



RADIO TEST REPORT

FCC ID : QXO-AP5020
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP5020
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 Dec. 14, 2023, and testing was started from Jan. 11, 2024 and completed on Apr. 03, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Approved by: Sam Chen

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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_5 Ver1.1



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 Isotopically Radiated Power (E.I.R.P.)	PASS	-
-	15.407(a)	Proper Power Adjustment	N/A	Non-Dual Client or non-Standard Client w/o test
3.4	15.407(a)	Peak Power Spectral Density (E.I.R.P.)	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-
3.6	15.407(d)	Contention-Based Protocol	PASS	-

Conformity Assessment Condition:

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

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen**Report Producer: Lavender Zeng**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925-7125	ax (HEW20), be (EHT20)	5955-7095	1-229 [58]
5925-7125	ax (HEW40), be (EHT40)	5965-7085	3-227 [29]
5925-7125	ax (HEW80), be (EHT80)	5985-7025	7-215 [14]
5925-7125	ax (HEW160), be (EHT160)	6025-6985	15-207 [7]
5925-7125	be (EHT320)	6105-6905	31-191 [6]

<Radio 1>

Band	Mode	BWch (MHz)	Nant
UNII 5-8	ax (HEW20)	20	2TX
UNII 5-8	ax (HEW20)-BF	20	2TX
UNII 5-8	be (EHT20)	20	2TX
UNII 5-8	be (EHT20)-BF	20	2TX
UNII 5-8	ax (HEW40)	40	2TX
UNII 5-8	ax (HEW40)-BF	40	2TX
UNII 5-8	be (EHT40)	40	2TX
UNII 5-8	be (EHT40)-BF	40	2TX
UNII 5-8	ax (HEW80)	80	2TX
UNII 5-8	ax (HEW80)-BF	80	2TX
UNII 5-8	be (EHT80)	80	2TX
UNII 5-8	be (EHT80)-BF	80	2TX
UNII 5-8	ax (HEW160)	160	2TX
UNII 5-8	ax (HEW160)-BF	160	2TX
UNII 5-8	be (EHT160)	160	2TX
UNII 5-8	be (EHT160)-BF	160	2TX

<For Radio 3>

Band	Mode	BWch (MHz)	Nant
UNII 5-8	ax (HEW20)	20	2TX/4TX
UNII 5-8	ax (HEW20)-BF	20	2TX/4TX
UNII 5-8	be (EHT20)	20	2TX/4TX
UNII 5-8	be (EHT20)-BF	20	2TX/4TX



Band	Mode	BWch (MHz)	Nant
UNII 5-8	ax (HEW40)	40	2TX/4TX
UNII 5-8	ax (HEW40)-BF	40	2TX/4TX
UNII 5-8	be (EHT40)	40	2TX/4TX
UNII 5-8	be (EHT40)-BF	40	2TX/4TX
UNII 5-8	ax (HEW80)	80	2TX/4TX
UNII 5-8	ax (HEW80)-BF	80	2TX/4TX
UNII 5-8	be (EHT80)	80	2TX/4TX
UNII 5-8	be (EHT80)-BF	80	2TX/4TX
UNII 5-8	ax (HEW160)	160	2TX/4TX
UNII 5-8	ax (HEW160)-BF	160	2TX/4TX
UNII 5-8	be (EHT160)	160	2TX/4TX
UNII 5-8	be (EHT160)-BF	160	2TX/4TX
UNII 5-8	be (EHT320)	320	2TX/4TX
UNII 5-8	be (EHT320)-BF	320	2TX/4TX

Note:

- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- EHT20, EHT40, EHT80 and EHT160, EHT320 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Operating Band	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	WLAN 2.4GHz / 5GHz	Sercomm	6172001TJH.20	PIFA	I-PEX	Note 1
2	WLAN 2.4GHz / 5GHz	Sercomm	6172001TJH.21	PIFA	I-PEX	
3	WLAN 2.4GHz / 5GHz	Sercomm	6172001TJH.22	PIFA	I-PEX	
4	WLAN 2.4GHz / 5GHz	Sercomm	6172001TJH.23	PIFA	I-PEX	
5	WLAN 6GHz	Sercomm	6172001TJH.24	PIFA	I-PEX	
6	WLAN 6GHz	Sercomm	6172001TJH.25	PIFA	I-PEX	
7	WLAN 6GHz	Sercomm	6172001TJH.26	PIFA	I-PEX	
8	WLAN 6GHz	Sercomm	6172001TJH.27	PIFA	I-PEX	
9	WLAN 5GHz / 6GHz	Sercomm	6172001TJH.28	PIFA	I-PEX	
10	WLAN 5GHz / 6GHz	Sercomm	6172001TJH.29	PIFA	I-PEX	
11	Bluetooth / Zigbee	Sercomm	6172001TJH.30	PIFA	I-PEX	4.22
12	Bluetooth / Zigbee	Sercomm	6172001TJH.31	PIFA	I-PEX	4.12
13	Bluetooth / Zigbee	Sercomm	6172001TJH.32	PIFA	I-PEX	4.19
14	GPS	Sercomm	6172001TJH.33	PIFA	I-PEX	1.176GHz: 4.50 1.575GHz: 4.20

Ant.	Port							
	2.4GHz (Radio 1)	2.4GHz (Radio 3)	5GHz (Radio 1)	5GHz (Radio 2)	6GHz (Radio 1)	6GHz (Radio 3)	Bluetooth / Zigbee	GPS
1	1	-	-	1	-	-	-	-
2	2	-	-	2	-	-	-	-
3	3	1	-	3	-	-	-	-
4	4	2	-	4	-	-	-	-
5	-	-	-	-	-	1	-	-
6	-	-	-	-	-	2	-	-
7	-	-	-	-	-	3	-	-
8	-	-	-	-	-	4	-	-
9	-	-	1	-	1	-	-	-
10	-	-	2	-	2	-	-	-
11	-	-	-	-	-	-	1	-
12	-	-	-	-	-	-	2	-
13	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	1



Note 1:

Ant.	Antenna Gain (dBi)								
	2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3	6GHz UNII 5	6GHz UNII 6	6GHz UNII 7	6GHz UNII 8
1	2.91	4.88	4.99	5.07	5.29	-	-	-	-
2	3.17	3.95	3.41	5.00	5.07	-	-	-	-
3	2.98	4.49	4.06	4.40	3.93	-	-	-	-
4	2.64	4.75	4.07	4.71	4.40	-	-	-	-
5	-	-	-	-	-	5.33	4.93	5.50	4.83
6	-	-	-	-	-	5.41	4.54	5.26	5.39
7	-	-	-	-	-	5.95	5.96	4.82	4.77
8	-	-	-	-	-	5.79	5.88	5.89	5.91
9	-	3.07	2.35	2.59	3.21	2.71	2.66	4.37	3.21
10	-	3.01	2.66	3.88	4.23	4.41	3.82	3.37	4.42
11	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-

Ant.	Item	Directional gain (dBi)								
		2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3	6GHz UNII 5	6GHz UNII 6	6GHz UNII 7	6GHz UNII 8
1~4 (4TX)	4T1S	6.00	8.49	7.89	8.04	7.52	-	-	-	-
	4T2S	3.17	5.49	4.99	5.07	5.29	-	-	-	-
	4T3S	3.17	4.88	4.99	5.07	5.29	-	-	-	-
1~2 (2TX)	2T1S	3.9	7.09	6.19	6.33	5.81	-	-	-	-
	2T2S	3.17	4.88	4.99	5.07	5.29	-	-	-	-
3~4 (2TX)	2T1S	3.05	5.48	5.79	6.26	5.87	-	-	-	-
	2T2S	2.98	4.75	4.07	4.71	4.40	-	-	-	-
5~8 (4TX)	4T1S	-	-	-	-	-	9.23	8.77	9.49	9.13
	4T2S	-	-	-	-	-	6.23	5.96	6.49	6.13
	4T3S	-	-	-	-	-	5.95	5.96	5.89	5.91
5~6 (2TX)	2T1S	-	-	-	-	-	7.38	6.63	8.00	7.03
	2T2S	-	-	-	-	-	5.41	4.93	5.50	5.39
9~10 (2TX)	2T1S	-	4.51	4.52	6.00	5.95	5.82	4.82	5.36	5.47
	2T2S	-	3.07	2.66	3.88	4.23	4.41	3.82	4.37	4.42

Note 2: The above information (excepting WLAN gain) was declared by manufacturer.



Note 3: The antenna gain (WLAN) and directional gain (WLAN) are measured which follow the procedure of KDB 662911 D03.

Note 4: The Bluetooth / Zigbee function of Antenna 13 is not enabled at this time.

Note 5: The DFS band is not enabled at this time.

Note 6:

<For Radio 1>

2.4GHz Function

IEEE 802.11b/g/n/VHT/ax/be

For 2TX/2RX:

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 2TX/4RX:

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antenna, but only Port 1 and Port 2 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously, but only Port 1 and Port 2 could transmit simultaneously.

For 4TX/4RX:

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

5GHz Function

IEEE 802.11a/n/ac/ax/be

UNII 1~UNII 3:

For 2RX:

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

Port 1 and Port 2 could receive simultaneously.

UNII1~UNII 2A:

For 2TX/2RX:

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

6GHz Function

IEEE 802.11ax/be

For 2TX/2RX:

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For Radio 2>

5GHz Function

IEEE 802.11a/n/ac/ax/be

For 2TX/4RX:

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antenna, but only Port 1 and Port 2 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously, but only Port 1 and Port 2 could transmit simultaneously.

For 4TX/4RX:

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**<For Radio 3>****2.4GHz Function****IEEE 802.11b/g/n/VHT/ax/be****For 1TX/2RX:**

Port 1 and Port 2 can be used as receiving antenna, but only Port 1 can be used as transmitting antenna.
Port 1 and Port 2 could receive simultaneously.

For 2TX/2RX:

Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.

6GHz Function**IEEE 802.11ax/be****For 2TX/4RX:**

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antenna, but only Port 1 and Port 2 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously, but only Port 1 and Port 2 could transmit simultaneously.

For 4TX/4RX:

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

<For Radio 4>**Bluetooth/Zigbee Functions****For 1TX/1RX:**

The EUT supports the antenna with TX and RX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.
The Port 1 generated the worst case, so it was selected to test and record in the report.

**1.1.3 Mode Test Duty Cycle**

<Radio 1>

For UNII 5_2T1S:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss 1	0.915	0.39	3.103m	1k
802.11be EHT40-BF_Nss 1	0.957	0.19	4.619m	300
802.11be EHT80-BF_Nss 1	0.938	0.28	4.417m	300
802.11be EHT160-BF_Nss 1	0.934	0.3	5.101m	300

For UNII 5_2T2S:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss 2,(M0)	0.955	0.2	787.5u	3k
802.11be EHT40_Nss 2,(M0)	0.929	0.32	430u	3k
802.11be EHT80_Nss 2,(M0)	0.883	0.54	247.813u	10k
802.11be EHT160_Nss 2,(M0)	0.849	0.71	165.125u	10k

For UNII 5-8:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss 1,(M0)	0.976	0.11	1.496m	1k
802.11be EHT40_Nss 1,(M0)	0.959	0.18	780.313u	3k
802.11be EHT80_Nss 1,(M15)	0.96	0.18	749.063u	3k
802.11be EHT160_Nss 1,(M15)	0.926	0.33	409.063u	3k

<Radio 3>

For 2TX_Non-beamforming:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20_Nss1,(MCS0)_2TX	0.98	0.09	1.498m	10
802.11be EHT40_Nss1,(MCS0)_2TX	0.963	0.16	782.5u	3k
802.11be EHT80_Nss1,(MCS0)_2TX	0.929	0.32	410u	3k
802.11be EHT160_Nss1,(MCS0)_2TX	0.886	0.53	241.25u	10k
802.11be EHT320_Nss1,(MCS0)_2TX	0.839	0.76	160u	10k
802.11be EHT20_Nss2,(MCS0)_2TX	0.963	0.16	788.75u	3k
802.11be EHT40_Nss2,(MCS0)_2TX	0.932	0.31	431.25u	3k
802.11be EHT80_Nss2,(MCS0)_2TX	0.89	0.51	248.75u	10k
802.11be EHT160_Nss2,(MCS0)_2TX	0.844	0.74	163.75u	10k
802.11be EHT320_Nss2,(MCS0)_2TX	0.799	0.97	122.5u	10k

For 2TX_Beamforming:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss 1,(M0)	0.987	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT40-BF_Nss 1,(M0)	0.99	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT80-BF_Nss 1,(M0)	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT160-BF_Nss 1,(M0)	0.987	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT320-BF_Nss 1,(M0)	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)

**For 4TX_Non-beamforming:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11be EHT20_Nss 1,(M0)	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT40_Nss 1,(M0)	0.963	0.16	782.5u	3k
802.11be EHT80_Nss 1,(M0)	0.934	0.3	412.5u	3k
802.11be EHT160_Nss 1,(M0)	0.893	0.49	242.5u	10k
802.11be EHT320_Nss 1,(M0)	0.844	0.74	162.5u	10k
802.11be EHT20_Nss 4,(M0)	0.934	0.3	446.25u	3k
802.11be EHT40_Nss 4,(M0)	0.898	0.47	268.75u	10k
802.11be EHT80_Nss 4,(M0)	0.853	0.69	177.5u	10k
802.11be EHT160_Nss 4,(M0)	0.813	0.9	132.5u	10k
802.11be EHT320_Nss 4,(M0)	0.795	1	117.5u	10k

For 4TX_Beamforming:

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11be EHT20-BF_Nss 1,(M0)	0.99	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT40-BF_Nss 1,(M0)	0.987	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT80-BF_Nss 1,(M0)	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT160-BF_Nss 1,(M0)	0.987	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT320-BF_Nss 1,(M0)	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter / PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/11ax/11be in 2.4GHz, 11n/11ac/11ax/11be in 5GHz and 11ax/11be in 6GHz.			
Device Type	☒	Indoor Access Point	☐	Subordinate
	☐	Indoor Client	☐	Standard Power Access Point
	☐	Dual Client	☐	Standard Client
	☐	Fixed Client	☐	Very Low Power
Condition of EUT	☒	Indoor	☐	Outdoor
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	AccessMTTool 3.3.0.4			
Software / Firmware Version for CBP	5.04L.04p3test3			

Note: The above information was declared by manufacturer.

**1.1.5 Table for EUT Information**

EUT	GPS Integrated Module
1	With
2	Without

Note 1: From the above EUTs, EUT 1 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for Radio Function

Radio	Support Band		
	2.4GHz	5GHz	6GHz
1	BW: 20MHz	2TX: UNII 1, 2RX: UNII 1&3 (scan) BW: 20/40/80MHz	UNII 5 or UNII 5~8 (scan) BW: 20/40/80/160MHz
2	-	UNII 3 or UNII 1&3 BW: 20/40/80MHz	-
3	BW: 20MHz	-	UNII 7~8 or UNII 5~8 BW: 20/40/80/160/320MHz
4	Bluetooth / Zigbee		
5	GPS		

Note: The above information was declared by manufacturer.

1.1.7 Table for EUT Operation Mode

Mode	Radio 1	Radio 2	Radio 3	Radio 4	Radio 5	Note
1	2.4GHz 4x4	5GHz (UNII 1&3) 4x4	6GHz (UNII 5~8) 4x4	Bluetooth or Zigbee	GPS	Tri Radio
2	2.4GHz 2x2 (TX) / 5GHz (2RX) / 6GHz (2RX)	5GHz (UNII 1&3) 4x4	6GHz (UNII 5~8) 4x4	Bluetooth or Zigbee	GPS	Full Band w/Scan
3	5GHz (UNII 1) 2x2	5GHz (UNII 3) 4x4	6GHz (UNII 5~8) 4x4	Bluetooth or Zigbee	GPS	Dual 5GHz w/6GHz
4	6GHz 2x2 (TX) / 2.4GHz (2RX) / 5GHz (2RX)	5GHz (UNII 1&3) 4x4	2.4GHz 2x2	Bluetooth or Zigbee	GPS	DBDC w/Scan
5	5GHz (UNII 1) 2x2	5GHz (UNII 3) 4x4	2.4GHz 2x2	Bluetooth or Zigbee	GPS	Dual 5GHz w/2.4GHz
6	6GHz (UNII 5) 2x2	5GHz (UNII 1&3) 4x4	6GHz (UNII 7~8) 4x4	Bluetooth or Zigbee	GPS	Dual 6GHz w/5GHz

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.407
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01

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

- ♦ FCC KDB 987594 D02 v02r01
- ♦ FCC KDB 662911 D03 v01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted (For other tests)	TH01-CB	KJ Chang	21.7~23.2 / 65~69	Jan. 15, 2024 ~ Mar. 28, 2024
RF Radiated (Above 1GHz/E.I.R.P. Power/PSD)	03CH01-CB	George Fan	21.2-22.3 / 56-59	Jan. 11, 2024 ~ Apr. 02, 2024
	03CH03-CB	George Fan	21.5-22.5 / 55-58	Jan. 11, 2024 ~ Apr. 02, 2024
Radiated <Below 1GHz>	03CH06-CB	George Fan	21.4-22.5 / 55-58	Jan. 11, 2024 ~ Apr. 02, 2024
AC Conduction	CO01-CB	Gray Lee	23~24 / 60~61	Apr. 03, 2024
RF Conducted (Contention-Based Protocol test)	DF01-CB	Eddie Weng	22.1~22.8 / 61~65	Mar. 22, 2024 ~ Mar. 27, 2024



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

<Radio 1>

For UNII 5_2T1S:

Mode
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
802.11be EHT80-BF_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
802.11be EHT160-BF_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz

For UNII 5_2T2S:

Mode
802.11be EHT20_Nss2,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
802.11be EHT40_Nss2,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
802.11be EHT80_Nss2,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
802.11be EHT160_Nss2,(MCS0)_2TX
6025MHz
6185MHz
6345MHz

For UNII 5-8:

Mode
802.11be EHT20_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz



6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS15)_2TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS15)_2TX
6025MHz
6185MHz
6345MHz
6505MHz
6665MHz
6825MHz
6985MHz

<Radio 3>**For 2TX_Non-beamforming:**

Mode
802.11be EHT20_Nss1,(MCS0)_2TX
5955MHz
6195MHz



6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz Straddle 6.525-6.875GHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz Straddle 6.425-6.525GHz
6565MHz
6685MHz
6885MHz Straddle 6.525-6.875GHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz Straddle 6.425-6.525GHz
6625MHz
6705MHz
6785MHz
6865MHz Straddle 6.525-6.875GHz
6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6505MHz Straddle 6.425-6.525GHz
6665MHz
6825MHz Straddle 6.525-6.875GHz
6985MHz
802.11be EHT320_Nss1,(MCS0)_2TX
6105MHz
6265MHz
6425MHz Straddle 5.925-6.425GHz
6585MHz Straddle 6.425-6.525GHz
6745MHz Straddle 6.525-6.875GHz



6905MHz Straddle 6.525-6.875GHz
802.11be EHT20_Nss2,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz Straddle 6.525-6.875GHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss2,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz Straddle 6.425-6.525GHz
6565MHz
6685MHz
6885MHz Straddle 6.525-6.875GHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss2,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz Straddle 6.425-6.525GHz
6625MHz
6705MHz
6785MHz
6865MHz Straddle 6.525-6.875GHz
6945MHz
7025MHz
802.11be EHT160_Nss2,(MCS0)_2TX
6025MHz
6185MHz
6345MHz
6505MHz Straddle 6.425-6.525GHz
6665MHz
6825MHz Straddle 6.525-6.875GHz
6985MHz
802.11be EHT320_Nss2,(MCS0)_2TX
6105MHz



6265MHz
6425MHz Straddle 5.925-6.425GHz
6585MHz Straddle 6.425-6.525GHz
6745MHz Straddle 6.525-6.875GHz
6905MHz Straddle 6.525-6.875GHz

For 2TX Beamforming:

Mode
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz
802.11be EHT80-BF_Nss1,(MCS0)_2TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160-BF_Nss1,(MCS0)_2TX
6025MHz
6185MHz
6345MHz



6505MHz
6665MHz
6825MHz
6985MHz
802.11be EHT320-BF_Nss1,(MCS0)_2TX
6105MHz
6265MHz
6425MHz
6585MHz
6745MHz
6905MHz

For 4TX_Non-beamforming:

Mode
802.11be EHT20_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz Straddle 6.525-6.875GHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz Straddle 6.425-6.525GHz
6565MHz
6685MHz
6885MHz Straddle 6.525-6.875GHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz Straddle 6.425-6.525GHz
6625MHz
6705MHz
6785MHz
6865MHz Straddle 6.525-6.875GHz



6945MHz
7025MHz
802.11be EHT160_Nss1,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6505MHz Straddle 6.425-6.525GHz
6665MHz
6825MHz Straddle 6.525-6.875GHz
6985MHz
802.11be EHT320_Nss1,(MCS0)_4TX
6105MHz
6265MHz
6425MHz Straddle 5.925-6.425GHz
6585MHz Straddle 6.425-6.525GHz
6745MHz Straddle 6.525-6.875GHz
6905MHz Straddle 6.525-6.875GHz
802.11be EHT20_Nss4,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz Straddle 6.525-6.875GHz
6895MHz
6995MHz
7095MHz
802.11be EHT40_Nss4,(MCS0)_4TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz Straddle 6.425-6.525GHz
6565MHz
6685MHz
6885MHz Straddle 6.525-6.875GHz
6925MHz
7005MHz
7085MHz
802.11be EHT80_Nss4,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz Straddle 6.425-6.525GHz



6625MHz
6705MHz
6785MHz
6865MHz Straddle 6.525-6.875GHz
6945MHz
7025MHz
802.11be EHT160_Nss4,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6505MHz Straddle 6.425-6.525GHz
6665MHz
6825MHz Straddle 6.525-6.875GHz
6985MHz
802.11be EHT320_Nss4,(MCS0)_4TX
6105MHz
6265MHz
6425MHz Straddle 5.925-6.425GHz
6585MHz Straddle 6.425-6.525GHz
6745MHz Straddle 6.525-6.875GHz
6905MHz Straddle 6.525-6.875GHz

For 4TX_Beamforming:

Mode
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5955MHz
6195MHz
6415MHz
6435MHz
6475MHz
6515MHz
6535MHz
6695MHz
6875MHz
6895MHz
6995MHz
7095MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5965MHz
6205MHz
6405MHz
6445MHz
6485MHz
6525MHz
6565MHz
6685MHz
6885MHz
6925MHz
7005MHz
7085MHz



802.11be EHT80-BF_Nss1,(MCS0)_4TX
5985MHz
6225MHz
6385MHz
6465MHz
6545MHz
6625MHz
6705MHz
6785MHz
6865MHz
6945MHz
7025MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
6025MHz
6185MHz
6345MHz
6505MHz
6665MHz
6825MHz
6985MHz
802.11be EHT320-BF_Nss1,(MCS0)_4TX
6105MHz
6265MHz
6425MHz
6585MHz
6745MHz
6905MHz

Note:

- ♦ Evaluated EHT20/EHT40/EHT80/EHT160/EHT320 mode only due to the similar modulation. The power setting of VHT20/VHT40/VHT80/VHT160 mode are the same or lower than EHT20/EHT40/EHT80/EHT160.



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
1	EUT 1 + Radio 1 (WLAN 2.4GHz) + Adapter
2	EUT 1 + Radio 1 (WLAN 2.4GHz) + PoE
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 ~ 9 will follow this same test mode.	
3	EUT 1 + Radio 1 (WLAN 5GHz) + PoE
4	EUT 1 + Radio 1 (WLAN 6GHz) + PoE
5	EUT 1 + Radio 2 (WLAN 5GHz) + PoE
6	EUT 1 + Radio 3 (WLAN 2.4GHz) + PoE
7	EUT 1 + Radio 3 (WLAN 6GHz) + PoE
8	EUT 1 + Radio 4 (Bluetooth) + PoE
9	EUT 1 + Radio 4 (Zigbee) + PoE
For operating mode 8 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth
Test Condition	Conducted measurement at transmit chains
1	EUT 1 + Radio 1_UNII 5 (2T1S) (Beamforming)
2	EUT 1 + Radio 1_UNII 5 (2T2S)
3	EUT 1 + Radio 1_UNII 5-8 (2T1S) (Non-beamforming)
4	EUT 1 + Radio 3_2TX (Non-beamforming)
5	EUT 1 + Radio 3_2TX (Beamforming)
6	EUT 1 + Radio 3_4TX (Non-beamforming)
7	EUT 1 + Radio 3_4TX (Beamforming)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Contention-Based Protocol
Test Condition	Conducted measurement at transmit chains
1	EUT 1 + Radio 1_UNII 5
2	EUT 1 + Radio 1_UNII 5-8 (scan mode)
3	EUT 1 + Radio 3

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.)
Test Condition	Radiated measurement
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below for Unwanted Emissions above 1GHz. Thus, the measurement will follow this same test configuration.
1	EUT 1 in Z axis + Radio 1_UNII 5 (2T1S) (Beamforming)
2	EUT 1 in Z axis + Radio 1_UNII 5 (2T2S)
3	EUT 1 in Z axis + Radio 1_UNII 5-8 (2T1S) (Non-beamforming)
4	EUT 1 in Z axis + Radio 3_2TX (Non-beamforming)
5	EUT 1 in Z axis + Radio 3_2TX (Beamforming)
6	EUT 1 in Z axis + Radio 3_4TX (Non-beamforming)
7	EUT 1 in Z axis + Radio 3_4TX (Beamforming)



The Worst Case Mode for Following Conformance Tests	
Tests Item	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
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below for Unwanted Emissions above 1GHz. Thus, the measurement will follow this same test configuration.
1	EUT 1 in X axis + Radio 1 (WLAN 2.4GHz) + Adapter
2	EUT 1 in X axis + Radio 1 (WLAN 2.4GHz) + PoE
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 ~ 9 will follow this same test mode.	
3	EUT 1 in Z axis + Radio 1 (WLAN 5GHz) + Adapter
4	EUT 1 in Z axis + Radio 1 (WLAN 6GHz) + Adapter
5	EUT 1 in Y axis + Radio 2 (WLAN 5GHz) + Adapter
6	EUT 1 in Y axis + Radio 3 (WLAN 2.4GHz) + Adapter
7	EUT 1 in Z axis + Radio 3 (WLAN 6GHz) + Adapter
8	EUT 1 in Z axis + Radio 4 (Bluetooth) + Adapter
9	EUT 1 in Z aixs + Radio 4 (Zigbee) + Adapter
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Z axis. So, the measurement will follow this same test configuration
1	EUT 1 in Z axis + Radio 1_UNII 5 (2T1S) (Beamforming)
2	EUT 1 in Z axis + Radio 1_UNII 5 (2T2S)
3	EUT 1 in Z axis + Radio 1_UNII 5-8 (2T1S) (Non-beamforming)
4	EUT 1 in Z axis + Radio 3_2TX (Non-beamforming)
5	EUT 1 in Z axis + Radio 3_2TX (Beamforming)
6	EUT 1 in Z axis + Radio 3_4TX (Non-beamforming)
7	EUT 1 in Z axis + Radio 3_4TX (Beamforming)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission MASK
Test Condition	Conducted measurement at transmit chains
1	EUT 1 + Radio 1_UNII 5 (2T1S) (Beamforming)
2	EUT 1 + Radio 1_UNII 5 (2T2S)
3	EUT 1 + Radio 1_UNII 5-8 (2T1S) (Non-beamforming)
4	EUT 1 + Radio 3_2TX (Non-beamforming)
5	EUT 1 + Radio 3_2TX (Beamforming)
6	EUT 1 + Radio 3_4TX (Non-beamforming)
7	EUT 1 + Radio 3_4TX (Beamforming)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Radio 1 (WLAN 2.4GHz) + Radio 2 (WLAN 5GHz/UNII 1&3) + Radio 3 (WLAN 6GHz/UNII 5~8) + Radio 4 (Zigbee)
2	Radio 1 (WLAN 2.4GHz) + Radio 2 (WLAN 5GHz/UNII 1&3) + Radio 3 (WLAN 6GHz/UNII 5~8) + Radio 4 (Bluetooth)
3	Radio 1 (WLAN 5GHz/UNII 1) + Radio 2 (WLAN 5GHz/UNII 3) + Radio 3 (WLAN 6GHz/UNII 5~8) + Radio 4 (Zigbee)
4	Radio 1 (WLAN 5GHz/UNII 1) + Radio 2 (WLAN 5GHz/UNII 3) + Radio 3 (WLAN 6GHz/UNII 5~8) + Radio 4 (Bluetooth)
5	Radio 1 (WLAN 6GHz/UNII 5~8) + Radio 2 (WLAN 5GHz/UNII 1&3) + Radio 3 (WLAN 2.4GHz) + Radio 4 (Zigbee)
6	Radio 1 (WLAN 6GHz/UNII 5~8) + Radio 2 (WLAN 5GHz/UNII 1&3) + Radio 3 (WLAN 2.4GHz) + Radio 4 (Bluetooth)
7	Radio 1 (WLAN 5GHz/UNII 1) + Radio 2 (WLAN 5GHz/UNII 3) + Radio 3 (WLAN 2.4GHz) + Radio 4 (Zigbee)
8	Radio 1 (WLAN 5GHz/UNII 1) + Radio 2 (WLAN 5GHz/UNII 3) + Radio 3 (WLAN 2.4GHz) + Radio 4 (Bluetooth)
9	Radio 1 (WLAN 6GHz/UNII 5) + Radio 2 (WLAN 5GHz/UNII 1&3) + Radio 3 (WLAN 6GHz/UNII 7~8) + Radio 4 (Zigbee)
10	Radio 1 (WLAN 6GHz/UNII 5) + Radio 2 (WLAN 5GHz/UNII 1&3) + Radio 3 (WLAN 6GHz/UNII 7~8) + Radio 4 (Bluetooth)
Refer to Sporton Test Report No.: FA410321 for Co-location RF Exposure Evaluation.	



Note: The PoE and adapter are for measurement only, would not be marketed.

PoE and adapter information as below:

Power	Brand Name	Model Name
PoE	PHIHONG	POE60U-1BT-X
Adapter	Powertron	PA1045-120HIB300

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Wireless AP.

2.4 Accessories

Accessories
Mount bracket *1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHIHONG	POE60U-1BT-X	N/A
B	PC	ASUS	S300TA	TX2-RTL8821CE
C	Flash disk3.0	Transcend	JetFlash-703	N/A

For Radiated (below 1GHz) and Radiated (above 1GHz) and RF Radiated (Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) and Peak Power Spectral Density (E.I.R.P.) <Non-Beamforming>:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	AC Adapter	Powertron	PA1045-120HIB300	N/A

For Radiated (above 1GHz) and RF Radiated (Maximum Equivalent Isotropically Radiated Power (E.I.R.P.) and Peak Power Spectral Density (E.I.R.P.) <Beamforming>:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Client	Extreme Networks	AP 5020	N/A
C	Notebook	DELL	E4300	N/A
D	AC Adapter	Powertron	PA1045-120HIB300	N/A

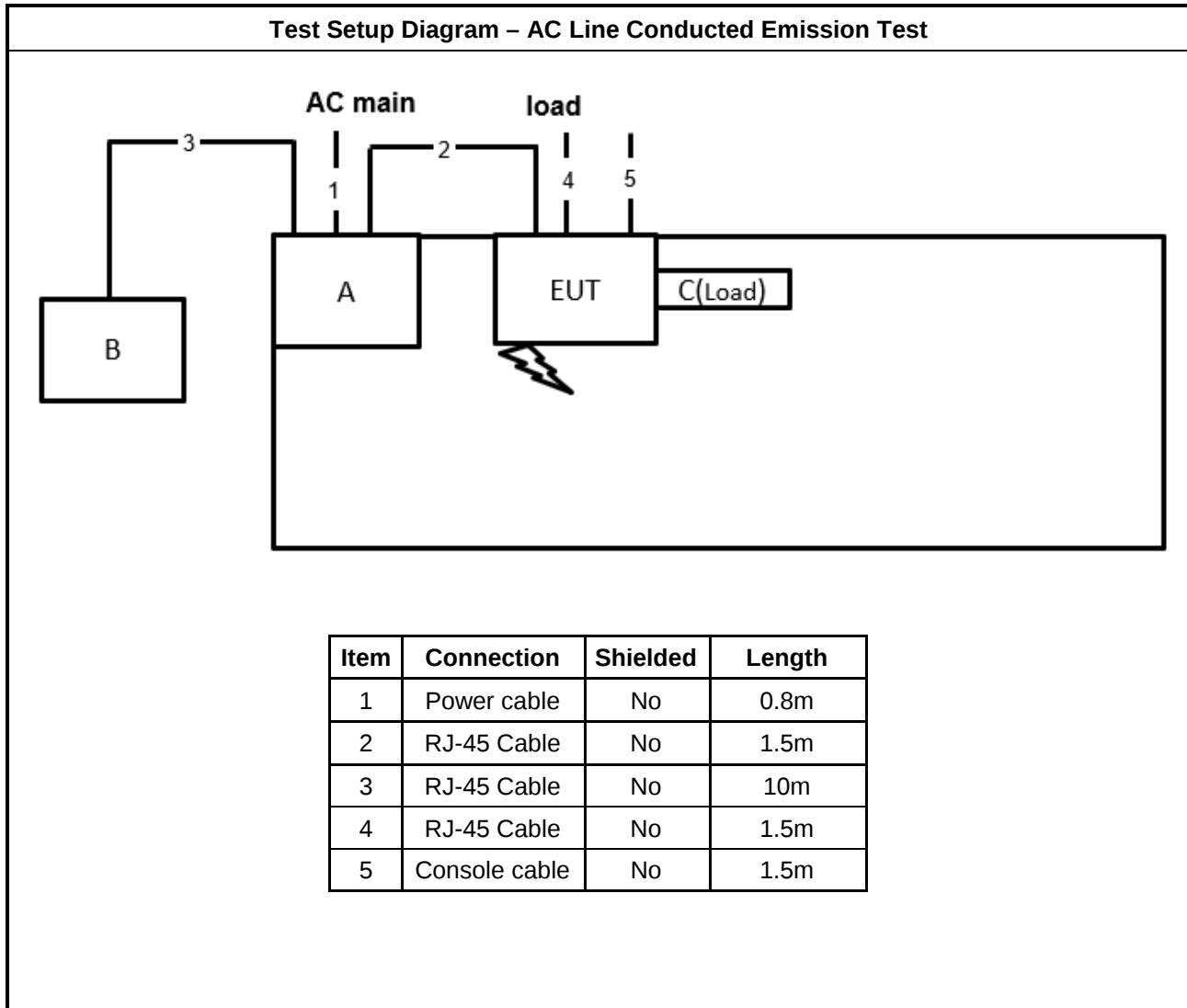
For RF Conducted (Other tests):

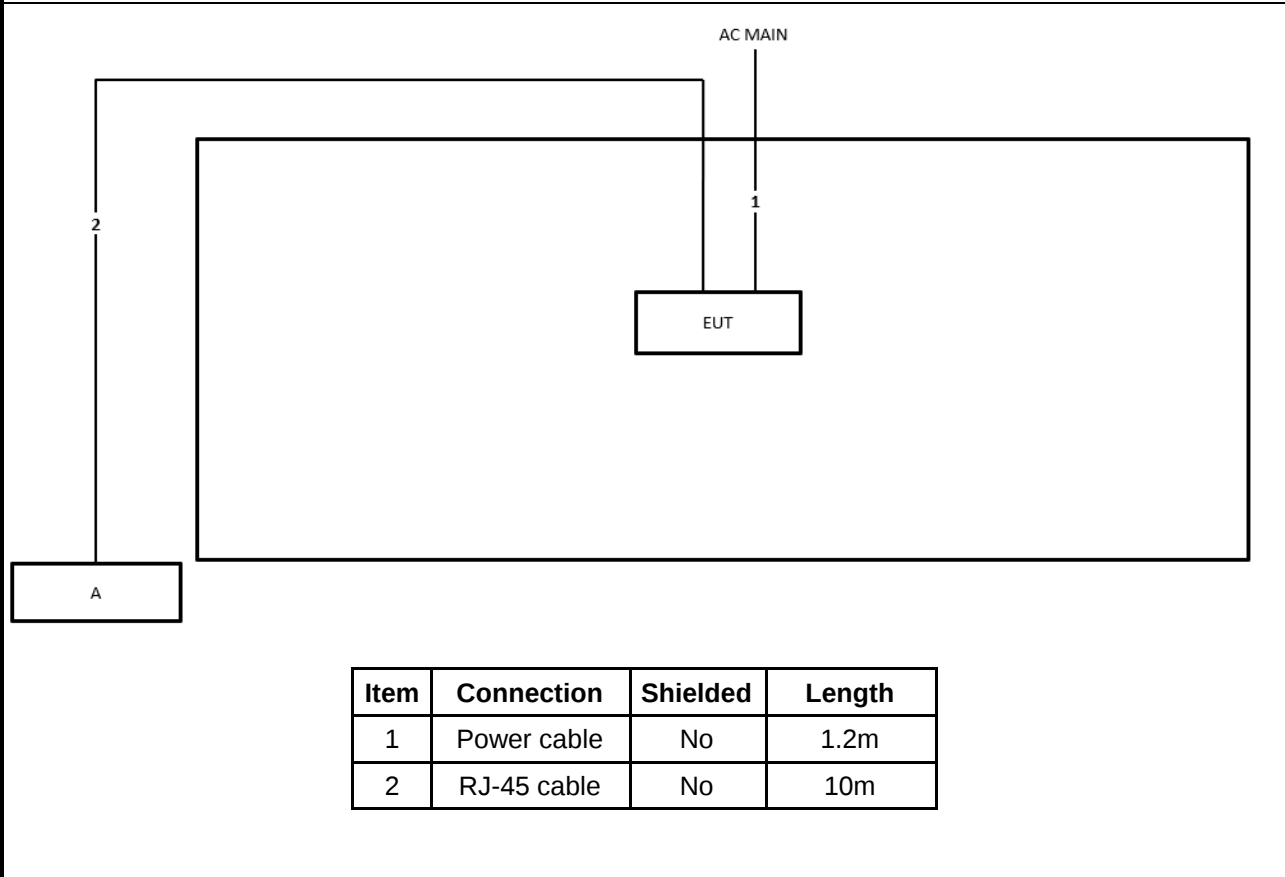
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	AC Adapter	Powertron	PA1045-120HIB300	N/A

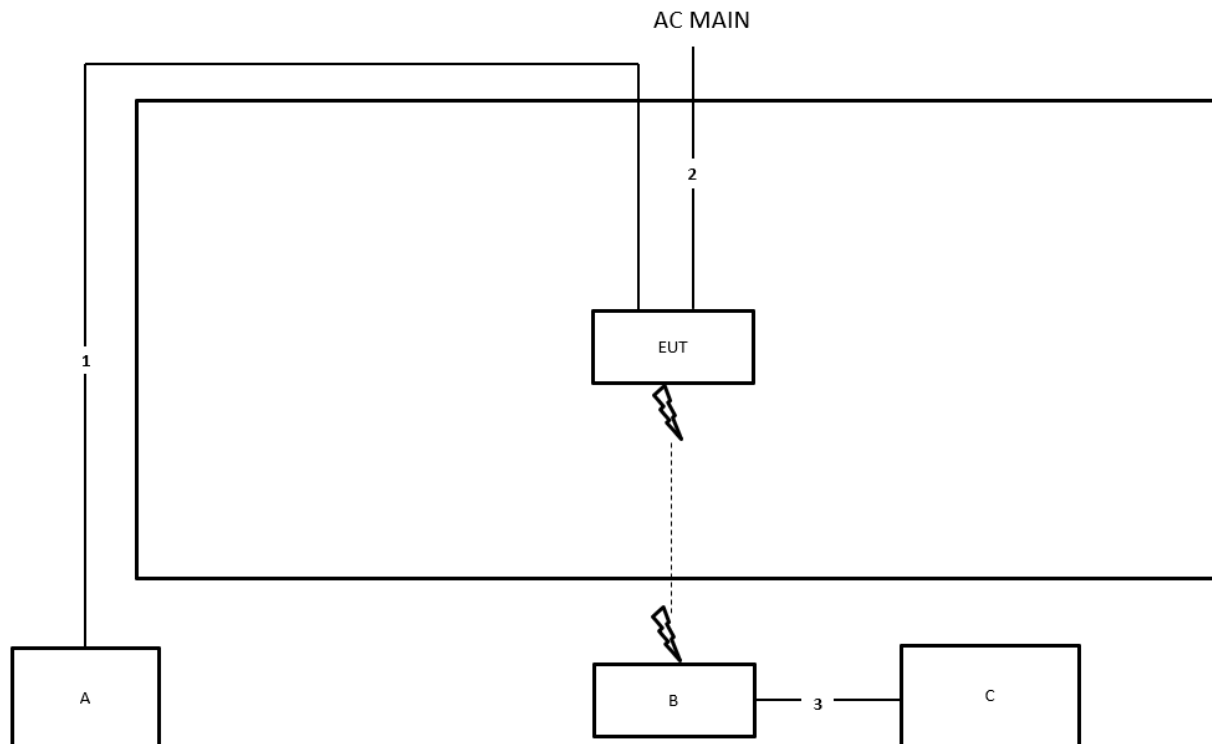
For RF Conducted (Contention Based Protocol test):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E6230	N/A
B	Notebook	Lenovo	L440	N/A
C	Device	Extreme	AP 5020	N/A
D	AC Adapter	Powertron	PA1045-120HIB300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz and Radiated Test >1GHz <Non-beamforming>


Test Setup Diagram - Radiated Test > 1GHz <Beamforming>


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.2m
3	RJ-45 cable	No	10m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

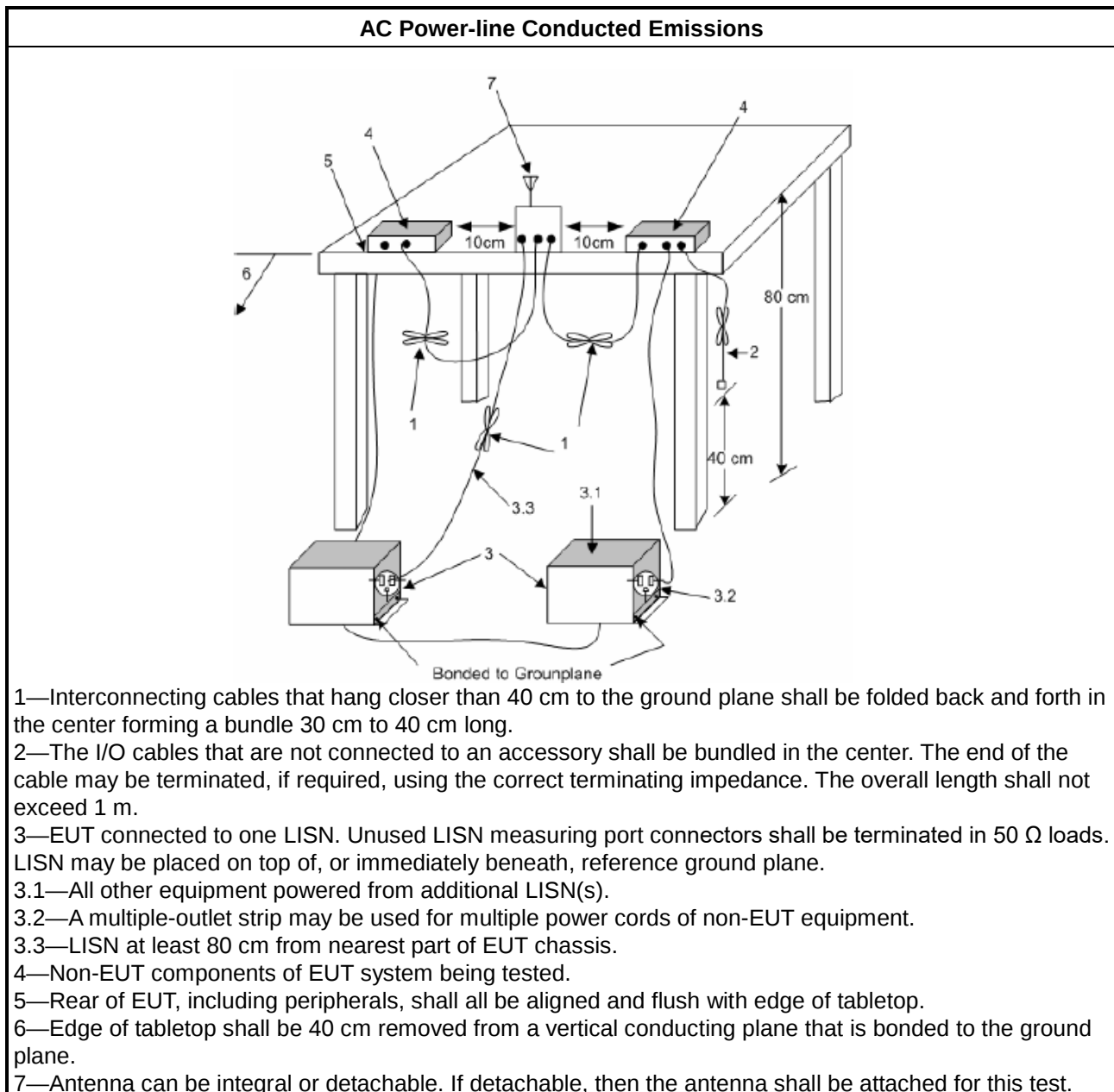
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- Marginal = - Limit + (Read Level + LISN Factor + Cable Loss)

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
RLAN 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

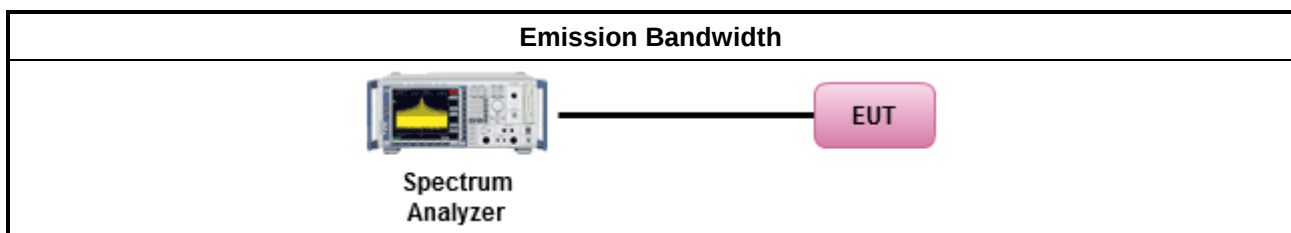
3.2.2 Measuring Instruments

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:	
☒	According to FCC KDB 987594 D02 clause II.C, measurement procedure shall refer to FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 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 very low power device : e.i.r.p < 14 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 very low power device : e.i.r.p < 14 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.
RLAN Devices	
☐ For the 5.925 ~ 7.125 GHz band:	
	■ For low-power indoor access-points & indoor subordinate devices < 30 dBm .
	■ For low-power client devices < 24 dBm.
☐ For the 5.925 ~ 6.875 GHz band:	
	■ For standard-power access points & fixed client devices < 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 standard client devices < 30 dBm.



