

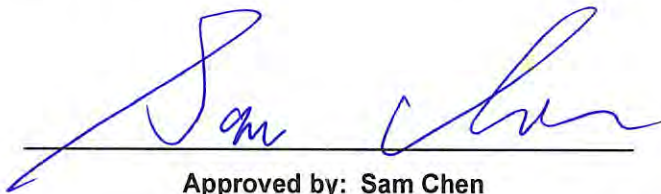


RADIO TEST REPORT

FCC ID : 2AHBN-AP47
Equipment : Wi-Fi 7 Wireless Access Point
Brand Name : Juniper
Model Name : AP47, AP47E, AP47D
Applicant : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089 USA
Manufacturer : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 15, 2024, and testing was started from Oct. 16, 2024 and completed on Jan. 17, 2025. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory
No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.4



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	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 Output Power	PASS	-
3.4	15.407(a)	Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	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: Cathy Chiu**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20), be (EHT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40), be (EHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80), be (EHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160), ax (HEW160), be (EHT160)	5250	50 [1]
5470-5725		5570	114 [1]

For Radio 2:

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.15-5.25GHz	802.11be EHT20	20	4TX
5.15-5.25GHz	802.11be EHT20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11n HT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11be EHT40	40	4TX
5.15-5.25GHz	802.11be EHT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.15-5.25GHz	802.11be EHT80	80	4TX
5.15-5.25GHz	802.11be EHT80-BF	80	4TX
5.15-5.35GHz	802.11ac VHT160	160	4TX
5.15-5.35GHz	802.11ac VHT160-BF	160	4TX
5.15-5.35GHz	802.11ax HEW160	160	4TX
5.15-5.35GHz	802.11ax HEW160-BF	160	4TX
5.15-5.35GHz	802.11be EHT160	160	4TX
5.15-5.35GHz	802.11be EHT160-BF	160	4TX
5.25-5.35GHz	802.11a	20	4TX
5.25-5.35GHz	802.11n HT20	20	4TX
5.25-5.35GHz	802.11n HT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11be EHT20	20	4TX
5.25-5.35GHz	802.11be EHT20-BF	20	4TX
5.25-5.35GHz	802.11n HT40	40	4TX
5.25-5.35GHz	802.11n HT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX
5.25-5.35GHz	802.11be EHT40	40	4TX
5.25-5.35GHz	802.11be EHT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	4TX
5.25-5.35GHz	802.11be EHT80	80	4TX
5.25-5.35GHz	802.11be EHT80-BF	80	4TX
5.47-5.725GHz	802.11a	20	4TX
5.47-5.725GHz	802.11n HT20	20	4TX
5.47-5.725GHz	802.11n HT20-BF	20	4TX



Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW20-BF	20	4TX
5.47-5.725GHz	802.11be EHT20	20	4TX
5.47-5.725GHz	802.11be EHT20-BF	20	4TX
5.47-5.725GHz	802.11n HT40	40	4TX
5.47-5.725GHz	802.11n HT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	4TX
5.47-5.725GHz	802.11be EHT40	40	4TX
5.47-5.725GHz	802.11be EHT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11be EHT80	80	4TX
5.47-5.725GHz	802.11be EHT80-BF	80	4TX
5.47-5.725GHz	802.11ac VHT160	160	4TX
5.47-5.725GHz	802.11ac VHT160-BF	160	4TX
5.47-5.725GHz	802.11ax HEW160	160	4TX
5.47-5.725GHz	802.11ax HEW160-BF	160	4TX
5.47-5.725GHz	802.11be EHT160	160	4TX
5.47-5.725GHz	802.11be EHT160-BF	160	4TX
5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11be EHT20	20	4TX
5.725-5.85GHz	802.11be EHT20-BF	20	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11be EHT40	40	4TX
5.725-5.85GHz	802.11be EHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11be EHT80	80	4TX
5.725-5.85GHz	802.11be EHT80-BF	80	4TX

For Radio 3:

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.15-5.25GHz	802.11be EHT20	20	4TX
5.15-5.25GHz	802.11be EHT20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11n HT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.15-5.25GHz	802.11be EHT40	40	4TX
5.15-5.25GHz	802.11be EHT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX
5.15-5.25GHz	802.11be EHT80	80	4TX
5.15-5.25GHz	802.11be EHT80-BF	80	4TX
5.15-5.35GHz	802.11ac VHT160	160	4TX
5.15-5.35GHz	802.11ac VHT160-BF	160	4TX
5.15-5.35GHz	802.11ax HEW160	160	4TX
5.15-5.35GHz	802.11ax HEW160-BF	160	4TX
5.15-5.35GHz	802.11be EHT160	160	4TX
5.15-5.35GHz	802.11be EHT160-BF	160	4TX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	4TX
5.25-5.35GHz	802.11n HT20	20	4TX
5.25-5.35GHz	802.11n HT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11be EHT20	20	4TX
5.25-5.35GHz	802.11be EHT20-BF	20	4TX
5.25-5.35GHz	802.11n HT40	40	4TX
5.25-5.35GHz	802.11n HT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX
5.25-5.35GHz	802.11be EHT40	40	4TX
5.25-5.35GHz	802.11be EHT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	4TX
5.25-5.35GHz	802.11be EHT80	80	4TX
5.25-5.35GHz	802.11be EHT80-BF	80	4TX

For Scanning Radio 4:

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11be EHT20	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11be EHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11be EHT80	80	2TX
5.15-5.35GHz	802.11ac VHT160	160	2TX
5.15-5.35GHz	802.11ax HEW160	160	2TX
5.15-5.35GHz	802.11be EHT160	160	2TX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2TX
5.25-5.35GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11be EHT20	20	2TX
5.25-5.35GHz	802.11n HT40	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11be EHT40	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.25-5.35GHz	802.11be EHT80	80	2TX
5.47-5.725GHz	802.11a	20	2TX
5.47-5.725GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11be EHT20	20	2TX
5.47-5.725GHz	802.11n HT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11be EHT40	40	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11be EHT80	80	2TX
5.47-5.725GHz	802.11ac VHT160	160	2TX
5.47-5.725GHz	802.11ax HEW160	160	2TX
5.47-5.725GHz	802.11be EHT160	160	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11be EHT20	20	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11be EHT40	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11be EHT80	80	2TX

MRU (static preamble puncturing)
For Multi_RU:

RU-tone	Configuration	Bandwidth (MHz)				5GHz Test CH					
						UNII-1	UNII-2A	UNII-2C		UNII2C/3	UNII-3
		80				CH42	CH58	CH106	CH122	CH138	CH155
484+242	1		242	484		--	V	--	V	V	V
	2	242		484		V	V	V	V	V	V
	3	484		242		V	V	V	V	V	V
	4	484	242			V	--	V	V	--	V

RU-tone	Configuration	Bandwidth (MHz)				5GHz Test CH	
						UNII-1/2A	UNII-2C
		160				CH50	CH114
996+484	1		484		996	--	V
	2	484			996	V	V
	3		996		484	V	V
	4		996	484		V	--
996+484+242	1		242	484	996	--	V
	2	242		484	996	V	V
	3	484		242	996	V	V
	4	484	242		996	V	V
	5		996		242	484	V
	6		996	242		484	V
	7		996	484		242	V
	8		996	484	242		--

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ EHT20, EHT40, EHT80 and EHT160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Worst case of MRU(static preamble puncturing) evaluation procedure**

1. Complete test Full RU BE & PSD
2. Measure the PSD of each MRU(static preamble puncturing) by conducted method and it is less than the Full RU conducted PSD.
3. Measure the Band edge emission of each MRU(static preamble puncturing) by conducted method and find out the MRU(static preamble puncturing) worst case configuration.
4. Follow step 3 to find the worst MRU(static preamble puncturing) configuration and perform radiated BE/RSE testing
5. Confirm whether the worst MRU(static preamble puncturing) configuration setting in step 3 and step 4 is the same. If there is a channel where the setting drops due to the test in step 4, the PSD of MRU(static preamble puncturing) needs to be reduced.

1.1.3 Antenna Information**For EUT 1:**

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	2	Juniper	AP47	PIFA	IPEX	Note 1	WLAN 2.4GHz, WLAN 5GHz UNII 1-2A, WLAN 6GHz UNII 7-8 (Radio 3)
2	1	Juniper	AP47	PIFA	IPEX		
3	3	Juniper	AP47	PIFA	IPEX		
4	4	Juniper	AP47	PIFA	IPEX		
5	2	Juniper	AP47	Alford loop	IPEX		WLAN 5GHz UNII 1-2A or UNII 2C-4 (Radio 2)
6	1	Juniper	AP47	Alford loop	IPEX		
7	3	Juniper	AP47	Alford loop	IPEX		
8	4	Juniper	AP47	Alford loop	IPEX		
9	2	Juniper	AP47	PIFA	IPEX		WLAN 6GHz UNII 5 or UNII 6-8 (Radio 1)
10	1	Juniper	AP47	PIFA	IPEX		
11	3	Juniper	AP47	PIFA	IPEX		
12	4	Juniper	AP47	PIFA	IPEX		
13	2	Juniper	AP47	PIFA	IPEX		WLAN 2.4GHz, WLAN 5GHz UNII 1-4, WLAN 6GHz UNII 5-8 (Radio 4) (Scanning radio)
14	1	Juniper	AP47	PIFA	IPEX		
15	1	Juniper	AP47	PIFA	I-PEX		
16	1	Juniper	AP47	Slot	I-PEX		
17	1	Juniper	AP47	PIFA	I-PEX		Bluetooth (Radio 5)
18	1	Juniper	AP47	PIFA	IPEX		
19	2	Juniper	AP47	Patch	IPEX	4.7	
	3					1.4	
	4					1.8	
20	1	Juniper	AP47	PIFA	IPEX	2.9	802.15.4(Zigbee, Thread) (Radio 5)
						1.4	
							UWB (Radio 6)
							GPS (Radio 7)



Note 1:

Ant.	Antenna Gain (dBi)									
	WLAN 2.4GHz (Radio 3)		WLAN 5GHz UNII 1-2A (Radio 3)				WLAN 6GHz UNII 7-8 (Radio 3)			
	2.45GHz		5.2GHz		5.3GHz		6.695GHz		6.995GHz	
1	3.06		5.64		5.4		4.47		4.4	
2	1.61		4.71		5.23		3.8		4	
3	1.81		4.76		4.97		4.4		4.47	
4	2.37		5.57		5.93		4.73		4.85	
Ant.	WLAN 5GHz UNII 1-4 (Radio 2)									
	5.2GHz		5.3GHz		5.6GHz		5.785GHz		5.885GHz	
	2.46		2.37		3.82		3.81		4.17	
6	2.43		2.15		2.98		3.49		3.81	
7	2.56		2.33		2.65		3.39		3.44	
8	3.28		2.61		4.3		4		3.92	
Ant.	WLAN 6GHz UNII 5-8 (Radio 1)									
	6.175GHz		6.475GHz			6.695GHz		6.995GHz		
	3.76		2.79			3.31		4.3		
10	3.16		2.9			2.57		3.68		
11	4.33		3.72			3.13		4.23		
12	4.63		3.97			3.57		5.09		
Ant.	WLAN 2.4GHz/5GHz UNII 1-4/WLAN 6GHz UNII 5-8 (Radio 4(Scanning radio))									
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
	13	2.29	3.12	3.98	4.37	4.51	5.79	4.9	3.84	4.73
14	2.28	4.62	3.66	5.76	4.67	5.83	4.73	4.72	3.36	3.72
Ant.	Bluetooth (Radio 5)									
	Bluetooth array (Beam 1-Beam 8/Omni)					Bluetooth array (Beam 9)				
	4.2					-				
16	-					3				
Ant.	802.15.4(Zigbee, Thread) (Radio 5)									
	3.9									

Item	Directional Gain (dBi)									
	WLAN 2.4GHz (Radio 3)		WLAN 5GHz UNII 1-2A (Radio 3)			WLAN 6GHz UNII 7-8 (Radio 3)				
	2.45GHz		5.2GHz		5.3GHz	6.695GHz		6.995GHz		
4T1S	5.27		7.04		7.06	8.84		9.09		
4T2S	3.06		5.64		5.93	5.84		6.09		
4T4S	3.06		5.64		5.93	4.73		4.85		
Item	WLAN 5GHz UNII 1-4 (Radio 2)									
	5.2GHz		5.3GHz		5.6GHz		5.785GHz		5.885GHz	
4T1S	7.11		6.52		7.65		7.52		7.28	
4T2S	4.11		3.52		4.65		4.52		4.28	
4T4S	3.28		2.61		4.3		4		4.17	
Item	WLAN 6GHz UNII 5-8 (Radio 1)									
	6.175GHz		6.475GHz			6.695GHz			6.995GHz	
4T1S	7.65		7.01			6.42			7.54	
4T2S	4.65		4.01			3.57			5.09	
4T4S	4.63		3.97			3.57			5.09	
Item	WLAN 2.4GHz/5GHz UNII 1-4/WLAN 6GHz UNII 5-8 (Radio 4(Scanning radio))									
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
2T1S	4.59	5.03	5.57	6.24	5.74	6.86	5.9	5.09	4.73	4.62
2T2S	2.29	4.62	3.98	5.76	4.67	5.83	4.9	4.72	4.73	4.62

Note 2: The above information (excepting Ant. 1-14 antenna gain and directional gain) was declared by manufacturer.

Note 3: The EUT has twenty antennas.

The ant.15 is BLE array (Beam 1-Beam 8/Omni).

The ant.16 is BLE array (Beam 9).

Beam 1-Beam 8, Omni, and Beam 9 can't operate simultaneously.

Note 4: Radio 1-4: Maximum Directional Gain following KDB662911 D03.

For Radio 1:

For 6GHz (UNII 5 or UNII 6-8) IEEE 802.11ax/be mode (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 2:

For 5GHz (UNII 1-2A or UNII 2C-4) IEEE 802.11a/n/ac/ax/be mode (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:

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (4TX/4RX)

For 5GHz (UNII 1-2A) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)

For 6GHz (UNII 7-8) IEEE 802.11ax/be mode (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(Scanning radio):

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)

For 5GHz (UNII 1-4) IEEE 802.11a/n/ac/ax/be mode (2TX/2RX)

For 6GHz (UNII 5-8) IEEE 802.11ax/be mode (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 5:

For Bluetooth and 802.15.4(Zigbee, Thread) mode (1TX/1RX)

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

For Radio 6:

For UWB mode (2TX/4RX):

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

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

For Radio 7:

For GPS (1RX)

Only Port 1 can be used as receiving antenna.


For EUT 2:

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	2	Juniper	AP47D	Dipole	IPEX	Note 1	WLAN 2.4GHz, WLAN 5GHz UNII 1-2A, WLAN 6GHz UNII 7-8 (Radio 3)
2	1	Juniper	AP47D	Dipole	IPEX		
3	3	Juniper	AP47D	Dipole	IPEX		
4	4	Juniper	AP47D	Dipole	IPEX		WLAN 5GHz UNII 1-2A or UNII 2C-4 (Radio 2)
5	2	Juniper	AP47D	Patch	IPEX		
6	1	Juniper	AP47D	Patch	IPEX		
7	3	Juniper	AP47D	Patch	IPEX		WLAN 6GHz UNII 5 or UNII 6-8 (Radio 1)
8	4	Juniper	AP47D	Patch	IPEX		
9	2	Juniper	AP47D	Patch	IPEX		
10	1	Juniper	AP47D	Patch	IPEX		WLAN 2.4GHz, WLAN 5GHz UNII 1-4, WLAN 6GHz UNII 5-8 (Radio 4) (Scanning radio)
11	3	Juniper	AP47D	Patch	IPEX		
12	4	Juniper	AP47D	Patch	IPEX		
13	2	Juniper	AP47D	Dipole	IPEX	Note 1	Bluetooth (Radio 5)
14	1	Juniper	AP47D	Dipole	IPEX		
15	1	Juniper	AP47D	PIFA	I-PEX		
16	1	Juniper	AP47D	Slot	I-PEX		802.15.4(Zigbee, Thread) (Radio 5)
17	1	Juniper	AP47D	Dipole	I-PEX		
18	1	Juniper	AP47D	Patch	IPEX	6.7	UWB (Radio 6)
19	2	Juniper	AP47D	Patch	IPEX	3.4	
	3					0.7	
	4					3.1	
20	1	Juniper	AP47D	PIFA	IPEX	4.6	GPS (Radio 7)

Note 1:

Ant.	Antenna Gain (dBi)				
	WLAN 2.4GHz (Radio 3)		WLAN 5GHz UNII 1-2A (Radio 3)		WLAN 6GHz UNII 7-8 (Radio 3)
	2.45GHz	5.2GHz	5.3GHz	6.695GHz	6.995GHz
1	5.34	3.6	3.6	6.21	7.65
2	5.33	4.58	4.48	6.68	8.1
3	5.53	4.05	4.27	7.32	7.93
4	5.16	5.23	4.51	7.75	8.36
Ant.	WLAN 5GHz UNII 1-4 (Radio 2)				
	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz
	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz
5	5.51	5.45	6.54	6.38	6.73
6	5.14	5.42	6.3	6.55	6.66
7	5.54	5.88	6.87	6.34	5.62
8	5.37	5.89	7.05	6.65	5.94
Ant.	WLAN 6GHz UNII 5-8 (Radio 1)				
	6.175GHz	6.475GHz	6.695GHz	6.995GHz	
	6.175GHz	6.475GHz	6.695GHz	6.995GHz	
9	7.86	7.99	6.72	7.15	
10	7.59	7.48	6.74	8.29	
11	5.81	6.3	5.48	6.44	
12	6.75	7.28	7.04	7.61	



Ant.	WLAN 2.4GHz/5GHz UNII 1-4/WLAN 6GHz UNII 5-8 (Radio 4(Scanning radio))									
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
13	4.18	4.62	4.53	5.24	4.35	4.43	5.87	5.74	5.31	7.78
14	4.07	5.08	4.76	5.6	6.15	6.29	7.08	6.68	6.97	8.17
Ant.	Bluetooth (Radio 5)									
	Bluetooth array (Beam 1-Beam 8/Omni)					Bluetooth array (Beam 9)				
15	4.3					-				
16	-					3.7				
Ant.	802.15.4(Zigbee, Thread) (Radio 5)									
	6.6									
17										

Item	Directional Gain (dBi)									
	WLAN 2.4GHz (Radio 3)		WLAN 5GHz UNII 1-2A (Radio 3)			WLAN 6GHz UNII 7-8 (Radio 3)				
	2.45GHz		5.2GHz	5.3GHz		6.695GHz	6.995GHz			
4T1S	8.34		7.3	7.56		10.62	10.8			
4T2S	5.53		5.23	4.56		7.75	8.36			
4T4S	5.53		5.23	4.51		7.75	8.36			
Item	WLAN 5GHz UNII 1-4 (Radio 2)									
	5.2GHz		5.3GHz	5.6GHz		5.785GHz	5.885GHz			
4T1S	9		8.75	9.58		9.57	9.06			
4T2S	6		5.89	7.05		6.65	6.73			
4T4S	5.54		5.89	7.05		6.65	6.73			
Item	WLAN 6GHz UNII 5-8 (Radio 1)									
	6.175GHz		6.475GHz	6.695GHz		6.995GHz				
4T1S	10.14		10.42	9.72		10.76				
4T2S	7.86		7.99	7.04		8.29				
4T4S	7.86		7.99	7.04		8.29				
Item	WLAN 2.4GHz/5GHz UNII 1-4/WLAN 6GHz UNII 5-8 (Radio 4(Scanning radio))									
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	5.885GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
2T1S	6.71	7.72	7.56	8.11	8.31	8.35	9.44	9.16	9.02	10.8
2T2S	4.18	5.08	4.76	5.6	6.15	6.29	7.08	6.68	6.97	8.17

Note 2: The above information (excepting Ant. 1-14 antenna gain and directional gain) was declared by manufacturer.

Note 3: The EUT has twenty antennas.

The ant.15 is BLE array (Beam 1-Beam 8/Omni).

The ant.16 is BLE array (Beam 9).

Beam 1-Beam 8, Omni, and Beam 9 can't operate simultaneously.

Note 4: Radio 1-4: Maximum Directional Gain following KDB662911 D03.

For Radio 1:

For 6GHz (UNII 5 or UNII 6-8) IEEE 802.11ax/be mode (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 2:

For 5GHz (UNII 1-2A or UNII 2C-4) IEEE 802.11a/n/ac/ax/be mode (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:

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (4TX/4RX)

For 5GHz (UNII 1-2A) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)

For 6GHz (UNII 7-8) IEEE 802.11ax/be mode (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(Scanning radio):

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)

For 5GHz (UNII 1-4) IEEE 802.11a/n/ac/ax/be mode (2TX/2RX)

For 6GHz (UNII 5-8) IEEE 802.11ax/be mode (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 5:

For Bluetooth and 802.15.4(Zigbee, Thread) mode (1TX/1RX)

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

For Radio 6:

For UWB mode (2TX/4RX):

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

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

For Radio 7:

For GPS (1RX)

Only Port 1 can be used as receiving antenna.


For EUT 3:

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	1	AccelTex	ATS-OP-2456-81010-14MPC-36	Patch	6MPC-WHT	Note 1	WLAN 2.4GHz, WLAN 5GHz UNII 1-2A, WLAN 6GHz UNII 7 (Radio 3)
	2						WLAN 5GHz UNII 1-2A or UNII 2C-3 (Radio 2)
	3						WLAN 6GHz UNII 5 or UNII 7 (Radio 1)
	4						WLAN 2.4GHz, WLAN 5GHz UNII 1-3, WLAN 6GHz UNII 5, 7 (Radio 4) (Scanning radio)
	1				4MPC		
	2						
	3						
	4						
	1				6MPC-BLK		
	2						
	3						
	4						
2	6MPC-BLK						
1							
2							
3							
2	1	Juniper	AP47E	PIFA	I-PEX	Bluetooth (Radio 5)	
3	1	Juniper	AP47E	Slot	I-PEX		
4	1	Juniper	AP47E	PIFA	I-PEX		
5	1	Juniper	AP47E	PIFA	IPEX	4.7	UWB (Radio 6)
6	2	Juniper	AP47E	Patch	IPEX	1.4	
	3					2.1	
	4					1.7	
7	1	Juniper	AP47E	PIFA	IPEX	3.3	GPS (Radio 7)

Note 1:

Ant.	RF Port	Antenna Gain (dBi)		
		WLAN 2.4GHz (Radio 3)	WLAN 5GHz UNII 1-2A (Radio 3)	WLAN 6GHz UNII 7 (Radio 3)
1	1	8.46	10.01	10
	2	8.46	10.01	10
	3	8.46	10.01	10
	4	8.46	10.01	10
Ant.	RF Port	WLAN 5GHz UNII 1-3 (Radio 2)		
1	1	9.93		
	2	9.93		
	3	9.93		
	4	9.93		

Ant.	RF Port	WLAN 6GHz UNII 5 or UNII 7 (Radio 1)		
1	1	10.57		
	2	10.57		
	3	10.57		
	4	10.57		
	RF Port	WLAN 2.4GHz/5GHz UNII 1-3/WLAN 6GHz UNII 5, 7 (Radio 4(Scanning radio))		
		WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz
	1	7.8	9.5	10
	2	7.8	9.5	10
Ant.	Bluetooth (Radio 5)			
	Bluetooth array (Beam 1-Beam 8/Omni)		Bluetooth array (Beam 9)	
2	4.0		-	
3	-		2.8	
Ant.	802.15.4(Zigbee, Thread) (Radio 5)			
4	4.1			

Note 2: Directional gain information for Radio 1-3

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

Ex.

Directional Gain (NSS1) formula :

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

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$gj,k = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

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

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

Where ;

Radio 1:

6G UNII-5 G1 = 10.57 dBi; G2 = 10.57 dBi; G3 = 10.57 dBi; G4 = 10.57 dBi

6G UNII-7 G1 = 10.57 dBi; G2 = 10.57 dBi; G3 = 10.57 dBi; G4 = 10.57 dBi

6G UNII-5 DG = 13.58 dBi

6G UNII-7 DG = 13.58 dBi

Radio 2:

5G UNII-1 G1 = 9.93 dBi; G2 = 9.93 dBi; G3 = 9.93 dBi; G4 = 9.93 dBi

5G UNII-2A G1 = 9.93 dBi; G2 = 9.93 dBi; G3 = 9.93 dBi; G4 = 9.93 dBi

5G UNII-2C G1 = 9.93 dBi; G2 = 9.93 dBi; G3 = 9.93 dBi; G4 = 9.93 dBi

5G UNII-3 G1 = 9.93 dBi; G2 = 9.93 dBi; G3 = 9.93 dBi; G4 = 9.93 dBi

5G UNII-1 DG = 12.94 dBi

5G UNII-2A DG = 12.94 dBi

5G UNII-2C DG = 12.94 dBi

5G UNII-3 DG = 12.94 dBi

Radio 3:

2.4G G1 = 8.46 dBi; G2 = 8.46 dBi; G3 = 8.46 dBi; G4 = 8.46 dBi

5G UNII-1 G1 = 10.01 dBi; G2 = 10.01 dBi; G3 = 10.01 dBi; G4 = 10.01 dBi

5G UNII-2A G1 = 10.01 dBi; G2 = 10.01 dBi; G3 = 10.01 dBi; G4 = 10.01 dBi

6G UNII-7 G1 = 10 dBi; G2 = 10 dBi; G3 = 10 dBi; G4 = 10 dBi

2.4G DG = 11.47 dBi

5G UNII-1 DG = 13.02 dBi

5G UNII-2A DG = 13.02 dBi

6G UNII-7 DG = 13.01 dBi



Note 3: The above information was declared by manufacturer.

Note 4: The EUT has seven antennas.

The ant. 2 is BLE array (Beam 1-Beam 8/Omni).

The ant. 3 is BLE array (Beam 9).

Beam 1-Beam 8, Omni, and Beam 9 can't operate simultaneously.

Note 5: The ant. 1 is the cross-polarized antenna.

The ant. 1 (6MPC-WHT connector and 4MPC connector): Vertical*2, Horizontal*2; the array gain only add $10\log(2)$.

The ant. 1 (6MPC-BLK connector) for radio 1: Vertical*2, Horizontal*2; the array gain only add $10\log(2)$.

The ant. 1 (6MPC-BLK connector) for radio 4: Vertical*1, Horizontal*1; it doesn't need to evaluate array gain.

Note 6: Radio 1-3: Maximum Directional Gain following KDB662911 D01.

For Radio 1:

For 6GHz (UNII 5 or UNII 7) IEEE 802.11ax/be mode (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 2:

For 5GHz (UNII 1-2A or UNII 2C-3) IEEE 802.11a/n/ac/ax/be mode (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:

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (4TX/4RX)

For 5GHz (UNII 1-2A) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)

For 6GHz (UNII 7) IEEE 802.11ax/be mode (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(Scanning radio):

For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)

For 5GHz (UNII 1-3) IEEE 802.11a/n/ac/ax/be mode (2TX/2RX)

For 6GHz (UNII 5, 7) IEEE 802.11ax/be mode (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 5:

For Bluetooth and 802.15.4(Zigbee, Thread) mode (1TX/1RX)

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

For Radio 6:

For UWB mode (2TX/4RX):

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

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

For Radio 7:

For GPS (1RX)

Only Port 1 can be used as receiving antenna.

**1.1.4 Mode Test Duty Cycle****For Full_RU:****For EUT 1:****For Radio 2:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11a_Nss 1,(6D)	0.527	2.78	128.75u	10k
802.11be EHT20_Nss 1,(M0)	0.908	0.42	325u	10k
802.11be EHT40_Nss 1,(M0)	0.903	0.44	307.5u	10k
802.11be EHT80_Nss 1,(M0)	0.895	0.48	296.25u	10k
802.11be EHT160_Nss 1,(M0)	0.899	0.46	292.5u	10k
802.11be EHT20-BF_Nss 1,(M0)	0.908	0.42	325u	10k
802.11be EHT40-BF_Nss 1,(M0)	0.903	0.44	307.5u	10k
802.11be EHT80-BF_Nss 1,(M0)	0.895	0.48	296.25u	10k
802.11be EHT160-BF_Nss 1,(M0)	0.899	0.46	292.5u	10k

For Radio 3:

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11a	0.537	2.7	128.437u	10k
802.11be EHT20	0.908	0.42	322.188u	10k
802.11be EHT40	0.903	0.44	304.375u	10k
802.11be EHT80	0.901	0.45	295u	10k
802.11be EHT160	0.901	0.45	290.938u	10k
802.11be EHT20-BF	0.908	0.42	322.188u	10k
802.11be EHT40-BF	0.903	0.44	304.375u	10k
802.11be EHT80-BF	0.901	0.45	295u	10k
802.11be EHT160-BF	0.901	0.45	290.938u	10k

For Scanning Radio 4:

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11a_Nss 1,(6D)	0.55	2.6	135u	10k
802.11be EHT20_Nss 1,(M0)	0.908	0.42	322.5u	10k
802.11be EHT40_Nss 1,(M0)	0.904	0.44	305u	10k
802.11be EHT80_Nss 1,(M0)	0.902	0.45	295.625u	10k
802.11be EHT160_Nss 1,(M0)	0.901	0.45	291.25u	10k

For EUT 2:**For Radio 2:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11a_Nss 1,(6D)	0.533	2.73	128.75u	10k
802.11be EHT20_Nss 1,(M0)	0.902	0.45	322.5u	10k
802.11be EHT40_Nss 1,(M0)	0.898	0.47	305u	10k
802.11be EHT80_Nss 1,(M0)	0.895	0.48	295u	10k
802.11be EHT160_Nss 1,(M0)	0.894	0.49	291.25u	10k
802.11be EHT20-BF_Nss 1,(M0)	0.902	0.45	322.5u	10k
802.11be EHT40-BF_Nss 1,(M0)	0.898	0.47	305u	10k
802.11be EHT80-BF_Nss 1,(M0)	0.895	0.48	295u	10k
802.11be EHT160-BF_Nss 1,(M0)	0.894	0.49	291.25u	10k

**For Radio 3:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11a_Nss 1,(6D)	0.55	2.6	135u	10k
802.11be EHT20_Nss 1,(M0)	0.909	0.41	325u	10k
802.11be EHT40_Nss 1,(M0)	0.909	0.41	307.5u	10k
802.11be EHT80_Nss 1,(M0)	0.907	0.42	297.5u	10k
802.11be EHT160_Nss 1,(M0)	0.908	0.42	295u	10k
802.11be EHT20-BF_Nss 1,(M0)	0.909	0.41	325u	10k
802.11be EHT40-BF_Nss 1,(M0)	0.909	0.41	307.5u	10k
802.11be EHT80-BF_Nss 1,(M0)	0.907	0.42	297.5u	10k
802.11be EHT160-BF_Nss 1,(M0)	0.908	0.42	295u	10k

For Scanning Radio 4:

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11a	0.537	2.7	128.437u	10k
802.11be EHT20	0.908	0.42	322.031u	10k
802.11be EHT40	0.903	0.44	304.219u	10k
802.11be EHT80	0.903	0.44	294.688u	10k
802.11be EHT160	0.897	0.47	290.625u	10k

For EUT 3:**For Radio 2:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11a_Nss 1,(6D)	0.539	2.68	128.281u	10k
802.11be EHT20_Nss 1,(M0)	0.901	0.45	322.031u	10k
802.11be EHT40_Nss 1,(M0)	0.899	0.46	304.375u	10k
802.11be EHT80_Nss 1,(M0)	0.896	0.48	294.688u	10k
802.11be EHT160_Nss 1,(M0)	0.893	0.49	290.625u	10k
802.11be EHT20-BF_Nss 1,(M0)	0.901	0.45	322.031u	10k
802.11be EHT40-BF_Nss 1,(M0)	0.899	0.46	304.375u	10k
802.11be EHT80-BF_Nss 1,(M0)	0.896	0.48	294.688u	10k
802.11be EHT160-BF_Nss 1,(M0)	0.893	0.49	290.625u	10k

For Radio 3:

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11a_Nss 1,(6D)	0.549	2.6	131.25u	10k
802.11be EHT20_Nss 1,(M0)	0.915	0.39	325u	5k
802.11be EHT40_Nss 1,(M0)	0.912	0.4	309.375u	5k
802.11be EHT80_Nss 1,(M0)	0.91	0.41	300u	5k
802.11be EHT160_Nss 1,(M0)	0.909	0.41	293.75u	5k
802.11be EHT20-BF_Nss 1,(M0)	0.915	0.39	325u	5k
802.11be EHT40-BF_Nss 1,(M0)	0.912	0.4	309.375u	5k
802.11be EHT80-BF_Nss 1,(M0)	0.91	0.41	300u	5k
802.11be EHT160-BF_Nss 1,(M0)	0.909	0.41	293.75u	5k

**For Scanning Radio 4:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss 1,(6D)	0.539	2.68	128.437u	10k
802.11be EHT20_Nss 1,(M0)	0.907	0.42	322.188u	10k
802.11be EHT40_Nss 1,(M0)	0.902	0.45	304.375u	10k
802.11be EHT80_Nss 1,(M0)	0.9	0.46	295u	10k
802.11be EHT160_Nss 1,(M0)	0.9	0.46	290.938u	10k

For Multi_RU:**For EUT 1:****For Radio 2:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss1,(MCS0),RU484+RU242	0.97	0.13	1.003m	1k
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242	0.967	0.15	998.75u	3k
802.11be EHT160_Nss1,(MCS0),RU996+RU484	0.967	0.15	999.063u	3k

For Radio 3:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss1,(MCS0),RU484+RU242	0.969	0.14	998.75u	3k
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242	0.972	0.12	998.75u	3k
802.11be EHT160_Nss1,(MCS0),RU996+RU484	0.969	0.14	998.75u	3k

For EUT 2:**For Radio 2:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss1,(MCS0),RU484+RU242	0.967	0.15	999.063u	3k
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242	0.97	0.13	999.063u	3k
802.11be EHT160_Nss1,(MCS0),RU996+RU484	0.966	0.15	998.75u	3k

For Radio 3:

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss1,(MCS0),RU484+RU242	0.972	0.12	998.75u	3k
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242	0.969	0.14	999.063u	3k
802.11be EHT160_Nss1,(MCS0),RU996+RU484	0.969	0.14	998.75u	3k

For EUT 3:**For Radio 2:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX	0.966	0.15	998.75u	3k
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 3_4TX	0.967	0.15	998.75u	3k
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX	0.966	0.15	998.75u	3k

**For Radio 3:**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX	0.968	0.14	998.75u	2k
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 5_4TX	0.968	0.14	998.75u	2k
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 3_4TX	0.968	0.14	998.75u	2k

Note:

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



1.1.5 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for Radio 1 (ax/be in 6GHz), Radio 2 (n/ac/ax/be in 5GHz), and Radio 3 (n/VHT/ax/be in 2.4GHz, n/ac/ax/be in 5GHz, and ax/be in 6GHz).			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
TPC Function	☒	With TPC	☐	Without TPC
Channel Puncturing Function	☒	Supported Static Puncturing for Radio 2, 3		
	☐	Supported Dynamic Puncturing		
	☒	Unsupported for Scanning Radio 4		
Support RU	☒	Full RU for Radio 2, 3 and Scanning Radio 4	☒	Partial RU for Radio 2, 3
Test Software Version	accessMtool 3.0.0.8			

Note: The above information was declared by manufacturer.

1.1.6 Table for Multiple Listing

EUT	Model Name	WLAN 5GHz UNII 4	WLAN 6GHz	Wi-Fi antenna	UWB antenna (PDoA)	UWB antenna (TWR)	802.15.4 (Zigbee, Thread) antenna	Bluetooth antenna	GPS antenna	Description
1	AP47	Support	Support	Internal Antenna	The same	AP47/ AP47E the same	AP47/ AP47E the same	The same	AP47/ AP47E the same	-
2	AP47D	Support	Support	Internal Antenna	The same	Not the same	Not the same	The same	Not the same	The difference with AP47 is only in Wi-Fi, UWB(TWR), 802.15.4(Zigbee, Thread) and GPS antenna.
3	AP47E	Non Support	Non Support	External Antenna	The same	AP47/ AP47E the same	AP47/ AP47E the same	The same	AP47/ AP47E the same	-

Note1: All models are identical to each other in all aspects except for the listing table.

Note2: The above information was declared by manufacturer.

1.1.7 Table for Radio Function

For EUT 1 and EUT 2:

Radio \ Function	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	802.15.4 (Zigbee, Thread)	UWB	GPS
1	-	-	V (UNII 5 or UNII 6-8)	-	-	-	-
2	-	V (UNII 1-2A or UNII2C-4)	-	-	-	-	-
3	V	V (UNII 1-2A)	V (UNII 7-8)	-	-	-	-
4 (Scanning radio)	V	V (UNII 1-4)	V (UNII 5-8)	-	-	-	-
5	-	-	-	V	V	-	-
6	-	-	-	-	-	V	-
7	-	-	-	-	-	-	V

Note1: The above information was declared by manufacturer.

Note2: For WLAN 2.4GHz: The Radio 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 5GHz: The Radio 2, 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 6GHz: The Radio 1, 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

For EUT 3:

Radio \ Function	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	802.15.4 (Zigbee, Thread)	UWB	GPS
1	-	-	-	-	-	-	-
2	-	V (UNII 1-2A or UNII2C-3)	-	-	-	-	-
3	V	V (UNII 1-2A)	-	-	-	-	-
4 (Scanning radio)	V	V (UNII 1-3)	-	-	-	-	-
5	-	-	-	V	V	-	-
6	-	-	-	-	-	V	-
7	-	-	-	-	-	-	V

Note1: The above information was declared by manufacturer.

Note2: The Radio 1 is not enabled.

Note3: For WLAN 2.4GHz: The Radio 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 5GHz: The Radio 2, 3 and Radio 4(Scanning radio) can't operate at the same frequency simultaneously.

1.1.8 Table for EUT Operation Function

Mode	Operation Function
1	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Bluetooth+R6:UWB
2	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
3	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
4	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
5	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
6	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
7	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
8	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
9	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
10	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
11	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
12	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
13	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
14	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
15	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
16	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
17	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
18	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
19	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
20	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
21	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
22	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
23	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
24	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
25	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
26	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
27	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
28	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB
29	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
30	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
31	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
32	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
33	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
34	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB
35	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
36	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
37	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Bluetooth+R6:UWB
38	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
39	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB



40	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Zigbee+R6:UWB
41	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
42	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
43	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Bluetooth+R6:UWB
44	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
45	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
46	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Zigbee+R6:UWB
47	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
48	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
49	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Bluetooth+R6:UWB
50	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
51	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
52	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
53	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
54	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
55	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
56	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
57	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
58	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
59	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
60	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
61	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
62	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
63	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
64	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
65	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
66	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
67	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
68	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
69	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
70	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
71	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
72	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
73	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
74	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
75	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
76	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB
77	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
78	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
79	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
80	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
81	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
82	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB



83	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
84	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
85	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Bluetooth+R6:UWB
86	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
87	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
88	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Zigbee+R6:UWB
89	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
90	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
91	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Bluetooth+R6:UWB
92	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
93	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
94	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Zigbee+R6:UWB
95	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
96	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
97	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
98	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
99	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
100	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
101	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
102	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB
103	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
104	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB
105	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:2.4GHz+R5:Bluetooth+R6:UWB
106	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
107	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:2.4GHz+R5:Zigbee+R6:UWB
108	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB

Note1: R means Radio.

Note2: 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
- ♦ 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 662911 D01 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 ISCED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted (For EUT 1)	TH02-CB	Gino Huang	22.7~24.6 / 61~65	Oct. 23, 2024~Jan. 14, 2025
RF Conducted (For EUT 2)	TH02-CB	Gino Huang	23.3~24.2 / 62~64	Oct. 22, 2024~Jan. 15, 2025
RF Conducted (For EUT 3)	TH01-CB	Brian Sun	23.5~24 / 63~64	Nov. 20, 2024~Jan. 13, 2025
Radiated (Below 1GHz)	03CH05-CB	Gordon Hung	21.9~22.4 / 60~62	Jan. 16, 2025
Radiated (Above 1GHz_For EUT 1_Full RU)	03CH02-CB	Viola Huang	22~23 / 61~63	Oct. 16, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 15, 2025
	03CH04-CB		22.7~23.8 / 58~60	
	03CH06-CB		22.5~22.9 / 58~60	
Radiated (Above 1GHz_For EUT 1_Multi_RU)	03CH03-CB	Viola Huang	22.2~22.6 / 59~61	Oct. 16, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 15, 2025
	03CH04-CB		22.7~23.8 / 58~60	
Radiated (Above 1GHz_For EUT 2_Full RU)	03CH03-CB	Viola Huang	22.2~22.6 / 59~61	Oct. 16, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 15, 2025
	03CH04-CB		22.7~23.8 / 58~60	
	03CH05-CB		21.9~22.4 / 60~62	
	03CH06-CB		22.5~22.9 / 58~60	
Radiated (Above 1GHz_For EUT 2_Multi_RU)	03CH02-CB	Viola Huang	22~23 / 61~63	Oct. 16, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 15, 2025
Radiated (Above 1GHz_For EUT 3_Full RU)	03CH04-CB	Viola Huang	22.7~23.8 / 58~60	Nov. 14, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 10, 2025
	03CH05-CB		21.9~22.4 / 60~62	
	03CH06-CB		22.5~22.9 / 58~60	



Radiated (Above 1GHz_For EUT 3_Multi_RU)	03CH06-CB	Viola Huang	22.5-22.9 / 58-60	Nov. 14, 2024~Nov. 23, 2024 / Nov. 25, 2024~Jan. 10, 2025
Radiated (Co-location)	03CH05-CB	Viola Huang	21.9-22.4 / 60-62	Jan. 16, 2025
AC Conduction	CO02-CB	Gray Lee	23~24 / 52~53	Dec. 31, 2024~Jan. 17, 2025

1.4 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Channel Mode

For Full_RU:

For EUT 1:

For Radio 2:

Mode
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz



5795MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz



5250MHz Straddle 5.25-5.35GHz
5570MHz

For Radio 3:

Mode
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5210MHz
5290MHz
802.11be EHT160_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5210MHz
5290MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz

**For Scanning Radio 4:**

Mode
802.11a_Nss1,(6Mbps)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz



5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS0)_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz

**For EUT 2:
For Radio 2:**

Mode
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz



5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX



5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz

For Radio 3:

Mode
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5210MHz
5290MHz
802.11be EHT160_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5210MHz
5290MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz

**For Scanning Radio 4:**

Mode
802.11a_Nss1,(6Mbps)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz



5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS0)_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz

For EUT 3:
For Radio 2:

Mode
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz



5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX



5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz

For Radio 3:

Mode
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80_Nss1,(MCS0)_4TX
5210MHz
5290MHz
802.11be EHT160_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80-BF_Nss1,(MCS0)_4TX
5210MHz
5290MHz
802.11be EHT160-BF_Nss1,(MCS0)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz

**For Scanning Radio 4:**

Mode
802.11a_Nss1,(6Mbps)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS0)_2TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz



5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz

For Multi_RU:**For EUT 1:****For Radio 2:**

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5530MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5775MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 8_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 4_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 8_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 4_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 5_4TX
5570MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 3_4TX
5570MHz

For Radio 3:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5290MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 2_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 4_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 2_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 4_4TX



5250MHz Straddle 5.25-5.35GHz

For EUT 2:**For Radio 2:**

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 1
5290MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3
5530MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3
5610MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2
5775MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 5
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 4
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 4
5570MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2
5570MHz

For Radio 3:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 1_4TX
5290MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 8_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 4_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz

For EUT 3:**For Radio 2:**

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5530MHz



802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 2_4TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5775MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 3_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 3_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 1_4TX
5570MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 3_4TX
5570MHz

For Radio 3:

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 1_4TX
5290MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 5_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 3_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484+RU242 MRU 5_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 3_4TX
5250MHz Straddle 5.25-5.35GHz

Note:

- ♦ Evaluated EHT20/EHT40/EHT80/EHT160 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160/HEW20/HEW40/HEW80/HEW160 mode are the same or lower than EHT20/EHT40/EHT80/EHT160.
- ♦ For Radio 2, 3: The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
2	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
3	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
4	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
5	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
6	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
7	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
8	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
9	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
10	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
11	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
12	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
13	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
14	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
15	EUT 1_R1:6GHz UNII 5+R4:5GHz UNII 1-4+R5:Zigbee(TX)+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
16	EUT 1_R1:6GHz UNII 5+R4:5GHz UNII 1-4+R5:Zigbee(RX)+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
17	EUT 1_R2:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
Mode 8 has been evaluated to be the worst case among Mode 1~17, thus measurement for Mode 18 will	



follow this same test mode.	
18	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth1+PoE port)
19	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
20	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
21	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
22	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
23	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
24	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
25	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
26	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
27	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
28	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
29	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
30	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
31	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
32	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
33	EUT 2_R1:6GHz UNII 5+R4:5GHz UNII 1-4+R5:Zigbee(TX)+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
34	EUT 2_R1:6GHz UNII 5+R4:5GHz UNII 1-4+R5:Zigbee(RX)+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
35	EUT 2_R2:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+ R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
Mode 20 has been evaluated to be the worst case among Mode 19~35, thus measurement for Mode 36 will follow this same test mode.	
36	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth1+PoE port)



37	EUT 3_R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
38	EUT 3_R2:5GHz UNII 2C-3+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
39	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
40	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
41	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
42	EUT 3_R2:5GHz UNII 1,2A+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
43	EUT 3_R2:5GHz UNII 1,2A+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
44	EUT 3_R2:5GHz UNII 2C-3+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
45	EUT 3_R2:5GHz UNII 2C-3+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
46	EUT 3_R4:5GHz UNII 1-3+R5:Zigbee(TX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
47	EUT 3_R4:5GHz UNII 1-3+R5:Zigbee(RX)+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
48	EUT 3_R2:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
Mode 41 has been evaluated to be the worst case among Mode 37~48, thus measurement for Mode 49 will follow this same test mode.	
49	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS+PoE(Powered from Eth1+PoE port)
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 Maximum Output Power
Test Condition	Conducted measurement at transmit chains
1	EUT 1_R2:4T1S
2	EUT 1_R3:4T1S
3	EUT 1_R4:2T1S
4	EUT 2_R2:4T1S
5	EUT 2_R3:4T1S
6	EUT 2_R4:2T1S
7	EUT 3_R2:4T1S
8	EUT 3_R3:4T1S
9	EUT 3_R4:2T1S

The Worst Case Mode for Following Conformance Tests	
Tests Item	Power Spectral Density
Test Condition	Conducted measurement at transmit chains
1	EUT 1_R2:4T1S_Full RU
2	EUT 1_R3:4T1S_Full RU
3	EUT 1_R4:2T1S_Full RU
4	EUT 2_R2:4T1S_Full RU
5	EUT 2_R3:4T1S_Full RU
6	EUT 2_R4:2T1S_Full RU
7	EUT 3_R2:4T1S_Full RU
8	EUT 3_R3:4T1S_Full RU
9	EUT 3_R4:2T1S_Full RU
10	EUT 1_R2:4T1S_Multi_RU
11	EUT 1_R3:4T1S_Multi_RU
12	EUT 2_R2:4T1S_Multi_RU
13	EUT 2_R3:4T1S_Multi_RU
14	EUT 3_R2:4T1S_Multi_RU
15	EUT 3_R3:4T1S_Multi_RU



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	Normal Link
For EUT 1~3: - After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report. - The EUT has two powered modes, one is "PoE(Powered from Eth0+PoE port)" mode and the other is "PoE(Powered from Eth1+PoE port)" mode. After evaluating, the worst case was found at "PoE(Powered from Eth0+PoE port)" mode, so the measurement will follow this same test. For EUT 1, 2: The EUTs have 17 modes as below: Mode 1: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS Mode 2: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS Mode 3: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS Mode 4: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R4:2.4GHz+R6:UWB+R7:GPS Mode 5: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS Mode 6: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS Mode 7: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS Mode 8: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R6:UWB+R7:GPS Mode 9: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS Mode 10: EUT_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS Mode 11: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS Mode 12: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS Mode 13: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(TX)+R6:UWB+R7:GPS Mode 14: EUT_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R5:Zigbee(RX)+R6:UWB+R7:GPS Mode 15: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1-4+R5:Zigbee(TX)+R6:UWB+R7:GPS Mode 16: EUT_R1:6GHz UNII 5+R2:5GHz UNII 1-4+R5:Zigbee(RX)+R6:UWB+R7:GPS Mode 17: EUT_R2:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+ R6:UWB+R7:GPS And, from above the worst case was found at Mode 1. So the measurement will follow this same test configuration. For EUT 3: The EUT has 12 modes as below: Mode 1: EUT_R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS Mode 2: EUT_R2:5GHz UNII 2C-3+R4:2.4GHz+R6:UWB+R7:GPS Mode 3: EUT_R2:5GHz UNII 1,2A+R3:2.4GHz+R6:UWB+R7:GPS Mode 4: EUT_R2:5GHz UNII 2C-3+R3:2.4GHz+R6:UWB+R7:GPS Mode 5: EUT_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R5:Bluetooth+R6:UWB+R7:GPS Mode 6: EUT_R2:5GHz UNII 1,2A+R5:Zigbee(TX)+R6:UWB+R7:GPS Mode 7: EUT_R2:5GHz UNII 1,2A+R5:Zigbee(RX)+R6:UWB+R7:GPS Mode 8: EUT_R2:5GHz UNII 2C-3+R5:Zigbee(TX)+R6:UWB+R7:GPS Mode 9: EUT_R2:5GHz UNII 2C-3+R5:Zigbee(RX)+R6:UWB+R7:GPS	



Mode 10: EUT_R2:5GHz UNII 1-3+R5:Zigbee(TX)+R6:UWB+R7:GPS

Mode 11: EUT_R2:5GHz UNII 1-3+R5:Zigbee(RX)+R6:UWB+R7:GPS

Mode 12: EUT_R2:5GHz UNII 1,2A+R5:Bluetooth+ R6:UWB+R7:GPS

And, from above the worst case was found at Mode 1. So the measurement will follow this same test configuration.

1	EUT 1 in Z axis_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
2	EUT 2 in Z axis_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)
3	EUT 3 in Z axis_R2:5GHz UNII 1,2A+R4:2.4GHz+R6:UWB+R7:GPS+PoE(Powered from Eth0+PoE port)

For operating mode 2 is the worst case and it was record in this test report.



