



RADIO TEST REPORT

FCC ID : QXO-AP5050
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP5050U
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Standard : 47 CFR FCC Part 15.407

The product was received on Jun. 06, 2022, and testing was started from Jun. 06, 2022 and completed on Sep. 06, 2022. 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 variant 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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History of this test report

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

Page Number : 3 of 37
Issued Date : Dec. 12, 2022
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Output Power	PASS	-
3.3	15.407(a)	Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Viola Huang



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax (HEW20)	5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5250-5350	n (HT40), ac (VHT40), ax (HEW40)	5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5250-5350	ac (VHT80), ax (HEW80)	5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5150-5350	ac (VHT160), ax (HEW160)	5250	50 [1]
5470-5725		5570	114 [1]

For Radio 2

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	1, 2, 4
5.25-5.35GHz	802.11n HT20	20	1, 2, 4
5.25-5.35GHz	802.11n HT20-BF	20	2, 4
5.25-5.35GHz	802.11ac VHT20	20	1, 2, 4
5.25-5.35GHz	802.11ac VHT20-BF	20	2, 4
5.25-5.35GHz	802.11ax HEW20	20	1, 2, 4
5.25-5.35GHz	802.11ax HEW20-BF	20	2, 4
5.25-5.35GHz	802.11n HT40	40	1, 2, 4
5.25-5.35GHz	802.11n HT40-BF	40	2, 4
5.25-5.35GHz	802.11ac VHT40	40	1, 2, 4
5.25-5.35GHz	802.11ac VHT40-BF	40	2, 4
5.25-5.35GHz	802.11ax HEW40	40	1, 2, 4
5.25-5.35GHz	802.11ax HEW40-BF	40	2, 4
5.25-5.35GHz	802.11ac VHT80	80	1, 2, 4
5.25-5.35GHz	802.11ac VHT80-BF	80	2, 4
5.25-5.35GHz	802.11ax HEW80	80	1, 2, 4
5.25-5.35GHz	802.11ax HEW80-BF	80	2, 4
5.15-5.35GHz	802.11ac VHT160	160	1, 2, 4
5.15-5.35GHz	802.11ac VHT160-BF	160	2, 4
5.15-5.35GHz	802.11ax HEW160	160	1, 2, 4
5.15-5.35GHz	802.11ax HEW160-BF	160	2, 4
5.47-5.725GHz	802.11a	20	1, 2, 4



Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11n HT20	20	1, 2, 4
5.47-5.725GHz	802.11n HT20-BF	20	2, 4
5.47-5.725GHz	802.11ac VHT20	20	1, 2, 4
5.47-5.725GHz	802.11ac VHT20-BF	20	2, 4
5.47-5.725GHz	802.11ax HEW20	20	1, 2, 4
5.47-5.725GHz	802.11ax HEW20-BF	20	2, 4
5.47-5.725GHz	802.11n HT40	40	1, 2, 4
5.47-5.725GHz	802.11n HT40-BF	40	2, 4
5.47-5.725GHz	802.11ac VHT40	40	1, 2, 4
5.47-5.725GHz	802.11ac VHT40-BF	40	2, 4
5.47-5.725GHz	802.11ax HEW40	40	1, 2, 4
5.47-5.725GHz	802.11ax HEW40-BF	40	2, 4
5.47-5.725GHz	802.11ac VHT80	80	1, 2, 4
5.47-5.725GHz	802.11ac VHT80-BF	80	2, 4
5.47-5.725GHz	802.11ax HEW80	80	1, 2, 4
5.47-5.725GHz	802.11ax HEW80-BF	80	2, 4
5.47-5.725GHz	802.11ac VHT160	160	1, 2, 4
5.47-5.725GHz	802.11ac VHT160-BF	160	2, 4
5.47-5.725GHz	802.11ax HEW160	160	1, 2, 4
5.47-5.725GHz	802.11ax HEW160-BF	160	2, 4

For Scanning radio 1

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2
5.25-5.35GHz	802.11n HT20	20	2
5.25-5.35GHz	802.11ac VHT20	20	2
5.25-5.35GHz	802.11ax HEW20	20	2
5.25-5.35GHz	802.11n HT40	40	2
5.25-5.35GHz	802.11ac VHT40	40	2
5.25-5.35GHz	802.11ax HEW40	40	2
5.25-5.35GHz	802.11ac VHT80	80	2
5.25-5.35GHz	802.11ax HEW80	80	2
5.47-5.725GHz	802.11a	20	2
5.47-5.725GHz	802.11n HT20	20	2
5.47-5.725GHz	802.11ac VHT20	20	2
5.47-5.725GHz	802.11ax HEW20	20	2
5.47-5.725GHz	802.11n HT40	40	2
5.47-5.725GHz	802.11ac VHT40	40	2
5.47-5.725GHz	802.11ax HEW40	40	2
5.47-5.725GHz	802.11ac VHT80	80	2



Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW80	80	2

Note:

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



1.1.2 Antenna Information

Ant.	Port					Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz (Radio 1) (Scanning Radio 1)	WLAN 5GHz (Radio 2)	WLAN 5GHz (Scanning Radio 1)	BT / IEEE802.15.4 (Radio 3)	GPS (Radio 4)					
1	1	-	-	-	-	WNC	95XEAJ15.G45	Metal PIFA	I-PEX	Note 1
2	2	-	-	-	-	WNC	95XEAJ15.G46	Metal PIFA	I-PEX	
3	3	-	1	-	-	WNC	95XEAJ15.G53	Metal PIFA	I-PEX	
4	4	-	2	-	-	WNC	95XEAJ15.G54	Metal PIFA	I-PEX	
5	-	1	-	-	-	WNC	95XEAJ15.G47	Metal PIFA	I-PEX	
6	-	2	-	-	-	WNC	95XEAJ15.G48	Metal PIFA	I-PEX	
7	-	3	-	-	-	WNC	95XEAJ15.G91	Metal PIFA	I-PEX	
8	-	4	-	-	-	WNC	95XEAJ15.G92	Metal PIFA	I-PEX	
9	-	-	-	-	-	WNC	95XEAJ15.G49	Metal PIFA	I-PEX	
10	-	-	-	-	-	WNC	95XEAJ15.G50	Metal PIFA	I-PEX	
11	-	-	-	-	-	WNC	95XEAJ15.G51	Metal PIFA	I-PEX	
12	-	-	-	-	-	WNC	95XEAJ15.G52	Metal PIFA	I-PEX	
13	-	-	-	1	-	WNC	95XEAJ15.G55	Metal PIFA	I-PEX	
14	-	-	-	-	1	WNC	95XEAJ15.G89	Metal PIFA	I-PEX	

Note 1:

Ant.	Antenna Gain (dBi)												
	WLAN 2.4GHz (Radio 1) (Scanning Radio 1)			WLAN 5GHz (Radio 2)				WLAN 5GHz (Scanning Radio 1)				BT / IEEE802.15.4 (Radio 3)	GPS (Radio 4)
	2.4G	2.45G	2.4835G	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 1	UNII 2A	UNII 2C	UNII 3		
1	2.3	2.62	2.51	-	-	-	-	-	-	-	-	-	-
2	2.79	3.09	3.11	-	-	-	-	-	-	-	-	-	-
3	3.18	2.35	2.56	-	-	-	-	4.4	4.4	4.4	4.4	-	-
4	3.8	4.63	3.64	-	-	-	-	4.4	4.4	4.4	4.4	-	-
5	-	-	-	3.18	2.87	2.65	2.51	-	-	-	-	-	-
6	-	-	-	3.24	3.59	3.6	3.35	-	-	-	-	-	-
7	-	-	-	3.75	4.08	3.8	4.59	-	-	-	-	-	-
8	-	-	-	3.3	3.05	2.6	2.53	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	4.9	-
14	-	-	-	-	-	-	-	-	-	-	-	-	3.3



Ant.	Directional Gain (dBi)														
	WLAN 2.4GHz (Radio 1) (Scanning Radio 1)														
	2.4G		2.45G		2.4835G		2.4G			2.45G			2.4835G		
	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S
1	4.13	2.79	4.72	3.09	4.15	3.11	7.27	4.27	3.8	7.68	4.68	4.63	7.05	4.05	3.64
2															
3	-	-	-	-	-	-									
4															

Ant.	Directional Gain (dBi)							
	WLAN 5GHz (Radio 2)							
	UNII 1		UNII 2A		UNII 2C		UNII 3	
	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S
5	5.5	3.24	5.81	3.59	4.34	3.6	4.53	3.35
6								

Ant.	Directional Gain (dBi)											
	WLAN 5GHz (Radio 2)											
	UNII 1			UNII 2A			UNII 2C			UNII 3		
	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S
5	8.43	5.43	3.75	8.12	5.12	4.08	7.02	4.02	3.8	7.68	4.68	4.59
6												
7												
8												

Note 2: The EUT has fourteen antennas.

Note 3: The above information (except gain of Radio 1 2.4GHz, Scanning Radio 1 2.4GHz, Radio 2) was declared by manufacturer.

Note 4: Radio 1 2.4GHz, Scanning Radio 1 2.4GHz, Radio 2: Maximum Directional Gain following KDB662911 D03.

Note 5: Scanning Radio 1 5GHz: Maximum Directional Gain following KDB662911 D01.

Note 6: The EUT doesn't enable the 6GHz band. The antenna 9~12 is 6GHz's antenna. Thus, the antenna 9~12 function doesn't enable it at this time.

Note 7: Directional gain information.

For Scanning Radio 1 5GHz

5G G1 = 4.4 dBi; G2 = 4.4 dBi

5G 2T1S DG= 7.41 dBi; 2T2S DG= 4.4 dBi

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

Only Port 1 can be use as transmitting antenna.

2TX

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

Port 1, Port 2 could transmitting simultaneously.

4TX

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

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

4RX

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

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

For Scanning Radio 1**For 2.4GHz:****For IEEE 802.11b/g/n/VHT/ax 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 5GHz UNII 1~3:**For IEEE 802.11a/n/ac/ax mode (2TX/2RX):**

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

Port 1, Port 2 could transmit/receive simultaneously.

For Radio 2**For 5GHz UNII 1~3:****For IEEE 802.11a/n/ac/ax mode (1TX, 2TX, 4TX/4RX):****1TX**

Only Port 1 can be use as transmitting antenna.

2TX

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

Port 1, Port 2 could transmitting simultaneously.

4TX

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

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

4RX

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

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

For Radio 3**Bluetooth / IEEE802.15.4 (1TX):**

Only Port 1 can be used as transmitting antenna.

For Radio 4**GPS (1RX):**

Only Port 1 can be used as receiving antenna.

**1.1.3 Mode Test Duty Cycle****For Radio 2****1T1S**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.948	0.23	2.065m	1k
802.11ax HEW20	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.963	0.16	781.25u	3k
802.11ax HEW80	0.938	0.28	415u	3k
802.11ax HEW160	0.898	0.47	237.5u	10k

2T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.956	0.2	2.065m	1k

2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.966	0.15	781.25u	3k
802.11ax HEW40	0.934	0.3	427.5u	3k
802.11ax HEW80	0.901	0.45	245u	10k
802.11ax HEW160	0.852	0.7	155u	10k

4T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.948	0.23	2.066m	1k
802.11ax HEW20	0.98	0.09	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.963	0.16	782.5u	3k
802.11ax HEW80	0.938	0.28	415u	3k
802.11ax HEW160	0.898	0.47	237.5u	10k

4T4S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40	0.968	0.14	781.25u	3k
802.11ax HEW80	0.938	0.28	415u	3k
802.11ax HEW160	0.818	0.87	123.5u	10k

For Scanning radio 1**2T1S**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.951	0.22	2.068m	1k

2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.968	0.14	782.5u	3k
802.11ax HEW40	0.944	0.25	430u	3k
802.11ax HEW80	0.906	0.43	247.5u	10k



Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/11ax in radio 1 2.4GHz, 11n/11ac/11ax in radio 2 5GHz.			
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	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	Mtool (v3.2.1.5)			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT support function

Function
AP
Bridge
Mesh

Note1: For above table list, only AP mode was tested and recorded in this test.

Note2: The above information was declared by manufacturer.

1.1.6 Table for Radio function

Radio (R)	WLAN 2.4GHz	5GHz	Scanning radio (WLAN 2.4GHz 4TX / 5GHz 2TX)	Bluetooth / IEEE802.15.4	GPS
R1	V (AP, Bridge, Mesh)	-	V (AP, Bridge, Mesh for 2.4GHz, AP for 5GHz UNII 1~3)	-	-
R2	-	V (AP for UNII 1~3 / Bridge, Mesh for UNII 1, 3)	-	-	-
R3	-	-	-	V	-
R4	-	-	-	-	V

Note: The above information was declared by manufacturer.



1.1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR251735AF

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Add UNII 2A and UNII 2C (5250~5350MHz and 5470~5725MHz) for this device. 2. Add 160MHz for Radio 2.	1. Emission Bandwidth 2. Maximum Output Power 3. Power Spectral Density 4. Unwanted Emissions above 1GHz



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 412172 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Caster Chang	25.6~26.1 / 65~69	Jun. 06, 2022~Sep. 06, 2022
Radiated above 1GHz	03CH01-CB	RJ Huang	24.1~26.1 / 60~65	Jun. 30, 2022~Aug. 26, 2022
	03CH03-CB		23.7~25.1 / 66~68	
	03CH04-CB		24.3~25.9 / 62~66	

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
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Radio 2
1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	95
5300MHz	95
5320MHz	90
5500MHz	88
5580MHz	84
5700MHz	71
5720MHz Straddle 5.47-5.725GHz	78
5720MHz Straddle 5.725-5.85GHz	78
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5260MHz	96
5300MHz	94
5320MHz	89
5500MHz	90
5580MHz	82
5700MHz	65
5720MHz Straddle 5.47-5.725GHz	74
5720MHz Straddle 5.725-5.85GHz	74
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5270MHz	89
5310MHz	79
5510MHz	72
5550MHz	75
5670MHz	73
5710MHz Straddle 5.47-5.725GHz	87
5710MHz Straddle 5.725-5.85GHz	87
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5290MHz	75
5530MHz	79
5610MHz	83
5690MHz Straddle 5.47-5.725GHz	86
5690MHz Straddle 5.725-5.85GHz	86
802.11ax HEW160_Nss1,(MCS0)_1TX	-
5250MHz Straddle 5.15-5.25GHz	62



Mode	Power Setting
5250MHz Straddle 5.25-5.35GHz	62
5570MHz	54

2T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	82
5300MHz	83
5320MHz	83
5500MHz	84
5580MHz	83
5700MHz	61
5720MHz Straddle 5.47-5.725GHz	73
5720MHz Straddle 5.725-5.85GHz	73

2T2S

Mode	Power Setting
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5260MHz	81
5300MHz	82
5320MHz	80
5500MHz	82
5580MHz	81
5700MHz	61
5720MHz Straddle 5.47-5.725GHz	76
5720MHz Straddle 5.725-5.85GHz	76
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5270MHz	82
5310MHz	67
5510MHz	70
5550MHz	80
5670MHz	68
5710MHz Straddle 5.47-5.725GHz	73
5710MHz Straddle 5.725-5.85GHz	73
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5290MHz	58
5530MHz	71
5610MHz	75
5690MHz Straddle 5.47-5.725GHz	84
5690MHz Straddle 5.725-5.85GHz	84
802.11ax HEW160_Nss2,(MCS0)_2TX	-
5250MHz Straddle 5.15-5.25GHz	50



Mode	Power Setting
5250MHz Straddle 5.25-5.35GHz	50
5570MHz	45

**4T1S
for non beamforming mode**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	62
5300MHz	63
5320MHz	64
5500MHz	68
5580MHz	65
5700MHz	67
5720MHz Straddle 5.47-5.725GHz	69
5720MHz Straddle 5.725-5.85GHz	69
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	64
5300MHz	64
5320MHz	67
5500MHz	68
5580MHz	67
5700MHz	56
5720MHz Straddle 5.47-5.725GHz	70
5720MHz Straddle 5.725-5.85GHz	70
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	68
5310MHz	62
5510MHz	67
5550MHz	66
5670MHz	65
5710MHz Straddle 5.47-5.725GHz	72
5710MHz Straddle 5.725-5.85GHz	72
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	62
5530MHz	65
5610MHz	70
5690MHz Straddle 5.47-5.725GHz	73
5690MHz Straddle 5.725-5.85GHz	73
802.11ax HEW160_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	45
5250MHz Straddle 5.25-5.35GHz	45



Mode	Power Setting
5570MHz	45

for beamforming mode

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	61
5300MHz	61
5320MHz	64
5500MHz	65
5580MHz	64
5700MHz	56
5720MHz Straddle 5.47-5.725GHz	68
5720MHz Straddle 5.725-5.85GHz	68
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	60
5310MHz	62
5510MHz	65
5550MHz	63
5670MHz	65
5710MHz Straddle 5.47-5.725GHz	69
5710MHz Straddle 5.725-5.85GHz	69
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	62
5530MHz	65
5610MHz	66
5690MHz Straddle 5.47-5.725GHz	69
5690MHz Straddle 5.725-5.85GHz	69
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	45
5250MHz Straddle 5.25-5.35GHz	45
5570MHz	45

**4T4S**

Mode	Power Setting
802.11ax HEW20_Nss4,(MCS0)_4TX	-
5260MHz	69
5300MHz	70
5320MHz	71
5500MHz	68
5580MHz	66
5700MHz	65
5720MHz Straddle 5.47-5.725GHz	71
5720MHz Straddle 5.725-5.85GHz	71
802.11ax HEW40_Nss4,(MCS0)_4TX	-
5270MHz	70
5310MHz	66
5510MHz	48
5550MHz	68
5670MHz	67
5710MHz Straddle 5.47-5.725GHz	70
5710MHz Straddle 5.725-5.85GHz	70
802.11ax HEW80_Nss4,(MCS0)_4TX	-
5290MHz	65
5530MHz	71
5610MHz	71
5690MHz Straddle 5.47-5.725GHz	76
5690MHz Straddle 5.725-5.85GHz	76
802.11ax HEW160_Nss4,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	45
5250MHz Straddle 5.25-5.35GHz	45
5570MHz	50

**For Scanning radio 1
2T1S**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	79
5300MHz	79
5320MHz	80
5500MHz	79
5580MHz	76
5700MHz	64
5720MHz Straddle 5.47-5.725GHz	75
5720MHz Straddle 5.725-5.85GHz	75

2T2S

Mode	Power Setting
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5260MHz	83
5300MHz	83
5320MHz	78
5500MHz	84
5580MHz	82
5700MHz	60
5720MHz Straddle 5.47-5.725GHz	80
5720MHz Straddle 5.725-5.85GHz	80
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5270MHz	82
5310MHz	67
5510MHz	65
5550MHz	82
5670MHz	69
5710MHz Straddle 5.47-5.725GHz	80
5710MHz Straddle 5.725-5.85GHz	80
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5290MHz	62
5530MHz	65
5610MHz	80
5690MHz Straddle 5.47-5.725GHz	81
5690MHz Straddle 5.725-5.85GHz	81


Note:

- ♦ Evaluated HEW20/HEW40/HEW80/HEW160 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.
- ♦ 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	Emission Bandwidth Maximum Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains
1	Refer to note 1 for detail operating mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode > 1GHz	CTX
	1. The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found as below. So the measurement will follow this same test configuration. 2. Refer to note 1 for detail operating mode
1	EUT in X axis_R2_1T1S
2	EUT in Y axis for harmonic and EUT in X axis for bandedge_R2_2T1S_2T2S
3	EUT in X axis_R2_4T1S
4	EUT in X axis_R2_4T4S
5	EUT in Y axis_Scanning R1_2T1S_2T2S

Note 1: Test Mode

Test Mode											
Test Item	802.11a					802.11ax HEW20/40/80/160					
	1T1S	2T1S	2T2S	4T1S	4T4S	1T1S	2T1S	2T2S	4T1S	TXBF 4T1S	4T4S
Maximum Conducted Output Power	V	V	-	V	-	V	Note2	V	V	V	V
Emission Bandwidth	V	V	-	V	-	V	Note2	V	V	-	V
Peak Power Spectral Density	V	V	-	V	-	V	Note2	V	V	-	V
Radiated Emission	V	V	-	V	-	V	Note2	V	V	-	V
Band Edge Emission	V	V	-	V	-	V	Note2	V	V	-	V



Note 2: 802.11ax HEW20/40/80/160 2T1S CDD mode was covered by 802.11ax HEW20/40/80/160 2T2S, due to $2T1S = \min(2T2S, (2T2S - (10 \cdot \log(2/1) - 2T2S \text{ (worst case of PSD/BE/Harmonic) MARGIN})))$.

Note 3: The PoE and adapter are for measurement only, would not be marketed.

Their information as below:

Power	Brand	Model
PoE 1	Microsemi	PD-9501-10GC/AC
PoE 2	Microsemi	PD-9001GR/AT/AC

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories
Bracket*1
Sealing Collar*2

2.5 Support Equipment

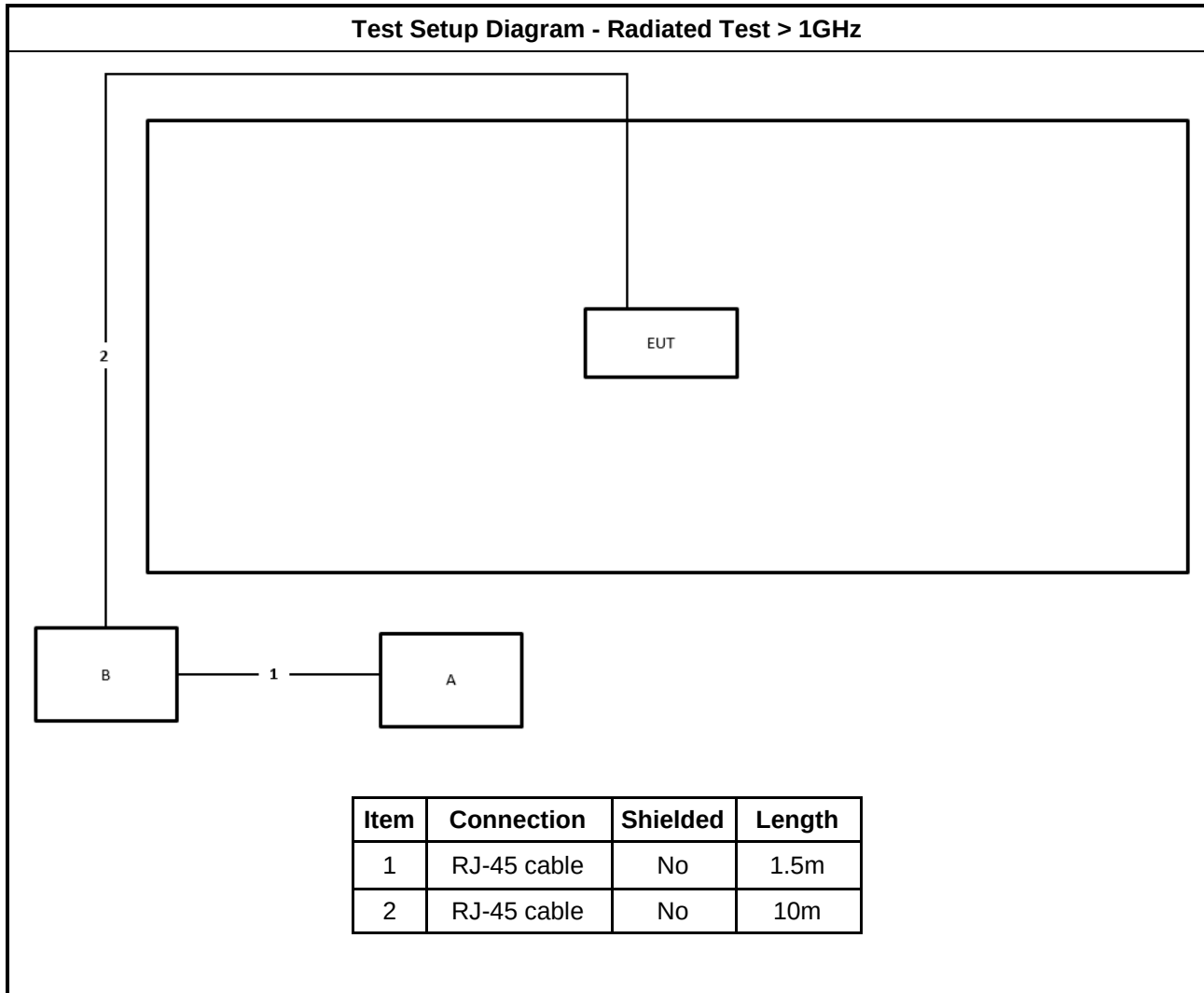
For Radiated (above 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 1	Microsemi	PD-9501-10GC/AC	N/A

For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 2	Microsemi	PD-9001GR/AT/AC	N/A

2.6 Test Setup Diagram





3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 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 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 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 $\geq$ 500kHz.
☐	For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth $\geq$ 500kHz.
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 $\geq$ 500kHz.

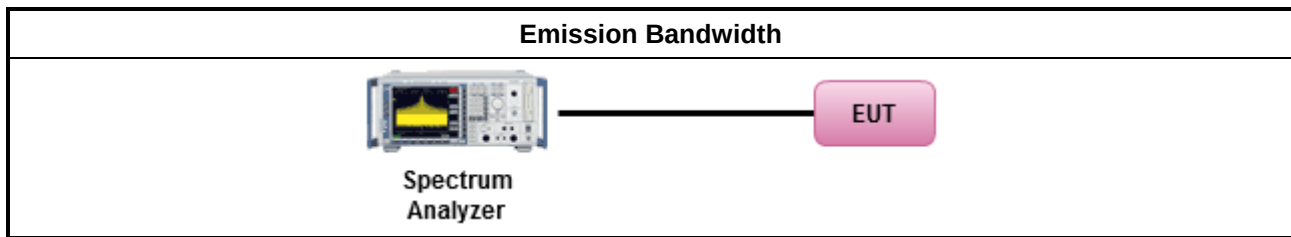
3.1.2 Measuring Instruments

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

3.1.3 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Output Power

3.2.1 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.
Maximum EIRP Limit	
☐ For the 5.85-5.895 GHz band:	
	- Indoor AP & subordinate device < 36 dBm - Client device < 30 dBm
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, 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:	
	- 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.

3.2.2 Measuring Instruments

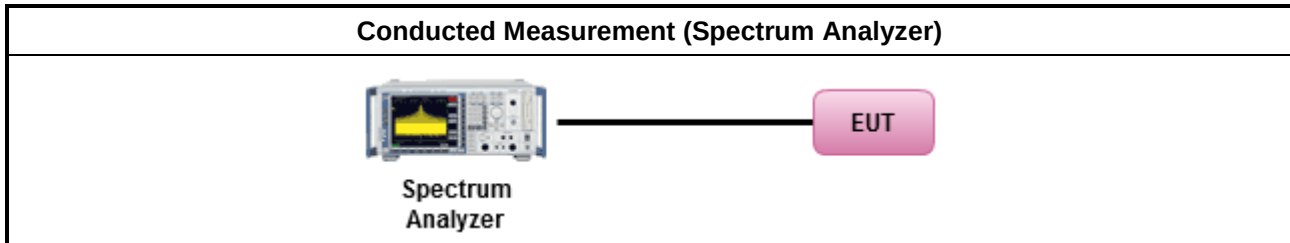
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

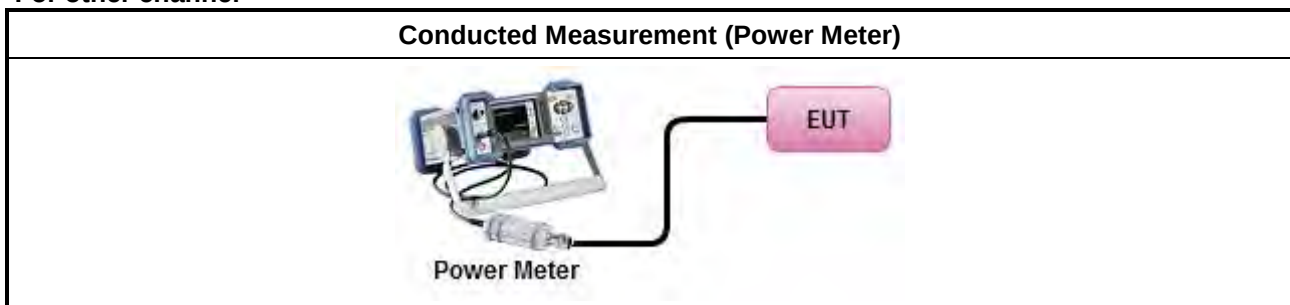
Test Method	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒	For conducted measurement.
	If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☐	For radiated measurement.
	- Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. - Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.2.4 Test Setup

For Straddle channel



For other channel



3.2.5 Test Result of Maximum Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 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.
EIRP Power Spectral Density Limit	
☐ For the 5.85-5.895 GHz band:	
	- Indoor AP & subordinate device < 20dBm/MHz - Client device < 14dBm/MHz
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 $0^\circ \leq \theta < 8^\circ$; $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40)$ 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.

3.3.2 Measuring Instruments

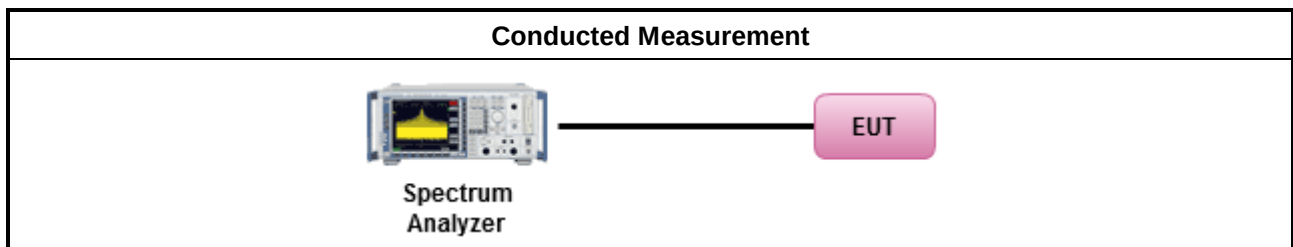
Refer a test equipment and calibration data table in this test report.

3.3.3 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, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☒ For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm])	

Test Method	
	$EIRP_{total} = PPSD_{total} + DG$
☐	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.
	Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 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.
☐ 5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an



	e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
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).	

3.4.2 Measuring Instruments

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

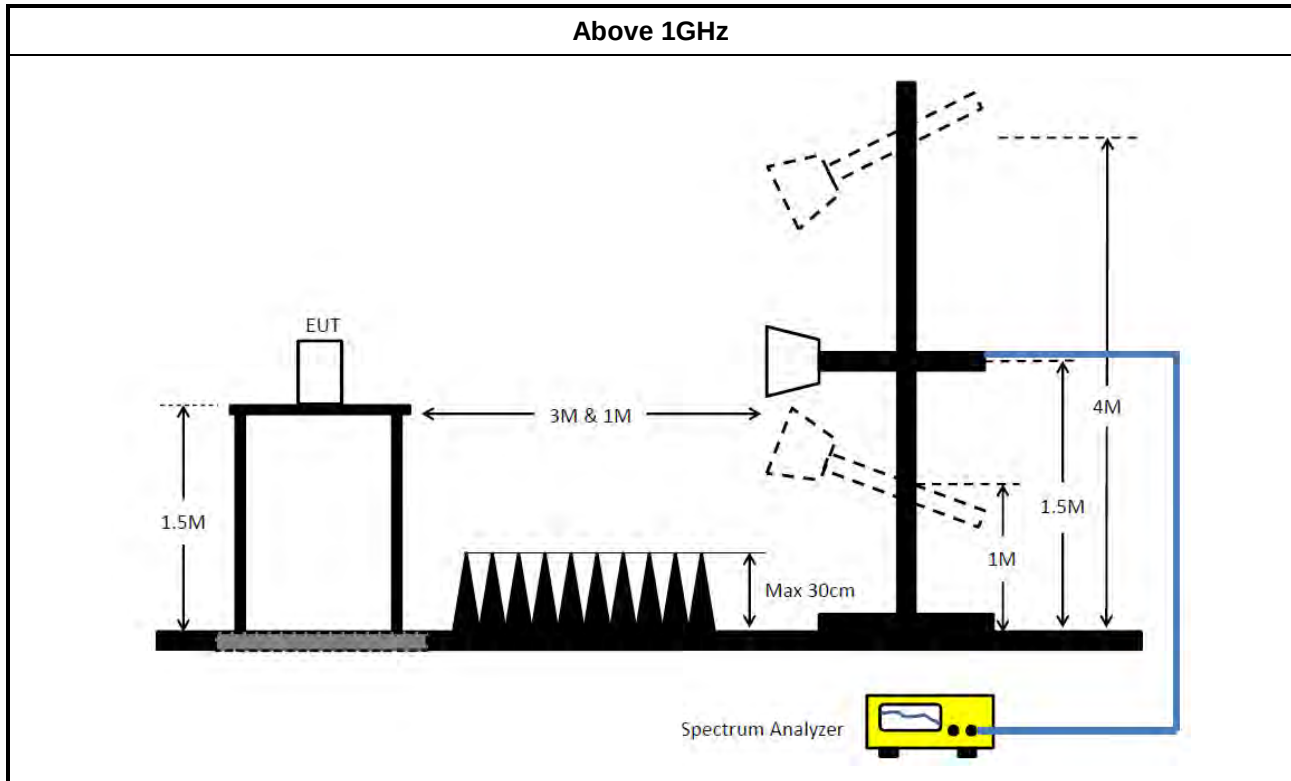
3.4.3 Test Procedures

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:	
For radiated measurement.	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.
The any unwanted emissions level shall not exceed the fundamental emission level.	☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.

Test Method

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

3.4.4 Test Setup



3.4.5 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.

3.4.6 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.

3.4.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGR EN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2021	Nov. 05, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)
Horn Antenna	SCHWARZB ECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 19, 2022	May 18, 2023	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH01-CB)
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 2023	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 05, 2022	May 04, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS-Lindgren	3115	6821	750MHz~18GHz	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH03-CB)
Horn Antenna	SCHWARZB ECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 2023	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH04-CB)
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 2023	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 28, 2022	Mar. 27, 2023	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

N.C.R. means Non-Calibration required.

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_1TX	82.8M	78.361M	78M4D1D	82.8M	78.361M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	38.76M	19.46M	19M5D1D	27.27M	17.631M
802.11ax HEW20_Nss1,(MCS0)_1TX	43.2M	19.79M	19M8D1D	24.51M	19.31M
802.11ax HEW40_Nss1,(MCS0)_1TX	55.8M	38.381M	38M4D1D	43.92M	38.141M
802.11ax HEW80_Nss1,(MCS0)_1TX	87M	78.081M	78M1D1D	87M	78.081M
802.11ax HEW160_Nss1,(MCS0)_1TX	83.12M	78.441M	78M4D1D	83.12M	78.441M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	27.93M	17.541M	17M5D1D	16.485M	13.793M
802.11ax HEW20_Nss1,(MCS0)_1TX	33.42M	19.28M	19M3D1D	16.08M	14.633M
802.11ax HEW40_Nss1,(MCS0)_1TX	58.065M	38.201M	38M2D1D	40.8M	34.423M
802.11ax HEW80_Nss1,(MCS0)_1TX	108.675M	78.201M	78M2D1D	95.4M	74.288M
802.11ax HEW160_Nss1,(MCS0)_1TX	165.36M	156.402M	156MD1D	165.36M	156.402M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.18M	4.658M	4M66D1D	3.18M	4.658M
802.11ax HEW20_Nss1,(MCS0)_1TX	4.48M	4.778M	4M78D1D	4.48M	4.778M
802.11ax HEW40_Nss1,(MCS0)_1TX	3.9M	20.43M	20M4D1D	3.9M	20.43M
802.11ax HEW80_Nss1,(MCS0)_1TX	4M	32.724M	32M7D1D	4M	32.724M

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

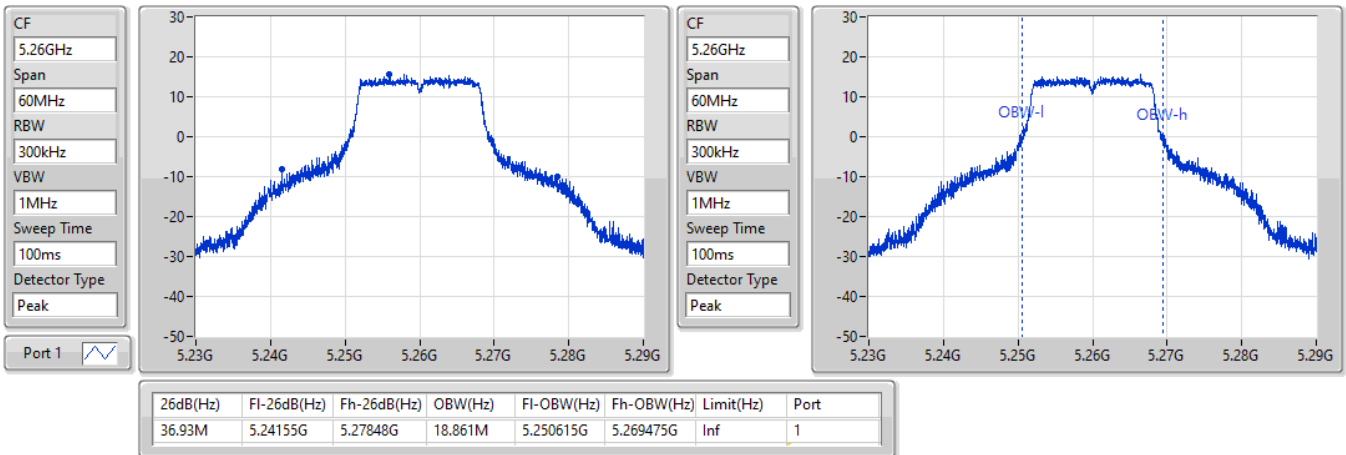
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	36.93M	18.861M
5300MHz	Pass	Inf	38.76M	19.46M
5320MHz	Pass	Inf	27.27M	17.631M
5500MHz	Pass	Inf	27.81M	17.541M
5580MHz	Pass	Inf	27.93M	17.421M
5700MHz	Pass	Inf	22.77M	17.211M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.485M	13.793M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	4.658M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	40.71M	19.79M
5300MHz	Pass	Inf	43.2M	19.73M
5320MHz	Pass	Inf	24.51M	19.31M
5500MHz	Pass	Inf	33.42M	19.28M
5580MHz	Pass	Inf	26.43M	19.22M
5700MHz	Pass	Inf	21.93M	19.16M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.08M	14.633M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.778M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	55.8M	38.381M
5310MHz	Pass	Inf	43.92M	38.141M
5510MHz	Pass	Inf	48.12M	38.201M
5550MHz	Pass	Inf	40.8M	38.021M
5670MHz	Pass	Inf	40.98M	38.021M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	58.065M	34.423M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	20.43M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	87M	78.081M
5530MHz	Pass	Inf	95.4M	78.081M
5610MHz	Pass	Inf	102M	78.201M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	108.675M	74.288M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	32.724M
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.8M	78.361M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.12M	78.441M
5570MHz	Pass	Inf	165.36M	156.402M

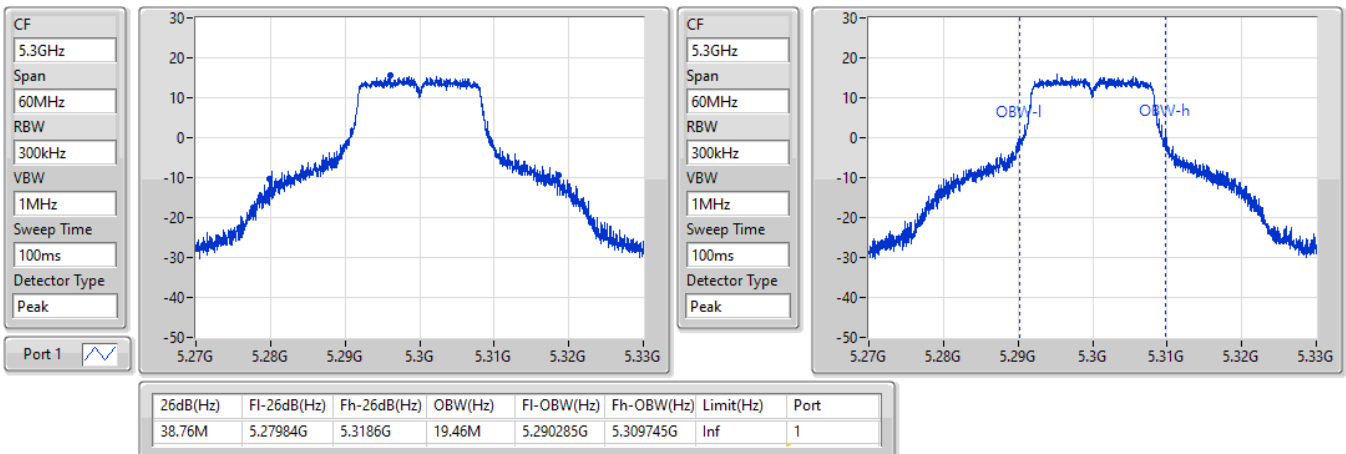
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

27/07/2022

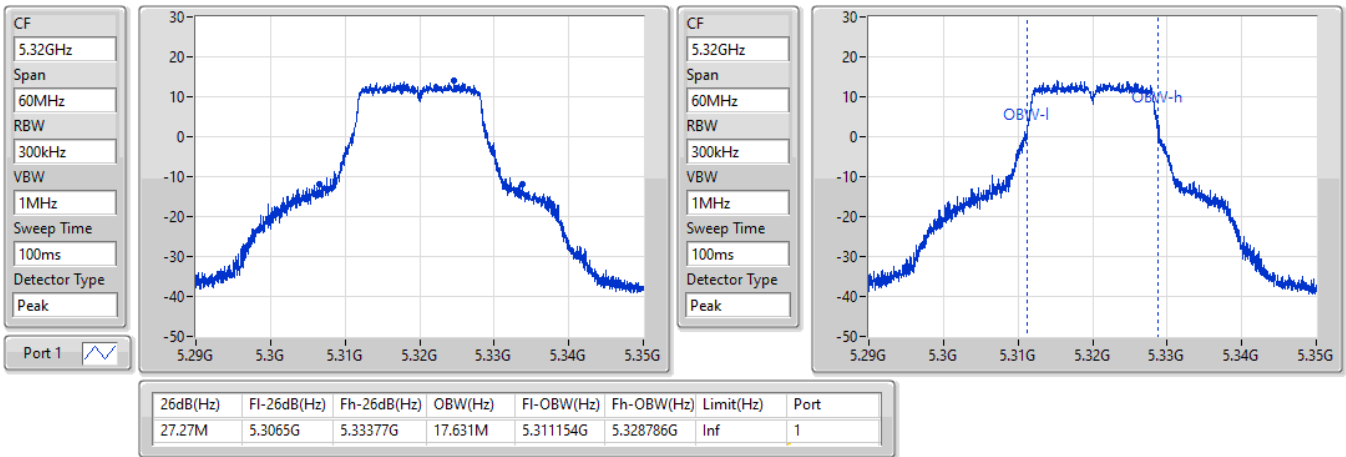

802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

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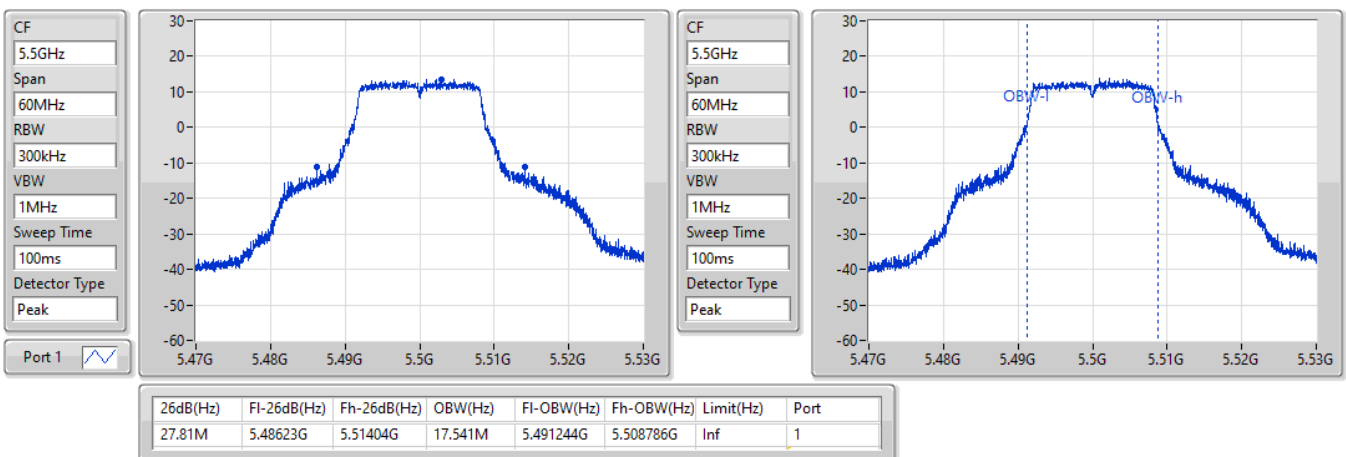


802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

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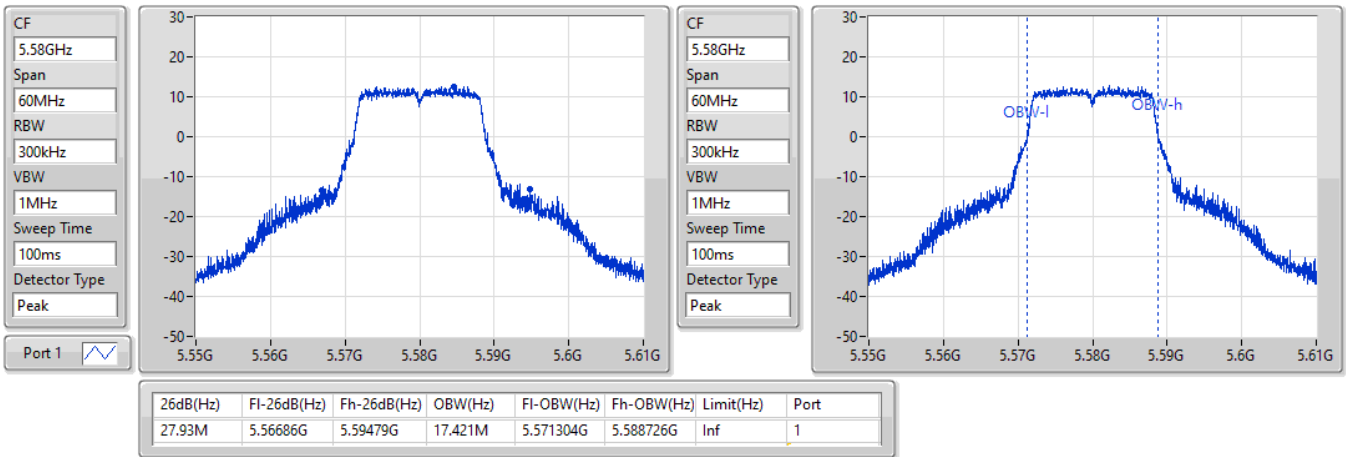

802.11a_Nss1,(6Mbps)_1TX
EBW
5500MHz

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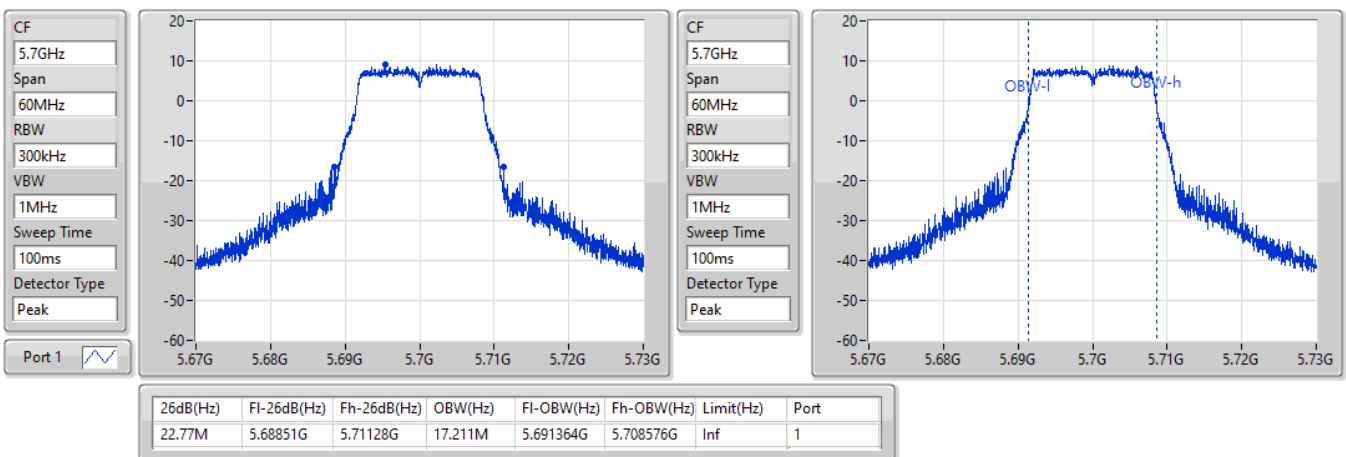