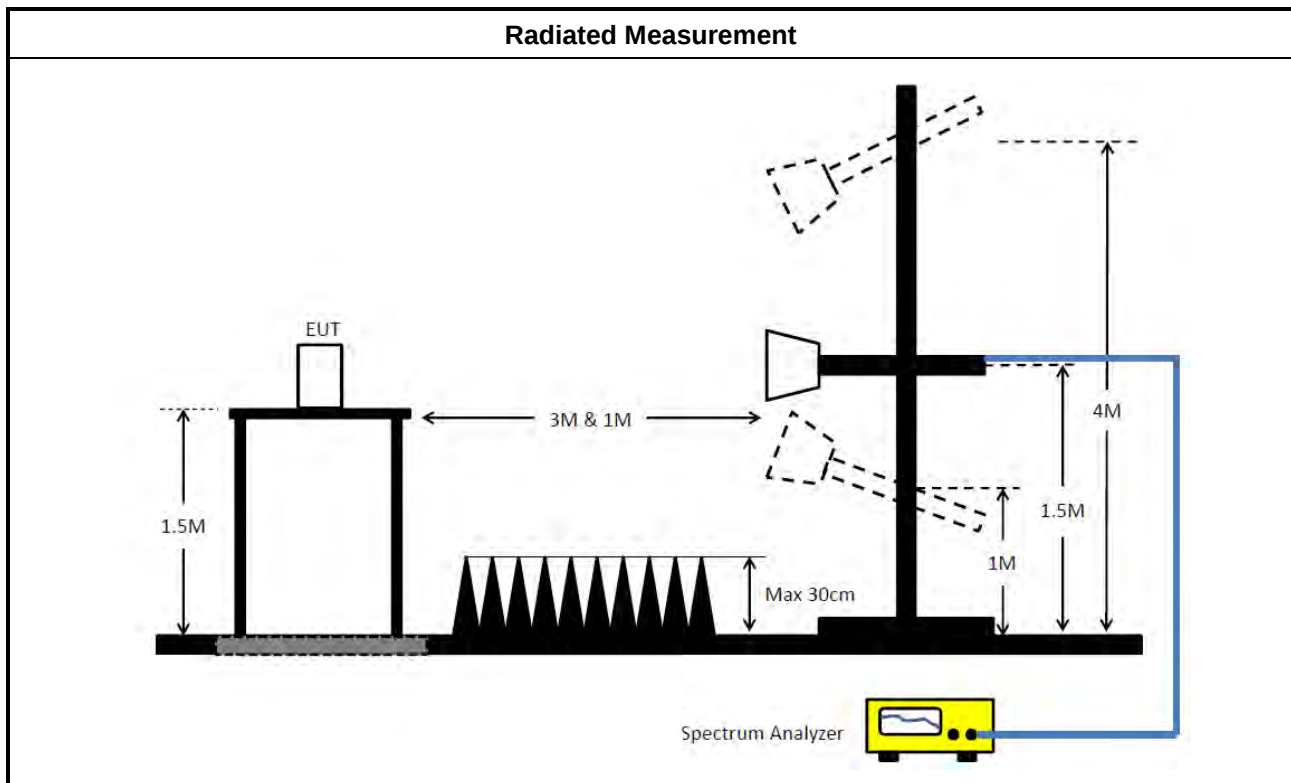
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
According to FCC KDB 987594 D02 clause II.E, the test measurement procedure shall refer to KDB 789033.	
☐	Average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging). Spectrum analyzer setting: RBW/VBW : 1/3MHz ; Detector : RMS ; Trace mode : Average ; Sweep Count 100.
	☐ Refer as FCC KDB 789033 D02, 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 D02, 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 FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	Refer as FCC KDB 412172 D01 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 very low power device : e.i.r.p PSD < -5 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 very low power device : e.i.r.p PSD < -5 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.
RLAN Devices	
☐ For the 5.925 ~ 7.125 GHz band:	
	■ For low-power indoor access-points & indoor subordinate devices < 5 dBm / MHz.
	■ For low-power client devices < -1 dBm / MHz.
☐ For the 5.925 ~ 6.875 GHz band:	
	■ For standard-power access points & fixed client devices < 23 dBm / MHz.
	■ For standard client devices < 17 dBm / MHz.

3.4.2 Measuring Instruments

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



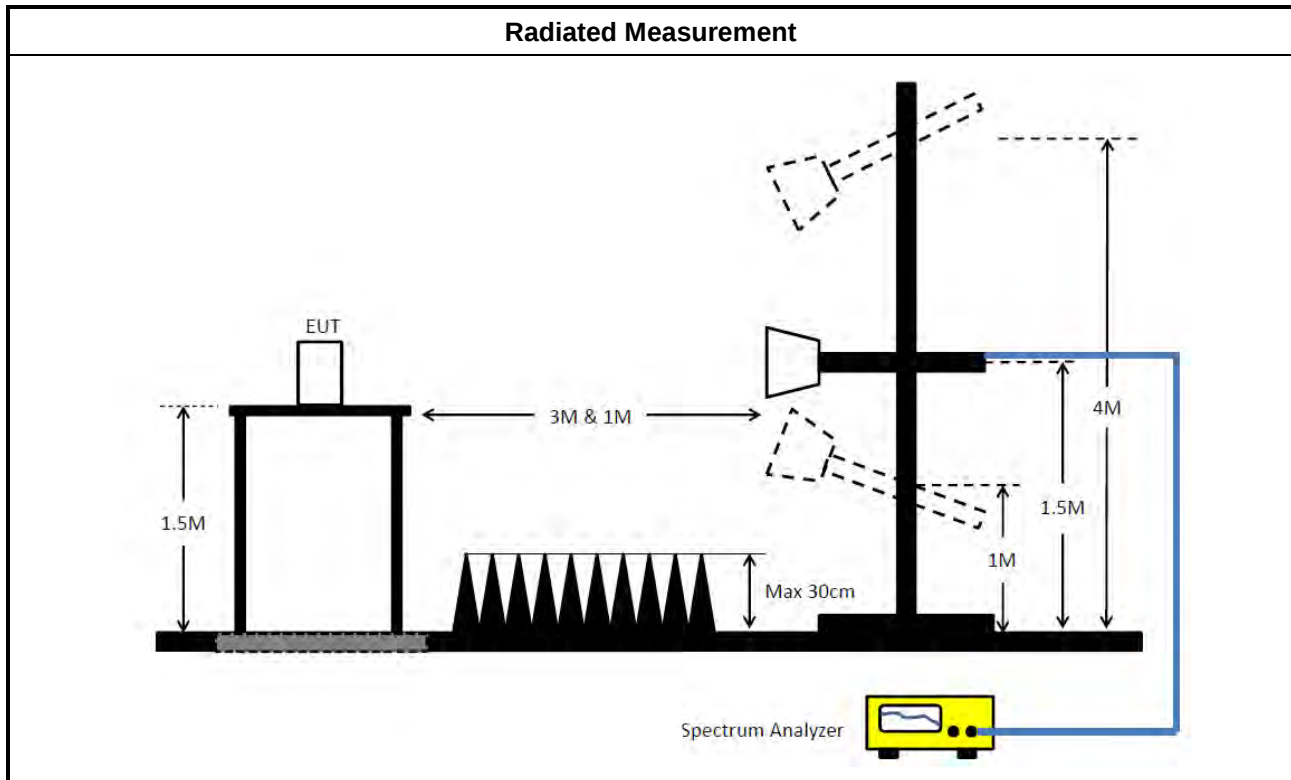
3.4.3 Test Procedures

Test Method	
According to FCC KDB 987594 D02 clause II.F, the measurement procedure shall refer to KDB 789033. 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 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, 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 FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	

Test Method

- Refer as FCC KDB 412172 D01 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

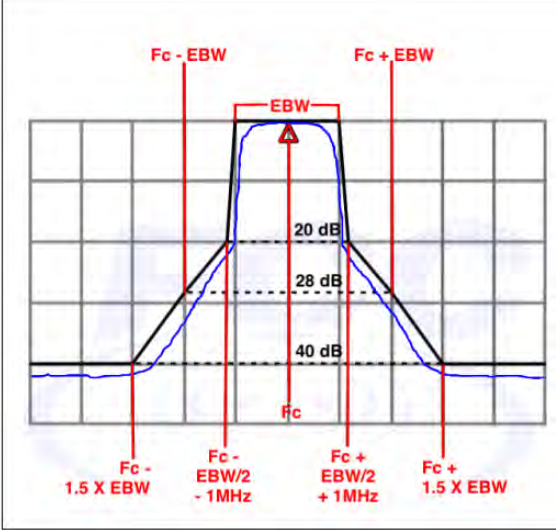
Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
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) = $54\text{dBuV/m at 3m} + 9.54\text{dB} = 63.54\text{dBuV/m at 1m}$.

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) = $68.2\text{dBuV/m at 3m} + 9.54\text{dB} = 77.74\text{dBuV/m at 1m}$. Note 2:-27 dBm EIRP OOBE is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

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. 



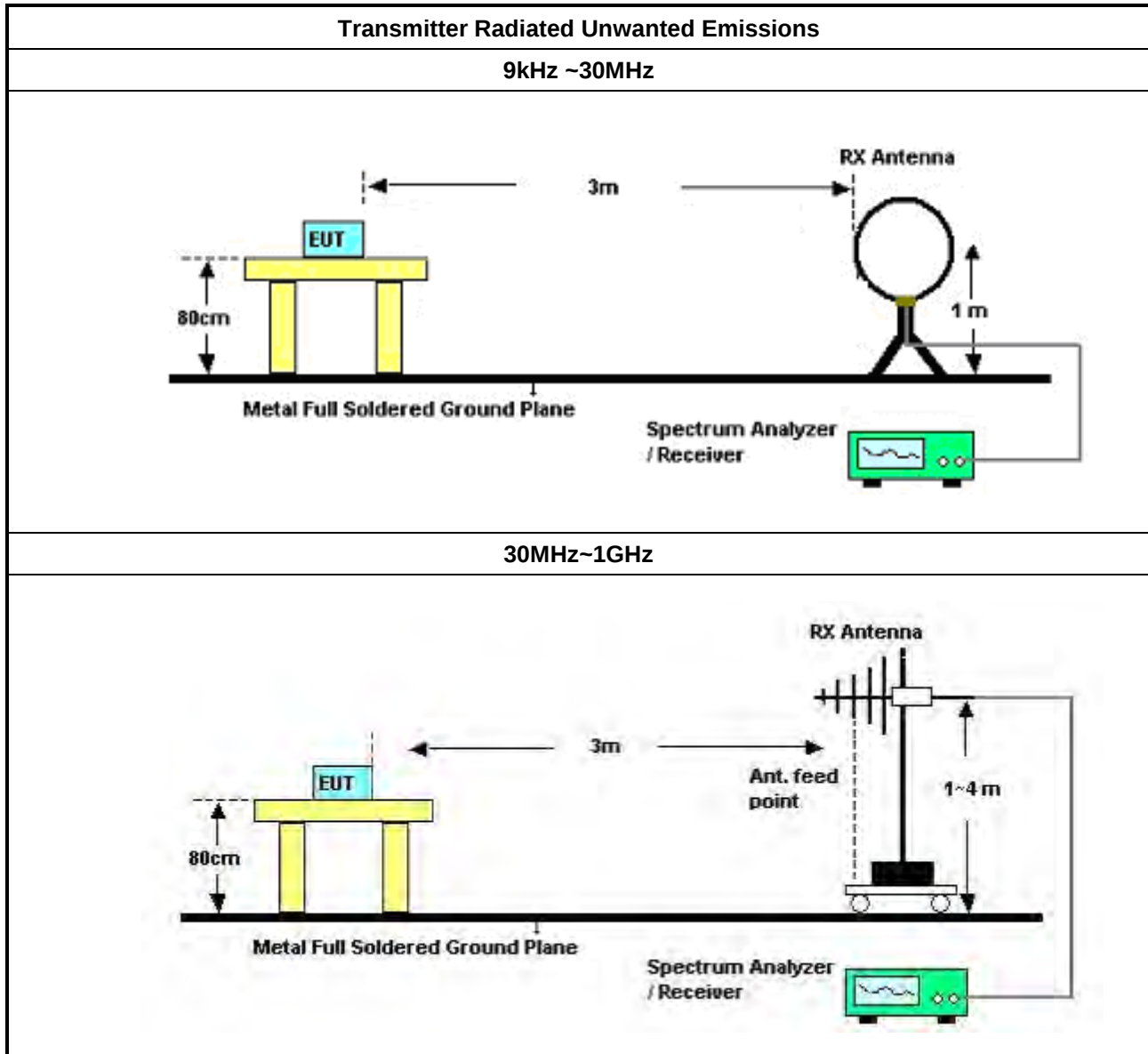
3.5.2 Measuring Instruments

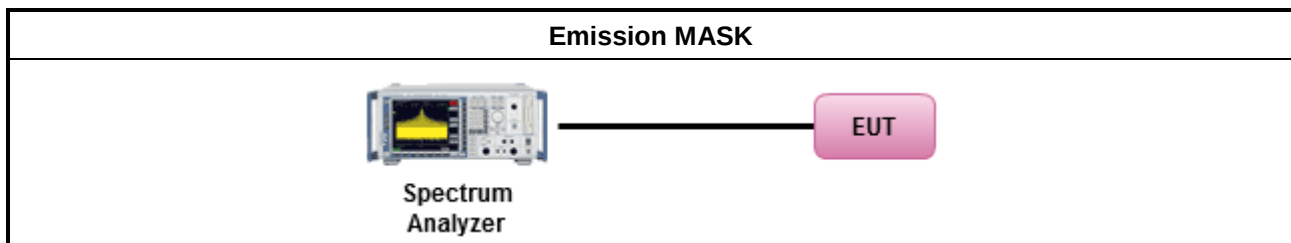
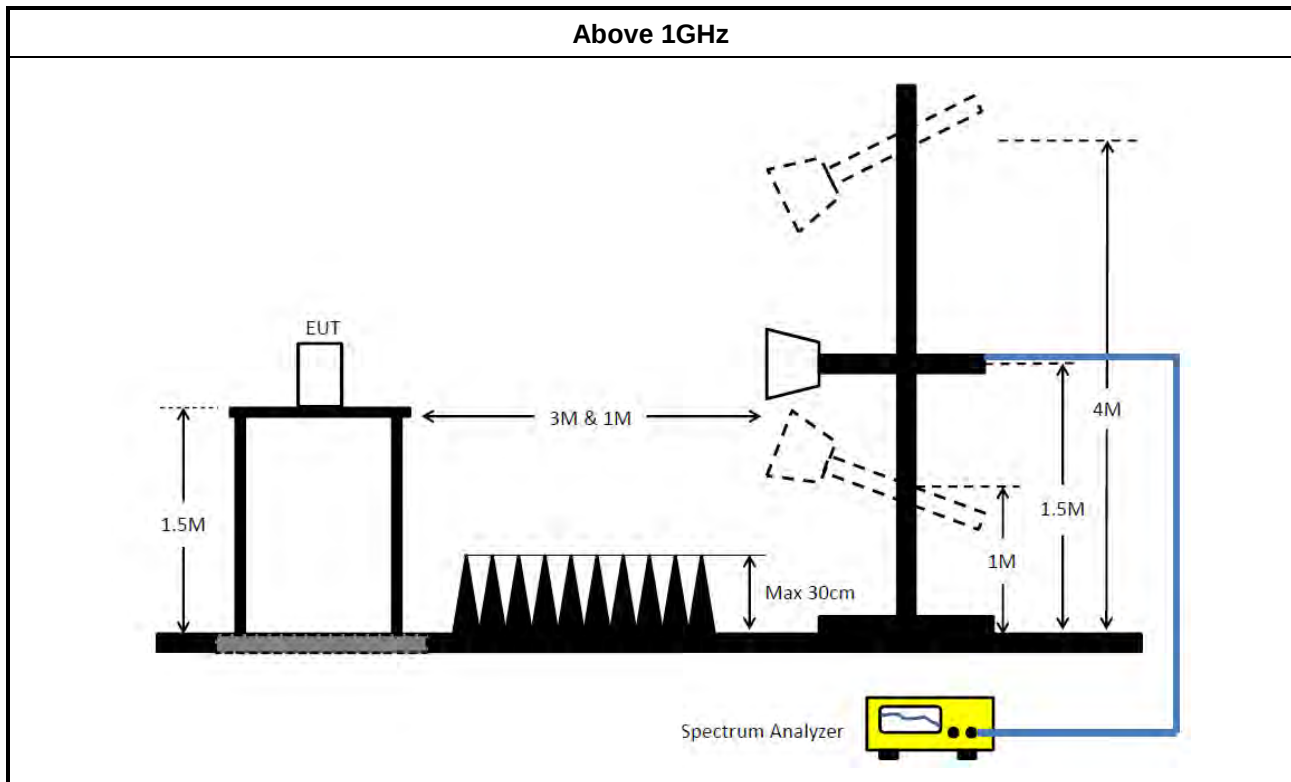
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
According to FCC KDB 987594 D02 II.G. the unwanted emission measurement procedure shall refer to KDB 789300(except emission MASK). 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 D02, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging). (For unrestricted band measurement)
	☐ Refer as FCC KDB 789033 D02, 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 D02, 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 D02, clause G)3)d)ii) for Band edge Integration measurements.	
For emission MASK shall be measured using following options below:	
	☒ Refer as FCC 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.	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

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

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Contention Based Protocol

3.6.1 Contention Based Protocol Limit

EUT can detect an AWGN signal with 90% (or better) level of certainty.

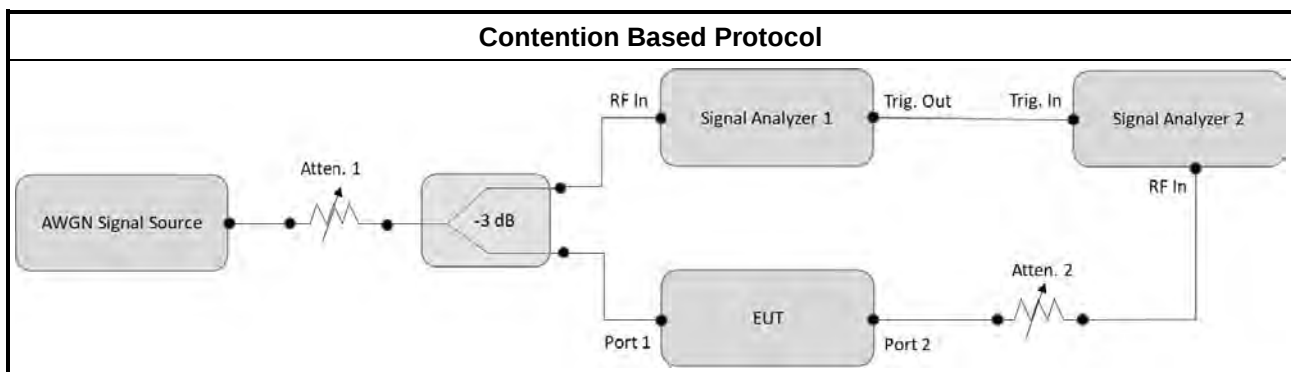
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
■	For Contention Based Protocol shall be measured using following options below:
☒	Refer as FCC KDB 987594 D02, I) Contention Based Protocol.

3.6.4 Test Setup



3.6.5 Test Result of Contention Based Protocol

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 19, 2024	Feb. 18, 2025	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 08, 2024	Feb. 07, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 05, 2023	May 04, 2024	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 18, 2023	May 17, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 04, 2023	May 03, 2024	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Nov. 07, 2023	Nov. 06, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Nov. 07, 2023	Nov. 06, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 03, 2023	Aug. 02, 2024	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCi	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 30, 2023	Jul. 29, 2024	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 03, 2023	Nov. 02, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 21, 2023	Apr. 20, 2024	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+68	30MHz~1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Band Rejector	MTJ	6G Band Rejector	6G-BRJ-01	1 ~ 18GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
Band Rejector	MTJ	6G Band Rejector	6G-BRJ-02	1~ 18GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 12, 2023	Sep. 11, 2024	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 12, 2023	Sep. 11, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)
Spectrum Analyzer	R&S	FSV40	101026	9kHz~40GHz	Nov. 21, 2023	Nov. 20, 2024	Conducted (DF01-CB)
Signal generator	R&S	SMB100A	177785	1MHz-40GHz	Sep. 19, 2023	Sep. 18, 2024	Conducted (DF01-CB)
Vector Signal generator	R&S	SMW200A	109426	100kHz- 7.5GHz	Dec. 21, 2023	Dec. 20, 2024	Conducted (DF01-CB)
RF Power Divider	MTJ	2 Way	DF01-DV03	1GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF01-CB)
RF Power Divider	MTJ	2 Way	DF01-DV02	1GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF01-CB)
RF Power Divider	MTJ	4 Way	DF01-DV01	1GHz ~ 6GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-52	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-53	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-54	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (DF01-CB)
RF Cable-high	Woken	RG402	High Cable-56	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (DF01-CB)
100MS/s Digitizer	N.I	USB-5133	F65206	N/A	Mar. 20, 2024	Mar. 19, 2025	Conducted (DF01-CB)

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

N.C.R means Non-Calibration required.



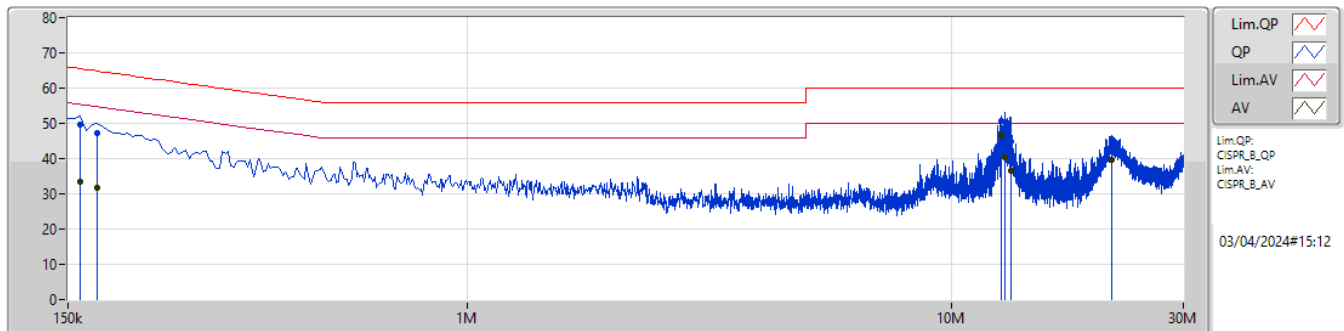
Conducted Emissions at Powerline

Appendix A

Summary

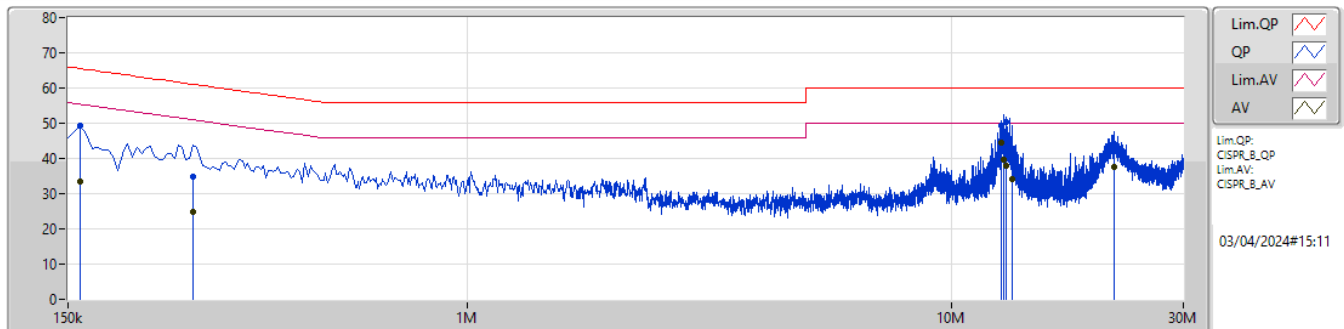
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 8	Pass	AV	12.638M	46.38	50.00	-3.62	Line

Mode 8



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	159k	49.59	65.52	-15.93	9.97	Line	-	39.62	0.09	0.02	9.86						
AV	159k	33.52	55.52	-22.00	9.97	Line	-	23.55	0.09	0.02	9.86						
QP	172.5k	47.33	64.83	-17.50	9.97	Line	-	37.36	0.09	0.02	9.86						
AV	172.5k	31.73	54.83	-23.10	9.97	Line	-	21.76	0.09	0.02	9.86						
QP	12.638M	50.77	60.00	-9.23	10.36	Line	-	40.41	0.27	0.16	9.93						
AV	12.638M	46.38	50.00	-3.62	10.36	Line	"Worst"	36.02	0.27	0.16	9.93						
QP	12.854M	50.27	60.00	-9.73	10.36	Line	-	39.91	0.27	0.16	9.93						
AV	12.854M	40.39	50.00	-9.61	10.36	Line	-	30.03	0.27	0.16	9.93						
QP	13.236M	44.91	60.00	-15.09	10.38	Line	-	34.53	0.27	0.17	9.94						
AV	13.236M	36.68	50.00	-13.32	10.38	Line	-	26.30	0.27	0.17	9.94						
QP	21.404M	45.61	60.00	-14.39	10.56	Line	-	35.05	0.30	0.23	10.03						
AV	21.404M	39.67	50.00	-10.33	10.56	Line	-	29.11	0.30	0.23	10.03						

Mode 8



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	159k	49.32	65.52	-16.20	9.95	Neutral	-	39.37	0.07	0.02	9.86						
AV	159k	33.30	55.52	-22.22	9.95	Neutral	-	23.35	0.07	0.02	9.86						
QP	271.5k	34.70	61.07	-26.37	9.96	Neutral	-	24.74	0.07	0.02	9.87						
AV	271.5k	24.81	51.07	-26.26	9.96	Neutral	-	14.85	0.07	0.02	9.87						
QP	12.642M	49.32	60.00	-10.68	10.34	Neutral	-	38.98	0.25	0.16	9.93						
AV	12.642M	44.36	50.00	-5.64	10.34	Neutral	"Worst"	34.02	0.25	0.16	9.93						
QP	12.804M	47.64	60.00	-12.36	10.34	Neutral	-	37.30	0.25	0.16	9.93						
AV	12.804M	39.78	50.00	-10.22	10.34	Neutral	-	29.44	0.25	0.16	9.93						
QP	12.962M	50.18	60.00	-9.82	10.36	Neutral	-	39.82	0.25	0.17	9.94						
AV	12.962M	38.08	50.00	-11.92	10.36	Neutral	-	27.72	0.25	0.17	9.94						
QP	13.29M	42.72	60.00	-17.28	10.36	Neutral	-	32.36	0.25	0.17	9.94						
AV	13.29M	34.24	50.00	-15.76	10.36	Neutral	-	23.88	0.25	0.17	9.94						
QP	21.624M	44.11	60.00	-15.89	10.57	Neutral	-	33.54	0.31	0.23	10.03						
AV	21.624M	37.68	50.00	-12.32	10.57	Neutral	-	27.11	0.31	0.23	10.03						

**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	21.34M	19.065M	19M1D1D	20.46M	18.966M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	39.82M	37.631M	37M6D1D	39.16M	37.531M
802.11be EHT80-BF_Nss1,(MCS15)_2TX	80.3M	77.361M	77M4D1D	79.2M	76.562M
802.11be EHT160-BF_Nss1,(MCS15)_2TX	167.64M	156.522M	157MD1D	159.28M	155.122M

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	21.34M	18.991M	20.955M	19.065M
6195MHz	Pass	Inf	20.46M	18.966M	21.175M	18.966M
6415MHz	Pass	Inf	21.175M	18.966M	20.845M	19.015M
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	39.71M	37.531M	39.38M	37.531M
6205MHz	Pass	Inf	39.16M	37.631M	39.82M	37.531M
6405MHz	Pass	Inf	39.6M	37.631M	39.49M	37.631M
802.11be EHT80-BF_Nss1,(MCS15)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	79.86M	76.562M	79.42M	76.562M
6225MHz	Pass	Inf	79.64M	76.962M	79.42M	77.261M
6385MHz	Pass	Inf	79.2M	77.361M	80.3M	77.261M
802.11be EHT160-BF_Nss1,(MCS15)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	160.6M	155.722M	159.28M	155.122M
6185MHz	Pass	Inf	160.16M	156.322M	167.64M	156.322M
6345MHz	Pass	Inf	159.28M	156.122M	160.16M	156.522M

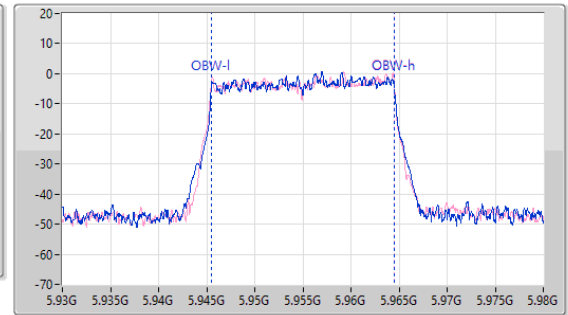
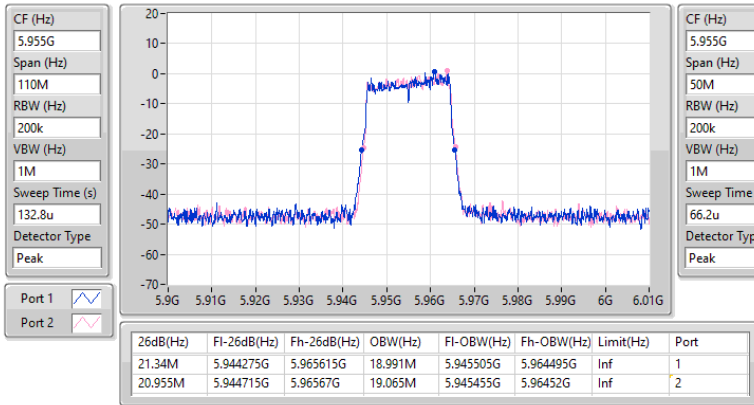
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5955MHz

27/03/2024

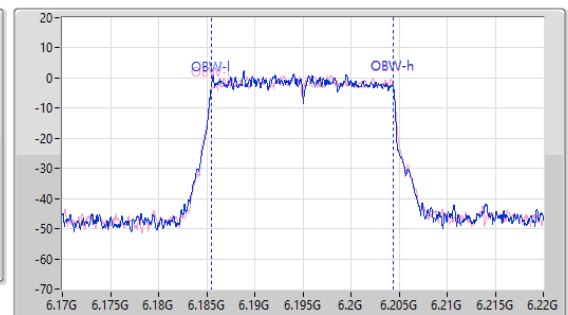
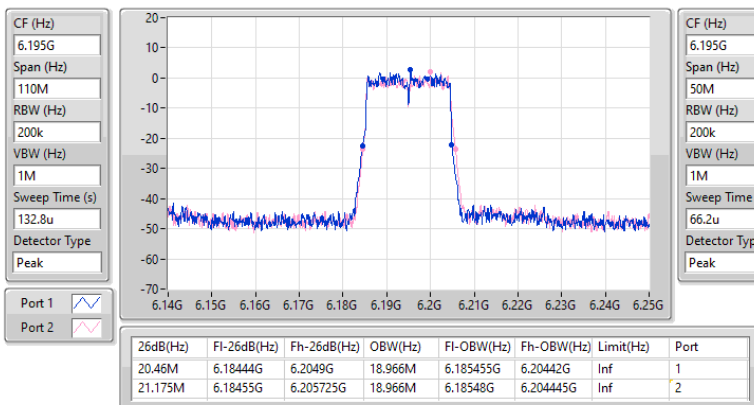


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX

EBW

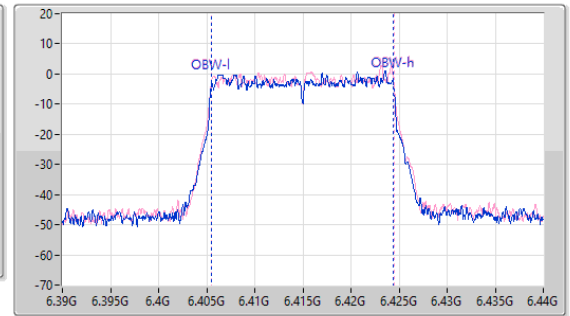
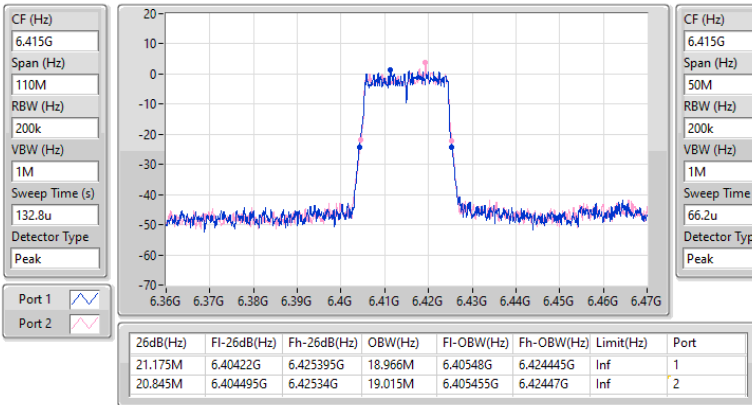
6195MHz

27/03/2024

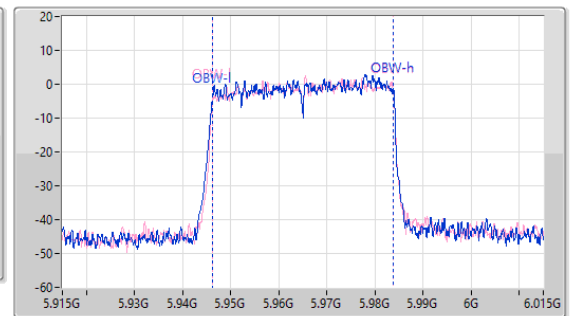
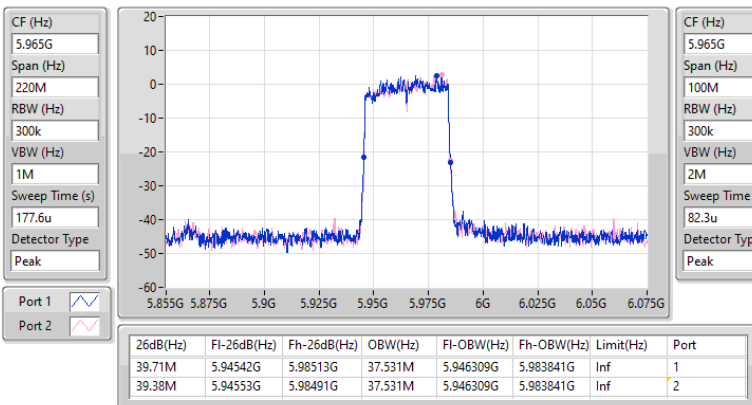


