

FCC Test Report

FCC ID : N8J-WFMD001
Equipment : Wireless module
Brand Name : JEM
Model Name : WM-AC201
Applicant : JOINSOON ELECTRONICS MFG., CO., LTD.
19F, NO. 79, Sec 1, Sintai 5th Rd., Sijhih Dist.,
New Taipei City 221, Taiwan(R.O.C)
Manufacturer : JOINSOON ELECTRONICS MFG., CO., LTD.
19F, NO. 79, Sec 1, Sintai 5th Rd., Sijhih Dist.,
New Taipei City 221, Taiwan(R.O.C)
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 02, 2019, and testing was started from Oct. 21, 2019 and completed on Mar. 25, 2020. 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

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver2.6
FCC ID: N8J-WFMD001

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: Ben Tseng

Report Producer: Michelle Tsai

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 [8]
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 [3]
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	106 [1]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
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	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	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	2TX

Band	Mode	BWch (MHz)	Nant
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 and 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	Remark
1	JEM	JEMPCBWIFI-2	PIFA	I-Pex	Group 1
2	JEM	JEMPCBWIFI-1	PIFA	I-Pex	
3	JEM	JEMPDIPOLEWIFI-1	Dipole	I-Pex	Group 2
4	JEM	JEMPDIPOLEWIFI-1	Dipole	I-Pex	
5	FEIYUXIN	3.07.XXXX	Dipole	I-Pex	Group 3
6	FEIYUXIN	3.07.XXXX	Dipole	I-Pex	

Ant.	Port	Gain (dBi)	
		2.4G	5G
1	1	2.92	3.58
2	2	2.57	2.60
3	1	4.68	3.53
4	2	4.68	3.53
5	1	2.79	3.72
6	2	2.79	3.72

Note: EUT can match with above antennas for using. Higher gain in each type of antenna was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4GHz function:

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

Port 1 and port 2 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1 and port 2 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
EUT Function	☐ Outdoor AP	☐ Indoor AP	
	☐ Fixed P2P AP	☒ Indoor	
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) $\geq 1/T$
802.11a	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT80	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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

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

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

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
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.			
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	20.1~22.2°C / 60~65%	29/Oct/2019
RF Conducted	TH01-HY	Tim Chen	23.1~24.7°C / 60~66.8%	26/Oct/2019~27/Oct/2019
Radiated	03CH02-HY	Daniel Lin	22.3~25.8°C / 55~62%	21/Oct/2019~25/Mar/2020

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Test Software Version	MP-Tool-v3.5-2017.0707
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PIFA Antenna

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	39,39
5200MHz	51,51
5240MHz	45,43
5260MHz	43,41
5300MHz	43,42
5320MHz	43,43
5500MHz	40,41
5580MHz	37,42
5700MHz	33,33
5720MHz Straddle 5.47-5.725GHz	33,37
5720MHz Straddle 5.725-5.85GHz	33,37
5745MHz	59,59
5785MHz	63,63
5825MHz	37,37
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	40,40
5200MHz	55,55
5240MHz	46,45
5260MHz	45,44
5300MHz	44,43
5320MHz	39,39
5500MHz	39,39
5580MHz	39,42



Mode	PowerSetting
5700MHz	35,36
5720MHz Straddle 5.47-5.725GHz	33,38
5720MHz Straddle 5.725-5.85GHz	33,38
5745MHz	48,48
5785MHz	48,48
5825MHz	49,49
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	33,33
5230MHz	46,44
5270MHz	45,43
5310MHz	33,33
5510MHz	32,32
5550MHz	39,42
5670MHz	35,36
5710MHz Straddle 5.47-5.725GHz	35,36
5710MHz Straddle 5.725-5.85GHz	35,36
5755MHz	47,50
5795MHz	55,55
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	33,33
5290MHz	32,32
5530MHz	32,32
5690MHz Straddle 5.47-5.725GHz	35,37
5690MHz Straddle 5.725-5.85GHz	35,37
5775MHz	42,45

**Dipole Antenna**

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	46,46
5200MHz	60,60
5240MHz	45,43
5260MHz	43,41
5300MHz	43,42
5320MHz	43,43
5500MHz	40,41
5580MHz	37,42
5700MHz	35,37
5720MHz Straddle 5.47-5.725GHz	33,37
5720MHz Straddle 5.725-5.85GHz	33,37
5745MHz	57,57
5785MHz	45,45
5825MHz	38,38
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	46,46
5200MHz	60,60
5240MHz	46,45
5260MHz	45,44
5300MHz	44,43
5320MHz	41,41
5500MHz	34,34
5580MHz	39,42
5700MHz	26,26
5720MHz Straddle 5.47-5.725GHz	33,38
5720MHz Straddle 5.725-5.85GHz	33,38
5745MHz	56,57
5785MHz	51,51
5825MHz	40,40
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	38,38
5230MHz	46,44
5270MHz	45,43

Mode	PowerSetting
5310MHz	33,33
5510MHz	32,32
5550MHz	39,42
5670MHz	35,36
5710MHz Straddle 5.47-5.725GHz	35,36
5710MHz Straddle 5.725-5.85GHz	35,36
5755MHz	47,50
5795MHz	50,50
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	31,31
5290MHz	25,25
5530MHz	27,27
5690MHz Straddle 5.47-5.725GHz	35,37
5690MHz Straddle 5.725-5.85GHz	35,37
5775MHz	39,39

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 ; PIFA Antenna
2	Adapter Mode ; Dipole Antenna

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	Adapter Mode ; PIFA Antenna
2	Adapter Mode ; Dipole Antenna
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Z Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA992607 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.	

2.4 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PIFA antenna	JEM	JEMPCBWIFI-2	-	EUT
2	PIFA antenna	JEM	JEMPCBWIFI-1	-	EUT
3	Dipole Antenna	JEM	JEMPDIPOLEWIFI-1	-	EUT
4	AC adapter	Victor	J48330-001	-	-

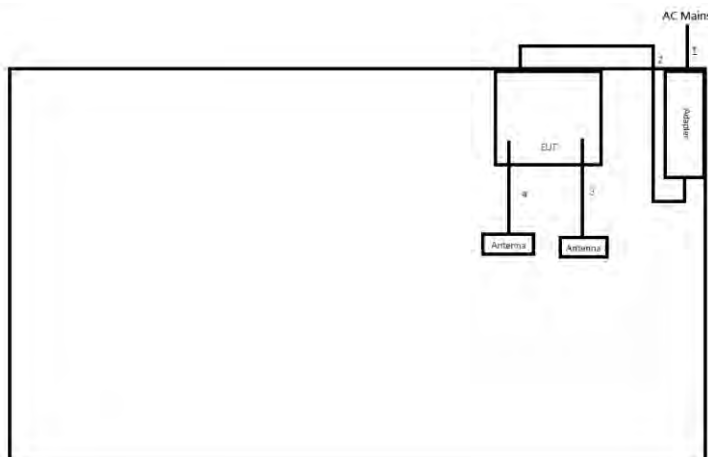
Note: Support equipment No.4 was provided by customer.

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

Note: Support equipment No.3 was provided by customer.

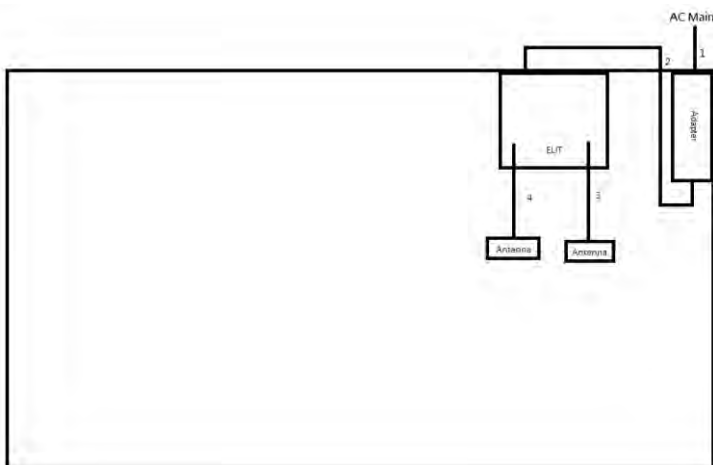
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (PIFA Antenna)

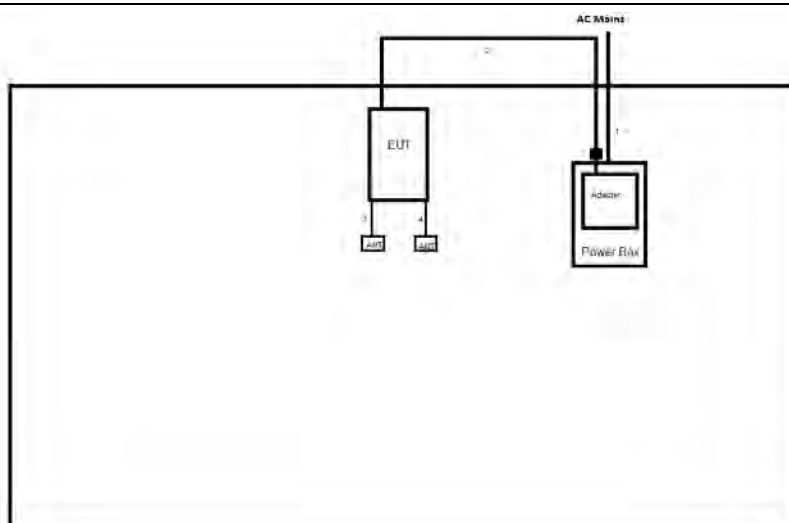


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.6	-
3	RF cable	No	0.14	-
4	RF cable	No	0.18	-

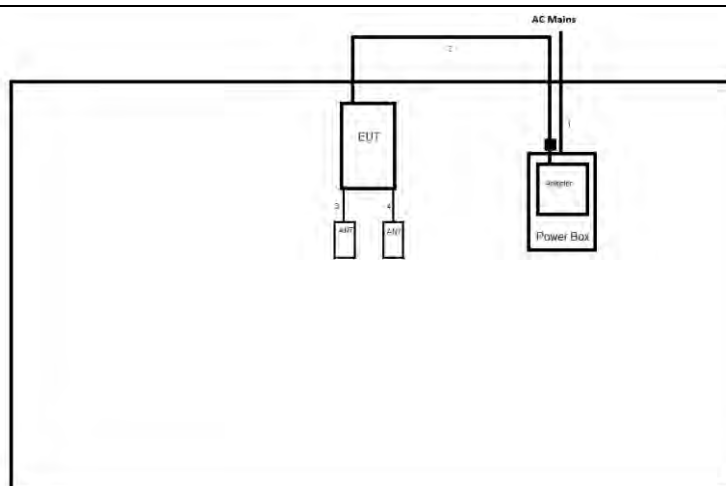
Test Setup Diagram – AC Line Conducted Emission Test (Dipole Antenna)



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.6	-
3	RF cable	No	0.07	-
4	RF cable	No	0.07	-

Test Setup Diagram - Radiated Test (PIFA Antenna)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.6	-
3	RF cable	No	0.14	-
4	RF cable	No	0.18	-

Test Setup Diagram - Radiated Test (Dipole Antenna)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.5	-
2	DC Power cable	No	1.6	-
3	RF cable	No	0.07	-
4	RF cable	No	0.07	-

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.		

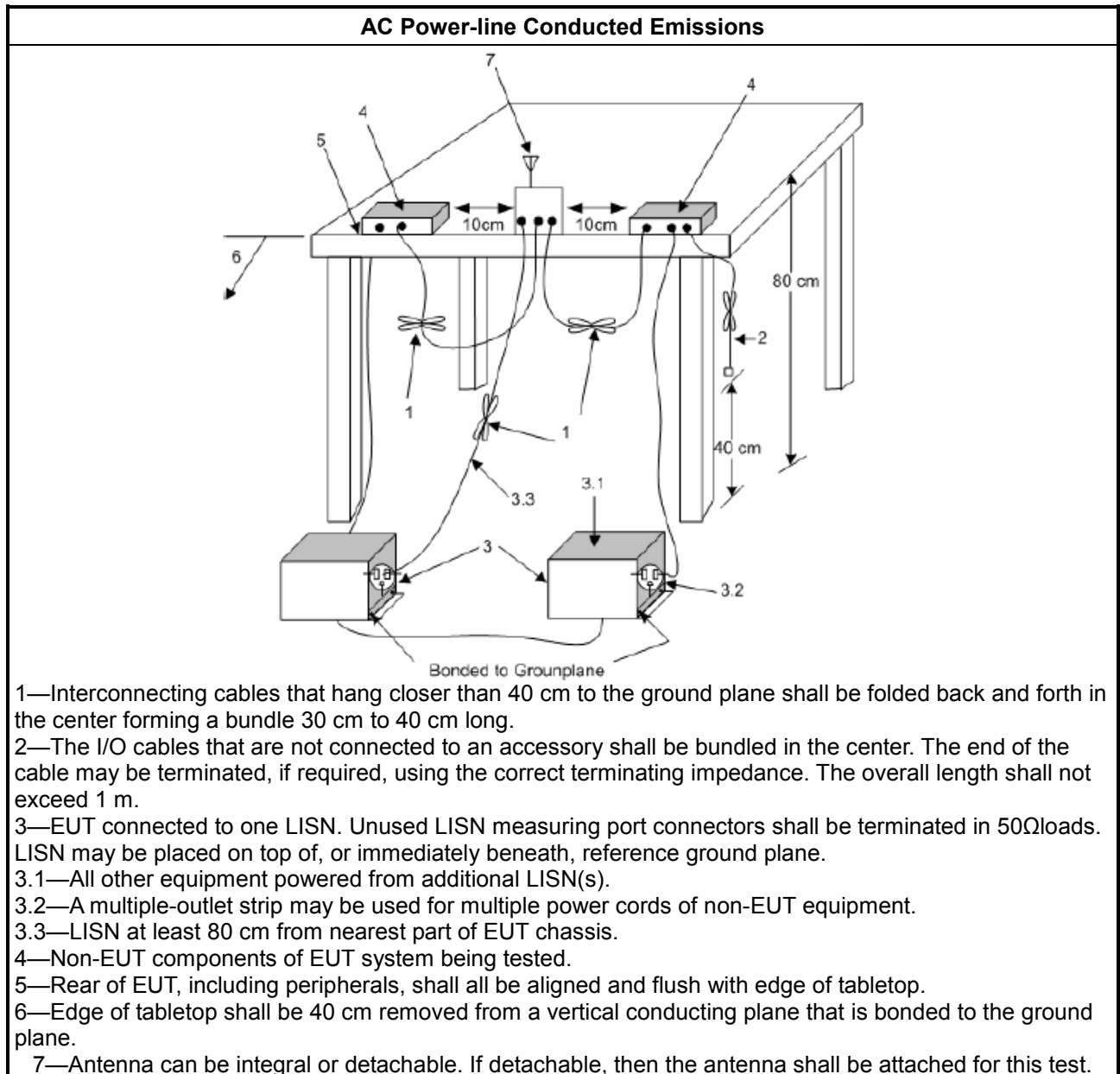
3.1.2 Measuring Instruments

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.

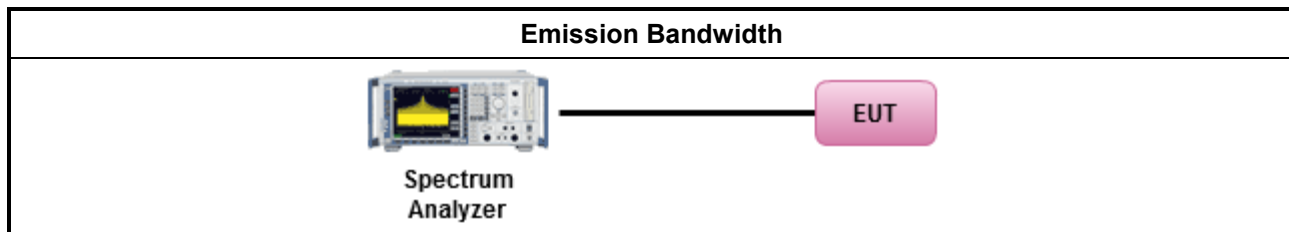
3.2.2 Measuring Instruments

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 $11 \text{ dBm} + 10 \log B$, 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 $11 \text{ dBm} + 10 \log B$, 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.	

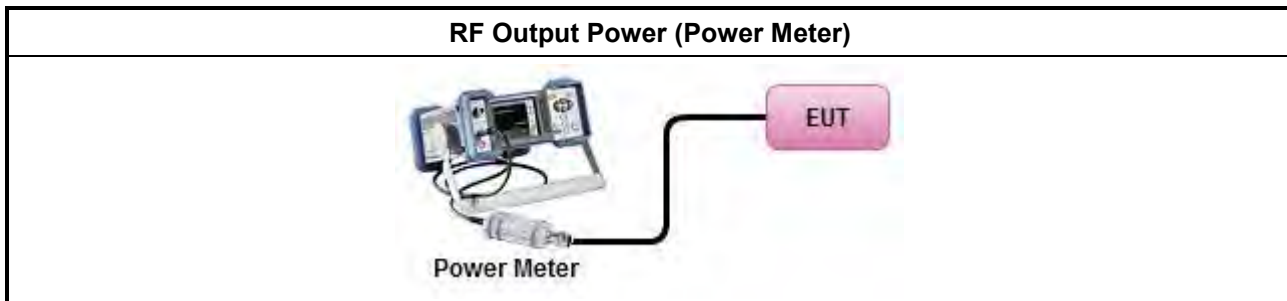
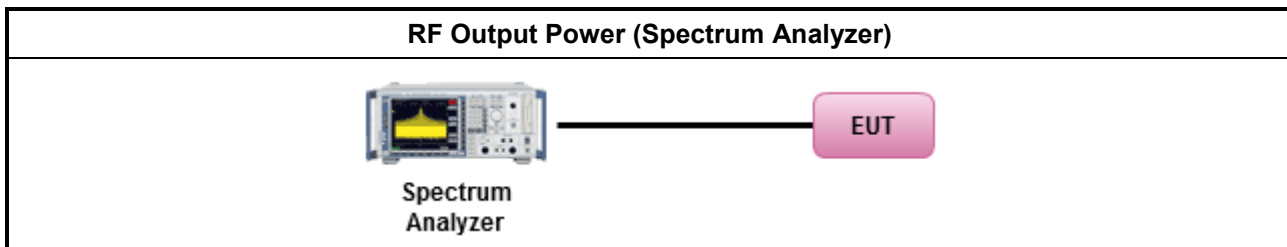
3.3.2 Measuring Instruments

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.	

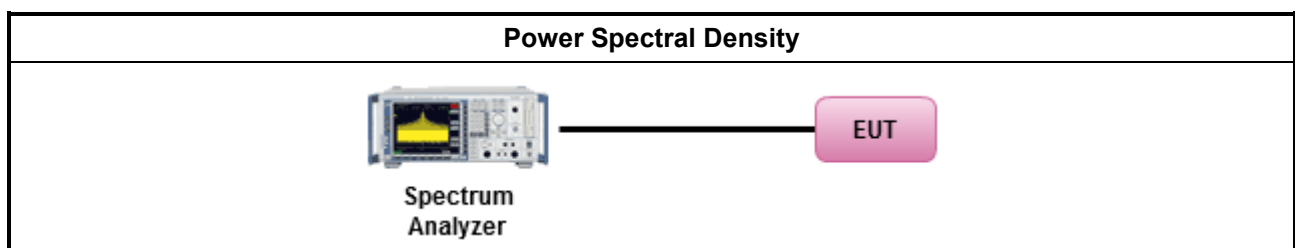
3.4.2 Measuring Instruments

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).

