



FCC RADIO TEST REPORT

FCC ID : RAXG3100
Equipment : Fios Home Router, Fios Business Router
Brand Name : Verizon
Model Name : G3100
Applicant : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Manufacturer : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Apr. 01, 2019, and testing was started from Apr. 02, 2019 and completed on Jun. 04, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	10
1.3 Testing Location Information	10
1.4 Measurement Uncertainty	10
2 Test Configuration of EUT	11
2.1 Test Channel Mode	11
2.2 The Worst Case Measurement Configuration.....	15
2.3 EUT Operation during Test	16
2.4 Accessories	16
2.5 Support Equipment.....	17
2.6 Test Setup Diagram	18
3 Transmitter Test Result	20
3.1 Emission Bandwidth	20
3.2 Maximum Conducted Output Power	22
3.3 Peak Power Spectral Density.....	24
3.4 Unwanted Emissions.....	27
4 Test Equipment and Calibration Data	30
Appendix A. Test Results of Emission Bandwidth	
Appendix B. Test Results of Maximum Conducted Output Power	
Appendix C. Test Results of Peak Power Spectral Density	
Appendix D. Test Results of Unwanted Emissions	
Appendix E. Test Photos	
Appendix F. Photographs of EUT	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-
Note: Reference to Sporton Project No.: 932731				

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

Reviewed by: Sam Chen

Report Producer: Emily Chen



1 General Description

1.1 Information

1.1.1 RF General Information

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

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



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

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

**1.1.2 Antenna Information****For WLAN and Bluetooth Antenna:**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)			
						WLAN 2.4GHz	5GHz B1, B2	5GHz B3, B4	BT
1	4	Arcadyan	-	Monopole	N/A	2.2	0.4	-	-
2	2	Arcadyan	12080073700J	PCB	I-PEX	0.3	1.2	-	-
3	3	Arcadyan	12080073800J	PCB	I-PEX	2.49	0.9	-	-
4	1	Arcadyan	12080073900J	PCB	I-PEX	1.7	2.48	-	-
5	3	Arcadyan	12080073400J	PCB	I-PEX	-	-	0.7	-
6	2	Arcadyan	12080073300J	PCB	I-PEX	-	-	1.3	-
7	1	Arcadyan	12080073600J	PCB	I-PEX	-	-	0.4	-
8	4	Arcadyan	12080073500J	PCB	I-PEX	-	-	1.6	-
9	1	Arcadyan	-	PIFA	N/A	-	-	-	-0.85

For Zigbee and Z-wave Antenna:

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						Zigbee	Z-wave
10	1	Arcadyan	-	PIFA	N/A	4.4	-
11	1	Arcadyan	-	PIFA	N/A	-	0.7

Note: The above information was declared by manufacturer.

<For WLAN 2.4GHz Function>**For IEEE 802.11b mode (1TX/1RX):**

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

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

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

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

<For WLAN 5GHz Function>**For IEEE 802.11a/n/ac mode (4TX/4RX):**

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

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

<For Bluetooth Function>**For Bluetooth mode (1TX/1RX)**

Only Port 1 can be use as transmit and receive antenna.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.953	0.209	2.068m	1k
802.11ac VHT20	0.99	0.044	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20-BF	0.99	0.044	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20	0.981	0.083	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20-BF	0.984	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.974	0.114	5.007m	300
802.11ac VHT40-BF	0.974	0.114	5.007m	300
802.11ax HEW40	0.961	0.173	773.75u	3k
802.11ax HEW40-BF	0.958	0.186	4.36m	300
802.11ac VHT80	0.942	0.259	5.007m	300
802.11ac VHT80-BF	0.942	0.259	5.007m	300
802.11ax HEW80	0.931	0.311	401.25u	3k
802.11ax HEW80-BF	0.94	0.269	4.51m	300
802.11ac VHT160	0.916	0.381	5.007m	300
802.11ac VHT160-BF	0.954	0.205	4.338m	300
802.11ax HEW160	0.916	0.381	5.007m	300
802.11ax HEW160-BF	0.954	0.205	4.338m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/11ax in 2.4GHz and 11n/11ac/11ax in 5GHz.			
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
TPC Function	☒	With TPC	☐	Without TPC
Test Software Version	MTool 3.1.0.1			

Note: The above information was declared by manufacturer.



1.1.5 Table for Multiple Listing

The equipment names in the following table are all refer to the identical product.

Equipment Name	Model Name	Description
Fios Home Router	G3100	All the equipments are identical, the difference equipment name served as marketing strategy.
Fios Business Router		

1.1.6 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR932731AB

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

Modifications	Performance Checking
- Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device. - Adding 802.11ac160MHz and 802.11ax 160MHz Mode.	- Emission Bandwidth. - Maximum Conducted Output Power. - Peak Power Spectral Density. - Unwanted Emissions Radiated Emission >1GHz.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Serway Li	24~26°C / 57~59%	May 02, 2019~Jun. 04, 2019
Radiated	03CH06-CB	Stim Sung	22~24°C / 50~60%	Apr. 02, 2019~Jun. 04, 2019

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086B with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	71
5300MHz	72
5320MHz	73
5500MHz	73
5580MHz	71
5700MHz	69
5720MHz Straddle 5.47-5.725GHz	71
5720MHz Straddle 5.725-5.85GHz	71
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5260MHz	72
5300MHz	73
5320MHz	74
5500MHz	73
5580MHz	71
5700MHz	54
5720MHz Straddle 5.47-5.725GHz	74
5720MHz Straddle 5.725-5.85GHz	74
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5260MHz	72
5300MHz	73
5320MHz	74
5500MHz	73
5580MHz	71
5700MHz	54
5720MHz Straddle 5.47-5.725GHz	74
5720MHz Straddle 5.725-5.85GHz	74
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5270MHz	72
5310MHz	74
5510MHz	72
5550MHz	71
5670MHz	73
5710MHz Straddle 5.47-5.725GHz	75
5710MHz Straddle 5.725-5.85GHz	75
802.11ax HEW40_Nss1,(MCS0)_4TX	-



Mode	Power Setting
5270MHz	72
5310MHz	74
5510MHz	72
5550MHz	71
5670MHz	73
5710MHz Straddle 5.47-5.725GHz	75
5710MHz Straddle 5.725-5.85GHz	75
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5290MHz	72
5530MHz	71
5610MHz	74
5690MHz Straddle 5.47-5.725GHz	73
5690MHz Straddle 5.725-5.85GHz	73
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5290MHz	72
5530MHz	71
5610MHz	74
5690MHz Straddle 5.47-5.725GHz	73
5690MHz Straddle 5.725-5.85GHz	73
802.11ac VHT160_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	65
5250MHz Straddle 5.25-5.35GHz	65
5570MHz	68
802.11ax HEW160_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	65
5250MHz Straddle 5.25-5.35GHz	65
5570MHz	68
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5260MHz	68
5300MHz	69
5320MHz	70
5500MHz	70
5580MHz	68
5700MHz	65
5720MHz Straddle 5.47-5.725GHz	71
5720MHz Straddle 5.725-5.85GHz	71
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	68
5300MHz	69
5320MHz	70



Mode	Power Setting
5500MHz	70
5580MHz	68
5700MHz	65
5720MHz Straddle 5.47-5.725GHz	71
5720MHz Straddle 5.725-5.85GHz	71
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5270MHz	67
5310MHz	69
5510MHz	67
5550MHz	67
5670MHz	69
5710MHz Straddle 5.47-5.725GHz	70
5710MHz Straddle 5.725-5.85GHz	70
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	67
5310MHz	69
5510MHz	67
5550MHz	67
5670MHz	69
5710MHz Straddle 5.47-5.725GHz	70
5710MHz Straddle 5.725-5.85GHz	70
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5290MHz	69
5530MHz	63
5610MHz	70
5690MHz Straddle 5.47-5.725GHz	70
5690MHz Straddle 5.725-5.85GHz	70
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	69
5530MHz	63
5610MHz	70
5690MHz Straddle 5.47-5.725GHz	70
5690MHz Straddle 5.725-5.85GHz	70
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	69
5250MHz Straddle 5.25-5.35GHz	69
5570MHz	67
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	69
5250MHz Straddle 5.25-5.35GHz	69



Mode	Power Setting
5570MHz	67

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- ♦ There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode for 11n/VHT/11ax in 2.4GHz and 11n/11ac/11ax in 5GHz. Both modes have been tested and recorded in this test report.



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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz Band 1, 2 + WLAN 5GHz Band 3, 4 + Bluetooth + Z-wave
2	WLAN 2.4GHz + WLAN 5GHz Band 1, 2 + WLAN 5GHz Band 3, 4 + Zigbee + Z-wave
Refer to Sporton Test Report No.: FA932731-01 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at Y axis position.



2.3 EUT Operation during Test

For CTX Mode:

For non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by WLAN AP and transmit duty cycle no less than 98%.

2.4 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	Adapter 1	LEI	ML42AY120350-A1	INPUT: 105-125V ~ 60Hz, 1.5A OUTPUT: 12V, 3.5A
2	Adapter 2	Delta	ADH-42AW B	INPUT: 105-125V ~ 60Hz, 1.2A OUTPUT: 12V, 3.5A
No.	Other			
3	RJ-45 cable	Non-shielded: 3m		



2.5 Support Equipment

For RF Conducted

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

Radiated (above 1GHz)

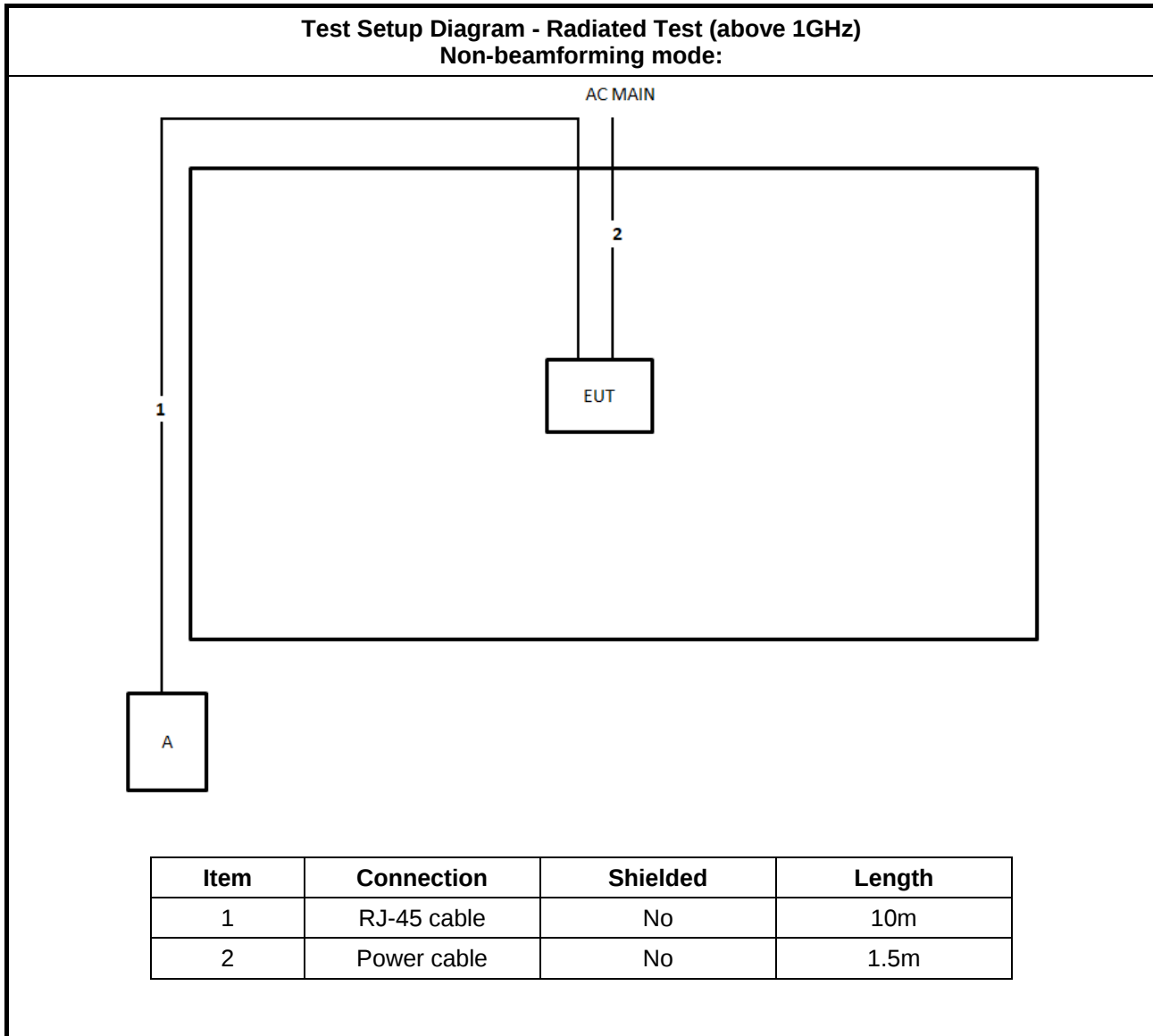
Non-beamforming mode:

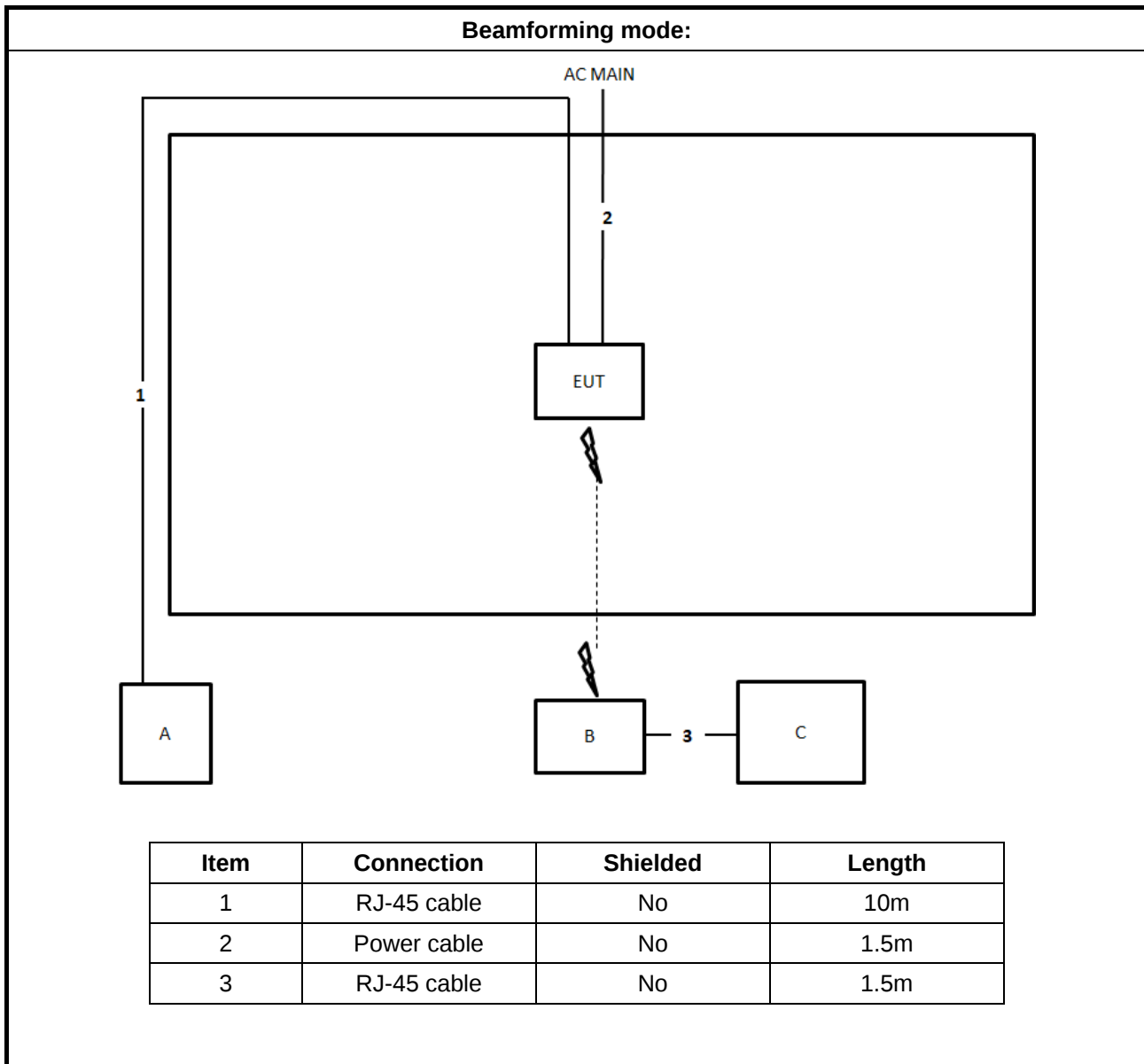
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

Beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	WLAN AP	ASUS	RT-AC88U/RT-AX88U	N/A
C	NB	DELL	E4300	N/A

2.6 Test Setup Diagram





3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

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

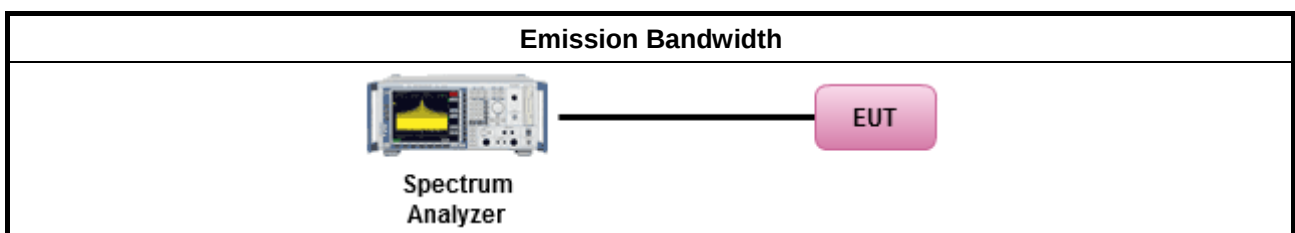
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.1.4 Test Setup





3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum 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.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
☐ For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.2.2 Measuring Instruments

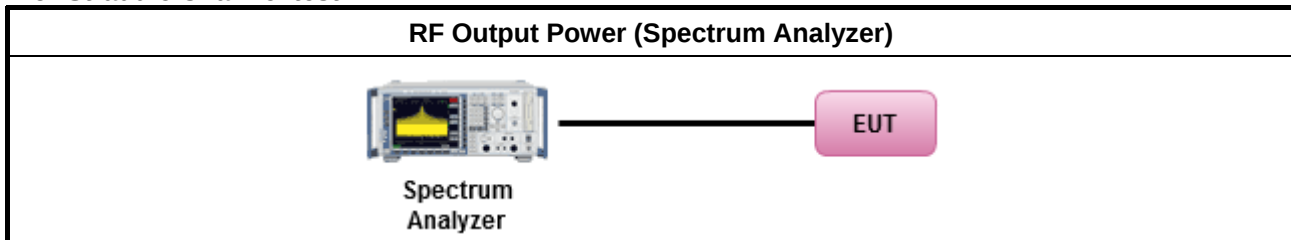
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

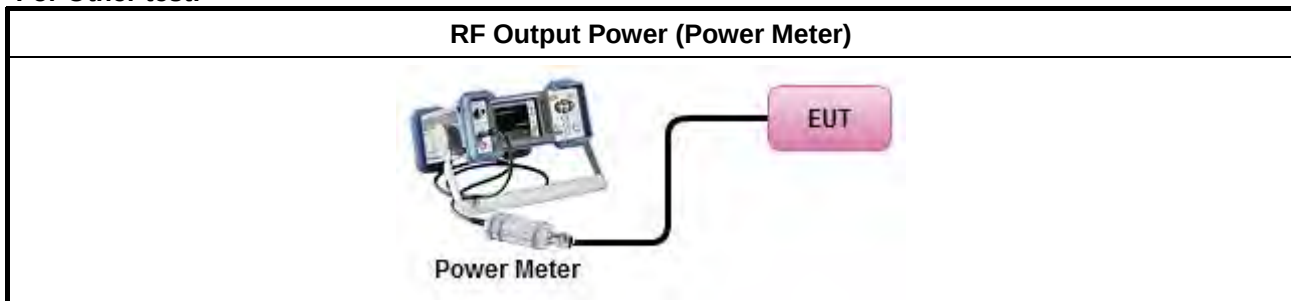
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off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

3.2.4 Test Setup

For Straddle Channel test:



For Other test:



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.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

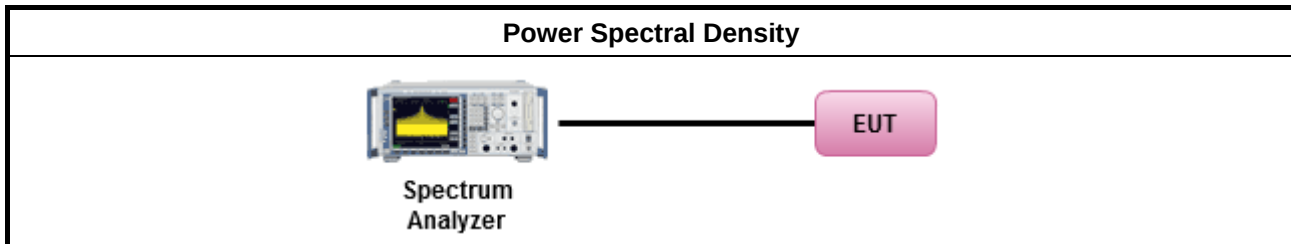
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

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 Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.



Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.4.2 Measuring Instruments

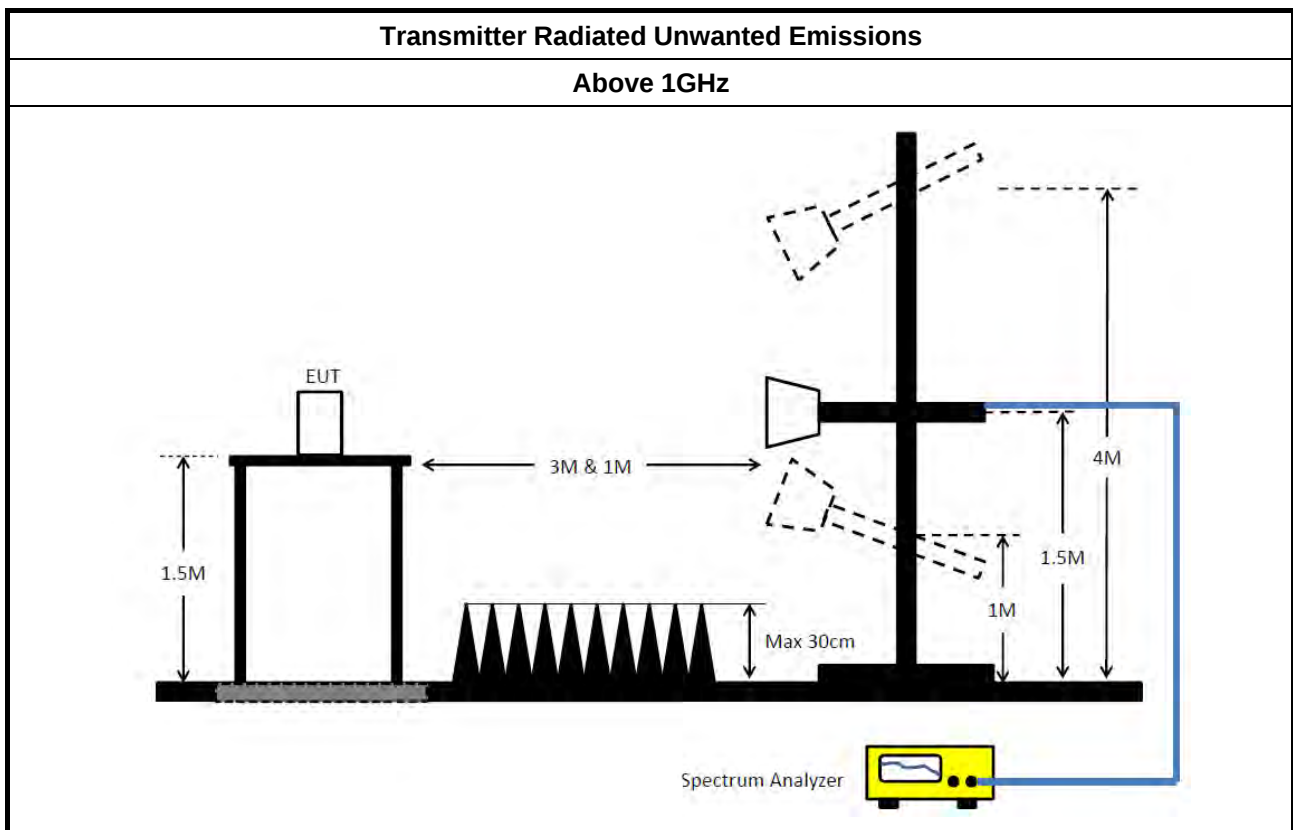
Refer a test equipment and calibration data table in this test report.

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 FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.

Test Method	
For radiated measurement.	
	- Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. - Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.4.4 Test Setup



3.4.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 20, 2018	Jul. 19, 2019	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 07, 2018	Jun. 06, 2019	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 09, 2018	May 08, 2019	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 08, 2019	May 07, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz ~ 26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT160_Nss1,(MCS0)_4TX	81.12M	75.816M	75M8D1D	80.72M	75.392M
802.11ax HEW160_Nss1,(MCS0)_4TX	81.2M	77.161M	77M2D1D	80.48M	77.001M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	81.44M	76.051M	76M1D1D	80.88M	75.339M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.28M	77.081M	77M1D1D	80.48M	77.001M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.7M	16.642M	16M6D1D	21.4M	16.542M
802.11ac VHT20_Nss1,(MCS0)_4TX	21.875M	17.816M	17M8D1D	21.45M	17.741M
802.11ax HEW20_Nss1,(MCS0)_4TX	22.625M	19.015M	19M0D1D	21.5M	18.941M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.25M	36.332M	36M3D1D	39.65M	36.182M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.2M	37.631M	37M6D1D	39.75M	37.481M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.2M	75.762M	75M8D1D	81.3M	75.662M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.1M	77.261M	77M3D1D	82M	76.962M
802.11ac VHT160_Nss1,(MCS0)_4TX	82.96M	75.919M	75M9D1D	80.48M	75.617M
802.11ax HEW160_Nss1,(MCS0)_4TX	81.44M	77.241M	77M2D1D	80.88M	77.001M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.775M	17.816M	17M8D1D	21.425M	17.741M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.725M	19.015M	19M0D1D	21.375M	18.941M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.25M	36.282M	36M3D1D	39.65M	36.182M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.1M	37.581M	37M6D1D	39.8M	37.481M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	82.2M	75.862M	75M9D1D	81.3M	75.562M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.3M	77.161M	77M2D1D	81.8M	76.962M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	83.2M	75.847M	75M8D1D	80.72M	75.52M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.6M	77.081M	77M1D1D	80.88M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.675M	16.617M	16M6D1D	15.645M	13.328M
802.11ac VHT20_Nss1,(MCS0)_4TX	21.8M	17.791M	17M8D1D	15.78M	13.928M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.775M	19.015M	19M0D1D	15.69M	14.498M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.3M	36.332M	36M3D1D	34.86M	33.058M
802.11ax HEW40_Nss1,(MCS0)_4TX	40.15M	37.631M	37M6D1D	34.965M	33.618M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.2M	75.862M	75M9D1D	75.675M	72.564M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.1M	77.161M	77M2D1D	75.75M	73.013M
802.11ac VHT160_Nss1,(MCS0)_4TX	165M	154.387M	154MD1D	163.2M	153.317M
802.11ax HEW160_Nss1,(MCS0)_4TX	164.2M	155.122M	155MD1D	163.4M	154.723M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.825M	17.816M	17M8D1D	15.75M	13.928M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.85M	19.015M	19M0D1D	15.69M	14.513M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.35M	36.382M	36M4D1D	34.825M	32.989M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.15M	37.631M	37M6D1D	34.93M	33.618M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	82M	75.762M	75M8D1D	75.525M	72.339M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.3M	77.161M	77M2D1D	75.675M	73.163M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	164.2M	154.876M	155MD1D	163M	154.005M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	164M	155.122M	155MD1D	163.4M	154.523M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.1M	3.898M	3M90D1D	3.1M	3.818M
802.11ac VHT20_Nss1,(MCS0)_4TX	3.72M	4.238M	4M24D1D	3.7M	4.158M

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0)_4TX	4.46M	4.478M	4M48D1D	4.4M	4.458M
802.11ac VHT40_Nss1,(MCS0)_4TX	3.1M	3.578M	3M58D1D	3.08M	3.418M
802.11ax HEW40_Nss1,(MCS0)_4TX	3.7M	3.998M	4M00D1D	3.62M	3.978M
802.11ac VHT80_Nss1,(MCS0)_4TX	3.08M	3.598M	3M60D1D	2.88M	3.438M
802.11ax HEW80_Nss1,(MCS0)_4TX	3.78M	4.018M	4M02D1D	3.68M	3.998M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	3.74M	4.238M	4M24D1D	3.7M	4.158M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.42M	4.498M	4M50D1D	4.36M	4.458M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	3.12M	3.478M	3M48D1D	3.08M	3.438M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	3.78M	3.998M	4M00D1D	3.72M	3.998M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	3.08M	3.558M	3M56D1D	3.08M	3.438M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.76M	3.998M	4M00D1D	3.68M	3.978M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.4M	16.592M	21.675M	16.592M	21.65M	16.567M	21.475M	16.567M
5300MHz	Pass	Inf	21.425M	16.642M	21.675M	16.567M	21.5M	16.617M	21.5M	16.542M
5320MHz	Pass	Inf	21.425M	16.567M	21.7M	16.567M	21.525M	16.617M	21.575M	16.542M
5500MHz	Pass	Inf	21.4M	16.567M	21.6M	16.567M	21.675M	16.592M	21.525M	16.517M
5580MHz	Pass	Inf	21.4M	16.592M	21.6M	16.617M	21.6M	16.592M	21.5M	16.592M
5700MHz	Pass	Inf	21.375M	16.617M	21.625M	16.567M	21.525M	16.617M	21.45M	16.592M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.645M	13.328M	15.705M	13.343M	15.78M	13.358M	15.645M	13.328M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.838M	3.1M	3.818M	3.1M	3.898M	3.1M	3.858M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.7M	17.791M	21.875M	17.741M	21.45M	17.741M	21.725M	17.741M
5300MHz	Pass	Inf	21.775M	17.741M	21.85M	17.741M	21.45M	17.766M	21.675M	17.741M
5320MHz	Pass	Inf	21.825M	17.791M	21.525M	17.766M	21.45M	17.766M	21.6M	17.816M
5500MHz	Pass	Inf	21.725M	17.741M	21.55M	17.766M	21.45M	17.791M	21.675M	17.741M
5580MHz	Pass	Inf	21.6M	17.766M	21.5M	17.766M	21.575M	17.791M	21.575M	17.766M
5700MHz	Pass	Inf	21.8M	17.791M	21.525M	17.741M	21.45M	17.766M	21.725M	17.766M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.84M	13.928M	15.87M	13.928M	15.78M	13.943M	15.81M	13.928M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.72M	4.178M	3.7M	4.238M	3.7M	4.158M	3.7M	4.178M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.7M	18.991M	21.6M	18.941M	21.675M	18.941M	21.75M	18.966M
5300MHz	Pass	Inf	22.625M	18.991M	21.575M	18.991M	21.65M	18.966M	21.625M	18.966M
5320MHz	Pass	Inf	21.6M	18.991M	21.5M	18.966M	21.675M	19.015M	21.675M	18.991M
5500MHz	Pass	Inf	21.725M	18.966M	21.575M	18.941M	21.725M	18.966M	21.65M	19.015M
5580MHz	Pass	Inf	21.7M	18.966M	21.525M	18.991M	21.625M	18.991M	21.775M	18.941M
5700MHz	Pass	Inf	21.75M	18.991M	21.65M	18.966M	21.65M	18.941M	21.775M	18.966M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.78M	14.498M	15.69M	14.558M	15.81M	14.528M	15.72M	14.498M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.4M	4.478M	4.4M	4.458M	4.42M	4.478M	4.46M	4.478M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.2M	36.232M	39.95M	36.182M	40M	36.232M	39.65M	36.232M
5310MHz	Pass	Inf	40.25M	36.232M	39.9M	36.332M	40M	36.282M	39.8M	36.232M
5510MHz	Pass	Inf	40.2M	36.232M	39.85M	36.232M	40.1M	36.232M	39.7M	36.132M
5550MHz	Pass	Inf	40.2M	36.282M	39.85M	36.332M	39.95M	36.232M	39.8M	36.282M
5670MHz	Pass	Inf	40.3M	36.232M	39.95M	36.282M	40M	36.232M	39.8M	36.232M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.175M	33.058M	34.895M	33.128M	35.07M	33.058M	34.86M	33.058M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.478M	3.1M	3.478M	3.1M	3.578M	3.08M	3.418M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	39.75M	37.481M	39.85M	37.531M	40.05M	37.481M	40.15M	37.581M
5310MHz	Pass	Inf	40.2M	37.581M	39.85M	37.631M	40.1M	37.531M	40.15M	37.581M
5510MHz	Pass	Inf	40.05M	37.531M	39.8M	37.481M	40.05M	37.531M	39.95M	37.531M
5550MHz	Pass	Inf	40.05M	37.581M	39.85M	37.631M	40.05M	37.631M	40.1M	37.531M
5670MHz	Pass	Inf	40.05M	37.631M	39.9M	37.581M	40.15M	37.631M	40.15M	37.531M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35M	33.618M	34.965M	33.653M	35.14M	33.653M	35.14M	33.688M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	3.978M	3.64M	3.998M	3.68M	3.998M	3.62M	3.998M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-

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)
5290MHz	Pass	Inf	82.2M	75.762M	81.3M	75.762M	81.4M	75.662M	81.9M	75.762M
5530MHz	Pass	Inf	82M	75.662M	81.2M	75.462M	81.1M	75.762M	81.8M	75.862M
5610MHz	Pass	Inf	82.2M	75.762M	81.1M	75.662M	81.1M	75.562M	81.7M	75.562M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.05M	72.564M	75.75M	72.639M	75.675M	72.564M	75.825M	72.564M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.598M	3.06M	3.498M	2.88M	3.598M	3.08M	3.438M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.1M	77.161M	82M	77.161M	82M	76.962M	82M	77.261M
5530MHz	Pass	Inf	82.1M	76.962M	82.1M	77.061M	81.8M	77.061M	81.6M	76.962M
5610MHz	Pass	Inf	82M	77.061M	82M	77.161M	81.9M	76.962M	81.6M	76.962M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.975M	73.238M	76.125M	73.238M	76.275M	73.163M	75.75M	73.013M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	3.998M	3.78M	4.018M	3.68M	3.998M	3.74M	3.998M
802.11ac VHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.96M	75.392M	80.72M	75.621M	81.04M	75.811M	81.12M	75.816M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.12M	75.682M	82.96M	75.818M	80.48M	75.617M	80.8M	75.919M
5570MHz	Pass	Inf	163.2M	154.387M	163.6M	153.995M	163.6M	153.317M	165M	154.137M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.8M	77.001M	80.48M	77.161M	81.2M	77.081M	81.2M	77.001M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.2M	77.001M	81.44M	77.241M	81.04M	77.081M	80.88M	77.161M
5570MHz	Pass	Inf	163.4M	154.723M	163.6M	155.122M	164.2M	155.122M	164M	155.122M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.725M	17.766M	21.75M	17.766M	21.425M	17.766M	21.6M	17.741M
5300MHz	Pass	Inf	21.775M	17.741M	21.675M	17.766M	21.45M	17.791M	21.65M	17.766M
5320MHz	Pass	Inf	21.775M	17.741M	21.625M	17.766M	21.5M	17.816M	21.6M	17.791M
5500MHz	Pass	Inf	21.75M	17.766M	21.5M	17.766M	21.725M	17.741M	21.75M	17.766M
5580MHz	Pass	Inf	21.825M	17.791M	21.475M	17.791M	21.6M	17.766M	21.625M	17.791M
5700MHz	Pass	Inf	21.675M	17.816M	21.5M	17.766M	21.425M	17.766M	21.675M	17.766M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.885M	13.928M	15.795M	13.928M	15.765M	13.958M	15.75M	13.943M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	4.198M	3.74M	4.158M	3.74M	4.238M	3.7M	4.178M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	21.525M	18.966M	21.575M	18.941M	21.6M	18.966M	21.675M	18.966M
5300MHz	Pass	Inf	21.725M	18.966M	21.375M	19.015M	21.6M	18.941M	21.725M	19.015M
5320MHz	Pass	Inf	21.65M	18.991M	21.525M	18.966M	21.575M	18.991M	21.65M	18.966M
5500MHz	Pass	Inf	21.675M	18.991M	21.75M	18.991M	21.65M	18.966M	21.85M	18.966M
5580MHz	Pass	Inf	21.675M	19.015M	21.475M	18.966M	21.65M	18.991M	21.775M	18.966M
5700MHz	Pass	Inf	21.675M	18.941M	21.75M	18.991M	21.65M	18.966M	21.525M	18.991M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.765M	14.558M	15.69M	14.513M	15.795M	14.528M	15.735M	14.543M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.38M	4.458M	4.42M	4.458M	4.36M	4.498M	4.42M	4.478M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.1M	36.232M	39.75M	36.282M	40.05M	36.182M	39.75M	36.182M
5310MHz	Pass	Inf	40.25M	36.182M	39.85M	36.232M	40.1M	36.282M	39.65M	36.232M
5510MHz	Pass	Inf	40.25M	36.232M	40M	36.232M	40M	36.282M	39.75M	36.282M
5550MHz	Pass	Inf	40.3M	36.282M	39.8M	36.282M	40.1M	36.332M	39.85M	36.182M
5670MHz	Pass	Inf	40.35M	36.182M	39.95M	36.232M	40.2M	36.382M	39.75M	36.232M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.21M	32.989M	34.93M	33.058M	35.07M	33.058M	34.825M	33.058M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.458M	3.12M	3.458M	3.1M	3.478M	3.1M	3.438M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40M	37.531M	39.95M	37.531M	40.1M	37.481M	40.05M	37.481M
5310MHz	Pass	Inf	40.05M	37.581M	39.8M	37.581M	40.05M	37.581M	40.1M	37.531M
5510MHz	Pass	Inf	40.1M	37.481M	39.9M	37.531M	40.05M	37.581M	40.1M	37.531M
5550MHz	Pass	Inf	40.1M	37.481M	39.9M	37.581M	40M	37.531M	40.1M	37.531M
5670MHz	Pass	Inf	40.15M	37.581M	39.9M	37.581M	40.1M	37.631M	40.15M	37.481M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.105M	33.688M	34.93M	33.688M	35.175M	33.688M	35.035M	33.618M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.72M	3.998M	3.78M	3.998M	3.72M	3.998M	3.78M	3.998M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82.2M	75.862M	81.4M	75.562M	81.3M	75.562M	82M	75.862M
5530MHz	Pass	Inf	81.7M	75.762M	81.6M	75.762M	80.9M	75.662M	81.8M	75.662M
5610MHz	Pass	Inf	82M	75.562M	81.3M	75.762M	80.9M	75.662M	81.8M	75.662M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.05M	72.339M	75.975M	72.564M	75.525M	72.489M	75.9M	72.414M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.558M	3.08M	3.498M	3.08M	3.518M	3.08M	3.438M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	82M	77.061M	82.3M	77.161M	81.8M	76.962M	81.8M	77.161M
5530MHz	Pass	Inf	81.9M	76.862M	82.3M	77.161M	81.9M	77.061M	81.9M	76.962M
5610MHz	Pass	Inf	82.1M	77.161M	82M	77.061M	81.9M	76.962M	81.9M	77.061M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.9M	73.163M	75.975M	73.238M	76.275M	73.388M	75.675M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.7M	3.998M	3.76M	3.998M	3.68M	3.978M	3.72M	3.978M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	81.12M	75.339M	80.88M	76.051M	81.44M	75.506M	80.88M	75.494M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.44M	75.828M	83.2M	75.52M	80.72M	75.547M	80.8M	75.847M
5570MHz	Pass	Inf	163M	154.005M	164.2M	154.515M	163.4M	154.267M	164M	154.876M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.56M	77.001M	80.48M	77.081M	81.28M	77.001M	80.88M	77.081M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.2M	77.081M	81.6M	77.081M	81.04M	77.001M	80.88M	77.081M
5570MHz	Pass	Inf	163.6M	154.523M	163.4M	154.923M	164M	155.122M	164M	154.923M

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

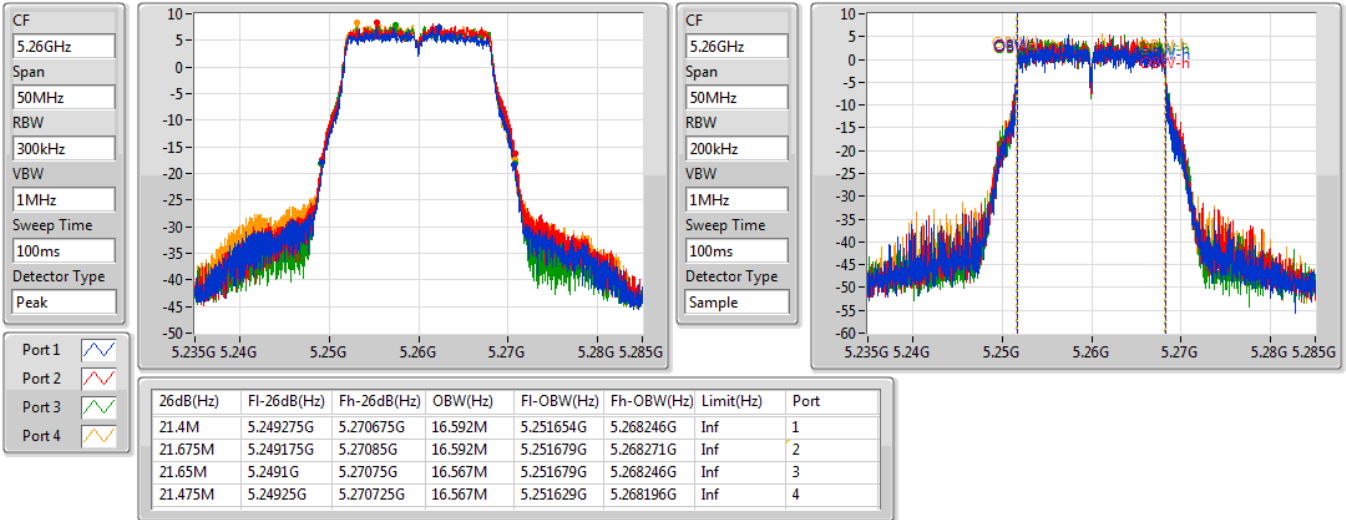
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5260MHz