5.925-6.425GHz_802.11be EHT20-BF_Nss1,(MCS0)_2TX
EBW
6415MHz

27/03/2024


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX
EBW
5965MHz

27/03/2024

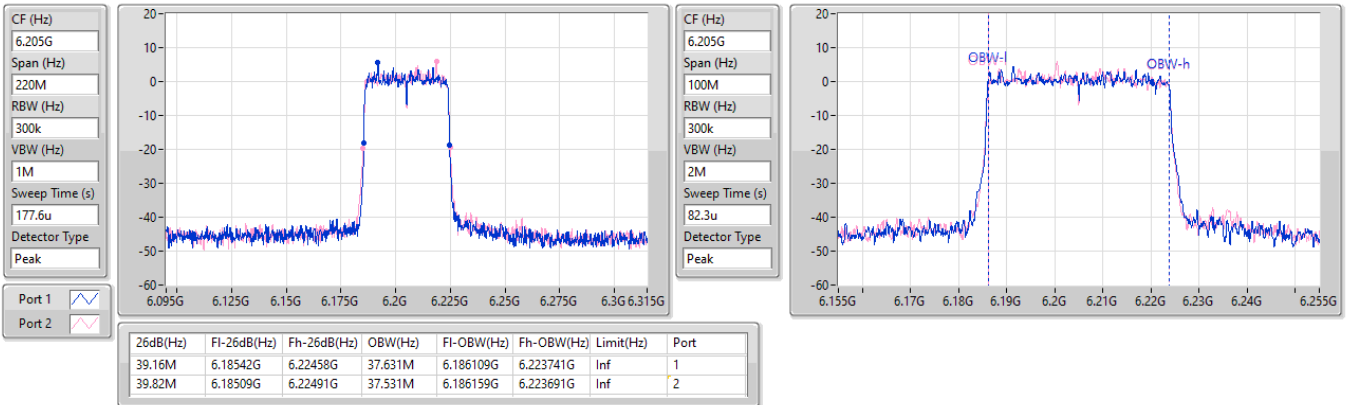


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

6205MHz

27/03/2024

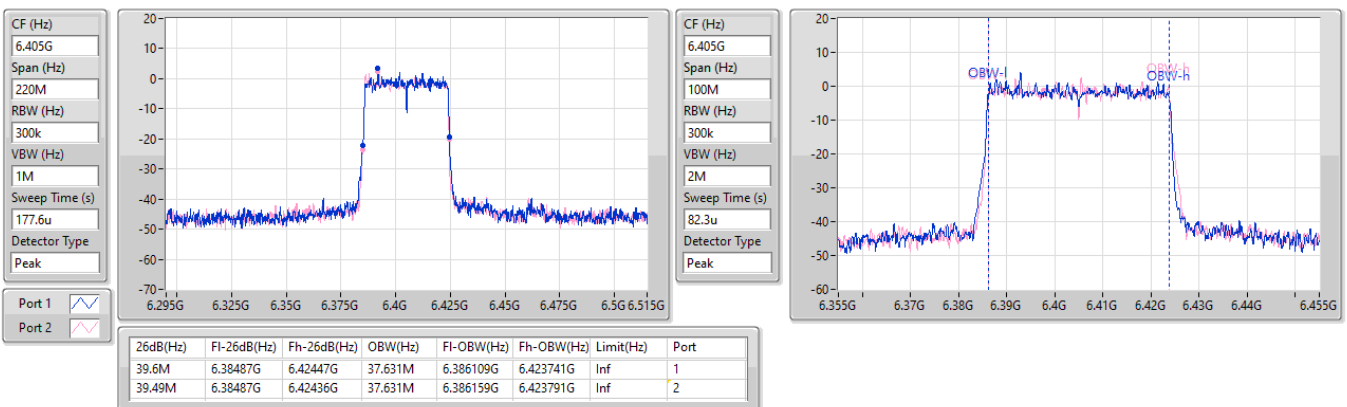


5.925-6.425GHz_802.11be EHT40-BF_Nss1,(MCS0)_2TX

EBW

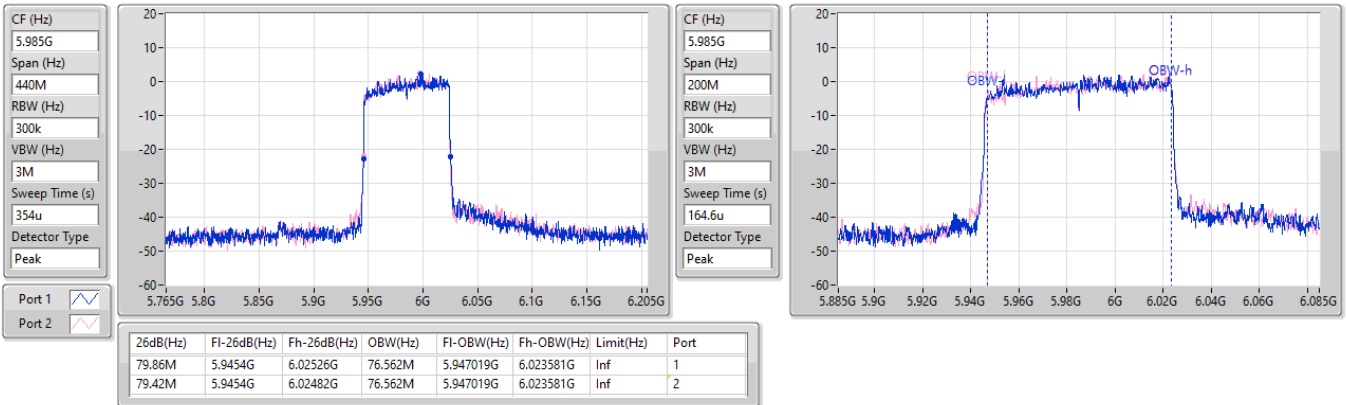
6405MHz

27/03/2024

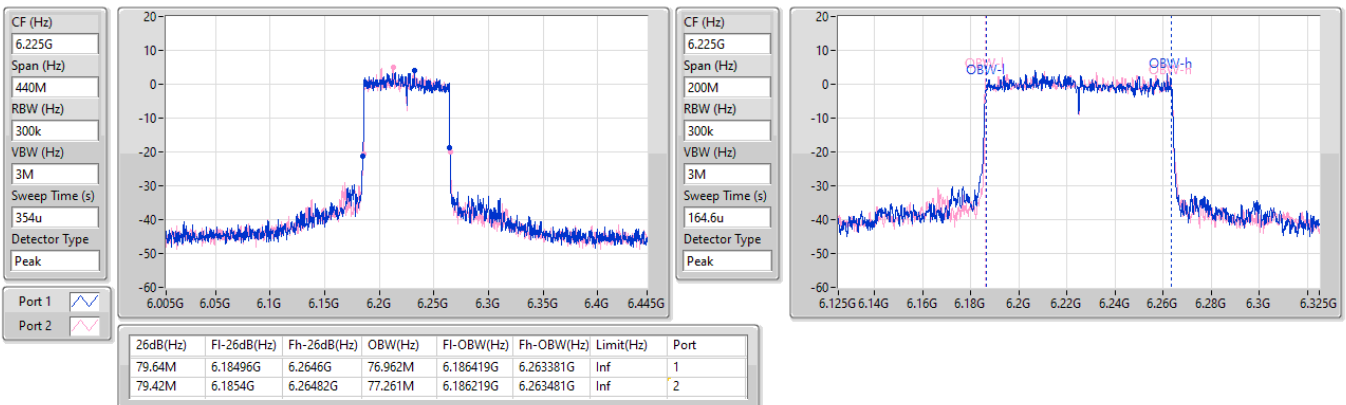


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS15)_2TX
EBW
5985MHz

27/03/2024


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS15)_2TX
EBW
6225MHz

27/03/2024

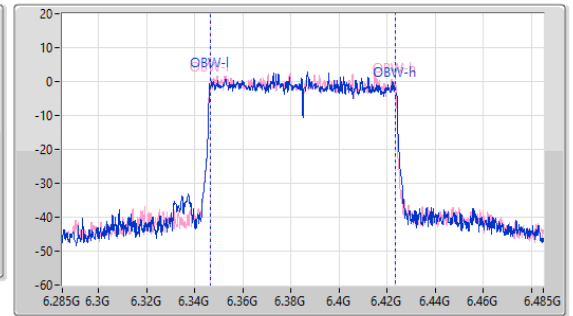
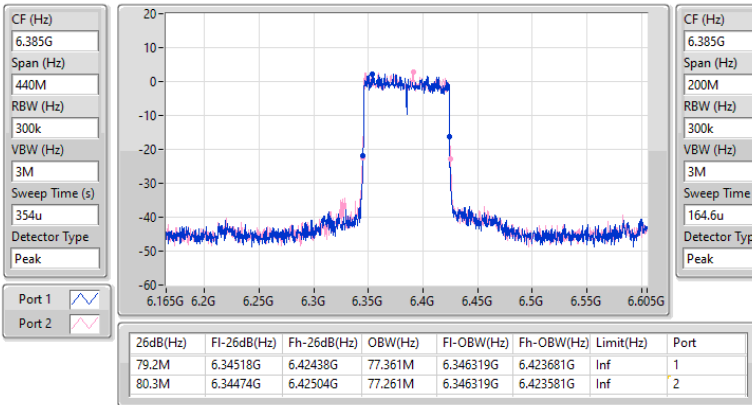


5.925-6.425GHz_802.11be EHT80-BF_Nss1,(MCS15)_2TX

EBW

6385MHz

27/03/2024

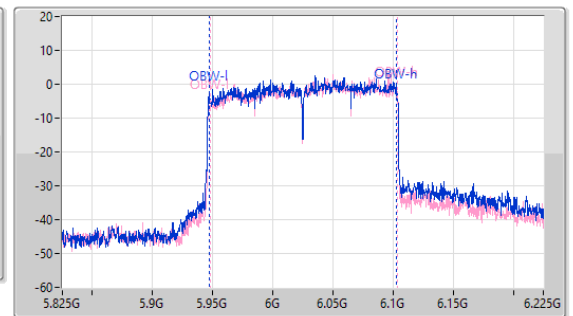
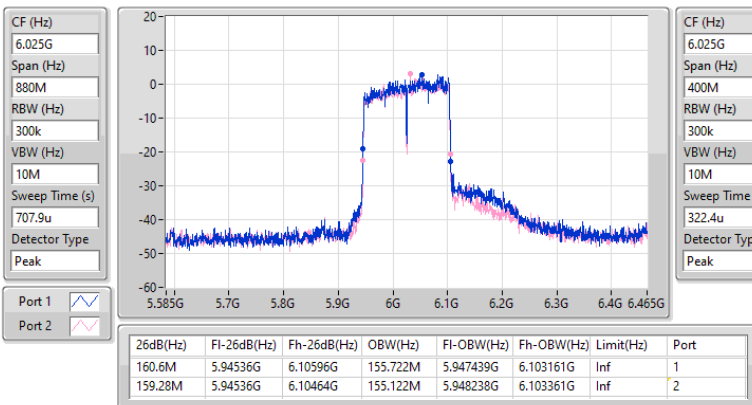


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS15)_2TX

EBW

6025MHz

27/03/2024

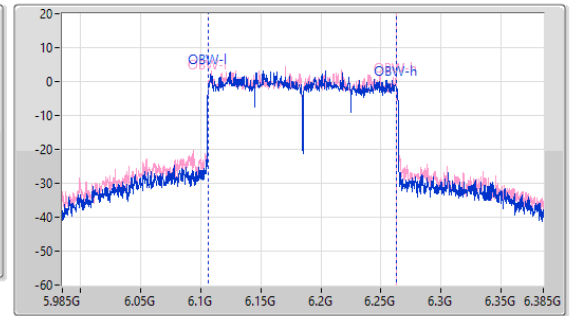
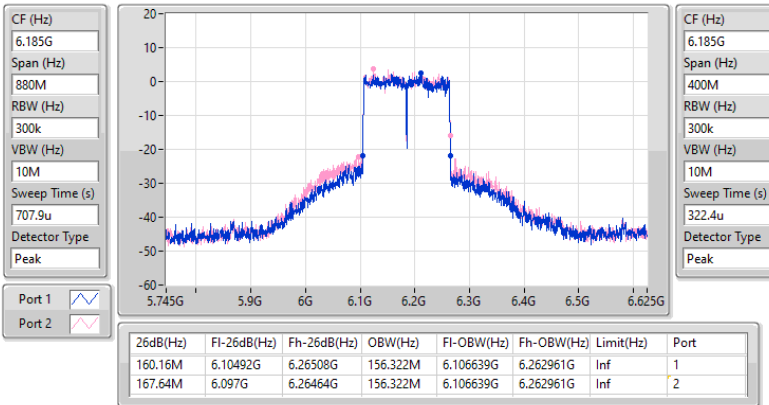


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS15)_2TX

EBW

6185MHz

27/03/2024

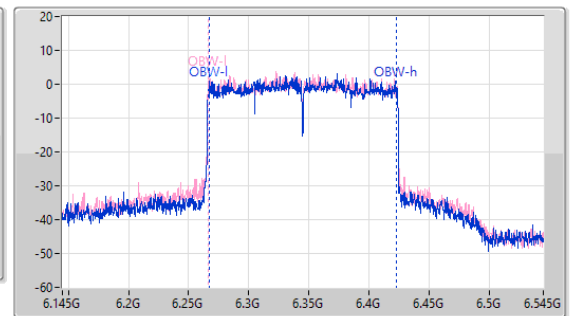
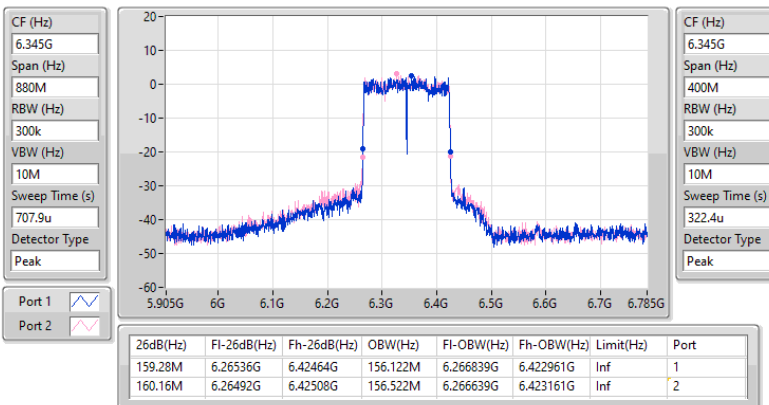


5.925-6.425GHz_802.11be EHT160-BF_Nss1,(MCS15)_2TX

EBW

6345MHz

27/03/2024



**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	21.505M	19.111M	19M1D1D	20.515M	18.943M
802.11be EHT40_Nss2,(MCS0)_2TX	39.71M	37.843M	37M8D1D	39.27M	37.555M
802.11be EHT80_Nss2,(MCS0)_2TX	81.4M	77.33M	77M3D1D	80.08M	76.823M
802.11be EHT160_Nss2,(MCS0)_2TX	316.36M	159.185M	159MD1D	166.76M	155.421M

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	21.505M	19.061M	21.395M	18.98M
6195MHz	Pass	Inf	21.23M	18.965M	21.065M	19.036M
6415MHz	Pass	Inf	20.515M	19.111M	20.955M	18.943M
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	39.27M	37.572M	39.71M	37.555M
6205MHz	Pass	Inf	39.27M	37.794M	39.6M	37.843M
6405MHz	Pass	Inf	39.49M	37.701M	39.71M	37.755M
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	80.08M	77.13M	80.08M	77.144M
6225MHz	Pass	Inf	81.4M	76.823M	80.08M	76.829M
6385MHz	Pass	Inf	80.74M	77.33M	80.3M	77.144M
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	203.72M	156.114M	244.2M	155.735M
6185MHz	Pass	Inf	296.12M	157.237M	316.36M	159.185M
6345MHz	Pass	Inf	192.72M	155.421M	166.76M	155.794M

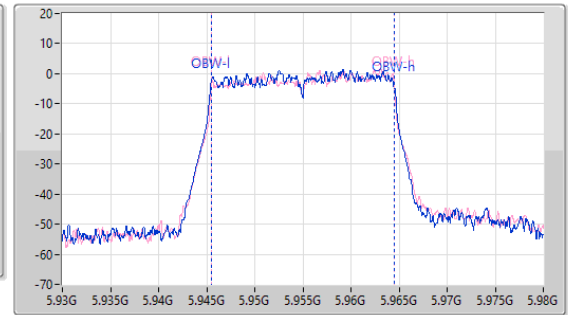
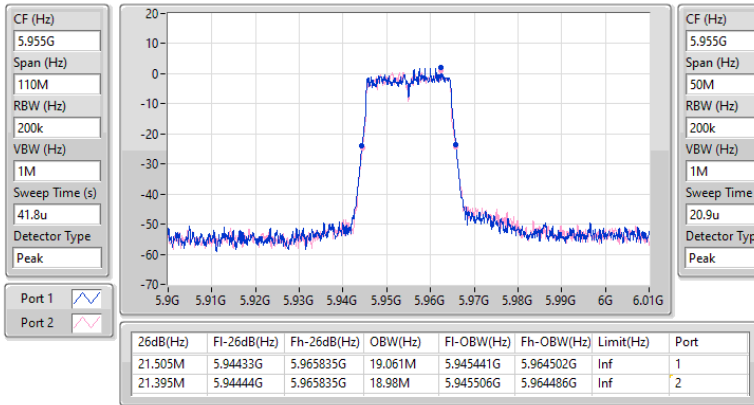
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5955MHz

06/02/2024

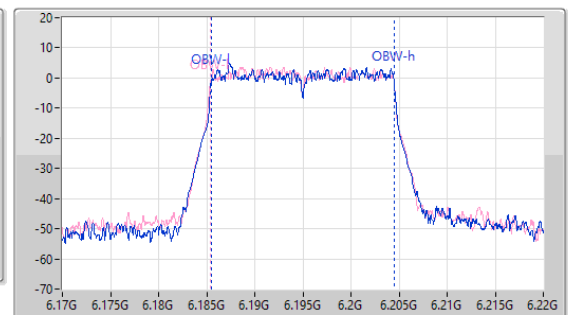
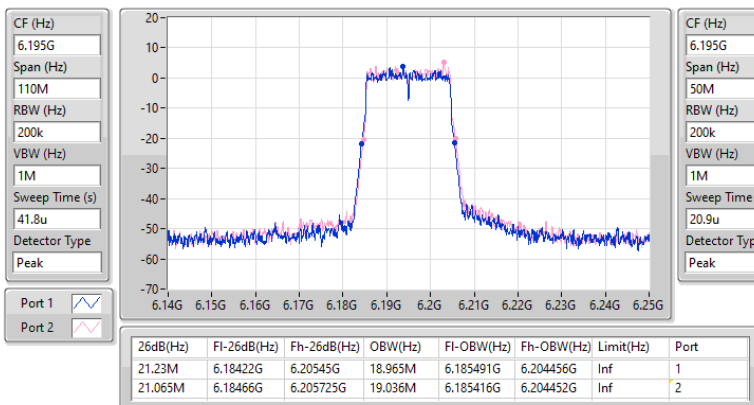


5.925-6.425GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

6195MHz

06/02/2024

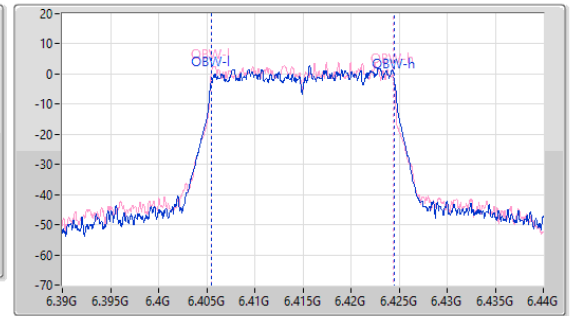
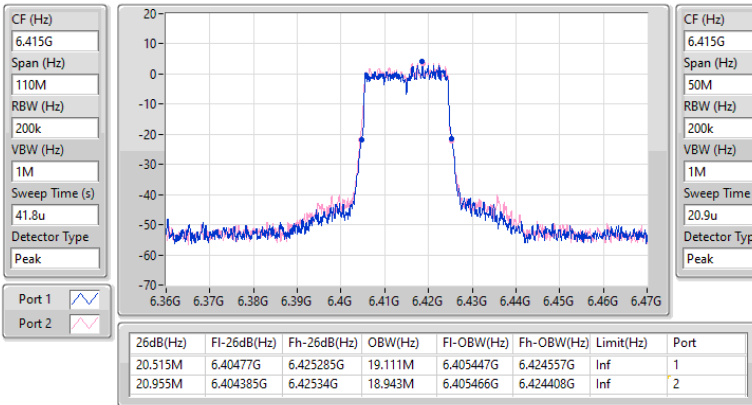


5.925-6.425GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

6415MHz

06/02/2024

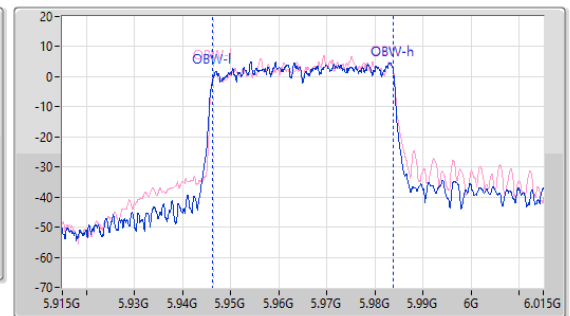
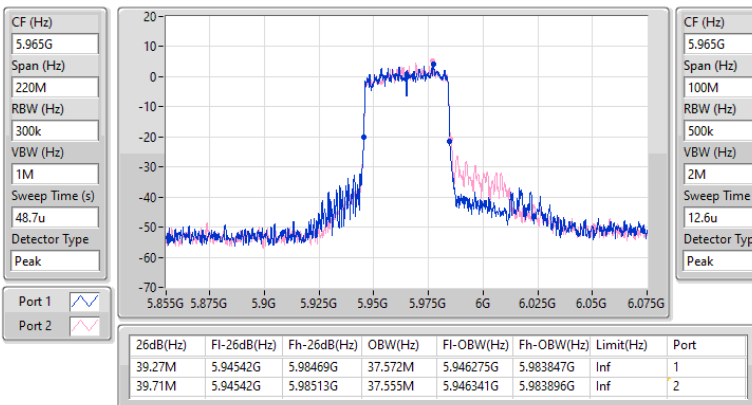


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

5965MHz

06/02/2024

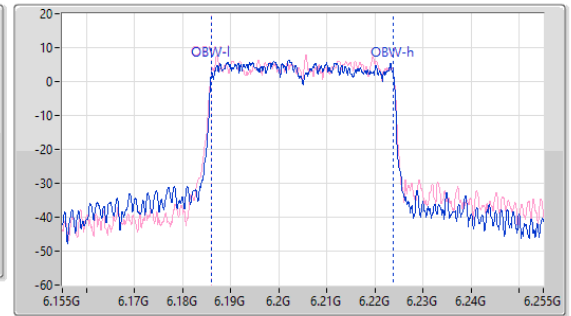
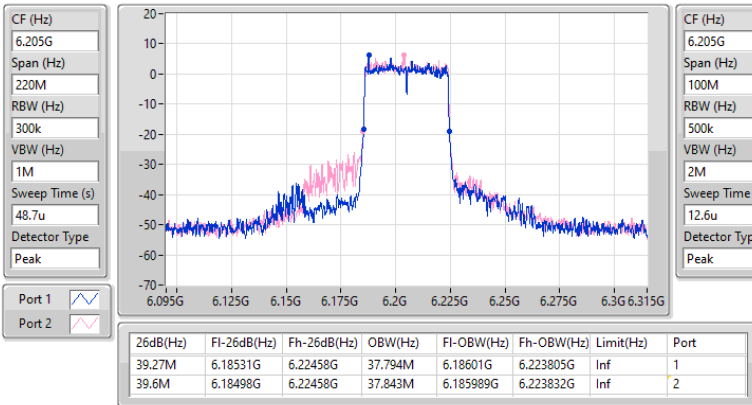


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6205MHz

06/02/2024

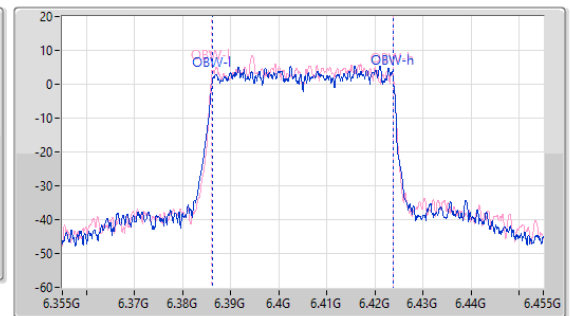
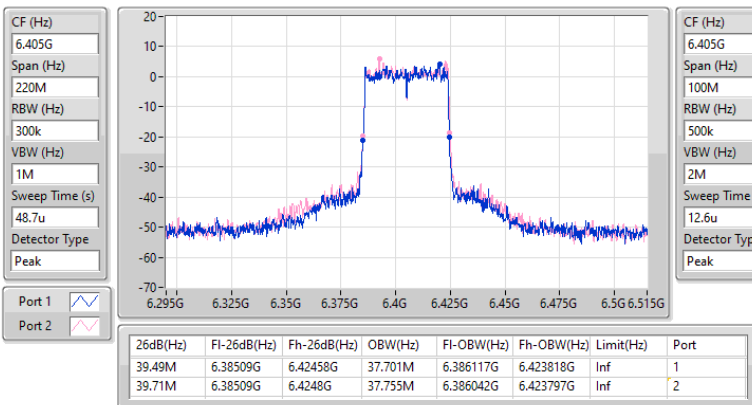


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6405MHz

06/02/2024

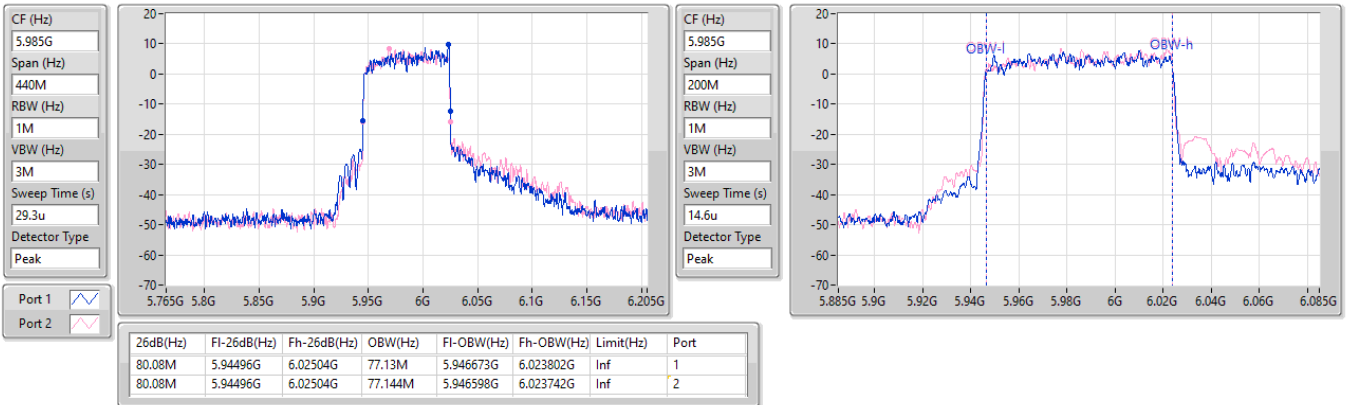


5.925-6.425GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

5985MHz

06/02/2024

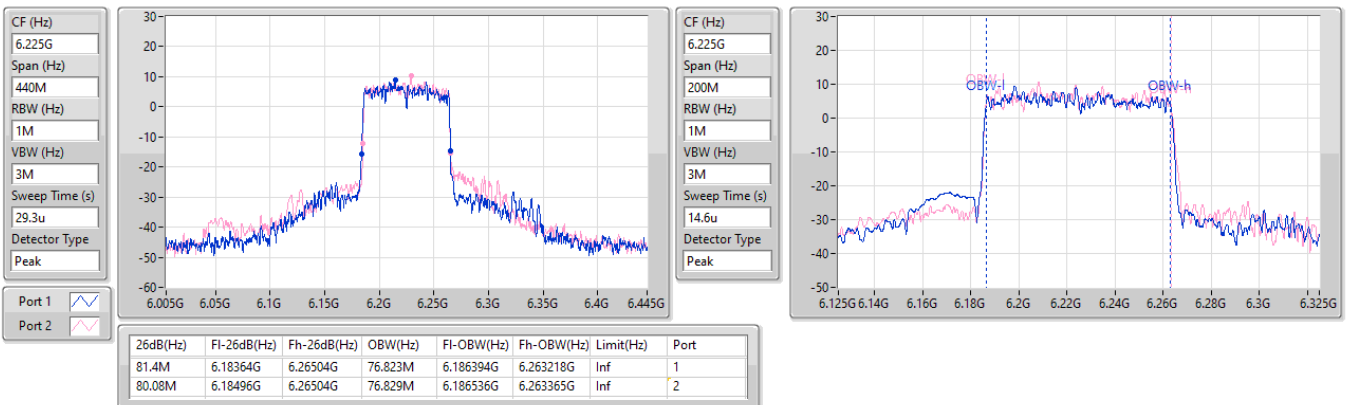


5.925-6.425GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

6225MHz

06/02/2024

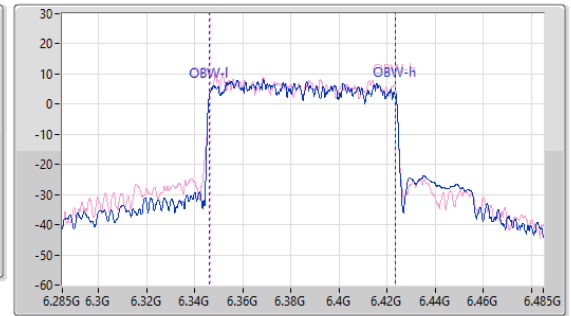
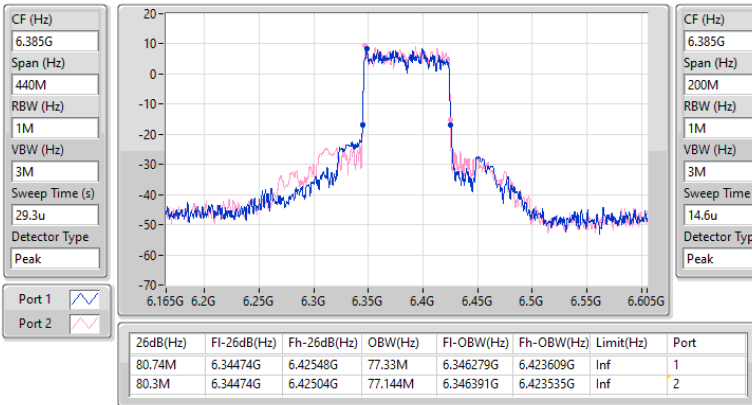


5.925-6.425GHz_802.11be EHT80_Nss2,(MCS0)_2TX

EBW

6385MHz

06/02/2024

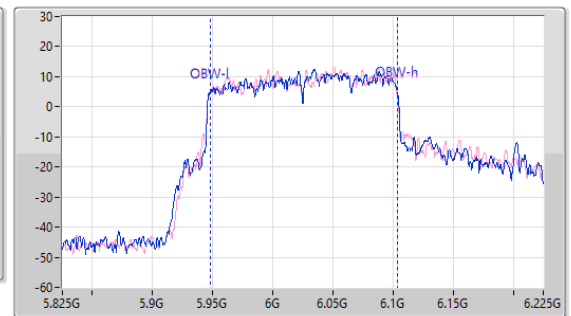
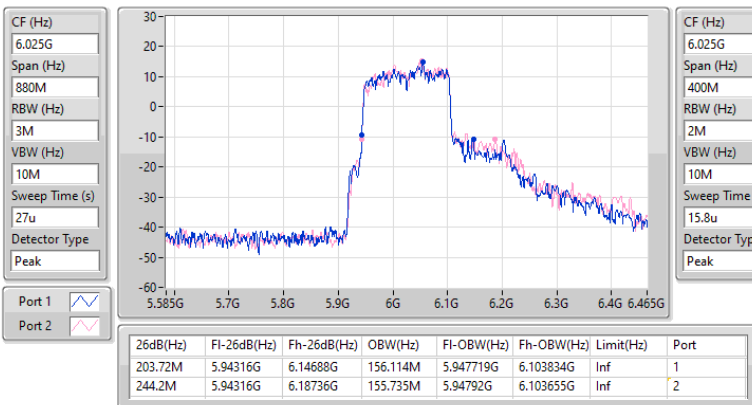


5.925-6.425GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6025MHz

06/02/2024

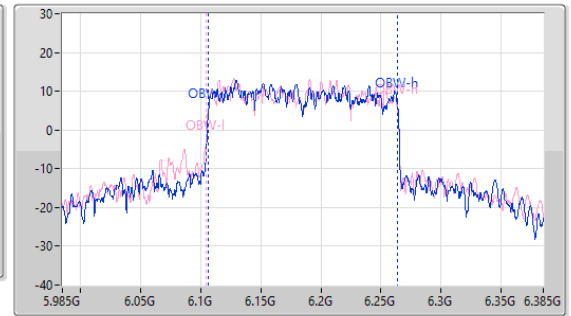
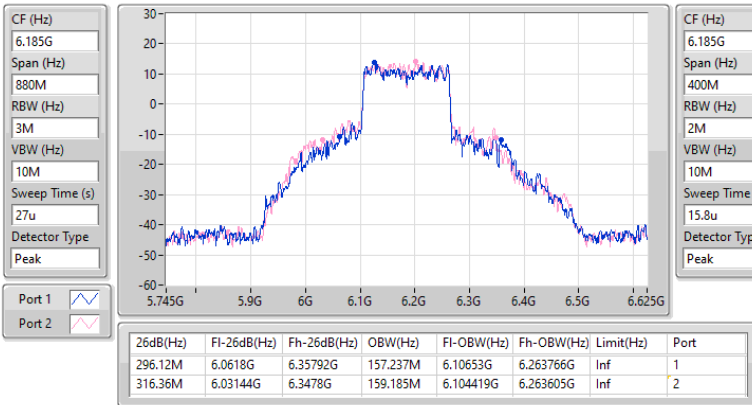


5.925-6.425GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6185MHz

06/02/2024

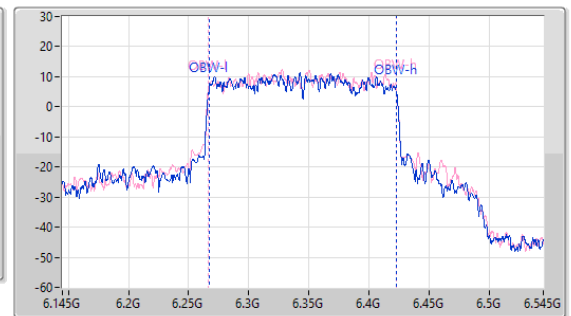
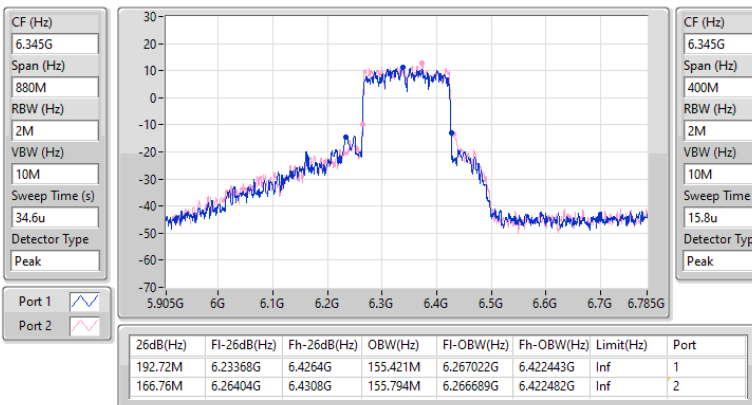


5.925-6.425GHz_802.11be EHT160_Nss2,(MCS0)_2TX

EBW

6345MHz

06/02/2024



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_Nss1,(MCS0)_2TX	21.505M	19.09M	19M1D1D	20.515M	18.941M
802.11be EHT40_Nss1,(MCS0)_2TX	40.59M	37.781M	37M8D1D	38.94M	37.531M
802.11be EHT80_Nss1,(MCS15)_2TX	81.4M	77.461M	77M5D1D	80.08M	76.862M
802.11be EHT160_Nss1,(MCS15)_2TX	239.8M	156.922M	157MD1D	161.04M	155.722M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	21.78M	19.015M	19M0D1D	20.46M	18.941M
802.11be EHT40_Nss1,(MCS0)_2TX	40.15M	37.931M	37M9D1D	38.83M	37.531M
802.11be EHT80_Nss1,(MCS15)_2TX	81.4M	77.361M	77M4D1D	80.08M	76.762M
802.11be EHT160_Nss1,(MCS15)_2TX	168.52M	156.722M	157MD1D	162.8M	156.522M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	21.23M	19.14M	19M1D1D	20.405M	18.916M
802.11be EHT40_Nss1,(MCS0)_2TX	40.26M	37.831M	37M8D1D	39.38M	37.531M
802.11be EHT80_Nss1,(MCS15)_2TX	81.62M	77.661M	77M7D1D	80.08M	76.962M
802.11be EHT160_Nss1,(MCS15)_2TX	217.36M	157.121M	157MD1D	161.92M	156.122M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	21.34M	19.065M	19M1D1D	20.79M	18.916M
802.11be EHT40_Nss1,(MCS0)_2TX	39.71M	37.831M	37M8D1D	39.16M	37.581M
802.11be EHT80_Nss1,(MCS15)_2TX	114.62M	77.361M	77M4D1D	80.52M	76.862M
802.11be EHT160_Nss1,(MCS15)_2TX	171.16M	157.321M	157MD1D	165M	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

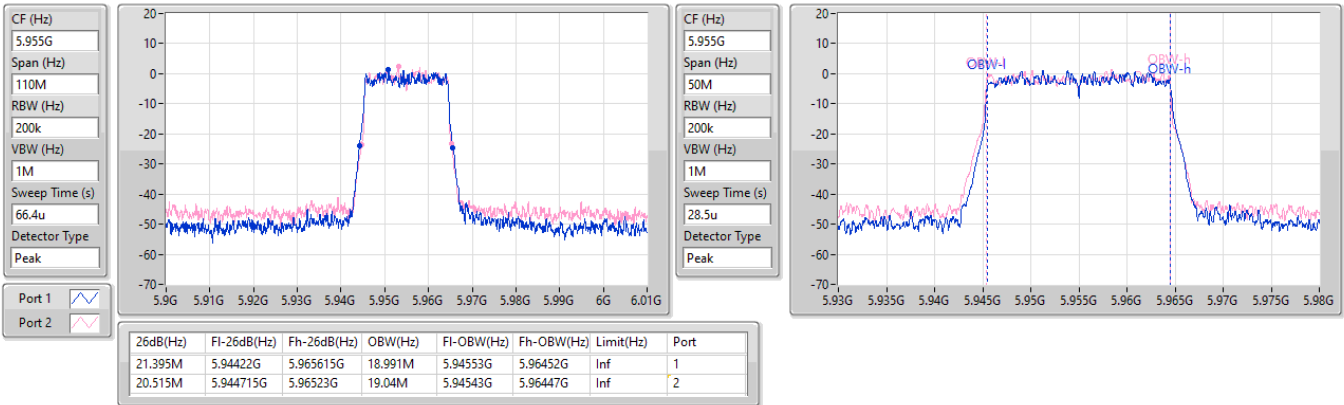
Result

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_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.395M	18.991M	20.515M	19.04M
6195MHz	Pass	Inf	21.505M	19.015M	20.68M	19.09M
6415MHz	Pass	Inf	21.23M	18.941M	20.9M	19.04M
6435MHz	Pass	Inf	21.395M	18.966M	20.46M	18.966M
6475MHz	Pass	Inf	20.57M	18.941M	21.175M	18.991M
6515MHz	Pass	Inf	21.78M	18.941M	20.9M	19.015M
6535MHz	Pass	Inf	20.625M	18.991M	21.01M	18.966M
6695MHz	Pass	Inf	20.405M	18.941M	20.515M	18.916M
6875MHz	Pass	Inf	21.12M	19.065M	21.23M	19.14M
6895MHz	Pass	Inf	21.23M	18.916M	20.79M	19.04M
6995MHz	Pass	Inf	21.12M	19.04M	21.12M	19.065M
7095MHz	Pass	Inf	21.34M	18.991M	21.285M	18.916M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	39.93M	37.731M	39.38M	37.531M
6205MHz	Pass	Inf	40.59M	37.781M	40.37M	37.731M
6405MHz	Pass	Inf	39.16M	37.781M	38.94M	37.781M
6445MHz	Pass	Inf	38.83M	37.931M	39.05M	37.531M
6485MHz	Pass	Inf	39.93M	37.631M	39.49M	37.781M
6525MHz	Pass	Inf	40.15M	37.881M	39.82M	37.581M
6565MHz	Pass	Inf	40.26M	37.781M	40.26M	37.531M
6685MHz	Pass	Inf	39.6M	37.781M	39.93M	37.631M
6885MHz	Pass	Inf	39.6M	37.831M	39.38M	37.531M
6925MHz	Pass	Inf	39.71M	37.731M	39.16M	37.781M
7005MHz	Pass	Inf	39.16M	37.731M	39.38M	37.631M
7085MHz	Pass	Inf	39.38M	37.831M	39.38M	37.581M
802.11be EHT80_Nss1,(MCS15)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	81.4M	77.361M	80.96M	77.261M
6225MHz	Pass	Inf	80.08M	77.161M	80.08M	77.161M
6385MHz	Pass	Inf	81.18M	76.862M	80.52M	77.461M
6465MHz	Pass	Inf	80.08M	76.962M	81.4M	77.361M
6545MHz	Pass	Inf	80.74M	76.762M	80.52M	77.261M
6625MHz	Pass	Inf	80.08M	77.061M	80.96M	76.962M
6705MHz	Pass	Inf	80.52M	77.361M	80.52M	77.061M
6785MHz	Pass	Inf	81.62M	77.061M	80.52M	77.161M
6865MHz	Pass	Inf	80.3M	77.661M	80.52M	77.061M
6945MHz	Pass	Inf	80.74M	77.361M	114.62M	77.261M
7025MHz	Pass	Inf	80.52M	77.061M	81.18M	76.862M
802.11be EHT160_Nss1,(MCS15)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	161.92M	155.722M	161.04M	156.522M
6185MHz	Pass	Inf	239.8M	156.722M	177.76M	156.922M
6345MHz	Pass	Inf	161.92M	156.522M	162.8M	156.322M
6505MHz	Pass	Inf	162.8M	156.522M	168.52M	156.722M
6665MHz	Pass	Inf	161.92M	156.122M	162.8M	156.722M
6825MHz	Pass	Inf	178.64M	156.322M	217.36M	157.121M
6985MHz	Pass	Inf	165M	156.322M	171.16M	157.321M

