

FCC Test Report

FCC ID : QYL8265FB1
Equipment : Tablet
Brand Name : Getac
Model Name : F110
Applicant : Getac Technology Corporation.
5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang
Dist., Taipei City 11568, Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 09, 2019, and testing was started from Jul. 12, 2019 and completed on Aug. 16, 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 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: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Jackson Tsai

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX(Port1)
5.25-5.35GHz	802.11a	20	1TX(Port1)
5.47-5.725GHz	802.11a	20	1TX(Port1)
5.725-5.85GHz	802.11a	20	1TX(Port1)
5.15-5.25GHz	802.11a	20	1TX(Port2)
5.25-5.35GHz	802.11a	20	1TX(Port2)
5.47-5.725GHz	802.11a	20	1TX(Port2)
5.725-5.85GHz	802.11a	20	1TX(Port2)
5.15-5.25GHz	802.11a	20	2TX
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	1TX(Port1)

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT20	20	1TX(Port1)
5.47-5.725GHz	802.11ac VHT20	20	1TX(Port1)
5.725-5.85GHz	802.11ac VHT20	20	1TX(Port1)
5.15-5.25GHz	802.11ac VHT20	20	1TX(Port2)
5.25-5.35GHz	802.11ac VHT20	20	1TX(Port2)
5.47-5.725GHz	802.11ac VHT20	20	1TX(Port2)
5.725-5.85GHz	802.11ac VHT20	20	1TX(Port2)
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	1TX(Port1)
5.25-5.35GHz	802.11ac VHT40	40	1TX(Port1)
5.47-5.725GHz	802.11ac VHT40	40	1TX(Port1)
5.725-5.85GHz	802.11ac VHT40	40	1TX(Port1)
5.15-5.25GHz	802.11ac VHT40	40	1TX(Port2)
5.25-5.35GHz	802.11ac VHT40	40	1TX(Port2)
5.47-5.725GHz	802.11ac VHT40	40	1TX(Port2)
5.725-5.85GHz	802.11ac VHT40	40	1TX(Port2)
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	1TX(Port1)
5.25-5.35GHz	802.11ac VHT80	80	1TX(Port1)
5.47-5.725GHz	802.11ac VHT80	80	1TX(Port1)
5.725-5.85GHz	802.11ac VHT80	80	1TX(Port1)
5.15-5.25GHz	802.11ac VHT80	80	1TX(Port2)
5.25-5.35GHz	802.11ac VHT80	80	1TX(Port2)
5.47-5.725GHz	802.11ac VHT80	80	1TX(Port2)
5.725-5.85GHz	802.11ac VHT80	80	1TX(Port2)
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1 (Main)	-	-	PIFA antenna	I-PEX
2 (Aux)	-	-	PIFA antenna	I-PEX

Ant.	Port	Gain (dBi)					
		2.4G	5G				BT
			U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	
1	1	2.96	3.55	3.47	3.14	2.8	-
2	2	1.83	0.58	0.58	0.8	1.11	1.83

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Support diversity function and tested on both chains.

For IEEE 802.11 b/g/n mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

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

Support diversity function and tested on both chains.

For IEEE 802.11 a/n/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 2 (port 2) can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Identify EUT			
WLAN Module	Brand Name: Intel / Model Name: 8265NGW		
Operational Condition			
EUT Power Type	From AC Adapter / Battery		
EUT Function	☐ Outdoor	☐ Indoor	
	☐ Fixed P2P	☒ Client	
Beamforming Function	☐ With beamforming	☒ Without beamforming	
TPC Function	☒ With TPC Function	☐ Without TPC Function	
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.: ...		
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.949	0.23	2.053m	1k
802.11ac VHT20	0.847	0.72	990.625u	3k
802.11ac VHT40	0.844	0.74	503.125u	3k
802.11ac VHT80	0.843	0.74	262.5u	10k

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

1.2 Testing Applied Standards

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

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

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
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Jeff	21.8~24.2°C / 51.3~53.1%	17/Jul/2019
RF Conducted	TH06-HY	Alan	23.5~24.9°C / 65~66.5%	15/Jul/2019~ 16/Aug/2019
Radiated	03CH02-HY	Patrick	23.7~25.9°C / 51.4~56.2%	12/Jul/2019~ 05/Aug/2019

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software	DRTU
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX(Port1)	-
5180MHz	16.125
5200MHz	16.125
5240MHz	16.125
5260MHz	15.875
5300MHz	16
5320MHz	15.375
5500MHz	14.75
5580MHz	14.25
5700MHz	14.75
5720MHz Straddle 5.47-5.725GHz	15.875
5720MHz Straddle 5.725-5.85GHz	15.875
5745MHz	15.75
5785MHz	16.25
5825MHz	16.75
802.11a_Nss1,(6Mbps)_1TX(Port2)	-
5180MHz	17
5200MHz	17
5240MHz	17
5260MHz	17.5
5300MHz	17.25
5320MHz	17
5500MHz	17.375

Mode	Power Setting
5580MHz	17.5
5700MHz	17.375
5720MHz Straddle 5.47-5.725GHz	17.625
5720MHz Straddle 5.725-5.85GHz	17.625
5745MHz	18
5785MHz	18
5825MHz	18
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	15.875,15.75
5200MHz	16,16
5240MHz	15.5,16
5260MHz	15.75,16.25
5300MHz	15.75,16.25
5320MHz	15.375,24
5500MHz	14.75,16.125
5580MHz	14.125,16.125
5700MHz	14.375,16
5720MHz Straddle 5.47-5.725GHz	15.25,16.5
5720MHz Straddle 5.725-5.85GHz	15.25,16.5
5745MHz	15.75,16.875
5785MHz	16.125,16.875
5825MHz	16.375,16.75
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	-
5180MHz	16.125
5200MHz	16.25
5240MHz	16.25
5260MHz	15.75
5300MHz	15.75
5320MHz	14.375
5500MHz	14.875
5580MHz	14
5700MHz	13.75
5720MHz Straddle 5.47-5.725GHz	15
5720MHz Straddle 5.725-5.85GHz	15
5745MHz	15.25



Mode	Power Setting
5785MHz	15.875
5825MHz	16.25
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	-
5180MHz	17
5200MHz	17
5240MHz	17.125
5260MHz	16.875
5300MHz	16.875
5320MHz	16.5
5500MHz	16.875
5580MHz	16.875
5700MHz	16.875
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
5745MHz	17.5
5785MHz	17.5
5825MHz	17.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	15.625,16.125
5200MHz	15.625,16.125
5240MHz	15.625,16.125
5260MHz	15,16.125
5300MHz	15,15.875
5320MHz	14.375,24
5500MHz	14.375,15.875
5580MHz	13.625,15.75
5700MHz	13.625,15.875
5720MHz Straddle 5.47-5.725GHz	14.75,16.375
5720MHz Straddle 5.725-5.85GHz	14.75,16.375
5745MHz	14.375,16
5785MHz	15.125,16.125
5825MHz	16.875,16.375
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	-
5190MHz	15
5230MHz	15.875



Mode	Power Setting
5270MHz	15.25
5310MHz	14.75
5510MHz	13
5550MHz	14
5670MHz	13.5
5710MHz Straddle 5.47-5.725GHz	14.375
5710MHz Straddle 5.725-5.85GHz	14.375
5755MHz	14.625
5795MHz	15.375
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	-
5190MHz	17
5230MHz	17
5270MHz	16.875
5310MHz	16.625
5510MHz	17.375
5550MHz	17
5670MHz	16.625
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
5755MHz	17.5
5795MHz	17.375
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	15,24
5230MHz	15.75,16.5
5270MHz	15.125,16.375
5310MHz	14.75,24
5510MHz	14.5,16.25
5550MHz	14.25,16.375
5670MHz	13.5,16.125
5710MHz Straddle 5.47-5.725GHz	14.125,16.25
5710MHz Straddle 5.725-5.85GHz	14.125,16.25
5755MHz	14.625,16.5
5795MHz	15.875,16.5
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	-
5210MHz	13.5



Mode	Power Setting
5290MHz	13.375
5530MHz	10
5610MHz	13.75
5690MHz Straddle 5.47-5.725GHz	13.875
5690MHz Straddle 5.725-5.85GHz	13.875
5775MHz	15.375
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	-
5210MHz	17.125
5290MHz	16.875
5530MHz	17
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	16.75
5690MHz Straddle 5.725-5.85GHz	16.75
5775MHz	17.75
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	13.5,15
5290MHz	13.375,15
5530MHz	10,12
5610MHz	13.875,16.25
5690MHz Straddle 5.47-5.725GHz	13.625,16
5690MHz Straddle 5.725-5.85GHz	13.625,16
5775MHz	15.25,16.875

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	Adapter mode

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. Simultaneous transmission was estimated to be pass by applicant		
Operating Mode < 1GHz	CTX		
1	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V (2TX)	V (1TX)

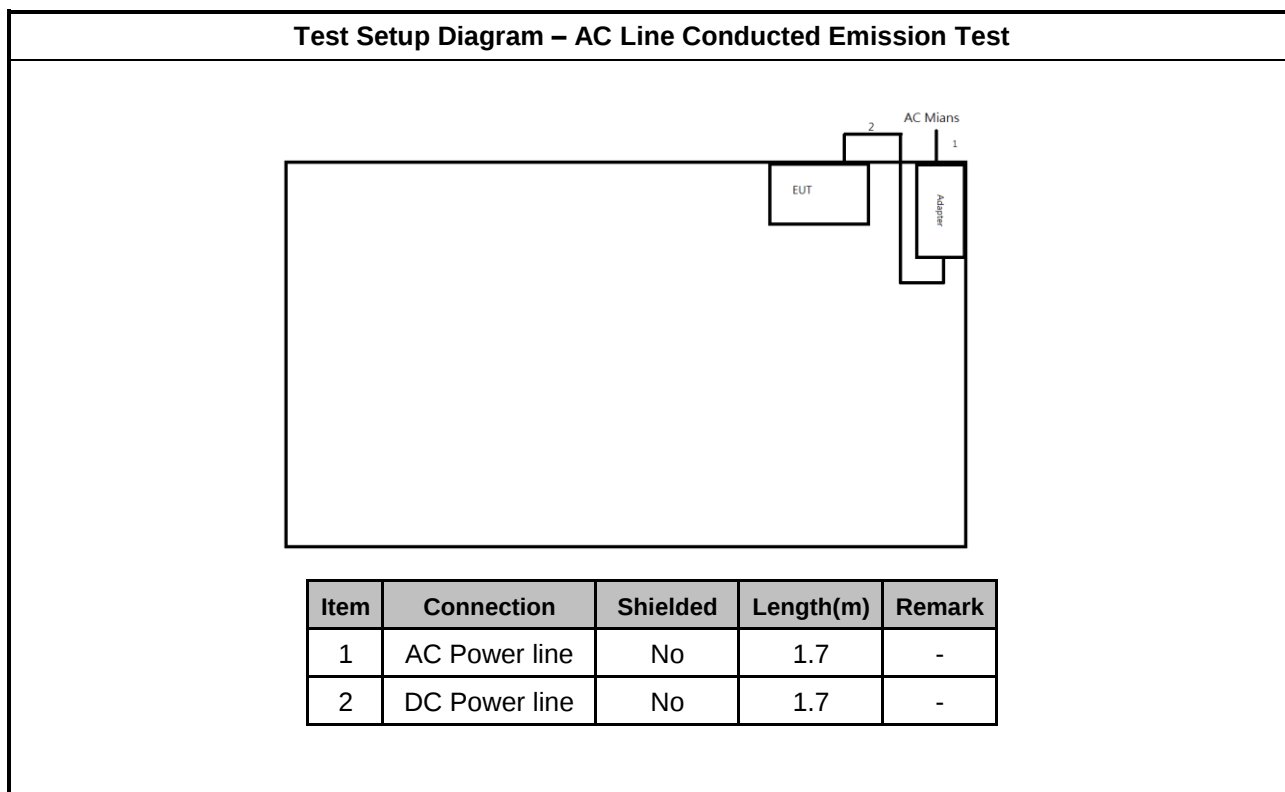
2.4 Accessories and Support Equipment

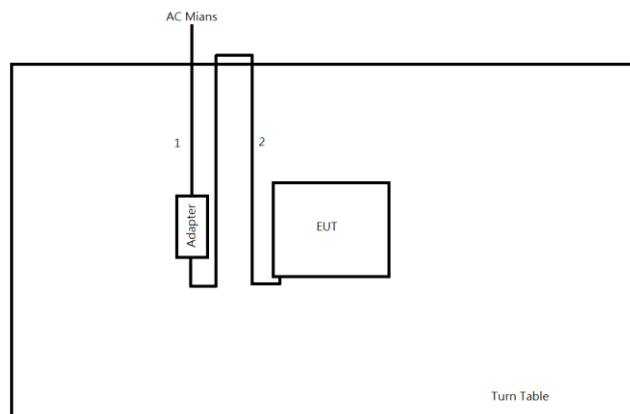
Accessories				
AC Adapter	Brand Name	Chicony	Model Name	A12-065N2A
	Power Rating	I/P: 100-240Vac, 1.7A, O/P: 19Vdc, 3.42 A, 65W		
	AC Power Cord	1.7meter, non-shielded cable, w/o ferrite core		
	DC Power Cable	1.7meter, non-shielded cable, with a ferrite core		
Battery *2	Brand Name	Getac	Model Name	BP3S1P2160-S
	Power Rating	11.4Vdc, 2160mAh	Type	Li-ion

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

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	AC Power Source	GW	APS-9102	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.7	-
2	DC Power line	No	1.7	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

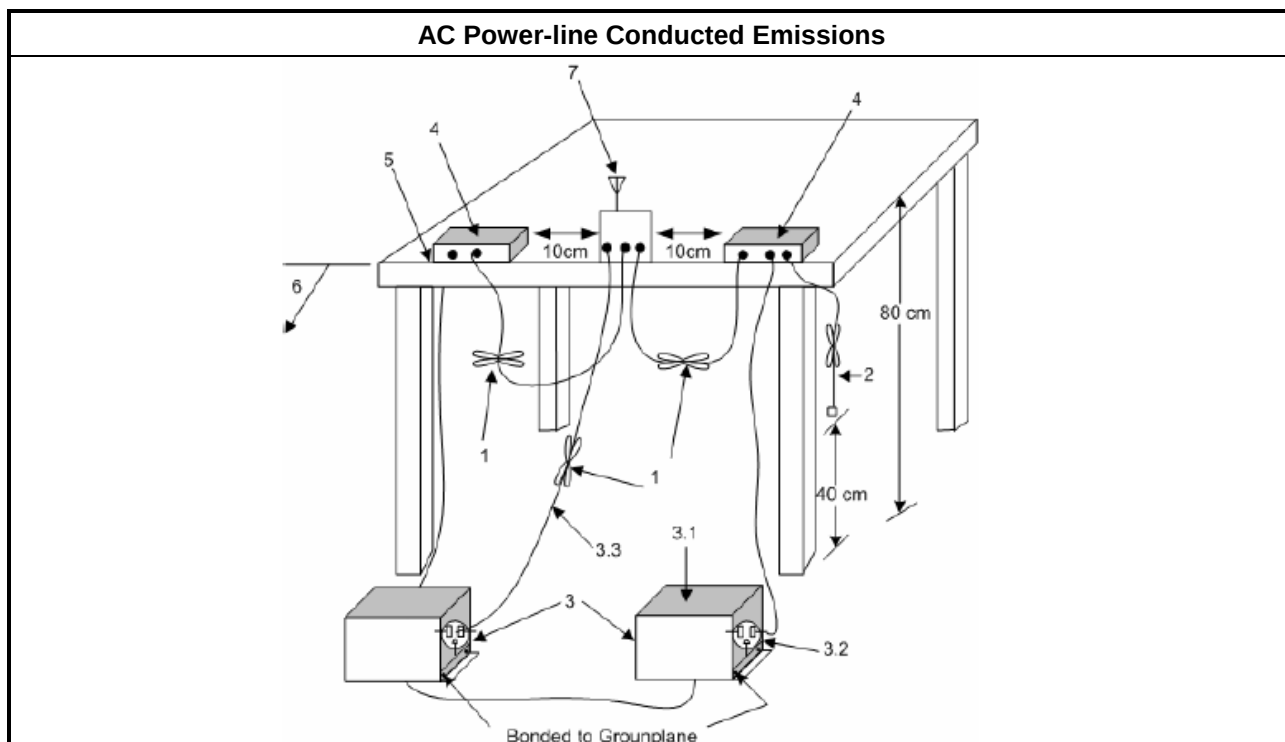
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, N/A
☒	For the 5.47-5.725 GHz band, N/A
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

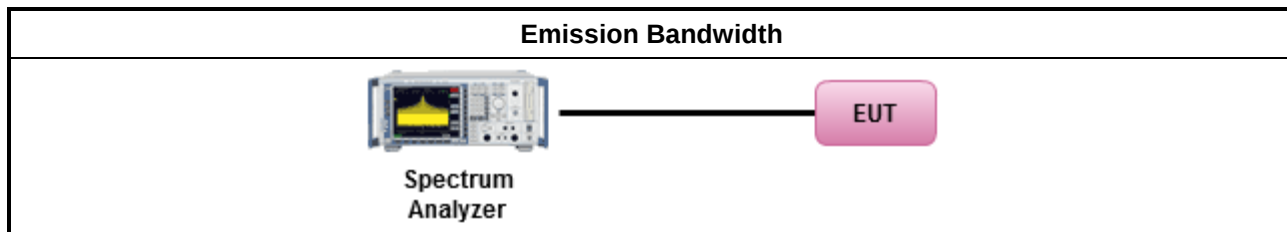
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 6.7 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

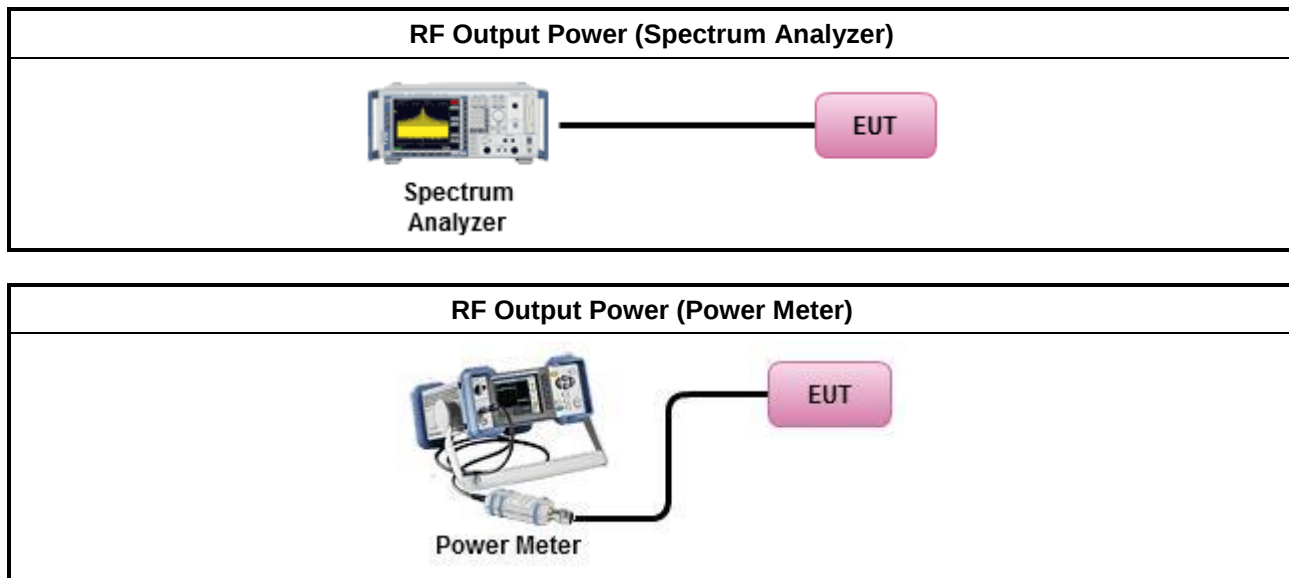
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☒	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
	Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
	Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$.
	Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$.
	Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

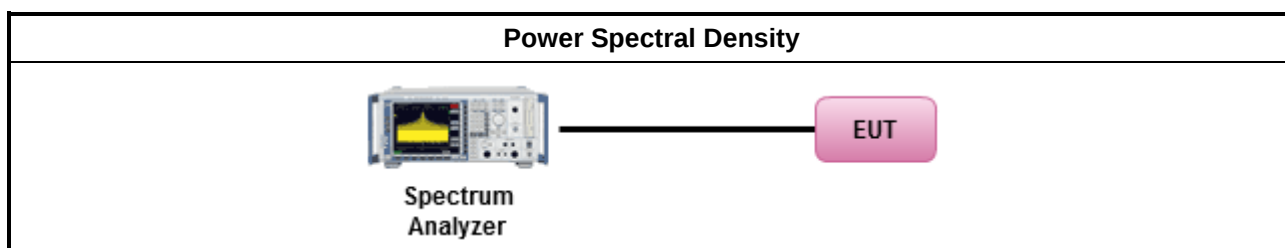
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
Duty cycle ≥ 98%	
☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
Duty cycle < 98%	
☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☐ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall

be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

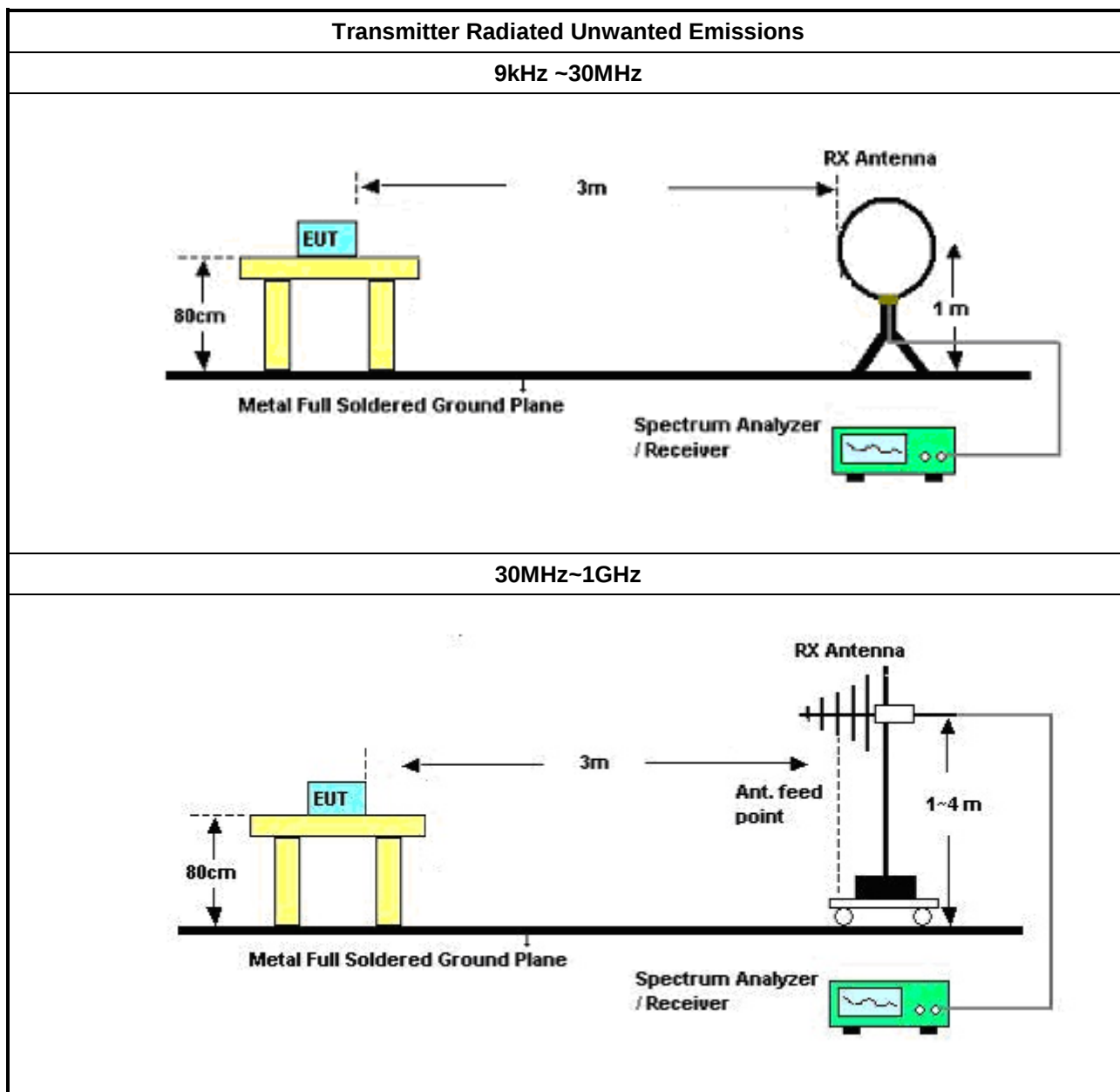
3.5.2 Measuring Instruments

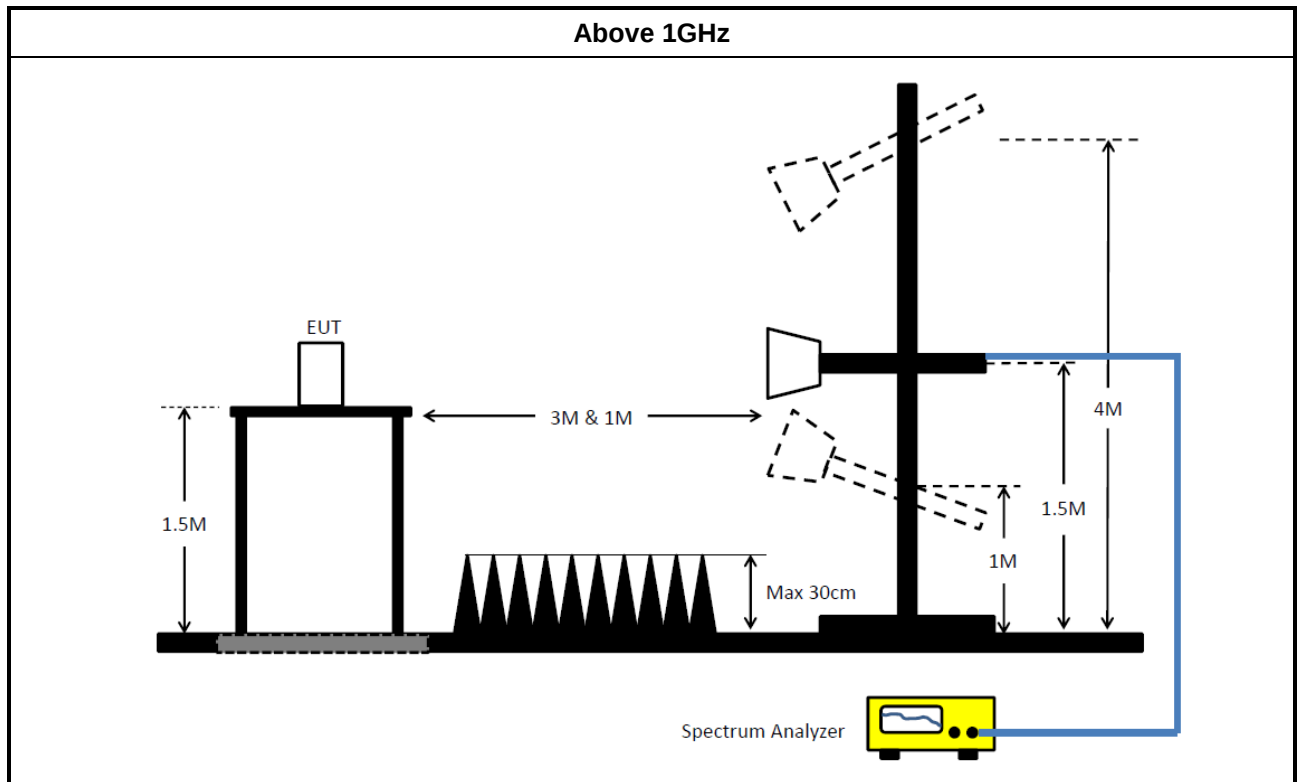
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
	☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	30-1000MHz	02/Jul/2019	01/Jul/2020
Microwave Preampifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Dec/2018	26/Dec/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	18/Jan/2019	17/Jan/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	18/Jan/2019	17/Jan/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2018	07/Sep/2019
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020

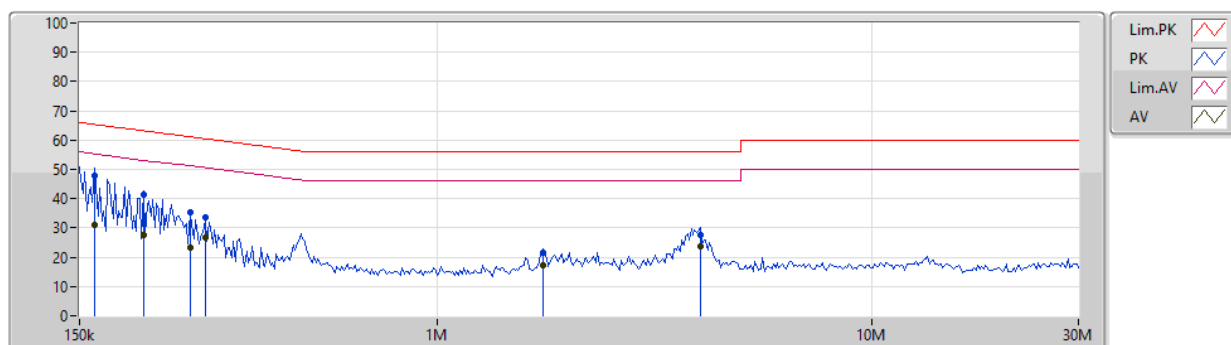
Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	13/Mar/2019	12/Mar/2020
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode		

17/07/2019

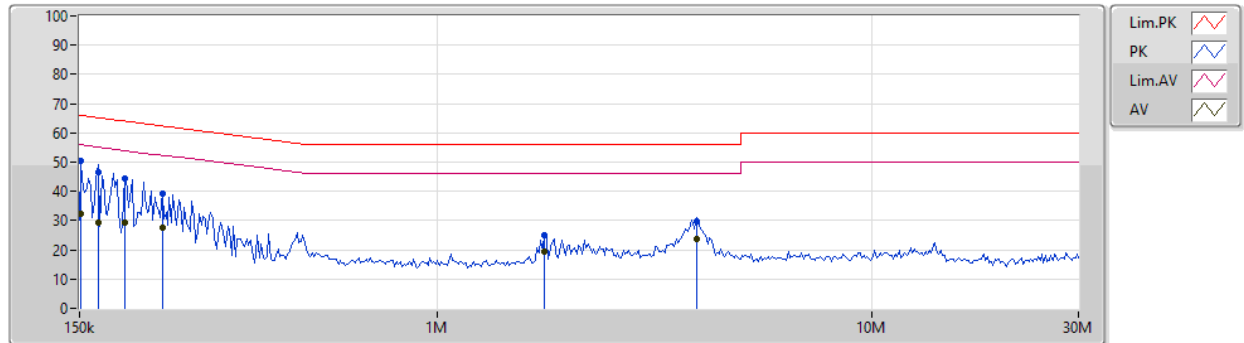


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	162.429k	47.74	65.33	-17.59	19.48	Neutral	"Worst"	28.26	9.60	0.01	9.87			
AV	162.429k	30.83	55.33	-24.50	19.48	Neutral	-	11.35	9.60	0.01	9.87			
QP	210.387k	41.52	63.19	-21.67	19.47	Neutral	-	22.05	9.59	0.01	9.87			
AV	210.387k	27.58	53.19	-25.61	19.47	Neutral	-	8.11	9.59	0.01	9.87			
QP	269.806k	35.16	61.12	-25.96	19.47	Neutral	-	15.69	9.59	0.01	9.87			
AV	269.806k	23.42	51.12	-27.70	19.47	Neutral	-	3.95	9.59	0.01	9.87			
QP	292.162k	33.65	60.46	-26.81	19.48	Neutral	-	14.17	9.59	0.01	9.88			
AV	292.162k	26.64	50.46	-23.82	19.48	Neutral	-	7.16	9.59	0.01	9.88			
QP	1.752M	21.71	56.00	-34.29	19.53	Neutral	-	2.18	9.61	0.03	9.89			
AV	1.752M	17.25	46.00	-28.75	19.53	Neutral	-	-2.28	9.61	0.03	9.89			
QP	4.041M	27.51	56.00	-28.49	19.55	Neutral	-	7.96	9.61	0.05	9.89			
AV	4.041M	23.61	46.00	-22.39	19.55	Neutral	-	4.06	9.61	0.05	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode		

17/07/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.5k	50.33	65.92	-15.59	19.48	Line	"Worst"	30.85	9.60	0.01	9.87			
AV	151.5k	32.42	55.92	-23.50	19.48	Line	-	12.94	9.60	0.01	9.87			
QP	165.693k	46.47	65.18	-18.71	19.48	Line	-	26.99	9.60	0.01	9.87			
AV	165.693k	29.34	55.18	-25.84	19.48	Line	-	9.86	9.60	0.01	9.87			
QP	190.46k	44.35	64.01	-19.66	19.48	Line	-	24.87	9.60	0.01	9.87			
AV	190.46k	29.20	54.01	-24.81	19.48	Line	-	9.72	9.60	0.01	9.87			
QP	232.398k	39.20	62.37	-23.17	19.48	Line	-	19.72	9.60	0.01	9.87			
AV	232.398k	27.54	52.37	-24.83	19.48	Line	-	8.06	9.60	0.01	9.87			
QP	1.769M	24.86	56.00	-31.14	19.54	Line	-	5.32	9.62	0.03	9.89			
AV	1.769M	19.26	46.00	-26.74	19.54	Line	-	-0.28	9.62	0.03	9.89			
QP	3.961M	29.87	56.00	-26.13	19.57	Line	-	10.30	9.63	0.05	9.89			
AV	3.961M	23.87	46.00	-22.13	19.57	Line	-	4.30	9.63	0.05	9.89			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	25.29M	16.522M	16M5D1D	24.87M	16.432M
802.11a_Nss1,(6Mbps)_1TX(Port2)	24.15M	16.462M	16M5D1D	23.85M	16.432M
802.11a_Nss1,(6Mbps)_2TX	25.44M	16.522M	16M5D1D	24.15M	16.432M
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	25.92M	17.661M	17M7D1D	25.8M	17.631M
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	24.42M	17.631M	17M6D1D	23.73M	17.631M
802.11ac VHT20_Nss1,(MCS0)_2TX	25.89M	17.661M	17M7D1D	24.03M	17.601M
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	45.9M	36.102M	36M1D1D	45.72M	36.042M
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	45.18M	36.042M	36M0D1D	44.82M	36.042M
802.11ac VHT40_Nss1,(MCS0)_2TX	46.74M	36.162M	36M2D1D	42.96M	35.982M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	87M	75.322M	75M3D1D	87M	75.322M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	86.76M	75.202M	75M2D1D	86.76M	75.202M
802.11ac VHT80_Nss1,(MCS0)_2TX	84.84M	75.322M	75M3D1D	83.76M	74.843M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	24.84M	16.432M	16M4D1D	23.82M	16.402M
802.11a_Nss1,(6Mbps)_1TX(Port2)	24.81M	16.492M	16M5D1D	23.94M	16.432M
802.11a_Nss1,(6Mbps)_2TX	24.36M	16.462M	16M5D1D	22.62M	16.402M
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	25.32M	17.661M	17M7D1D	25.02M	17.601M
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	24.81M	17.661M	17M7D1D	23.82M	17.631M
802.11ac VHT20_Nss1,(MCS0)_2TX	25.14M	17.661M	17M7D1D	23.85M	17.601M
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	46.32M	36.102M	36M1D1D	46.32M	36.102M
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	45.42M	36.102M	36M1D1D	45.06M	36.102M
802.11ac VHT40_Nss1,(MCS0)_2TX	46.92M	36.102M	36M1D1D	44.04M	36.042M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	86.04M	75.082M	75M1D1D	86.04M	75.082M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	84.96M	74.843M	74M8D1D	84.96M	74.843M
802.11ac VHT80_Nss1,(MCS0)_2TX	87.48M	75.202M	75M2D1D	84.36M	74.963M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	25.26M	16.462M	16M5D1D	17.355M	13.238M
802.11a_Nss1,(6Mbps)_1TX(Port2)	24.87M	16.492M	16M5D1D	17.115M	13.253M
802.11a_Nss1,(6Mbps)_2TX	30.75M	16.462M	16M5D1D	17.19M	13.223M
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	26.34M	17.661M	17M7D1D	17.115M	13.838M
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	25.02M	17.691M	17M7D1D	16.98M	13.823M
802.11ac VHT20_Nss1,(MCS0)_2TX	26.16M	17.661M	17M7D1D	17.01M	13.838M
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	47.4M	36.102M	36M1D1D	37.905M	32.744M
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	47.28M	36.162M	36M2D1D	36.925M	32.884M
802.11ac VHT40_Nss1,(MCS0)_2TX	46.26M	36.102M	36M1D1D	37.135M	32.744M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	87.96M	75.082M	75M1D1D	77.775M	71.964M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	84.36M	75.082M	75M1D1D	77.175M	71.964M
802.11ac VHT80_Nss1,(MCS0)_2TX	87.96M	75.322M	75M3D1D	77.025M	71.664M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	16.32M	28.246M	28M2D1D	3.1M	5.877M
802.11a_Nss1,(6Mbps)_1TX(Port2)	16.32M	16.612M	16M6D1D	2.48M	5.357M
802.11a_Nss1,(6Mbps)_2TX	16.35M	16.552M	16M6D1D	3.12M	4.718M
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	15.93M	17.691M	17M7D1D	3.12M	5.797M

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	15.93M	17.751M	17M8D1D	3.76M	5.277M
802.11ac VHT20_Nss1,(MCS0)_2TX	15.9M	17.691M	17M7D1D	3.1M	4.998M
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	35.04M	36.102M	36M1D1D	3.14M	7.796M
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	35.1M	36.162M	36M2D1D	3.14M	12.034M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.1M	36.162M	36M2D1D	3.14M	6.497M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	70.08M	75.322M	75M3D1D	3.12M	27.586M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	68.88M	75.322M	75M3D1D	3.12M	27.986M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.12M	75.202M	75M2D1D	3.12M	20.73M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX(Port1)	-	-	-	-	-	-
5180MHz	Pass	Inf	25.29M	16.522M		
5200MHz	Pass	Inf	25.23M	16.492M		
5240MHz	Pass	Inf	24.87M	16.432M		
5260MHz	Pass	Inf	24.84M	16.432M		
5300MHz	Pass	Inf	23.82M	16.432M		
5320MHz	Pass	Inf	24.54M	16.402M		
5500MHz	Pass	Inf	24M	16.432M		
5580MHz	Pass	Inf	23.79M	16.432M		
5700MHz	Pass	Inf	25.26M	16.462M		
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.355M	13.238M		
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	5.877M		
5745MHz	Pass	500k	15.27M	28.246M		
5785MHz	Pass	500k	15M	16.492M		
5825MHz	Pass	500k	16.32M	16.462M		
802.11a_Nss1,(6Mbps)_1TX(Port2)	-	-	-	-	-	-
5180MHz	Pass	Inf			24.12M	16.432M
5200MHz	Pass	Inf			24.15M	16.432M
5240MHz	Pass	Inf			23.85M	16.462M
5260MHz	Pass	Inf			24.81M	16.432M
5300MHz	Pass	Inf			24.18M	16.492M
5320MHz	Pass	Inf			23.94M	16.432M
5500MHz	Pass	Inf			24.51M	16.432M
5580MHz	Pass	Inf			24.06M	16.402M
5700MHz	Pass	Inf			24.87M	16.492M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf			17.115M	13.253M
5720MHz Straddle 5.725-5.85GHz	Pass	500k			2.48M	5.357M
5745MHz	Pass	500k			15.09M	16.492M
5785MHz	Pass	500k			14.97M	16.522M
5825MHz	Pass	500k			16.32M	16.612M
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	25.44M	16.522M	24.15M	16.462M
5200MHz	Pass	Inf	25.44M	16.522M	24.36M	16.432M
5240MHz	Pass	Inf	25.32M	16.462M	24.36M	16.462M
5260MHz	Pass	Inf	22.62M	16.462M	24.09M	16.432M
5300MHz	Pass	Inf	24.36M	16.462M	23.49M	16.462M
5320MHz	Pass	Inf	23.79M	16.402M	23.76M	16.402M
5500MHz	Pass	Inf	24.06M	16.432M	24.18M	16.402M
5580MHz	Pass	Inf	22.8M	16.462M	23.4M	16.432M
5700MHz	Pass	Inf	30.75M	16.462M	22.68M	16.402M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.19M	13.238M	17.22M	13.223M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	6.157M	3.12M	4.718M
5745MHz	Pass	500k	16.35M	16.522M	15.09M	16.462M
5785MHz	Pass	500k	15.06M	16.522M	15M	16.522M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5825MHz	Pass	500k	15.33M	16.432M	15.09M	16.552M
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5180MHz	Pass	Inf	25.86M	17.661M		
5200MHz	Pass	Inf	25.92M	17.631M		
5240MHz	Pass	Inf	25.8M	17.631M		
5260MHz	Pass	Inf	25.32M	17.661M		
5300MHz	Pass	Inf	25.23M	17.601M		
5320MHz	Pass	Inf	25.02M	17.661M		
5500MHz	Pass	Inf	24.87M	17.601M		
5580MHz	Pass	Inf	24.42M	17.631M		
5700MHz	Pass	Inf	26.34M	17.661M		
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.115M	13.838M		
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	5.797M		
5745MHz	Pass	500k	15.93M	17.691M		
5785MHz	Pass	500k	15.06M	17.661M		
5825MHz	Pass	500k	15.03M	17.661M		
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5180MHz	Pass	Inf			23.85M	17.631M
5200MHz	Pass	Inf			24.42M	17.631M
5240MHz	Pass	Inf			23.73M	17.631M
5260MHz	Pass	Inf			24.42M	17.631M
5300MHz	Pass	Inf			24.81M	17.631M
5320MHz	Pass	Inf			23.82M	17.661M
5500MHz	Pass	Inf			25.02M	17.601M
5580MHz	Pass	Inf			24M	17.601M
5700MHz	Pass	Inf			24.63M	17.691M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf			16.98M	13.823M
5720MHz Straddle 5.725-5.85GHz	Pass	500k			3.76M	5.277M
5745MHz	Pass	500k			15.33M	17.751M
5785MHz	Pass	500k			15.69M	17.691M
5825MHz	Pass	500k			15.93M	17.721M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	24.03M	17.661M	24.06M	17.601M
5200MHz	Pass	Inf	25.89M	17.631M	24.39M	17.601M
5240MHz	Pass	Inf	25.29M	17.631M	24.3M	17.661M
5260MHz	Pass	Inf	25.14M	17.631M	23.85M	17.631M
5300MHz	Pass	Inf	24.27M	17.631M	24.93M	17.661M
5320MHz	Pass	Inf	23.91M	17.601M	24.36M	17.631M
5500MHz	Pass	Inf	25.02M	17.601M	23.43M	17.631M
5580MHz	Pass	Inf	25.26M	17.631M	23.67M	17.631M
5700MHz	Pass	Inf	26.16M	17.661M	23.49M	17.601M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.76M	13.868M	17.01M	13.838M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.48M	5.737M	3.1M	4.998M
5745MHz	Pass	500k	15.06M	17.631M	15.9M	17.631M
5785MHz	Pass	500k	15.09M	17.631M	15.66M	17.691M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5825MHz	Pass	500k	15.09M	17.601M	15.12M	17.691M
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5190MHz	Pass	Inf	45.72M	36.102M		
5230MHz	Pass	Inf	45.9M	36.042M		
5270MHz	Pass	Inf	46.32M	36.102M		
5310MHz	Pass	Inf	46.32M	36.102M		
5510MHz	Pass	Inf	46.14M	36.102M		
5550MHz	Pass	Inf	45.3M	36.102M		
5670MHz	Pass	Inf	47.4M	36.042M		
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	37.905M	32.744M		
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	7.796M		
5755MHz	Pass	500k	34.92M	36.102M		
5795MHz	Pass	500k	35.04M	36.102M		
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5190MHz	Pass	Inf			44.82M	36.042M
5230MHz	Pass	Inf			45.18M	36.042M
5270MHz	Pass	Inf			45.06M	36.102M
5310MHz	Pass	Inf			45.42M	36.102M
5510MHz	Pass	Inf			47.28M	36.162M
5550MHz	Pass	Inf			45.96M	36.042M
5670MHz	Pass	Inf			43.56M	36.042M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf			36.925M	32.884M
5710MHz Straddle 5.725-5.85GHz	Pass	500k			3.14M	12.034M
5755MHz	Pass	500k			35.1M	36.102M
5795MHz	Pass	500k			33.78M	36.162M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	43.8M	35.982M	46.74M	36.162M
5230MHz	Pass	Inf	46.32M	36.102M	42.96M	36.102M
5270MHz	Pass	Inf	46.92M	36.042M	44.52M	36.042M
5310MHz	Pass	Inf	44.04M	36.102M	44.58M	36.042M
5510MHz	Pass	Inf	45.72M	36.102M	43.68M	36.102M
5550MHz	Pass	Inf	46.26M	36.102M	44.28M	36.042M
5670MHz	Pass	Inf	45.9M	36.102M	42.72M	36.042M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	37.555M	32.744M	37.135M	32.779M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	7.816M	3.14M	6.497M
5755MHz	Pass	500k	35.04M	36.162M	35.04M	36.042M
5795MHz	Pass	500k	35.04M	36.102M	35.1M	36.162M
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-
5210MHz	Pass	Inf	87M	75.322M		
5290MHz	Pass	Inf	86.04M	75.082M		
5530MHz	Pass	Inf	87.96M	75.082M		
5610MHz	Pass	Inf	87.24M	75.082M		
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	77.775M	71.964M		
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	27.586M		
5775MHz	Pass	500k	70.08M	75.322M		

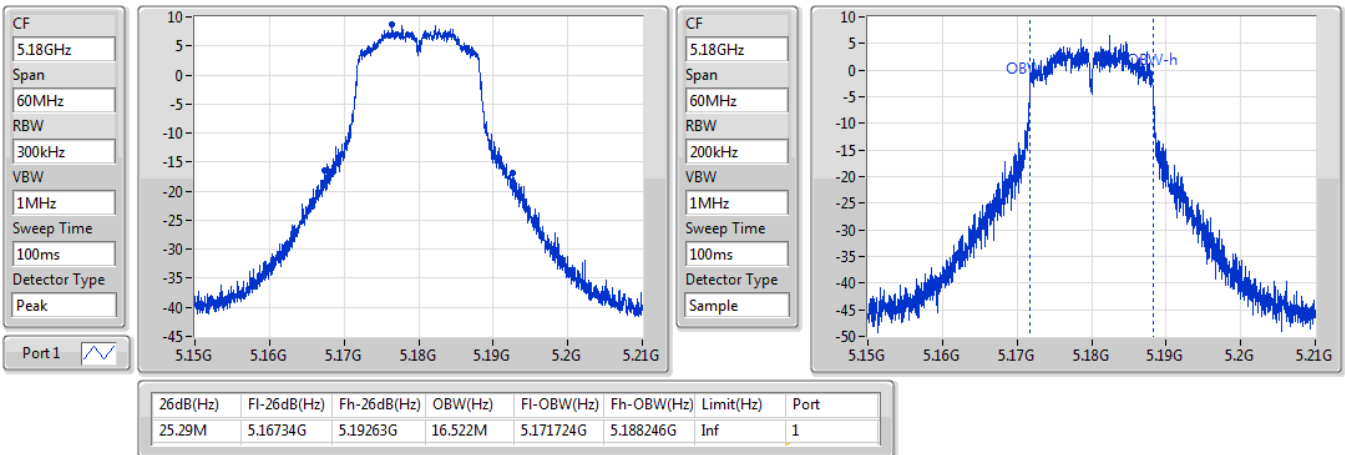
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-
5210MHz	Pass	Inf			86.76M	75.202M
5290MHz	Pass	Inf			84.96M	74.843M
5530MHz	Pass	Inf			84.36M	74.963M
5610MHz	Pass	Inf			84.12M	75.082M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf			77.175M	71.964M
5690MHz Straddle 5.725-5.85GHz	Pass	500k			3.12M	27.986M
5775MHz	Pass	500k			68.88M	75.322M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	83.76M	75.322M	84.84M	74.843M
5290MHz	Pass	Inf	84.36M	74.963M	87.48M	75.202M
5530MHz	Pass	Inf	86.28M	75.082M	78.72M	75.202M
5610MHz	Pass	Inf	87.96M	75.202M	83.4M	75.322M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	78.075M	71.664M	77.025M	71.889M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	27.346M	3.12M	20.73M
5775MHz	Pass	500k	75.12M	75.202M	63.84M	75.202M

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

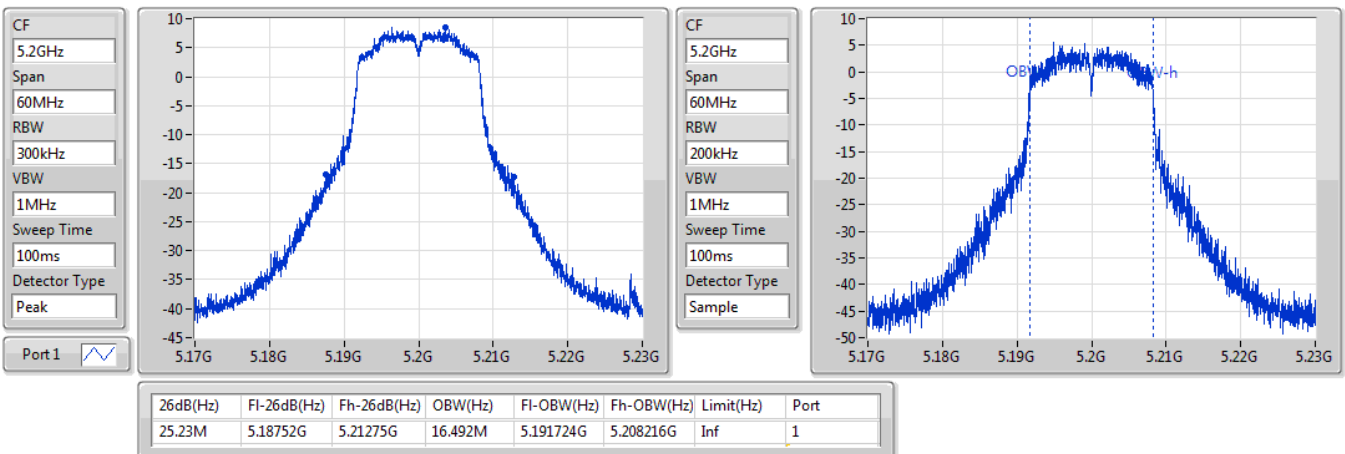
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5180MHz