11/04/2019

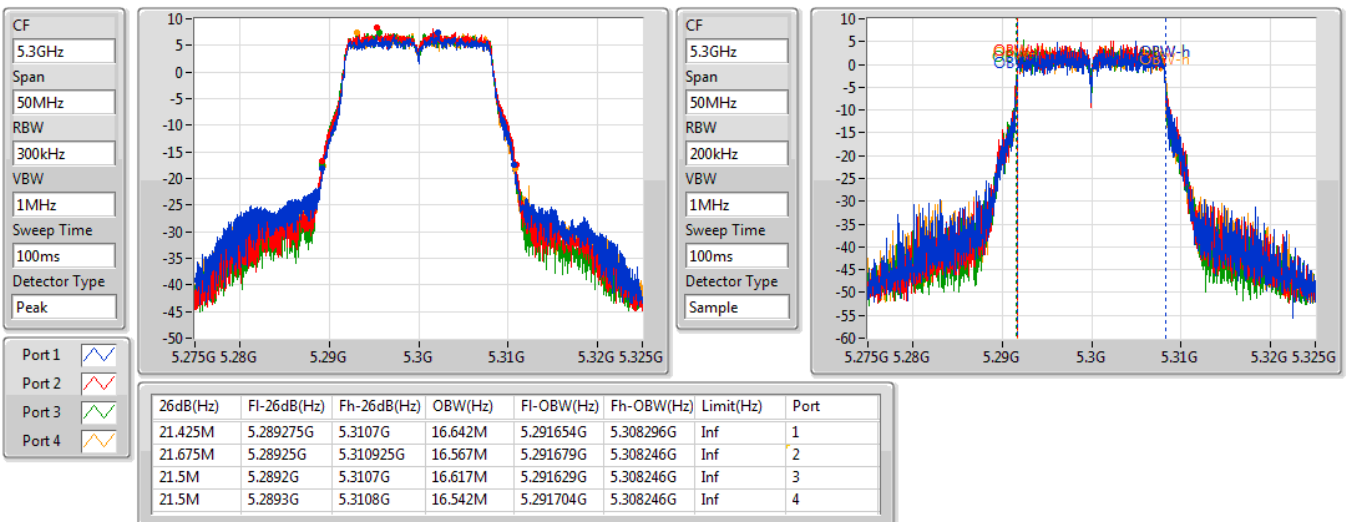


802.11a_Nss1,(6Mbps)_4TX

EBW

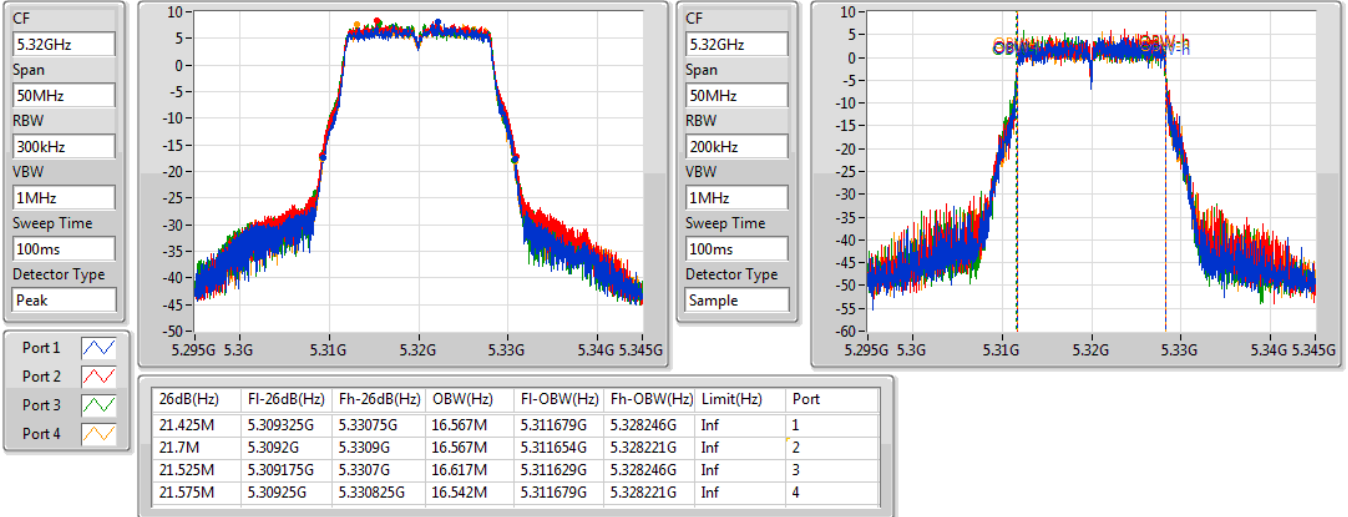
5300MHz

11/04/2019

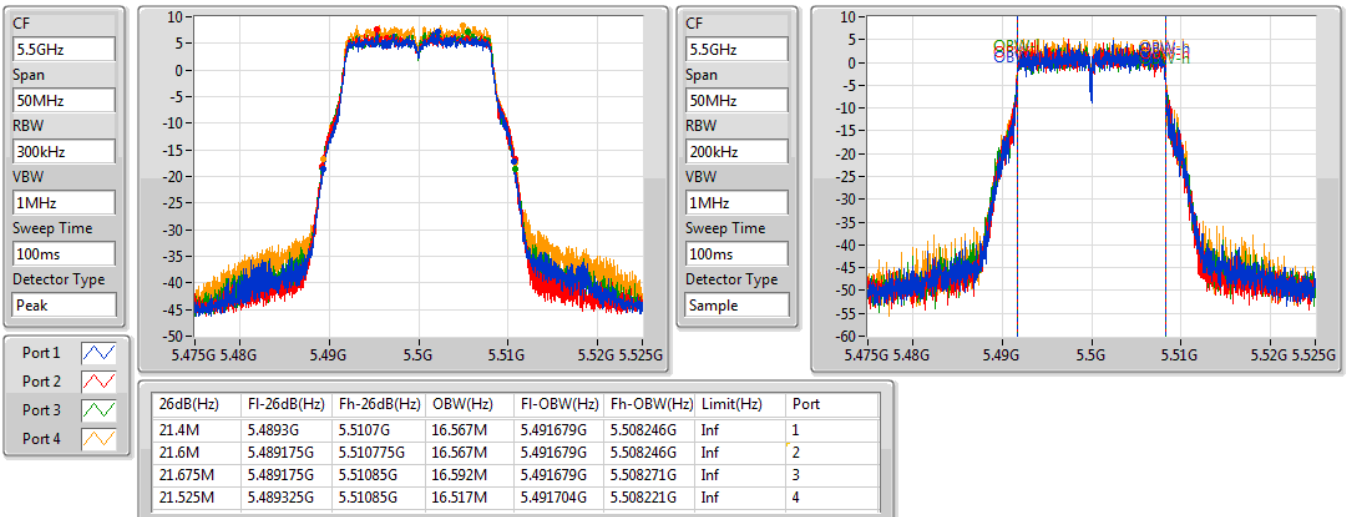


802.11a_Nss1,(6Mbps)_4TX
EBW
5320MHz

11/04/2019

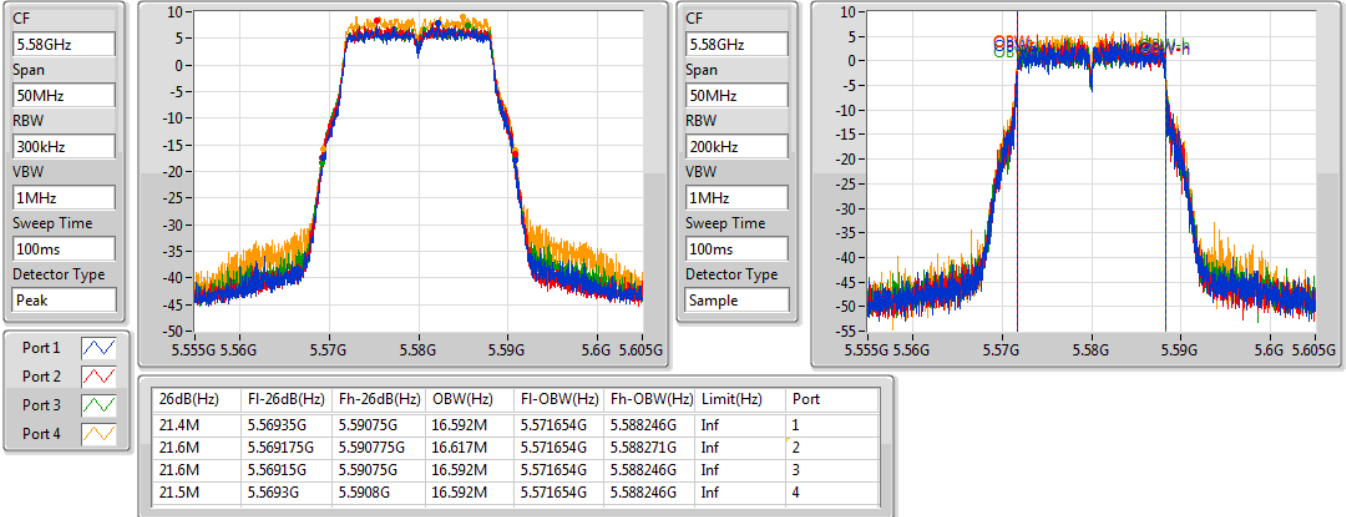

802.11a_Nss1,(6Mbps)_4TX
EBW
5500MHz

11/04/2019

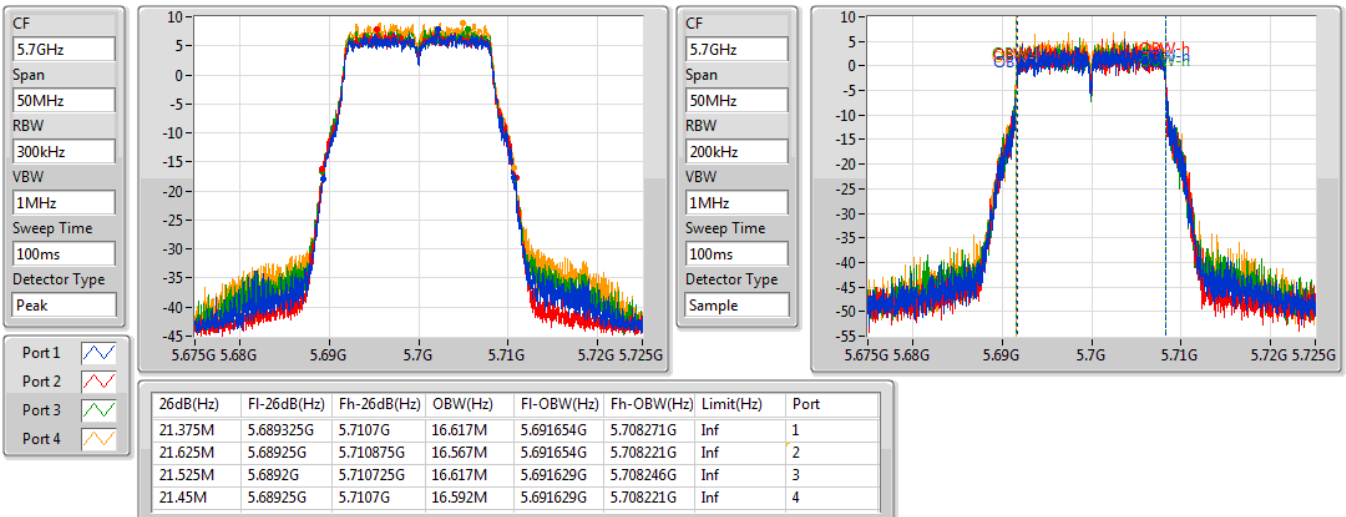


802.11a_Nss1,(6Mbps)_4TX
EBW
5580MHz

10/04/2019

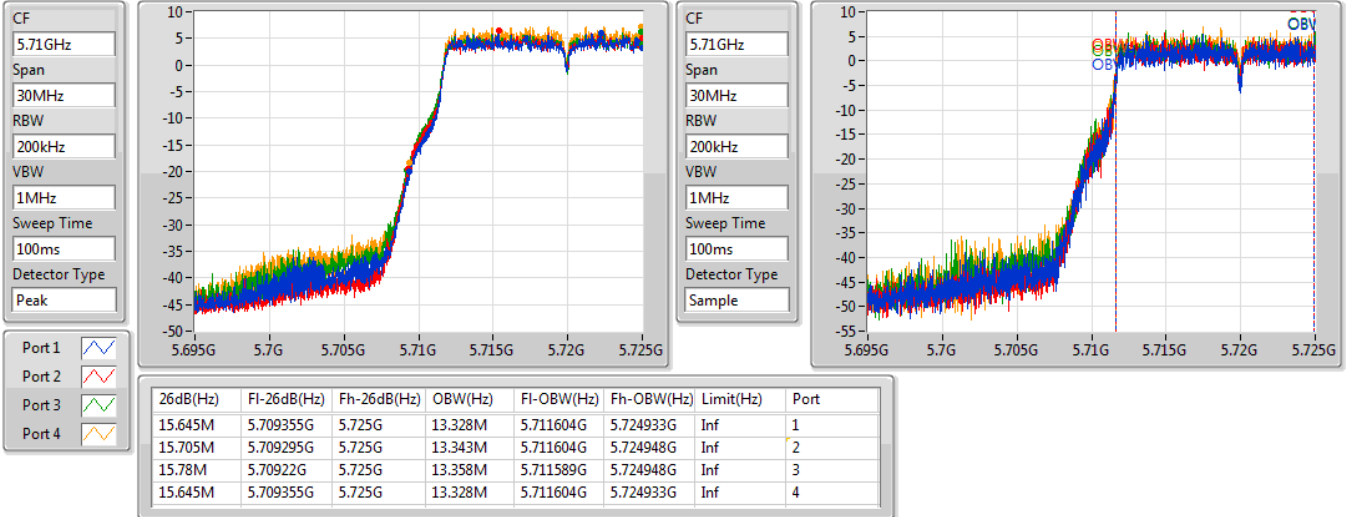

802.11a_Nss1,(6Mbps)_4TX
EBW
5700MHz

10/04/2019

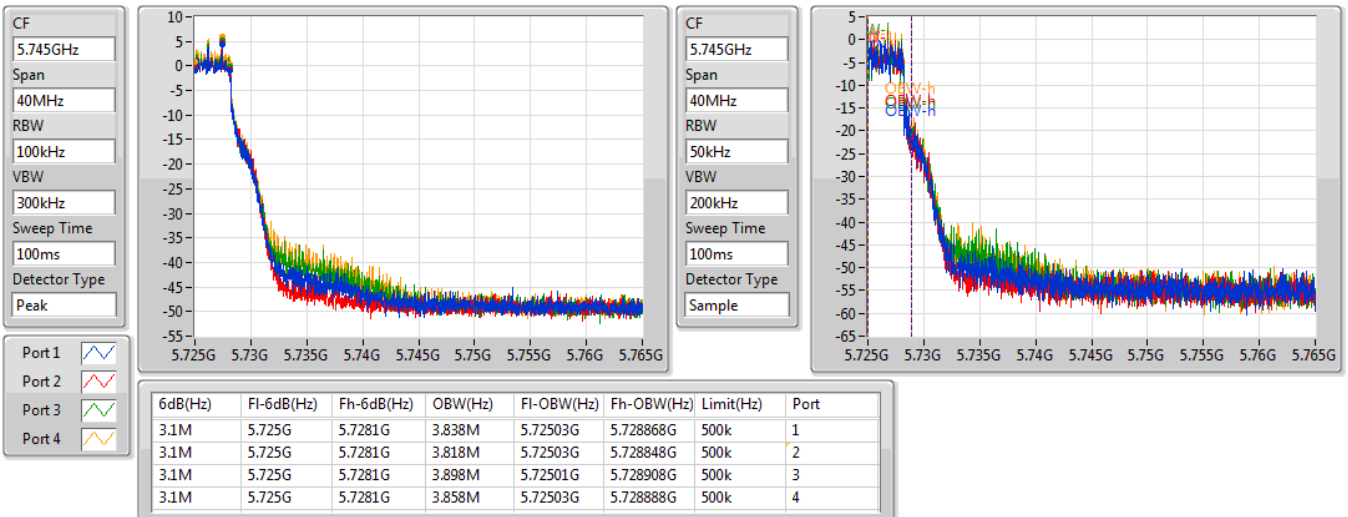


802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

10/04/2019

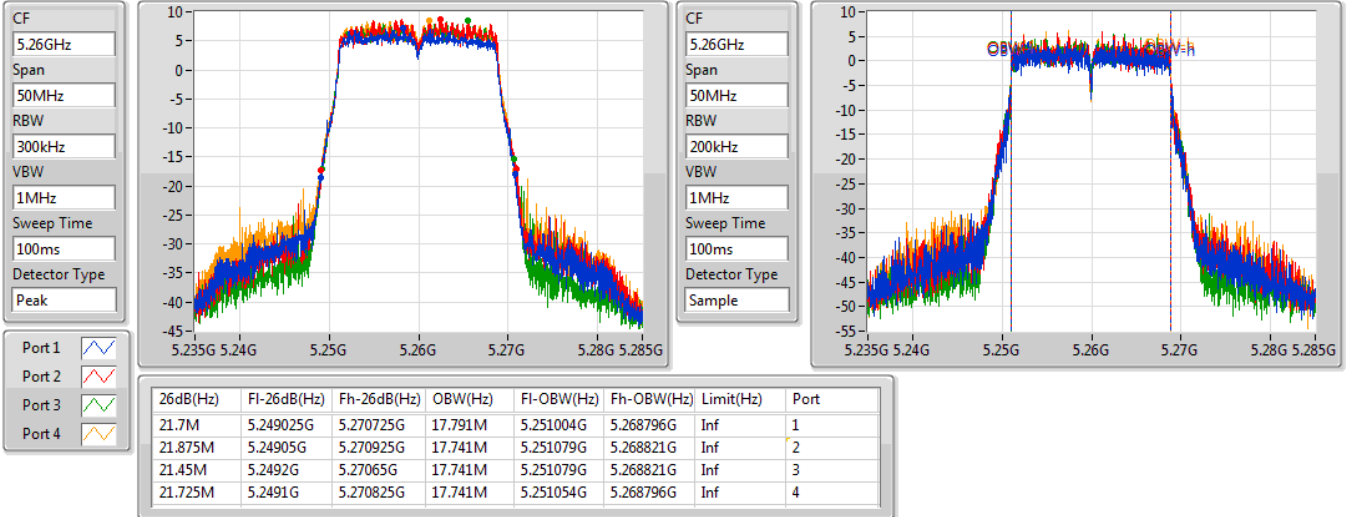

802.11a_Nss1,(6Mbps)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

10/04/2019

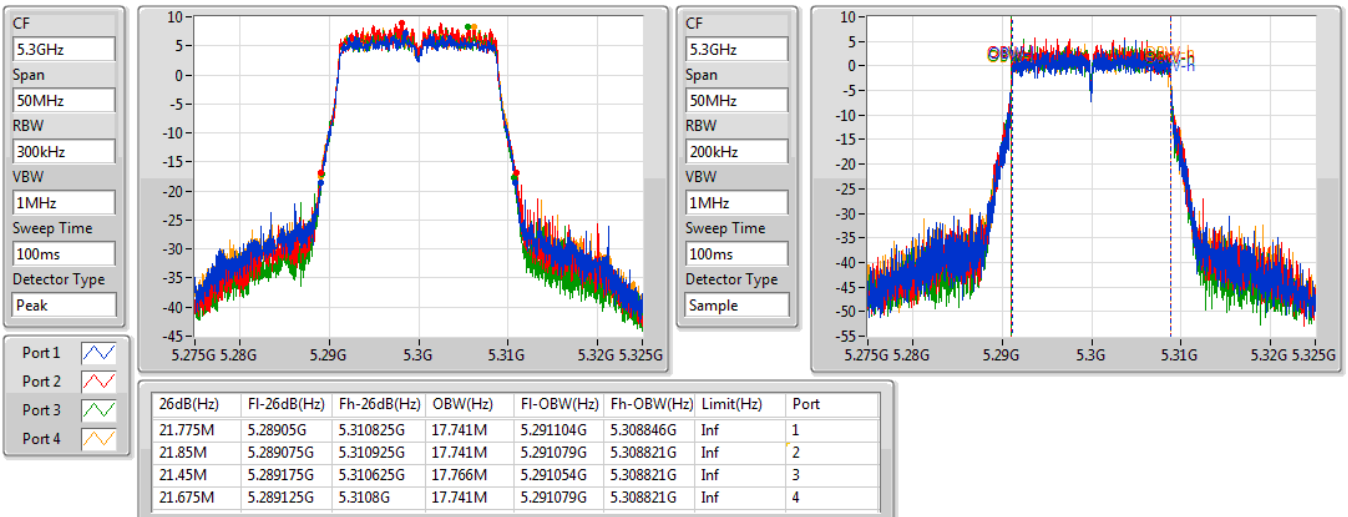


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5260MHz

11/04/2019

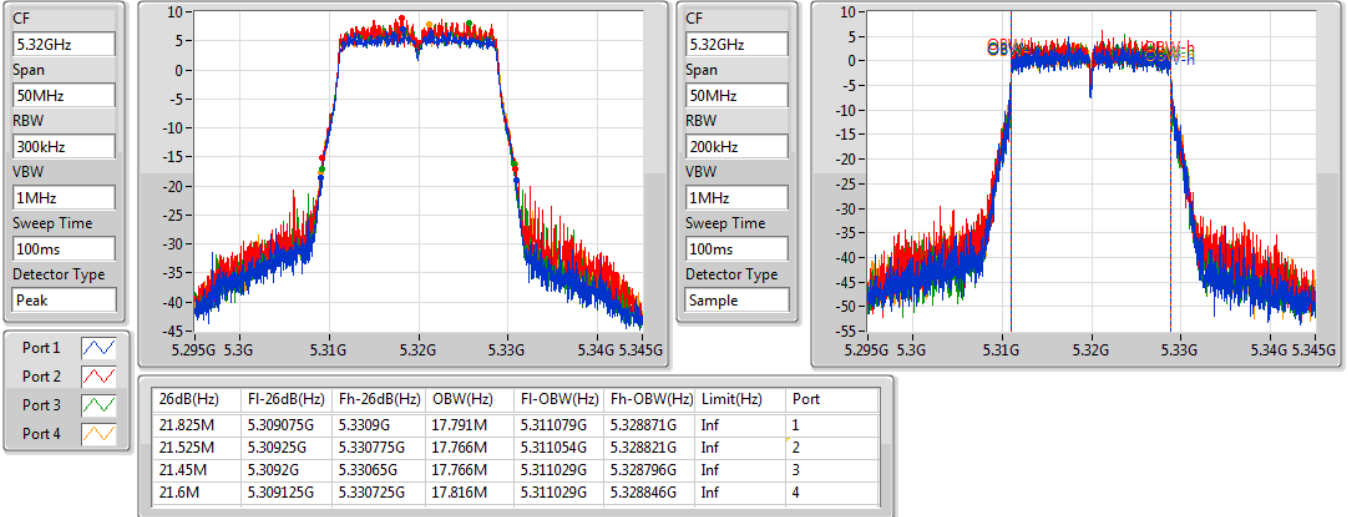

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5300MHz

11/04/2019

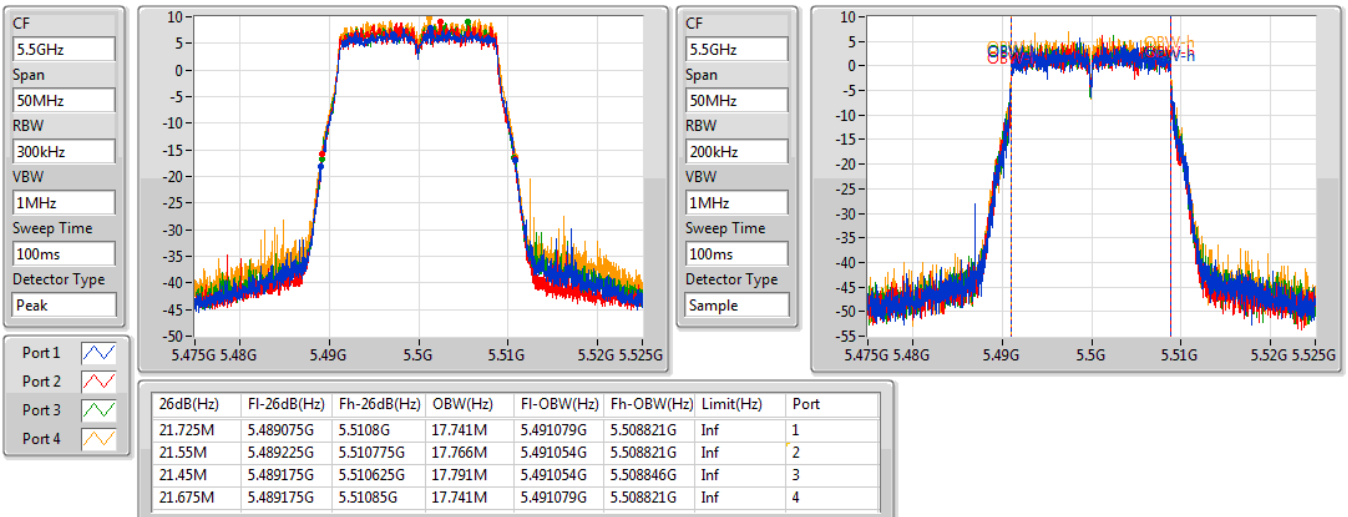


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5320MHz

11/04/2019

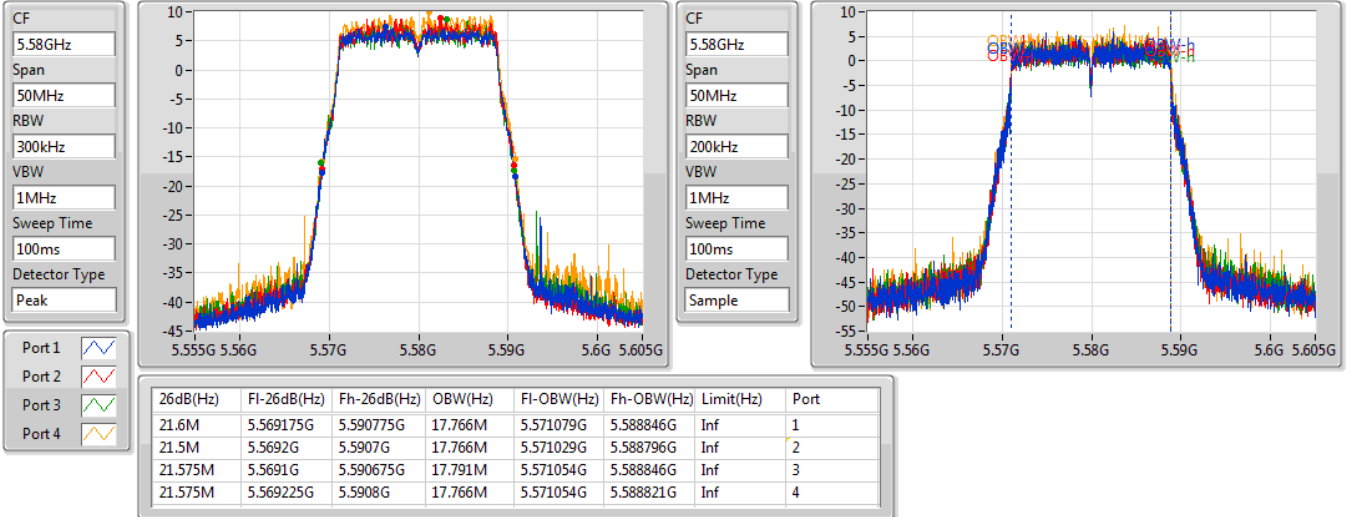

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5500MHz

11/04/2019

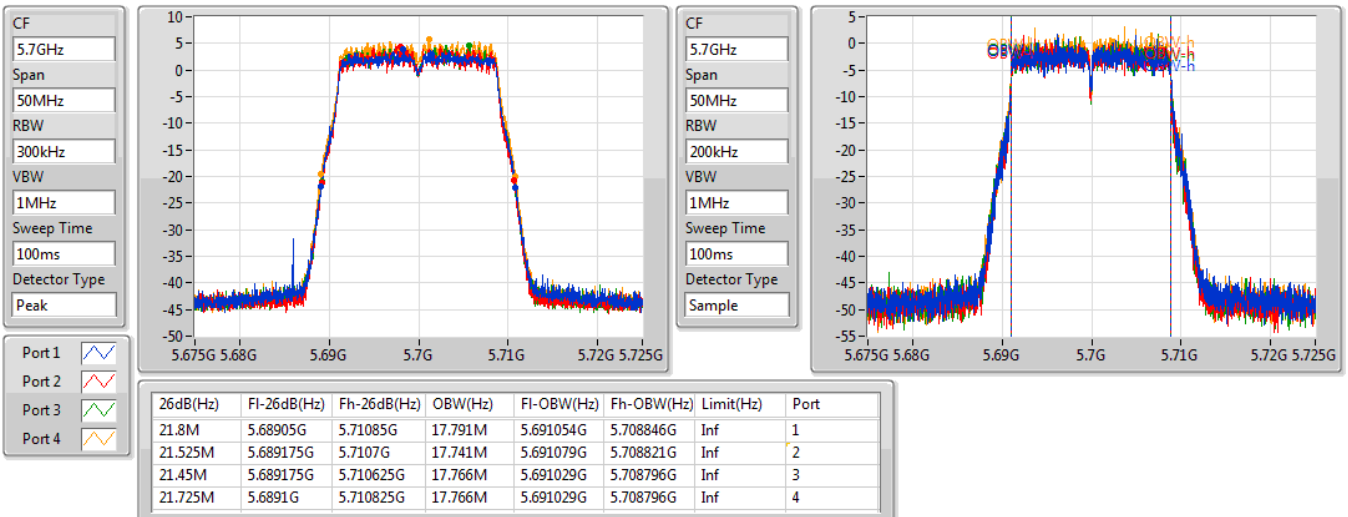


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5580MHz

11/04/2019

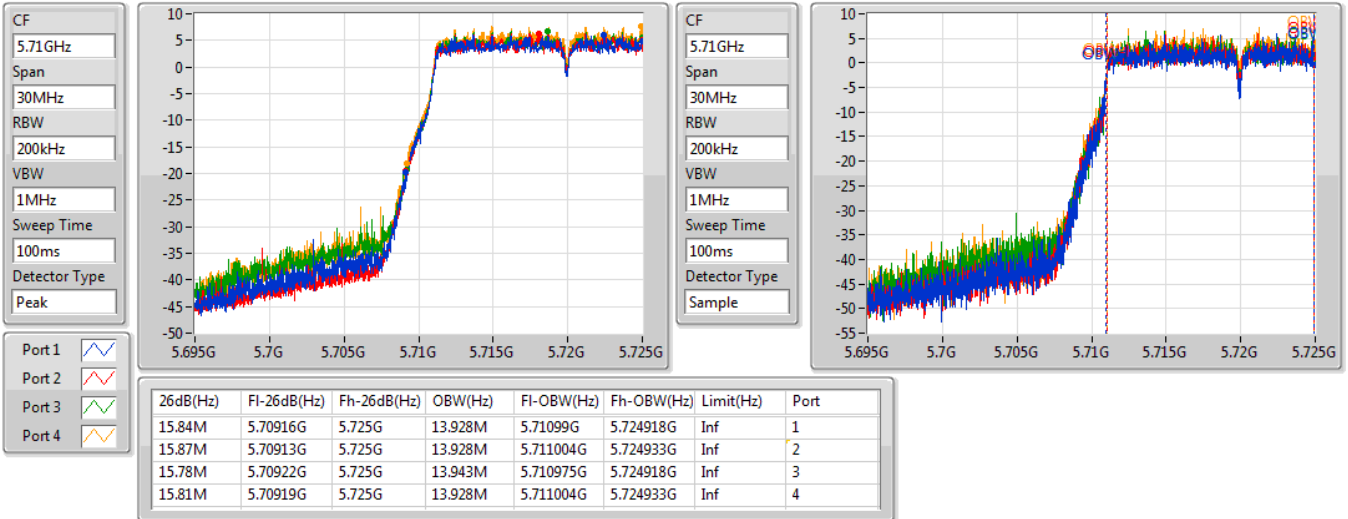

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5700MHz

11/04/2019

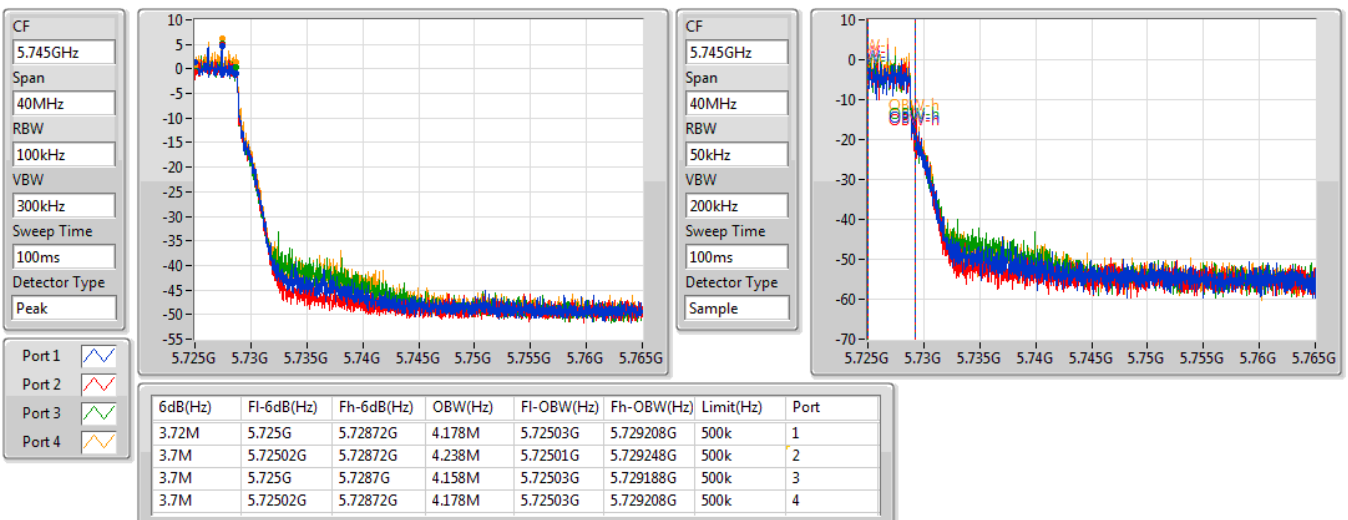


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

11/04/2019

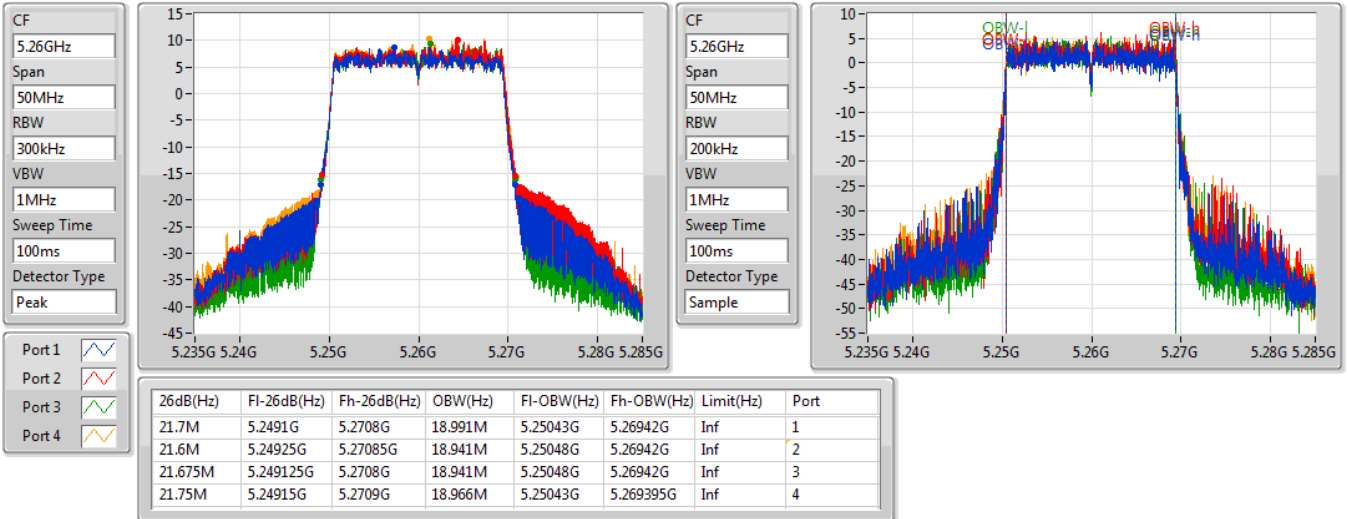

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

11/04/2019

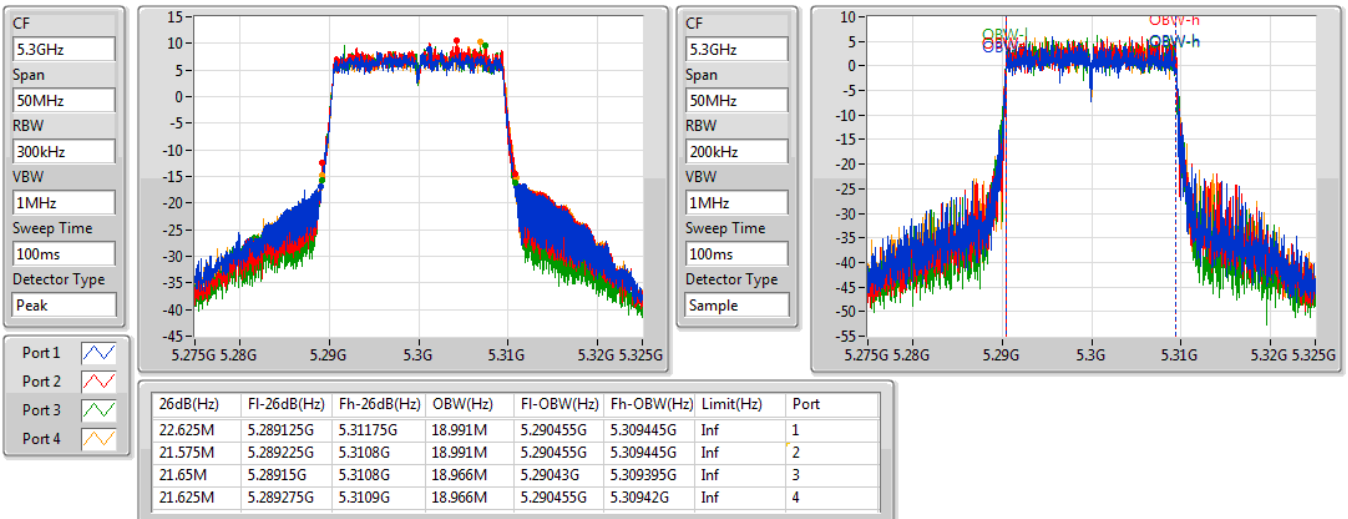


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5260MHz

11/04/2019

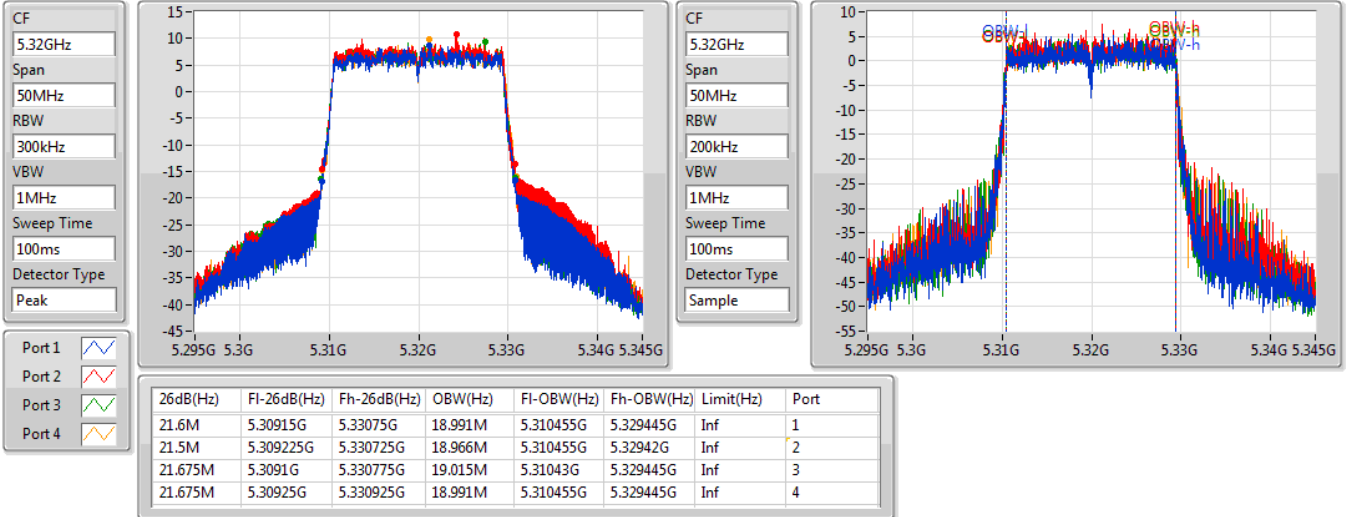

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5300MHz

11/04/2019

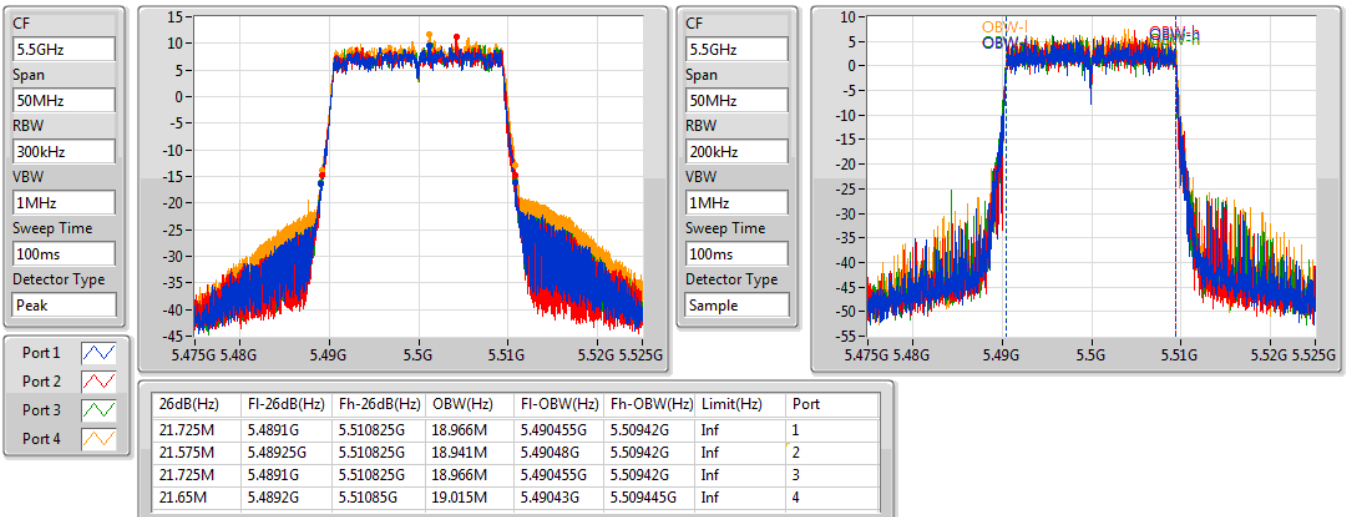


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5320MHz

11/04/2019

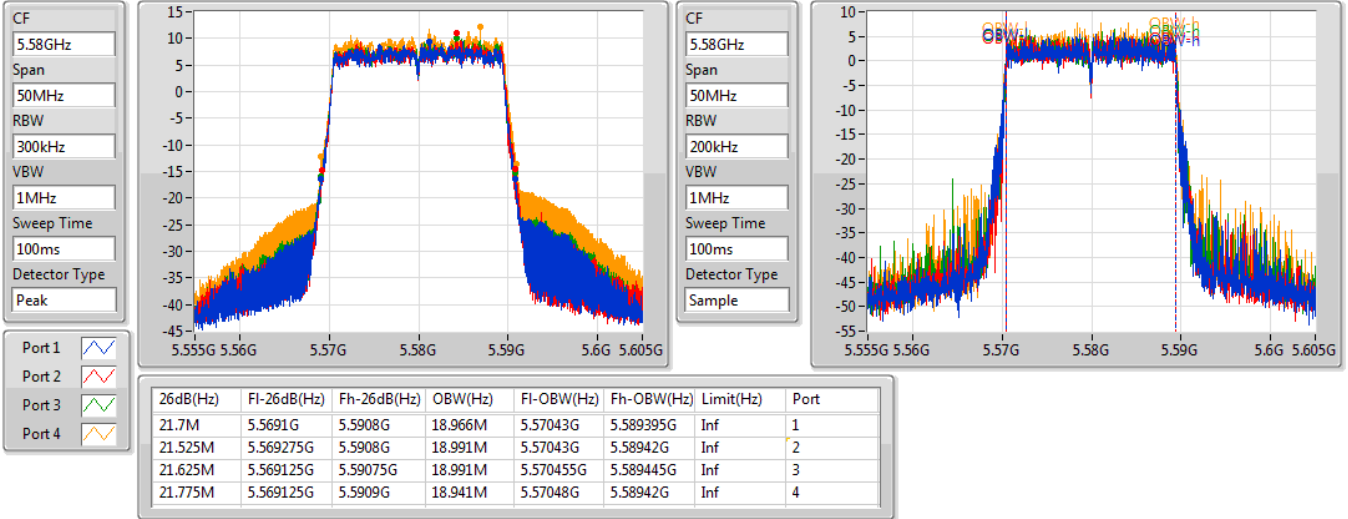

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5500MHz

10/04/2019

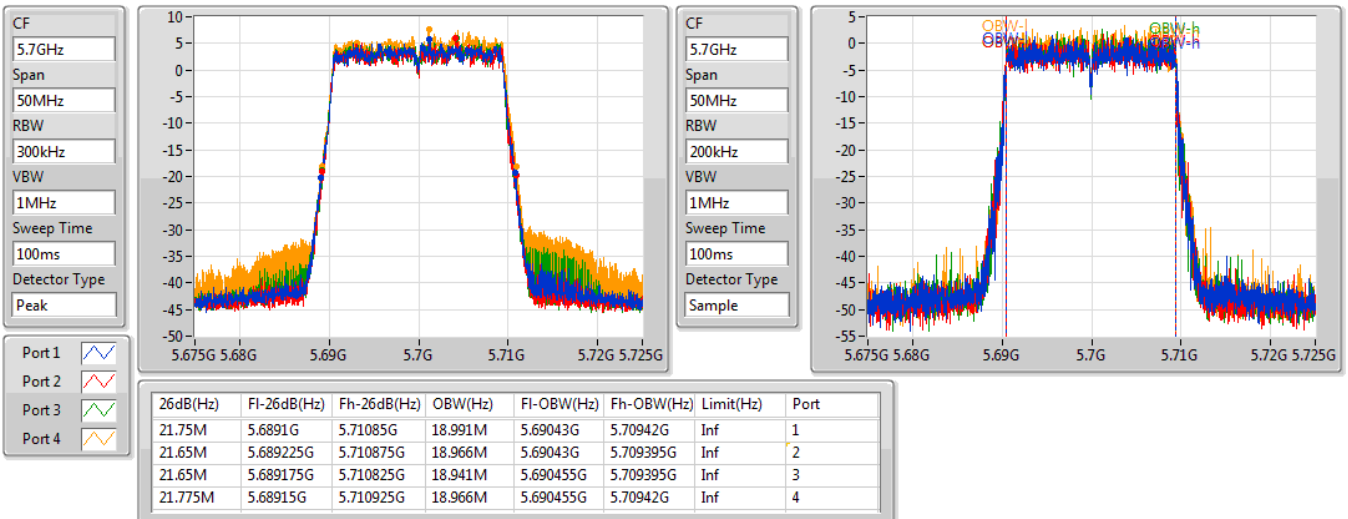


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5580MHz

10/04/2019

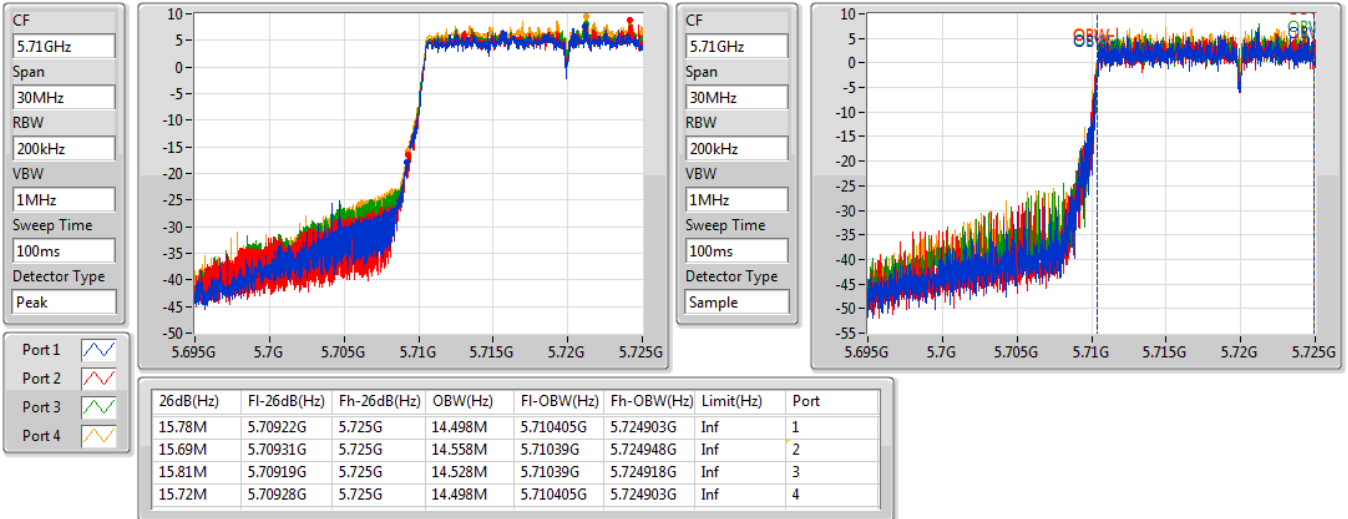

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5700MHz

10/04/2019

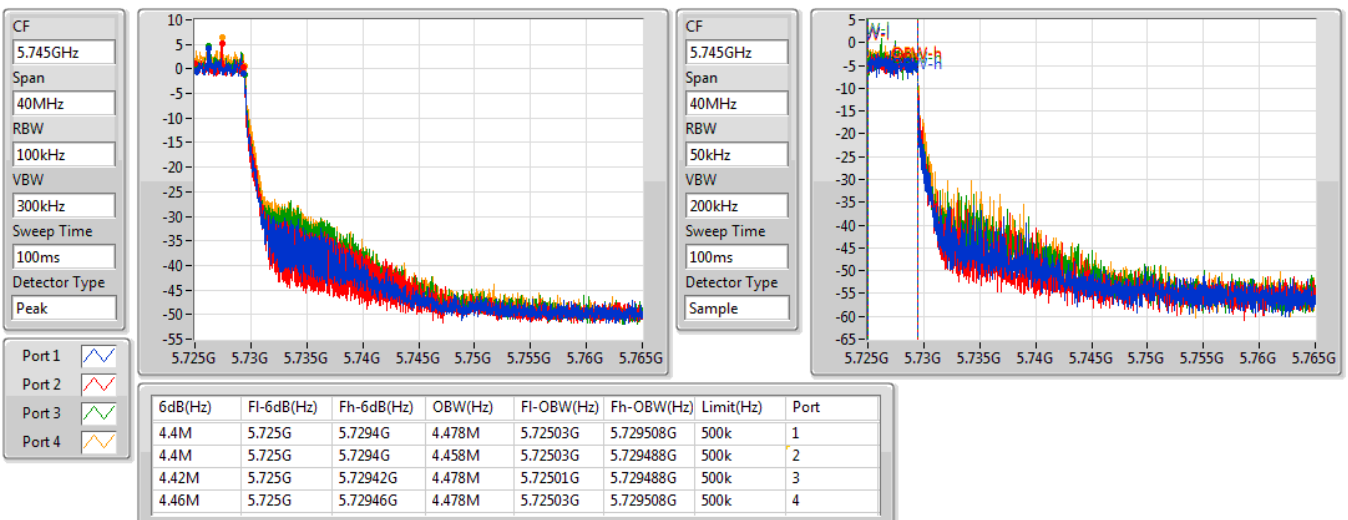


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

11/04/2019

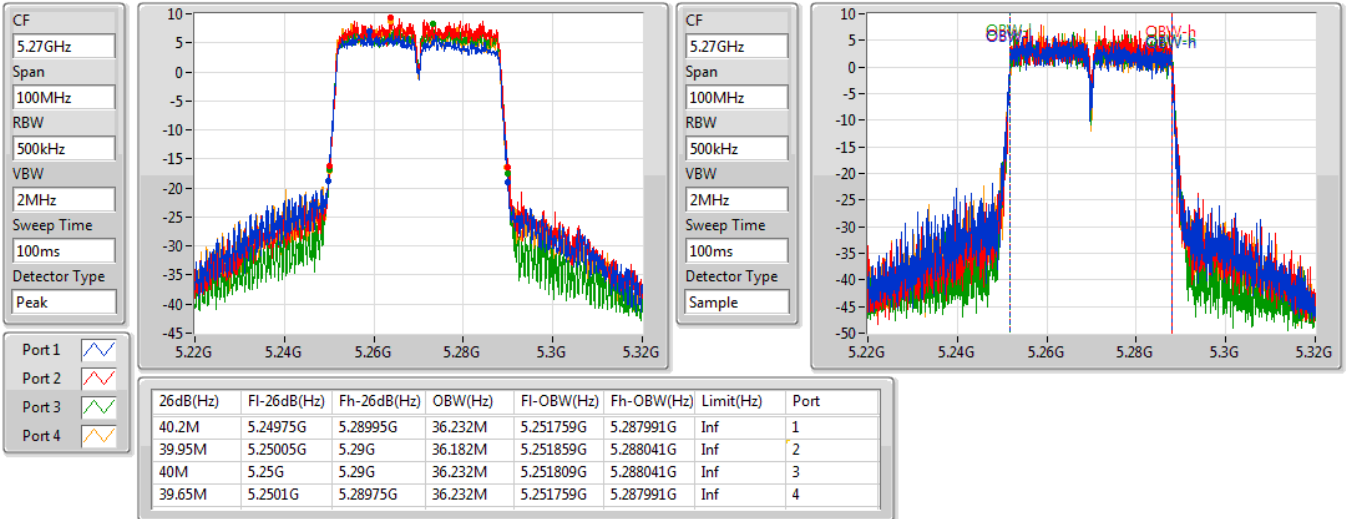

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

11/04/2019

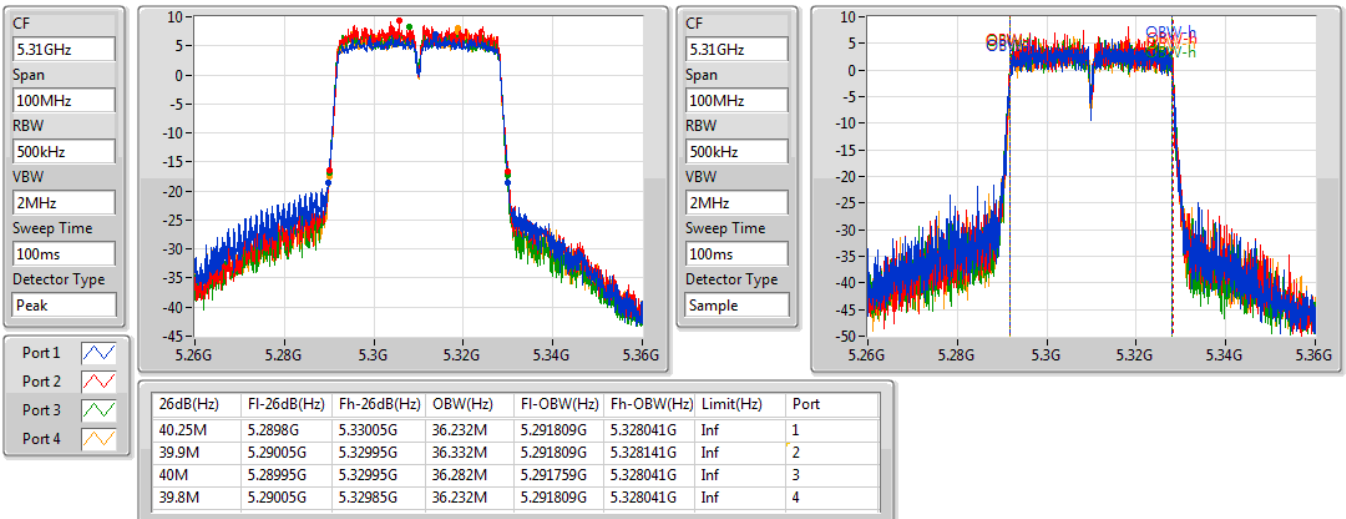


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5270MHz

11/04/2019

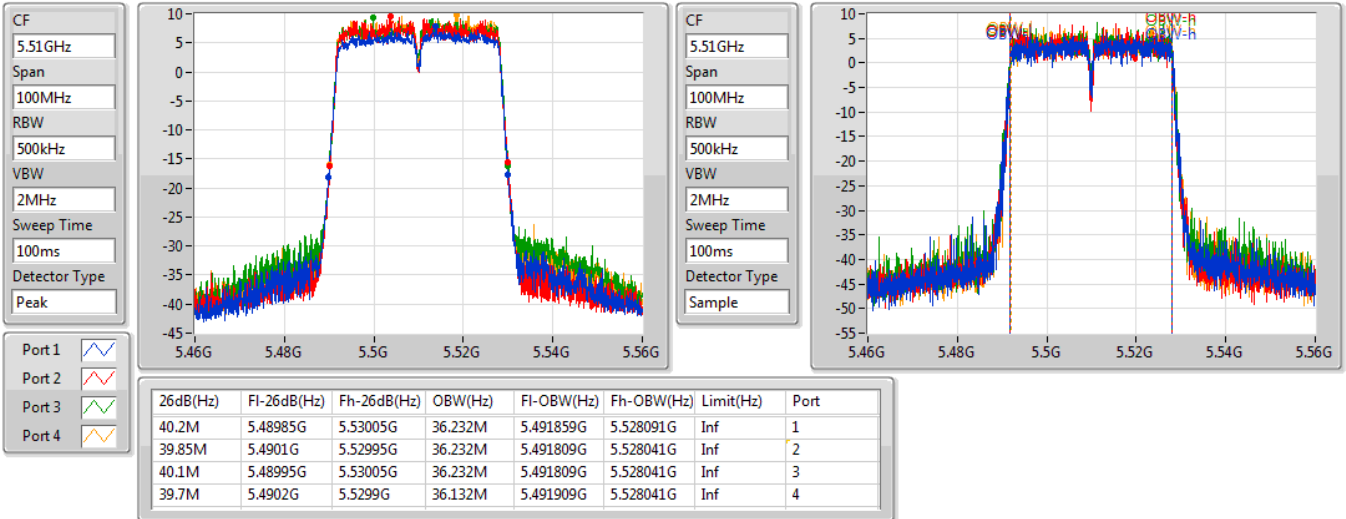

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5310MHz

11/04/2019

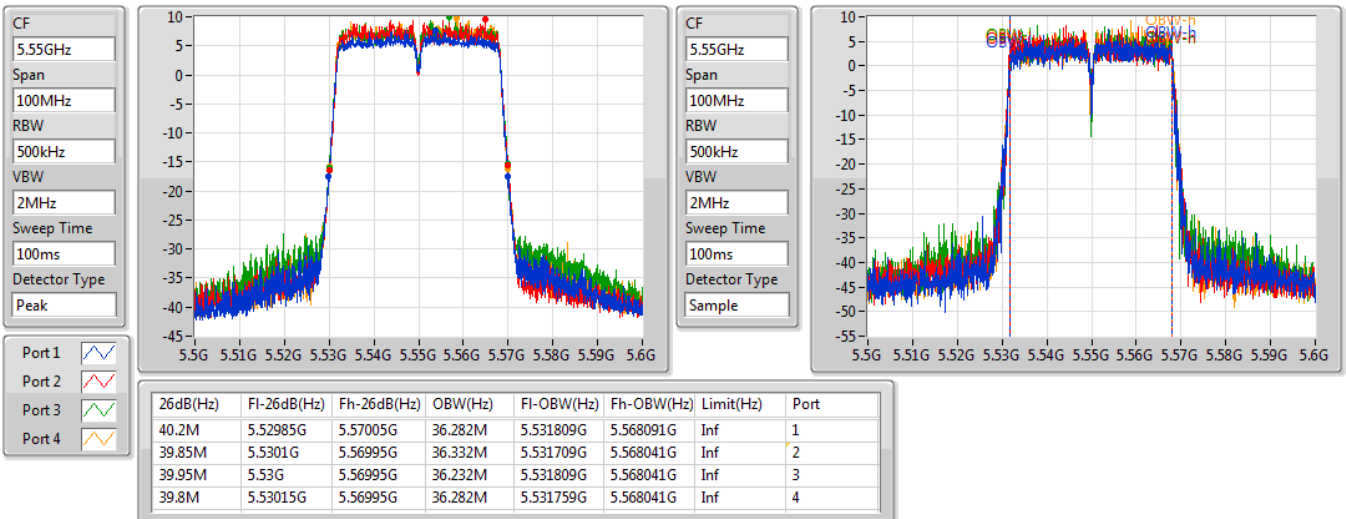


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5510MHz

11/04/2019

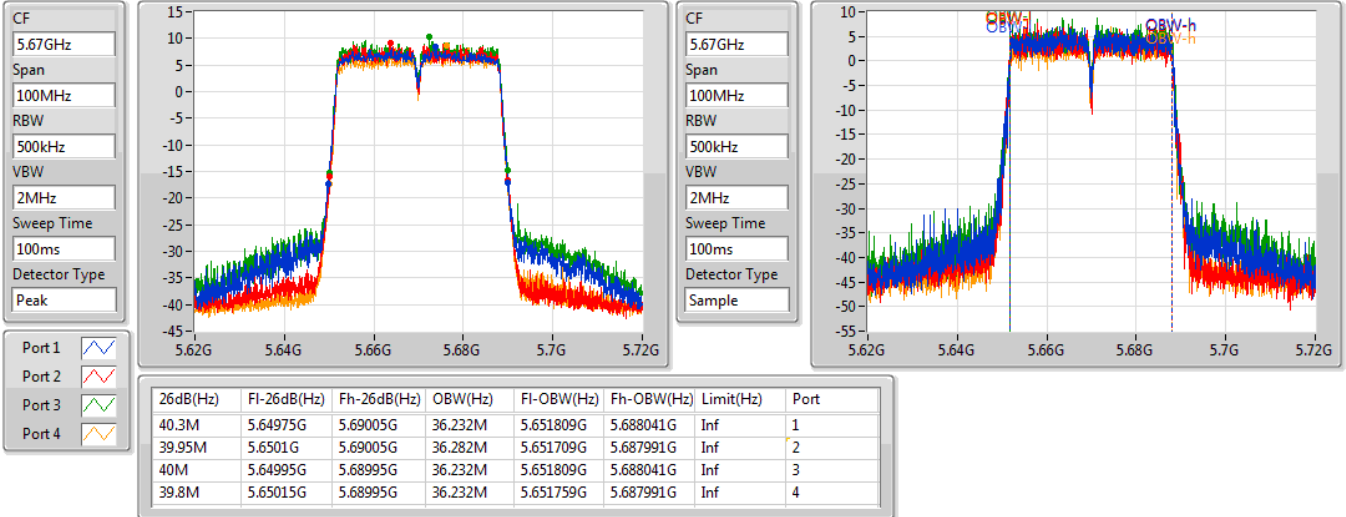

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5550MHz

11/04/2019

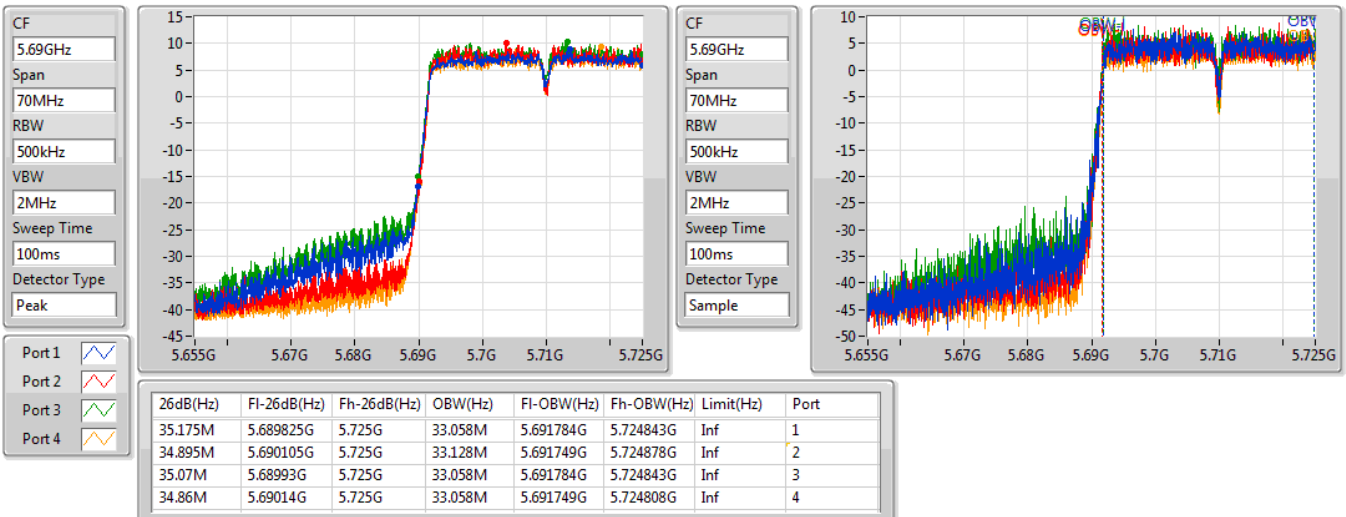


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5670MHz

11/04/2019

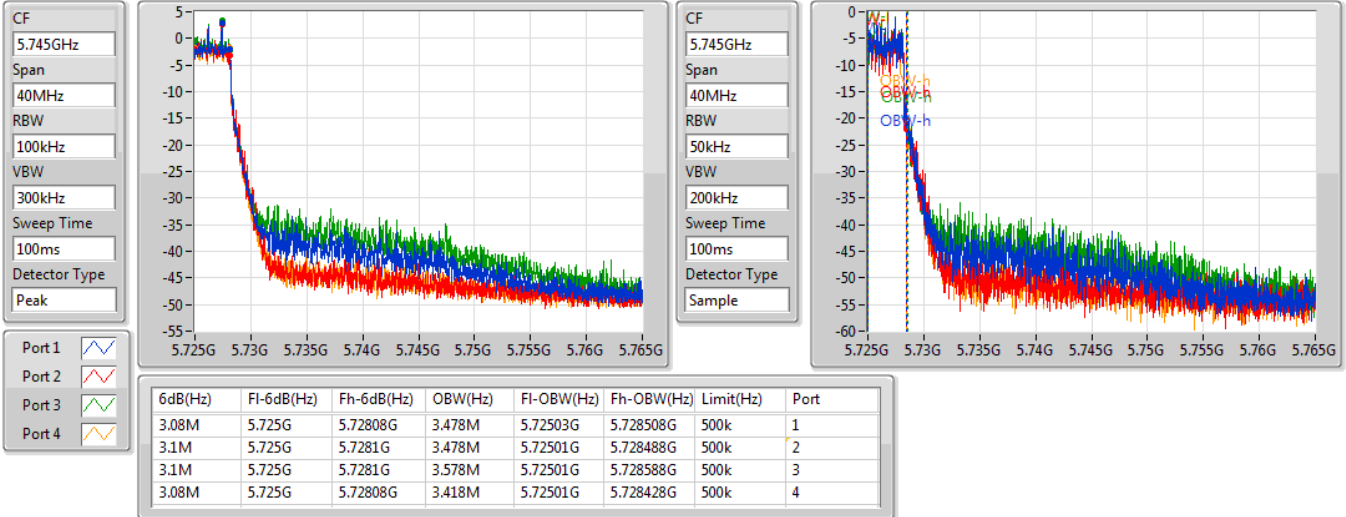

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

11/04/2019

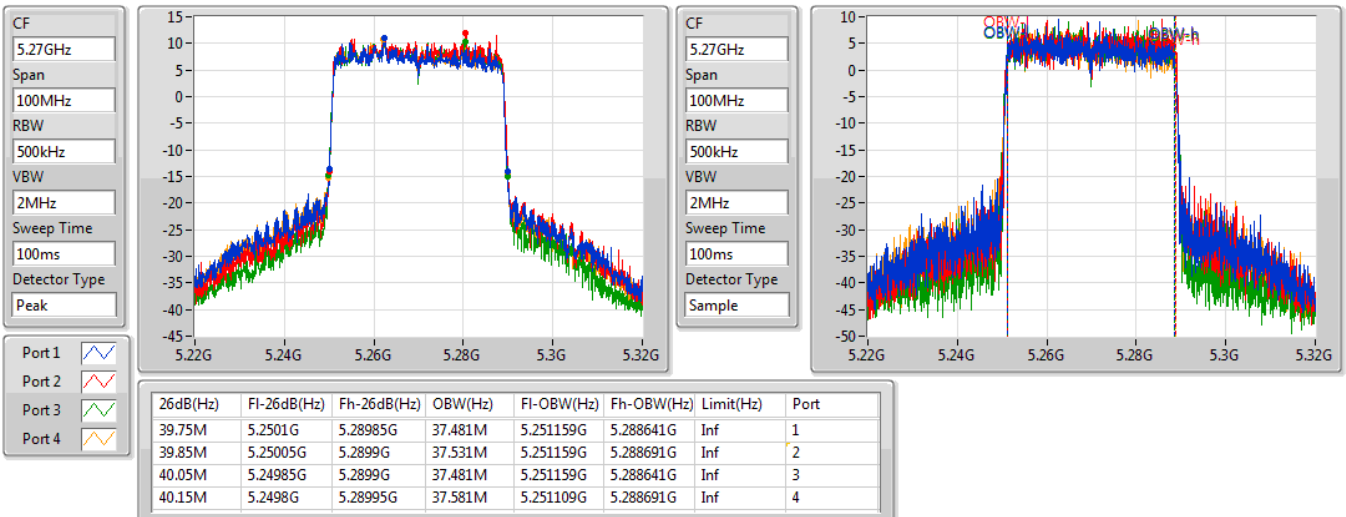


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

11/04/2019

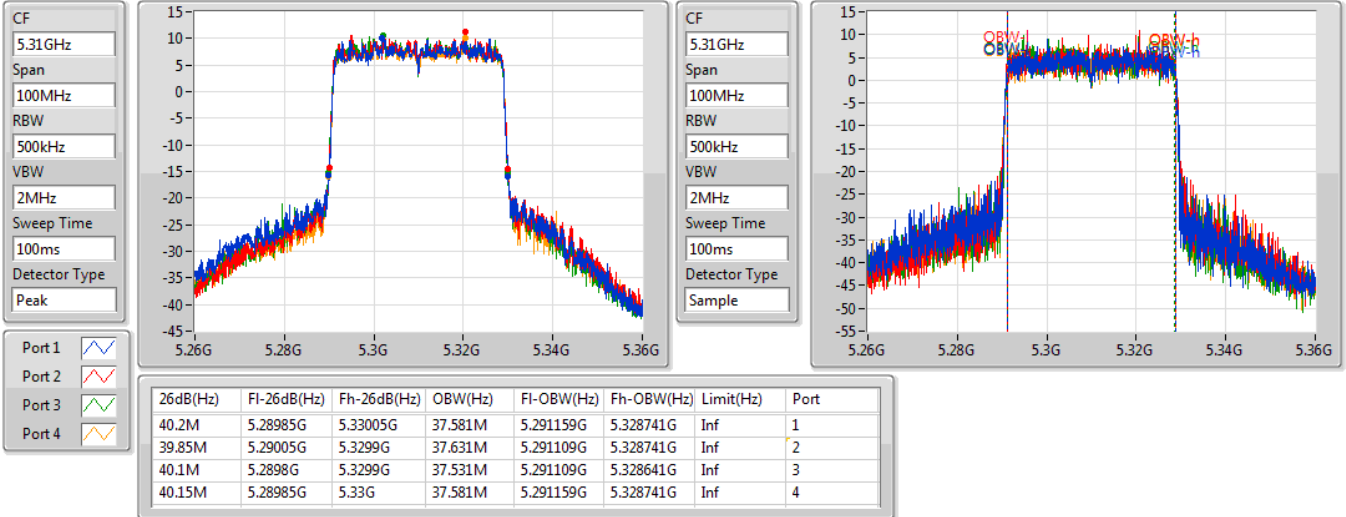

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5270MHz

11/04/2019

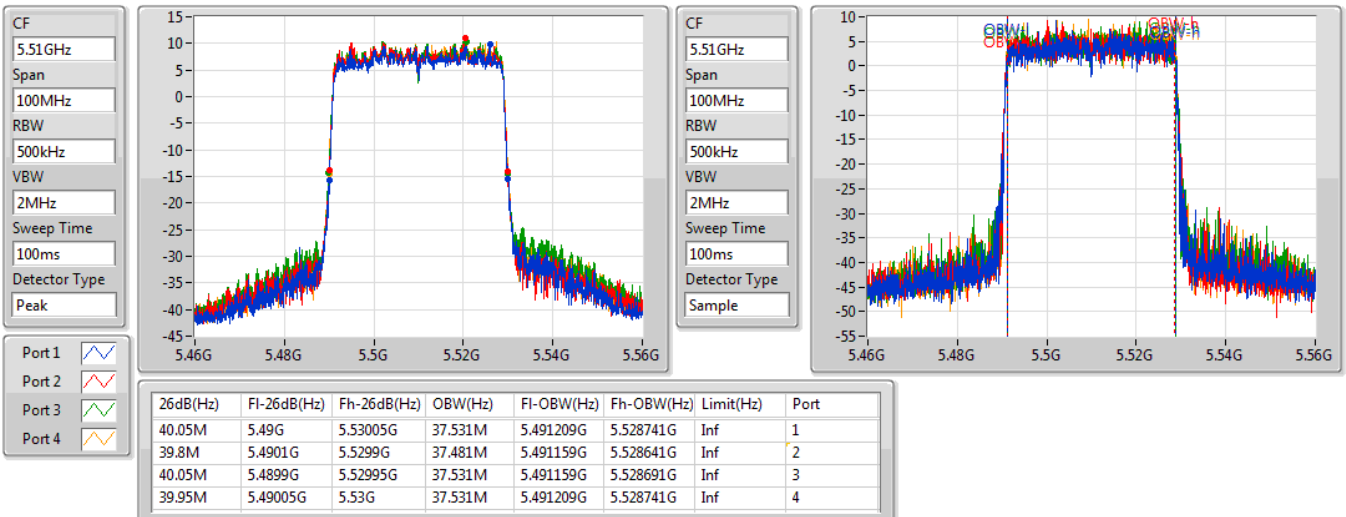


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5310MHz

11/04/2019

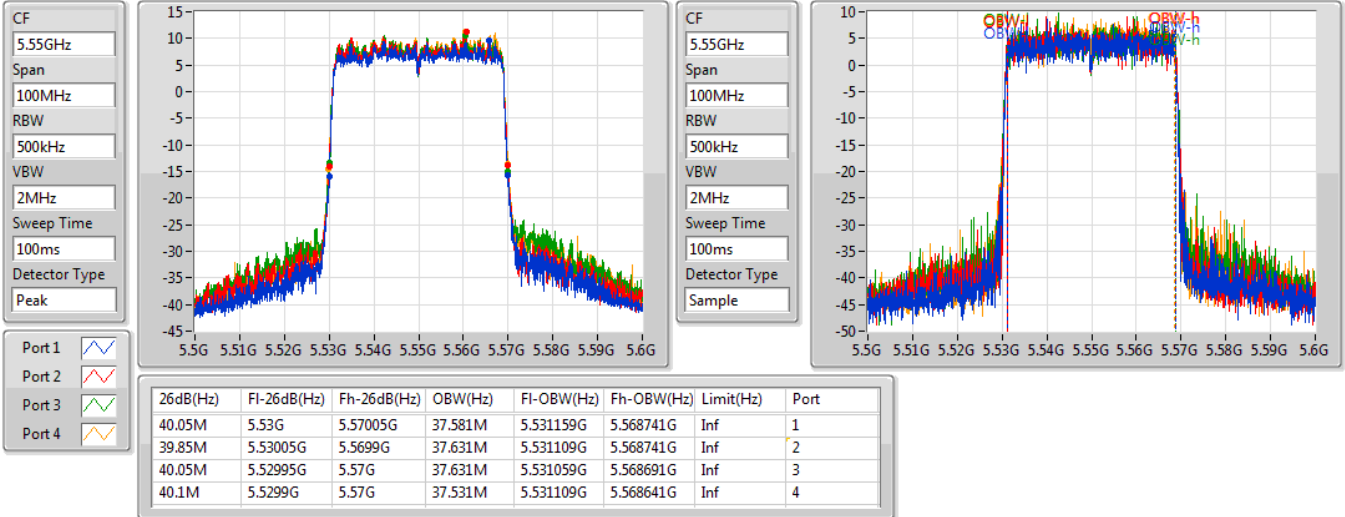

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5510MHz

11/04/2019

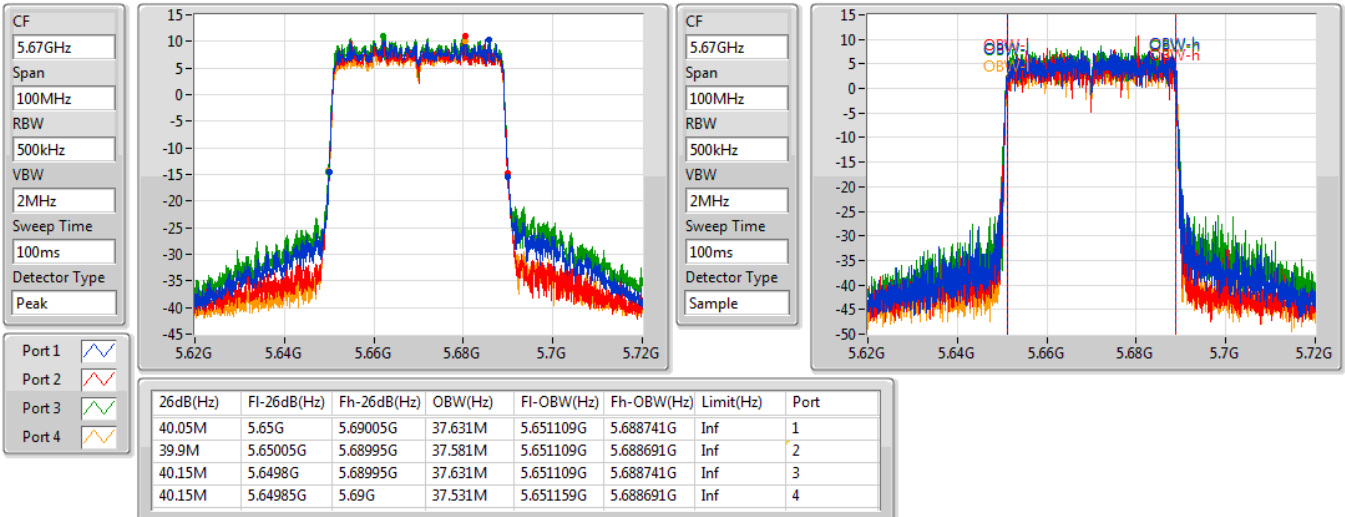


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5550MHz

10/04/2019

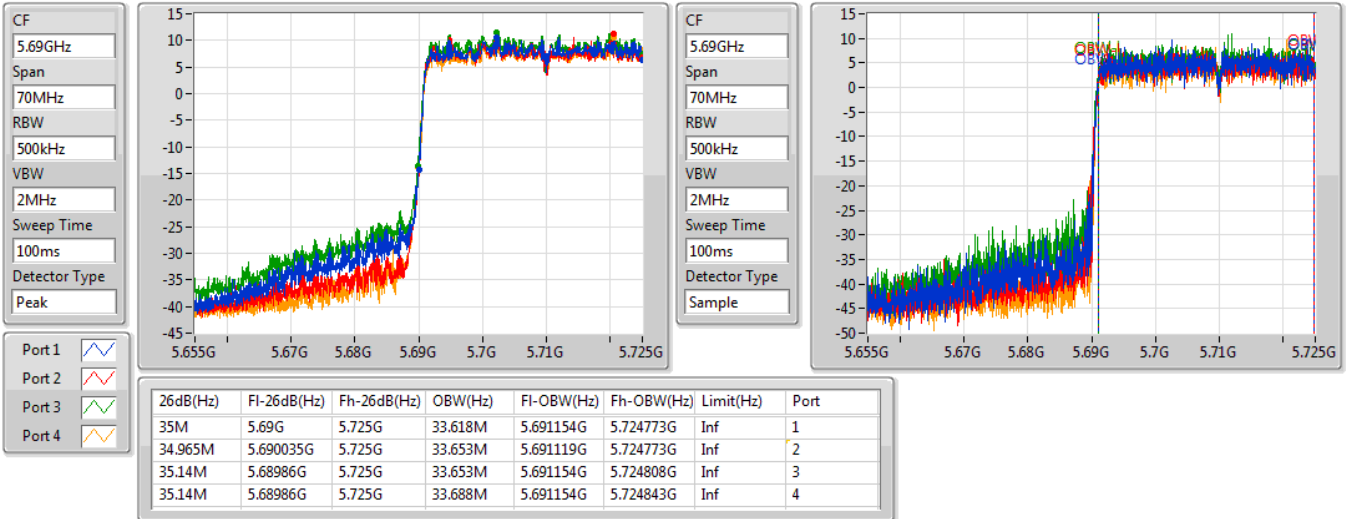

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5670MHz

10/04/2019

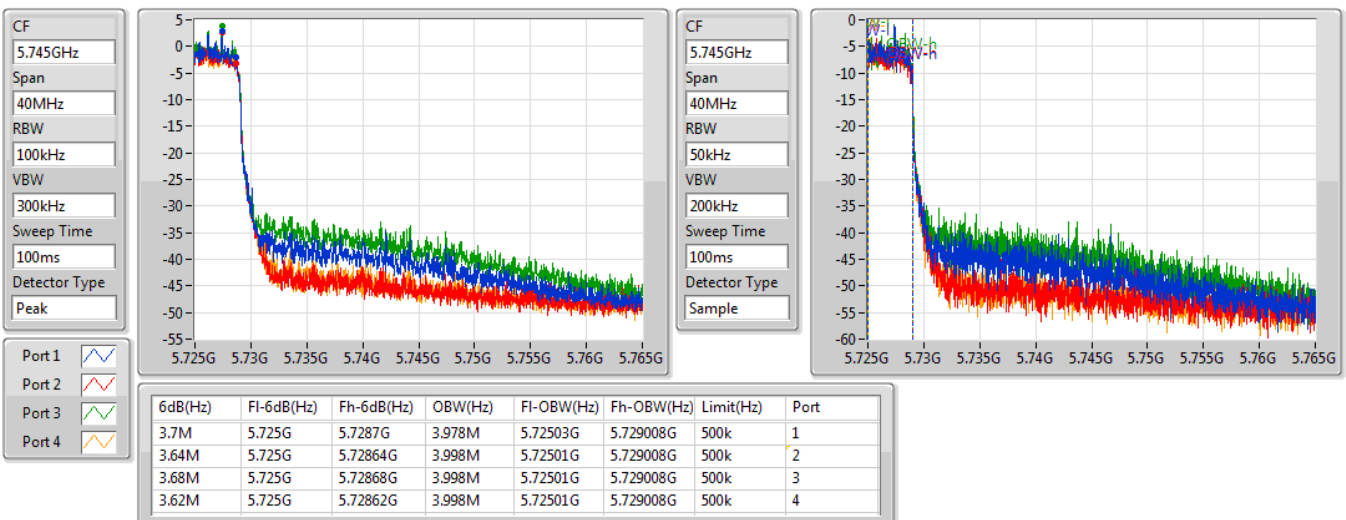


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

10/04/2019

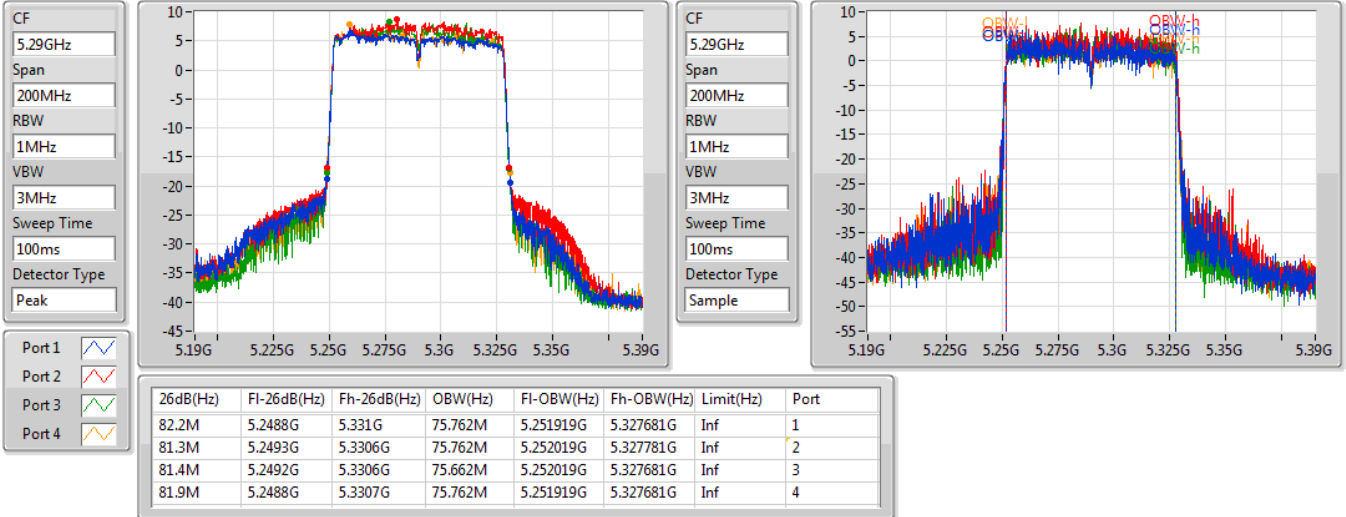

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

10/04/2019

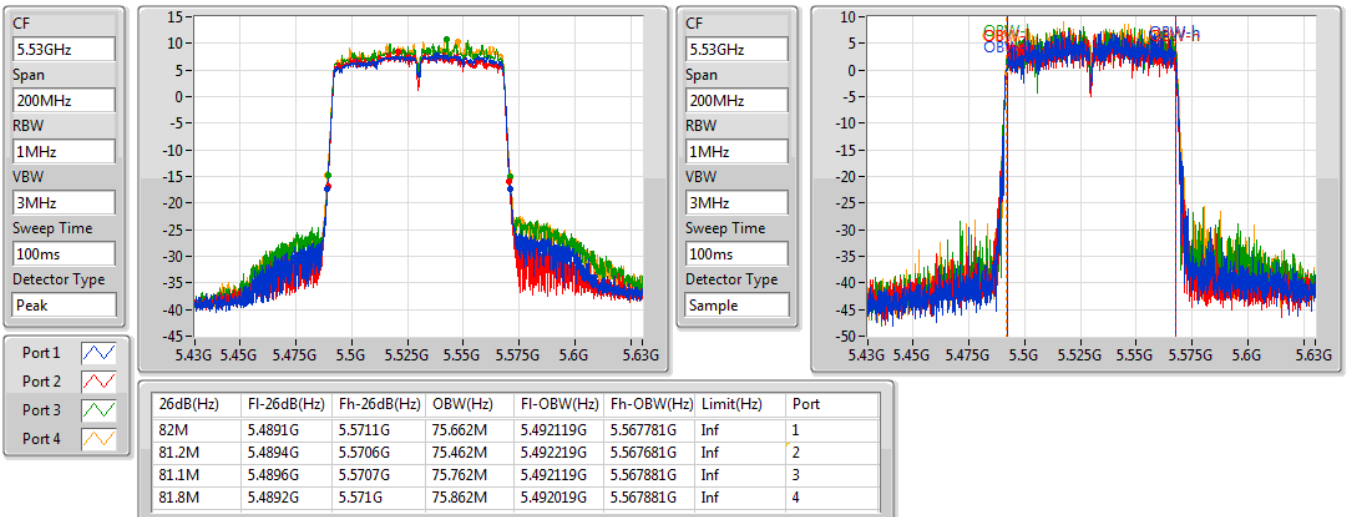


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5290MHz

11/04/2019

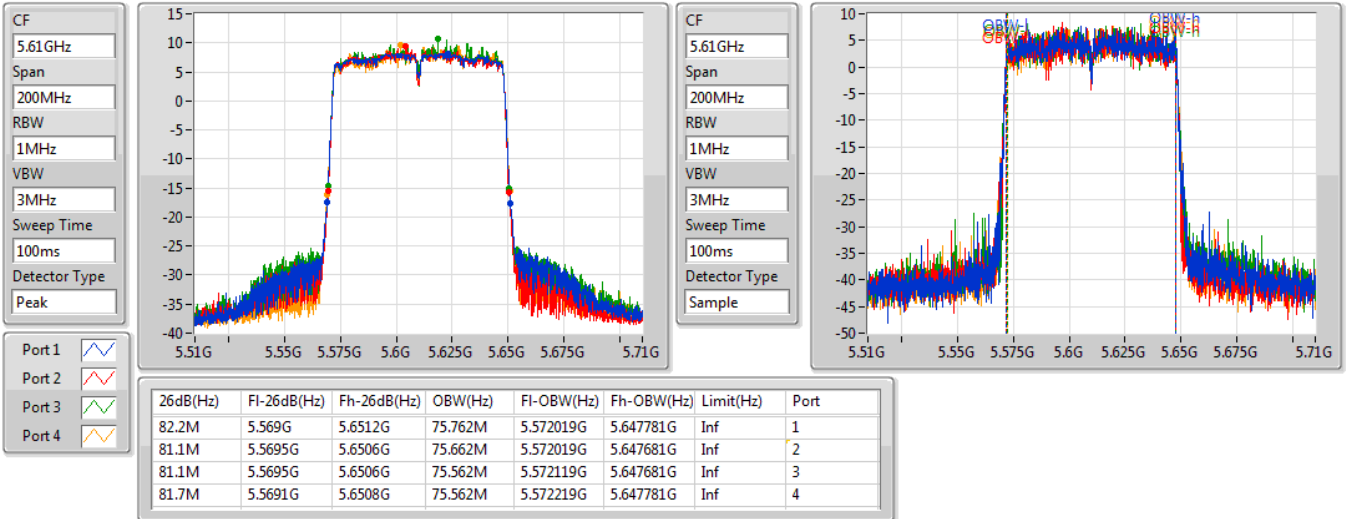

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5530MHz

11/04/2019

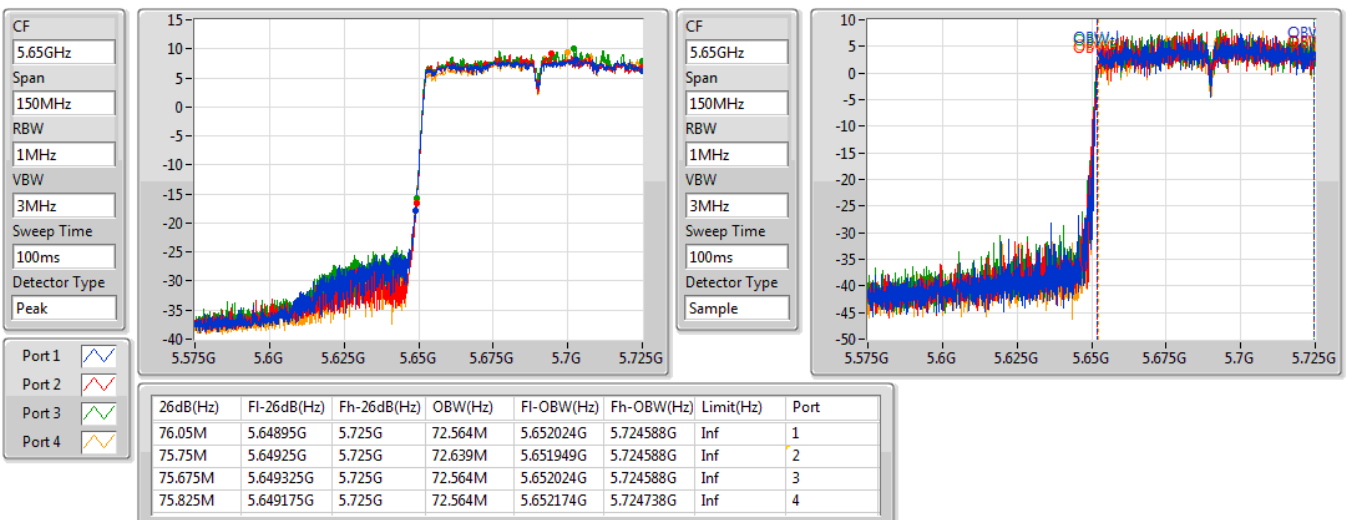