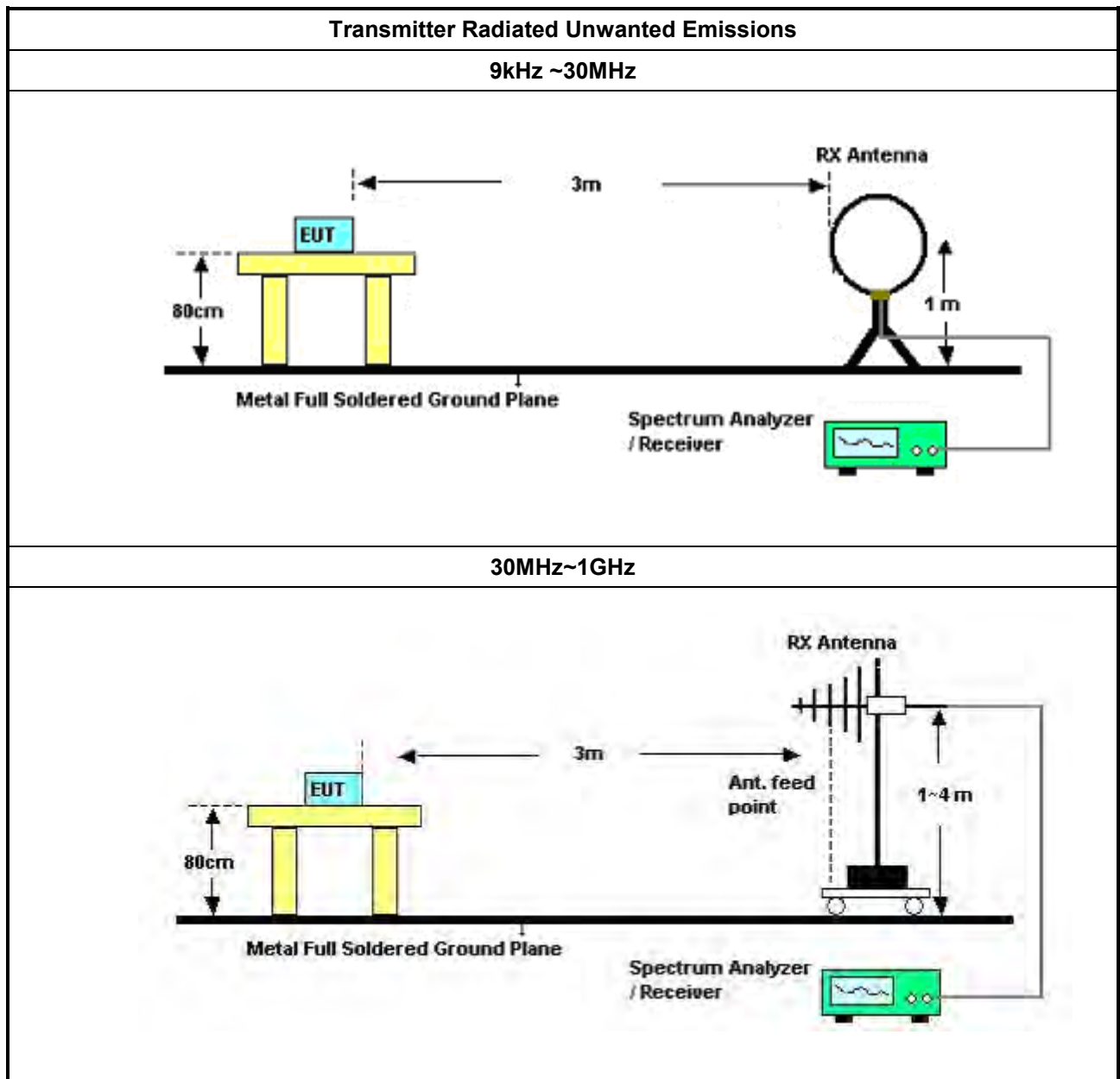
3.5.2 Measuring Instruments

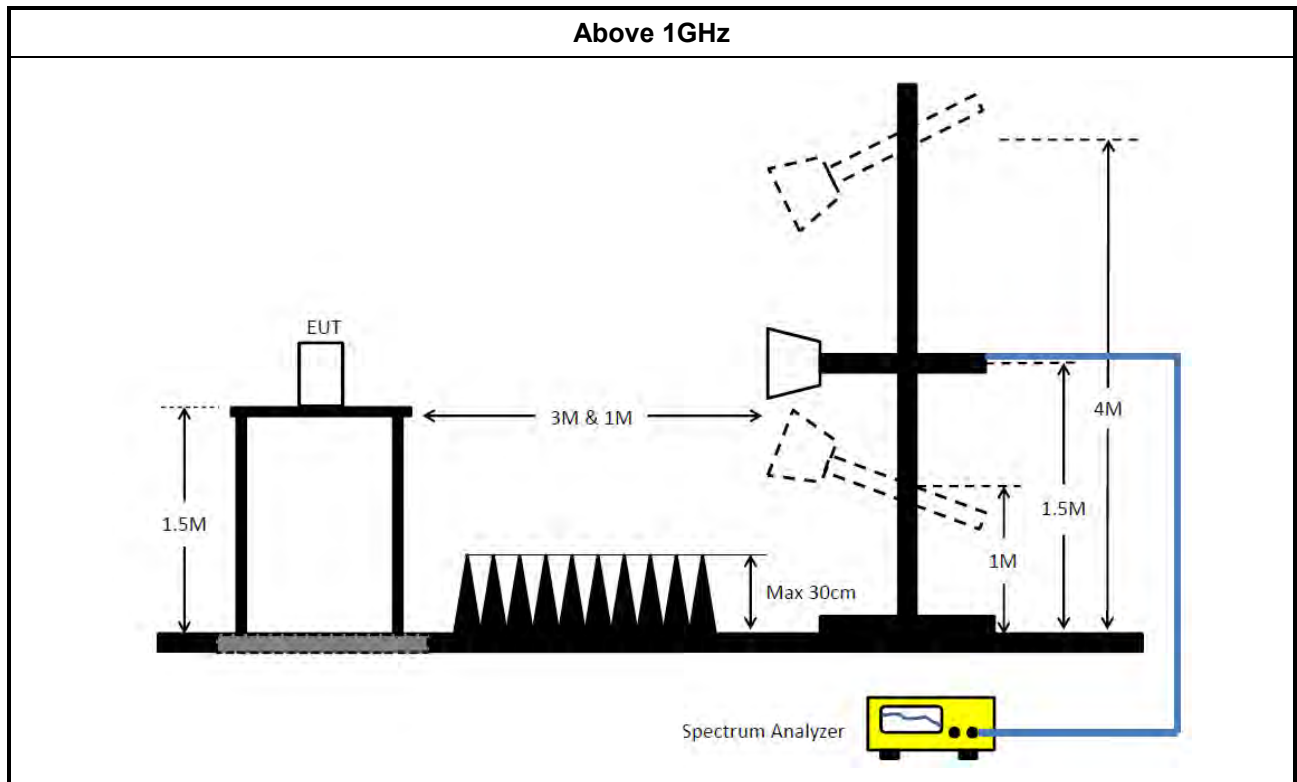
Refer a test equipment and calibration data table in this test report.

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.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.5.4 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	12/Sep/2019	11/Sep/2020
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	24/Sep/2019	23/Sep/2020

NCR: Non-Calibration Require

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
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz~18G	11/Jan/2019	10/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable – 05	30MHz~18G	11/Jan/2019	10/Jan/2020

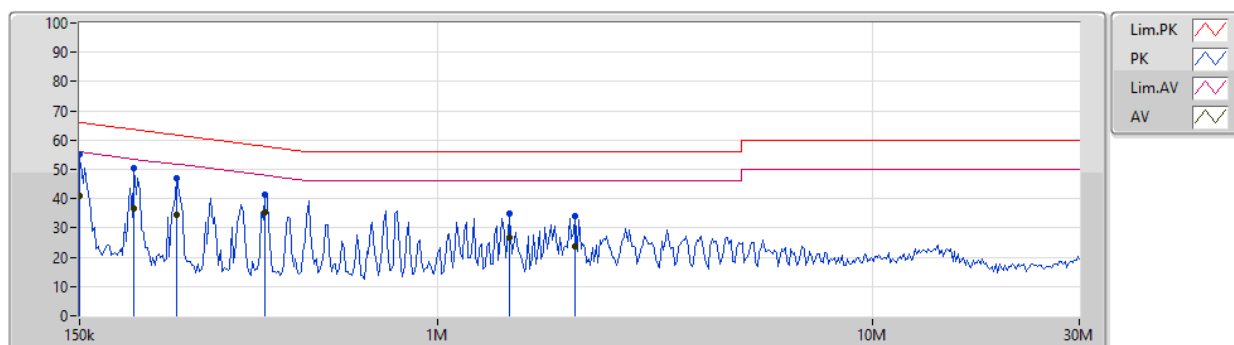
Instrument for Radiated Test

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	29/Aug/2019	28/Aug/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	29/Aug/2019	28/Aug/2020
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	02/Jul/2019	01/Jul/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	16/Oct/2019	15/Oct/2020
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	15/Aug/2019	14/Aug/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Mar/2019	25/Mar/2020
RF Cable-high 6m	SUHNER	SUCOFLEX104	10567868 / SN805193/4	1GHz~40GHz	09/Apr/2019	08/Apr/2020
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	20/Mar/2020	19/Mar/2021
RF Cable-high 6m	SUHNER	SUCOFLEX104	10567868 / SN805193/4	1GHz~40GHz	09/Apr/2019	08/Apr/2020
RF Cable-high 7m	SUHNER	SUCOFLEX104	10567868 / SN805192/4	1GHz~40GHz	09/Apr/2019	08/Apr/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	11/Oct/2019	10/Oct/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170339	18GHz ~ 40GHz	19/Apr/2019	18/Apr/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020
Loop Antenna	TESEQ	HLA 6120	24155	9kHz-30MHz	29/Mar/2019	28/Mar/2020
Loop Antenna	TESEQ	HLA 6120	31244	9kHz-30MHz	16/Mar/2020	15/Mar/2021

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode ; PIFA Antenna		

29/10/2019

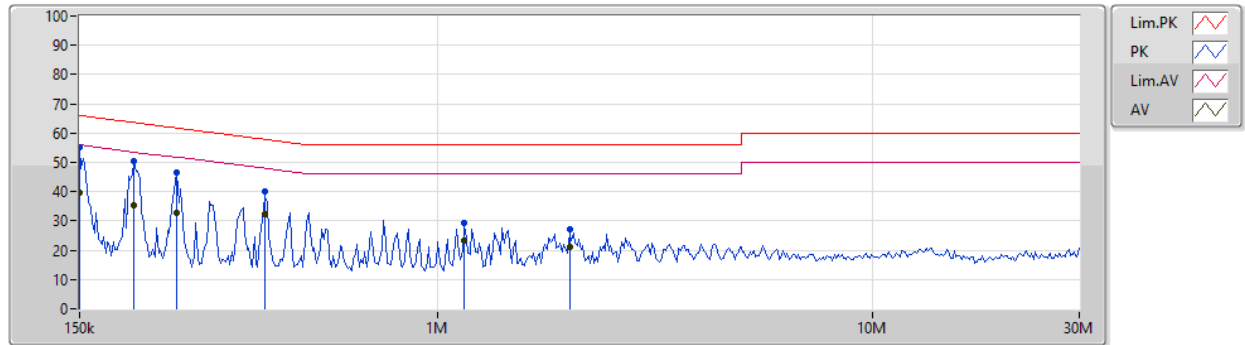


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	55.24	66.00	-10.76	19.58	Neutral	"Worst"	35.66	9.60	0.11	9.87			
AV	150k	41.14	56.00	-14.86	19.58	Neutral	-	21.56	9.60	0.11	9.87			
QP	200.176k	50.55	63.61	-13.06	19.57	Neutral	-	30.98	9.59	0.11	9.87			
AV	200.176k	36.76	53.61	-16.85	19.57	Neutral	-	17.19	9.59	0.11	9.87			
QP	251.653k	46.87	61.70	-14.83	19.58	Neutral	-	27.29	9.59	0.12	9.87			
AV	251.653k	34.55	51.70	-17.15	19.58	Neutral	-	14.97	9.59	0.12	9.87			
QP	401.705k	41.38	57.82	-16.44	19.60	Neutral	-	21.78	9.59	0.13	9.88			
AV	401.705k	35.33	47.82	-12.49	19.60	Neutral	-	15.73	9.59	0.13	9.88			
QP	1.464M	34.70	56.00	-21.30	19.62	Neutral	-	15.08	9.60	0.13	9.89			
AV	1.464M	26.51	46.00	-19.49	19.62	Neutral	-	6.89	9.60	0.13	9.89			
QP	2.075M	33.98	56.00	-22.02	19.65	Neutral	-	14.33	9.61	0.15	9.89			
AV	2.075M	23.91	46.00	-22.09	19.65	Neutral	-	4.26	9.61	0.15	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode ; PIFA Antenna		

29/10/2019

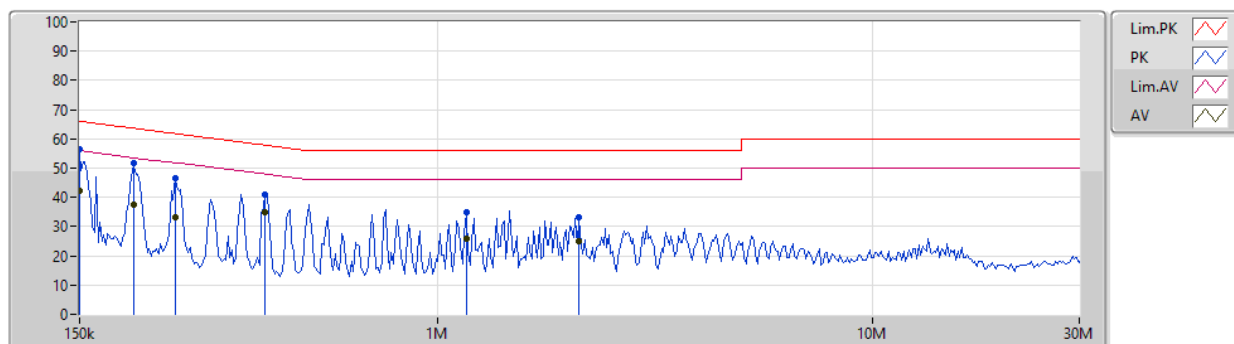


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	55.20	66.00	-10.80	19.58	Line	"Worst"	35.62	9.60	0.11	9.87			
AV	150k	39.50	56.00	-16.50	19.58	Line	-	19.92	9.60	0.11	9.87			
QP	200.176k	50.53	63.61	-13.08	19.58	Line	-	30.95	9.60	0.11	9.87			
AV	200.176k	35.37	53.61	-18.24	19.58	Line	-	15.79	9.60	0.11	9.87			
QP	251.653k	46.73	61.70	-14.97	19.59	Line	-	27.14	9.60	0.12	9.87			
AV	251.653k	32.95	51.70	-18.75	19.59	Line	-	13.36	9.60	0.12	9.87			
QP	401.705k	40.16	57.82	-17.66	19.60	Line	-	20.56	9.59	0.13	9.88			
AV	401.705k	32.28	47.82	-15.54	19.60	Line	-	12.68	9.59	0.13	9.88			
QP	1.153M	29.38	56.00	-26.62	19.61	Line	-	9.77	9.61	0.12	9.88			
AV	1.153M	23.31	46.00	-22.69	19.61	Line	-	3.70	9.61	0.12	9.88			
QP	2.014M	27.29	56.00	-28.71	19.66	Line	-	7.63	9.62	0.15	9.89			
AV	2.014M	21.19	46.00	-24.81	19.66	Line	-	1.53	9.62	0.15	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	Adapter Mode ; Dipole Antenna		

29/10/2019

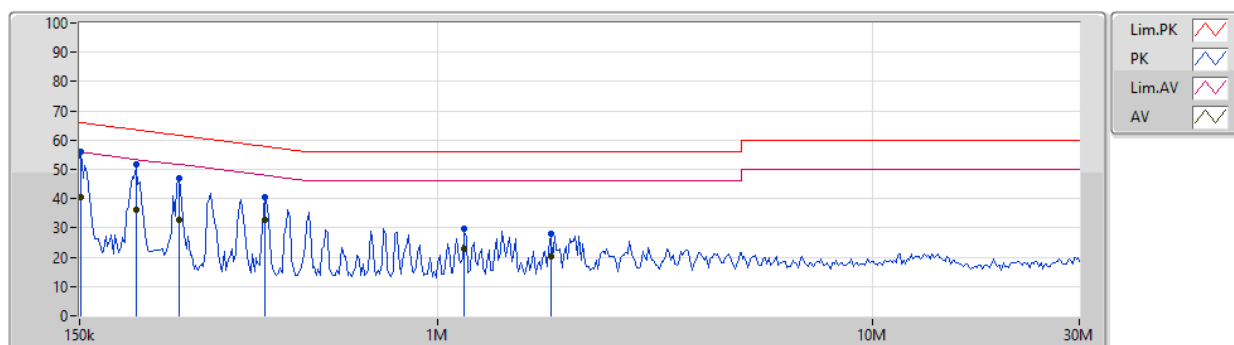


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	56.50	66.00	-9.50	19.58	Neutral	"Worst"	36.92	9.60	0.11	9.87			
AV	150k	42.18	56.00	-13.82	19.58	Neutral	-	22.60	9.60	0.11	9.87			
QP	200.176k	51.74	63.61	-11.87	19.57	Neutral	-	32.17	9.59	0.11	9.87			
AV	200.176k	37.65	53.61	-15.96	19.57	Neutral	-	18.08	9.59	0.11	9.87			
QP	249.162k	46.65	61.79	-15.14	19.58	Neutral	-	27.07	9.59	0.12	9.87			
AV	249.162k	33.27	51.79	-18.52	19.58	Neutral	-	13.69	9.59	0.12	9.87			
QP	401.705k	41.12	57.82	-16.70	19.60	Neutral	-	21.52	9.59	0.13	9.88			
AV	401.705k	35.07	47.82	-12.75	19.60	Neutral	-	15.47	9.59	0.13	9.88			
QP	1.165M	34.83	56.00	-21.17	19.60	Neutral	-	15.23	9.60	0.12	9.88			
AV	1.165M	25.83	46.00	-20.17	19.60	Neutral	-	6.23	9.60	0.12	9.88			
QP	2.116M	33.10	56.00	-22.90	19.65	Neutral	-	13.45	9.61	0.15	9.89			
AV	2.116M	25.19	46.00	-20.81	19.65	Neutral	-	5.54	9.61	0.15	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	Adapter Mode ; Dipole Antenna		

29/10/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.5k	56.18	65.92	-9.74	19.58	Line	"Worst"	36.60	9.60	0.11	9.87			
AV	151.5k	40.44	55.92	-15.48	19.58	Line	-	20.86	9.60	0.11	9.87			
QP	202.177k	51.52	63.51	-11.99	19.58	Line	-	31.94	9.60	0.11	9.87			
AV	202.177k	36.24	53.51	-17.27	19.58	Line	-	16.66	9.60	0.11	9.87			
QP	254.17k	46.89	61.62	-14.73	19.59	Line	-	27.30	9.60	0.12	9.87			
AV	254.17k	32.79	51.62	-18.83	19.59	Line	-	13.20	9.60	0.12	9.87			
QP	401.705k	40.69	57.82	-17.13	19.60	Line	-	21.09	9.59	0.13	9.88			
AV	401.705k	32.93	47.82	-14.89	19.60	Line	-	13.33	9.59	0.13	9.88			
QP	1.153M	29.62	56.00	-26.38	19.61	Line	-	10.01	9.61	0.12	9.88			
AV	1.153M	22.73	46.00	-23.27	19.61	Line	-	3.12	9.61	0.12	9.88			
QP	1.823M	28.08	56.00	-27.92	19.65	Line	-	8.43	9.62	0.14	9.89			
AV	1.823M	20.43	46.00	-25.57	19.65	Line	-	0.78	9.62	0.14	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)_2TX	46.29M	27.376M	27M4D1D	21.42M	17.571M
802.11ac VHT20_Nss1,(MCS0)_2TX	50.1M	31.964M	32M0D1D	22.35M	17.631M
802.11ac VHT40_Nss1,(MCS0)_2TX	87.24M	37.541M	37M5D1D	43.44M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.56M	75.442M	75M4D1D	82.56M	75.442M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	43.5M	19.67M	19M7D1D	43.08M	17.991M
802.11ac VHT20_Nss1,(MCS0)_2TX	43.59M	19.94M	19M9D1D	42.48M	17.781M
802.11ac VHT40_Nss1,(MCS0)_2TX	87.96M	39.1M	39M1D1D	51.54M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.68M	75.442M	75M4D1D	82.56M	75.322M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	43.71M	19.58M	19M6D1D	23.31M	13.988M
802.11ac VHT20_Nss1,(MCS0)_2TX	44.43M	19.82M	19M8D1D	23.43M	14.168M
802.11ac VHT40_Nss1,(MCS0)_2TX	88.92M	39.1M	39M1D1D	43.38M	33.093M
802.11ac VHT80_Nss1,(MCS0)_2TX	117.6M	75.562M	75M6D1D	82.68M	72.564M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	17.7M	43.628M	43M6D1D	3.76M	7.956M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.7M	37.421M	37M4D1D	3.76M	8.916M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.48M	80.3M	80M3D1D	3.22M	13.213M
802.11ac VHT80_Nss1,(MCS0)_2TX	76.08M	106.507M	107MD1D	3.16M	31.704M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.42M	17.601M	21.54M	17.571M
5200MHz	Pass	Inf	45.15M	23.718M	46.29M	27.376M
5240MHz	Pass	Inf	43.2M	18.231M	43.17M	19.01M
5260MHz	Pass	Inf	43.23M	18.051M	43.08M	17.991M
5300MHz	Pass	Inf	43.35M	18.381M	43.11M	17.991M
5320MHz	Pass	Inf	43.5M	19.67M	43.29M	18.231M
5500MHz	Pass	Inf	43.56M	19.13M	42.6M	17.811M
5580MHz	Pass	Inf	43.71M	19.58M	43.38M	18.051M
5700MHz	Pass	Inf	43.5M	18.111M	23.43M	17.601M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	26.52M	14.363M	23.31M	13.988M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	9.075M	3.76M	7.956M
5745MHz	Pass	500k	17.64M	39.79M	17.67M	37.721M
5785MHz	Pass	500k	17.7M	43.628M	17.67M	41.199M
5825MHz	Pass	500k	17.67M	21.859M	17.58M	17.691M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.35M	17.631M	39.15M	17.751M
5200MHz	Pass	Inf	47.43M	28.336M	50.1M	31.964M
5240MHz	Pass	Inf	43.11M	18.651M	43.32M	19.16M
5260MHz	Pass	Inf	43.32M	18.651M	43.44M	19.13M
5300MHz	Pass	Inf	43.59M	19.94M	43.26M	18.261M
5320MHz	Pass	Inf	43.08M	17.961M	42.48M	17.781M
5500MHz	Pass	Inf	43.56M	18.891M	28.74M	17.661M
5580MHz	Pass	Inf	43.71M	19.07M	43.47M	18.411M
5700MHz	Pass	Inf	44.43M	19.82M	38.34M	17.691M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	23.445M	14.273M	23.43M	14.168M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	8.916M	3.76M	9.135M
5745MHz	Pass	500k	17.67M	35.352M	17.67M	29.055M
5785MHz	Pass	500k	17.64M	34.453M	17.7M	28.186M
5825MHz	Pass	500k	17.64M	37.421M	17.7M	32.204M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	43.5M	36.222M	43.44M	36.222M
5230MHz	Pass	Inf	87.24M	37.541M	85.5M	37.481M
5270MHz	Pass	Inf	87.96M	38.681M	87.42M	39.1M
5310MHz	Pass	Inf	56.22M	36.282M	51.54M	36.222M
5510MHz	Pass	Inf	64.38M	36.282M	43.38M	36.162M
5550MHz	Pass	Inf	86.76M	39.04M	85.44M	37.601M
5670MHz	Pass	Inf	88.92M	39.1M	73.02M	36.402M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	55.685M	34.178M	51.555M	33.093M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.24M	22.989M	3.22M	13.213M
5755MHz	Pass	500k	36.48M	63.028M	36.42M	54.393M
5795MHz	Pass	500k	36.36M	80.3M	36.42M	70.465M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.56M	75.442M	82.56M	75.442M



