

FCC Radio Test Report

FCC ID : TVE-41417T07866
Equipment : Secured Wireless Access Point
Brand Name : FORTINET
Model Name : FortiAP 831Fxxxxxx, FAP-831Fxxxxxx,
FORTIAP-831Fxxxxxx
(where "x" can be "A-Z", or "0-9", or "-", or blank for
software purposes or marketing purposes only)
Applicant : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA
Manufacturer : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA
Standard : 47 CFR FCC Part 15.407

The product was received on May 31, 2021, and testing was started from May 31, 2021 and completed on Jul. 01, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver4.2
FCC ID: TVE-41417T07866



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	Refer as 1.1.7
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

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

Comments and explanations:

The EUT supports beamforming and CDD modes, and the CDD mode is the worse case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluateds the output power.

Reviewed by: Howard Lee

Report Producer: Amber Chiu



1 General Description

1.1 Information

1.1.1 RF General Information

Radio 1

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20) , ax(HEW20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5250-5350	n (HT40), ac (VHT40) , ax(HEW40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5150-5250	ac (VHT80) , ax(HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]

Radio 3

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5150-5250	ac (VHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]

**Radio 1 4TX_Non-Beamforming**

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	4TX
5.47-5.725GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.25-5.35GHz	802.11n HT20	20	4TX
5.47-5.725GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.25-5.35GHz	802.11n HT40	40	4TX
5.47-5.725GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX

**Radio 1 8TX_Non-Beamforming**

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	8TX
5.47-5.725GHz	802.11a	20	8TX
5.725-5.85GHz	802.11a	20	8TX
5.25-5.35GHz	802.11n HT20	20	8TX
5.47-5.725GHz	802.11n HT20	20	8TX
5.725-5.85GHz	802.11n HT20	20	8TX
5.25-5.35GHz	802.11n HT40	40	8TX
5.47-5.725GHz	802.11n HT40	40	8TX
5.725-5.85GHz	802.11n HT40	40	8TX
5.25-5.35GHz	802.11ac VHT20	20	8TX
5.47-5.725GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.25-5.35GHz	802.11ac VHT40	40	8TX
5.47-5.725GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.25-5.35GHz	802.11ac VHT80	80	8TX
5.47-5.725GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX
5.15-5.25GHz	802.11ac VHT80+80	80	4TX(Port 1/2/3/4)
5.25-5.35GHz	802.11ac VHT80+80	80	4TX(Port 5/6/7/8)
5.47-5.725GHz	802.11ac VHT80+80	160	8TX
5.25-5.35GHz	802.11ax HEW20	20	8TX
5.47-5.725GHz	802.11ax HEW20	20	8TX
5.725-5.85GHz	802.11ax HEW20	20	8TX
5.25-5.35GHz	802.11ax HEW40	40	8TX
5.47-5.725GHz	802.11ax HEW40	40	8TX
5.725-5.85GHz	802.11ax HEW40	40	8TX
5.25-5.35GHz	802.11ax HEW80	80	8TX
5.47-5.725GHz	802.11ax HEW80	80	8TX
5.725-5.85GHz	802.11ax HEW80	80	8TX
5.15-5.25GHz	802.11ax HEW80+80	80	4TX(Port 1/2/3/4)
5.25-5.35GHz	802.11ax HEW80+80	80	4TX(Port 5/6/7/8)
5.47-5.725GHz	802.11ax HEW80+80	160	8TX

**Radio 3_Non-Beamforming**

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	1TX
5.47-5.725GHz	802.11a	20	1TX
5.725-5.85GHz	802.11a	20	1TX
5.25-5.35GHz	802.11n HT20	20	1TX
5.47-5.725GHz	802.11n HT20	20	1TX
5.725-5.85GHz	802.11n HT20	20	1TX
5.25-5.35GHz	802.11n HT40	40	1TX
5.47-5.725GHz	802.11n HT40	40	1TX
5.725-5.85GHz	802.11n HT40	40	1TX
5.25-5.35GHz	802.11ac VHT20	20	1TX
5.47-5.725GHz	802.11ac VHT20	20	1TX
5.725-5.85GHz	802.11ac VHT20	20	1TX
5.25-5.35GHz	802.11ac VHT40	40	1TX
5.47-5.725GHz	802.11ac VHT40	40	1TX
5.725-5.85GHz	802.11ac VHT40	40	1TX
5.25-5.35GHz	802.11ac VHT80	80	1TX
5.47-5.725GHz	802.11ac VHT80	80	1TX

Radio 1 4TX_Beamforming

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.47-5.725GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX

**Radio 1 8TX_Beamforming**

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ax HEW20-BF	20	8TX
5.47-5.725GHz	802.11ax HEW20-BF	20	8TX
5.725-5.85GHz	802.11ax HEW20-BF	20	8TX
5.25-5.35GHz	802.11ax HEW40-BF	40	8TX
5.47-5.725GHz	802.11ax HEW40-BF	40	8TX
5.725-5.85GHz	802.11ax HEW40-BF	40	8TX
5.25-5.35GHz	802.11ax HEW80-BF	80	8TX
5.47-5.725GHz	802.11ax HEW80-BF	80	8TX
5.725-5.85GHz	802.11ax HEW80-BF	80	8TX
5.15-5.25GHz	802.11ax HEW80+80-BF	80	4TX(Port 1/2/3/4)
5.25-5.35GHz	802.11ax HEW80+80-BF	80	4TX(Port 5/6/7/8)
5.47-5.725GHz	802.11ax HEW80+80-BF	160	8TX

Note:

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

1.1.2 Table for 80+80 MHz Mode

Type	Channel No.	Frequency
13	42+58	5210+5290 MHz
14	106+122	5530+5610 MHz



1.1.3 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Senao	5718A0607300	PIFA	I-Pex
2	Senao	5718A0608300	PIFA	I-Pex
3	Senao	5718A0609300	PIFA	I-Pex
4	Senao	5718A0610300	PIFA	I-Pex
5	Senao	5718A0611300	PIFA	I-Pex
6	Senao	5718A0612300	PIFA	I-Pex
7	Senao	5718A0613300	PIFA	I-Pex
8	Senao	5718A0614300	PIFA	I-Pex
9	Senao	5718A0611300	PIFA	I-Pex
10	Senao	5718A0612300	PIFA	I-Pex
11	Senao	5718A0613300	PIFA	I-Pex
12	Senao	5718A0614300	PIFA	I-Pex
13	Senao	5718A0615300	PIFA	I-Pex
14	Senao	5718A0616300	Dipole	I-Pex

Ant.	2.4GHz		5GHz			BT LE	Remark		
	Max Peak Gain(dBi)	Correlated Gain(dBi)	Max Peak Gain(dBi)	Correlated Gain(dBi)		Antenna Gain(dBi)			
1	4.4	6.7	-	-		-	Radio 2, 4*4		
2	4.49	6.7					Radio 2, 4*4		
3	4.32	6.7					Radio 2, 4*4		
4	4.14	6.7					Radio 2, 4*4		
5	-	-	6.10	Band1:9.52 Band2:9.01 Band3:7.95 Band4:7.84	Band1:7.23 Band2:7.18	-	Radio 1 8*8 mode	Radio 1 4*4 mode Low Band mode	
6			6.21						
7			6.11						
8			6.12						
9			6.24	Band3:6.09 Band4:7.44			Radio 1 4*4 mode Hi Band mode		
10			6.20						
11			6.27						
12			6.13						
13	4.69	-	4.60	-		-	Radio 3		
14	-	-	-			5.20	BT		

**For 2.4 GHz function:**

Radio 2

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

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

Radio 3(Scan radio)

For IEEE 802.11b/g/n mode (1TX/1RX)

Only Ant.13 can be used as transmitting/receiving.

For 5 GHz function:

Radio 1

For IEEE 802.11a/n/ac/ax mode (8TX/8RX)

Ant.5, Ant.6, Ant.7, Ant.8, Ant.9, Ant.10, Ant.11 and Ant.12 could transmit/receive simultaneously.

For IEEE 802.11a/n/ac/ax mode (4TX/4RX) (Low Band mode)

Ant.5, Ant.6, Ant.7, and Ant.8 could transmit/receive simultaneously.

For IEEE 802.11a/n/ac/ax mode (4TX/4RX) (Hi Band mode)

Ant.9, Ant.10, Ant.11 and Ant.12 could transmit/receive simultaneously.

Radio 3(Scan radio)

For IEEE 802.11a/n/ac mode (1TX/1RX)

Only Ant.13 can be used as transmitting/receiving.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Only Ant.14 can be used as transmitting/receiving.

1.1.4 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / PoE		
EUT Function	☐	Outdoor AP	☒ Indoor AP
	☐	Fixed P2P AP	☐ Outdoor/Indoor Client
Beamforming Function	☒	With beamforming	☐ Without beamforming
TPC Function	☒	With TPC Function	☐ Without TPC Function
Weather Band	☒	With 5600~5650MHz	☐ Without 5600~5650MHz
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:		...
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

**1.1.5 Mode Test Duty Cycle****Radio 1 4TX_Non-Beamforming**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.59	2.29	268.438u	10k
802.11n HT20_Nss1,(MCS0)_4TX	0.601	2.21	269.063u	10k
802.11n HT40_Nss1,(MCS0)_4TX	0.943	0.25	5.428m	300
802.11ac VHT20_Nss1,(MCS0)_4TX	0.945	0.25	5.428m	300
802.11ac VHT40_Nss1,(MCS0)_4TX	0.935	0.29	5.428m	300
802.11ac VHT80_Nss1,(MCS0)_4TX	0.957	0.19	5.428m	300
802.11ax HEW20_Nss1,(MCS0)_4TX	0.948	0.23	5.452m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.958	0.19	5.451m	300
802.11ax HEW80_Nss1,(MCS0)_4TX	0.94	0.27	5.451m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Radio 1 8TX_Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_8TX	0.95	0.22	1.977m	1k
802.11n HT20_Nss1,(MCS0)_8TX	0.95	0.22	5.428m	300
802.11n HT40_Nss1,(MCS0)_8TX	0.943	0.25	5.428m	300
802.11ac VHT20_Nss1,(MCS0)_8TX	0.949	0.23	5.428m	300
802.11ac VHT40_Nss1,(MCS0)_8TX	0.973	0.12	5.052m	300
802.11ac VHT80_Nss1,(MCS0)_8TX	0.844	0.74	5.428m	300
802.11ac VHT80+80_Nss1,(MCS0)_8TX	0.901	0.45	5.428m	300
802.11ax HEW20_Nss1,(MCS0)_8TX	0.943	0.25	5.451m	300
802.11ax HEW40_Nss1,(MCS0)_8TX	0.939	0.27	5.452m	300
802.11ax HEW80_Nss1,(MCS0)_8TX	0.96	0.18	4.815m	300
802.11ax HEW80+80_Nss1,(MCS0)_8TX	0.933	0.3	5.451m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Radio 3_Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_1TX	0.967	0.15	2.028m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.968	0.14	1.888m	1k
802.11n HT40_Nss1,(MCS0)_1TX	0.924	0.34	928.438u	3k
802.11ac VHT20_Nss1,(MCS0)_1TX	0.968	0.14	1.897m	1k
802.11ac VHT40_Nss1,(MCS0)_1TX	0.923	0.35	936.563u	3k
802.11ac VHT80_Nss1,(MCS0)_1TX	0.858	0.67	456.563u	3k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Radio 1 4TX_Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.948	0.23	5.452m	300
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.958	0.19	5.451m	300
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.94	0.27	5.451m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Radio 1 8TX_Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	0.943	0.25	5.451m	300
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	0.939	0.27	5.452m	300
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	0.96	0.18	4.815m	300
802.11ax HEW80+80-BF_Nss1,(MCS0)_8TX	0.933	0.3	5.451m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.



1.1.6 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Brand Name	Model Name	Description
FORTINET	FortiAP 831Fxxxxxx, FAP-831Fxxxxxx, FORTIAP-831Fxxxxxx (where "x" can be "A-Z", or "0-9", or "-", or blank for software purposes or marketing purposes only)	All the models are identical, the difference model for difference brand served as marketing strategy.

1.1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR111206AN

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

Modifications	Performance Checking
U-NII-2A and U-NII-2C was added	Emission Bandwidth, Maximum Conducted Output Power, Peak Power Spectral Density and Unwanted Emissions above 1GHz

1.2 Testing Applied 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
- ♦ KDB 789033 D02 v02r01

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

- ♦ KDB 662911 D01 v02r01
- ♦ KDB 662911 D03 v01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Barry Hsiao	24.4~25.9°C / 53~65%	04/Jun/2021~01/Jul/2021
Radiated	03CH02-HY	Lego Lin	23.5~25.9°C / 53~60%	31/May/2021~01/Jul/2021
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	qdart_conn.win.1.0_installer_00076.1
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Radio 1 4TX_Non-Beamforming

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	14
5300MHz	14
5320MHz	14
5500MHz	14
5580MHz	14
5700MHz	13
5720MHz Straddle 5.47-5.725GHz	14
5720MHz Straddle 5.725-5.85GHz	14
802.11n HT20_Nss1,(MCS0)_4TX	-
5260MHz	14
5300MHz	14
5320MHz	14
5500MHz	12.5
5580MHz	15
5700MHz	13.5
5720MHz Straddle 5.47-5.725GHz	14.5
5720MHz Straddle 5.725-5.85GHz	14.5
802.11n HT40_Nss1,(MCS0)_4TX	-
5270MHz	15.5
5310MHz	13.5
5510MHz	12
5550MHz	15.5
5670MHz	13
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5260MHz	16
5300MHz	16



Mode	Power Setting
5320MHz	16
5500MHz	12.5
5580MHz	16
5700MHz	13.5
5720MHz Straddle 5.47-5.725GHz	17.5
5720MHz Straddle 5.725-5.85GHz	17.5
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5270MHz	15.5
5310MHz	13.5
5510MHz	12
5550MHz	15.5
5670MHz	13
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5290MHz	12.5
5530MHz	12
5610MHz	13.5
5690MHz Straddle 5.47-5.725GHz	16.5
5690MHz Straddle 5.725-5.85GHz	16.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	16
5300MHz	16
5320MHz	16
5500MHz	12.5
5580MHz	16
5700MHz	13.5
5720MHz Straddle 5.47-5.725GHz	17.5
5720MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5270MHz	15.5
5310MHz	13.5
5510MHz	12
5550MHz	15.5
5670MHz	13



Mode	Power Setting
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	12.5
5530MHz	12
5610MHz	13.5
5690MHz Straddle 5.47-5.725GHz	16.5
5690MHz Straddle 5.725-5.85GHz	16.5

Radio 1 8TX_Non-Beamforming

Mode	Power Setting
802.11a_Nss1,(6Mbps)_8TX	-
5260MHz	9.5
5300MHz	9.5
5320MHz	9.5
5500MHz	9.5
5580MHz	9.5
5700MHz	10
5720MHz Straddle 5.47-5.725GHz	9
5720MHz Straddle 5.725-5.85GHz	9
802.11n HT20_Nss1,(MCS0)_8TX	-
5260MHz	9.5
5300MHz	9.5
5320MHz	9.5
5500MHz	9.5
5580MHz	9.5
5700MHz	10
5720MHz Straddle 5.47-5.725GHz	9.5
5720MHz Straddle 5.725-5.85GHz	9.5
802.11n HT40_Nss1,(MCS0)_8TX	-
5270MHz	12.5
5310MHz	12.5
5510MHz	11.5
5550MHz	12.5
5670MHz	12.5



Mode	Power Setting
5710MHz Straddle 5.47-5.725GHz	13.5
5710MHz Straddle 5.725-5.85GHz	13.5
802.11ac VHT20_Nss1,(MCS0)_8TX	-
5260MHz	9.5
5300MHz	9.5
5320MHz	9.5
5500MHz	9.5
5580MHz	9.5
5700MHz	10
5720MHz Straddle 5.47-5.725GHz	9.5
5720MHz Straddle 5.725-5.85GHz	9.5
802.11ac VHT40_Nss1,(MCS0)_8TX	-
5270MHz	12.5
5310MHz	12.5
5510MHz	11.5
5550MHz	12.5
5670MHz	12.5
5710MHz Straddle 5.47-5.725GHz	13.5
5710MHz Straddle 5.725-5.85GHz	13.5
802.11ac VHT80_Nss1,(MCS0)_8TX	-
5290MHz	11.5
5530MHz	9.5
5610MHz	12.5
5690MHz Straddle 5.47-5.725GHz	13.5
5690MHz Straddle 5.725-5.85GHz	13.5
802.11ac VHT80+80_Nss1,(MCS0)_4TX (Port1&Port2&Port3&Port4)	-
#5210MHz,5290MHz	12
802.11ac VHT80+80_Nss1,(MCS0)_4TX (Port5&Port6&Port7&Port8)	-
5210MHz,#5290MHz	12
802.11ac VHT80+80_Nss1,(MCS0)_8TX	-
#5530MHz,#5610MHz	12
802.11ax HEW20_Nss1,(MCS0)_8TX	-
5260MHz	9.5



Mode	Power Setting
5300MHz	9.5
5320MHz	9.5
5500MHz	9.5
5580MHz	9.5
5700MHz	10
5720MHz Straddle 5.47-5.725GHz	9.5
5720MHz Straddle 5.725-5.85GHz	9.5
802.11ax HEW40_Nss1,(MCS0)_8TX	-
5270MHz	12.5
5310MHz	12.5
5510MHz	11.5
5550MHz	12.5
5670MHz	12.5
5710MHz Straddle 5.47-5.725GHz	13.5
5710MHz Straddle 5.725-5.85GHz	13.5
802.11ax HEW80_Nss1,(MCS0)_8TX	-
5290MHz	11.5
5530MHz	9.5
5610MHz	12.5
5690MHz Straddle 5.47-5.725GHz	13.5
5690MHz Straddle 5.725-5.85GHz	13.5
802.11ax HEW80+80_Nss1,(MCS0)_4TX (Port1&Port2&Port3&Port4)	-
#5210MHz,5290MHz	12
802.11ax HEW80+80_Nss1,(MCS0)_4TX (Port5&Port6&Port7&Port8)	-
5210MHz,#5290MHz	12
802.11ax HEW80+80_Nss1,(MCS0)_8TX	-
#5530MHz,#5610MHz	12

**Radio 3_Non-Beamforming**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	19.5
5300MHz	19.5
5320MHz	17
5500MHz	17
5580MHz	20.5
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	19.5
5720MHz Straddle 5.725-5.85GHz	19.5
802.11n HT20_Nss1,(MCS0)_1TX	-
5260MHz	19.5
5300MHz	19.5
5320MHz	16.5
5500MHz	17
5580MHz	20
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	18.5
5720MHz Straddle 5.725-5.85GHz	18.5
802.11n HT40_Nss1,(MCS0)_1TX	-
5270MHz	12.5
5310MHz	13
5510MHz	16.5
5550MHz	20
5670MHz	18.5
5710MHz Straddle 5.47-5.725GHz	18.5
5710MHz Straddle 5.725-5.85GHz	18.5
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5260MHz	19.5
5300MHz	19.5
5320MHz	16.5
5500MHz	17
5580MHz	20
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	18.5



Mode	Power Setting
5720MHz Straddle 5.725-5.85GHz	18.5
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5270MHz	12.5
5310MHz	13
5510MHz	16.5
5550MHz	20
5670MHz	18.5
5710MHz Straddle 5.47-5.725GHz	18.5
5710MHz Straddle 5.725-5.85GHz	18.5
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5290MHz	5
5530MHz	12.5
5610MHz	18.5
5690MHz Straddle 5.47-5.725GHz	19
5690MHz Straddle 5.725-5.85GHz	19

Radio 1 4TX_Beamforming

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	15
5300MHz	15
5320MHz	15
5500MHz	12.5
5580MHz	16
5700MHz	13.5
5720MHz Straddle 5.47-5.725GHz	17.5
5720MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	14.5
5310MHz	12.5
5510MHz	12
5550MHz	15.5
5670MHz	13
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17



Mode	Power Setting
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	11.5
5530MHz	12
5610MHz	13.5
5690MHz Straddle 5.47-5.725GHz	16.5
5690MHz Straddle 5.725-5.85GHz	16.5

Radio 1 8TX_Beamforming

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-
5260MHz	10
5300MHz	10
5320MHz	10
5500MHz	11
5580MHz	11
5700MHz	11.5
5720MHz Straddle 5.47-5.725GHz	11
5720MHz Straddle 5.725-5.85GHz	11
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-
5270MHz	10
5310MHz	10
5510MHz	10
5550MHz	11
5670MHz	11
5710MHz Straddle 5.47-5.725GHz	12
5710MHz Straddle 5.725-5.85GHz	12
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-
5290MHz	9
5530MHz	8
5610MHz	11
5690MHz Straddle 5.47-5.725GHz	12
5690MHz Straddle 5.725-5.85GHz	12
802.11ax HEW80+80-BF_Nss1,(MCS0)_4TX (Port1&Port2&Port3&Port4)	-
#5210MHz,5290MHz	9.5
802.11ax HEW80+80-BF_Nss1,(MCS0)_4TX	-

Mode	Power Setting
(Port5&Port6&Port7&Port8)	
5210MHz,#5290MHz	9.5
802.11ax HEW80+80-BF_Nss1,(MCS0)_8TX	-
#5530MHz,#5610MHz	10.5

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
Test Condition	Conducted measurement at transmit chains

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	Adapter mode; WIFI 5G TX, Radio 1 4TX		
2	Adapter mode; WIFI 5G TX, Radio 1 8TX		
3	Adapter mode; WIFI 5G TX, Radio 3		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V(Radio 3)	V(Radio 1)	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Radio1: WLAN 5G(8*8)+Radio2: WLAN 2.4G+Radio3: WLAN 2.4G+BT
2	Radio1: WLAN 5G(8*8)+Radio2: WLAN 2.4G+Radio3: WLAN 5G+BT
3	Radio1: WLAN 5G(4*4 Hi+4*4 Low)+Radio2: WLAN 2.4G+Radio3: WLAN 2.4G+BT
4	Radio1: WLAN 5G(4*4 Hi+4*4 Low)+Radio2: WLAN 2.4G+Radio3: WLAN 5G+BT
Refer to Sporton Test Report No.: FA111206-01 for Co-location RF Exposure Evaluation.	

2.3 Accessories

Accessories				
Bracket ceiling mount 1	Brand Name	Senao Networks, Inc.	Model Name	CLIP CEILING 9/16 LFP
Bracket ceiling mount 2	Brand Name	Senao Networks, Inc.	Model Name	CLIP CEILING 15/16 LFP

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

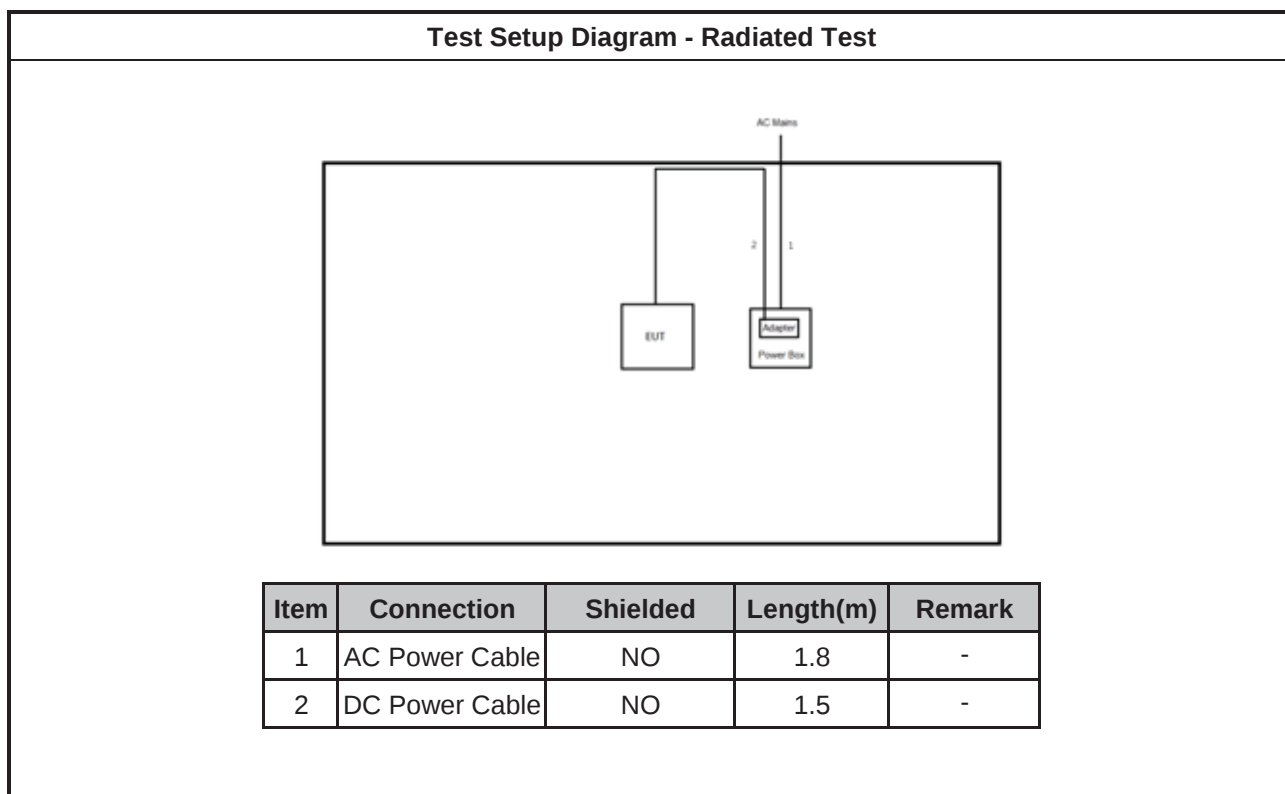
2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC adapter	Asian Power Devices	WA-36A12R	-	Note 1

Note 1: Provided by customer.

2.5 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, N/A
☒	For the 5.47-5.725 GHz band, N/A
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

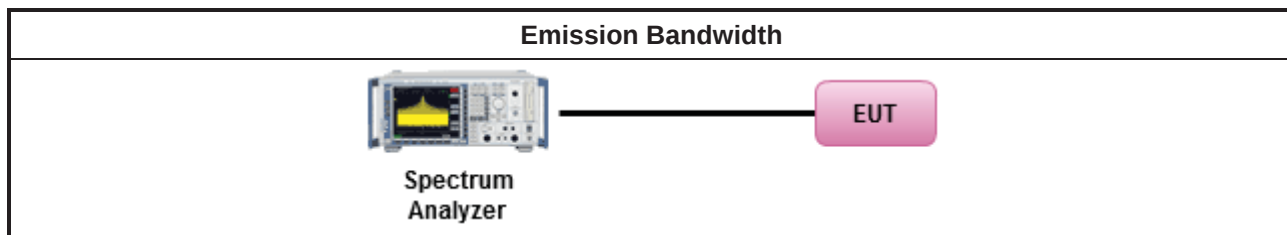
3.1.2 Measuring Instruments

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

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted 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.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

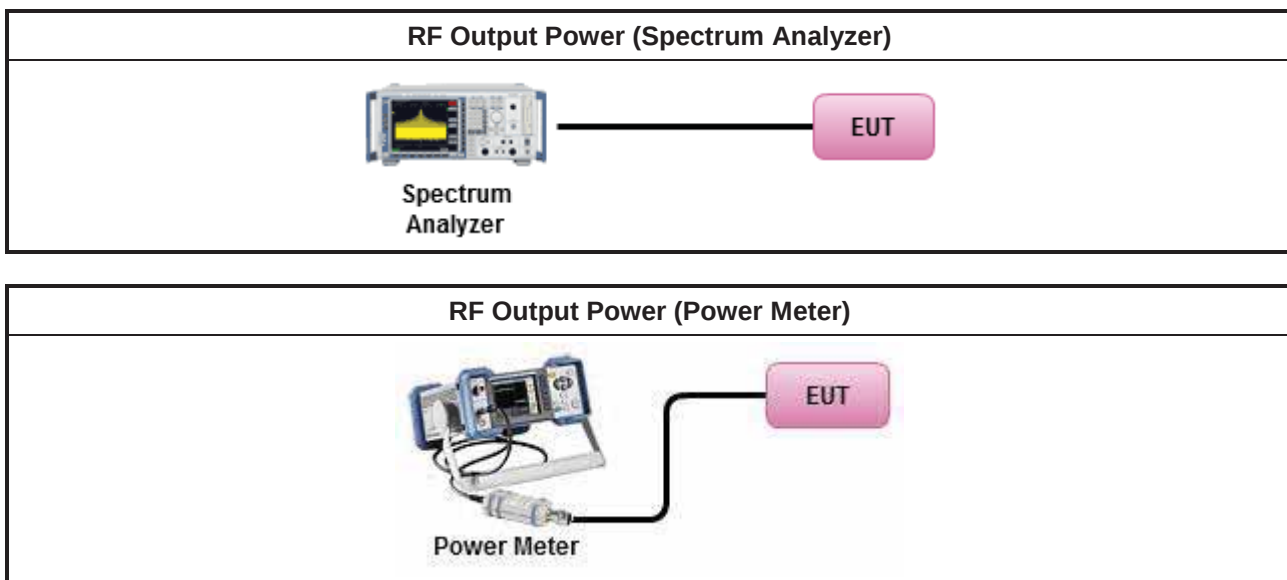
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☒	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as 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: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density 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.
PPSD = peak power spectral density that the 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.	

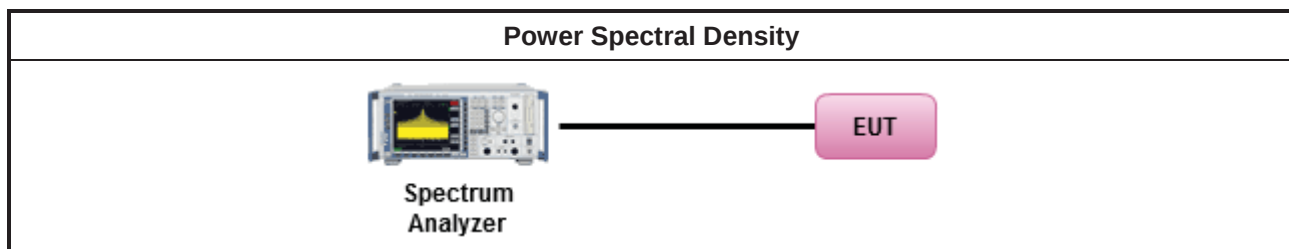
3.3.2 Measuring Instruments

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 KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
Duty cycle ≥ 98%	
☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
Duty cycle < 98%	
☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
Measure and sum the spectra across the outputs. Refer as 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.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 Transmitter Radiated 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	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

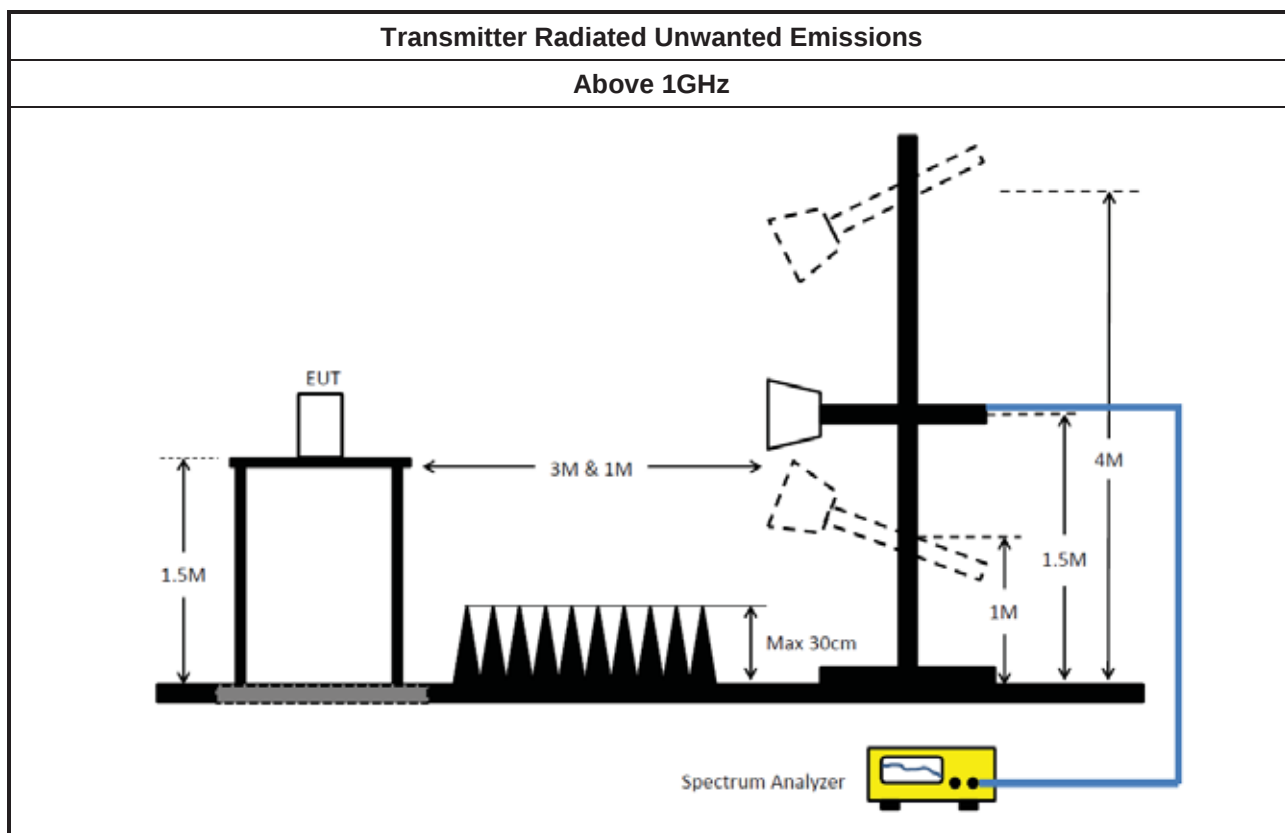
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 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:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
	☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.4.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.4.5 Test Setup



3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Mar/2021	29/Mar/2022
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	23/Feb/2021	22/Feb/2022

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Microwave Preampifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	23/Oct/2020	22/Oct/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+8051 92/4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Prempifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	09/Mar/2021	08/Mar/2022
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	09/Jun/2020	08/Jun/2021
Double Ridged Guide Horn Antenna	COM-POWER	AH-118	10094	1GHz~18GHz	08/Jul/2020	07/Jul/2021

**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)_4TX	19.86M	16.492M	16M5D1D	19.29M	16.402M
802.11n HT20_Nss1,(MCS0)_4TX	20.85M	17.661M	17M7D1D	20.28M	17.571M
802.11n HT40_Nss1,(MCS0)_4TX	41.28M	36.462M	36M5D1D	40.14M	36.222M
802.11ac VHT20_Nss1,(MCS0)_4TX	22.38M	17.661M	17M7D1D	20.55M	17.601M
802.11ac VHT40_Nss1,(MCS0)_4TX	41.64M	36.402M	36M4D1D	39.9M	36.222M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.68M	75.922M	75M9D1D	81.48M	75.802M
802.11ax HEW20_Nss1,(MCS0)_4TX	22.17M	19.04M	19M0D1D	21.18M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	42.12M	38.201M	38M2D1D	40.92M	37.841M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.68M	77.601M	77M6D1D	82.32M	77.121M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.37M	16.522M	16M5D1D	14.31M	13.178M
802.11n HT20_Nss1,(MCS0)_4TX	22.11M	17.661M	17M7D1D	15.225M	13.793M
802.11n HT40_Nss1,(MCS0)_4TX	60.48M	36.522M	36M5D1D	36.54M	33.058M
802.11ac VHT20_Nss1,(MCS0)_4TX	24.69M	17.721M	17M7D1D	19.08M	13.913M
802.11ac VHT40_Nss1,(MCS0)_4TX	62.7M	36.462M	36M5D1D	36.33M	33.128M
802.11ac VHT80_Nss1,(MCS0)_4TX	87.75M	75.802M	75M8D1D	76.125M	72.489M
802.11ax HEW20_Nss1,(MCS0)_4TX	27.09M	19.07M	19M1D1D	19.365M	14.498M
802.11ax HEW40_Nss1,(MCS0)_4TX	52.68M	38.141M	38M1D1D	40.44M	33.863M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.8M	77.721M	77M7D1D	76.65M	73.388M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.14M	3.498M	3M50D1D	3.12M	3.418M
802.11n HT20_Nss1,(MCS0)_4TX	3.78M	4.058M	4M06D1D	3.76M	3.938M
802.11n HT40_Nss1,(MCS0)_4TX	3.14M	22.009M	22M0D1D	3.12M	16.012M
802.11ac VHT20_Nss1,(MCS0)_4TX	3.76M	9.355M	9M36D1D	3.72M	7.596M
802.11ac VHT40_Nss1,(MCS0)_4TX	3.14M	18.831M	18M8D1D	3.12M	12.374M
802.11ac VHT80_Nss1,(MCS0)_4TX	3.14M	33.023M	33M0D1D	3.04M	27.366M
802.11ax HEW20_Nss1,(MCS0)_4TX	4.5M	11.034M	11M0D1D	4.36M	6.157M
802.11ax HEW40_Nss1,(MCS0)_4TX	4.1M	23.548M	23M5D1D	3.9M	17.671M
802.11ax HEW80_Nss1,(MCS0)_4TX	4.12M	33.243M	33M2D1D	3.98M	28.746M

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	19.86M	16.492M	19.5M	16.432M	19.47M	16.432M	19.32M	16.432M
5300MHz	Pass	Inf	19.56M	16.462M	19.59M	16.492M	19.35M	16.432M	19.32M	16.432M
5320MHz	Pass	Inf	19.44M	16.462M	19.29M	16.402M	19.56M	16.432M	19.32M	16.402M
5500MHz	Pass	Inf	19.95M	16.492M	20.01M	16.432M	19.5M	16.432M	20.37M	16.462M
5580MHz	Pass	Inf	19.71M	16.432M	19.56M	16.432M	19.2M	16.432M	19.68M	16.462M
5700MHz	Pass	Inf	19.59M	16.492M	19.08M	16.342M	19.59M	16.522M	19.38M	16.462M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.685M	13.208M	15.135M	13.298M	14.31M	13.178M	14.685M	13.253M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.498M	3.14M	3.478M	3.12M	3.418M	3.12M	3.418M
802.11n HT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.73M	17.631M	20.4M	17.601M	20.76M	17.631M	20.85M	17.661M
5300MHz	Pass	Inf	20.64M	17.601M	20.85M	17.631M	20.28M	17.571M	20.67M	17.661M
5320MHz	Pass	Inf	20.76M	17.631M	20.58M	17.601M	20.52M	17.601M	20.46M	17.631M
5500MHz	Pass	Inf	20.52M	17.661M	20.91M	17.661M	20.61M	17.661M	20.85M	17.601M
5580MHz	Pass	Inf	20.85M	17.661M	21.63M	17.631M	21.06M	17.631M	22.11M	17.631M
5700MHz	Pass	Inf	20.73M	17.661M	20.28M	17.541M	20.55M	17.661M	20.55M	17.661M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.405M	13.883M	15.75M	13.868M	15.24M	13.793M	15.225M	13.868M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.018M	3.76M	4.058M	3.78M	3.938M	3.76M	3.978M
802.11n HT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	41.28M	36.342M	41.16M	36.402M	40.74M	36.282M	40.26M	36.342M
5310MHz	Pass	Inf	40.38M	36.342M	40.26M	36.222M	40.56M	36.282M	40.14M	36.462M
5510MHz	Pass	Inf	40.2M	36.222M	40.5M	36.342M	40.62M	36.342M	40.08M	36.282M
5550MHz	Pass	Inf	42.84M	36.402M	60.48M	36.462M	41.76M	36.282M	46.98M	36.522M
5670MHz	Pass	Inf	40.86M	36.342M	40.32M	36.222M	40.44M	36.402M	40.08M	36.342M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	49.175M	33.198M	48.3M	33.128M	36.54M	33.058M	39.48M	33.198M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	20.73M	3.12M	22.009M	3.12M	16.012M	3.14M	19.75M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.36M	17.631M	22.38M	17.661M	20.85M	17.631M	22.11M	17.661M
5300MHz	Pass	Inf	21.33M	17.601M	21.3M	17.661M	20.79M	17.601M	20.55M	17.631M
5320MHz	Pass	Inf	21.33M	17.661M	21.21M	17.631M	21M	17.631M	20.85M	17.601M
5500MHz	Pass	Inf	20.76M	17.601M	20.55M	17.661M	20.67M	17.601M	20.64M	17.661M
5580MHz	Pass	Inf	23.04M	17.661M	24.69M	17.721M	21.96M	17.661M	24.27M	17.721M
5700MHz	Pass	Inf	20.52M	17.661M	20.43M	17.541M	20.76M	17.691M	20.76M	17.661M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	19.08M	14.018M	19.2M	13.913M	20.265M	13.958M	20.01M	14.018M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	8.356M	3.76M	9.355M	3.74M	7.596M	3.72M	8.656M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.74M	36.222M	41.64M	36.402M	40.62M	36.282M	40.38M	36.402M
5310MHz	Pass	Inf	40.44M	36.222M	40.2M	36.342M	40.68M	36.282M	39.9M	36.282M
5510MHz	Pass	Inf	40.56M	36.222M	40.5M	36.282M	40.2M	36.222M	39.84M	36.282M
5550MHz	Pass	Inf	43.56M	36.402M	62.7M	36.462M	40.98M	36.342M	45.66M	36.342M
5670MHz	Pass	Inf	40.5M	36.162M	40.02M	36.162M	40.56M	36.342M	40.14M	36.342M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	48.02M	33.268M	48.09M	33.128M	36.33M	33.163M	43.68M	33.198M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	18.231M	3.12M	18.831M	3.12M	12.374M	3.12M	15.952M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.96M	75.802M	81.6M	75.802M	82.68M	75.922M	81.48M	75.802M
5530MHz	Pass	Inf	81.72M	75.442M	80.88M	75.682M	81.72M	75.802M	81.72M	75.562M
5610MHz	Pass	Inf	82.44M	75.802M	82.32M	75.802M	81.96M	75.682M	81.24M	75.682M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	79.2M	72.864M	87.75M	72.489M	76.125M	72.639M	84.9M	72.789M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	30.225M	3.12M	33.023M	3.04M	27.366M	3.1M	29.205M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.9M	19.04M	22.17M	18.981M	21.93M	18.981M	21.72M	18.981M
5300MHz	Pass	Inf	21.9M	19.01M	21.3M	18.891M	21.51M	18.951M	21.66M	18.981M
5320MHz	Pass	Inf	21.81M	18.951M	22.02M	18.921M	21.63M	18.951M	21.18M	18.951M
5500MHz	Pass	Inf	21.36M	18.921M	21.24M	18.921M	21.18M	18.921M	20.94M	18.861M
5580MHz	Pass	Inf	27.09M	19.01M	26.64M	19.07M	21.42M	18.891M	26.19M	18.951M



EBW_Non-Beamforming_Radio 1_4T1S

Appendix A.1

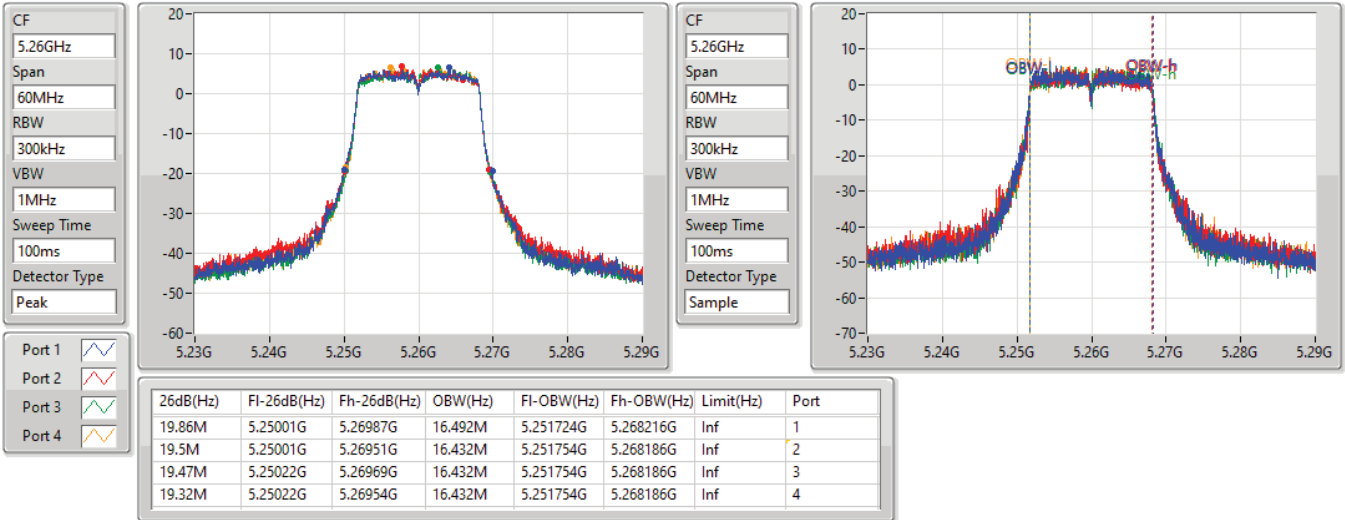
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5700MHz	Pass	Inf	21.39M	18.981M	20.61M	18.861M	21.27M	18.951M	21.3M	18.951M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	20.1M	14.573M	20.955M	14.558M	19.365M	14.498M	21.09M	14.573M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.48M	11.034M	4.44M	10.875M	4.5M	6.157M	4.36M	10.715M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	42.12M	37.961M	41.04M	37.961M	41.28M	38.201M	41.52M	38.081M
5310MHz	Pass	Inf	41.1M	37.841M	40.98M	37.901M	40.92M	38.021M	41.04M	37.901M
5510MHz	Pass	Inf	40.92M	37.901M	40.98M	37.961M	40.8M	37.841M	40.92M	38.021M
5550MHz	Pass	Inf	46.02M	38.081M	52.68M	38.081M	43.74M	38.081M	50.04M	38.141M
5670MHz	Pass	Inf	40.98M	37.781M	40.44M	37.781M	41.28M	37.961M	40.98M	37.961M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	45.815M	34.038M	47.81M	33.933M	42.84M	33.863M	47.11M	34.003M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	17.671M	4M	23.548M	4.1M	19.23M	4.04M	21.569M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.32M	77.361M	82.32M	77.601M	82.68M	77.121M	82.44M	77.481M
5530MHz	Pass	Inf	82.08M	77.601M	82.2M	77.361M	82.2M	77.121M	82.8M	77.601M
5610MHz	Pass	Inf	82.2M	77.721M	82.2M	77.361M	81.96M	77.481M	82.08M	77.481M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.65M	73.688M	79.05M	73.388M	76.875M	73.388M	76.875M	73.763M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.06M	30.205M	4.12M	33.243M	4.06M	28.746M	3.98M	30.485M

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

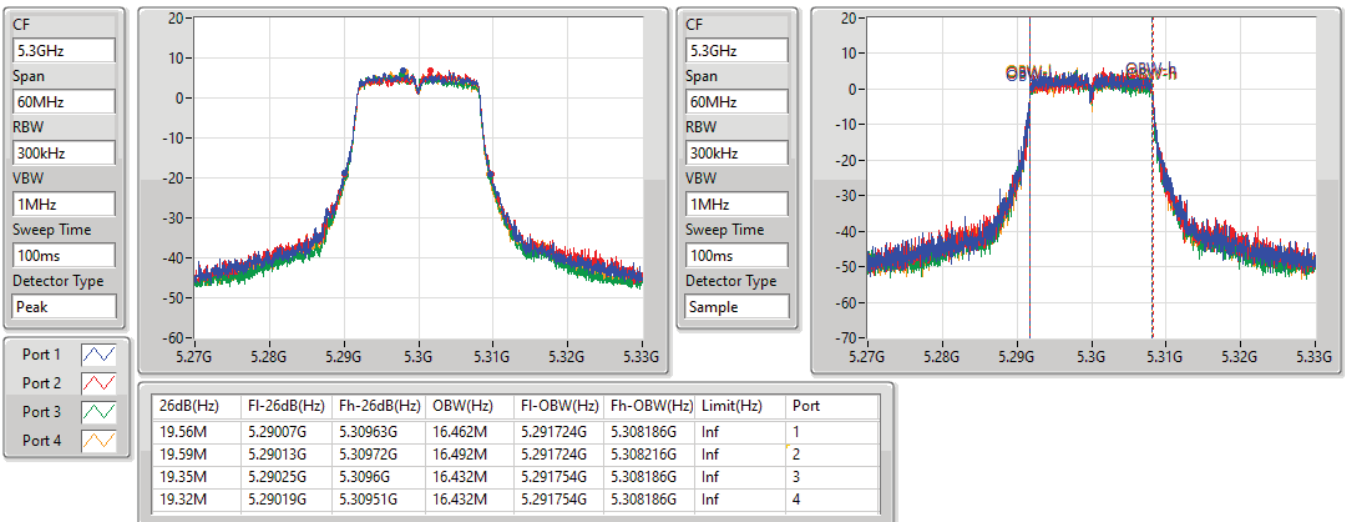
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX
EBW
5260MHz