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5610MHz

11/04/2019

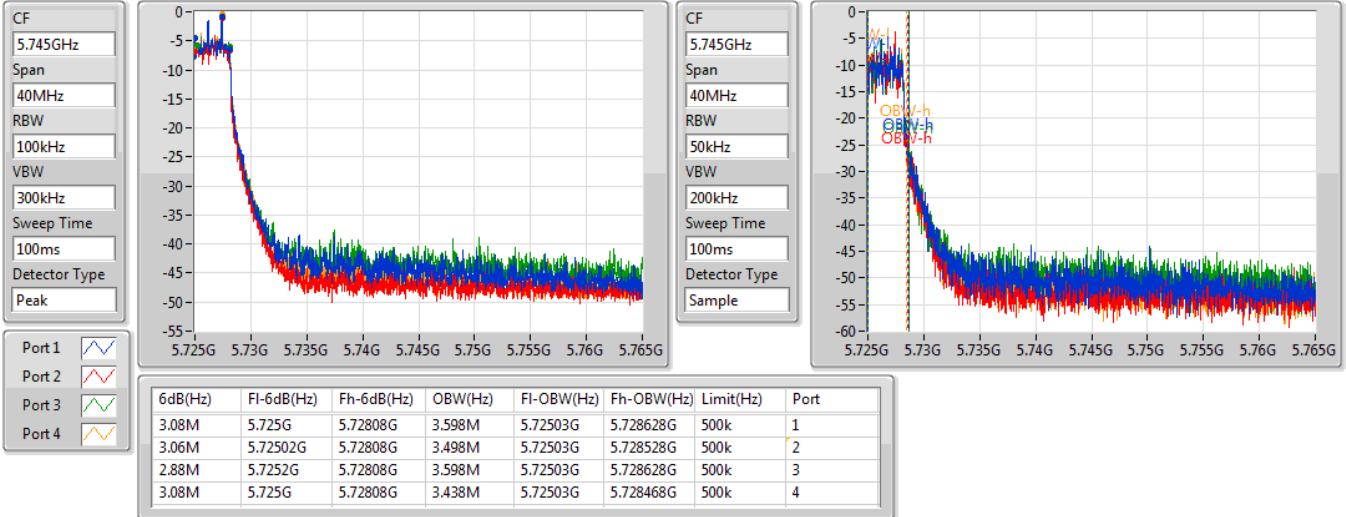

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

11/04/2019

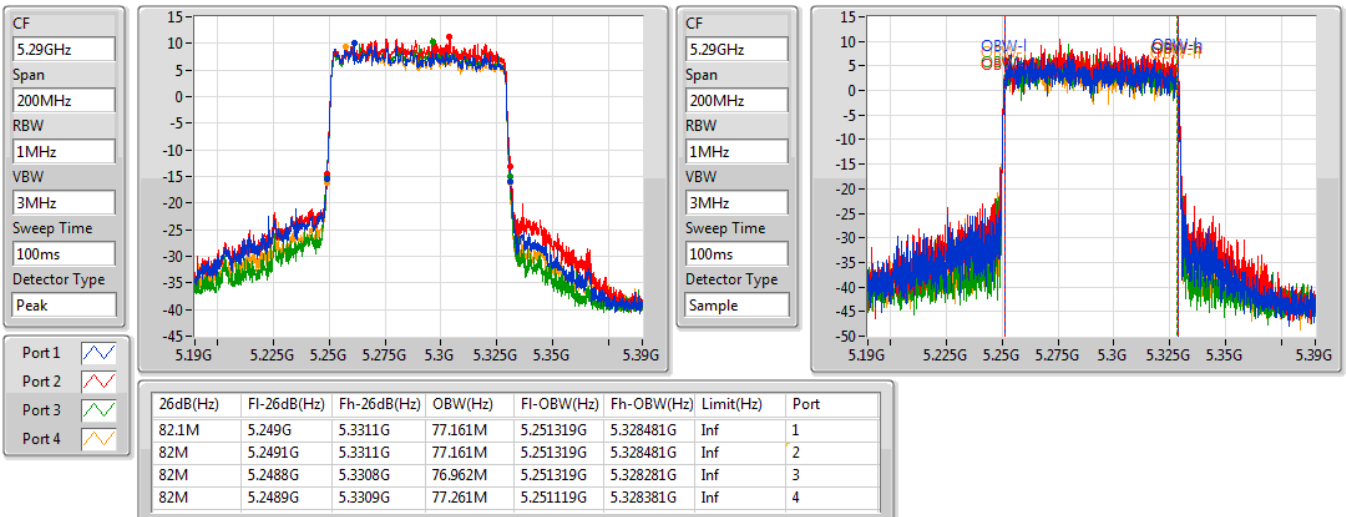


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

11/04/2019

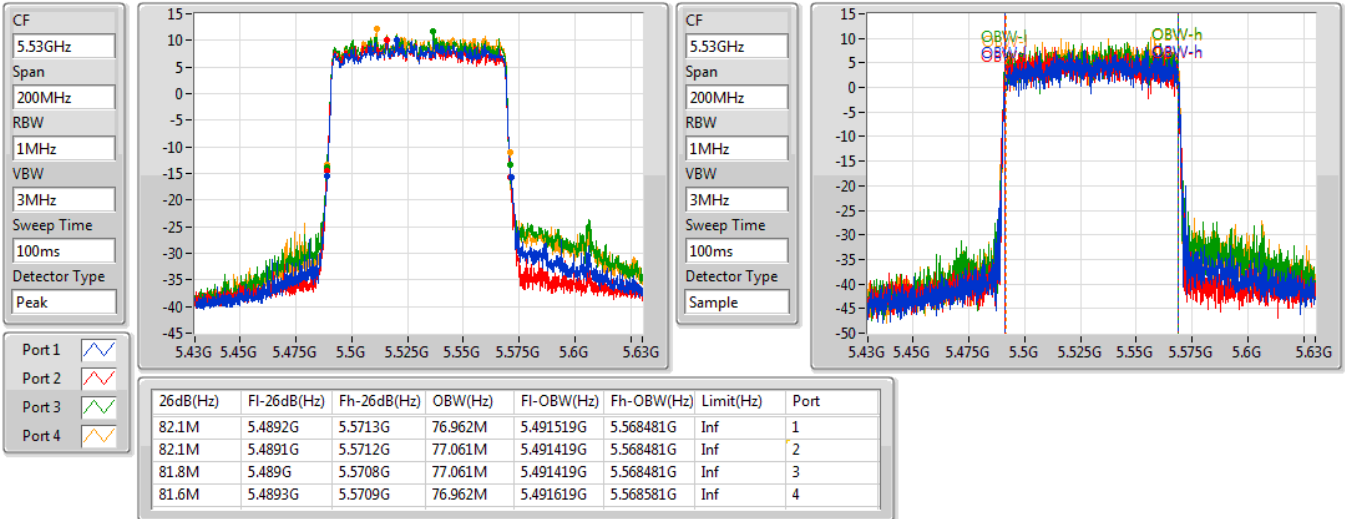

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5290MHz

11/04/2019

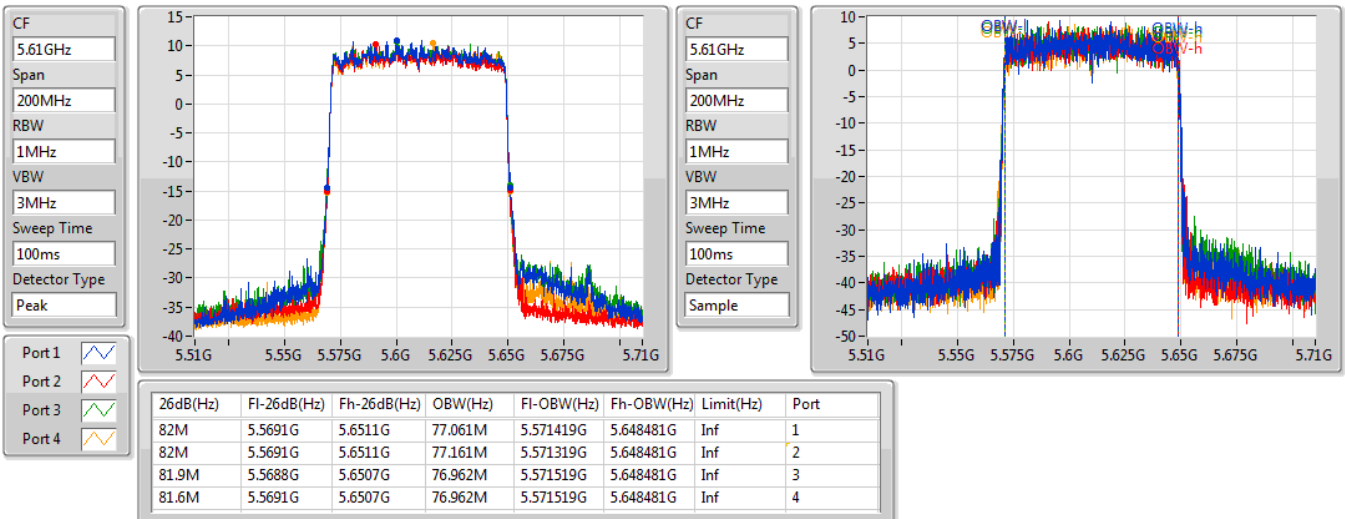


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5530MHz

10/04/2019

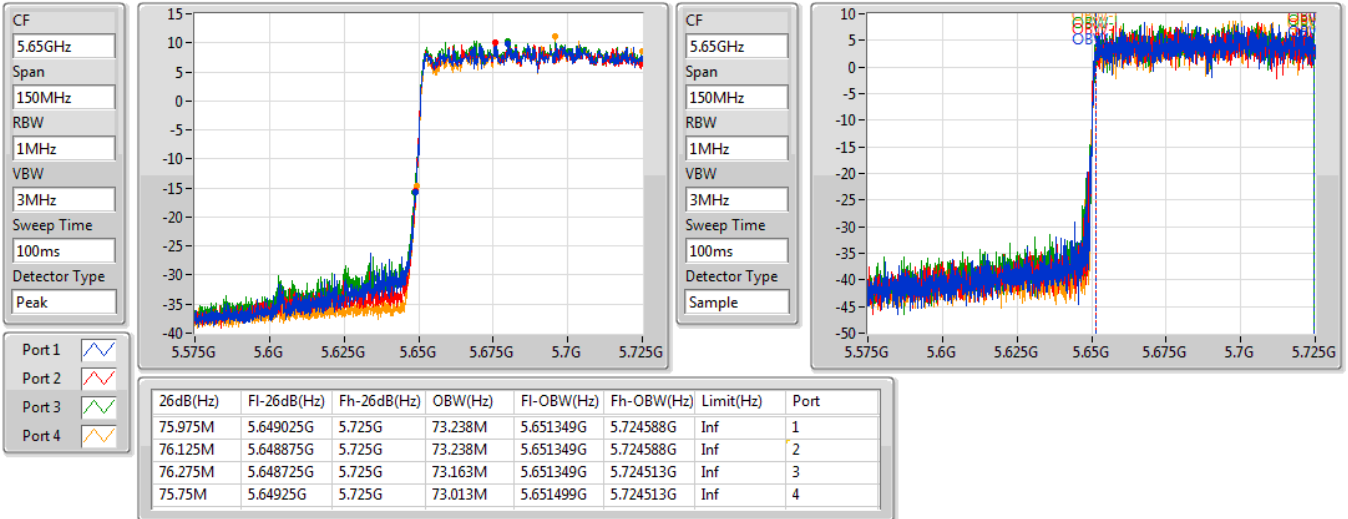

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5610MHz

10/04/2019

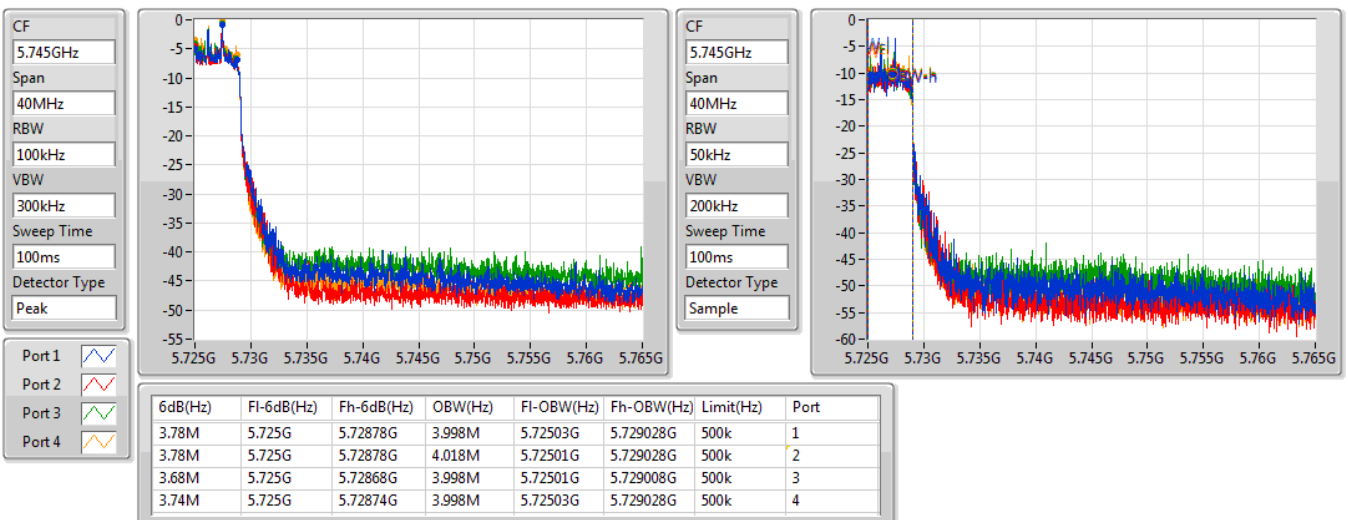


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

10/04/2019

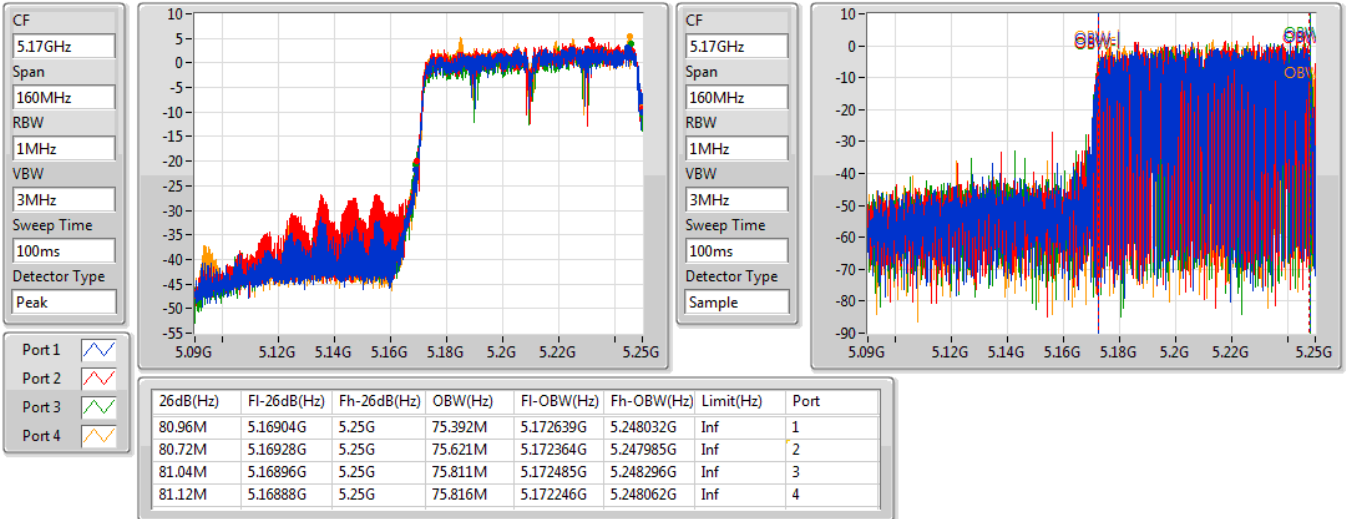

802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

10/04/2019

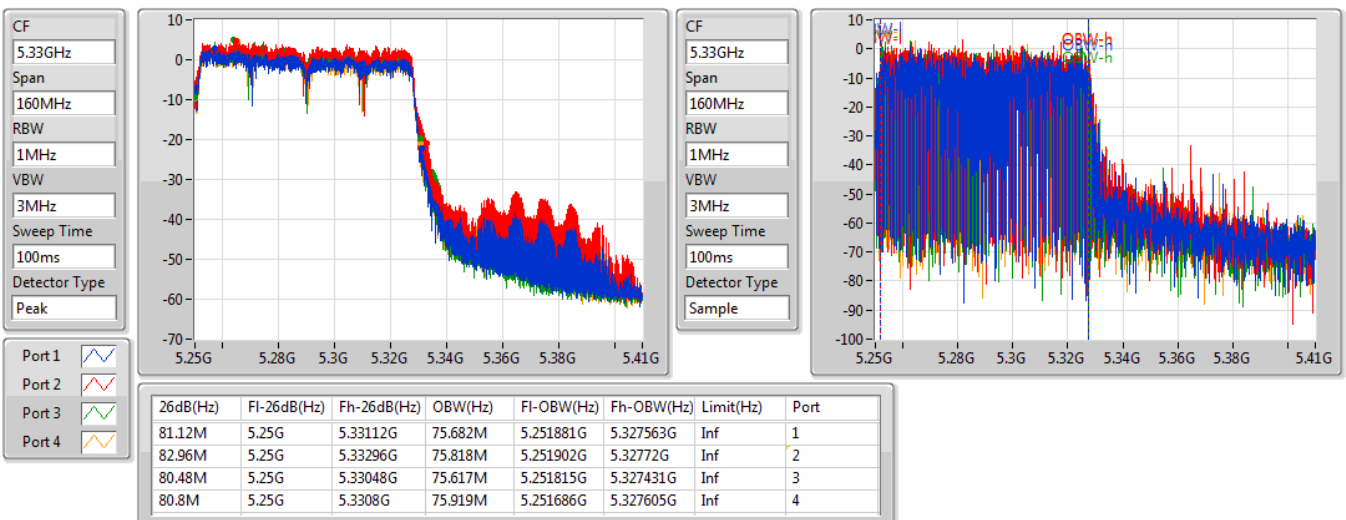


802.11ac VHT160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

15/07/2019

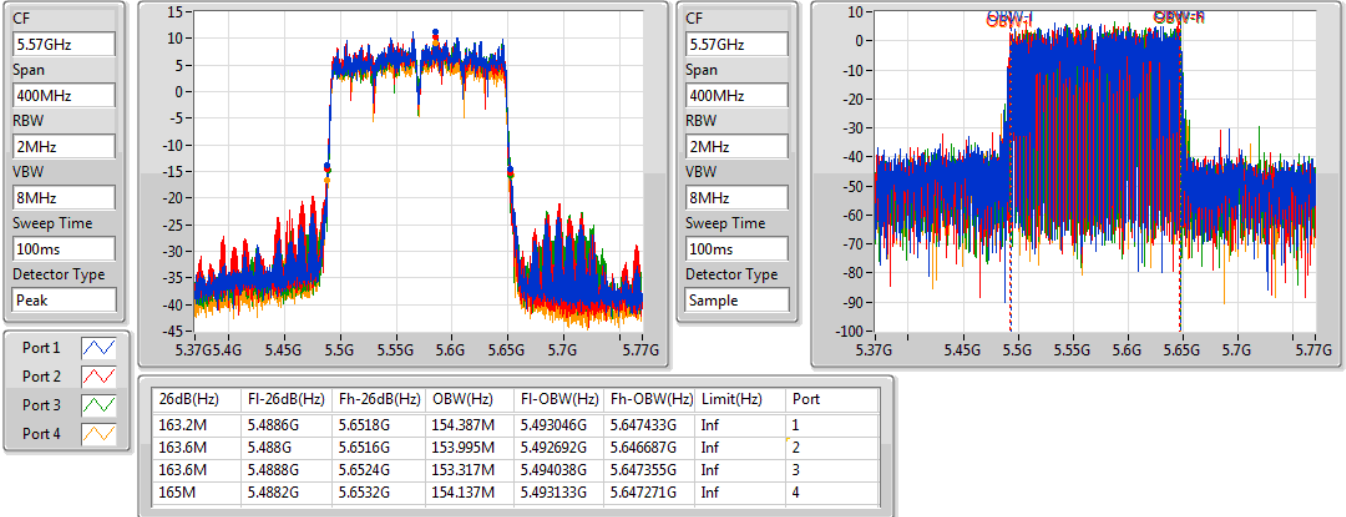

802.11ac VHT160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

15/07/2019

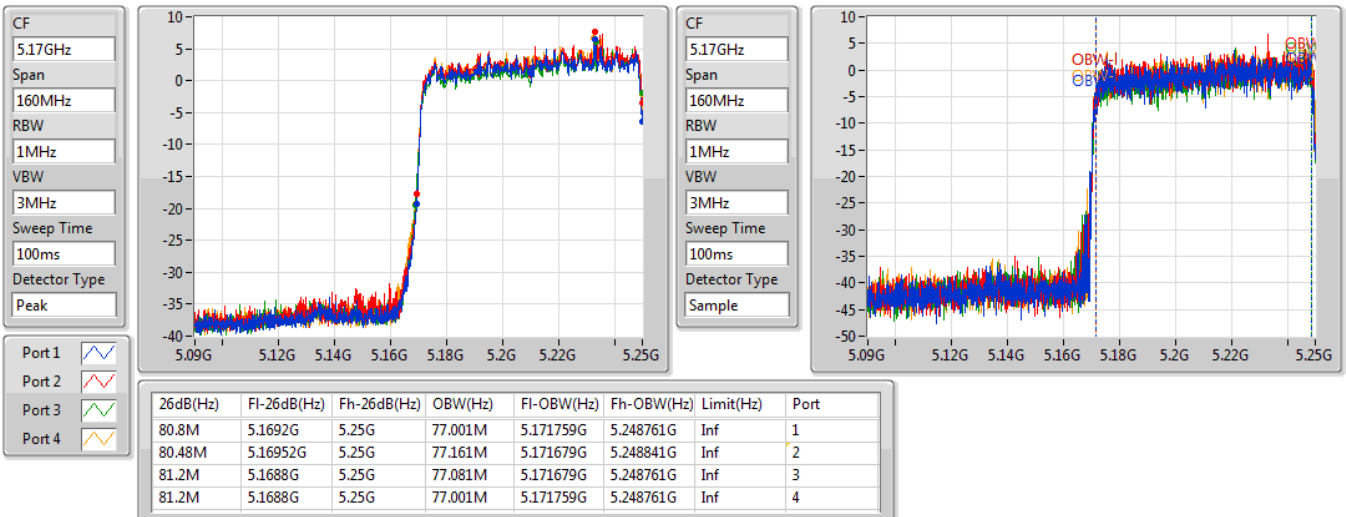


802.11ac VHT160_Nss1,(MCS0)_4TX
EBW
5570MHz

15/07/2019

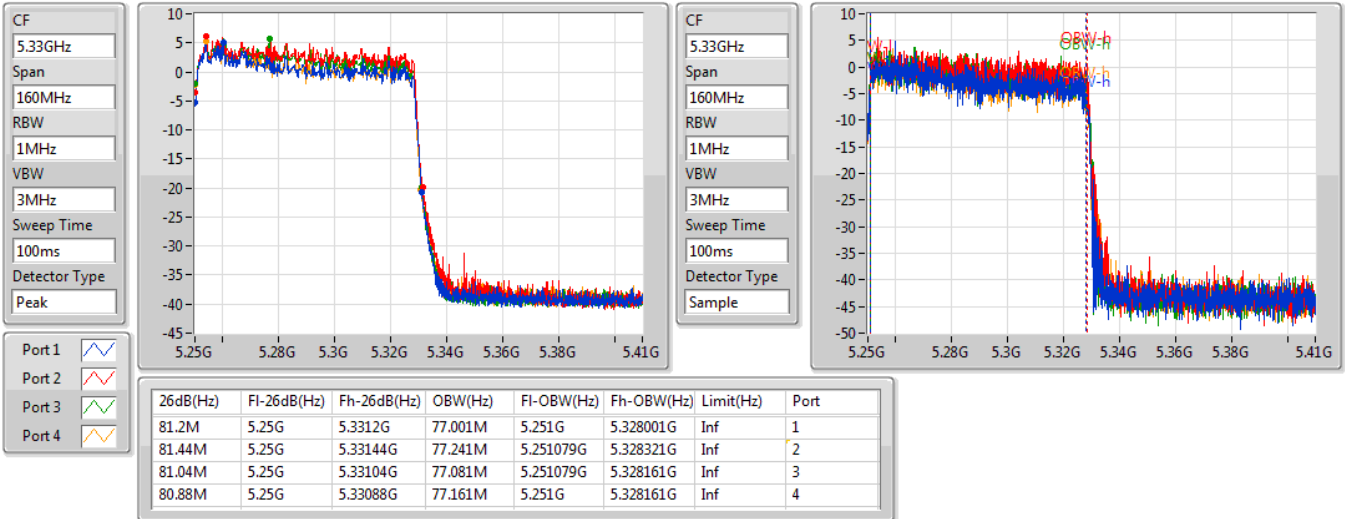

802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

11/04/2019

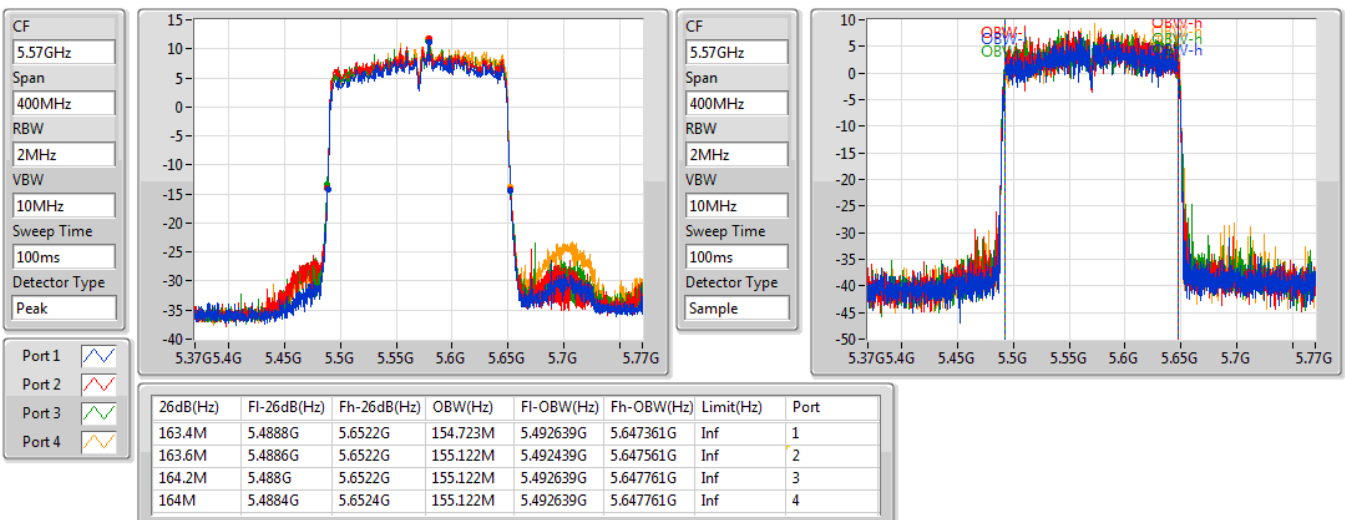


802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

11/04/2019


802.11ax HEW160_Nss1,(MCS0)_4TX
EBW
5570MHz

10/04/2019

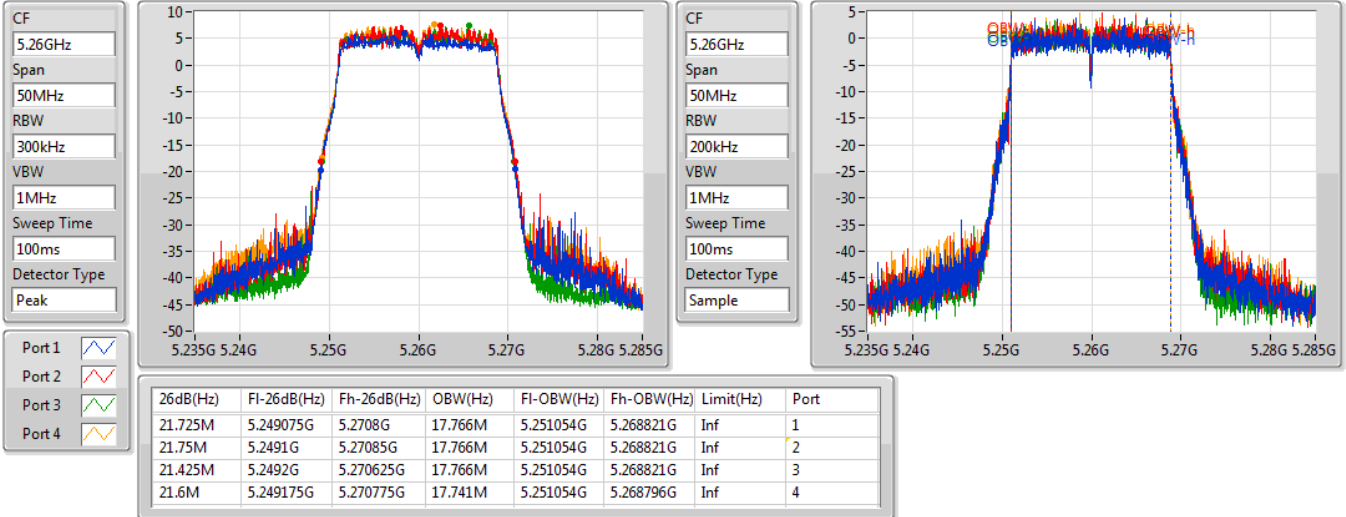


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5260MHz

11/04/2019

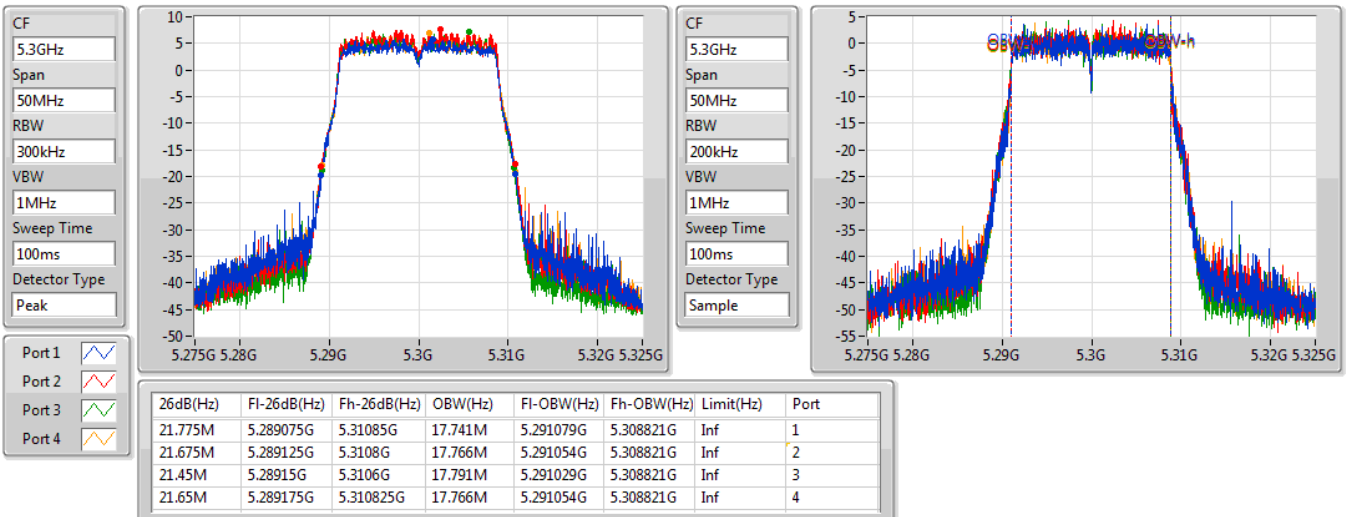


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

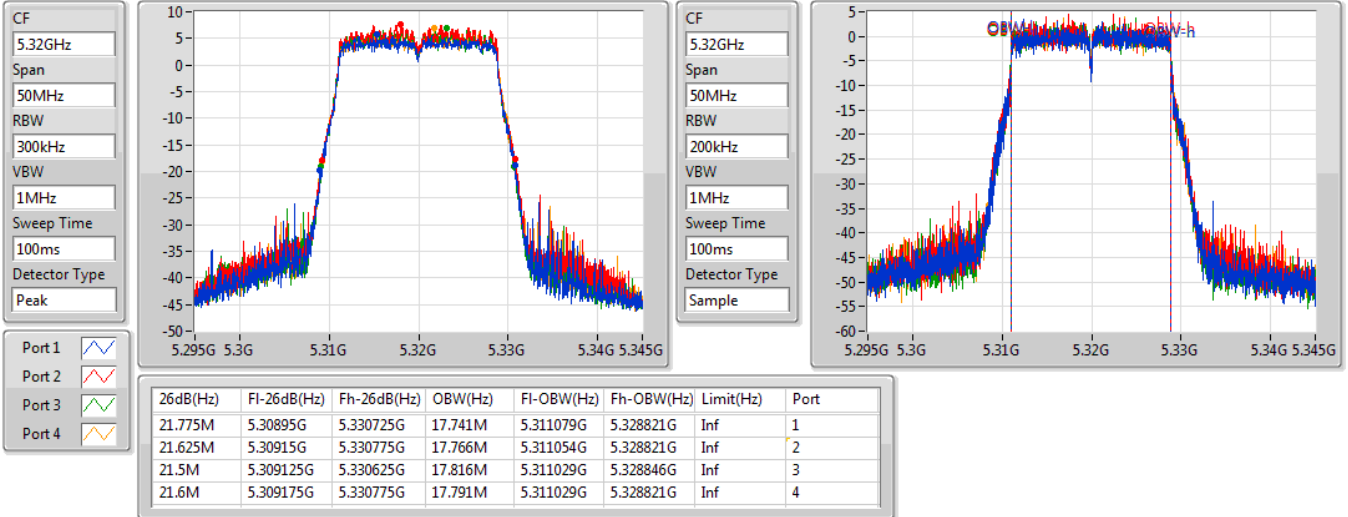
5300MHz

11/04/2019

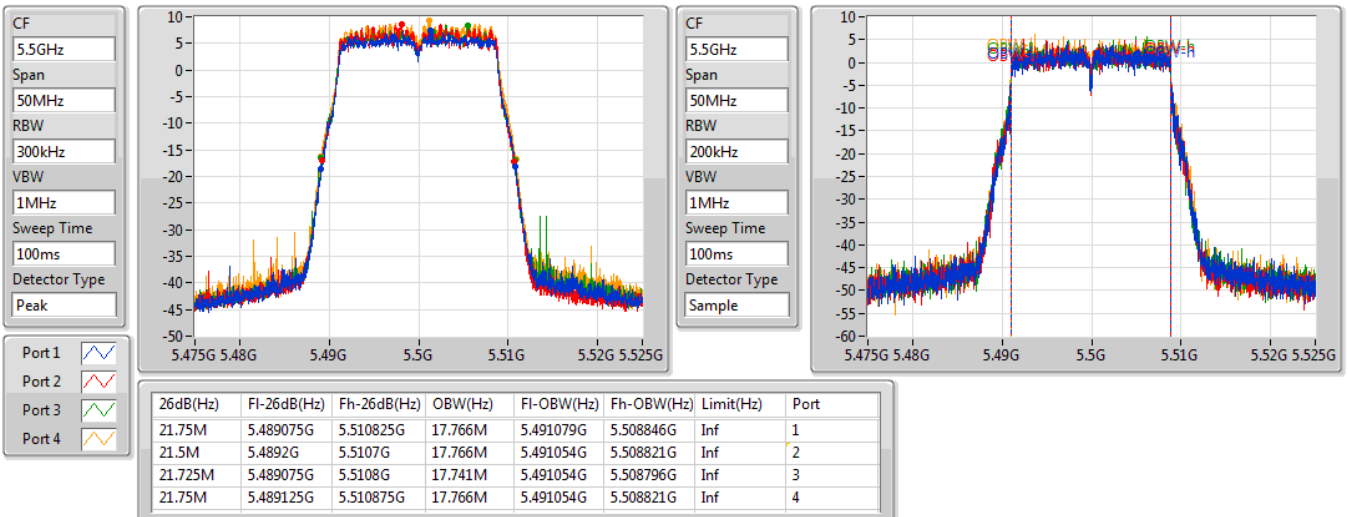


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5320MHz

11/04/2019

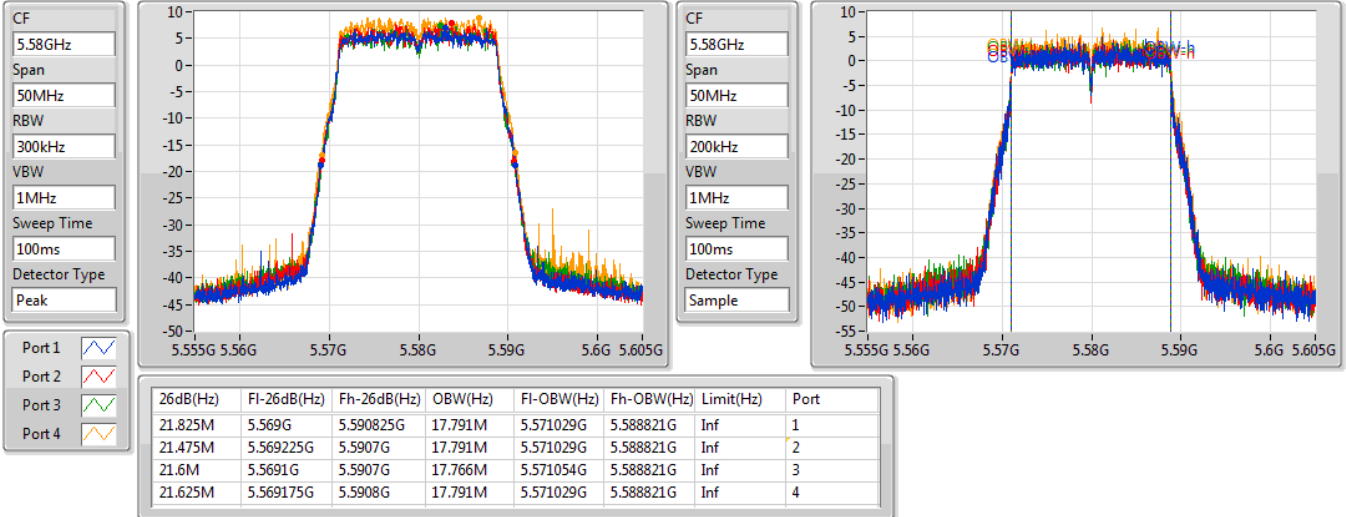

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

11/04/2019

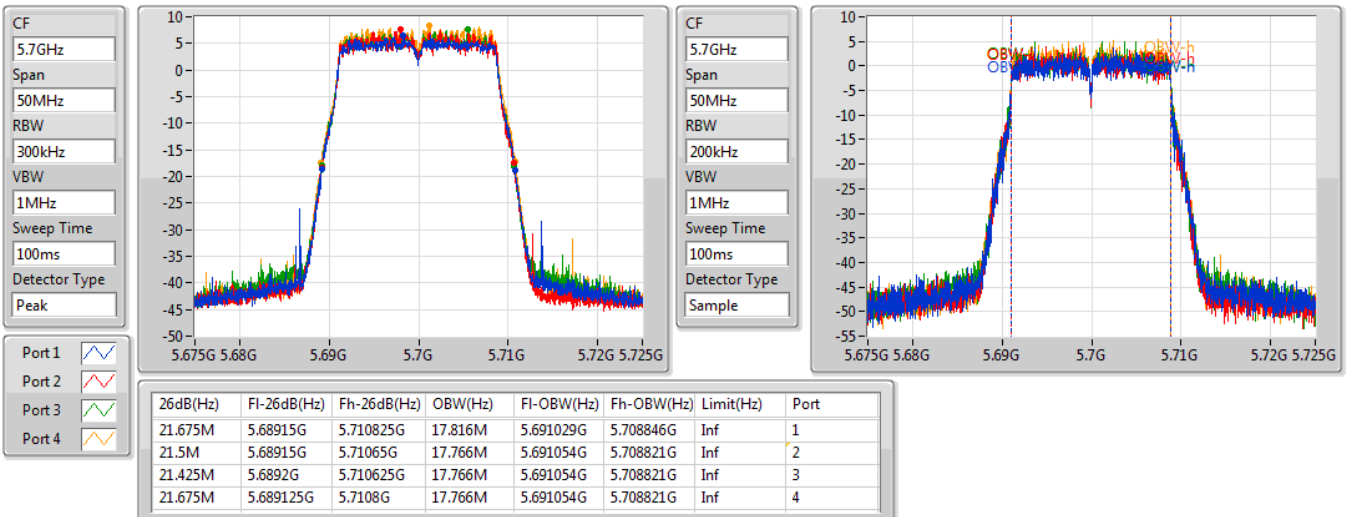


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

11/04/2019

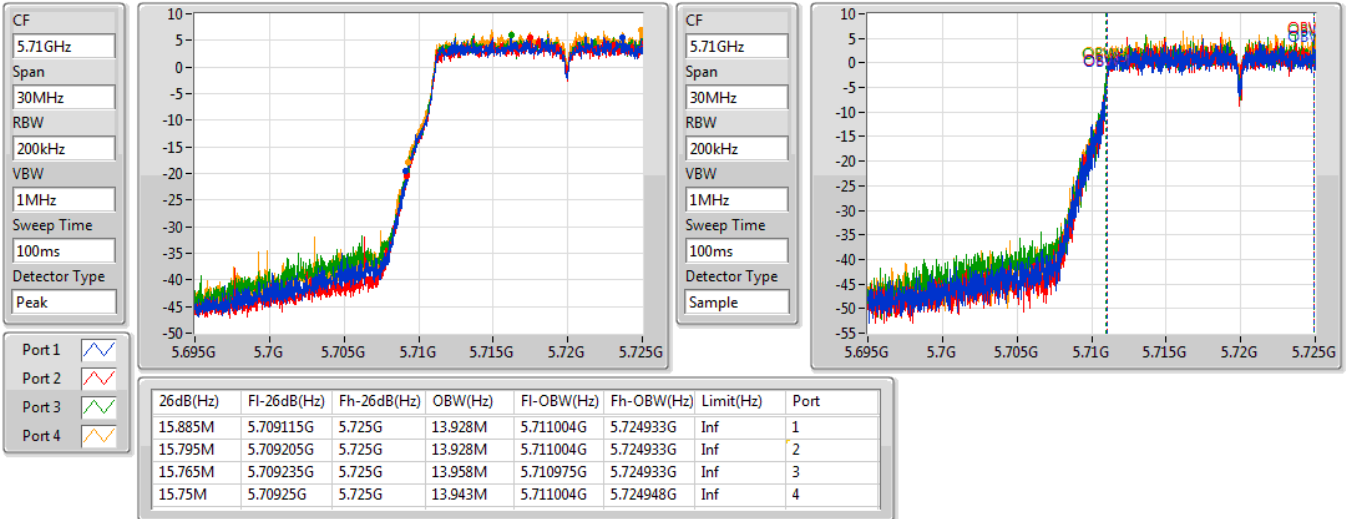

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

11/04/2019

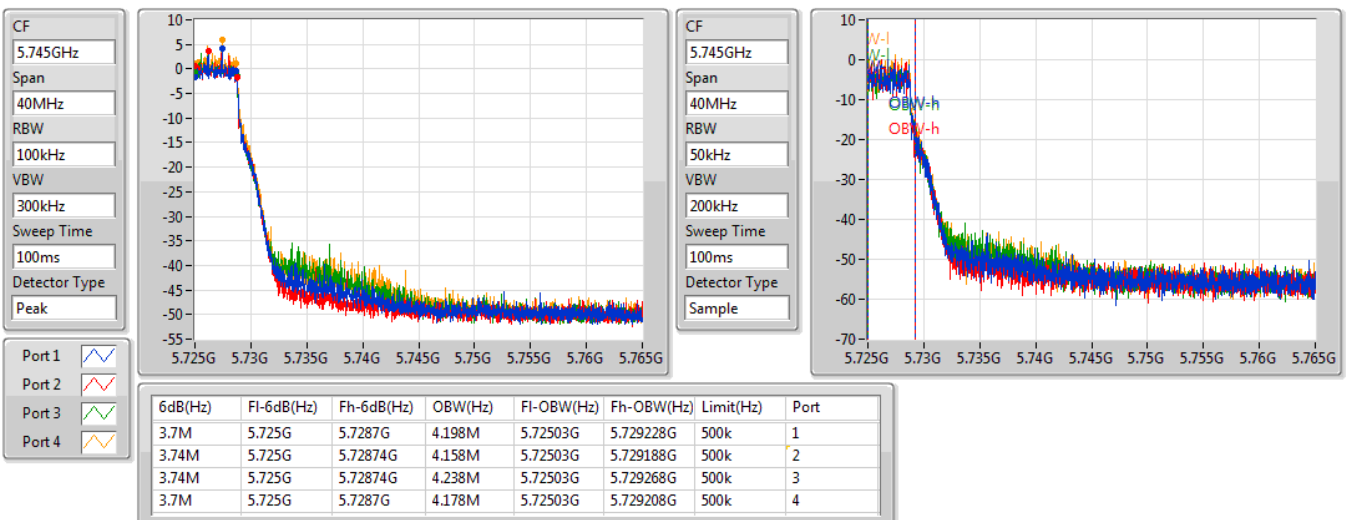


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

11/04/2019


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

11/04/2019

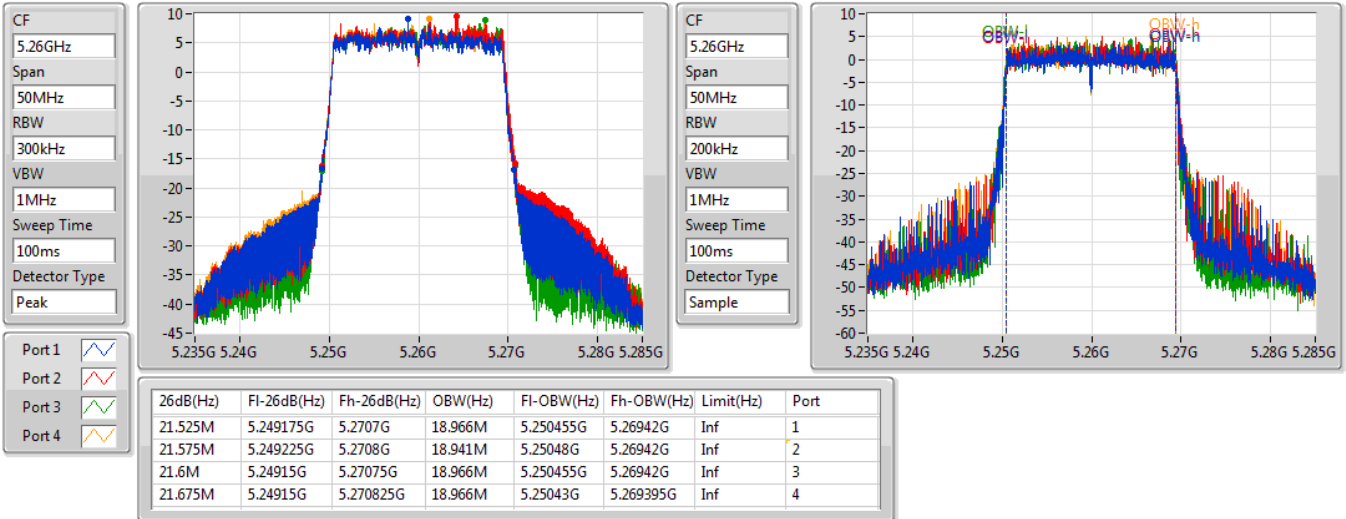


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5260MHz

11/04/2019

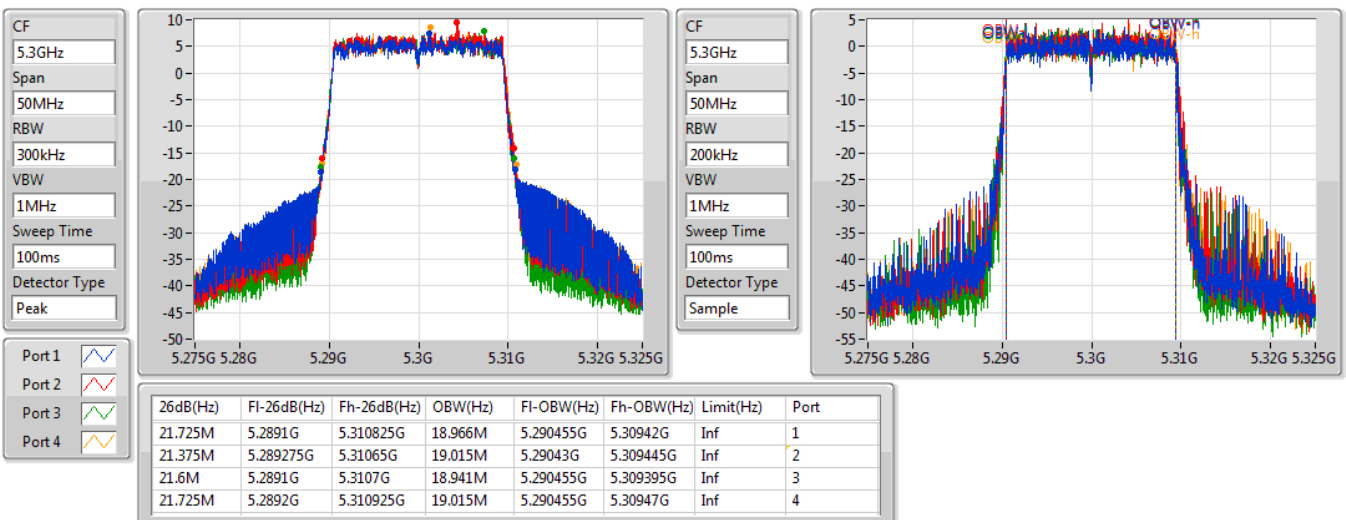


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

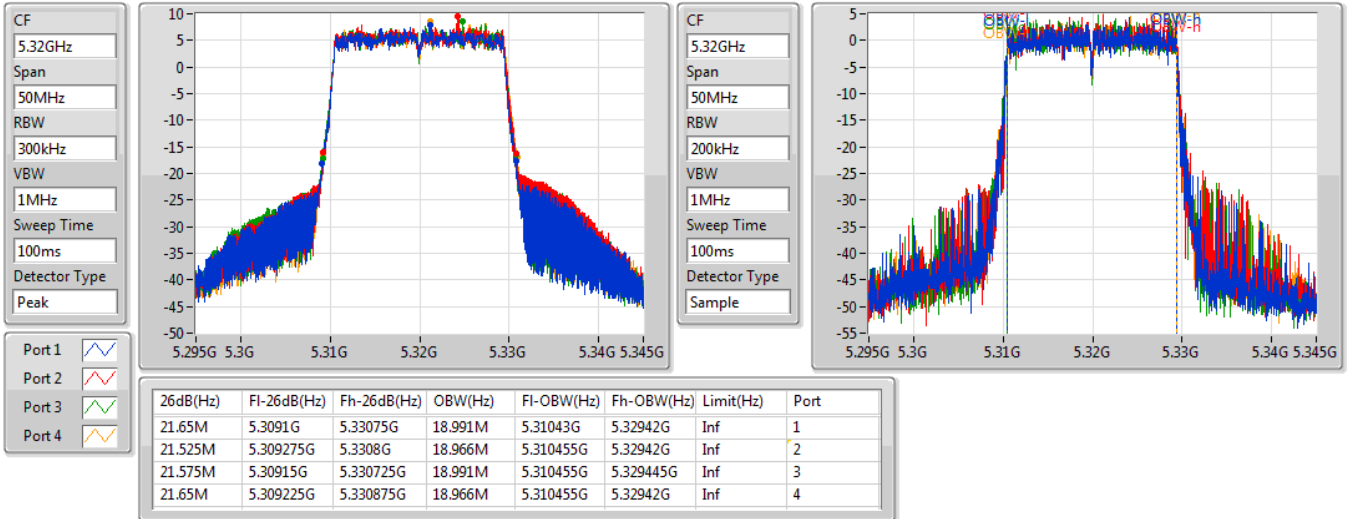
5300MHz

11/04/2019

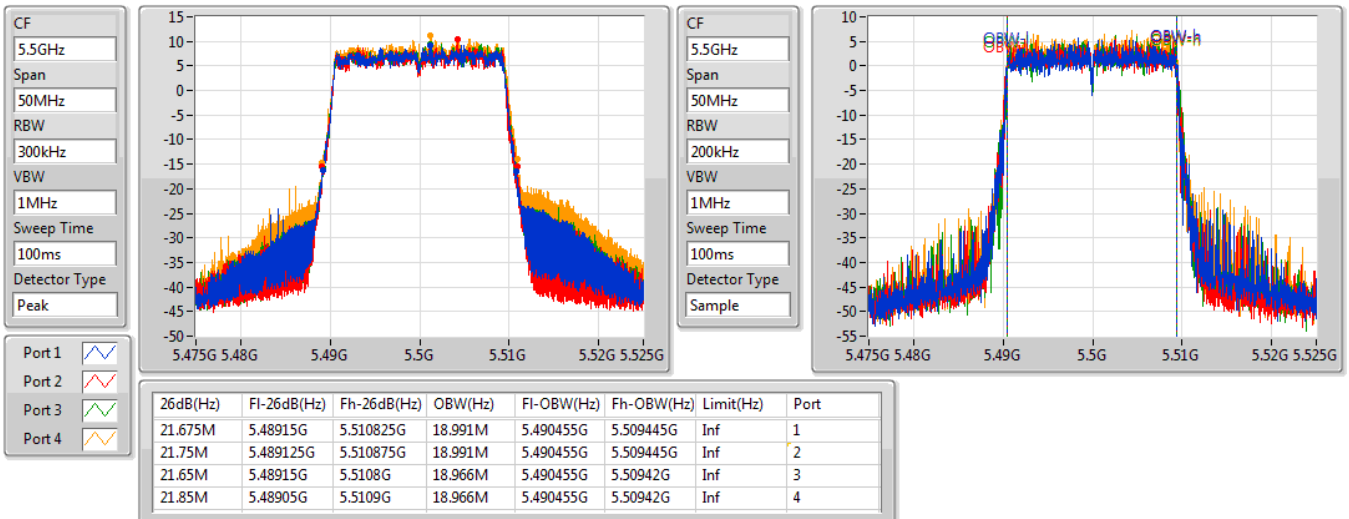


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5320MHz

11/04/2019


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

10/04/2019

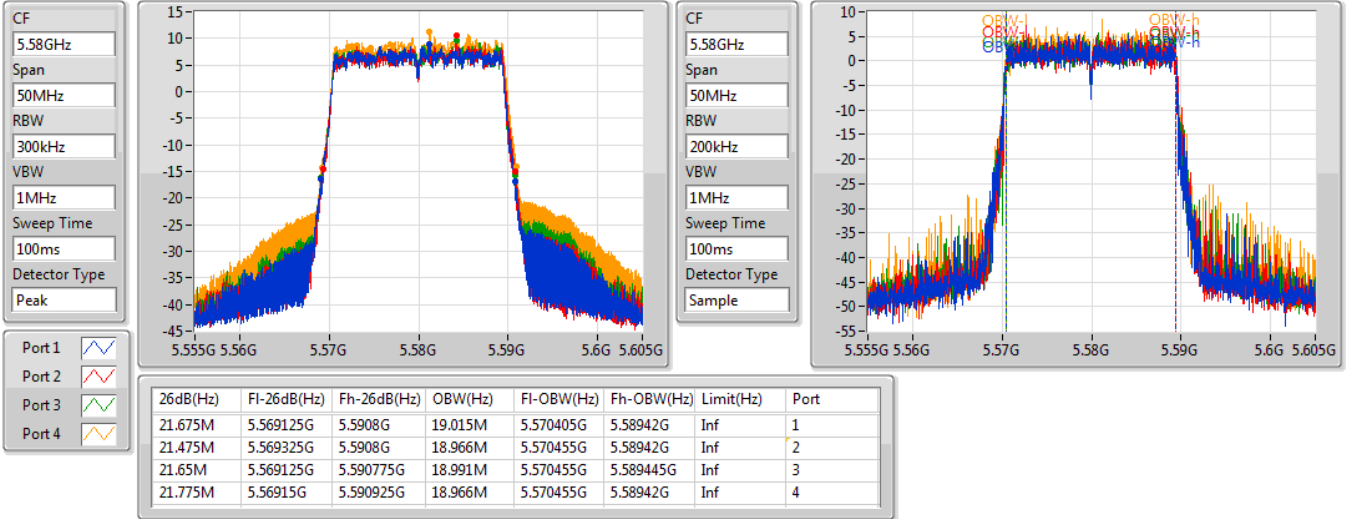


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5580MHz

10/04/2019

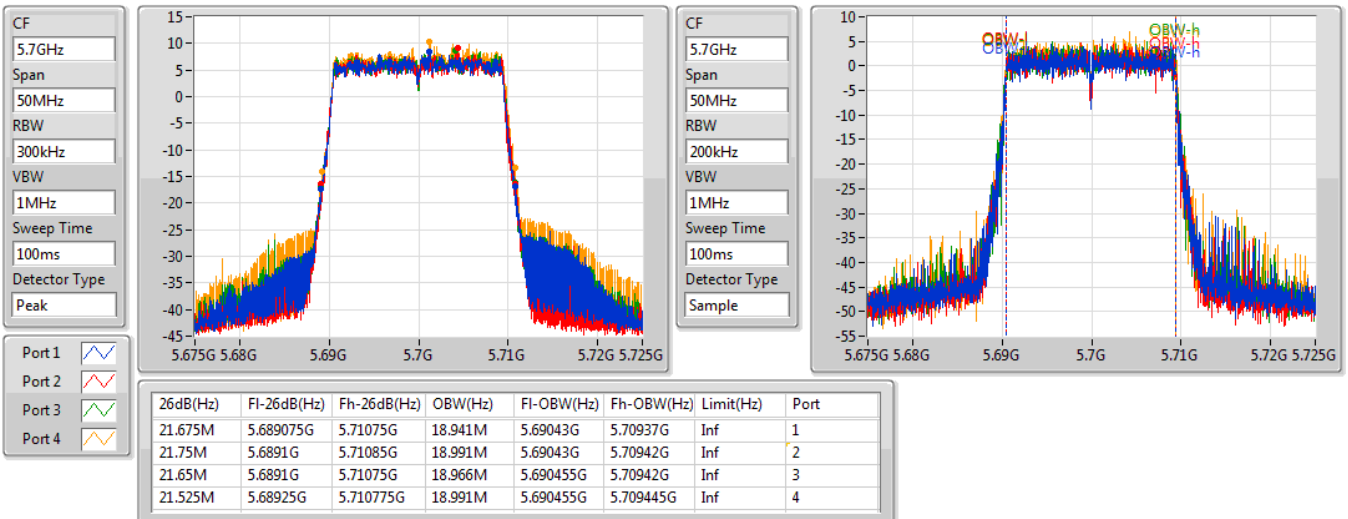


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

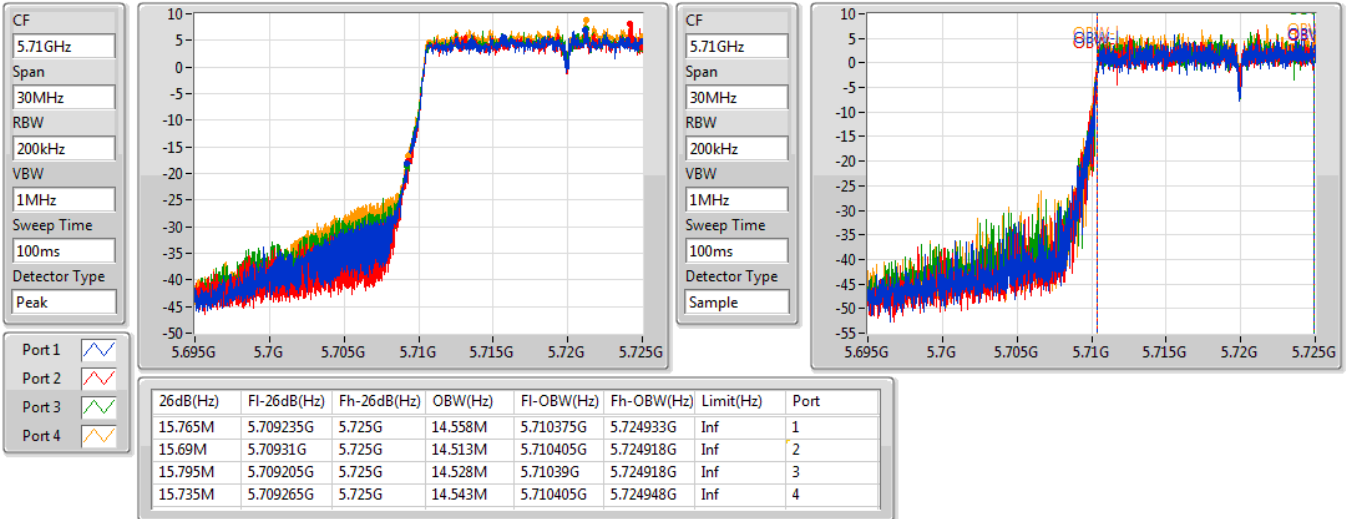
5700MHz

10/04/2019

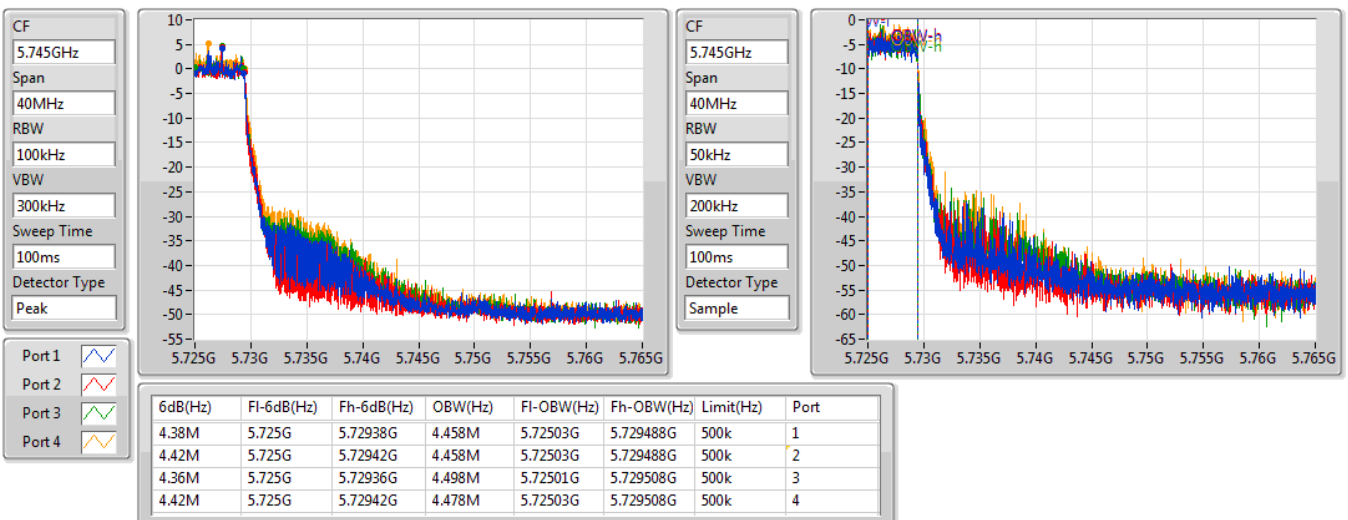


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

11/04/2019

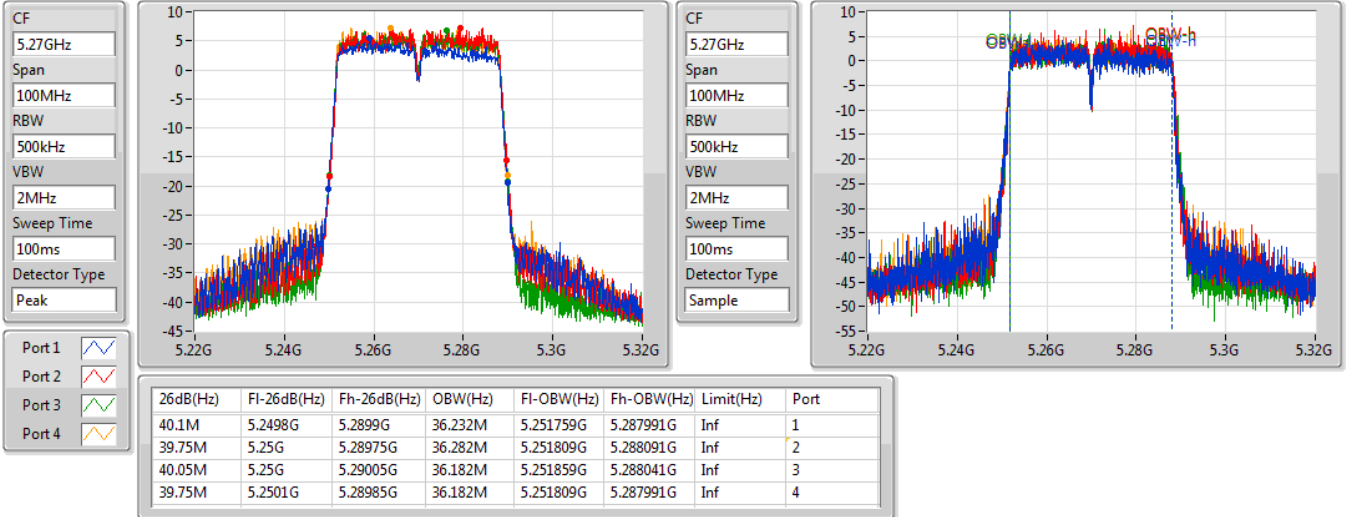

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

11/04/2019

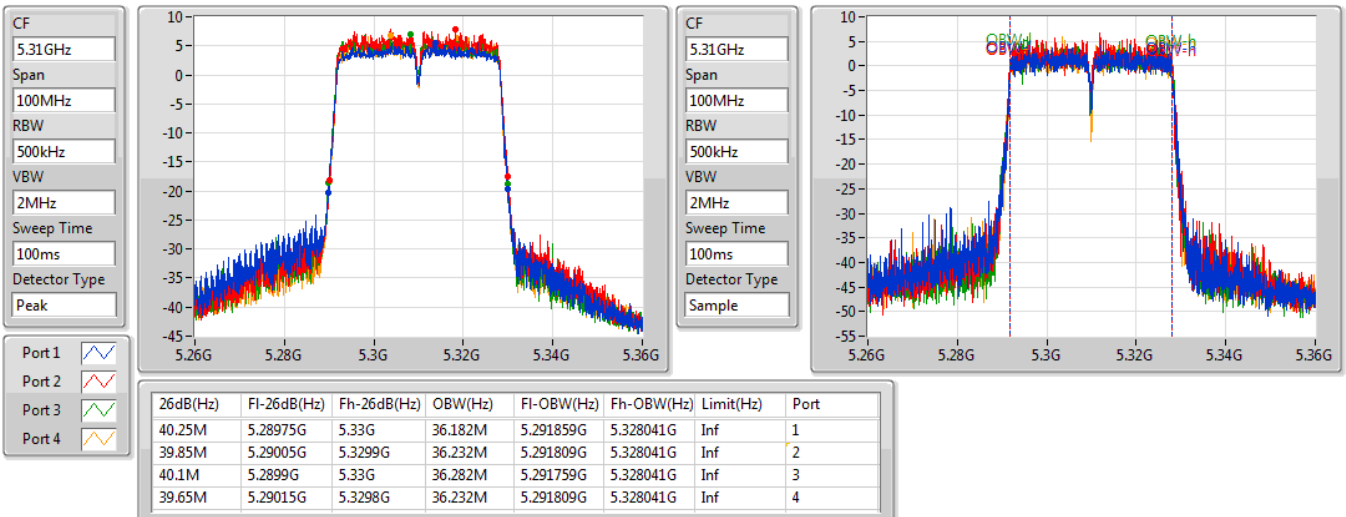


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

11/04/2019

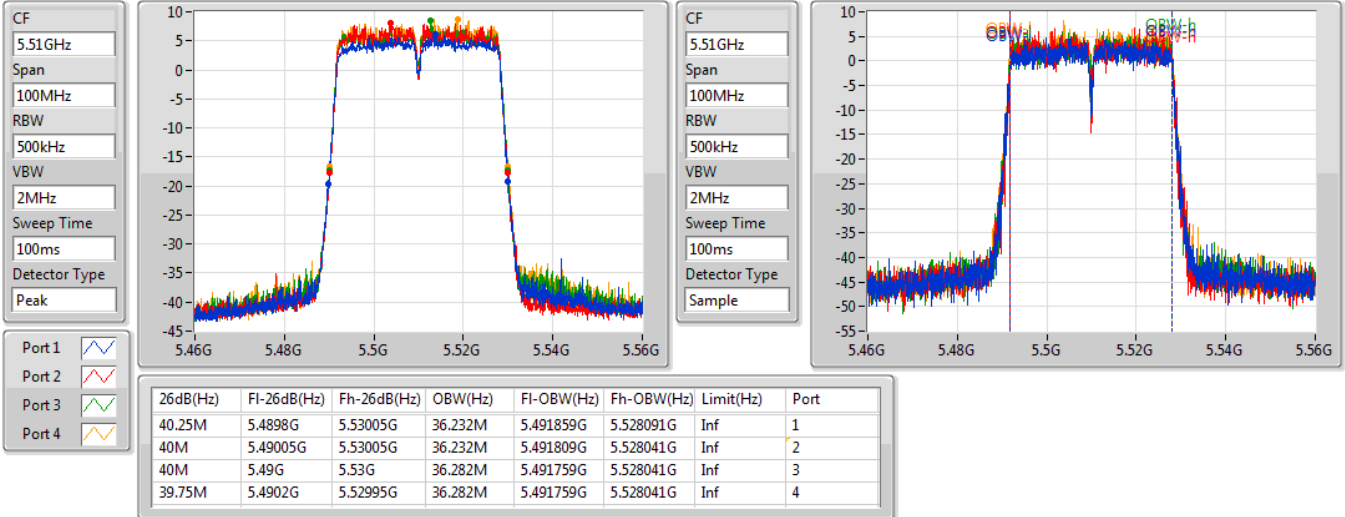

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

11/04/2019

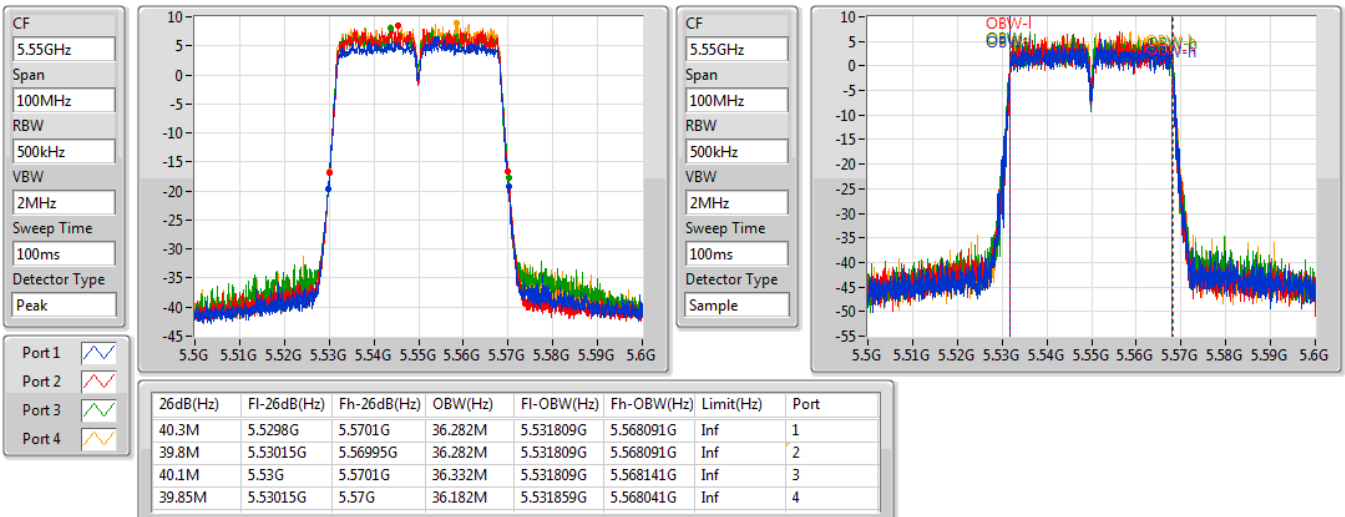


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

11/04/2019

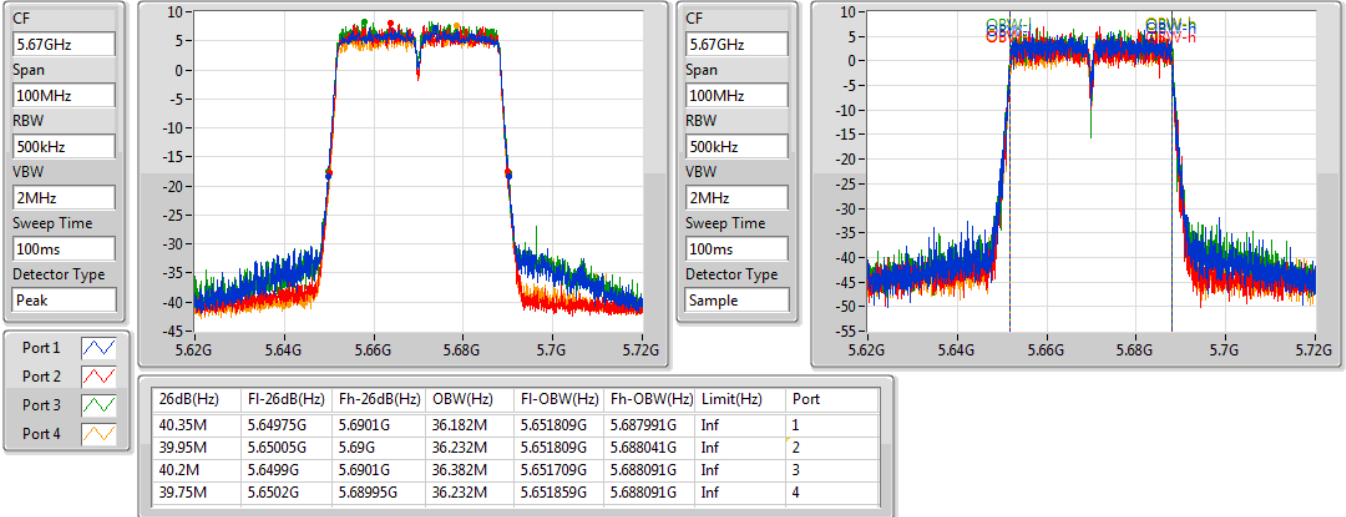

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5550MHz

11/04/2019

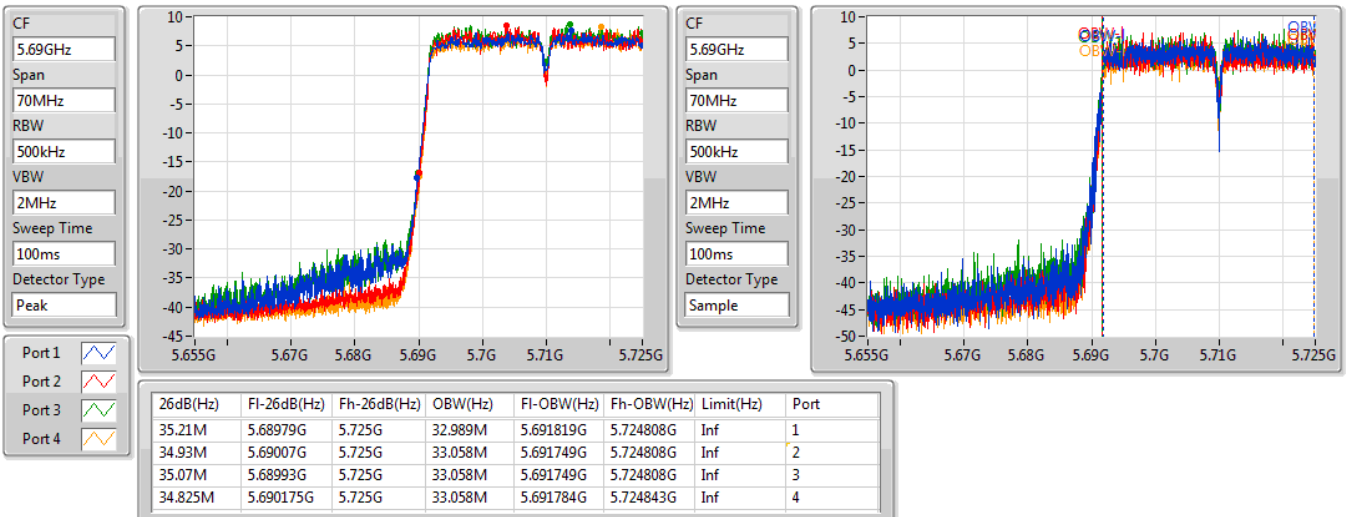


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

11/04/2019

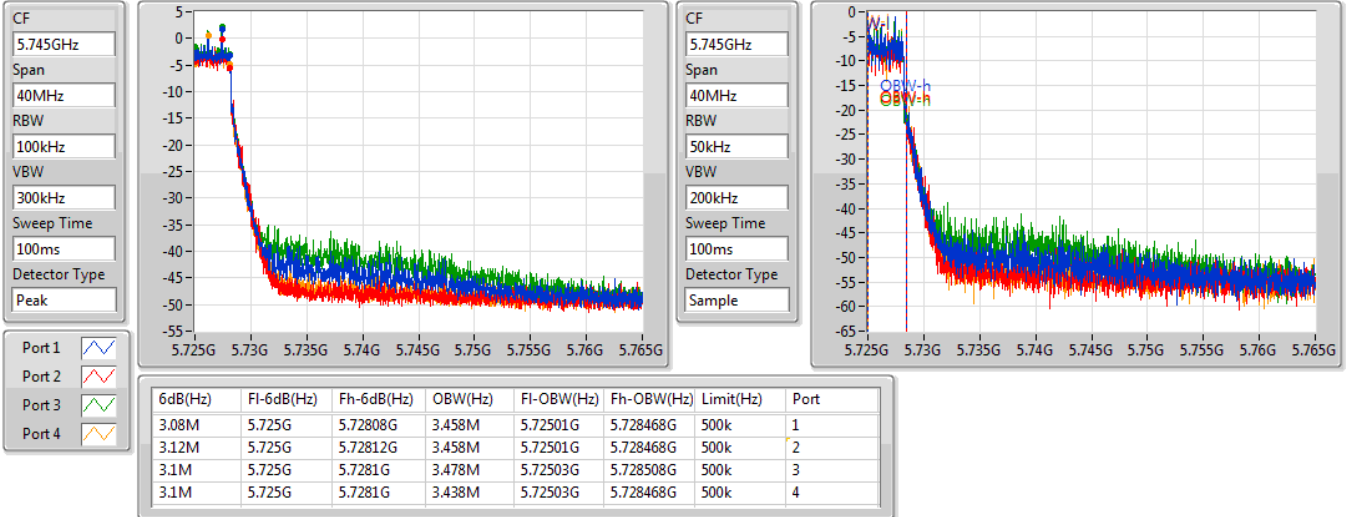

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

11/04/2019

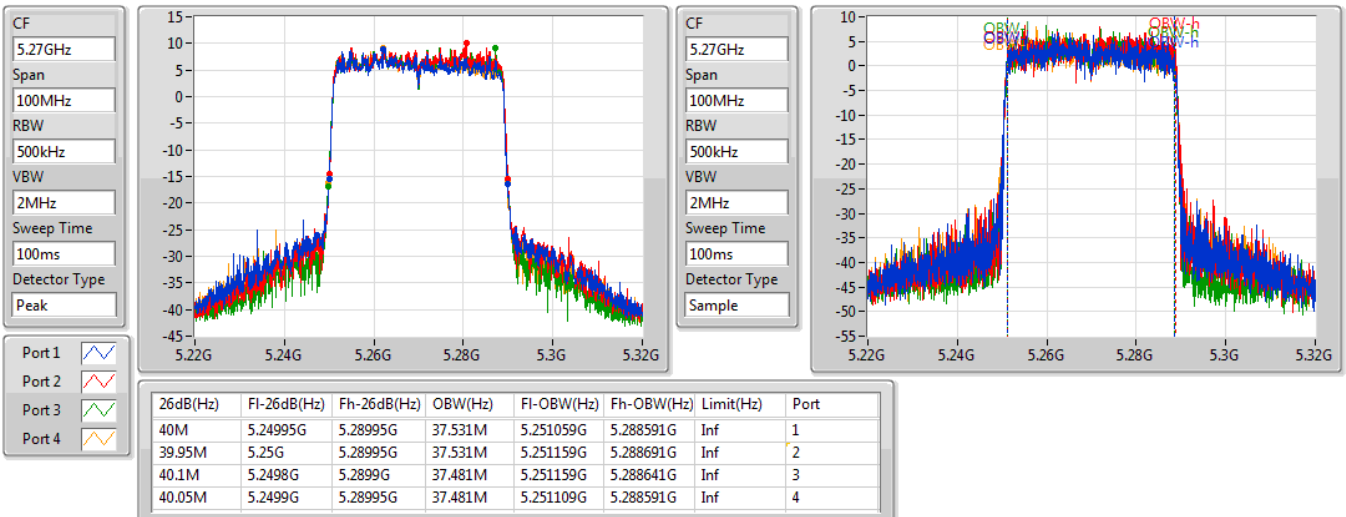


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

11/04/2019

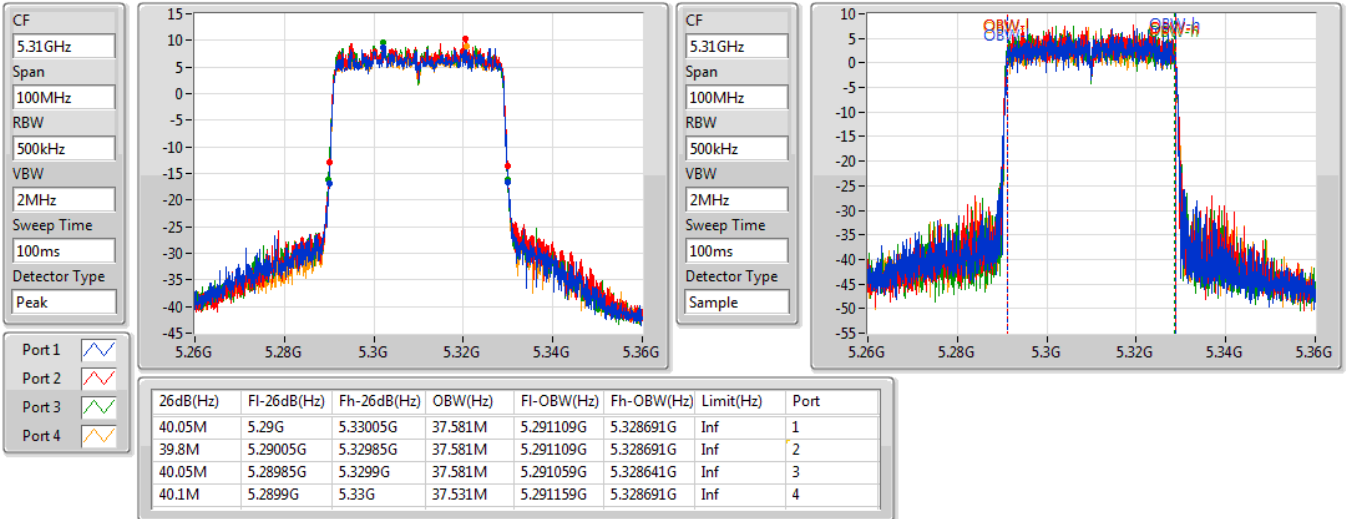

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

11/04/2019

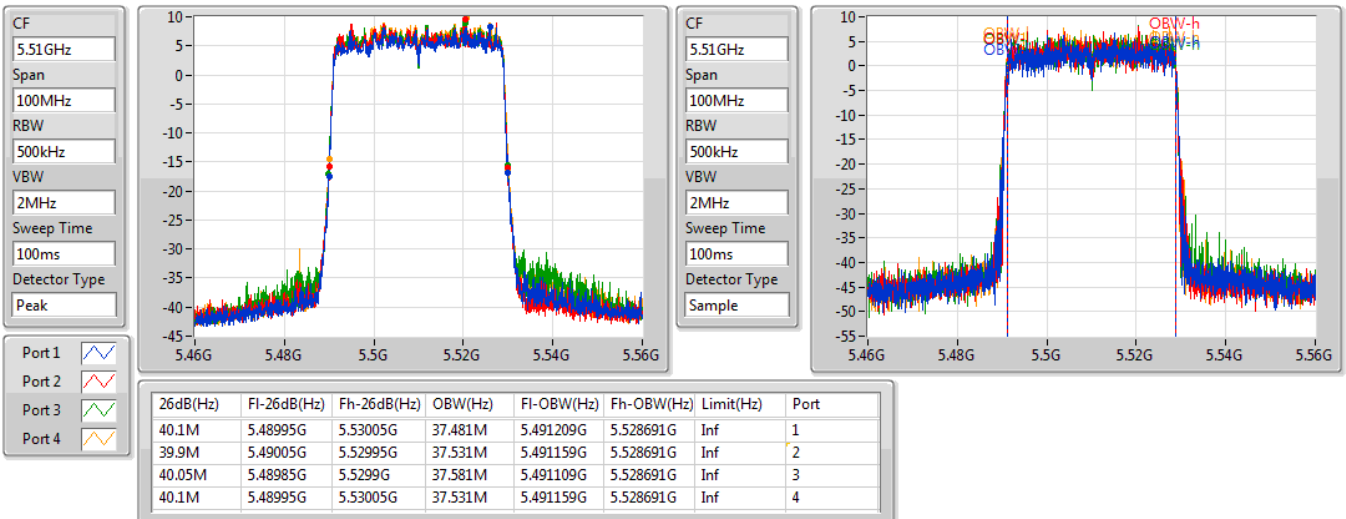


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

11/04/2019


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

10/04/2019

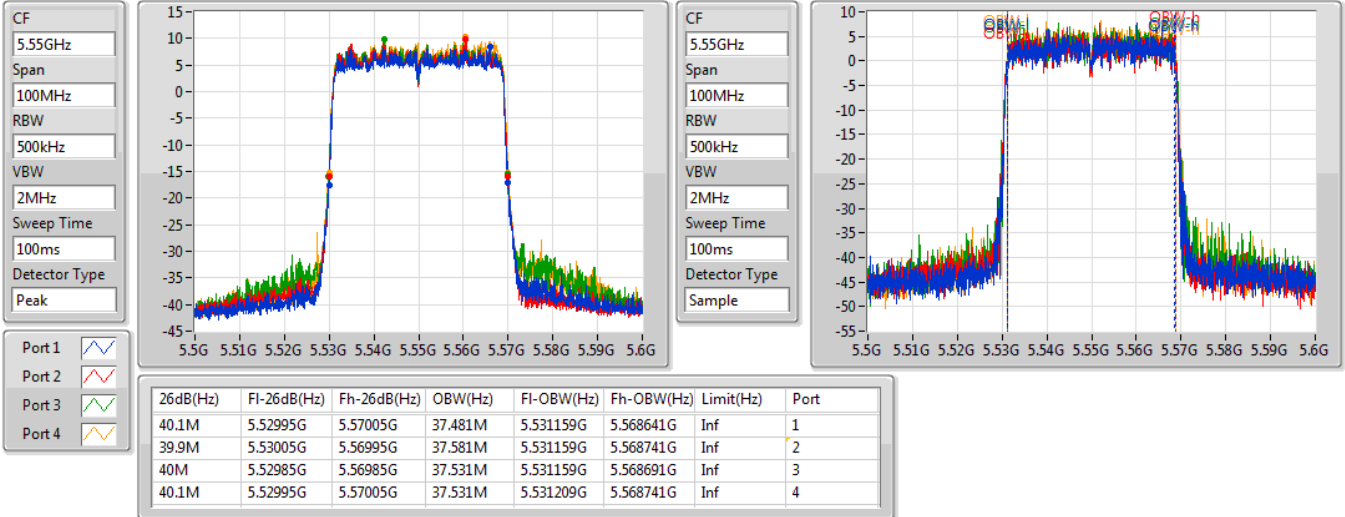


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5550MHz

