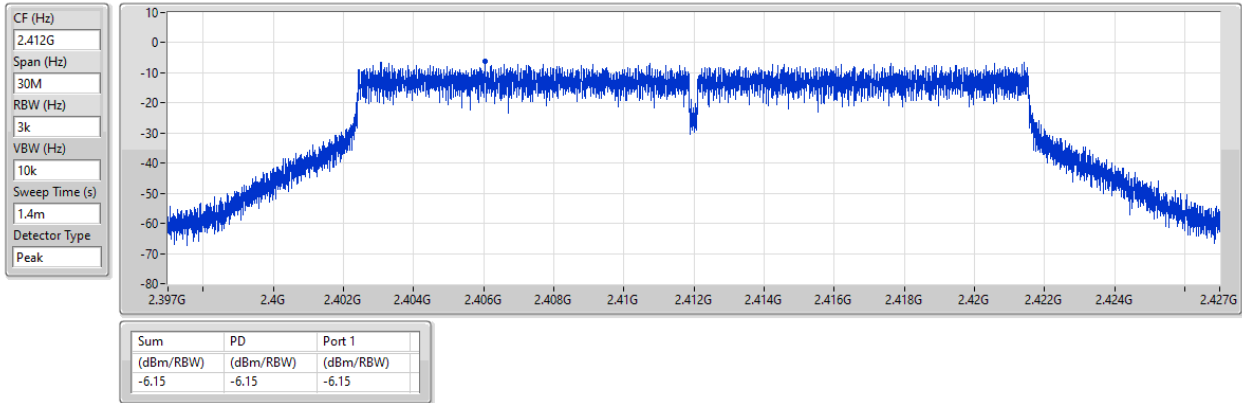


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX

PSD

2412MHz

28/12/2024

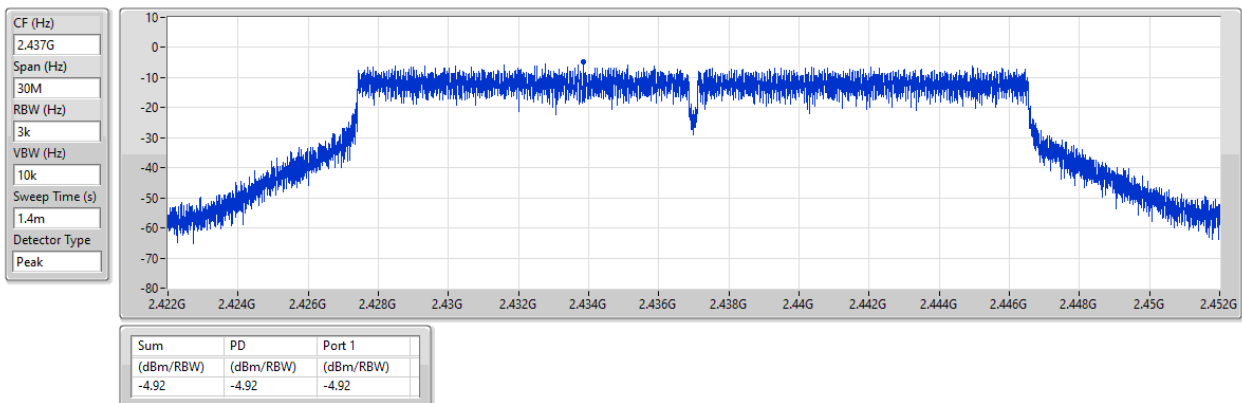


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX

PSD

2437MHz

28/12/2024

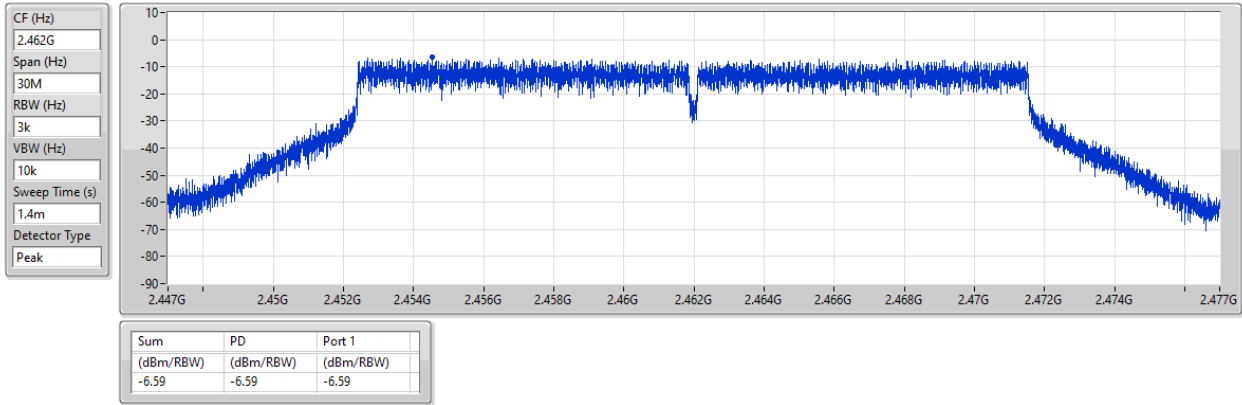


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX

PSD

2462MHz

28/12/2024

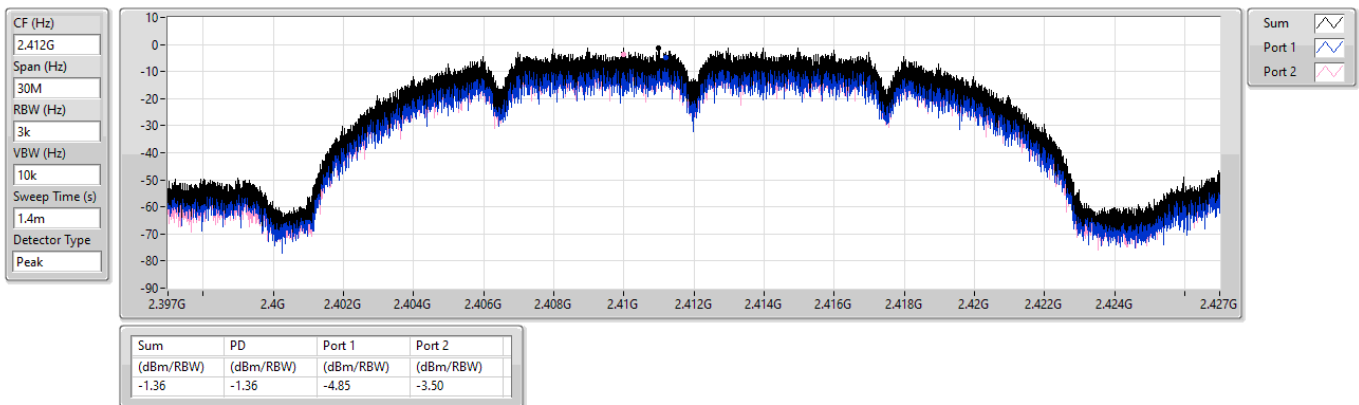


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

27/12/2024

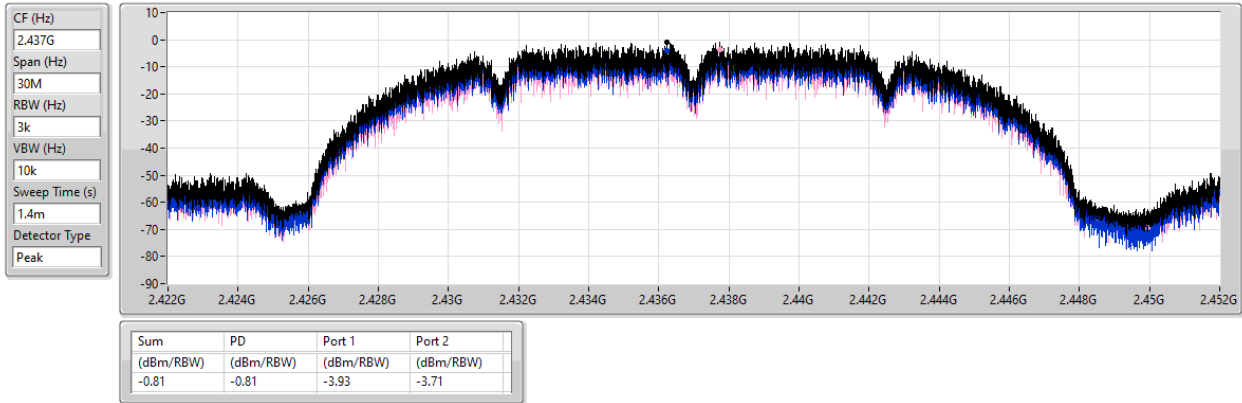


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

27/12/2024

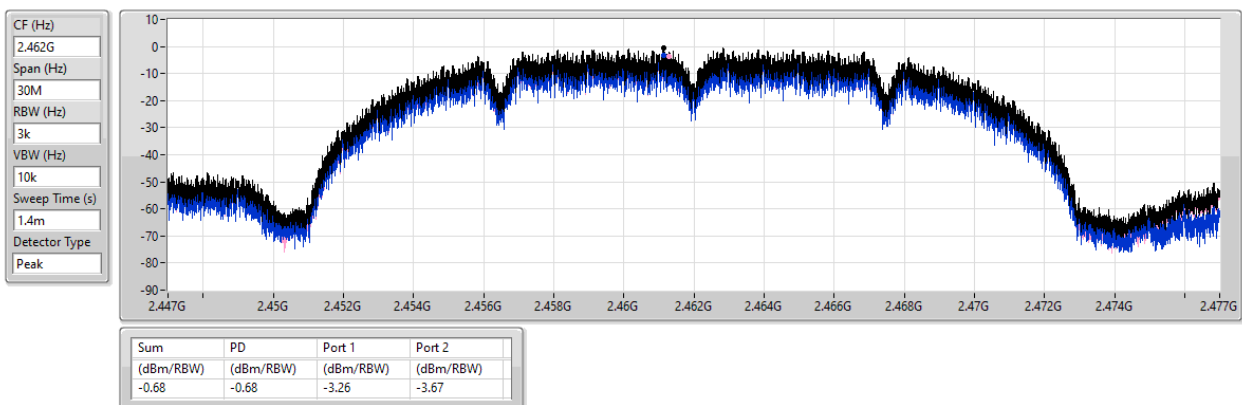


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

27/12/2024

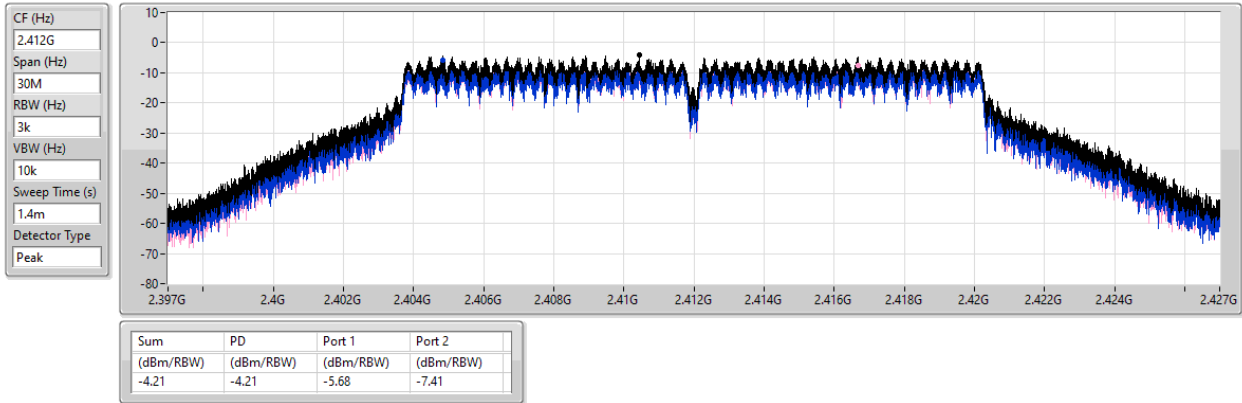


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

28/12/2024

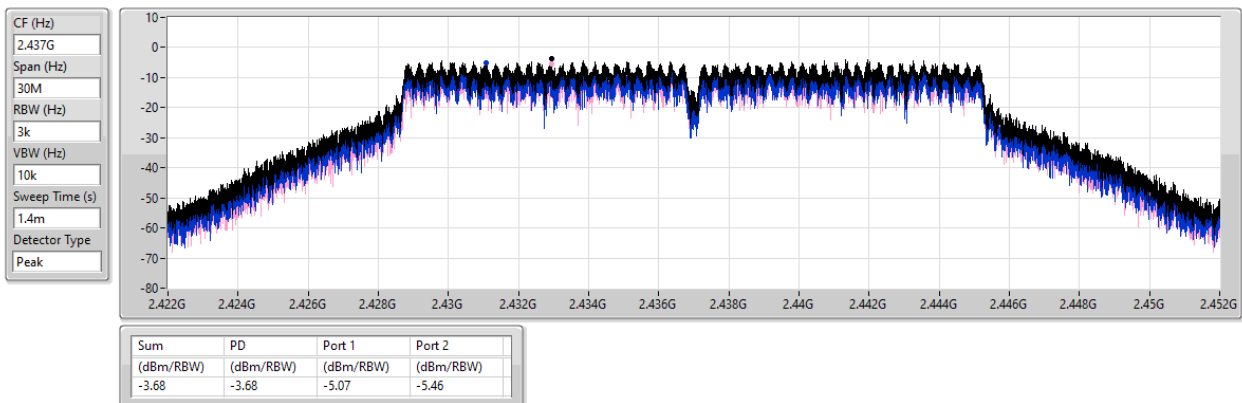


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

28/12/2024

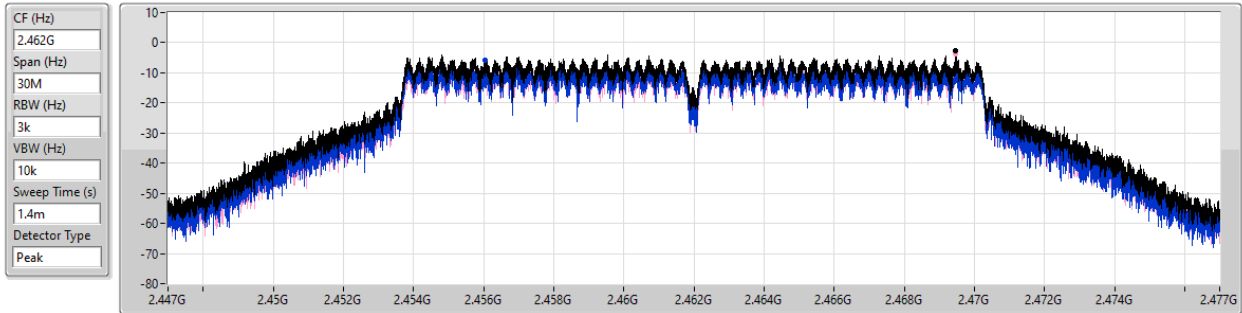


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

28/12/2024



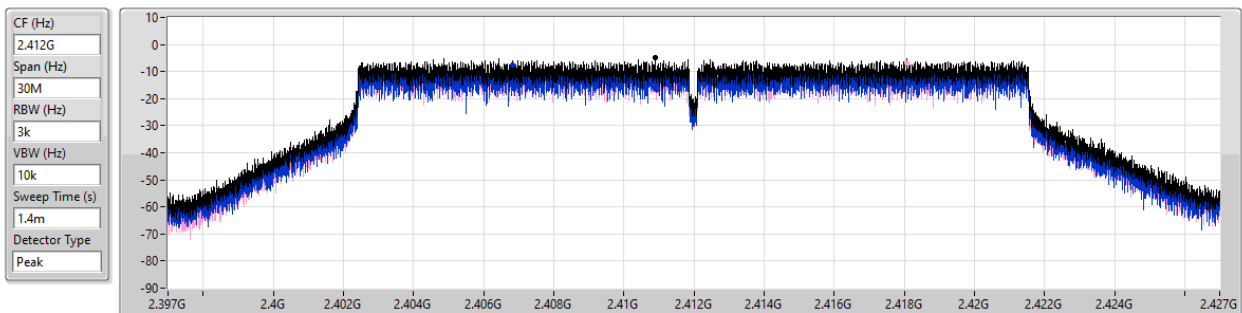
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-2.80	-2.80	-5.94	-3.77