802.11a_Nss1,(6Mbps)_1TX
EBW
5580MHz

27/07/2022

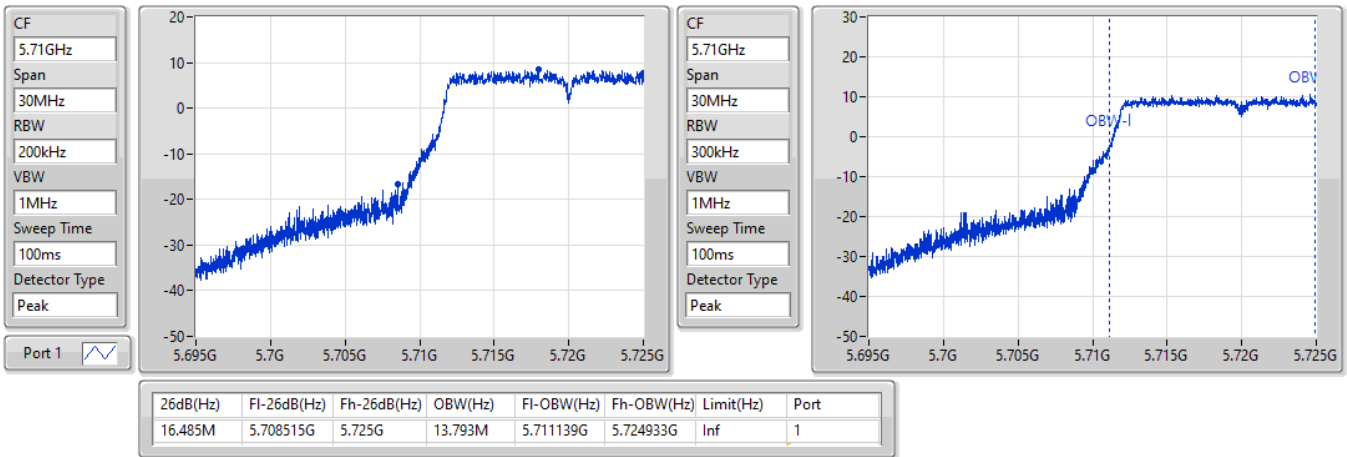

802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

27/07/2022

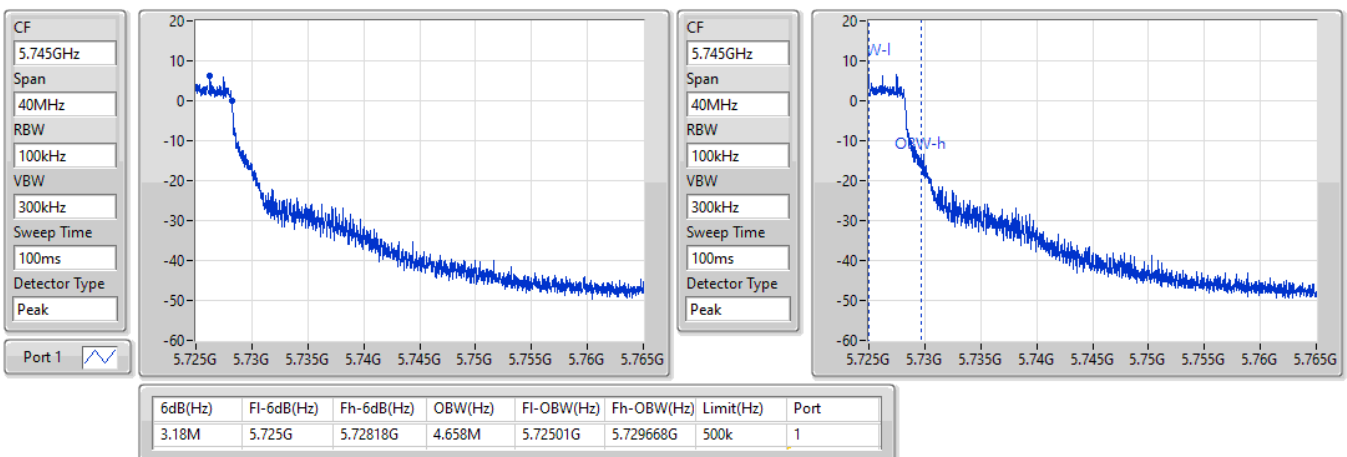


802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

27/07/2022


802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/07/2022

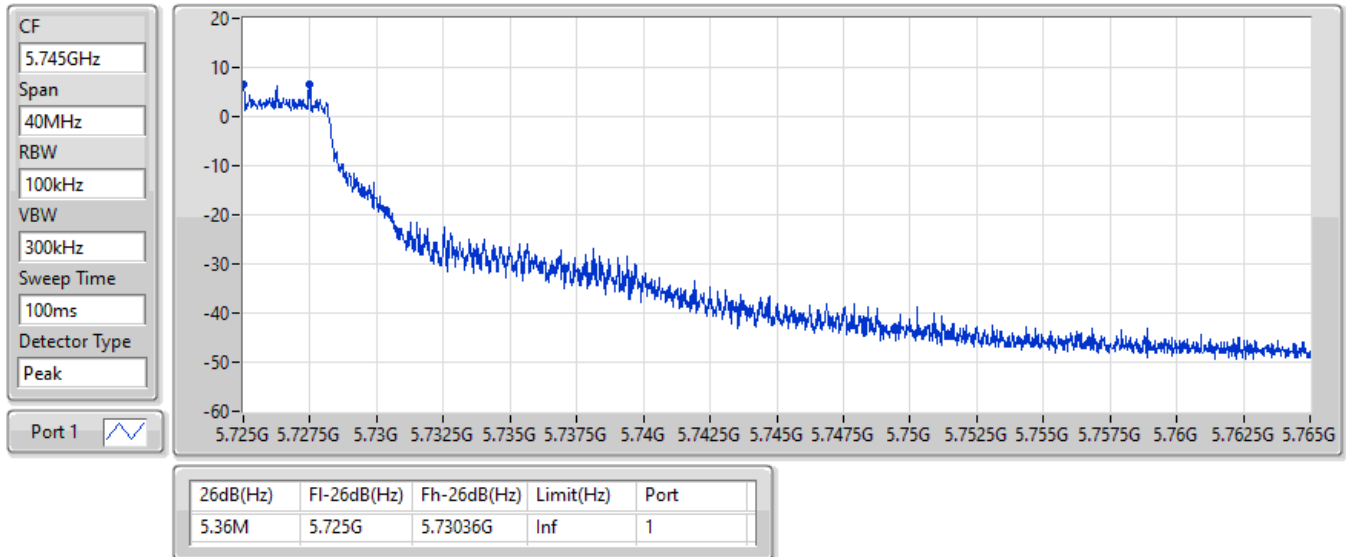


802.11a_Nss1,(6Mbps)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

27/07/2022

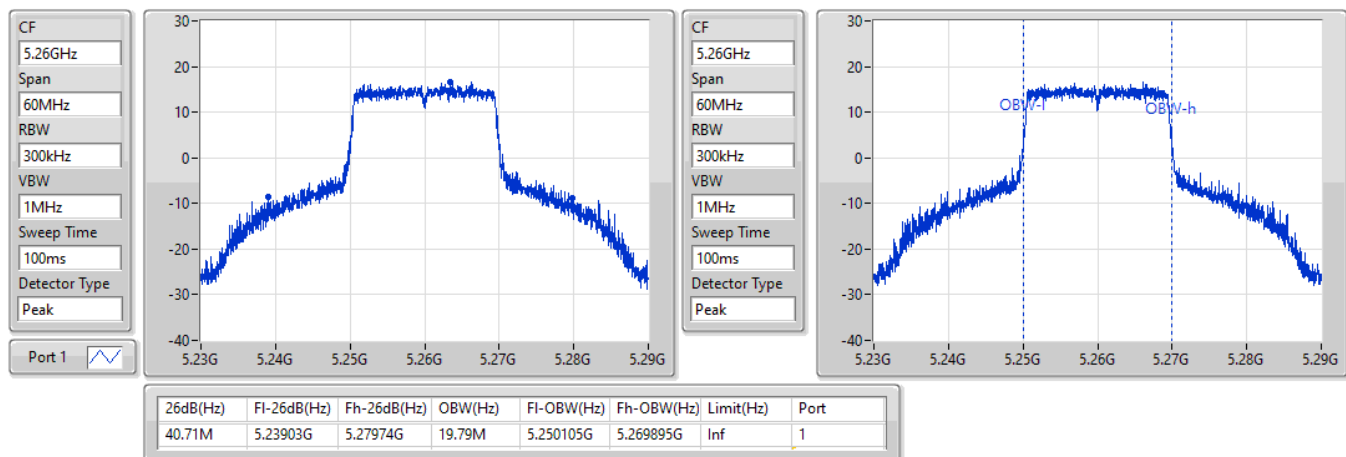


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

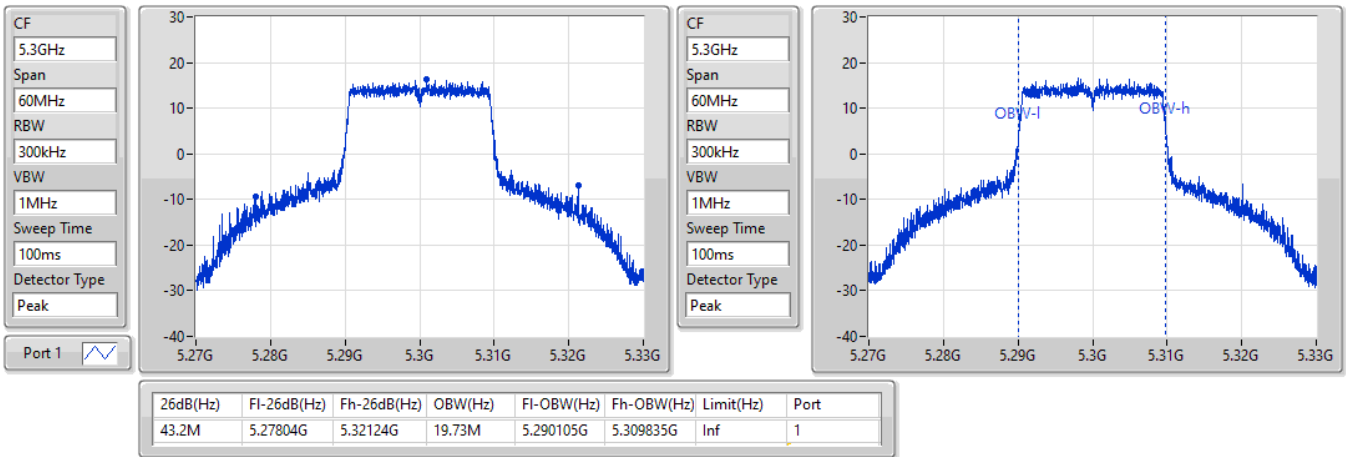
5260MHz

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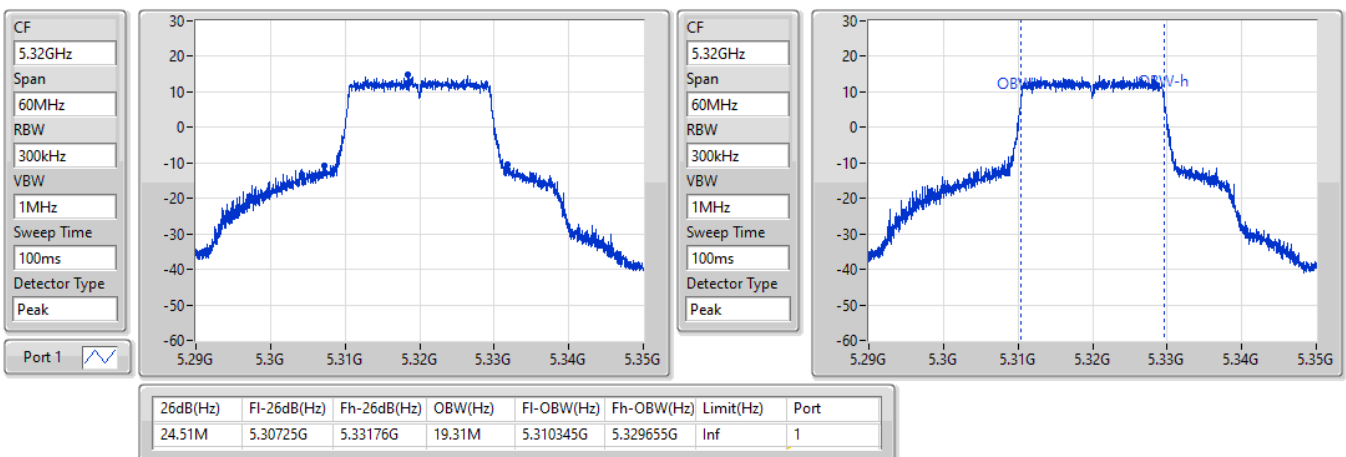


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

27/07/2022

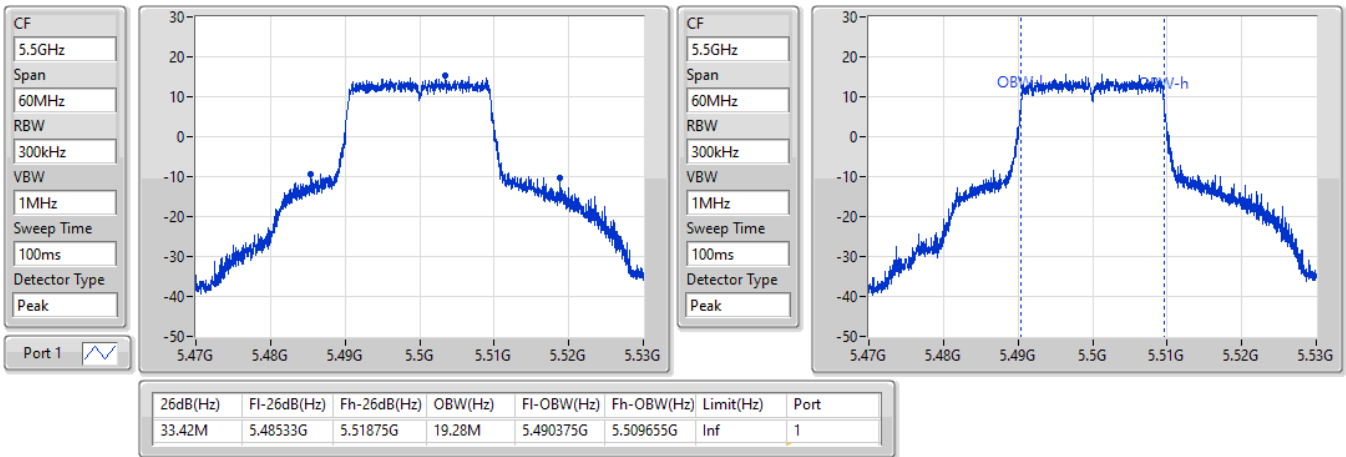

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

27/07/2022

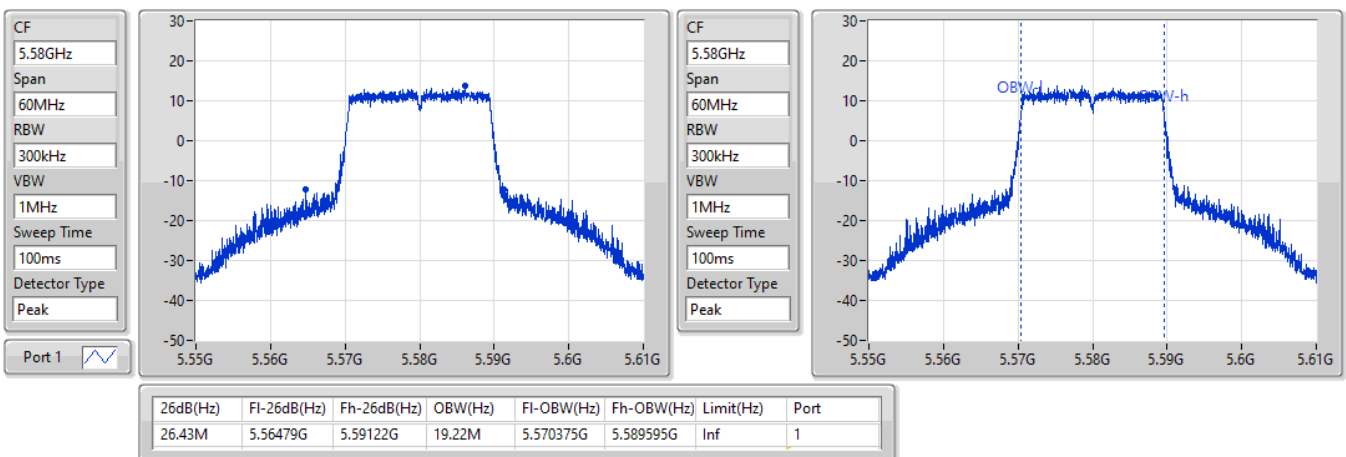


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5500MHz

27/07/2022

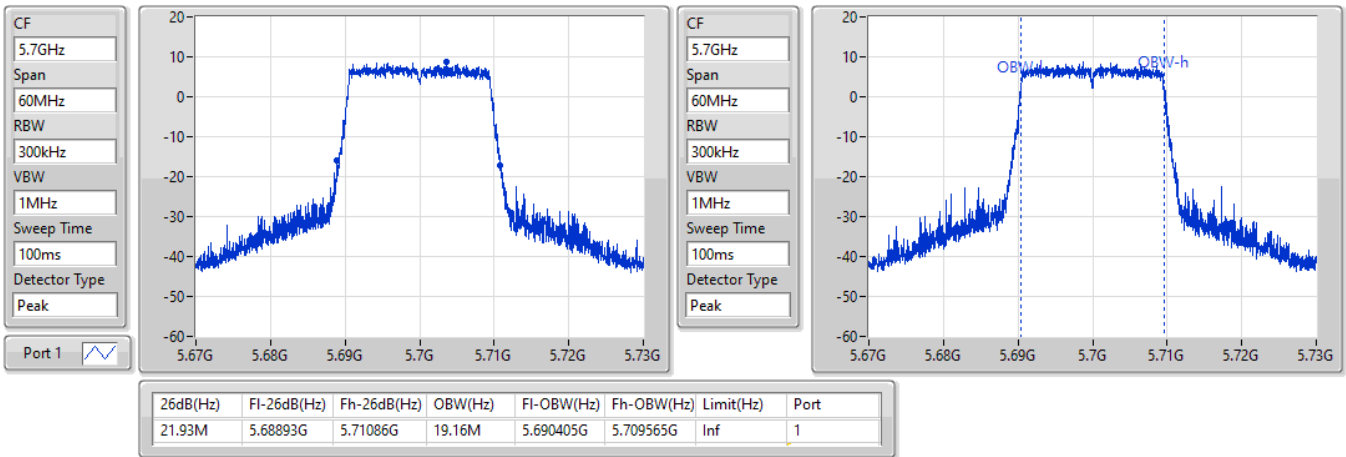

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5580MHz

27/07/2022

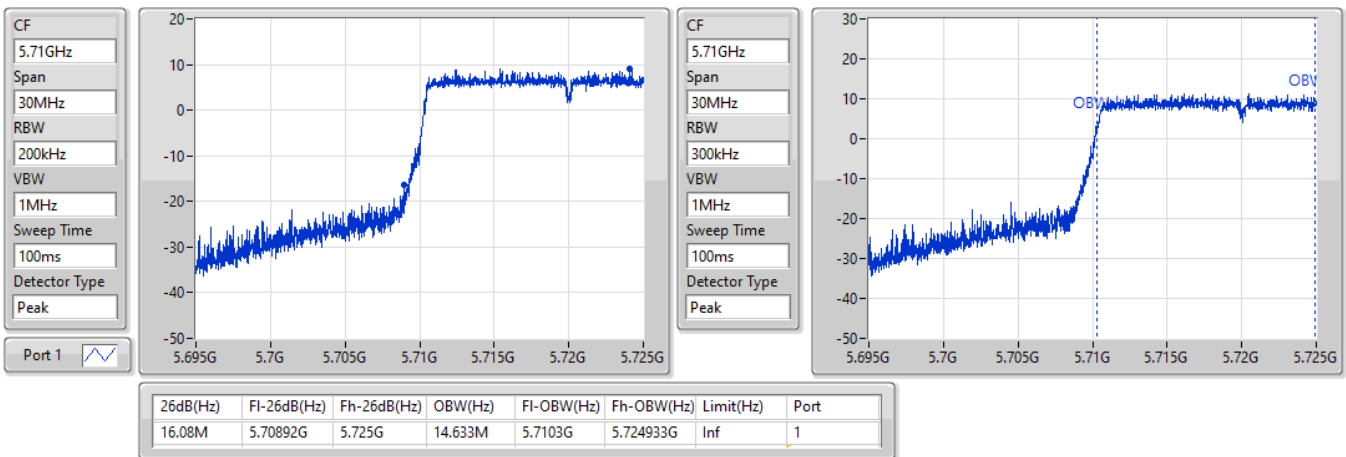


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5700MHz

27/07/2022

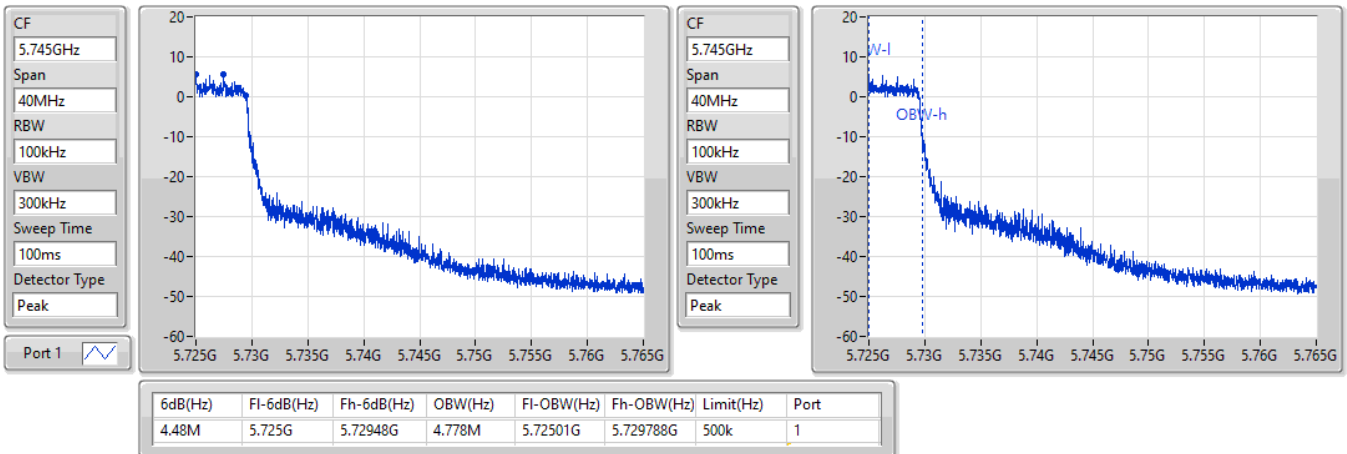

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.67-5.725GHz

27/07/2022

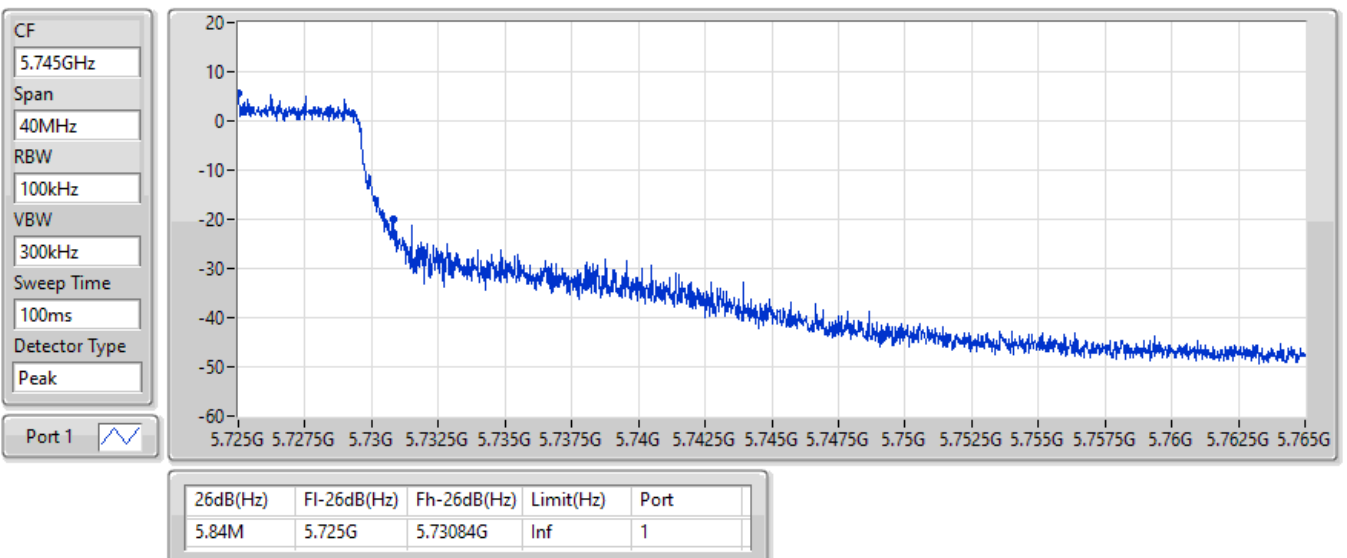


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/07/2022

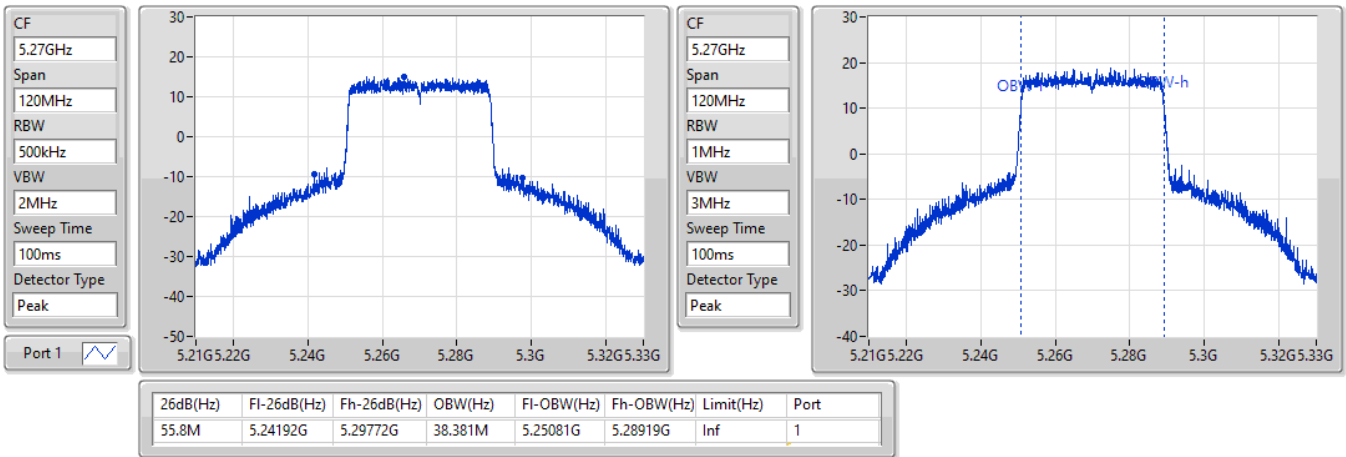

802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/07/2022

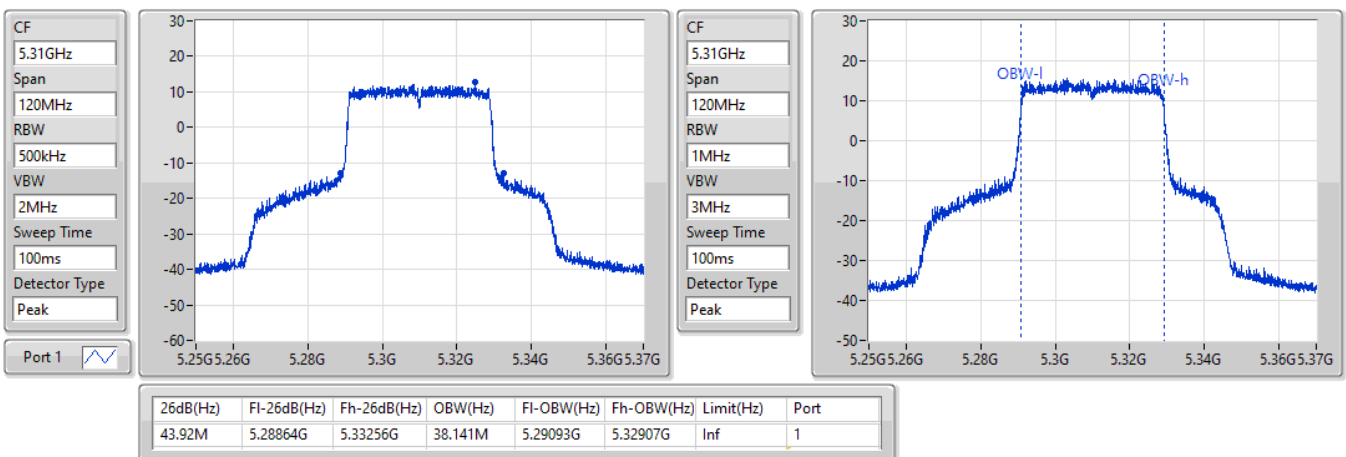


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

27/07/2022

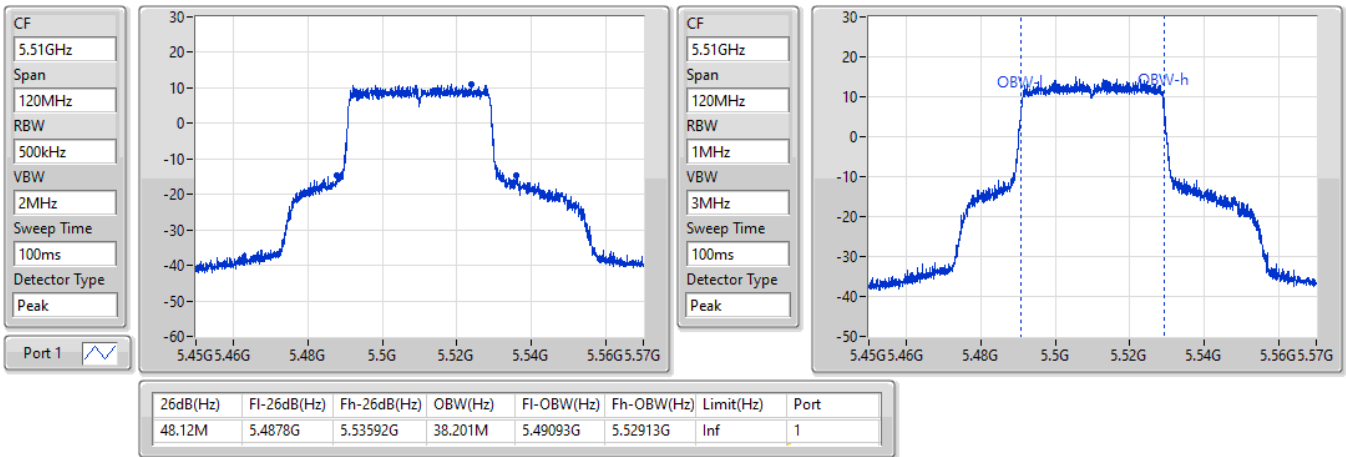

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

27/07/2022

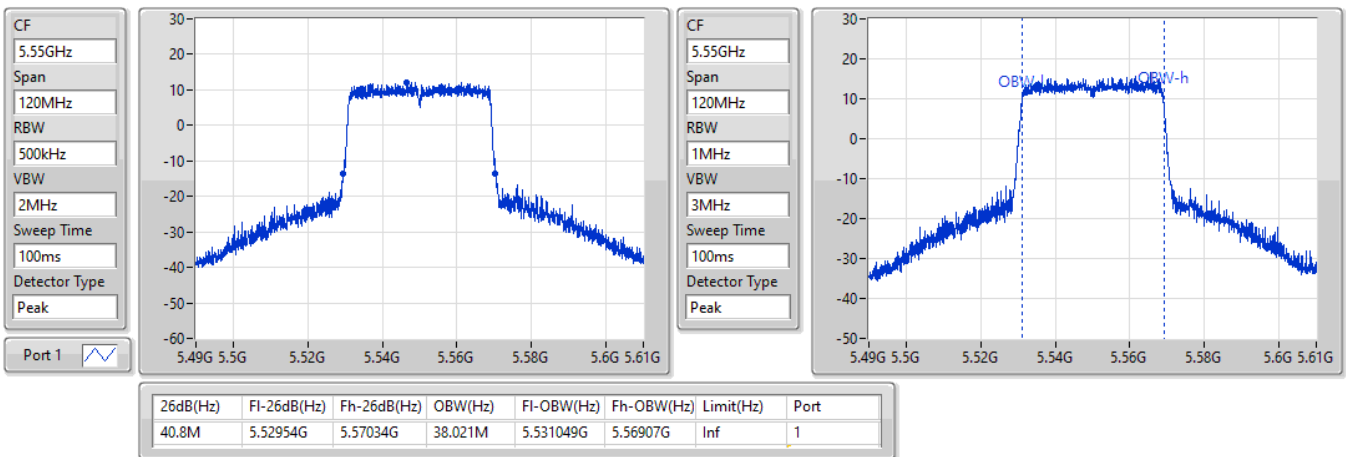


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5510MHz

27/07/2022

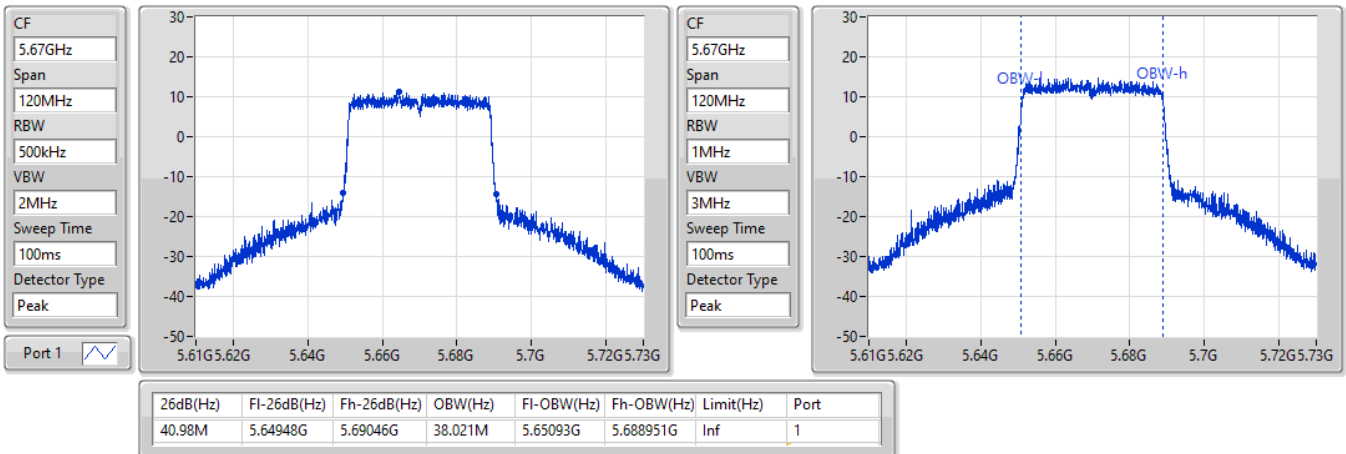

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5550MHz

27/07/2022

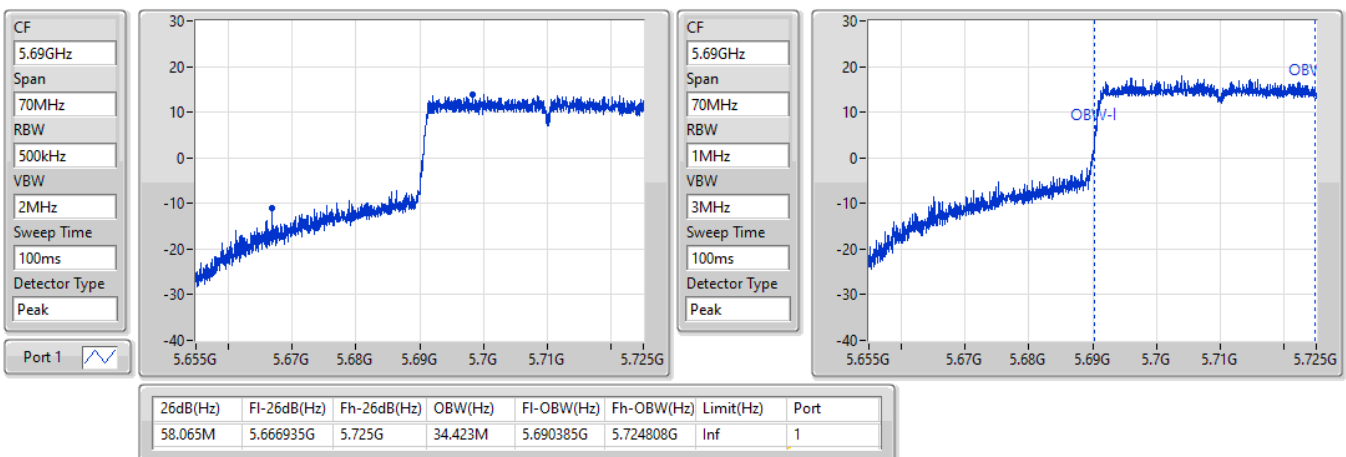


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5670MHz

27/07/2022

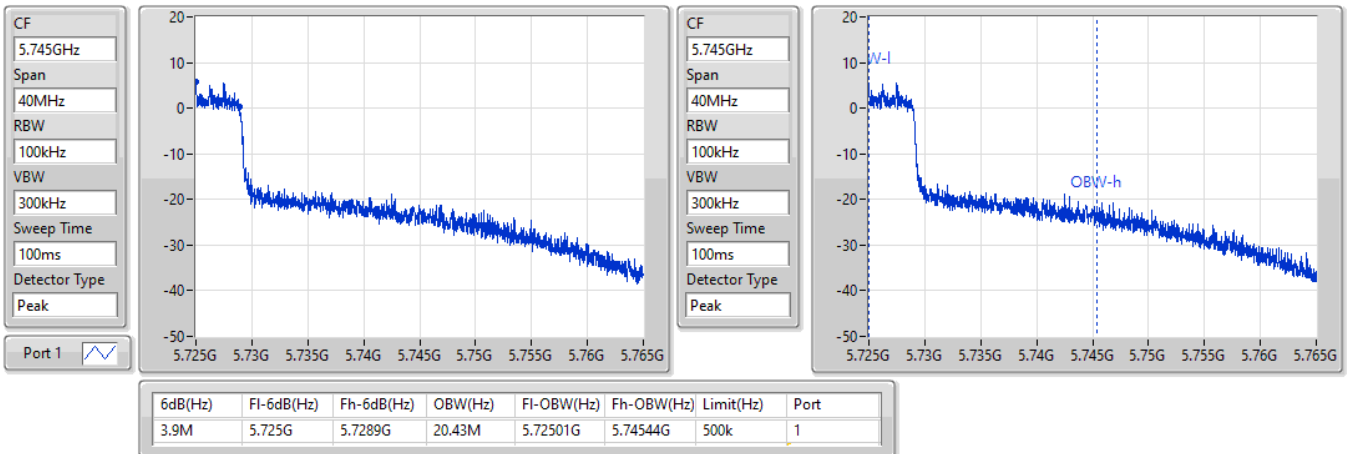

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

27/07/2022

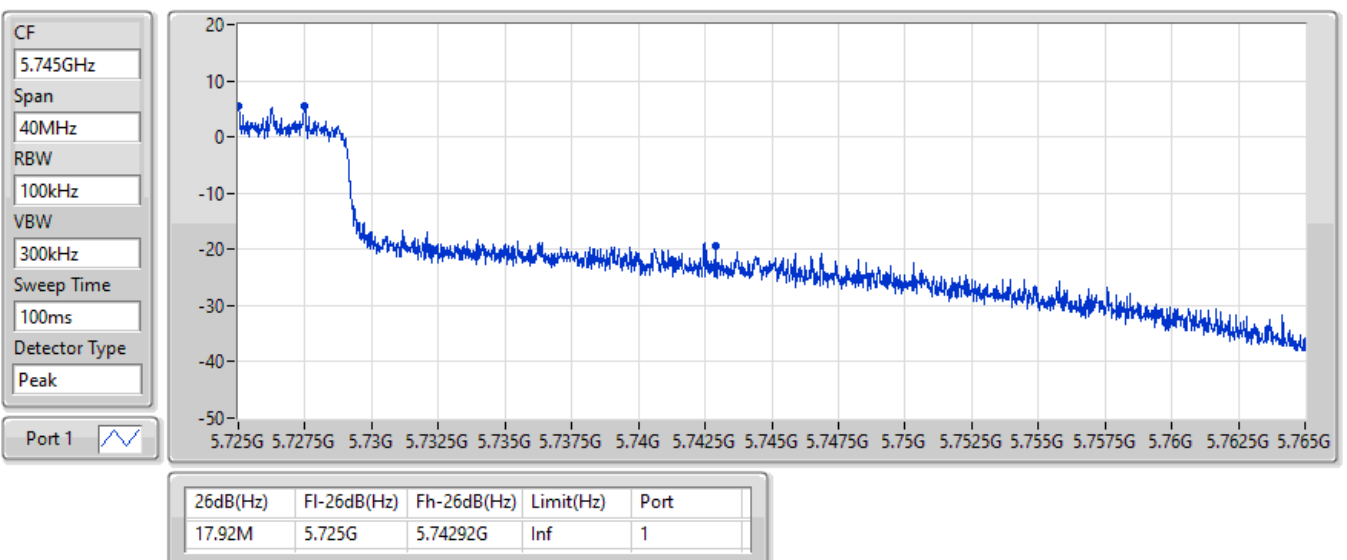


802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

27/07/2022

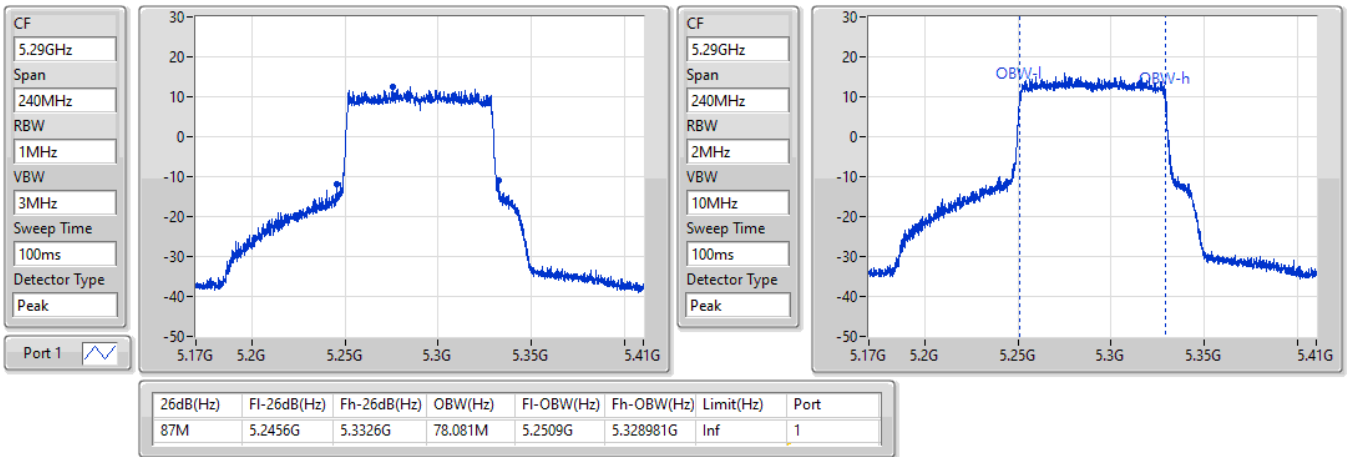

802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

27/07/2022

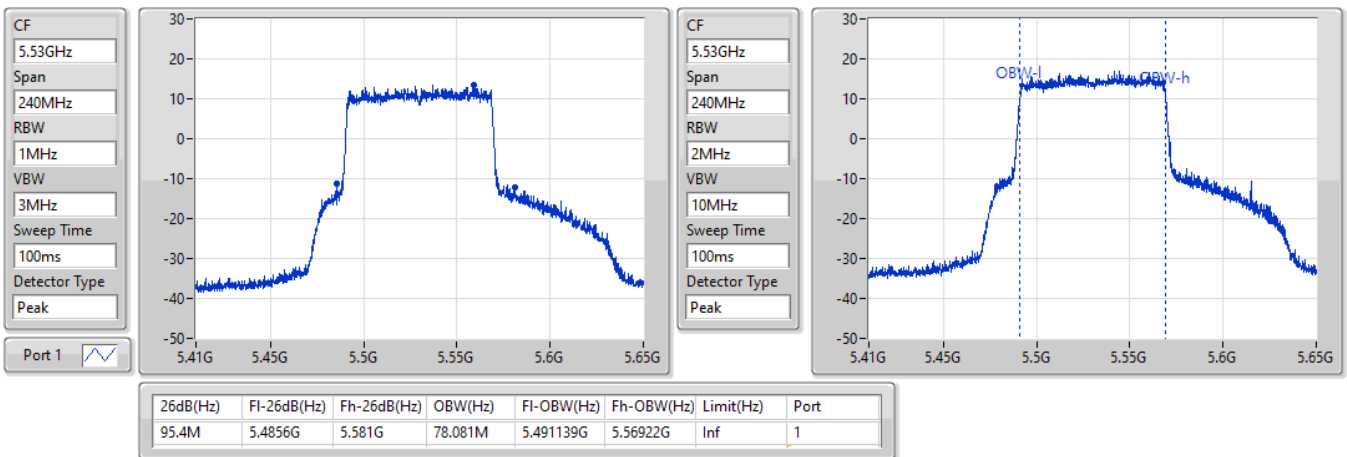


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

27/07/2022

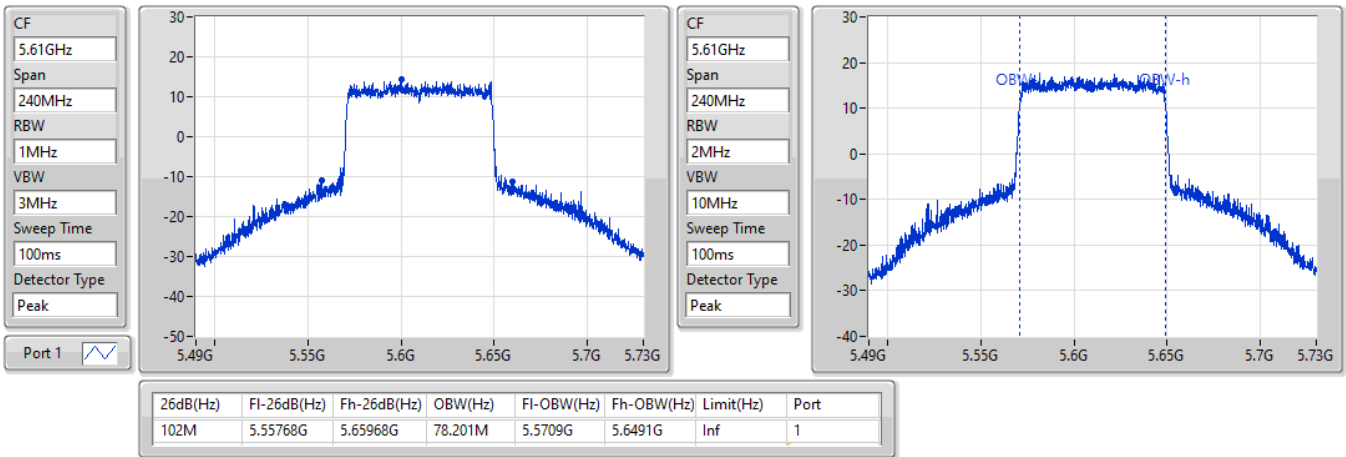

802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5530MHz

27/07/2022

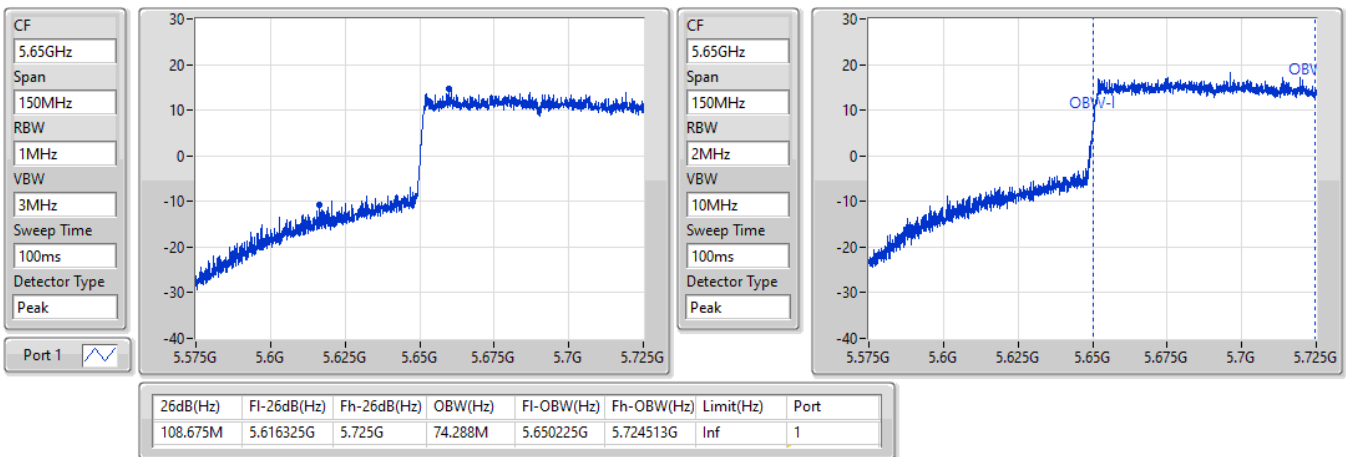


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5610MHz

27/07/2022


802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.47-5.725GHz

27/07/2022

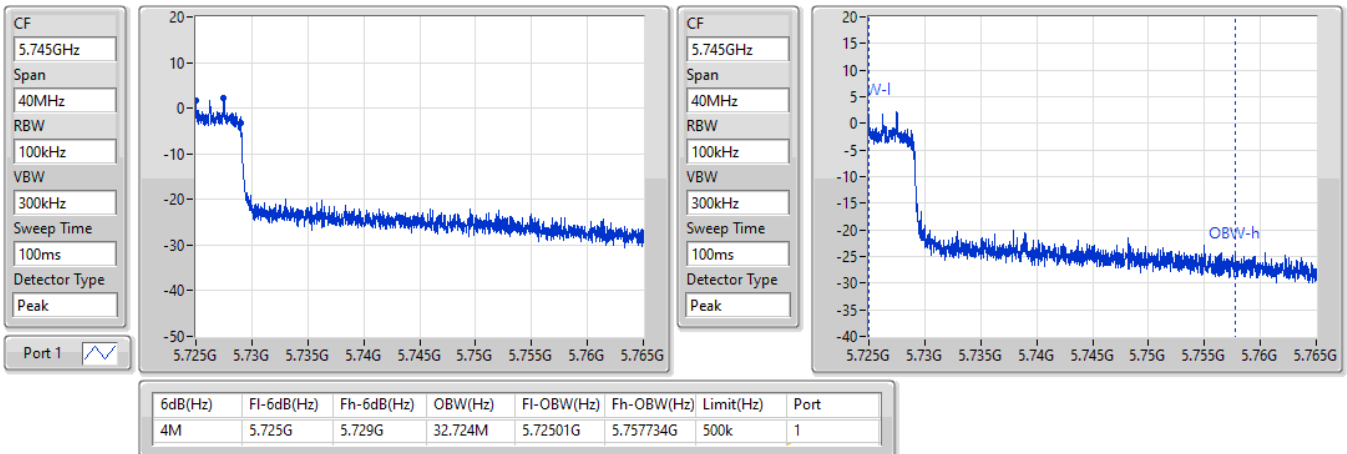


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.725-5.85GHz

27/07/2022

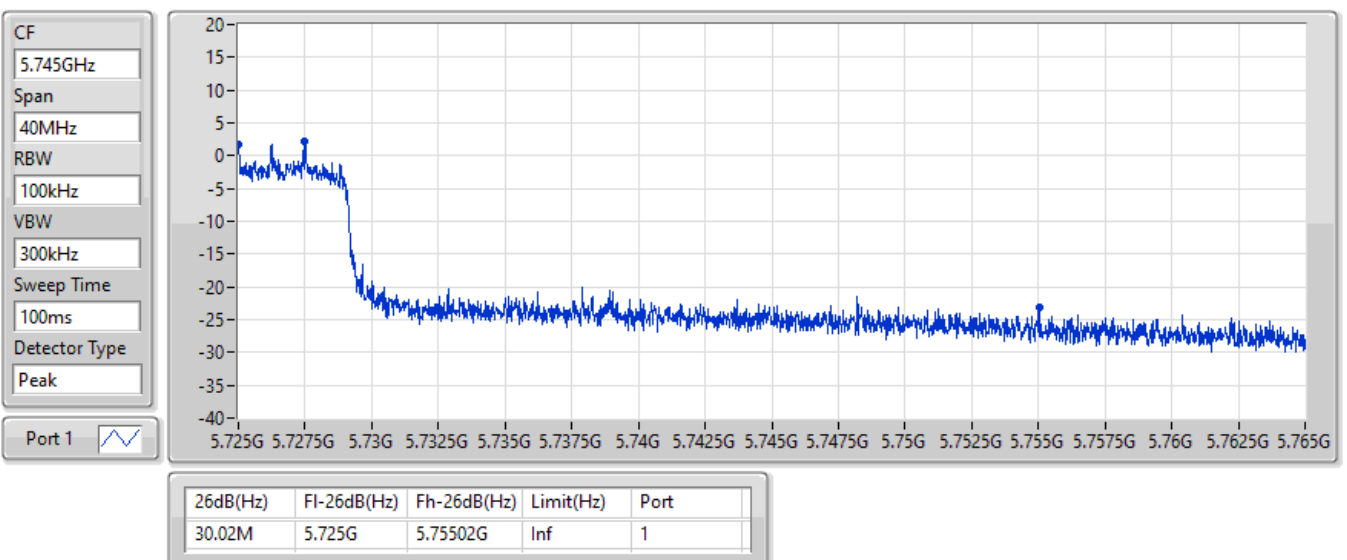


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

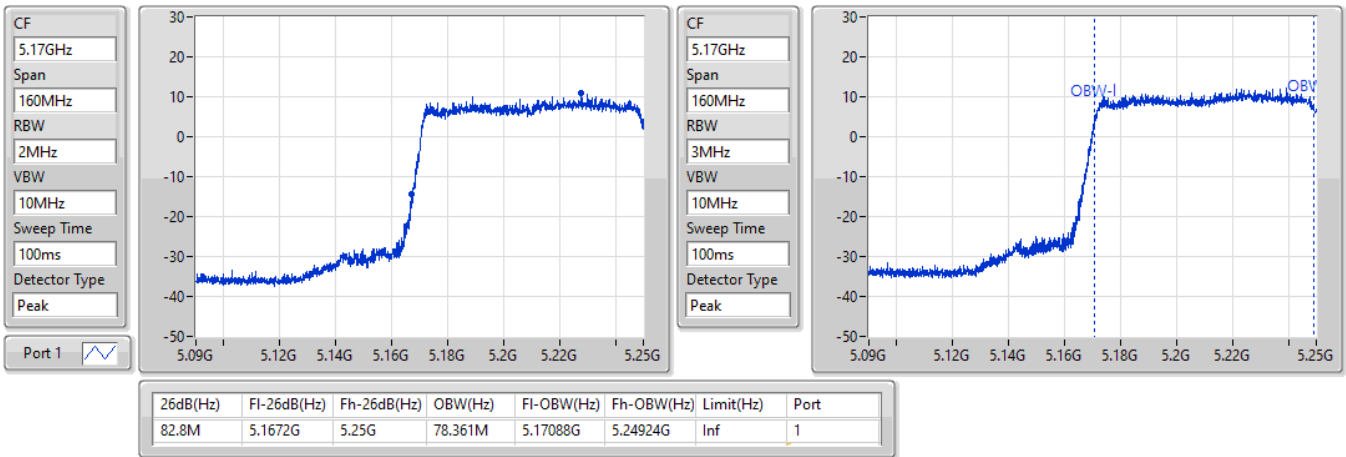
5690MHz Straddle 5.725-5.85GHz

27/07/2022

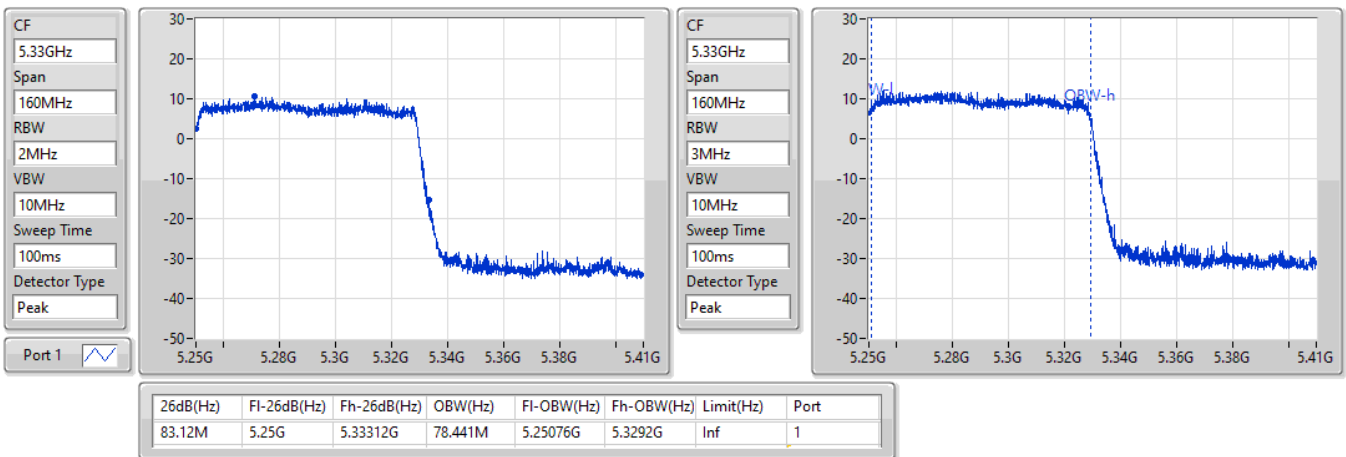


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
5250MHz Straddle 5.15-5.25GHz