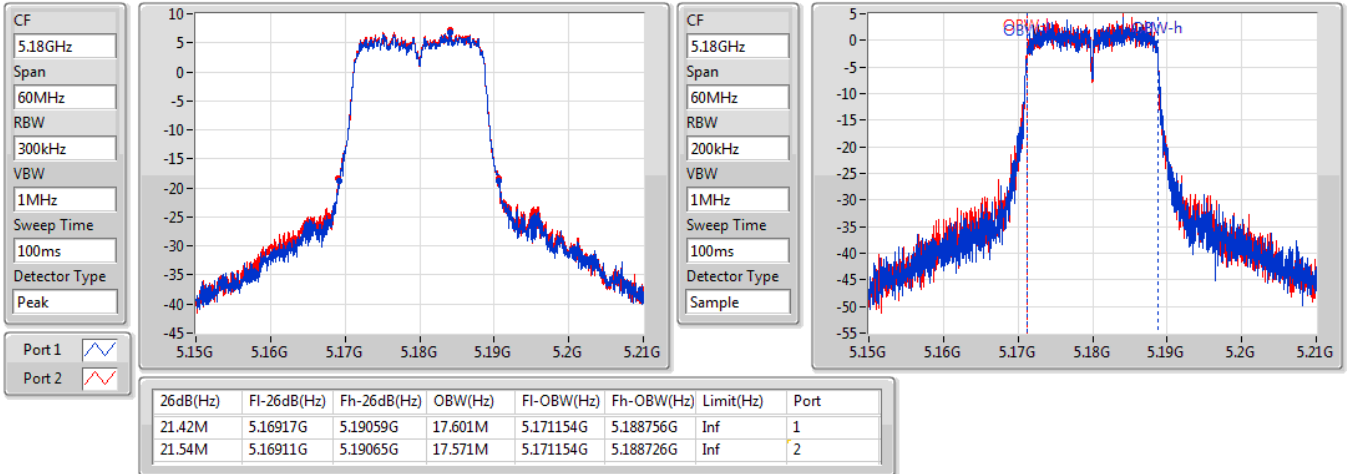
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5290MHz	Pass	Inf	82.68M	75.322M	82.56M	75.442M
5530MHz	Pass	Inf	89.88M	75.562M	82.68M	75.322M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	117.6M	73.388M	97.275M	72.564M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	36.082M	3.16M	31.704M
5775MHz	Pass	500k	75.84M	106.507M	76.08M	86.597M

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

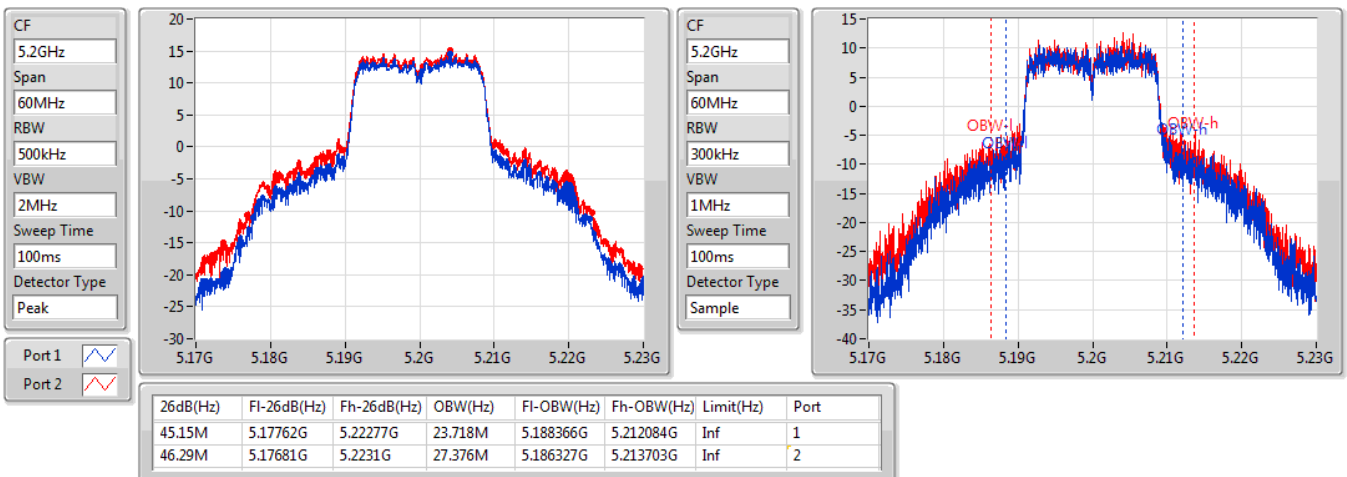
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