16/08/2019

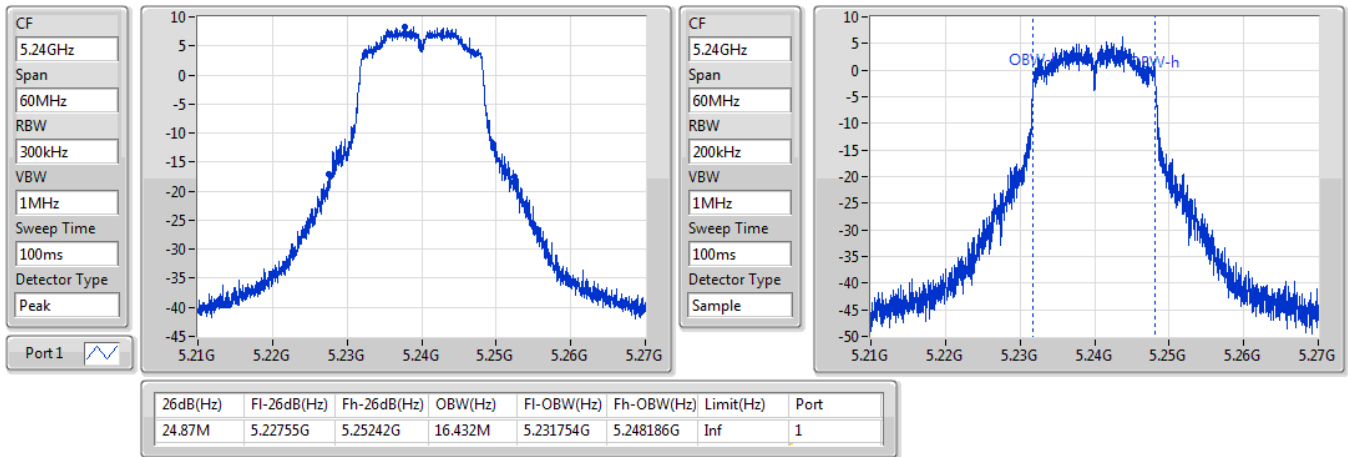

802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5200MHz

16/08/2019

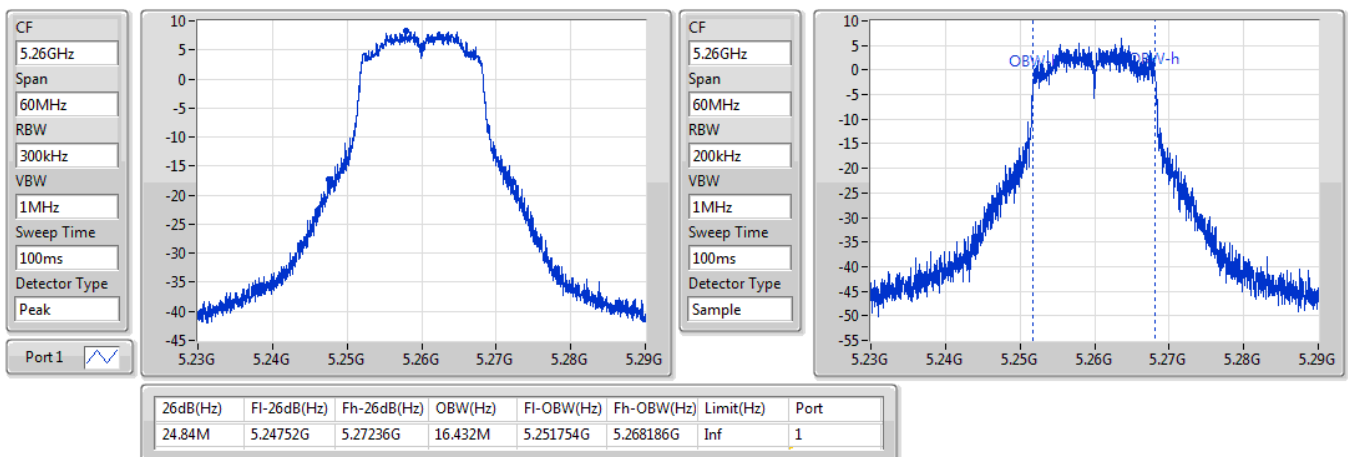


802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5240MHz

16/08/2019

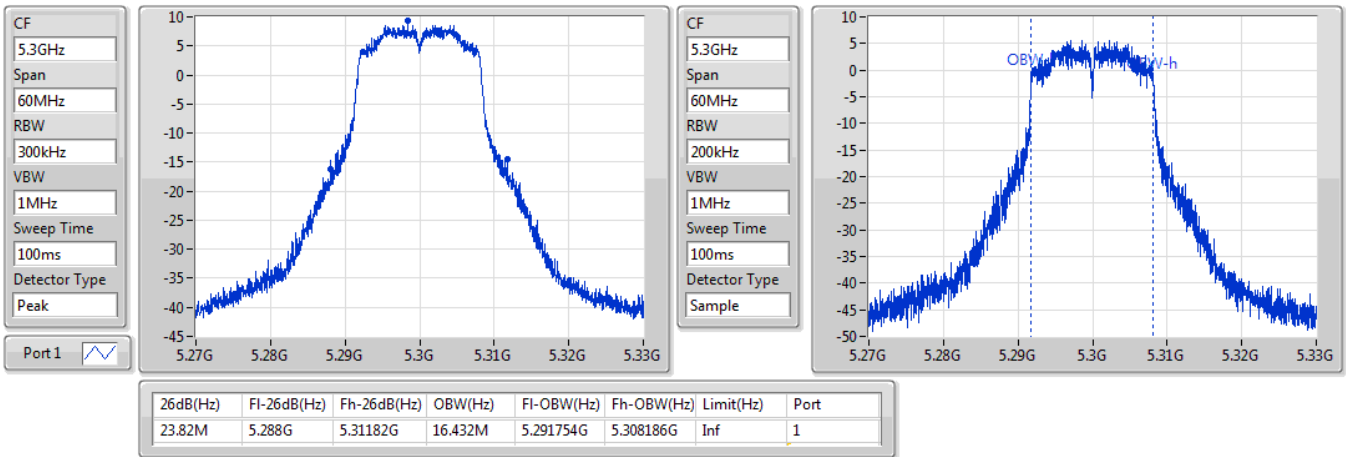

802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5260MHz

16/08/2019

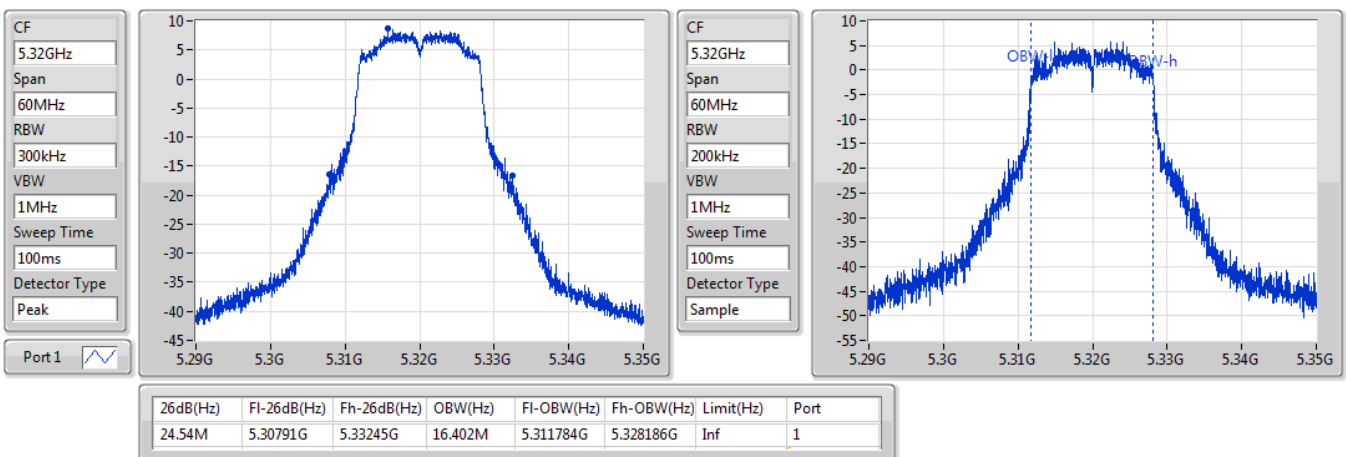


802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5300MHz

16/08/2019

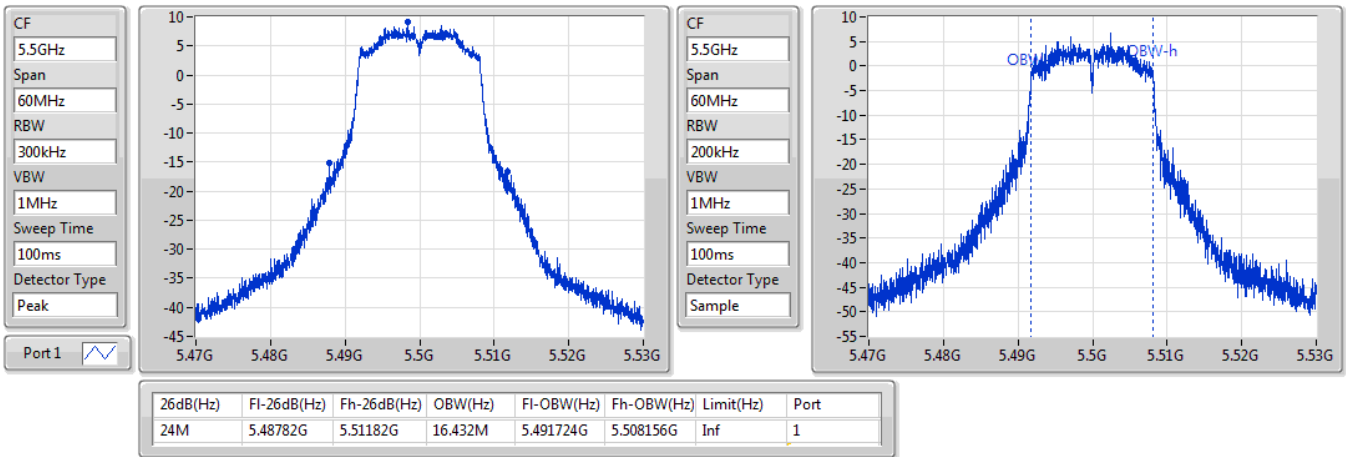

802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5320MHz

16/08/2019

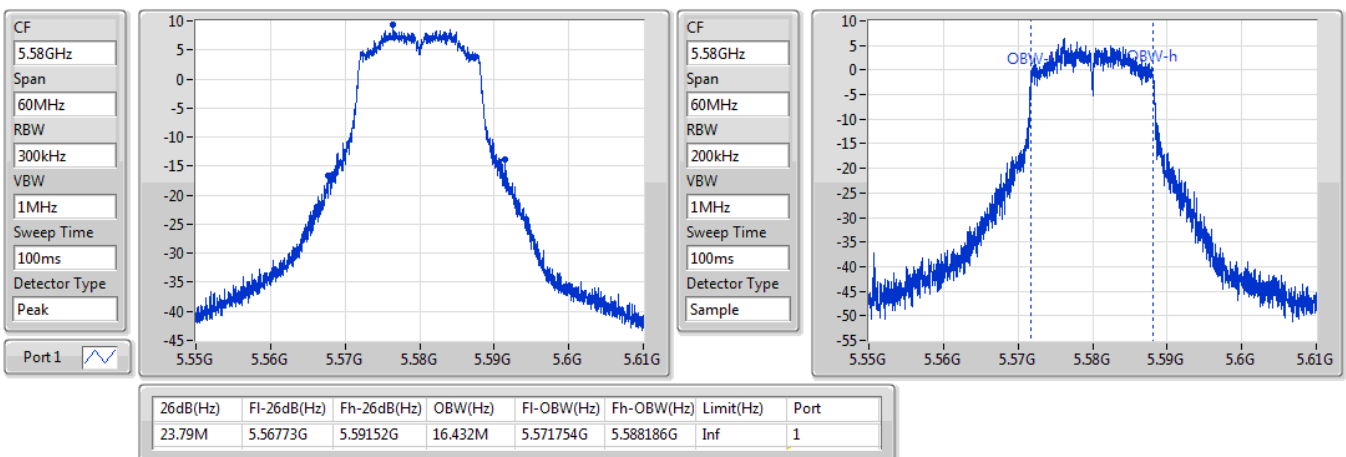


802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5500MHz

16/08/2019

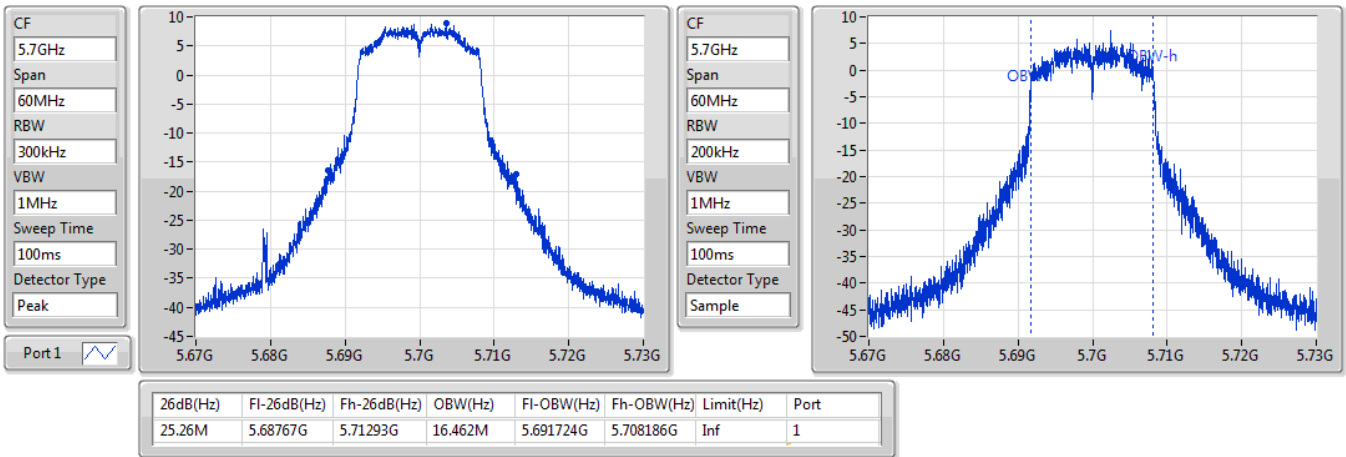

802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5580MHz

16/08/2019

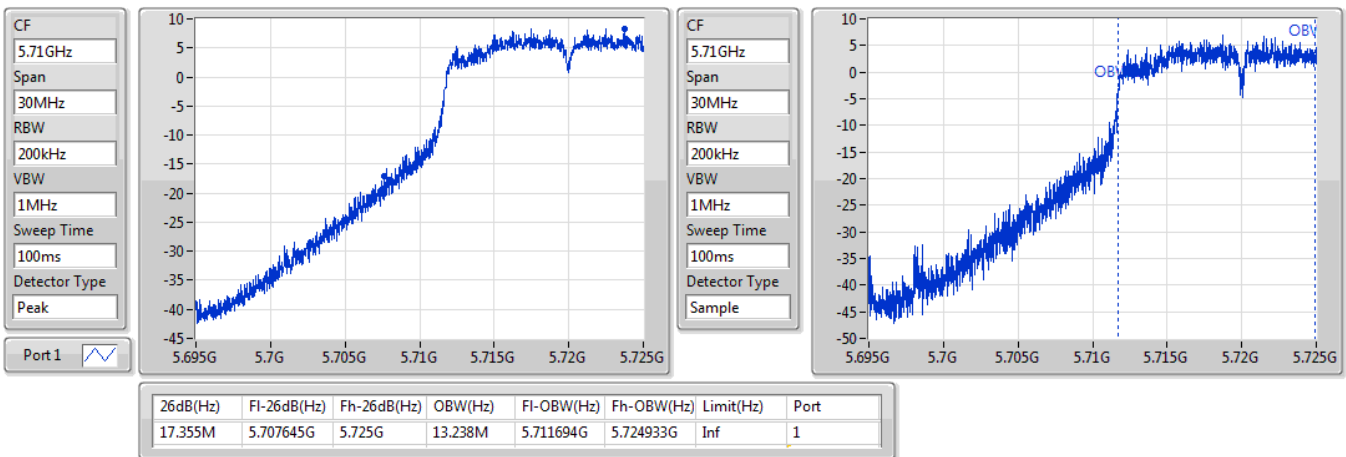


802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5700MHz

16/08/2019

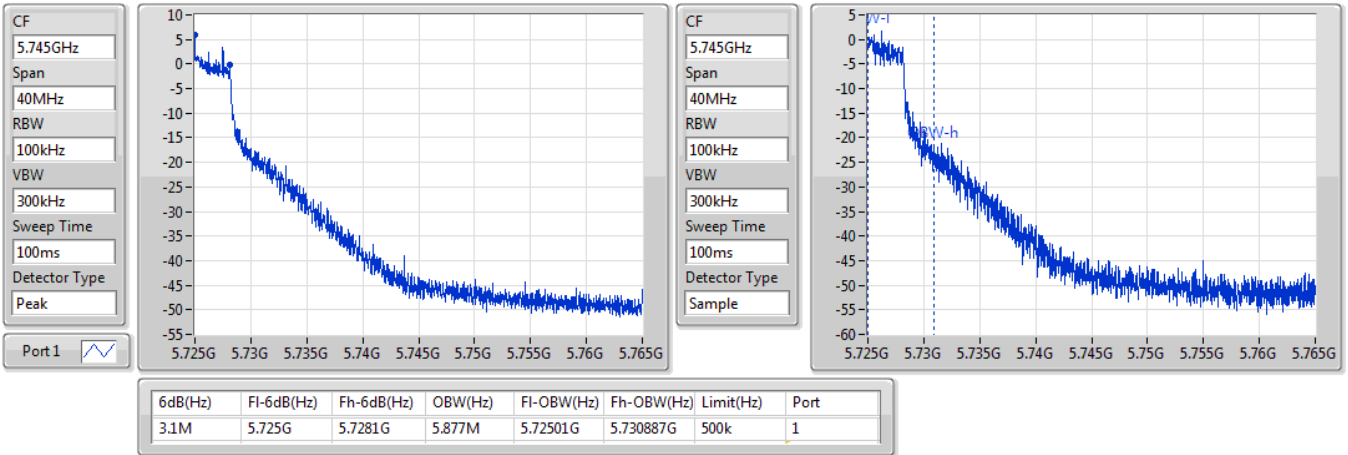

802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5720MHz Straddle 5.47-5.725GHz

16/08/2019

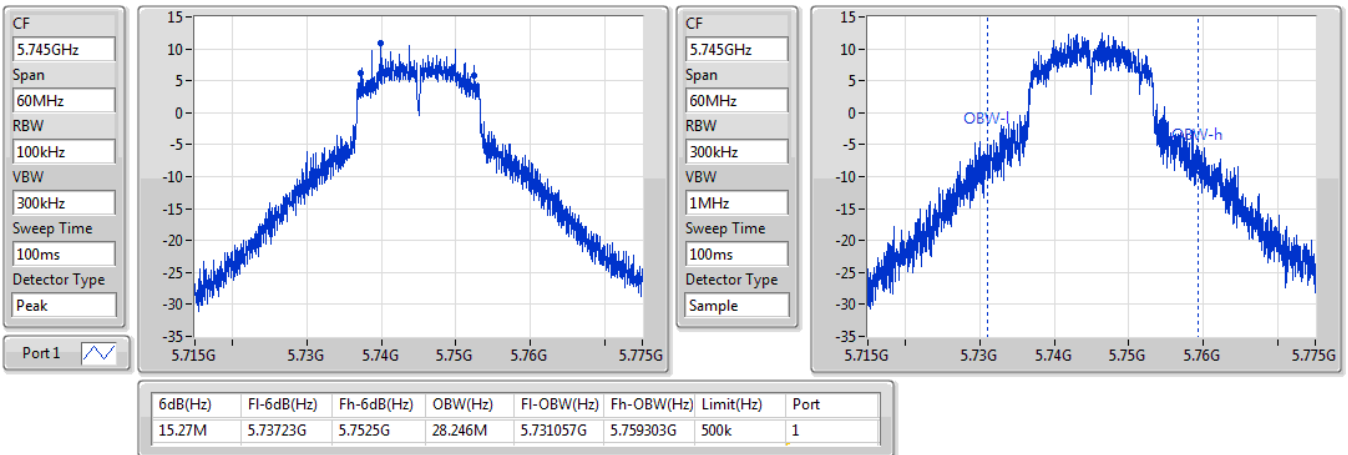


802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5720MHz Straddle 5.725-5.85GHz

16/08/2019

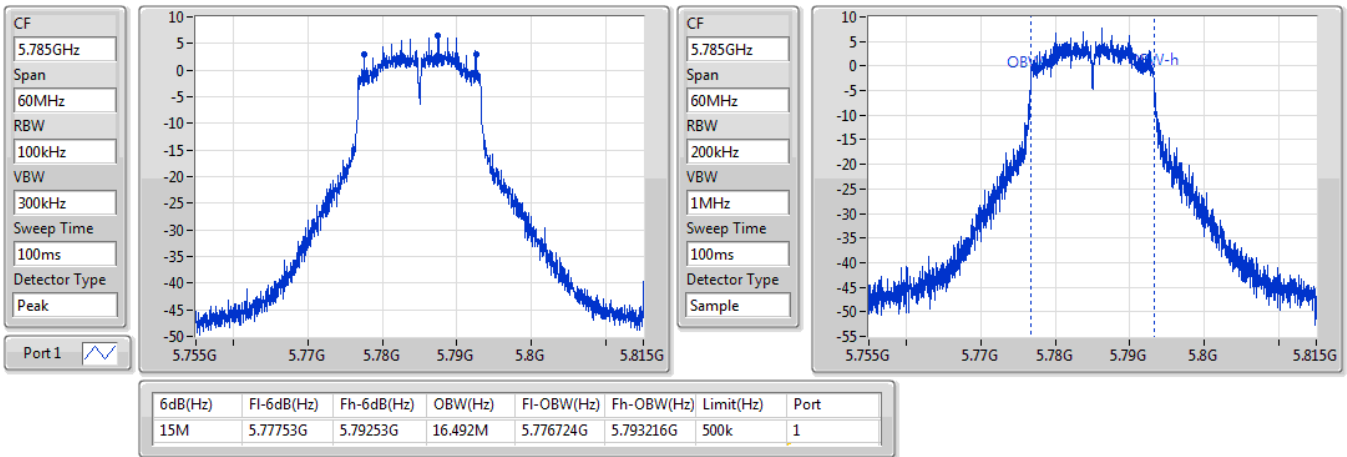

802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5745MHz

31/07/2019

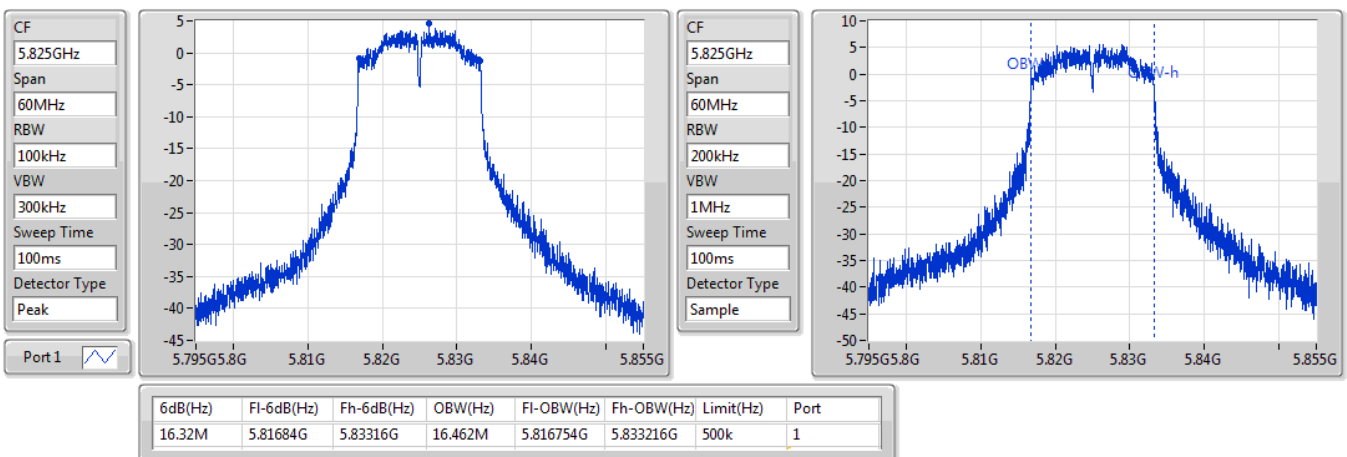


802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5785MHz

16/08/2019

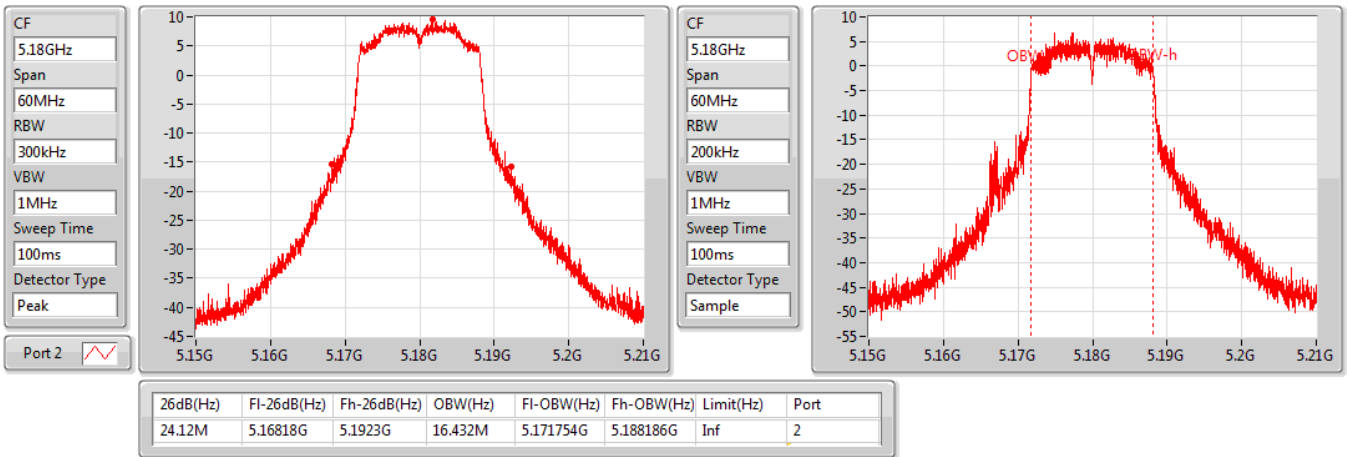

802.11a_Nss1,(6Mbps)_1TX(Port1)
EBW
5825MHz

16/08/2019

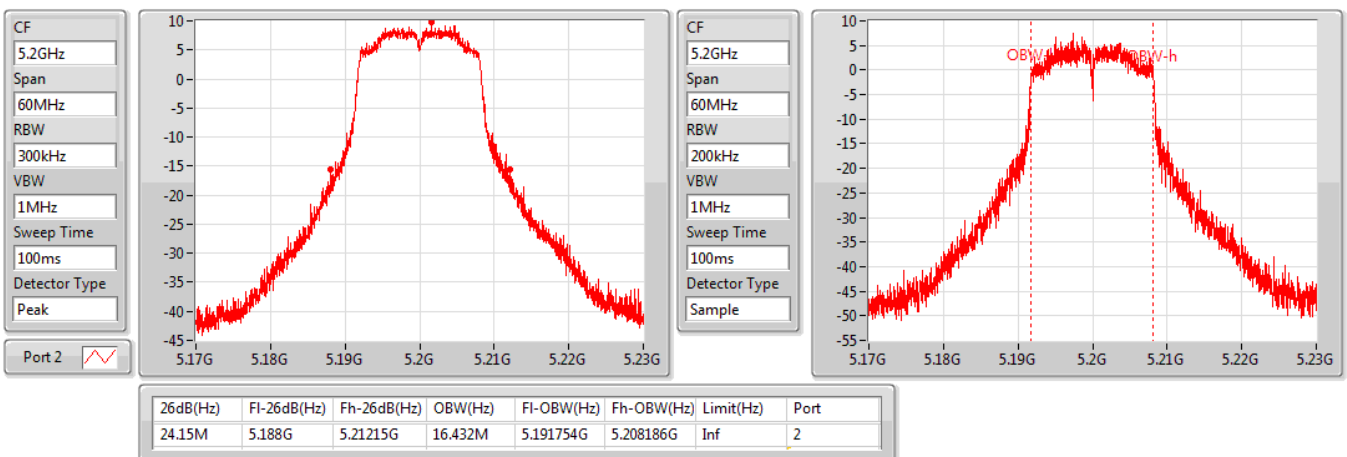


802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5180MHz

16/08/2019

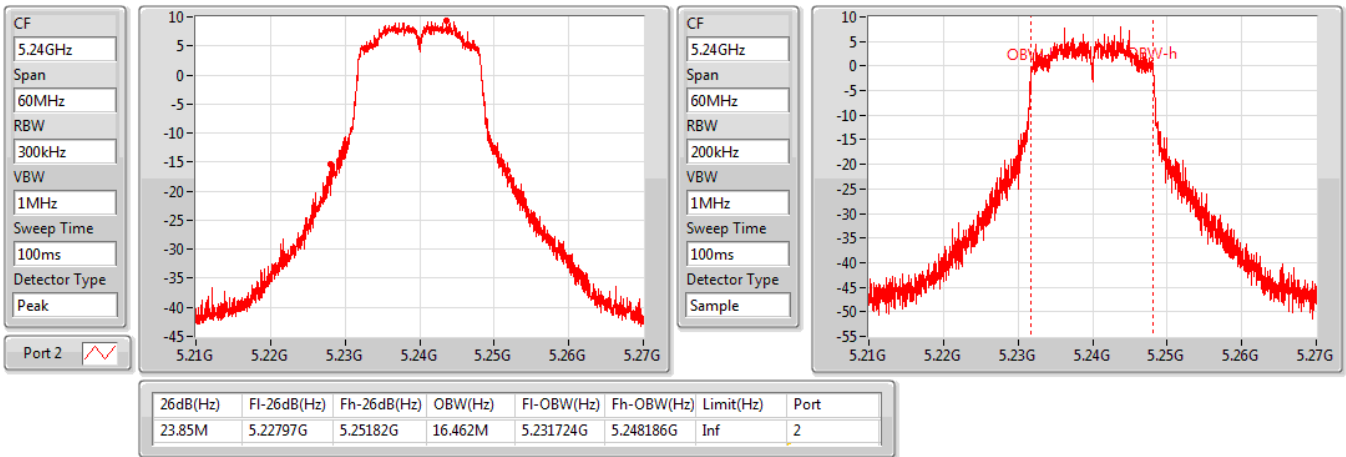

802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5200MHz

16/08/2019

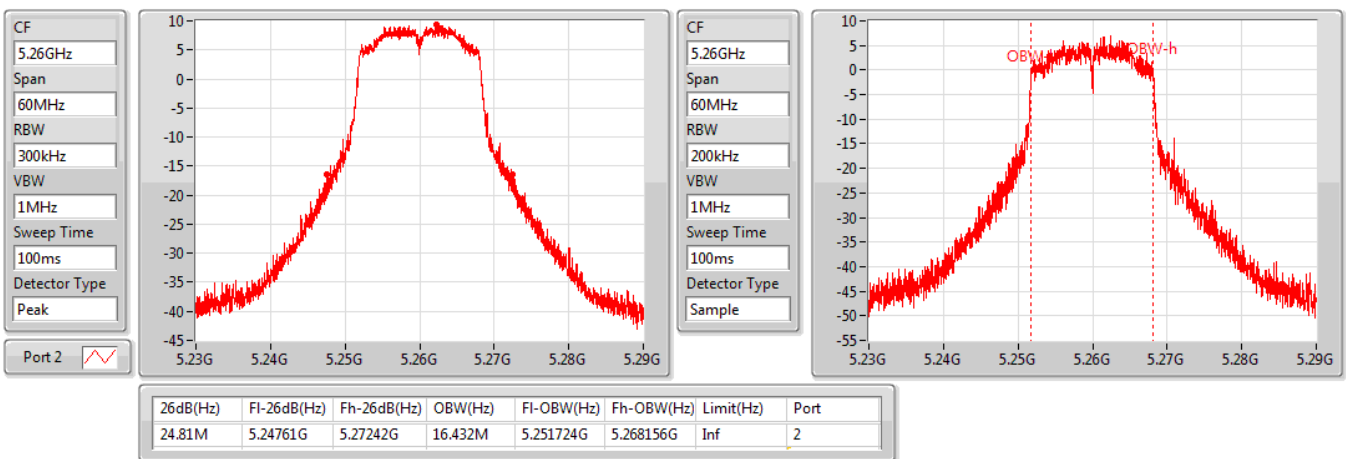


802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5240MHz

16/08/2019

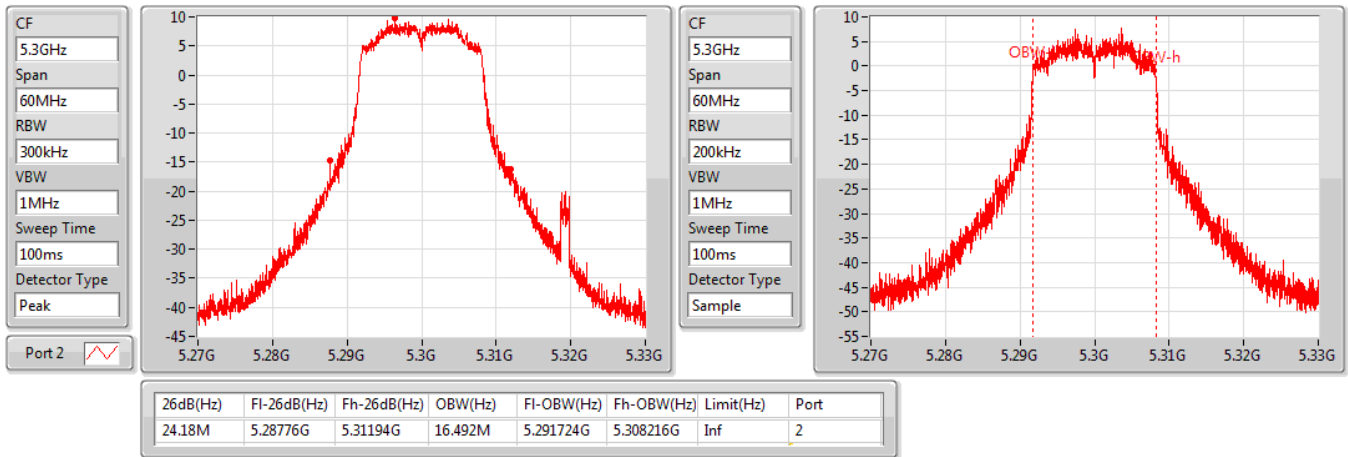

802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5260MHz

16/08/2019

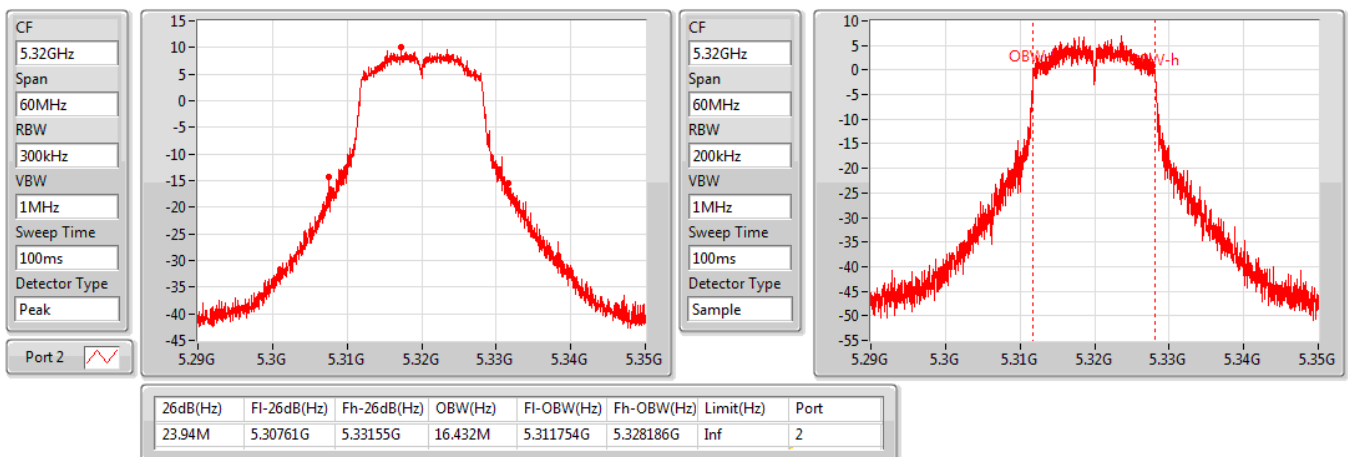


802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5300MHz

16/08/2019

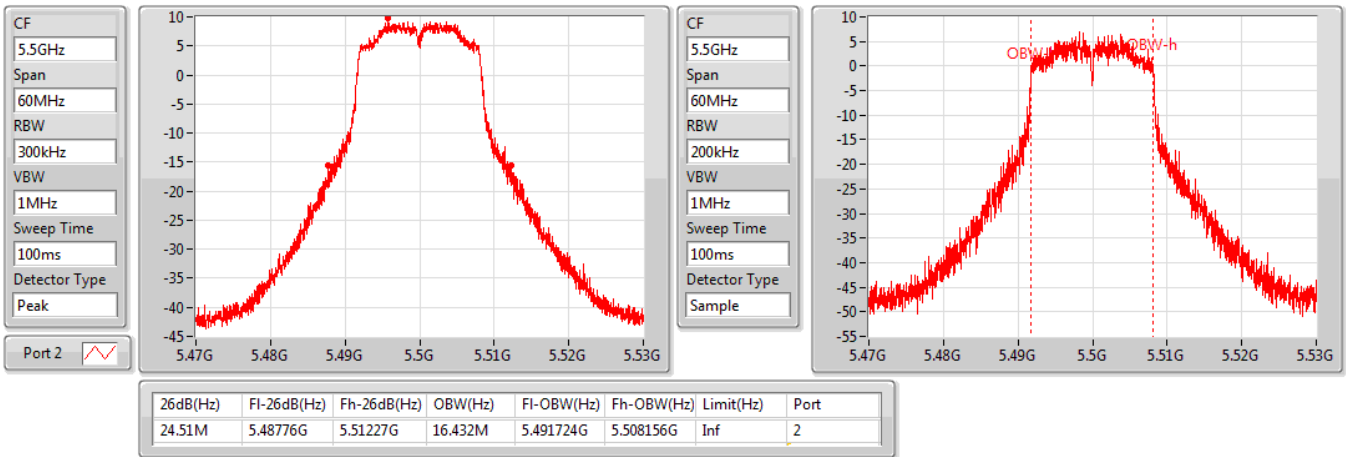

802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5320MHz

16/08/2019

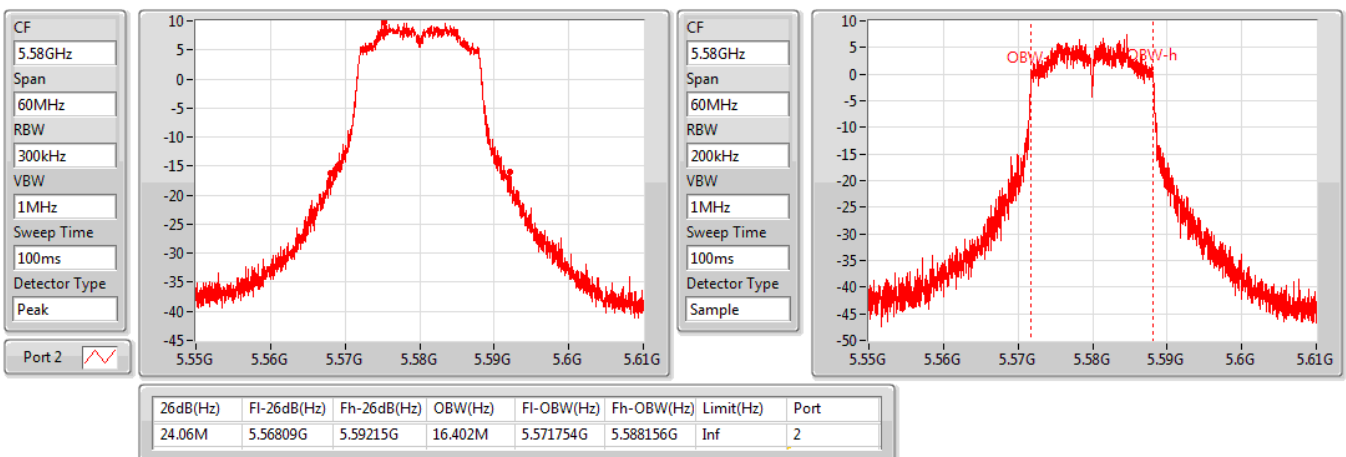


802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5500MHz

16/08/2019

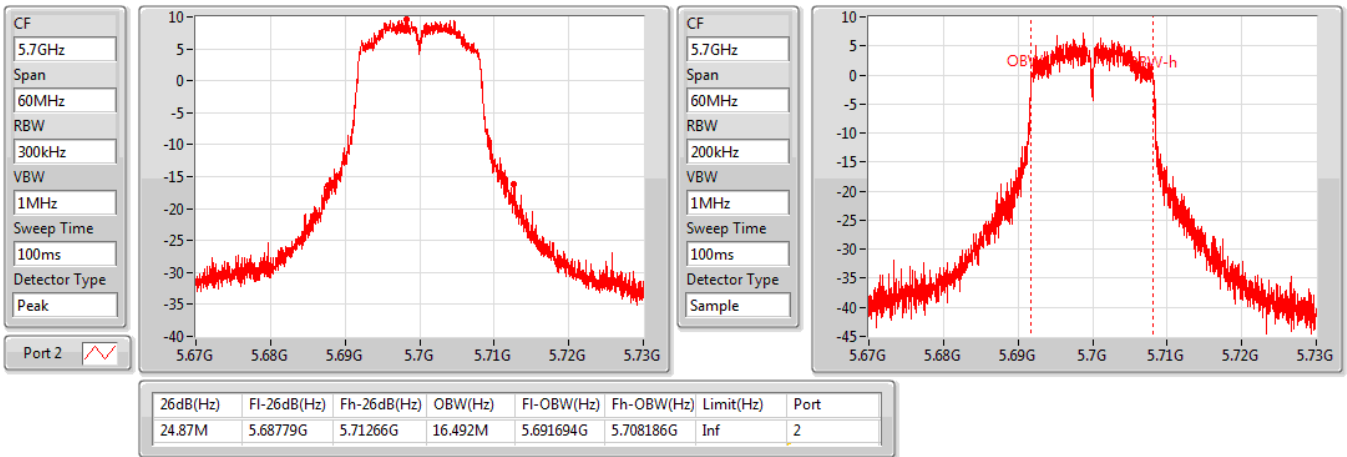

802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5580MHz

16/08/2019

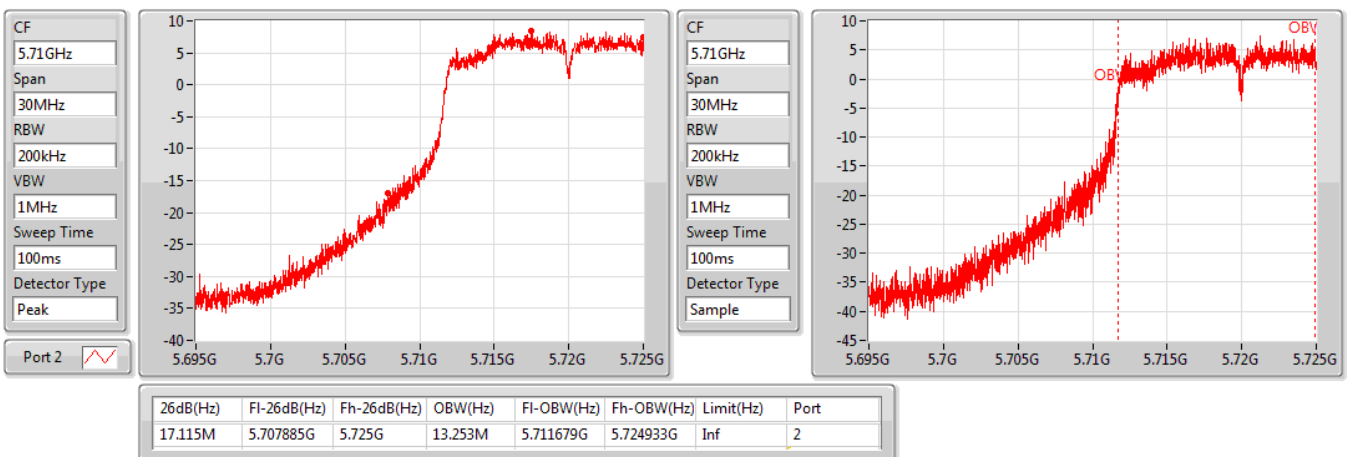


802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5700MHz

31/07/2019

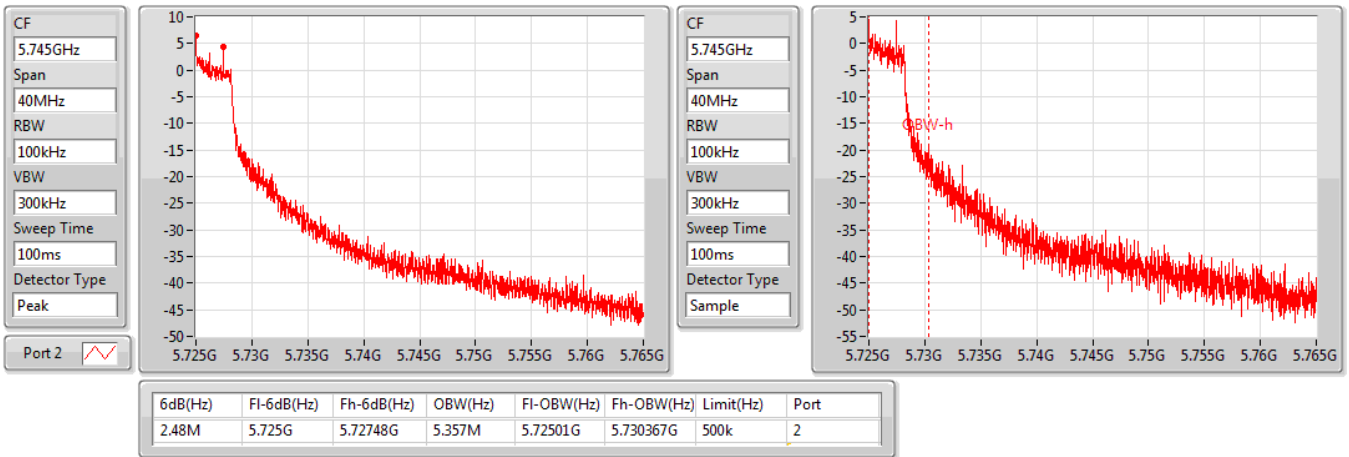

802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5720MHz Straddle 5.47-5.725GHz

16/08/2019

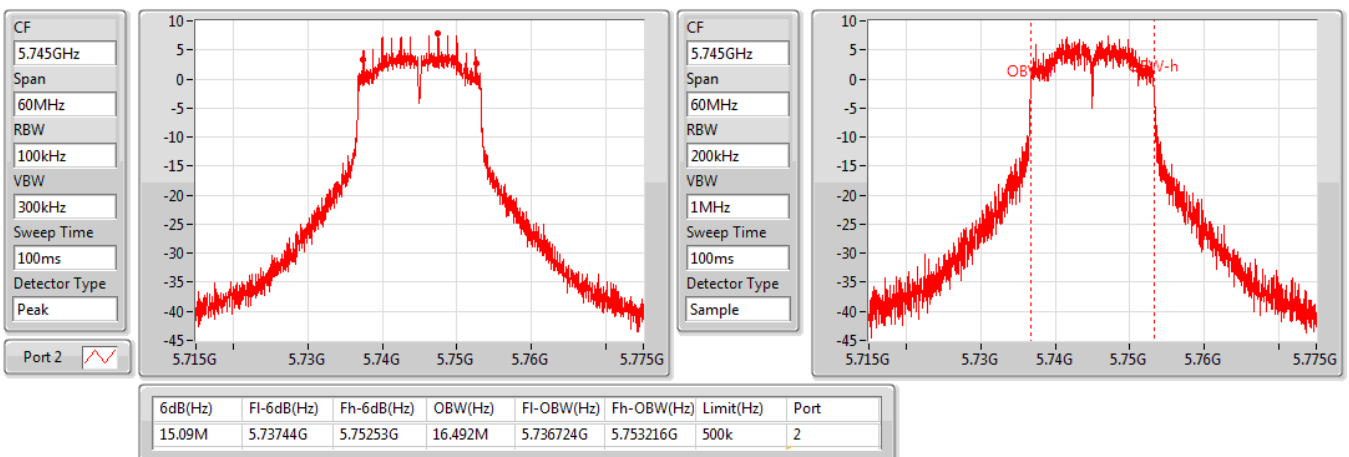


802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5720MHz Straddle 5.725-5.85GHz