27/07/2022


802.11ax HEW160_Nss1,(MCS0)_1TX
EBW
5250MHz Straddle 5.25-5.35GHz

27/07/2022

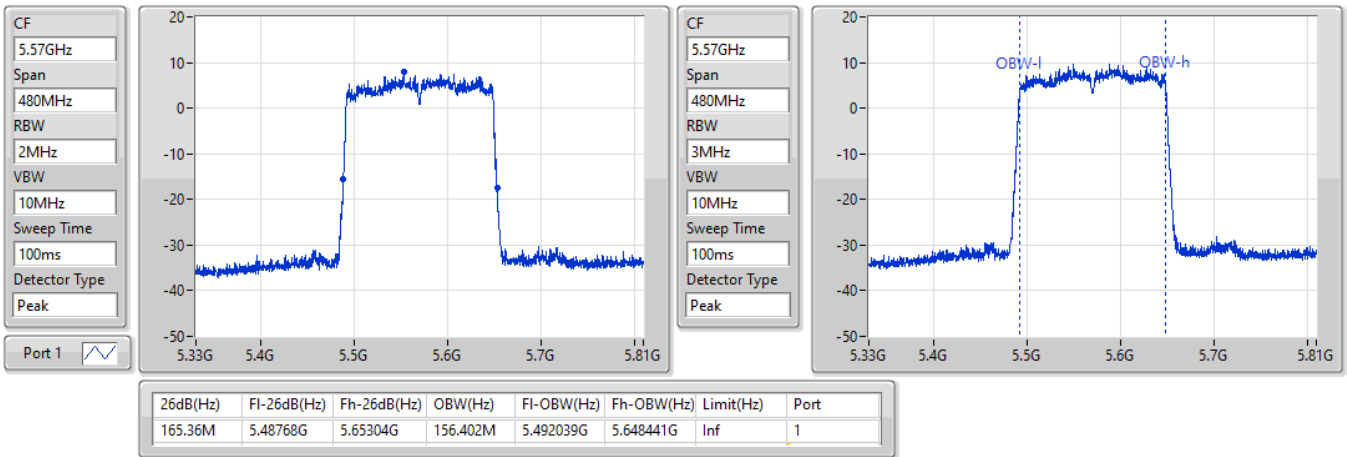


802.11ax HEW160_Nss1,(MCS0)_1TX

EBW

5570MHz

27/07/2022



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	27.39M	17.451M	17M5D1D	23.1M	17.121M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	30.93M	17.541M	17M5D1D	15.72M	13.598M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.18M	4.278M	4M28D1D	3.18M	4.258M

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

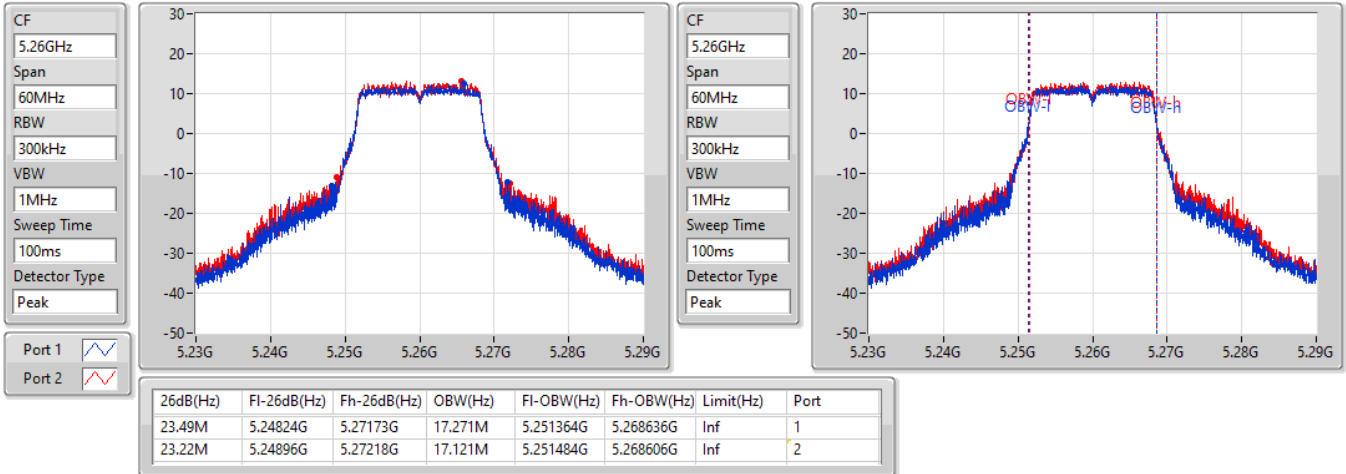
Result

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	-	-	-	-	-	-
5260MHz	Pass	Inf	23.49M	17.271M	23.22M	17.121M
5300MHz	Pass	Inf	23.1M	17.271M	27.39M	17.211M
5320MHz	Pass	Inf	25.83M	17.451M	24.03M	17.301M
5500MHz	Pass	Inf	23.52M	17.541M	24.72M	17.331M
5580MHz	Pass	Inf	26.16M	17.391M	30.93M	17.241M
5700MHz	Pass	Inf	21.6M	17.151M	21.54M	16.912M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.72M	13.673M	15.885M	13.598M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	4.278M	3.18M	4.258M

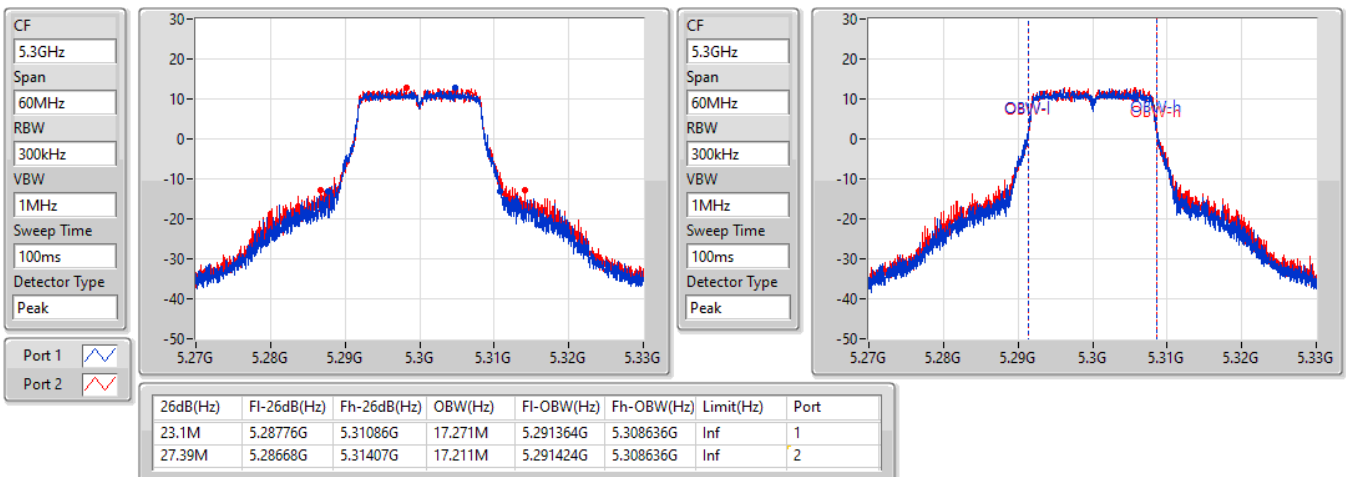
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

27/07/2022

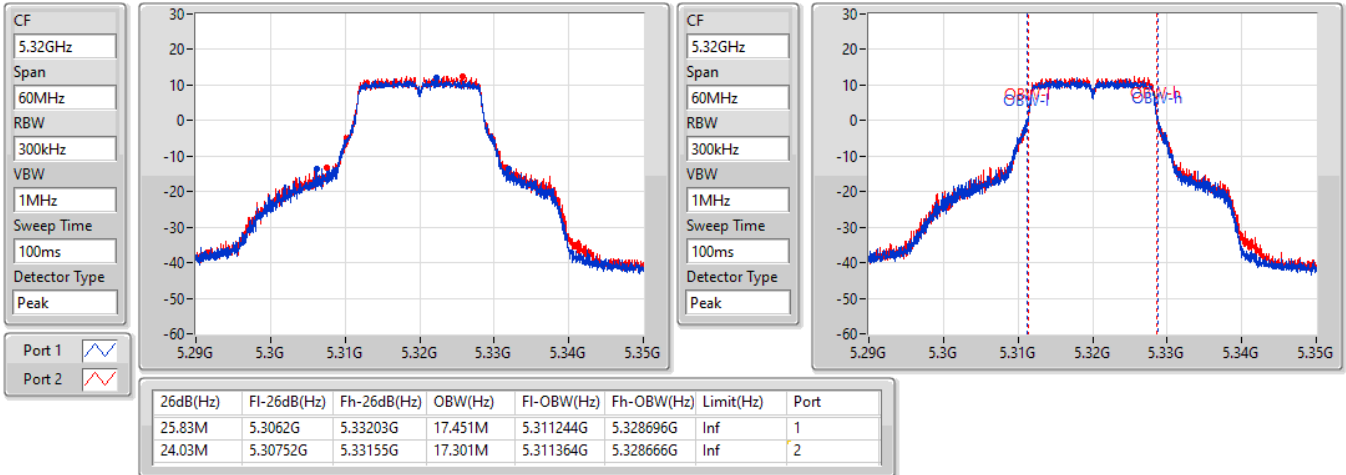

802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

27/07/2022

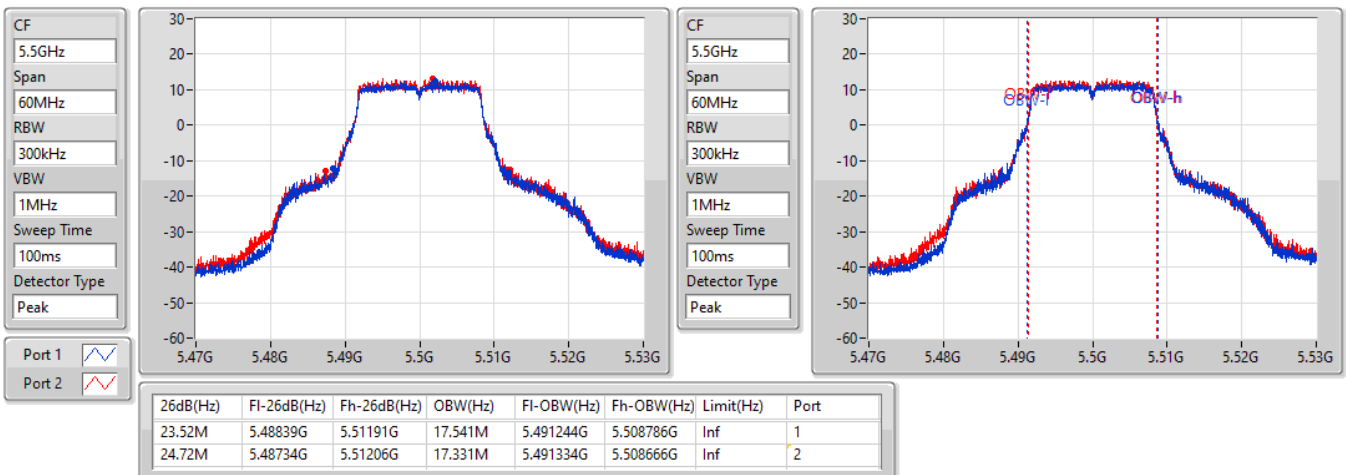


802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

27/07/2022

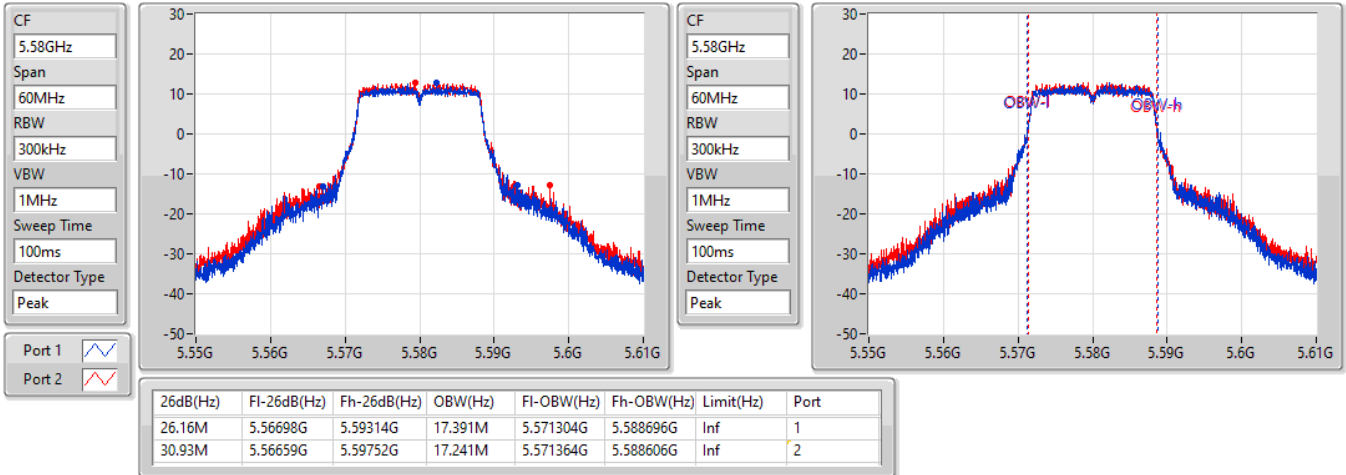

802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

27/07/2022

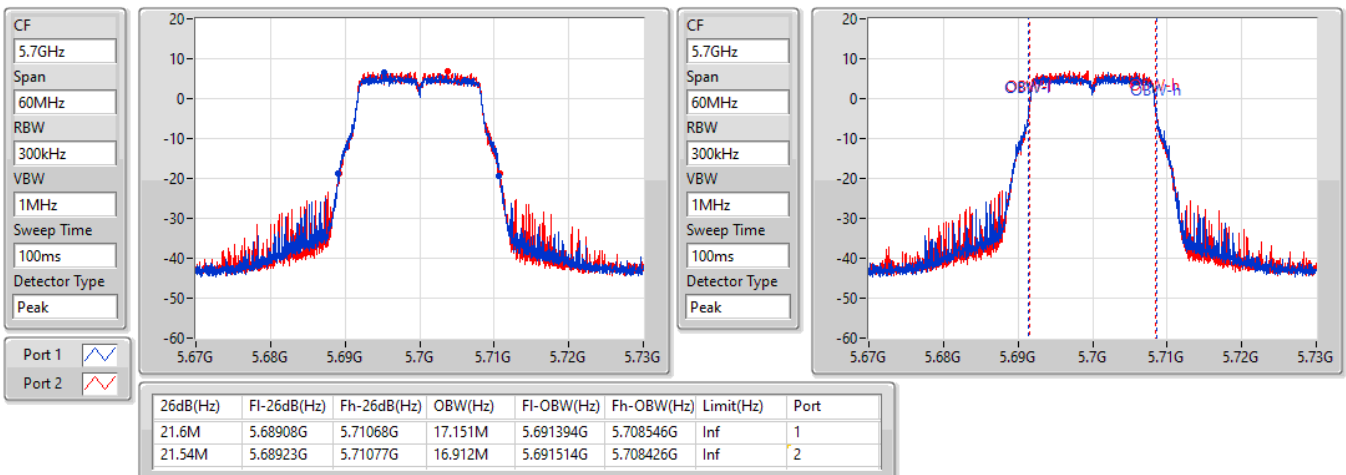


802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

27/07/2022

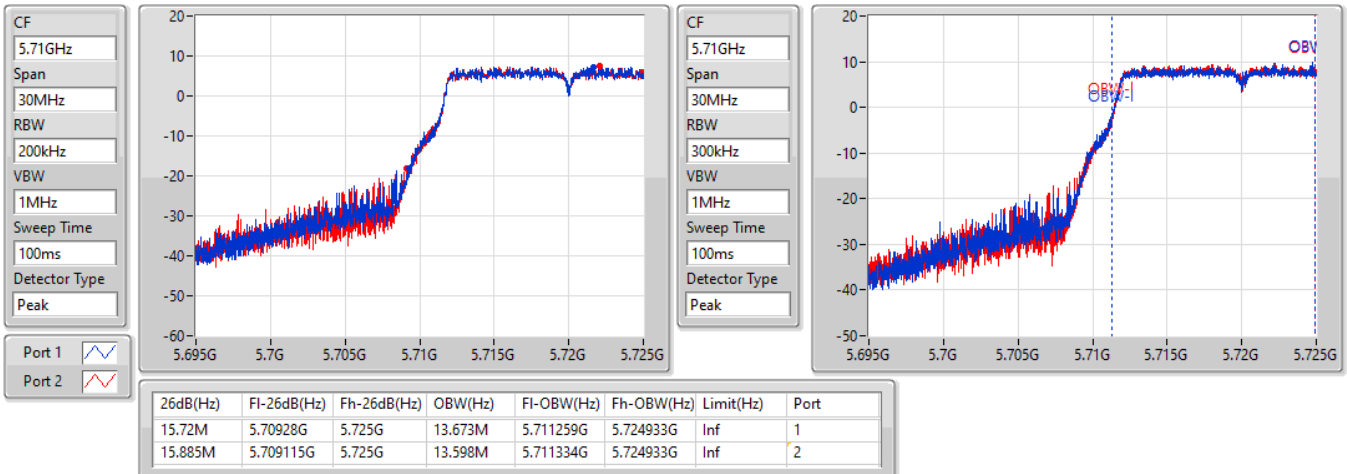

802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

27/07/2022

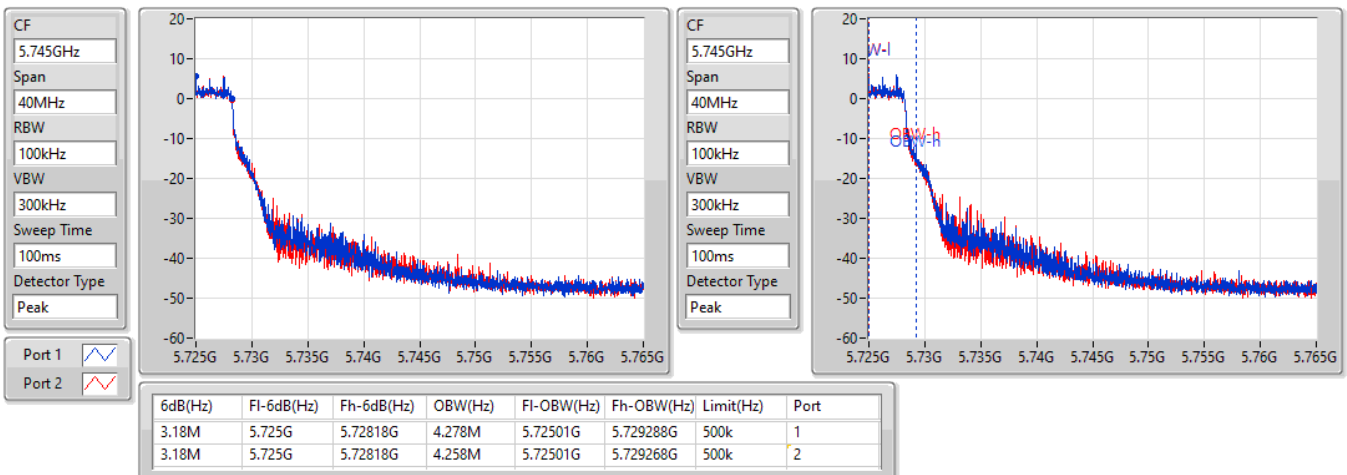


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

30/08/2022


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

30/08/2022

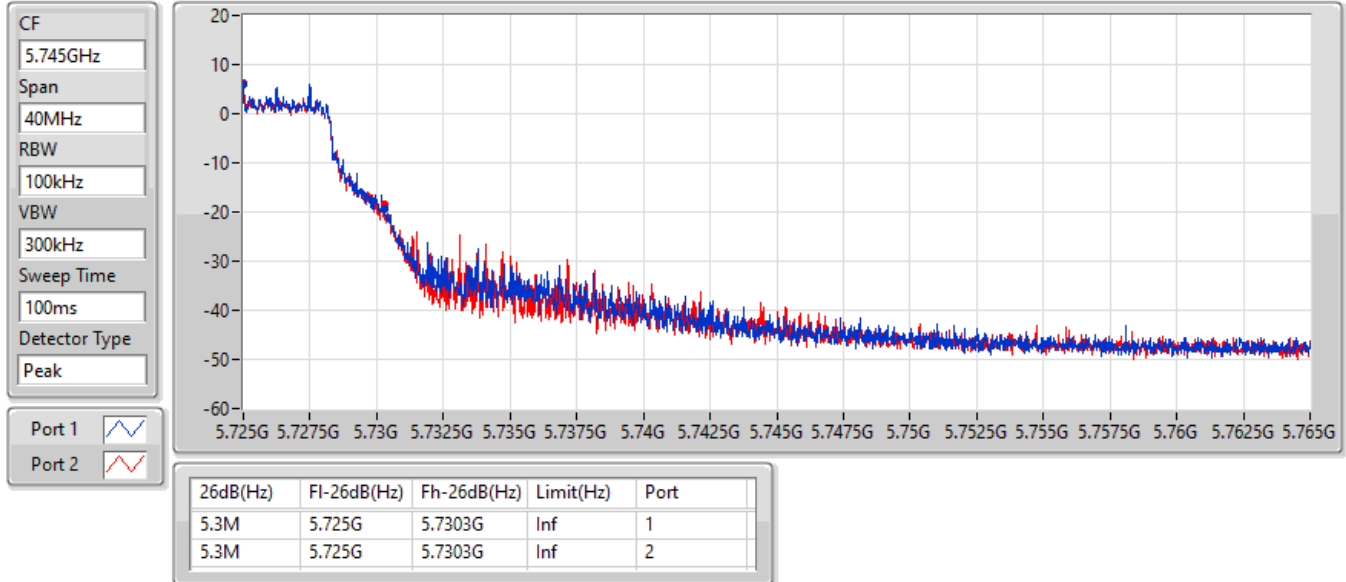


802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

30/08/2022



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss2,(MCS0)_2TX	82.56M	78.441M	78M4D1D	82.16M	78.361M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	30.93M	19.28M	19M3D1D	21.72M	19.16M
802.11ax HEW40_Nss2,(MCS0)_2TX	55.14M	38.321M	38M3D1D	41.22M	38.141M
802.11ax HEW80_Nss2,(MCS0)_2TX	88.68M	78.081M	78M1D1D	82.8M	77.841M
802.11ax HEW160_Nss2,(MCS0)_2TX	83.2M	78.441M	78M4D1D	82.72M	78.361M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	32.04M	19.25M	19M3D1D	15.93M	14.603M
802.11ax HEW40_Nss2,(MCS0)_2TX	58.02M	38.261M	38M3D1D	35.315M	33.898M
802.11ax HEW80_Nss2,(MCS0)_2TX	96.975M	78.081M	78M1D1D	81.96M	74.138M
802.11ax HEW160_Nss2,(MCS0)_2TX	164.88M	156.882M	157MD1D	163.92M	156.882M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	4.48M	4.798M	4M80D1D	4.46M	4.778M
802.11ax HEW40_Nss2,(MCS0)_2TX	3.96M	4.278M	4M28D1D	3.88M	4.218M
802.11ax HEW80_Nss2,(MCS0)_2TX	3.94M	30.245M	30M2D1D	3.84M	30.005M

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

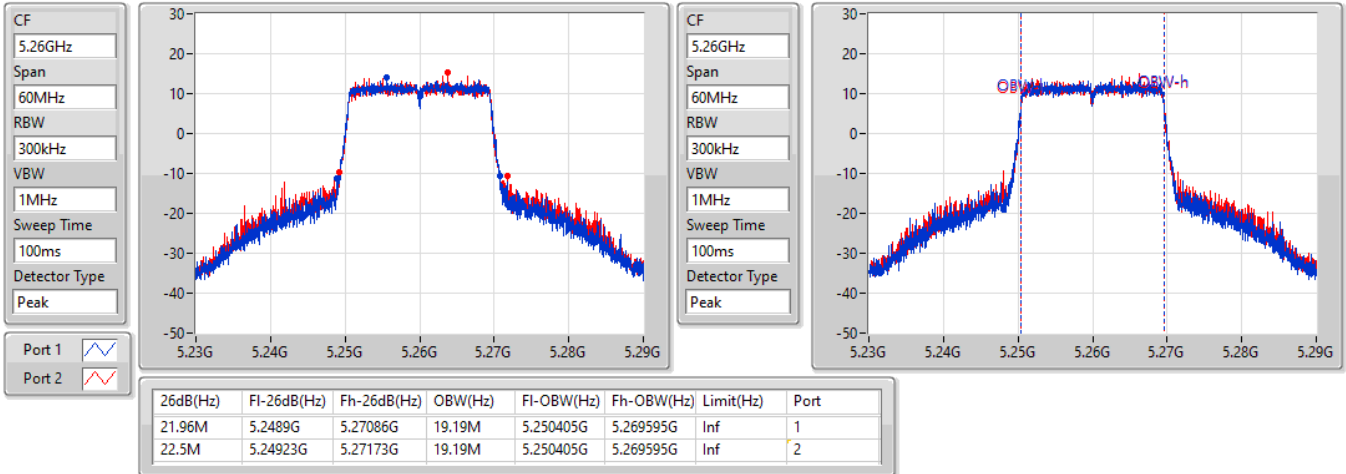
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	21.96M	19.19M	22.5M	19.19M
5300MHz	Pass	Inf	21.72M	19.19M	30.93M	19.16M
5320MHz	Pass	Inf	22.17M	19.28M	24.87M	19.25M
5500MHz	Pass	Inf	23.07M	19.25M	26.37M	19.25M
5580MHz	Pass	Inf	22.86M	19.16M	32.04M	19.19M
5700MHz	Pass	Inf	21.72M	19.1M	21.54M	19.1M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.395M	14.603M	15.93M	14.618M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.798M	4.46M	4.778M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	41.22M	38.141M	55.14M	38.321M
5310MHz	Pass	Inf	45.78M	38.261M	44.58M	38.201M
5510MHz	Pass	Inf	58.02M	38.261M	42.9M	38.201M
5550MHz	Pass	Inf	40.62M	38.201M	41.1M	38.141M
5670MHz	Pass	Inf	40.44M	37.961M	40.2M	38.081M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.315M	33.898M	37.66M	33.933M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	4.218M	3.88M	4.278M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	88.68M	77.841M	82.8M	78.081M
5530MHz	Pass	Inf	82.8M	78.081M	82.8M	77.961M
5610MHz	Pass	Inf	81.96M	77.841M	82.2M	77.841M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	96.975M	74.138M	96.9M	74.363M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.94M	30.245M	3.84M	30.005M
802.11ax HEW160_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.56M	78.441M	82.16M	78.361M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.72M	78.361M	83.2M	78.441M
5570MHz	Pass	Inf	164.88M	156.882M	163.92M	156.882M

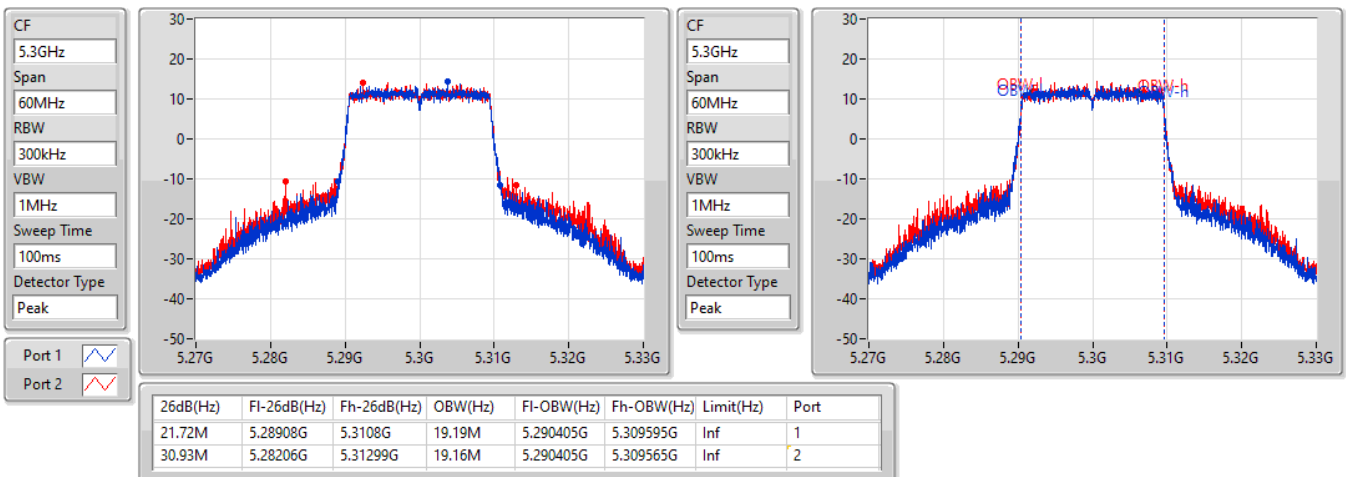
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5260MHz

