

FCC RADIO TEST REPORT

FCC ID : QXO-AP4020FX
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP4020FX
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North
Carolina United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North
Carolina United States 27560
Standard : 47 CFR FCC Part 15.407

The product was received on Jan. 20, 2025, and testing was started from Mar. 05, 2025 and completed on Jun. 20, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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	17
1.3 Testing Location Information	17
1.4 Measurement Uncertainty	18
2 Test Configuration of EUT	19
2.1 Test Channel Mode	19
2.2 The Worst Case Measurement Configuration	31
2.3 Support Equipment.....	32
2.4 Test Setup Diagram	33
3 Transmitter Test Result	39
3.1 AC Power-line Conducted Emissions	39
3.2 Emission Bandwidth	41
3.3 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	42
3.4 Peak Power Spectral Density (E.I.R.P.)	45
3.5 Unwanted Emissions.....	48
4 Test Equipment and Calibration Data	53
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of Emission Bandwidth	
Appendix C. Test Results of Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	
Appendix D. Test Results of Peak Power Spectral Density (E.I.R.P.)	
Appendix E. Test Results of Unwanted Emissions	
Appendix F. Test Results of Radiated Emission Co-location	
Appendix G. Test Photos	
Photographs of EUT v01	



History of this test report

TEL : 886-3-656-9065	Page Number : 3 of 55
FAX : 886-3-656-9085	Issued Date : Aug. 22, 2025
Report Template No.: HE1-D1-1 Ver2.5	Report Version : 01
FCC ID: QXO-AP4020FX	



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	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	PASS	-
3.4	15.407(a)	Peak Power Spectral Density (E.I.R.P.)	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-
-	15.407(d)	Contention-Based Protocol	N/A	Standard Power AP w/o test

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925 ~ 6425	a,ax (HEW20), be (EHT20)	5955 ~ 6415	1 ~ 93 [24]
6525 ~ 6875		6535 ~ 6855	117 ~ 181 [17]
5925 ~ 6425	a,ax (HEW40), be (EHT40)	5965 ~ 6405	3 ~ 91 [12]
6525 ~ 6875		6565 ~ 6845	123 ~ 179 [8]
5925 ~ 6425	a,ax (HEW80), be (EHT80)	5985 ~ 6385	7 ~ 87 [6]
6525 ~ 6875		6625 ~ 6785	135 ~ 167 [3]
5925 ~ 6425	ax (HEW160), be (EHT160)	6025 ~ 6345	15 ~ 79 [3]
6525 ~ 6875		6665	143 [1]
5925 ~ 6425	be (EHT320)	6105 ~ 6265	31~63 [2]

Non-Beamforming_Radio 3_Dipole Antenna_1T1S

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	1TX
6.525-6.875GHz	802.11a	20	1TX
5.925-6.425GHz	802.11be EHT20	20	1TX
6.525-6.875GHz	802.11be EHT20	20	1TX
5.925-6.425GHz	802.11be EHT40	40	1TX
6.525-6.875GHz	802.11be EHT40	40	1TX
5.925-6.425GHz	802.11be EHT80	80	1TX
6.525-6.875GHz	802.11be EHT80	80	1TX
5.925-6.425GHz	802.11be EHT160	160	1TX
6.525-6.875GHz	802.11be EHT160	160	1TX
5.925-6.425GHz	802.11be EHT320	320	1TX

Non-Beamforming_Radio 3_Dipole Antenna_2T1S

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	2TX
6.525-6.875GHz	802.11a	20	2TX
5.925-6.425GHz	802.11be EHT20	20	2TX
6.525-6.875GHz	802.11be EHT20	20	2TX
5.925-6.425GHz	802.11be EHT40	40	2TX
6.525-6.875GHz	802.11be EHT40	40	2TX
5.925-6.425GHz	802.11be EHT80	80	2TX
6.525-6.875GHz	802.11be EHT80	80	2TX
5.925-6.425GHz	802.11be EHT160	160	2TX
6.525-6.875GHz	802.11be EHT160	160	2TX
5.925-6.425GHz	802.11be EHT320	320	2TX

**Non-Beamforming_Radio 3_Dipole Antenna_2T2S**

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11be EHT20	20	2TX
6.525-6.875GHz	802.11be EHT20	20	2TX
5.925-6.425GHz	802.11be EHT40	40	2TX
6.525-6.875GHz	802.11be EHT40	40	2TX
5.925-6.425GHz	802.11be EHT80	80	2TX
6.525-6.875GHz	802.11be EHT80	80	2TX
5.925-6.425GHz	802.11be EHT160	160	2TX
6.525-6.875GHz	802.11be EHT160	160	2TX
5.925-6.425GHz	802.11be EHT320	320	2TX

Non-Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna_1T1S

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	1TX
6.525-6.875GHz	802.11a	20	1TX
5.925-6.425GHz	802.11be EHT20	20	1TX
6.525-6.875GHz	802.11be EHT20	20	1TX
5.925-6.425GHz	802.11be EHT40	40	1TX
6.525-6.875GHz	802.11be EHT40	40	1TX
5.925-6.425GHz	802.11be EHT80	80	1TX
6.525-6.875GHz	802.11be EHT80	80	1TX
5.925-6.425GHz	802.11be EHT160	160	1TX
6.525-6.875GHz	802.11be EHT160	160	1TX
5.925-6.425GHz	802.11be EHT320	320	1TX

Non-Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna_2T1S

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	2TX
6.525-6.875GHz	802.11a	20	2TX
5.925-6.425GHz	802.11be EHT20	20	2TX
6.525-6.875GHz	802.11be EHT20	20	2TX
5.925-6.425GHz	802.11be EHT40	40	2TX
6.525-6.875GHz	802.11be EHT40	40	2TX
5.925-6.425GHz	802.11be EHT80	80	2TX
6.525-6.875GHz	802.11be EHT80	80	2TX
5.925-6.425GHz	802.11be EHT160	160	2TX
6.525-6.875GHz	802.11be EHT160	160	2TX
5.925-6.425GHz	802.11be EHT320	320	2TX

**Non-Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna_2T2S**

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	2TX
6.525-6.875GHz	802.11a	20	2TX
5.925-6.425GHz	802.11be EHT20	20	2TX
6.525-6.875GHz	802.11be EHT20	20	2TX
5.925-6.425GHz	802.11be EHT40	40	2TX
6.525-6.875GHz	802.11be EHT40	40	2TX
5.925-6.425GHz	802.11be EHT80	80	2TX
6.525-6.875GHz	802.11be EHT80	80	2TX
5.925-6.425GHz	802.11be EHT160	160	2TX
6.525-6.875GHz	802.11be EHT160	160	2TX
5.925-6.425GHz	802.11be EHT320	320	2TX

Non-Beamforming_Radio 3_Panel Antenna_1T1S

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	1TX
6.525-6.875GHz	802.11a	20	1TX
5.925-6.425GHz	802.11be EHT20	20	1TX
6.525-6.875GHz	802.11be EHT20	20	1TX
5.925-6.425GHz	802.11be EHT40	40	1TX
6.525-6.875GHz	802.11be EHT40	40	1TX
5.925-6.425GHz	802.11be EHT80	80	1TX
6.525-6.875GHz	802.11be EHT80	80	1TX
5.925-6.425GHz	802.11be EHT160	160	1TX
6.525-6.875GHz	802.11be EHT160	160	1TX
5.925-6.425GHz	802.11be EHT320	320	1TX

Non-Beamforming_Radio 3_Panel Antenna_2T1S

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	2TX
6.525-6.875GHz	802.11a	20	2TX
5.925-6.425GHz	802.11be EHT20	20	2TX
6.525-6.875GHz	802.11be EHT20	20	2TX
5.925-6.425GHz	802.11be EHT40	40	2TX
6.525-6.875GHz	802.11be EHT40	40	2TX
5.925-6.425GHz	802.11be EHT80	80	2TX
6.525-6.875GHz	802.11be EHT80	80	2TX
5.925-6.425GHz	802.11be EHT160	160	2TX
6.525-6.875GHz	802.11be EHT160	160	2TX
5.925-6.425GHz	802.11be EHT320	320	2TX

**Non-Beamforming_Radio 3_Panel Antenna_2T2S**

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11a	20	2TX
6.525-6.875GHz	802.11a	20	2TX
5.925-6.425GHz	802.11be EHT20	20	2TX
6.525-6.875GHz	802.11be EHT20	20	2TX
5.925-6.425GHz	802.11be EHT40	40	2TX
6.525-6.875GHz	802.11be EHT40	40	2TX
5.925-6.425GHz	802.11be EHT80	80	2TX
6.525-6.875GHz	802.11be EHT80	80	2TX
5.925-6.425GHz	802.11be EHT160	160	2TX
6.525-6.875GHz	802.11be EHT160	160	2TX
5.925-6.425GHz	802.11be EHT320	320	2TX

Beamforming_Radio 3_Dipole Antenna

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11be EHT20-BF	20	2TX
6.525-6.875GHz	802.11be EHT20-BF	20	2TX
5.925-6.425GHz	802.11be EHT40-BF	40	2TX
6.525-6.875GHz	802.11be EHT40-BF	40	2TX
5.925-6.425GHz	802.11be EHT80-BF	80	2TX
6.525-6.875GHz	802.11be EHT80-BF	80	2TX
5.925-6.425GHz	802.11be EHT160-BF	160	2TX
6.525-6.875GHz	802.11be EHT160-BF	160	2TX
5.925-6.425GHz	802.11be EHT320-BF	320	2TX

Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11be EHT20-BF	20	2TX
6.525-6.875GHz	802.11be EHT20-BF	20	2TX
5.925-6.425GHz	802.11be EHT40-BF	40	2TX
6.525-6.875GHz	802.11be EHT40-BF	40	2TX
5.925-6.425GHz	802.11be EHT80-BF	80	2TX
6.525-6.875GHz	802.11be EHT80-BF	80	2TX
5.925-6.425GHz	802.11be EHT160-BF	160	2TX
6.525-6.875GHz	802.11be EHT160-BF	160	2TX
5.925-6.425GHz	802.11be EHT320-BF	320	2TX

**Beamforming_Radio 3_Panel Antenna**

Band	Mode	BWch	Nant
5.925-6.425GHz	802.11be EHT20-BF	20	2TX
6.525-6.875GHz	802.11be EHT20-BF	20	2TX
5.925-6.425GHz	802.11be EHT40-BF	40	2TX
6.525-6.875GHz	802.11be EHT40-BF	40	2TX
5.925-6.425GHz	802.11be EHT80-BF	80	2TX
6.525-6.875GHz	802.11be EHT80-BF	80	2TX
5.925-6.425GHz	802.11be EHT160-BF	160	2TX
6.525-6.875GHz	802.11be EHT160-BF	160	2TX
5.925-6.425GHz	802.11be EHT320-BF	320	2TX

Note:

- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- EHT20, EHT40, EHT80, EHT160 and EHT320 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- BWch is the nominal channel bandwidth.
- The channel defined in the IEEE Standard P802.11ax™/D6.1.
- Evaluated EHT20/EHT40/EHT80/EHT160 mode only due to the similar modulation. The power setting of HEW20/HEW40/HEW80/HEW160 mode are the same or lower than EHT20/EHT40/EHT80/EHT160.

**1.1.2 Antenna Information**

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	AWAN	AW158SM002	Dipole	Reverse SMA	2.4G+5G	Radio 1_2.4G
						Radio 2_5G
2	AWAN	AW158SM002	Dipole	Reverse SMA	2.4G+5G	Radio 1_2.4G
						Radio 2_5G
3	AWAN	AW158SM002	Dipole	Reverse SMA	5G	Radio 3_5G
4	AWAN	AW158SM002	Dipole	Reverse SMA	5G+BT	Radio 3_5G
						BLE_chain 0_E
5	AWAN	AW158SM002	Dipole	Reverse SMA	6G	Radio 3_6G
6	AWAN	AW158SM002	Dipole	Reverse SMA	6G	Radio 3_6G
7	Sercomm	6172005QWA03	PIFA	I-Pex	2.4G+5G+6G	Radio 1_Scan
8	Sercomm	6172005QWA08	PIFA	I-Pex	BT	BLE_chain 0_I
9	Sercomm	6172005QWA09	PIFA	I-Pex	BT	BLE_chain 1_H
10	Sercomm	6172005QWA10	PIFA	I-Pex	BT	BLE_chain 1_V
11	Sercomm	6172005QWA11	PIFA	I-Pex	GPS	N/A
12	Extreme	WX6PB6508R	Dual-Polarized MIMO Panel	Reverse SMA	2.4G+5G+6G+BT	Radio 1_2.4G
						Radio 2_5G
						Radio 3_5G
						Radio 3_6G
						BLE_chain 0_E
13	Signal Plus	61723018SG	Panel	Reverse SMA	2.4G+5G+6G+BT	Radio 1_2.4G
						Radio 2_5G
						Radio 3_5G
						Radio 3_6G
						BLE_chain 0_E



Ant.	Port	Gain (dBi)													
		2.4G	5G				6G				BT0-E	BT0-I	BT1-H	BT1-V	GPS
			UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8					
1	1	2.28	5.59	5.59	5.61	5.53	-	-	-	-	-	-	-	-	-
2	2	2.28	5.59	5.59	5.61	5.53	-	-	-	-	-	-	-	-	-
3	1	-	5.59	5.59	-	-	-	-	-	-	-	-	-	-	-
4	2	-	5.59	5.59	-	-	-	-	-	-	2.28	-	-	-	-
5	1	-	-	-	-	-	5.56	5.24	5.32	5.21	-	-	-	-	-
6	2	-	-	-	-	-	5.56	5.24	5.32	5.21	-	-	-	-	-
7	1	4.5	5	5	5	5	5	5	5	5	-	-	-	-	-
8	1	-	-	-	-	-	-	-	-	-	-	4.9	-	-	-
9	1	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-
10	2	-	-	-	-	-	-	-	-	-	-	-	-	3.7	-
11	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8
12-1	1	8	8	8	8	8	-	-	-	-	-	-	-	-	-
12-2	2	8	8	8	8	8	-	-	-	-	-	-	-	-	-
12-3	1	-	8	8	-	-	-	-	-	-	-	-	-	-	-
12-4	2	-	8	8	-	-	-	-	-	-	8	-	-	-	-
12-5	1	-	-	-	-	-	8	8	8	8	-	-	-	-	-
12-6	2	-	-	-	-	-	8	8	8	8	-	-	-	-	-
13-1	1	12.52	12.19	12.18	12.42	12.36	-	-	-	-	-	-	-	-	-
13-2	2	12.52	12.19	12.18	12.42	12.36	-	-	-	-	-	-	-	-	-
13-3	1	-	12.19	12.18	-	-	-	-	-	-	-	-	-	-	-
13-4	2	-	12.19	12.18	-	-	-	-	-	-	12.52	-	-	-	-
13-5	1	-	-	-	-	-	12.46	11.8	12.45	12.41	-	-	-	-	-
13-6	2	-	-	-	-	-	12.46	11.8	12.45	12.41	-	-	-	-	-

Note 1: The EUT has thirteen antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/2RX) (Radio 1)

Ant. 1 (port 1) could transmit/receive.

Ant. 12-1 (port 1) could transmit/receive.

Ant. 13-1 (port 1) could transmit/receive

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Radio 1)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

Ant. 12-1 (port 1) and Ant. 12-2 (port 2) could transmit/receive simultaneously.

Ant. 13-1 (port 1) and Ant. 13-2 (port 2) could transmit/receive simultaneously.

For b20, g20 mode (1TX/1RX) (Radio 1_Scan)

Ant. 7 (port 1) could transmit/receive.

**For 5GHz function:**

For IEEE 802.11 a/n/ac/ax/be mode (1TX/2RX) (Radio 2)

Ant. 1 (port 1) could transmit/receive.

Ant. 12-1 (port 1) could transmit/receive.

Ant. 13-1 (port 1) could transmit/receive.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/2RX) (Radio 2)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

Ant. 12-1 (port 1) and Ant. 12-2 (port 2) could transmit/receive simultaneously.

Ant. 13-1 (port 1) and Ant. 13-2 (port 2) could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (1TX/2RX) (Radio 3)

Ant. 3 (port 1) could transmit/receive.

Ant. 12-3 (port 1) could transmit/receive.

Ant. 13-3 (port 1) could transmit/receive.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/2RX) (Radio 3)

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

Ant. 12-3 (port 1) and Ant. 12-4 (port 2) could transmit/receive simultaneously.

Ant. 13-3 (port 1) and Ant. 13-4 (port 2) could transmit/receive simultaneously.

For a20, a40, a80, a160 (1TX/1RX) (Radio 1_Scan)

Ant. 7 (port 1) could transmit/receive.

For 6GHz function:

For IEEE 802.11 a/ax/be mode (1TX/2RX) (Radio 3)

Ant. 5 (port 1) could transmit/receive.

Ant. 12-5 (port 1) could transmit/receive.

Ant. 13-5 (port 1) could transmit/receive.

For IEEE 802.11 a/ax/be mode (2TX/2RX) (Radio 3)

Ant. 5 (port 1) and Ant. 6 (port 2) could transmit/receive simultaneously.

Ant. 12-5 (port 1) and Ant. 12-6 (port 2) could transmit/receive simultaneously.

Ant. 13-5 (port 1) and Ant. 13-6 (port 2) could transmit/receive simultaneously.

For 11a20, 11a40, 11a80, 11a160 (1TX/1RX) (Radio 1_Scan)

Ant. 7 (port 1) could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX) (Chain 0)

Ant. 4 (port 2) could transmit/receive.

Ant. 8 (port 1) could transmit/receive.

Ant. 12-4 (port 2) could transmit/receive.

Ant. 13-4 (port 2) could transmit/receive.

For IEEE 802.15.1 Bluetooth mode (1TX/2RX) (Chain 1)

Ant. 9 (port 1) or Ant. 10 (port 2) could transmit/receive

Support diversity function and pre-tested on each single chain, the worst case was Ant. 9 (port 1) and it was recorded in this test report.

Note 2: Directional gain information

	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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / PoE		
EUT Function	☐	Indoor Access Point	☐ Dual Client
	☐	Indoor Client	☐ Fixed Client
	☐	Subordinate	☐ Standard Client
	☐	Very Low Power	☒ Standard Power Access Point
			☒ Indoor use
			☐ Outdoor use
Beamforming Function	☒	With beamforming	☐ Without beamforming
Resource Unit	☒	Full RU	☐ Partial RU
	☐	MRU (static preamble puncturing)	☐ MRU (dynamic preamble puncturing)
Channel Puncturing	☐	Support	☒ Not support
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:		...
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

Note: The above information was declared by manufacturer.

**1.1.4 Mode Test Duty Cycle****Non-Beamforming_Radio 3_Dipole Antenna_1T1S**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_1TX	0.992	0.03	5.08m	10
802.11be EHT20_Nss1,(MCS0)_1TX	0.989	0.05	2.869m	10
802.11be EHT40_Nss1,(MCS0)_1TX	0.989	0.05	2.853m	10
802.11be EHT80_Nss1,(MCS0)_1TX	0.989	0.05	2.847m	10
802.11be EHT160_Nss1,(MCS0)_1TX	0.982	0.08	1.913m	10
802.11be EHT320_Nss1,(MCS0)_1TX	0.981	0.08	1.855m	10

Non-Beamforming_Radio 3_Dipole Antenna_2T1S

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_2TX	0.992	0.03	5.08m	10
802.11be EHT20_Nss1,(MCS0)_2TX	0.986	0.06	2.865m	10
802.11be EHT40_Nss1,(MCS0)_2TX	0.987	0.06	2.848m	10
802.11be EHT80_Nss1,(MCS0)_2TX	0.987	0.06	2.842m	10
802.11be EHT160_Nss1,(MCS0)_2TX	0.981	0.08	1.908m	10
802.11be EHT320_Nss1,(MCS0)_2TX	0.981	0.08	1.855m	10

Non-Beamforming_Radio 3_Dipole Antenna_2T2S

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss2,(MCS0)_2TX	0.99	0.04	2.851m	10
802.11be EHT40_Nss2,(MCS0)_2TX	0.99	0.04	2.845m	10
802.11be EHT80_Nss2,(MCS0)_2TX	0.983	0.07	1.685m	10
802.11be EHT160_Nss2,(MCS0)_2TX	0.983	0.07	1.685m	10
802.11be EHT320_Nss2,(MCS0)_2TX	0.983	0.07	1.689m	10

Non-Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna_1T1S

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_1TX	0.992	0.03	5.08m	10
802.11be EHT20_Nss1,(MCS0)_1TX	0.986	0.06	2.865m	10
802.11be EHT40_Nss1,(MCS0)_1TX	0.987	0.06	2.848m	10
802.11be EHT80_Nss1,(MCS0)_1TX	0.99	0.04	2.842m	10
802.11be EHT160_Nss1,(MCS0)_1TX	0.981	0.08	1.908m	10
802.11be EHT320_Nss1,(MCS0)_1TX	0.988	0.05	3.406m	10

**Non-Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna_2T1S**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss 1,(6D)	0.993	0.03	5.084m	10Hz (DC>=0.98)
802.11be EHT20_Nss 1,(M0)	0.989	0.05	2.869m	10Hz (DC>=0.98)
802.11be EHT40_Nss 1,(M0)	0.989	0.05	2.853m	10Hz (DC>=0.98)
802.11be EHT80_Nss 1,(M0)	0.989	0.05	2.847m	10Hz (DC>=0.98)
802.11be EHT160_Nss 1,(M0)	0.982	0.08	1.913m	10Hz (DC>=0.98)
802.11be EHT320_Nss 1,(M0)	0.989	0.05	3.409m	10Hz (DC>=0.98)

Non-Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna_2T2S

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss2,(MCS0)_2TX	0.989	0.05	2.856m	10Hz (DC>=0.98)
802.11be EHT40_Nss2,(MCS0)_2TX	0.989	0.05	2.85m	10Hz (DC>=0.98)
802.11be EHT80_Nss2,(MCS0)_2TX	0.982	0.08	1.691m	10Hz (DC>=0.98)
802.11be EHT160_Nss2,(MCS0)_2TX	0.982	0.08	1.691m	10Hz (DC>=0.98)
802.11be EHT320_Nss2,(MCS0)_2TX	0.982	0.08	1.694m	10Hz (DC>=0.98)

Non-Beamforming_Radio 3_Panel Antenna_1T1S

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_1TX	0.992	0.03	5.08m	10
802.11be EHT20_Nss1,(MCS0)_1TX	0.986	0.06	2.865m	10
802.11be EHT40_Nss1,(MCS0)_1TX	0.987	0.06	2.848m	10
802.11be EHT80_Nss1,(MCS0)_1TX	0.99	0.04	2.842m	10
802.11be EHT160_Nss1,(MCS0)_1TX	0.981	0.08	1.908m	10
802.11be EHT320_Nss1,(MCS0)_1TX	0.988	0.05	3.406m	10

Non-Beamforming_Radio 3_Panel Antenna_2T1S

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss 1,(6D)	0.993	0.03	5.084m	10Hz (DC>=0.98)
802.11be EHT20_Nss 1,(M0)	0.989	0.05	2.869m	10Hz (DC>=0.98)
802.11be EHT40_Nss 1,(M0)	0.989	0.05	2.853m	10Hz (DC>=0.98)
802.11be EHT80_Nss 1,(M0)	0.989	0.05	2.847m	10Hz (DC>=0.98)
802.11be EHT160_Nss 1,(M0)	0.982	0.08	1.913m	10Hz (DC>=0.98)
802.11be EHT320_Nss 1,(M0)	0.989	0.05	3.409m	10Hz (DC>=0.98)

**Non-Beamforming_Radio 3_Panel Antenna_2T2S**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss2,(MCS0)_2TX	0.989	0.05	2.856m	10Hz (DC>=0.98)
802.11be EHT40_Nss2,(MCS0)_2TX	0.989	0.05	2.85m	10Hz (DC>=0.98)
802.11be EHT80_Nss2,(MCS0)_2TX	0.982	0.08	1.691m	10Hz (DC>=0.98)
802.11be EHT160_Nss2,(MCS0)_2TX	0.982	0.08	1.691m	10Hz (DC>=0.98)
802.11be EHT320_Nss2,(MCS0)_2TX	0.982	0.08	1.694m	10Hz (DC>=0.98)

Beamforming_Radio 3_Dipole Antenna

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss1,(MCS0)_2TX	0.965	0.15	4.668m	300
802.11be EHT40-BF_Nss1,(MCS0)_2TX	0.946	0.24	4.665m	300
802.11be EHT80-BF_Nss1,(MCS0)_2TX	0.957	0.19	5.192m	200
802.11be EHT160-BF_Nss1,(MCS0)_2TX	0.959	0.18	5.192m	200
802.11be EHT320-BF_Nss1,(MCS0)_2TX	0.943	0.25	5.378m	200

Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss1,(MCS0)_2TX	0.978	0.1	4.67m	300
802.11be EHT40-BF_Nss1,(MCS0)_2TX	0.966	0.15	4.666m	300
802.11be EHT80-BF_Nss1,(MCS0)_2TX	0.96	0.18	5.192m	200
802.11be EHT160-BF_Nss1,(MCS0)_2TX	0.898	0.47	5.192m	200
802.11be EHT320-BF_Nss1,(MCS0)_2TX	0.885	0.53	5.379m	200

Beamforming_Radio 3_Panel Antenna

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss1,(MCS0)_2TX	0.978	0.1	4.67m	300
802.11be EHT40-BF_Nss1,(MCS0)_2TX	0.966	0.15	4.666m	300
802.11be EHT80-BF_Nss1,(MCS0)_2TX	0.96	0.18	5.192m	200
802.11be EHT160-BF_Nss1,(MCS0)_2TX	0.898	0.47	5.192m	200
802.11be EHT320-BF_Nss1,(MCS0)_2TX	0.885	0.53	5.379m	200



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
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01

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

- ♦ KDB 987594 D01 v03r01
- ♦ KDB 987594 D02 v03
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 412172 D01 v01r01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Lego Lin	22.5~23.2°C / 52~64%	17/Jun/2025
Radiated (Co-location)	03CH02-HY	Daniel Lin	21.5~23.4°C / 55~63%	18/Jun/2025~20/Jun/2025
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Johnny Yu	21.4~22.3°C / 52~56%	14/Mar/2025~09/May/2025
Radiated (Non-Beamforming_ Other Antenna)	03CH24-HY	Jack Tang	18.6~21.1°C / 54~63%	05/Mar/2025~16/Mar/2025
Radiated (Non-Beamforming_ Panel Antenna)	03CH24-HY	Jack Tang	18.6~21.1°C / 55~61%	11/Mar/2025~07/May/2025
Radiated (Beamforming_ Other Antenna)	03CH24-HY	Jack Tang	19.2~21.1°C / 55~63%	05/Mar/2025~17/Mar/2025
Radiated (Beamforming_ Panel Antenna)	03CH24-HY	Jack Tang	18.6~21.1°C / 52~53%	03/May/2025~05/May/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
AC Power-line Conducted Emissions	3.44 dB	Confidence levels of 95%
Emission Bandwidth	0.05 MHz	Confidence levels of 95%
Maximum Equivalent Isotopically Radiated Power (E.I.R.P.)	1.48 dB	Confidence levels of 95%
Peak Power Spectral Density (E.I.R.P.)	1.48 dB	Confidence levels of 95%
Contention-Based Protocol	0.94 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	accessMTool_REL_3_3_0_4
------------------------------	-------------------------

Non-Beamforming_Radio 3_Dipole Antenna_1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT20_Nss1,(MCS0)_1TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40_Nss1,(MCS0)_1TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80_Nss1,(MCS0)_1TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160_Nss1,(MCS0)_1TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320_Nss1,(MCS0)_1TX	-
6105MHz	80
6265MHz	80

**Non-Beamforming_Radio 3_Dipole Antenna_2T1S**

Mode	Radiated Setting
802.11a_Nss1,(6Mbps)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT20_Nss1,(MCS0)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40_Nss1,(MCS0)_2TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80_Nss1,(MCS0)_2TX	-
5985MHz	78
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160_Nss1,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320_Nss1,(MCS0)_2TX	-
6105MHz	80
6265MHz	80

**Non-Beamforming_Radio 3_Dipole Antenna_2T2S**

Mode	Radiated Setting
802.11be EHT20_Nss2,(MCS0)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40_Nss2,(MCS0)_2TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80_Nss2,(MCS0)_2TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160_Nss2,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320_Nss2,(MCS0)_2TX	-
6105MHz	80
6265MHz	80

**Non-Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna_1T1S**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT20_Nss1,(MCS0)_1TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40_Nss1,(MCS0)_1TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80_Nss1,(MCS0)_1TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160_Nss1,(MCS0)_1TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320_Nss1,(MCS0)_1TX	-
6105MHz	80
6265MHz	80

**Non-Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna_2T1S**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT20_Nss1,(MCS0)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40_Nss1,(MCS0)_2TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80_Nss1,(MCS0)_2TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160_Nss1,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320_Nss1,(MCS0)_2TX	-
6105MHz	80
6265MHz	80

**Non-Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna_2T2S**

Mode	Power setting
802.11be EHT20_Nss2,(MCS0)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40_Nss2,(MCS0)_2TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80_Nss2,(MCS0)_2TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160_Nss2,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320_Nss2,(MCS0)_2TX	-
6105MHz	80
6265MHz	80

**Non-Beamforming_Radio 3_Panel Antenna_1T1S**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT20_Nss1,(MCS0)_1TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40_Nss1,(MCS0)_1TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80_Nss1,(MCS0)_1TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160_Nss1,(MCS0)_1TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320_Nss1,(MCS0)_1TX	-
6105MHz	80
6265MHz	80

**Non-Beamforming_Radio 3_Panel Antenna_2T1S**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT20_Nss1,(MCS0)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40_Nss1,(MCS0)_2TX	-
5965MHz	79
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80_Nss1,(MCS0)_2TX	-
5985MHz	78
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160_Nss1,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320_Nss1,(MCS0)_2TX	-
6105MHz	80
6265MHz	80

**Non-Beamforming_Radio 3_Panel Antenna_2T2S**

Mode	Power Setting
802.11be EHT20_Nss2,(MCS0)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40_Nss2,(MCS0)_2TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80_Nss2,(MCS0)_2TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160_Nss2,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320_Nss2,(MCS0)_2TX	-
6105MHz	80
6265MHz	80



Test Software Version	PuTTY Release 0.62
------------------------------	--------------------

Beamforming_Radio 3 Dipole Antenna

Mode	Power Setting
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-
6105MHz	80
6265MHz	80

**Beamforming_Radio 3_Dual-Polarized MIMO Panel Antenna**

Mode	Power Setting
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-
6105MHz	80
6265MHz	80

**Beamforming_Radio 3_Panel Antenna**

Mode	Radiated Setting
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-
5955MHz	80
6195MHz	80
6415MHz	80
6535MHz	80
6695MHz	80
6855MHz	80
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-
5965MHz	80
6205MHz	80
6405MHz	80
6565MHz	80
6685MHz	80
6845MHz	80
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-
5985MHz	80
6225MHz	80
6385MHz	80
6625MHz	80
6705MHz	80
6785MHz	80
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-
6025MHz	80
6185MHz	80
6345MHz	80
6665MHz	80
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-
6105MHz	80
6265MHz	80

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	CTX/CRX
1	Adapter Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Contention Based Protocol Frequency Stability
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Peak Power Spectral Density (E.I.R.P.) Unwanted Emissions		
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/CRX		
1	Adapter Mode ; Radio 3_Dipole Antenna		
2	Adapter Mode ; Radio 3_Dual-Polarized MIMO Panel Antenna		
3	Adapter Mode ; Radio 3_Panel Antenna		
Operating Mode > 1GHz	CTX/CRX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G+BT(chain 0)
2	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G+BT(chain 0)
3	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G+BT(chain 1)
4	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G+BT(chain 1)
5	R1:2.4G+R2:5G Full+R3:6G Full+R1:Scan 2.4G+R1:Scan 5G+BT-E(chain 0)
6	R1:2.4G+R2:5G High(Band3/4)+R3:5G Low(Band1/2)+R1:Scan 2.4G+R1:Scan 5G+BT-E(chain 0)
Refer to Sporton Test Report No.: FA462705-14 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

Reminder: Regarding to more detail and other information, please refer to user manual.

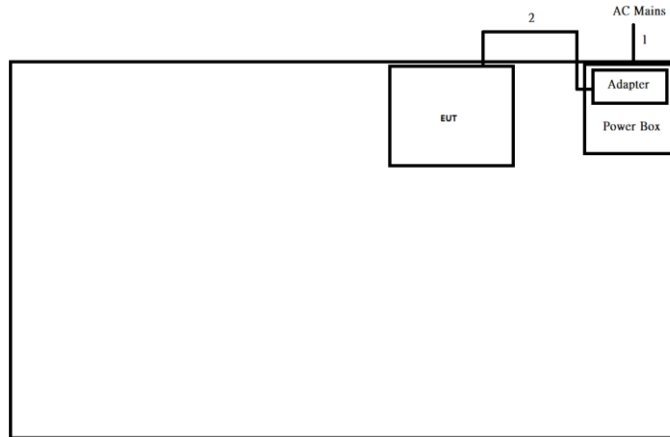
2.3 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	Powertron	PA1045-120HIB300	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	PoE	PHIHONG	POE60U-1BT-X	-	Provided by Customer

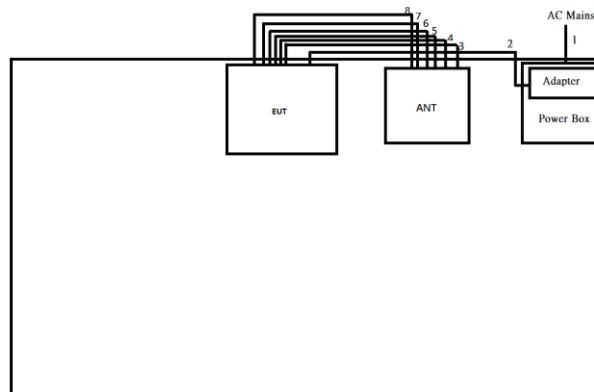
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (Dipole Antenna)

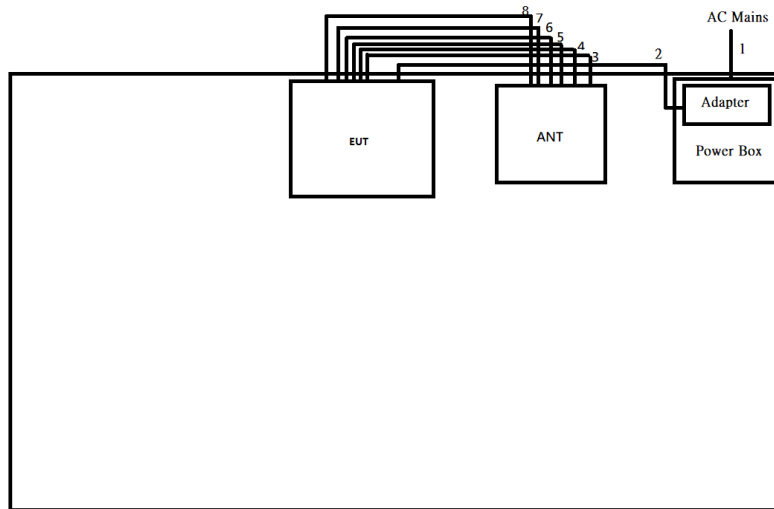


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

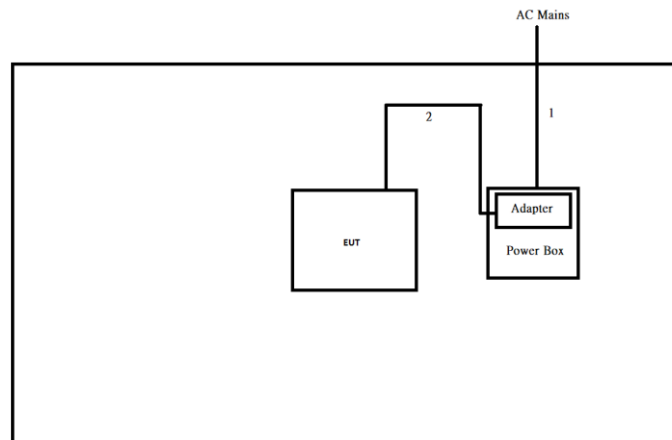
Test Setup Diagram – AC Line Conducted Emission Test (Dual-Polarized MIMO Panel Antenna)



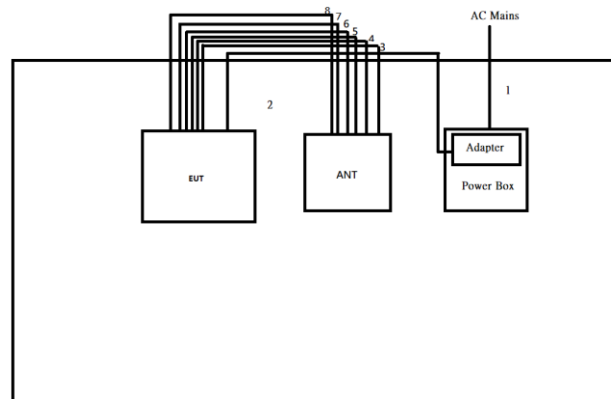
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RF Cable	No	1.0	-
4	RF Cable	No	1.0	-
5	RF Cable	No	1.0	-
6	RF Cable	No	1.0	-
7	RF Cable	No	1.0	-
8	RF Cable	No	1.0	-

Test Setup Diagram – AC Line Conducted Emission Test (Panel Antenna)


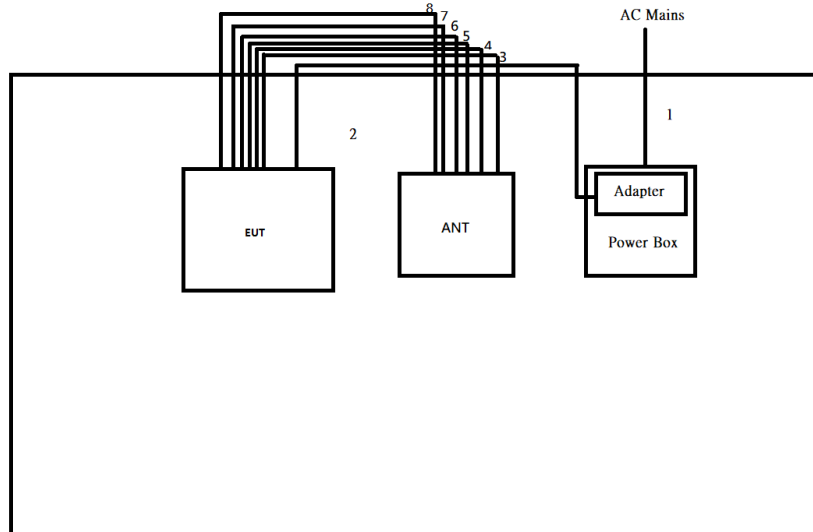
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RF Cable	No	1.0	-
4	RF Cable	No	1.0	-
5	RF Cable	No	1.0	-
6	RF Cable	No	1.0	-
7	RF Cable	No	1.0	-
8	RF Cable	No	1.0	-

Test Setup Diagram – Radiated Test (Non-Beamforming_Dipole Antenna)


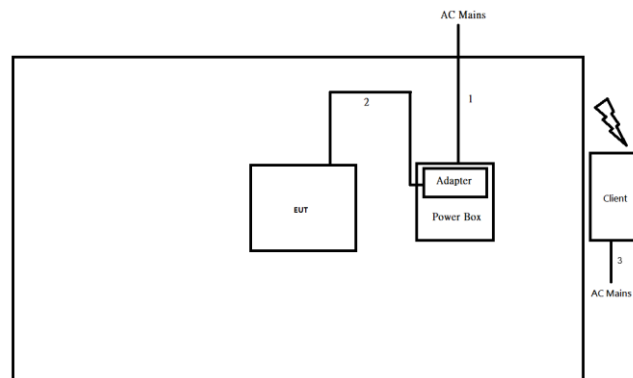
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

Test Setup Diagram – Radiated Test (Non-Beamforming_Dual-Polarized MIMO Panel Antenna)


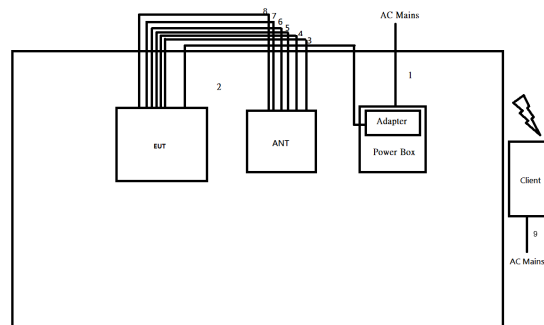
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RF Cable	No	1.0	-
4	RF Cable	No	1.0	-
5	RF Cable	No	1.0	-
6	RF Cable	No	1.0	-
7	RF Cable	No	1.0	-
8	RF Cable	No	1.0	-

Test Setup Diagram – Radiated Test (Non-Beamforming_Panel Antenna)


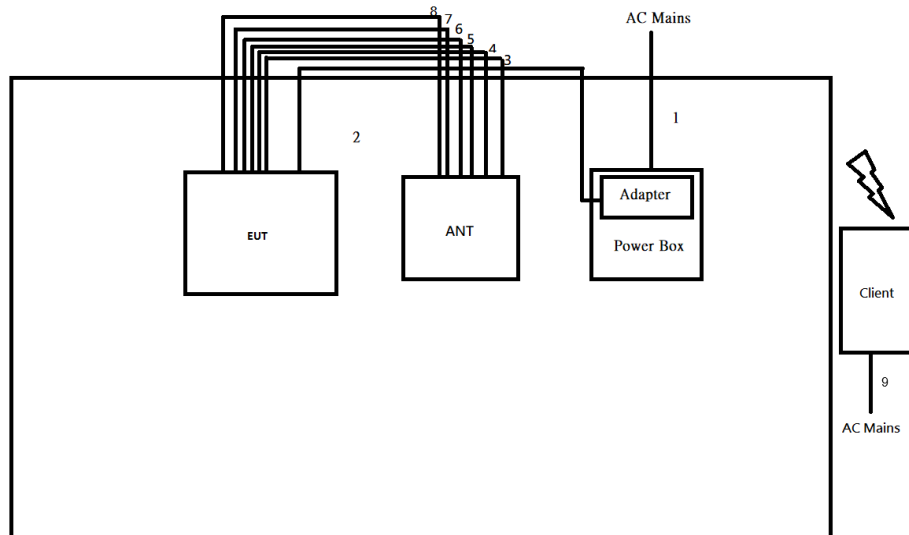
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RF Cable	No	1.0	-
4	RF Cable	No	1.0	-
5	RF Cable	No	1.0	-
6	RF Cable	No	1.0	-
7	RF Cable	No	1.0	-
8	RF Cable	No	1.0	-

Test Setup Diagram – Radiated Test (Beamforming_Dipole Antenna)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	AC Power Cable	No	1.8	-

Test Setup Diagram – Radiated Test (Beamforming_Dual-Polarized MIMO Panel Antenna)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RF Cable	No	1.0	-
4	RF Cable	No	1.0	-
5	RF Cable	No	1.0	-
6	RF Cable	No	1.0	-
7	RF Cable	No	1.0	-
8	RF Cable	No	1.0	-
9	AC Power Cable	No	1.8	-

Test Setup Diagram – Radiated Test (Beamforming_Panel Antenna)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RF Cable	No	1.0	-
4	RF Cable	No	1.0	-
5	RF Cable	No	1.0	-
6	RF Cable	No	1.0	-
7	RF Cable	No	1.0	-
8	RF Cable	No	1.0	-
9	AC Power Cable	No	1.8	



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

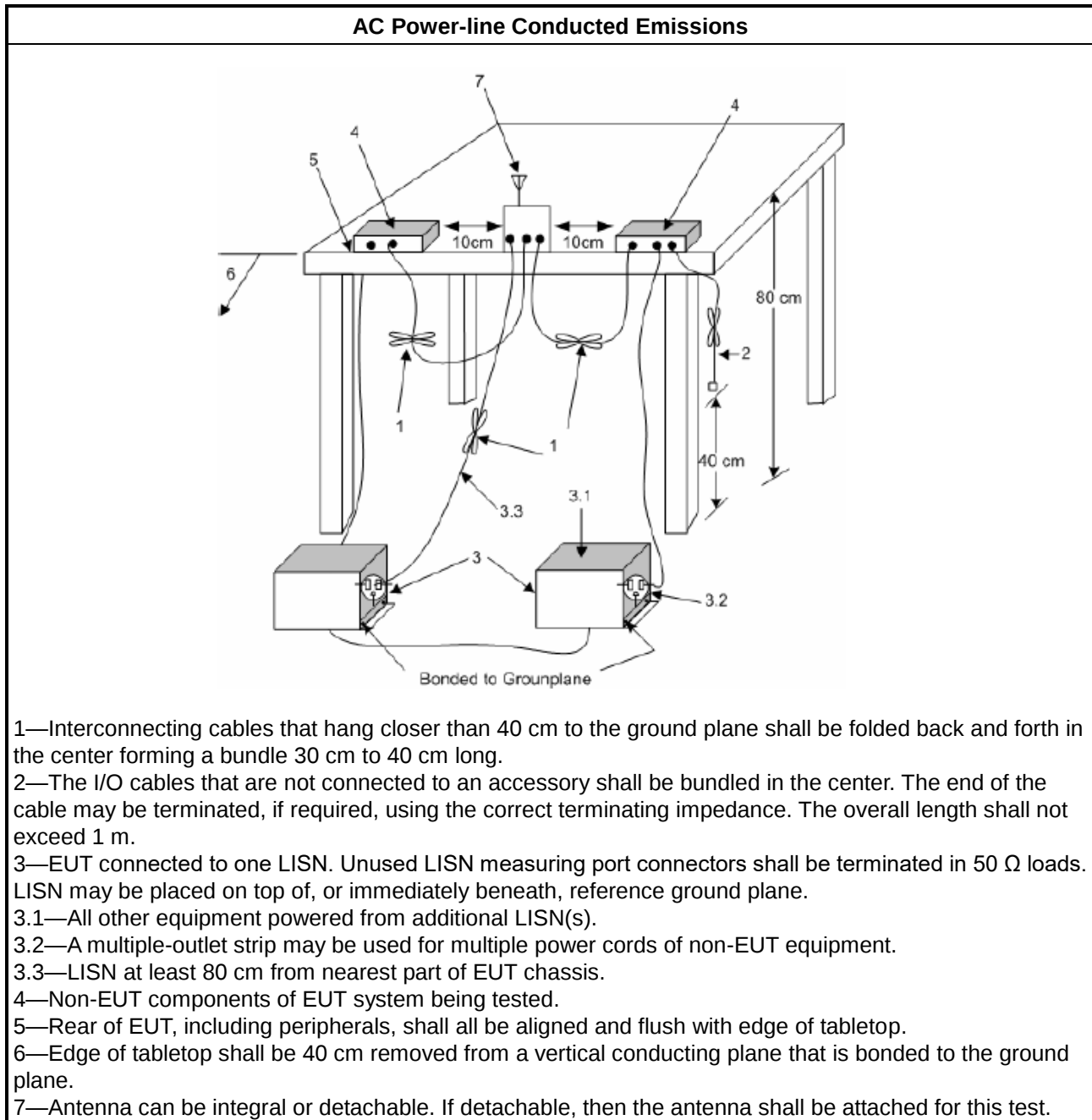
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5925-6425 GHz band, N/A
☐	For the 6425-6525 GHz band, N/A
☒	For the 6525-6875 GHz band, N/A
☐	For the 6875-7125 GHz band, N/A

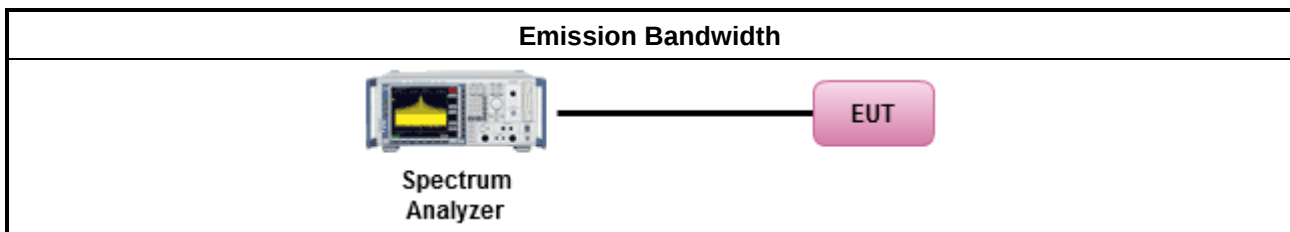
3.2.2 Measuring Instruments

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 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)

3.3.1 Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit

Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) Limit	
UNII Devices	
☒ For the 5.925 ~ 6.425 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of a standard power access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☐ For the 6.425 ~ 6.525 GHz band:	
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☒ For the 6.525 ~ 6.875 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of a standard power access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.
☐ For the 6.875 ~ 7.125 GHz band:	
	■ For indoor access point : e.i.r.p < 30 dBm.
	■ For client device control of an indoor access point : e.i.r.p < 24 dBm.