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

2412MHz

28/12/2024



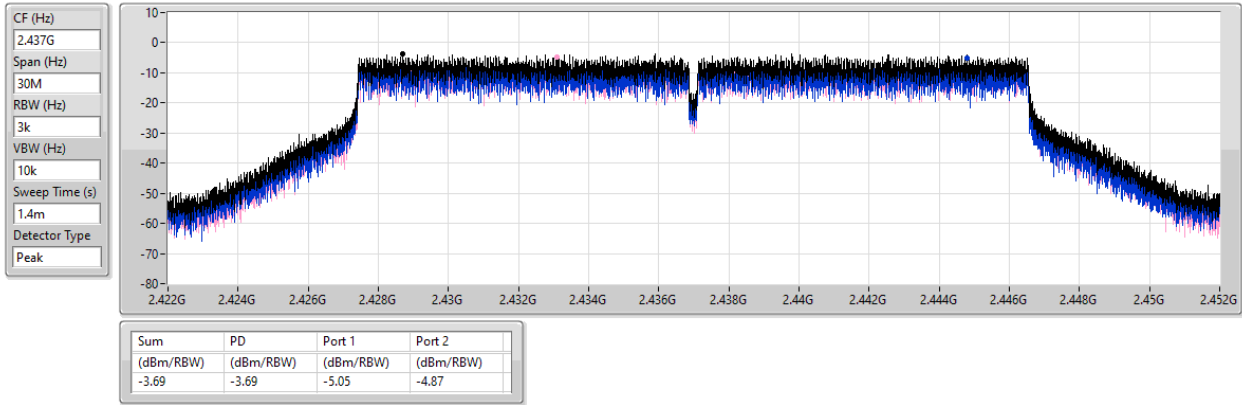
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.97	-4.97	-7.52	-6.78