Operating Mode > 1GHz	CTX
After evaluating, the worst-case axis was found as below. So the measurement will follow this same test configuration.	
1	EUT 1 in Z axis for bandedge / in Y axis for harmonic_R2:4T1S_Full RU
2	EUT 1 in Y axis_R3:4T1S_Full RU
3	EUT 1 in Z axis_R4:2T1S
4	EUT 2 in Y axis_R2:4T1S_Full RU
5	EUT 2 in Y axis_R3:4T1S_Full RU
6	EUT 2 in Y axis_R4:2T1S
7	EUT 3 in Z axis_R2:4T1S_Full RU
8	EUT 3 in Z axis_R3:4T1S_Full RU
9	EUT 3 in Y axis_R4:2T1S
10	EUT 1 in Z axis for bandedge / in Y axis for harmonic_R2:4T1S_Multi_RU
11	EUT 1 in Y axis_R3:4T1S_Multi_RU
12	EUT 2 in Y axis_R2:4T1S_Multi_RU
13	EUT 2 in Y axis_R3:4T1S_Multi_RU
14	EUT 3 in Z axis_R2:4T1S_Multi_RU
15	EUT 3 in Z axis_R3:4T1S_Multi_RU

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT 3 in Z axis_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz
2	EUT 3 in Z axis_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-3
3	EUT 3 in Z axis_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:2.4GHz
4	EUT 3 in Z axis_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:5GHz UNII 1-3
5	EUT 3 in Z axis_R2:5GHz UNII 2C-3+5GHz UNII 1,2A+R4:2.4GHz
6	EUT 3 in Z axis_R2:5GHz UNII 2C-3+5GHz UNII 1,2A+R4:5GHz UNII 1-3
For operating mode 4 is the worst case and it was record in this test report.	
Refer to Appendix F for Radiated Emission Co-location.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Bluetooth +R6:UWB
2	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
3	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
4	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth +R6:UWB
5	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
6	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
7	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee +R6:UWB
8	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
9	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
10	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+ R6:UWB
11	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
12	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
13	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth +R6:UWB
14	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
15	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
16	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth +R6:UWB
17	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
18	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB



19	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
20	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
21	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
22	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
23	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
24	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
25	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
26	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
27	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
28	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB
29	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
30	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
31	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Bluetooth+R6:UWB
32	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
33	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB
34	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+R5:Zigbee+R6:UWB
35	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+R5:Zigbee+R6:UWB
36	EUT 1_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+R5:Zigbee+R6:UWB
37	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+R5:Bluetooth+R6:UWB
38	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+R5:Bluetooth+R6:UWB
39	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+R5:Bluetooth+R6:UWB



40	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Zigbee+R6:UWB
41	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
42	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
43	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
44	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
45	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
46	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Zigbee+R6:UWB
47	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
48	EUT 1_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
49	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Bluetooth +R6:UWB
50	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
51	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
52	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth +R6:UWB
53	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
54	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
55	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee +R6:UWB
56	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
57	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
58	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+ R6:UWB
59	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
60	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB



61	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
62	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
63	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
64	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
65	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
66	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
67	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
68	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
69	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 1,2A+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
70	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+ R4:2.4GHz+R5:Zigbee+R6:UWB
71	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
72	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:2.4GHz+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
73	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
74	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
75	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
76	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Zigbee+R6:UWB
77	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
78	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
79	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
80	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
81	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB



82	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+ R4:2.4GHz+ R5:Zigbee+R6:UWB
83	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
84	EUT 2_R1:6GHz UNII 6-8+R2:5GHz UNII 2C-4+R3:5GHz UNII 1,2A+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
85	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
86	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
87	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
88	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Zigbee+R6:UWB
89	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
90	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 1,2A+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
91	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Bluetooth+R6:UWB
92	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Bluetooth+R6:UWB
93	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Bluetooth+R6:UWB
94	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+ R4:2.4GHz+ R5:Zigbee+R6:UWB
95	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:5GHz UNII 1-4+ R5:Zigbee+R6:UWB
96	EUT 2_R1:6GHz UNII 5+R2:5GHz UNII 2C-4+R3:6GHz UNII 7,8+R4:6GHz UNII 5-8+ R5:Zigbee+R6:UWB
97	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
98	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
99	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:2.4GHz+R5:Bluetooth+R6:UWB
100	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
101	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
102	EUT 3_R2:5GHz UNII 1,2A+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB
103	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:2.4GHz+R5:Zigbee+R6:UWB
104	EUT 3_R2:5GHz UNII 2C-3+R3:2.4GHz+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB



105	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:2.4GHz+R5:Bluetooth+R6:UWB
106	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-3+R5:Bluetooth+R6:UWB
107	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:2.4GHz+R5:Zigbee+R6:UWB
108	EUT 3_R2:5GHz UNII 2C-3+R3:5GHz UNII 1,2A+R4:5GHz UNII 1-3+R5:Zigbee+R6:UWB
Refer to Sporton Test Report No.: FA4O0708 for Co-location RF Exposure Evaluation.	

Note1: R means Radio.

Note2: The PoE is for measurement only, would not be marketed.

The information of PoE as below:

Power	Brand Name	Model Name
PoE	PHIHONG	POE60U-BTA

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
Bracket*1
Antenna Bracket of Ant. 1 (Used for EUT 3) Note

Note: Optional, not sold with EUT.

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHIHONG	POE60U-BTA	N/A
B	Flash disk3.0	Transcend	JetFlash-703	N/A
C	ETH0 PC	ASUS	S300TA	TX2-RTL8821CE
D	ETH1 PC	ASUS	S300TA	TX2-RTL8821CE
E	6GH NB	DELL	E6230	N/A
F	5GH NB	DELL	E6430	N/A
G	2.4G NB	DELL	E6430	N/A
H	6G module	INTEL	BE200	PD9BE200NG
I	GPS Simulator	WELNAVIGATE	GS-100	N/A
J	Device	Juniper	AP47	N/A
K	Device PC	ASUS	S300TA	TX2-RTL8821CE

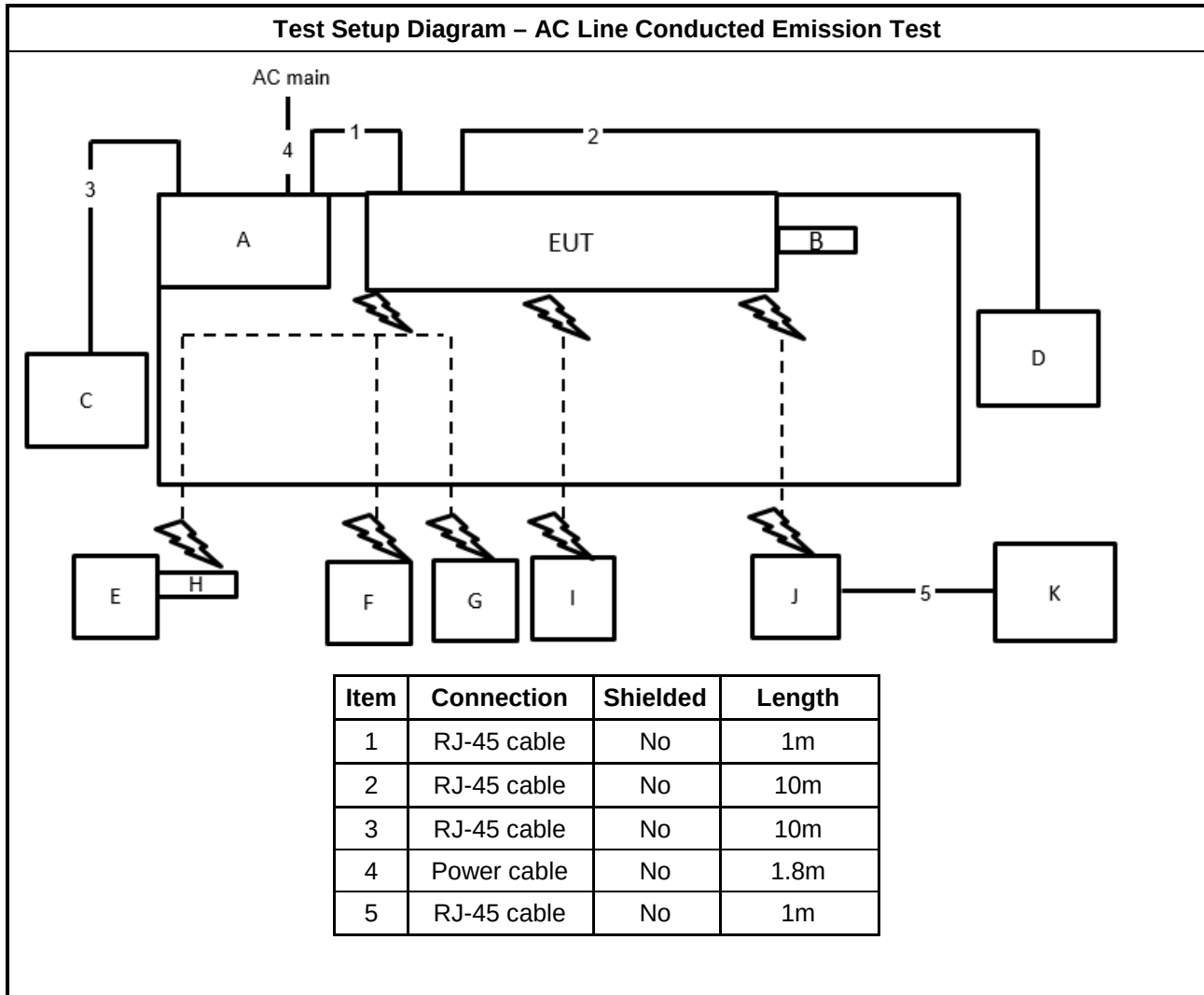
**For Radiated (below 1GHz):**

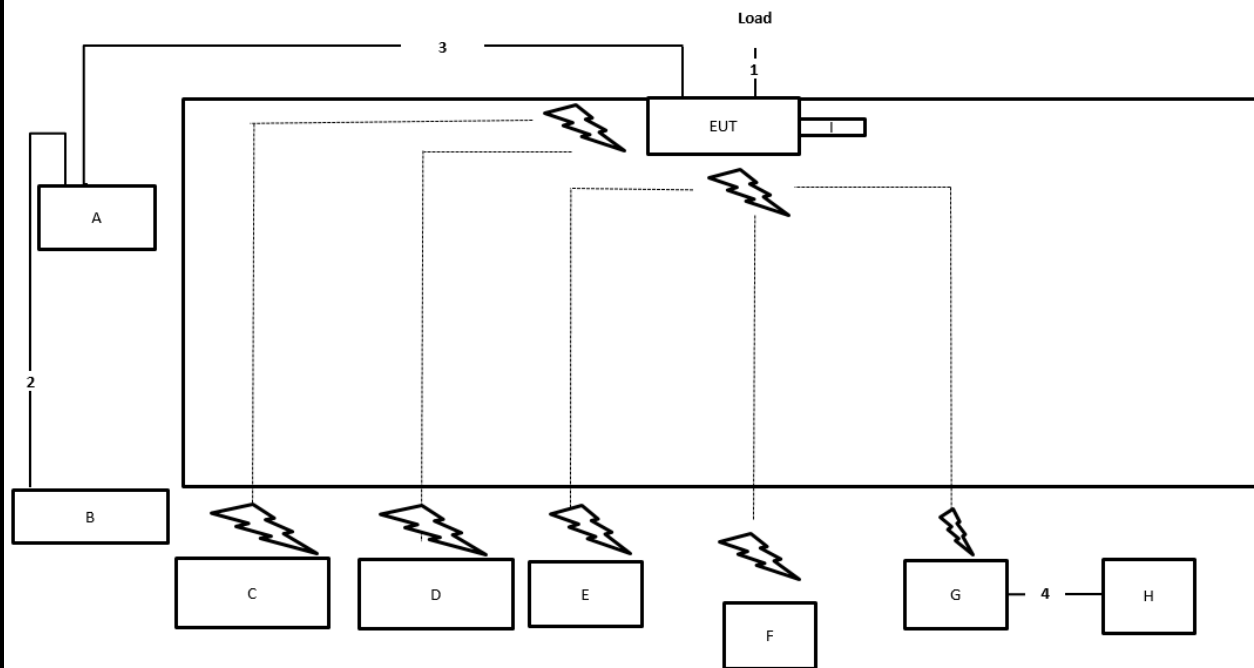
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	PHIHONG	POE60U-BTA	N/A
B	10G PC	DELL	T3400	N/A
C	2.4G NB	DELL	E4300	N/A
D	5G NB	DELL	E4300	N/A
E	6G NB	DELL	E4300	N/A
F	GPS Simulator	WELNAVIGATE	GS-100	N/A
G	Device	Juniper	AP47	N/A
H	10G PC	DELL	T3400	N/A
I	Flash disk3.0	Silicon Power	B06	N/A

For Radiated (above 1GHz) and RF Conducted:

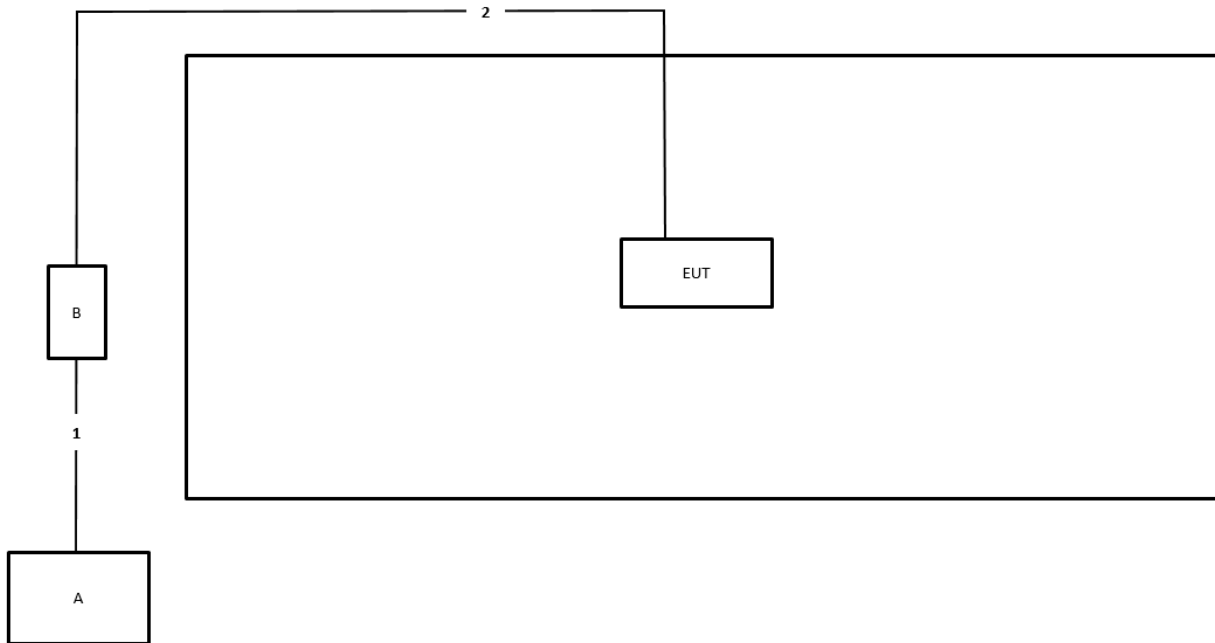
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	PHIHONG	POE60U-BTA	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable(Load*1)	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

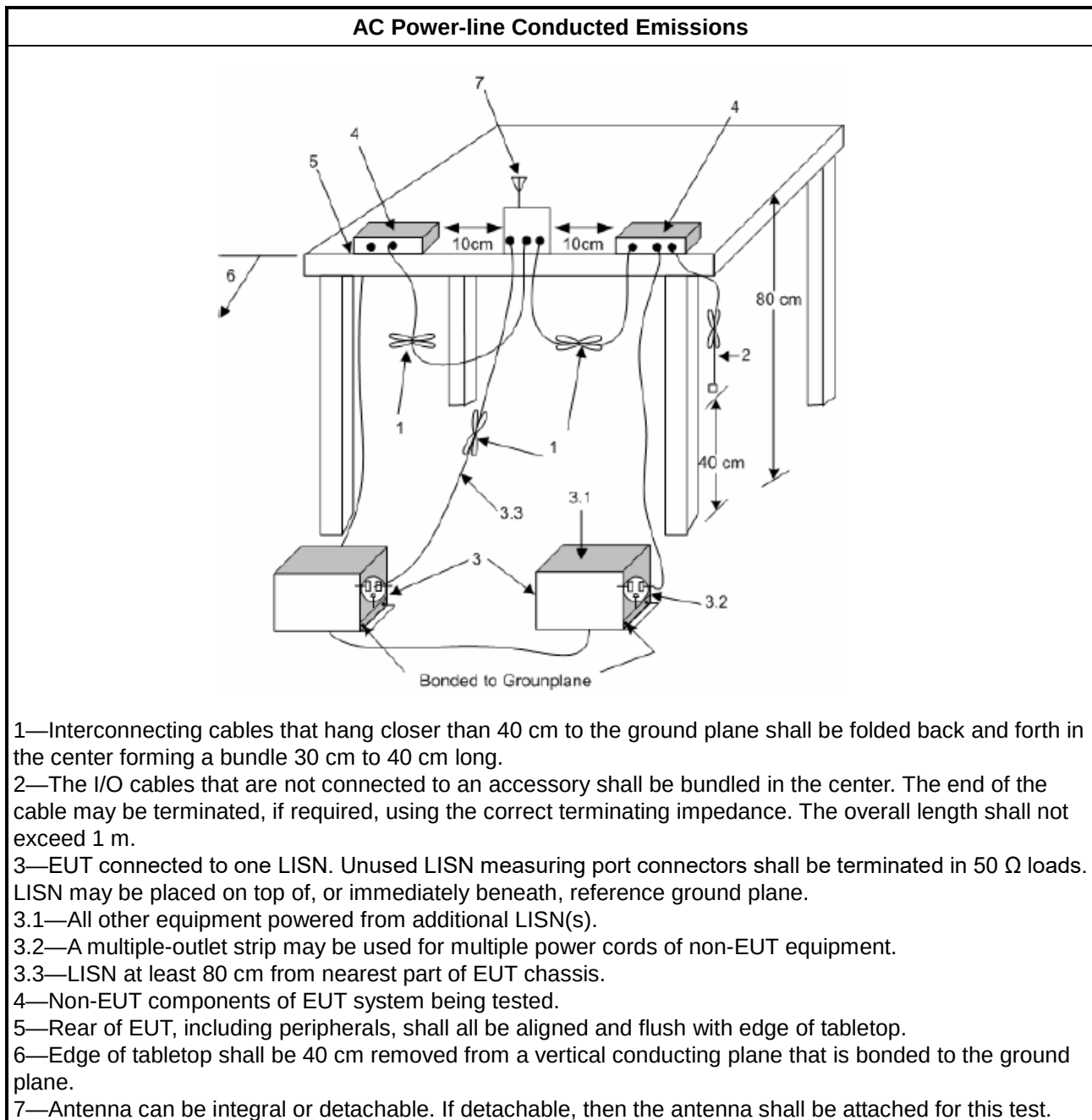
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth $\geq 500\text{kHz}$.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq 500\text{kHz}$.

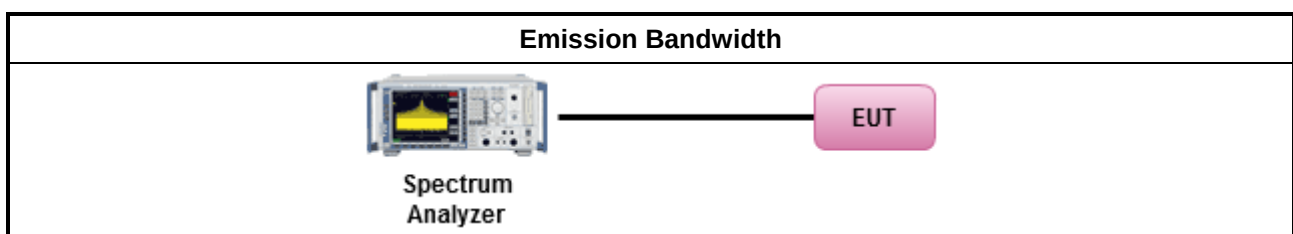
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 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 Output Power

3.3.1 Limit

Maximum Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band:	
	- For other devices: The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. - Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐ For the 5.25-5.35 GHz band:	
	- For other devices: The maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz - Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
☐ For the 5.725-5.85 GHz band:	

	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.
	Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

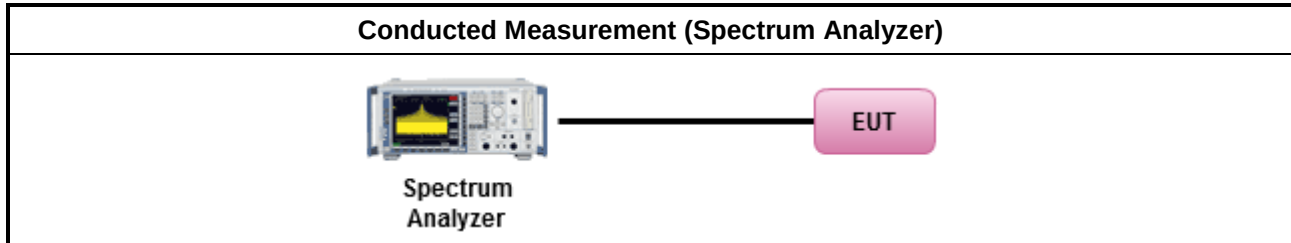
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

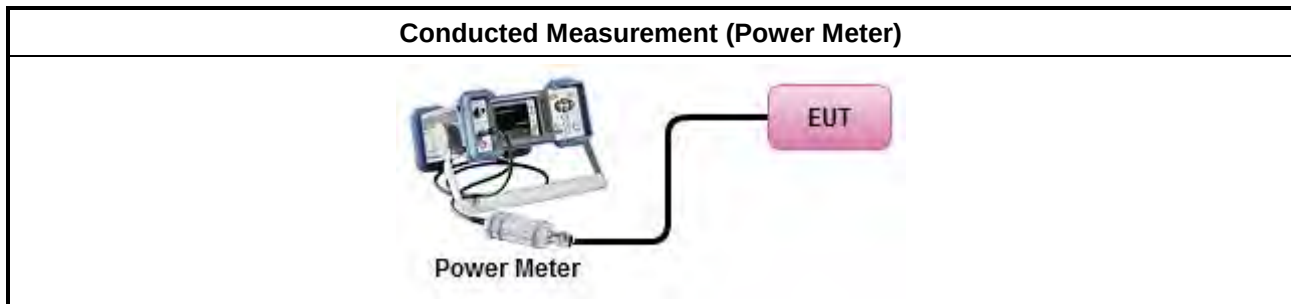
Test Method	
	Average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging). For Straddle channel
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter). For Other test
☒ 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

For Straddle channel



For Other test



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.4.2 Measuring Instruments

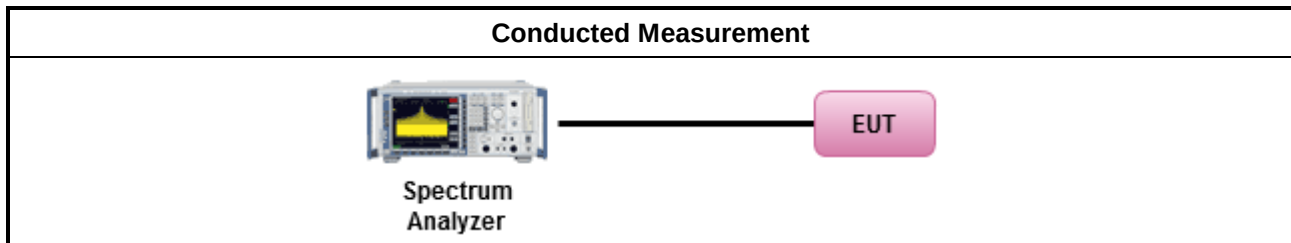
Refer a test equipment and calibration data table in this test report.

**3.4.3 Test Procedures**

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033 D02, F5) 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 Power Spectral Density

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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: 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).

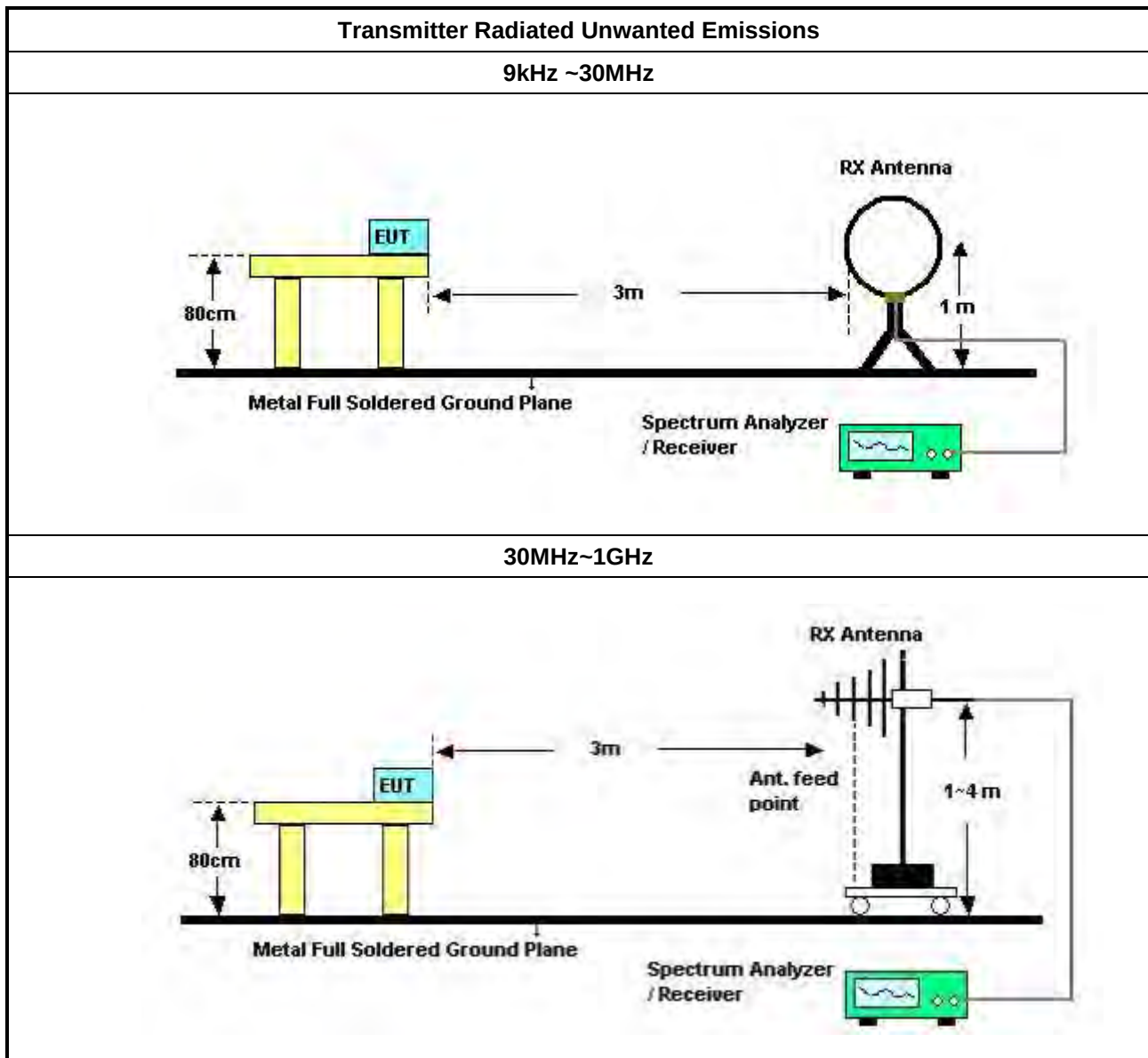
3.5.2 Measuring Instruments

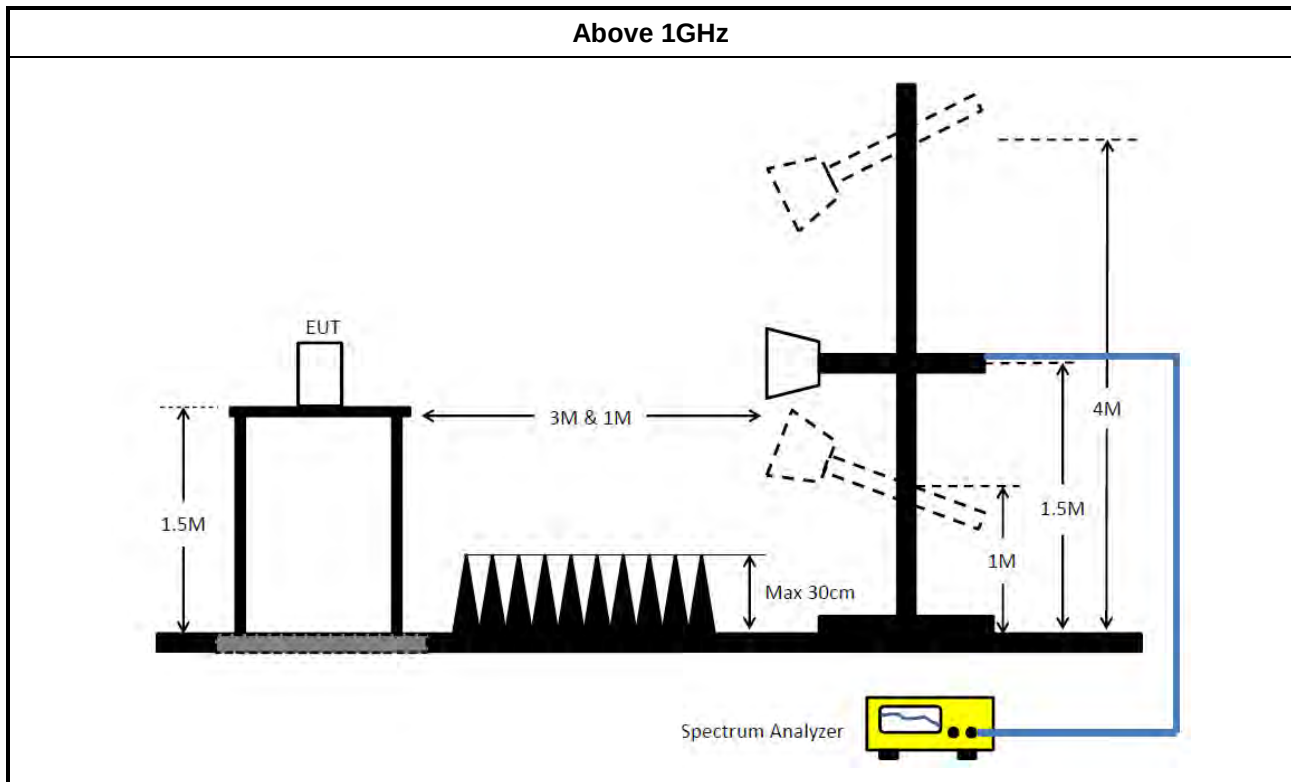
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033 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).
	☒ 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.
	☐ 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.	
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



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Apr. 15, 2024	Apr. 14, 2025	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 15, 2024	May 14, 2025	Conduction (CO02-CB)
COND Cable	Woken	Cable	02	0.15MHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO02-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 24, 2024	Mar. 23, 2025	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 12, 2024	Apr. 11, 2025	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV3044	101536	10kHz ~ 44GHz	Aug. 14, 2024	Aug. 13, 2025	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 03, 2024	May 02, 2025	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 24, 2024	Jan. 23, 2025	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 22, 2024	Feb. 21, 2025	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jul. 11, 2024	Jul. 10, 2025	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 17, 2024	Jan. 16, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 19, 2024	Mar. 18, 2025	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 01, 2024	Jul. 31, 2025	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 28, 2024	Sep. 27, 2025	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCi	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 23, 2024	Mar. 22, 2025	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2024	May 01, 2025	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 17, 2024	Apr. 16, 2025	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 08, 2024	Oct. 07, 2025	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH06-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 18GHz	Jul. 31, 2024	Jul. 30, 2025	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2024	May 26, 2025	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~18 GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
Cable 9k-18G	Woken	RG402	Cable-95	9 kHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Mar. 01, 2024	Feb. 28, 2025	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	MY45100745	50MHz~18GHz	Jul. 12, 2024	Jul. 11, 2025	Conducted (TH01-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 27, 2024	Aug. 26, 2025	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 18, 2024	Oct. 17, 2025	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 18, 2024	Oct. 17, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1~18 GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH02-CB)
Test Software	SPORTON	SENSE-15407_NII	V5.11. 23	5.15GHz-7.115GHz	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

NCR means Non-Calibration required.



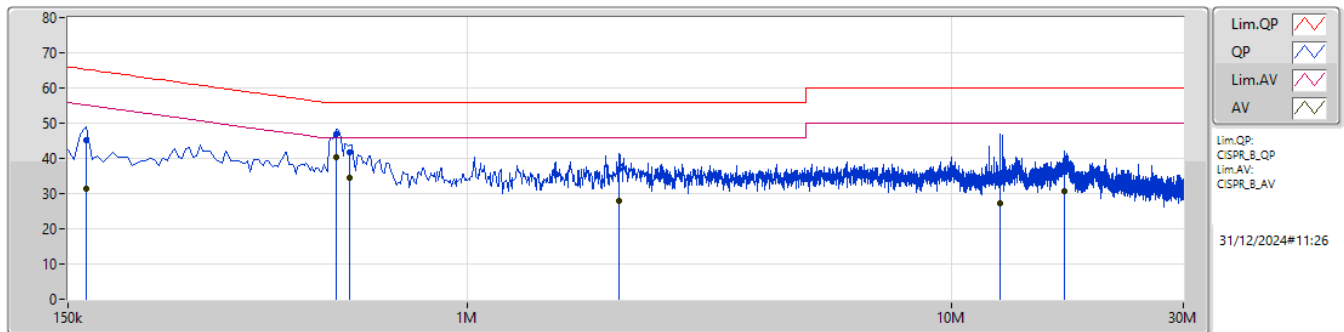
Conducted Emissions at Powerline

Appendix A

Summary

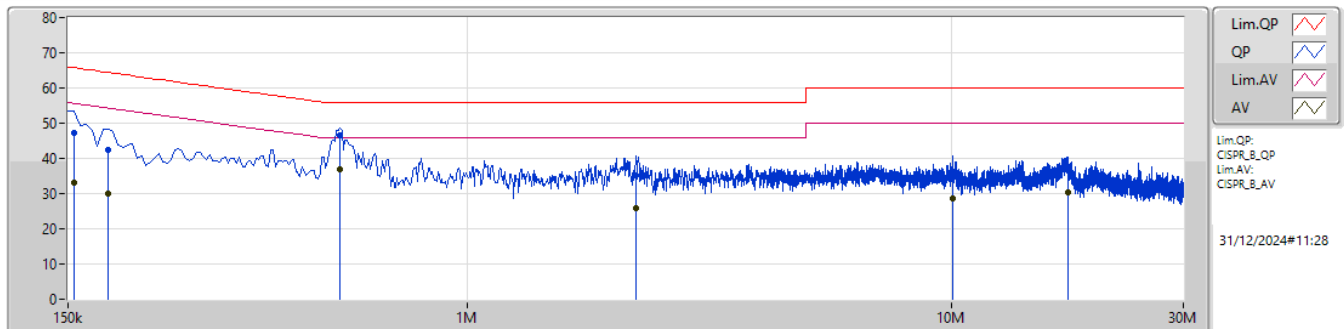
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 8	Pass	AV	537k	40.48	46.00	-5.52	Line

Mode 8



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	163.5k	45.28	65.27	-19.99	10.15	Line	-	35.13	0.05	0.08	10.02						
AV	163.5k	31.53	55.27	-23.74	10.15	Line	-	21.38	0.05	0.08	10.02						
QP	537k	46.85	56.00	-9.15	10.19	Line	-	36.66	0.06	0.10	10.03						
AV	537k	40.48	46.00	-5.52	10.19	Line	"Worst"	30.29	0.06	0.10	10.03						
QP	573k	41.79	56.00	-14.21	10.19	Line	-	31.60	0.06	0.10	10.03						
AV	573k	34.50	46.00	-11.50	10.19	Line	-	24.31	0.06	0.10	10.03						
QP	2.058M	36.96	56.00	-19.04	10.24	Line	-	26.72	0.09	0.14	10.01						
AV	2.058M	27.83	46.00	-18.17	10.24	Line	-	17.59	0.09	0.14	10.01						
QP	12.566M	33.43	60.00	-26.57	10.51	Line	-	22.92	0.30	0.19	10.02						
AV	12.566M	27.33	50.00	-22.67	10.51	Line	-	16.82	0.30	0.19	10.02						
QP	17.039M	37.03	60.00	-22.97	10.65	Line	-	26.38	0.36	0.27	10.02						
AV	17.039M	30.70	50.00	-19.30	10.65	Line	-	20.05	0.36	0.27	10.02						

Mode 8



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	47.41	65.75	-18.34	10.15	Neutral	-	37.26	0.05	0.08	10.02						
AV	154.5k	33.04	55.75	-22.71	10.15	Neutral	-	22.89	0.05	0.08	10.02						
QP	181.5k	42.38	64.41	-22.03	10.14	Neutral	-	32.24	0.05	0.07	10.02						
AV	181.5k	29.89	54.41	-24.52	10.14	Neutral	-	19.75	0.05	0.07	10.02						
QP	546k	46.68	56.00	-9.32	10.18	Neutral	-	36.50	0.05	0.10	10.03						
AV	546k	36.77	46.00	-9.23	10.18	Neutral	"Worst"	26.59	0.05	0.10	10.03						
QP	2.234M	35.34	56.00	-20.66	10.24	Neutral	-	25.10	0.08	0.14	10.02						
AV	2.234M	25.99	46.00	-20.01	10.24	Neutral	-	15.75	0.08	0.14	10.02						
QP	10.05M	35.92	60.00	-24.08	10.37	Neutral	-	25.55	0.21	0.15	10.01						
AV	10.05M	28.56	50.00	-21.44	10.37	Neutral	-	18.19	0.21	0.15	10.01						
QP	17.3M	36.67	60.00	-23.33	10.54	Neutral	-	26.13	0.25	0.27	10.02						
AV	17.3M	30.34	50.00	-19.66	10.54	Neutral	-	19.80	0.25	0.27	10.02						

Test Mode: Mode 1
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.945M	17.108M	17M1D1D	18.81M	16.429M
802.11be EHT20_Nss1,(MCS0)_4TX	37.95M	19.29M	19M3D1D	20.405M	19.012M
802.11be EHT40_Nss1,(MCS0)_4TX	47.85M	37.847M	37M8D1D	39.49M	37.484M
802.11be EHT80_Nss1,(MCS0)_4TX	80.74M	77.095M	77M1D1D	80.08M	76.904M
802.11be EHT160_Nss1,(MCS0)_4TX	80.16M	77.266M	77M3D1D	80M	77.015M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.01M	16.867M	16M9D1D	18.645M	16.376M
802.11be EHT20_Nss1,(MCS0)_4TX	21.56M	19.271M	19M3D1D	20.625M	18.897M
802.11be EHT40_Nss1,(MCS0)_4TX	40.04M	37.967M	38M0D1D	39.05M	37.577M
802.11be EHT80_Nss1,(MCS0)_4TX	81.62M	77.445M	77M4D1D	80.08M	77.027M
802.11be EHT160_Nss1,(MCS0)_4TX	80.16M	77.519M	77M5D1D	80M	77.016M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.955M	16.909M	16M9D1D	14.745M	13.196M
802.11be EHT20_Nss1,(MCS0)_4TX	21.45M	19.046M	19M0D1D	15.33M	14.447M
802.11be EHT40_Nss1,(MCS0)_4TX	40.48M	37.89M	37M9D1D	34.86M	33.604M
802.11be EHT80_Nss1,(MCS0)_4TX	81.4M	77.215M	77M2D1D	74.625M	72.977M
802.11be EHT160_Nss1,(MCS0)_4TX	161.48M	155.549M	156MD1D	161.48M	155.221M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.5M	16.988M	17M0D1D	3.14M	3.758M
802.11be EHT20_Nss1,(MCS0)_4TX	19.14M	19.22M	19M2D1D	4.1M	4.538M
802.11be EHT40_Nss1,(MCS0)_4TX	38.06M	46.266M	46M3D1D	3.96M	4.063M
802.11be EHT80_Nss1,(MCS0)_4TX	77.66M	77.217M	77M2D1D	3.74M	4.068M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.57M	16.732M	19.8M	16.429M	19.91M	16.561M	18.81M	16.55M
5200MHz	Pass	Inf	21.945M	17.108M	20.9M	17.05M	20.9M	16.504M	20.075M	16.657M
5240MHz	Pass	Inf	20.13M	16.563M	21.23M	16.722M	21.23M	16.626M	20.68M	16.508M
5260MHz	Pass	Inf	20.57M	16.599M	20.075M	16.679M	19.36M	16.376M	20.24M	16.436M
5300MHz	Pass	Inf	19.14M	16.791M	18.645M	16.53M	19.085M	16.675M	20.295M	16.424M
5320MHz	Pass	Inf	20.075M	16.634M	21.01M	16.444M	20.02M	16.671M	20.625M	16.867M
5500MHz	Pass	Inf	20.735M	16.549M	20.35M	16.685M	19.91M	16.422M	19.47M	16.603M
5580MHz	Pass	Inf	20.955M	16.778M	19.965M	16.566M	19.745M	16.504M	20.68M	16.558M
5700MHz	Pass	Inf	20.295M	16.787M	18.59M	16.909M	19.965M	16.56M	19.195M	16.395M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.925M	13.385M	15M	13.235M	15.57M	13.196M	14.745M	13.224M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.758M	3.14M	3.945M	3.18M	3.981M	3.18M	4.043M
5745MHz	Pass	500k	16.335M	16.988M	16.445M	16.67M	16.445M	16.734M	16.17M	16.888M
5785MHz	Pass	500k	16.5M	16.459M	16.335M	16.629M	15.95M	16.464M	16.225M	16.54M
5825MHz	Pass	500k	16.335M	16.621M	16.39M	16.443M	16.335M	16.392M	16.28M	16.507M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.45M	19.012M	21.175M	19.04M	21.505M	19.121M	21.01M	19.223M
5200MHz	Pass	Inf	20.735M	19.105M	20.79M	19.049M	20.405M	19.075M	24.915M	19.174M
5240MHz	Pass	Inf	33.935M	19.29M	33.66M	19.244M	37.95M	19.286M	31.35M	19.197M
5260MHz	Pass	Inf	21.34M	18.971M	21.01M	19.054M	21.065M	18.931M	21.285M	19.008M
5300MHz	Pass	Inf	21.01M	18.967M	21.56M	19.078M	20.68M	19.271M	20.625M	19.013M
5320MHz	Pass	Inf	20.79M	18.897M	21.065M	18.977M	21.065M	18.994M	20.845M	18.963M
5500MHz	Pass	Inf	21.285M	19.041M	21.45M	18.961M	21.395M	19.03M	21.065M	19.046M
5580MHz	Pass	Inf	21.065M	18.911M	20.845M	19.034M	21.065M	18.952M	20.57M	19.041M
5700MHz	Pass	Inf	20.955M	18.959M	21.065M	18.942M	21.175M	19.024M	21.065M	19.043M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.39M	14.461M	15.345M	14.451M	15.33M	14.599M	15.555M	14.447M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.46M	4.575M	4.1M	4.553M	4.52M	4.538M	4.52M	4.541M
5745MHz	Pass	500k	18.92M	19.22M	18.92M	19.087M	18.975M	19.012M	17.82M	19.121M
5785MHz	Pass	500k	19.14M	19.048M	19.085M	18.959M	18.59M	18.978M	18.645M	18.983M
5825MHz	Pass	500k	19.085M	19.087M	18.865M	18.935M	18.26M	19.082M	19.085M	19.032M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.49M	37.731M	39.82M	37.807M	39.6M	37.665M	39.82M	37.484M
5230MHz	Pass	Inf	40.26M	37.847M	40.04M	37.833M	39.49M	37.689M	47.85M	37.76M
5270MHz	Pass	Inf	40.04M	37.577M	39.71M	37.967M	39.93M	37.781M	39.05M	37.942M
5310MHz	Pass	Inf	39.49M	37.617M	39.16M	37.777M	39.16M	37.71M	39.6M	37.74M
5510MHz	Pass	Inf	40.04M	37.709M	40.15M	37.659M	40.15M	37.89M	40.04M	37.503M
5550MHz	Pass	Inf	40.48M	37.697M	39.71M	37.476M	39.49M	37.741M	40.15M	37.747M
5670MHz	Pass	Inf	39.38M	37.623M	38.94M	37.879M	39.6M	37.674M	39.82M	37.822M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.07M	33.764M	34.86M	33.604M	35.07M	33.664M	34.93M	33.817M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	4.097M	4.08M	4.073M	4.02M	4.073M	3.98M	4.063M
5755MHz	Pass	500k	37.62M	37.995M	38.06M	38.088M	37.84M	37.869M	37.84M	37.935M
5795MHz	Pass	500k	37.62M	46.266M	37.73M	38.326M	37.18M	38.36M	37.4M	42.722M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.08M	77.095M	80.74M	77.071M	80.52M	77.042M	80.74M	76.904M
5290MHz	Pass	Inf	80.08M	77.445M	81.62M	77.188M	80.96M	77.027M	80.74M	77.063M
5530MHz	Pass	Inf	80.3M	77.157M	80.08M	76.618M	81.4M	77.215M	80.08M	76.959M
5610MHz	Pass	Inf	81.18M	77.169M	80.08M	76.998M	81.18M	76.621M	81.18M	76.974M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.825M	73.177M	74.775M	73.119M	74.625M	73.234M	75.3M	72.977M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	4.089M	3.74M	4.107M	4.02M	4.068M	3.82M	4.139M
5775MHz	Pass	500k	77.22M	76.551M	75.9M	77.217M	77.66M	77.118M	77.22M	77.196M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.16M	77.015M	80M	77.266M	80M	77.159M	80.16M	77.188M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80M	77.519M	80.16M	77.016M	80M	77.411M	80M	77.292M
5570MHz	Pass	Inf	161.48M	155.549M	161.48M	155.286M	161.48M	155.221M	161.48M	155.237M

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

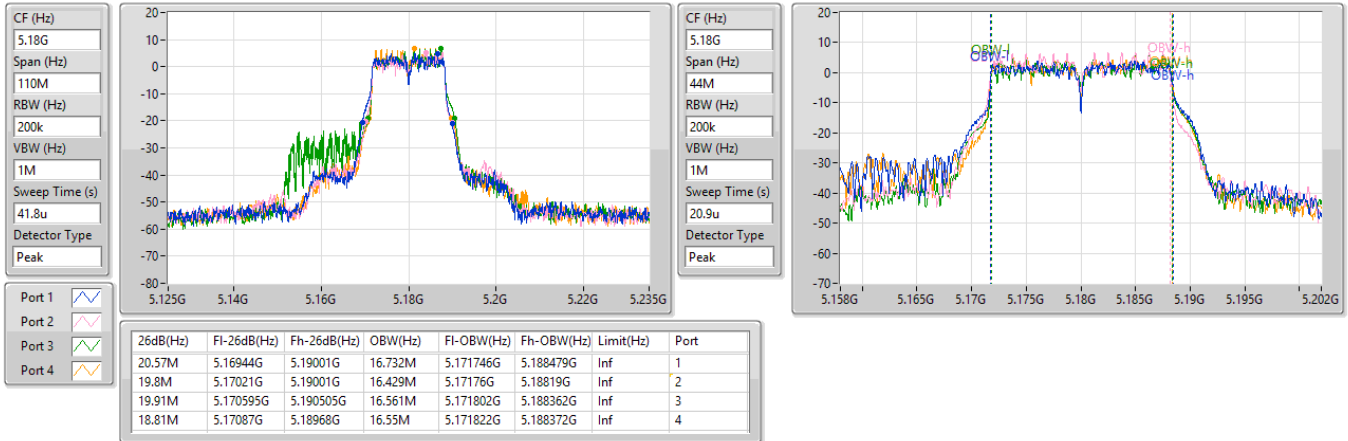
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