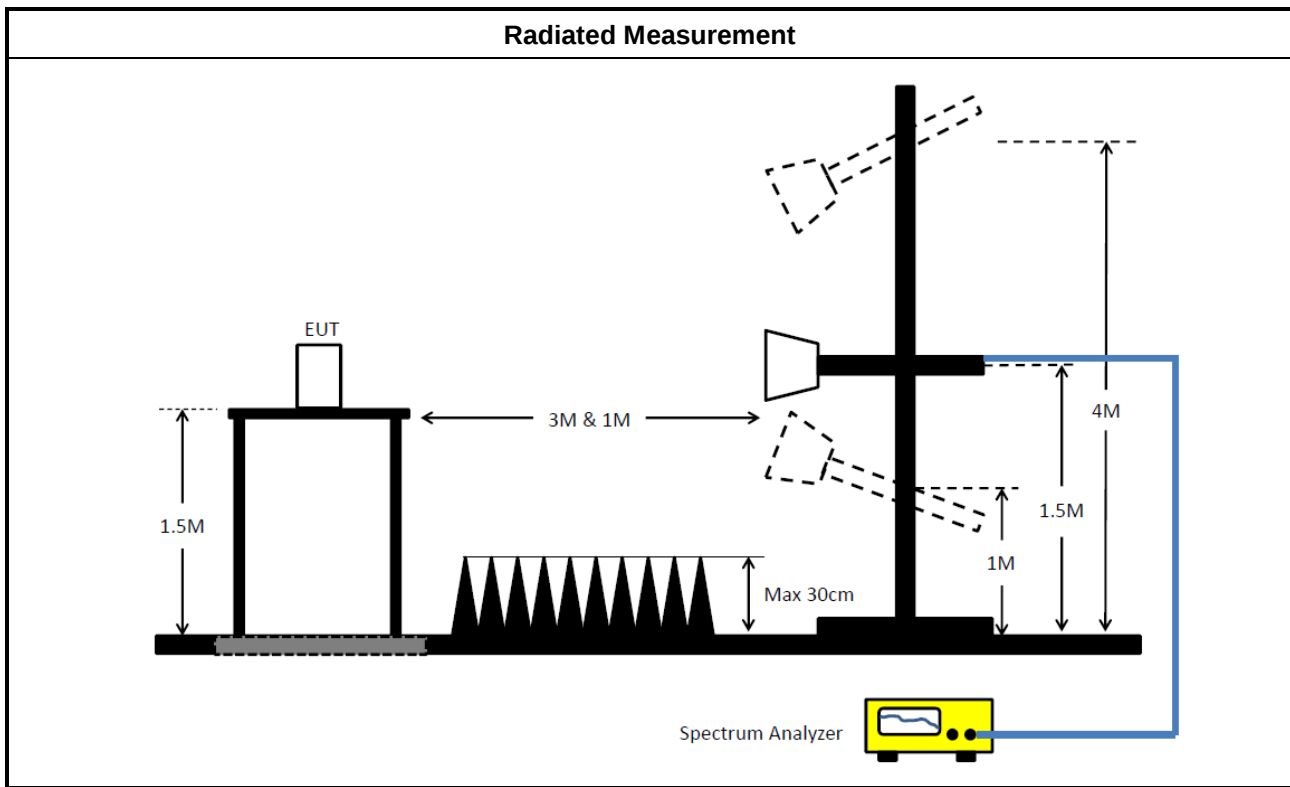
3.3.2 Measuring Instruments

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

**3.3.3 Test Procedures**

Test Method	
▪ Maximum Output Power Setting	
☐	Duty cycle $\geq 98\%$
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Duty cycle $< 98\%$
☒	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
☐	Refer as FCC KDB 789033, clause E Method PM-G (using an 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]) $EIRP_{total} = P_{total} + DG$
☒ For radiated measurement.	
☐	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
☐	▪ Refer as FCC KDB 789033, clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
☐	▪ Refer as KDB 412172, clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Equivalent Isotropically Radiated Power (E.I.R.P)

Refer as Appendix C



3.4 Peak Power Spectral Density (E.I.R.P.)

3.4.1 Peak Power Spectral Density (E.I.R.P.) Limit

Peak Power Spectral Density (E.I.R.P.) Limit	
UNII Devices	
☒ For the 5.925 ~ 6.425 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☐ For the 6.425 ~ 6.525 GHz band:	
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☒ For the 6.525 ~ 6.875 GHz band:	
	■ For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.
☐ For the 6.875 ~ 7.125 GHz band:	
	■ For indoor access point : e.i.r.p PSD < 5 dBm/MHz.
	■ For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.

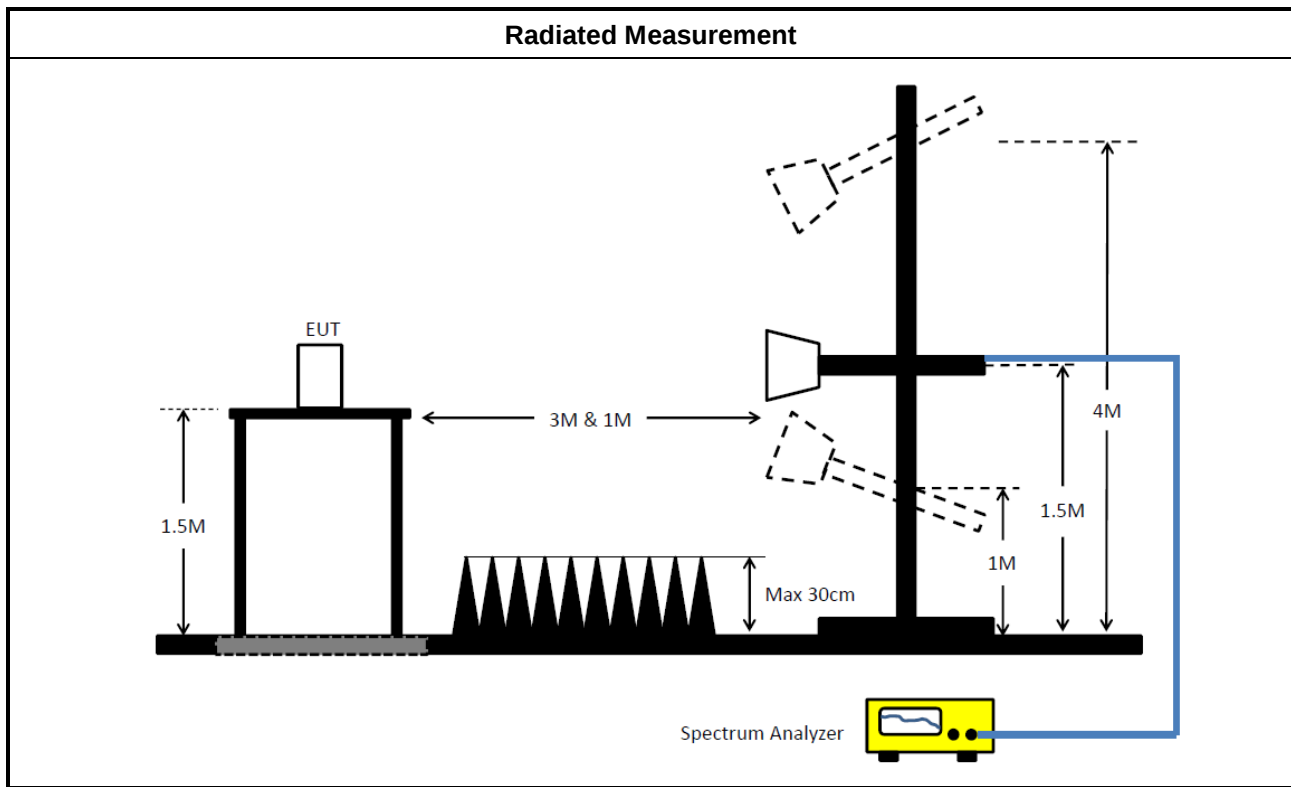
3.4.2 Measuring Instruments

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 shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
☒	Refer as FCC KDB 789033, clause E Method SA-2. (spectral trace averaging)
☒	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☐ 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.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	
☒ For radiated measurement.	
Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	
Refer as KDB 789033, clause II A.1.F "Antenna-port Conducted versus Radiated Testing"	
Refer as KDB 412172, clause 2.2 for EIRP calculation.	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density (E.I.R.P.)

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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

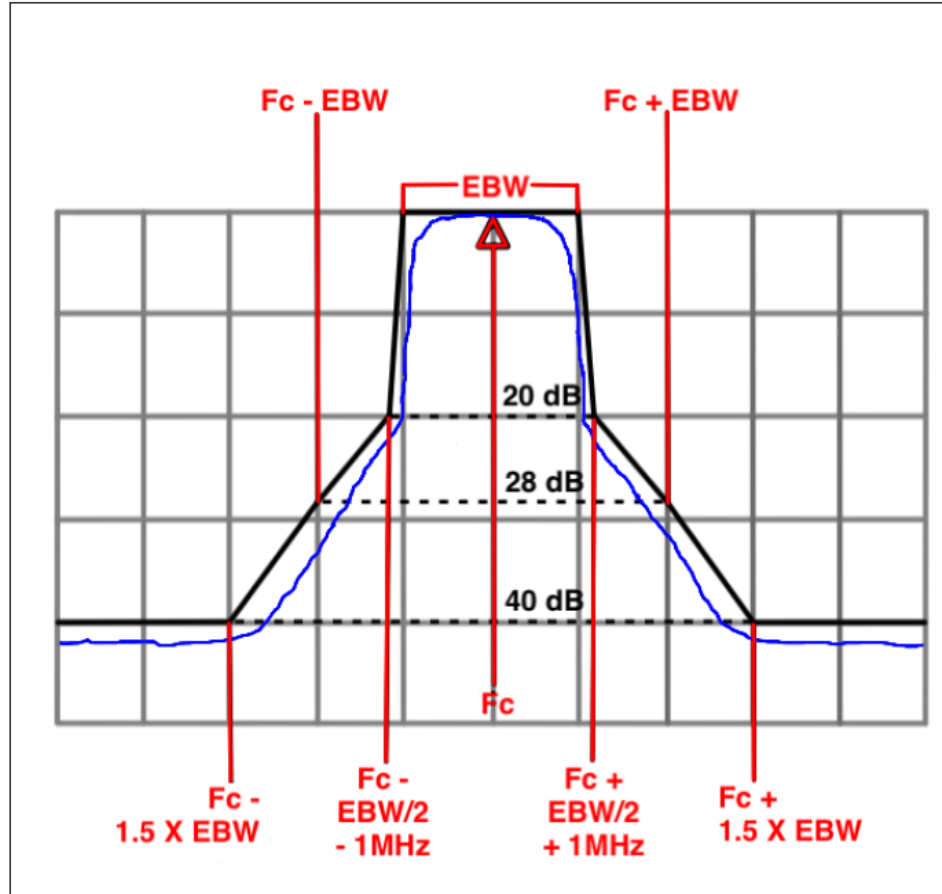
Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance 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($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$).
EX. Above 18GHz emission limit calculation (3m to 1m) = 54dBuV/m at 3m + 9.54dB = 63.54 dBuV/m at 1m.

Un-restricted band emissions above 1GHz Limit	
Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	e.i.r.p. -27 dBm [68.2 dBuV/m@3m] Note 1: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m($20 \times \log(\text{standard distance}/\text{test distance}) = 20\log(3/1) = 9.54\text{dB}$). EX. Above 18GHz emission limit calculation (3m to 1m) = 68.2dBuV/m at 3m + 9.54dB = 77.74 dBuV/m at 1m.
Frequency	Emission MASK Limit
5.945 – 7.125 GHz	Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the

limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB. The channel bandwidth is defined as 26 dB EBW.



3.5.2 Measuring Instruments

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

**3.5.3 Test Procedures**

Test Method	
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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging). (For unrestricted band measurement)
	☐ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☒ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.(For restricted band average measurement)
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
	☒ Refer as FCC KDB 789033, clause G)3)d)ii) for Band edge Integration measurements.
For emission MASK shall be measured using following options below:	
	☒ Refer as KDB 987594 D02, J) In-Band Emissions
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

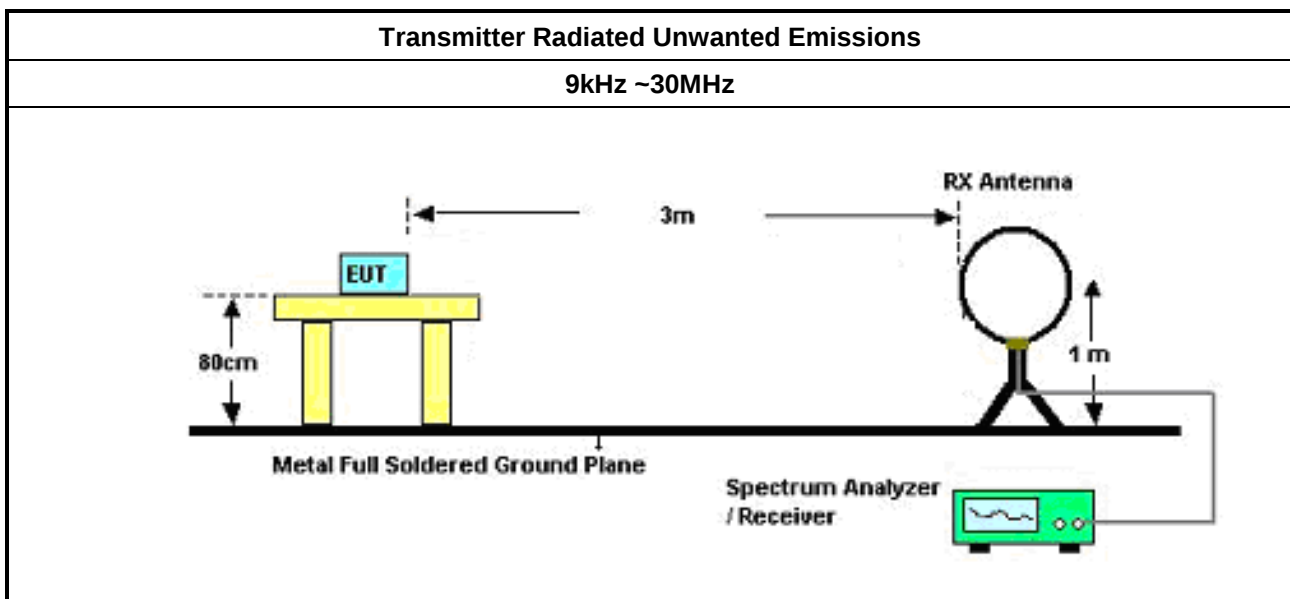
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

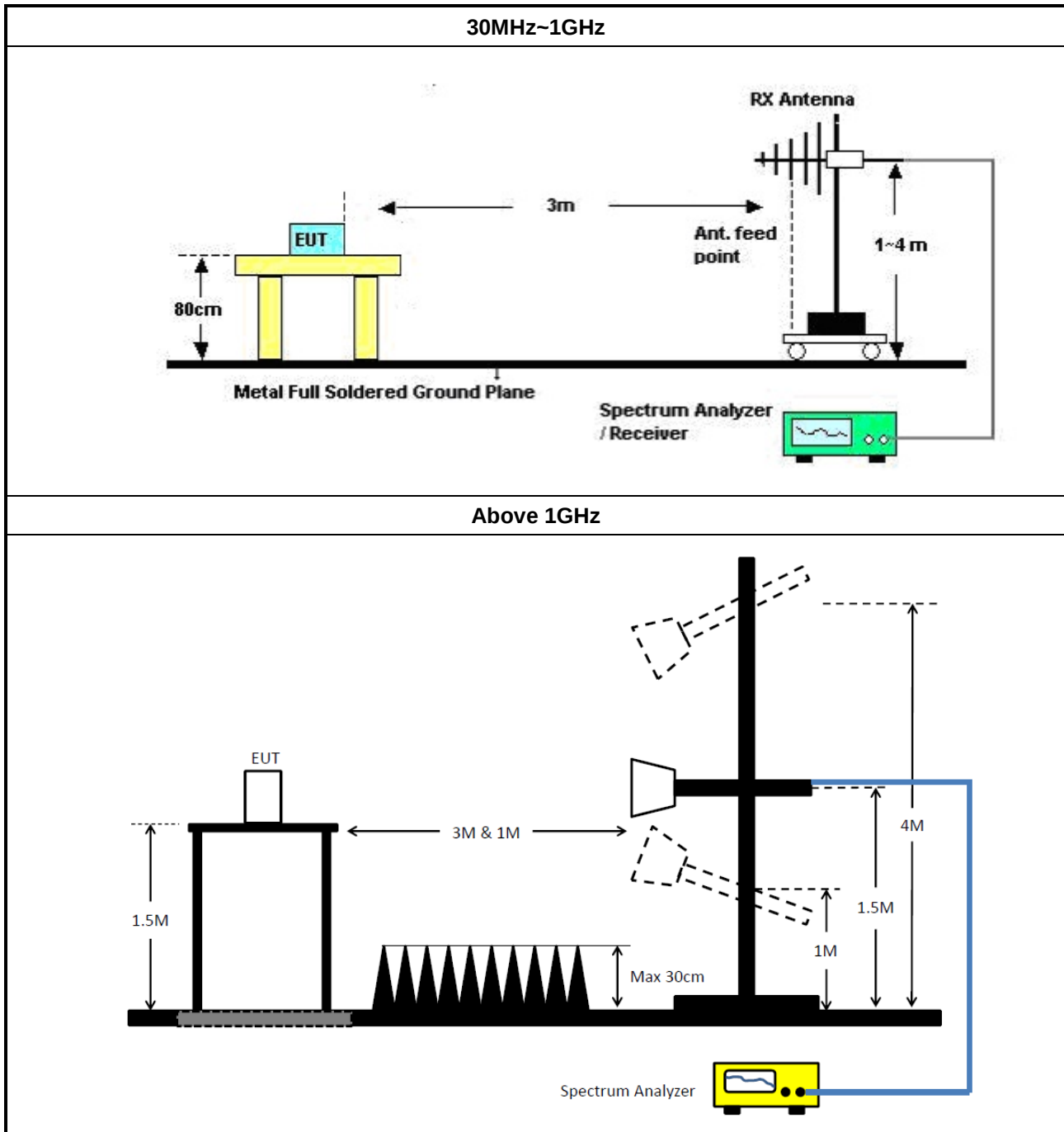
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

3.5.5 Test Setup





3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	18/Apr/2025	17/Apr/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	949003	300MHz~40GHz	13/Feb/2025	12/Feb/2026
Pulse Sensor	Anritsu	MA2411B	917017	300MHz~40GHz	13/Feb/2025	12/Feb/2026
SENSE-15407_NII	Sporton	V5.11.23	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH02-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	14/Jul/2024	13/Jul/2025
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101750	10Hz~44GHz	10/Apr/2025	09/Apr/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	13/Feb/2025	12/Feb/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	26/Apr/2025	25/Apr/2026
SENSE-EMI	Sporton	V5.11.9	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH24-HY_Other Antenna)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	16/Aug/2024	15/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	30/Jul/2024	29/Jul/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	27/Aug/2024	26/Aug/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	14/Apr/2024	13/Apr/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	15/Aug/2024	14/Aug/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	05/Jun/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	03CH24-cable -01	9kHz~40GHz	01/Oct/2024	30/Sep/2025
Pre-Amplifier	Aglient	8447D	2944A06292	30MHz~1GHz	18/Apr/2024	17/Apr/2025
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	12/Aug/2024	11/Aug/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	15/Apr/2024	14/Apr/2025
SENSE-15407-NII	Sporton	V5.11.20	NA	NA	NA	NA

**Instrument for Radiated Test (03CH24-HY_Panel Antenna)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	16/Aug/2024	15/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	30/Jul/2024	29/Jul/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	27/Aug/2024	26/Aug/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	13/Apr/2025	12/Apr/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	15/Aug/2024	14/Aug/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	03CH24-cable -01	9kHz~40GHz	01/Oct/2024	30/Sep/2025
Pre-Amplifier	Aglient	8447D	2944A06292	30MHz~1GHz	08/Apr/2025	07/Apr/2026
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	12/Aug/2024	11/Aug/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247-DTS	Sporton	V5.11.20	NA	NA	NA	NA



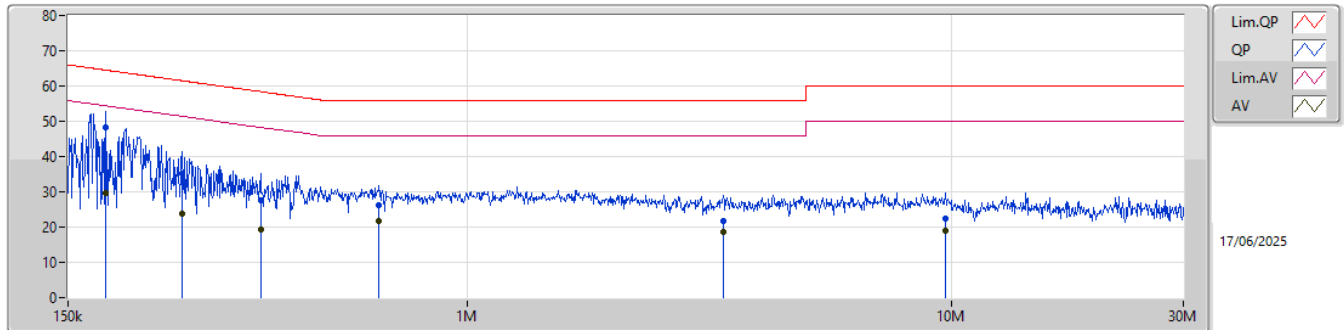
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	164.43k	50.61	65.24	-14.63	Neutral

Result

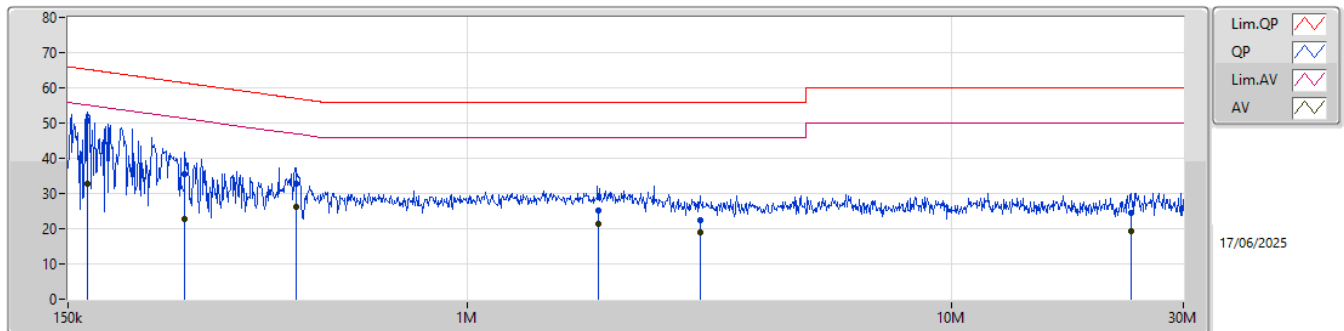
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	179.52k	48.16	64.51	-16.35	Line
Mode 1	Pass	AV	179.52k	29.73	54.51	-24.78	Line
Mode 1	Pass	QP	258.15k	35.02	61.49	-26.47	Line
Mode 1	Pass	AV	258.15k	23.64	51.49	-27.85	Line
Mode 1	Pass	QP	374.21k	27.62	58.41	-30.79	Line
Mode 1	Pass	AV	374.21k	19.25	48.41	-29.16	Line
Mode 1	Pass	QP	657k	26.12	56.00	-29.88	Line
Mode 1	Pass	AV	657k	21.73	46.00	-24.27	Line
Mode 1	Pass	QP	3.38M	21.78	56.00	-34.22	Line
Mode 1	Pass	AV	3.38M	18.58	46.00	-27.42	Line
Mode 1	Pass	QP	9.69M	22.55	60.00	-37.45	Line
Mode 1	Pass	AV	9.69M	19.11	50.00	-30.89	Line
Mode 1	Pass	QP	164.43k	50.61	65.24	-14.63	Neutral
Mode 1	Pass	AV	164.43k	32.81	55.24	-22.43	Neutral
Mode 1	Pass	QP	261.26k	35.51	61.39	-25.88	Neutral
Mode 1	Pass	AV	261.26k	22.82	51.39	-28.57	Neutral
Mode 1	Pass	QP	442.51k	32.70	57.01	-24.31	Neutral
Mode 1	Pass	AV	442.51k	26.05	47.01	-20.96	Neutral
Mode 1	Pass	QP	1.86M	25.18	56.00	-30.82	Neutral
Mode 1	Pass	AV	1.86M	21.44	46.00	-24.56	Neutral
Mode 1	Pass	QP	3.02M	22.34	56.00	-33.66	Neutral
Mode 1	Pass	AV	3.02M	19.00	46.00	-27.00	Neutral
Mode 1	Pass	QP	23.4M	24.33	60.00	-35.67	Neutral
Mode 1	Pass	AV	23.4M	19.45	50.00	-30.55	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	179.52k	48.16	64.51	-16.35	19.61	Line	-	28.55	9.63	0.01	9.97						
AV	179.52k	29.73	54.51	-24.78	19.61	Line	-	10.12	9.63	0.01	9.97						
QP	258.15k	35.02	61.49	-26.47	19.62	Line	-	15.40	9.63	0.02	9.97						
AV	258.15k	23.64	51.49	-27.85	19.62	Line	-	4.02	9.63	0.02	9.97						
QP	374.21k	27.62	58.41	-30.79	19.64	Line	-	7.98	9.63	0.03	9.98						
AV	374.21k	19.25	48.41	-29.16	19.64	Line	-	-0.39	9.63	0.03	9.98						
QP	657k	26.12	56.00	-29.88	19.66	Line	-	6.46	9.64	0.04	9.98						
AV	657k	21.73	46.00	-24.27	19.66	Line	-	2.07	9.64	0.04	9.98						
QP	3.38M	21.78	56.00	-34.22	19.70	Line	-	2.08	9.67	0.05	9.98						
AV	3.38M	18.58	46.00	-27.42	19.70	Line	-	-1.12	9.67	0.05	9.98						
QP	9.69M	22.55	60.00	-37.45	19.99	Line	-	2.56	9.78	0.23	9.98						
AV	9.69M	19.11	50.00	-30.89	19.99	Line	-	-0.88	9.78	0.23	9.98						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	164.43k	50.61	65.24	-14.63	19.71	Neutral	-	30.90	9.73	0.01	9.97						
AV	164.43k	32.81	55.24	-22.43	19.71	Neutral	-	13.10	9.73	0.01	9.97						
QP	261.26k	35.51	61.39	-25.88	19.71	Neutral	-	15.80	9.72	0.02	9.97						
AV	261.26k	22.82	51.39	-28.57	19.71	Neutral	-	3.11	9.72	0.02	9.97						
QP	442.51k	32.70	57.01	-24.31	19.72	Neutral	-	12.98	9.71	0.03	9.98						
AV	442.51k	26.05	47.01	-20.96	19.72	Neutral	-	6.33	9.71	0.03	9.98						
QP	1.86M	25.18	56.00	-30.82	19.74	Neutral	-	5.44	9.74	0.03	9.97						
AV	1.86M	21.44	46.00	-24.56	19.74	Neutral	-	1.70	9.74	0.03	9.97						
QP	3.02M	22.34	56.00	-33.66	19.79	Neutral	-	2.55	9.77	0.04	9.98						
AV	3.02M	19.00	46.00	-27.00	19.79	Neutral	-	-0.79	9.77	0.04	9.98						
QP	23.4M	24.33	60.00	-35.67	20.45	Neutral	-	3.88	10.14	0.32	9.99						
AV	23.4M	19.45	50.00	-30.55	20.45	Neutral	-	-1.00	10.14	0.32	9.99						



Conducted Emissions at Powerline_ Dual-Polarized MIMO Panel Antenna

Appendix A.2

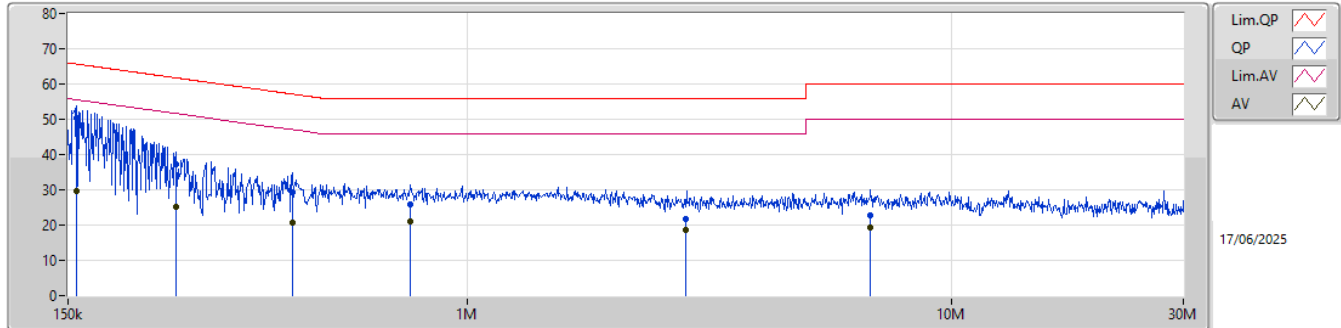
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.11k	50.24	65.67	-15.43	Line

Result

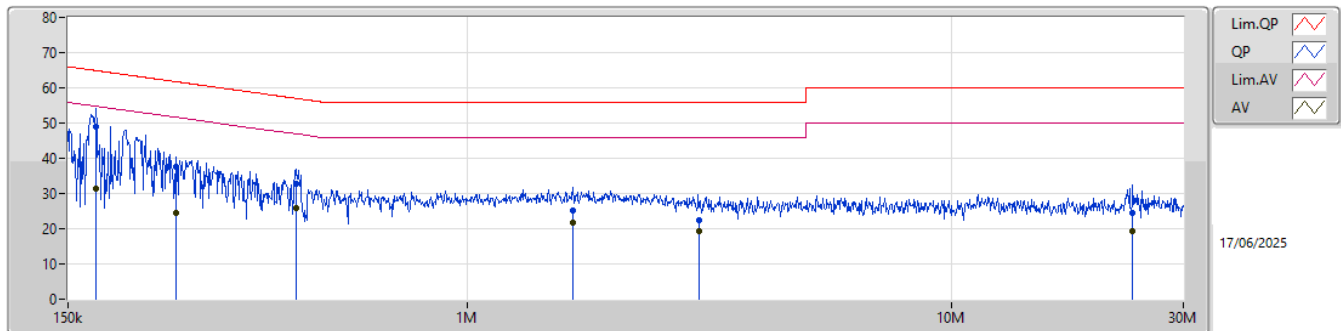
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.11k	50.24	65.67	-15.43	Line
Mode 1	Pass	AV	156.11k	29.76	55.67	-25.91	Line
Mode 1	Pass	QP	250.04k	37.32	61.76	-24.44	Line
Mode 1	Pass	AV	250.04k	25.15	51.76	-26.61	Line
Mode 1	Pass	QP	435.5k	29.42	57.15	-27.73	Line
Mode 1	Pass	AV	435.5k	20.85	47.15	-26.30	Line
Mode 1	Pass	QP	761.57k	25.75	56.00	-30.25	Line
Mode 1	Pass	AV	761.57k	21.04	46.00	-24.96	Line
Mode 1	Pass	QP	2.83M	21.61	56.00	-34.39	Line
Mode 1	Pass	AV	2.83M	18.51	46.00	-27.49	Line
Mode 1	Pass	QP	6.79M	22.68	60.00	-37.32	Line
Mode 1	Pass	AV	6.79M	19.39	50.00	-30.61	Line
Mode 1	Pass	QP	171.12k	49.11	64.91	-15.80	Neutral
Mode 1	Pass	AV	171.12k	31.53	54.91	-23.38	Neutral
Mode 1	Pass	QP	250.04k	37.55	61.76	-24.21	Neutral
Mode 1	Pass	AV	250.04k	24.64	51.76	-27.12	Neutral
Mode 1	Pass	QP	442.51k	32.80	57.01	-24.21	Neutral
Mode 1	Pass	AV	442.51k	25.90	47.01	-21.11	Neutral
Mode 1	Pass	QP	1.65M	25.28	56.00	-30.72	Neutral
Mode 1	Pass	AV	1.65M	21.62	46.00	-24.38	Neutral
Mode 1	Pass	QP	3M	22.41	56.00	-33.59	Neutral
Mode 1	Pass	AV	3M	19.14	46.00	-26.86	Neutral
Mode 1	Pass	QP	23.59M	24.33	60.00	-35.67	Neutral
Mode 1	Pass	AV	23.59M	19.46	50.00	-30.54	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	156.11k	50.24	65.67	-15.43	19.61	Line	-	30.63	9.63	0.01	9.97						
AV	156.11k	29.76	55.67	-25.91	19.61	Line	-	10.15	9.63	0.01	9.97						
QP	250.04k	37.32	61.76	-24.44	19.62	Line	-	17.70	9.63	0.02	9.97						
AV	250.04k	25.15	51.76	-26.61	19.62	Line	-	5.53	9.63	0.02	9.97						
QP	435.5k	29.42	57.15	-27.73	19.64	Line	-	9.78	9.63	0.03	9.98						
AV	435.5k	20.85	47.15	-26.30	19.64	Line	-	1.21	9.63	0.03	9.98						
QP	761.57k	25.75	56.00	-30.25	19.66	Line	-	6.09	9.64	0.04	9.98						
AV	761.57k	21.04	46.00	-24.96	19.66	Line	-	1.38	9.64	0.04	9.98						
QP	2.83M	21.61	56.00	-34.39	19.69	Line	-	1.92	9.67	0.04	9.98						
AV	2.83M	18.51	46.00	-27.49	19.69	Line	-	-1.18	9.67	0.04	9.98						
QP	6.79M	22.68	60.00	-37.32	19.87	Line	-	2.81	9.73	0.16	9.98						
AV	6.79M	19.39	50.00	-30.61	19.87	Line	-	-0.48	9.73	0.16	9.98						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	171.12k	49.11	64.91	-15.80	19.71	Neutral	-	29.40	9.73	0.01	9.97						
AV	171.12k	31.53	54.91	-23.38	19.71	Neutral	-	11.82	9.73	0.01	9.97						
QP	250.04k	37.55	61.76	-24.21	19.71	Neutral	-	17.84	9.72	0.02	9.97						
AV	250.04k	24.64	51.76	-27.12	19.71	Neutral	-	4.93	9.72	0.02	9.97						
QP	442.51k	32.80	57.01	-24.21	19.72	Neutral	-	13.08	9.71	0.03	9.98						
AV	442.51k	25.90	47.01	-21.11	19.72	Neutral	-	6.18	9.71	0.03	9.98						
QP	1.65M	25.28	56.00	-30.72	19.74	Neutral	-	5.54	9.73	0.04	9.97						
AV	1.65M	21.62	46.00	-24.38	19.74	Neutral	-	1.88	9.73	0.04	9.97						
QP	3M	22.41	56.00	-33.59	19.79	Neutral	-	2.62	9.77	0.04	9.98						
AV	3M	19.14	46.00	-26.86	19.79	Neutral	-	-0.65	9.77	0.04	9.98						
QP	23.59M	24.33	60.00	-35.67	20.46	Neutral	-	3.87	10.15	0.32	9.99						
AV	23.59M	19.46	50.00	-30.54	20.46	Neutral	-	-1.00	10.15	0.32	9.99						



Conducted Emissions at Powerline_Panel Antenna

Appendix A.3

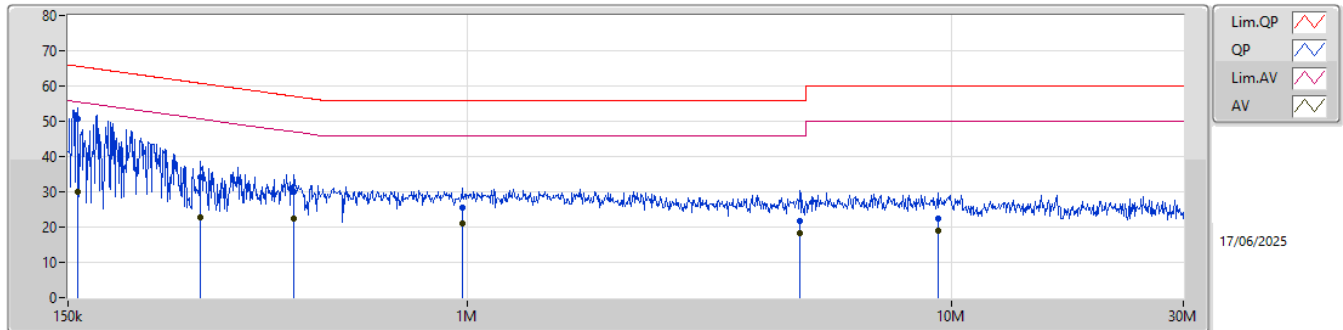
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.73k	50.71	65.64	-14.93	Line

Result

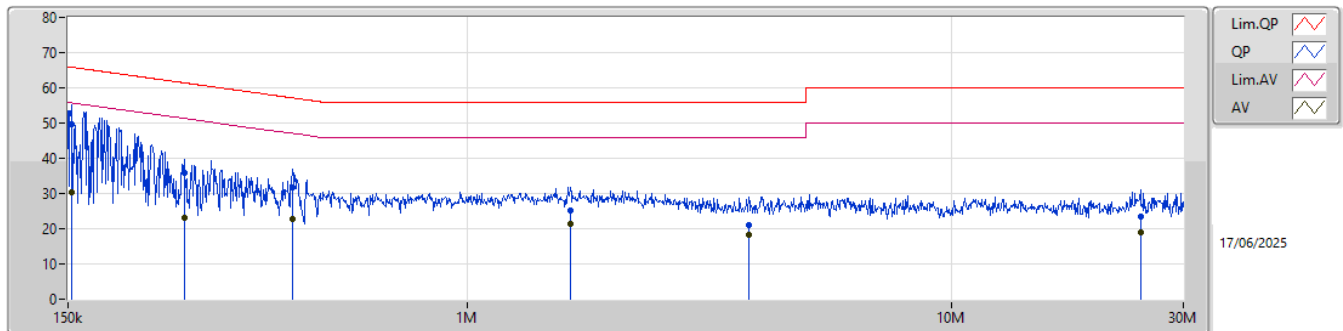
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.73k	50.71	65.64	-14.93	Line
Mode 1	Pass	AV	156.73k	30.02	55.64	-25.62	Line
Mode 1	Pass	QP	280.73k	34.28	60.80	-26.52	Line
Mode 1	Pass	AV	280.73k	22.62	50.80	-28.18	Line
Mode 1	Pass	QP	439k	30.11	57.09	-26.98	Line
Mode 1	Pass	AV	439k	22.30	47.09	-24.79	Line
Mode 1	Pass	QP	975.45k	25.41	56.00	-30.59	Line
Mode 1	Pass	AV	975.45k	21.17	46.00	-24.83	Line
Mode 1	Pass	QP	4.86M	21.74	56.00	-34.26	Line
Mode 1	Pass	AV	4.86M	18.38	46.00	-27.62	Line
Mode 1	Pass	QP	9.34M	22.44	60.00	-37.56	Line
Mode 1	Pass	AV	9.34M	19.13	50.00	-30.87	Line
Mode 1	Pass	QP	152.41k	49.54	65.87	-16.33	Neutral
Mode 1	Pass	AV	152.41k	30.44	55.87	-25.43	Neutral
Mode 1	Pass	QP	260.22k	35.71	61.43	-25.72	Neutral
Mode 1	Pass	AV	260.22k	23.03	51.43	-28.40	Neutral
Mode 1	Pass	QP	435.5k	31.86	57.15	-25.29	Neutral
Mode 1	Pass	AV	435.5k	22.60	47.15	-24.55	Neutral
Mode 1	Pass	QP	1.63M	25.06	56.00	-30.94	Neutral
Mode 1	Pass	AV	1.63M	21.43	46.00	-24.57	Neutral
Mode 1	Pass	QP	3.81M	21.16	56.00	-34.84	Neutral
Mode 1	Pass	AV	3.81M	18.19	46.00	-27.81	Neutral
Mode 1	Pass	QP	24.45M	23.34	60.00	-36.66	Neutral
Mode 1	Pass	AV	24.45M	18.85	50.00	-31.15	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	156.73k	50.71	65.64	-14.93	19.61	Line	-	31.10	9.63	0.01	9.97								
AV	156.73k	30.02	55.64	-25.62	19.61	Line	-	10.41	9.63	0.01	9.97								
QP	280.73k	34.28	60.80	-26.52	19.62	Line	-	14.66	9.63	0.02	9.97								
AV	280.73k	22.62	50.80	-28.18	19.62	Line	-	3.00	9.63	0.02	9.97								
QP	439k	30.11	57.09	-26.98	19.64	Line	-	10.47	9.63	0.03	9.98								
AV	439k	22.30	47.09	-24.79	19.64	Line	-	2.66	9.63	0.03	9.98								
QP	975.45k	25.41	56.00	-30.59	19.67	Line	-	5.74	9.64	0.05	9.98								
AV	975.45k	21.17	46.00	-24.83	19.67	Line	-	1.50	9.64	0.05	9.98								
QP	4.86M	21.74	56.00	-34.26	19.76	Line	-	1.98	9.69	0.09	9.98								
AV	4.86M	18.38	46.00	-27.62	19.76	Line	-	-1.38	9.69	0.09	9.98								
QP	9.34M	22.44	60.00	-37.56	19.98	Line	-	2.46	9.77	0.23	9.98								
AV	9.34M	19.13	50.00	-30.87	19.98	Line	-	-0.85	9.77	0.23	9.98								

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	152.41k	49.54	65.87	-16.33	19.71	Neutral	-	29.83	9.73	0.01	9.97								
AV	152.41k	30.44	55.87	-25.43	19.71	Neutral	-	10.73	9.73	0.01	9.97								
QP	260.22k	35.71	61.43	-25.72	19.71	Neutral	-	16.00	9.72	0.02	9.97								
AV	260.22k	23.03	51.43	-28.40	19.71	Neutral	-	3.32	9.72	0.02	9.97								
QP	435.5k	31.86	57.15	-25.29	19.72	Neutral	-	12.14	9.71	0.03	9.98								
AV	435.5k	22.60	47.15	-24.55	19.72	Neutral	-	2.88	9.71	0.03	9.98								
QP	1.63M	25.06	56.00	-30.94	19.74	Neutral	-	5.32	9.73	0.04	9.97								
AV	1.63M	21.43	46.00	-24.57	19.74	Neutral	-	1.69	9.73	0.04	9.97								
QP	3.81M	21.16	56.00	-34.84	19.82	Neutral	-	1.34	9.79	0.05	9.98								
AV	3.81M	18.19	46.00	-27.81	19.82	Neutral	-	-1.63	9.79	0.05	9.98								
QP	24.45M	23.34	60.00	-36.66	20.47	Neutral	-	2.87	10.16	0.32	9.99								
AV	24.45M	18.85	50.00	-31.15	20.47	Neutral	-	-1.62	10.16	0.32	9.99								