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

2437MHz

28/12/2024

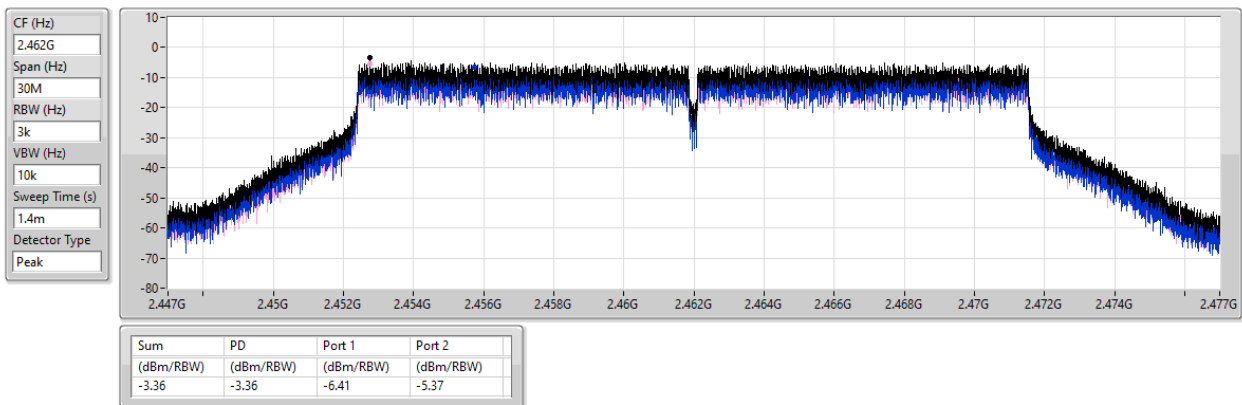


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

2462MHz

28/12/2024

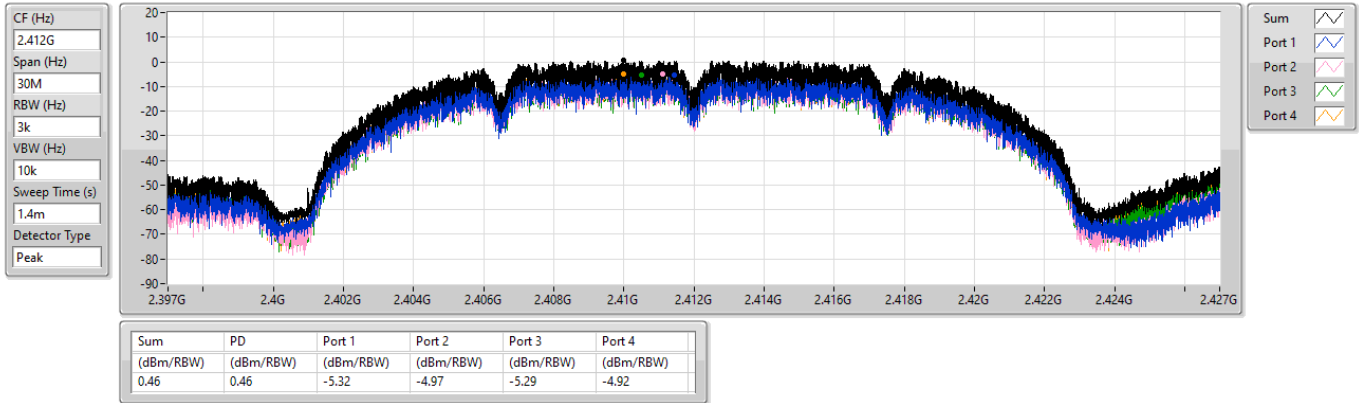


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2412MHz

27/12/2024

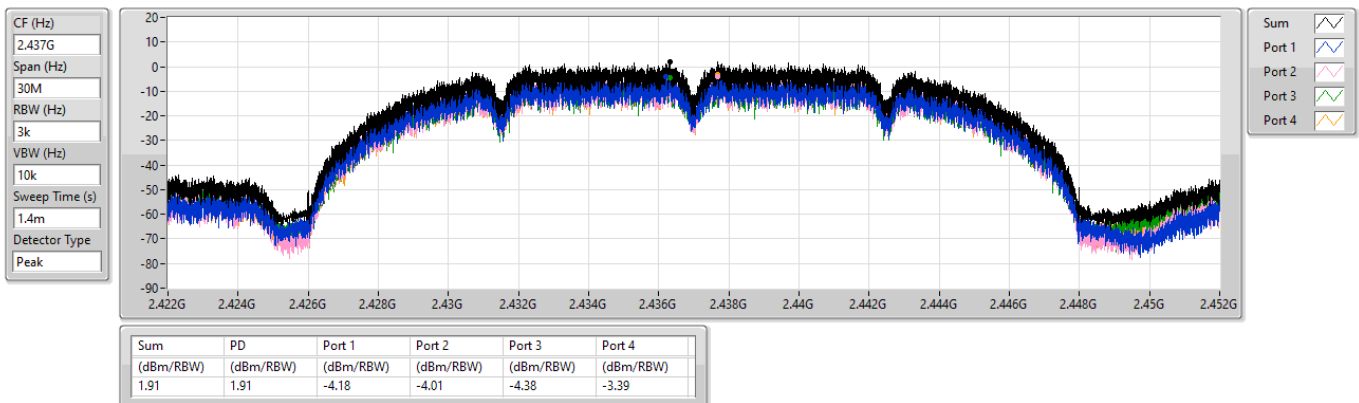


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

27/12/2024

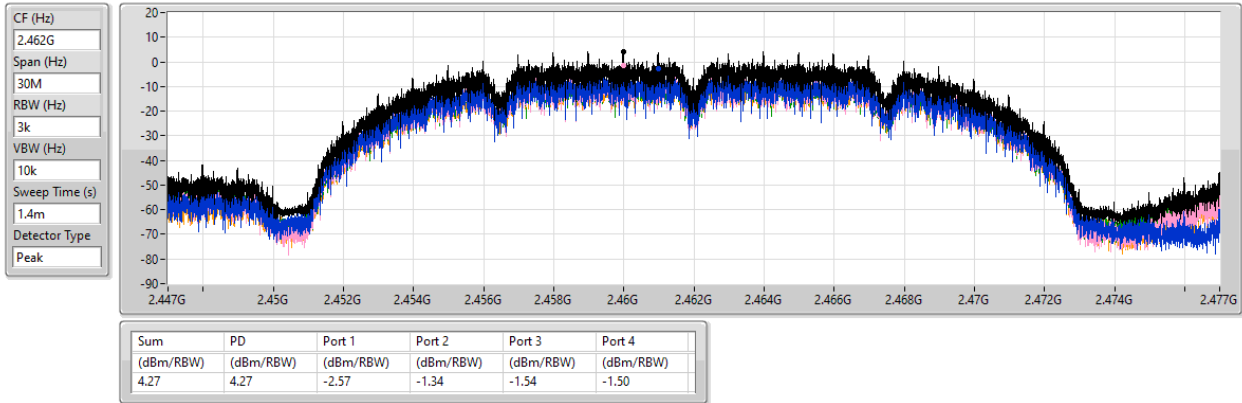


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2462MHz

27/12/2024

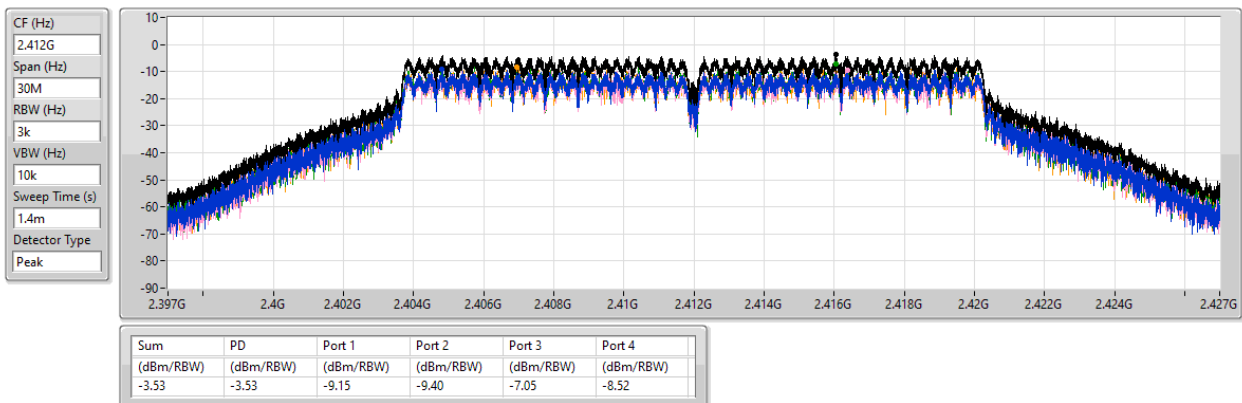


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

2412MHz

28/12/2024

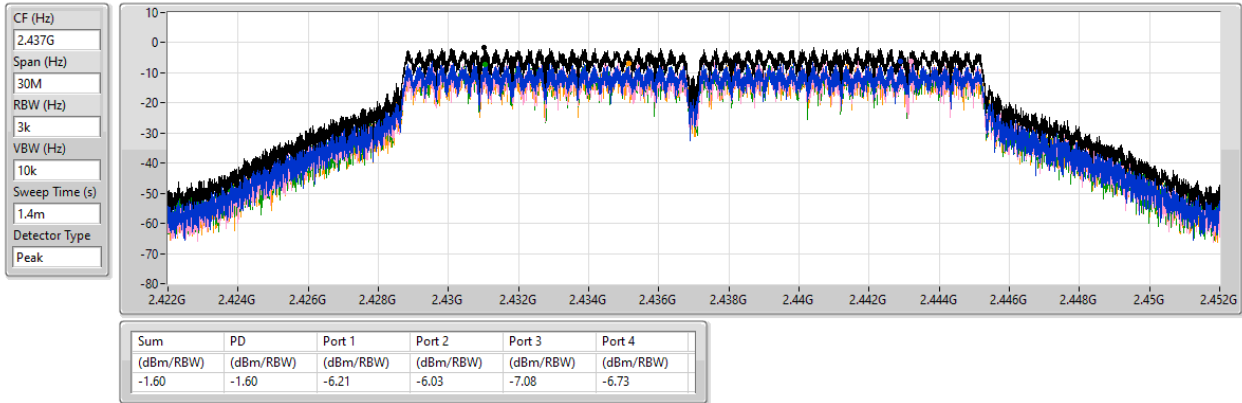


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

2437MHz

28/12/2024

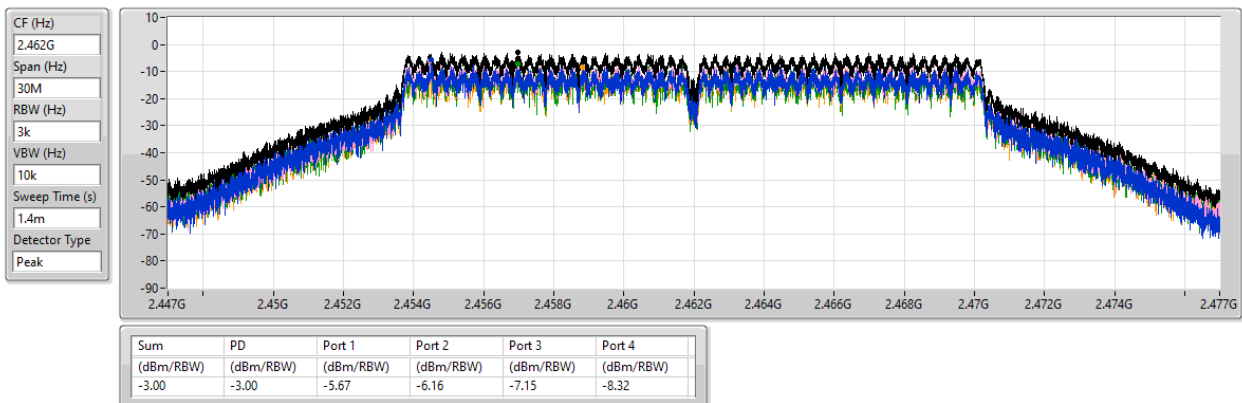


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

2462MHz

28/12/2024

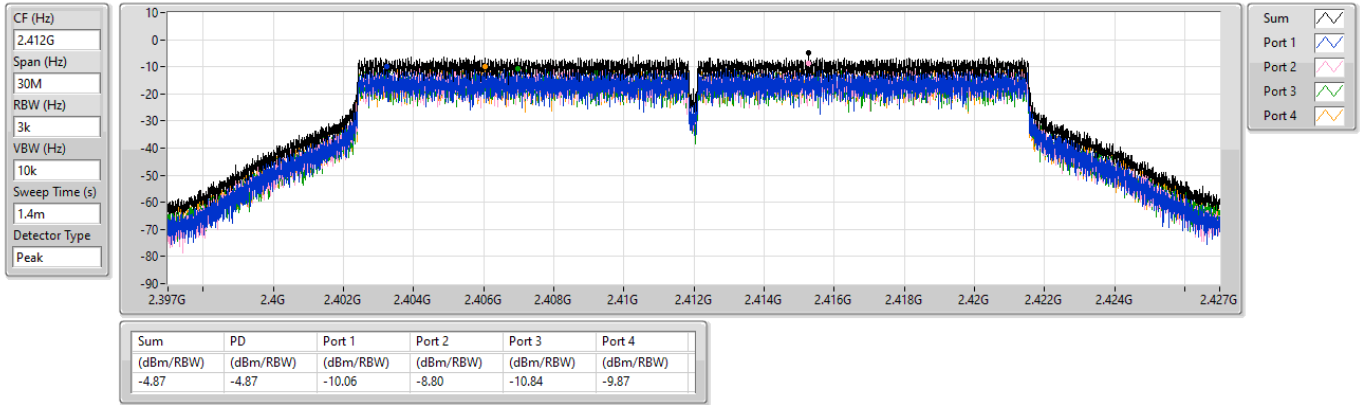


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

2412MHz

28/12/2024



2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

2437MHz

28/12/2024

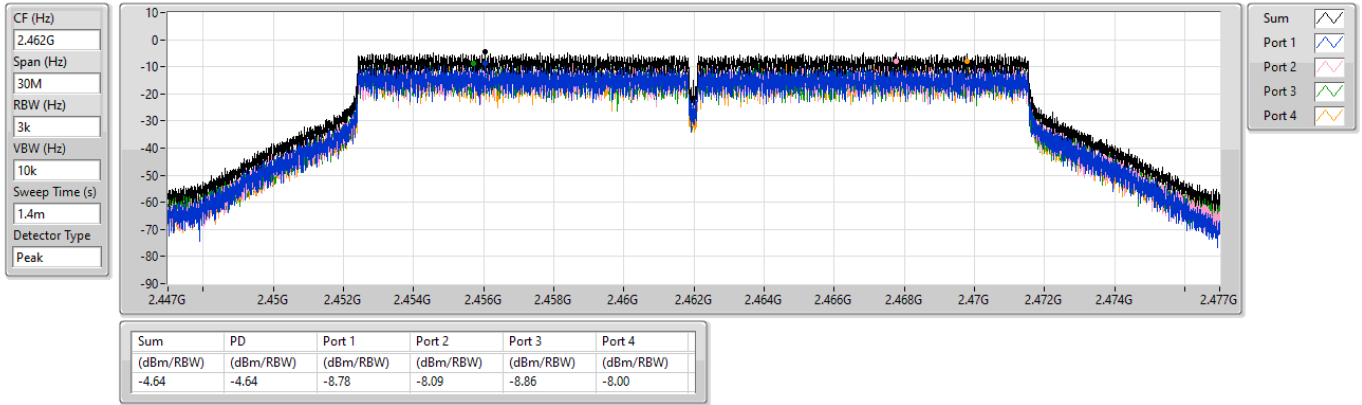


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

2462MHz

28/12/2024



Summary

Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-2.38
802.11b_Nss1,(1Mbps)_2TX	0.65
802.11b_Nss1,(1Mbps)_4TX	0.38
802.11g_Nss1,(6Mbps)_1TX	-5.63
802.11g_Nss1,(6Mbps)_2TX	-3.60
802.11g_Nss1,(6Mbps)_4TX	-2.80
802.11be EHT20_Nss1,(MCS0)_1TX	-4.89
802.11be EHT20_Nss1,(MCS0)_2TX	-2.92
802.11be EHT20_Nss1,(MCS0)_4TX	-2.15

RBW = 3kHz;

Result

Mode	Result	DG	Port 1	Port 2	Port 3	Port 4	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	-2.38				-2.38	6.23
2437MHz	Pass	7.77	-2.54				-2.54	6.23
2462MHz	Pass	7.77	-2.98				-2.98	6.23
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	-7.78				-7.78	6.23
2437MHz	Pass	7.77	-5.63				-5.63	6.23
2462MHz	Pass	7.77	-7.55				-7.55	6.23
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.77	-5.27				-5.27	6.23
2437MHz	Pass	7.77	-4.89				-4.89	6.23
2462MHz	Pass	7.77	-6.66				-6.66	6.23
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	8.18	-2.68	-4.30			-1.45	5.82
2437MHz	Pass	8.18	-2.22	-2.88			0.45	5.82
2462MHz	Pass	8.18	-2.29	-2.43			0.65	5.82
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	8.18	-8.06	-7.81			-4.95	5.82
2437MHz	Pass	8.18	-4.59	-6.44			-3.60	5.82
2462MHz	Pass	8.18	-8.20	-5.43			-4.02	5.82
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	8.18	-6.72	-6.20			-4.61	5.82
2437MHz	Pass	8.18	-4.01	-4.64			-2.92	5.82
2462MHz	Pass	8.18	-5.60	-5.22			-4.01	5.82
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	11.19	-8.34	-6.93	-8.16	-6.92	-1.52	2.81
2437MHz	Pass	11.19	-5.11	-5.22	-4.73	-5.35	0.38	2.81
2462MHz	Pass	11.19	-5.89	-5.48	-6.36	-5.66	-0.60	2.81
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	11.19	-10.98	-12.51	-12.81	-11.15	-7.17	2.81
2437MHz	Pass	11.19	-8.03	-7.01	-8.84	-7.46	-2.80	2.81
2462MHz	Pass	11.19	-11.79	-10.55	-13.28	-12.94	-7.63	2.81
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	11.19	-11.18	-10.84	-11.38	-11.05	-7.53	2.81
2437MHz	Pass	11.19	-5.33	-6.65	-7.14	-5.98	-2.15	2.81
2462MHz	Pass	11.19	-11.70	-11.17	-11.09	-11.37	-7.66	2.81

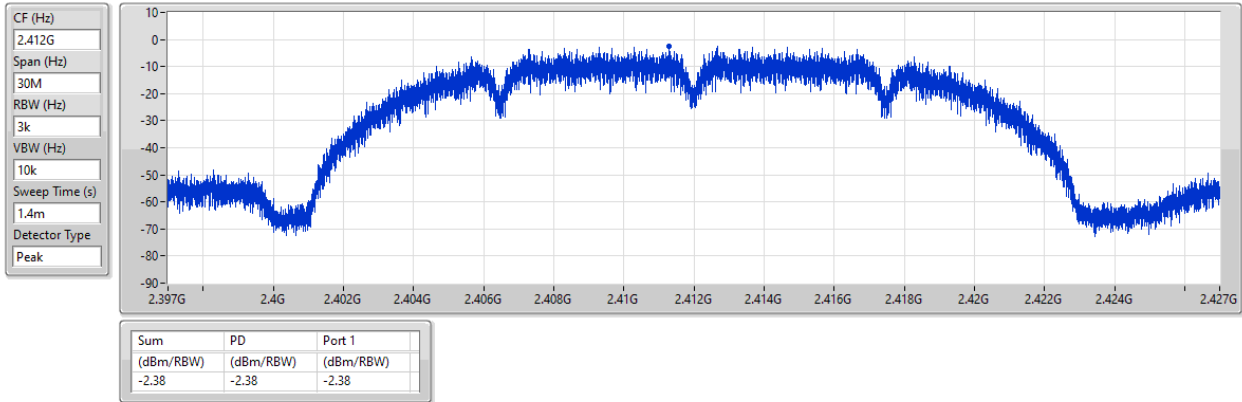
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