26/11/2024

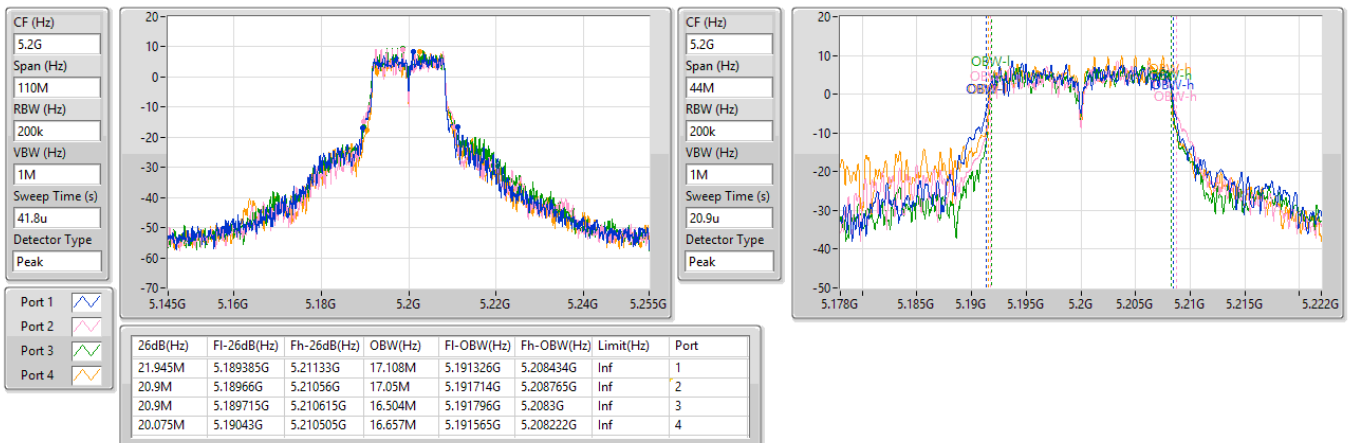


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

26/11/2024

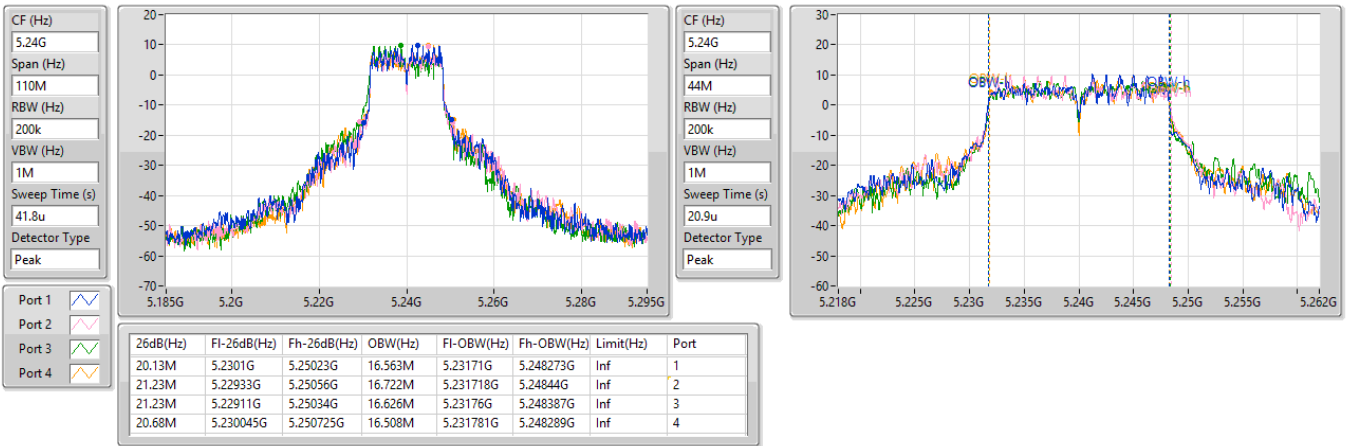


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

26/11/2024

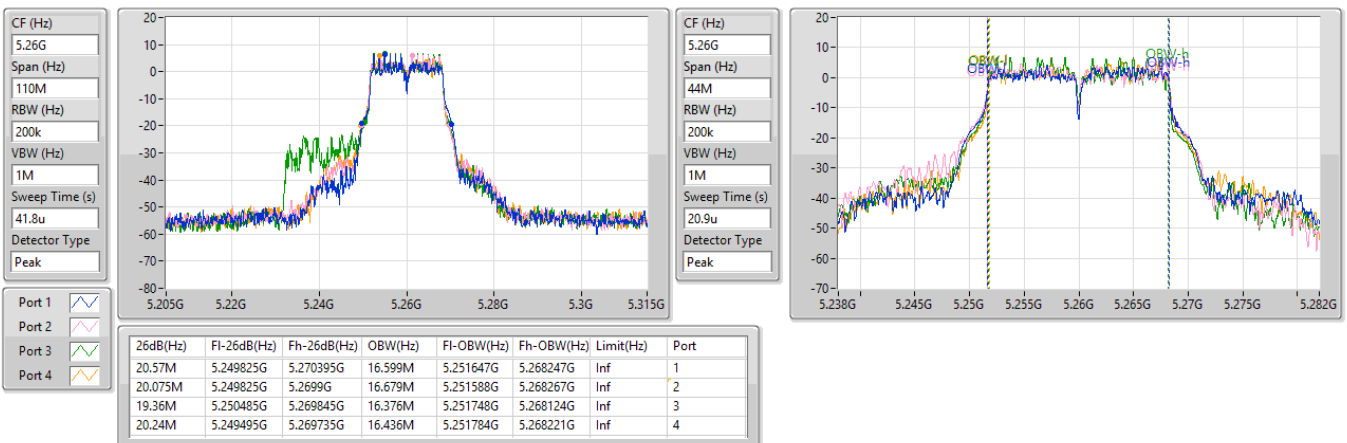


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5260MHz

26/11/2024

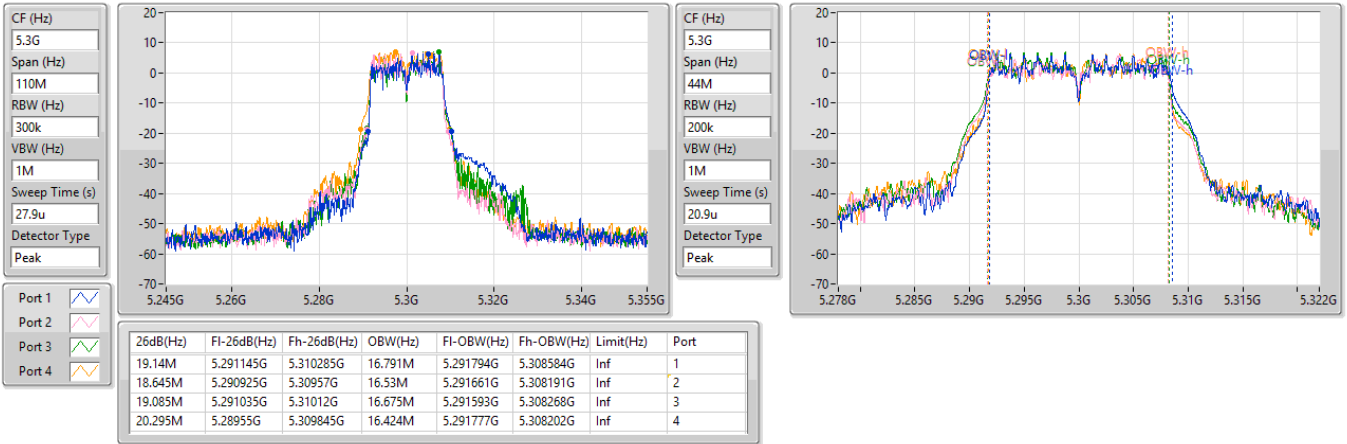


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5300MHz

26/11/2024

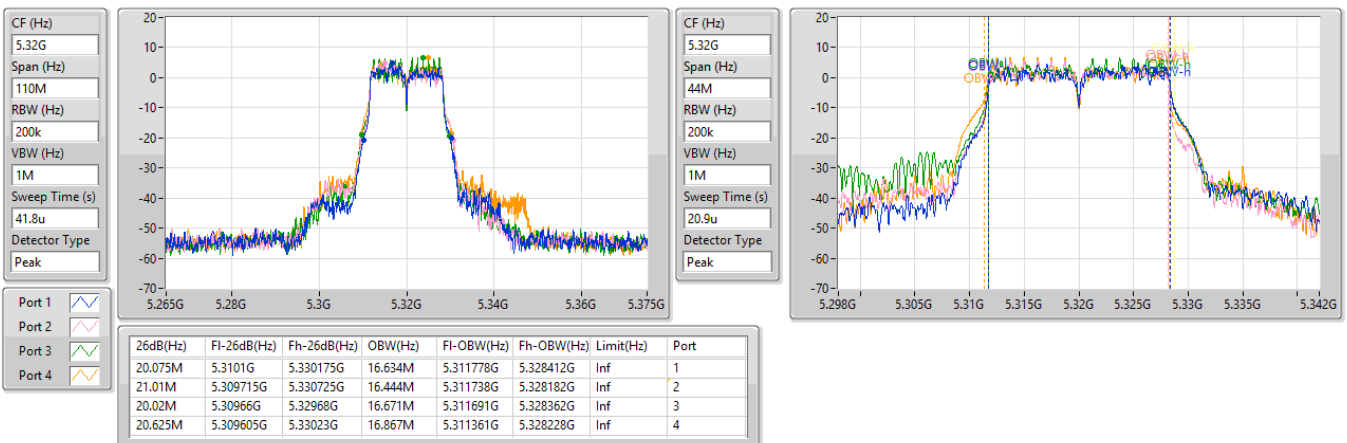


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5320MHz

26/11/2024

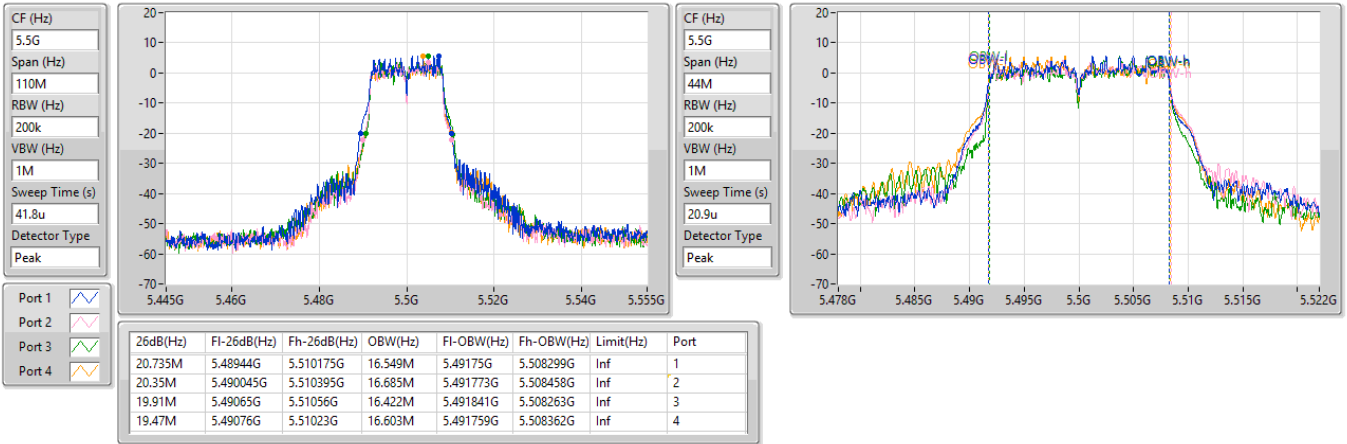


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5500MHz

26/11/2024

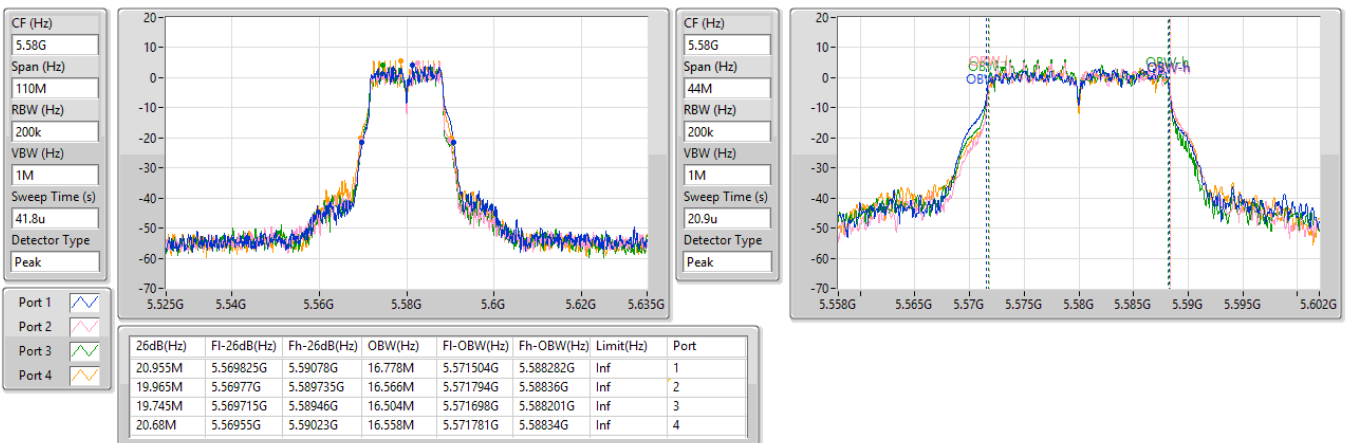


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5580MHz

26/11/2024

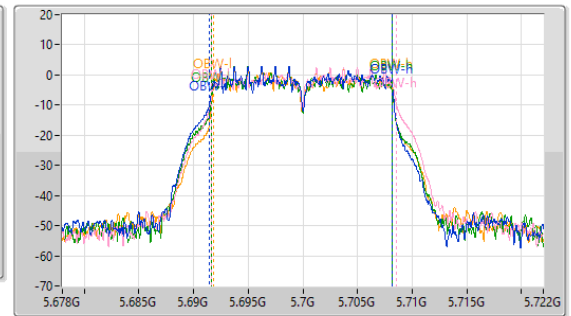
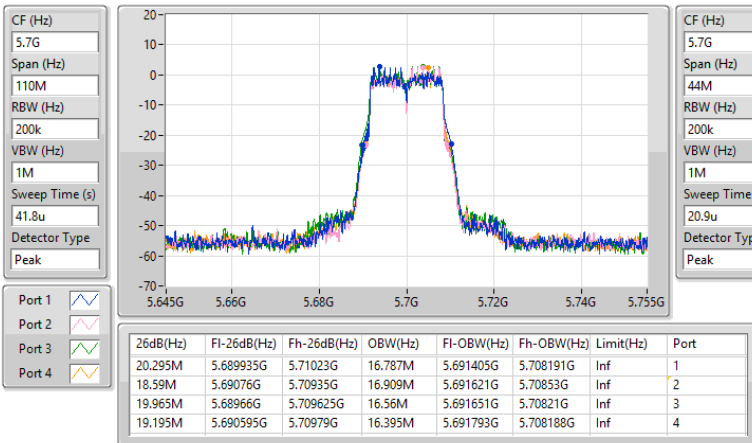


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5700MHz

26/11/2024

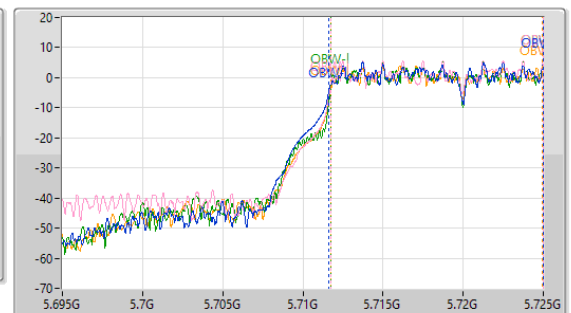
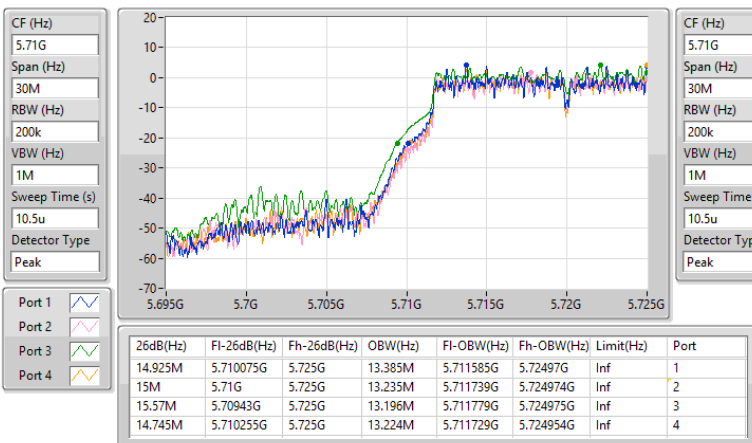


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

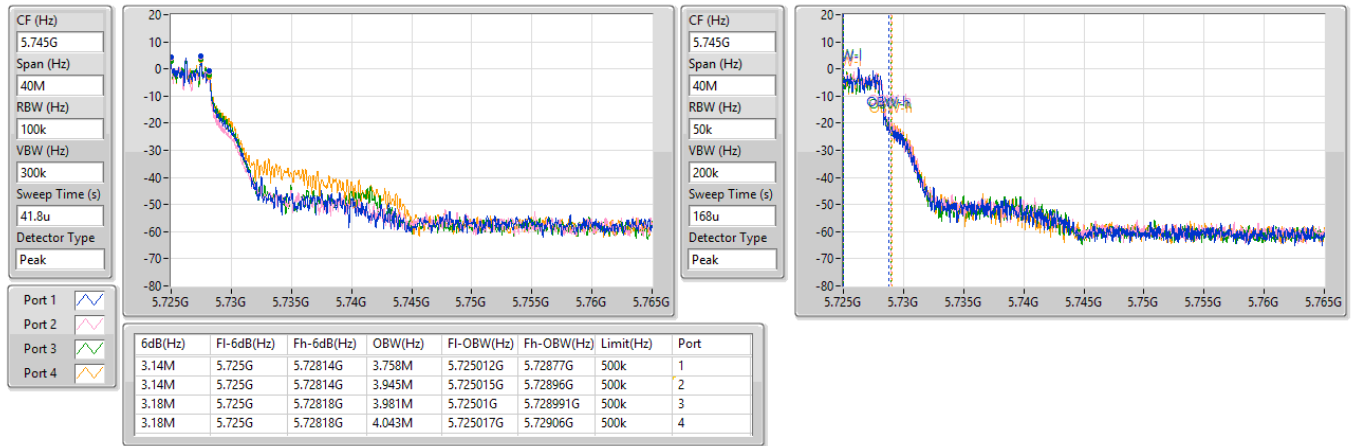
5720MHz Straddle 5.47-5.725GHz

26/11/2024

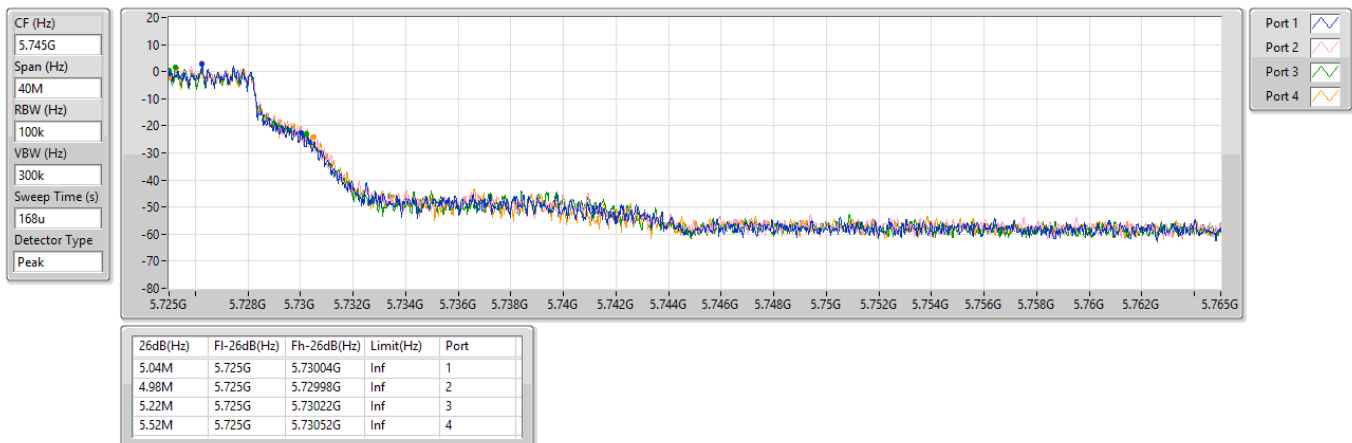


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/11/2024


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

26/11/2024

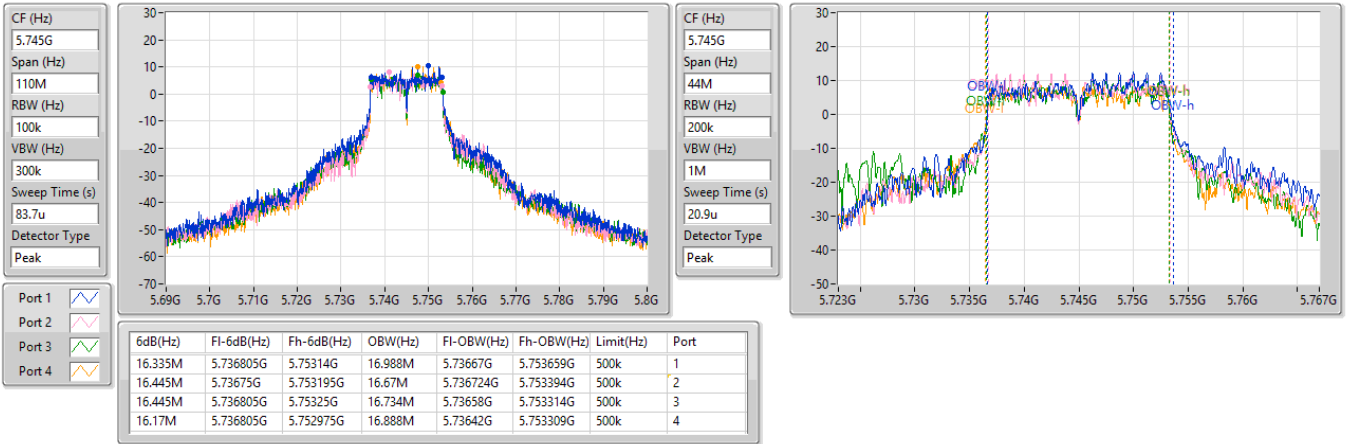


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

26/11/2024

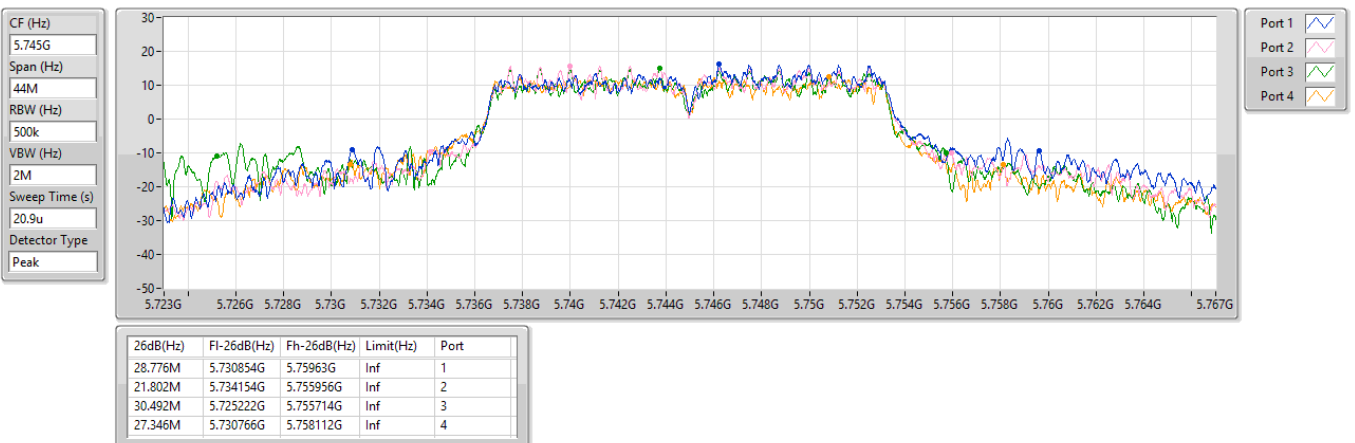


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

26/11/2024

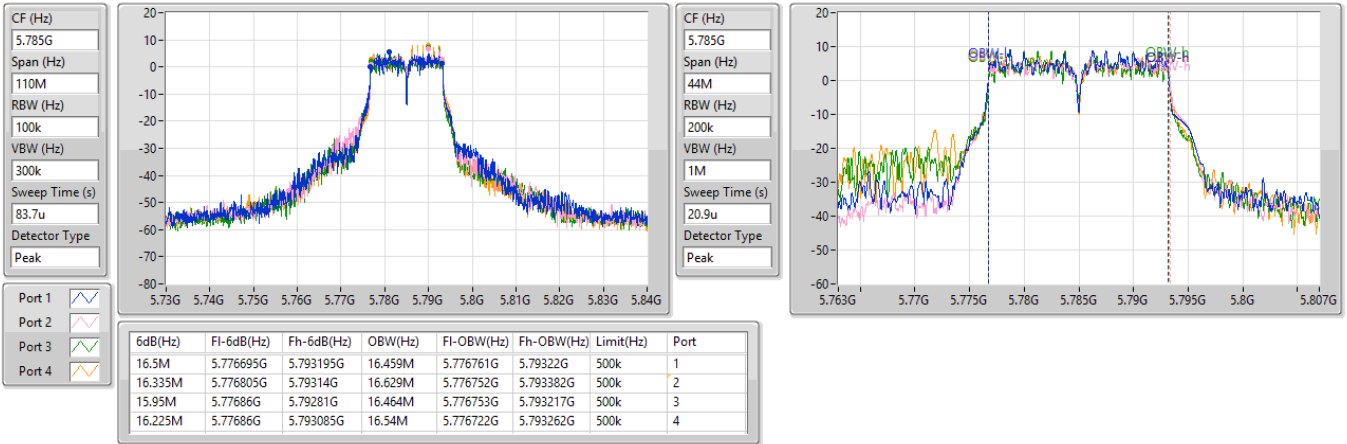


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

26/11/2024

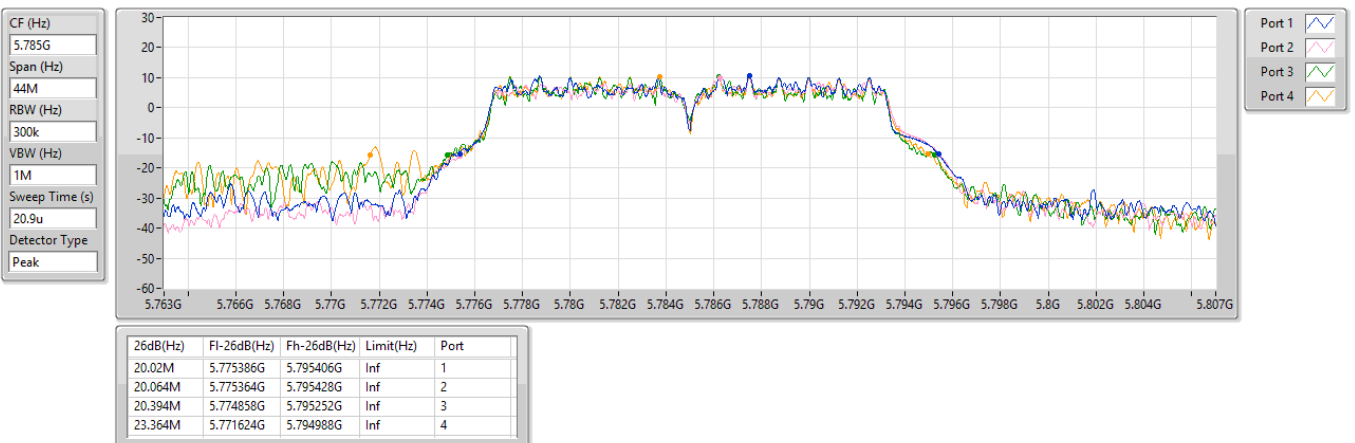


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

26/11/2024

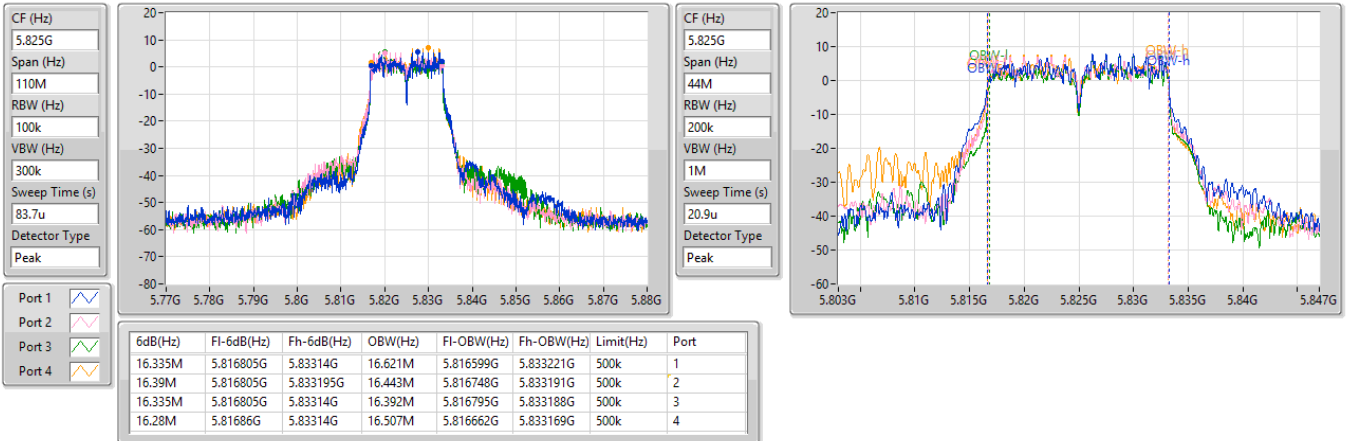


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

26/11/2024

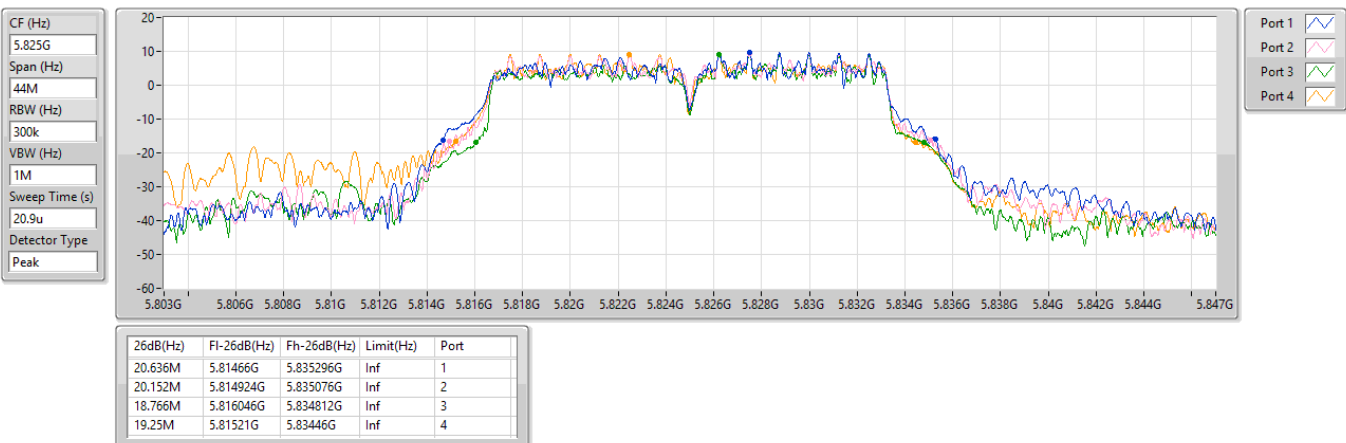


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

26/11/2024

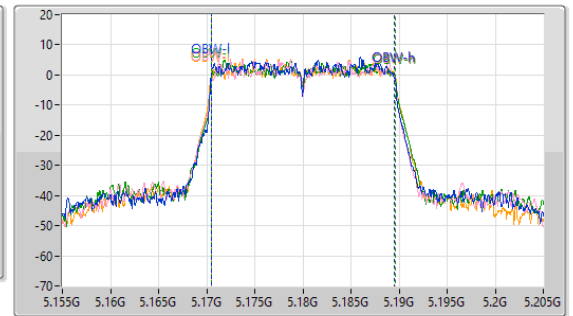
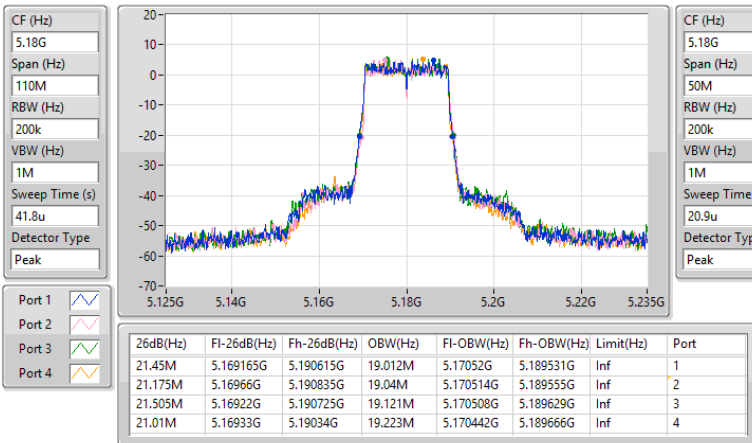


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

26/11/2024

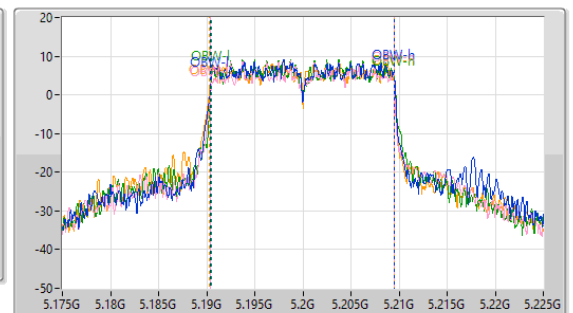
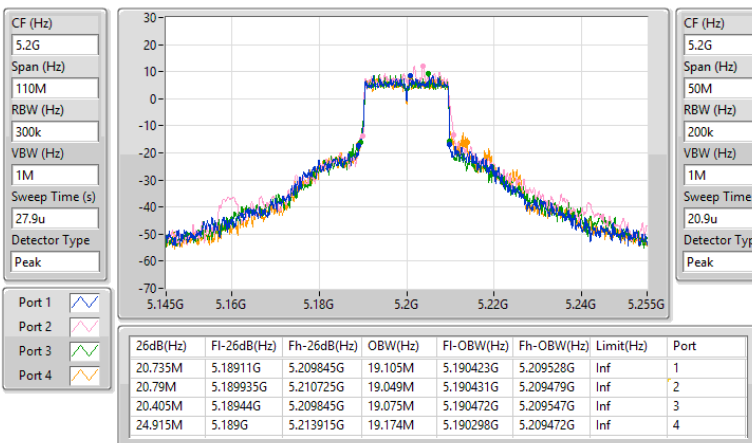


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

26/11/2024

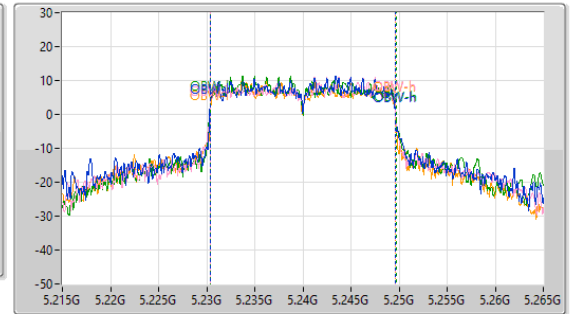
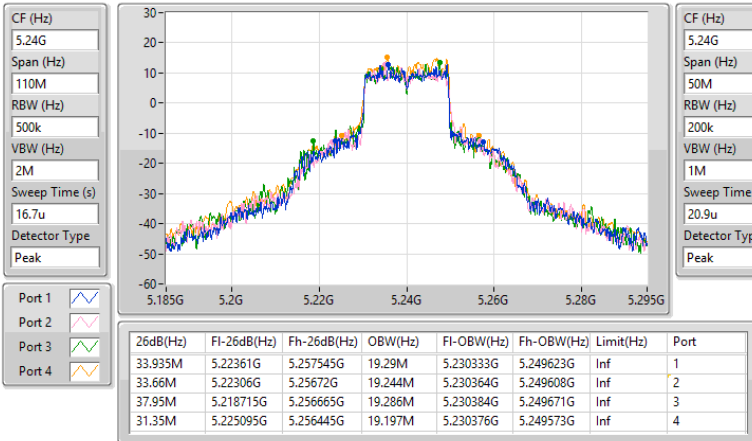


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5240MHz

26/11/2024

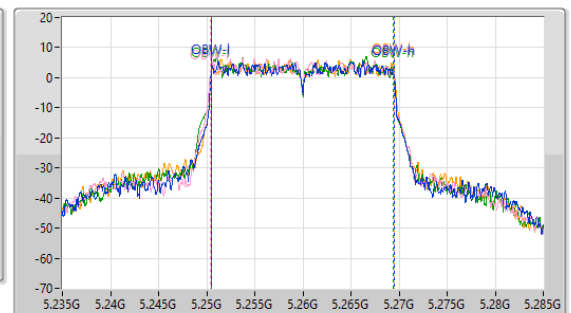
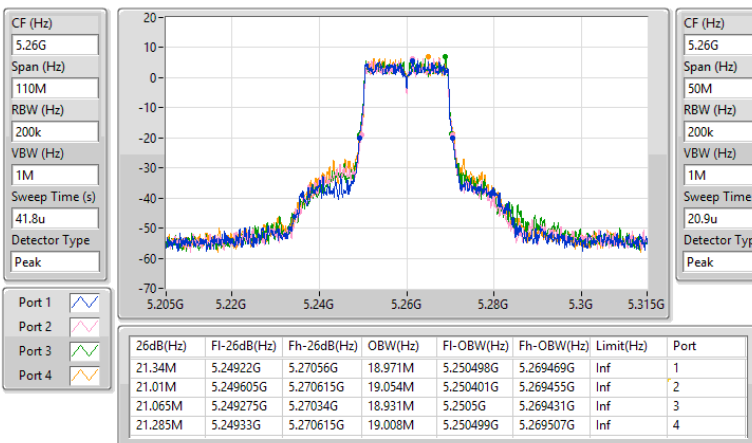


5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5260MHz

26/11/2024

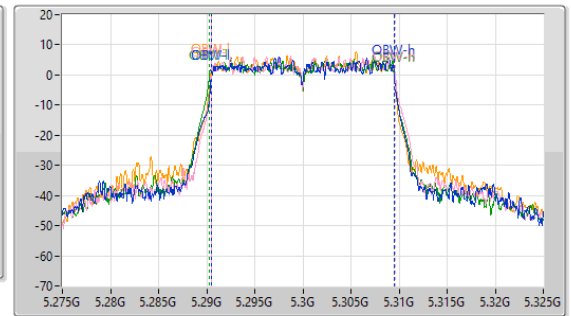
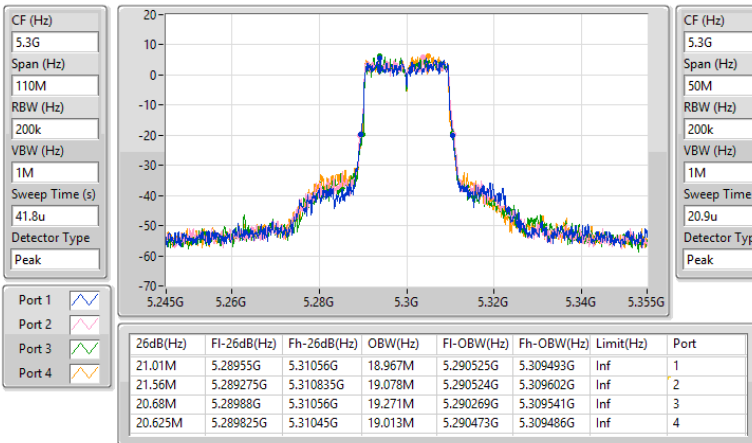


5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5300MHz

26/11/2024

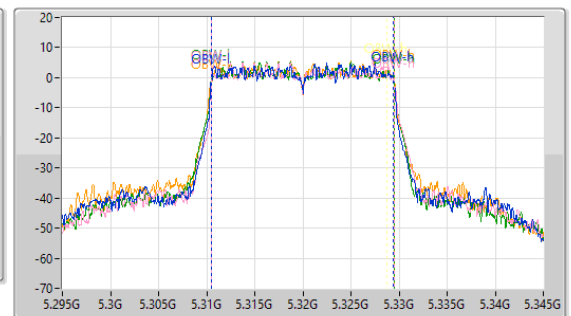
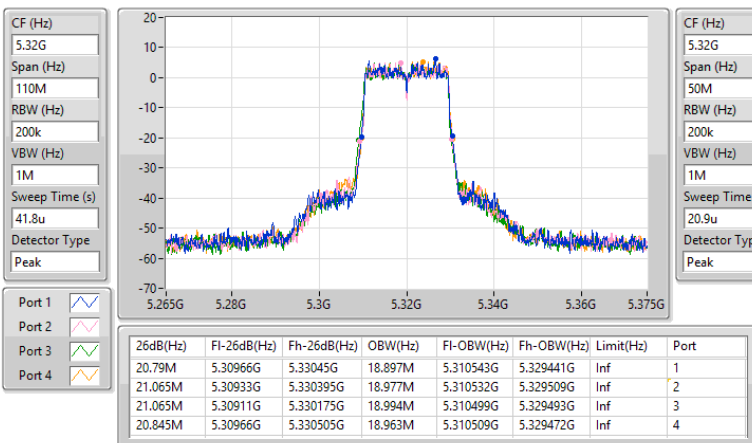


5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5320MHz

26/11/2024

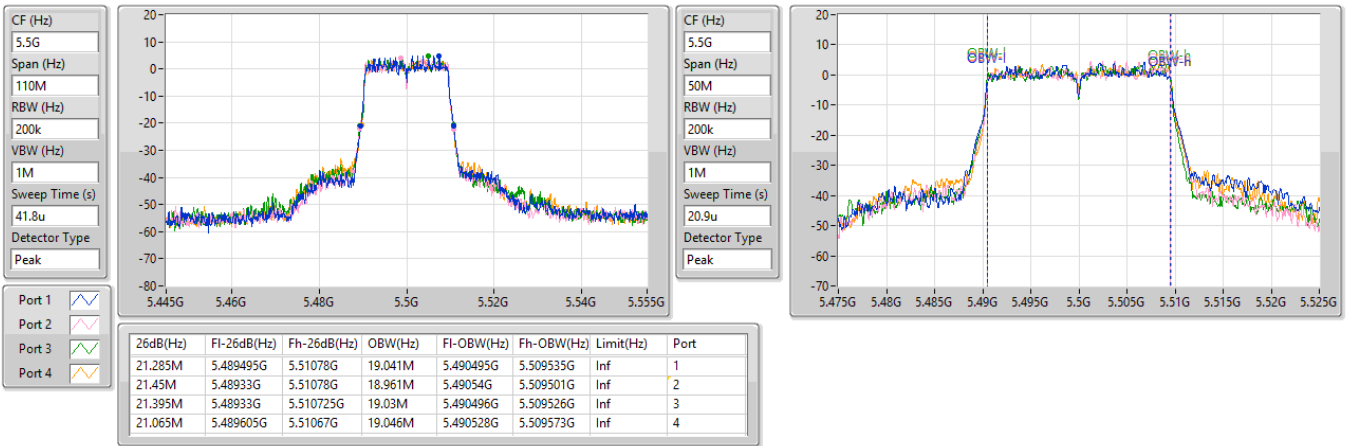


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5500MHz

26/11/2024

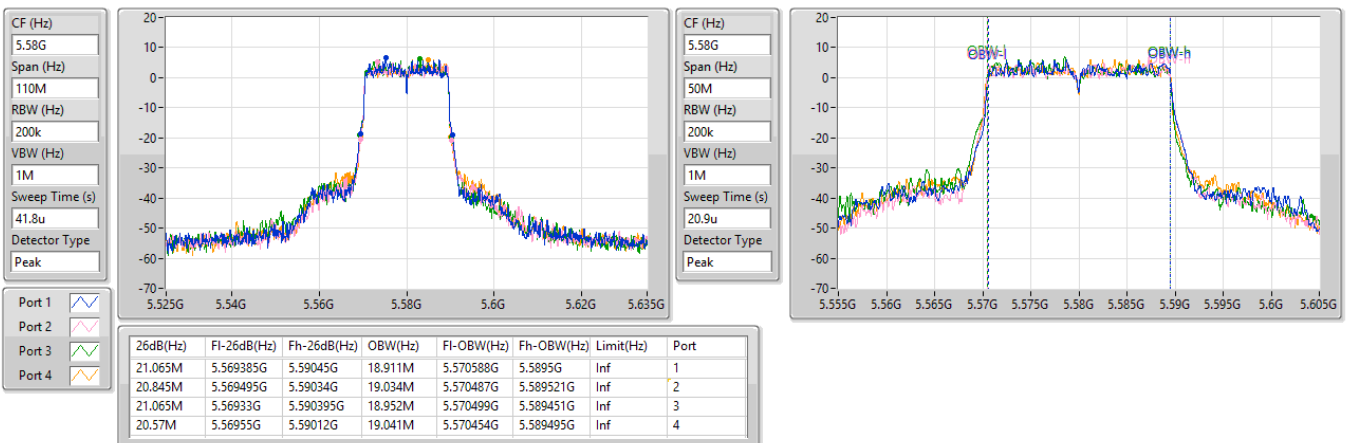


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5580MHz

26/11/2024

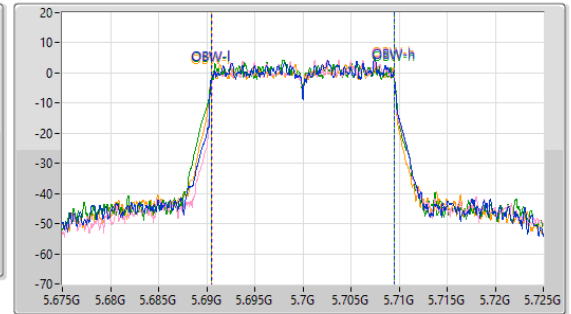
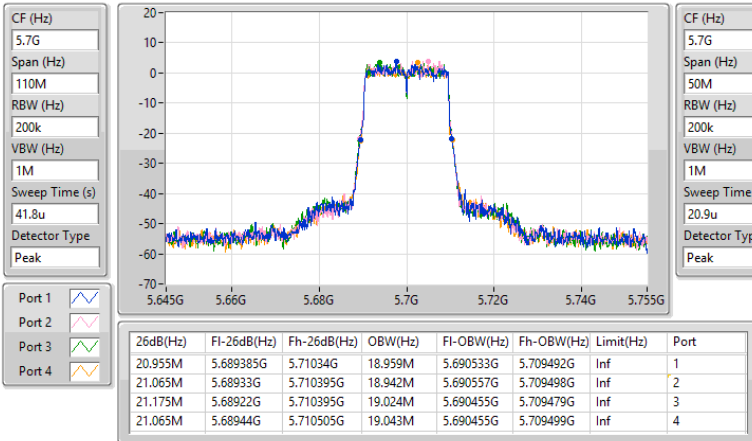


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5700MHz

26/11/2024

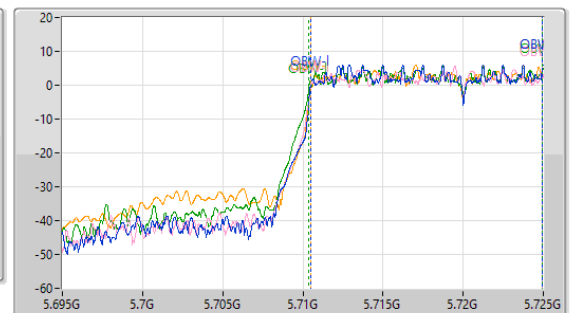
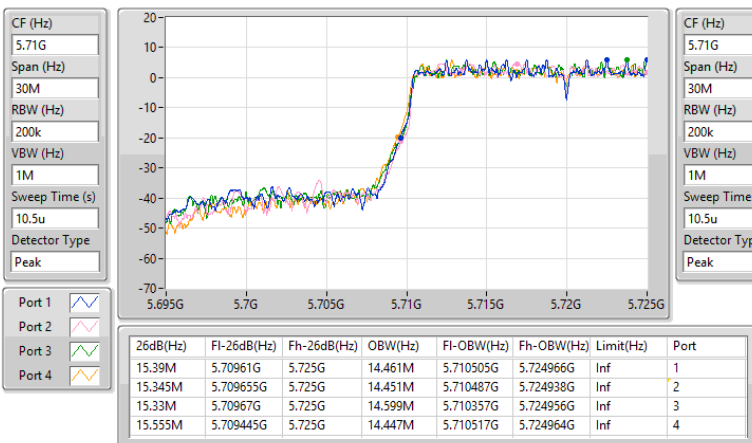