26/07/2022

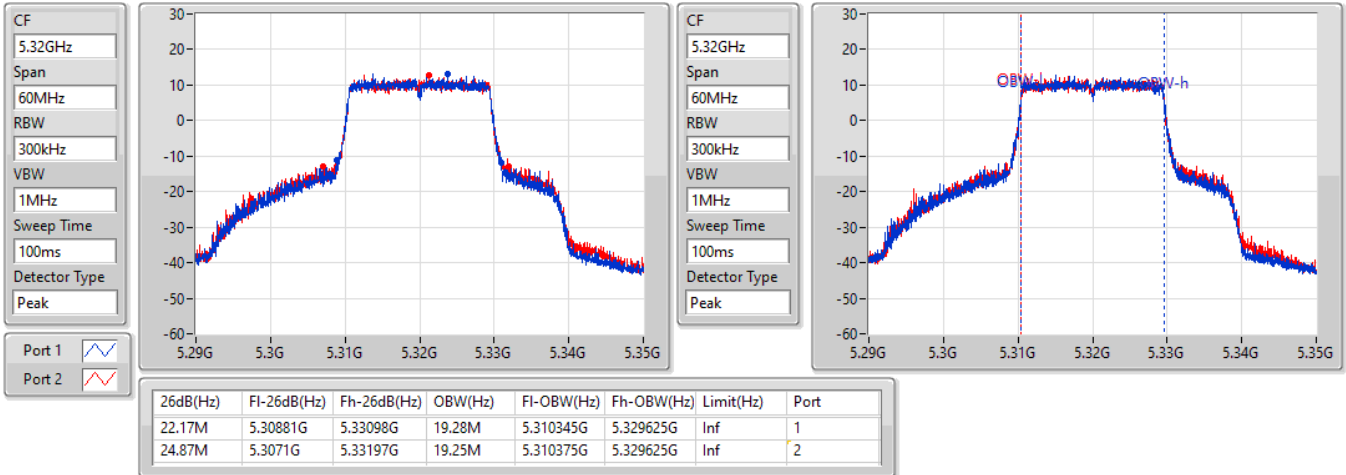

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5300MHz

26/07/2022

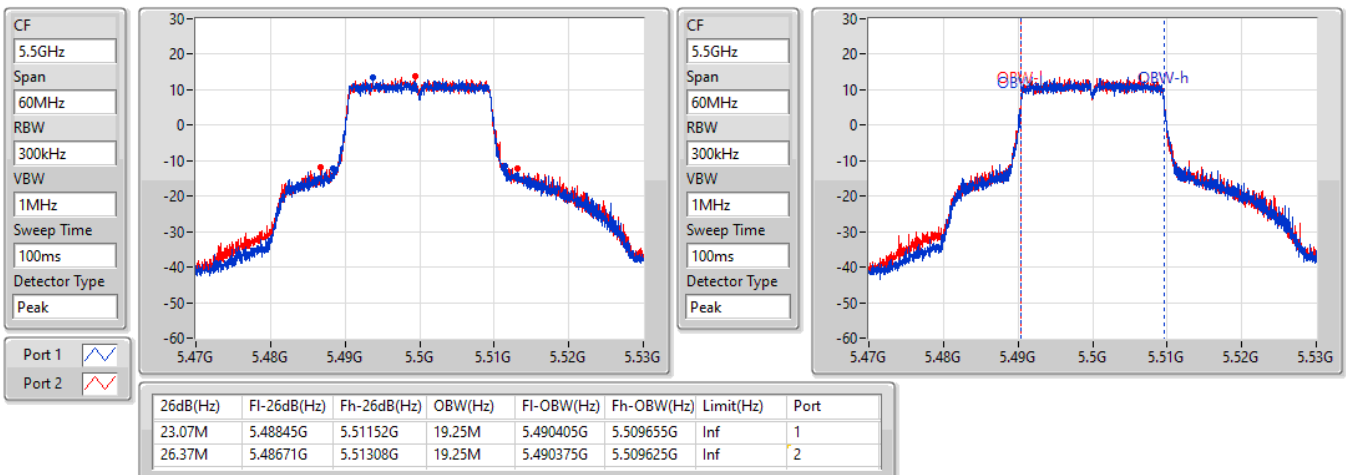


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5320MHz

26/07/2022

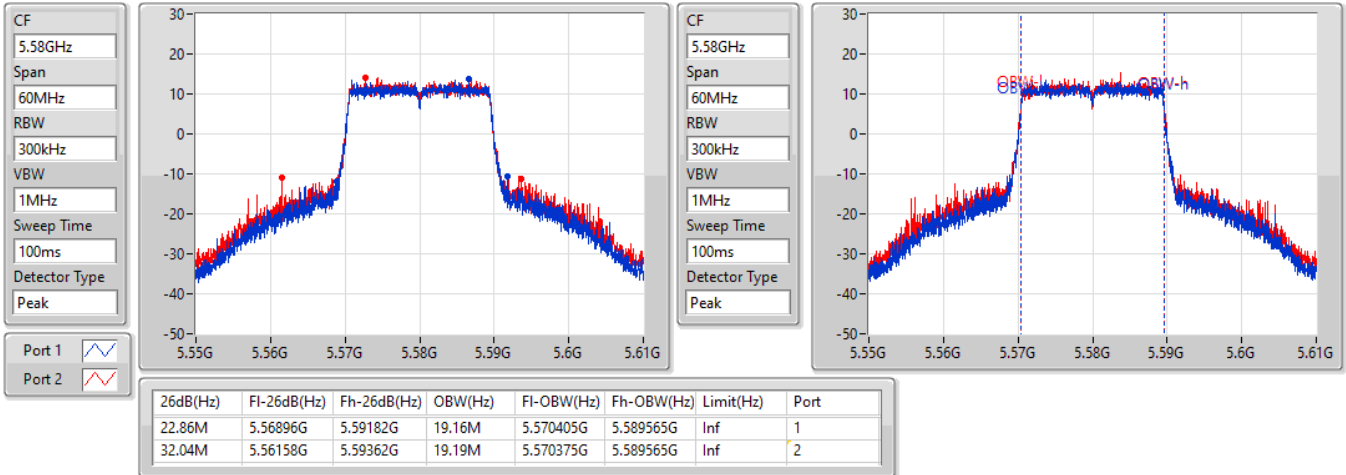

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5500MHz

26/07/2022

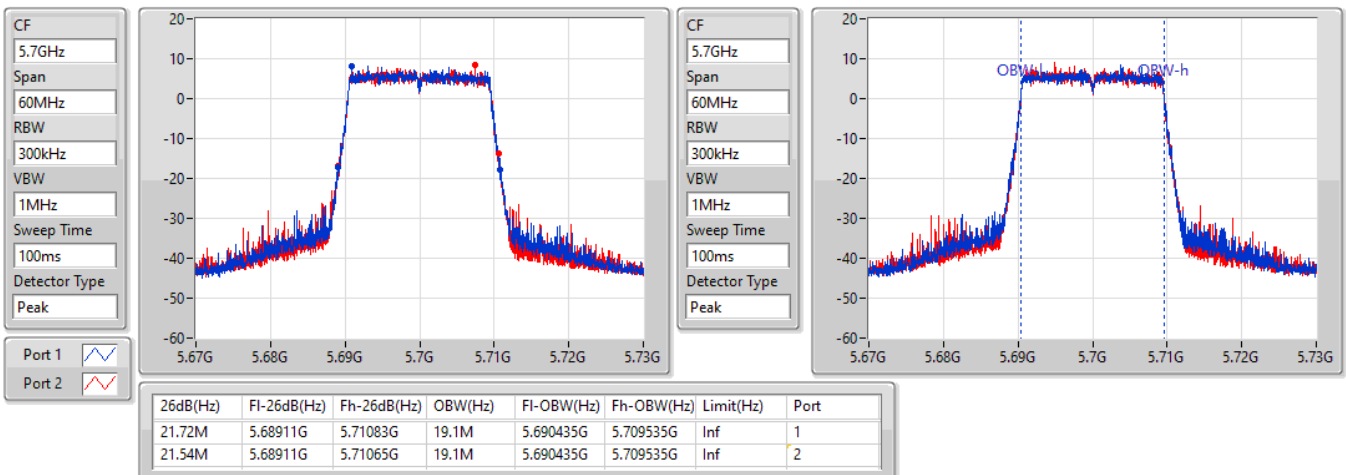


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5580MHz

26/07/2022

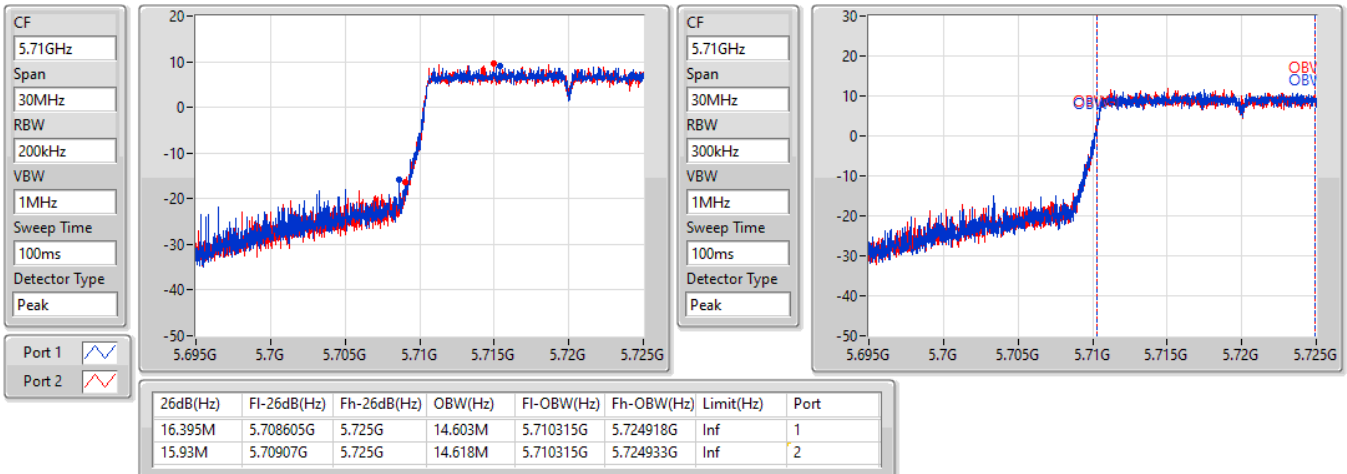

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5700MHz

26/07/2022

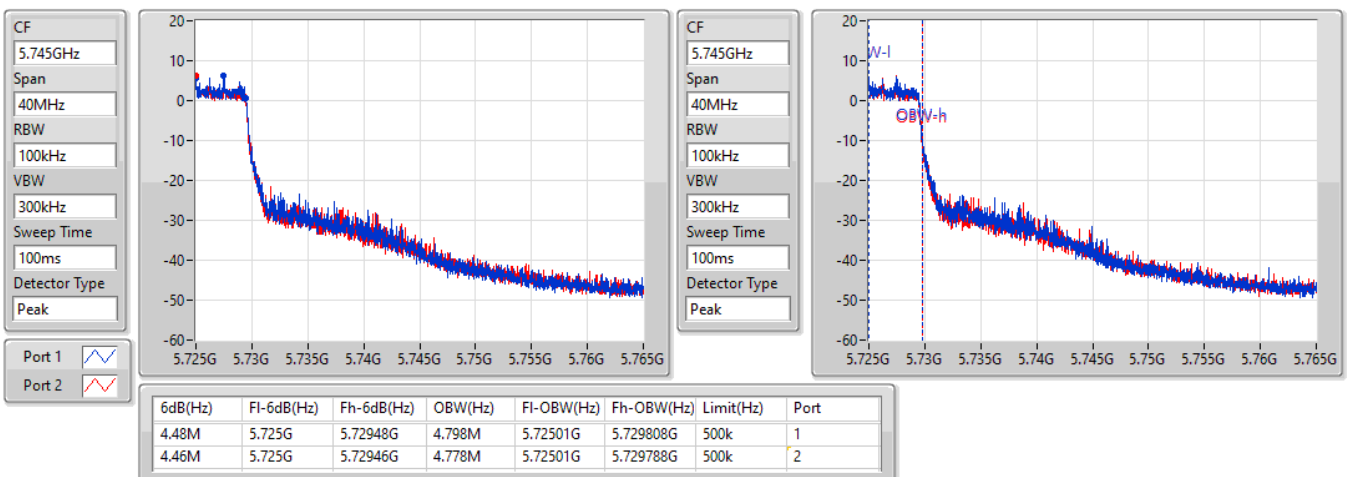


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

27/07/2022


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/07/2022

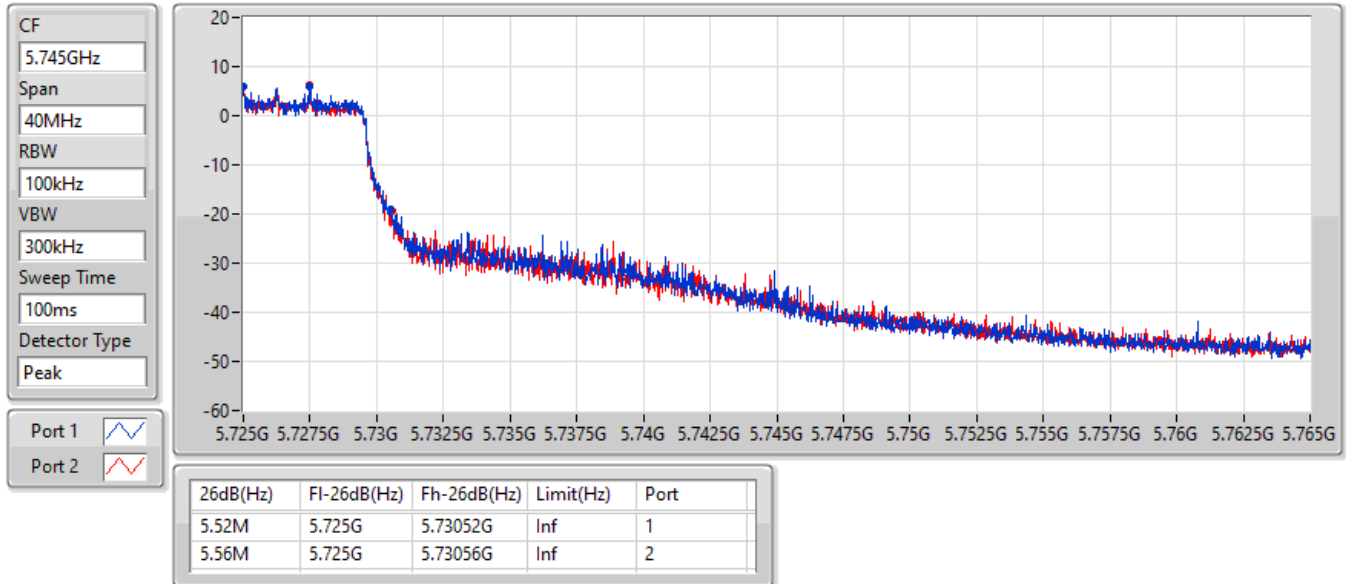


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

27/07/2022

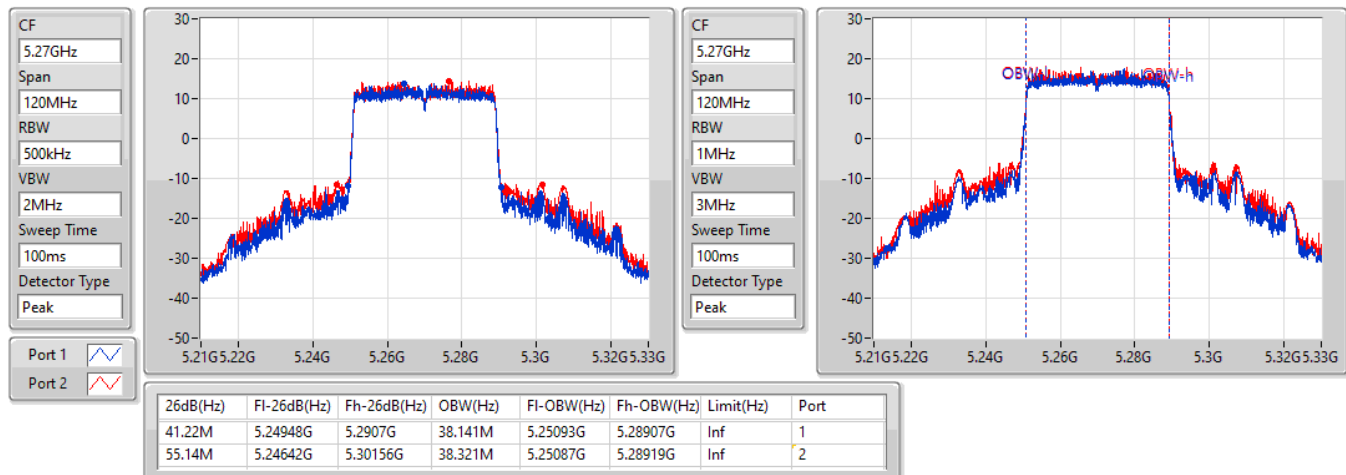


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

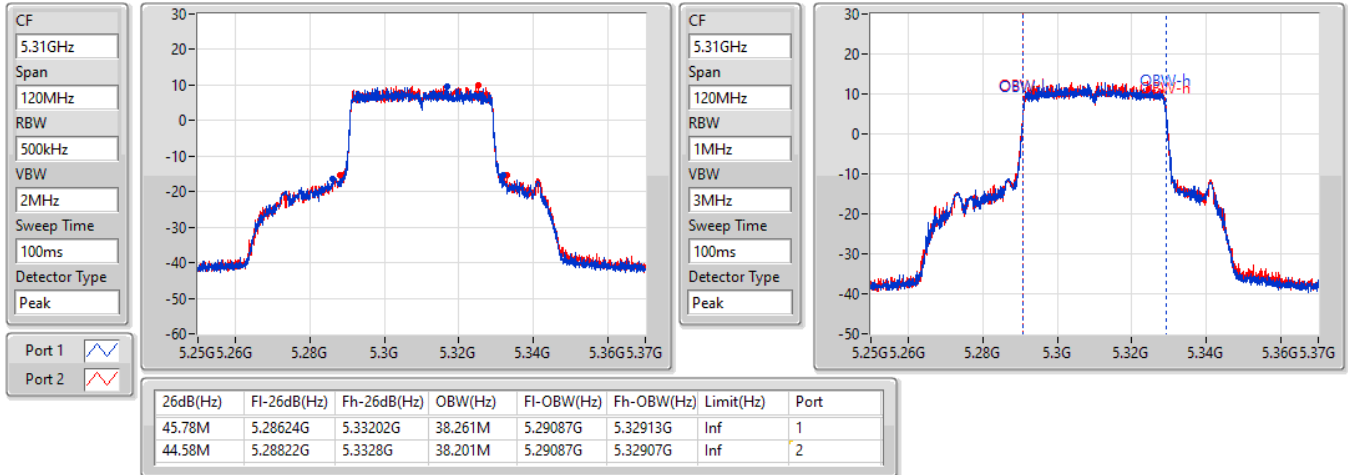
5270MHz

26/07/2022

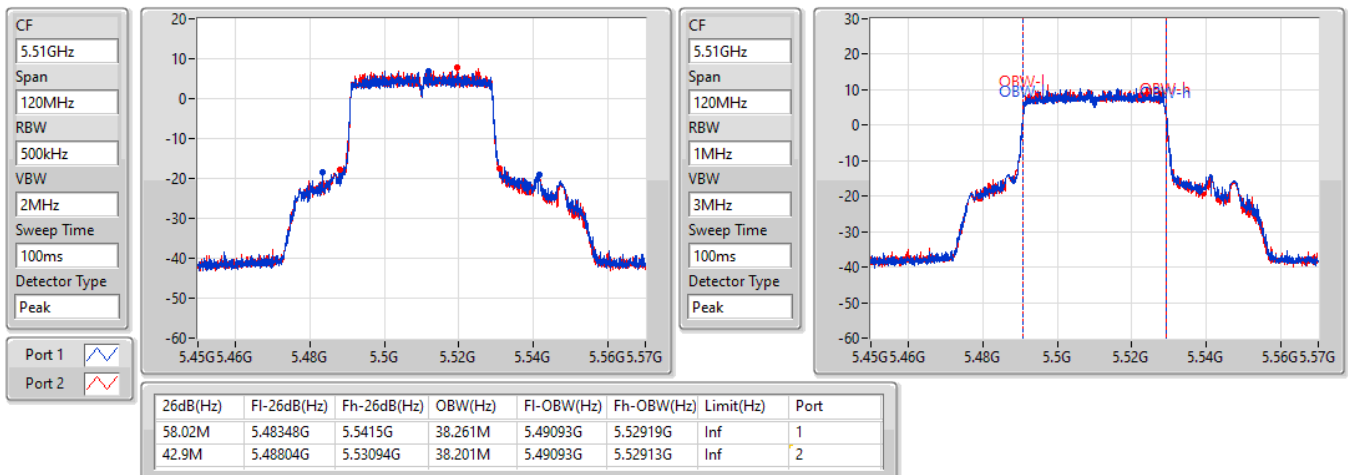


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5310MHz

26/07/2022

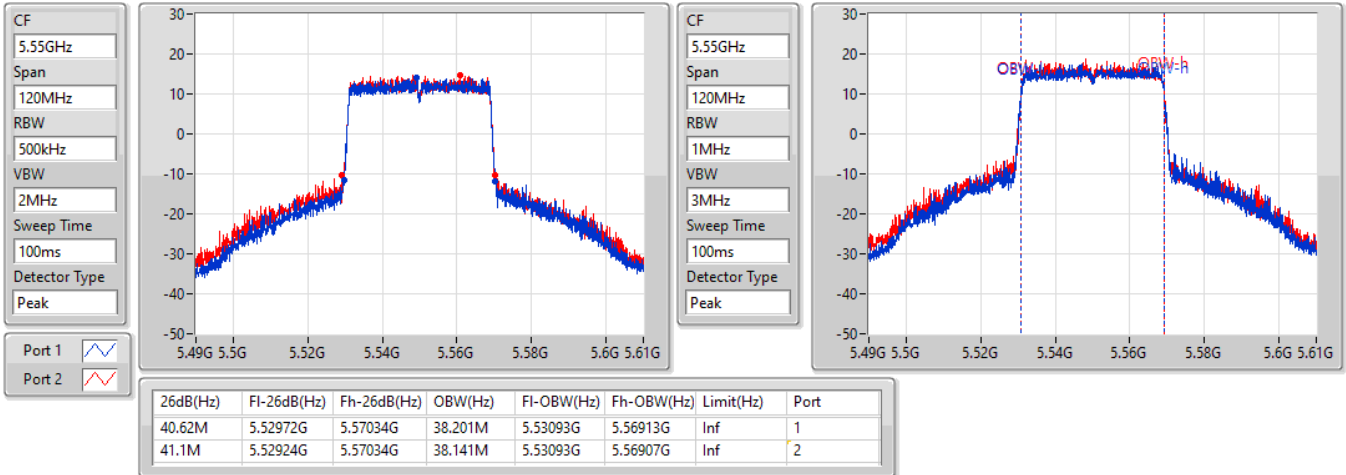

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5510MHz

26/07/2022

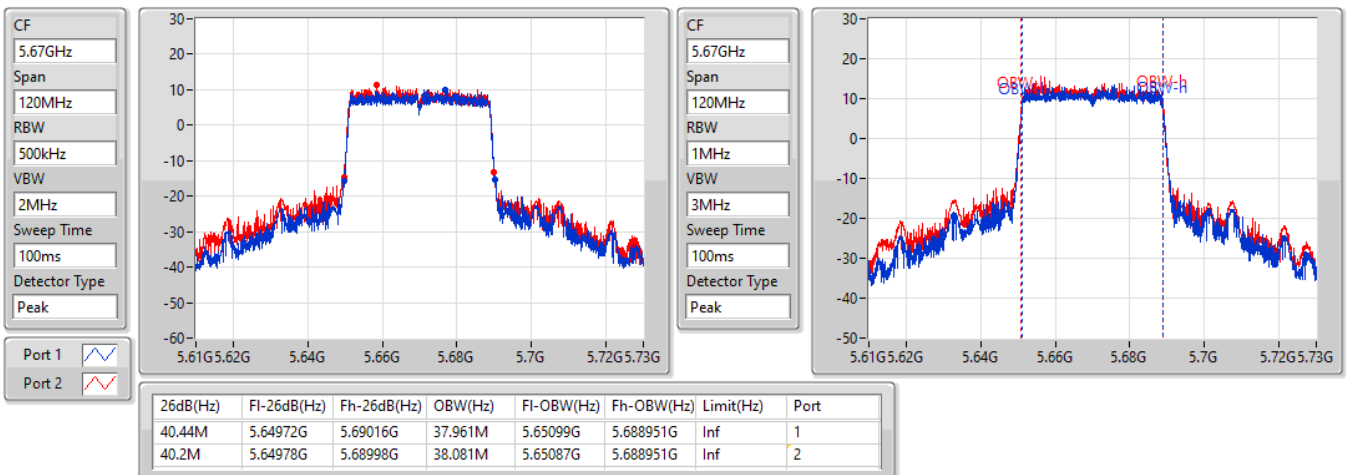


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5550MHz

30/08/2022

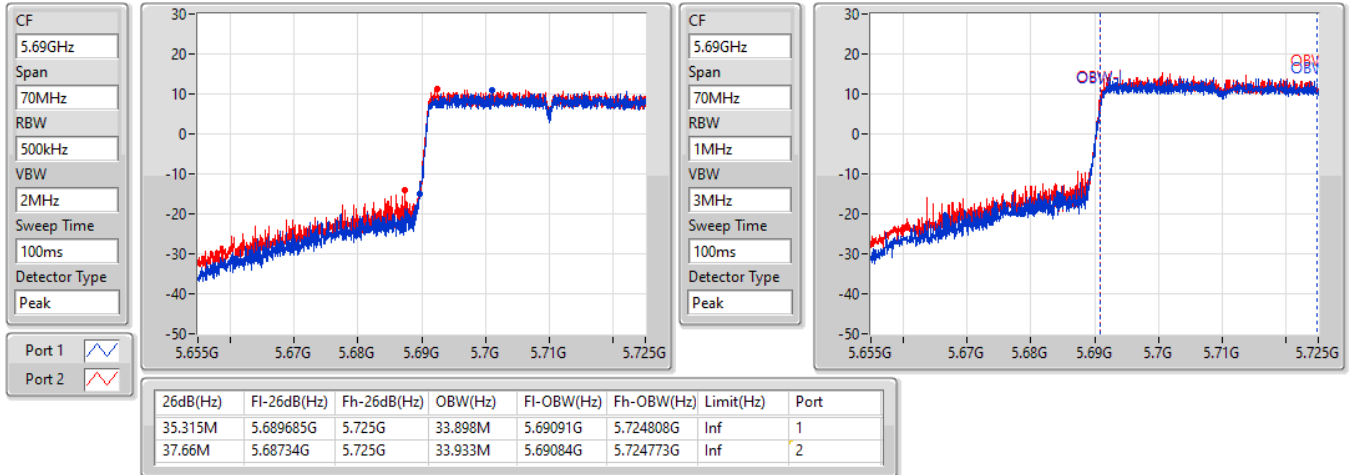

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5670MHz

26/07/2022

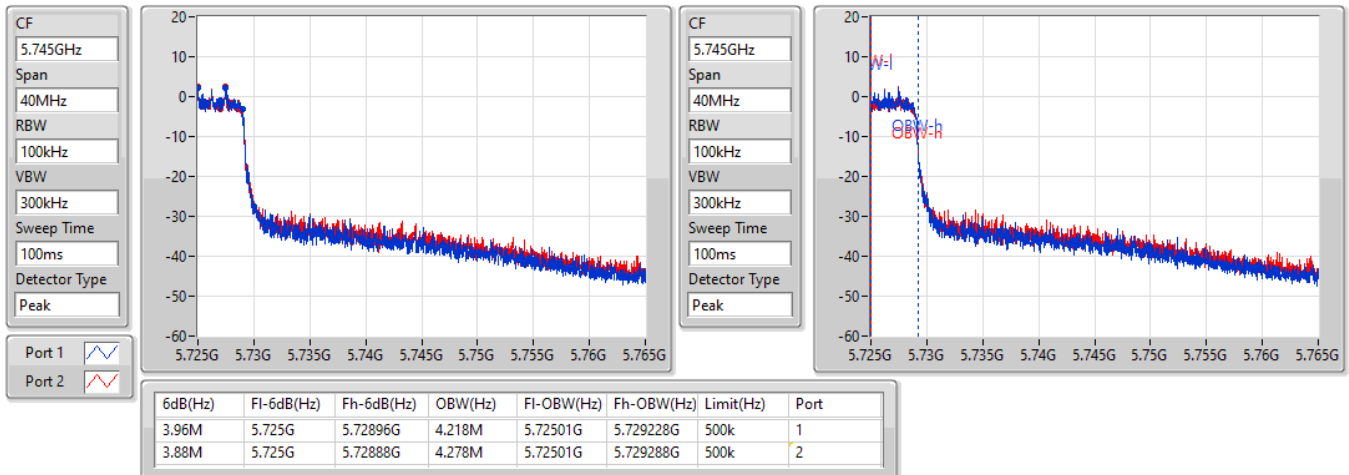


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

27/07/2022


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

27/07/2022

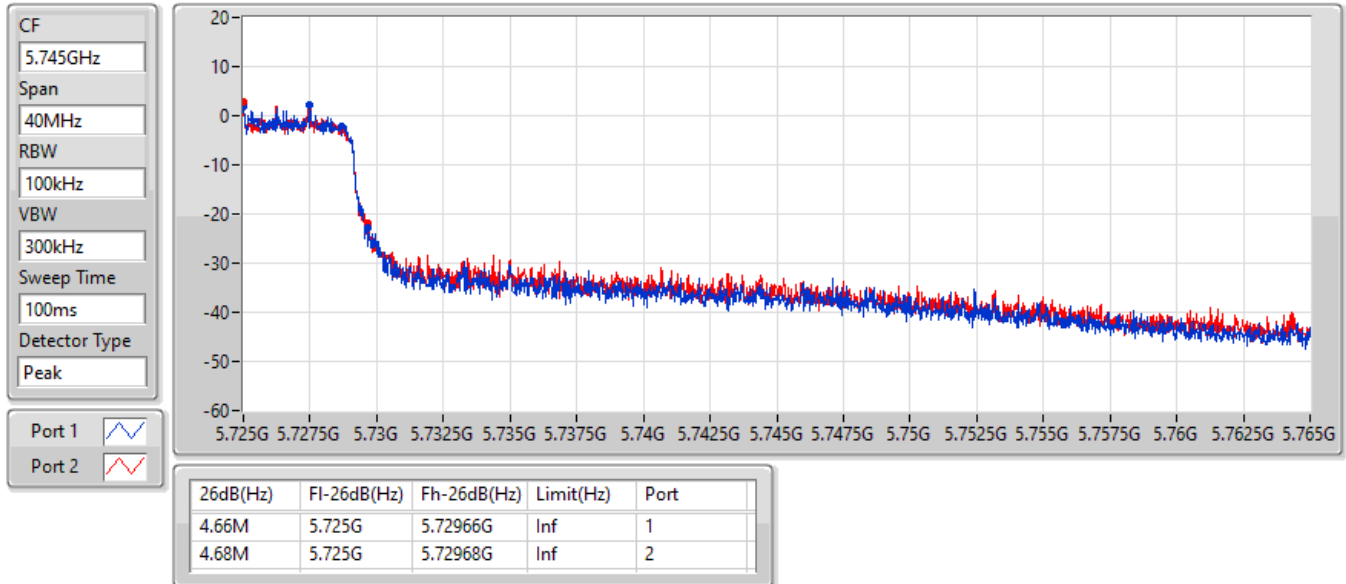


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

27/07/2022

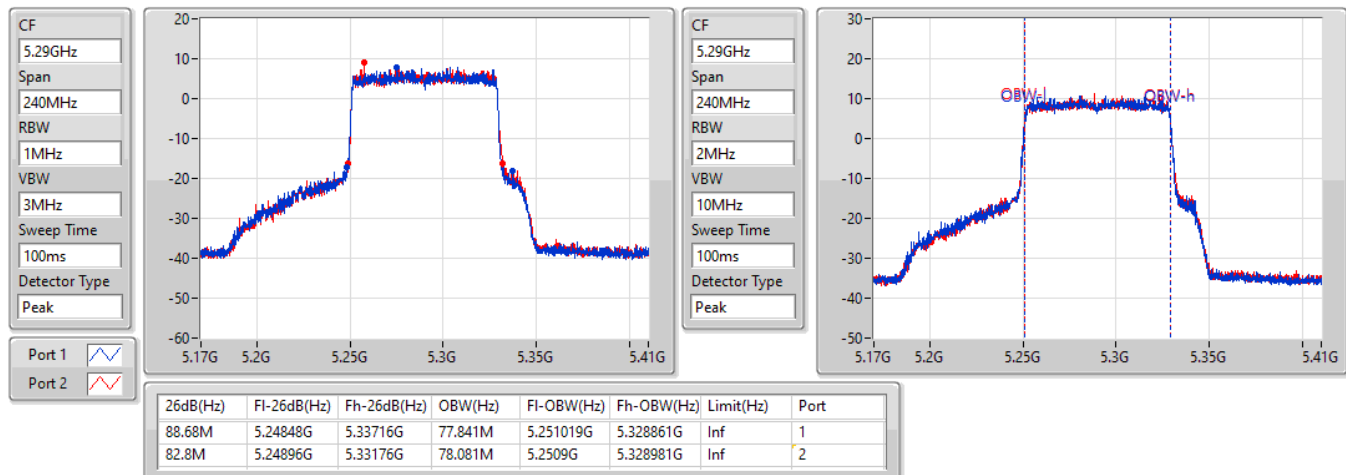


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

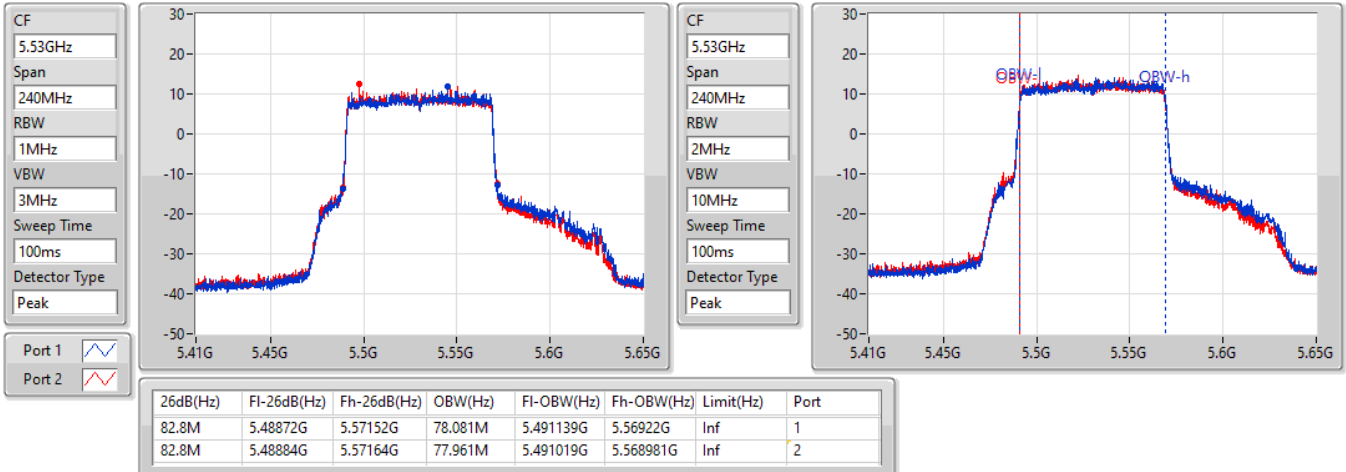
5290MHz

26/07/2022

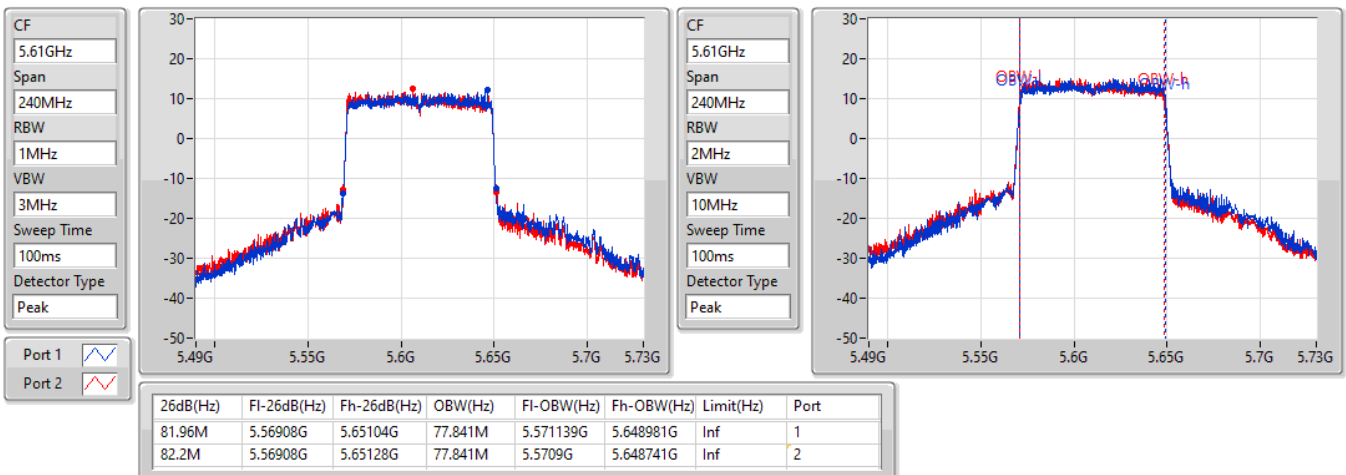


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5530MHz

26/07/2022

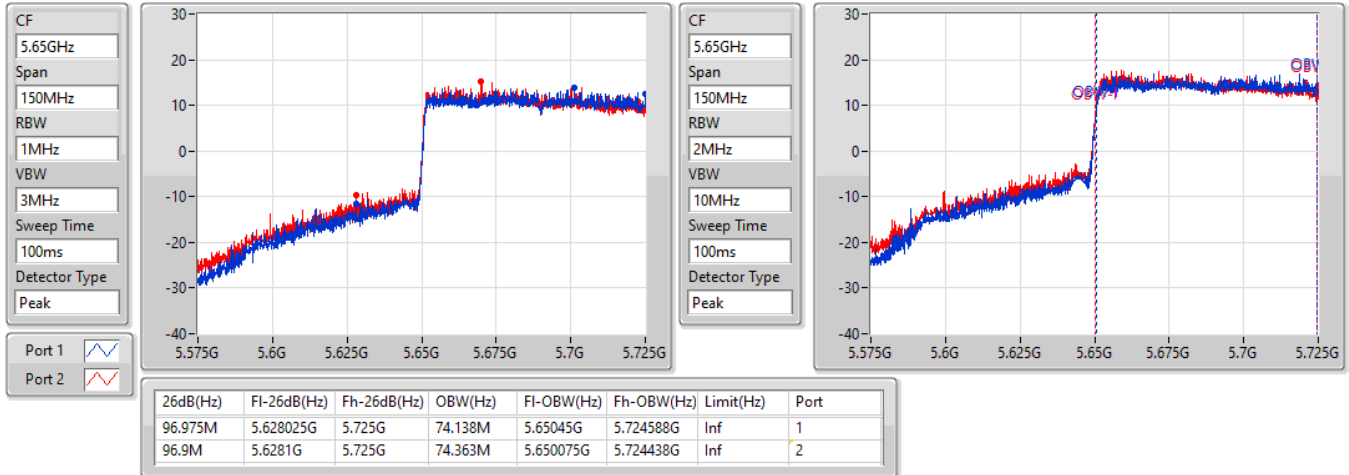

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5610MHz

26/07/2022

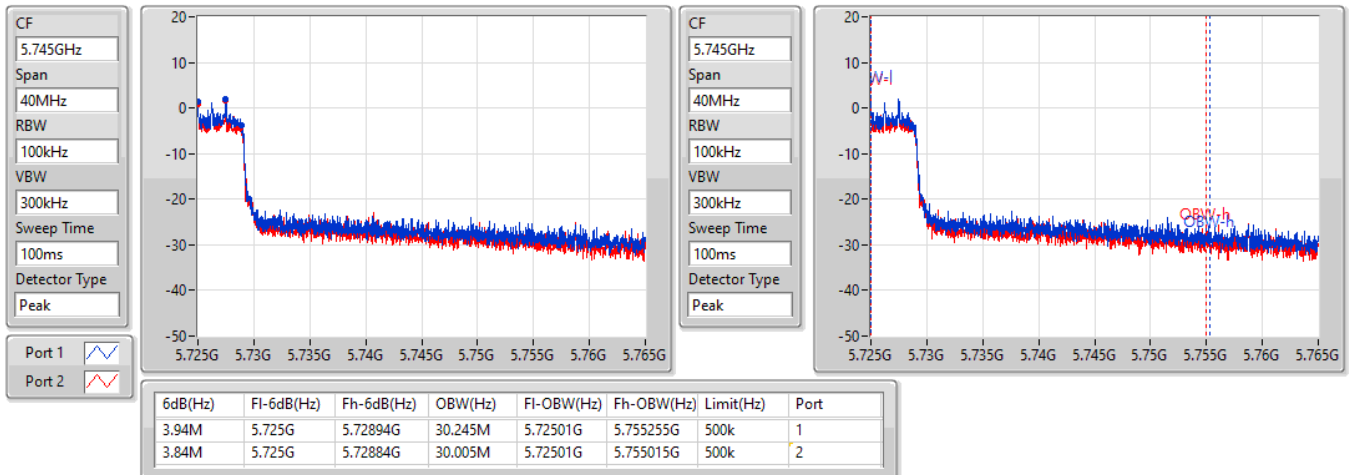


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

27/07/2022

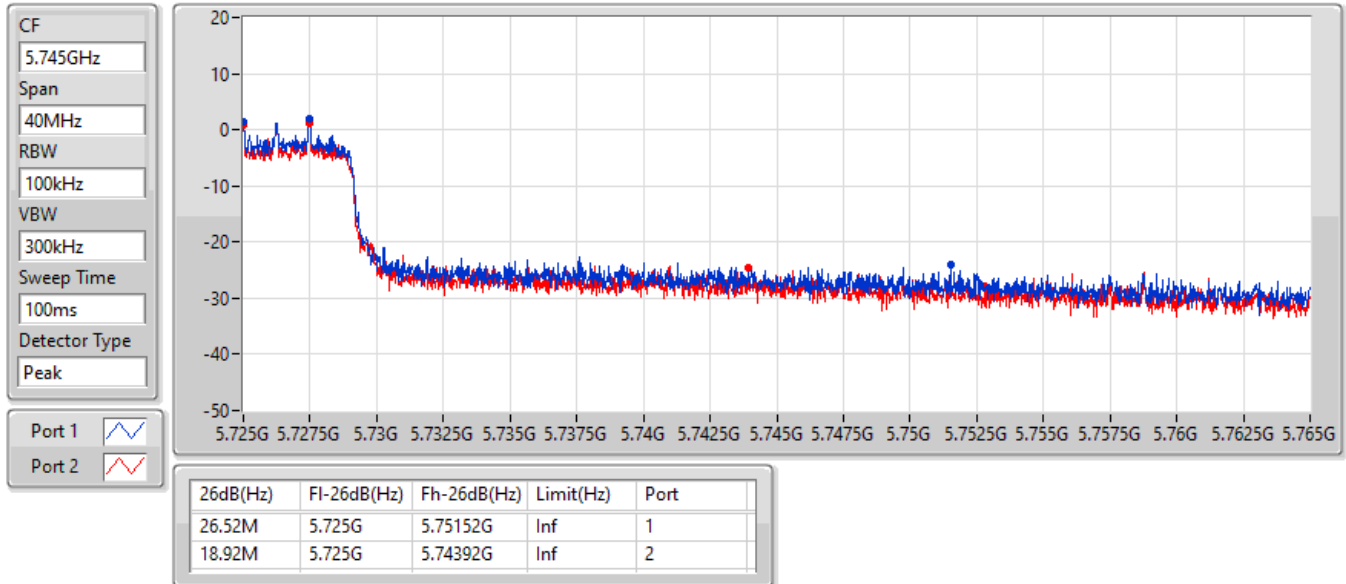

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

27/07/2022

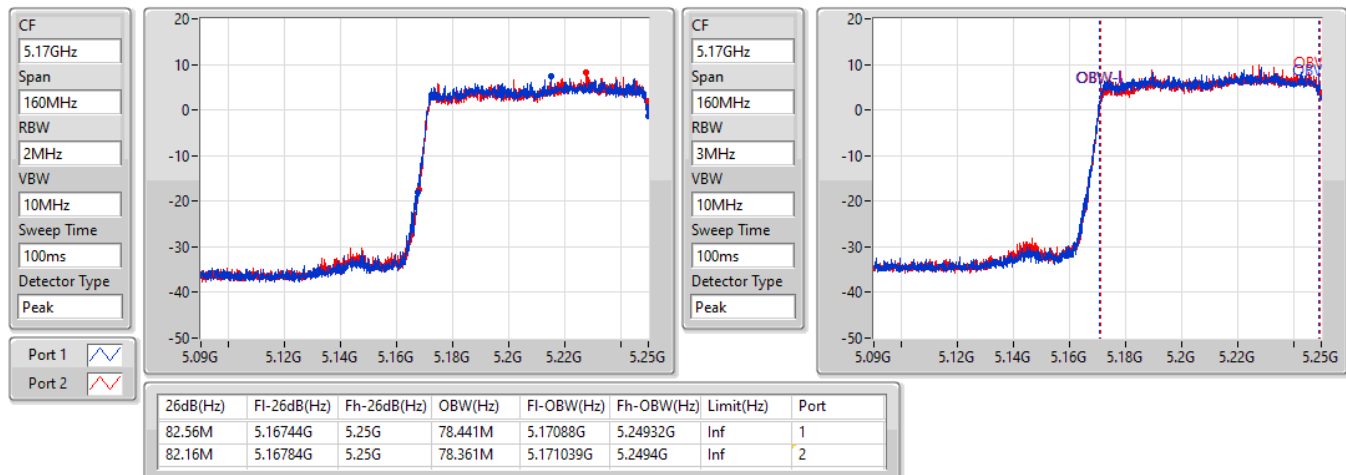


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

27/07/2022


802.11ax HEW160_Nss2,(MCS0)_2TX
EBW
5250MHz Straddle 5.15-5.25GHz

26/07/2022

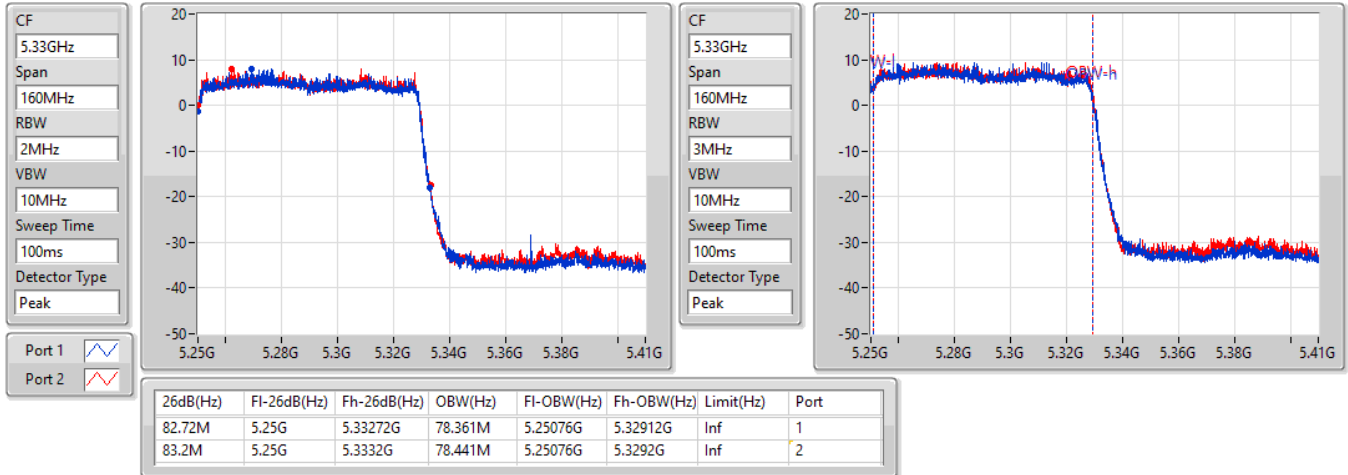


802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

5250MHz Straddle 5.25-5.35GHz

26/07/2022

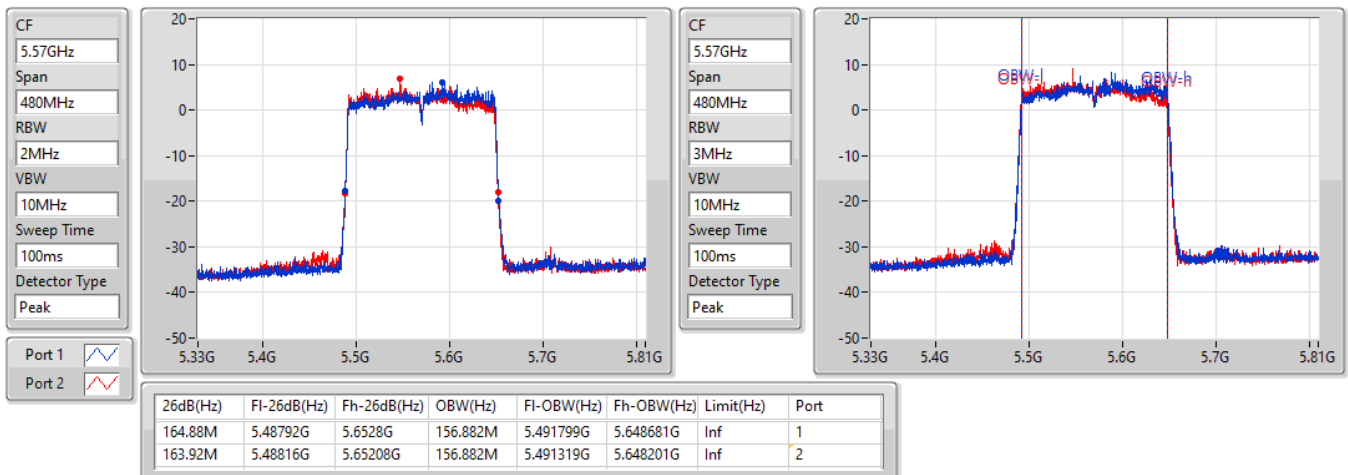


802.11ax HEW160_Nss2,(MCS0)_2TX

EBW

5570MHz

26/07/2022



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_4TX	82.8M	78.441M	78M4D1D	82.32M	78.281M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	27.27M	17.421M	17M4D1D	21.48M	16.942M
802.11ax HEW20_Nss1,(MCS0)_4TX	26.79M	19.28M	19M3D1D	21.45M	19.1M
802.11ax HEW40_Nss1,(MCS0)_4TX	47.52M	38.261M	38M3D1D	40.38M	37.901M
802.11ax HEW80_Nss1,(MCS0)_4TX	88.68M	77.961M	78M0D1D	83.88M	77.841M
802.11ax HEW160_Nss1,(MCS0)_4TX	83.04M	78.441M	78M4D1D	82.4M	78.281M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	26.94M	17.451M	17M5D1D	15.765M	13.553M
802.11ax HEW20_Nss1,(MCS0)_4TX	27.81M	19.25M	19M3D1D	15.795M	14.573M
802.11ax HEW40_Nss1,(MCS0)_4TX	46.92M	38.261M	38M3D1D	35.35M	33.898M
802.11ax HEW80_Nss1,(MCS0)_4TX	91.68M	78.081M	78M1D1D	76.125M	73.613M
802.11ax HEW160_Nss1,(MCS0)_4TX	165.12M	156.642M	157MD1D	164.88M	156.402M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.18M	4.298M	4M30D1D	3.16M	4.258M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.48M	4.738M	4M74D1D	4.44M	4.698M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.96M	4.398M	4M40D1D	3.92M	4.238M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.98M	7.736M	7M74D1D	3.8M	4.498M

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

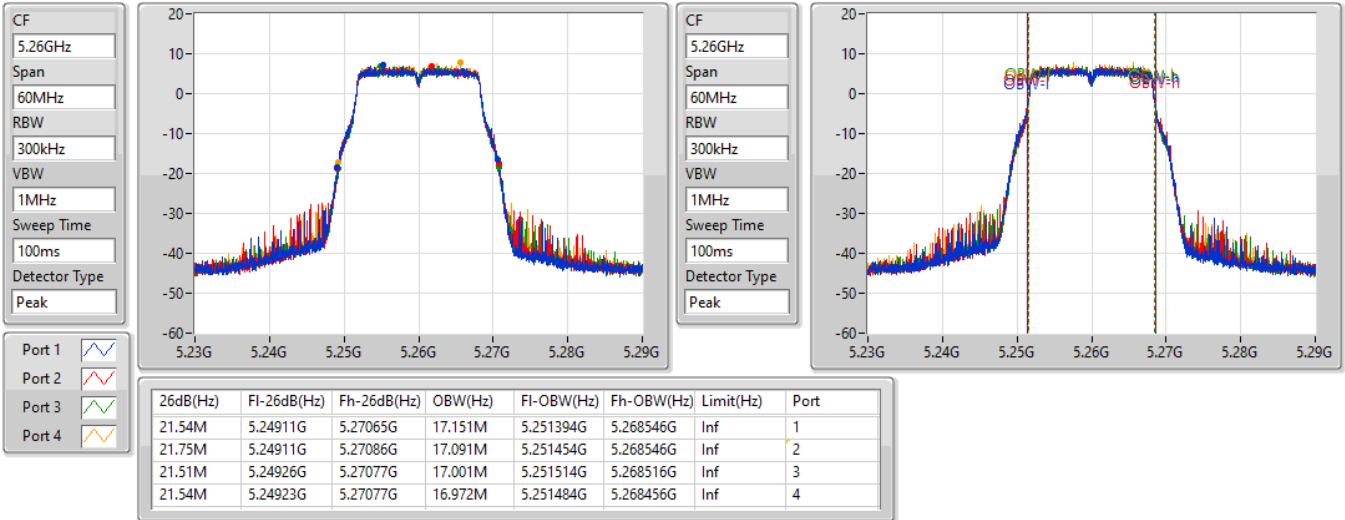
Result

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	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.54M	17.151M	21.75M	17.091M	21.51M	17.001M	21.54M	16.972M
5300MHz	Pass	Inf	21.54M	17.091M	21.54M	17.091M	21.48M	17.001M	21.51M	16.942M
5320MHz	Pass	Inf	25.53M	17.421M	24.75M	17.421M	24.63M	17.361M	27.27M	17.331M
5500MHz	Pass	Inf	26.22M	17.451M	24.27M	17.331M	23.4M	17.301M	26.94M	17.421M
5580MHz	Pass	Inf	21.51M	17.151M	21.63M	17.091M	21.48M	16.972M	21.87M	16.972M
5700MHz	Pass	Inf	21.81M	17.121M	21.48M	17.121M	21.48M	16.972M	21.66M	17.001M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.825M	13.658M	15.9M	13.658M	15.765M	13.553M	15.9M	13.583M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	4.258M	3.16M	4.258M	3.16M	4.298M	3.18M	4.298M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.84M	19.16M	21.66M	19.1M	21.9M	19.1M	21.63M	19.1M
5300MHz	Pass	Inf	21.69M	19.1M	21.84M	19.1M	21.45M	19.16M	21.75M	19.1M
5320MHz	Pass	Inf	24.66M	19.25M	26.79M	19.22M	24.33M	19.28M	23.19M	19.28M
5500MHz	Pass	Inf	27.81M	19.25M	26.82M	19.22M	23.94M	19.25M	24.42M	19.25M
5580MHz	Pass	Inf	21.78M	19.16M	21.72M	19.13M	21.81M	19.16M	21.6M	19.13M
5700MHz	Pass	Inf	21.99M	19.16M	21.72M	19.13M	21.69M	19.16M	21.6M	19.13M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.9M	14.603M	15.81M	14.588M	15.96M	14.573M	15.795M	14.588M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.44M	4.718M	4.46M	4.698M	4.48M	4.738M	4.46M	4.718M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	41.1M	37.901M	40.62M	37.961M	40.56M	37.961M	40.38M	37.961M
5310MHz	Pass	Inf	46.92M	38.201M	46.92M	38.261M	46.56M	38.141M	47.52M	38.141M
5510MHz	Pass	Inf	46.8M	38.201M	46.92M	38.261M	46.92M	38.201M	45.9M	38.201M
5550MHz	Pass	Inf	40.68M	38.021M	40.32M	37.961M	40.5M	37.961M	40.62M	37.961M
5670MHz	Pass	Inf	40.8M	37.961M	40.38M	38.021M	40.8M	37.961M	40.5M	38.021M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.49M	33.933M	35.385M	33.933M	35.455M	33.898M	35.35M	33.933M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.94M	4.238M	3.92M	4.398M	3.96M	4.258M	3.94M	4.318M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	83.88M	77.841M	88.68M	77.841M	87.12M	77.961M	86.88M	77.841M
5530MHz	Pass	Inf	91.68M	78.081M	88.08M	77.841M	91.44M	78.081M	85.32M	78.081M
5610MHz	Pass	Inf	81.96M	77.841M	81.72M	77.721M	82.2M	77.841M	82.08M	77.721M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.2M	73.688M	76.875M	73.613M	76.125M	73.688M	76.125M	73.688M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	5.857M	3.88M	4.498M	3.86M	7.736M	3.8M	7.136M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.56M	78.441M	82.32M	78.281M	82.8M	78.361M	82.48M	78.361M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.8M	78.281M	83.04M	78.441M	82.72M	78.361M	82.4M	78.281M
5570MHz	Pass	Inf	164.88M	156.402M	164.88M	156.402M	165.12M	156.642M	164.88M	156.642M

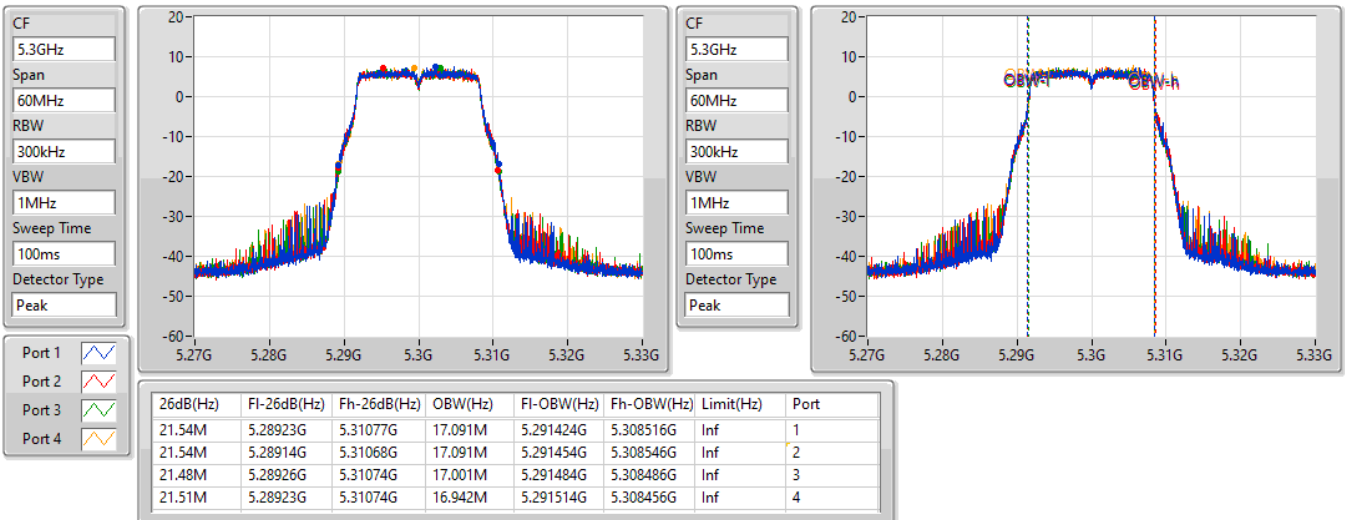
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX
EBW
5260MHz