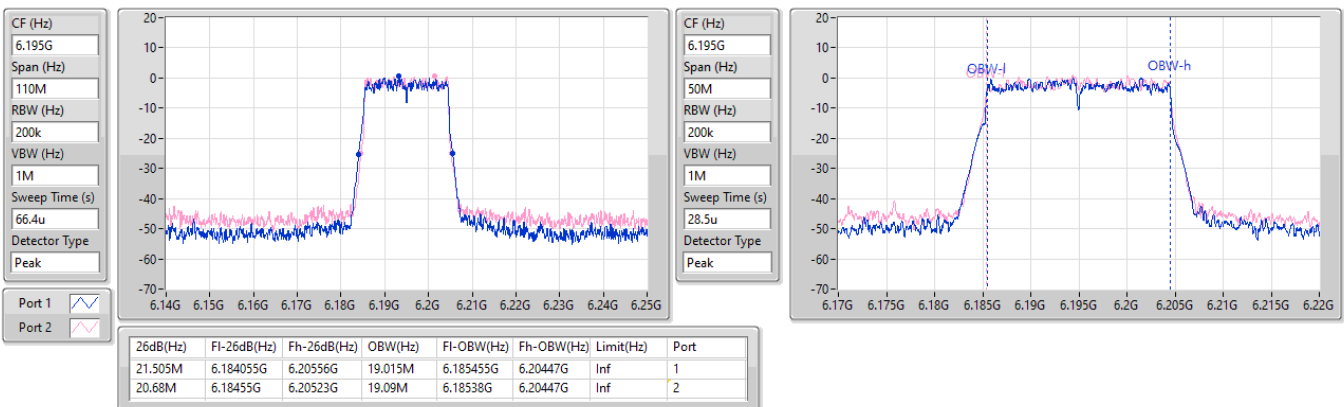
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5955MHz

05/02/2024


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6195MHz

05/02/2024

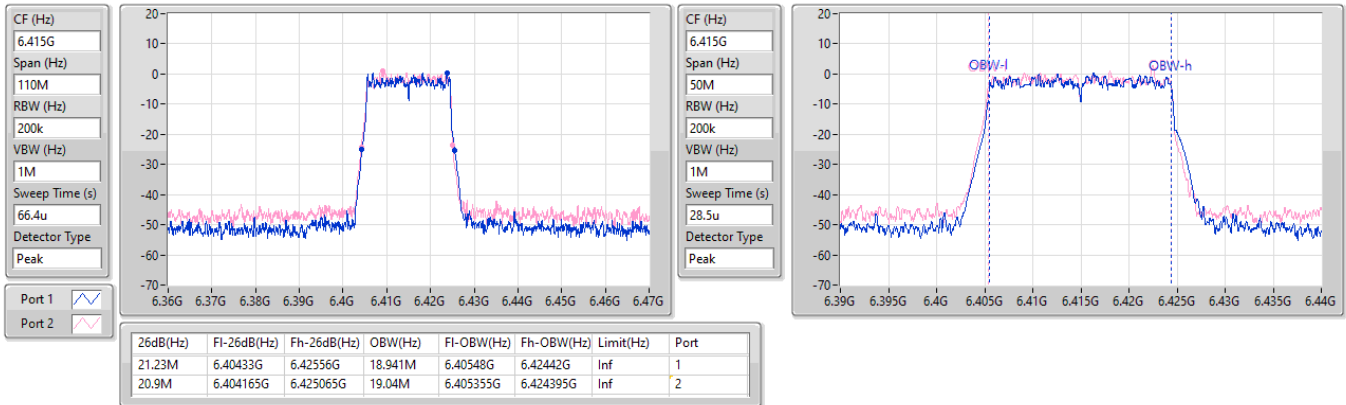


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6415MHz

05/02/2024

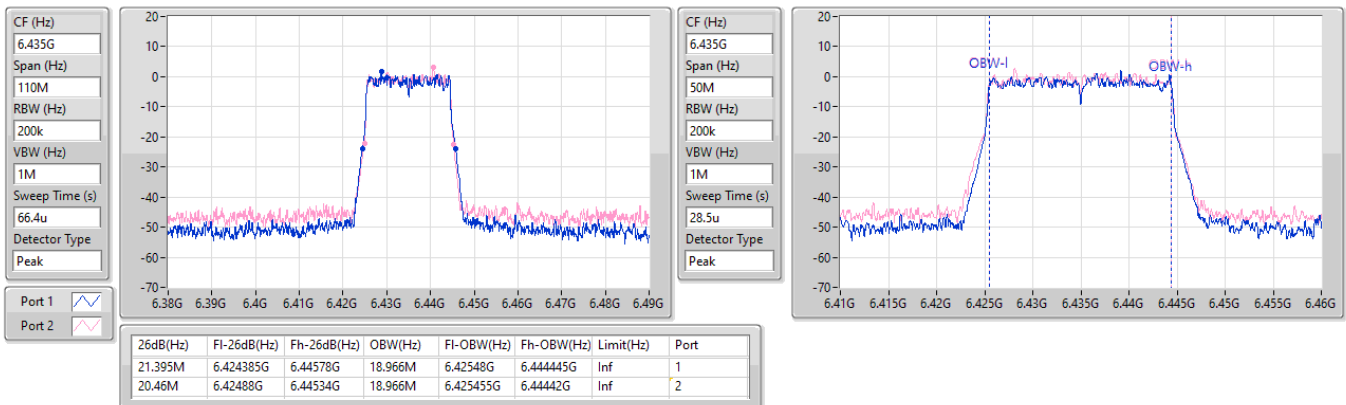


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6435MHz

05/02/2024

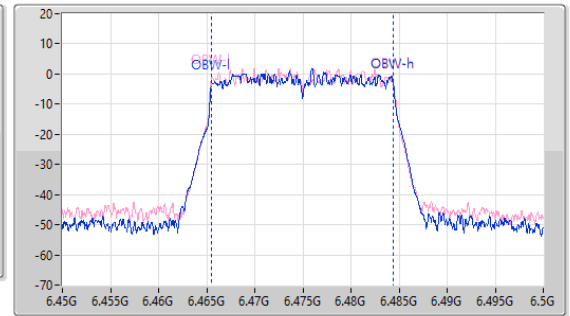
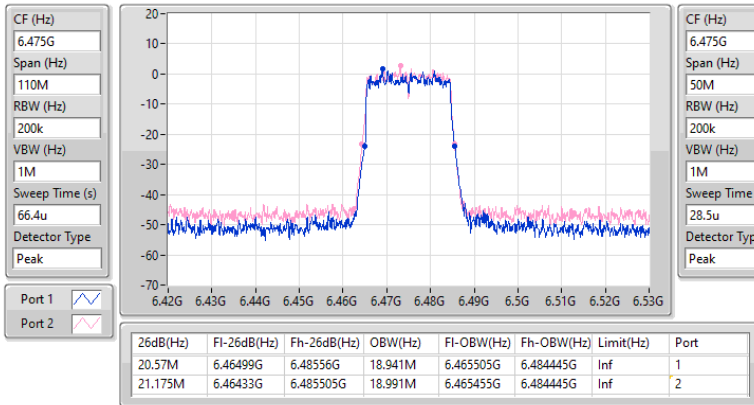


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6475MHz

05/02/2024

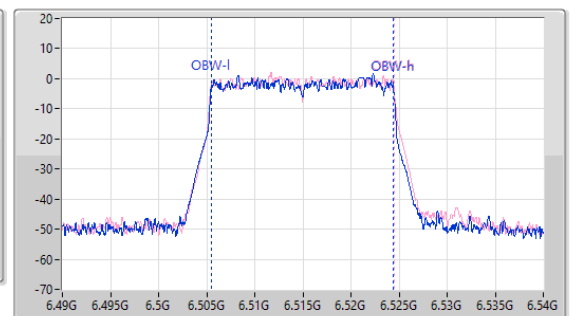
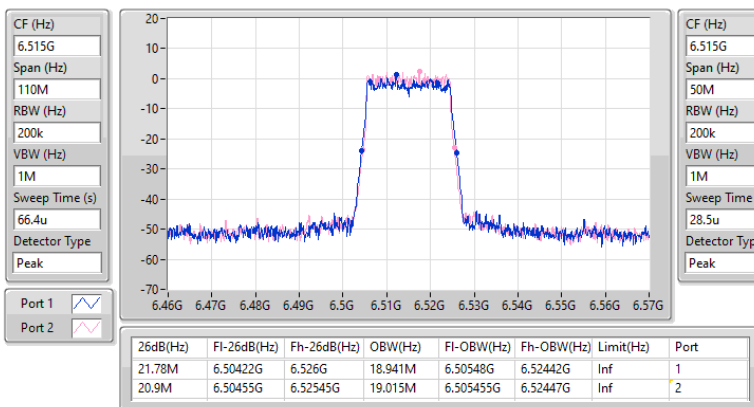


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6515MHz

05/02/2024

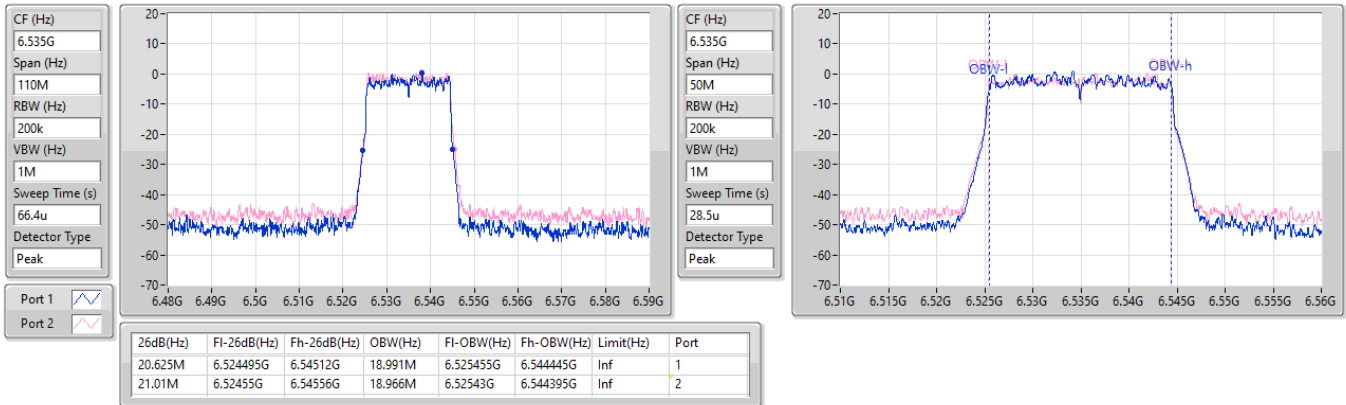


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6535MHz

05/02/2024

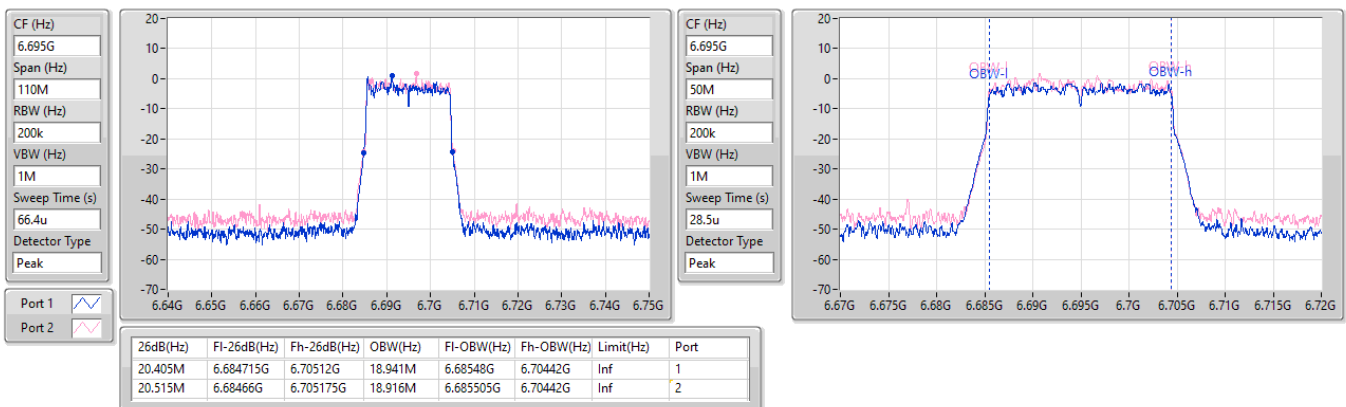


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6695MHz

05/02/2024

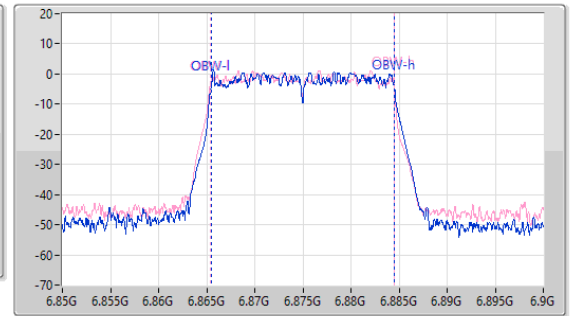
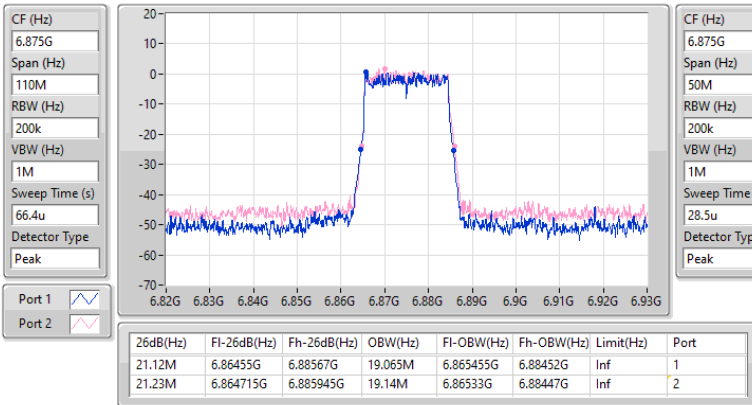


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6875MHz

05/02/2024

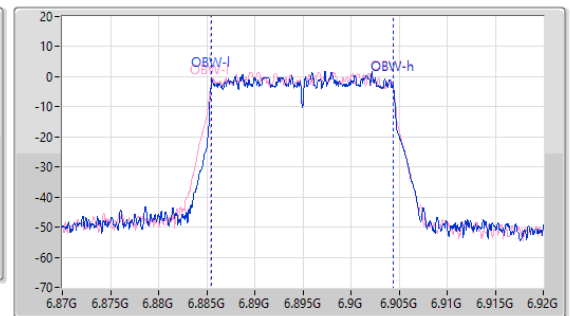
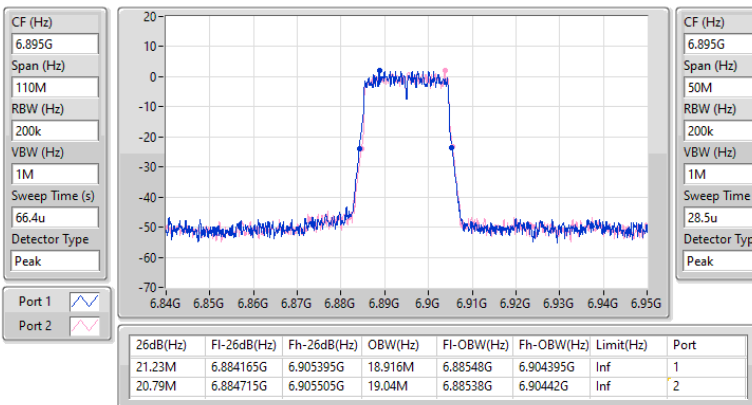


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6895MHz

05/02/2024

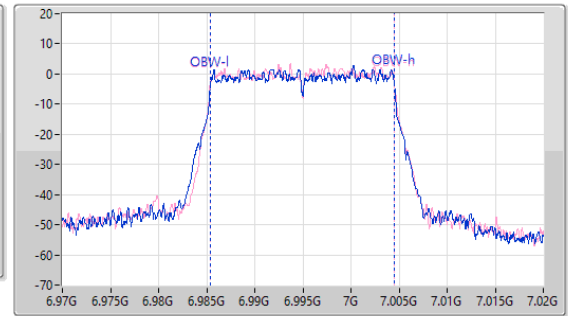
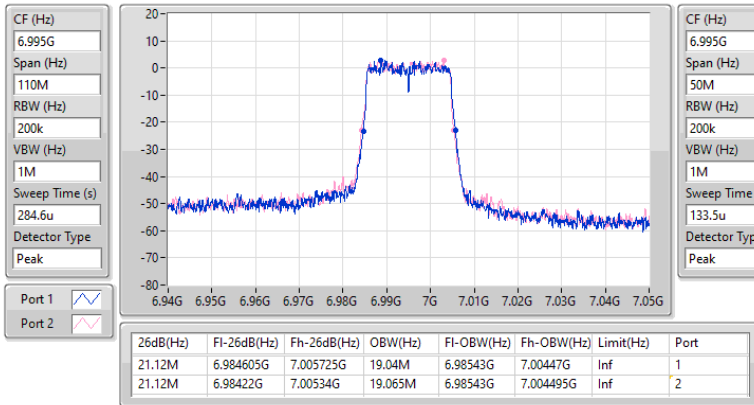


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6995MHz

05/02/2024

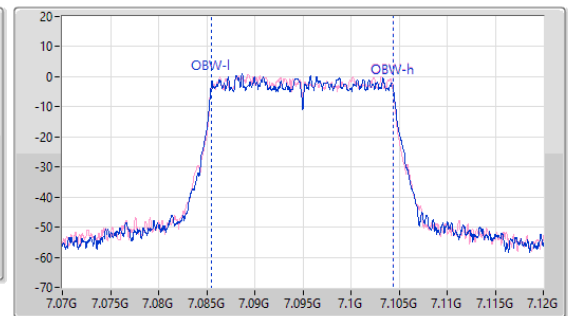
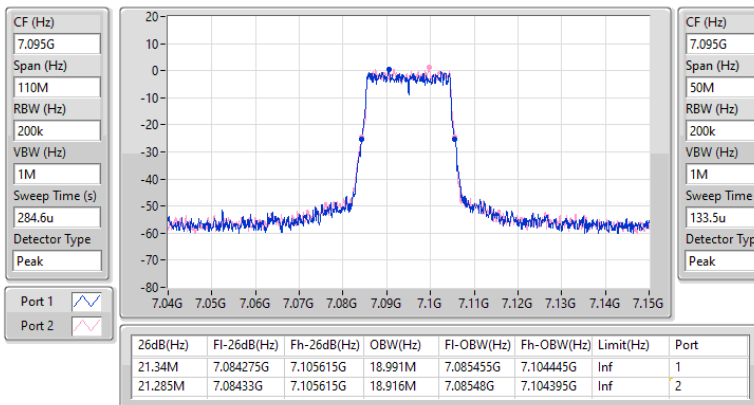


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

7095MHz

05/02/2024

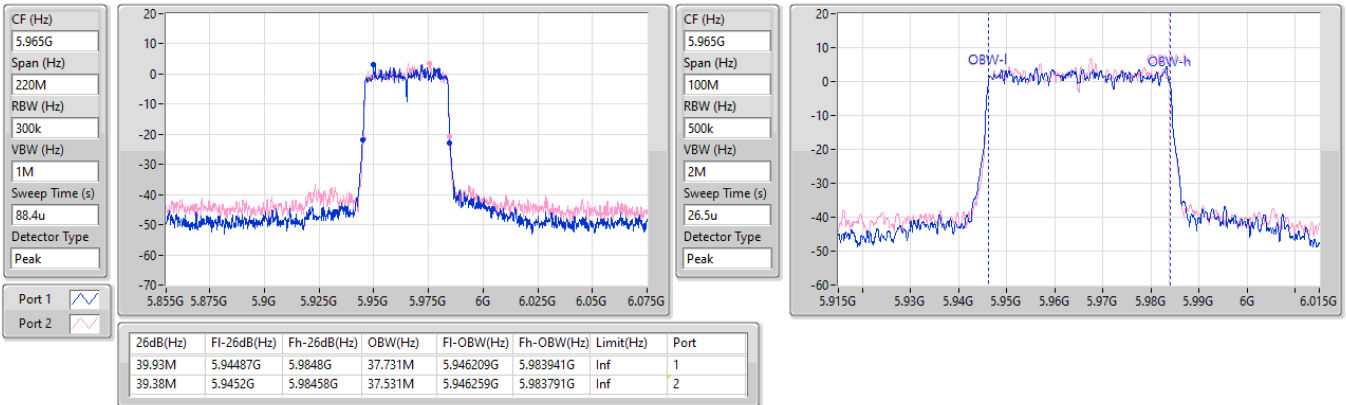


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5965MHz

05/02/2024

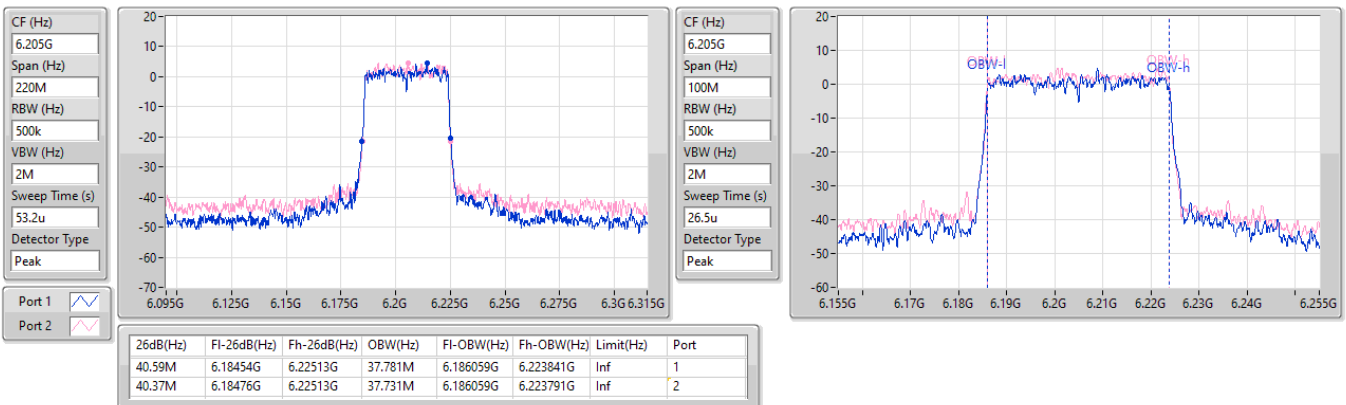


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6205MHz

05/02/2024

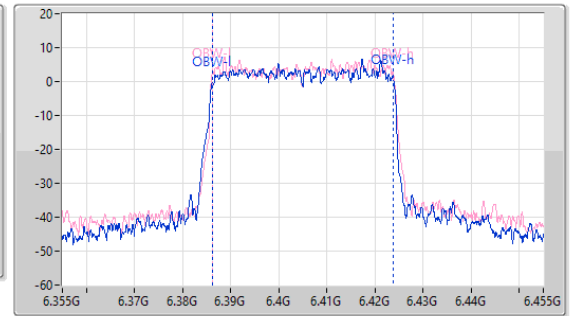
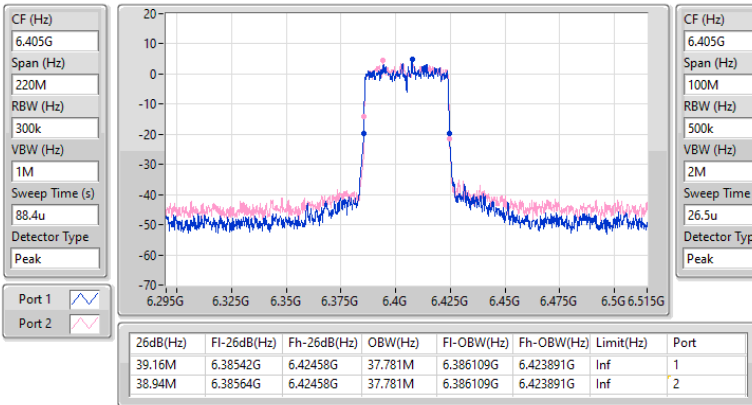


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6405MHz

05/02/2024

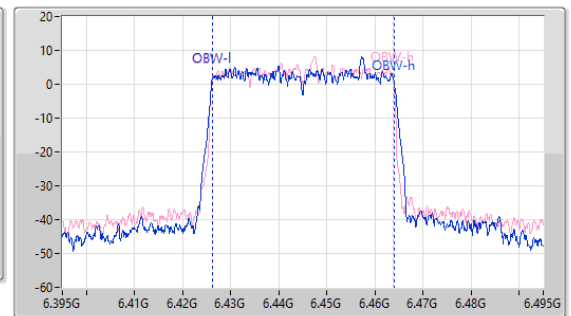
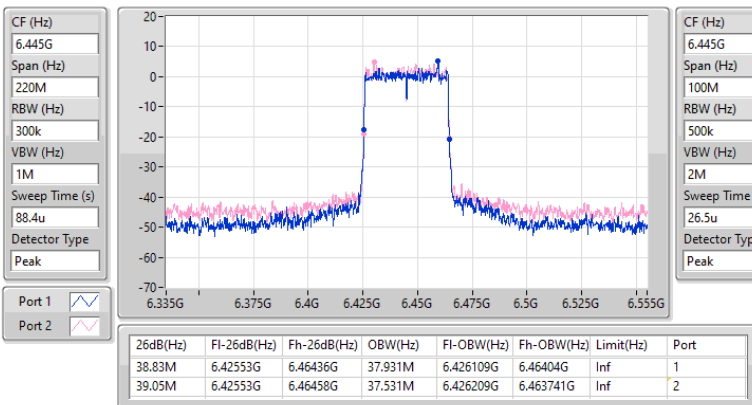


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

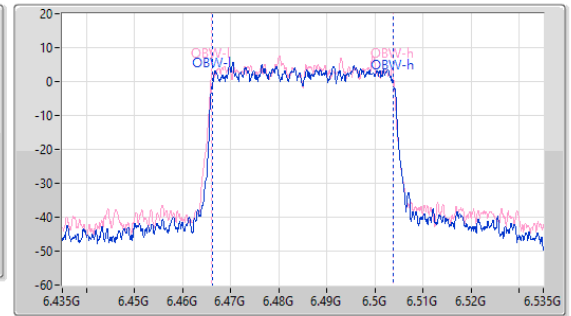
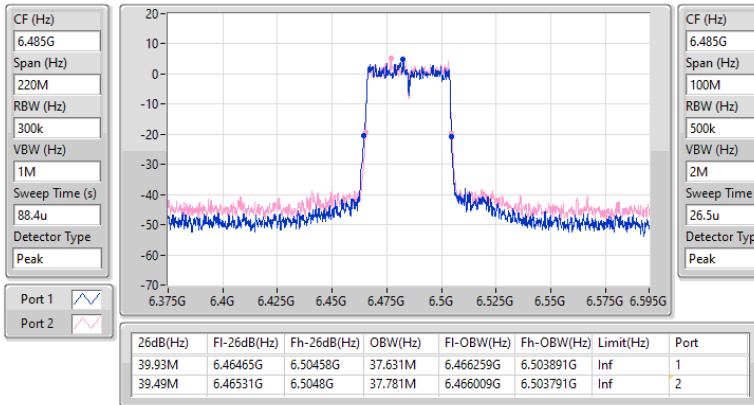
6445MHz

05/02/2024

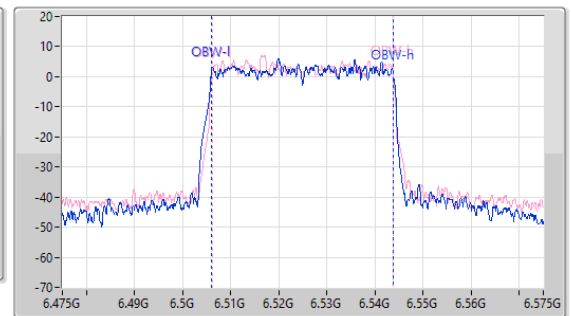
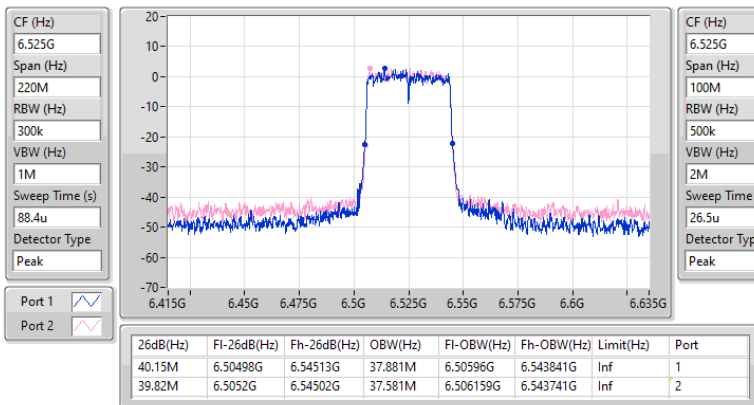


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
6485MHz

05/02/2024


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
6525MHz

05/02/2024

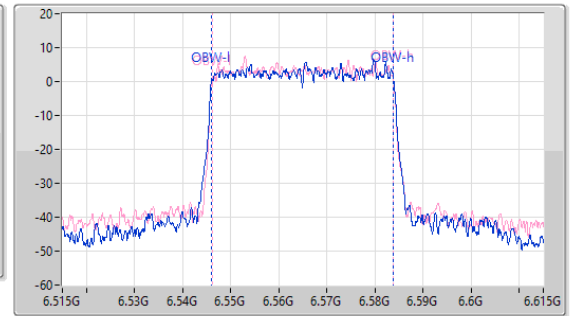
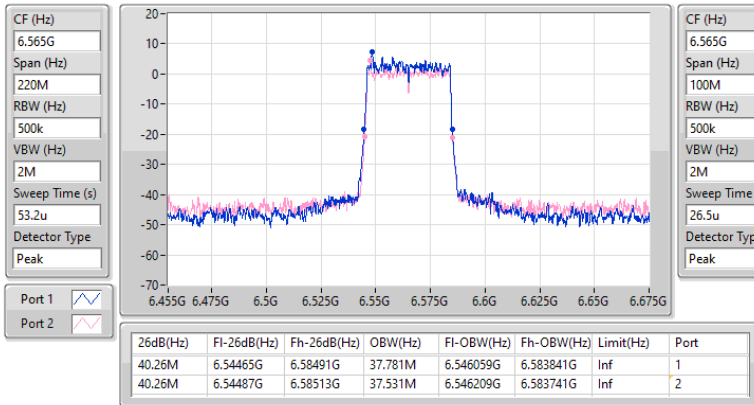


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6565MHz

05/02/2024

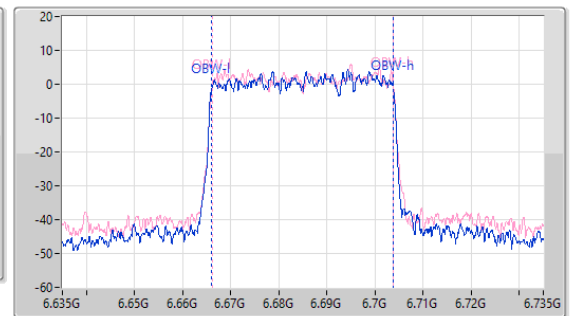
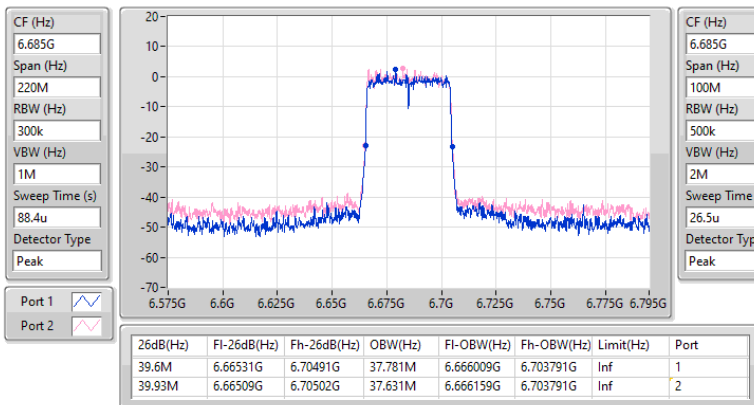


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6685MHz

05/02/2024

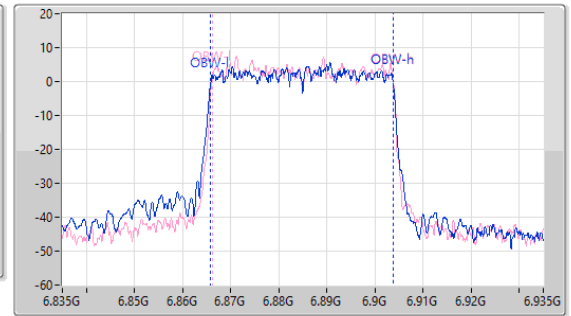
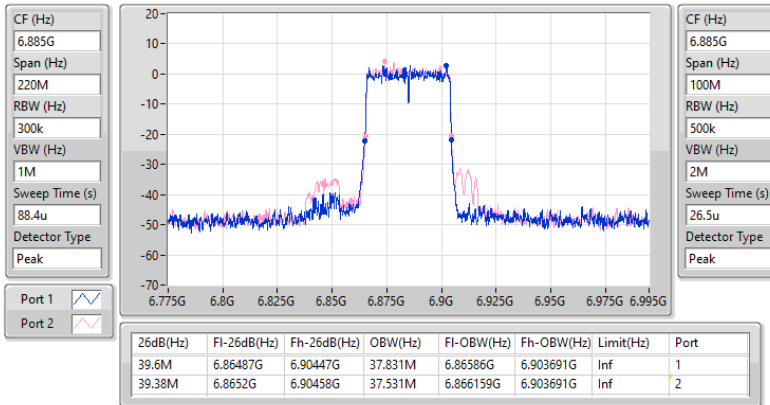


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6885MHz

05/02/2024

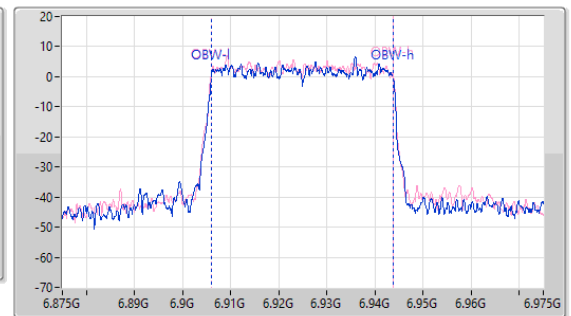
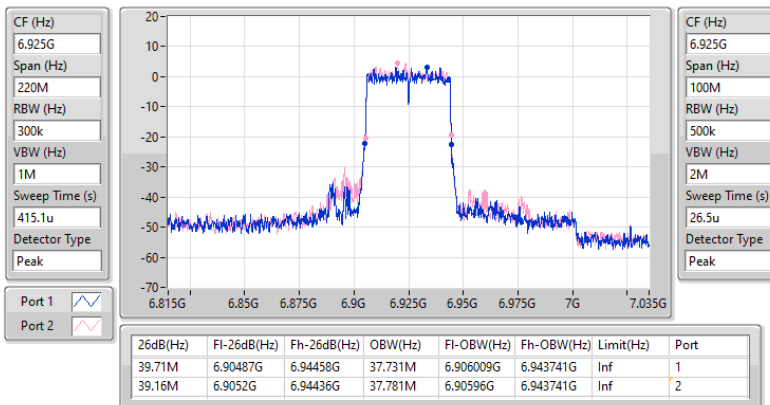


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

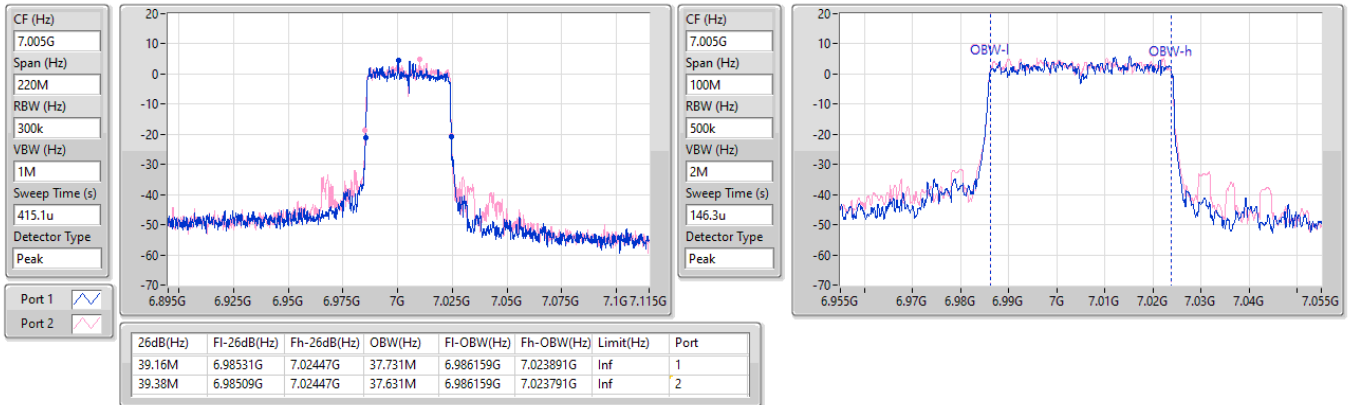
6925MHz

05/02/2024

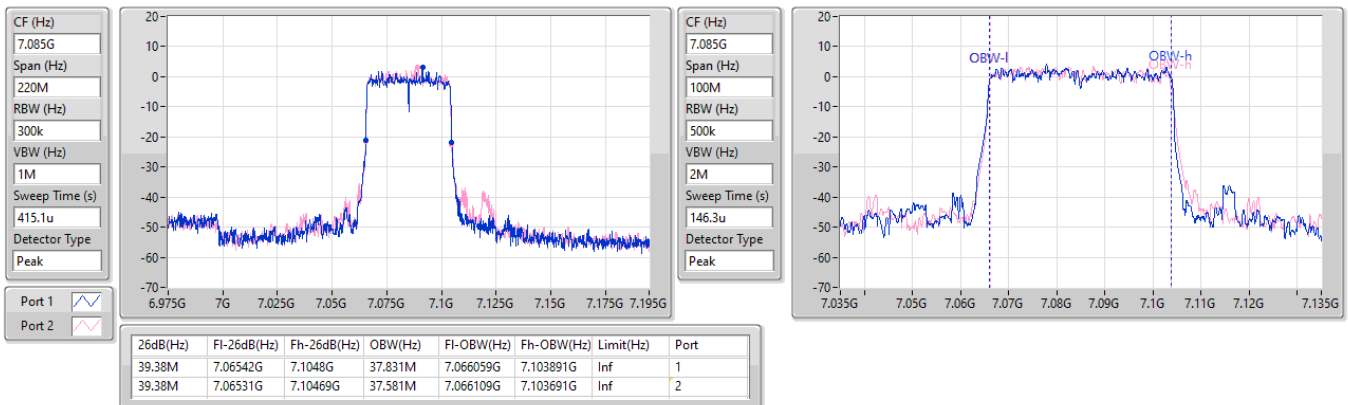


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
7005MHz

05/02/2024


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
7085MHz

05/02/2024

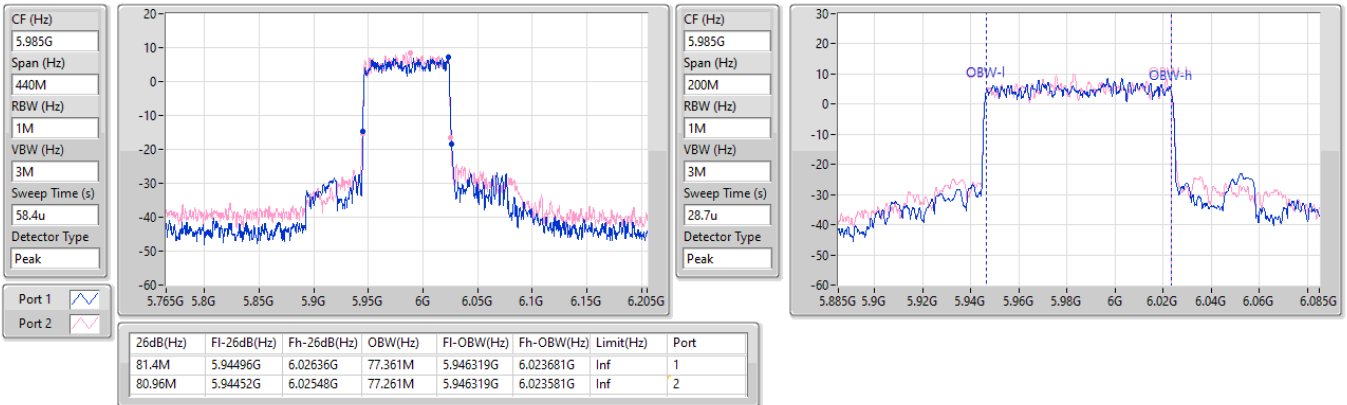


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS15)_2TX

EBW

5985MHz

05/02/2024

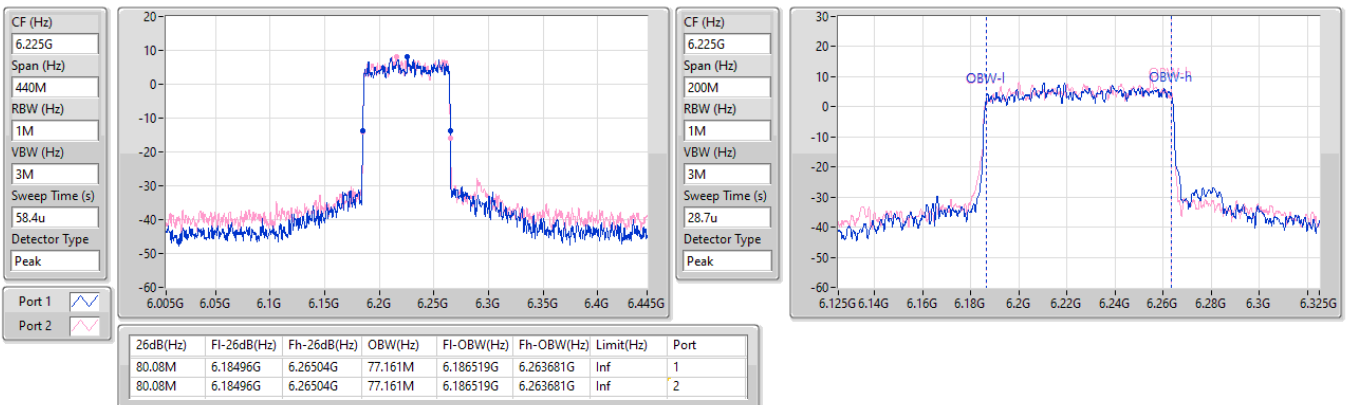


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS15)_2TX

EBW

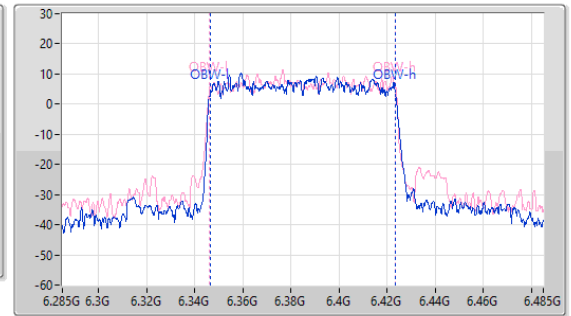
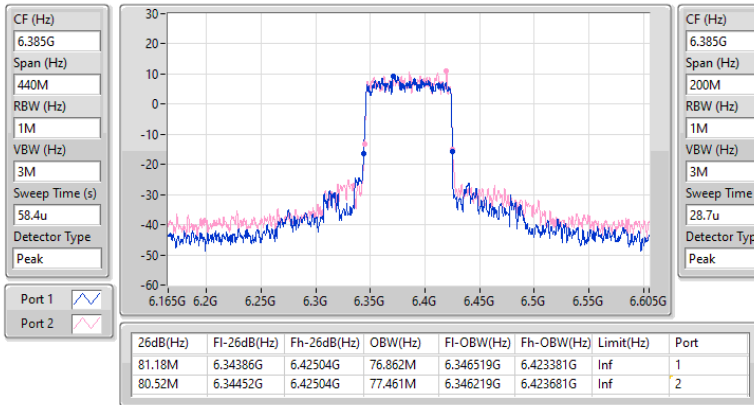
6225MHz