26/10/2019

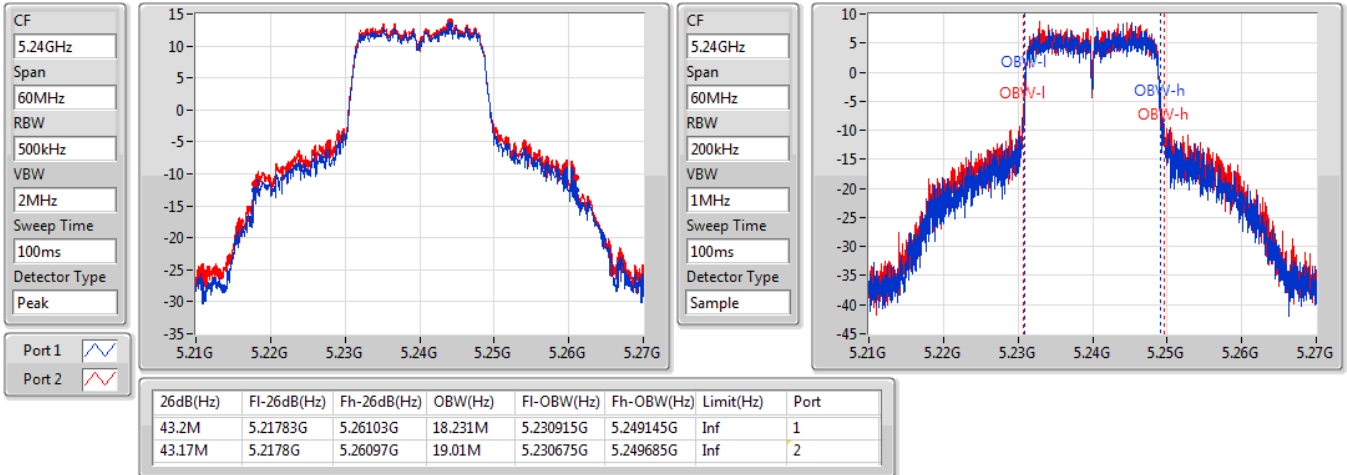

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

26/10/2019

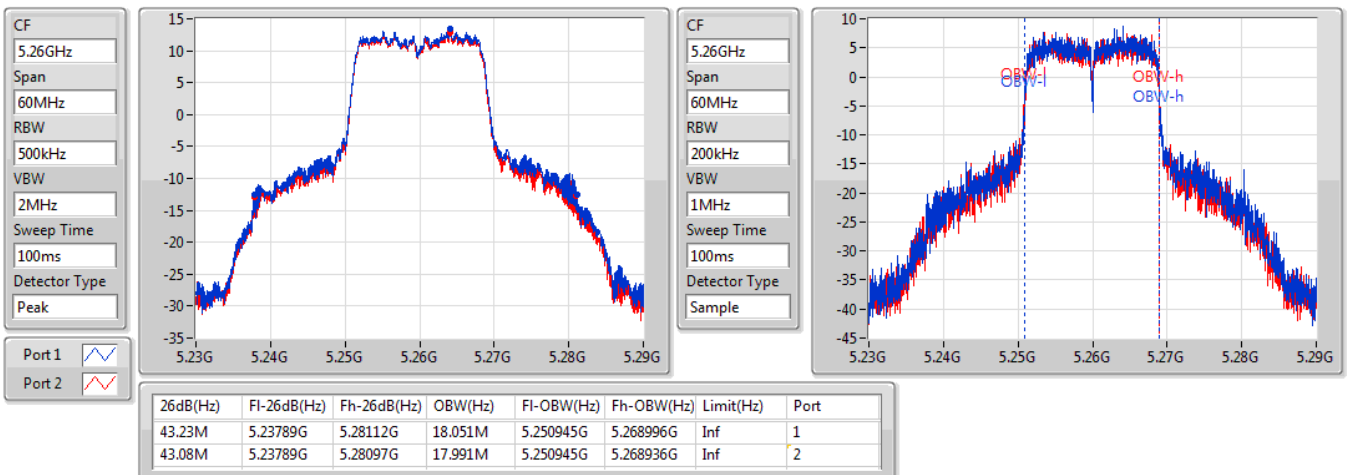


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

26/10/2019

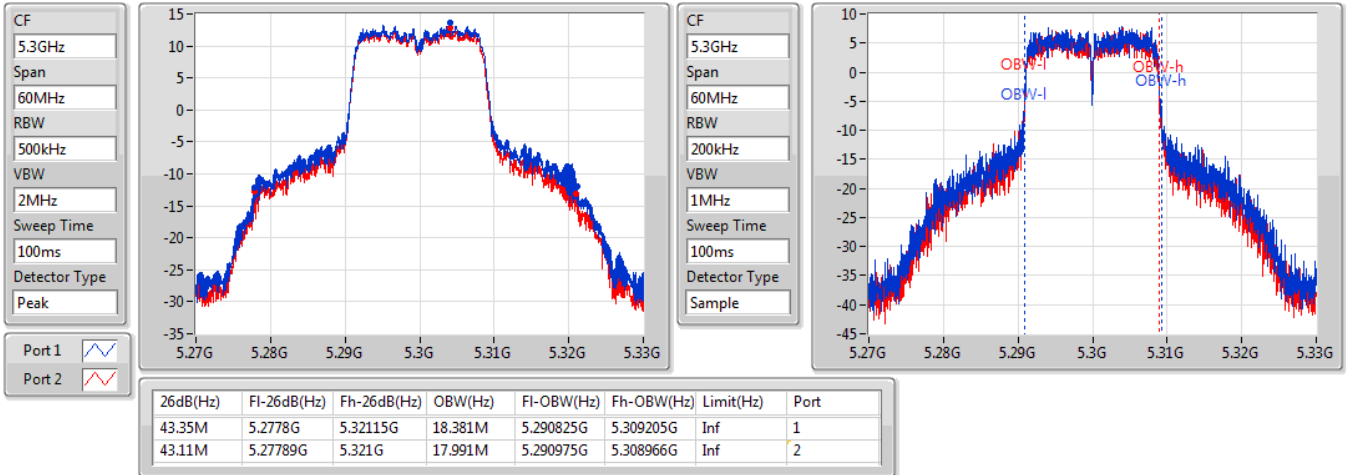

802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

26/10/2019

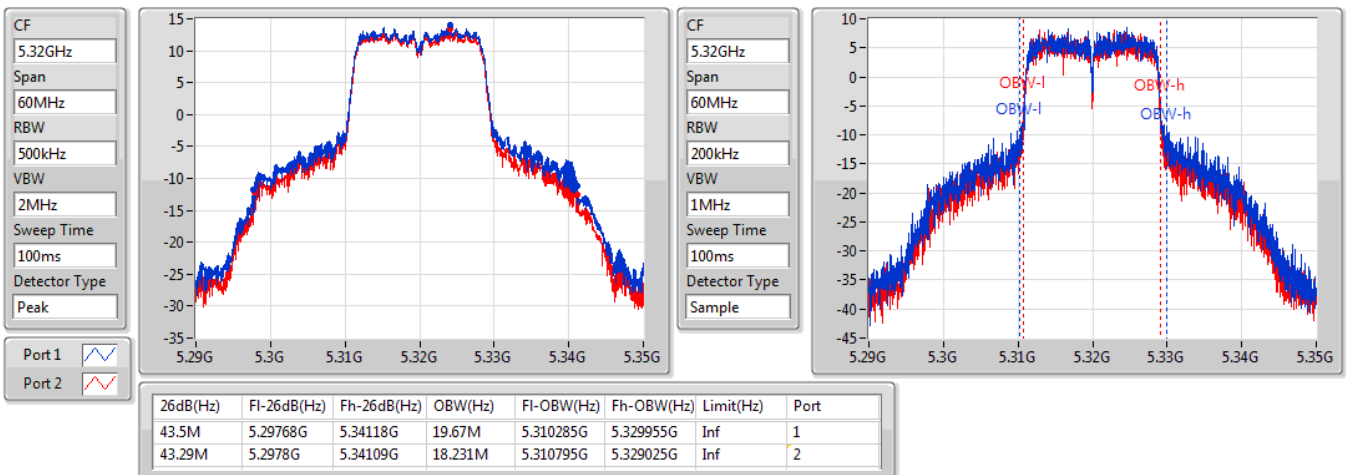


802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

26/10/2019

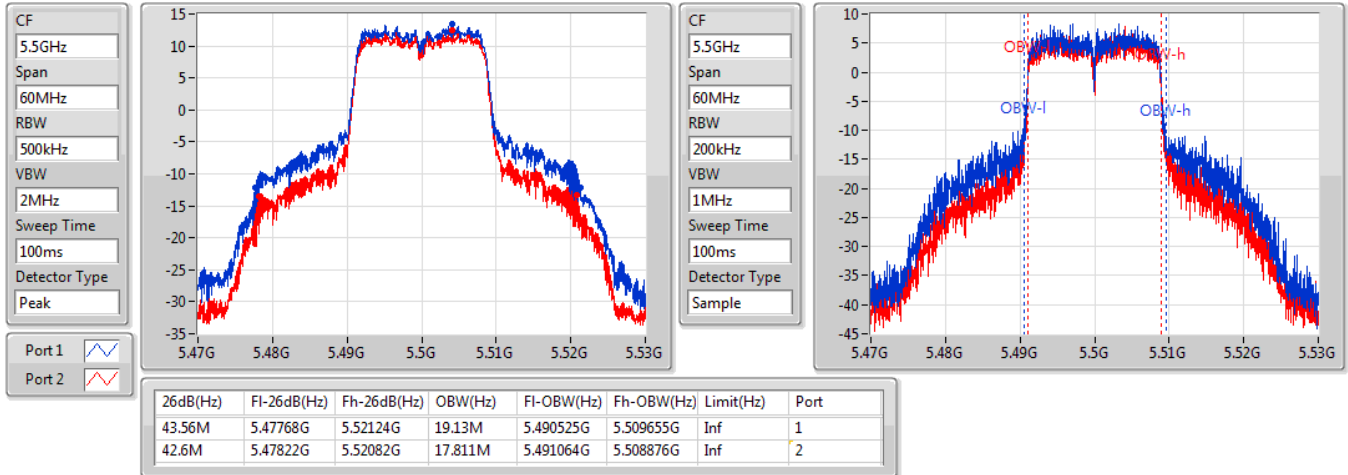

802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

26/10/2019

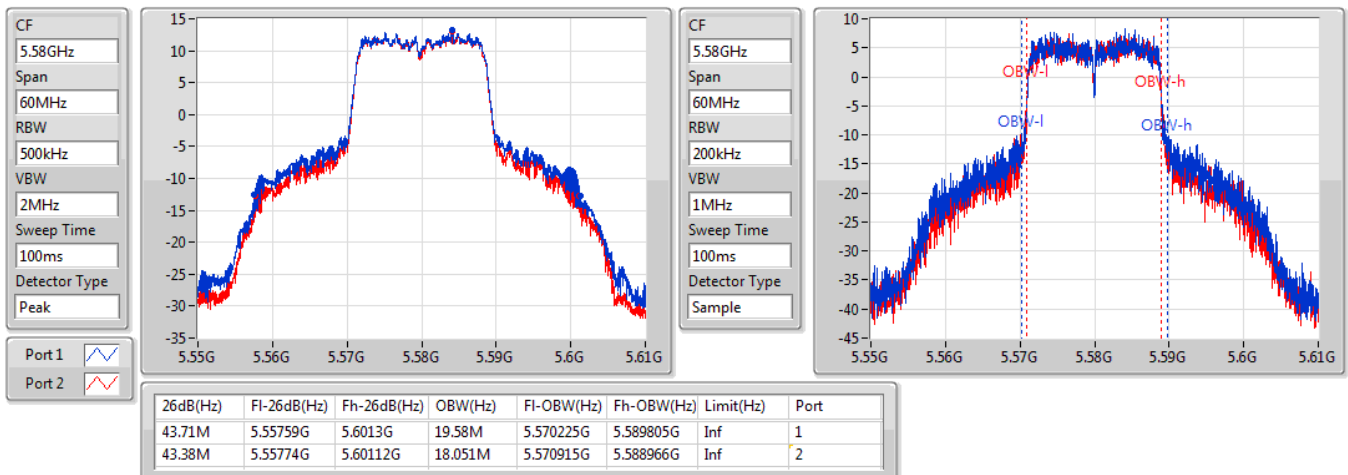


802.11a_Nss1,(6Mbps)_2TX
EBW
5500MHz

26/10/2019

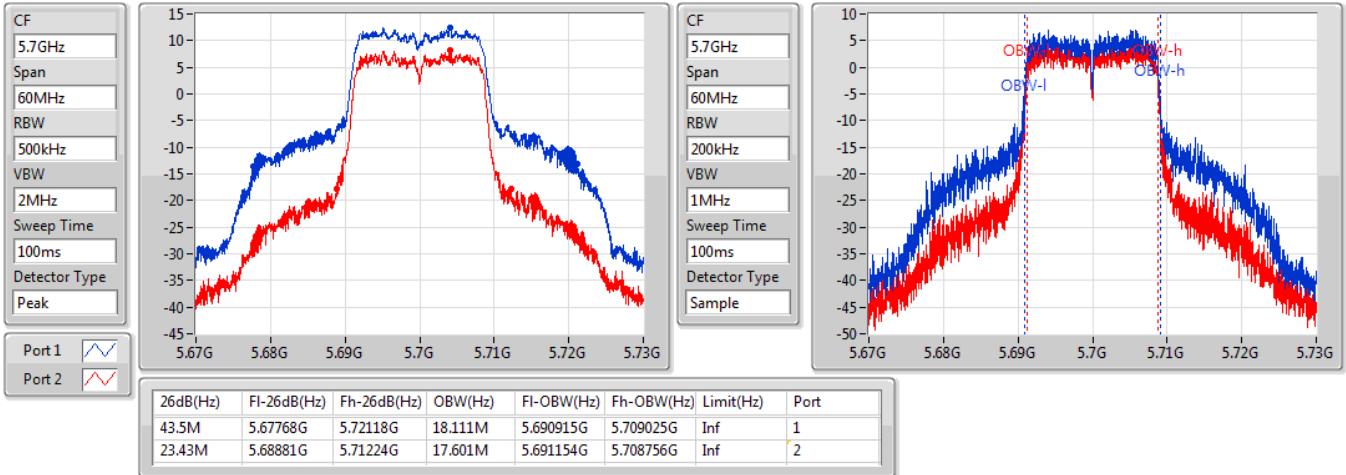

802.11a_Nss1,(6Mbps)_2TX
EBW
5580MHz

27/10/2019

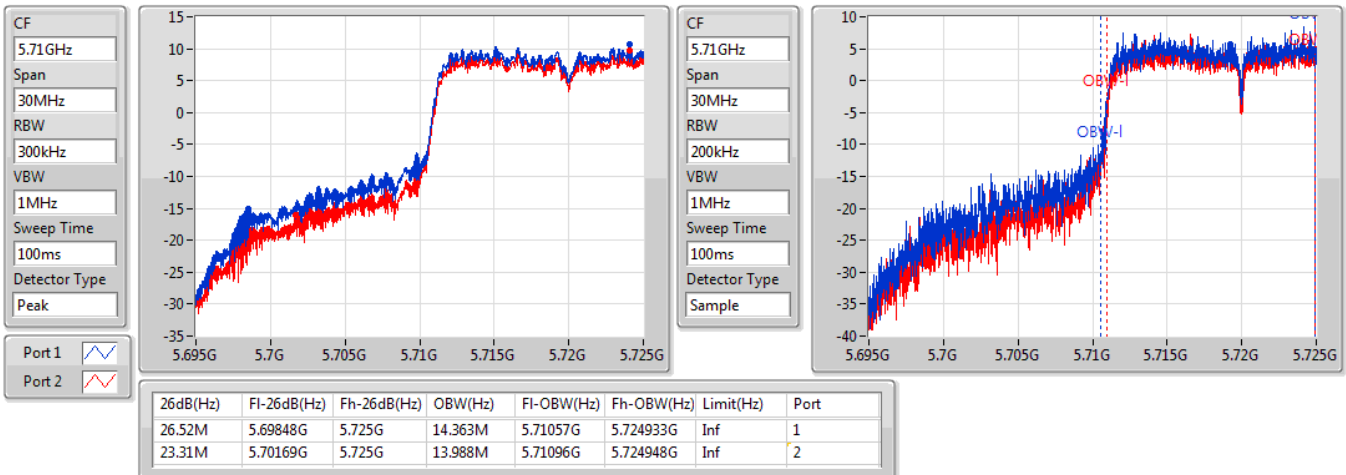


802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

27/10/2019

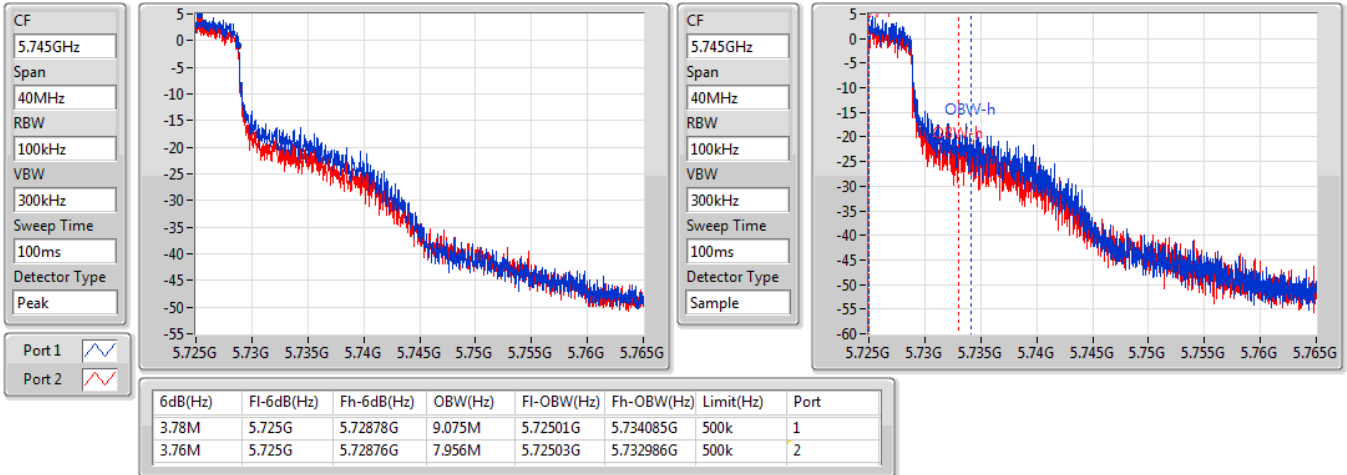

802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

27/10/2019

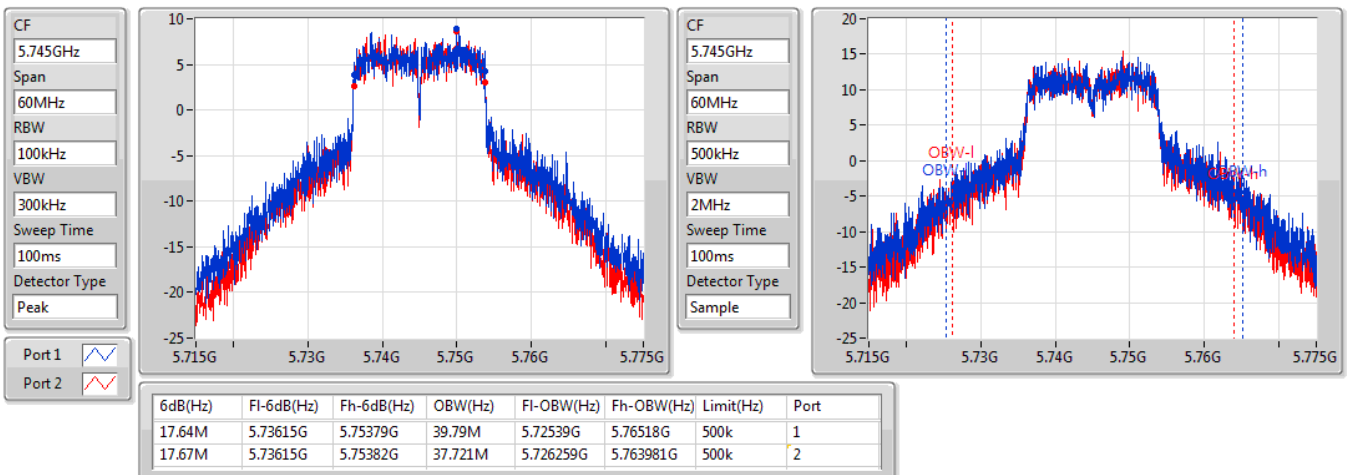


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/10/2019

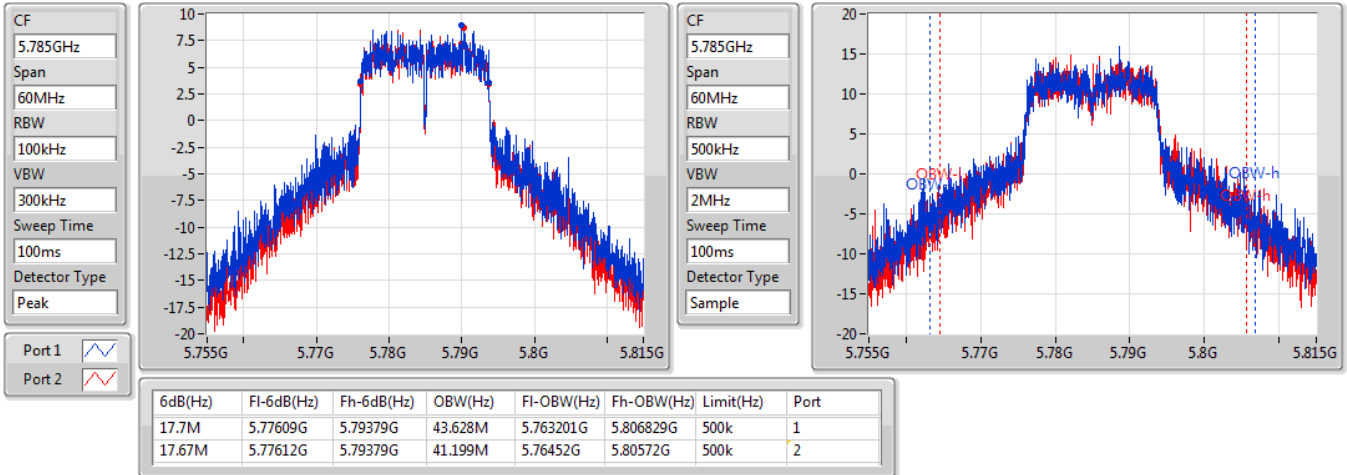

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

27/10/2019

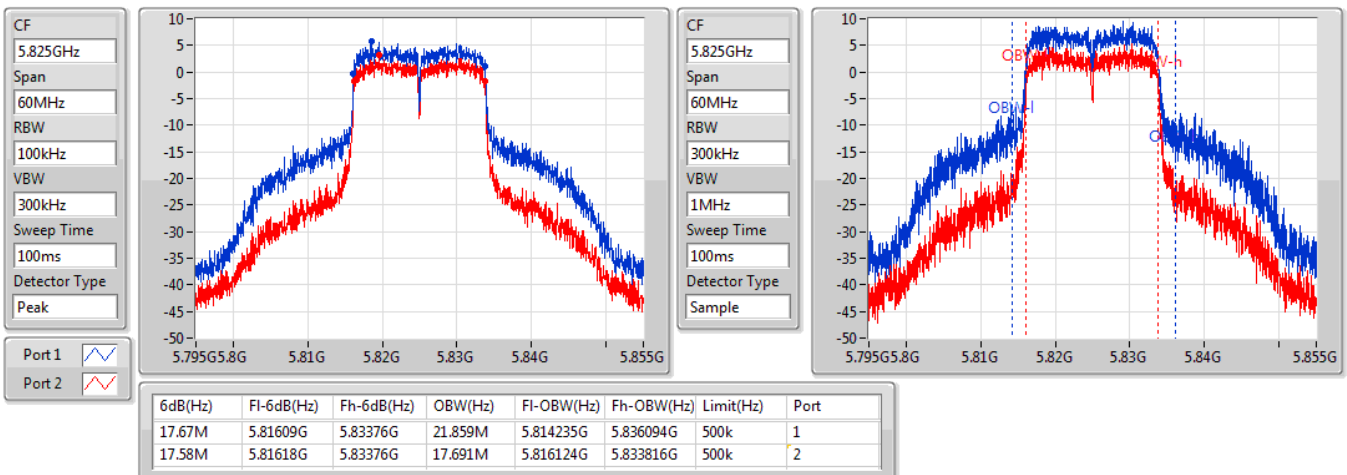


802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

27/10/2019

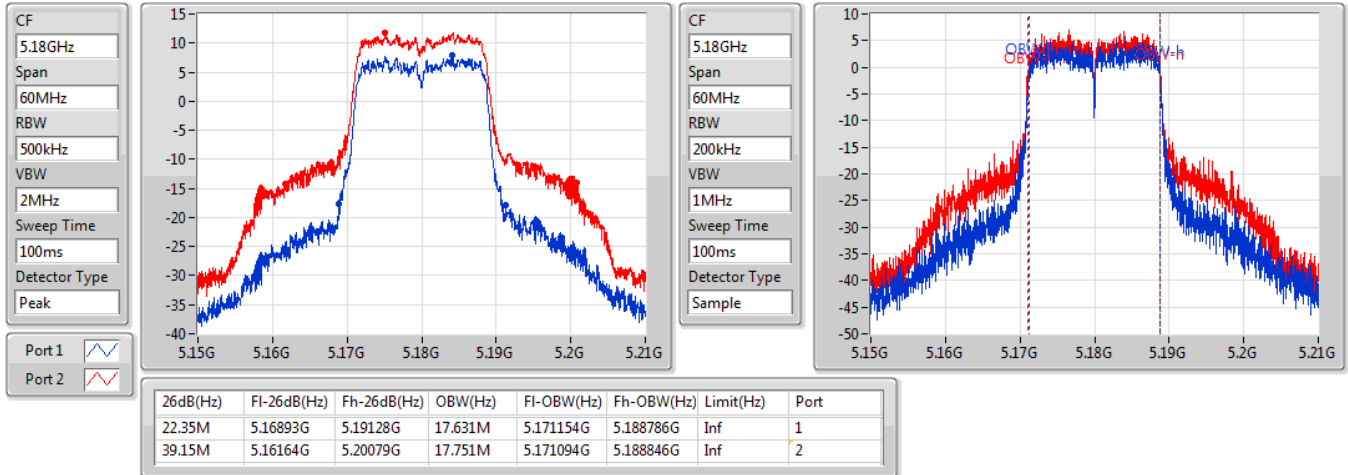

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

27/10/2019

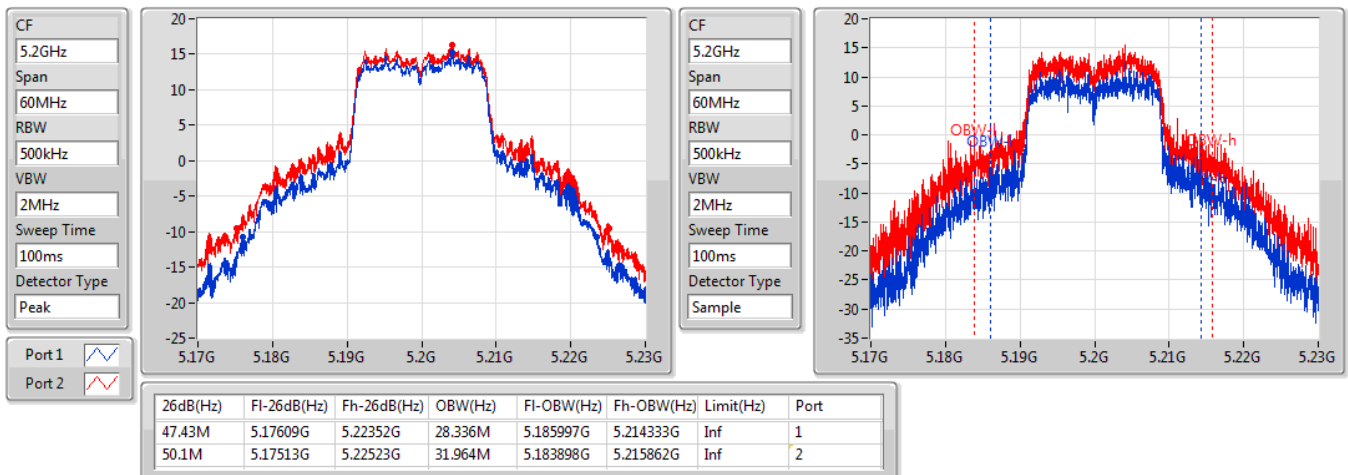


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

27/10/2019

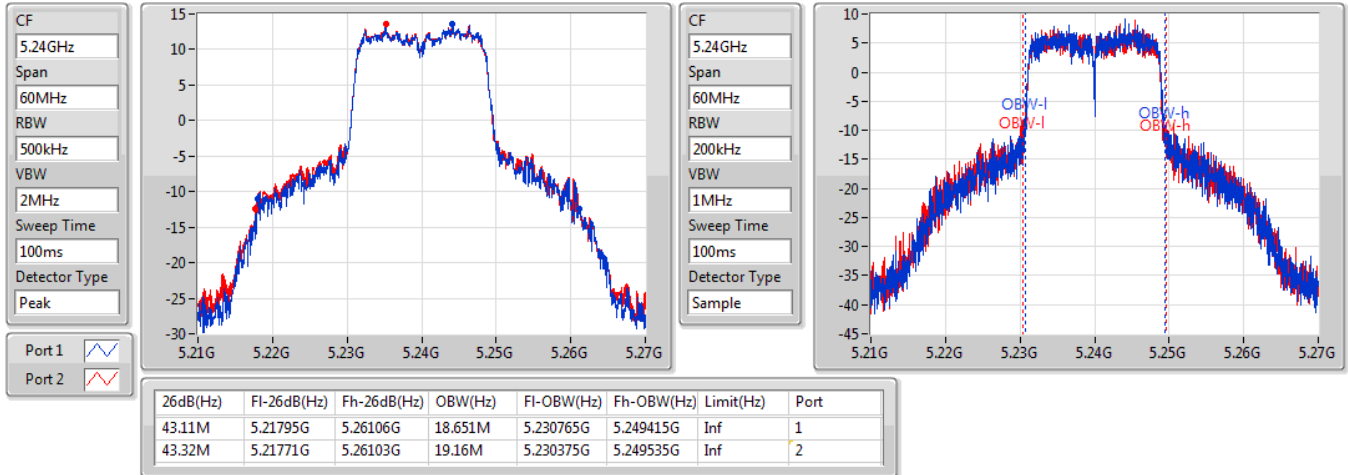

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

27/10/2019

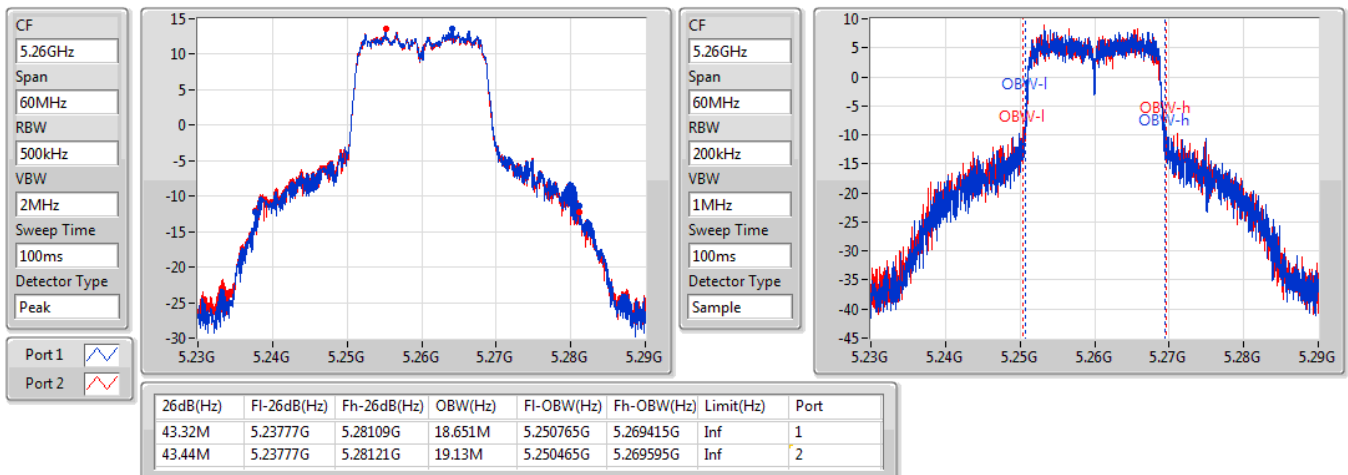


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5240MHz

27/10/2019

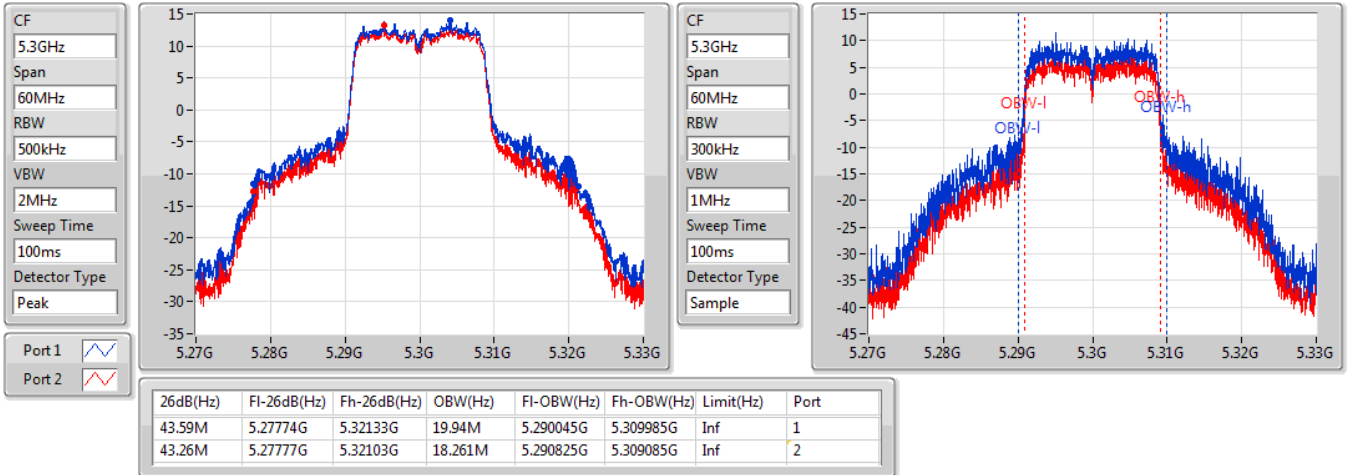

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5260MHz

27/10/2019

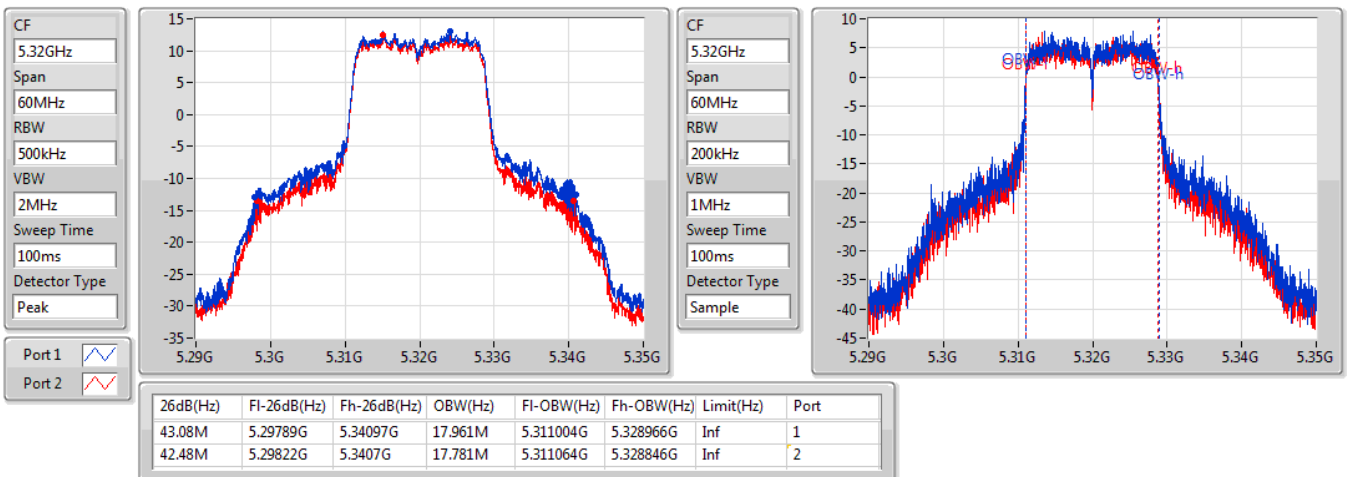


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5300MHz

27/10/2019

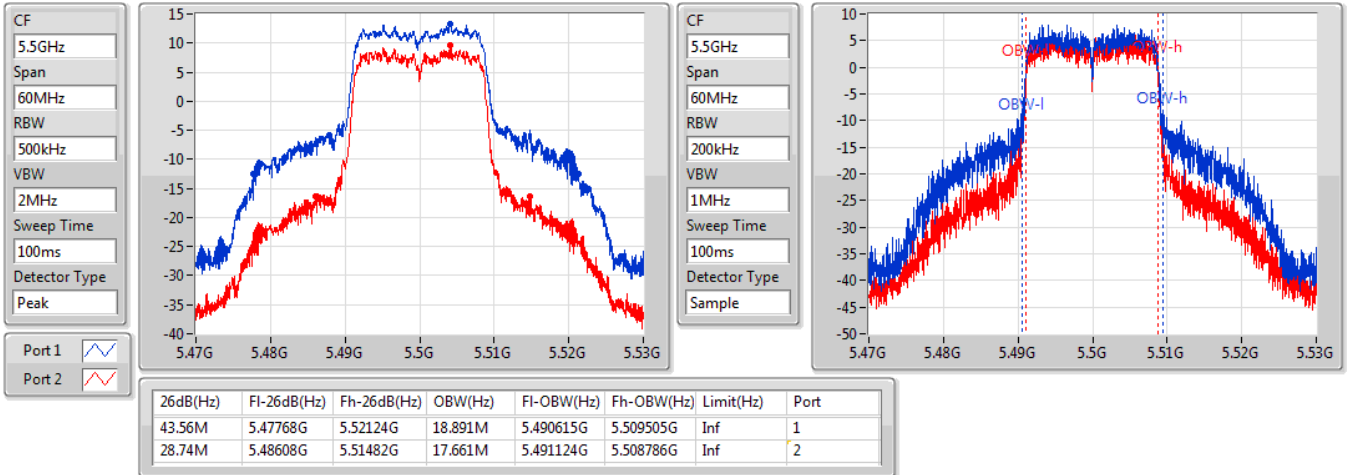

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5320MHz

27/10/2019

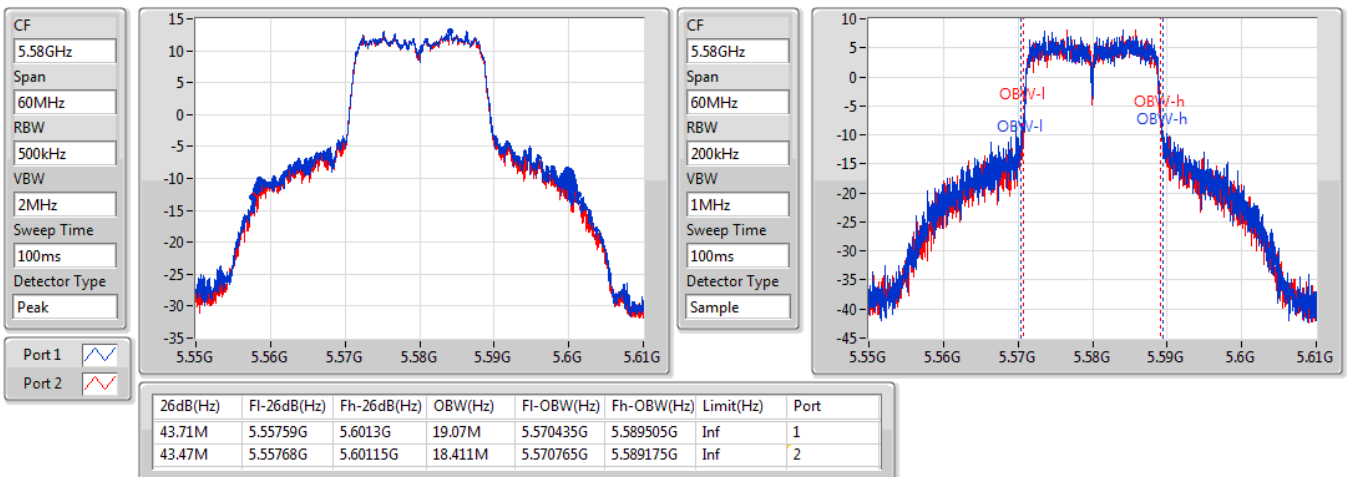


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5500MHz

27/10/2019