16/08/2019

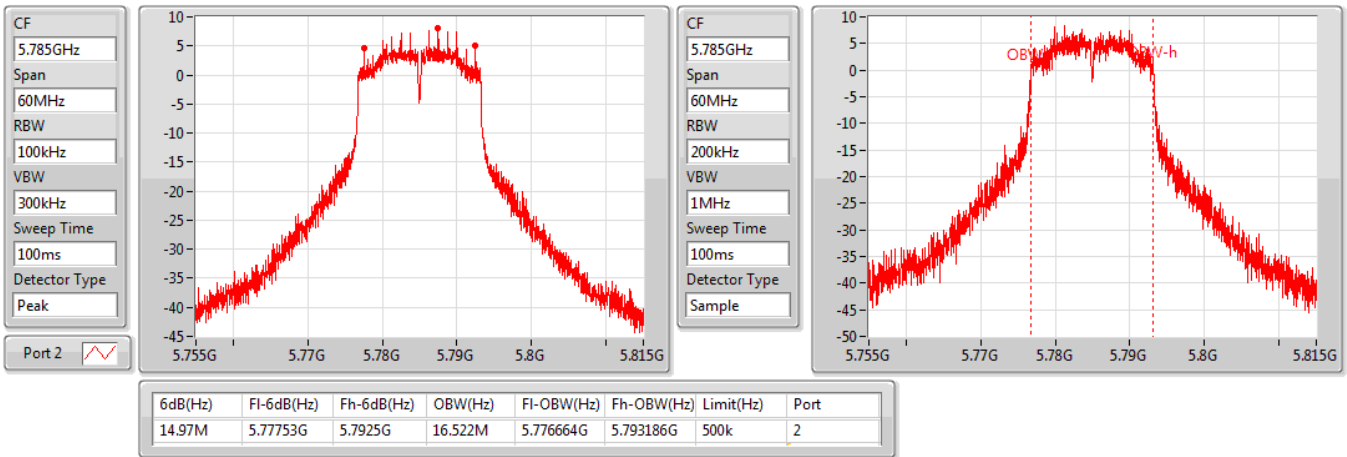

802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5745MHz

16/08/2019

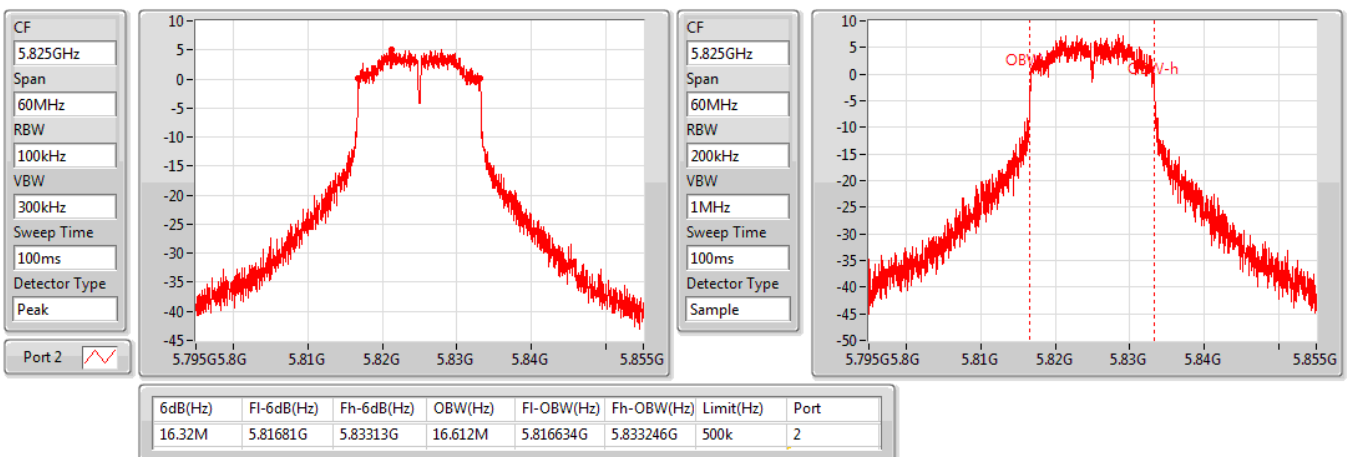


802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5785MHz

16/08/2019

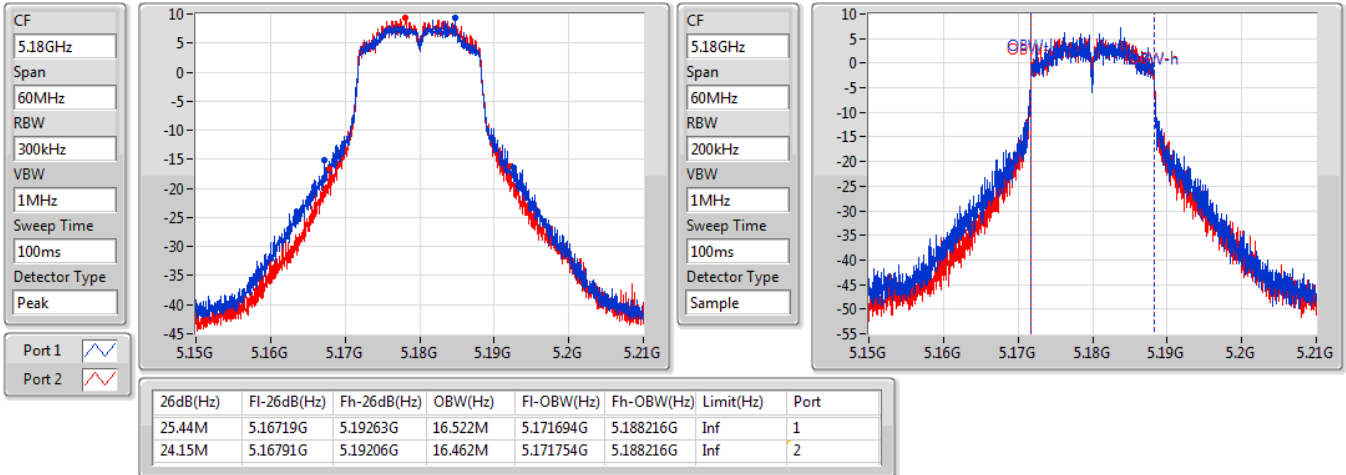

802.11a_Nss1,(6Mbps)_1TX(Port2)
EBW
5825MHz

16/08/2019

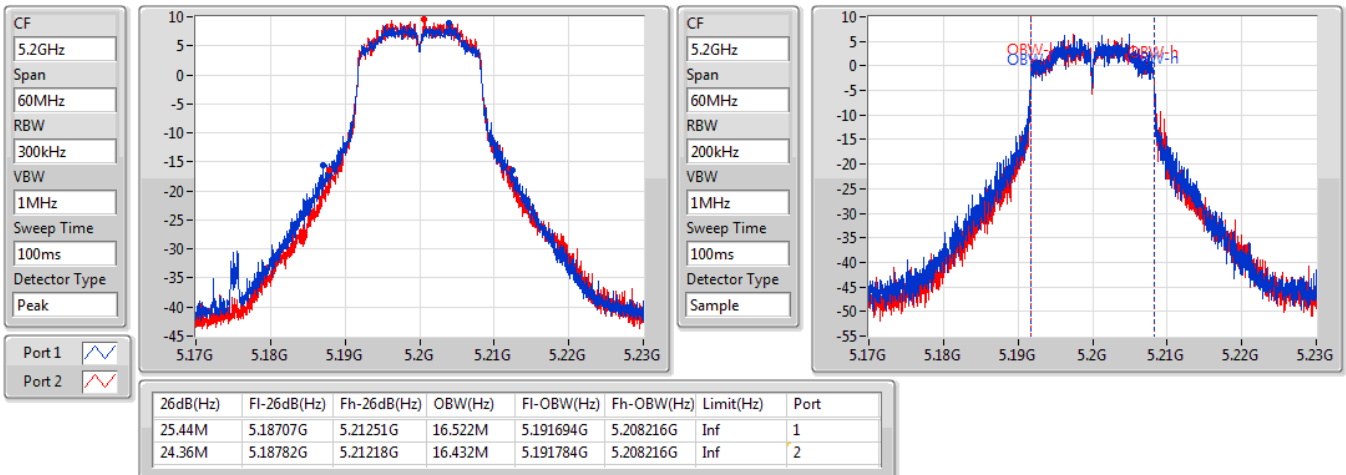


802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

16/08/2019

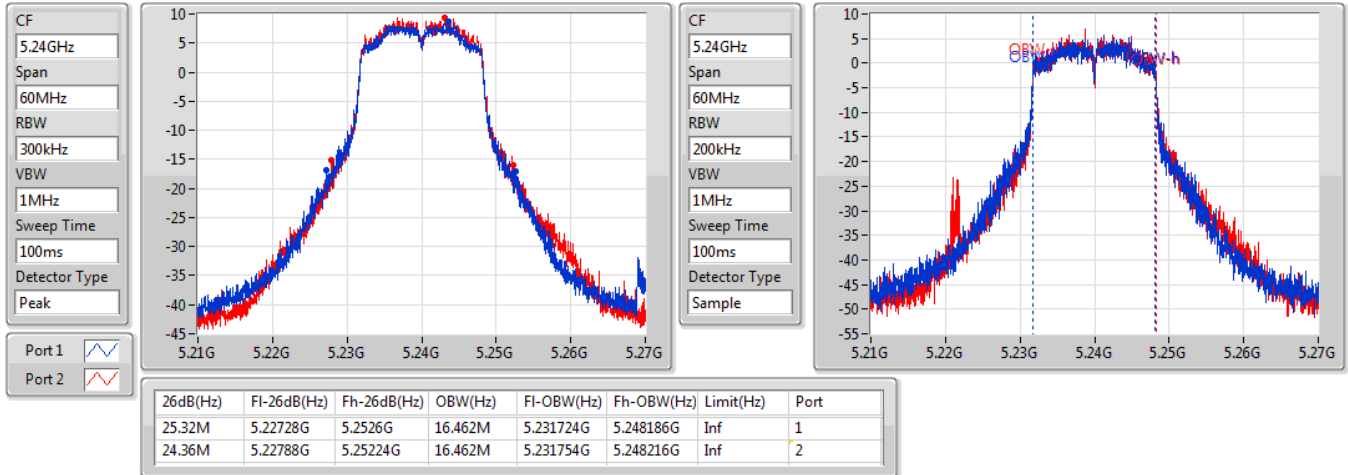

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

16/08/2019

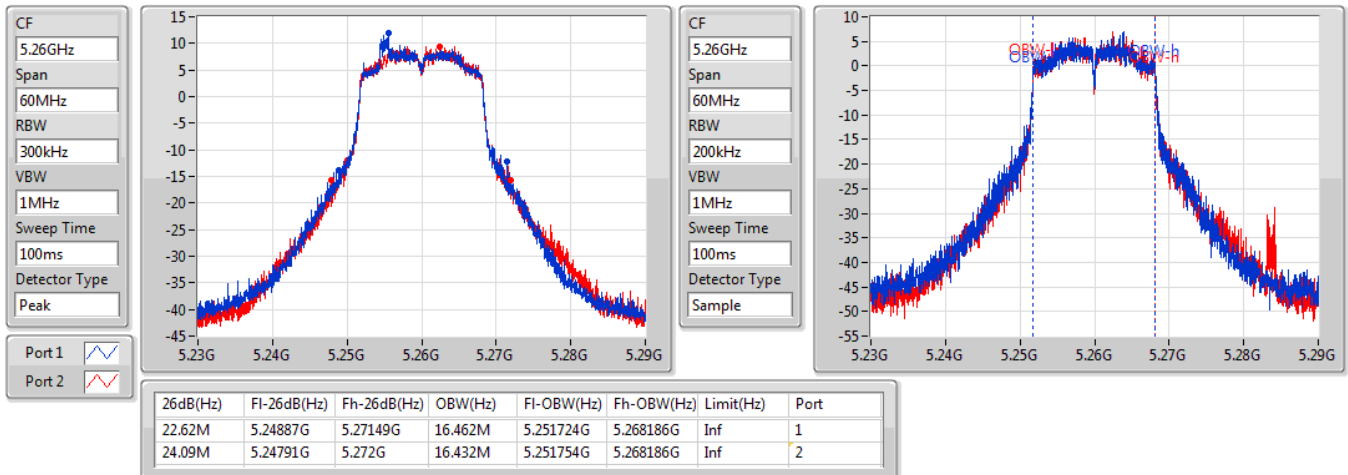


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

16/08/2019

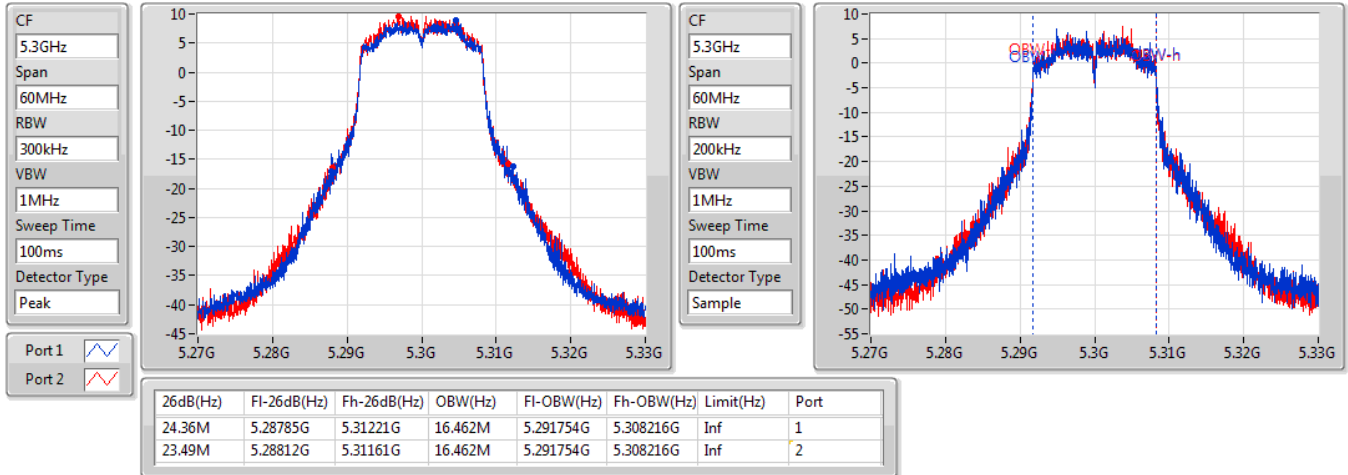

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

16/08/2019

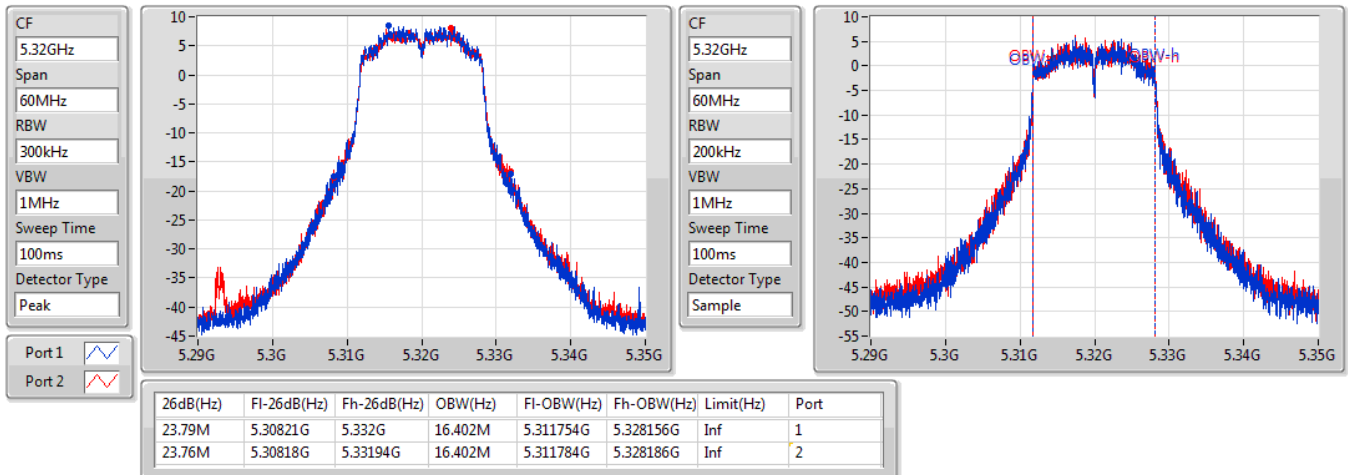


802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

16/08/2019

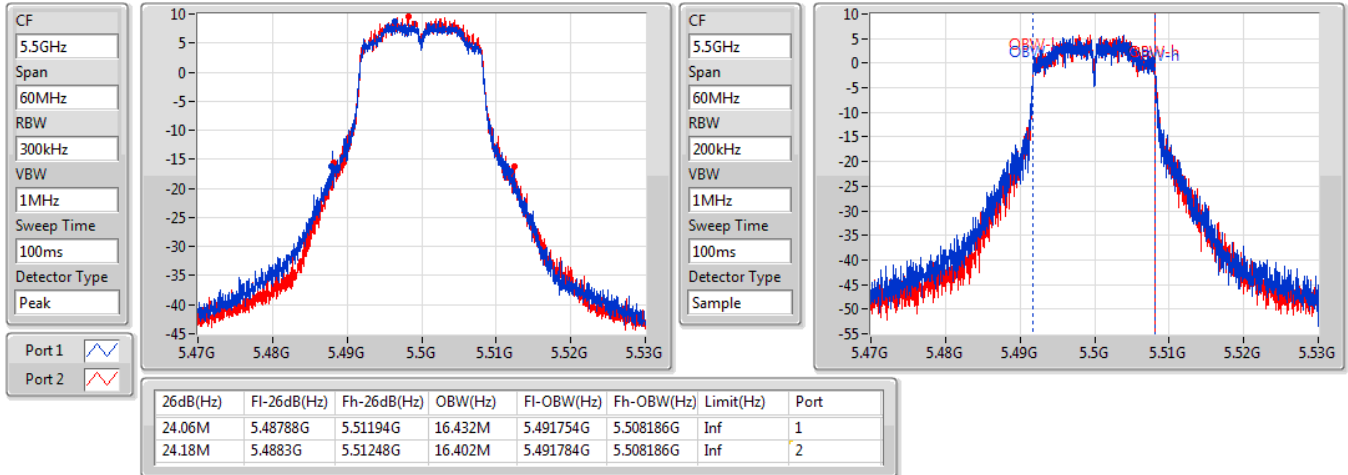

802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

15/07/2019

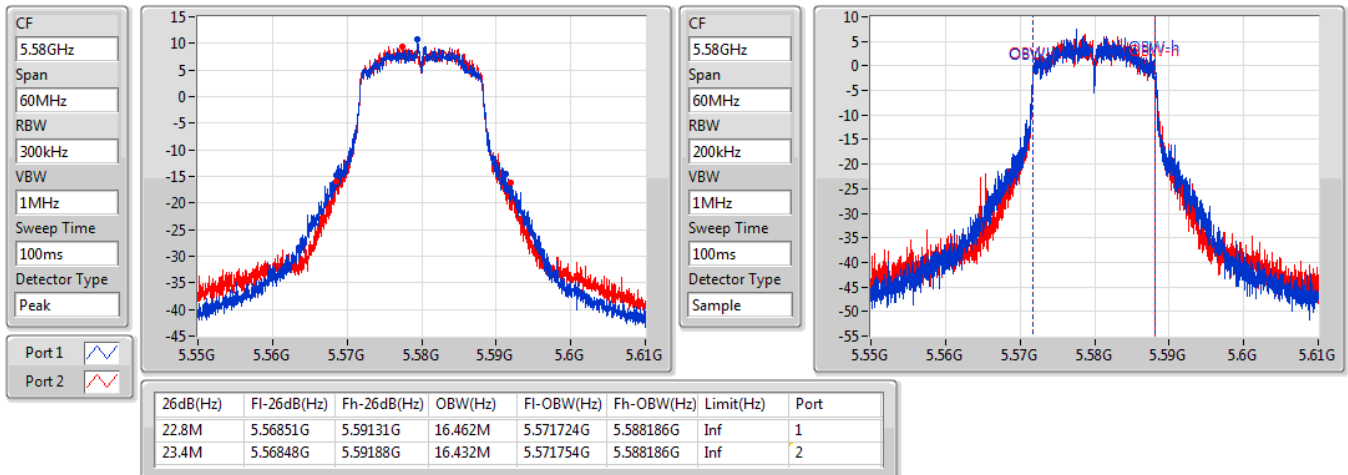


802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

16/08/2019

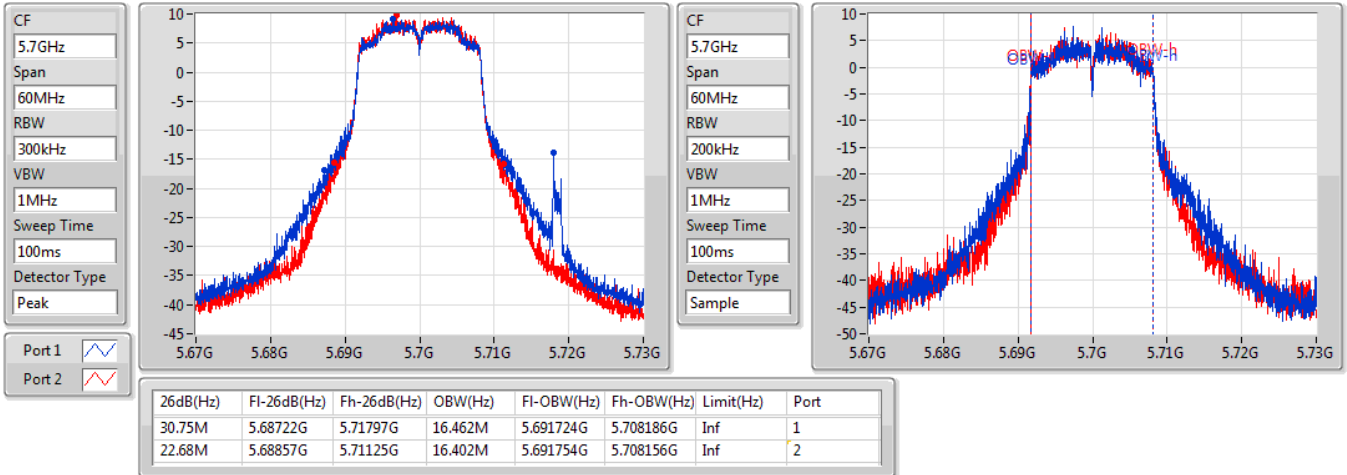

802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

16/08/2019

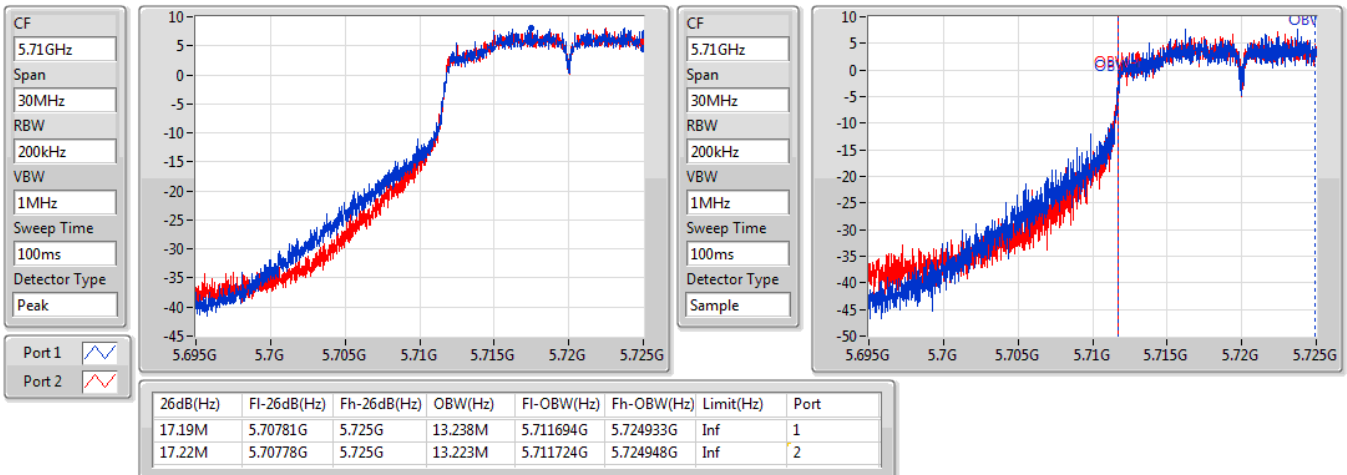


802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

16/08/2019

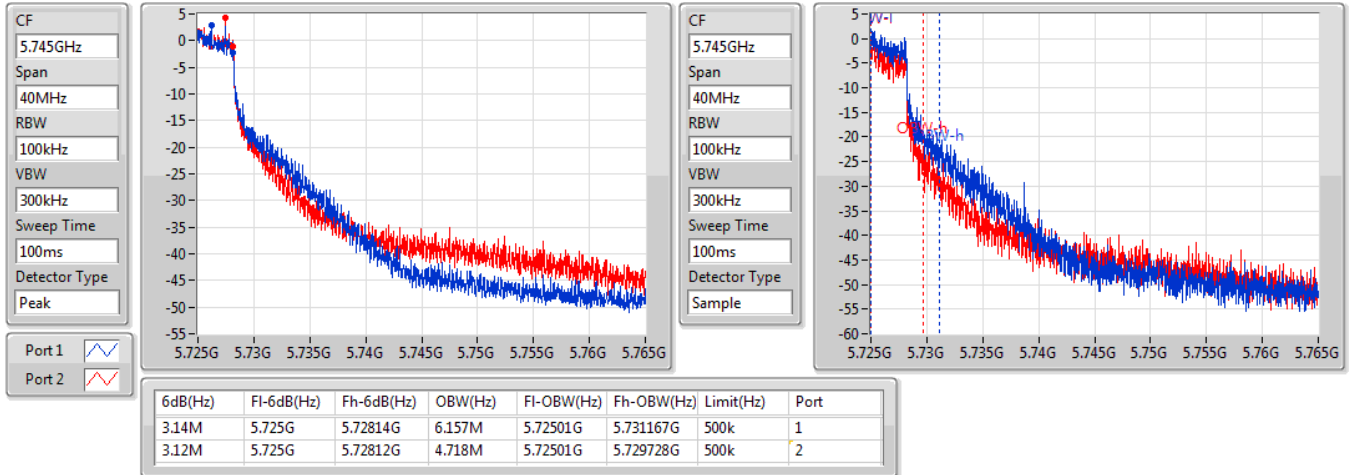

802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

16/08/2019

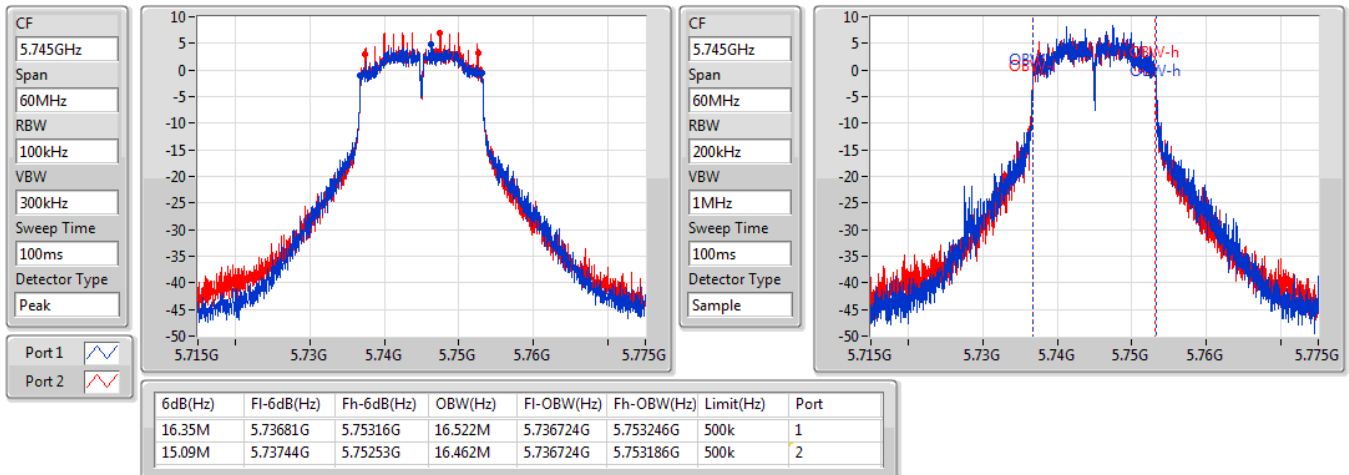


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

16/08/2019

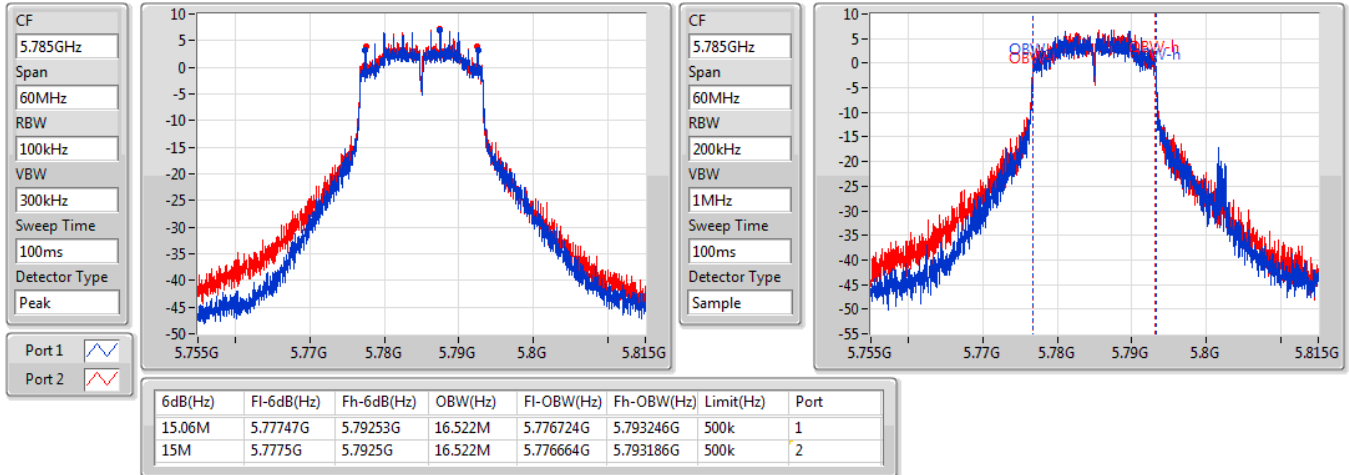

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

16/08/2019

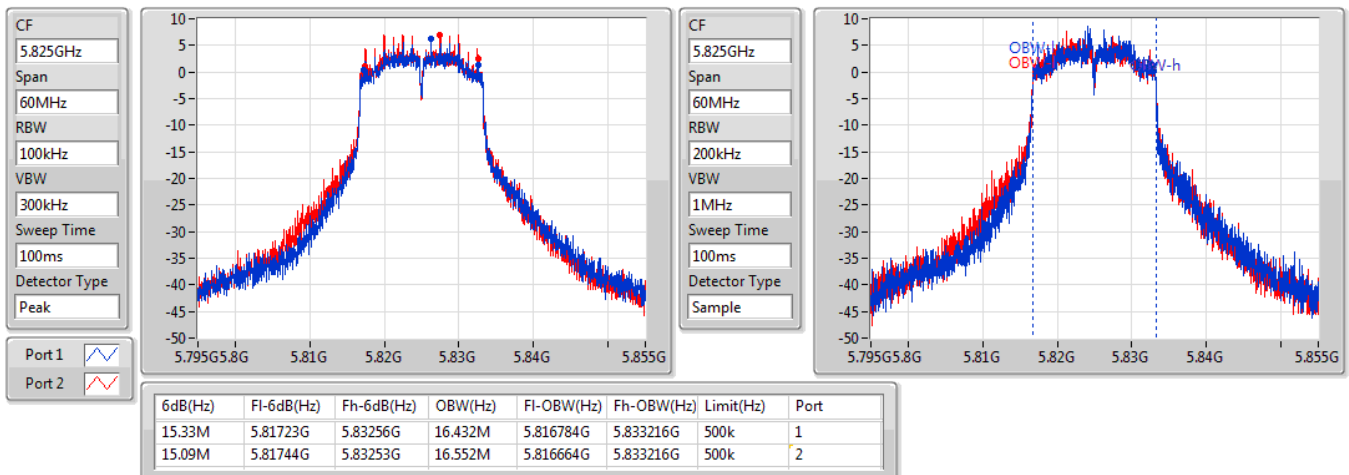


802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

16/08/2019

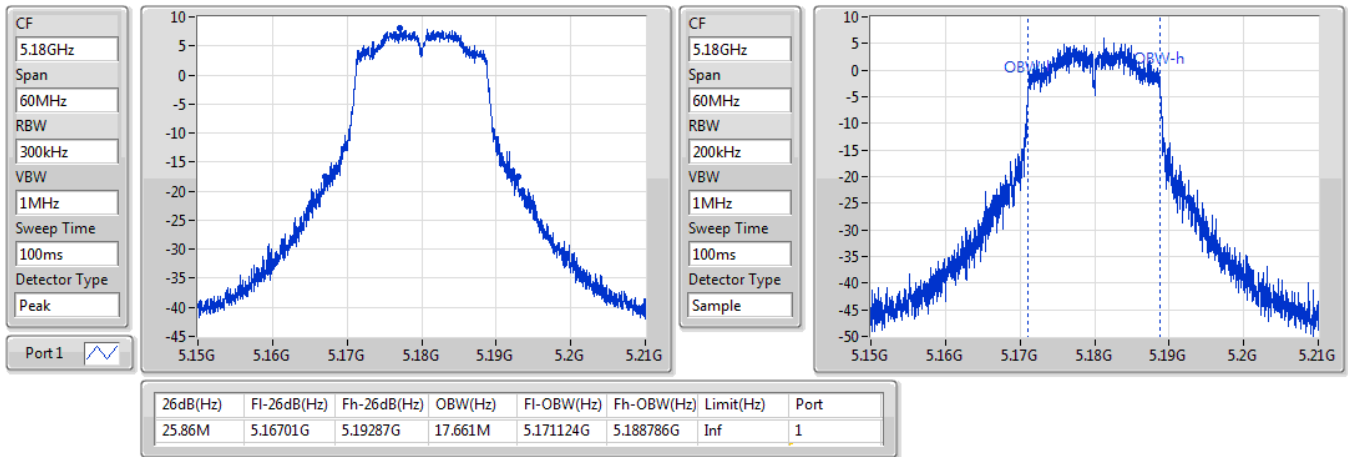

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

16/08/2019

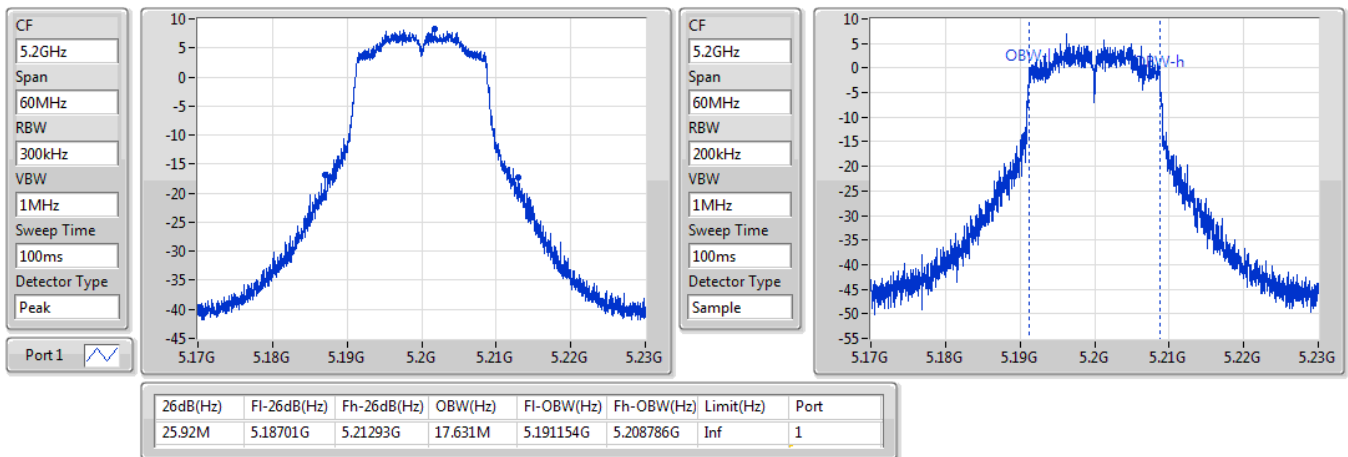


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5180MHz

16/08/2019

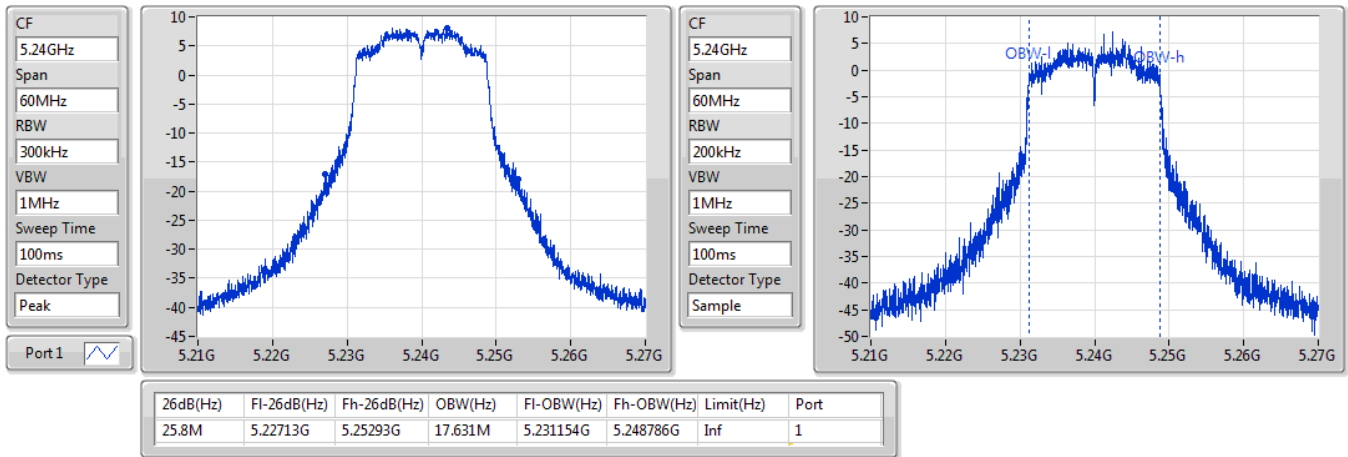

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5200MHz

16/08/2019

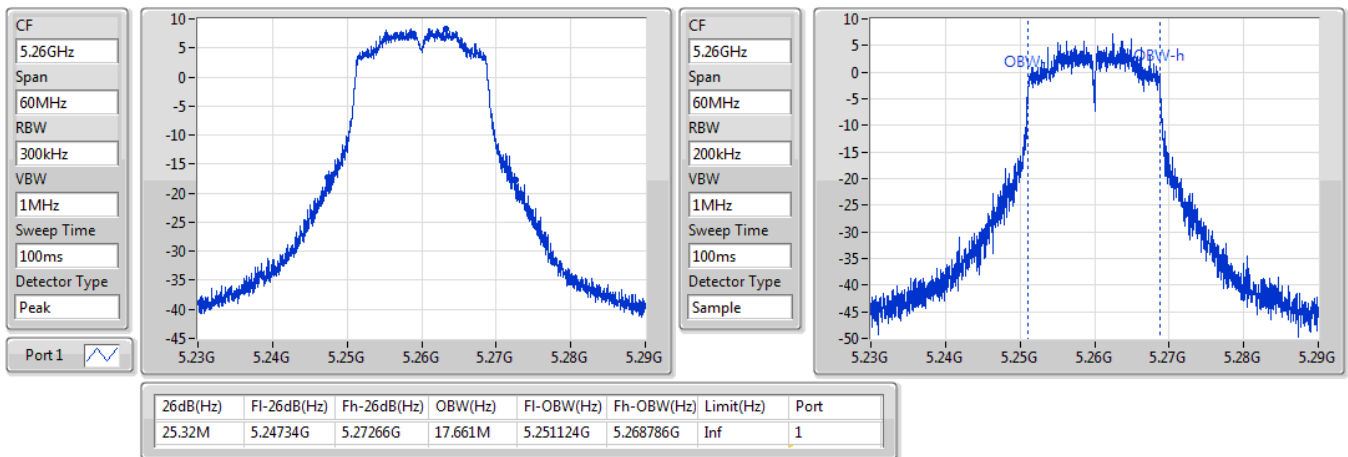


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5240MHz

16/08/2019

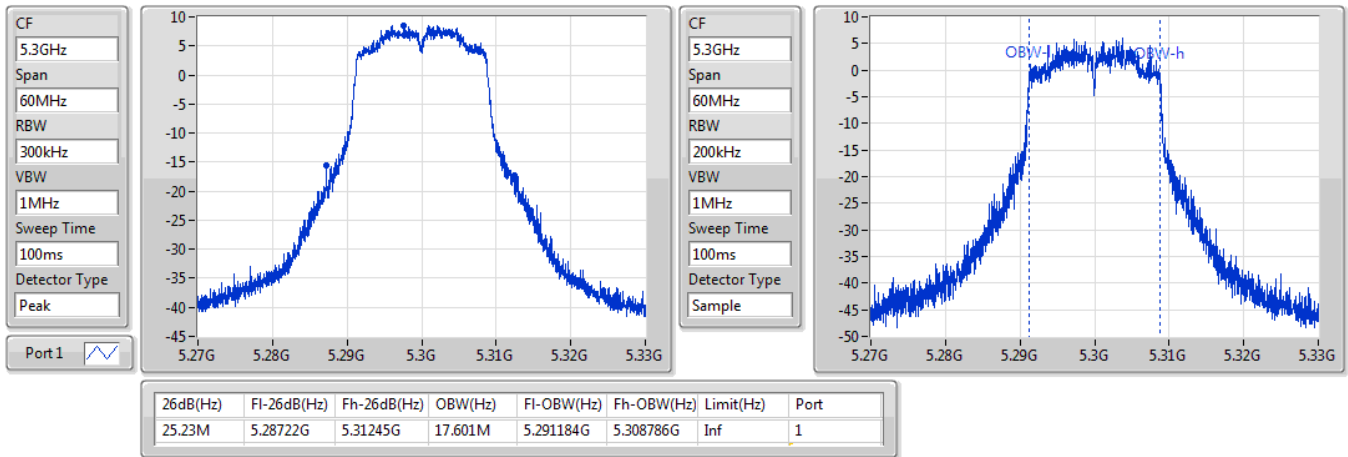

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5260MHz

16/08/2019

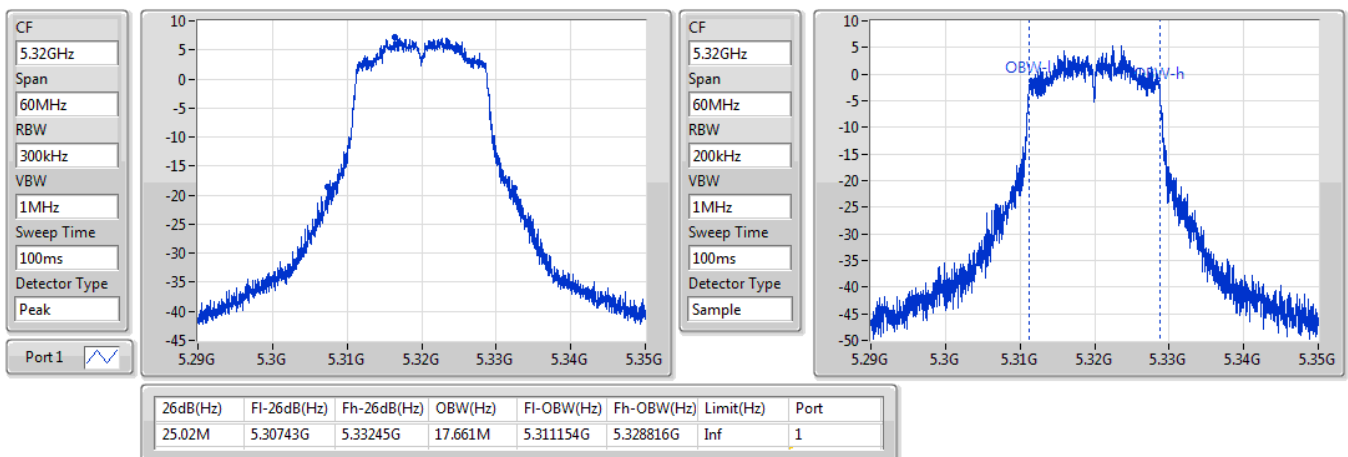


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5300MHz

16/08/2019

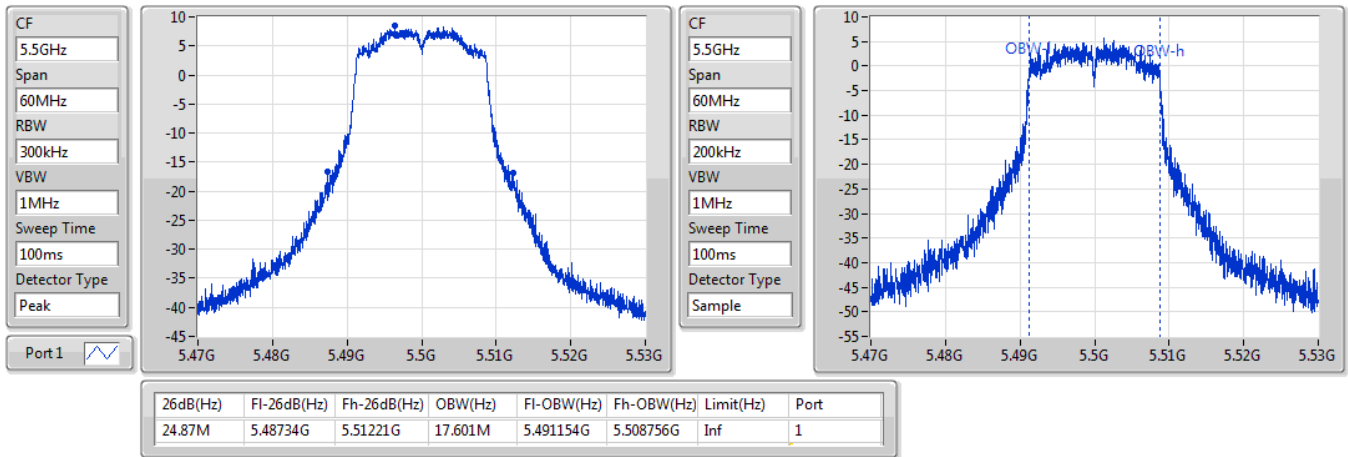

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5320MHz

16/08/2019

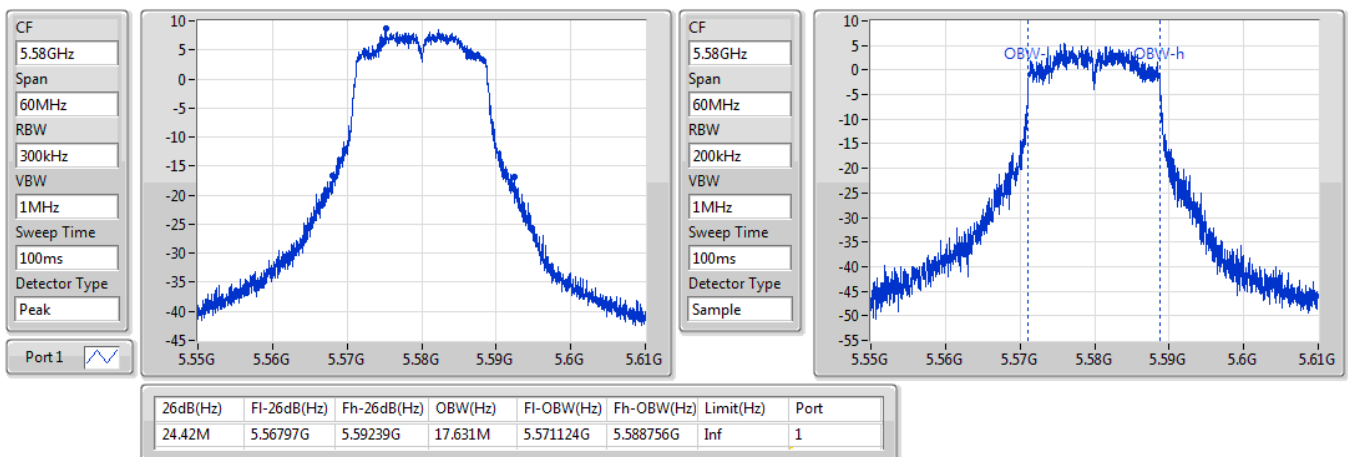


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5500MHz

16/08/2019

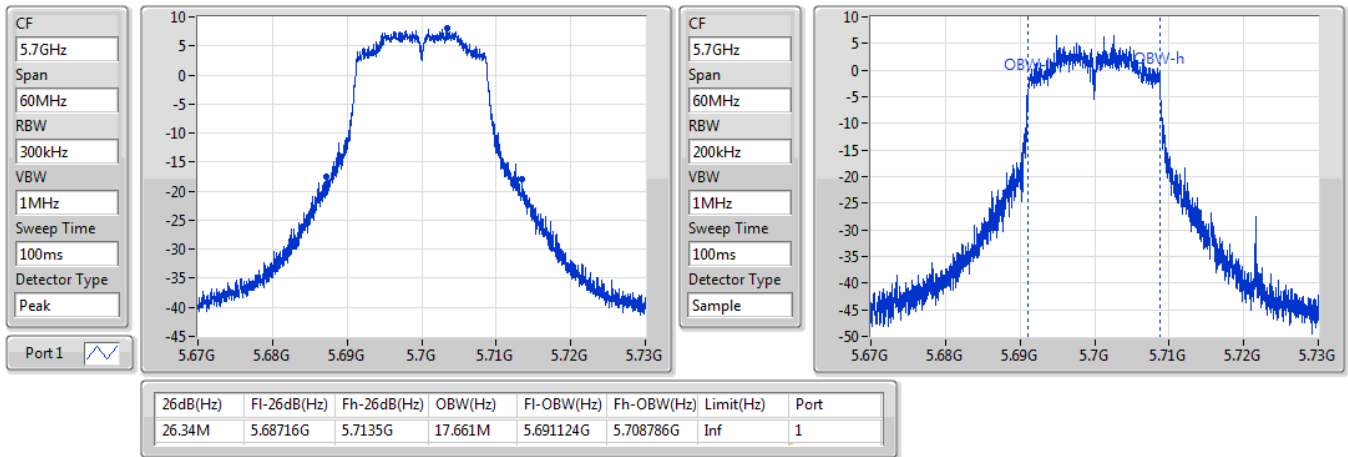

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5580MHz

16/08/2019

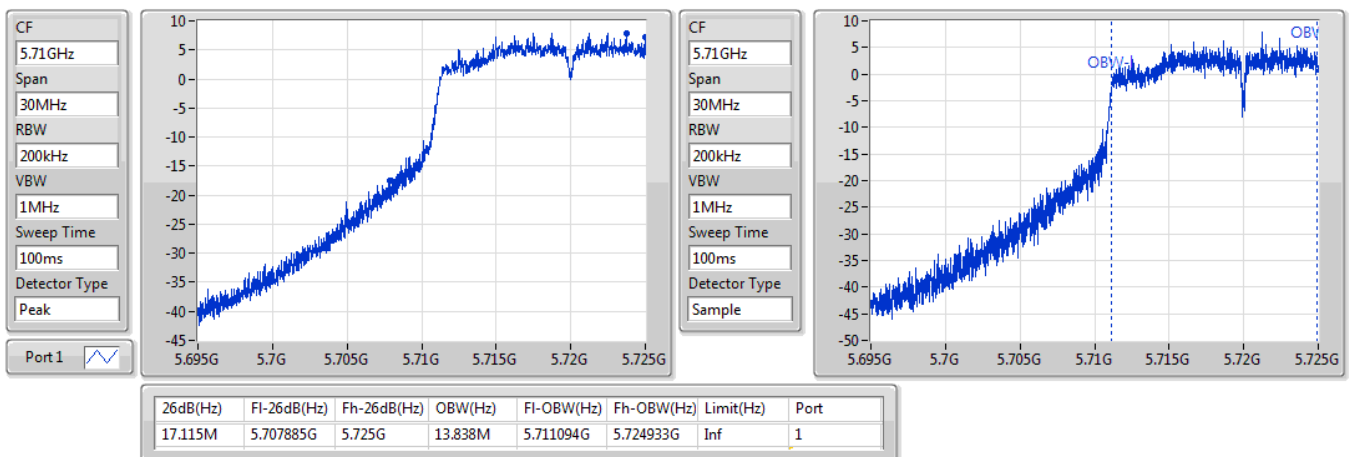


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5700MHz

16/08/2019

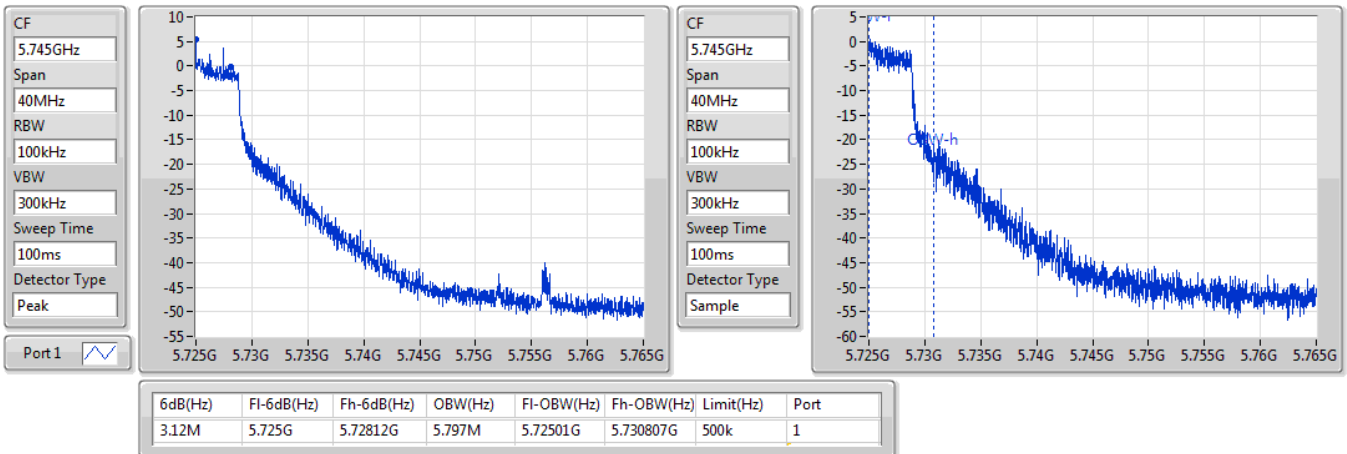

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5720MHz Straddle 5.47-5.725GHz

16/08/2019

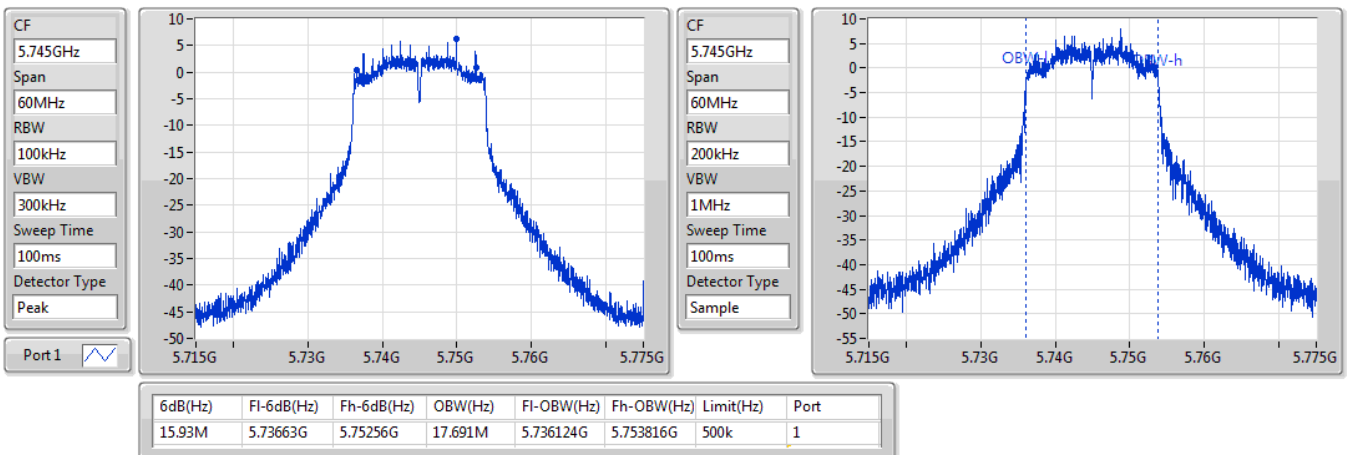


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5720MHz Straddle 5.725-5.85GHz

16/08/2019

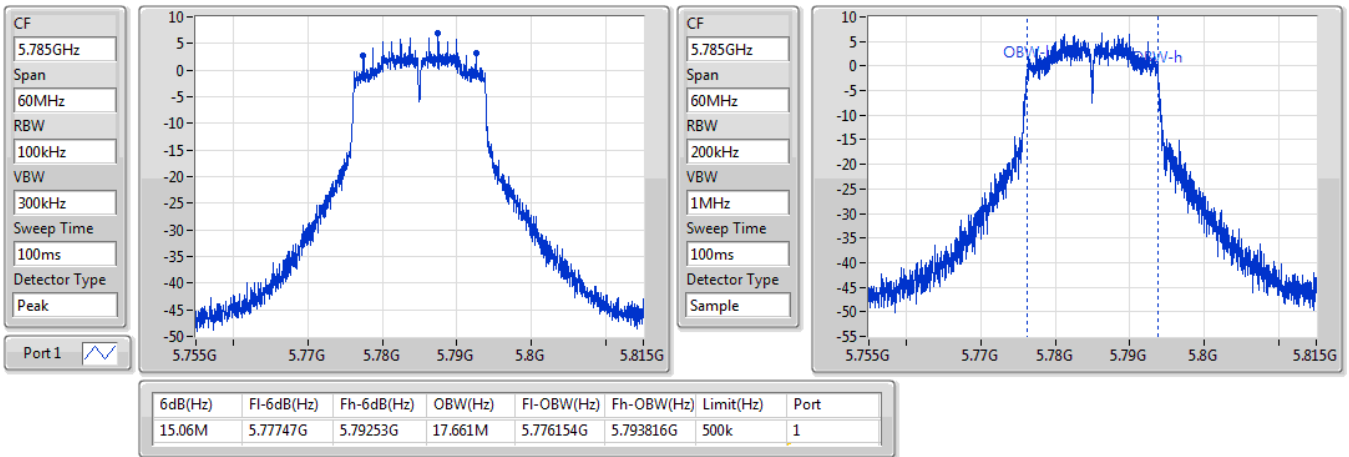

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5745MHz

16/08/2019

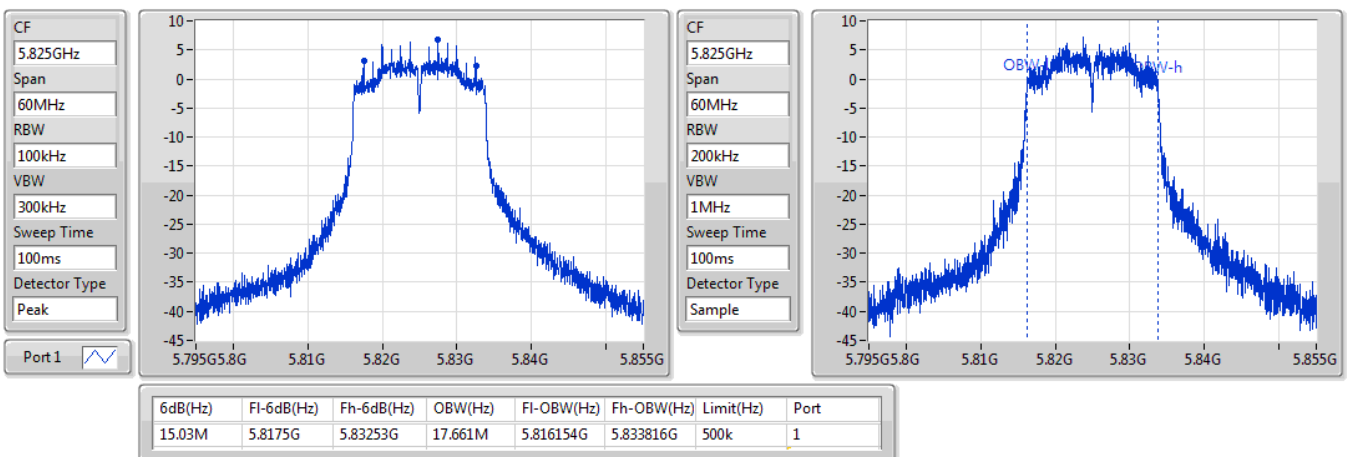


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5785MHz

16/08/2019

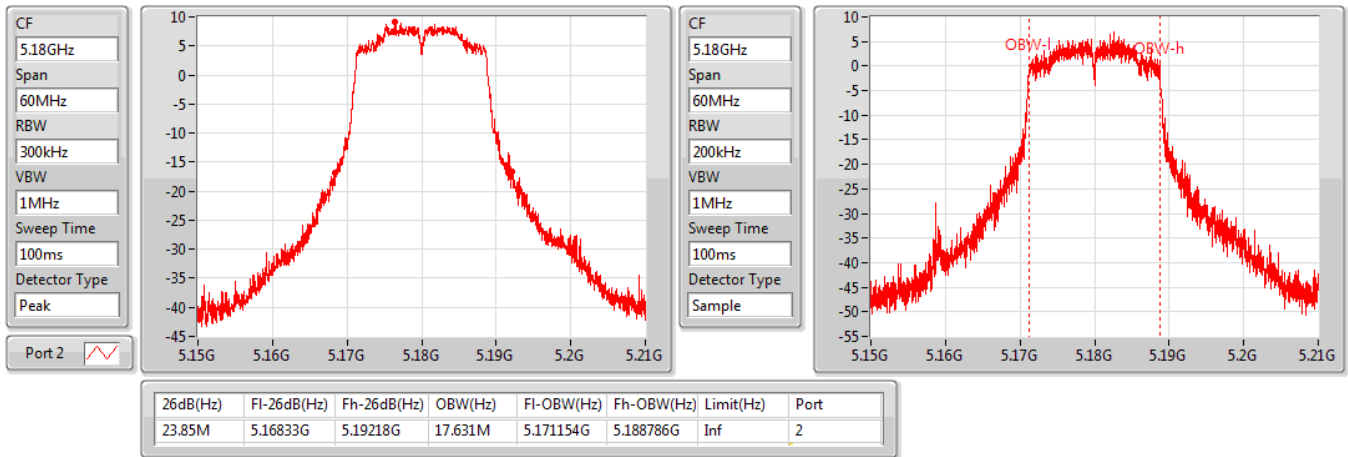

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)
EBW
5825MHz

16/08/2019

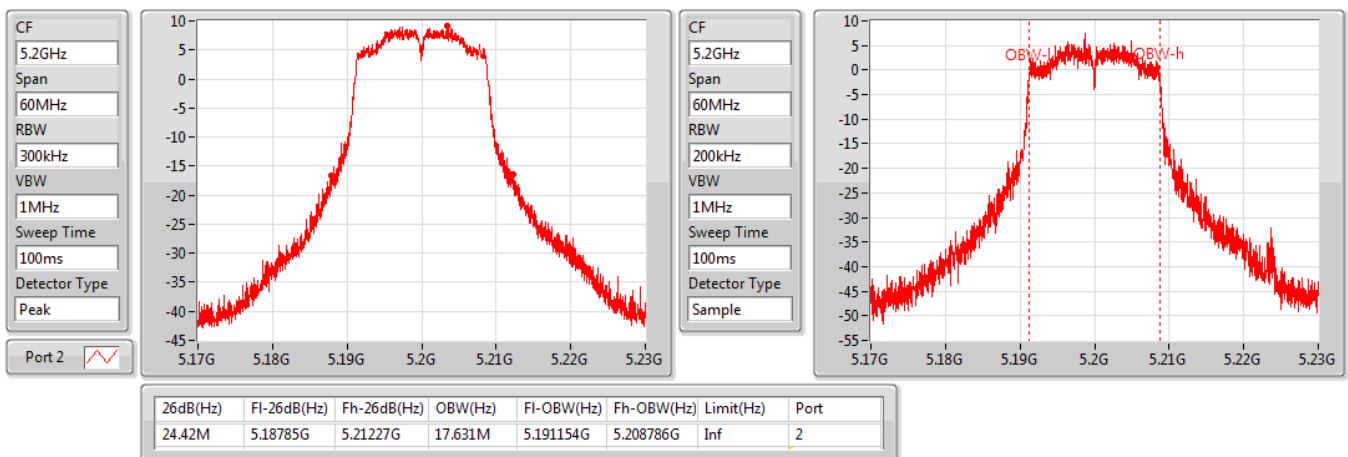


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5180MHz

16/08/2019

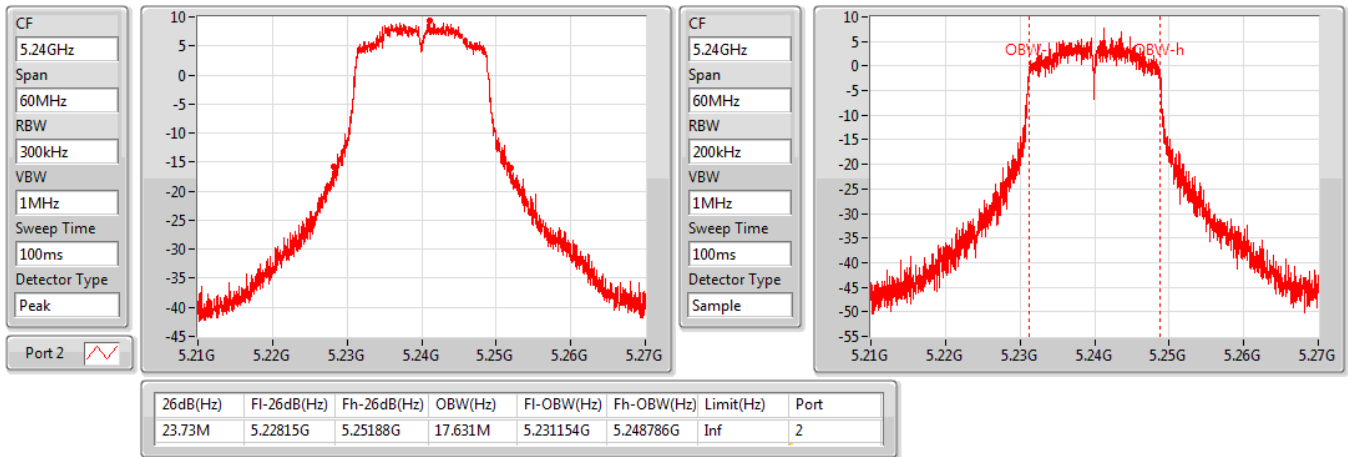

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5200MHz

16/08/2019

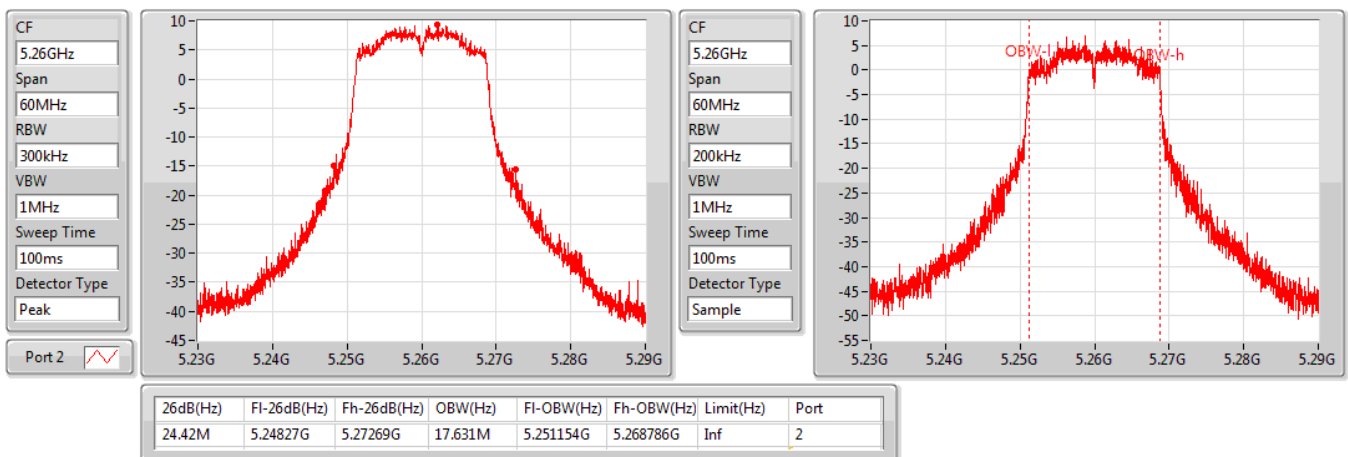


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5240MHz

16/08/2019

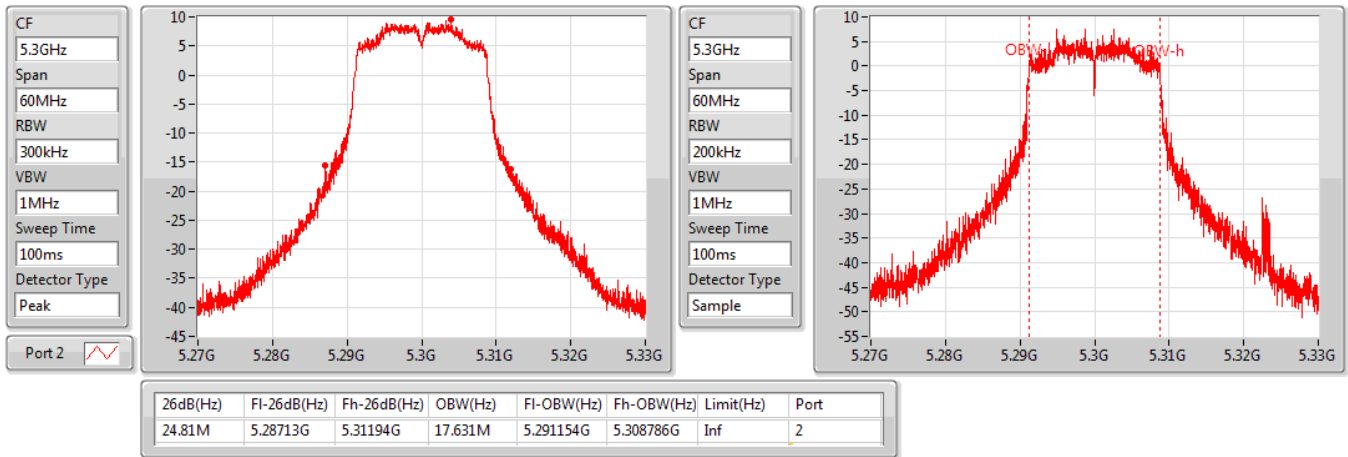

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5260MHz

16/08/2019

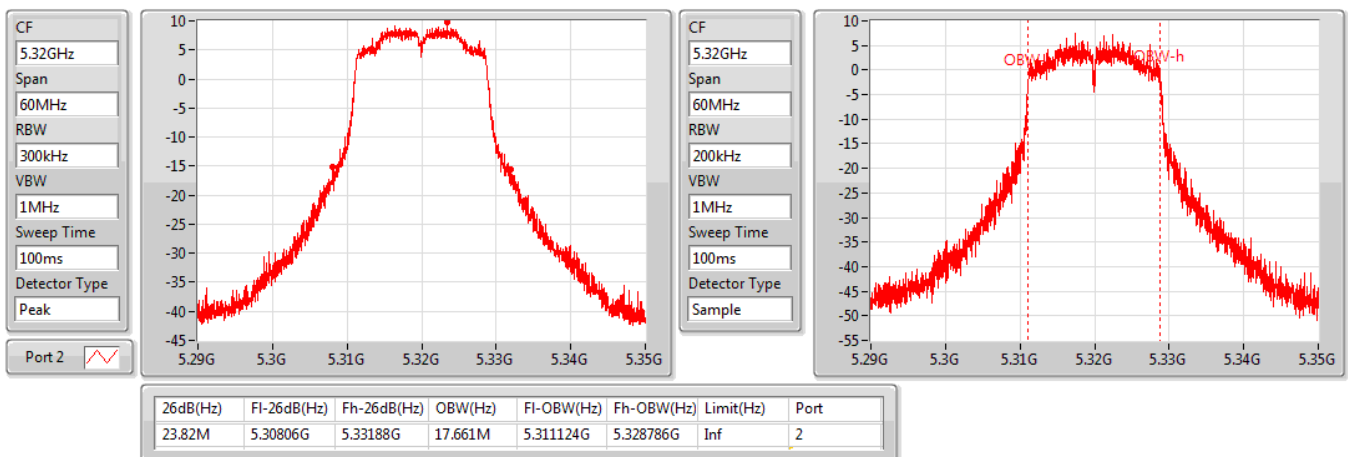


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5300MHz

16/08/2019

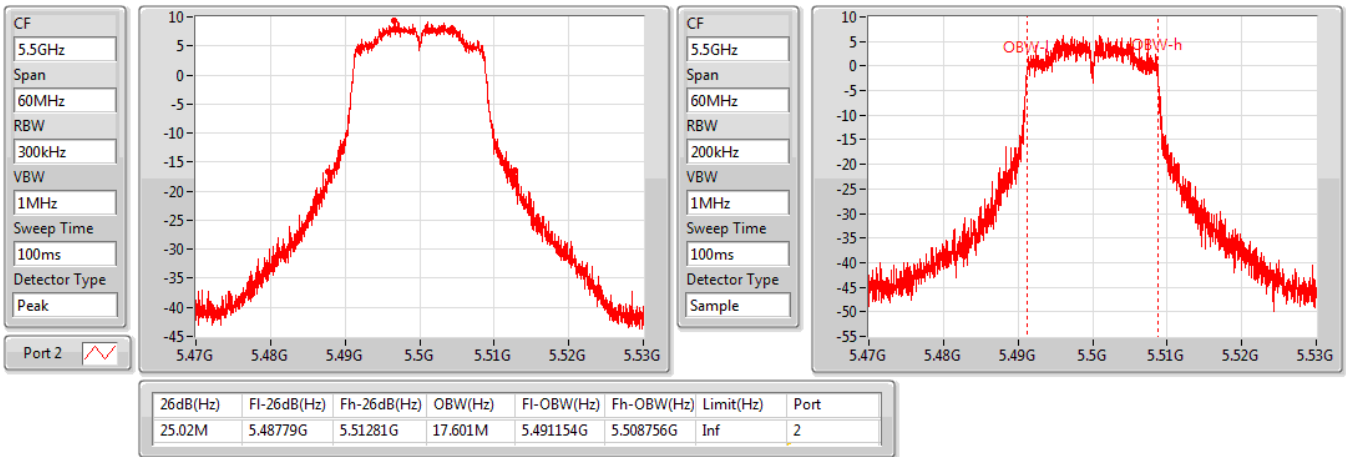

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5320MHz

16/08/2019

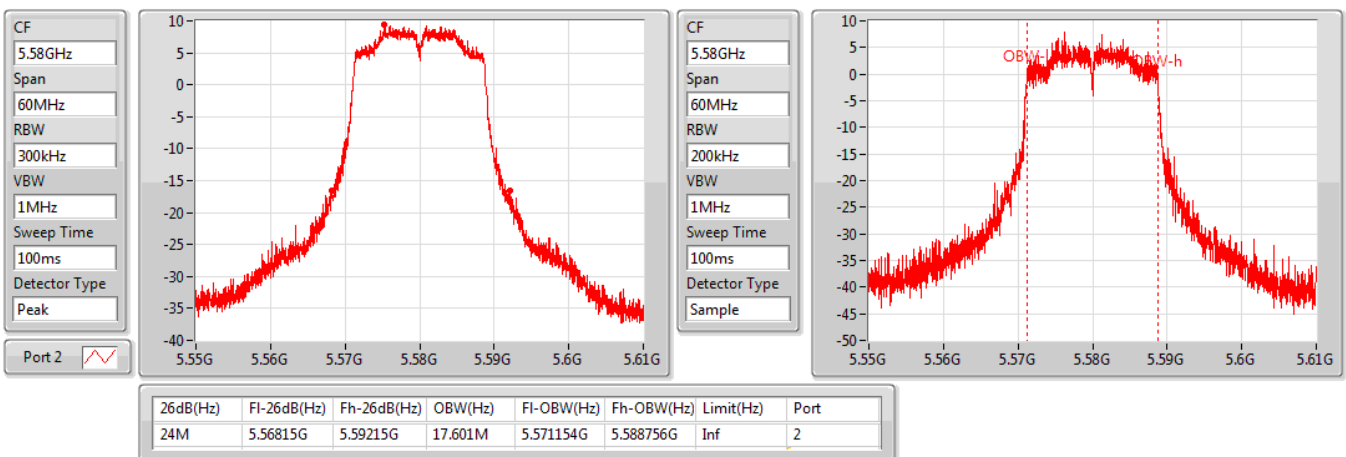


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5500MHz

16/08/2019

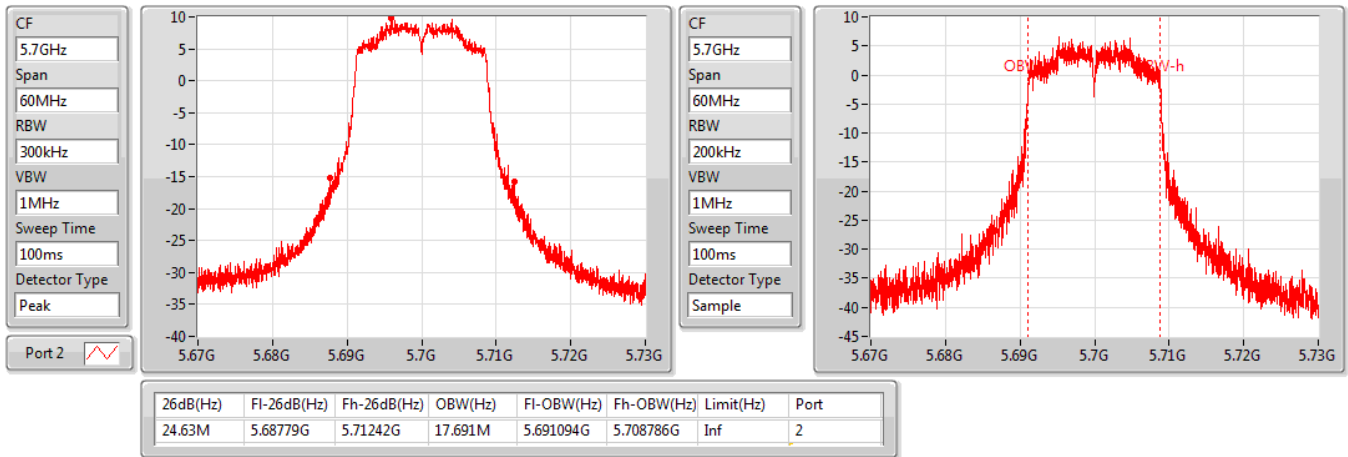

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5580MHz

16/08/2019

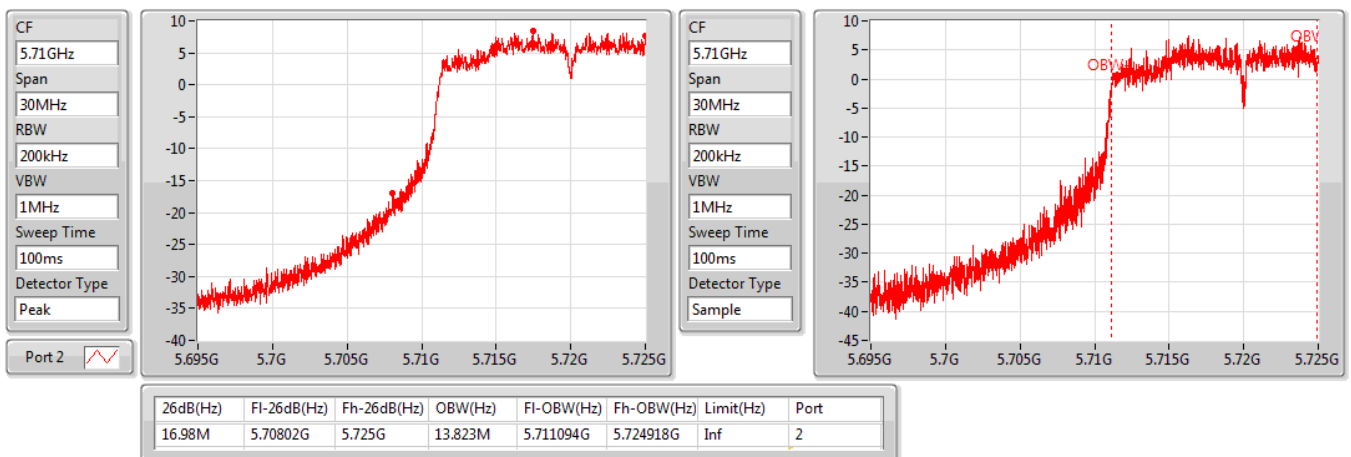


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5700MHz

16/08/2019

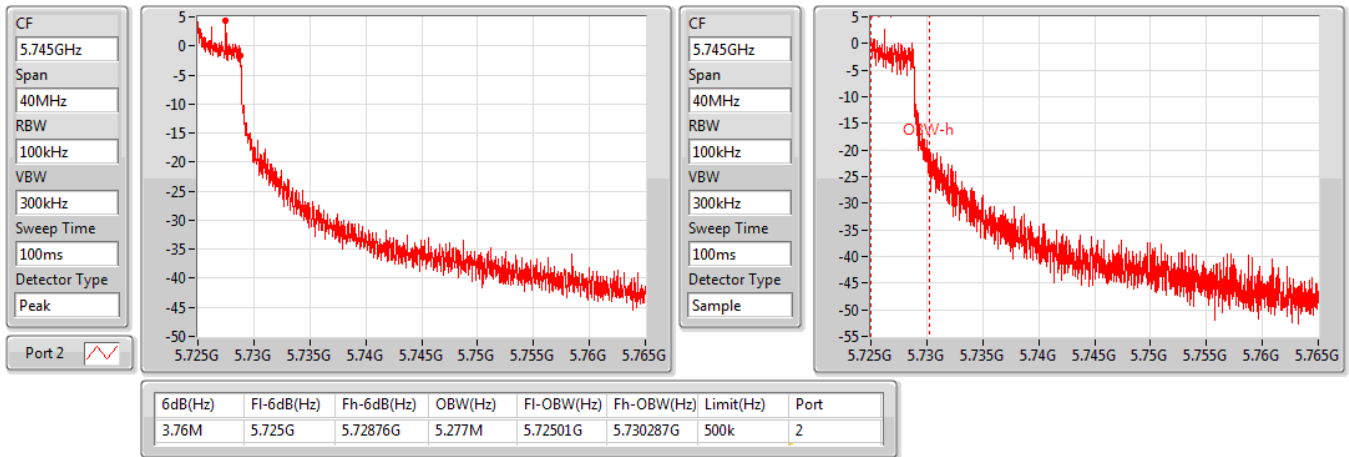

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5720MHz Straddle 5.47-5.725GHz