28/12/2024

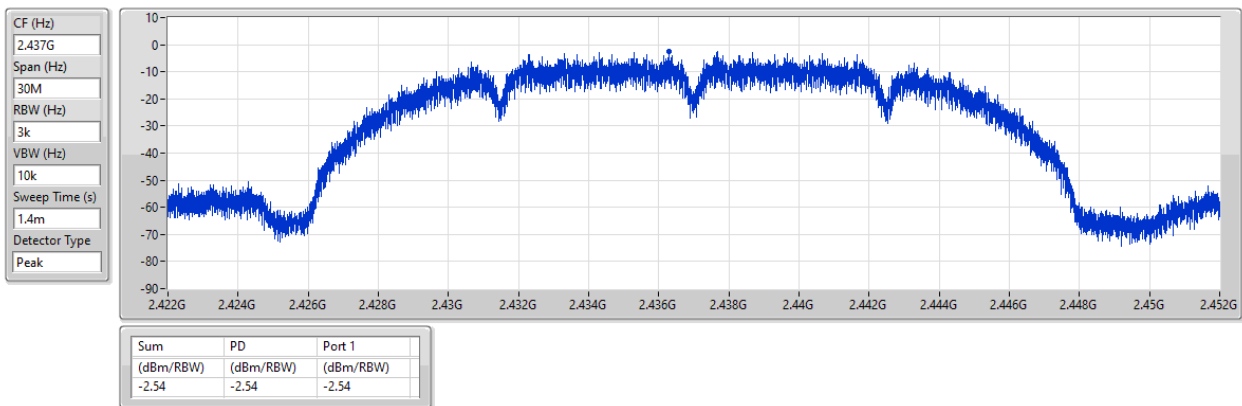


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

28/12/2024

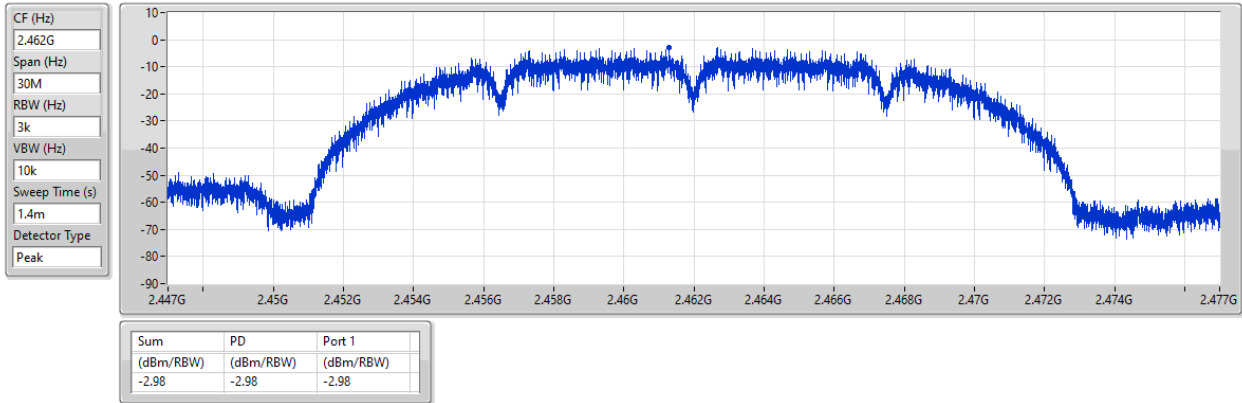


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

28/12/2024

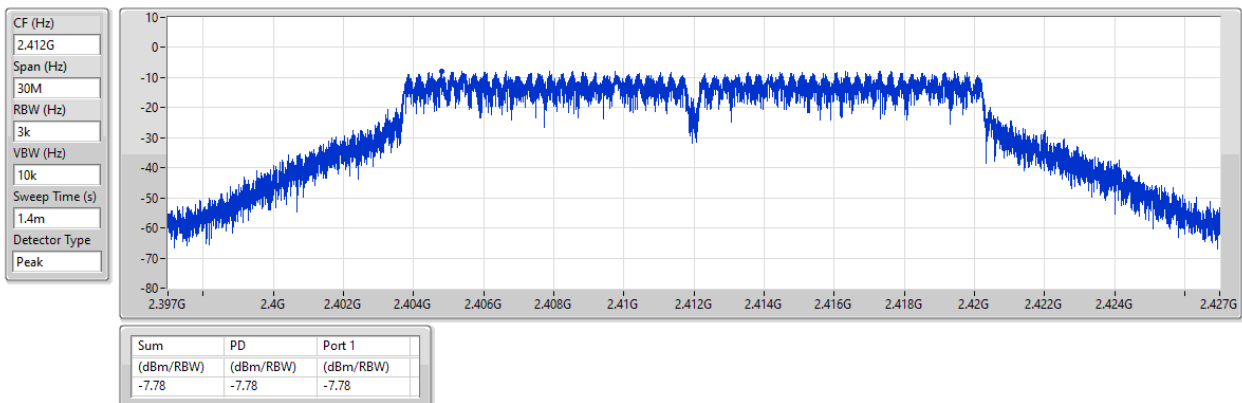


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

28/12/2024

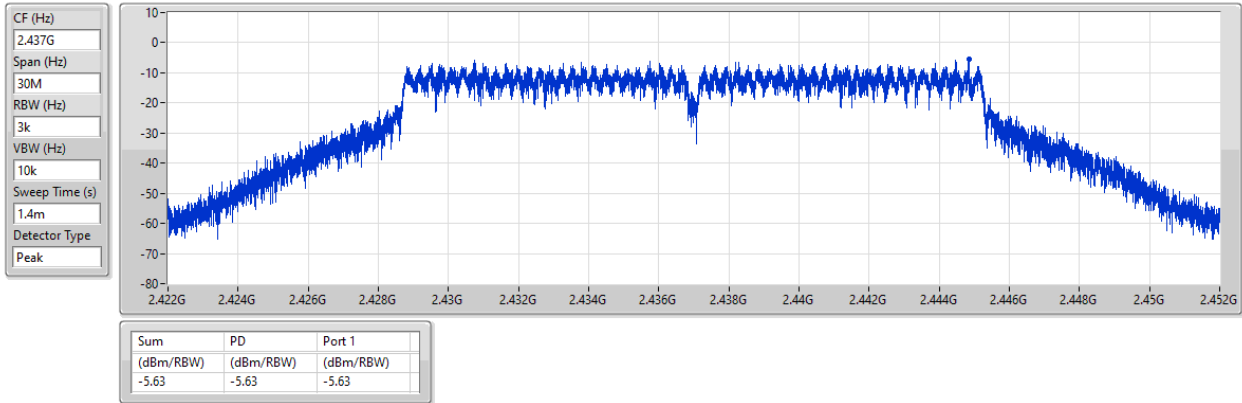


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

28/12/2024

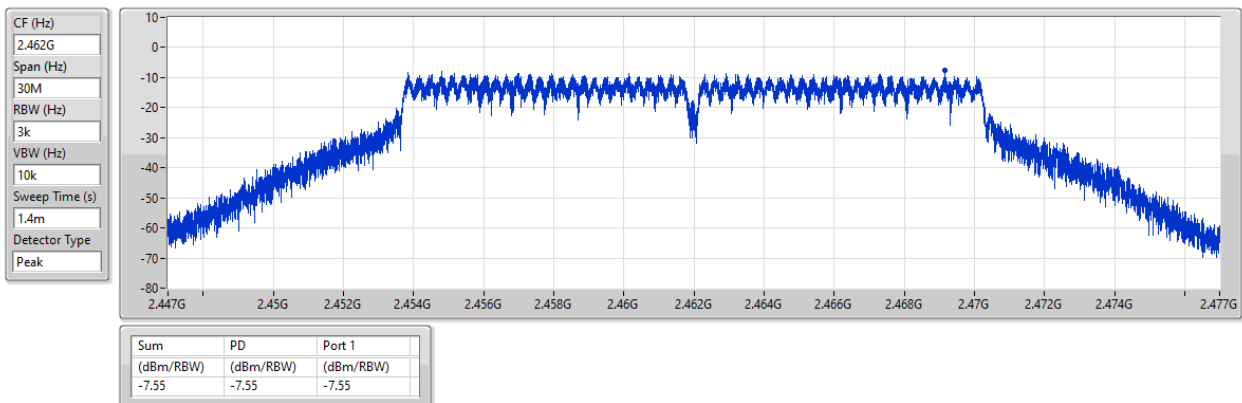


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

28/12/2024

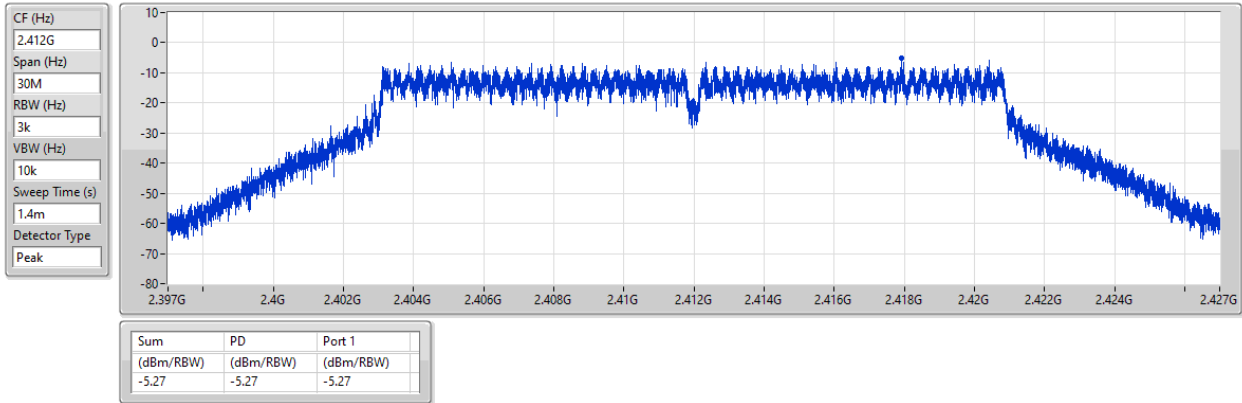


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX

PSD

2412MHz

28/12/2024

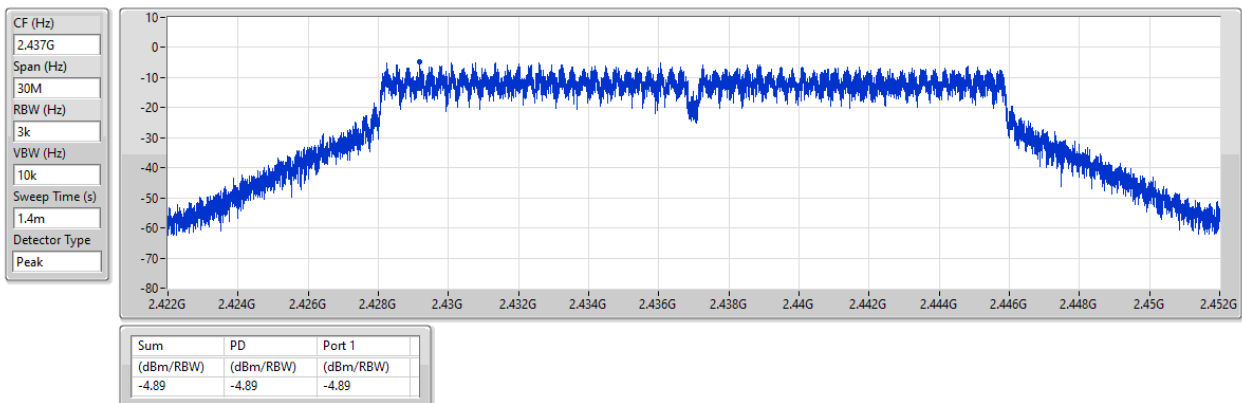


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX

PSD

2437MHz

28/12/2024

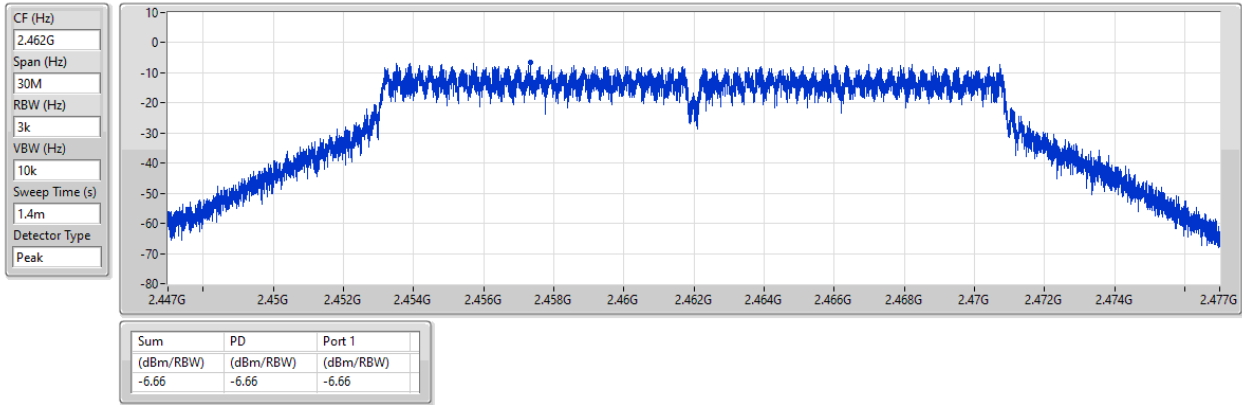


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_1TX

PSD

2462MHz

28/12/2024

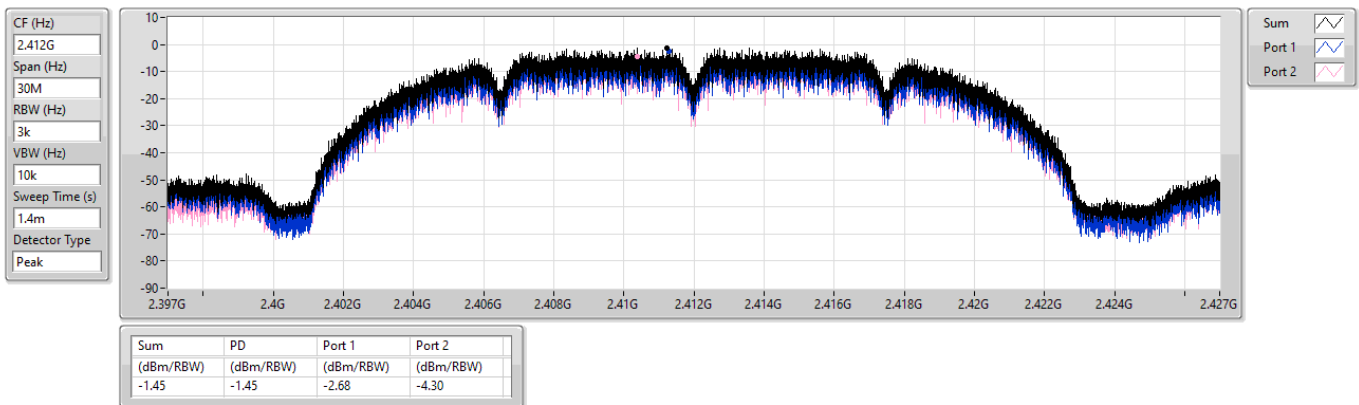


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

28/12/2024

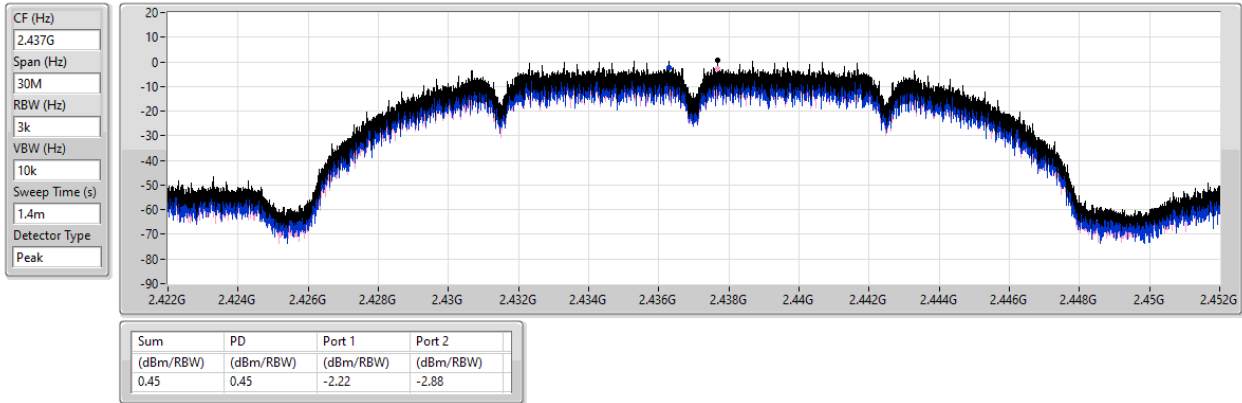


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

28/12/2024

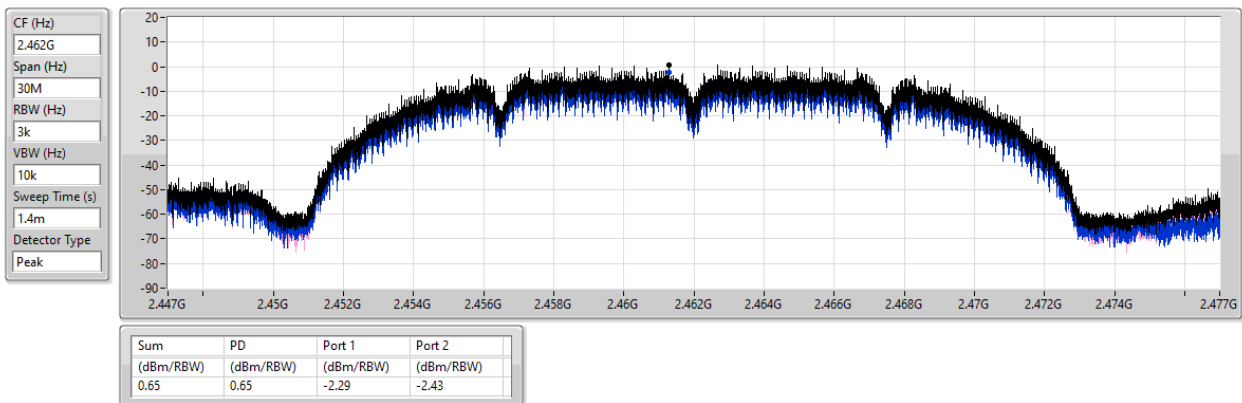


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

28/12/2024

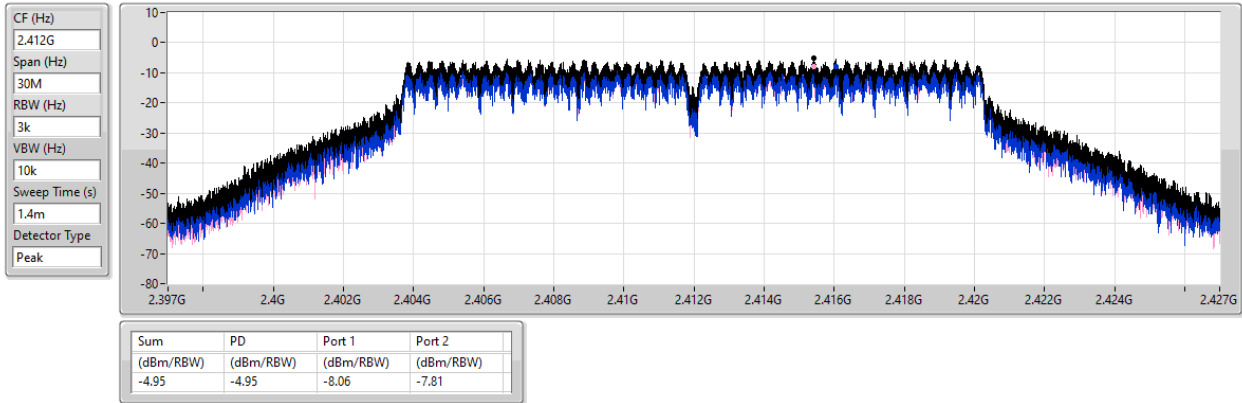


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

28/12/2024

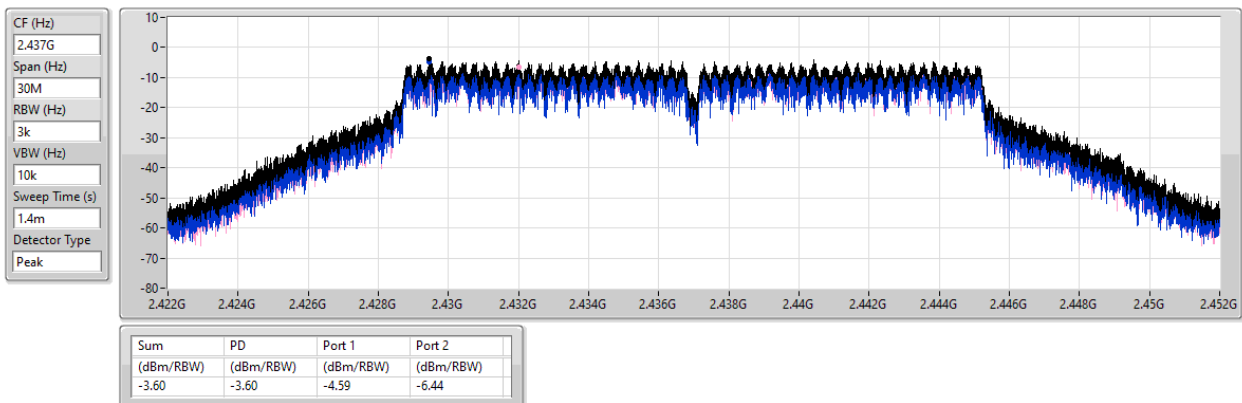


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