04/06/2021


802.11a_Nss1,(6Mbps)_4TX
EBW
5300MHz

04/06/2021

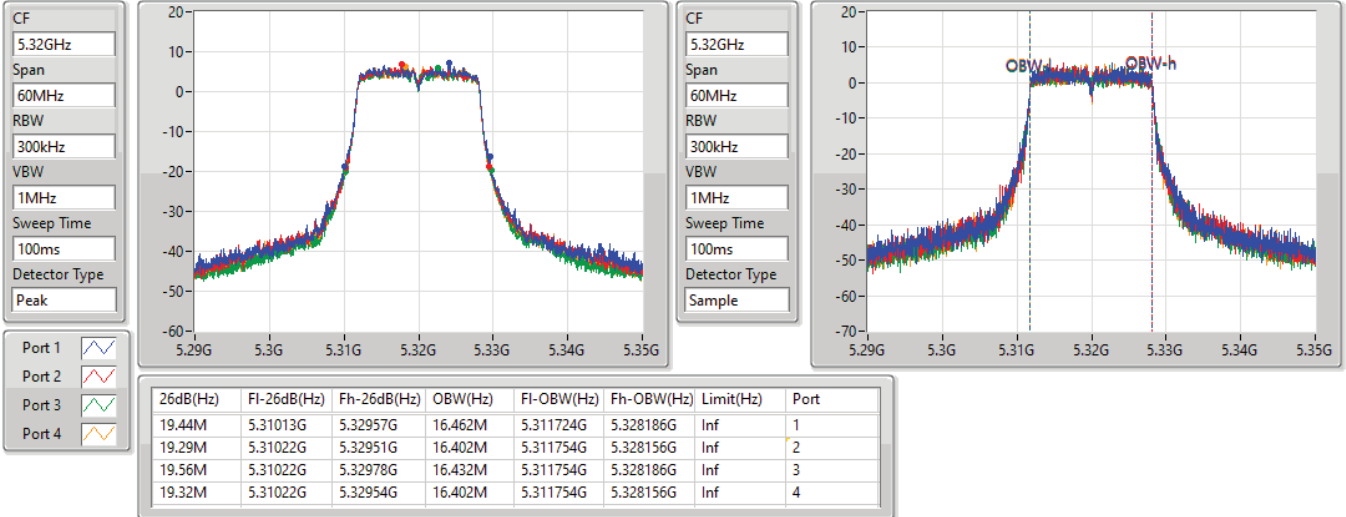


802.11a_Nss1,(6Mbps)_4TX

EBW

5320MHz

04/06/2021

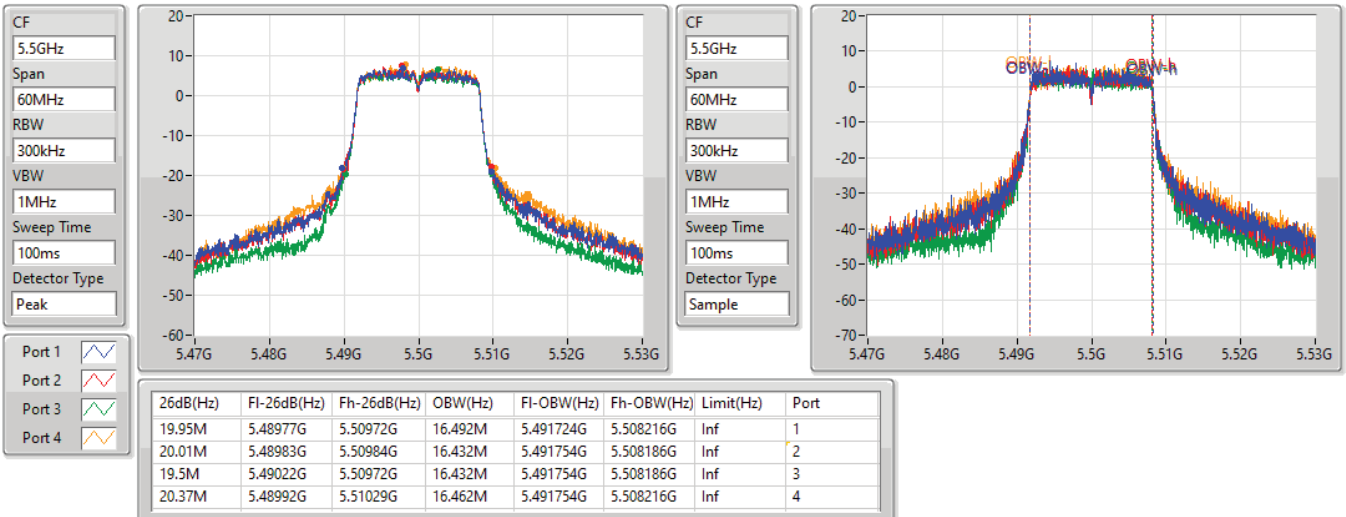


802.11a_Nss1,(6Mbps)_4TX

EBW

5500MHz

04/06/2021

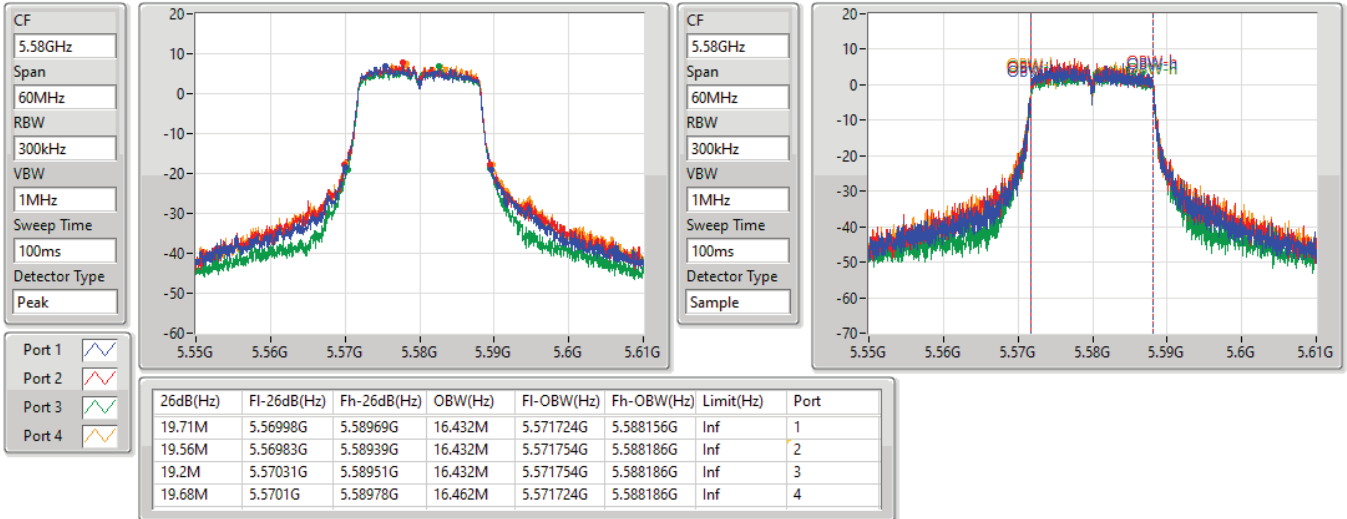


802.11a_Nss1,(6Mbps)_4TX

EBW

5580MHz

04/06/2021

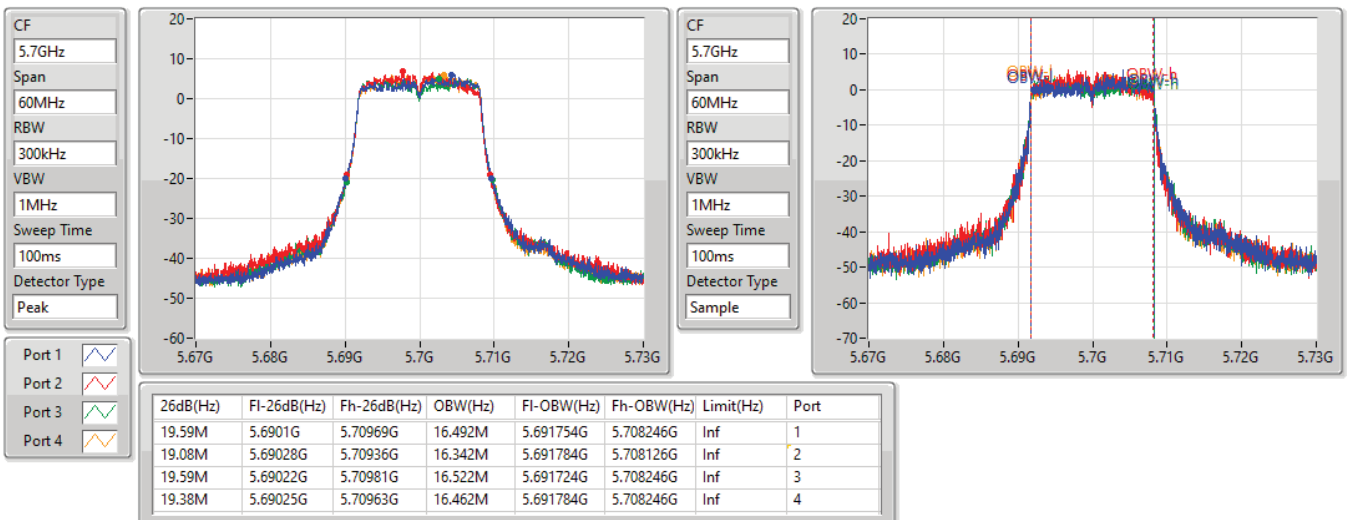


802.11a_Nss1,(6Mbps)_4TX

EBW

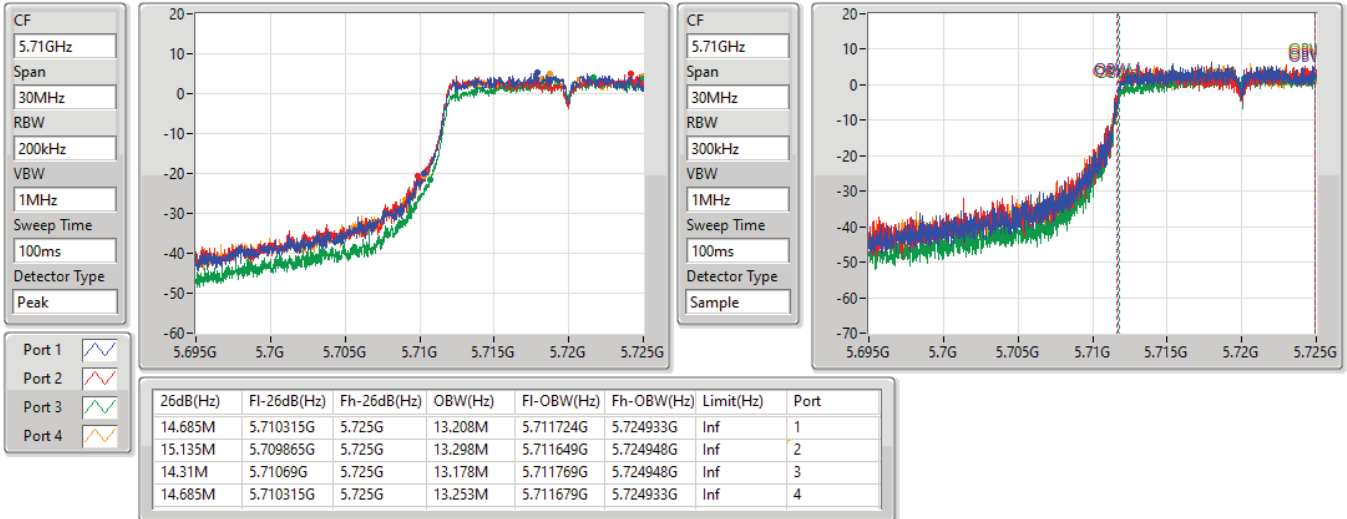
5700MHz

04/06/2021

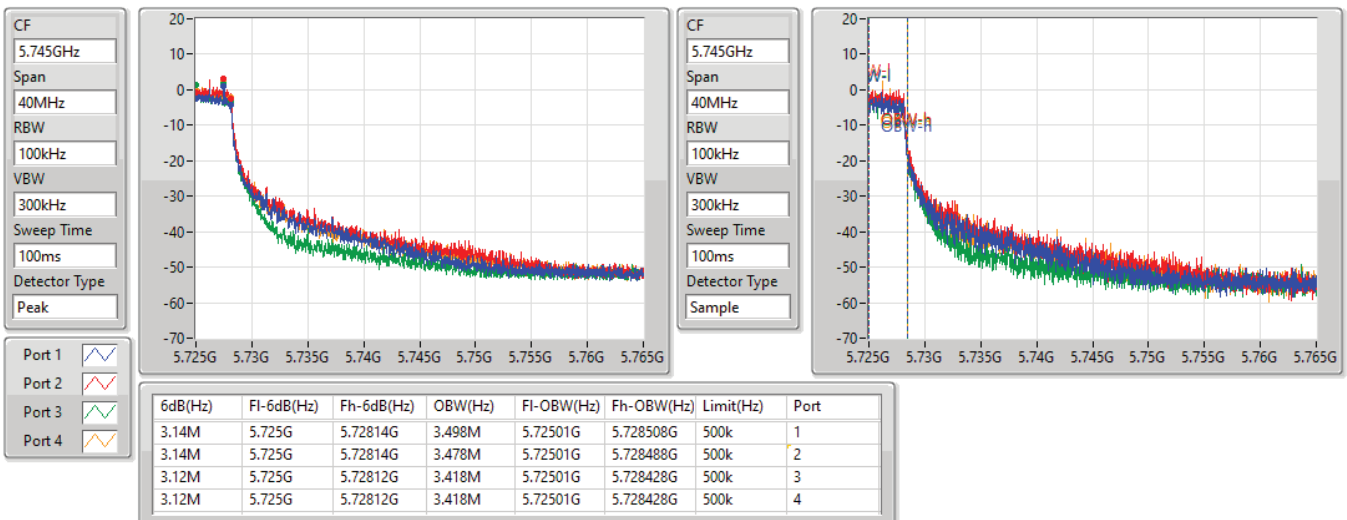


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

04/06/2021


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

04/06/2021

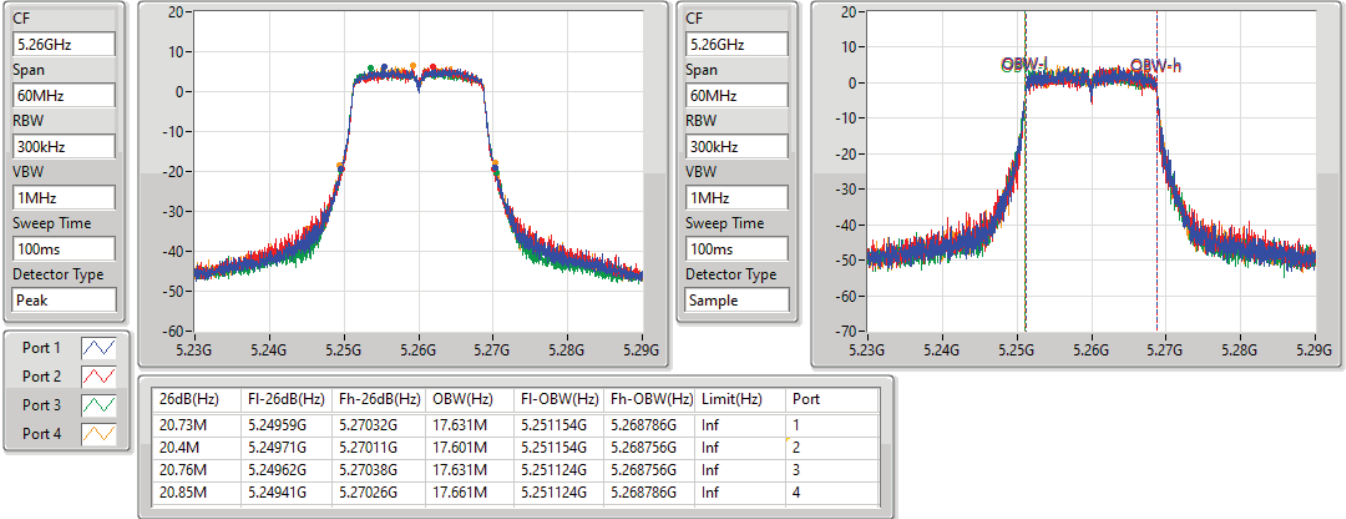


802.11n HT20_Nss1,(MCS0)_4TX

EBW

5260MHz

04/06/2021

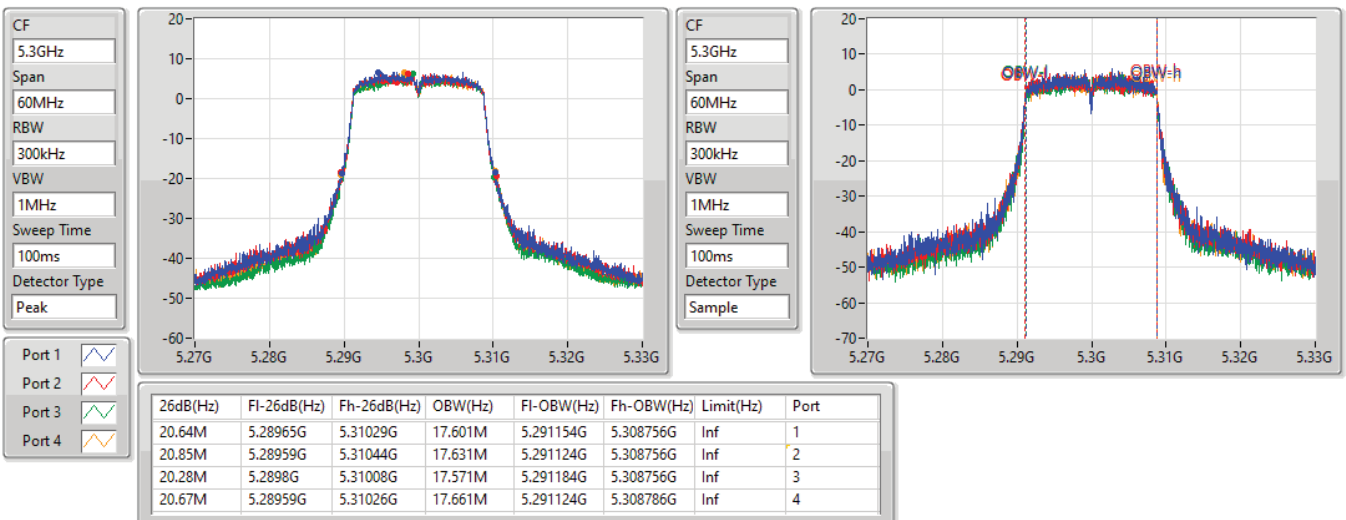


802.11n HT20_Nss1,(MCS0)_4TX

EBW

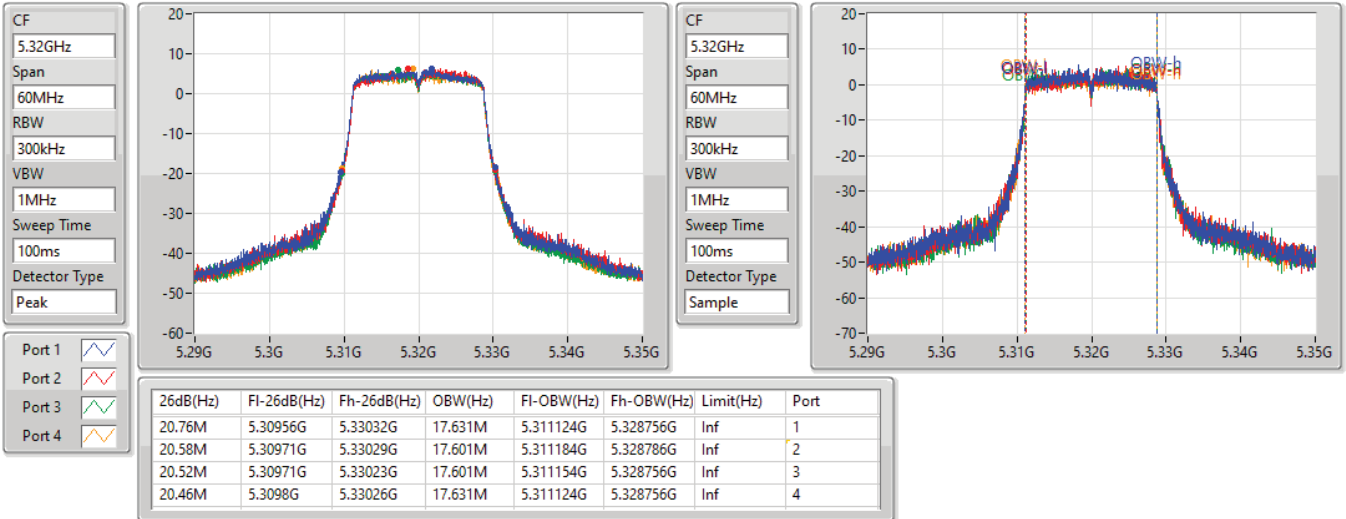
5300MHz

04/06/2021

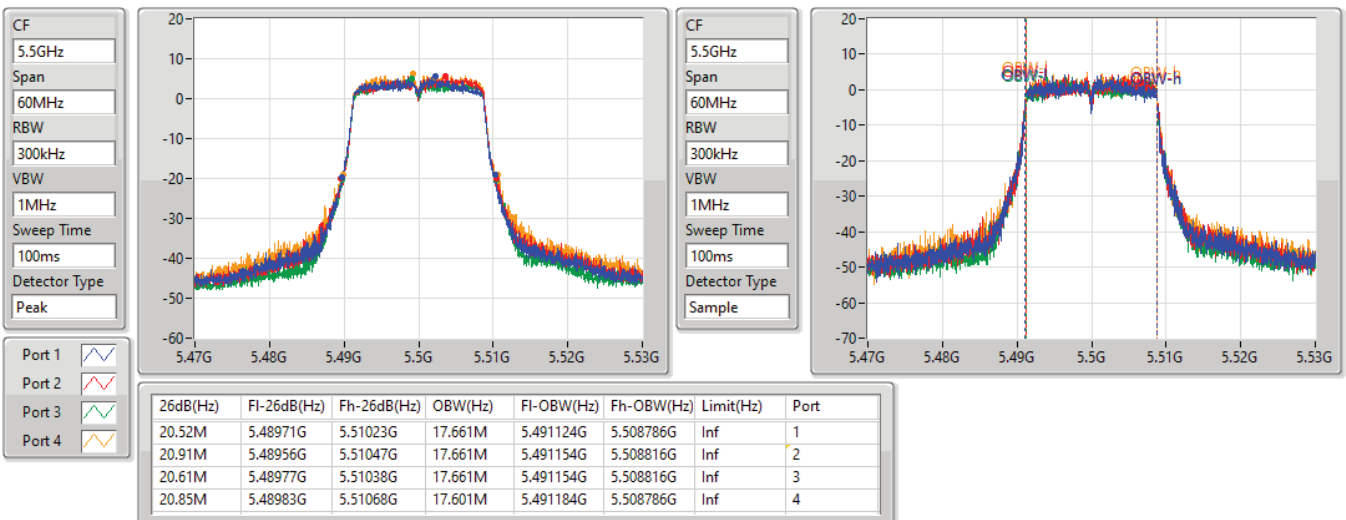


802.11n HT20_Nss1,(MCS0)_4TX
EBW
5320MHz

04/06/2021


802.11n HT20_Nss1,(MCS0)_4TX
EBW
5500MHz

04/06/2021

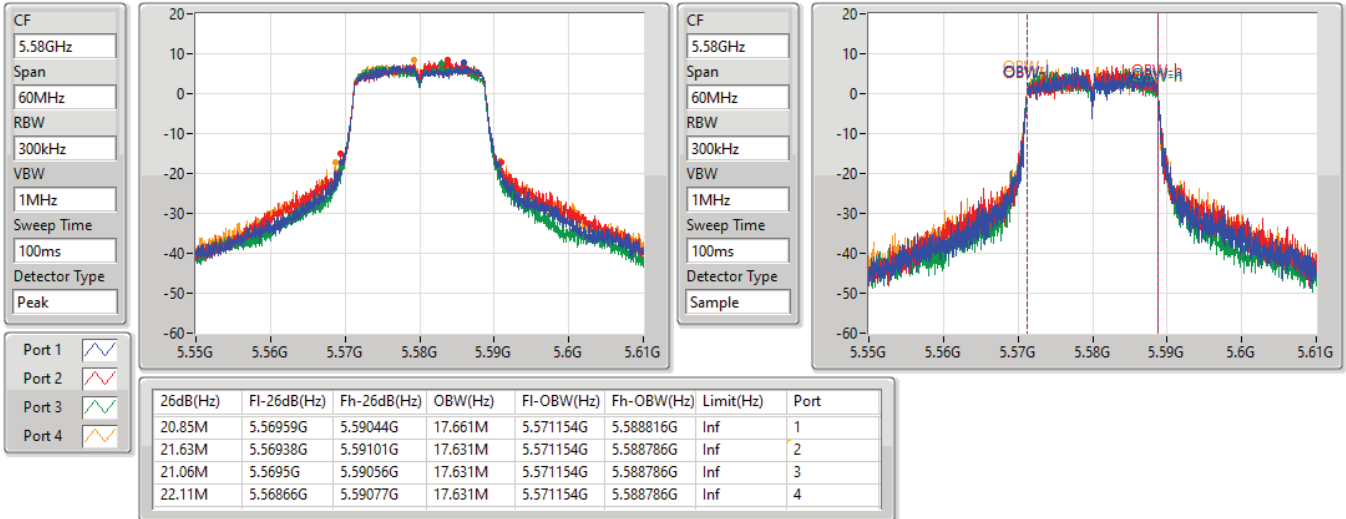


802.11n HT20_Nss1,(MCS0)_4TX

EBW

5580MHz

04/06/2021

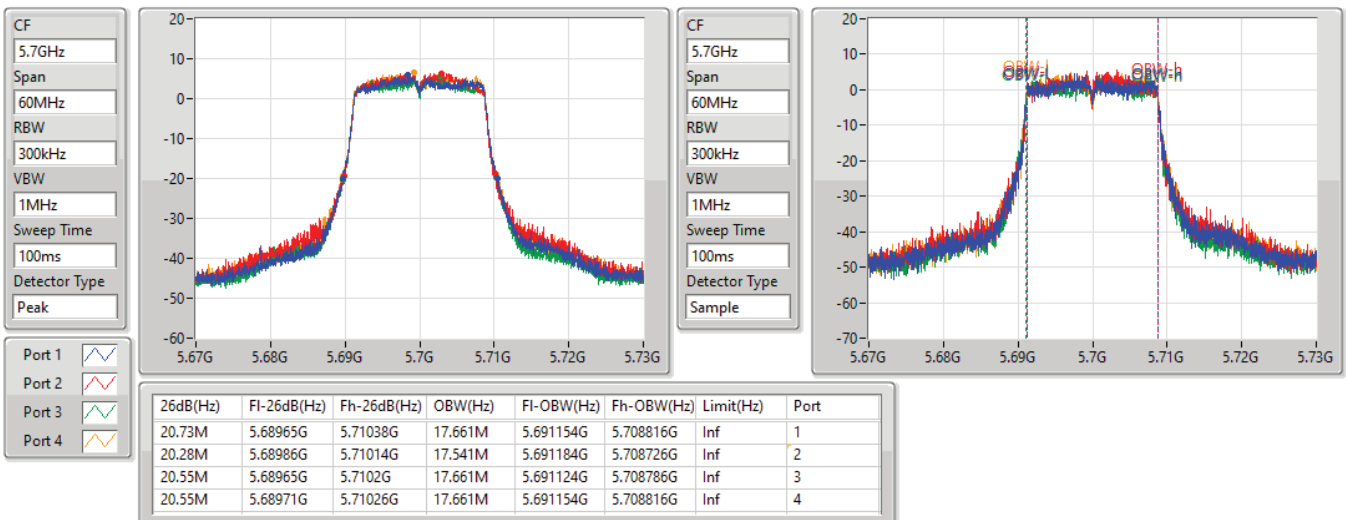


802.11n HT20_Nss1,(MCS0)_4TX

EBW

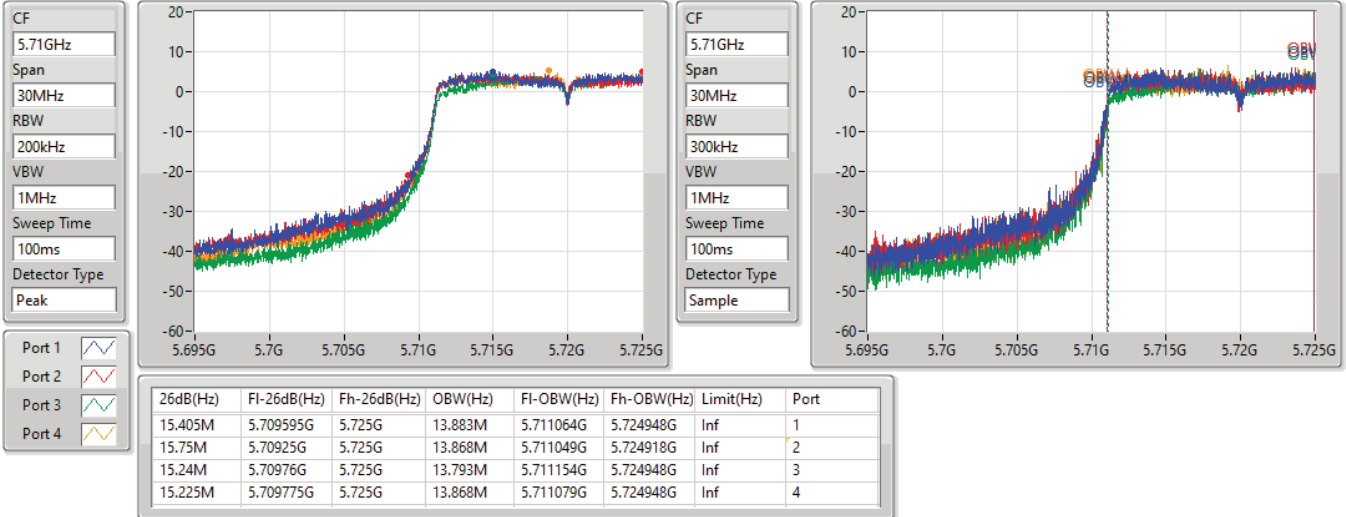
5700MHz

04/06/2021

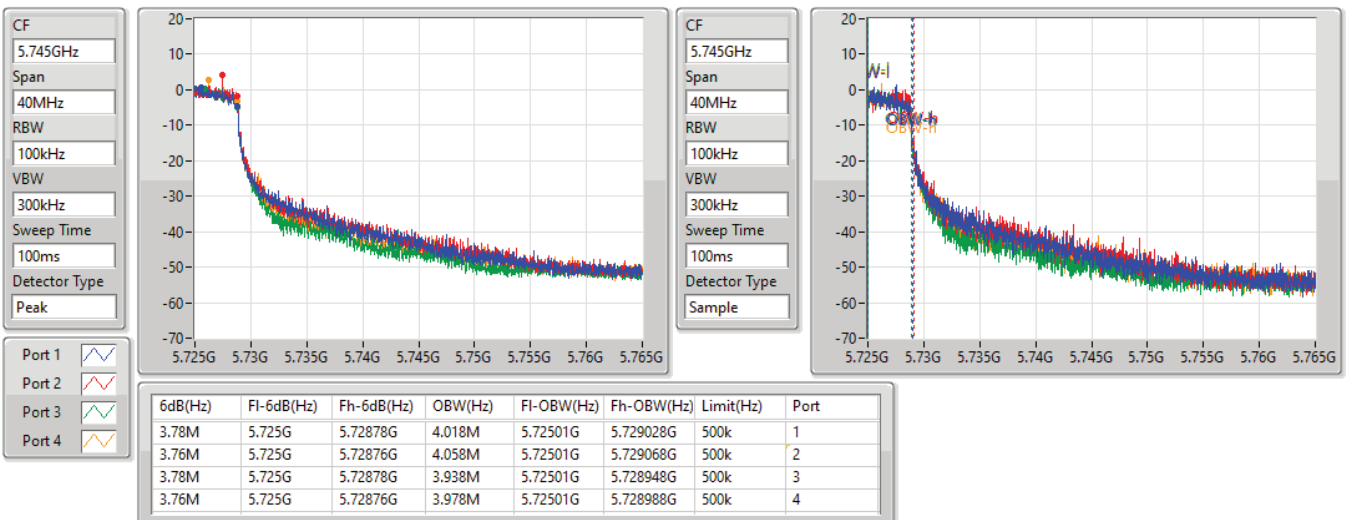


802.11n HT20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

04/06/2021


802.11n HT20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

04/06/2021

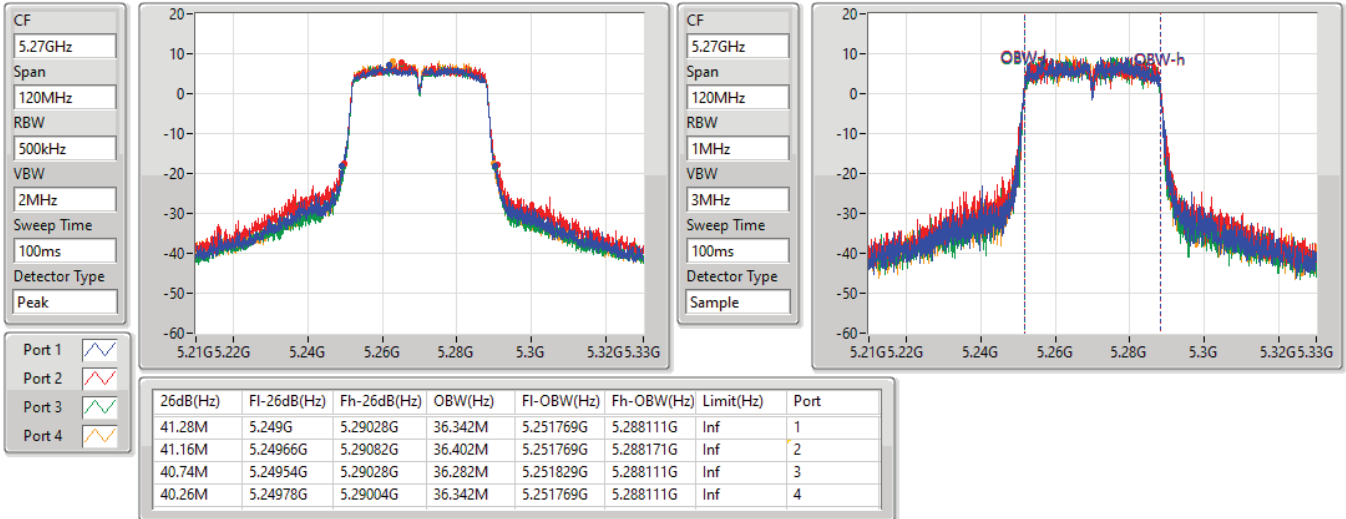


802.11n HT40_Nss1,(MCS0)_4TX

EBW

5270MHz

05/06/2021

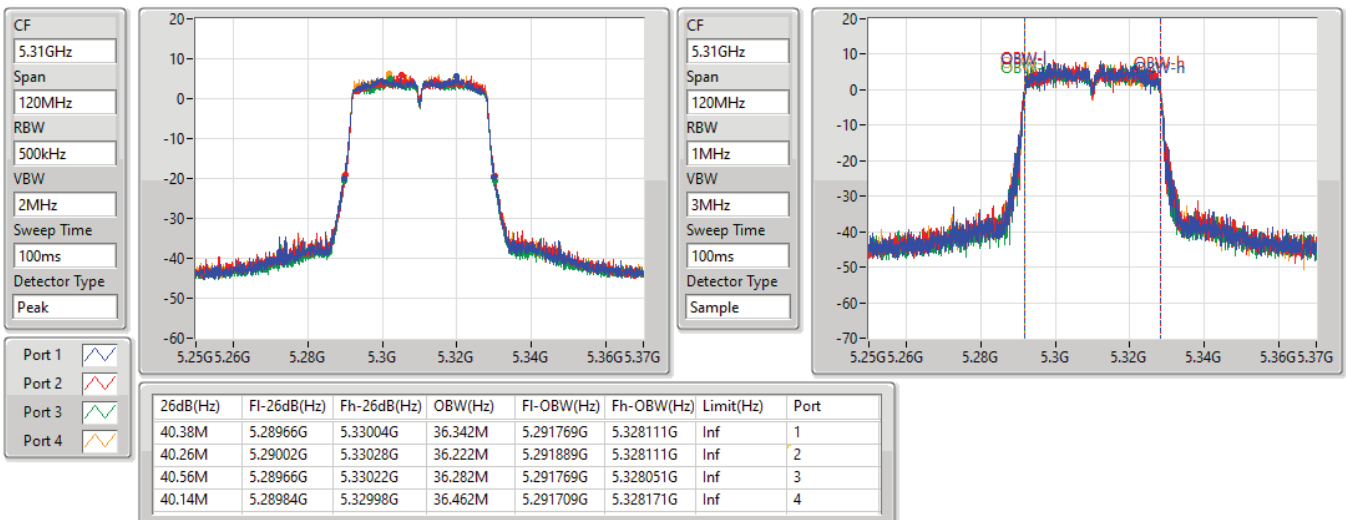


802.11n HT40_Nss1,(MCS0)_4TX

EBW

5310MHz

05/06/2021

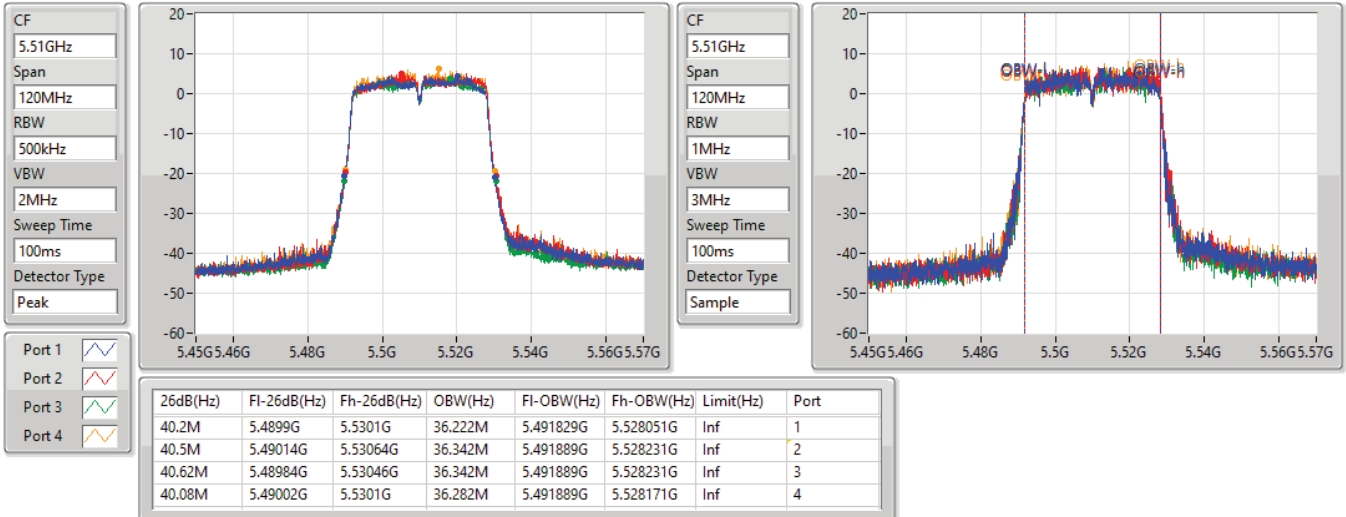


802.11n HT40_Nss1,(MCS0)_4TX

EBW

5510MHz

04/06/2021

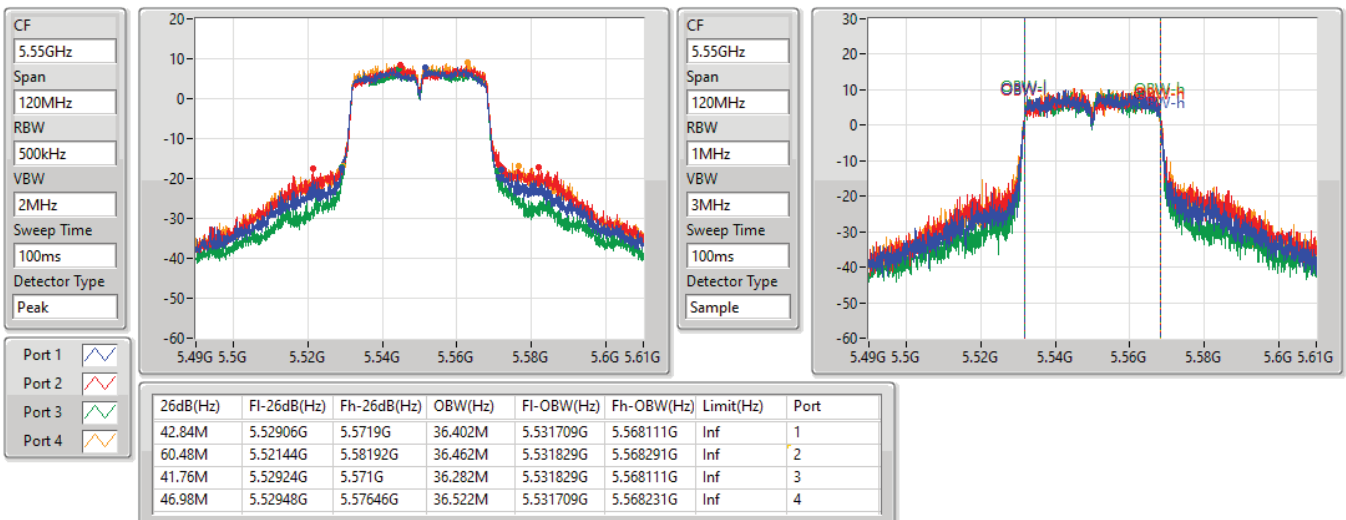


802.11n HT40_Nss1,(MCS0)_4TX

EBW

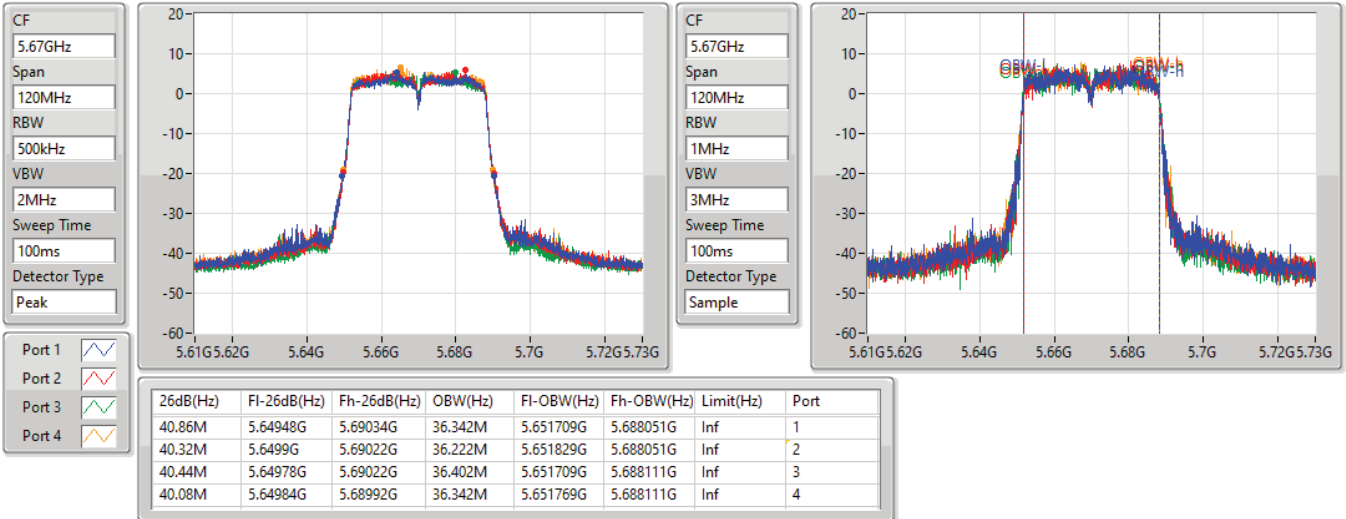
5550MHz

04/06/2021

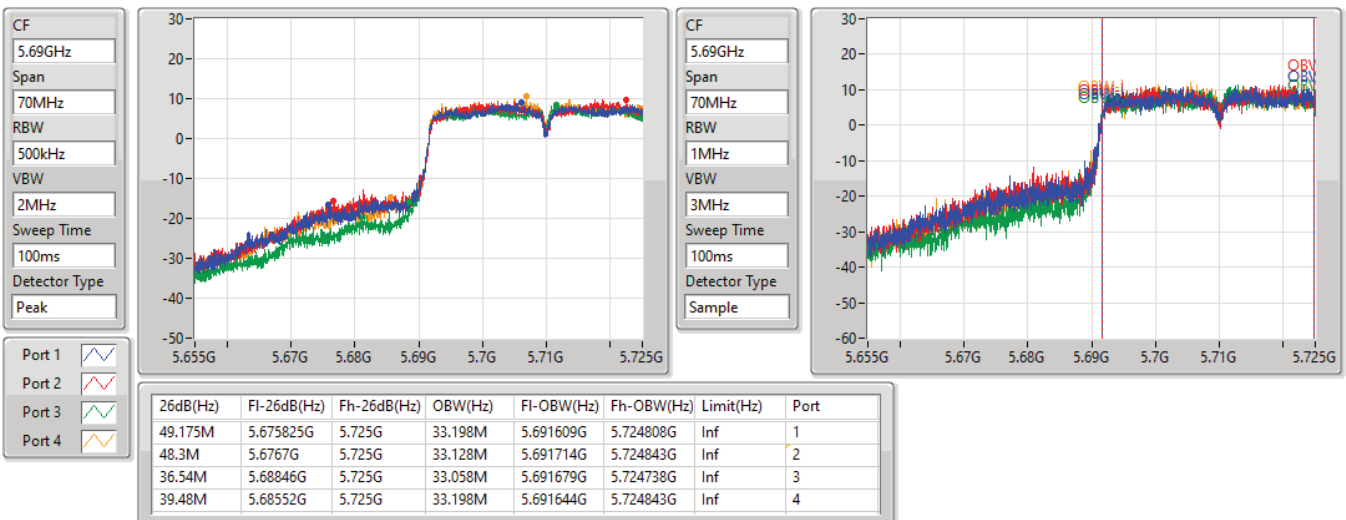


802.11n HT40_Nss1,(MCS0)_4TX
EBW
5670MHz

04/06/2021

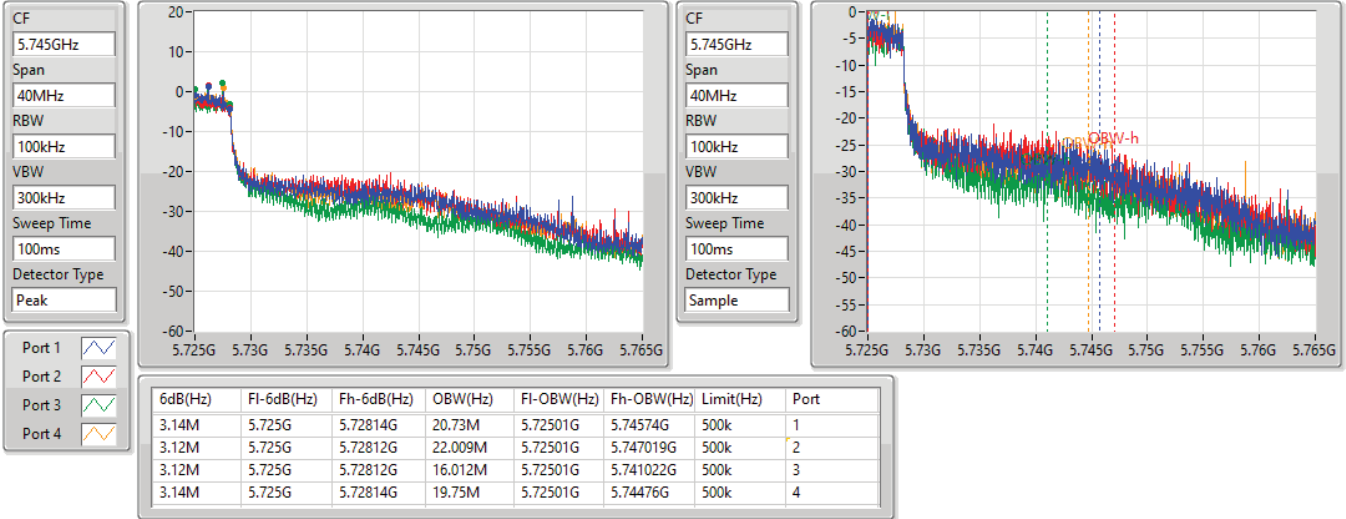

802.11n HT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

04/06/2021

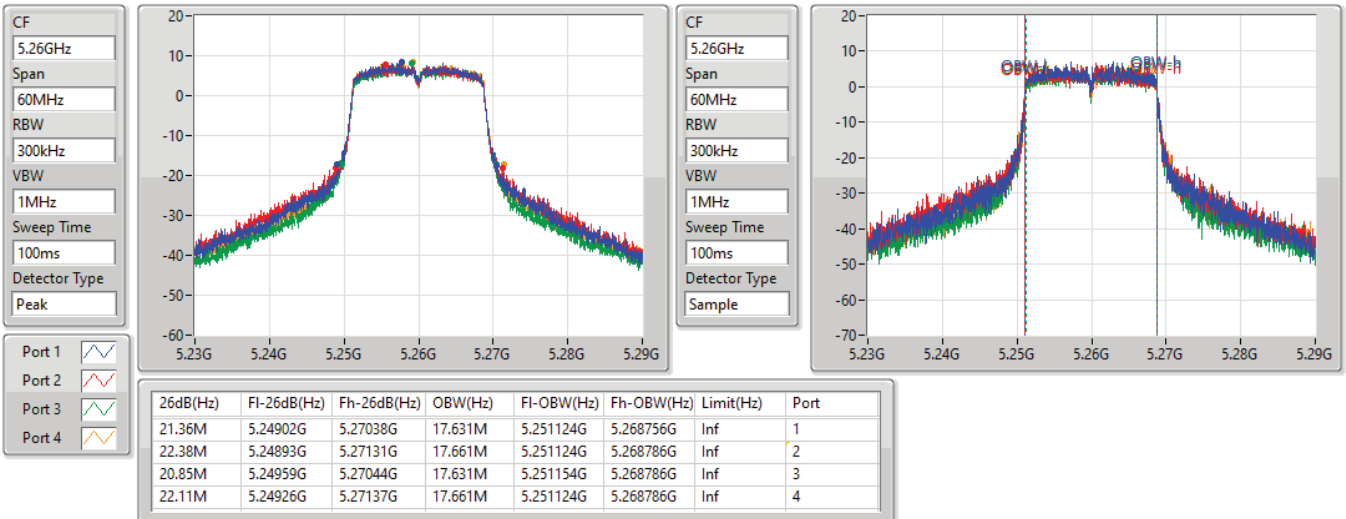


802.11n HT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

04/06/2021


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5260MHz

04/06/2021

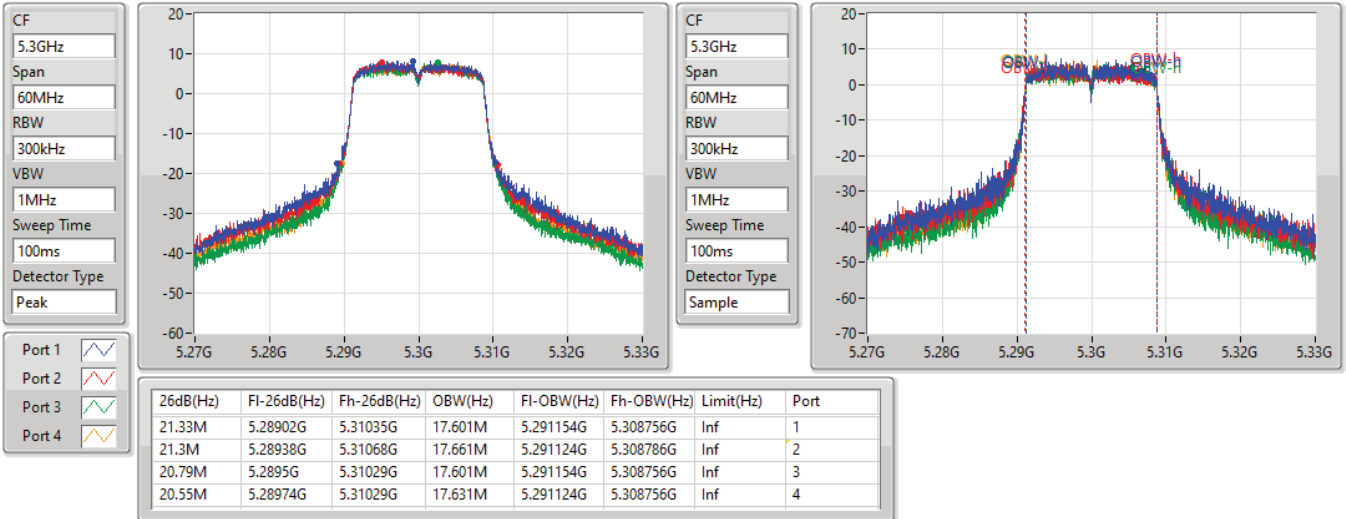


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5300MHz

04/06/2021

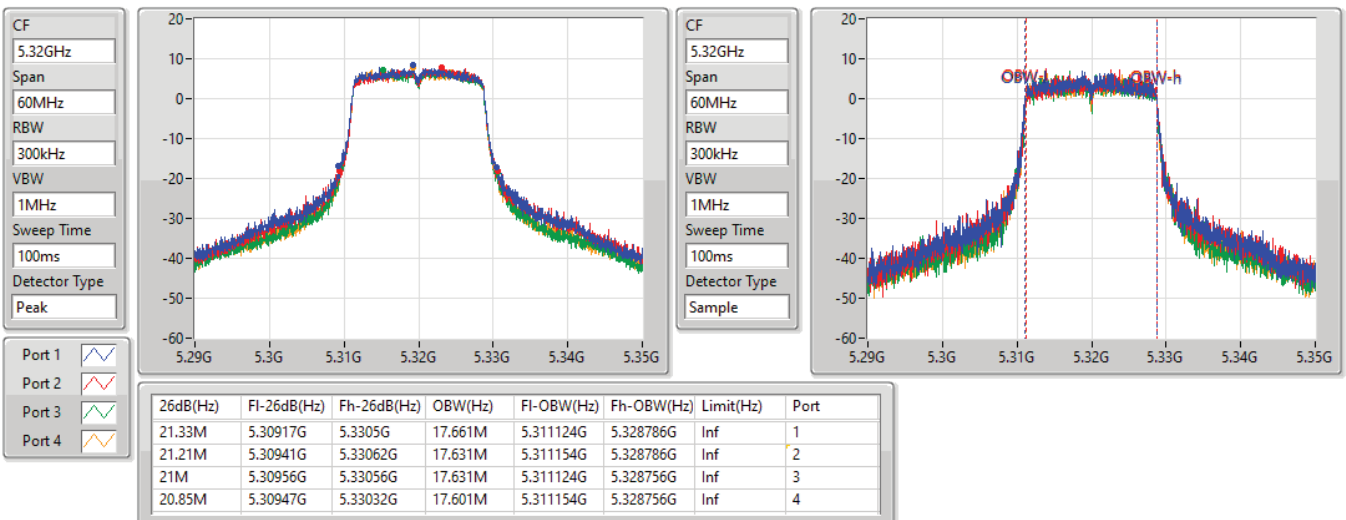


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

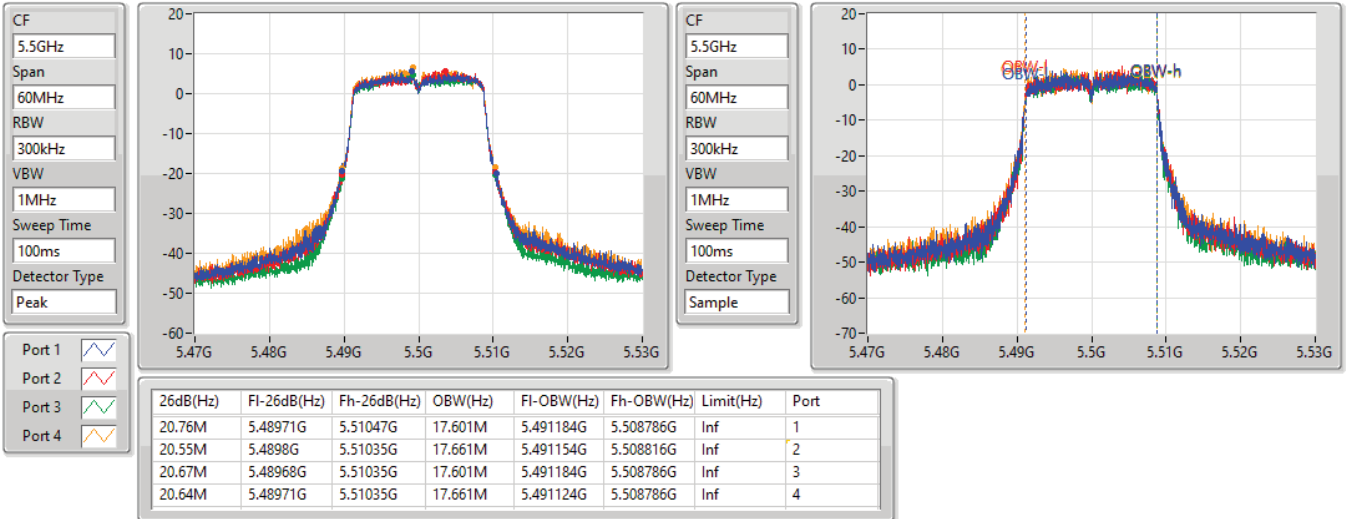
5320MHz

04/06/2021

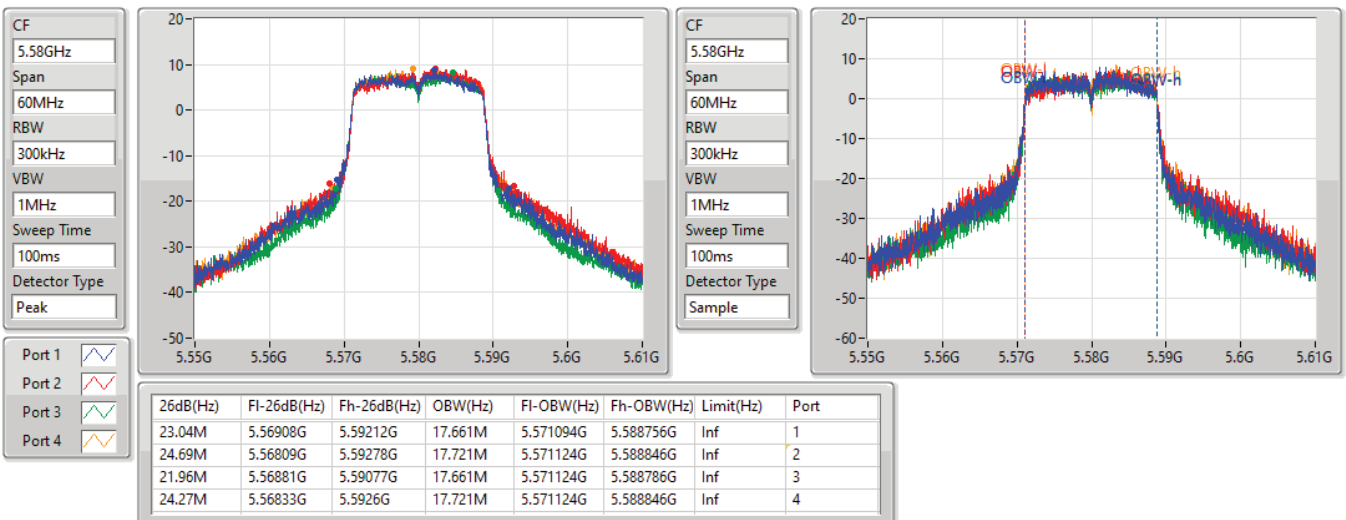


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5500MHz

04/06/2021


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5580MHz

04/06/2021

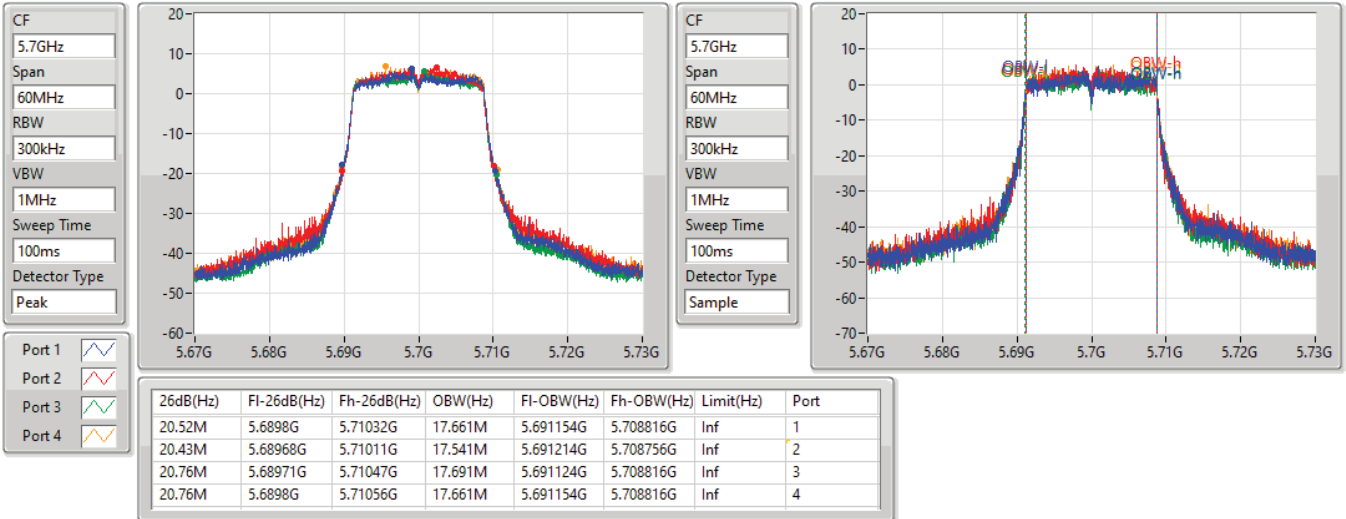


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5700MHz

04/06/2021

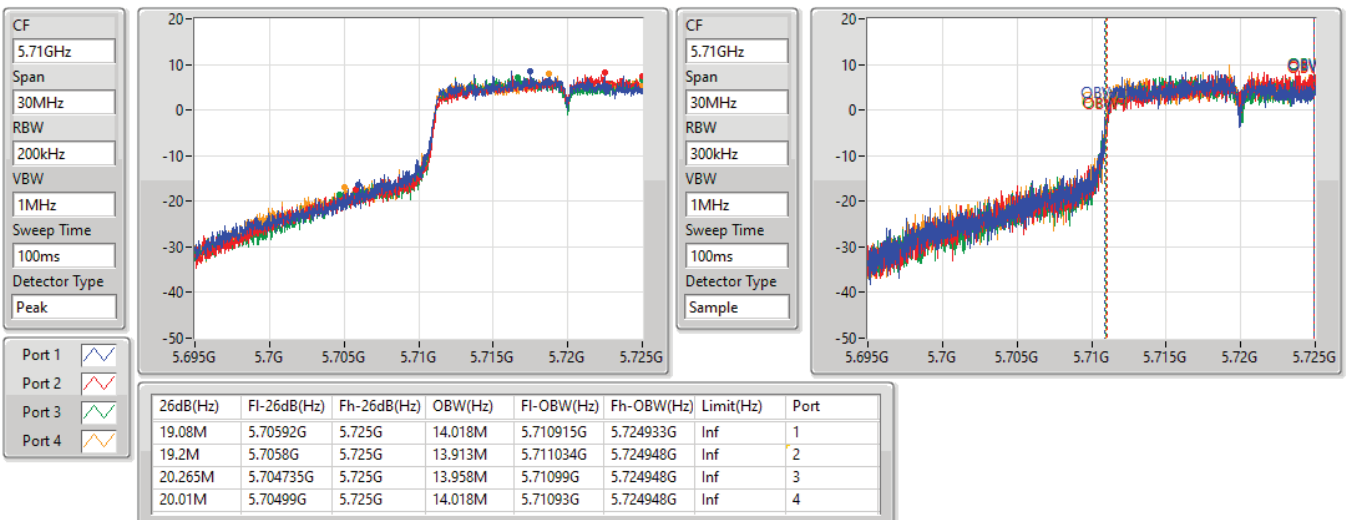


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

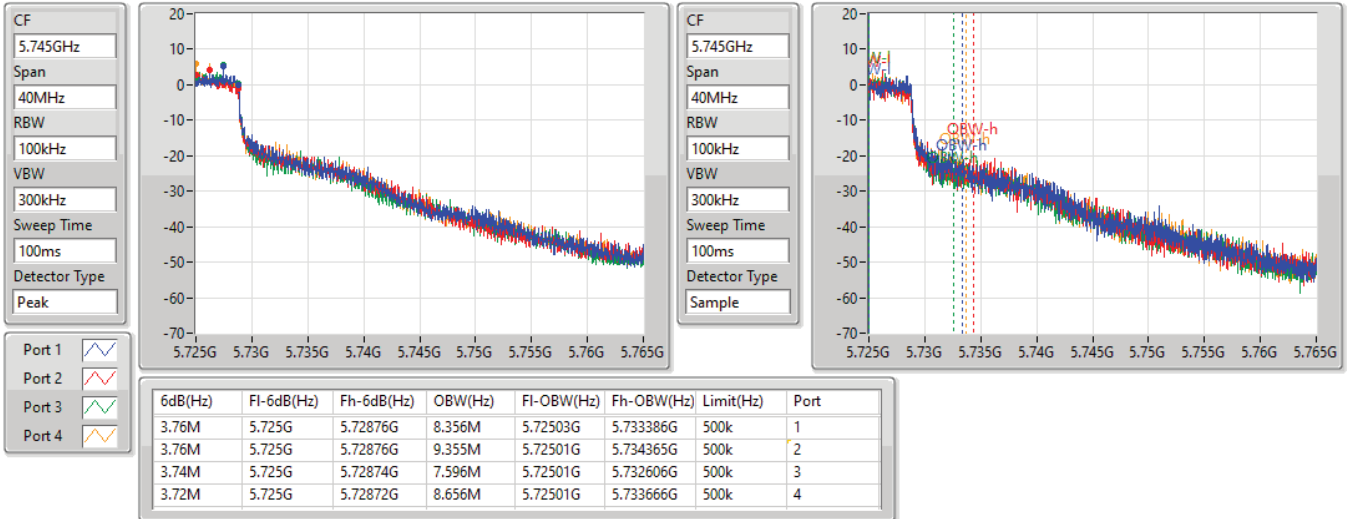
5720MHz Straddle 5.47-5.725GHz

04/06/2021

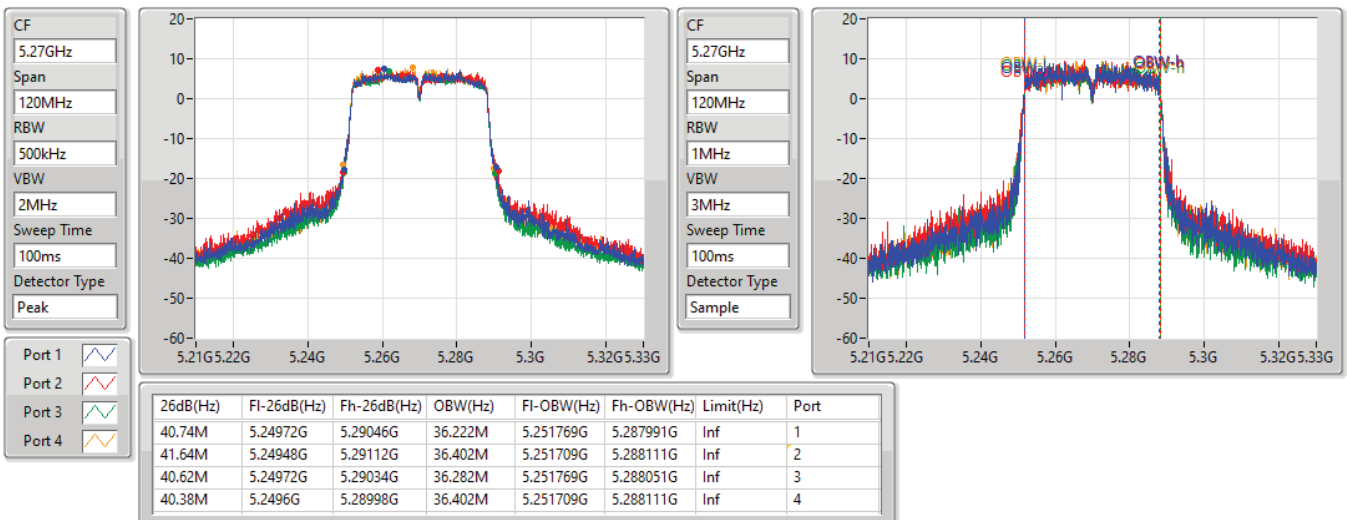


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

04/06/2021


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5270MHz

04/06/2021

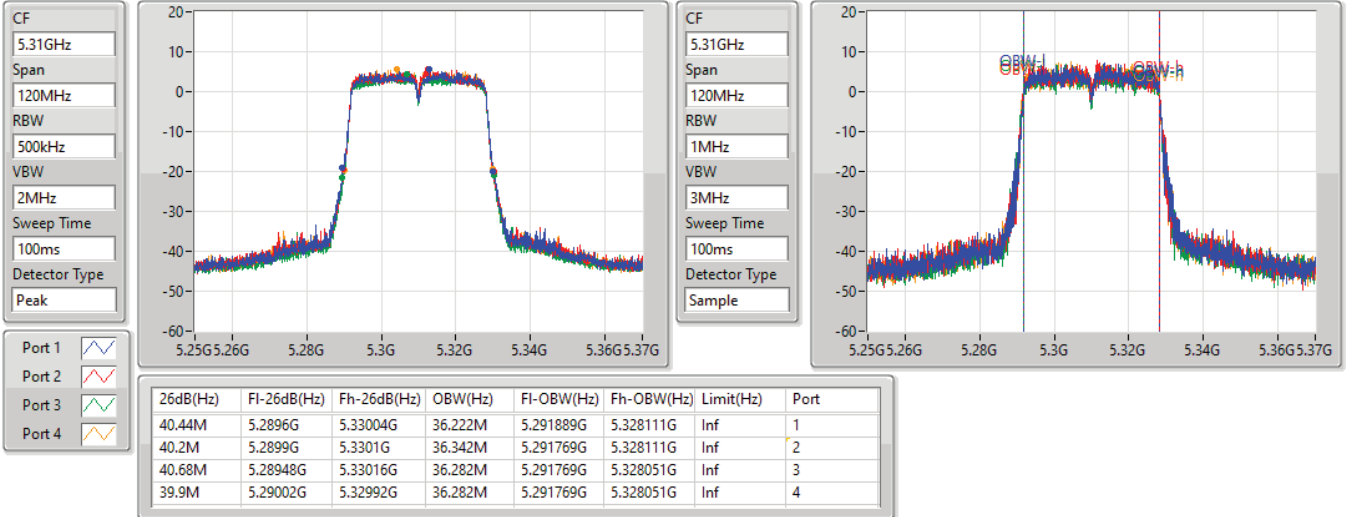


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5310MHz

04/06/2021

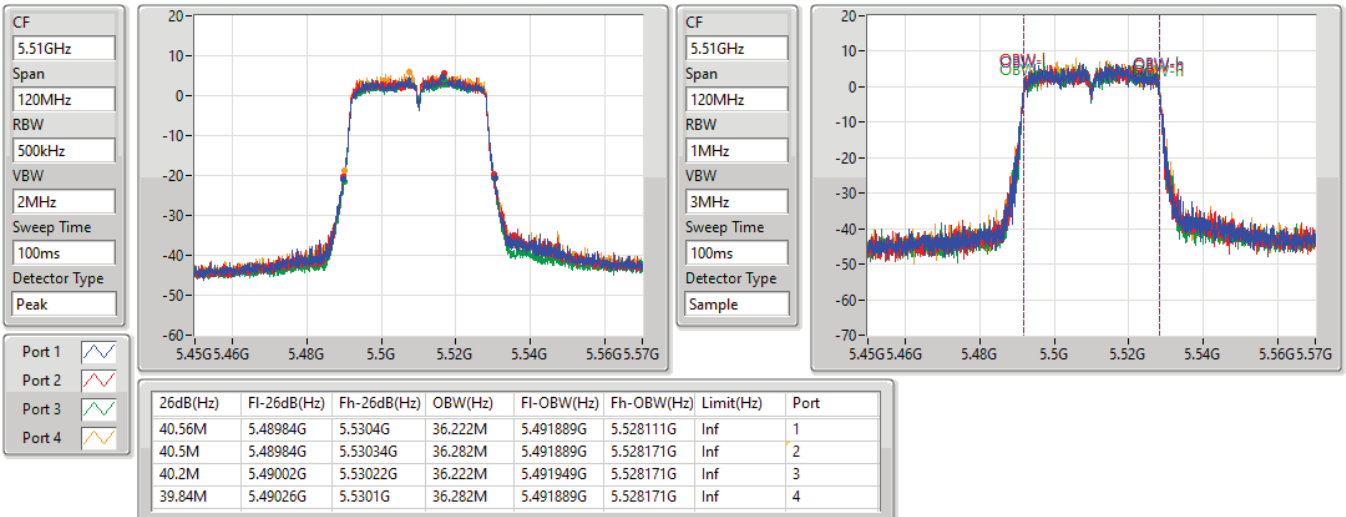


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

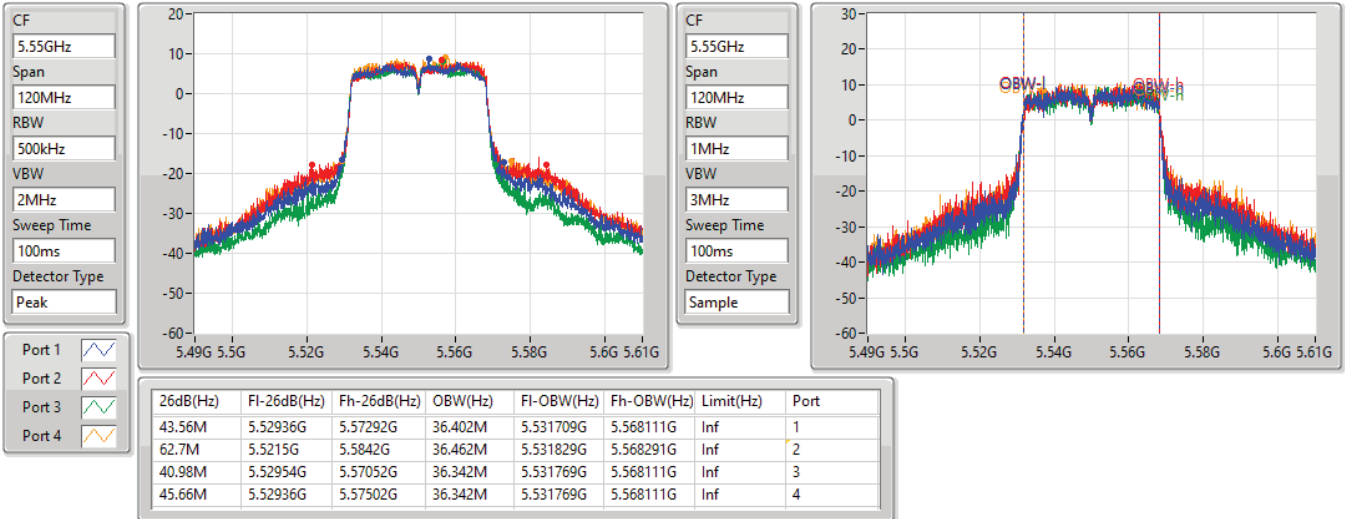
5510MHz

04/06/2021

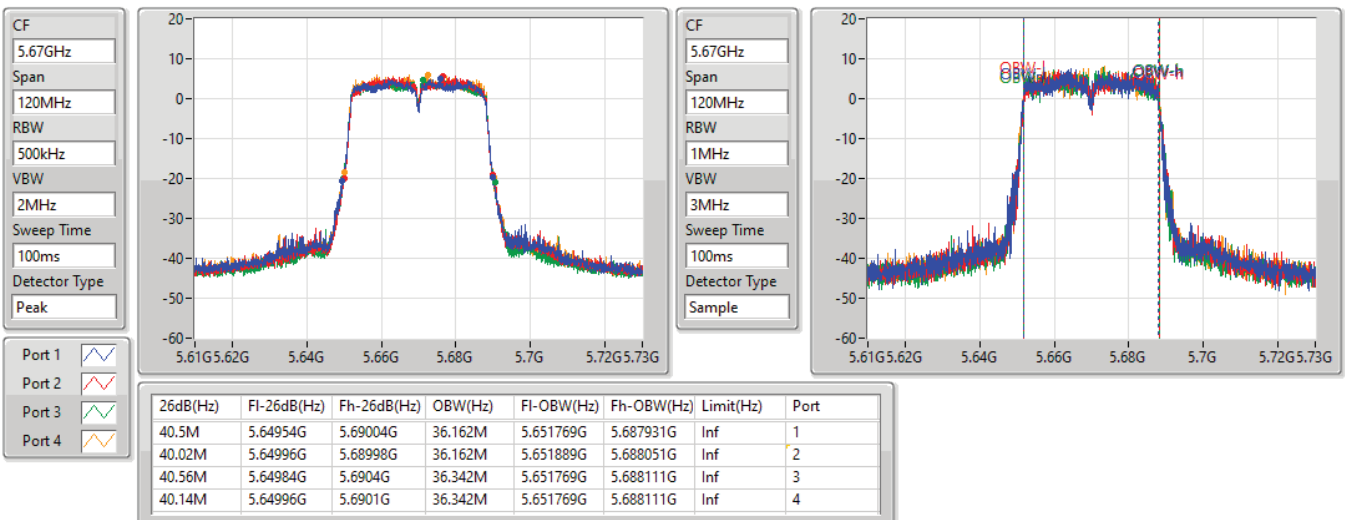


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5550MHz

04/06/2021

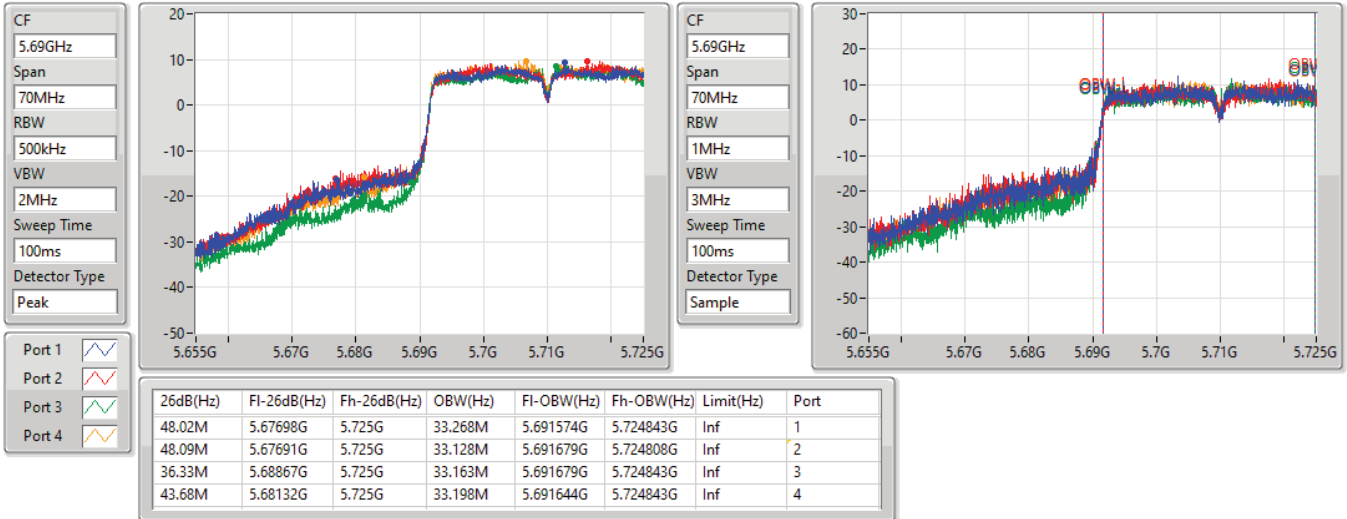

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5670MHz

04/06/2021

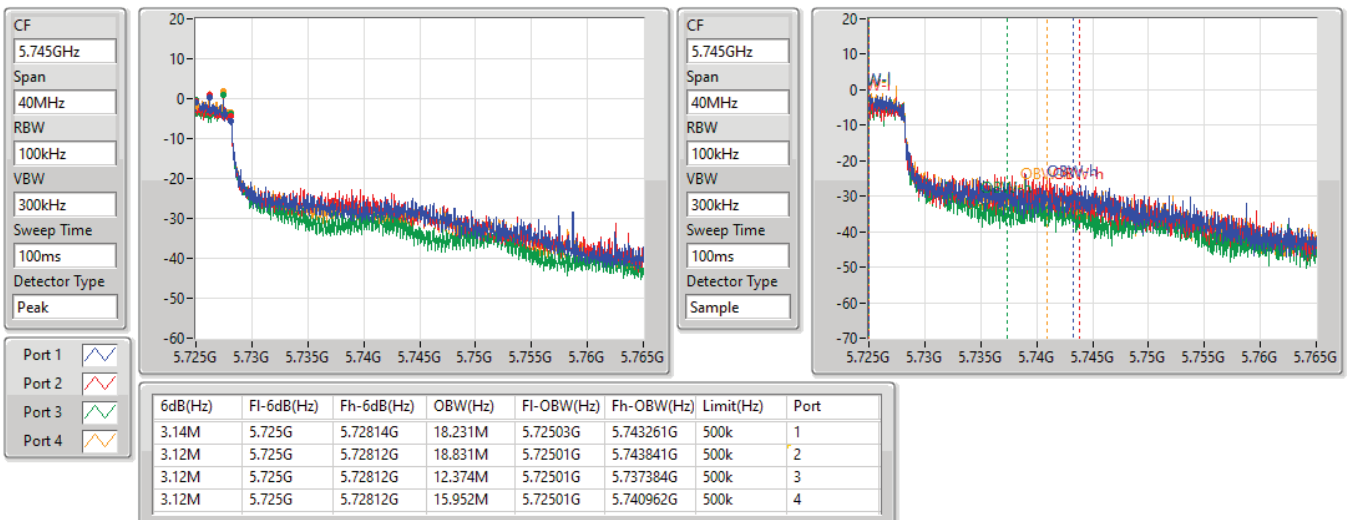


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

04/06/2021


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

04/06/2021

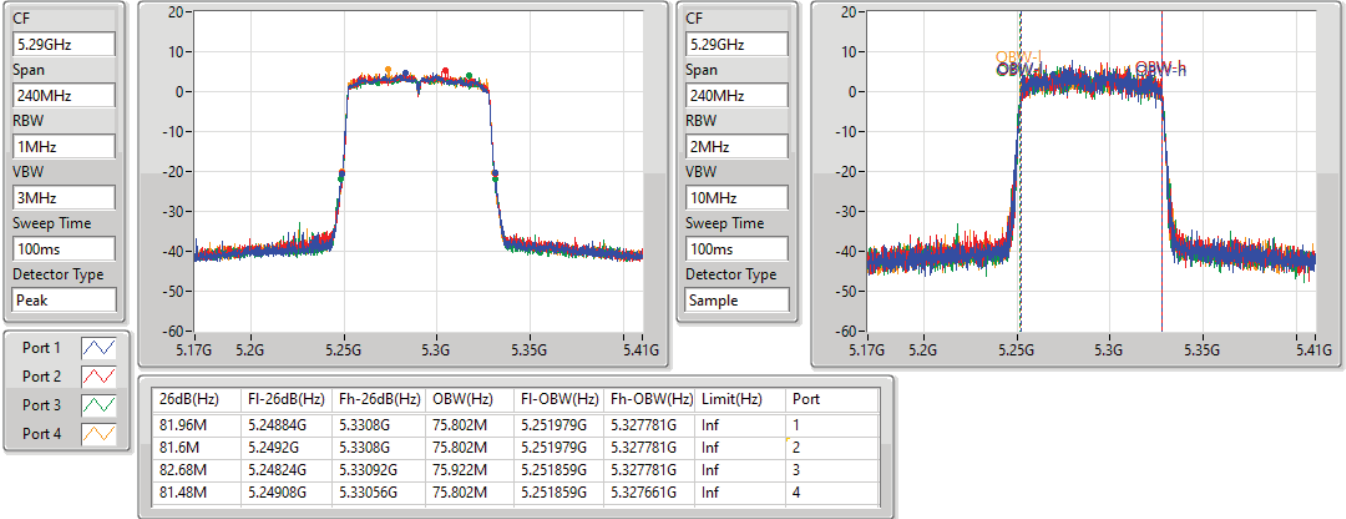


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5290MHz

04/06/2021

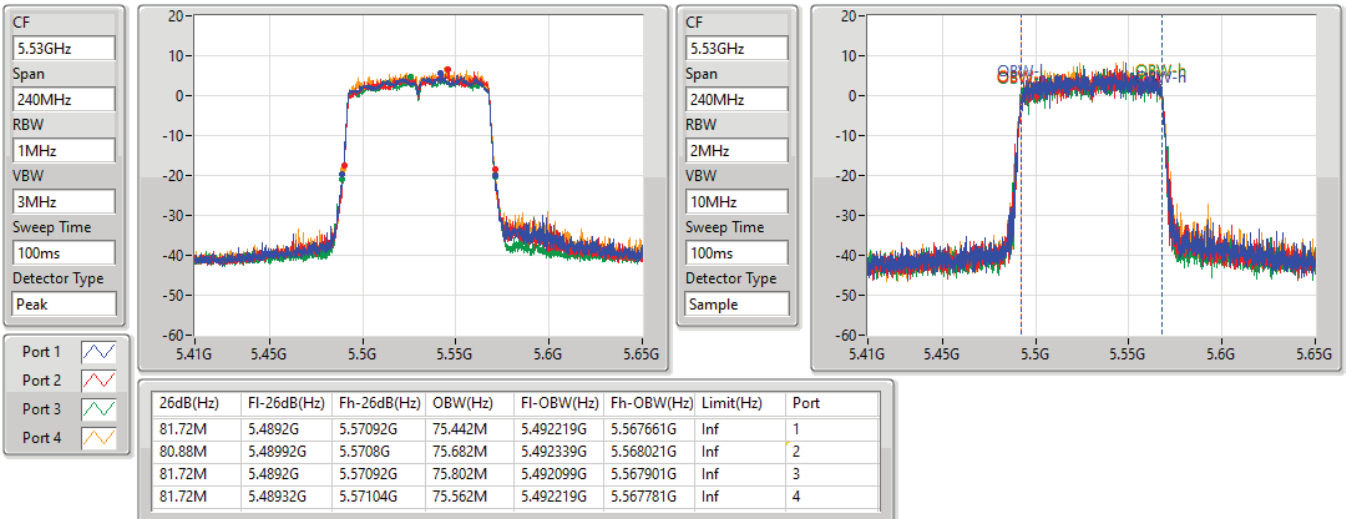


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

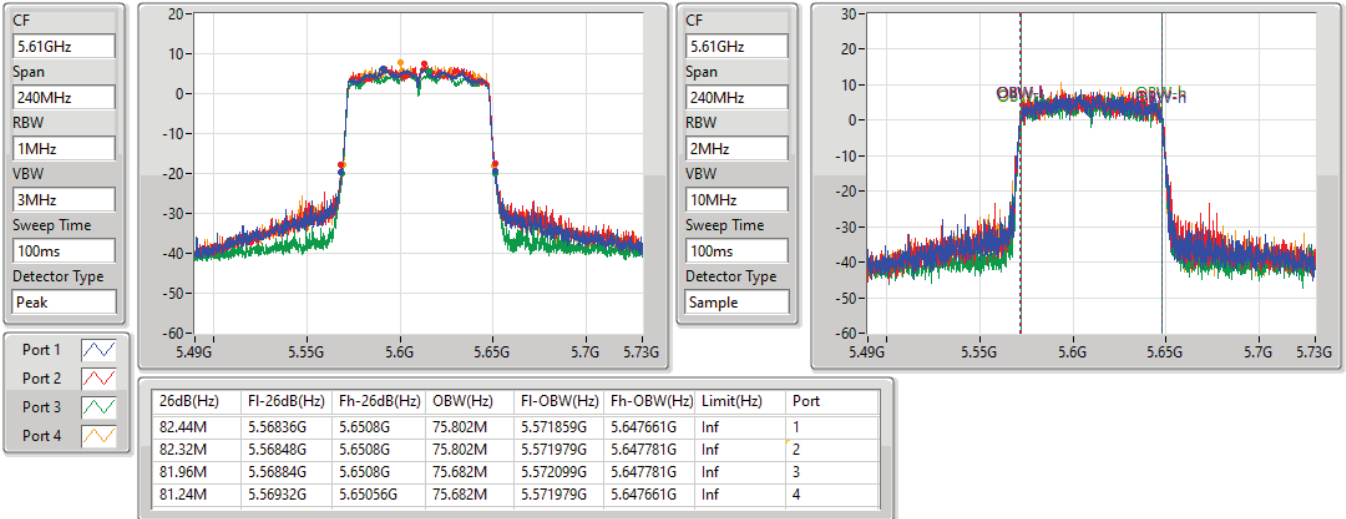
5530MHz

04/06/2021

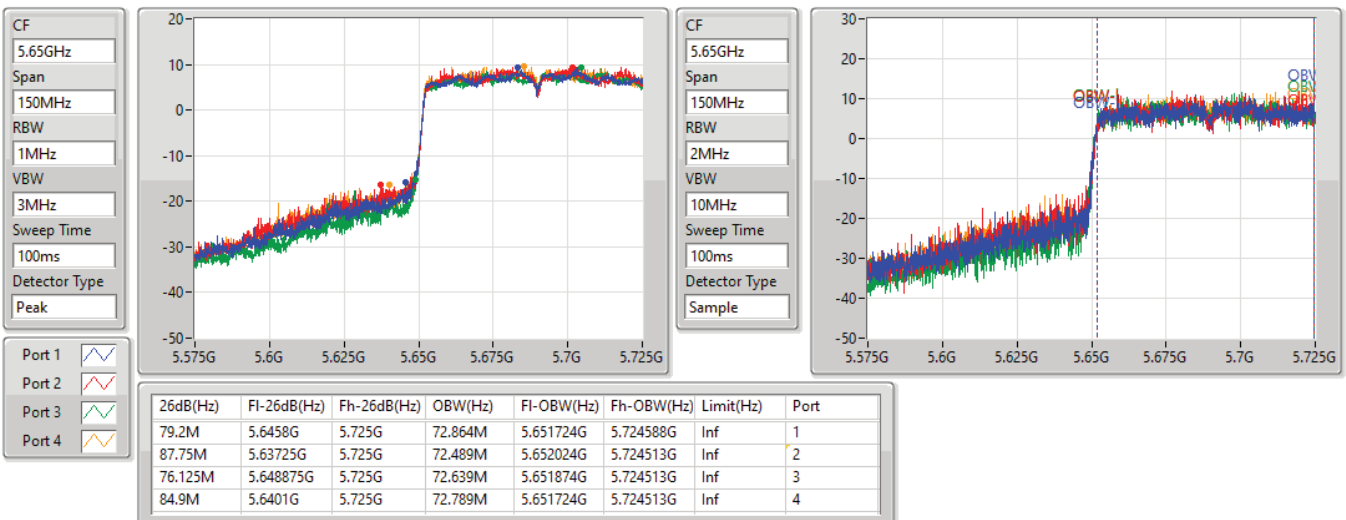


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5610MHz

04/06/2021

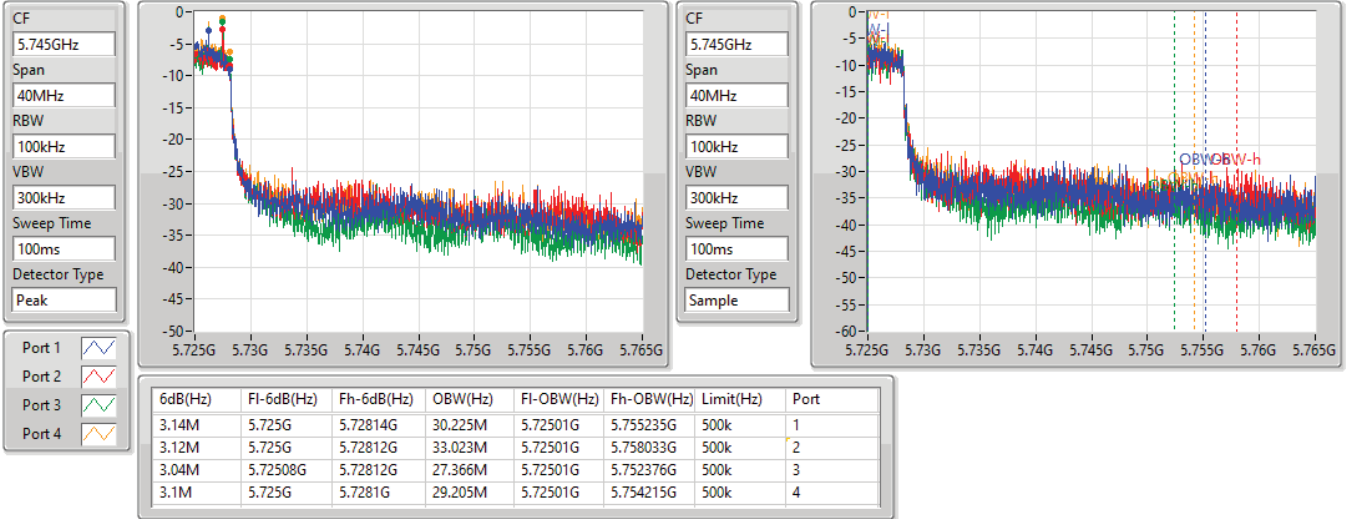

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

04/06/2021

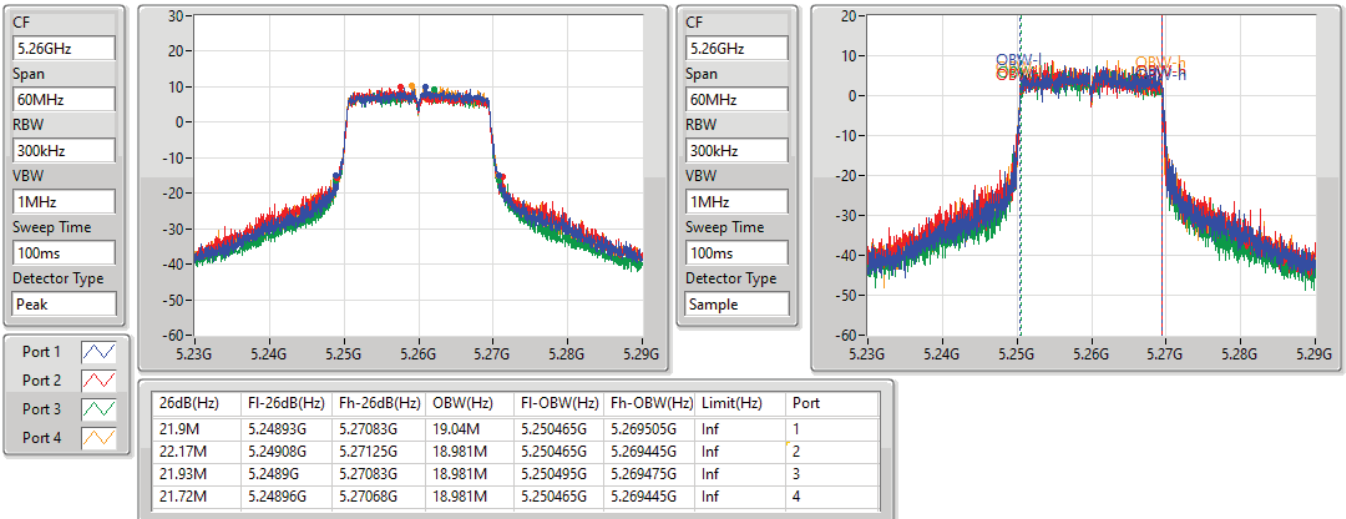


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

04/06/2021

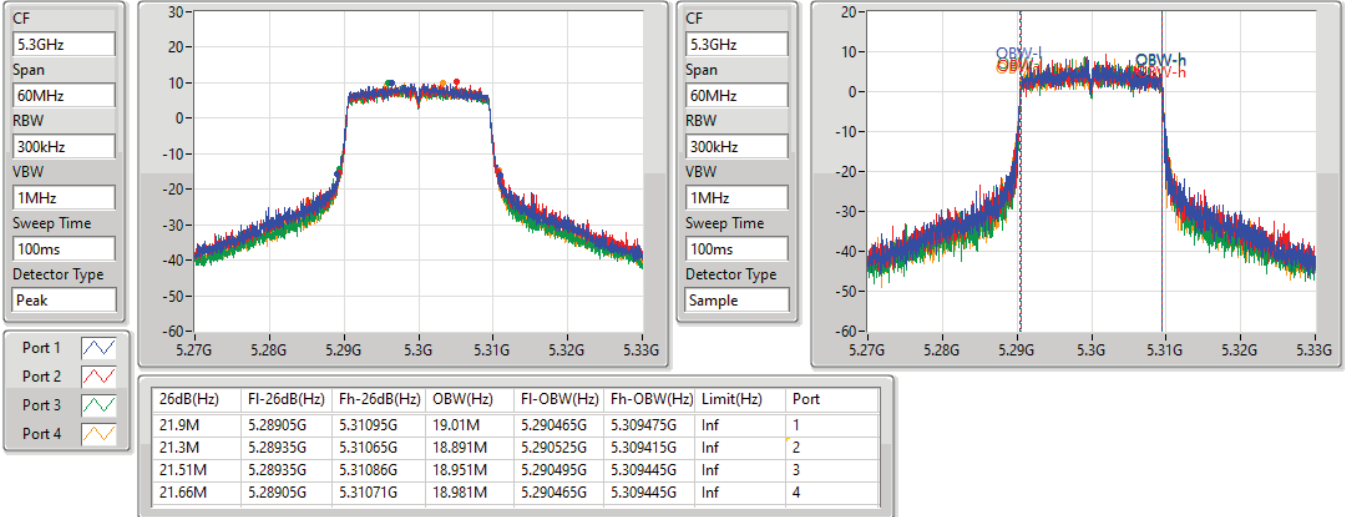

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5260MHz

04/06/2021

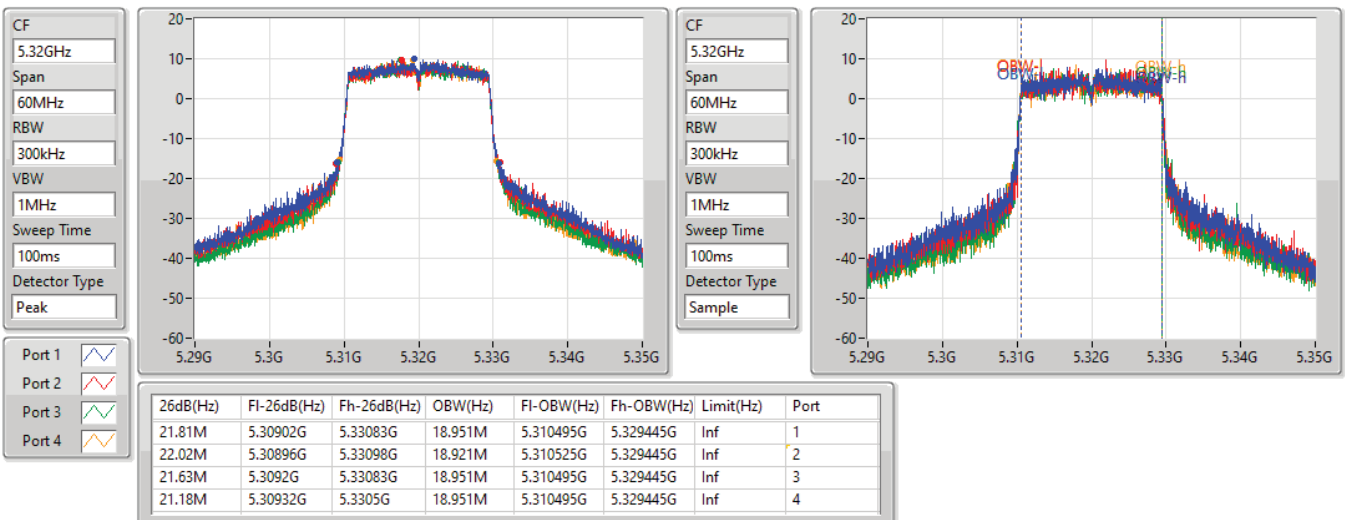


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5300MHz

04/06/2021

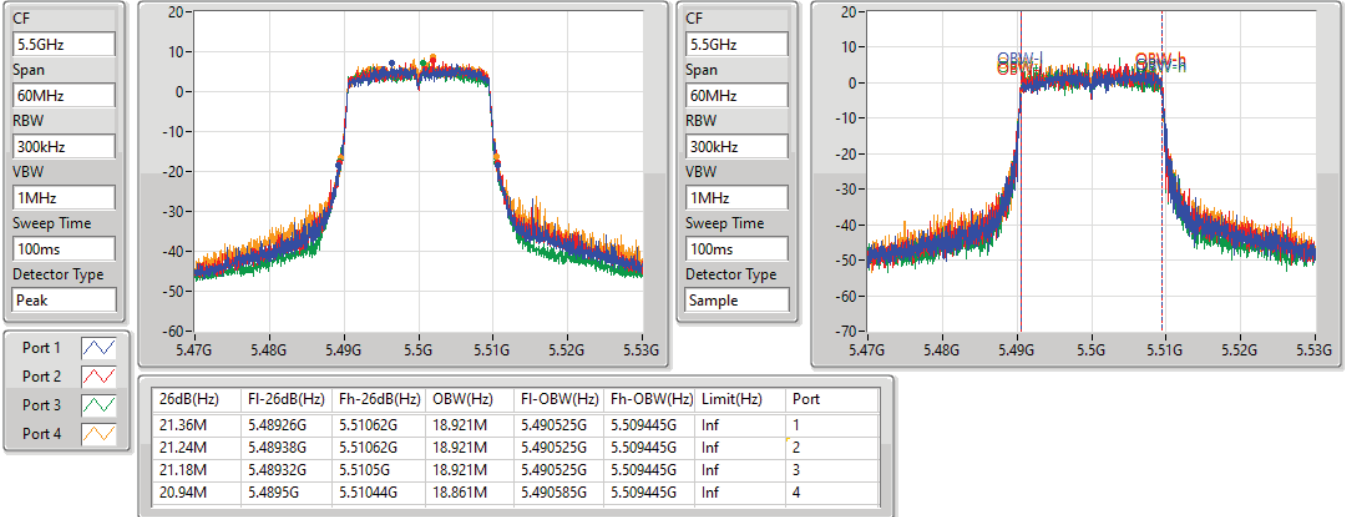

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5320MHz

04/06/2021

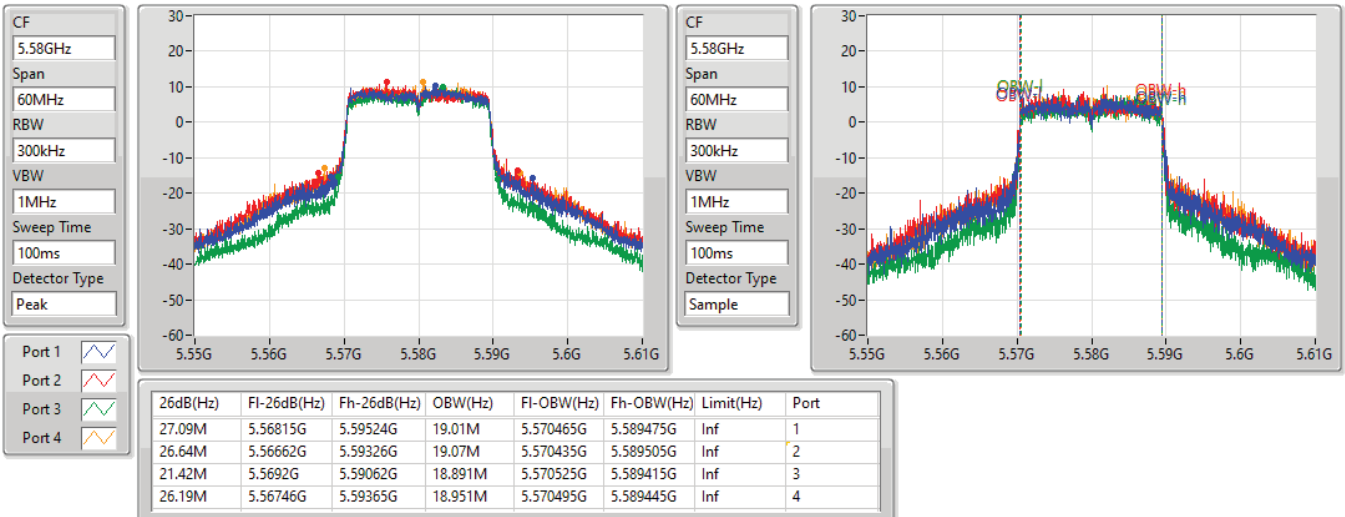


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5500MHz

04/06/2021

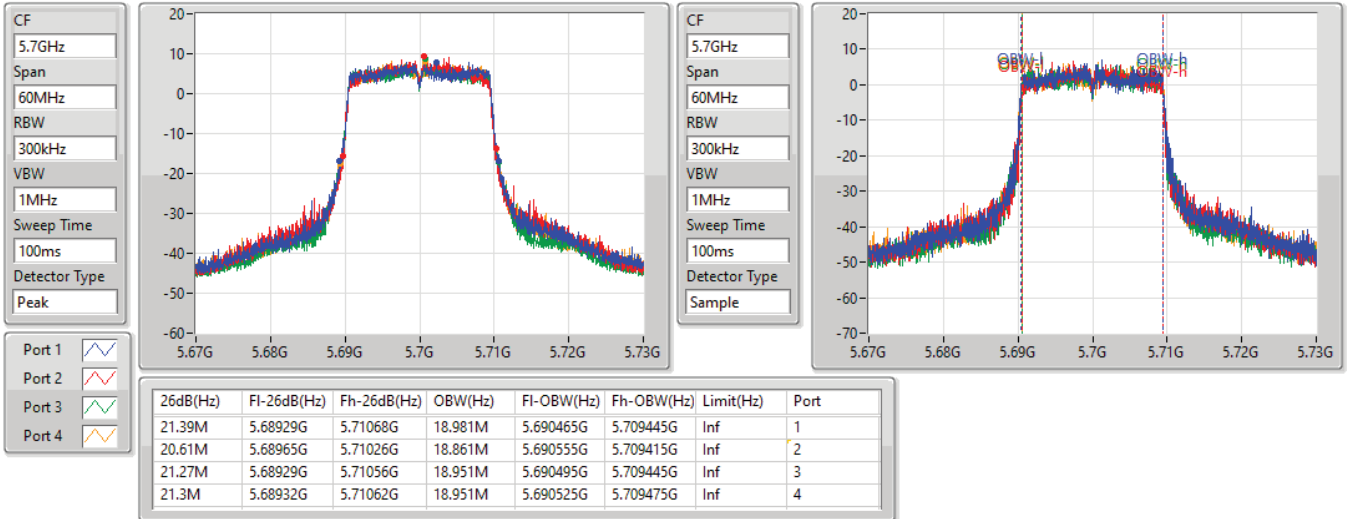

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5580MHz

04/06/2021

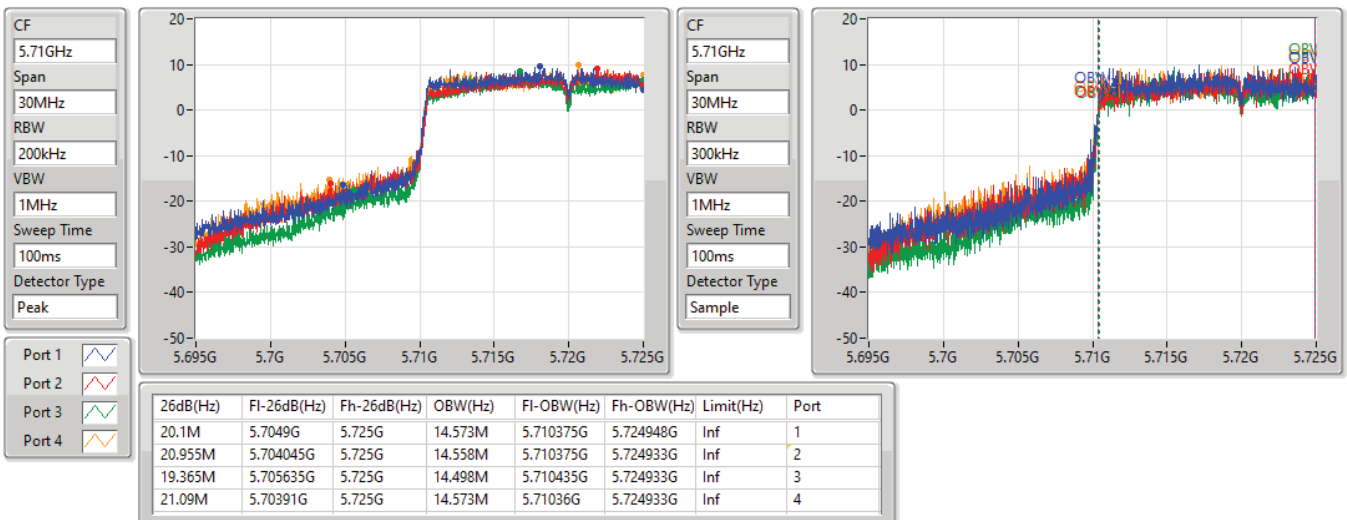


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

04/06/2021

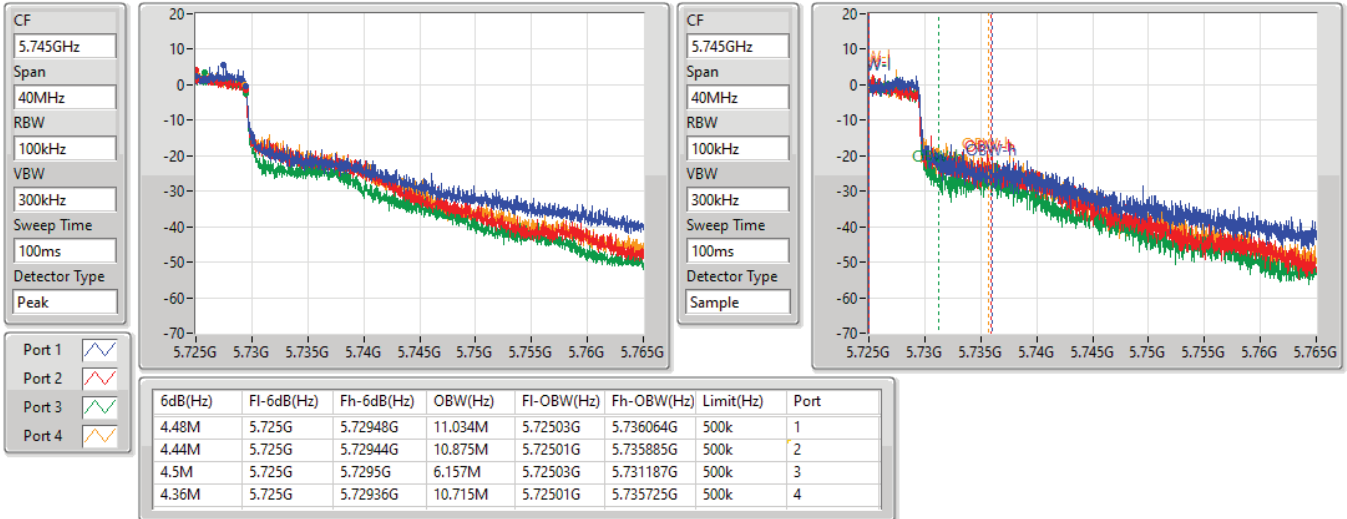

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

04/06/2021

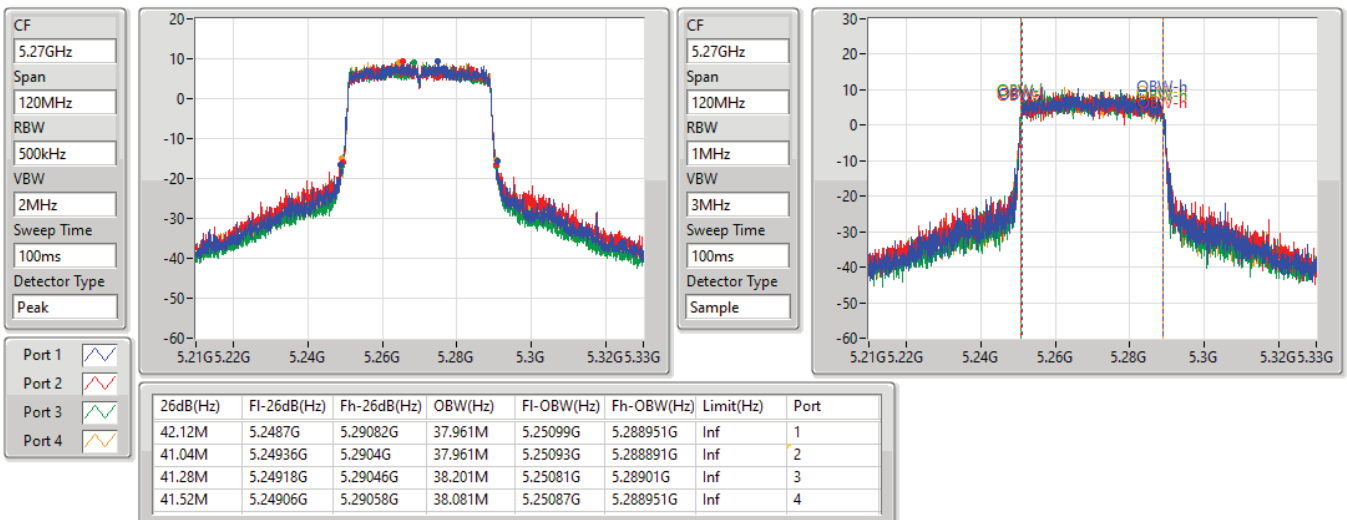


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

04/06/2021


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5270MHz

04/06/2021

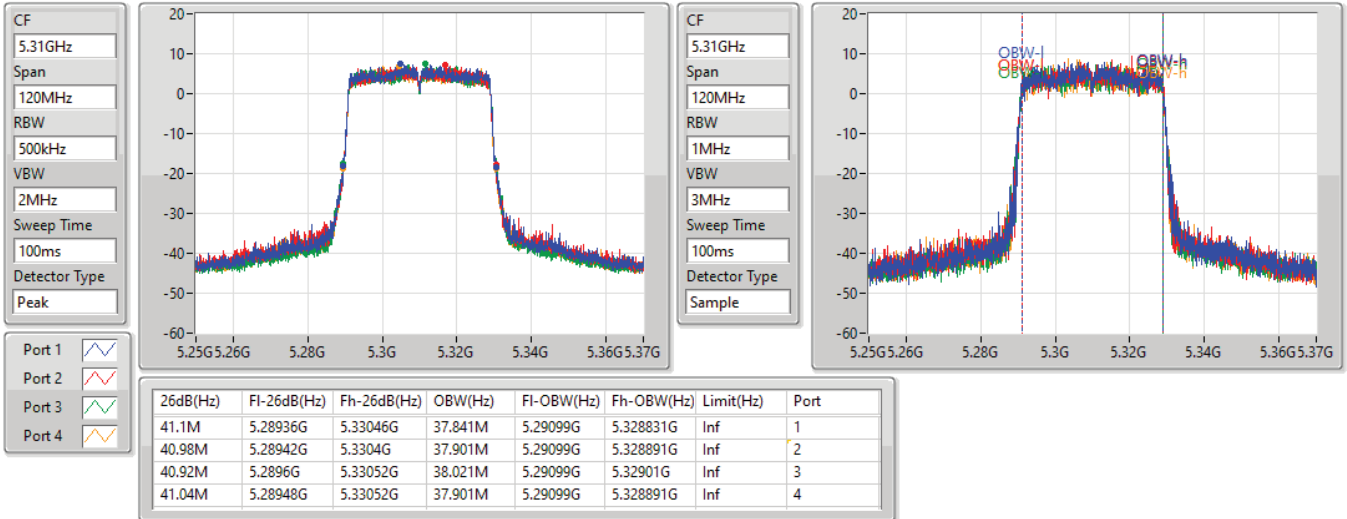


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5310MHz

04/06/2021

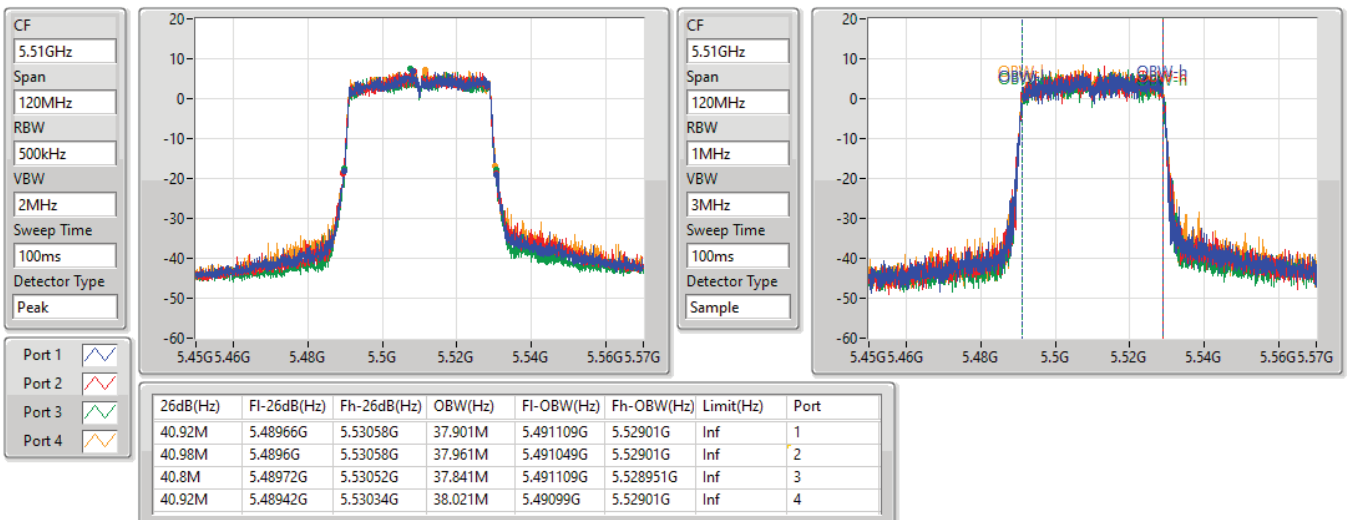


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5510MHz

04/06/2021

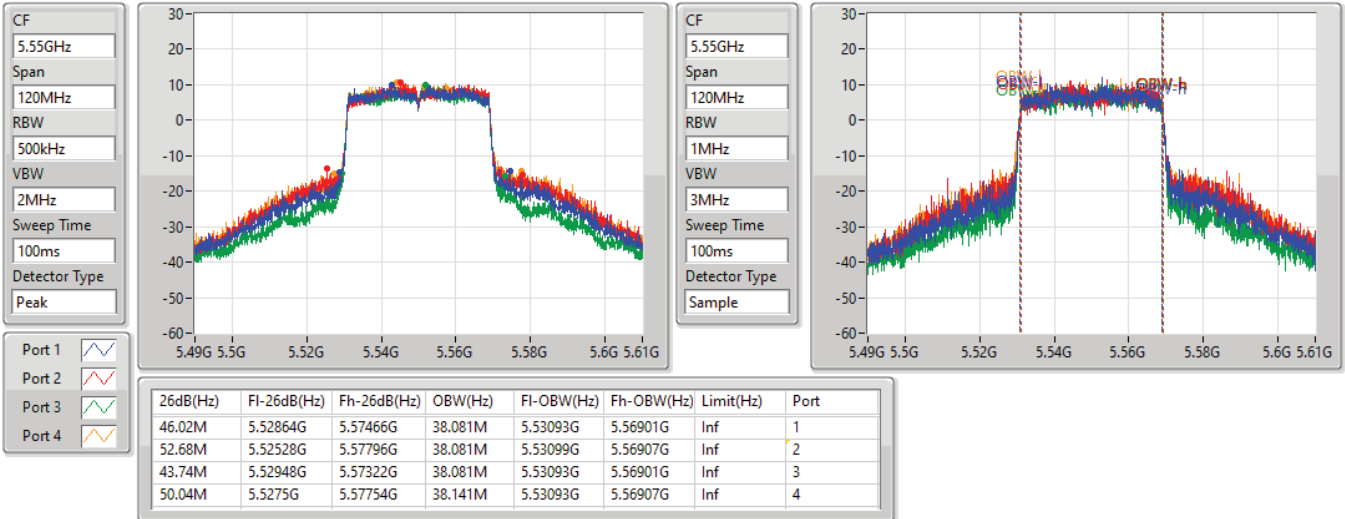


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5550MHz

04/06/2021

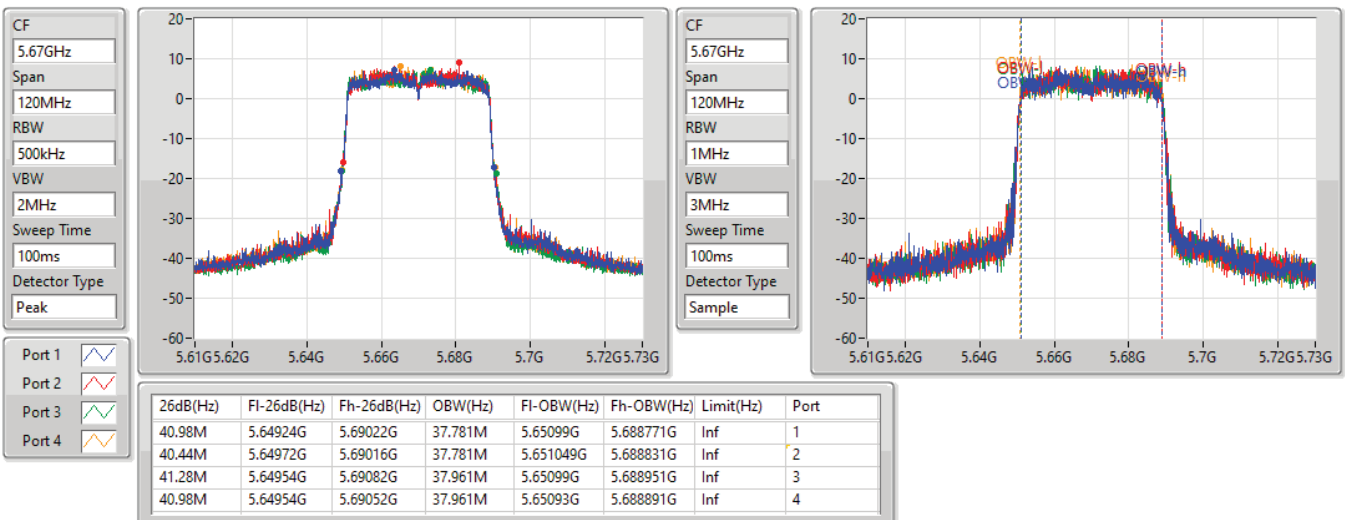


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

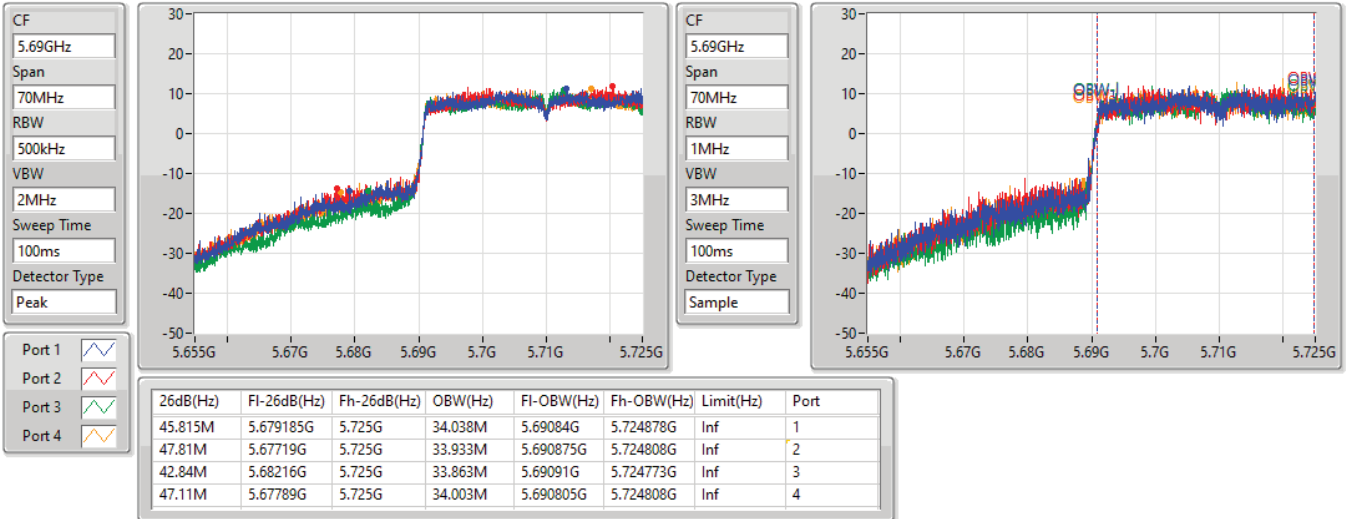
5670MHz

04/06/2021

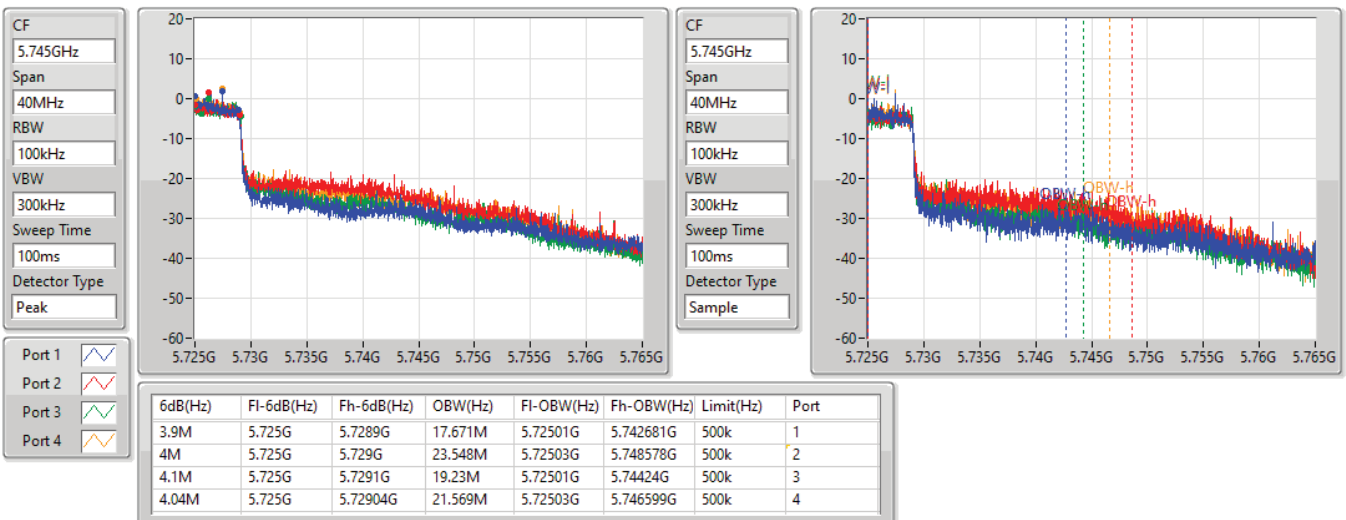


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

04/06/2021


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

04/06/2021

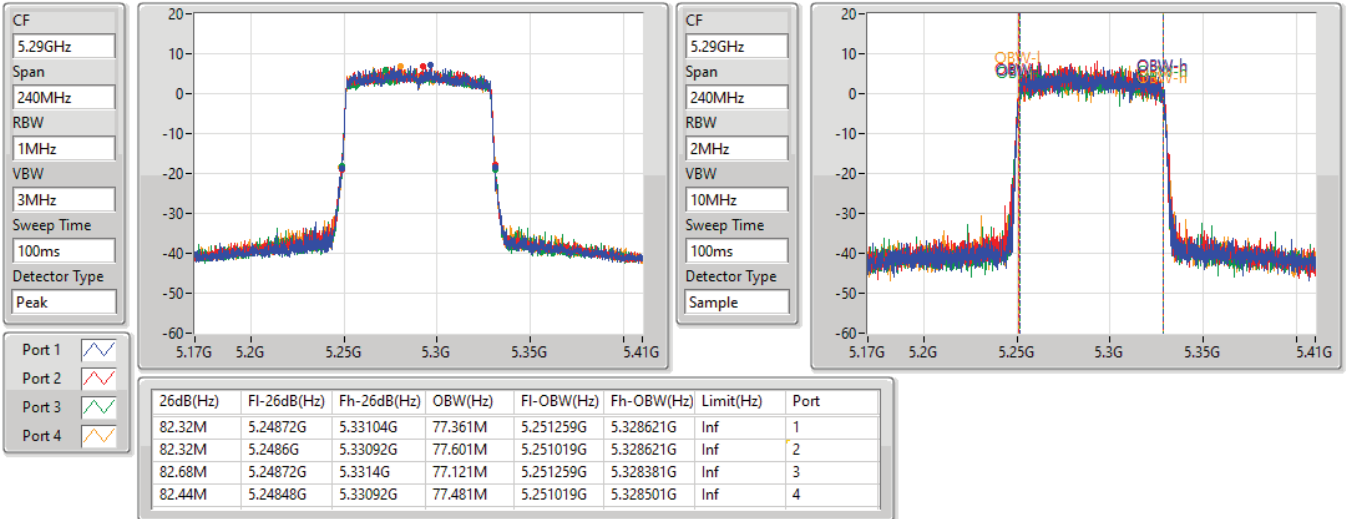


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5290MHz

04/06/2021

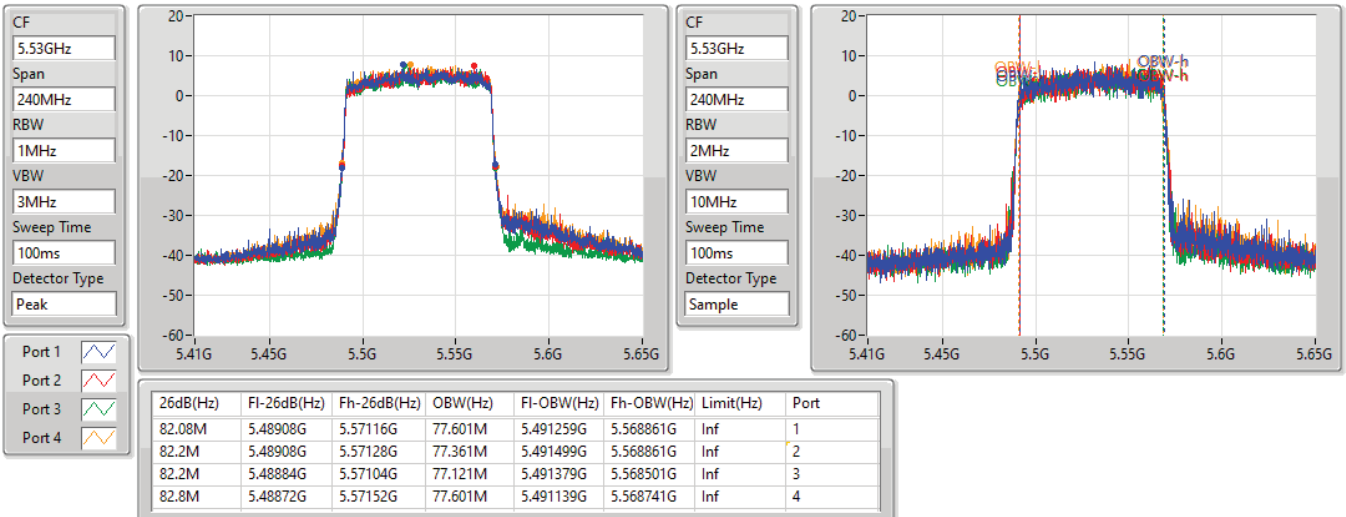


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

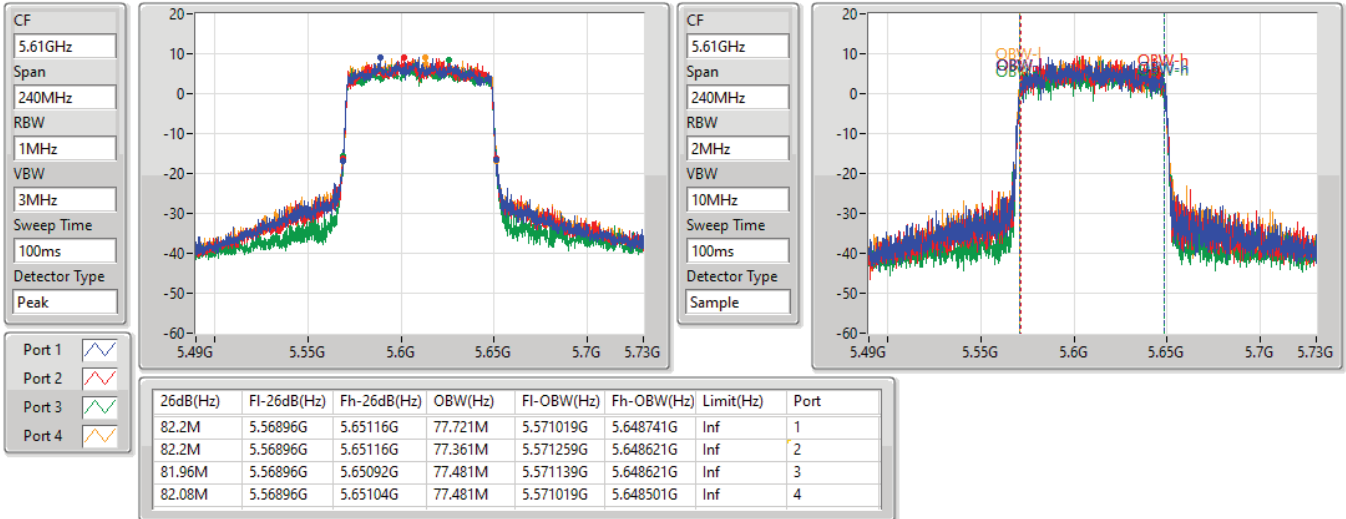
5530MHz

04/06/2021

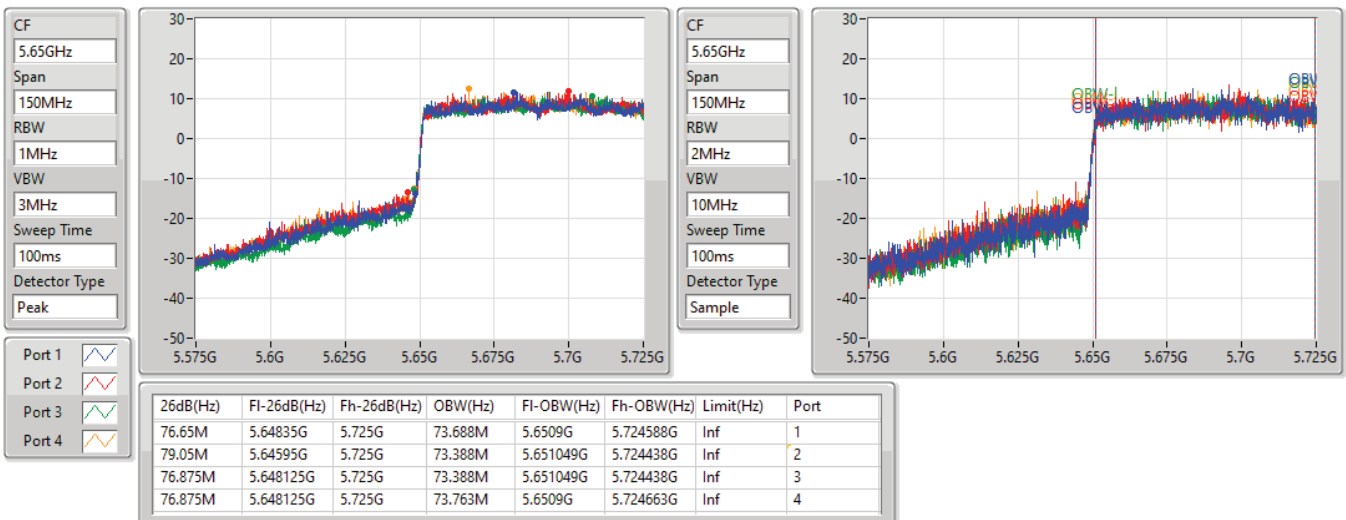


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

04/06/2021


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

04/06/2021

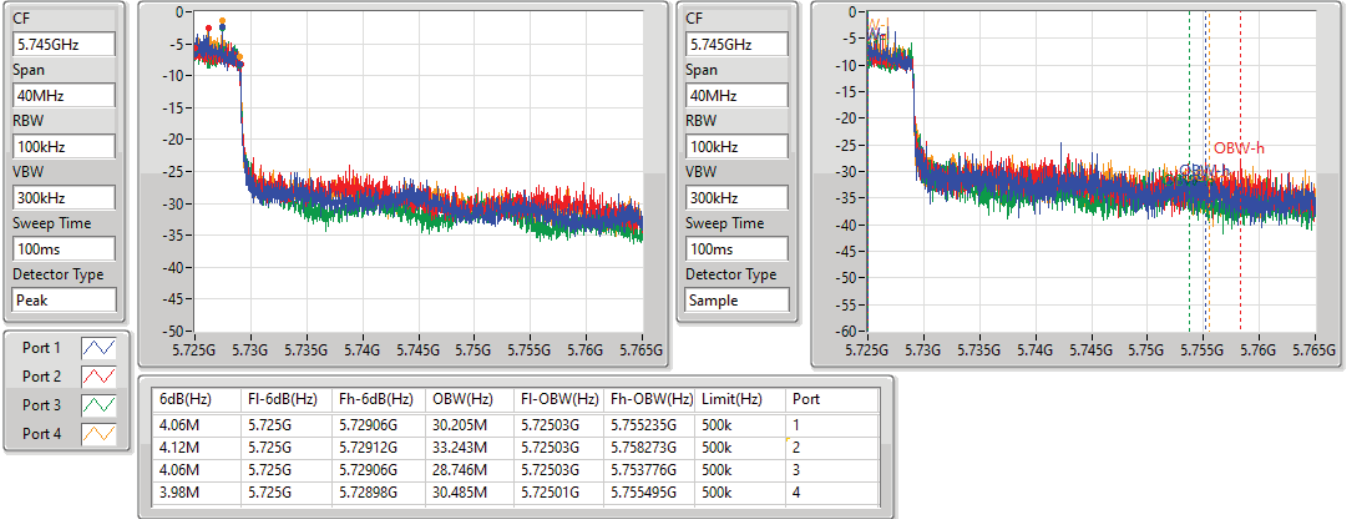


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

04/06/2021





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT80+80_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)	82.2M	76.042M	76M0D1D	81.24M	75.802M
802.11ax HEW80+80_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)	82.56M	77.601M	77M6D1D	82.2M	77.241M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	19.68M	16.492M	16M5D1D	18.99M	16.372M
802.11n HT20_Nss1,(MCS0)_8TX	20.85M	17.691M	17M7D1D	20.43M	17.571M
802.11n HT40_Nss1,(MCS0)_8TX	40.74M	36.402M	36M4D1D	39.84M	36.222M
802.11ac VHT20_Nss1,(MCS0)_8TX	20.97M	17.691M	17M7D1D	20.31M	17.571M
802.11ac VHT40_Nss1,(MCS0)_8TX	40.62M	36.402M	36M4D1D	39.66M	36.222M
802.11ac VHT80_Nss1,(MCS0)_8TX	82.56M	75.922M	75M9D1D	81.24M	75.562M
802.11ac VHT80+80_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)	81.96M	75.922M	75M9D1D	81.12M	75.562M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.81M	19.01M	19M0D1D	20.73M	18.891M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.22M	38.021M	38M0D1D	40.56M	37.841M
802.11ax HEW80_Nss1,(MCS0)_8TX	82.8M	77.481M	77M5D1D	81.84M	77.001M
802.11ax HEW80+80_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)	82.92M	77.601M	77M6D1D	81.72M	77.241M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	19.62M	16.492M	16M5D1D	14.355M	13.178M
802.11n HT20_Nss1,(MCS0)_8TX	21.12M	17.691M	17M7D1D	14.985M	13.778M
802.11n HT40_Nss1,(MCS0)_8TX	40.74M	36.402M	36M4D1D	34.93M	32.849M
802.11ac VHT20_Nss1,(MCS0)_8TX	20.97M	17.691M	17M7D1D	14.94M	13.808M
802.11ac VHT40_Nss1,(MCS0)_8TX	40.74M	36.462M	36M5D1D	34.895M	32.849M
802.11ac VHT80_Nss1,(MCS0)_8TX	82.2M	75.922M	75M9D1D	75.6M	72.339M
802.11ac VHT80+80_Nss1,(MCS0)_8TX	83.52M	76.522M	76M5D1D	82.8M	76.042M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.75M	19.01M	19M0D1D	15.375M	14.453M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.22M	38.081M	38M1D1D	35.175M	33.618M
802.11ax HEW80_Nss1,(MCS0)_8TX	83.16M	77.721M	77M7D1D	75.975M	73.088M
802.11ax HEW80+80_Nss1,(MCS0)_8TX	84.48M	78.201M	78M2D1D	83.28M	77.721M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	3.12M	3.418M	3M42D1D	3.1M	3.338M
802.11n HT20_Nss1,(MCS0)_8TX	3.76M	4.018M	4M02D1D	3.34M	3.898M
802.11n HT40_Nss1,(MCS0)_8TX	3.26M	3.538M	3M54D1D	2.48M	3.438M
802.11ac VHT20_Nss1,(MCS0)_8TX	3.84M	3.978M	3M98D1D	3.72M	3.898M
802.11ac VHT40_Nss1,(MCS0)_8TX	3.16M	3.538M	3M54D1D	2.5M	3.438M
802.11ac VHT80_Nss1,(MCS0)_8TX	3.2M	3.838M	3M84D1D	2.88M	3.578M
802.11ax HEW20_Nss1,(MCS0)_8TX	4.48M	4.558M	4M56D1D	4.28M	4.498M
802.11ax HEW40_Nss1,(MCS0)_8TX	4.16M	4.158M	4M16D1D	3.86M	4.098M
802.11ax HEW80_Nss1,(MCS0)_8TX	4.14M	4.238M	4M24D1D	3.9M	4.138M

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	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)	Port 5-N dB (Hz)	Port 5- OBW (Hz)	Port 6-N dB (Hz)	Port 6- OBW (Hz)	Port 7-N dB (Hz)	Port 7- OBW (Hz)	Port 8-N dB (Hz)	Port 8- OBW (Hz)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	19.5M	16.402M	19.17M	16.462M	19.35M	16.372M	19.2M	16.402M	19.23M	16.492M	19.53M	16.492M	19.68M	16.402M	19.32M	16.492M
5300MHz	Pass	Inf	19.5M	16.492M	19.38M	16.462M	19.29M	16.432M	19.26M	16.432M	18.99M	16.402M	19.41M	16.432M	19.59M	16.402M	19.38M	16.492M
5320MHz	Pass	Inf	19.47M	16.402M	19.62M	16.462M	19.44M	16.432M	19.29M	16.462M	19.44M	16.432M	19.44M	16.462M	19.5M	16.402M	19.41M	16.432M
5500MHz	Pass	Inf	19.5M	16.462M	19.26M	16.432M	19.62M	16.432M	19.44M	16.462M	19.32M	16.372M	19.53M	16.462M	19.26M	16.432M	19.29M	16.492M