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.23M	16.734M	16M7D1D	20.735M	16.69M
802.11be EHT20_Nss1,(MCS0)_1TX	21.395M	19.09M	19M1D1D	21.065M	19.065M
802.11be EHT40_Nss1,(MCS0)_1TX	49.39M	37.881M	37M9D1D	40.48M	37.781M
802.11be EHT80_Nss1,(MCS0)_1TX	90.2M	77.361M	77M4D1D	81.18M	77.261M
802.11be EHT160_Nss1,(MCS0)_1TX	173.36M	156.522M	157MD1D	161.92M	155.922M
802.11be EHT320_Nss1,(MCS0)_1TX	327.36M	316.242M	316MD1D	324.72M	314.643M
6.525-6.875GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	25.135M	16.866M	16M9D1D	21.23M	16.734M
802.11be EHT20_Nss1,(MCS0)_1TX	29.7M	19.165M	19M2D1D	21.34M	19.04M
802.11be EHT40_Nss1,(MCS0)_1TX	60.39M	37.931M	37M9D1D	40.04M	37.731M
802.11be EHT80_Nss1,(MCS0)_1TX	117.7M	77.661M	77M7D1D	97.02M	77.461M
802.11be EHT160_Nss1,(MCS0)_1TX	249.04M	156.922M	157MD1D	249.04M	156.922M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5955MHz	Pass	Inf	21.23M	16.734M
6195MHz	Pass	Inf	20.79M	16.69M
6415MHz	Pass	Inf	20.735M	16.69M
6535MHz	Pass	Inf	21.23M	16.734M
6695MHz	Pass	Inf	24.805M	16.866M
6855MHz	Pass	Inf	25.135M	16.844M
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-
5955MHz	Pass	Inf	21.395M	19.09M
6195MHz	Pass	Inf	21.065M	19.09M
6415MHz	Pass	Inf	21.065M	19.065M
6535MHz	Pass	Inf	21.34M	19.04M
6695MHz	Pass	Inf	29.26M	19.165M
6855MHz	Pass	Inf	29.7M	19.115M
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-
5965MHz	Pass	Inf	49.39M	37.881M
6205MHz	Pass	Inf	47.63M	37.781M
6405MHz	Pass	Inf	40.48M	37.781M
6565MHz	Pass	Inf	40.04M	37.731M
6685MHz	Pass	Inf	60.39M	37.931M
6845MHz	Pass	Inf	53.57M	37.931M
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-
5985MHz	Pass	Inf	90.2M	77.261M
6225MHz	Pass	Inf	82.06M	77.361M
6385MHz	Pass	Inf	81.18M	77.261M
6625MHz	Pass	Inf	105.82M	77.561M
6705MHz	Pass	Inf	117.7M	77.661M
6785MHz	Pass	Inf	97.02M	77.461M
802.11be EHT160_Nss1,(MCS0)_1TX	-	-	-	-
6025MHz	Pass	Inf	161.92M	155.922M
6185MHz	Pass	Inf	162.36M	156.322M
6345MHz	Pass	Inf	173.36M	156.522M
6665MHz	Pass	Inf	249.04M	156.922M
802.11be EHT320_Nss1,(MCS0)_1TX	-	-	-	-
6105MHz	Pass	Inf	324.72M	316.242M
6265MHz	Pass	Inf	327.36M	314.643M

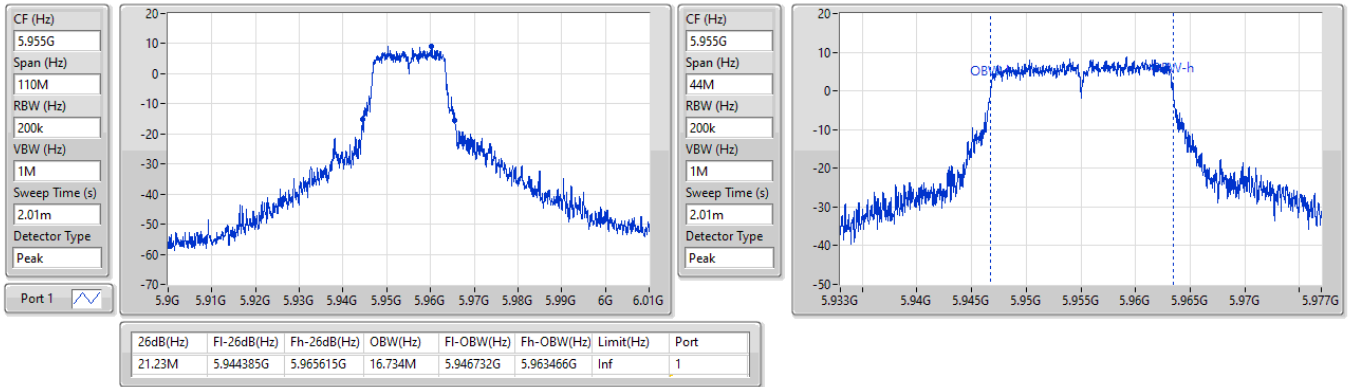
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5955MHz

14/03/2025

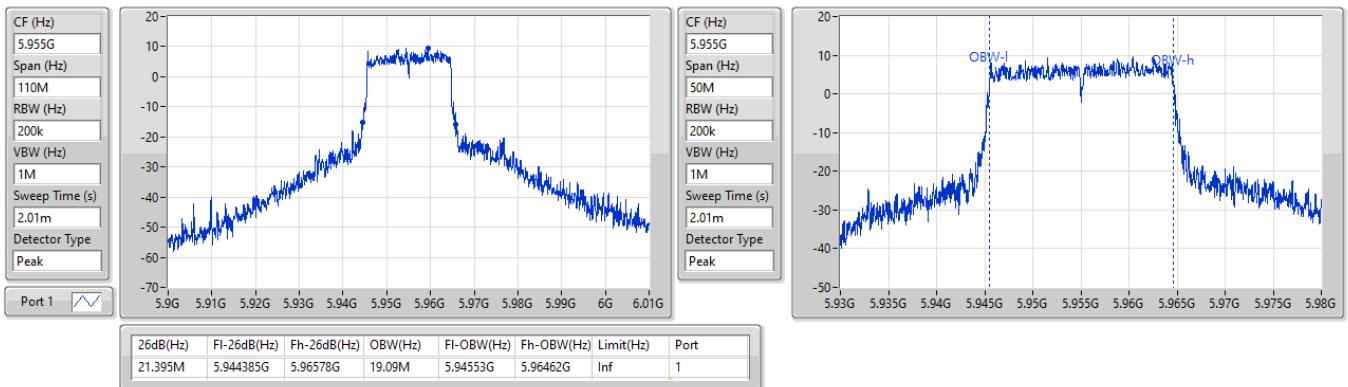


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5955MHz

14/03/2025

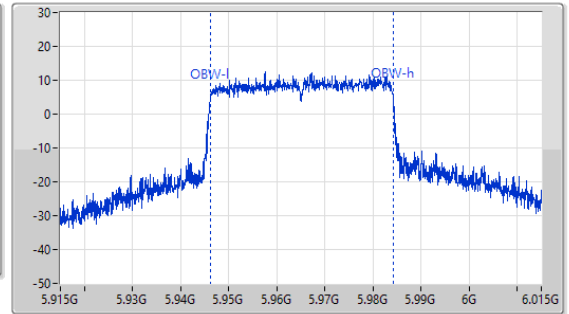
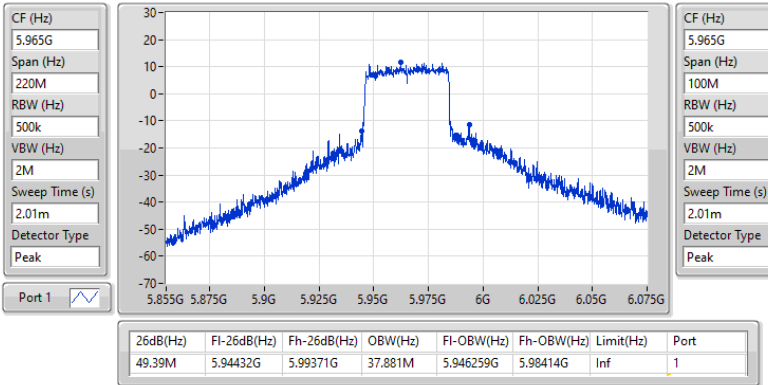


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5965MHz

14/03/2025

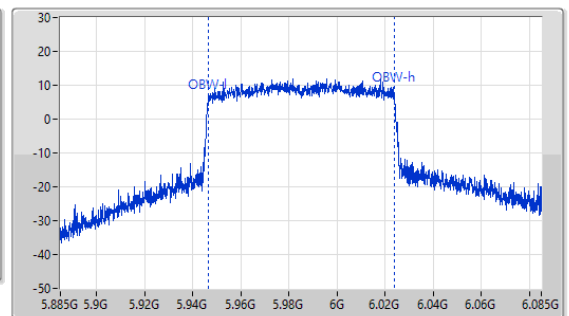
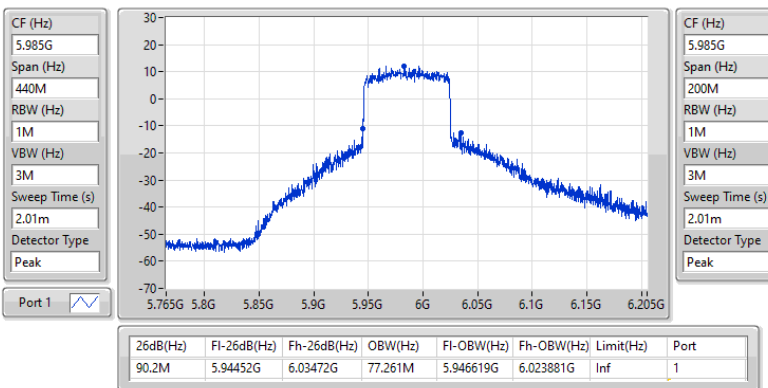


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5985MHz

14/03/2025

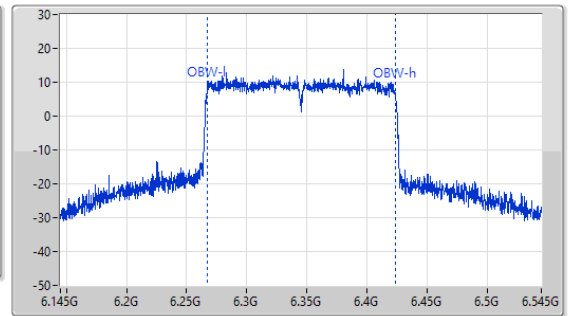
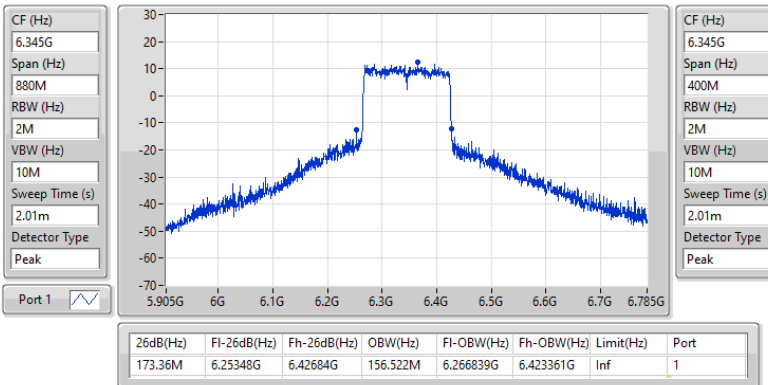


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6345MHz

14/03/2025

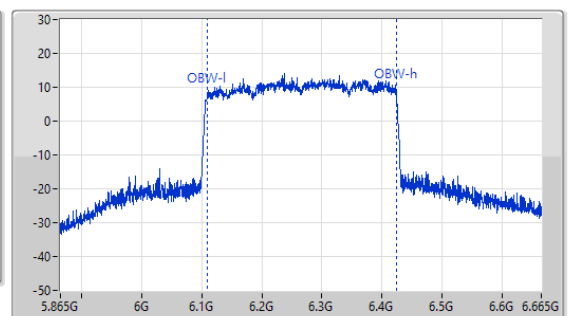
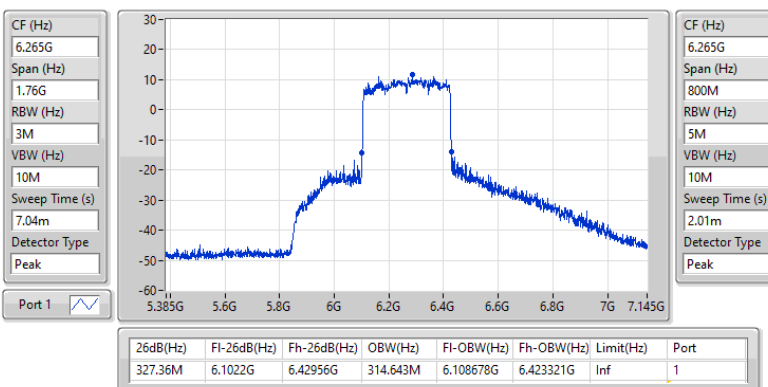


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6265MHz

14/03/2025

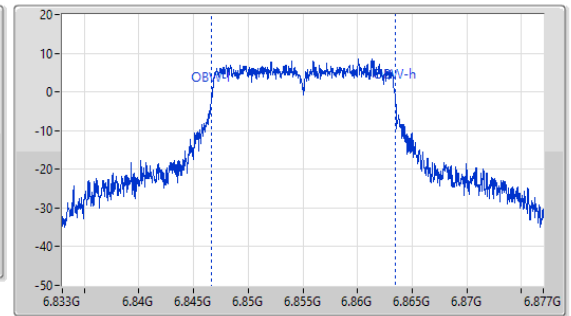
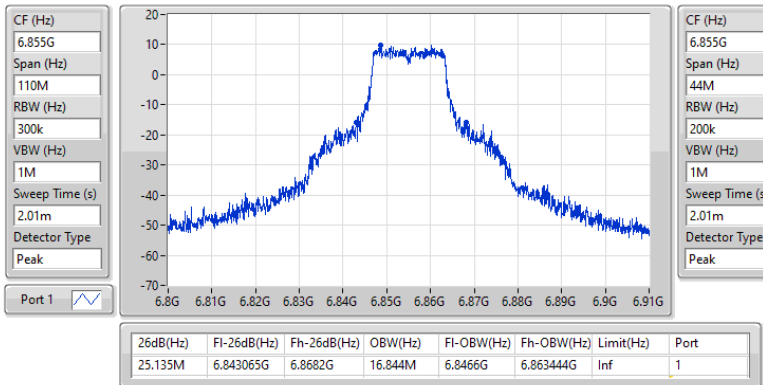


6.525-6.875GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

6855MHz

14/03/2025

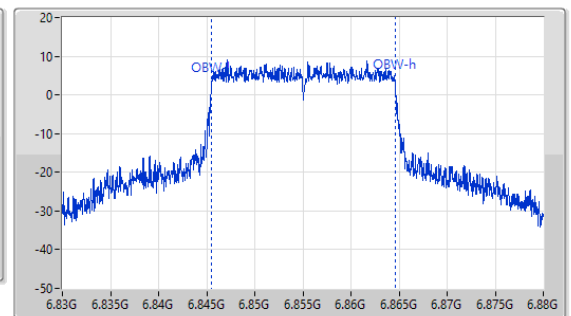
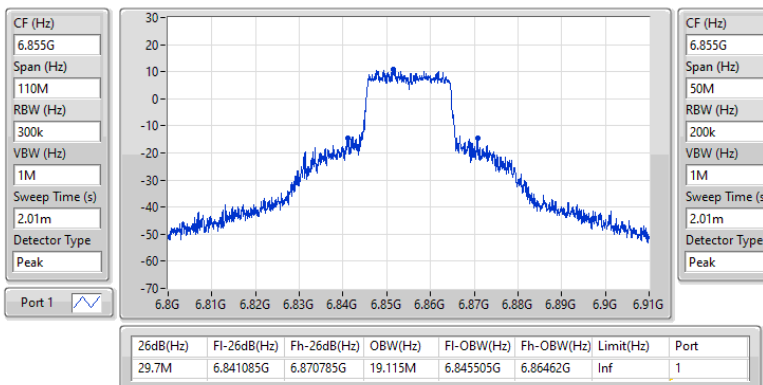


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6855MHz

14/03/2025

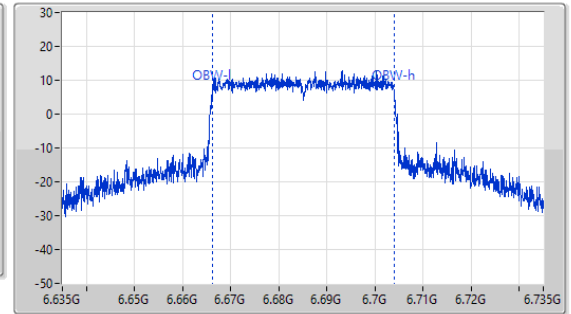
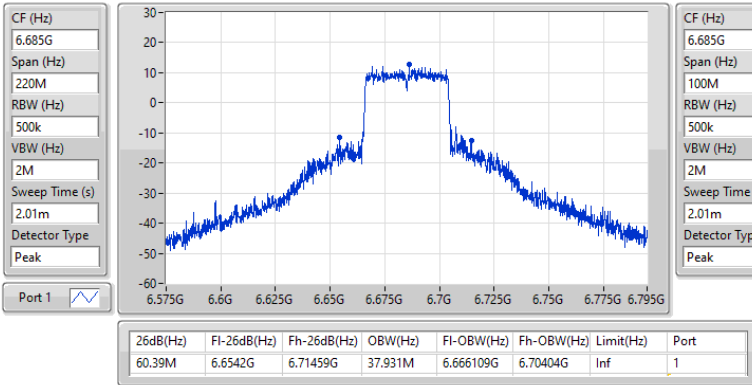


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6685MHz

14/03/2025

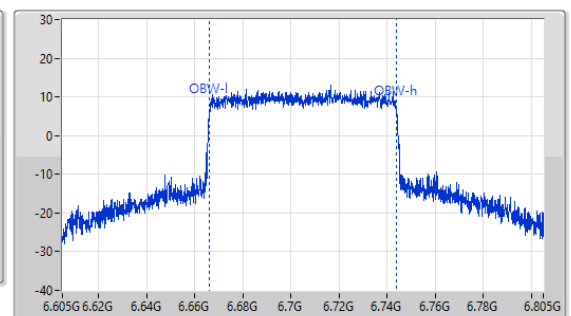
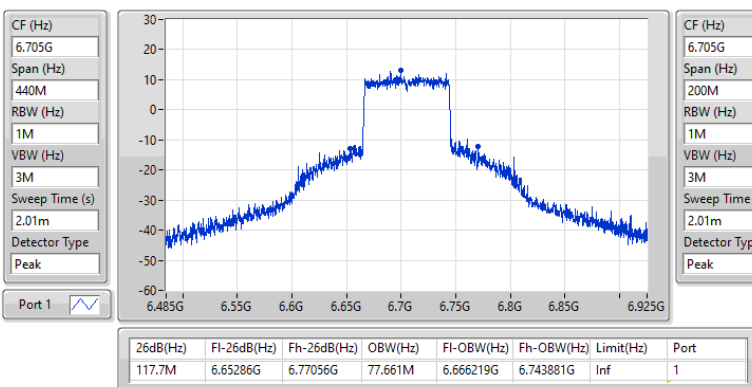


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6705MHz

14/03/2025

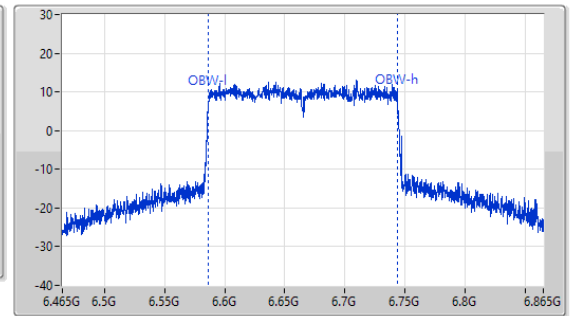
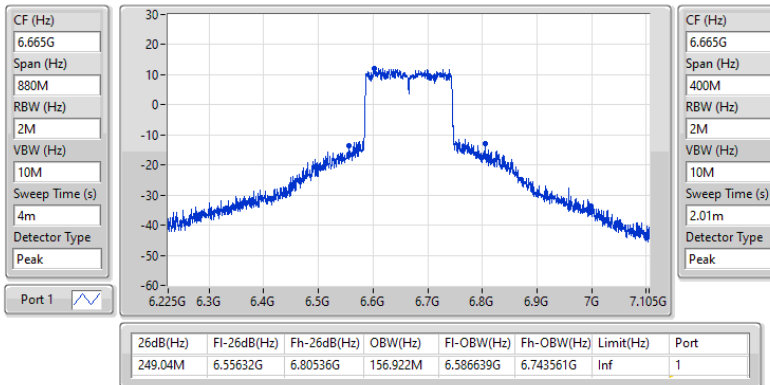


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6665MHz

14/03/2025



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.165M	16.8M	16M8D1D	20.735M	16.69M
802.11be EHT20_Nss1,(MCS0)_2TX	26.73M	19.065M	19M1D1D	21.12M	19.015M
802.11be EHT40_Nss1,(MCS0)_2TX	52.03M	37.831M	37M8D1D	40.04M	37.681M
802.11be EHT80_Nss1,(MCS0)_2TX	88M	77.361M	77M4D1D	81.18M	77.061M
802.11be EHT160_Nss1,(MCS0)_2TX	212.08M	156.522M	157MD1D	162.8M	155.722M
802.11be EHT320_Nss1,(MCS0)_2TX	379.28M	315.842M	316MD1D	326.48M	315.042M
6.525-6.875GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	29.59M	17.063M	17M1D1D	20.955M	16.712M
802.11be EHT20_Nss1,(MCS0)_2TX	31.13M	19.19M	19M2D1D	21.01M	19.015M
802.11be EHT40_Nss1,(MCS0)_2TX	70.4M	38.031M	38M0D1D	39.38M	37.681M
802.11be EHT80_Nss1,(MCS0)_2TX	121.44M	77.661M	77M7D1D	80.74M	77.161M
802.11be EHT160_Nss1,(MCS0)_2TX	245.96M	156.722M	157MD1D	174.68M	156.522M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	20.845M	16.8M	22.055M	16.712M
6195MHz	Pass	Inf	21.175M	16.734M	20.735M	16.69M
6415MHz	Pass	Inf	20.955M	16.69M	22.165M	16.734M
6535MHz	Pass	Inf	21.01M	16.734M	20.955M	16.734M
6695MHz	Pass	Inf	28.435M	17.063M	21.175M	16.734M
6855MHz	Pass	Inf	29.59M	16.976M	21.615M	16.712M
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	25.355M	19.065M	25.74M	19.015M
6195MHz	Pass	Inf	26.73M	19.04M	21.23M	19.04M
6415MHz	Pass	Inf	21.12M	19.04M	23.54M	19.015M
6535MHz	Pass	Inf	21.01M	19.015M	21.615M	19.09M
6695MHz	Pass	Inf	31.13M	19.14M	30.305M	19.065M
6855MHz	Pass	Inf	26.84M	19.19M	21.67M	19.065M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	52.03M	37.831M	44.77M	37.731M
6205MHz	Pass	Inf	41.69M	37.781M	42.57M	37.731M
6405MHz	Pass	Inf	40.04M	37.681M	40.26M	37.831M
6565MHz	Pass	Inf	40.04M	37.731M	39.38M	37.681M
6685MHz	Pass	Inf	51.92M	37.931M	41.25M	37.731M
6845MHz	Pass	Inf	70.4M	38.031M	43.78M	37.781M
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	88M	77.061M	81.18M	77.061M
6225MHz	Pass	Inf	83.16M	77.361M	81.84M	77.261M
6385MHz	Pass	Inf	81.18M	77.261M	81.18M	77.161M
6625MHz	Pass	Inf	104.94M	77.661M	80.96M	77.161M
6705MHz	Pass	Inf	121.44M	77.661M	87.34M	77.361M
6785MHz	Pass	Inf	118.8M	77.561M	80.74M	77.361M
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	165M	155.922M	212.08M	155.722M
6185MHz	Pass	Inf	164.56M	156.522M	164.12M	156.322M
6345MHz	Pass	Inf	176.88M	156.522M	162.8M	156.122M
6665MHz	Pass	Inf	245.96M	156.722M	174.68M	156.522M
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	379.28M	315.842M	326.48M	315.442M
6265MHz	Pass	Inf	327.36M	315.042M	326.48M	315.442M

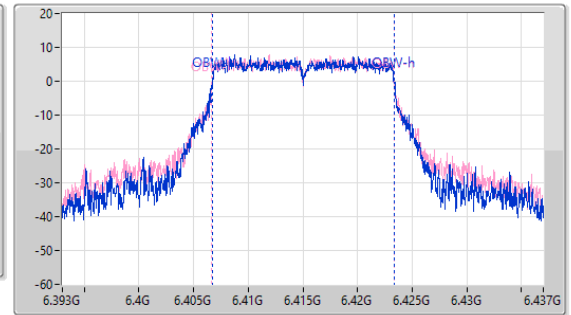
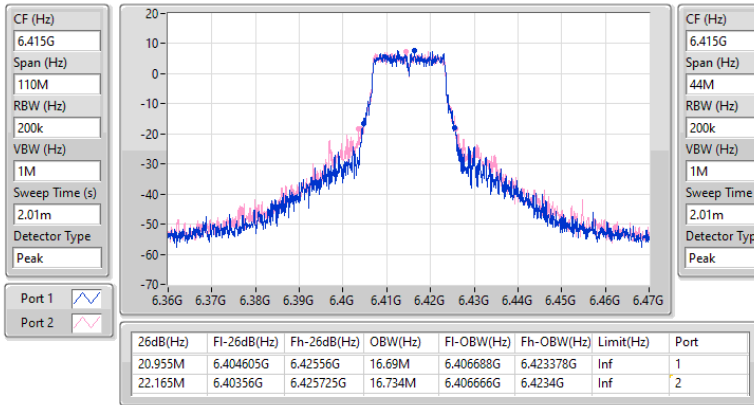
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6415MHz

14/03/2025

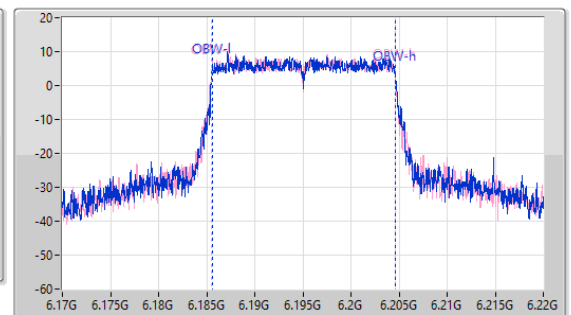
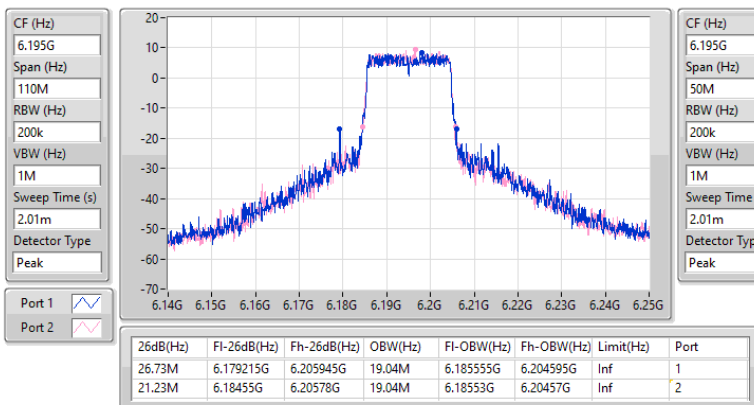


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6195MHz

14/03/2025

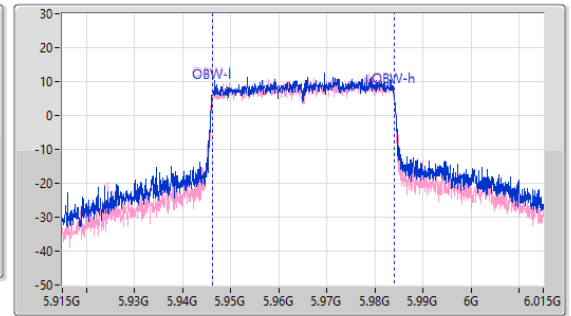
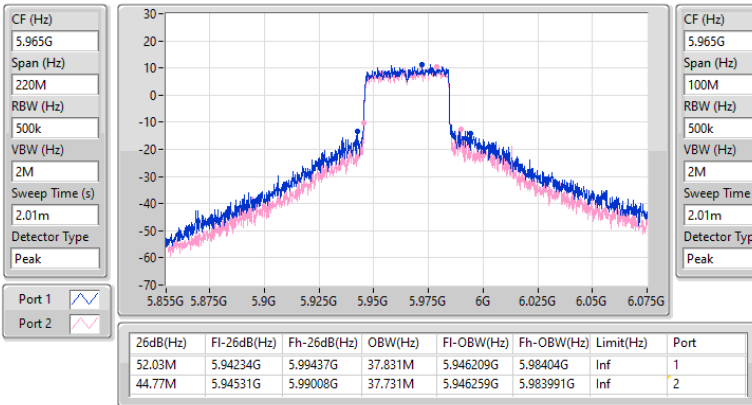


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5965MHz

14/03/2025

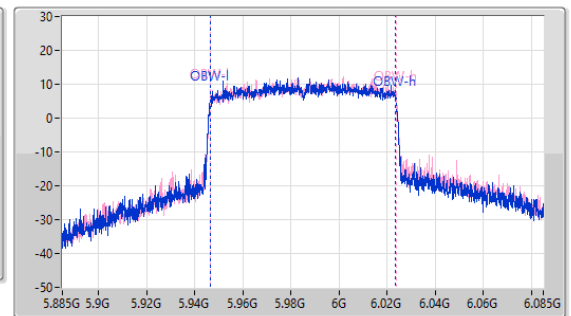
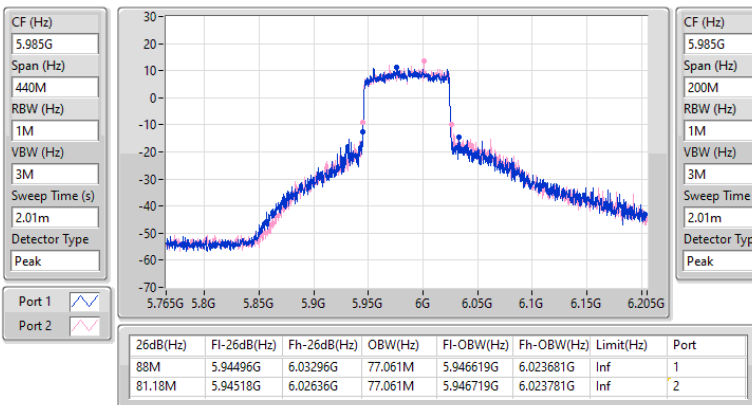


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5985MHz

14/03/2025

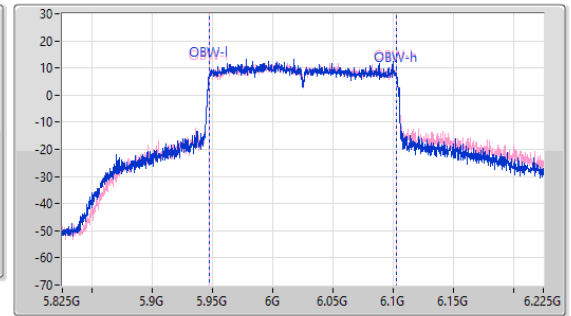
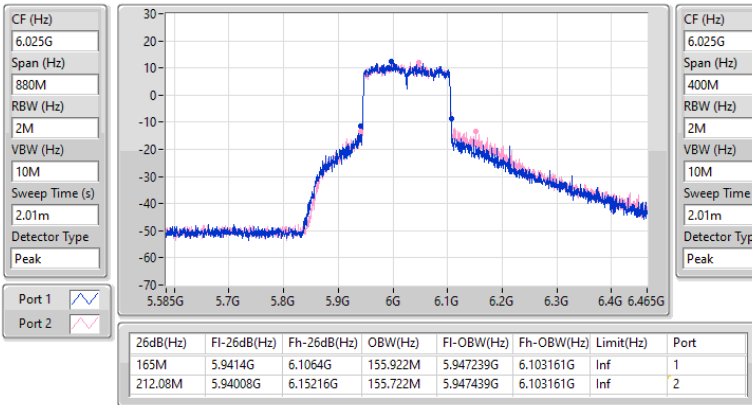


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6025MHz

14/03/2025

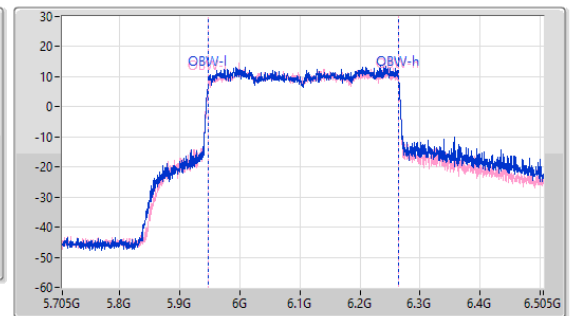
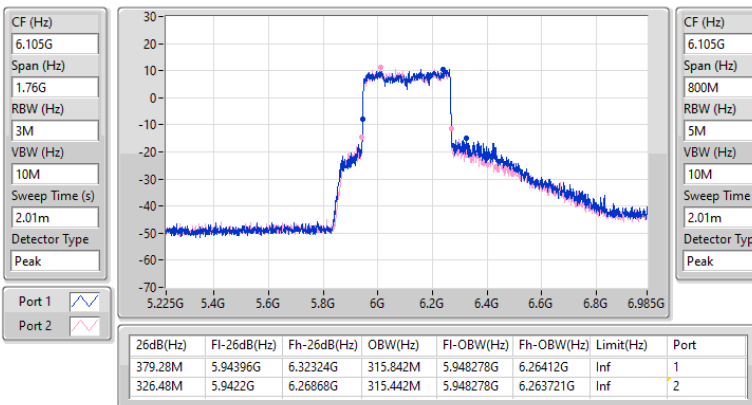


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6105MHz

14/03/2025

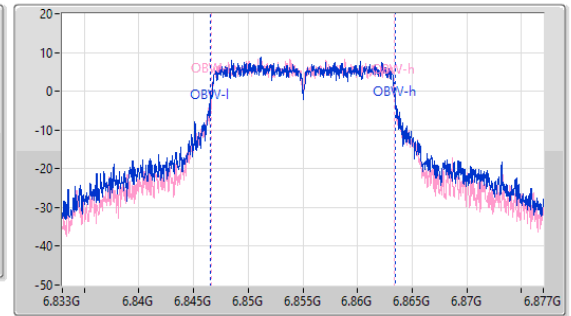
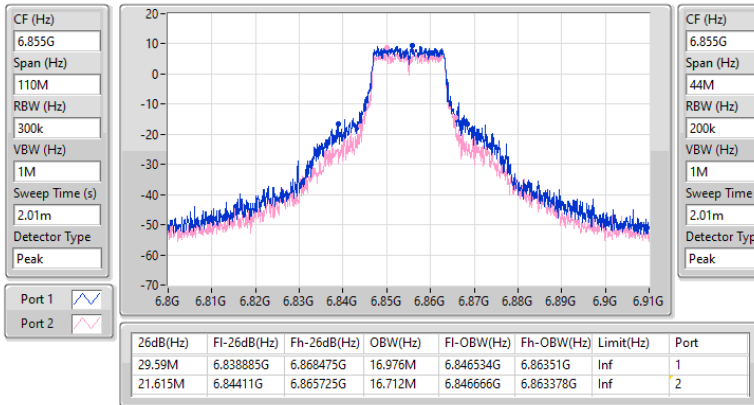


6.525-6.875GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6855MHz

14/03/2025

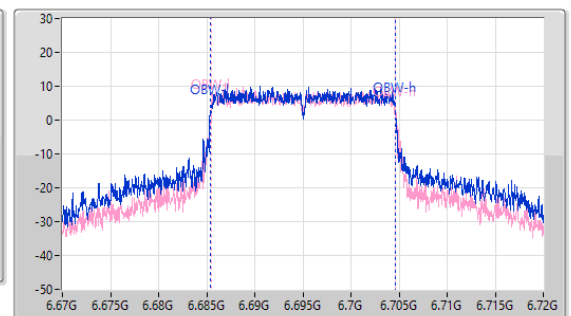
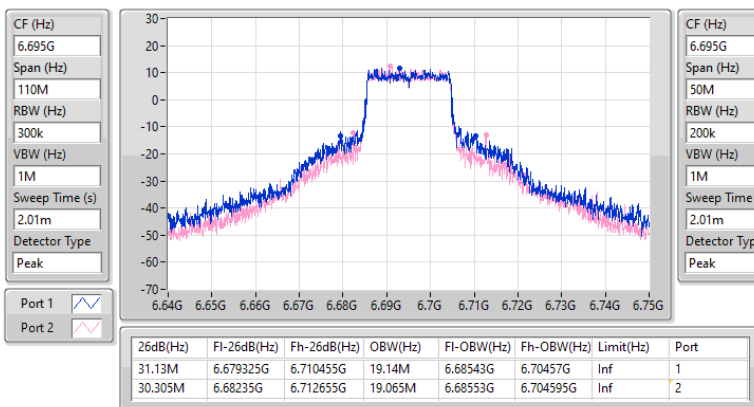


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6695MHz

14/03/2025

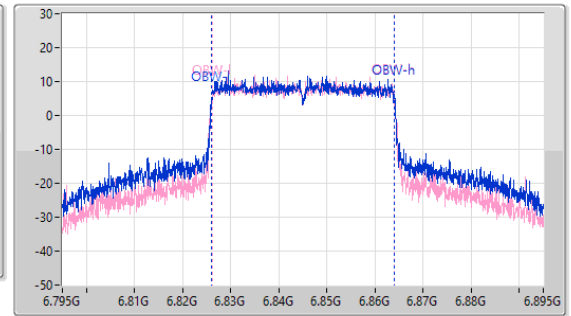
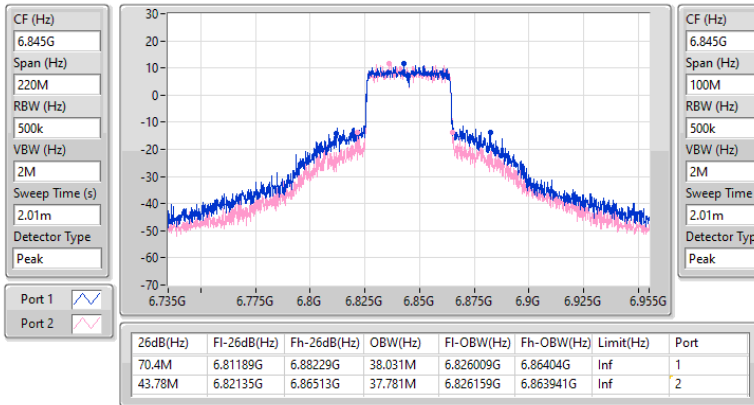


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6845MHz

14/03/2025

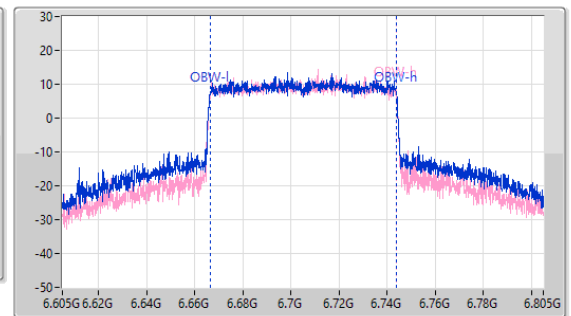
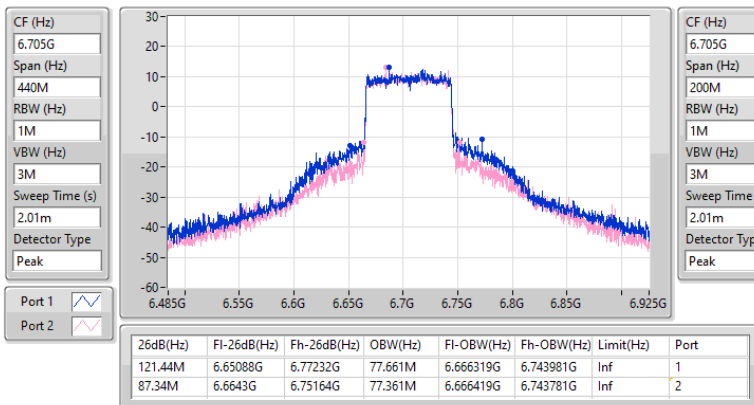


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6705MHz

14/03/2025

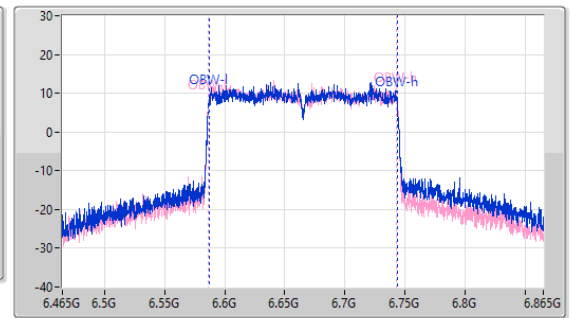
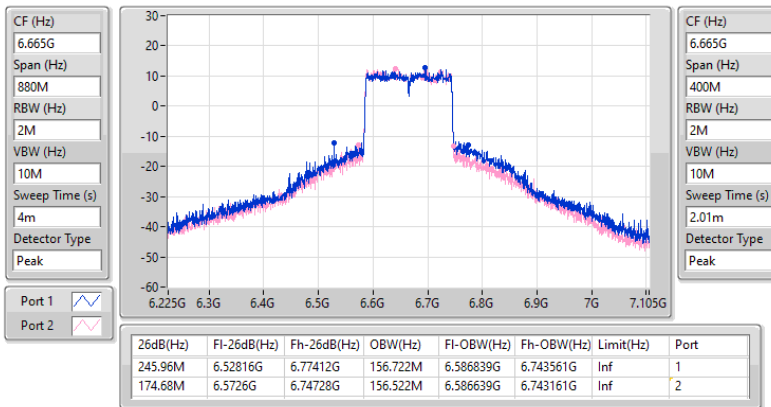


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6665MHz

14/03/2025



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	24.695M	19.115M	19M1D1D	20.9M	19.015M
802.11be EHT40_Nss2,(MCS0)_2TX	60.39M	37.831M	37M8D1D	40.04M	37.731M
802.11be EHT80_Nss2,(MCS0)_2TX	103.62M	77.461M	77M5D1D	81.18M	77.161M
802.11be EHT160_Nss2,(MCS0)_2TX	177.76M	156.522M	157MD1D	161.92M	155.722M
802.11be EHT320_Nss2,(MCS0)_2TX	438.24M	316.642M	317MD1D	326.48M	315.042M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	32.285M	19.165M	19M2D1D	20.9M	18.991M
802.11be EHT40_Nss2,(MCS0)_2TX	68.42M	37.981M	38M0D1D	39.6M	37.781M
802.11be EHT80_Nss2,(MCS0)_2TX	139.26M	77.761M	77M8D1D	81.4M	77.261M
802.11be EHT160_Nss2,(MCS0)_2TX	230.56M	156.722M	157MD1D	165.88M	156.522M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	24.695M	19.115M	21.34M	19.015M
6195MHz	Pass	Inf	21.01M	19.015M	20.9M	19.015M
6415MHz	Pass	Inf	21.615M	19.115M	22.77M	19.065M
6535MHz	Pass	Inf	21.505M	18.991M	20.9M	19.04M
6695MHz	Pass	Inf	32.285M	19.165M	26.455M	19.115M
6855MHz	Pass	Inf	23.32M	19.115M	23.485M	19.04M
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	55.66M	37.831M	41.03M	37.731M
6205MHz	Pass	Inf	60.39M	37.731M	40.04M	37.781M
6405MHz	Pass	Inf	40.37M	37.731M	41.25M	37.781M
6565MHz	Pass	Inf	39.6M	37.781M	39.71M	37.781M
6685MHz	Pass	Inf	63.58M	37.931M	55.99M	37.781M
6845MHz	Pass	Inf	68.42M	37.981M	50.16M	37.881M
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	103.62M	77.161M	90.64M	77.361M
6225MHz	Pass	Inf	94.6M	77.461M	83.16M	77.361M
6385MHz	Pass	Inf	82.06M	77.361M	81.18M	77.361M
6625MHz	Pass	Inf	89.54M	77.361M	85.14M	77.361M
6705MHz	Pass	Inf	116.82M	77.761M	81.4M	77.461M
6785MHz	Pass	Inf	139.26M	77.461M	84.04M	77.261M
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	170.28M	155.722M	177.76M	156.122M
6185MHz	Pass	Inf	161.92M	156.322M	162.36M	156.322M
6345MHz	Pass	Inf	168.96M	156.322M	163.24M	156.522M
6665MHz	Pass	Inf	230.56M	156.522M	165.88M	156.722M
802.11be EHT320_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	438.24M	316.642M	433.84M	315.842M
6265MHz	Pass	Inf	326.48M	315.042M	353.76M	315.442M