10/04/2019

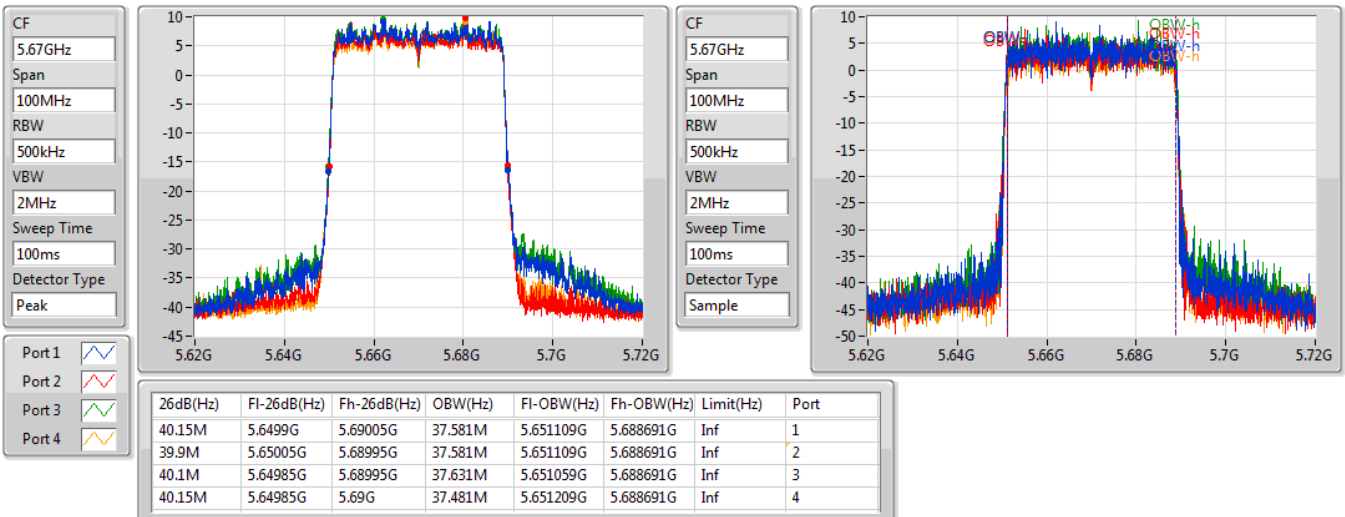


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

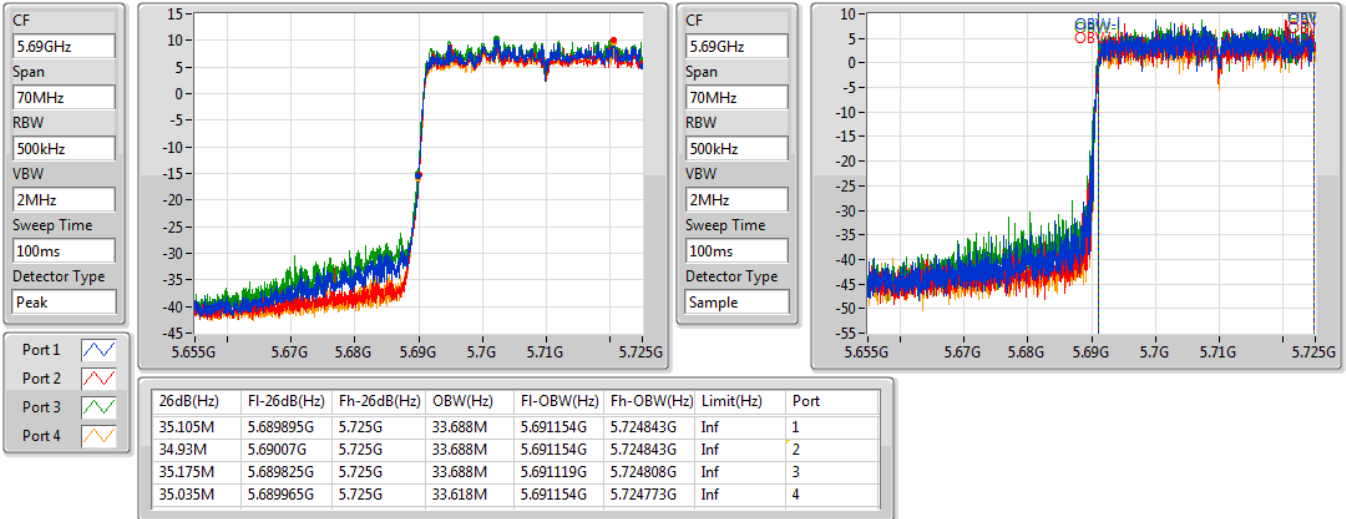
5670MHz

10/04/2019

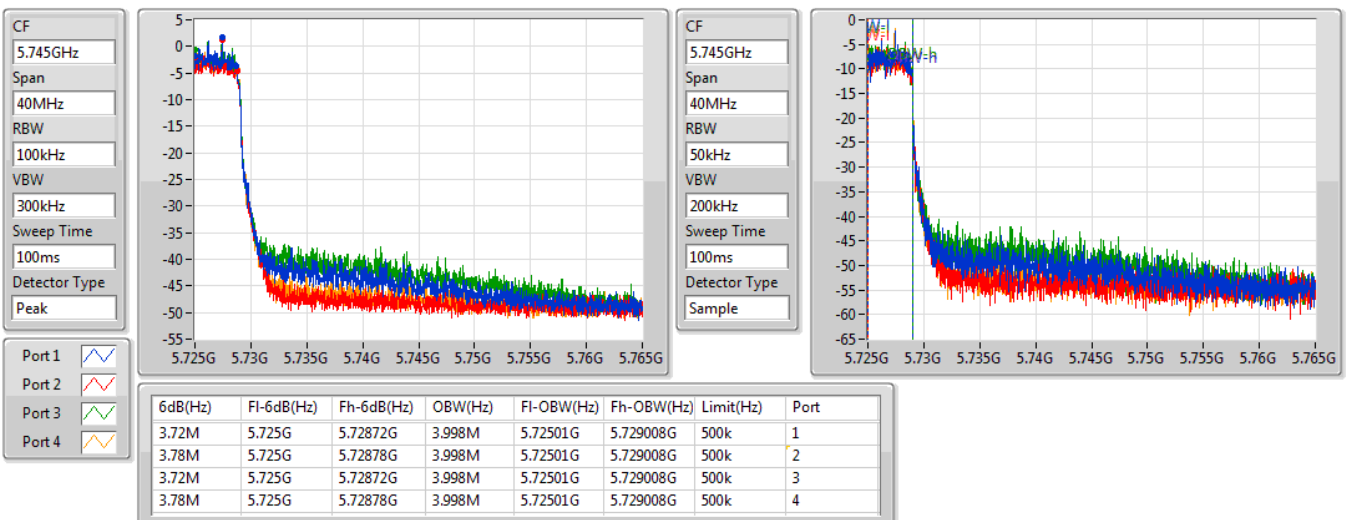


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

10/04/2019

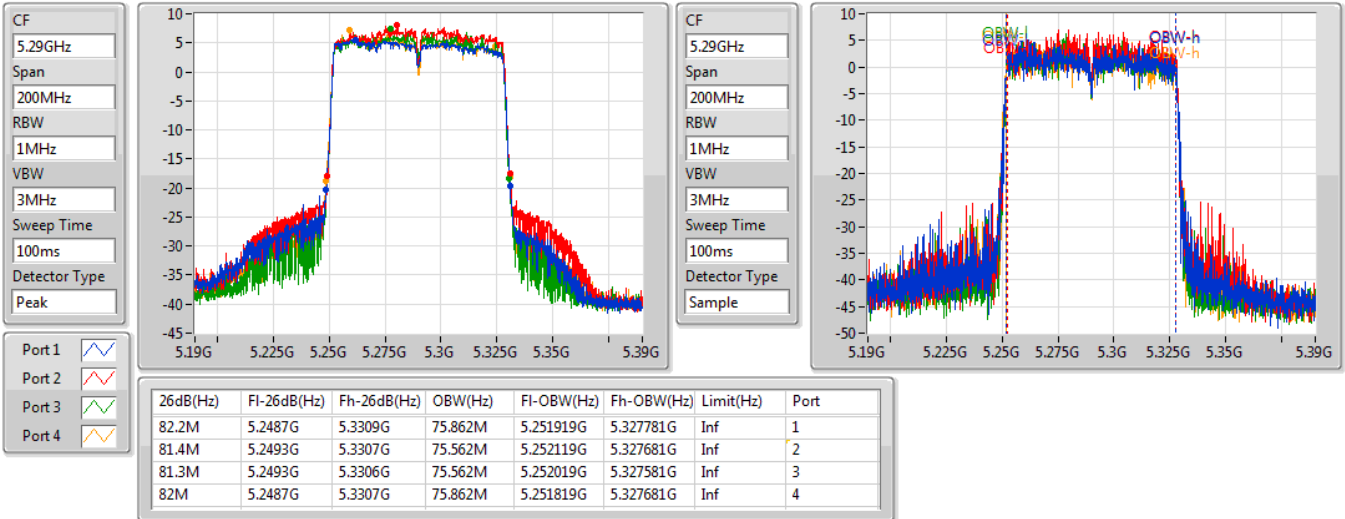

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

10/04/2019

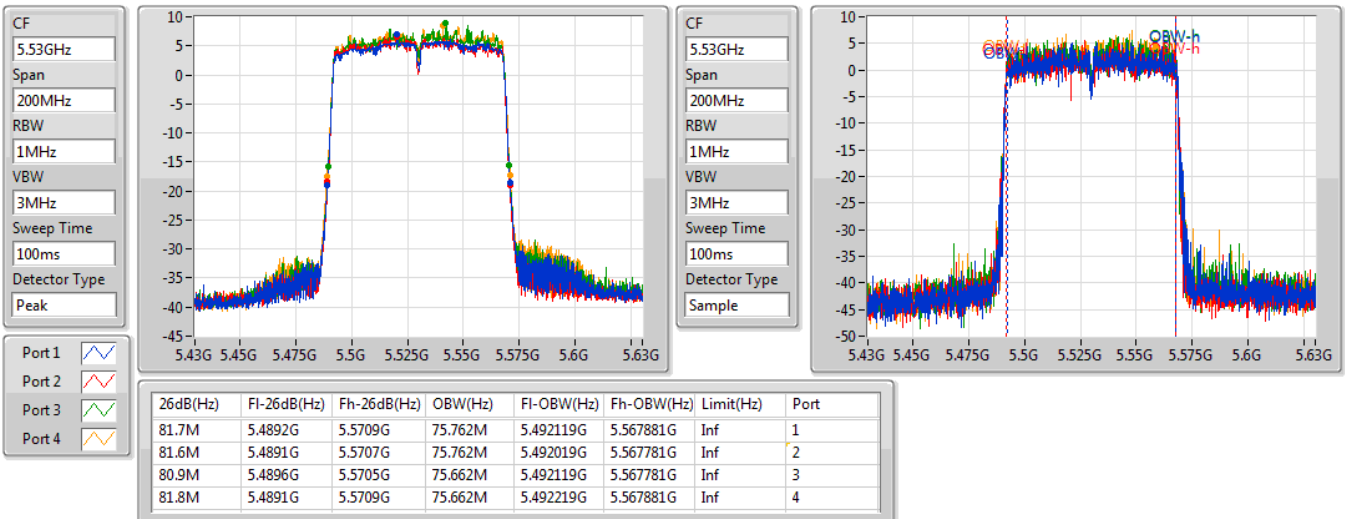


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

11/04/2019

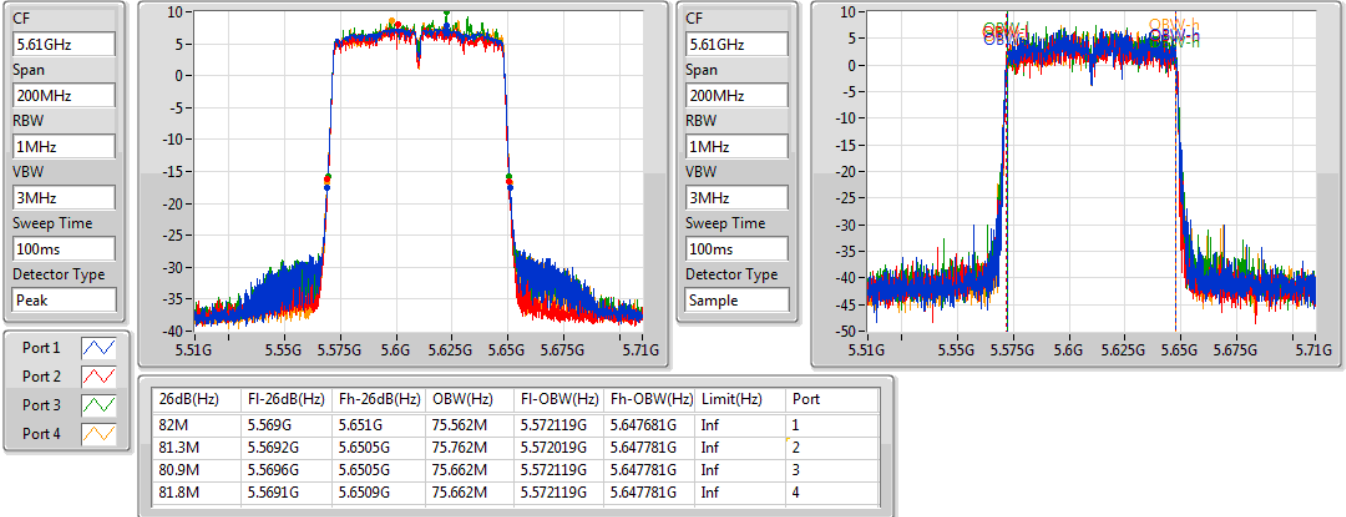

802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5530MHz

11/04/2019

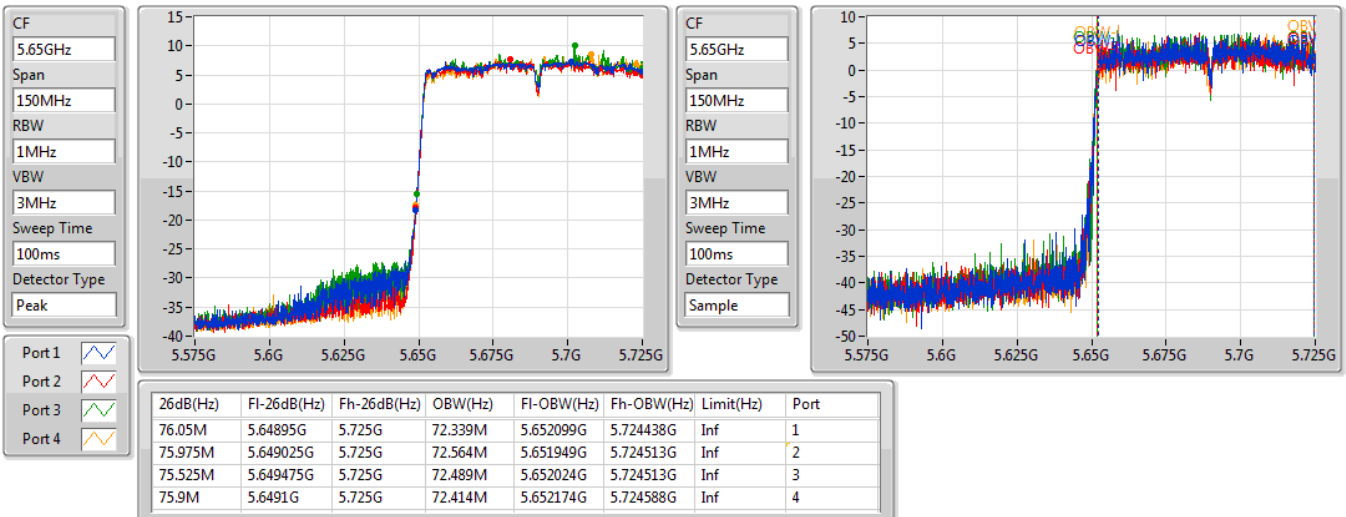


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

11/04/2019

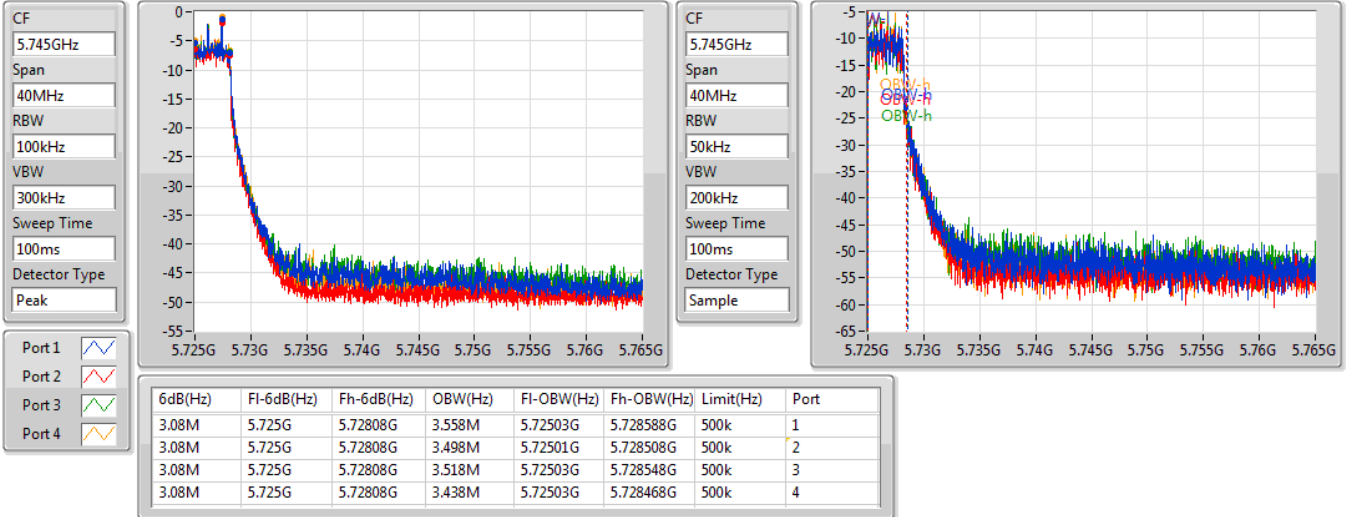

802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

11/04/2019

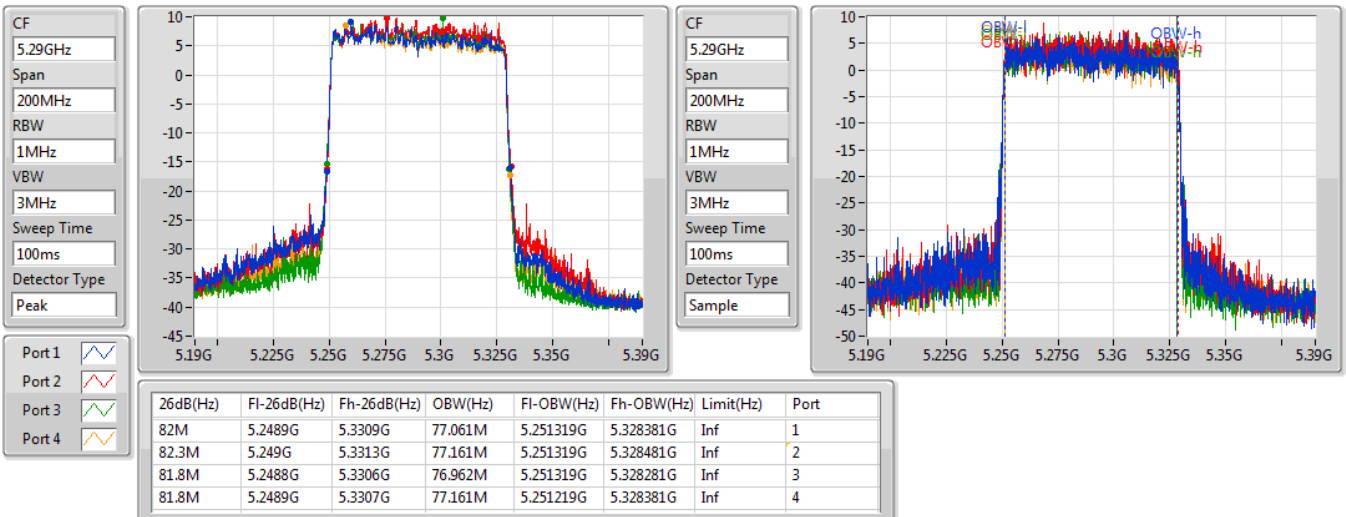


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

11/04/2019

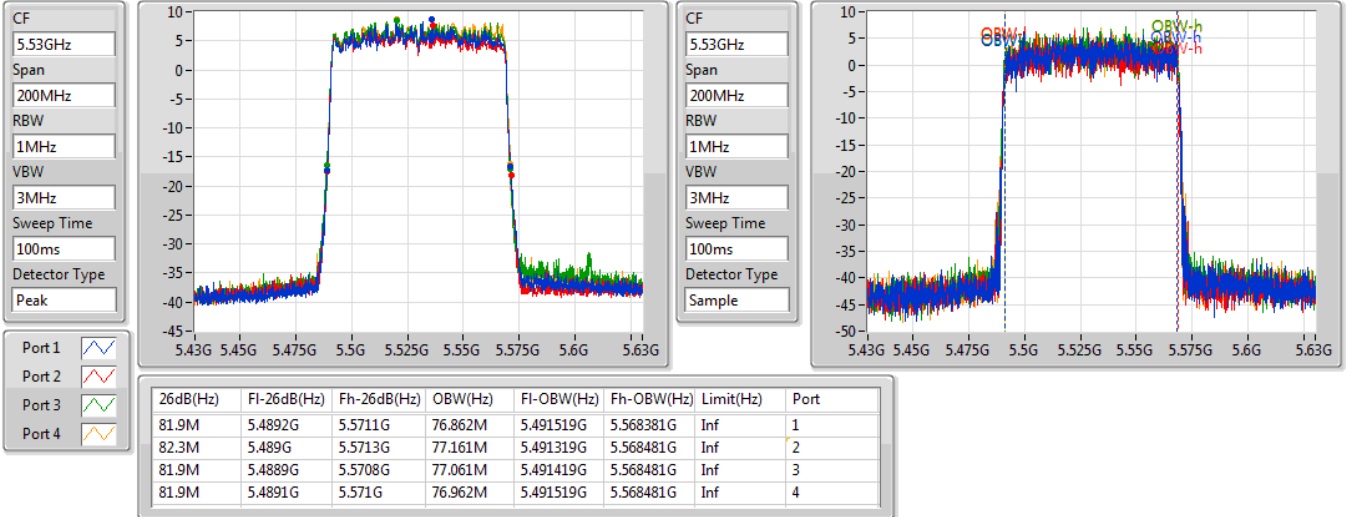

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

11/04/2019

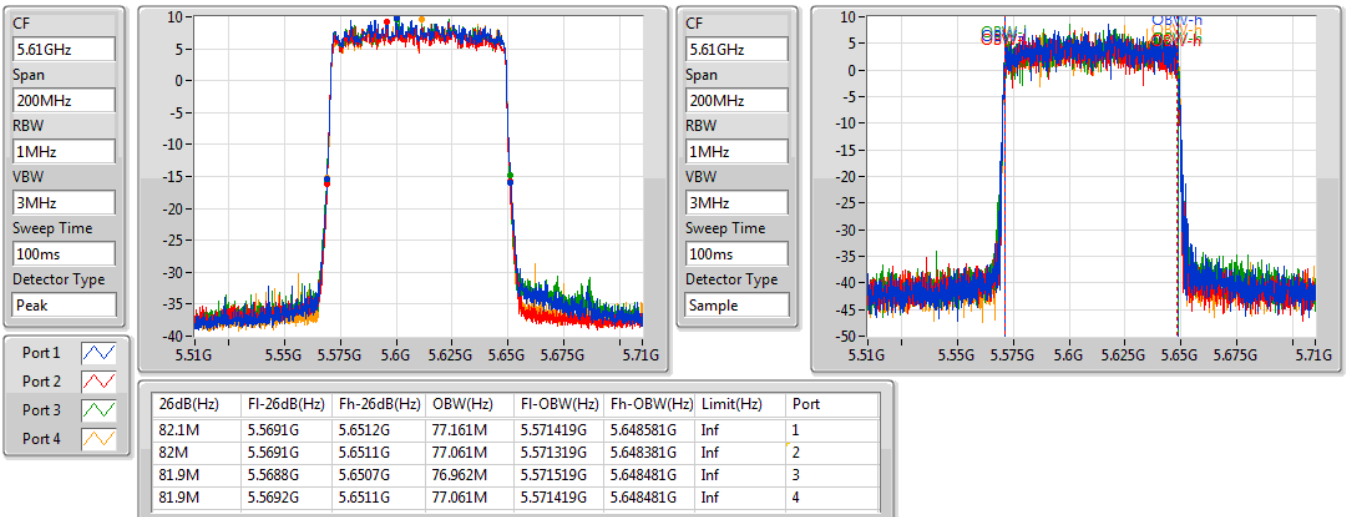


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5530MHz

11/04/2019

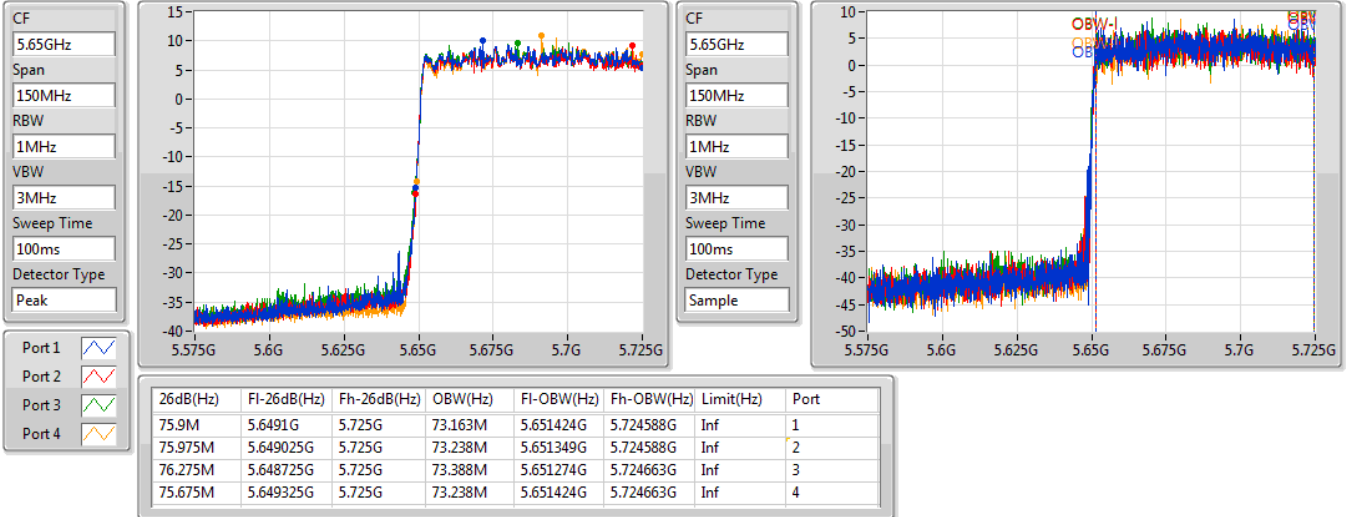

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

11/04/2019

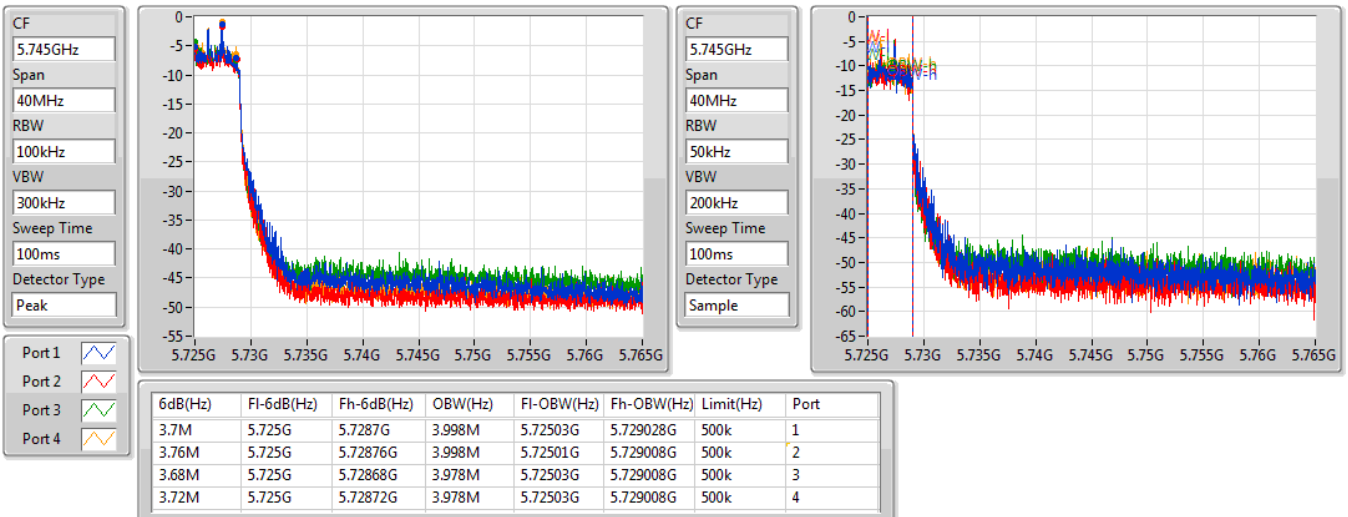


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

11/04/2019

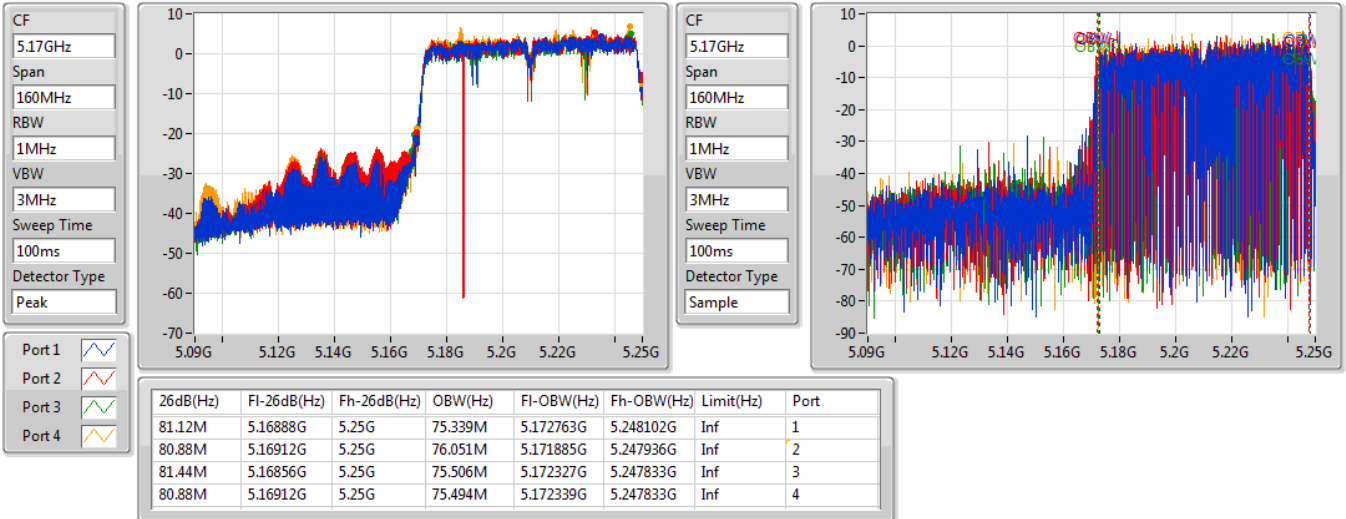

802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

11/04/2019

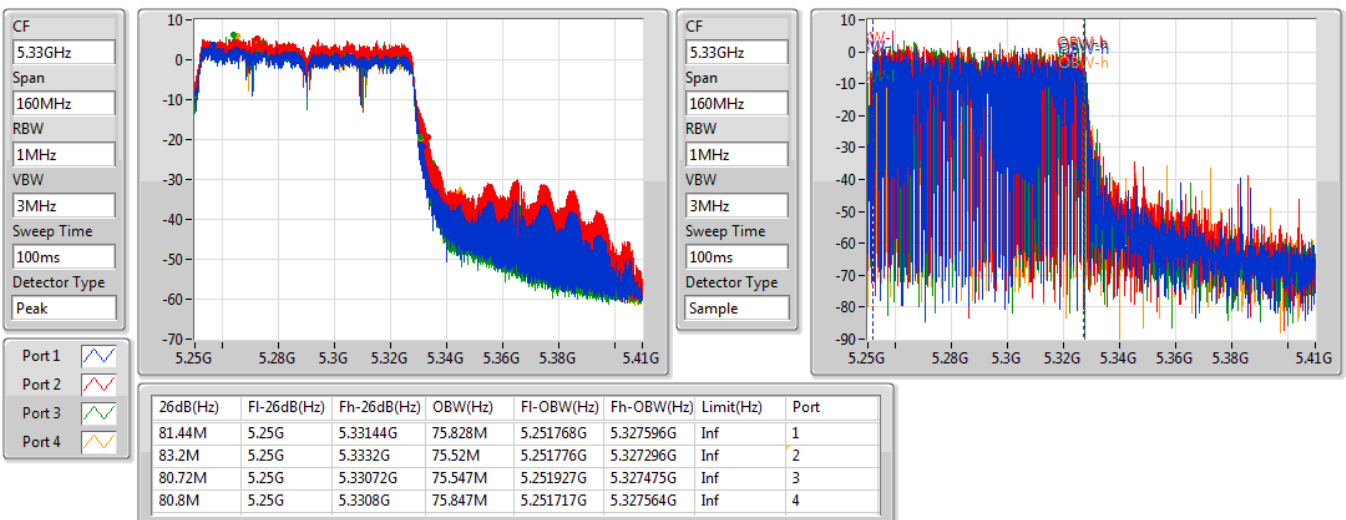


802.11ac VHT160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

15/07/2019

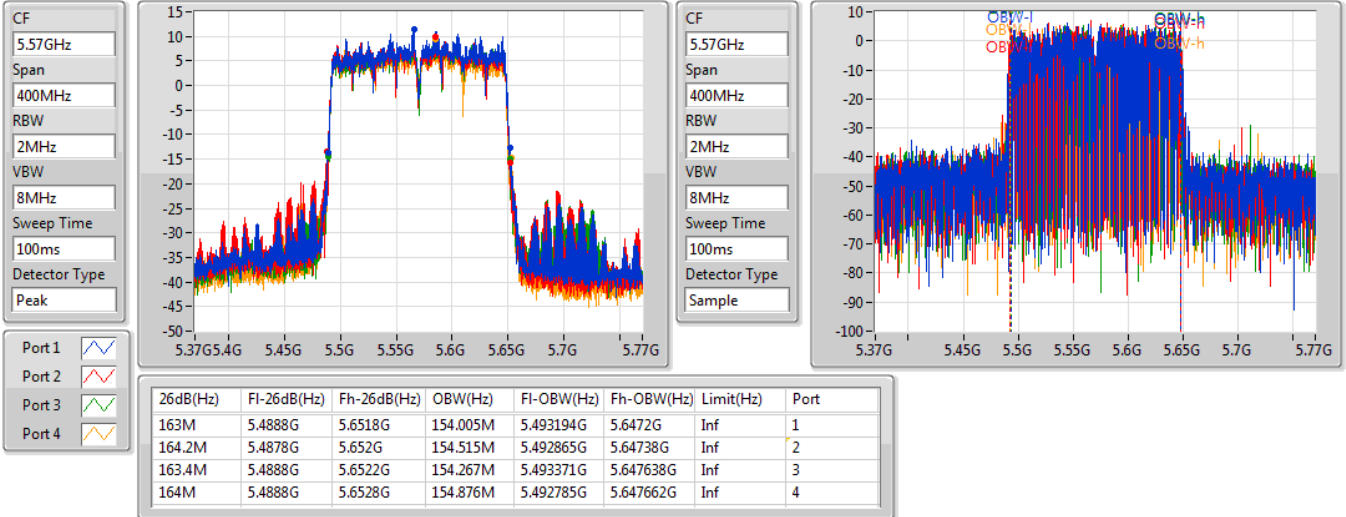

802.11ac VHT160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

15/07/2019

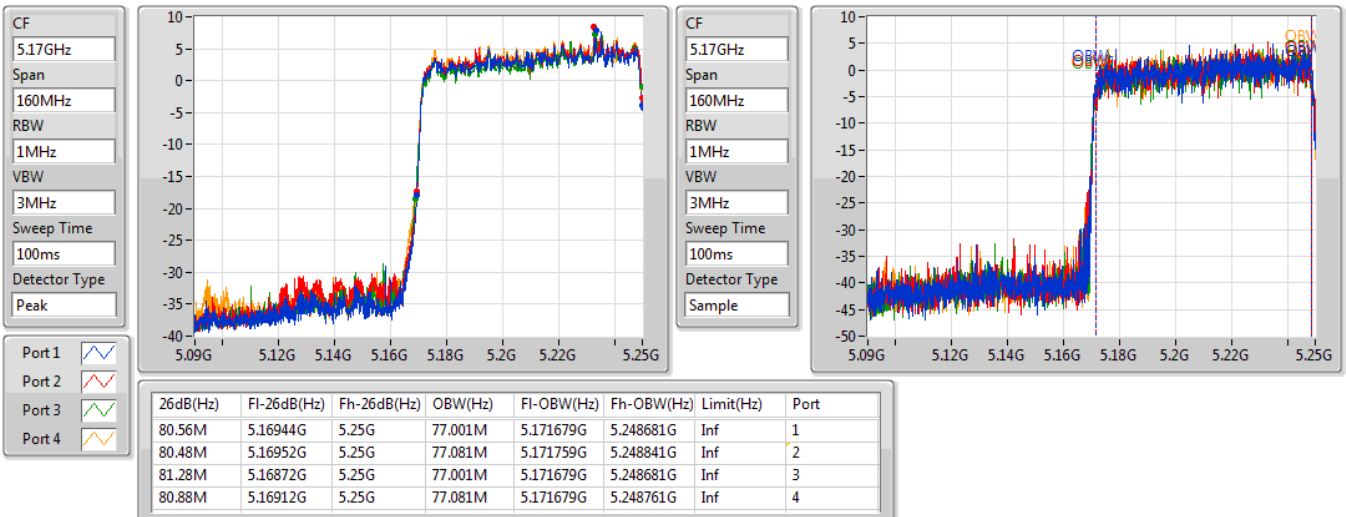


802.11ac VHT160-BF_Nss1,(MCS0)_4TX
EBW
5570MHz

15/07/2019

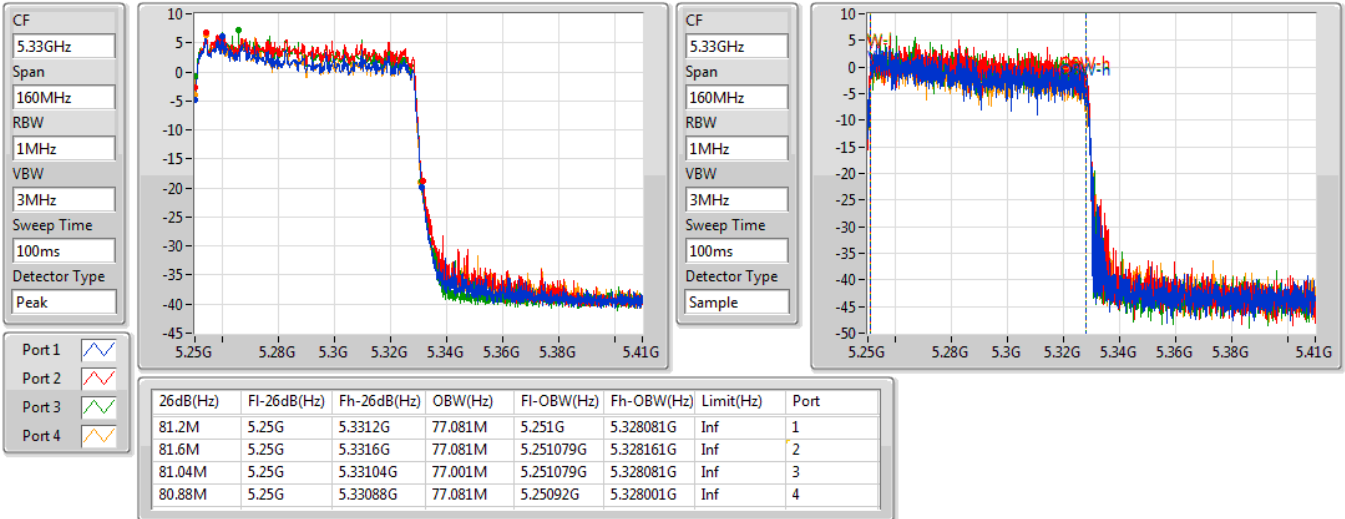

802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

11/04/2019

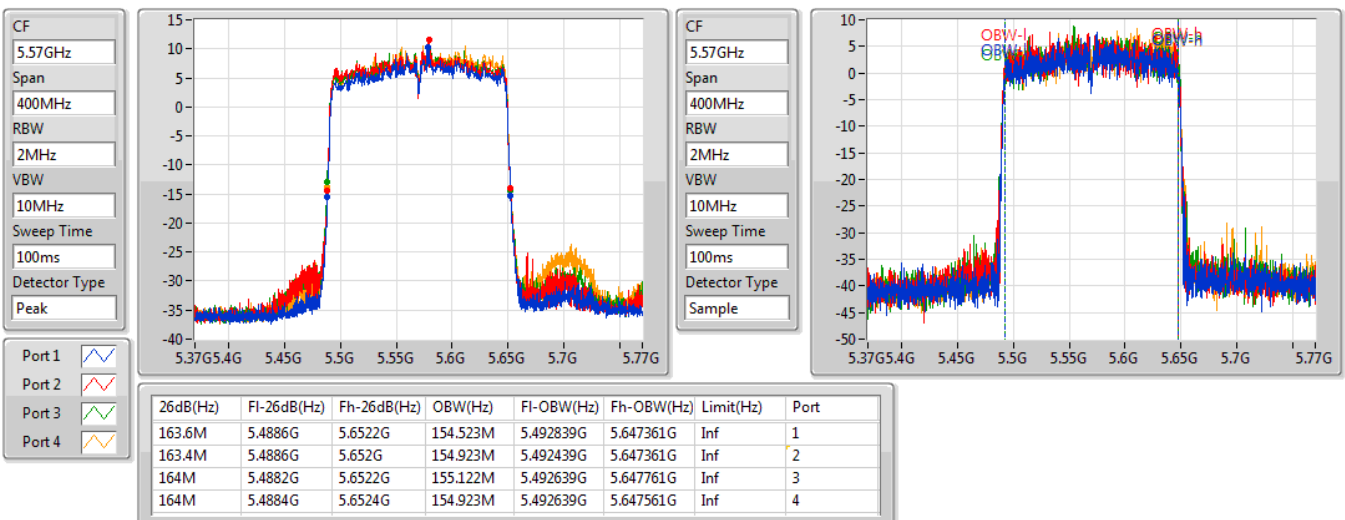


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

11/04/2019


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5570MHz

11/04/2019



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ac VHT160_Nss1,(MCS0)_4TX	18.09	0.06442
802.11ax HEW160_Nss1,(MCS0)_4TX	18.88	0.07727
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	19.15	0.08222
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	19.67	0.09268
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.52	0.22491
802.11ac VHT20_Nss1,(MCS0)_4TX	23.43	0.22029
802.11ax HEW20_Nss1,(MCS0)_4TX	23.91	0.24604
802.11ac VHT40_Nss1,(MCS0)_4TX	23.57	0.22751
802.11ax HEW40_Nss1,(MCS0)_4TX	23.91	0.24604
802.11ac VHT80_Nss1,(MCS0)_4TX	23.01	0.19999
802.11ax HEW80_Nss1,(MCS0)_4TX	23.45	0.22131
802.11ac VHT160_Nss1,(MCS0)_4TX	17.57	0.05715
802.11ax HEW160_Nss1,(MCS0)_4TX	18.11	0.06471
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	22.39	0.17338
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.66	0.18450
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	22.30	0.16982
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.61	0.18239
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	22.21	0.16634
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.67	0.18493
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	18.71	0.07430
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	18.97	0.07889
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	23.70	0.23442
802.11ac VHT20_Nss1,(MCS0)_4TX	23.53	0.22542
802.11ax HEW20_Nss1,(MCS0)_4TX	23.79	0.23933
802.11ac VHT40_Nss1,(MCS0)_4TX	23.71	0.23496
802.11ax HEW40_Nss1,(MCS0)_4TX	23.95	0.24831
802.11ac VHT80_Nss1,(MCS0)_4TX	23.63	0.23067
802.11ax HEW80_Nss1,(MCS0)_4TX	23.83	0.24155
802.11ac VHT160_Nss1,(MCS0)_4TX	22.52	0.17865
802.11ax HEW160_Nss1,(MCS0)_4TX	22.74	0.18793
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	22.73	0.18750
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	22.80	0.19055
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	22.62	0.18281
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	22.80	0.19055
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	22.75	0.18836
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.93	0.19634
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	22.39	0.17338
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	22.48	0.17701
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	15.80	0.03802
802.11ac VHT20_Nss1,(MCS0)_4TX	16.63	0.04603