28/12/2024

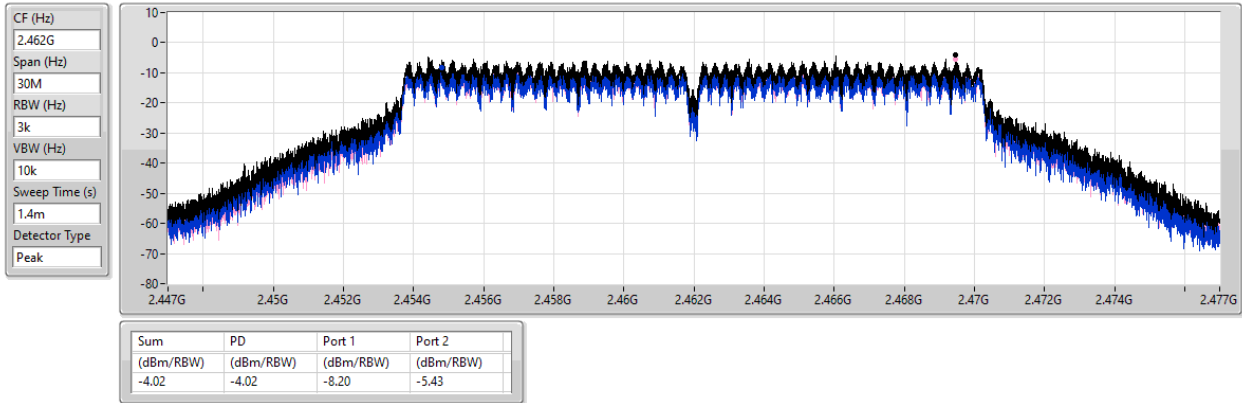


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

28/12/2024

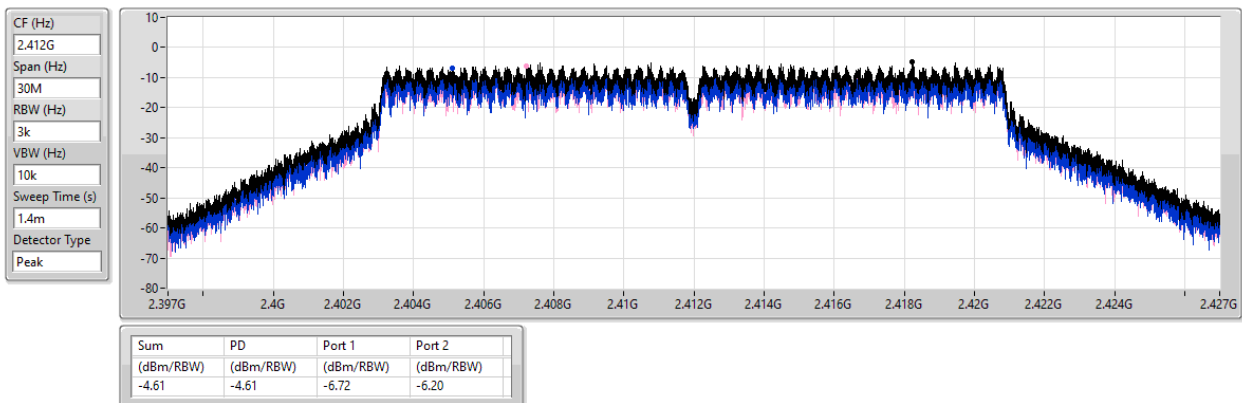


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

2412MHz

28/12/2024

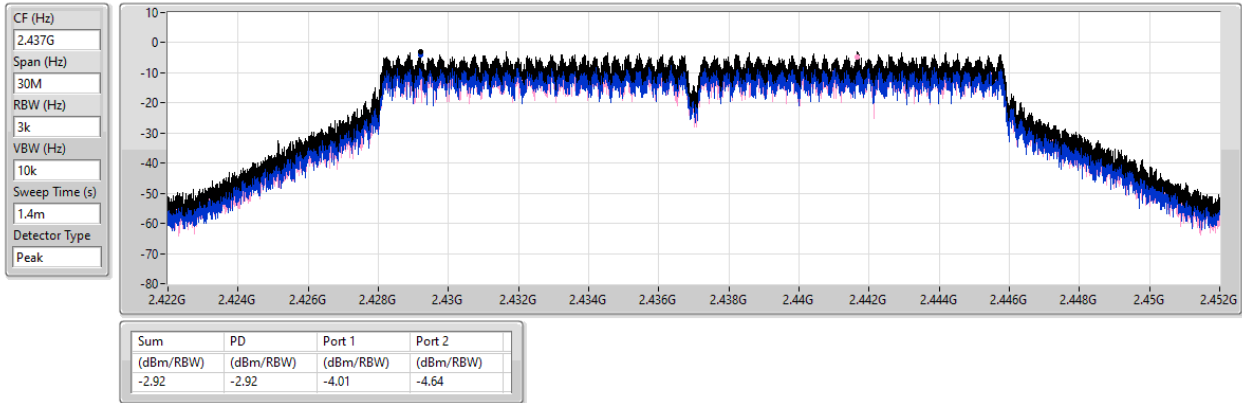


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

2437MHz

28/12/2024

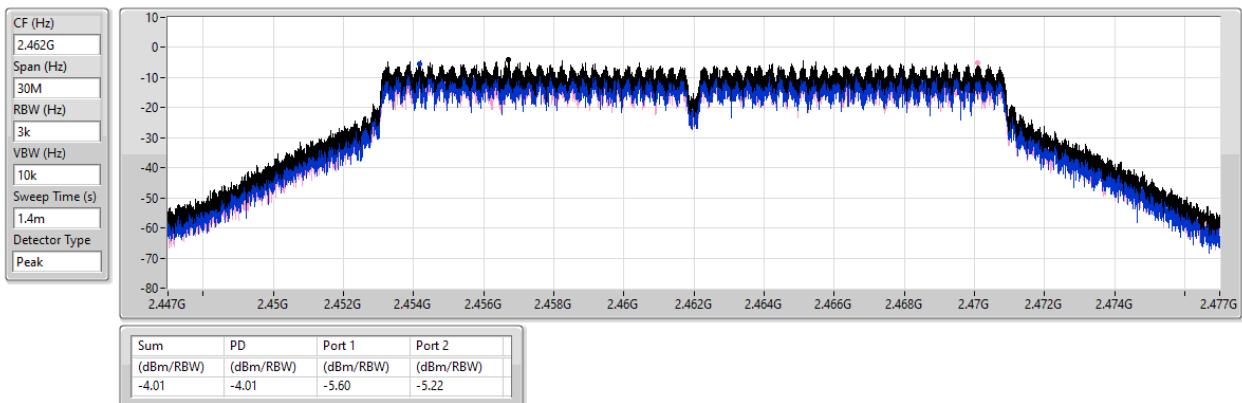


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

2462MHz

28/12/2024

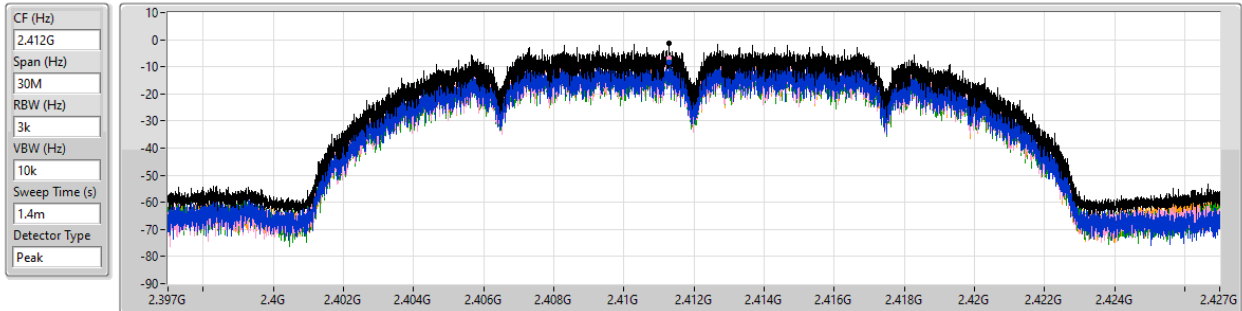


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2412MHz

28/12/2024

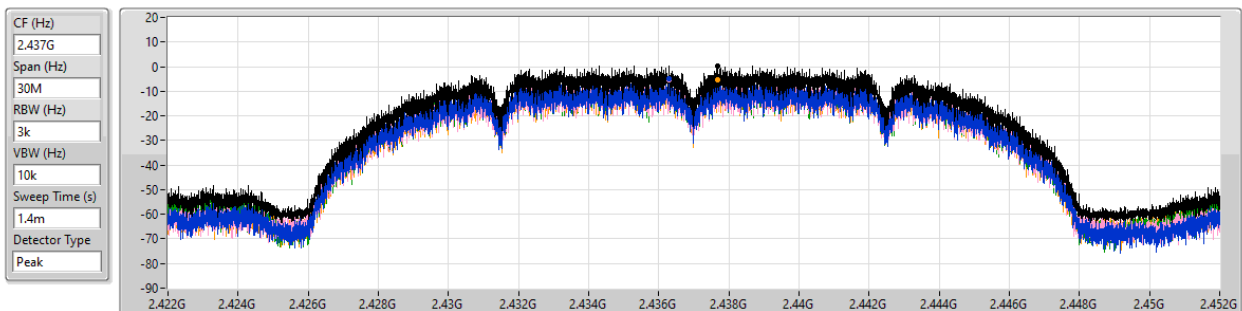


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

28/12/2024



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

2462MHz

28/12/2024

CF (Hz)
2.462G

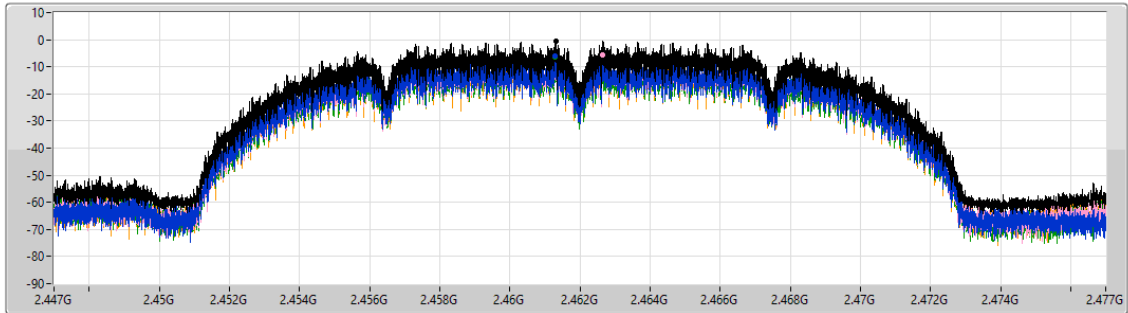
Span (Hz)
30M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
1.4m

Detector Type
Peak



Sum

Port 1

Port 2

Port 3

Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-0.60	-0.60	-5.89	-5.48	-6.36	-5.66

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

2412MHz

28/12/2024

CF (Hz)
2.412G

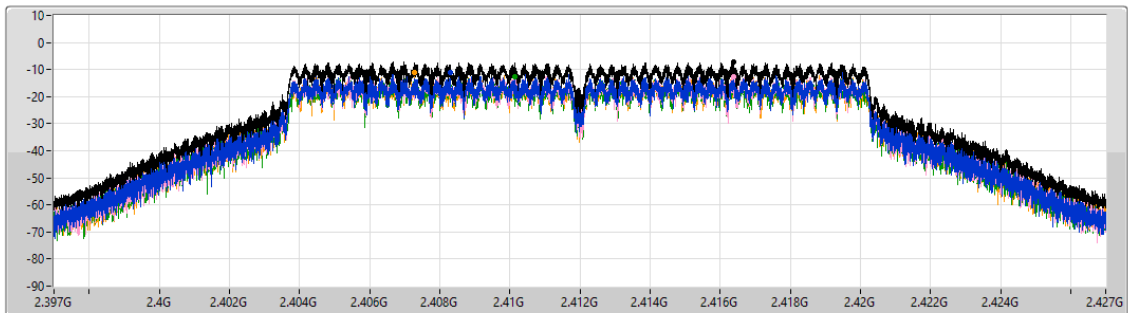
Span (Hz)
30M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
1.4m

Detector Type
Peak



Sum

Port 1

Port 2

Port 3

Port 4

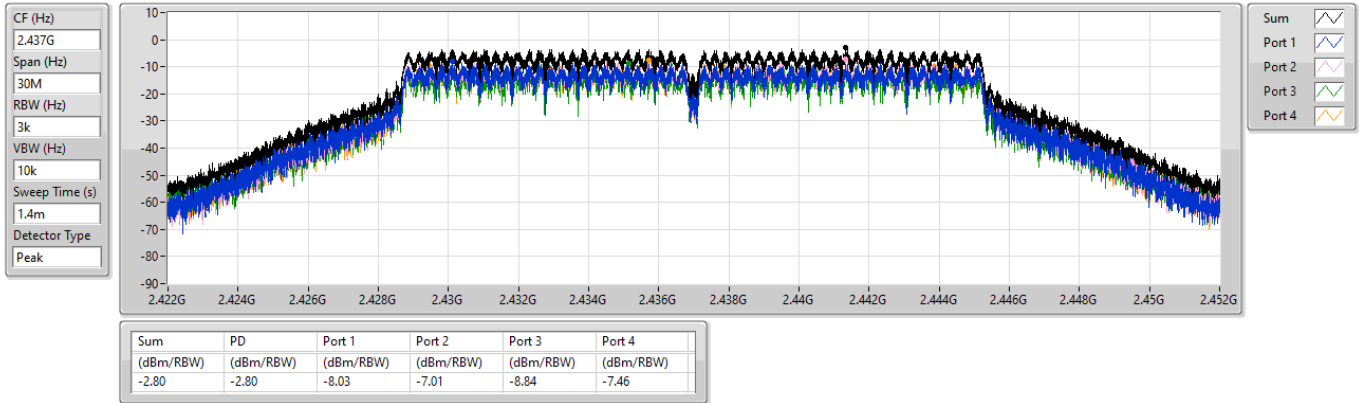
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.17	-7.17	-10.98	-12.51	-12.81	-11.15