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.47-5.725GHz

26/11/2024

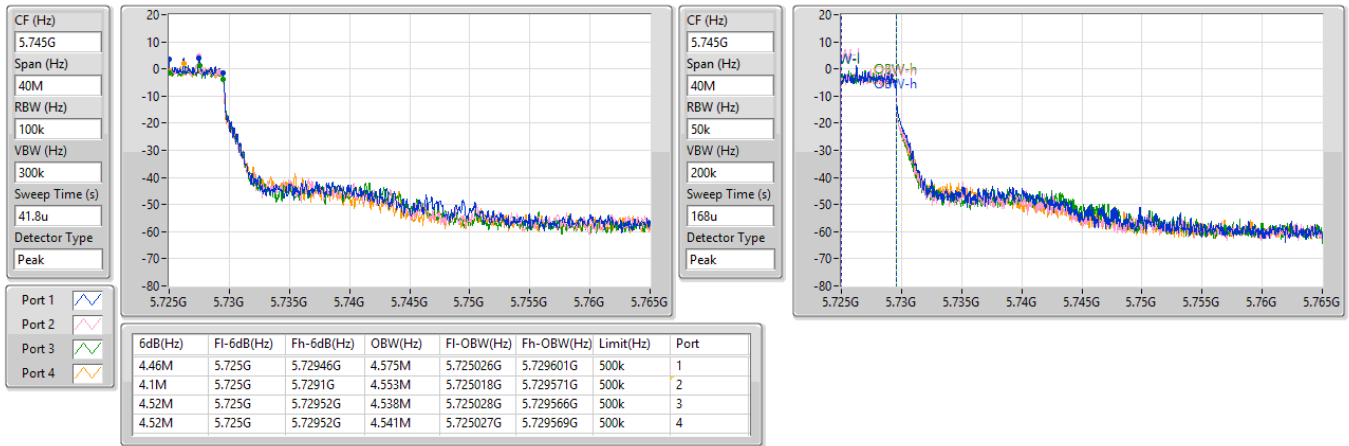


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

26/11/2024

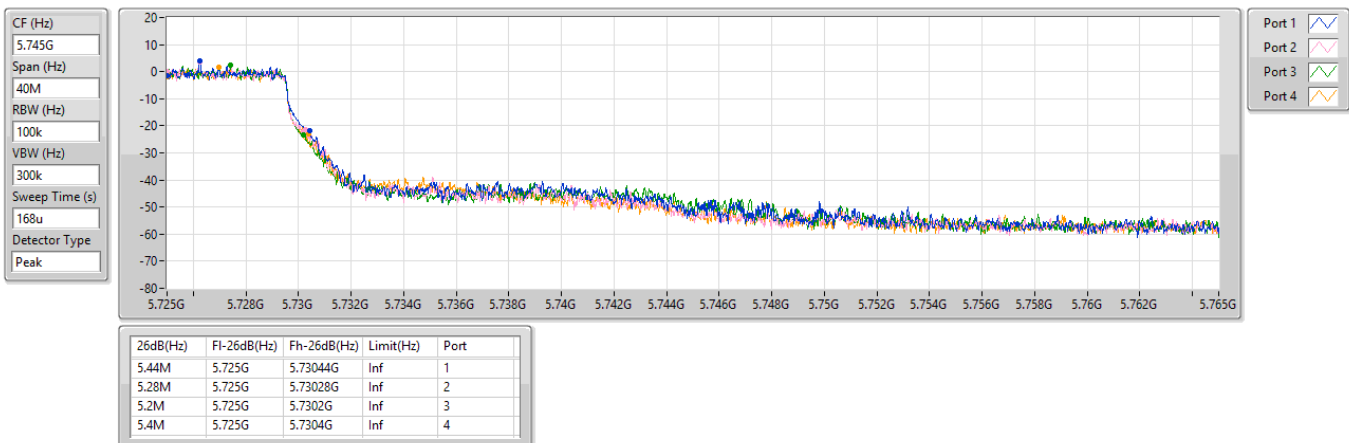


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

26/11/2024

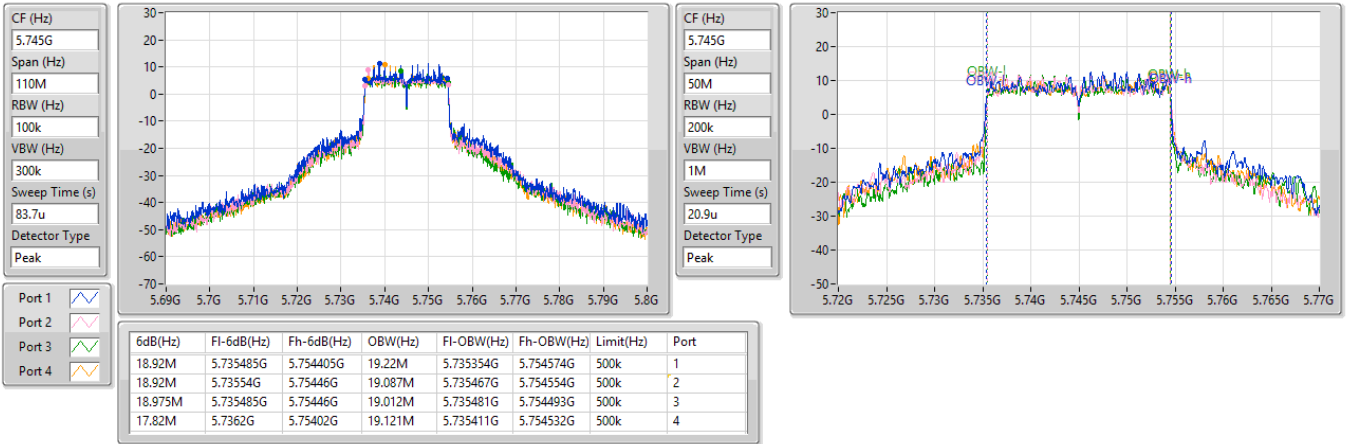


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

26/11/2024



5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

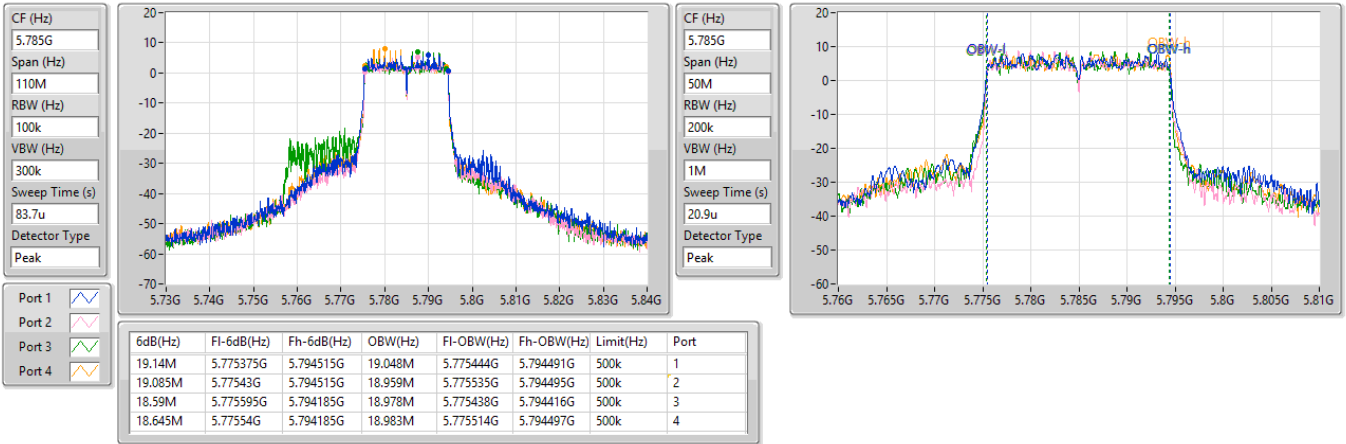
5745MHz

26/11/2024

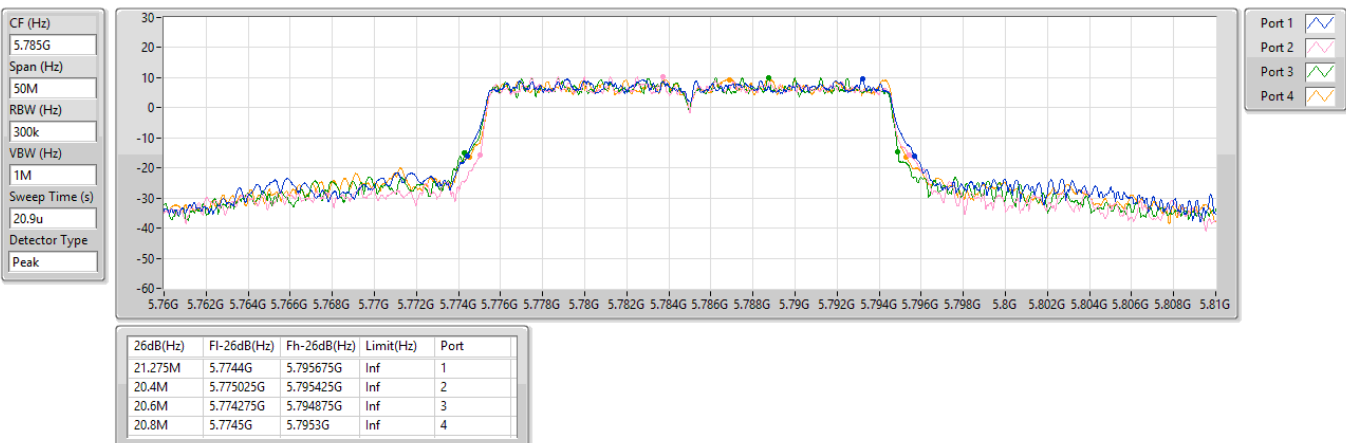


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX
EBW
5785MHz

26/11/2024


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX
EBW
5785MHz

26/11/2024

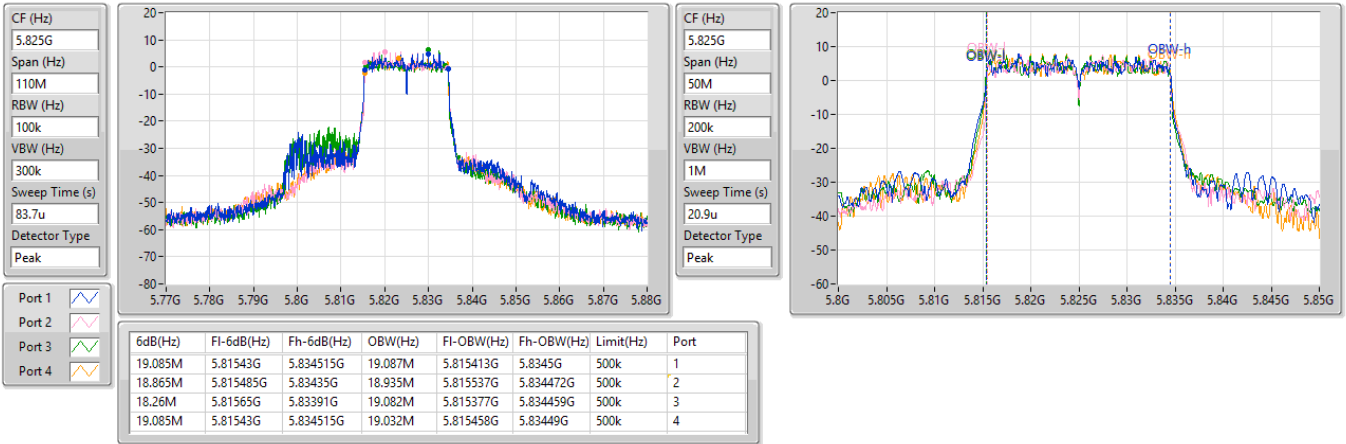


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5825MHz

26/11/2024

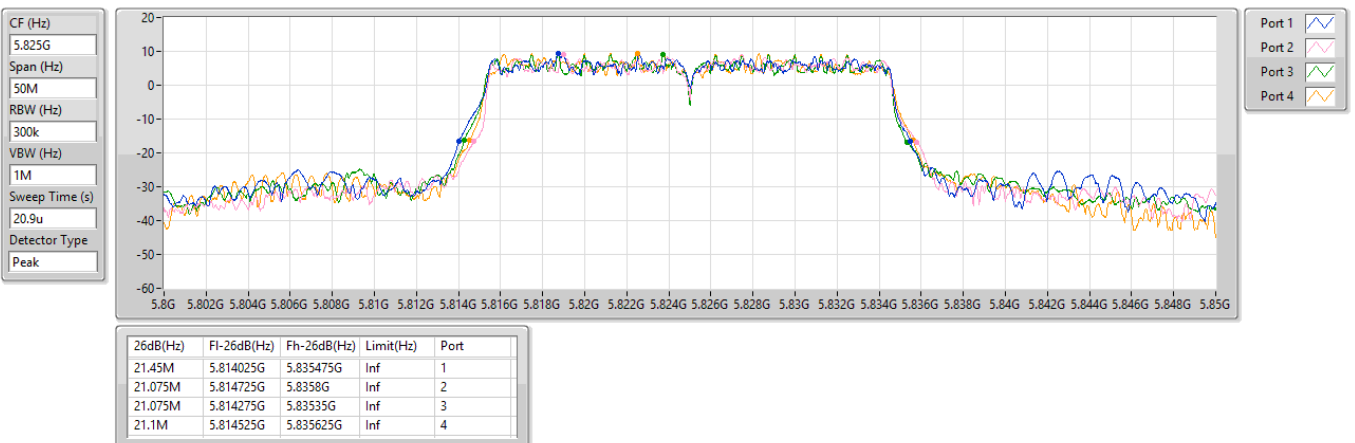


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5825MHz

26/11/2024

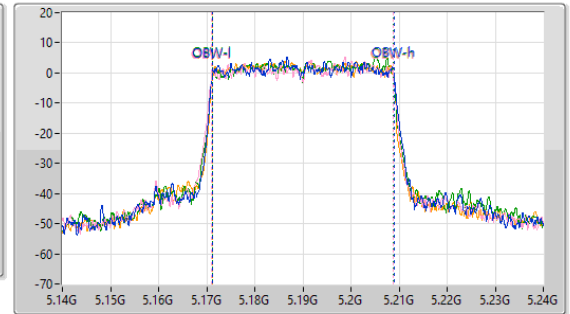
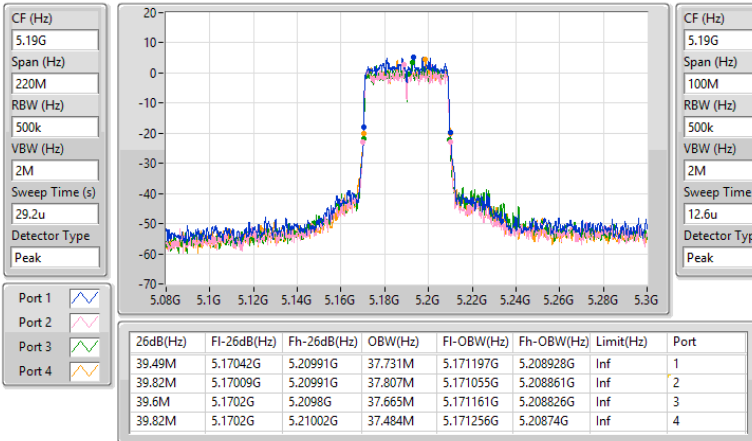


5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5190MHz

26/11/2024

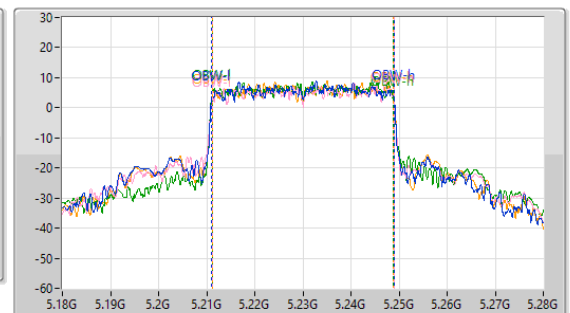
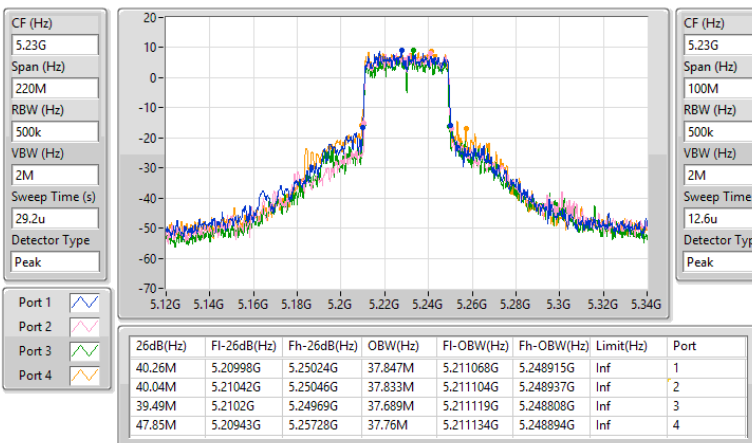


5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

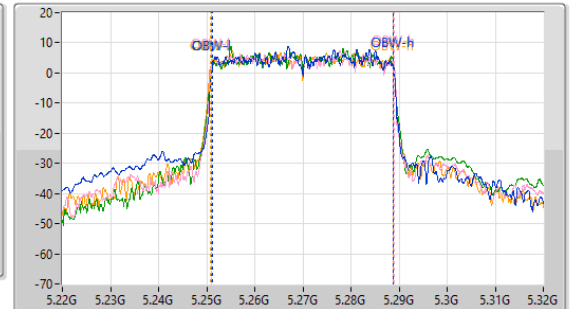
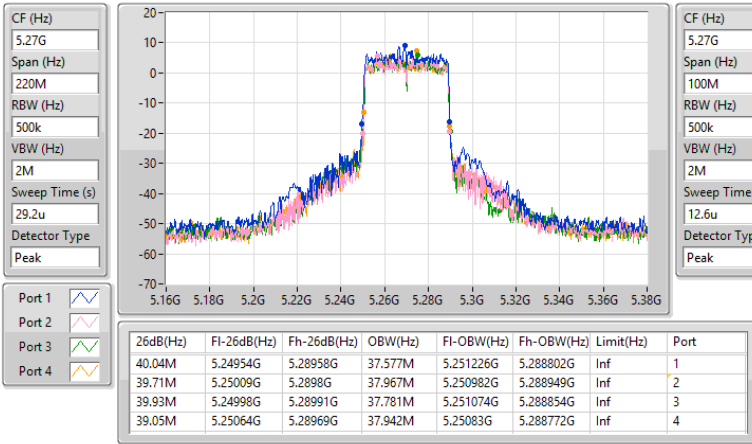
5230MHz

26/11/2024

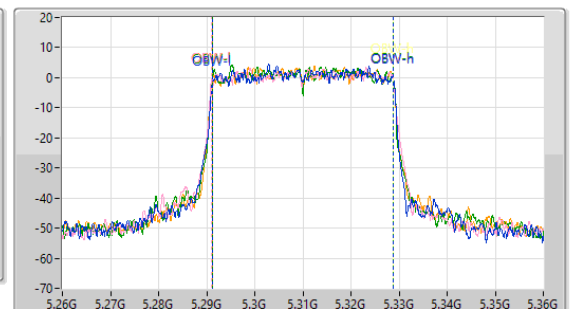
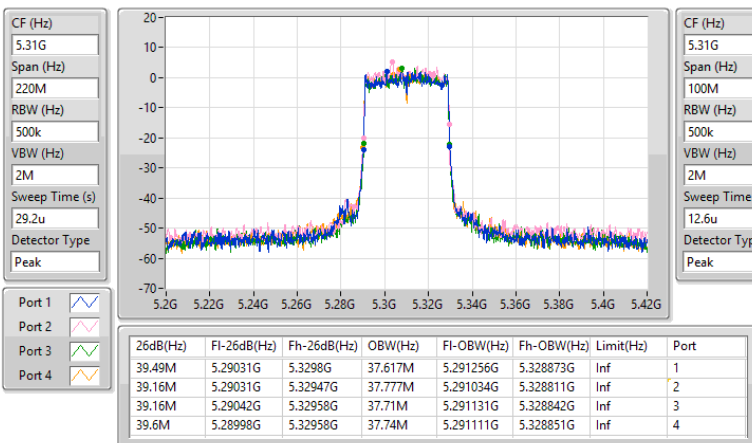


5.25-5.35GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
5270MHz

26/11/2024


5.25-5.35GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
5310MHz

26/11/2024

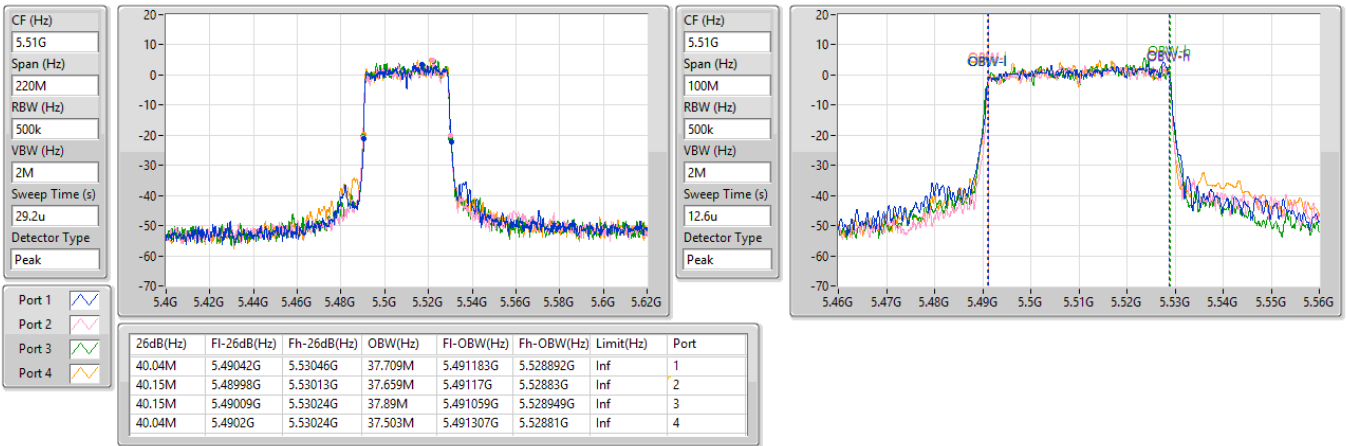


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5510MHz

26/11/2024

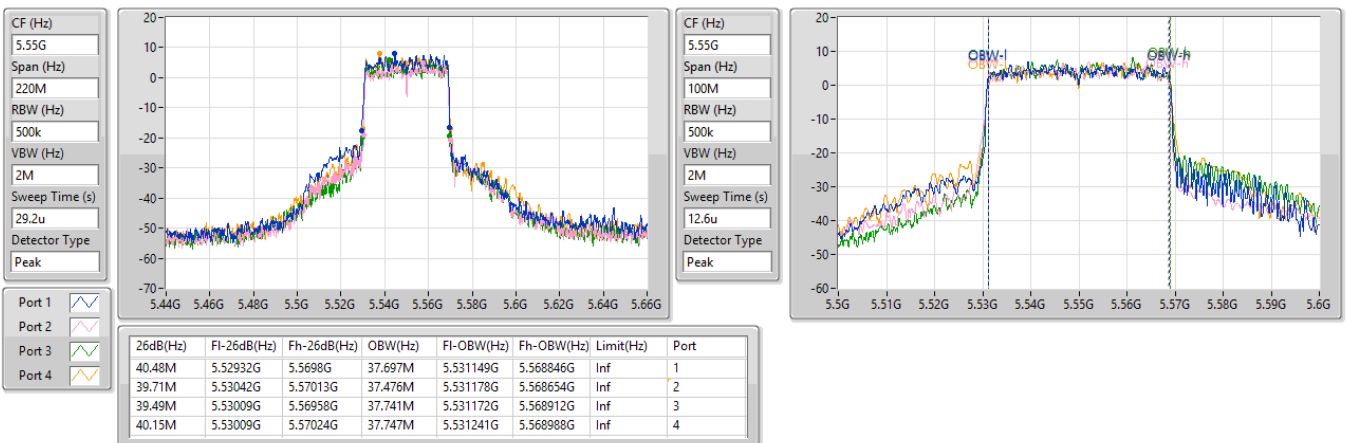


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

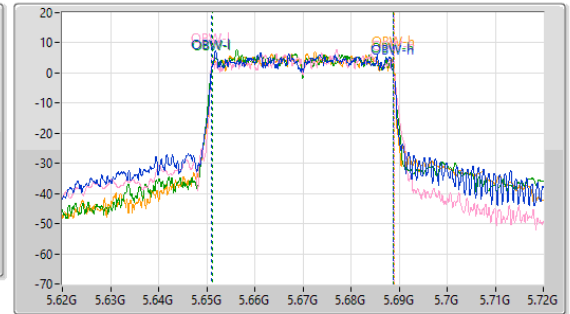
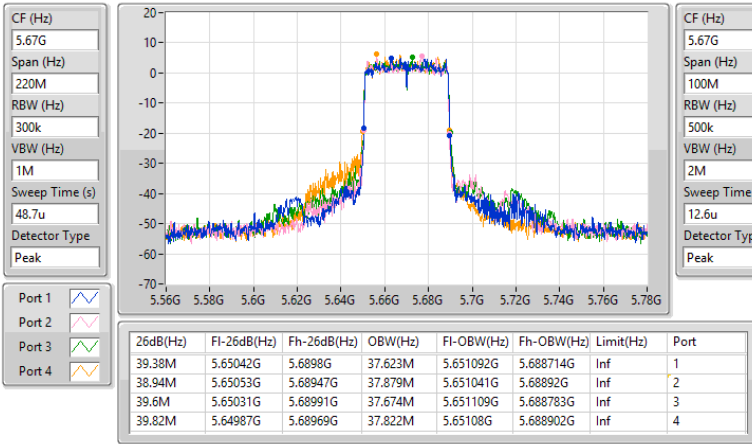
5550MHz

26/11/2024

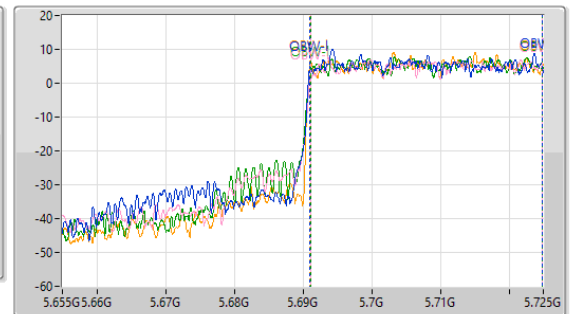
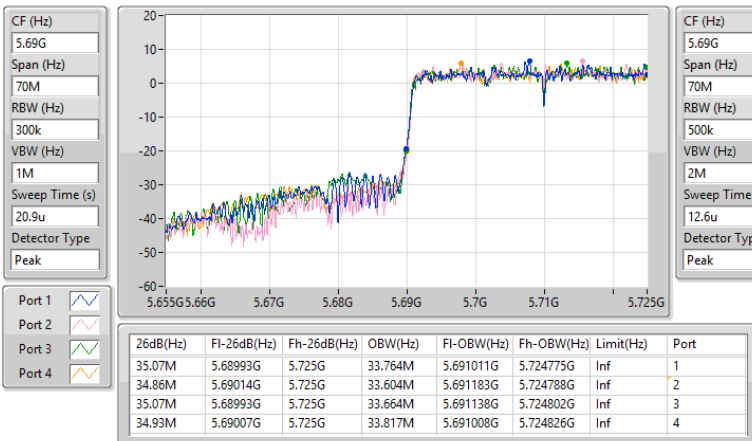


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
5670MHz

26/11/2024


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

26/11/2024

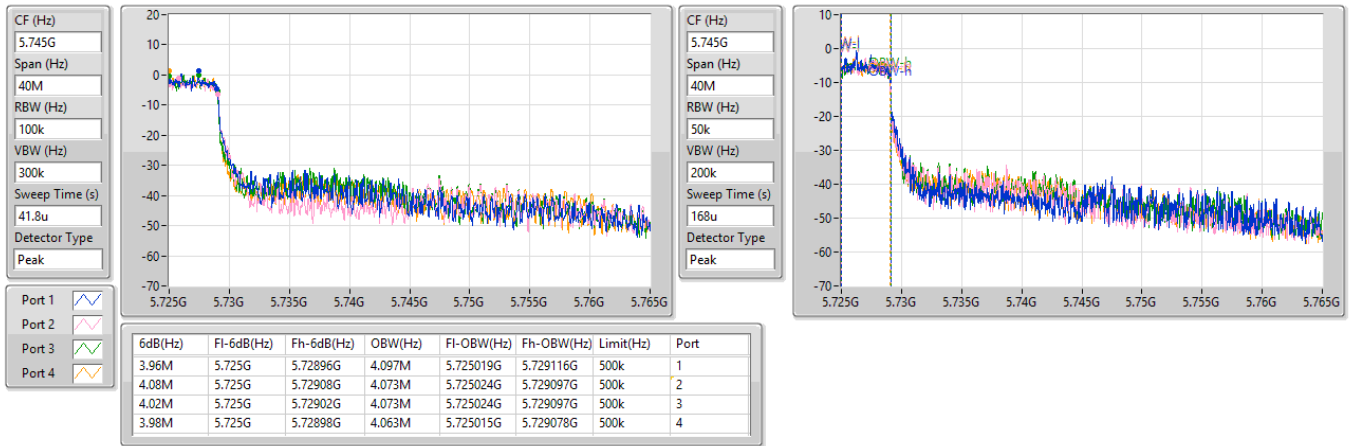


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

26/11/2024

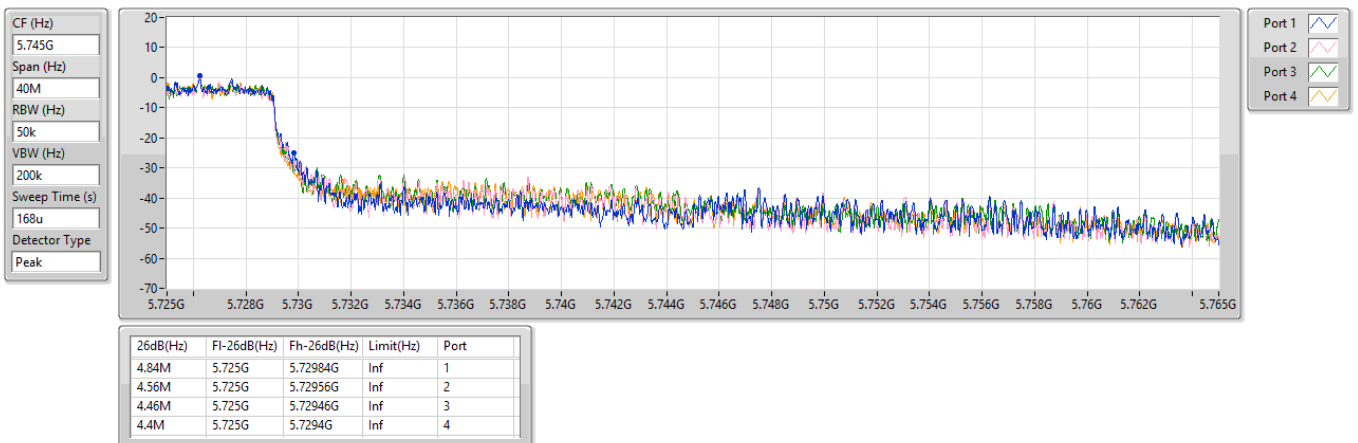


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

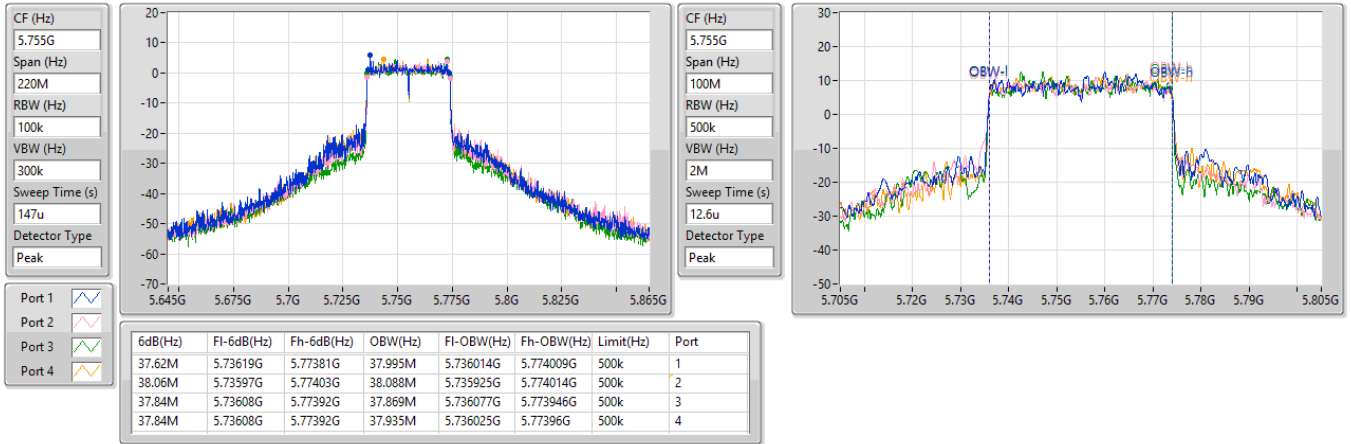
5710MHz Straddle 5.725-5.85GHz

26/11/2024

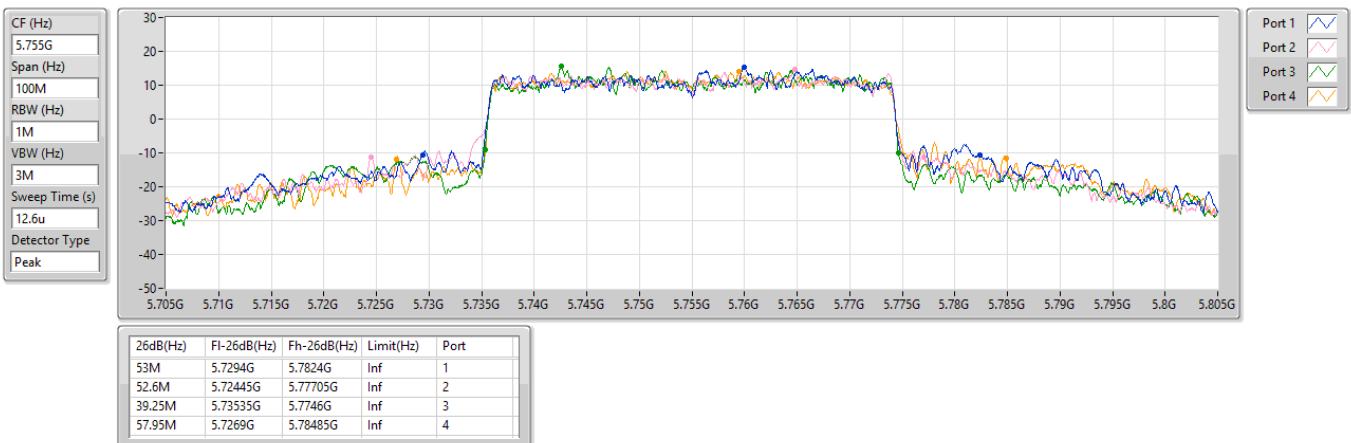


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
5755MHz

26/11/2024


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX
EBW
5755MHz

26/11/2024

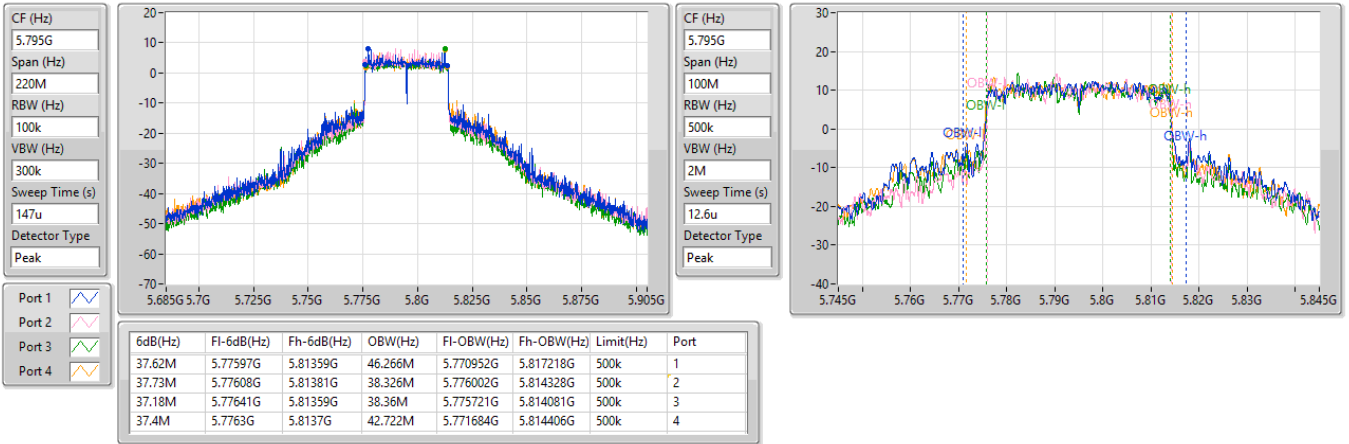


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

26/11/2024

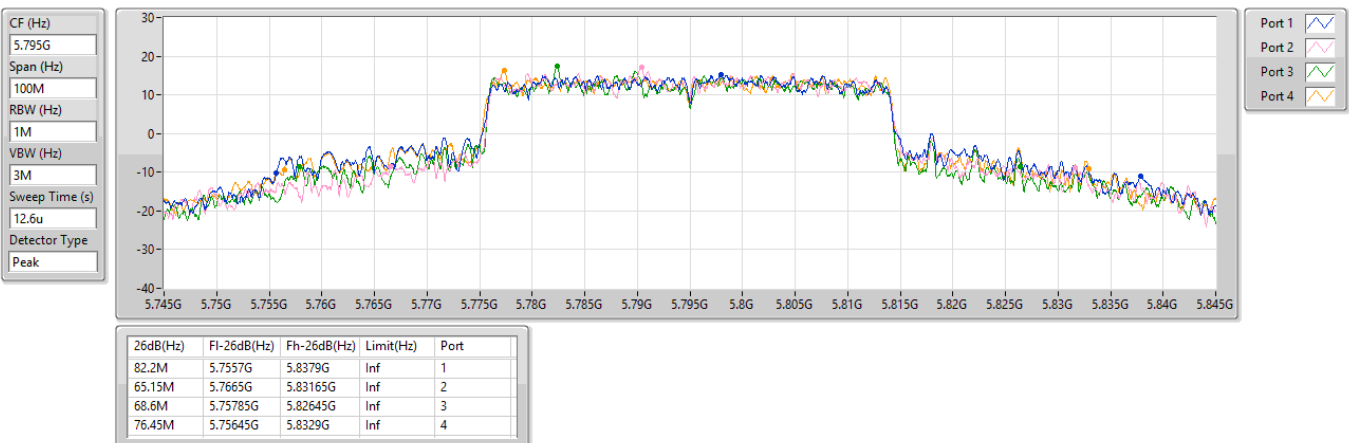


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

26/11/2024

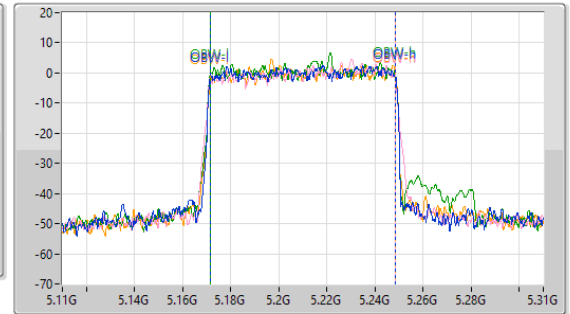
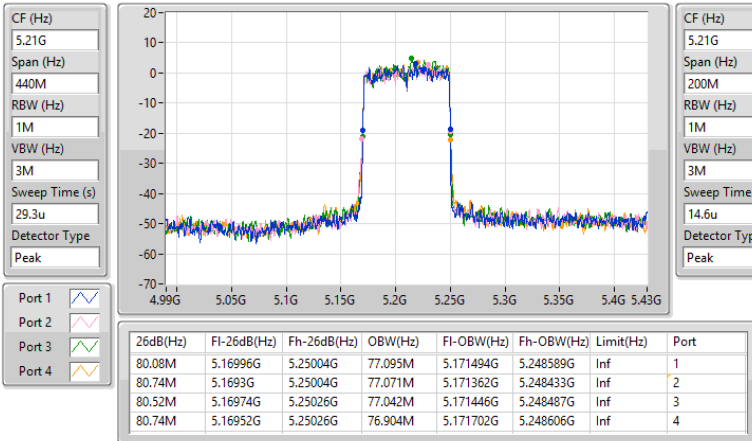


5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5210MHz

26/11/2024

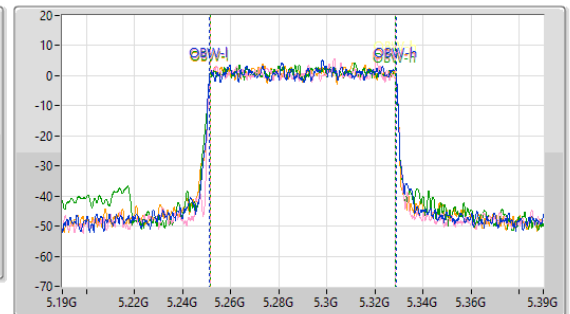
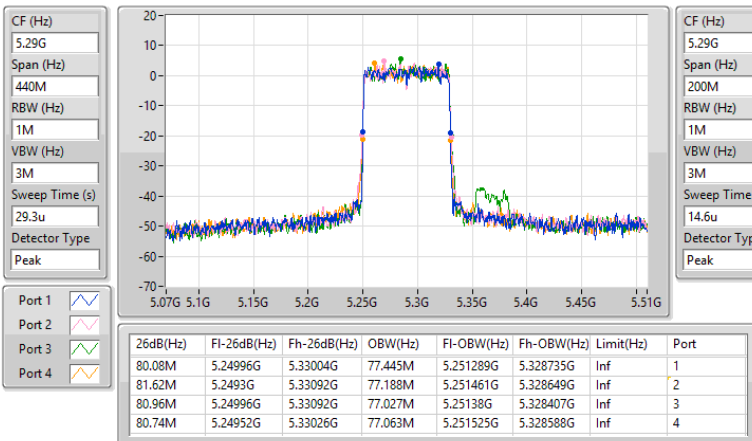


5.25-5.35GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5290MHz

26/11/2024

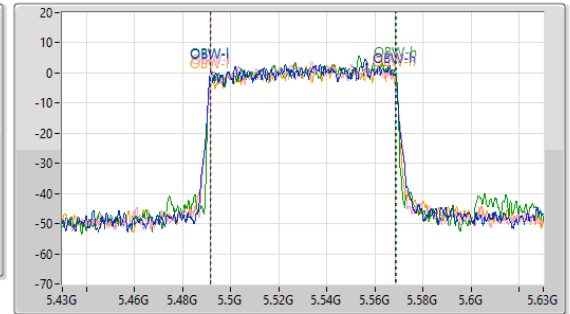
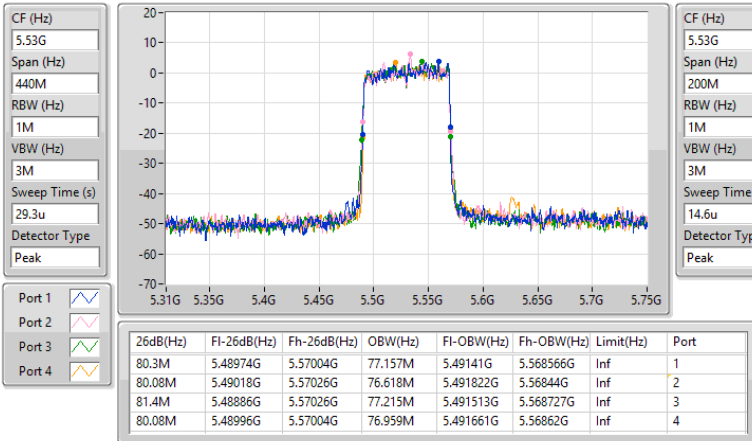


5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5530MHz

26/11/2024

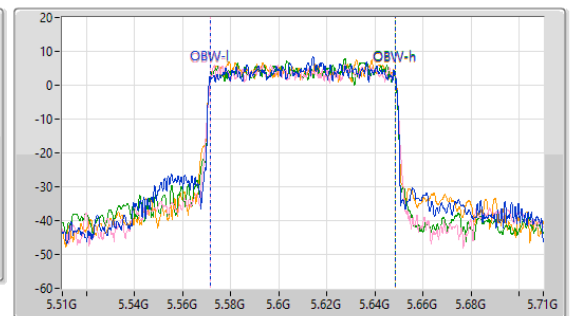
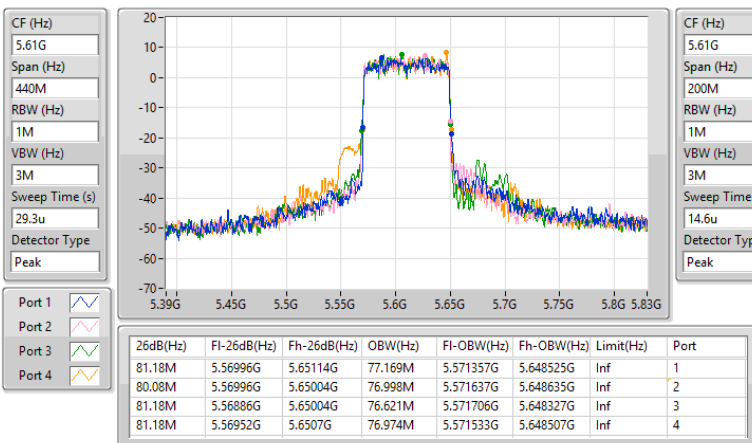


5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5610MHz

26/11/2024

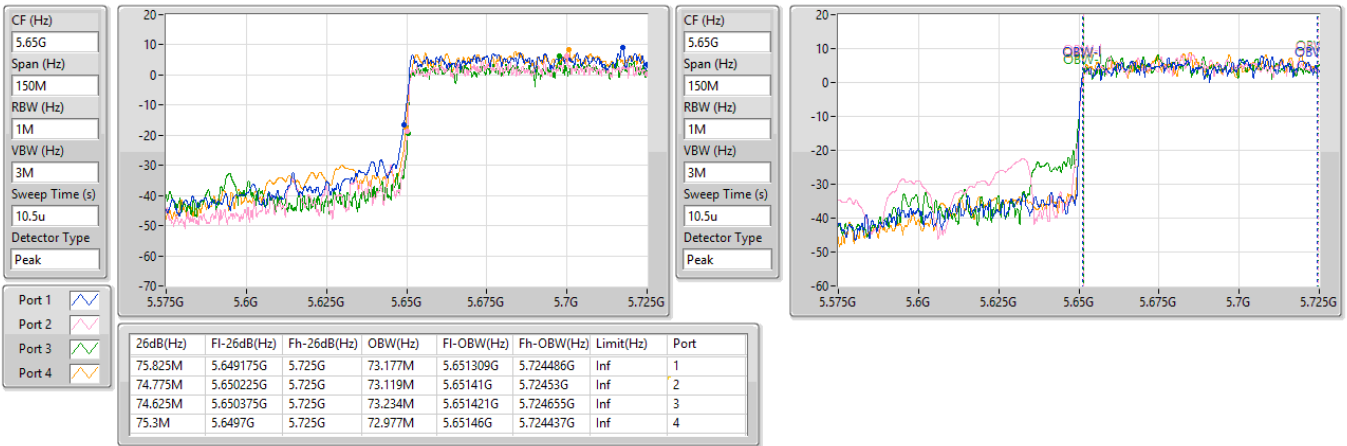


5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.47-5.725GHz

26/11/2024

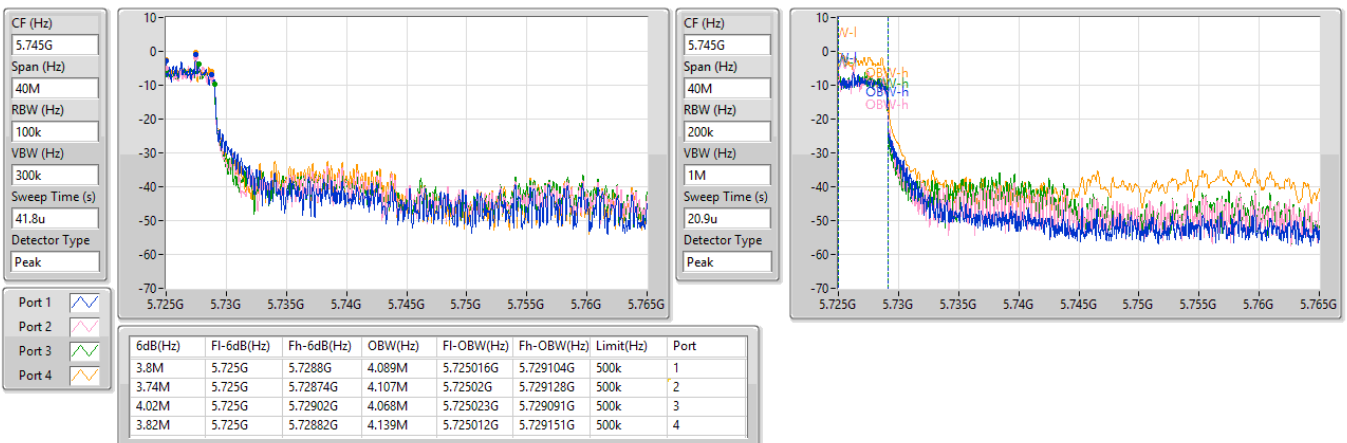


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

26/11/2024

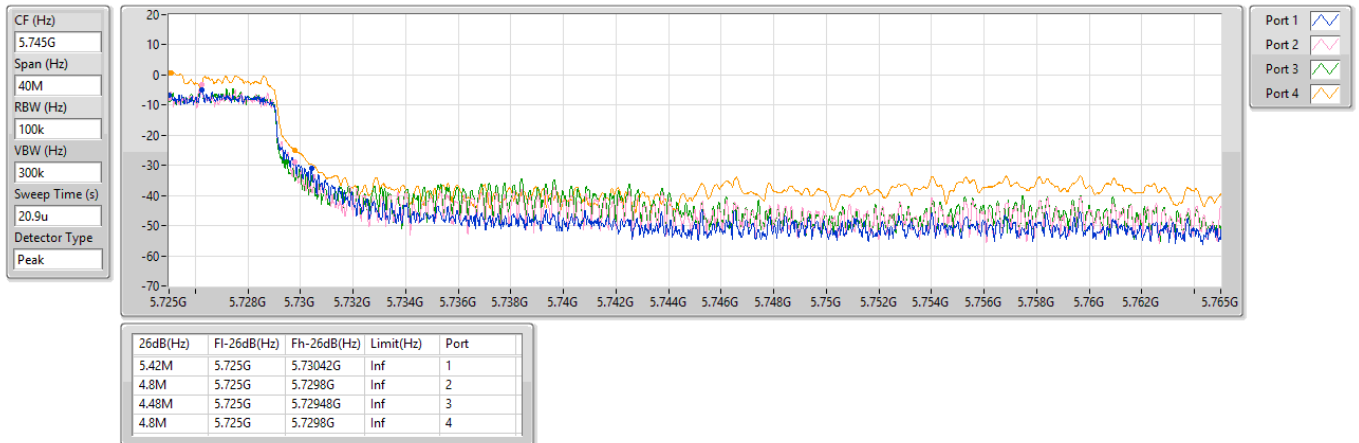


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

26/11/2024

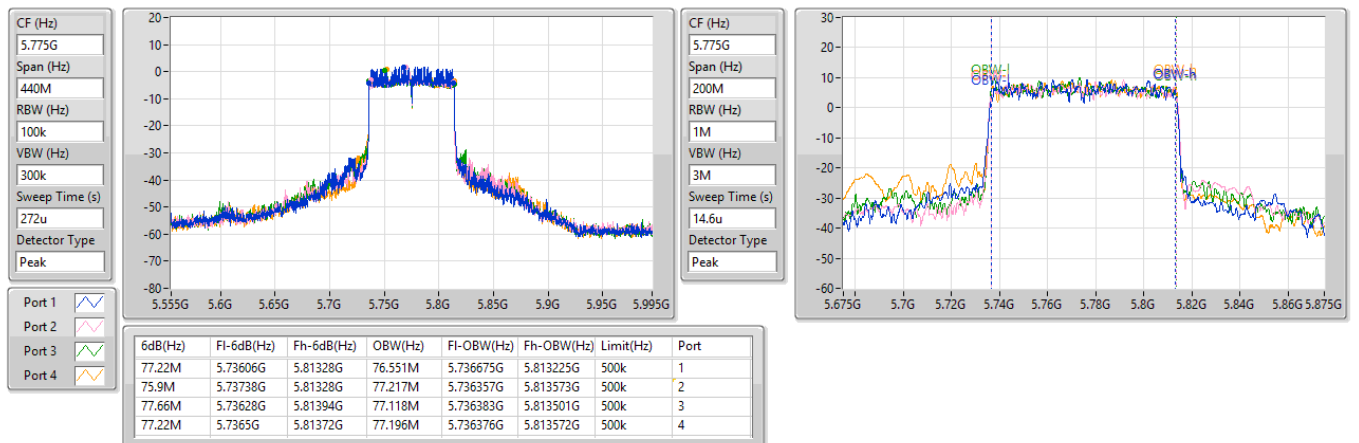


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

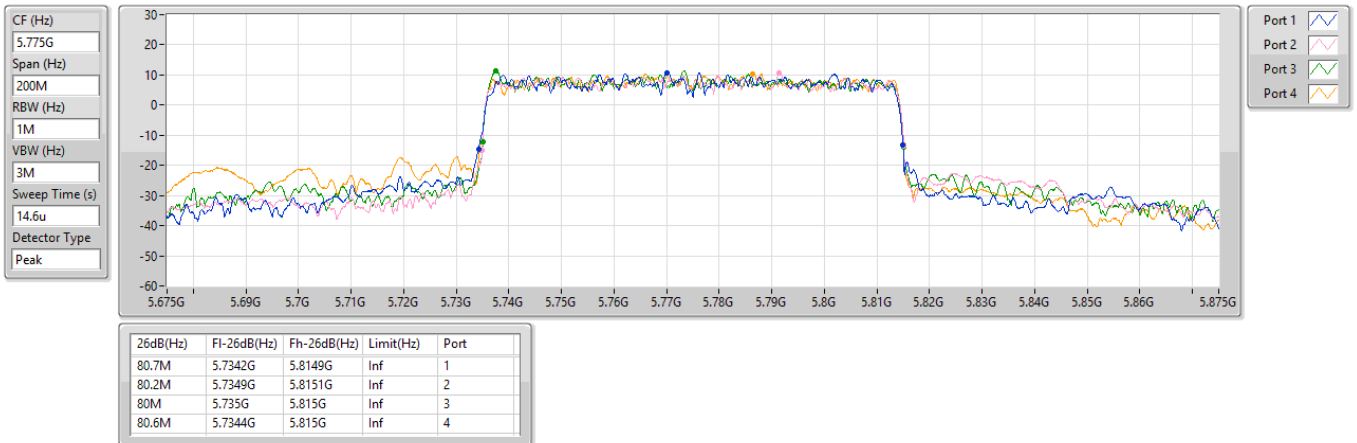
5775MHz

26/11/2024

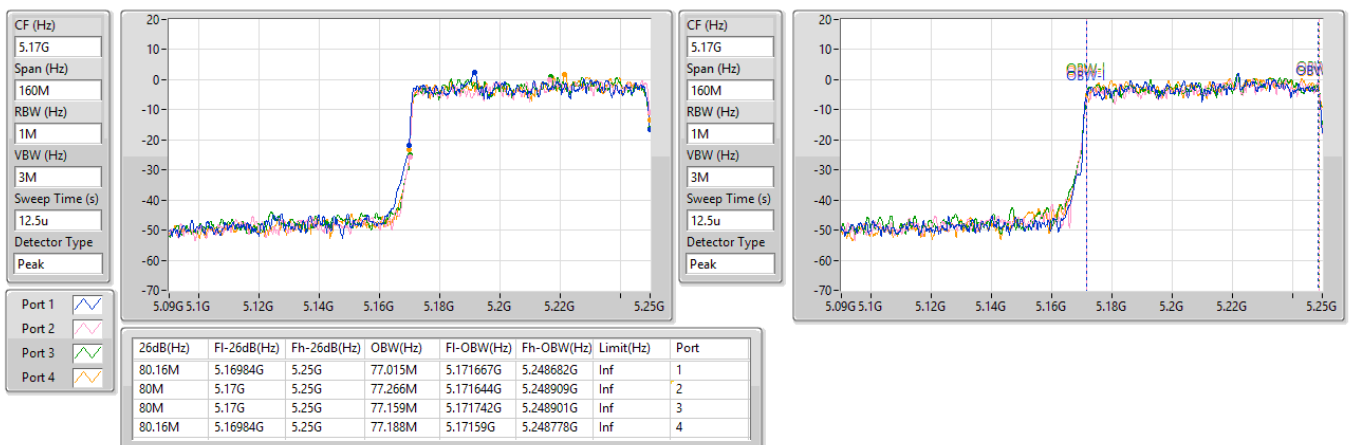


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_4TX
EBW
5775MHz

26/11/2024


5.15-5.25GHz_802.11be EHT160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