5580MHz	Pass	Inf	19.59M	16.432M	19.47M	16.462M	19.44M	16.402M	19.47M	16.462M	19.23M	16.462M	19.59M	16.462M	19.5M	16.462M	19.44M	16.462M
5700MHz	Pass	Inf	19.29M	16.402M	19.41M	16.402M	19.32M	16.432M	19.17M	16.402M	18.96M	16.432M	19.11M	16.432M	18.99M	16.402M	19.38M	16.492M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.7M	13.253M	14.355M	13.178M	14.775M	13.238M	14.67M	13.223M	14.505M	13.208M	14.715M	13.208M	14.49M	13.193M	14.7M	13.253M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.378M	3.12M	3.398M	3.1M	3.338M	3.12M	3.418M	3.12M	3.418M	3.1M	3.418M	3.12M	3.418M	3.12M	3.398M
802.11n HT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.67M	17.571M	20.52M	17.631M	20.52M	17.571M	20.67M	17.601M	20.55M	17.571M	20.7M	17.661M	20.52M	17.661M	20.64M	17.601M
5300MHz	Pass	Inf	20.73M	17.631M	20.76M	17.631M	20.43M	17.691M	20.46M	17.631M	20.64M	17.631M	20.55M	17.631M	20.43M	17.631M	20.58M	17.571M
5320MHz	Pass	Inf	20.58M	17.661M	20.46M	17.571M	20.7M	17.661M	20.58M	17.601M	20.85M	17.631M	20.79M	17.631M	20.55M	17.631M	20.67M	17.661M
5500MHz	Pass	Inf	20.52M	17.661M	20.61M	17.631M	20.46M	17.631M	20.7M	17.631M	20.34M	17.571M	20.7M	17.631M	20.55M	17.601M	20.88M	17.631M
5580MHz	Pass	Inf	20.76M	17.661M	21.12M	17.661M	20.58M	17.601M	20.73M	17.661M	20.76M	17.661M	20.7M	17.631M	20.52M	17.571M	20.76M	17.661M
5700MHz	Pass	Inf	20.49M	17.571M	20.22M	17.511M	20.88M	17.661M	20.64M	17.601M	20.7M	17.691M	20.58M	17.601M	20.52M	17.541M	20.67M	17.691M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.06M	13.823M	14.985M	13.778M	15.09M	13.823M	15.12M	13.823M	15.075M	13.868M	14.985M	13.808M	15.12M	13.838M	15.405M	13.853M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	3.898M	3.72M	3.938M	3.74M	3.918M	3.74M	4.018M	3.34M	3.918M	3.76M	3.918M	3.74M	3.958M	3.72M	3.938M
802.11n HT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.56M	36.282M	40.56M	36.282M	40.26M	36.282M	39.96M	36.342M	40.38M	36.282M	40.14M	36.282M	40.56M	36.342M	40.74M	36.342M
5310MHz	Pass	Inf	40.26M	36.402M	40.14M	36.402M	40.38M	36.282M	40.38M	36.282M	40.2M	36.282M	39.84M	36.282M	39.9M	36.342M	40.38M	36.222M
5510MHz	Pass	Inf	40.56M	36.282M	39.84M	36.162M	40.32M	36.282M	40.02M	36.342M	40.74M	36.342M	40.02M	36.342M	40.44M	36.342M	40.38M	36.222M
5550MHz	Pass	Inf	40.38M	36.222M	40.44M	36.222M	40.2M	36.342M	40.32M	36.402M	39.9M	36.222M	39.9M	36.402M	40.44M	36.222M	40.38M	36.222M
5670MHz	Pass	Inf	40.44M	36.342M	39.96M	36.042M	40.62M	36.282M	40.2M	36.342M	40.26M	36.342M	40.32M	36.402M	40.2M	36.222M	40.38M	36.402M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.42M	33.058M	35.14M	32.849M	35.28M	33.093M	35.105M	33.058M	34.93M	32.919M	35.035M	32.989M	35M	33.093M	35.175M	32.954M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	3.438M	2.48M	3.478M	3.26M	3.538M	3.16M	3.478M	3.18M	3.518M	3.16M	3.498M	3.14M	3.458M	3.16M	3.478M
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.82M	17.631M	20.52M	17.601M	20.73M	17.691M	20.73M	17.631M	20.52M	17.571M	20.64M	17.631M	20.4M	17.661M	20.64M	17.601M
5300MHz	Pass	Inf	20.79M	17.631M	20.76M	17.631M	20.97M	17.661M	20.49M	17.631M	20.55M	17.601M	20.37M	17.631M	20.49M	17.631M	20.82M	17.661M
5320MHz	Pass	Inf	20.43M	17.661M	20.31M	17.601M	20.94M	17.631M	20.43M	17.631M	20.58M	17.601M	20.46M	17.661M	20.49M	17.601M	20.67M	17.631M
5500MHz	Pass	Inf	20.64M	17.661M	20.52M	17.661M	20.85M	17.601M	20.46M	17.631M	20.31M	17.601M	20.52M	17.631M	20.55M	17.631M	20.97M	17.661M
5580MHz	Pass	Inf	20.7M	17.661M	20.85M	17.661M	20.55M	17.601M	20.4M	17.601M	20.22M	17.541M	20.55M	17.631M	20.43M	17.571M	20.58M	17.601M
5700MHz	Pass	Inf	20.61M	17.601M	20.79M	17.691M	20.58M	17.571M	20.37M	17.601M	20.79M	17.631M	20.34M	17.571M	20.37M	17.601M	20.55M	17.541M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.27M	13.853M	15.27M	13.898M	15.09M	13.868M	15.165M	13.808M	14.94M	13.823M	15.3M	13.883M	15.165M	13.853M	15.3M	13.853M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	3.918M	3.84M	3.938M	3.72M	3.978M	3.76M	3.958M	3.74M	3.898M	3.74M	3.918M	3.84M	3.958M	3.72M	3.978M
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.38M	36.282M	40.62M	36.342M	40.2M	36.342M	40.08M	36.282M	40.2M	36.342M	39.78M	36.282M	40.26M	36.342M	40.56M	36.282M
5310MHz	Pass	Inf	40.5M	36.222M	40.02M	36.282M	40.38M	36.222M	40.26M	36.342M	40.5M	36.282M	39.66M	36.282M	40.08M	36.282M	40.5M	36.402M
5510MHz	Pass	Inf	39.96M	36.282M	40.68M	36.222M	40.2M	36.282M	40.08M	36.282M	40.5M	36.282M	40.08M	36.462M	40.08M	36.342M	40.26M	36.282M
5550MHz	Pass	Inf	40.74M	36.282M	40.02M	36.162M	40.26M	36.282M	40.08M	36.402M	40.26M	36.342M	39.84M	36.282M	40.32M	36.222M	40.62M	36.342M
5670MHz	Pass	Inf	40.56M	36.282M	39.54M	36.042M	40.5M	36.282M	40.08M	36.282M	40.14M	36.342M	40.14M	36.402M	40.56M	36.162M	40.74M	36.402M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.28M	33.023M	34.895M	32.849M	35.28M	33.058M	35.105M	33.058M	34.93M	32.884M	35.105M	33.058M	34.965M	33.058M	35.245M	32.954M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.478M	2.5M	3.498M	3.16M	3.538M	3.14M	3.478M	3.16M	3.518M	3.16M	3.518M	3.14M	3.438M	3.16M	3.498M
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.84M	75.922M	81.6M	75.802M	81.84M	75.682M	81.24M	75.802M	81.48M	75.802M	81.36M	75.562M	81.72M	75.802M	82.56M	75.922M
5530MHz	Pass	Inf	81.72M	75.682M	81.48M	75.442M	82.2M	75.802M	81.72M	75.922M	81.6M	75.802M	81.36M	75.802M	81.48M	75.442M	81.72M	75.682M
5610MHz	Pass	Inf	81.96M	75.562M	81.48M	75.562M	82.2M	75.682M	81.72M	75.922M	81.48M	75.682M	81.48M	75.922M	81.12M	75.802M	81.84M	75.562M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.975M	72.714M	75.75M	72.339M	76.125M	72.414M	76.05M	72.714M	76.125M	72.564M	75.6M	72.339M	75.6M	72.414M	76.125M	72.489M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	2.88M	3.638M	3.14M	3.738M	3.14M	3.838M	3.16M	3.578M	3.16M	3.658M	3.2M	3.678M	3.14M	3.758M	3.12M	3.738M
802.11ac VHT80+80_Nss1,(MCS0)_4TX(Port1 &Port2&Port3&Port4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz	Pass	Inf	82.2M	75.802M	81.84M	75.802M	81.24M	75.922M	81.72M	76.042M								
802.11ac VHT80+80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



EBW_Non-Beamforming_Radio 1_8T1S

Appendix A.2

Mode	Result	Limit	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)	Port 5-N dB (Hz)	Port 5- OBW (Hz)	Port 6-N dB (Hz)	Port 6- OBW (Hz)	Port 7-N dB (Hz)	Port 7- OBW (Hz)	Port 8-N dB (Hz)	Port 8- OBW (Hz)
(Port5&Port6&Port7&Port8)																		
5210MHz,#5290MHz	Pass	Inf									81.96M	75.562M	81.84M	75.802M	81.84M	75.922M	81.12M	75.682M
802.11ac VHT80+80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz	Pass	Inf	83.52M	76.282M	83.04M	76.282M	82.8M	76.522M	82.8M	76.042M	83.04M	76.522M	83.04M	76.282M	83.04M	76.522M	83.28M	76.282M
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.72M	18.951M	21.3M	18.951M	21.15M	18.891M	20.97M	18.921M	21.09M	18.951M	21.03M	18.951M	21.48M	18.951M	21.33M	18.951M
5300MHz	Pass	Inf	21.39M	18.951M	21.24M	18.921M	21.81M	18.951M	21.03M	18.951M	21.12M	18.921M	20.73M	18.891M	21.36M	18.951M	21.3M	18.981M
5320MHz	Pass	Inf	21.24M	18.951M	20.94M	18.951M	21.36M	19.01M	21.15M	18.981M	21.15M	18.921M	21.03M	18.951M	21.12M	18.921M	21.66M	18.981M
5500MHz	Pass	Inf	21.15M	18.861M	21.06M	18.921M	21.18M	18.891M	20.94M	18.891M	21.15M	18.861M	20.94M	18.921M	21.21M	18.921M	21.75M	18.951M
5580MHz	Pass	Inf	21.42M	18.831M	21.33M	18.921M	20.97M	18.861M	21.06M	18.921M	21.12M	18.921M	21.24M	18.951M	21.09M	18.891M	21.48M	18.951M
5700MHz	Pass	Inf	21.12M	18.861M	20.82M	18.801M	21.33M	19.01M	21.03M	18.891M	20.79M	18.951M	20.94M	18.891M	21.21M	18.921M	21.12M	18.831M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.66M	14.483M	15.705M	14.498M	15.435M	14.468M	15.63M	14.483M	15.375M	14.483M	15.51M	14.468M	15.48M	14.468M	15.45M	14.453M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.42M	4.558M	4.48M	4.558M	4.28M	4.498M	4.38M	4.538M	4.42M	4.538M	4.42M	4.558M	4.4M	4.538M	4.44M	4.558M
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	41.1M	37.841M	41.16M	38.021M	41.1M	37.901M	41.22M	37.841M	41.04M	38.021M	40.86M	37.901M	40.74M	37.961M	40.86M	37.961M
5310MHz	Pass	Inf	40.8M	37.961M	41.16M	37.901M	40.86M	37.901M	40.56M	38.021M	40.92M	37.961M	41.22M	37.961M	41.04M	38.021M	40.92M	38.021M
5510MHz	Pass	Inf	41.16M	37.961M	41.1M	38.081M	40.86M	37.901M	40.86M	37.841M	40.98M	37.961M	41.1M	37.901M	41.04M	37.901M	40.74M	37.901M
5550MHz	Pass	Inf	40.98M	37.841M	40.8M	37.901M	40.8M	38.021M	41.1M	37.841M	40.98M	38.021M	40.74M	37.961M	41.22M	37.841M	41.04M	37.901M
5670MHz	Pass	Inf	40.74M	37.841M	40.62M	37.661M	40.74M	37.961M	40.74M	37.961M	40.92M	37.841M	41.04M	38.021M	40.56M	37.781M	40.98M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.7M	33.828M	35.175M	33.618M	35.525M	33.898M	35.315M	33.793M	35.385M	33.828M	35.63M	33.933M	35.315M	33.793M	35.315M	33.793M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4M	4.118M	4.16M	4.158M	4.1M	4.138M	3.94M	4.098M	4.06M	4.138M	4.16M	4.138M	3.86M	4.118M	4.04M	4.118M
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.8M	77.481M	81.96M	77.361M	82.08M	77.361M	81.84M	77.481M	81.96M	77.481M	81.96M	77.361M	82.68M	77.001M	81.96M	77.361M
5530MHz	Pass	Inf	83.16M	77.361M	81.84M	77.241M	82.56M	77.721M	82.08M	77.481M	81.84M	77.721M	82.2M	77.721M	82.56M	77.241M	82.08M	77.481M
5610MHz	Pass	Inf	82.32M	77.361M	82.32M	77.121M	81.84M	77.481M	81.84M	77.481M	82.08M	77.241M	82.68M	77.601M	81.6M	77.361M	82.08M	77.481M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.425M	73.463M	76.35M	73.238M	76.05M	73.388M	75.975M	73.463M	75.975M	73.088M	76.125M	73.238M	76.05M	73.313M	75.975M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	4.138M	4.14M	4.238M	4.08M	4.198M	4.08M	4.158M	4.12M	4.198M	4.1M	4.138M	3.96M	4.198M	3.98M	4.138M
802.11ax HEW80+80_Nss1,(MCS0)_4TX (Port1&Port2&Port3&Port4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz	Pass	Inf	82.56M	77.481M	82.32M	77.601M	82.44M	77.241M	82.2M	77.481M								
802.11ax HEW80+80_Nss1,(MCS0)_4TX (Port5&Port6&Port7&Port8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz,#5290MHz	Pass	Inf									82.92M	77.601M	81.72M	77.361M	82.56M	77.601M	81.96M	77.241M
802.11ax HEW80+80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz	Pass	Inf	84.24M	77.961M	84.48M	78.201M	84M	77.721M	83.76M	77.961M	83.28M	77.721M	84.24M	77.721M	84M	77.961M	84.24M	77.961M

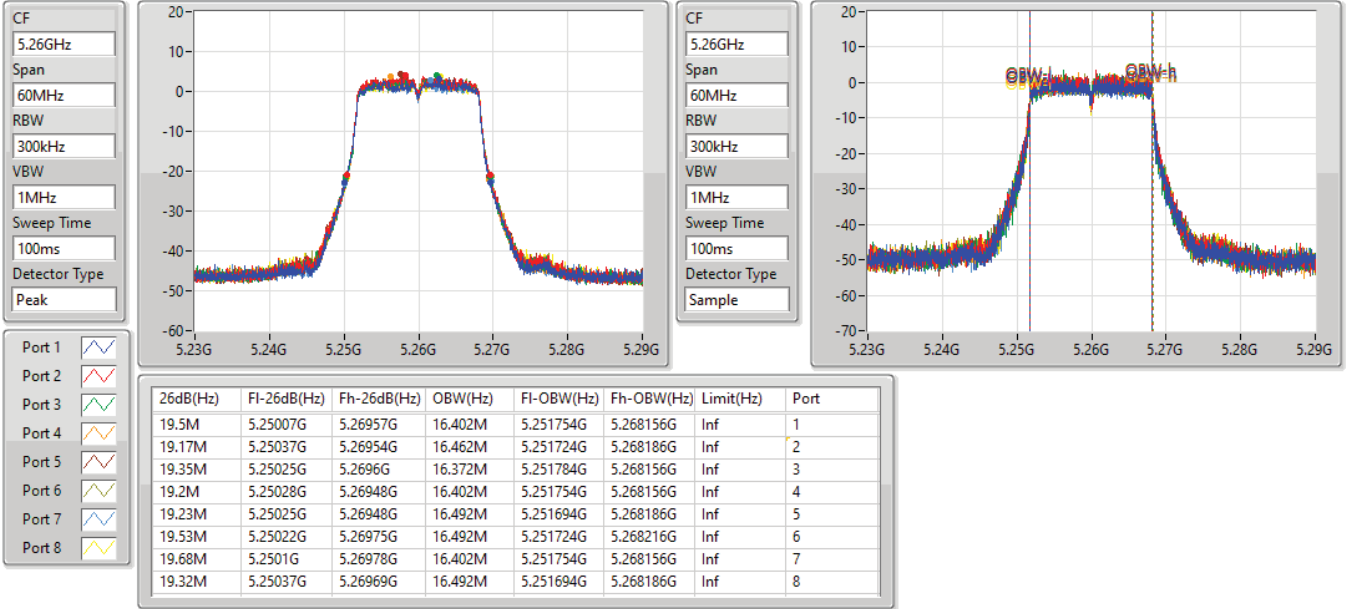
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_8TX