16/08/2019

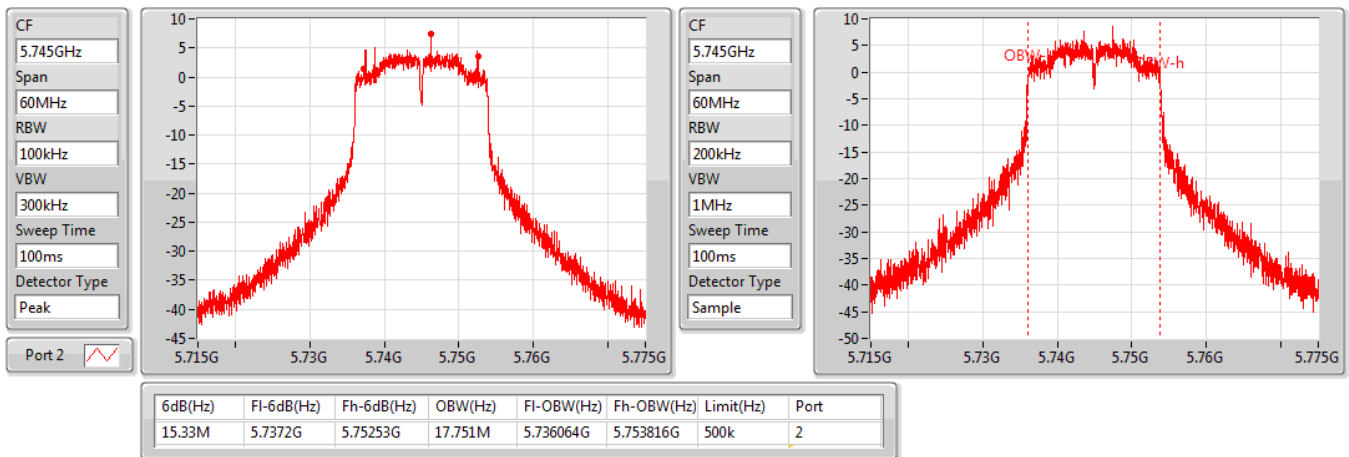


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5720MHz Straddle 5.725-5.85GHz

16/08/2019

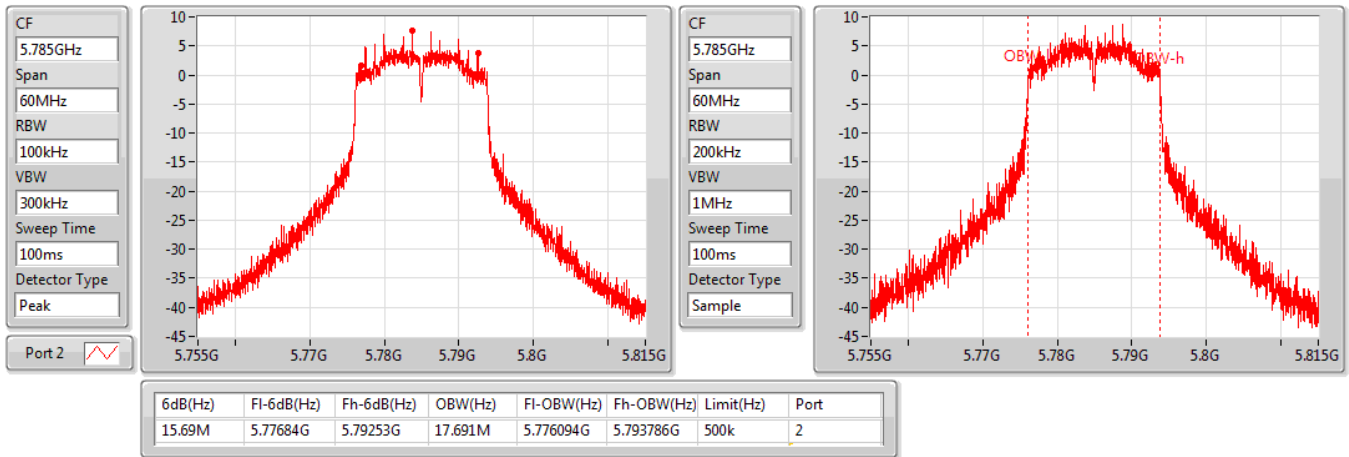

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5745MHz

16/08/2019

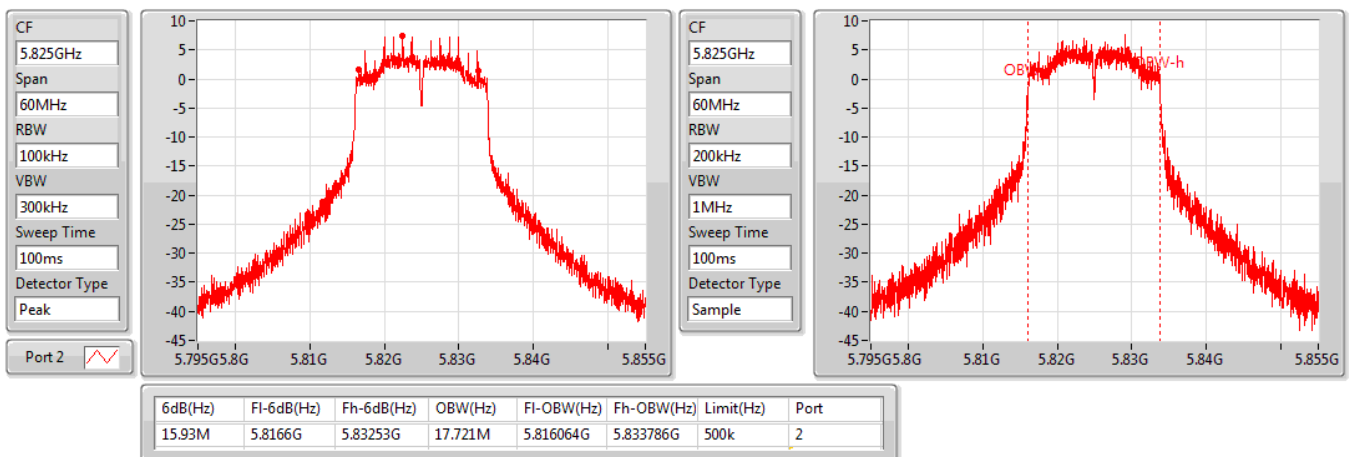


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5785MHz

16/08/2019

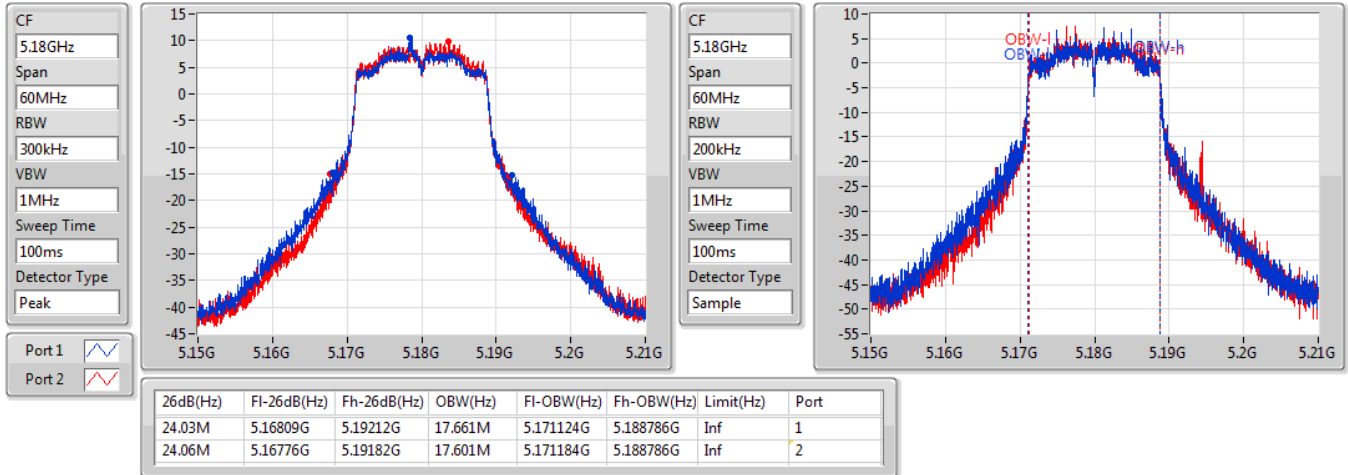

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)
EBW
5825MHz

16/08/2019

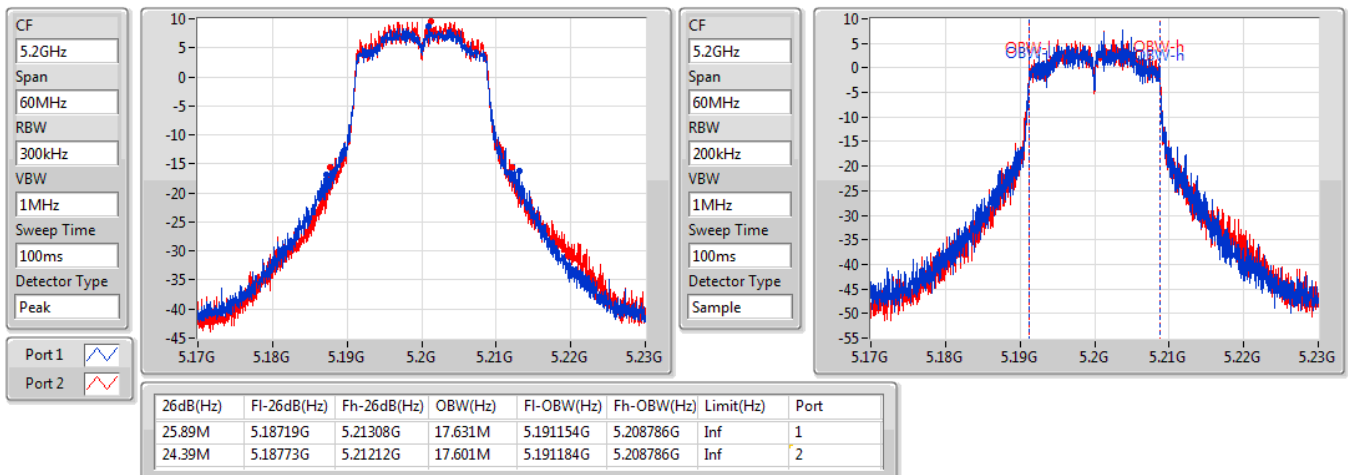


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

16/08/2019

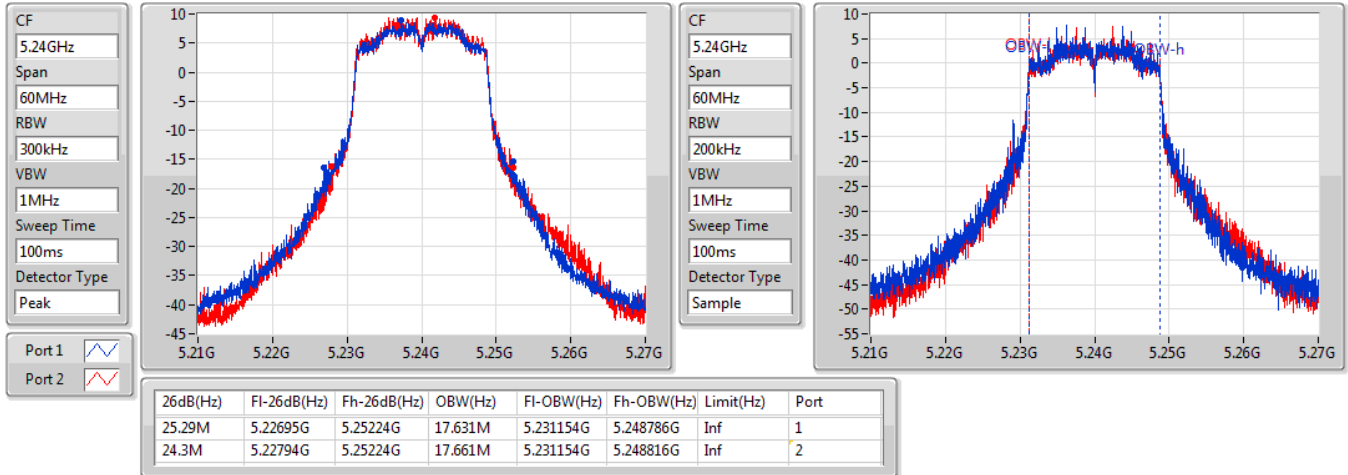

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

16/08/2019

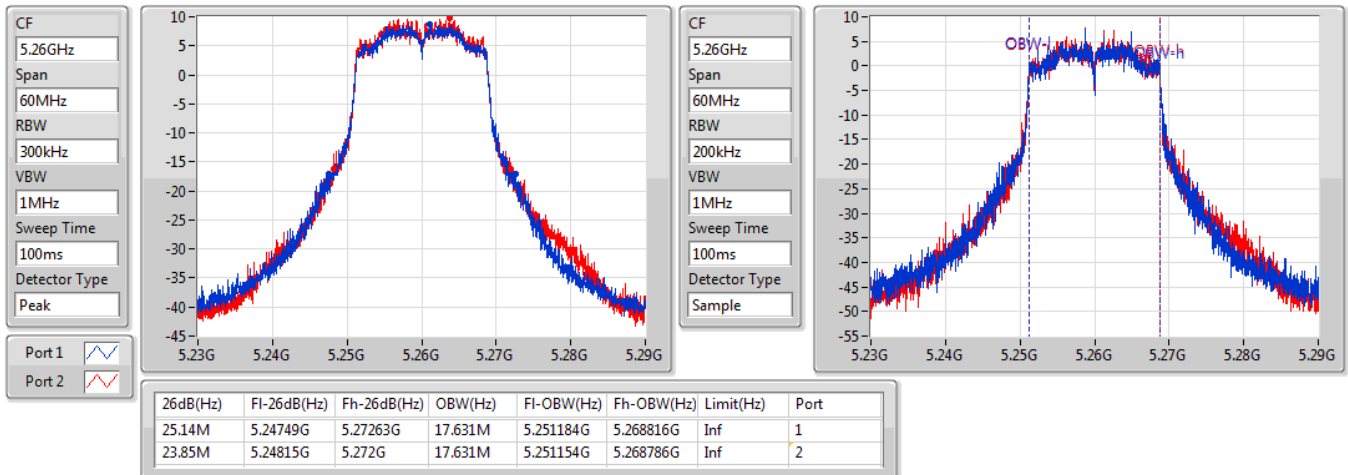


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5240MHz

16/08/2019

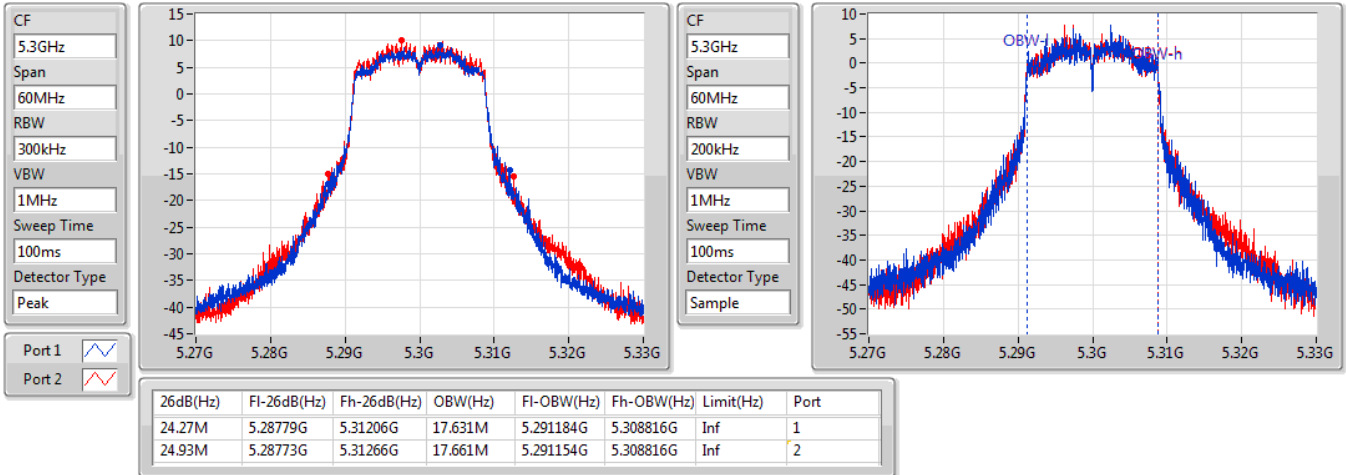

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5260MHz

16/08/2019

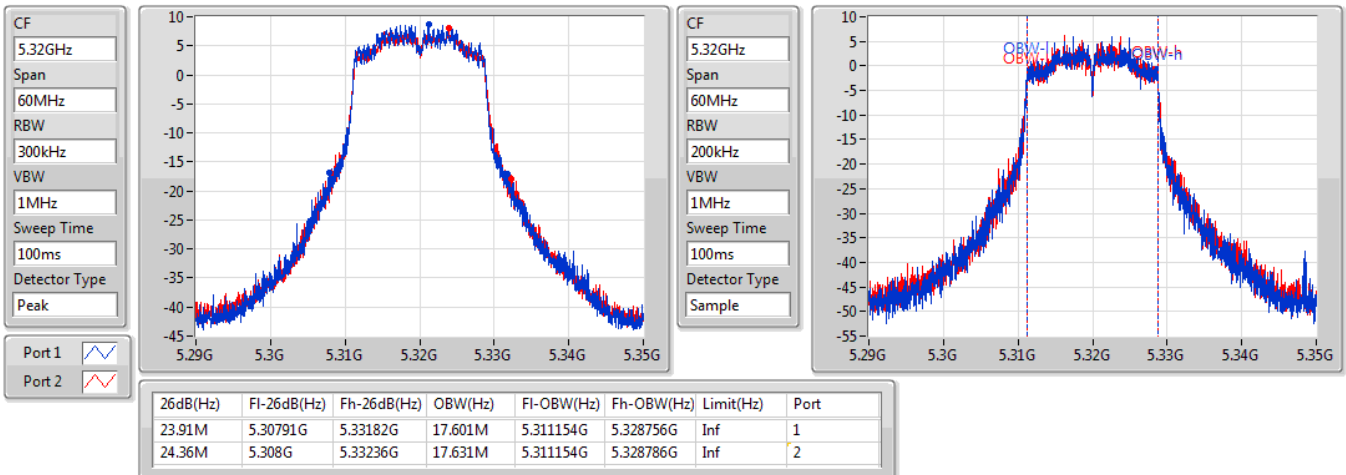


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5300MHz

16/08/2019

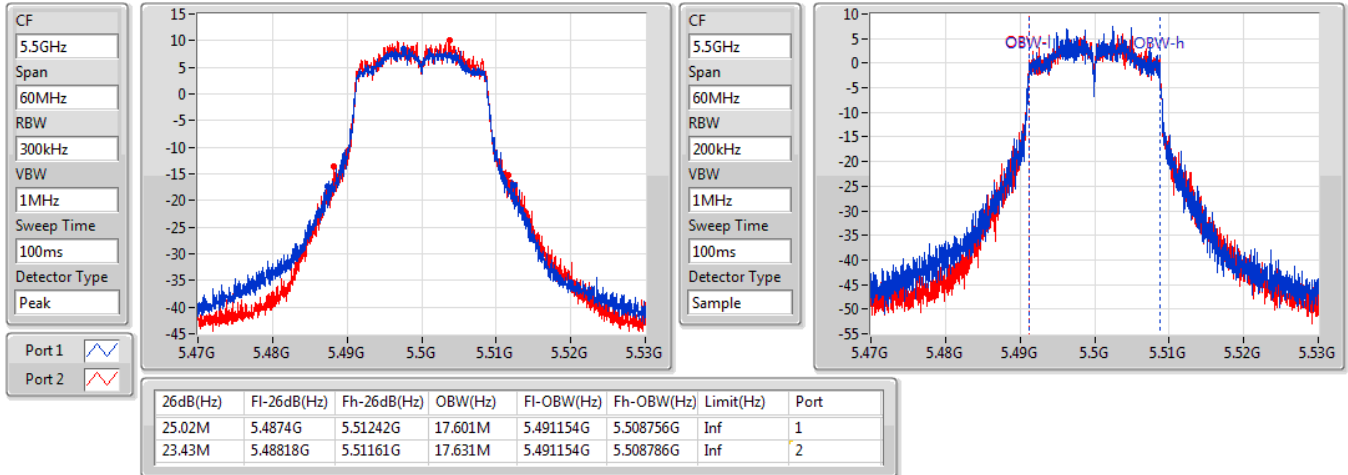

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5320MHz

15/07/2019

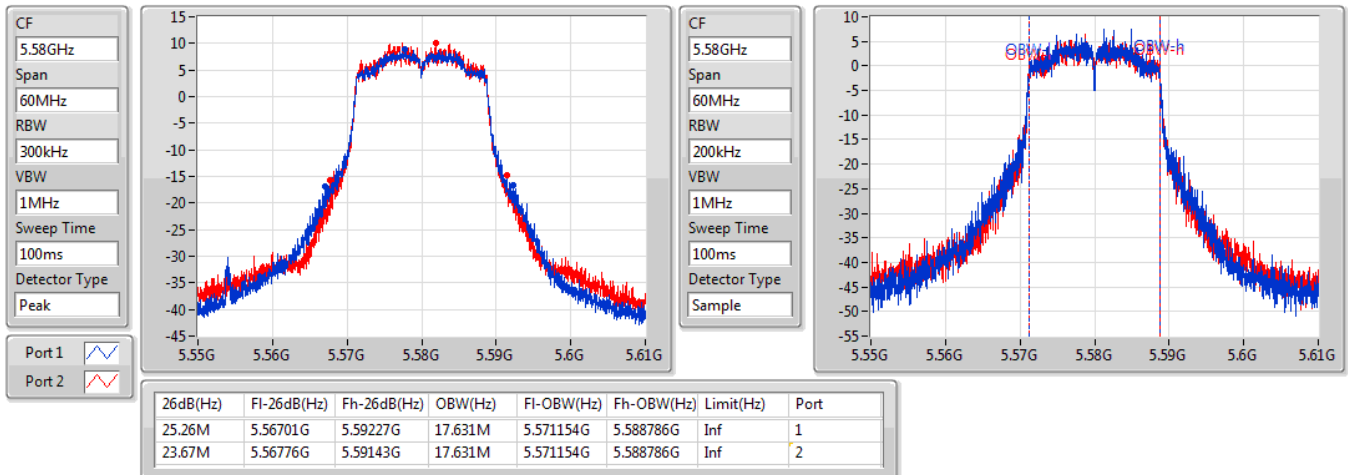


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5500MHz

16/08/2019

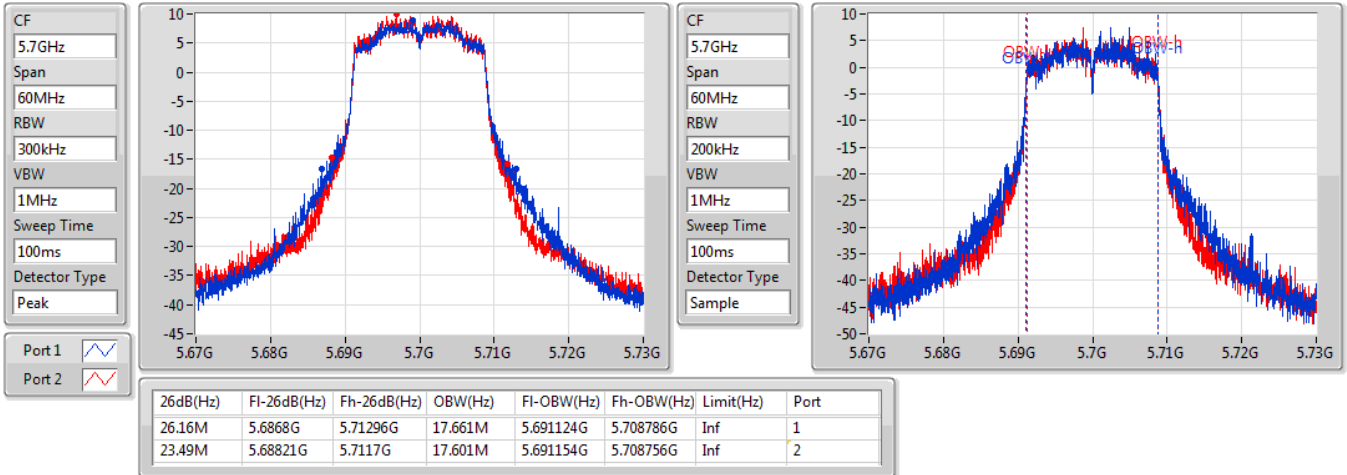

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5580MHz

16/08/2019

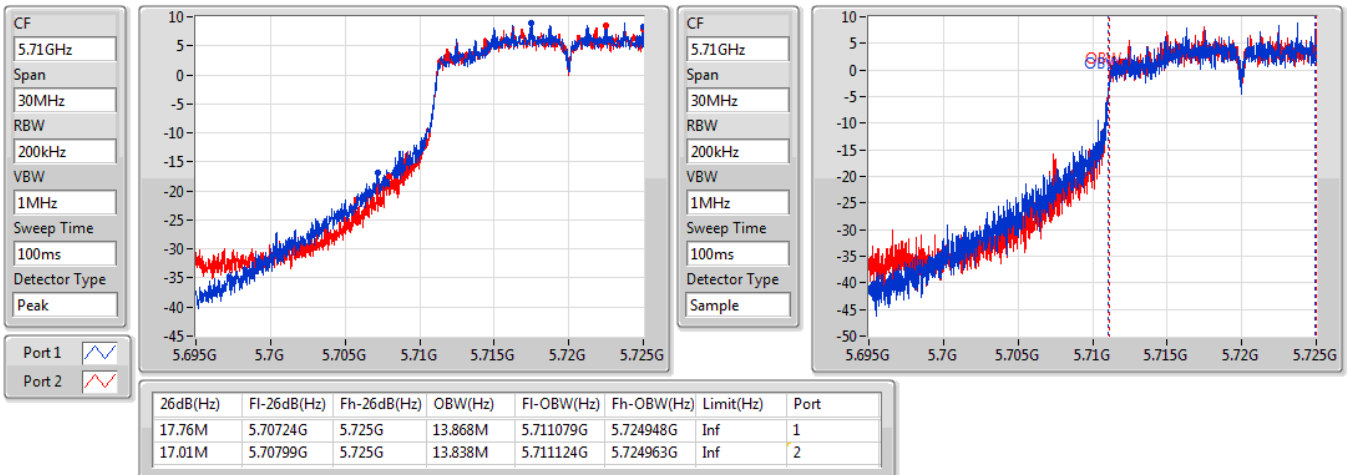


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5700MHz

16/08/2019

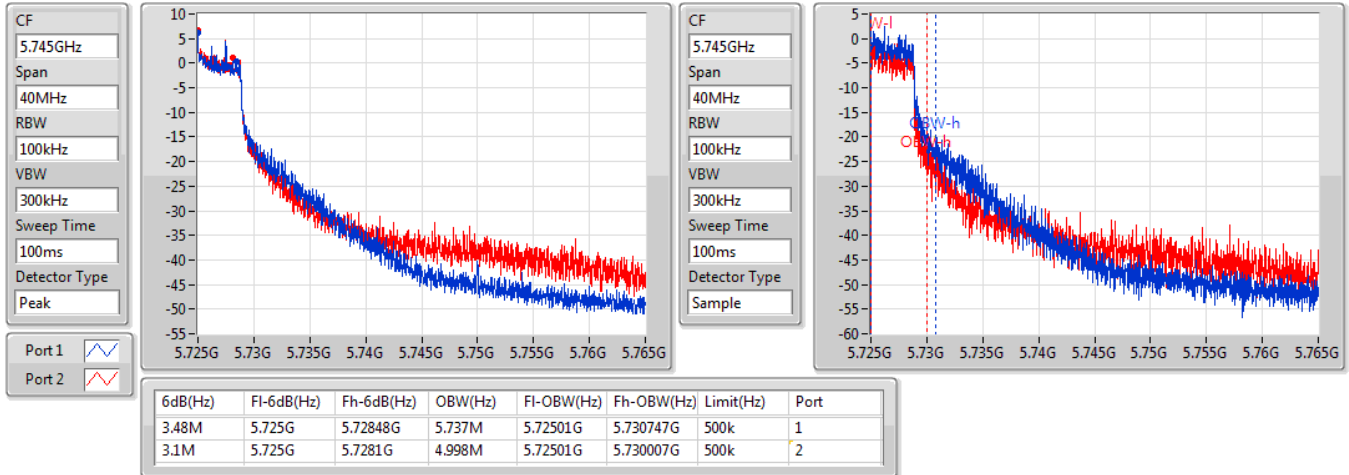

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

16/08/2019

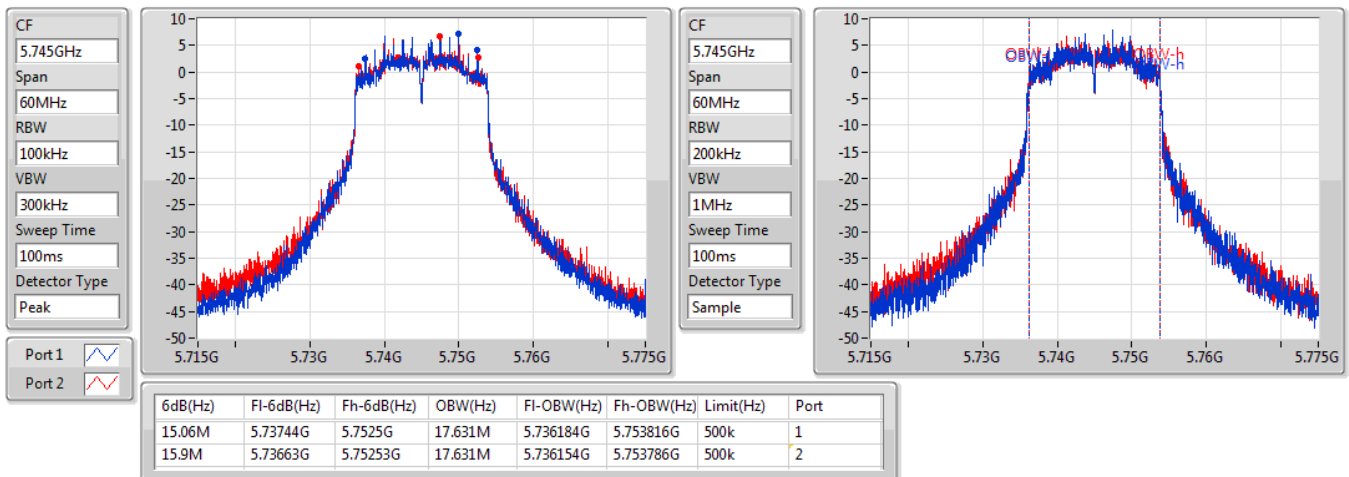


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

16/08/2019

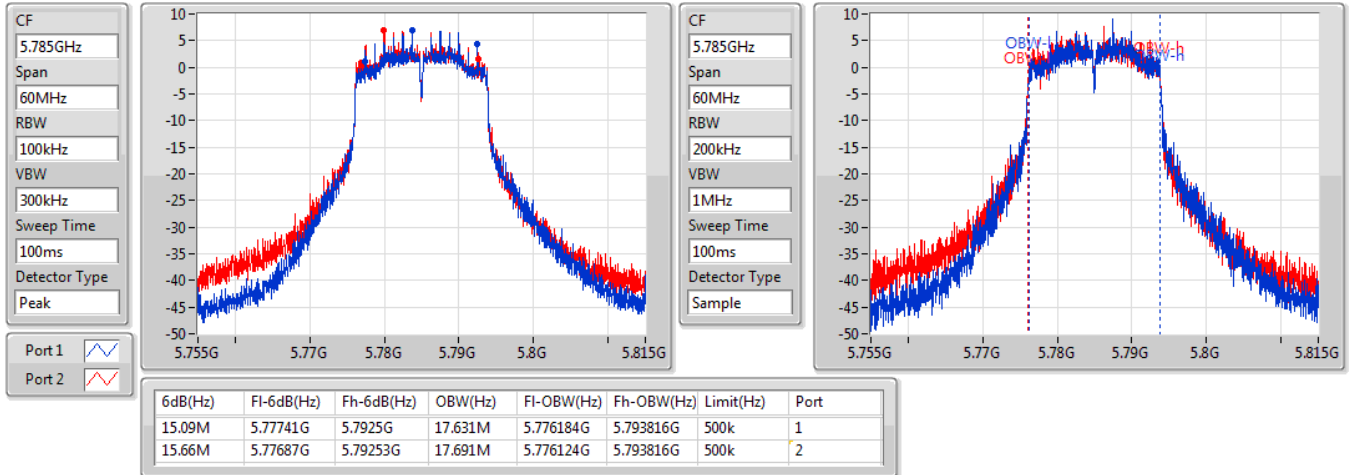

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

16/08/2019

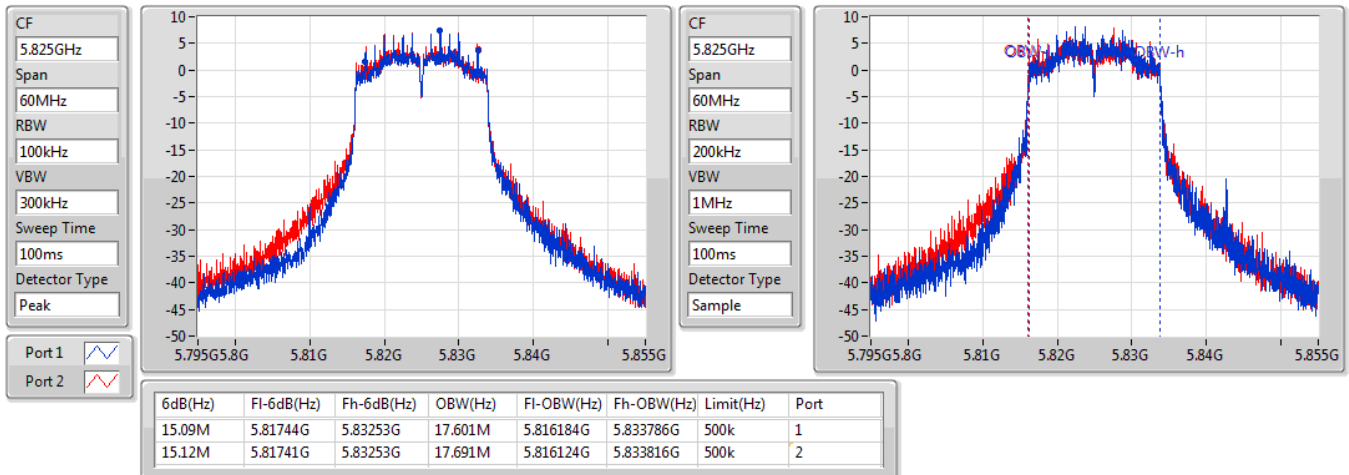


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

16/08/2019

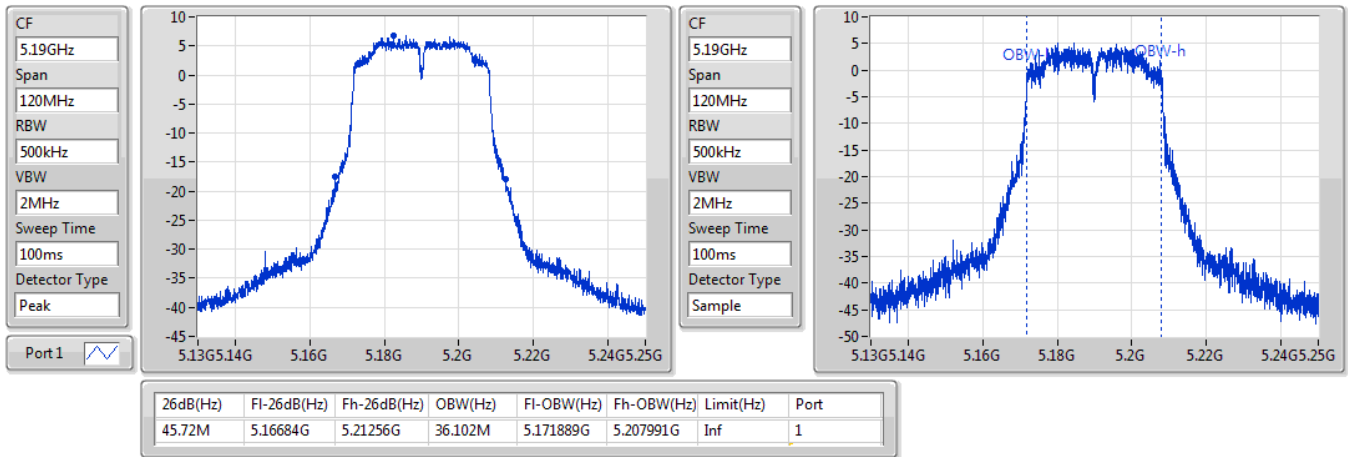

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

16/08/2019

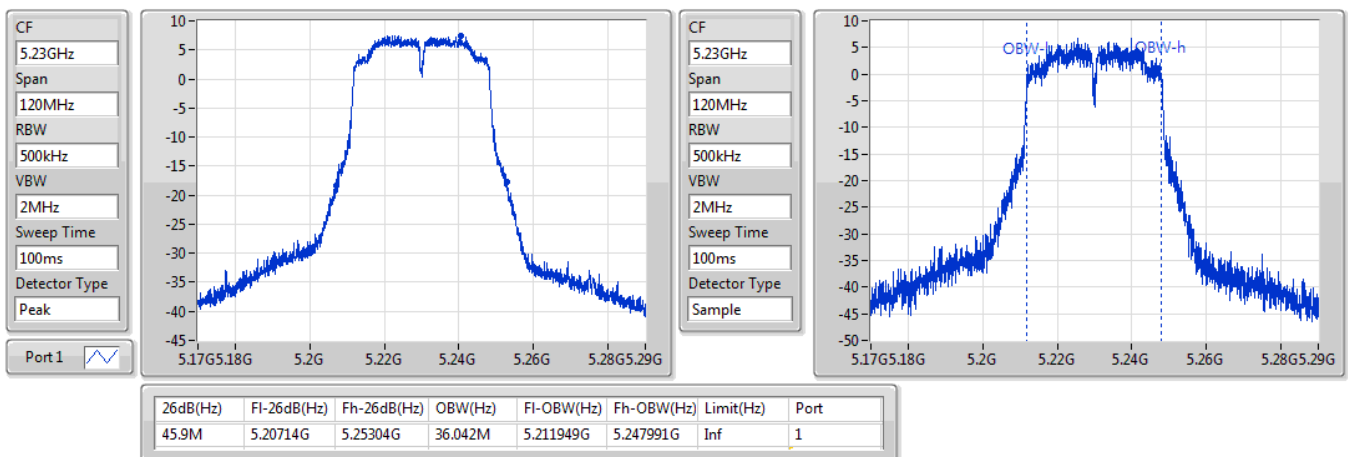


802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5190MHz

16/08/2019

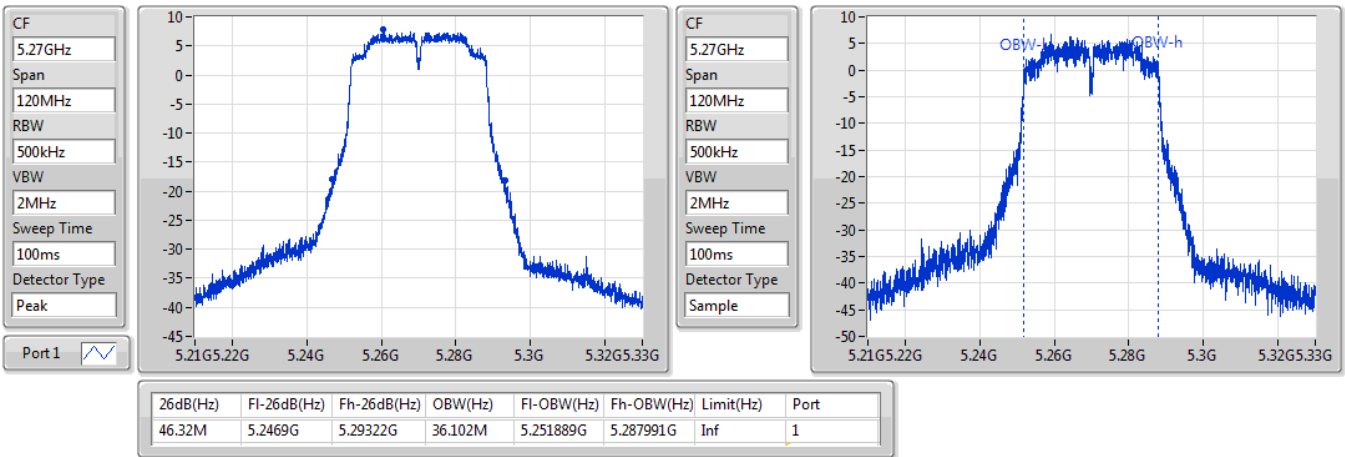

802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5230MHz

16/08/2019

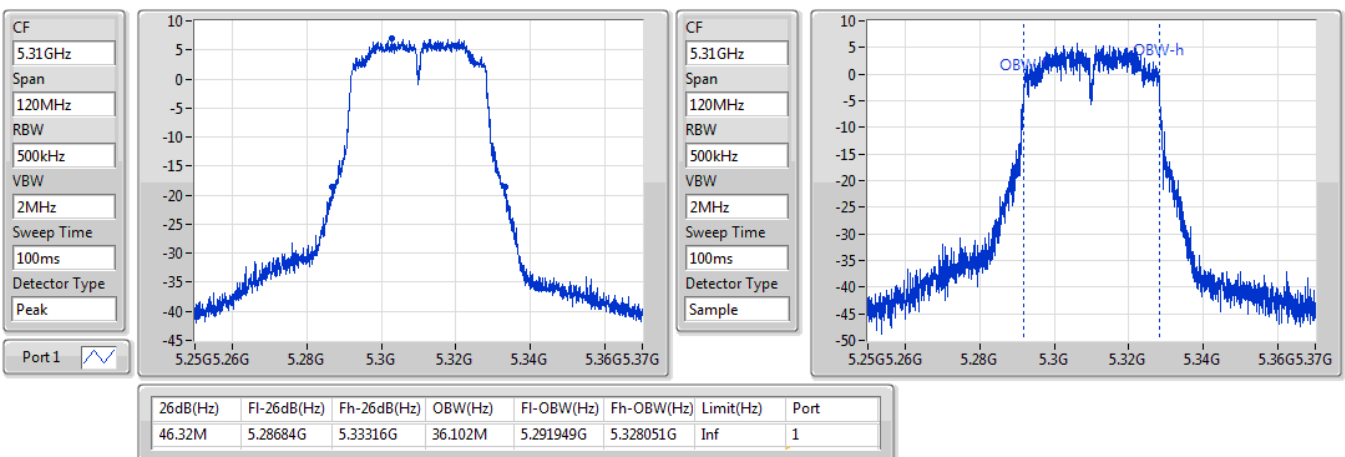


802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5270MHz

16/08/2019

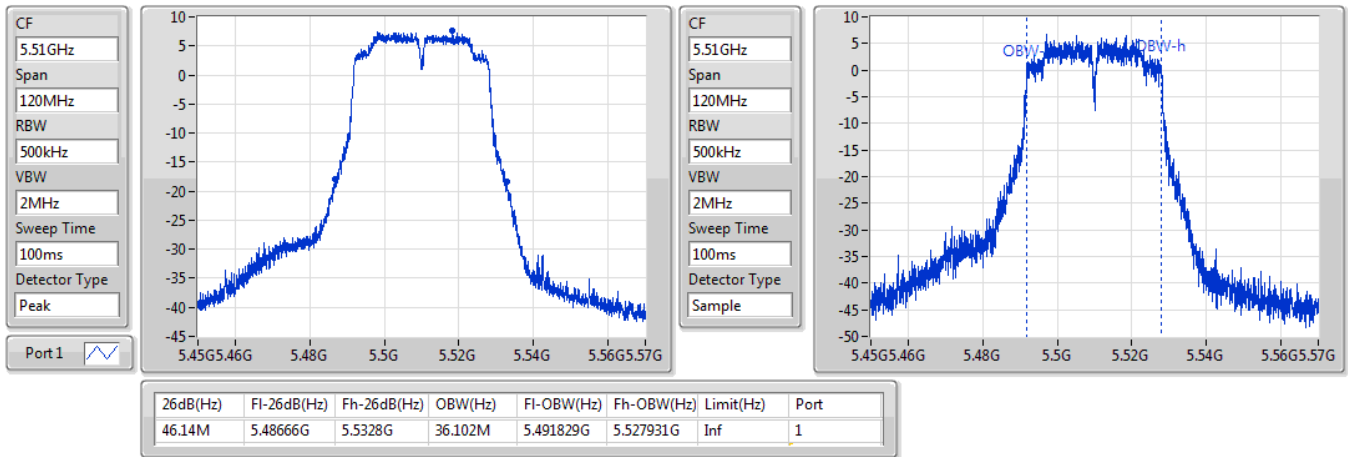

802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5310MHz

16/08/2019

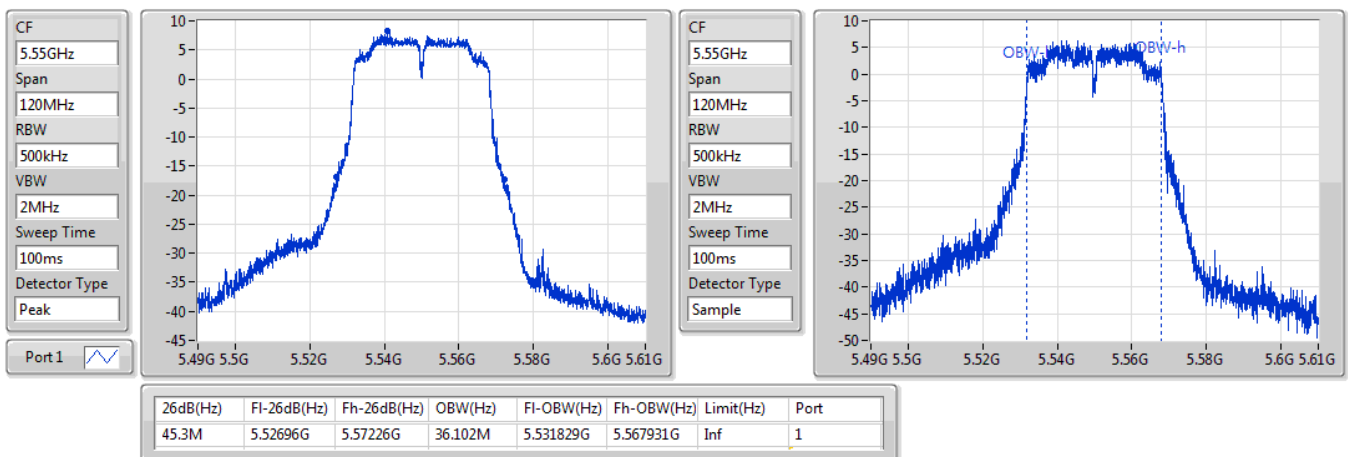


802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5510MHz

16/08/2019

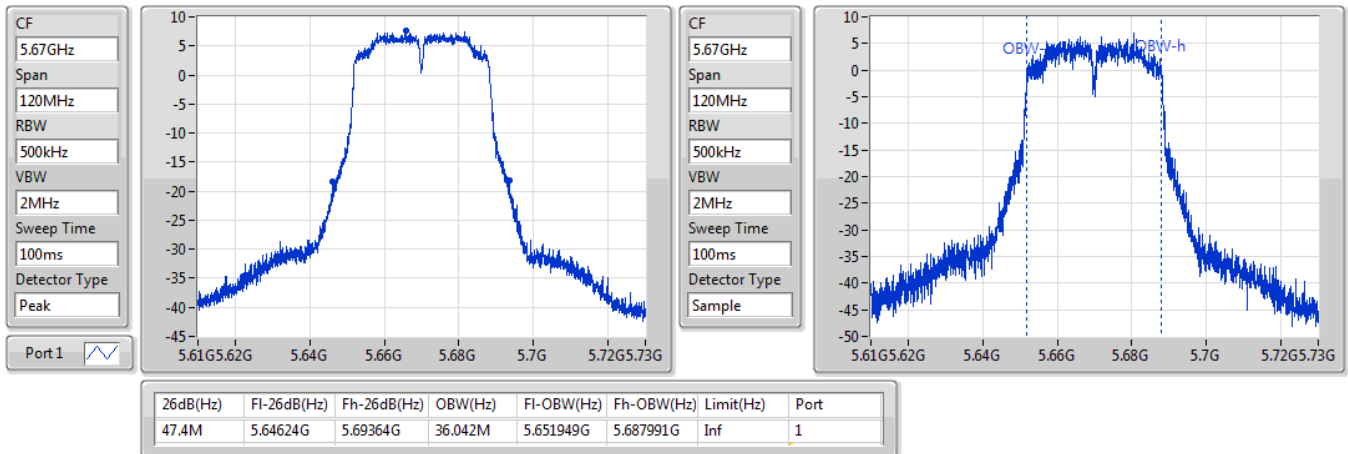

802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5550MHz

16/08/2019

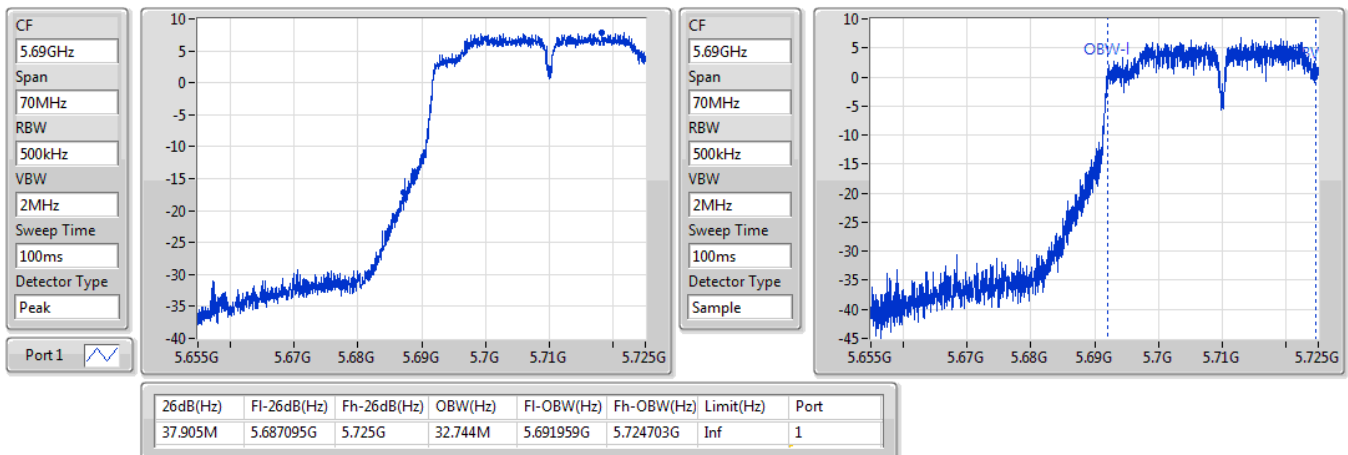


802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5670MHz

16/08/2019

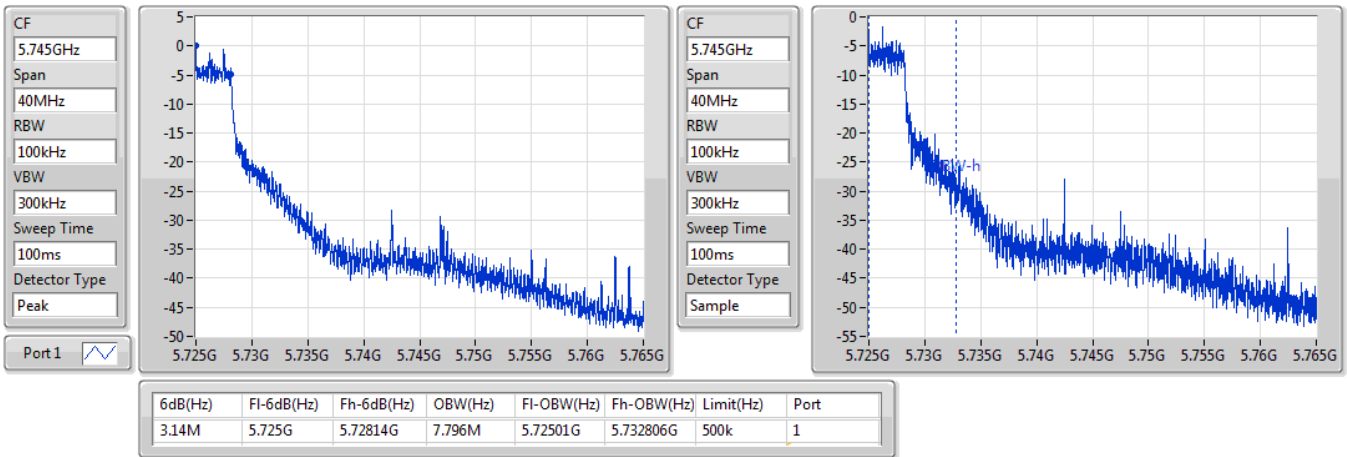

802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5710MHz Straddle 5.47-5.725GHz