05/02/2024

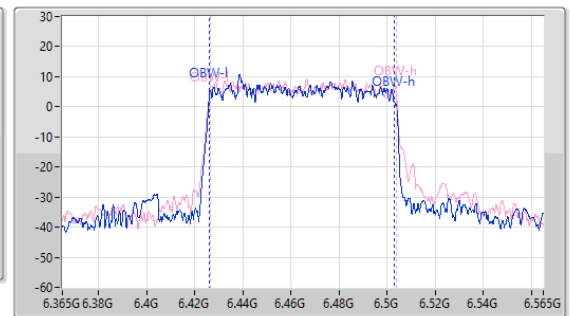
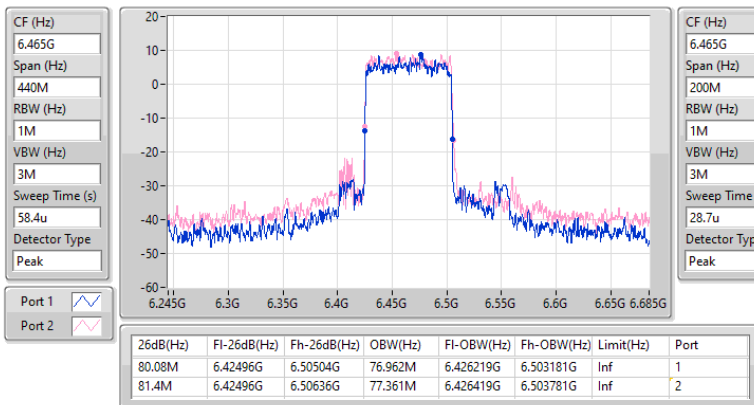


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS15)_2TX
EBW
6385MHz

05/02/2024

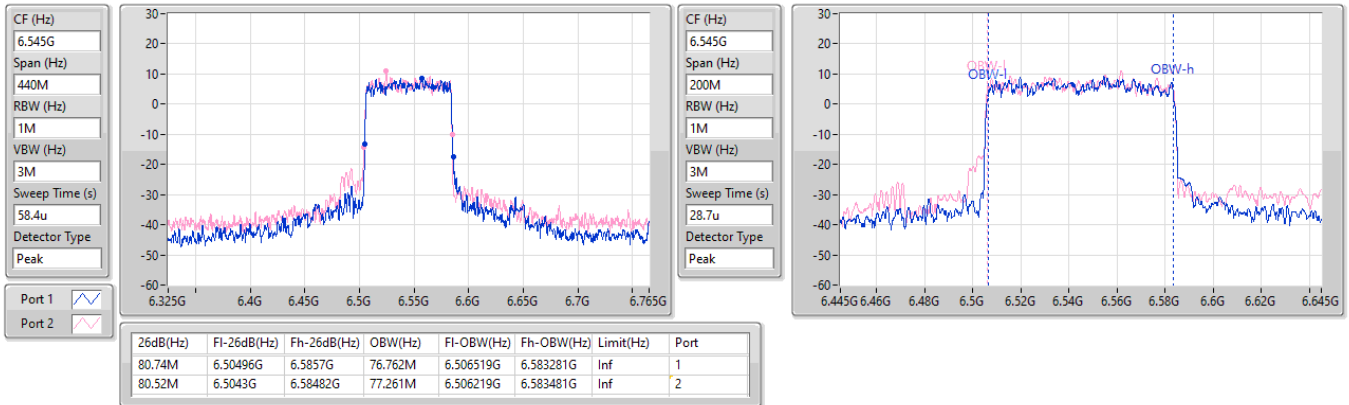

6.425-6.525GHz_802.11be EHT80_Nss1,(MCS15)_2TX
EBW
6465MHz

05/02/2024

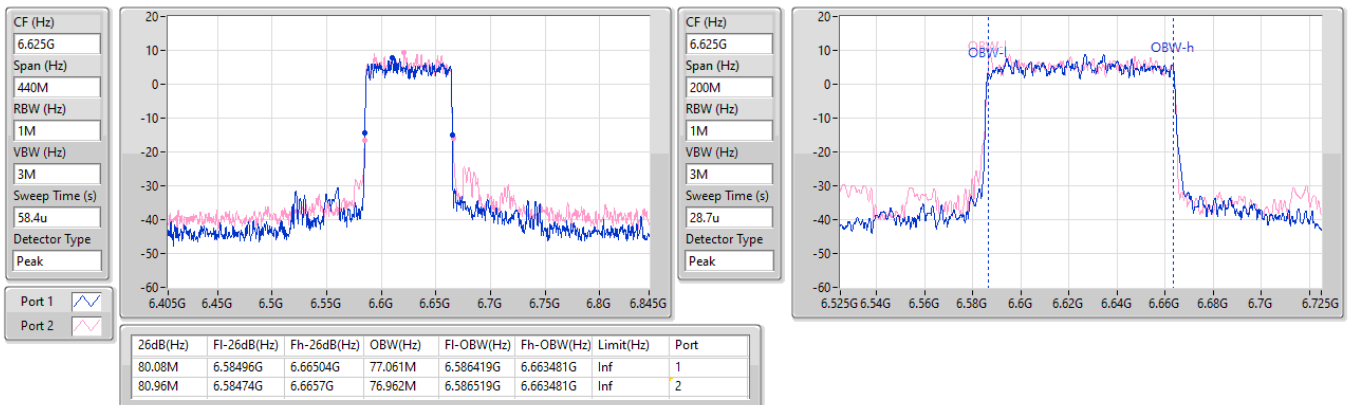


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS15)_2TX
EBW
6545MHz

05/02/2024


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS15)_2TX
EBW
6625MHz

05/02/2024

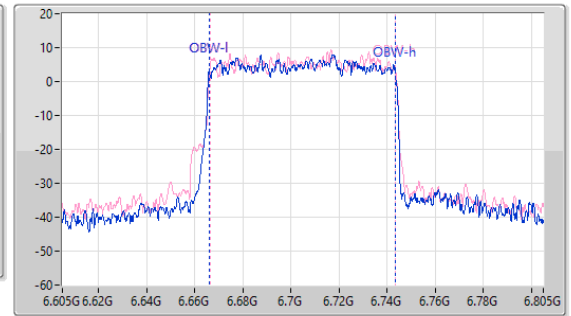
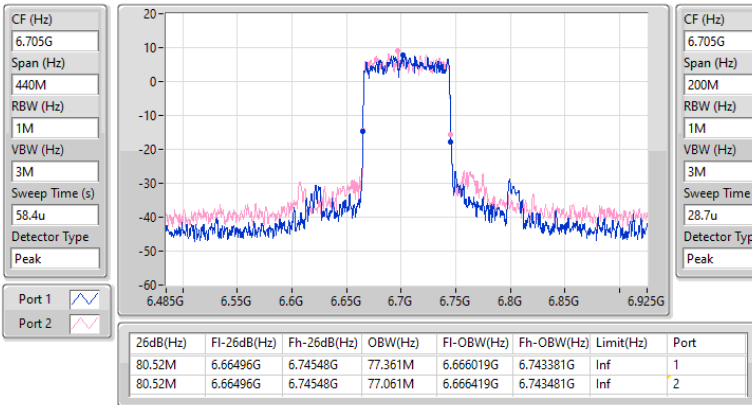


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS15)_2TX

EBW

6705MHz

05/02/2024

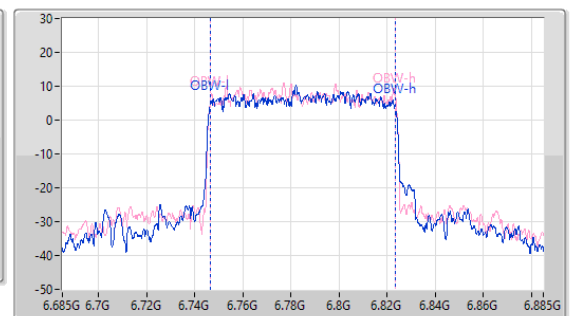
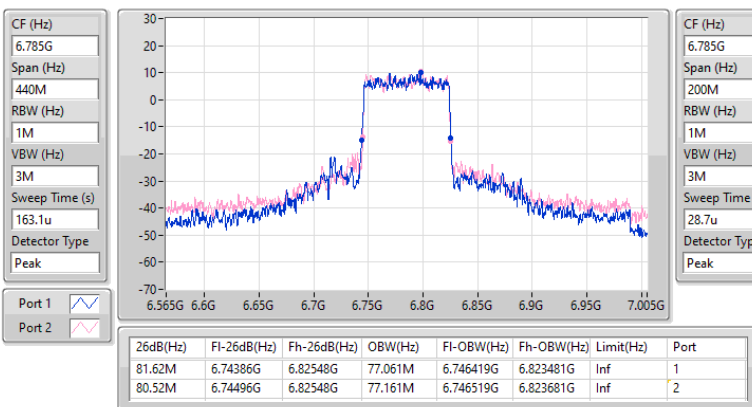


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS15)_2TX

EBW

6785MHz

05/02/2024

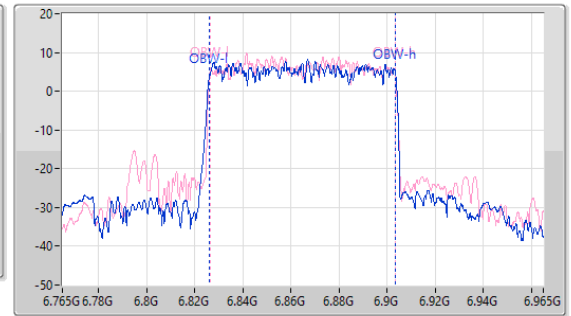
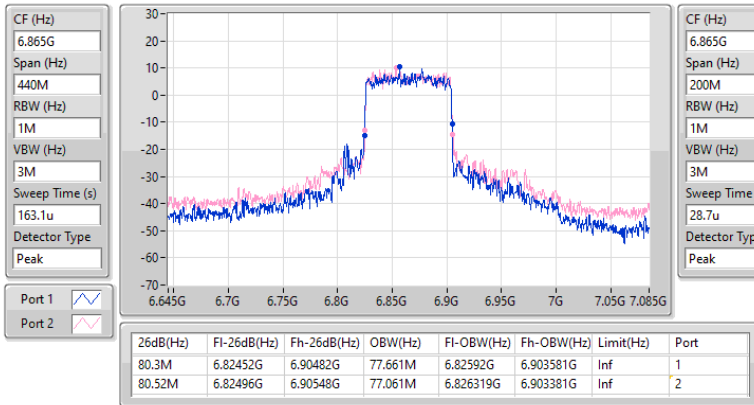


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS15)_2TX

EBW

6865MHz

05/02/2024

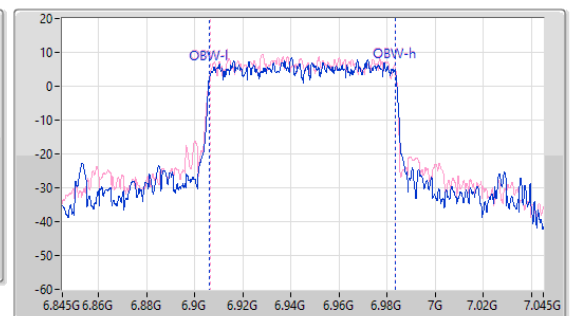
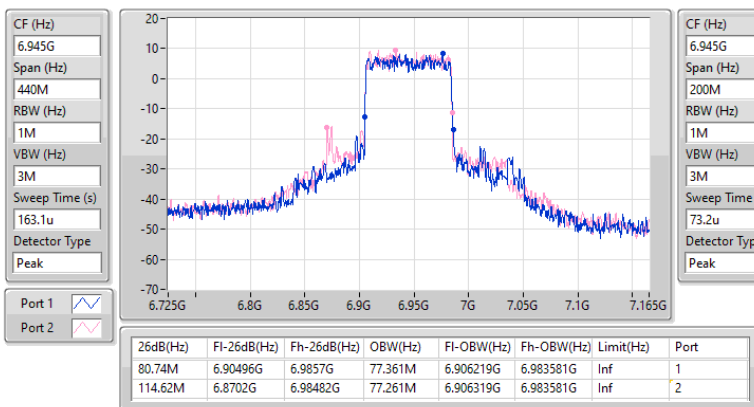


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS15)_2TX

EBW

6945MHz

05/02/2024

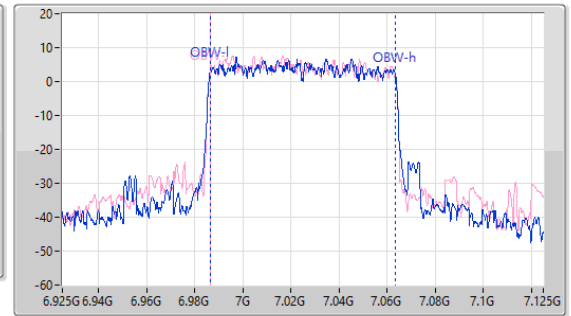
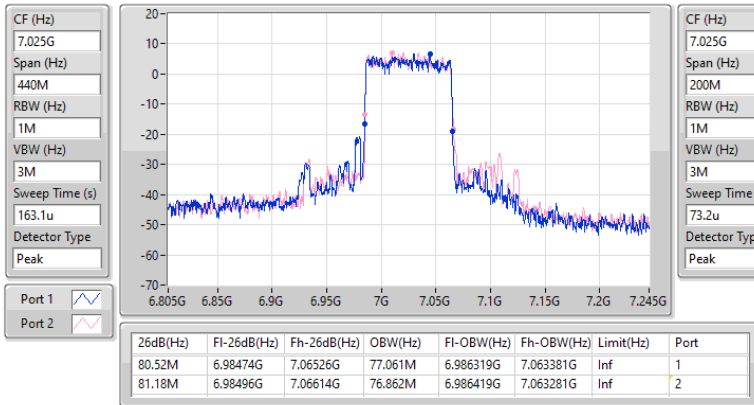


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS15)_2TX

EBW

7025MHz

05/02/2024

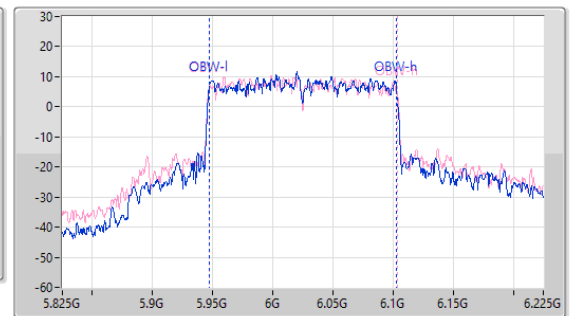
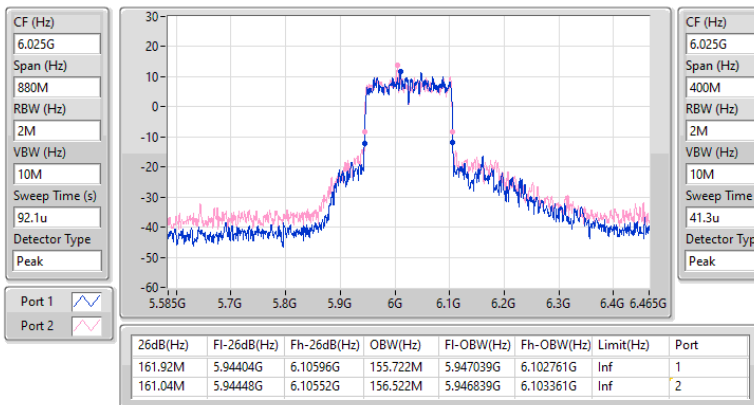


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS15)_2TX

EBW

6025MHz

05/02/2024

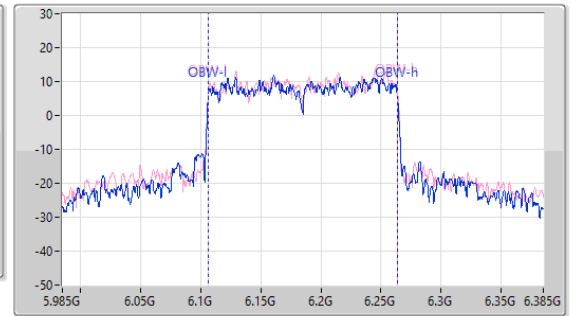
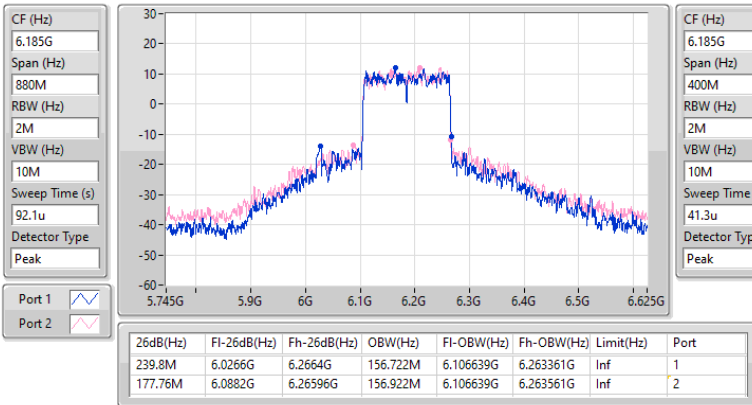


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS15)_2TX

EBW

6185MHz

05/02/2024

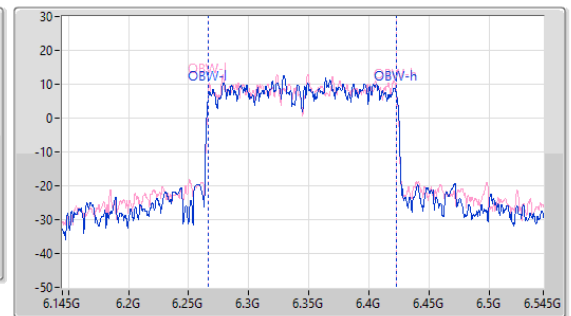
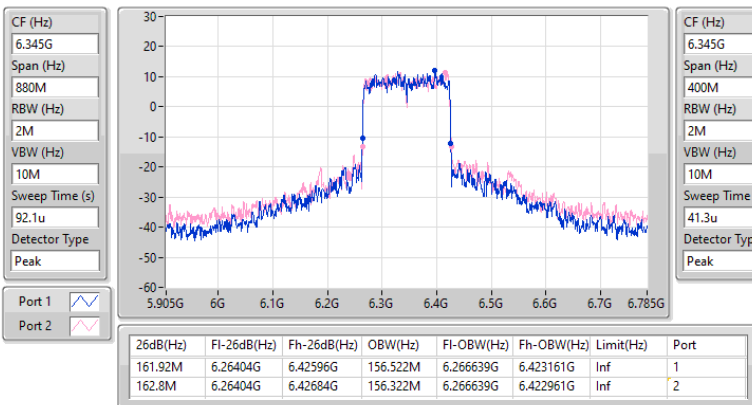


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS15)_2TX

EBW

6345MHz

05/02/2024

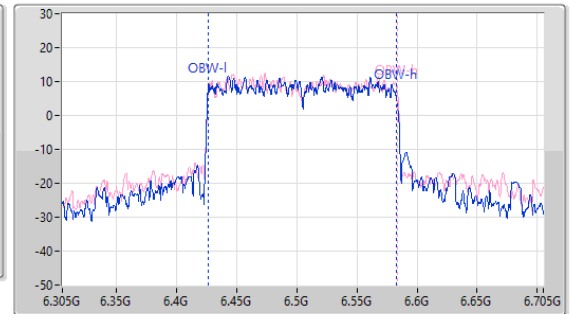
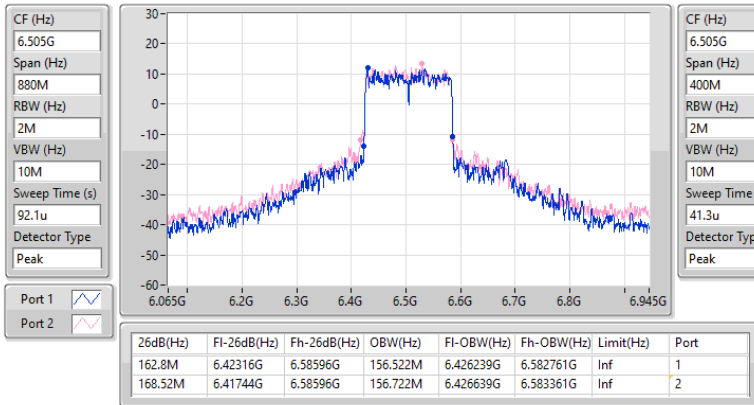


6.425-6.525GHz_802.11be EHT160_Nss1,(MCS15)_2TX

EBW

6505MHz

05/02/2024

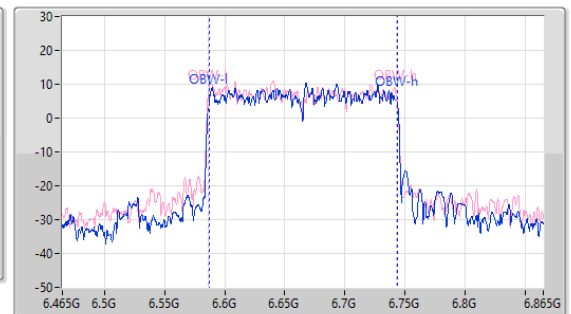
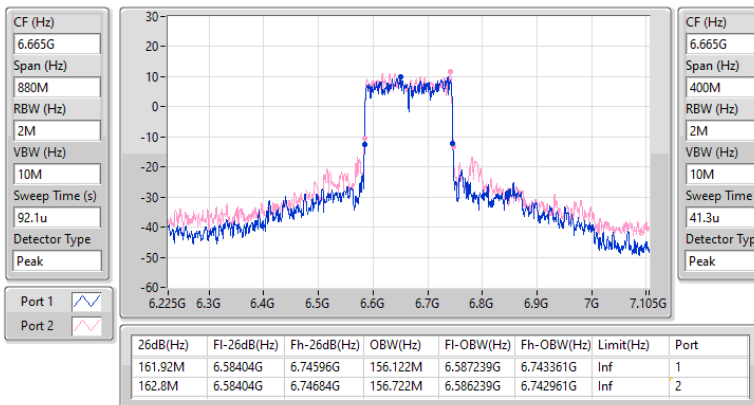


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS15)_2TX

EBW

6665MHz

05/02/2024

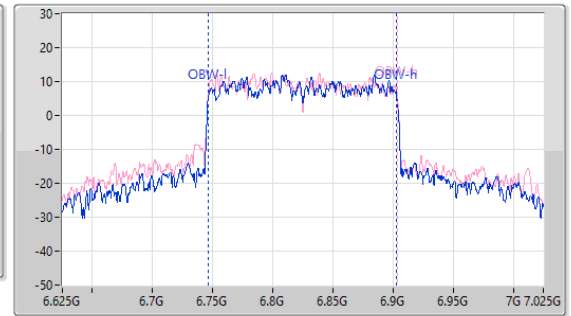
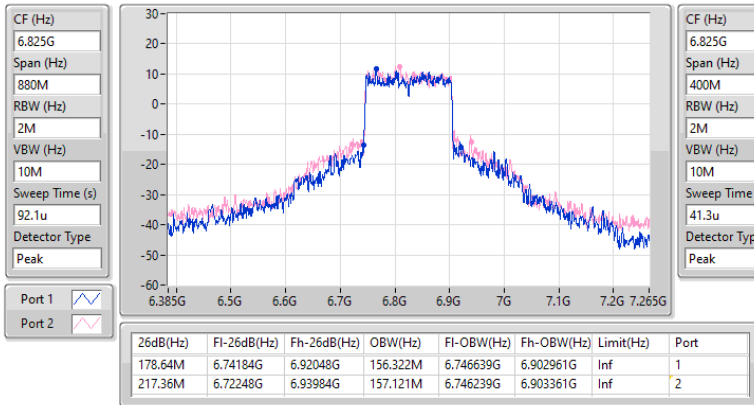


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS15)_2TX

EBW

6825MHz

05/02/2024

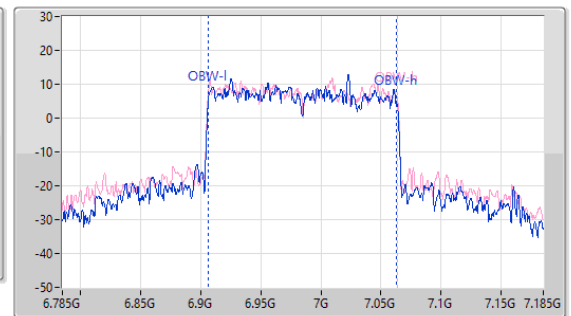
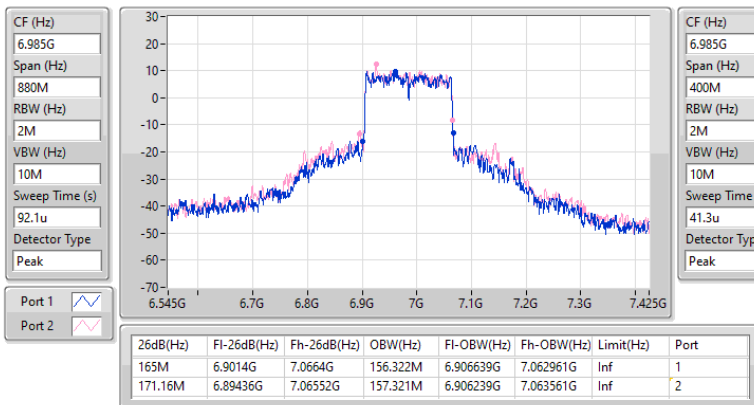


6.875-7.125GHz_802.11be EHT160_Nss1,(MCS15)_2TX

EBW

6985MHz

05/02/2024



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_Nss1,(MCS0)_2TX	21.285M	19.115M	19M1D1D	20.735M	18.941M
802.11be EHT20_Nss2,(MCS0)_2TX	21.56M	19.09M	19M1D1D	20.845M	18.966M
802.11be EHT40_Nss1,(MCS0)_2TX	39.82M	37.731M	37M7D1D	39.05M	37.531M
802.11be EHT40_Nss2,(MCS0)_2TX	40.48M	37.781M	37M8D1D	39.27M	37.531M
802.11be EHT80_Nss1,(MCS0)_2TX	81.18M	77.461M	77M5D1D	80.08M	76.962M
802.11be EHT80_Nss2,(MCS0)_2TX	82.06M	77.461M	77M5D1D	79.86M	76.962M
802.11be EHT160_Nss1,(MCS0)_2TX	190.08M	156.922M	157MD1D	161.92M	156.122M
802.11be EHT160_Nss2,(MCS0)_2TX	293.48M	158.321M	158MD1D	166.32M	156.522M
802.11be EHT320_Nss1,(MCS0)_2TX	619.52M	319.648M	320MD1D	483.12M	316.608M
802.11be EHT320_Nss2,(MCS0)_2TX	647.616M	319.744M	320MD1D	446.336M	316.608M
6.425-6.525GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	21.34M	19.165M	19M2D1D	20.295M	18.991M
802.11be EHT20_Nss2,(MCS0)_2TX	21.45M	19.04M	19MOD1D	20.735M	18.991M
802.11be EHT40_Nss1,(MCS0)_2TX	39.71M	38.031M	38MOD1D	39.27M	37.601M
802.11be EHT40_Nss2,(MCS0)_2TX	39.93M	37.831M	37M8D1D	39.12M	37.541M
802.11be EHT80_Nss1,(MCS0)_2TX	80.96M	77.361M	77M4D1D	80.16M	76.962M
802.11be EHT80_Nss2,(MCS0)_2TX	81.84M	77.661M	77M7D1D	80.08M	76.882M
802.11be EHT160_Nss1,(MCS0)_2TX	162M	156.402M	156MD1D	162M	156.162M
802.11be EHT160_Nss2,(MCS0)_2TX	178.8M	157.121M	157MD1D	162.48M	157.121M
802.11be EHT320_Nss1,(MCS0)_2TX	606.528M	319.84M	320MD1D	604.224M	319.072M
802.11be EHT320_Nss2,(MCS0)_2TX	607.584M	319.456M	319MD1D	599.712M	318.688M
6.525-6.875GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	21.67M	19.115M	19M1D1D	20.97M	18.981M
802.11be EHT20_Nss2,(MCS0)_2TX	21.67M	19.215M	19M2D1D	20.46M	18.966M
802.11be EHT40_Nss1,(MCS0)_2TX	39.6M	37.681M	37M7D1D	38.94M	37.581M
802.11be EHT40_Nss2,(MCS0)_2TX	40.08M	37.781M	37M8D1D	39.27M	37.631M
802.11be EHT80_Nss1,(MCS0)_2TX	80.96M	77.361M	77M4D1D	79.92M	76.762M
802.11be EHT80_Nss2,(MCS0)_2TX	81.84M	77.461M	77M5D1D	80.3M	77.121M
802.11be EHT160_Nss1,(MCS0)_2TX	162.36M	156.722M	157MD1D	161.92M	156.162M
802.11be EHT160_Nss2,(MCS0)_2TX	217.92M	157.601M	158MD1D	163.24M	155.922M
802.11be EHT320_Nss1,(MCS0)_2TX	593.952M	319.552M	320MD1D	580.704M	318.4M
802.11be EHT320_Nss2,(MCS0)_2TX	605.472M	319.936M	320MD1D	581.856M	318.112M
6.875-7.125GHz	-	-	-	-	-
802.11be EHT20_Nss1,(MCS0)_2TX	21.285M	19.165M	19M2D1D	20.13M	18.941M
802.11be EHT20_Nss2,(MCS0)_2TX	21.67M	19.165M	19M2D1D	20.955M	18.916M
802.11be EHT40_Nss1,(MCS0)_2TX	39.82M	37.831M	37M8D1D	39.49M	37.531M
802.11be EHT40_Nss2,(MCS0)_2TX	39.71M	37.881M	37M9D1D	39.38M	37.531M
802.11be EHT80_Nss1,(MCS0)_2TX	80.96M	77.361M	77M4D1D	80.3M	76.862M
802.11be EHT80_Nss2,(MCS0)_2TX	80.74M	77.261M	77M3D1D	80.3M	76.962M
802.11be EHT160_Nss1,(MCS0)_2TX	176.88M	156.522M	157MD1D	161.92M	155.922M
802.11be EHT160_Nss2,(MCS0)_2TX	163.24M	156.722M	157MD1D	163.24M	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

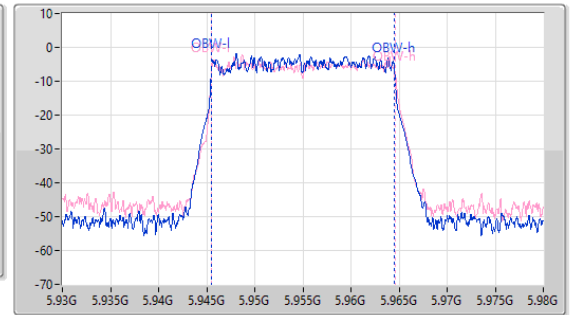
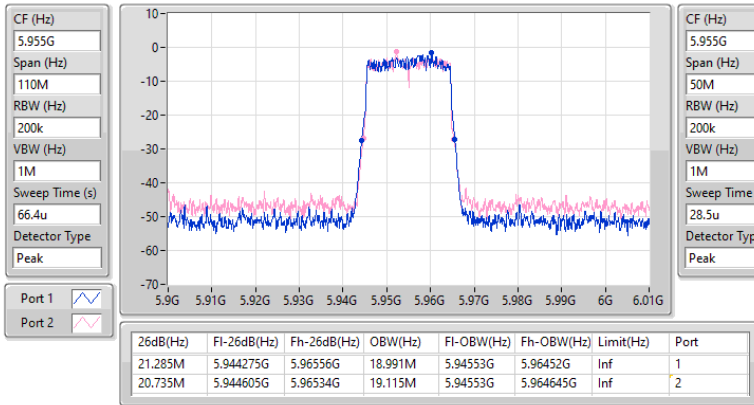
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.285M	18.991M	20.735M	19.115M
6195MHz	Pass	Inf	20.845M	19.015M	21.12M	19.015M
6415MHz	Pass	Inf	20.79M	18.941M	20.735M	19.065M
6435MHz	Pass	Inf	20.625M	18.991M	21.12M	18.991M
6475MHz	Pass	Inf	21.34M	19.165M	20.955M	19.04M
6515MHz	Pass	Inf	20.79M	19.04M	20.295M	19.015M
6535MHz	Pass	Inf	21.56M	19.09M	21.34M	19.04M
6695MHz	Pass	Inf	21.395M	18.991M	21.67M	19.115M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	20.97M	18.981M	21M	19.07M
6895MHz	Pass	Inf	21.12M	18.941M	20.68M	19.165M
6995MHz	Pass	Inf	20.13M	19.115M	20.735M	18.991M
7095MHz	Pass	Inf	20.845M	19.09M	21.285M	19.165M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	39.05M	37.631M	39.71M	37.581M
6205MHz	Pass	Inf	39.27M	37.531M	39.71M	37.581M
6405MHz	Pass	Inf	39.49M	37.731M	39.82M	37.531M
6445MHz	Pass	Inf	39.27M	37.731M	39.49M	37.631M
6485MHz	Pass	Inf	39.71M	38.031M	39.6M	37.931M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	39.42M	37.601M	39.66M	37.601M
6565MHz	Pass	Inf	39.38M	37.681M	39.49M	37.681M
6685MHz	Pass	Inf	39.27M	37.581M	39.6M	37.631M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	38.94M	37.661M	39.42M	37.661M
6925MHz	Pass	Inf	39.6M	37.681M	39.71M	37.681M
7005MHz	Pass	Inf	39.82M	37.681M	39.49M	37.831M
7085MHz	Pass	Inf	39.82M	37.631M	39.6M	37.531M
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	80.08M	76.962M	81.18M	77.461M
6225MHz	Pass	Inf	80.96M	77.061M	80.08M	77.261M
6385MHz	Pass	Inf	81.18M	77.161M	80.74M	77.161M
6465MHz	Pass	Inf	80.96M	76.962M	80.96M	77.061M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	80.16M	77.361M	80.52M	77.001M
6625MHz	Pass	Inf	80.08M	77.061M	80.96M	77.061M
6705MHz	Pass	Inf	80.3M	77.161M	80.96M	77.061M
6785MHz	Pass	Inf	80.74M	76.962M	80.74M	77.361M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	80.16M	76.762M	79.92M	77.241M
6945MHz	Pass	Inf	80.96M	77.261M	80.3M	76.862M
7025MHz	Pass	Inf	80.96M	77.361M	80.74M	77.261M
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	163.24M	156.322M	177.76M	156.122M
6185MHz	Pass	Inf	161.92M	156.922M	190.08M	156.922M
6345MHz	Pass	Inf	162.36M	156.722M	162.36M	156.522M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	162M	156.402M	162M	156.162M
6665MHz	Pass	Inf	161.92M	156.322M	162.36M	156.722M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	162.24M	156.402M	162M	156.162M
6985MHz	Pass	Inf	161.92M	155.922M	176.88M	156.522M
802.11be EHT320_Nss1,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	524.304M	316.608M	483.12M	317.008M
6265MHz	Pass	Inf	619.52M	318.848M	579.392M	319.648M
6425MHz Straddle 5.925-6.425GHz	Pass	Inf	514.56M	318.4M	599.808M	319.36M
6585MHz Straddle 6.425-6.525GHz	Pass	Inf	604.224M	319.072M	606.528M	319.84M
6745MHz Straddle 6.525-6.875GHz	Pass	Inf	582.432M	319.072M	591.648M	319.552M
6905MHz Straddle 6.525-6.875GHz	Pass	Inf	593.952M	318.88M	580.704M	318.4M
802.11be EHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5955MHz	Pass	Inf	21.56M	19.09M	21.065M	18.991M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
6195MHz	Pass	Inf	21.23M	18.966M	20.845M	19.04M
6415MHz	Pass	Inf	21.175M	18.991M	21.23M	19.065M
6435MHz	Pass	Inf	21.175M	19.015M	21.45M	19.04M
6475MHz	Pass	Inf	21.45M	19.04M	21.175M	19.015M
6515MHz	Pass	Inf	20.735M	18.991M	20.735M	19.015M
6535MHz	Pass	Inf	21.67M	19.09M	21.395M	18.966M
6695MHz	Pass	Inf	20.79M	18.991M	21.175M	19.215M
6875MHz Straddle 6.525-6.875GHz	Pass	Inf	21.6M	19.01M	20.46M	19.01M
6895MHz	Pass	Inf	21.67M	18.916M	21.01M	19.065M
6995MHz	Pass	Inf	21.23M	18.991M	21.175M	19.165M
7095MHz	Pass	Inf	21.285M	18.941M	20.955M	19.09M
802.11be EHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5965MHz	Pass	Inf	39.6M	37.531M	39.38M	37.531M
6205MHz	Pass	Inf	39.27M	37.781M	39.6M	37.581M
6405MHz	Pass	Inf	40.48M	37.631M	39.38M	37.731M
6445MHz	Pass	Inf	39.6M	37.681M	39.38M	37.781M
6485MHz	Pass	Inf	39.71M	37.831M	39.93M	37.731M
6525MHz Straddle 6.425-6.525GHz	Pass	Inf	39.12M	37.721M	39.6M	37.541M
6565MHz	Pass	Inf	39.27M	37.681M	39.27M	37.781M
6685MHz	Pass	Inf	39.82M	37.631M	39.6M	37.731M
6885MHz Straddle 6.525-6.875GHz	Pass	Inf	40.08M	37.721M	39.9M	37.781M
6925MHz	Pass	Inf	39.49M	37.881M	39.38M	37.831M
7005MHz	Pass	Inf	39.38M	37.581M	39.49M	37.581M
7085MHz	Pass	Inf	39.49M	37.531M	39.71M	37.631M
802.11be EHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5985MHz	Pass	Inf	82.06M	77.461M	80.52M	77.361M
6225MHz	Pass	Inf	79.86M	76.962M	80.74M	77.361M
6385MHz	Pass	Inf	80.3M	77.361M	80.96M	77.061M
6465MHz	Pass	Inf	80.08M	77.261M	81.84M	77.661M
6545MHz Straddle 6.425-6.525GHz	Pass	Inf	80.52M	77.241M	80.16M	76.882M
6625MHz	Pass	Inf	80.3M	77.261M	81.4M	77.261M
6705MHz	Pass	Inf	80.52M	77.161M	80.74M	77.261M
6785MHz	Pass	Inf	80.3M	77.261M	81.84M	77.461M
6865MHz Straddle 6.525-6.875GHz	Pass	Inf	80.76M	77.121M	81.48M	77.121M
6945MHz	Pass	Inf	80.74M	77.261M	80.52M	77.261M
7025MHz	Pass	Inf	80.3M	77.061M	80.74M	76.962M
802.11be EHT160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6025MHz	Pass	Inf	166.32M	156.522M	223.08M	156.522M
6185MHz	Pass	Inf	227.04M	157.321M	293.48M	158.321M
6345MHz	Pass	Inf	190.52M	157.121M	242M	156.922M
6505MHz Straddle 6.425-6.525GHz	Pass	Inf	162.48M	157.121M	178.8M	157.121M
6665MHz	Pass	Inf	163.24M	156.922M	181.72M	157.121M
6825MHz Straddle 6.525-6.875GHz	Pass	Inf	217.92M	155.922M	209.52M	157.601M
6985MHz	Pass	Inf	163.24M	156.722M	163.24M	156.522M
802.11be EHT320_Nss2,(MCS0)_2TX	-	-	-	-	-	-
6105MHz	Pass	Inf	446.336M	316.848M	493.152M	316.608M
6265MHz	Pass	Inf	608.256M	318.768M	631.84M	319.328M
6425MHz Straddle 5.925-6.425GHz	Pass	Inf	536.544M	318.208M	647.616M	319.744M
6585MHz Straddle 6.425-6.525GHz	Pass	Inf	599.712M	318.688M	607.584M	319.456M
6745MHz Straddle 6.525-6.875GHz	Pass	Inf	588.384M	319.456M	605.472M	319.936M
6905MHz Straddle 6.525-6.875GHz	Pass	Inf	581.856M	319.072M	596.832M	318.112M