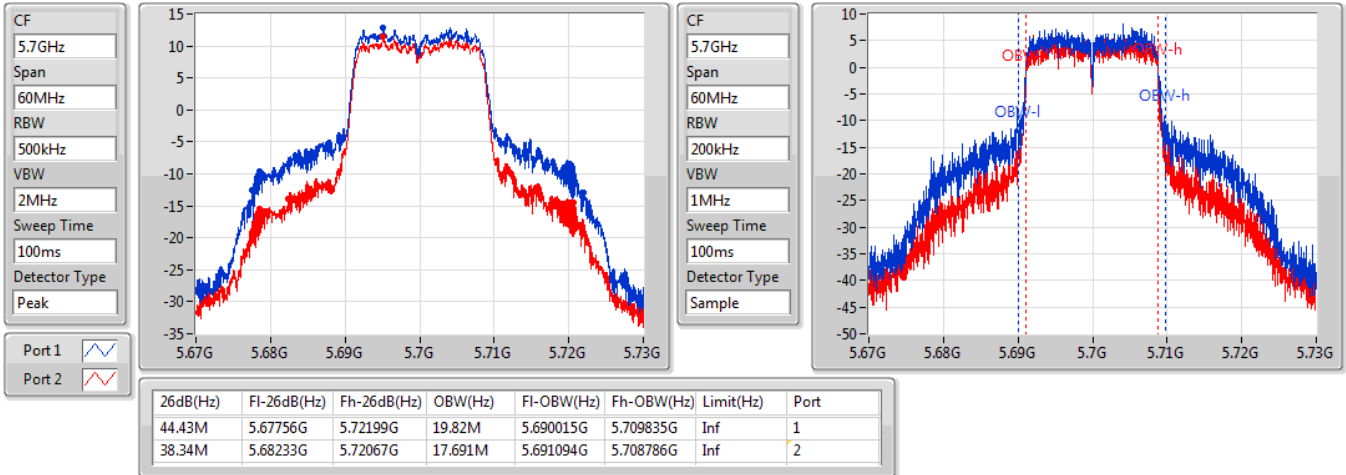

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5580MHz

27/10/2019

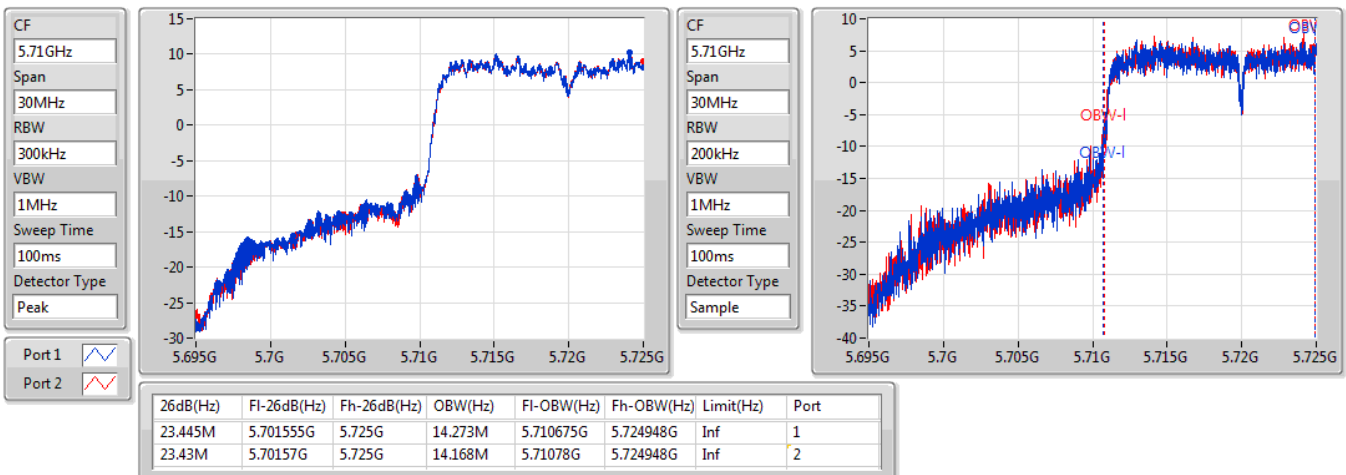


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5700MHz

27/10/2019

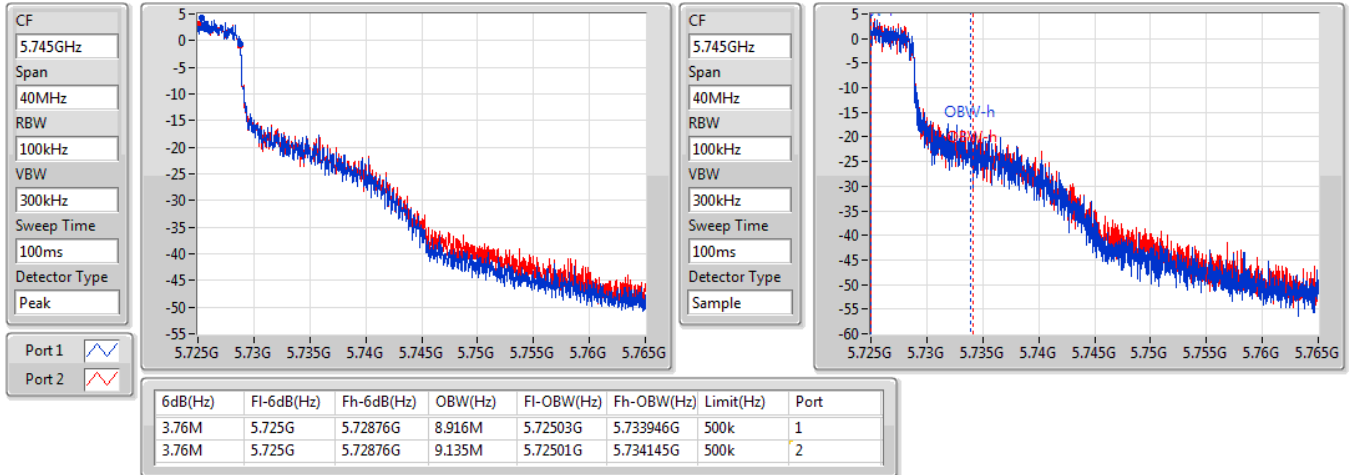

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

27/10/2019

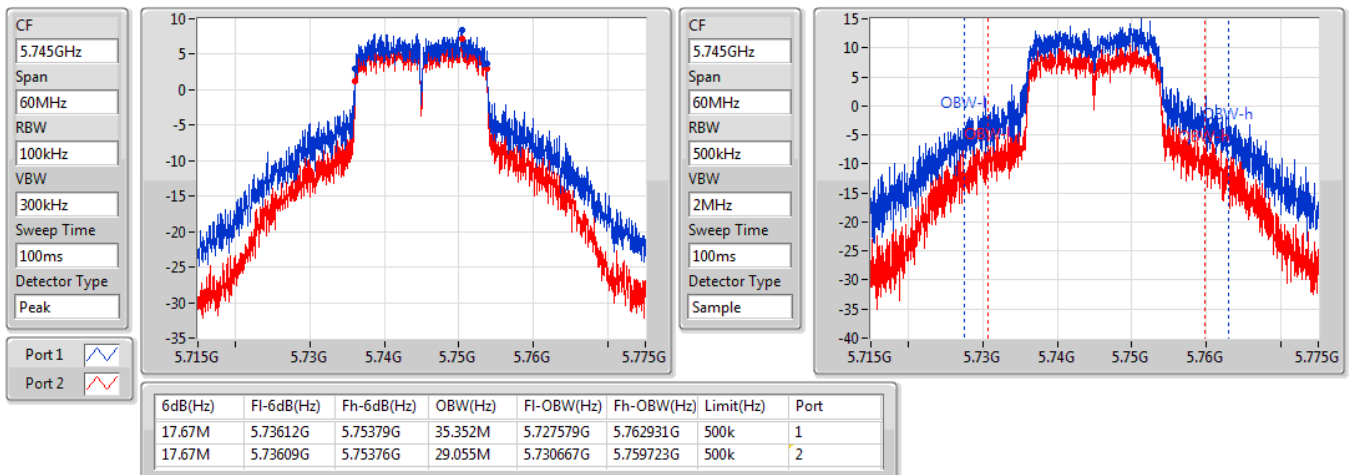


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/10/2019

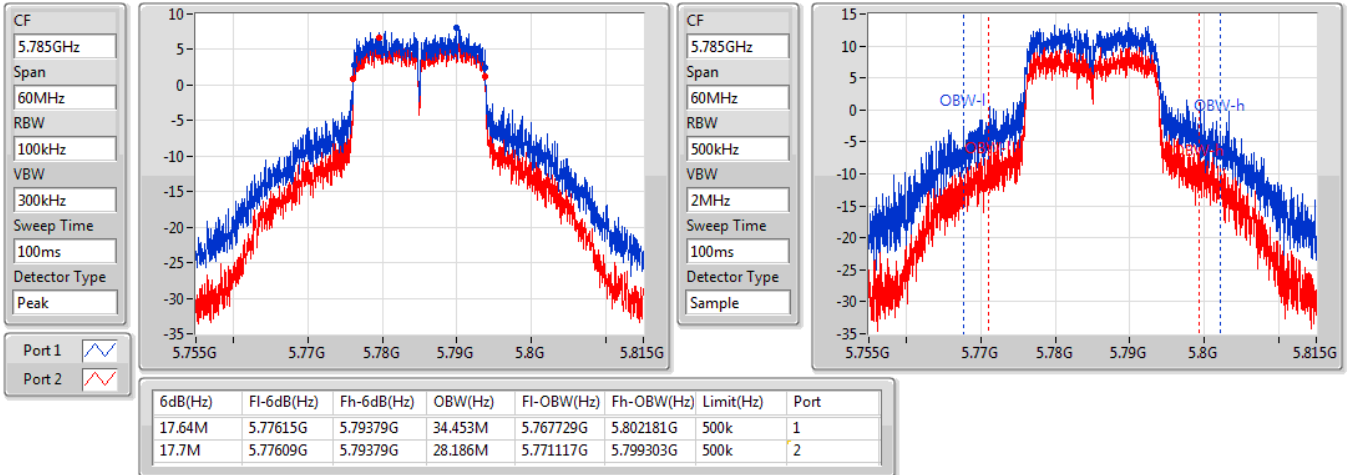

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

27/10/2019

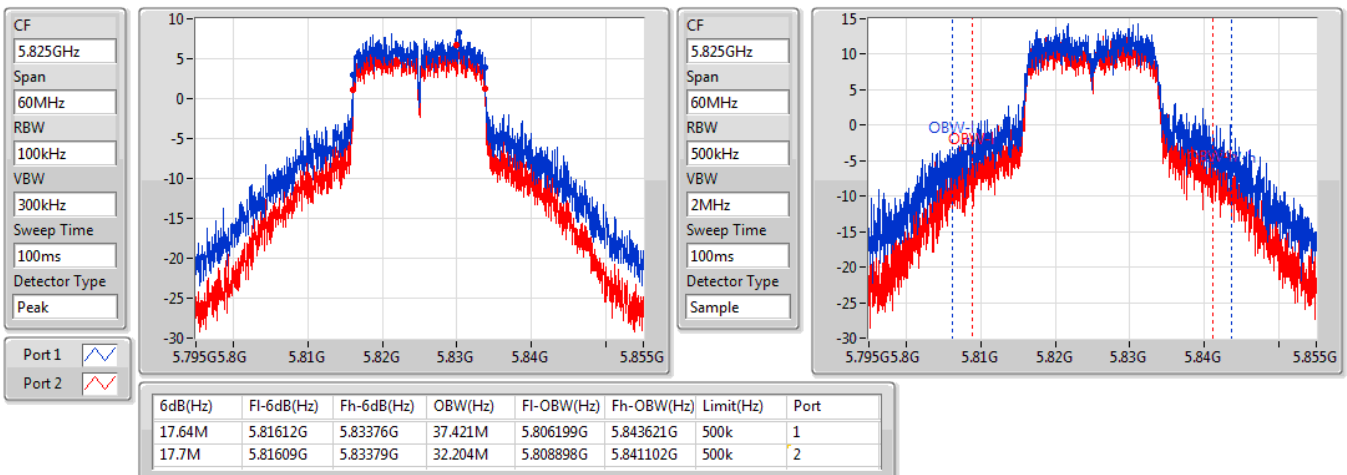


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

27/10/2019

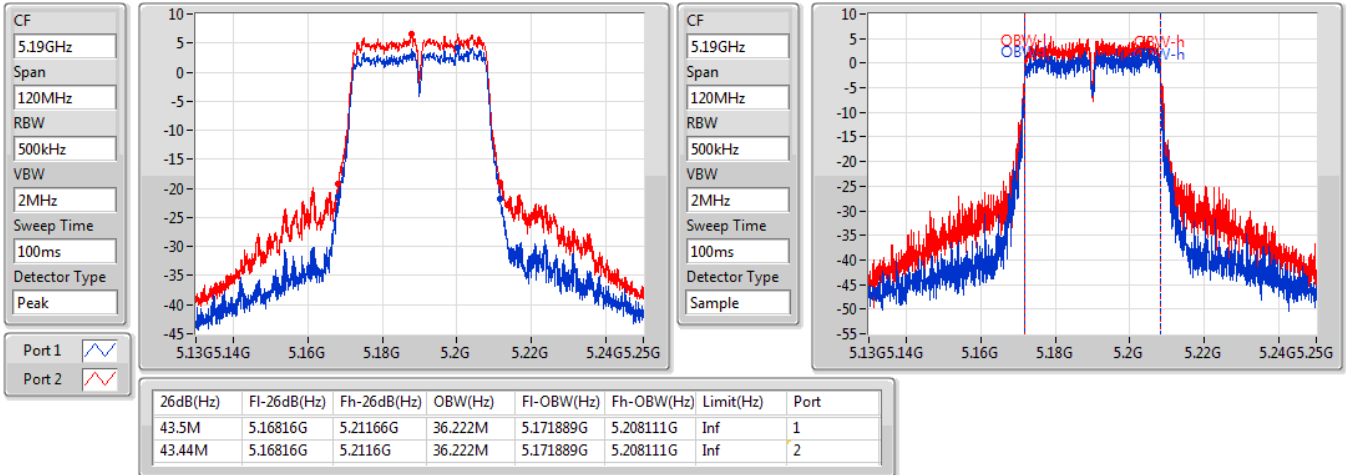

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

27/10/2019

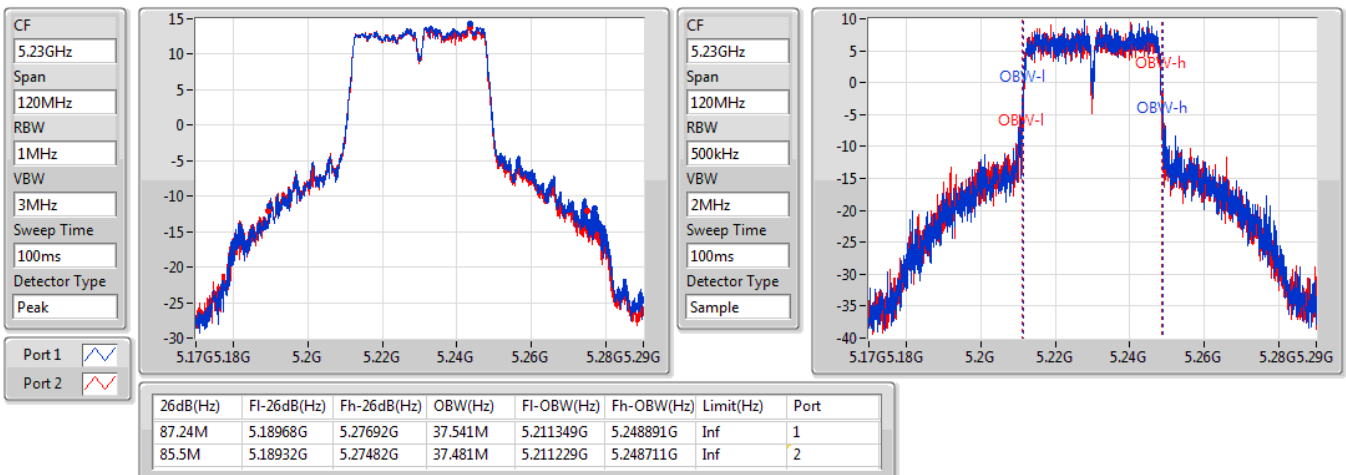


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

27/10/2019

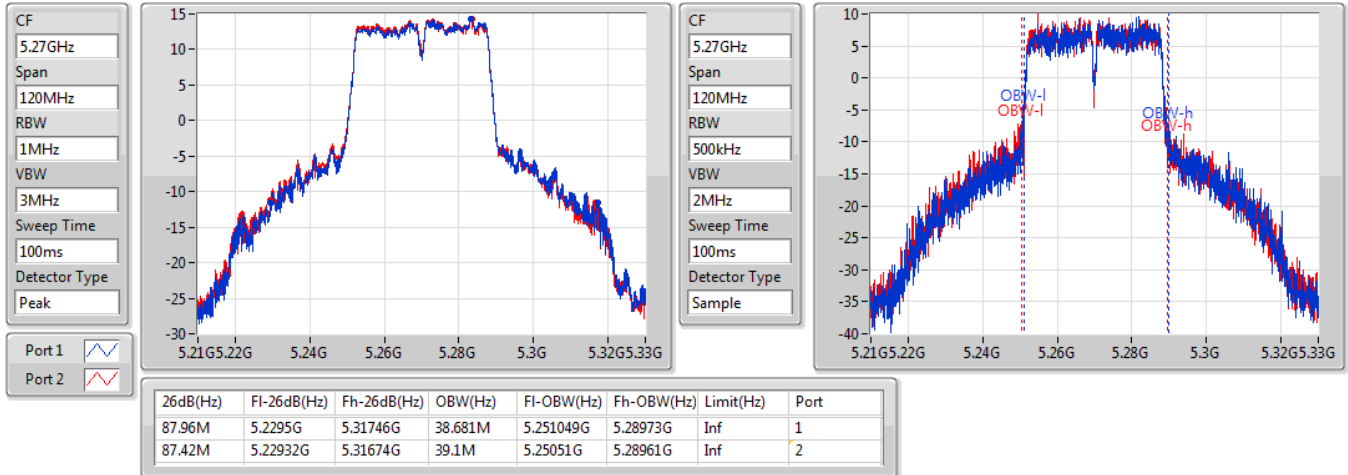

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

27/10/2019

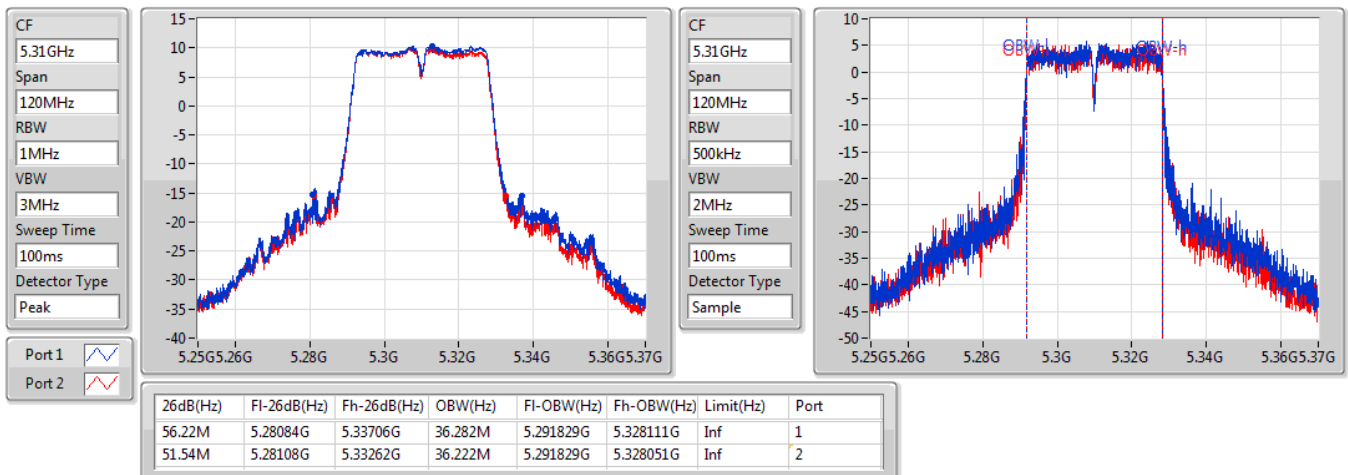


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5270MHz

27/10/2019

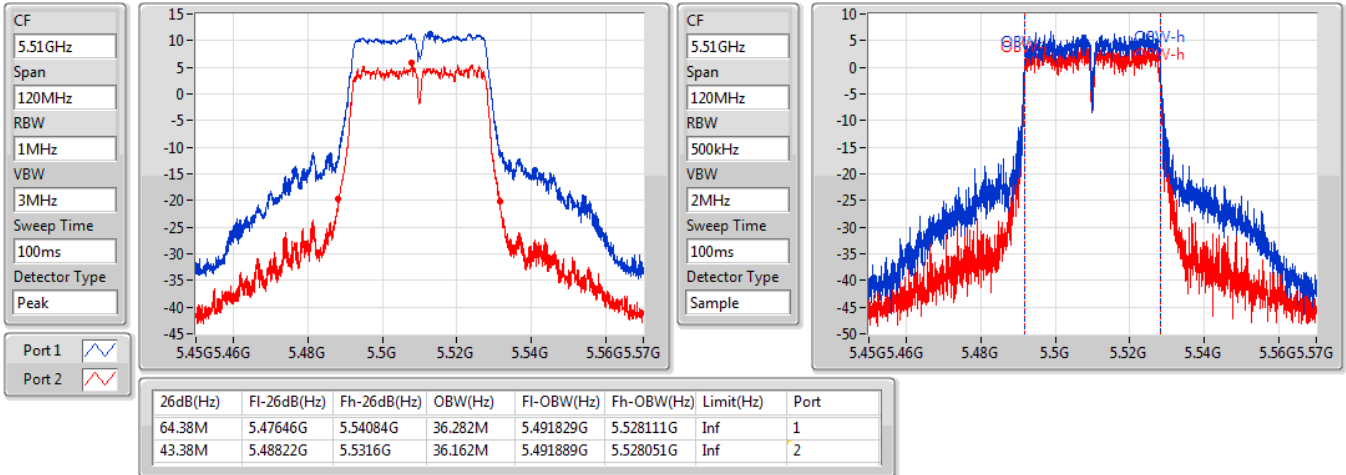

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5310MHz

27/10/2019

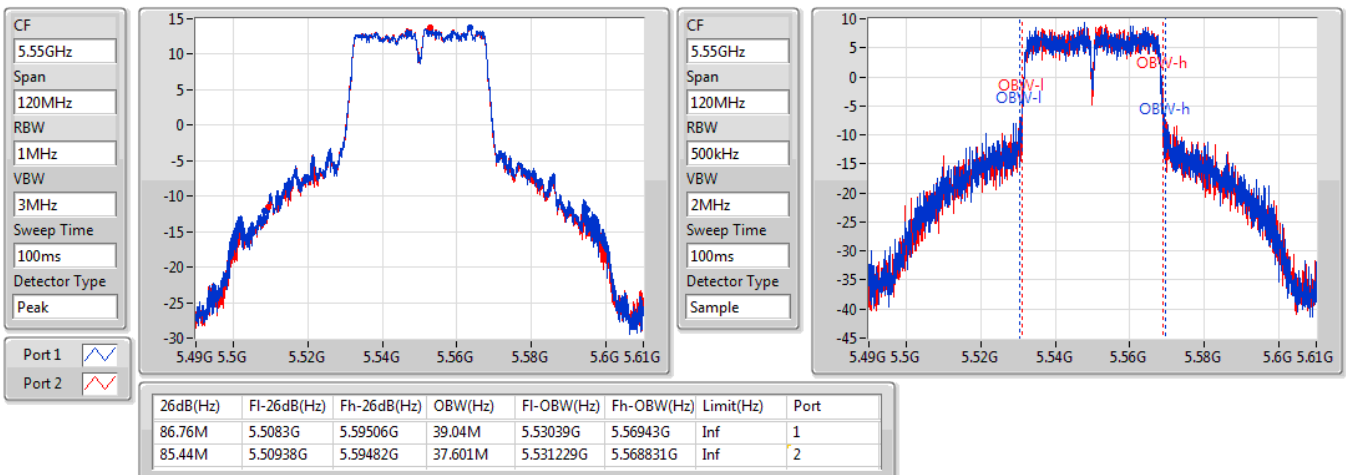


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5510MHz

27/10/2019

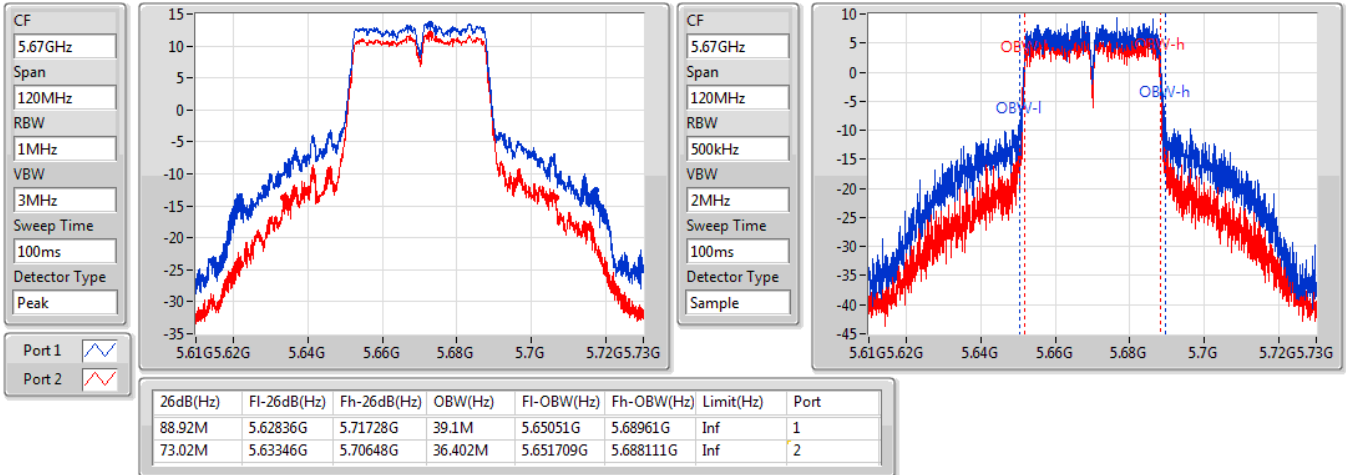

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5550MHz

27/10/2019

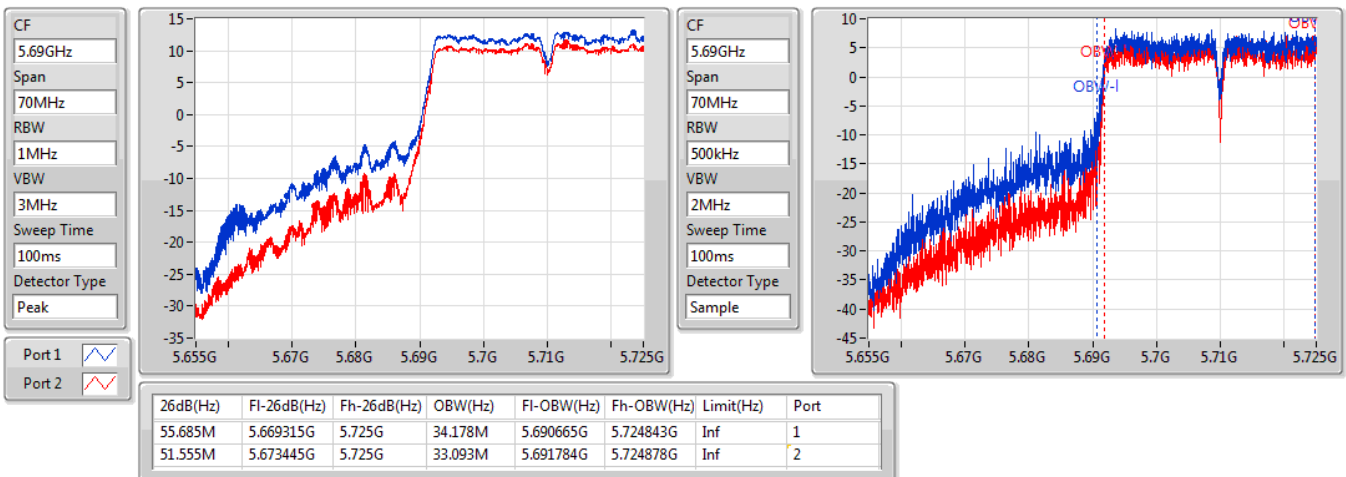


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5670MHz

27/10/2019

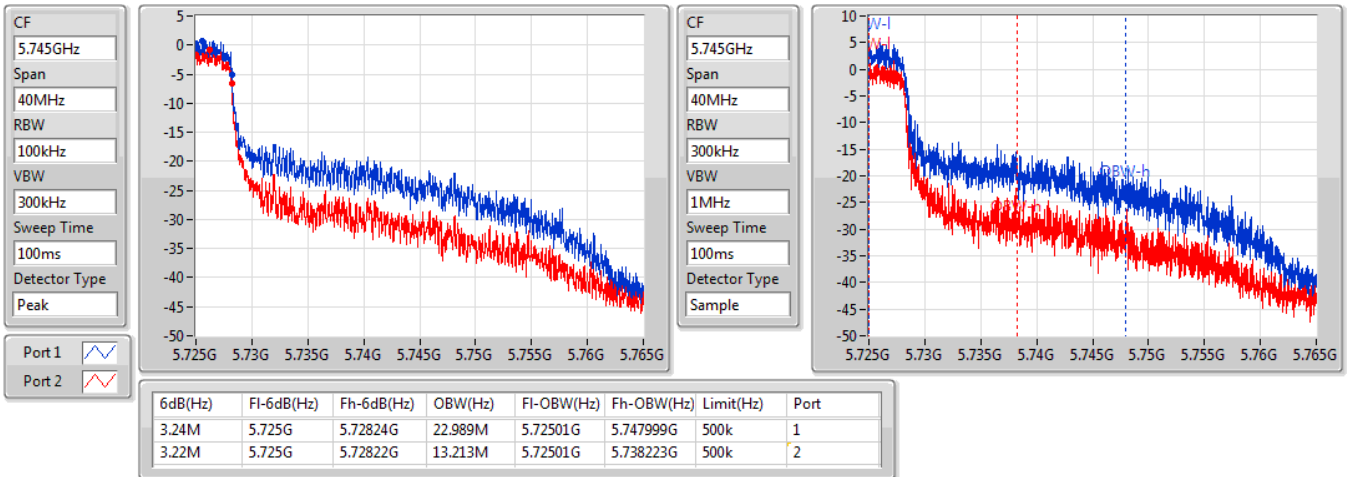

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

27/10/2019

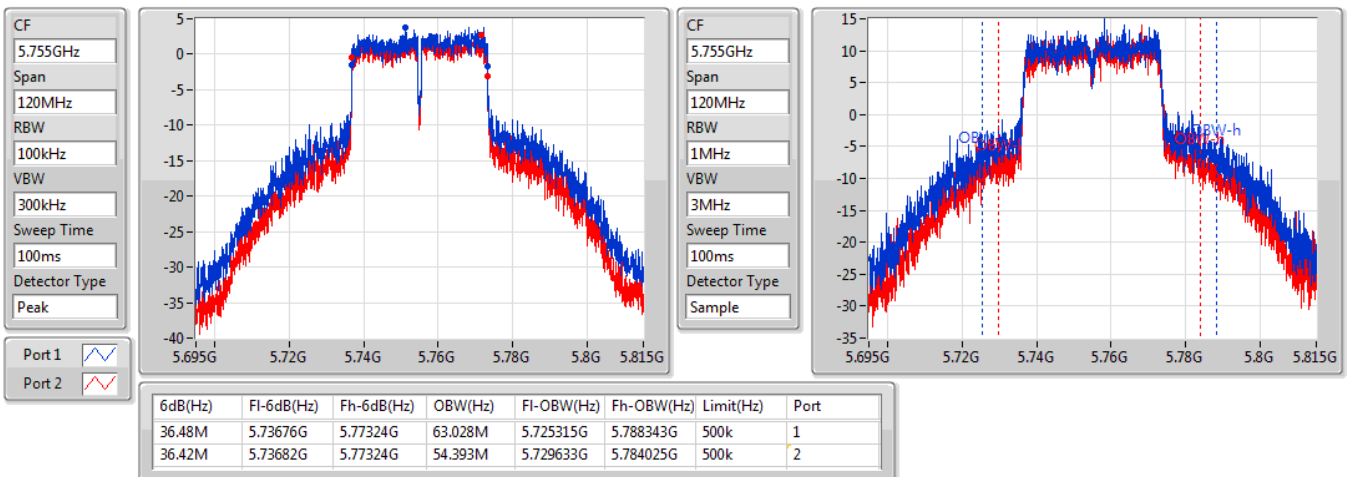


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

27/10/2019

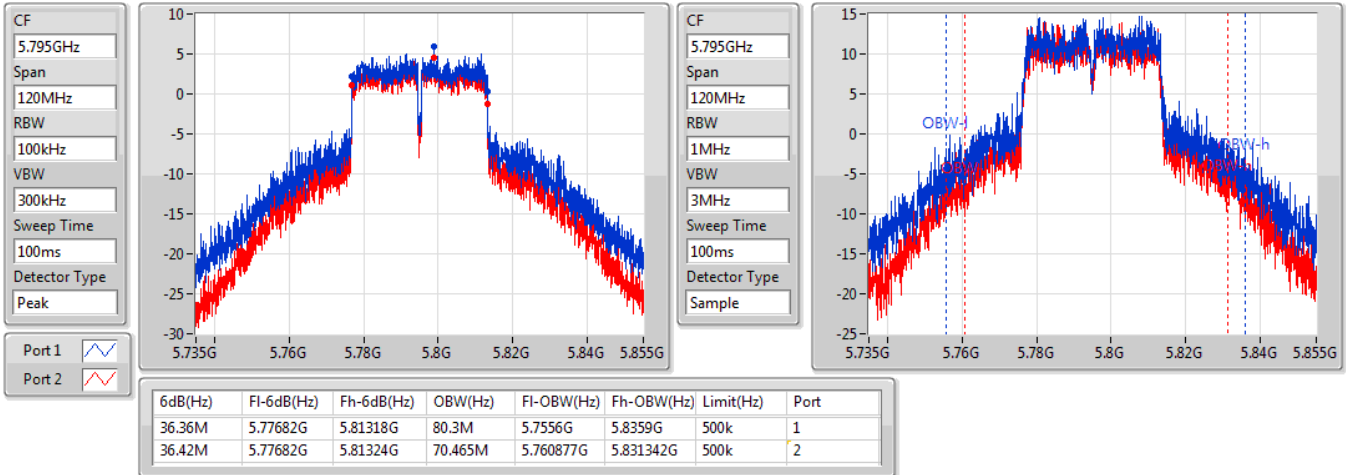

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

27/10/2019

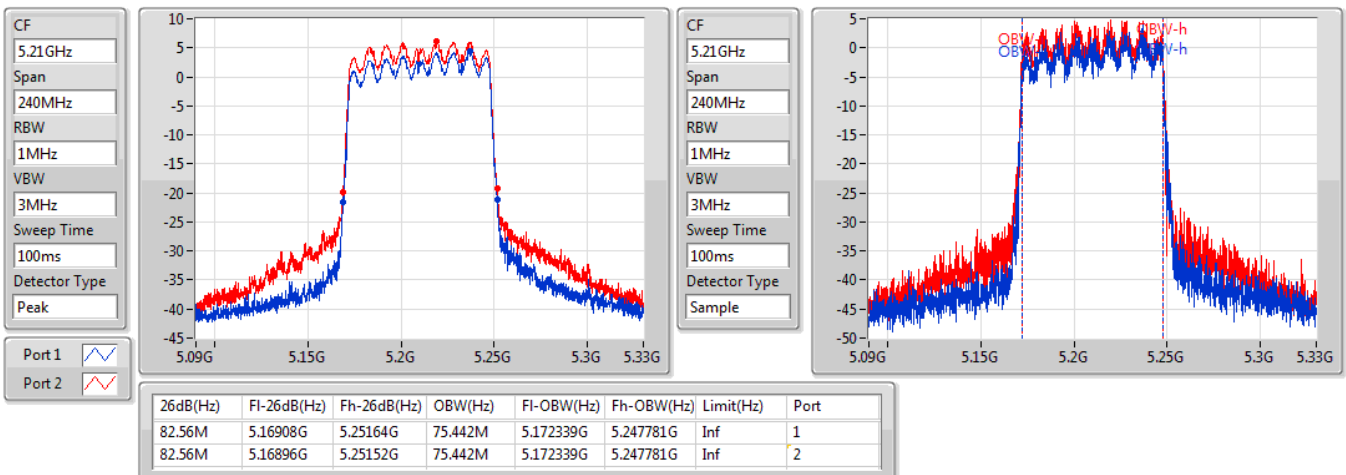


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

27/10/2019

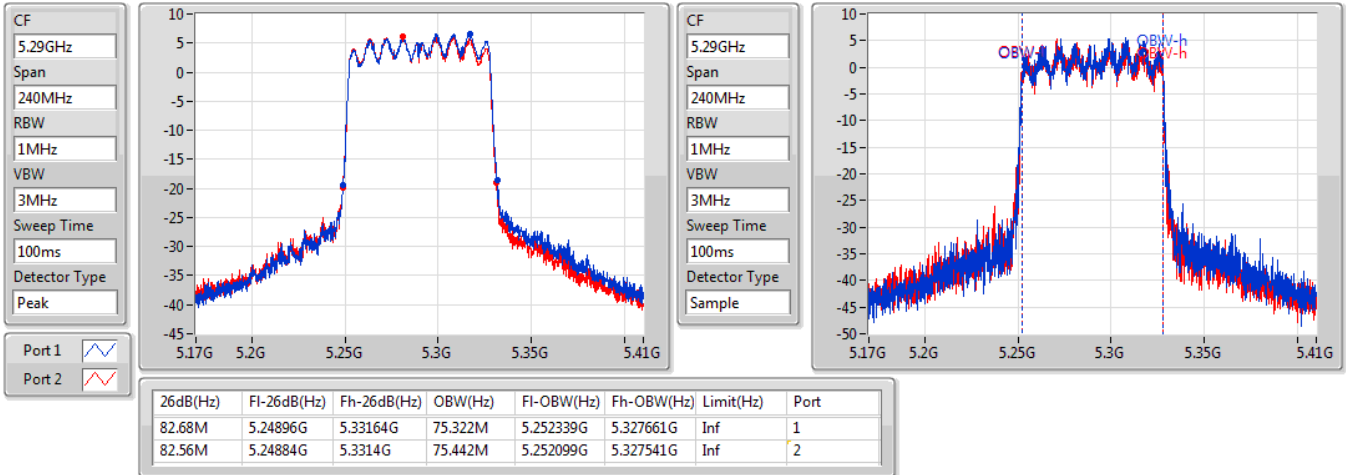

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5210MHz

27/10/2019

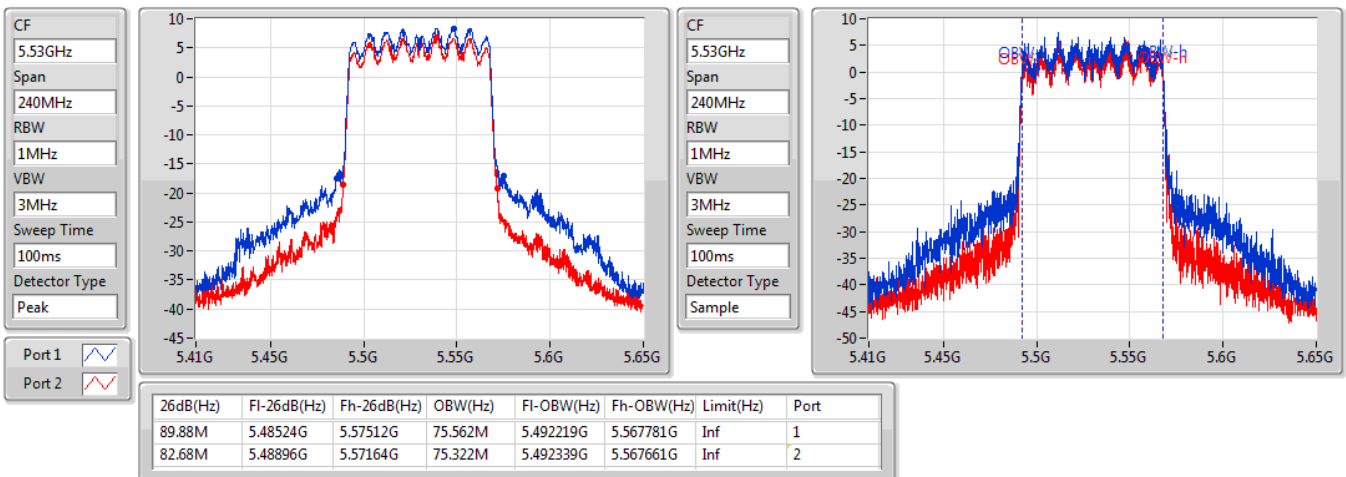


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5290MHz