Mode	Total Power (dBm)	Total Power (W)
802.11ax HEW20_Nss1,(MCS0)_4TX	17.19	0.05236
802.11ac VHT40_Nss1,(MCS0)_4TX	13.28	0.02128
802.11ax HEW40_Nss1,(MCS0)_4TX	14.11	0.02576
802.11ac VHT80_Nss1,(MCS0)_4TX	9.32	0.00855
802.11ax HEW80_Nss1,(MCS0)_4TX	10.32	0.01076
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	15.86	0.03855
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	16.48	0.04446
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	11.96	0.01570
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	12.80	0.01905
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	8.67	0.00736
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	9.41	0.00873

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	2.48	17.02	17.77	17.46	17.66	23.51	23.98
5300MHz	Pass	2.48	17.02	17.97	17.51	17.43	23.52	23.98
5320MHz	Pass	2.48	16.74	17.73	17.37	17.34	23.33	23.98
5500MHz	Pass	1.60	17.08	17.41	17.56	18.46	23.68	23.98
5580MHz	Pass	1.60	17.12	17.30	17.22	18.82	23.70	23.98
5700MHz	Pass	1.60	16.75	16.70	17.22	18.01	23.22	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	1.60	15.38	15.48	15.70	16.66	21.86	22.94
5720MHz Straddle 5.725-5.85GHz	Pass	1.60	9.30	9.23	9.71	10.72	15.80	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	2.48	16.74	17.54	17.46	17.81	23.43	23.98
5300MHz	Pass	2.48	16.80	17.80	17.52	17.25	23.38	23.98
5320MHz	Pass	2.48	16.69	17.78	17.29	17.35	23.32	23.98
5500MHz	Pass	1.60	16.77	17.34	17.41	18.35	23.53	23.98
5580MHz	Pass	1.60	16.93	17.14	17.02	18.60	23.50	23.98
5700MHz	Pass	1.60	13.21	12.85	13.13	14.52	19.50	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	1.60	15.51	15.91	16.22	17.14	22.26	22.98
5720MHz Straddle 5.725-5.85GHz	Pass	1.60	9.95	10.13	10.63	11.55	16.63	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	2.48	17.28	18.03	18.00	17.96	23.85	23.98
5300MHz	Pass	2.48	17.45	18.35	17.88	17.82	23.91	23.98
5320MHz	Pass	2.48	17.52	17.82	17.74	17.37	23.64	23.98
5500MHz	Pass	1.60	17.12	17.45	17.72	18.64	23.79	23.98
5580MHz	Pass	1.60	17.17	17.32	17.62	18.67	23.76	23.98
5700MHz	Pass	1.60	13.23	13.09	13.28	14.47	19.58	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	1.60	15.81	16.16	16.51	17.42	22.54	22.96
5720MHz Straddle 5.725-5.85GHz	Pass	1.60	10.49	10.69	11.18	12.13	17.19	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	2.48	17.14	18.00	17.58	17.45	23.57	23.98
5310MHz	Pass	2.48	17.31	17.84	17.68	17.30	23.56	23.98
5510MHz	Pass	1.60	17.06	17.32	17.67	17.71	23.47	23.98
5550MHz	Pass	1.60	17.11	17.45	17.78	18.03	23.63	23.98
5670MHz	Pass	1.60	18.14	17.30	18.27	16.89	23.71	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	1.60	17.83	17.41	18.45	16.93	23.71	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	1.60	7.41	6.86	7.85	6.85	13.28	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	2.48	17.49	18.26	17.90	17.56	23.83	23.98
5310MHz	Pass	2.48	17.78	18.20	17.95	17.61	23.91	23.98
5510MHz	Pass	1.60	17.01	17.43	17.66	17.75	23.49	23.98
5550MHz	Pass	1.60	17.18	17.58	17.97	18.30	23.80	23.98
5670MHz	Pass	1.60	18.06	17.39	18.59	17.03	23.83	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	1.60	17.93	17.77	18.69	17.20	23.95	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	1.60	8.16	7.69	8.77	7.62	14.11	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-



Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
5290MHz	Pass	2.48	16.52	17.79	17.02	16.50	23.01	23.98
5530MHz	Pass	1.60	17.01	16.85	17.97	18.39	23.62	23.98
5610MHz	Pass	1.60	17.78	17.32	17.89	17.42	23.63	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	1.60	17.47	17.27	17.80	17.14	23.45	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	1.60	3.39	2.85	3.33	3.59	9.32	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	2.48	17.05	18.28	17.36	16.88	23.45	23.98
5530MHz	Pass	1.60	17.28	17.06	18.22	18.45	23.81	23.98
5610MHz	Pass	1.60	17.96	17.63	18.08	17.56	23.83	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	1.60	17.77	17.71	18.20	17.47	23.82	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	1.60	4.33	3.88	4.33	4.63	10.32	30.00
802.11ac VHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	2.48	11.93	12.41	11.62	12.28	18.09	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.48	10.60	12.67	11.85	10.75	17.57	23.98
5570MHz	Pass	1.60	15.88	16.54	16.45	17.05	22.52	23.98
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	2.48	12.67	13.25	12.42	13.06	18.88	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.48	11.18	13.09	12.50	11.28	18.11	23.98
5570MHz	Pass	1.60	16.07	16.81	16.75	17.19	22.74	23.98
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.30	15.83	16.39	16.28	16.71	22.33	22.68
5300MHz	Pass	7.30	15.85	16.85	16.38	16.34	22.39	22.68
5320MHz	Pass	7.30	15.79	16.51	16.24	16.22	22.22	22.68
5500MHz	Pass	7.03	16.29	16.44	16.43	17.55	22.73	22.95
5580MHz	Pass	7.03	16.26	16.15	16.19	17.83	22.69	22.95
5700MHz	Pass	7.03	15.73	15.64	16.10	17.07	22.19	22.95
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	15.20	15.13	15.59	16.54	21.67	21.94
5720MHz Straddle 5.725-5.85GHz	Pass	7.03	9.32	9.42	9.60	10.84	15.86	28.97
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.30	16.11	16.80	16.80	16.79	22.66	22.68
5300MHz	Pass	7.30	16.16	16.98	16.72	16.60	22.65	22.68
5320MHz	Pass	7.30	16.35	16.69	16.47	16.24	22.46	22.68
5500MHz	Pass	7.03	16.26	16.52	16.57	17.63	22.80	22.95
5580MHz	Pass	7.03	15.93	16.65	16.48	17.74	22.77	22.95
5700MHz	Pass	7.03	15.69	15.87	16.22	17.26	22.32	22.95
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	15.36	15.47	15.72	16.67	21.86	21.93
5720MHz Straddle 5.725-5.85GHz	Pass	7.03	9.91	10.02	10.31	11.43	16.48	28.97
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.30	15.61	16.44	16.25	16.33	22.19	22.68
5310MHz	Pass	7.30	16.03	16.56	16.46	16.05	22.30	22.68
5510MHz	Pass	7.03	15.71	16.21	16.33	16.89	22.33	22.95
5550MHz	Pass	7.03	16.09	16.21	16.63	17.11	22.55	22.95
5670MHz	Pass	7.03	16.92	16.15	17.18	16.03	22.62	22.95
5710MHz Straddle 5.47-5.725GHz	Pass	7.03	16.57	15.92	17.03	15.84	22.39	22.95
5710MHz Straddle 5.725-5.85GHz	Pass	7.03	6.17	5.34	6.49	5.68	11.96	28.97



Average Power

Appendix B

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.30	16.13	16.76	16.61	16.37	22.49	22.68
5310MHz	Pass	7.30	16.32	16.90	16.81	16.28	22.61	22.68
5510MHz	Pass	7.03	15.77	16.35	16.48	16.82	22.39	22.95
5550MHz	Pass	7.03	16.28	16.51	16.82	17.29	22.76	22.95
5670MHz	Pass	7.03	17.11	16.36	17.37	16.18	22.80	22.95
5710MHz Straddle 5.47-5.725GHz	Pass	7.03	16.92	16.41	17.38	16.15	22.76	22.95
5710MHz Straddle 5.725-5.85GHz	Pass	7.03	7.04	6.32	7.26	6.44	12.80	28.97
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.30	15.74	17.05	16.10	15.74	22.21	22.68
5530MHz	Pass	7.03	15.23	14.86	15.94	16.05	21.57	22.95
5610MHz	Pass	7.03	16.91	16.45	16.90	16.62	22.74	22.95
5690MHz Straddle 5.47-5.725GHz	Pass	7.03	16.89	16.42	16.95	16.65	22.75	22.95
5690MHz Straddle 5.725-5.85GHz	Pass	7.03	2.78	2.06	2.58	3.10	8.67	28.97
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.30	16.39	17.47	16.59	16.03	22.67	22.68
5530MHz	Pass	7.03	15.56	15.03	16.30	16.43	21.89	22.95
5610MHz	Pass	7.03	17.15	16.72	16.96	16.71	22.91	22.95
5690MHz Straddle 5.47-5.725GHz	Pass	7.03	17.08	16.60	17.14	16.79	22.93	22.95
5690MHz Straddle 5.725-5.85GHz	Pass	7.03	3.52	2.82	3.33	3.81	9.41	28.97
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.30	12.94	13.32	12.74	13.48	19.15	28.70
5250MHz Straddle 5.25-5.35GHz	Pass	7.30	11.73	13.75	12.98	12.00	18.71	22.68
5570MHz	Pass	7.03	16.02	16.80	16.31	16.32	22.39	22.95
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.30	13.55	13.81	13.29	13.93	19.67	28.70
5250MHz Straddle 5.25-5.35GHz	Pass	7.30	12.16	13.71	13.47	12.21	18.97	22.68
5570MHz	Pass	7.03	15.81	16.57	16.45	16.94	22.48	22.95

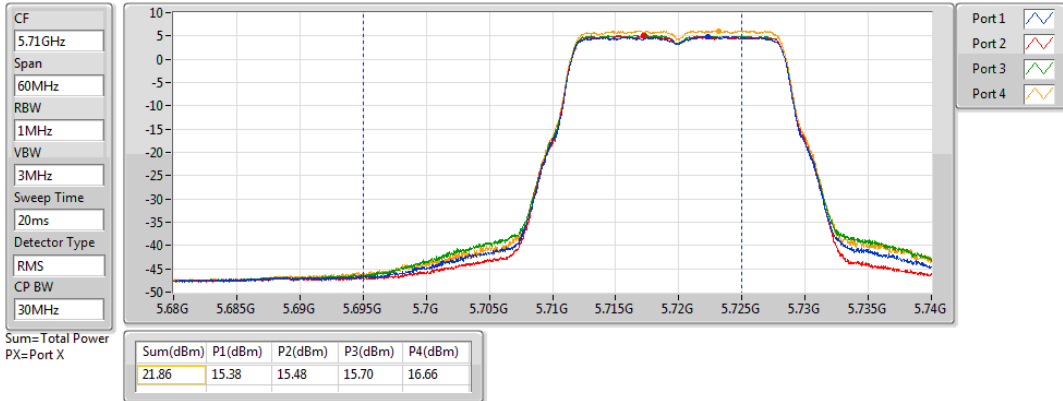
DG = Directional Gain; **Port X** = Port X output power

802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

11/04/2019

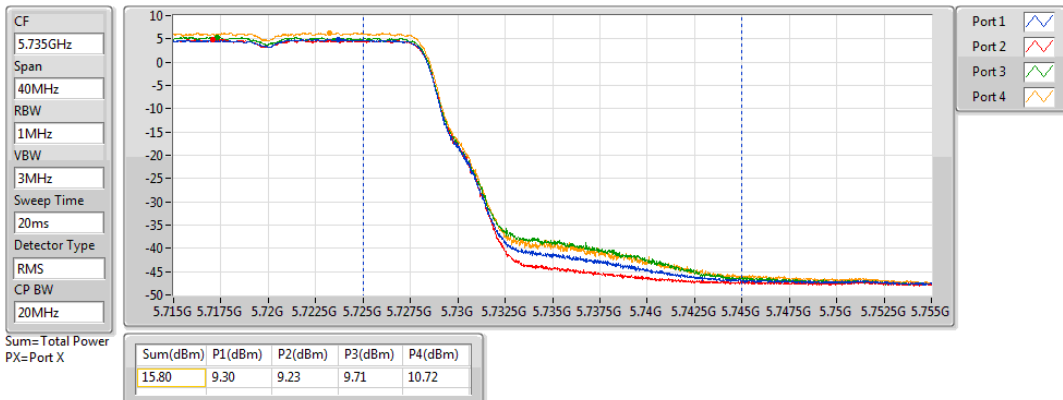


802.11a_Nss1,(6Mbps)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

11/04/2019

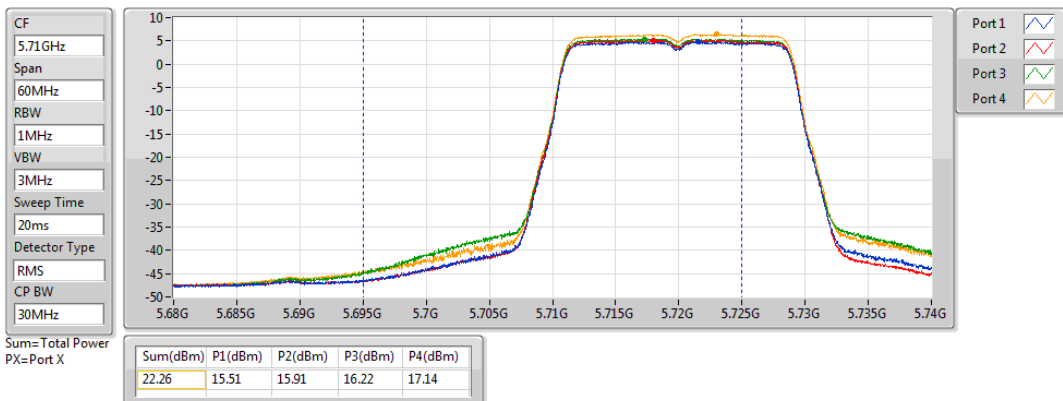


802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

11/04/2019

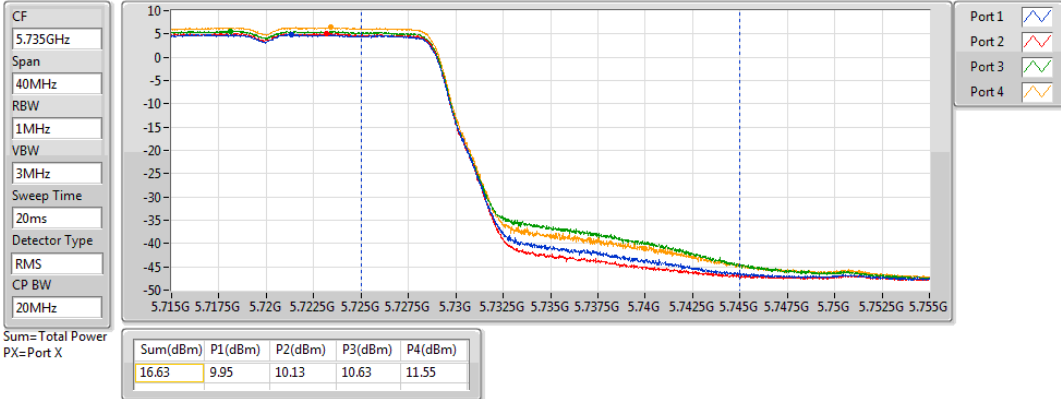


802.11ac VHT20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

11/04/2019

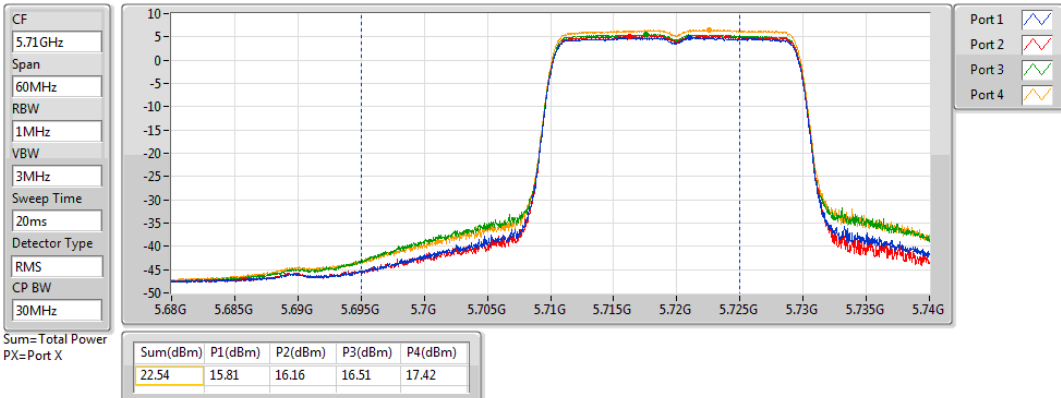


802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

11/04/2019

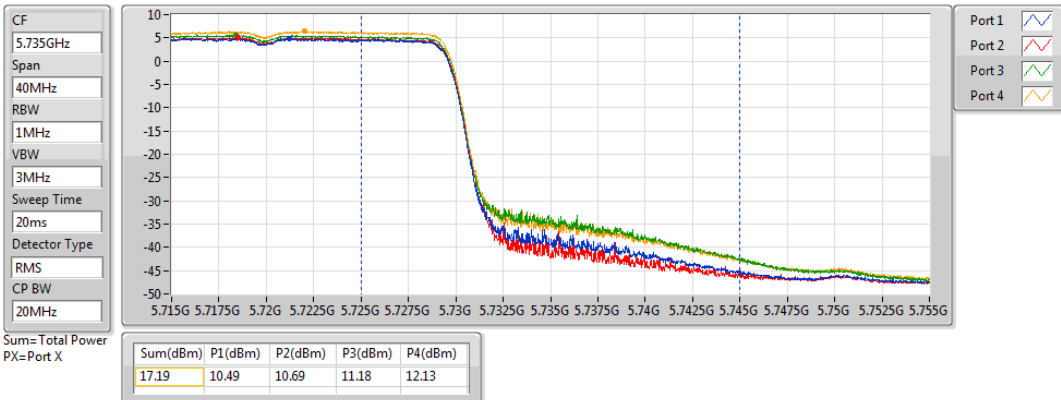


802.11ax HEW20_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

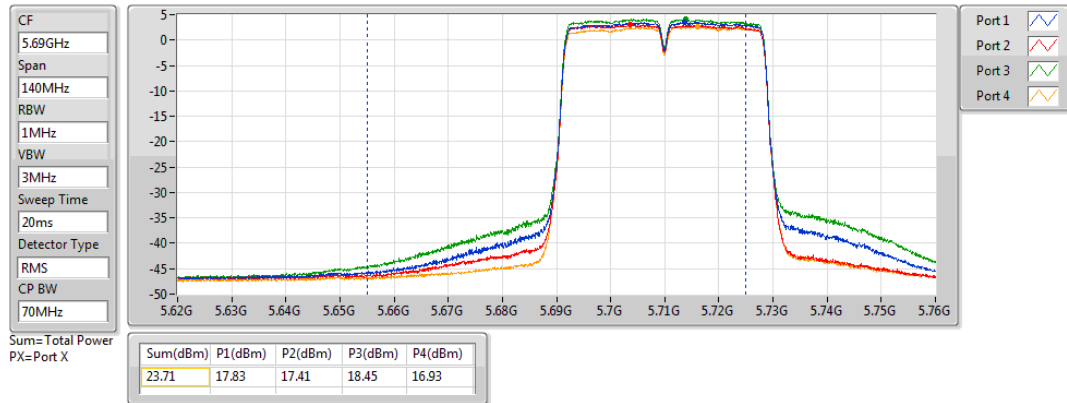
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802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

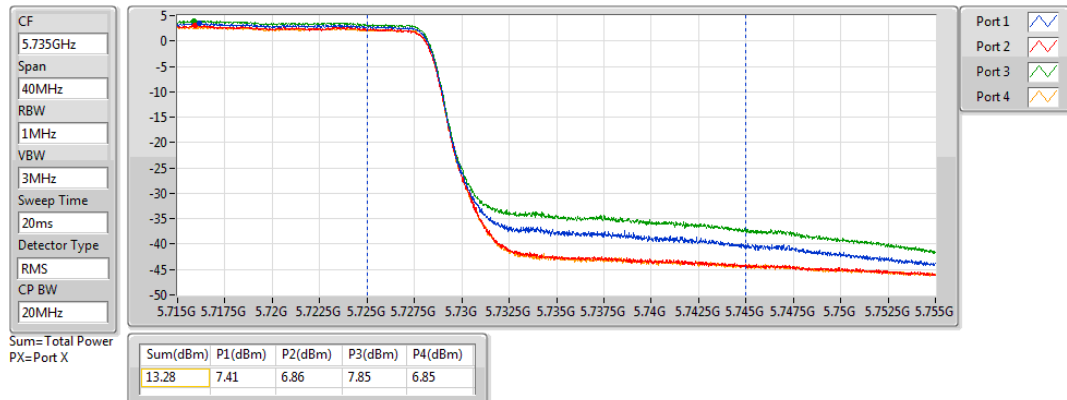
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40_Nss1,(MCS0)_4TX

AV Power

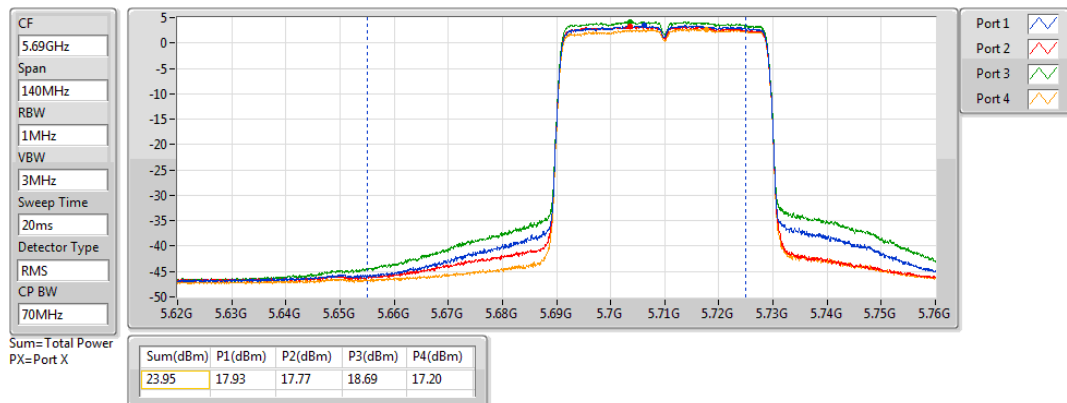
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

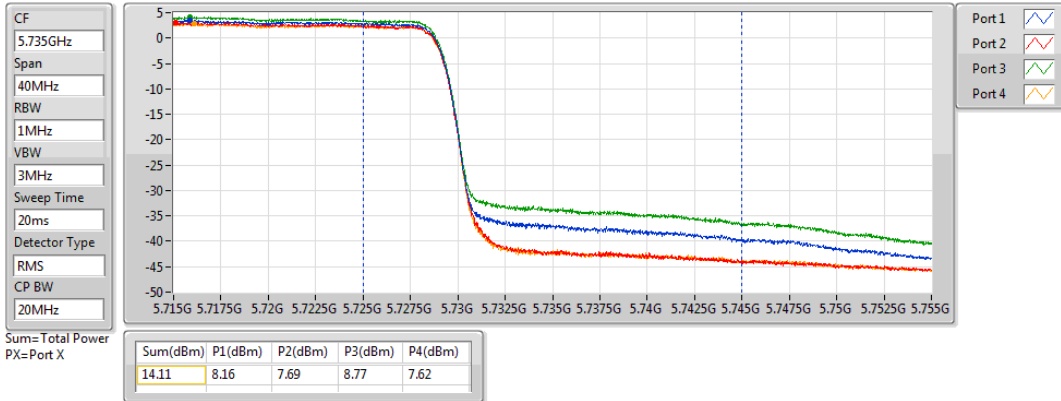


802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

10/04/2019

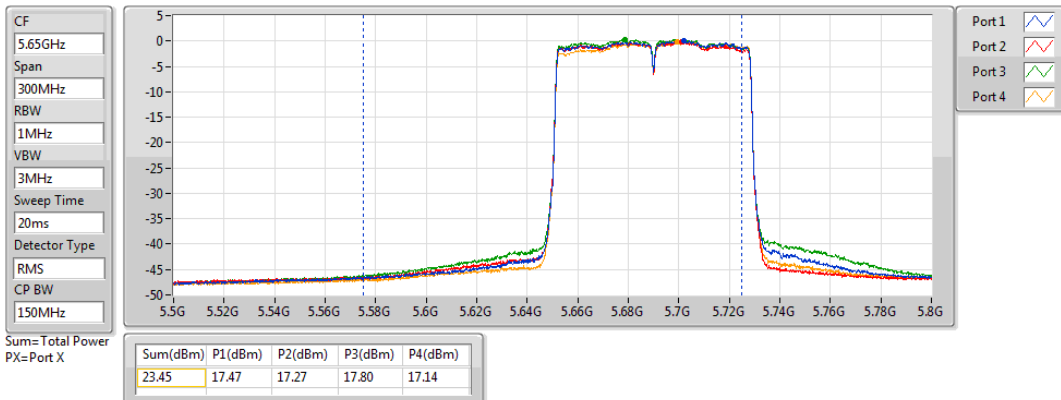


802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

11/04/2019

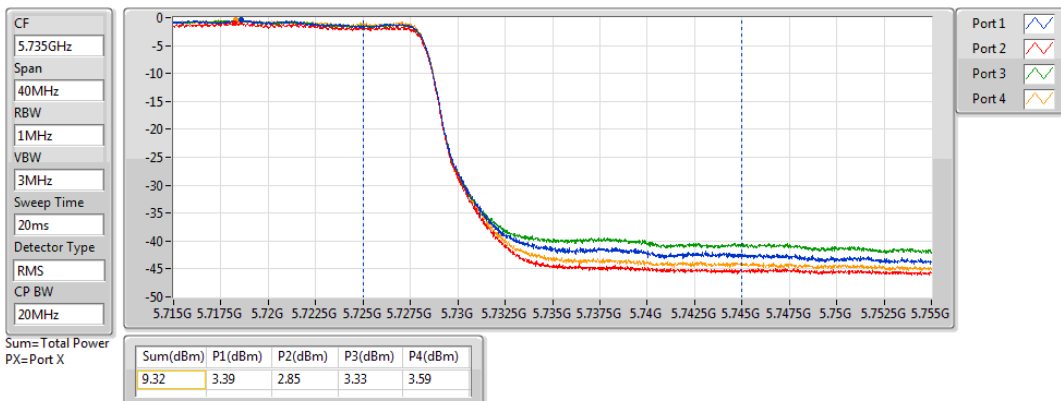


802.11ac VHT80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

11/04/2019

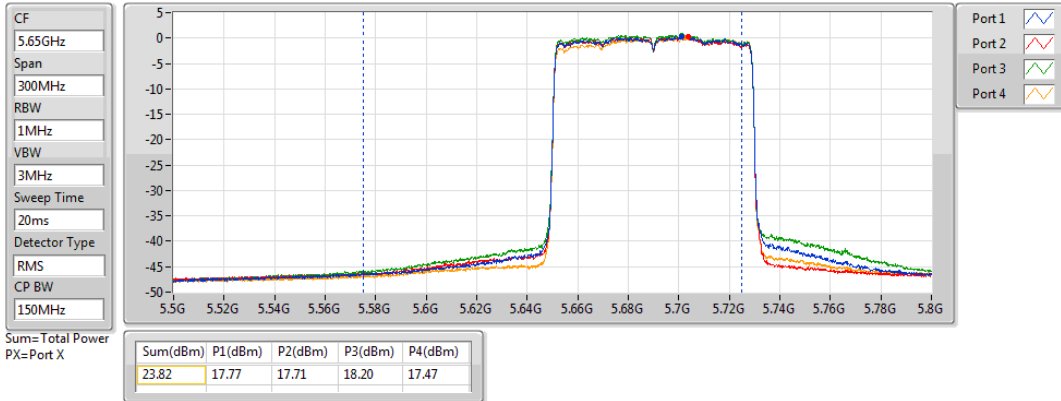


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

10/04/2019

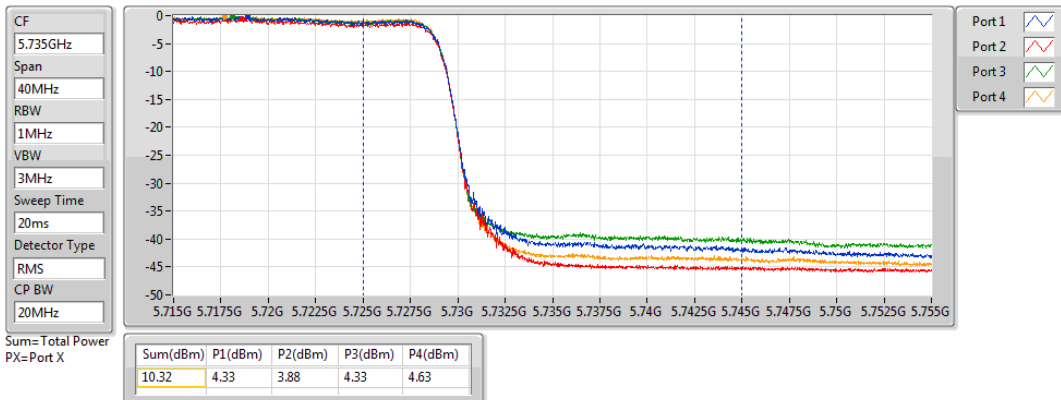


802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

10/04/2019

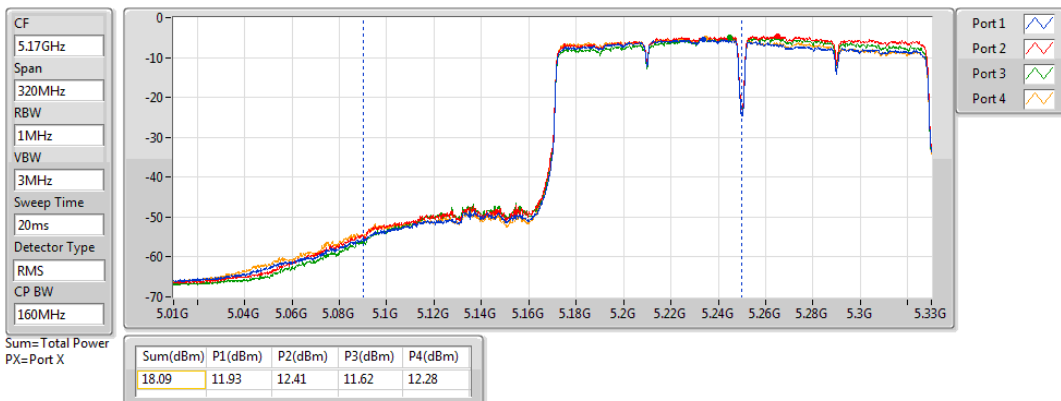


802.11ac VHT160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

15/07/2019

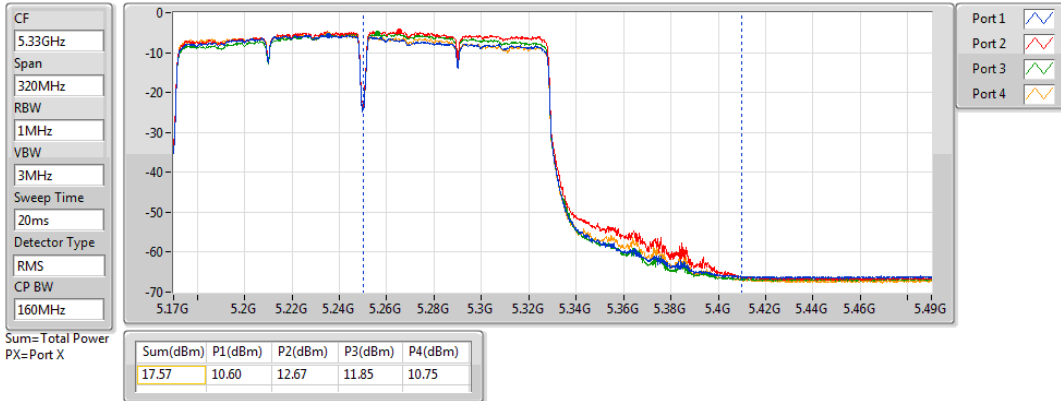


802.11ac VHT160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

15/07/2019

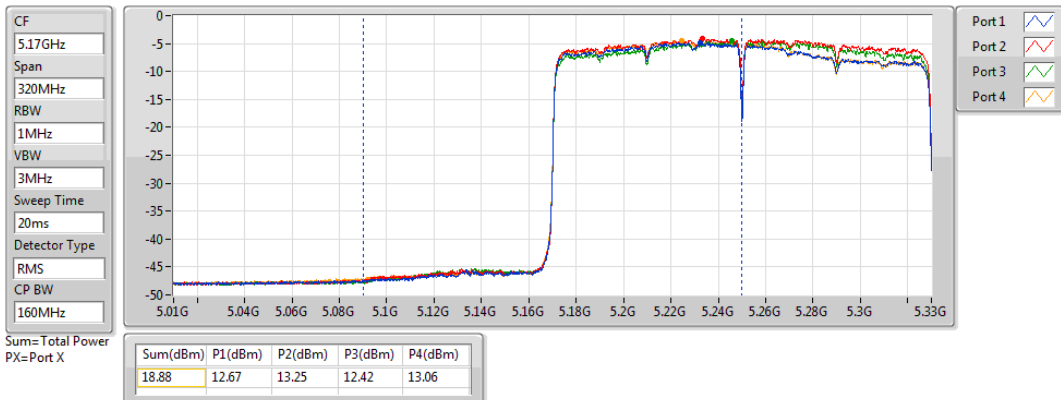


802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

11/04/2019

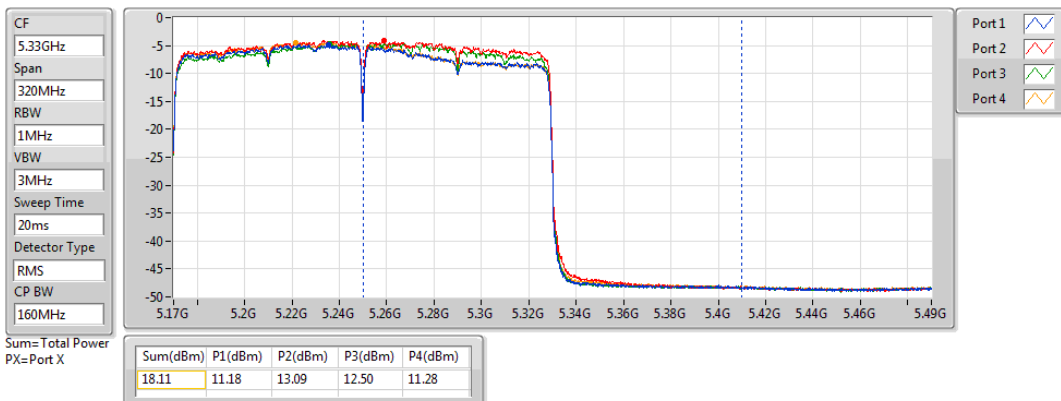


802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

11/04/2019

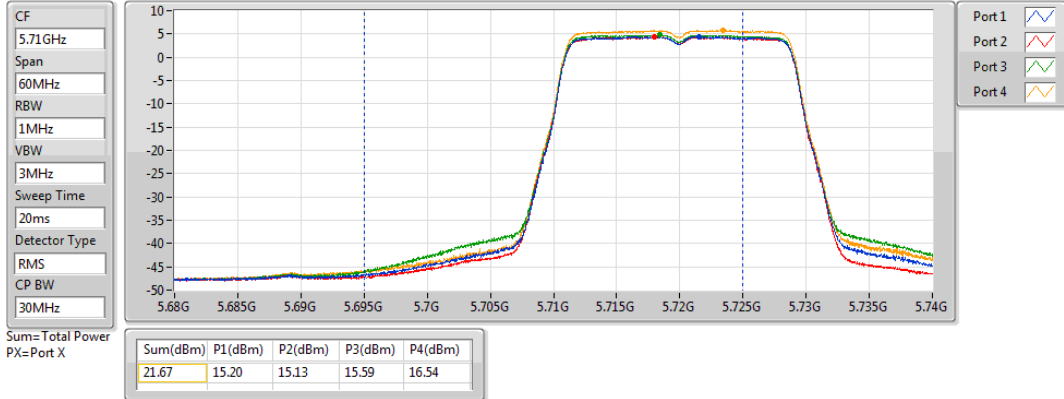


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

11/04/2019

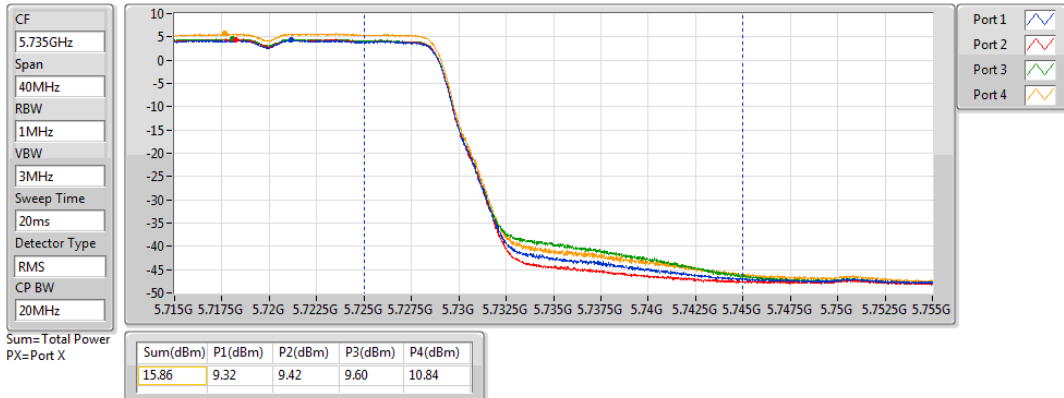


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

11/04/2019

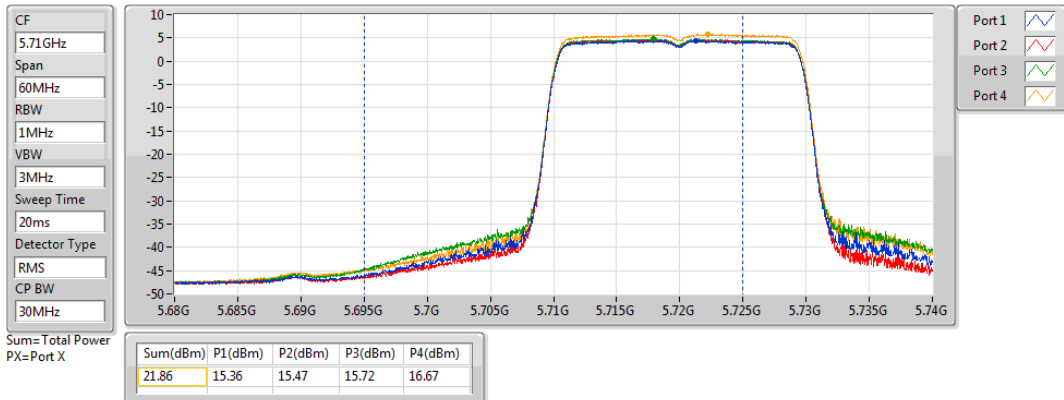


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

11/04/2019

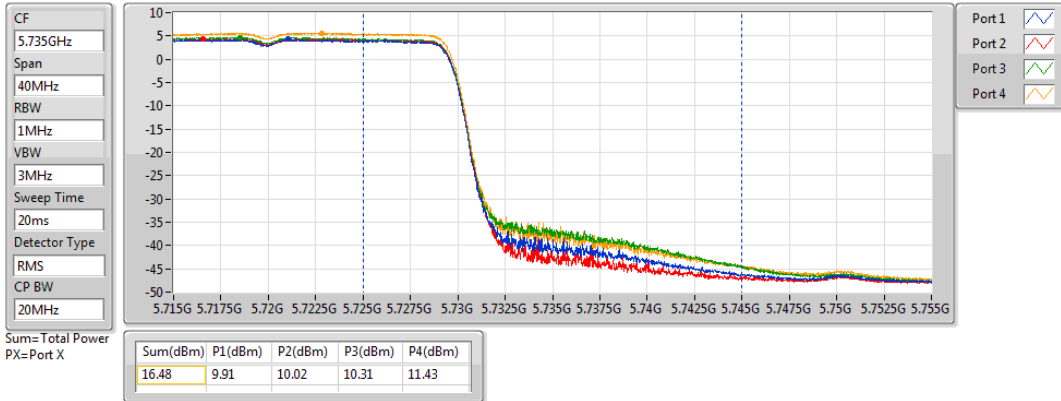


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

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11/04/2019

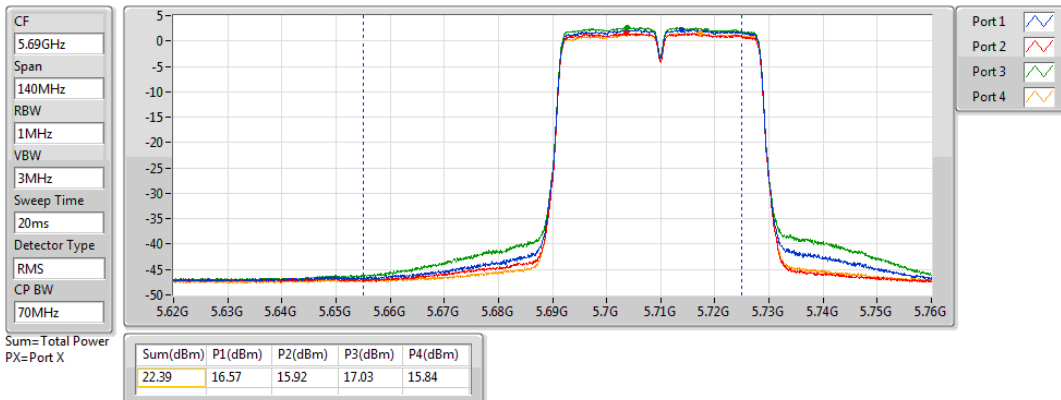


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

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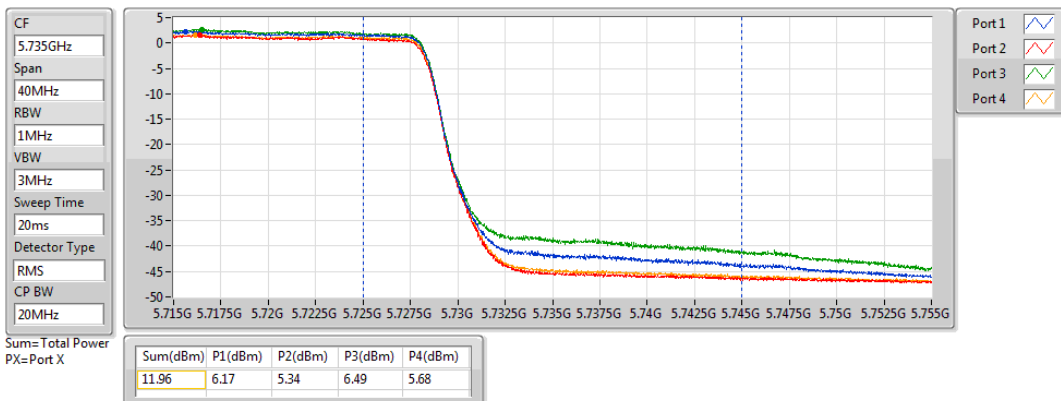


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

11/04/2019

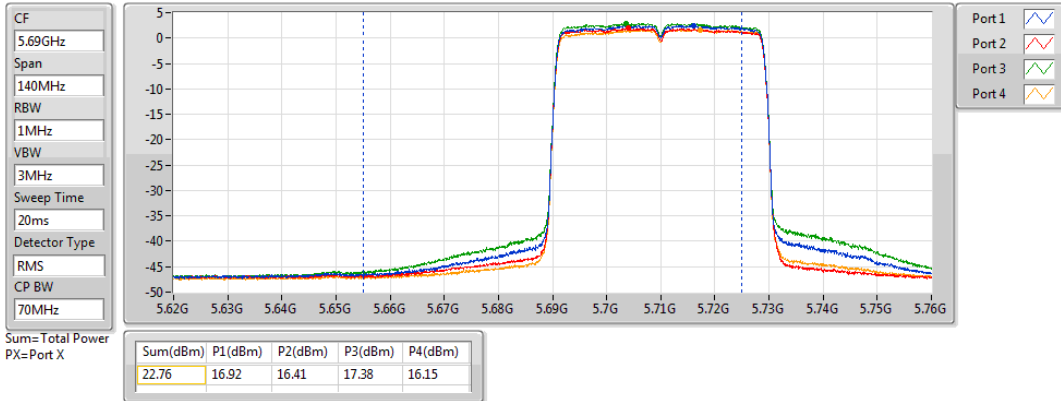


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

10/04/2019

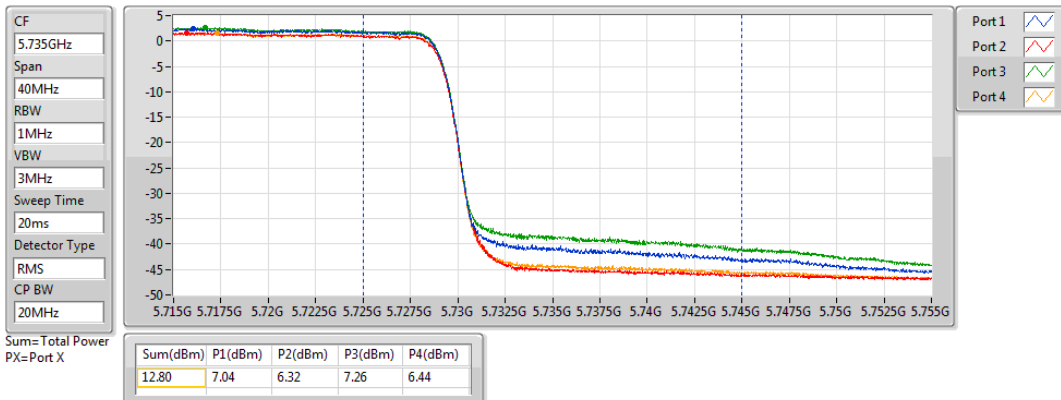


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

10/04/2019

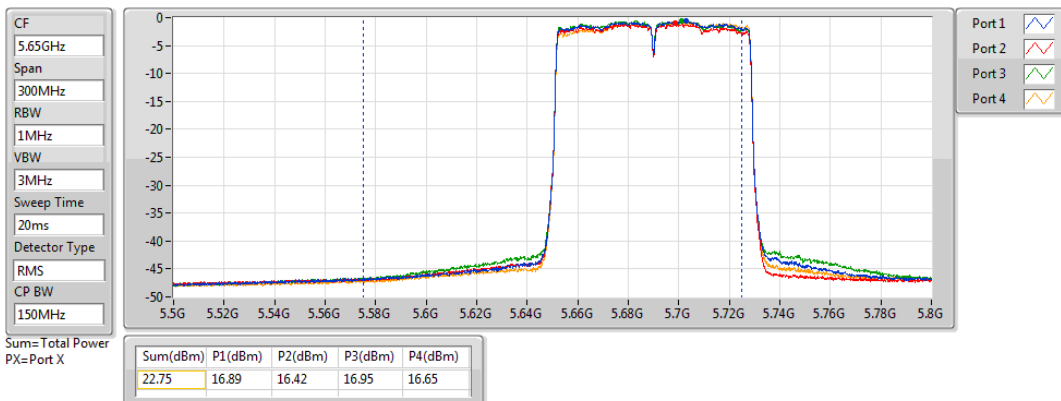


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

11/04/2019

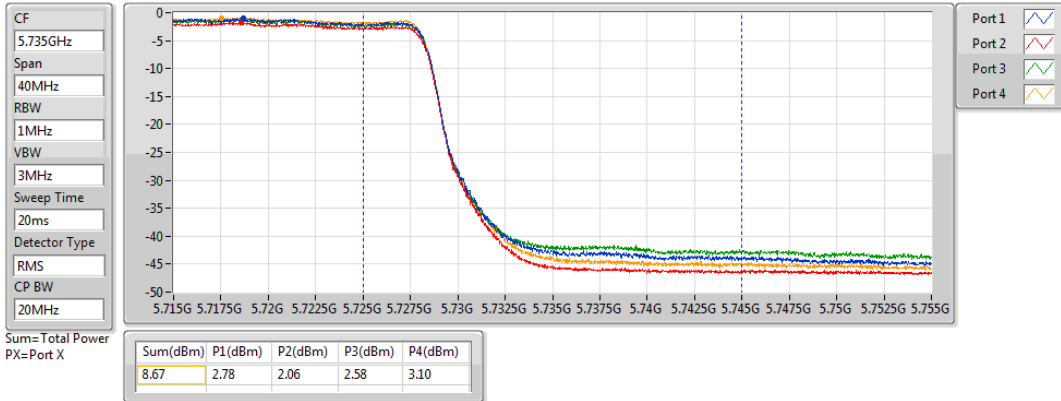


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

11/04/2019

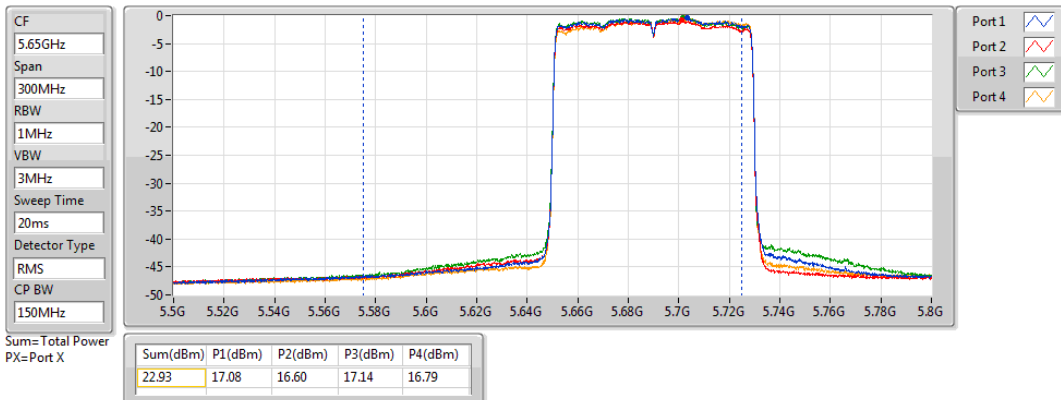


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

11/04/2019

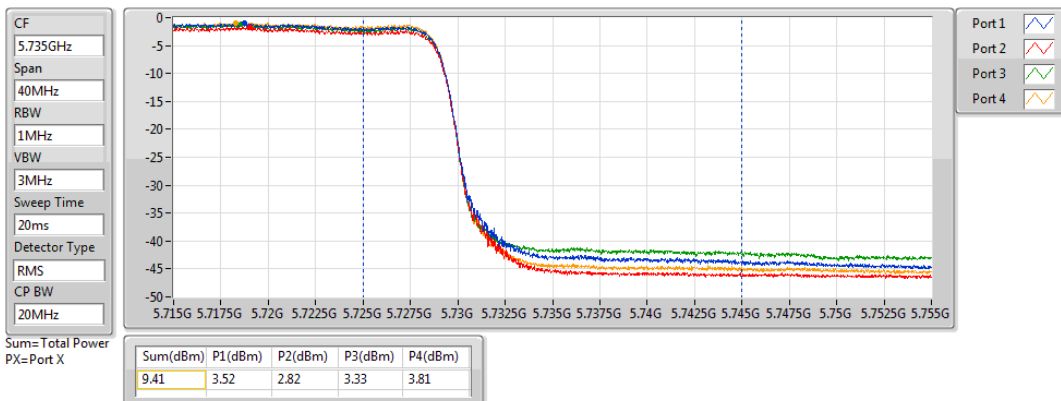


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

11/04/2019

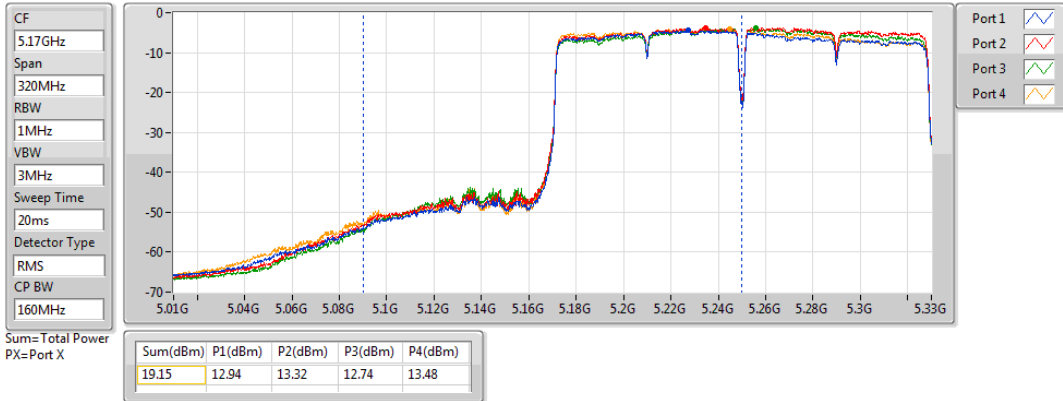


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

15/07/2019

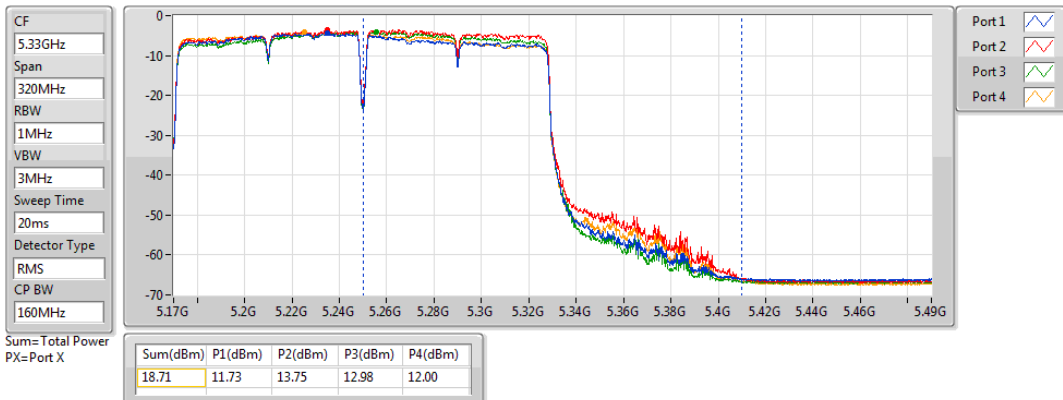


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

15/07/2019

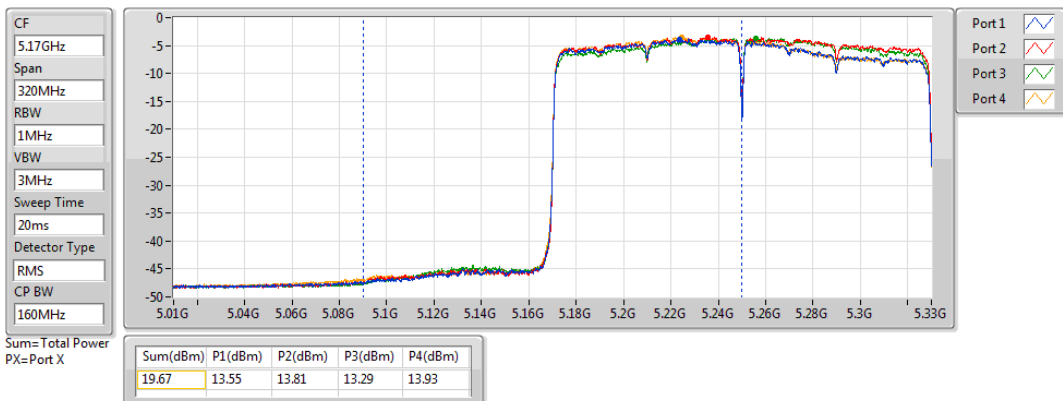


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

11/04/2019

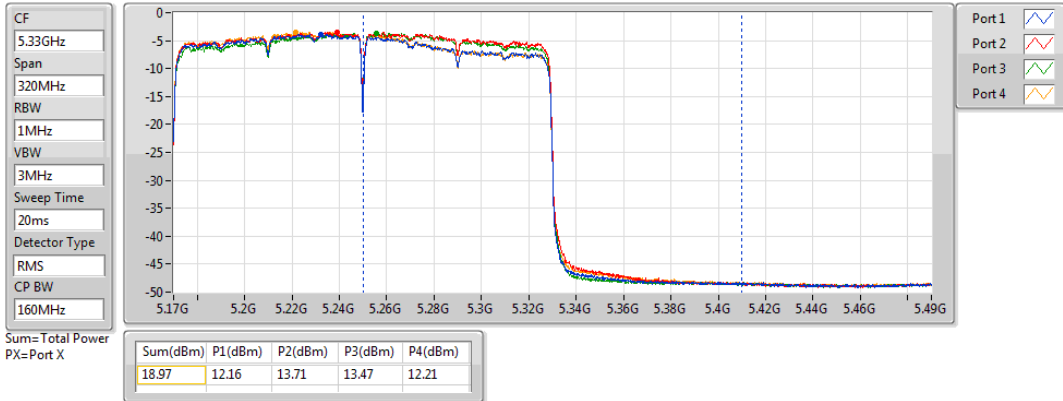


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

11/04/2019



Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ac VHT160_Nss1,(MCS0)_4TX	-0.48
802.11ax HEW160_Nss1,(MCS0)_4TX	-0.11
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	0.67
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.69
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.63
802.11ac VHT20_Nss1,(MCS0)_4TX	9.19
802.11ax HEW20_Nss1,(MCS0)_4TX	9.38
802.11ac VHT40_Nss1,(MCS0)_4TX	6.51
802.11ax HEW40_Nss1,(MCS0)_4TX	7.61
802.11ac VHT80_Nss1,(MCS0)_4TX	3.01
802.11ax HEW80_Nss1,(MCS0)_4TX	4.18
802.11ac VHT160_Nss1,(MCS0)_4TX	-0.94
802.11ax HEW160_Nss1,(MCS0)_4TX	-0.34
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	8.05
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	8.13
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	5.25
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	6.33
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	2.27
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.38
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	0.37
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.48
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_4TX	9.84
802.11ac VHT20_Nss1,(MCS0)_4TX	9.83
802.11ax HEW20_Nss1,(MCS0)_4TX	9.87
802.11ac VHT40_Nss1,(MCS0)_4TX	7.80
802.11ax HEW40_Nss1,(MCS0)_4TX	7.84
802.11ac VHT80_Nss1,(MCS0)_4TX	4.82
802.11ax HEW80_Nss1,(MCS0)_4TX	5.24
802.11ac VHT160_Nss1,(MCS0)_4TX	0.70
802.11ax HEW160_Nss1,(MCS0)_4TX	1.15
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	9.32
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.31
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	6.52
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	6.71
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	3.82
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	3.95
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	0.72
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.79
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	8.13
802.11ac VHT20_Nss1,(MCS0)_4TX	8.25

Mode	PD (dBm/RBW)
802.11ax HEW20_Nss1,(MCS0)_4TX	8.16
802.11ac VHT40_Nss1,(MCS0)_4TX	5.63
802.11ax HEW40_Nss1,(MCS0)_4TX	5.76
802.11ac VHT80_Nss1,(MCS0)_4TX	1.72
802.11ax HEW80_Nss1,(MCS0)_4TX	2.15
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	7.53
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	7.55
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	4.24
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4.50
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	1.02
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	1.29

RBW = 500 kHz 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)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.30	3.23	3.88	3.67	4.02	9.63	9.70
5300MHz	Pass	7.30	3.05	4.04	3.53	3.43	9.46	9.70
5320MHz	Pass	7.30	2.96	3.93	3.48	3.37	9.35	9.70
5500MHz	Pass	7.03	3.38	3.72	3.70	4.83	9.84	9.97
5580MHz	Pass	7.03	3.64	3.58	3.46	5.01	9.84	9.97
5700MHz	Pass	7.03	2.93	2.88	3.20	4.11	9.17	9.97
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	3.41	3.37	3.82	4.59	9.70	9.97
5720MHz Straddle 5.725-5.85GHz	Pass	7.03	1.81	1.56	2.04	3.17	8.13	28.97
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.30	2.68	3.38	3.29	3.59	9.19	9.70
5300MHz	Pass	7.30	2.54	3.47	3.19	3.10	9.03	9.70
5320MHz	Pass	7.30	2.33	3.45	3.00	2.95	8.88	9.70
5500MHz	Pass	7.03	2.77	3.16	3.21	4.32	9.36	9.97
5580MHz	Pass	7.03	2.64	2.99	2.83	4.45	9.30	9.97
5700MHz	Pass	7.03	-1.32	-1.44	-1.18	0.28	5.05	9.97
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	3.37	3.58	3.80	4.81	9.83	9.97
5720MHz Straddle 5.725-5.85GHz	Pass	7.03	1.68	1.79	2.32	3.19	8.25	28.97
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.30	2.90	3.67	3.46	3.74	9.38	9.70
5300MHz	Pass	7.30	2.71	3.67	3.24	3.17	9.19	9.70
5320MHz	Pass	7.30	2.62	3.41	3.19	2.98	8.97	9.70
5500MHz	Pass	7.03	2.78	3.24	3.33	4.32	9.40	9.97
5580MHz	Pass	7.03	2.89	3.10	3.01	4.47	9.37	9.97
5700MHz	Pass	7.03	-1.24	-1.36	-1.28	0.18	5.08	9.97
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	3.34	3.55	3.86	4.86	9.87	9.97
5720MHz Straddle 5.725-5.85GHz	Pass	7.03	1.58	1.75	2.22	3.09	8.16	28.97
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.30	0.27	0.99	0.43	0.51	6.51	9.70
5310MHz	Pass	7.30	0.10	0.66	0.68	0.10	6.32	9.70
5510MHz	Pass	7.03	0.85	1.41	1.61	1.73	7.37	9.97
5550MHz	Pass	7.03	0.76	1.25	1.45	1.78	7.27	9.97
5670MHz	Pass	7.03	1.57	0.93	2.07	0.44	7.20	9.97
5710MHz Straddle 5.47-5.725GHz	Pass	7.03	1.99	1.60	2.63	1.19	7.80	9.97
5710MHz Straddle 5.725-5.85GHz	Pass	7.03	-0.17	-0.56	0.24	-0.77	5.63	28.97
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.30	1.55	2.24	1.83	1.58	7.61	9.70
5310MHz	Pass	7.30	1.45	1.80	1.75	0.97	7.34	9.70
5510MHz	Pass	7.03	0.92	1.35	1.69	1.68	7.33	9.97
5550MHz	Pass	7.03	0.98	1.50	1.89	2.12	7.52	9.97
5670MHz	Pass	7.03	1.72	1.07	2.40	0.57	7.39	9.97
5710MHz Straddle 5.47-5.725GHz	Pass	7.03	2.00	1.63	2.75	1.12	7.84	9.97
5710MHz Straddle 5.725-5.85GHz	Pass	7.03	-0.09	-0.52	0.49	-0.61	5.76	28.97
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-

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)
5290MHz	Pass	7.30	-3.33	-2.07	-2.60	-3.29	3.01	9.70
5530MHz	Pass	7.03	-1.64	-2.12	-0.66	-0.42	4.82	9.97
5610MHz	Pass	7.03	-1.14	-1.58	-1.02	-1.32	4.70	9.97
5690MHz Straddle 5.47-5.725GHz	Pass	7.03	-1.55	-1.74	-1.34	-1.76	4.36	9.97
5690MHz Straddle 5.725-5.85GHz	Pass	7.03	-3.97	-4.64	-4.23	-3.86	1.72	28.97
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.30	-2.02	-0.58	-1.46	-2.20	4.18	9.70
5530MHz	Pass	7.03	-1.00	-1.67	-0.27	0.11	5.24	9.97
5610MHz	Pass	7.03	-0.96	-1.36	-0.66	-0.93	4.98	9.97
5690MHz Straddle 5.47-5.725GHz	Pass	7.03	-1.25	-1.39	-0.94	-1.41	4.70	9.97
5690MHz Straddle 5.725-5.85GHz	Pass	7.03	-3.78	-4.19	-3.76	-3.42	2.15	28.97
802.11ac VHT160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.30	-6.45	-6.01	-6.37	-6.37	-0.48	15.70
5250MHz Straddle 5.25-5.35GHz	Pass	7.30	-7.39	-6.02	-6.57	-7.27	-0.94	9.70
5570MHz	Pass	7.03	-4.77	-4.97	-5.00	-5.94	0.70	9.97
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.30	-6.27	-5.52	-6.03	-5.95	-0.11	15.70
5250MHz Straddle 5.25-5.35GHz	Pass	7.30	-6.72	-5.67	-6.00	-6.37	-0.34	9.70
5570MHz	Pass	7.03	-5.56	-4.76	-4.47	-4.15	1.15	9.97
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.30	1.65	2.13	2.10	2.51	8.05	9.70
5300MHz	Pass	7.30	1.58	2.31	1.96	1.90	7.90	9.70
5320MHz	Pass	7.30	1.45	2.19	1.86	1.78	7.77	9.70
5500MHz	Pass	7.03	2.91	3.02	3.04	4.34	9.32	9.97
5580MHz	Pass	7.03	2.77	2.94	2.85	4.42	9.25	9.97
5700MHz	Pass	7.03	2.03	2.02	2.38	3.35	8.42	9.97
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	2.90	2.84	3.16	4.22	9.28	9.97
5720MHz Straddle 5.725-5.85GHz	Pass	7.03	1.07	1.11	1.37	2.54	7.53	28.97
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5260MHz	Pass	7.30	1.73	2.25	2.30	2.39	8.13	9.70
5300MHz	Pass	7.30	1.70	2.33	2.08	1.93	7.93	9.70
5320MHz	Pass	7.30	1.53	2.07	1.98	1.64	7.74	9.70
5500MHz	Pass	7.03	2.10	2.41	2.42	3.56	8.61	9.97
5580MHz	Pass	7.03	2.02	2.23	2.14	3.58	8.49	9.97
5700MHz	Pass	7.03	1.39	1.43	1.82	2.66	7.78	9.97
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	2.92	2.96	3.20	4.27	9.31	9.97
5720MHz Straddle 5.725-5.85GHz	Pass	7.03	1.05	1.09	1.38	2.47	7.55	28.97
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.30	-1.22	-0.58	-0.50	-0.51	5.25	9.70
5310MHz	Pass	7.30	-1.06	-0.56	-0.62	-1.05	5.16	9.70
5510MHz	Pass	7.03	-0.65	-0.21	0.09	0.69	5.92	9.97
5550MHz	Pass	7.03	-0.35	-0.09	0.39	0.95	6.15	9.97
5670MHz	Pass	7.03	0.65	-0.10	0.87	-0.30	6.22	9.97
5710MHz Straddle 5.47-5.725GHz	Pass	7.03	0.74	0.13	1.34	0.01	6.52	9.97
5710MHz Straddle 5.725-5.85GHz	Pass	7.03	-1.55	-2.32	-1.21	-2.05	4.24	28.97