26/07/2022

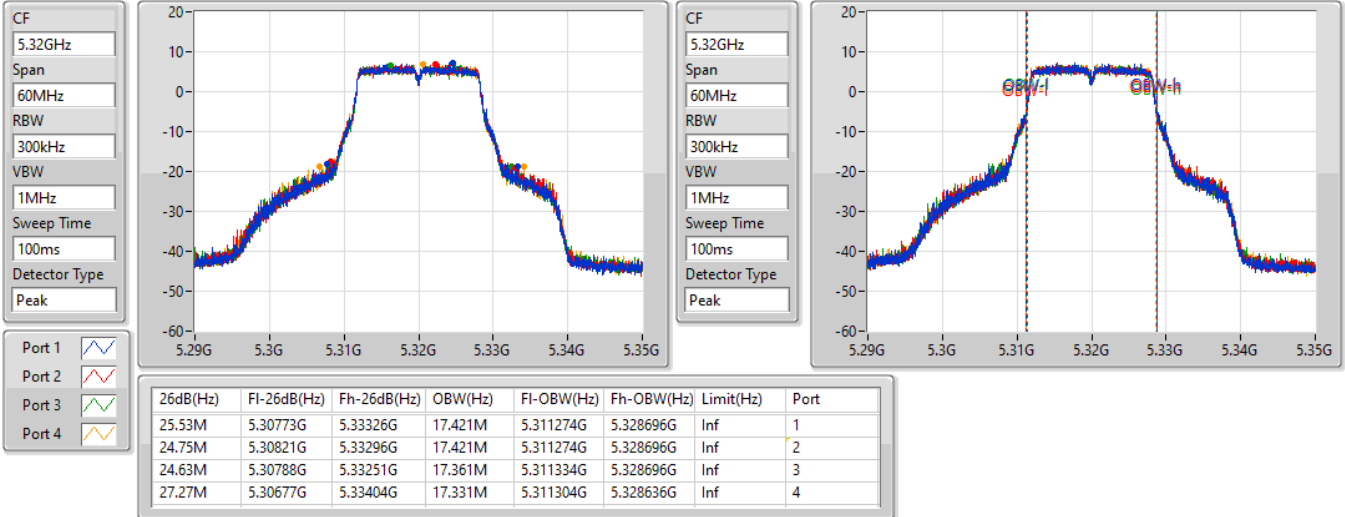

802.11a_Nss1,(6Mbps)_4TX
EBW
5300MHz

26/07/2022

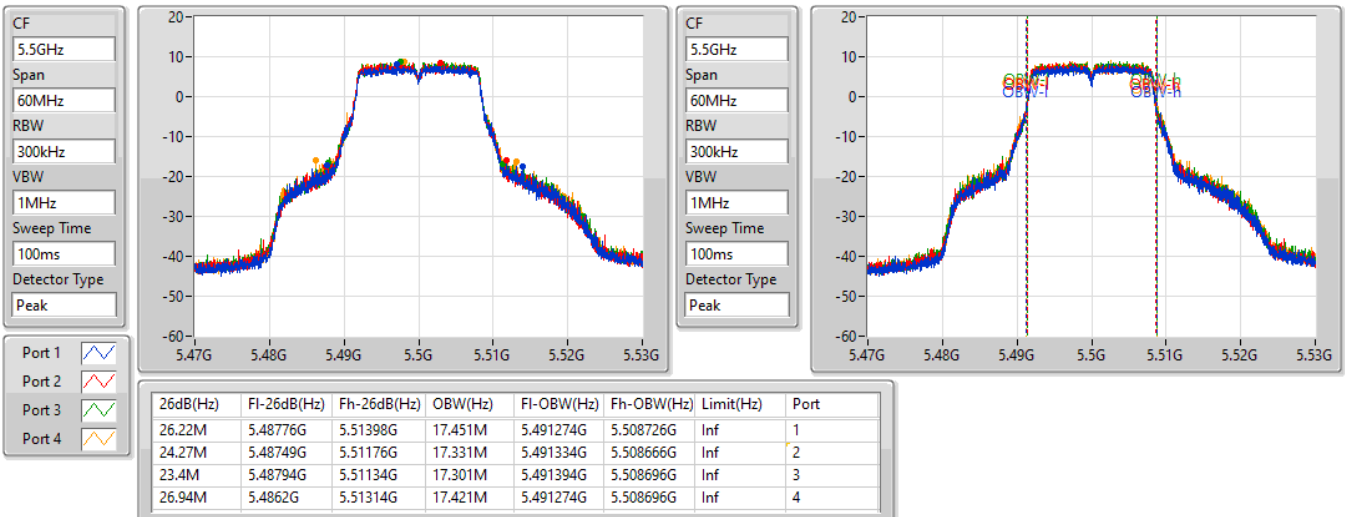


802.11a_Nss1,(6Mbps)_4TX
EBW
5320MHz

26/07/2022

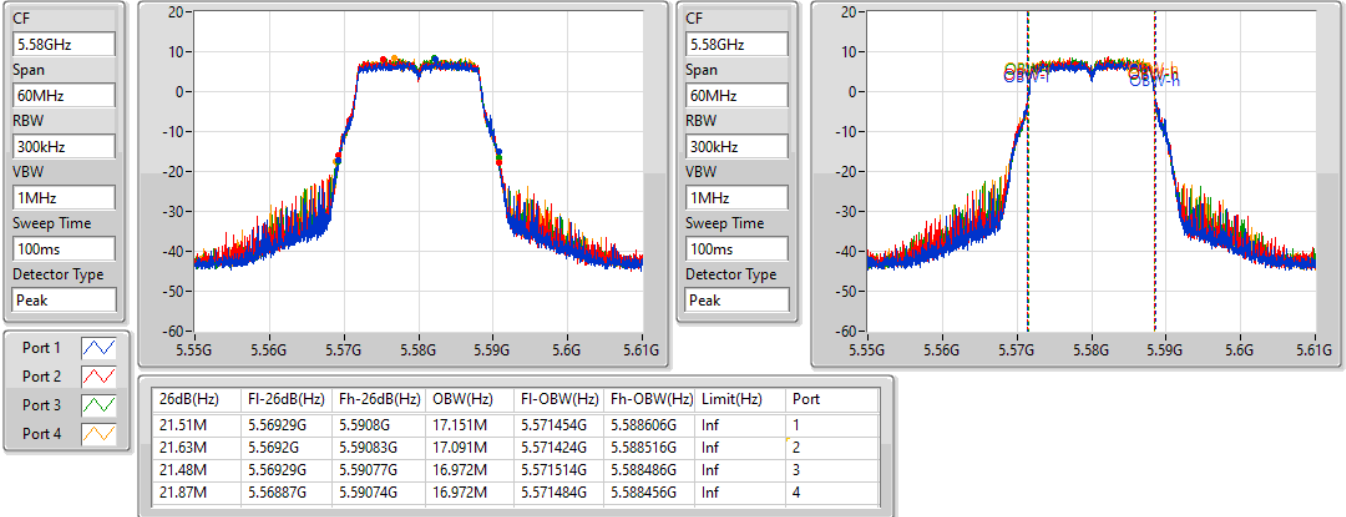

802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

26/07/2022

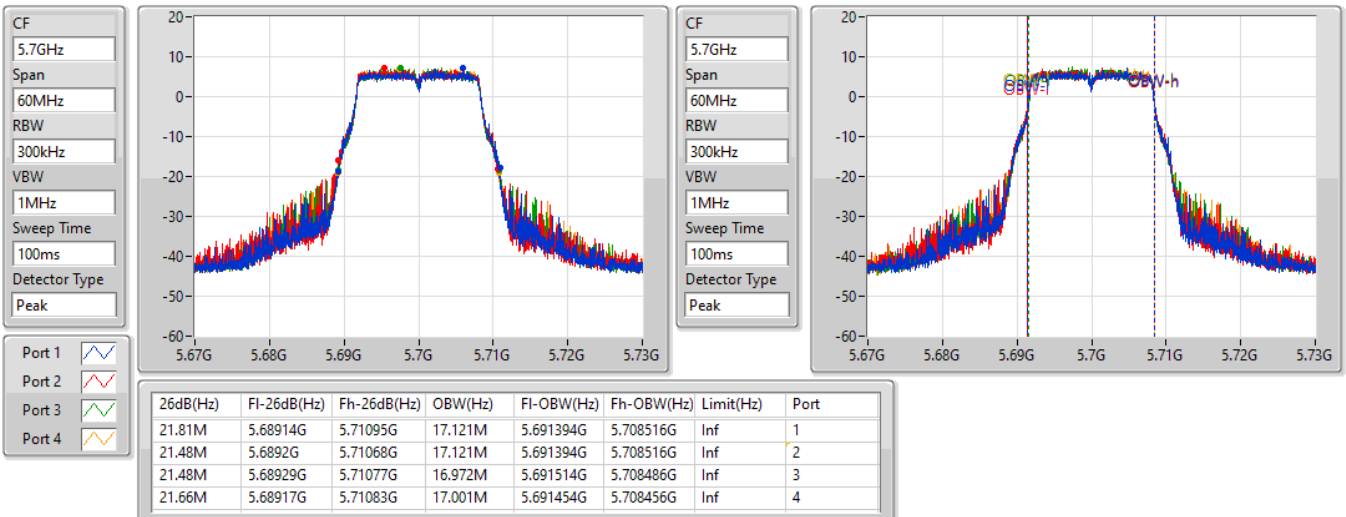


802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

26/07/2022

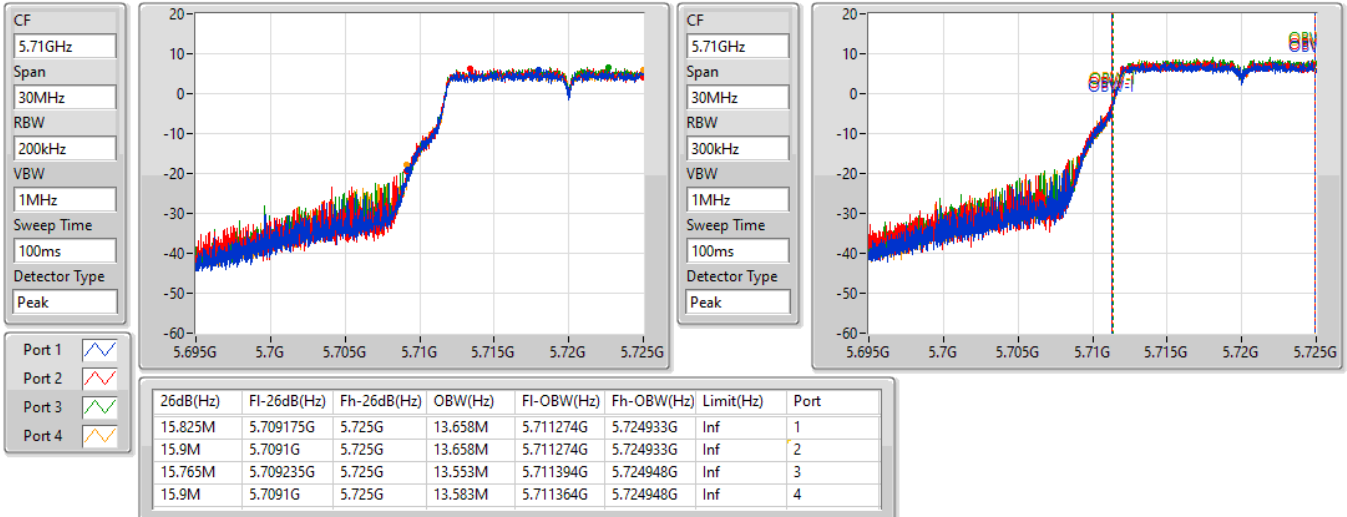

802.11a_Nss1,(6Mbps)_4TX
EBW
5700MHz

26/07/2022

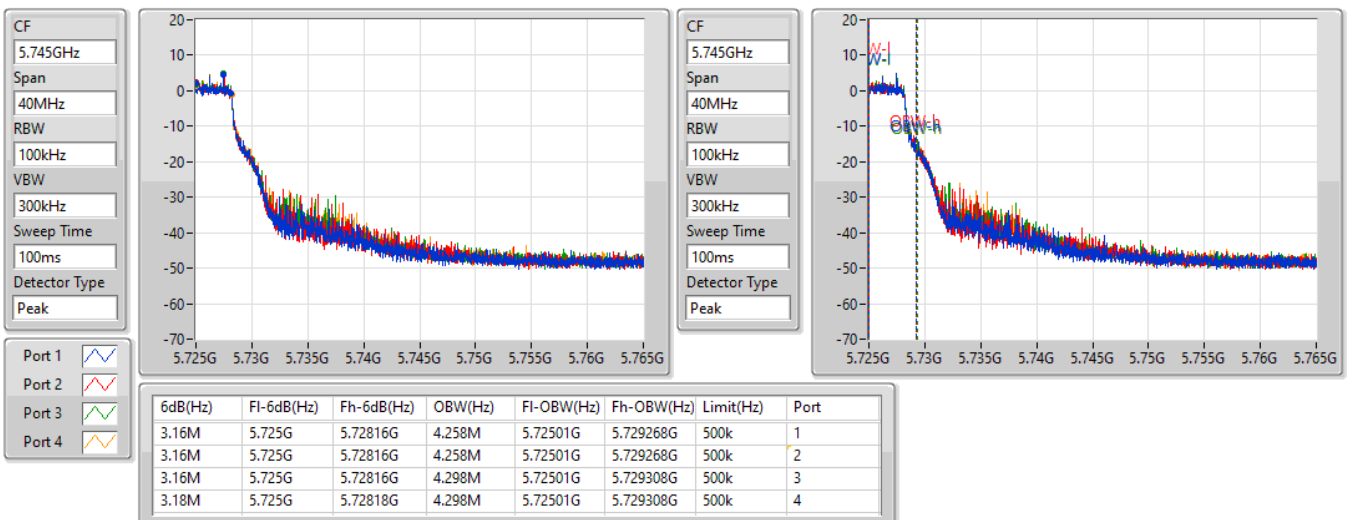


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

27/07/2022


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/07/2022

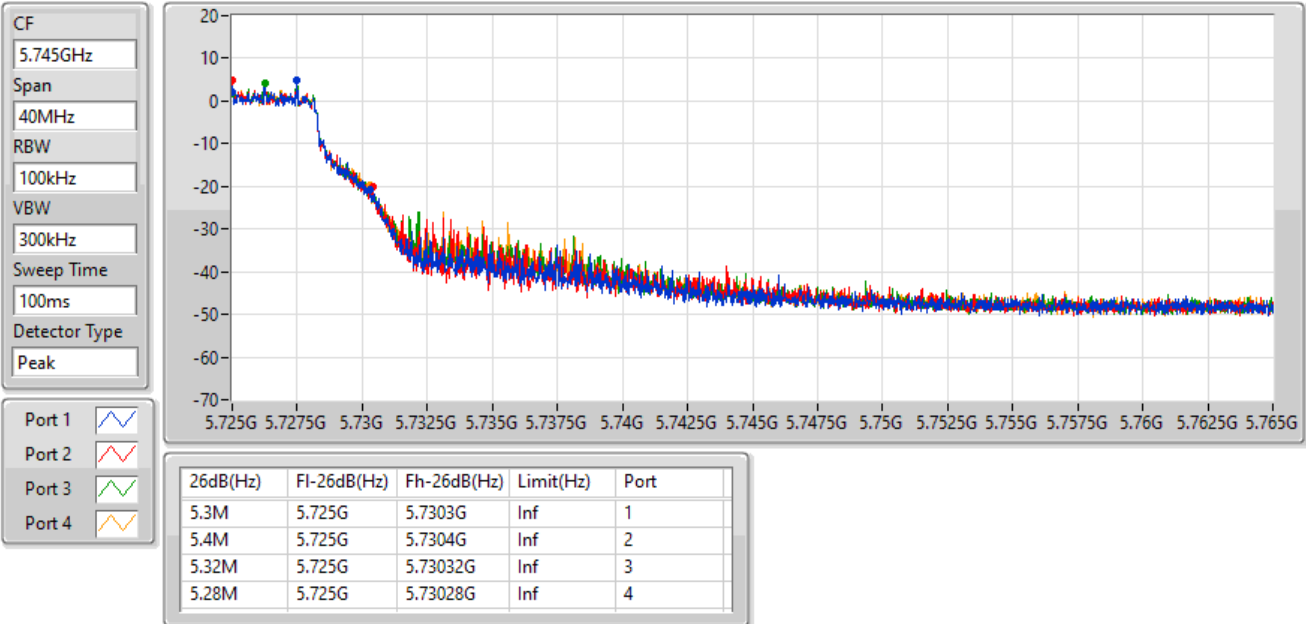


802.11a_Nss1,(6Mbps)_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

27/07/2022

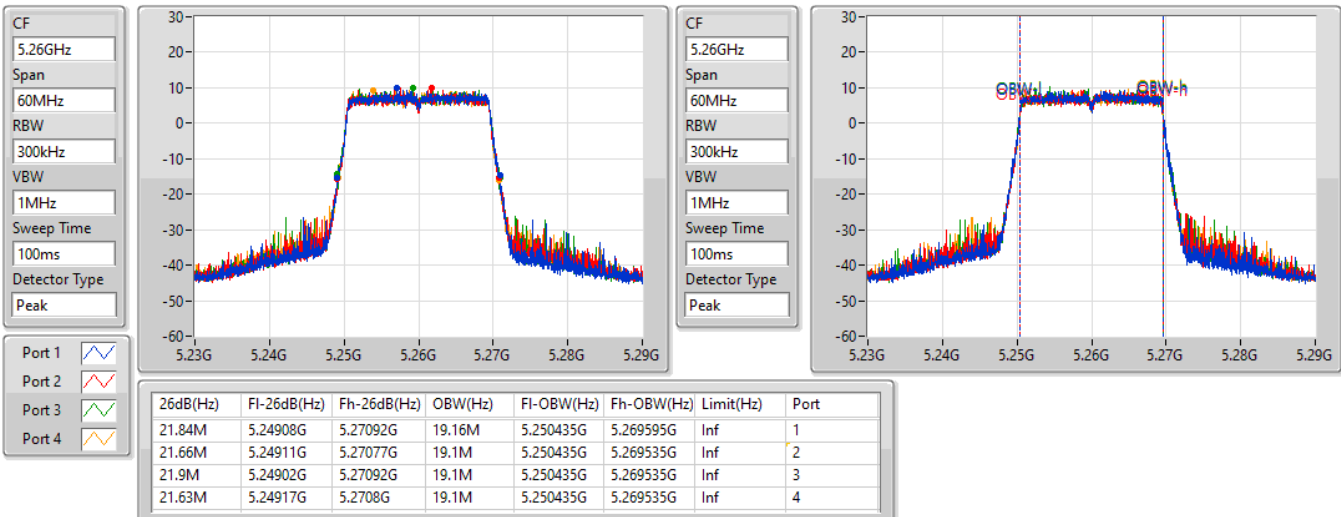


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

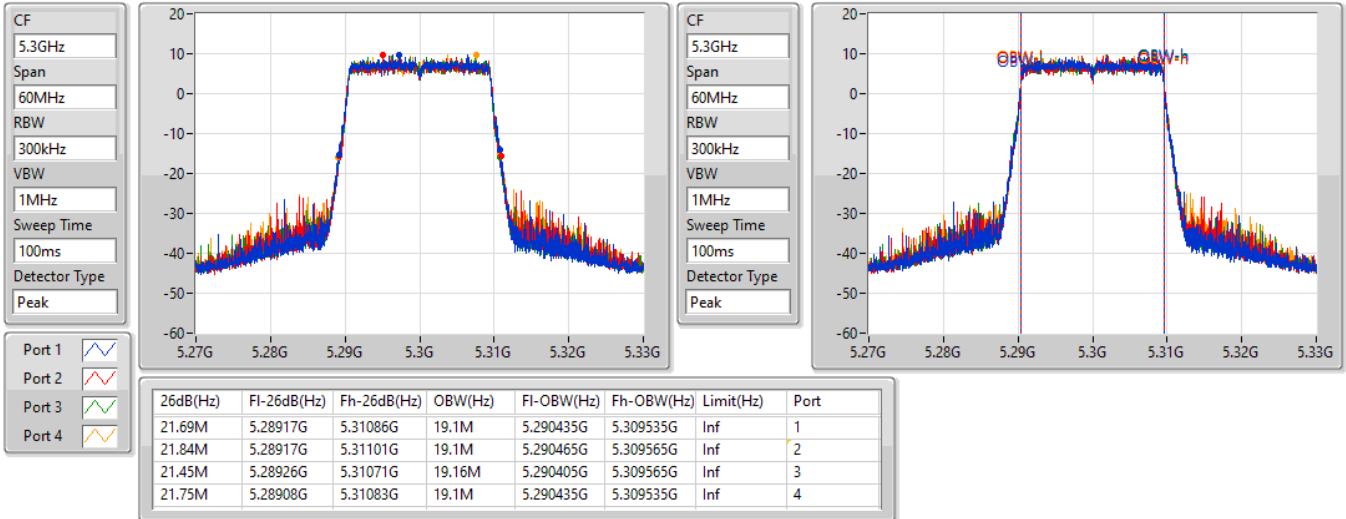
5260MHz

26/07/2022

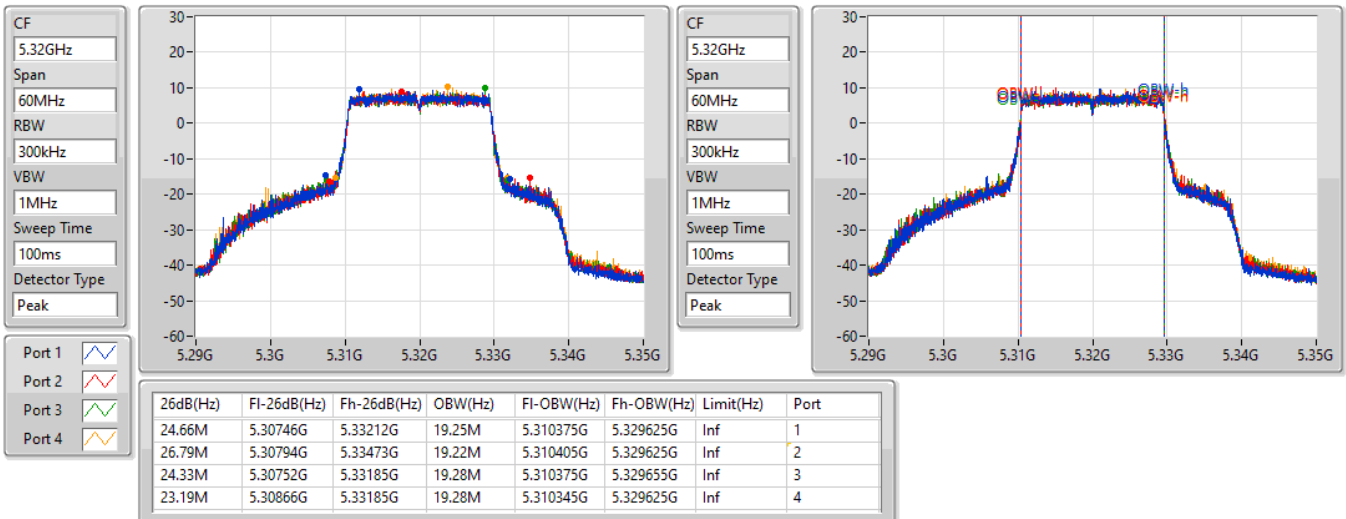


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5300MHz

26/07/2022

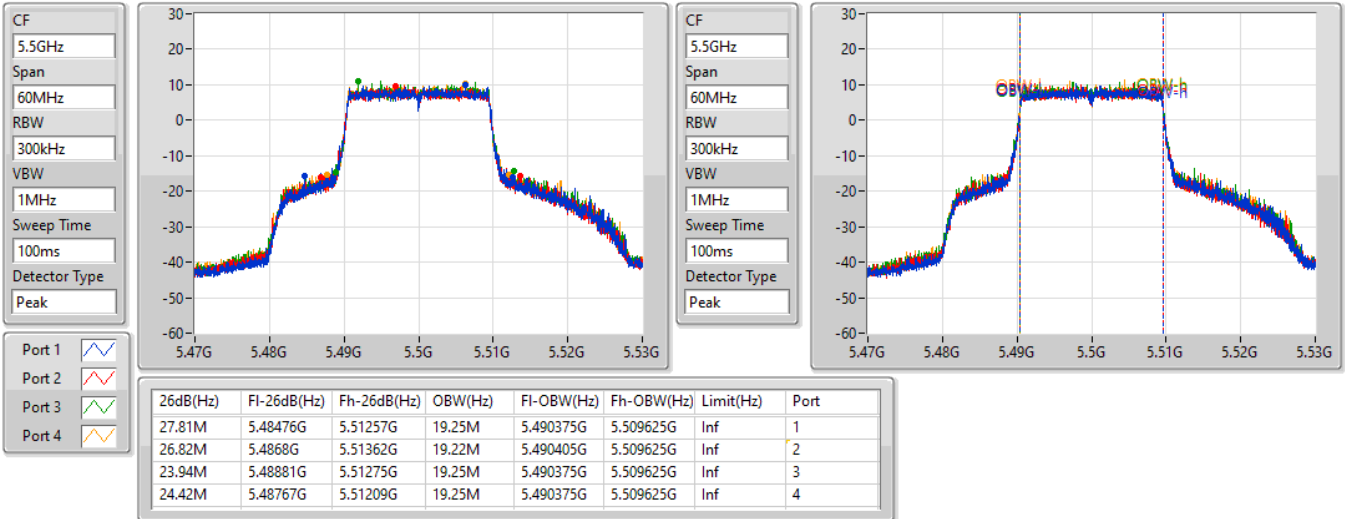

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5320MHz

26/07/2022

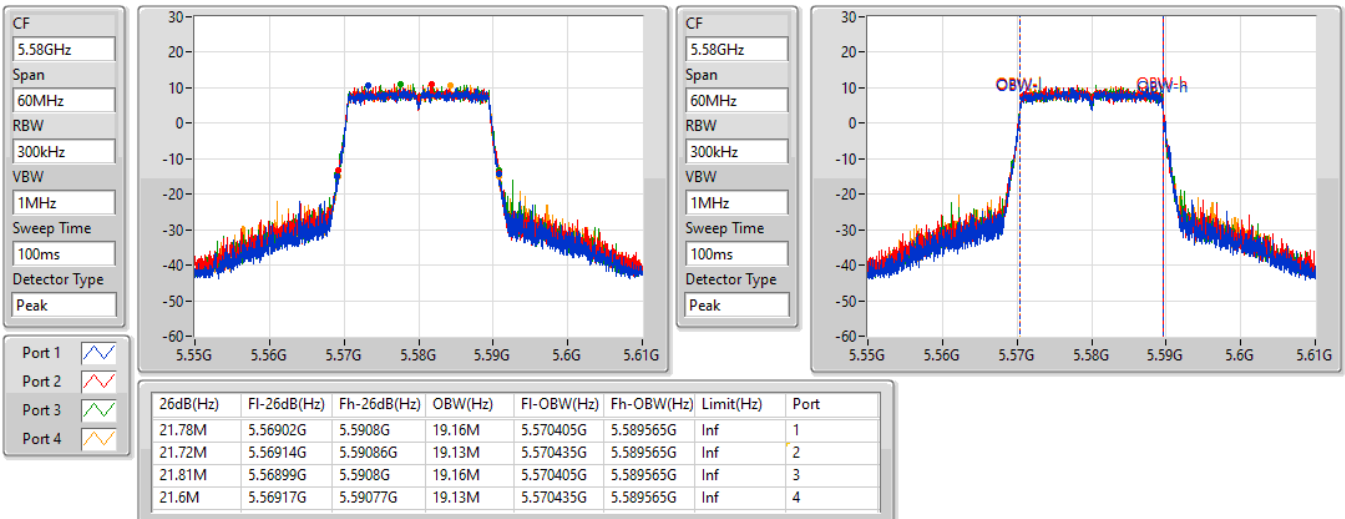


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5500MHz

26/07/2022

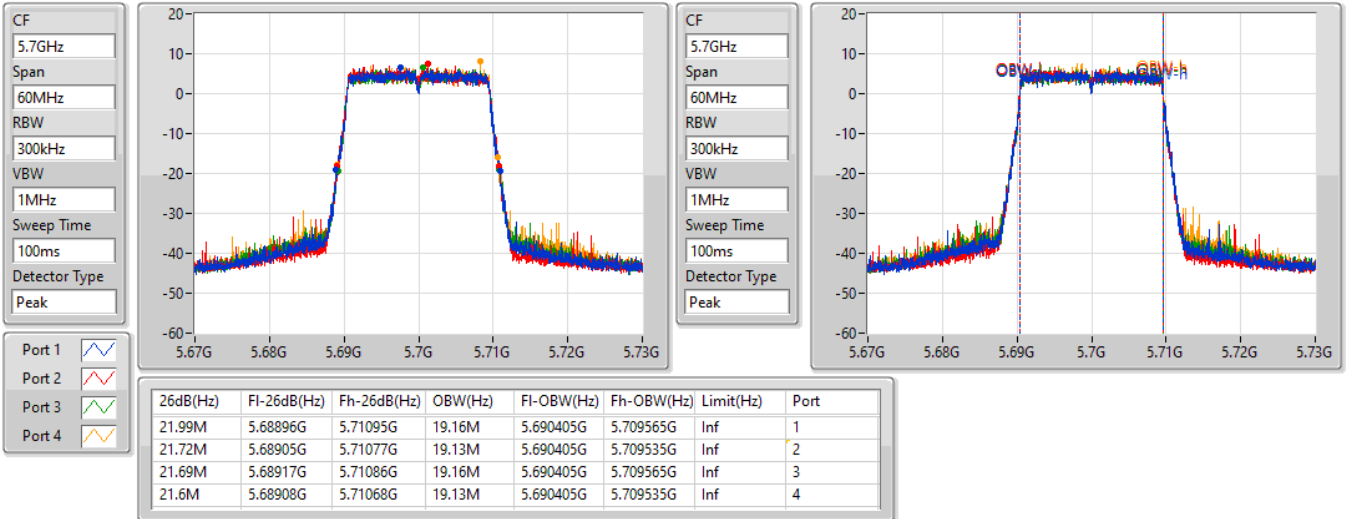

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5580MHz

26/07/2022

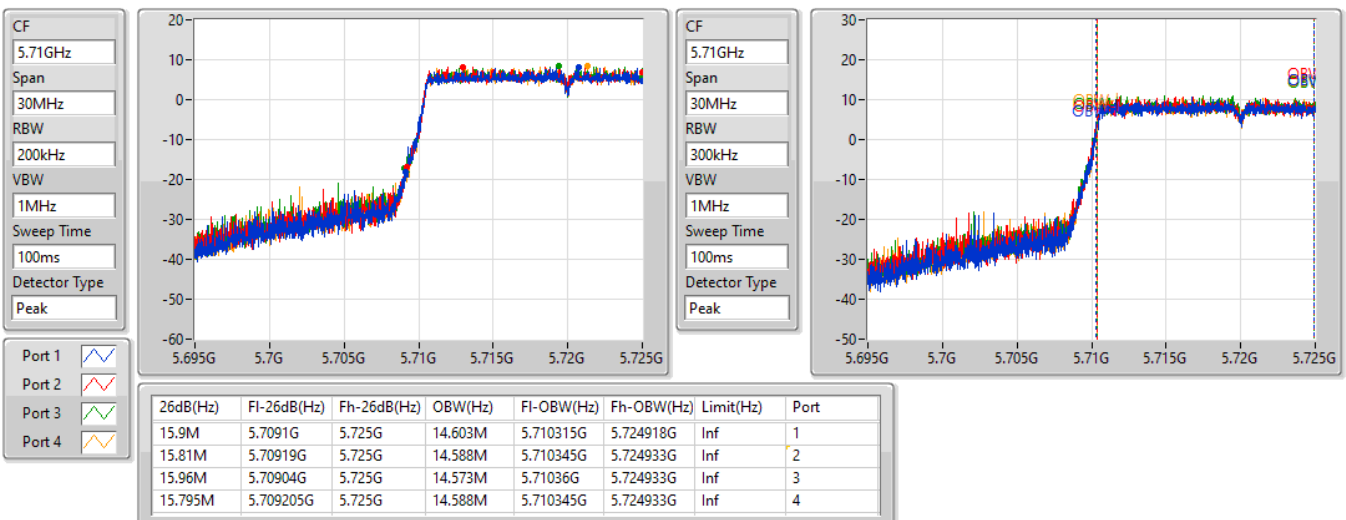


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

26/07/2022

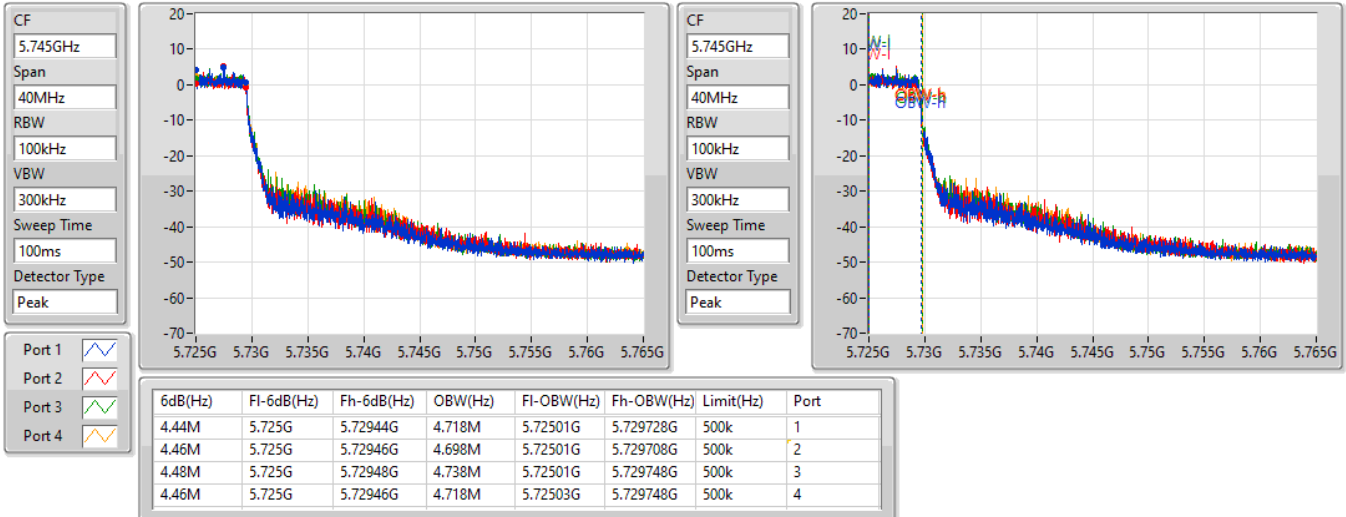

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

27/07/2022

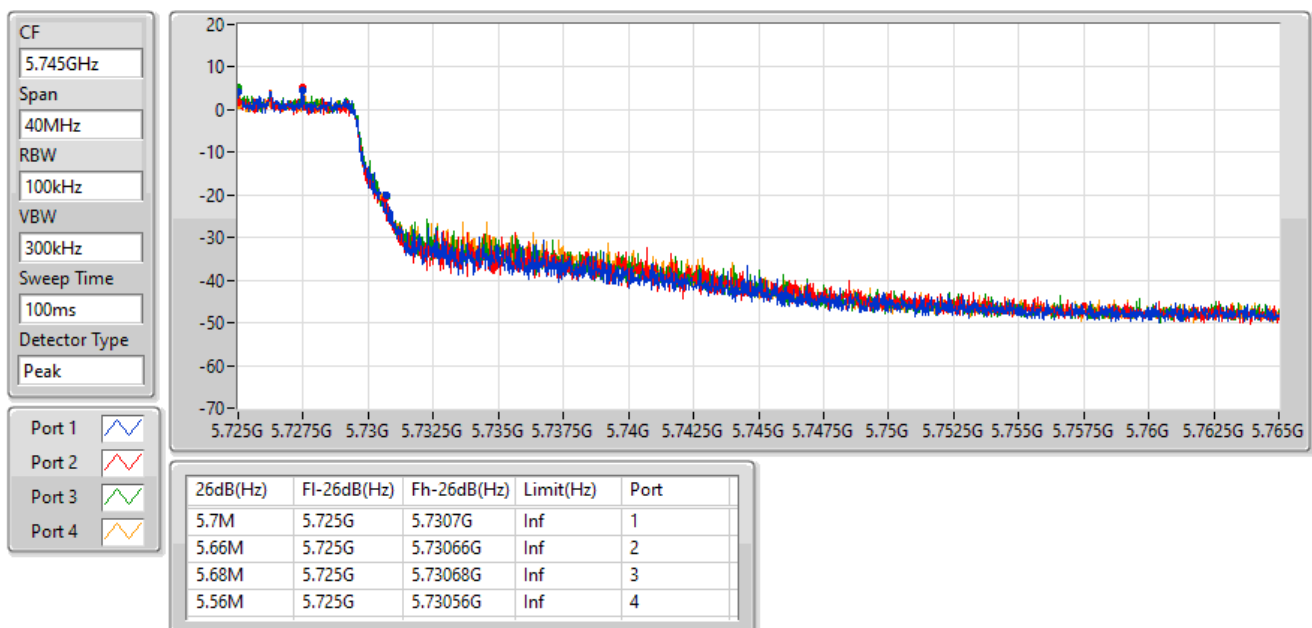


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/07/2022

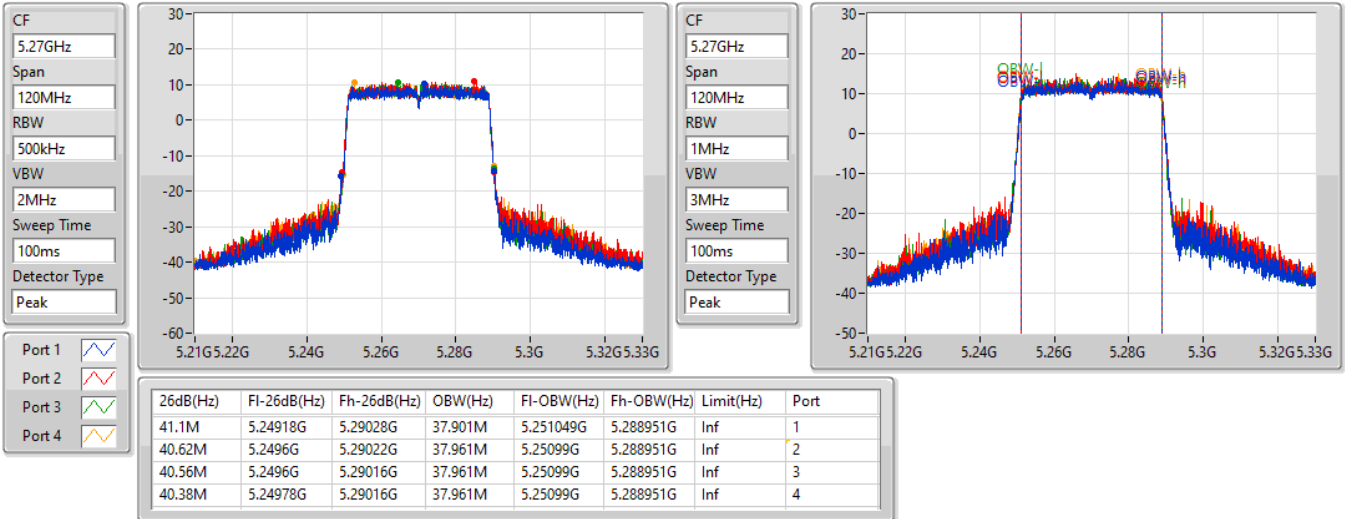

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/07/2022

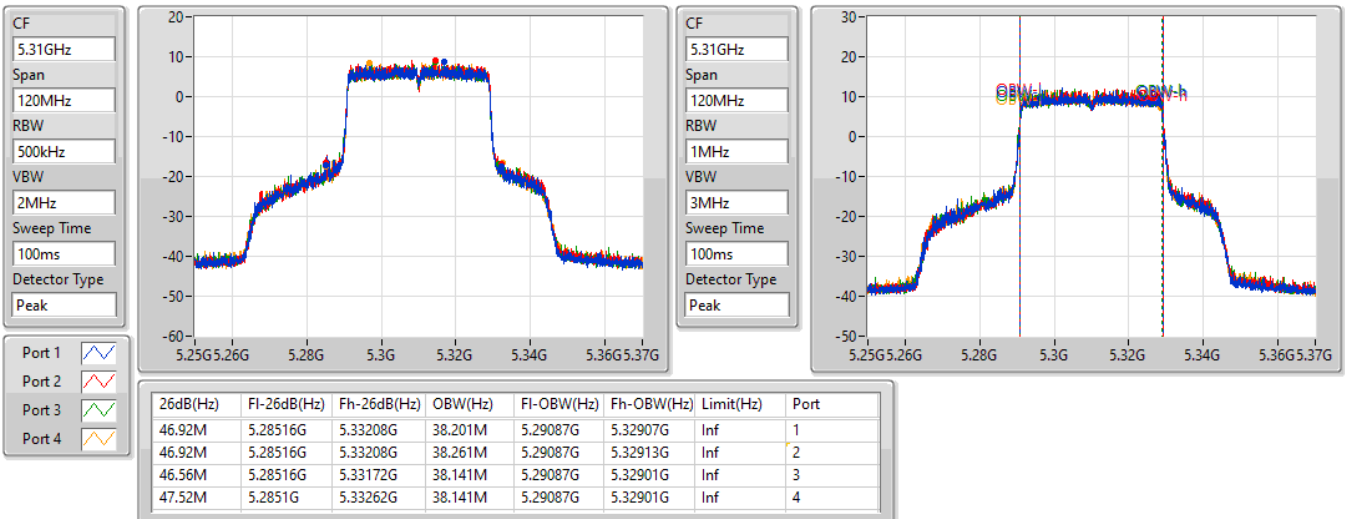


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5270MHz

26/07/2022

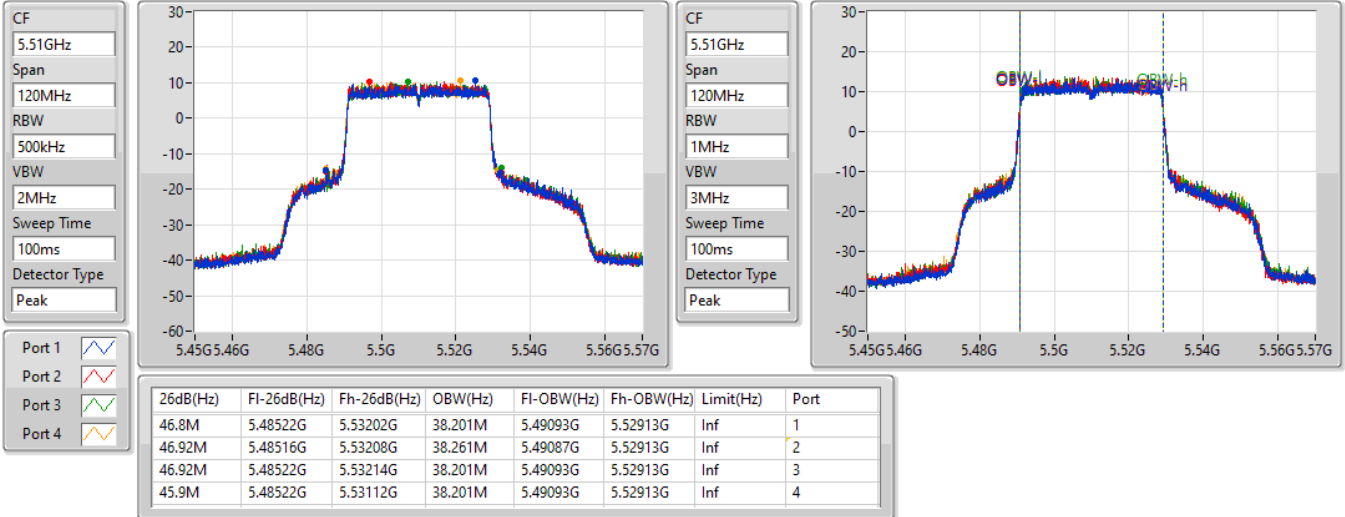

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5310MHz

26/07/2022

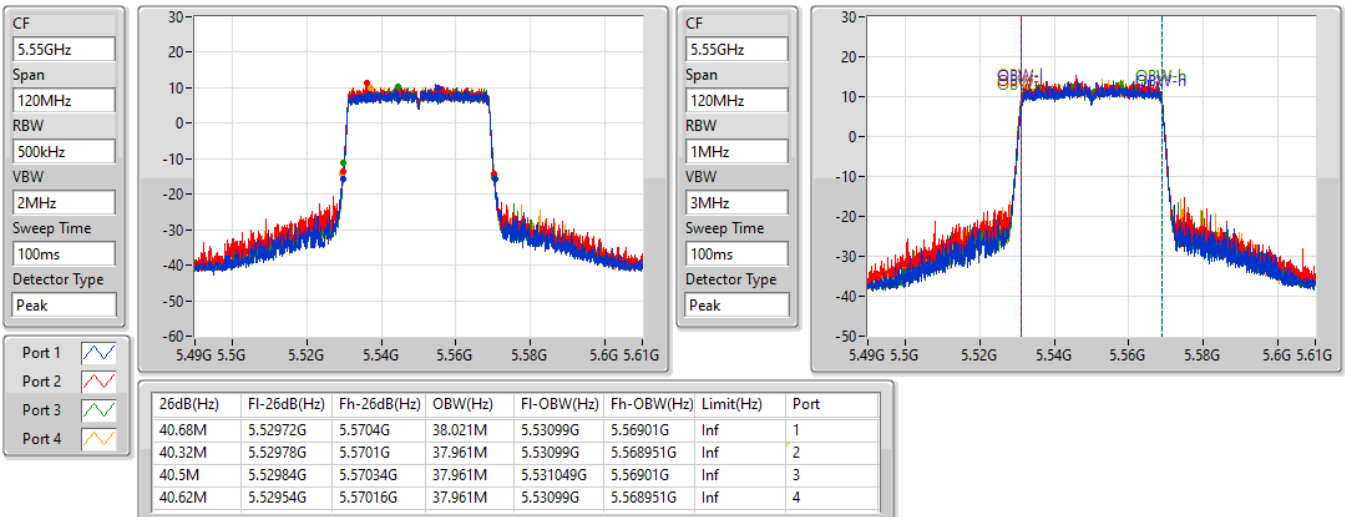


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5510MHz

26/07/2022

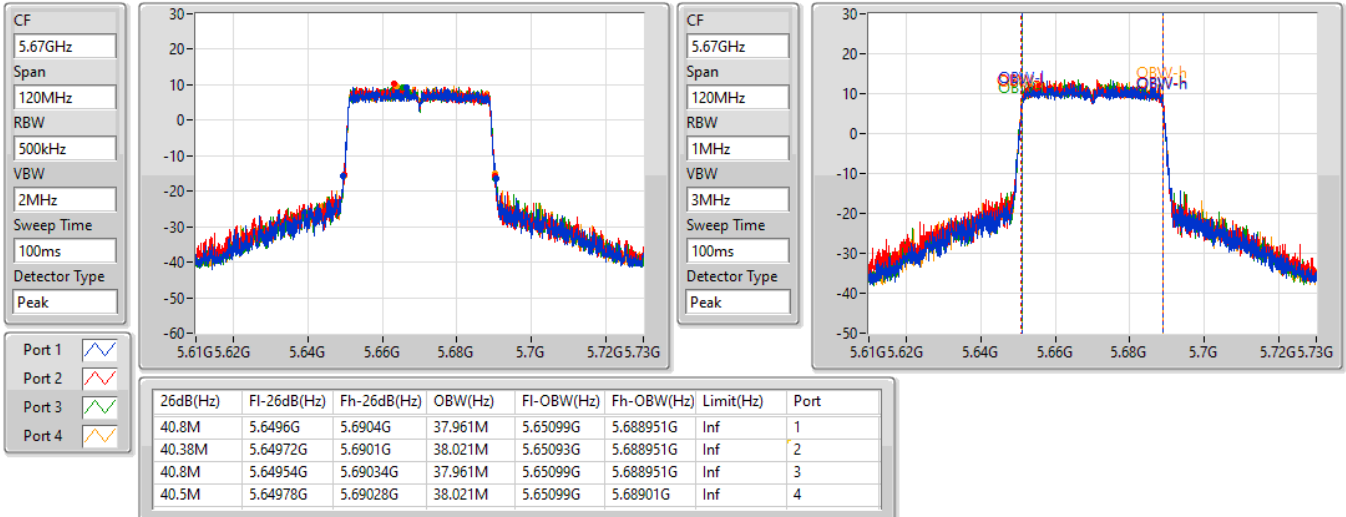

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5550MHz

26/07/2022

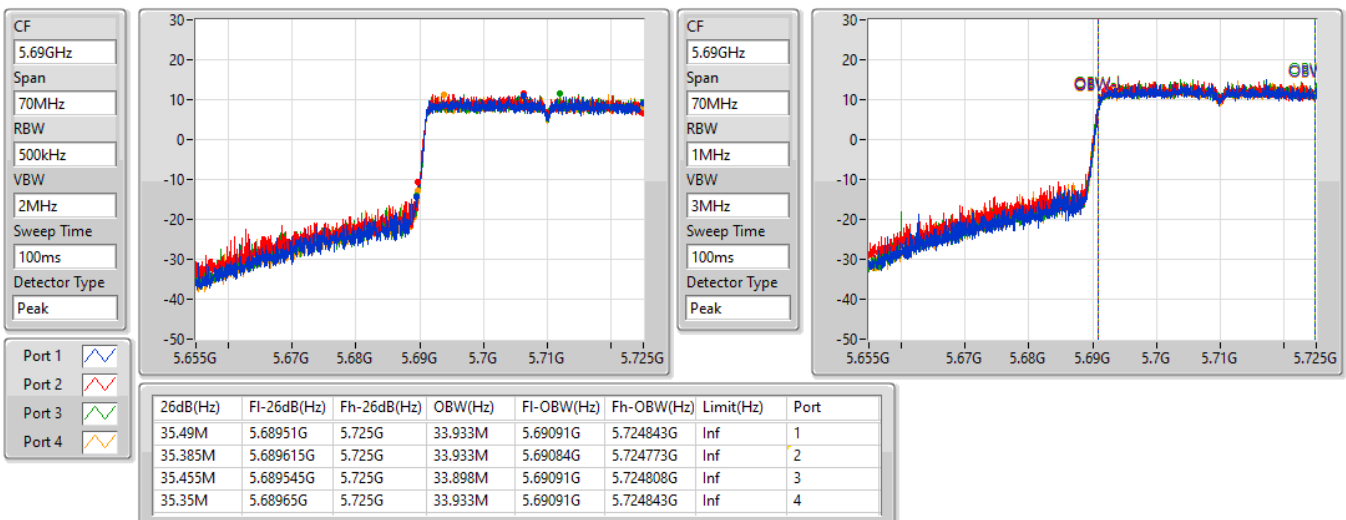


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5670MHz

26/07/2022

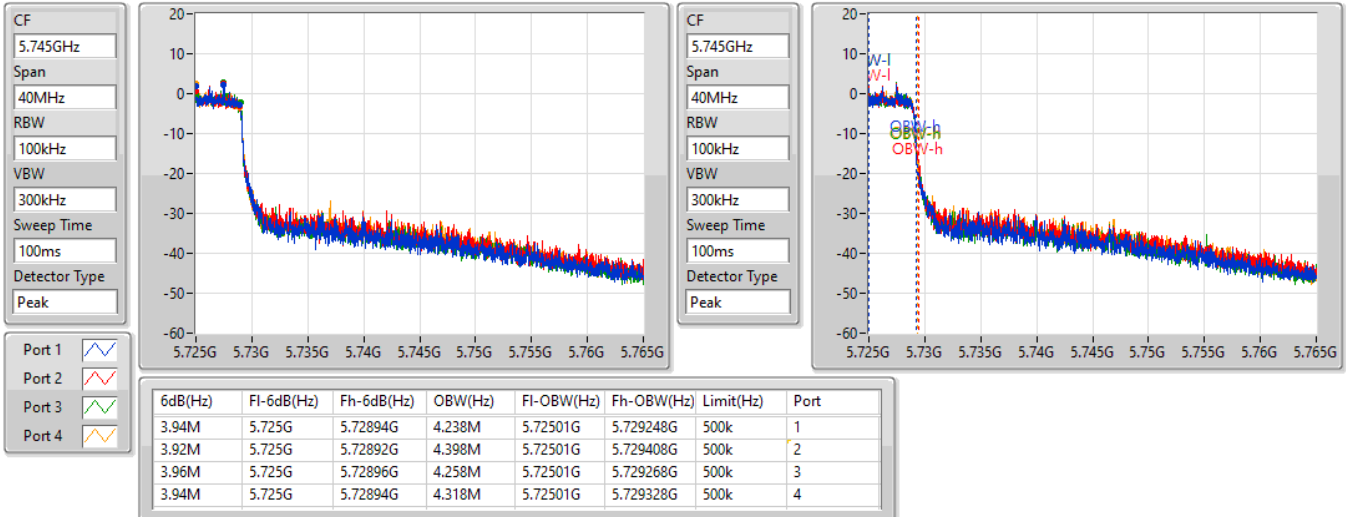

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

27/07/2022

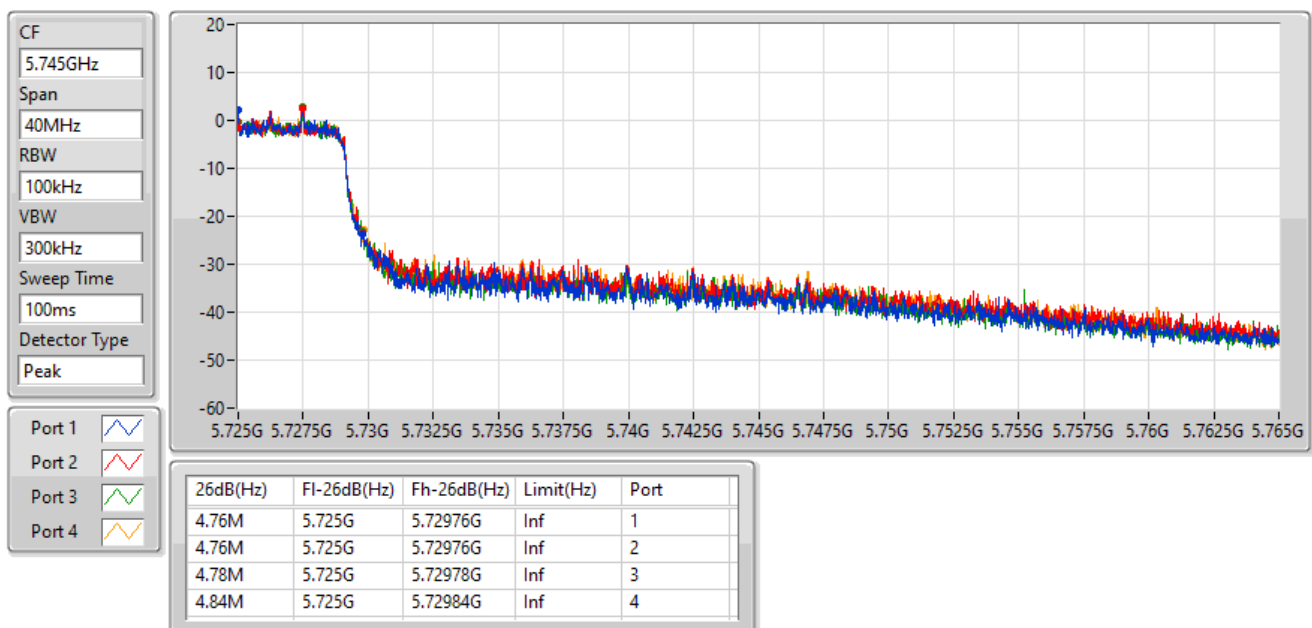


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

27/07/2022

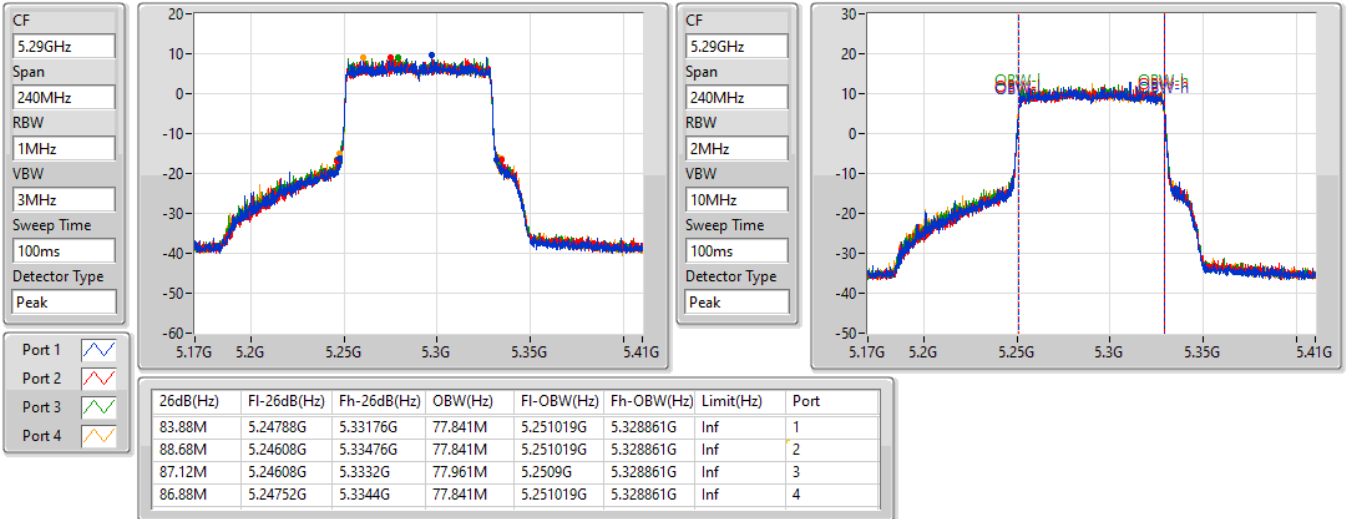

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

27/07/2022

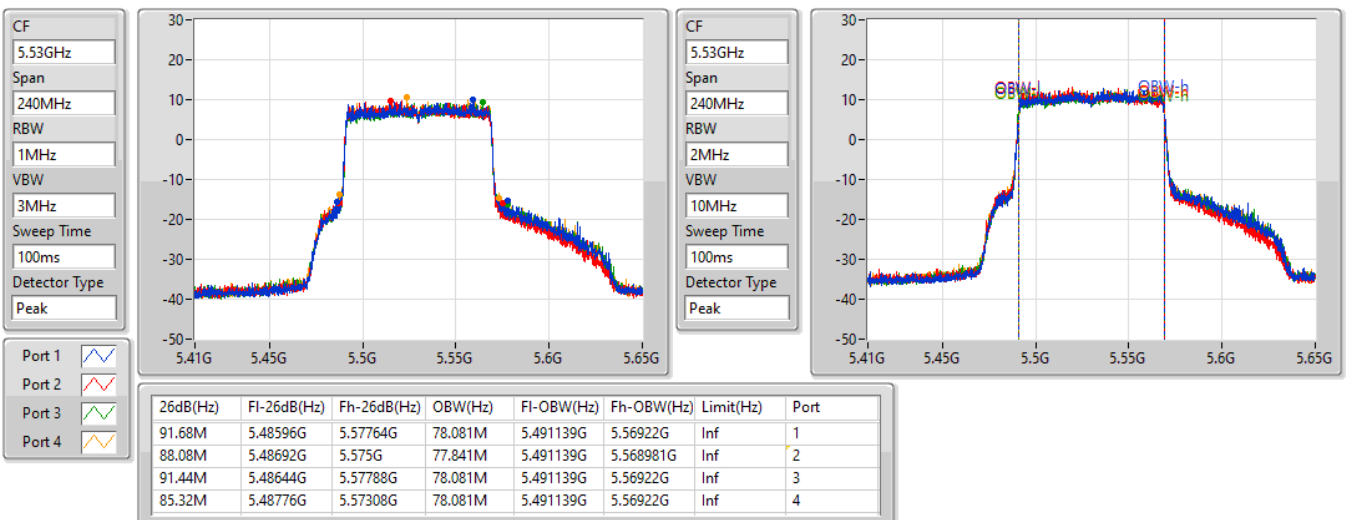


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5290MHz

26/07/2022

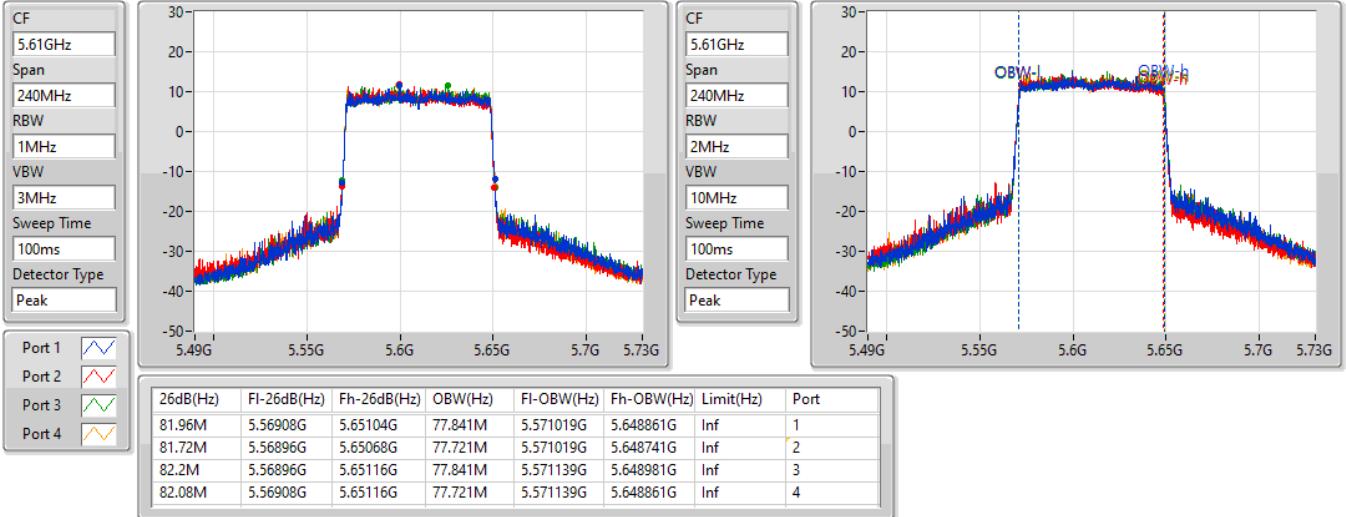

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5530MHz

26/07/2022

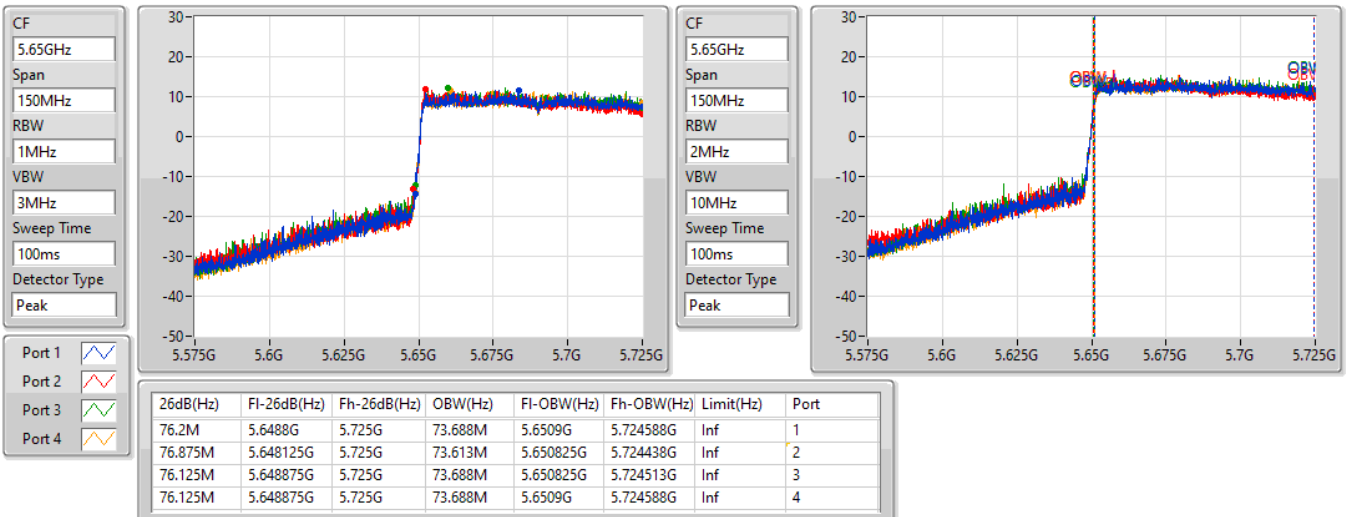


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

26/07/2022

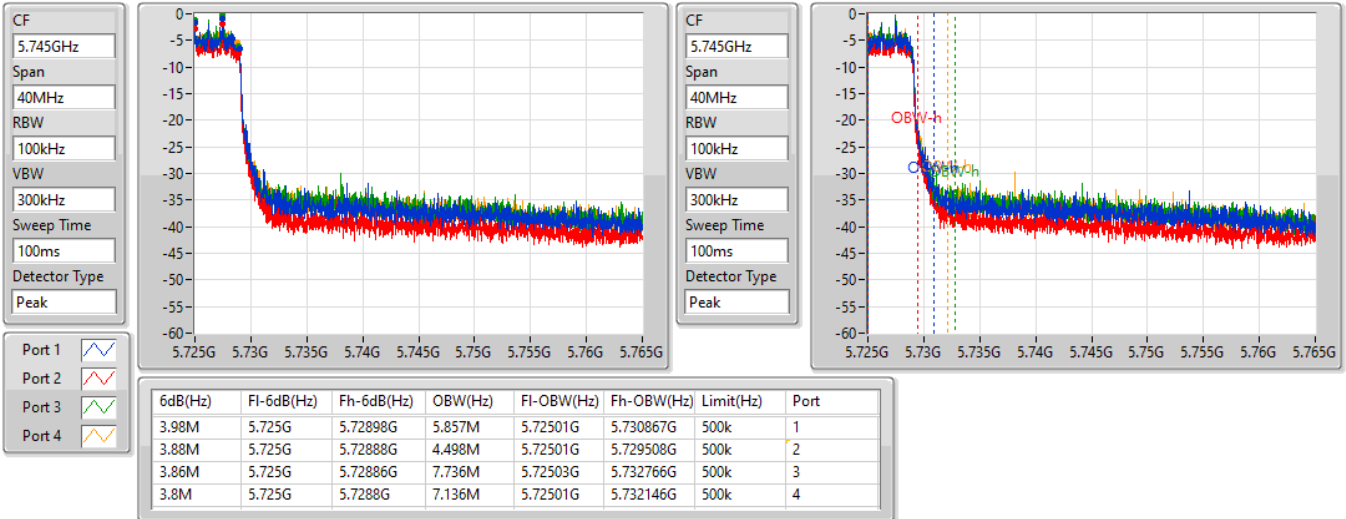

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

27/07/2022

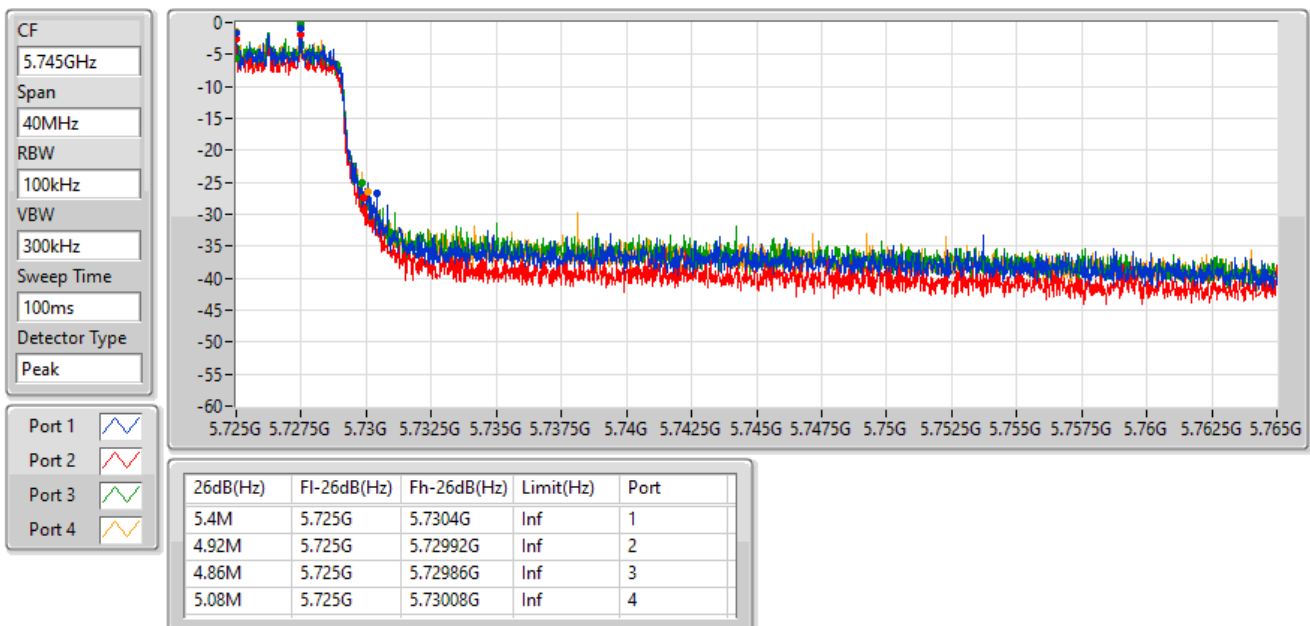


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

27/07/2022

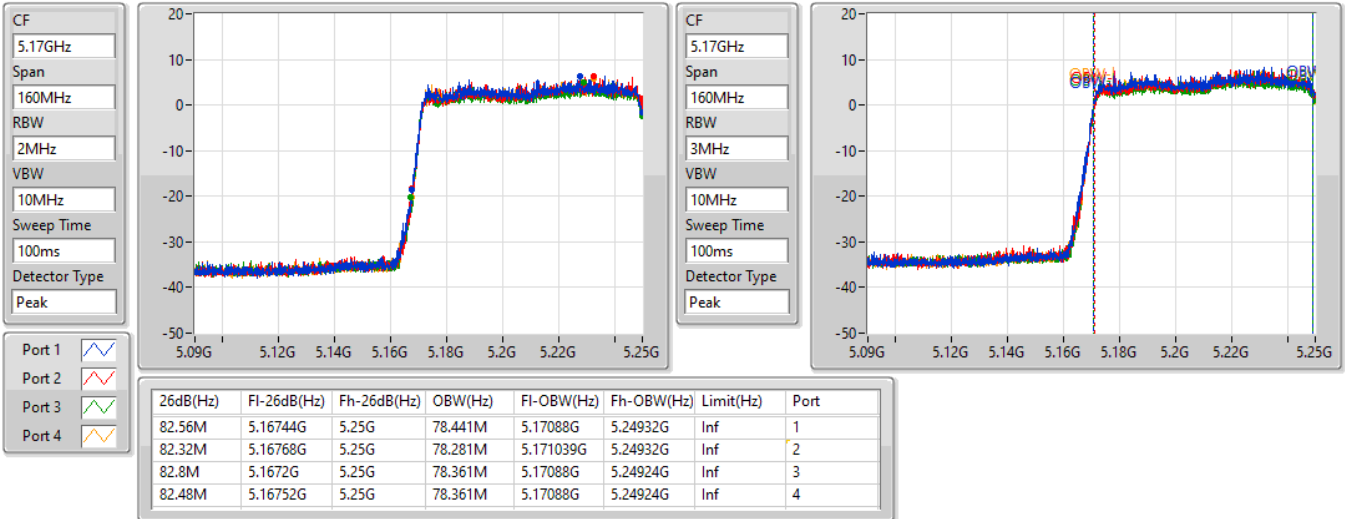

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

27/07/2022

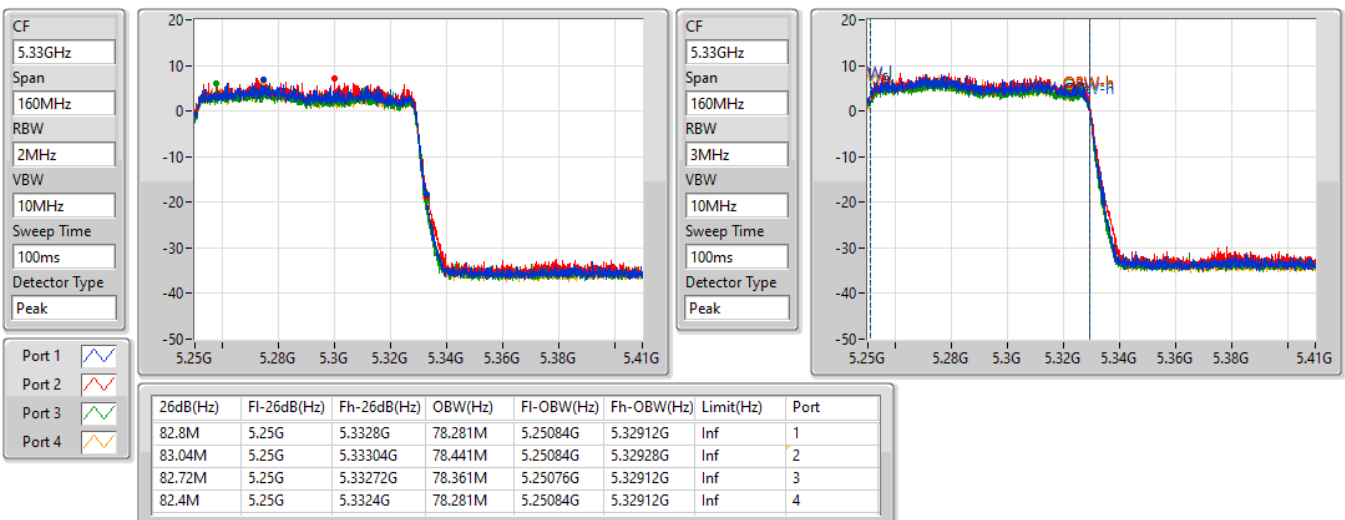