27/10/2019

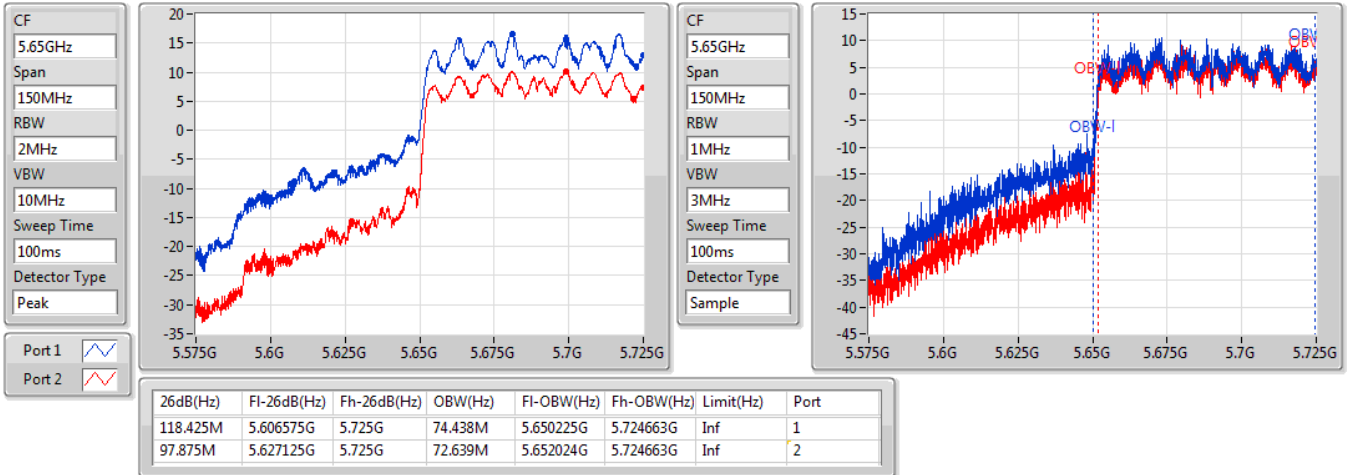

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5530MHz

27/10/2019

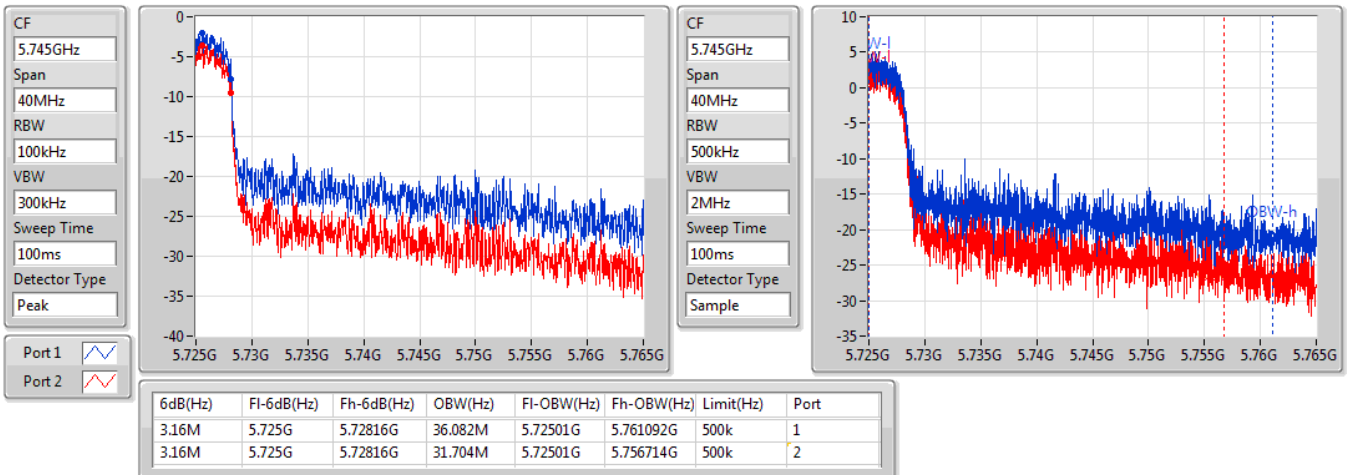


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

27/10/2019


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

27/10/2019

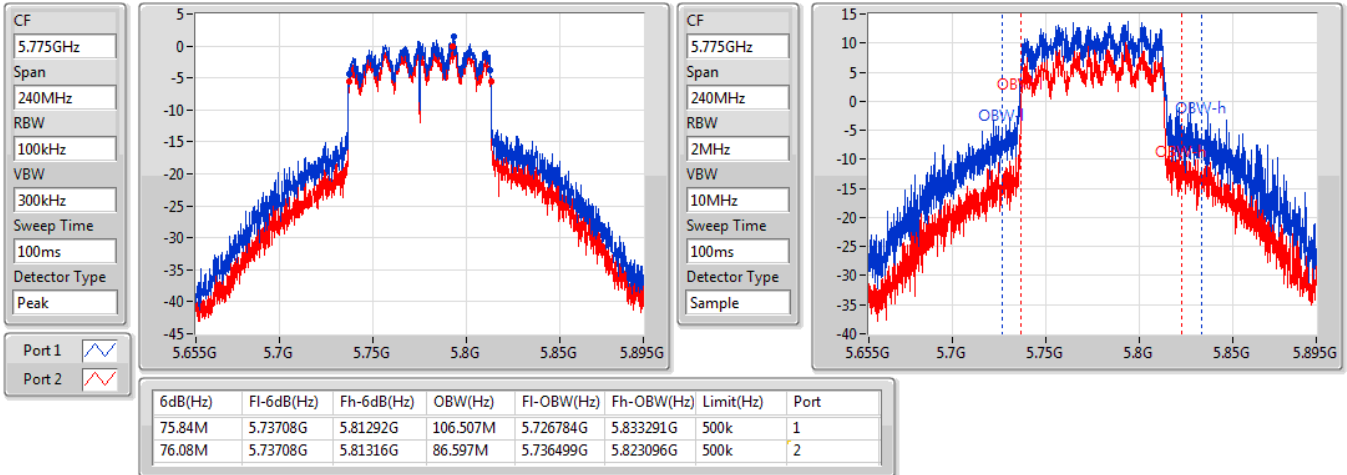


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

27/10/2019



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	57.84M	34.753M	34M8D1D	43.08M	17.901M
802.11ac VHT20_Nss1,(MCS0)_2TX	57.9M	35.112M	35M1D1D	42.72M	17.901M
802.11ac VHT40_Nss1,(MCS0)_2TX	87.24M	37.541M	37M5D1D	44.04M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.44M	75.322M	75M3D1D	82.32M	75.322M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	43.5M	19.67M	19M7D1D	43.08M	17.991M
802.11ac VHT20_Nss1,(MCS0)_2TX	43.59M	19.94M	19M9D1D	42.87M	17.931M
802.11ac VHT40_Nss1,(MCS0)_2TX	87.96M	39.1M	39M1D1D	51.54M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.44M	75.322M	75M3D1D	82.44M	75.202M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	44.49M	19.67M	19M7D1D	23.31M	13.988M
802.11ac VHT20_Nss1,(MCS0)_2TX	43.71M	19.07M	19M1D1D	21.15M	14.168M
802.11ac VHT40_Nss1,(MCS0)_2TX	88.92M	39.1M	39M1D1D	43.38M	33.093M
802.11ac VHT80_Nss1,(MCS0)_2TX	118.425M	75.562M	75M6D1D	82.44M	72.639M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	17.7M	39.82M	39M8D1D	3.76M	7.956M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.7M	39.79M	39M8D1D	3.76M	8.916M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.48M	71.544M	71M5D1D	3.22M	13.213M
802.11ac VHT80_Nss1,(MCS0)_2TX	76.08M	84.078M	84M1D1D	3.16M	31.704M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	43.08M	17.901M	44.64M	21.169M
5200MHz	Pass	Inf	51.84M	32.834M	57.84M	34.753M
5240MHz	Pass	Inf	43.2M	18.231M	43.17M	19.01M
5260MHz	Pass	Inf	43.23M	18.051M	43.08M	17.991M
5300MHz	Pass	Inf	43.35M	18.381M	43.11M	17.991M
5320MHz	Pass	Inf	43.5M	19.67M	43.29M	18.231M
5500MHz	Pass	Inf	43.56M	19.13M	42.6M	17.811M
5580MHz	Pass	Inf	43.71M	19.58M	43.38M	18.051M
5700MHz	Pass	Inf	44.49M	19.67M	42.72M	17.781M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	26.52M	14.363M	23.31M	13.988M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	9.075M	3.76M	7.956M