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)
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5270MHz	Pass	7.30	0.16	0.86	0.66	0.52	6.33	9.70
5310MHz	Pass	7.30	0.18	0.68	0.85	-0.19	6.24	9.70
5510MHz	Pass	7.03	-0.43	-0.01	0.25	0.69	6.08	9.97
5550MHz	Pass	7.03	-0.01	0.32	0.61	1.39	6.48	9.97
5670MHz	Pass	7.03	0.80	-0.03	1.08	0.01	6.43	9.97
5710MHz Straddle 5.47-5.725GHz	Pass	7.03	1.05	0.36	1.26	0.18	6.71	9.97
5710MHz Straddle 5.725-5.85GHz	Pass	7.03	-1.27	-1.87	-0.96	-1.57	4.50	28.97
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.30	-4.00	-2.78	-3.56	-4.01	2.27	9.70
5530MHz	Pass	7.03	-3.54	-4.17	-2.95	-2.70	2.67	9.97
5610MHz	Pass	7.03	-1.93	-2.65	-1.87	-2.12	3.82	9.97
5690MHz Straddle 5.47-5.725GHz	Pass	7.03	-1.84	-2.80	-2.12	-2.13	3.76	9.97
5690MHz Straddle 5.725-5.85GHz	Pass	7.03	-4.72	-5.58	-5.18	-4.37	1.02	28.97
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5290MHz	Pass	7.30	-2.84	-1.52	-2.17	-2.86	3.38	9.70
5530MHz	Pass	7.03	-3.29	-3.79	-2.65	-2.35	2.97	9.97
5610MHz	Pass	7.03	-1.65	-2.49	-2.08	-2.02	3.95	9.97
5690MHz Straddle 5.47-5.725GHz	Pass	7.03	-1.93	-2.52	-1.85	-2.05	3.87	9.97
5690MHz Straddle 5.725-5.85GHz	Pass	7.03	-4.46	-5.13	-4.59	-4.11	1.29	28.97
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.30	-5.75	-4.96	-5.07	-5.06	0.67	15.70
5250MHz Straddle 5.25-5.35GHz	Pass	7.30	-6.14	-4.92	-5.32	-5.92	0.37	9.70
5570MHz	Pass	7.03	-4.71	-4.92	-4.85	-6.03	0.72	9.97
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	7.30	-5.45	-5.03	-5.20	-5.01	0.69	15.70
5250MHz Straddle 5.25-5.35GHz	Pass	7.30	-5.83	-4.83	-5.21	-5.50	0.48	9.70
5570MHz	Pass	7.03	-5.75	-5.01	-5.02	-4.66	0.79	9.97

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

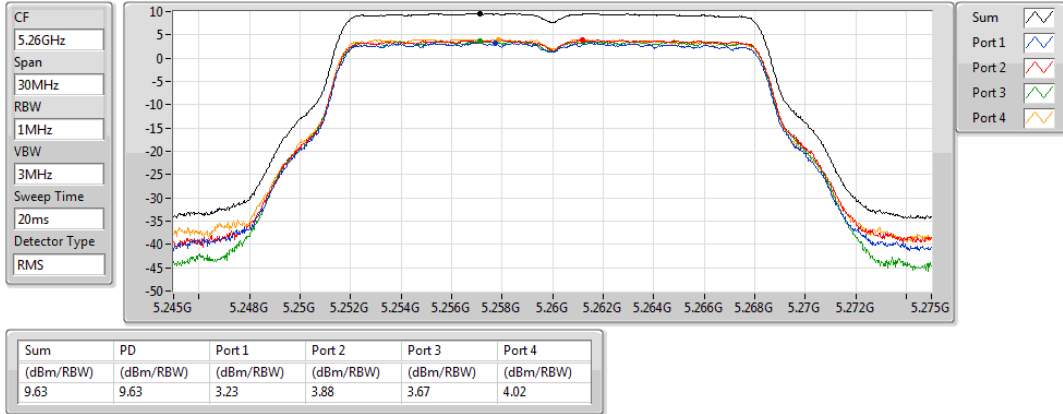
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_4TX