16/08/2019

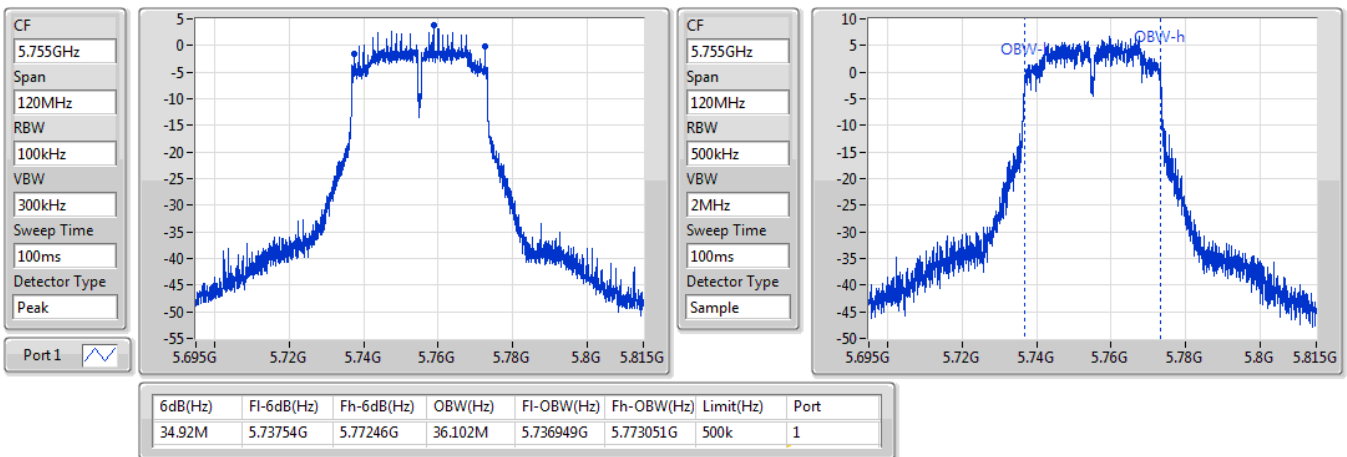


802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5710MHz Straddle 5.725-5.85GHz

16/08/2019

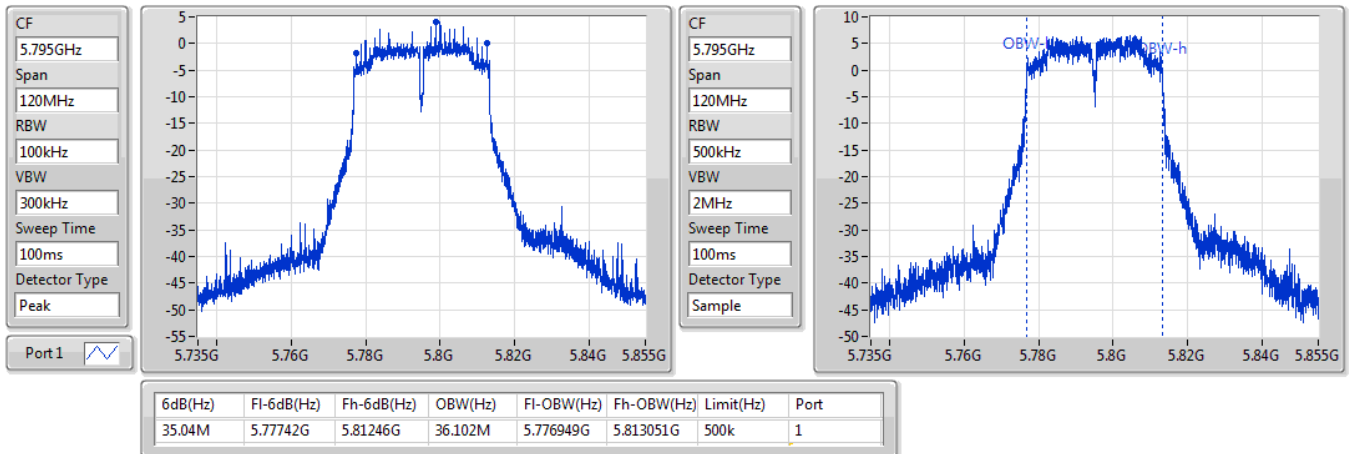

802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5755MHz

16/08/2019

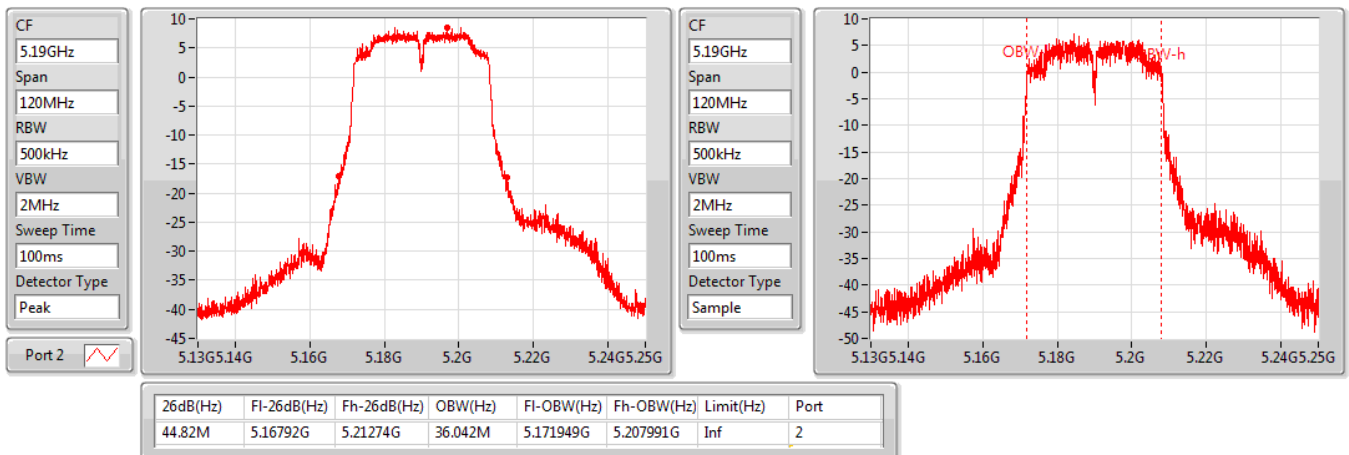


802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)
EBW
5795MHz

16/08/2019

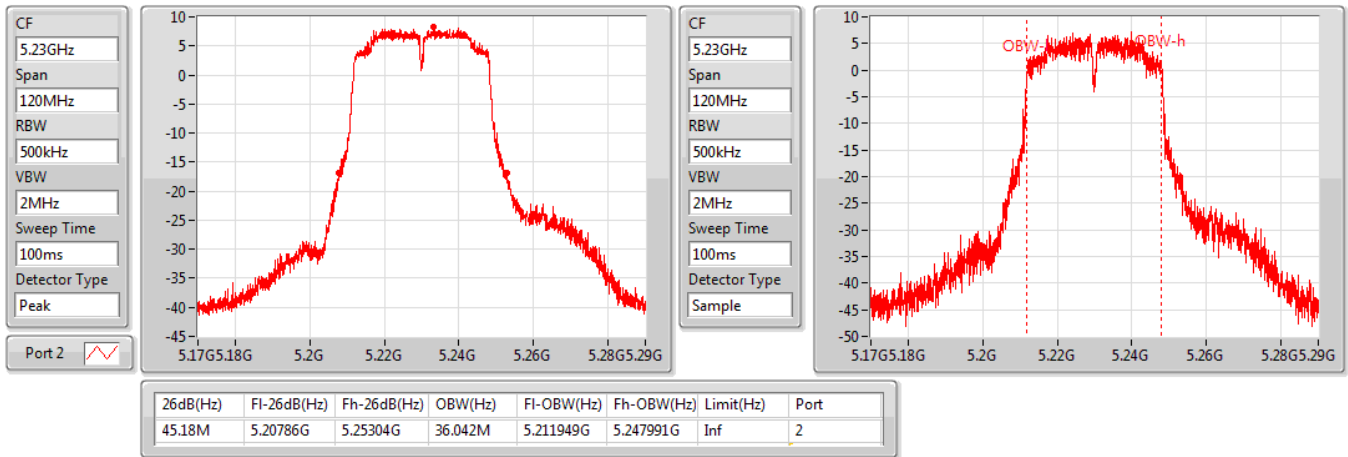

802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5190MHz

16/08/2019

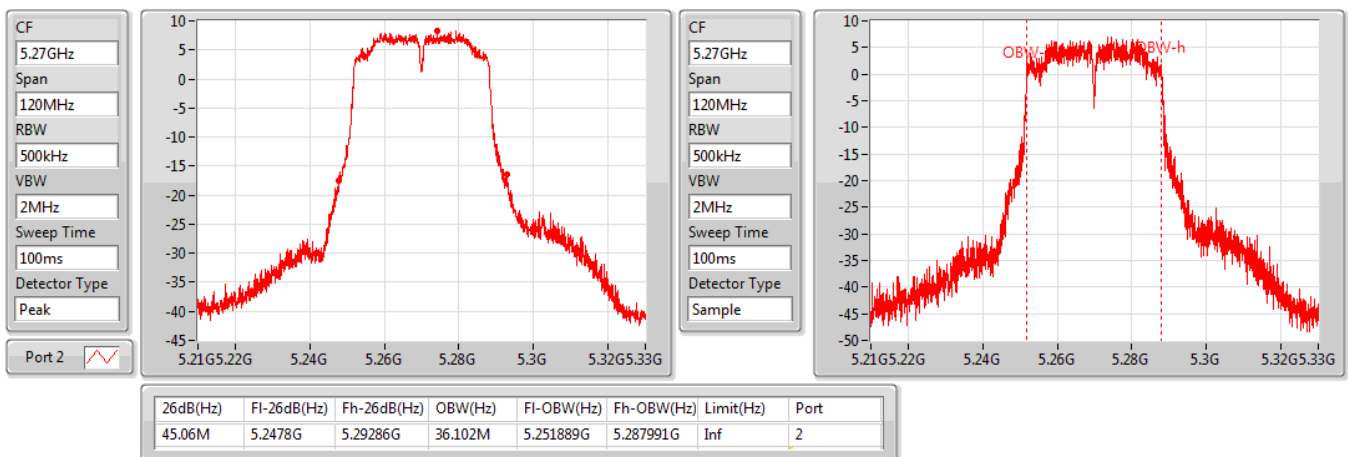


802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5230MHz

16/08/2019

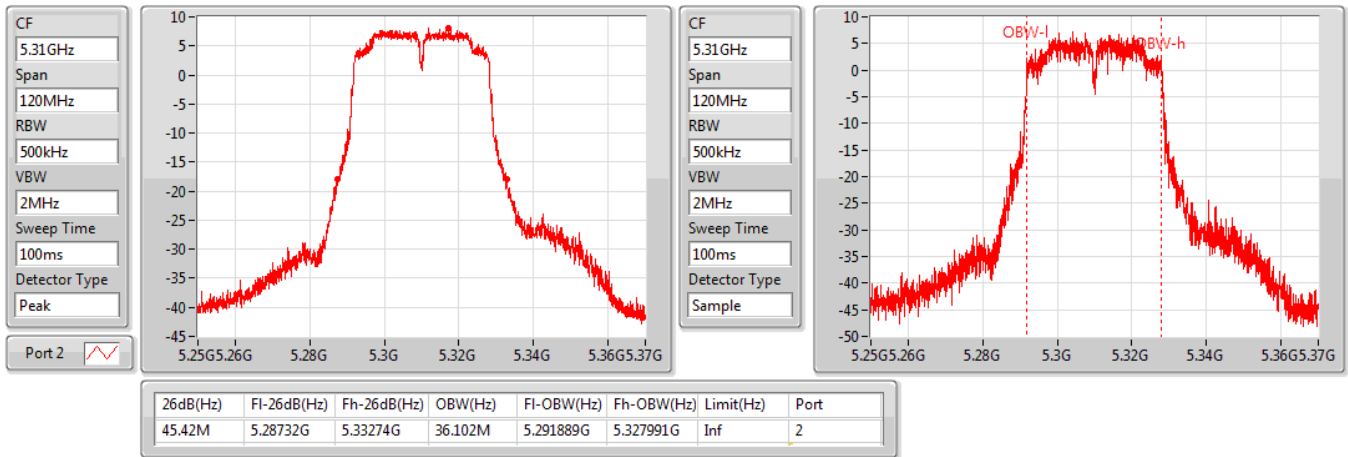

802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5270MHz

16/08/2019

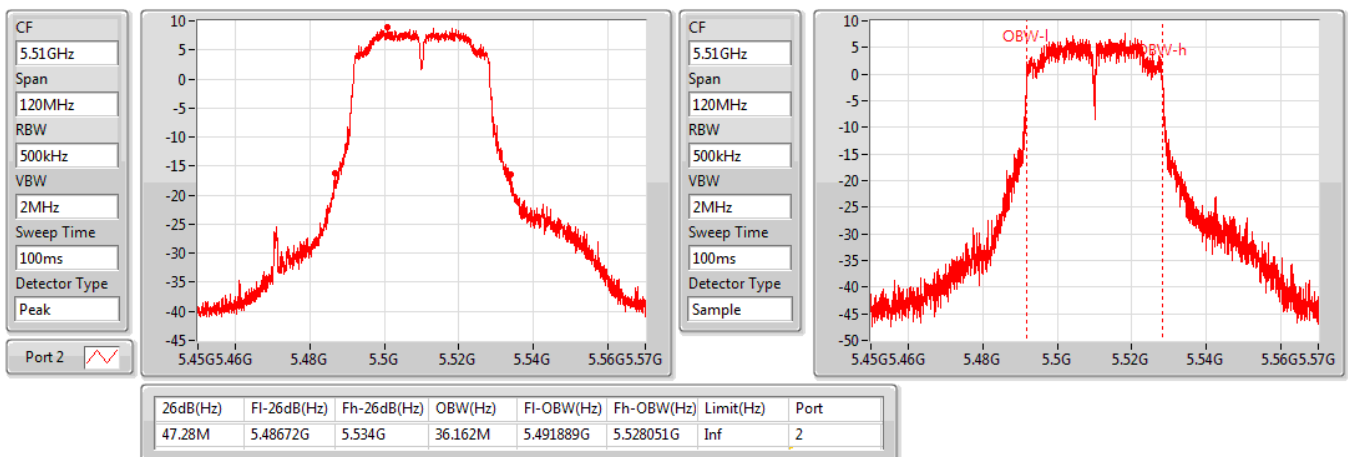


802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5310MHz

16/08/2019

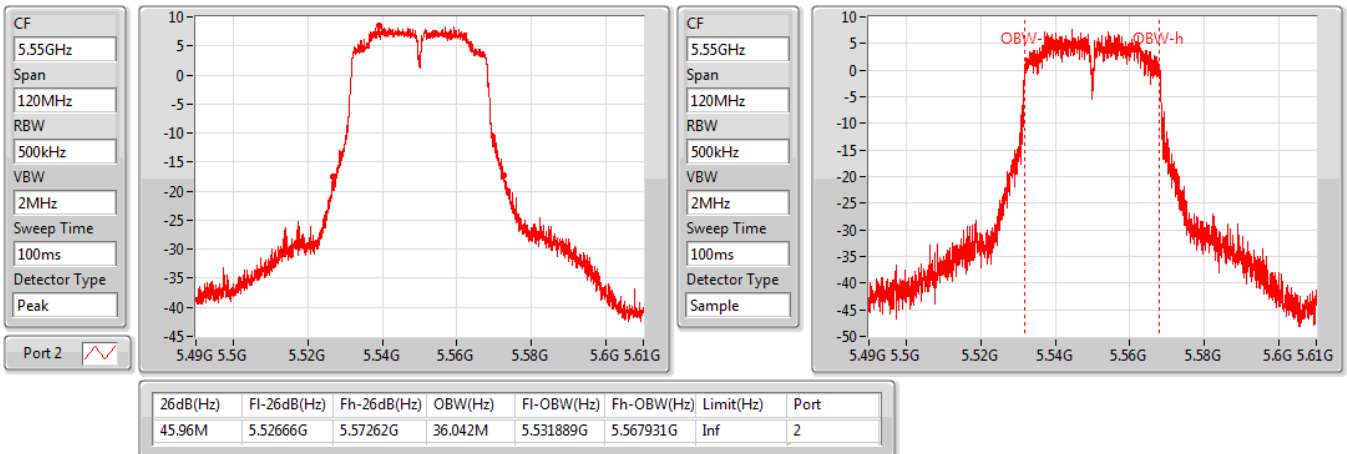

802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5510MHz

31/07/2019

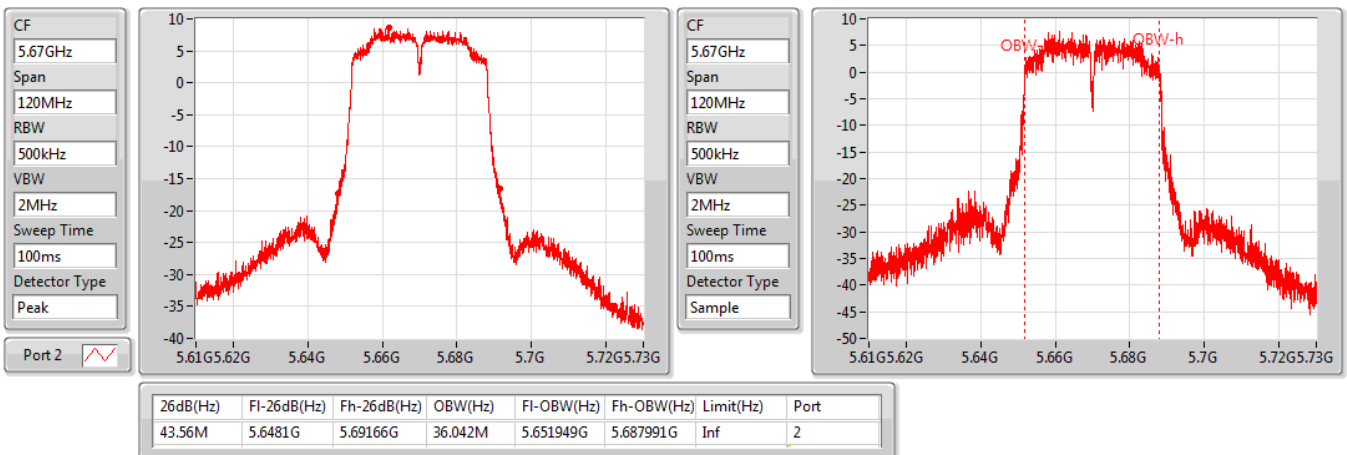


802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5550MHz

16/08/2019

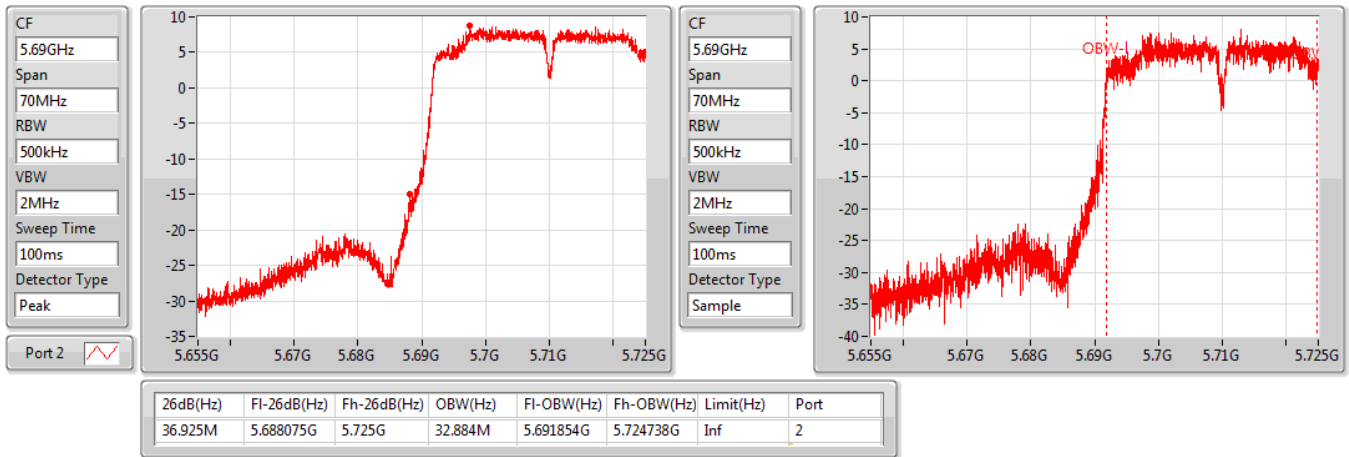

802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5670MHz

16/08/2019

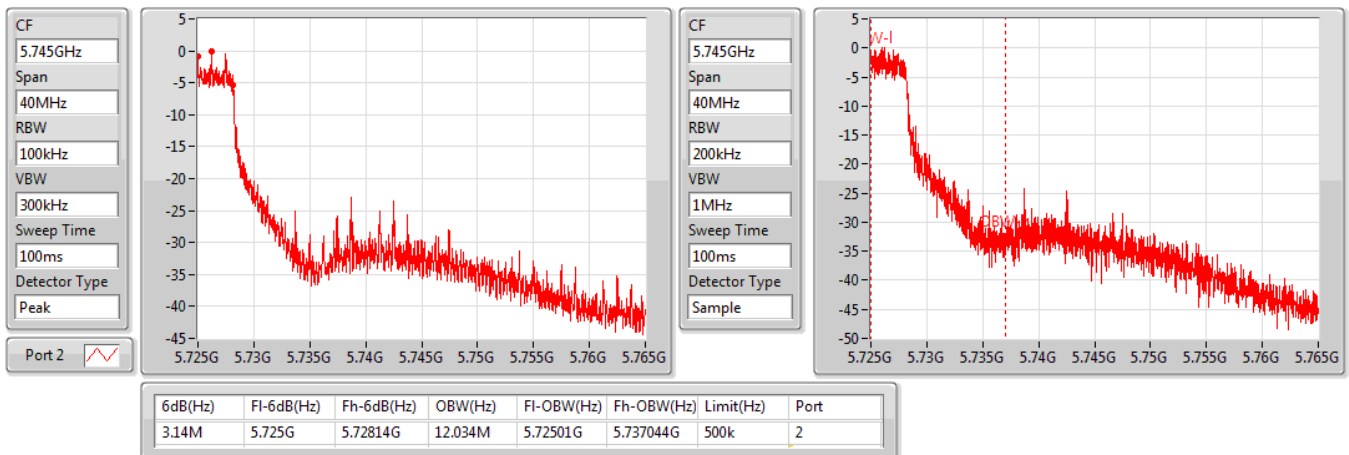


802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5710MHz Straddle 5.47-5.725GHz

16/08/2019

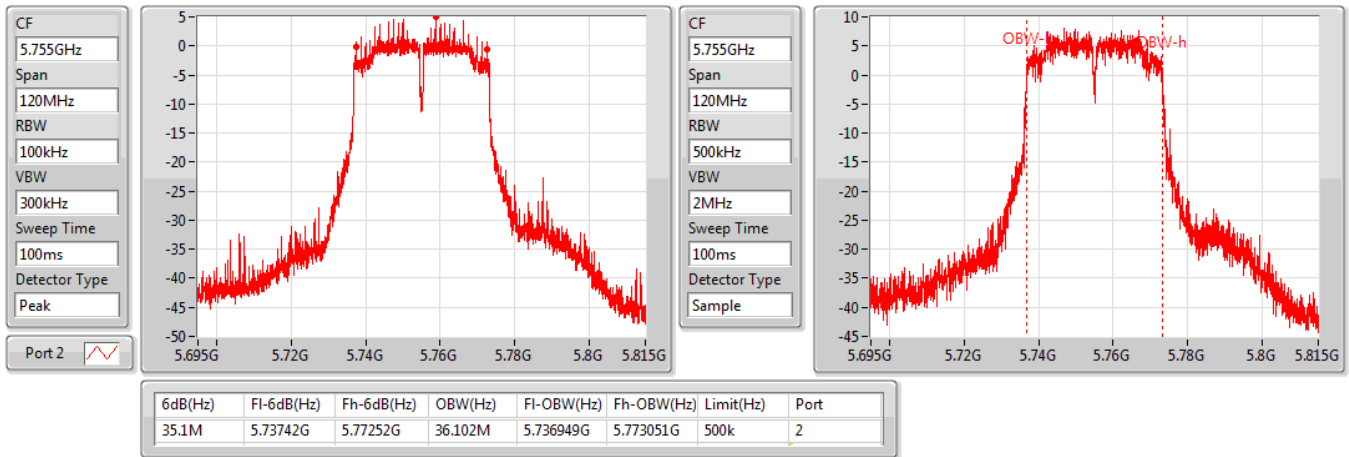

802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5710MHz Straddle 5.725-5.85GHz

16/08/2019

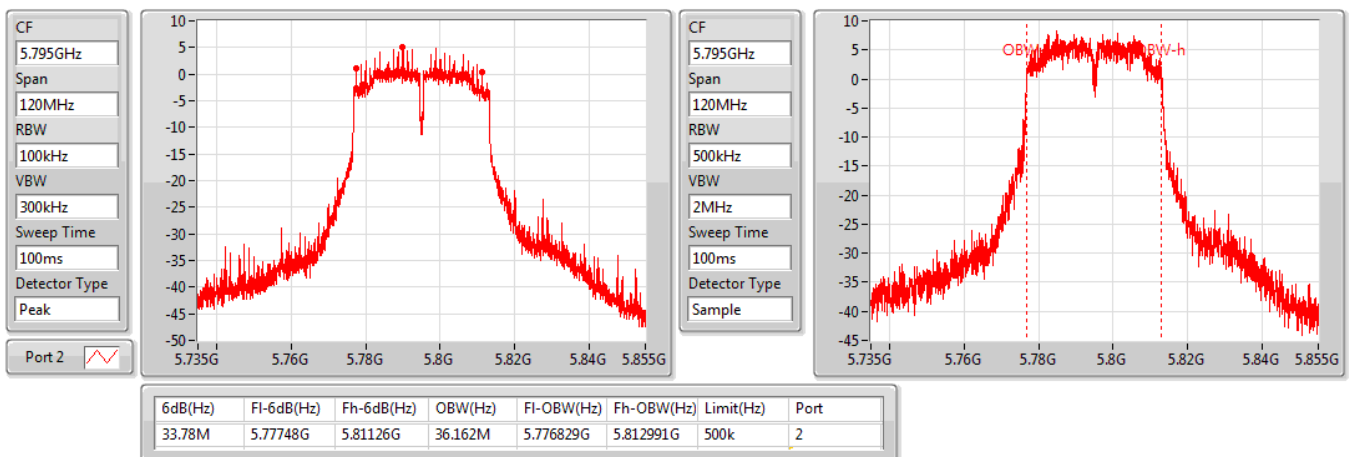


802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5755MHz

16/08/2019

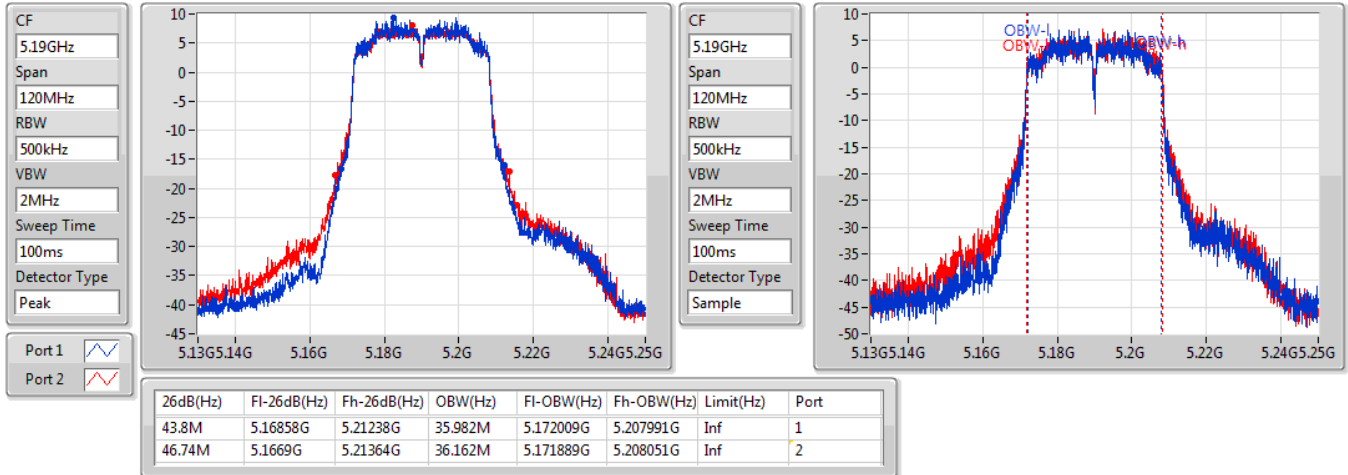

802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)
EBW
5795MHz

16/08/2019

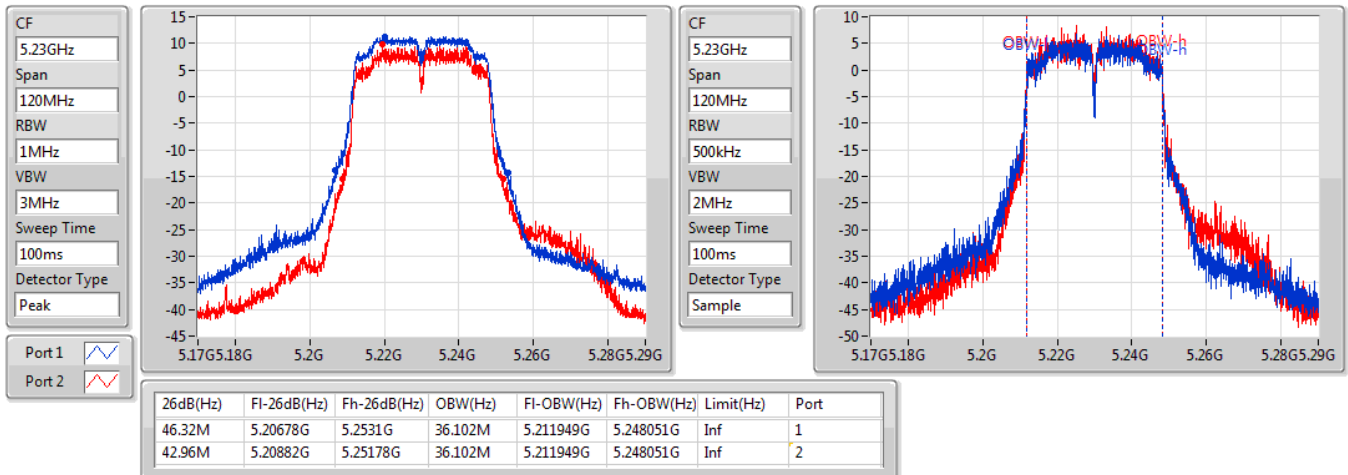


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

15/07/2019

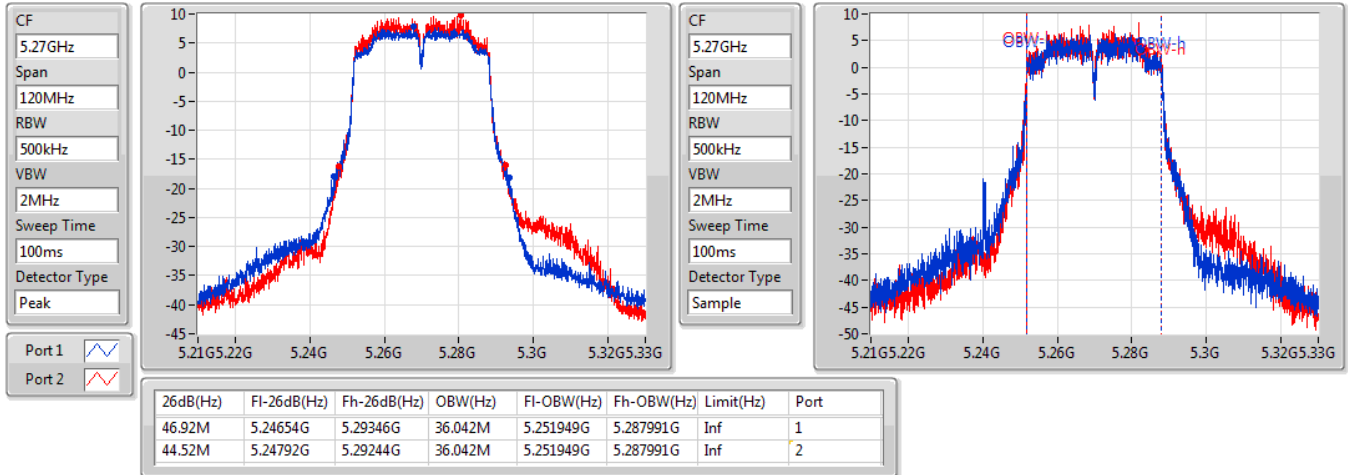

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

16/08/2019

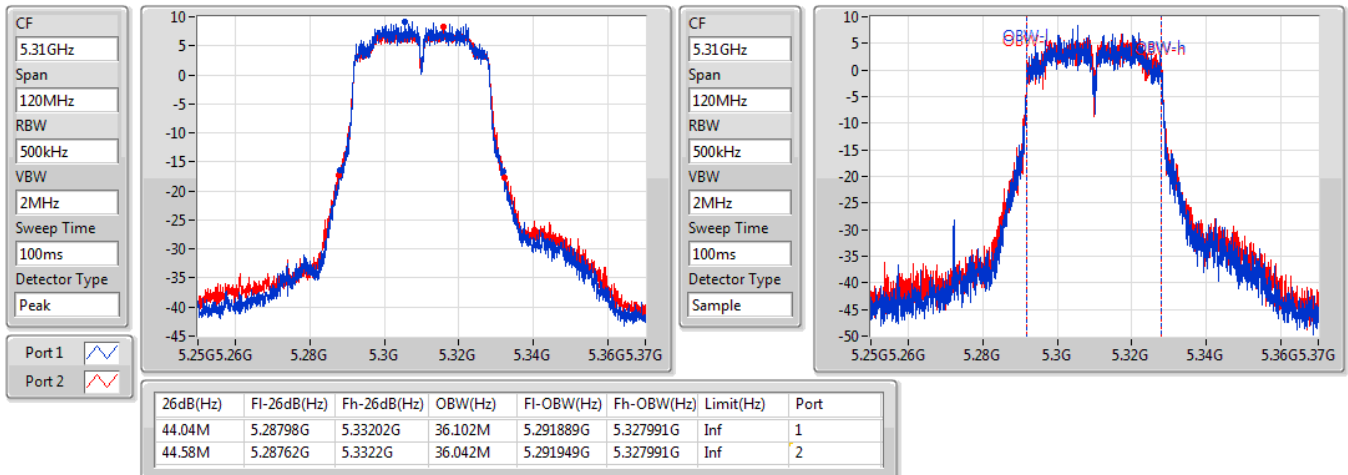


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5270MHz

16/08/2019

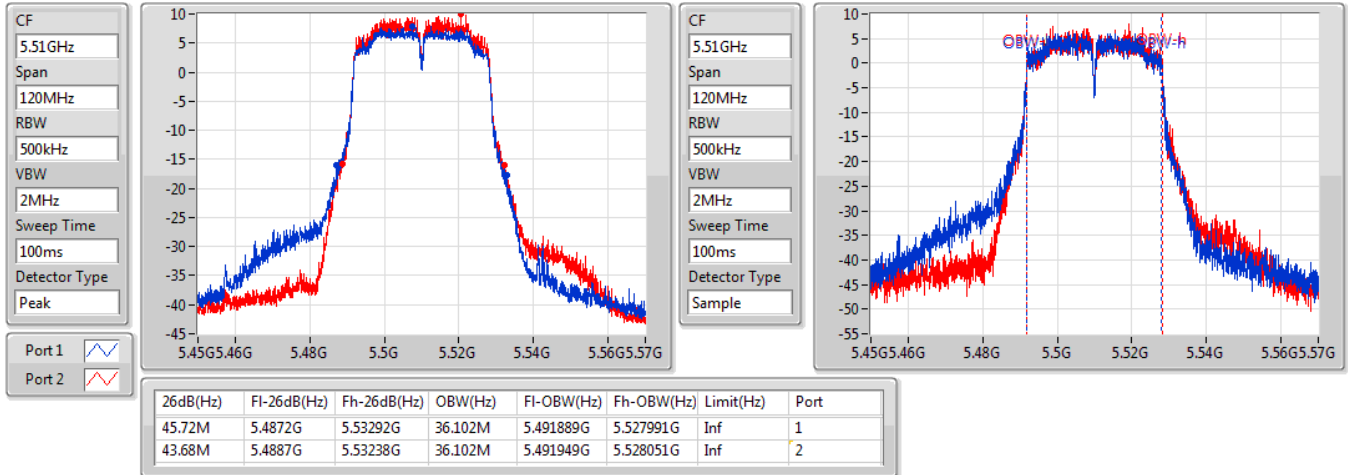

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5310MHz

15/07/2019

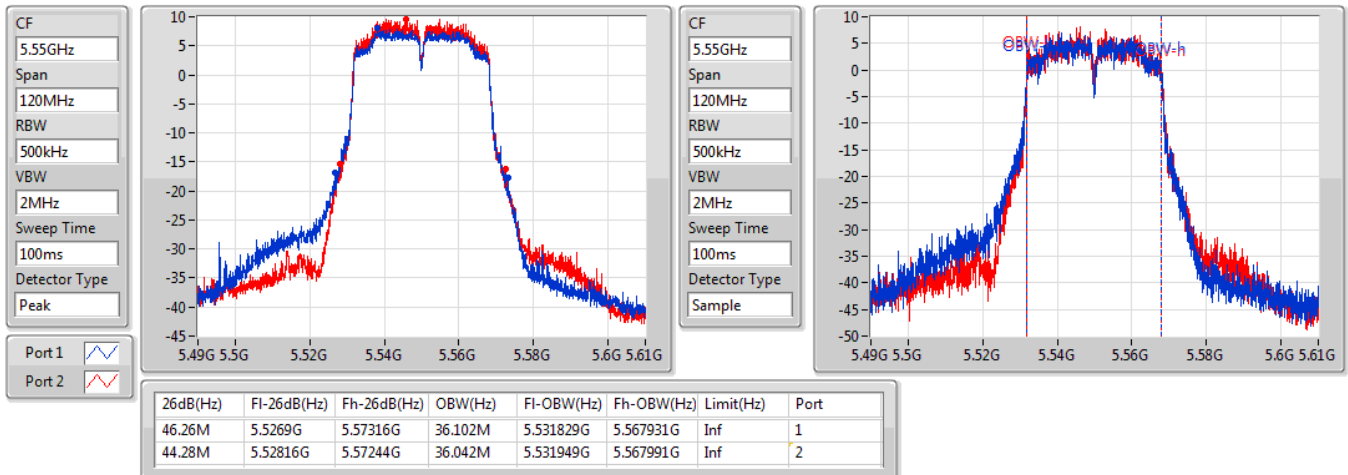


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5510MHz

16/08/2019

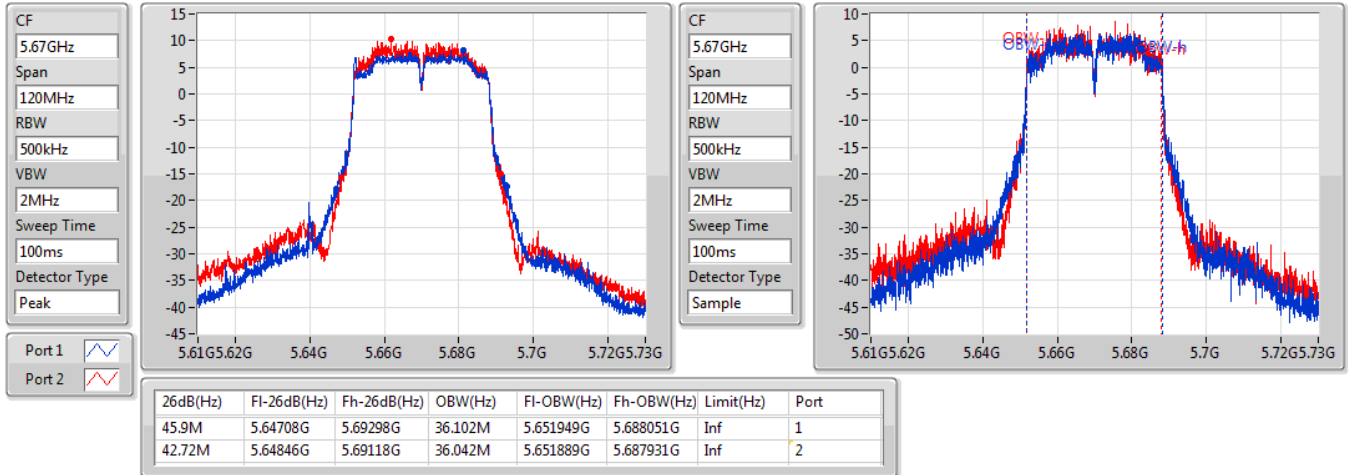

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5550MHz

16/08/2019

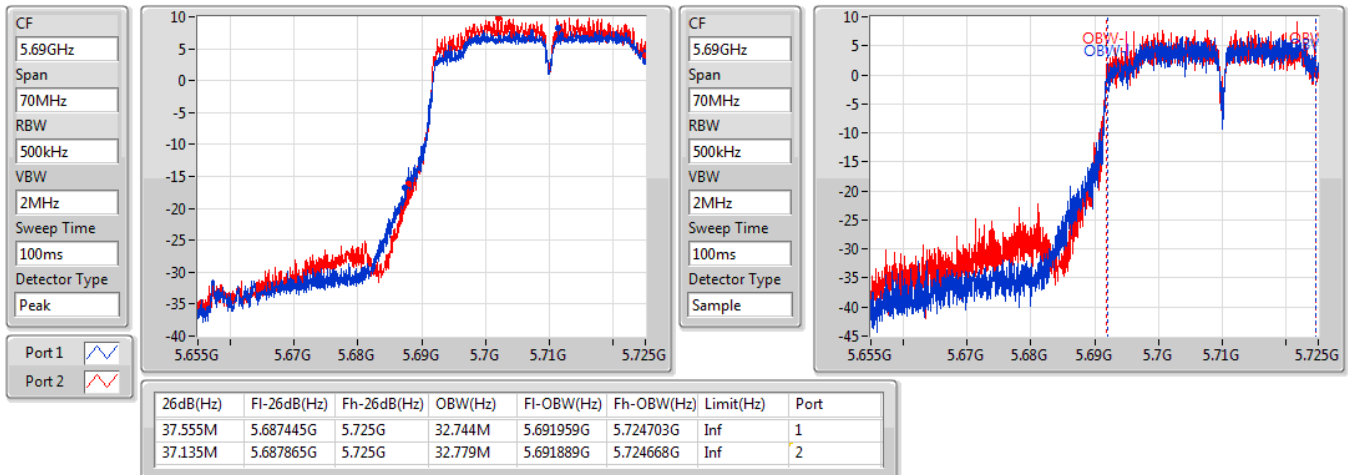


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5670MHz

16/08/2019

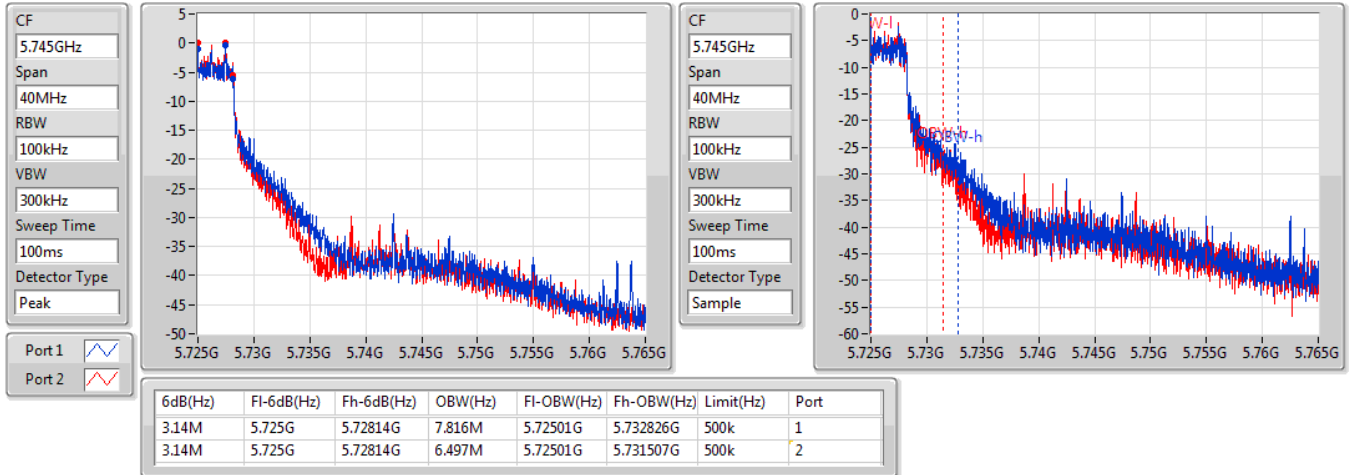

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

16/08/2019

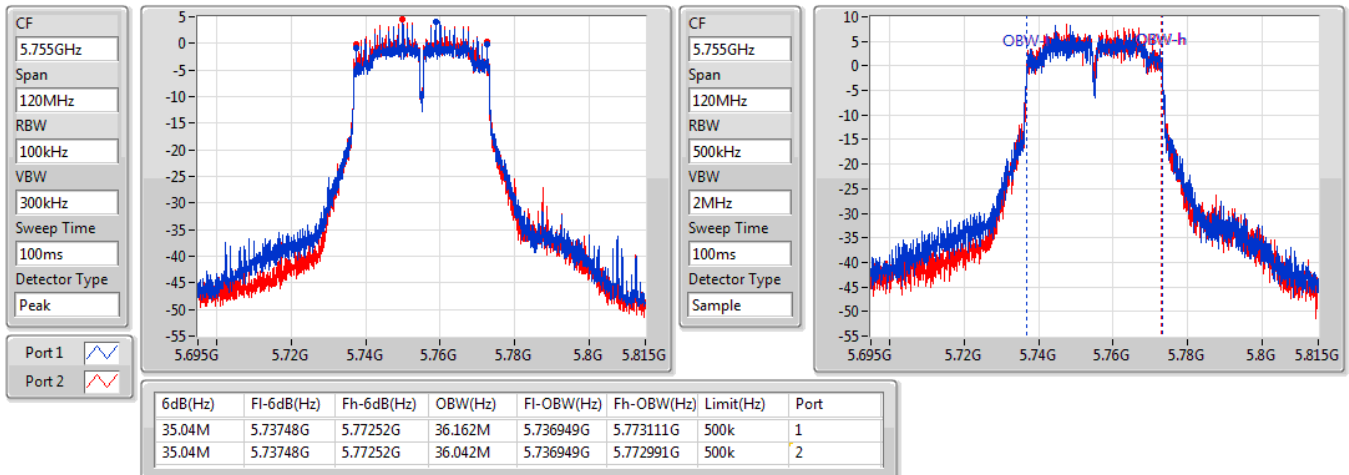


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

16/08/2019

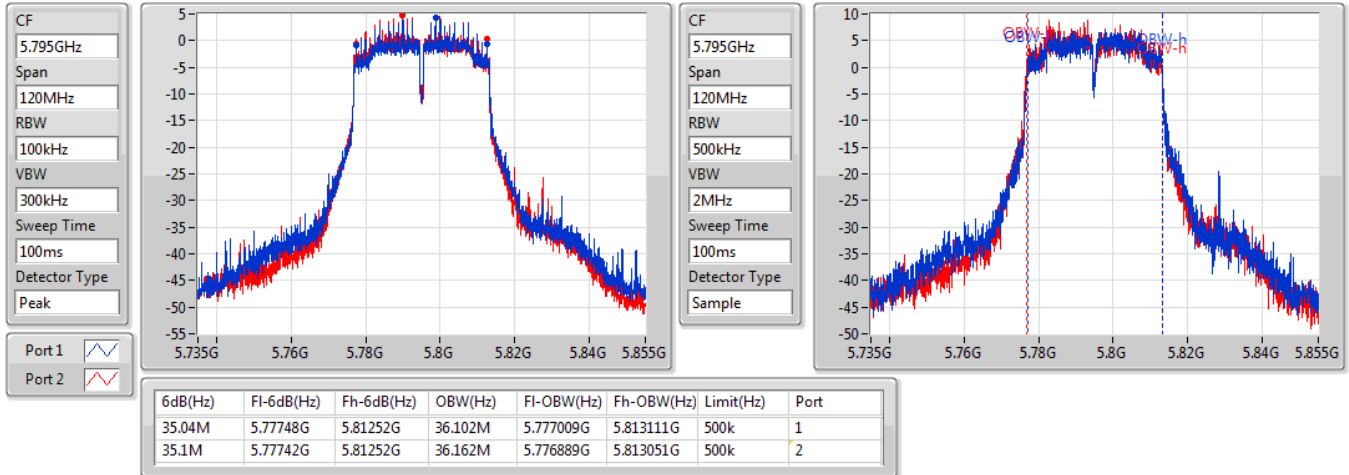

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

16/08/2019

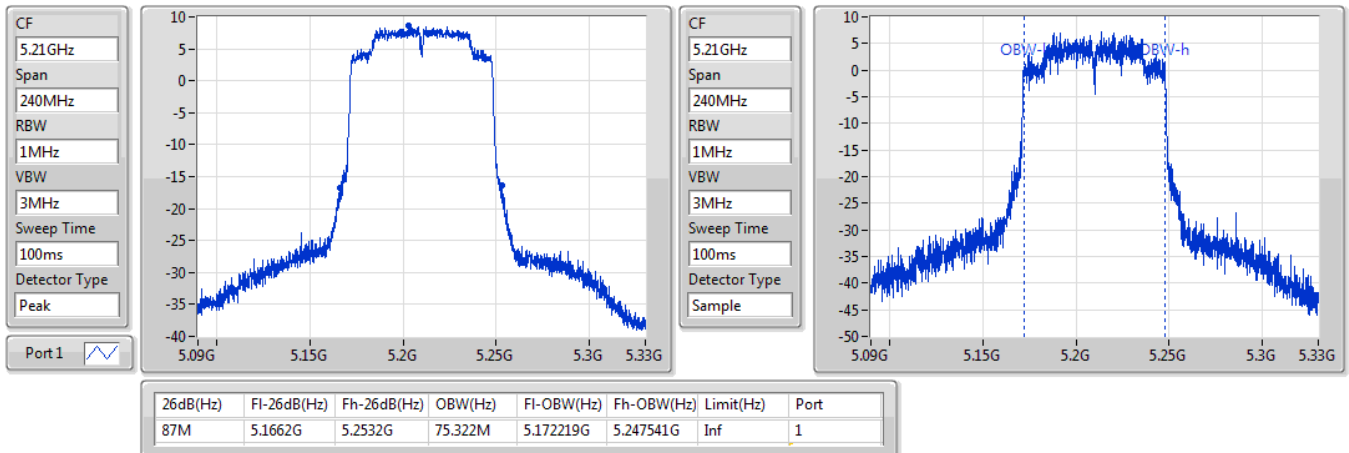


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

16/08/2019

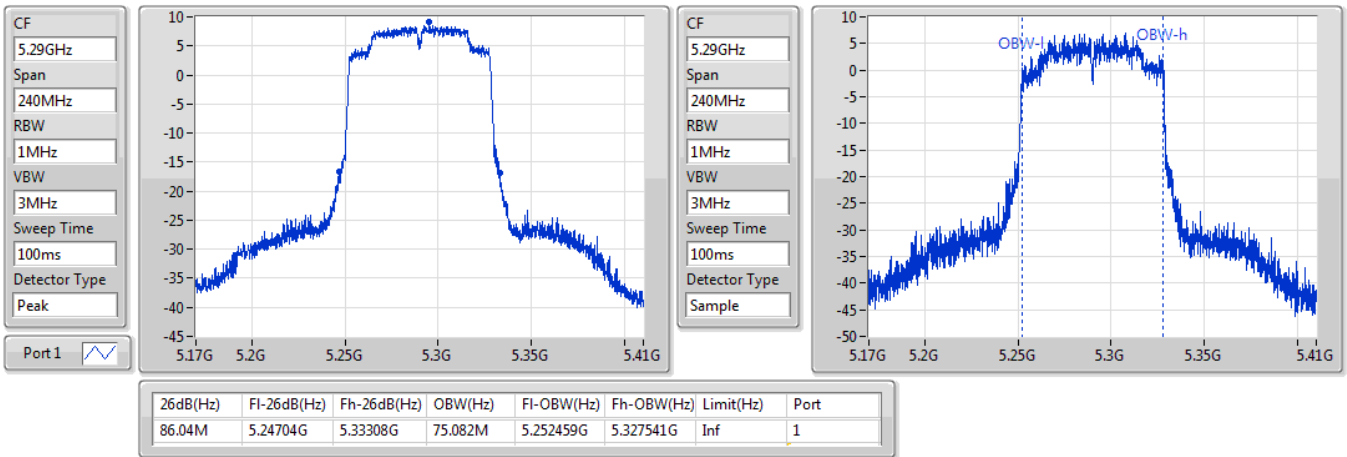

802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)
EBW
5210MHz

16/08/2019

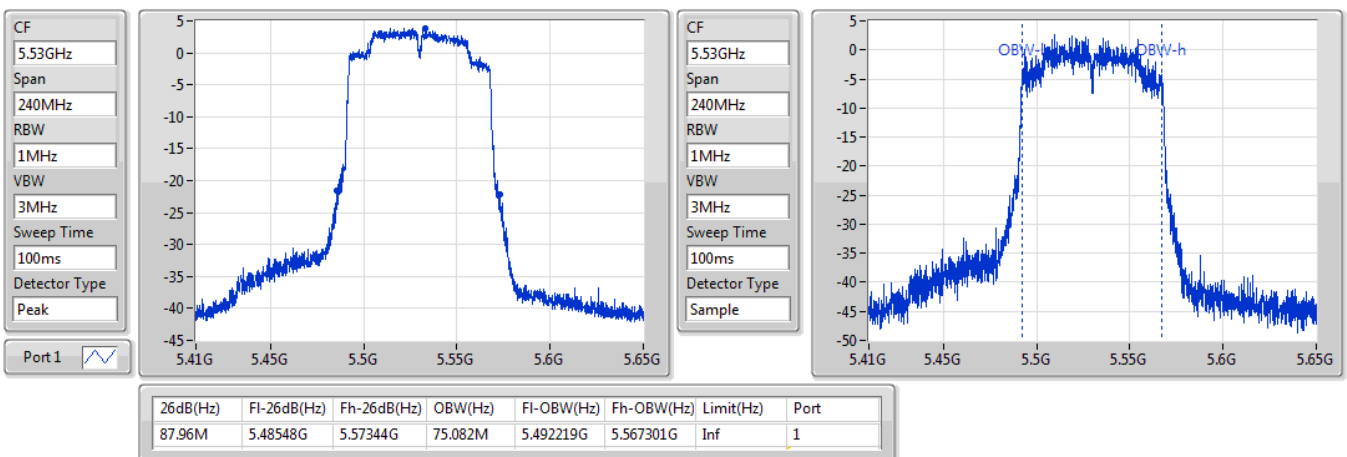


802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)
EBW
5290MHz

16/08/2019

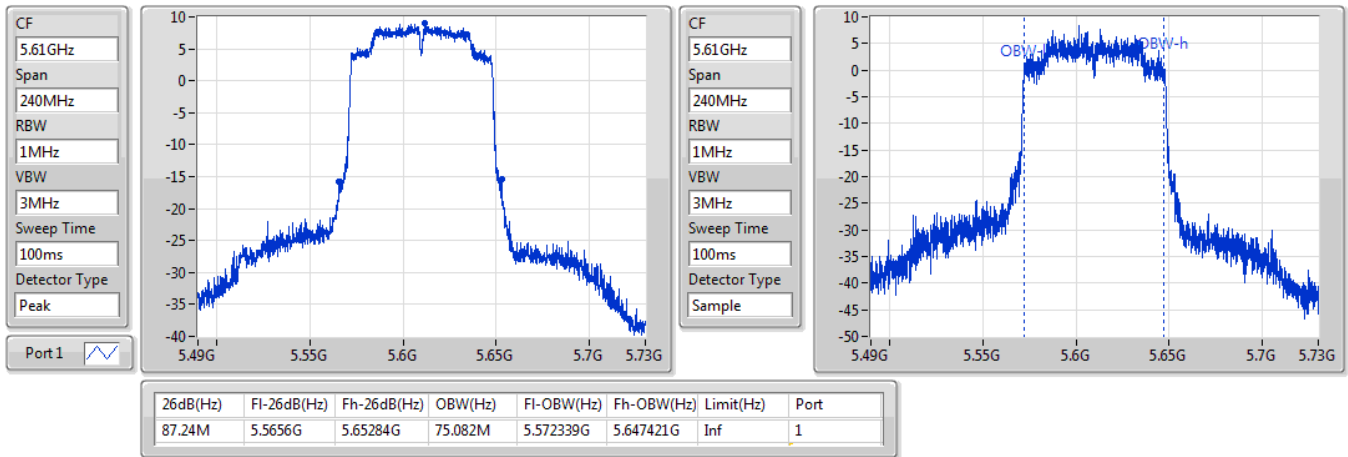

802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)
EBW
5530MHz

31/07/2019

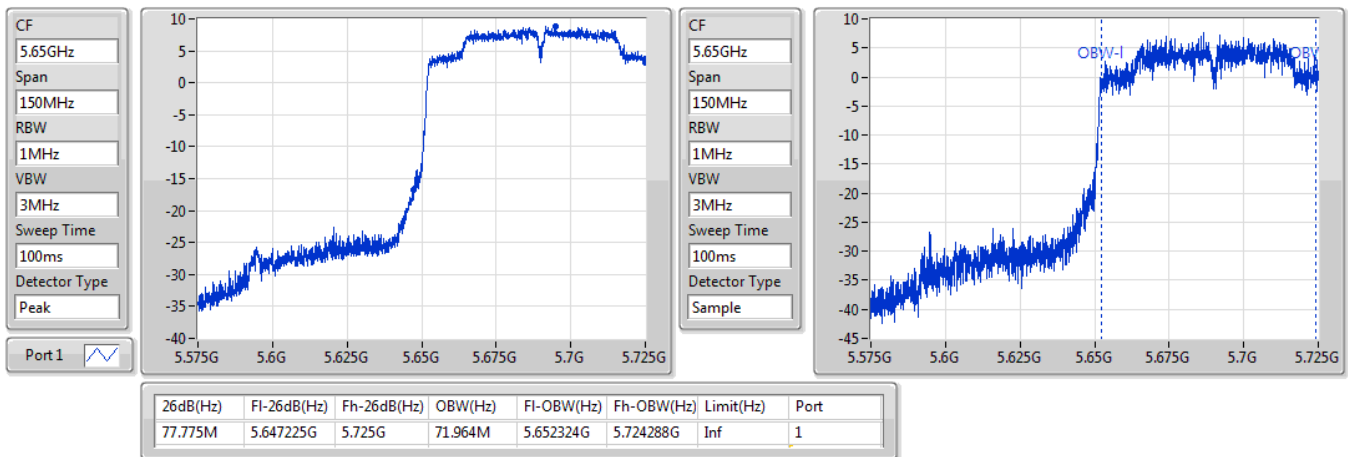


802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)
EBW
5610MHz

16/08/2019

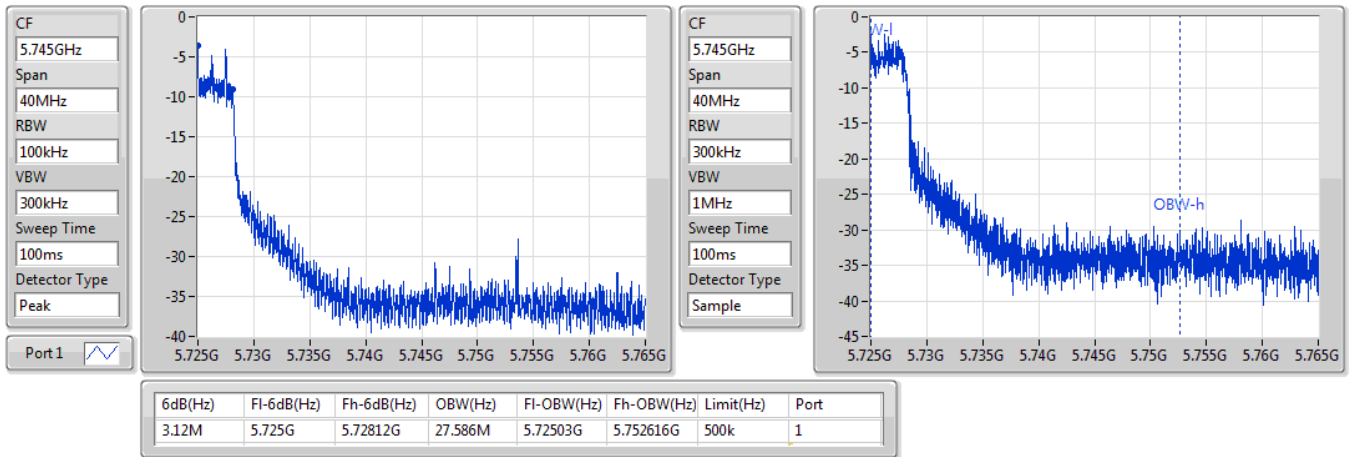

802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)
EBW
5690MHz Straddle 5.47-5.725GHz