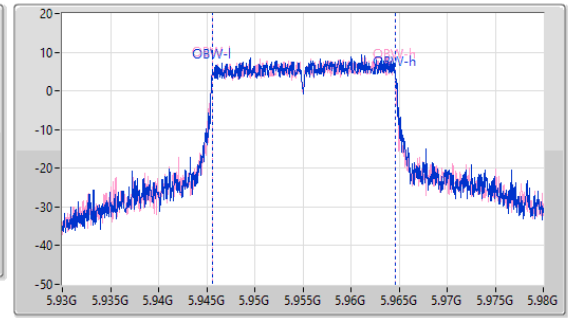
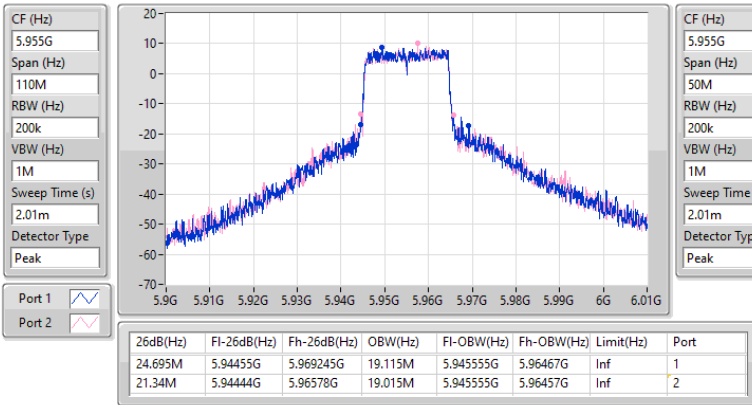
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

5955MHz

14/03/2025

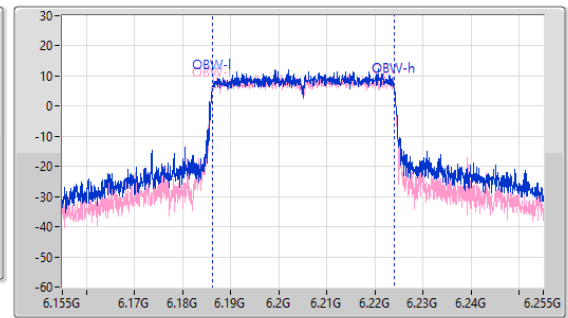
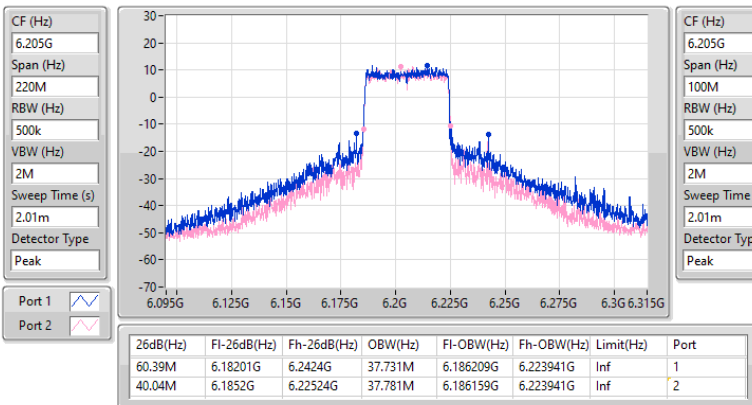


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6205MHz

14/03/2025

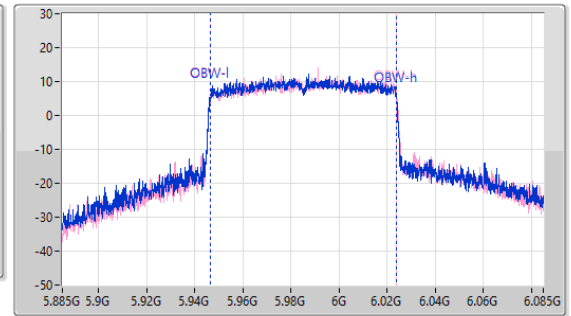
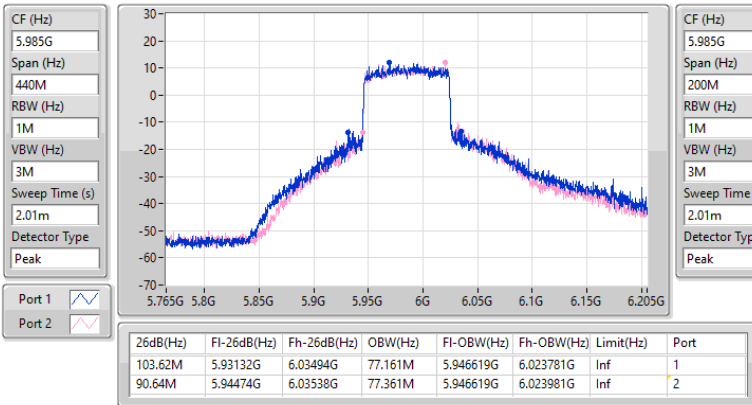


5.925-6.425GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

5985MHz

14/03/2025

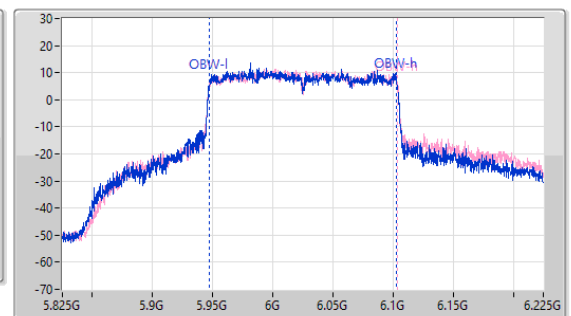
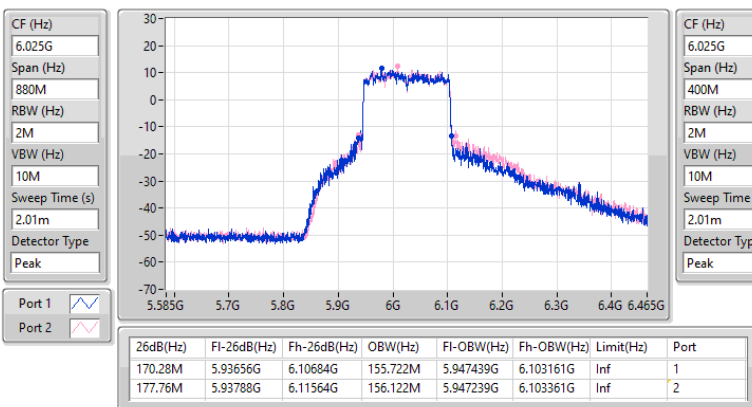


5.925-6.425GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6025MHz

14/03/2025

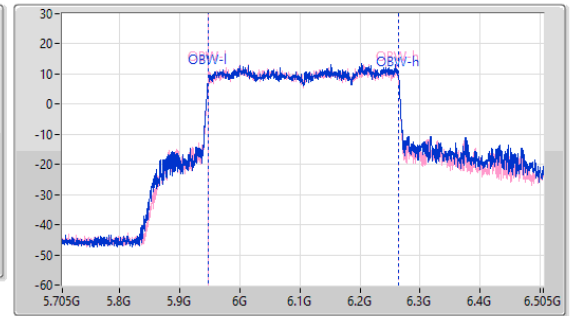
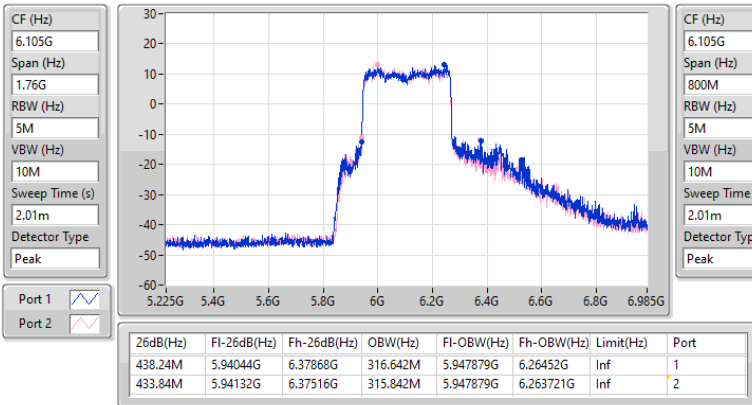


5.925-6.425GHz_802.11be EHT320_Nss2,(MCS0)_2TX

EBW

6105MHz

14/03/2025

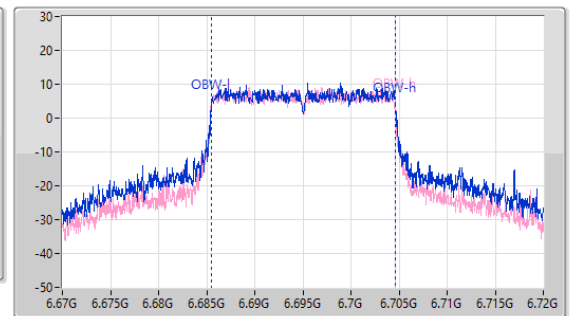
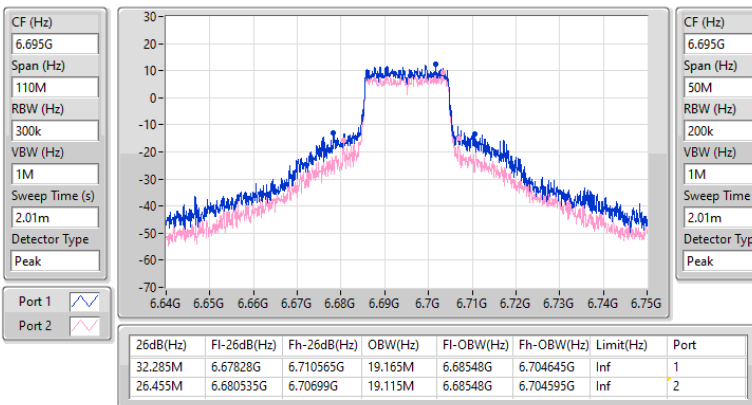


6.525-6.875GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

6695MHz

14/03/2025

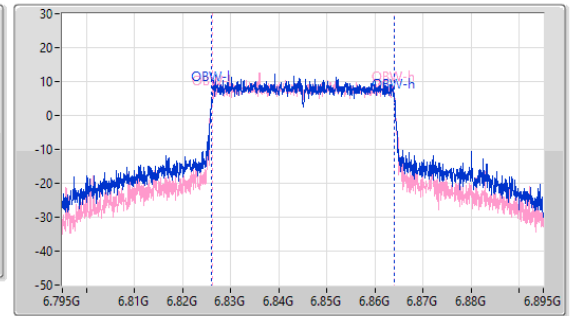
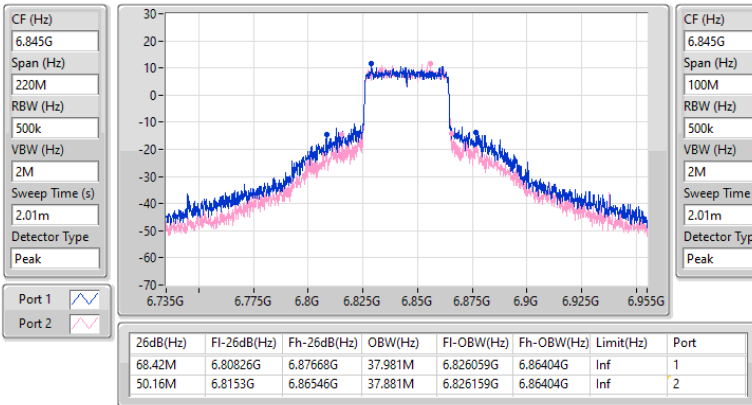


6.525-6.875GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6845MHz

14/03/2025

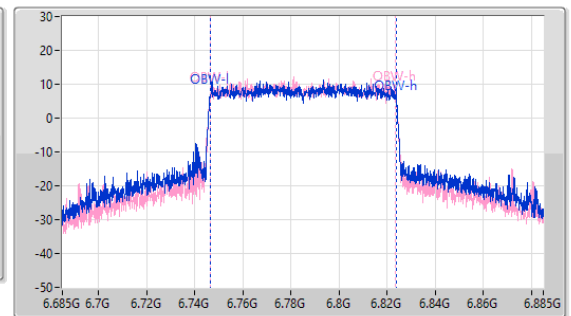
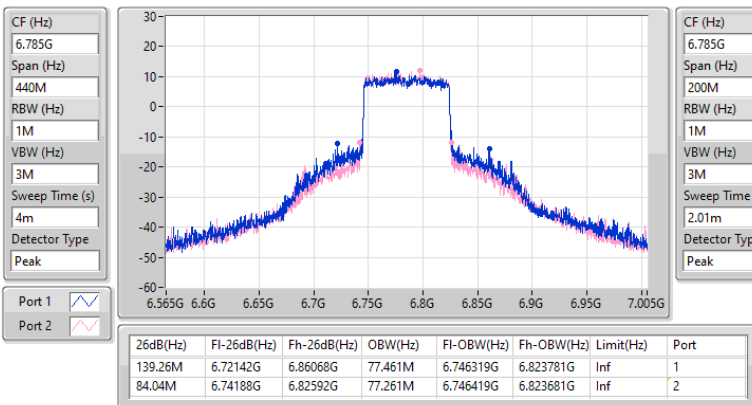


6.525-6.875GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

6785MHz

14/03/2025

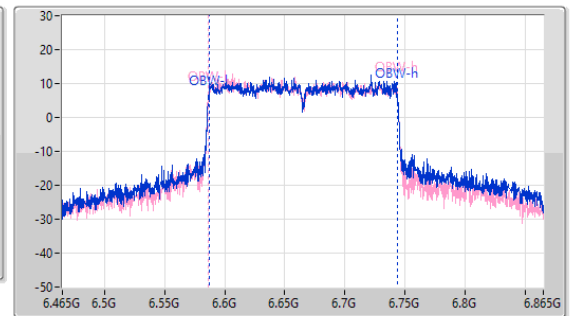
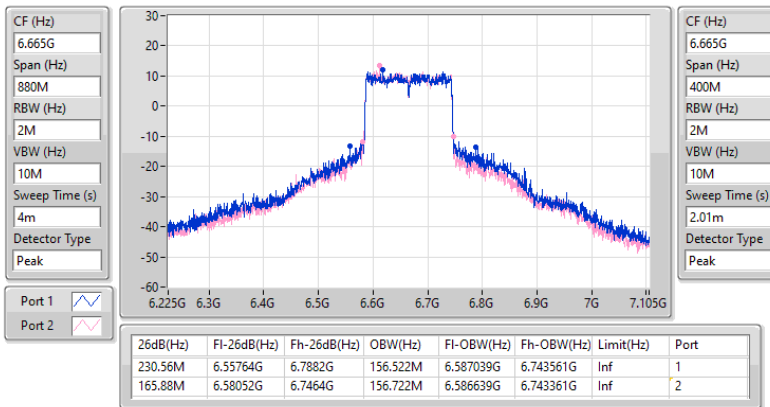


6.525-6.875GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6665MHz

14/03/2025





EBW_Non-Beamforming_Radio 3_ Dual-Polarized MIMO Panel Antenna_1T1S

Appendix B.4

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.23M	16.734M	16M7D1D	20.735M	16.69M
802.11be EHT20_Nss1,(MCS0)_1TX	21.395M	19.09M	19M1D1D	21.065M	19.065M
802.11be EHT40_Nss1,(MCS0)_1TX	49.39M	37.881M	37M9D1D	40.48M	37.781M
802.11be EHT80_Nss1,(MCS0)_1TX	90.2M	77.361M	77M4D1D	81.18M	77.261M
802.11be EHT160_Nss1,(MCS0)_1TX	173.36M	156.522M	157MD1D	161.92M	155.922M
802.11be EHT320_Nss1,(MCS0)_1TX	327.36M	316.242M	316MD1D	324.72M	314.643M
6.525-6.875GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	25.135M	16.866M	16M9D1D	21.23M	16.734M
802.11be EHT20_Nss1,(MCS0)_1TX	29.7M	19.165M	19M2D1D	21.34M	19.04M
802.11be EHT40_Nss1,(MCS0)_1TX	60.39M	37.931M	37M9D1D	40.04M	37.731M
802.11be EHT80_Nss1,(MCS0)_1TX	117.7M	77.661M	77M7D1D	97.02M	77.461M
802.11be EHT160_Nss1,(MCS0)_1TX	249.04M	156.922M	157MD1D	249.04M	156.922M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth



EBW_Non-Beamforming_Radio 3_ Dual-Polarized MIMO Panel Antenna_1T1S

Appendix B.4

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5955MHz	Pass	Inf	21.23M	16.734M
6195MHz	Pass	Inf	20.79M	16.69M
6415MHz	Pass	Inf	20.735M	16.69M
6535MHz	Pass	Inf	21.23M	16.734M
6695MHz	Pass	Inf	24.805M	16.866M
6855MHz	Pass	Inf	25.135M	16.844M
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-
5955MHz	Pass	Inf	21.395M	19.09M
6195MHz	Pass	Inf	21.065M	19.09M
6415MHz	Pass	Inf	21.065M	19.065M
6535MHz	Pass	Inf	21.34M	19.04M
6695MHz	Pass	Inf	29.26M	19.165M
6855MHz	Pass	Inf	29.7M	19.115M
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-
5965MHz	Pass	Inf	49.39M	37.881M
6205MHz	Pass	Inf	47.63M	37.781M
6405MHz	Pass	Inf	40.48M	37.781M
6565MHz	Pass	Inf	40.04M	37.731M
6685MHz	Pass	Inf	60.39M	37.931M
6845MHz	Pass	Inf	53.57M	37.931M
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-
5985MHz	Pass	Inf	90.2M	77.261M
6225MHz	Pass	Inf	82.06M	77.361M
6385MHz	Pass	Inf	81.18M	77.261M
6625MHz	Pass	Inf	105.82M	77.561M
6705MHz	Pass	Inf	117.7M	77.661M
6785MHz	Pass	Inf	97.02M	77.461M
802.11be EHT160_Nss1,(MCS0)_1TX	-	-	-	-
6025MHz	Pass	Inf	161.92M	155.922M
6185MHz	Pass	Inf	162.36M	156.322M
6345MHz	Pass	Inf	173.36M	156.522M
6665MHz	Pass	Inf	249.04M	156.922M
802.11be EHT320_Nss1,(MCS0)_1TX	-	-	-	-
6105MHz	Pass	Inf	324.72M	316.242M
6265MHz	Pass	Inf	327.36M	314.643M

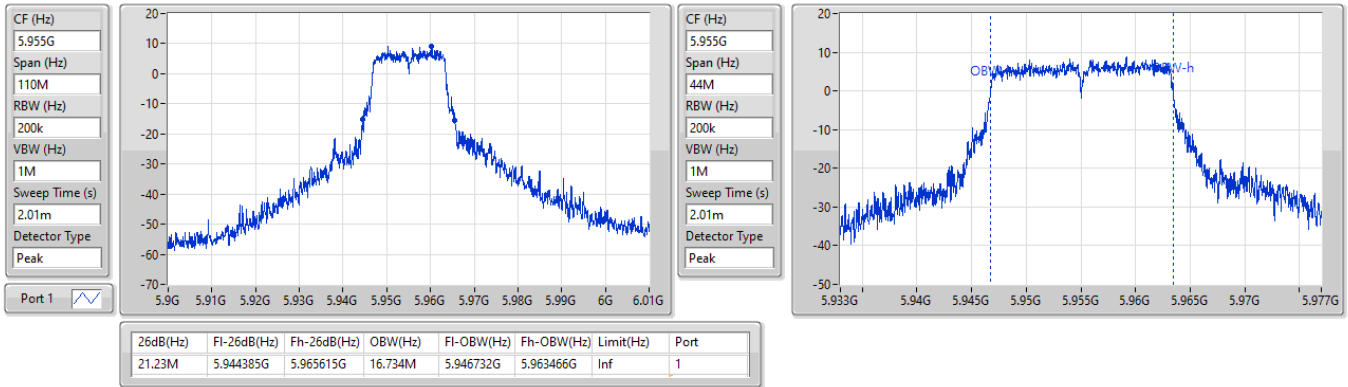
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5955MHz

14/03/2025

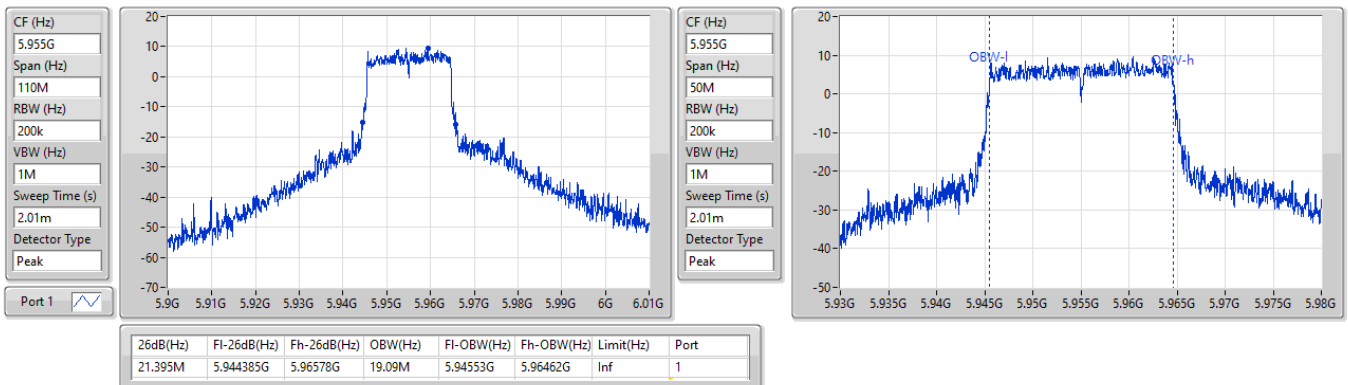


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

5955MHz

14/03/2025

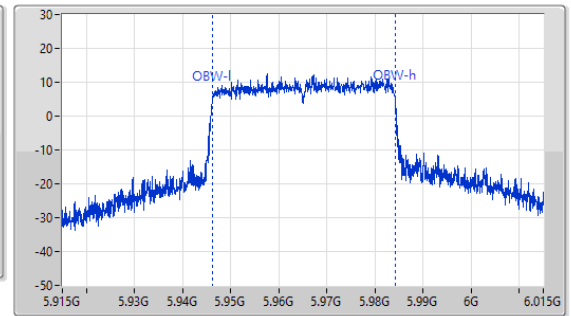
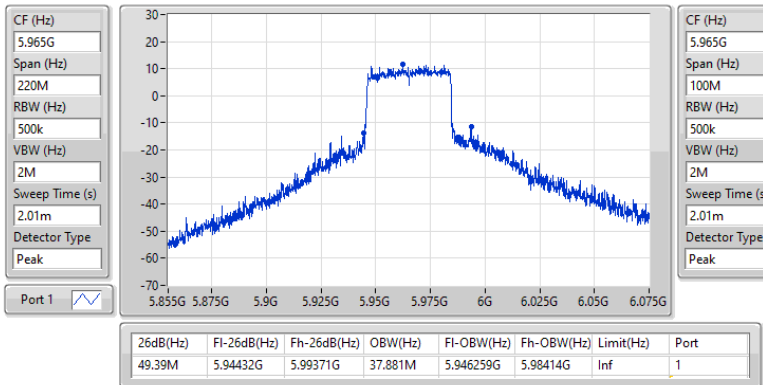


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5965MHz

14/03/2025

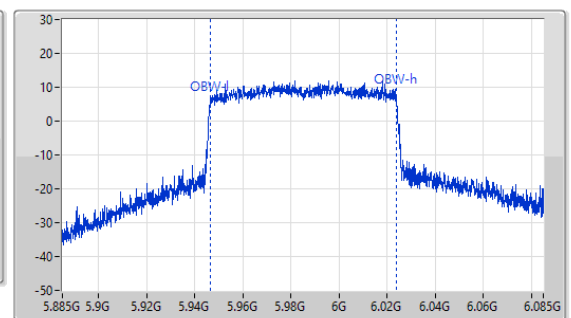
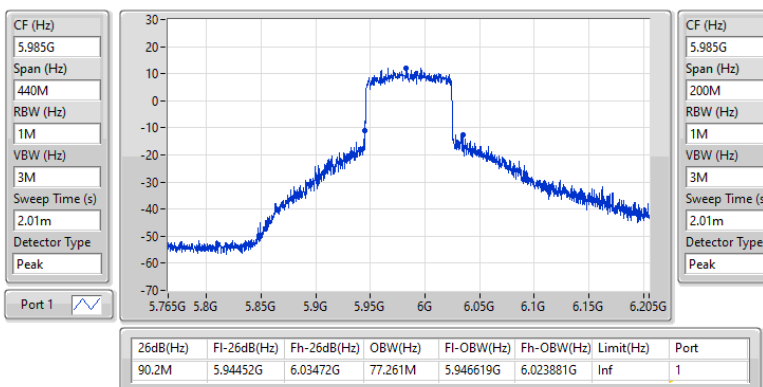


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5985MHz

14/03/2025

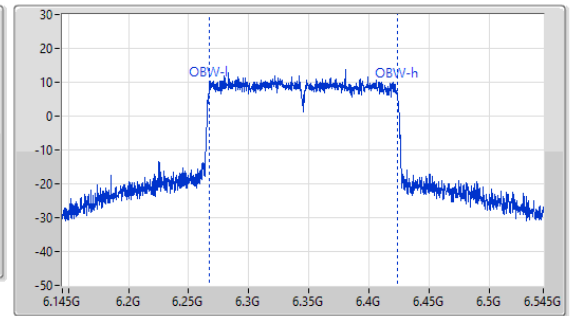
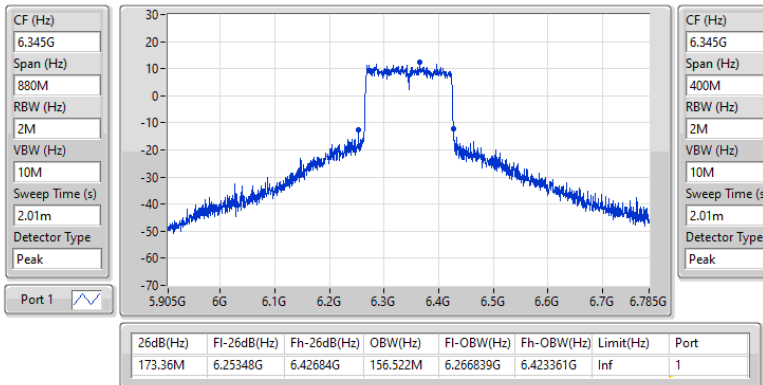


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6345MHz

14/03/2025

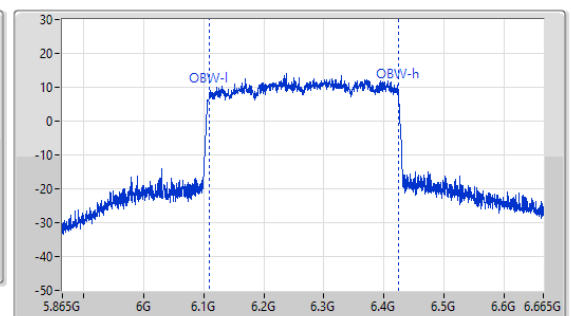
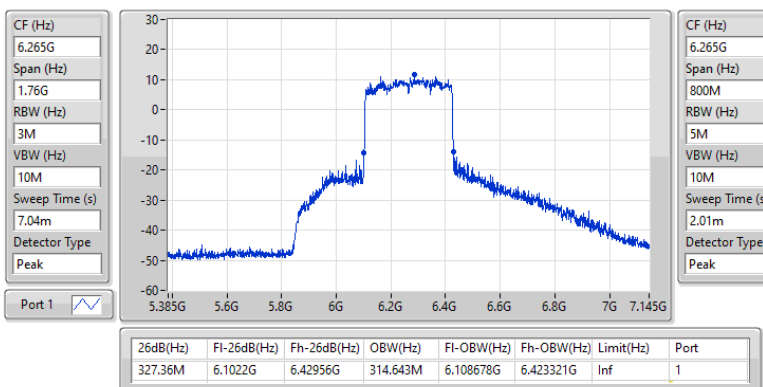


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6265MHz

14/03/2025

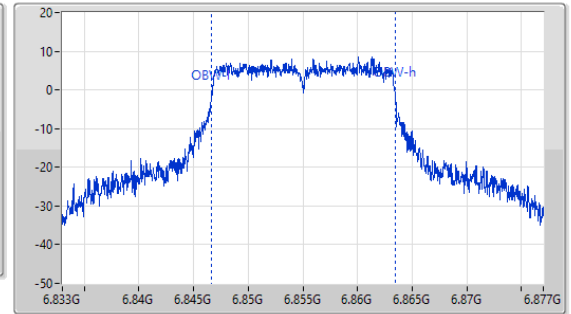
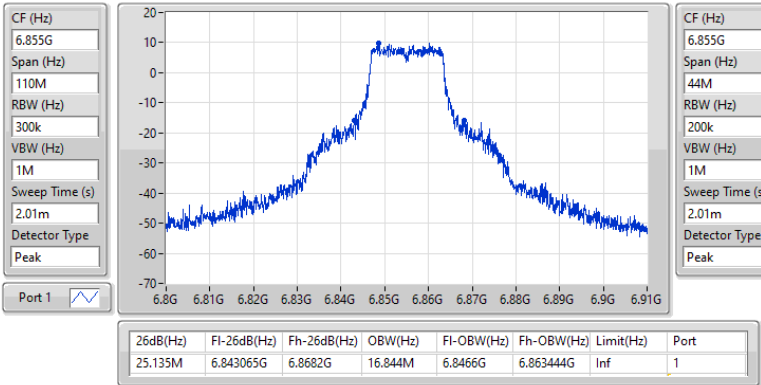


6.525-6.875GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

6855MHz

14/03/2025

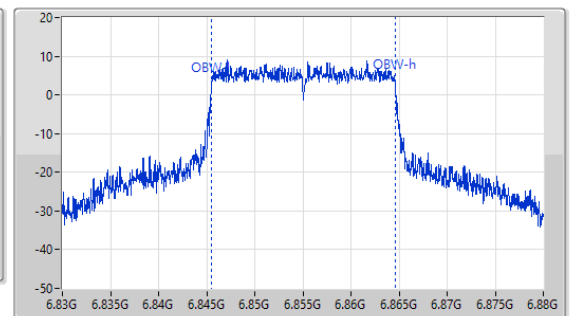
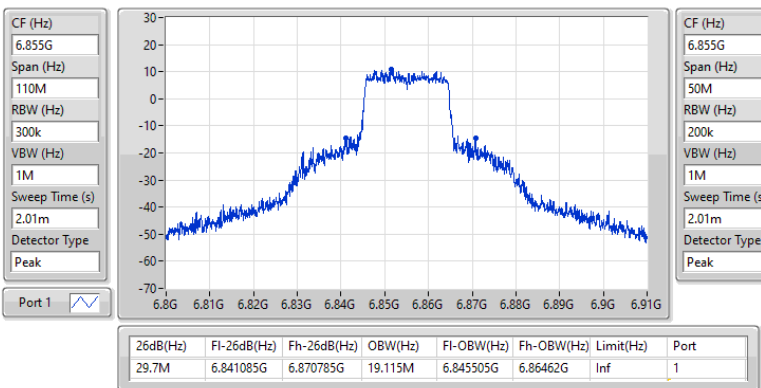


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6855MHz

14/03/2025

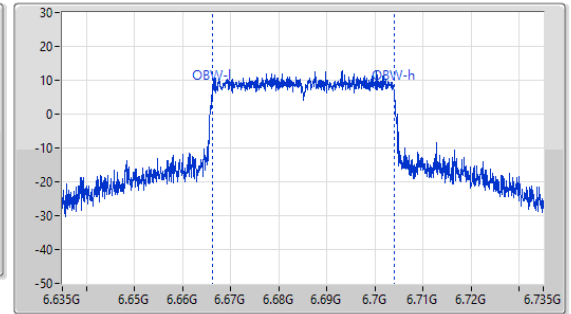
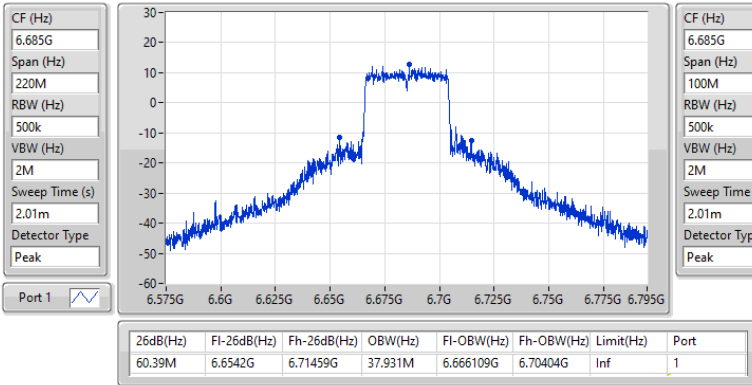


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6685MHz

14/03/2025

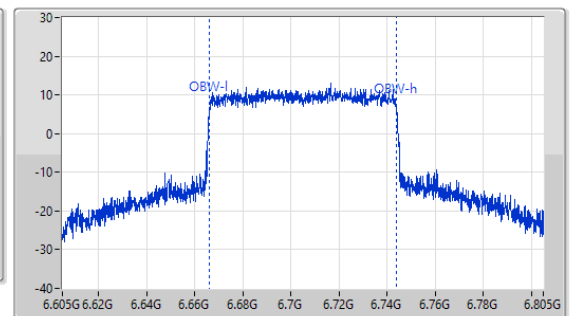
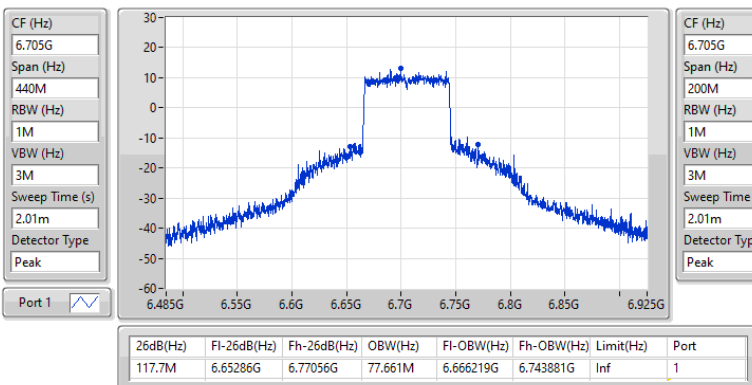


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6705MHz

14/03/2025

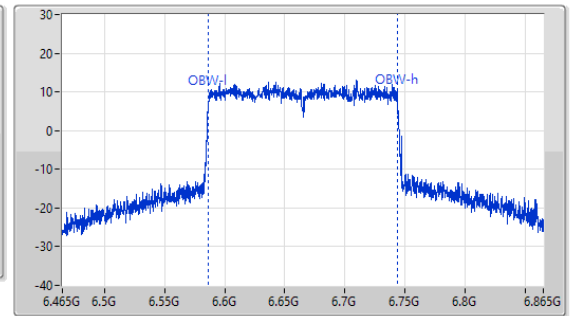
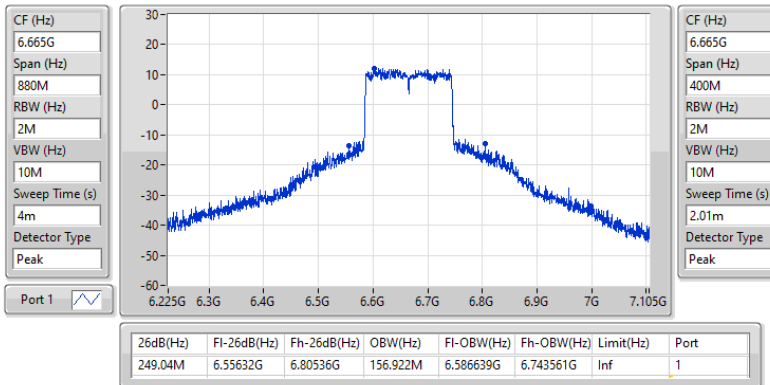


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6665MHz

14/03/2025





EBW_Non-Beamforming_Radio 3_ Dual-Polarized MIMO Panel Antenna_2T1S

Appendix B.5

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.165M	16.8M	16M8D1D	20.735M	16.69M
802.11be EHT20_Nss1,(MCS0)_2TX	26.73M	19.065M	19M1D1D	21.12M	19.015M
802.11be EHT40_Nss1,(MCS0)_2TX	52.03M	37.831M	37M8D1D	40.04M	37.681M
802.11be EHT80_Nss1,(MCS0)_2TX	97.02M	77.361M	77M4D1D	81.18M	77.161M
802.11be EHT160_Nss1,(MCS0)_2TX	212.08M	156.522M	157MD1D	162.8M	155.722M
802.11be EHT320_Nss1,(MCS0)_2TX	379.28M	315.842M	316MD1D	326.48M	315.042M
6.525-6.875GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	29.59M	17.063M	17M1D1D	20.955M	16.712M
802.11be EHT20_Nss1,(MCS0)_2TX	31.13M	19.19M	19M2D1D	21.01M	19.015M
802.11be EHT40_Nss1,(MCS0)_2TX	70.4M	38.031M	38M0D1D	39.38M	37.681M
802.11be EHT80_Nss1,(MCS0)_2TX	121.44M	77.661M	77M7D1D	80.74M	77.161M
802.11be EHT160_Nss1,(MCS0)_2TX	245.96M	156.722M	157MD1D	174.68M	156.522M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth



EBW_Non-Beamforming_Radio 3_ Dual-Polarized MIMO Panel Antenna_2T1S

Appendix B.5

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	20.845M	16.8M	22.055M	16.712M
6195MHz	Pass	Inf	21.175M	16.734M	20.735M	16.69M
6415MHz	Pass	Inf	20.955M	16.69M	22.165M	16.734M
6535MHz	Pass	Inf	21.01M	16.734M	20.955M	16.734M
6695MHz	Pass	Inf	28.435M	17.063M	21.175M	16.734M
6855MHz	Pass	Inf	29.59M	16.976M	21.615M	16.712M
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	25.355M	19.065M	25.74M	19.015M
6195MHz	Pass	Inf	26.73M	19.04M	21.23M	19.04M
6415MHz	Pass	Inf	21.12M	19.04M	23.54M	19.015M
6535MHz	Pass	Inf	21.01M	19.015M	21.615M	19.09M
6695MHz	Pass	Inf	31.13M	19.14M	30.305M	19.065M
6855MHz	Pass	Inf	26.84M	19.19M	21.67M	19.065M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	52.03M	37.831M	44.77M	37.731M
6205MHz	Pass	Inf	41.69M	37.781M	42.57M	37.731M
6405MHz	Pass	Inf	40.04M	37.681M	40.26M	37.831M
6565MHz	Pass	Inf	40.04M	37.731M	39.38M	37.681M
6685MHz	Pass	Inf	51.92M	37.931M	41.25M	37.731M
6845MHz	Pass	Inf	70.4M	38.031M	43.78M	37.781M
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	91.08M	77.161M	97.02M	77.161M
6225MHz	Pass	Inf	83.16M	77.361M	81.84M	77.261M
6385MHz	Pass	Inf	81.18M	77.261M	81.18M	77.161M
6625MHz	Pass	Inf	104.94M	77.661M	80.96M	77.161M
6705MHz	Pass	Inf	121.44M	77.661M	87.34M	77.361M
6785MHz	Pass	Inf	118.8M	77.561M	80.74M	77.361M
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	165M	155.922M	212.08M	155.722M
6185MHz	Pass	Inf	164.56M	156.522M	164.12M	156.322M
6345MHz	Pass	Inf	176.88M	156.522M	162.8M	156.122M
6665MHz	Pass	Inf	245.96M	156.722M	174.68M	156.522M
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	379.28M	315.842M	326.48M	315.442M
6265MHz	Pass	Inf	327.36M	315.042M	326.48M	315.442M

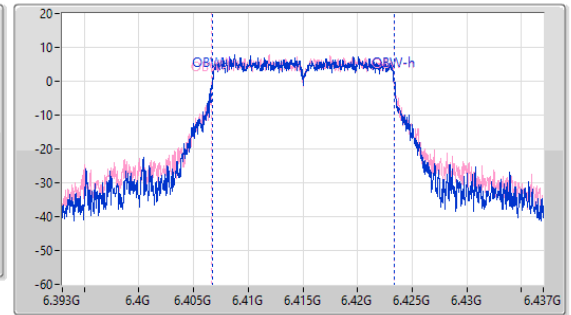
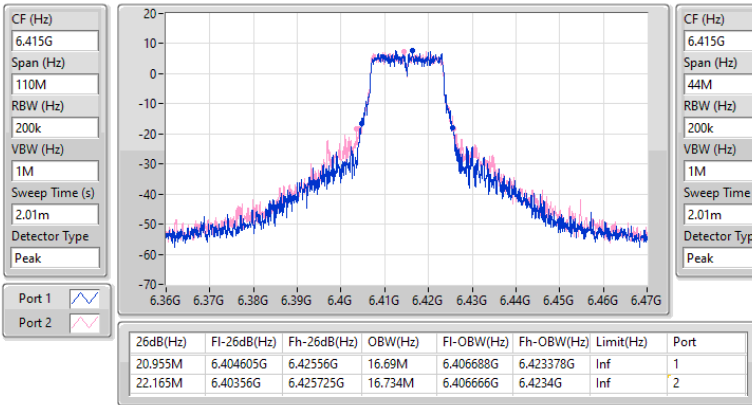
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6415MHz

14/03/2025

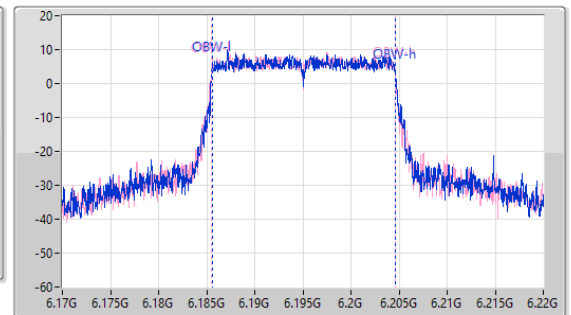
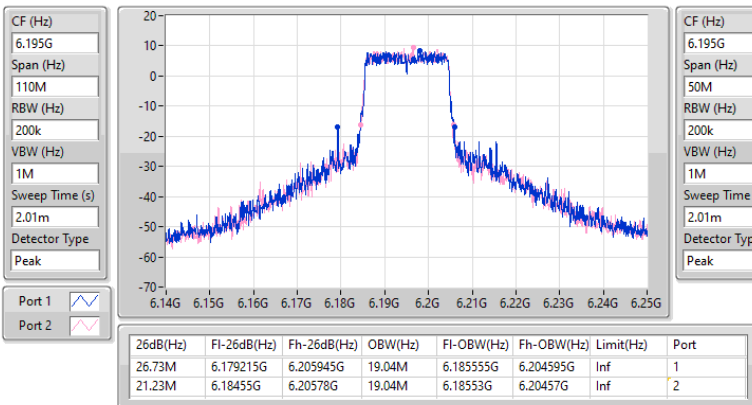


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6195MHz

14/03/2025

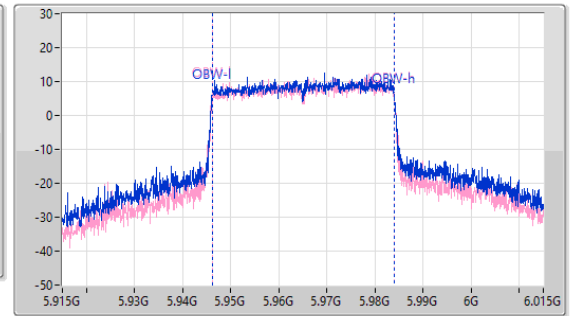
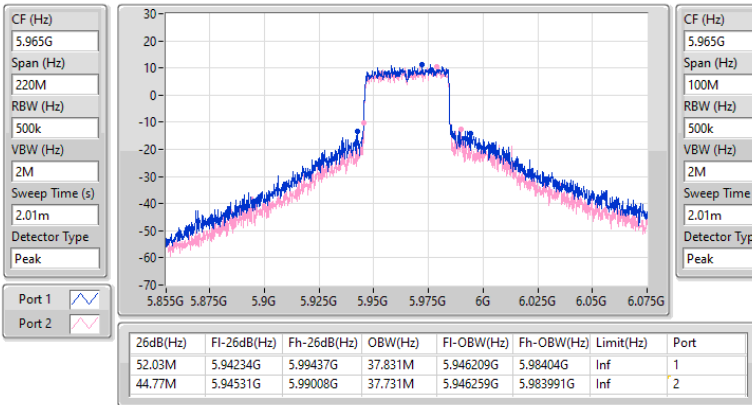


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5965MHz

14/03/2025

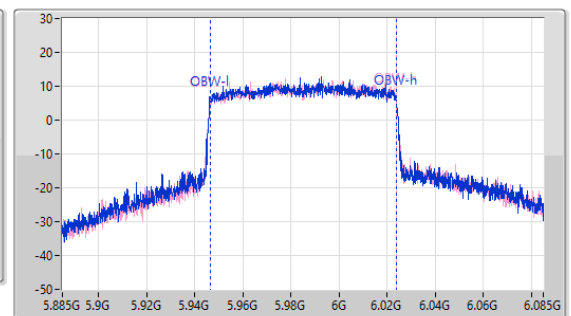
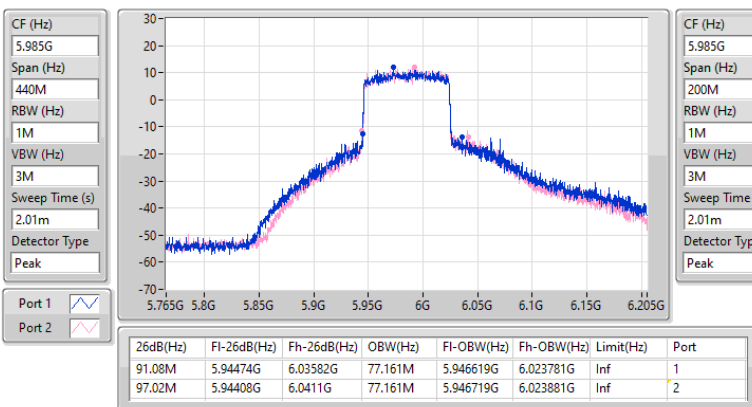