5260MHz

PSD

11/04/2019

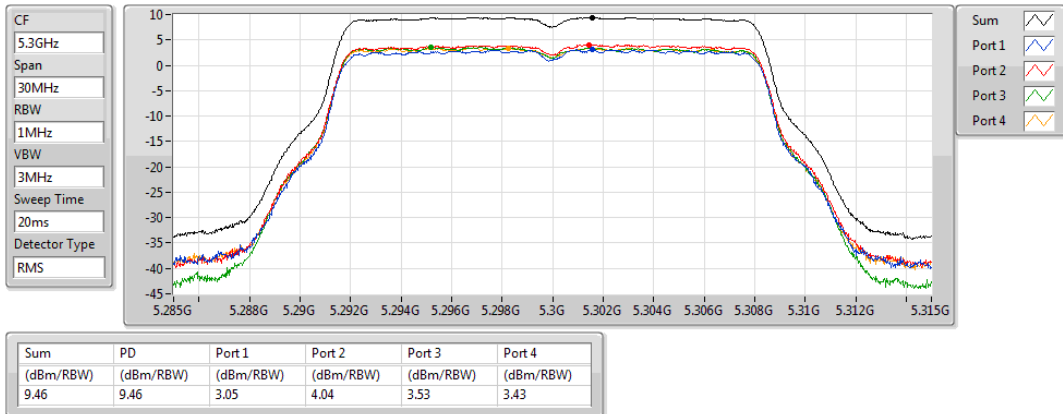


802.11a_Nss1,(6Mbps)_4TX

5300MHz

PSD

11/04/2019

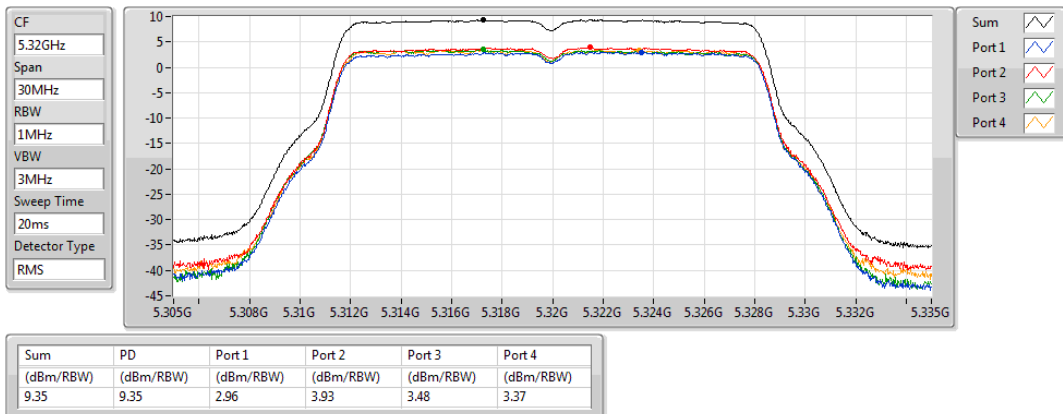


802.11a_Nss1,(6Mbps)_4TX

5320MHz

PSD

11/04/2019

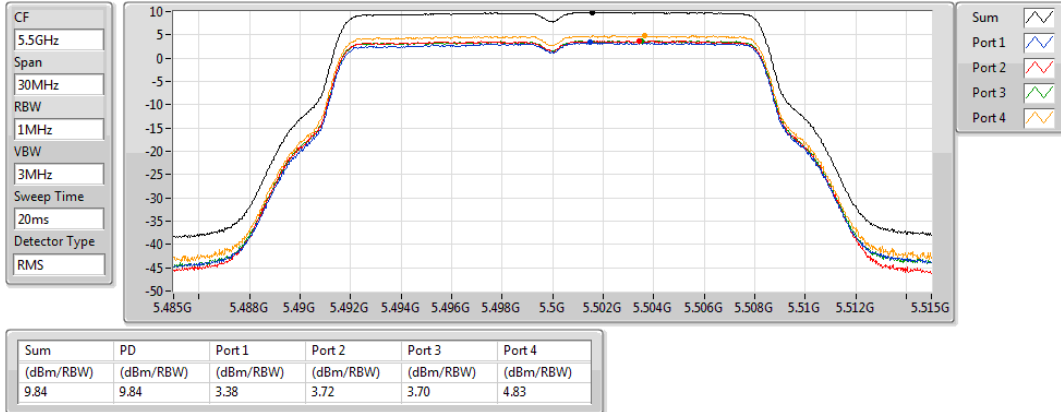


802.11a_Nss1,(6Mbps)_4TX

PSD

5500MHz

11/04/2019

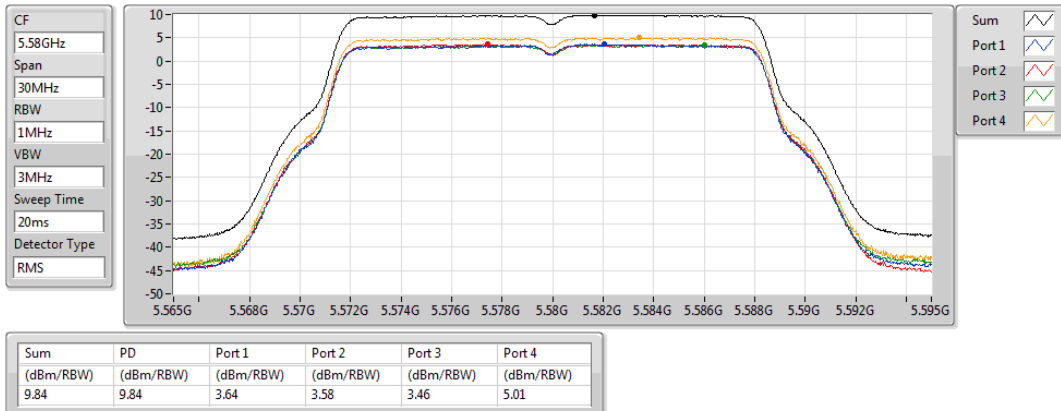


802.11a_Nss1,(6Mbps)_4TX

PSD

5580MHz

11/04/2019

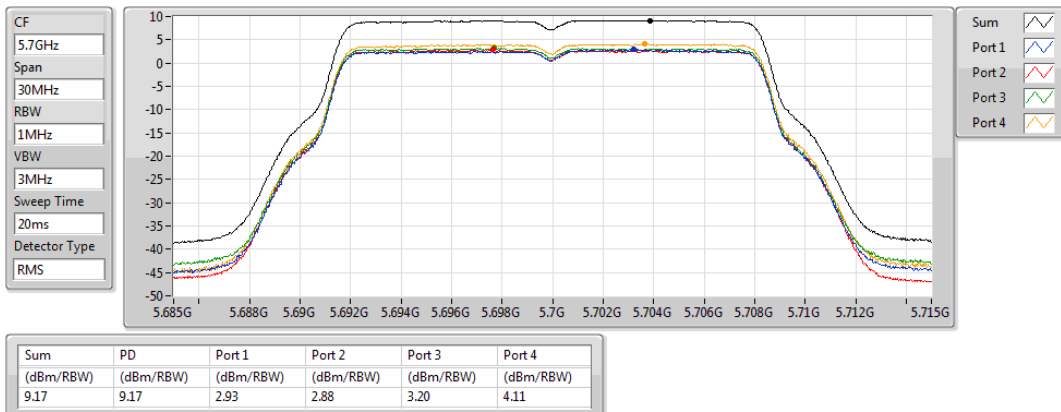


802.11a_Nss1,(6Mbps)_4TX

PSD

5700MHz

11/04/2019

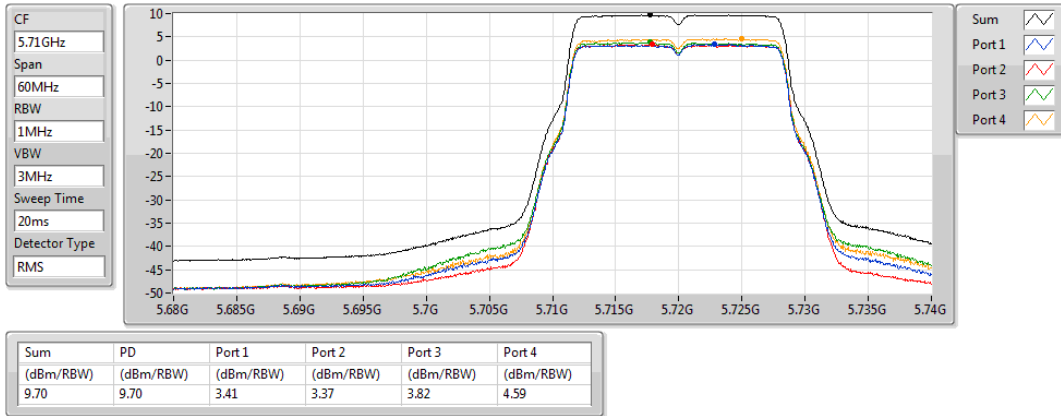


802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

11/04/2019

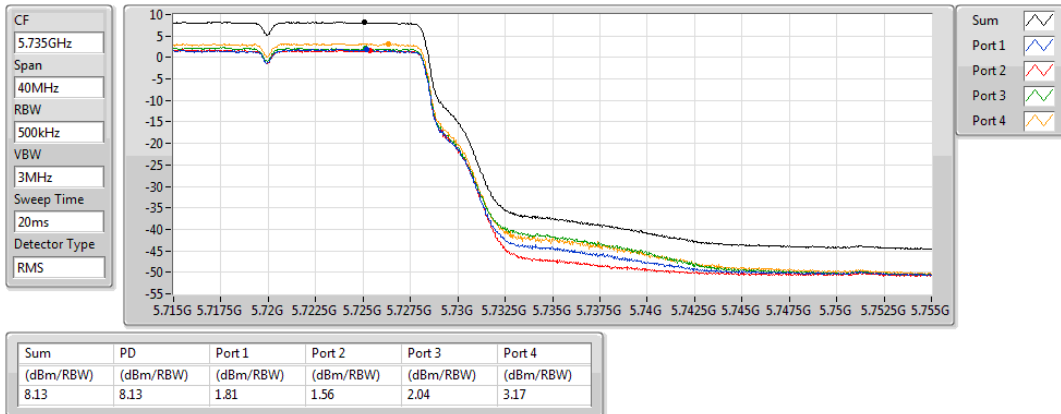


802.11a_Nss1,(6Mbps)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

11/04/2019

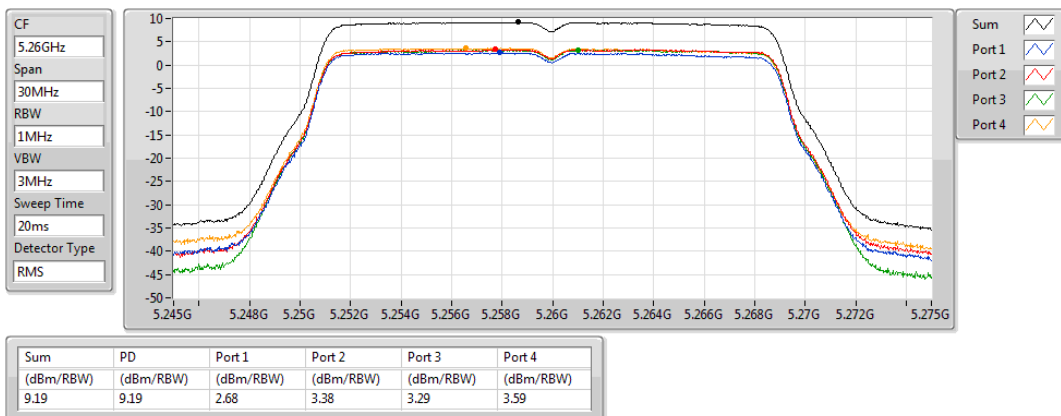


802.11ac VHT20_Nss1,(MCS0)_4TX

5260MHz

PSD

11/04/2019

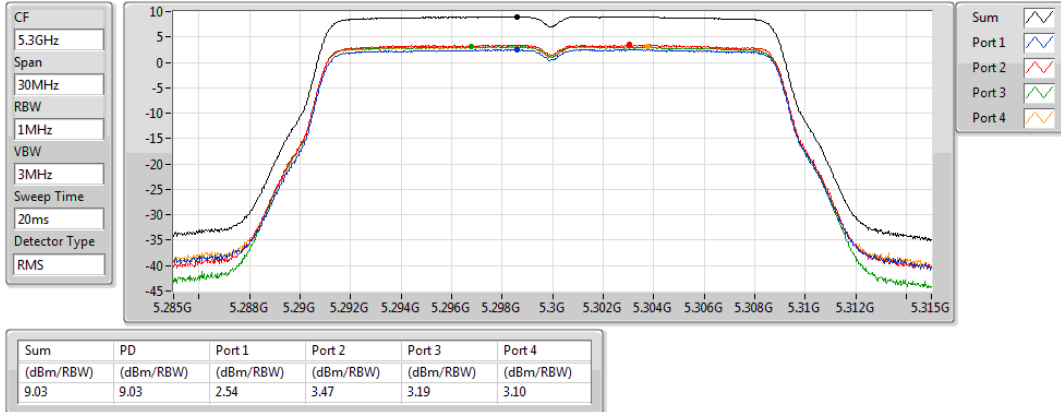


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5300MHz

11/04/2019

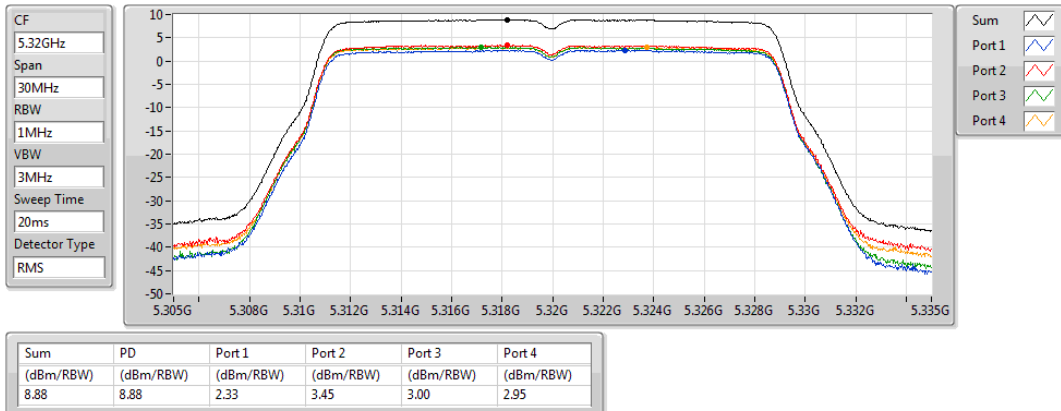


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5320MHz

11/04/2019

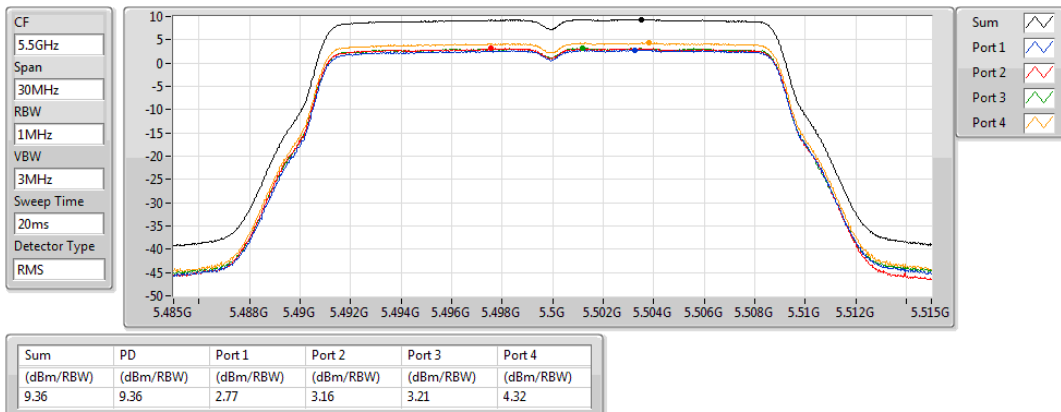


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5500MHz

11/04/2019

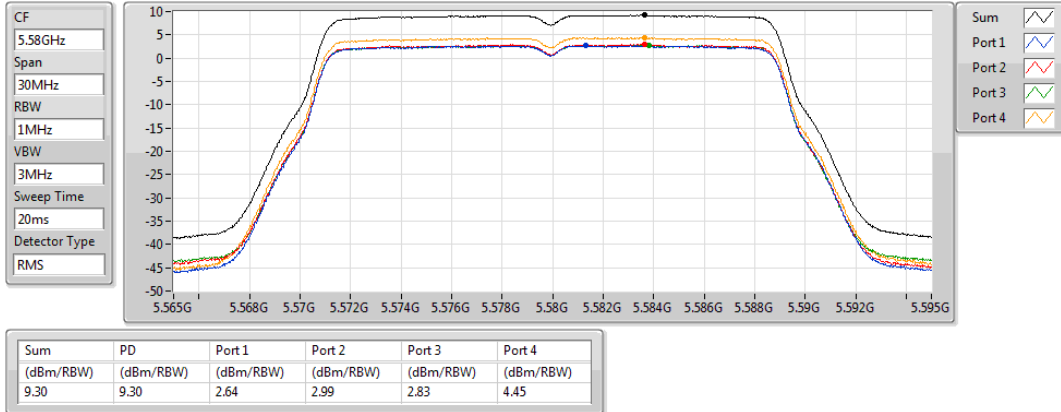


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5580MHz

11/04/2019

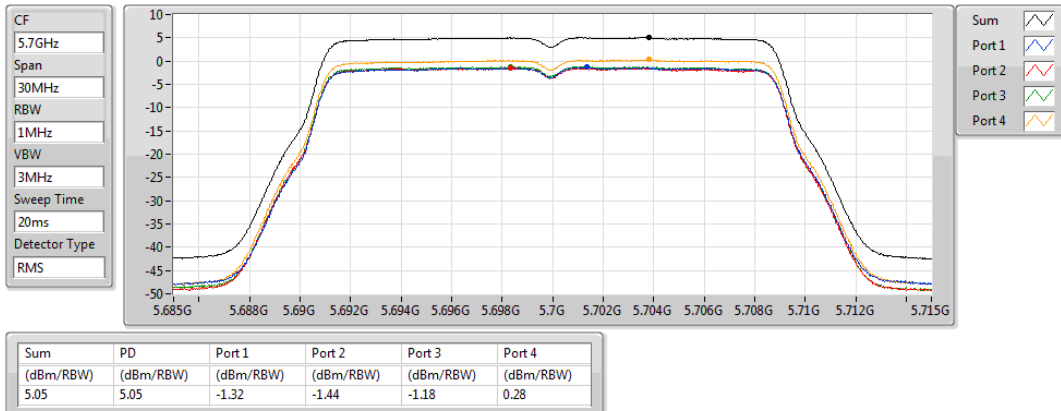


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5700MHz

11/04/2019

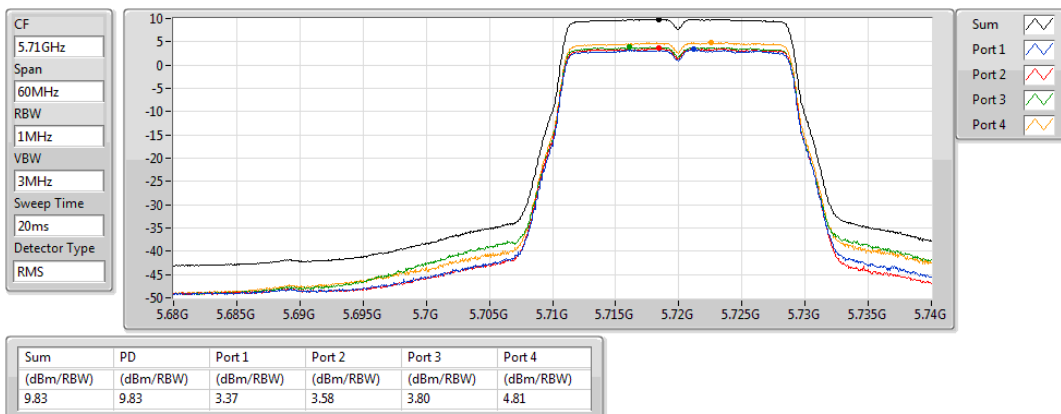


802.11ac VHT20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

11/04/2019

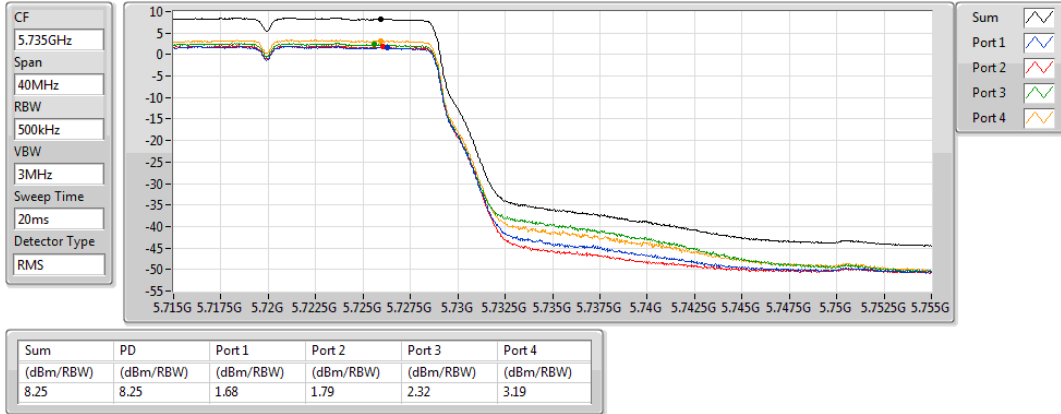


802.11ac VHT20_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

11/04/2019

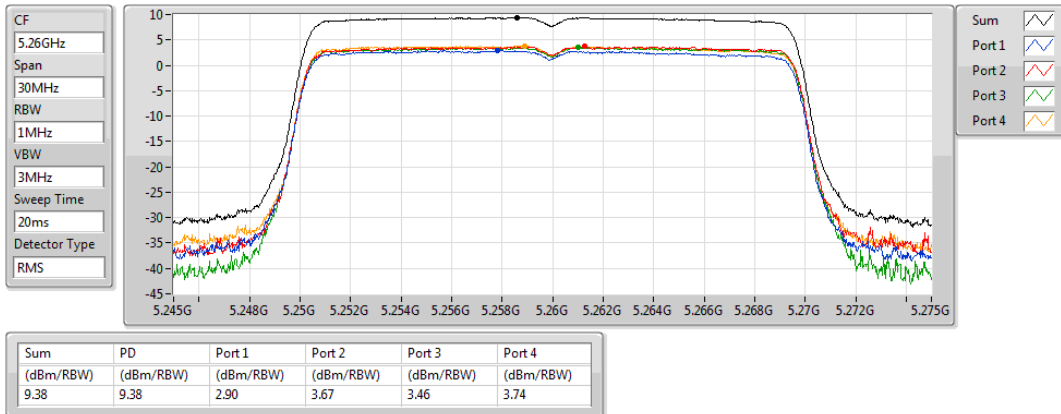


802.11ax HEW20_Nss1,(MCS0)_4TX

5260MHz

PSD

11/04/2019

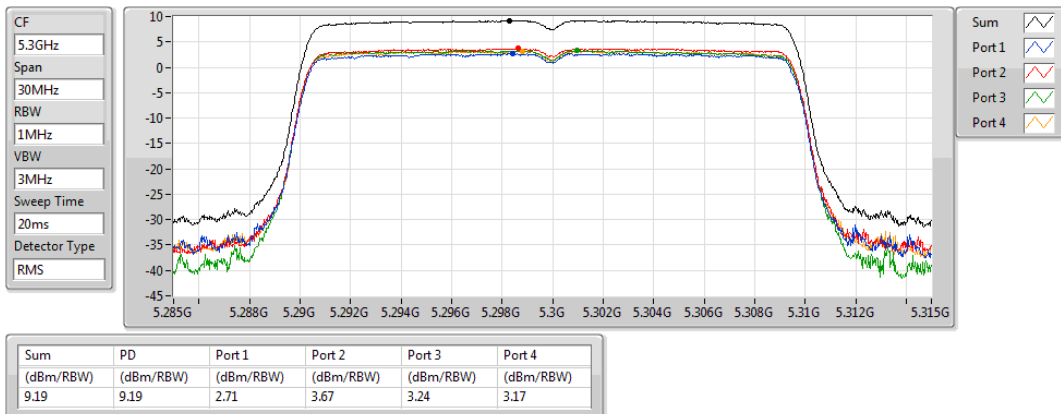


802.11ax HEW20_Nss1,(MCS0)_4TX

5300MHz

PSD

11/04/2019

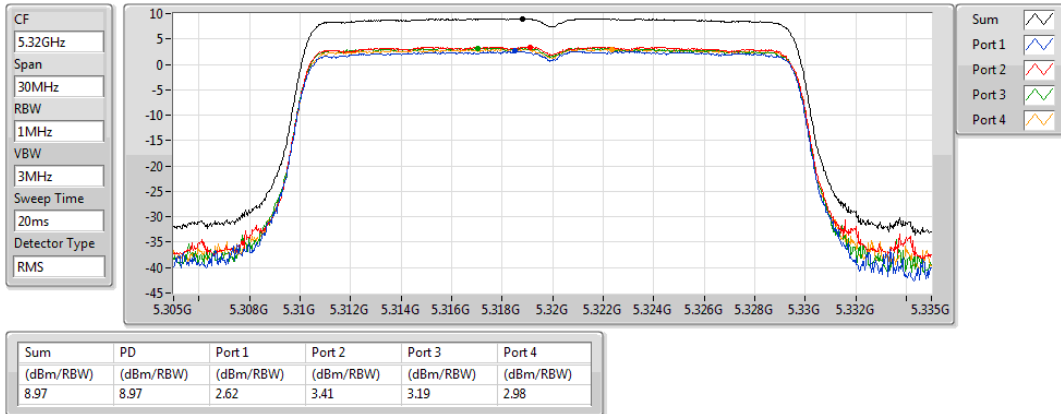


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5320MHz

11/04/2019

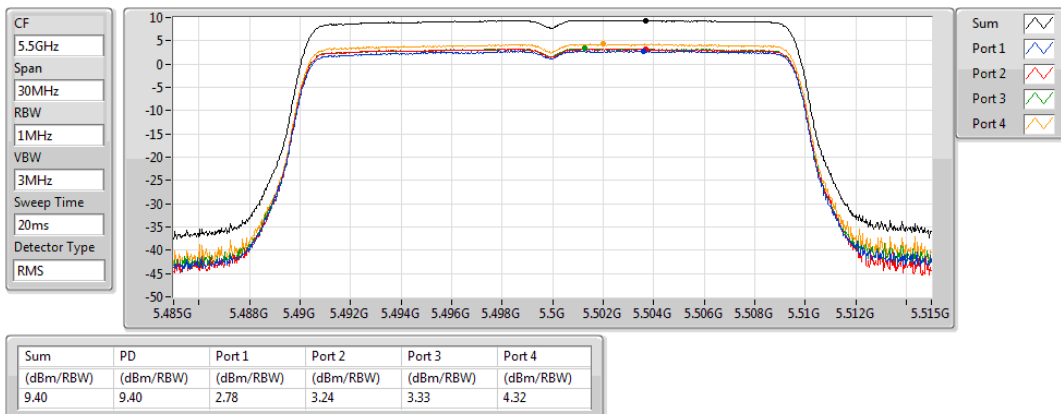


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5500MHz

11/04/2019

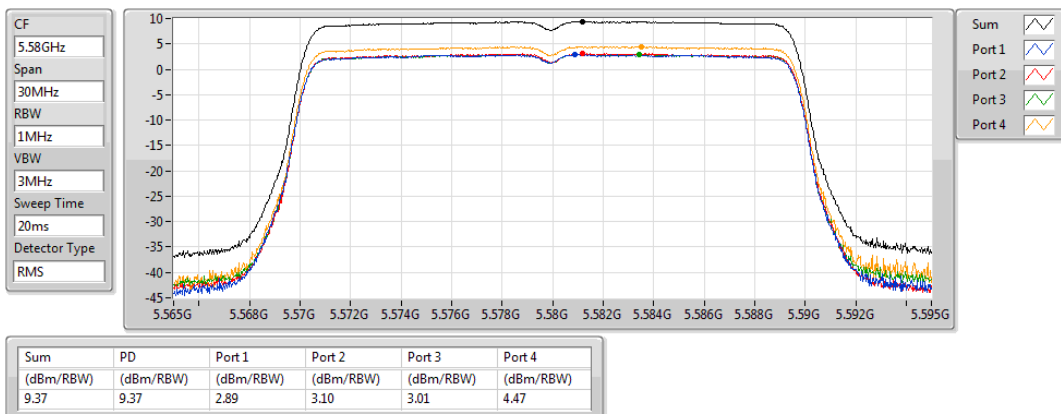


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5580MHz

11/04/2019

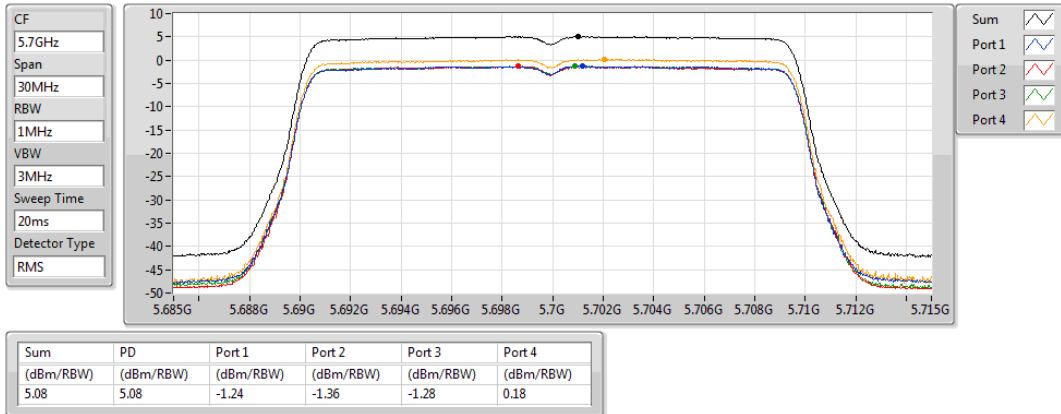


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5700MHz

11/04/2019

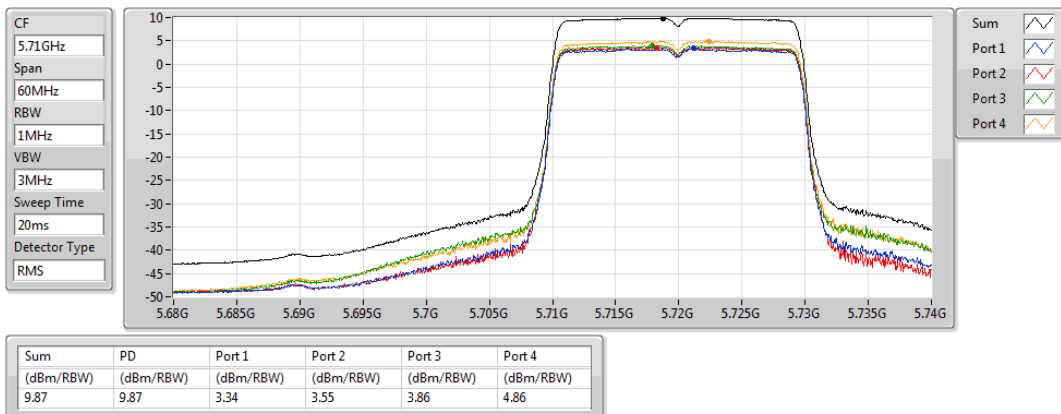


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

11/04/2019

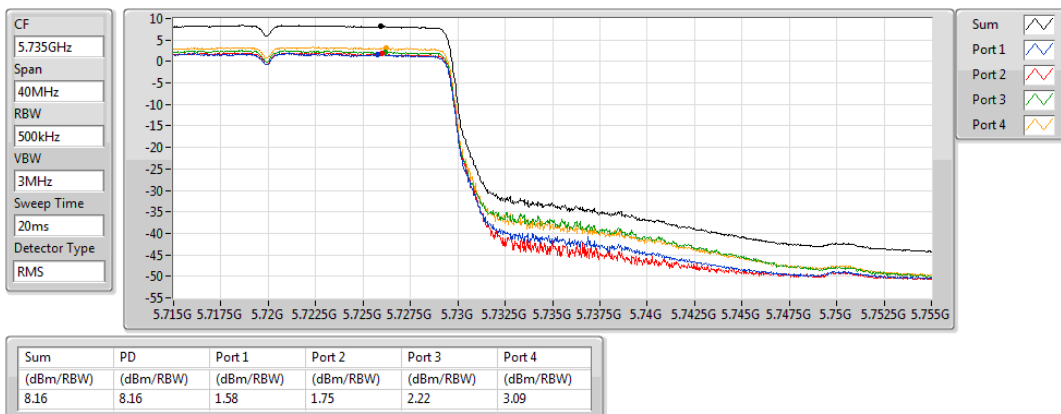


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

11/04/2019

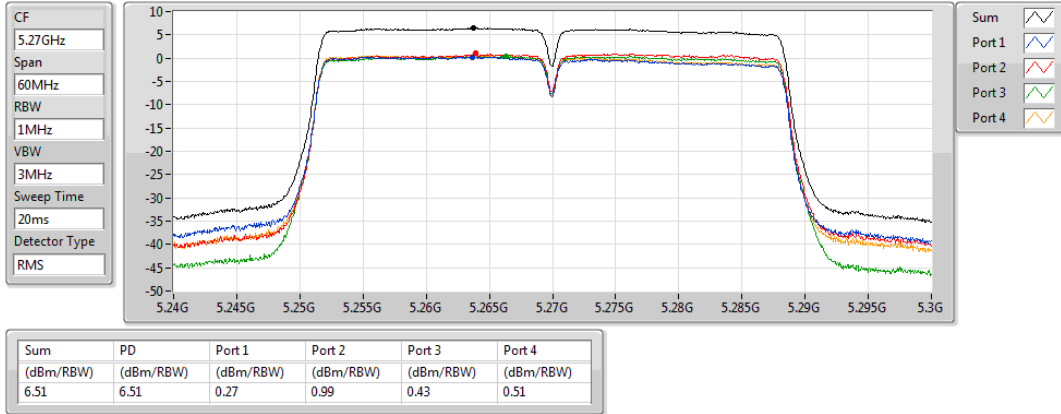


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5270MHz

11/04/2019

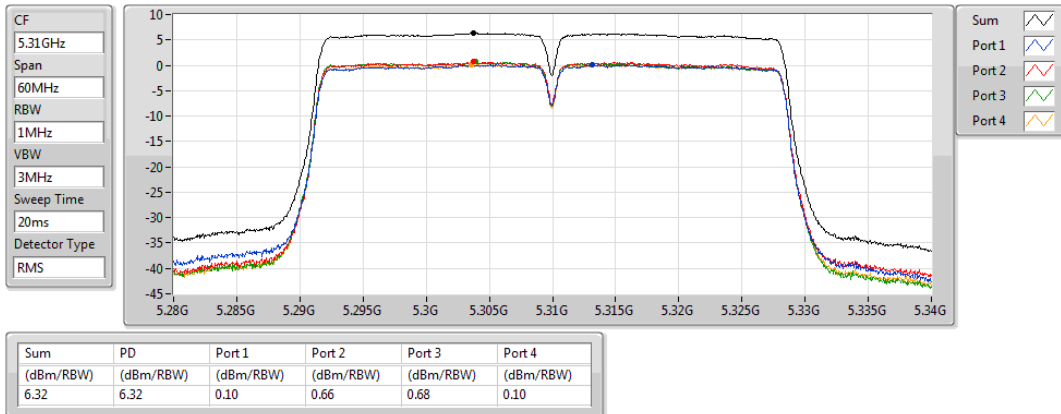


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5310MHz

11/04/2019

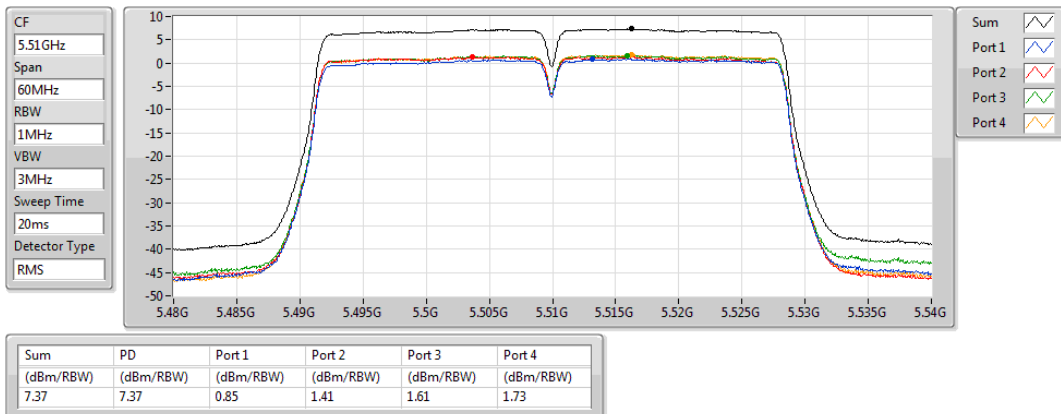


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5510MHz

11/04/2019

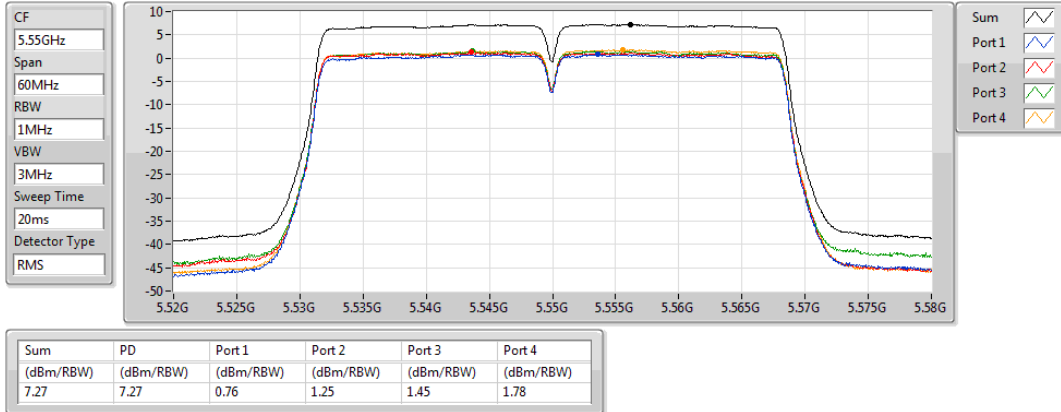


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5550MHz

11/04/2019

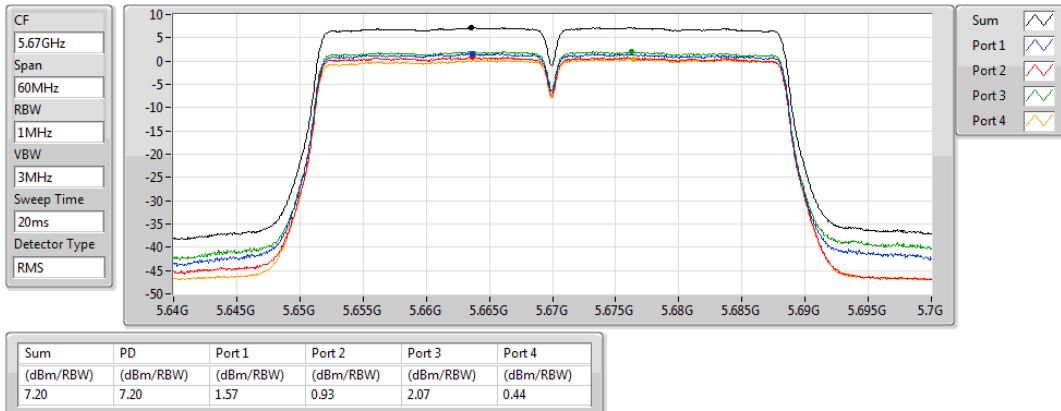


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5670MHz

11/04/2019

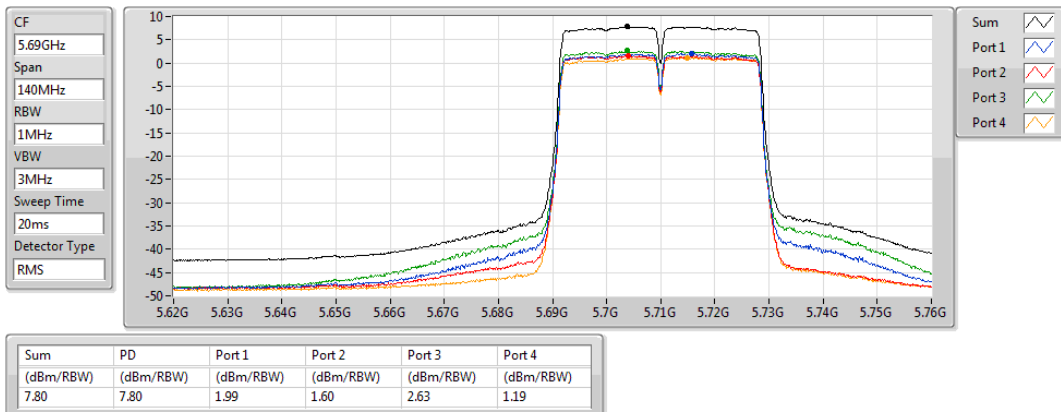


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

11/04/2019

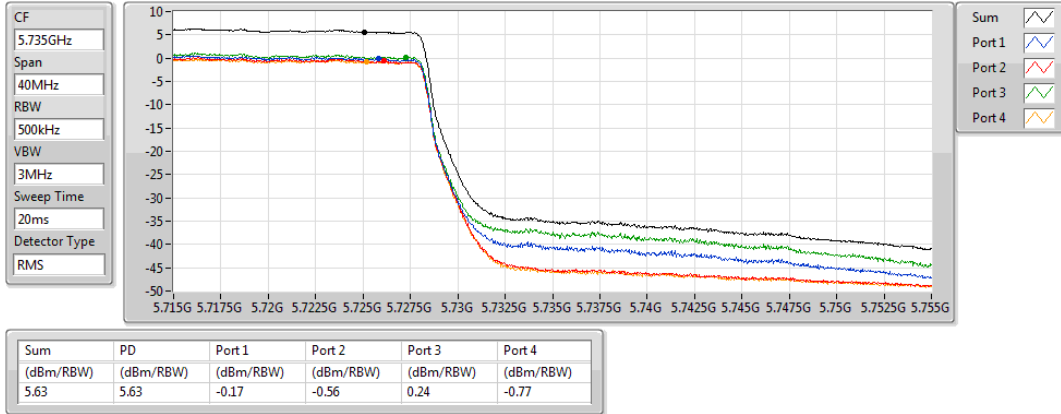


802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

11/04/2019

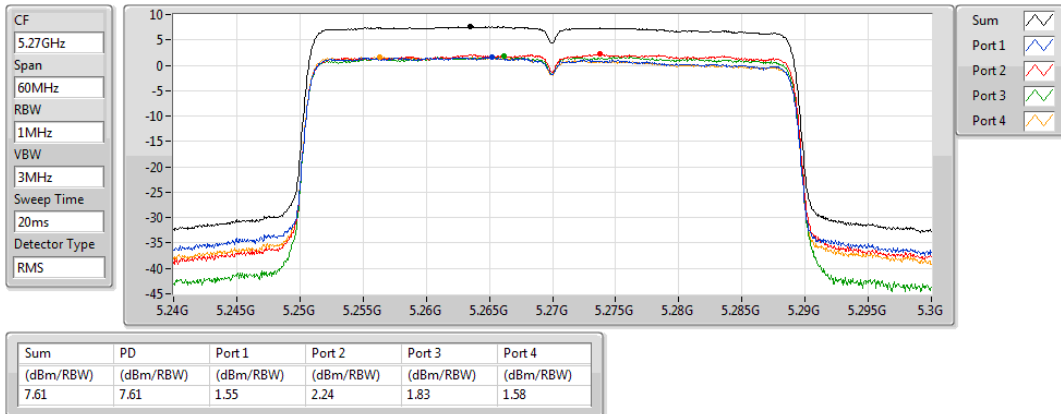


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5270MHz

11/04/2019

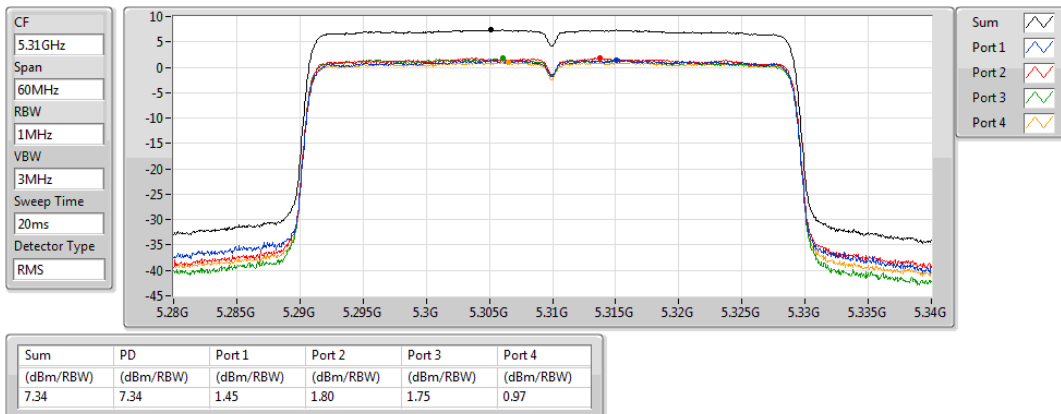


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5310MHz

11/04/2019

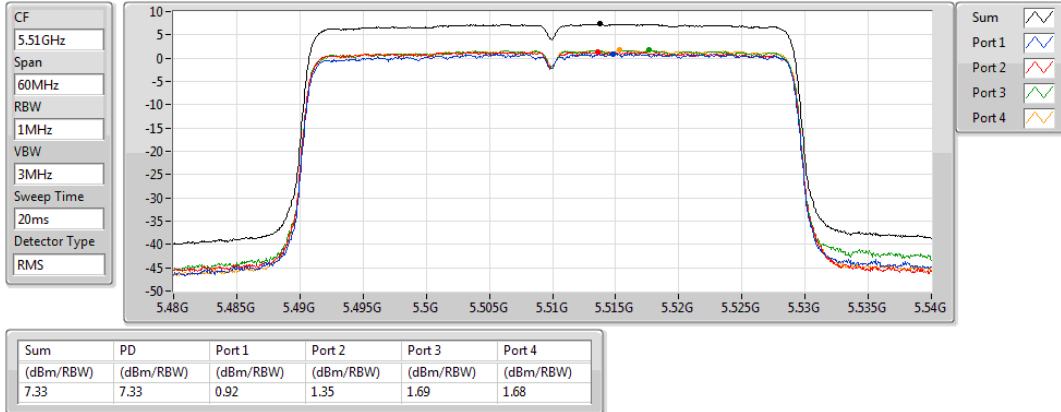


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5510MHz

11/04/2019

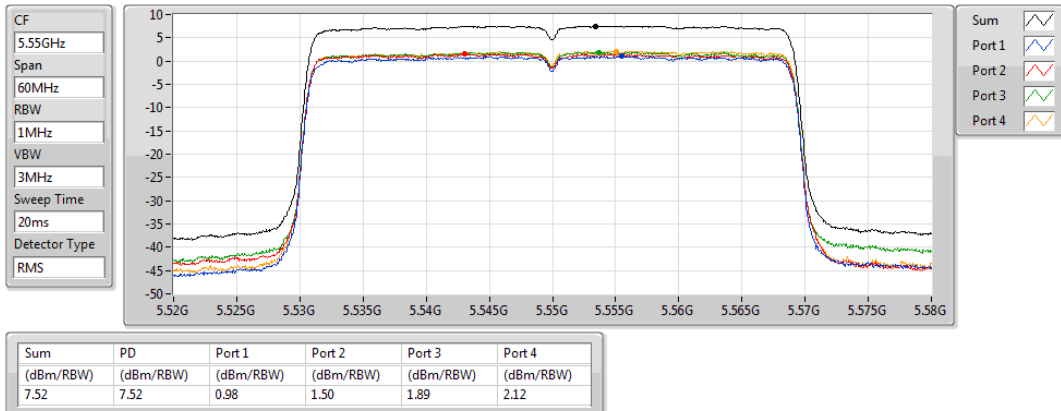


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5550MHz

10/04/2019

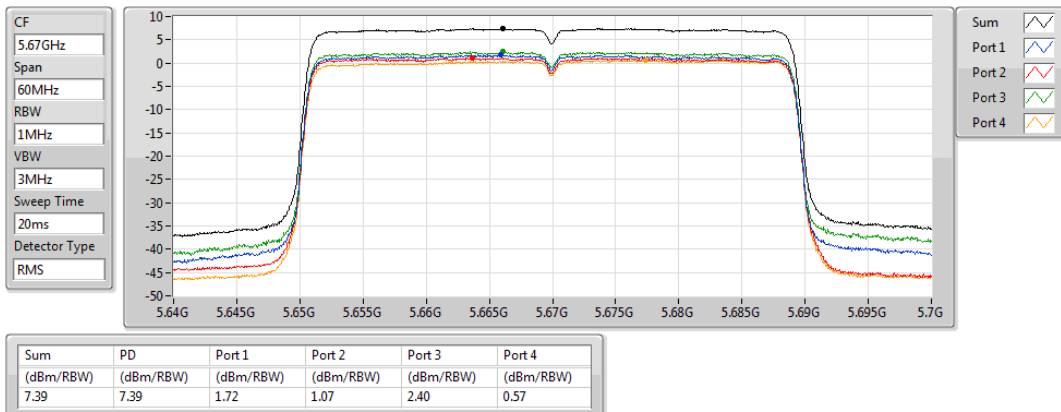


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5670MHz

10/04/2019

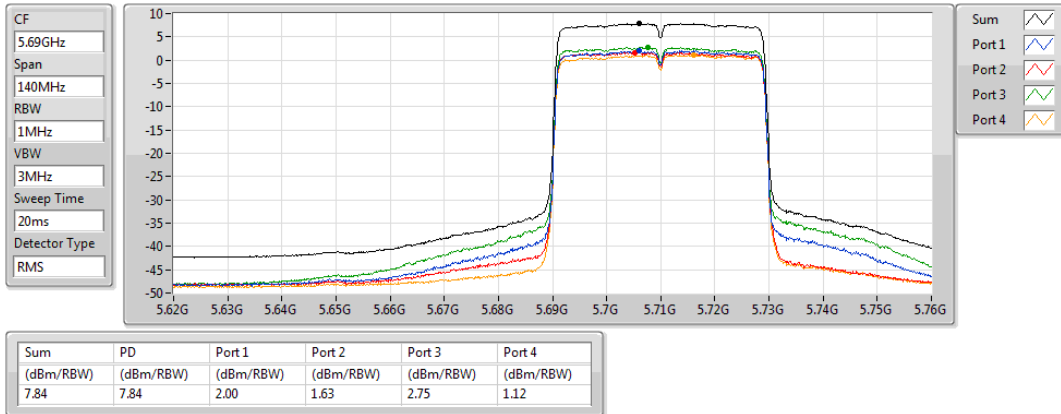


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

10/04/2019

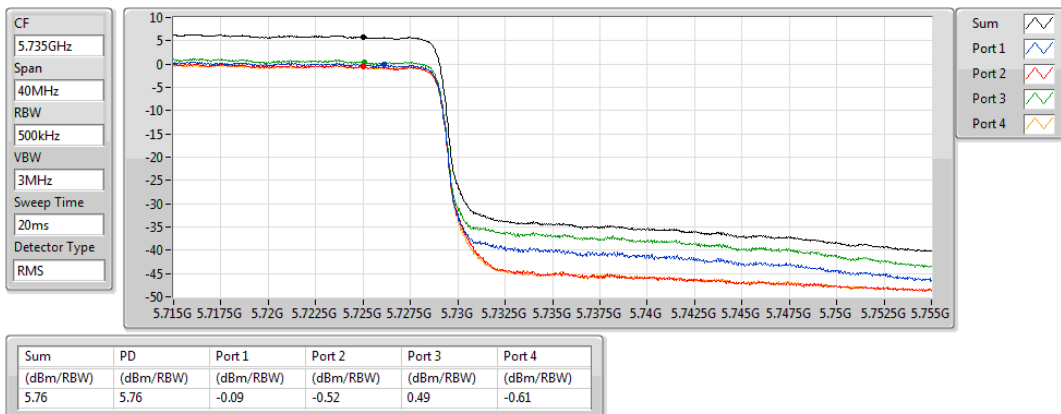


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

10/04/2019

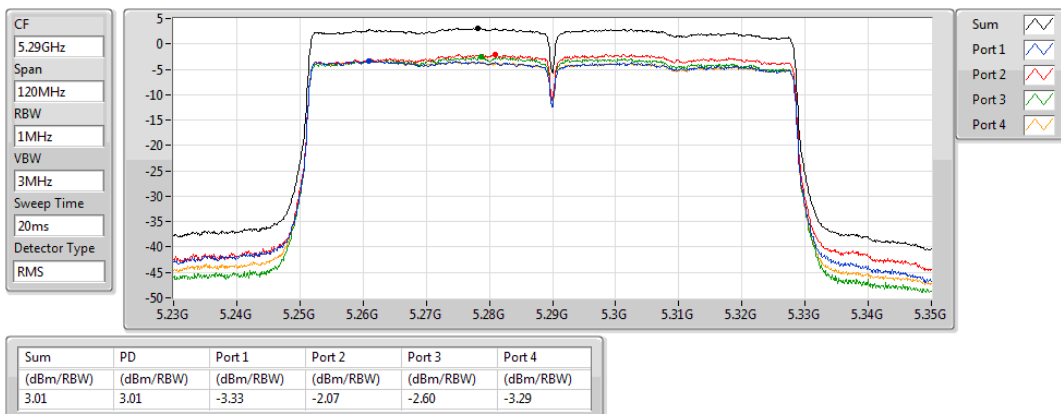


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5290MHz

11/04/2019

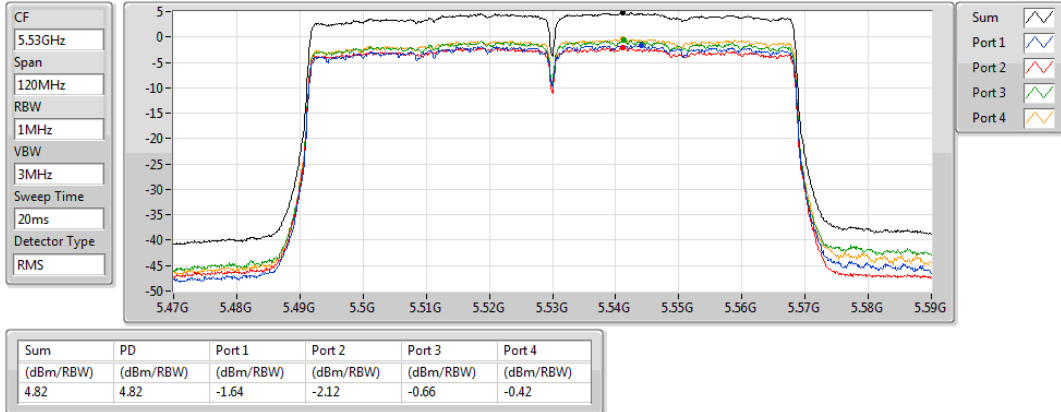


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5530MHz

11/04/2019

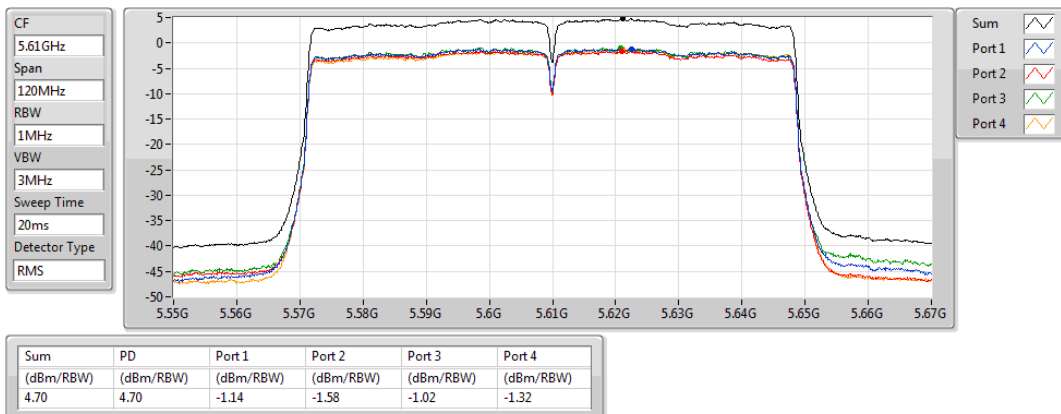


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5610MHz

11/04/2019

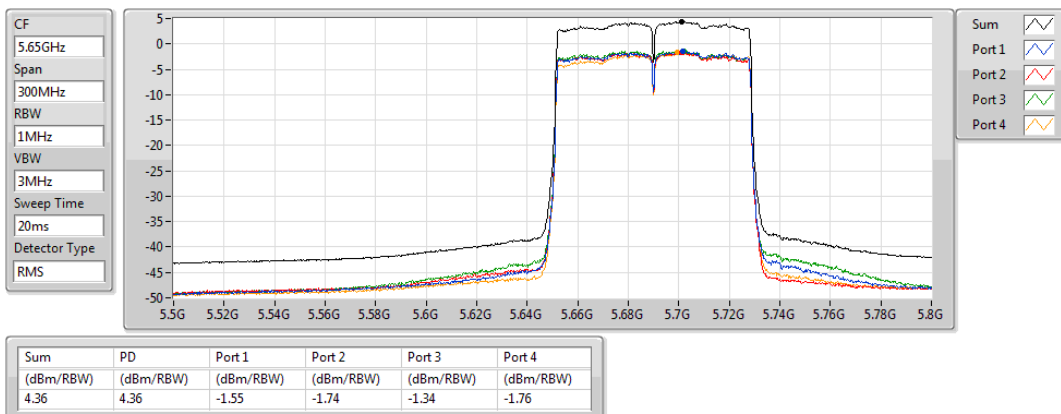


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

11/04/2019

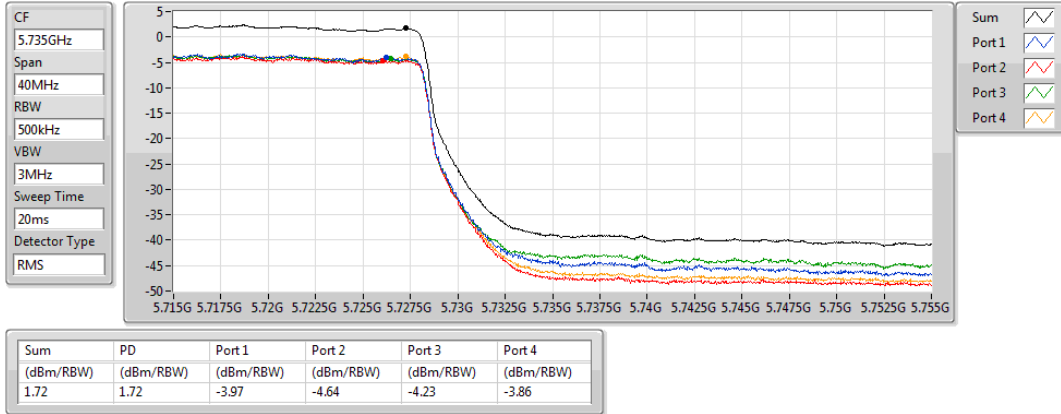


802.11ac VHT80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

11/04/2019

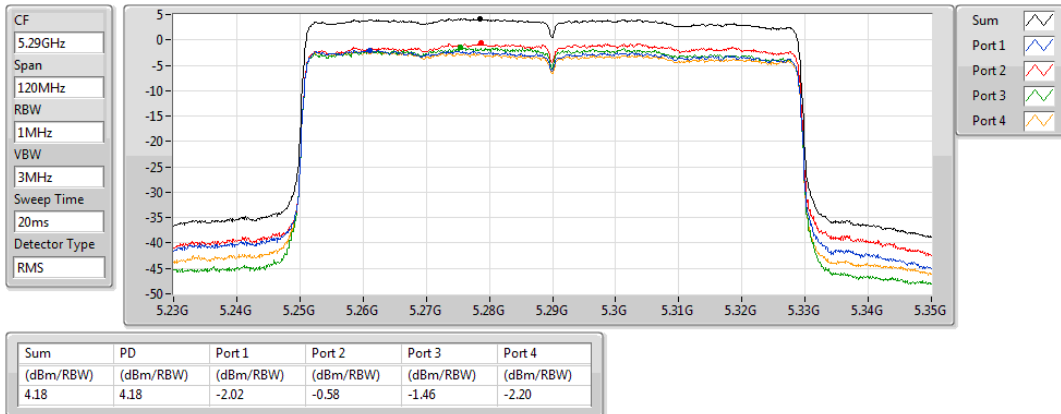


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5290MHz

11/04/2019

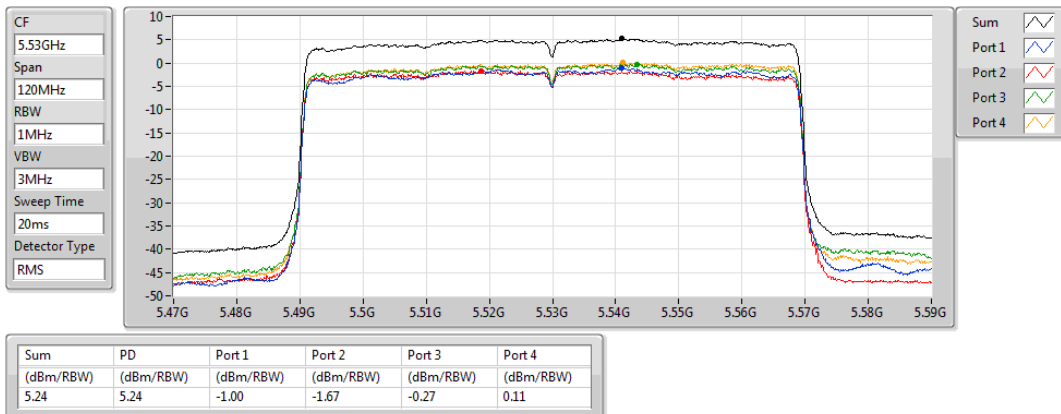


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5530MHz

10/04/2019

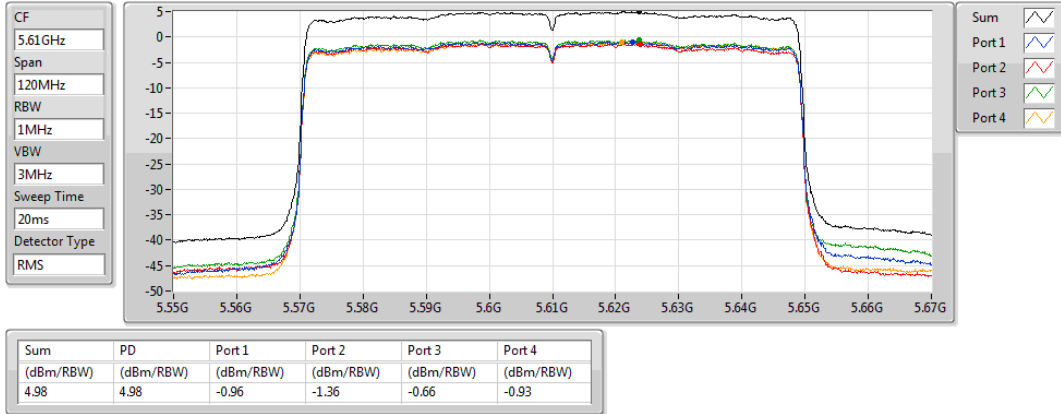


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5610MHz

10/04/2019

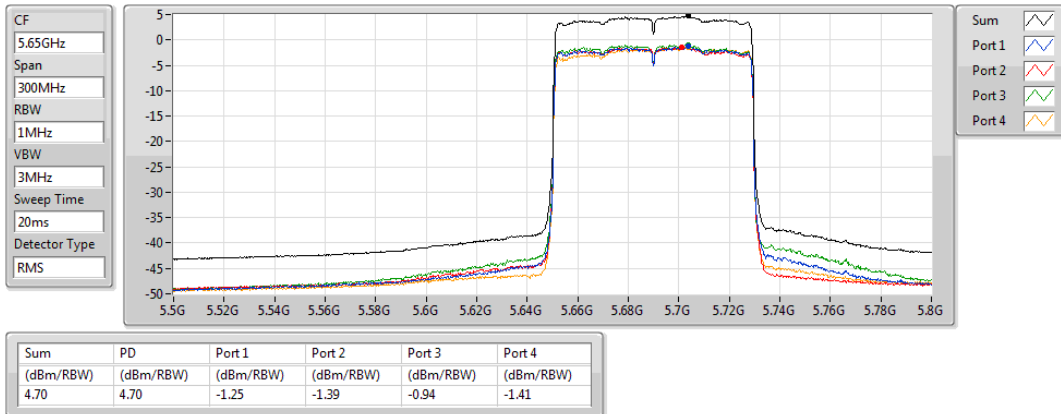


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

10/04/2019

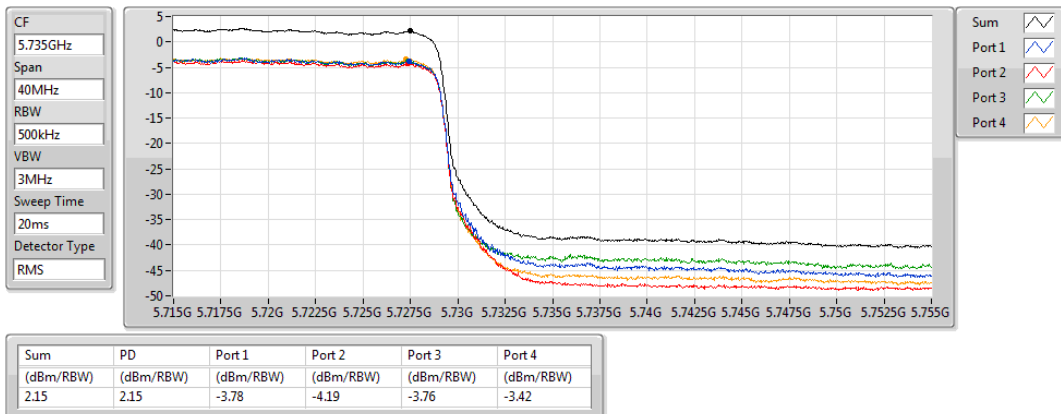


802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

10/04/2019

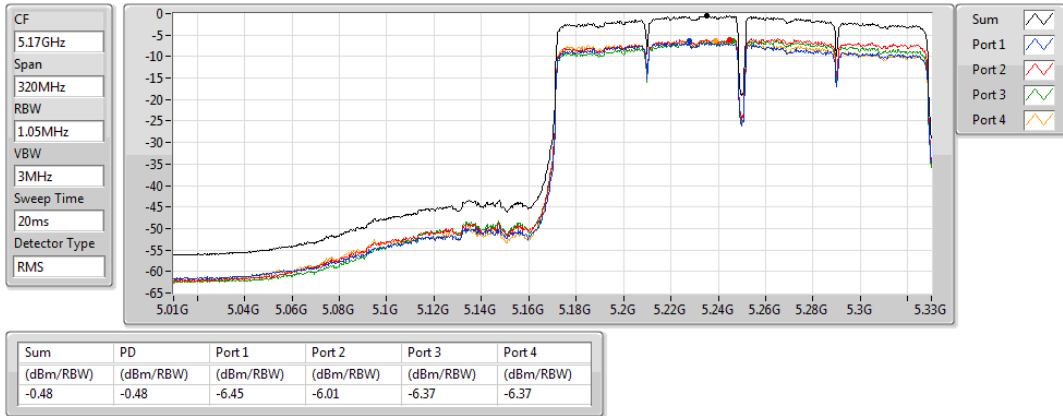


802.11ac VHT160_Nss1,(MCS0)_4TX

5250MHz Straddle 5.15-5.25GHz

PSD

15/07/2019

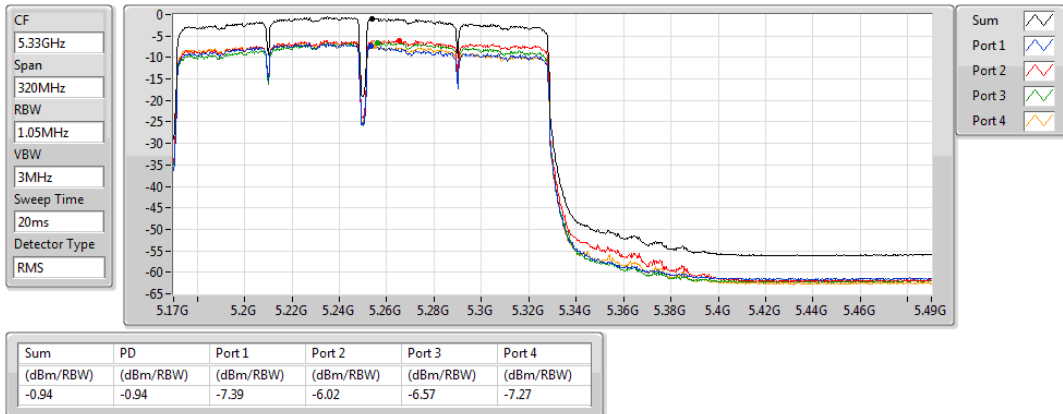


802.11ac VHT160_Nss1,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz

PSD

15/07/2019

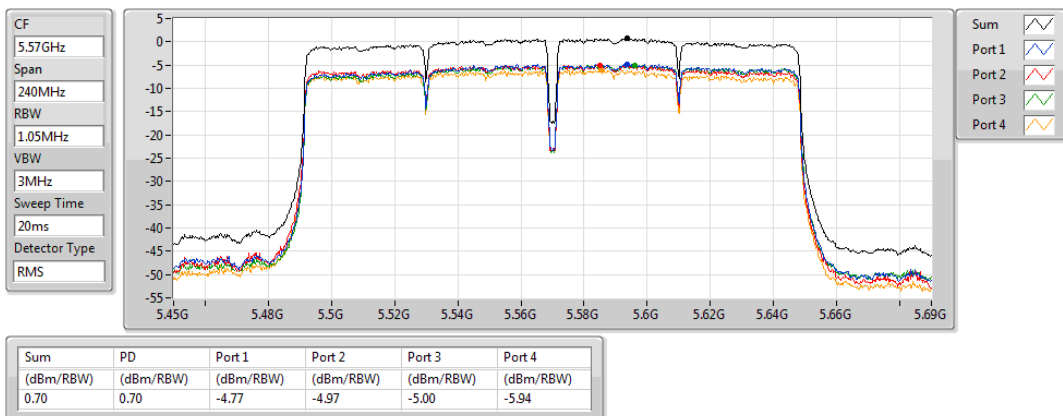


802.11ac VHT160_Nss1,(MCS0)_4TX

5570MHz

PSD

15/07/2019

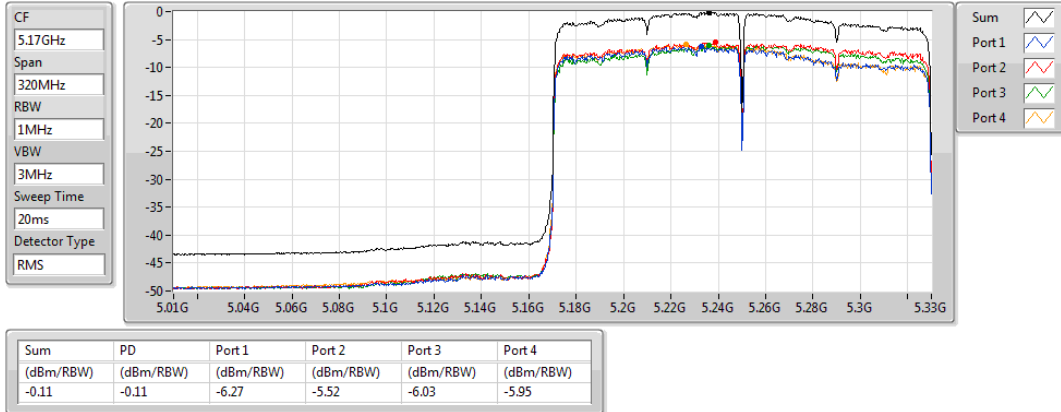


802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

11/04/2019

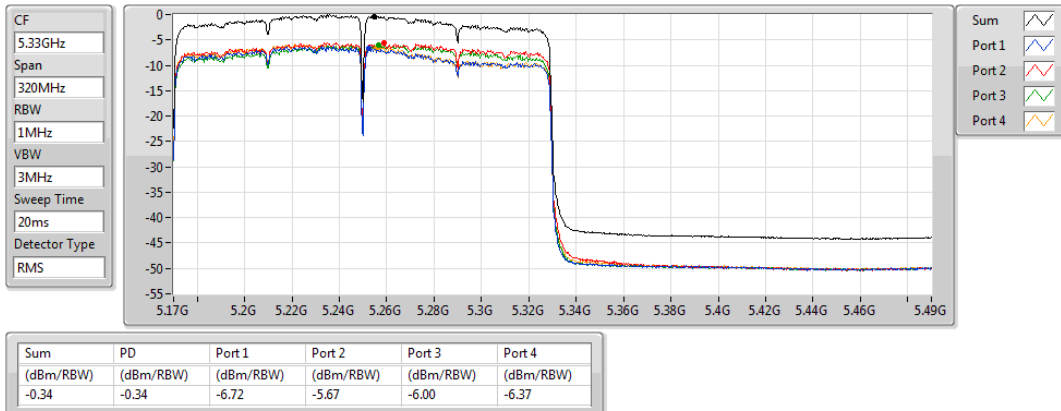


802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

11/04/2019

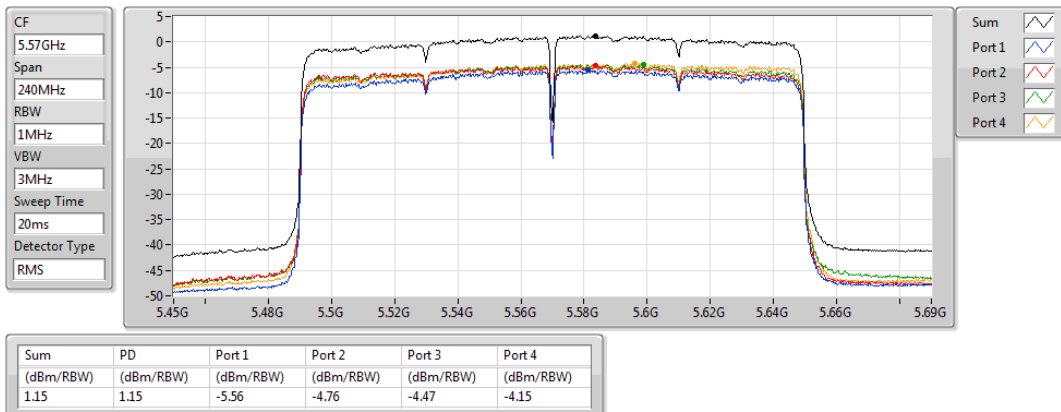


802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5570MHz

10/04/2019

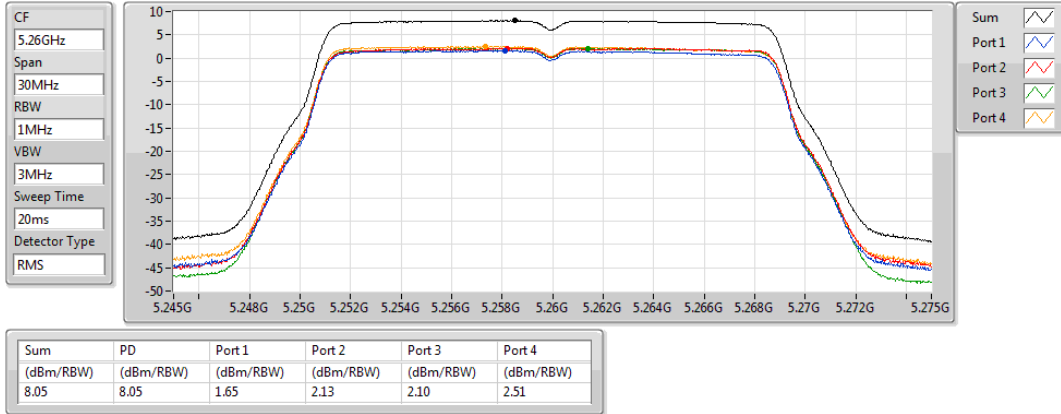


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5260MHz

11/04/2019

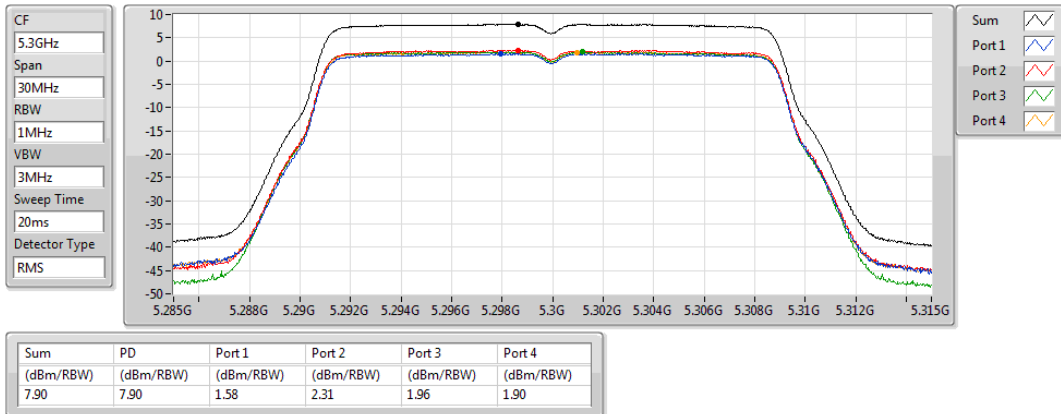


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5300MHz

11/04/2019

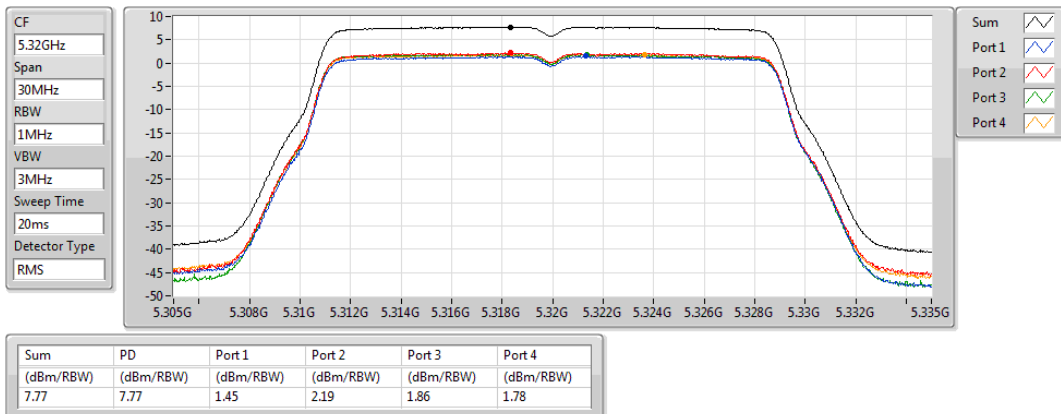


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5320MHz

11/04/2019

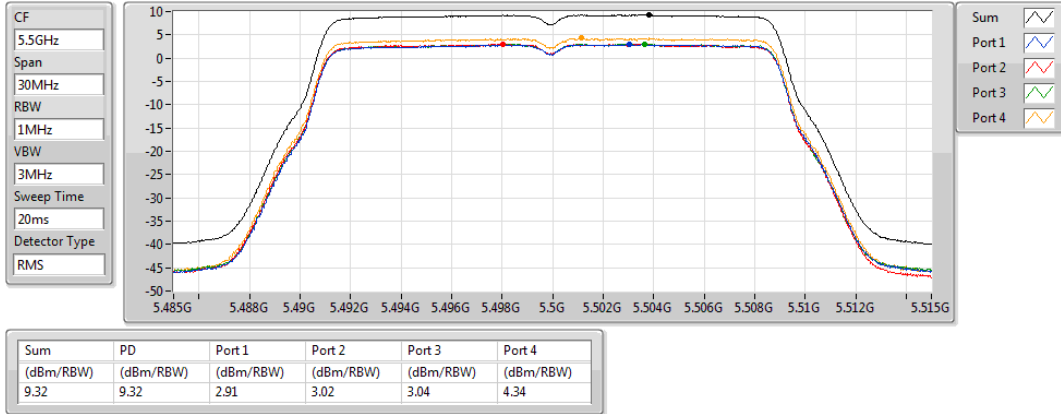


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

11/04/2019

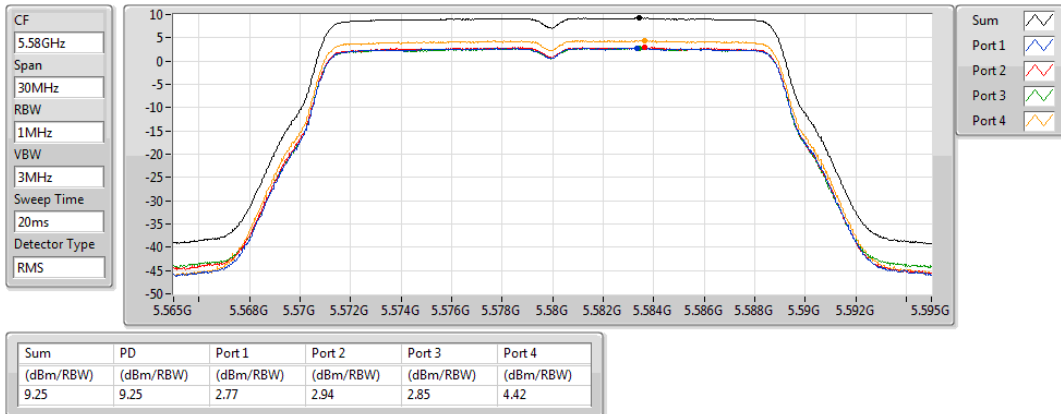


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

11/04/2019

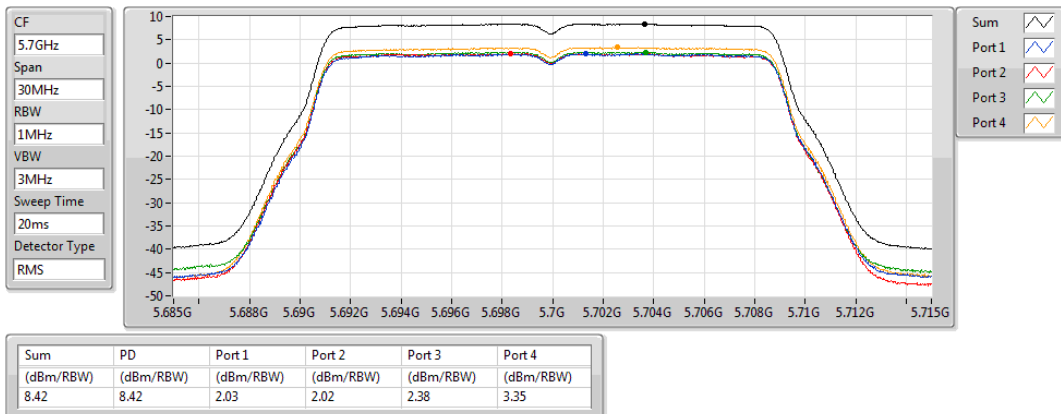


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

PSD

5700MHz

11/04/2019

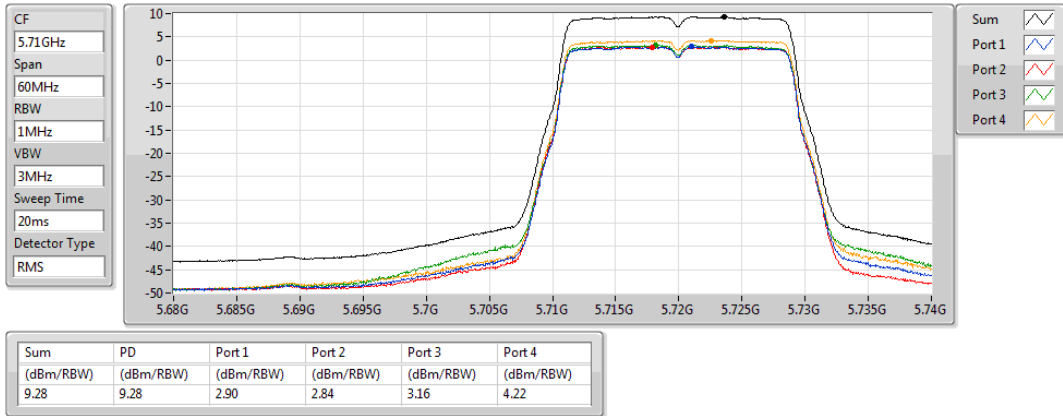


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

11/04/2019

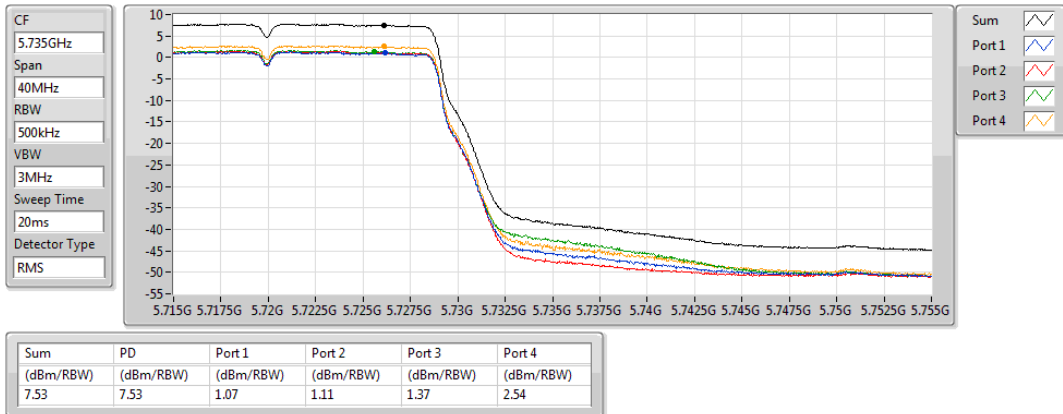


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

11/04/2019

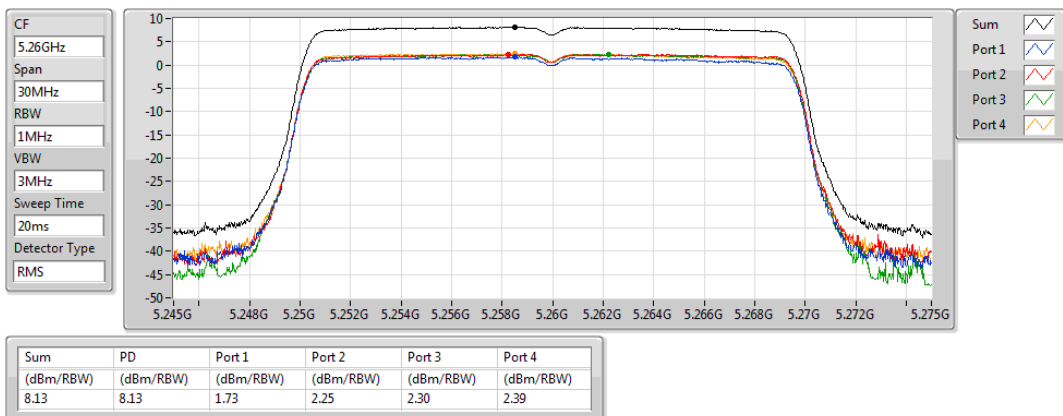


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5260MHz

PSD

11/04/2019

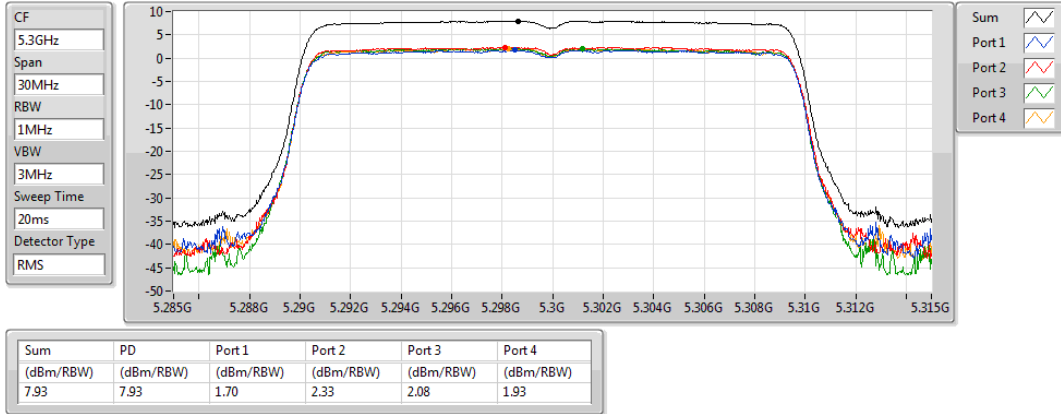


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5300MHz

11/04/2019

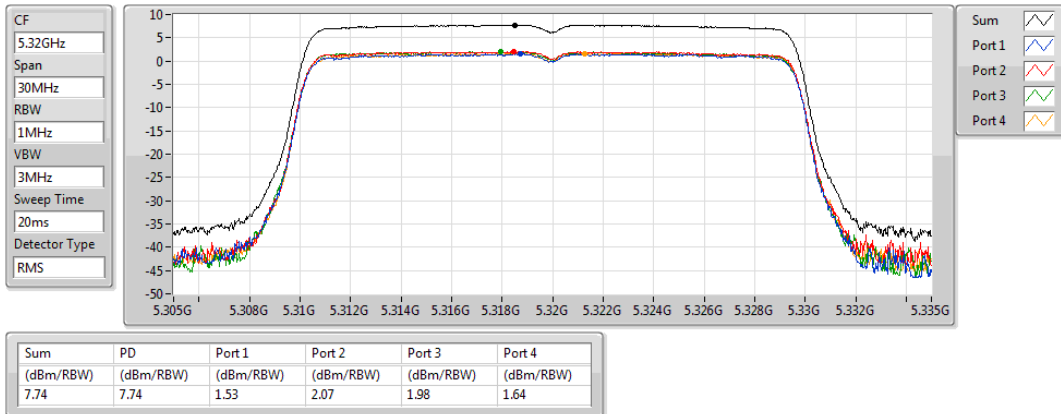


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5320MHz

11/04/2019

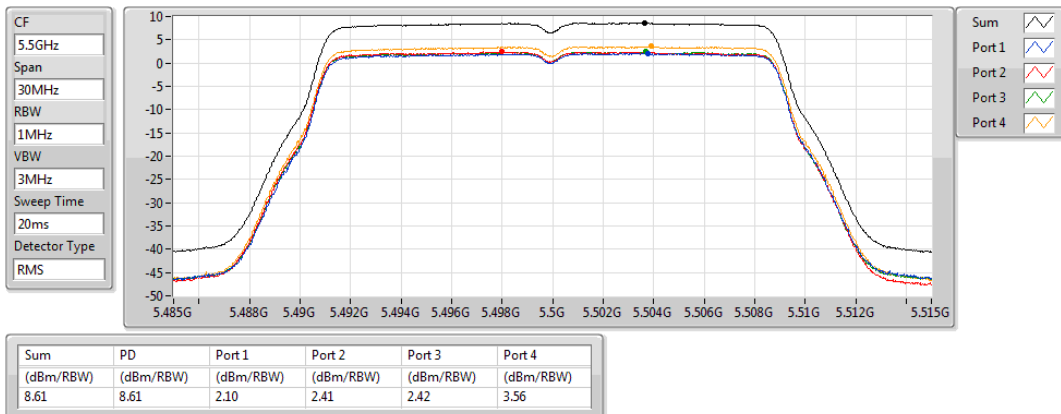


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5500MHz

11/04/2019

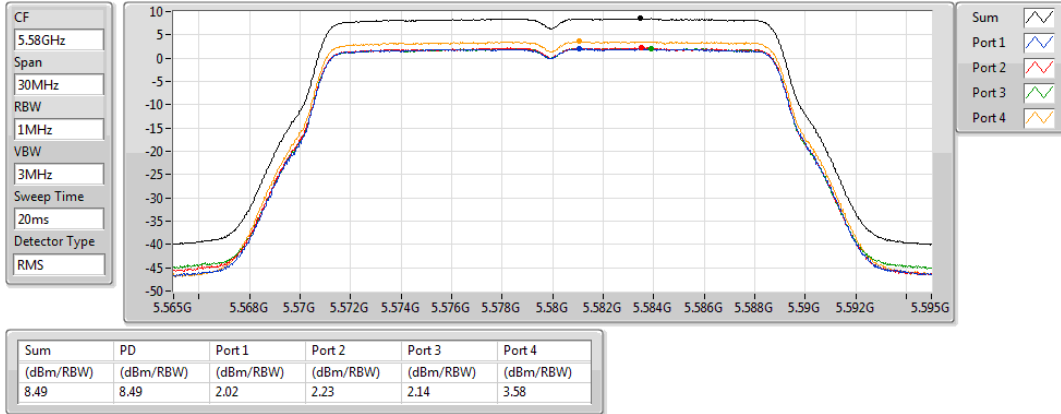


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5580MHz

11/04/2019

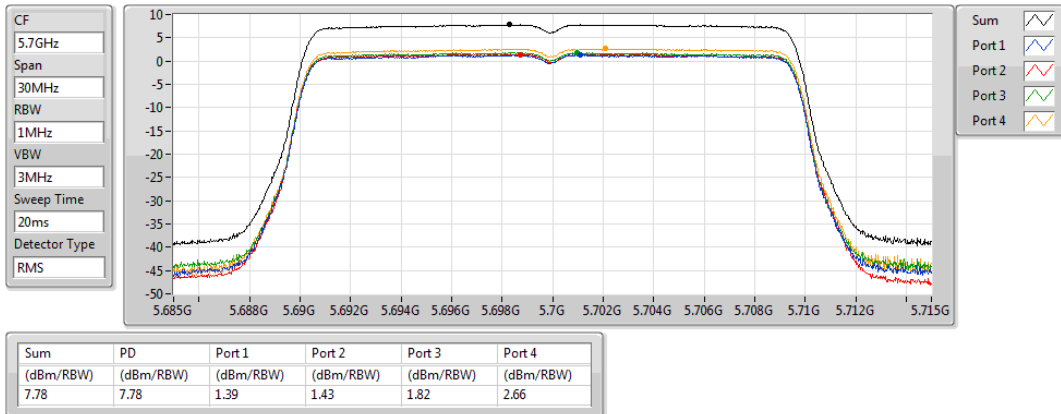


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5700MHz

11/04/2019

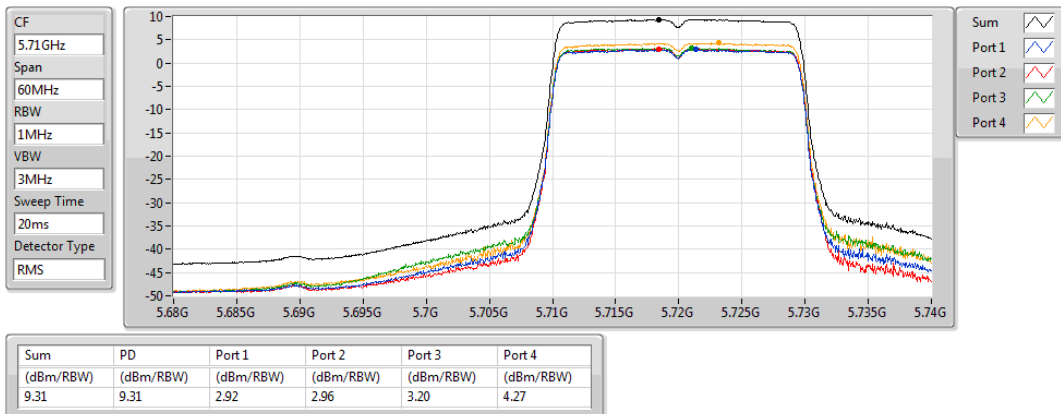


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

11/04/2019

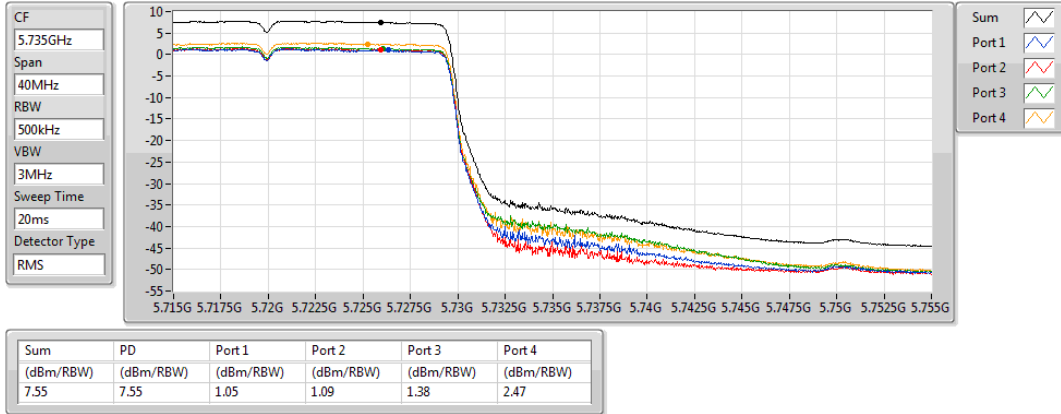


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

11/04/2019

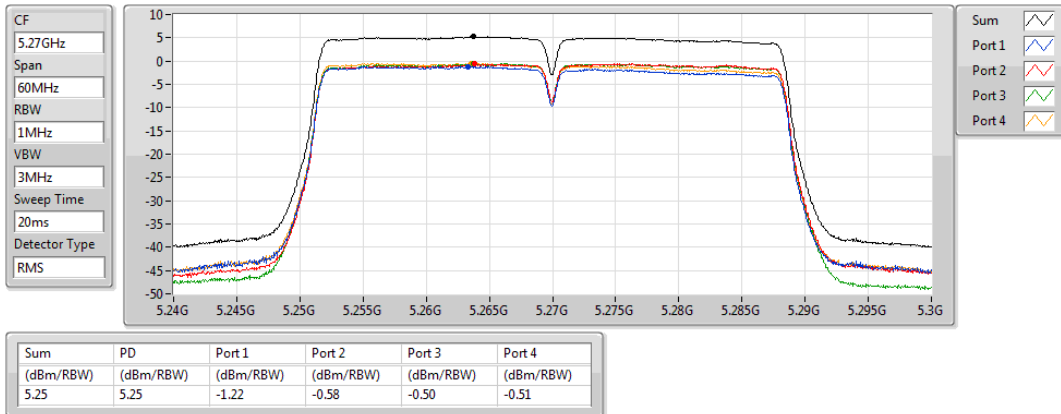


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5270MHz

11/04/2019

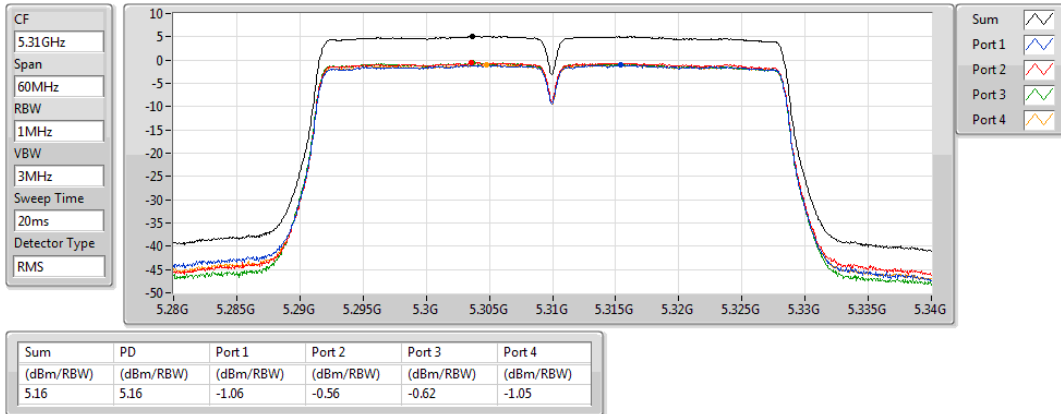


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

11/04/2019

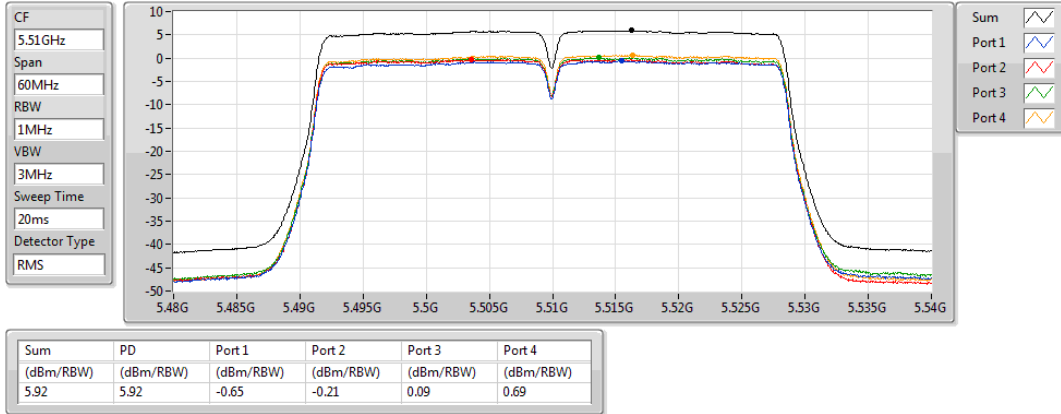


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

11/04/2019

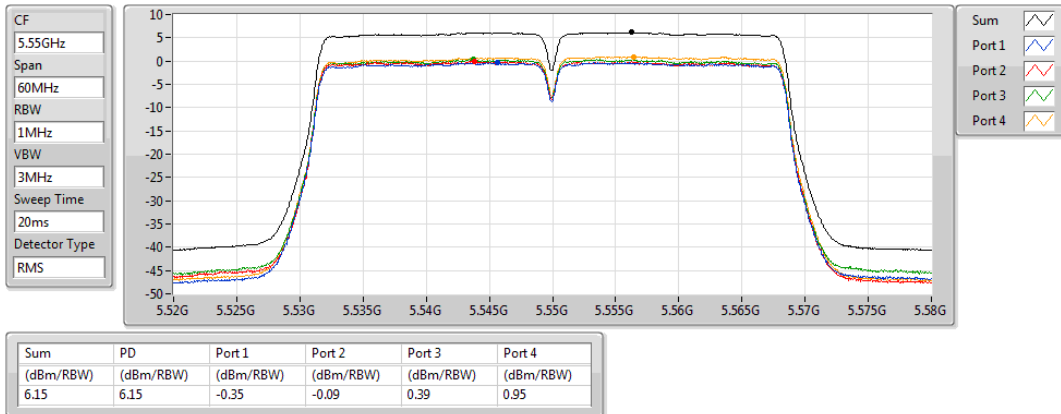


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

11/04/2019

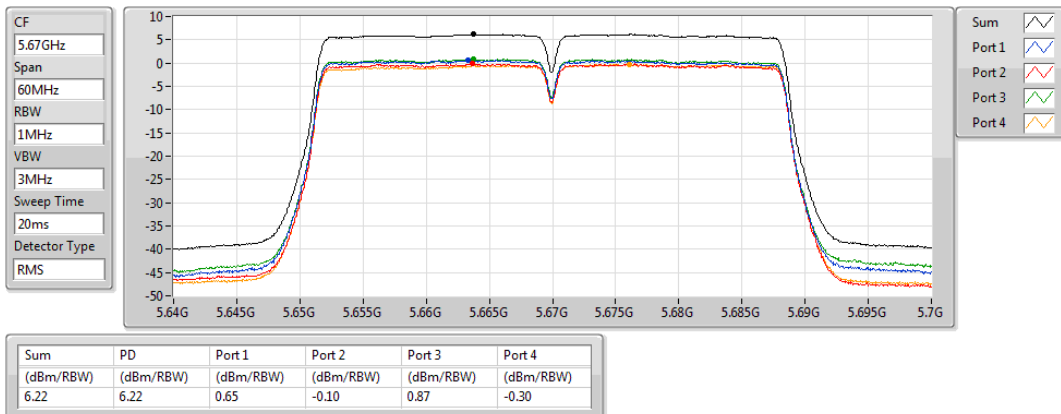


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

11/04/2019

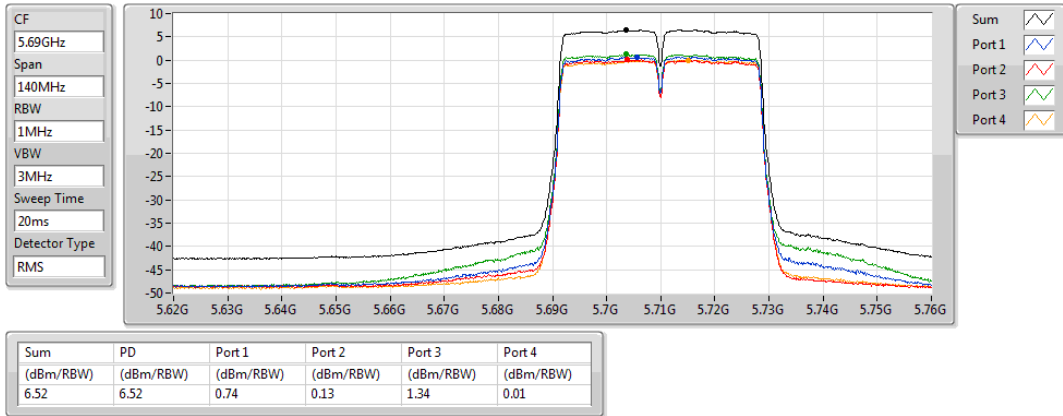


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz

PSD

11/04/2019

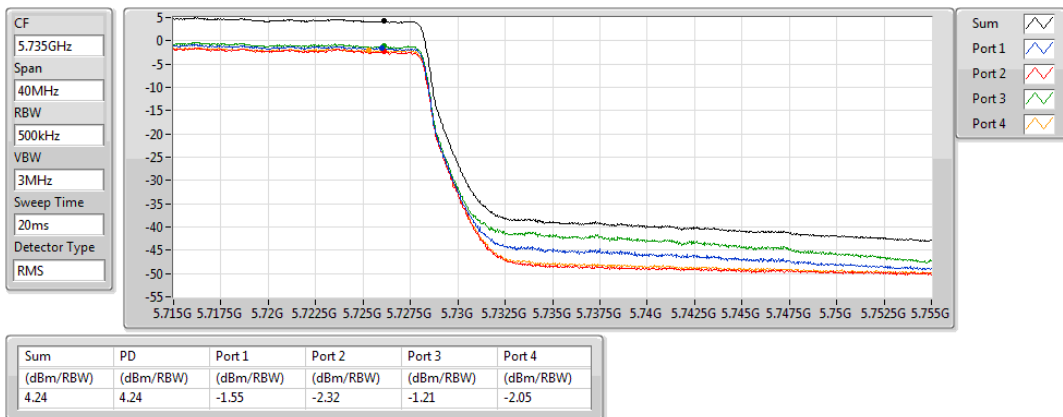


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

11/04/2019

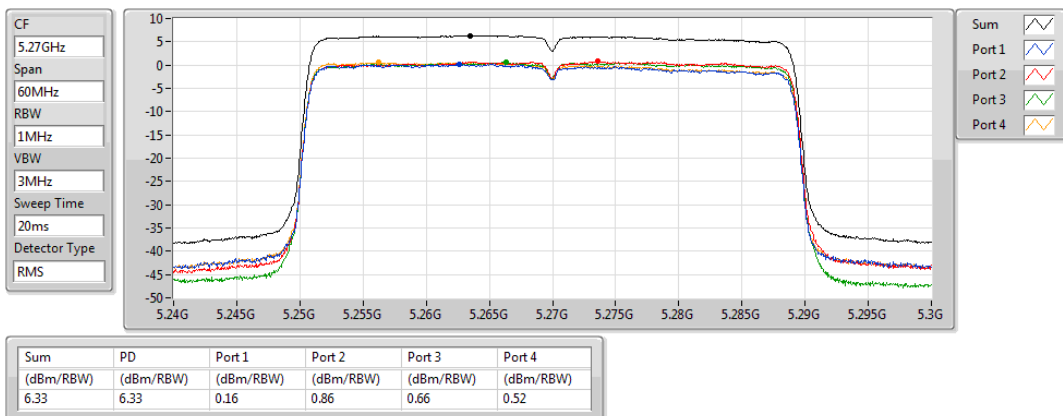


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5270MHz

PSD

11/04/2019

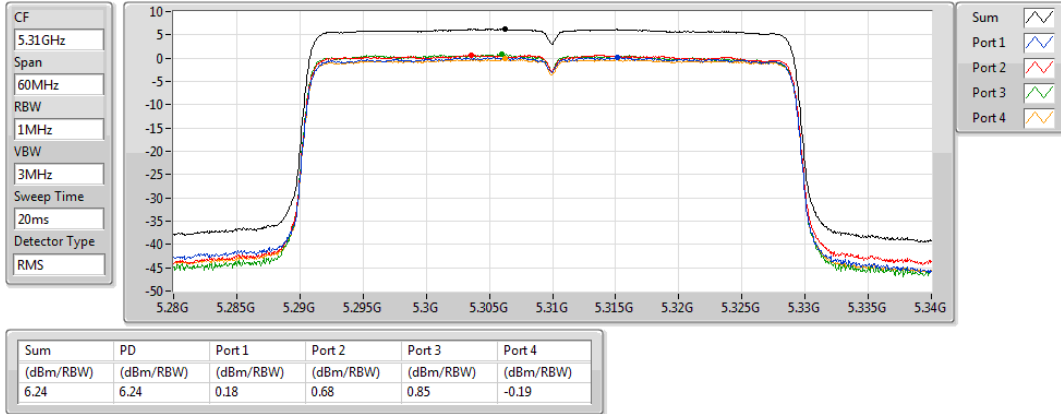


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

11/04/2019

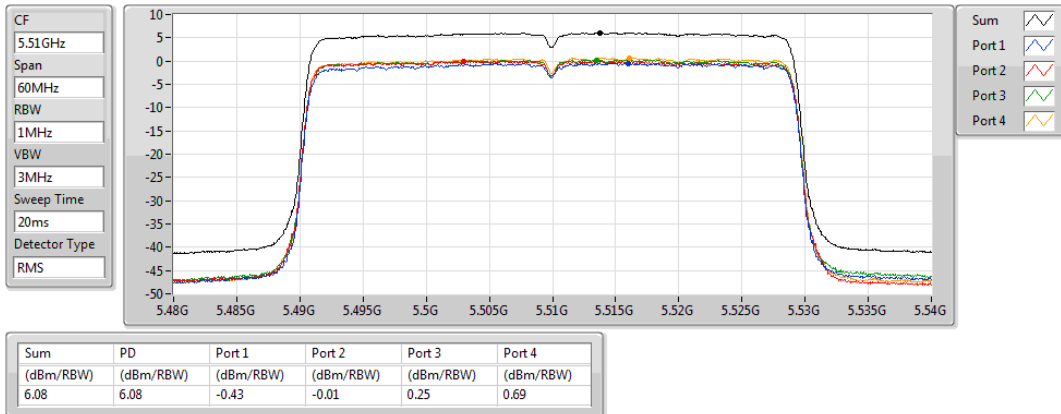


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

10/04/2019

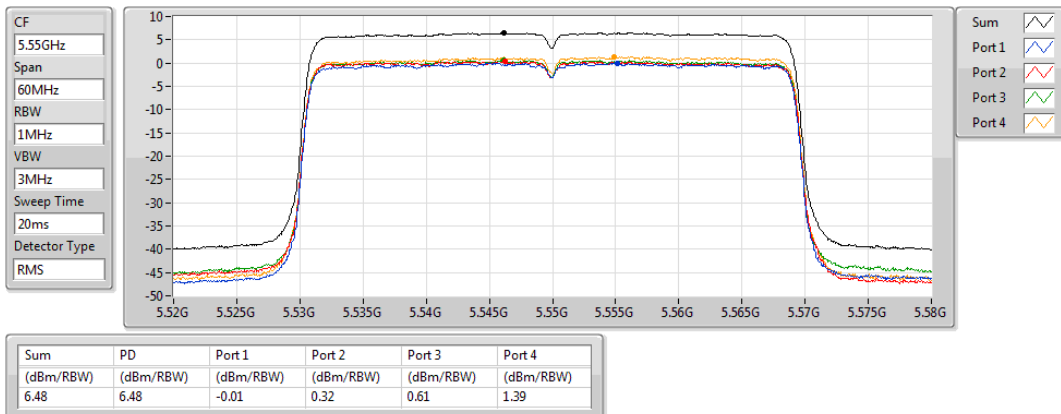


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

10/04/2019

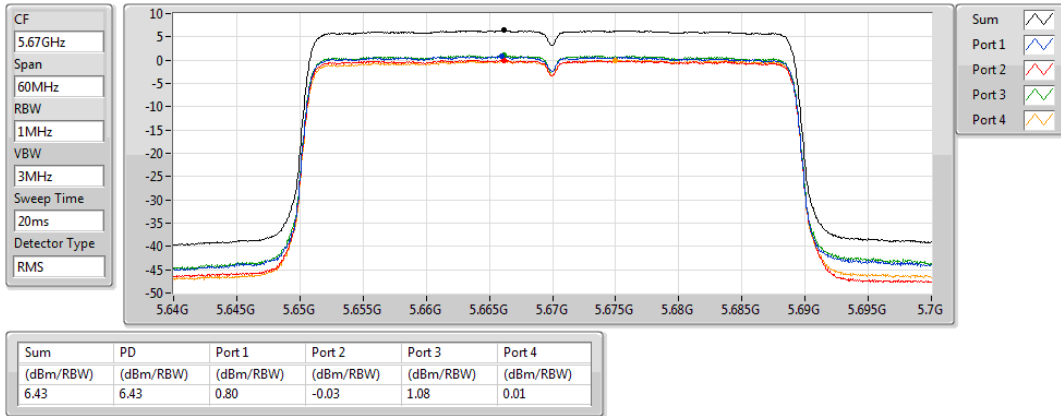


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

10/04/2019

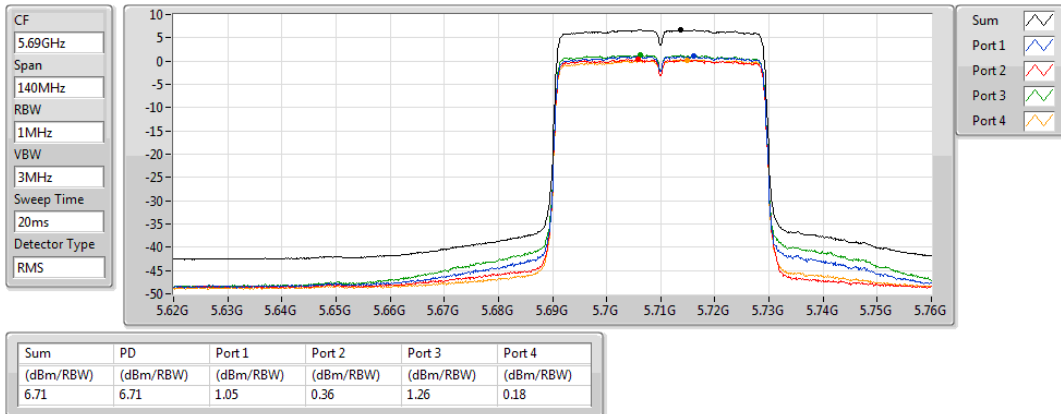


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

10/04/2019

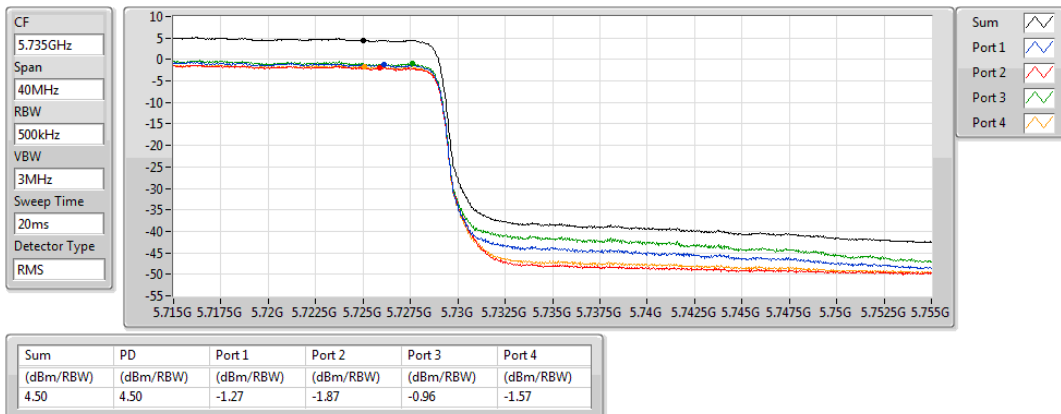


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

10/04/2019

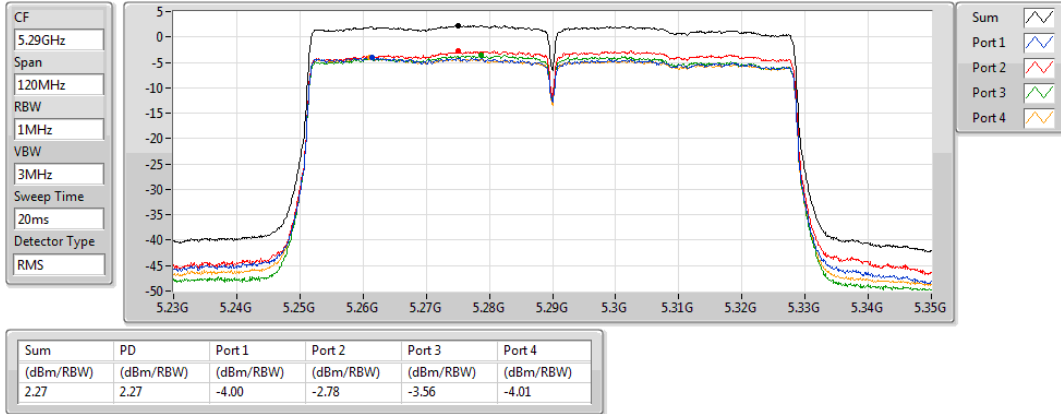


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

11/04/2019

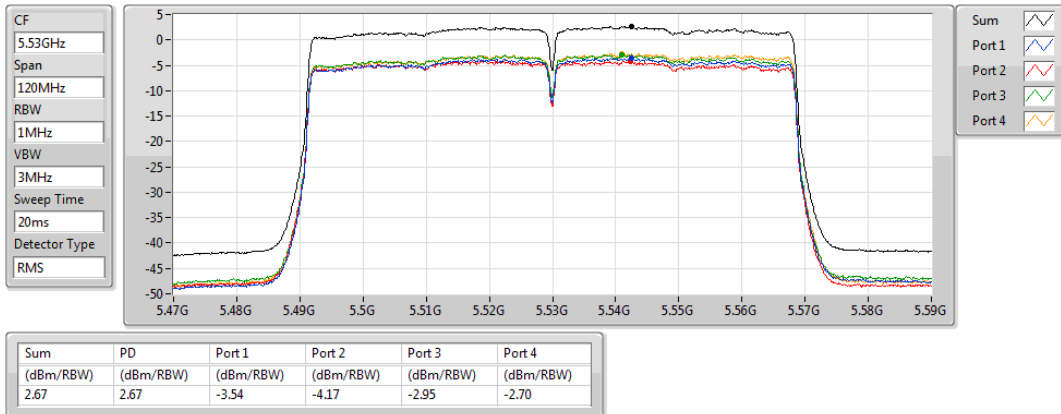


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

11/04/2019

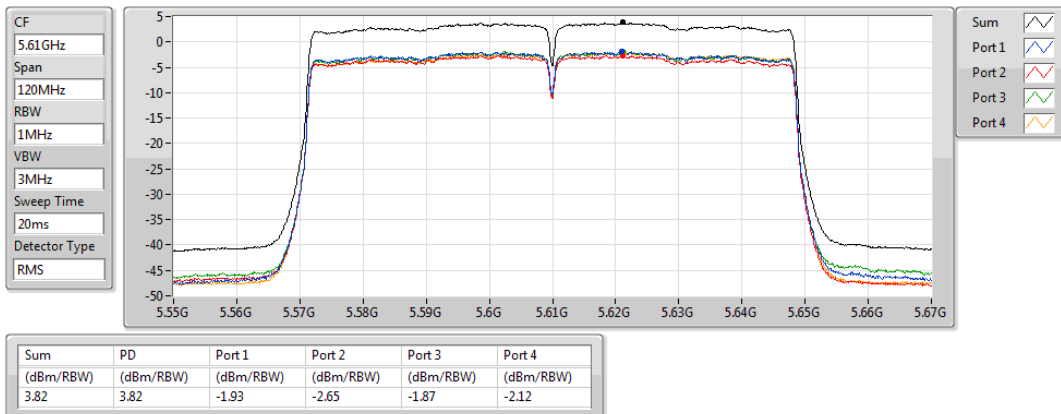


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

11/04/2019

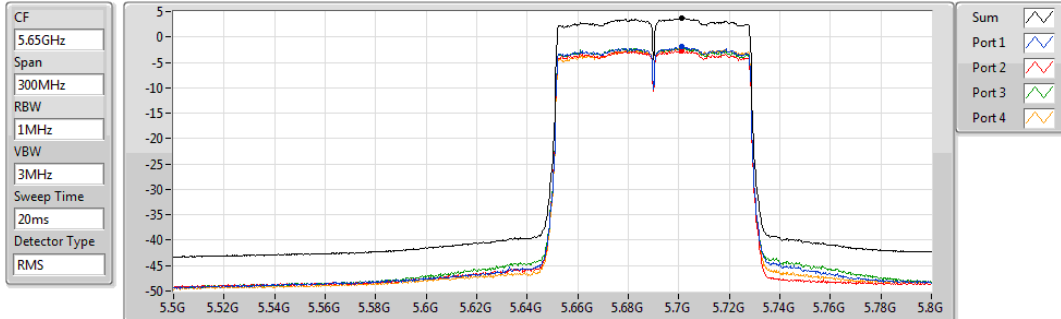


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

11/04/2019



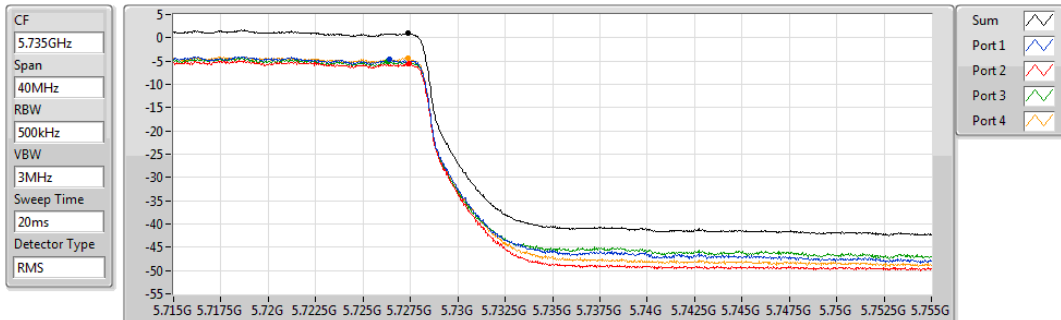
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.76	3.76	-1.84	-2.80	-2.12	-2.13

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

11/04/2019



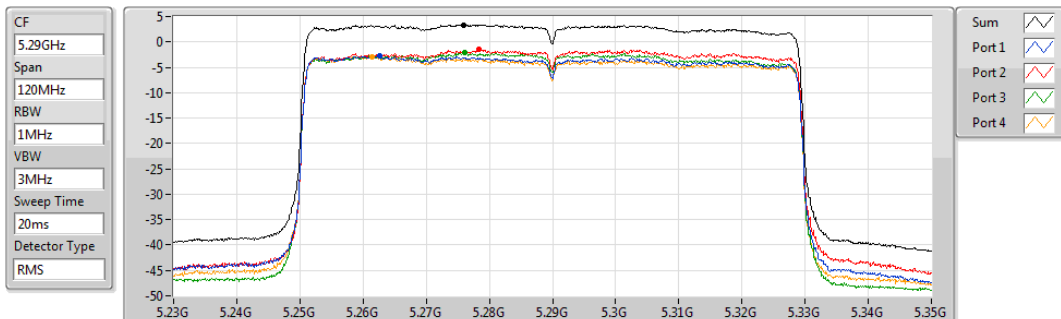
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.02	1.02	-4.72	-5.58	-5.18	-4.37

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

11/04/2019



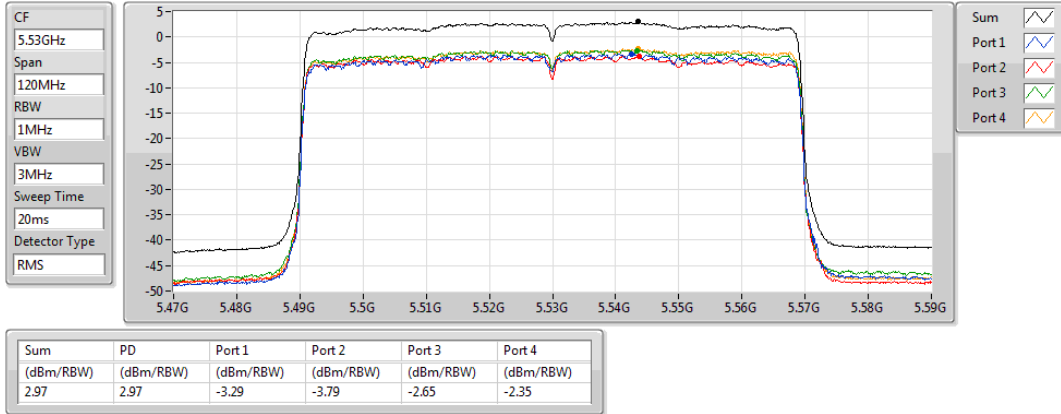
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.38	3.38	-2.84	-1.52	-2.17	-2.86