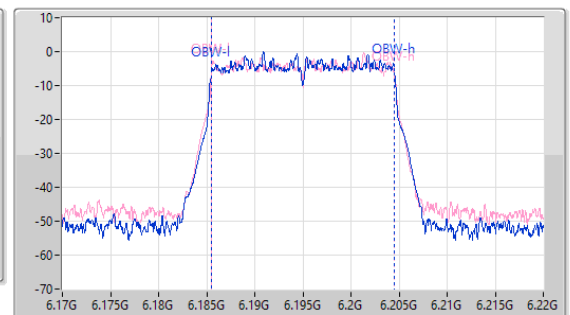
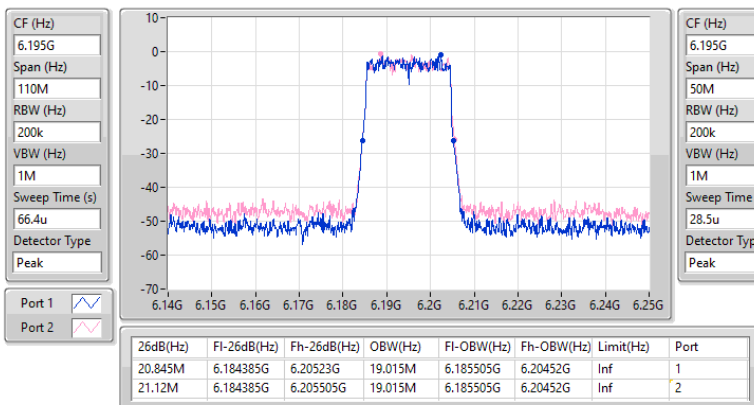
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5955MHz

03/02/2024

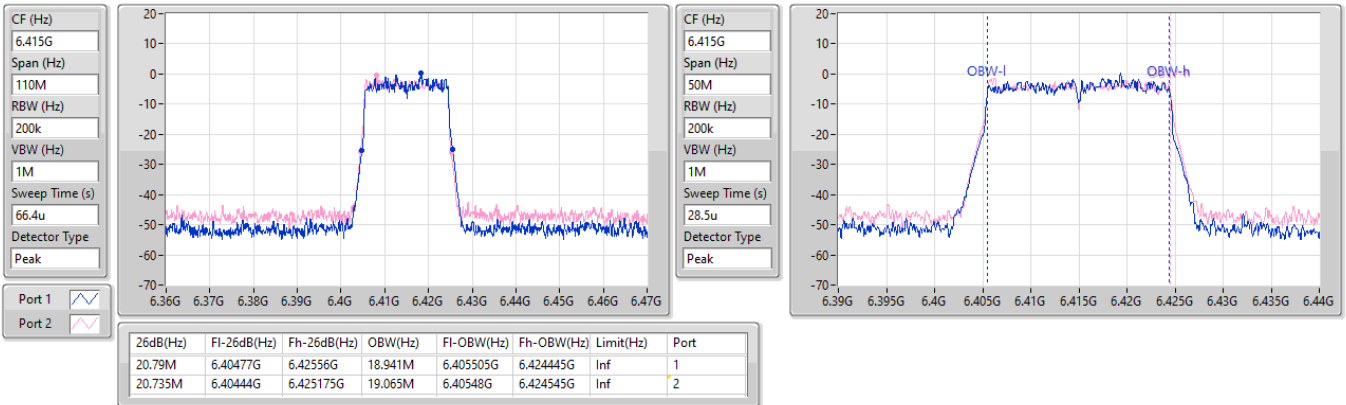

5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6195MHz

03/02/2024

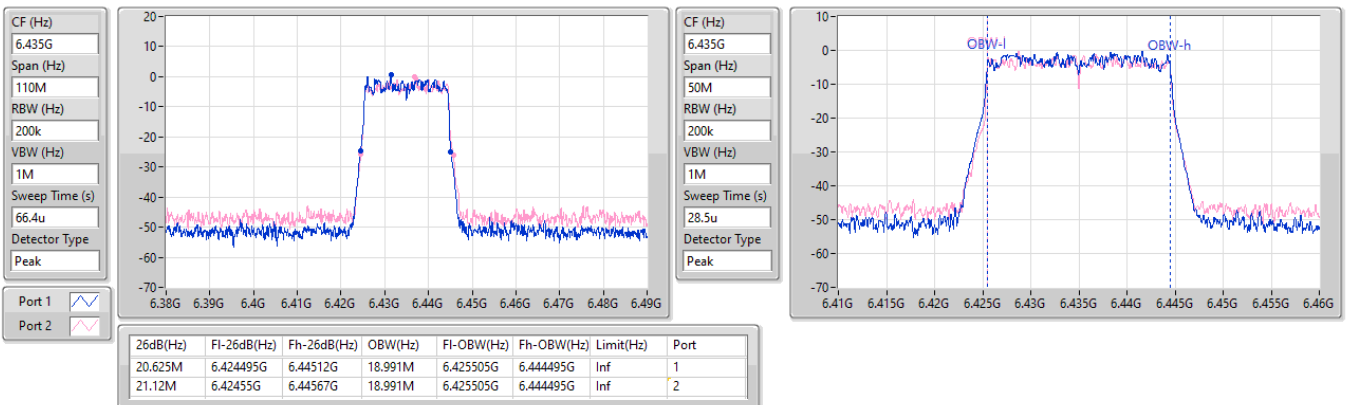


5.925-6.425GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6415MHz

03/02/2024


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6435MHz

03/02/2024

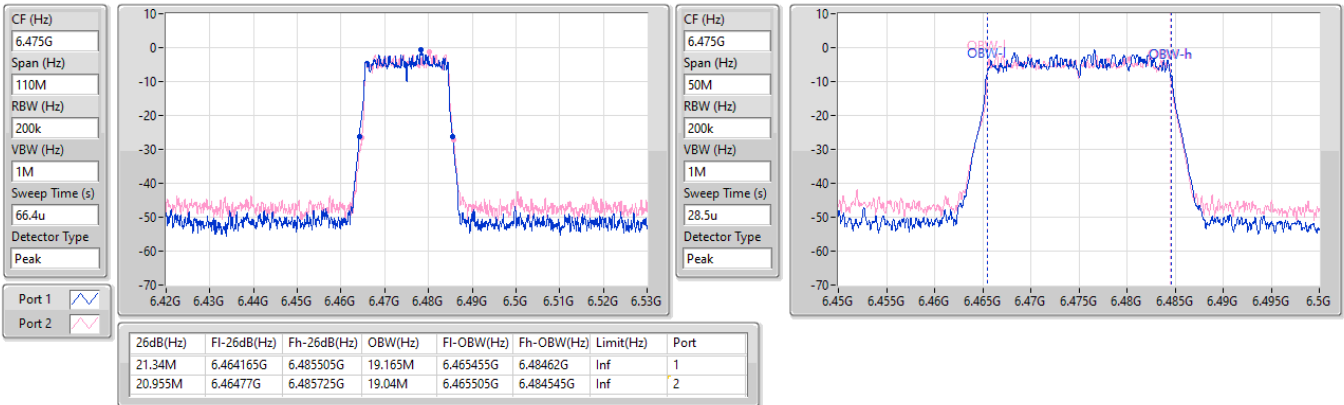


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6475MHz

03/02/2024

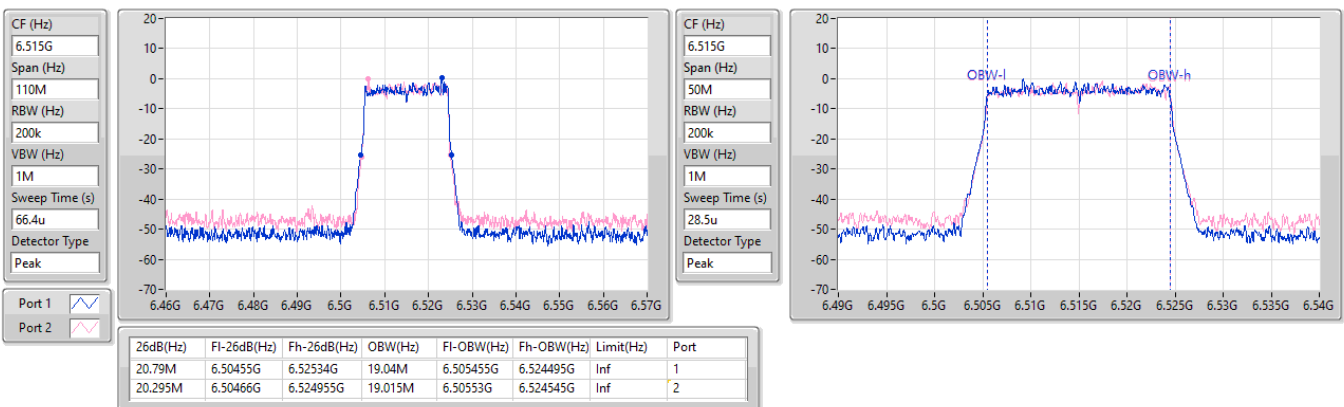


6.425-6.525GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6515MHz

03/02/2024

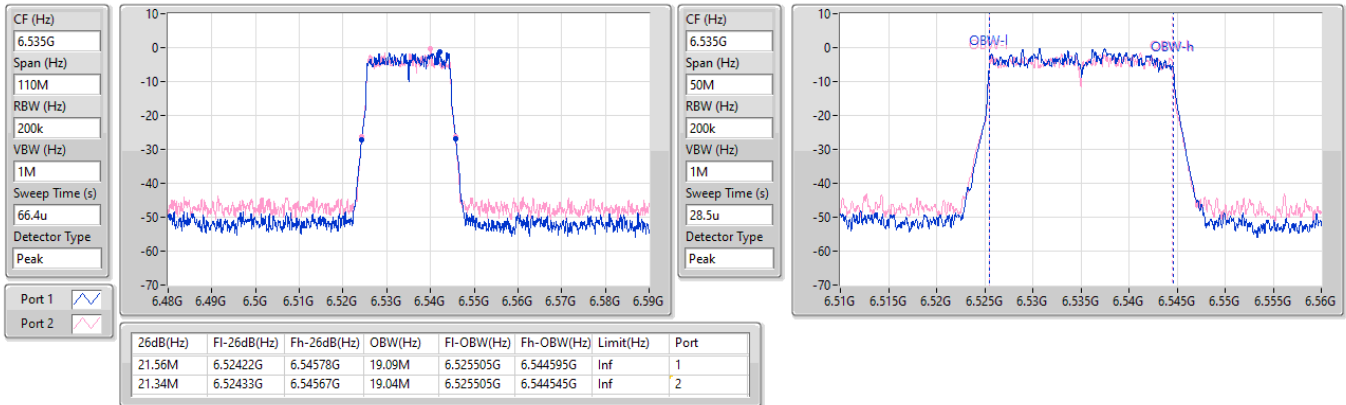


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6535MHz

03/02/2024

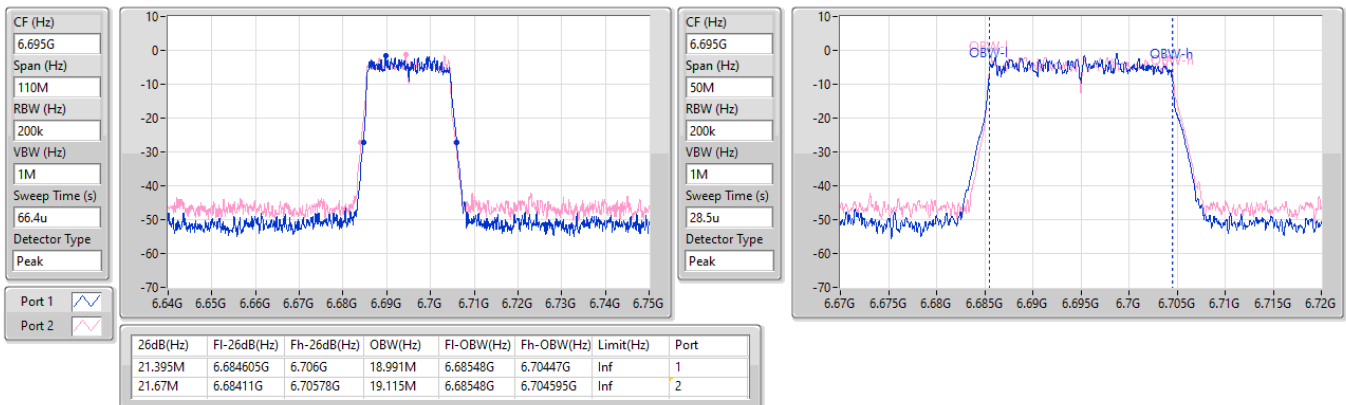


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

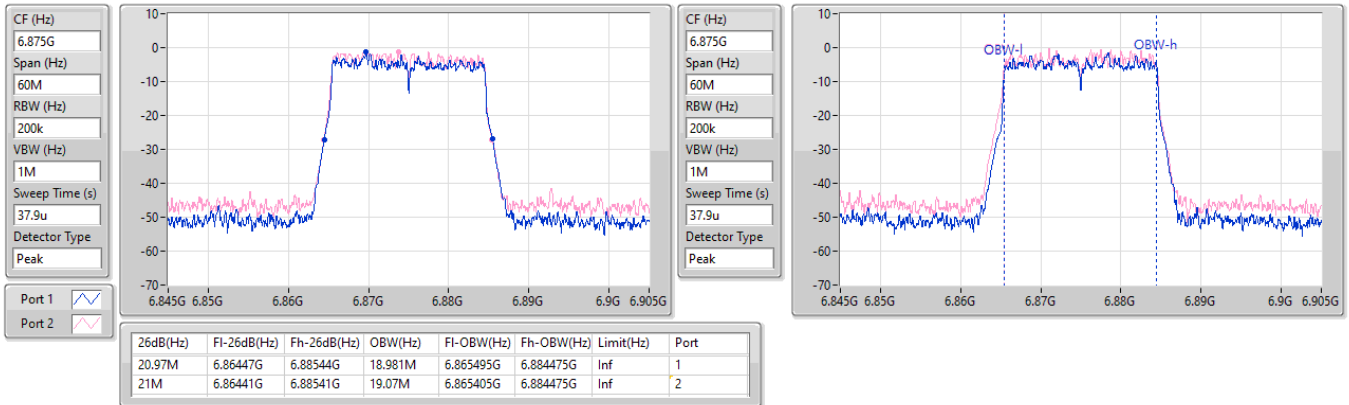
6695MHz

03/02/2024

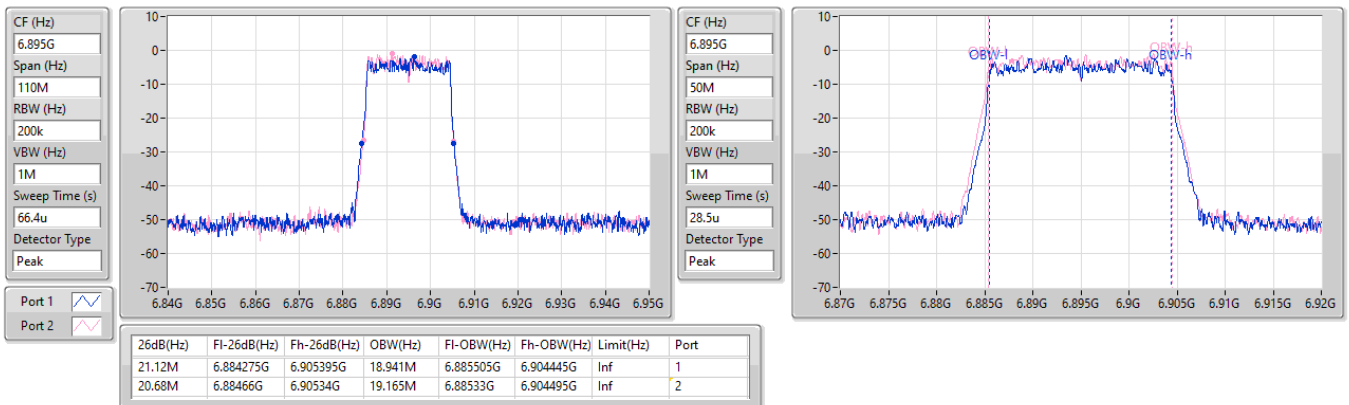


6.525-6.875GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6875MHz Straddle 6.525-6.875GHz

03/02/2024


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
6895MHz

03/02/2024

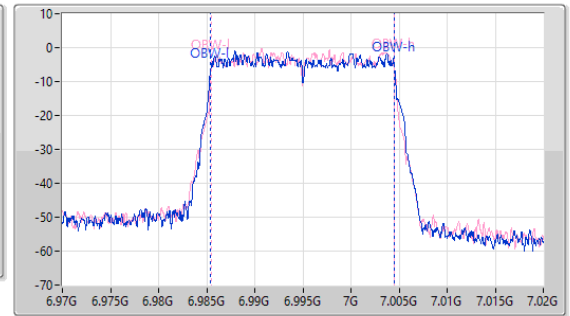
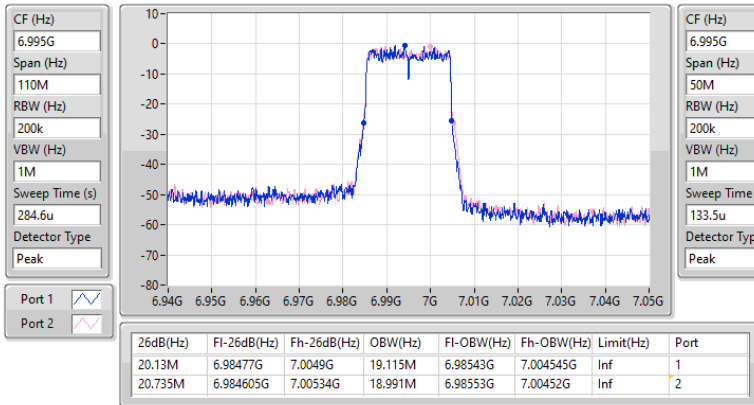


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

6995MHz

03/02/2024

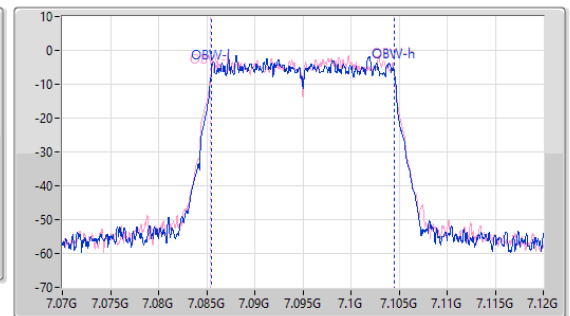
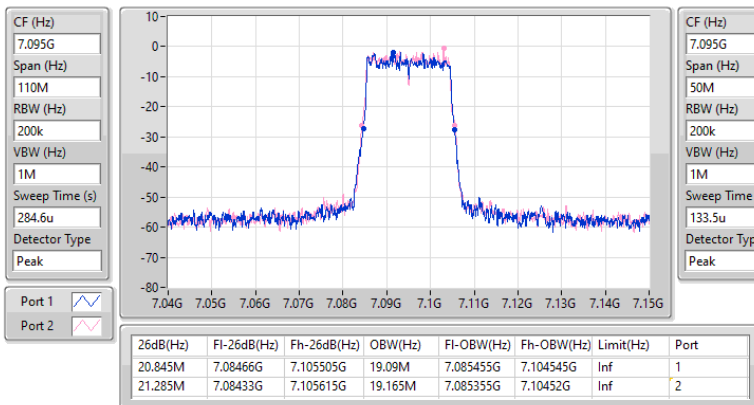


6.875-7.125GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

7095MHz

03/02/2024

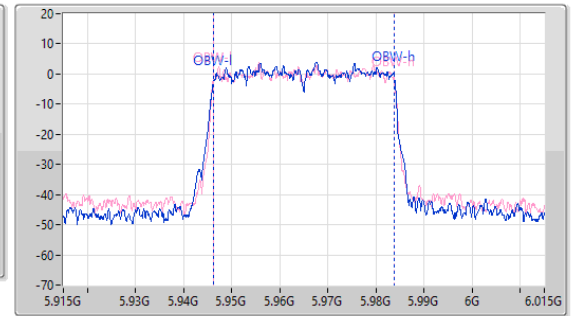
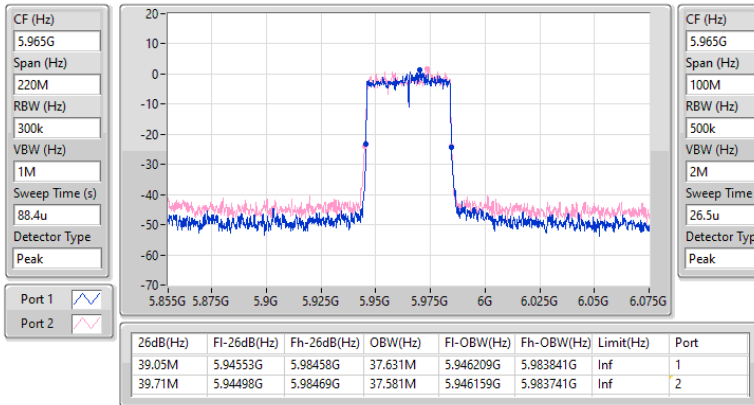


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5965MHz

03/02/2024

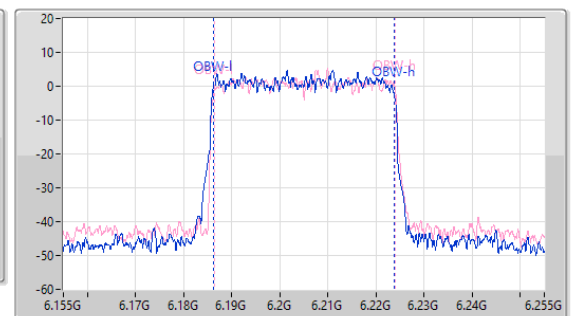
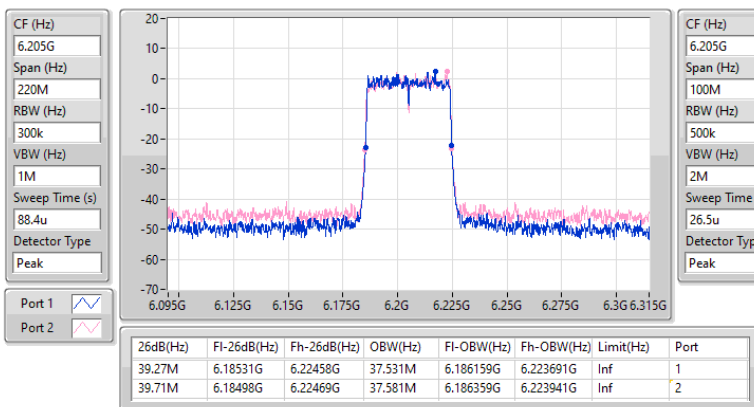


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

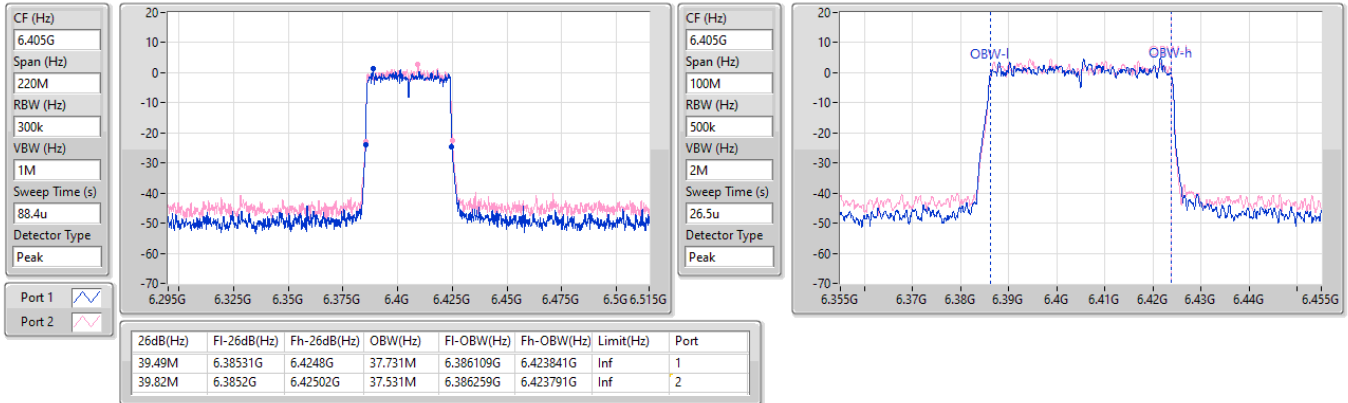
6205MHz

03/02/2024

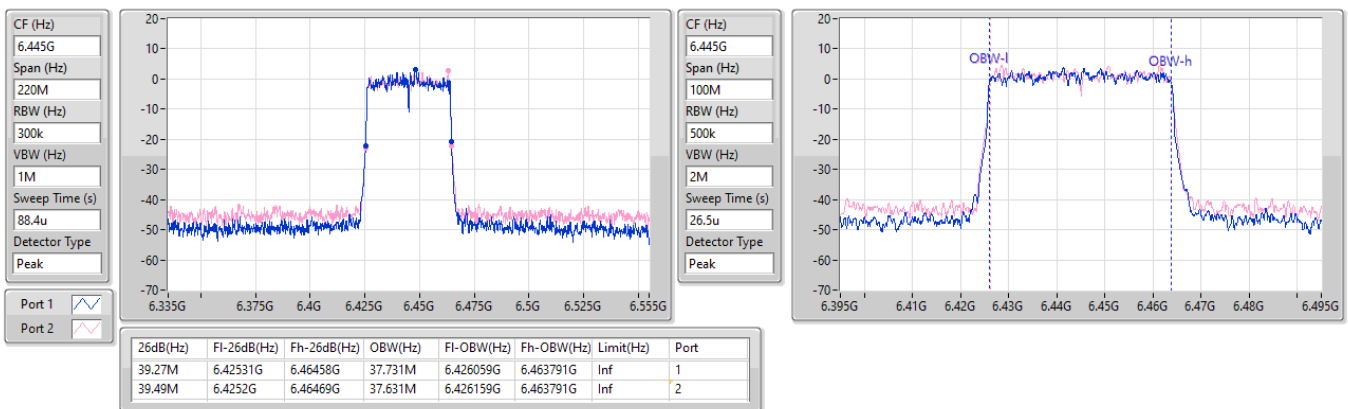


5.925-6.425GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
6405MHz

03/02/2024


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
6445MHz

03/02/2024

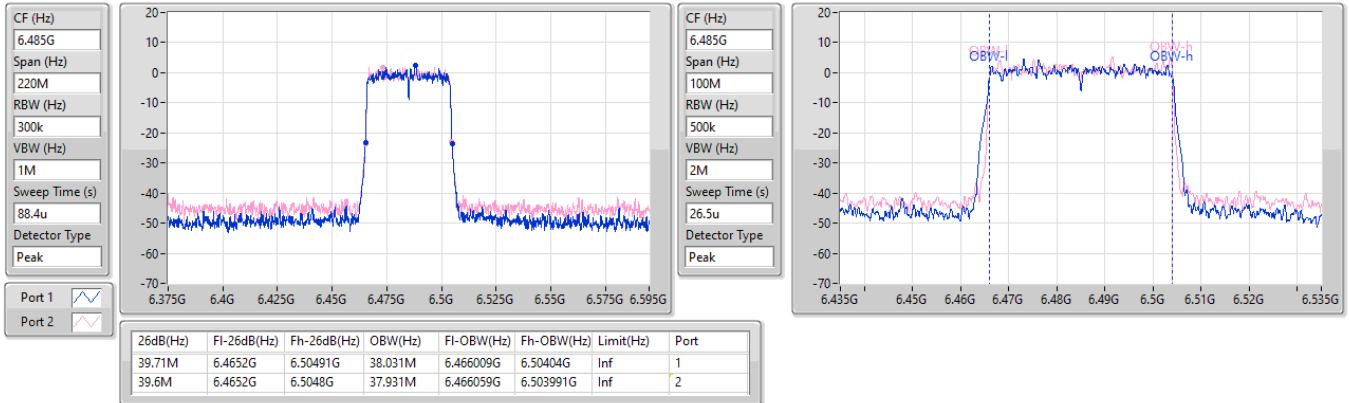


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6485MHz

03/02/2024

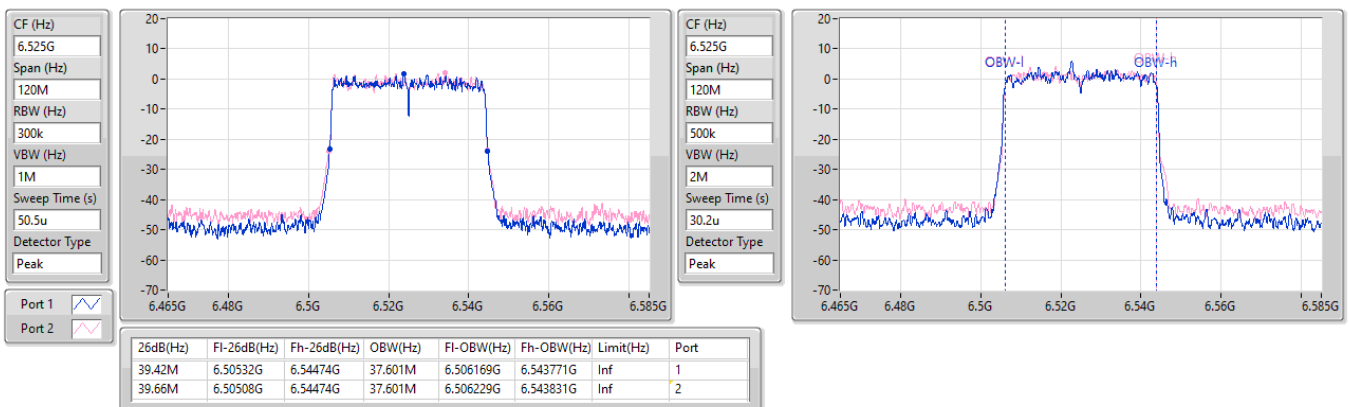


6.425-6.525GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6525MHz Straddle 6.425-6.525GHz

03/02/2024

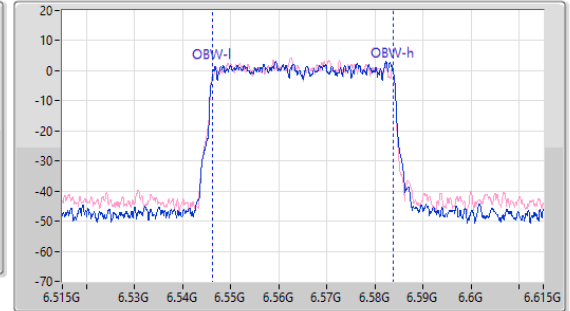
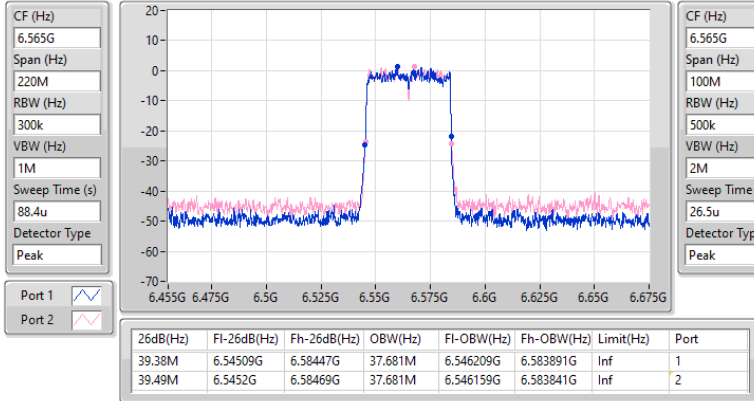


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6565MHz

03/02/2024

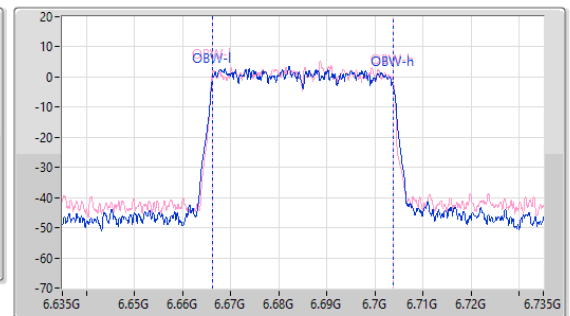
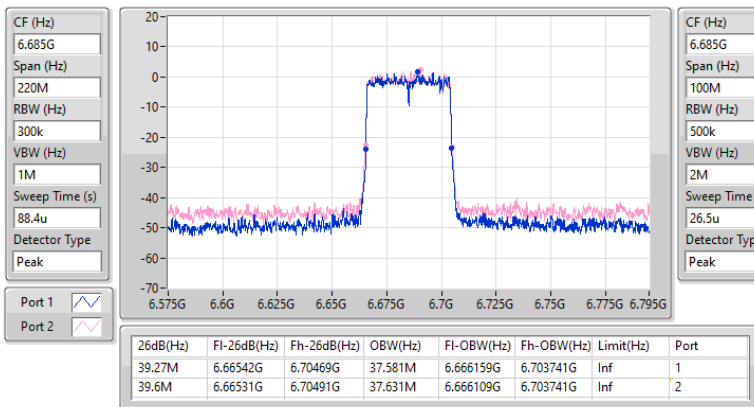


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6685MHz

03/02/2024

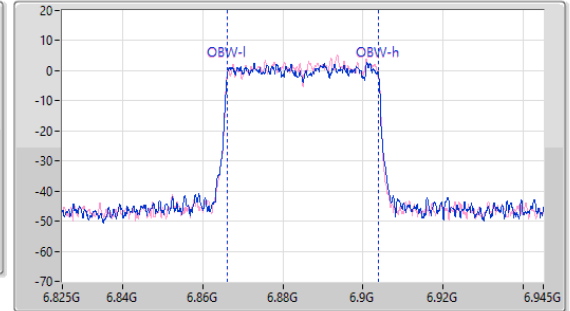
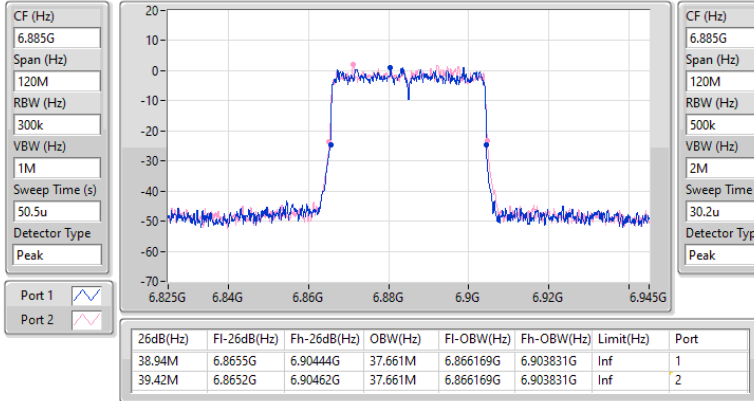


6.525-6.875GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

6885MHz Straddle 6.525-6.875GHz

03/02/2024

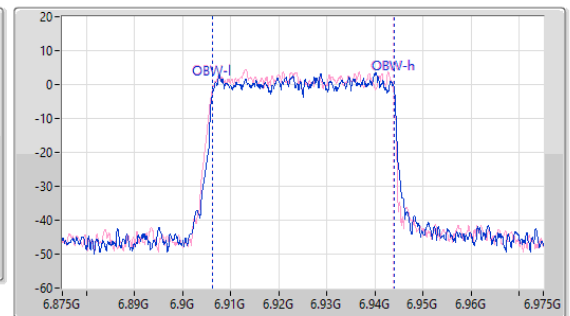
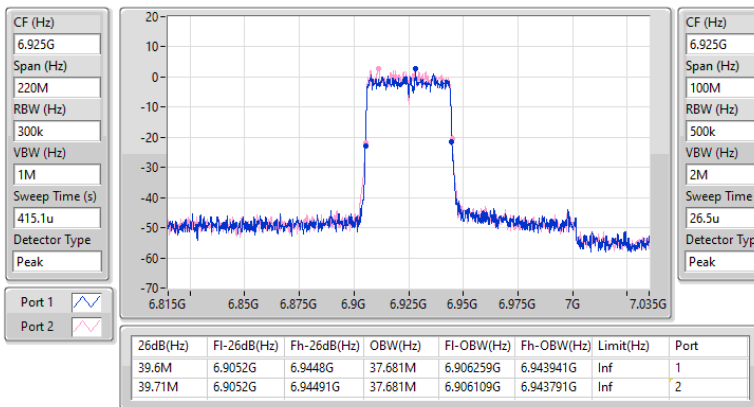