802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

26/07/2022

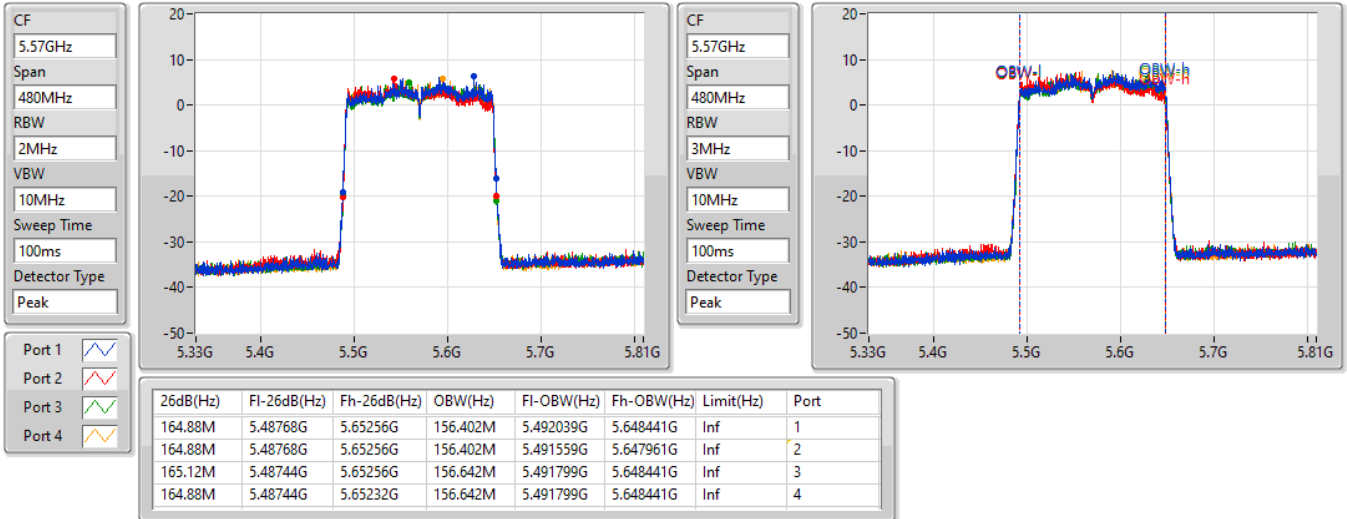

802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

26/07/2022



802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5570MHz

26/07/2022



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	83.12M	78.361M	78M4D1D	82.32M	78.281M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	25.23M	19.28M	19M3D1D	21.39M	19.07M
802.11ax HEW40_Nss4,(MCS0)_4TX	46.86M	38.261M	38M3D1D	40.38M	37.901M
802.11ax HEW80_Nss4,(MCS0)_4TX	90M	78.201M	78M2D1D	85.32M	78.081M
802.11ax HEW160_Nss4,(MCS0)_4TX	83.76M	78.921M	78M9D1D	82.48M	78.441M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	26.16M	19.31M	19M3D1D	15.72M	14.558M
802.11ax HEW40_Nss4,(MCS0)_4TX	50.58M	38.261M	38M3D1D	35.245M	33.898M
802.11ax HEW80_Nss4,(MCS0)_4TX	90.48M	78.321M	78M3D1D	76.05M	73.613M
802.11ax HEW160_Nss4,(MCS0)_4TX	166.08M	156.642M	157MD1D	164.64M	156.402M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	4.48M	4.698M	4M70D1D	4.44M	4.658M
802.11ax HEW40_Nss4,(MCS0)_4TX	3.94M	4.178M	4M18D1D	3.8M	4.158M
802.11ax HEW80_Nss4,(MCS0)_4TX	4M	18.471M	18M5D1D	3.84M	17.531M

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

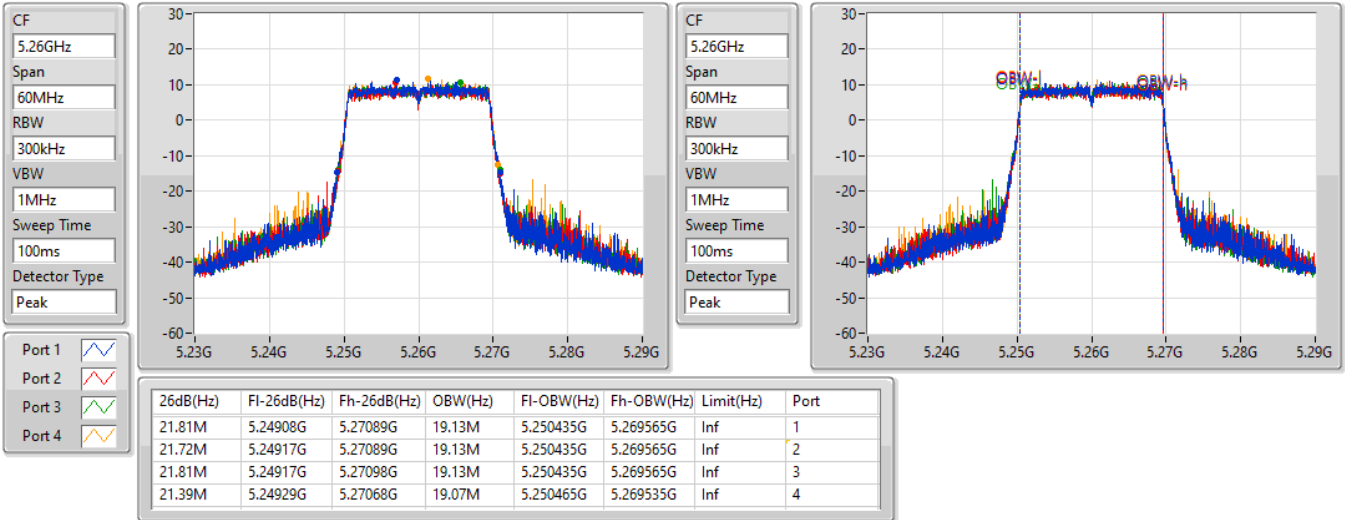
Result

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)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.81M	19.13M	21.72M	19.13M	21.81M	19.13M	21.39M	19.07M
5300MHz	Pass	Inf	21.81M	19.16M	21.63M	19.13M	21.6M	19.1M	21.78M	19.07M
5320MHz	Pass	Inf	25.23M	19.28M	25.08M	19.25M	24.03M	19.28M	24.42M	19.22M
5500MHz	Pass	Inf	25.74M	19.25M	25.41M	19.22M	25.47M	19.31M	26.16M	19.22M
5580MHz	Pass	Inf	21.78M	19.19M	21.51M	19.1M	21.6M	19.1M	21.84M	19.1M
5700MHz	Pass	Inf	21.9M	19.1M	21.6M	19.13M	21.6M	19.13M	21.57M	19.16M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.72M	14.588M	15.765M	14.558M	15.78M	14.573M	15.825M	14.558M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	4.698M	4.44M	4.658M	4.46M	4.698M	4.44M	4.698M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	46.56M	37.901M	40.5M	37.961M	40.38M	38.021M	44.58M	37.901M
5310MHz	Pass	Inf	46.38M	38.201M	46.86M	38.141M	46.38M	38.201M	43.98M	38.261M
5510MHz	Pass	Inf	50.28M	38.261M	50.58M	38.201M	50.52M	38.141M	44.1M	38.201M
5550MHz	Pass	Inf	43.14M	37.961M	40.14M	37.961M	40.32M	37.901M	40.26M	38.021M
5670MHz	Pass	Inf	40.38M	37.961M	40.44M	38.021M	42.72M	38.141M	40.44M	38.021M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.245M	33.898M	35.245M	33.898M	35.35M	33.933M	35.245M	33.898M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	4.158M	3.8M	4.178M	3.94M	4.178M	3.8M	4.178M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	85.32M	78.201M	90M	78.081M	89.04M	78.081M	87.24M	78.081M
5530MHz	Pass	Inf	89.76M	78.321M	87.6M	77.961M	85.56M	77.961M	90.48M	78.081M
5610MHz	Pass	Inf	81.84M	77.721M	81.96M	77.721M	81.6M	77.601M	81.6M	77.601M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.05M	73.688M	76.2M	73.688M	76.425M	73.688M	88.875M	73.613M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.84M	17.751M	3.86M	17.531M	3.84M	18.471M	4M	18.131M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.56M	78.361M	82.64M	78.361M	82.32M	78.281M	83.12M	78.281M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.72M	78.521M	83.76M	78.921M	83.2M	78.601M	82.48M	78.441M
5570MHz	Pass	Inf	164.64M	156.642M	166.08M	156.642M	164.88M	156.402M	165.12M	156.642M

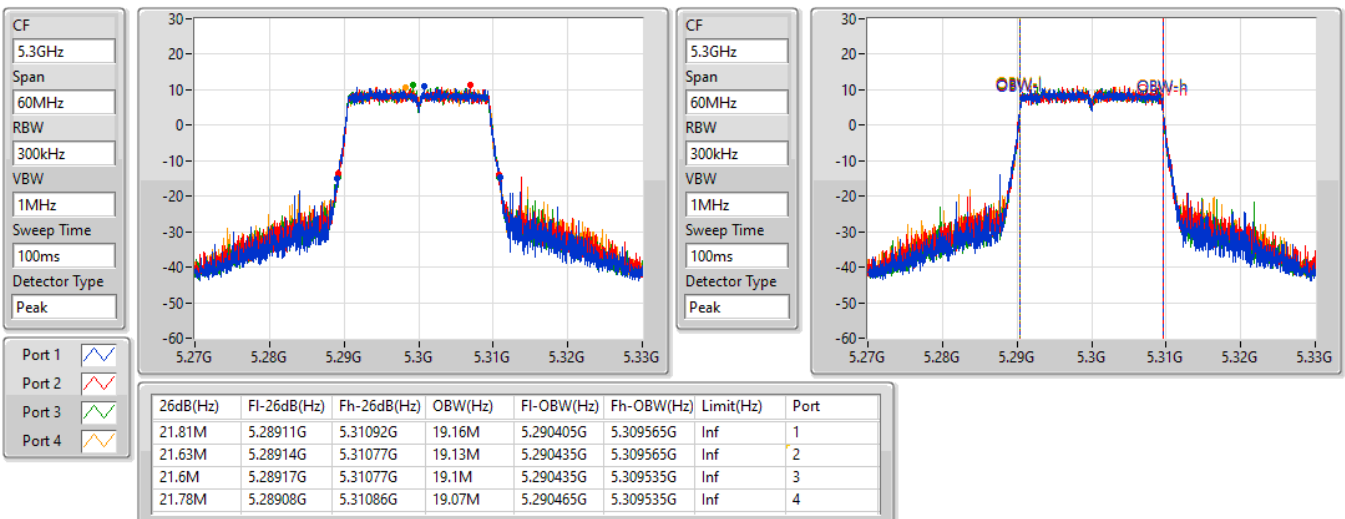
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5260MHz