EBW

5260MHz

07/06/2021

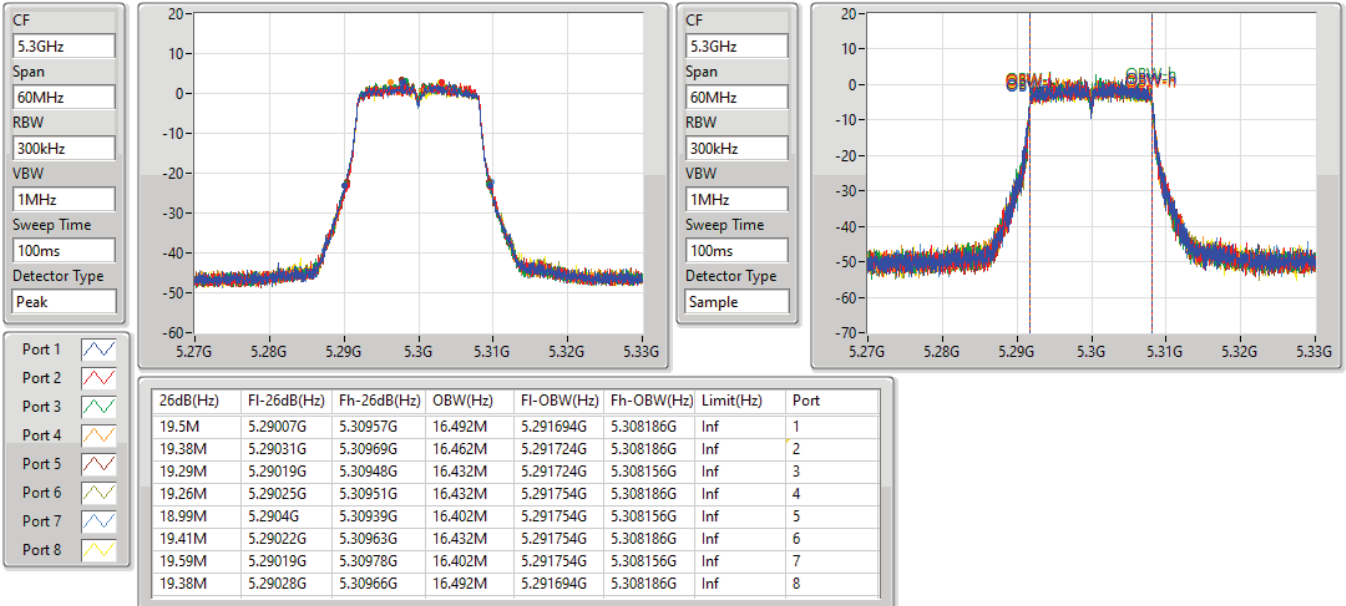


802.11a_Nss1,(6Mbps)_8TX

EBW

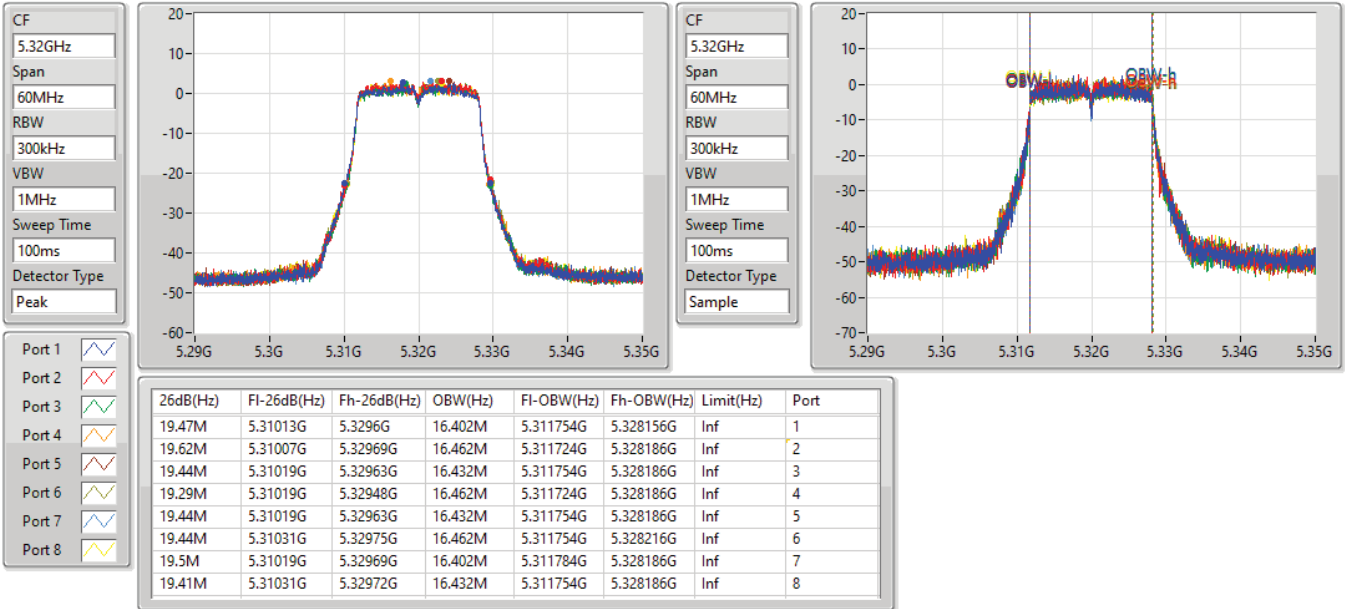
5300MHz

07/06/2021

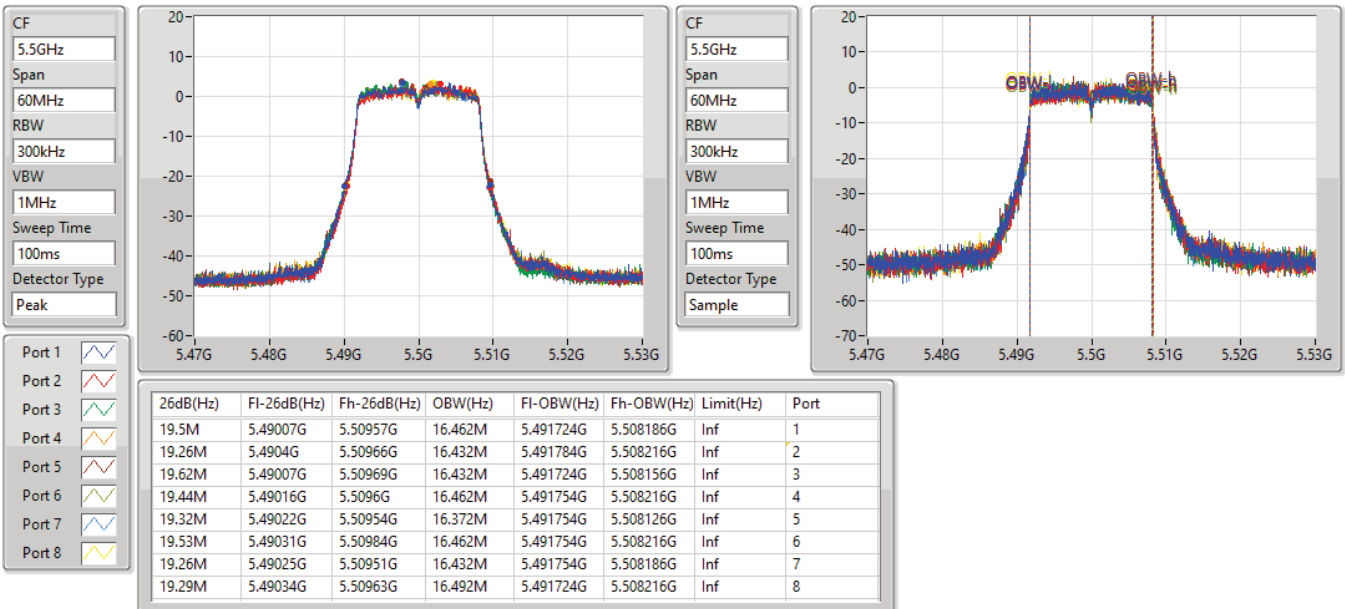


802.11a_Nss1,(6Mbps)_8TX
EBW
5320MHz

07/06/2021


802.11a_Nss1,(6Mbps)_8TX
EBW
5500MHz

07/06/2021

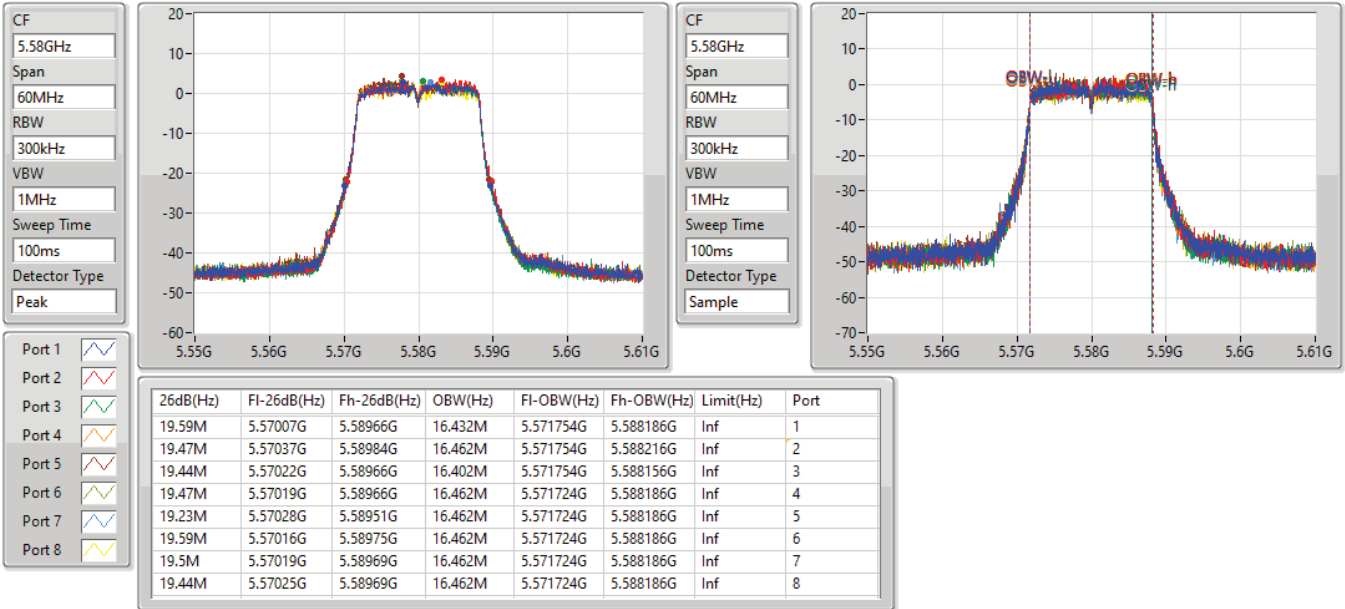


802.11a_Nss1,(6Mbps)_8TX

EBW

5580MHz

07/06/2021

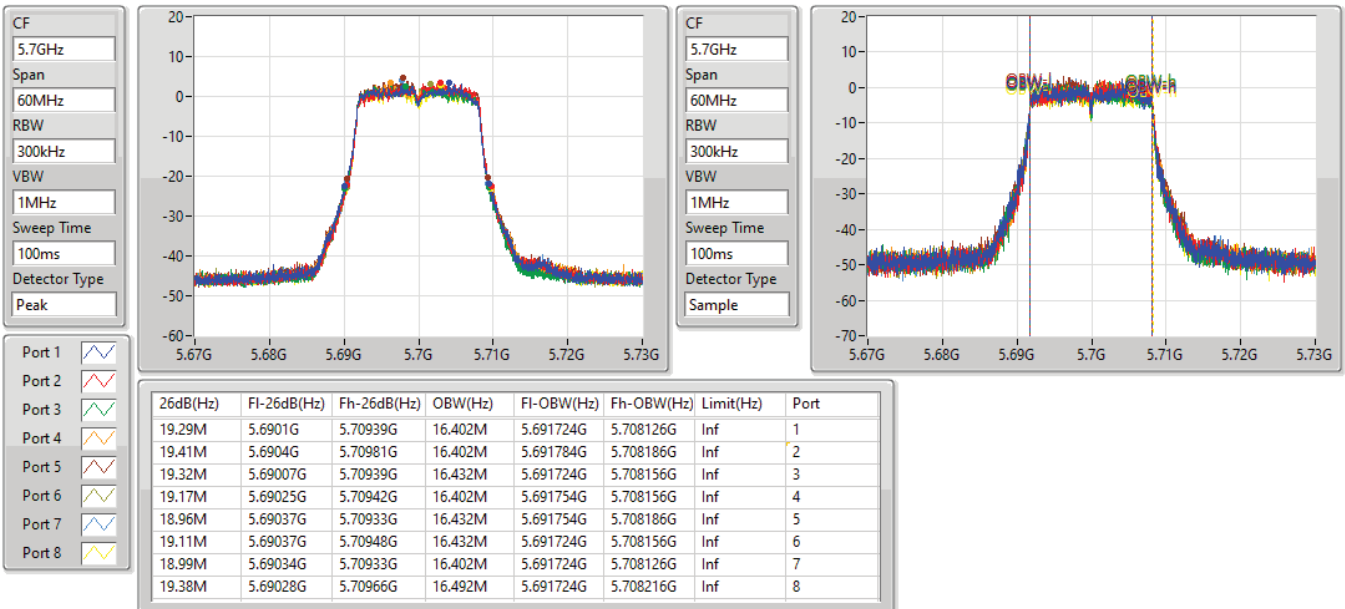


802.11a_Nss1,(6Mbps)_8TX

EBW

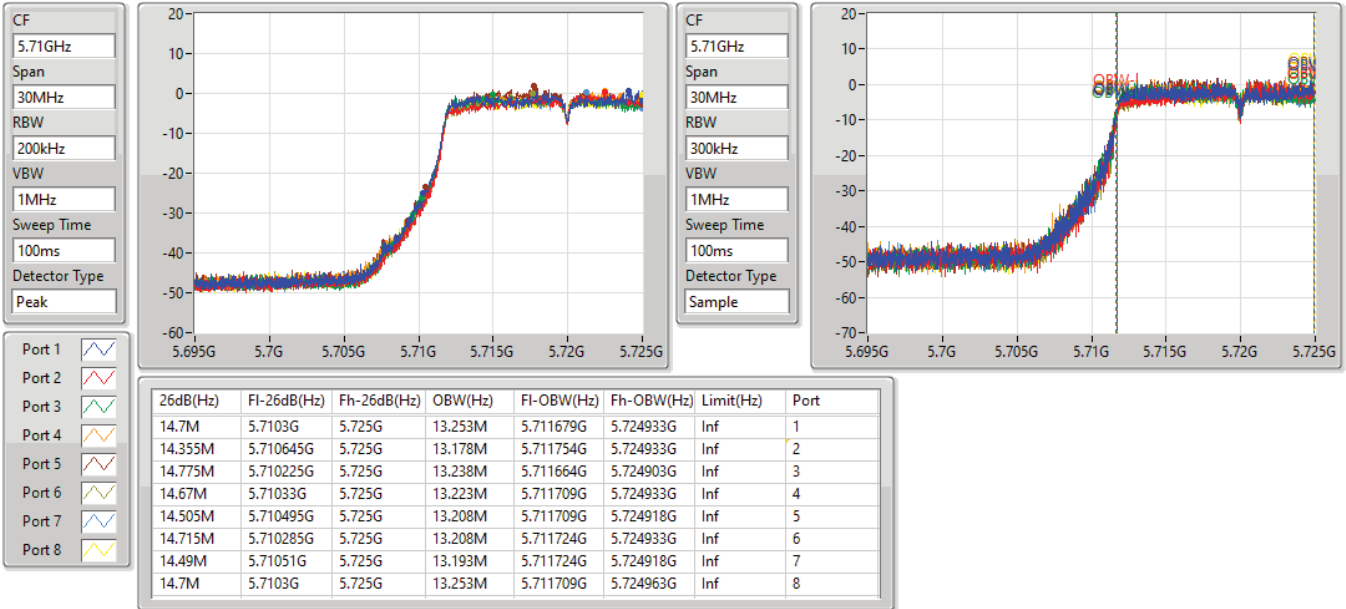
5700MHz

07/06/2021

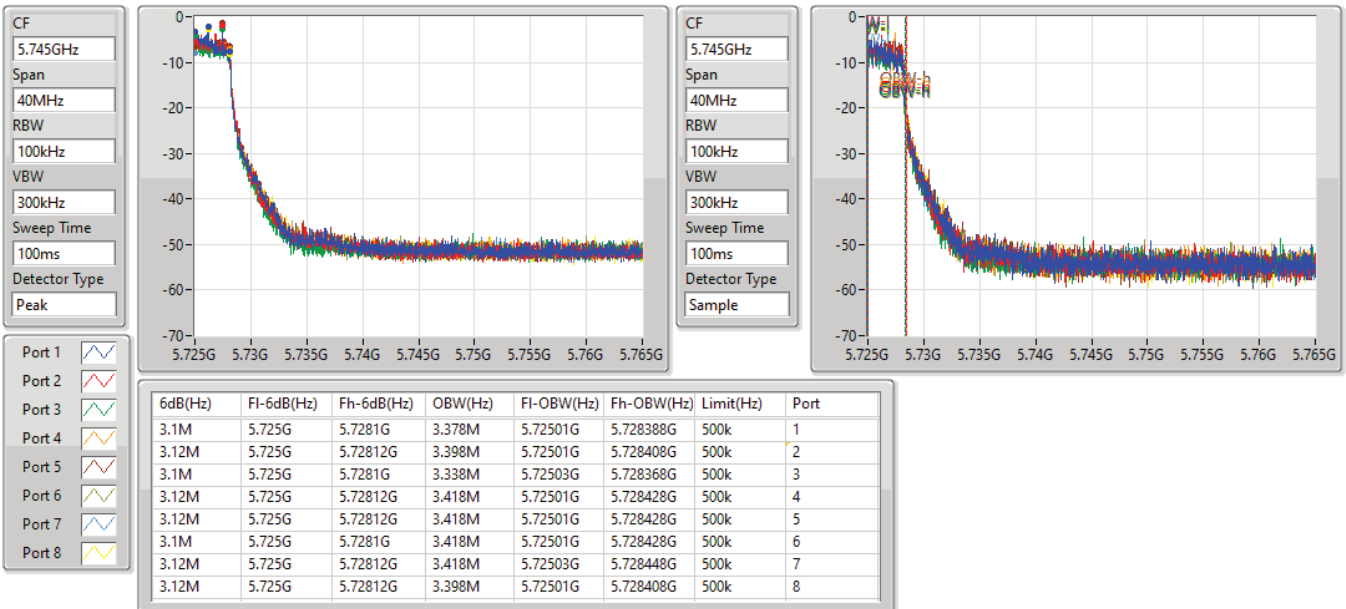


802.11a_Nss1,(6Mbps)_8TX
EBW
5720MHz Straddle 5.47-5.725GHz

07/06/2021

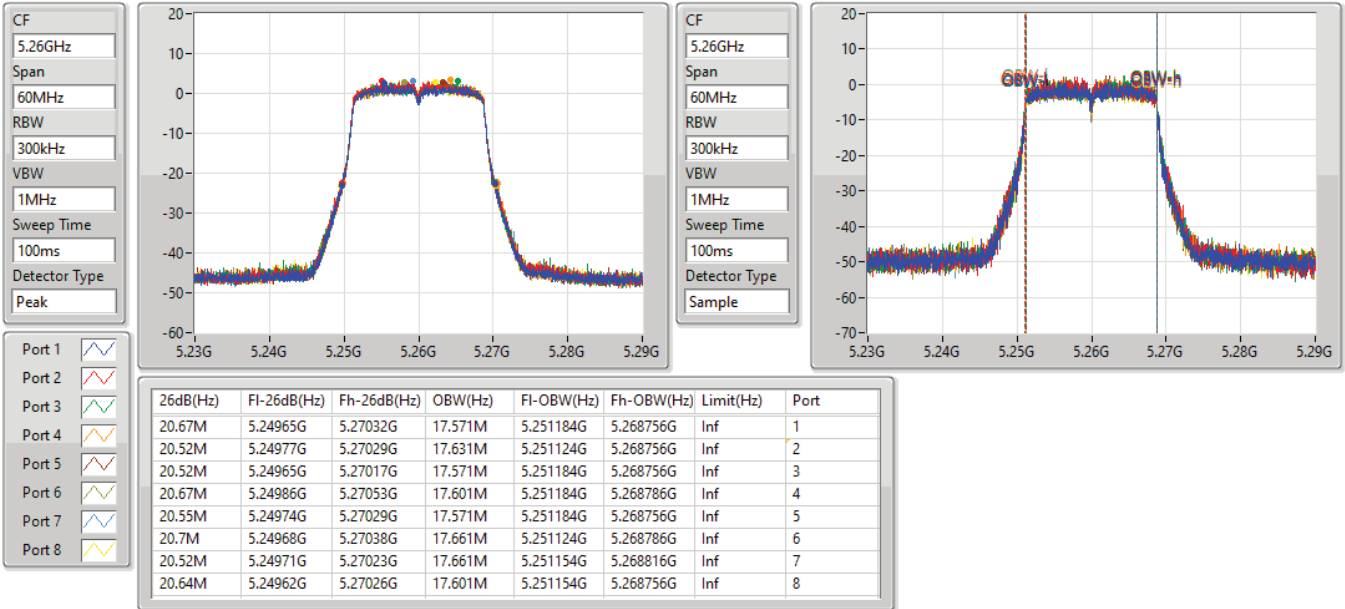

802.11a_Nss1,(6Mbps)_8TX
EBW
5720MHz Straddle 5.725-5.85GHz

07/06/2021

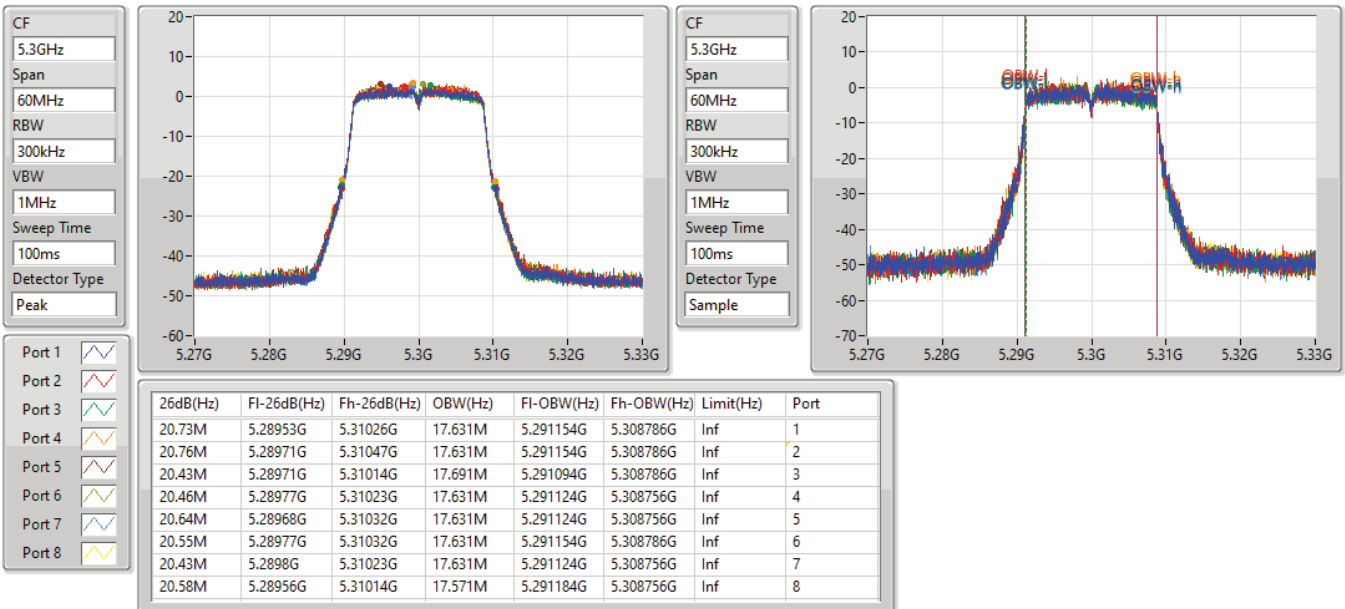


802.11n HT20_Nss1,(MCS0)_8TX
EBW
5260MHz

07/06/2021

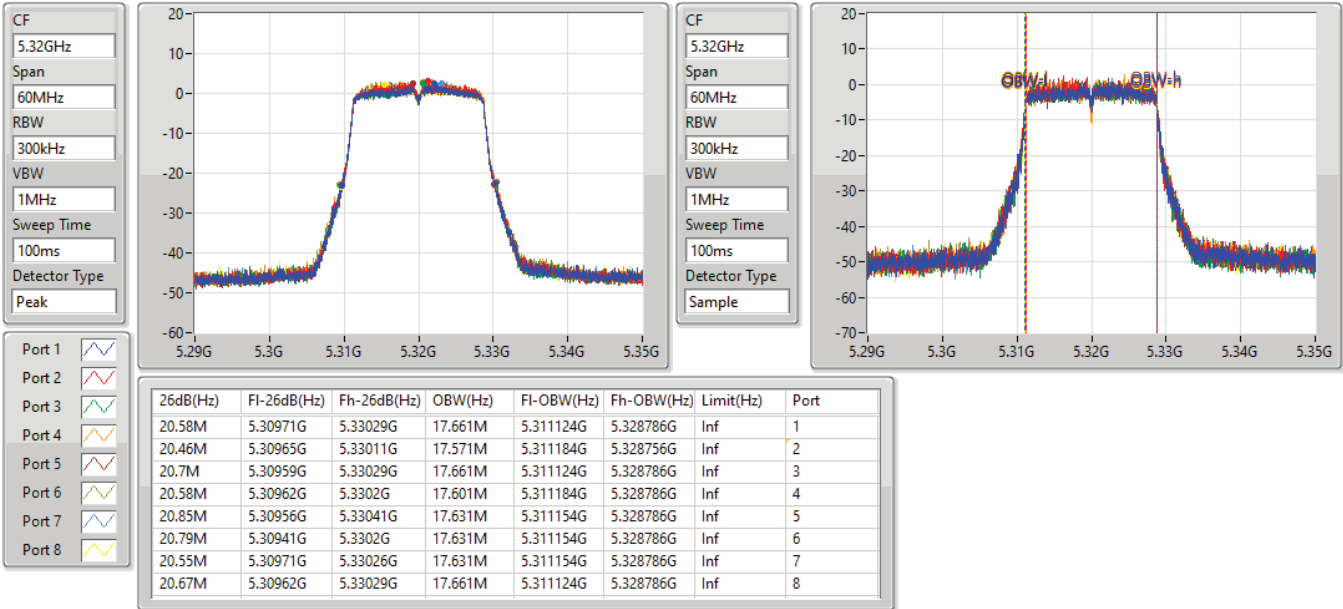

802.11n HT20_Nss1,(MCS0)_8TX
EBW
5300MHz

07/06/2021

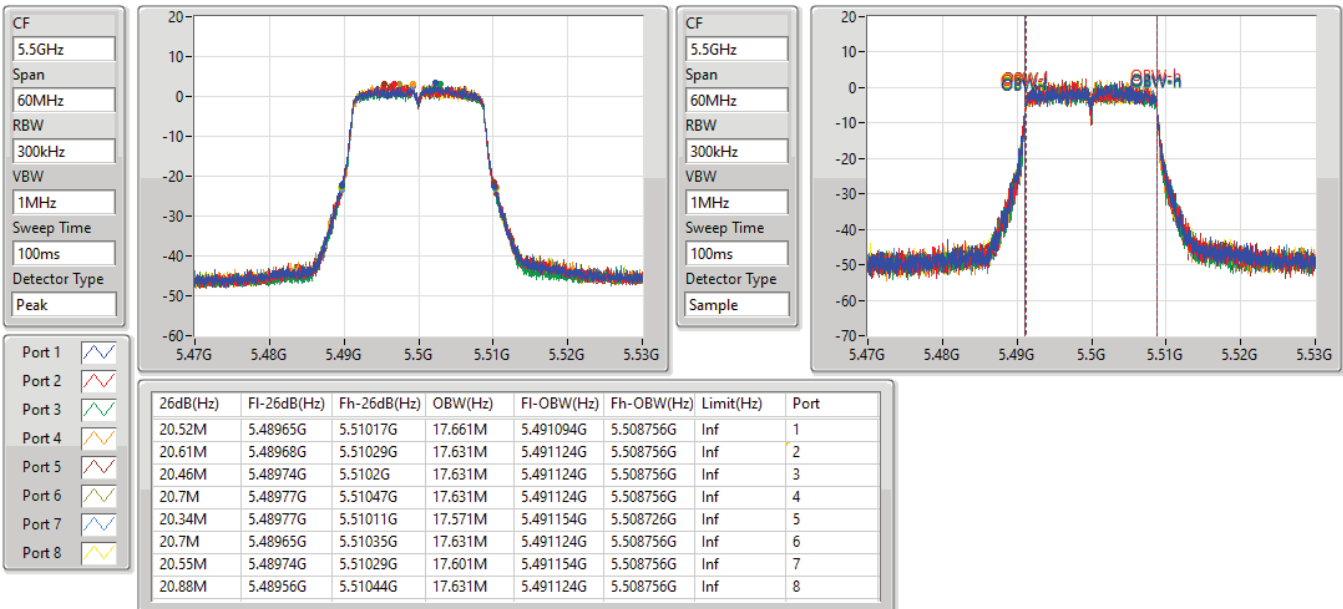


802.11n HT20_Nss1,(MCS0)_8TX
EBW
5320MHz

07/06/2021


802.11n HT20_Nss1,(MCS0)_8TX
EBW
5500MHz

07/06/2021

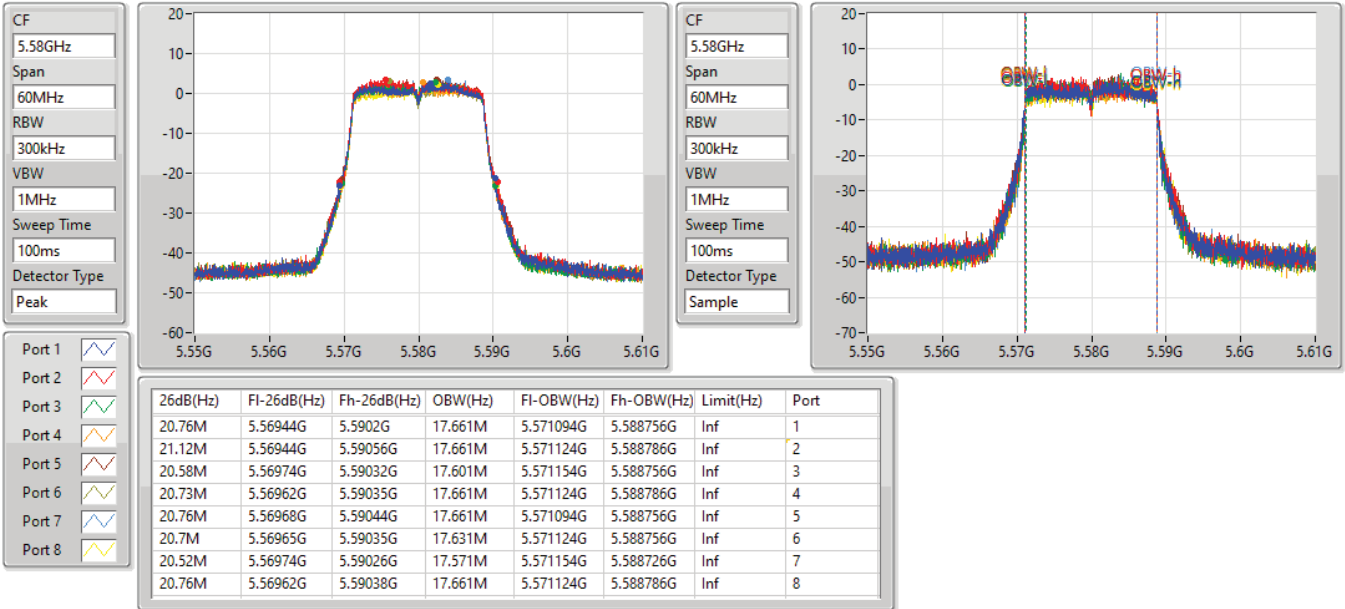


802.11n HT20_Nss1,(MCS0)_8TX

EBW

5580MHz

07/06/2021

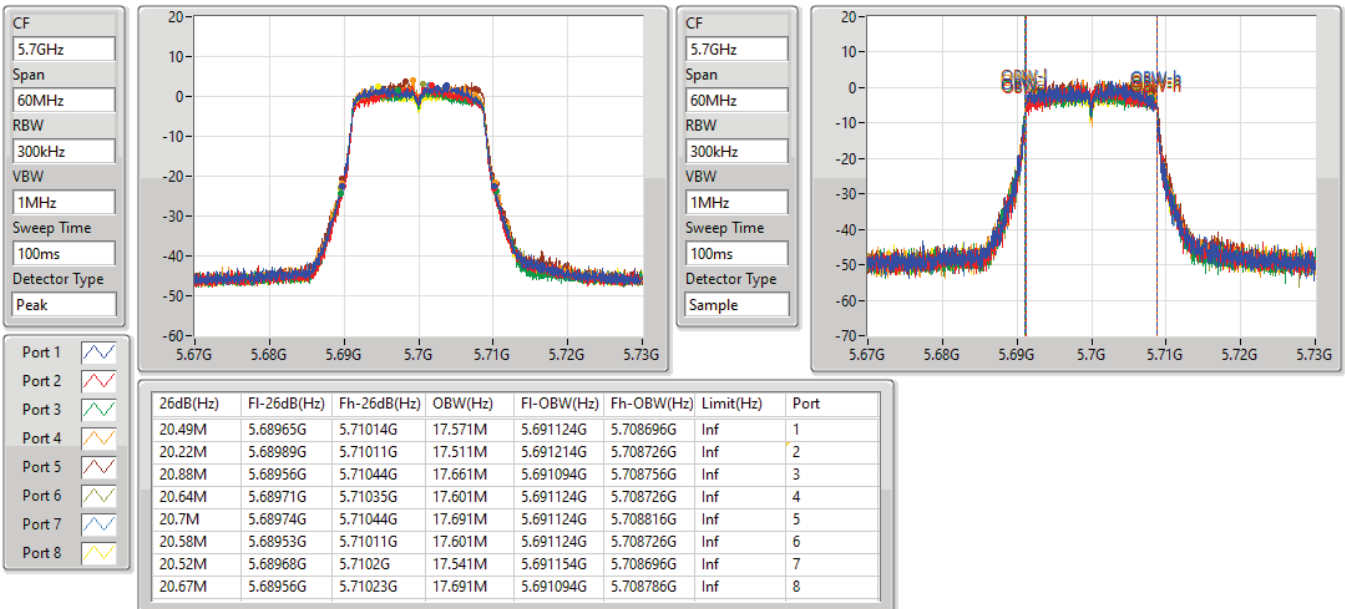


802.11n HT20_Nss1,(MCS0)_8TX

EBW

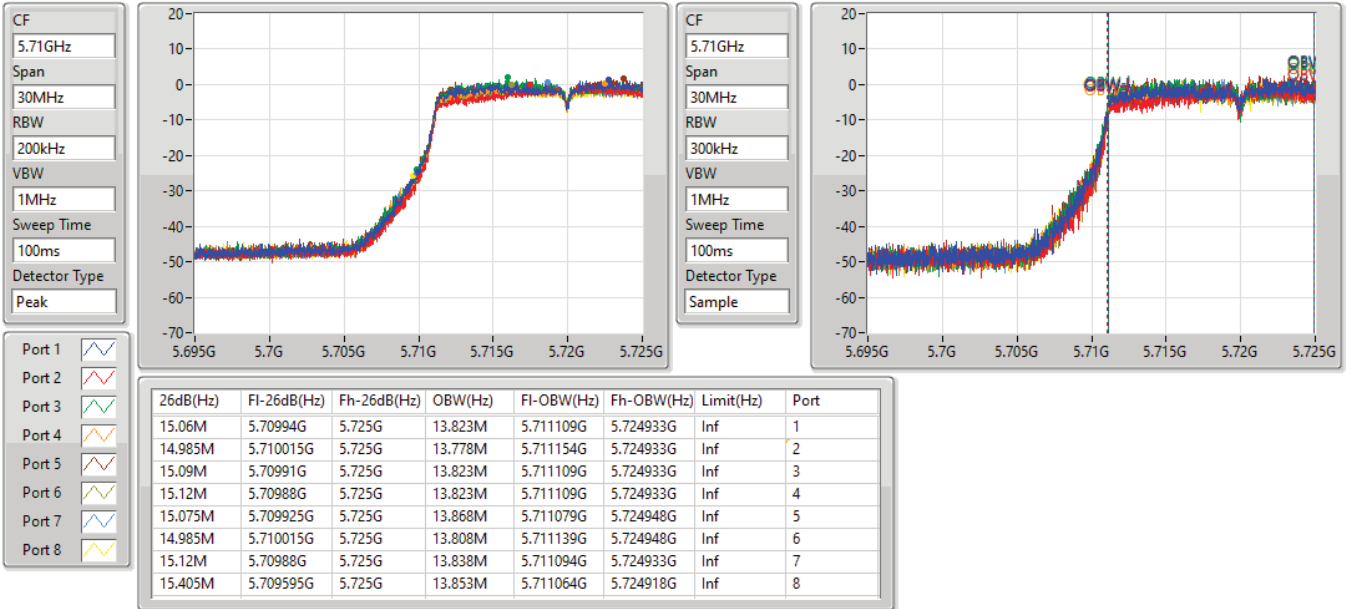
5700MHz

07/06/2021

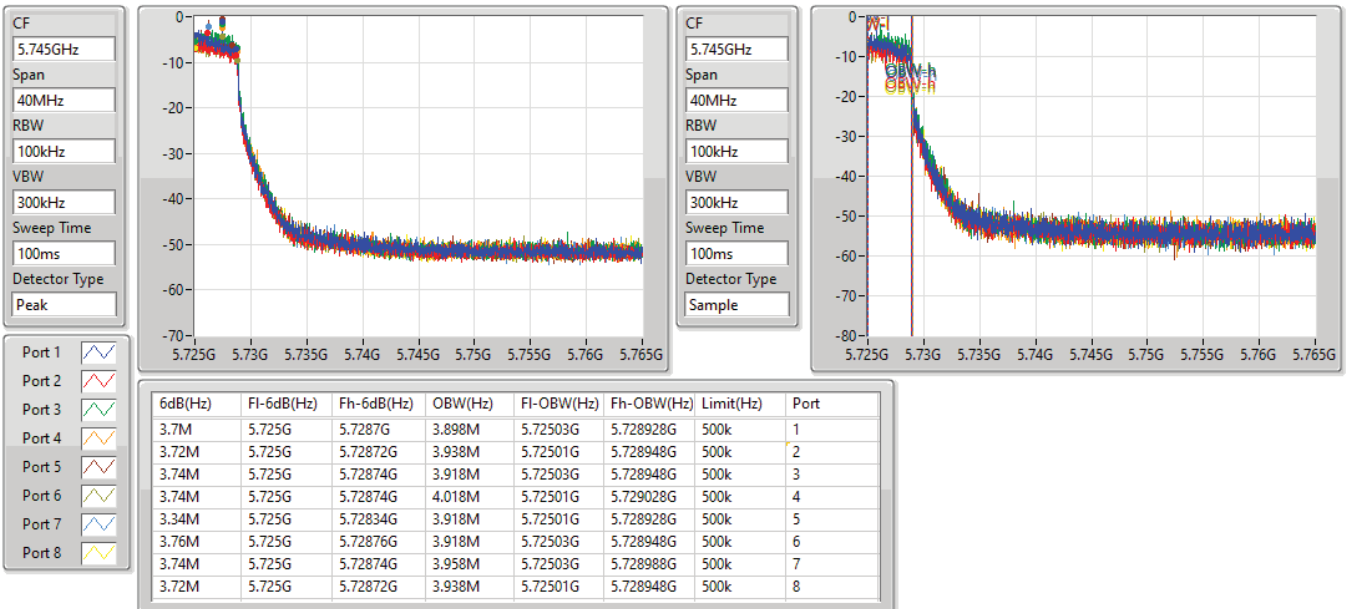


802.11n HT20_Nss1,(MCS0)_8TX
EBW
5720MHz Straddle 5.47-5.725GHz

07/06/2021


802.11n HT20_Nss1,(MCS0)_8TX
EBW
5720MHz Straddle 5.725-5.85GHz

07/06/2021



802.11n HT40_Nss1,(MCS0)_8TX

EBW

5270MHz

07/06/2021

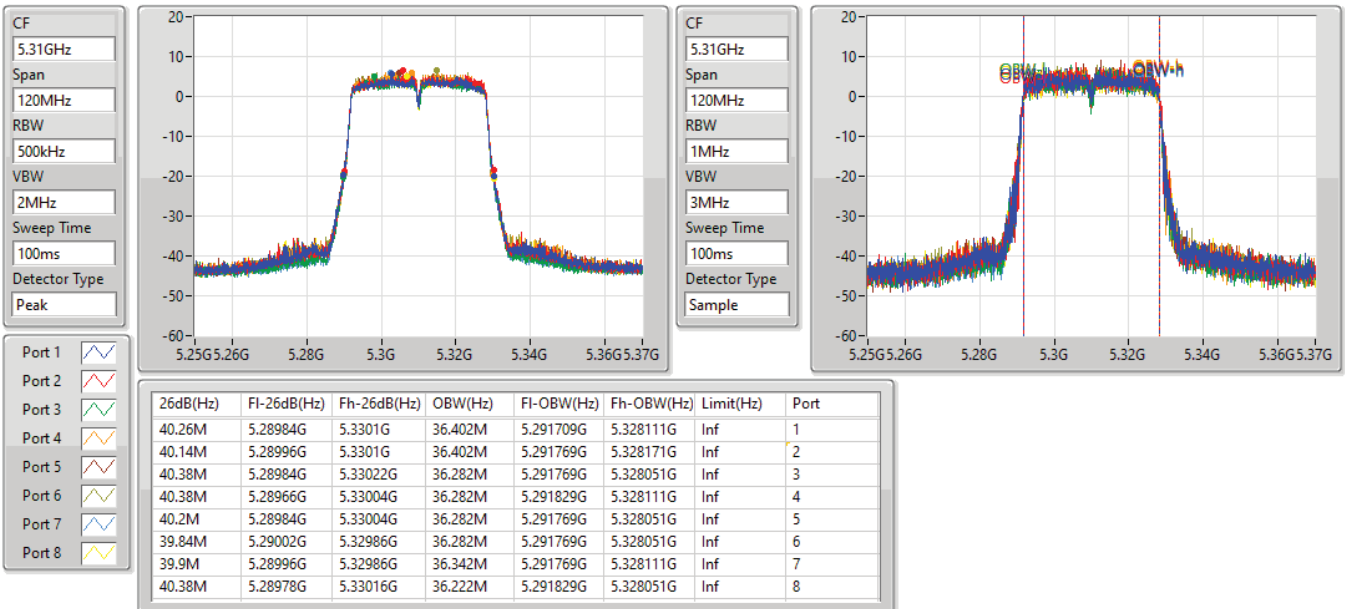


802.11n HT40_Nss1,(MCS0)_8TX

EBW

5310MHz

07/06/2021



802.11n HT40_Nss1,(MCS0)_8TX

EBW

5510MHz

08/06/2021



802.11n HT40_Nss1,(MCS0)_8TX

EBW

5550MHz

08/06/2021

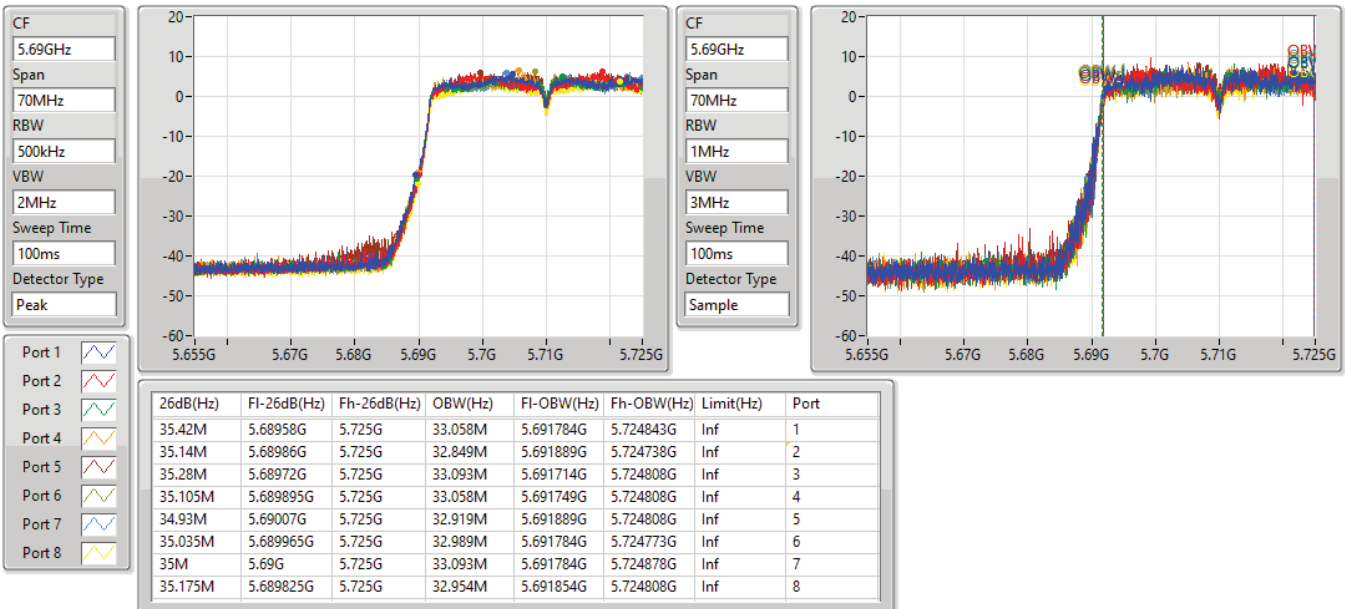


802.11n HT40_Nss1,(MCS0)_8TX
EBW
5670MHz

08/06/2021

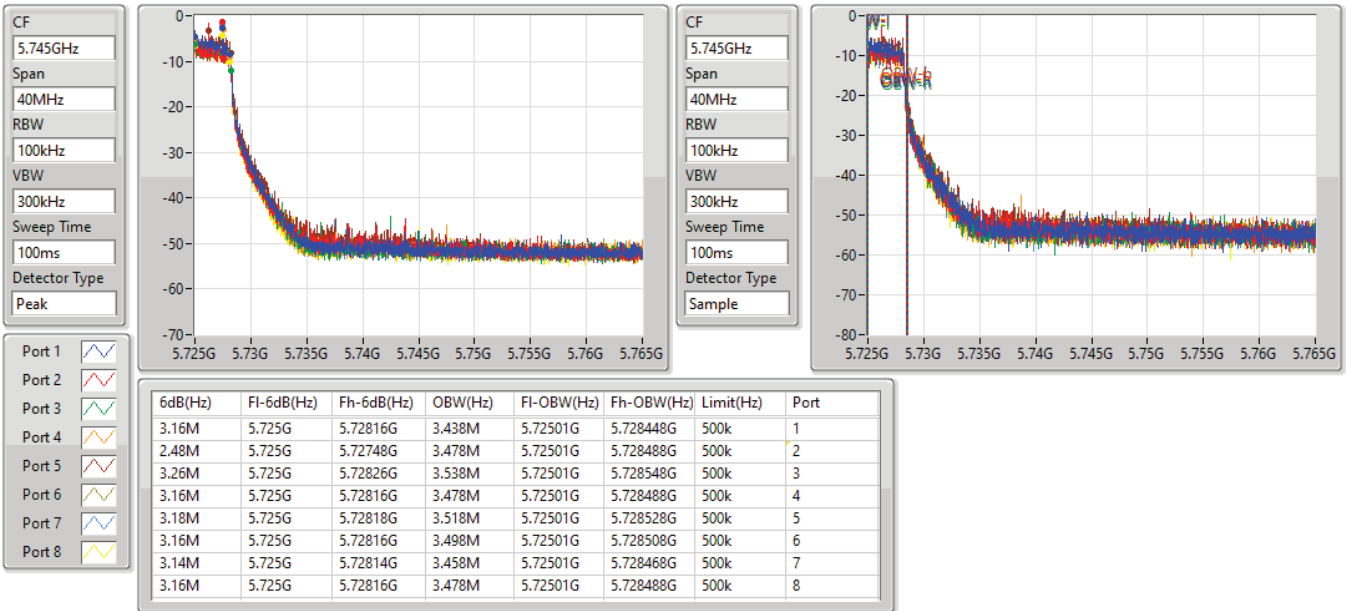

802.11n HT40_Nss1,(MCS0)_8TX
EBW
5710MHz Straddle 5.47-5.725GHz

08/06/2021

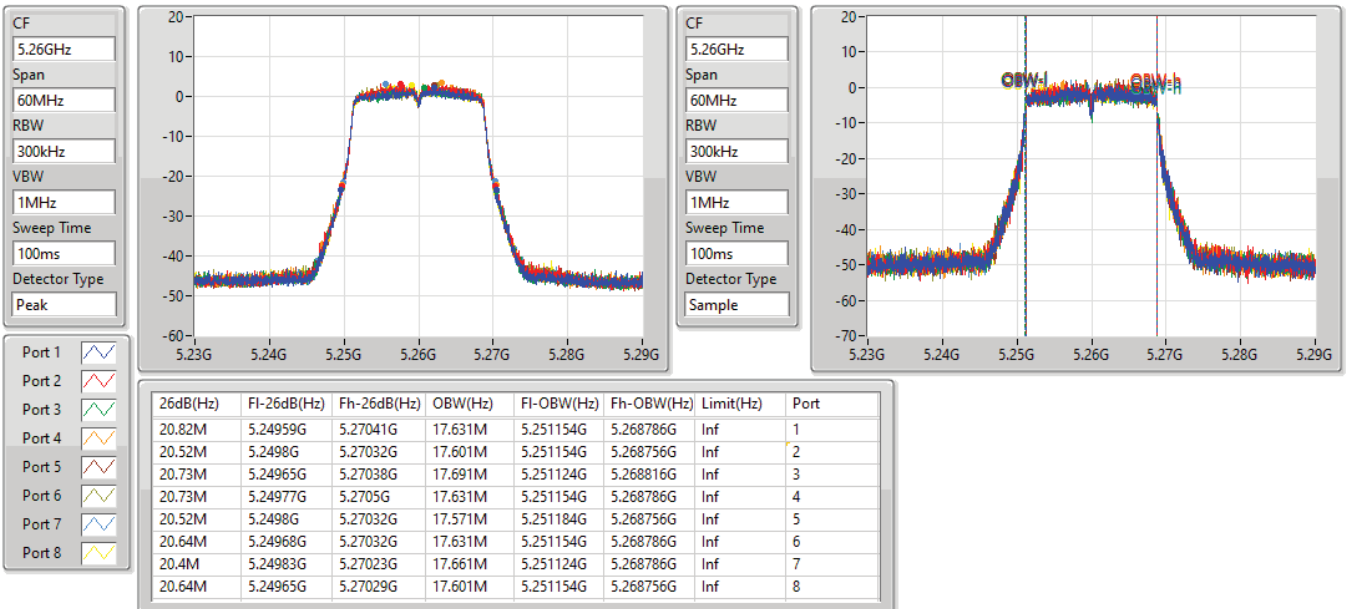


802.11n HT40_Nss1,(MCS0)_8TX
EBW
5710MHz Straddle 5.725-5.85GHz

08/06/2021

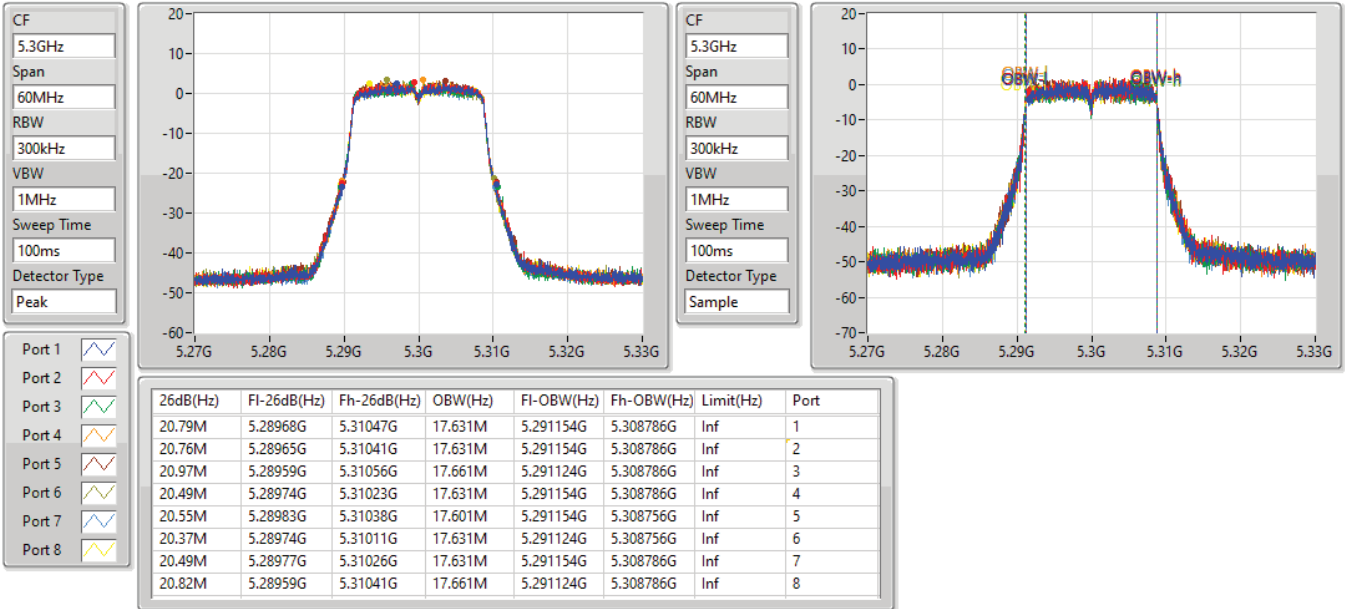

802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5260MHz

07/06/2021

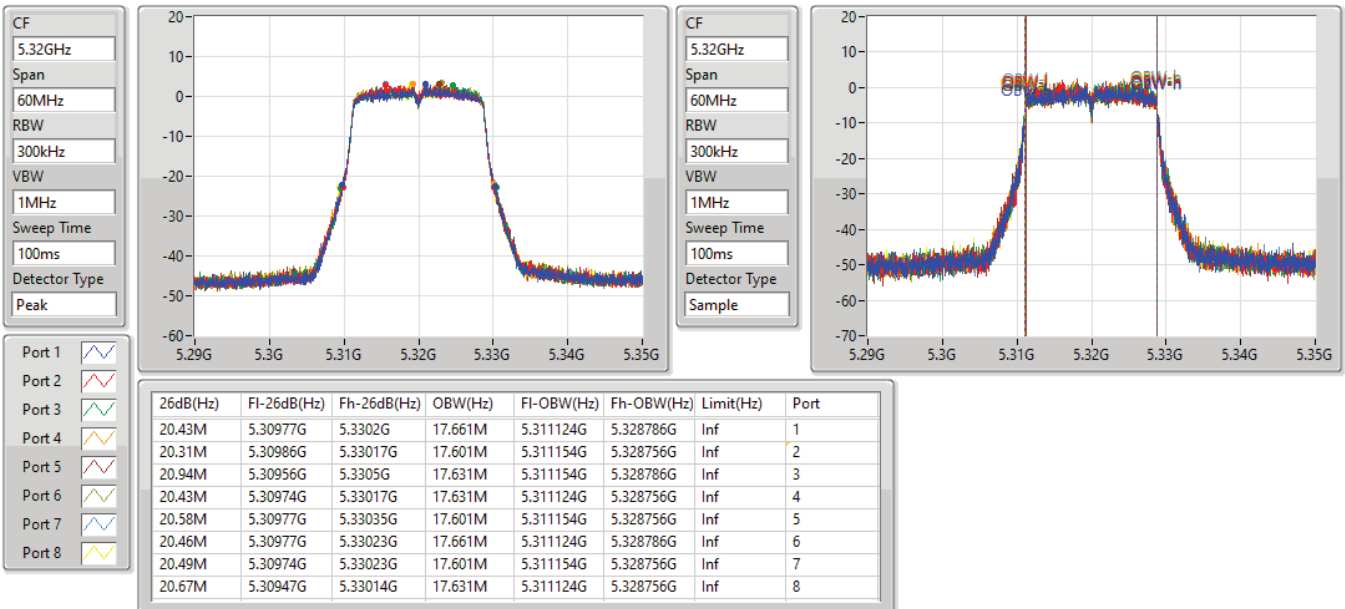


802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5300MHz

07/06/2021


802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5320MHz

07/06/2021

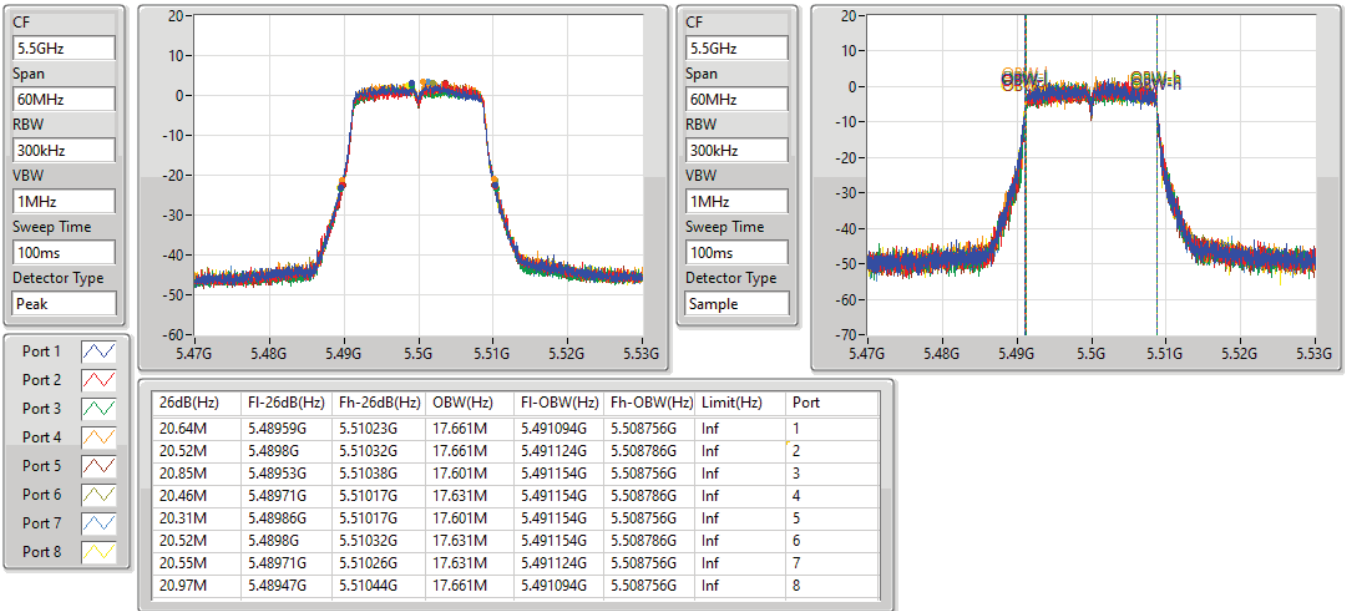


802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

5500MHz

07/06/2021

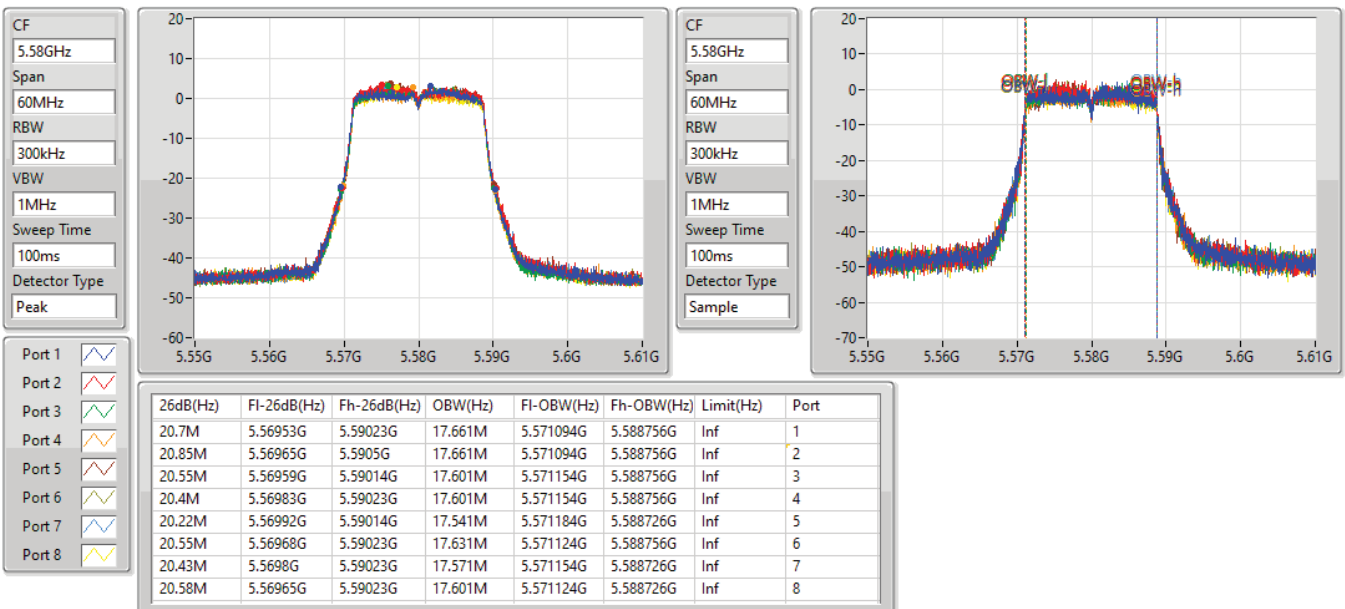


802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

5580MHz

07/06/2021

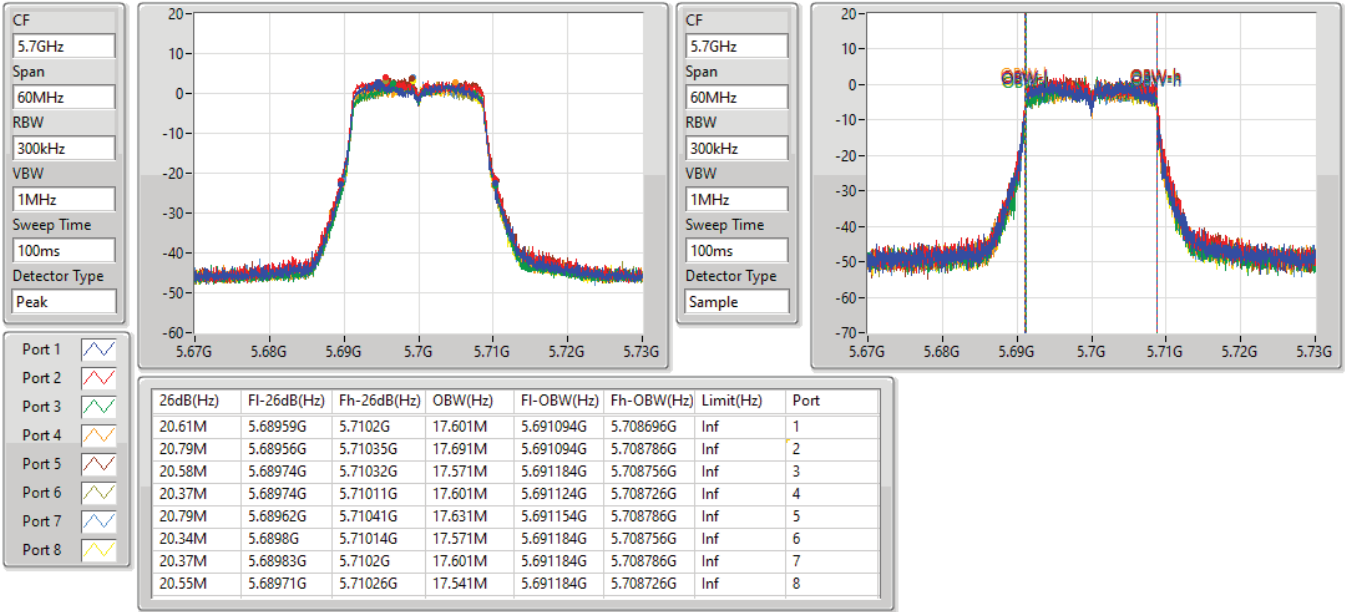


802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

5700MHz

07/06/2021

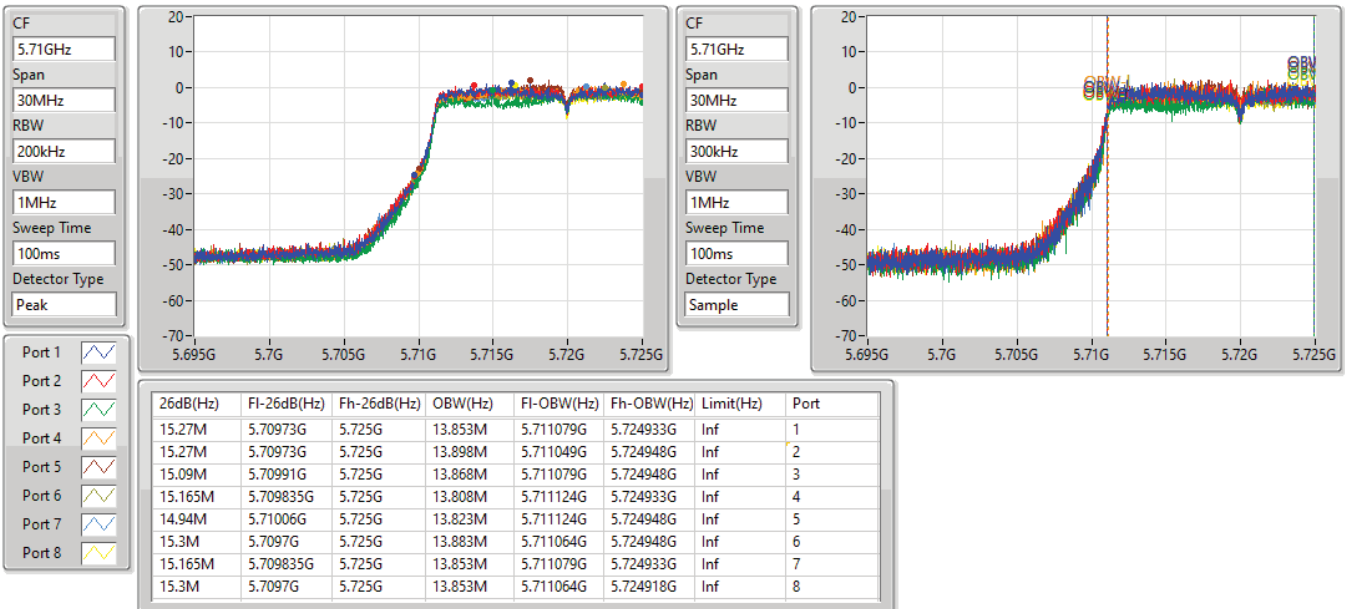


802.11ac VHT20_Nss1,(MCS0)_8TX

EBW

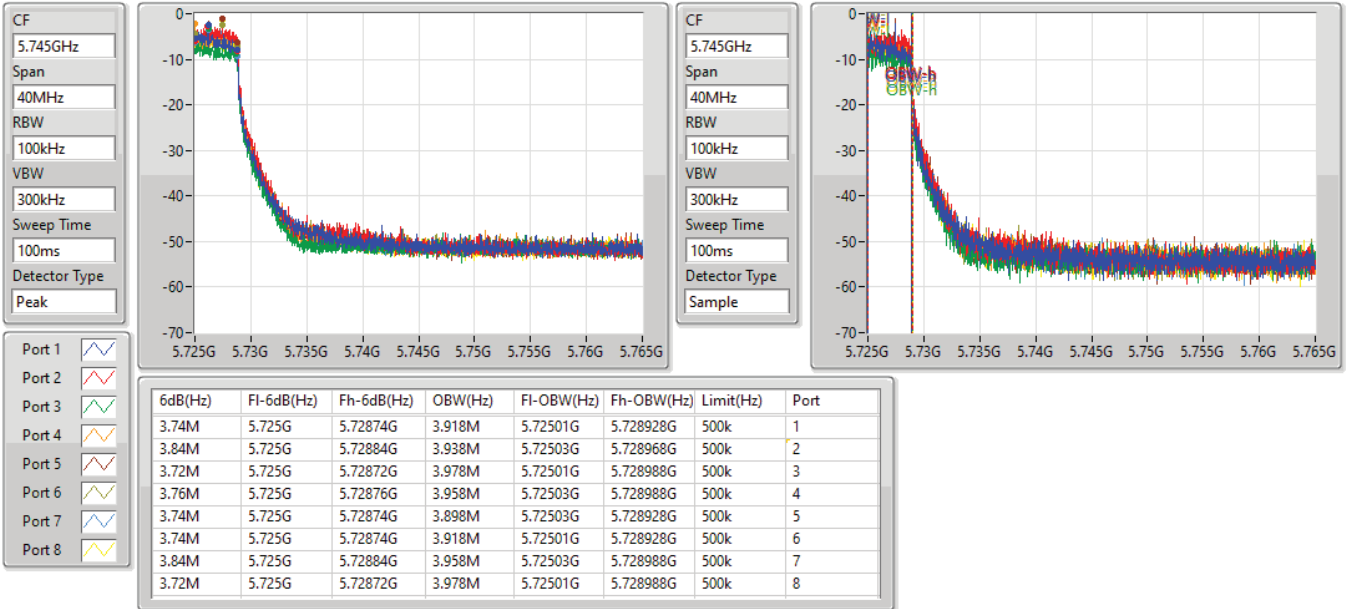
5720MHz Straddle 5.47-5.725GHz

07/06/2021

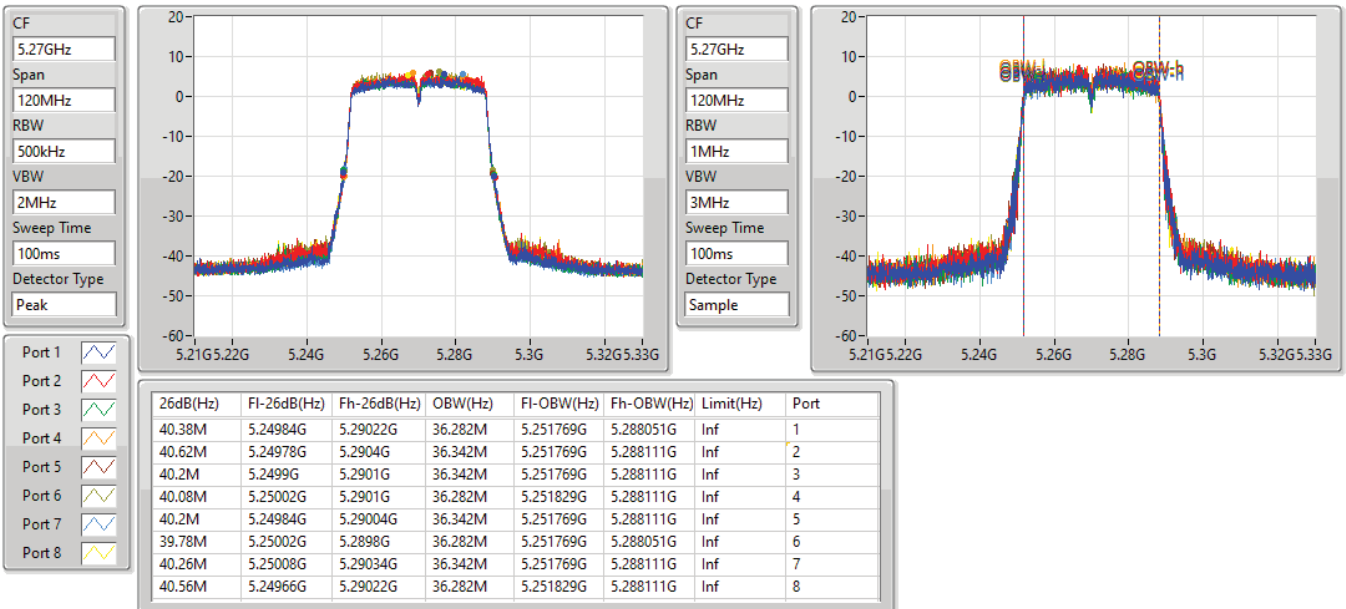


802.11ac VHT20_Nss1,(MCS0)_8TX
EBW
5720MHz Straddle 5.725-5.85GHz

07/06/2021


802.11ac VHT40_Nss1,(MCS0)_8TX
EBW
5270MHz

07/06/2021

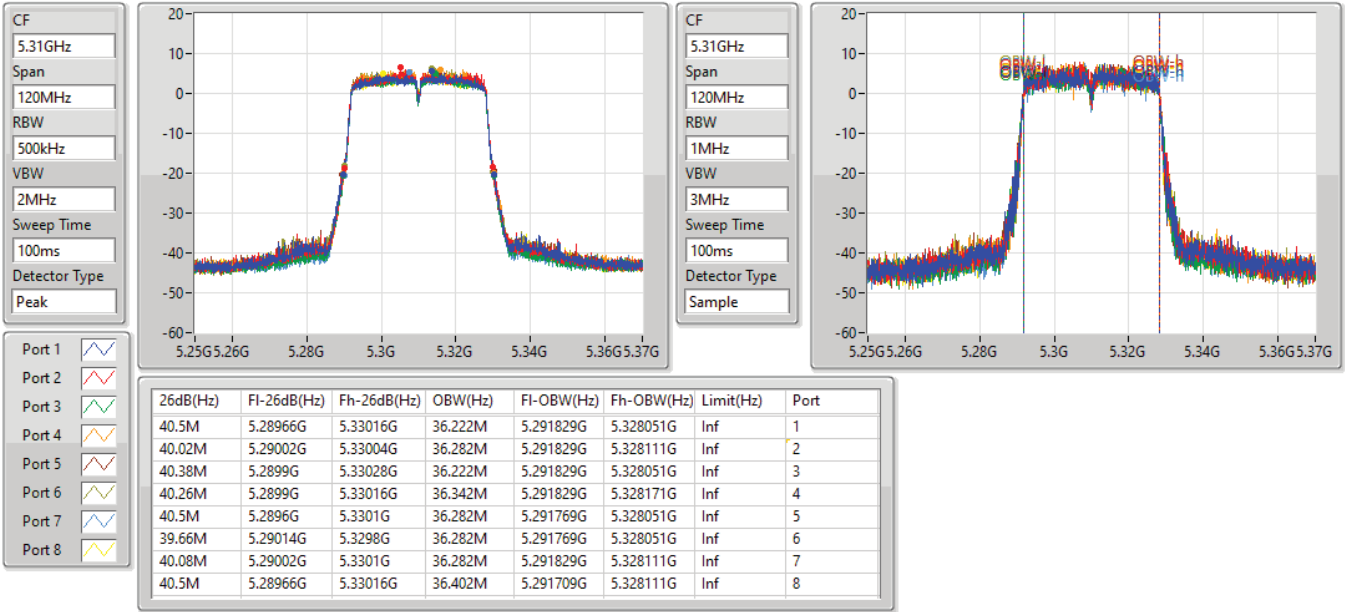


802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

5310MHz

07/06/2021

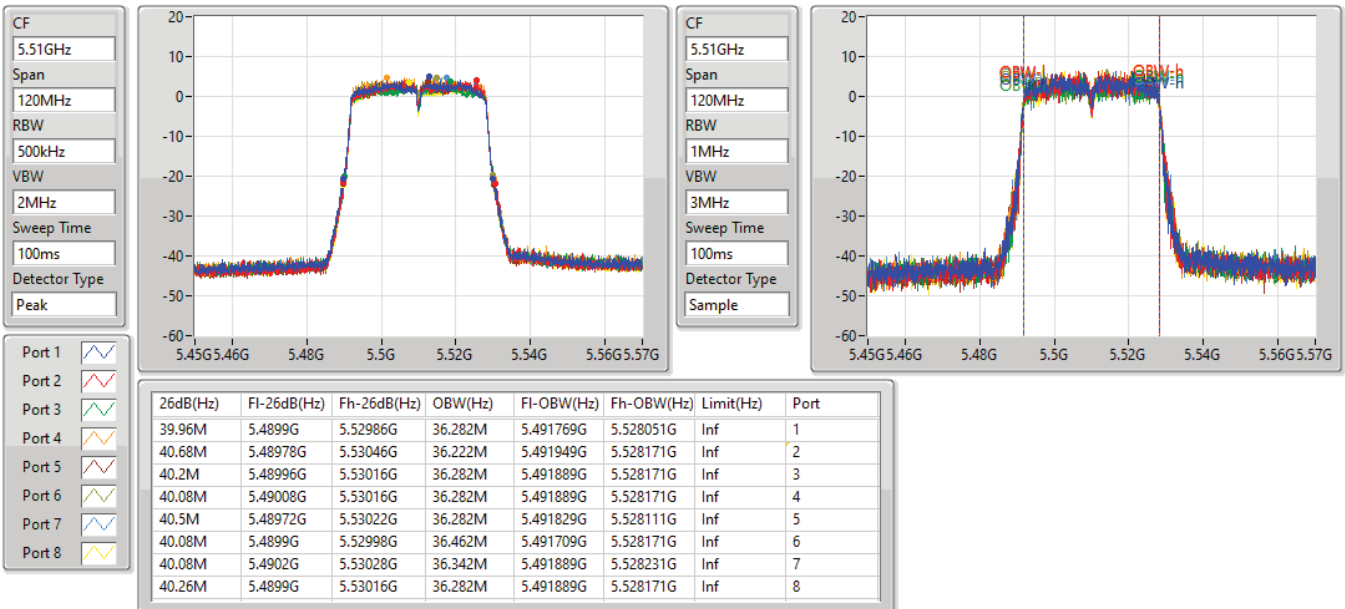


802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

5510MHz

08/06/2021

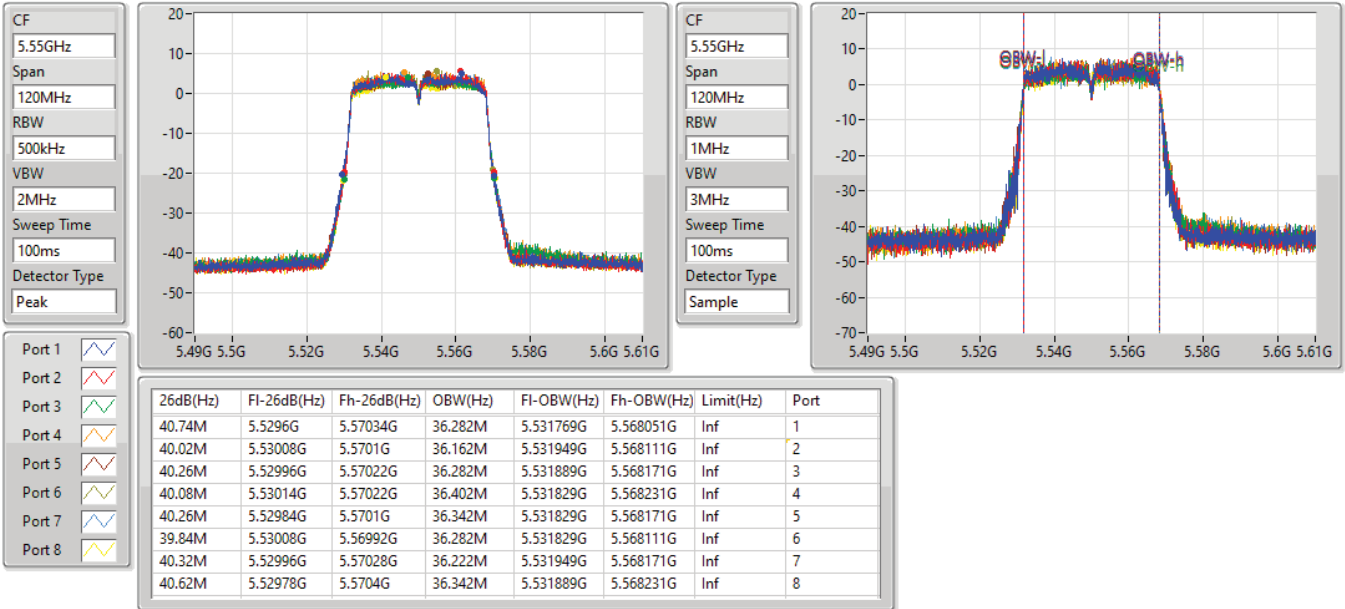


802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

5550MHz

08/06/2021



802.11ac VHT40_Nss1,(MCS0)_8TX

EBW

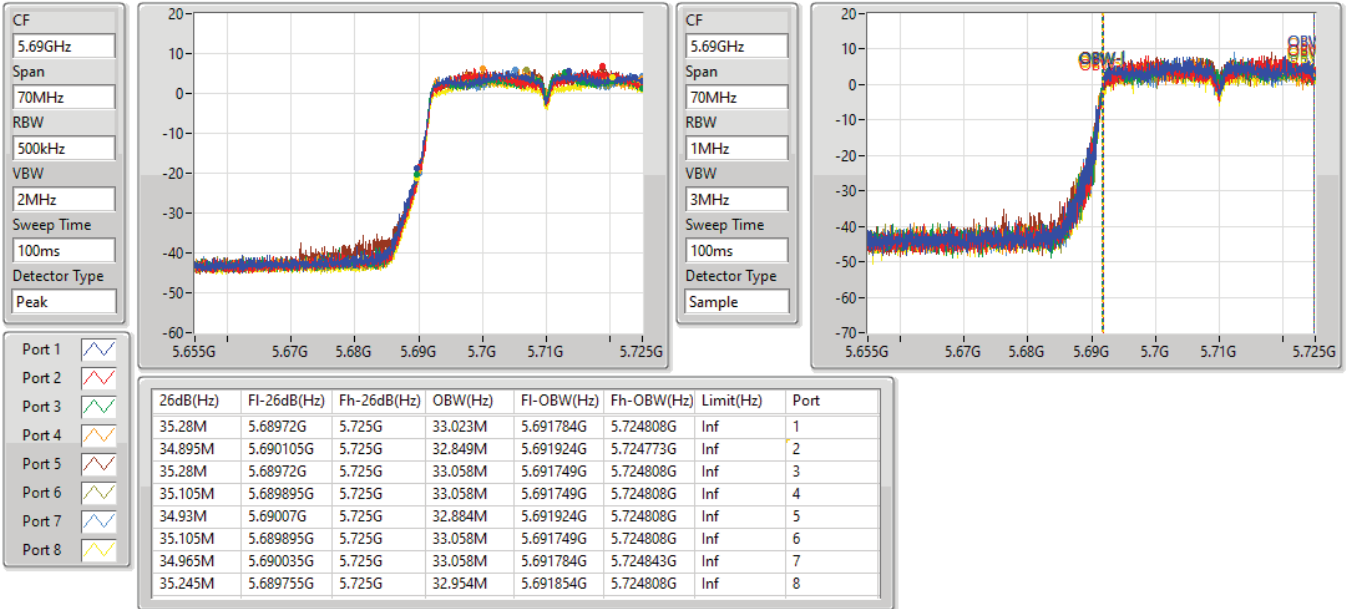
5670MHz

08/06/2021

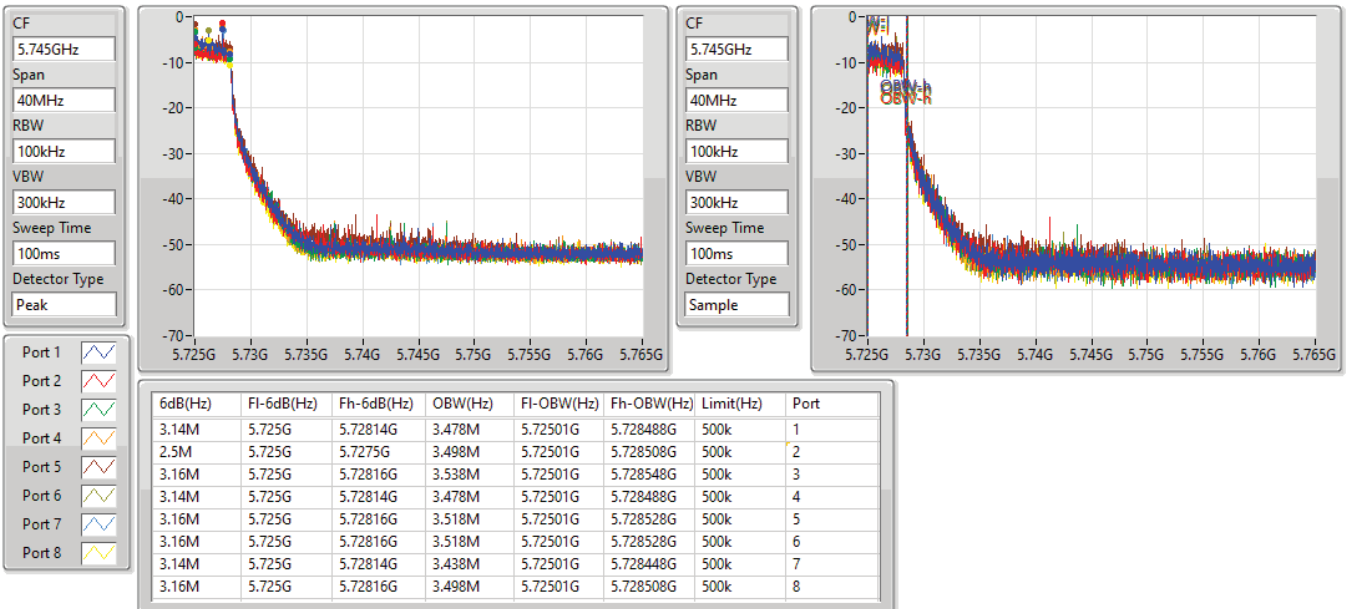


802.11ac VHT40_Nss1,(MCS0)_8TX
EBW
5710MHz Straddle 5.47-5.725GHz

08/06/2021


802.11ac VHT40_Nss1,(MCS0)_8TX
EBW
5710MHz Straddle 5.725-5.85GHz

08/06/2021

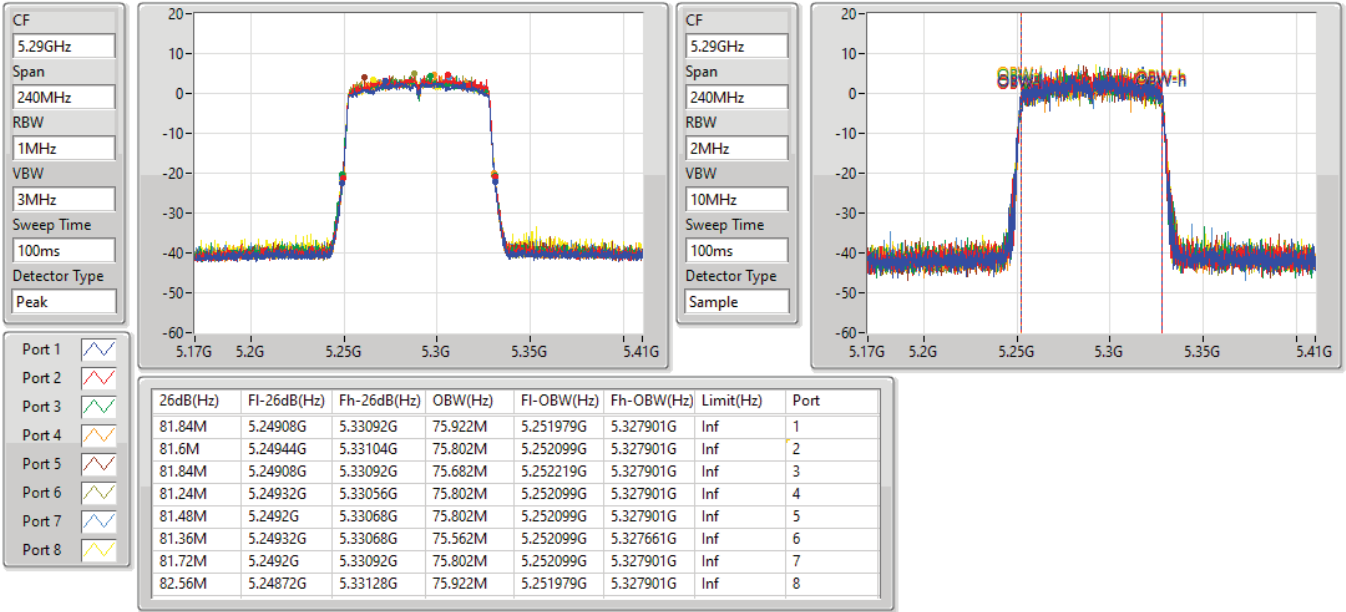


802.11ac VHT80_Nss1,(MCS0)_8TX

EBW

5290MHz

08/06/2021

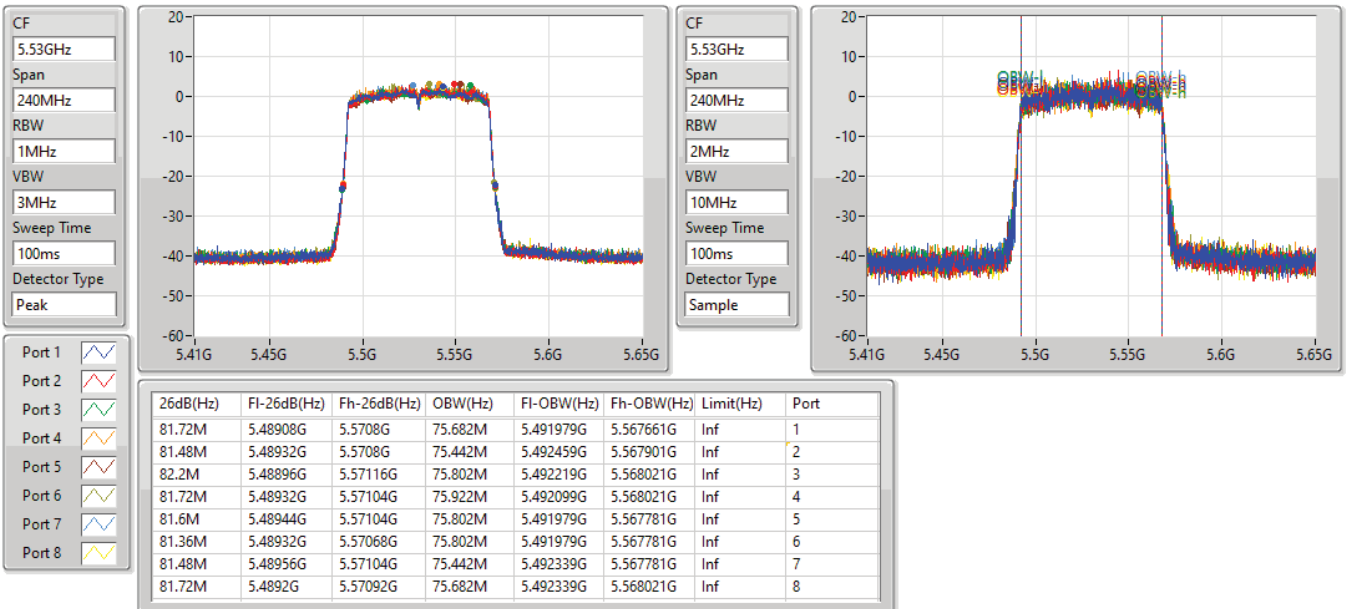


802.11ac VHT80_Nss1,(MCS0)_8TX

EBW

5530MHz

08/06/2021

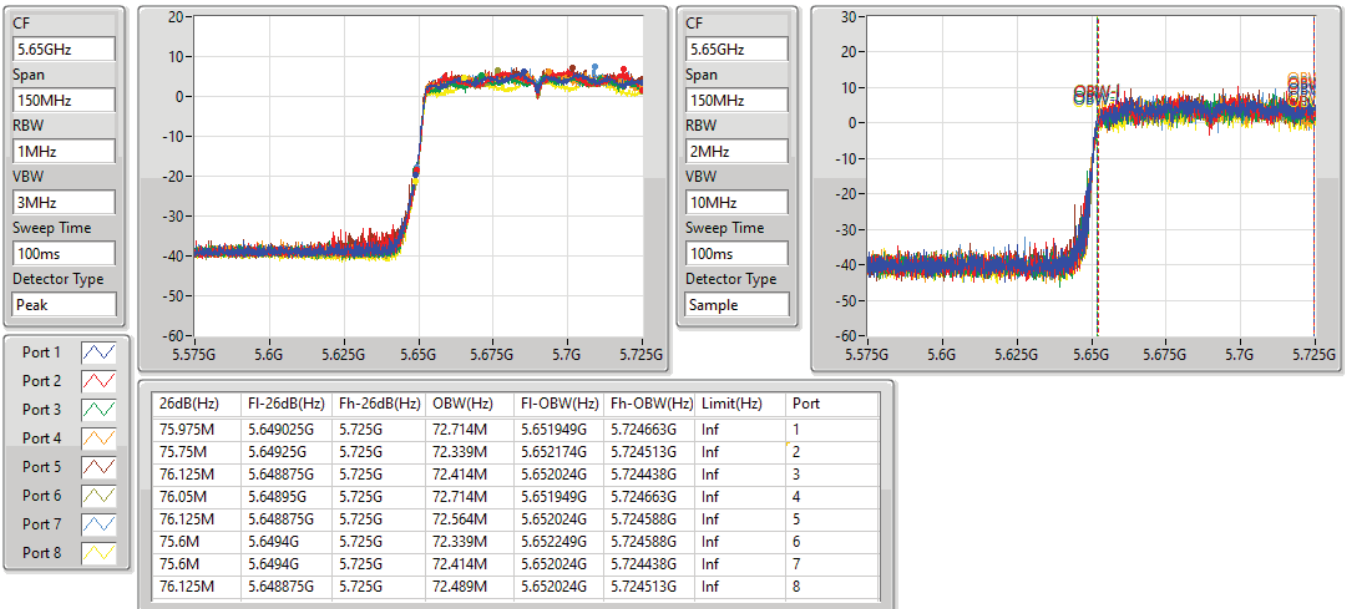


802.11ac VHT80_Nss1,(MCS0)_8TX
EBW
5610MHz

08/06/2021


802.11ac VHT80_Nss1,(MCS0)_8TX
EBW
5690MHz Straddle 5.47-5.725GHz

08/06/2021

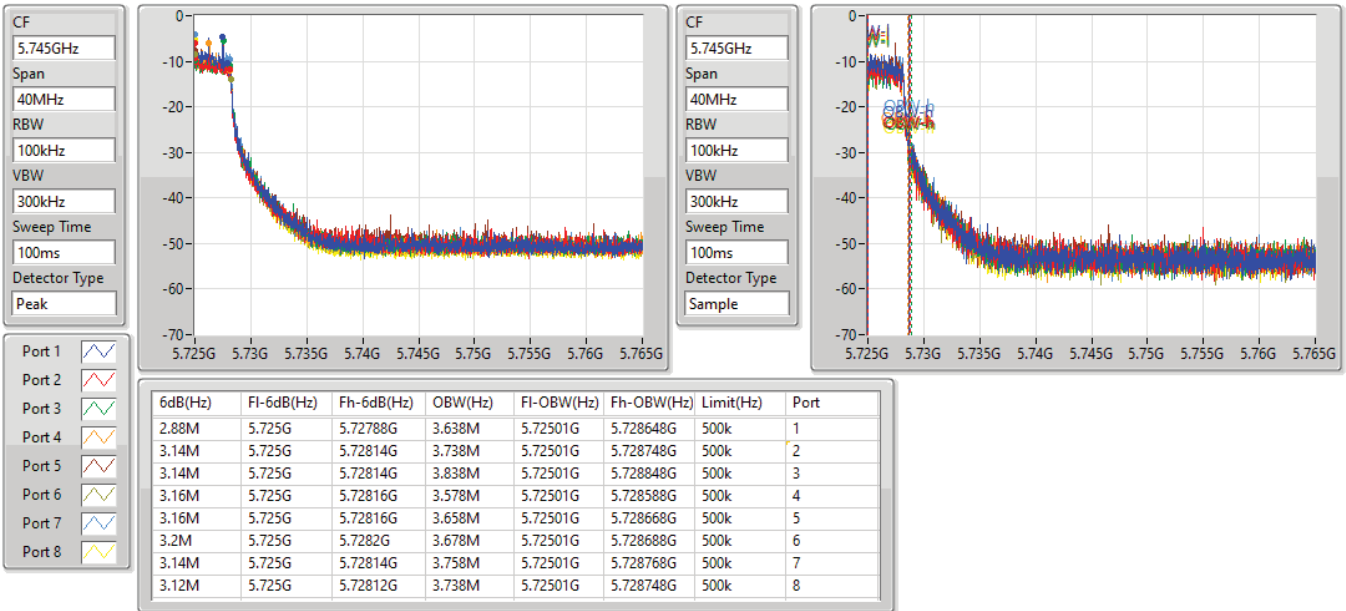


802.11ac VHT80_Nss1,(MCS0)_8TX

EBW

5690MHz Straddle 5.725-5.85GHz

08/06/2021

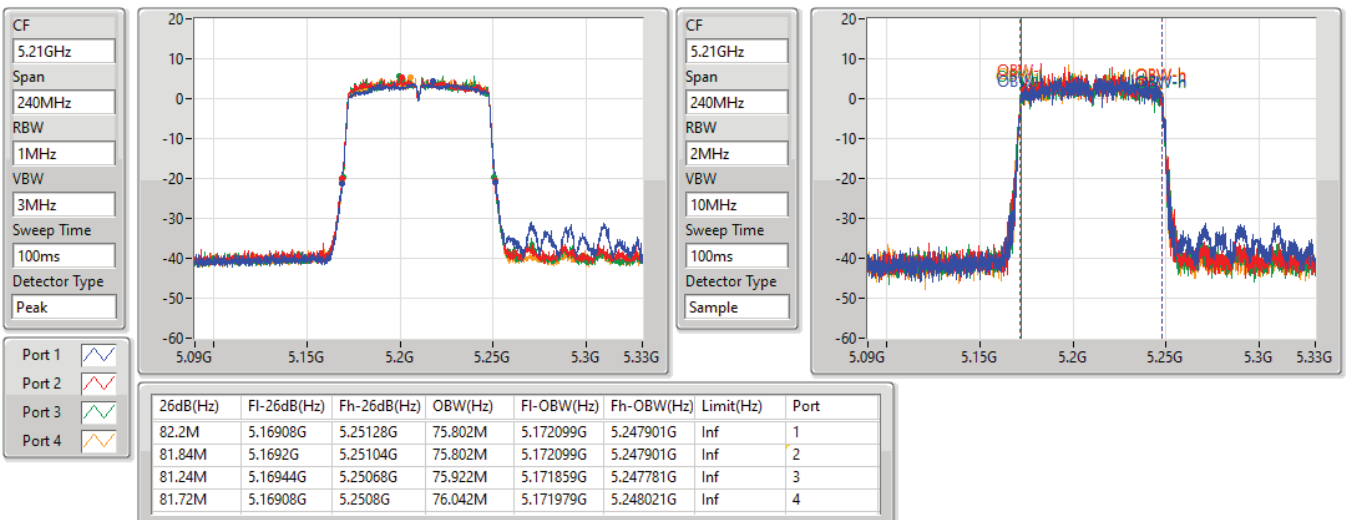


802.11ac VHT80+80_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)

EBW

#5210MHz,5290MHz

09/06/2021

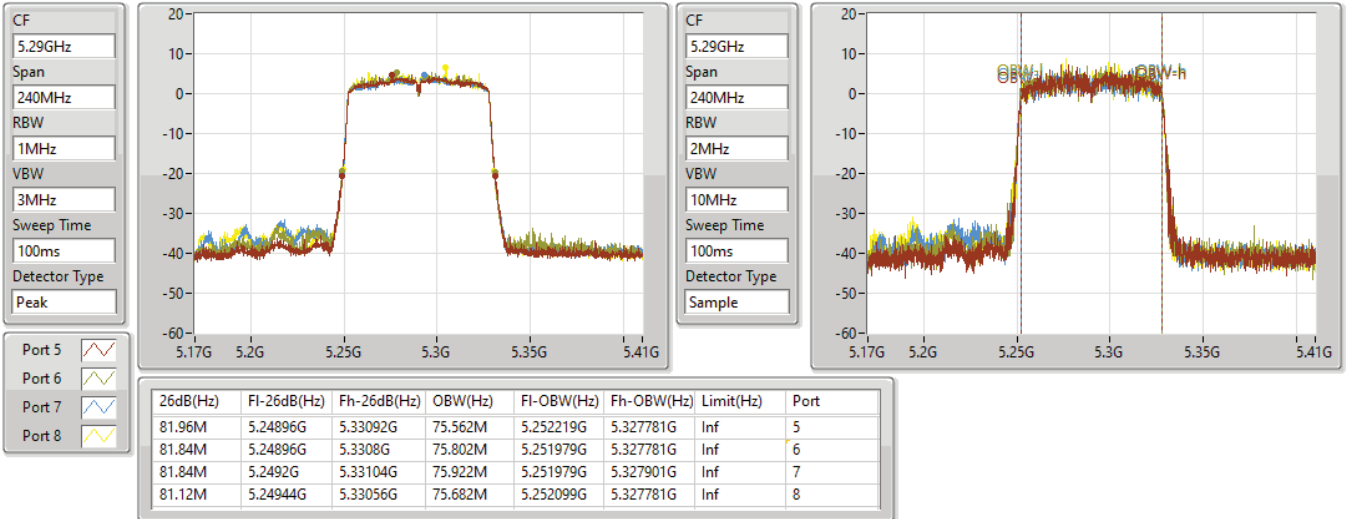


802.11ac VHT80+80_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)

EBW

5210MHz,#5290MHz

09/06/2021



802.11ac VHT80+80_Nss1,(MCS0)_8TX

EBW

#5530MHz,#5610MHz

09/06/2021

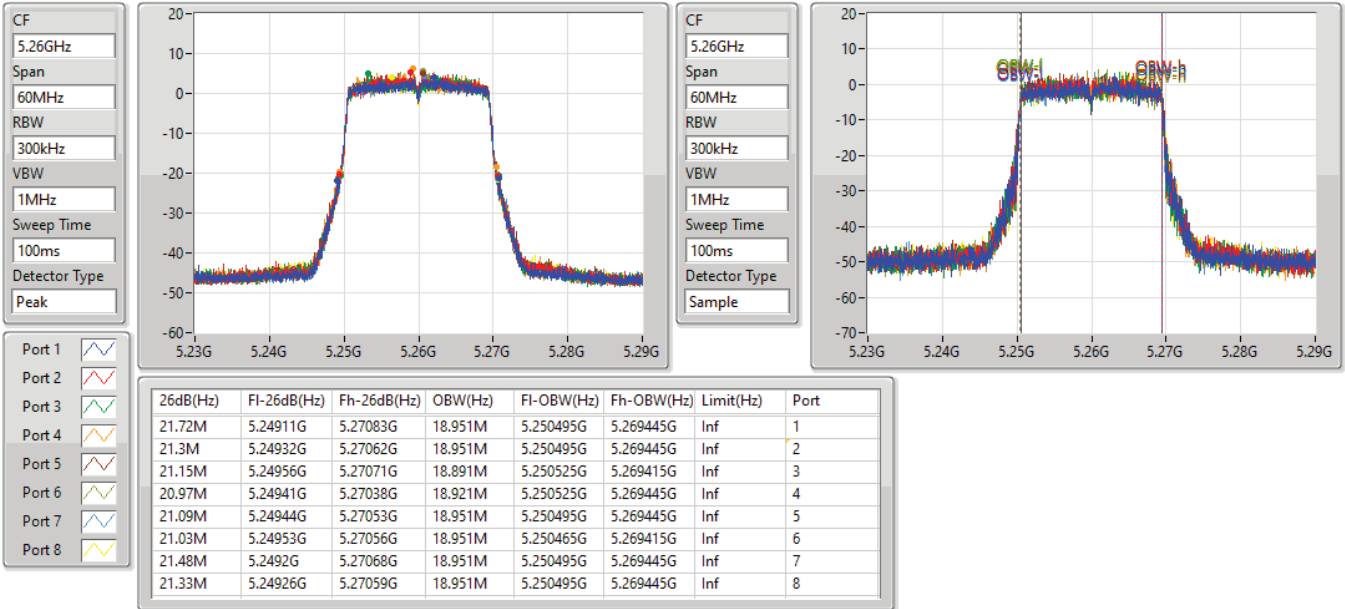


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5260MHz

07/06/2021

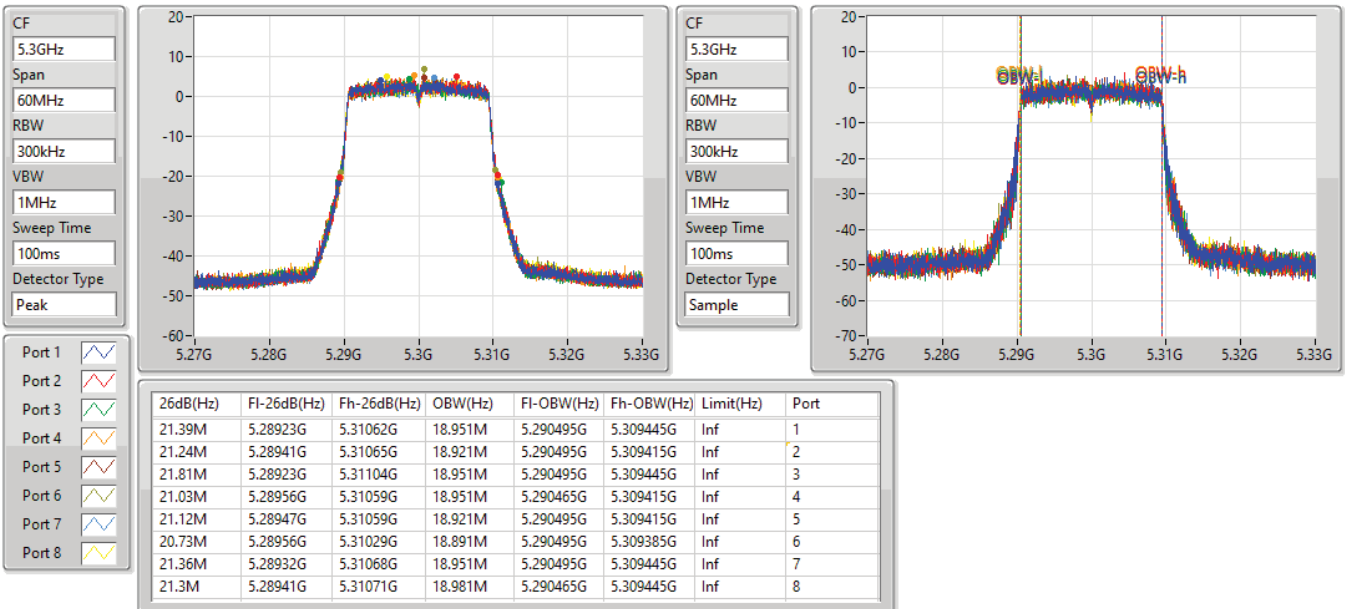


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5300MHz

07/06/2021

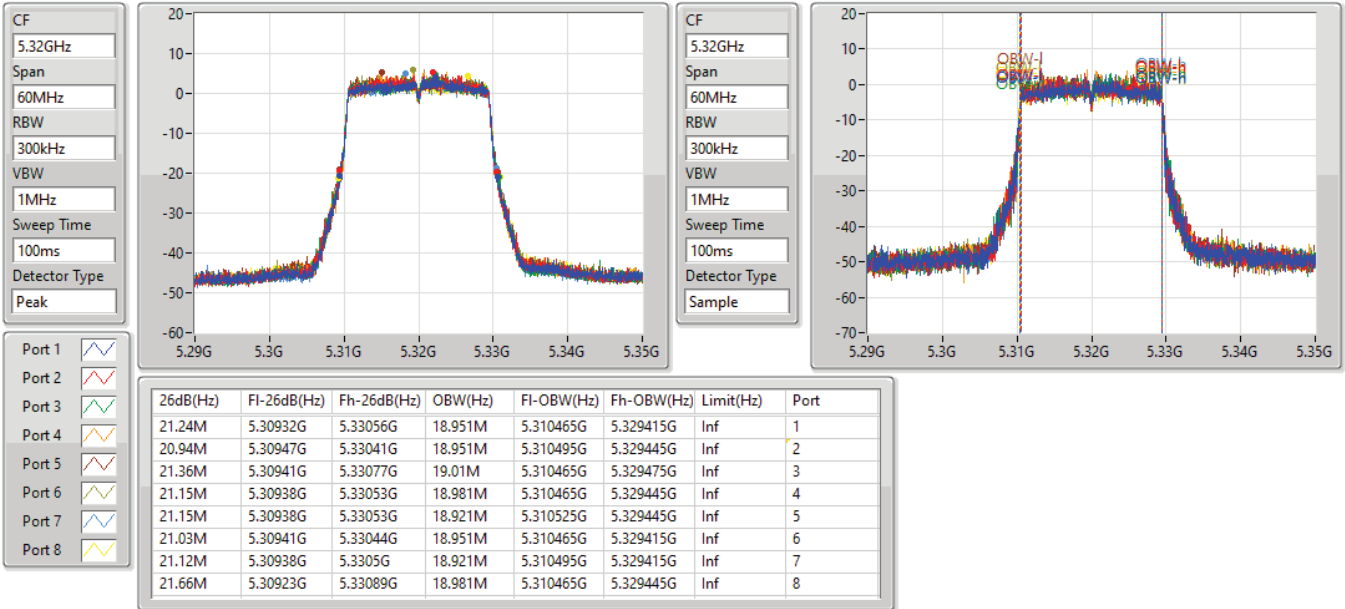


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5320MHz

07/06/2021

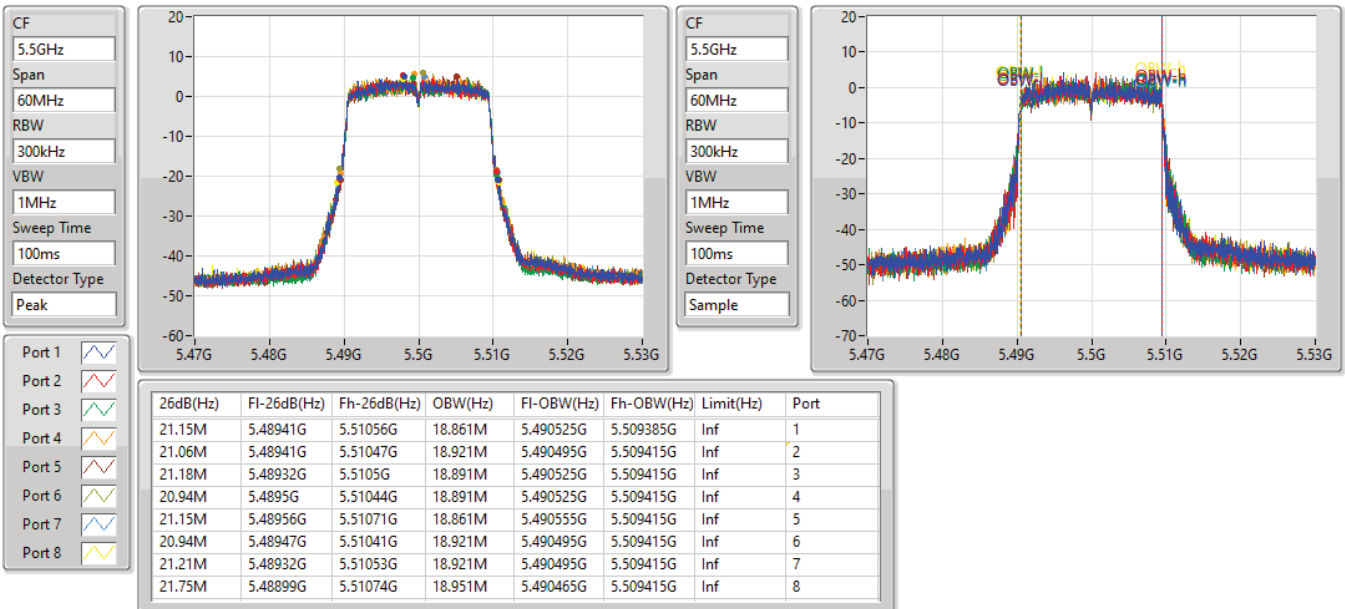


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5500MHz

07/06/2021

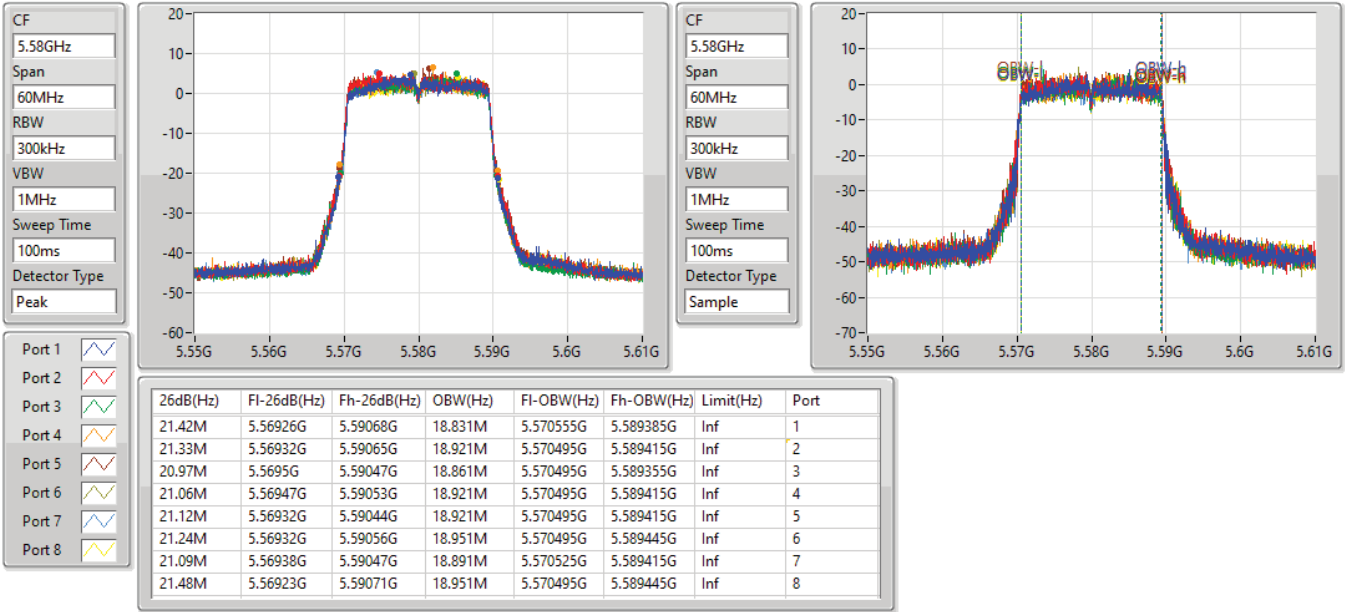


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5580MHz

07/06/2021

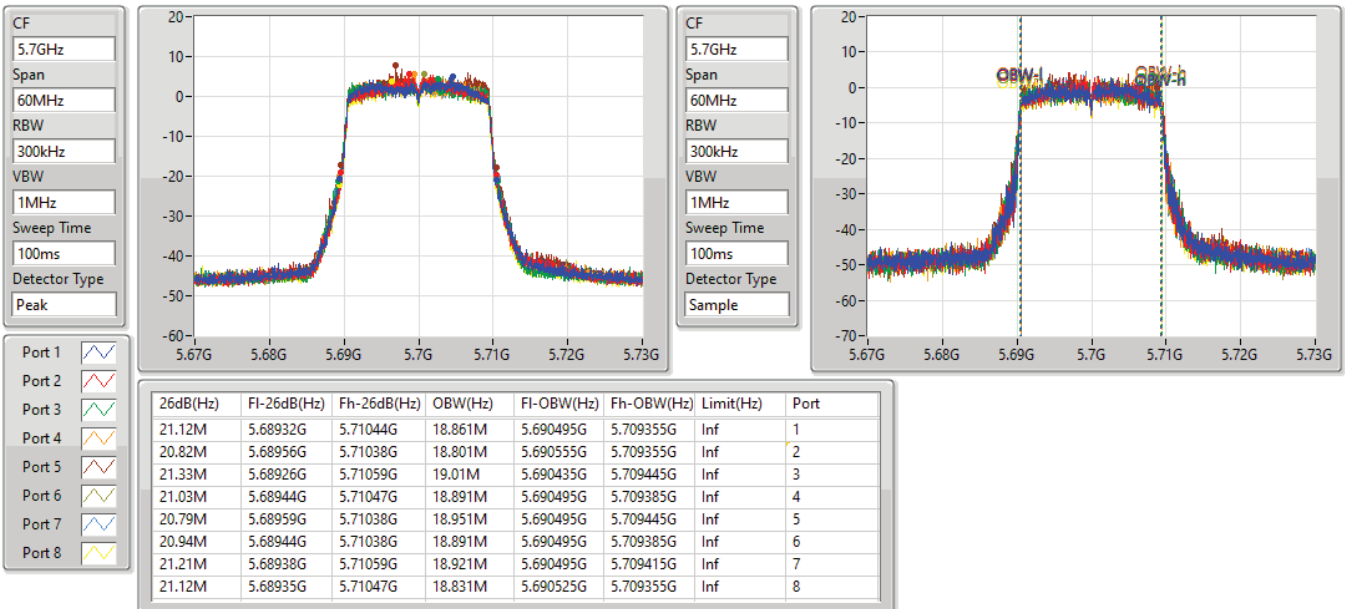


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5700MHz

07/06/2021