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

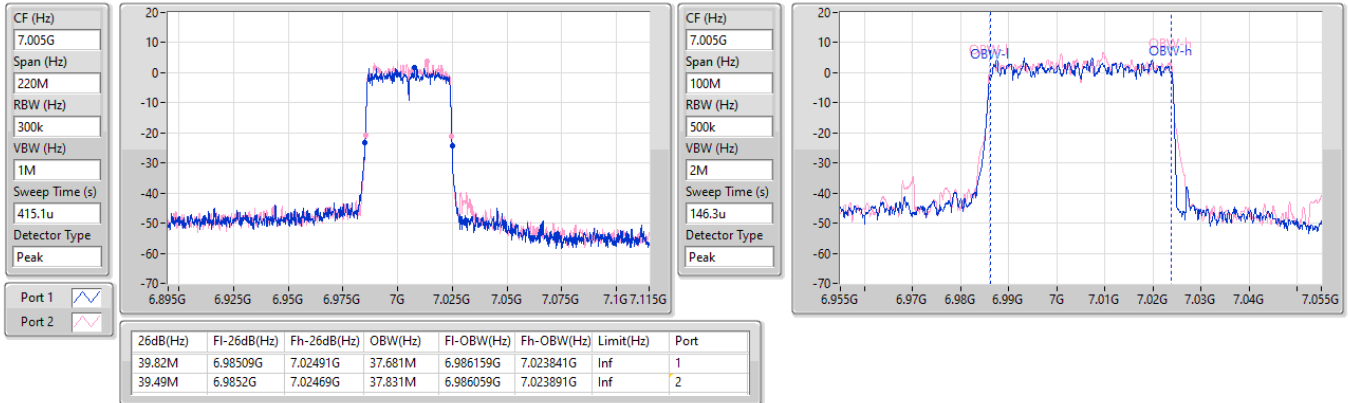
6925MHz

03/02/2024

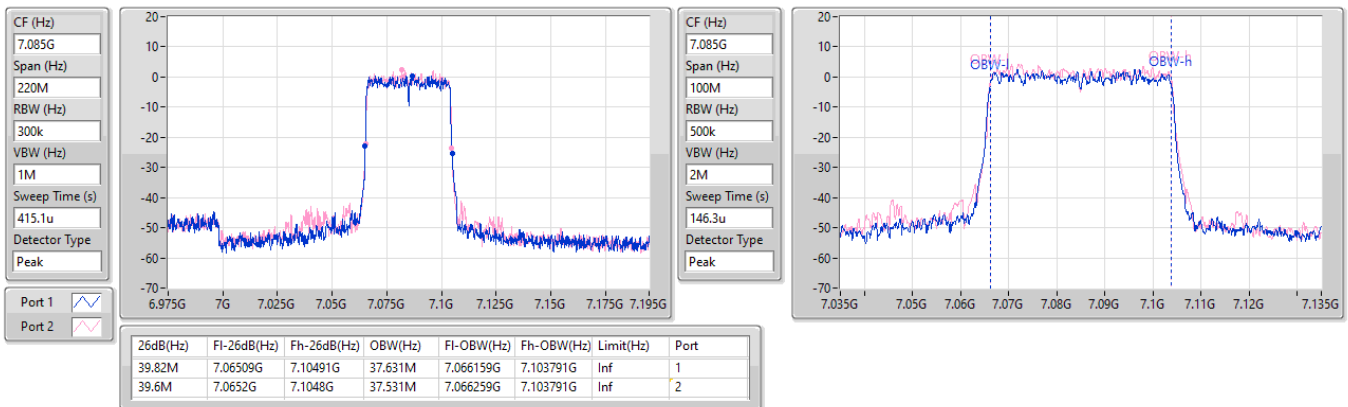


6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
7005MHz

03/02/2024

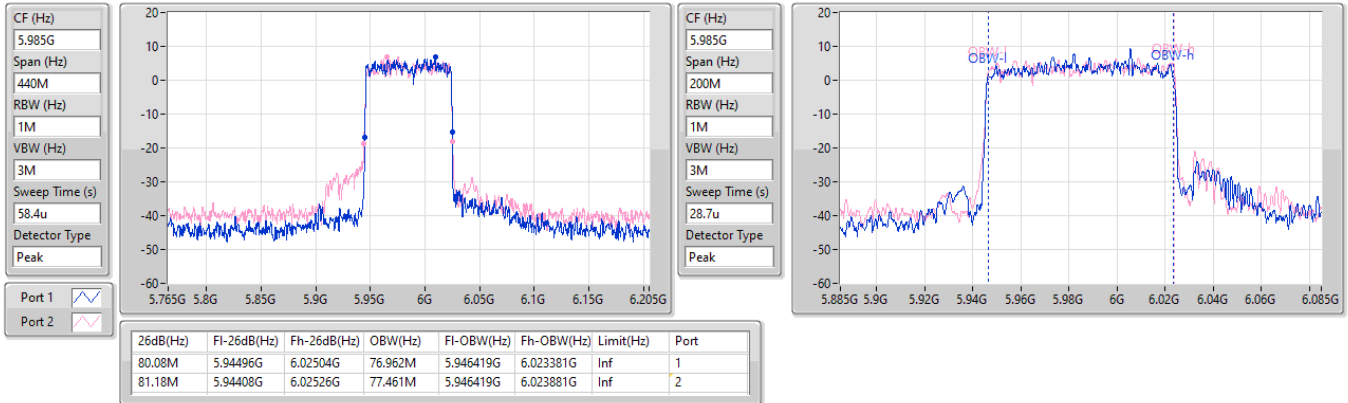

6.875-7.125GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
7085MHz

03/02/2024

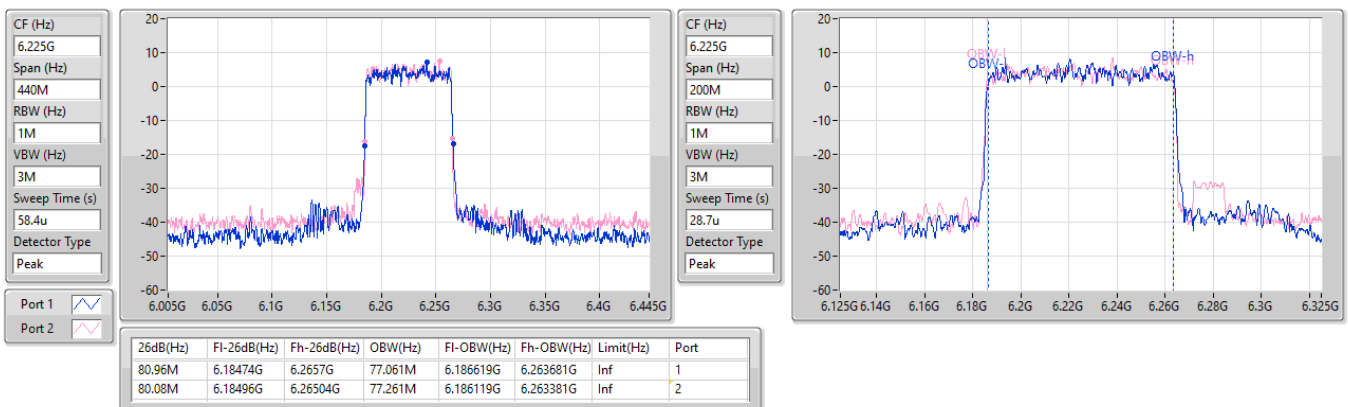


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
5985MHz

03/02/2024


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
6225MHz

03/02/2024

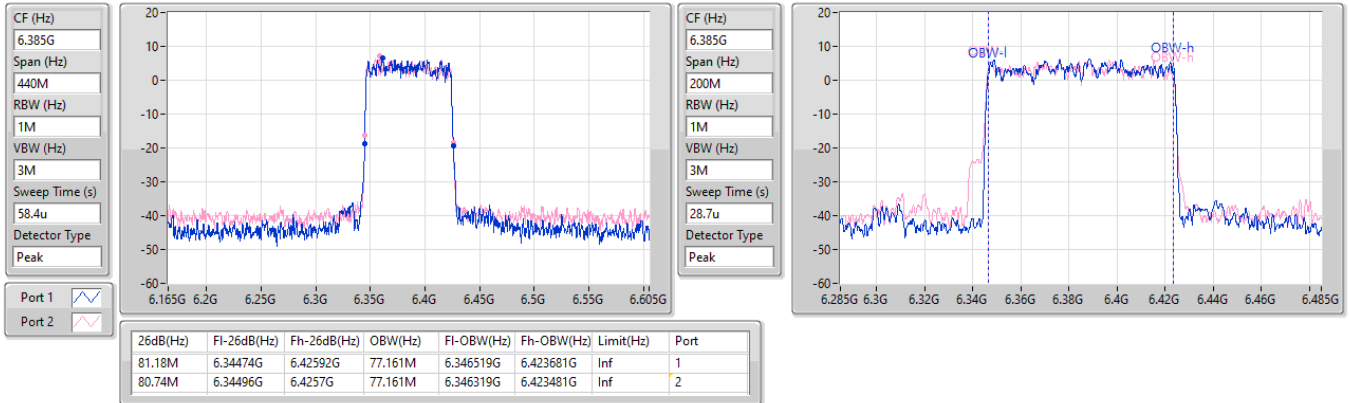


5.925-6.425GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6385MHz

03/02/2024

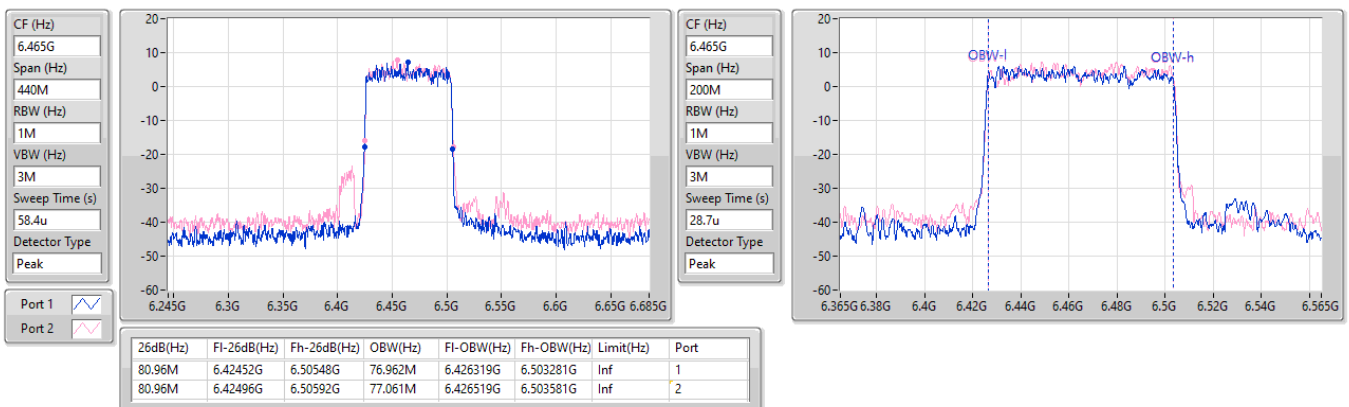


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

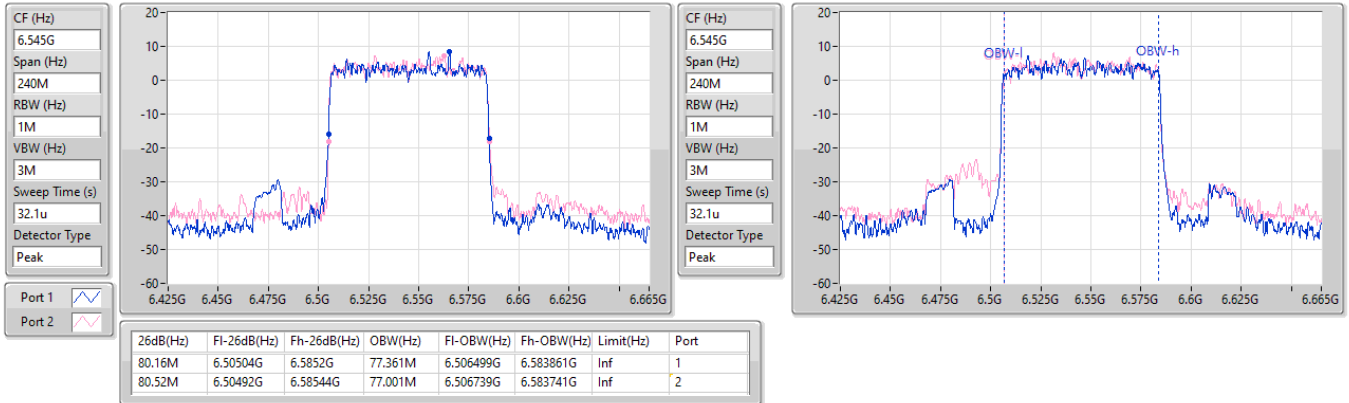
6465MHz

03/02/2024

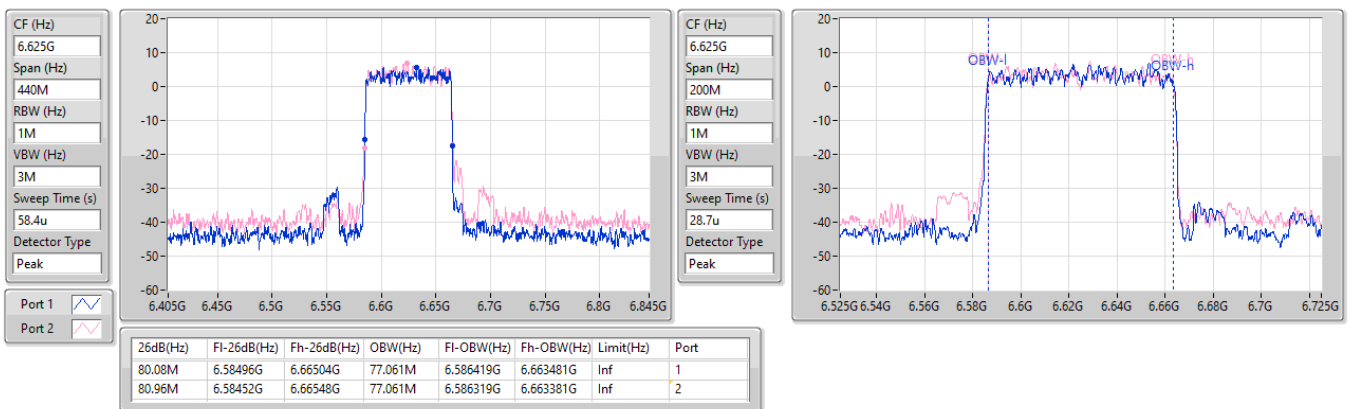


6.425-6.525GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
6545MHz Straddle 6.425-6.525GHz

03/02/2024


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
6625MHz

03/02/2024

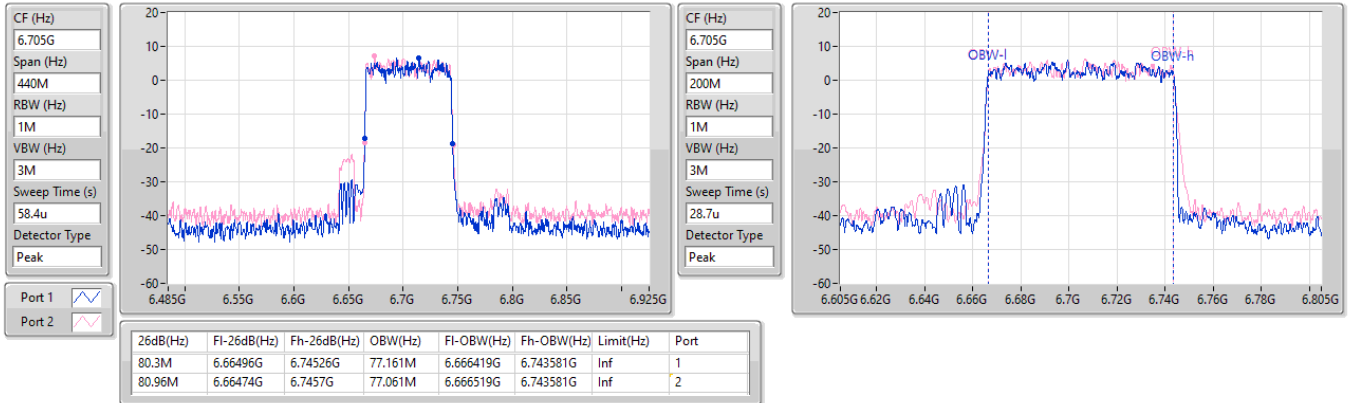


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

6705MHz

03/02/2024

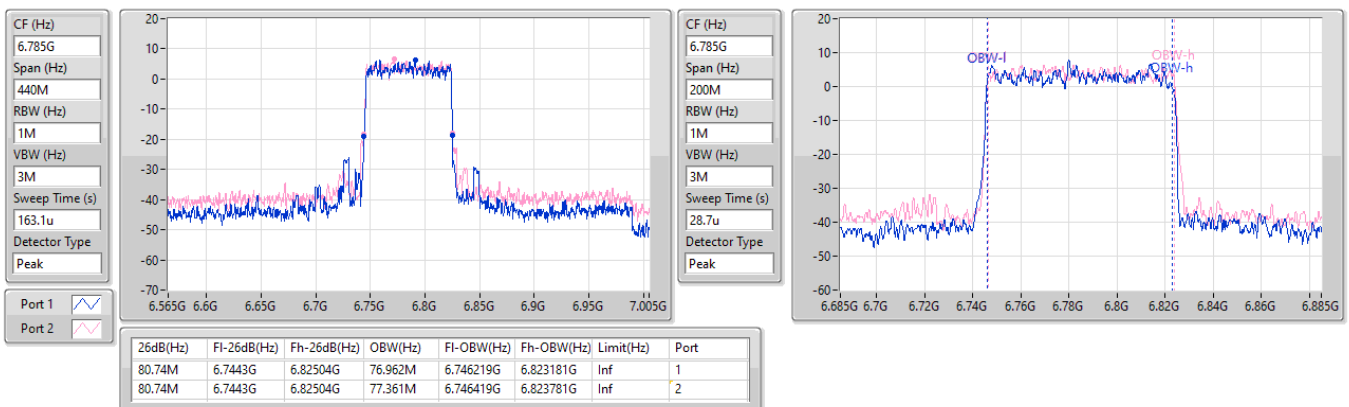


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

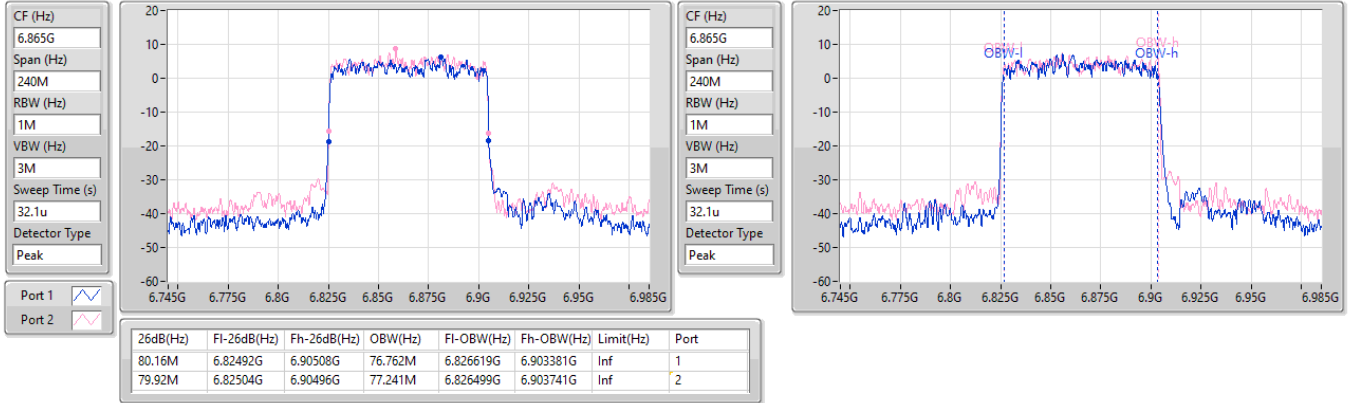
6785MHz

03/02/2024

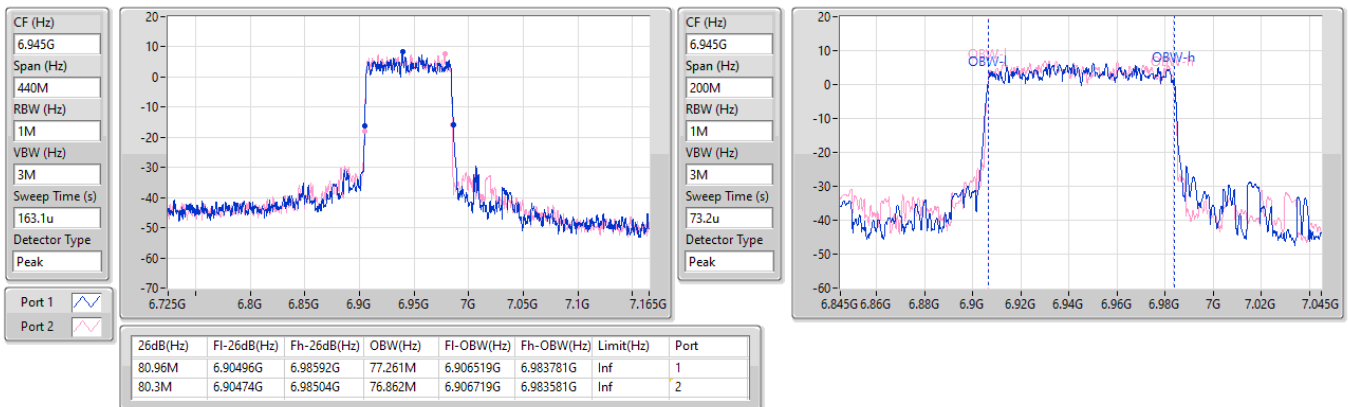


6.525-6.875GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
6865MHz Straddle 6.525-6.875GHz

03/02/2024

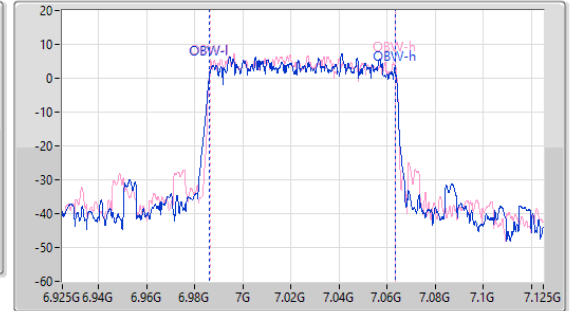
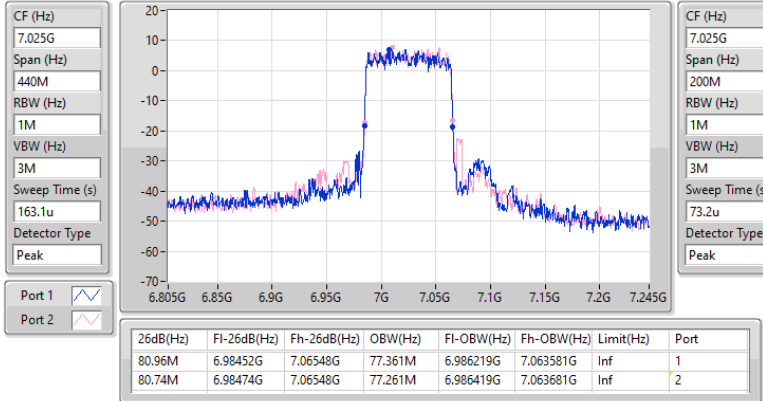

6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
6945MHz

03/02/2024

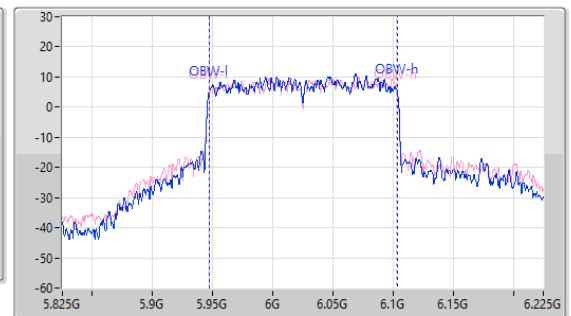
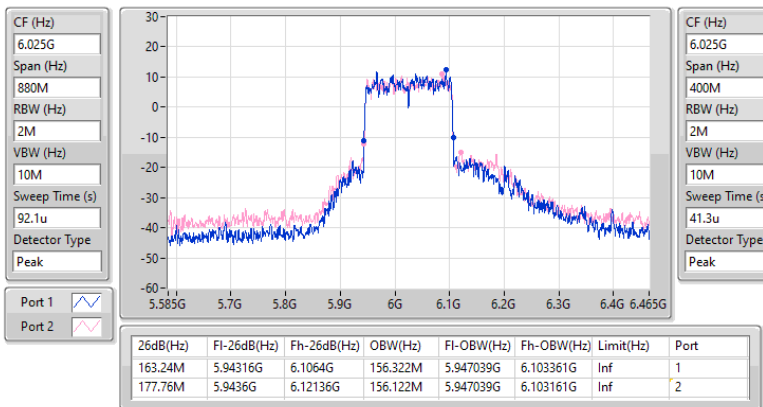


6.875-7.125GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
7025MHz

03/02/2024

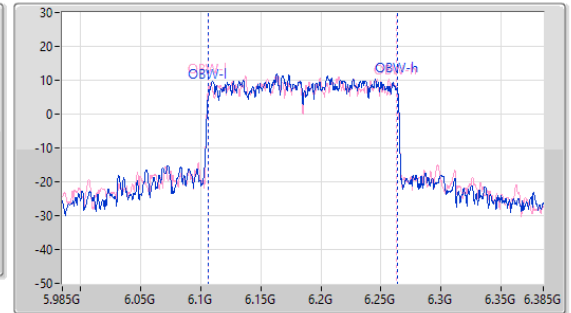
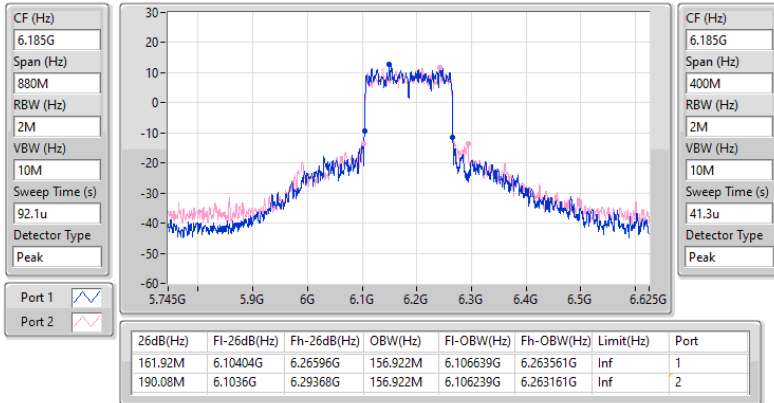

5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6025MHz

03/02/2024

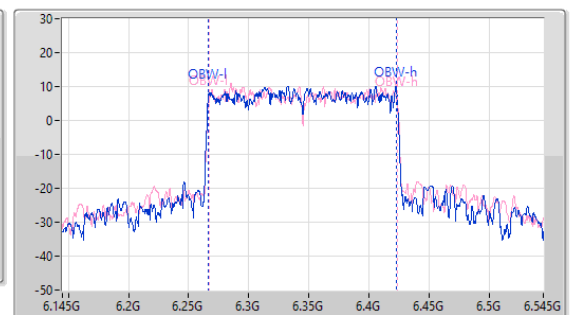
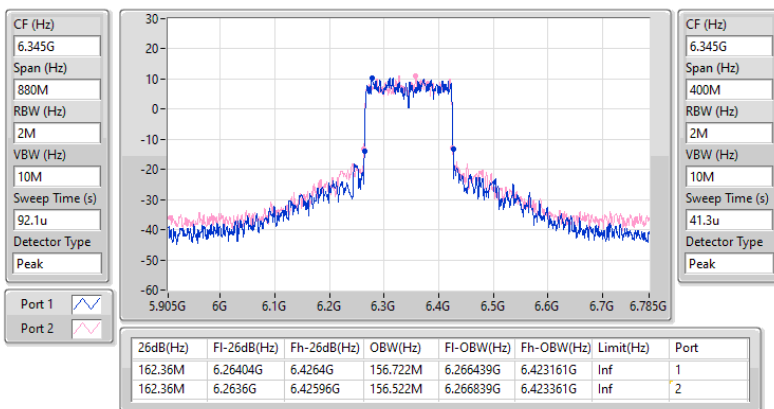


5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6185MHz

03/02/2024

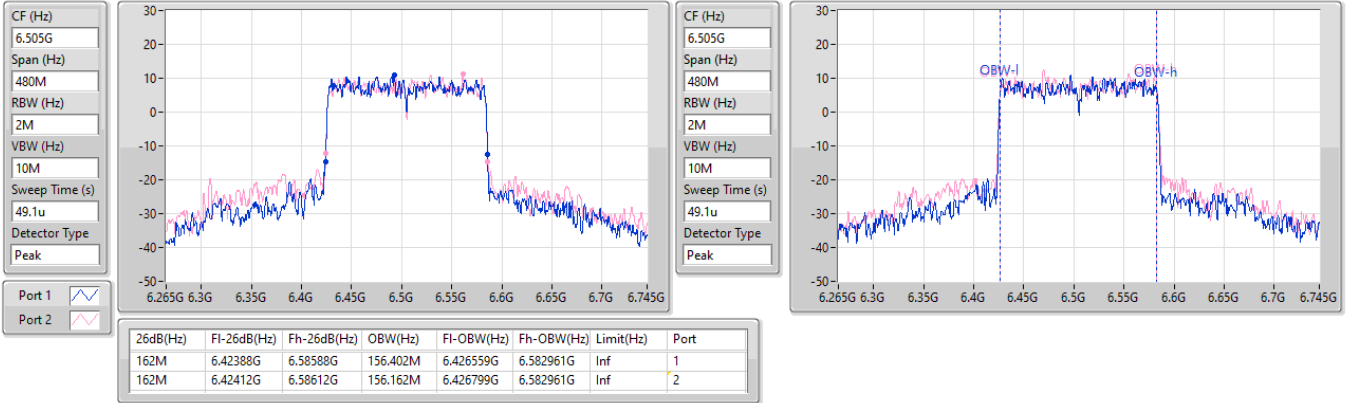

5.925-6.425GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6345MHz

03/02/2024

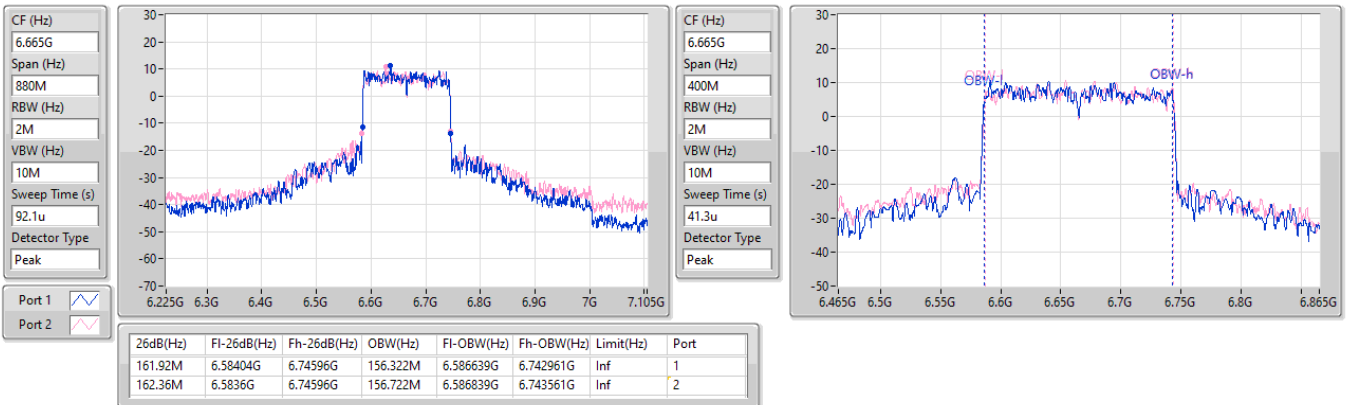


6.425-6.525GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6505MHz Straddle 6.425-6.525GHz

03/02/2024

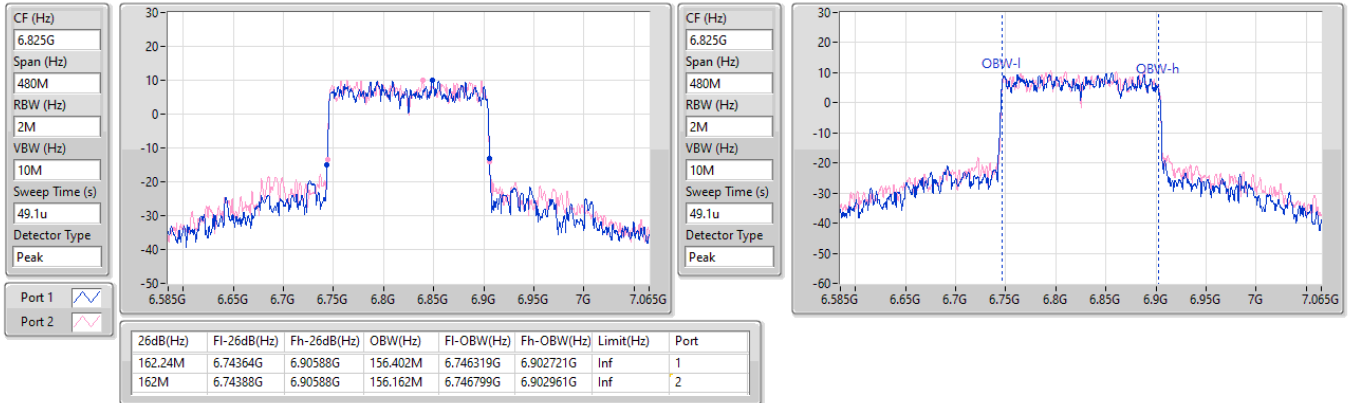

6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6665MHz

03/02/2024

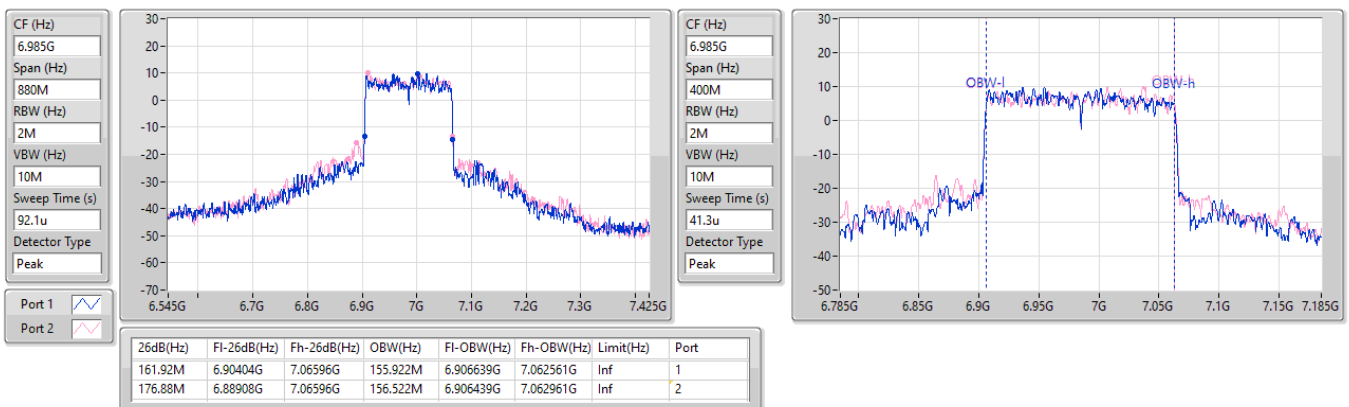


6.525-6.875GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6825MHz Straddle 6.525-6.875GHz

03/02/2024

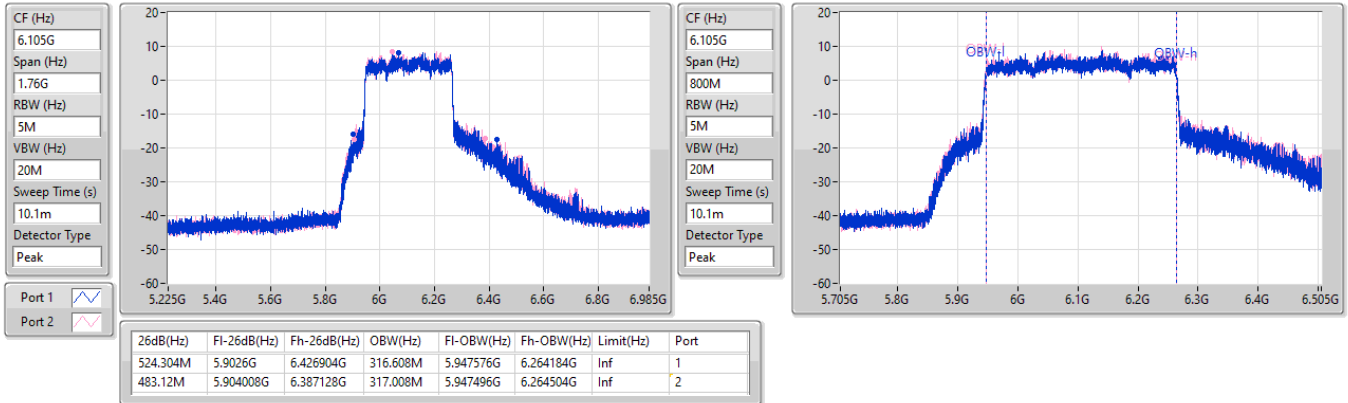

6.875-7.125GHz_802.11be EHT160_Nss1,(MCS0)_2TX
EBW
6985MHz

03/02/2024

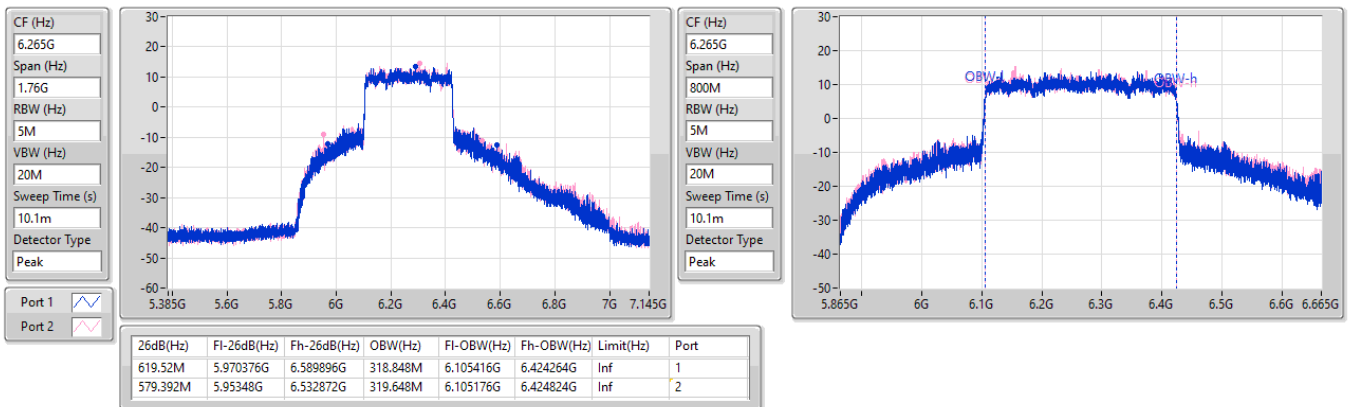


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX
EBW
6105MHz

03/02/2024

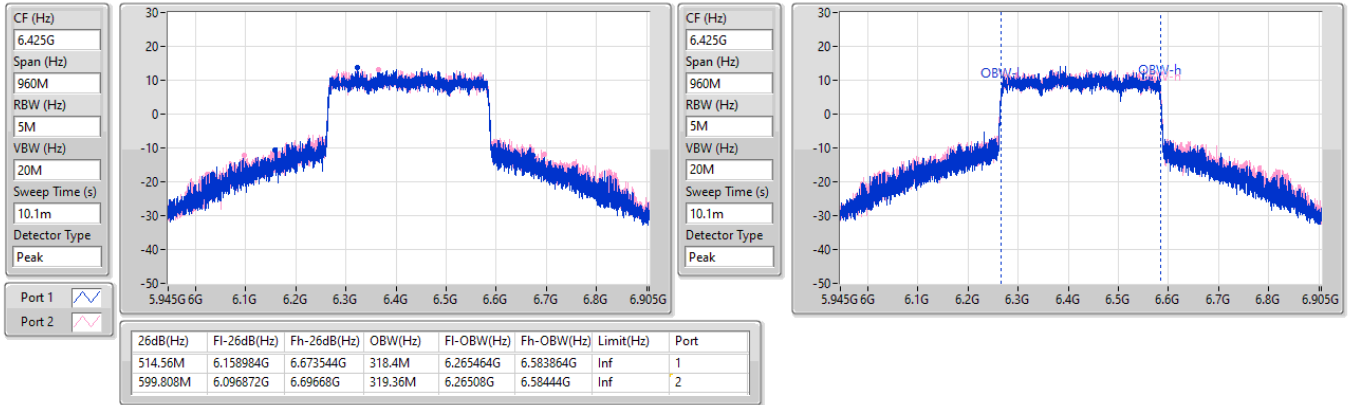

5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX
EBW
6265MHz

03/02/2024

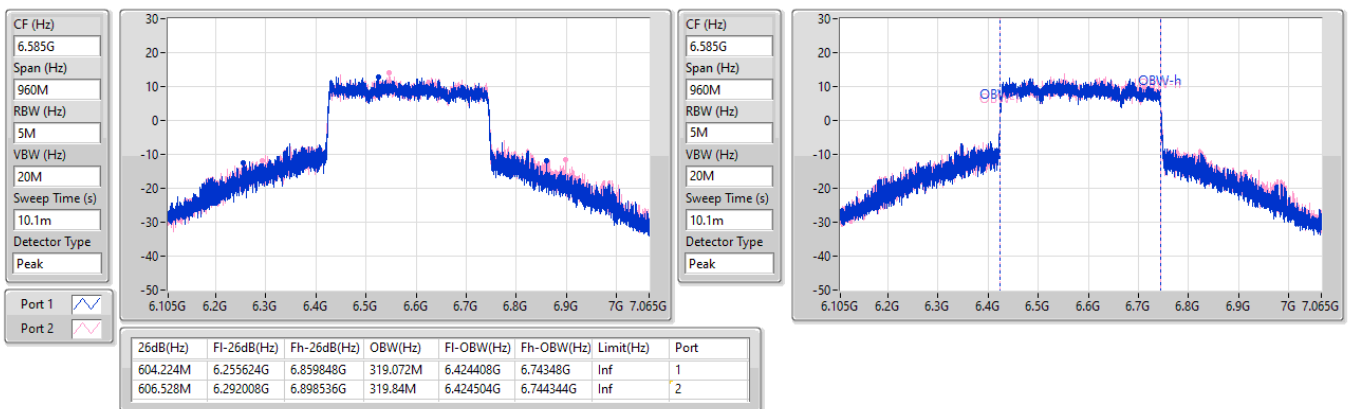


5.925-6.425GHz_802.11be EHT320_Nss1,(MCS0)_2TX
EBW
6425MHz Straddle 5.925-6.425GHz