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5985MHz

14/03/2025

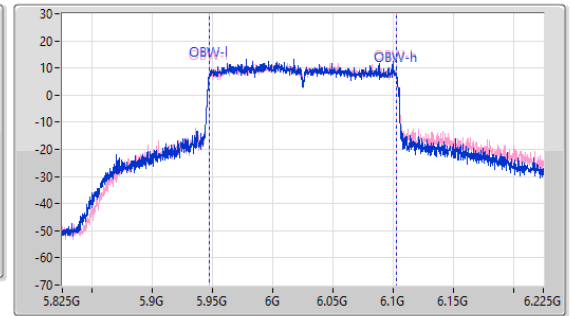
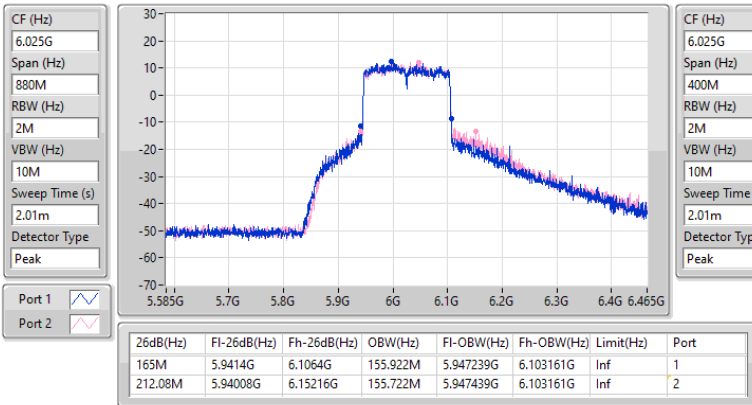


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6025MHz

14/03/2025

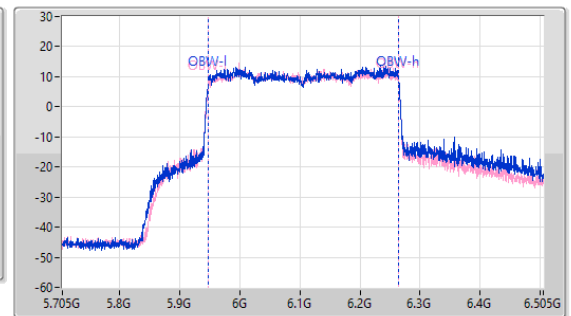
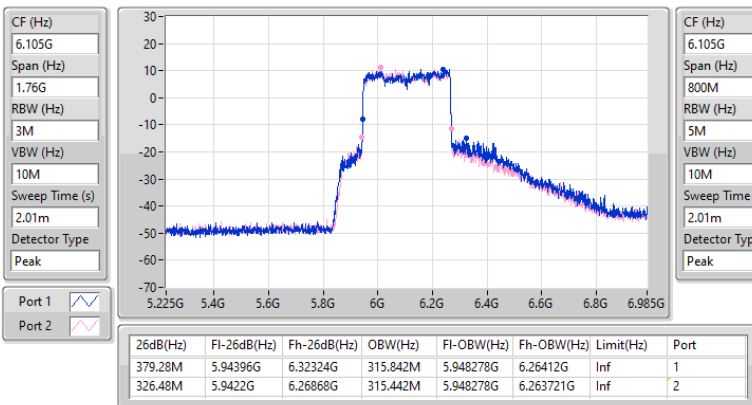


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6105MHz

14/03/2025

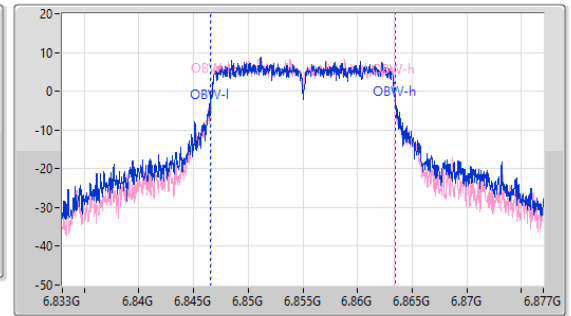
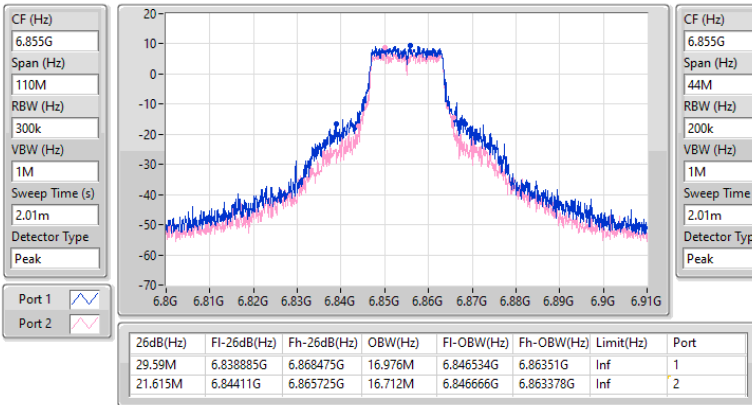


6.525-6.875GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6855MHz

14/03/2025

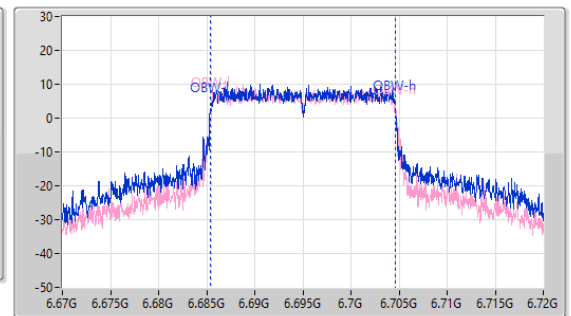
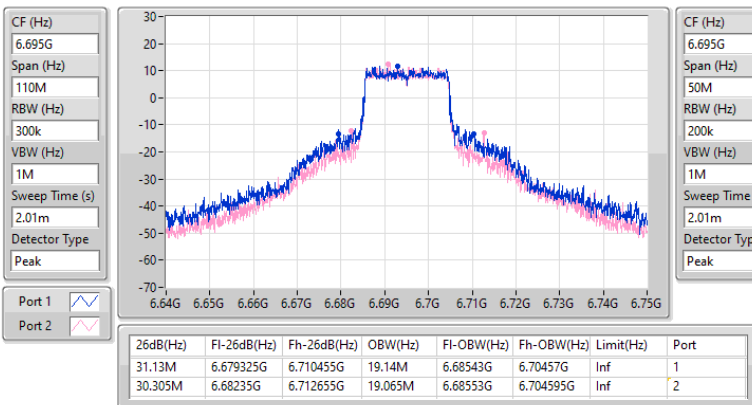


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6695MHz

14/03/2025

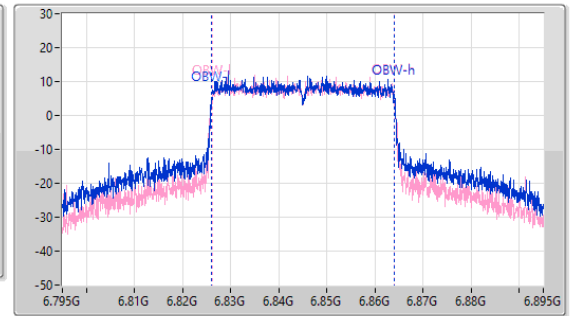
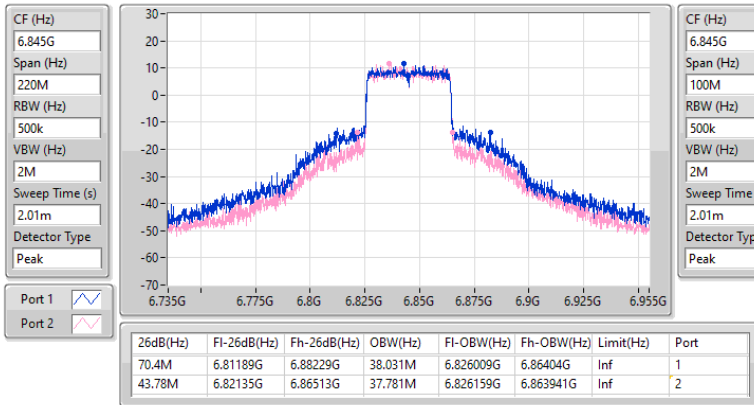


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6845MHz

14/03/2025

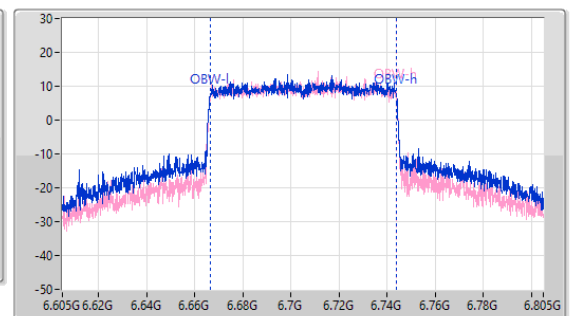
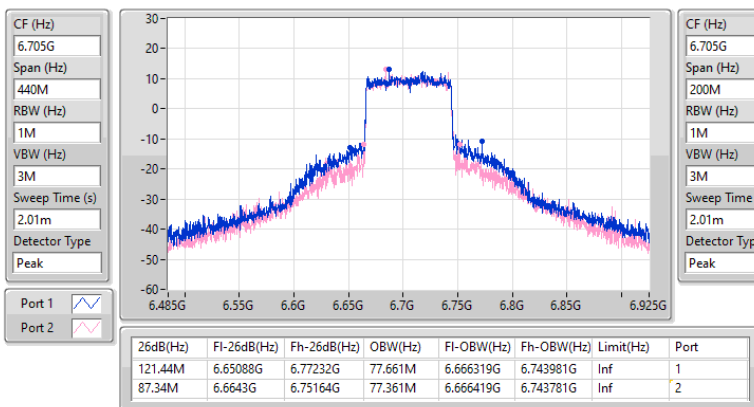


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6705MHz

14/03/2025

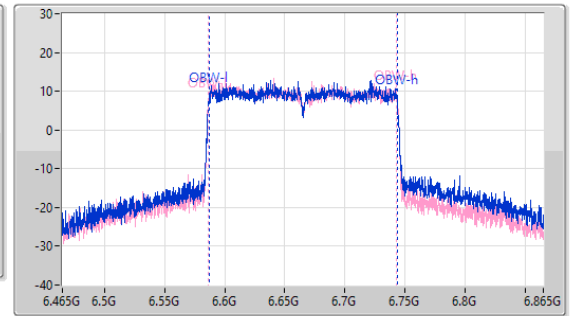
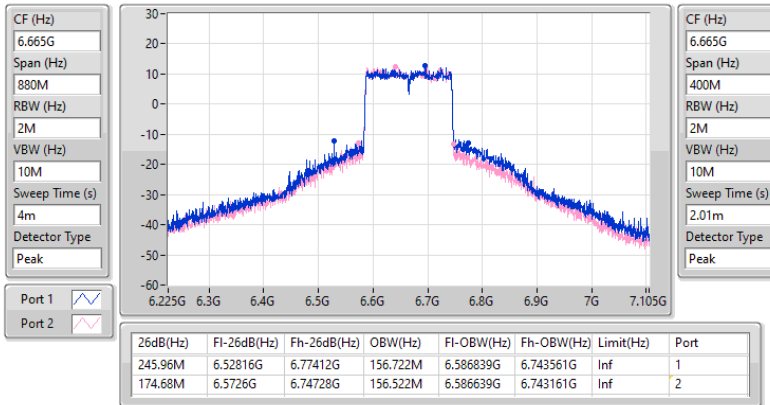


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6665MHz

14/03/2025





EBW_Non-Beamforming_Radio 3_ Dual-Polarized MIMO Panel Antenna_2T2S

Appendix B.6

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	24.695M	19.115M	19M1D1D	20.9M	19.015M
802.11be EHT40_Nss2,(MCS0)_2TX	60.39M	37.831M	37M8D1D	40.04M	37.731M
802.11be EHT80_Nss2,(MCS0)_2TX	103.62M	77.461M	77M5D1D	81.18M	77.161M
802.11be EHT160_Nss2,(MCS0)_2TX	177.76M	156.522M	157MD1D	161.92M	155.722M
802.11be EHT320_Nss2,(MCS0)_2TX	438.24M	316.642M	317MD1D	326.48M	315.042M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	32.285M	19.165M	19M2D1D	20.9M	18.991M
802.11be EHT40_Nss2,(MCS0)_2TX	68.42M	37.981M	38M0D1D	39.6M	37.781M
802.11be EHT80_Nss2,(MCS0)_2TX	139.26M	77.761M	77M8D1D	81.4M	77.261M
802.11be EHT160_Nss2,(MCS0)_2TX	230.56M	156.722M	157MD1D	165.88M	156.522M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	24.695M	19.115M	21.34M	19.015M
6195MHz	Pass	Inf	21.01M	19.015M	20.9M	19.015M
6415MHz	Pass	Inf	21.615M	19.115M	22.77M	19.065M
6535MHz	Pass	Inf	21.505M	18.991M	20.9M	19.04M
6695MHz	Pass	Inf	32.285M	19.165M	26.455M	19.115M
6855MHz	Pass	Inf	23.32M	19.115M	23.485M	19.04M
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	55.66M	37.831M	41.03M	37.731M
6205MHz	Pass	Inf	60.39M	37.731M	40.04M	37.781M
6405MHz	Pass	Inf	40.37M	37.731M	41.25M	37.781M
6565MHz	Pass	Inf	39.6M	37.781M	39.71M	37.781M
6685MHz	Pass	Inf	63.58M	37.931M	55.99M	37.781M
6845MHz	Pass	Inf	68.42M	37.981M	50.16M	37.881M
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	103.62M	77.161M	90.64M	77.361M
6225MHz	Pass	Inf	94.6M	77.461M	83.16M	77.361M
6385MHz	Pass	Inf	82.06M	77.361M	81.18M	77.361M
6625MHz	Pass	Inf	89.54M	77.361M	85.14M	77.361M
6705MHz	Pass	Inf	116.82M	77.761M	81.4M	77.461M
6785MHz	Pass	Inf	139.26M	77.461M	84.04M	77.261M
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	170.28M	155.722M	177.76M	156.122M
6185MHz	Pass	Inf	161.92M	156.322M	162.36M	156.322M
6345MHz	Pass	Inf	168.96M	156.322M	163.24M	156.522M
6665MHz	Pass	Inf	230.56M	156.522M	165.88M	156.722M
802.11be EHT320_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	438.24M	316.642M	433.84M	315.842M
6265MHz	Pass	Inf	326.48M	315.042M	353.76M	315.442M

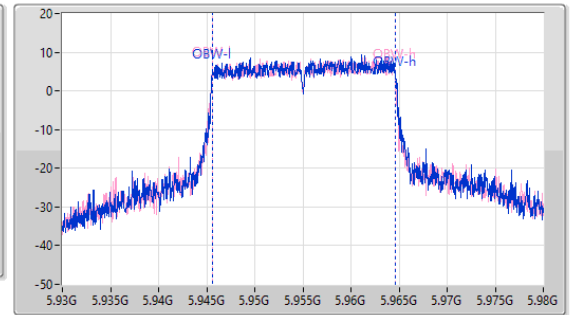
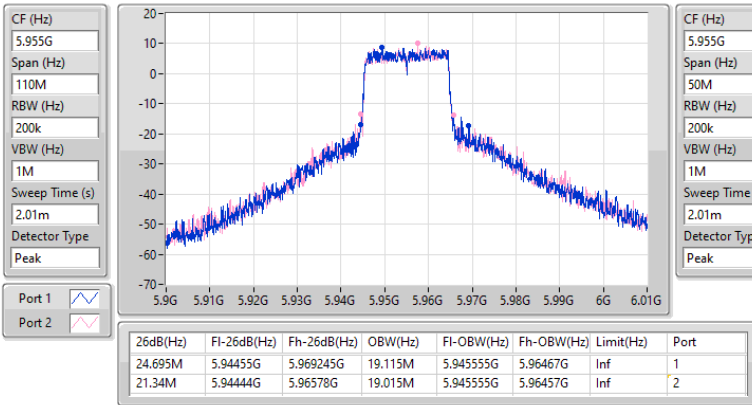
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

5955MHz

14/03/2025

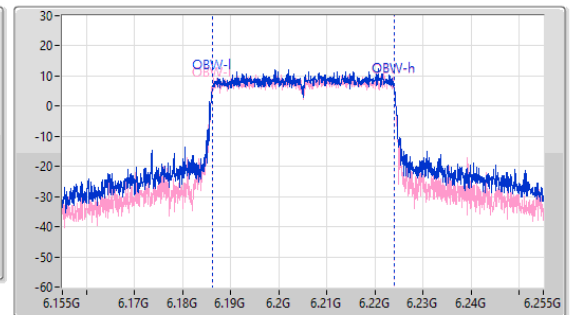
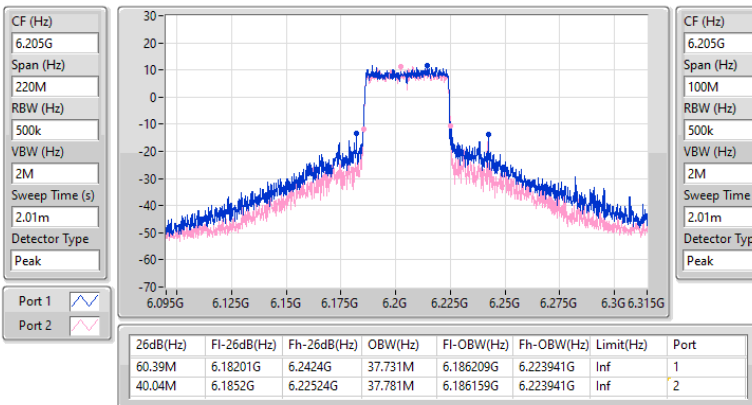


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6205MHz

14/03/2025

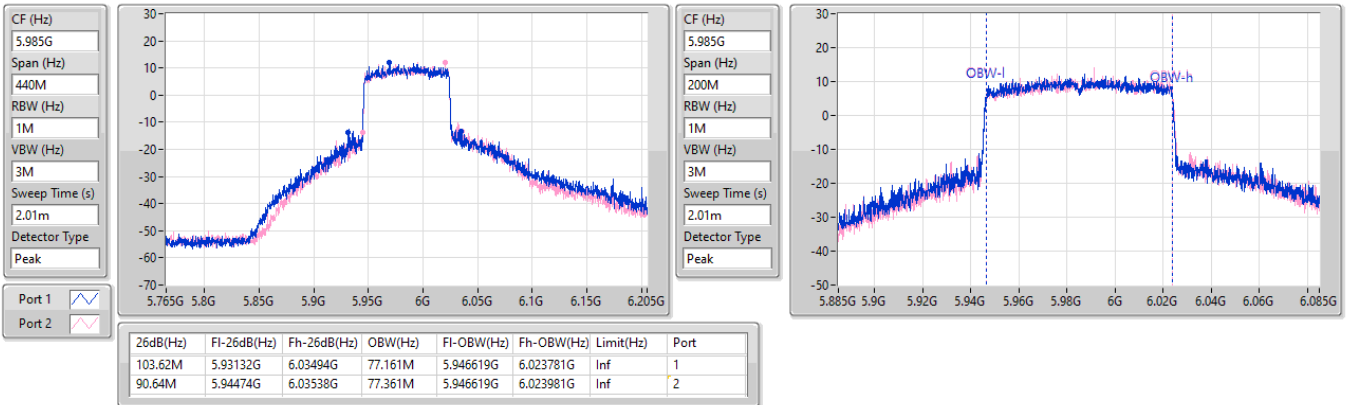


5.925-6.425GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

5985MHz

14/03/2025

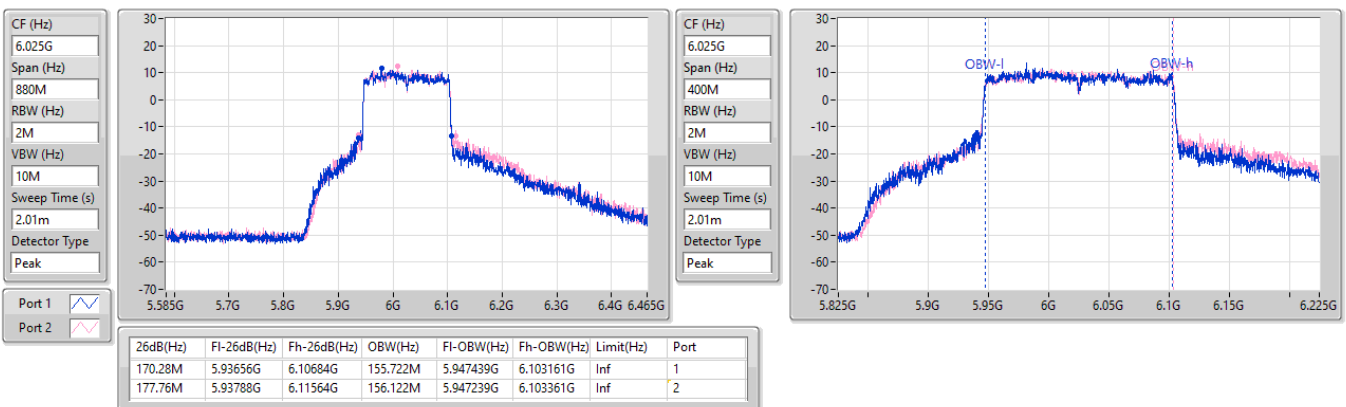


5.925-6.425GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6025MHz

14/03/2025

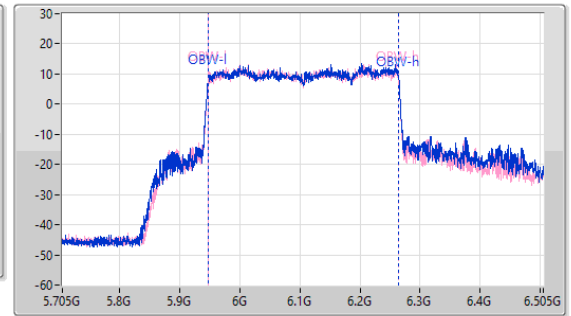
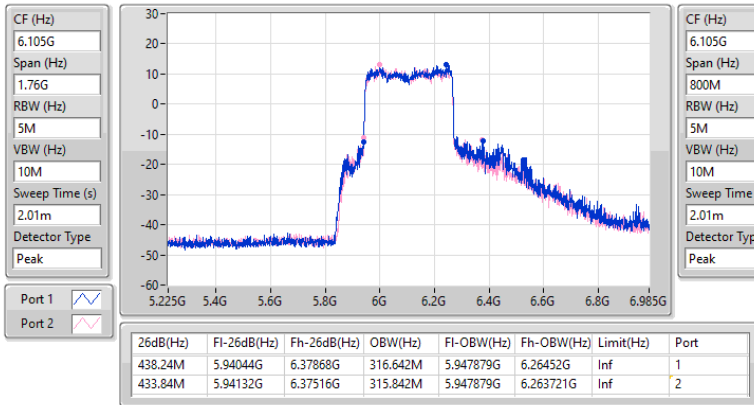


5.925-6.425GHz_802.11be EHT320_Nss2,(MCS0)_2TX

EBW

6105MHz

14/03/2025

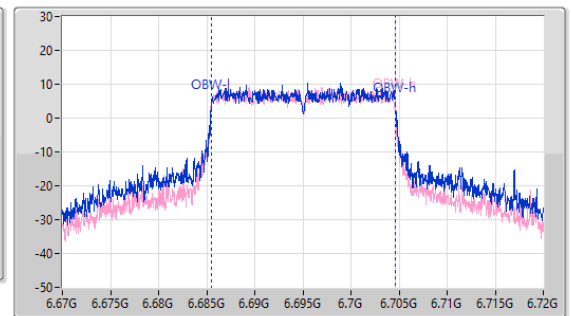
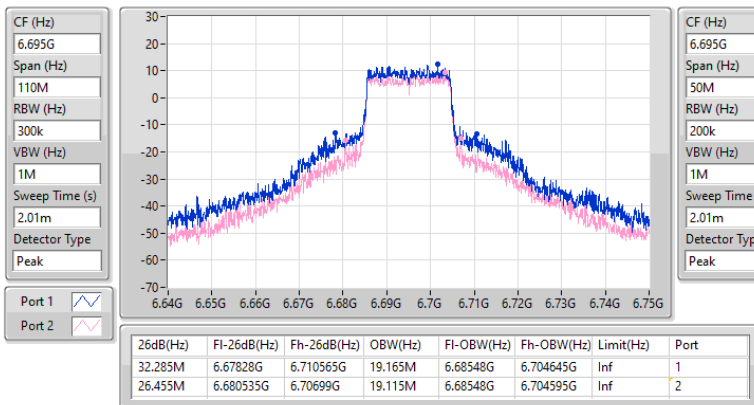


6.525-6.875GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

6695MHz

14/03/2025

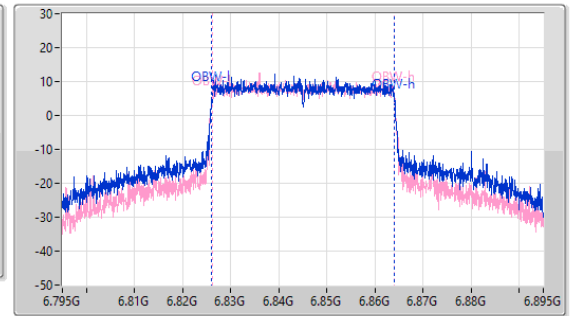
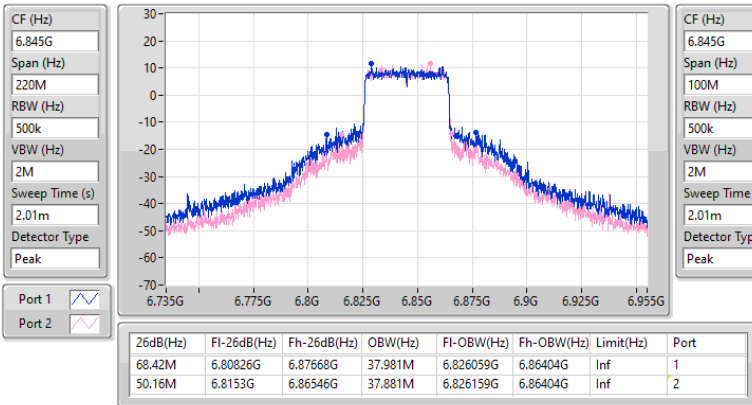


6.525-6.875GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6845MHz

14/03/2025

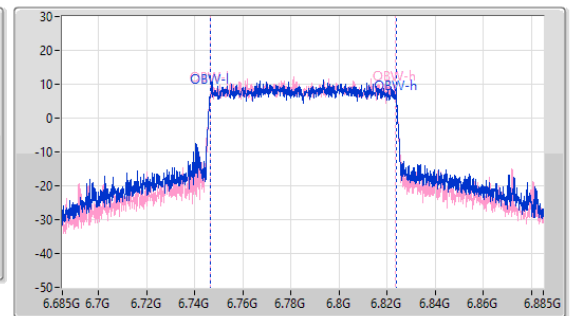
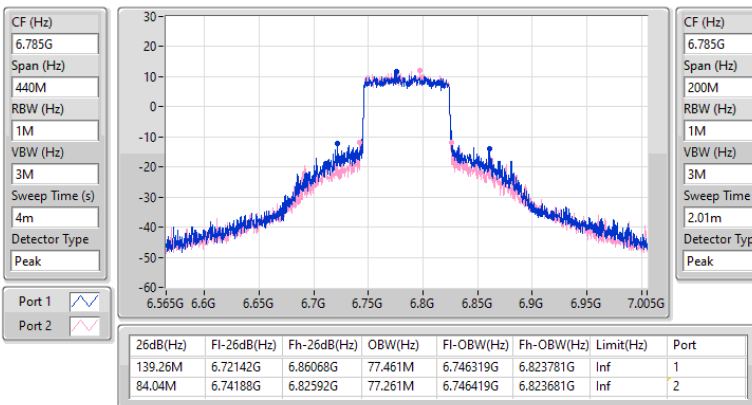


6.525-6.875GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

6785MHz

14/03/2025

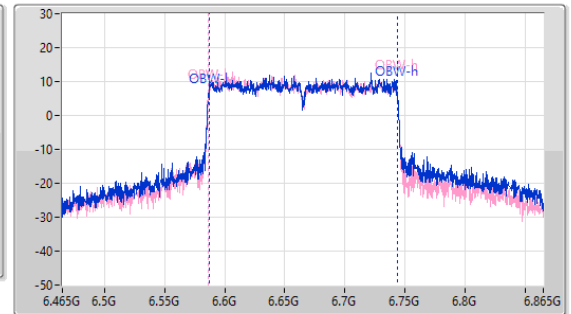
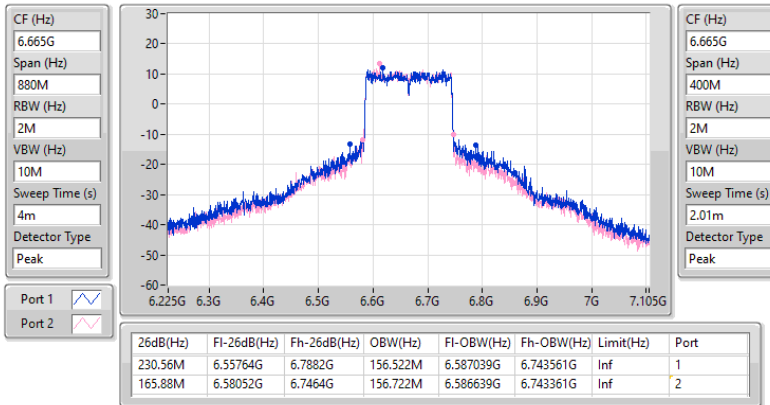


6.525-6.875GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6665MHz

14/03/2025



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	22.165M	16.756M	16M8D1D	21.23M	16.69M
802.11be EHT20_Nss1,(MCS0)_1TX	21.725M	19.065M	19M1D1D	21.065M	19.04M
802.11be EHT40_Nss1,(MCS0)_1TX	48.07M	37.831M	37M8D1D	39.38M	37.681M
802.11be EHT80_Nss1,(MCS0)_1TX	92.4M	77.261M	77M3D1D	82.28M	77.061M
802.11be EHT160_Nss1,(MCS0)_1TX	164.12M	156.522M	157MD1D	162.8M	156.322M
802.11be EHT320_Nss1,(MCS0)_1TX	420.64M	315.842M	316MD1D	326.48M	314.643M
6.525-6.875GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	24.75M	16.976M	17M0D1D	20.79M	16.734M
802.11be EHT20_Nss1,(MCS0)_1TX	27.06M	19.165M	19M2D1D	21.34M	19.065M
802.11be EHT40_Nss1,(MCS0)_1TX	70.73M	37.881M	37M9D1D	40.48M	37.781M
802.11be EHT80_Nss1,(MCS0)_1TX	119.46M	77.561M	77M6D1D	82.72M	77.261M
802.11be EHT160_Nss1,(MCS0)_1TX	190.08M	156.922M	157MD1D	190.08M	156.922M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5955MHz	Pass	Inf	22.165M	16.756M
6195MHz	Pass	Inf	21.23M	16.756M
6415MHz	Pass	Inf	21.23M	16.69M
6535MHz	Pass	Inf	20.79M	16.734M
6695MHz	Pass	Inf	24.75M	16.976M
6855MHz	Pass	Inf	24.09M	16.954M
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-
5955MHz	Pass	Inf	21.175M	19.065M
6195MHz	Pass	Inf	21.065M	19.04M
6415MHz	Pass	Inf	21.725M	19.04M
6535MHz	Pass	Inf	21.34M	19.065M
6695MHz	Pass	Inf	23.595M	19.165M
6855MHz	Pass	Inf	27.06M	19.14M
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-
5965MHz	Pass	Inf	48.07M	37.831M
6205MHz	Pass	Inf	39.38M	37.831M
6405MHz	Pass	Inf	40.15M	37.681M
6565MHz	Pass	Inf	40.48M	37.781M
6685MHz	Pass	Inf	70.73M	37.881M
6845MHz	Pass	Inf	53.68M	37.881M
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-	-
5985MHz	Pass	Inf	92.4M	77.061M
6225MHz	Pass	Inf	88.44M	77.261M
6385MHz	Pass	Inf	82.28M	77.061M
6625MHz	Pass	Inf	82.72M	77.261M
6705MHz	Pass	Inf	119.46M	77.561M
6785MHz	Pass	Inf	105.6M	77.561M
802.11be EHT160_Nss1,(MCS0)_1TX	-	-	-	-
6025MHz	Pass	Inf	162.8M	156.322M
6185MHz	Pass	Inf	163.68M	156.322M
6345MHz	Pass	Inf	164.12M	156.522M
6665MHz	Pass	Inf	190.08M	156.922M
802.11be EHT320_Nss1,(MCS0)_1TX	-	-	-	-
6105MHz	Pass	Inf	420.64M	315.842M
6265MHz	Pass	Inf	326.48M	314.643M

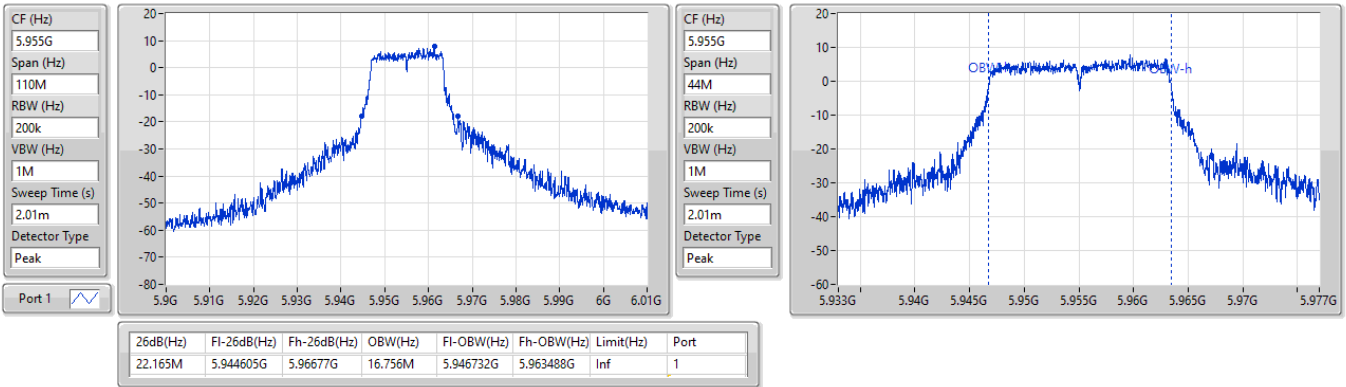
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5955MHz

08/05/2025

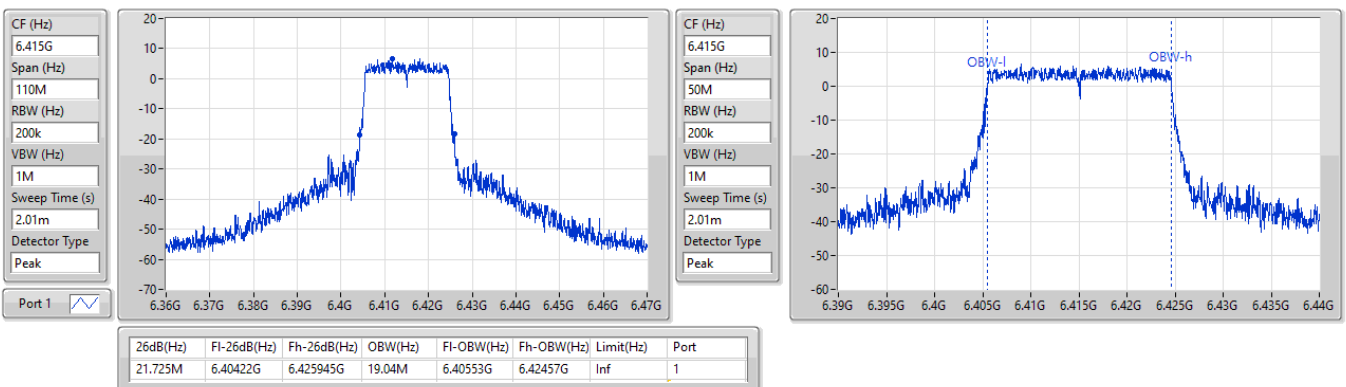


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6415MHz

08/05/2025

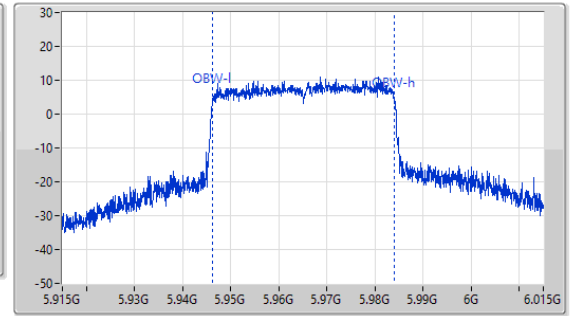
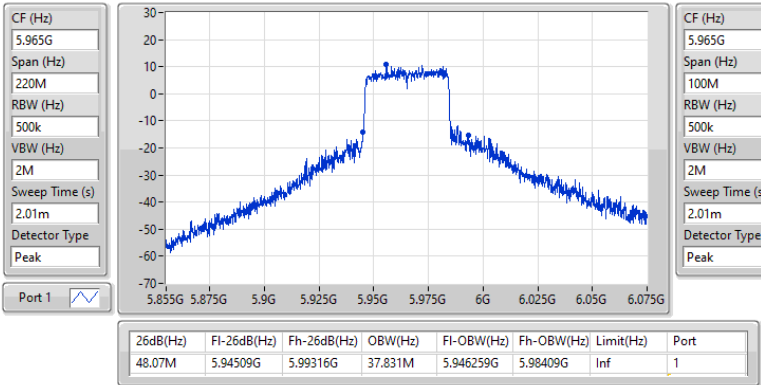


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

5965MHz

08/05/2025

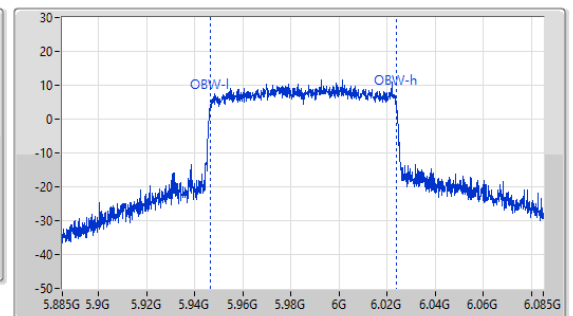
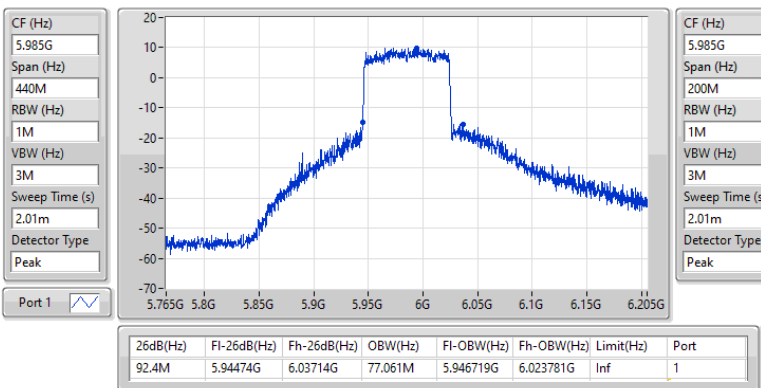


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

5985MHz

08/05/2025

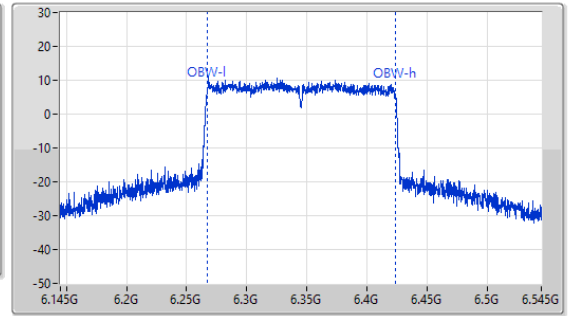
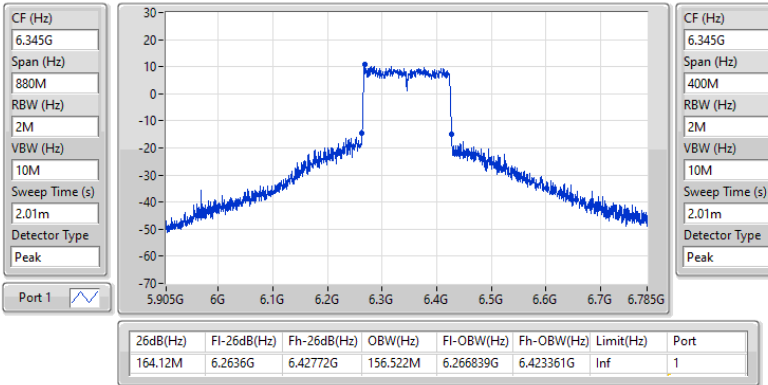


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6345MHz

08/05/2025

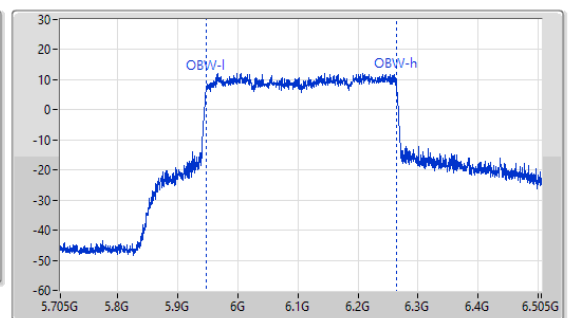
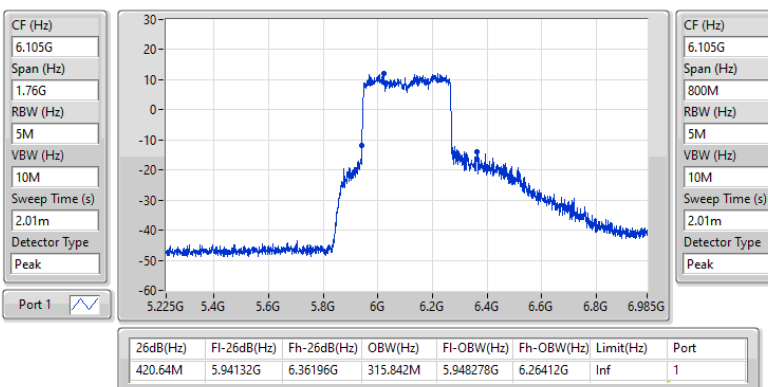


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_1TX

EBW

6105MHz

08/05/2025

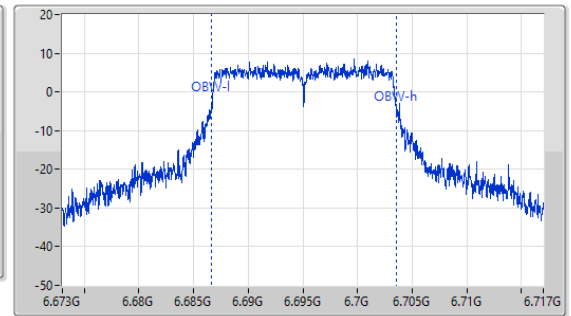
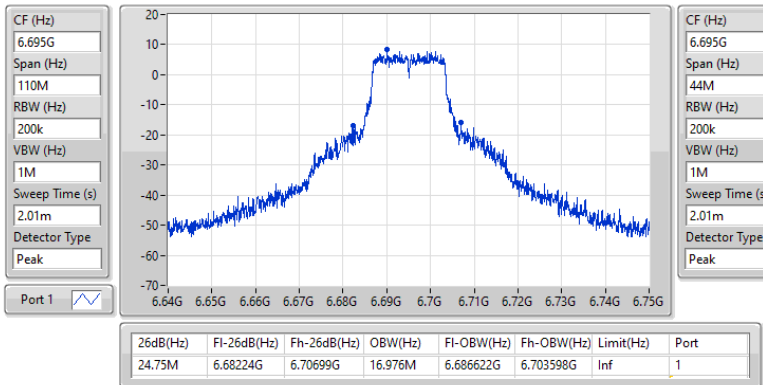


6.525-6.875GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

6695MHz

08/05/2025

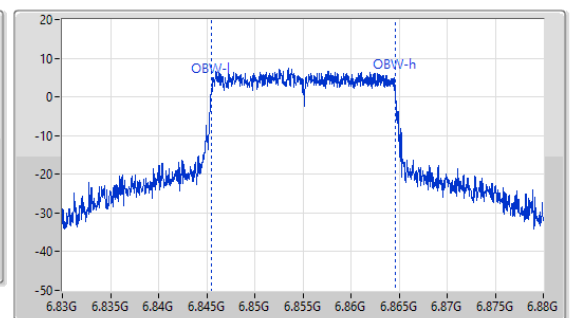
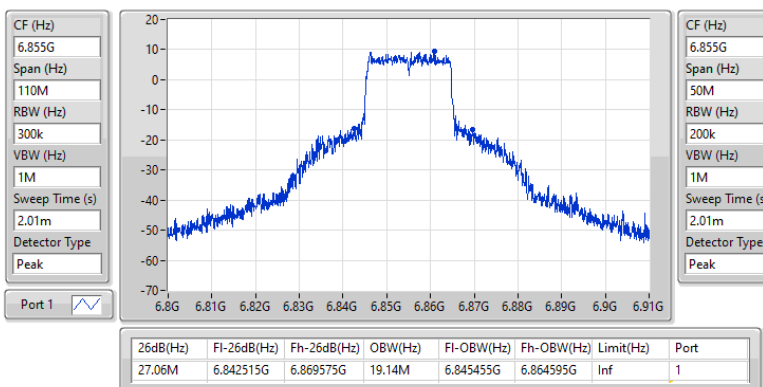