16/08/2019

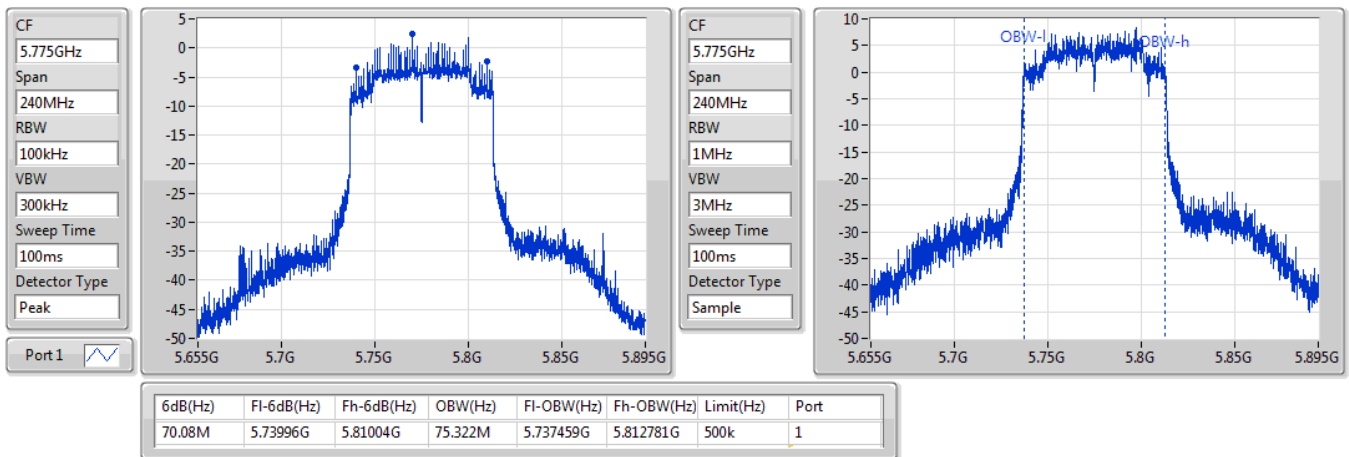


802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)
EBW
5690MHz Straddle 5.725-5.85GHz

16/08/2019

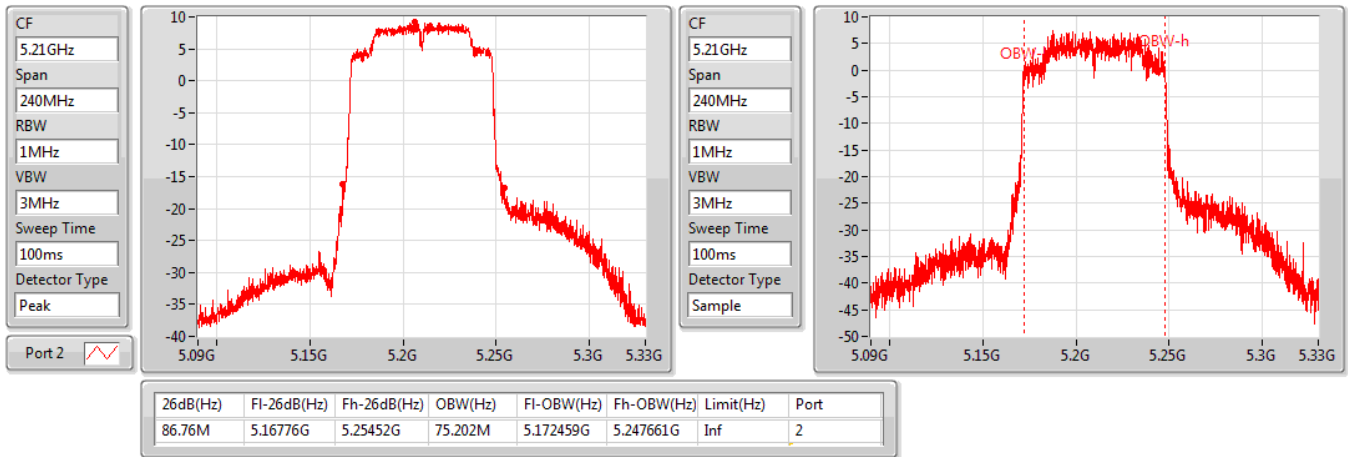

802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)
EBW
5775MHz

16/08/2019

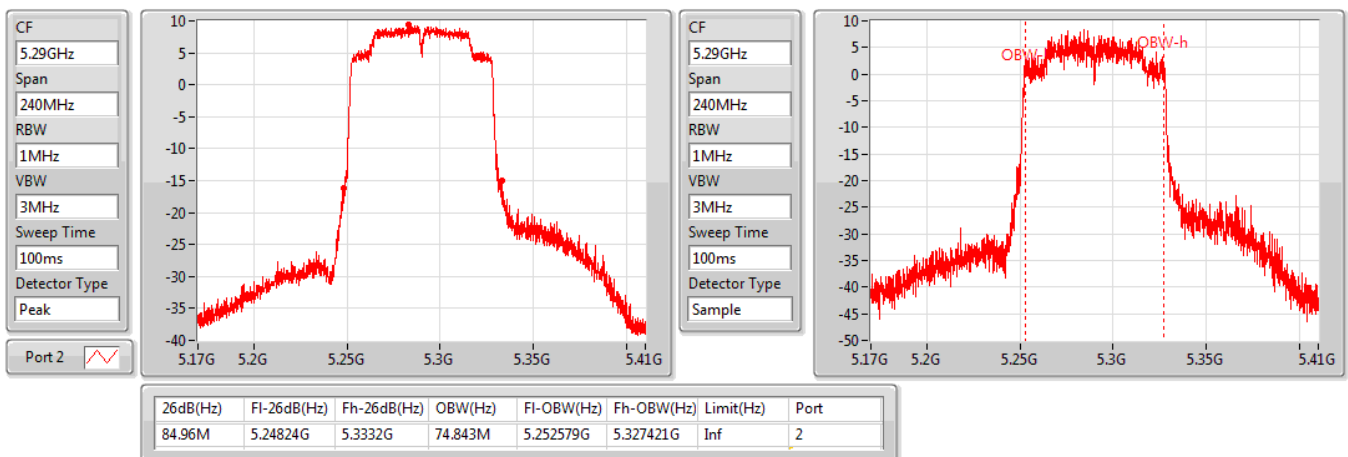


802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)
EBW
5210MHz

16/08/2019

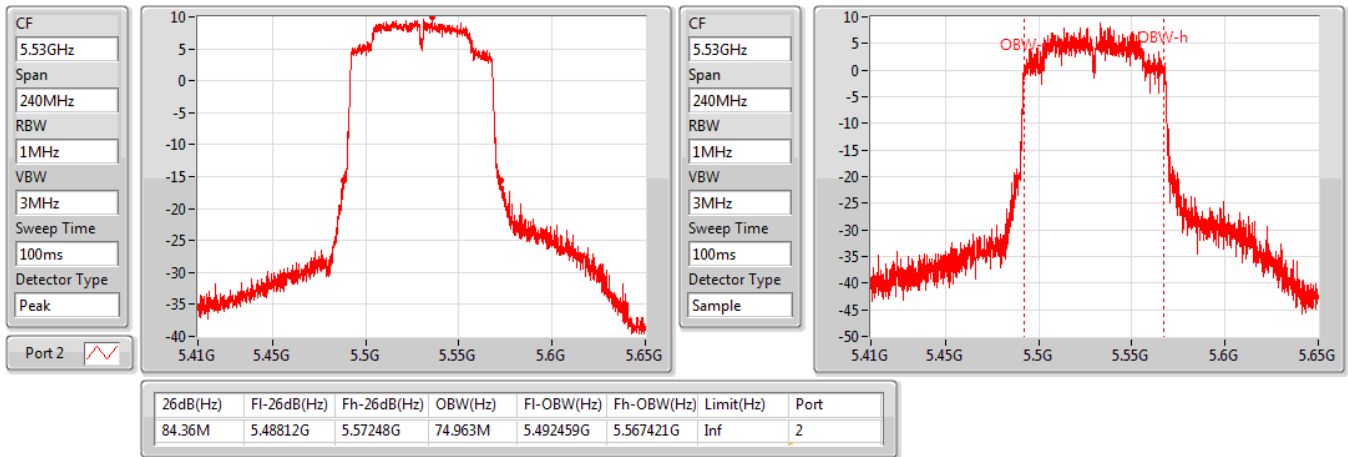

802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)
EBW
5290MHz

16/08/2019

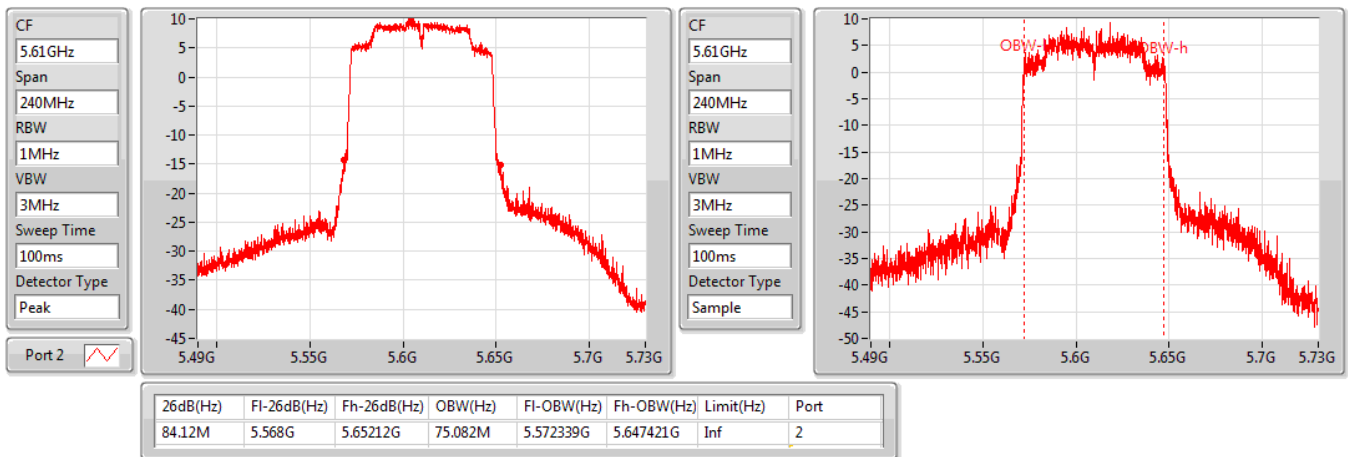


802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)
EBW
5530MHz

16/08/2019

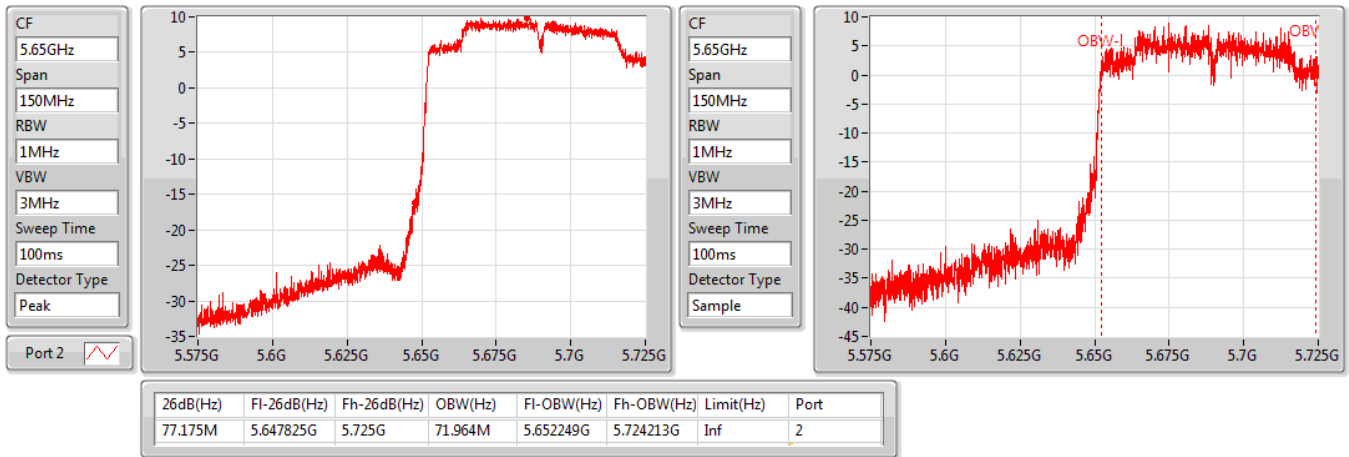

802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)
EBW
5610MHz

16/08/2019

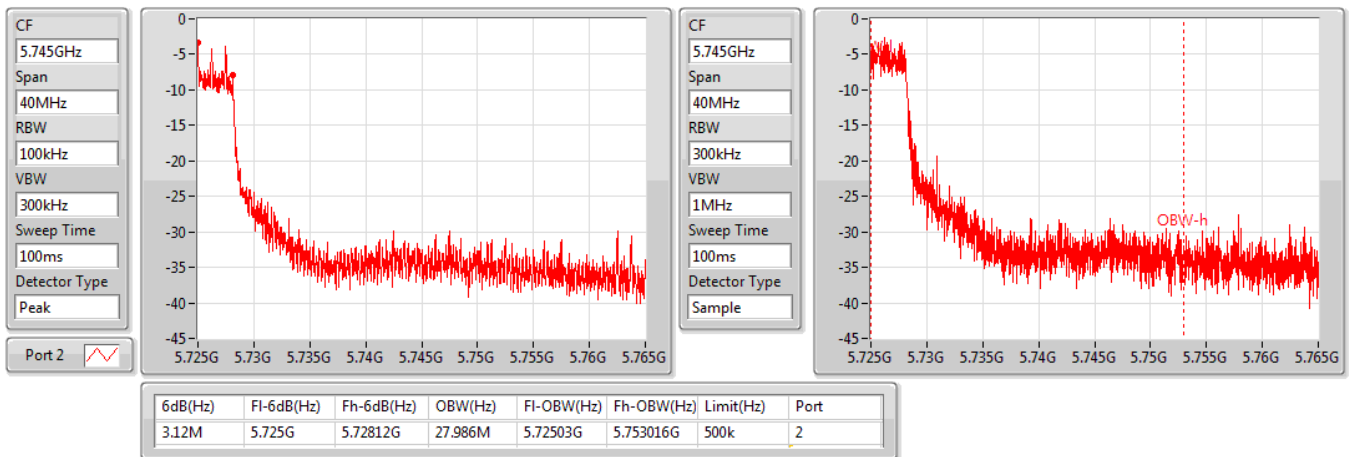


802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)
EBW
5690MHz Straddle 5.47-5.725GHz

16/08/2019

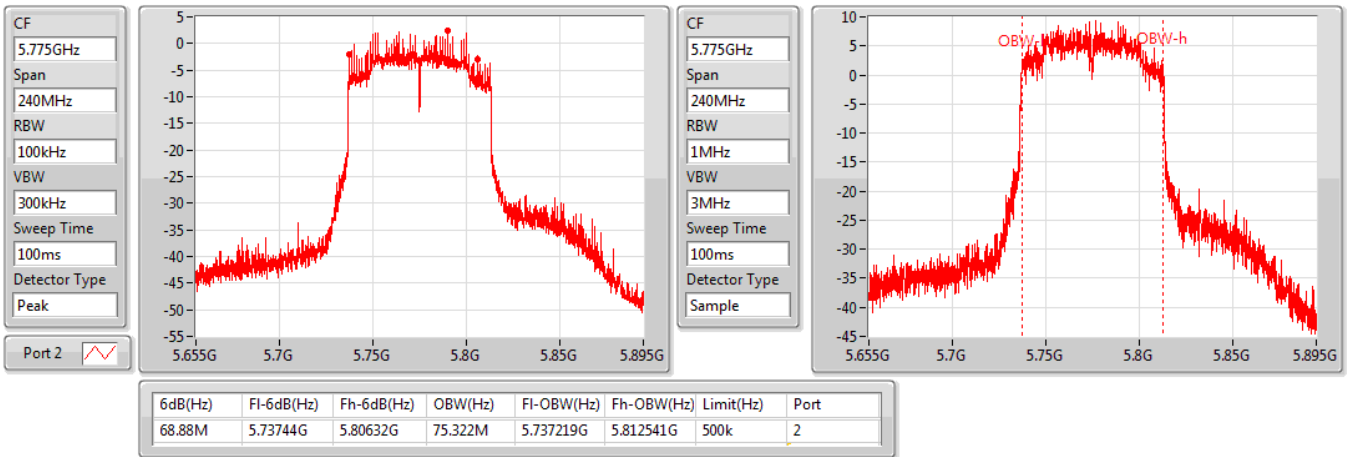

802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)
EBW
5690MHz Straddle 5.725-5.85GHz

16/08/2019

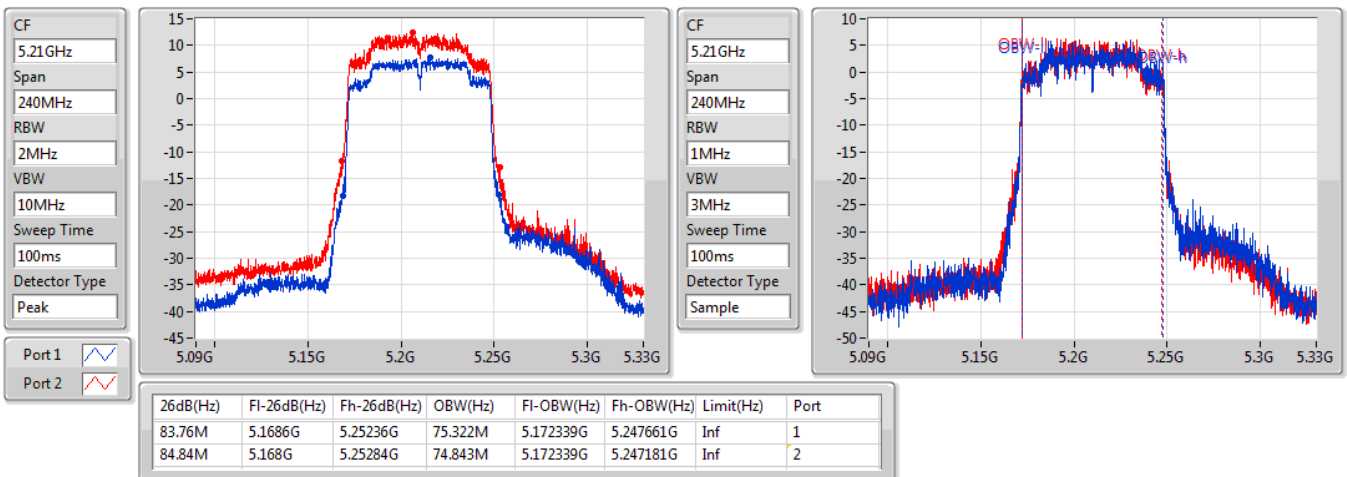


802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)
EBW
5775MHz

16/08/2019

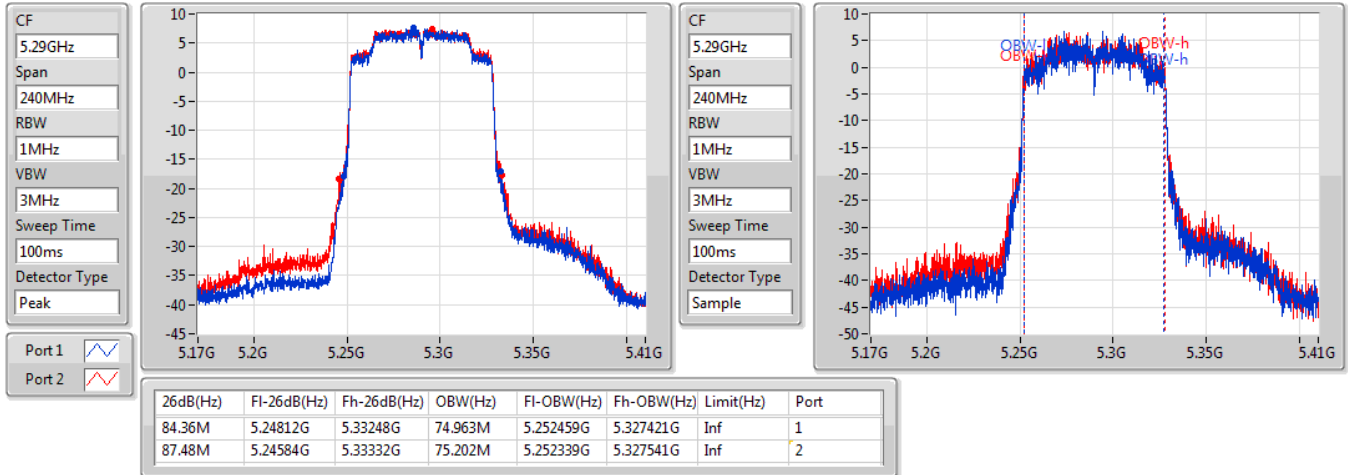

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5210MHz

16/07/2019

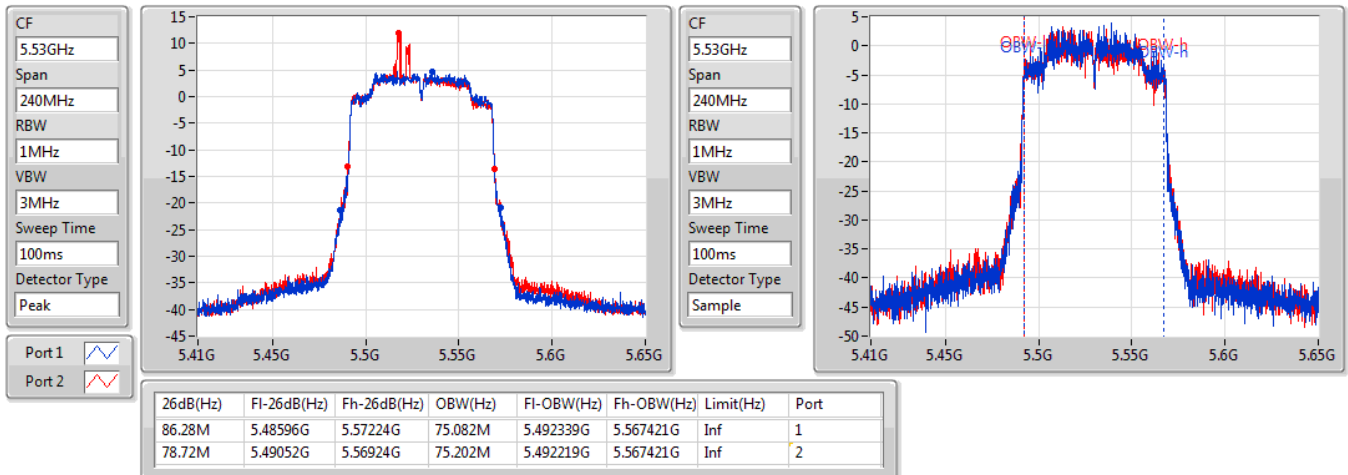


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5290MHz

16/07/2019

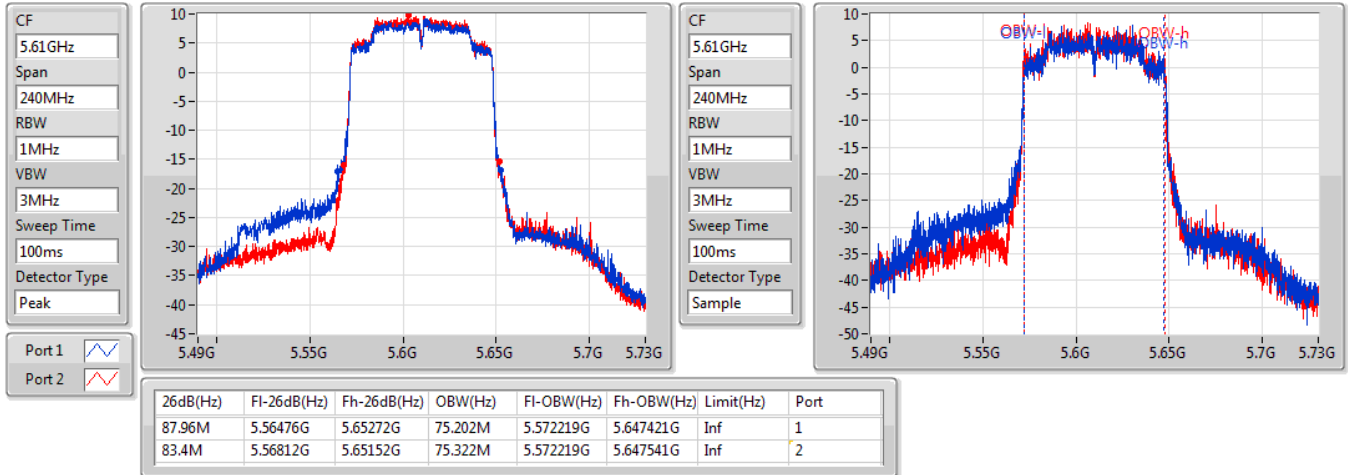

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5530MHz

16/07/2019

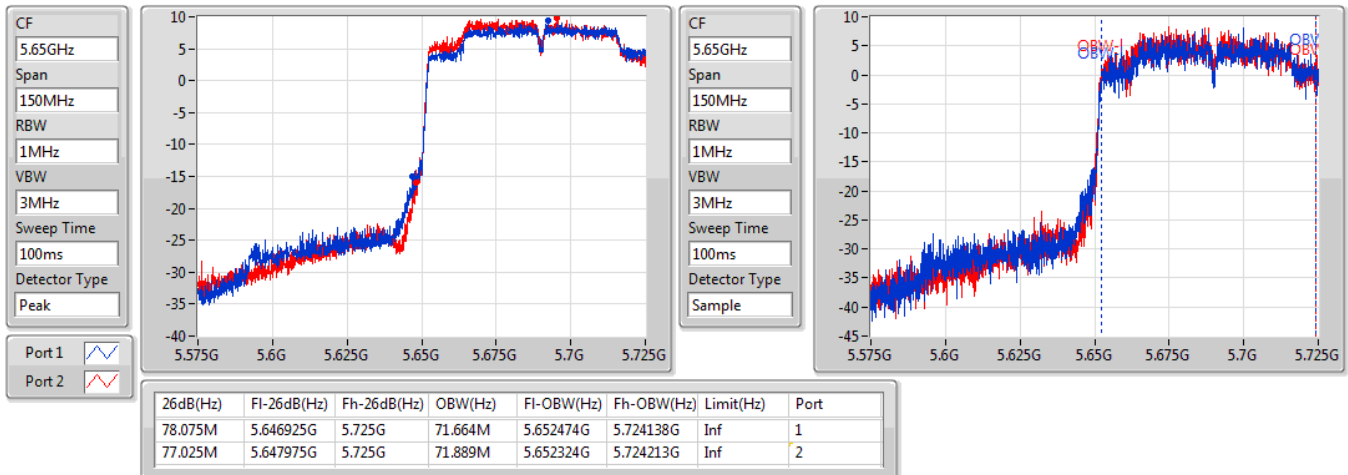


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5610MHz

16/08/2019

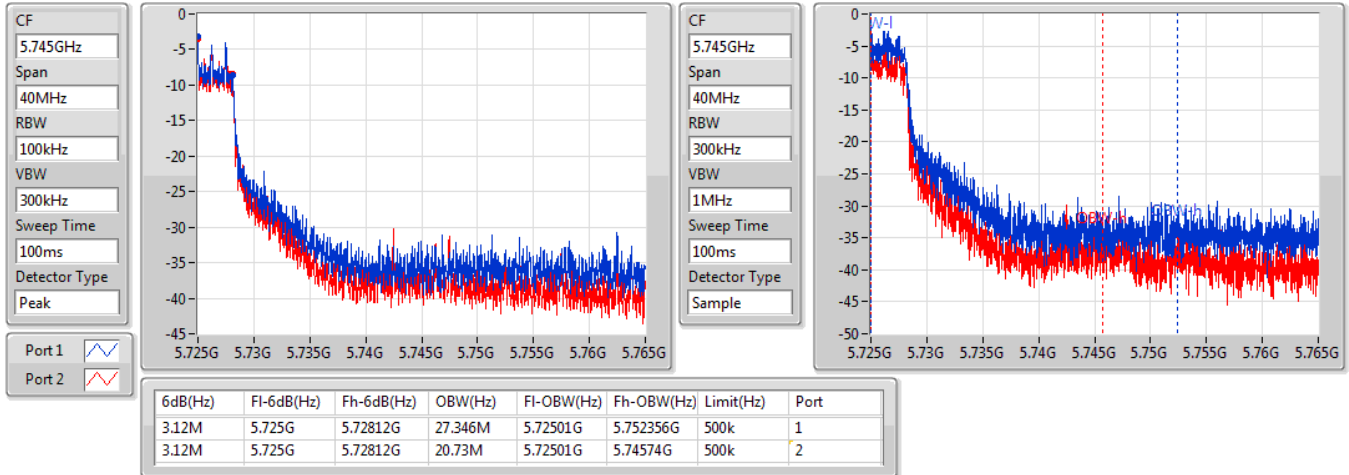

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

16/08/2019

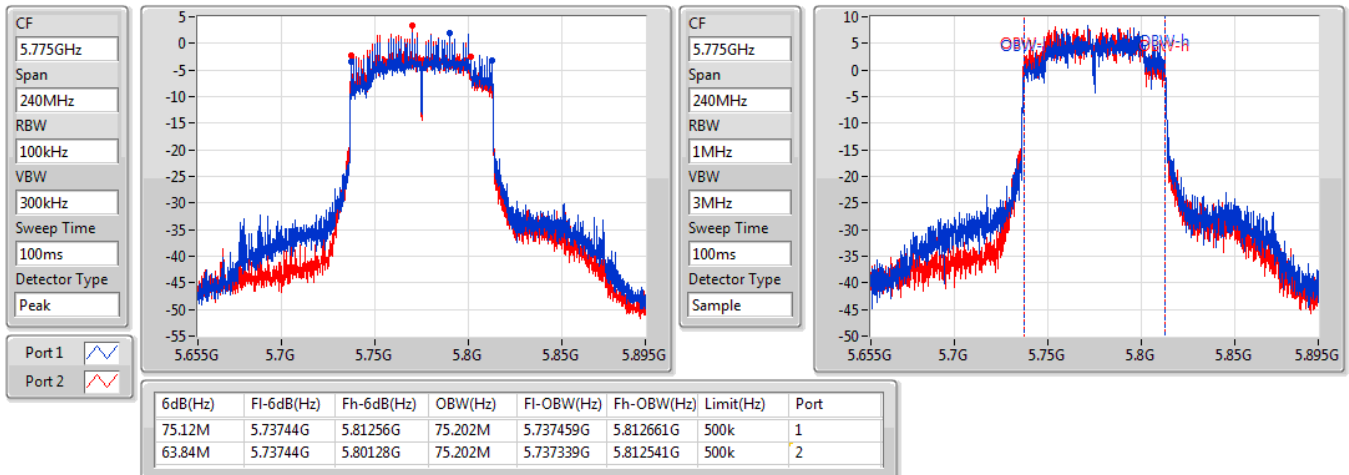


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.725-5.85GHz

16/08/2019


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5775MHz

16/08/2019



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	16.60	0.04571	20.15	0.10351
802.11a_Nss1,(6Mbps)_1TX(Port2)	17.23	0.05284	17.81	0.06039
802.11a_Nss1,(6Mbps)_2TX	19.78	0.09506	23.33	0.21528
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	16.62	0.04592	20.17	0.10399
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	17.23	0.05284	17.81	0.06039
802.11ac VHT20_Nss1,(MCS0)_2TX	19.82	0.09594	23.37	0.21727
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	16.80	0.04786	20.35	0.10839
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	17.25	0.05309	17.83	0.06067
802.11ac VHT40_Nss1,(MCS0)_2TX	19.91	0.09795	23.46	0.22182
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	15.01	0.03170	18.56	0.07178
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	17.10	0.05129	17.68	0.05861
802.11ac VHT80_Nss1,(MCS0)_2TX	18.30	0.06761	21.85	0.15311
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	16.83	0.04819	20.30	0.10715
802.11a_Nss1,(6Mbps)_1TX(Port2)	17.46	0.05572	18.04	0.06368
802.11a_Nss1,(6Mbps)_2TX	20.00	0.10000	23.47	0.22233
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	16.22	0.04188	19.69	0.09311
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	16.84	0.04831	17.42	0.05521
802.11ac VHT20_Nss1,(MCS0)_2TX	19.43	0.08770	22.90	0.19498
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	16.19	0.04159	19.66	0.09247
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	16.71	0.04688	17.29	0.05358
802.11ac VHT40_Nss1,(MCS0)_2TX	19.33	0.08570	22.80	0.19055
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	14.75	0.02985	18.22	0.06637
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	16.73	0.04710	17.31	0.05383
802.11ac VHT80_Nss1,(MCS0)_2TX	17.58	0.05728	21.05	0.12735
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	16.89	0.04887	20.03	0.10069
802.11a_Nss1,(6Mbps)_1TX(Port2)	17.70	0.05888	18.50	0.07079
802.11a_Nss1,(6Mbps)_2TX	20.14	0.10328	23.28	0.21281
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	16.24	0.04207	19.38	0.08670
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	17.12	0.05152	17.92	0.06194
802.11ac VHT20_Nss1,(MCS0)_2TX	19.61	0.09141	22.75	0.18836
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	16.24	0.04207	19.38	0.08670
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	17.12	0.05152	17.92	0.06194
802.11ac VHT40_Nss1,(MCS0)_2TX	19.62	0.09162	22.76	0.18880
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	16.26	0.04227	19.40	0.08710
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	17.15	0.05188	17.95	0.06237
802.11ac VHT80_Nss1,(MCS0)_2TX	19.66	0.09247	22.80	0.19055
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	17.48	0.05598	20.28	0.10666
802.11a_Nss1,(6Mbps)_1TX(Port2)	18.35	0.06839	19.46	0.08831
802.11a_Nss1,(6Mbps)_2TX	20.78	0.11967	23.58	0.22803
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	16.73	0.04710	19.53	0.08974

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	17.79	0.06012	18.90	0.07762
802.11ac VHT20_Nss1,(MCS0)_2TX	20.23	0.10544	23.03	0.20091
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	16.70	0.04677	19.50	0.08913
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	17.78	0.05998	18.89	0.07745
802.11ac VHT40_Nss1,(MCS0)_2TX	20.09	0.10209	22.89	0.19454
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	16.62	0.04592	19.42	0.08750
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	17.56	0.05702	18.67	0.07362
802.11ac VHT80_Nss1,(MCS0)_2TX	19.88	0.09727	22.68	0.18535

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-
5180MHz	Pass	3.55	16.60		16.60	24.00	20.15	30.00
5200MHz	Pass	3.55	16.42		16.42	24.00	19.97	30.00
5240MHz	Pass	3.55	16.40		16.40	24.00	19.95	30.00
5260MHz	Pass	3.47	16.67		16.67	24.00	20.14	30.00
5300MHz	Pass	3.47	16.83		16.83	24.00	20.30	30.00
5320MHz	Pass	3.47	15.65		15.65	24.00	19.12	30.00
5500MHz	Pass	3.14	16.52		16.52	24.00	19.66	30.00
5580MHz	Pass	3.14	16.89		16.89	24.00	20.03	30.00
5700MHz	Pass	3.14	16.77		16.77	24.00	19.91	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.14	16.86		16.86	23.39	20.00	29.39
5720MHz Straddle 5.725-5.85GHz	Pass	2.80	8.35		8.35	30.00	11.15	36.00
5745MHz	Pass	2.80	17.48		17.48	30.00	20.28	36.00
5785MHz	Pass	2.80	17.46		17.46	30.00	20.26	36.00
5825MHz	Pass	2.80	17.34		17.34	30.00	20.14	36.00
802.11a_Nss1,(6Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-
5180MHz	Pass	0.58		17.23	17.23	24.00	17.81	30.00
5200MHz	Pass	0.58		17.21	17.21	24.00	17.79	30.00
5240MHz	Pass	0.58		17.17	17.17	24.00	17.75	30.00
5260MHz	Pass	0.58		17.46	17.46	24.00	18.04	30.00
5300MHz	Pass	0.58		17.30	17.30	24.00	17.88	30.00
5320MHz	Pass	0.58		17.17	17.17	24.00	17.75	30.00
5500MHz	Pass	0.80		17.58	17.58	24.00	18.38	30.00
5580MHz	Pass	0.80		17.70	17.70	24.00	18.50	30.00
5700MHz	Pass	0.80		17.63	17.63	24.00	18.43	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.80		17.26	17.26	23.33	18.06	29.33
5720MHz Straddle 5.725-5.85GHz	Pass	1.11		9.27	9.27	30.00	10.38	36.00
5745MHz	Pass	1.11		18.33	18.33	30.00	19.44	36.00
5785MHz	Pass	1.11		18.30	18.30	30.00	19.41	36.00
5825MHz	Pass	1.11		18.35	18.35	30.00	19.46	36.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.55	16.76	16.68	19.73	24.00	23.28	30.00
5200MHz	Pass	3.55	16.77	16.76	19.78	24.00	23.33	30.00
5240MHz	Pass	3.55	16.72	16.78	19.76	24.00	23.31	30.00
5260MHz	Pass	3.47	17.02	16.83	19.94	24.00	23.41	30.00
5300MHz	Pass	3.47	16.98	16.99	20.00	24.00	23.47	30.00
5320MHz	Pass	3.47	15.88	15.92	18.91	24.00	22.38	30.00
5500MHz	Pass	3.14	16.93	16.94	19.95	24.00	23.09	30.00
5580MHz	Pass	3.14	17.12	17.07	20.11	24.00	23.25	30.00
5700MHz	Pass	3.14	17.19	17.06	20.14	24.00	23.28	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.14	16.99	16.90	19.96	23.35	23.10	29.35
5720MHz Straddle 5.725-5.85GHz	Pass	2.80	8.56	8.81	11.70	30.00	14.50	36.00
5745MHz	Pass	2.80	17.60	17.67	20.65	30.00	23.45	36.00
5785MHz	Pass	2.80	17.65	17.88	20.78	30.00	23.58	36.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5825MHz	Pass	2.80	17.68	17.67	20.69	30.00	23.49	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-
5180MHz	Pass	3.55	16.62		16.62	24.00	20.17	30.00
5200MHz	Pass	3.55	16.48		16.48	24.00	20.03	30.00
5240MHz	Pass	3.55	16.58		16.58	24.00	20.13	30.00
5260MHz	Pass	3.47	16.19		16.19	24.00	19.66	30.00
5300MHz	Pass	3.47	16.22		16.22	24.00	19.69	30.00
5320MHz	Pass	3.47	15.45		15.45	24.00	18.92	30.00
5500MHz	Pass	3.14	16.24		16.24	24.00	19.38	30.00
5580MHz	Pass	3.14	16.24		16.24	24.00	19.38	30.00
5700MHz	Pass	3.14	16.21		16.21	24.00	19.35	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.14	16.04		16.04	23.33	19.18	29.33
5720MHz Straddle 5.725-5.85GHz	Pass	2.80	8.92		8.92	30.00	11.72	36.00
5745MHz	Pass	2.80	16.68		16.68	30.00	19.48	36.00
5785MHz	Pass	2.80	16.71		16.71	30.00	19.51	36.00
5825MHz	Pass	2.80	16.73		16.73	30.00	19.53	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-
5180MHz	Pass	0.58		17.12	17.12	24.00	17.70	30.00
5200MHz	Pass	0.58		17.11	17.11	24.00	17.69	30.00
5240MHz	Pass	0.58		17.23	17.23	24.00	17.81	30.00
5260MHz	Pass	0.58		16.67	16.67	24.00	17.25	30.00
5300MHz	Pass	0.58		16.84	16.84	24.00	17.42	30.00
5320MHz	Pass	0.58		16.80	16.80	24.00	17.38	30.00
5500MHz	Pass	0.80		16.94	16.94	24.00	17.74	30.00
5580MHz	Pass	0.80		17.02	17.02	24.00	17.82	30.00
5700MHz	Pass	0.80		17.12	17.12	24.00	17.92	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.80		17.12	17.12	23.30	17.92	29.30
5720MHz Straddle 5.725-5.85GHz	Pass	1.11		10.01	10.01	30.00	11.12	36.00
5745MHz	Pass	1.11		17.50	17.50	30.00	18.61	36.00
5785MHz	Pass	1.11		17.79	17.79	30.00	18.90	36.00
5825MHz	Pass	1.11		17.71	17.71	30.00	18.82	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.55	16.81	16.81	19.82	24.00	23.37	30.00
5200MHz	Pass	3.55	16.66	16.75	19.72	24.00	23.27	30.00
5240MHz	Pass	3.55	16.73	16.71	19.73	24.00	23.28	30.00
5260MHz	Pass	3.47	16.39	16.42	19.42	24.00	22.89	30.00
5300MHz	Pass	3.47	16.38	16.46	19.43	24.00	22.90	30.00
5320MHz	Pass	3.47	15.05	15.26	18.17	24.00	21.64	30.00
5500MHz	Pass	3.14	16.56	16.57	19.58	24.00	22.72	30.00
5580MHz	Pass	3.14	16.54	16.59	19.58	24.00	22.72	30.00
5700MHz	Pass	3.14	16.58	16.62	19.61	24.00	22.75	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.14	16.55	16.58	19.58	23.31	22.72	29.31
5720MHz Straddle 5.725-5.85GHz	Pass	2.80	9.34	9.30	12.33	30.00	15.13	36.00
5745MHz	Pass	2.80	16.78	16.61	19.71	30.00	22.51	36.00
5785MHz	Pass	2.80	16.97	17.00	20.00	30.00	22.80	36.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5825MHz	Pass	2.80	17.29	17.14	20.23	30.00	23.03	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-
5190MHz	Pass	3.55	16.27		16.27	24.00	19.82	30.00
5230MHz	Pass	3.55	16.80		16.80	24.00	20.35	30.00
5270MHz	Pass	3.47	16.19		16.19	24.00	19.66	30.00
5310MHz	Pass	3.47	16.01		16.01	24.00	19.48	30.00
5510MHz	Pass	3.14	14.35		14.35	24.00	17.49	30.00
5550MHz	Pass	3.14	16.21		16.21	24.00	19.35	30.00
5670MHz	Pass	3.14	16.24		16.24	24.00	19.38	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.14	16.16		16.16	24.00	19.30	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	2.80	4.03		4.03	30.00	6.83	36.00
5755MHz	Pass	2.80	16.62		16.62	30.00	19.42	36.00
5795MHz	Pass	2.80	16.70		16.70	30.00	19.50	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-
5190MHz	Pass	0.58		17.15	17.15	24.00	17.73	30.00
5230MHz	Pass	0.58		17.25	17.25	24.00	17.83	30.00
5270MHz	Pass	0.58		16.58	16.58	24.00	17.16	30.00
5310MHz	Pass	0.58		16.71	16.71	24.00	17.29	30.00
5510MHz	Pass	0.80		17.12	17.12	24.00	17.92	30.00
5550MHz	Pass	0.80		17.06	17.06	24.00	17.86	30.00
5670MHz	Pass	0.80		16.98	16.98	24.00	17.78	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	0.80		17.10	17.10	24.00	17.90	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	1.11		4.74	4.74	30.00	5.85	36.00
5755MHz	Pass	1.11		17.70	17.70	30.00	18.81	36.00
5795MHz	Pass	1.11		17.78	17.78	30.00	18.89	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.55	16.25	16.81	19.55	24.00	23.10	30.00
5230MHz	Pass	3.55	16.92	16.87	19.91	24.00	23.46	30.00
5270MHz	Pass	3.47	16.32	16.31	19.33	24.00	22.80	30.00
5310MHz	Pass	3.47	15.60	16.09	18.86	24.00	22.33	30.00
5510MHz	Pass	3.14	15.92	15.93	18.94	24.00	22.08	30.00
5550MHz	Pass	3.14	16.68	16.53	19.62	24.00	22.76	30.00
5670MHz	Pass	3.14	16.64	16.57	19.62	24.00	22.76	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.14	16.41	16.52	19.48	24.00	22.62	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	2.80	4.22	4.28	7.26	30.00	10.06	36.00
5755MHz	Pass	2.80	16.93	16.81	19.88	30.00	22.68	36.00
5795MHz	Pass	2.80	17.11	17.05	20.09	30.00	22.89	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-
5210MHz	Pass	3.55	15.01		15.01	24.00	18.56	30.00
5290MHz	Pass	3.47	14.75		14.75	24.00	18.22	30.00
5530MHz	Pass	3.14	11.94		11.94	24.00	15.08	30.00
5610MHz	Pass	3.14	16.22		16.22	24.00	19.36	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.14	16.26		16.26	24.00	19.40	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	2.80	-0.04		-0.04	30.00	2.76	36.00
5775MHz	Pass	2.80	16.62		16.62	30.00	19.42	36.00

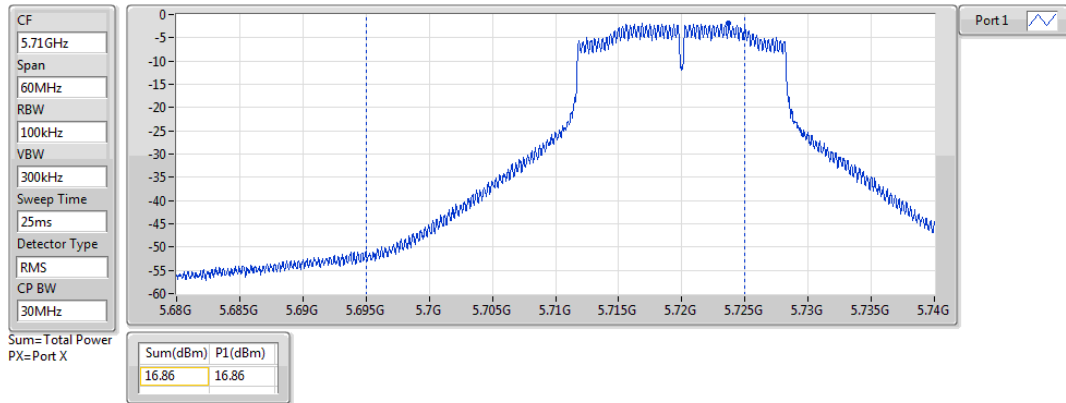
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-
5210MHz	Pass	0.58		17.10	17.10	24.00	17.68	30.00
5290MHz	Pass	0.58		16.73	16.73	24.00	17.31	30.00
5530MHz	Pass	0.80		16.94	16.94	24.00	17.74	30.00
5610MHz	Pass	0.80		17.13	17.13	24.00	17.93	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	0.80		17.15	17.15	24.00	17.95	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	1.11		0.17	0.17	30.00	1.28	36.00
5775MHz	Pass	1.11		17.56	17.56	30.00	18.67	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.55	15.09	15.48	18.30	24.00	21.85	30.00
5290MHz	Pass	3.47	14.25	14.86	17.58	24.00	21.05	30.00
5530MHz	Pass	3.14	11.55	11.52	14.55	24.00	17.69	30.00
5610MHz	Pass	3.14	16.47	16.53	19.51	24.00	22.65	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.14	16.74	16.55	19.66	24.00	22.80	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	2.80	0.24	-0.58	2.86	30.00	5.66	36.00
5775MHz	Pass	2.80	16.92	16.81	19.88	30.00	22.68	36.00

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

802.11a_Nss1,(6Mbps)_1TX(Port1)

AV Power

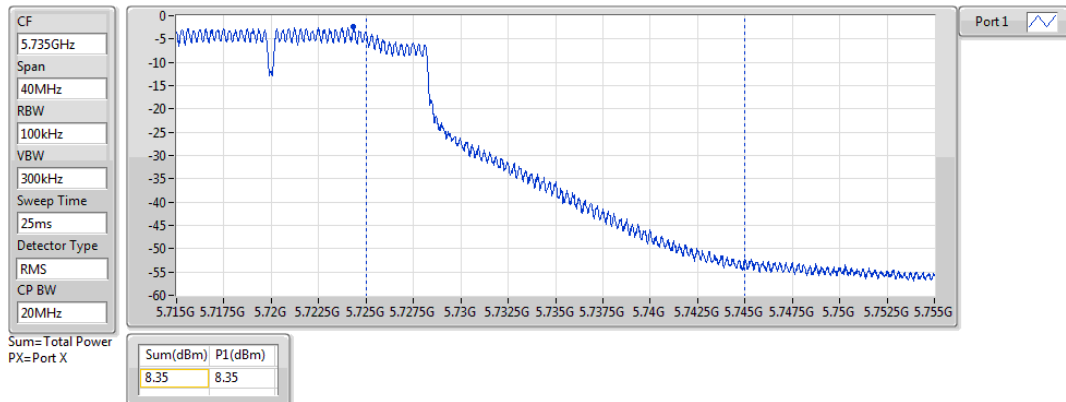
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_1TX(Port1)

AV Power

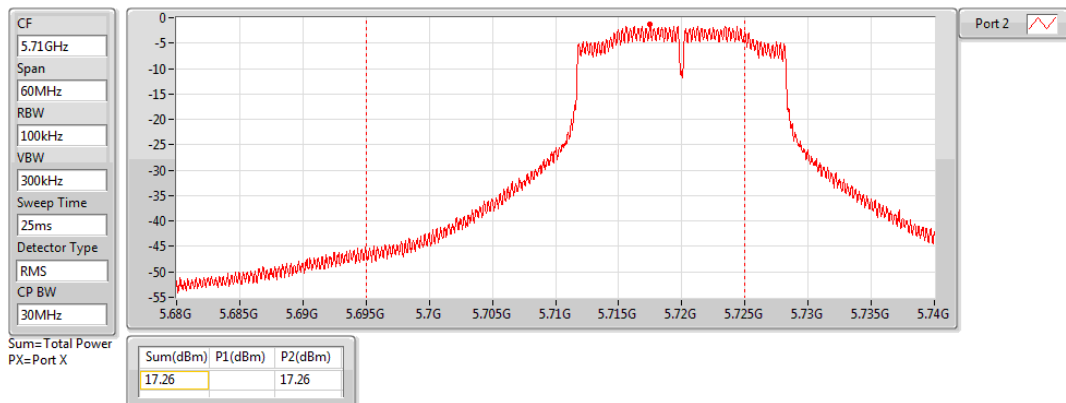
5720MHz Straddle 5.725-5.85GHz



802.11a_Nss1,(6Mbps)_1TX(Port2)

AV Power

5720MHz Straddle 5.47-5.725GHz

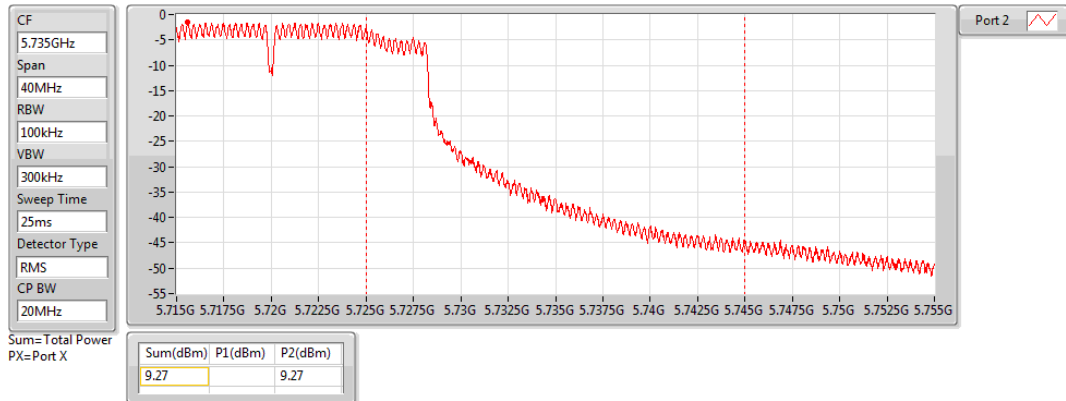


802.11a_Nss1,(6Mbps)_1TX(Port2)