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

2437MHz

28/12/2024

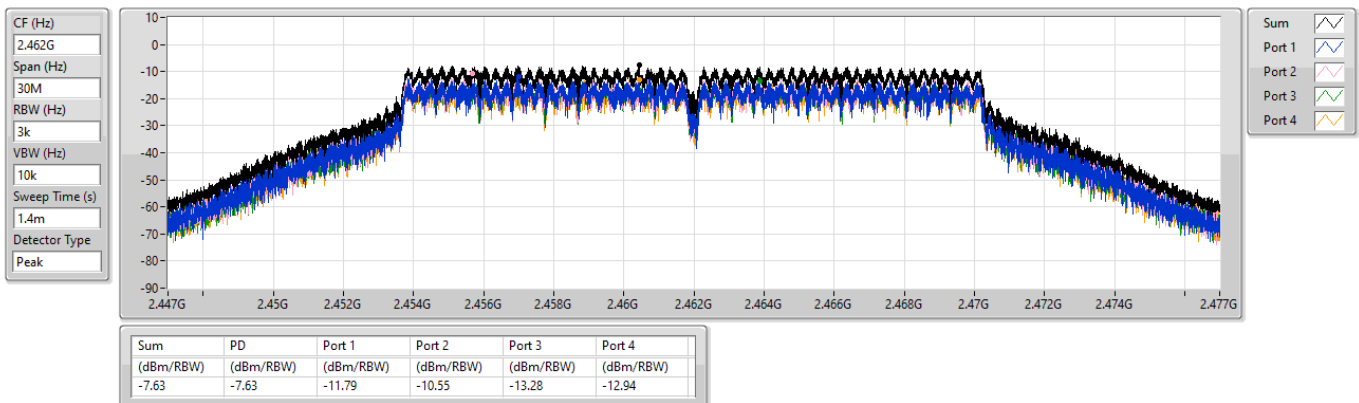


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

2462MHz

28/12/2024

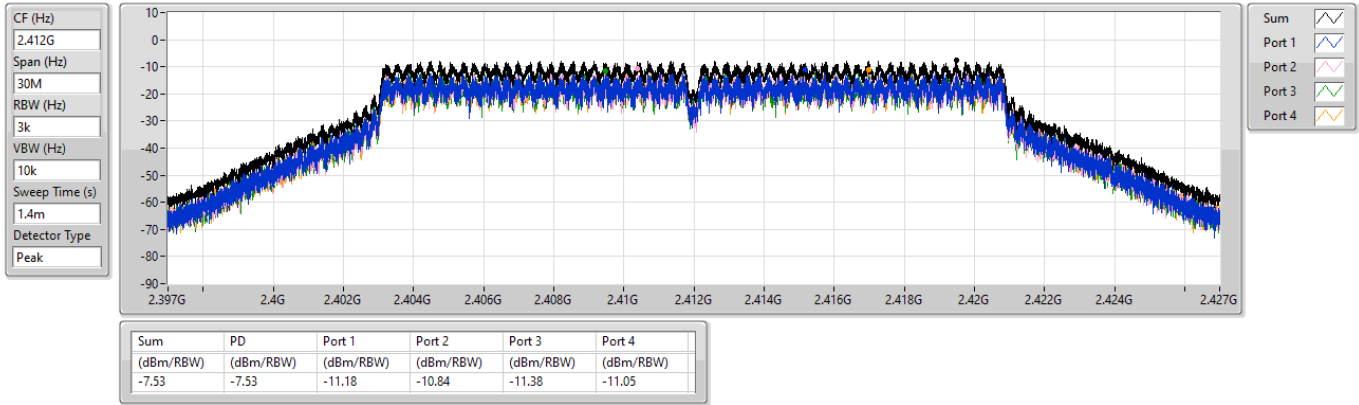


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

2412MHz

28/12/2024

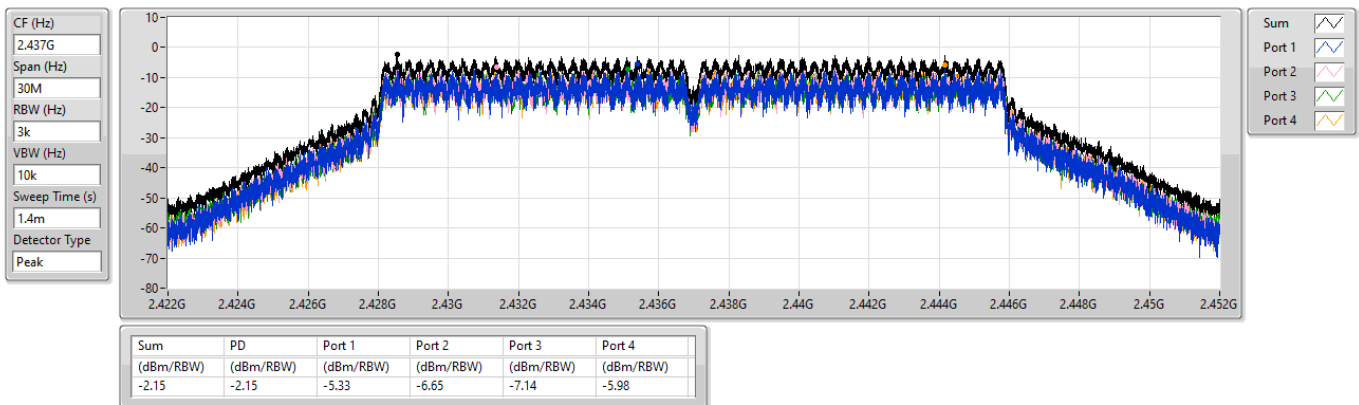


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

2437MHz

28/12/2024

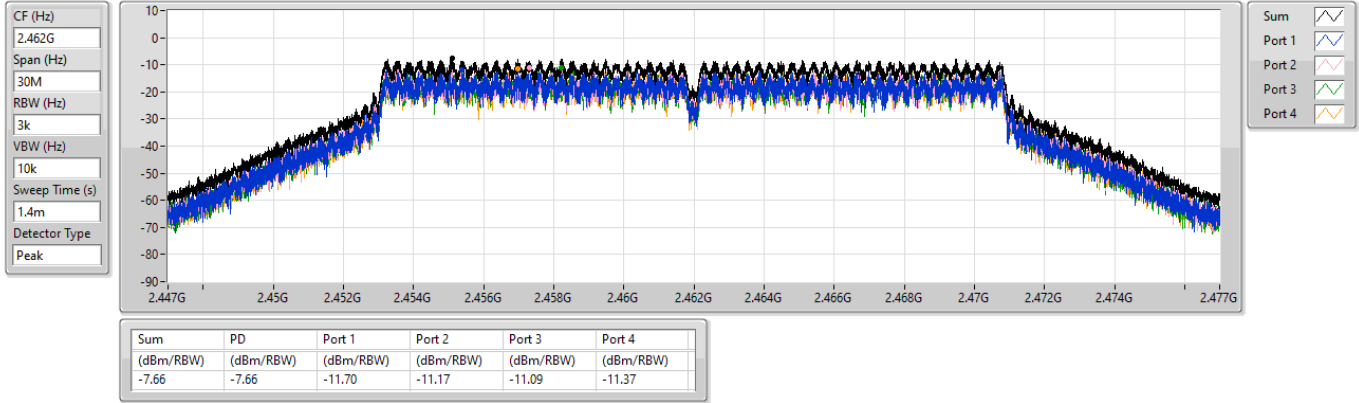


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

2462MHz

28/12/2024





Summary

Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1(1Mbps)_1TX	Pass	2.43591G	14.92	-15.08	742.98M	-54.29	2.39848G	-29.97	2.4G	-34.68	2.51238G	-51.16	21.92634G	-44.86	1
802.11g_Nss1(6Mbps)_1TX	Pass	2.44192G	13.14	-16.86	2.13982G	-53.74	2.4G	-29.09	2.4G	-28.05	2.50014G	-48.47	21.95724G	-44.26	1
802.11ax HEW20_Nss1(MCS0)_1TX	Pass	2.44192G	12.13	-17.87	2.17826G	-53.43	2.4G	-28.17	2.4G	-27.38	2.52294G	-51.06	21.86734G	-45.41	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1.(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43591G	14.92	-15.08	742.98M	-54.29	2.39848G	-29.97	2.4G	-34.68	2.51238G	-51.16	21.92634G	-44.86	1
2437MHz	Pass	2.43591G	14.92	-15.08	2.1037G	-53.65	2.39976G	-48.16	2.4G	-51.53	2.50958G	-51.08	21.70719G	-44.99	1
2462MHz	Pass	2.43591G	14.92	-15.08	1.73789G	-53.51	2.3928G	-50.75	2.4G	-54.40	2.50294G	-50.29	21.96286G	-45.11	1
802.11g_Nss1.(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	13.14	-16.86	2.13982G	-53.74	2.4G	-29.09	2.4G	-28.05	2.50014G	-48.47	21.95724G	-44.26	1
2437MHz	Pass	2.44192G	13.14	-16.86	2.11885G	-54.13	2.39696G	-35.34	2.4G	-38.28	2.50006G	-47.58	21.79429G	-43.66	1
2462MHz	Pass	2.44192G	13.14	-16.86	2.13632G	-53.56	2.39872G	-50.88	2.4G	-54.32	2.52102G	-50.12	21.88139G	-44.26	1
802.11ax HEW20_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	12.13	-17.87	2.17826G	-53.43	2.4G	-28.17	2.4G	-27.38	2.52294G	-51.06	21.86734G	-45.41	1
2437MHz	Pass	2.44192G	12.13	-17.87	2.08856G	-54.18	2.39848G	-35.50	2.4G	-36.24	2.50054G	-46.79	22.0022G	-44.59	1
2462MHz	Pass	2.44192G	12.13	-17.87	2.19574G	-53.44	2.39248G	-51.24	2.4G	-54.42	2.51422G	-50.53	21.71562G	-45.17	1