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_1TX

EBW

6855MHz

08/05/2025

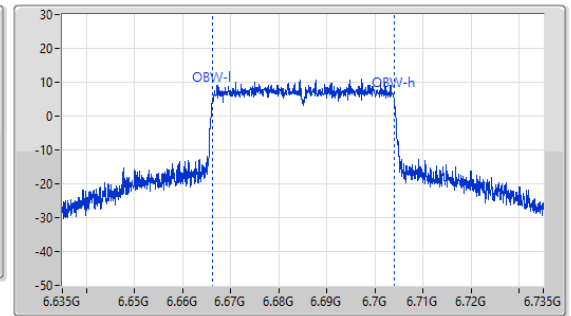
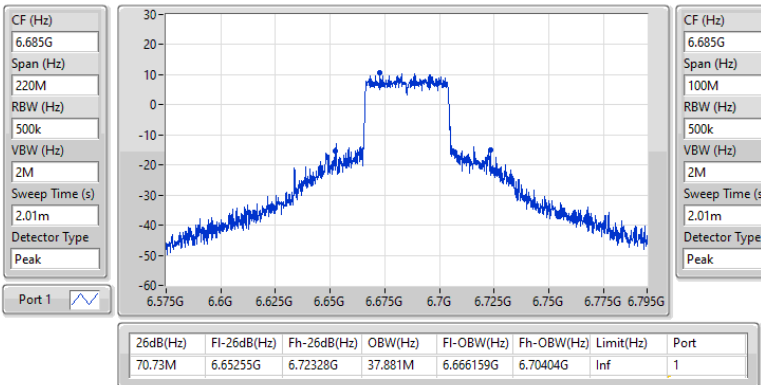


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_1TX

EBW

6685MHz

08/05/2025

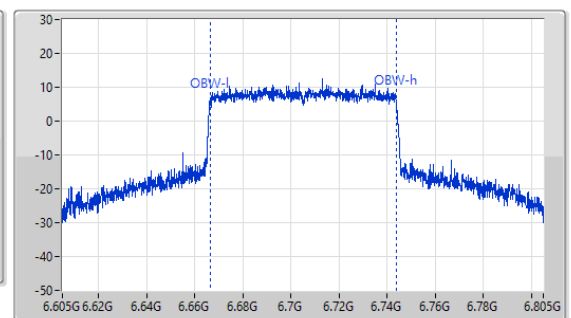
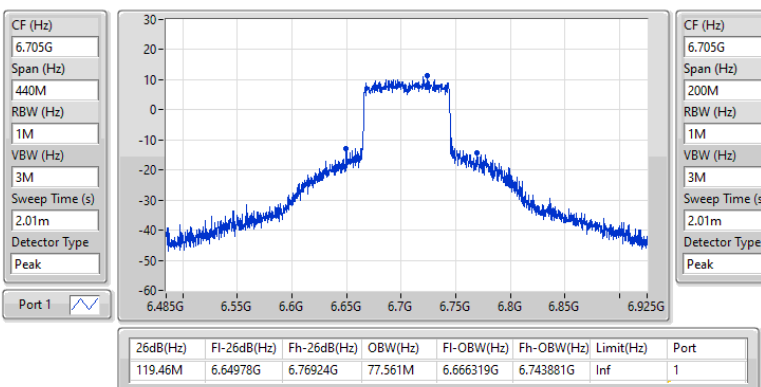


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_1TX

EBW

6705MHz

08/05/2025

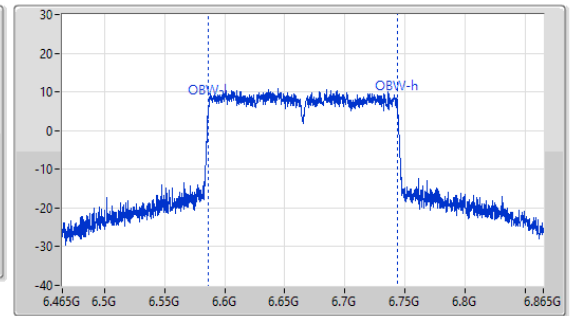
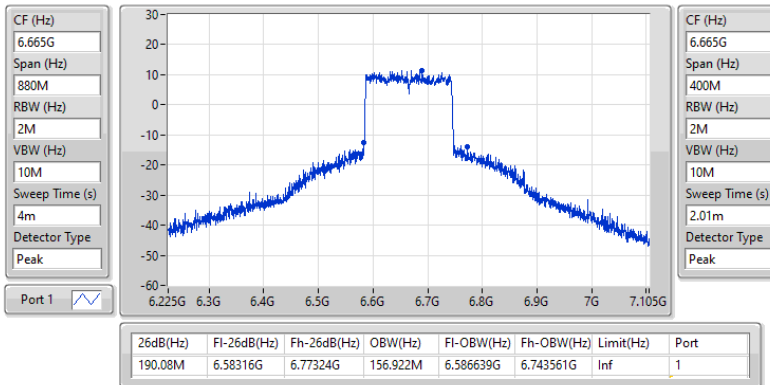


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_1TX

EBW

6665MHz

08/05/2025



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.395M	16.778M	16M8D1D	20.735M	16.69M
802.11be EHT20_Nss1,(MCS0)_2TX	23.485M	19.14M	19M1D1D	21.065M	19.04M
802.11be EHT40_Nss1,(MCS0)_2TX	45.32M	37.881M	37M9D1D	39.6M	37.681M
802.11be EHT80_Nss1,(MCS0)_2TX	108.02M	77.461M	77M5D1D	81.18M	76.962M
802.11be EHT160_Nss1,(MCS0)_2TX	200.2M	156.322M	156MD1D	162.8M	156.122M
802.11be EHT320_Nss1,(MCS0)_2TX	435.6M	315.842M	316MD1D	325.6M	314.243M
6.525-6.875GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	27.17M	16.866M	16M9D1D	20.735M	16.668M
802.11be EHT20_Nss1,(MCS0)_2TX	35.475M	19.215M	19M2D1D	21.23M	19.04M
802.11be EHT40_Nss1,(MCS0)_2TX	67.32M	37.981M	38M0D1D	40.15M	37.731M
802.11be EHT80_Nss1,(MCS0)_2TX	122.54M	77.561M	77M6D1D	80.74M	77.261M
802.11be EHT160_Nss1,(MCS0)_2TX	178.2M	157.121M	157MD1D	172.04M	156.922M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.065M	16.778M	21.285M	16.734M
6195MHz	Pass	Inf	20.845M	16.69M	20.735M	16.69M
6415MHz	Pass	Inf	20.79M	16.69M	21.395M	16.712M
6535MHz	Pass	Inf	20.735M	16.69M	21.01M	16.668M
6695MHz	Pass	Inf	27.17M	16.844M	22.11M	16.712M
6855MHz	Pass	Inf	26.18M	16.866M	24.695M	16.734M
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	23.485M	19.115M	21.45M	19.065M
6195MHz	Pass	Inf	21.395M	19.065M	21.285M	19.14M
6415MHz	Pass	Inf	21.065M	19.04M	21.23M	19.065M
6535MHz	Pass	Inf	21.615M	19.065M	21.45M	19.04M
6695MHz	Pass	Inf	32.89M	19.215M	21.23M	19.09M
6855MHz	Pass	Inf	35.475M	19.09M	22.495M	19.09M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	45.32M	37.881M	40.15M	37.831M
6205MHz	Pass	Inf	40.37M	37.781M	40.04M	37.731M
6405MHz	Pass	Inf	39.6M	37.681M	39.93M	37.831M
6565MHz	Pass	Inf	40.15M	37.731M	40.59M	37.781M
6685MHz	Pass	Inf	57.2M	37.981M	40.26M	37.831M
6845MHz	Pass	Inf	67.32M	37.981M	43.01M	37.781M
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	89.98M	77.161M	88.44M	76.962M
6225MHz	Pass	Inf	91.96M	77.261M	81.62M	77.161M
6385MHz	Pass	Inf	108.02M	77.361M	81.18M	77.461M
6625MHz	Pass	Inf	83.82M	77.461M	80.74M	77.361M
6705MHz	Pass	Inf	122.54M	77.561M	81.84M	77.261M
6785MHz	Pass	Inf	114.18M	77.561M	84.04M	77.261M
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	164.12M	156.322M	200.2M	156.122M
6185MHz	Pass	Inf	163.68M	156.322M	162.8M	156.322M
6345MHz	Pass	Inf	162.8M	156.322M	162.8M	156.322M
6665MHz	Pass	Inf	172.04M	157.121M	178.2M	156.922M
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	435.6M	315.842M	339.68M	315.442M
6265MHz	Pass	Inf	325.6M	314.243M	326.48M	315.442M

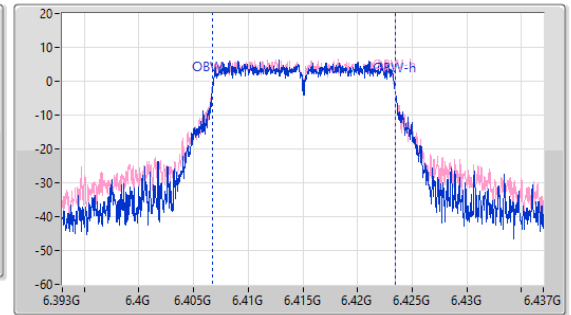
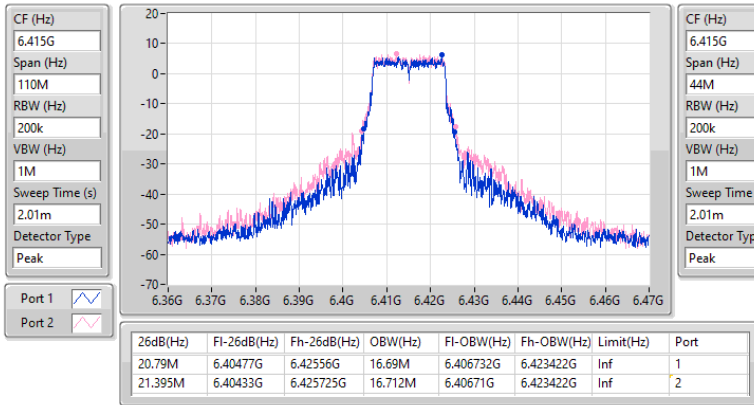
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6415MHz

07/05/2025

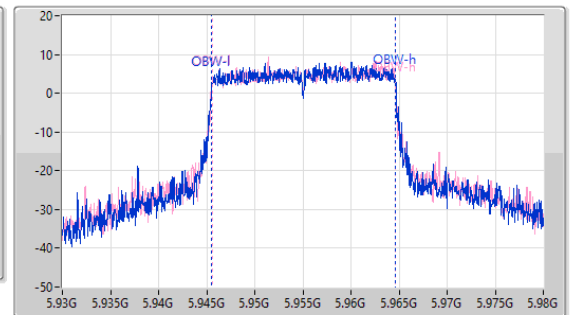
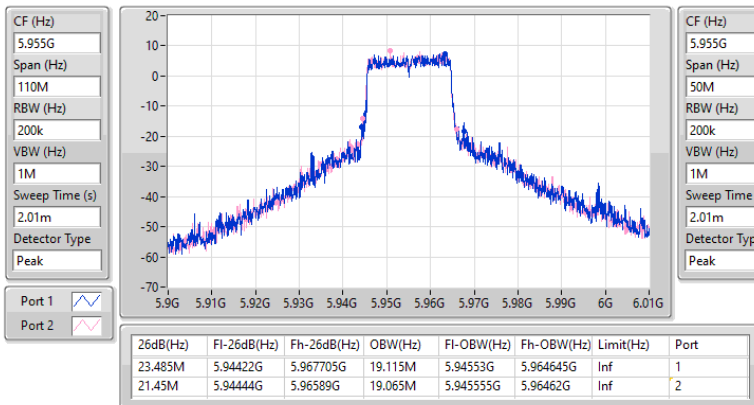


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5955MHz

07/05/2025

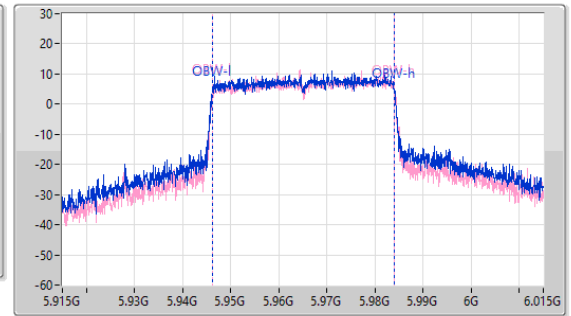
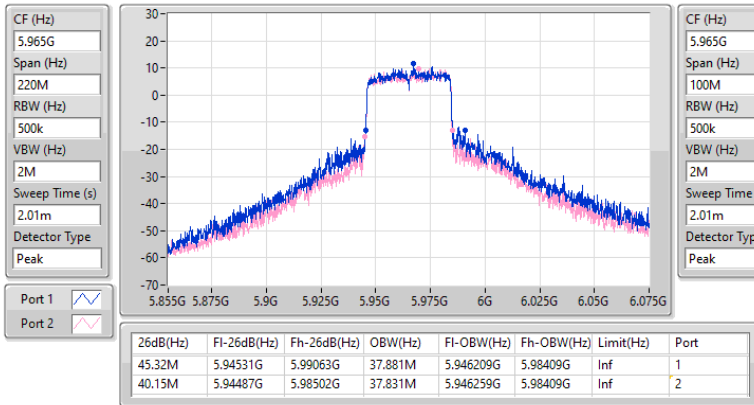


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5965MHz

07/05/2025

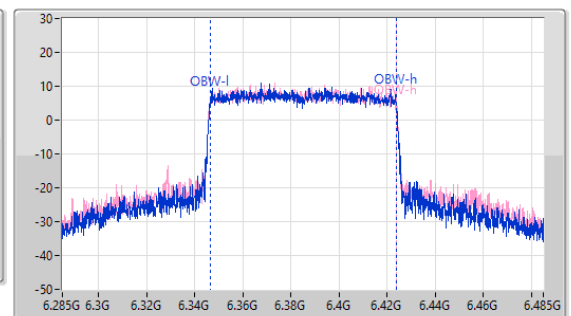
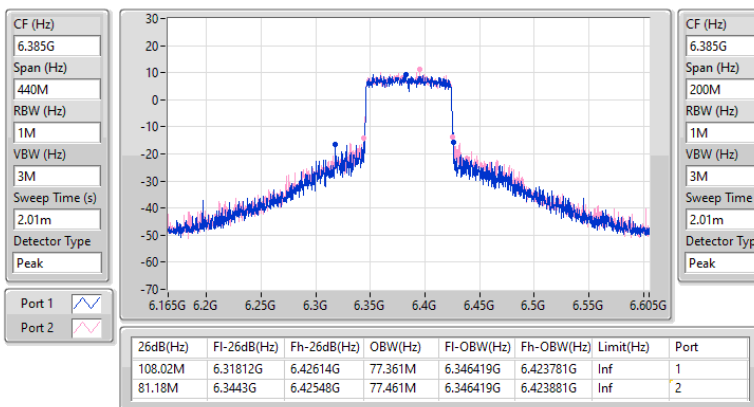


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6385MHz

07/05/2025

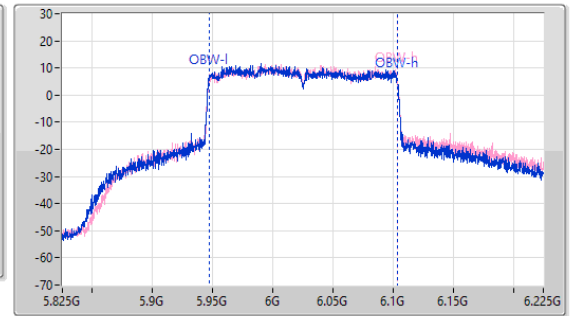
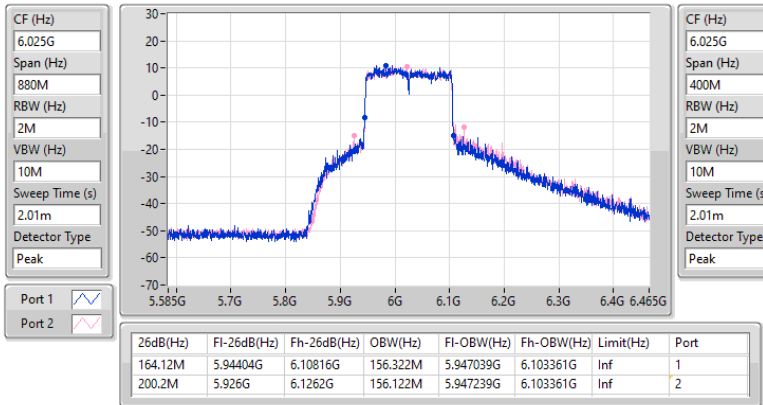


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6025MHz

07/05/2025

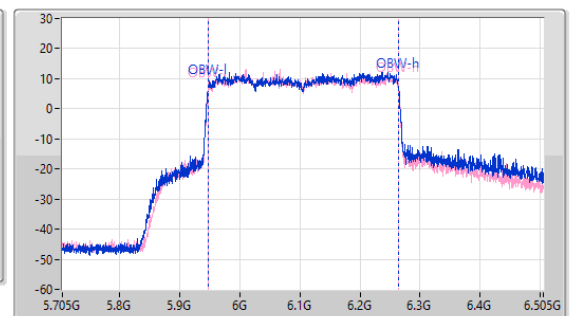
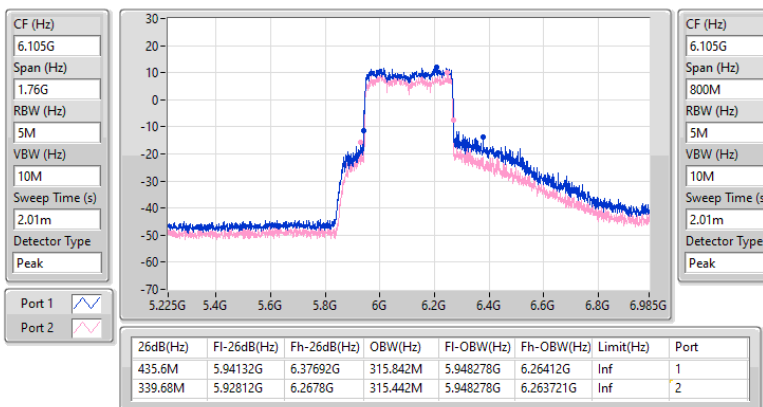


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX

EBW

6105MHz

07/05/2025

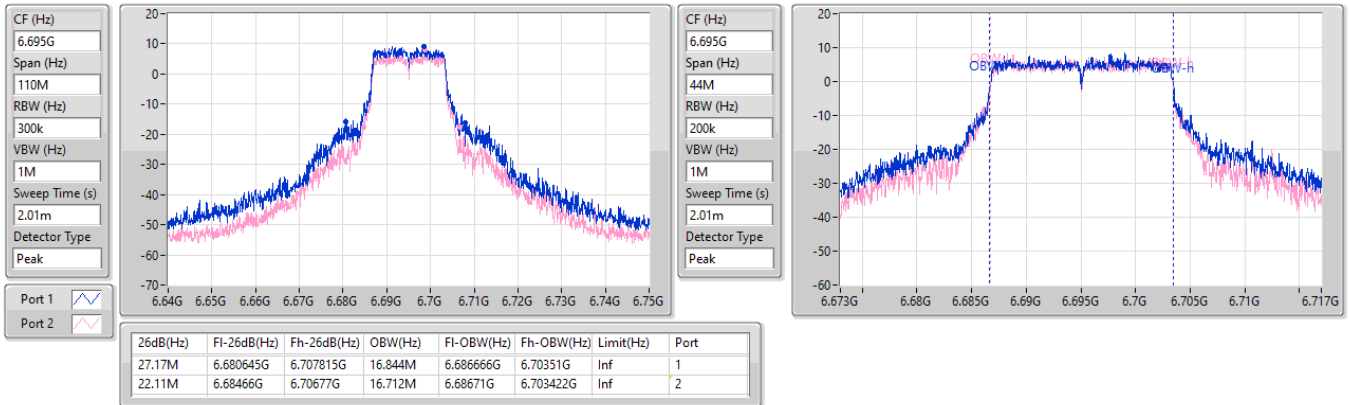


6.525-6.875GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

6695MHz

07/05/2025

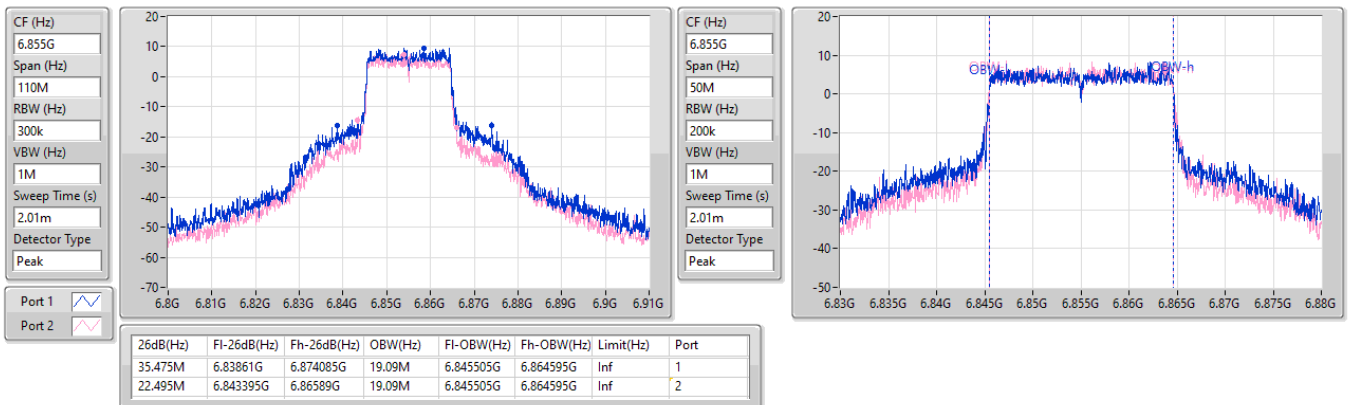


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6855MHz

07/05/2025

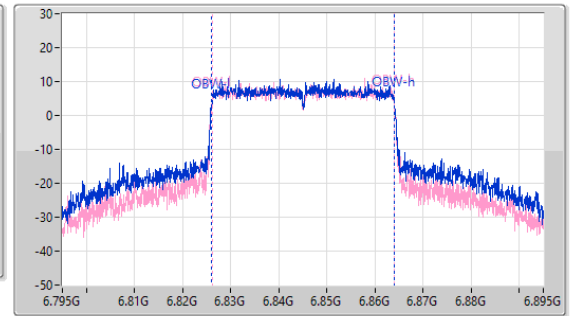
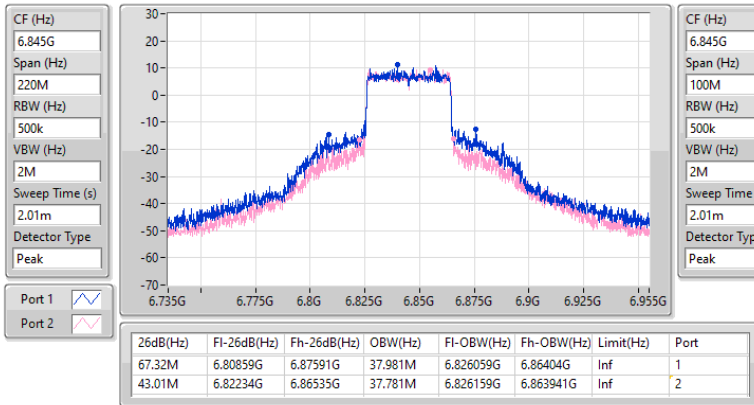


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6845MHz

07/05/2025

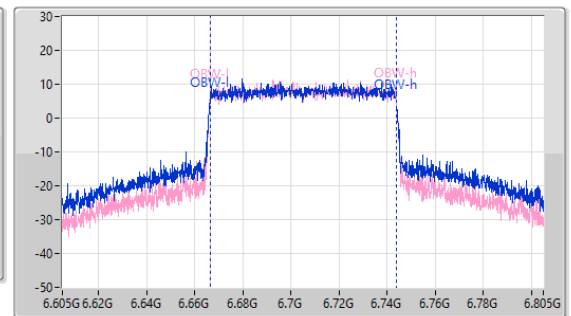
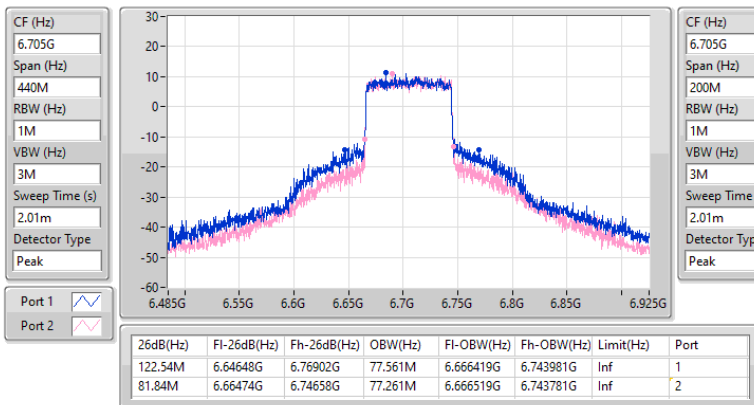


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6705MHz

07/05/2025

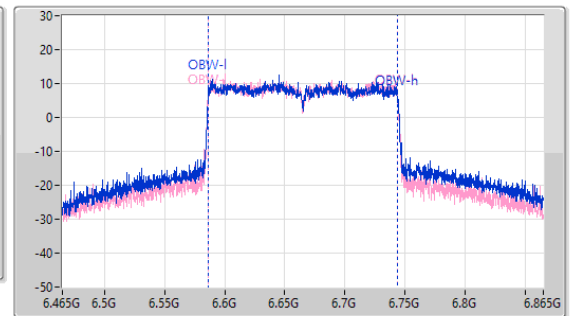
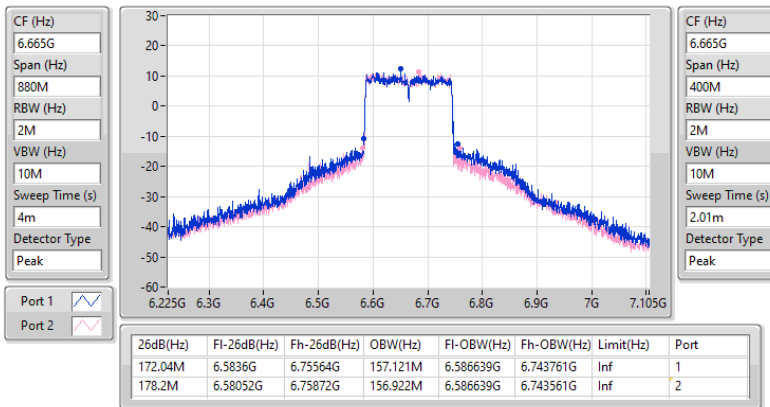


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

6665MHz

07/05/2025



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	23.595M	19.14M	19M1D1D	21.175M	19.015M
802.11be EHT40_Nss2,(MCS0)_2TX	55.55M	37.831M	37M8D1D	40.04M	37.731M
802.11be EHT80_Nss2,(MCS0)_2TX	106.92M	77.461M	77M5D1D	80.52M	77.061M
802.11be EHT160_Nss2,(MCS0)_2TX	188.32M	156.722M	157MD1D	161.92M	155.922M
802.11be EHT320_Nss2,(MCS0)_2TX	326.48M	316.242M	316MD1D	324.72M	315.442M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss2,(MCS0)_2TX	27.06M	19.115M	19M1D1D	21.065M	18.991M
802.11be EHT40_Nss2,(MCS0)_2TX	67.43M	37.981M	38M0D1D	40.15M	37.681M
802.11be EHT80_Nss2,(MCS0)_2TX	130.24M	77.661M	77M7D1D	81.62M	77.261M
802.11be EHT160_Nss2,(MCS0)_2TX	221.76M	156.922M	157MD1D	179.96M	156.522M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	22.22M	19.04M	23.595M	19.065M
6195MHz	Pass	Inf	21.45M	19.065M	21.45M	19.015M
6415MHz	Pass	Inf	21.175M	19.04M	21.78M	19.14M
6535MHz	Pass	Inf	21.725M	19.065M	21.12M	18.991M
6695MHz	Pass	Inf	27.06M	19.115M	26.51M	19.04M
6855MHz	Pass	Inf	25.905M	19.065M	21.065M	19.09M
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	55.55M	37.831M	40.37M	37.731M
6205MHz	Pass	Inf	42.9M	37.731M	40.59M	37.831M
6405MHz	Pass	Inf	40.04M	37.731M	40.26M	37.781M
6565MHz	Pass	Inf	40.37M	37.681M	40.15M	37.731M
6685MHz	Pass	Inf	67.43M	37.931M	40.26M	37.731M
6845MHz	Pass	Inf	65.23M	37.981M	41.91M	37.781M
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	93.72M	77.061M	106.92M	77.261M
6225MHz	Pass	Inf	97.9M	77.461M	81.18M	77.261M
6385MHz	Pass	Inf	80.52M	77.261M	81.18M	77.361M
6625MHz	Pass	Inf	94.38M	77.461M	82.06M	77.261M
6705MHz	Pass	Inf	130.24M	77.661M	81.62M	77.361M
6785MHz	Pass	Inf	101.64M	77.661M	82.06M	77.361M
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	162.8M	155.922M	188.32M	155.922M
6185MHz	Pass	Inf	168.52M	156.322M	162.8M	156.722M
6345MHz	Pass	Inf	164.12M	156.522M	161.92M	156.122M
6665MHz	Pass	Inf	221.76M	156.922M	179.96M	156.522M
802.11be EHT320_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	326.48M	315.442M	325.6M	316.242M
6265MHz	Pass	Inf	326.48M	315.442M	324.72M	315.442M

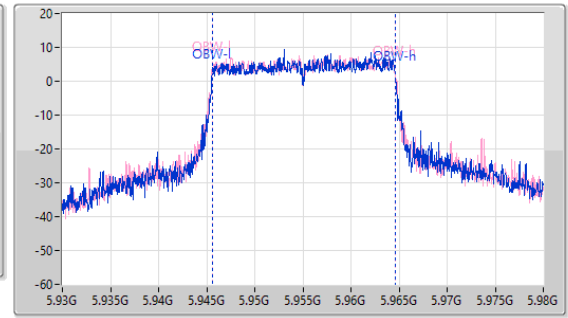
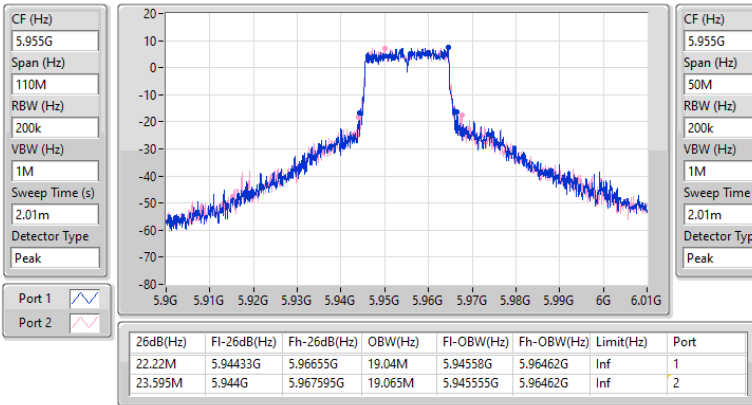
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

5955MHz

07/05/2025

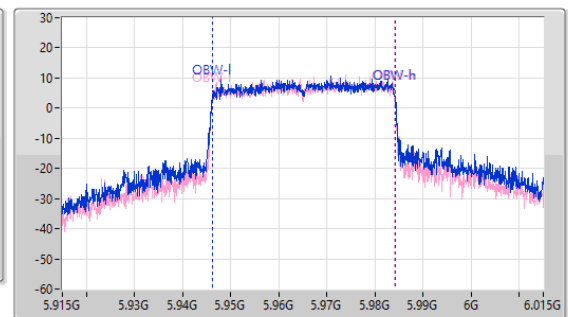
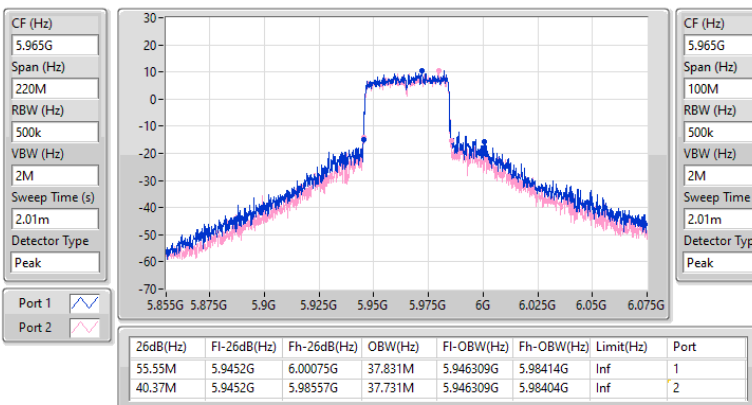


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

5965MHz

07/05/2025

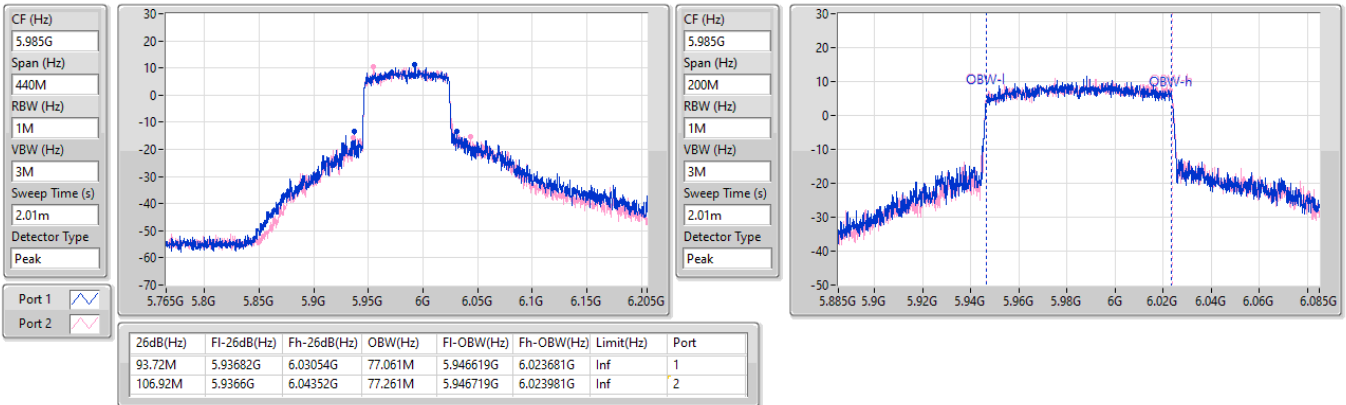


5.925-6.425GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

5985MHz

07/05/2025

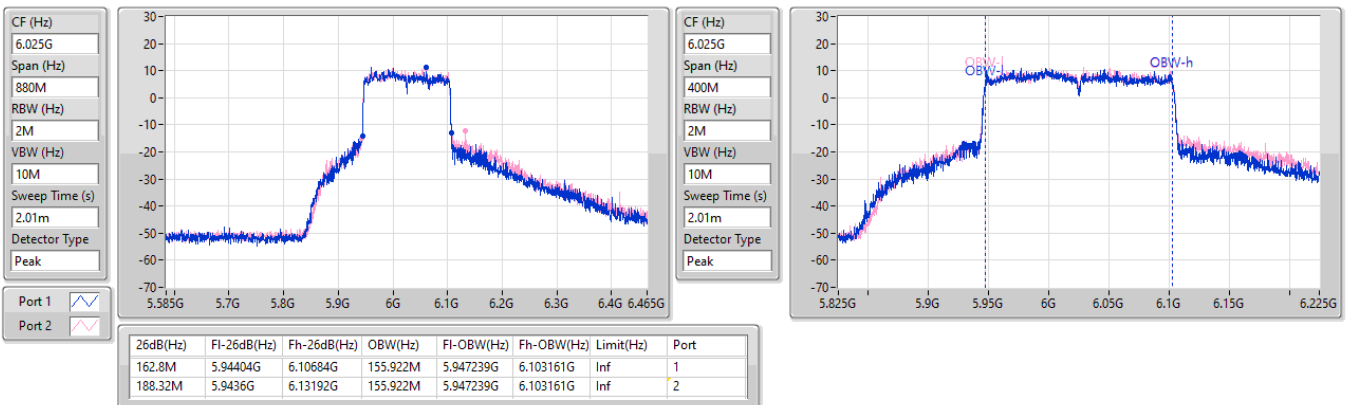


5.925-6.425GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6025MHz

07/05/2025

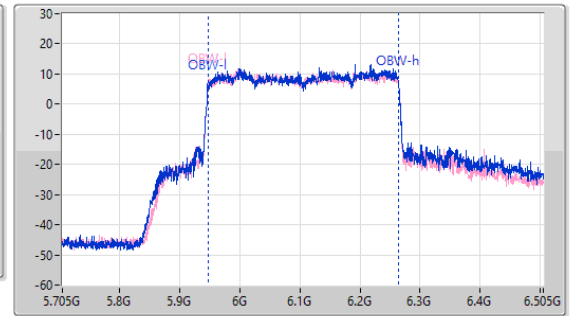
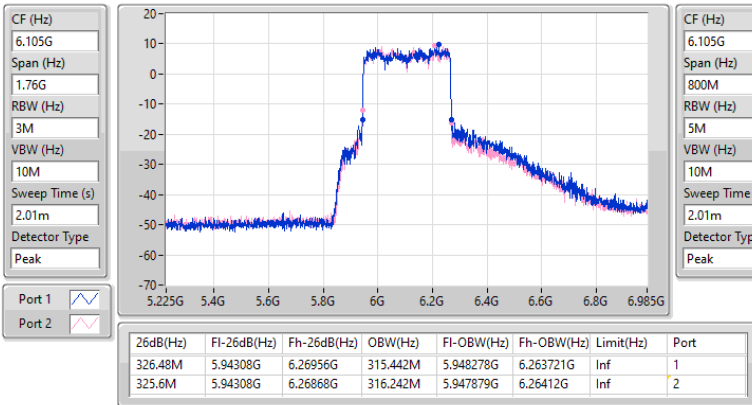


5.925-6.425GHz_802.11be EHT320_Nss2,(MCS0)_2TX

EBW

6105MHz

07/05/2025

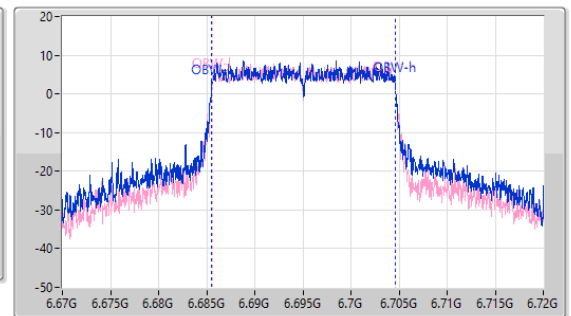
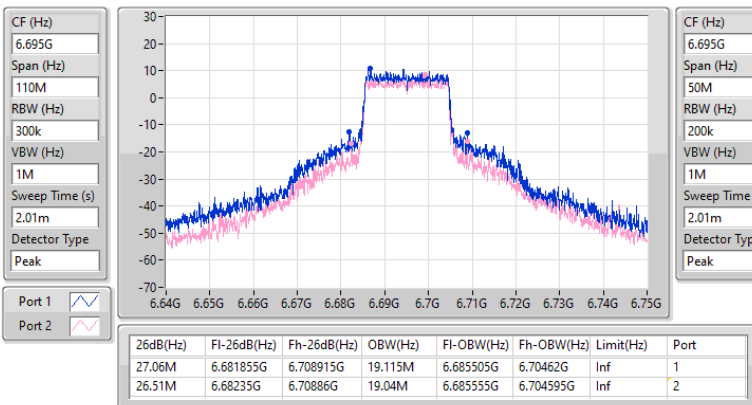


6.525-6.875GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

6695MHz

07/05/2025

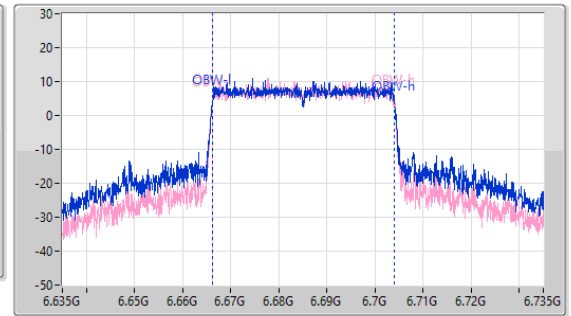
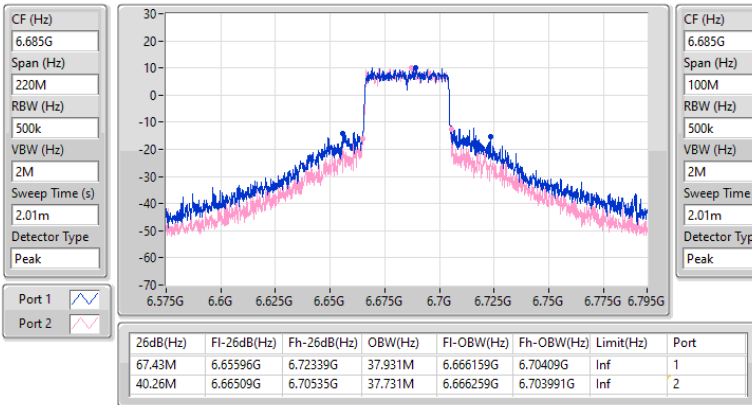


6.525-6.875GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6685MHz

07/05/2025

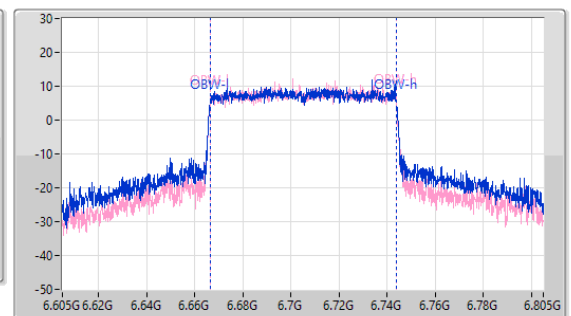
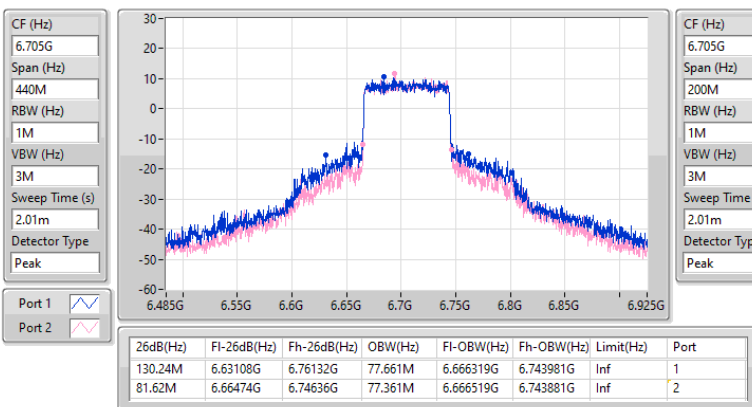


6.525-6.875GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

6705MHz

07/05/2025

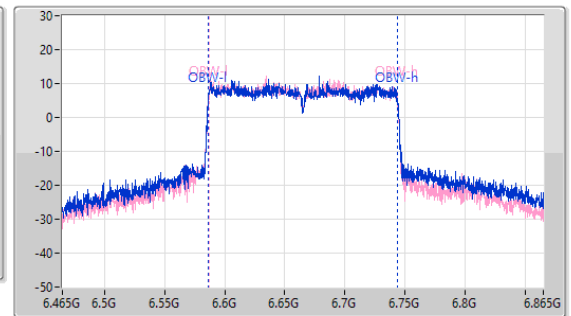
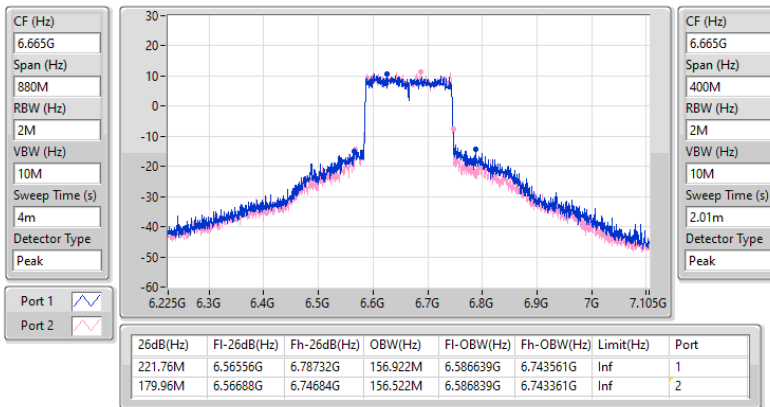


6.525-6.875GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6665MHz

07/05/2025



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	24.64M	19.04M	19M0D1D	21.23M	18.991M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	46.86M	37.781M	37M8D1D	39.71M	37.581M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	98.12M	77.461M	77M5D1D	79.86M	76.662M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	163.24M	156.922M	157MD1D	161.92M	155.922M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	355.52M	315.842M	316MD1D	323.84M	314.643M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	29.095M	19.165M	19M2D1D	20.9M	18.991M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	53.46M	37.831M	37M8D1D	40.04M	37.531M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	114.4M	77.661M	77M7D1D	80.52M	76.962M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	182.16M	156.522M	157MD1D	163.68M	156.322M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	24.64M	18.991M	21.23M	19.04M
6195MHz	Pass	Inf	21.285M	18.991M	21.56M	19.04M
6415MHz	Pass	Inf	21.78M	19.04M	22.88M	19.015M
6535MHz	Pass	Inf	21.12M	18.991M	20.9M	19.015M
6695MHz	Pass	Inf	22M	19.165M	21.395M	19.065M
6855MHz	Pass	Inf	29.095M	19.115M	27.775M	19.04M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	44.55M	37.581M	42.57M	37.731M
6205MHz	Pass	Inf	40.15M	37.681M	39.71M	37.781M
6405MHz	Pass	Inf	40.26M	37.781M	46.86M	37.731M
6565MHz	Pass	Inf	40.15M	37.531M	40.48M	37.831M
6685MHz	Pass	Inf	40.26M	37.781M	47.41M	37.831M
6845MHz	Pass	Inf	53.46M	37.781M	40.04M	37.831M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	80.96M	76.662M	98.12M	77.061M
6225MHz	Pass	Inf	93.06M	76.862M	80.96M	77.261M
6385MHz	Pass	Inf	80.3M	77.261M	79.86M	77.461M
6625MHz	Pass	Inf	81.18M	77.561M	84.92M	77.061M
6705MHz	Pass	Inf	114.4M	76.962M	81.84M	77.361M
6785MHz	Pass	Inf	92.4M	77.661M	80.52M	77.161M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	161.92M	155.922M	162.36M	155.922M
6185MHz	Pass	Inf	162.36M	156.922M	162.8M	156.322M
6345MHz	Pass	Inf	162.8M	156.922M	163.24M	156.322M
6665MHz	Pass	Inf	182.16M	156.522M	163.68M	156.322M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	325.6M	315.842M	328.24M	314.643M
6265MHz	Pass	Inf	323.84M	315.042M	355.52M	315.042M