26/11/2024

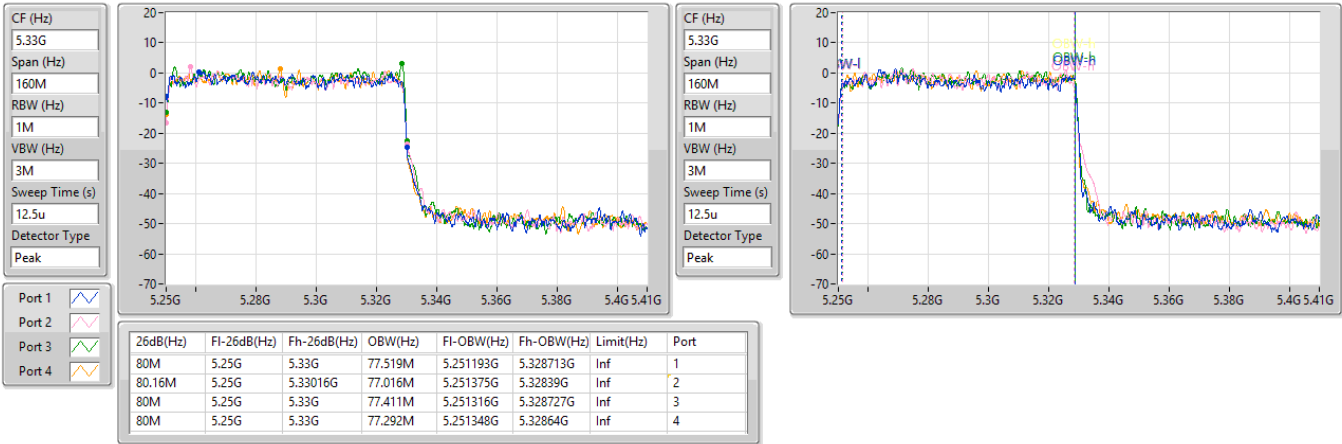


5.25-5.35GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

26/11/2024

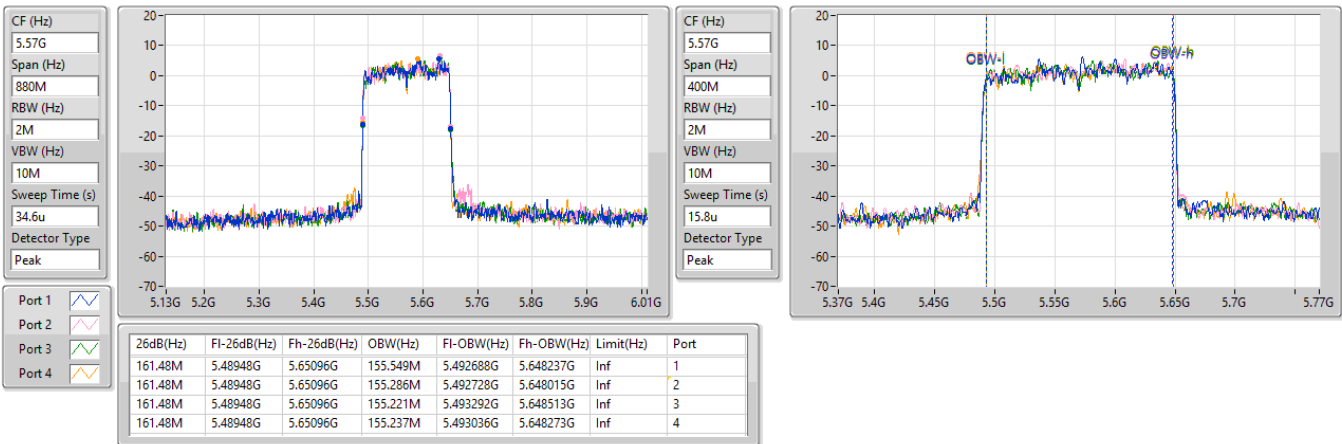


5.47-5.725GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

5570MHz

26/11/2024



Test Mode: Mode 2
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	35.75M	19.932M	19M9D1D	20.185M	16.438M
802.11be EHT20_Nss1,(MCS0)_4TX	37.345M	19.757M	19M8D1D	20.46M	18.992M
802.11be EHT40_Nss1,(MCS0)_4TX	47.52M	37.887M	37M9D1D	39.16M	37.65M
802.11be EHT80_Nss1,(MCS0)_4TX	80.52M	77.312M	77M3D1D	80.3M	76.885M
802.11be EHT160_Nss1,(MCS0)_4TX	80.08M	77.605M	77M6D1D	79.92M	76.802M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.395M	17.24M	17M2D1D	19.415M	16.374M
802.11be EHT20_Nss1,(MCS0)_4TX	24.42M	19.156M	19M2D1D	20.68M	18.957M
802.11be EHT40_Nss1,(MCS0)_4TX	54.78M	38.07M	38M1D1D	39.38M	37.63M
802.11be EHT80_Nss1,(MCS0)_4TX	81.4M	77.154M	77M2D1D	80.08M	77.047M
802.11be EHT160_Nss1,(MCS0)_4TX	80.72M	77.526M	77M5D1D	80M	77.22M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.845M	16.438M	20.35M	16.538M	20.79M	16.524M	20.185M	16.481M
5200MHz	Pass	Inf	24.695M	16.901M	29.425M	16.609M	27.225M	17.493M	27.665M	16.646M
5240MHz	Pass	Inf	35.2M	17.711M	35.75M	17.593M	35.475M	19.932M	32.725M	18.646M
5260MHz	Pass	Inf	20.845M	17.24M	20.46M	16.679M	20.57M	17.03M	21.395M	16.499M
5300MHz	Pass	Inf	20.515M	16.526M	19.525M	16.53M	20.13M	16.784M	20.57M	16.586M
5320MHz	Pass	Inf	20.46M	16.402M	19.415M	16.49M	20.295M	16.771M	19.525M	16.374M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.065M	19.076M	20.735M	19.161M	21.23M	19.072M	20.46M	18.992M
5200MHz	Pass	Inf	20.955M	19.051M	24.64M	19.023M	22.055M	19.194M	21.23M	19.111M
5240MHz	Pass	Inf	35.42M	19.34M	36.19M	19.456M	37.345M	19.757M	36.025M	19.421M
5260MHz	Pass	Inf	21.285M	19.057M	20.955M	19.061M	24.42M	18.965M	21.505M	19.156M
5300MHz	Pass	Inf	21.065M	19.117M	20.735M	18.964M	20.845M	19.007M	22.66M	19.033M
5320MHz	Pass	Inf	21.285M	18.967M	21.615M	19.129M	21.23M	18.957M	20.68M	19.051M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.6M	37.796M	39.71M	37.887M	39.71M	37.689M	39.82M	37.711M
5230MHz	Pass	Inf	39.16M	37.65M	40.92M	37.808M	47.52M	37.76M	46.09M	37.82M
5270MHz	Pass	Inf	54.78M	37.923M	54.23M	38.07M	40.37M	37.8M	50.38M	37.924M
5310MHz	Pass	Inf	40.7M	38.008M	39.6M	37.824M	39.82M	37.63M	39.38M	37.85M
802.11be EHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.3M	77.312M	80.52M	77.013M	80.3M	76.885M	80.3M	77.169M
5290MHz	Pass	Inf	81.4M	77.051M	80.08M	77.154M	80.08M	77.047M	80.74M	77.057M
802.11be EHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.08M	77.331M	79.92M	77.298M	80M	77.605M	80.08M	76.802M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.72M	77.22M	80M	77.254M	80M	77.397M	80.16M	77.526M

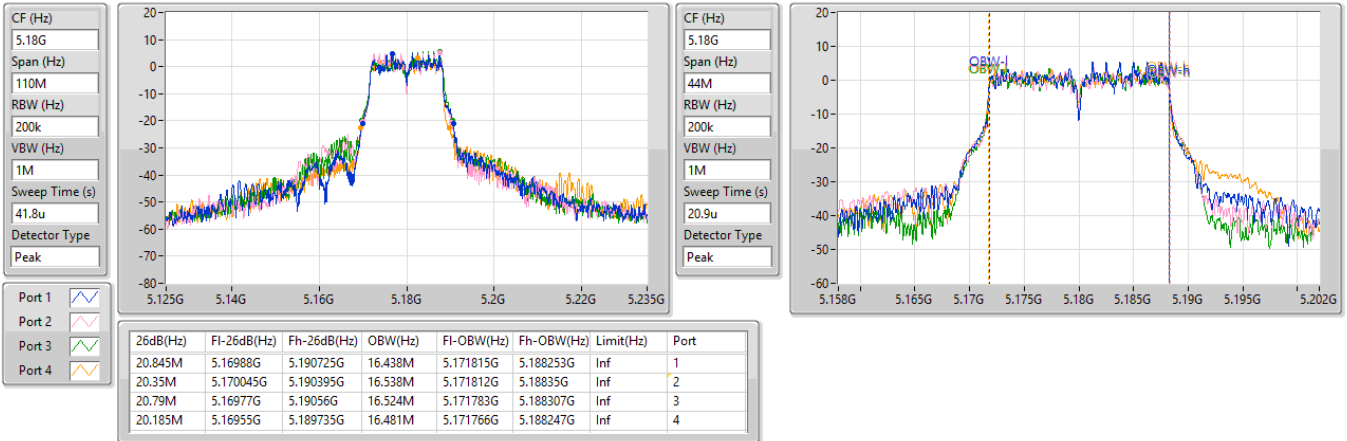
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

26/11/2024

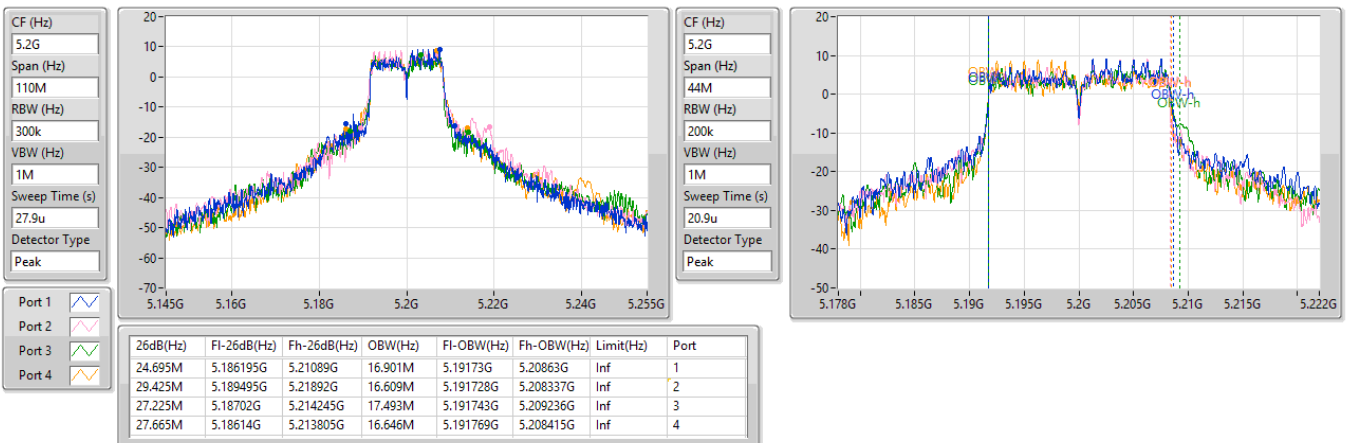


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

26/11/2024

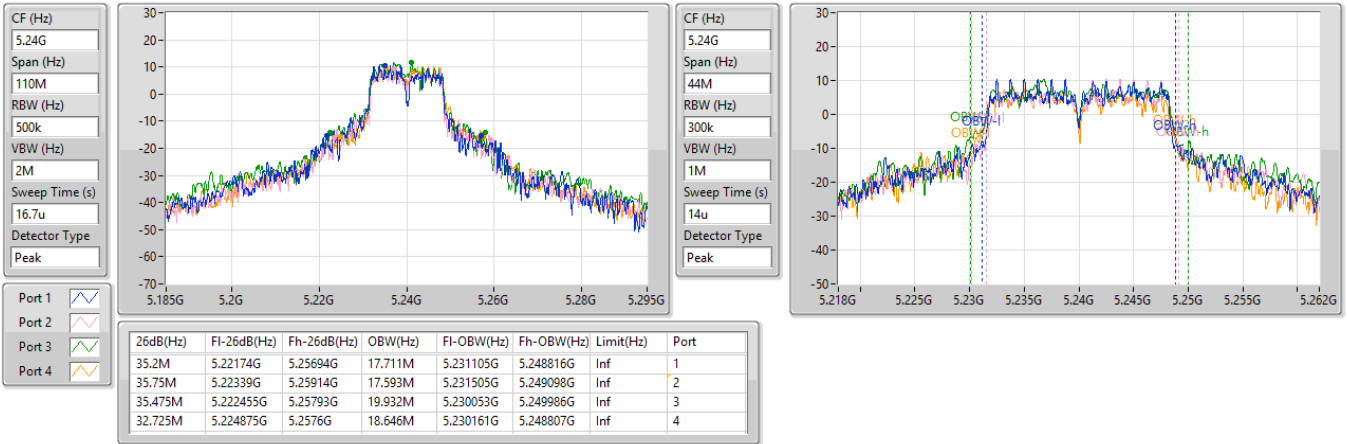


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

26/11/2024

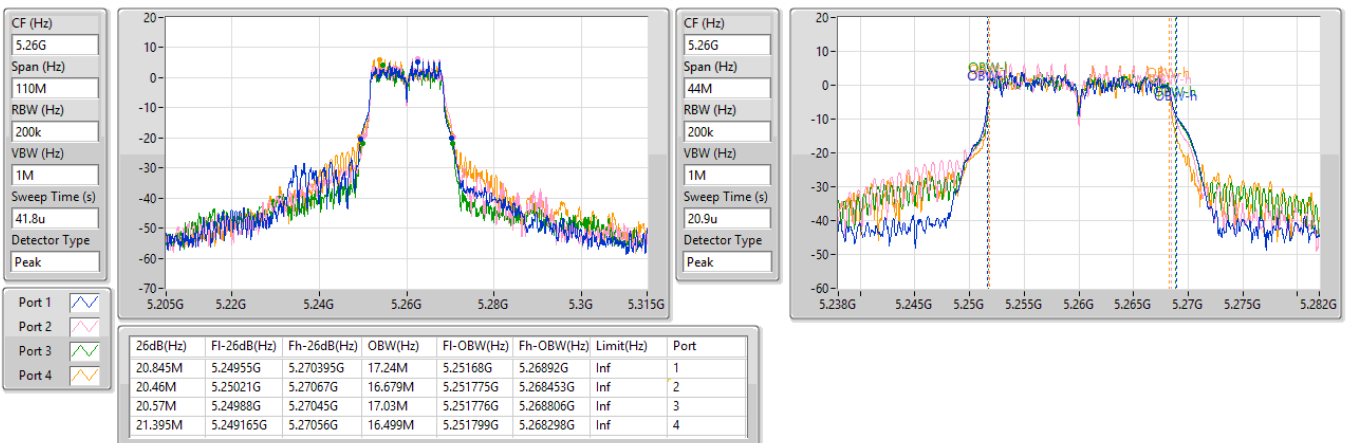


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5260MHz

26/11/2024

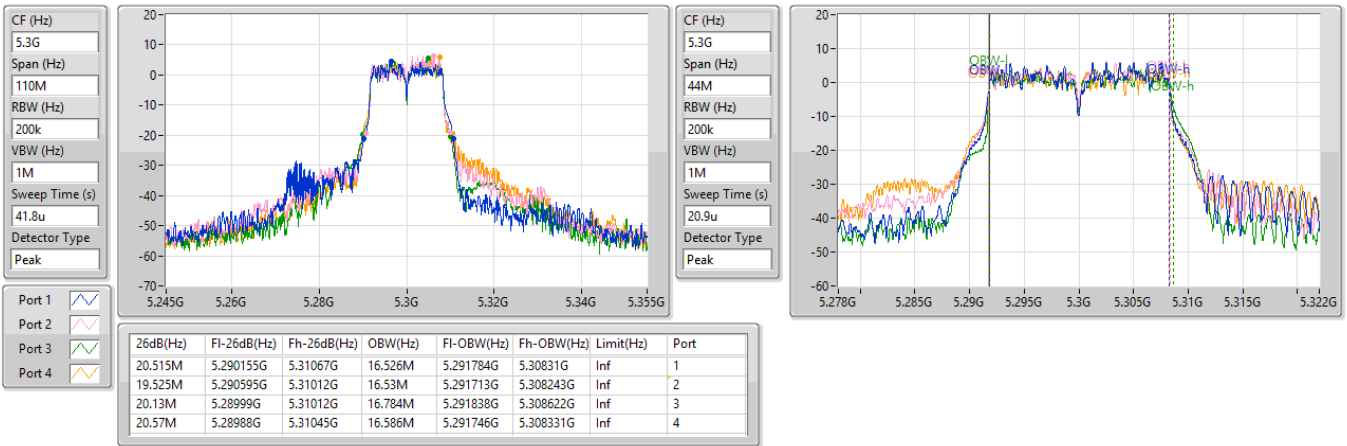


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5300MHz

26/11/2024

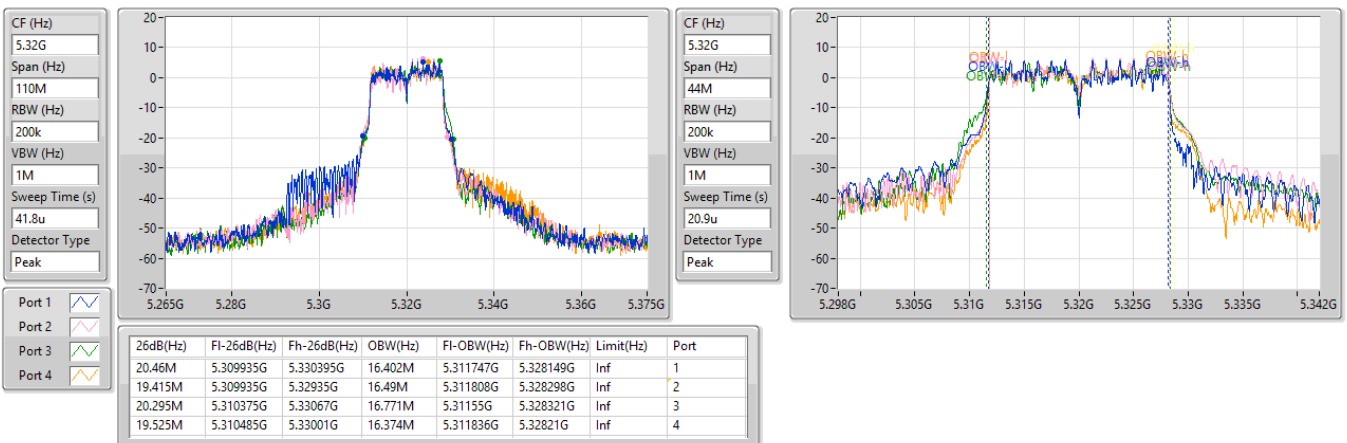


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5320MHz

26/11/2024

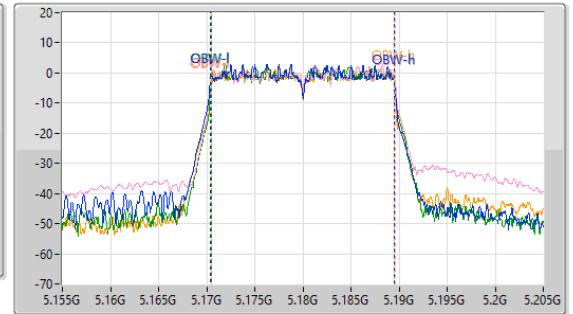
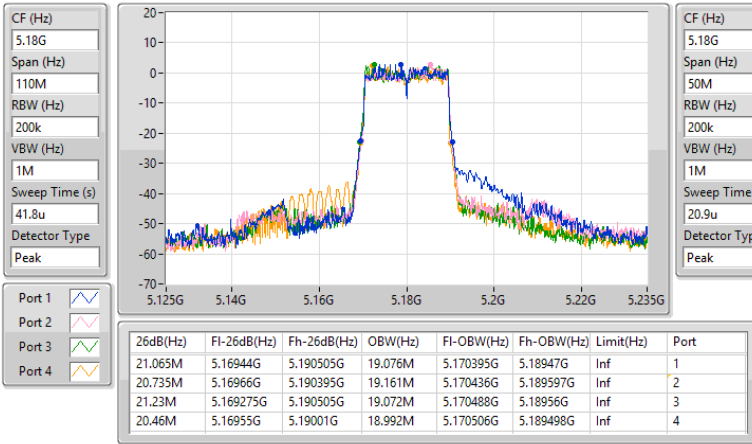


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

26/11/2024

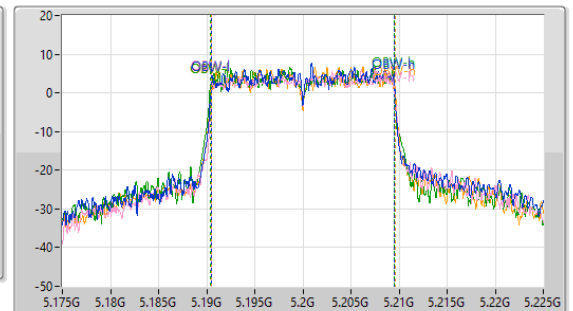
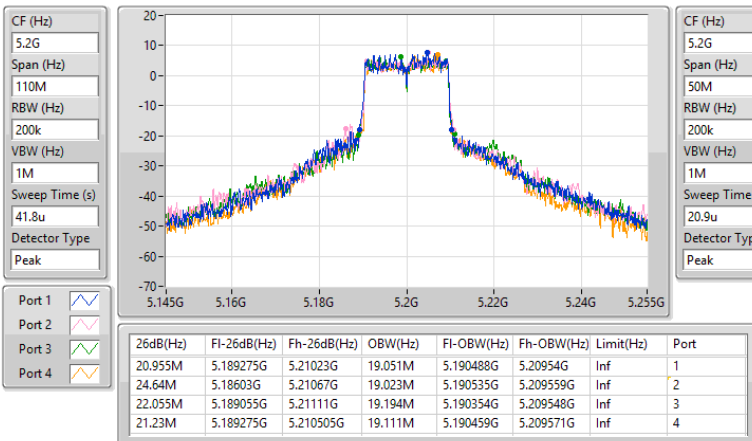


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

26/11/2024

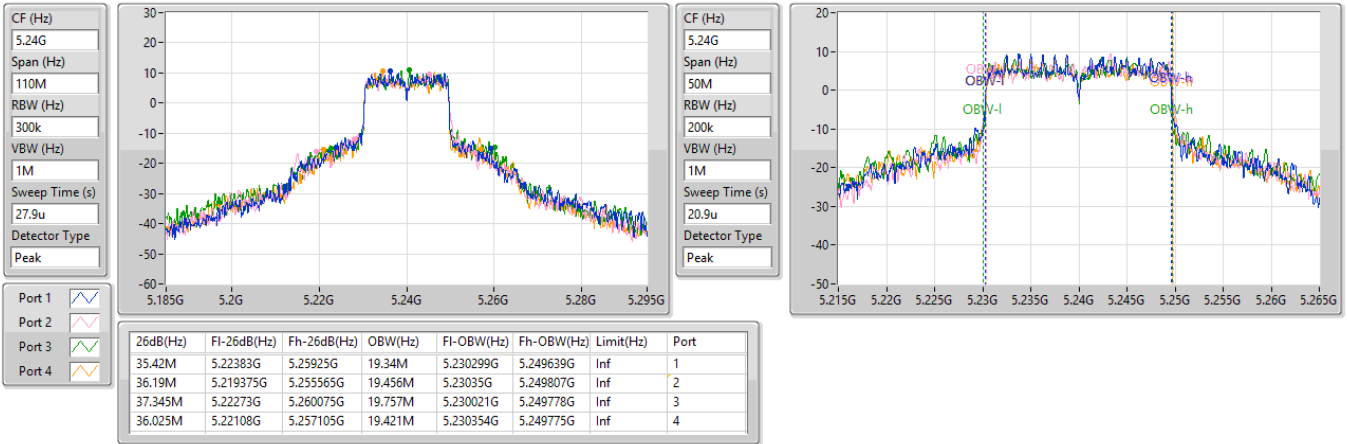


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5240MHz

26/11/2024

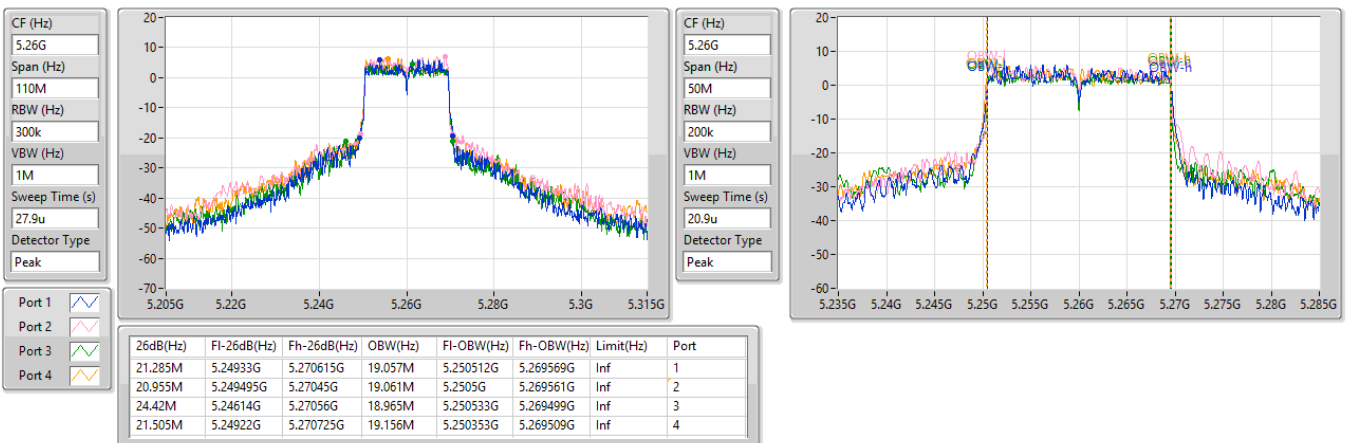


5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5260MHz

26/11/2024

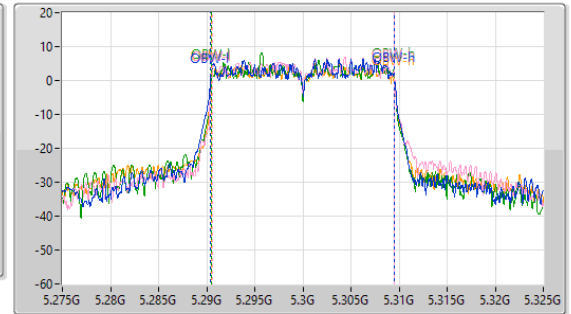


5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5300MHz

26/11/2024

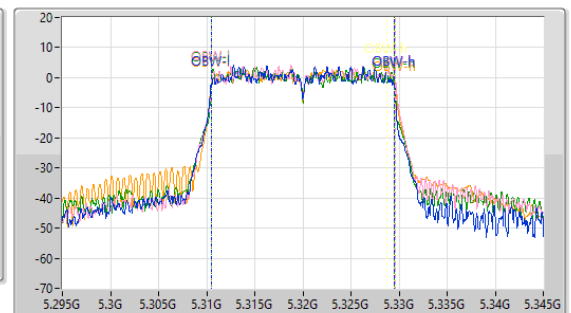
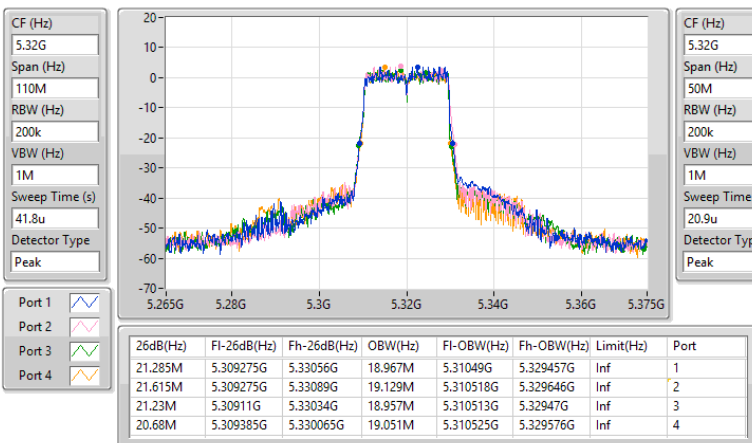


5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5320MHz

26/11/2024

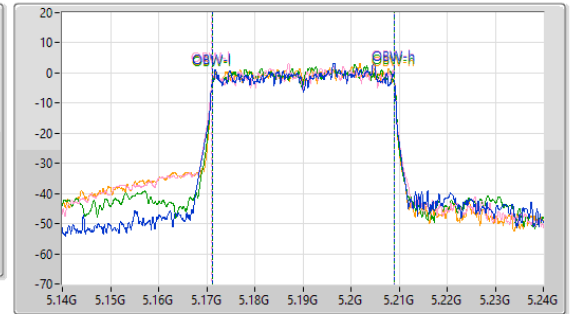
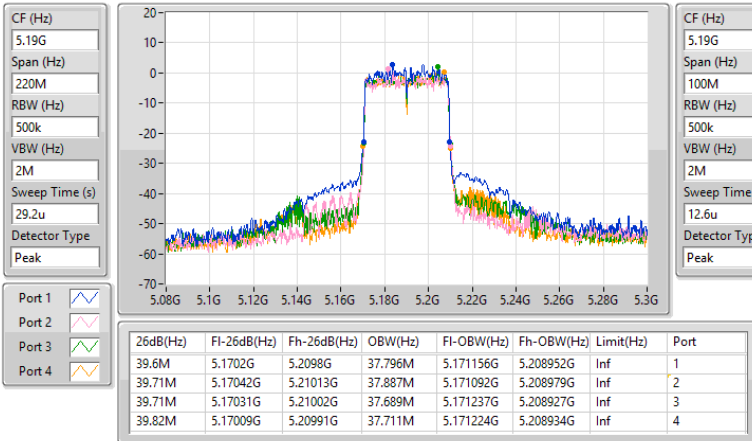


5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5190MHz

26/11/2024

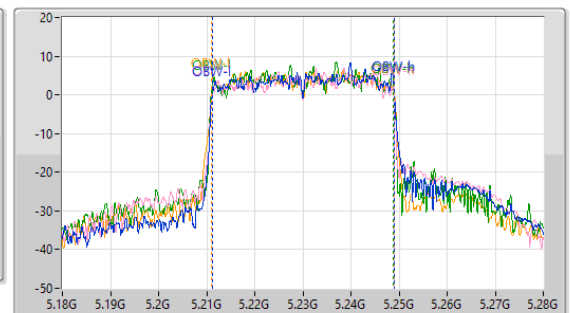
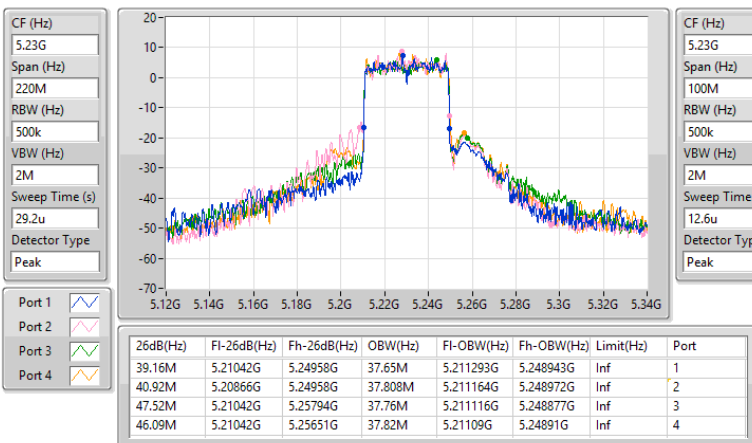


5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5230MHz

26/11/2024

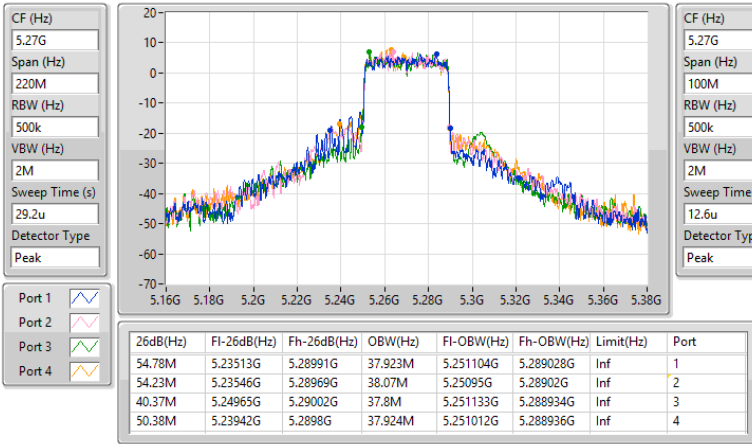


5.25-5.35GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5270MHz

26/11/2024

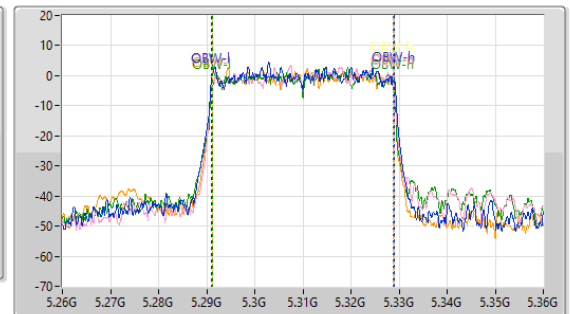
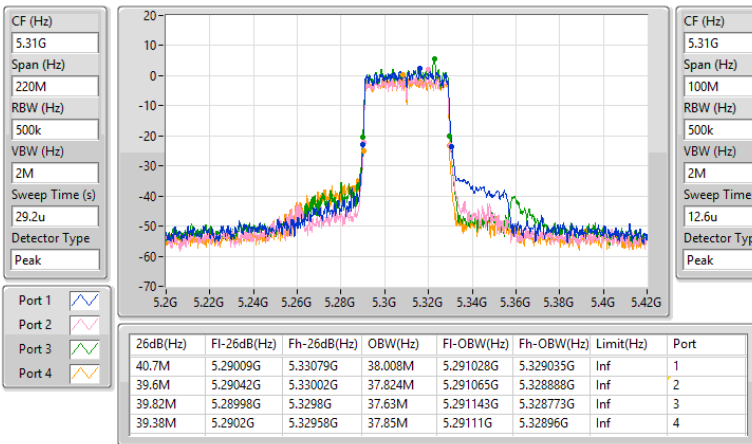


5.25-5.35GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

5310MHz

26/11/2024

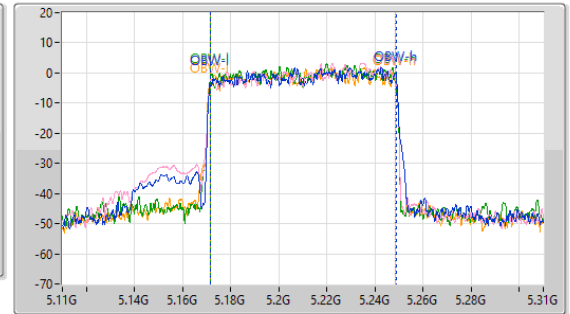
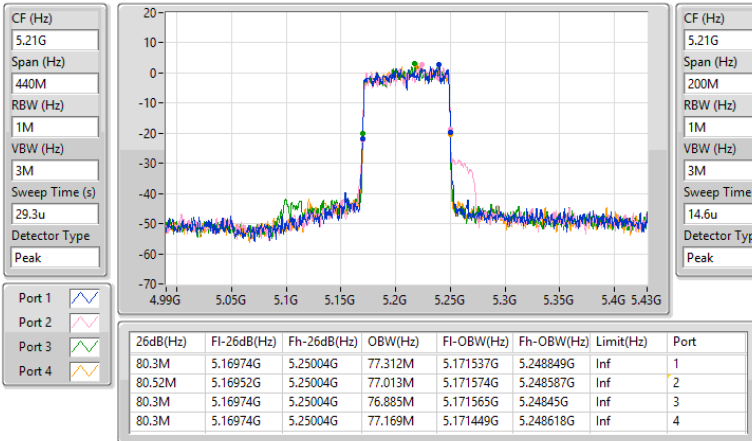


5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5210MHz

26/11/2024

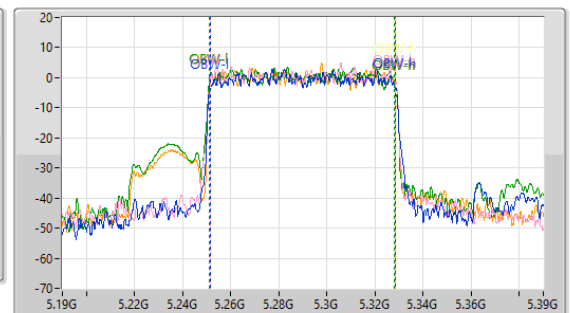
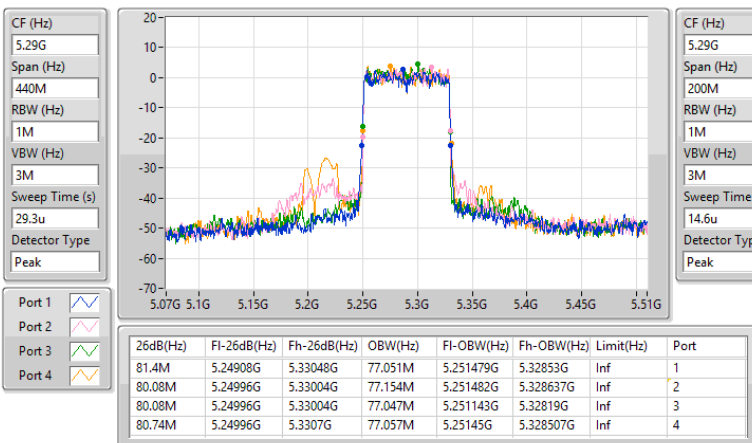


5.25-5.35GHz_802.11be EHT80_Nss1,(MCS0)_4TX

EBW

5290MHz

26/11/2024

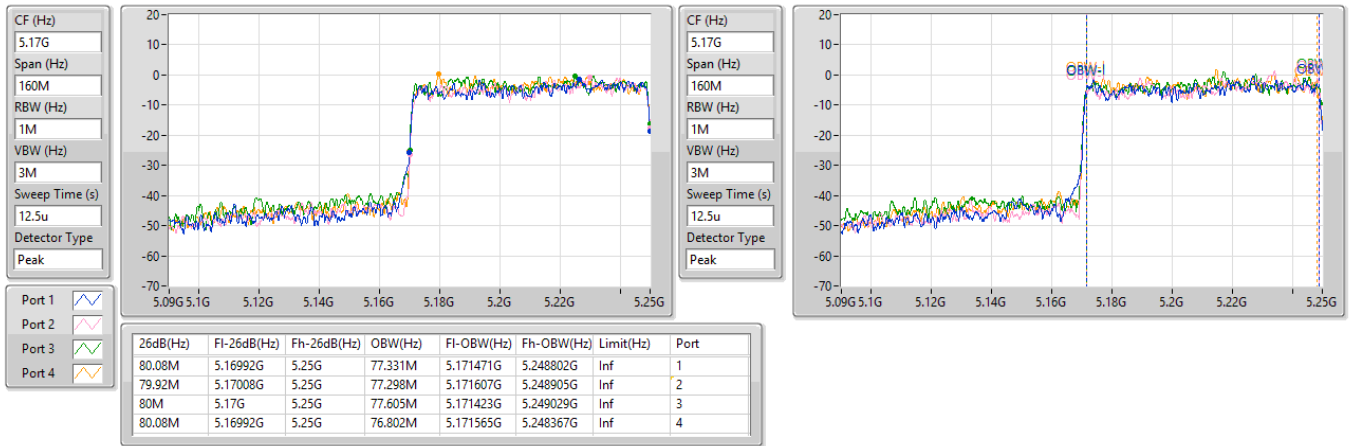


5.15-5.25GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

26/11/2024

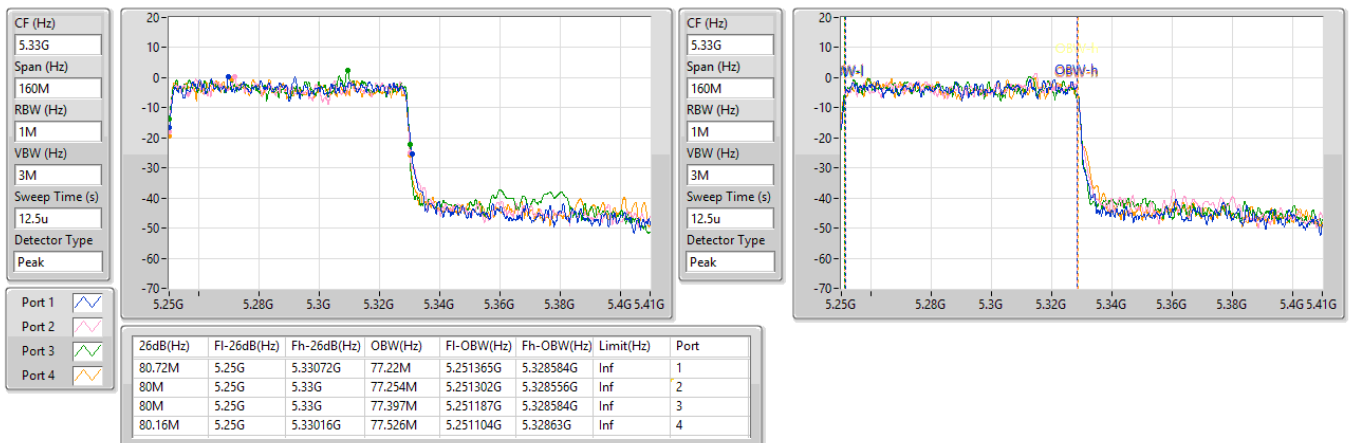


5.25-5.35GHz_802.11be EHT160_Nss1,(MCS0)_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

26/11/2024



Test Mode: Mode 3
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	37.29M	18.449M	18M4D1D	20.405M	16.564M
802.11be EHT20_Nss1,(MCS0)_2TX	43.12M	19.763M	19M8D1D	20.9M	18.977M
802.11be EHT40_Nss1,(MCS0)_2TX	40.7M	37.831M	37M8D1D	40.26M	37.655M
802.11be EHT80_Nss1,(MCS0)_2TX	81.62M	77.176M	77M2D1D	81.4M	77.165M
802.11be EHT160_Nss1,(MCS0)_2TX	80.88M	77.306M	77M3D1D	80.4M	77.123M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	30.25M	16.837M	16M8D1D	21.065M	16.556M
802.11be EHT20_Nss1,(MCS0)_2TX	28.71M	19.077M	19M1D1D	20.845M	18.947M
802.11be EHT40_Nss1,(MCS0)_2TX	40.92M	37.802M	37M8D1D	39.93M	37.698M
802.11be EHT80_Nss1,(MCS0)_2TX	81.84M	77.169M	77M2D1D	80.74M	77.097M
802.11be EHT160_Nss1,(MCS0)_2TX	81.44M	77.269M	77M3D1D	80.8M	77.205M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.955M	16.702M	16M7D1D	16.575M	13.321M
802.11be EHT20_Nss1,(MCS0)_2TX	22.33M	19.031M	19M0D1D	15.675M	14.531M
802.11be EHT40_Nss1,(MCS0)_2TX	49.63M	37.781M	37M8D1D	35.35M	33.724M
802.11be EHT80_Nss1,(MCS0)_2TX	92.25M	77.183M	77M2D1D	80.96M	73.172M
802.11be EHT160_Nss1,(MCS0)_2TX	163.24M	156.302M	156MD1D	162.36M	156.104M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.335M	28.612M	28M6D1D	3.24M	4.03M
802.11be EHT20_Nss1,(MCS0)_2TX	18.865M	32.53M	32M5D1D	4.5M	4.564M
802.11be EHT40_Nss1,(MCS0)_2TX	37.73M	43.97M	44M0D1D	3.74M	4.366M
802.11be EHT80_Nss1,(MCS0)_2TX	76.34M	77.172M	77M2D1D	3.58M	13.637M

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

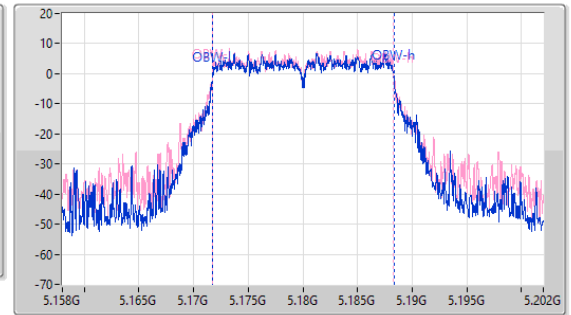
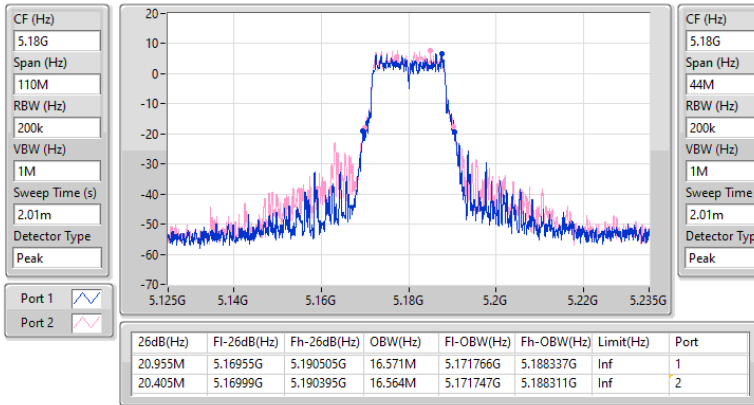
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.955M	16.571M	20.405M	16.564M
5200MHz	Pass	Inf	21.725M	16.801M	20.625M	16.741M
5240MHz	Pass	Inf	31.735M	17.059M	37.29M	18.449M
5260MHz	Pass	Inf	25.575M	16.706M	30.25M	16.694M
5300MHz	Pass	Inf	25.025M	16.837M	25.025M	16.655M
5320MHz	Pass	Inf	21.725M	16.689M	21.065M	16.556M
5500MHz	Pass	Inf	20.625M	16.629M	20.845M	16.543M
5580MHz	Pass	Inf	20.735M	16.685M	20.625M	16.702M
5700MHz	Pass	Inf	20.955M	16.578M	20.68M	16.579M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.575M	13.347M	16.83M	13.321M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.28M	4.05M	3.24M	4.03M
5745MHz	Pass	500k	15.73M	28.612M	15.29M	28.158M
5785MHz	Pass	500k	15.345M	28.132M	16.335M	28.421M
5825MHz	Pass	500k	15.07M	27.696M	16.06M	28.116M
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.34M	19.002M	20.9M	18.982M
5200MHz	Pass	Inf	21.01M	18.993M	24.915M	18.977M
5240MHz	Pass	Inf	33.495M	19.178M	43.12M	19.763M
5260MHz	Pass	Inf	28.71M	19.077M	25.355M	19.061M
5300MHz	Pass	Inf	22.495M	19.036M	22.165M	18.998M
5320MHz	Pass	Inf	21.175M	18.982M	20.845M	18.947M
5500MHz	Pass	Inf	21.505M	18.952M	21.065M	18.986M
5580MHz	Pass	Inf	21.175M	18.99M	22.33M	19.031M
5700MHz	Pass	Inf	21.175M	18.972M	21.34M	18.997M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.675M	14.559M	20.895M	14.531M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.564M	4.5M	4.626M
5745MHz	Pass	500k	16.555M	26.615M	18.865M	26.615M
5785MHz	Pass	500k	17.655M	32.209M	17.05M	32.53M
5825MHz	Pass	500k	17.49M	31.923M	15.51M	32.173M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.7M	37.655M	40.59M	37.753M
5230MHz	Pass	Inf	40.7M	37.702M	40.26M	37.831M
5270MHz	Pass	Inf	40.04M	37.75M	40.04M	37.802M
5310MHz	Pass	Inf	40.92M	37.698M	39.93M	37.768M
5510MHz	Pass	Inf	40.7M	37.781M	39.93M	37.721M
5550MHz	Pass	Inf	41.25M	37.678M	40.04M	37.725M
5670MHz	Pass	Inf	40.04M	37.739M	40.48M	37.711M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.35M	33.724M	49.63M	33.786M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	4.366M	3.82M	14.695M
5755MHz	Pass	500k	37.62M	37.76M	37.62M	37.94M
5795MHz	Pass	500k	37.4M	38.411M	37.73M	43.97M
802.11be EHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.62M	77.165M	81.4M	77.176M
5290MHz	Pass	Inf	81.84M	77.097M	80.74M	77.169M
5530MHz	Pass	Inf	80.96M	77.183M	81.18M	77.013M
5610MHz	Pass	Inf	81.84M	77.102M	81.62M	77.169M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	92.25M	73.172M	92.25M	73.383M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	13.637M	3.58M	23.289M
5775MHz	Pass	500k	75.9M	77.172M	76.34M	77.072M
802.11be EHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.4M	77.306M	80.88M	77.123M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	77.205M	80.8M	77.269M
5570MHz	Pass	Inf	163.24M	156.104M	162.36M	156.302M