AV Power

5720MHz Straddle 5.725-5.85GHz

16/08/2019

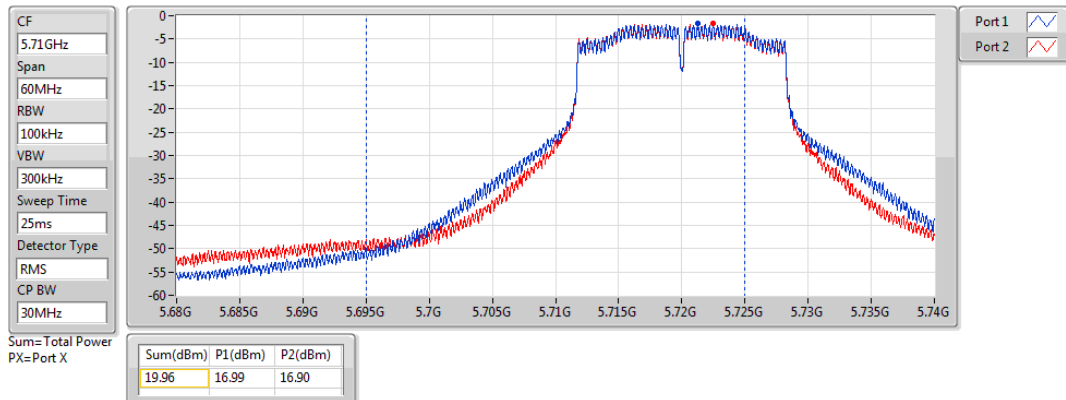


802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

16/08/2019

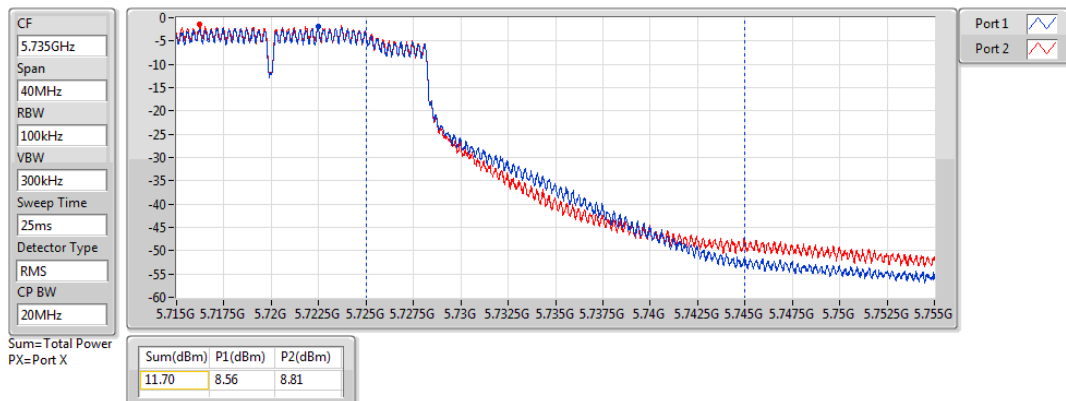


802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

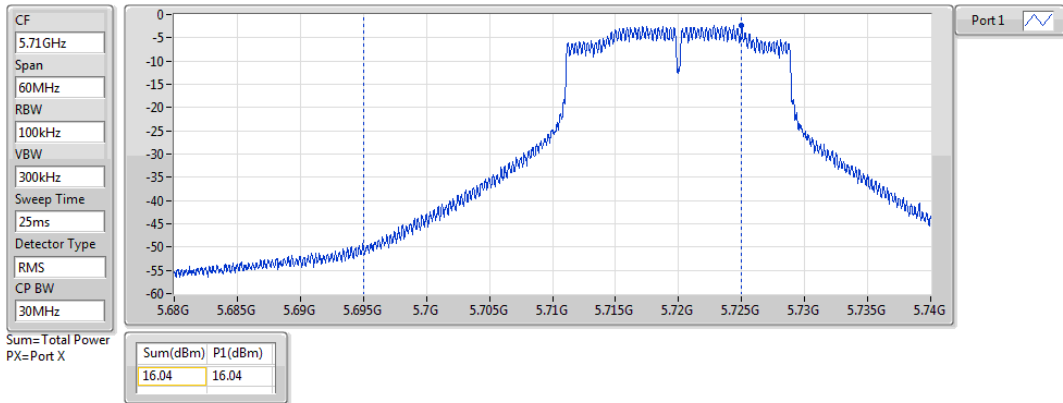
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802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

AV Power

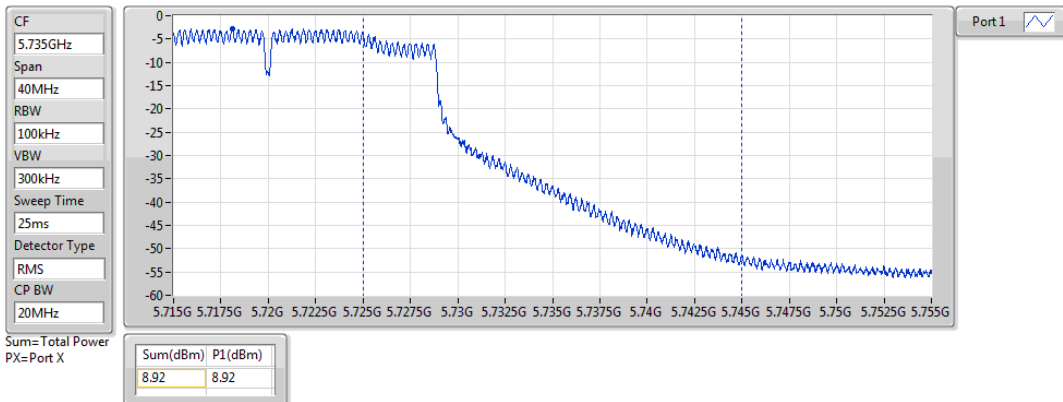
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

AV Power

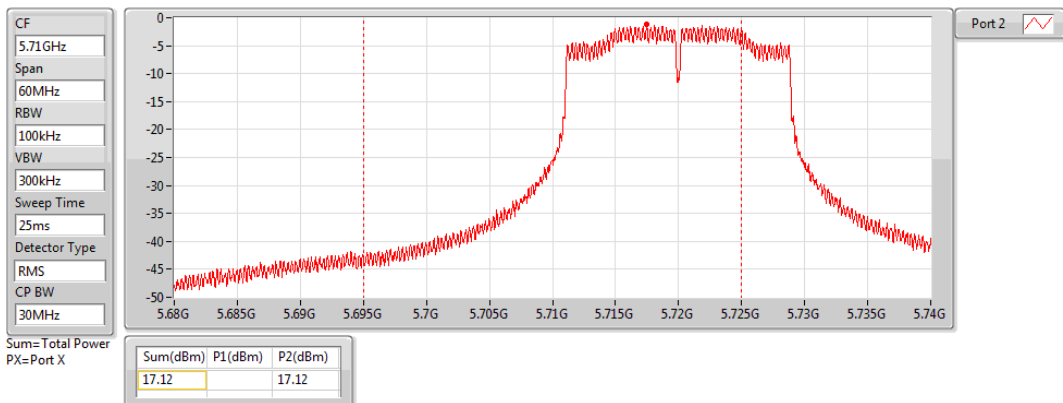
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

AV Power

5720MHz Straddle 5.47-5.725GHz

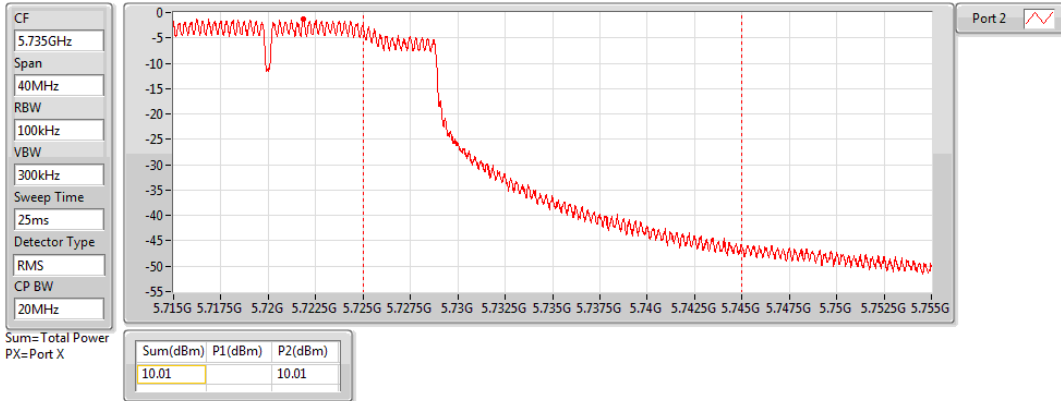


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

AV Power

5720MHz Straddle 5.725-5.85GHz

16/08/2019

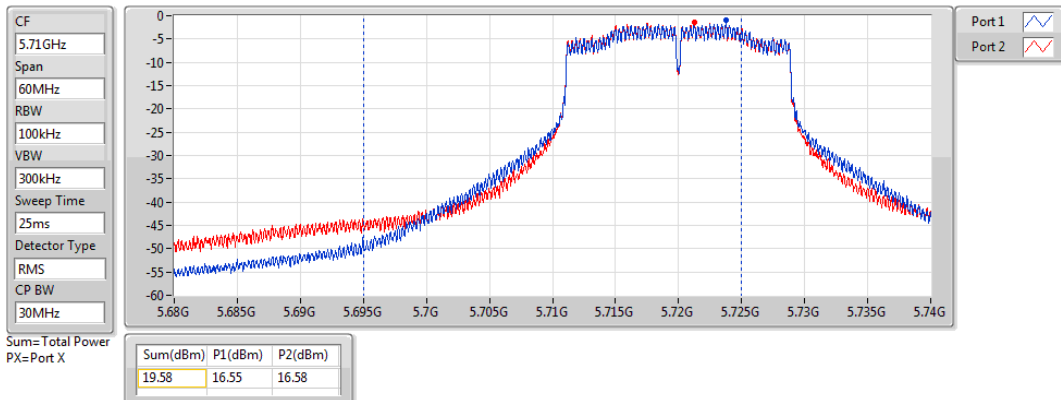


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

16/08/2019

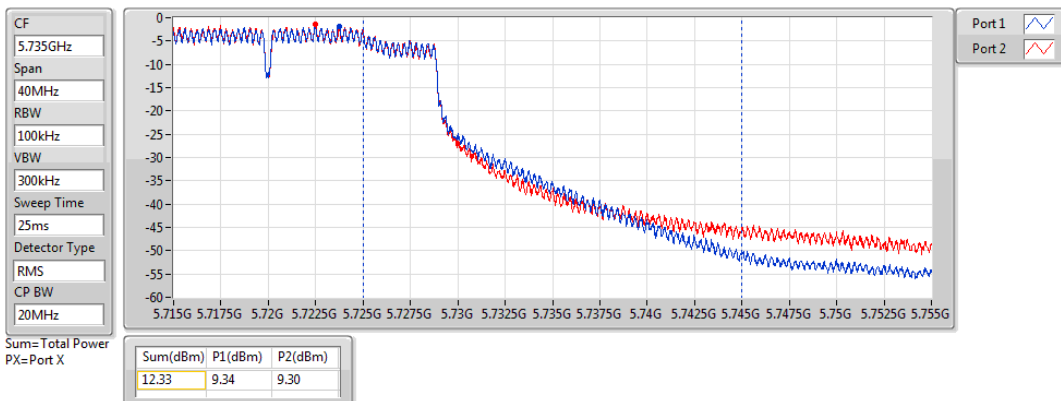


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

16/08/2019

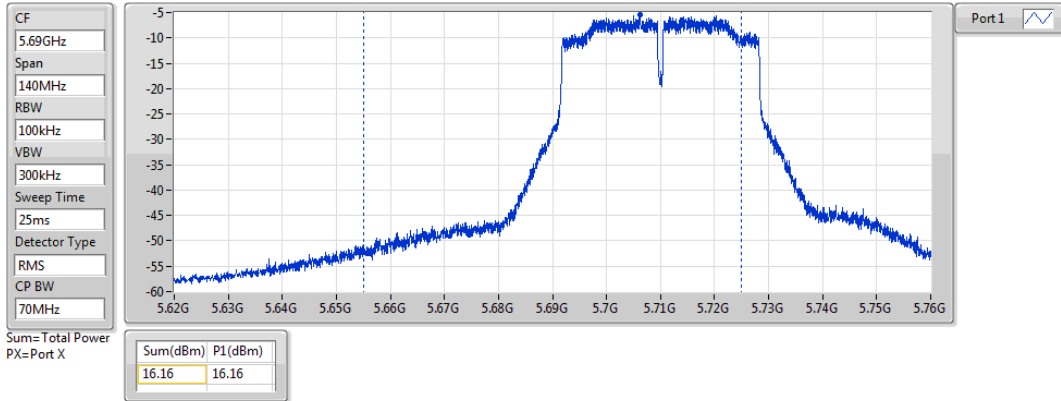


802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)

AV Power

5710MHz Straddle 5.47-5.725GHz

16/08/2019

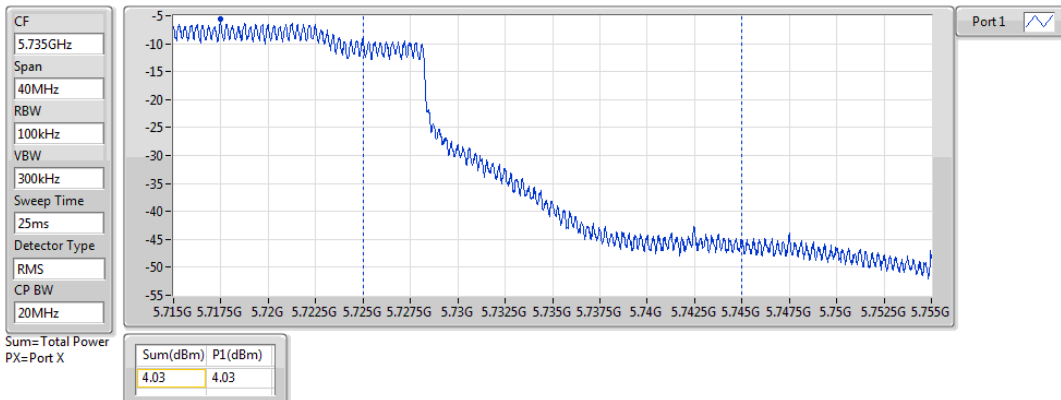


802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)

AV Power

5710MHz Straddle 5.725-5.85GHz

16/08/2019

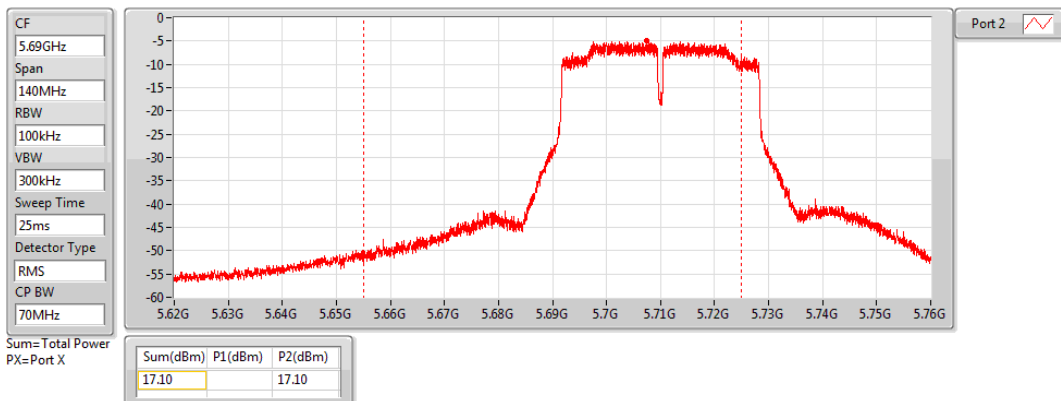


802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)

AV Power

5710MHz Straddle 5.47-5.725GHz

16/08/2019

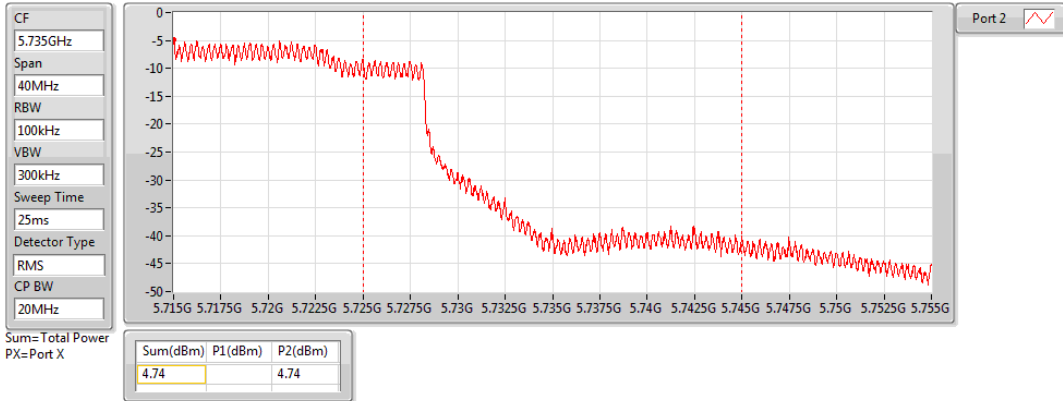


802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)

AV Power

5710MHz Straddle 5.725-5.85GHz

16/08/2019

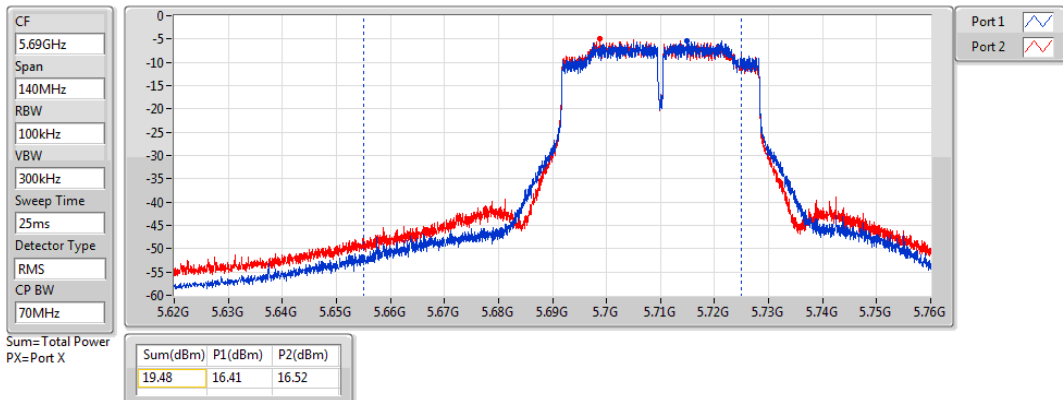


802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz

16/08/2019

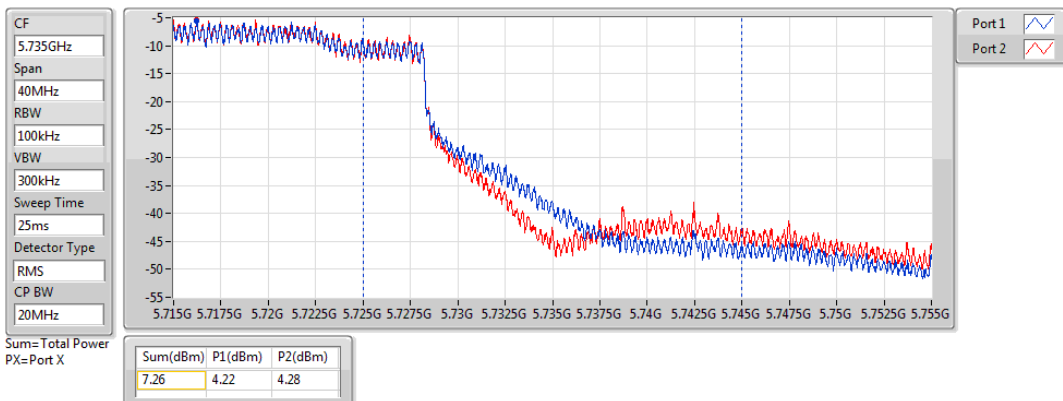


802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz

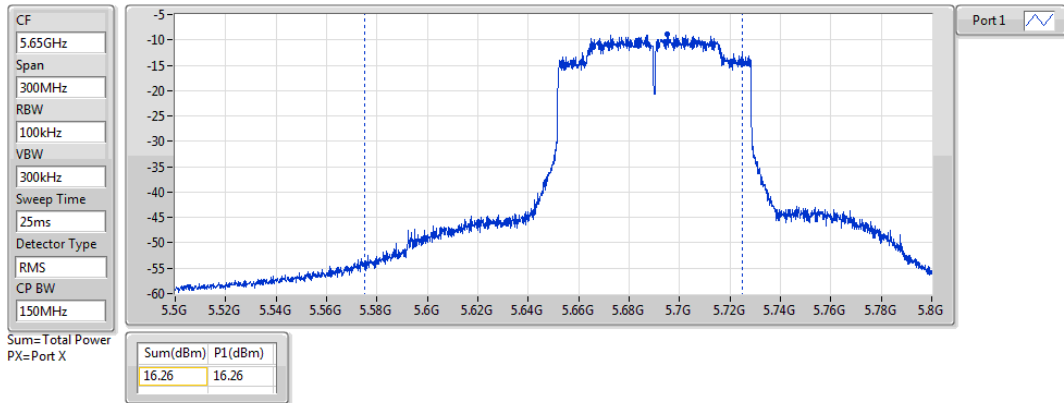
16/08/2019



802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)

AV Power

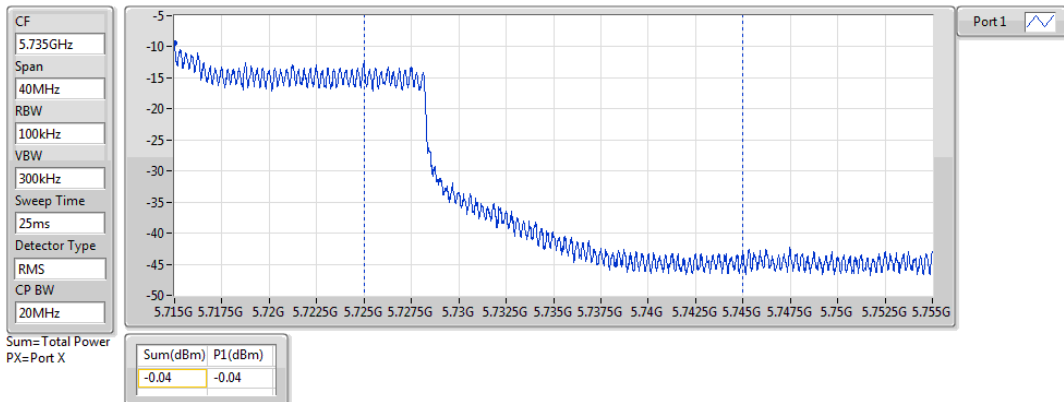
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)

AV Power

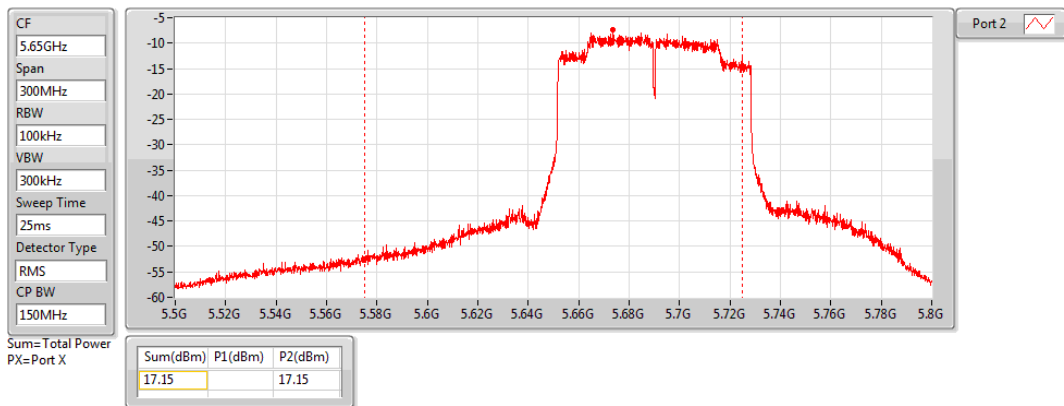
5690MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)

AV Power

5690MHz Straddle 5.47-5.725GHz

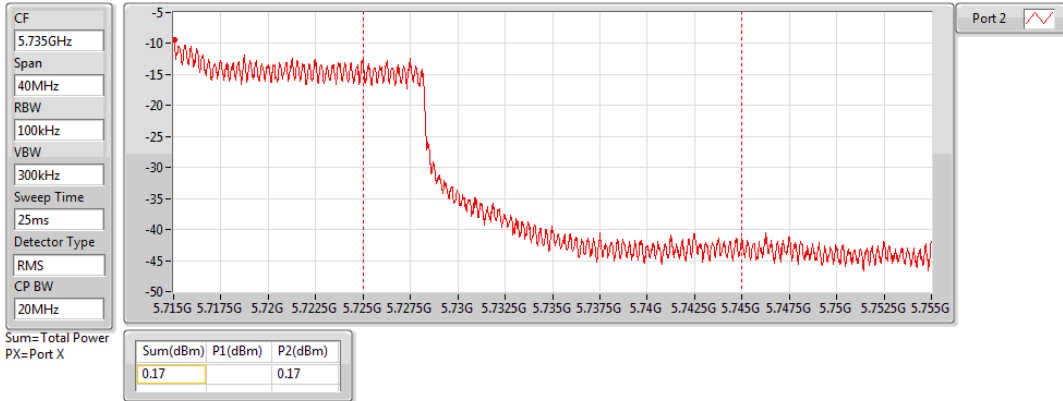


802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)

AV Power

5690MHz Straddle 5.725-5.85GHz

16/08/2019

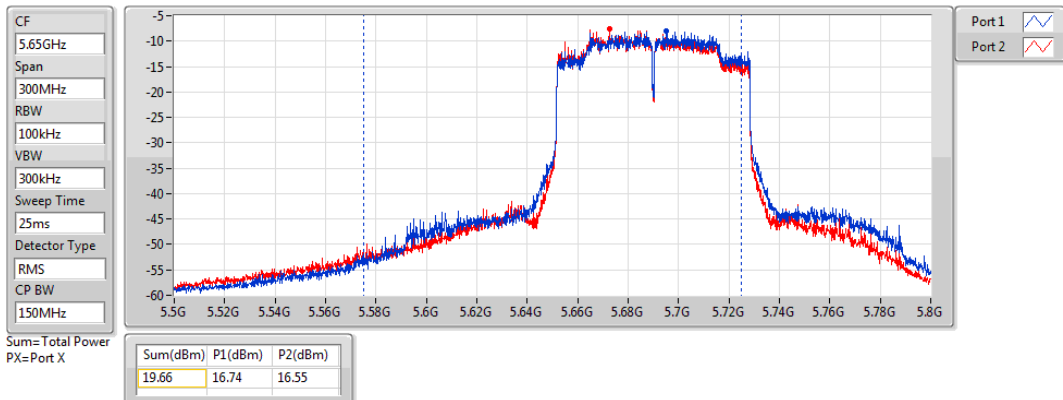


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz

16/08/2019

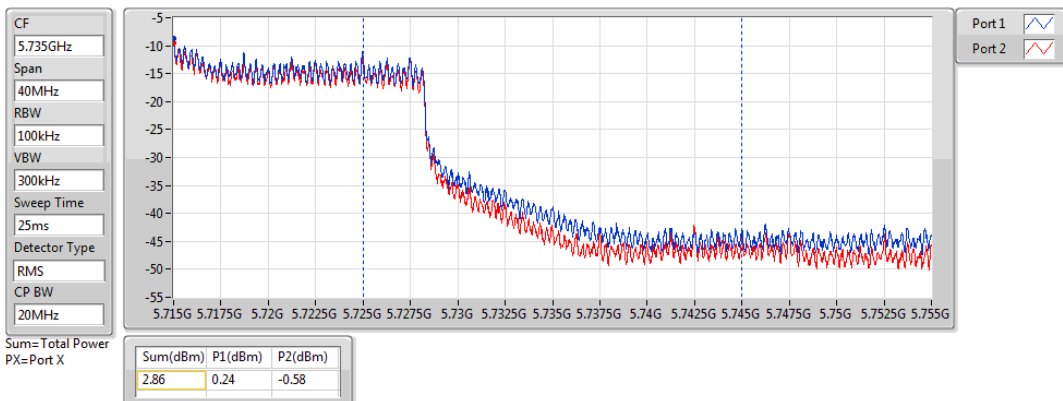


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz

16/08/2019



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	4.94	8.49
802.11a_Nss1,(6Mbps)_1TX(Port2)	4.90	5.48
802.11a_Nss1,(6Mbps)_2TX	7.38	12.58
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	5.55	9.10
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	5.32	5.90
802.11ac VHT20_Nss1,(MCS0)_2TX	7.53	12.73
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	1.23	4.78
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	1.59	2.17
802.11ac VHT40_Nss1,(MCS0)_2TX	4.06	9.26
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	-2.04	1.51
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	-1.31	-0.73
802.11ac VHT80_Nss1,(MCS0)_2TX	0.25	5.45
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	5.44	8.91
802.11a_Nss1,(6Mbps)_1TX(Port2)	5.10	5.68
802.11a_Nss1,(6Mbps)_2TX	8.11	13.26
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	4.72	8.19
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	5.48	6.06
802.11ac VHT20_Nss1,(MCS0)_2TX	7.64	12.79
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	1.41	4.88
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	1.54	2.12
802.11ac VHT40_Nss1,(MCS0)_2TX	4.28	9.43
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	-1.95	1.52
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	-1.13	-0.55
802.11ac VHT80_Nss1,(MCS0)_2TX	0.05	5.20
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	4.81	7.95
802.11a_Nss1,(6Mbps)_1TX(Port2)	5.60	6.40
802.11a_Nss1,(6Mbps)_2TX	8.25	13.31
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	4.77	7.91
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	5.75	6.55
802.11ac VHT20_Nss1,(MCS0)_2TX	8.14	13.20
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	1.85	4.99
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	2.19	2.99
802.11ac VHT40_Nss1,(MCS0)_2TX	4.48	9.54
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	-1.65	1.49
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	-0.69	0.11
802.11ac VHT80_Nss1,(MCS0)_2TX	1.70	6.76
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX(Port1)	7.84	10.64
802.11a_Nss1,(6Mbps)_1TX(Port2)	4.70	5.81
802.11a_Nss1,(6Mbps)_2TX	6.98	11.99
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	3.60	6.40

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	4.83	5.94
802.11ac VHT20_Nss1,(MCS0)_2TX	6.56	11.57
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	0.11	2.91
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	1.25	2.36
802.11ac VHT40_Nss1,(MCS0)_2TX	3.60	8.61
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	-2.88	-0.08
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	-1.55	-0.44
802.11ac VHT80_Nss1,(MCS0)_2TX	0.68	5.69

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)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-
5180MHz	Pass	3.55	4.79		4.79	11.00	8.34	17.00
5200MHz	Pass	3.55	4.94		4.94	11.00	8.49	17.00
5240MHz	Pass	3.55	4.10		4.10	11.00	7.65	17.00
5260MHz	Pass	3.47	4.37		4.37	11.00	7.84	17.00
5300MHz	Pass	3.47	5.44		5.44	11.00	8.91	17.00
5320MHz	Pass	3.47	4.59		4.59	11.00	8.06	17.00
5500MHz	Pass	3.14	4.11		4.11	11.00	7.25	17.00
5580MHz	Pass	3.14	4.22		4.22	11.00	7.36	17.00
5700MHz	Pass	3.14	4.27		4.27	11.00	7.41	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.14	4.81		4.81	11.00	7.95	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	2.80	2.35		2.35	30.00	5.15	36.00
5745MHz	Pass	2.80	7.84		7.84	30.00	10.64	36.00
5785MHz	Pass	2.80	3.28		3.28	30.00	6.08	36.00
5825MHz	Pass	2.80	3.65		3.65	30.00	6.45	36.00
802.11a_Nss1,(6Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-
5180MHz	Pass	0.58		4.90	4.90	11.00	5.48	17.00
5200MHz	Pass	0.58		4.89	4.89	11.00	5.47	17.00
5240MHz	Pass	0.58		4.89	4.89	11.00	5.47	17.00
5260MHz	Pass	0.58		5.10	5.10	11.00	5.68	17.00
5300MHz	Pass	0.58		5.00	5.00	11.00	5.58	17.00
5320MHz	Pass	0.58		5.03	5.03	11.00	5.61	17.00
5500MHz	Pass	0.80		5.10	5.10	11.00	5.90	17.00
5580MHz	Pass	0.80		5.31	5.31	11.00	6.11	17.00
5700MHz	Pass	0.80		5.32	5.32	11.00	6.12	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.80		5.60	5.60	11.00	6.40	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	1.11		3.28	3.28	30.00	4.39	36.00
5745MHz	Pass	1.11		4.51	4.51	30.00	5.62	36.00
5785MHz	Pass	1.11		4.69	4.69	30.00	5.80	36.00
5825MHz	Pass	1.11		4.70	4.70	30.00	5.81	36.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.20	4.06	4.36	7.19	11.00	12.39	17.00
5200MHz	Pass	5.20	4.27	4.55	7.38	11.00	12.58	17.00
5240MHz	Pass	5.20	4.33	4.58	7.35	11.00	12.55	17.00
5260MHz	Pass	5.15	4.57	4.58	7.54	11.00	12.69	17.00
5300MHz	Pass	5.15	5.45	4.78	8.11	11.00	13.26	17.00
5320MHz	Pass	5.15	3.67	3.74	6.66	11.00	11.81	17.00
5500MHz	Pass	5.06	4.54	4.57	7.53	11.00	12.59	17.00
5580MHz	Pass	5.06	4.71	4.74	7.67	11.00	12.73	17.00
5700MHz	Pass	5.06	4.53	4.79	7.61	11.00	12.67	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.06	5.33	5.23	8.25	11.00	13.31	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.01	2.54	2.77	5.67	30.00	10.68	36.00
5745MHz	Pass	5.01	3.93	3.95	6.79	30.00	11.80	36.00
5785MHz	Pass	5.01	3.97	4.10	6.98	30.00	11.99	36.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5825MHz	Pass	5.01	3.80	3.91	6.76	30.00	11.77	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-
5180MHz	Pass	3.55	5.55		5.55	11.00	9.10	17.00
5200MHz	Pass	3.55	4.16		4.16	11.00	7.71	17.00
5240MHz	Pass	3.55	4.35		4.35	11.00	7.90	17.00
5260MHz	Pass	3.47	4.59		4.59	11.00	8.06	17.00
5300MHz	Pass	3.47	4.72		4.72	11.00	8.19	17.00
5320MHz	Pass	3.47	3.34		3.34	11.00	6.81	17.00
5500MHz	Pass	3.14	4.54		4.54	11.00	7.68	17.00
5580MHz	Pass	3.14	4.58		4.58	11.00	7.72	17.00
5700MHz	Pass	3.14	4.77		4.77	11.00	7.91	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.14	4.69		4.69	11.00	7.83	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	2.80	2.29		2.29	30.00	5.09	36.00
5745MHz	Pass	2.80	3.52		3.52	30.00	6.32	36.00
5785MHz	Pass	2.80	3.56		3.56	30.00	6.36	36.00
5825MHz	Pass	2.80	3.60		3.60	30.00	6.40	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-
5180MHz	Pass	0.58		5.24	5.24	11.00	5.82	17.00
5200MHz	Pass	0.58		5.16	5.16	11.00	5.74	17.00
5240MHz	Pass	0.58		5.32	5.32	11.00	5.90	17.00
5260MHz	Pass	0.58		5.26	5.26	11.00	5.84	17.00
5300MHz	Pass	0.58		5.48	5.48	11.00	6.06	17.00
5320MHz	Pass	0.58		5.36	5.36	11.00	5.94	17.00
5500MHz	Pass	0.80		5.37	5.37	11.00	6.17	17.00
5580MHz	Pass	0.80		5.58	5.58	11.00	6.38	17.00
5700MHz	Pass	0.80		5.73	5.73	11.00	6.53	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.80		5.75	5.75	11.00	6.55	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	1.11		3.35	3.35	30.00	4.46	36.00
5745MHz	Pass	1.11		4.57	4.57	30.00	5.68	36.00
5785MHz	Pass	1.11		4.83	4.83	30.00	5.94	36.00
5825MHz	Pass	1.11		4.78	4.78	30.00	5.89	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.20	4.74	4.41	7.53	11.00	12.73	17.00
5200MHz	Pass	5.20	4.08	4.36	7.20	11.00	12.40	17.00
5240MHz	Pass	5.20	4.21	4.36	7.28	11.00	12.48	17.00
5260MHz	Pass	5.15	4.39	4.57	7.45	11.00	12.60	17.00
5300MHz	Pass	5.15	4.83	4.61	7.64	11.00	12.79	17.00
5320MHz	Pass	5.15	3.38	3.54	6.41	11.00	11.56	17.00
5500MHz	Pass	5.06	4.38	4.55	7.47	11.00	12.53	17.00
5580MHz	Pass	5.06	5.07	4.62	7.75	11.00	12.81	17.00
5700MHz	Pass	5.06	4.46	4.60	7.49	11.00	12.55	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.06	5.16	5.27	8.14	11.00	13.20	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.01	2.70	2.92	5.82	30.00	10.83	36.00
5745MHz	Pass	5.01	3.14	3.27	6.15	30.00	11.16	36.00
5785MHz	Pass	5.01	3.36	3.57	6.38	30.00	11.39	36.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5825MHz	Pass	5.01	3.50	3.73	6.56	30.00	11.57	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-
5190MHz	Pass	3.55	-0.21		-0.21	11.00	3.34	17.00
5230MHz	Pass	3.55	1.23		1.23	11.00	4.78	17.00
5270MHz	Pass	3.47	1.41		1.41	11.00	4.88	17.00
5310MHz	Pass	3.47	0.32		0.32	11.00	3.79	17.00
5510MHz	Pass	3.14	1.85		1.85	11.00	4.99	17.00
5550MHz	Pass	3.14	1.62		1.62	11.00	4.76	17.00
5670MHz	Pass	3.14	1.54		1.54	11.00	4.68	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.14	1.16		1.16	11.00	4.30	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	2.80	-3.48		-3.48	30.00	-0.68	36.00
5755MHz	Pass	2.80	0.11		0.11	30.00	2.91	36.00
5795MHz	Pass	2.80	-0.05		-0.05	30.00	2.75	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-
5190MHz	Pass	0.58		1.42	1.42	11.00	2.00	17.00
5230MHz	Pass	0.58		1.59	1.59	11.00	2.17	17.00
5270MHz	Pass	0.58		1.53	1.53	11.00	2.11	17.00
5310MHz	Pass	0.58		1.54	1.54	11.00	2.12	17.00
5510MHz	Pass	0.80		2.04	2.04	11.00	2.84	17.00
5550MHz	Pass	0.80		1.91	1.91	11.00	2.71	17.00
5670MHz	Pass	0.80		1.93	1.93	11.00	2.73	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	0.80		2.19	2.19	11.00	2.99	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	1.11		-2.86	-2.86	30.00	-1.75	36.00
5755MHz	Pass	1.11		0.99	0.99	30.00	2.10	36.00
5795MHz	Pass	1.11		1.25	1.25	30.00	2.36	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.20	0.75	1.23	4.00	11.00	9.20	17.00
5230MHz	Pass	5.20	0.86	1.30	4.06	11.00	9.26	17.00
5270MHz	Pass	5.15	1.50	1.28	4.28	11.00	9.43	17.00
5310MHz	Pass	5.15	0.59	1.00	3.77	11.00	8.92	17.00
5510MHz	Pass	5.06	1.25	1.33	4.27	11.00	9.33	17.00
5550MHz	Pass	5.06	1.44	1.51	4.48	11.00	9.54	17.00
5670MHz	Pass	5.06	1.16	1.61	4.35	11.00	9.41	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.06	1.07	1.62	4.32	11.00	9.38	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.01	-3.51	-3.28	-0.42	30.00	4.59	36.00
5755MHz	Pass	5.01	0.44	0.24	3.19	30.00	8.20	36.00
5795MHz	Pass	5.01	0.63	0.55	3.60	30.00	8.61	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-
5210MHz	Pass	3.55	-2.04		-2.04	11.00	1.51	17.00
5290MHz	Pass	3.47	-1.95		-1.95	11.00	1.52	17.00
5530MHz	Pass	3.14	-6.75		-6.75	11.00	-3.61	17.00
5610MHz	Pass	3.14	-1.65		-1.65	11.00	1.49	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.14	-1.99		-1.99	11.00	1.15	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	2.80	-7.31		-7.31	30.00	-4.51	36.00
5775MHz	Pass	2.80	-2.88		-2.88	30.00	-0.08	36.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT80_Nss1,(MCS0)_1TX(Port2)	-	-	-	-	-	-	-	-
5210MHz	Pass	0.58		-1.31	-1.31	11.00	-0.73	17.00
5290MHz	Pass	0.58		-1.13	-1.13	11.00	-0.55	17.00
5530MHz	Pass	0.80		-0.86	-0.86	11.00	-0.06	17.00
5610MHz	Pass	0.80		-0.69	-0.69	11.00	0.11	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	0.80		-0.76	-0.76	11.00	0.04	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	1.11		-7.33	-7.33	30.00	-6.22	36.00
5775MHz	Pass	1.11		-1.55	-1.55	30.00	-0.44	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.20	-3.13	-2.35	0.25	11.00	5.45	17.00
5290MHz	Pass	5.15	-3.21	-2.68	0.05	11.00	5.20	17.00
5530MHz	Pass	5.06	-6.23	-6.00	-3.10	11.00	1.96	17.00
5610MHz	Pass	5.06	-1.53	-1.11	1.70	11.00	6.76	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.06	-1.71	-1.03	1.54	11.00	6.60	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.01	-7.08	-7.68	-4.38	30.00	0.63	36.00
5775MHz	Pass	5.01	-2.61	-2.07	0.68	30.00	5.69	36.00

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

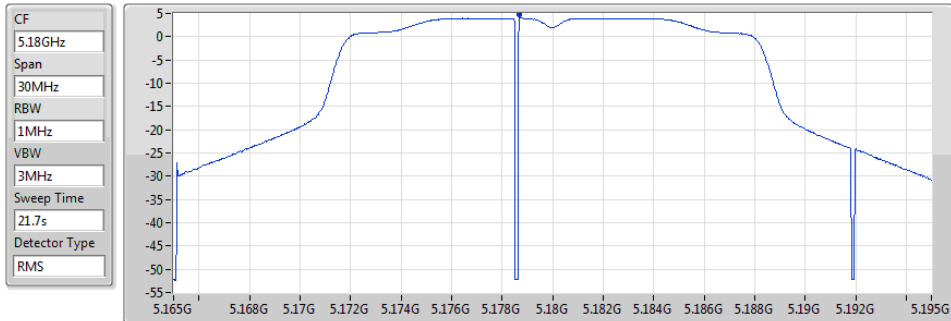
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5180MHz

16/08/2019



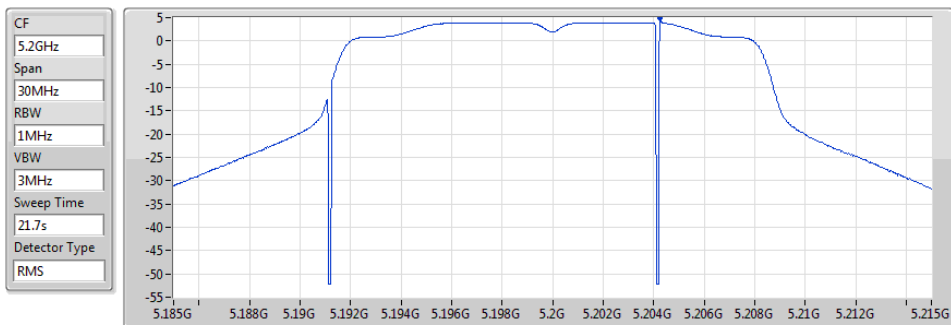
Sum	PD	Port1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
4.79	4.79	4.79

802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5200MHz

16/08/2019



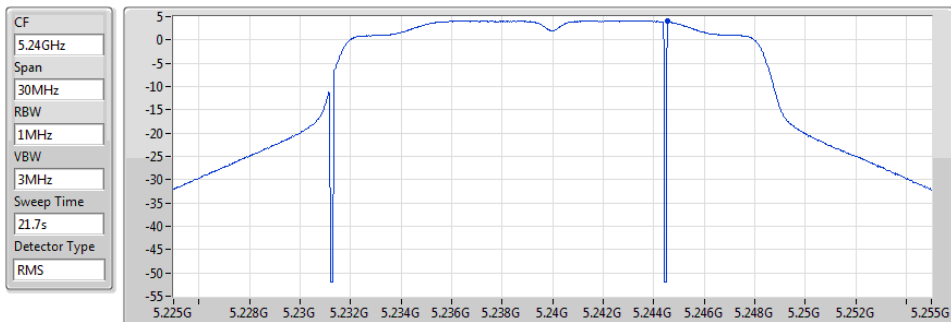
Sum	PD	Port1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
4.94	4.94	4.94

802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5240MHz

16/08/2019



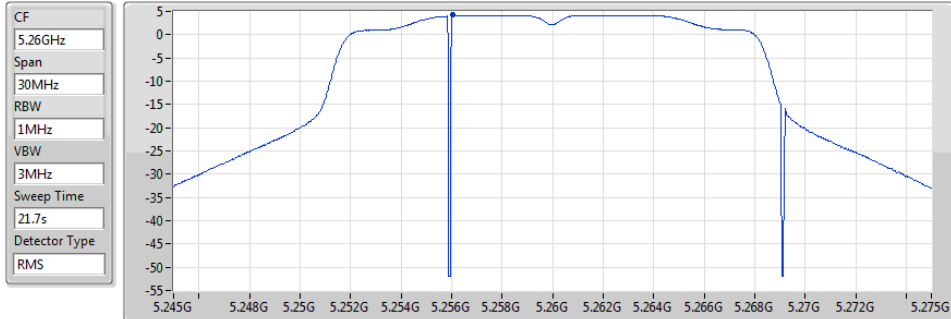
Sum	PD	Port1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
4.10	4.10	4.10

802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5260MHz

16/08/2019

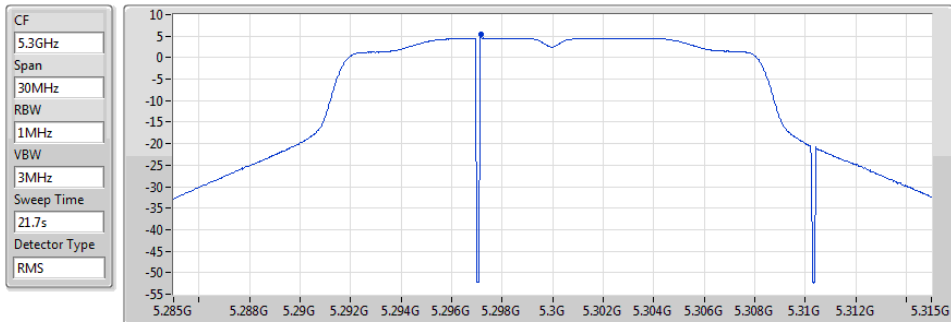


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5300MHz

16/08/2019

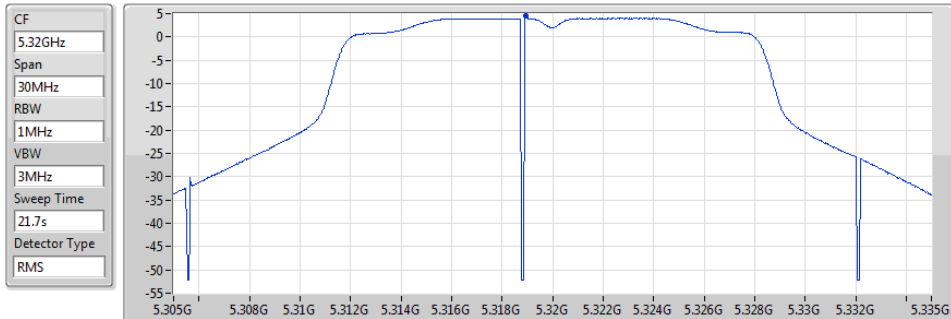


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5320MHz

16/08/2019

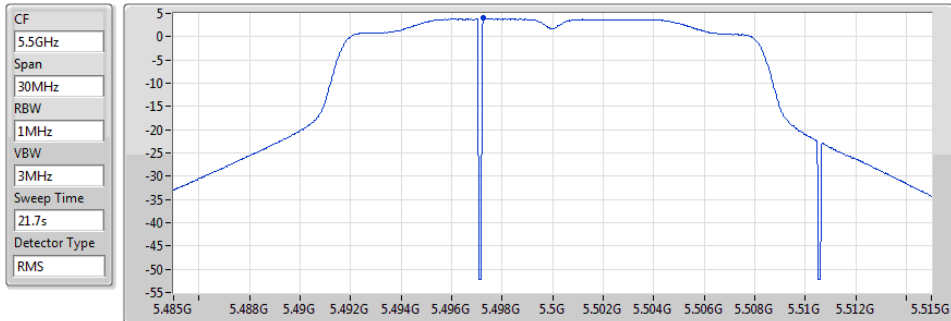


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5500MHz

16/08/2019

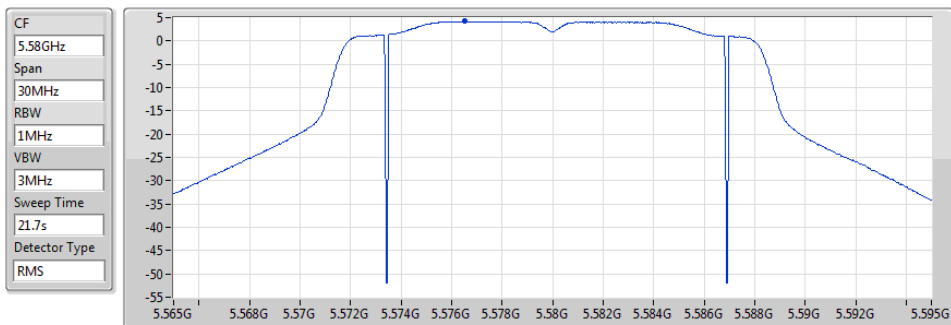


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5580MHz

16/08/2019

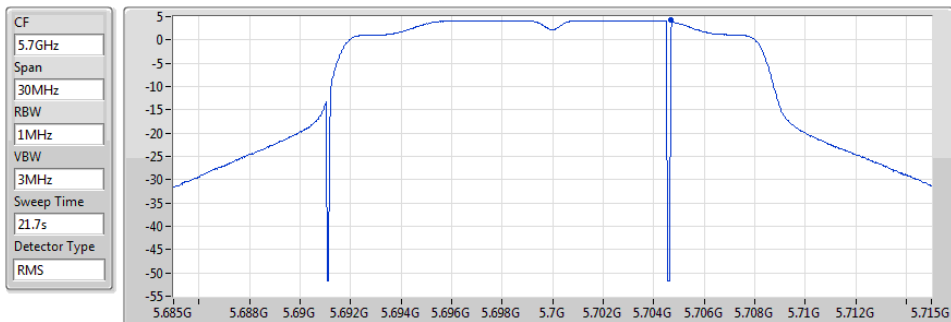


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5700MHz

16/08/2019

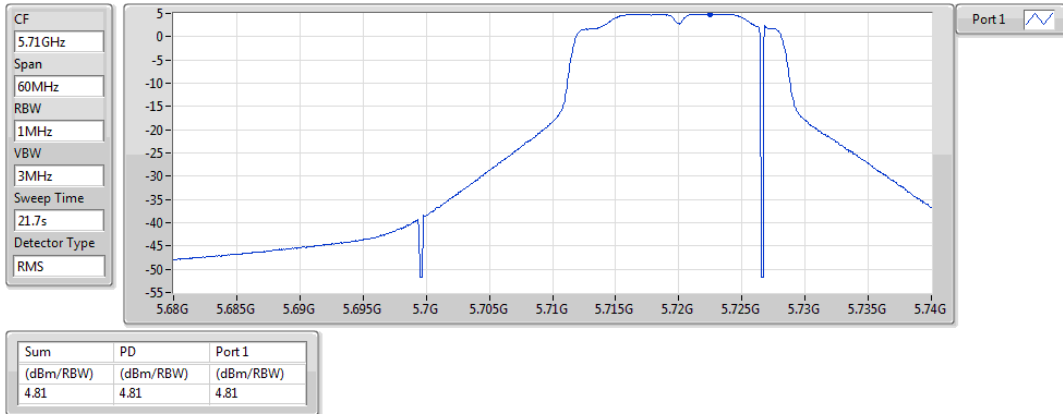


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5720MHz Straddle 5.47-5.725GHz

16/08/2019

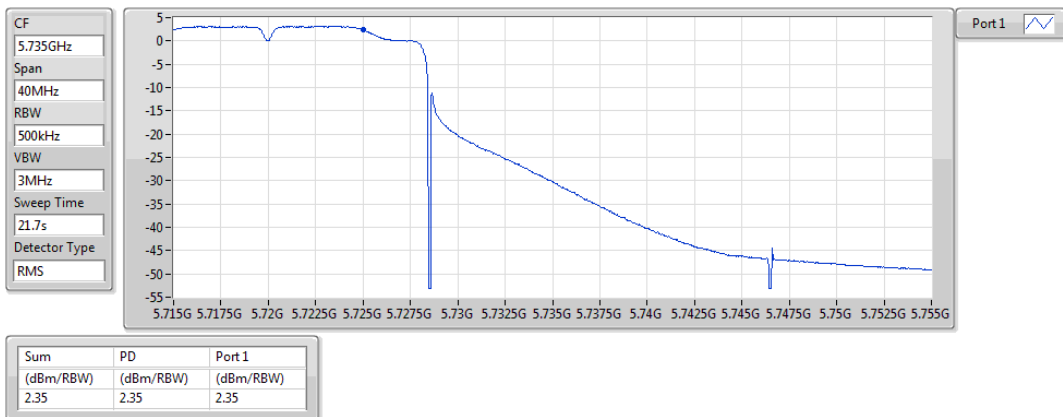


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5720MHz Straddle 5.725-5.85GHz

16/08/2019

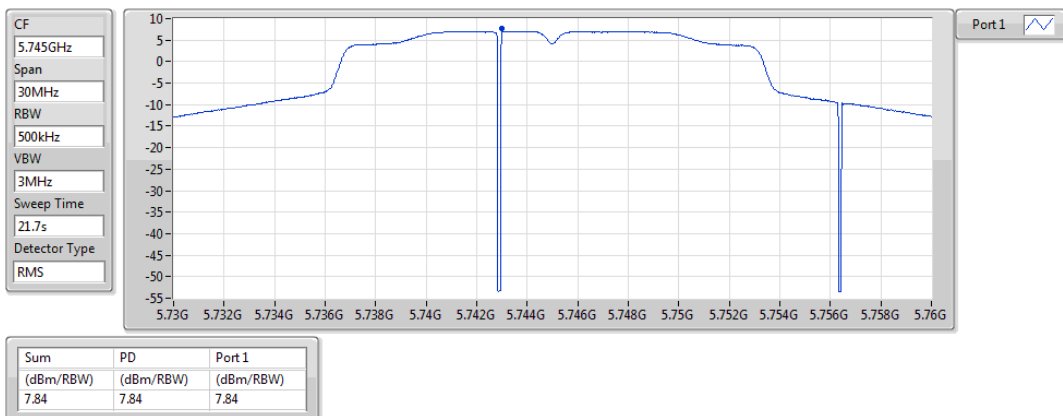


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5745MHz

31/07/2019

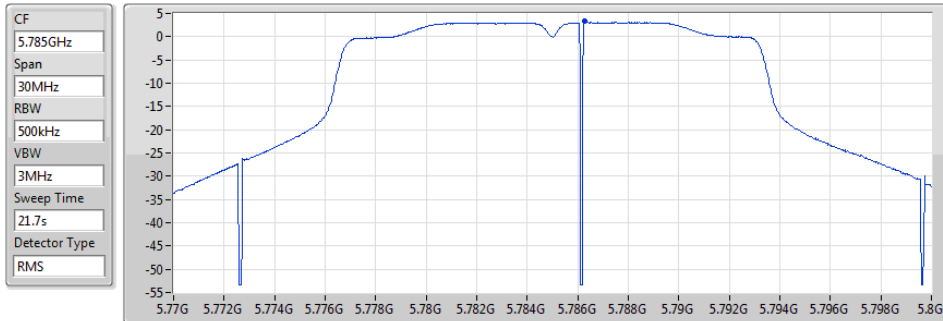


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5785MHz

16/08/2019

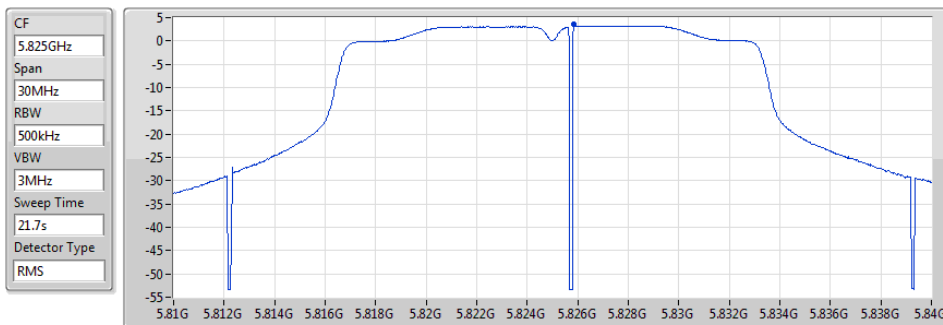


802.11a_Nss1,(6Mbps)_1TX(Port1)

PSD

5825MHz

16/08/2019

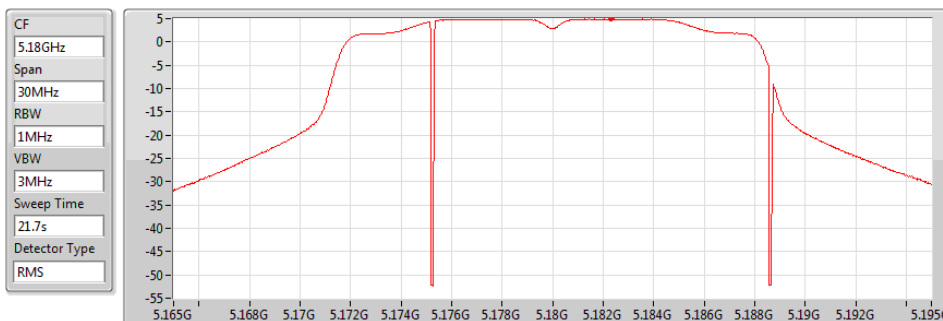


802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5180MHz

16/08/2019

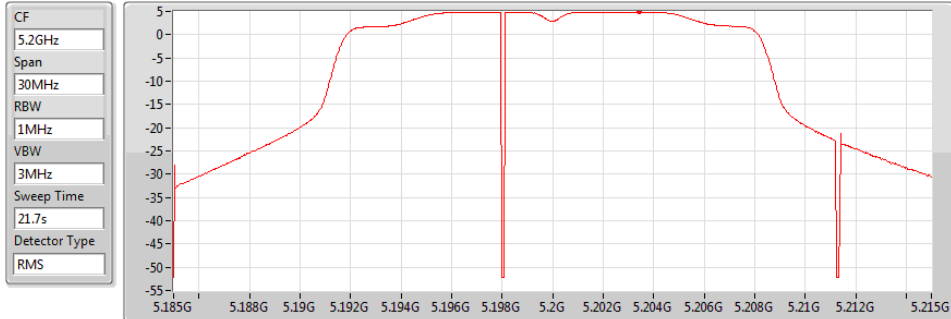


802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5200MHz

16/08/2019



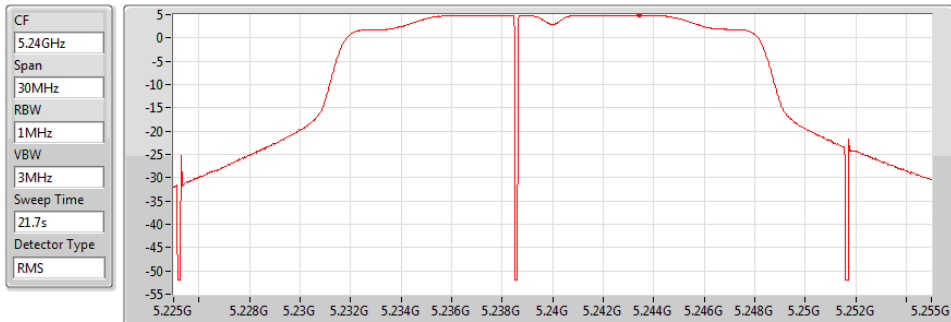
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.89	4.89		4.89