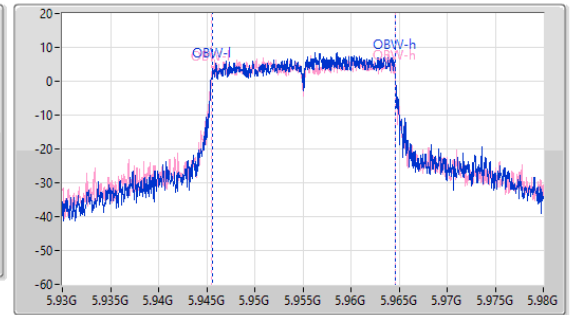
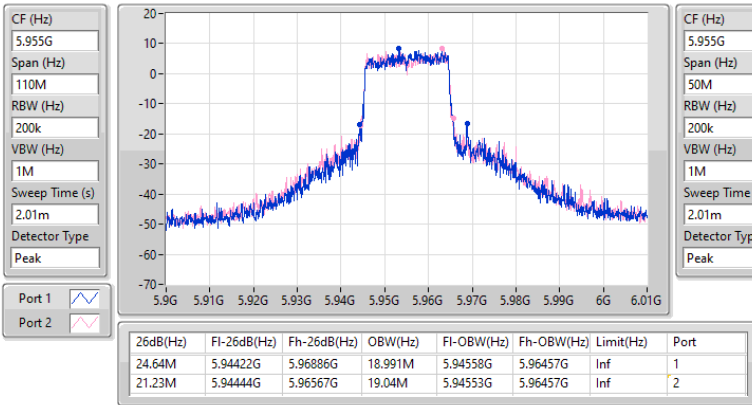
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

5955MHz

18/03/2025

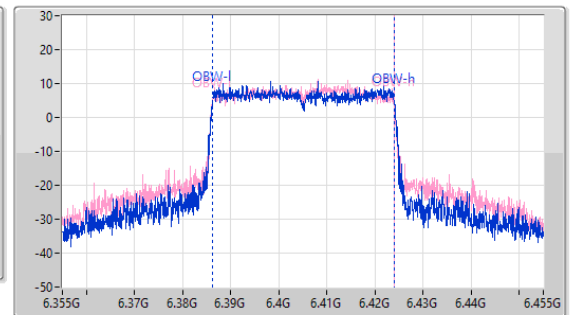
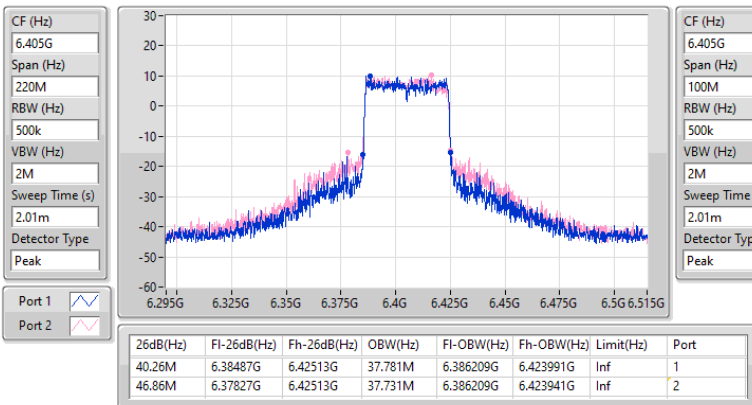


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6405MHz

18/03/2025

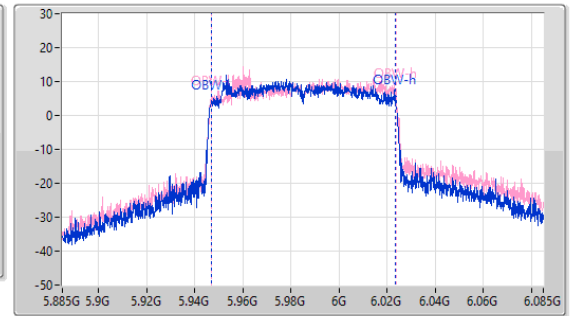
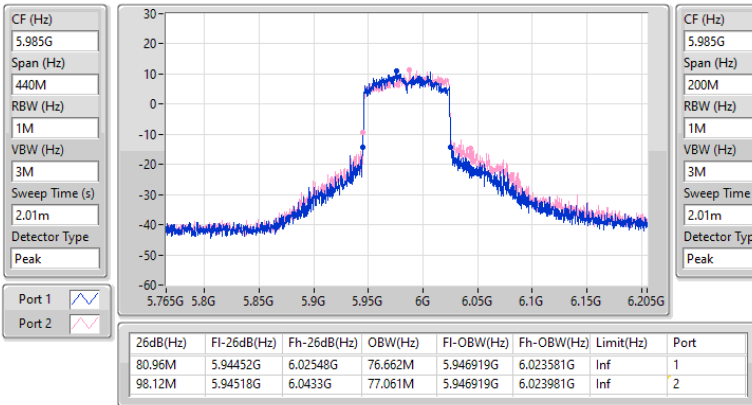


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

5985MHz

18/03/2025

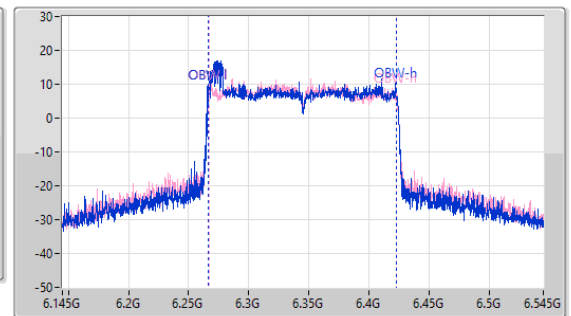
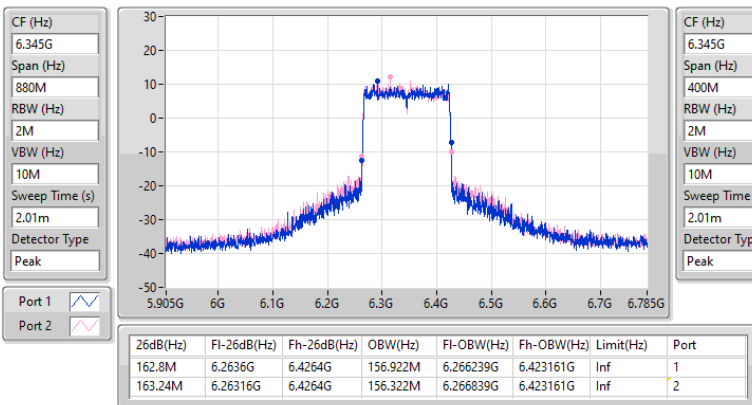


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6345MHz

18/03/2025

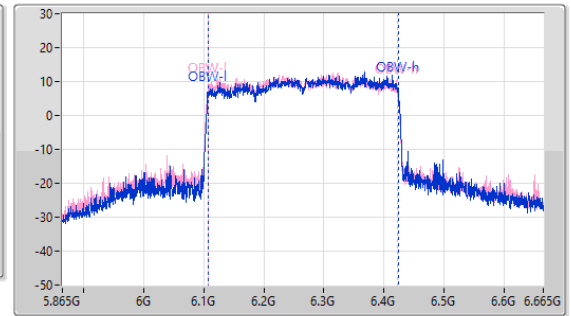
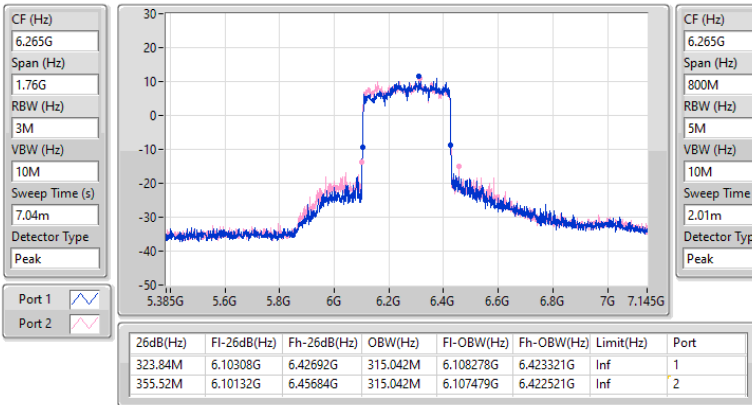


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6265MHz

18/03/2025

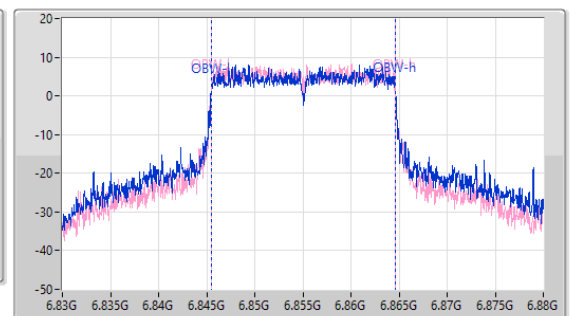
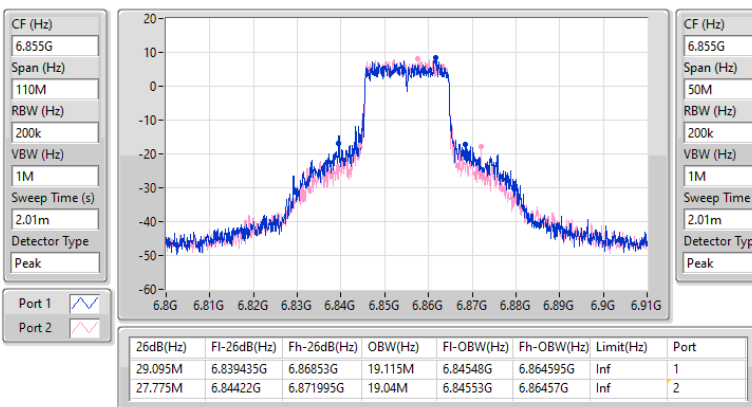


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6855MHz

18/03/2025

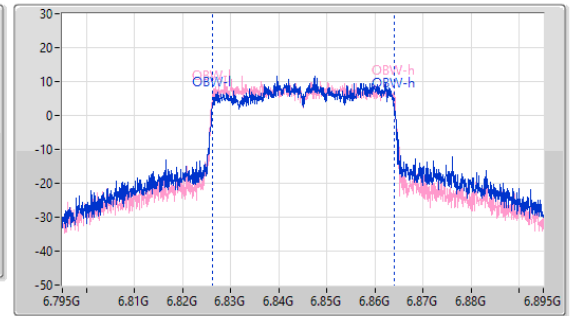
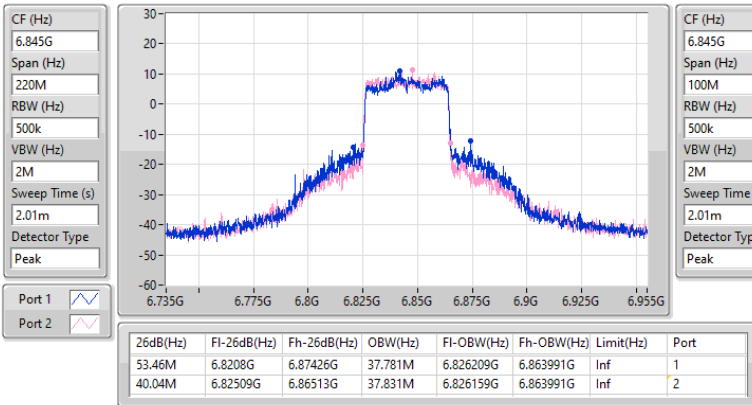


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6845MHz

18/03/2025

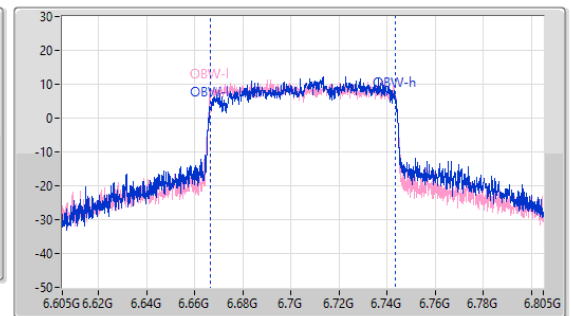
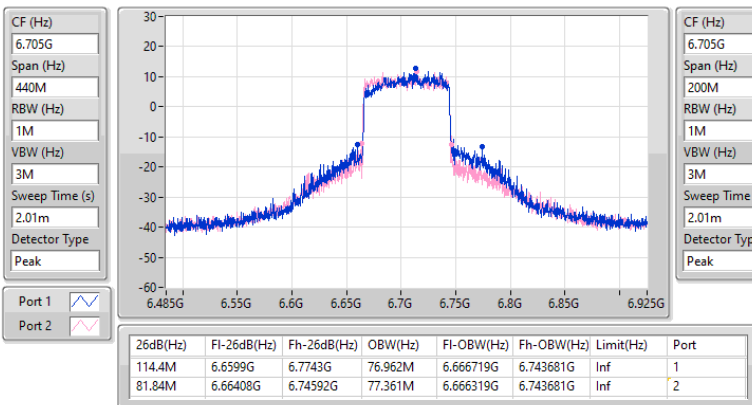


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6705MHz

18/03/2025

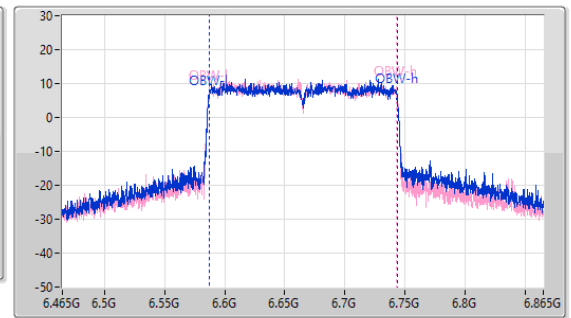
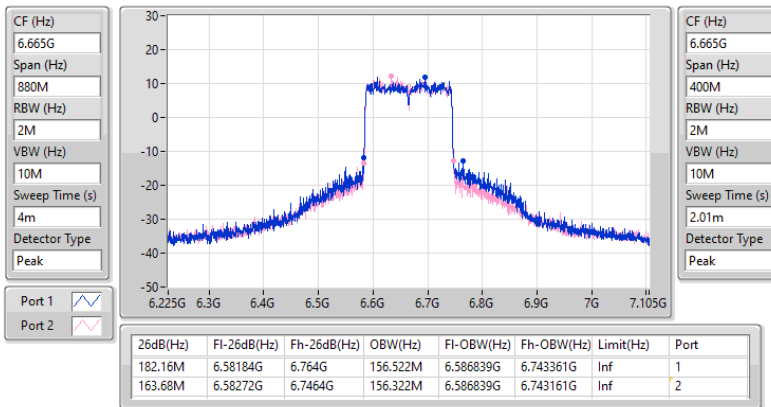


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6665MHz

18/03/2025





EBW_Beamforming_Radio 3_ Dual-Polarized MIMO Panel Antenna

Appendix B.11

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	24.64M	19.04M	19M0D1D	21.23M	18.991M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	46.86M	37.781M	37M8D1D	39.71M	37.581M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	98.12M	77.461M	77M5D1D	79.86M	76.662M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	163.24M	156.922M	157MD1D	161.92M	155.922M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	355.52M	315.842M	316MD1D	323.84M	314.643M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	29.095M	19.165M	19M2D1D	20.9M	18.991M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	53.46M	37.831M	37M8D1D	40.04M	37.531M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	114.4M	77.661M	77M7D1D	80.52M	76.962M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	182.16M	156.522M	157MD1D	163.68M	156.322M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	24.64M	18.991M	21.23M	19.04M
6195MHz	Pass	Inf	21.285M	18.991M	21.56M	19.04M
6415MHz	Pass	Inf	21.78M	19.04M	22.88M	19.015M
6535MHz	Pass	Inf	21.12M	18.991M	20.9M	19.015M
6695MHz	Pass	Inf	22M	19.165M	21.395M	19.065M
6855MHz	Pass	Inf	29.095M	19.115M	27.775M	19.04M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	44.55M	37.581M	42.57M	37.731M
6205MHz	Pass	Inf	40.15M	37.681M	39.71M	37.781M
6405MHz	Pass	Inf	40.26M	37.781M	46.86M	37.731M
6565MHz	Pass	Inf	40.15M	37.531M	40.48M	37.831M
6685MHz	Pass	Inf	40.26M	37.781M	47.41M	37.831M
6845MHz	Pass	Inf	53.46M	37.781M	40.04M	37.831M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	80.96M	76.662M	98.12M	77.061M
6225MHz	Pass	Inf	93.06M	76.862M	80.96M	77.261M
6385MHz	Pass	Inf	80.3M	77.261M	79.86M	77.461M
6625MHz	Pass	Inf	81.18M	77.561M	84.92M	77.061M
6705MHz	Pass	Inf	114.4M	76.962M	81.84M	77.361M
6785MHz	Pass	Inf	92.4M	77.661M	80.52M	77.161M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	161.92M	155.922M	162.36M	155.922M
6185MHz	Pass	Inf	162.36M	156.922M	162.8M	156.322M
6345MHz	Pass	Inf	162.8M	156.922M	163.24M	156.322M
6665MHz	Pass	Inf	182.16M	156.522M	163.68M	156.322M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	325.6M	315.842M	328.24M	314.643M
6265MHz	Pass	Inf	323.84M	315.042M	355.52M	315.042M

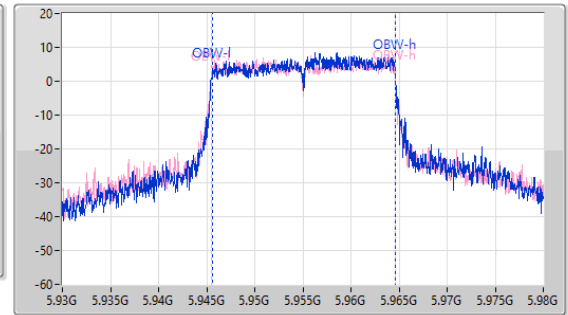
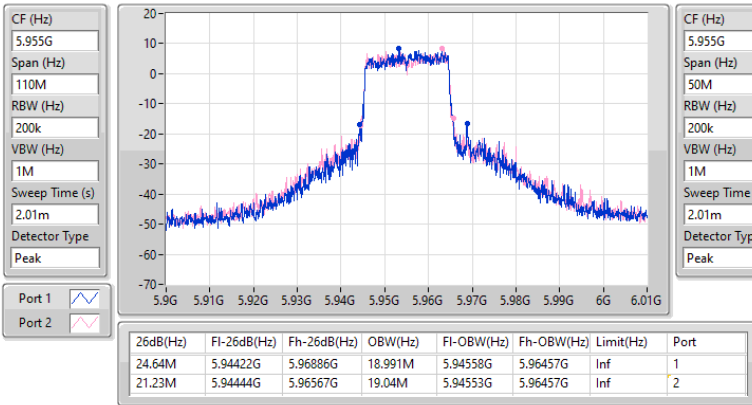
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

5955MHz

18/03/2025

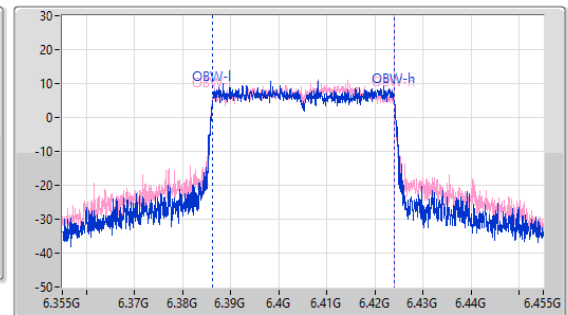
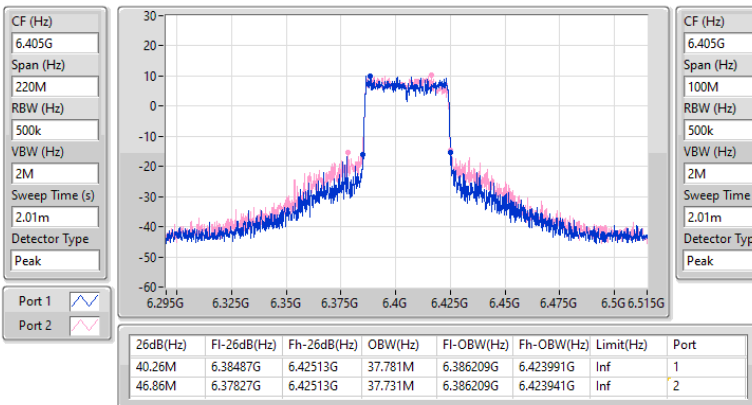


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6405MHz

18/03/2025

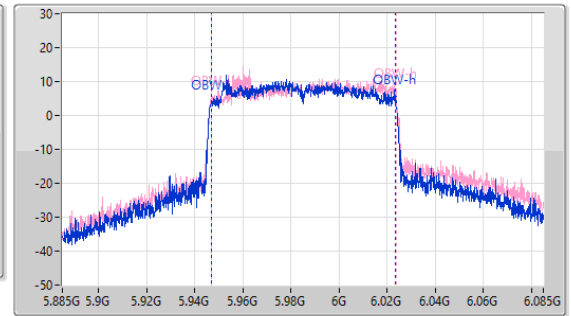
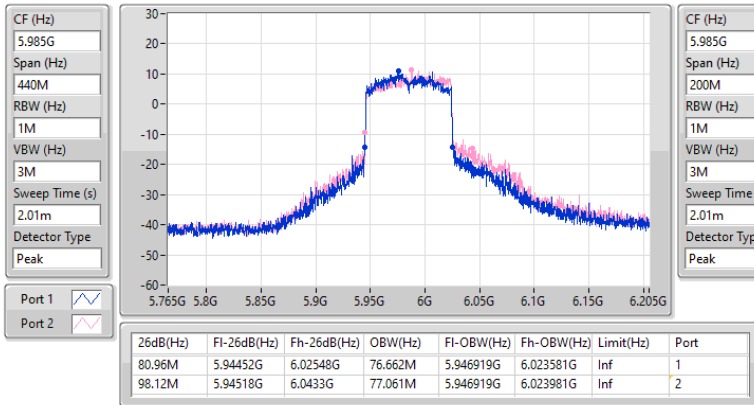


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

5985MHz

18/03/2025

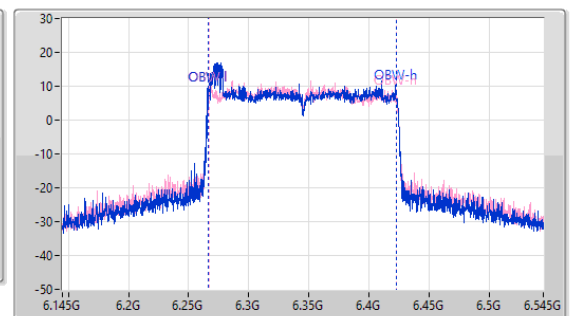
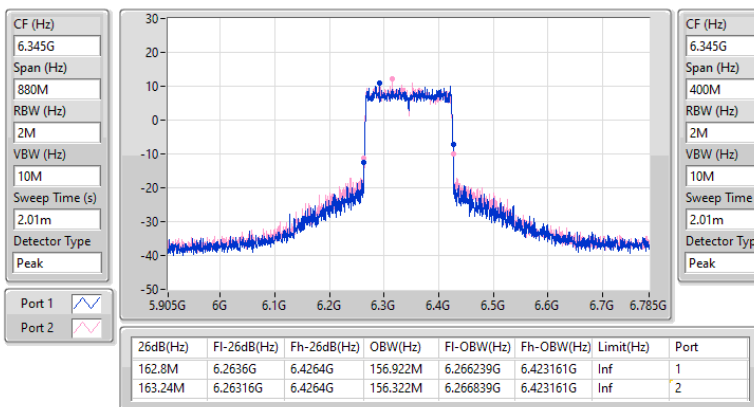


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6345MHz

18/03/2025

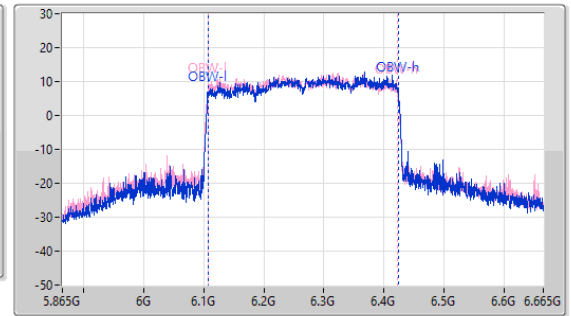
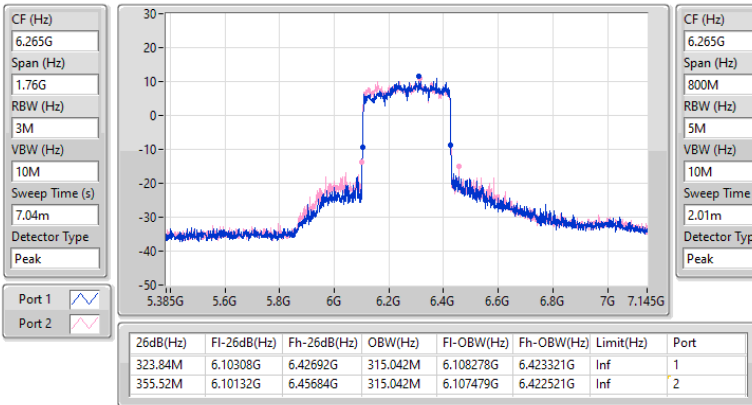


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6265MHz

18/03/2025

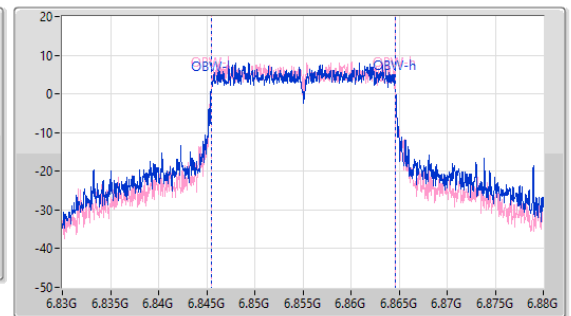
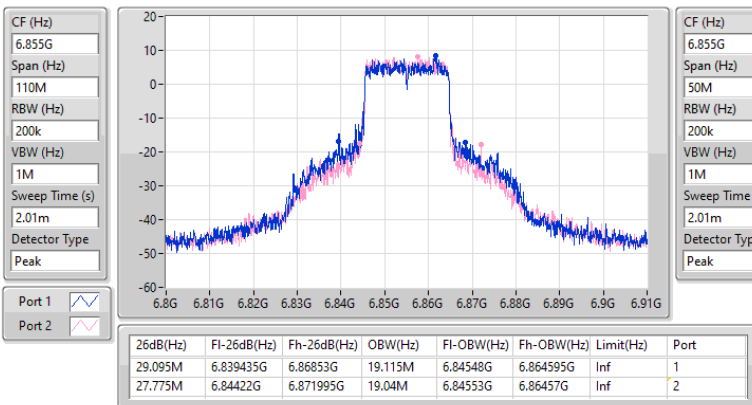


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6855MHz

18/03/2025

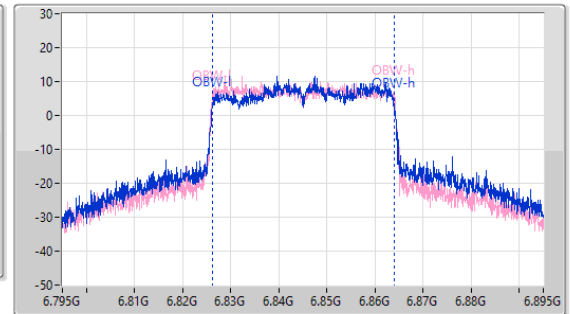
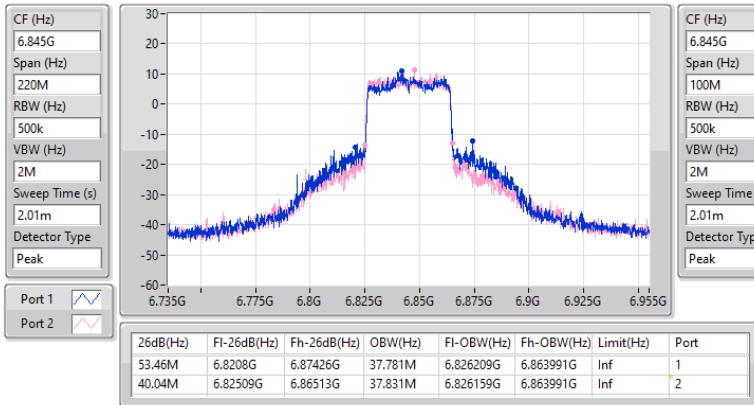


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6845MHz

18/03/2025

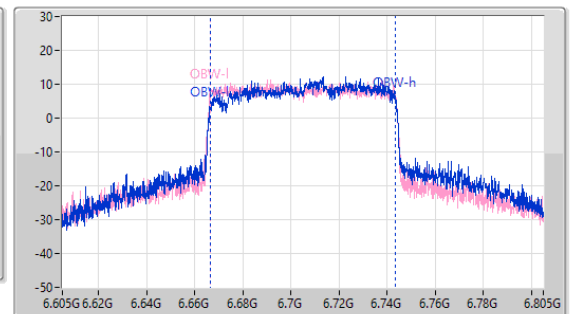
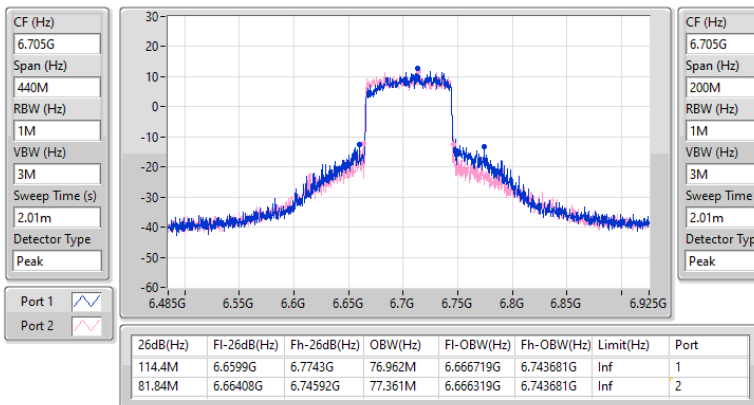


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6705MHz

18/03/2025

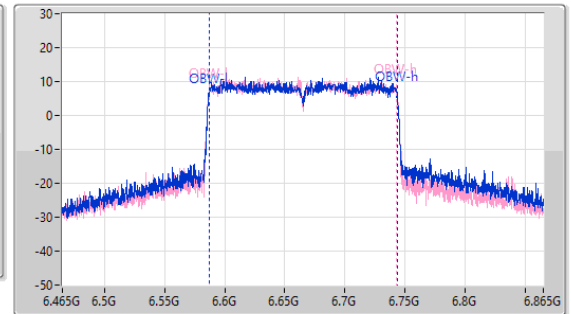
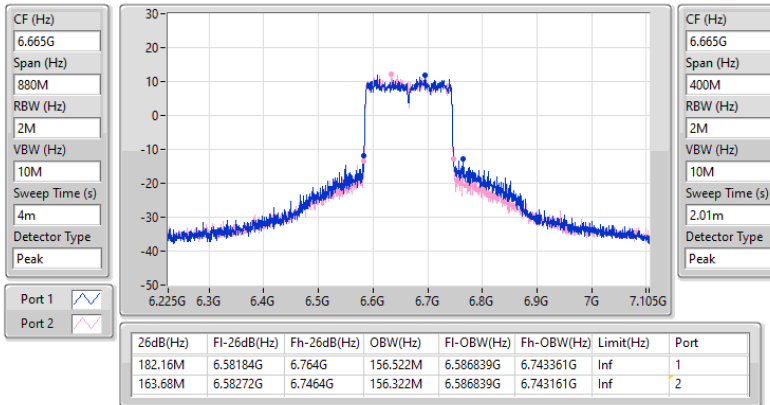


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6665MHz

18/03/2025



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.925-6.425GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	24.585M	19.065M	19M1D1D	21.175M	19.015M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	45.87M	37.831M	37M8D1D	40.04M	37.731M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	96.58M	77.361M	77M4D1D	80.96M	76.862M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	190.96M	156.522M	157MD1D	162.8M	155.922M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	335.28M	315.442M	315MD1D	323.84M	315.042M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	39.875M	19.265M	19M3D1D	21.395M	18.966M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	79.09M	38.181M	38M2D1D	39.6M	37.731M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	118.58M	77.661M	77M7D1D	80.52M	77.161M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	208.56M	157.121M	157MD1D	164.12M	157.121M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	24.585M	19.04M	21.67M	19.065M
6195MHz	Pass	Inf	21.45M	19.015M	21.34M	19.015M
6415MHz	Pass	Inf	21.175M	19.015M	21.23M	19.04M
6535MHz	Pass	Inf	21.395M	18.966M	21.45M	19.015M
6695MHz	Pass	Inf	32.725M	19.14M	27.335M	19.04M
6855MHz	Pass	Inf	39.875M	19.265M	28.93M	19.04M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	45.87M	37.831M	40.59M	37.731M
6205MHz	Pass	Inf	43.89M	37.781M	40.04M	37.781M
6405MHz	Pass	Inf	40.15M	37.781M	44.55M	37.831M
6565MHz	Pass	Inf	39.6M	37.731M	39.6M	37.731M
6685MHz	Pass	Inf	68.2M	37.931M	42.68M	37.781M
6845MHz	Pass	Inf	79.09M	38.181M	39.93M	37.781M
802.11be EHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	80.96M	76.862M	96.58M	77.061M
6225MHz	Pass	Inf	94.82M	77.261M	80.96M	77.361M
6385MHz	Pass	Inf	80.96M	77.061M	81.84M	77.361M
6625MHz	Pass	Inf	102.3M	77.561M	85.14M	77.361M
6705MHz	Pass	Inf	118.58M	77.661M	80.52M	77.461M
6785MHz	Pass	Inf	97.46M	77.361M	83.6M	77.161M
802.11be EHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	172.92M	155.922M	190.96M	155.922M
6185MHz	Pass	Inf	163.24M	156.322M	162.8M	156.322M
6345MHz	Pass	Inf	162.8M	156.322M	162.8M	156.522M
6665MHz	Pass	Inf	208.56M	157.121M	164.12M	157.121M
802.11be EHT320-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	325.6M	315.442M	323.84M	315.442M
6265MHz	Pass	Inf	325.6M	315.042M	335.28M	315.042M

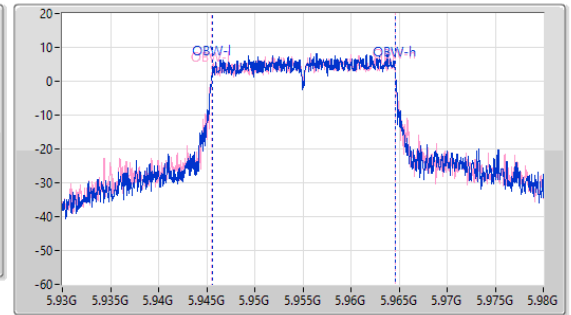
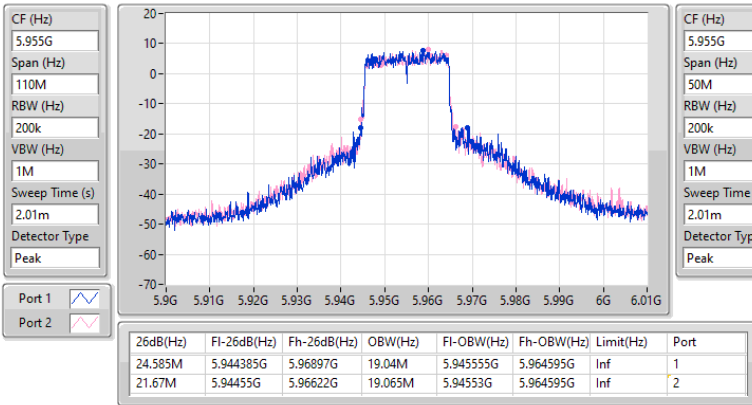
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

5955MHz

08/05/2025

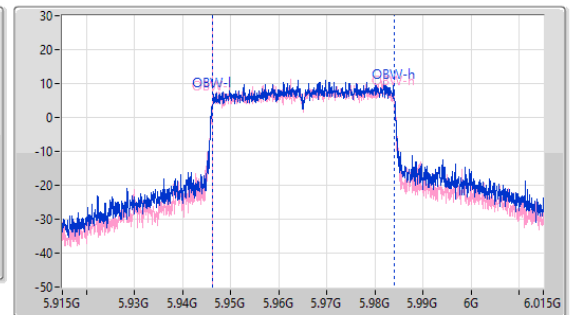
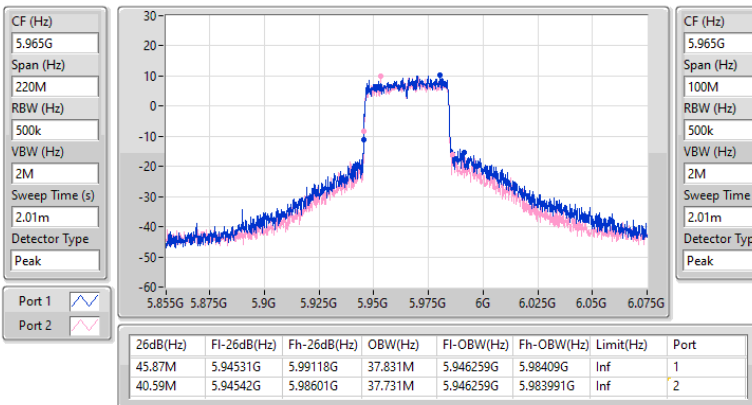


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

5965MHz

08/05/2025

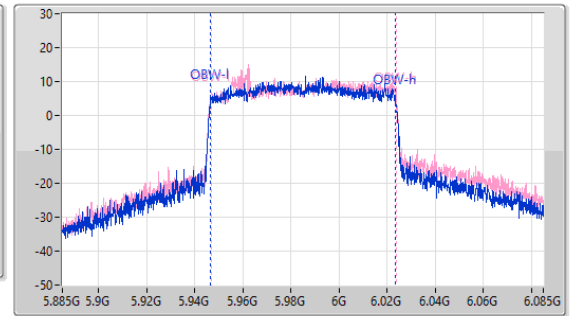
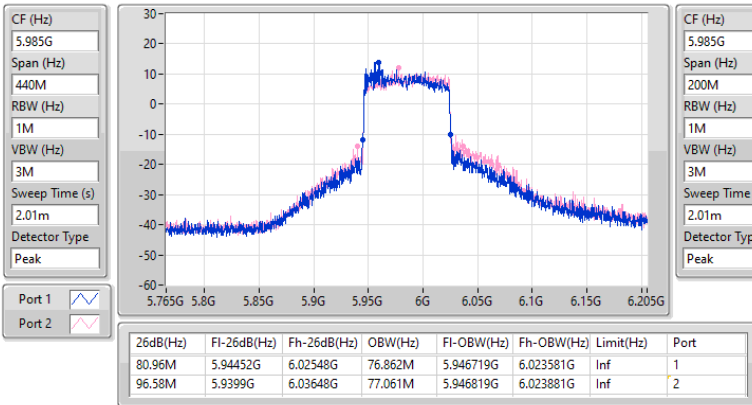


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

5985MHz

08/05/2025

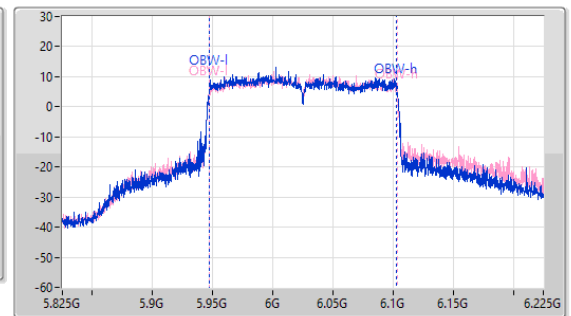
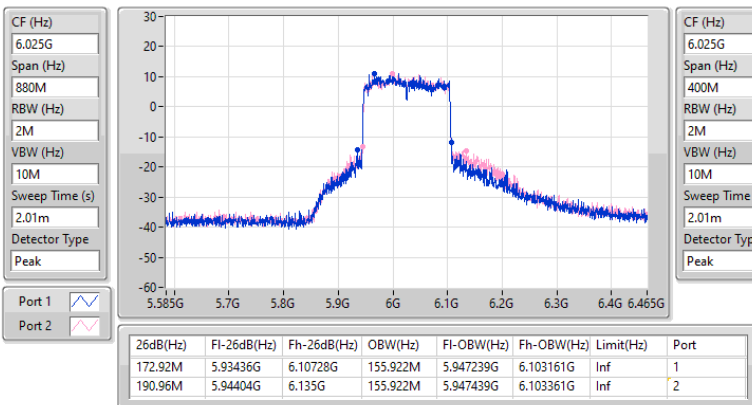


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6025MHz

08/05/2025

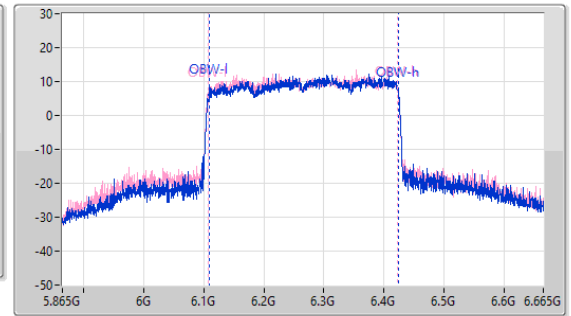
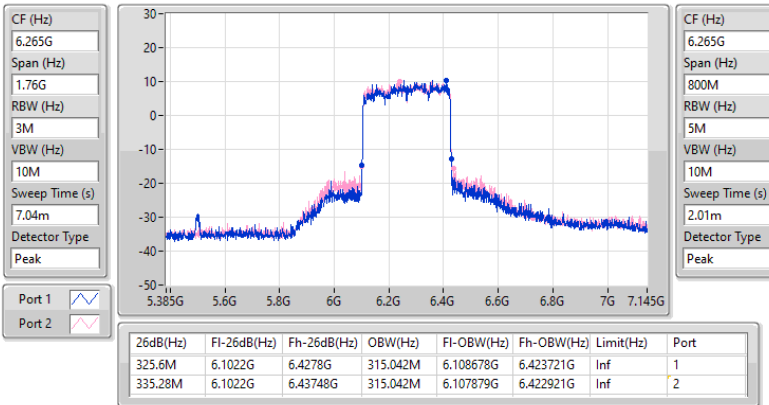


5.925-6.425GHz_802.11be EHT320-BF_Nss1,(MCS0)_2TX

EBW

6265MHz

08/05/2025

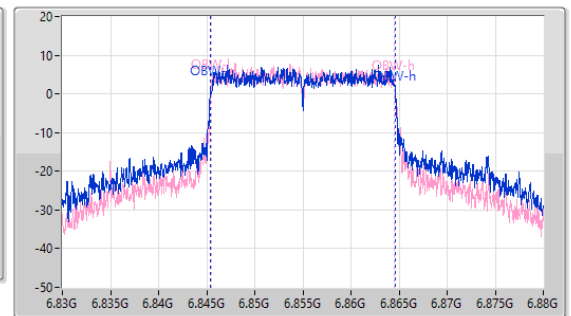
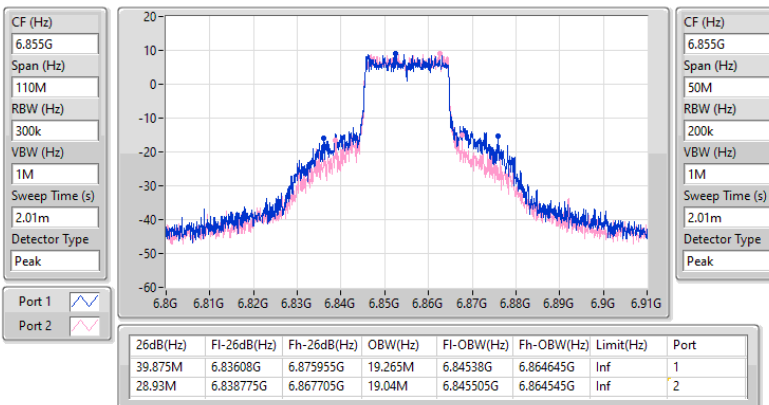