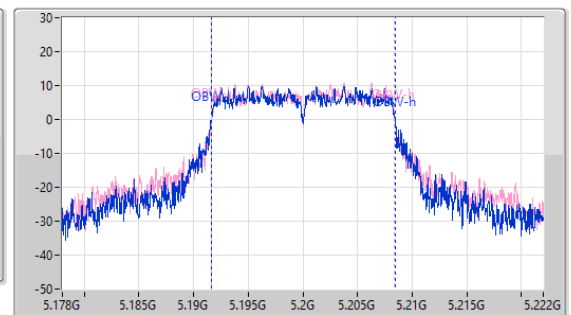
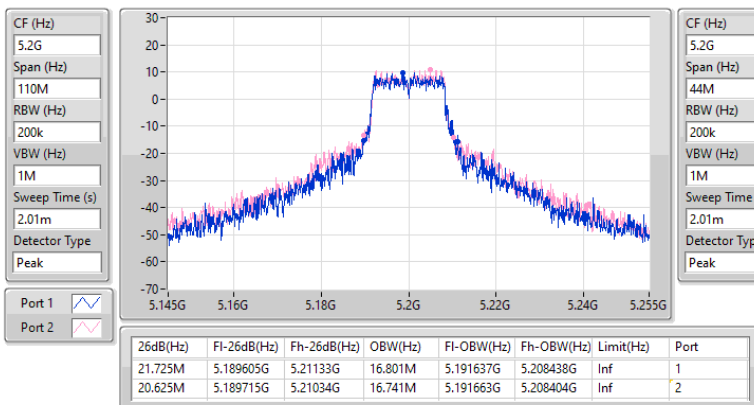
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

14/11/2024

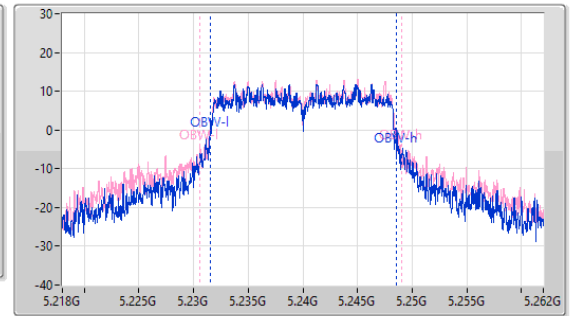
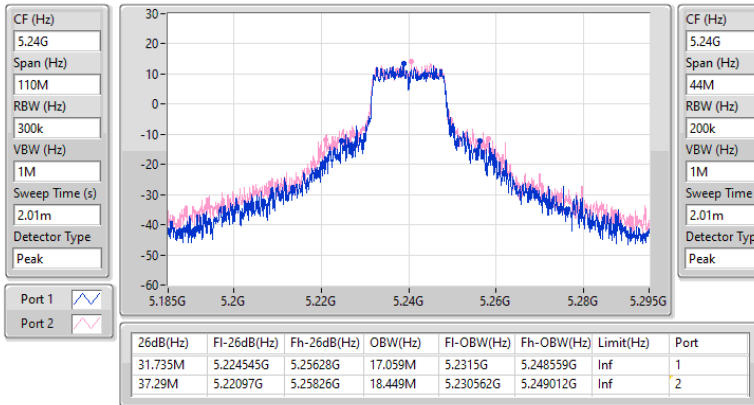

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

14/11/2024

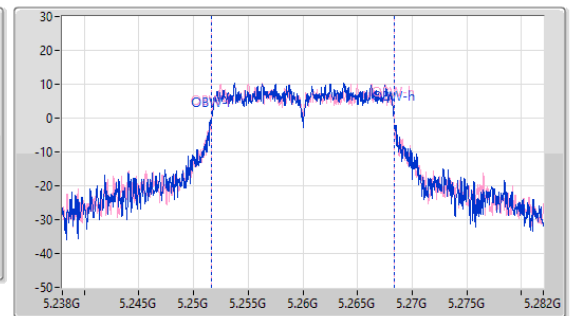
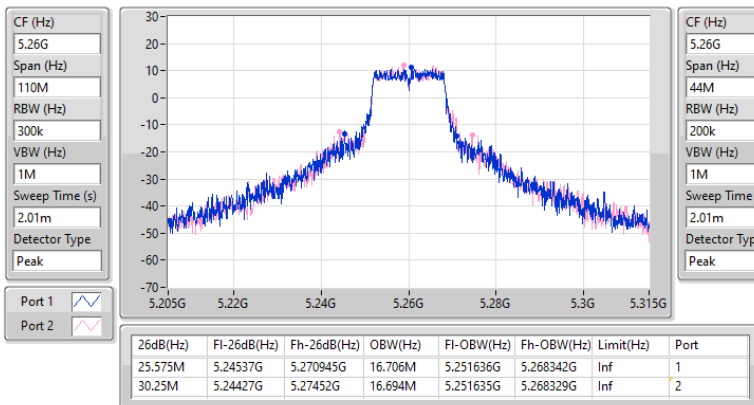


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

14/11/2024

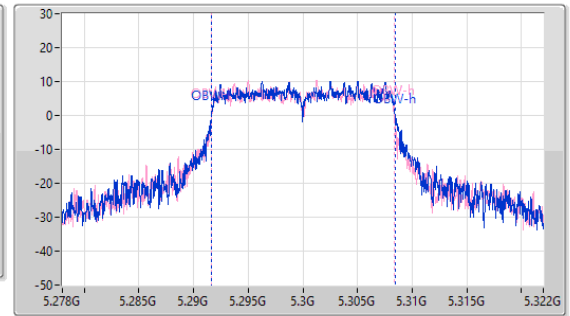
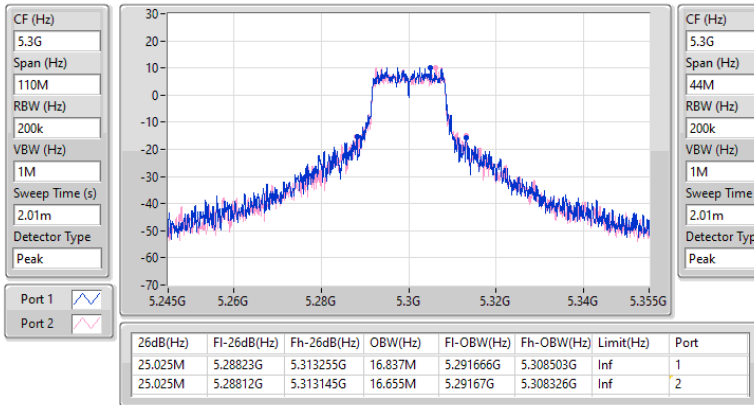

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

14/11/2024

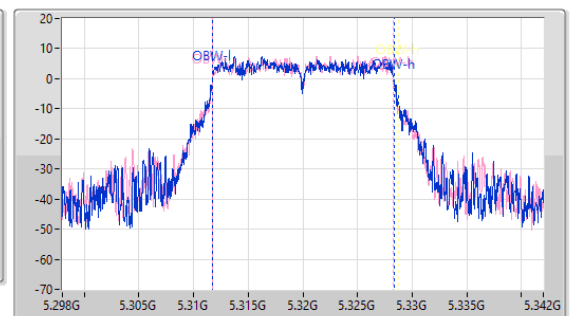
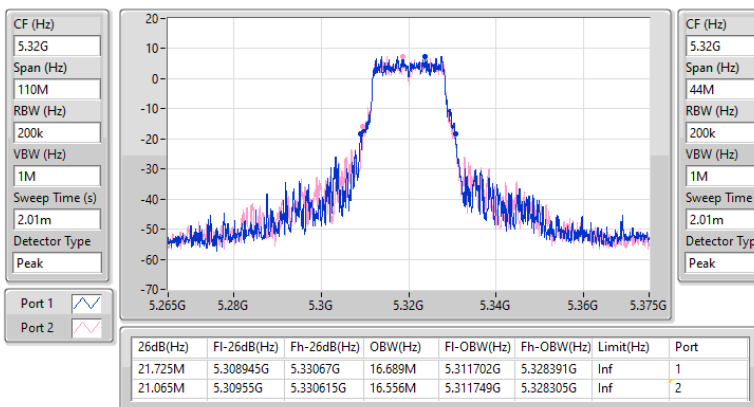


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

14/11/2024

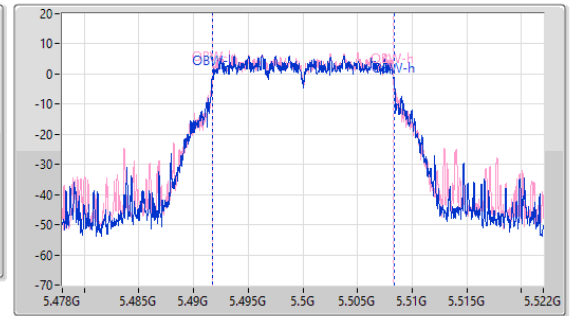
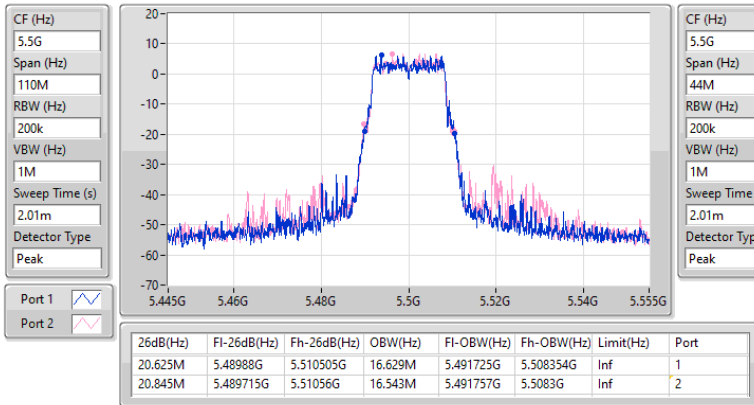

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

14/11/2024

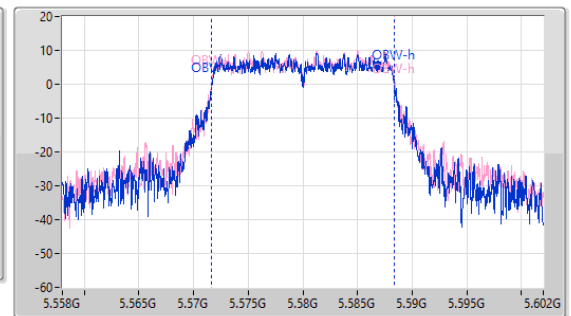
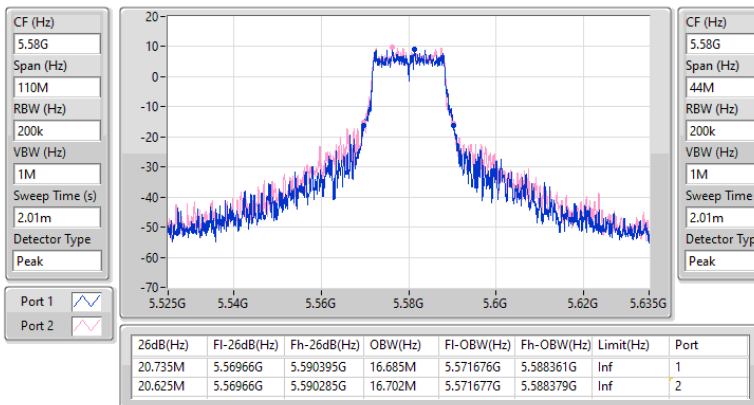


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

14/11/2024

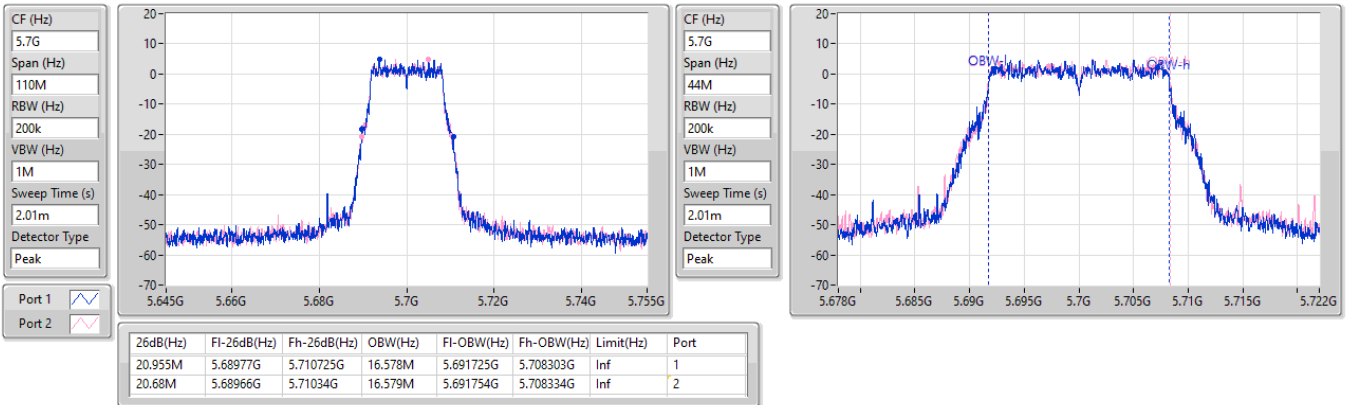

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

14/11/2024

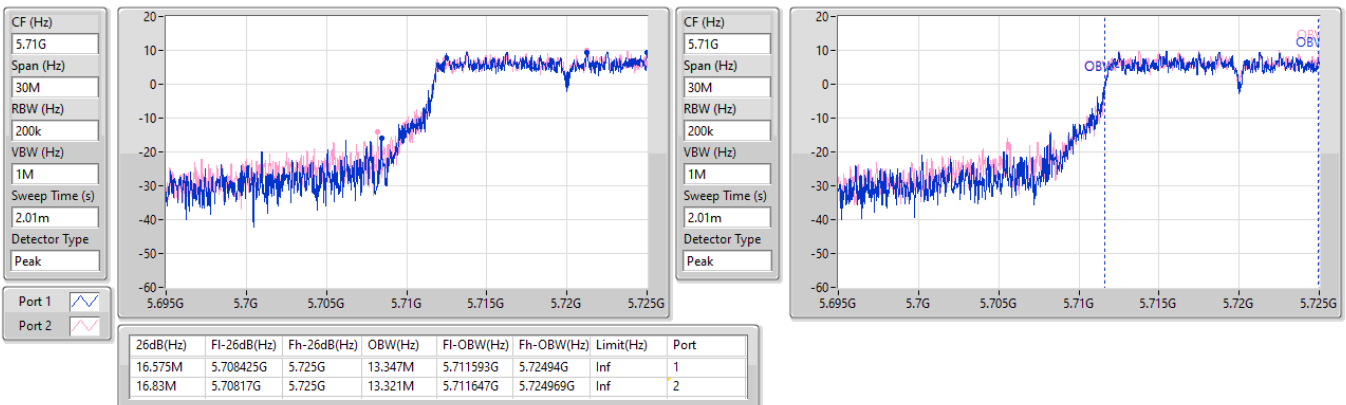


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

14/11/2024


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

14/11/2024

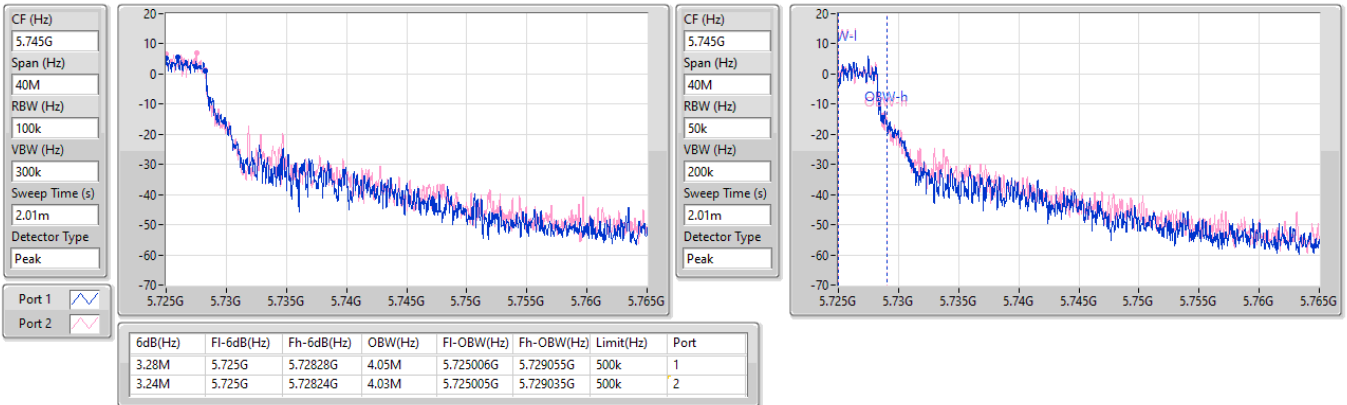


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

14/11/2024

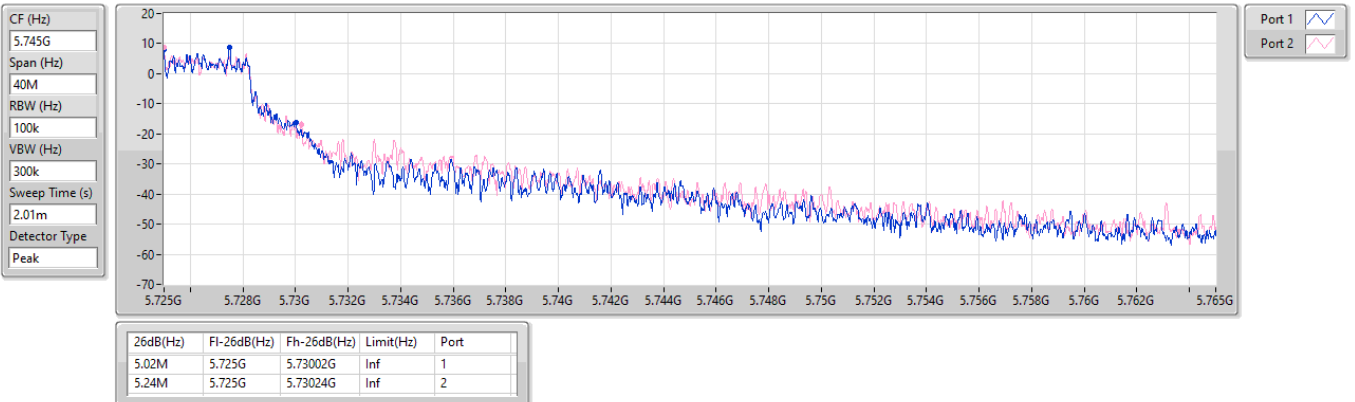


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

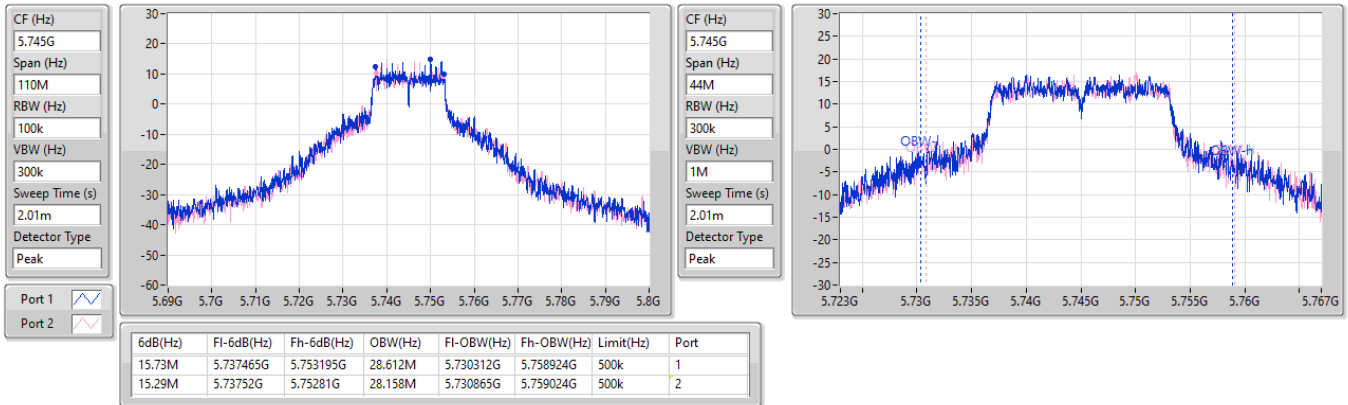
5720MHz Straddle 5.725-5.85GHz

14/11/2024

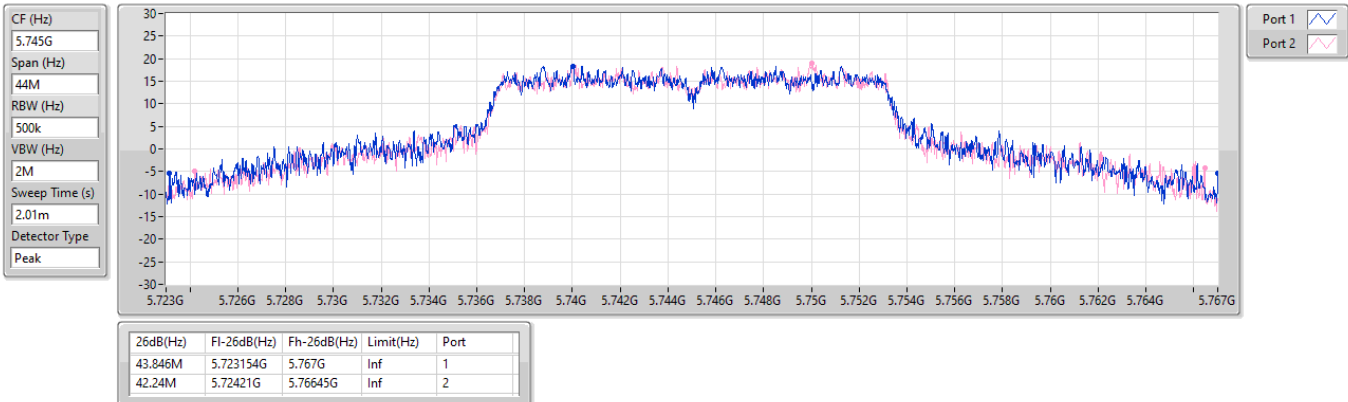


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

14/11/2024


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

14/11/2024

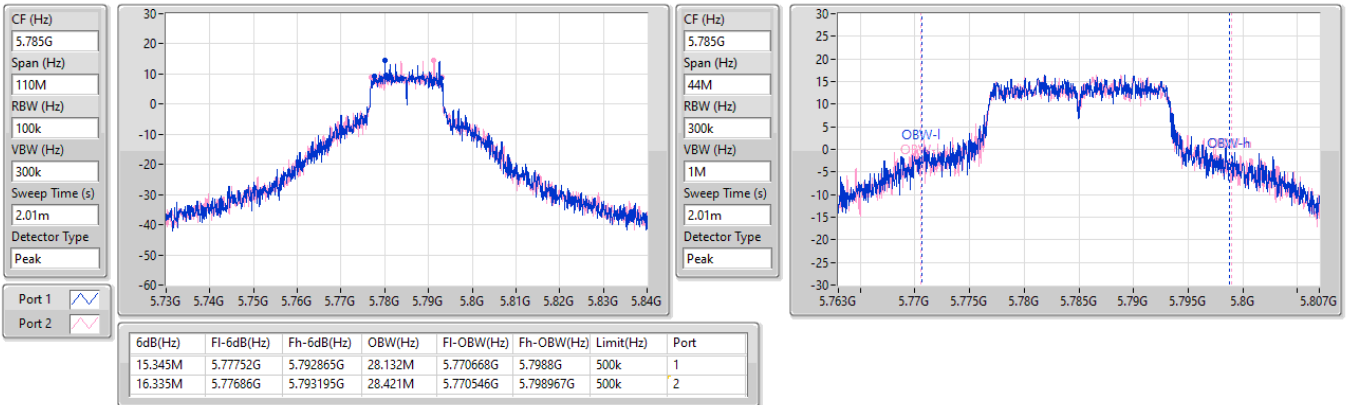


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

14/11/2024

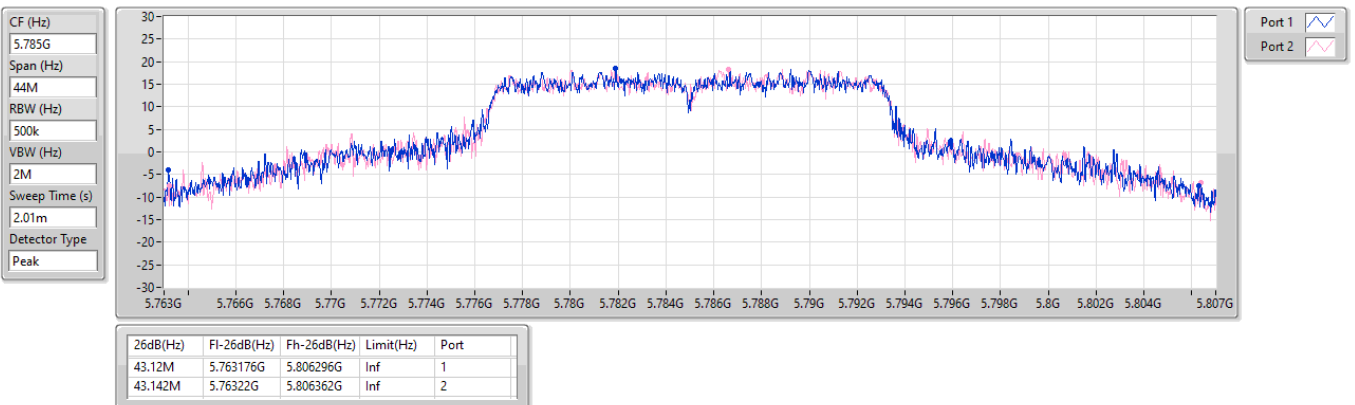


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

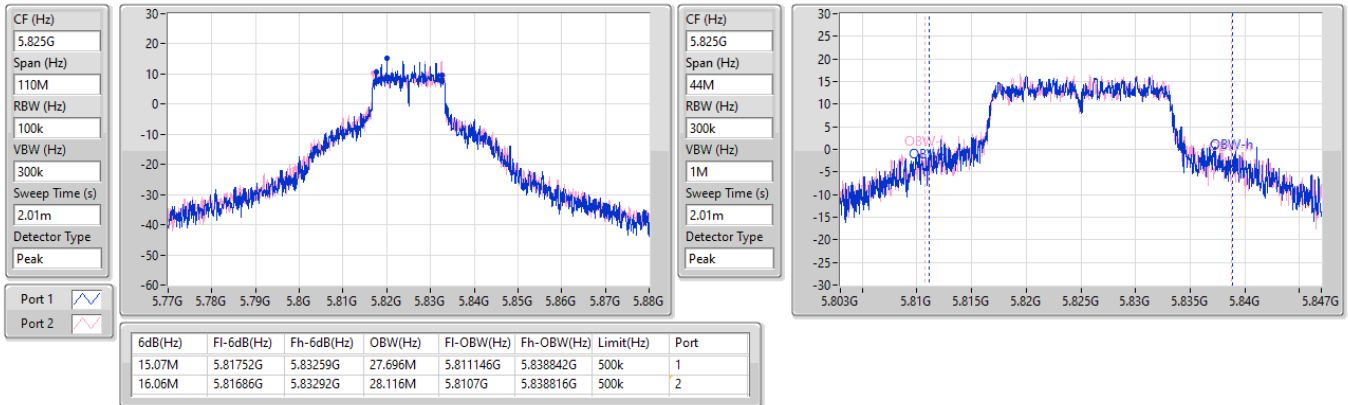
5785MHz

14/11/2024

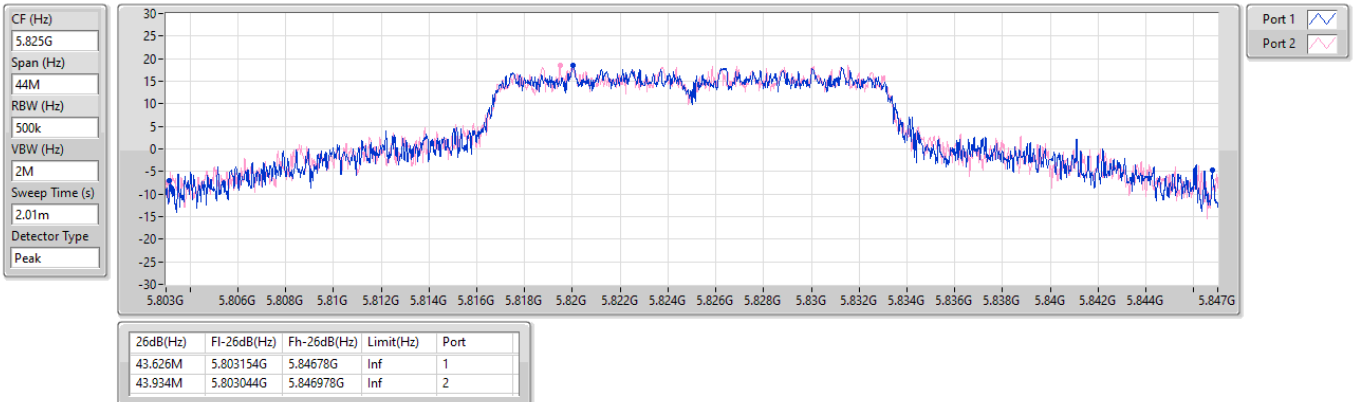


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

14/11/2024

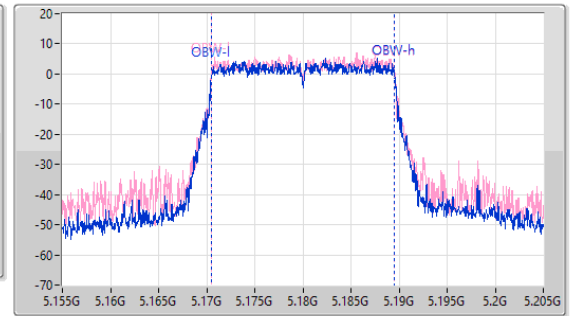
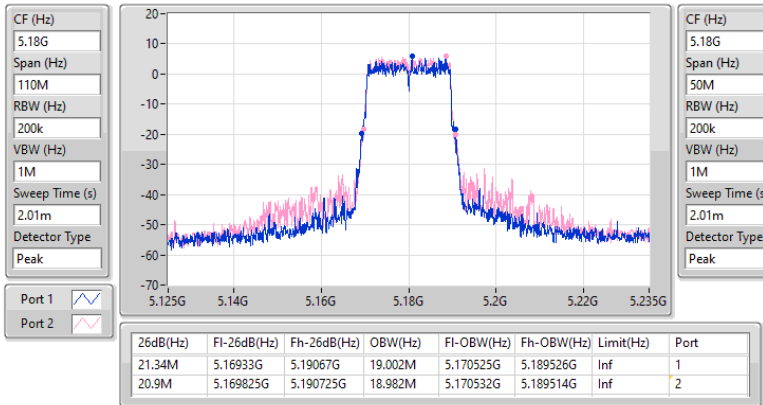

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

14/11/2024

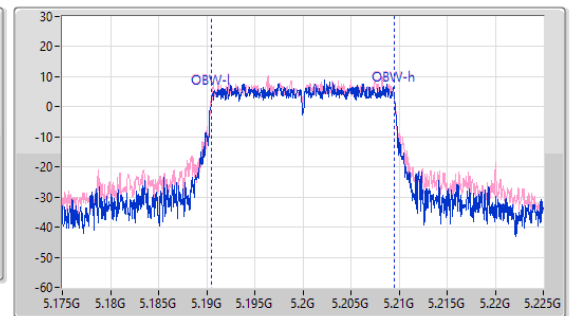
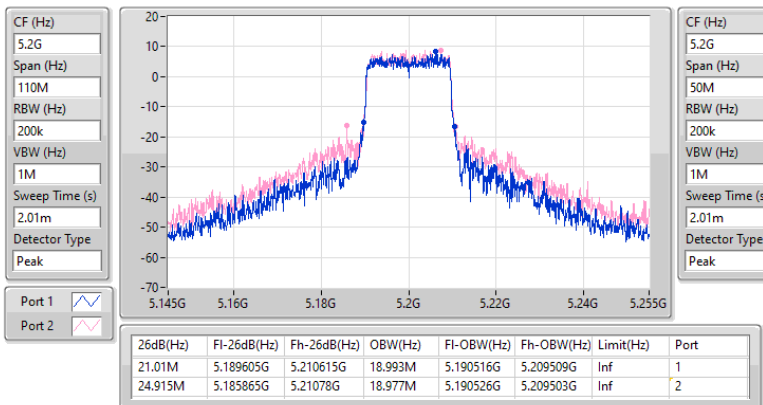