03/02/2024

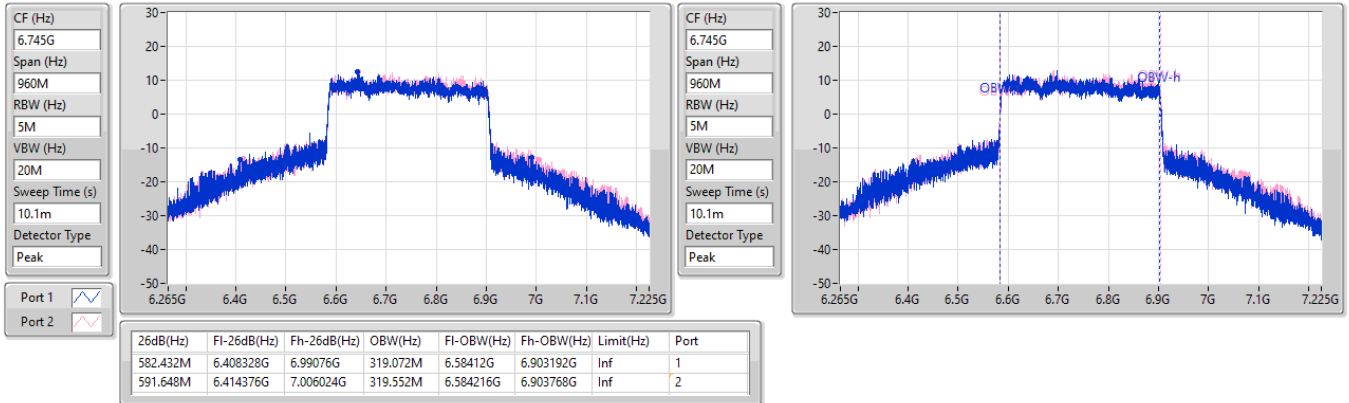

6.425-6.525GHz_802.11be EHT320_Nss1,(MCS0)_2TX
EBW
6585MHz Straddle 6.425-6.525GHz

03/02/2024

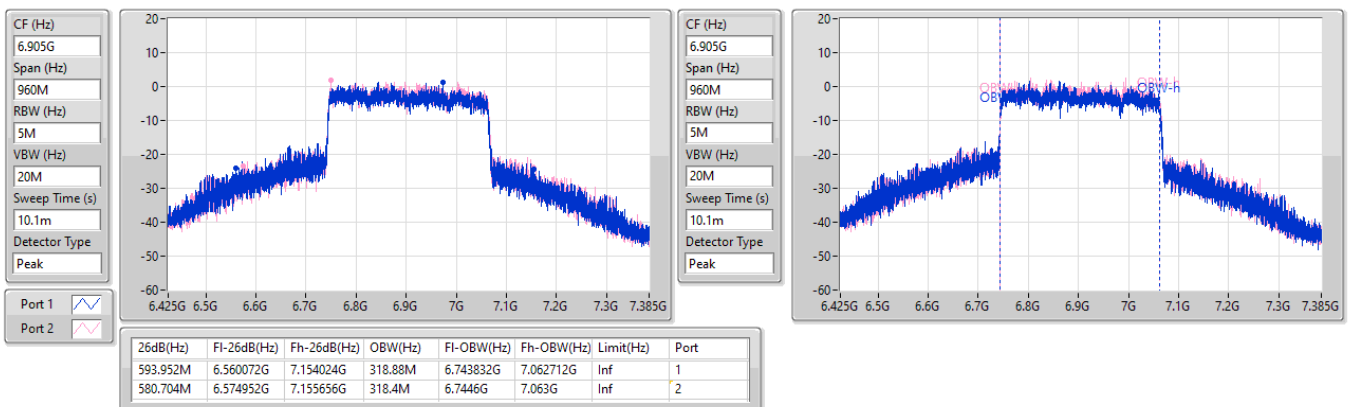


6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_2TX
EBW
6745MHz Straddle 6.525-6.875GHz

03/02/2024

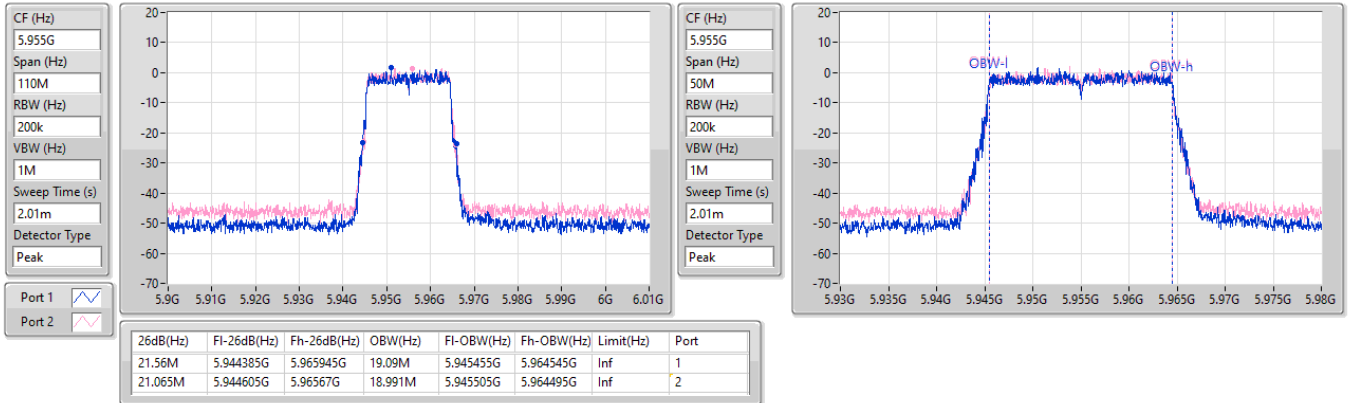

6.525-6.875GHz_802.11be EHT320_Nss1,(MCS0)_2TX
EBW
6905MHz Straddle 6.525-6.875GHz

03/02/2024

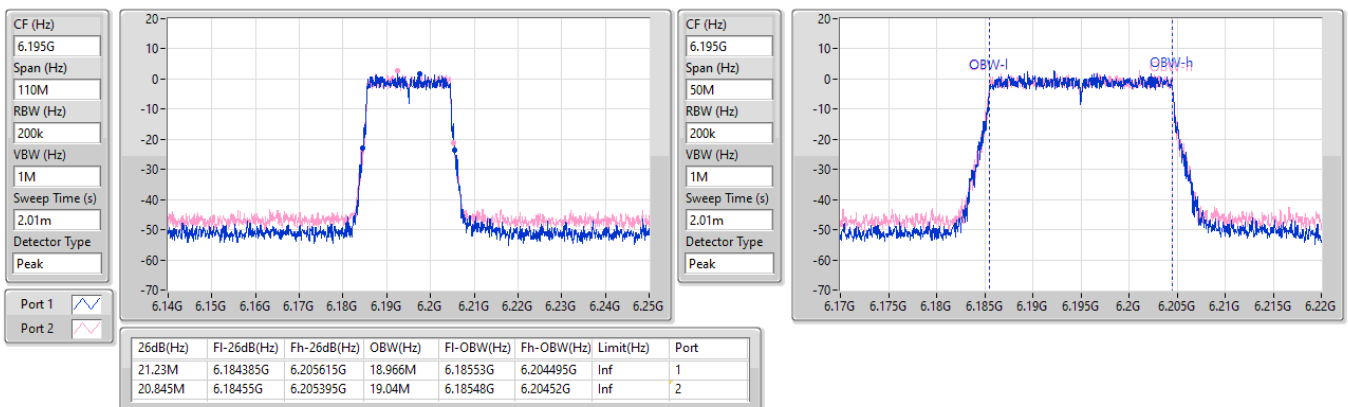


5.925-6.425GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
5955MHz

03/02/2024

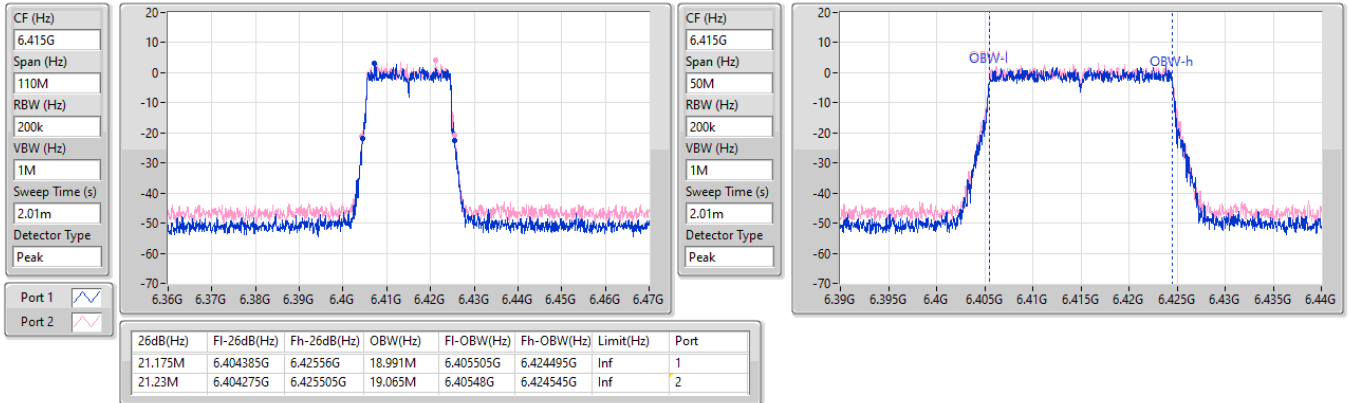

5.925-6.425GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
6195MHz

03/02/2024

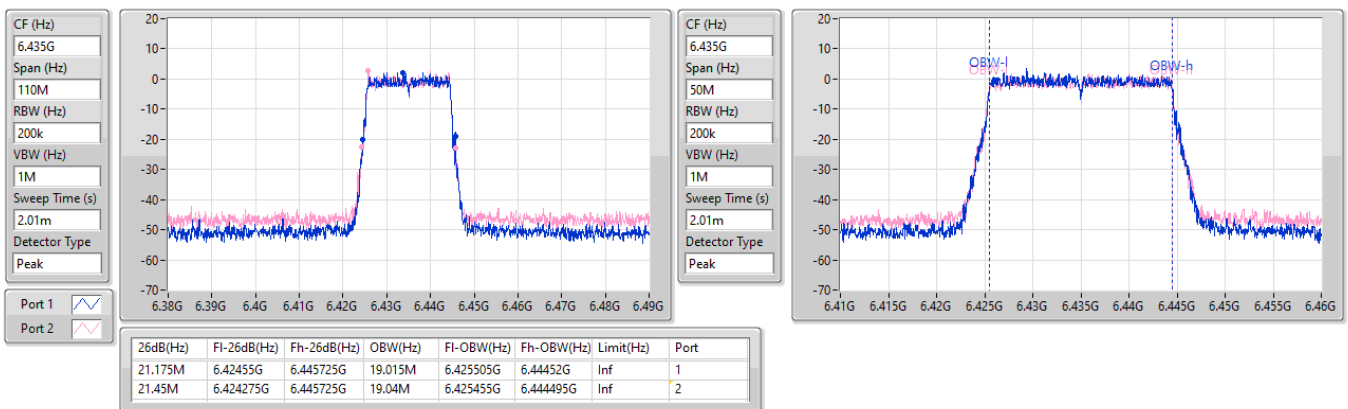


5.925-6.425GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
6415MHz

03/02/2024

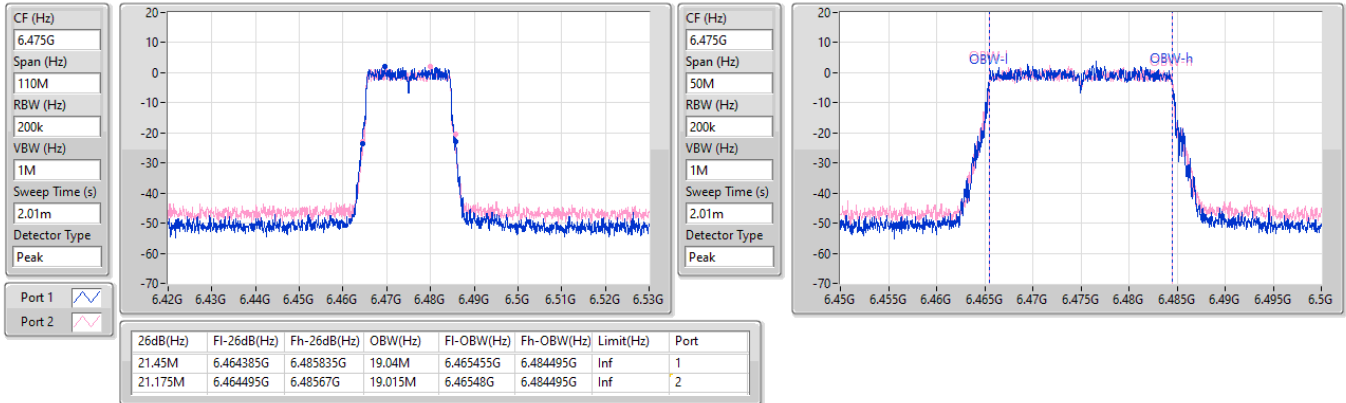

6.425-6.525GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
6435MHz

03/02/2024

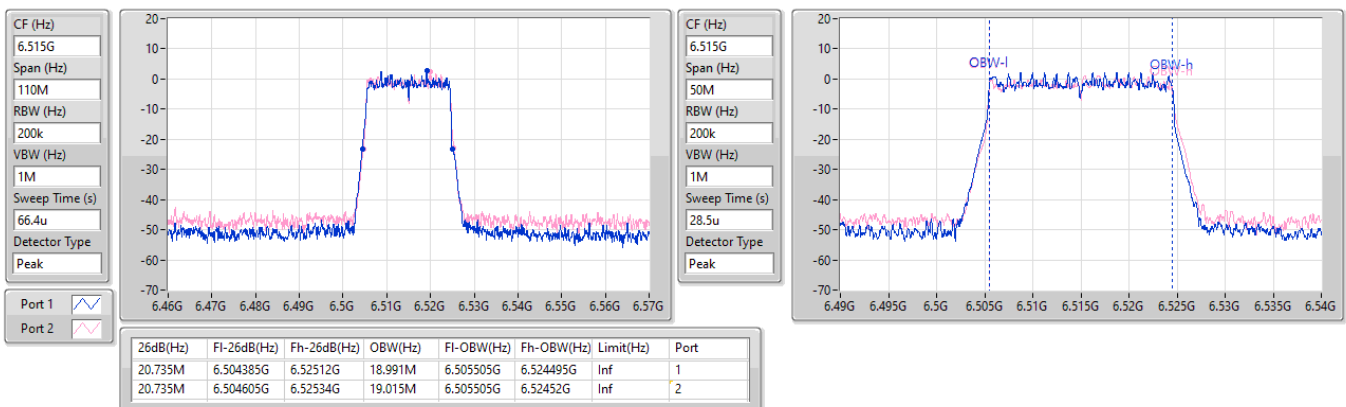


6.425-6.525GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
6475MHz

03/02/2024

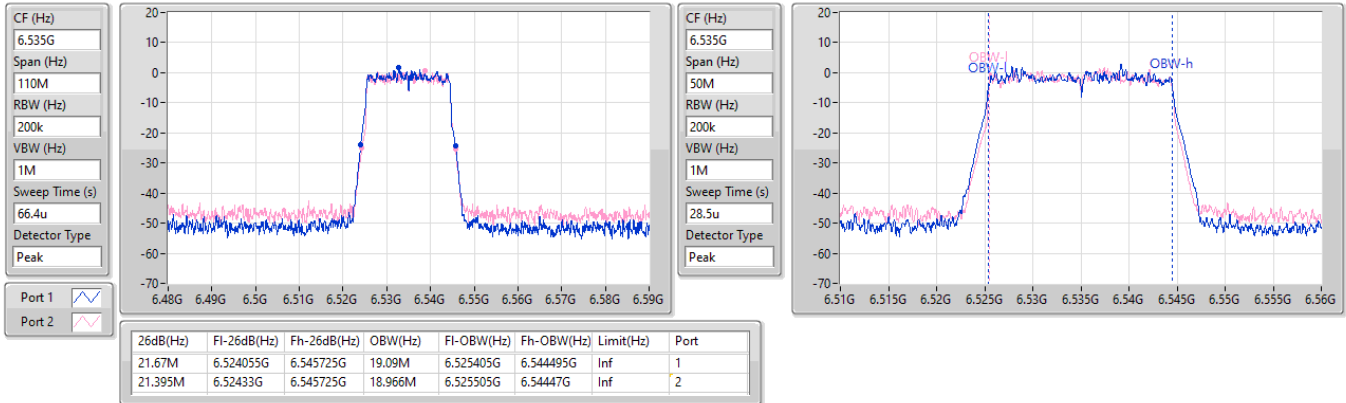

6.425-6.525GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
6515MHz

03/02/2024

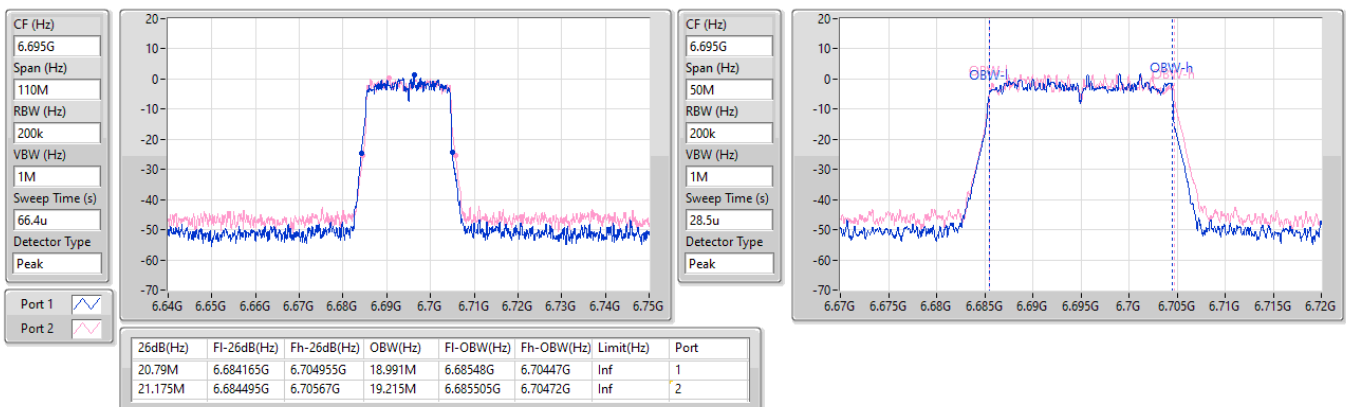


6.525-6.875GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
6535MHz

03/02/2024

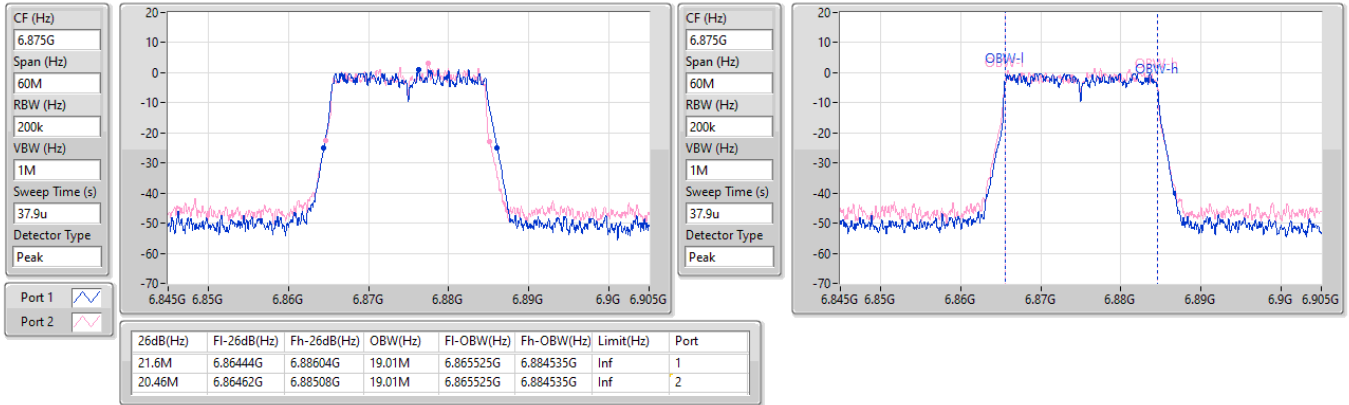

6.525-6.875GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
6695MHz

03/02/2024

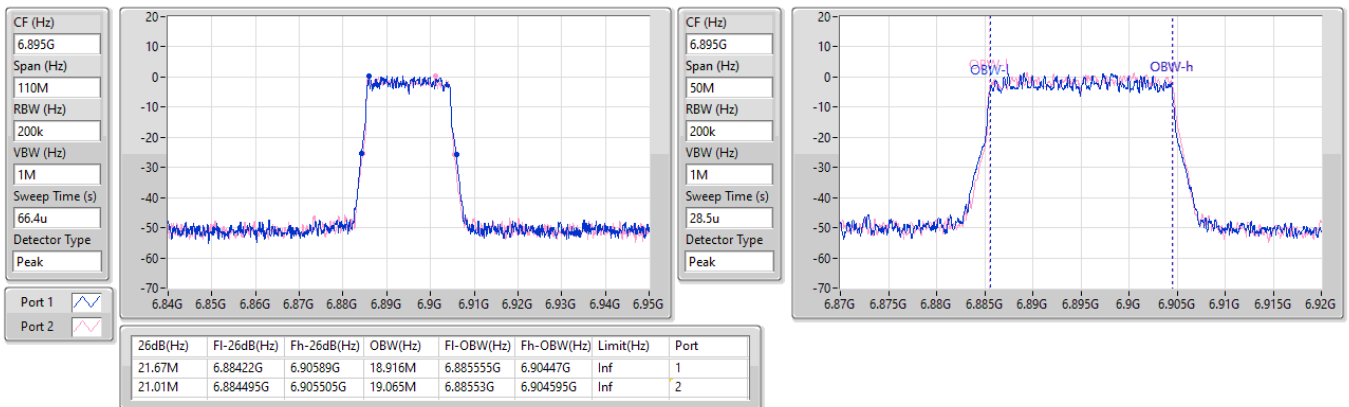


6.525-6.875GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
6875MHz Straddle 6.525-6.875GHz

03/02/2024


6.875-7.125GHz_802.11be EHT20_Nss2,(MCS0)_2TX
EBW
6895MHz

03/02/2024

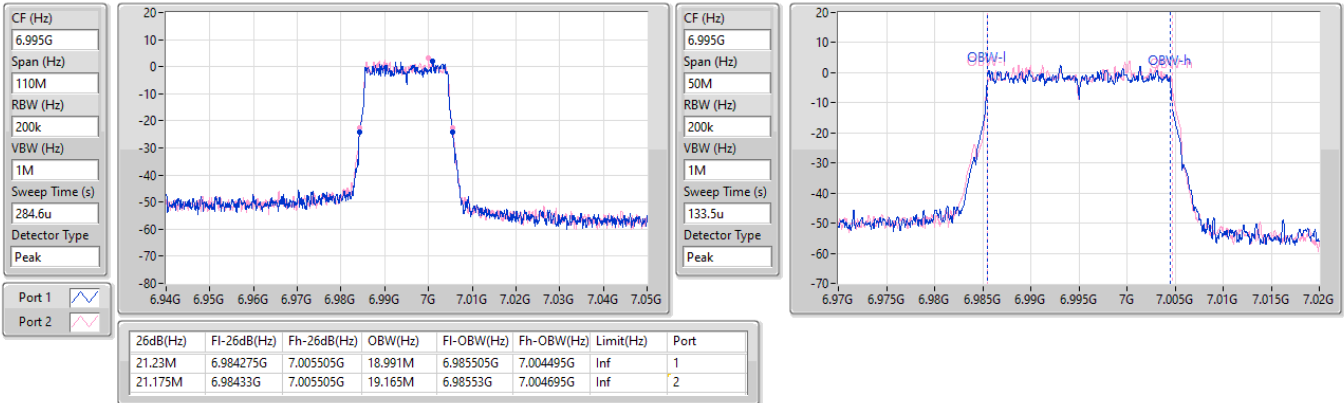


6.875-7.125GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

6995MHz

03/02/2024

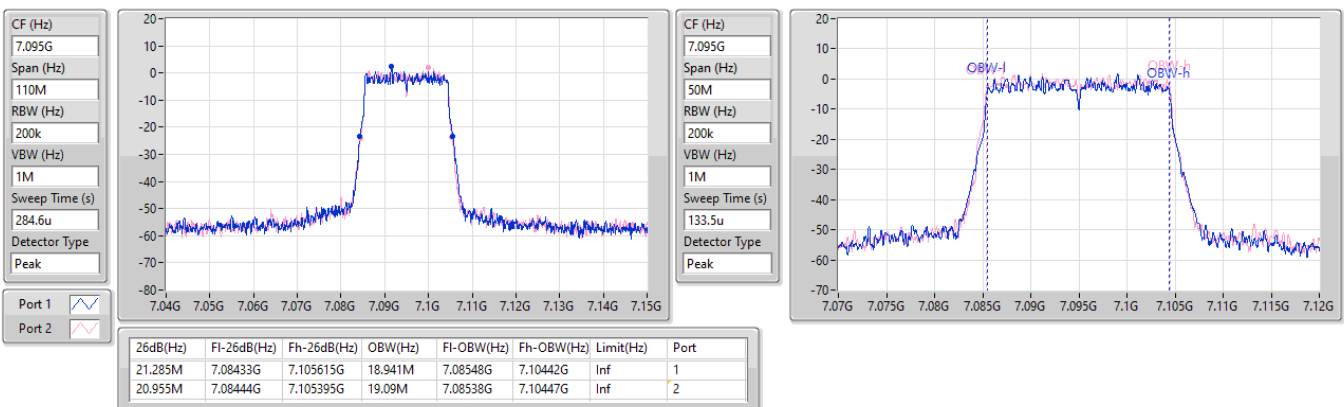


6.875-7.125GHz_802.11be EHT20_Nss2,(MCS0)_2TX

EBW

7095MHz

03/02/2024

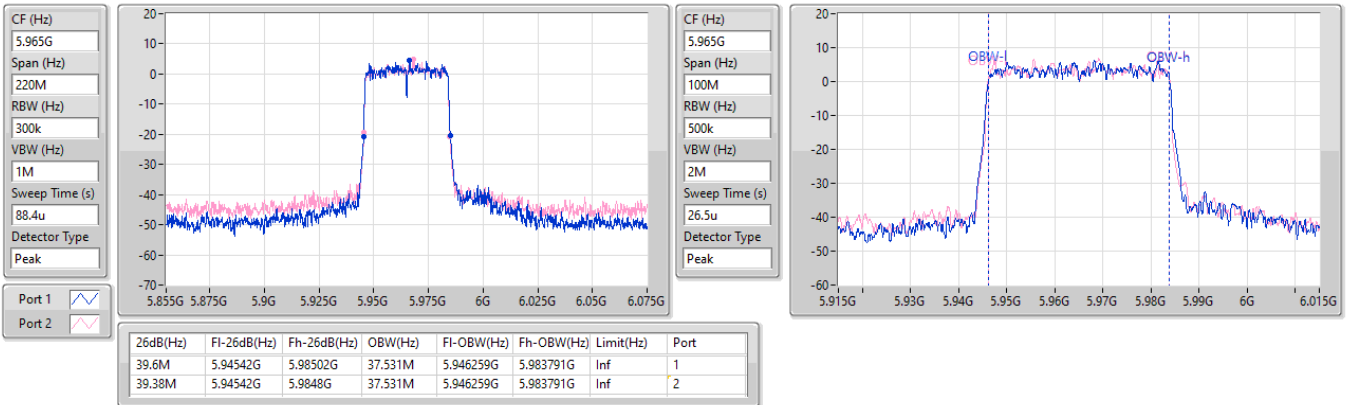


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

5965MHz

03/02/2024

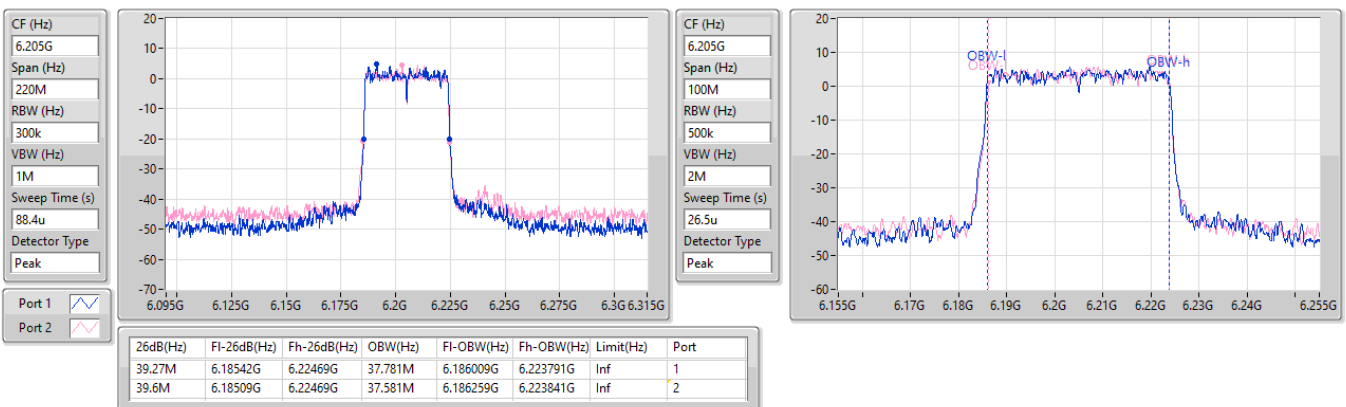


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

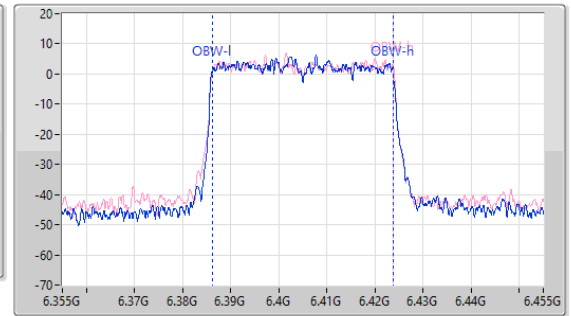
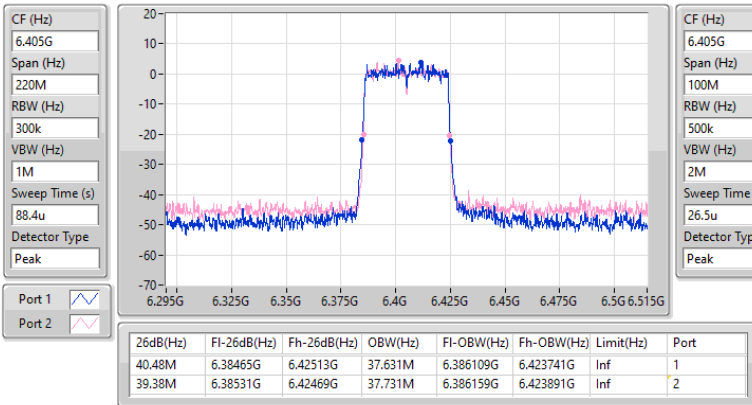
6205MHz

03/02/2024

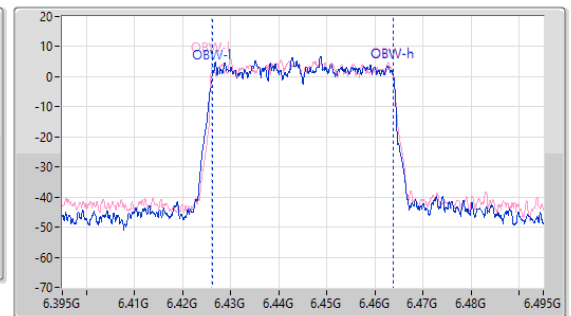
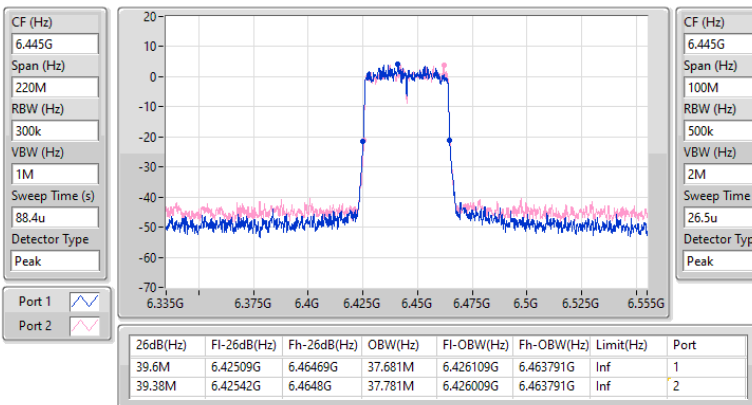


5.925-6.425GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
6405MHz

03/02/2024


6.425-6.525GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
6445MHz

03/02/2024

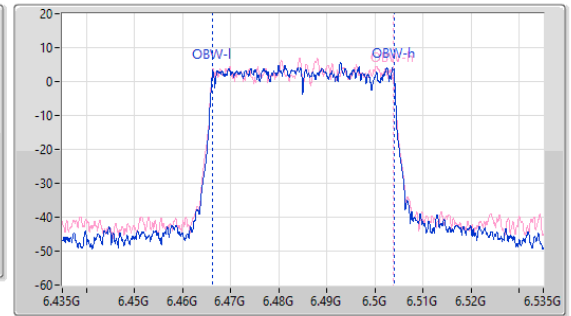
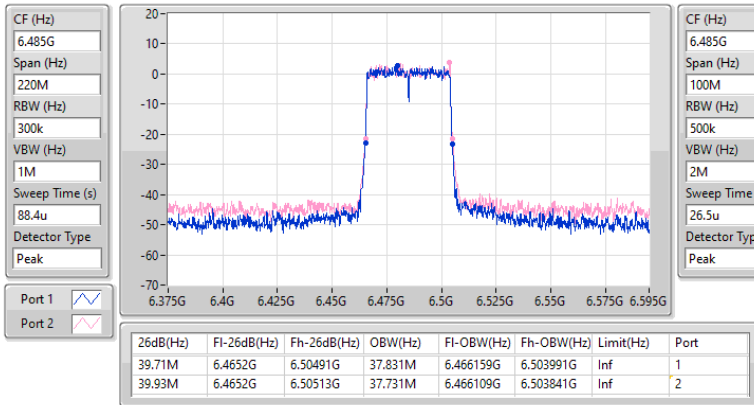


6.425-6.525GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6485MHz

03/02/2024

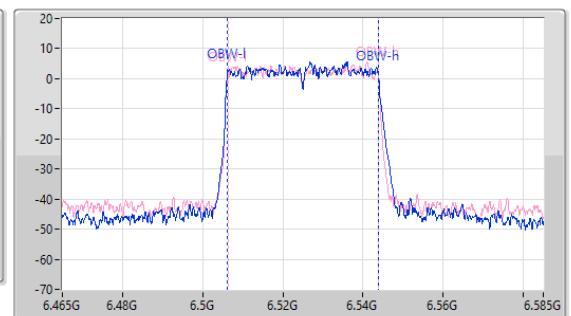
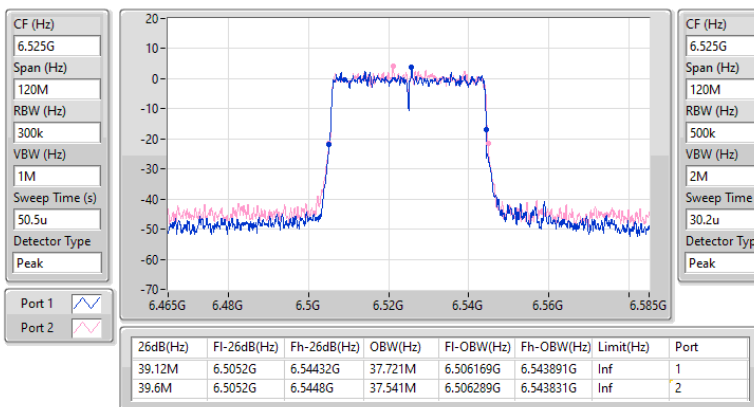


6.425-6.525GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6525MHz Straddle 6.425-6.525GHz

03/02/2024

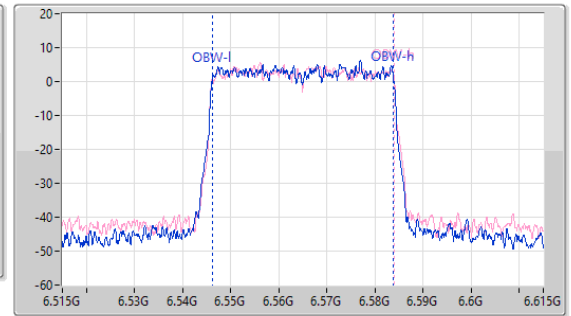
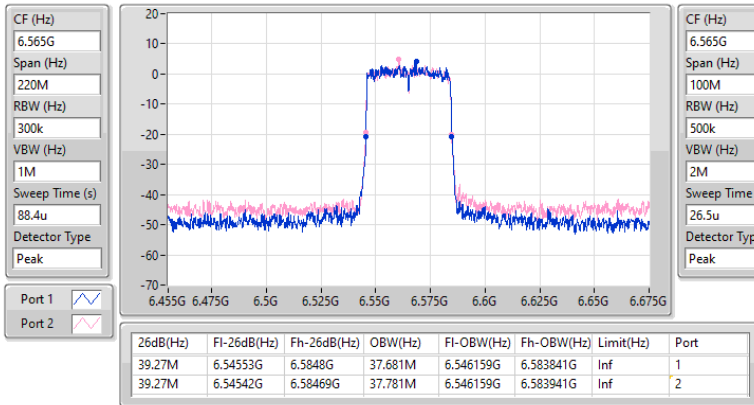


6.525-6.875GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

6565MHz

03/02/2024

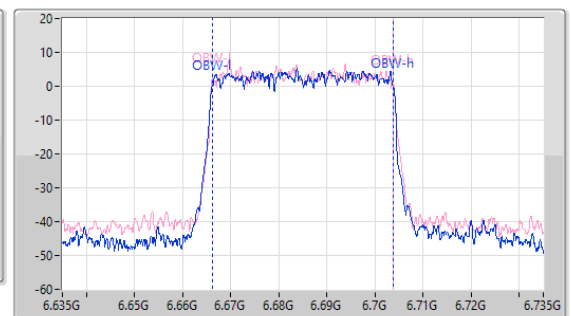
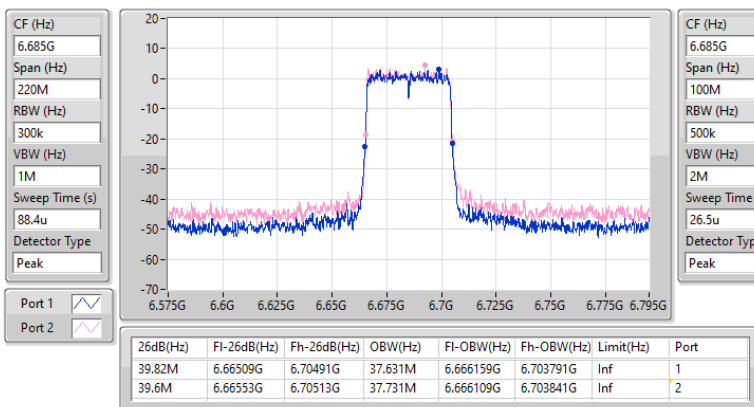


6.525-6.875GHz_802.11be EHT40_Nss2,(MCS0)_2TX

EBW

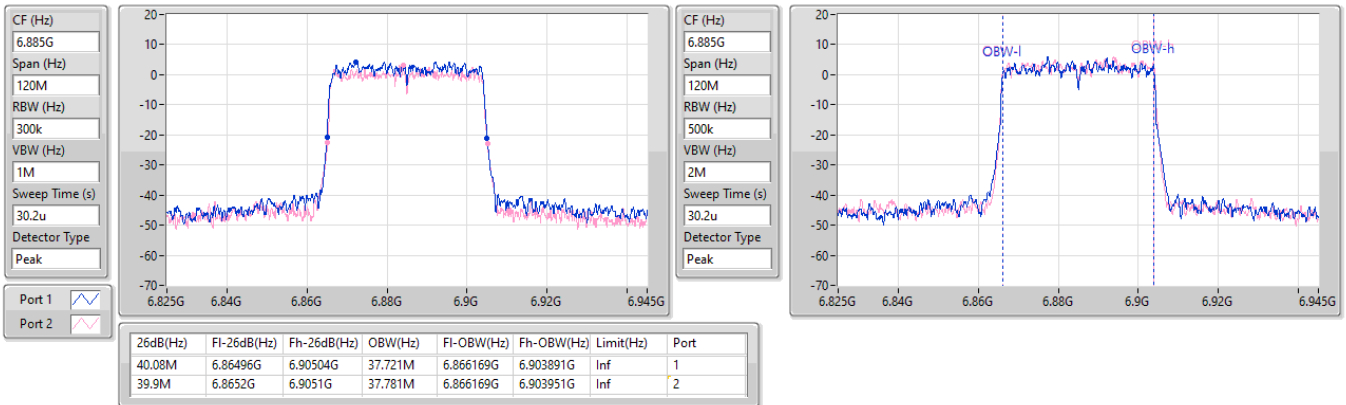
6685MHz

03/02/2024



6.525-6.875GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
6885MHz Straddle 6.525-6.875GHz

03/02/2024


6.875-7.125GHz_802.11be EHT40_Nss2,(MCS0)_2TX
EBW
6925MHz

03/02/2024