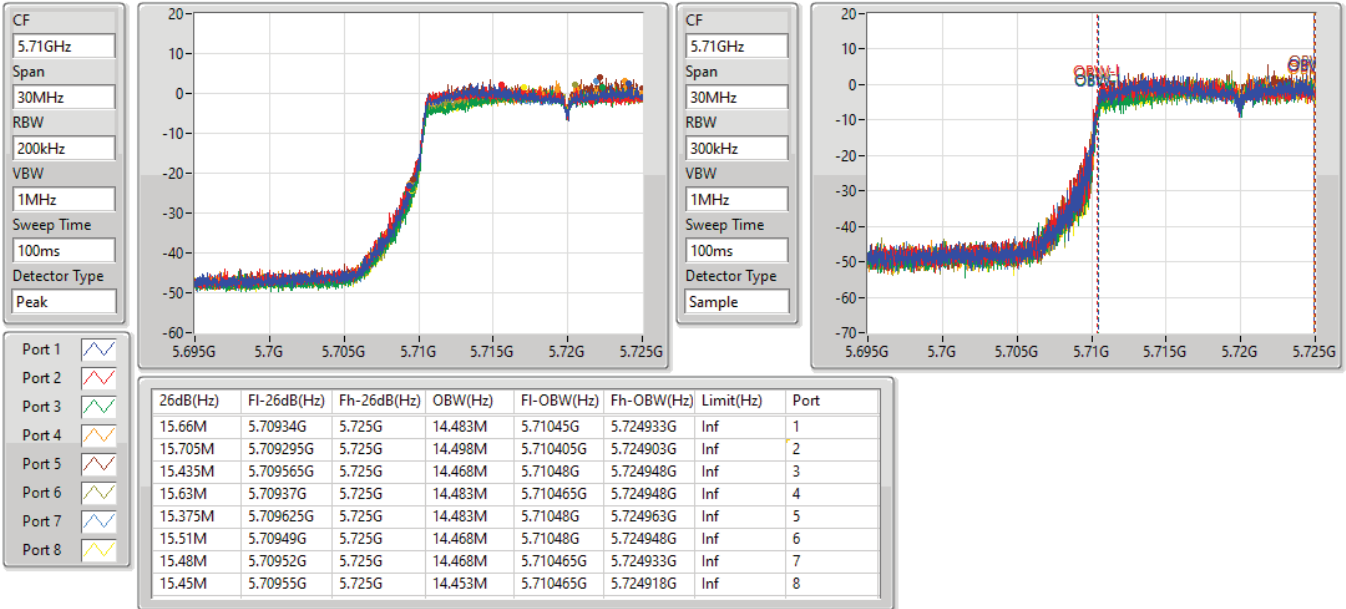


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5720MHz Straddle 5.47-5.725GHz

07/06/2021

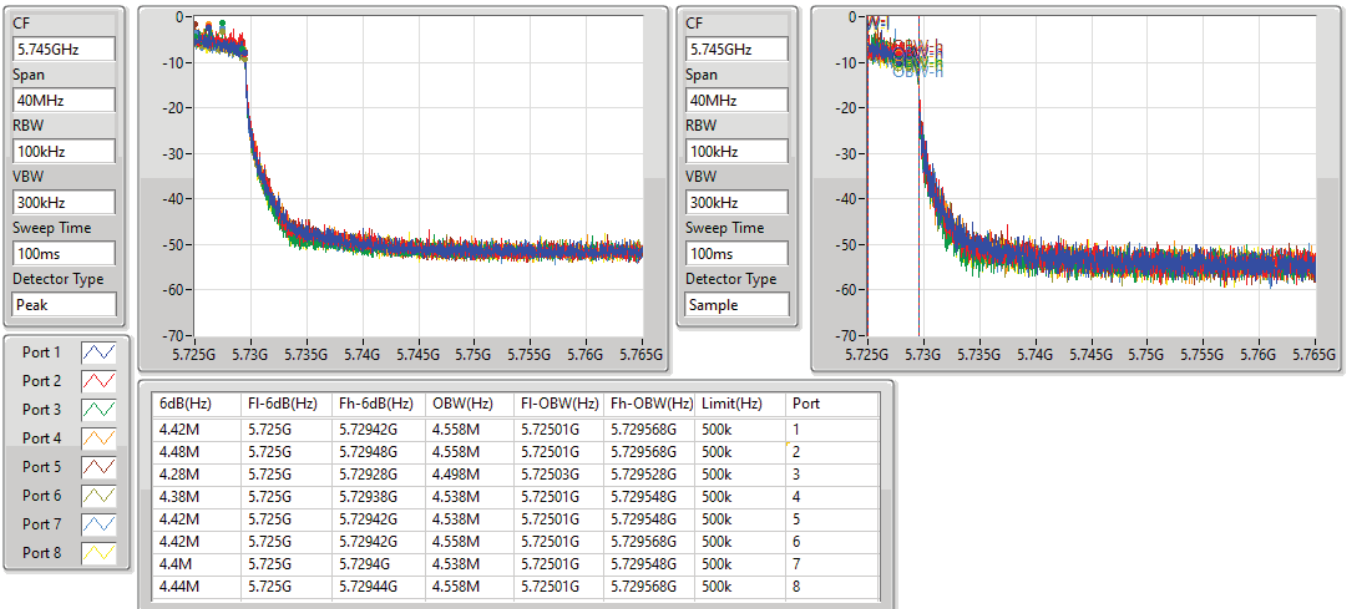


802.11ax HEW20_Nss1,(MCS0)_8TX

EBW

5720MHz Straddle 5.725-5.85GHz

07/06/2021

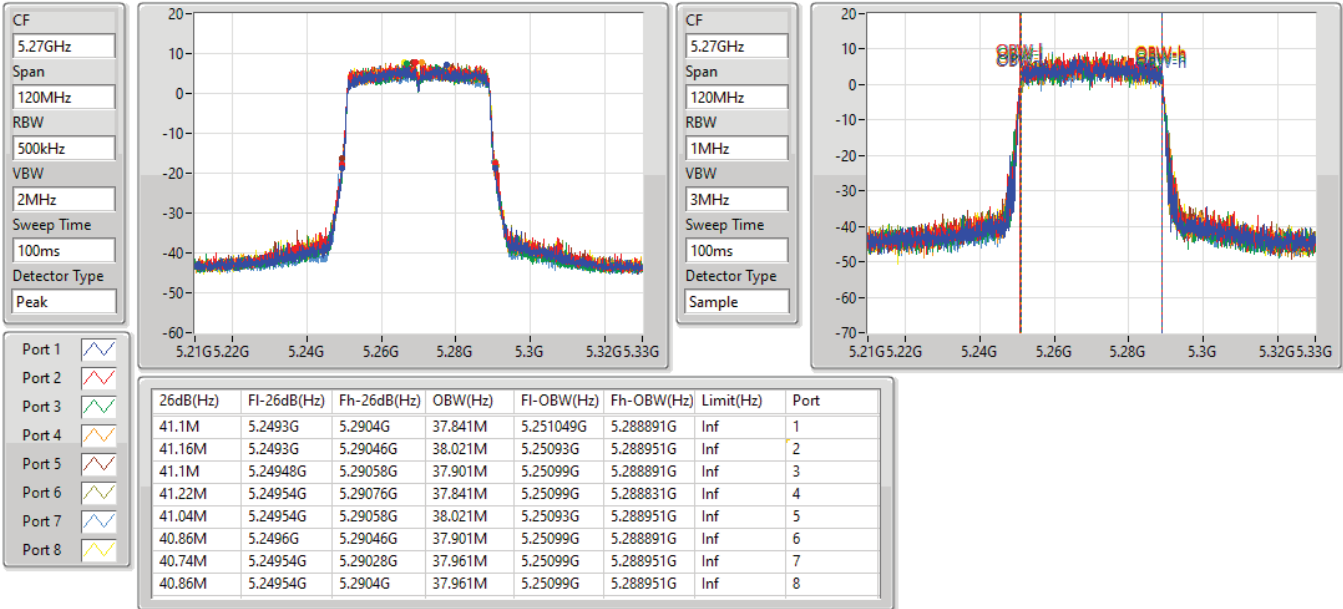


802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5270MHz

07/06/2021

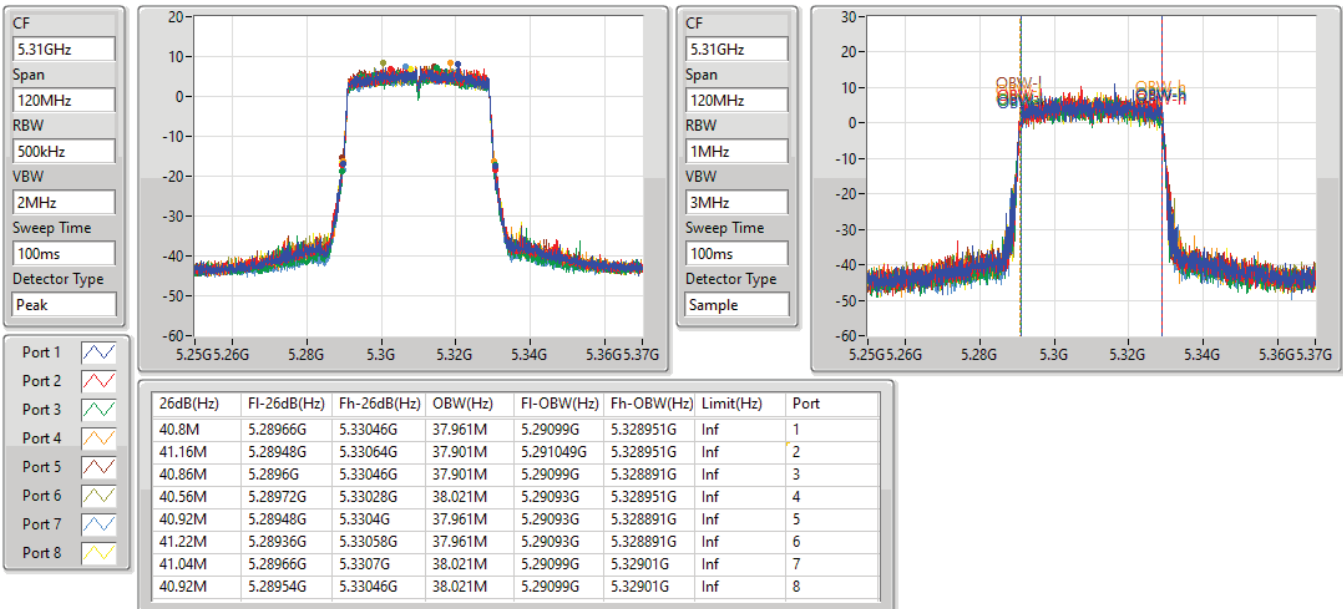


802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5310MHz

07/06/2021

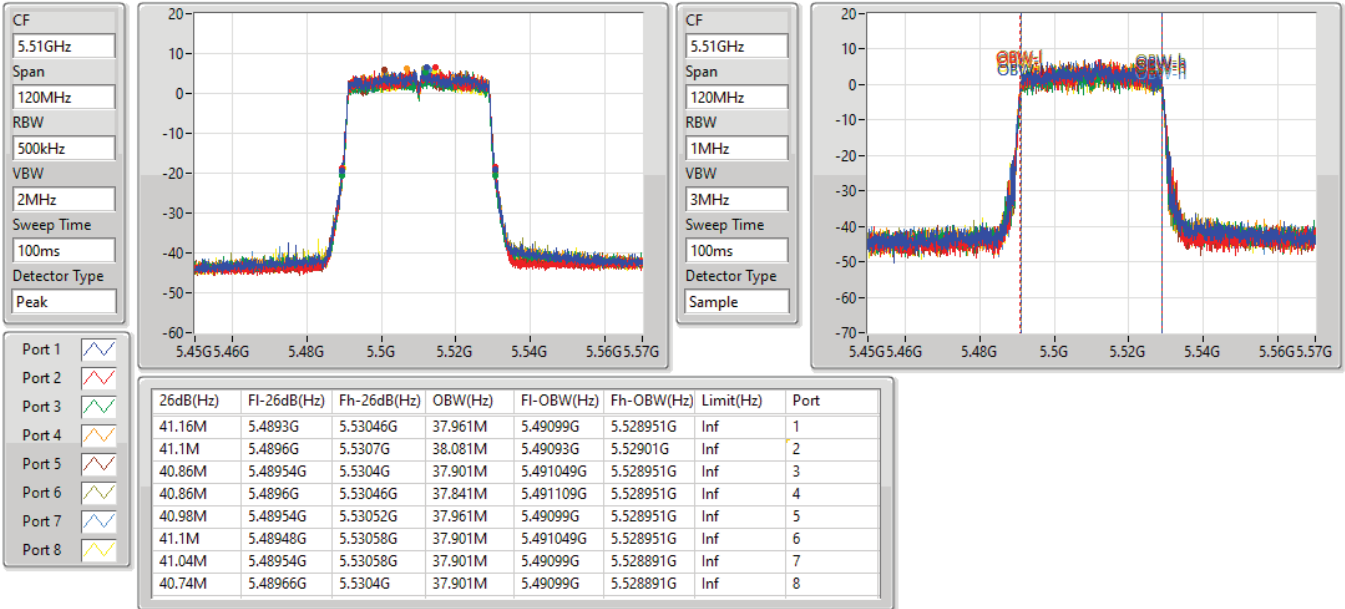


802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5510MHz

08/06/2021

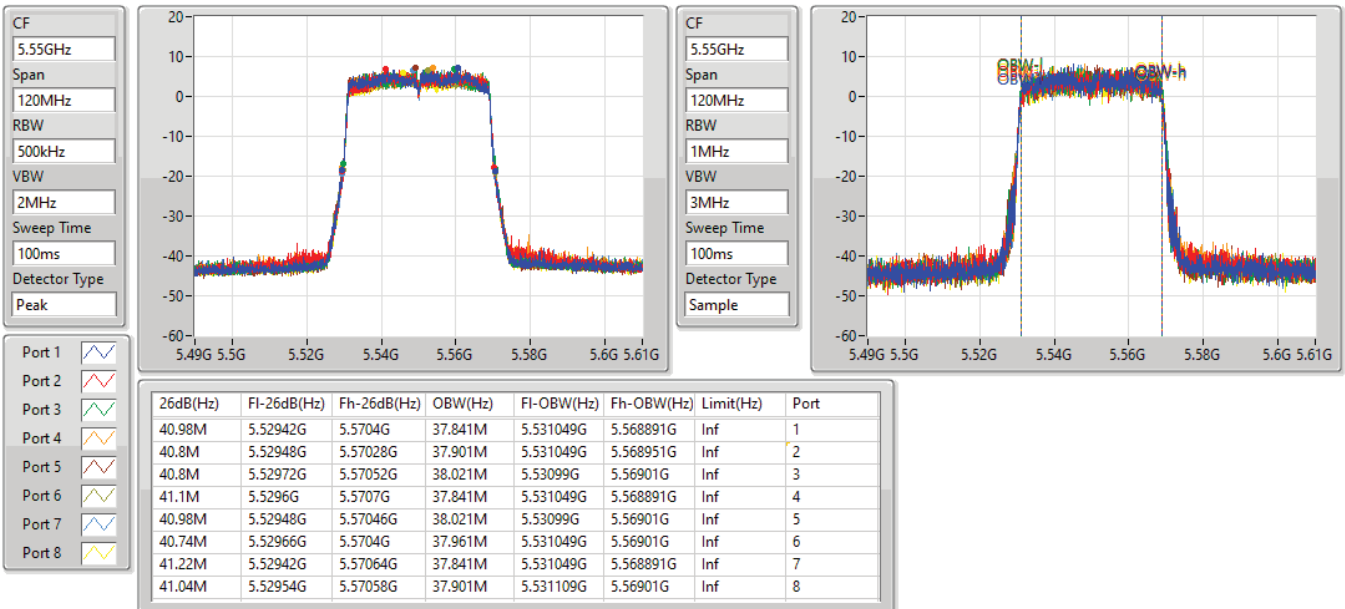


802.11ax HEW40_Nss1,(MCS0)_8TX

EBW

5550MHz

08/06/2021

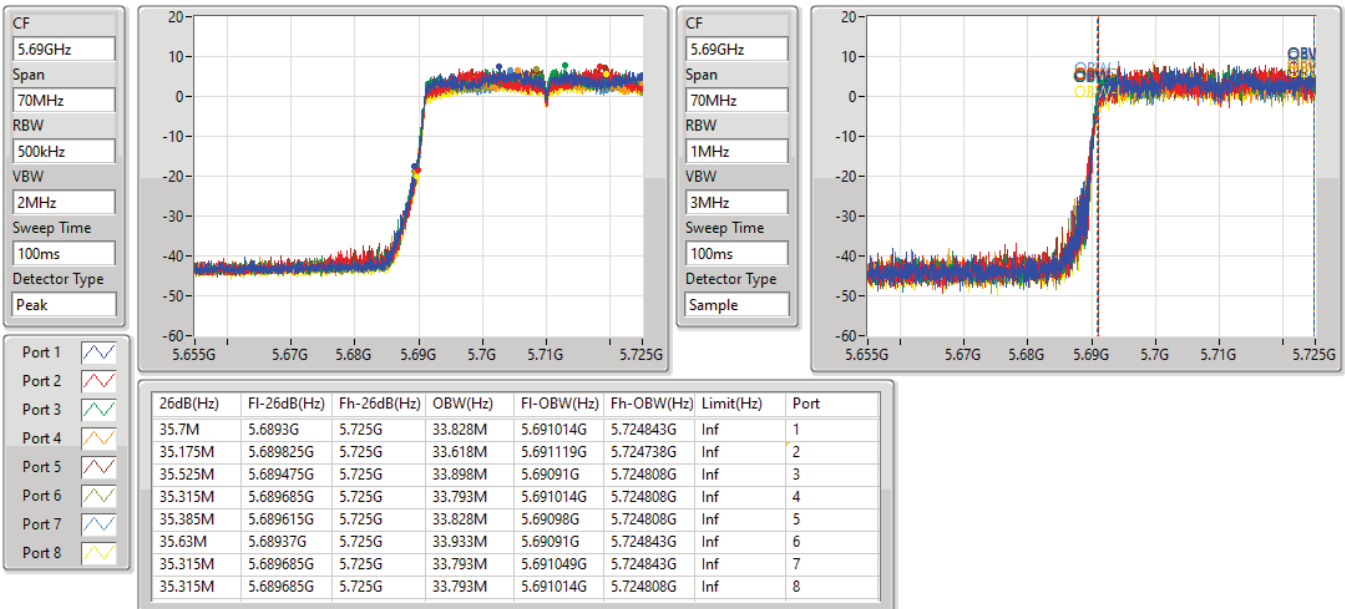


802.11ax HEW40_Nss1,(MCS0)_8TX
EBW
5670MHz

08/06/2021

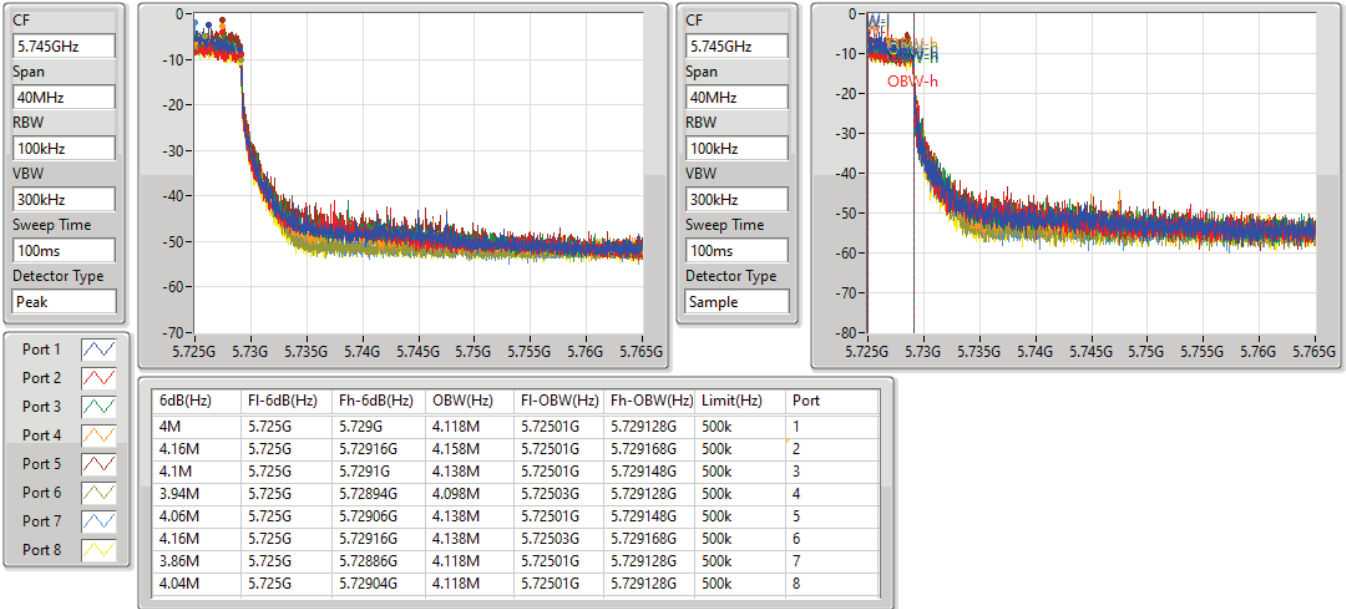

802.11ax HEW40_Nss1,(MCS0)_8TX
EBW
5710MHz Straddle 5.47-5.725GHz

08/06/2021



802.11ax HEW40_Nss1,(MCS0)_8TX
EBW
5710MHz Straddle 5.725-5.85GHz

08/06/2021


802.11ax HEW80_Nss1,(MCS0)_8TX
EBW
5290MHz

08/06/2021



802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

5530MHz

08/06/2021

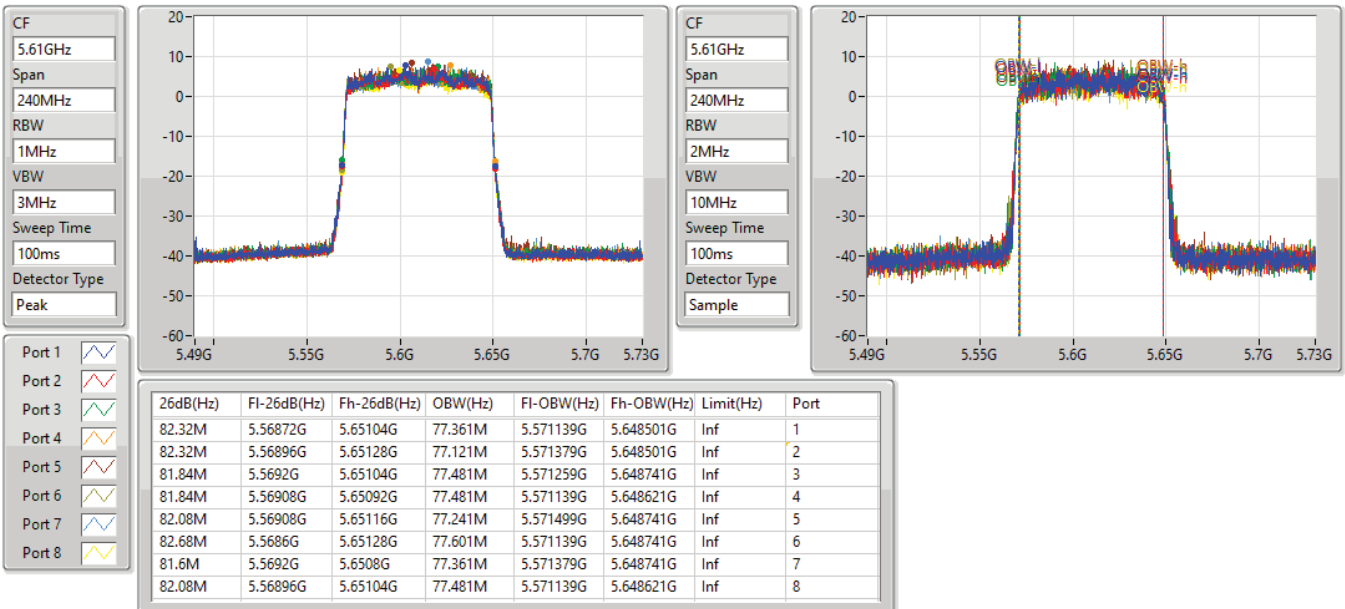


802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

5610MHz

08/06/2021

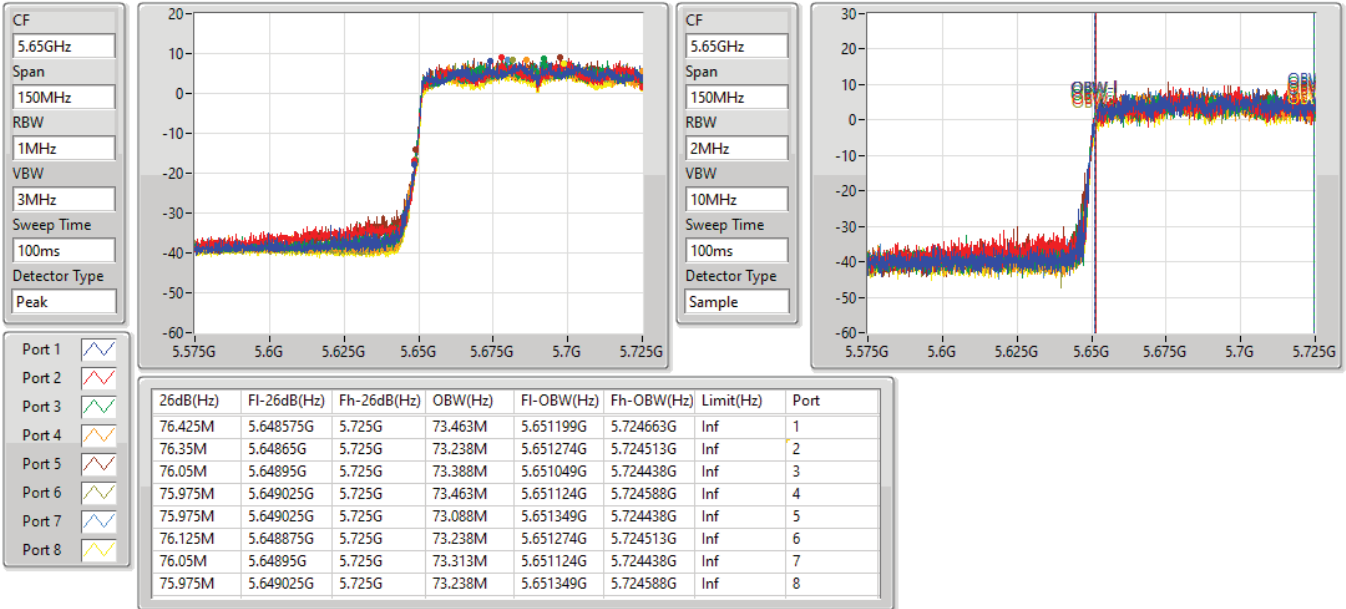


802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

5690MHz Straddle 5.47-5.725GHz

08/06/2021

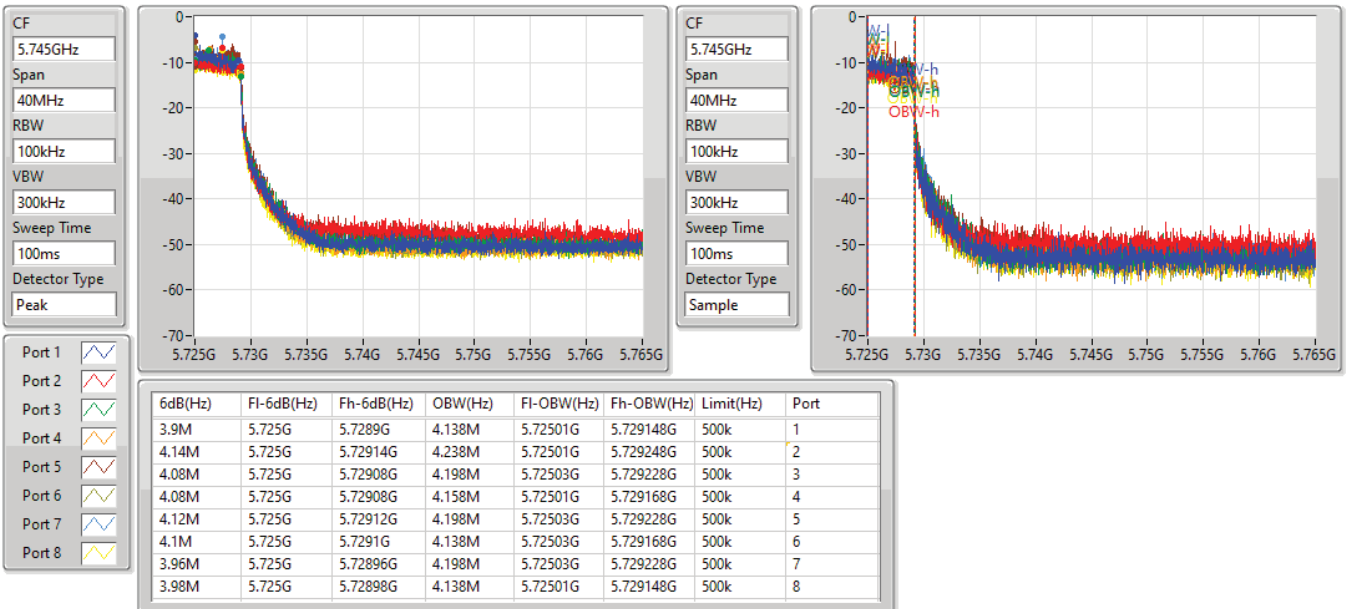


802.11ax HEW80_Nss1,(MCS0)_8TX

EBW

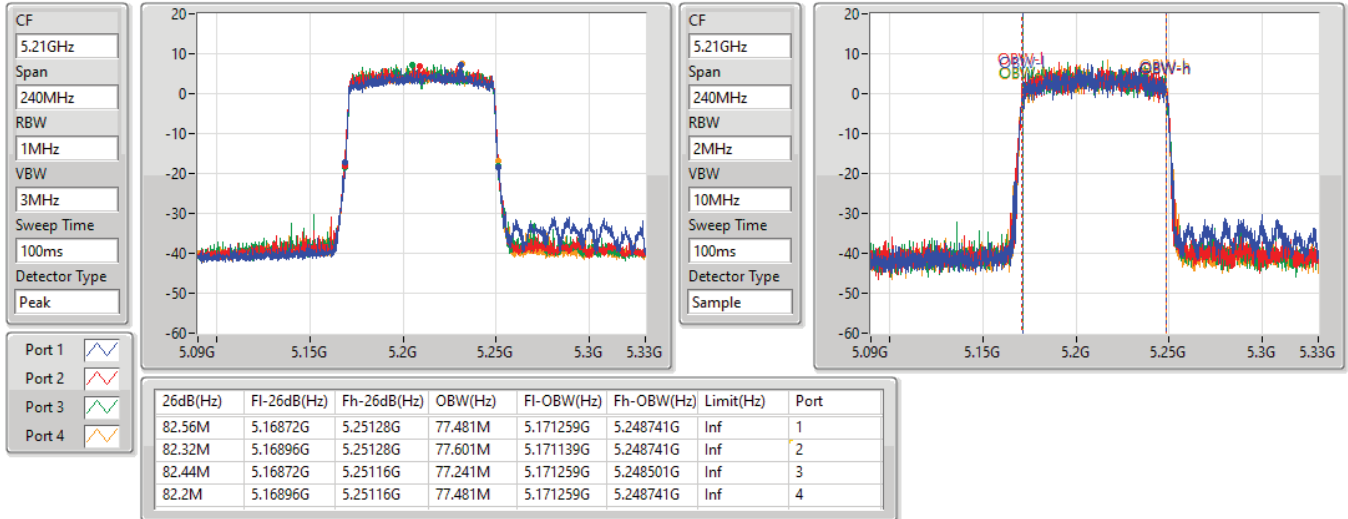
5690MHz Straddle 5.725-5.85GHz

08/06/2021

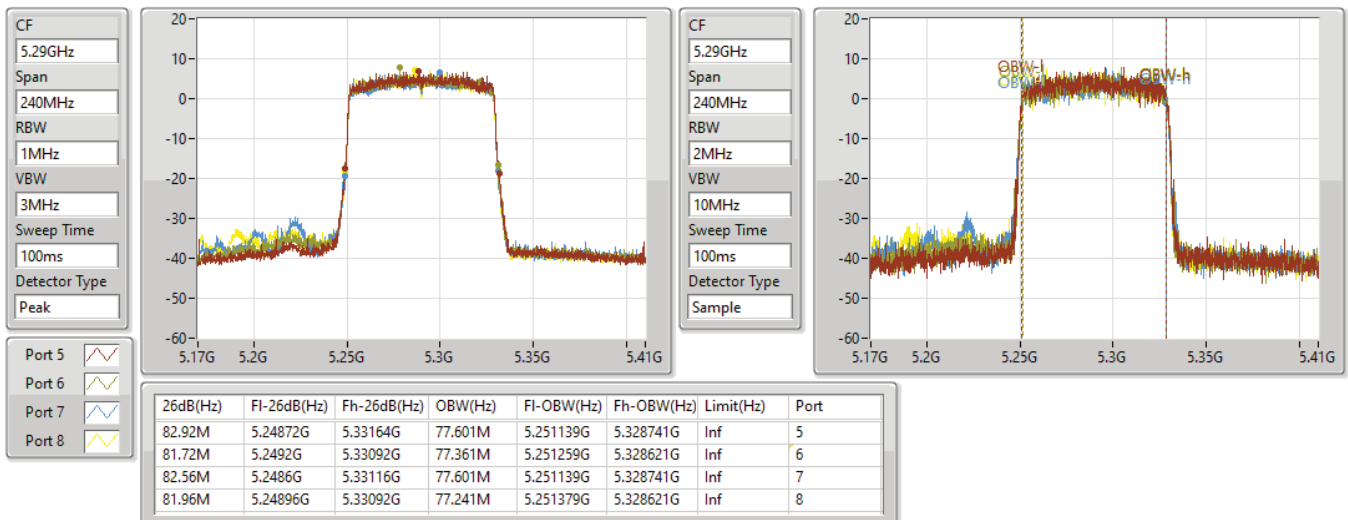


802.11ax HEW80+80_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)
EBW
#5210MHz,5290MHz

09/06/2021


802.11ax HEW80+80_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)
EBW
5210MHz,#5290MHz

09/06/2021



802.11ax HEW80+80_Nss1,(MCS0)_8TX

EBW

#5530MHz,#5610MHz

08/06/2021



**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)_1TX	37.05M	18.591M	18M6D1D	25.92M	16.882M
802.11n HT20_Nss1,(MCS0)_1TX	34.47M	18.891M	18M9D1D	26.64M	17.931M
802.11n HT40_Nss1,(MCS0)_1TX	49.02M	36.762M	36M8D1D	48.78M	36.642M
802.11ac VHT20_Nss1,(MCS0)_1TX	36.45M	19.25M	19M2D1D	25.89M	17.901M
802.11ac VHT40_Nss1,(MCS0)_1TX	51.3M	36.822M	36M8D1D	51.24M	36.762M
802.11ac VHT80_Nss1,(MCS0)_1TX	103.2M	76.642M	76M6D1D	103.2M	76.642M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	38.58M	19.49M	19M5D1D	21.195M	14.573M
802.11n HT20_Nss1,(MCS0)_1TX	31.86M	18.381M	18M4D1D	19.095M	14.213M
802.11n HT40_Nss1,(MCS0)_1TX	57.24M	37.061M	37M1D1D	42.035M	33.443M
802.11ac VHT20_Nss1,(MCS0)_1TX	35.61M	18.921M	18M9D1D	20.265M	14.588M
802.11ac VHT40_Nss1,(MCS0)_1TX	67.38M	37.421M	37M4D1D	42.875M	33.513M
802.11ac VHT80_Nss1,(MCS0)_1TX	102.48M	76.882M	76M9D1D	96.3M	73.313M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	3.14M	8.716M	8M72D1D	3.14M	8.716M
802.11n HT20_Nss1,(MCS0)_1TX	3.76M	6.437M	6M44D1D	3.76M	6.437M
802.11n HT40_Nss1,(MCS0)_1TX	3.14M	11.954M	12M0D1D	3.14M	11.954M
802.11ac VHT20_Nss1,(MCS0)_1TX	3.74M	7.516M	7M52D1D	3.74M	7.516M
802.11ac VHT40_Nss1,(MCS0)_1TX	3.14M	14.973M	15M0D1D	3.14M	14.973M
802.11ac VHT80_Nss1,(MCS0)_1TX	3.24M	29.605M	29M6D1D	3.24M	29.605M

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

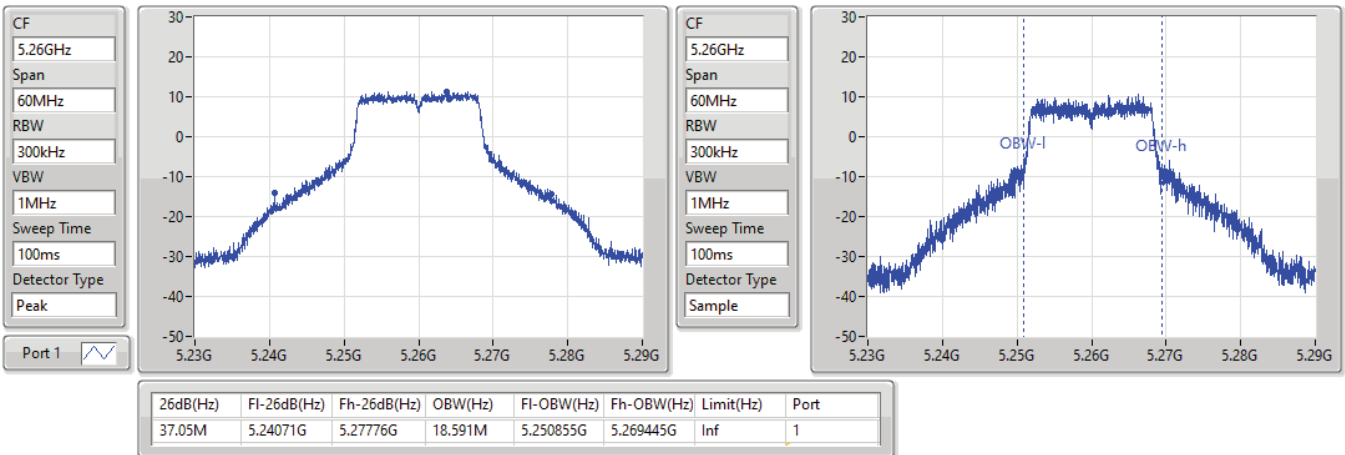
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5260MHz	Pass	Inf	37.05M	18.591M
5300MHz	Pass	Inf	34.71M	18.141M
5320MHz	Pass	Inf	25.92M	16.882M
5500MHz	Pass	Inf	25.32M	16.822M
5580MHz	Pass	Inf	38.58M	19.49M
5700MHz	Pass	Inf	25.53M	16.792M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	21.195M	14.573M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	8.716M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	34.47M	18.891M
5300MHz	Pass	Inf	32.37M	18.411M
5320MHz	Pass	Inf	26.64M	17.931M
5500MHz	Pass	Inf	25.26M	17.961M
5580MHz	Pass	Inf	31.86M	18.381M
5700MHz	Pass	Inf	25.98M	17.931M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	19.095M	14.213M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	6.437M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	48.78M	36.642M
5310MHz	Pass	Inf	49.02M	36.762M
5510MHz	Pass	Inf	48.84M	36.702M
5550MHz	Pass	Inf	57.24M	37.061M
5670MHz	Pass	Inf	49.56M	36.822M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	42.035M	33.443M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	11.954M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5260MHz	Pass	Inf	36.45M	19.25M
5300MHz	Pass	Inf	35.61M	18.801M
5320MHz	Pass	Inf	25.89M	17.901M
5500MHz	Pass	Inf	25.71M	17.961M
5580MHz	Pass	Inf	35.61M	18.921M
5700MHz	Pass	Inf	26.34M	17.961M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	20.265M	14.588M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	7.516M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5270MHz	Pass	Inf	51.3M	36.762M
5310MHz	Pass	Inf	51.24M	36.822M
5510MHz	Pass	Inf	49.2M	36.702M
5550MHz	Pass	Inf	67.38M	37.421M
5670MHz	Pass	Inf	52.02M	36.822M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	42.875M	33.513M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	14.973M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5290MHz	Pass	Inf	103.2M	76.642M
5530MHz	Pass	Inf	98.88M	76.402M
5610MHz	Pass	Inf	102.48M	76.882M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	96.3M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.24M	29.605M

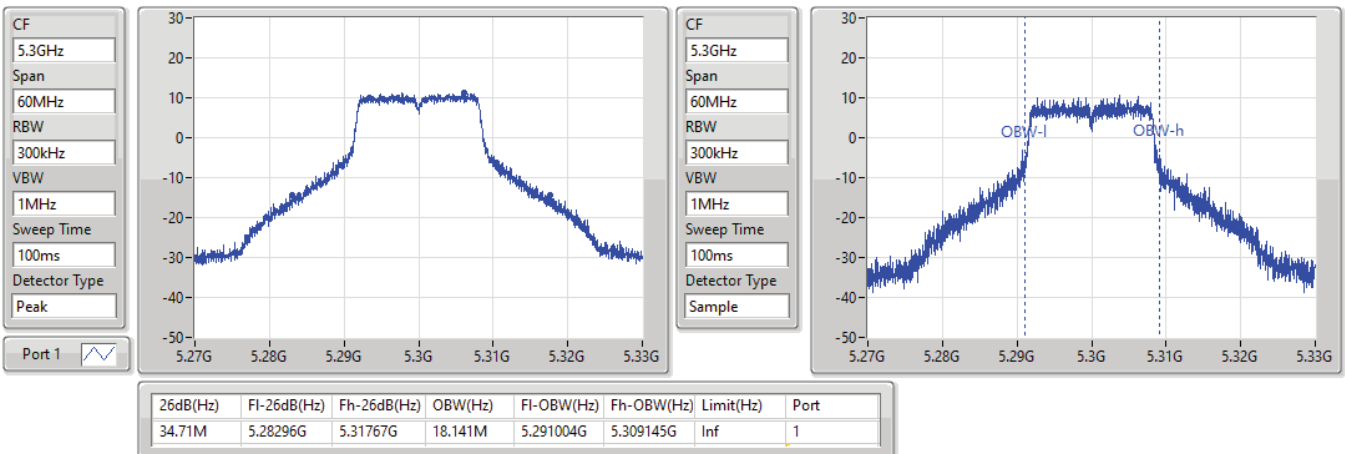
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