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

14/11/2024

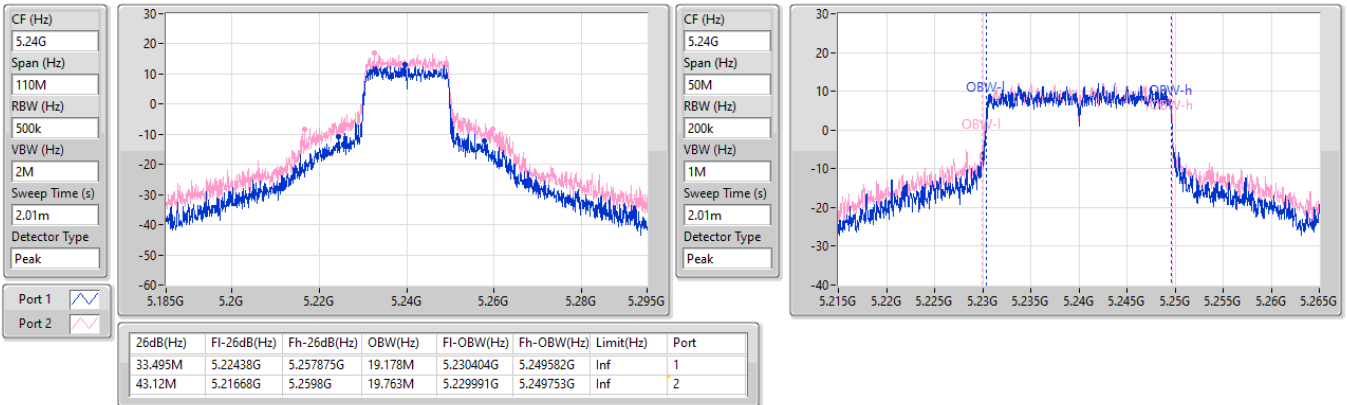

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EBW
5200MHz

14/11/2024

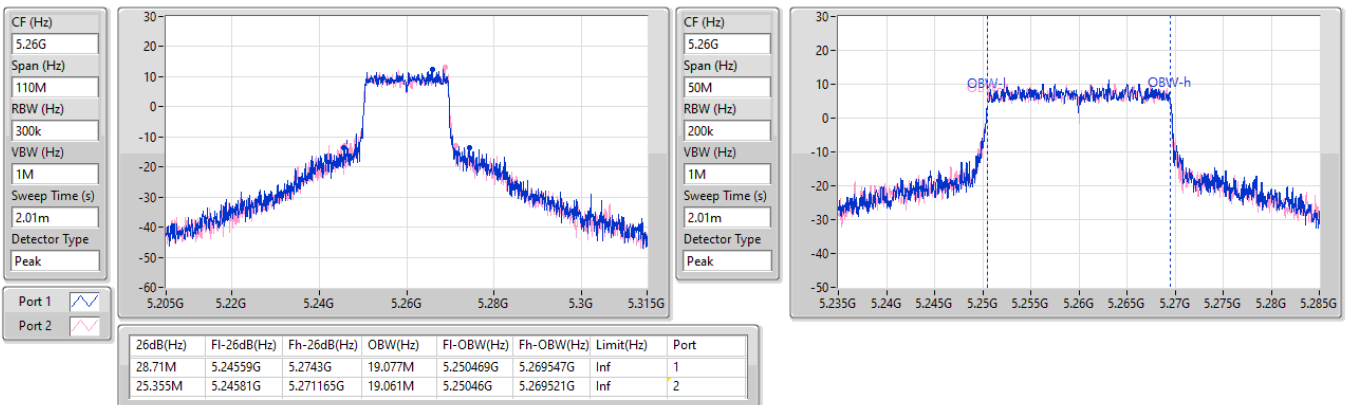


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5240MHz

14/11/2024

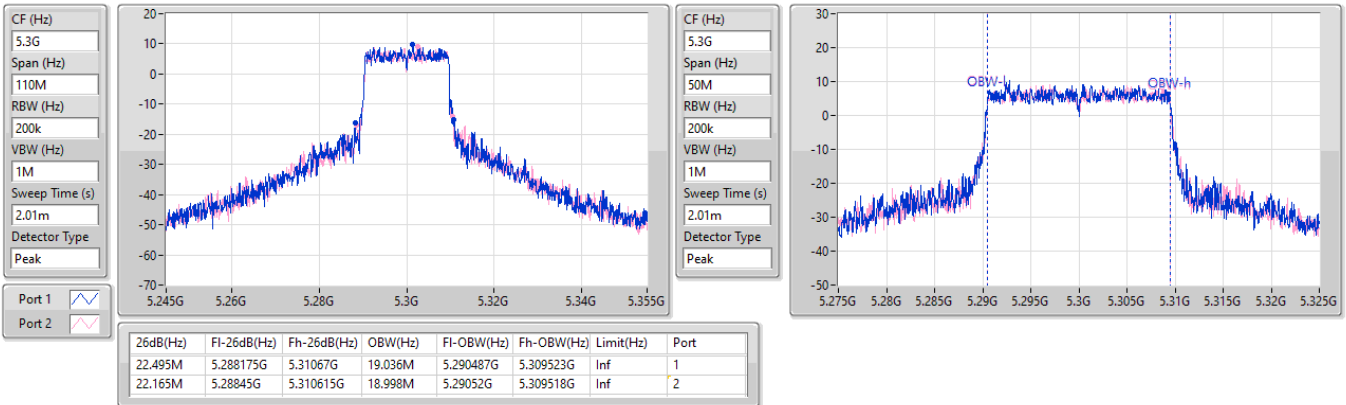

5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5260MHz

14/11/2024

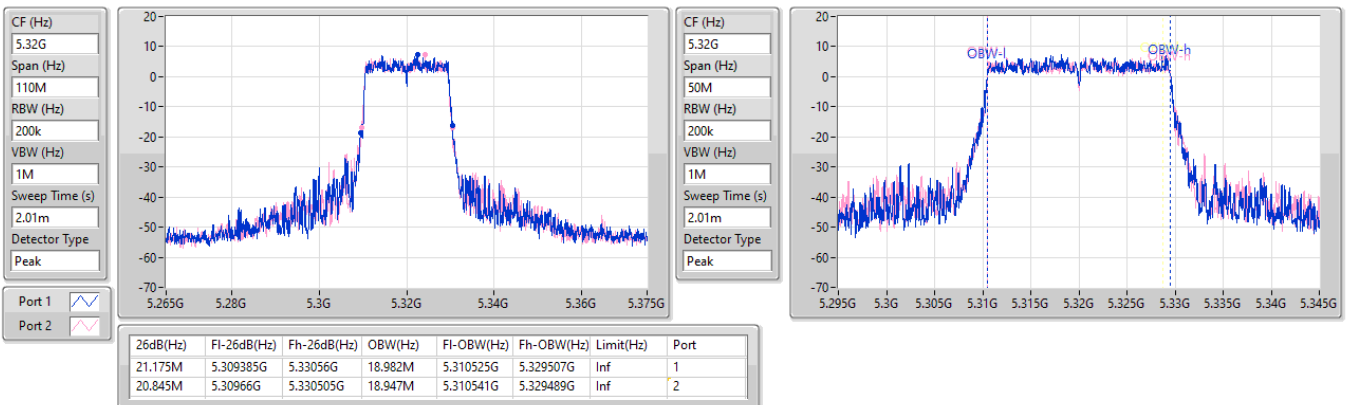


5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5300MHz

14/11/2024

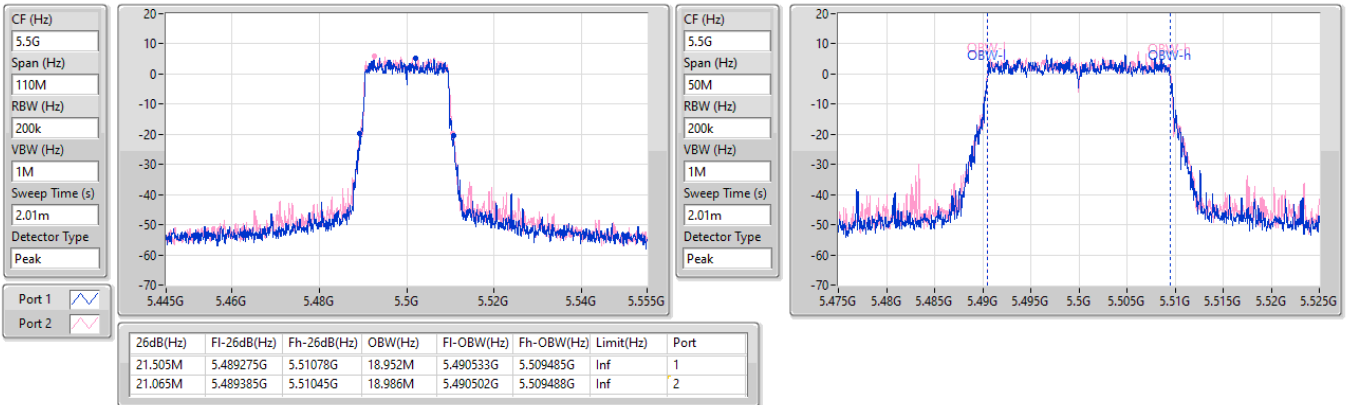

5.25-5.35GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5320MHz

14/11/2024

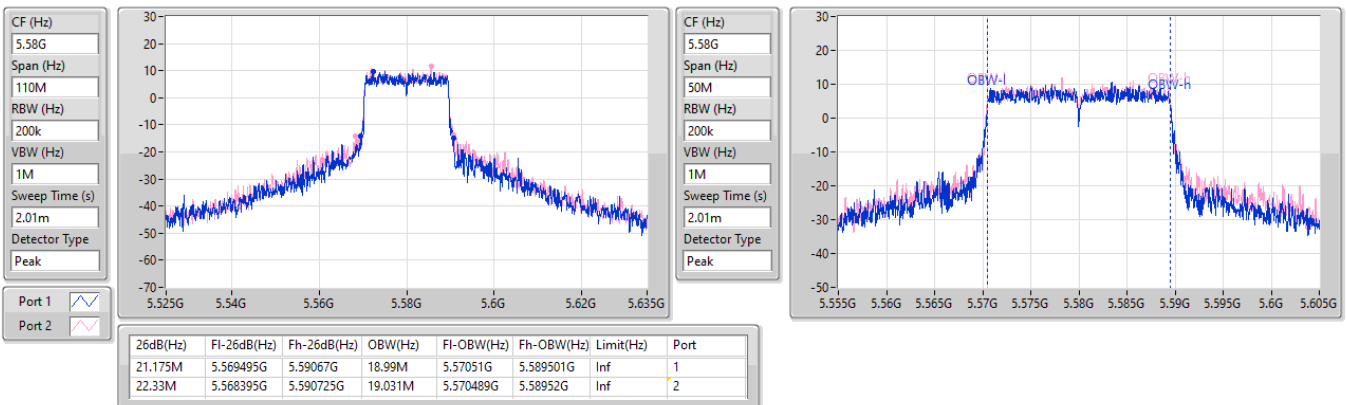


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5500MHz

14/11/2024


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5580MHz

14/11/2024

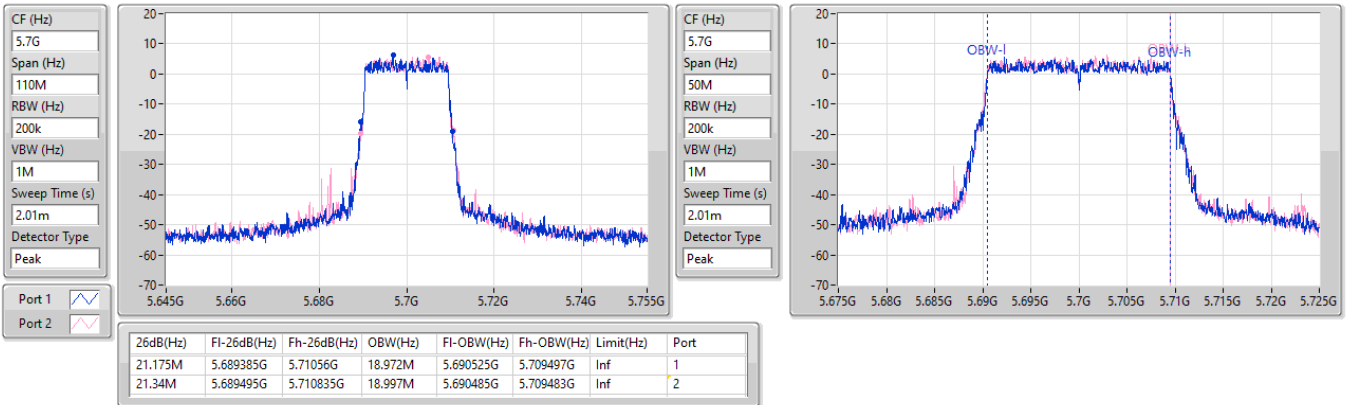


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5700MHz

14/11/2024

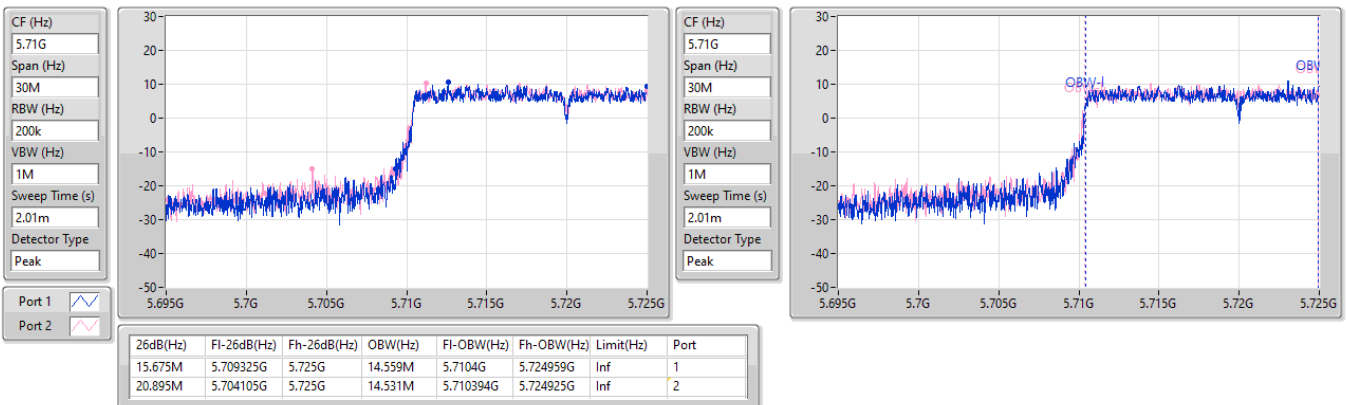


5.47-5.725GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

14/11/2024

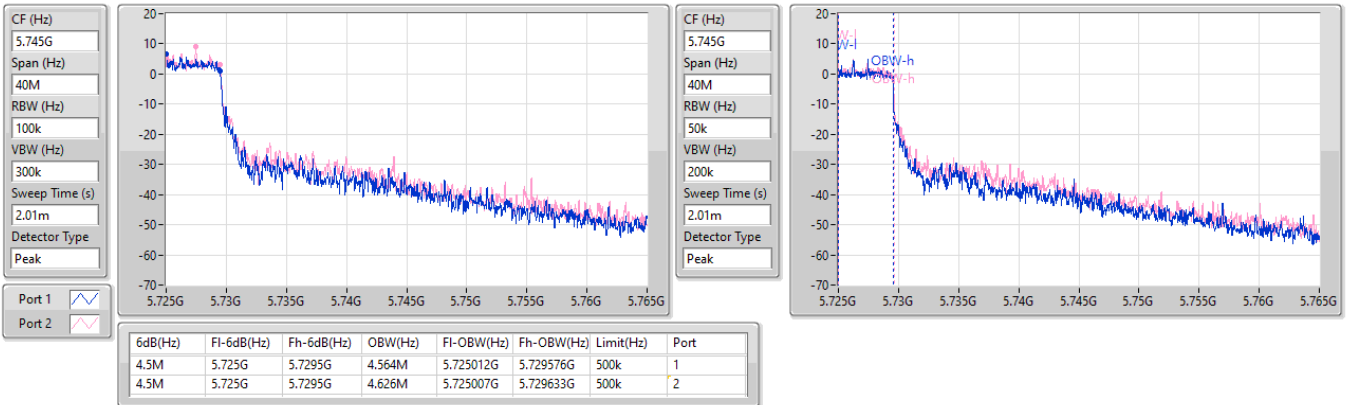


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

14/11/2024

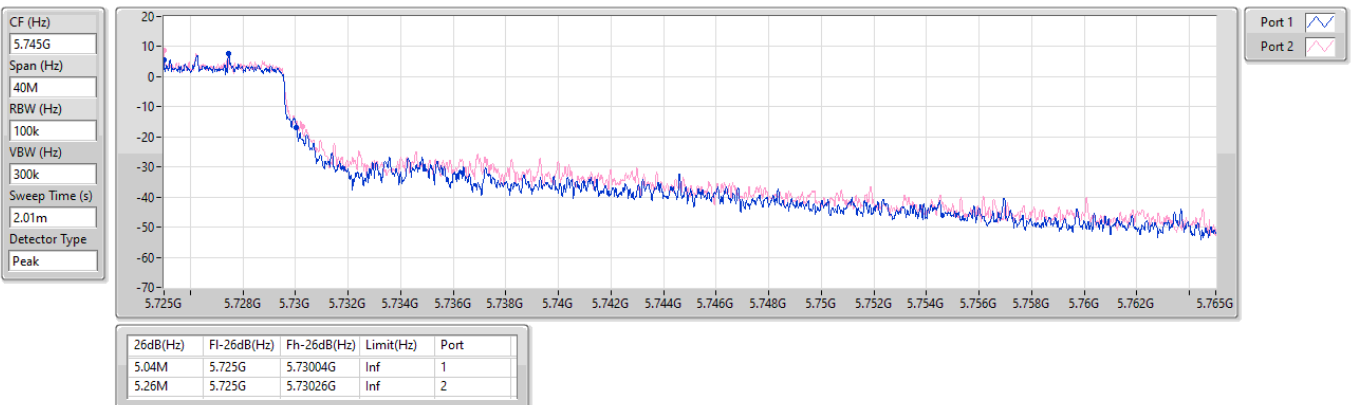


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

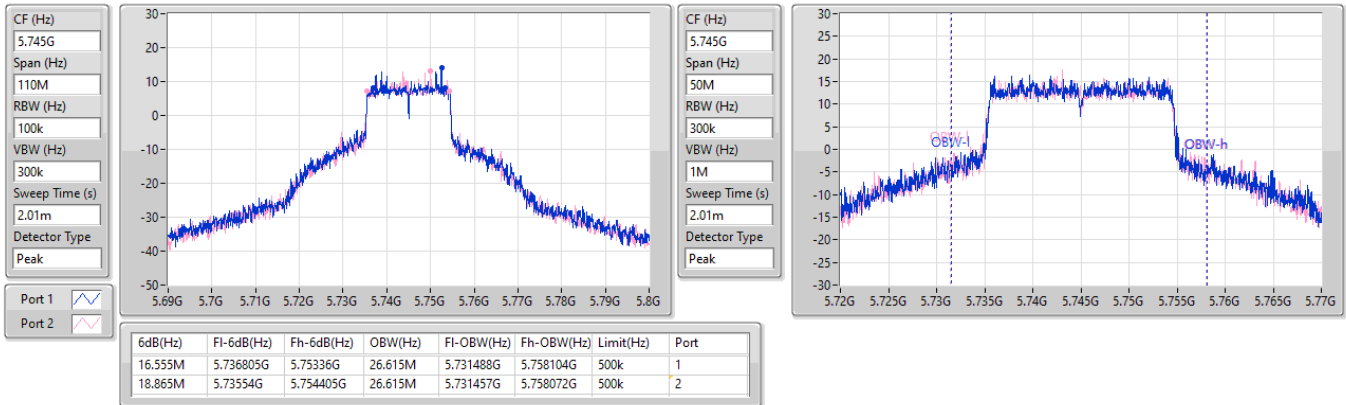
5720MHz Straddle 5.725-5.85GHz

14/11/2024

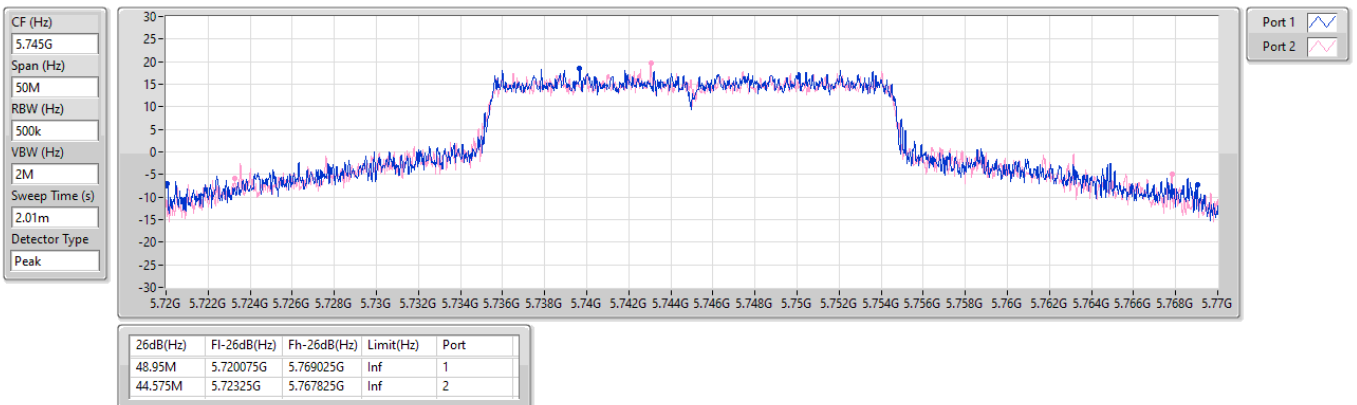


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

14/11/2024


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

14/11/2024

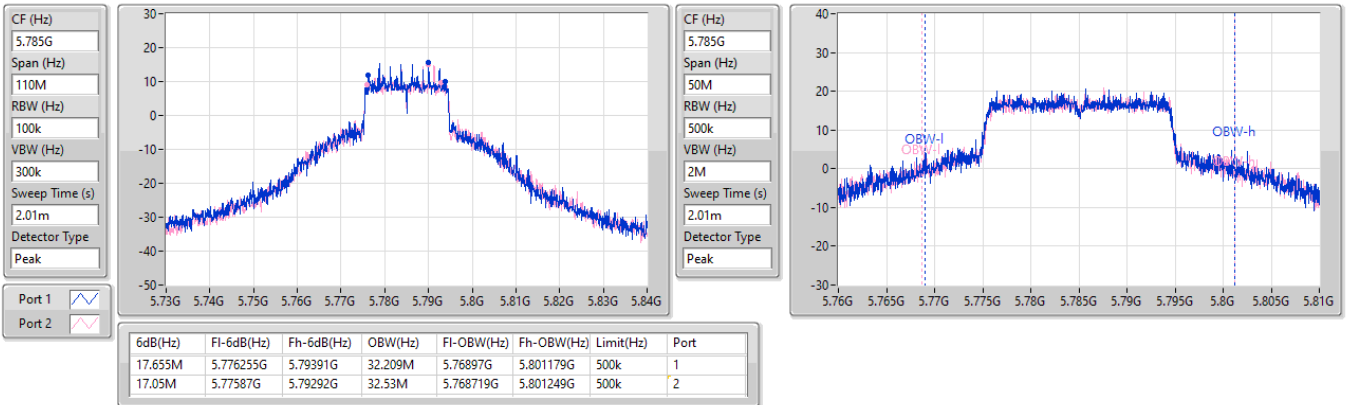


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

14/11/2024

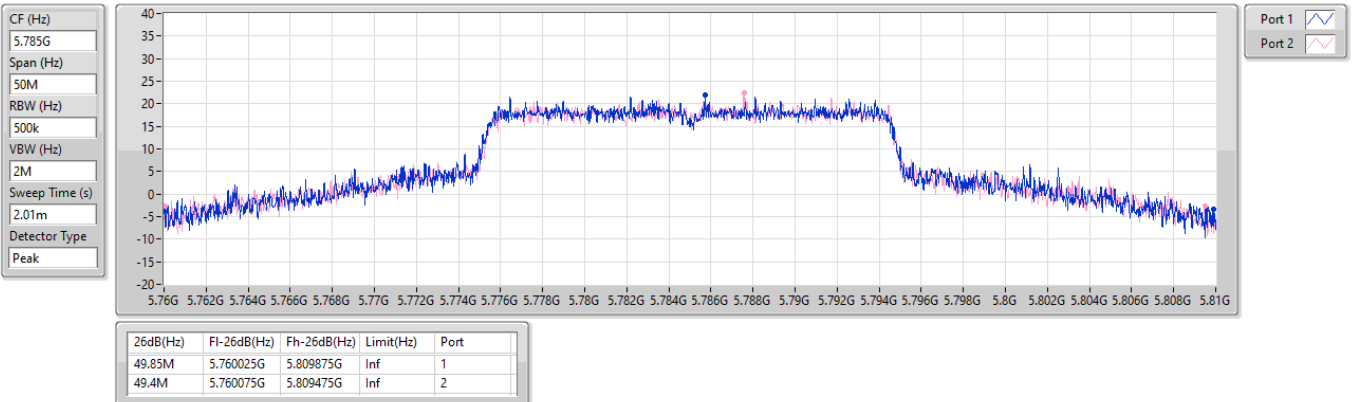


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

14/11/2024

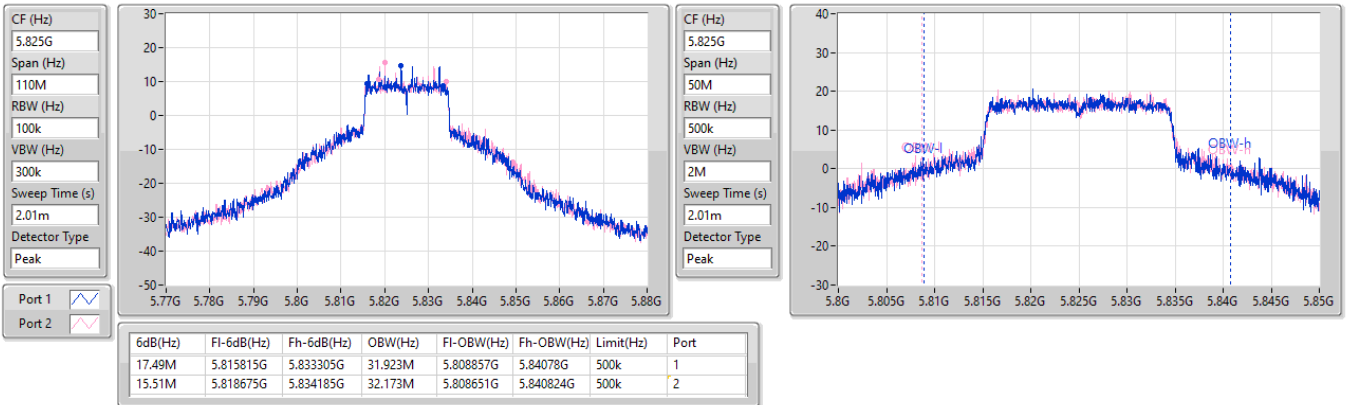


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

14/11/2024

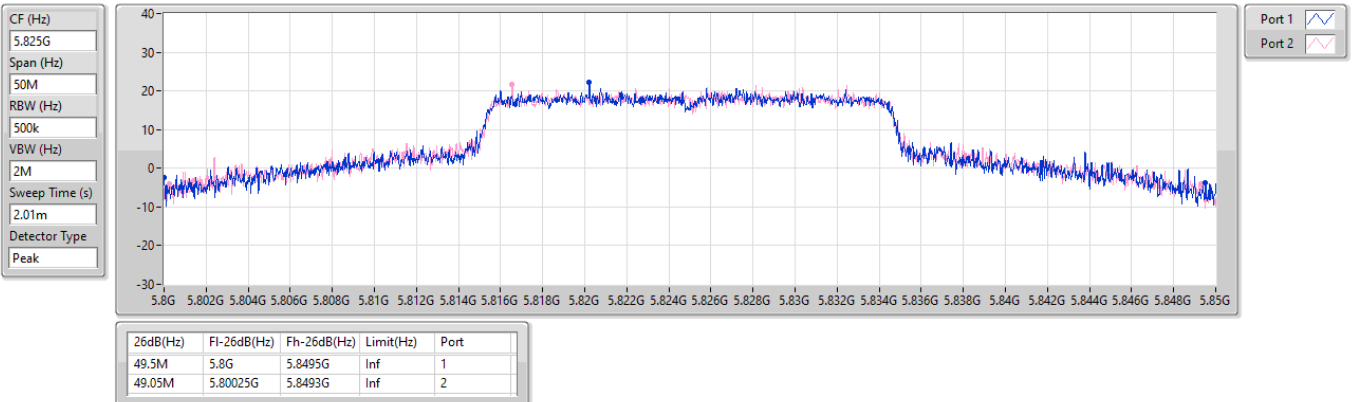


5.725-5.85GHz_802.11be EHT20_Nss1,(MCS0)_2TX

EBW

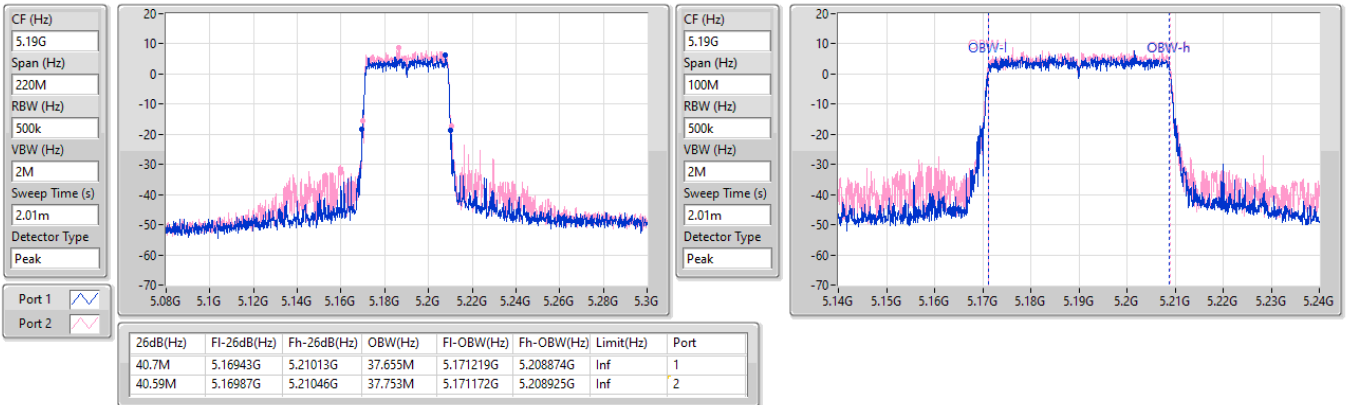
5825MHz

14/11/2024

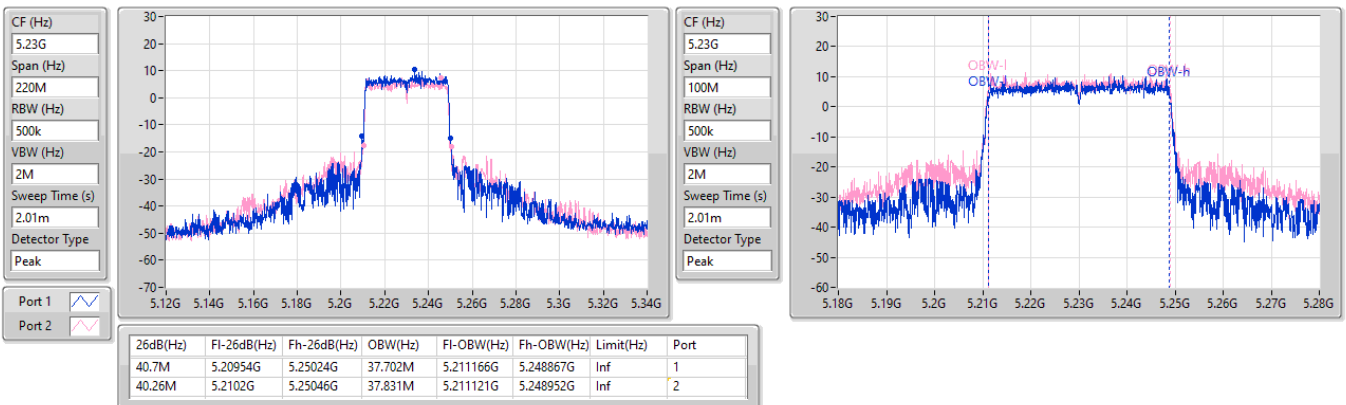


5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

14/11/2024


5.15-5.25GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

14/11/2024

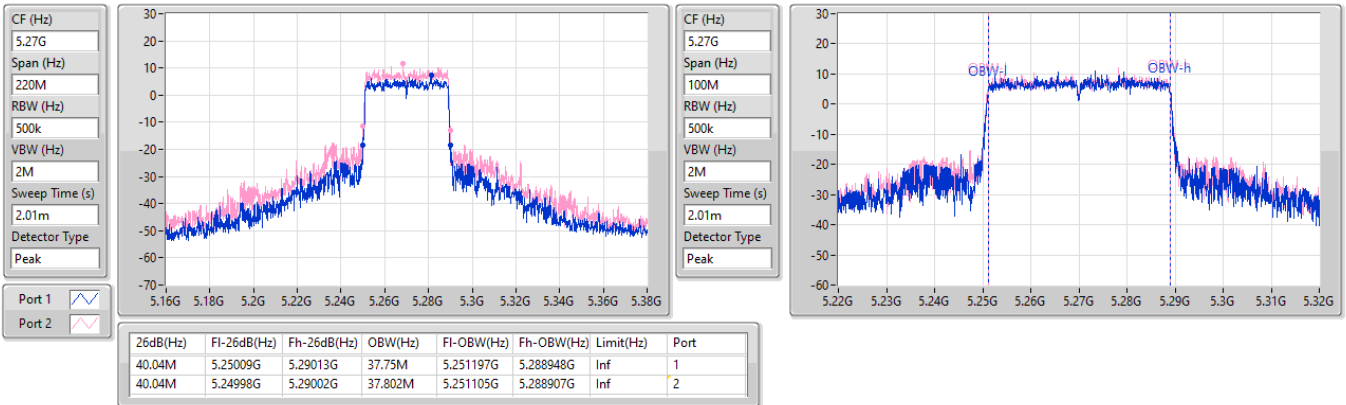


5.25-5.35GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5270MHz

14/11/2024

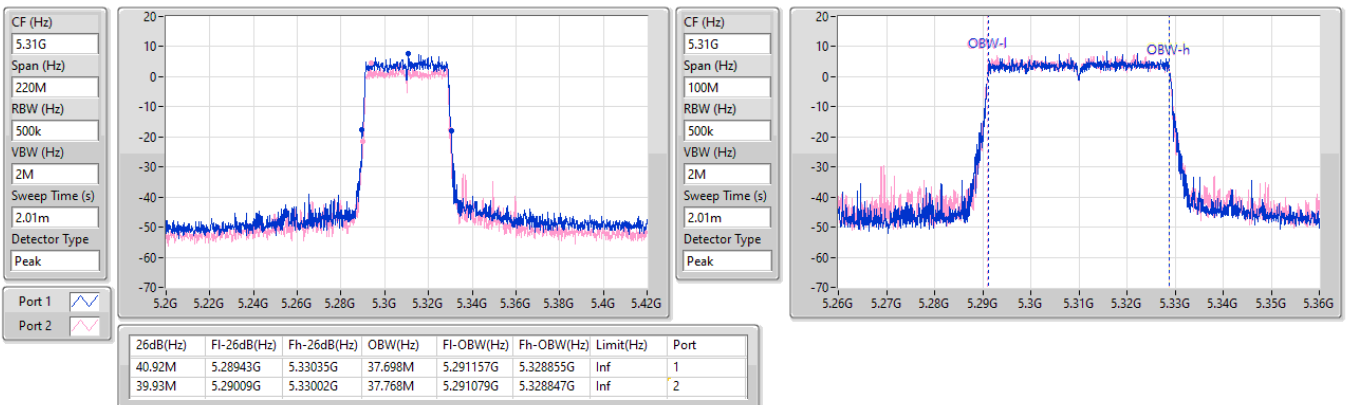


5.25-5.35GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5310MHz

14/11/2024

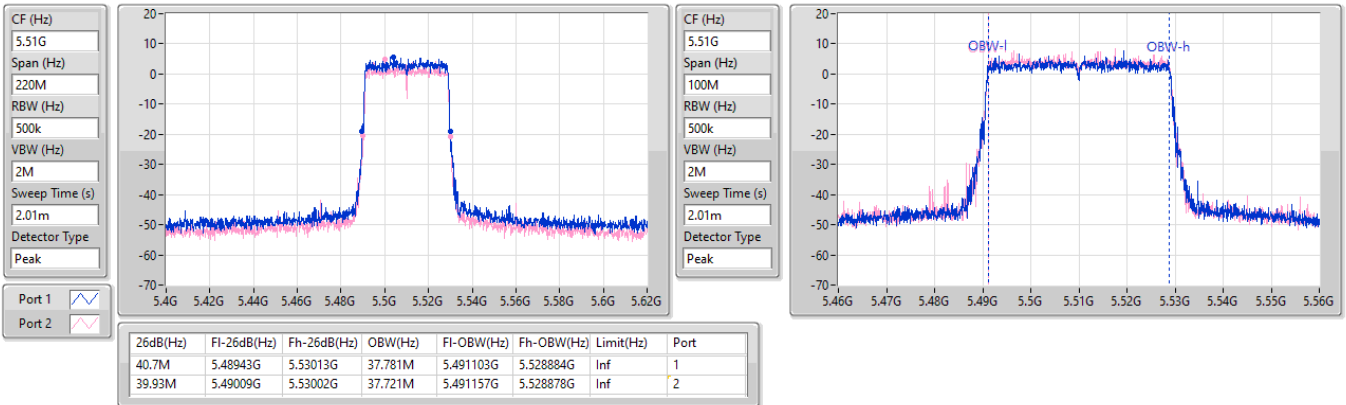


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5510MHz

14/11/2024

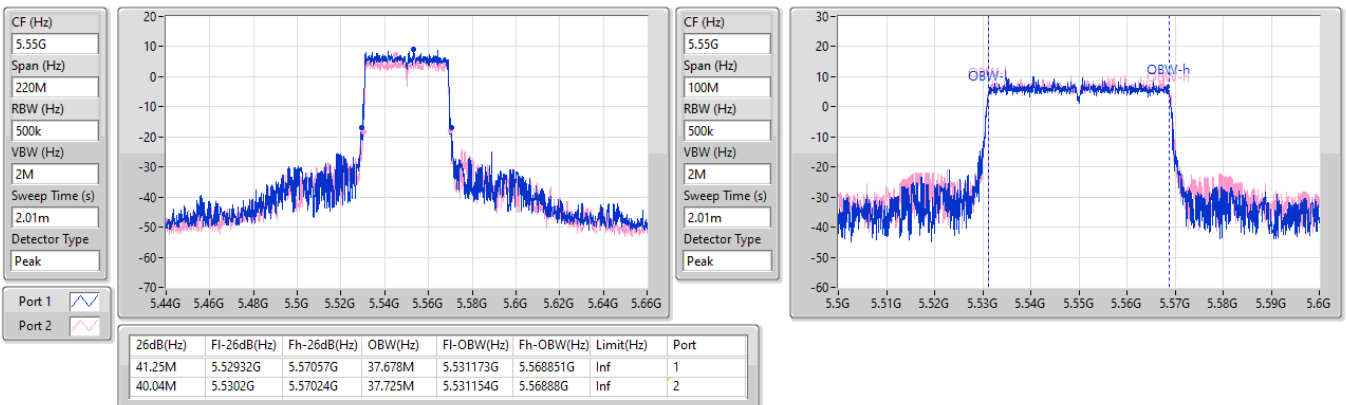


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5550MHz

14/11/2024

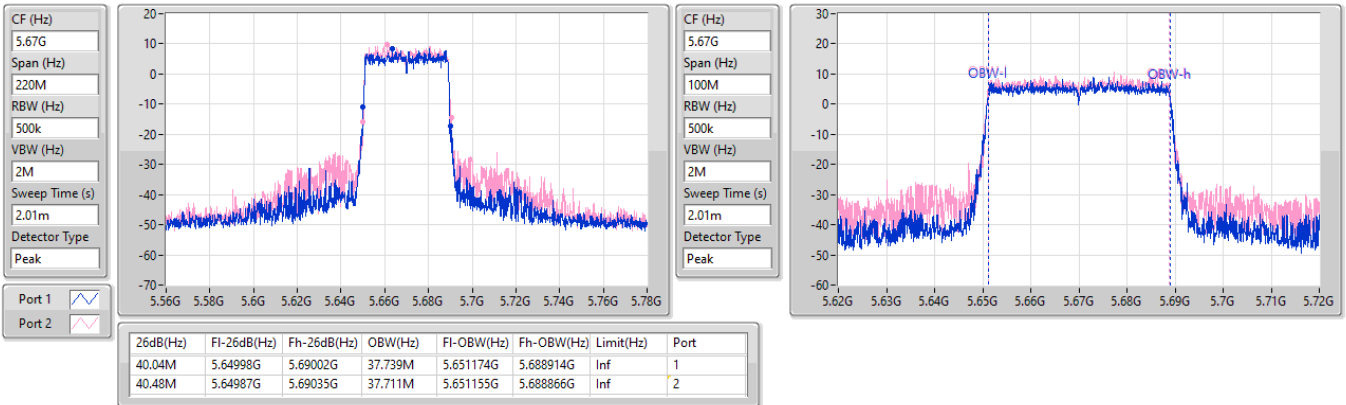


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

5670MHz

14/11/2024

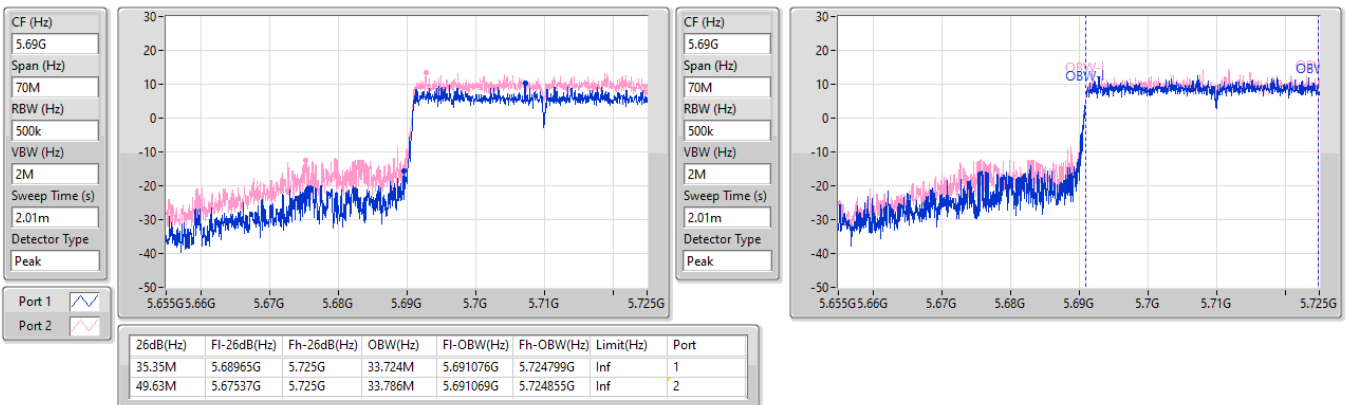


5.47-5.725GHz_802.11be EHT40_Nss1,(MCS0)_2TX

EBW

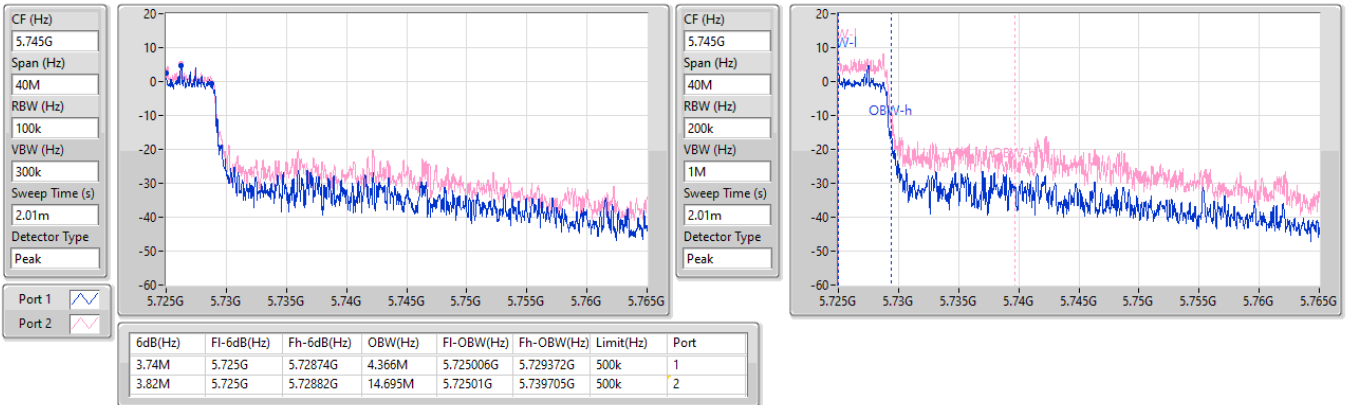
5710MHz Straddle 5.47-5.725GHz

14/11/2024

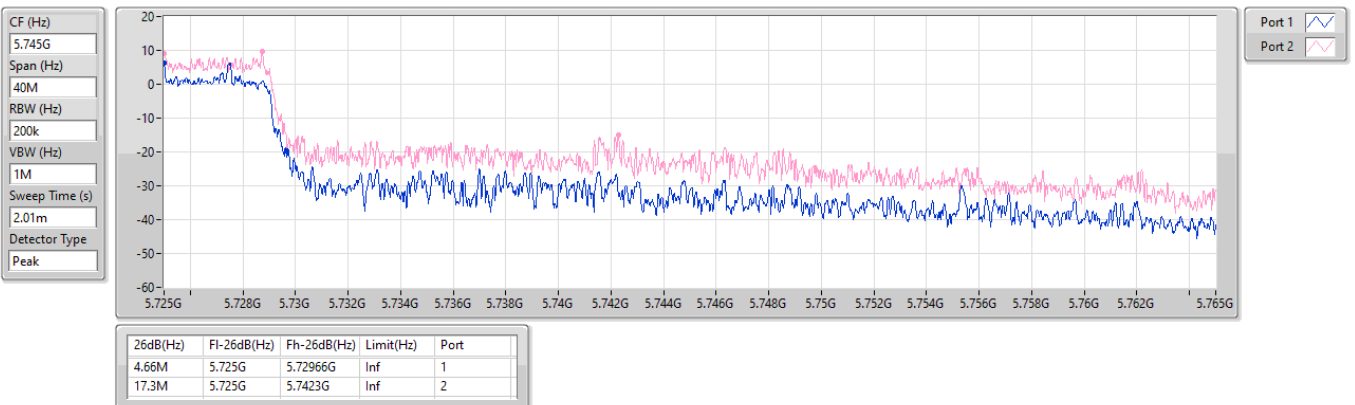


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

14/11/2024

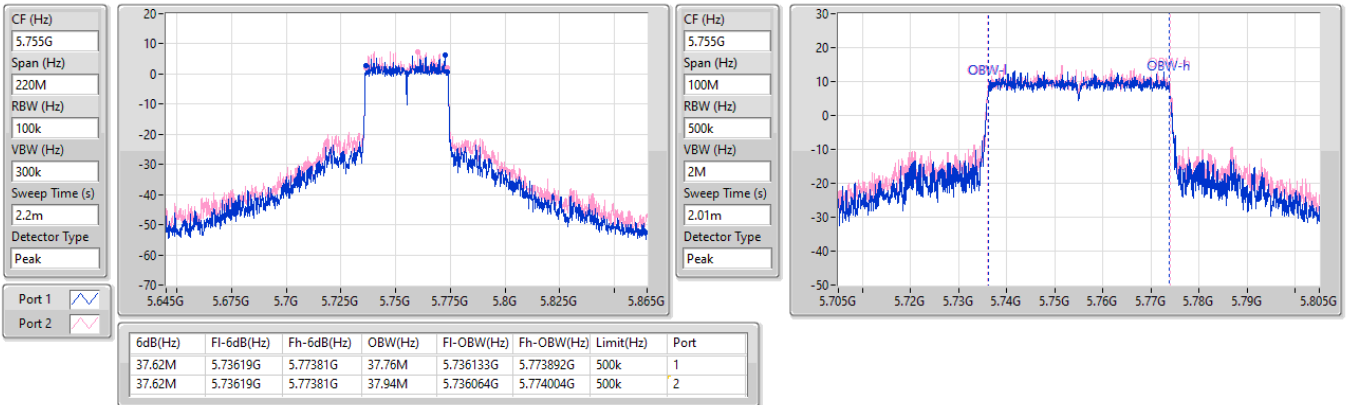

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

14/11/2024

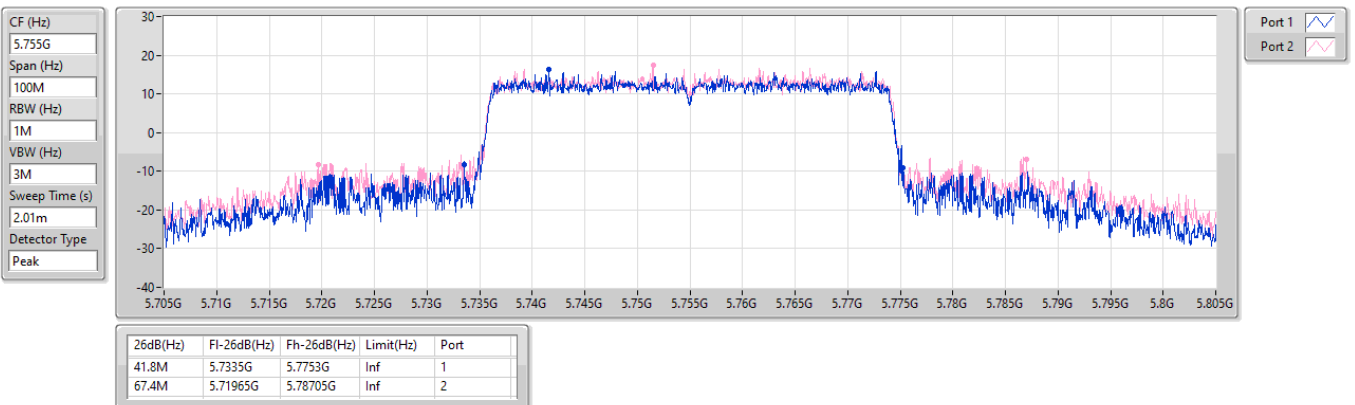


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

14/11/2024

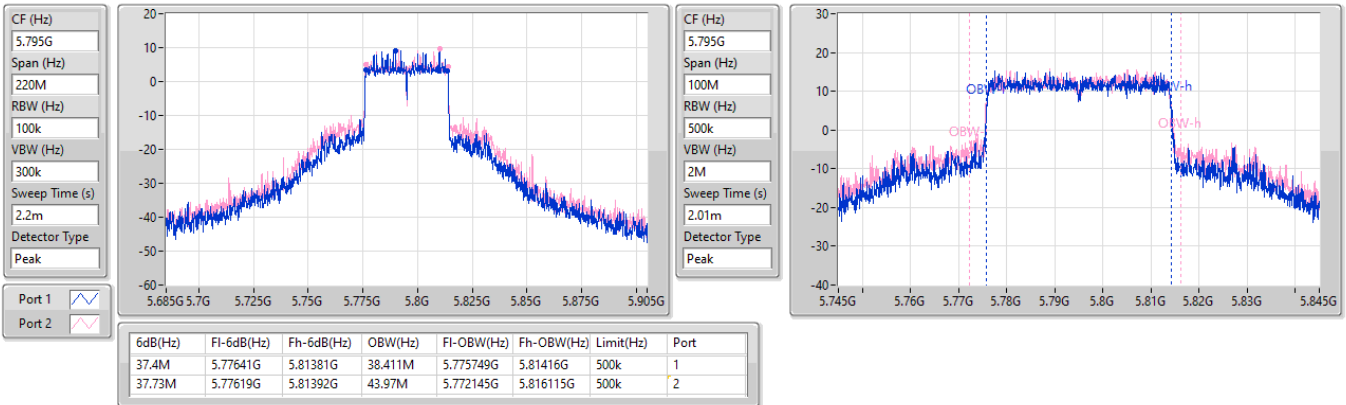

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

14/11/2024

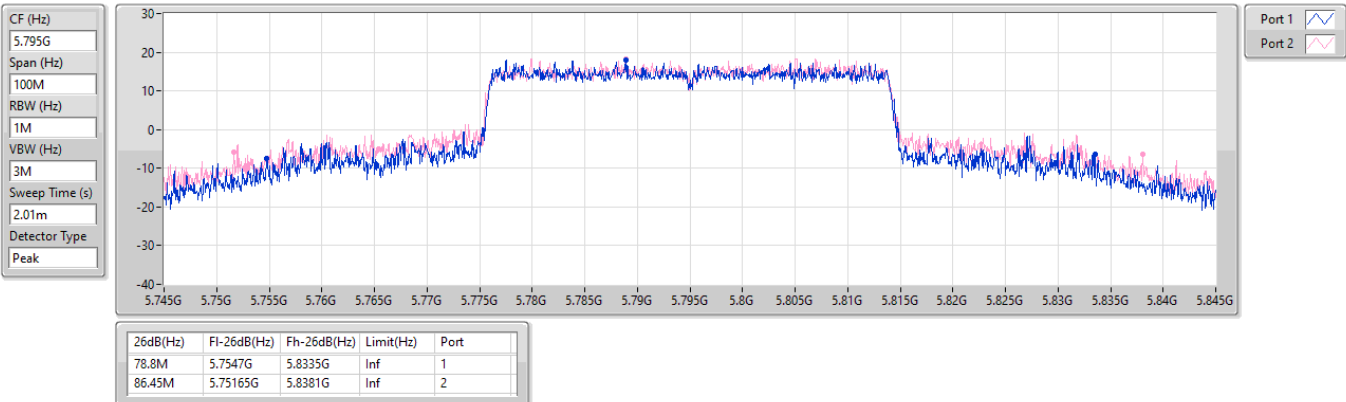


5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

14/11/2024

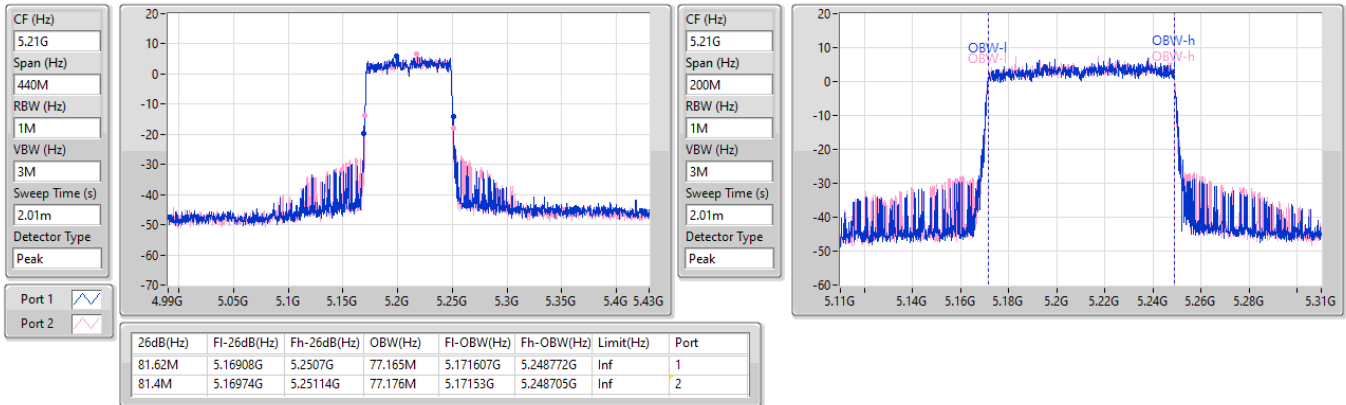

5.725-5.85GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

14/11/2024

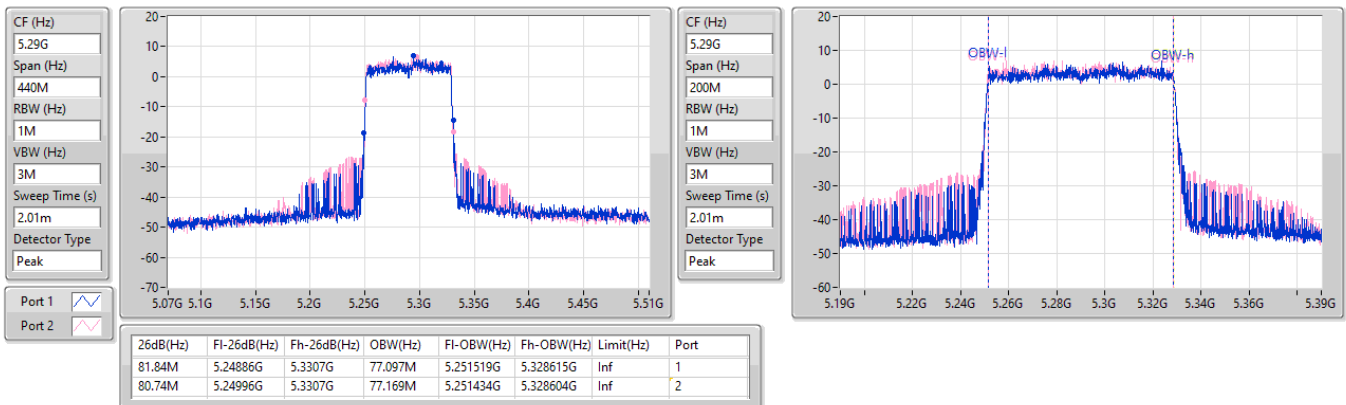


5.15-5.25GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
5210MHz

14/11/2024


5.25-5.35GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
5290MHz

14/11/2024

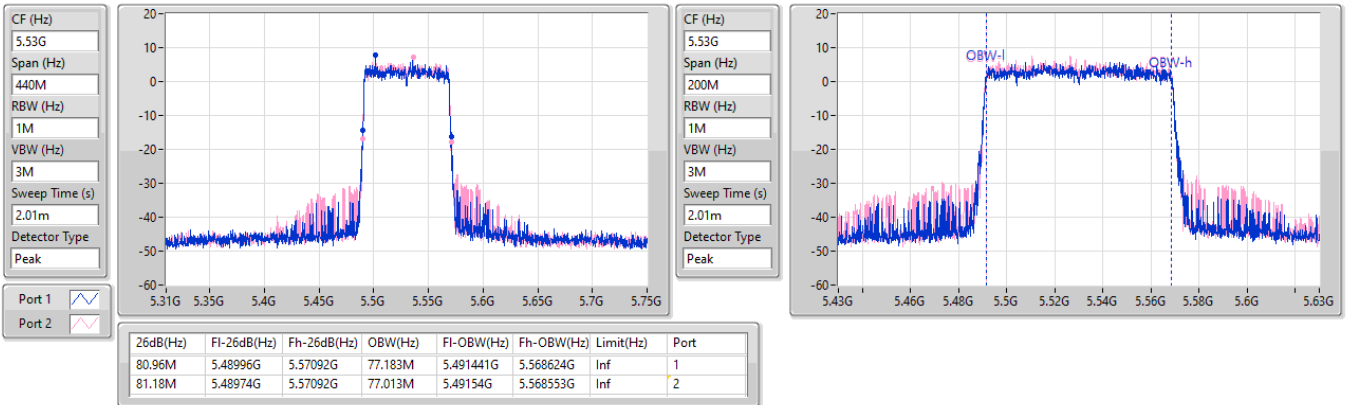


5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5530MHz

14/11/2024

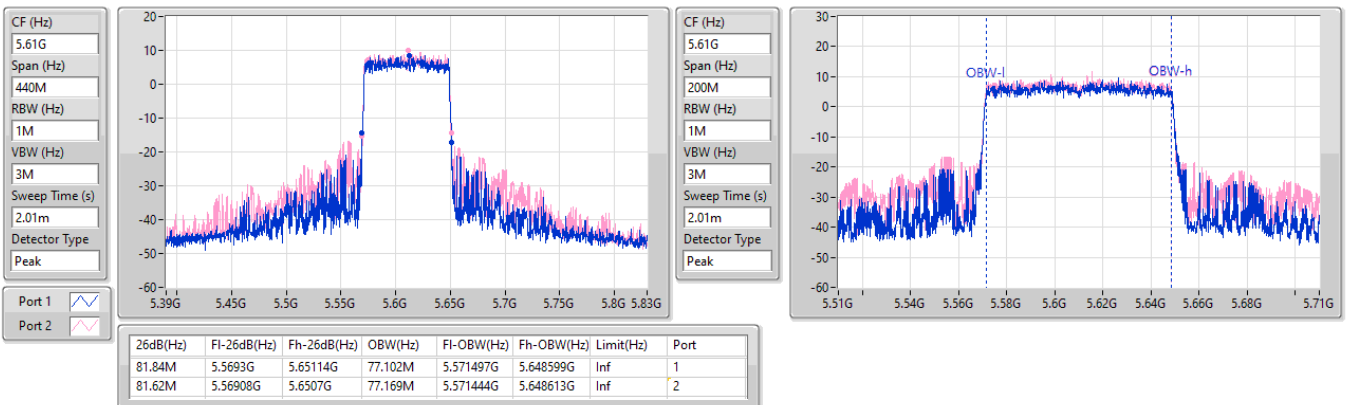


5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5610MHz

14/11/2024

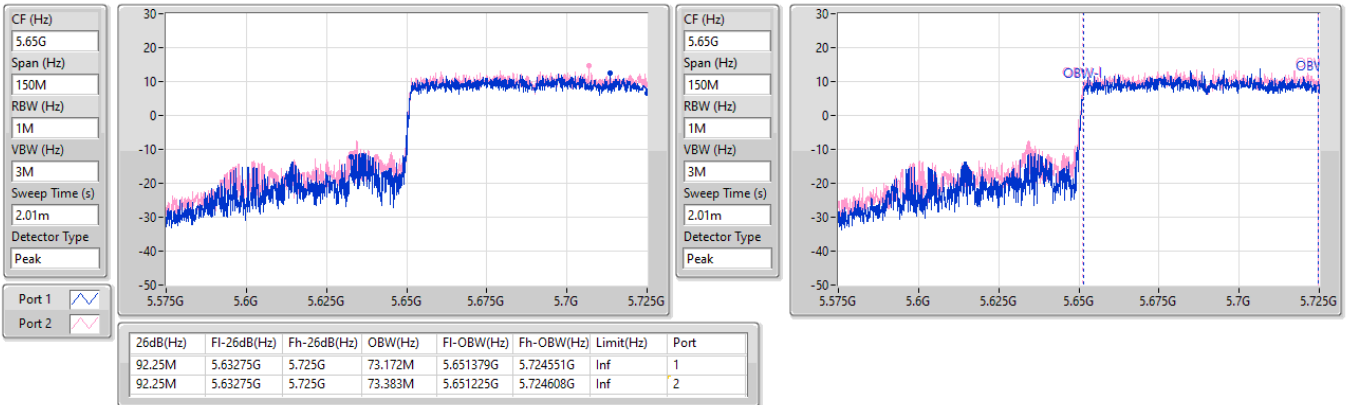


5.47-5.725GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

14/11/2024

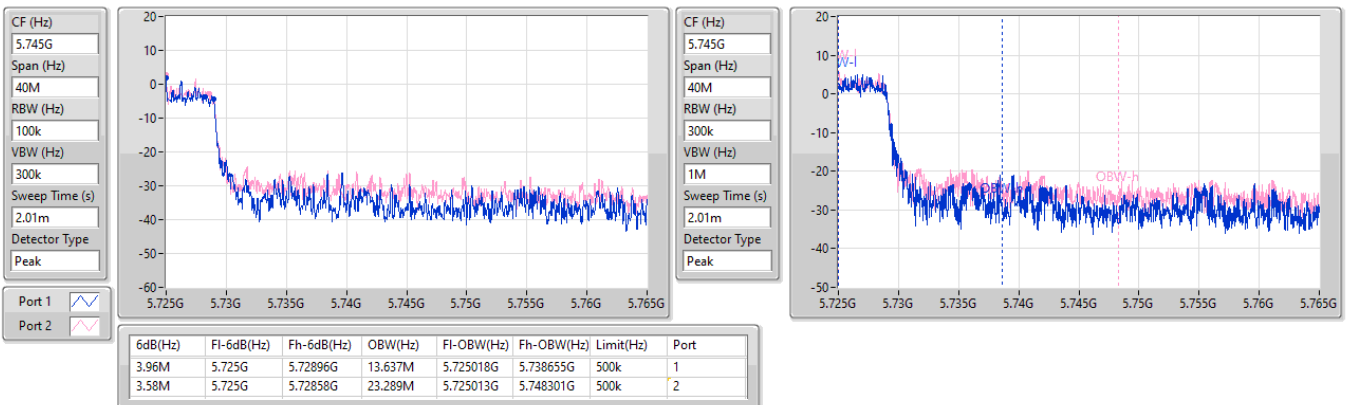


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

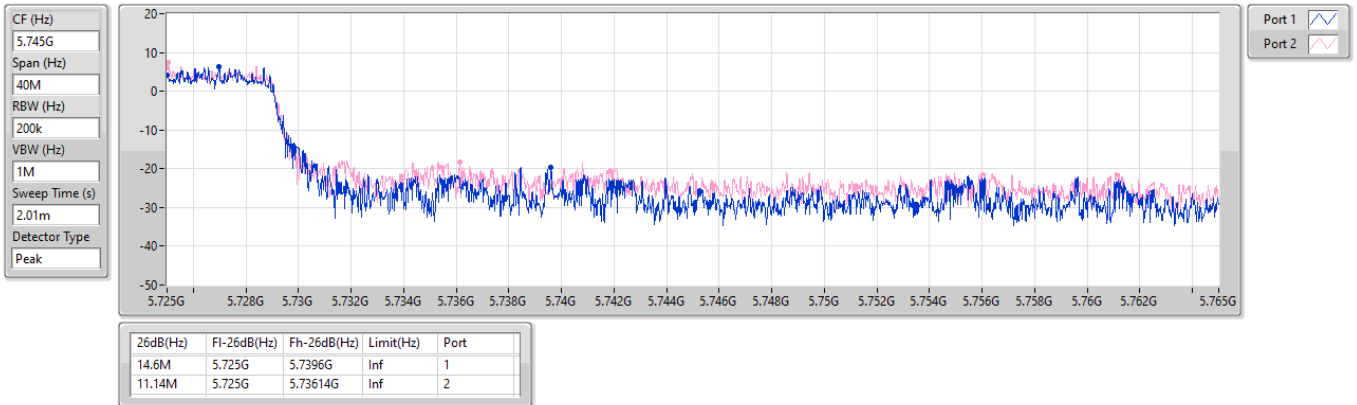
5690MHz Straddle 5.725-5.85GHz

14/11/2024

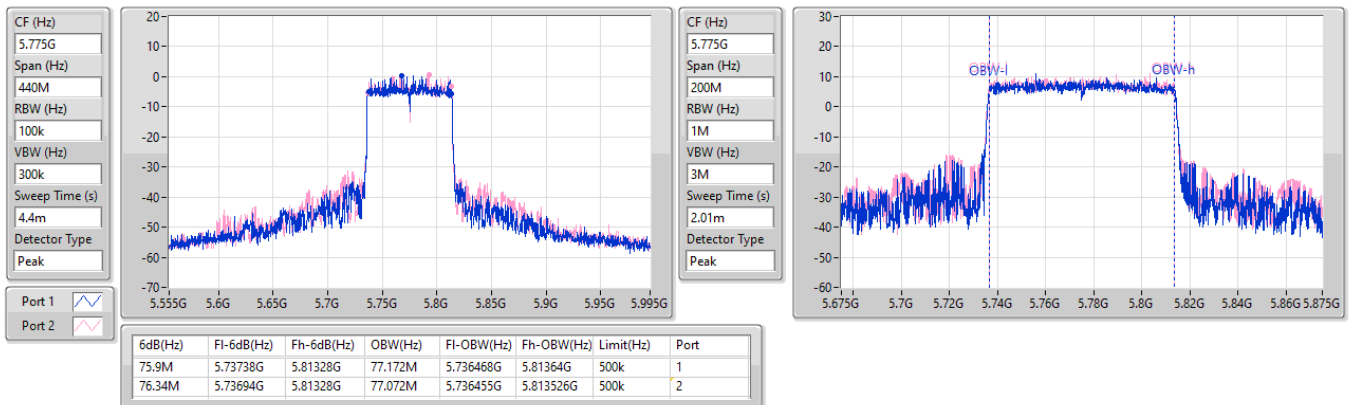


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

14/11/2024


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX
EBW
5775MHz

14/11/2024

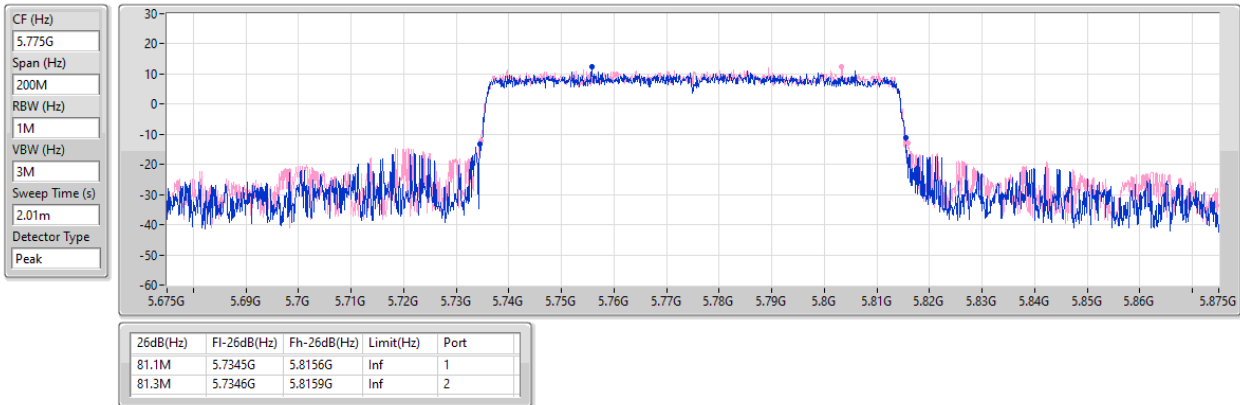


5.725-5.85GHz_802.11be EHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

14/11/2024

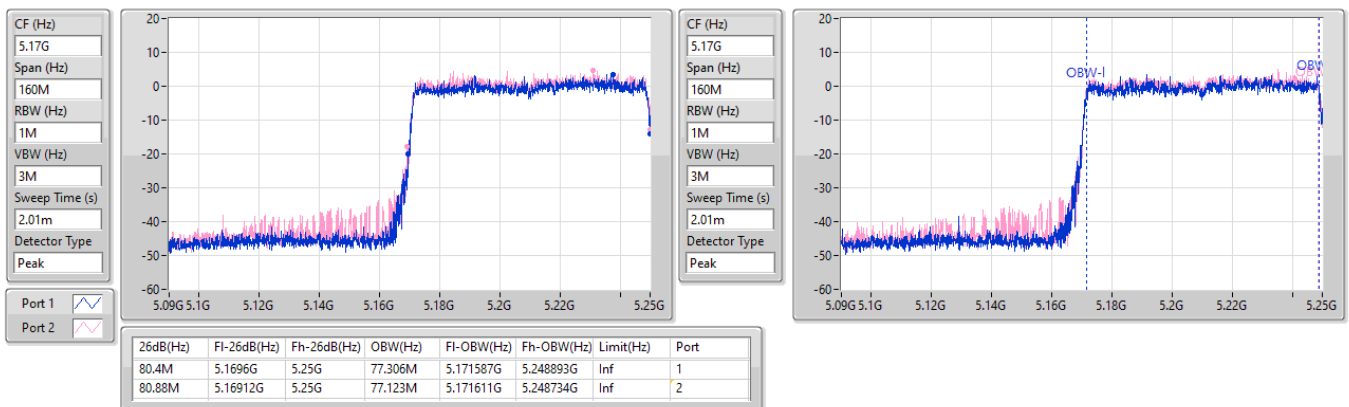


5.15-5.25GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

5250MHz Straddle 5.15-5.25GHz

14/11/2024

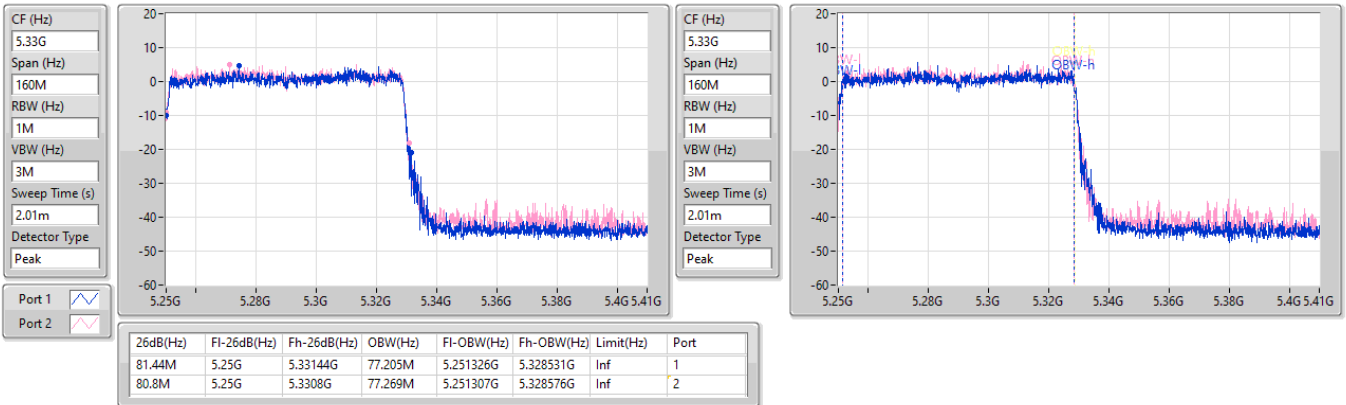


5.25-5.35GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

5250MHz Straddle 5.25-5.35GHz

14/11/2024

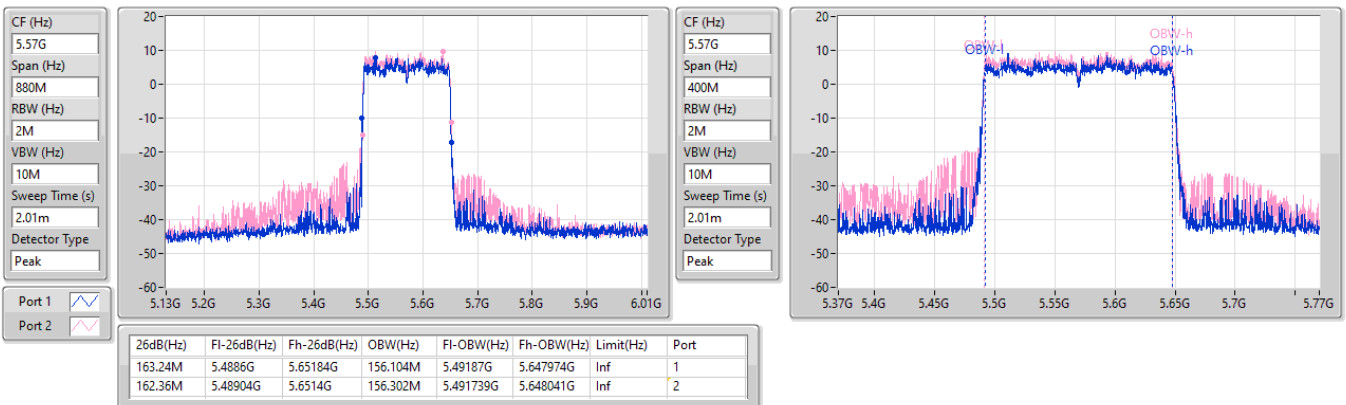


5.47-5.725GHz_802.11be EHT160_Nss1,(MCS0)_2TX

EBW

5570MHz

14/11/2024



Test Mode: Mode 4
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	22.55M	17.063M	17M1D1D	20.075M	16.426M
802.11be EHT20_Nss1,(MCS0)_4TX	31.405M	19.24M	19M2D1D	20.735M	18.916M
802.11be EHT40_Nss1,(MCS0)_4TX	45.87M	38.031M	38M0D1D	39.6M	37.581M
802.11be EHT80_Nss1,(MCS0)_4TX	80.74M	77.261M	77M3D1D	80.08M	76.862M
802.11be EHT160_Nss1,(MCS0)_4TX	80M	77.481M	77M5D1D	79.92M	76.922M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.79M	16.932M	16M9D1D	19.14M	16.404M
802.11be EHT20_Nss1,(MCS0)_4TX	21.45M	19.065M	19M1D1D	20.57M	18.941M
802.11be EHT40_Nss1,(MCS0)_4TX	40.7M	37.731M	37M7D1D	38.94M	37.531M
802.11be EHT80_Nss1,(MCS0)_4TX	80.96M	77.661M	77M7D1D	80.52M	76.662M
802.11be EHT160_Nss1,(MCS0)_4TX	80.16M	77.481M	77M5D1D	79.92M	76.842M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.065M	17.107M	17M1D1D	14.325M	13.223M
802.11be EHT20_Nss1,(MCS0)_4TX	21.395M	19.14M	19M1D1D	15.345M	14.423M
802.11be EHT40_Nss1,(MCS0)_4TX	39.82M	37.831M	37M8D1D	34.79M	33.688M
802.11be EHT80_Nss1,(MCS0)_4TX	81.4M	77.161M	77M2D1D	74.7M	73.163M
802.11be EHT160_Nss1,(MCS0)_4TX	163.24M	155.722M	156MD1D	161.92M	155.322M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.5M	18.669M	18M7D1D	3.2M	3.798M
802.11be EHT20_Nss1,(MCS0)_4TX	19.195M	19.79M	19M8D1D	4.44M	4.518M
802.11be EHT40_Nss1,(MCS0)_4TX	37.95M	38.531M	38M5D1D	3.74M	4.058M
802.11be EHT80_Nss1,(MCS0)_4TX	77.66M	77.561M	77M6D1D	3.72M	4.058M

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

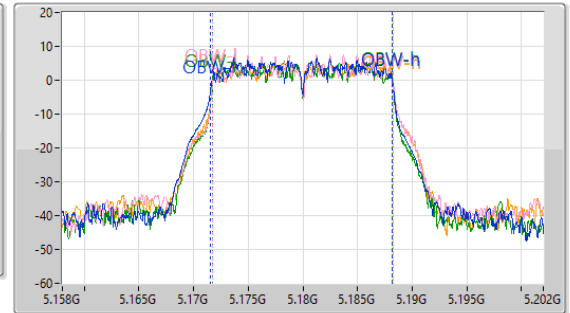
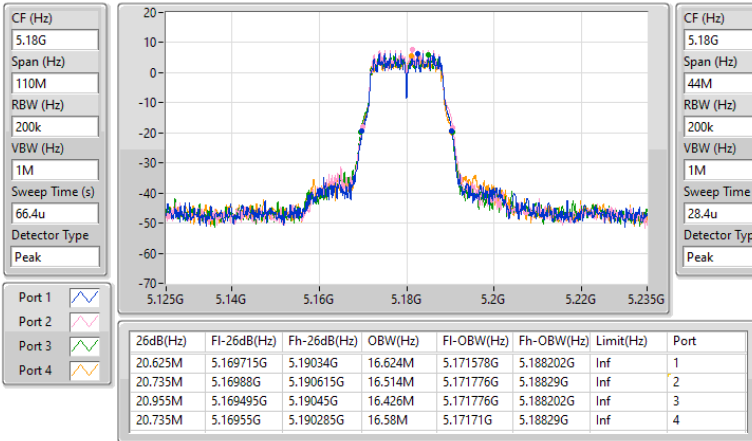