26/07/2022

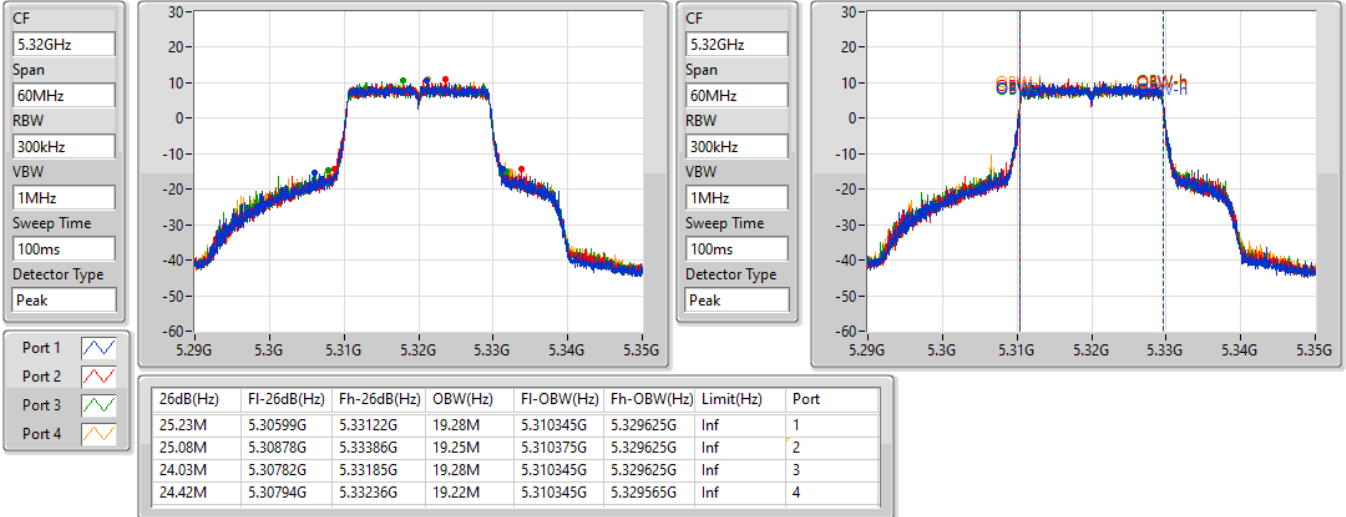

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5300MHz

26/07/2022

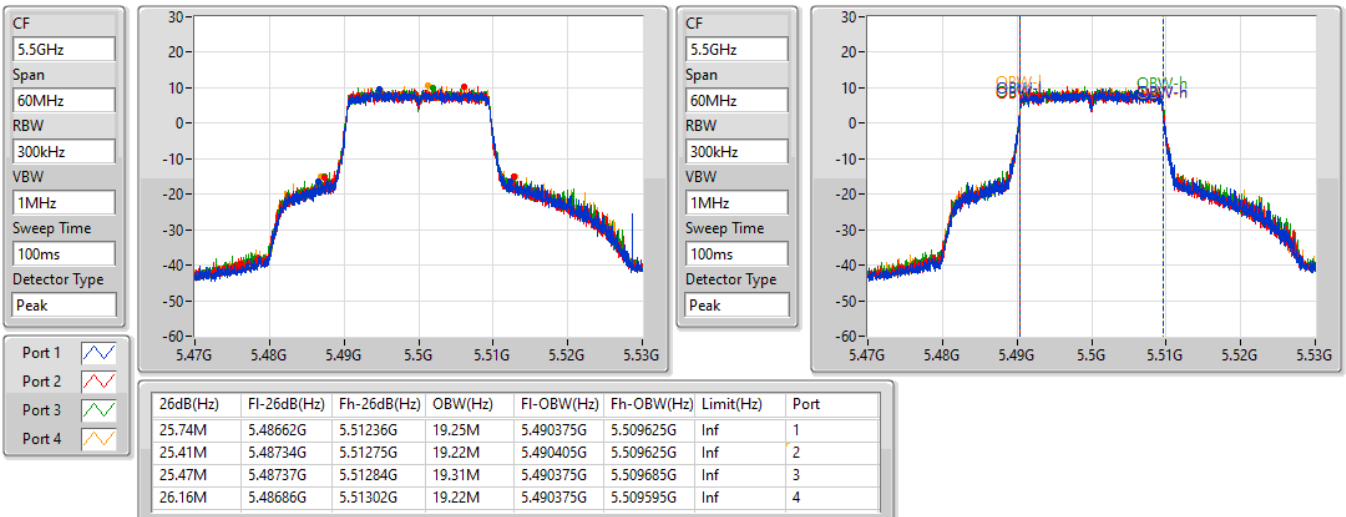


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5320MHz

26/07/2022

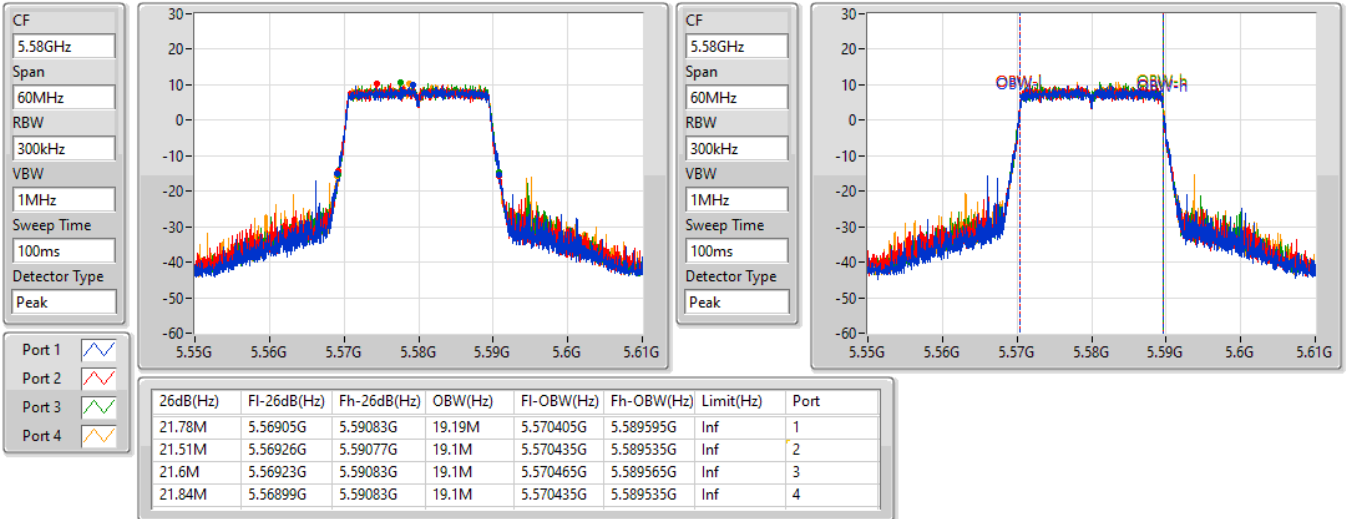

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5500MHz

26/07/2022

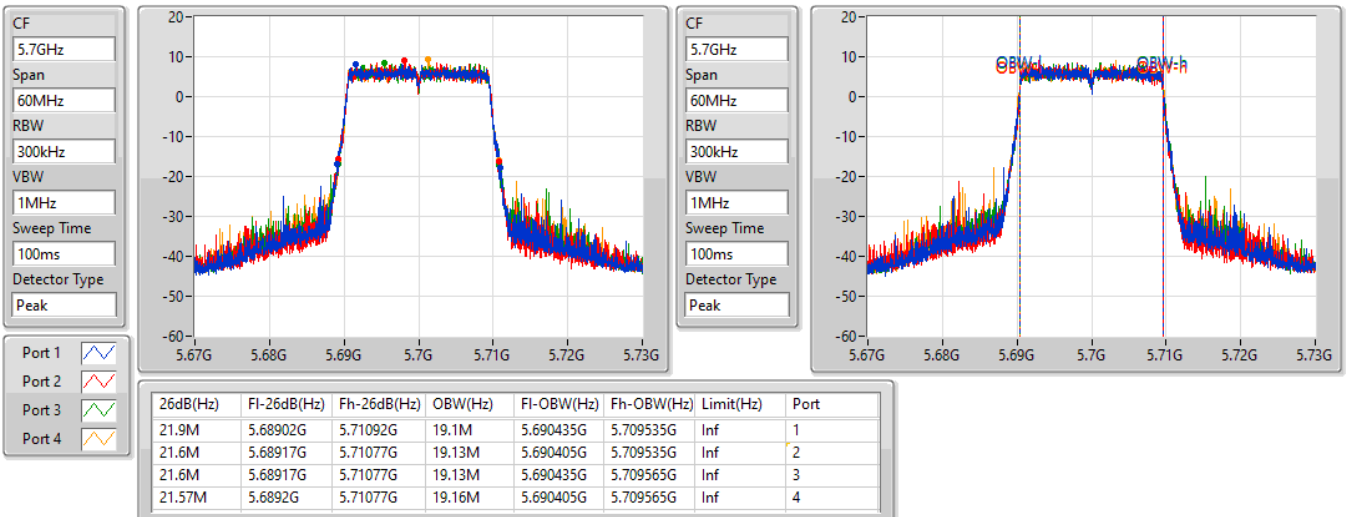


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5580MHz

26/07/2022

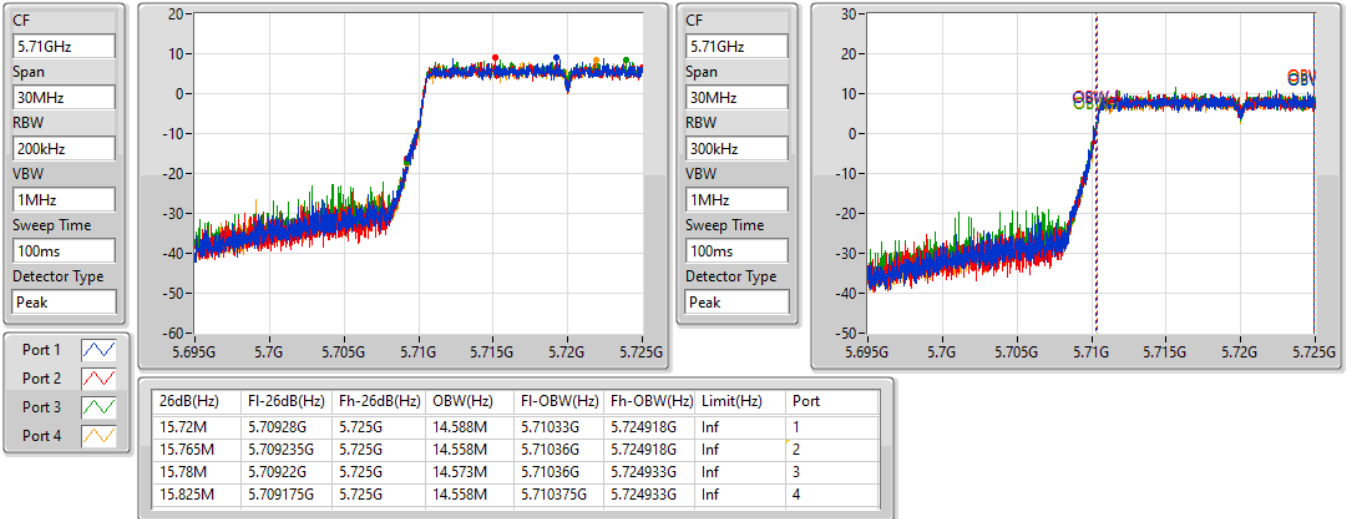

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5700MHz

26/07/2022

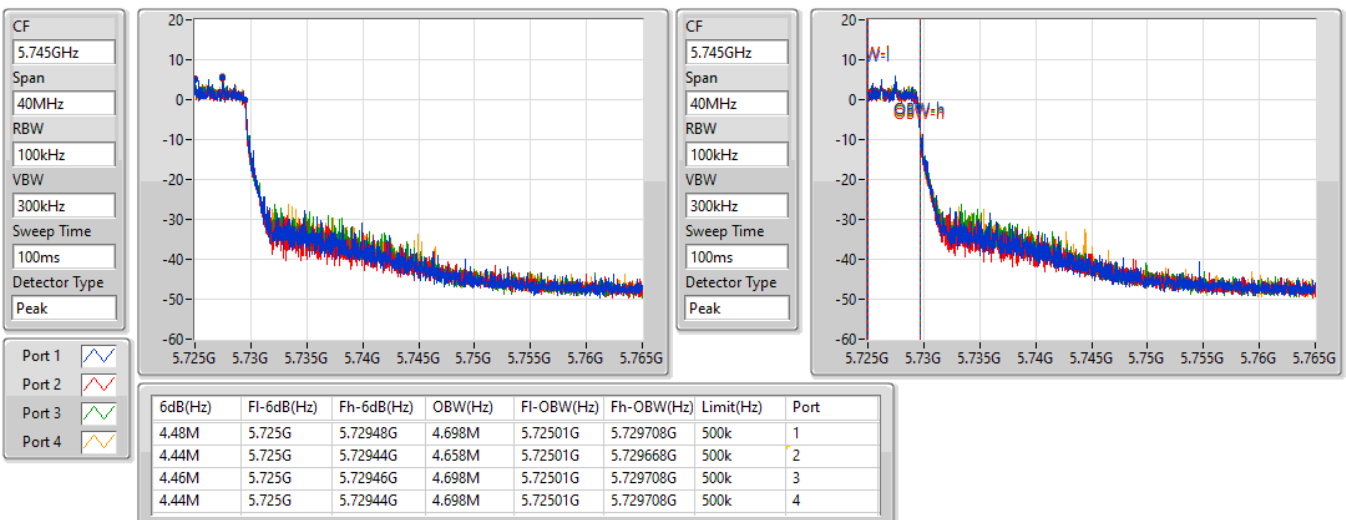


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

30/08/2022

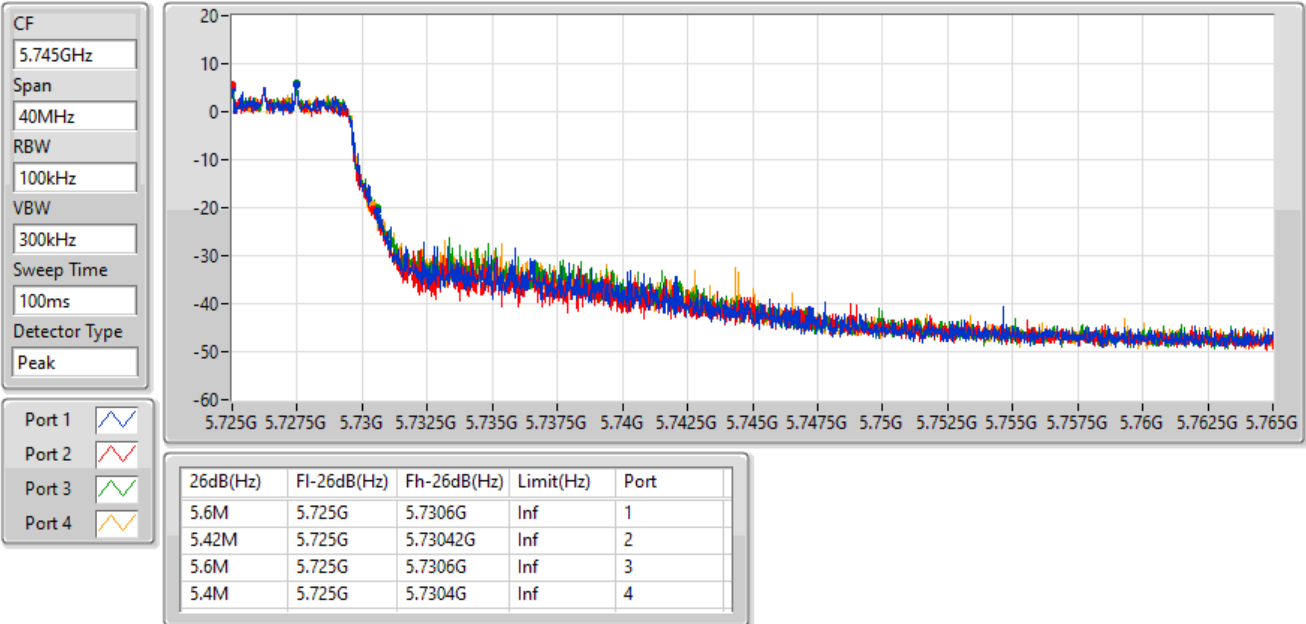

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

30/08/2022

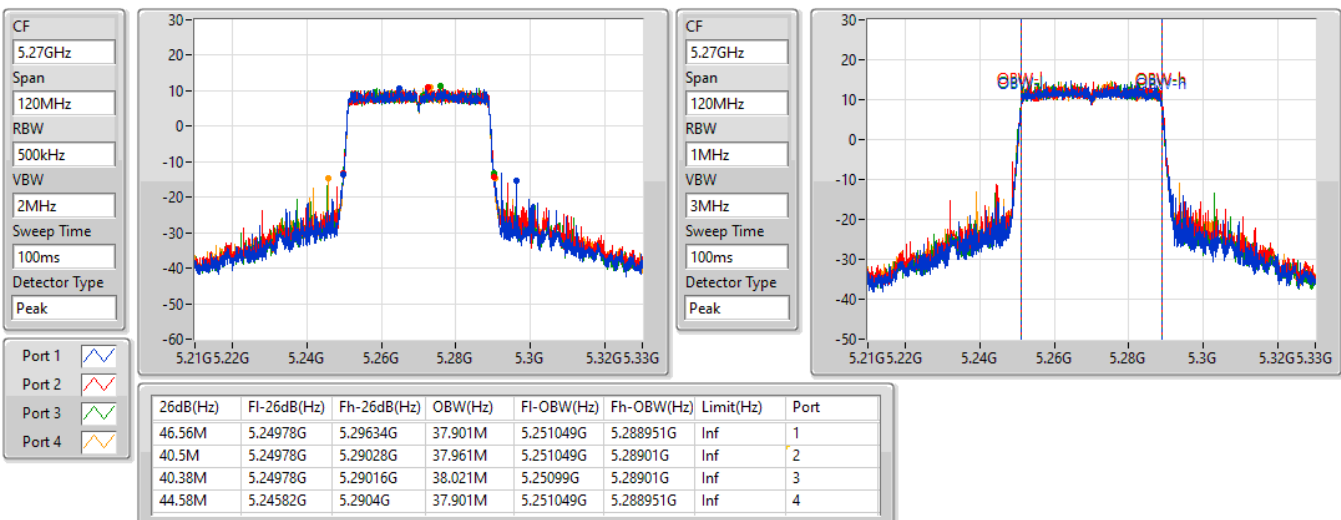


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

30/08/2022

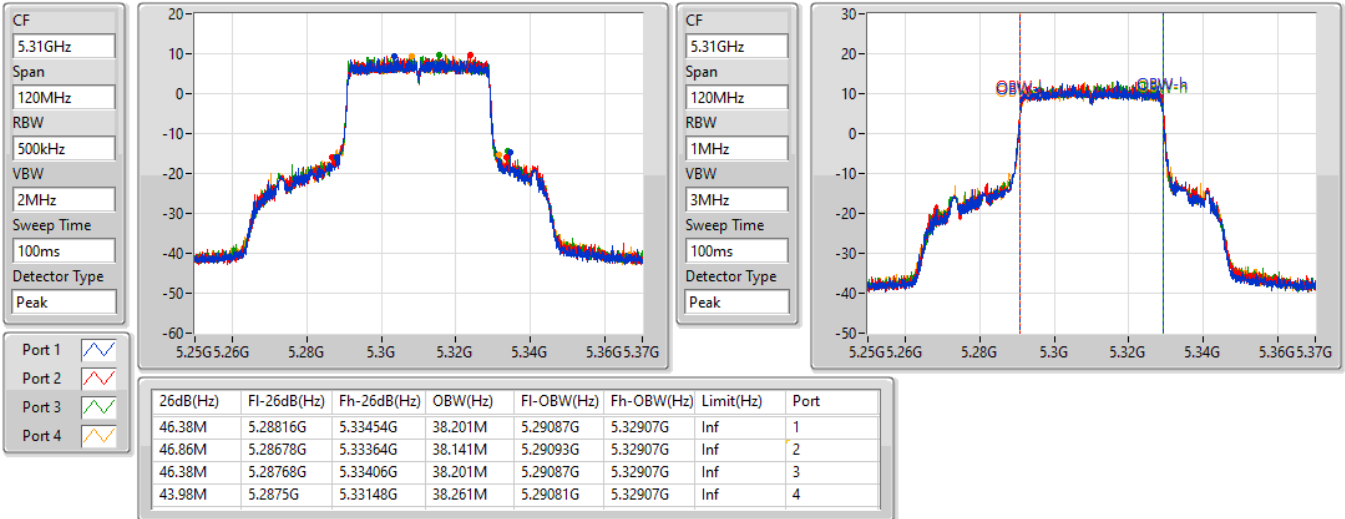

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5270MHz

26/07/2022

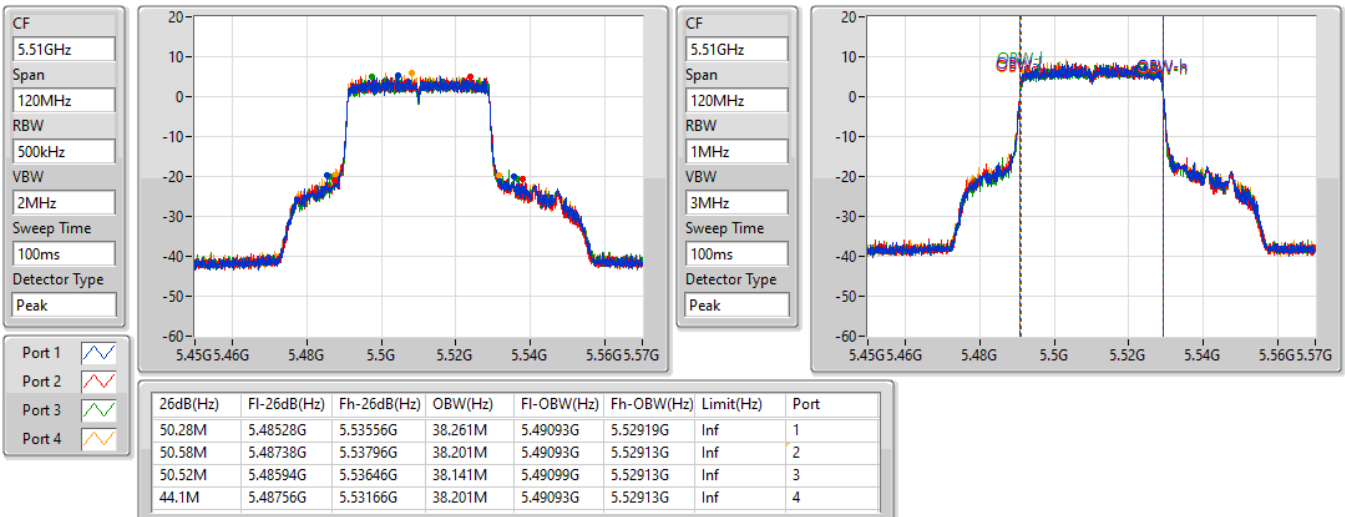


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5310MHz

26/07/2022

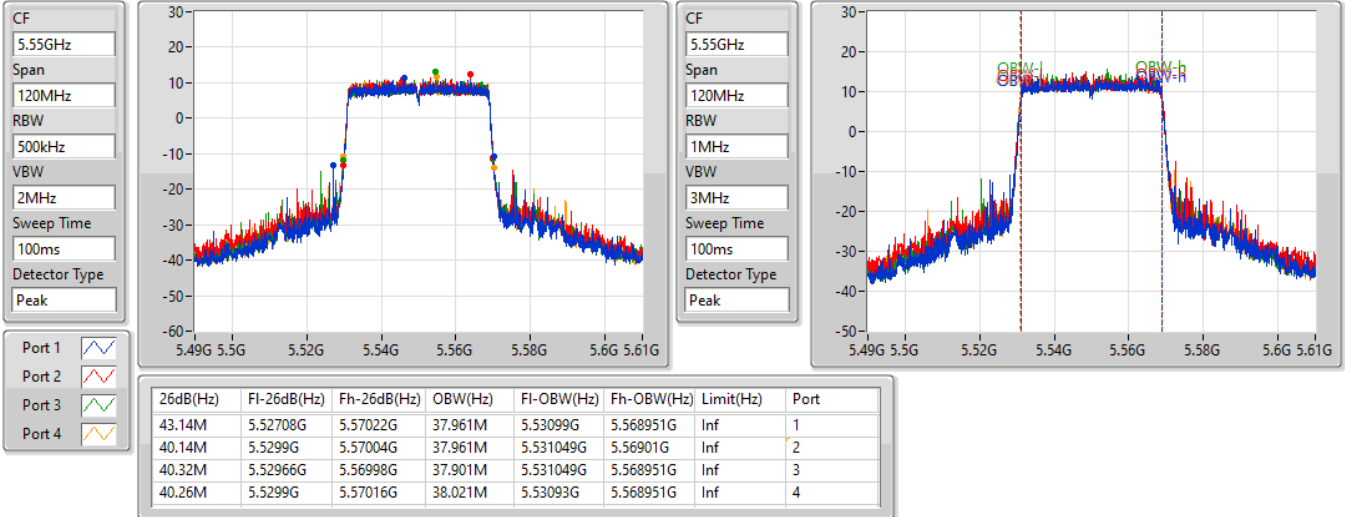

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5510MHz

26/07/2022

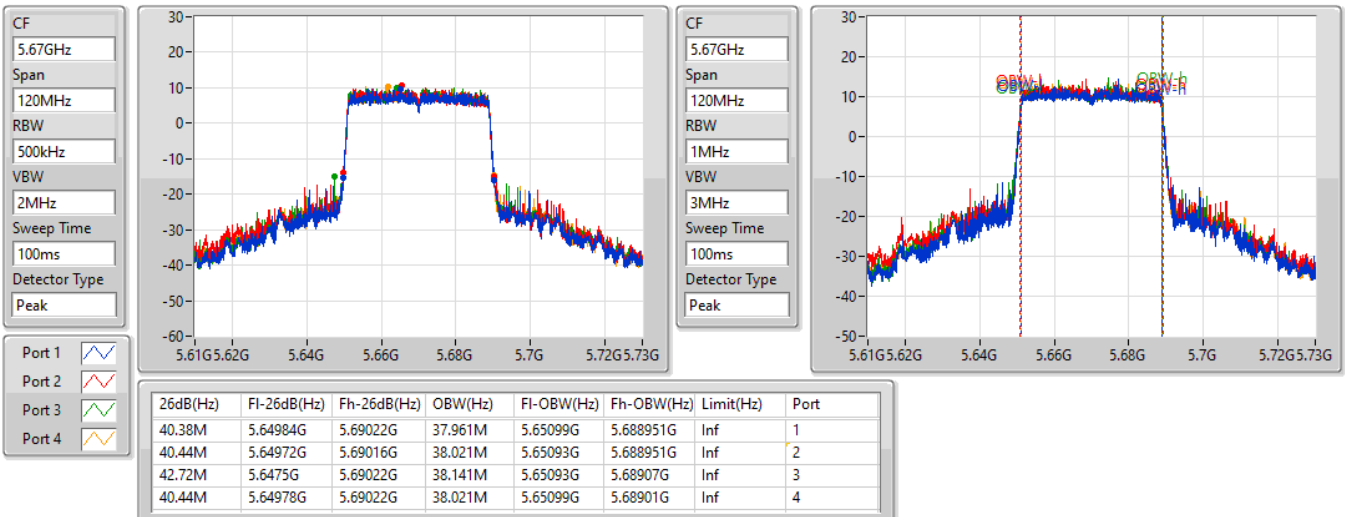


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5550MHz

26/07/2022

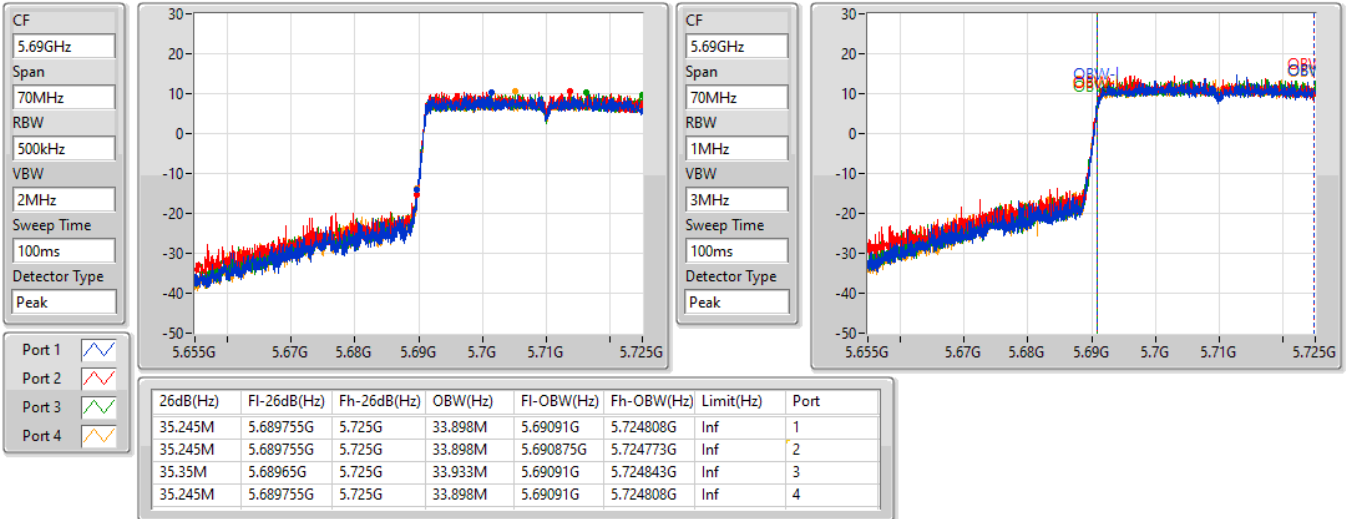

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5670MHz

26/07/2022

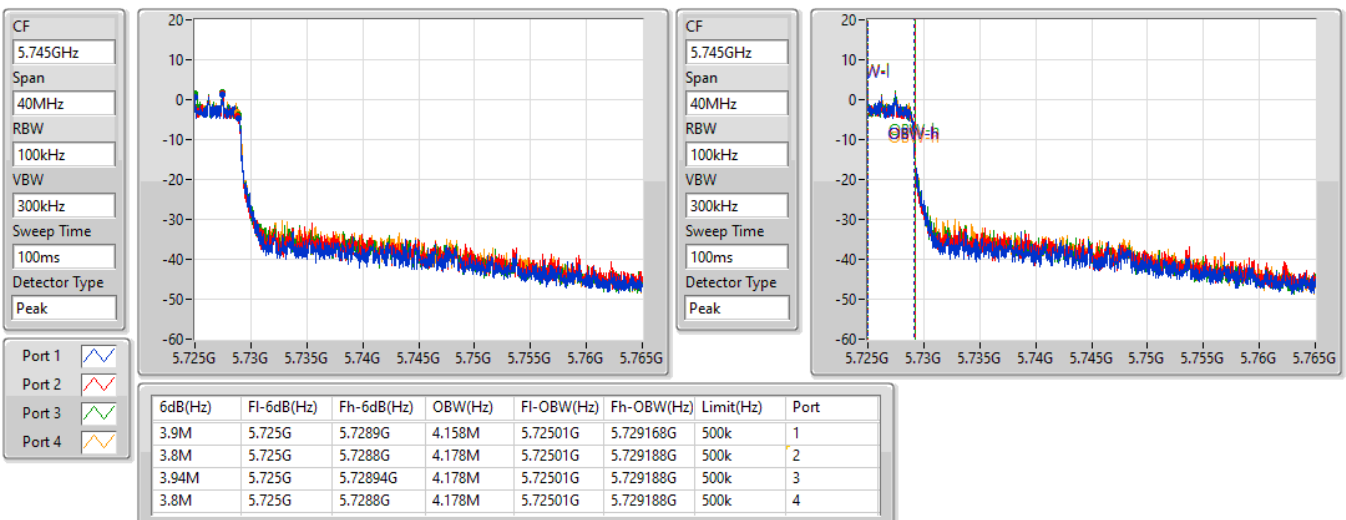


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

27/07/2022


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

27/07/2022

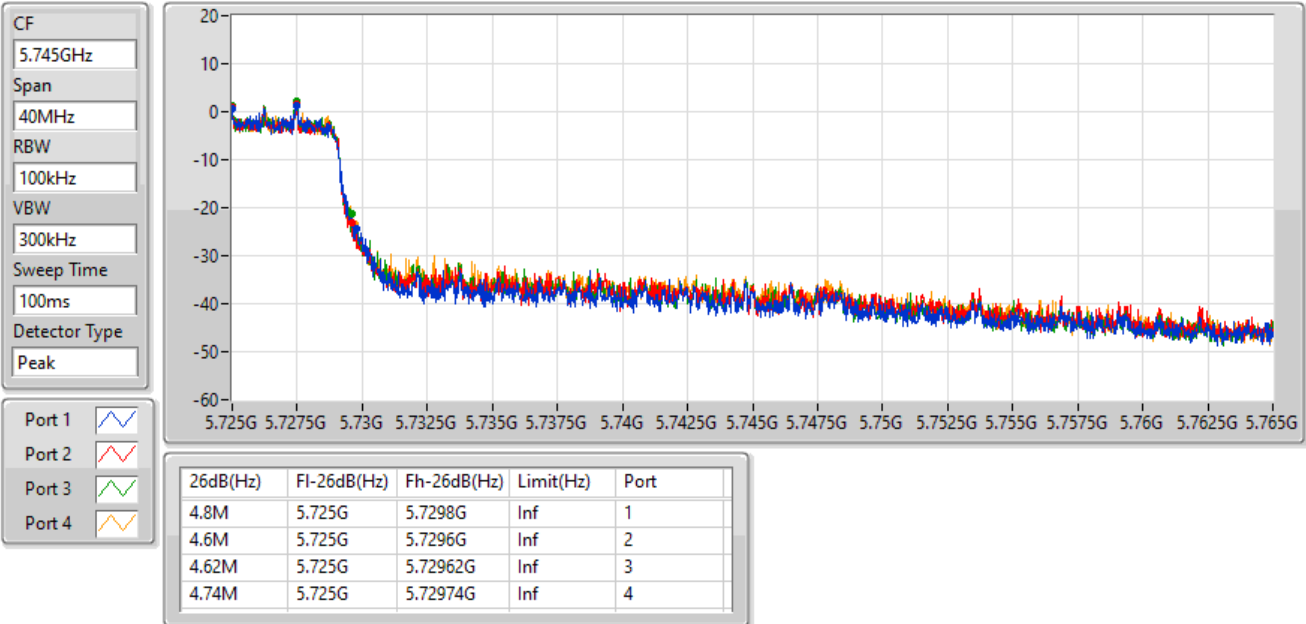


802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

5710MHz Straddle 5.725-5.85GHz

27/07/2022

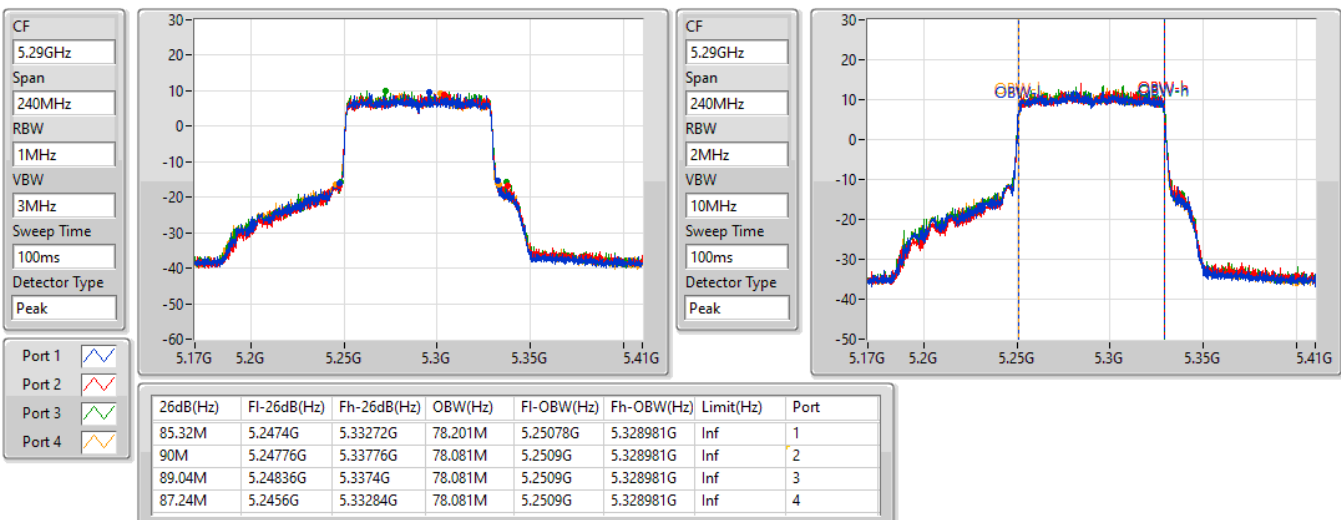


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

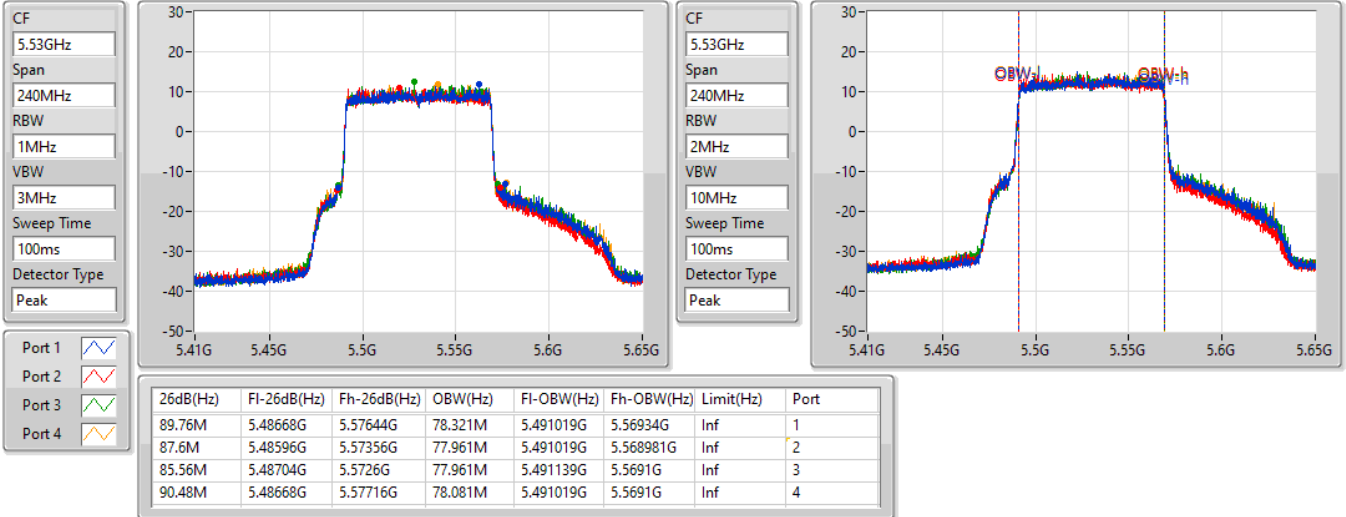
5290MHz

26/07/2022

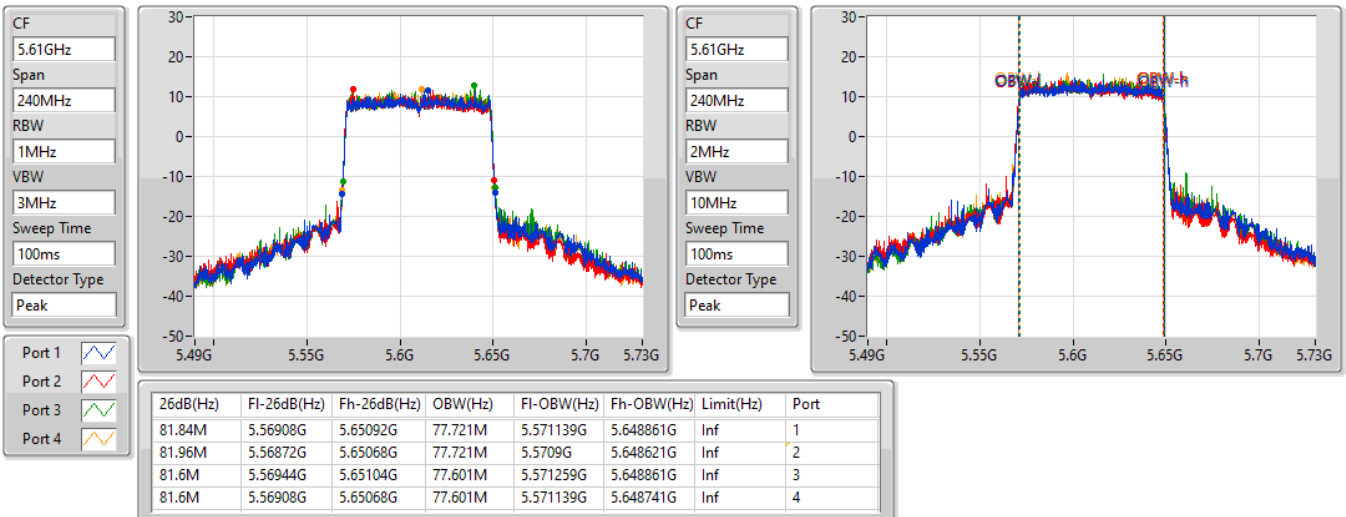


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5530MHz

30/08/2022

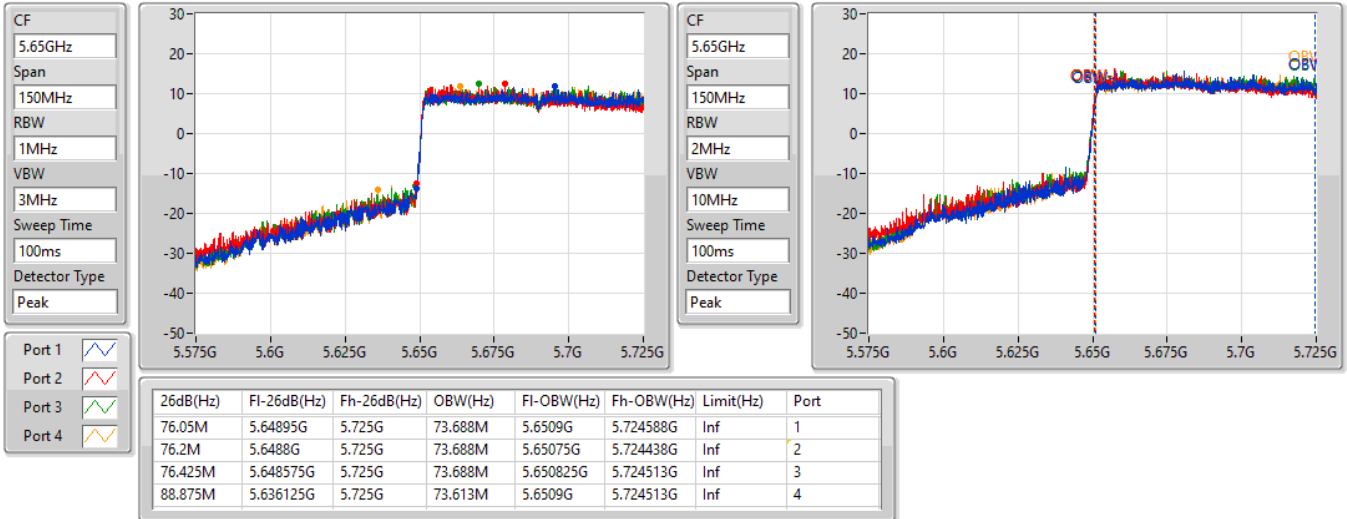

802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5610MHz

26/07/2022

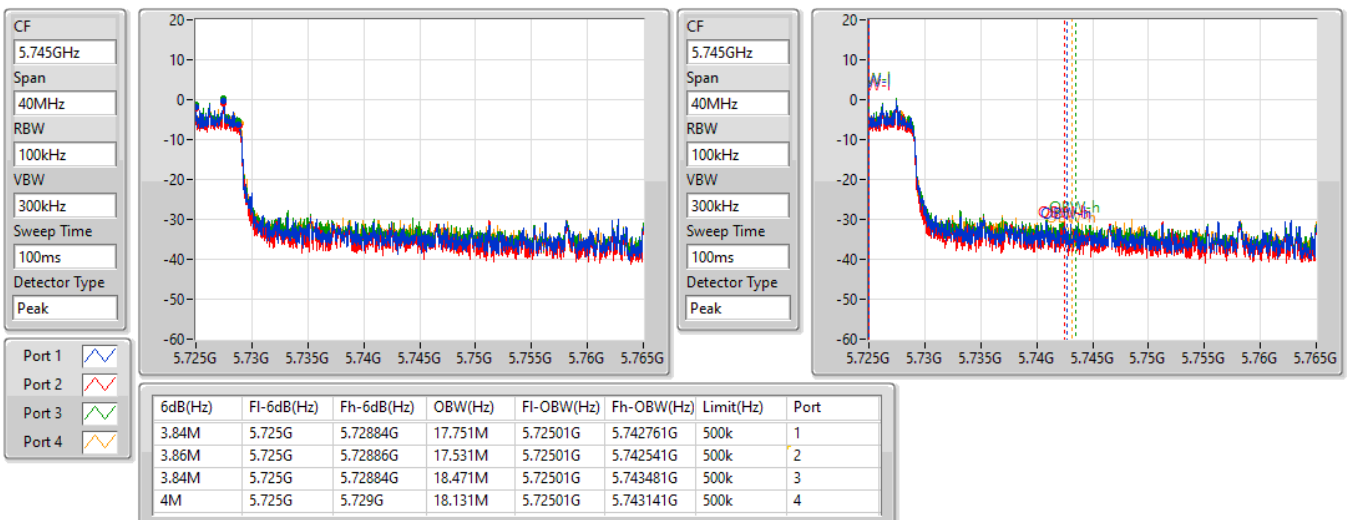


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

27/07/2022

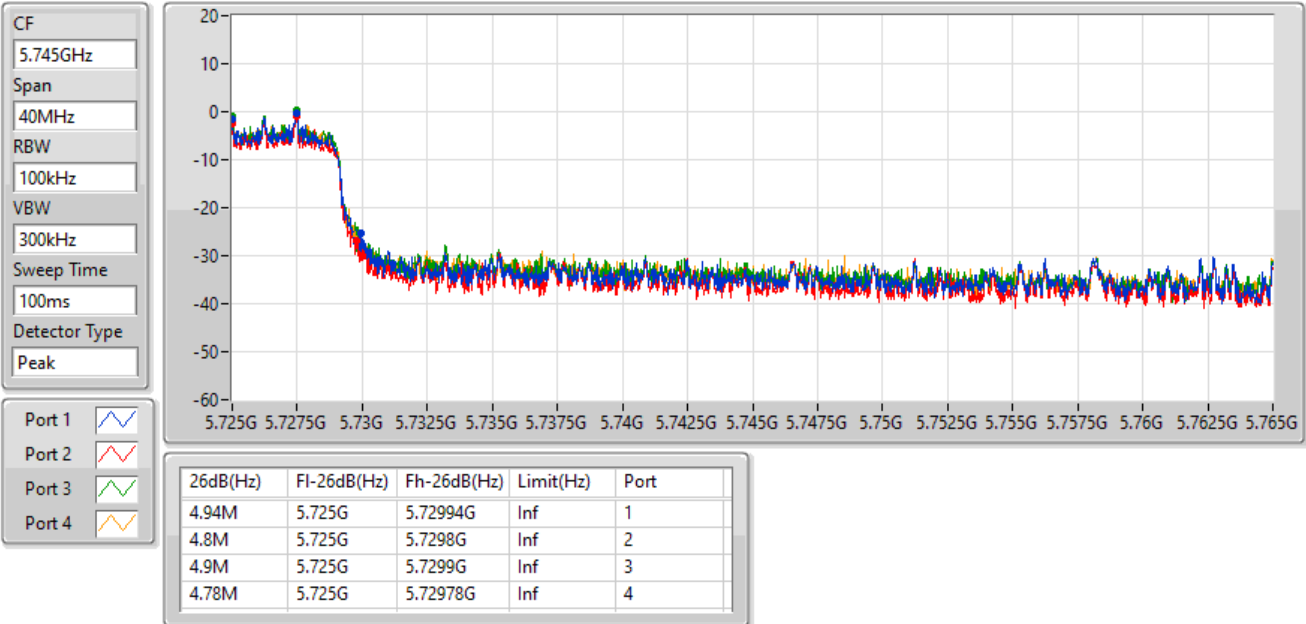

802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

27/07/2022

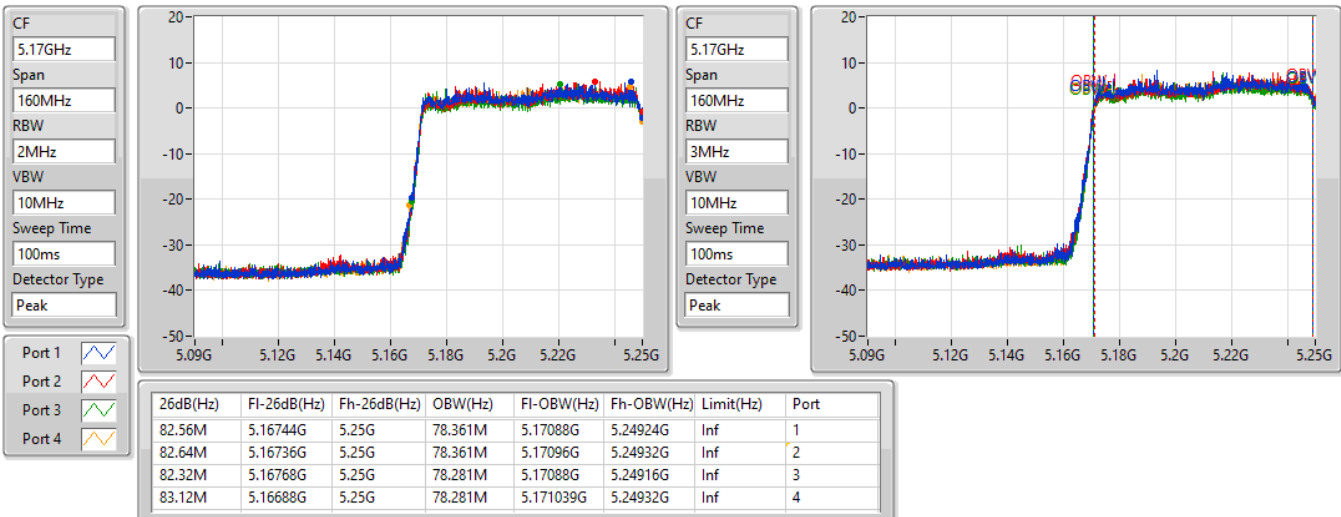


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

27/07/2022

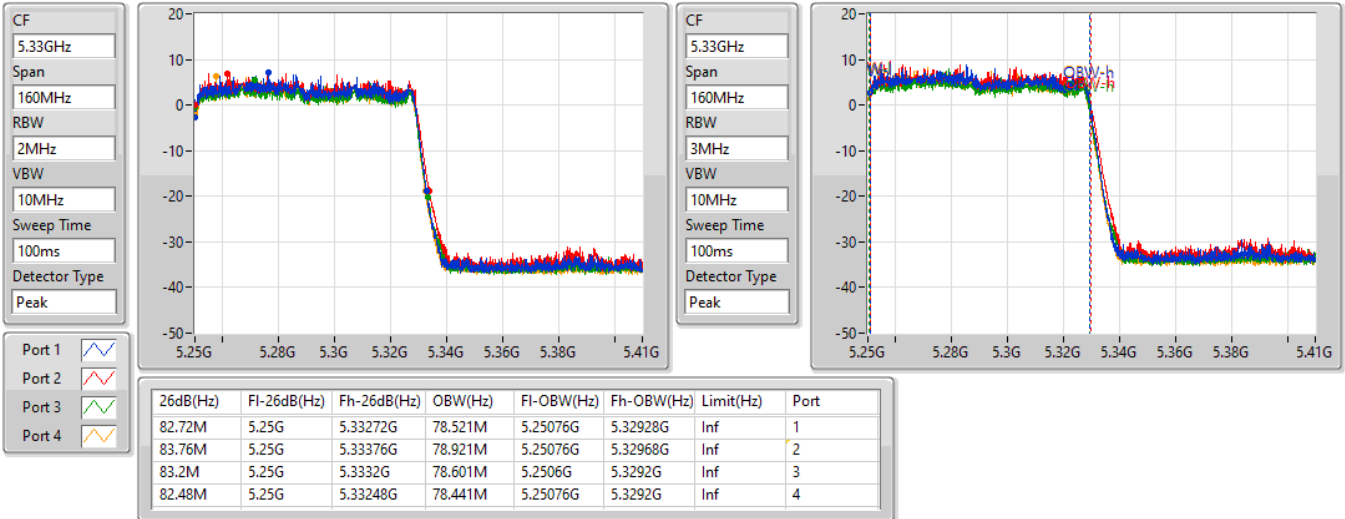

802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

27/07/2022

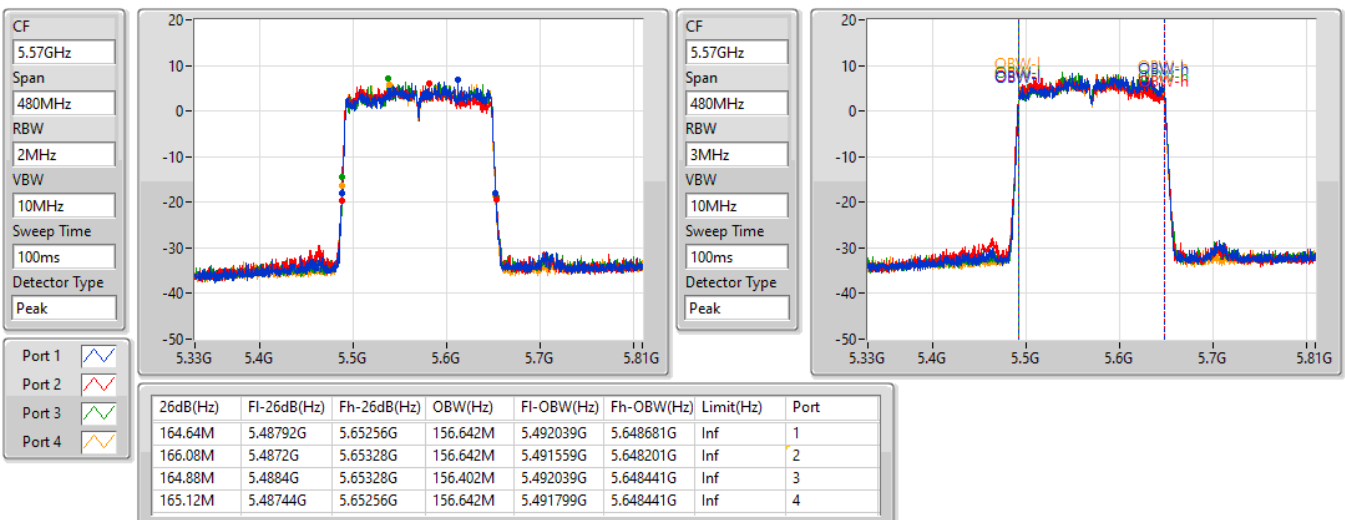


802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

26/07/2022


802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5570MHz

26/07/2022



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	34.23M	17.691M	17M7D1D	26.73M	17.511M
802.11ax HEW20_Nss2,(MCS0)_2TX	44.16M	19.79M	19M8D1D	29.91M	19.28M
802.11ax HEW40_Nss2,(MCS0)_2TX	77.64M	39.46M	39M5D1D	42.48M	38.141M
802.11ax HEW80_Nss2,(MCS0)_2TX	86.76M	77.961M	78M0D1D	85.68M	77.841M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	27.15M	17.451M	17M5D1D	15.6M	13.493M
802.11ax HEW20_Nss2,(MCS0)_2TX	37.95M	19.46M	19M5D1D	21.72M	14.813M
802.11ax HEW40_Nss2,(MCS0)_2TX	66.6M	38.501M	38M5D1D	40.44M	34.318M
802.11ax HEW80_Nss2,(MCS0)_2TX	104.04M	78.321M	78M3D1D	84.12M	74.288M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.16M	4.258M	4M26D1D	3.14M	4.238M
802.11ax HEW20_Nss2,(MCS0)_2TX	4.5M	9.335M	9M34D1D	4.44M	8.736M
802.11ax HEW40_Nss2,(MCS0)_2TX	4M	21.449M	21M4D1D	3.9M	21.349M
802.11ax HEW80_Nss2,(MCS0)_2TX	3.88M	33.063M	33M1D1D	3.8M	32.404M

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

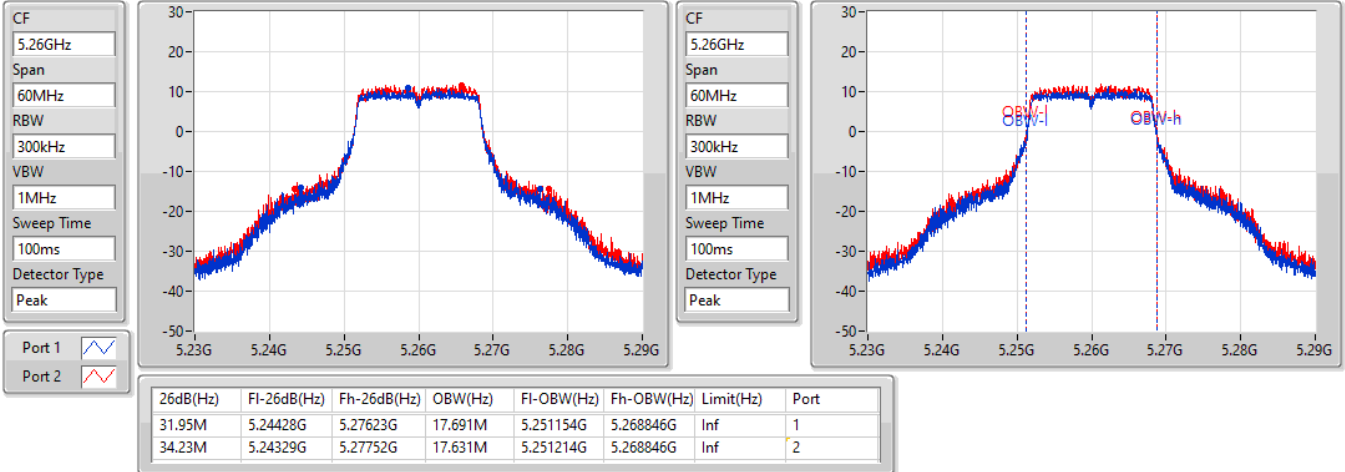
Result

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	-	-	-	-	-	-
5260MHz	Pass	Inf	31.95M	17.691M	34.23M	17.631M
5300MHz	Pass	Inf	30.48M	17.601M	33.45M	17.661M
5320MHz	Pass	Inf	26.73M	17.631M	28.44M	17.511M
5500MHz	Pass	Inf	23.97M	17.451M	24.45M	17.241M
5580MHz	Pass	Inf	27.15M	17.391M	25.71M	17.121M
5700MHz	Pass	Inf	21.63M	17.121M	21.69M	16.912M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.735M	13.643M	15.6M	13.493M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	4.258M	3.16M	4.238M
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	44.16M	19.61M	38.73M	19.79M
5300MHz	Pass	Inf	40.95M	19.52M	42.81M	19.76M
5320MHz	Pass	Inf	29.91M	19.28M	30.36M	19.28M
5500MHz	Pass	Inf	28.32M	19.28M	28.8M	19.28M
5580MHz	Pass	Inf	37.95M	19.46M	36.03M	19.46M
5700MHz	Pass	Inf	21.72M	19.13M	21.84M	19.13M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	22.47M	14.873M	22.14M	14.813M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	9.335M	4.44M	8.736M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	75.24M	39.46M	77.64M	39.1M
5310MHz	Pass	Inf	42.48M	38.141M	44.16M	38.201M
5510MHz	Pass	Inf	42.36M	38.201M	43.74M	38.081M
5550MHz	Pass	Inf	66.6M	38.501M	55.08M	38.441M
5670MHz	Pass	Inf	40.56M	38.081M	40.44M	38.081M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	52.85M	34.598M	51.905M	34.318M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4M	21.449M	3.9M	21.349M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	85.68M	77.961M	86.76M	77.841M
5530MHz	Pass	Inf	86.28M	77.961M	84.12M	77.961M
5610MHz	Pass	Inf	104.04M	78.321M	93.6M	78.201M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	97.65M	74.438M	95.025M	74.288M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	32.404M	3.88M	33.063M

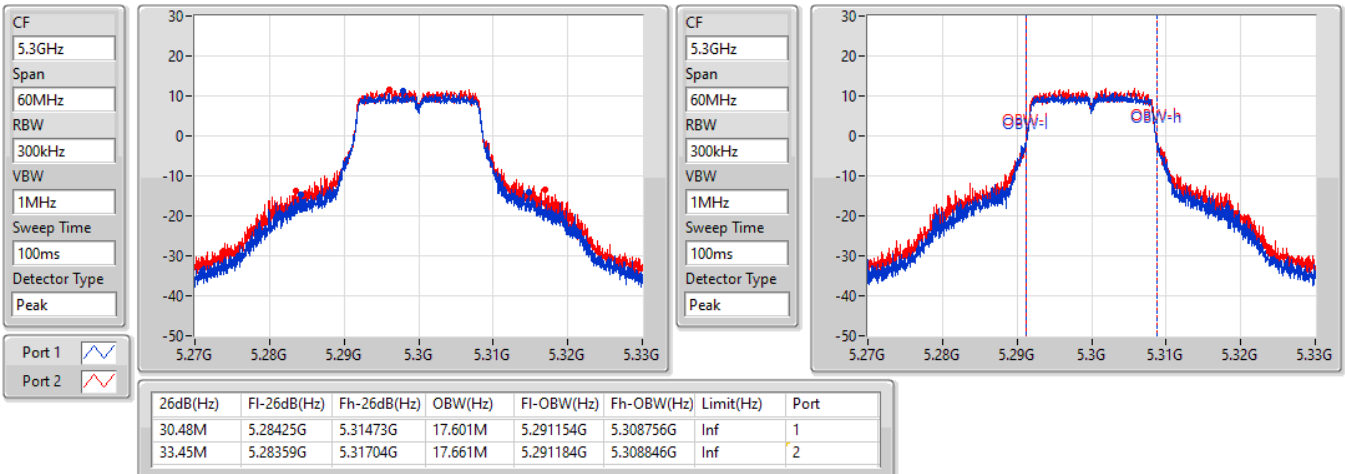
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