01/07/2021

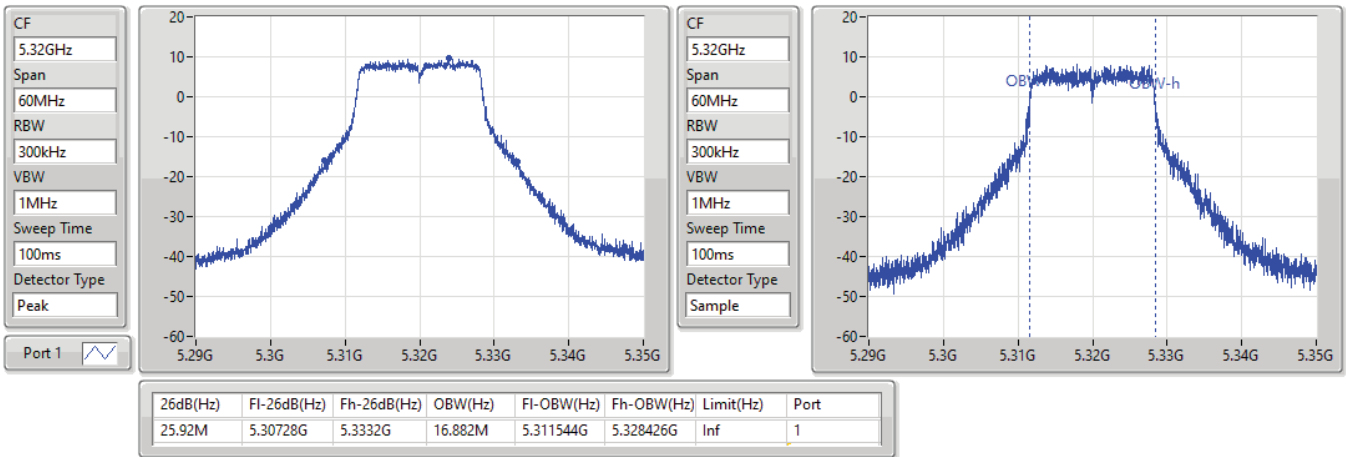

802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

01/07/2021

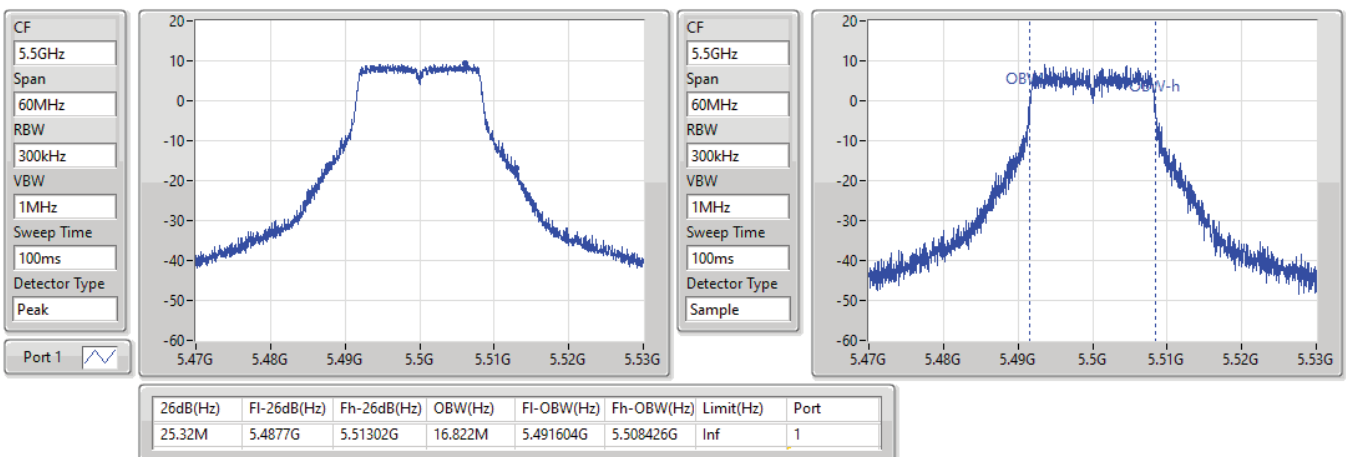


802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

01/07/2021

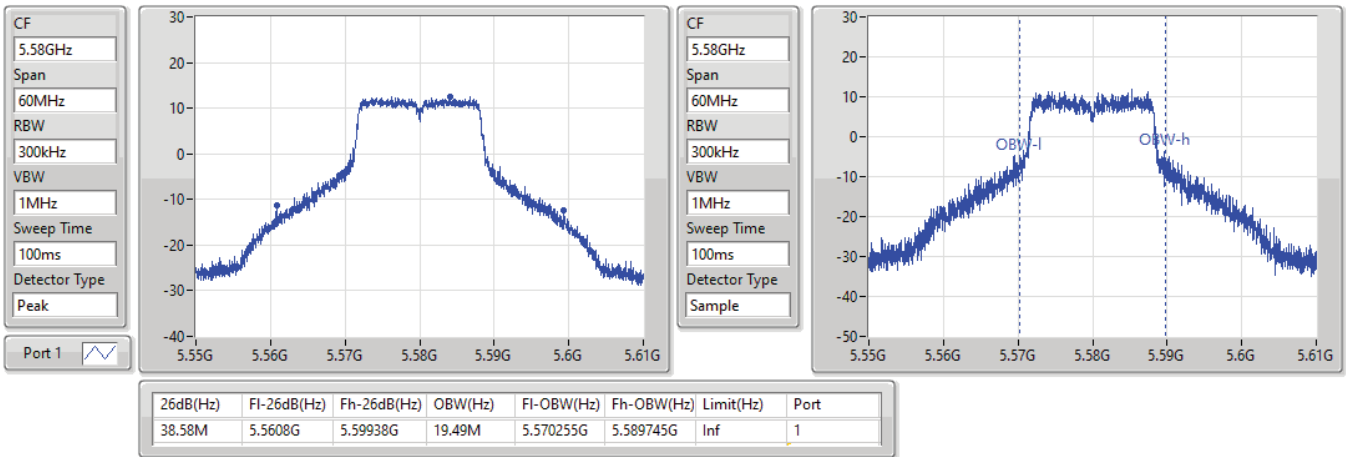

802.11a_Nss1,(6Mbps)_1TX
EBW
5500MHz

01/07/2021

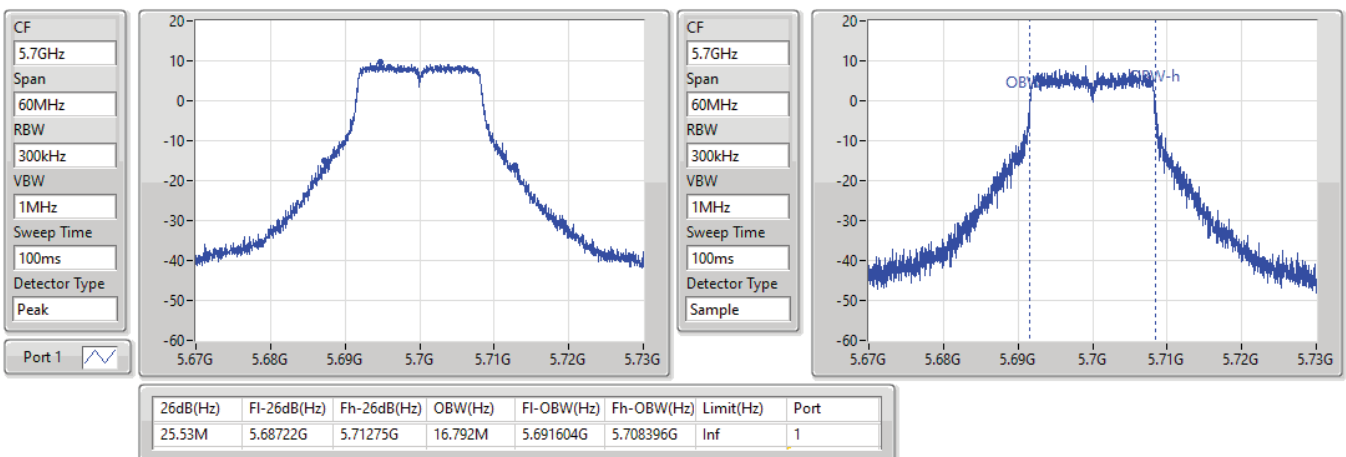


802.11a_Nss1,(6Mbps)_1TX
EBW
5580MHz

01/07/2021

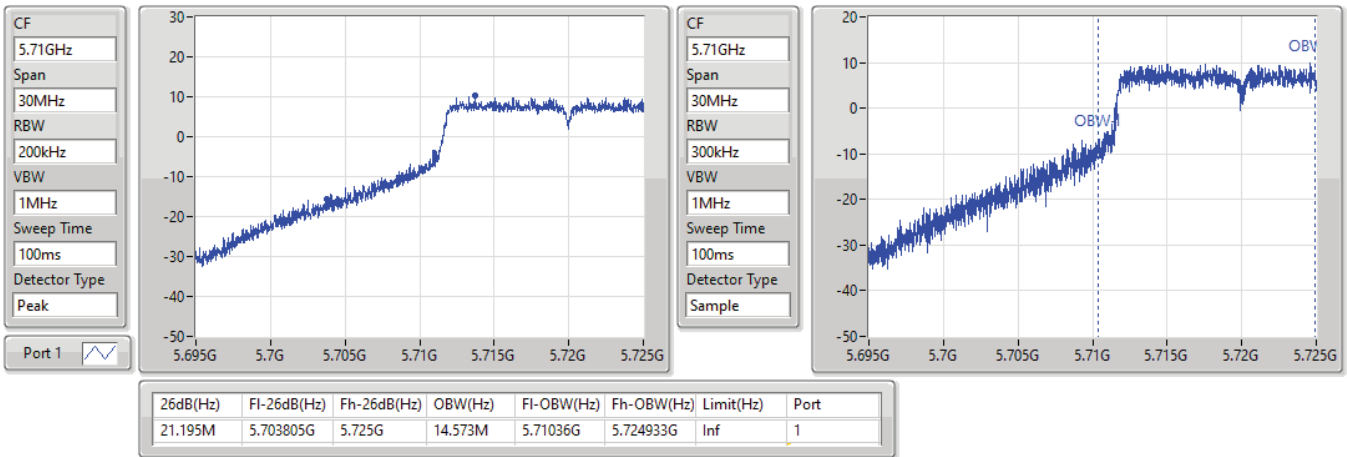

802.11a_Nss1,(6Mbps)_1TX
EBW
5700MHz

01/07/2021

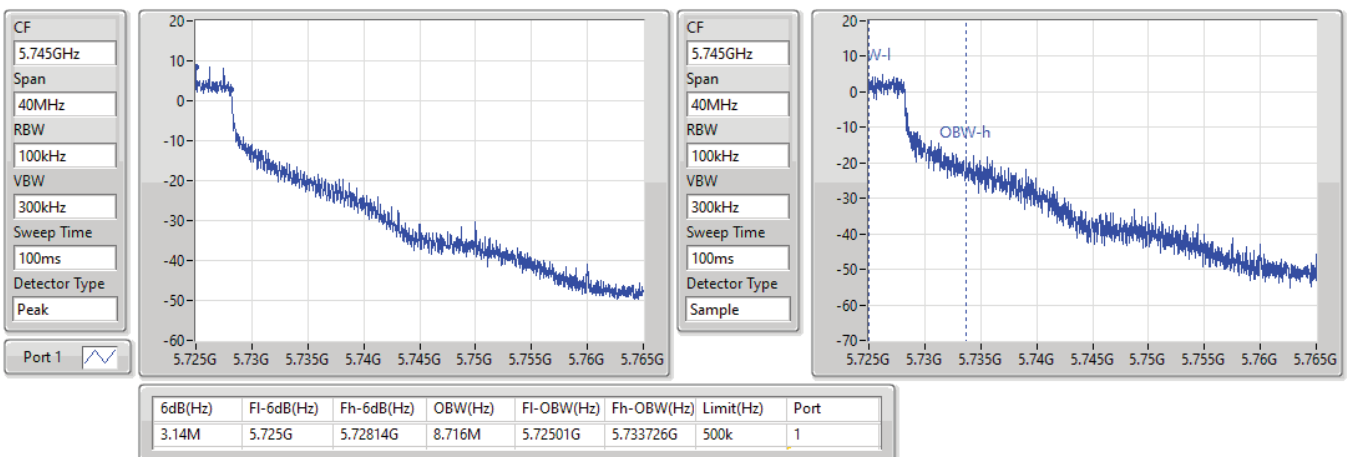


802.11a_Nss1,(6Mbps)_1TX
EBW
5720MHz Straddle 5.67-5.725GHz

01/07/2021


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

01/07/2021

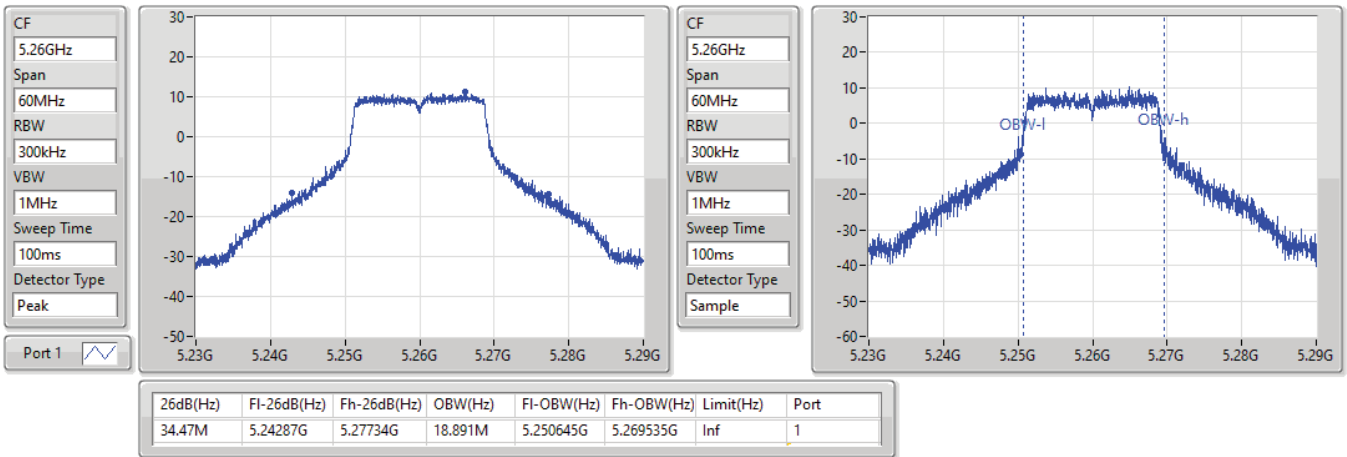


802.11n HT20_Nss1,(MCS0)_1TX

EBW

5260MHz

01/07/2021

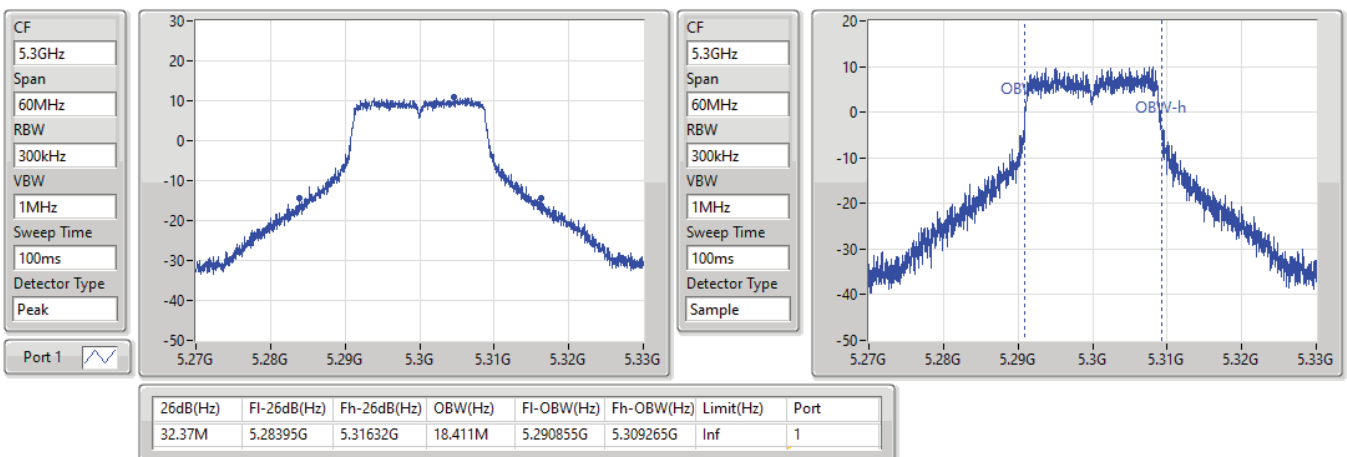


802.11n HT20_Nss1,(MCS0)_1TX

EBW

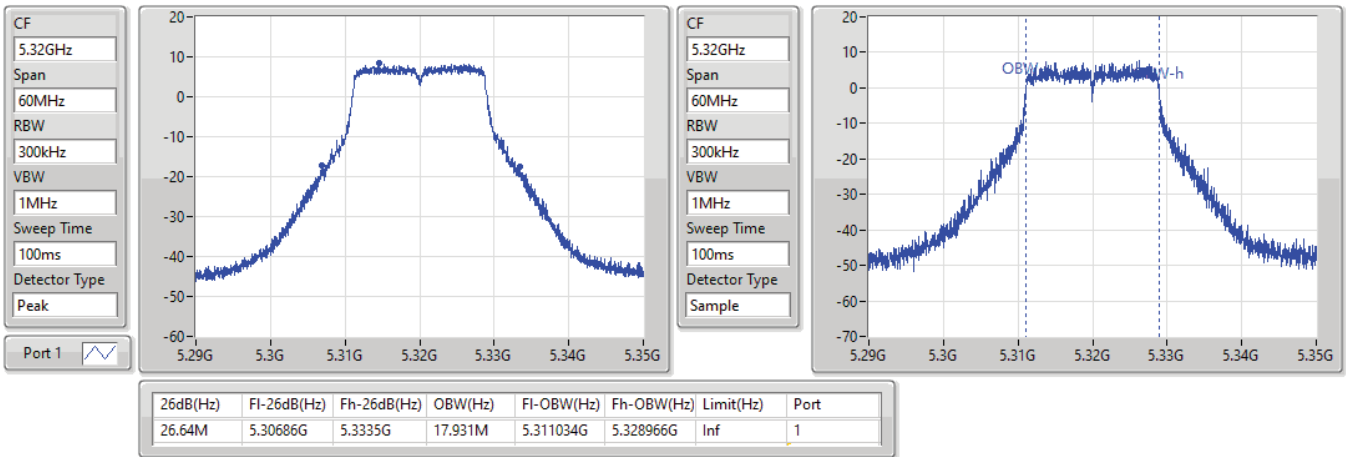
5300MHz

01/07/2021

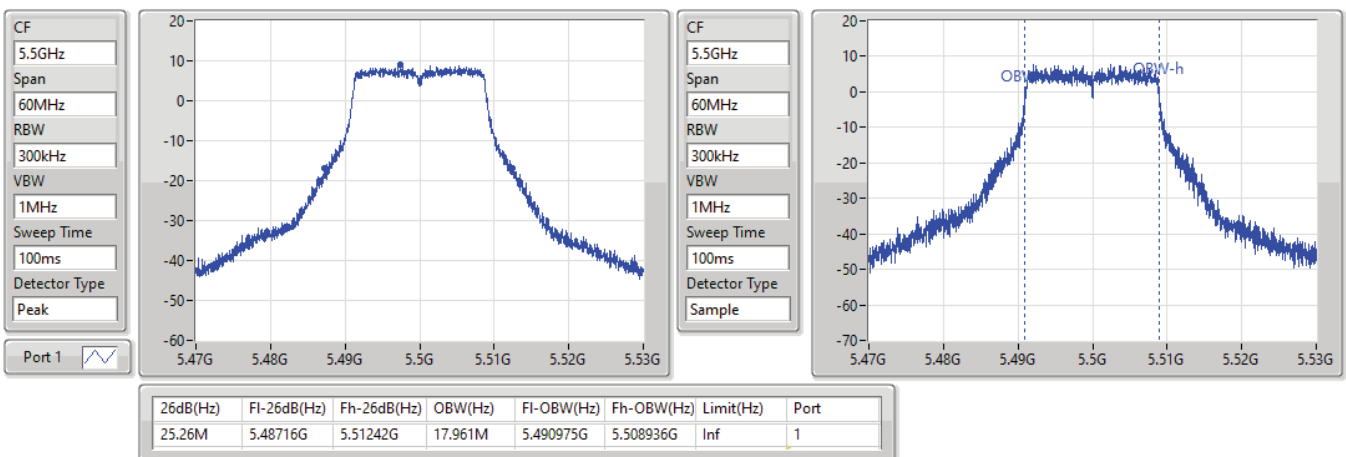


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5320MHz

01/07/2021

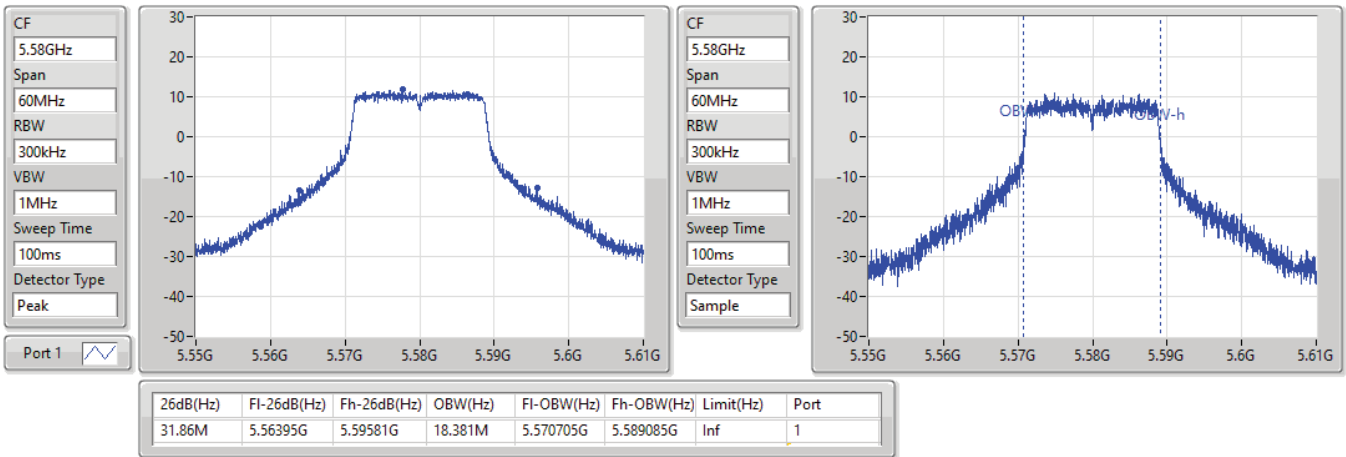

802.11n HT20_Nss1,(MCS0)_1TX
EBW
5500MHz

01/07/2021

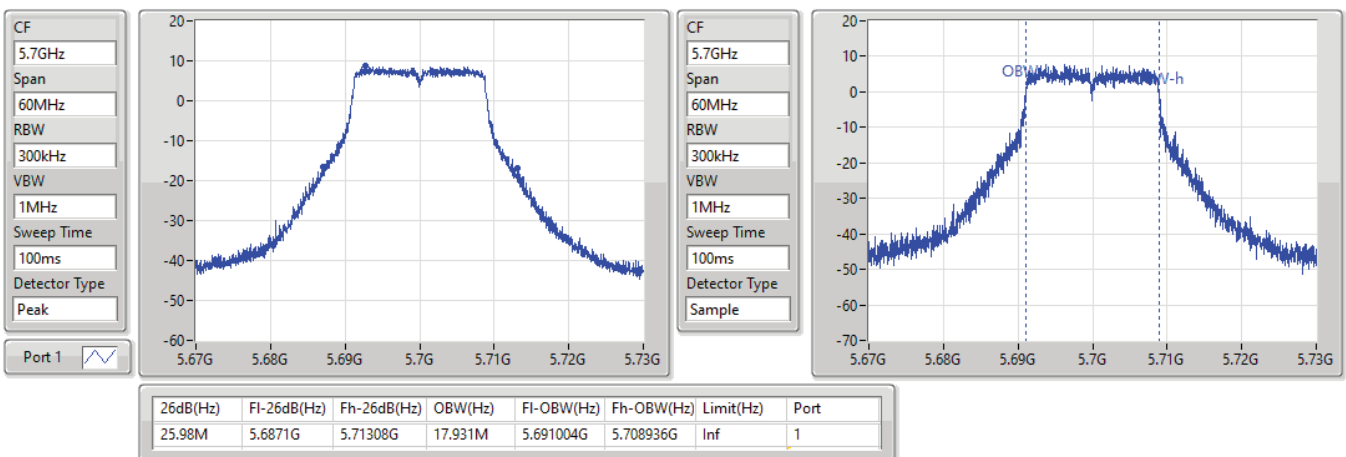


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5580MHz

01/07/2021


802.11n HT20_Nss1,(MCS0)_1TX
EBW
5700MHz

01/07/2021

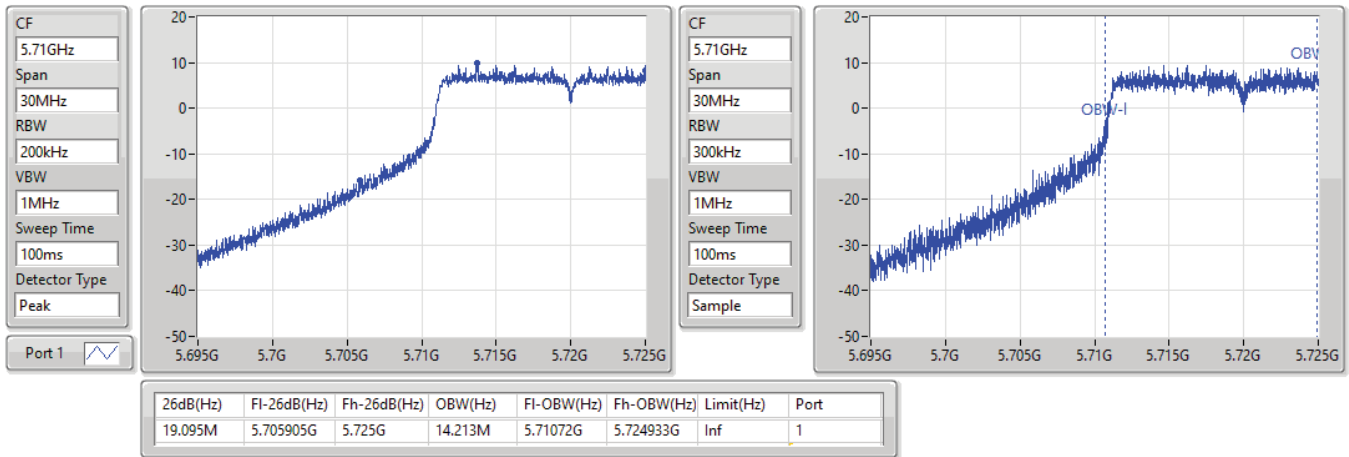


802.11n HT20_Nss1,(MCS0)_1TX

EBW

5720MHz Straddle 5.47-5.725GHz

01/07/2021

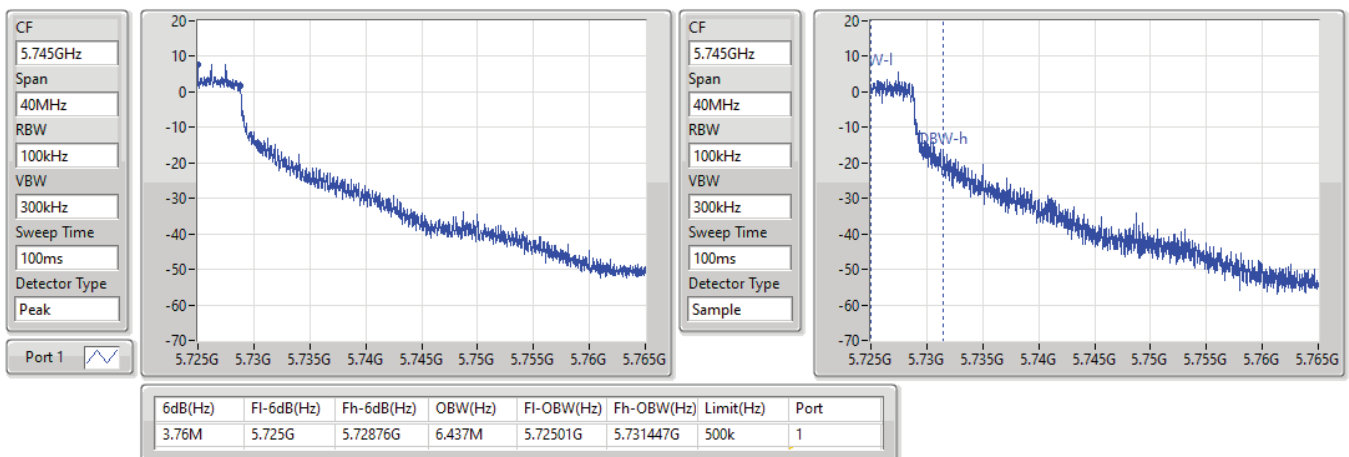


802.11n HT20_Nss1,(MCS0)_1TX

EBW

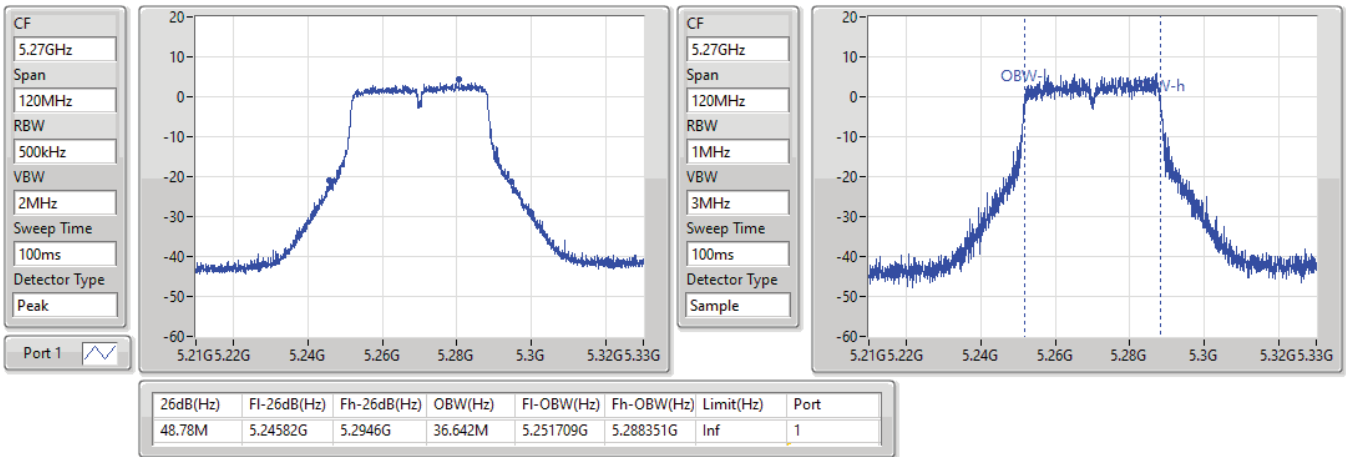
5720MHz Straddle 5.725-5.85GHz

01/07/2021

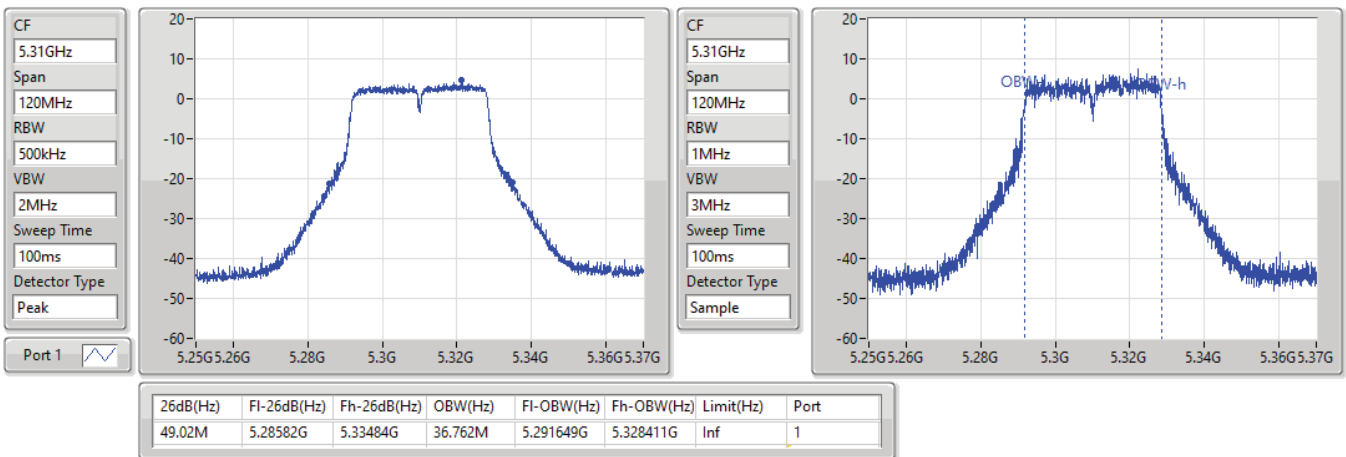


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5270MHz

01/07/2021

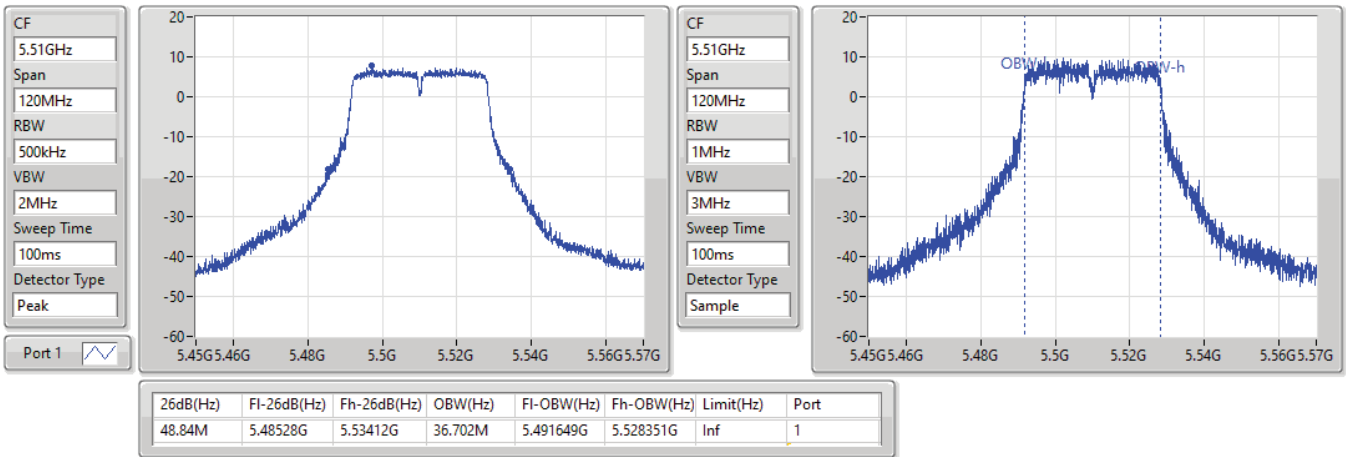

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5310MHz

01/07/2021

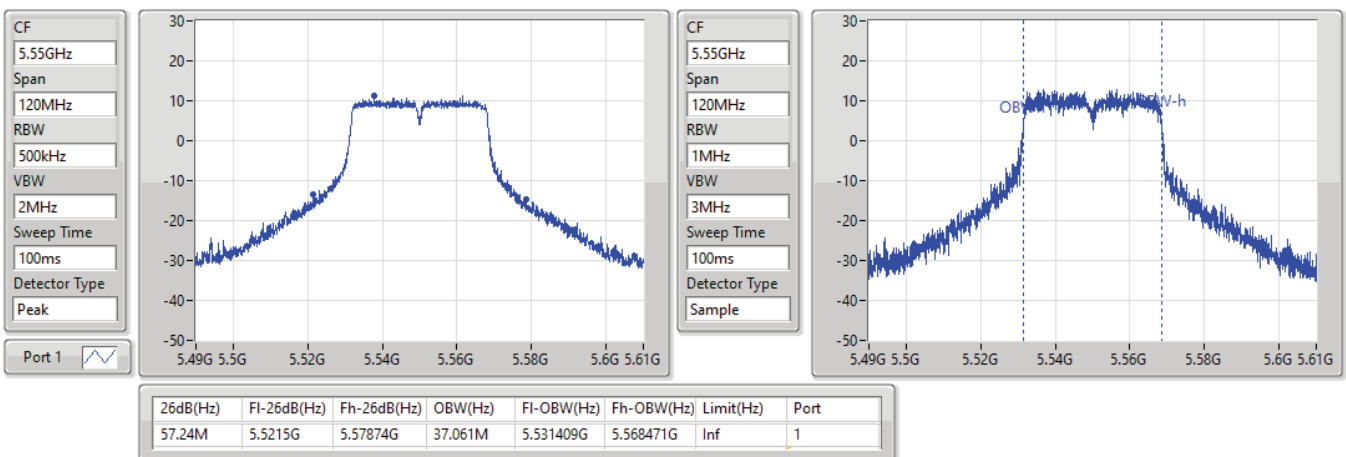


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5510MHz

01/07/2021

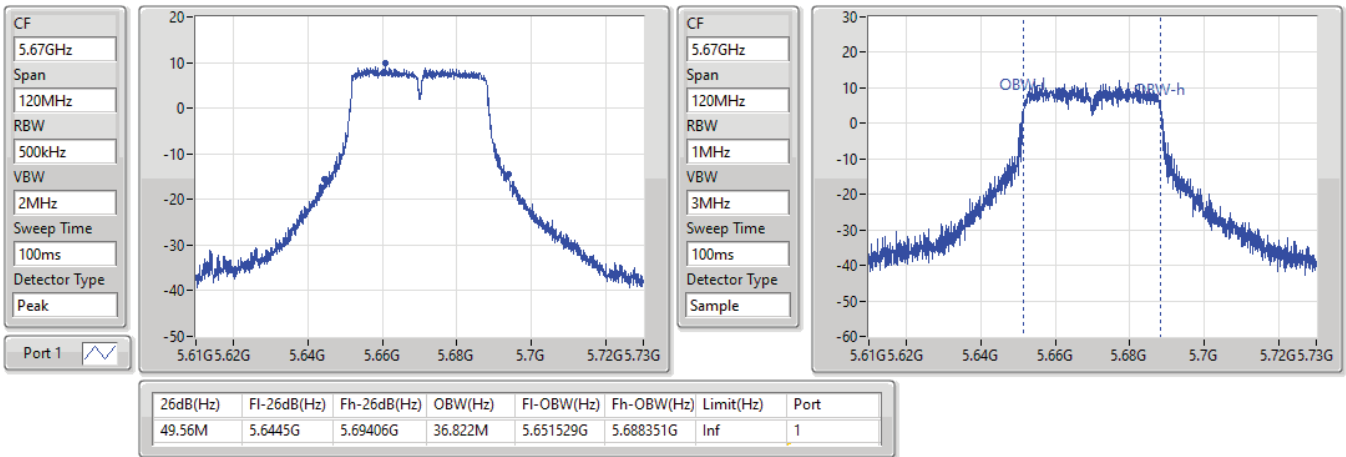

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5550MHz

01/07/2021

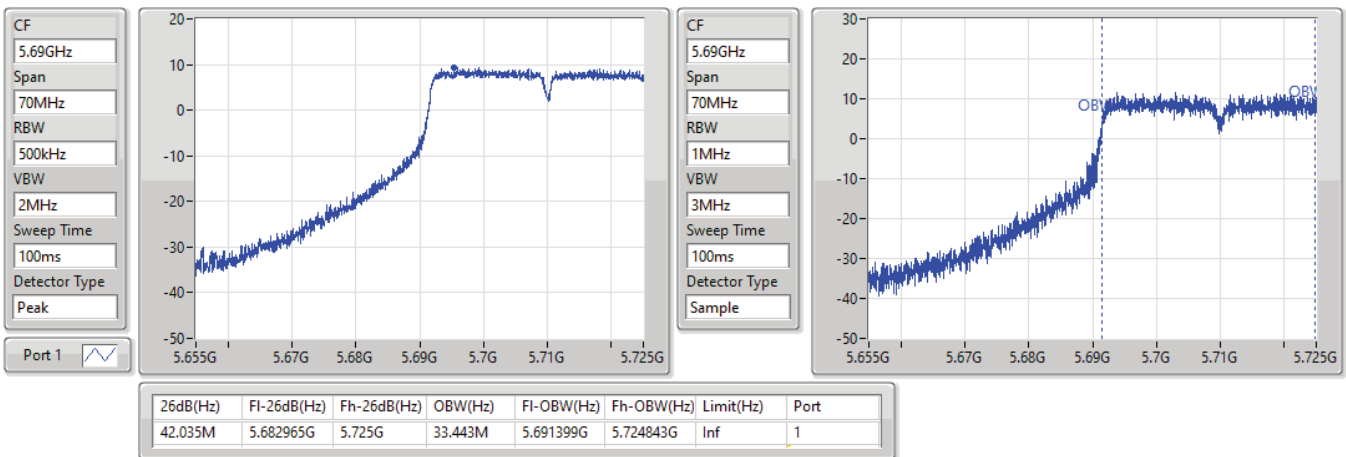


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5670MHz

01/07/2021

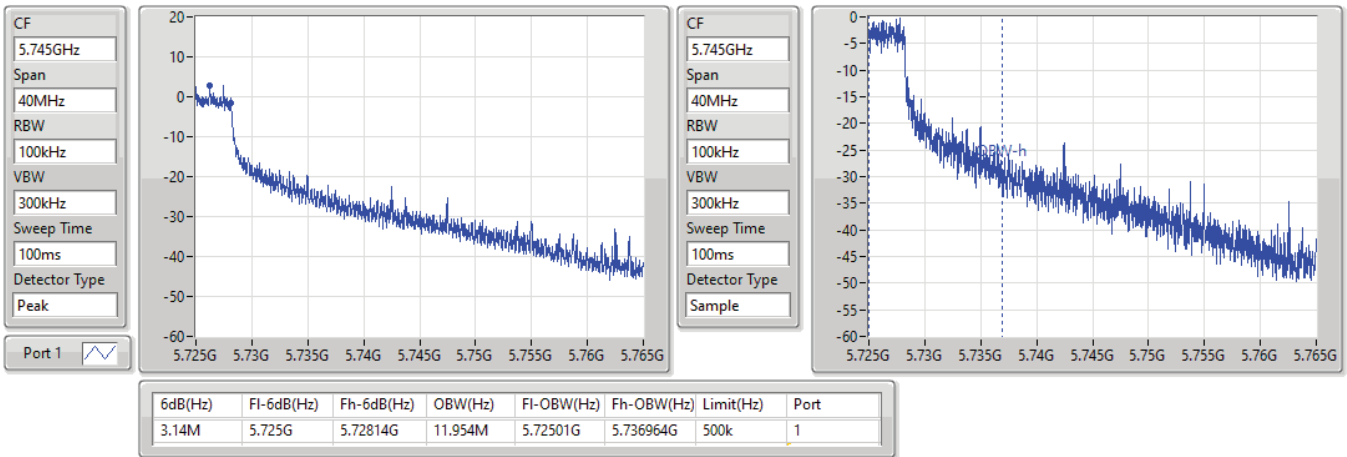

802.11n HT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.47-5.725GHz

01/07/2021

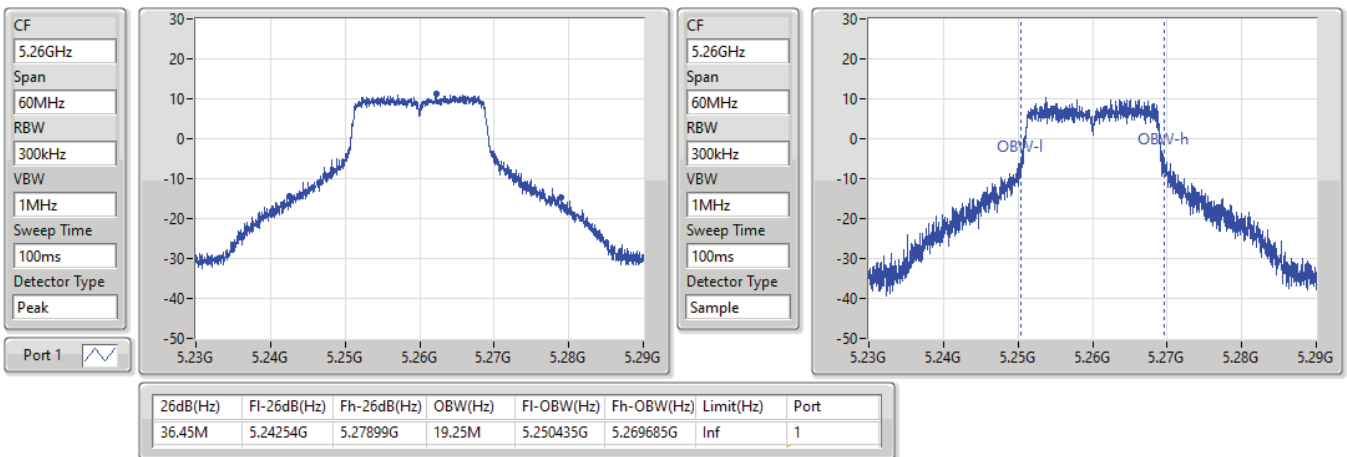


802.11n HT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

01/07/2021

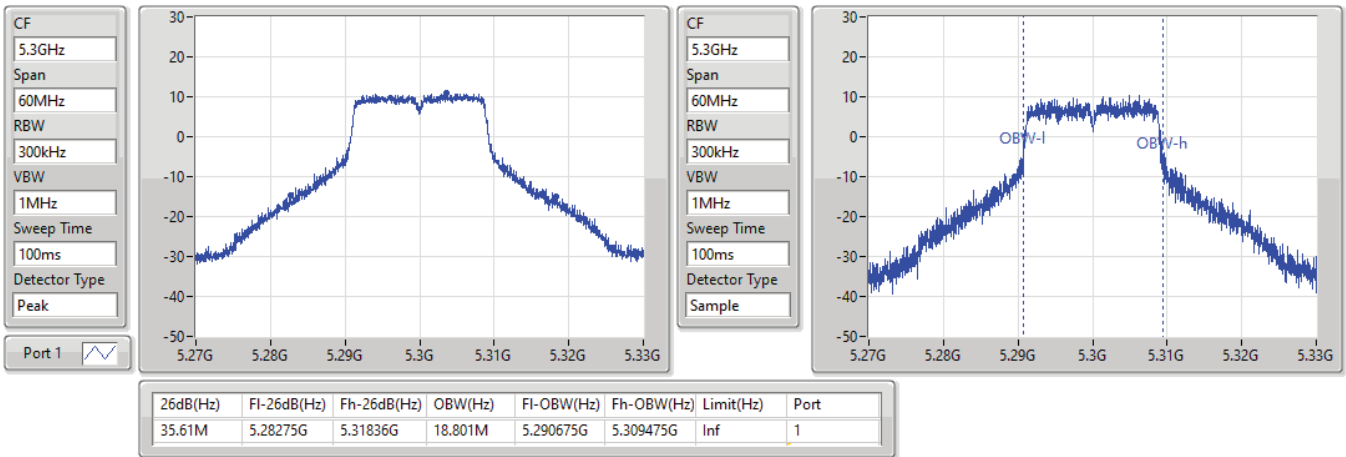

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5260MHz

01/07/2021

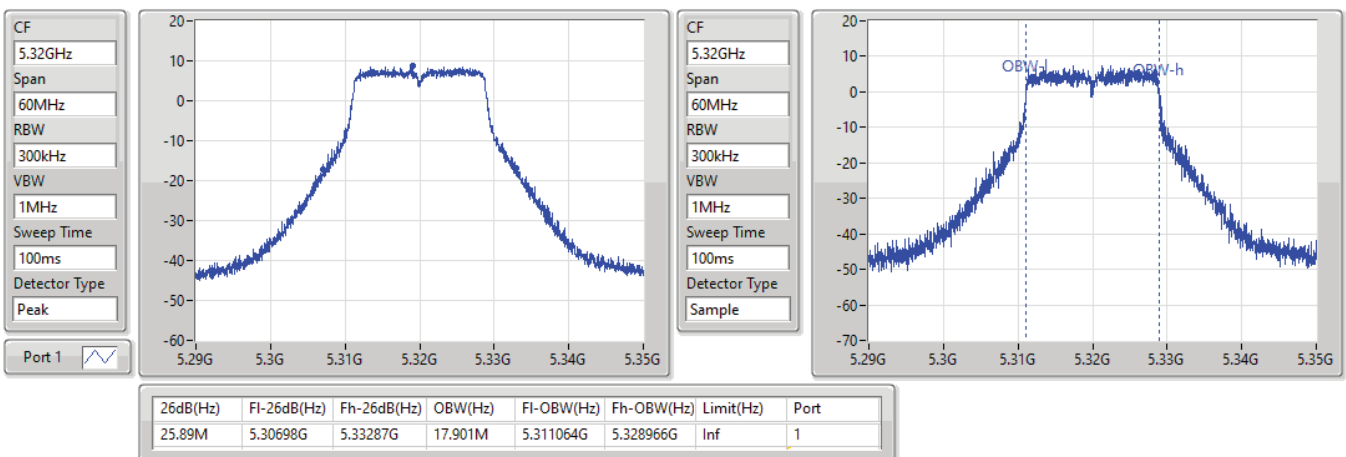


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5300MHz

01/07/2021

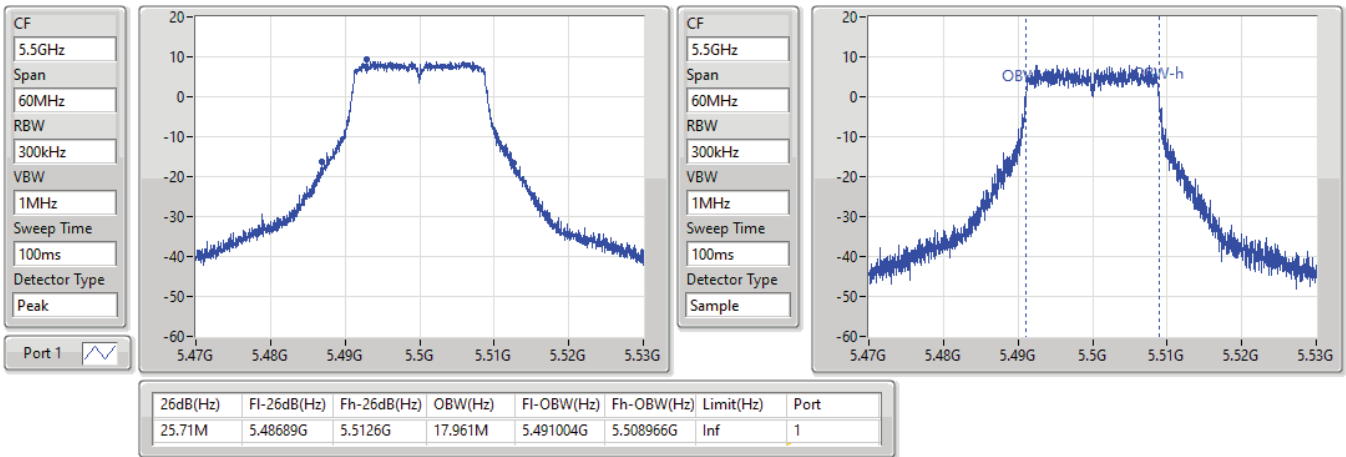

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5320MHz

01/07/2021

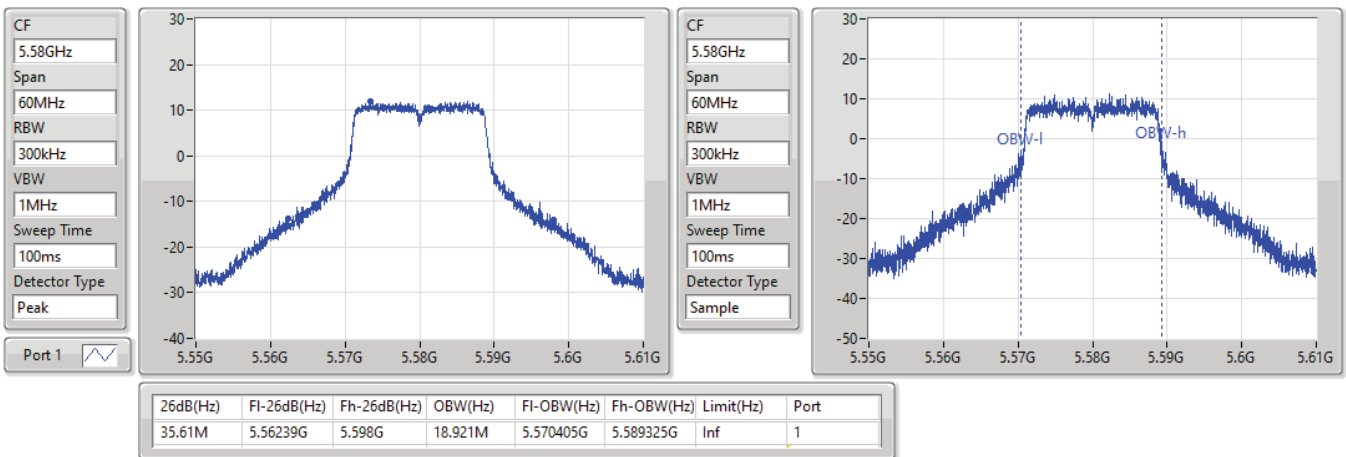


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5500MHz

01/07/2021

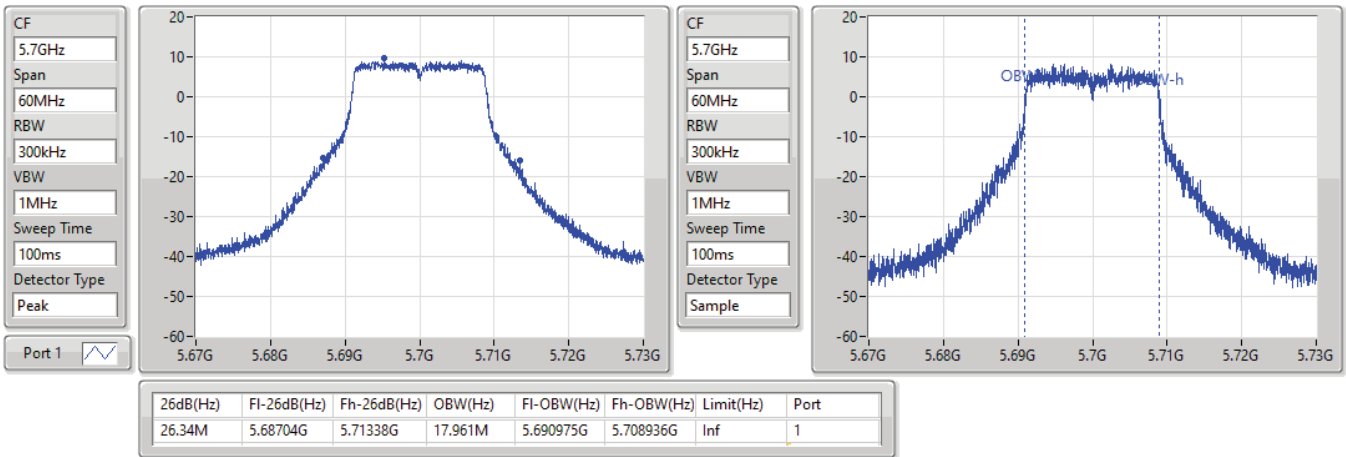

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5580MHz

01/07/2021

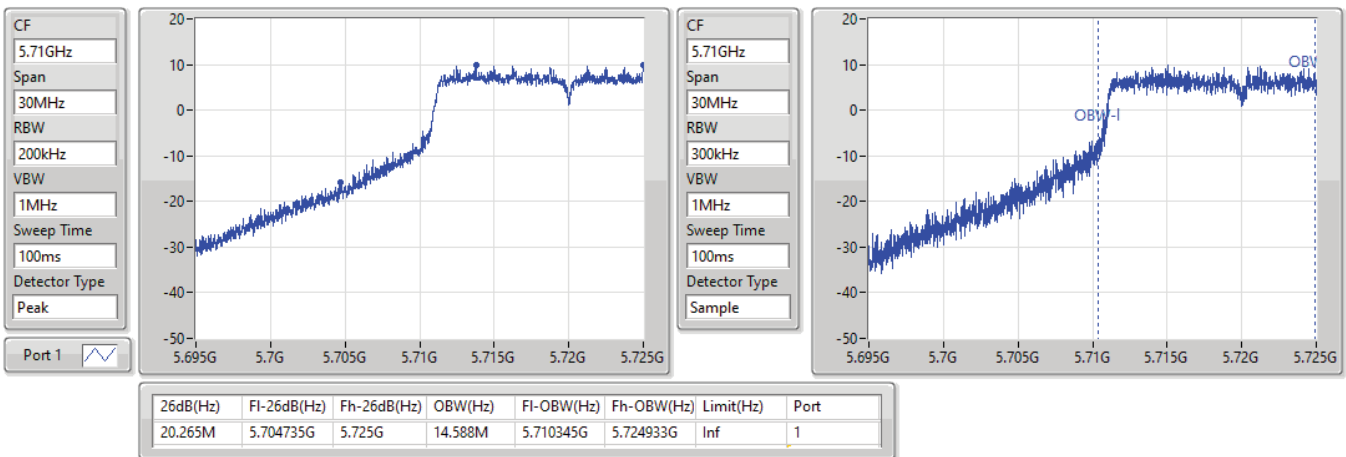


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5700MHz

01/07/2021

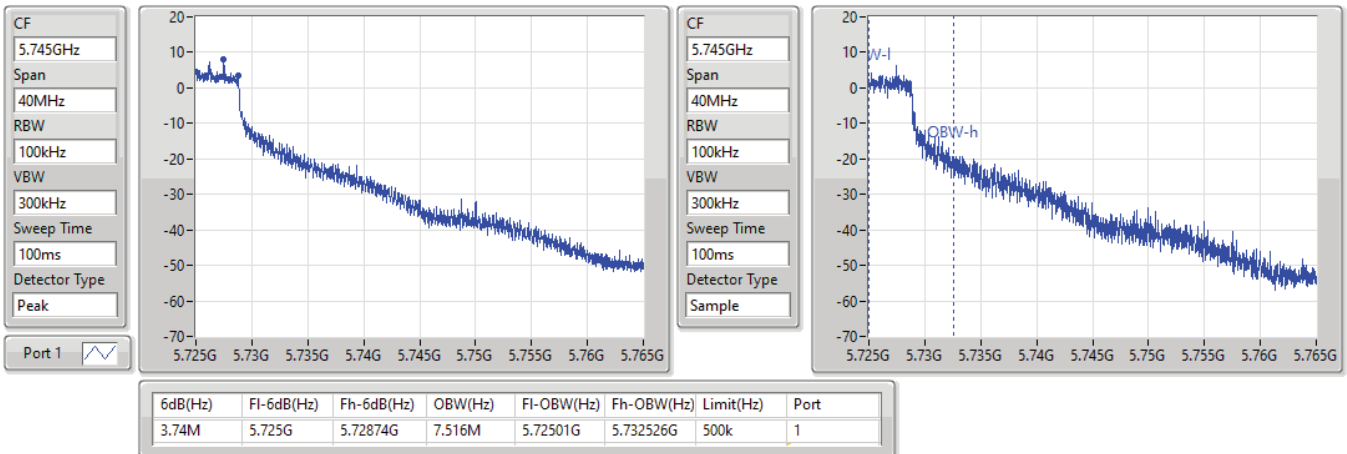

802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.47-5.725GHz

01/07/2021

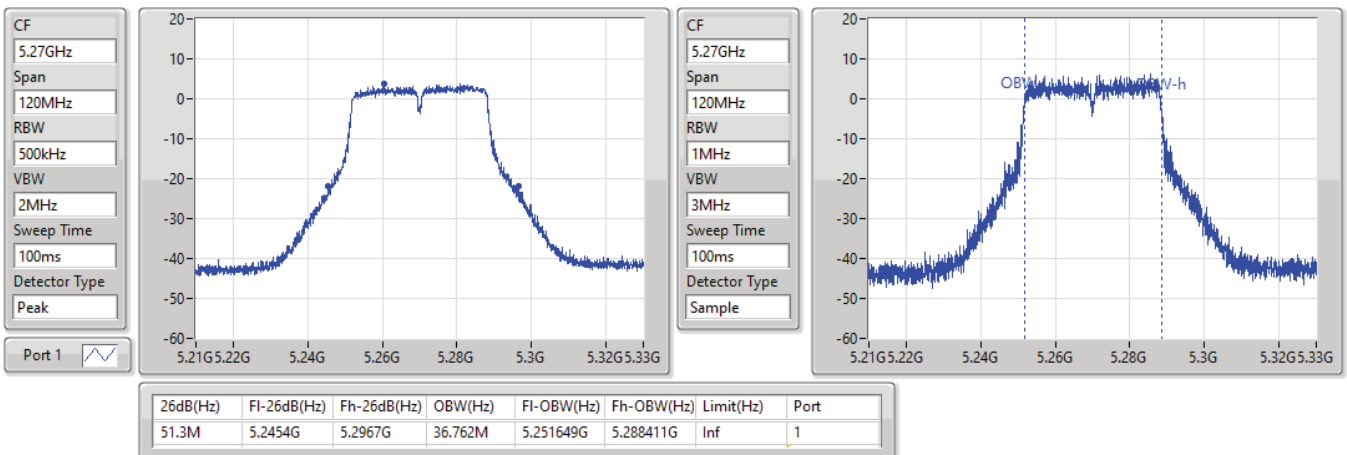


802.11ac VHT20_Nss1,(MCS0)_1TX
EBW
5720MHz Straddle 5.725-5.85GHz

01/07/2021


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5270MHz

01/07/2021

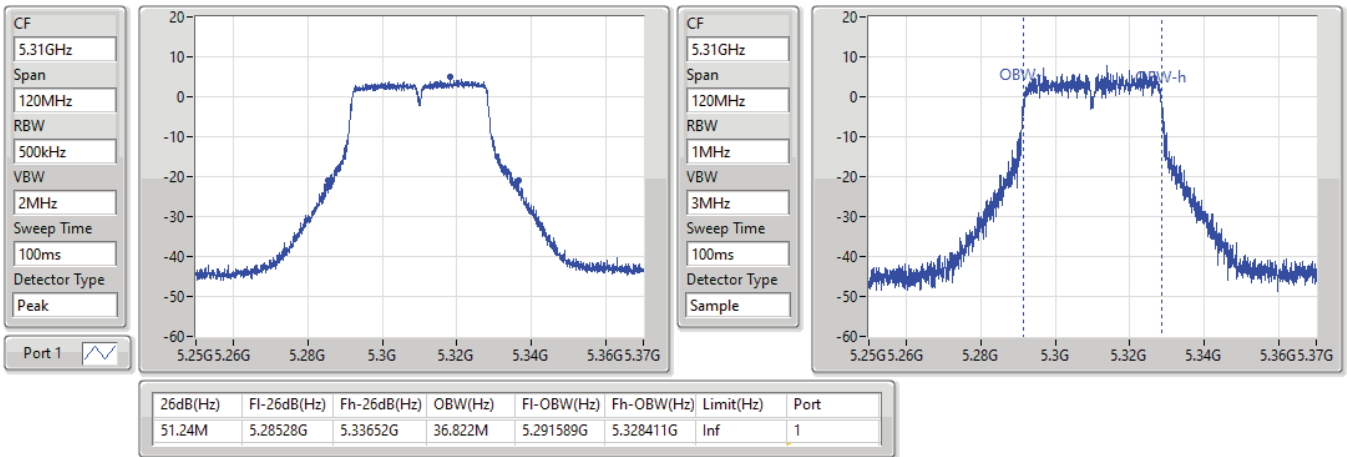


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5310MHz

01/07/2021

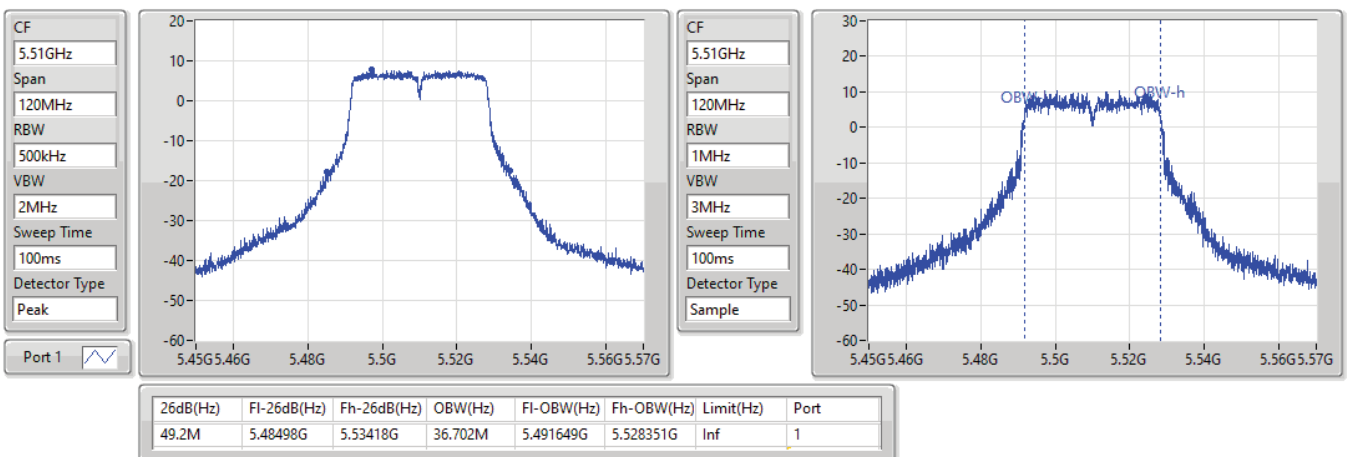


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

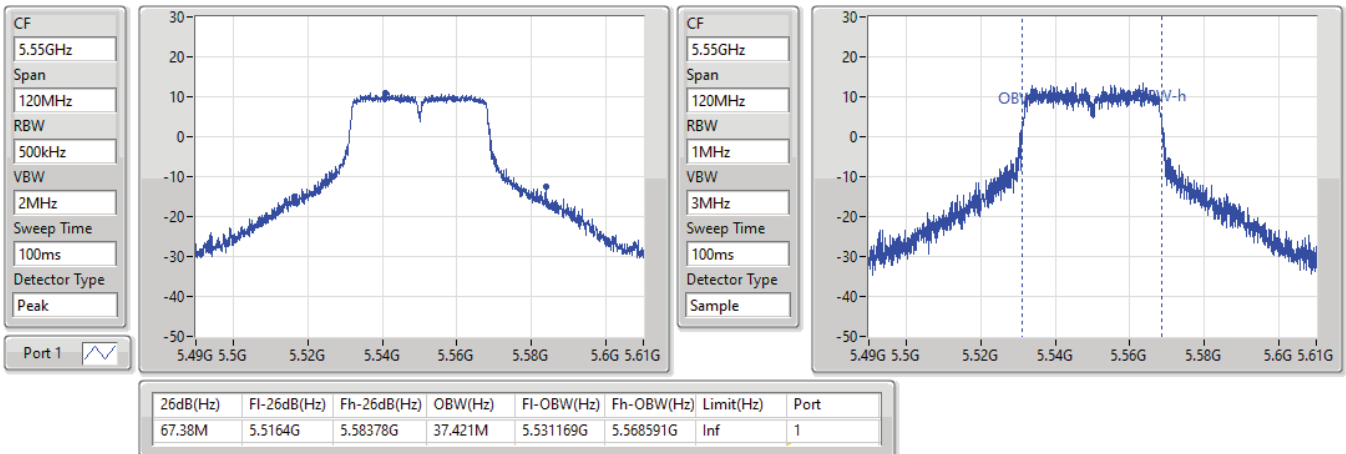
5510MHz

01/07/2021

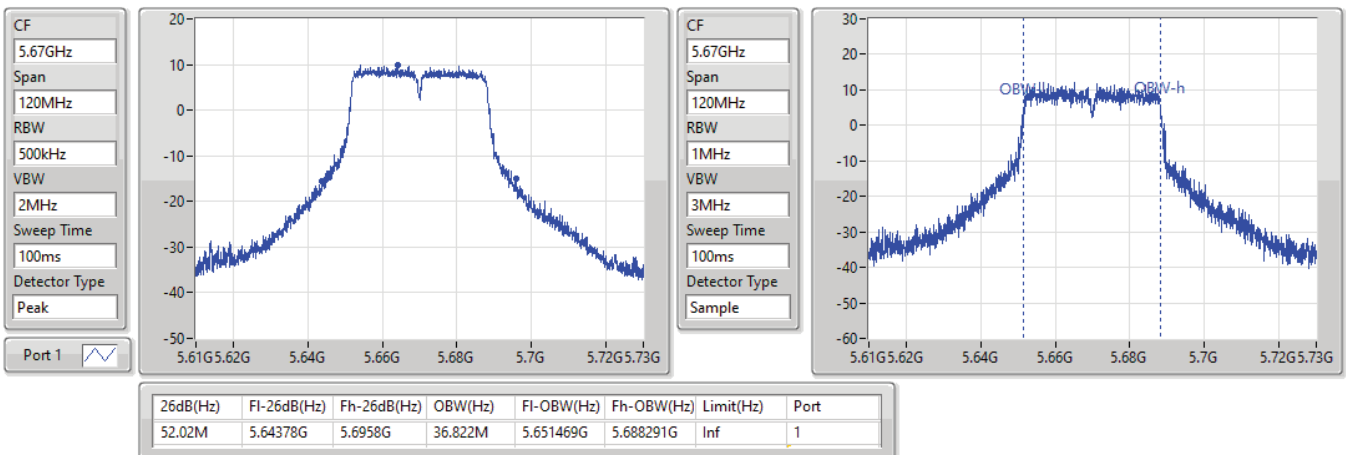


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5550MHz

01/07/2021

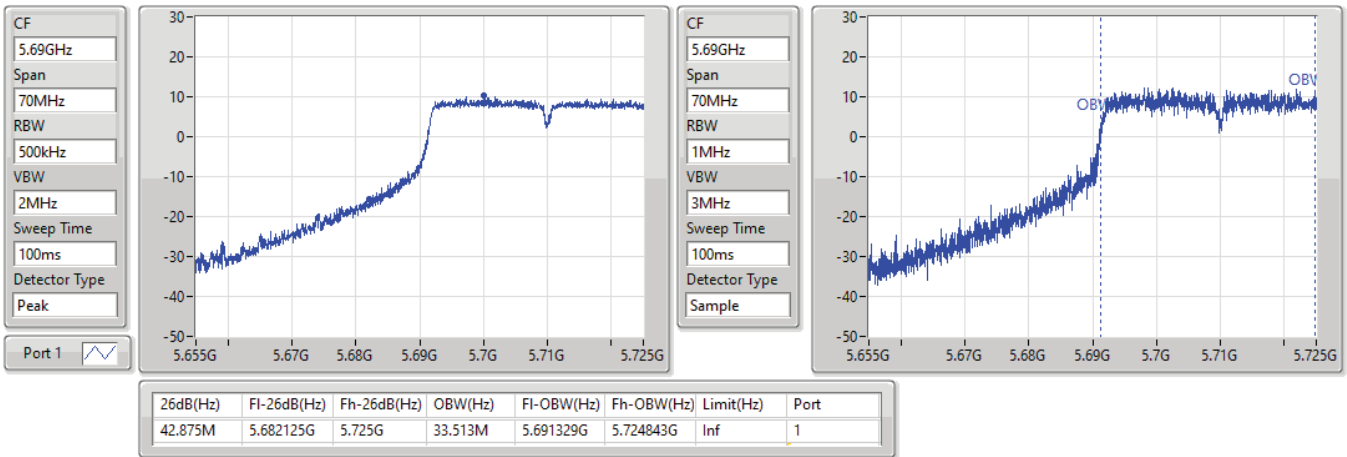

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5670MHz

01/07/2021

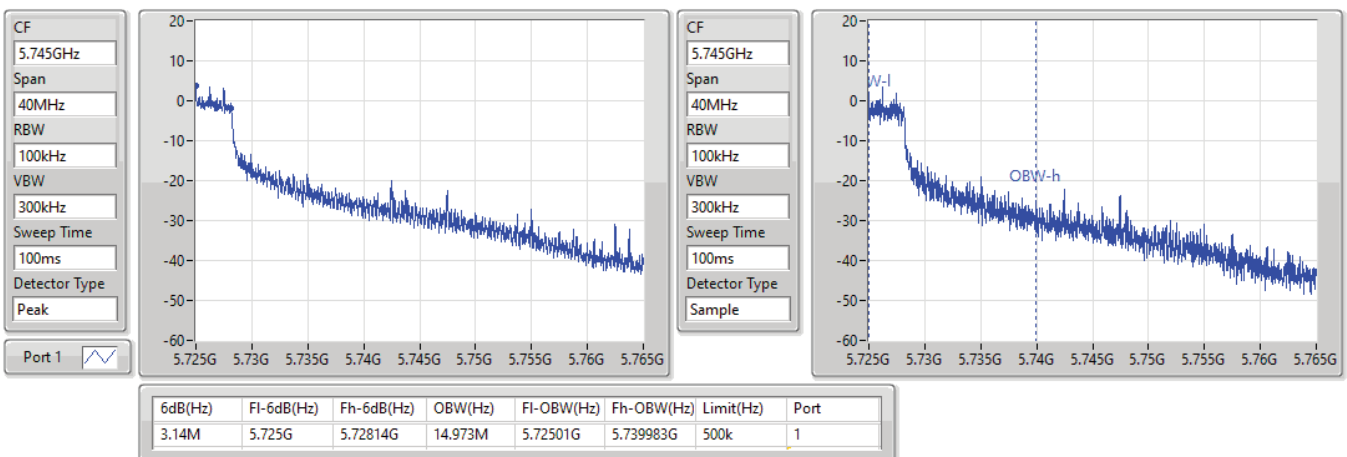


802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.67-5.725GHz

01/07/2021

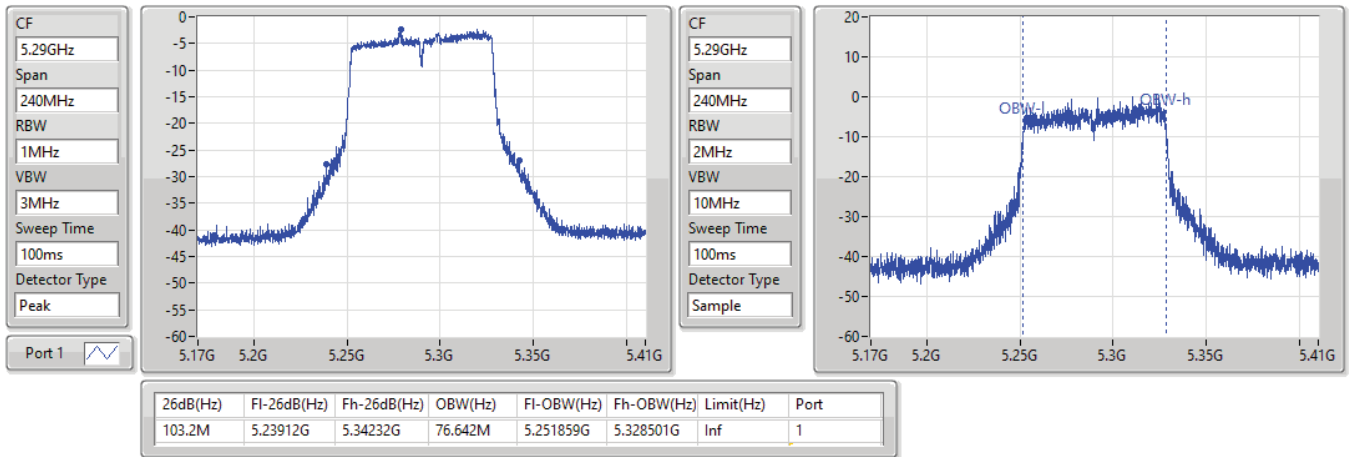

802.11ac VHT40_Nss1,(MCS0)_1TX
EBW
5710MHz Straddle 5.725-5.85GHz

01/07/2021

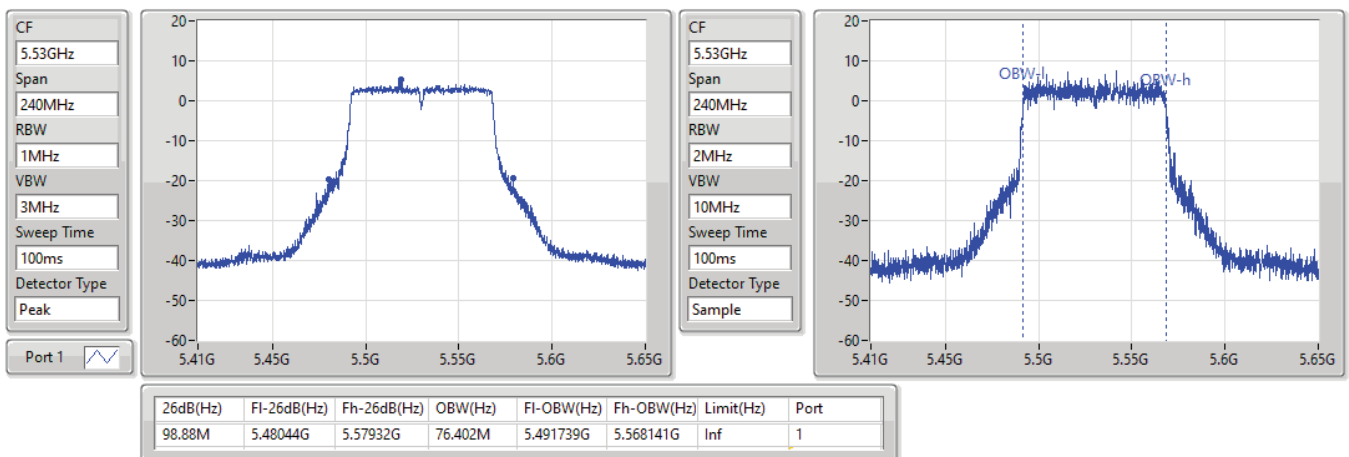


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5290MHz

01/07/2021

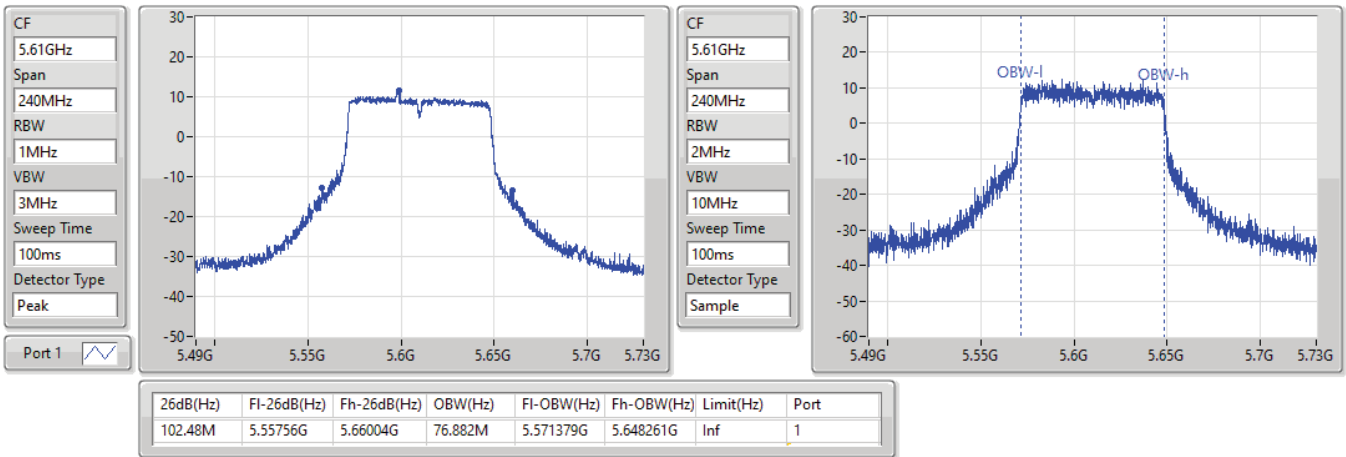

802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5530MHz

01/07/2021

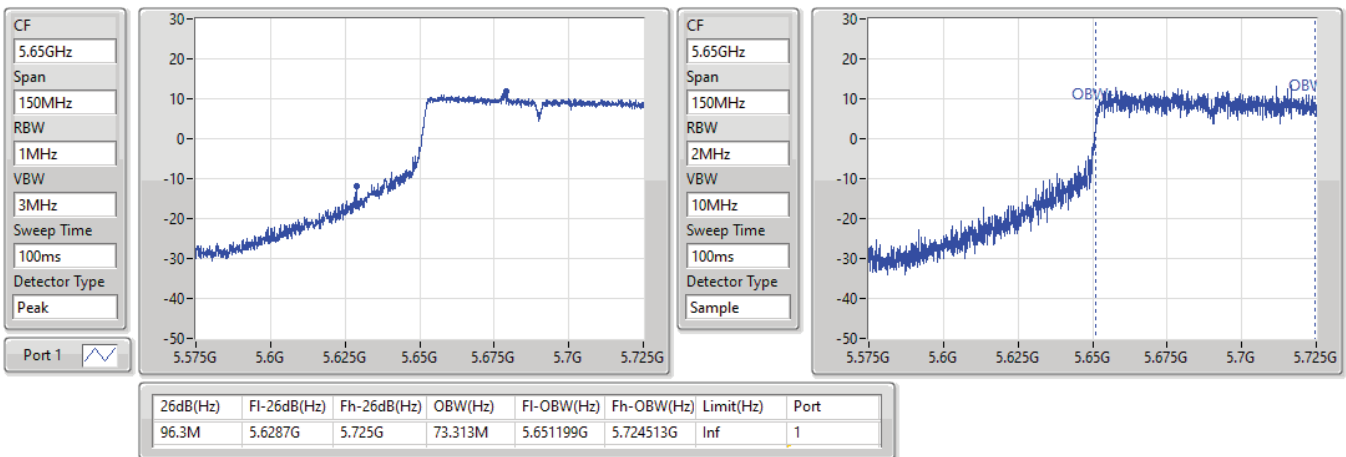


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5610MHz

01/07/2021


802.11ac VHT80_Nss1,(MCS0)_1TX
EBW
5690MHz Straddle 5.47-5.725GHz

01/07/2021

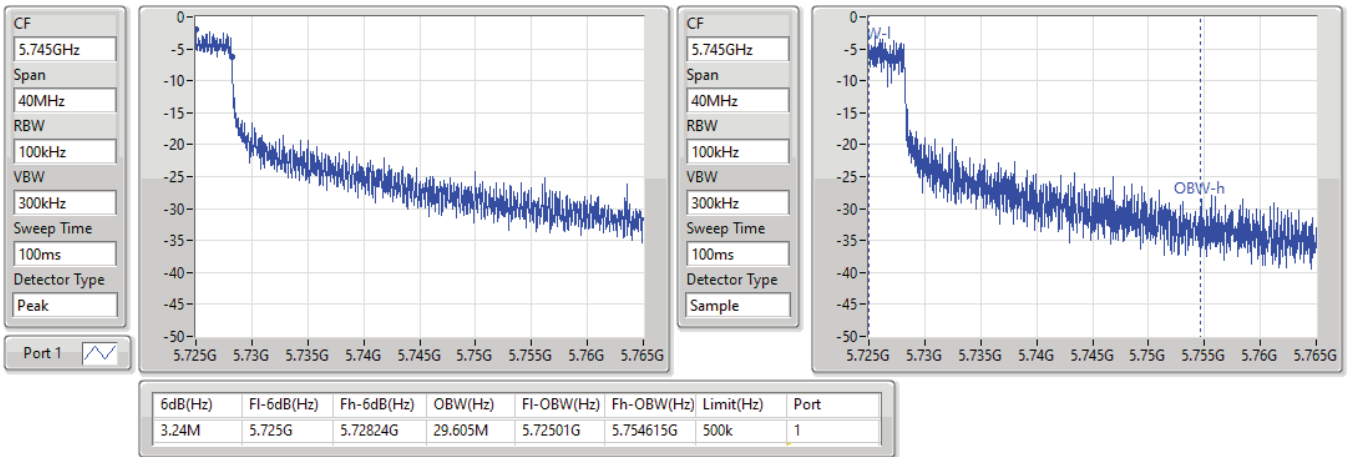


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.725-5.85GHz

01/07/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.32	0.13552	27.53	0.56624
802.11n HT20_Nss1,(MCS0)_4TX	21.30	0.13490	27.51	0.56364
802.11n HT40_Nss1,(MCS0)_4TX	22.82	0.19143	29.03	0.79983
802.11ac VHT20_Nss1,(MCS0)_4TX	23.11	0.20464	29.32	0.85507
802.11ac VHT40_Nss1,(MCS0)_4TX	22.82	0.19143	29.03	0.79983
802.11ac VHT80_Nss1,(MCS0)_4TX	19.71	0.09354	25.92	0.39084
802.11ax HEW20_Nss1,(MCS0)_4TX	23.24	0.21086	29.45	0.88105
802.11ax HEW40_Nss1,(MCS0)_4TX	22.96	0.19770	29.17	0.82604
802.11ax HEW80_Nss1,(MCS0)_4TX	20.02	0.10046	26.23	0.41976
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.80	0.15136	28.07	0.64121
802.11n HT20_Nss1,(MCS0)_4TX	22.21	0.16634	28.48	0.70469
802.11n HT40_Nss1,(MCS0)_4TX	22.94	0.19679	29.21	0.83368
802.11ac VHT20_Nss1,(MCS0)_4TX	23.02	0.20045	29.29	0.84918
802.11ac VHT40_Nss1,(MCS0)_4TX	22.97	0.19815	29.24	0.83946
802.11ac VHT80_Nss1,(MCS0)_4TX	22.53	0.17906	28.80	0.75858
802.11ax HEW20_Nss1,(MCS0)_4TX	23.15	0.20654	29.42	0.87498
802.11ax HEW40_Nss1,(MCS0)_4TX	23.22	0.20989	29.49	0.88920
802.11ax HEW80_Nss1,(MCS0)_4TX	23.17	0.20749	29.44	0.87902
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	15.43	0.03491	21.70	0.14791
802.11n HT20_Nss1,(MCS0)_4TX	16.55	0.04519	22.82	0.19143
802.11n HT40_Nss1,(MCS0)_4TX	11.35	0.01365	17.62	0.05781
802.11ac VHT20_Nss1,(MCS0)_4TX	16.80	0.04786	23.07	0.20277
802.11ac VHT40_Nss1,(MCS0)_4TX	11.82	0.01521	18.09	0.06442
802.11ac VHT80_Nss1,(MCS0)_4TX	7.80	0.00603	14.07	0.02553
802.11ax HEW20_Nss1,(MCS0)_4TX	17.31	0.05383	23.58	0.22803
802.11ax HEW40_Nss1,(MCS0)_4TX	13.22	0.02099	19.49	0.08892
802.11ax HEW80_Nss1,(MCS0)_4TX	9.34	0.00859	15.61	0.03639



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	6.21	15.23	15.25	15.15	15.34	21.26	23.65	27.47	29.86
5300MHz	Pass	6.21	15.61	15.52	14.88	15.14	21.32	23.65	27.53	29.86
5320MHz	Pass	6.21	15.59	15.41	14.95	15.19	21.31	23.64	27.52	29.85
5500MHz	Pass	6.27	15.47	15.56	14.97	15.97	21.53	23.63	27.80	29.90
5580MHz	Pass	6.27	15.28	15.57	14.89	15.74	21.40	23.56	27.67	29.83
5700MHz	Pass	6.27	14.18	14.87	13.99	14.23	20.35	23.54	26.62	29.81
5720MHz Straddle 5.47-5.725GHz	Pass	6.27	16.20	15.80	15.05	15.97	21.80	22.29	28.07	28.56
5720MHz Straddle 5.725-5.85GHz	Pass	6.27	8.45	10.36	8.77	9.79	15.43	29.73	21.70	36.00
802.11n HT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	6.21	15.36	15.06	14.93	15.15	21.15	23.77	27.36	30.00
5300MHz	Pass	6.21	15.75	15.42	14.88	15.03	21.30	23.77	27.51	30.00
5320MHz	Pass	6.21	15.46	15.21	15.06	14.89	21.18	23.77	27.39	30.00
5500MHz	Pass	6.27	13.99	14.01	13.54	14.52	20.05	23.71	26.32	30.00
5580MHz	Pass	6.27	16.00	16.43	15.97	16.34	22.21	23.71	28.48	30.00
5700MHz	Pass	6.27	14.19	15.06	14.02	15.00	20.61	23.71	26.88	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.27	16.40	16.29	15.56	16.13	22.13	22.56	28.40	28.83
5720MHz Straddle 5.725-5.85GHz	Pass	6.27	10.29	10.84	10.51	10.44	16.55	29.73	22.82	36.00
802.11n HT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	6.21	16.83	16.85	16.69	16.82	22.82	23.77	29.03	30.00
5310MHz	Pass	6.21	15.10	14.89	14.40	14.71	20.80	23.77	27.01	30.00
5510MHz	Pass	6.27	13.81	13.63	13.29	14.10	19.74	23.71	26.01	30.00
5550MHz	Pass	6.27	16.89	17.12	16.50	17.15	22.94	23.71	29.21	30.00
5670MHz	Pass	6.27	14.40	14.66	14.32	14.67	20.54	23.71	26.81	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.27	16.34	16.39	15.91	16.33	22.27	23.71	28.54	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.27	5.58	4.89	4.57	6.10	11.35	29.73	17.62	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	6.21	17.16	17.04	16.68	17.11	23.02	23.77	29.23	30.00
5300MHz	Pass	6.21	17.58	17.07	16.76	16.91	23.11	23.77	29.32	30.00
5320MHz	Pass	6.21	17.22	17.00	16.64	16.77	22.93	23.77	29.14	30.00
5500MHz	Pass	6.27	14.06	14.13	13.54	14.48	20.09	23.71	26.36	30.00
5580MHz	Pass	6.27	16.92	17.23	16.69	17.13	23.02	23.71	29.29	30.00
5700MHz	Pass	6.27	14.34	15.12	14.04	15.08	20.69	23.71	26.96	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.27	16.41	16.62	16.35	16.64	22.53	23.54	28.80	29.81
5720MHz Straddle 5.725-5.85GHz	Pass	6.27	10.96	10.41	11.03	10.71	16.80	29.73	23.07	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	6.21	16.89	16.81	16.58	16.91	22.82	23.77	29.03	30.00
5310MHz	Pass	6.21	15.12	14.92	14.38	14.71	20.81	23.77	27.02	30.00
5510MHz	Pass	6.27	13.72	13.74	13.23	14.24	19.77	23.71	26.04	30.00
5550MHz	Pass	6.27	16.87	17.12	16.29	17.42	22.97	23.71	29.24	30.00
5670MHz	Pass	6.27	14.51	14.52	14.35	14.75	20.56	23.71	26.83	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.27	16.83	16.99	16.50	16.87	22.82	23.71	29.09	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.27	6.12	5.33	5.11	6.48	11.82	29.73	18.09	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	6.21	13.73	13.78	13.58	13.67	19.71	23.77	25.92	30.00
5530MHz	Pass	6.27	13.58	13.48	12.94	14.01	19.54	23.71	25.81	30.00
5610MHz	Pass	6.27	14.90	15.06	13.92	15.10	20.79	23.71	27.06	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.27	16.45	16.65	16.25	16.68	22.53	23.71	28.80	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.27	2.06	1.34	1.13	2.46	7.80	29.73	14.07	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	6.21	17.37	17.18	16.81	17.28	23.19	23.77	29.40	30.00
5300MHz	Pass	6.21	17.48	17.26	17.05	17.06	23.24	23.77	29.45	30.00
5320MHz	Pass	6.21	17.51	17.18	16.91	16.87	23.15	23.77	29.36	30.00
5500MHz	Pass	6.27	14.15	14.27	13.77	14.86	20.30	23.71	26.57	30.00
5580MHz	Pass	6.27	17.15	17.39	16.48	17.42	23.15	23.71	29.42	30.00



Average Power_Non-Beamforming_Radio 1_4T1S

Appendix B.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5700MHz	Pass	6.27	14.98	15.20	14.72	15.07	21.02	23.71	27.29	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.27	17.01	16.64	15.78	16.80	22.60	23.60	28.87	29.87
5720MHz Straddle 5.725-5.85GHz	Pass	6.27	11.90	10.92	10.98	11.28	17.31	29.73	23.58	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	6.21	17.06	16.97	16.74	16.98	22.96	23.77	29.17	30.00
5310MHz	Pass	6.21	15.29	15.12	14.84	14.82	21.04	23.77	27.25	30.00
5510MHz	Pass	6.27	13.85	13.95	13.65	14.29	19.96	23.71	26.23	30.00
5550MHz	Pass	6.27	17.06	17.30	16.58	17.49	23.14	23.71	29.41	30.00
5670MHz	Pass	6.27	14.57	14.83	14.65	14.80	20.73	23.71	27.00	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.27	17.22	17.40	16.95	17.23	23.22	23.71	29.49	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.27	7.17	6.99	6.61	7.91	13.22	29.73	19.49	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	6.21	14.08	14.15	13.82	13.94	20.02	23.77	26.23	30.00
5530MHz	Pass	6.27	13.78	13.82	13.26	14.37	19.85	23.71	26.12	30.00
5610MHz	Pass	6.27	15.05	15.17	14.22	15.47	21.02	23.71	27.29	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.27	17.02	17.32	16.96	17.27	23.17	23.71	29.44	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.27	3.57	2.90	3.04	3.70	9.34	29.73	15.61	36.00

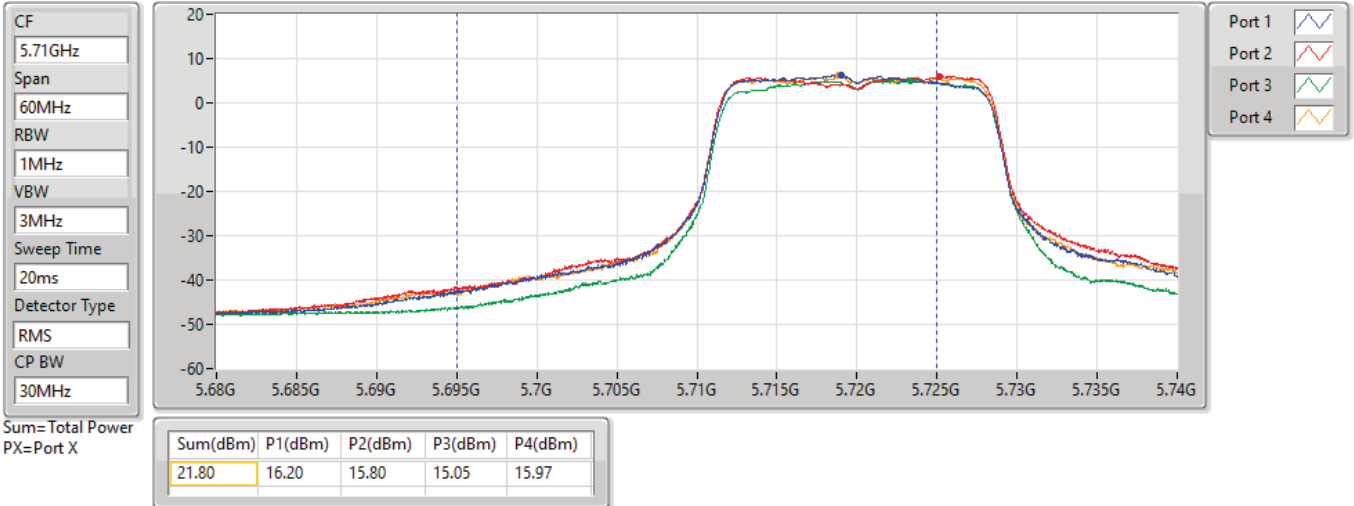
DG = Directional Gain; Port X = Port X output power

802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

04/06/2021

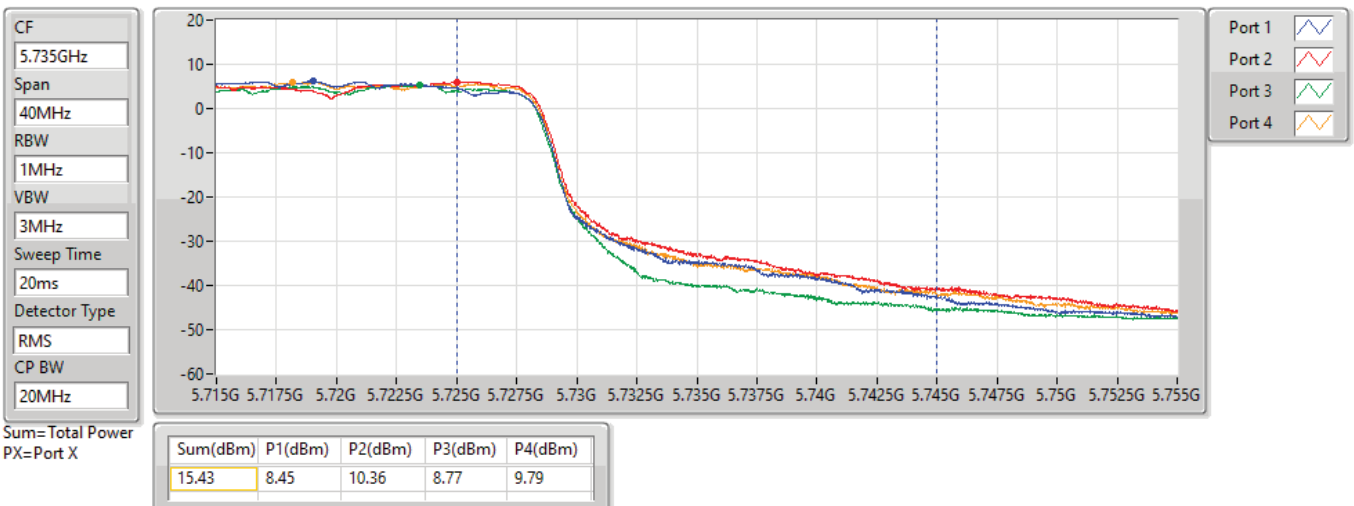


802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

04/06/2021



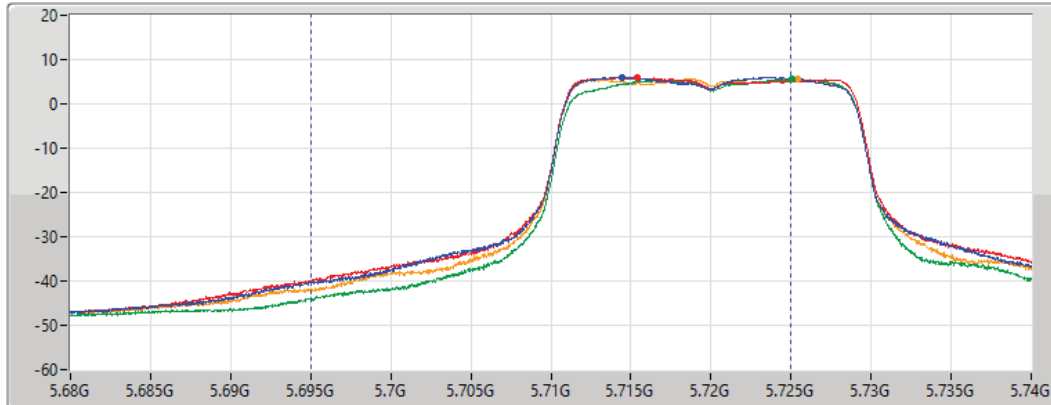
802.11n HT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

04/06/2021

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.13	16.40	16.29	15.56	16.13

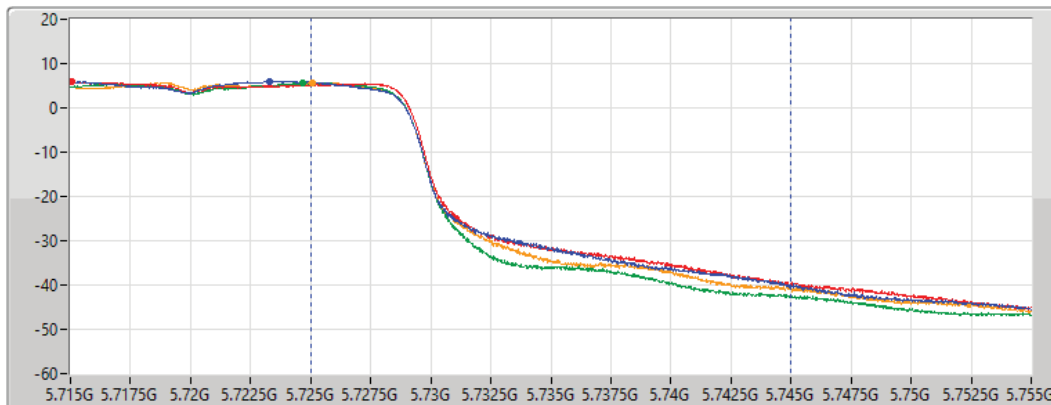
802.11n HT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

04/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
16.55	10.29	10.84	10.51	10.44

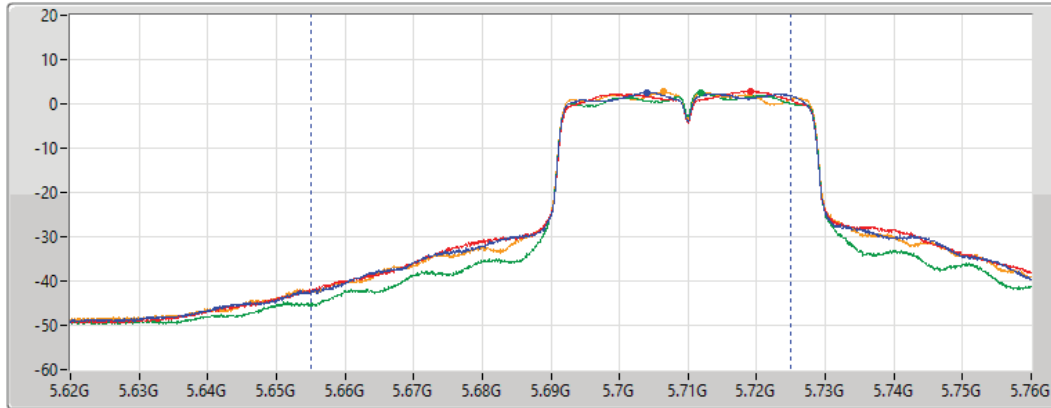
802.11n HT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

04/06/2021

CF
5.69GHz
Span
140MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
70MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.27	16.34	16.39	15.91	16.33

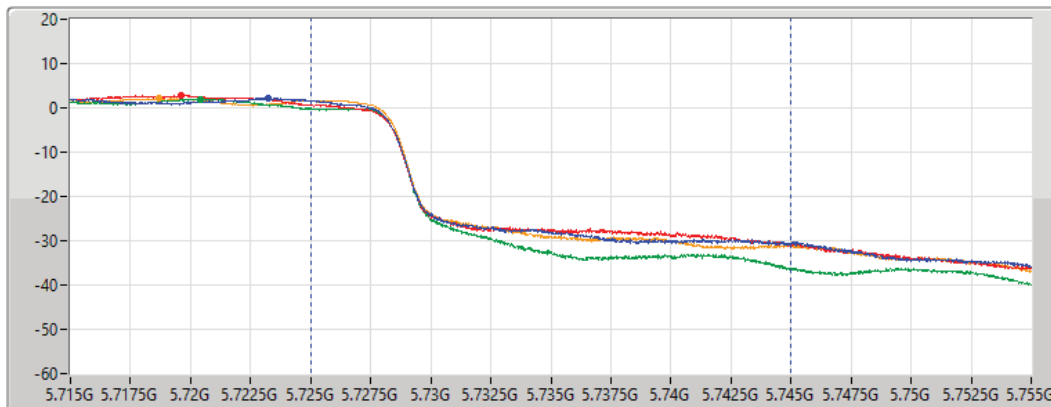
802.11n HT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