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

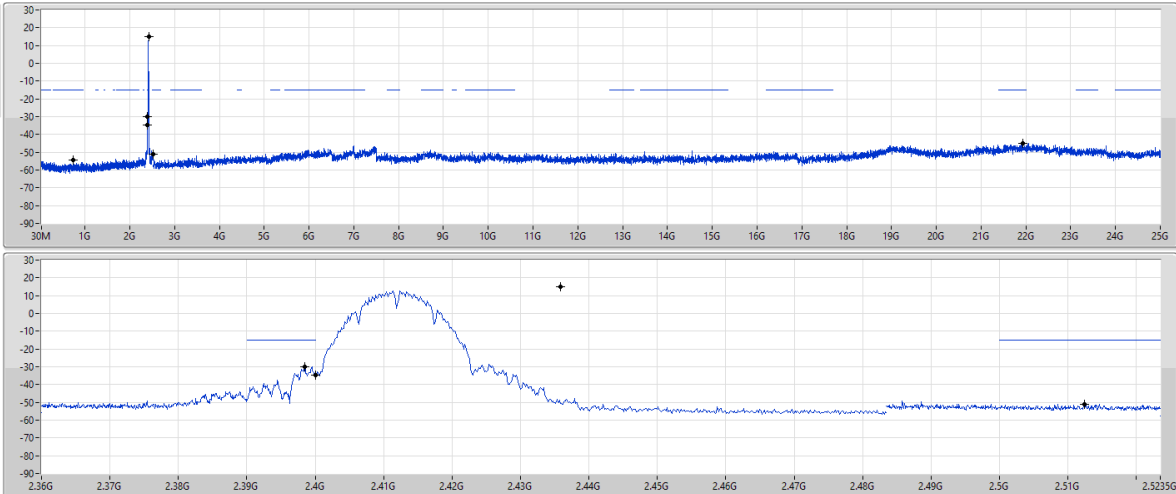
CSEndB

2412MHz

21/12/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

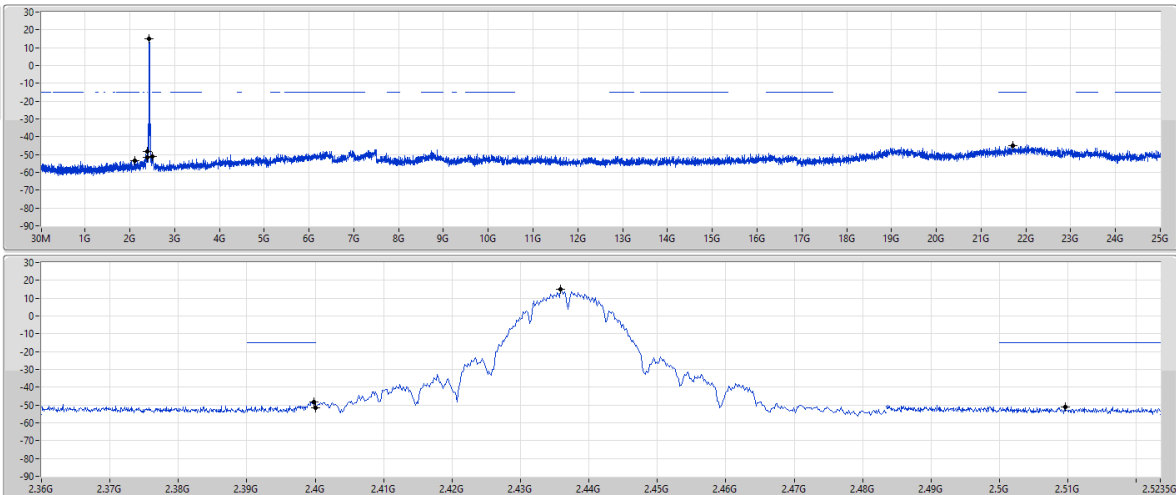
CSEndB

2437MHz

21/12/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

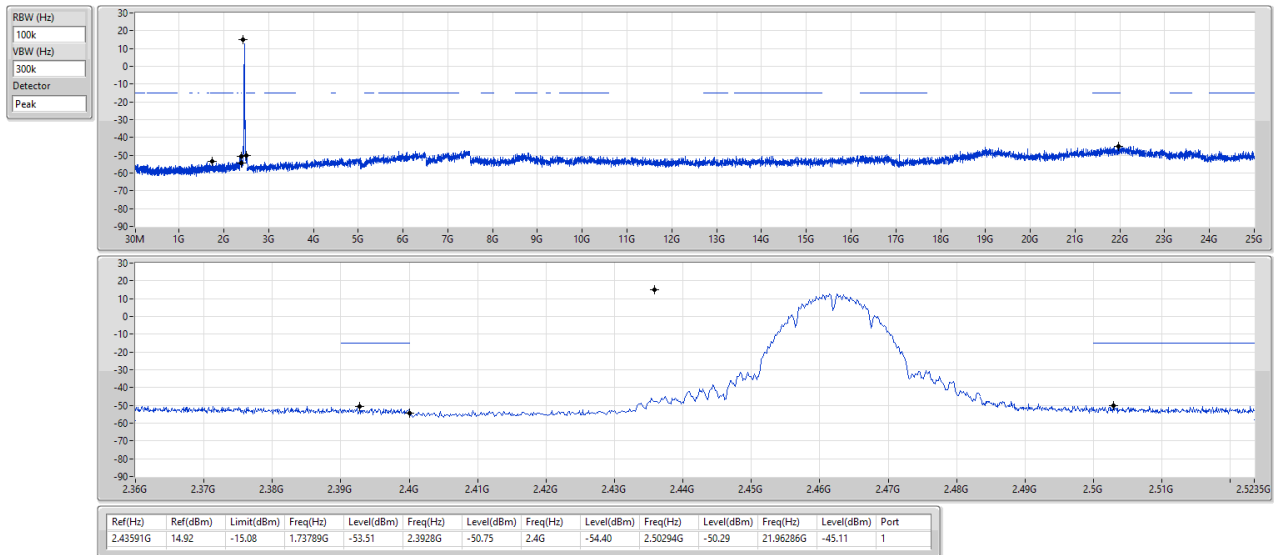
Port 1



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

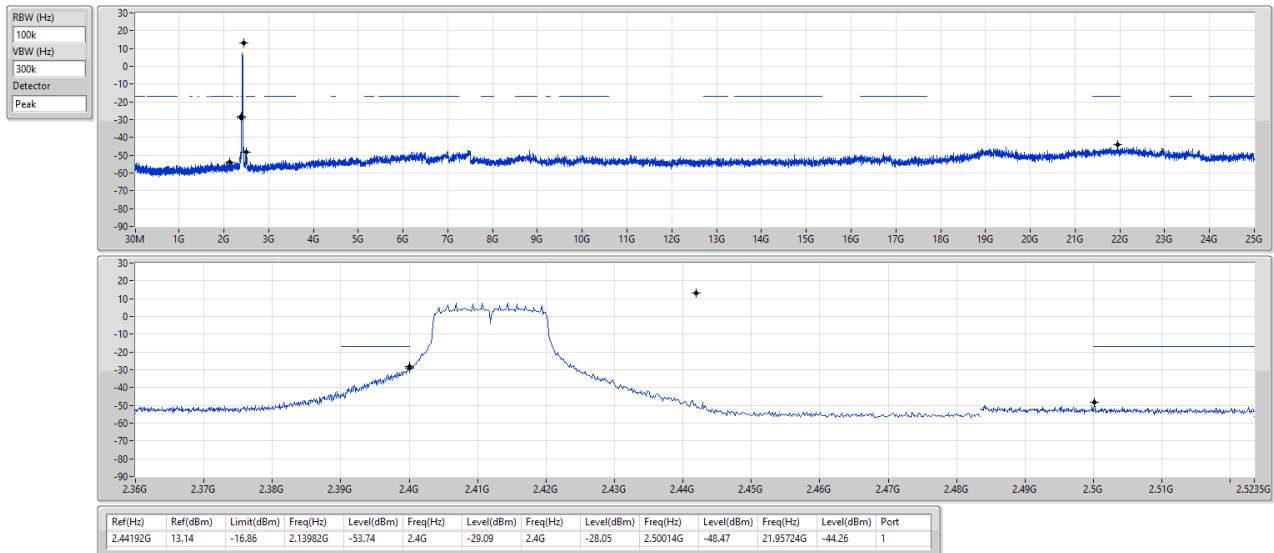
2462MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

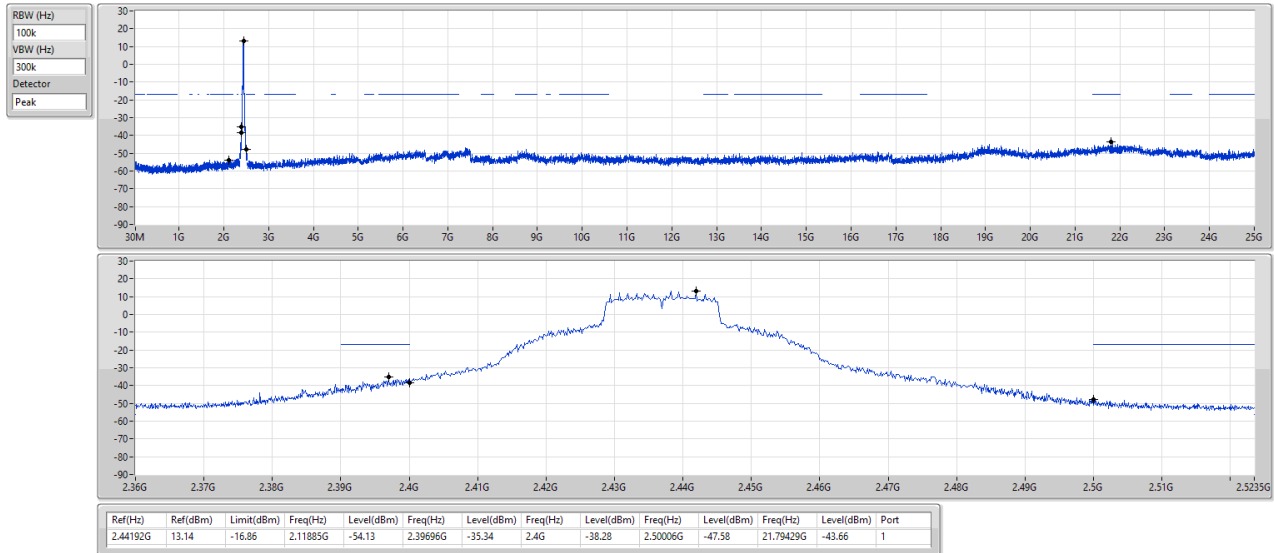
2412MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

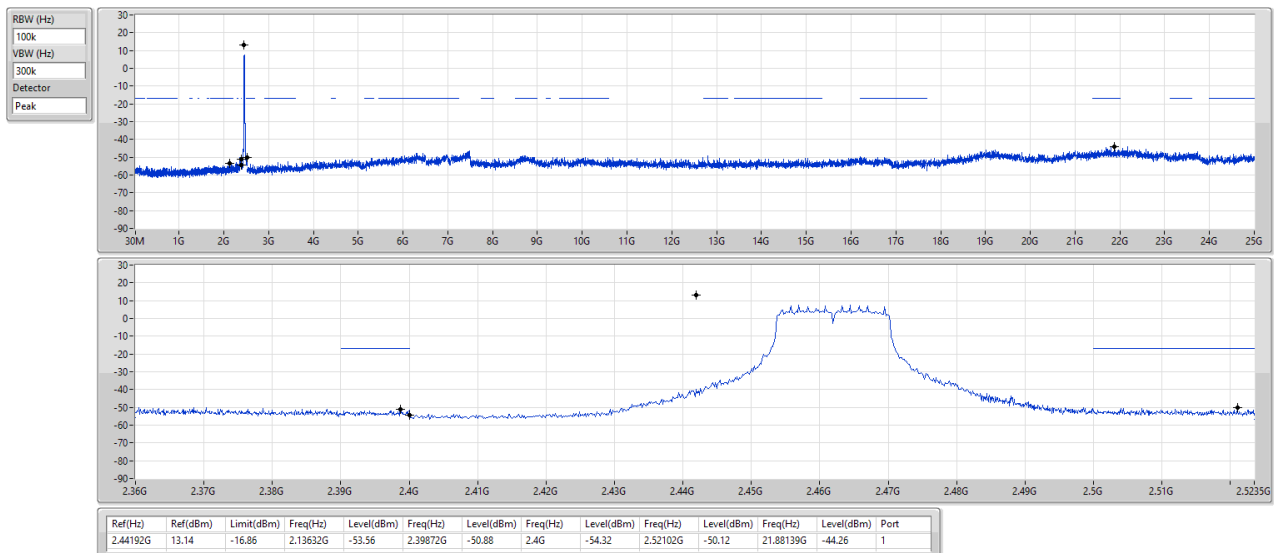
2437MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

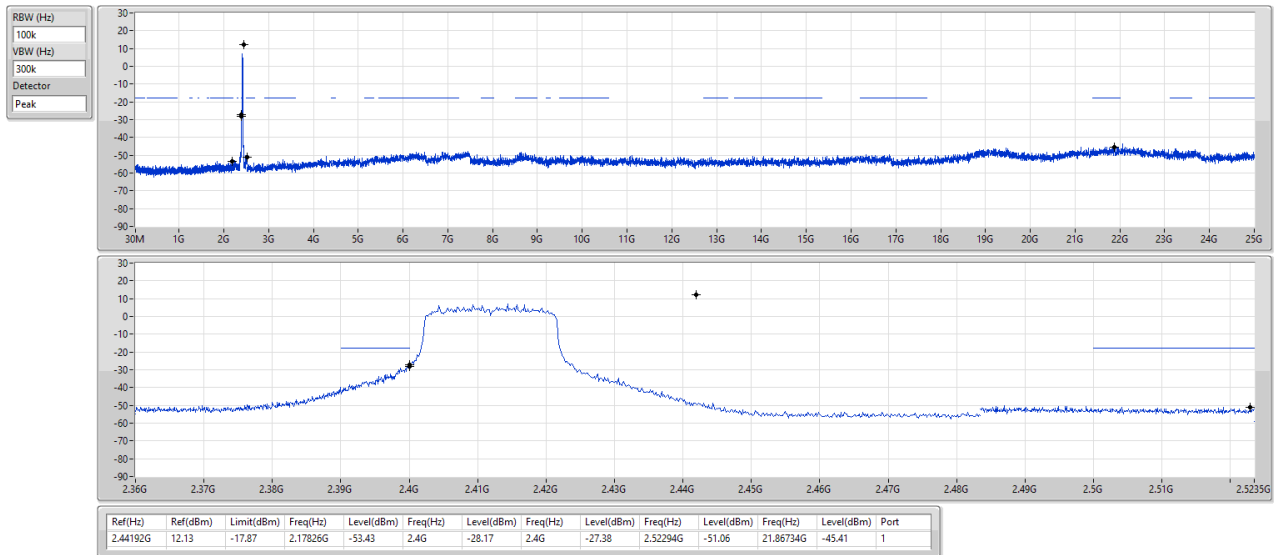
2462MHz



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

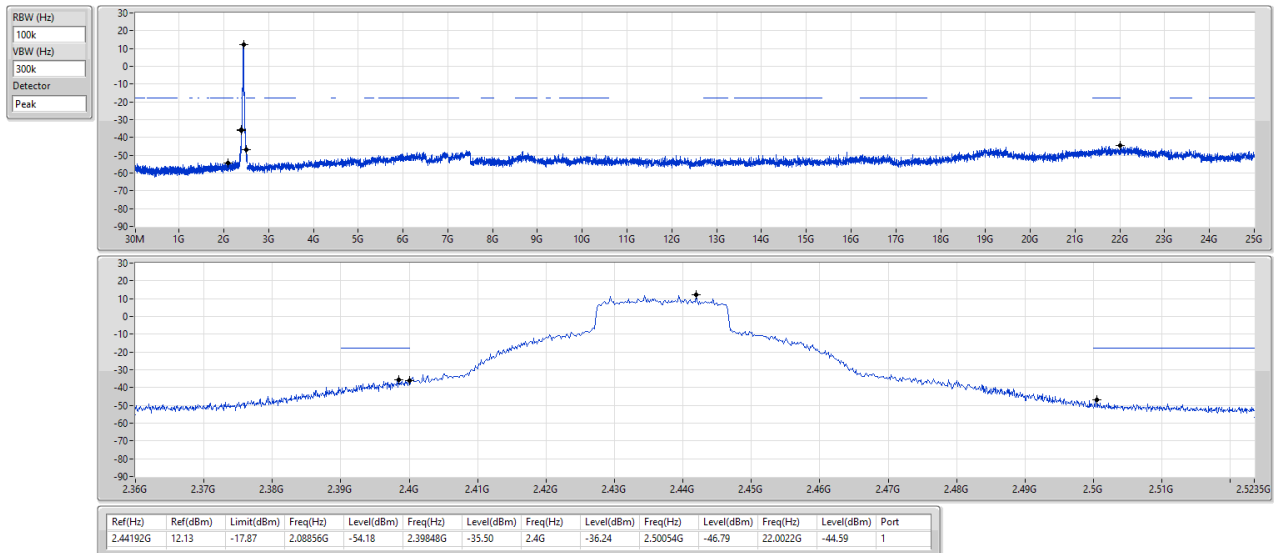
2412MHz



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

2437MHz

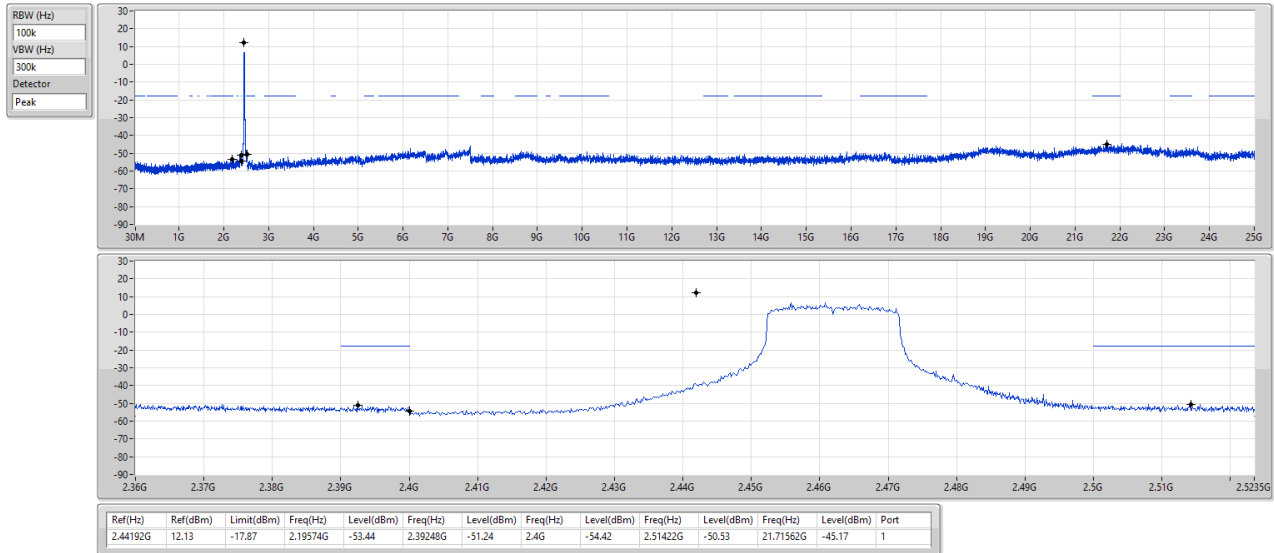


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

2462MHz

21/12/2024



**Summary**

Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1.(1Mbps)_1TX	Pass	2.4349G	12.15	-17.85	1.88934G	-59.97	2.39704G	-34.16	2.4G	-35.40	2.50038G	-57.55	7.23514G	-48.15	1
802.11b_Nss1.(1Mbps)_2TX	Pass	2.4349G	12.28	-17.72	1.85905G	-60.63	2.39904G	-34.57	2.4G	-35.86	2.50526G	-58.21	7.23233G	-47.93	1
802.11b_Nss1.(1Mbps)_4TX	Pass	2.4349G	12.27	-17.73	2.19574G	-60.82	2.39704G	-32.83	2.4G	-38.32	2.51118G	-58.09	7.23795G	-49.29	4
802.11g_Nss1.(6Mbps)_1TX	Pass	2.44392G	8.22	-21.78	1.7577G	-61.17	2.39968G	-23.73	2.4G	-22.25	2.51942G	-57.84	7.23233G	-49.87	1
802.11g_Nss1.(6Mbps)_2TX	Pass	2.44192G	11.12	-18.88	1.95808G	-60.92	2.39968G	-22.89	2.4G	-20.67	2.5095G	-57.29	7.22952G	-49.78	1
802.11g_Nss1.(6Mbps)_4TX	Pass	2.44442G	11.07	-18.93	1.98837G	-60.45	2.4G	-23.95	2.4G	-22.39	2.51006G	-57.51	21.84767G	-51.15	4
802.11be EHT20_Nss1.(MCS0)_1TX	Pass	2.4319G	10.69	-19.31	2.17011G	-60.67	2.4G	-23.22	2.4G	-20.67	2.5035G	-56.49	7.24357G	-50.16	1
802.11be EHT20_Nss1.(MCS0)_2TX	Pass	2.42939G	10.74	-19.26	2.14098G	-60.76	2.39952G	-21.15	2.4G	-21.57	2.50862G	-57.59	7.24637G	-51.26	2
802.11be EHT20_Nss1.(MCS0)_4TX	Pass	2.43073G	11.08	-18.92	2.16312G	-60.95	2.39992G	-27.39	2.4G	-26.14	2.50046G	-57.69	21.8561G	-50.98	3