802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5240MHz

16/08/2019



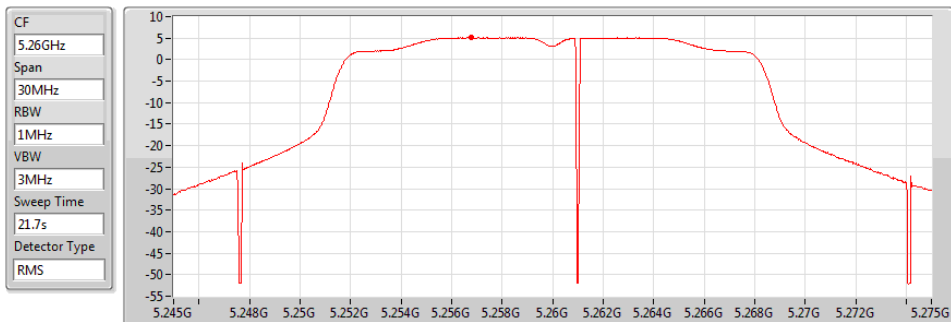
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.89	4.89		4.89

802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5260MHz

16/08/2019



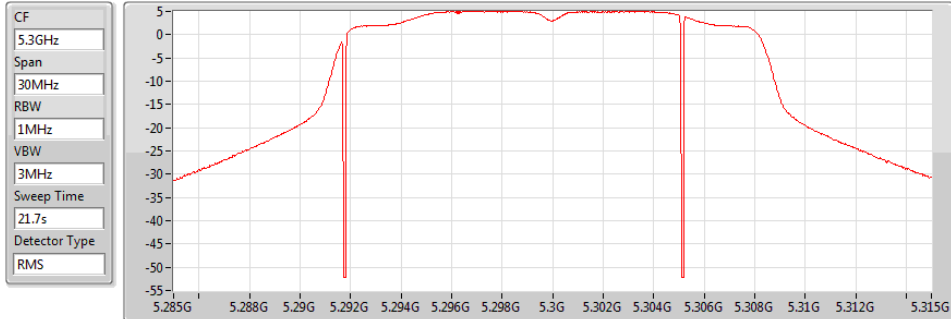
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.10	5.10		5.10

802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5300MHz

16/08/2019

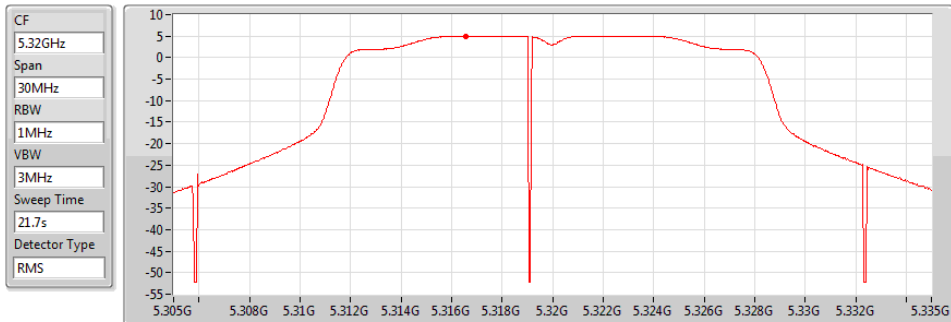


802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5320MHz

16/08/2019

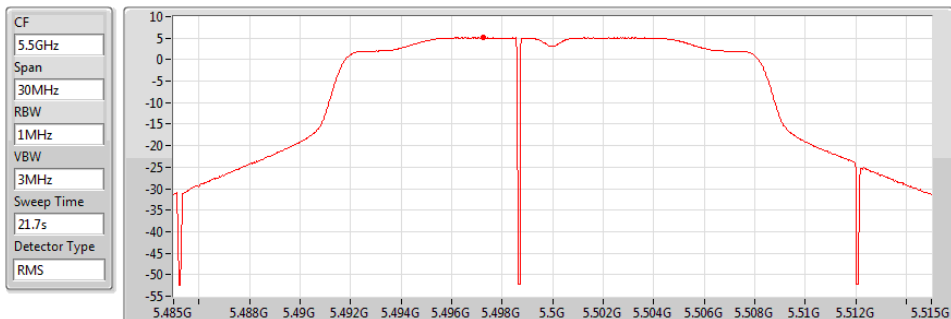


802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5500MHz

16/08/2019

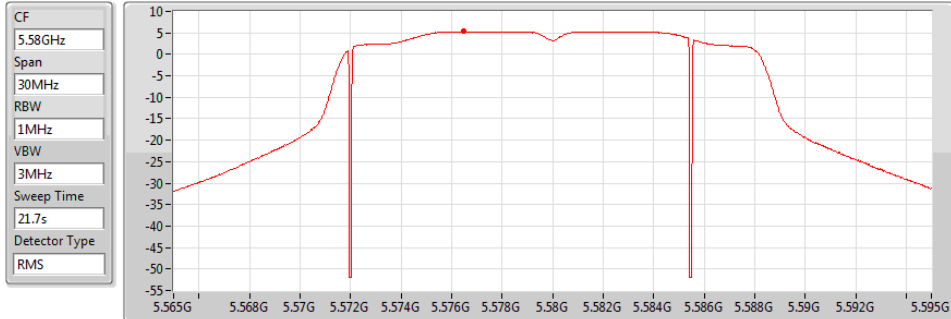


802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5580MHz

16/08/2019

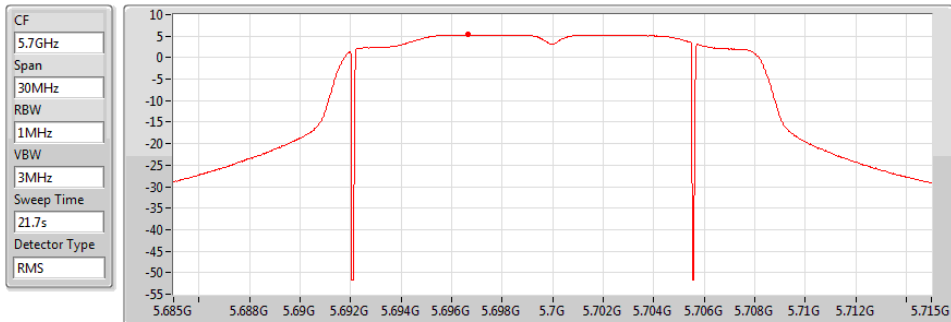


802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5700MHz

31/07/2019

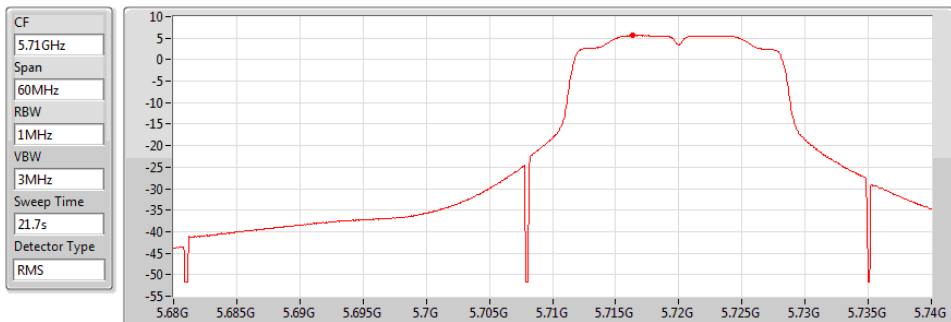


802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5720MHz Straddle 5.47-5.725GHz

16/08/2019

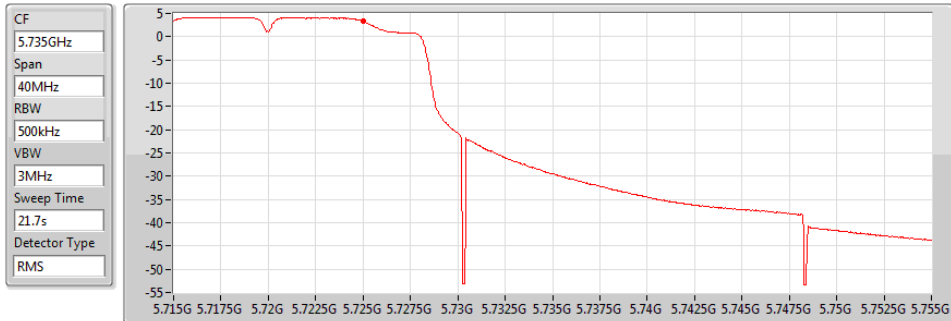


802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5720MHz Straddle 5.725-5.85GHz

16/08/2019



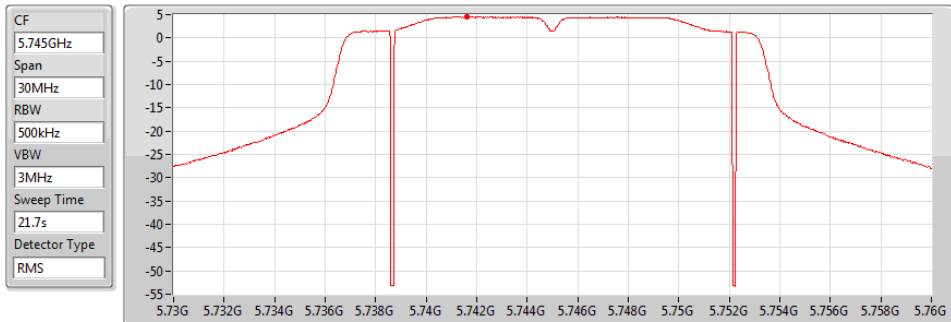
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.28	3.28		3.28

802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5745MHz

16/08/2019



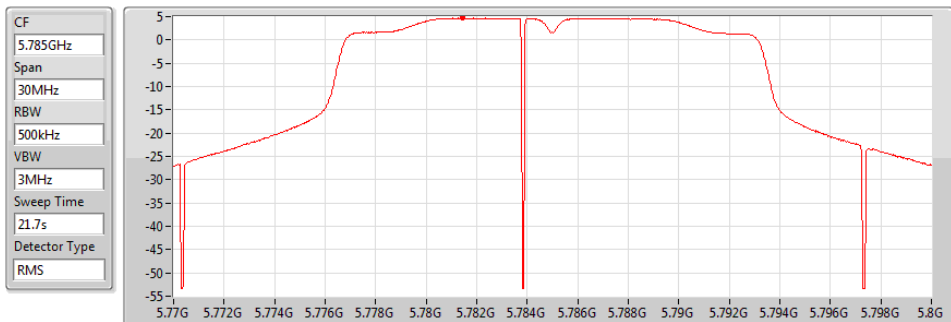
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.51	4.51		4.51

802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5785MHz

16/08/2019



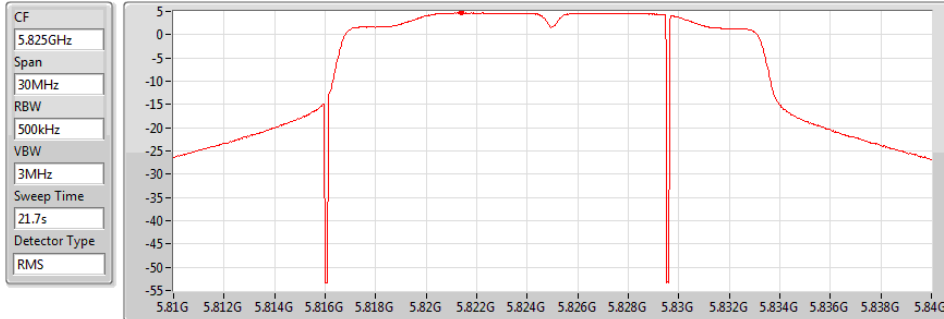
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.69	4.69		4.69

802.11a_Nss1,(6Mbps)_1TX(Port2)

PSD

5825MHz

16/08/2019



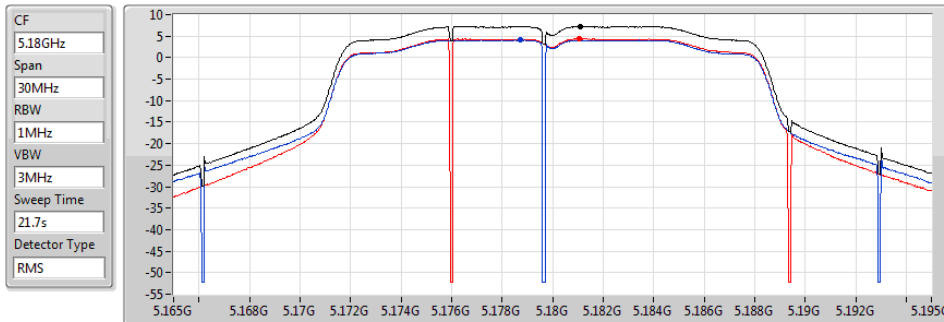
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.70	4.70		4.70

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

16/08/2019



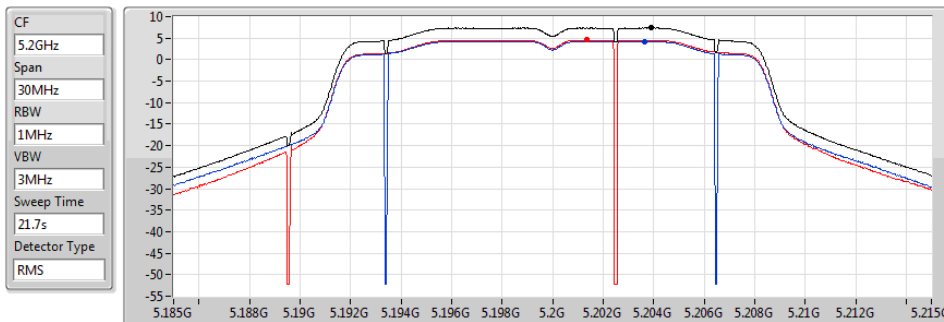
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.19	7.19	4.06	4.36

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

16/08/2019



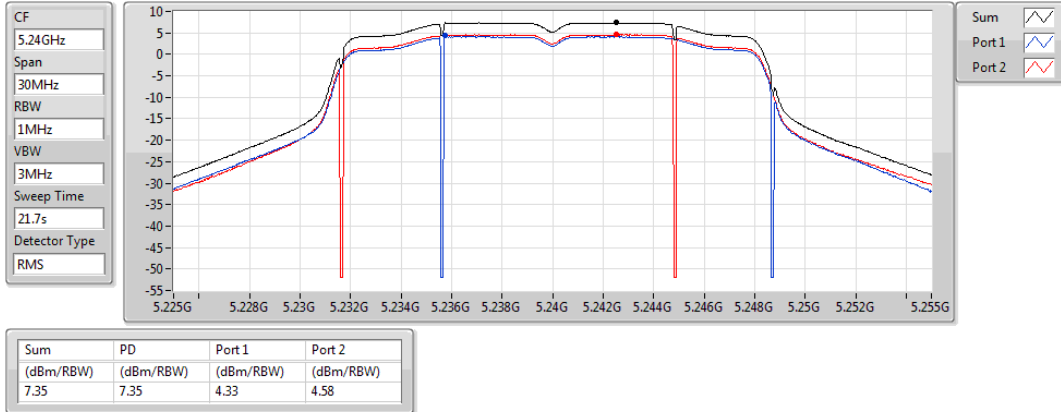
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.38	7.38	4.27	4.55

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

16/08/2019

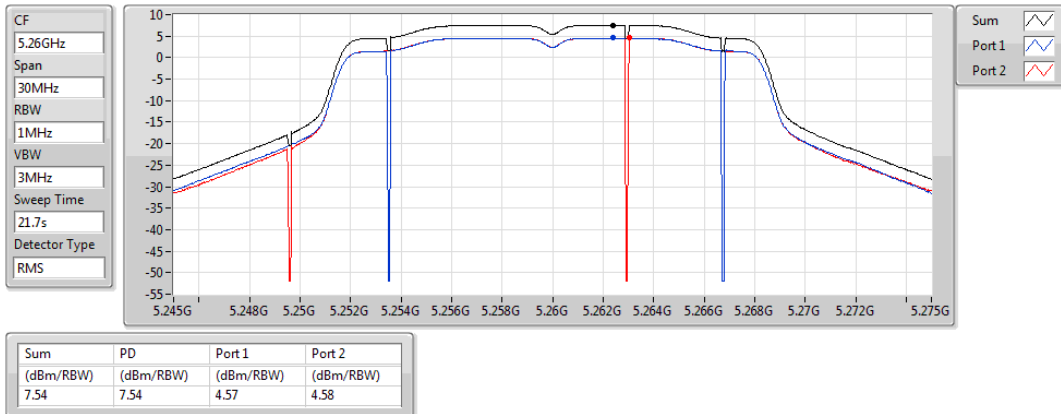


802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

16/08/2019

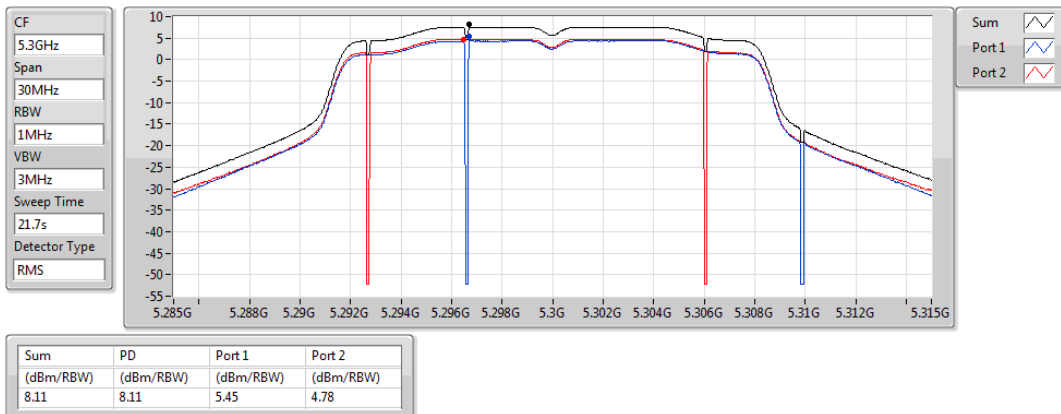


802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

16/08/2019

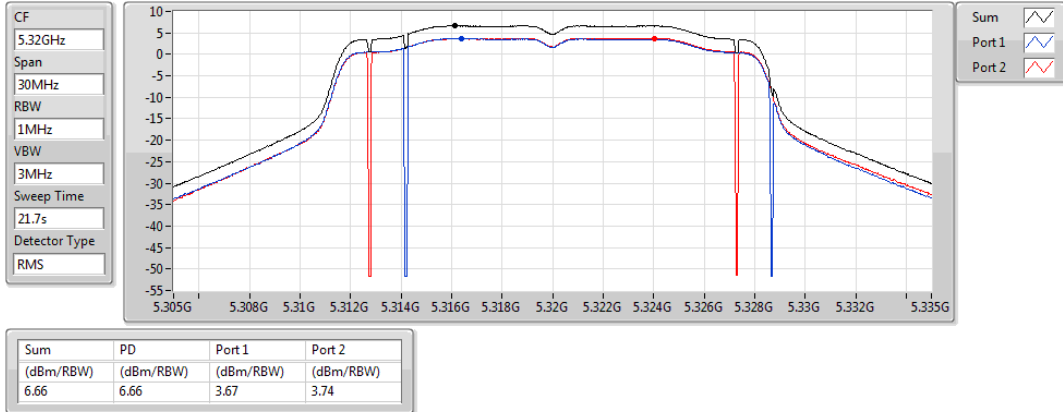


802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

15/07/2019

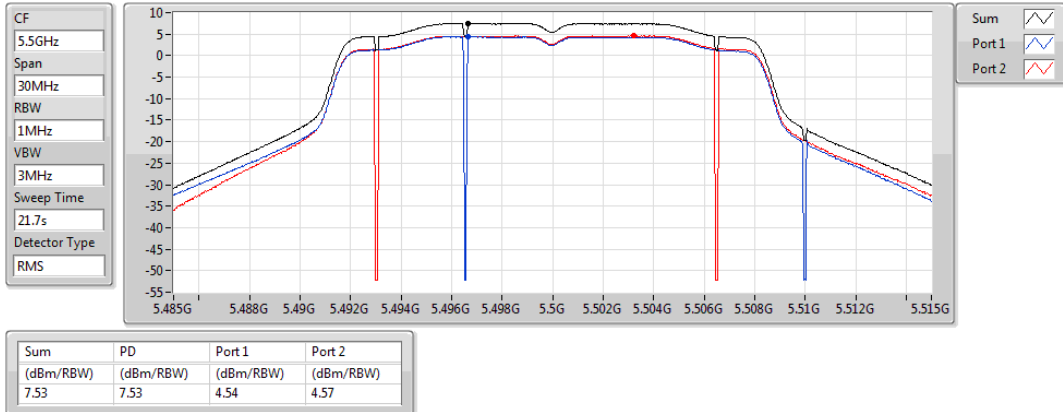


802.11a_Nss1,(6Mbps)_2TX

PSD

5500MHz

16/08/2019

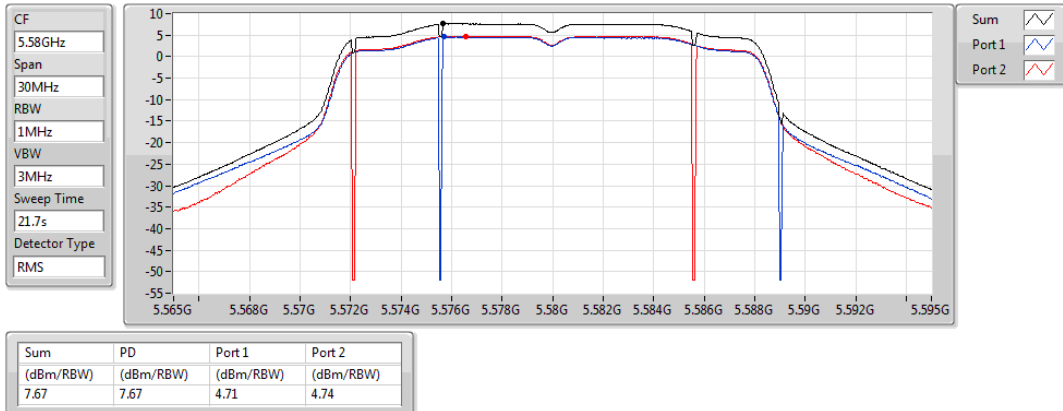


802.11a_Nss1,(6Mbps)_2TX

PSD

5580MHz

16/08/2019

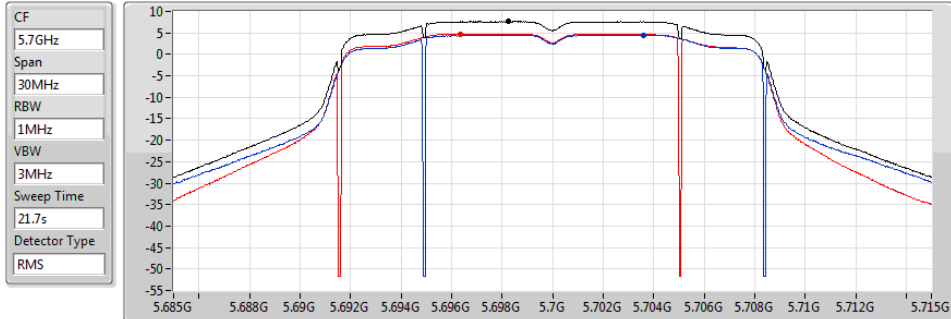


802.11a_Nss1,(6Mbps)_2TX

PSD

5700MHz

16/08/2019

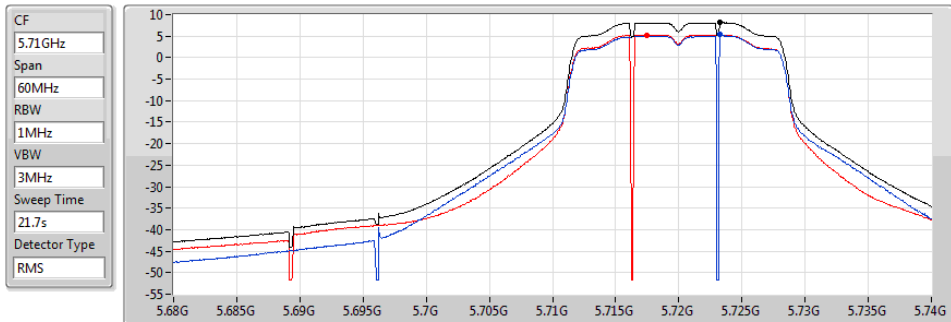


802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

16/08/2019

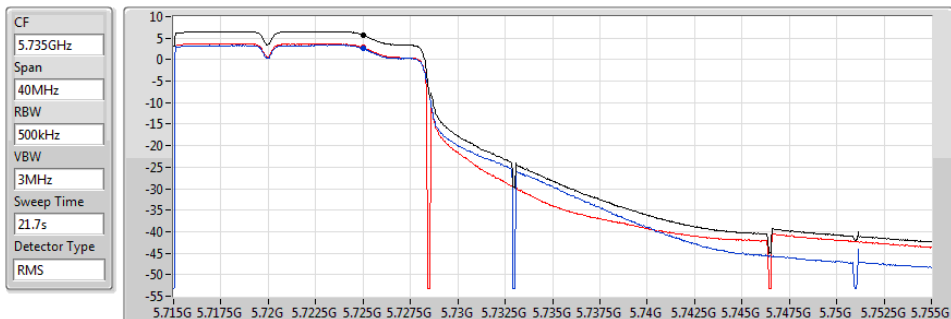


802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

16/08/2019

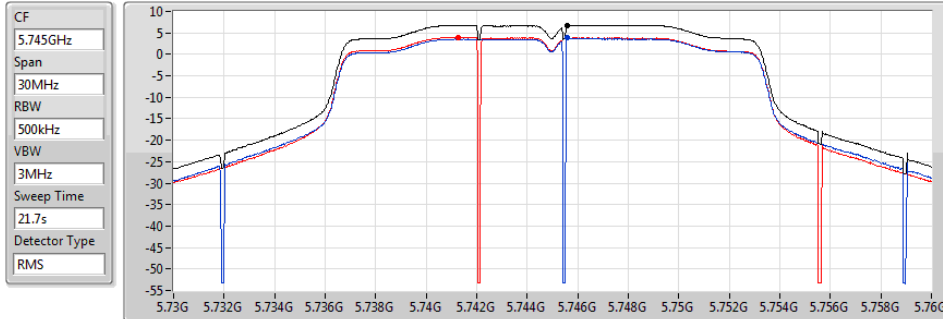


802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

16/08/2019



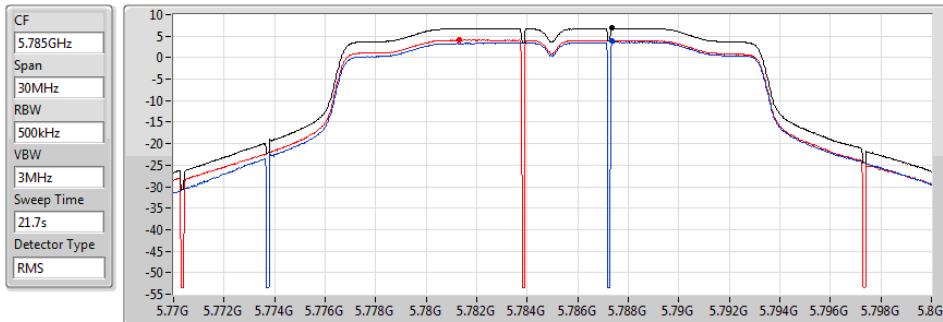
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.79	6.79	3.93	3.95

802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

16/08/2019



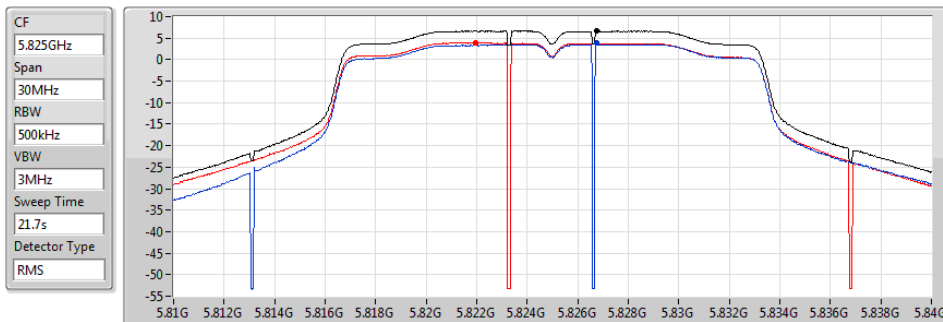
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.98	6.98	3.97	4.10

802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

16/08/2019



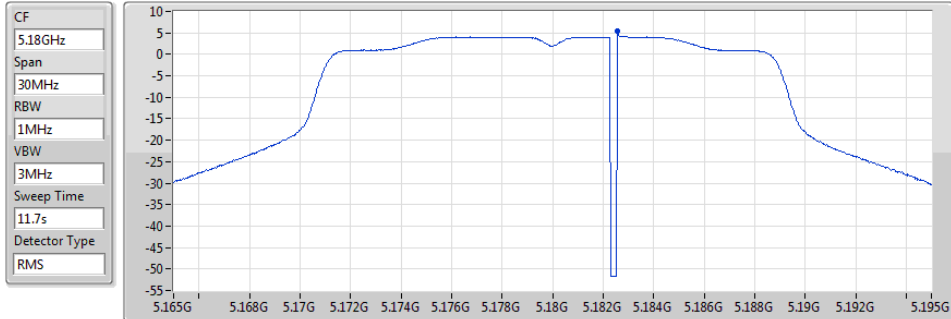
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.76	6.76	3.80	3.91

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5180MHz

16/08/2019

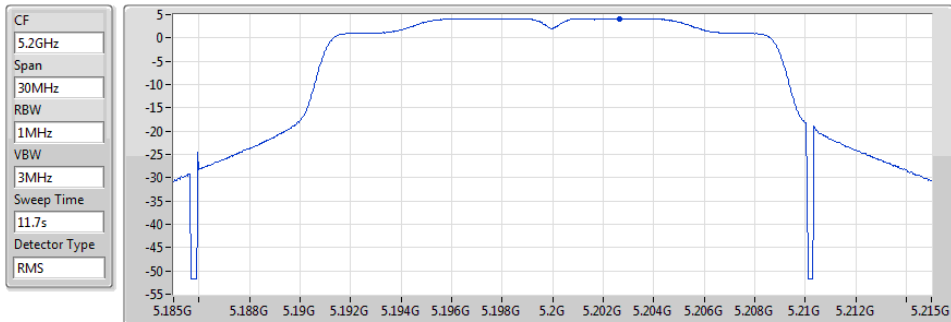


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5200MHz

16/08/2019

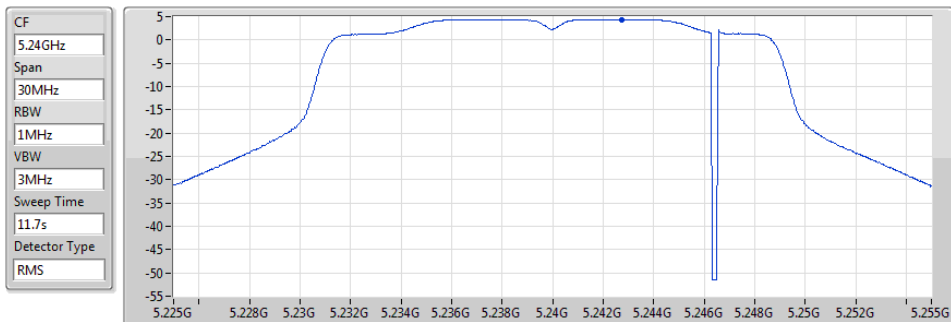


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5240MHz

16/08/2019

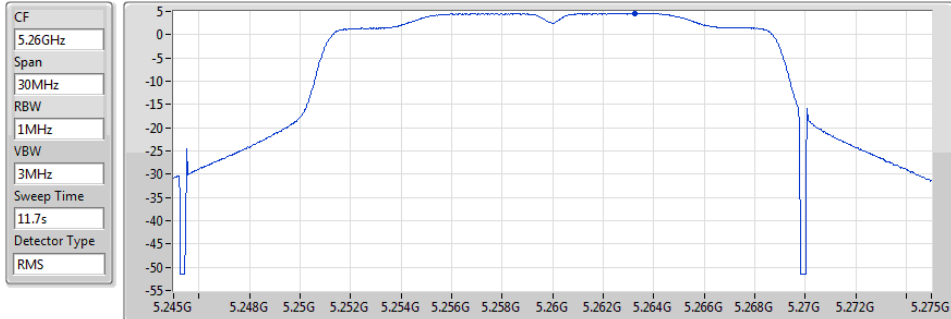


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5260MHz

16/08/2019



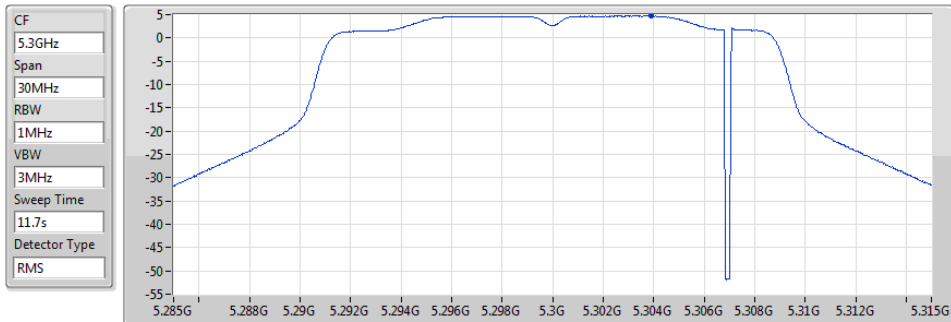
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.59	4.59	4.59

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5300MHz

16/08/2019



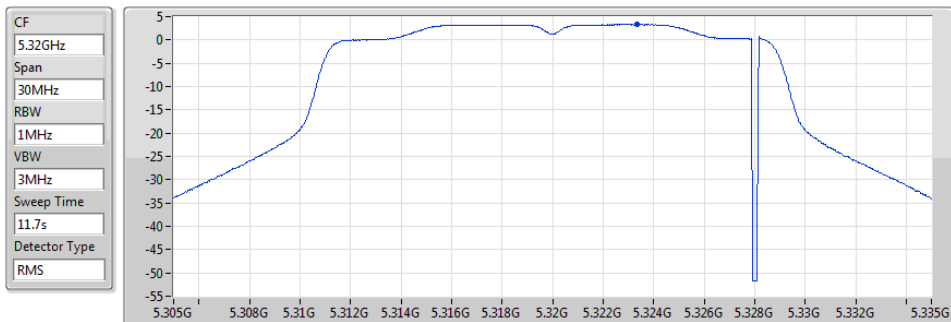
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.72	4.72	4.72

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5320MHz

16/08/2019



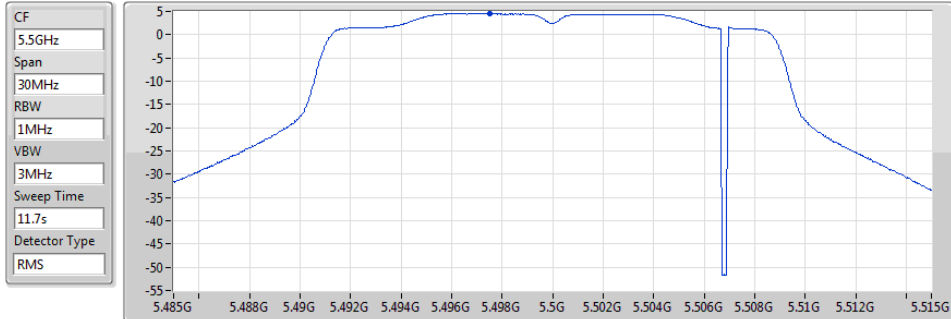
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.34	3.34	3.34

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5500MHz

16/08/2019

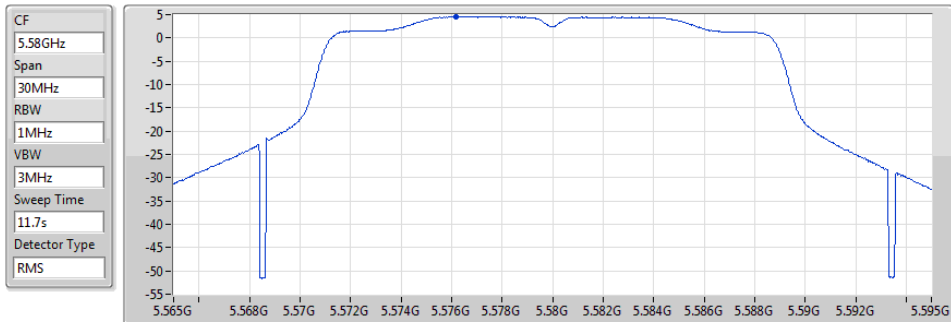


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5580MHz

16/08/2019

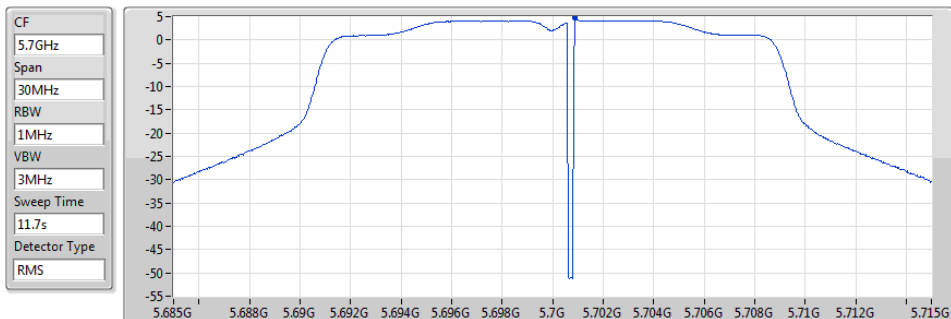


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5700MHz

16/08/2019

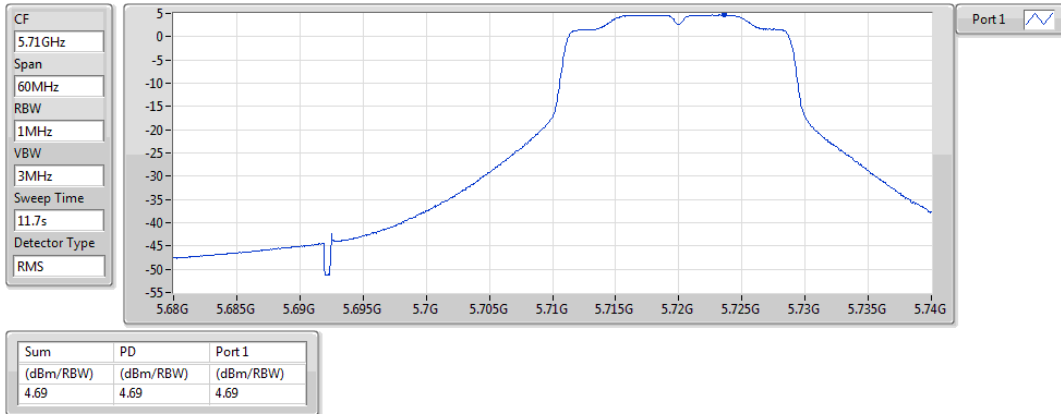


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5720MHz Straddle 5.47-5.725GHz

16/08/2019

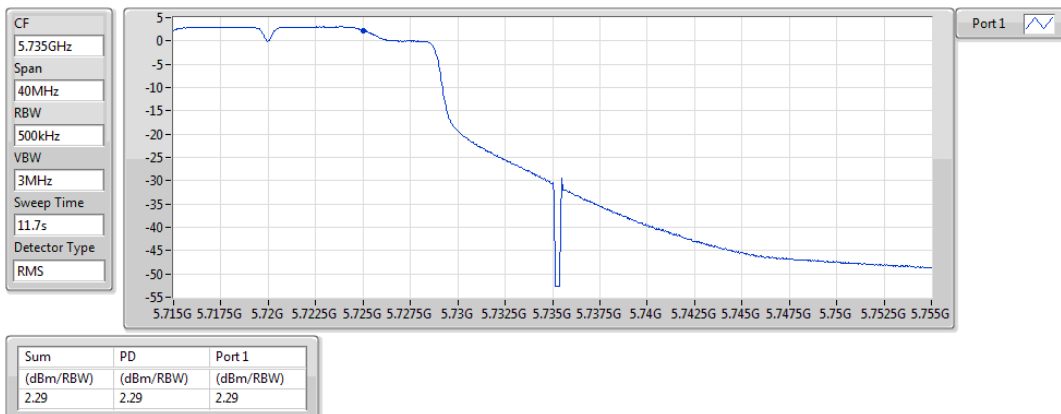


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5720MHz Straddle 5.725-5.85GHz

16/08/2019

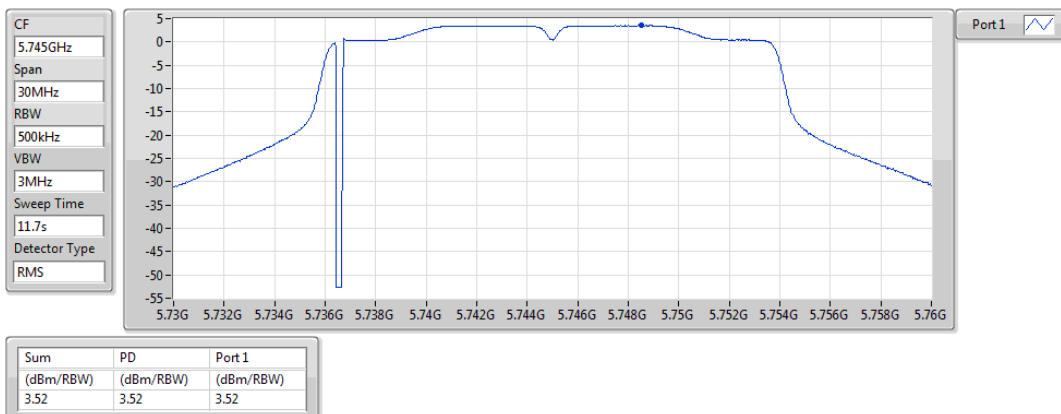


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5745MHz

16/08/2019

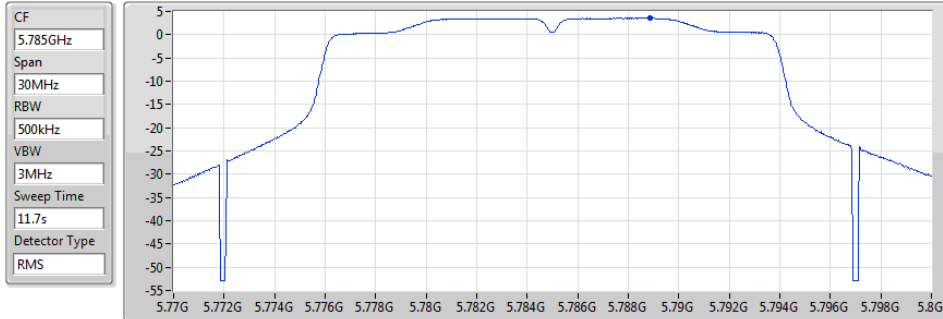


802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5785MHz

16/08/2019



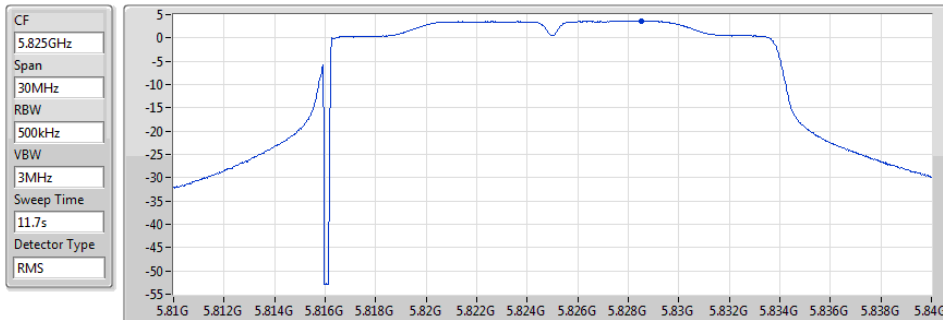
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.56	3.56	3.56

802.11ac VHT20_Nss1,(MCS0)_1TX(Port1)

PSD

5825MHz

16/08/2019



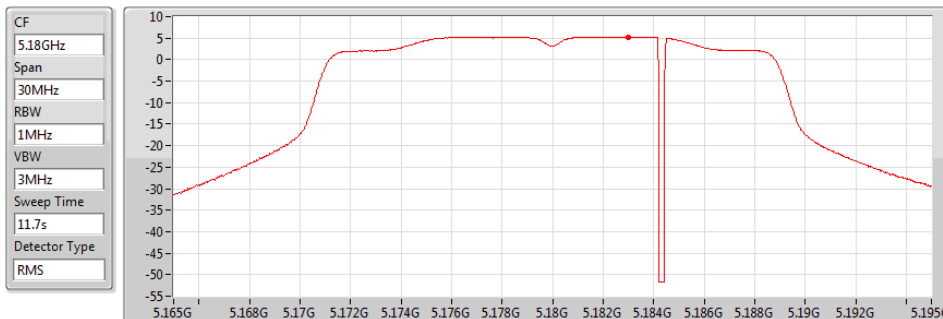
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.60	3.60	3.60

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5180MHz

16/08/2019



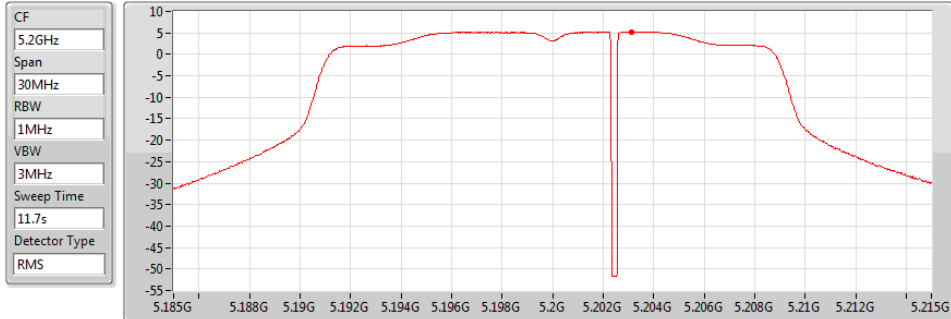
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.24	5.24		5.24

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5200MHz

16/08/2019



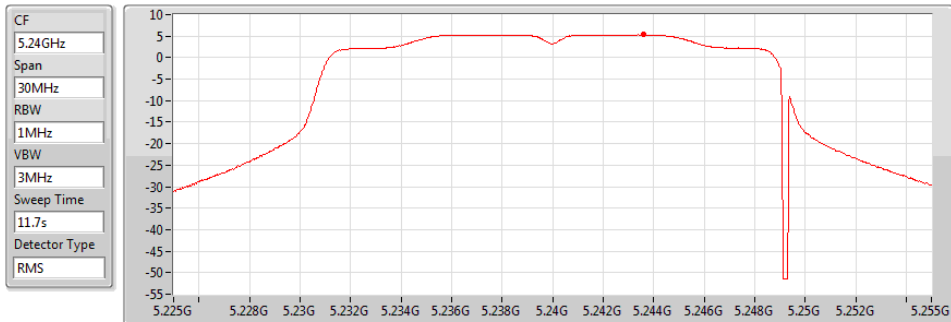
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.16	5.16		5.16

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5240MHz

16/08/2019



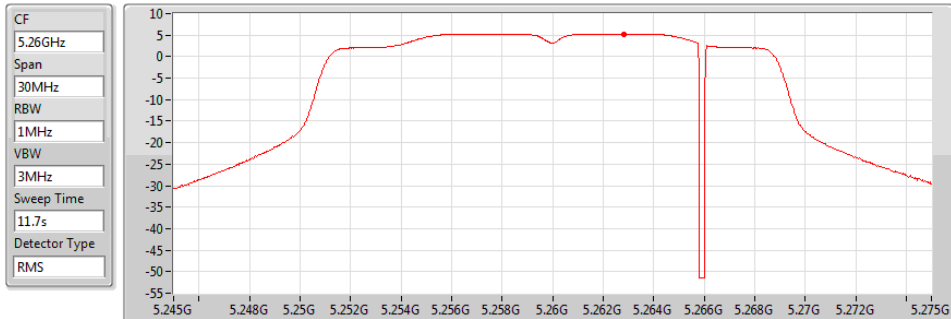
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.32	5.32		5.32

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5260MHz

16/08/2019



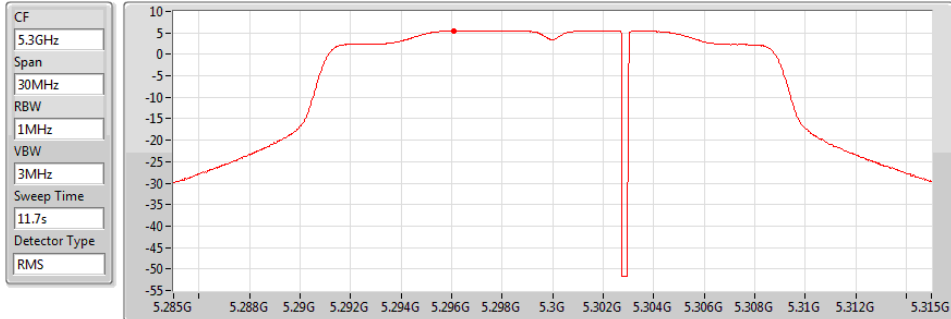
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.26	5.26		5.26

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5300MHz

16/08/2019

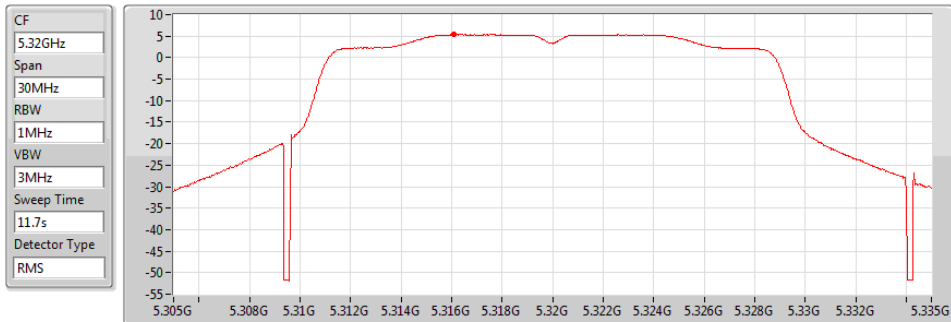


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5320MHz

16/08/2019

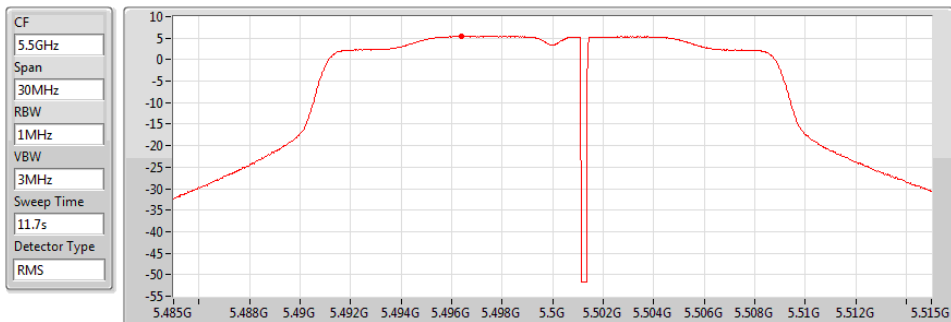


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5500MHz

16/08/2019

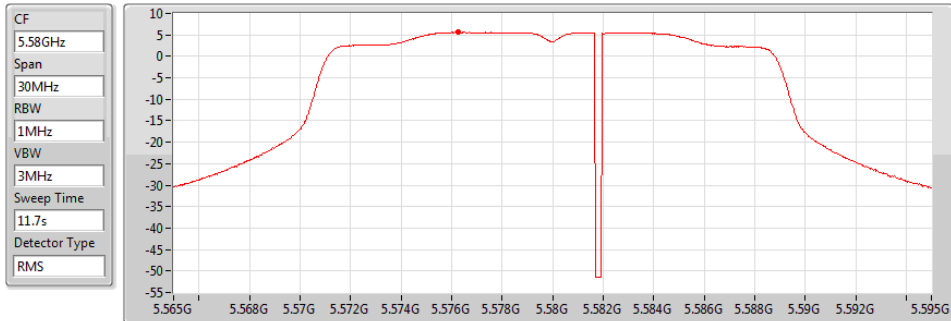


802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5580MHz

16/08/2019



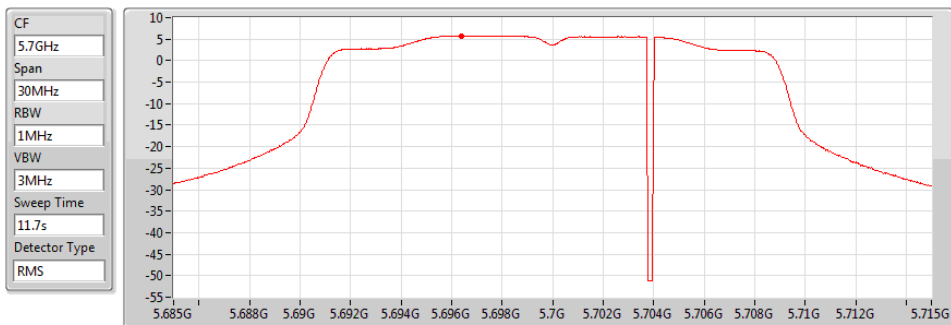
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.58	5.58		5.58

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5700MHz

16/08/2019



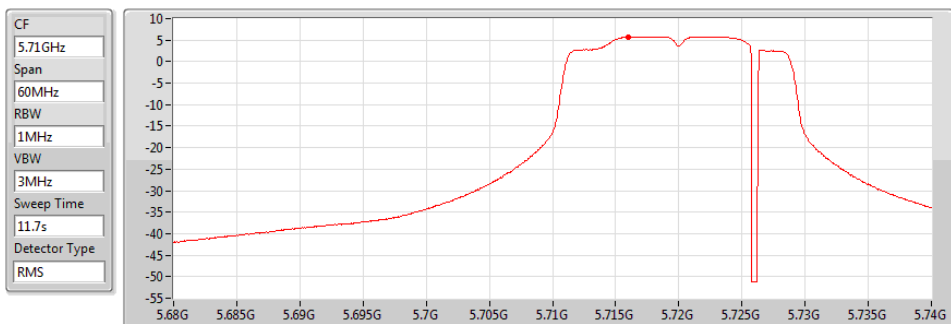
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.73	5.73		5.73

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5720MHz Straddle 5.47-5.725GHz

16/08/2019



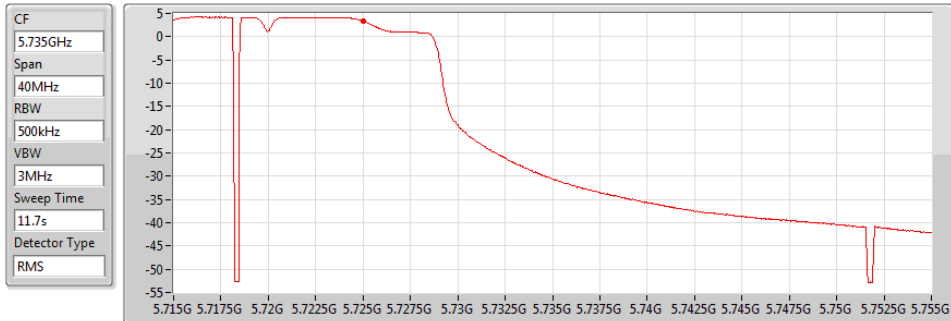
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.75	5.75		5.75

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5720MHz Straddle 5.725-5.85GHz

16/08/2019



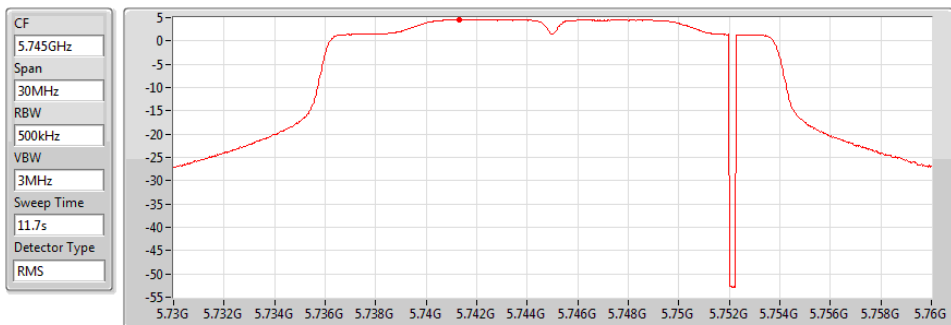
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.35	3.35		3.35

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5745MHz

16/08/2019



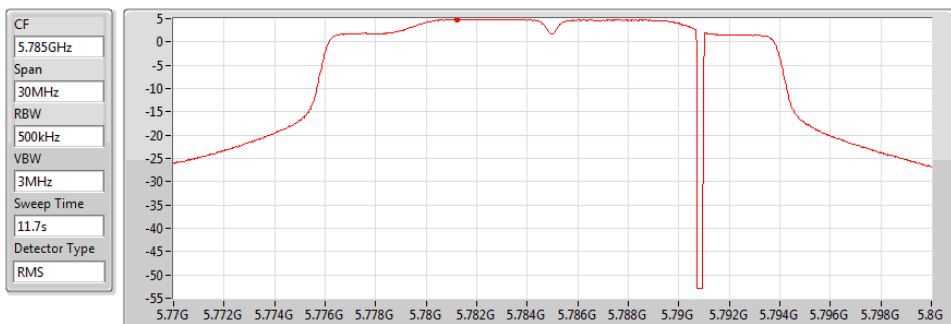
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.57	4.57		4.57

802.11ac VHT20_Nss1,(MCS0)_1TX(Port2)

PSD

5785MHz

16/08/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.83	4.83		4.83