04/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

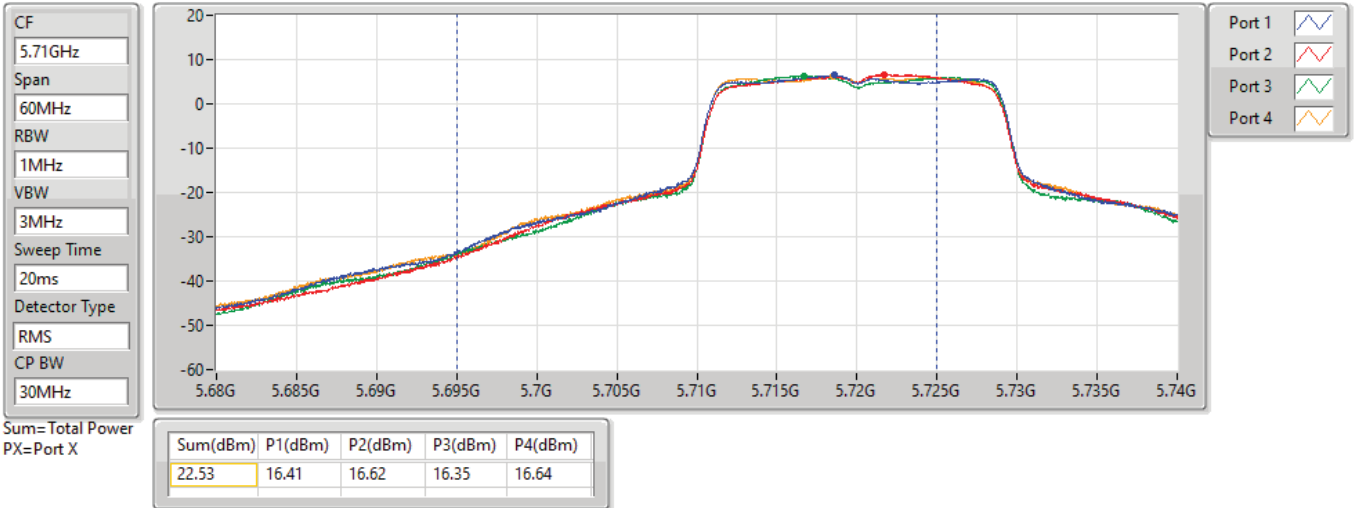
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
11.35	5.58	4.89	4.57	6.10

802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.67-5.725GHz_TnomVnom

04/06/2021

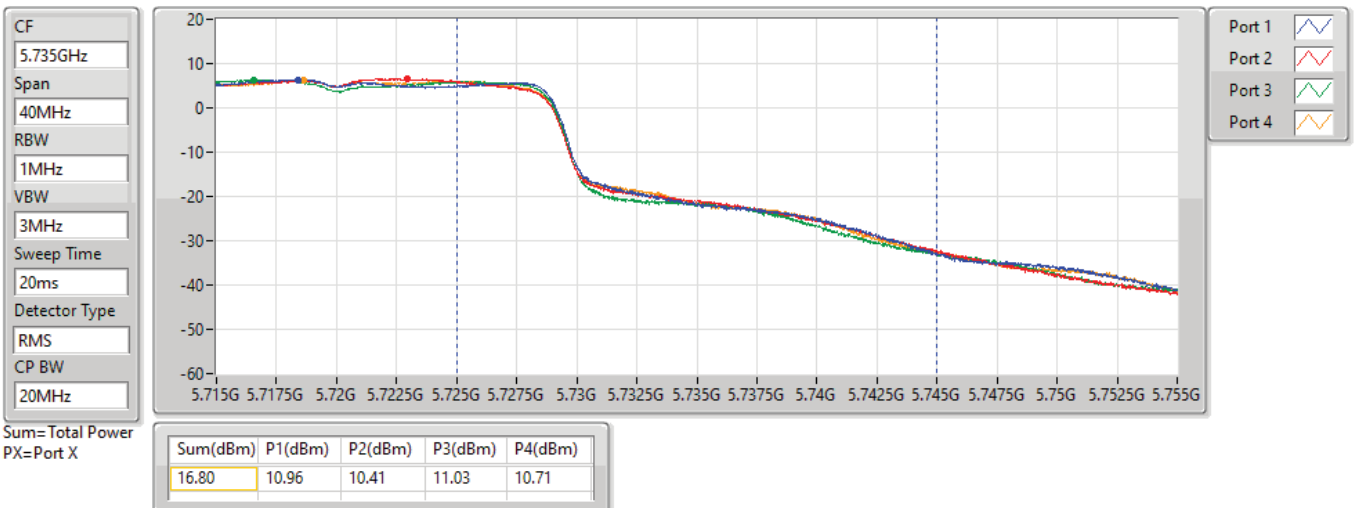


802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

04/06/2021



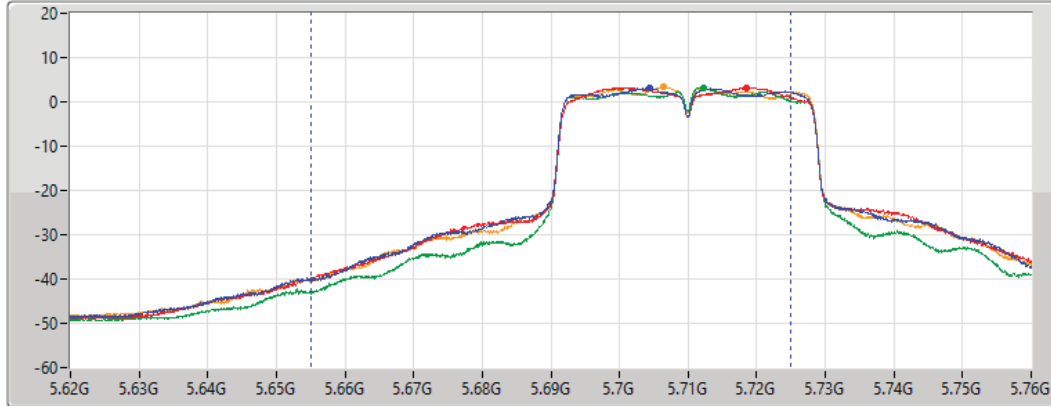
802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

04/06/2021

CF
5.69GHz
Span
140MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
70MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.82	16.83	16.99	16.50	16.87

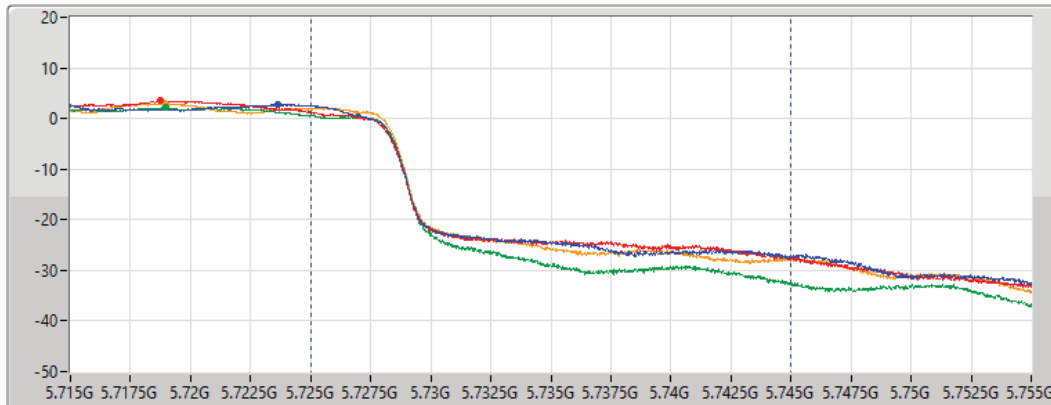
802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

04/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

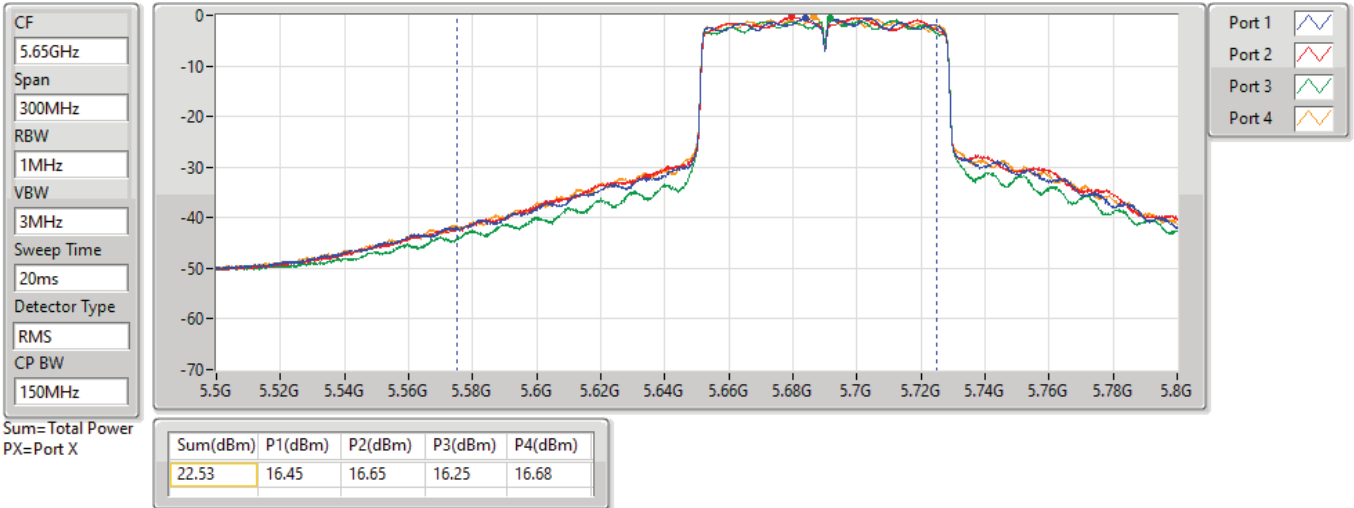
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
11.82	6.12	5.33	5.11	6.48

802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

04/06/2021

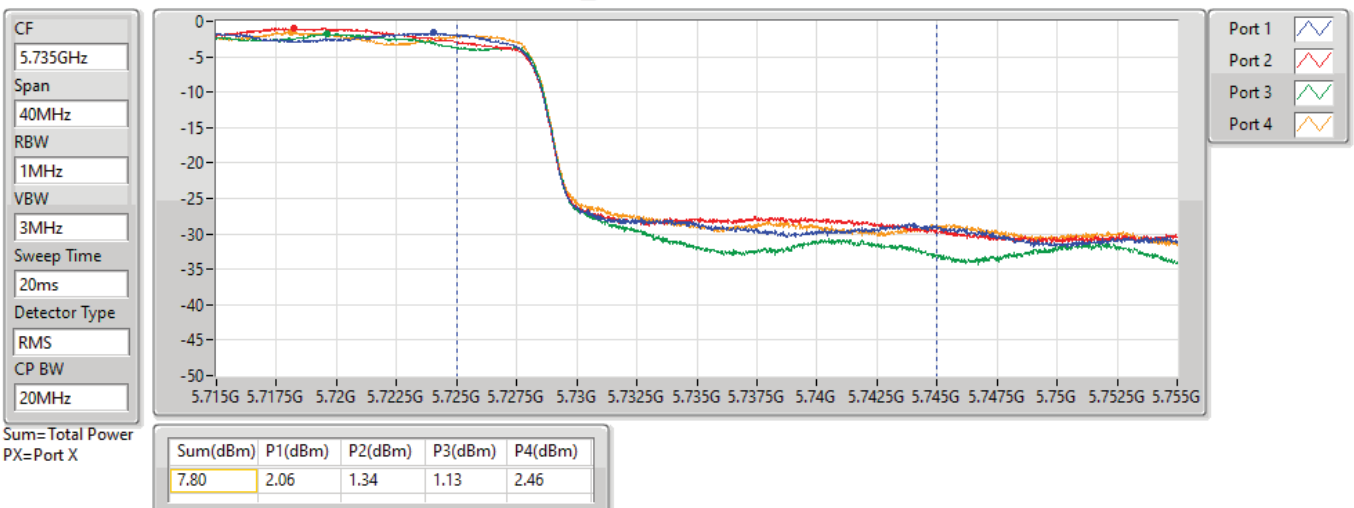


802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

04/06/2021



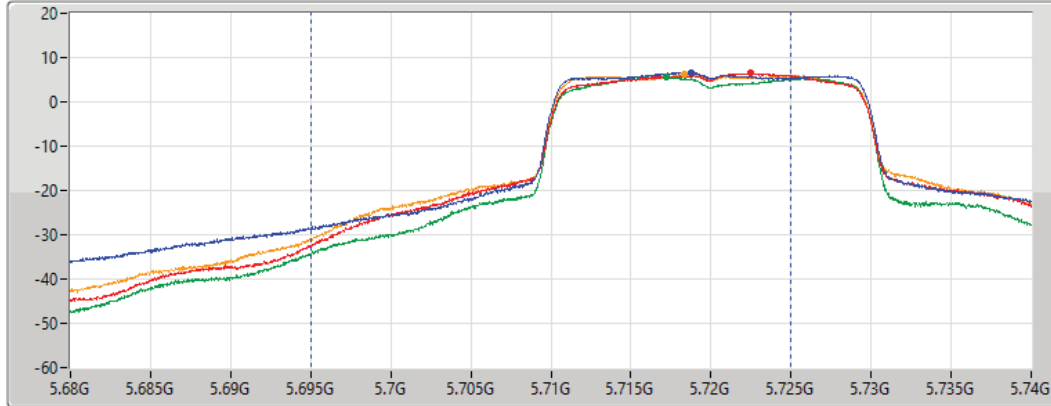
802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

04/06/2021

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.60	17.01	16.64	15.78	16.80

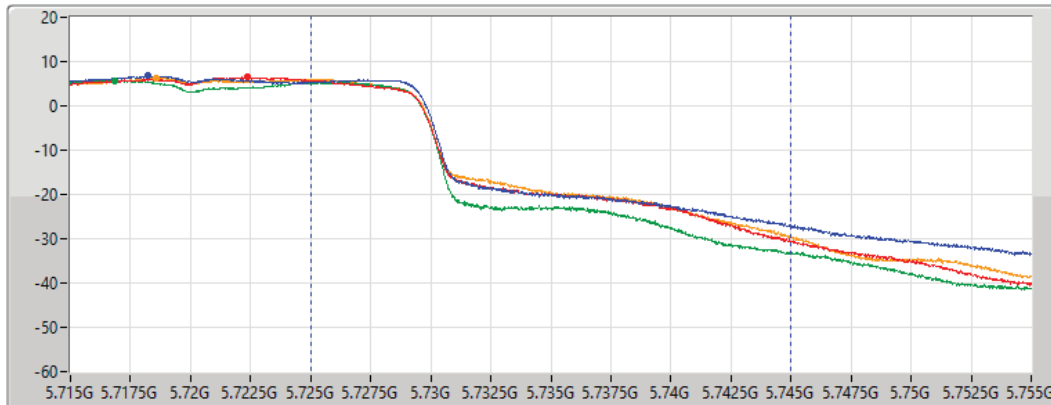
802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

04/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4

Sum= Total Power
PX=Port X

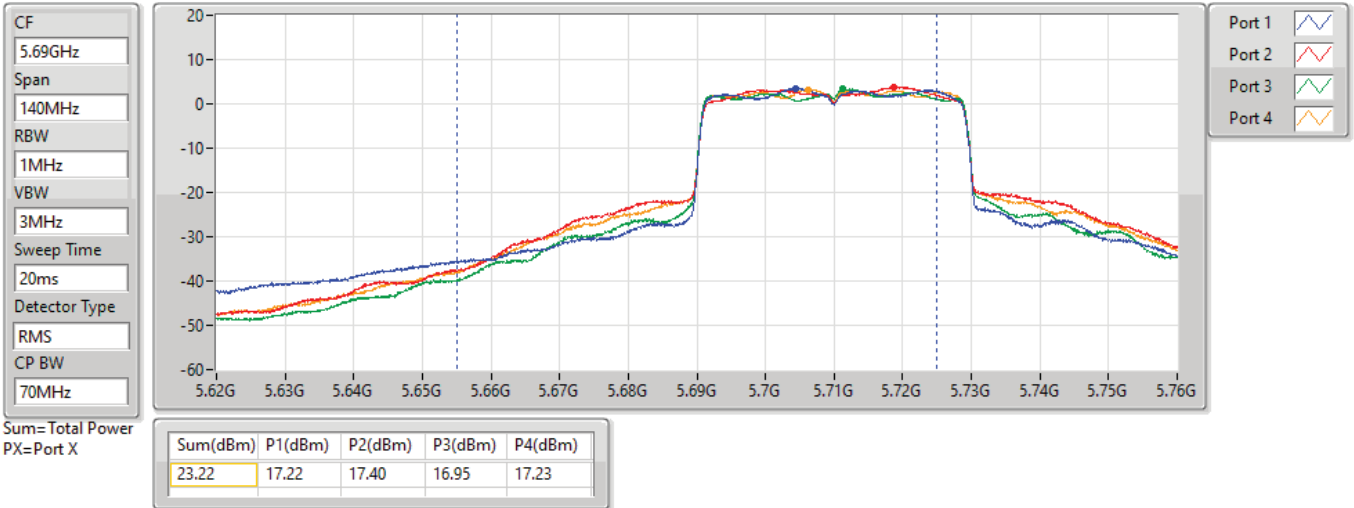
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.31	11.90	10.92	10.98	11.28

802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

04/06/2021

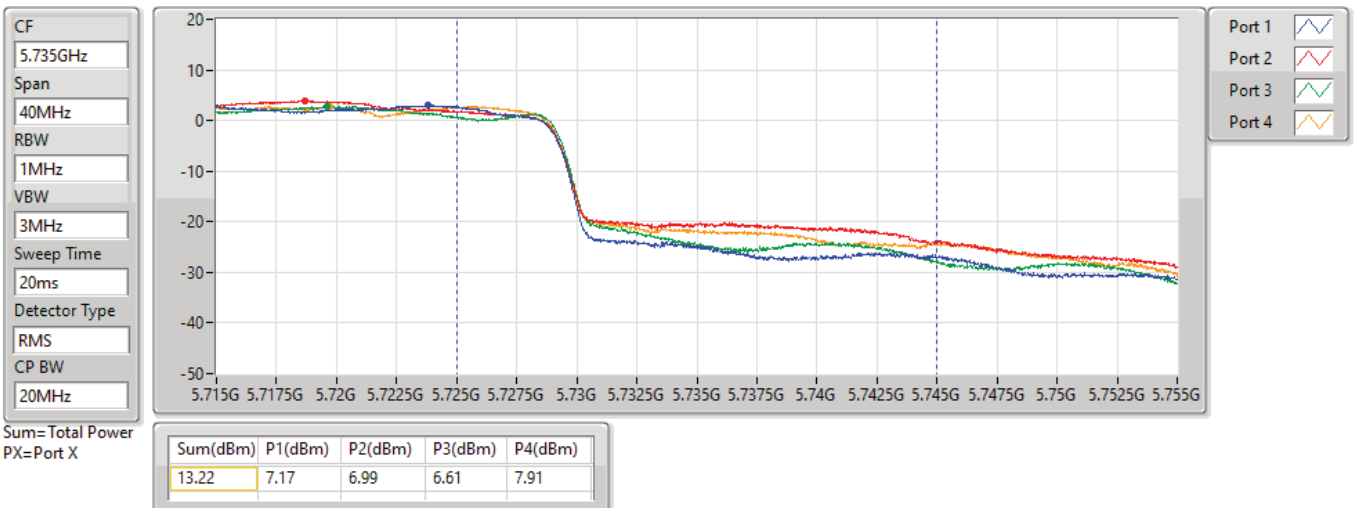


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

04/06/2021

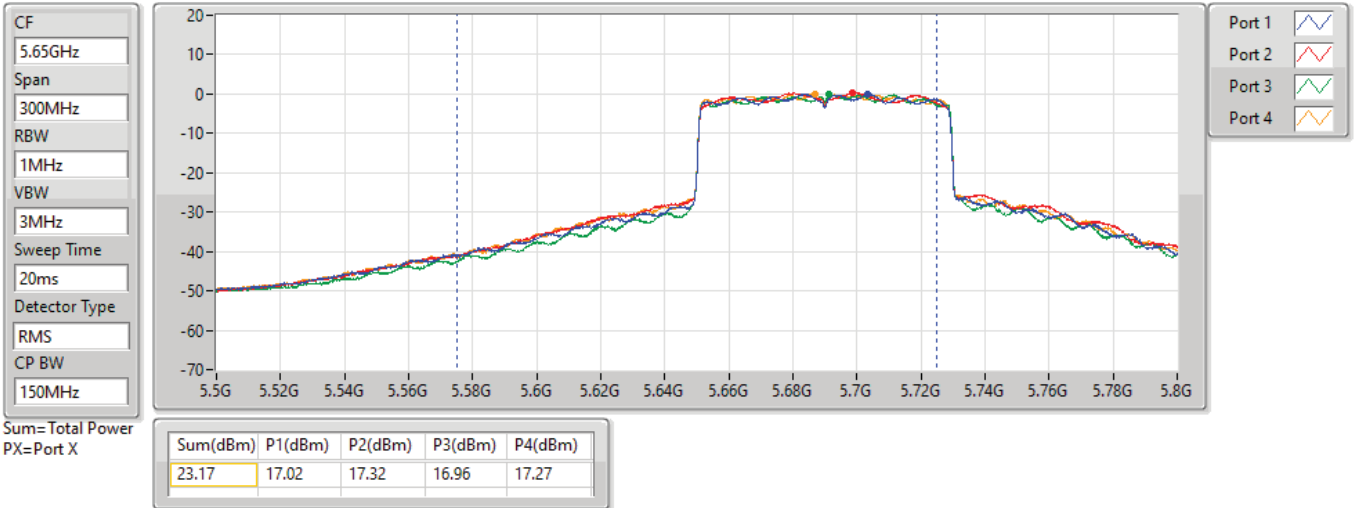


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

04/06/2021

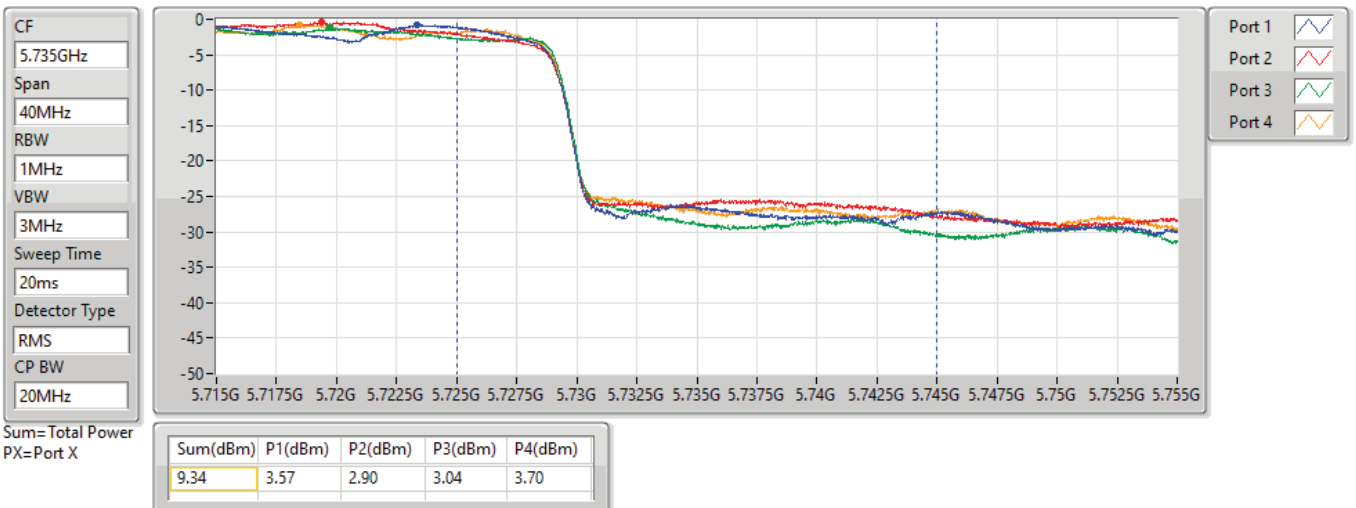


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

04/06/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT80+80_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)	19.38	0.08670	25.59	0.36224
802.11ax HEW80+80_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)	19.67	0.09268	25.88	0.38726
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	19.97	0.09931	29.24	0.83946
802.11n HT20_Nss1,(MCS0)_8TX	19.89	0.09750	29.16	0.82414
802.11n HT40_Nss1,(MCS0)_8TX	22.95	0.19724	29.22	0.83560
802.11ac VHT20_Nss1,(MCS0)_8TX	19.84	0.09638	29.11	0.81470
802.11ac VHT40_Nss1,(MCS0)_8TX	22.93	0.19634	29.20	0.83176
802.11ac VHT80_Nss1,(MCS0)_8TX	21.89	0.15453	28.16	0.65464
802.11ac VHT80+80_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)	19.38	0.08670	25.65	0.36728
802.11ax HEW20_Nss1,(MCS0)_8TX	20.18	0.10423	29.45	0.88105
802.11ax HEW40_Nss1,(MCS0)_8TX	23.09	0.20370	29.36	0.86298
802.11ax HEW80_Nss1,(MCS0)_8TX	22.17	0.16482	28.44	0.69823
802.11ax HEW80+80_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)	19.57	0.09057	25.84	0.38371
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	19.86	0.09683	29.13	0.81846
802.11n HT20_Nss1,(MCS0)_8TX	19.83	0.09616	29.10	0.81283
802.11n HT40_Nss1,(MCS0)_8TX	22.84	0.19231	29.11	0.81470
802.11ac VHT20_Nss1,(MCS0)_8TX	19.96	0.09908	29.23	0.83753
802.11ac VHT40_Nss1,(MCS0)_8TX	22.85	0.19275	29.12	0.81658
802.11ac VHT80_Nss1,(MCS0)_8TX	22.95	0.19724	29.22	0.83560
802.11ac VHT80+80_Nss1,(MCS0)_8TX	22.23	0.16711	28.50	0.70795
802.11ax HEW20_Nss1,(MCS0)_8TX	20.05	0.10116	29.32	0.85507
802.11ax HEW40_Nss1,(MCS0)_8TX	22.93	0.19634	29.20	0.83176
802.11ax HEW80_Nss1,(MCS0)_8TX	22.97	0.19815	29.24	0.83946
802.11ax HEW80+80_Nss1,(MCS0)_8TX	22.52	0.17865	28.79	0.75683
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	11.64	0.01459	20.91	0.12331
802.11n HT20_Nss1,(MCS0)_8TX	12.70	0.01862	21.97	0.15740
802.11n HT40_Nss1,(MCS0)_8TX	10.79	0.01199	17.06	0.05082
802.11ac VHT20_Nss1,(MCS0)_8TX	12.99	0.01991	22.26	0.16827
802.11ac VHT40_Nss1,(MCS0)_8TX	10.70	0.01175	16.97	0.04977
802.11ac VHT80_Nss1,(MCS0)_8TX	7.99	0.00630	14.26	0.02667
802.11ax HEW20_Nss1,(MCS0)_8TX	13.16	0.02070	22.43	0.17498
802.11ax HEW40_Nss1,(MCS0)_8TX	11.67	0.01469	17.94	0.06223
802.11ax HEW80_Nss1,(MCS0)_8TX	8.73	0.00746	15.00	0.03162



Average Power_Non-Beamforming_Radio 1_8T1S

Appendix B.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	9.27	10.65	11.38	11.11	10.96	11.35	10.85	10.44	10.72	19.97	20.56	29.24	29.83
5300MHz	Pass	9.27	10.79	10.86	11.13	10.98	11.02	10.93	10.84	10.60	19.93	20.52	29.20	29.79
5320MHz	Pass	9.27	10.64	11.07	10.61	10.94	11.01	10.88	10.82	10.64	19.86	20.58	29.13	29.85
5500MHz	Pass	9.27	10.93	10.63	10.94	10.83	11.07	10.76	10.55	10.75	19.84	20.58	29.11	29.85
5580MHz	Pass	9.27	10.80	10.97	10.81	10.75	11.39	10.69	10.54	10.17	19.81	20.57	29.08	29.84
5700MHz	Pass	9.27	10.83	10.92	10.48	11.02	11.50	10.55	11.05	10.13	19.86	20.51	29.13	29.78
5720MHz Straddle 5.47-5.725GHz	Pass	9.27	9.44	9.16	9.16	9.68	10.03	8.86	9.27	8.93	18.36	19.30	27.63	28.57
5720MHz Straddle 5.725-5.85GHz	Pass	9.27	2.82	2.78	1.83	2.81	3.29	2.15	2.46	2.54	11.64	26.73	20.91	36.00
802.11n HT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	9.27	10.55	11.11	11.16	10.91	10.88	10.82	10.79	10.65	19.89	20.71	29.16	30.00
5300MHz	Pass	9.27	10.76	10.98	10.60	11.00	11.33	10.92	10.44	10.67	19.88	20.71	29.15	30.00
5320MHz	Pass	9.27	10.41	10.96	10.51	10.89	10.72	10.92	10.72	10.40	19.73	20.71	29.00	30.00
5500MHz	Pass	9.27	10.79	10.90	10.49	10.88	11.14	10.86	10.57	10.69	19.83	20.71	29.10	30.00
5580MHz	Pass	9.27	10.72	11.00	10.75	10.32	11.16	10.54	10.89	10.07	19.73	20.71	29.00	30.00
5700MHz	Pass	9.27	10.34	10.33	9.97	11.03	11.66	10.61	10.97	9.83	19.66	20.71	28.93	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.27	10.08	8.97	10.40	9.54	10.52	9.18	9.56	9.21	18.75	19.49	28.02	28.76
5720MHz Straddle 5.725-5.85GHz	Pass	9.27	3.93	2.52	4.85	3.19	3.98	2.67	4.12	3.58	12.70	26.73	21.97	36.00
802.11n HT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	6.27	13.68	14.25	13.82	14.00	14.23	14.03	13.59	13.73	22.95	23.71	29.22	30.00
5310MHz	Pass	6.27	13.84	13.97	13.53	14.07	14.04	13.90	13.52	13.74	22.86	23.71	29.13	30.00
5510MHz	Pass	6.27	13.28	12.66	12.64	13.07	12.78	12.95	12.92	12.50	21.89	23.71	28.16	30.00
5550MHz	Pass	6.27	14.02	13.88	13.58	13.99	13.80	13.84	14.03	13.24	22.84	23.71	29.11	30.00
5670MHz	Pass	6.27	13.82	13.80	13.39	13.56	14.29	13.79	13.86	12.61	22.69	23.71	28.96	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.27	13.96	13.82	13.50	13.54	14.36	13.12	13.49	12.47	22.60	23.71	28.87	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.27	2.71	0.82	0.68	1.96	3.14	1.79	1.73	0.49	10.79	29.73	17.06	36.00
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	9.27	10.51	11.18	10.59	10.98	10.92	10.85	10.78	10.66	19.84	20.71	29.11	30.00
5300MHz	Pass	9.27	10.80	10.95	10.52	10.93	11.29	10.89	10.38	10.55	19.83	20.71	29.10	30.00
5320MHz	Pass	9.27	10.46	10.55	10.83	10.86	10.78	10.91	10.83	10.45	19.74	20.71	29.01	30.00
5500MHz	Pass	9.27	10.83	10.67	10.44	11.15	10.76	10.75	10.75	10.72	19.79	20.71	29.06	30.00
5580MHz	Pass	9.27	10.69	11.38	10.94	10.21	11.36	10.52	10.77	10.07	19.80	20.71	29.07	30.00
5700MHz	Pass	9.27	11.00	11.86	10.59	10.53	11.68	10.47	10.64	10.39	19.96	20.71	29.23	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.27	9.94	10.05	8.10	9.91	10.33	9.35	9.22	8.95	18.56	19.47	27.83	28.74
5720MHz Straddle 5.725-5.85GHz	Pass	9.27	3.63	5.20	1.60	3.79	4.91	3.91	4.50	3.21	12.99	26.73	22.26	36.00
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	6.27	13.69	14.22	13.80	13.92	14.19	14.03	13.57	13.74	22.93	23.71	29.20	30.00
5310MHz	Pass	6.27	13.84	13.98	13.54	13.98	14.00	13.91	13.53	13.55	22.83	23.71	29.10	30.00
5510MHz	Pass	6.27	13.19	13.10	12.28	13.16	12.80	12.99	12.82	12.53	21.90	23.71	28.17	30.00
5550MHz	Pass	6.27	14.07	13.99	13.52	13.90	13.79	13.90	14.04	13.24	22.85	23.71	29.12	30.00
5670MHz	Pass	6.27	13.85	13.85	13.40	13.47	14.31	13.80	13.87	12.71	22.71	23.71	28.98	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.27	13.88	13.67	13.29	13.42	14.16	13.01	13.44	12.27	22.46	23.71	28.73	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.27	2.57	0.43	0.88	1.83	2.83	1.95	1.72	0.50	10.70	29.73	16.97	36.00
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	6.27	12.44	13.19	12.75	12.86	12.95	13.01	12.89	12.76	21.89	23.71	28.16	30.00
5530MHz	Pass	6.27	11.04	11.03	11.02	11.23	10.82	11.12	11.18	10.92	20.08	23.71	26.35	30.00
5610MHz	Pass	6.27	13.78	13.67	13.38	13.85	14.31	13.57	13.68	12.85	22.68	23.71	28.95	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.27	14.22	14.30	13.63	13.96	14.48	13.69	14.23	12.61	22.95	23.71	29.22	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.27	-0.36	-1.77	-1.80	-0.66	-0.39	-1.70	-0.41	-1.63	7.99	29.73	14.26	36.00
802.11ac VHT80+80_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz	Pass	6.21	13.15	13.57	13.43	13.29					19.38	29.79	25.59	36.00
802.11ac VHT80+80_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz,#5290MHz	Pass	6.27	-	-	-	-	13.38	13.54	13.14	13.35	19.38	23.71	25.65	30.00



Average Power_Non-Beamforming_Radio 1_8T1S

Appendix B.2

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT80+80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz	Pass	6.27	13.07	13.34	13.06	13.73	13.96	12.78	12.95	12.56	22.23	23.71	28.50	30.00
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	9.27	10.70	11.48	11.16	11.14	11.44	11.10	11.19	10.94	20.18	20.71	29.45	30.00
5300MHz	Pass	9.27	11.11	11.18	10.93	11.16	11.24	10.87	10.87	10.93	20.07	20.71	29.34	30.00
5320MHz	Pass	9.27	10.71	11.11	10.93	11.16	11.47	11.18	10.51	10.83	20.03	20.71	29.30	30.00
5500MHz	Pass	9.27	11.04	10.88	10.70	11.19	10.96	11.01	10.94	10.85	19.98	20.71	29.25	30.00
5580MHz	Pass	9.27	10.94	10.89	10.66	10.78	11.51	10.81	10.64	10.43	19.87	20.71	29.14	30.00
5700MHz	Pass	9.27	10.99	11.18	10.87	10.94	12.04	10.77	11.18	9.88	20.05	20.71	29.32	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.27	9.98	9.94	8.97	9.98	10.94	9.39	9.80	9.37	18.86	19.60	28.13	28.87
5720MHz Straddle 5.725-5.85GHz	Pass	9.27	4.14	4.74	4.31	4.48	4.58	3.51	3.58	3.49	13.16	26.73	22.43	36.00
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	6.27	13.87	14.25	13.90	14.10	14.46	14.14	13.69	14.04	23.09	23.71	29.36	30.00
5310MHz	Pass	6.27	14.05	14.16	13.72	14.27	14.22	14.09	13.72	13.74	23.03	23.71	29.30	30.00
5510MHz	Pass	6.27	13.33	13.04	12.47	13.34	12.98	13.07	12.94	12.48	22.00	23.71	28.27	30.00
5550MHz	Pass	6.27	14.10	13.93	13.86	14.04	13.93	13.88	14.04	13.40	22.93	23.71	29.20	30.00
5670MHz	Pass	6.27	13.85	13.77	13.83	13.46	14.50	13.98	13.85	12.65	22.79	23.71	29.06	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.27	14.01	13.74	13.91	13.61	14.57	13.78	13.56	12.32	22.76	23.71	29.03	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.27	3.18	1.45	2.12	2.68	4.29	2.89	2.63	1.00	11.67	29.73	17.94	36.00
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	6.27	12.76	13.38	12.95	13.18	13.00	13.33	13.24	13.21	22.17	23.71	28.44	30.00
5530MHz	Pass	6.27	11.13	11.32	11.56	11.17	11.17	11.32	11.45	11.34	20.34	23.71	26.61	30.00
5610MHz	Pass	6.27	14.12	13.82	13.83	14.09	14.53	13.99	13.90	13.10	22.97	23.71	29.24	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.27	14.01	14.06	13.98	13.76	14.57	13.65	14.27	12.52	22.92	23.71	29.19	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.27	0.16	-1.43	-0.42	-0.12	0.87	-1.09	0.60	-1.73	8.73	29.73	15.00	36.00
802.11ax HEW80+80_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz	Pass	6.21	13.19	13.81	13.90	13.66					19.67	29.79	25.88	36.00
802.11ax HEW80+80_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz,#5290MHz	Pass	6.27	-	-	-	-	13.70	13.68	13.36	13.43	19.57	23.71	25.84	30.00
802.11ax HEW80+80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz	Pass	6.27	13.62	13.55	13.16	13.83	13.94	13.13	13.52	13.05	22.52	23.71	28.79	30.00

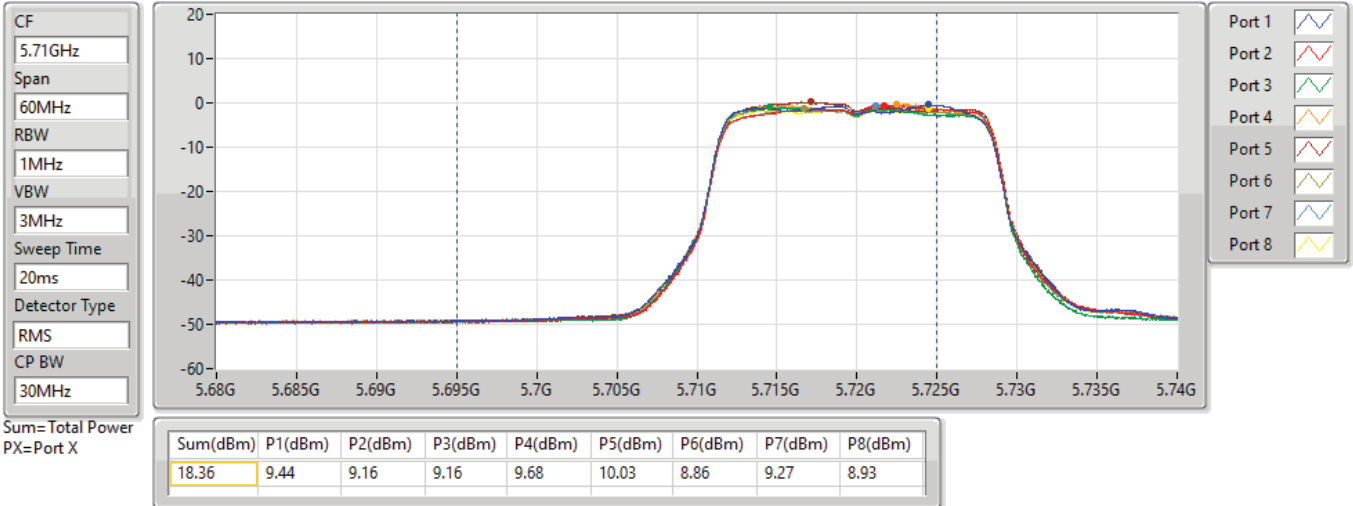
DG = Directional Gain; Port X = Port X output power

802.11a_Nss1,(6Mbps)_8TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

07/06/2021

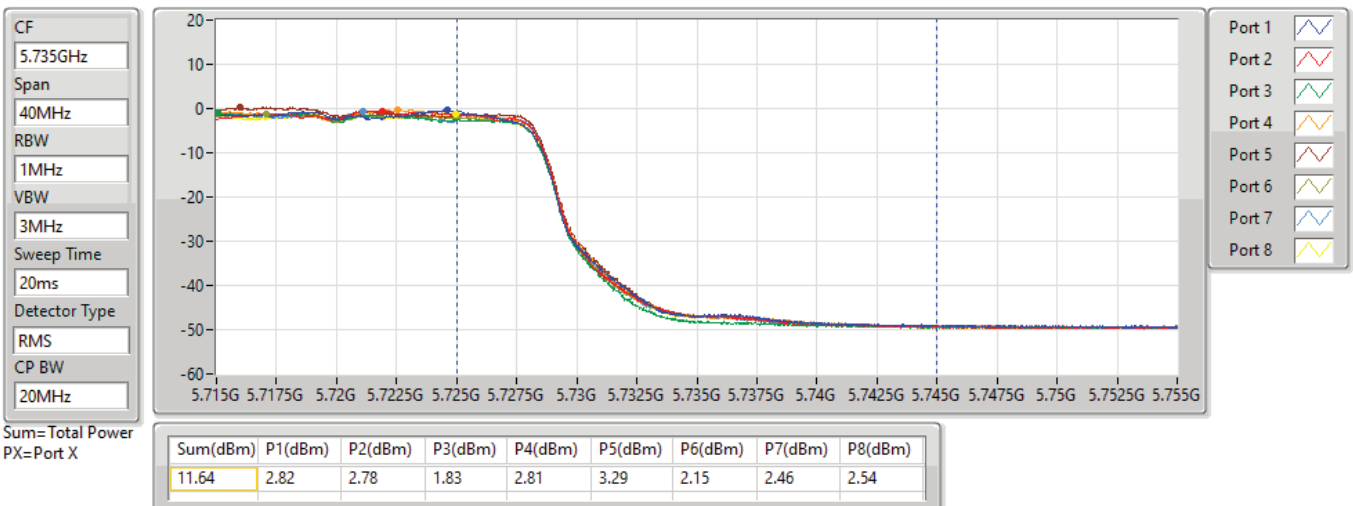


802.11a_Nss1,(6Mbps)_8TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

07/06/2021



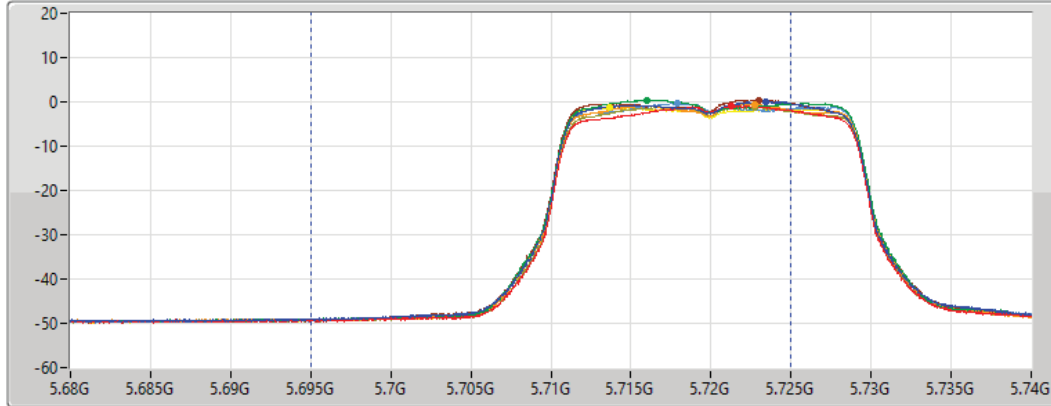
802.11n HT20_Nss1,(MCS0)_8TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

07/06/2021

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
18.75	10.08	8.97	10.40	9.54	10.52	9.18	9.56	9.21

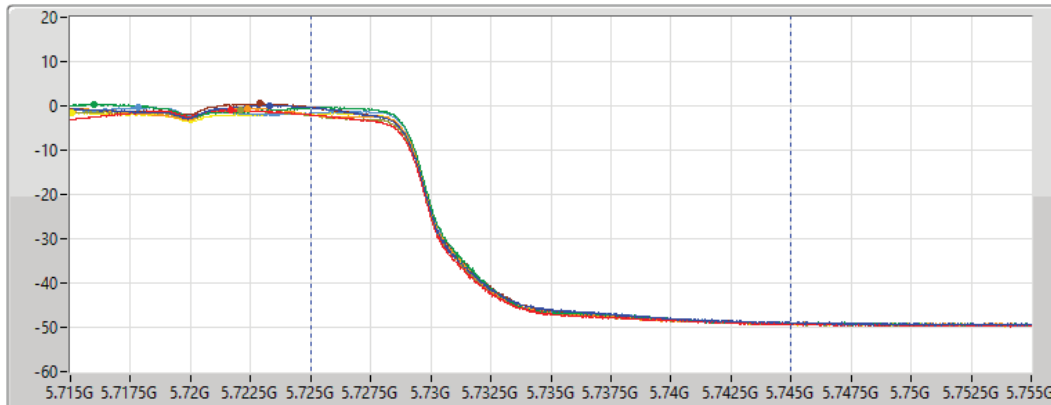
802.11n HT20_Nss1,(MCS0)_8TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

07/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
12.70	3.93	2.52	4.85	3.19	3.98	2.67	4.12	3.58