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

11/04/2019

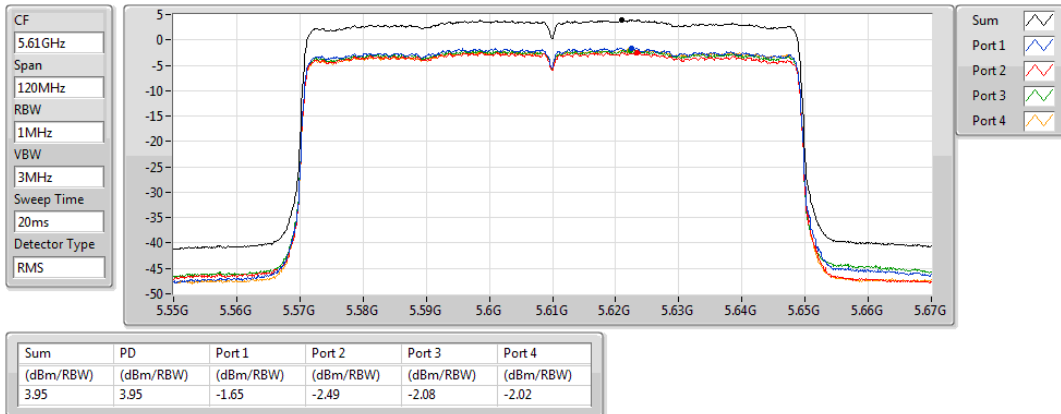


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

11/04/2019

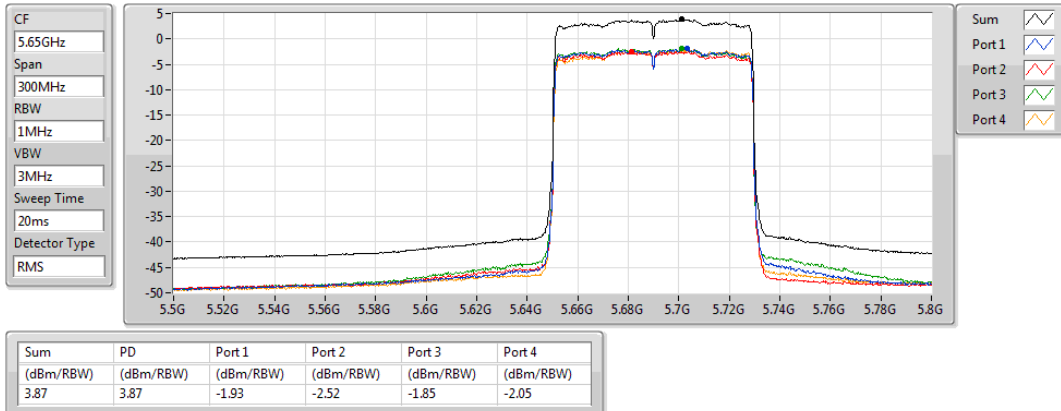


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

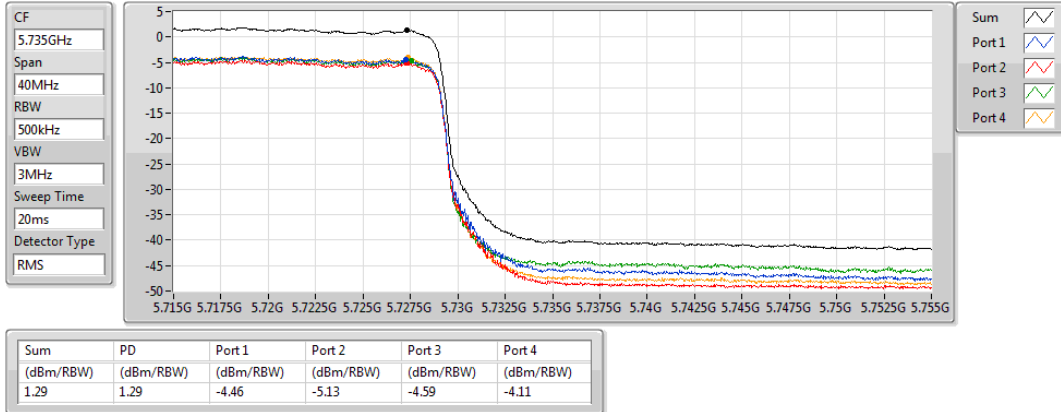
5690MHz Straddle 5.47-5.725GHz

11/04/2019

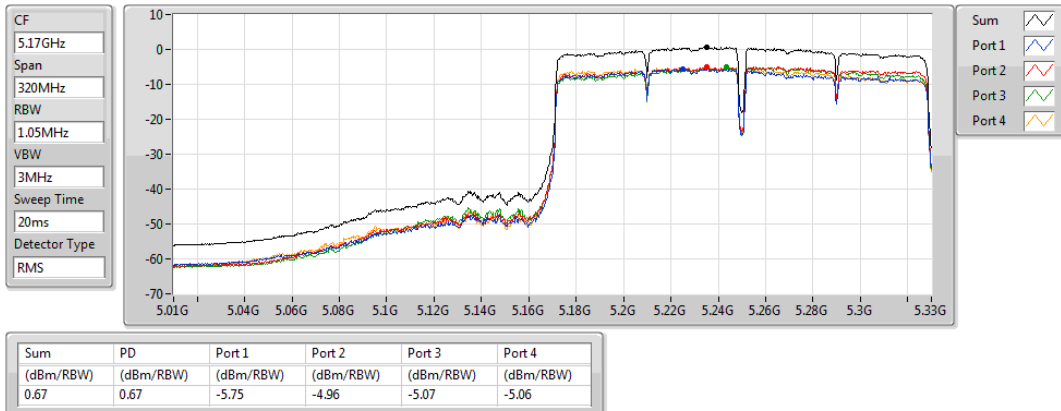


802.11ax HEW80-BF_Nss1,(MCS0)_4TX**PSD****5690MHz Straddle 5.725-5.85GHz**

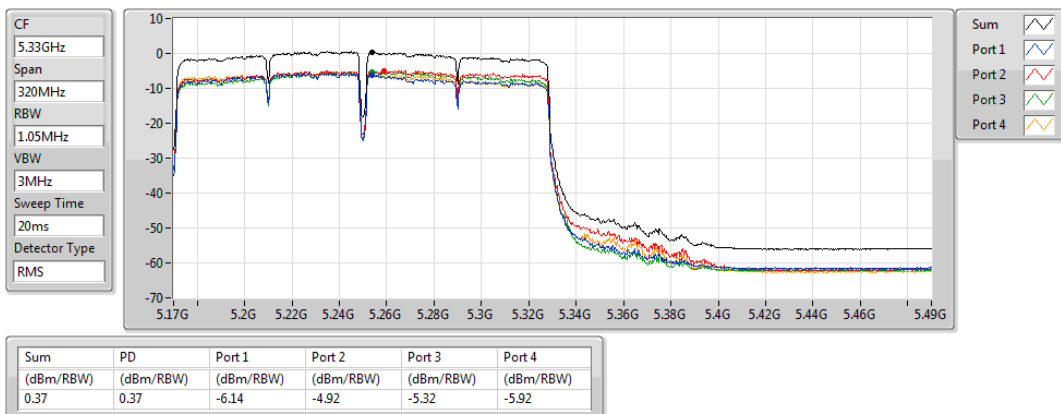
11/04/2019

**802.11ac VHT160-BF_Nss1,(MCS0)_4TX****PSD****5250MHz Straddle 5.15-5.25GHz**

15/07/2019

**802.11ac VHT160-BF_Nss1,(MCS0)_4TX****PSD****5250MHz Straddle 5.25-5.35GHz**

15/07/2019

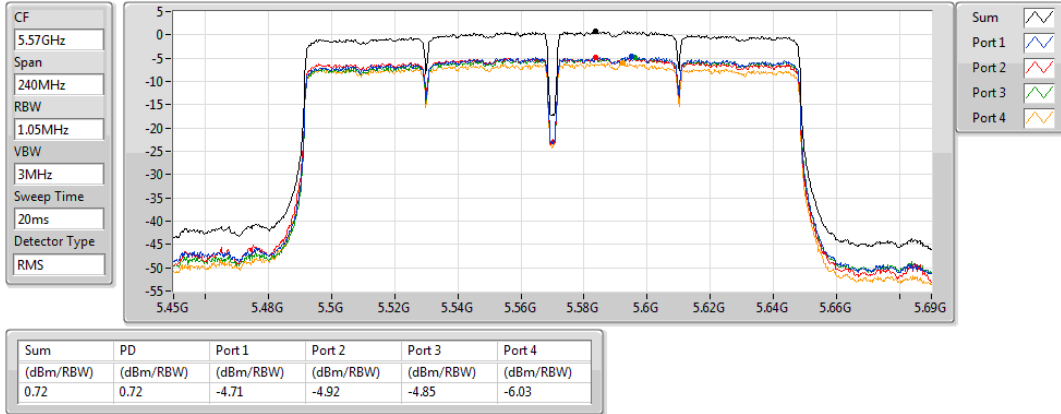


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

PSD

5570MHz

15/07/2019

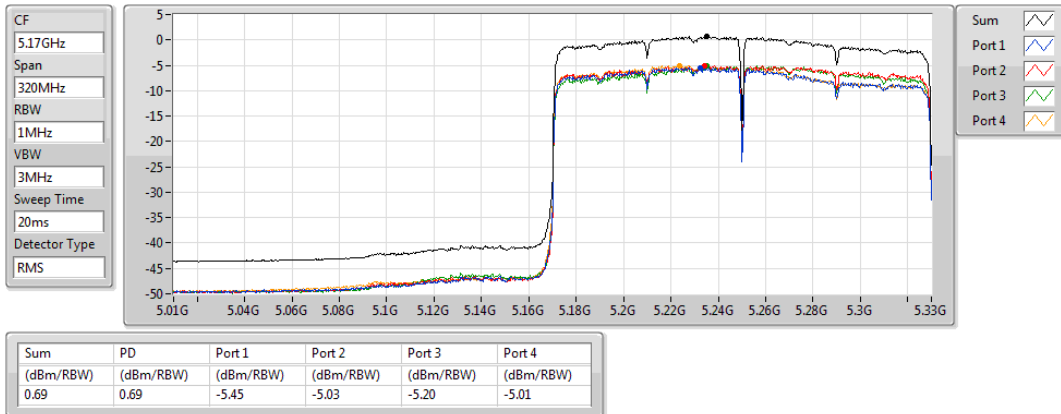


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

11/04/2019

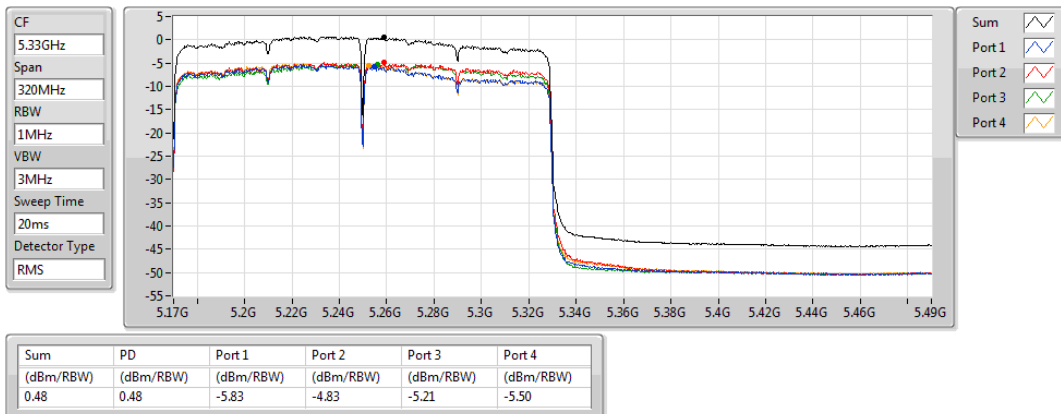


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

11/04/2019

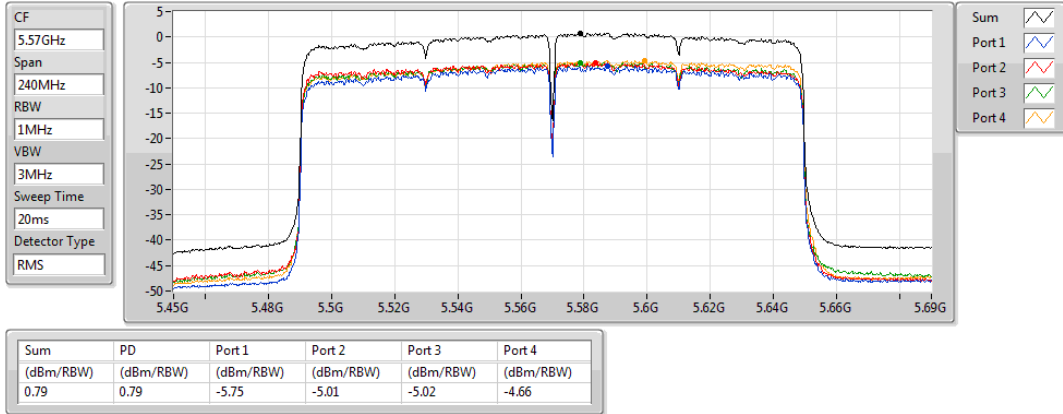


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5570MHz

11/04/2019





RSE TX above 1GHz Result

Appendix D

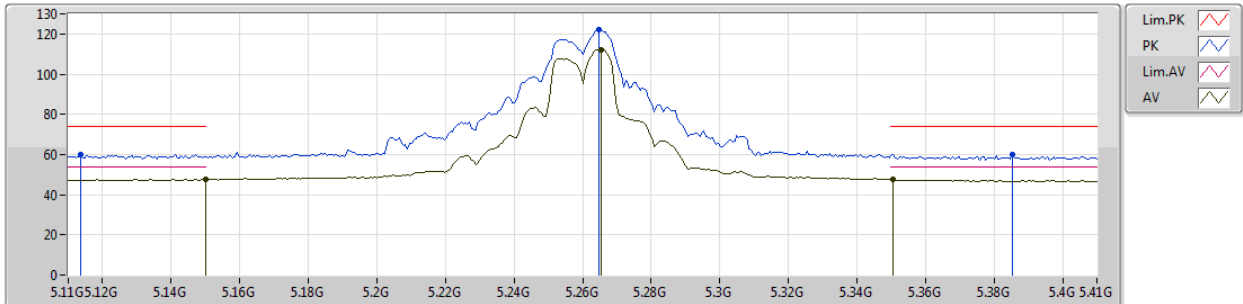
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	PK	5.4688G	68.17	68.20	-0.03	8.56	3	Vertical	43	1.82	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5260MHz_TX



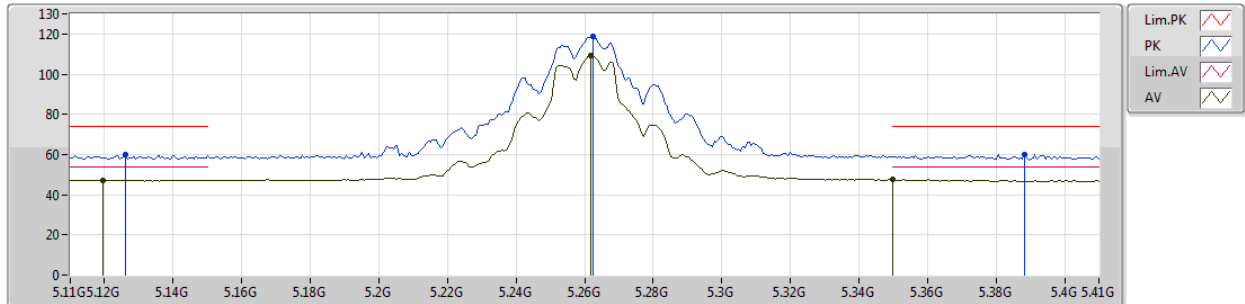
EUT Y_4TX
Setting 91
02-N-2-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1136G	59.94	74.00	-14.06	7.96	3	Vertical	150	1.53	-
AV	5.15G	47.59	54.00	-6.41	8.04	3	Vertical	150	1.53	-
PK	5.2648G	121.92	Inf	-Inf	8.26	3	Vertical	150	1.53	-
AV	5.2654G	112.17	Inf	-Inf	8.26	3	Vertical	150	1.53	-
PK	5.3854G	59.95	74.00	-14.05	8.42	3	Vertical	150	1.53	-
AV	5.3506G	47.53	54.00	-6.47	8.38	3	Vertical	150	1.53	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5260MHz_TX



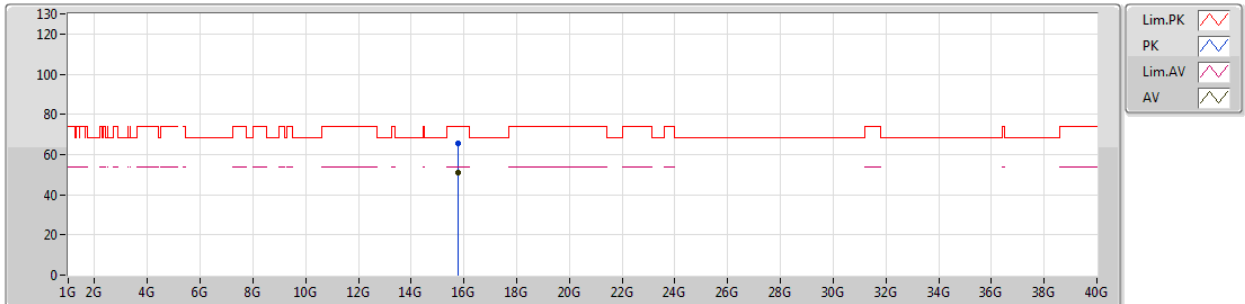
EUT Y_4TX
Setting 91
02-N-2-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1262G	60.04	74.00	-13.96	8.00	3	Horizontal	305	2.97	-
AV	5.1196G	47.27	54.00	-6.73	7.98	3	Horizontal	305	2.97	-
PK	5.2624G	118.60	Inf	-Inf	8.25	3	Horizontal	305	2.97	-
AV	5.2618G	109.28	Inf	-Inf	8.25	3	Horizontal	305	2.97	-
PK	5.3884G	60.23	74.00	-13.77	8.43	3	Horizontal	305	2.97	-
AV	5.35G	47.37	54.00	-6.63	8.38	3	Horizontal	305	2.97	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5260MHz_TX



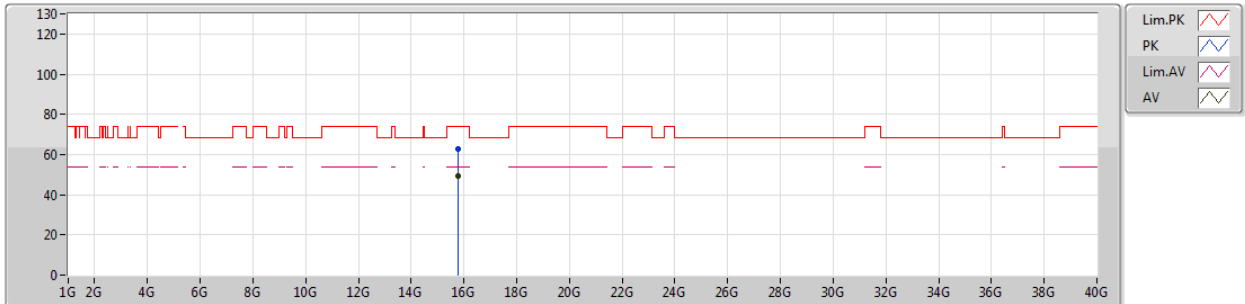
EUT Y_4TX
Setting 91
02-N-2
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
AV	15.779G	50.83	54.00	-3.17	15.52	3	Vertical	211	1.78	-						
PK	15.7797G	65.29	74.00	-8.71	15.52	3	Vertical	211	1.78	-						

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5260MHz_TX



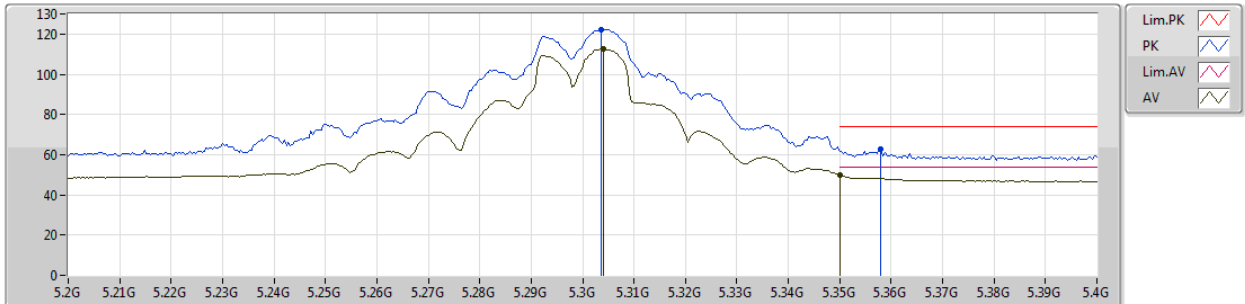
EUT Y_4TX
Setting 91
02-N-2
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	15.7777G	62.63	74.00	-11.37	15.52	3	Horizontal	289	1.74	-						
AV	15.778G	49.19	54.00	-4.81	15.52	3	Horizontal	289	1.74	-						

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5300MHz_TX



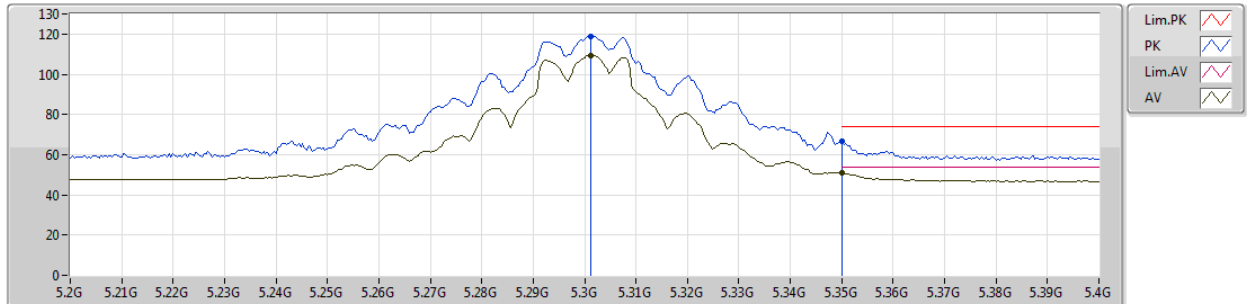
EUT_Y_4TX
Setting 96
02-N-2-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3036G	122.21	Inf	-Inf	8.31	3	Vertical	136	1.43	-
AV	5.304G	112.86	Inf	-Inf	8.31	3	Vertical	136	1.43	-
PK	5.358G	62.97	74.00	-11.03	8.38	3	Vertical	136	1.43	-
AV	5.35G	49.81	54.00	-4.19	8.38	3	Vertical	136	1.43	-

802.11a_Nss1.(6Mbps)_4TX

10/04/2019

5300MHz_TX



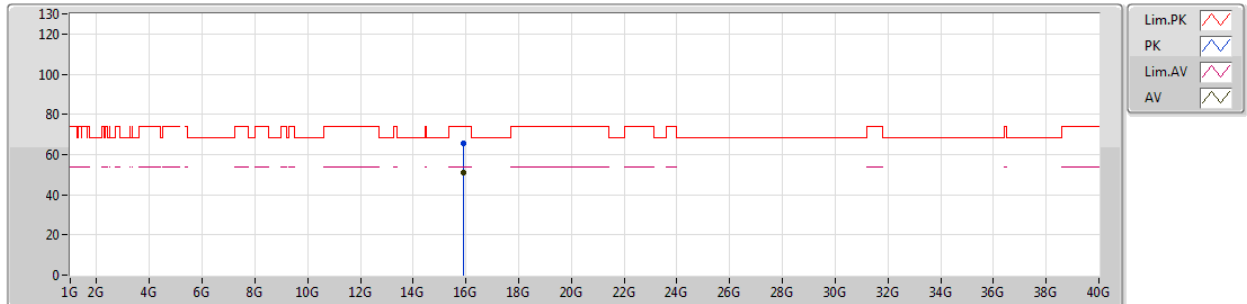
EUT_Y_4TX
Setting 96
02-N-2-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3012G	118.96	Inf	-Inf	8.31	3	Horizontal	304	2.92	-
AV	5.3012G	109.53	Inf	-Inf	8.31	3	Horizontal	304	2.92	-
PK	5.35G	66.57	74.00	-7.43	8.38	3	Horizontal	304	2.92	-
AV	5.35G	50.91	54.00	-3.09	8.38	3	Horizontal	304	2.92	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5300MHz_TX



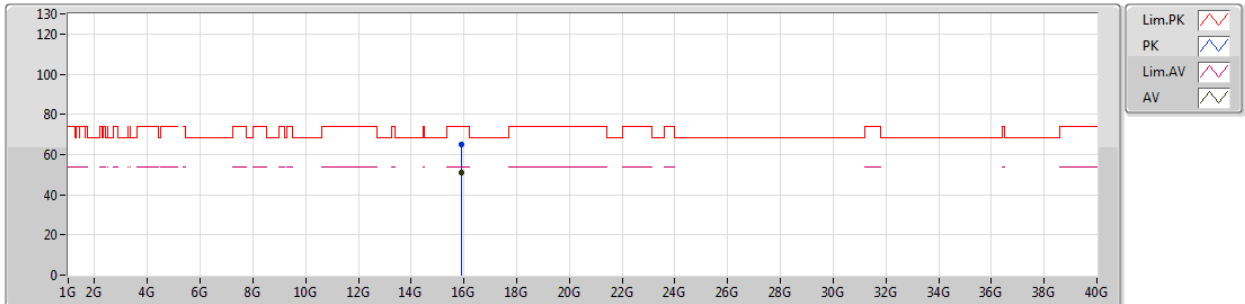
EUT Y_4TX
Setting 96
02-N-2
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	15.8944G	65.69	74.00	-8.31	15.24	3	Vertical	235	1.52	-						
AV	15.8939G	50.82	54.00	-3.18	15.23	3	Vertical	235	1.52	-						

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5300MHz_TX



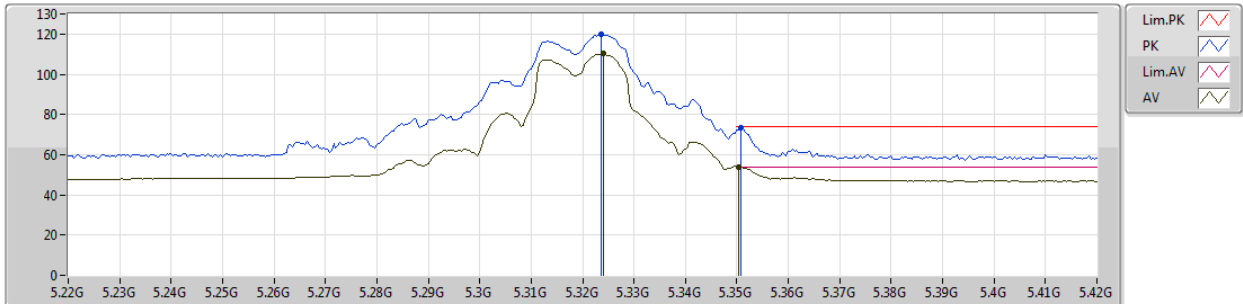
EUT Y_4TX
Setting 96
02-N-2
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	15.899G	65.17	74.00	-8.83	15.22	3	Horizontal	291	1.46	-						
AV	15.8982G	50.99	54.00	-3.01	15.23	3	Horizontal	291	1.46	-						

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5320MHz_TX



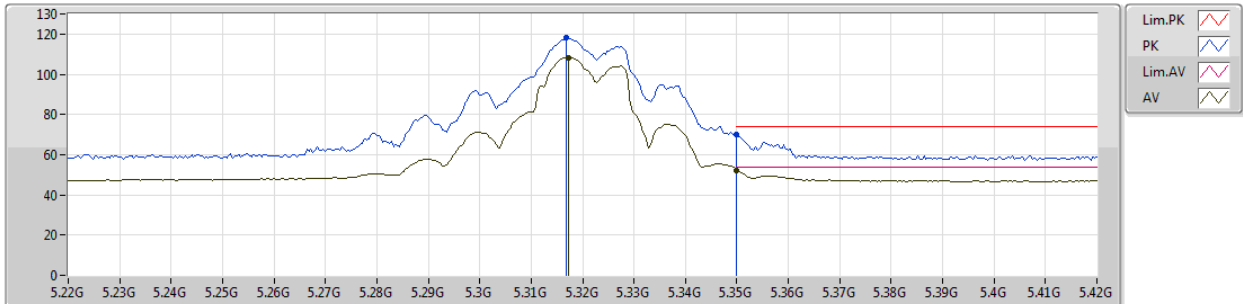
EUT_Y_4TX
Setting 87
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3236G	119.78	Inf	-Inf	8.34	3	Vertical	144	2.12	-
AV	5.324G	110.21	Inf	-Inf	8.34	3	Vertical	144	2.12	-
PK	5.3508G	73.48	74.00	-0.52	8.38	3	Vertical	144	2.12	-
AV	5.3504G	53.92	54.00	-0.08	8.38	3	Vertical	144	2.12	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5320MHz_TX



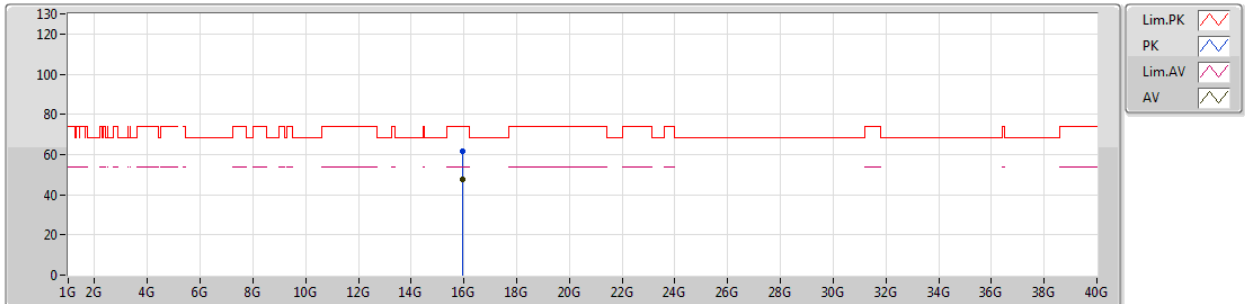
EUT_Y_4TX
Setting 87
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3168G	118.02	Inf	-Inf	8.33	3	Horizontal	223	2.78	-
AV	5.3172G	108.18	Inf	-Inf	8.33	3	Horizontal	223	2.78	-
PK	5.35G	70.16	74.00	-3.84	8.38	3	Horizontal	223	2.78	-
AV	5.35G	52.38	54.00	-1.62	8.38	3	Horizontal	223	2.78	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5320MHz_TX



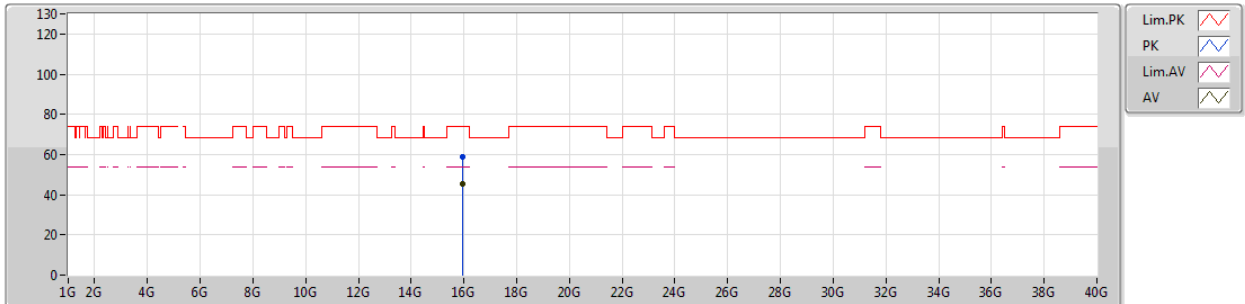
EUT_Y_4TX
Setting 87
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	15.9591G	61.60	74.00	-12.40	15.06	3	Vertical	211	1.74	-						
AV	15.9586G	47.41	54.00	-6.59	15.07	3	Vertical	211	1.74	-						

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5320MHz_TX



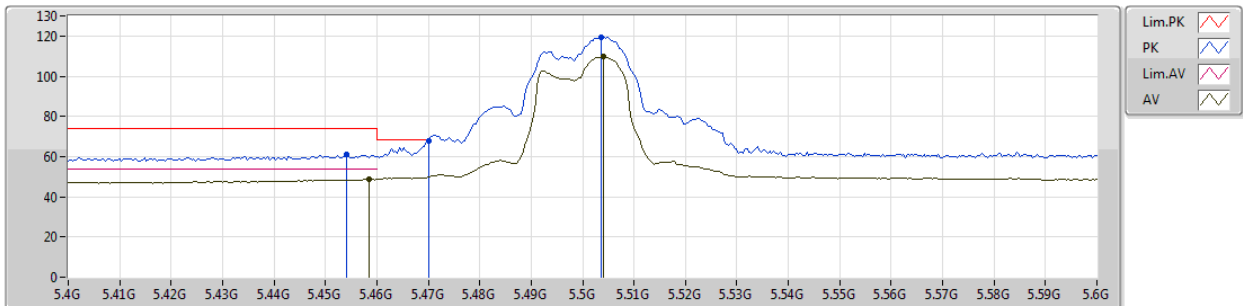
EUT_Y_4TX
Setting 87
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	15.96156G	58.57	74.00	-15.43	15.06	3	Horizontal	286	1.49	-						
AV	15.95754G	45.28	54.00	-8.72	15.07	3	Horizontal	286	1.49	-						

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5500MHz_TX



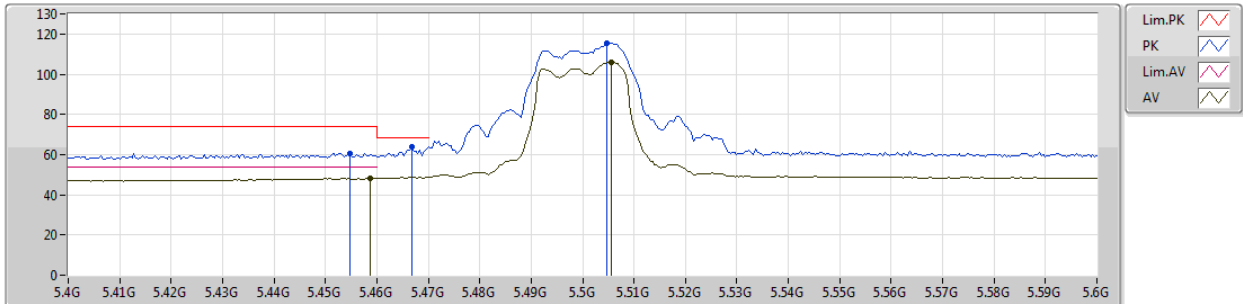
EUT Y_4TX
Setting 77
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
PK	5.454G	60.81	74.00	-13.19	8.54	3	Vertical	28	1.75	-								
AV	5.4584G	48.77	54.00	-5.23	8.55	3	Vertical	28	1.75	-								
PK	5.47G	67.99	68.20	-0.21	8.56	3	Vertical	28	1.75	-								
PK	5.5036G	119.43	Inf	-Inf	8.62	3	Vertical	28	1.75	-								
AV	5.504G	110.10	Inf	-Inf	8.62	3	Vertical	28	1.75	-								

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5500MHz_TX



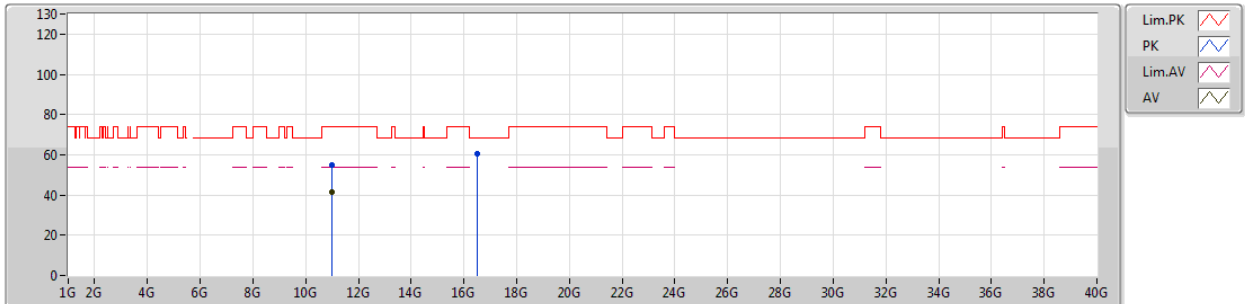
EUT Y_4TX
Setting 77
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4548G	60.68	74.00	-13.32	8.54	3	Horizontal	17	1.56	-
AV	5.4588G	48.09	54.00	-5.91	8.55	3	Horizontal	17	1.56	-
PK	5.4668G	64.10	68.20	-4.10	8.56	3	Horizontal	17	1.56	-
PK	5.5048G	115.70	Inf	-Inf	8.62	3	Horizontal	17	1.56	-
AV	5.5056G	106.09	Inf	-Inf	8.62	3	Horizontal	17	1.56	-

802.11a_Nss1.(6Mbps)_4TX

10/04/2019

5500MHz_TX



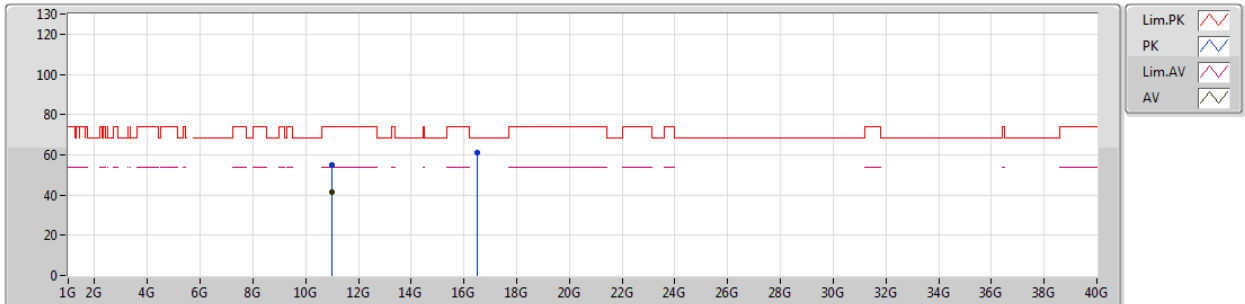
EUT Y_4TX
Setting 77
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	11.00044G	54.98	74.00	-19.02	14.26	3	Vertical	250	1.93	-						
AV	11.0028G	41.25	54.00	-12.75	14.26	3	Vertical	250	1.93	-						
PK	16.4988G	60.34	68.20	-7.86	17.13	3	Vertical	36	2.24	-						

802.11a_Nss1.(6Mbps)_4TX

10/04/2019

5500MHz_TX



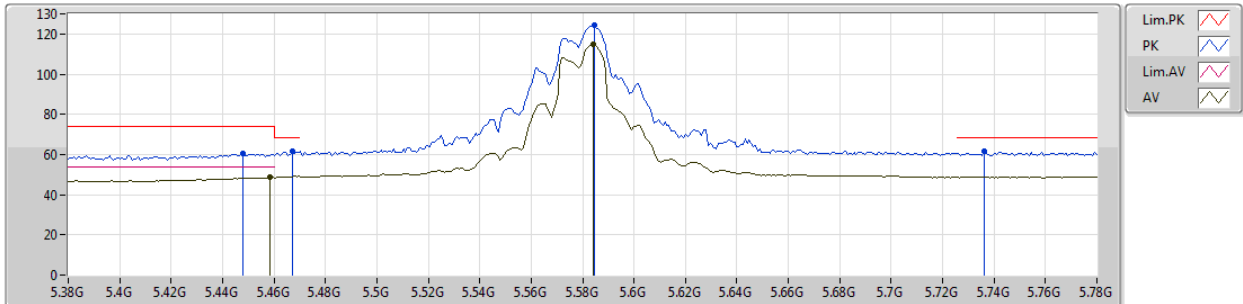
EUT Y_4TX
Setting 77
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.00172G	55.01	74.00	-18.99	14.26	3	Horizontal	129	2.88	-
AV	10.9984G	41.41	54.00	-12.59	14.26	3	Horizontal	129	2.88	-
PK	16.49766G	61.30	68.20	-6.90	17.12	3	Horizontal	298	1.36	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5580MHz_TX



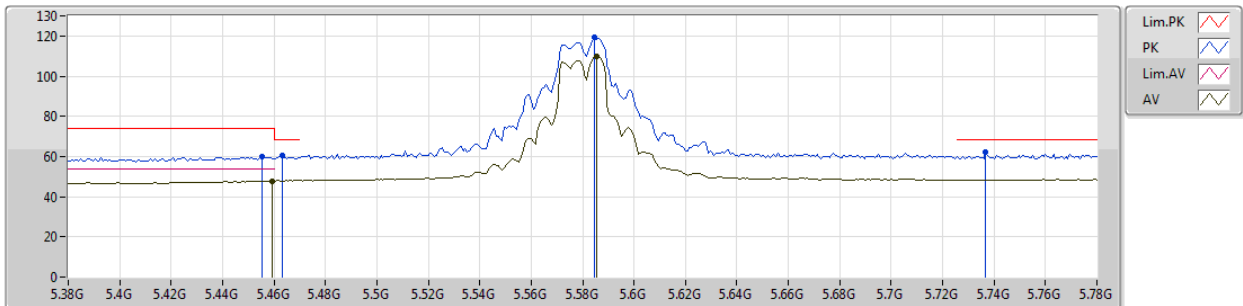
EUT Y_4TX
Setting 96
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.448G	60.39	74.00	-13.61	8.52	3	Vertical	322	1.87	-
AV	5.4584G	48.55	54.00	-5.45	8.55	3	Vertical	322	1.87	-
PK	5.4672G	61.62	68.20	-6.58	8.56	3	Vertical	322	1.87	-
PK	5.5848G	124.21	Inf	-Inf	8.64	3	Vertical	322	1.87	-
AV	5.584G	114.92	Inf	-Inf	8.64	3	Vertical	322	1.87	-
PK	5.736G	61.65	68.20	-6.55	8.82	3	Vertical	322	1.87	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5580MHz_TX



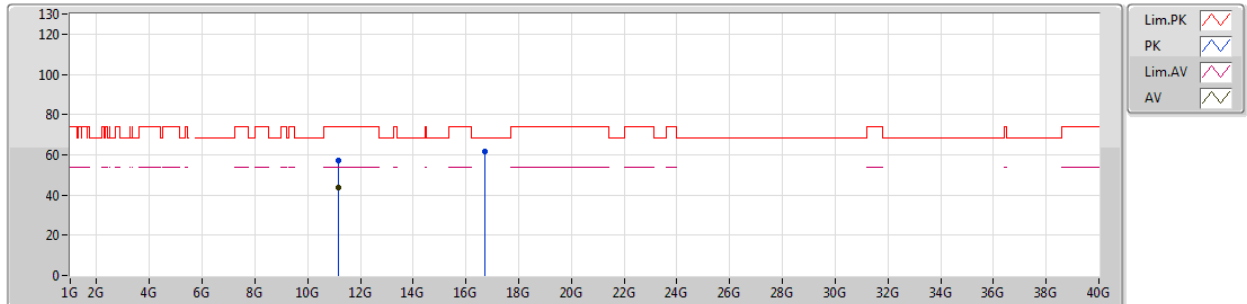
EUT Y_4TX
Setting 96
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4552G	59.72	74.00	-14.28	8.54	3	Horizontal	24	1.45	-
AV	5.4592G	47.82	54.00	-6.18	8.55	3	Horizontal	24	1.45	-
PK	5.4632G	60.56	68.20	-7.64	8.55	3	Horizontal	24	1.45	-
PK	5.5848G	119.47	Inf	-Inf	8.64	3	Horizontal	24	1.45	-
AV	5.5856G	109.67	Inf	-Inf	8.64	3	Horizontal	24	1.45	-
PK	5.7368G	62.06	68.20	-6.14	8.82	3	Horizontal	24	1.45	-

802.11a_Nss1.(6Mbps)_4TX

10/04/2019

5580MHz_TX



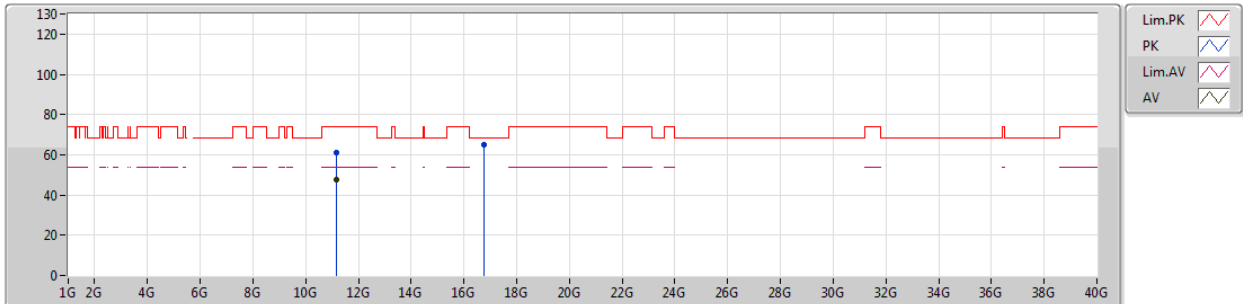
EUT Y_4TX
Setting 96
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	11.1555G	57.09	74.00	-16.91	14.47	3	Vertical	323	1.42	-						
AV	11.1567G	43.57	54.00	-10.43	14.47	3	Vertical	323	1.42	-						
PK	16.7392G	61.42	68.20	-6.78	18.18	3	Vertical	170	1.49	-						

802.11a_Nss1.(6Mbps)_4TX

10/04/2019

5580MHz_TX



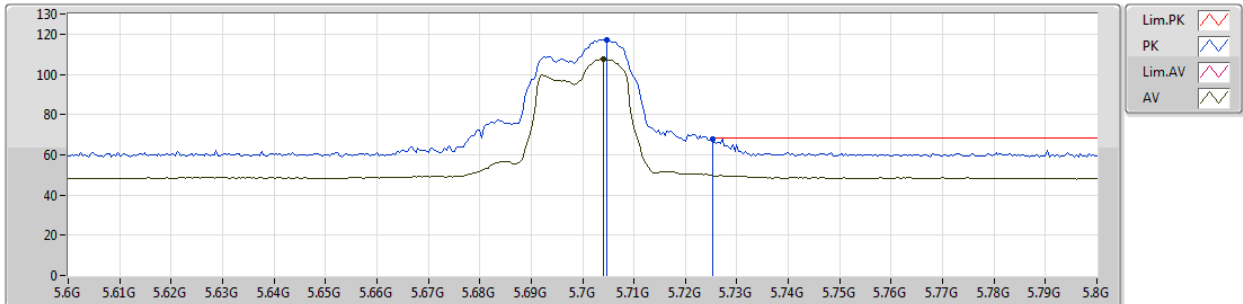
EUT_Y_4TX
Setting 96
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.1552G	61.00	74.00	-13.00	14.47	3	Horizontal	103	2.91	-
AV	11.1559G	47.76	54.00	-6.24	14.47	3	Horizontal	103	2.91	-
PK	16.7464G	65.10	68.20	-3.10	18.21	3	Horizontal	147	3.00	-

802.11a_Nss1.(6Mbps)_4TX

10/04/2019

5700MHz_TX



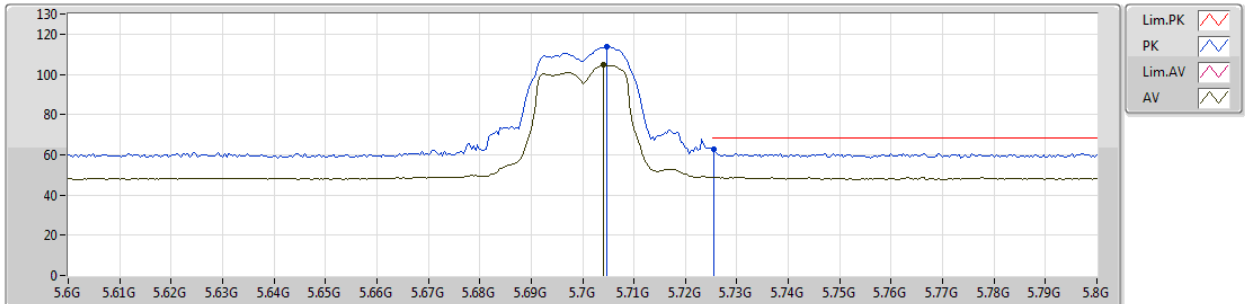
EUT Y_4TX
Setting 69
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.7048G	117.24	Inf	-Inf	8.78	3	Vertical	13	1.50	-
AV	5.704G	107.86	Inf	-Inf	8.78	3	Vertical	13	1.50	-
PK	5.7252G	67.97	68.20	-0.23	8.80	3	Vertical	13	1.50	-

802.11a_Nss1.(6Mbps)_4TX

10/04/2019

5700MHz_TX



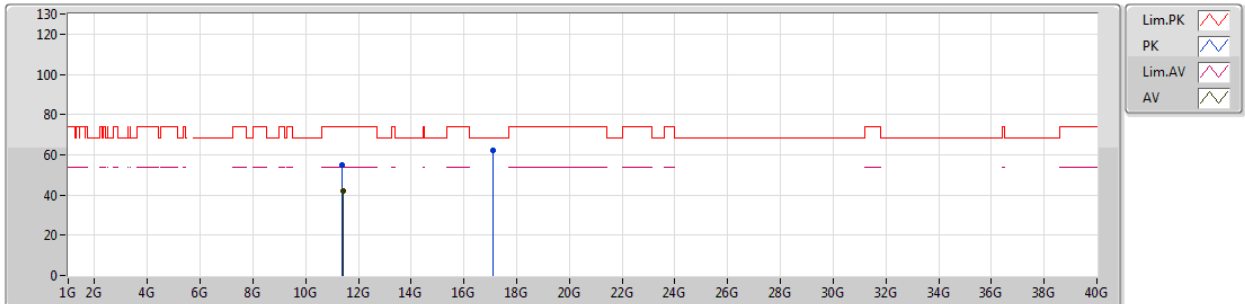
EUT Y_4TX
Setting 69
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	5.7048G	113.81	Inf	-Inf	8.78	3	Horizontal	21	1.32	-						
AV	5.704G	104.63	Inf	-Inf	8.78	3	Horizontal	21	1.32	-						
PK	5.7256G	62.75	68.20	-5.45	8.80	3	Horizontal	21	1.32	-						

802.11a_Nss1.(6Mbps)_4TX

10/04/2019

5700MHz_TX



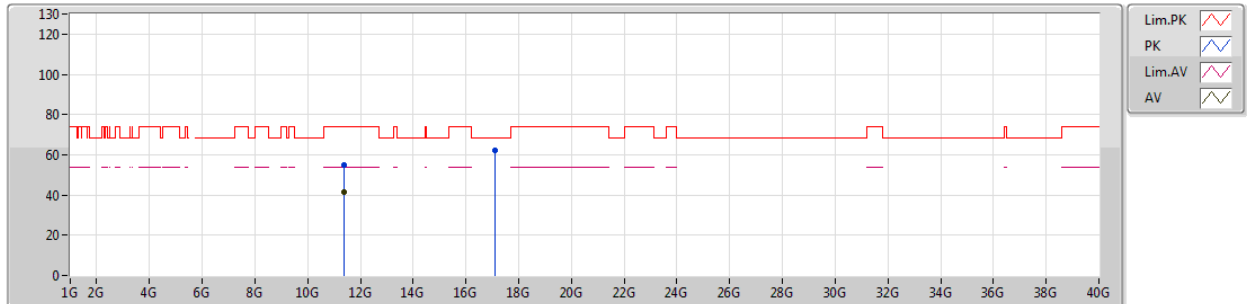
EUT Y_4TX
Setting 69
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.39596G	55.13	74.00	-18.87	14.81	3	Vertical	256	1.01	-
AV	11.40352G	41.83	54.00	-12.17	14.81	3	Vertical	256	1.01	-
PK	17.09546G	62.32	68.20	-5.88	19.89	3	Vertical	60	1.14	-

802.11a_Nss1.(6Mbps)_4TX

10/04/2019

5700MHz_TX



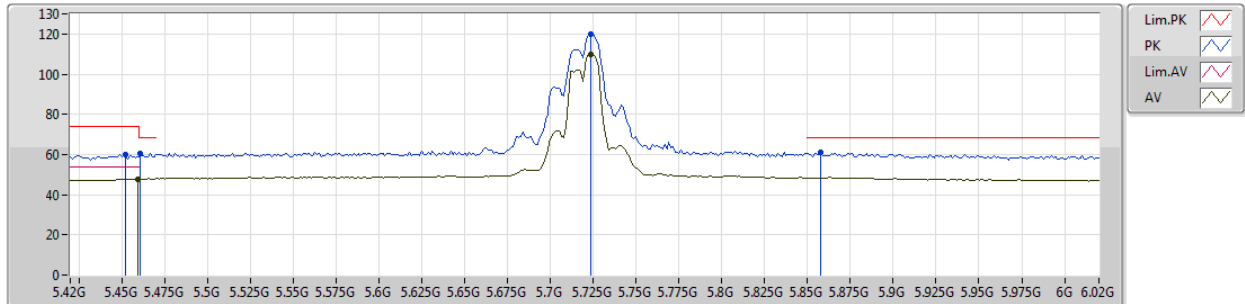
EUT Y_4TX
Setting 69
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.3964G	54.97	74.00	-19.03	14.81	3	Horizontal	207	1.22	-
AV	11.39534G	41.53	54.00	-12.47	14.81	3	Horizontal	207	1.22	-
PK	17.099G	62.07	68.20	-6.13	19.90	3	Horizontal	97	1.59	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5720MHz Straddle 5.47-5.725GHz_TX



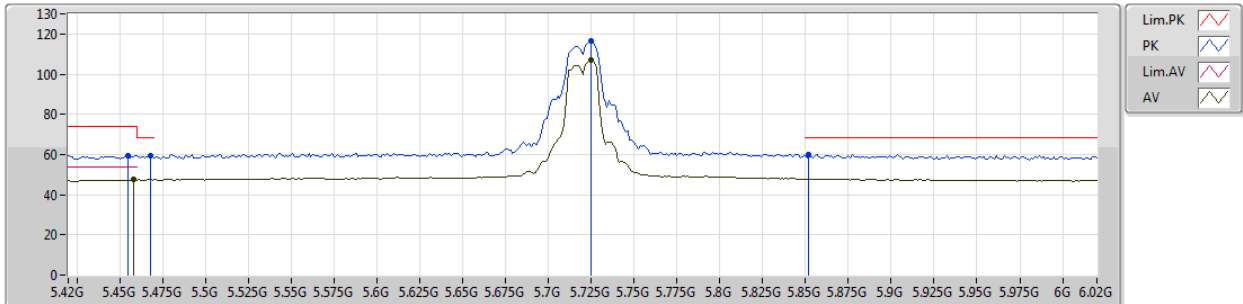
EUT Y_4TX
Setting 85
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4524G	60.23	74.00	-13.77	8.54	3	Vertical	17	1.50	-
AV	5.4596G	47.82	54.00	-6.18	8.55	3	Vertical	17	1.50	-
PK	5.4608G	60.50	68.20	-7.70	8.55	3	Vertical	17	1.50	-
PK	5.7236G	119.80	Inf	-Inf	8.79	3	Vertical	17	1.50	-
AV	5.7236G	109.95	Inf	-Inf	8.79	3	Vertical	17	1.50	-
PK	5.858G	60.92	68.20	-7.28	8.86	3	Vertical	17	1.50	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5720MHz Straddle 5.47-5.725GHz_TX



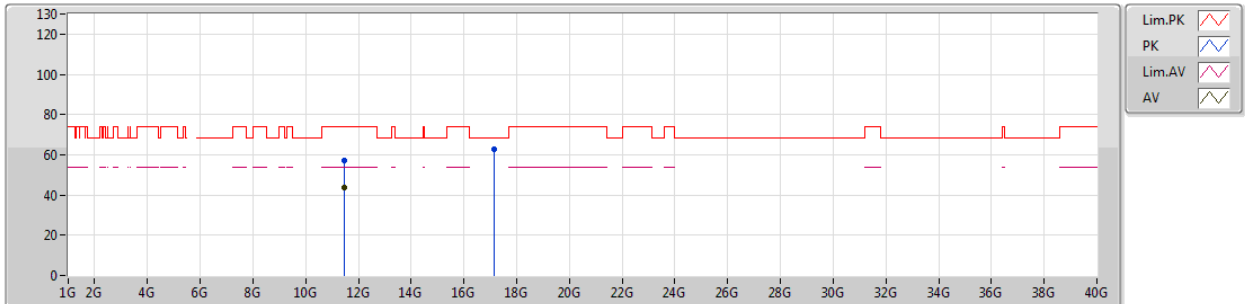
EUT Y_4TX
Setting 85
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.4548G	59.37	74.00	-14.63	8.54	3	Horizontal	2	1.64	-
AV	5.4584G	47.53	54.00	-6.47	8.55	3	Horizontal	2	1.64	-
PK	5.468G	59.56	68.20	-8.64	8.56	3	Horizontal	2	1.64	-
PK	5.7248G	116.68	Inf	-Inf	8.79	3	Horizontal	2	1.64	-
AV	5.7248G	106.88	Inf	-Inf	8.79	3	Horizontal	2	1.64	-
PK	5.852G	60.15	68.20	-8.05	8.86	3	Horizontal	2	1.64	-

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5720MHz Straddle 5.47-5.725GHz_TX



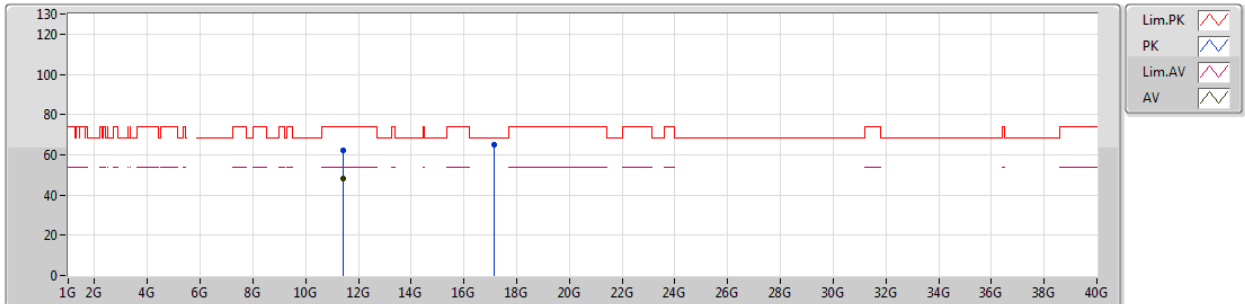
EUT_Y_4TX
Setting 85
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	11.4456G	56.89	74.00	-17.11	14.88	3	Vertical	267	1.47	-						
AV	11.4444G	43.75	54.00	-10.25	14.88	3	Vertical	267	1.47	-						
PK	17.1525G	62.84	68.20	-5.36	20.22	3	Vertical	75	2.75	-						

802.11a_Nss1,(6Mbps)_4TX

10/04/2019

5720MHz Straddle 5.47-5.725GHz_TX



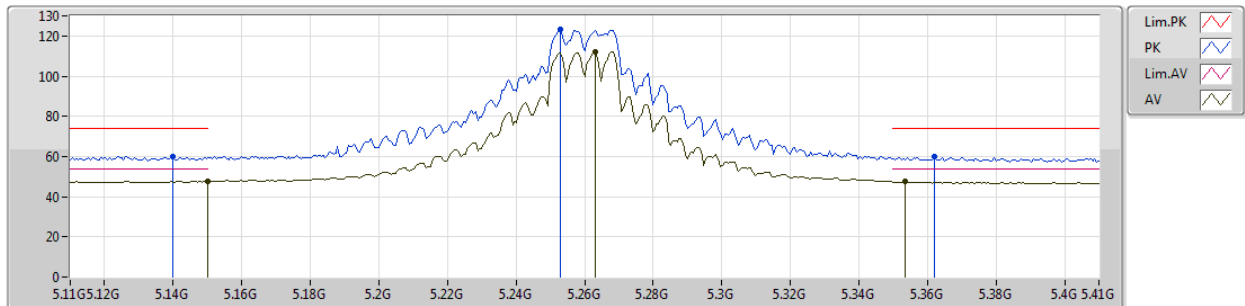
EUT Y_4TX
Setting 85
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.4336G	62.03	74.00	-11.97	14.86	3	Horizontal	116	2.86	-
AV	11.4358G	48.41	54.00	-5.59	14.86	3	Horizontal	116	2.86	-
PK	17.1584G	65.09	68.20	-3.11	20.27	3	Horizontal	142	1.53	-

802.11ax HEW20_Nss1,(MCS0)_4TX

10/04/2019

5260MHz_TX



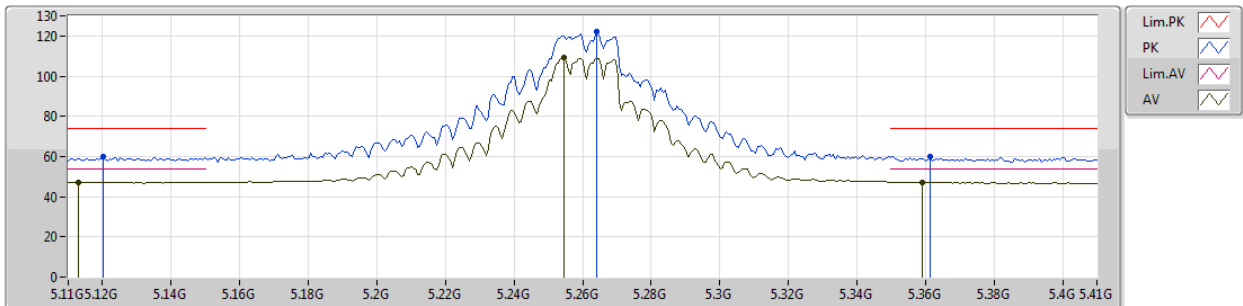
EUT Y_4TX
Setting 95
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.14G	60.14	74.00	-13.86	8.03	3	Vertical	149	1.47	-
AV	5.15G	47.65	54.00	-6.35	8.04	3	Vertical	149	1.47	-
PK	5.2528G	123.26	Inf	-Inf	8.24	3	Vertical	149	1.47	-
AV	5.263G	112.19	Inf	-Inf	8.26	3	Vertical	149	1.47	-
PK	5.362G	59.93	74.00	-14.07	8.39	3	Vertical	149	1.47	-
AV	5.3536G	47.45	54.00	-6.55	8.38	3	Vertical	149	1.47	-

802.11ax HEW20_Nss1,(MCS0)_4TX

10/04/2019

5260MHz_TX



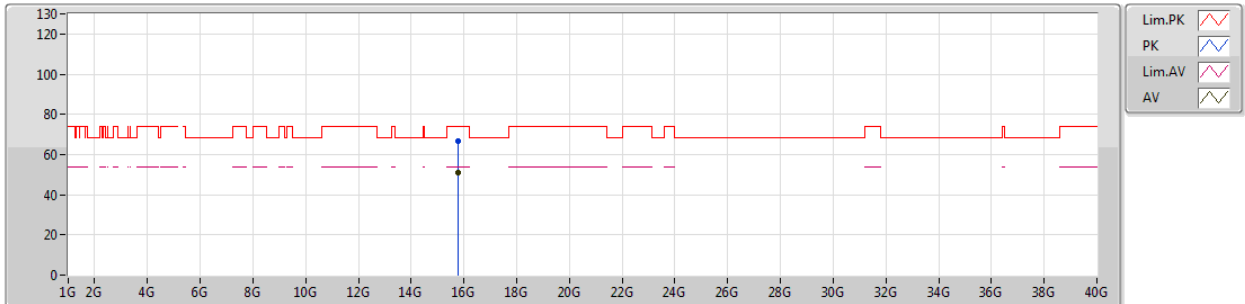
EUT Y_4TX
Setting 95
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1202G	59.68	74.00	-14.32	7.98	3	Horizontal	224	2.96	-
AV	5.113G	47.23	54.00	-6.77	7.96	3	Horizontal	224	2.96	-
PK	5.2642G	122.32	Inf	-Inf	8.26	3	Horizontal	224	2.96	-
AV	5.2546G	109.44	Inf	-Inf	8.25	3	Horizontal	224	2.96	-
PK	5.3614G	59.87	74.00	-14.13	8.39	3	Horizontal	224	2.96	-
AV	5.359G	47.25	54.00	-6.75	8.38	3	Horizontal	224	2.96	-

802.11ax HEW20_Nss1,(MCS0)_4TX

10/04/2019

5260MHz_TX



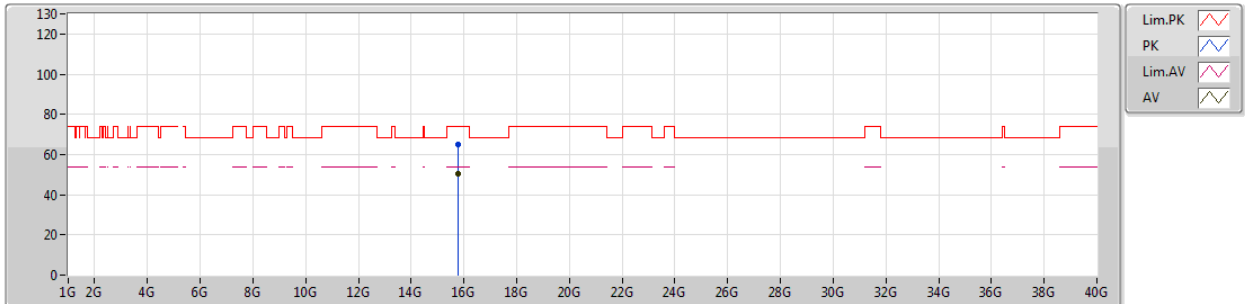
EUT Y_4TX
Setting 95
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	15.7797G	66.94	74.00	-7.06	15.52	3	Vertical	213	1.74	-						
AV	15.7796G	50.95	54.00	-3.05	15.52	3	Vertical	213	1.74	-						

802.11ax HEW20_Nss1,(MCS0)_4TX

10/04/2019

5260MHz_TX



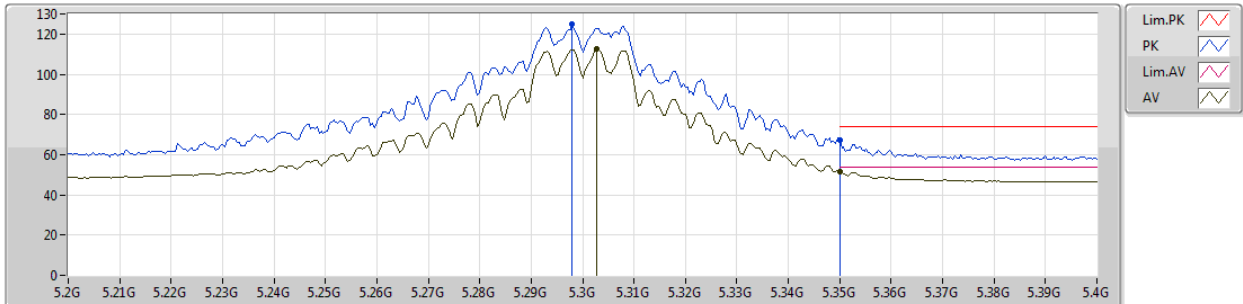
EUT Y_4TX
Setting 95
02-M-1
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	15.7789G	65.02	74.00	-8.98	15.52	3	Horizontal	311	2.67	-						
AV	15.779G	50.56	54.00	-3.44	15.52	3	Horizontal	311	2.67	-						

802.11ax HEW20_Nss1,(MCS0)_4TX

10/04/2019

5300MHz_TX



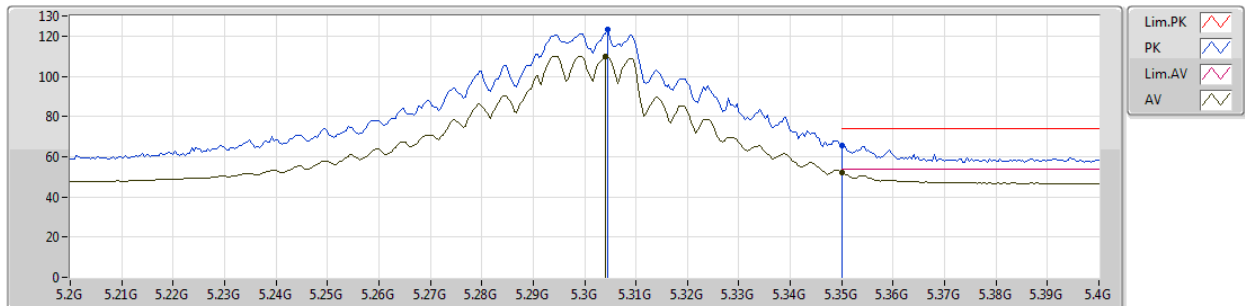
EUT_Y_4TX
Setting 96
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.298G	124.71	Inf	-Inf	8.31	3	Vertical	139	1.50	-
AV	5.3028G	112.46	Inf	-Inf	8.31	3	Vertical	139	1.50	-
PK	5.35G	67.23	74.00	-6.77	8.38	3	Vertical	139	1.50	-
AV	5.35G	51.73	54.00	-2.27	8.38	3	Vertical	139	1.50	-

802.11ax HEW20_Nss1,(MCS0)_4TX

10/04/2019

5300MHz_TX



EUT_Y_4TX
Setting 96
02-M-1-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.3044G	123.03	Inf	-Inf	8.31	3	Horizontal	222	2.35	-
AV	5.304G	109.91	Inf	-Inf	8.31	3	Horizontal	222	2.35	-
PK	5.35G	65.78	74.00	-8.22	8.38	3	Horizontal	222	2.35	-
AV	5.35G	52.33	54.00	-1.67	8.38	3	Horizontal	222	2.35	-