5745MHz	Pass	500k	17.67M	39.82M	17.67M	35.442M
5785MHz	Pass	500k	17.64M	29.865M	17.58M	20.72M
5825MHz	Pass	500k	17.7M	23.448M	17.58M	17.721M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	42.72M	17.901M	43.59M	20.48M
5200MHz	Pass	Inf	53.94M	33.043M	57.9M	35.112M
5240MHz	Pass	Inf	43.11M	18.651M	43.32M	19.16M
5260MHz	Pass	Inf	43.32M	18.651M	43.44M	19.13M
5300MHz	Pass	Inf	43.59M	19.94M	43.26M	18.261M
5320MHz	Pass	Inf	43.35M	18.231M	42.87M	17.931M
5500MHz	Pass	Inf	35.37M	17.751M	21.42M	17.601M
5580MHz	Pass	Inf	43.71M	19.07M	43.47M	18.411M
5700MHz	Pass	Inf	21.93M	17.631M	21.15M	17.571M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	23.445M	14.273M	23.43M	14.168M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.76M	8.916M	3.76M	9.135M
5745MHz	Pass	500k	17.67M	39.79M	17.67M	36.042M
5785MHz	Pass	500k	17.7M	38.261M	17.7M	33.133M
5825MHz	Pass	500k	17.67M	26.477M	17.58M	17.961M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	44.04M	36.222M	69.6M	36.342M
5230MHz	Pass	Inf	87.24M	37.541M	85.5M	37.481M
5270MHz	Pass	Inf	87.96M	38.681M	87.42M	39.1M
5310MHz	Pass	Inf	56.22M	36.282M	51.54M	36.222M
5510MHz	Pass	Inf	64.38M	36.282M	43.38M	36.162M
5550MHz	Pass	Inf	86.76M	39.04M	85.44M	37.601M
5670MHz	Pass	Inf	88.92M	39.1M	73.02M	36.402M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	55.685M	34.178M	51.555M	33.093M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.24M	22.989M	3.22M	13.213M
5755MHz	Pass	500k	36.48M	63.028M	36.42M	54.393M
5795MHz	Pass	500k	36.42M	71.544M	36.36M	58.171M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	82.32M	75.322M	82.44M	75.322M

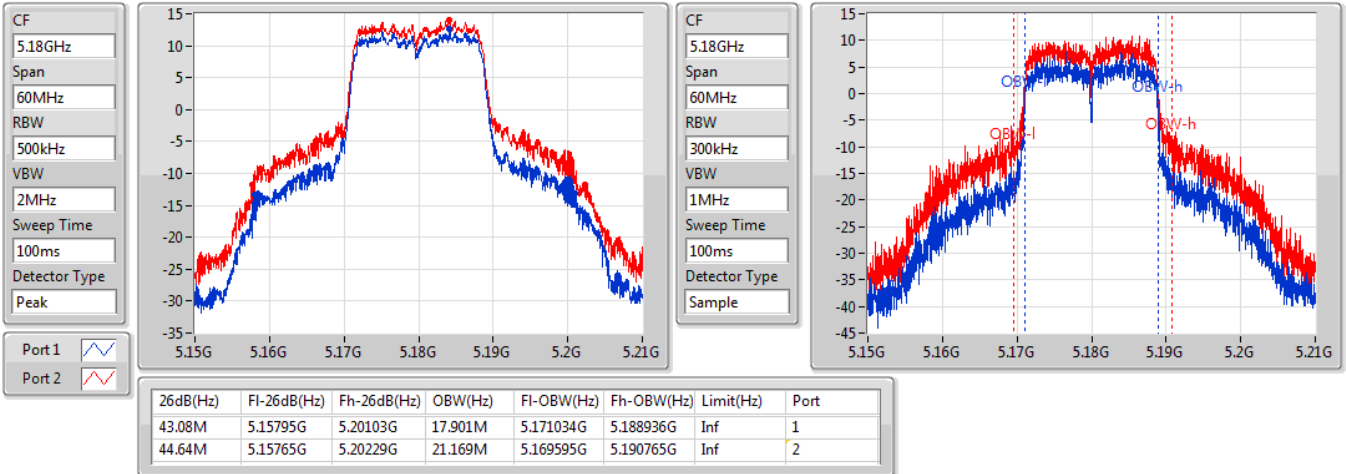
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5290MHz	Pass	Inf	82.44M	75.322M	82.44M	75.202M
5530MHz	Pass	Inf	82.8M	75.322M	82.44M	75.562M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	118.425M	74.438M	97.875M	72.639M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	36.082M	3.16M	31.704M
5775MHz	Pass	500k	75.96M	84.078M	76.08M	75.682M

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

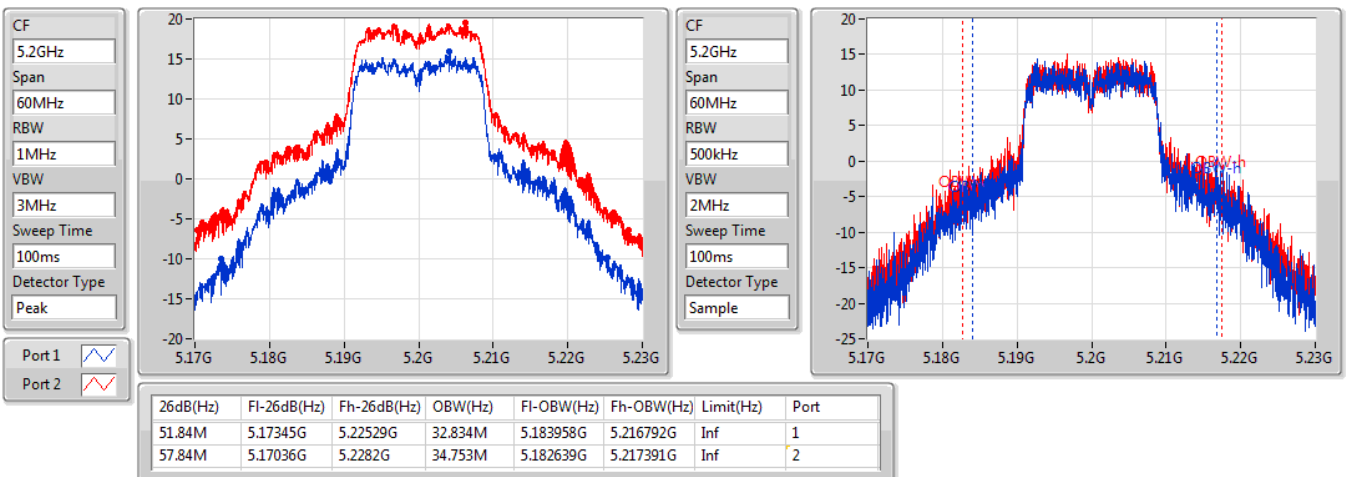
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