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.625M	16.624M	20.735M	16.514M	20.955M	16.426M	20.735M	16.58M
5200MHz	Pass	Inf	20.075M	16.448M	21.67M	16.866M	20.075M	16.888M	20.79M	16.668M
5240MHz	Pass	Inf	22.55M	16.536M	20.845M	16.492M	20.68M	17.063M	22.385M	16.668M
5260MHz	Pass	Inf	20.68M	16.69M	19.745M	16.47M	19.415M	16.69M	20.79M	16.536M
5300MHz	Pass	Inf	20.735M	16.932M	20.68M	16.668M	19.14M	16.602M	20.735M	16.404M
5320MHz	Pass	Inf	20.075M	16.514M	20.79M	16.492M	20.075M	16.426M	20.24M	16.514M
5500MHz	Pass	Inf	20.9M	16.58M	20.405M	16.536M	19.8M	16.58M	19.25M	16.426M
5580MHz	Pass	Inf	20.405M	16.514M	19.8M	16.514M	20.405M	16.58M	20.02M	16.558M
5700MHz	Pass	Inf	20.625M	17.107M	20.515M	16.734M	21.065M	16.646M	19.635M	16.602M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.67M	13.223M	14.58M	13.463M	15.045M	13.253M	14.325M	13.313M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.26M	3.918M	3.26M	3.798M	3.2M	4.218M	3.26M	3.918M
5745MHz	Pass	500k	16.335M	18.031M	15.29M	18.669M	15.675M	16.756M	15.73M	18.295M
5785MHz	Pass	500k	15.95M	17.195M	16.335M	16.888M	16.445M	16.646M	16.445M	16.668M
5825MHz	Pass	500k	16.445M	16.492M	16.5M	16.844M	15.455M	16.624M	15.675M	16.646M
802.11be EHT20_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.01M	18.916M	20.955M	19.015M	20.9M	18.966M	20.735M	18.941M
5200MHz	Pass	Inf	21.34M	18.941M	21.395M	18.991M	21.12M	19.04M	21.12M	19.015M
5240MHz	Pass	Inf	31.405M	19.14M	28.545M	19.015M	26.235M	19.24M	24.585M	19.04M
5260MHz	Pass	Inf	20.57M	18.991M	21.285M	19.04M	21.285M	18.991M	21.12M	19.04M
5300MHz	Pass	Inf	20.955M	18.941M	20.57M	18.966M	21.45M	19.015M	21.23M	18.966M
5320MHz	Pass	Inf	21.01M	19.065M	20.9M	19.065M	20.625M	19.015M	21.12M	18.966M
5500MHz	Pass	Inf	21.395M	18.991M	20.625M	19.015M	20.625M	18.991M	21.175M	18.916M
5580MHz	Pass	Inf	20.46M	18.991M	20.9M	19.04M	21.23M	19.14M	20.845M	19.015M
5700MHz	Pass	Inf	21.01M	18.941M	20.625M	18.991M	20.845M	18.966M	21.175M	19.015M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.345M	14.423M	15.585M	14.498M	15.855M	14.468M	15.54M	14.438M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.518M	4.44M	4.538M	4.56M	4.518M	4.56M	4.518M
5745MHz	Pass	500k	18.645M	19.265M	18.26M	19.215M	19.14M	19.115M	19.03M	19.79M
5785MHz	Pass	500k	18.92M	19.515M	19.14M	19.14M	18.04M	19.315M	18.59M	19.14M
5825MHz	Pass	500k	18.975M	19.69M	19.195M	19.265M	19.03M	19.115M	15.895M	19.365M
802.11be EHT40_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.37M	37.581M	39.6M	37.981M	39.93M	37.631M	39.6M	37.581M
5230MHz	Pass	Inf	39.71M	37.731M	45.87M	37.731M	43.45M	37.581M	43.23M	38.031M
5270MHz	Pass	Inf	39.93M	37.631M	39.6M	37.631M	38.94M	37.681M	40.26M	37.731M
5310MHz	Pass	Inf	40.7M	37.631M	39.82M	37.731M	39.49M	37.631M	39.71M	37.531M
5510MHz	Pass	Inf	39.49M	37.481M	39.49M	37.731M	39.16M	37.831M	39.38M	37.681M
5550MHz	Pass	Inf	39.49M	37.831M	39.82M	37.731M	39.38M	37.681M	39.71M	37.831M
5670MHz	Pass	Inf	39.82M	37.731M	39.6M	37.631M	39.6M	37.681M	39.38M	37.631M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.525M	33.758M	35.28M	33.863M	34.895M	33.758M	34.79M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.078M	3.74M	4.058M	4.06M	4.058M	3.74M	4.058M
5755MHz	Pass	500k	37.84M	37.881M	37.29M	37.881M	36.41M	37.831M	36.85M	38.031M
5795MHz	Pass	500k	37.07M	38.531M	37.95M	38.331M	36.52M	38.131M	37.07M	38.231M
802.11be EHT80_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.52M	76.962M	80.74M	76.862M	80.08M	77.261M	80.74M	76.962M
5290MHz	Pass	Inf	80.96M	76.962M	80.52M	77.261M	80.96M	77.661M	80.96M	76.662M
5530MHz	Pass	Inf	80.08M	77.161M	80.08M	76.962M	79.86M	76.862M	80.08M	77.161M
5610MHz	Pass	Inf	80.08M	77.061M	80.96M	76.862M	81.4M	76.962M	80.52M	77.161M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	74.775M	73.313M	74.775M	73.163M	76.05M	73.613M	74.7M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.72M	4.078M	4.04M	4.078M	4.1M	4.058M	3.84M	4.118M
5775MHz	Pass	500k	76.56M	77.061M	76.12M	77.561M	76.12M	77.161M	77.66M	77.161M
802.11be EHT160_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	79.92M	77.481M	80M	76.922M	80M	77.401M	80M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.16M	76.842M	79.92M	77.481M	80M	77.321M	79.92M	77.401M
5570MHz	Pass	Inf	161.92M	155.322M	163.24M	155.322M	161.92M	155.722M	162.36M	155.722M

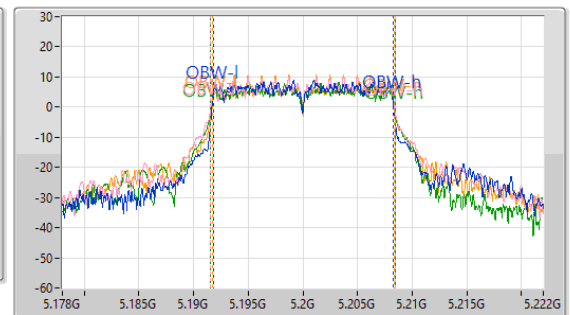
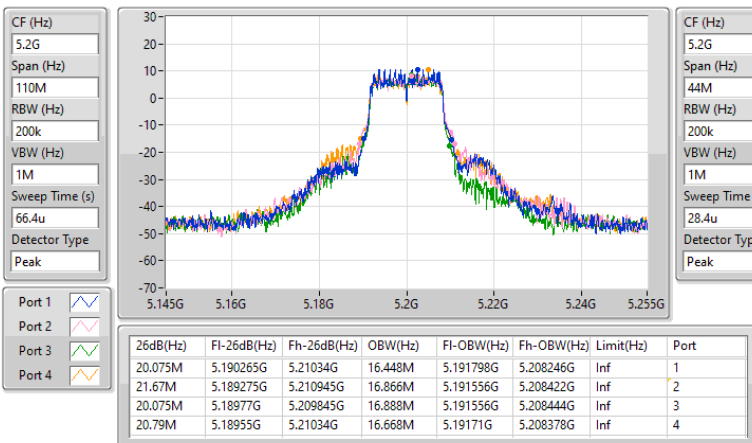
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5180MHz

05/11/2024

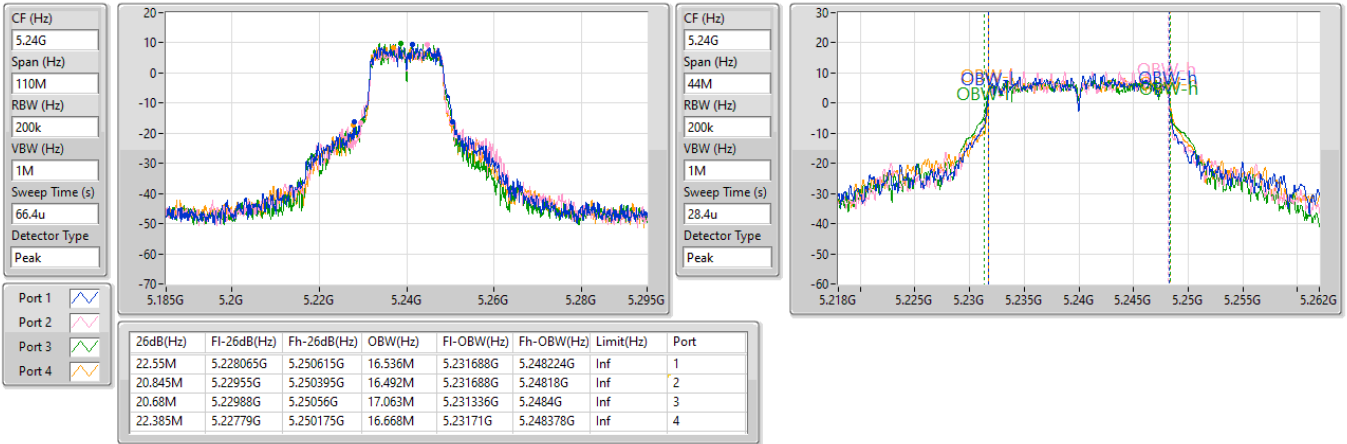

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5200MHz

05/11/2024

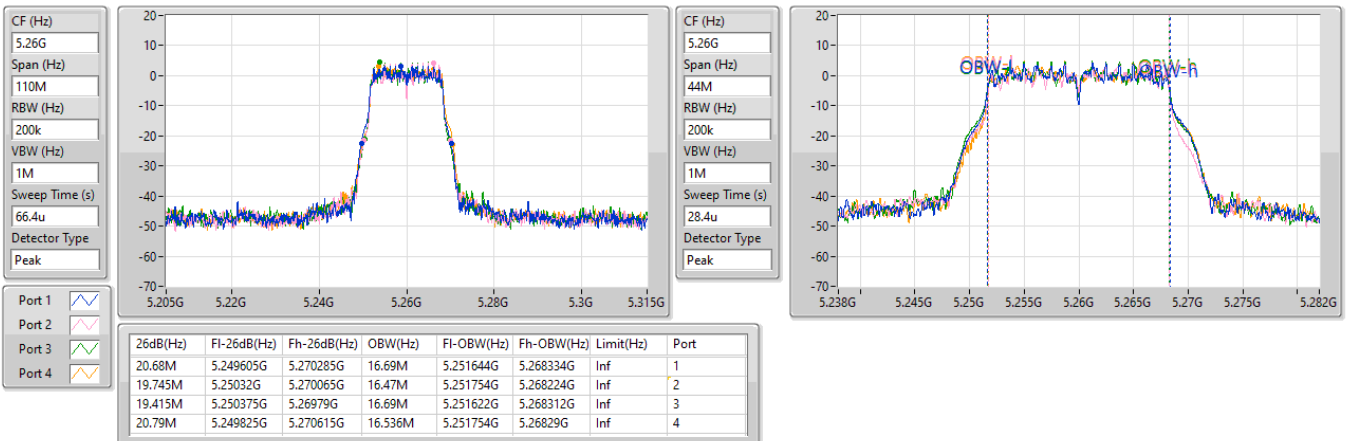


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5240MHz

05/11/2024


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5260MHz

05/11/2024

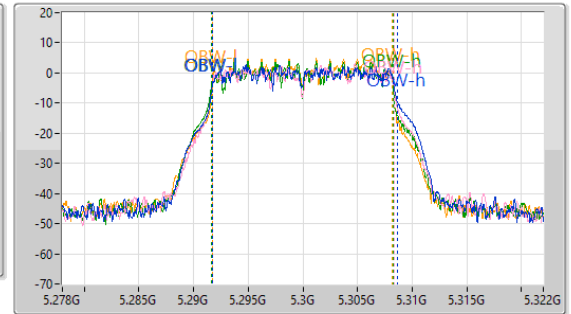
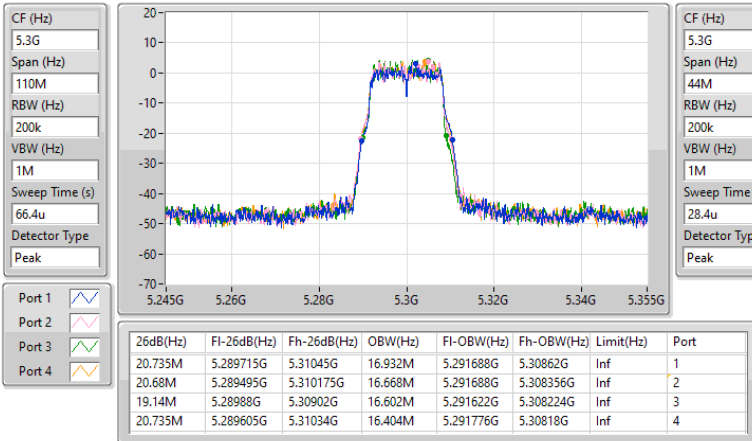


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5300MHz

05/11/2024

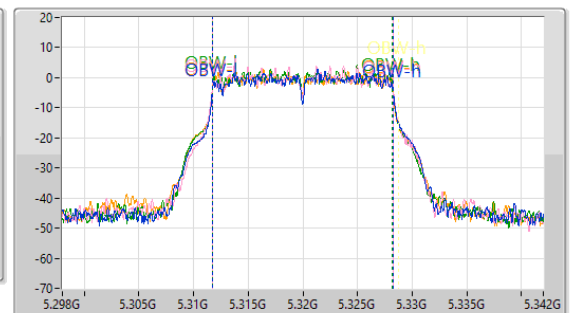
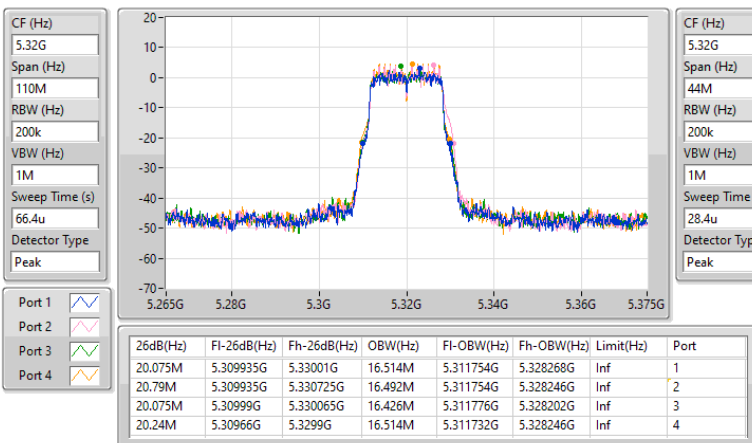


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

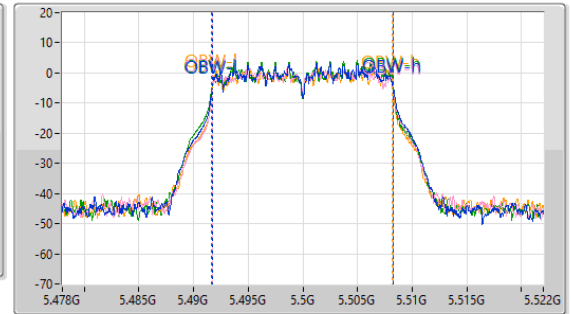
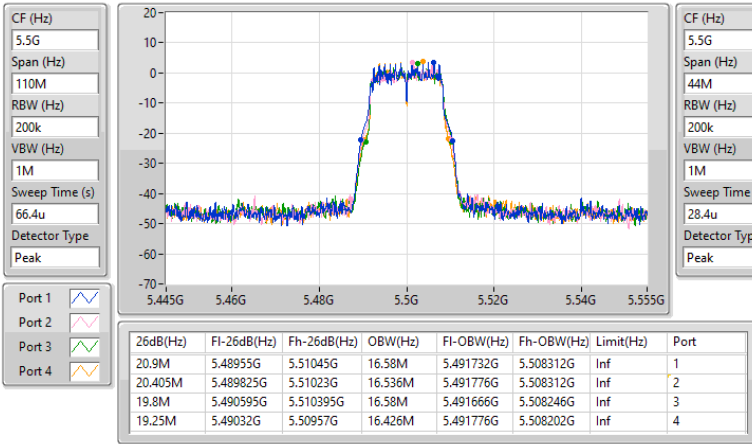
5320MHz

05/11/2024

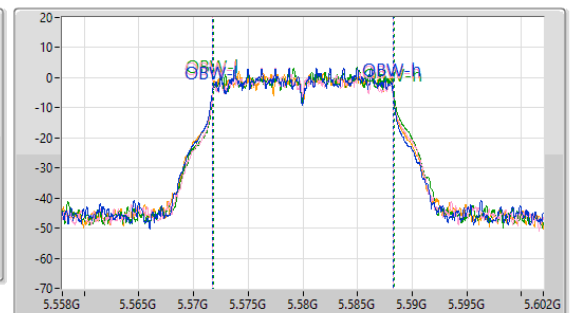
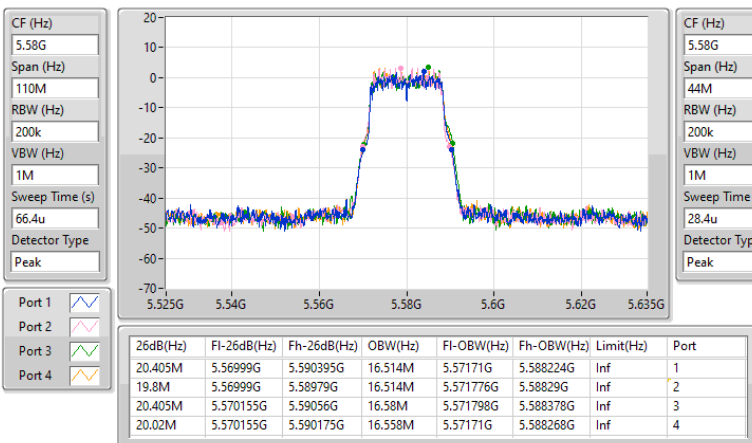


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

05/11/2024


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

05/11/2024

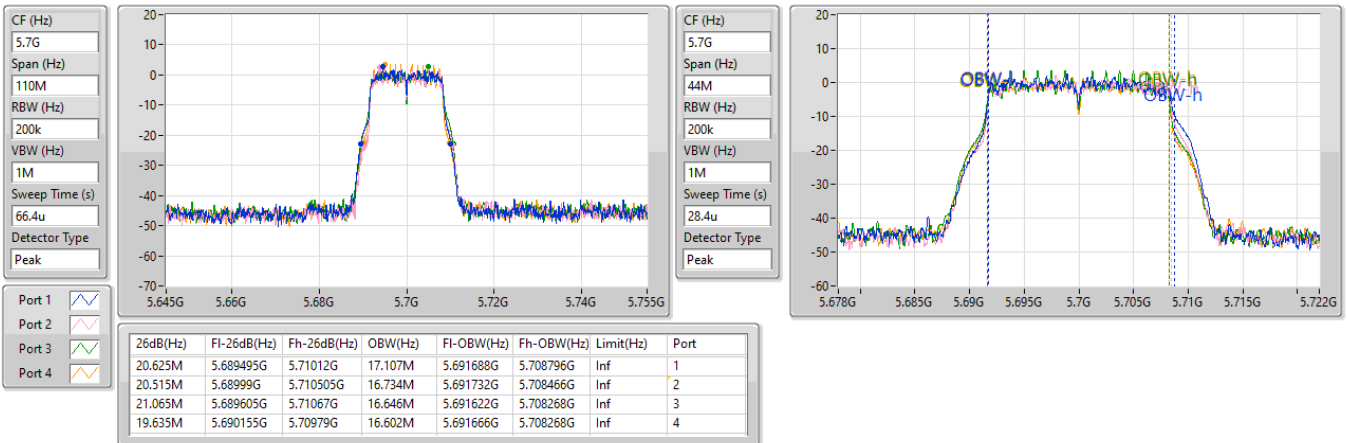


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

5700MHz

05/11/2024

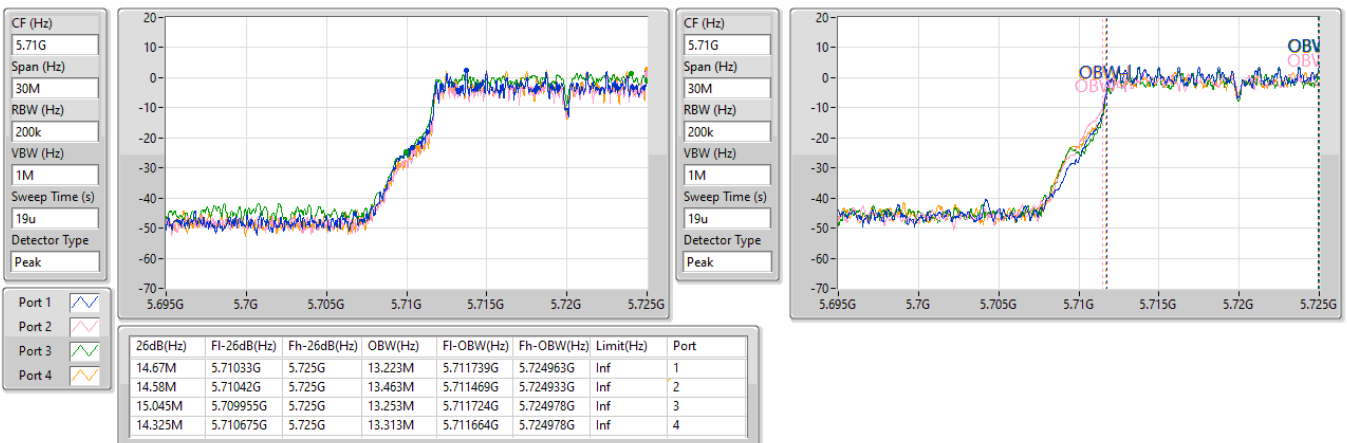


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_4TX

EBW

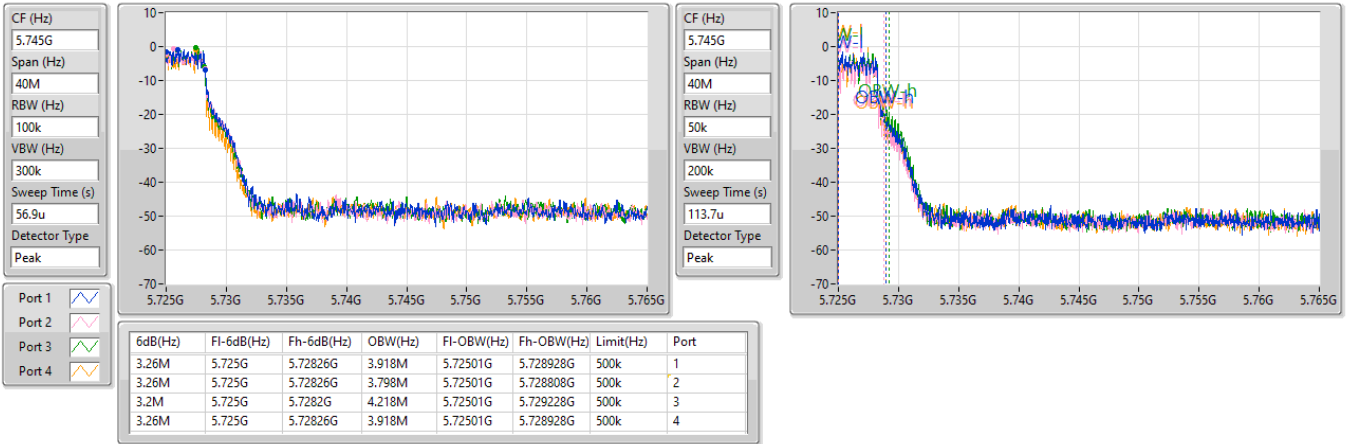
5720MHz Straddle 5.47-5.725GHz

05/11/2024

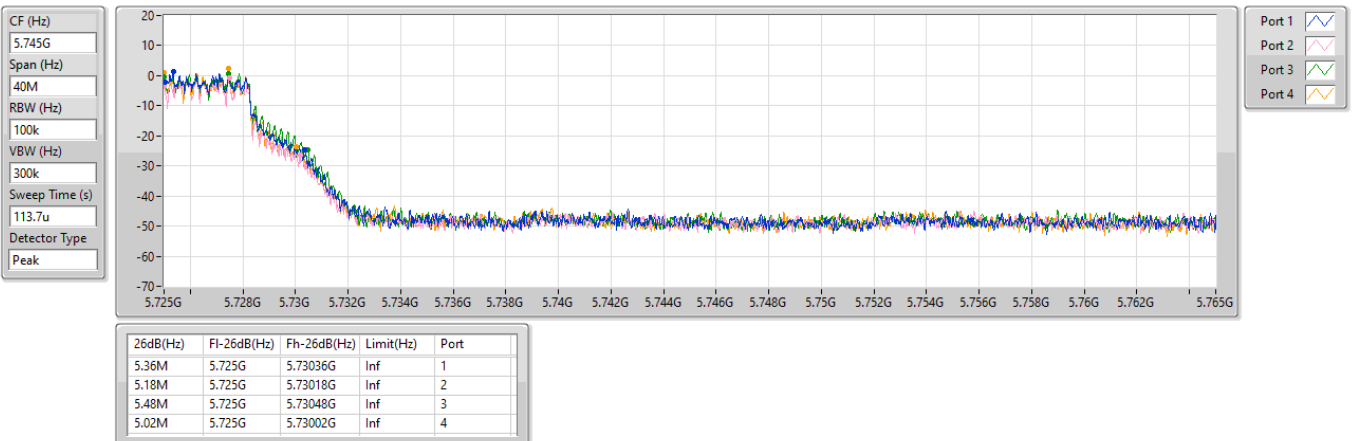


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

05/11/2024

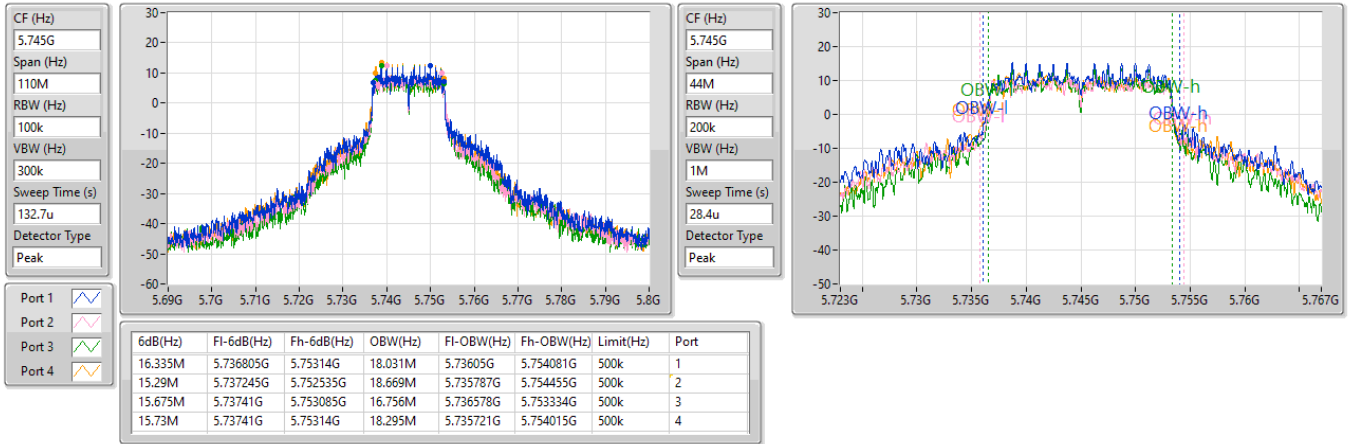

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

05/11/2024

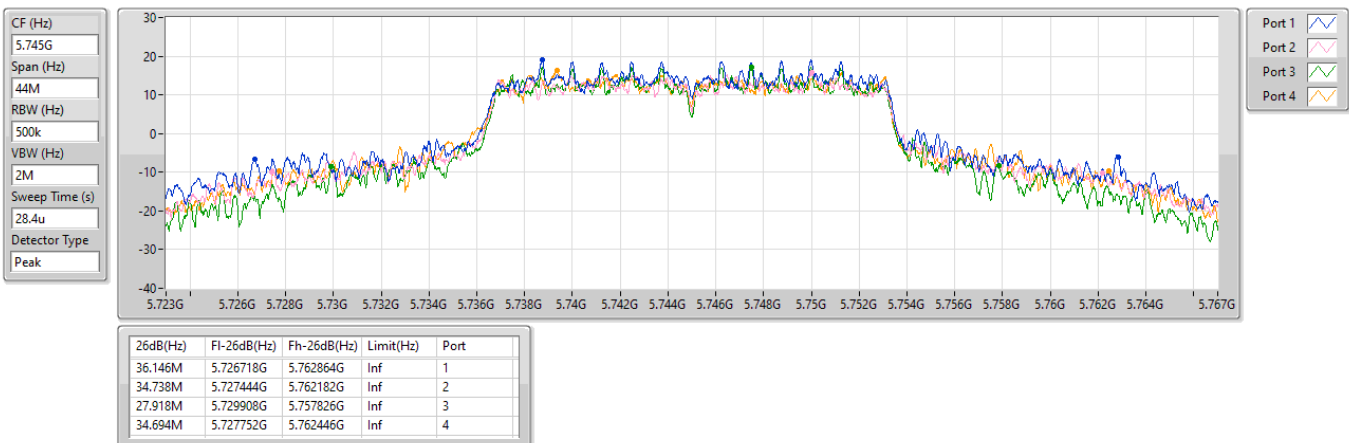


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5745MHz

05/11/2024

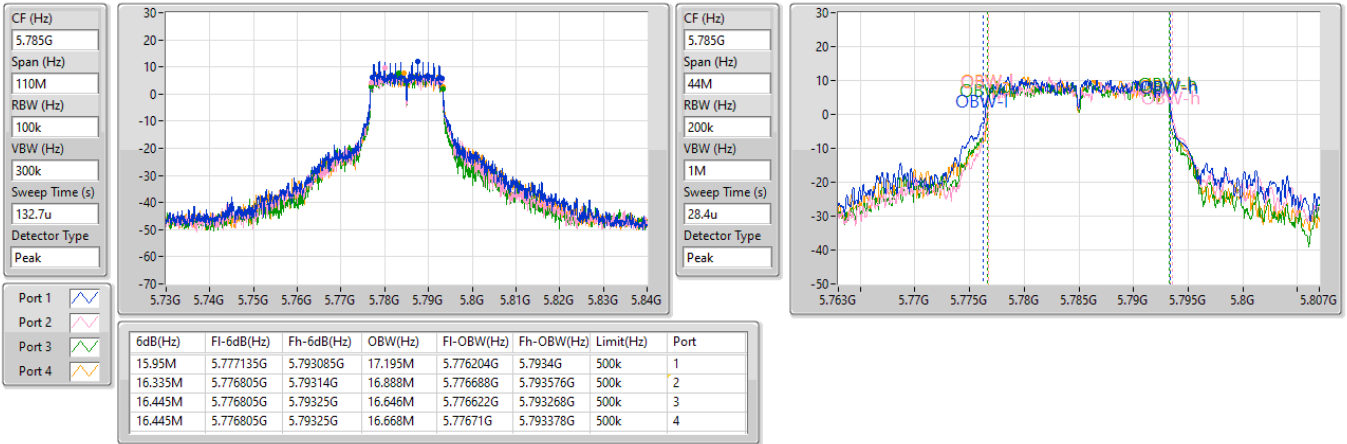

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5745MHz

05/11/2024

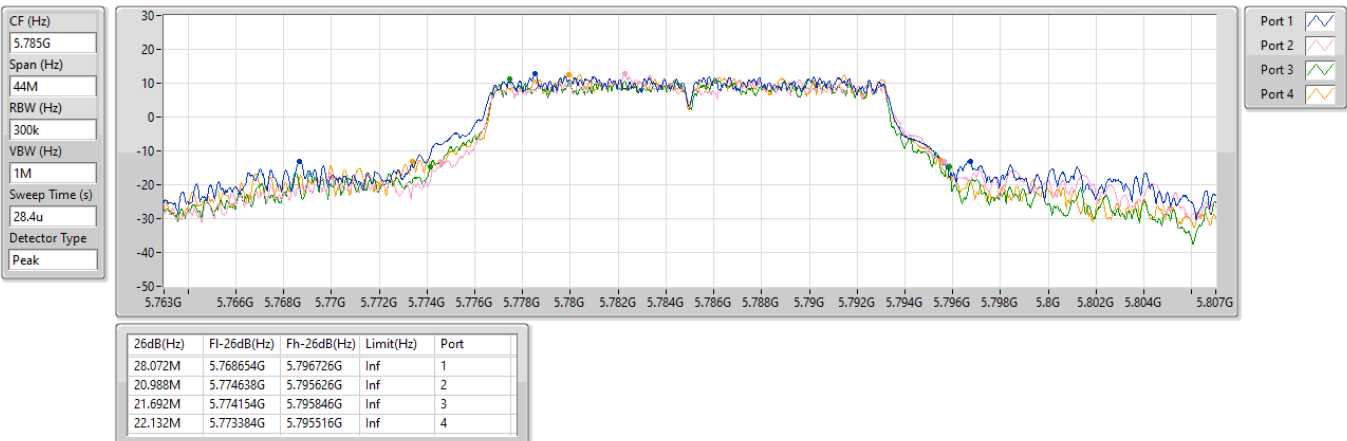


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5785MHz

05/11/2024

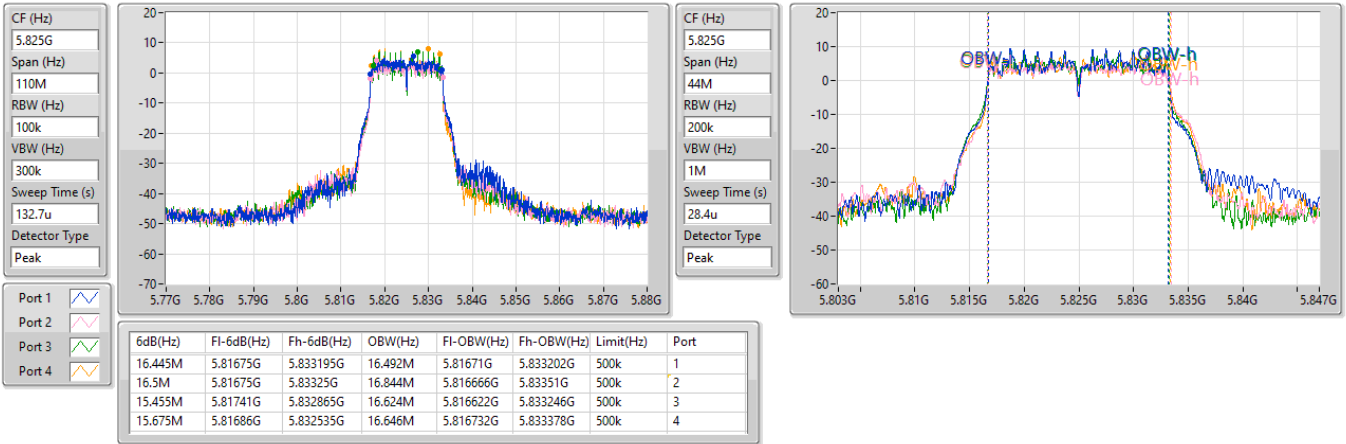

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5785MHz

05/11/2024

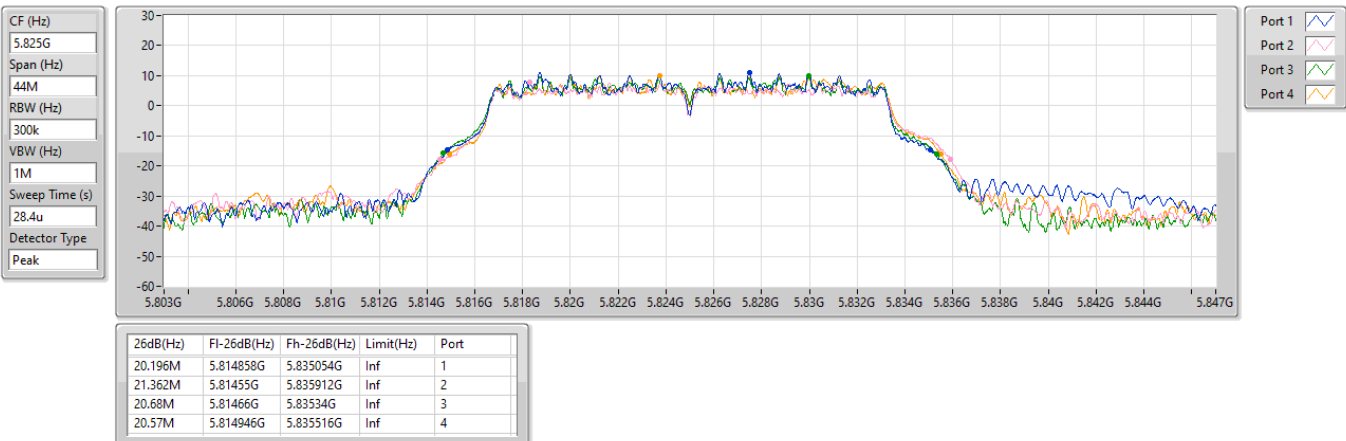


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5825MHz

05/11/2024


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_4TX
EBW
5825MHz

05/11/2024

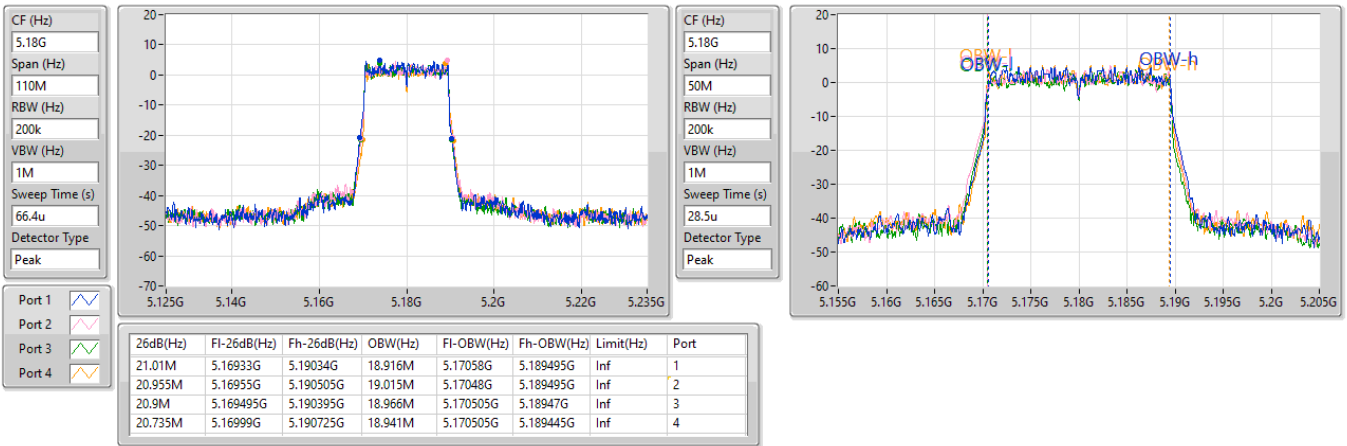


5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

05/11/2024



5.15-5.25GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

05/11/2024