29/07/2022

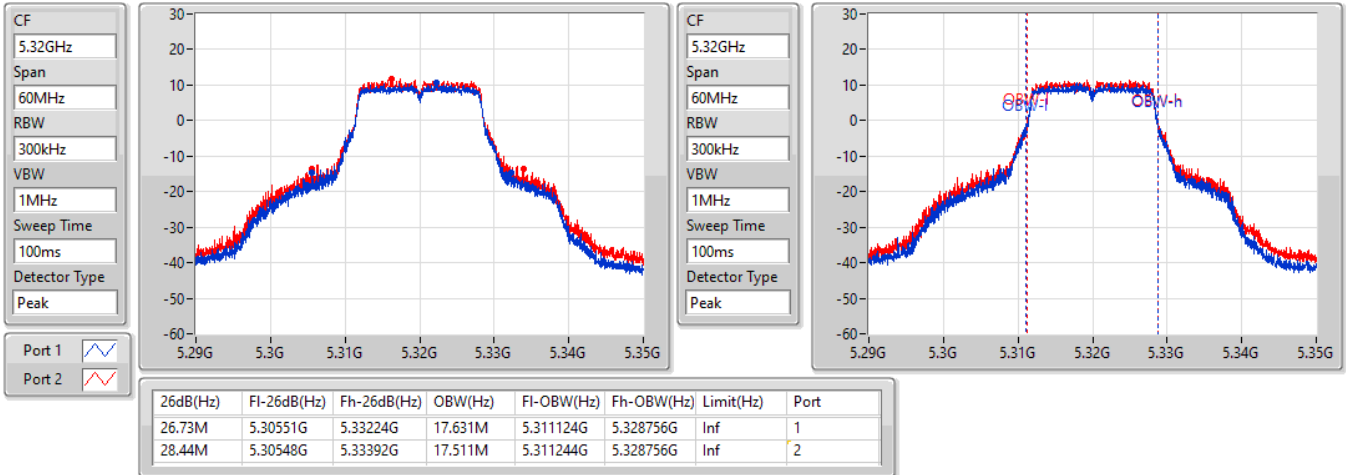

802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

29/07/2022

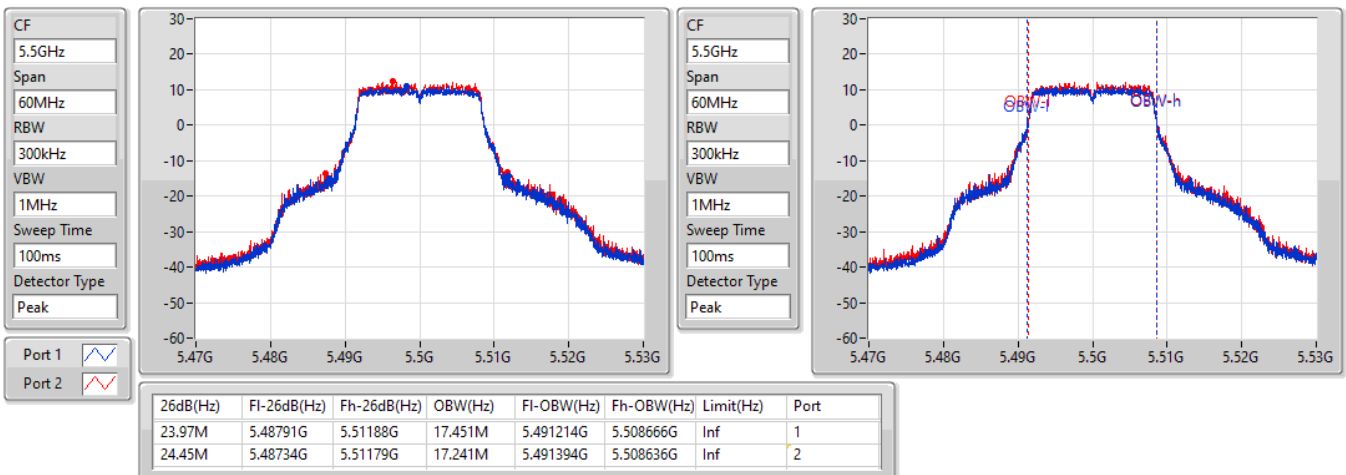


802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

29/07/2022


802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

29/07/2022

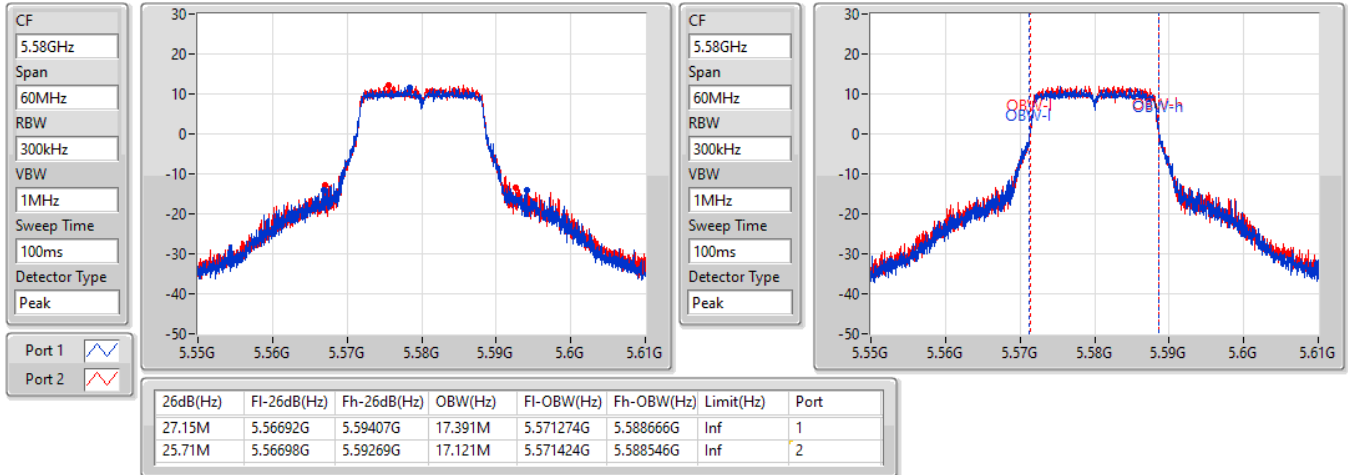


802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

29/07/2022

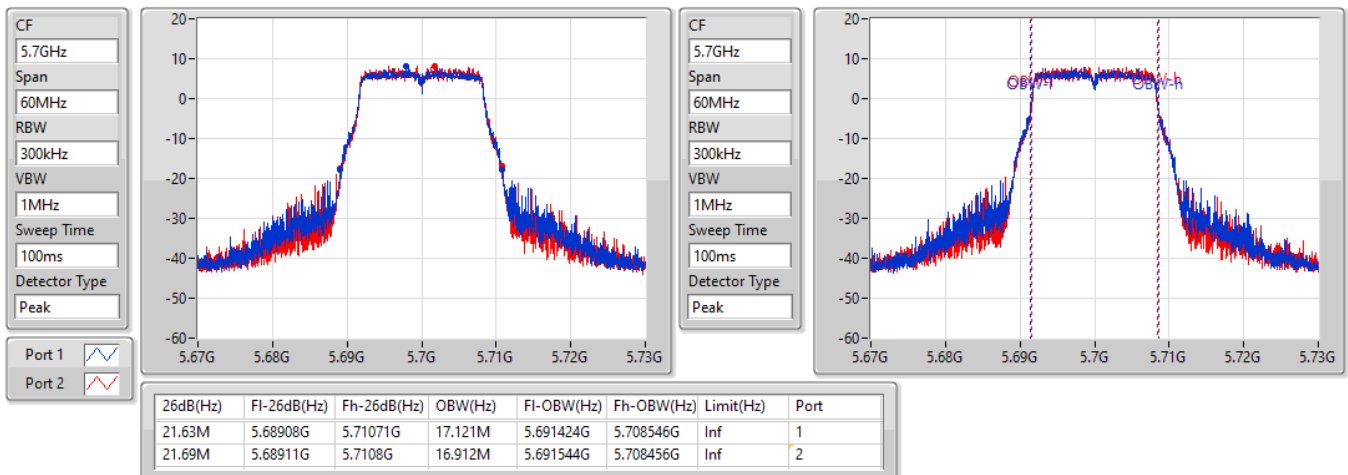


802.11a_Nss1,(6Mbps)_2TX

EBW

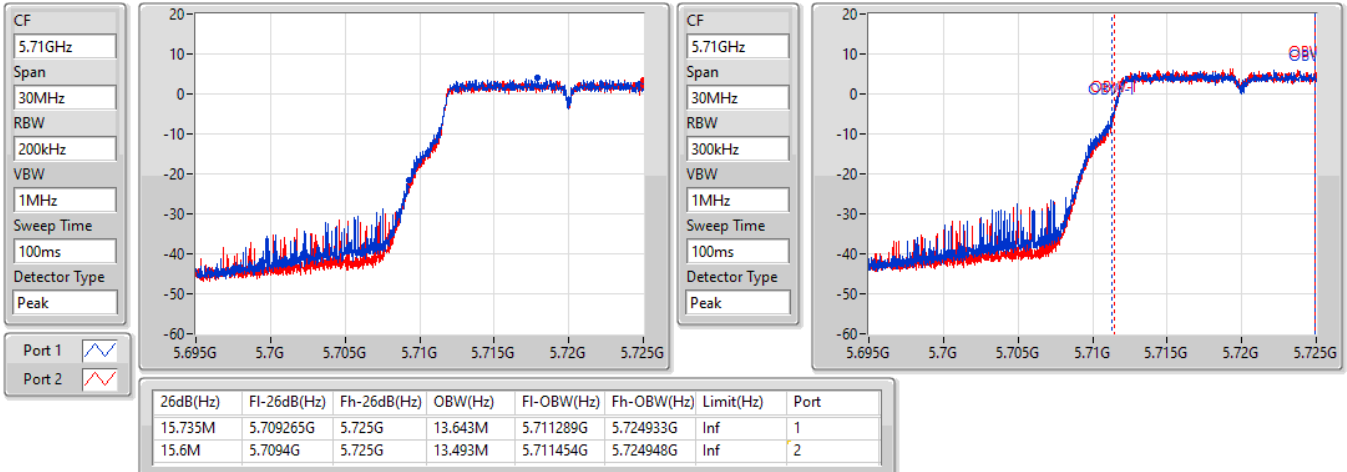
5700MHz

29/07/2022

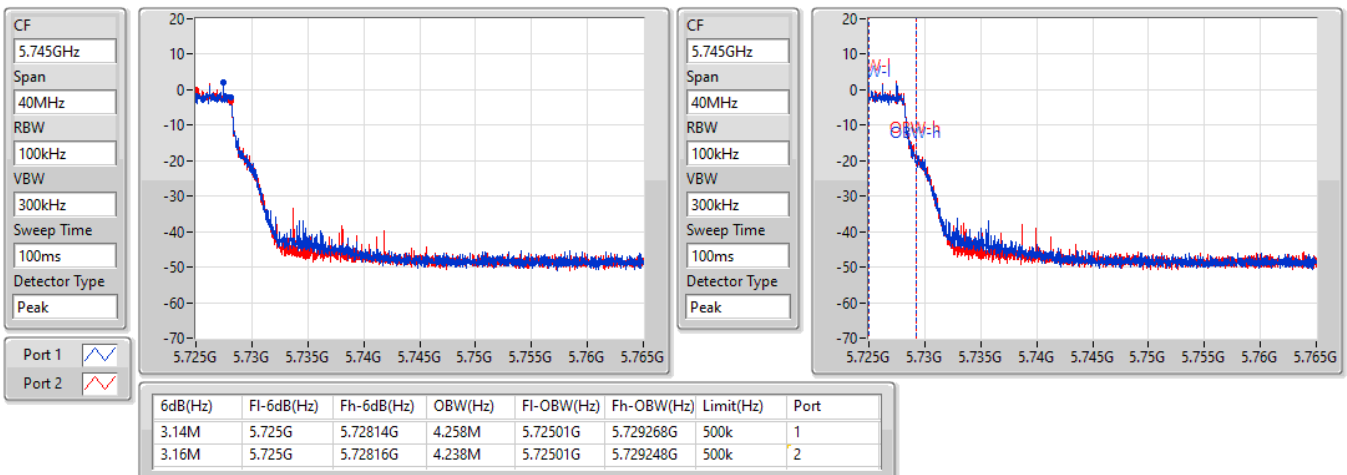


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

29/07/2022


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

29/07/2022

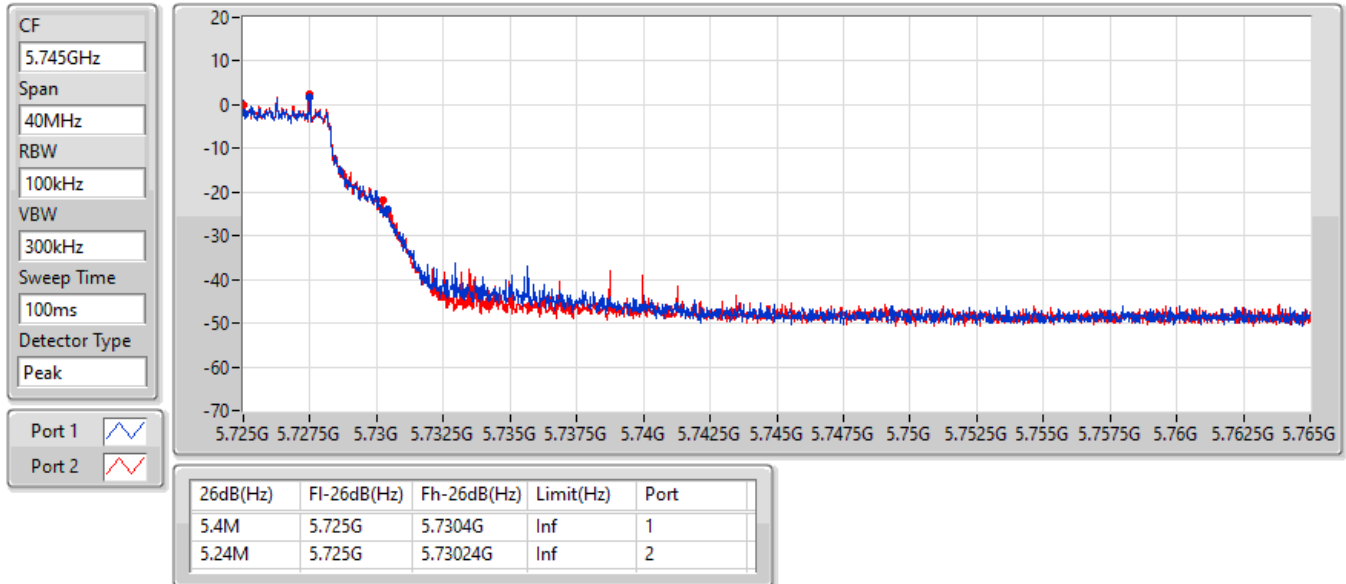


802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

29/07/2022

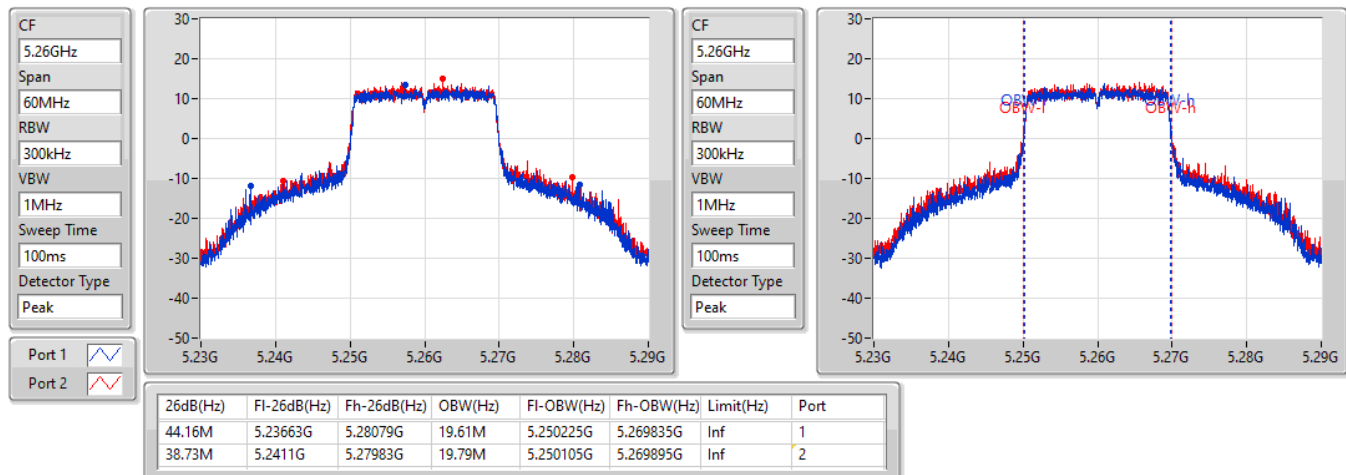


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

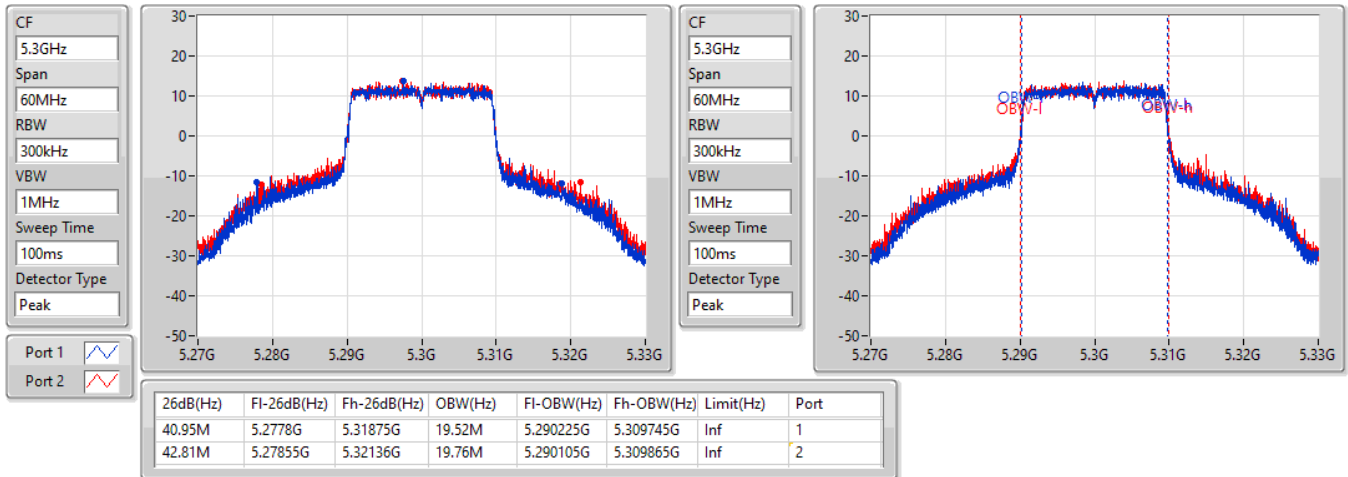
5260MHz

29/07/2022

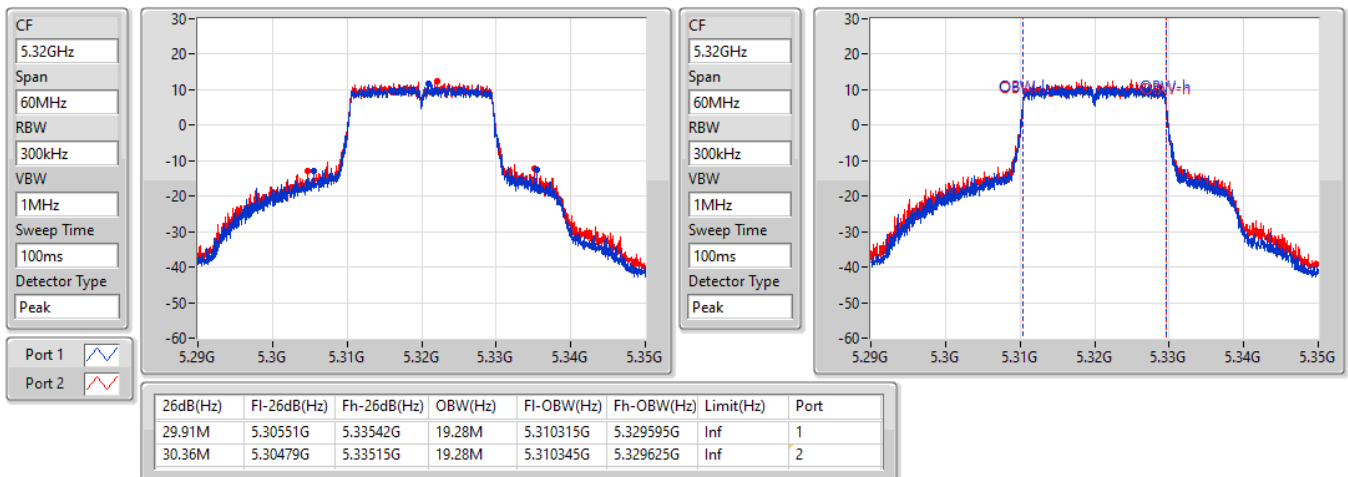


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5300MHz

29/07/2022

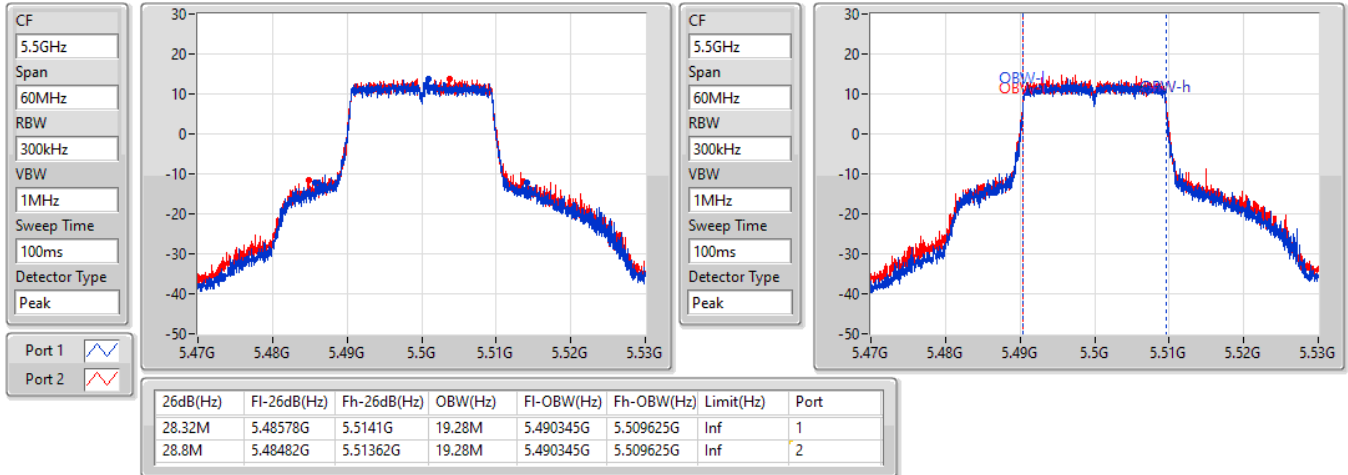

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5320MHz

29/07/2022

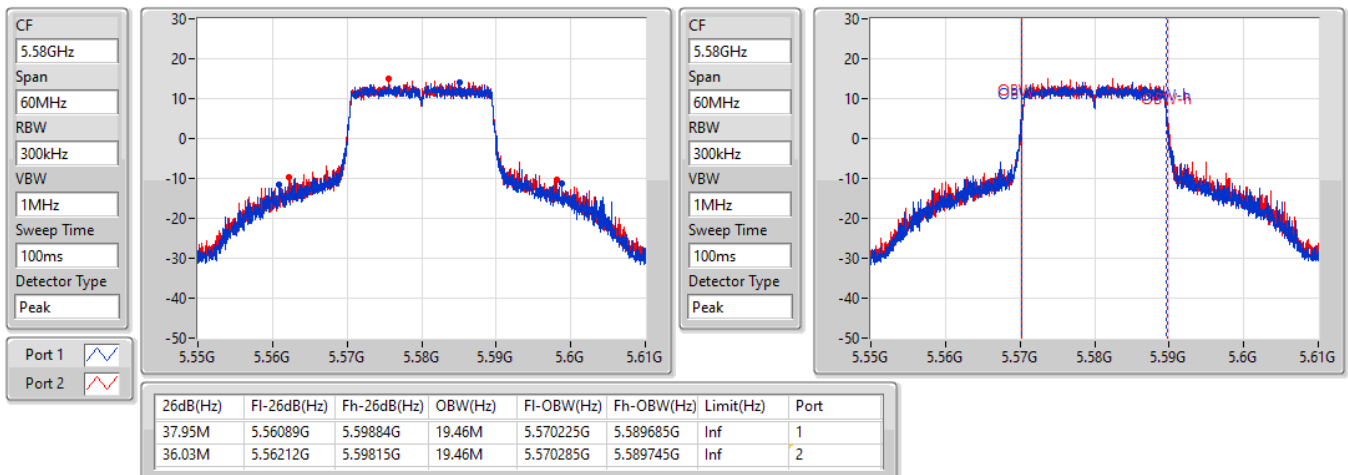


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5500MHz

29/07/2022

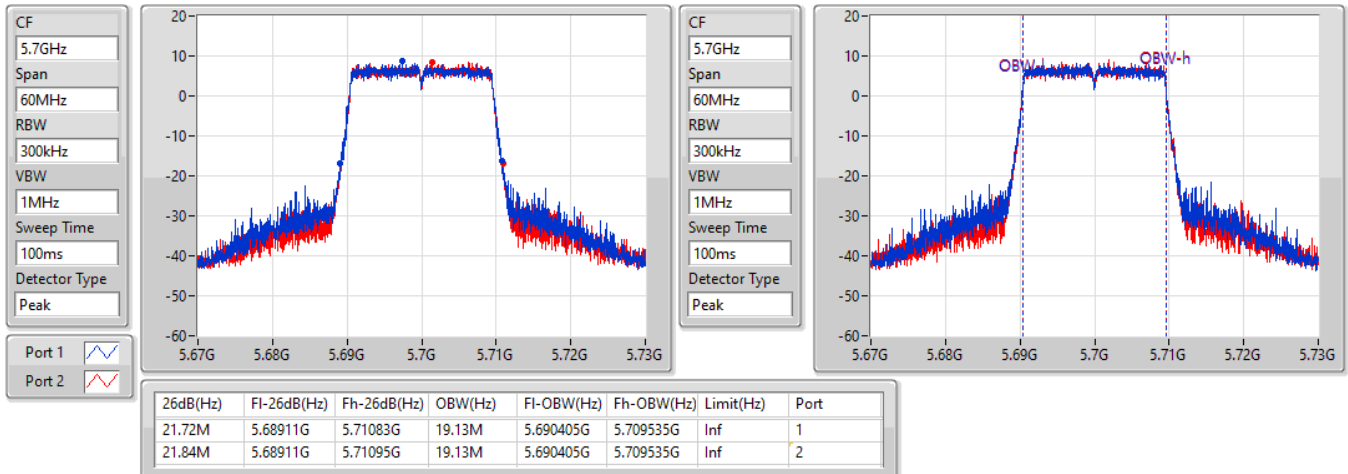

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5580MHz

29/07/2022

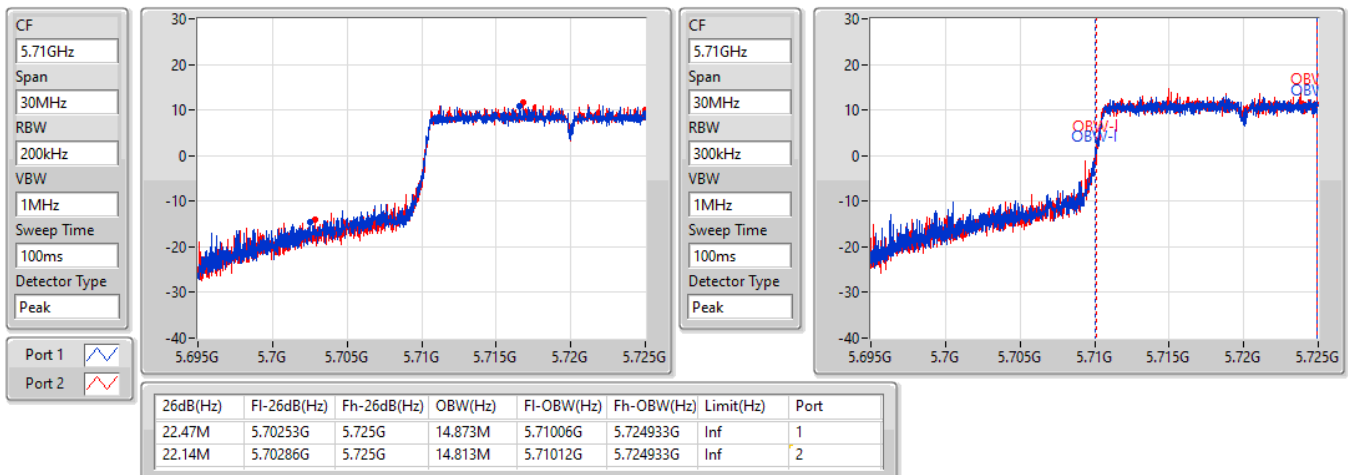


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5700MHz

29/07/2022

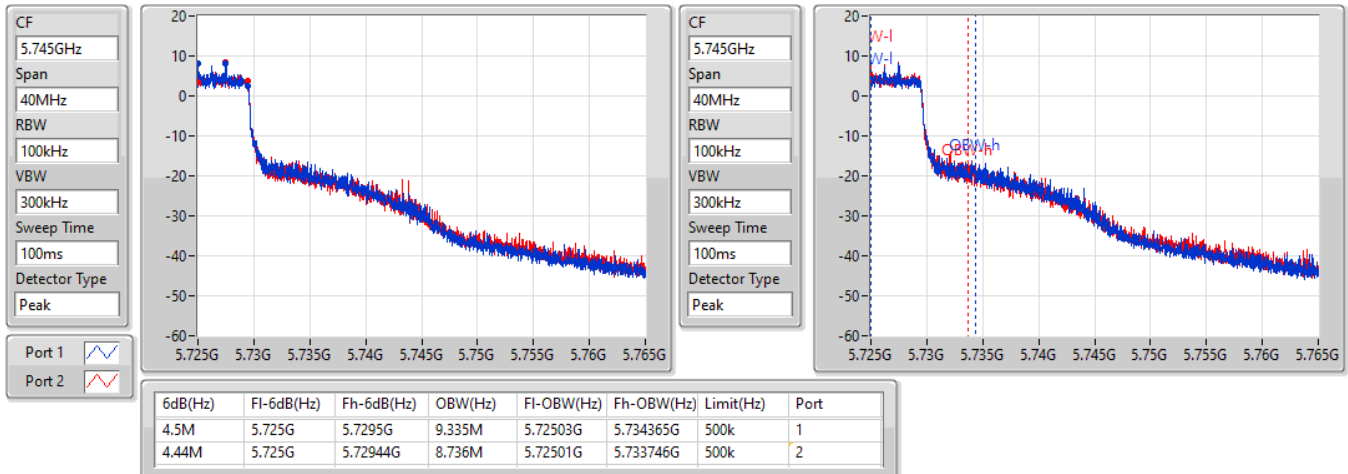

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

30/08/2022

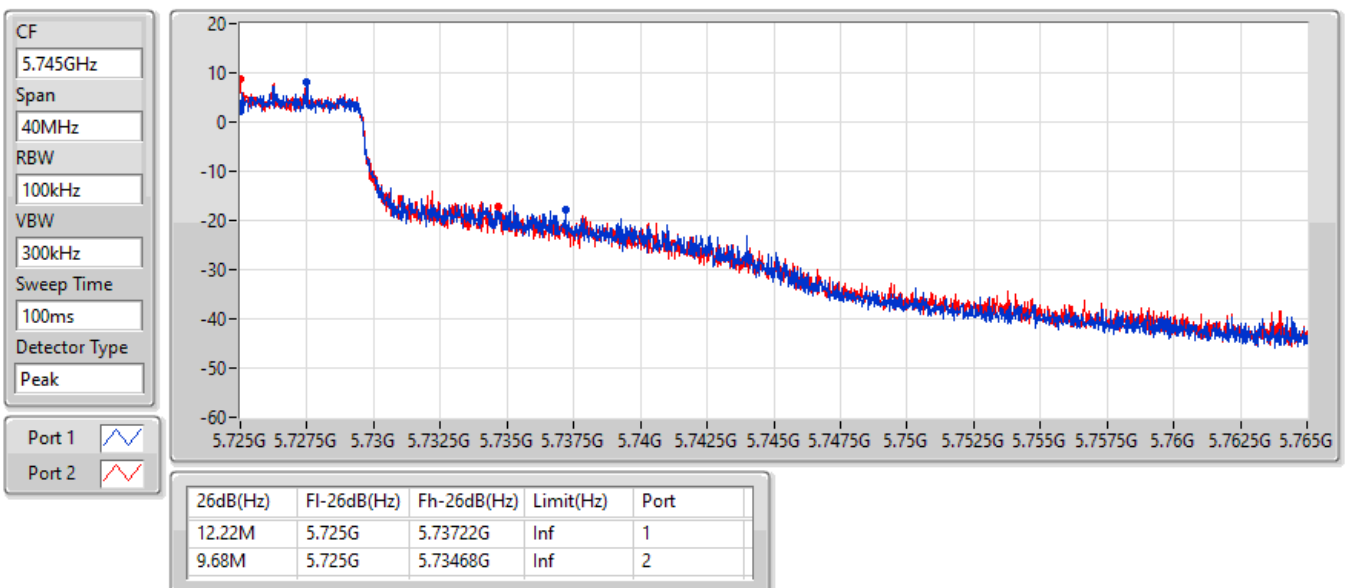


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

30/08/2022


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

30/08/2022

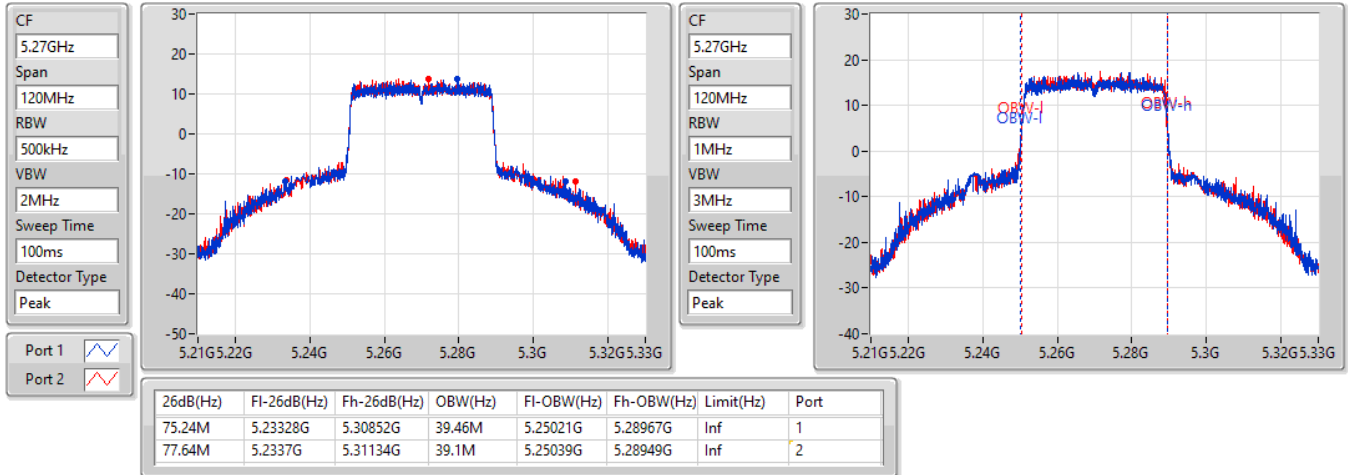


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5270MHz

29/07/2022

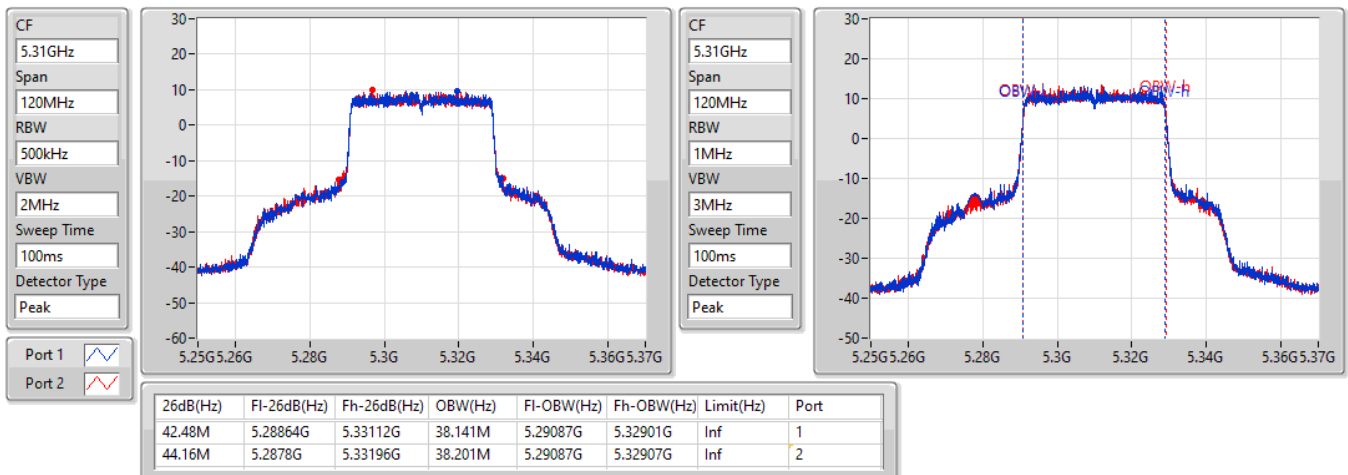


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

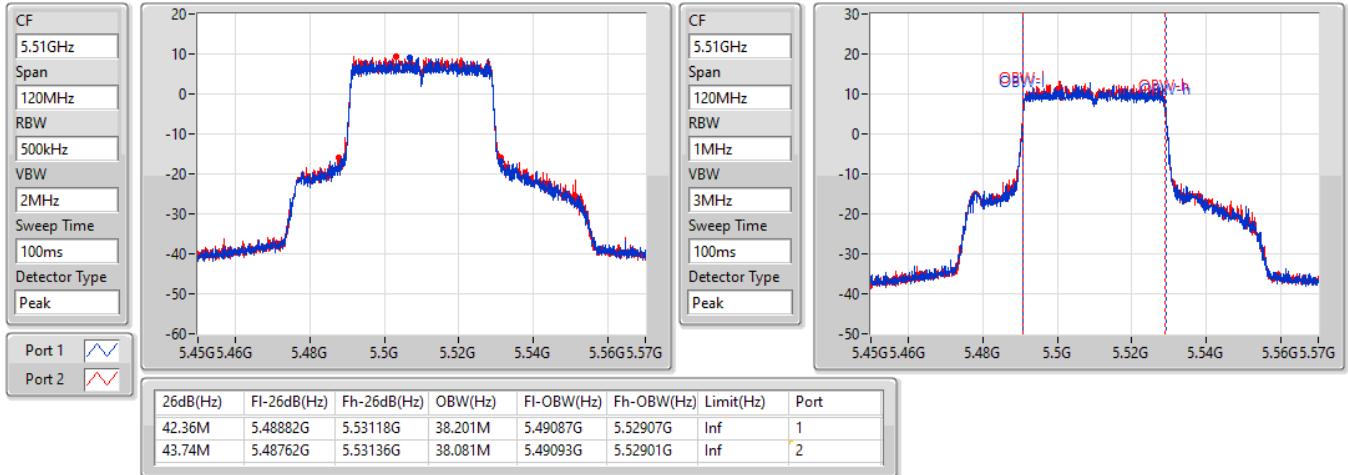
5310MHz

29/07/2022

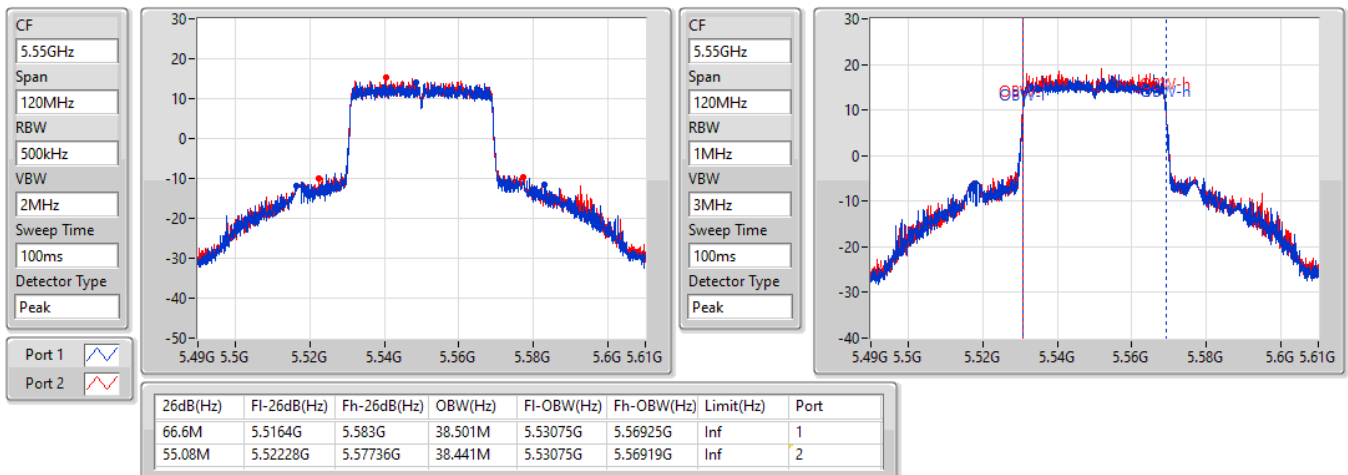


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5510MHz

29/07/2022

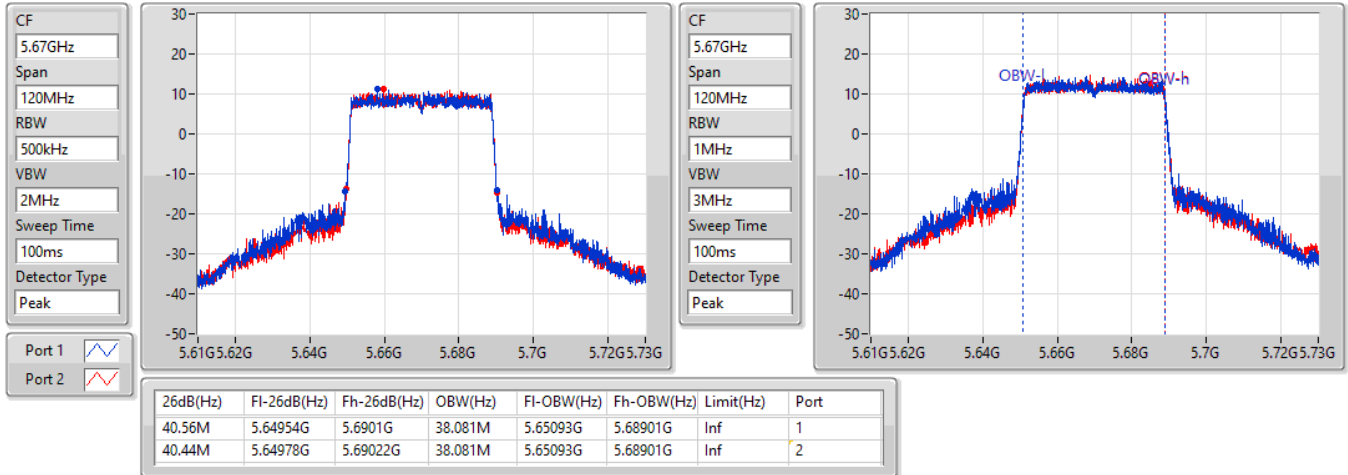

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5550MHz

29/07/2022

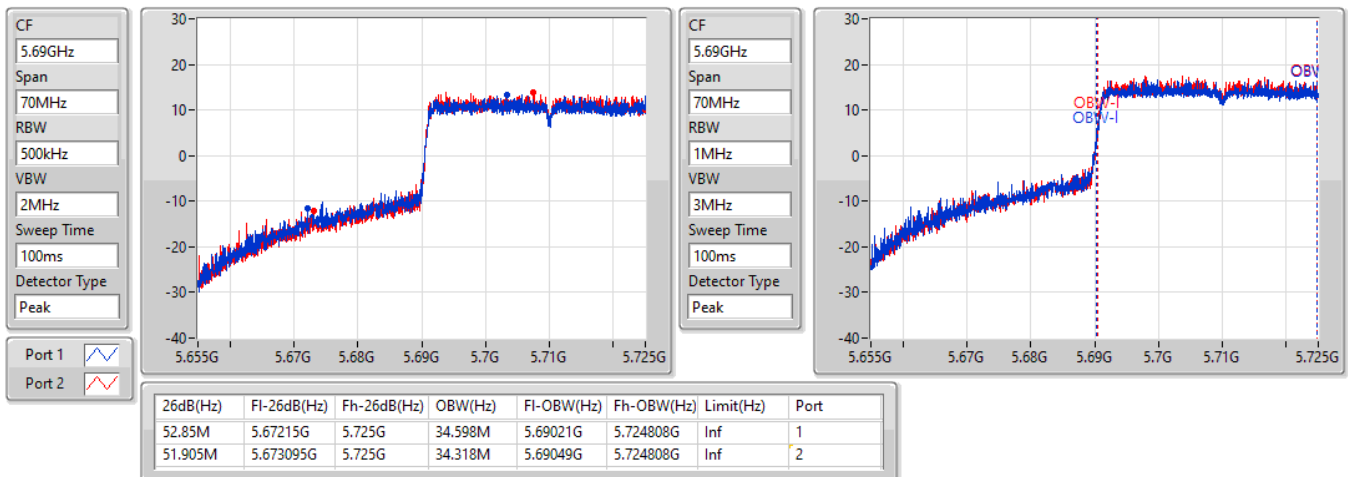


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5670MHz

29/07/2022

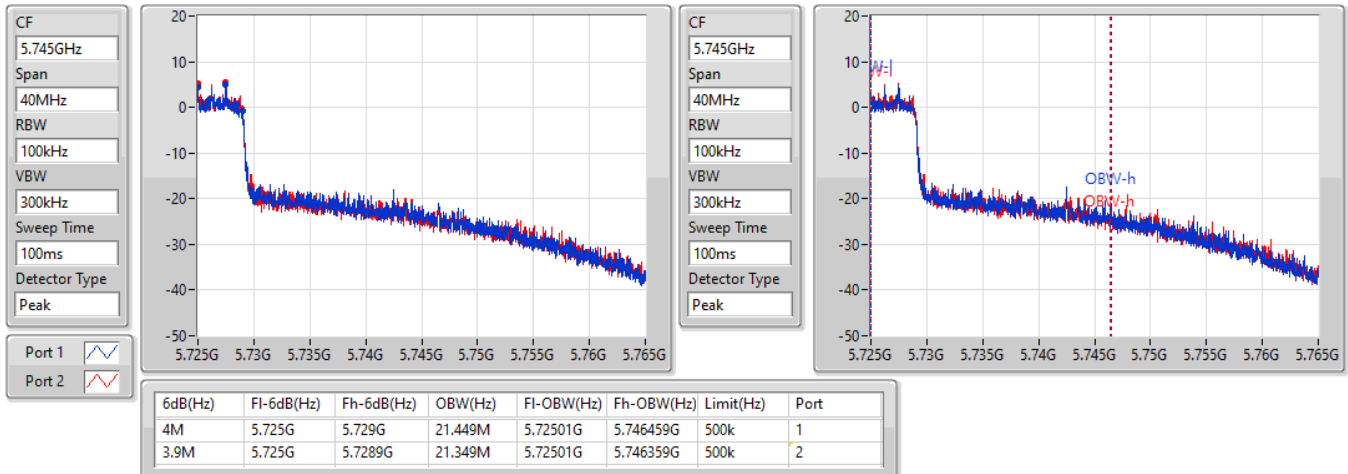

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

30/08/2022

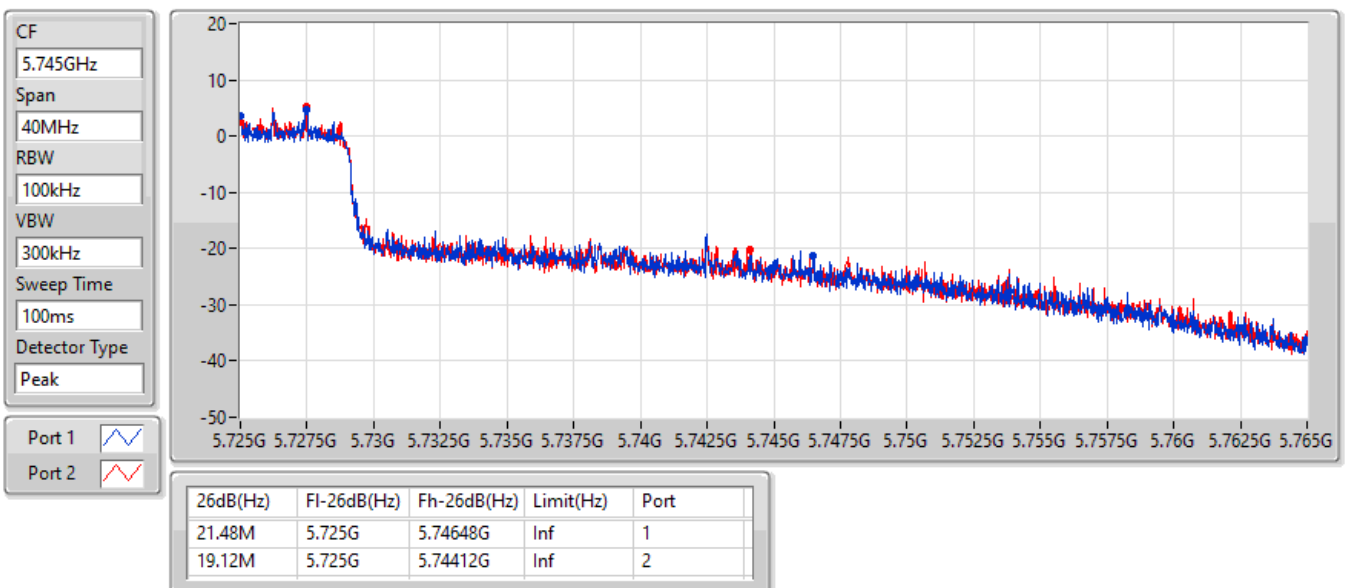


802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

30/08/2022

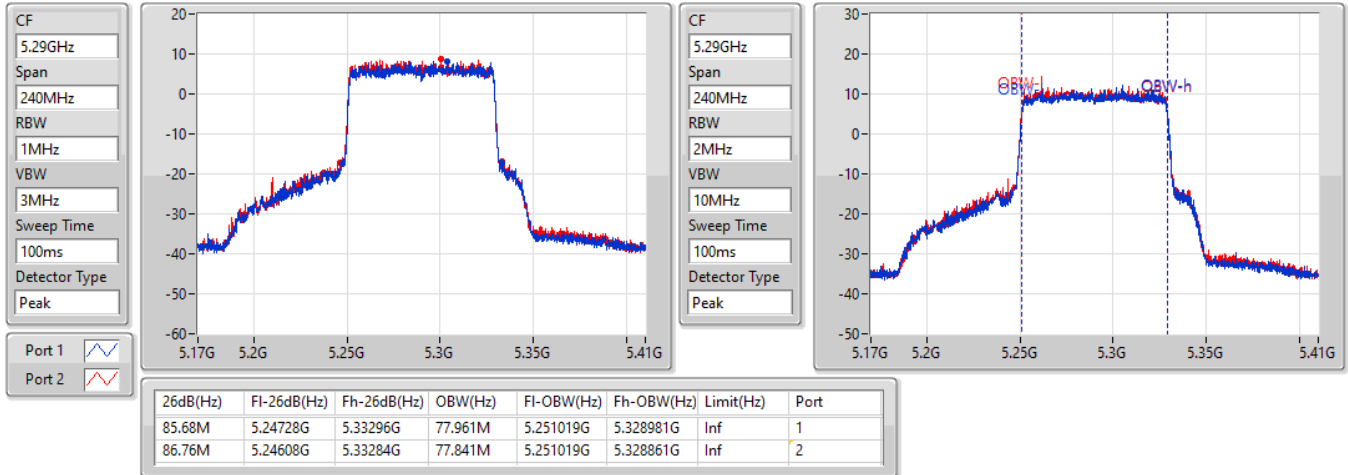

802.11ax HEW40_Nss2,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

30/08/2022

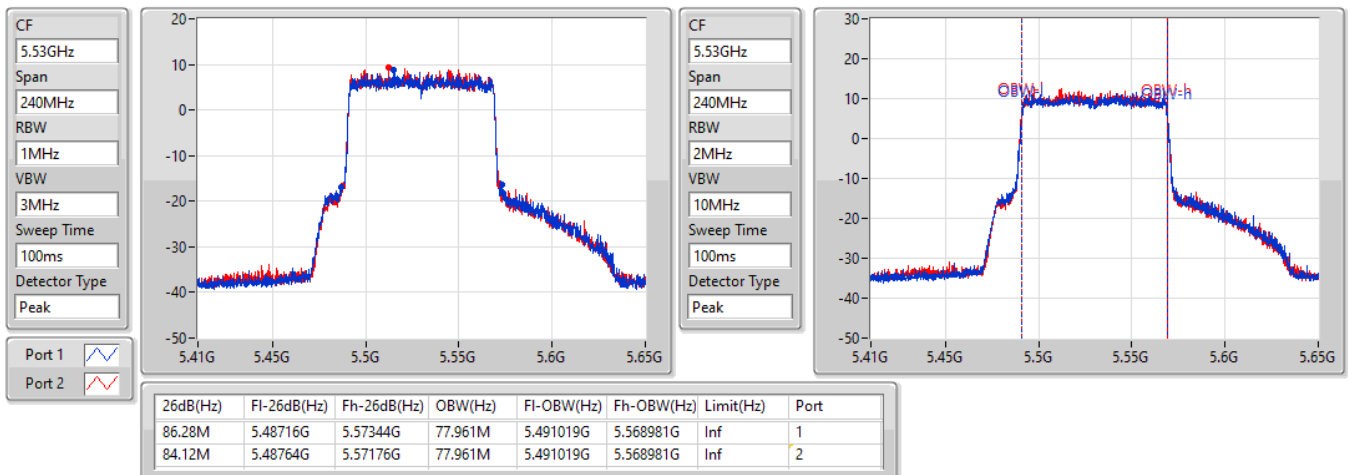


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5290MHz

29/07/2022

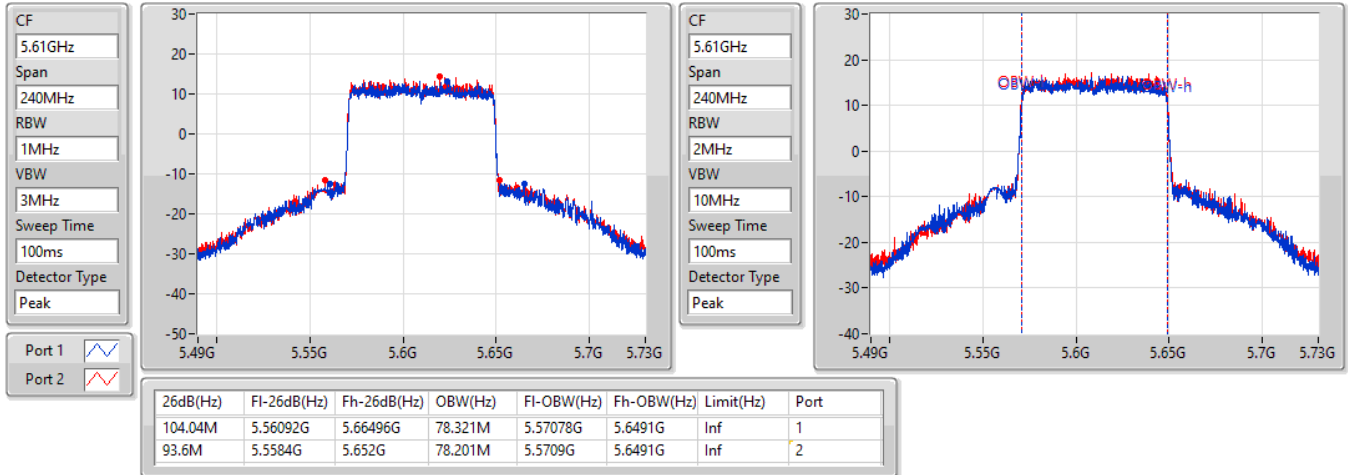

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5530MHz

29/07/2022

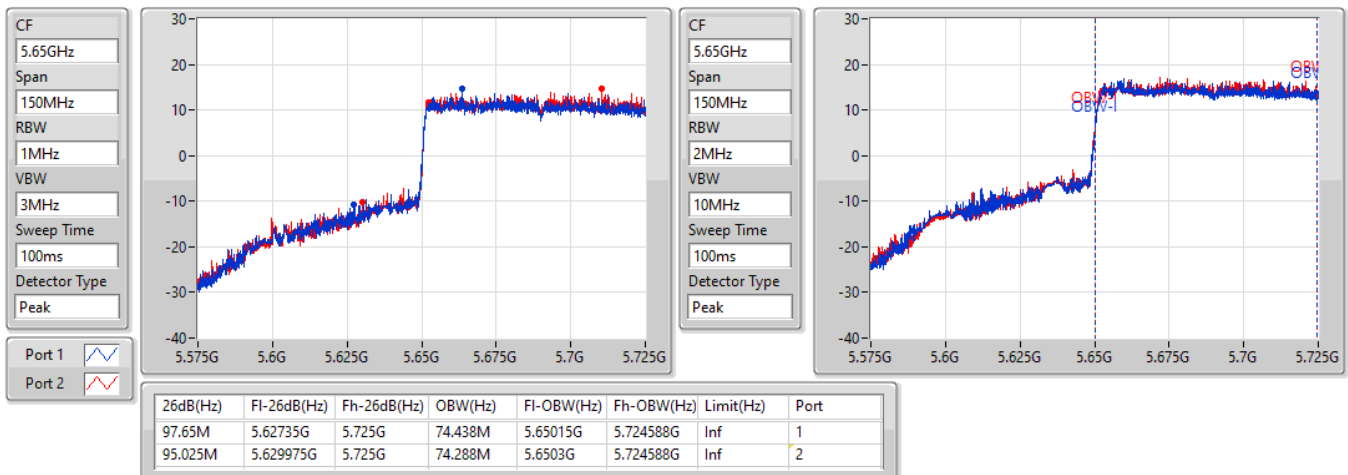


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5610MHz

29/07/2022

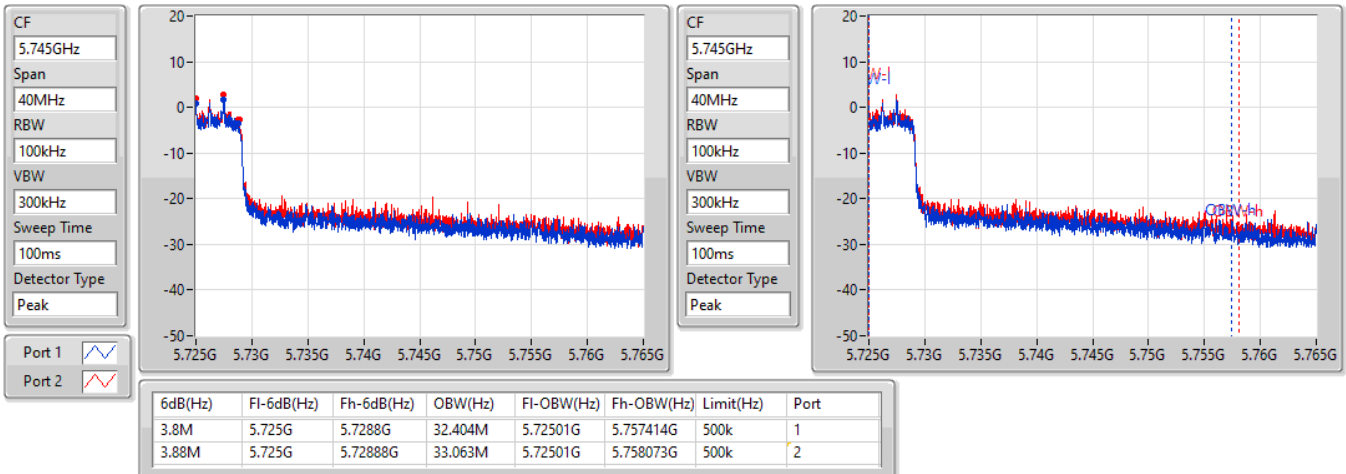

802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

29/07/2022

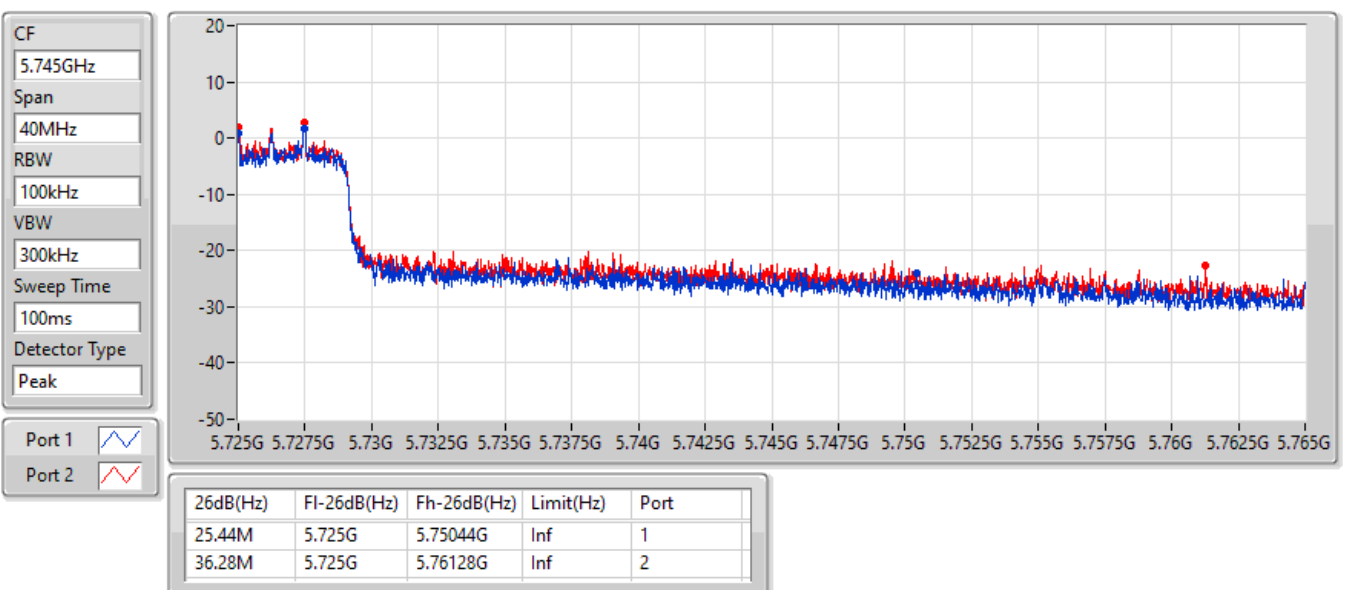


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

29/07/2022


802.11ax HEW80_Nss2,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

29/07/2022



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW160_Nss1,(MCS0)_1TX	12.95	0.01972
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	23.51	0.22439
802.11ax HEW20_Nss1,(MCS0)_1TX	23.96	0.24889
802.11ax HEW40_Nss1,(MCS0)_1TX	22.16	0.16444
802.11ax HEW80_Nss1,(MCS0)_1TX	18.77	0.07534
802.11ax HEW160_Nss1,(MCS0)_1TX	13.71	0.02350
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	21.66	0.14655
802.11ax HEW20_Nss1,(MCS0)_1TX	22.15	0.16406
802.11ax HEW40_Nss1,(MCS0)_1TX	20.67	0.11668
802.11ax HEW80_Nss1,(MCS0)_1TX	20.70	0.11749
802.11ax HEW160_Nss1,(MCS0)_1TX	13.86	0.02432
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	11.49	0.01409
802.11ax HEW20_Nss1,(MCS0)_1TX	11.77	0.01503
802.11ax HEW40_Nss1,(MCS0)_1TX	10.84	0.01213
802.11ax HEW80_Nss1,(MCS0)_1TX	6.98	0.00499

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5260MHz	Pass	2.87	23.51	23.51	23.98
5300MHz	Pass	2.87	23.28	23.28	23.98
5320MHz	Pass	2.87	21.78	21.78	23.98
5500MHz	Pass	2.65	21.66	21.66	23.98
5580MHz	Pass	2.65	20.88	20.88	23.98
5700MHz	Pass	2.65	17.30	17.30	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	2.65	17.90	17.90	23.17
5720MHz Straddle 5.725-5.85GHz	Pass	2.51	11.49	11.49	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5260MHz	Pass	2.87	23.96	23.96	23.98
5300MHz	Pass	2.87	23.26	23.26	23.98
5320MHz	Pass	2.87	21.59	21.59	23.98
5500MHz	Pass	2.65	22.15	22.15	23.98
5580MHz	Pass	2.65	20.67	20.67	23.98
5700MHz	Pass	2.65	16.39	16.39	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	2.65	17.00	17.00	23.06
5720MHz Straddle 5.725-5.85GHz	Pass	2.51	11.77	11.77	30.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
5270MHz	Pass	2.87	22.16	22.16	23.98
5310MHz	Pass	2.87	19.54	19.54	23.98
5510MHz	Pass	2.65	18.32	18.32	23.98
5550MHz	Pass	2.65	19.21	19.21	23.98
5670MHz	Pass	2.65	18.48	18.48	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	2.65	20.67	20.67	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	2.51	10.84	10.84	30.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-
5290MHz	Pass	2.87	18.77	18.77	23.98
5530MHz	Pass	2.65	19.99	19.99	23.98
5610MHz	Pass	2.65	20.68	20.68	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	2.65	20.70	20.70	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	2.51	6.98	6.98	30.00
802.11ax HEW160_Nss1,(MCS0)_1TX	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	3.18	12.95	12.95	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.87	13.71	13.71	23.98
5570MHz	Pass	2.65	13.86	13.86	23.98

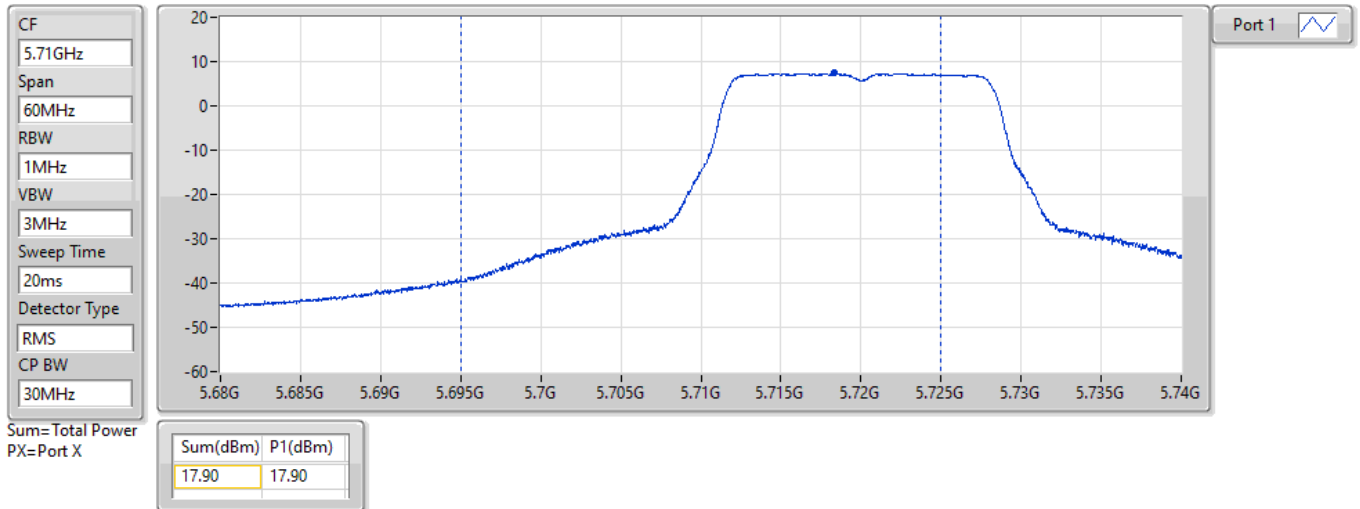
DG = Directional Gain; Port X = Port X output power

802.11a_Nss1,(6Mbps)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

27/07/2022

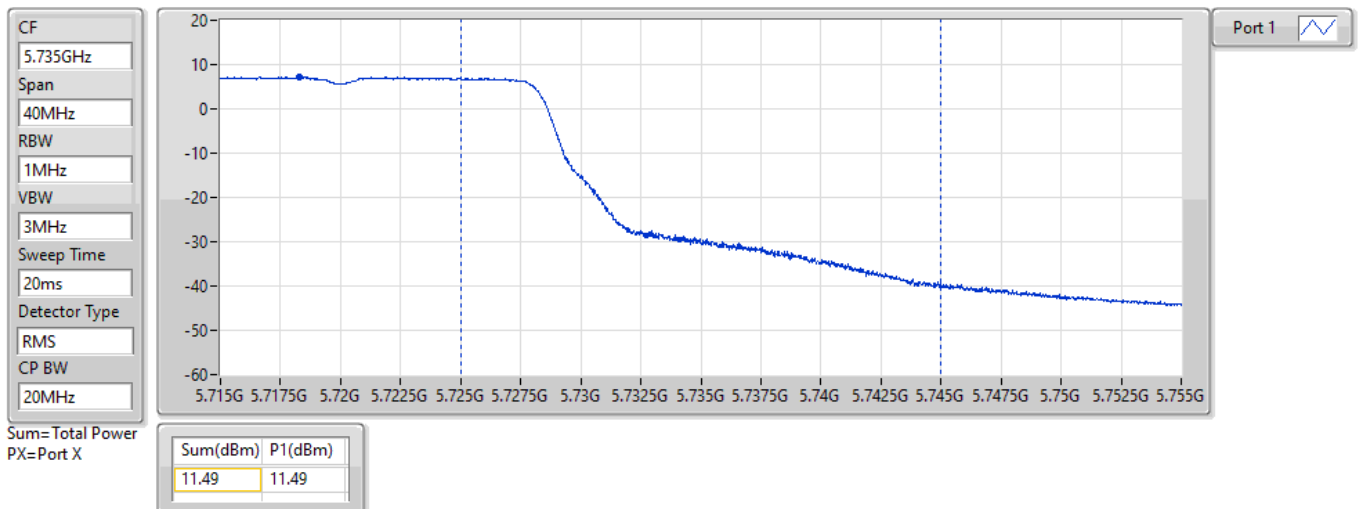


802.11a_Nss1,(6Mbps)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

27/07/2022

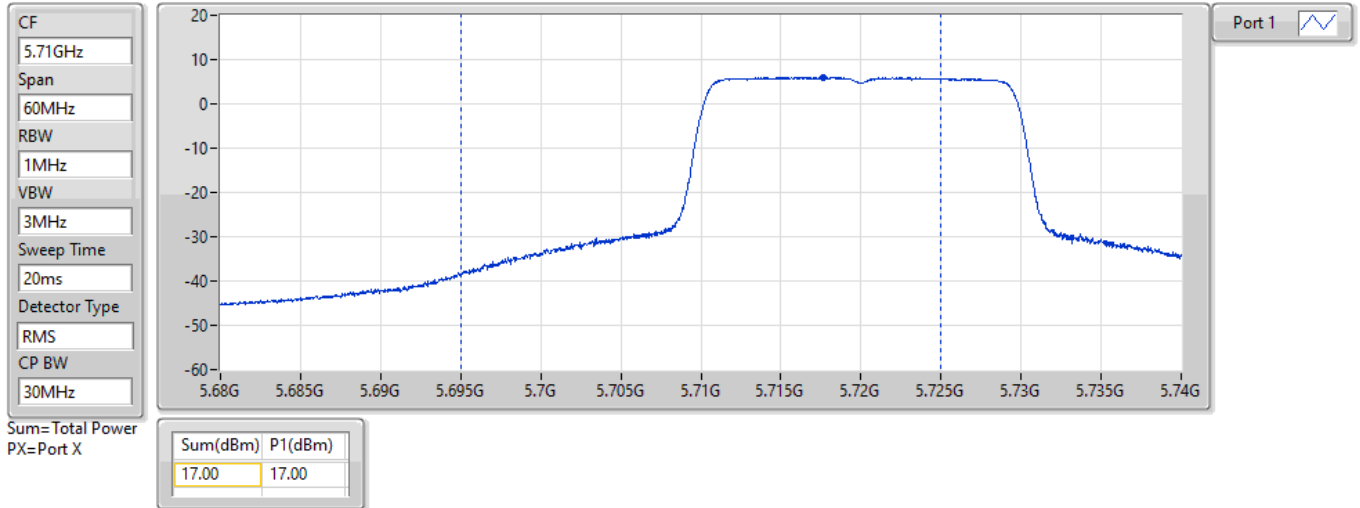


802.11ax HEW20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TX

27/07/2022



802.11ax HEW20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

27/07/2022