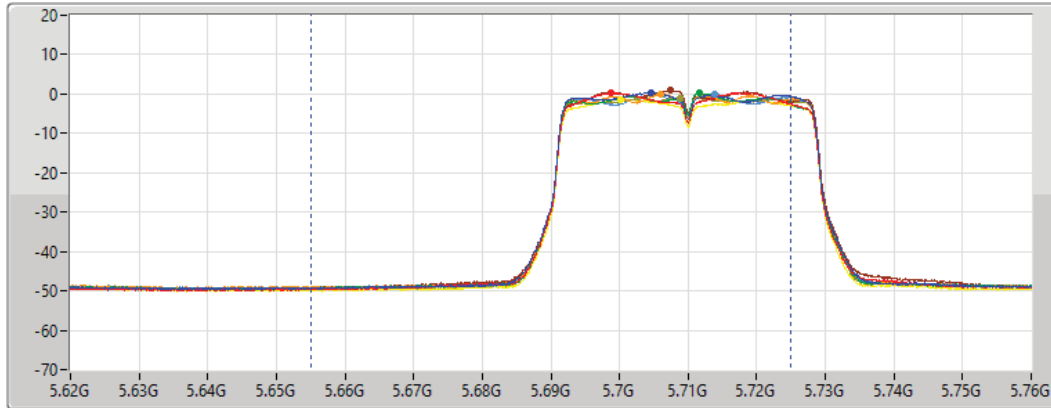
802.11n HT40_Nss1,(MCS0)_8TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

08/06/2021

CF
5.69GHz
Span
140MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
70MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
22.60	13.96	13.82	13.50	13.54	14.36	13.12	13.49	12.47

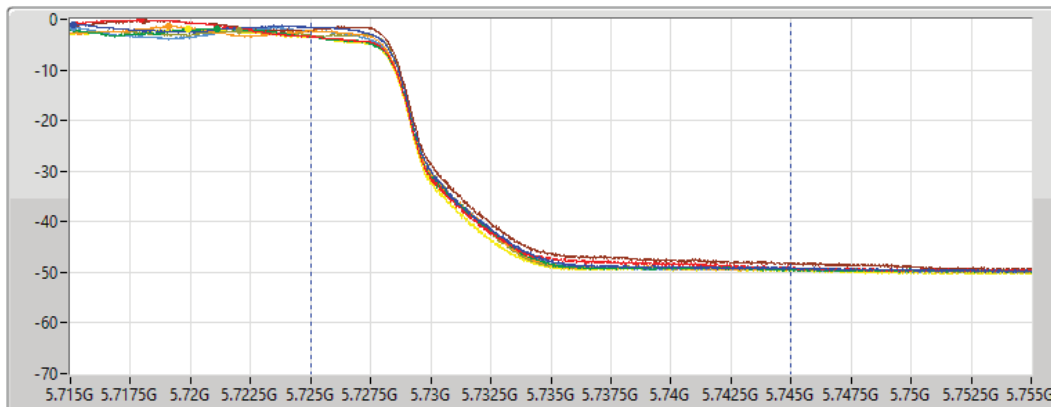
802.11n HT40_Nss1,(MCS0)_8TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

08/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
10.79	2.71	0.82	0.68	1.96	3.14	1.79	1.73	0.49

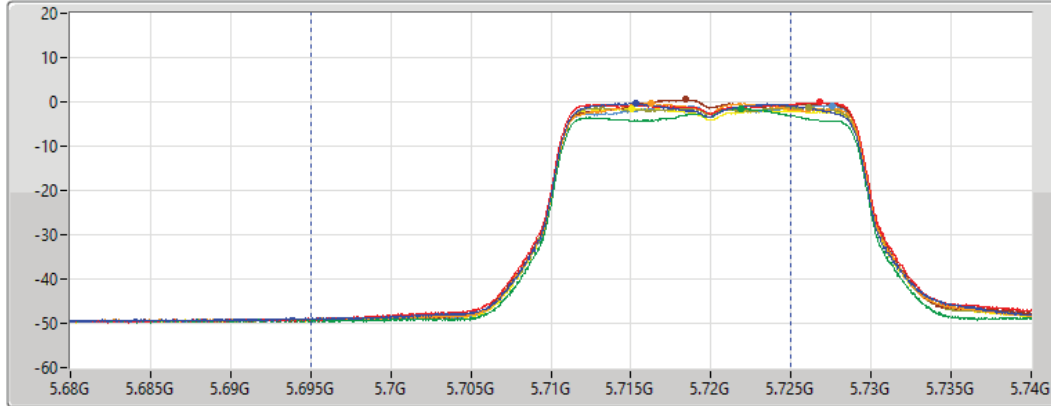
802.11ac VHT20_Nss1,(MCS0)_8TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

07/06/2021

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
18.56	9.94	10.05	8.10	9.91	10.33	9.35	9.22	8.95

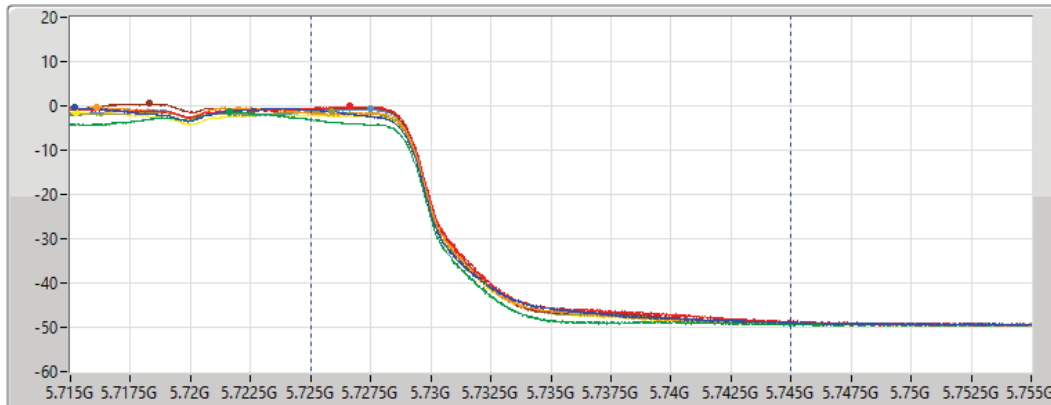
802.11ac VHT20_Nss1,(MCS0)_8TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

07/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
12.99	3.63	5.20	1.60	3.79	4.91	3.91	4.50	3.21

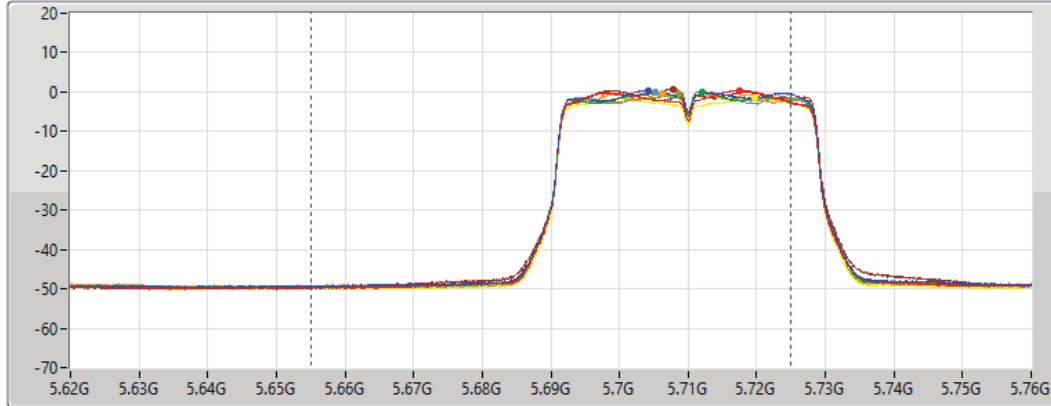
802.11ac VHT40_Nss1,(MCS0)_8TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

08/06/2021

CF
5.69GHz
Span
140MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
70MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
22.46	13.88	13.67	13.29	13.42	14.16	13.01	13.44	12.27

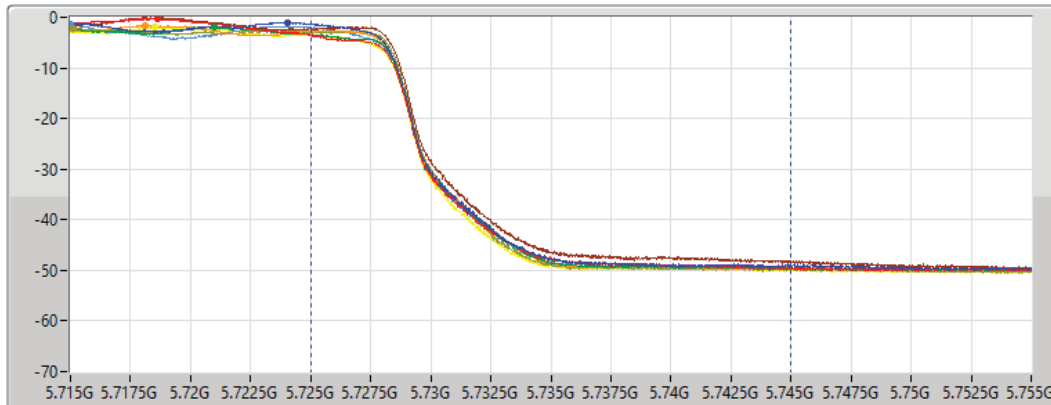
802.11ac VHT40_Nss1,(MCS0)_8TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

08/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
10.70	2.57	0.43	0.88	1.83	2.83	1.95	1.72	0.50

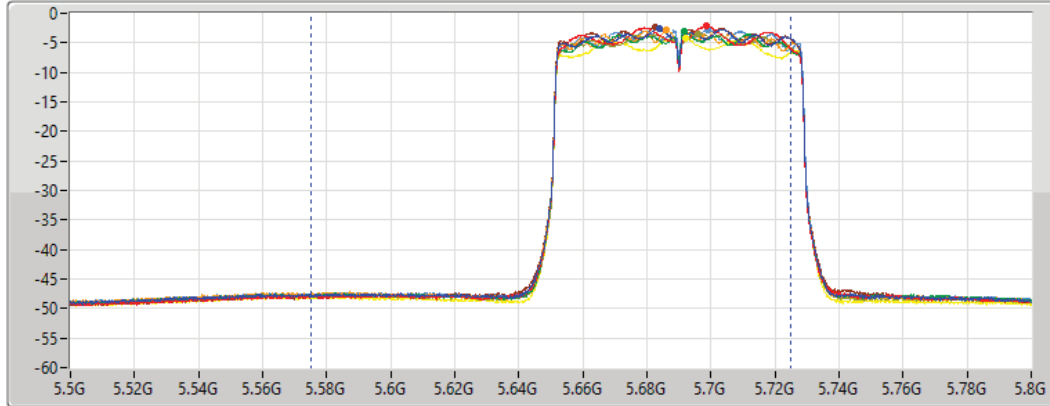
802.11ac VHT80_Nss1,(MCS0)_8TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

08/06/2021

CF
5.65GHz
Span
300MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
150MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
22.95	14.22	14.30	13.63	13.96	14.48	13.69	14.23	12.61

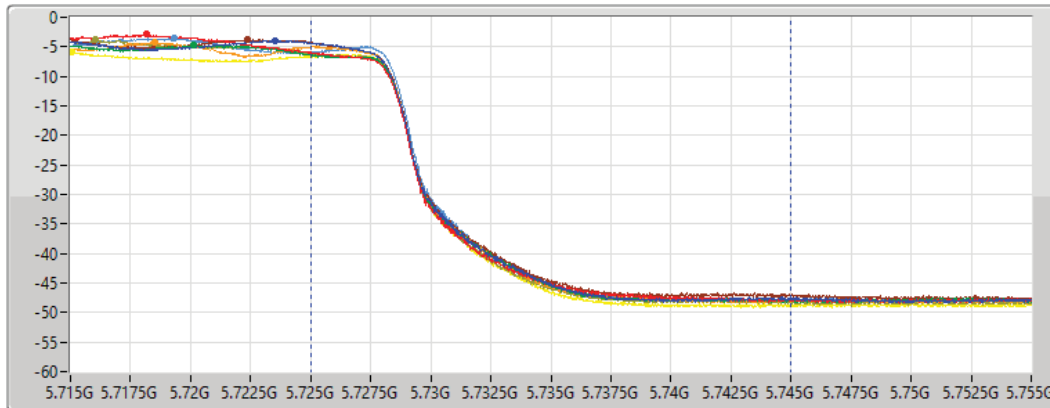
802.11ac VHT80_Nss1,(MCS0)_8TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

08/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
7.99	-0.36	-1.77	-1.80	-0.66	-0.39	-1.70	-0.41	-1.63

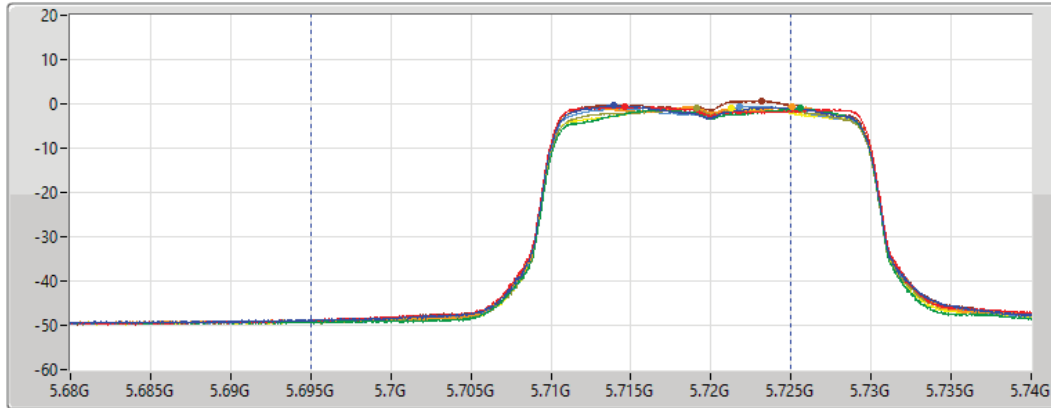
802.11ax HEW20_Nss1,(MCS0)_8TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

07/06/2021

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
18.86	9.98	9.94	8.97	9.98	10.94	9.39	9.80	9.37

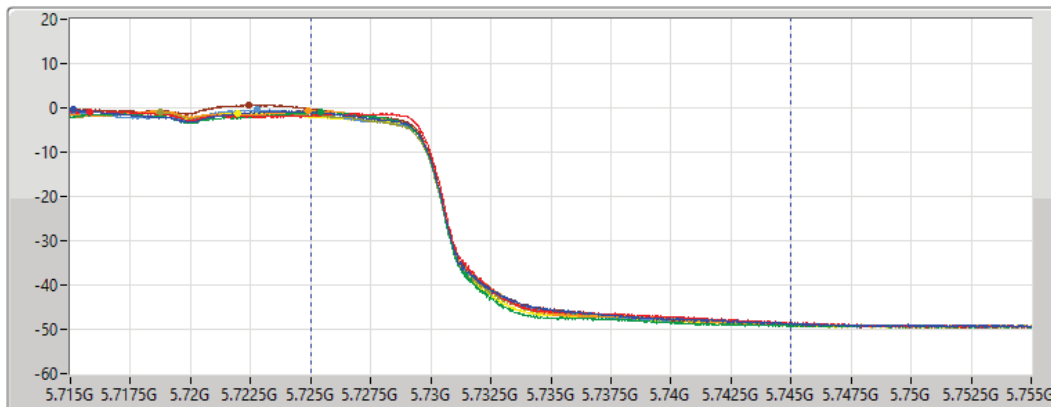
802.11ax HEW20_Nss1,(MCS0)_8TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

07/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
13.16	4.14	4.74	4.31	4.48	4.58	3.51	3.58	3.49

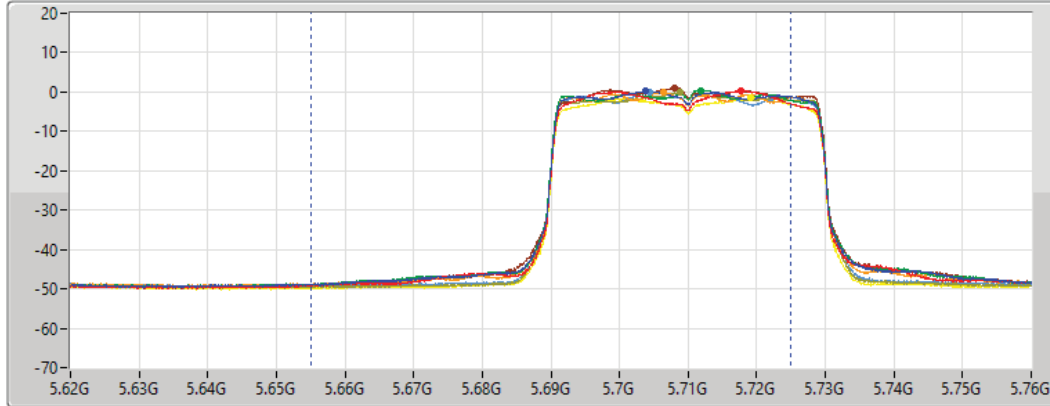
802.11ax HEW40_Nss1,(MCS0)_8TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

08/06/2021

CF
5.69GHz
Span
140MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
70MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
22.76	14.01	13.74	13.91	13.61	14.57	13.78	13.56	12.32

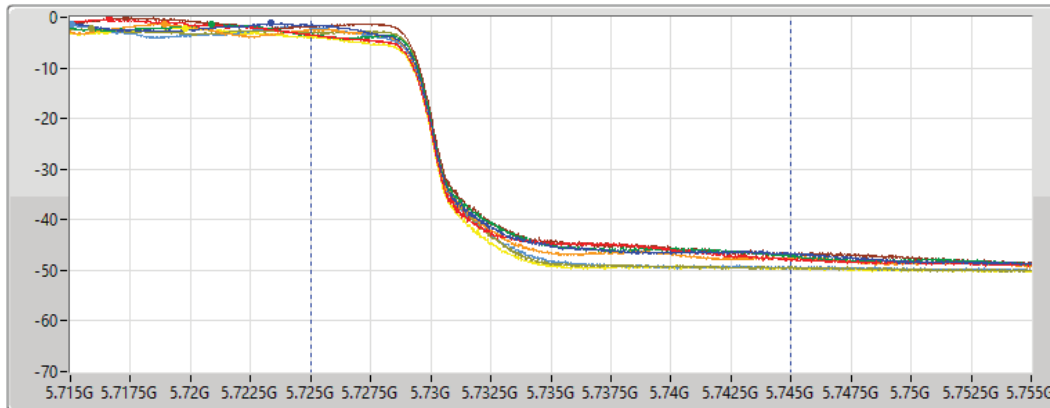
802.11ax HEW40_Nss1,(MCS0)_8TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

08/06/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)	P5(dBm)	P6(dBm)	P7(dBm)	P8(dBm)
11.67	3.18	1.45	2.12	2.68	4.29	2.89	2.63	1.00

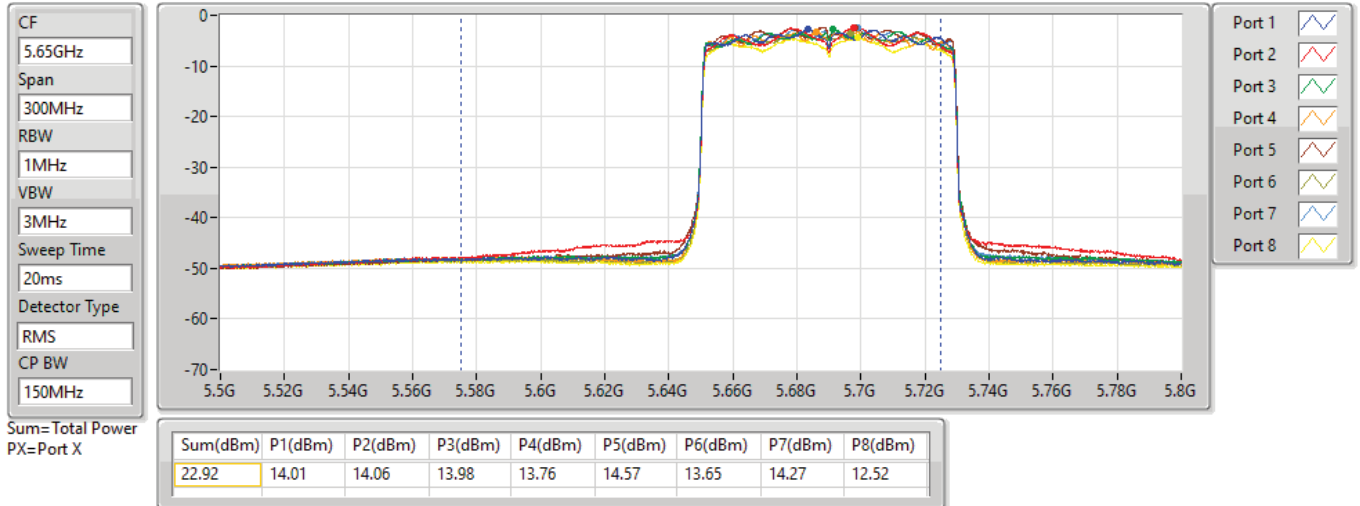


802.11ax HEW80_Nss1,(MCS0)_8TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

08/06/2021

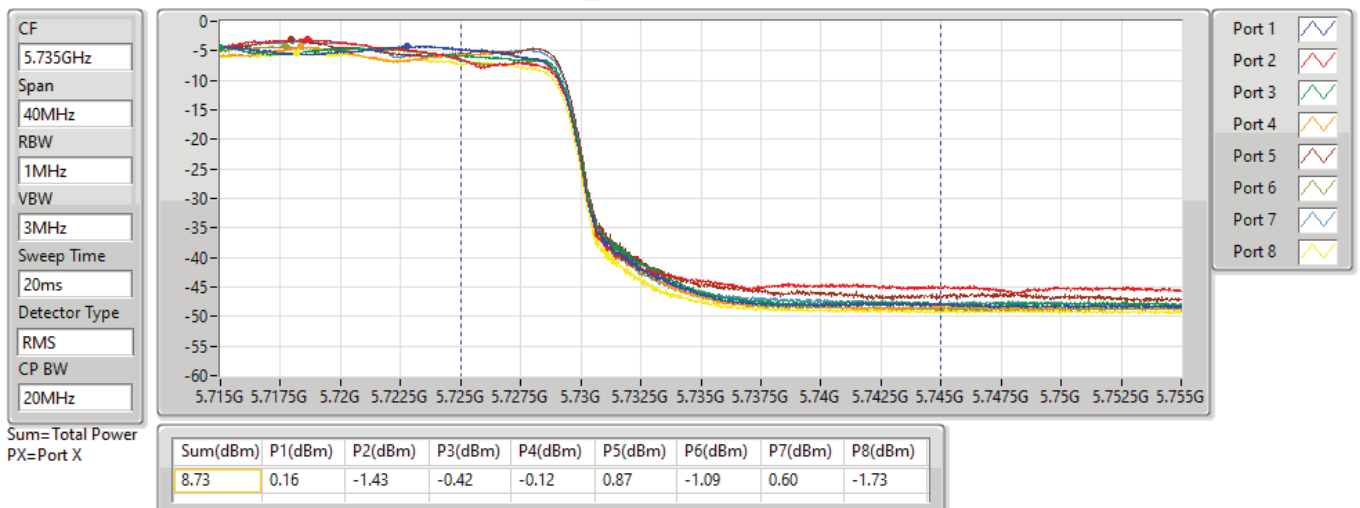


802.11ax HEW80_Nss1,(MCS0)_8TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

08/06/2021





Average Power_Non-Beamforming_Radio 3

Appendix B.3

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	20.73	0.11830	25.33	0.34119
802.11n HT20_Nss1,(MCS0)_1TX	20.32	0.10765	24.92	0.31046
802.11n HT40_Nss1,(MCS0)_1TX	14.06	0.02547	18.66	0.07345
802.11ac VHT20_Nss1,(MCS0)_1TX	20.51	0.11246	25.11	0.32434
802.11ac VHT40_Nss1,(MCS0)_1TX	14.56	0.02858	19.16	0.08241
802.11ac VHT80_Nss1,(MCS0)_1TX	6.46	0.00443	11.06	0.01276
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.75	0.14962	26.35	0.43152
802.11n HT20_Nss1,(MCS0)_1TX	20.95	0.12445	25.55	0.35892
802.11n HT40_Nss1,(MCS0)_1TX	20.51	0.11246	25.11	0.32434
802.11ac VHT20_Nss1,(MCS0)_1TX	21.33	0.13583	25.93	0.39174
802.11ac VHT40_Nss1,(MCS0)_1TX	20.97	0.12503	25.57	0.36058
802.11ac VHT80_Nss1,(MCS0)_1TX	19.20	0.08318	23.80	0.23988
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	12.52	0.01786	17.12	0.05152
802.11n HT20_Nss1,(MCS0)_1TX	12.30	0.01698	16.90	0.04898
802.11n HT40_Nss1,(MCS0)_1TX	7.74	0.00594	12.34	0.01714
802.11ac VHT20_Nss1,(MCS0)_1TX	12.64	0.01837	17.24	0.05297
802.11ac VHT40_Nss1,(MCS0)_1TX	8.09	0.00644	12.69	0.01858
802.11ac VHT80_Nss1,(MCS0)_1TX	4.84	0.00305	9.44	0.00879



Average Power_Non-Beamforming_Radio 3

Appendix B.3

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5260MHz	Pass	4.60	20.63	20.63	23.98	25.23	30.00
5300MHz	Pass	4.60	20.73	20.73	23.98	25.33	30.00
5320MHz	Pass	4.60	18.74	18.74	23.98	23.34	30.00
5500MHz	Pass	4.60	18.67	18.67	23.98	23.27	30.00
5580MHz	Pass	4.60	21.75	21.75	23.98	26.35	30.00
5700MHz	Pass	4.60	18.87	18.87	23.98	23.47	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.60	18.58	18.58	23.98	23.18	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.60	12.52	12.52	30.00	17.12	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5260MHz	Pass	4.60	20.32	20.32	23.98	24.92	30.00
5300MHz	Pass	4.60	20.29	20.29	23.98	24.89	30.00
5320MHz	Pass	4.60	17.76	17.76	23.98	22.36	30.00
5500MHz	Pass	4.60	18.03	18.03	23.98	22.63	30.00
5580MHz	Pass	4.60	20.95	20.95	23.98	25.55	30.00
5700MHz	Pass	4.60	18.13	18.13	23.98	22.73	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.60	17.81	17.81	23.81	22.41	29.81
5720MHz Straddle 5.725-5.85GHz	Pass	4.60	12.30	12.30	30.00	16.90	36.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5270MHz	Pass	4.60	13.63	13.63	23.98	18.23	30.00
5310MHz	Pass	4.60	14.06	14.06	23.98	18.66	30.00
5510MHz	Pass	4.60	17.24	17.24	23.98	21.84	30.00
5550MHz	Pass	4.60	20.51	20.51	23.98	25.11	30.00
5670MHz	Pass	4.60	18.91	18.91	23.98	23.51	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.60	18.25	18.25	23.98	22.85	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.60	7.74	7.74	30.00	12.34	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5260MHz	Pass	4.60	20.51	20.51	23.98	25.11	30.00
5300MHz	Pass	4.60	20.46	20.46	23.98	25.06	30.00
5320MHz	Pass	4.60	18.16	18.16	23.98	22.76	30.00
5500MHz	Pass	4.60	18.61	18.61	23.98	23.21	30.00
5580MHz	Pass	4.60	21.33	21.33	23.98	25.93	30.00
5700MHz	Pass	4.60	18.68	18.68	23.98	23.28	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.60	18.19	18.19	23.98	22.79	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.60	12.64	12.64	30.00	17.24	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5270MHz	Pass	4.60	13.82	13.82	23.98	18.42	30.00
5310MHz	Pass	4.60	14.56	14.56	23.98	19.16	30.00
5510MHz	Pass	4.60	17.80	17.80	23.98	22.40	30.00
5550MHz	Pass	4.60	20.97	20.97	23.98	25.57	30.00
5670MHz	Pass	4.60	19.59	19.59	23.98	24.19	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.60	18.63	18.63	23.98	23.23	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.60	8.09	8.09	30.00	12.69	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5290MHz	Pass	4.60	6.46	6.46	23.98	11.06	30.00
5530MHz	Pass	4.60	12.96	12.96	23.98	17.56	30.00
5610MHz	Pass	4.60	19.20	19.20	23.98	23.80	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.60	19.16	19.16	23.98	23.76	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.60	4.84	4.84	30.00	9.44	36.00

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

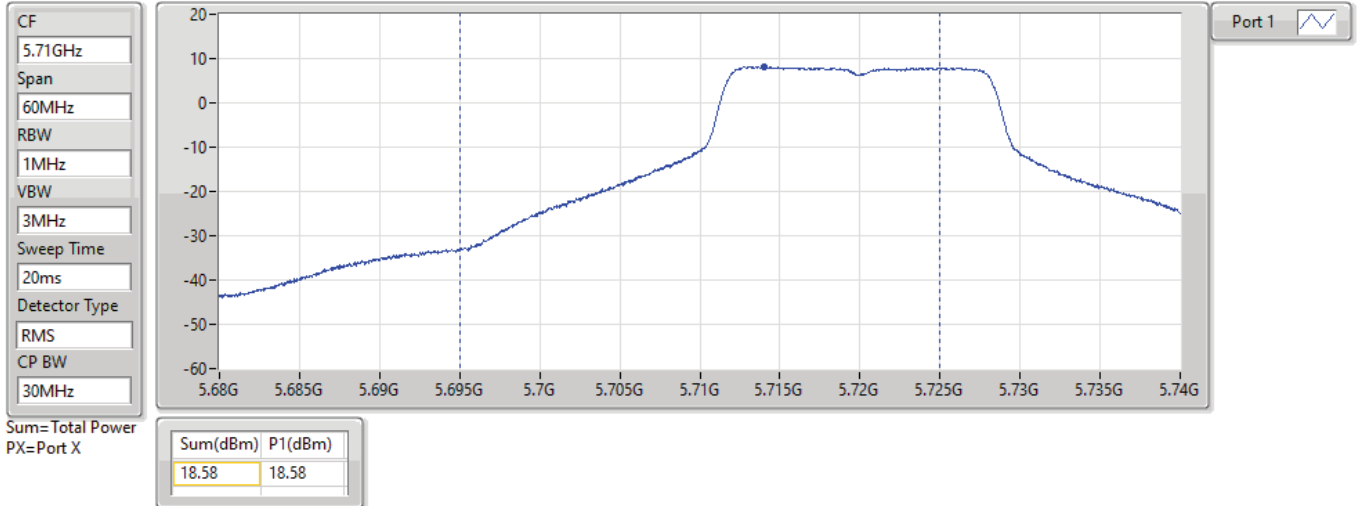


802.11a_Nss1,(6Mbps)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

01/07/2021

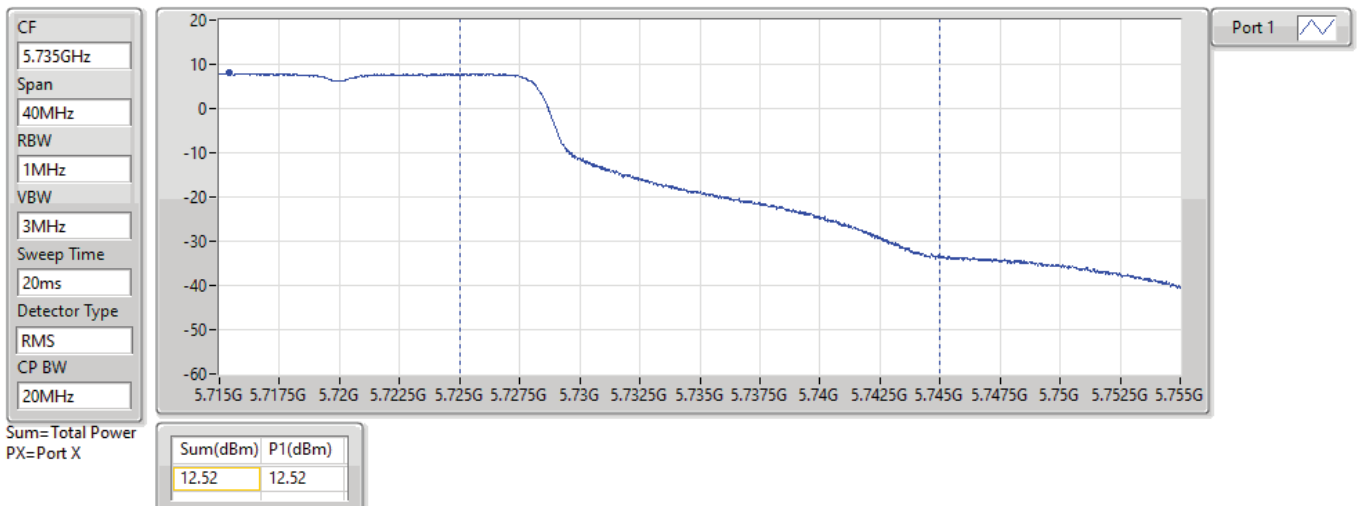


802.11a_Nss1,(6Mbps)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

01/07/2021



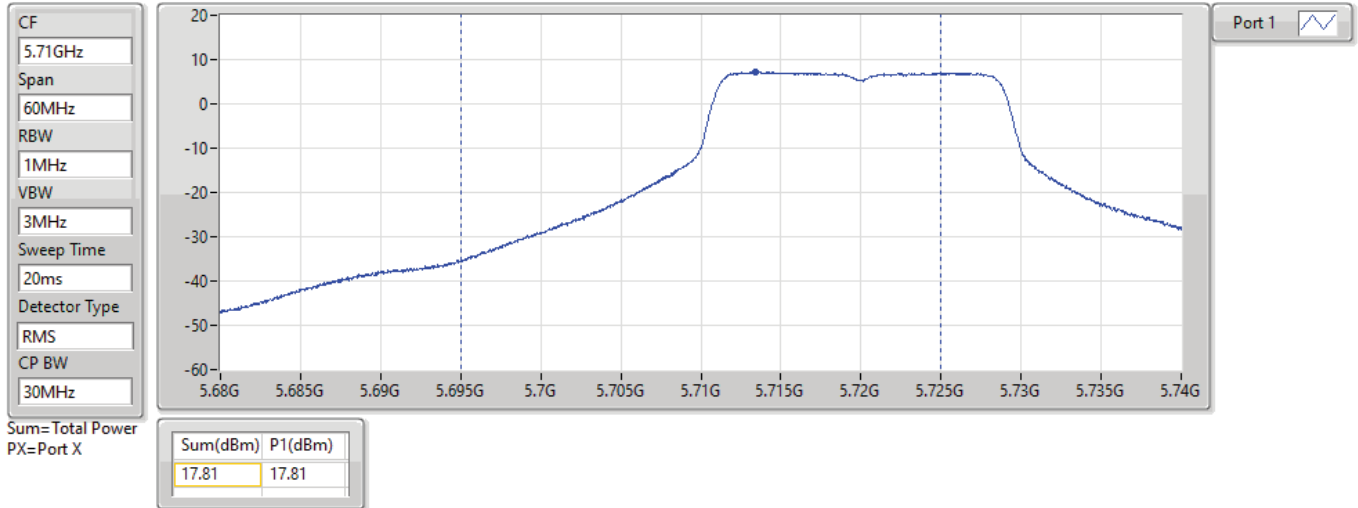


802.11n HT20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

01/07/2021

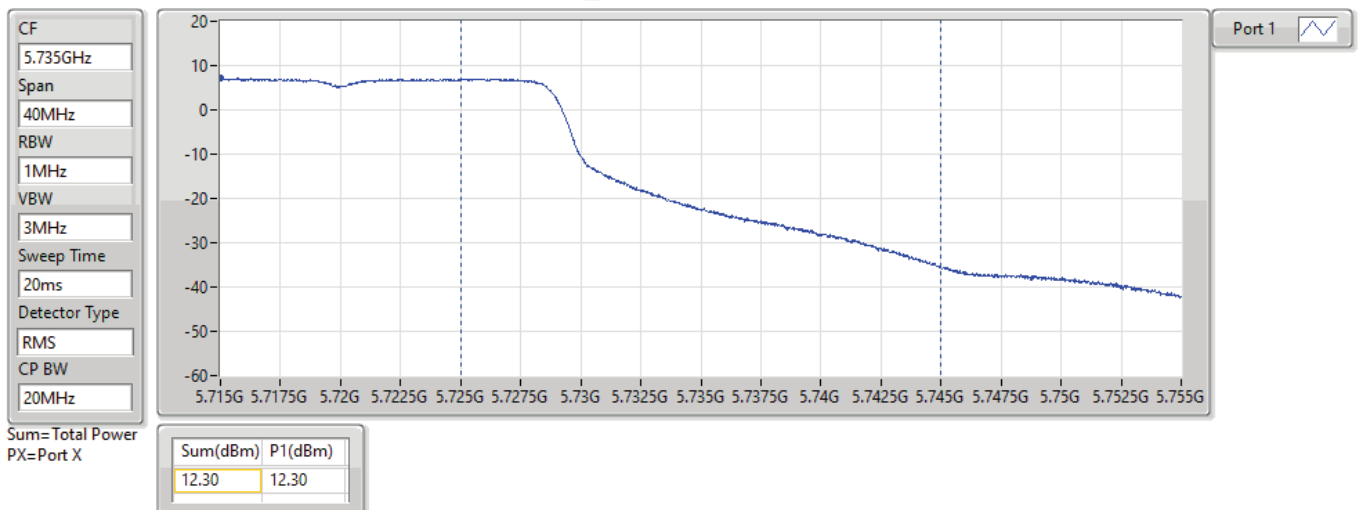


802.11n HT20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

01/07/2021

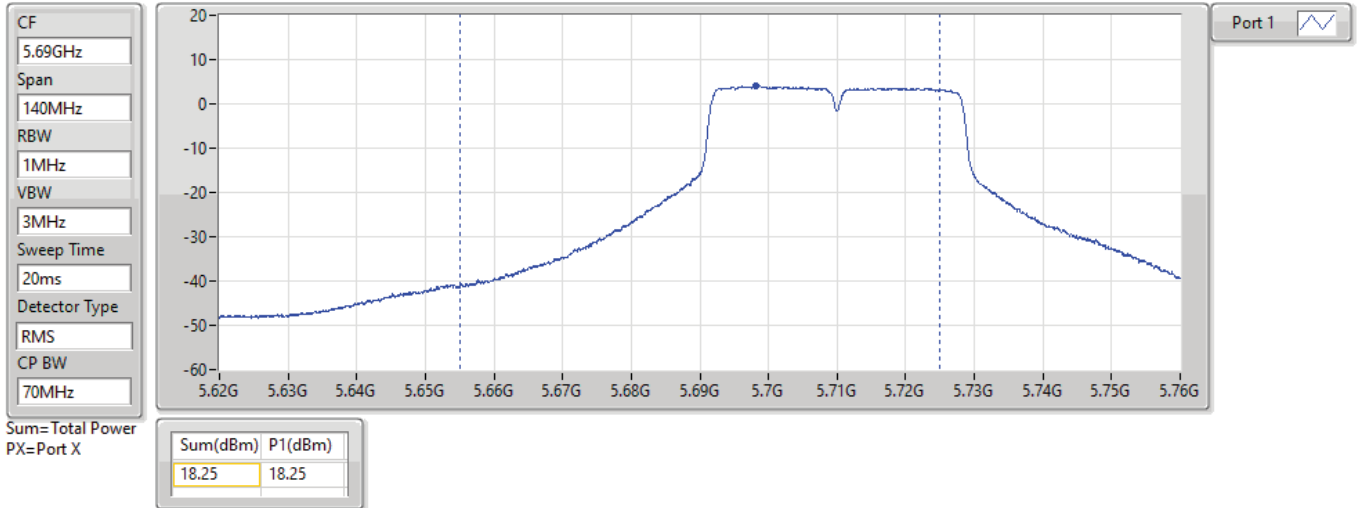


802.11n HT40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

01/07/2021

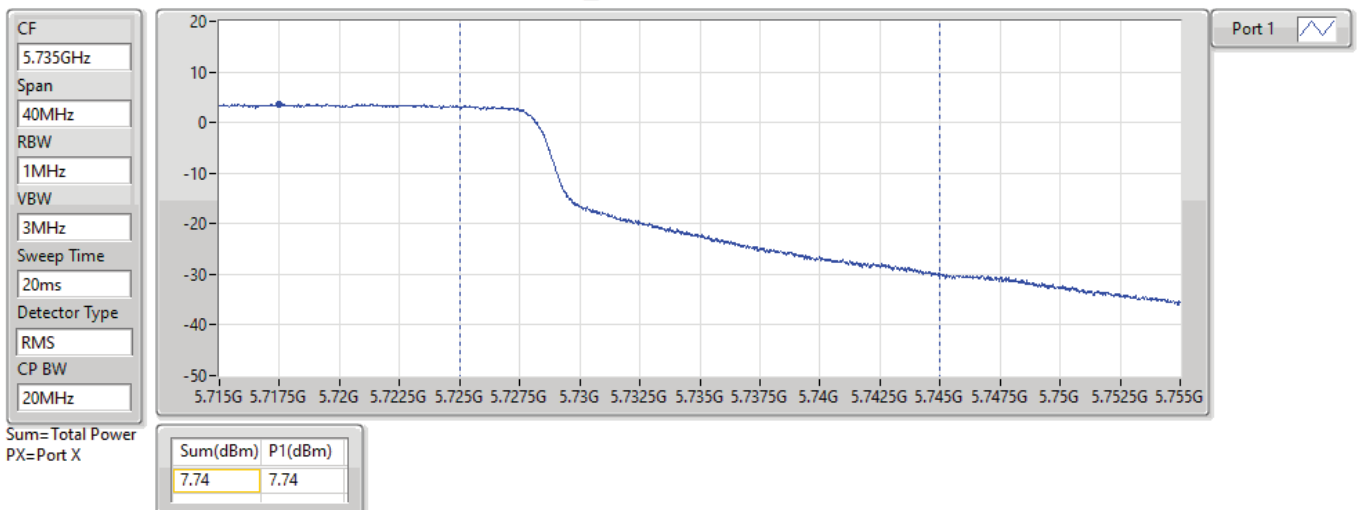


802.11n HT40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

01/07/2021



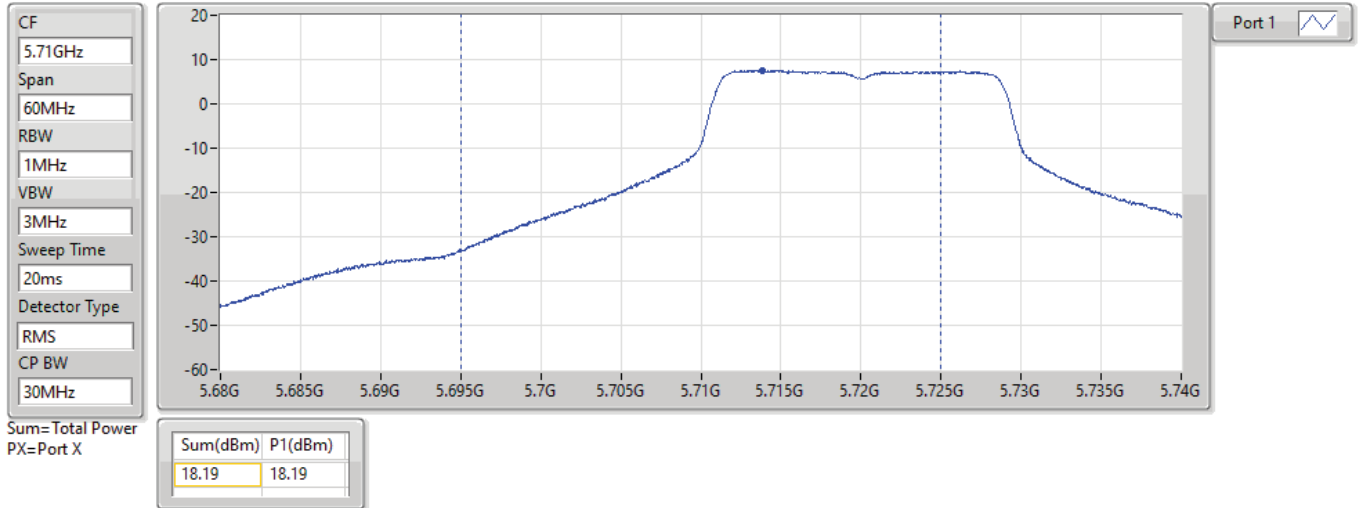


802.11ac VHT20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

01/07/2021

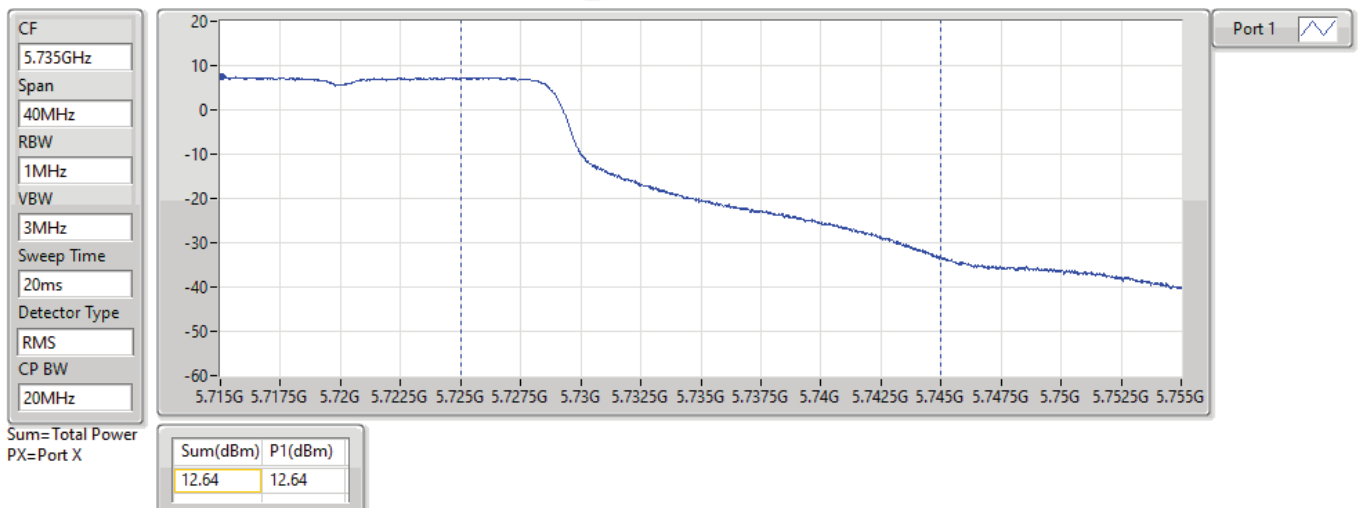


802.11ac VHT20_Nss1,(MCS0)_1TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

01/07/2021

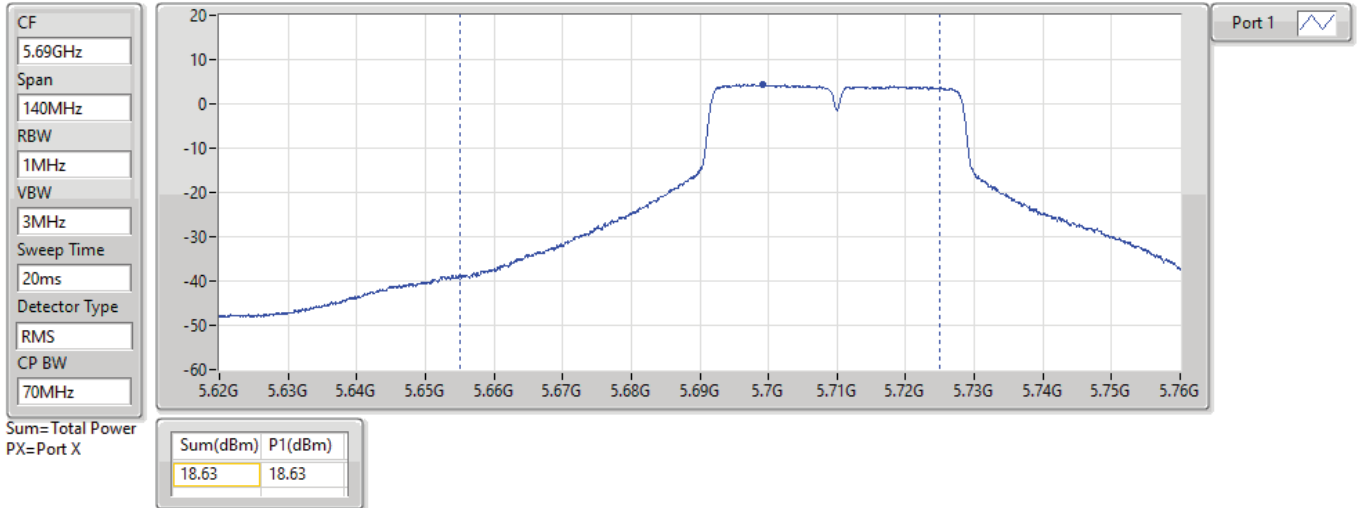


802.11ac VHT40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

01/07/2021

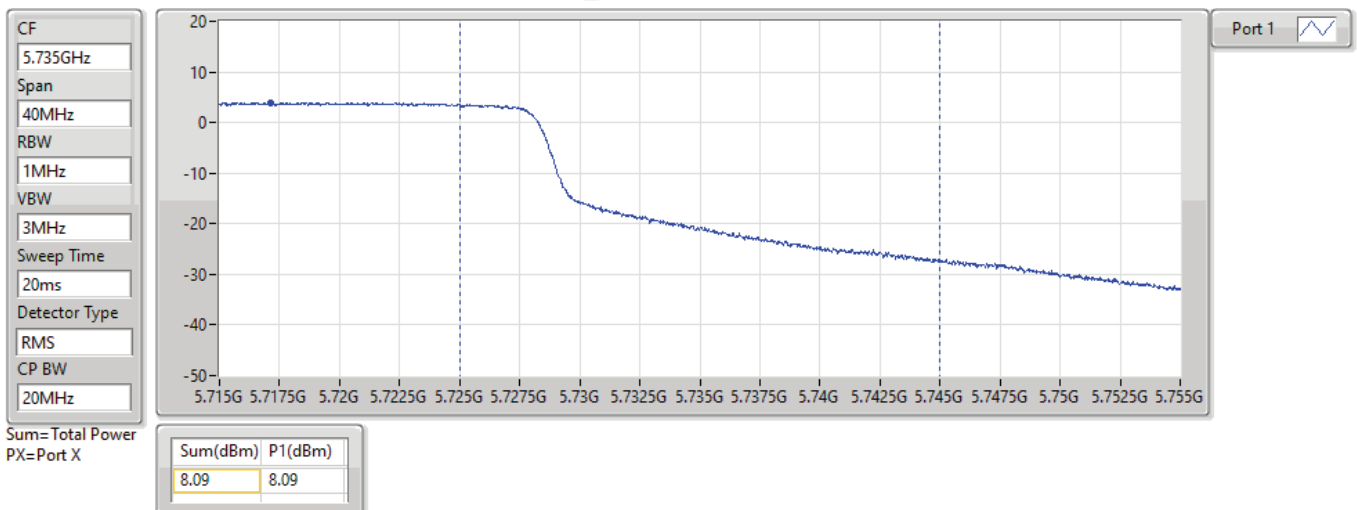


802.11ac VHT40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

01/07/2021

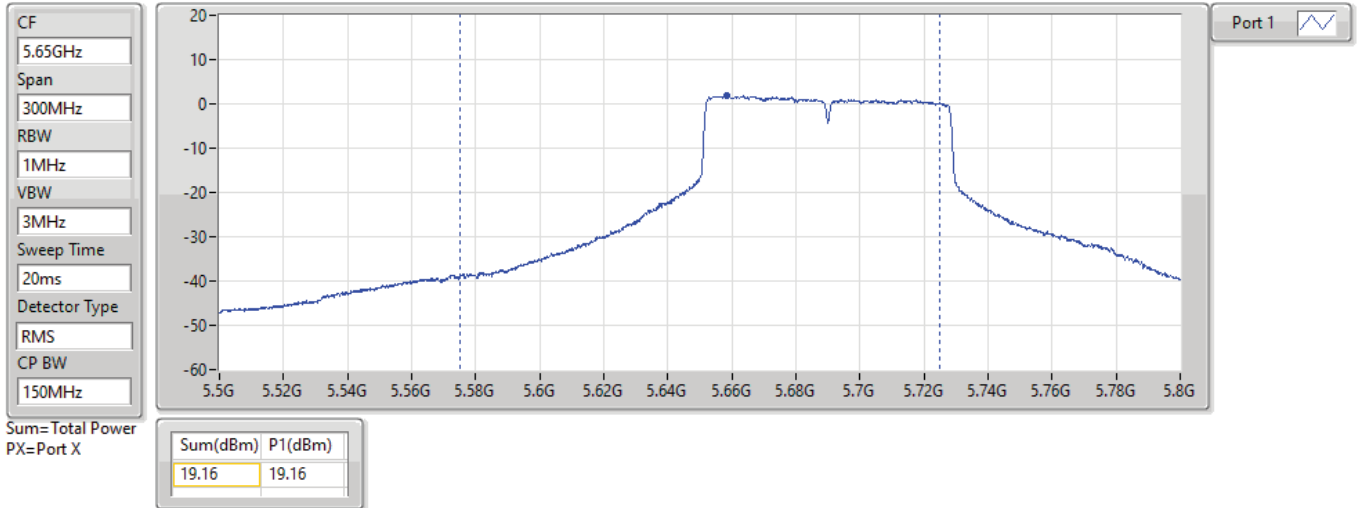


802.11ac VHT80_Nss1,(MCS0)_1TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

01/07/2021

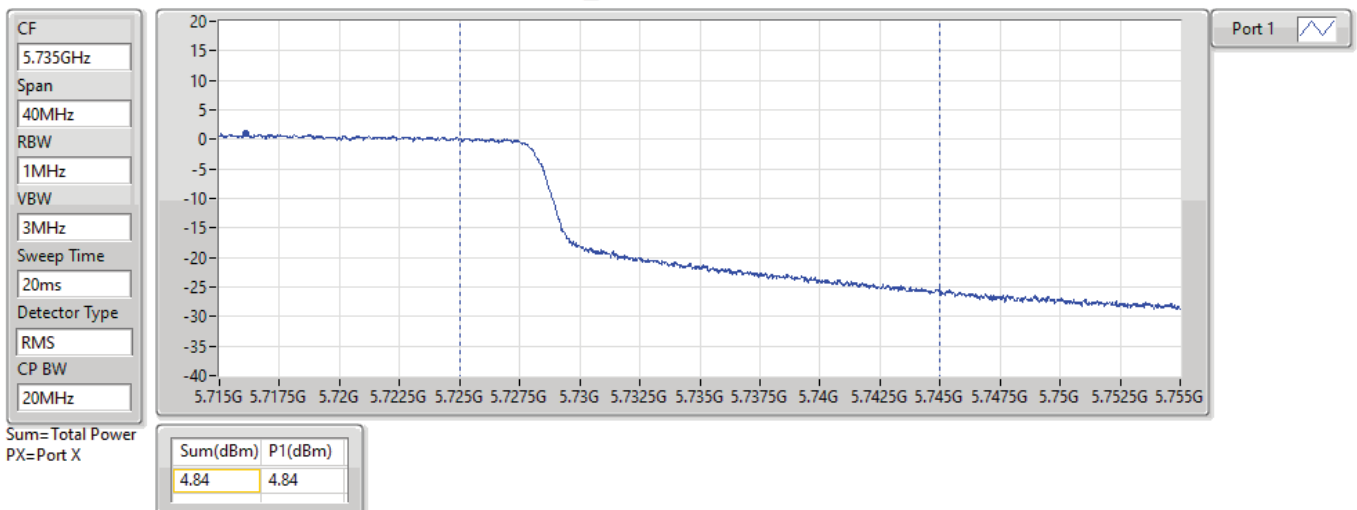


802.11ac VHT80_Nss1,(MCS0)_1TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

01/07/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.27	0.16866	29.45	0.88105
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	21.99	0.15812	29.17	0.82604
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	19.05	0.08035	26.23	0.41976
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.33	0.21528	29.42	0.87498
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.40	0.21878	29.49	0.88920
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.35	0.21627	29.44	0.87902
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	16.14	0.04111	23.58	0.22803
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.05	0.01603	19.49	0.08892
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	8.17	0.00656	15.61	0.03639



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	7.18	16.40	16.21	15.84	16.31	22.22	22.80	29.40	30.00
5300MHz	Pass	7.18	16.51	16.29	16.08	16.09	22.27	22.80	29.45	30.00
5320MHz	Pass	7.18	16.54	16.21	15.94	15.90	22.18	22.80	29.36	30.00
5500MHz	Pass	6.09	14.33	14.45	13.95	15.04	20.48	23.89	26.57	30.00
5580MHz	Pass	6.09	17.33	17.57	16.66	17.60	23.33	23.89	29.42	30.00
5700MHz	Pass	6.09	15.16	15.38	14.90	15.25	21.20	23.89	27.29	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.09	17.19	16.82	15.96	16.98	22.78	23.89	28.87	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.44	10.73	9.75	9.81	10.11	16.14	28.56	23.58	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	7.18	16.09	16.00	15.77	16.01	21.99	22.80	29.17	30.00
5310MHz	Pass	7.18	14.32	14.15	13.87	13.85	20.07	22.80	27.25	30.00
5510MHz	Pass	6.09	14.03	14.13	13.83	14.47	20.14	23.89	26.23	30.00
5550MHz	Pass	6.09	17.24	17.48	16.76	17.67	23.32	23.89	29.41	30.00
5670MHz	Pass	6.09	14.75	15.01	14.83	14.98	20.91	23.89	27.00	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.09	17.40	17.58	17.13	17.41	23.40	23.89	29.49	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.44	6.00	5.82	5.44	6.74	12.05	28.56	19.49	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	7.18	13.11	13.18	12.85	12.97	19.05	22.80	26.23	30.00
5530MHz	Pass	6.09	13.96	14.00	13.44	14.55	20.03	23.89	26.12	30.00
5610MHz	Pass	6.09	15.23	15.35	14.40	15.65	21.20	23.89	27.29	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.09	17.20	17.50	17.14	17.45	23.35	23.89	29.44	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.44	2.40	1.73	1.87	2.53	8.17	28.56	15.61	36.00

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

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW80+80-BF_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)	16.36	0.04325	25.88	0.38726
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	20.44	0.11066	29.45	0.88105
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	20.35	0.10839	29.36	0.86298
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	19.43	0.08770	28.44	0.69823
802.11ax HEW80+80-BF_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)	16.83	0.04819	25.84	0.38371
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	21.37	0.13709	29.32	0.85507
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	21.25	0.13335	29.20	0.83176
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	21.29	0.13459	29.24	0.83946
802.11ax HEW80+80-BF_Nss1,(MCS0)_8TX	20.84	0.12134	28.79	0.75683
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	14.59	0.02877	22.43	0.17498
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	10.10	0.01023	17.94	0.06223
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	7.16	0.00520	15.00	0.03162



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	9.01	10.96	11.74	11.42	11.40	11.70	11.36	11.45	11.20	20.44	20.97	29.45	30.00
5300MHz	Pass	9.01	11.37	11.44	11.19	11.42	11.50	11.13	11.13	11.19	20.33	20.97	29.34	30.00
5320MHz	Pass	9.01	10.97	11.37	11.19	11.42	11.73	11.44	10.77	11.09	20.29	20.97	29.30	30.00
5500MHz	Pass	7.95	12.36	12.20	12.02	12.51	12.28	12.33	12.26	12.17	21.30	22.03	29.25	30.00
5580MHz	Pass	7.95	12.26	12.21	11.98	12.10	12.83	12.13	11.96	11.75	21.19	22.03	29.14	30.00
5700MHz	Pass	7.95	12.31	12.50	12.19	12.26	13.36	12.09	12.50	11.20	21.37	22.03	29.32	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.95	11.30	11.26	10.29	11.30	12.26	10.71	11.12	10.69	20.18	22.03	28.13	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.84	5.57	6.17	5.74	5.91	6.01	4.94	5.01	4.92	14.59	28.16	22.43	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	9.01	11.13	11.51	11.16	11.36	11.72	11.40	10.95	11.30	20.35	20.97	29.36	30.00
5310MHz	Pass	9.01	11.31	11.42	10.98	11.53	11.48	11.35	10.98	11.00	20.29	20.97	29.30	30.00
5510MHz	Pass	7.95	11.65	11.36	10.79	11.66	11.30	11.39	11.26	10.80	20.32	22.03	28.27	30.00
5550MHz	Pass	7.95	12.42	12.25	12.18	12.36	12.25	12.20	12.36	11.72	21.25	22.03	29.20	30.00
5670MHz	Pass	7.95	12.17	12.09	12.15	11.78	12.82	12.30	12.17	10.97	21.11	22.03	29.06	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.95	12.33	12.06	12.23	11.93	12.89	12.10	11.88	10.64	21.08	22.03	29.03	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.84	1.61	-0.12	0.55	1.11	2.72	1.32	1.06	-0.57	10.10	28.16	17.94	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	9.01	10.02	10.64	10.21	10.44	10.26	10.59	10.50	10.47	19.43	20.97	28.44	30.00
5530MHz	Pass	7.95	9.45	9.64	9.88	9.49	9.49	9.64	9.77	9.66	18.66	22.03	26.61	30.00
5610MHz	Pass	7.95	12.44	12.14	12.15	12.41	12.85	12.31	12.22	11.42	21.29	22.03	29.24	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.95	12.33	12.38	12.30	12.08	12.89	11.97	12.59	10.84	21.24	22.03	29.19	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.84	-1.41	-3.00	-1.99	-1.69	-0.70	-2.66	-0.97	-3.30	7.16	28.16	15.00	36.00
802.11ax HEW80+80-BF_Nss1,(MCS0)_4TX(Port1&Port2&Port3&Port4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5210MHz,5290MHz	Pass	9.52	9.88	10.50	10.59	10.35	-3.31	-3.31	-3.31	-3.31	16.36	26.48	25.88	36.00
802.11ax HEW80+80-BF_Nss1,(MCS0)_4TX(Port5&Port6&Port7&Port8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz,#5290MHz	Pass	9.01	-	-	-	-	10.96	10.94	10.62	10.69	16.83	20.97	25.84	30.00
802.11ax HEW80+80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
#5530MHz,#5610MHz	Pass	7.95	11.94	11.87	11.48	12.15	12.26	11.45	11.84	11.37	20.84	22.03	28.79	30.00

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	9.76	16.94
802.11n HT20_Nss1,(MCS0)_4TX	9.51	16.69
802.11n HT40_Nss1,(MCS0)_4TX	6.15	13.33
802.11ac VHT20_Nss1,(MCS0)_4TX	9.12	16.30
802.11ac VHT40_Nss1,(MCS0)_4TX	5.71	12.89
802.11ac VHT80_Nss1,(MCS0)_4TX	-0.78	6.40
802.11ax HEW20_Nss1,(MCS0)_4TX	9.32	16.50
802.11ax HEW40_Nss1,(MCS0)_4TX	5.84	13.02
802.11ax HEW80_Nss1,(MCS0)_4TX	-0.08	7.10
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	10.68	16.77
802.11n HT20_Nss1,(MCS0)_4TX	10.89	16.98
802.11n HT40_Nss1,(MCS0)_4TX	7.45	13.54
802.11ac VHT20_Nss1,(MCS0)_4TX	10.61	16.70
802.11ac VHT40_Nss1,(MCS0)_4TX	7.51	13.60
802.11ac VHT80_Nss1,(MCS0)_4TX	3.50	9.59
802.11ax HEW20_Nss1,(MCS0)_4TX	10.52	16.61
802.11ax HEW40_Nss1,(MCS0)_4TX	7.39	13.48
802.11ax HEW80_Nss1,(MCS0)_4TX	4.15	10.24
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	8.05	15.49
802.11n HT20_Nss1,(MCS0)_4TX	8.55	15.99
802.11n HT40_Nss1,(MCS0)_4TX	5.08	12.52
802.11ac VHT20_Nss1,(MCS0)_4TX	8.67	16.11
802.11ac VHT40_Nss1,(MCS0)_4TX	4.57	12.01
802.11ac VHT80_Nss1,(MCS0)_4TX	0.42	7.86
802.11ax HEW20_Nss1,(MCS0)_4TX	8.54	15.98
802.11ax HEW40_Nss1,(MCS0)_4TX	4.91	12.35
802.11ax HEW80_Nss1,(MCS0)_4TX	0.88	8.32

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	7.18	3.78	3.83	3.79	4.07	9.71	9.82	16.89	17.00
5300MHz	Pass	7.18	4.28	4.22	3.63	4.07	9.76	9.82	16.94	17.00
5320MHz	Pass	7.18	4.11	4.12	3.54	3.82	9.63	9.82	16.81	17.00
5500MHz	Pass	6.09	4.40	4.70	4.05	5.27	10.46	10.91	16.55	17.00
5580MHz	Pass	6.09	4.84	5.28	4.02	5.28	10.68	10.91	16.77	17.00
5700MHz	Pass	6.09	3.45	4.13	2.75	3.79	9.29	10.91	15.38	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.09	4.72	4.36	3.47	4.60	9.90	10.91	15.99	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.44	1.34	2.78	1.65	2.59	8.05	28.56	15.49	36.00
802.11n HT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	7.18	3.58	3.58	3.17	3.66	9.43	9.82	16.61	17.00
5300MHz	Pass	7.18	4.22	3.39	3.26	3.46	9.51	9.82	16.69	17.00
5320MHz	Pass	7.18	4.01	3.49	3.35	2.98	9.35	9.82	16.53	17.00
5500MHz	Pass	6.09	2.89	3.03	2.46	3.49	8.65	10.91	14.74	17.00
5580MHz	Pass	6.09	4.94	5.80	4.94	5.25	10.89	10.91	16.98	17.00
5700MHz	Pass	6.09	3.26	4.06	3.03	3.82	9.23	10.91	15.32	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.09	4.49	4.34	4.07	4.27	10.01	10.91	16.10	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.44	2.72	2.46	2.65	2.69	8.55	28.56	15.99	36.00
802.11n HT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	7.18	0.37	0.42	0.39	0.28	6.15	9.82	13.33	17.00
5310MHz	Pass	7.18	-1.28	-1.47	-2.08	-1.46	4.16	9.82	11.34	17.00
5510MHz	Pass	6.09	-2.31	-2.23	-2.66	-1.94	3.43	10.91	9.52	17.00
5550MHz	Pass	6.09	1.02	1.07	0.79	1.34	6.61	10.91	12.70	17.00
5670MHz	Pass	6.09	-1.55	-1.52	-1.76	-1.31	3.96	10.91	10.05	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.09	2.12	2.37	2.05	2.08	7.45	10.91	13.54	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.44	-0.22	-1.23	-2.13	-0.20	5.08	28.56	12.52	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	7.18	3.40	3.02	2.94	3.50	9.12	9.82	16.30	17.00
5300MHz	Pass	7.18	3.75	3.28	3.21	2.99	9.07	9.82	16.25	17.00
5320MHz	Pass	7.18	3.68	3.33	2.99	2.82	9.10	9.82	16.28	17.00
5500MHz	Pass	6.09	0.80	1.04	0.45	1.55	6.70	10.91	12.79	17.00
5580MHz	Pass	6.09	4.31	4.56	3.58	4.53	10.16	10.91	16.25	17.00
5700MHz	Pass	6.09	1.24	2.11	1.03	1.83	7.31	10.91	13.40	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.09	4.92	5.08	4.87	4.74	10.61	10.91	16.70	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.44	2.64	2.87	2.89	2.97	8.67	28.56	16.11	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	7.18	0.02	0.21	-0.17	0.18	5.71	9.82	12.89	17.00
5310MHz	Pass	7.18	-1.79	-1.66	-2.50	-2.04	3.83	9.82	11.01	17.00
5510MHz	Pass	6.09	-2.08	-2.04	-2.61	-1.91	3.58	10.91	9.67	17.00
5550MHz	Pass	6.09	0.92	1.14	0.84	1.54	6.75	10.91	12.84	17.00
5670MHz	Pass	6.09	-1.56	-1.44	-1.50	-1.36	3.99	10.91	10.08	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.09	2.12	2.23	2.00	2.10	7.51	10.91	13.60	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.44	-0.59	-1.71	-2.54	-0.69	4.57	28.56	12.01	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	7.18	-6.32	-6.46	-6.62	-6.51	-0.78	9.82	6.40	17.00
5530MHz	Pass	6.09	-5.80	-5.64	-6.25	-5.36	-0.06	10.91	6.03	17.00
5610MHz	Pass	6.09	-4.17	-4.01	-5.25	-4.18	1.42	10.91	7.51	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.09	-2.00	-1.83	-2.28	-1.92	3.50	10.91	9.59	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.44	-4.83	-5.73	-6.56	-5.00	0.42	28.56	7.86	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	7.18	3.39	3.47	2.87	3.63	9.13	9.82	16.31	17.00
5300MHz	Pass	7.18	3.65	3.30	3.20	3.40	9.32	9.82	16.50	17.00
5320MHz	Pass	7.18	3.66	3.09	2.97	3.11	8.99	9.82	16.17	17.00
5500MHz	Pass	6.09	0.56	1.10	0.50	1.32	6.64	10.91	12.73	17.00
5580MHz	Pass	6.09	4.04	4.25	3.43	4.01	9.40	10.91	15.49	17.00



PSD_Non-Beamforming_Radio 1_4T1S

Appendix C.1

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5700MHz	Pass	6.09	1.62	1.93	1.46	1.63	7.31	10.91	13.40	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.09	5.21	4.94	4.27	4.83	10.52	10.91	16.61	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.44	2.91	2.75	2.25	2.90	8.54	28.56	15.98	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	7.18	0.26	0.15	-0.01	0.15	5.84	9.82	13.02	17.00
5310MHz	Pass	7.18	-1.47	-2.05	-2.23	-2.15	3.89	9.82	11.07	17.00
5510MHz	Pass	6.09	-2.32	-2.41	-2.75	-1.93	3.40	10.91	9.49	17.00
5550MHz	Pass	6.09	0.95	0.91	0.65	1.36	6.55	10.91	12.64	17.00
5670MHz	Pass	6.09	-1.70	-1.63	-1.43	-1.40	3.90	10.91	9.99	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.09	1.91	2.18	1.97	1.83	7.39	10.91	13.48	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.44	-0.42	-1.34	-1.62	-0.53	4.91	28.56	12.35	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	7.18	-5.79	-5.72	-6.03	-5.90	-0.08	9.82	7.10	17.00
5530MHz	Pass	6.09	-5.10	-5.09	-5.68	-4.69	0.59	10.91	6.68	17.00
5610MHz	Pass	6.09	-3.57	-3.62	-4.69	-3.53	1.84	10.91	7.93	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.09	-1.49	-1.08	-1.53	-1.59	4.15	10.91	10.24	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.44	-4.57	-5.34	-5.41	-4.46	0.88	28.56	8.32	36.00

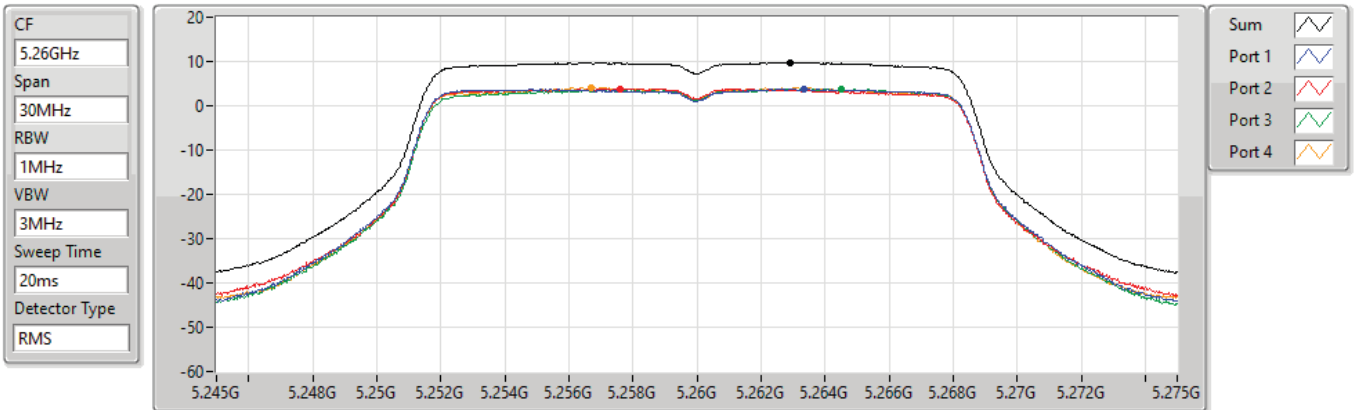
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5260MHz

04/06/2021



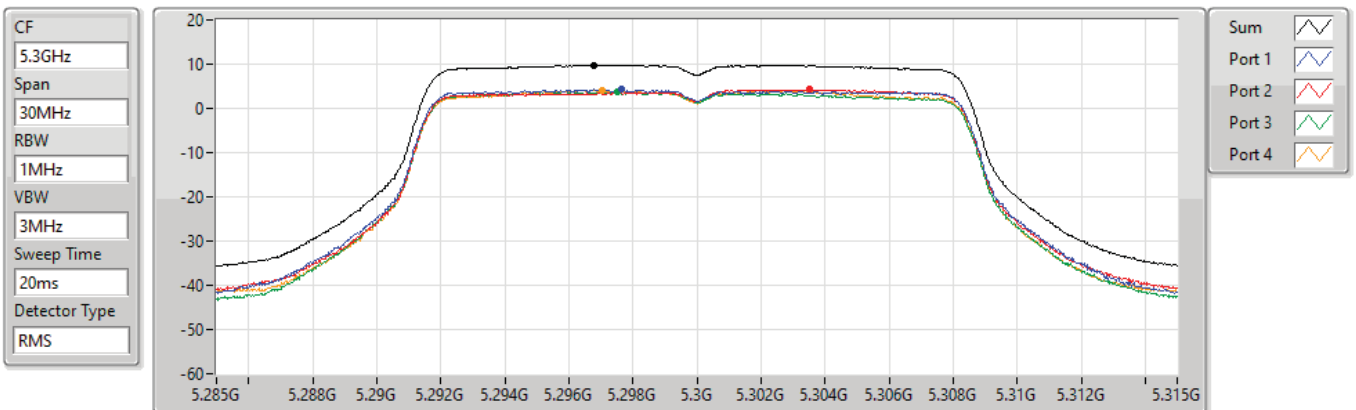
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.71	9.71	3.78	3.83	3.79	4.07

802.11a_Nss1,(6Mbps)_4TX

PSD

5300MHz

04/06/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.76	9.76	4.28	4.22	3.63	4.07