6.525-6.875GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

6855MHz

08/05/2025

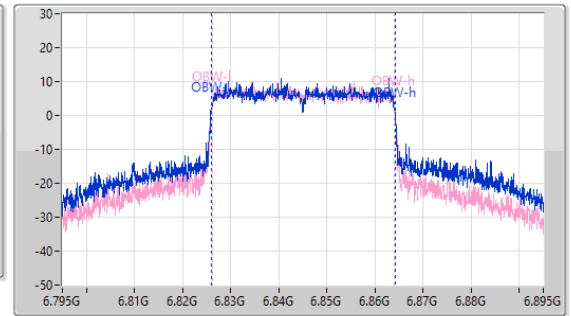
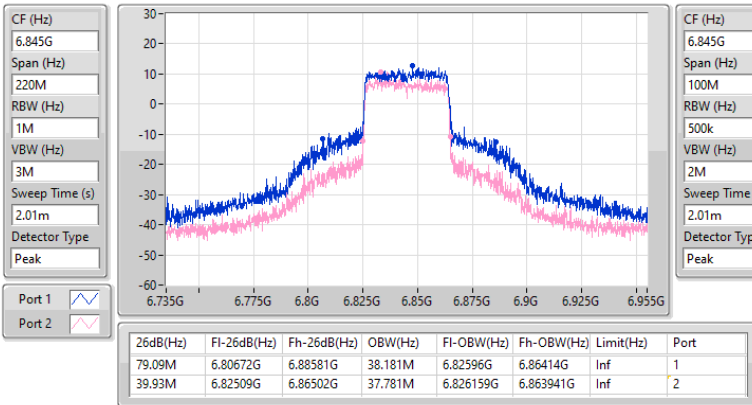


6.525-6.875GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6845MHz

08/05/2025

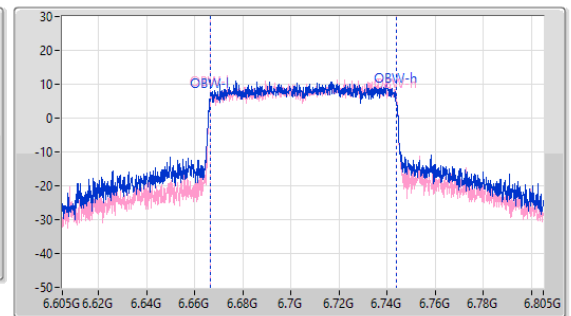
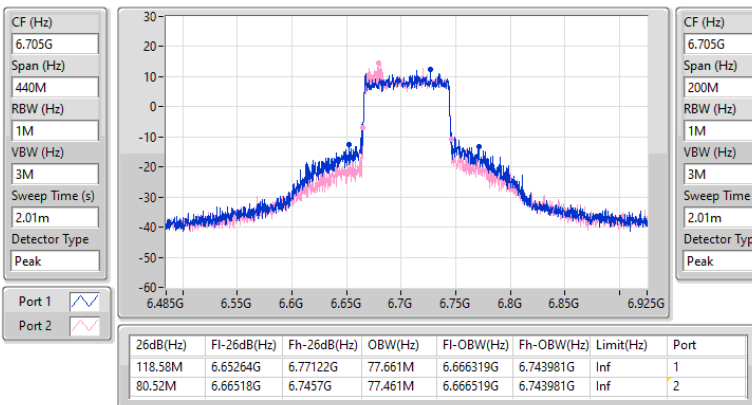


6.525-6.875GHz_802.11be EHT80-BF_Nss1,(MCS0)_2TX

EBW

6705MHz

08/05/2025

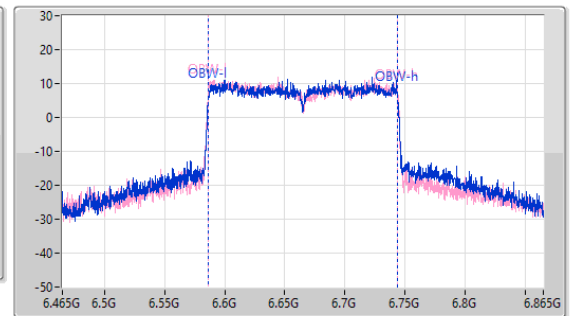
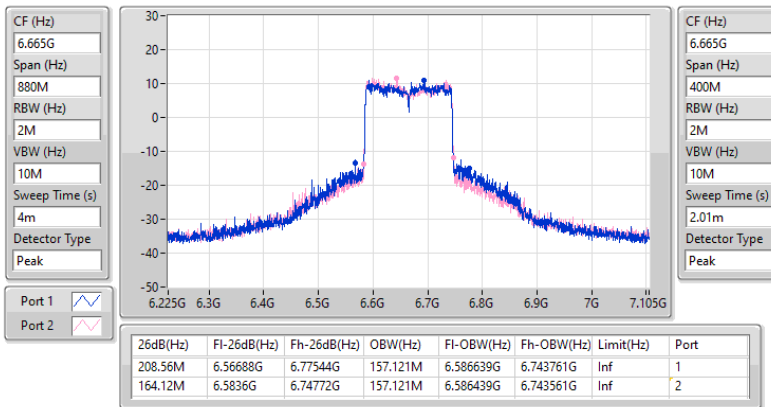


6.525-6.875GHz_802.11be EHT160-BF_Nss1,(MCS0)_2TX

EBW

6665MHz

08/05/2025





**Radiated EIRP_Non-Beamforming_Radio 3_
Dipole Antenna_1T1S**

Appendix C.1

Summary

Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	22.85	0.19275
802.11be EHT20_Nss1,(MCS0)_1TX	23.17	0.20749
802.11be EHT40_Nss1,(MCS0)_1TX	23.63	0.23067
802.11be EHT80_Nss1,(MCS0)_1TX	23.73	0.23605
802.11be EHT160_Nss1,(MCS0)_1TX	22.87	0.19364
802.11be EHT320_Nss1,(MCS0)_1TX	22.14	0.16368
6.525-6.875GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	23.91	0.24604
802.11be EHT20_Nss1,(MCS0)_1TX	24.15	0.26002
802.11be EHT40_Nss1,(MCS0)_1TX	25.72	0.37325
802.11be EHT80_Nss1,(MCS0)_1TX	25.08	0.32211
802.11be EHT160_Nss1,(MCS0)_1TX	23.22	0.20989



Radiated EIRP_Non-Beamforming_Radio 3_ Dipole Antenna_1T1S

Appendix C.1

Result

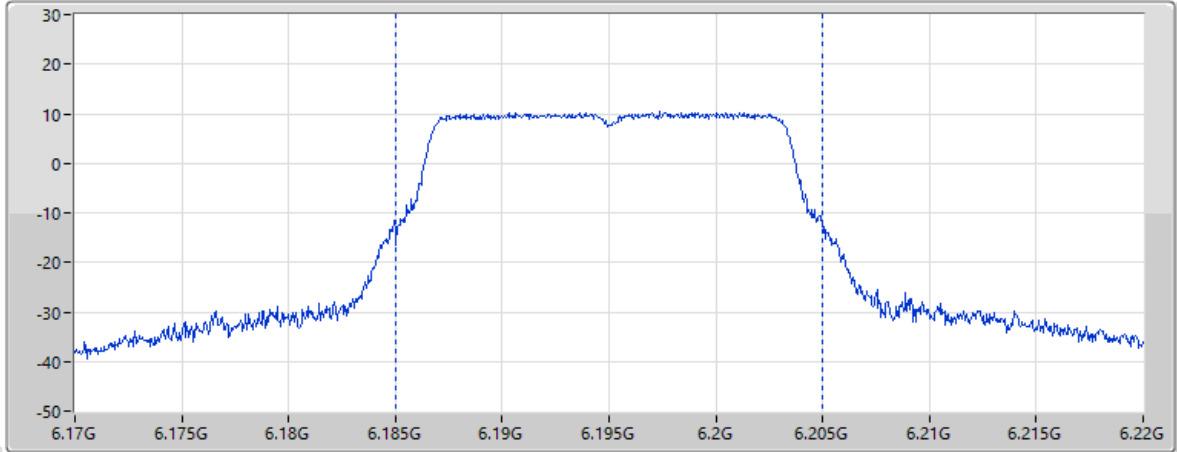
Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-
5955MHz	Pass	22.20	36.00
6195MHz	Pass	22.85	36.00
6415MHz	Pass	21.57	36.00
6535MHz	Pass	23.41	36.00
6695MHz	Pass	23.91	36.00
6855MHz	Pass	23.91	36.00
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-
5955MHz	Pass	23.05	36.00
6195MHz	Pass	23.17	36.00
6415MHz	Pass	21.86	36.00
6535MHz	Pass	23.72	36.00
6695MHz	Pass	24.15	36.00
6855MHz	Pass	24.08	36.00
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-
5965MHz	Pass	23.63	36.00
6205MHz	Pass	23.50	36.00
6405MHz	Pass	22.62	36.00
6565MHz	Pass	22.94	36.00
6685MHz	Pass	23.47	36.00
6845MHz	Pass	25.72	36.00
802.11be EHT80_Nss1,(MCS0)_1TX	-	-	-
5985MHz	Pass	22.45	36.00
6225MHz	Pass	23.73	36.00
6385MHz	Pass	22.41	36.00
6625MHz	Pass	23.79	36.00
6705MHz	Pass	24.00	36.00
6785MHz	Pass	25.08	36.00
802.11be EHT160_Nss1,(MCS0)_1TX	-	-	-
6025MHz	Pass	22.87	36.00
6185MHz	Pass	22.70	36.00
6345MHz	Pass	22.30	36.00
6665MHz	Pass	23.22	36.00
802.11be EHT320_Nss1,(MCS0)_1TX	-	-	-
6105MHz	Pass	22.14	36.00
6265MHz	Pass	21.45	36.00

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

05/03/2025

EIRP;Band:6.2G;11a;BWch:20MHz;Nss:1,(6D);Nant:1(1);Ch:6195MHz;TX

CF Freq
6.195GHz
Span
50MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS
CP BW
20MHz



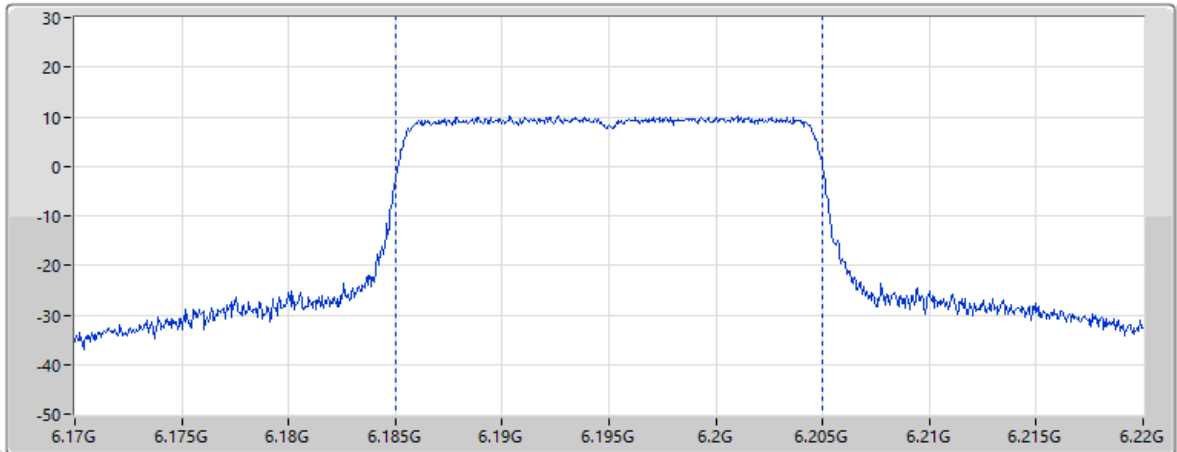
Page 7

EIRP (dBm) 22.85		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
8.76	11.49	5.36	37.66	57.88

05/03/2025

EIRP;Band:6.2G;be20;BWch:20MHz;Nss:1,(M0);Nant:1(1);Ch:6195MHz;TX

CF Freq
6.195GHz
Span
50MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS
CP BW
20MHz



Page 7

EIRP (dBm) 23.17		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
9.08	11.49	5.36	37.66	57.88



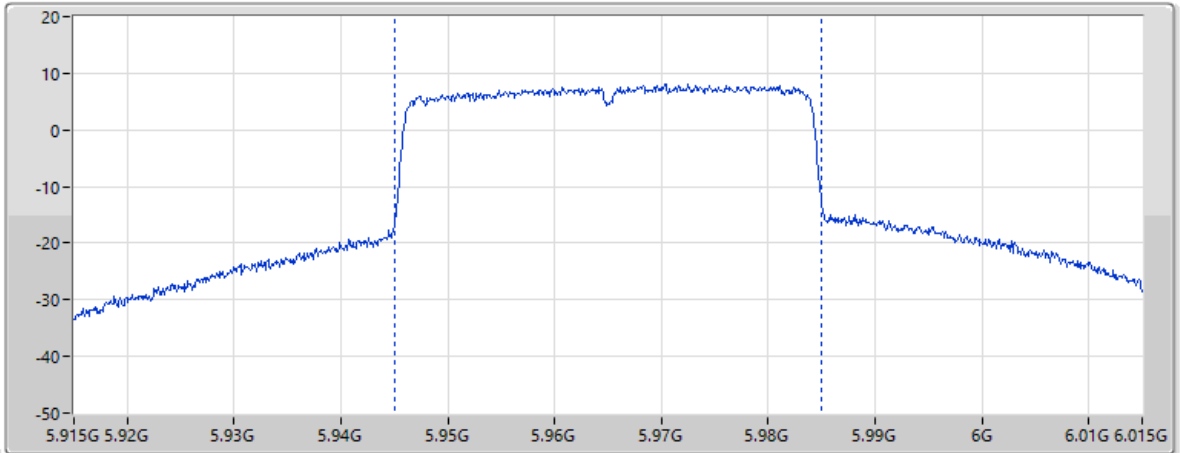
Radiated EIRP_Non-Beamforming_Radio 3_ Dipole Antenna_1T1S

Appendix C.1

05/03/2025

EIRP;Band:6.2G;be40;BWch:40MHz;Nss:1,(M0);Nant:1(1);Ch:5965MHz;TX

CF Freq
5.965GHz
Span
100MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS
CP BW
40MHz



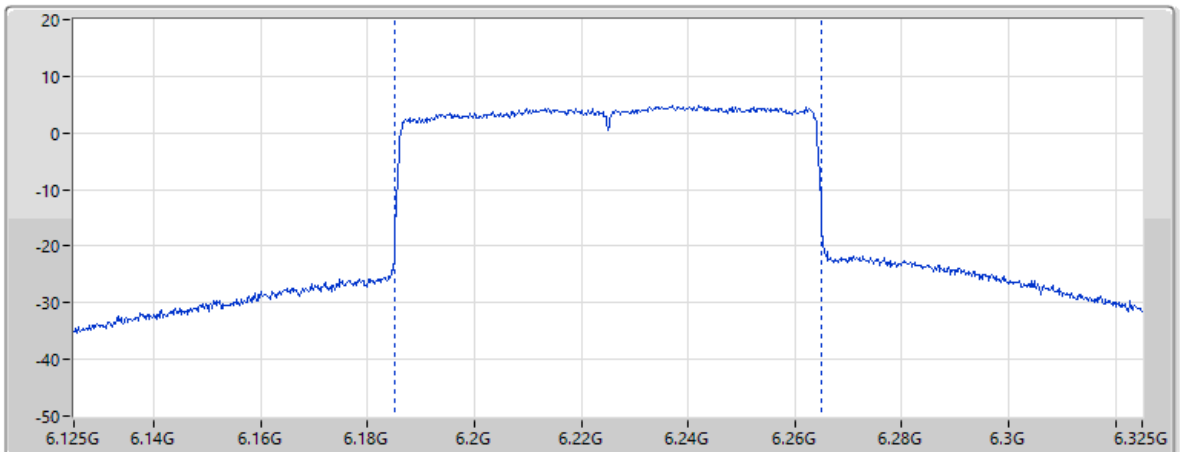
Page 7

EIRP (dBm)		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
23.63				
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
9.88	11.23	5.24	37.81	57.55

05/03/2025

EIRP;Band:6.2G;be80;BWch:80MHz;Nss:1,(M0);Nant:1(1);Ch:6225MHz;TX

CF Freq
6.225GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
2ms
Detector Type
RMS
CP BW
80MHz

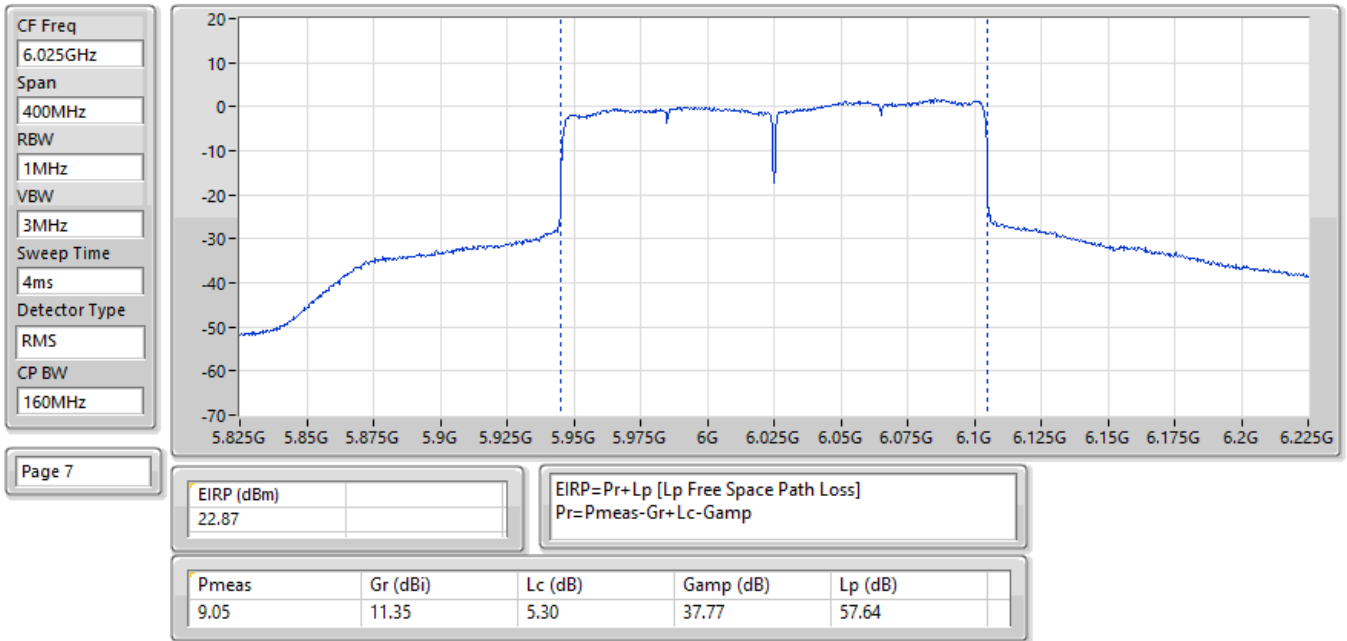


Page 7

EIRP (dBm)		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
23.73				
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
9.50	11.45	5.39	37.64	57.93

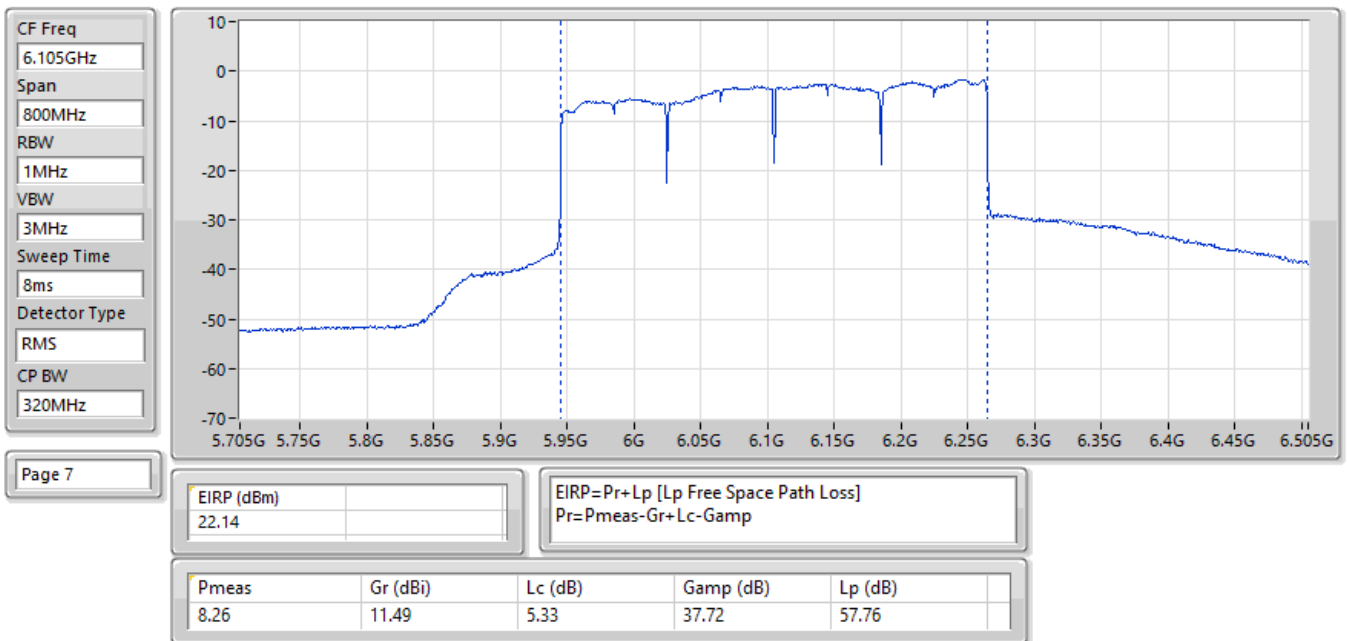
06/03/2025

EIRP:Band:6.2G;be160;BWch:160MHz;Nss:1,(M0);Nant:1(1);Ch:6025MHz;TX



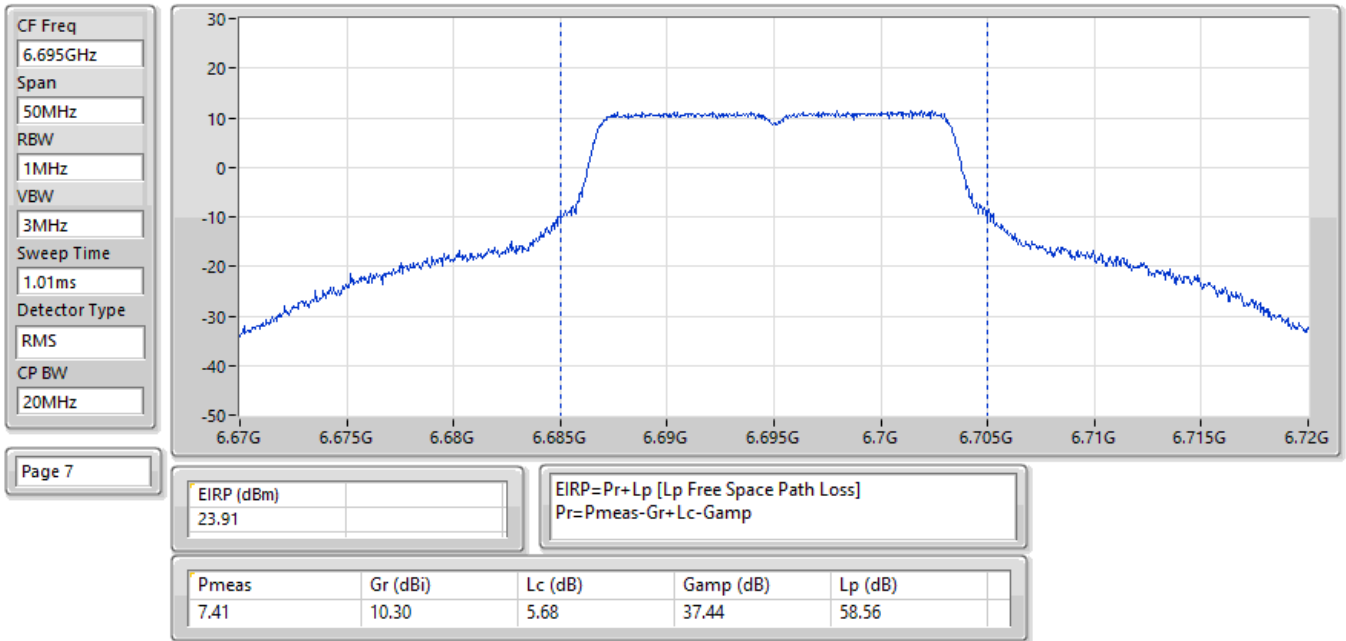
05/03/2025

EIRP:Band:6.2G;be320;BWch:320MHz;Nss:1,(M0);Nant:1(1);Ch:6105MHz;TX



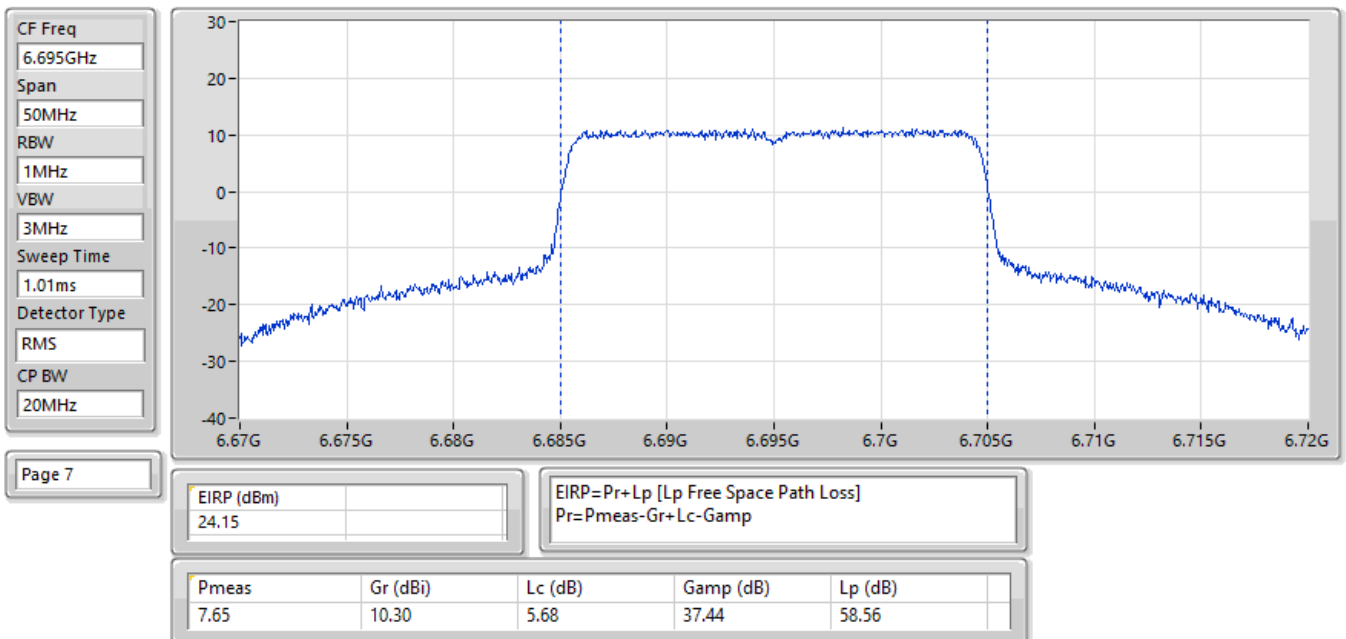
05/03/2025

EIRP;Band:6.7G;11a;BWch:20MHz;Nss:1,(6D);Nant:1(1);Ch:6695MHz;TX



05/03/2025

EIRP;Band:6.7G;be20;BWch:20MHz;Nss:1,(M0);Nant:1(1);Ch:6695MHz;TX



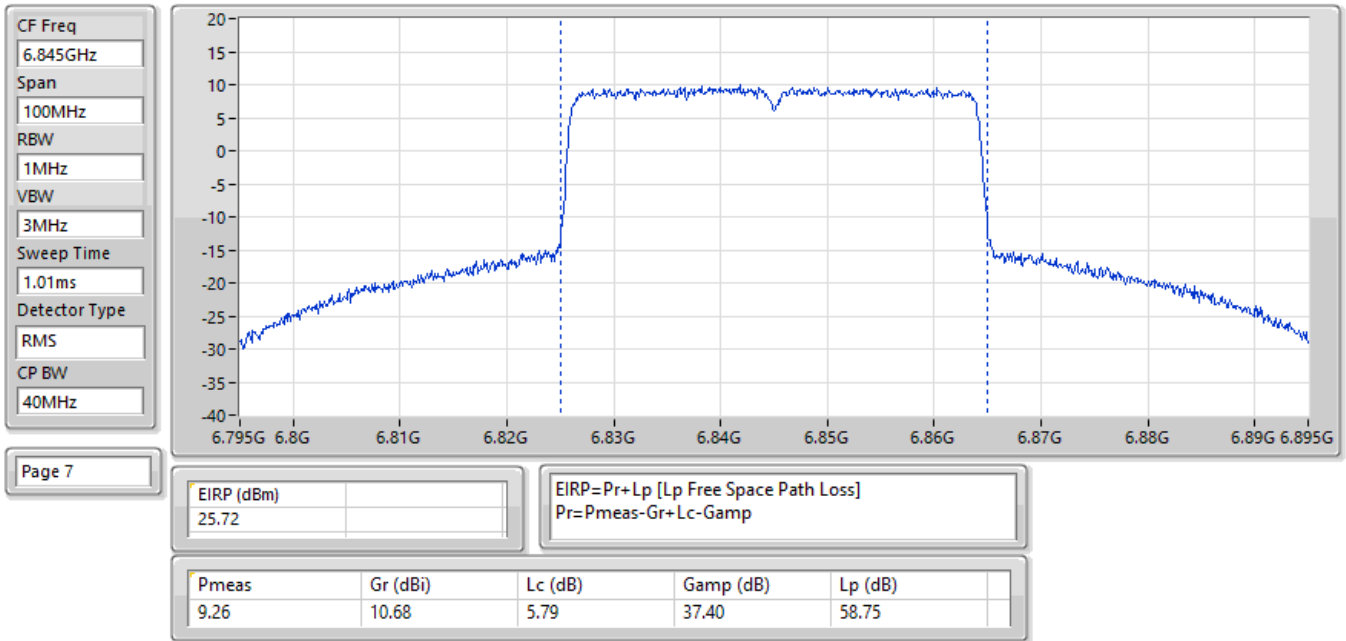


Radiated EIRP_Non-Beamforming_Radio 3_ Dipole Antenna_1T1S

Appendix C.1

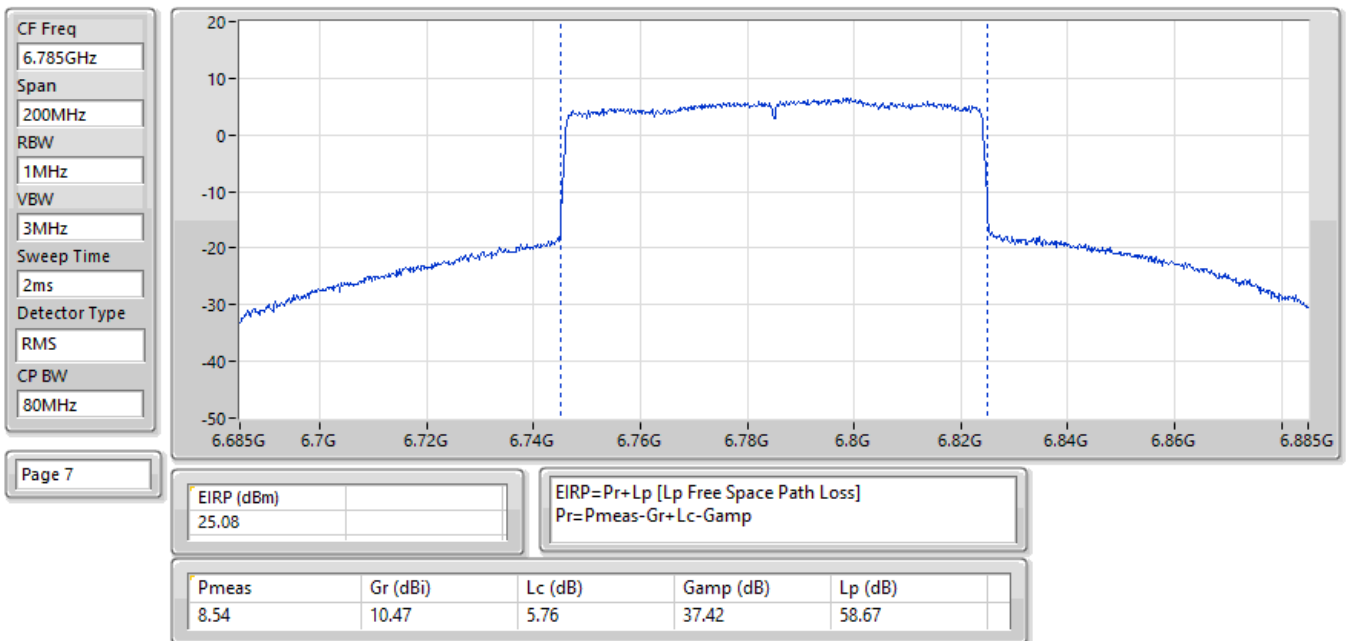
05/03/2025

EIRP;Band:6.7G;be40;BWch:40MHz;Nss:1,(M0);Nant:1(1);Ch:6845MHz;TX



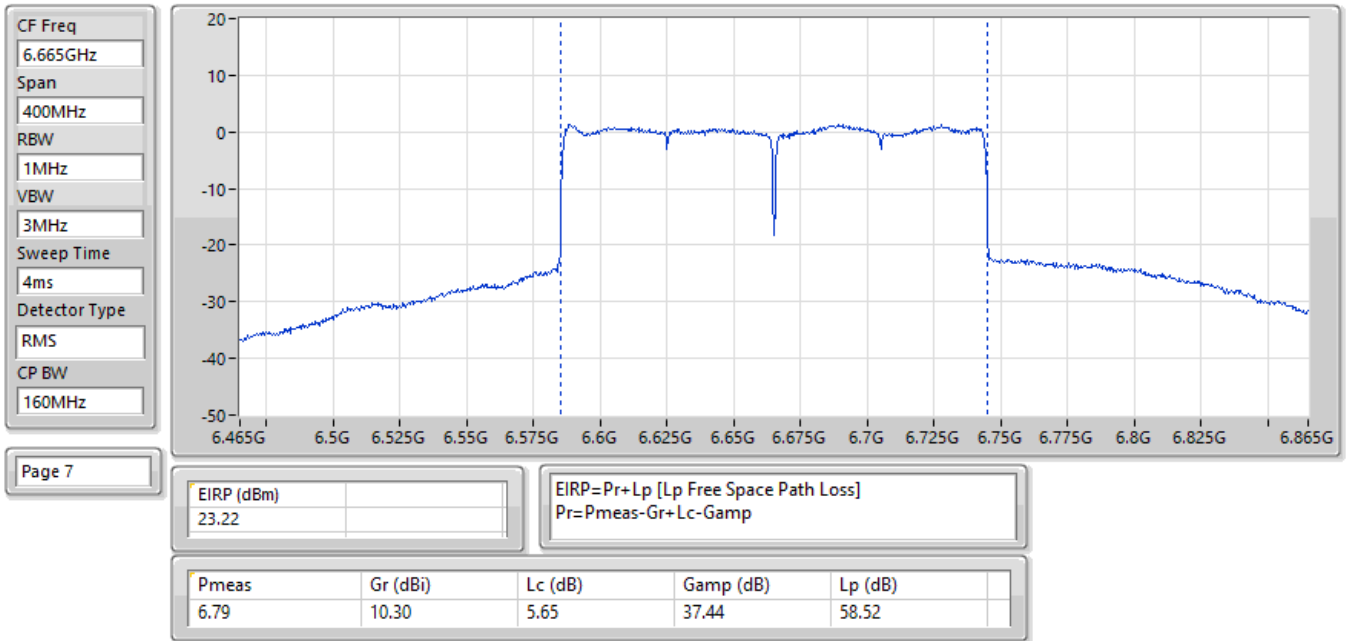
05/03/2025

EIRP;Band:6.7G;be80;BWch:80MHz;Nss:1,(M0);Nant:1(1);Ch:6785MHz;TX



05/03/2025

EIRP;Band:6.7G;be160;BWch:160MHz;Nss:1,(M0);Nant:1(1);Ch:6665MHz;TX





**Radiated EIRP_Non-Beamforming_Radio 3_
Dipole Antenna_2T1S**

Appendix C.2

Summary

Mode	EIRP (dBm)	EIRP (W)
5.925-6.425GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	26.47	0.44361
802.11be EHT20_Nss1,(MCS0)_2TX	26.59	0.45604
802.11be EHT40_Nss1,(MCS0)_2TX	25.97	0.39537
802.11be EHT80_Nss1,(MCS0)_2TX	26.04	0.40179
802.11be EHT160_Nss1,(MCS0)_2TX	26.03	0.40087
802.11be EHT320_Nss1,(MCS0)_2TX	24.96	0.31333
6.525-6.875GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	27.44	0.55463
802.11be EHT20_Nss1,(MCS0)_2TX	27.25	0.53088
802.11be EHT40_Nss1,(MCS0)_2TX	27.68	0.58614
802.11be EHT80_Nss1,(MCS0)_2TX	26.94	0.49431
802.11be EHT160_Nss1,(MCS0)_2TX	26.27	0.42364



Radiated EIRP_Non-Beamforming_Radio 3_ Dipole Antenna_2T1S

Appendix C.2

Result

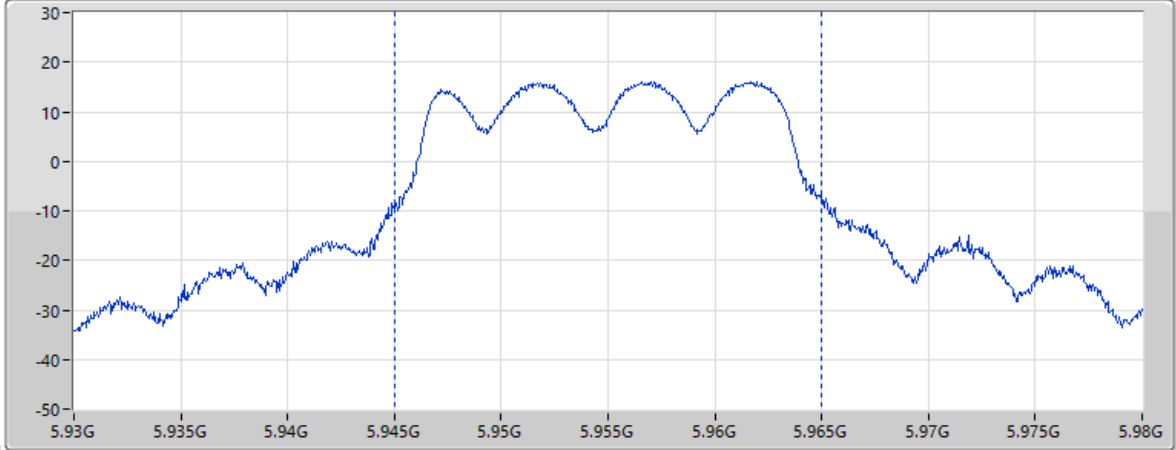
Mode	Result	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-
5955MHz	Pass	26.47	36.00
6195MHz	Pass	24.19	36.00
6415MHz	Pass	24.58	36.00
6535MHz	Pass	26.03	36.00
6695MHz	Pass	25.94	36.00
6855MHz	Pass	27.44	36.00
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-
5955MHz	Pass	26.59	36.00
6195MHz	Pass	24.35	36.00
6415MHz	Pass	24.63	36.00
6535MHz	Pass	26.21	36.00
6695MHz	Pass	26.34	36.00
6855MHz	Pass	27.25	36.00
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-
5965MHz	Pass	25.97	36.00
6205MHz	Pass	24.47	36.00
6405MHz	Pass	24.86	36.00
6565MHz	Pass	25.72	36.00
6685MHz	Pass	26.21	36.00
6845MHz	Pass	27.68	36.00
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-
5985MHz	Pass	26.04	36.00
6225MHz	Pass	24.97	36.00
6385MHz	Pass	25.00	36.00
6625MHz	Pass	26.50	36.00
6705MHz	Pass	26.18	36.00
6785MHz	Pass	26.94	36.00
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-
6025MHz	Pass	26.03	36.00
6185MHz	Pass	24.63	36.00
6345MHz	Pass	24.87	36.00
6665MHz	Pass	26.27	36.00
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-
6105MHz	Pass	24.96	36.00
6265MHz	Pass	24.35	36.00

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

05/03/2025

EIRP;Band:6.2G;11a;BWch:20MHz;Nss:1,(6D);Nant:2;Ch:5955MHz;TX

CF Freq
5.955GHz
Span
50MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS
CP BW
20MHz



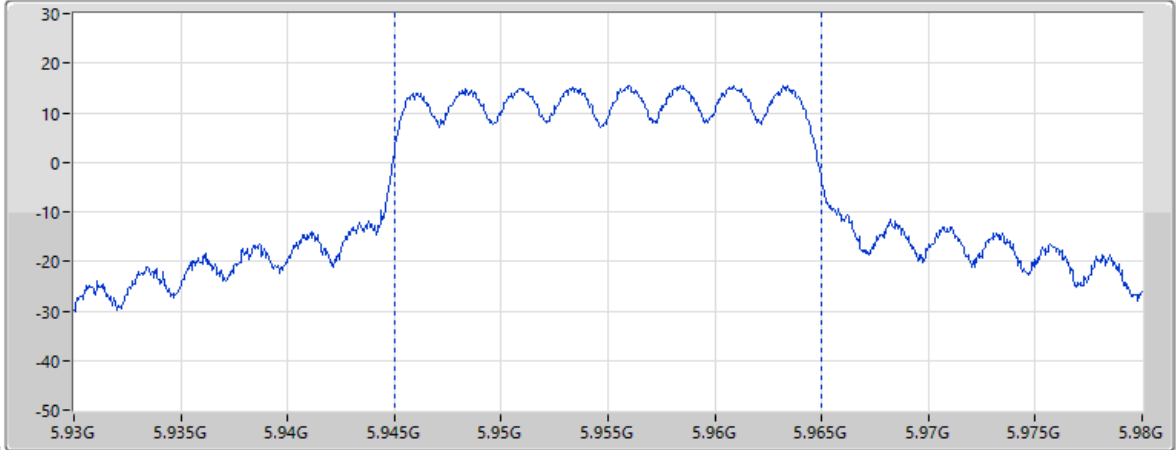
Page 7

EIRP (dBm) 26.47		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
12.74	11.21	5.22	37.82	57.54

05/03/2025

EIRP;Band:6.2G;be20;BWch:20MHz;Nss:1,(M0);Nant:2;Ch:5955MHz;TX

CF Freq
5.955GHz
Span
50MHz
RBW
1MHz
VBW
3MHz
Sweep Time
1.01ms
Detector Type
RMS
CP BW
20MHz



Page 7

EIRP (dBm) 26.59		EIRP=Pr+Lp [Lp Free Space Path Loss] Pr=Pmeas-Gr+Lc-Gamp		
Pmeas	Gr (dBi)	Lc (dB)	Gamp (dB)	Lp (dB)
12.86	11.21	5.22	37.82	57.54

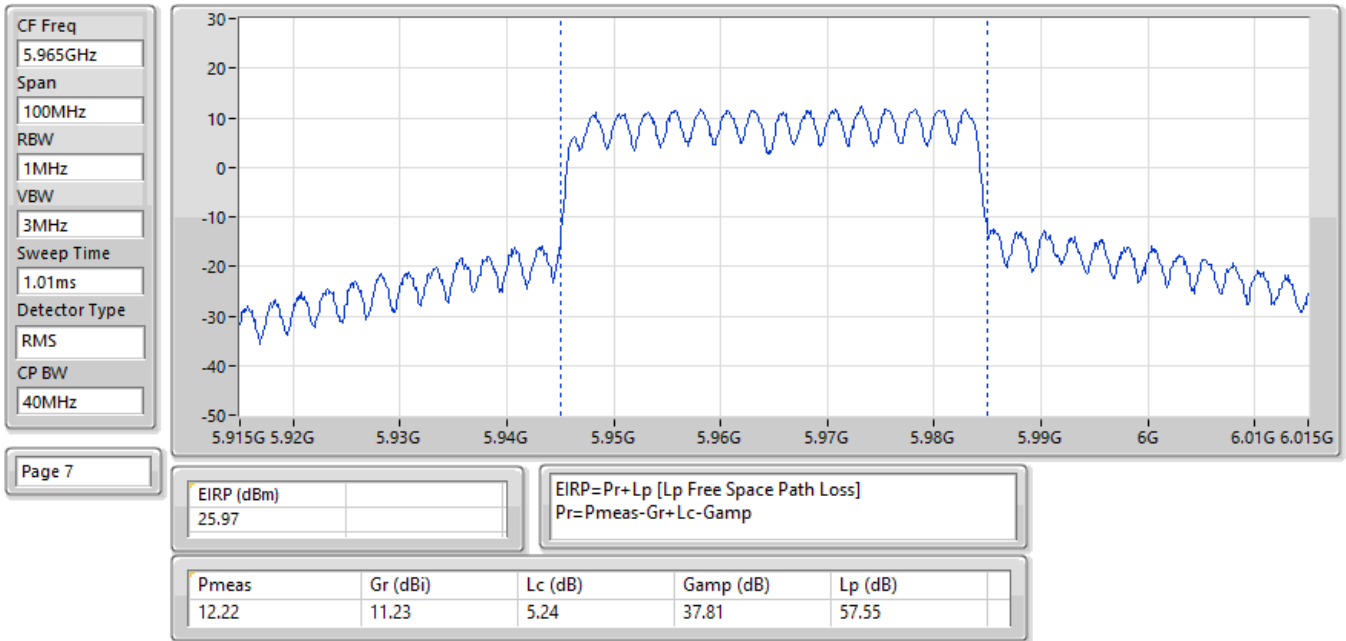


Radiated EIRP_Non-Beamforming_Radio 3_ Dipole Antenna_2T1S

Appendix C.2

05/03/2025

EIRP:Band:6.2G;be40;BWch:40MHz;Nss:1,(M0);Nant:2;Ch:5965MHz;TX



06/03/2025

EIRP:Band:6.2G;be80;BWch:80MHz;Nss:1,(M0);Nant:2;Ch:5985MHz;TX