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4349G	12.15	-17.85	1.88934G	-59.97	2.39704G	-34.16	2.4G	-35.40	2.50038G	-57.55	7.23514G	-48.15	1
2437MHz	Pass	2.4349G	12.15	-17.85	2.11535G	-60.70	2.4G	-50.71	2.4G	-51.47	2.50094G	-57.39	21.76619G	-51.68	1
2462MHz	Pass	2.4349G	12.15	-17.85	2.12584G	-59.32	2.3992G	-52.97	2.4G	-53.58	2.51238G	-57.16	21.98815G	-51.93	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44392G	8.22	-21.78	1.7577G	-61.17	2.39968G	-23.73	2.4G	-22.25	2.51942G	-57.84	7.23233G	-49.87	1
2437MHz	Pass	2.44392G	8.22	-21.78	1.92196G	-60.96	2.39984G	-50.36	2.4G	-51.40	2.5207G	-57.49	21.86453G	-50.44	1
2462MHz	Pass	2.44392G	8.22	-21.78	2.12234G	-60.11	2.39904G	-52.04	2.4G	-52.77	2.50406G	-57.78	21.77743G	-51.16	1
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4319G	10.69	-19.31	2.17011G	-60.67	2.4G	-23.22	2.4G	-20.67	2.5035G	-56.49	7.24357G	-50.16	1
2437MHz	Pass	2.4319G	10.69	-19.31	2.11652G	-60.41	2.39992G	-46.72	2.4G	-46.38	2.50038G	-56.75	21.74091G	-51.77	1
2462MHz	Pass	2.4319G	10.69	-19.31	1.7542G	-60.17	2.39784G	-51.93	2.4G	-52.93	2.50118G	-56.35	21.58076G	-50.83	1
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4349G	12.28	-17.72	1.85905G	-60.63	2.39904G	-34.57	2.4G	-35.86	2.50526G	-58.21	7.23233G	-47.93	1
2412MHz	Pass	2.4349G	12.28	-17.72	2.18176G	-60.63	2.39904G	-37.14	2.4G	-36.57	2.50366G	-57.50	7.23514G	-48.55	2
2437MHz	Pass	2.4349G	12.28	-17.72	1.74139G	-60.78	2.4G	-51.33	2.4G	-51.28	2.51158G	-57.69	21.769G	-51.70	1
2437MHz	Pass	2.4349G	12.28	-17.72	1.91614G	-58.80	2.4G	-50.41	2.4G	-52.20	2.52262G	-57.94	9.74689G	-51.02	2
2462MHz	Pass	2.4349G	12.28	-17.72	2.09788G	-59.87	2.39896G	-51.74	2.4G	-54.31	2.51054G	-57.80	21.56671G	-51.12	1
2462MHz	Pass	2.4349G	12.28	-17.72	2.19807G	-59.40	2.3992G	-52.99	2.4G	-54.33	2.51022G	-56.45	21.73248G	-51.36	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	11.12	-18.88	1.95808G	-60.92	2.39968G	-22.89	2.4G	-20.67	2.5095G	-57.29	7.22952G	-49.78	1
2412MHz	Pass	2.44192G	11.12	-18.88	2.17432G	-60.27	2.39984G	-22.90	2.4G	-20.83	2.51718G	-57.76	7.23233G	-49.16	2
2437MHz	Pass	2.44192G	11.12	-18.88	2.07225G	-60.14	2.39984G	-50.43	2.4G	-52.00	2.51262G	-56.51	21.95724G	-51.37	1
2437MHz	Pass	2.44192G	11.12	-18.88	1.77634G	-60.08	2.39952G	-50.73	2.4G	-53.76	2.50366G	-57.74	21.592G	-51.61	2
2462MHz	Pass	2.44192G	11.12	-18.88	2.08623G	-60.38	2.39936G	-52.92	2.4G	-53.76	2.52278G	-57.88	21.9432G	-51.14	1
2462MHz	Pass	2.44192G	11.12	-18.88	2.14914G	-60.81	2.39752G	-53.72	2.4G	-54.52	2.52158G	-57.58	21.97691G	-51.24	2
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.42939G	10.74	-19.26	1.80663G	-60.08	2.4G	-24.64	2.4G	-22.42	2.51182G	-57.93	7.23795G	-49.90	1
2412MHz	Pass	2.42939G	10.74	-19.26	2.14098G	-60.76	2.39952G	-21.15	2.4G	-21.57	2.50862G	-57.59	7.24637G	-51.26	2
2437MHz	Pass	2.42939G	10.74	-19.26	2.14098G	-60.94	2.3992G	-45.82	2.4G	-47.61	2.5035G	-57.28	22.00782G	-50.67	1
2437MHz	Pass	2.42939G	10.74	-19.26	1.76352G	-60.47	2.39856G	-50.07	2.4G	-51.47	2.51022G	-58.26	21.84205G	-50.74	2
2462MHz	Pass	2.42939G	10.74	-19.26	1.86371G	-60.38	2.39312G	-52.12	2.4G	-53.71	2.50118G	-57.69	21.62572G	-51.85	1
2462MHz	Pass	2.42939G	10.74	-19.26	1.85789G	-60.23	2.39816G	-52.79	2.4G	-55.00	2.50118G	-57.71	21.9741G	-50.93	2
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4349G	12.27	-17.73	2.17127G	-59.91	2.39704G	-35.46	2.4G	-37.05	2.52062G	-57.96	7.23233G	-48.74	1
2412MHz	Pass	2.4349G	12.27	-17.73	2.13283G	-60.53	2.398G	-37.31	2.4G	-37.54	2.51726G	-57.89	7.23514G	-47.11	2
2412MHz	Pass	2.4349G	12.27	-17.73	2.06992G	-59.15	2.39704G	-33.60	2.4G	-37.62	2.50438G	-57.79	7.23795G	-48.59	3
2412MHz	Pass	2.4349G	12.27	-17.73	2.19574G	-60.82	2.39704G	-32.83	2.4G	-38.32	2.51118G	-58.09	7.23795G	-49.29	4
2437MHz	Pass	2.4349G	12.27	-17.73	1.84857G	-60.13	2.4G	-51.59	2.4G	-52.82	2.50718G	-57.07	21.5611G	-51.03	1
2437MHz	Pass	2.4349G	12.27	-17.73	1.74139G	-60.44	2.3972G	-51.80	2.4G	-52.38	2.51502G	-57.73	21.65662G	-51.70	2
2437MHz	Pass	2.4349G	12.27	-17.73	2.14564G	-60.46	2.39752G	-50.74	2.4G	-52.09	2.51526G	-57.03	21.74653G	-51.57	3
2437MHz	Pass	2.4349G	12.27	-17.73	1.7775G	-60.74	2.4G	-52.70	2.4G	-53.93	2.50174G	-57.20	21.62853G	-51.44	4
2462MHz	Pass	2.4349G	12.27	-17.73	2.02681G	-60.26	2.3948G	-51.90	2.4G	-54.35	2.51534G	-57.69	21.58357G	-51.38	1
2462MHz	Pass	2.4349G	12.27	-17.73	2.11885G	-61.45	2.39976G	-52.61	2.4G	-55.43	2.50086G	-57.41	21.66224G	-50.92	2
2462MHz	Pass	2.4349G	12.27	-17.73	2.10137G	-60.63	2.39672G	-53.44	2.4G	-55.54	2.51526G	-57.54	21.68472G	-51.33	3
2462MHz	Pass	2.4349G	12.27	-17.73	1.82993G	-60.32	2.39904G	-54.32	2.4G	-56.32	2.50542G	-57.50	21.86734G	-52.19	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44442G	11.07	-18.93	2.08623G	-60.53	2.4G	-23.52	2.4G	-22.46	2.50478G	-57.94	21.66505G	-51.34	1
2412MHz	Pass	2.44442G	11.07	-18.93	2.15962G	-60.77	2.4G	-23.73	2.4G	-23.31	2.5043G	-57.29	21.63133G	-50.65	2
2412MHz	Pass	2.44442G	11.07	-18.93	2.14797G	-59.68	2.4G	-24.57	2.4G	-24.78	2.5127G	-57.78	7.23514G	-49.89	3
2412MHz	Pass	2.44442G	11.07	-18.93	1.98837G	-60.45	2.4G	-23.95	2.4G	-22.39	2.51006G	-57.51	21.84767G	-51.15	4
2437MHz	Pass	2.44442G	11.07	-18.93	1.9872G	-60.47	2.39912G	-49.66	2.4G	-50.12	2.51406G	-57.42	21.88981G	-51.13	1
2437MHz	Pass	2.44442G	11.07	-18.93	2.07574G	-60.22	2.39976G	-50.30	2.4G	-53.42	2.5071G	-56.76	21.70157G	-50.37	2
2437MHz	Pass	2.44442G	11.07	-18.93	1.92895G	-60.37	2.39968G	-51.18	2.4G	-53.18	2.50206G	-56.45	21.61167G	-51.22	3
2437MHz	Pass	2.44442G	11.07	-18.93	2.18758G	-60.32	2.39976G	-51.15	2.4G	-52.88	2.5039G	-57.47	21.55829G	-51.14	4
2462MHz	Pass	2.44442G	11.07	-18.93	2.08739G	-60.31	2.39712G	-53.15	2.4G	-54.28	2.5091G	-57.96	21.69314G	-50.76	1
2462MHz	Pass	2.44442G	11.07	-18.93	2.17943G	-60.98	2.39728G	-53.11	2.4G	-54.74	2.51982G	-57.54	21.68753G	-50.08	2
2462MHz	Pass	2.44442G	11.07	-18.93	2.19108G	-60.68	2.39816G	-53.40	2.4G	-56.67	2.50998G	-57.32	21.71843G	-50.46	3
2462MHz	Pass	2.44442G	11.07	-18.93	1.64702G	-60.29	2.3996G	-54.88	2.4G	-56.56	2.5143G	-57.94	21.62572G	-51.23	4
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	11.08	-18.92	2.04545G	-60.32	2.4G	-26.60	2.4G	-26.32	2.52142G	-56.78	21.64819G	-51.33	1

2412MHz	Pass	2.43073G	11.08	-18.92	1.90682G	-59.92	2.39984G	-27.04	2.4G	-27.35	2.50718G	-56.99	21.84767G	-50.95	2
2412MHz	Pass	2.43073G	11.08	-18.92	2.16312G	-60.95	2.39992G	-27.39	2.4G	-26.14	2.50046G	-57.69	21.8561G	-50.98	3
2412MHz	Pass	2.43073G	11.08	-18.92	2.16312G	-61.28	2.39992G	-26.72	2.4G	-26.18	2.51894G	-57.83	21.67629G	-50.59	4
2437MHz	Pass	2.43073G	11.08	-18.92	1.8043G	-60.29	2.39984G	-45.29	2.4G	-47.87	2.50046G	-56.97	21.74372G	-50.67	1
2437MHz	Pass	2.43073G	11.08	-18.92	64.95M	-59.43	2.39992G	-49.99	2.4G	-51.04	2.50302G	-57.26	21.90948G	-50.60	2
2437MHz	Pass	2.43073G	11.08	-18.92	1.65168G	-60.59	2.39912G	-47.20	2.4G	-50.45	2.51454G	-57.52	21.92072G	-51.48	3
2437MHz	Pass	2.43073G	11.08	-18.92	2.11419G	-60.62	2.39952G	-47.30	2.4G	-48.82	2.50798G	-56.25	21.56952G	-50.60	4
2462MHz	Pass	2.43073G	11.08	-18.92	1.78799G	-60.60	2.39288G	-54.44	2.4G	-57.32	2.51046G	-57.08	21.98815G	-50.61	1
2462MHz	Pass	2.43073G	11.08	-18.92	1.84041G	-60.19	2.39808G	-54.10	2.4G	-56.40	2.5015G	-57.66	21.95443G	-50.86	2
2462MHz	Pass	2.43073G	11.08	-18.92	1.86954G	-61.01	2.39608G	-52.62	2.4G	-54.39	2.5103G	-57.34	21.72686G	-51.18	3
2462MHz	Pass	2.43073G	11.08	-18.92	2.0606G	-60.82	2.39976G	-53.22	2.4G	-57.04	2.50038G	-56.81	21.69314G	-51.29	4

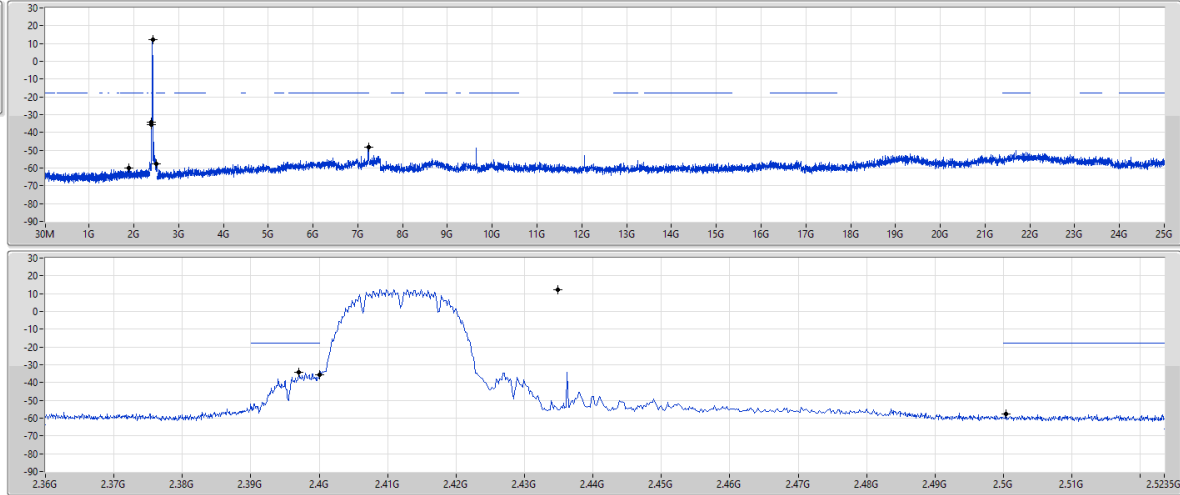
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

27/12/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2437MHz

27/12/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