26/10/2019

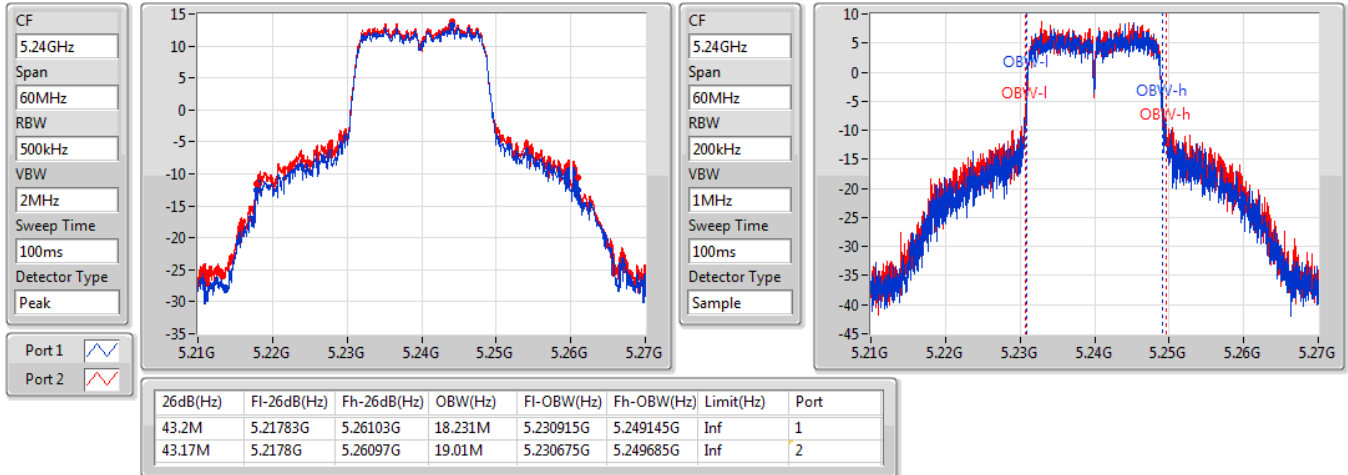

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

26/10/2019

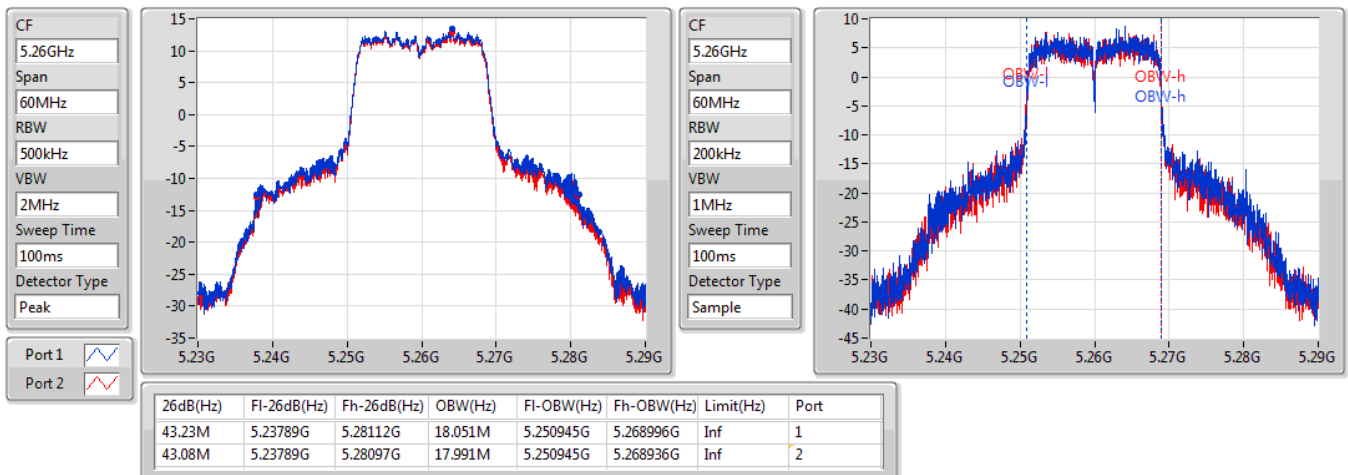


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

26/10/2019


802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

26/10/2019

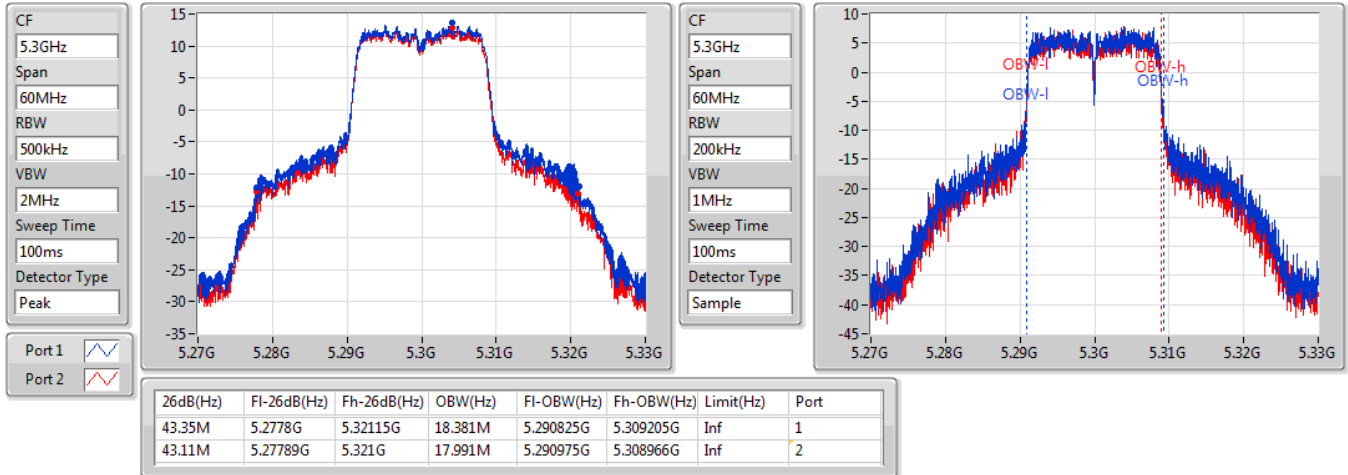


802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

26/10/2019

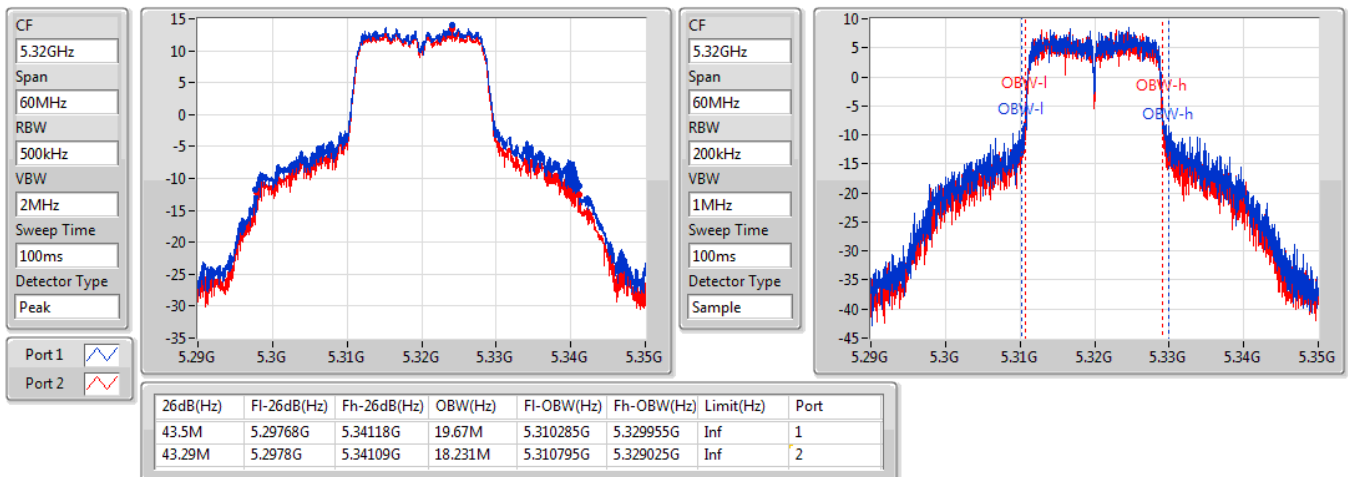


802.11a_Nss1,(6Mbps)_2TX

EBW

5320MHz

26/10/2019

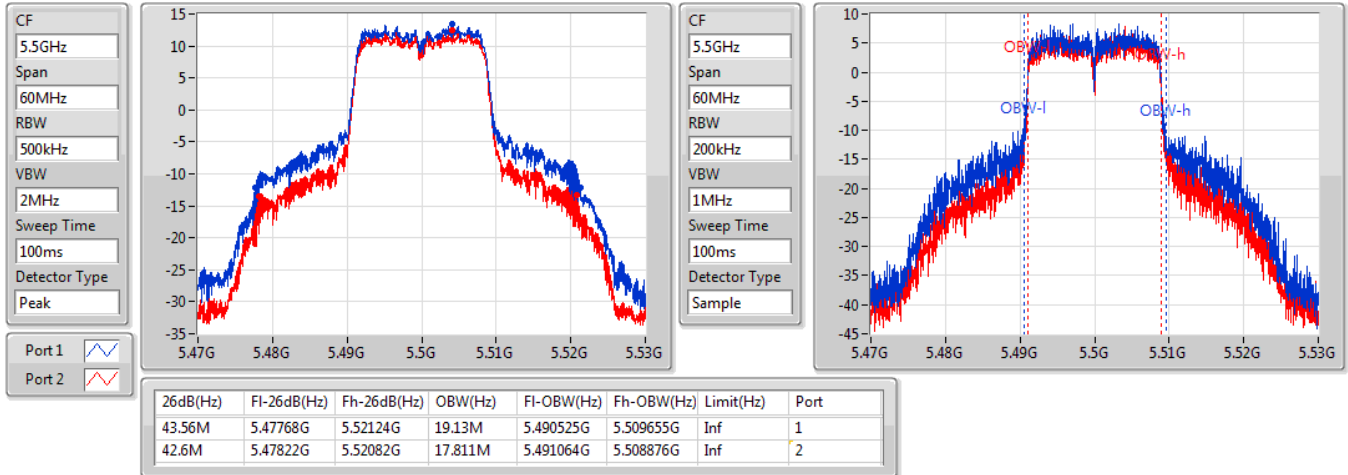


802.11a_Nss1,(6Mbps)_2TX

EBW

5500MHz

26/10/2019

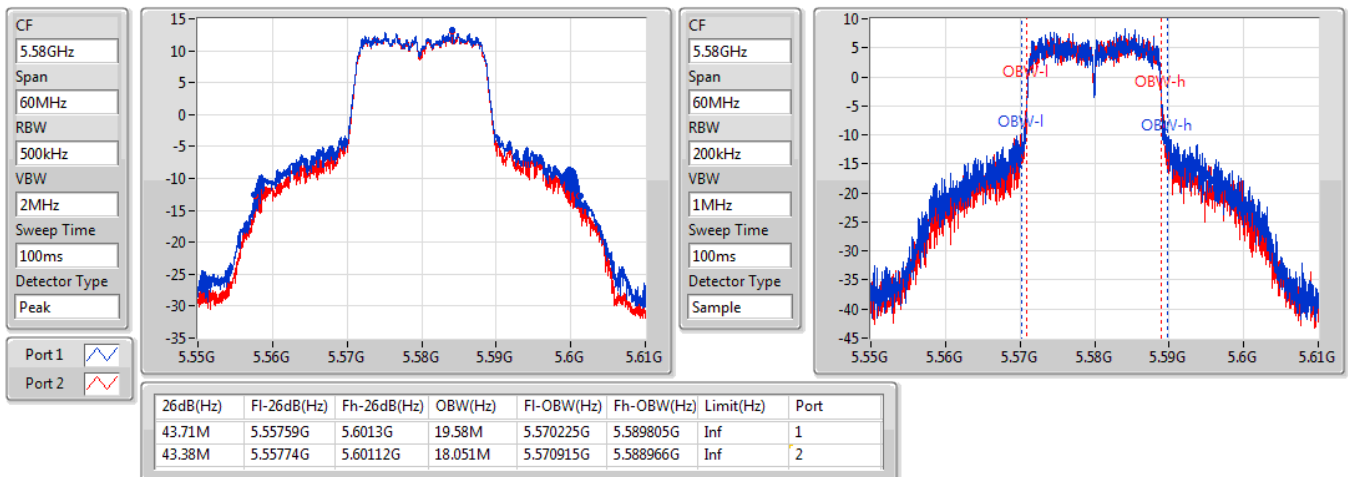


802.11a_Nss1,(6Mbps)_2TX

EBW

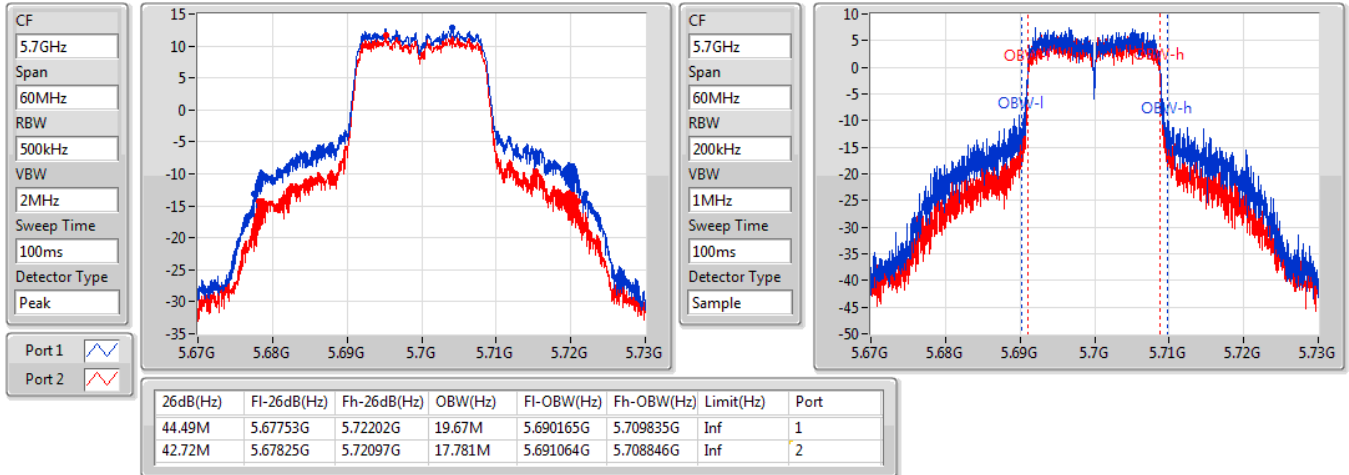
5580MHz

27/10/2019

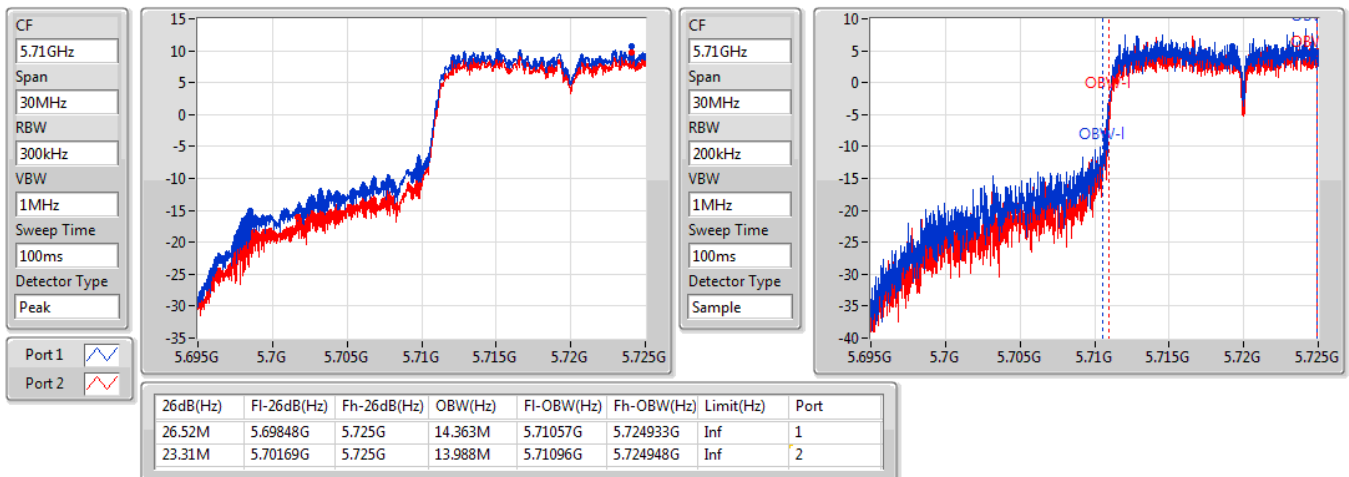


802.11a_Nss1,(6Mbps)_2TX
EBW
5700MHz

27/10/2019

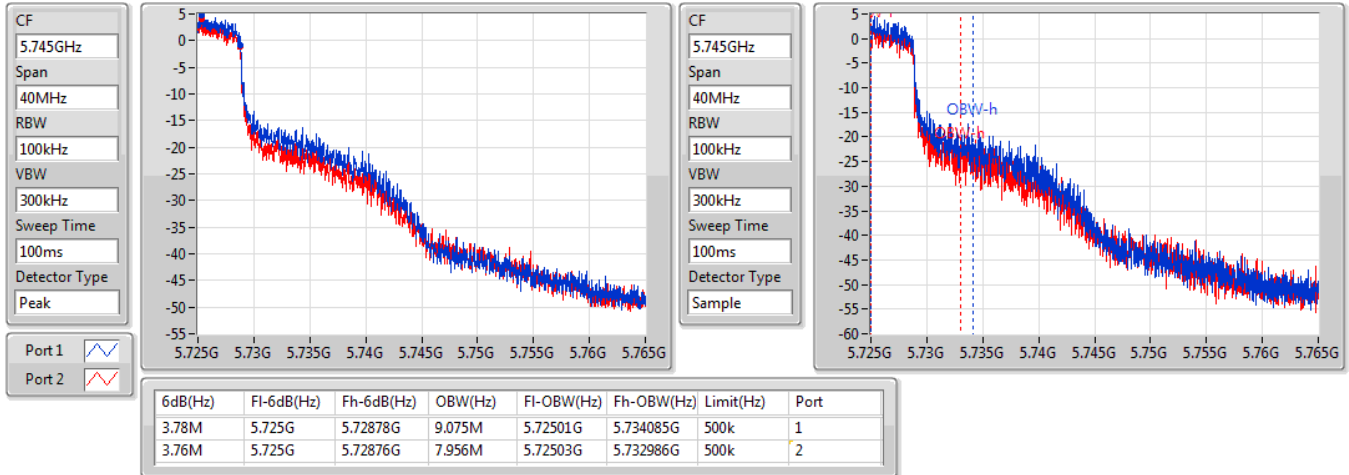

802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

27/10/2019

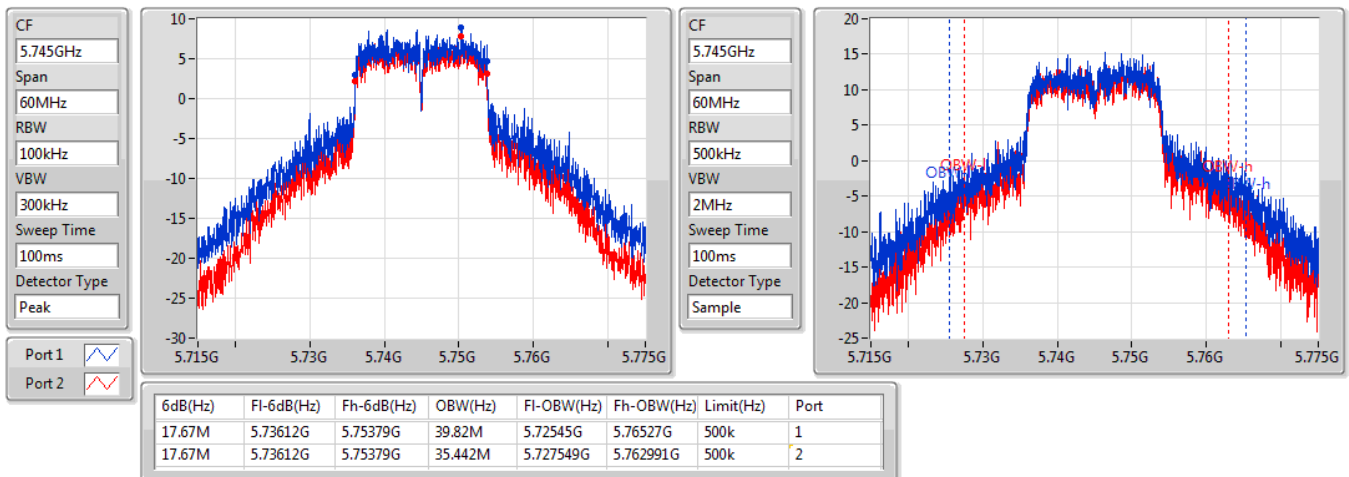


802.11a_Nss1,(6Mbps)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/10/2019


802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

27/10/2019

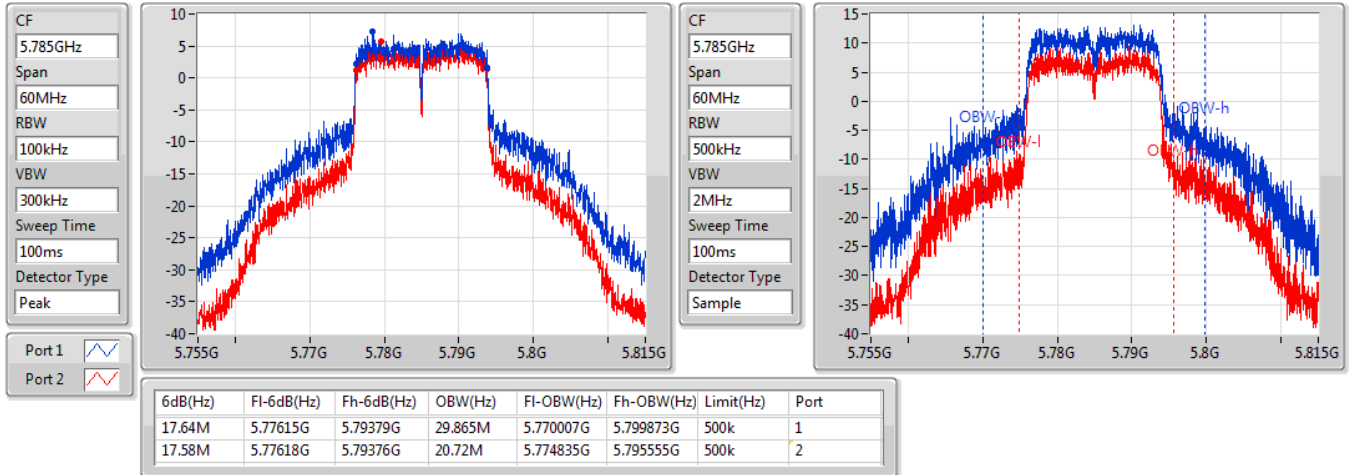


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

27/10/2019

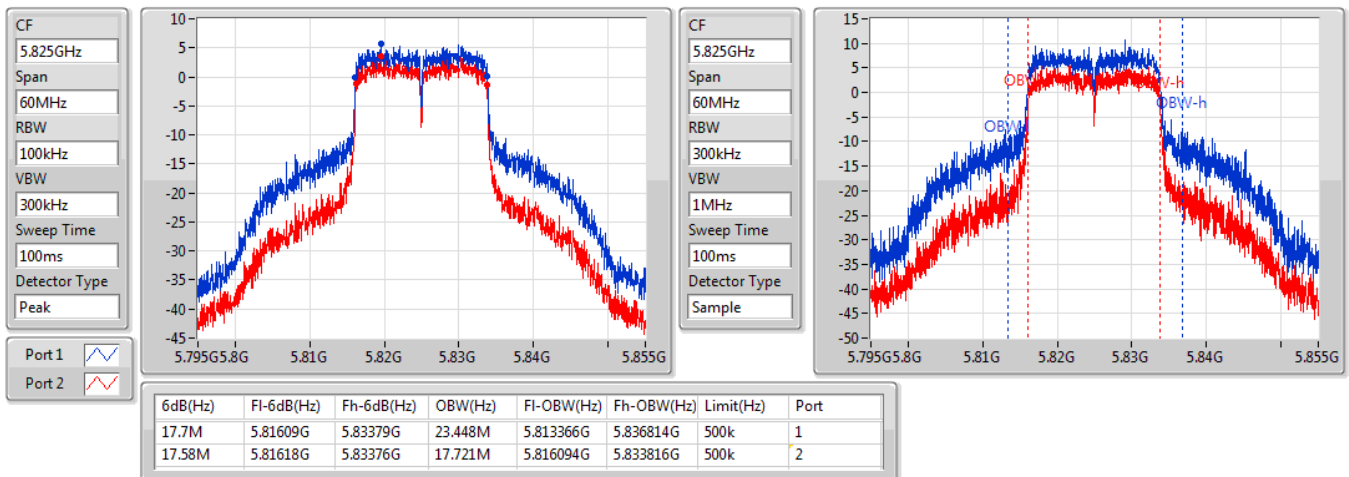


802.11a_Nss1,(6Mbps)_2TX

EBW

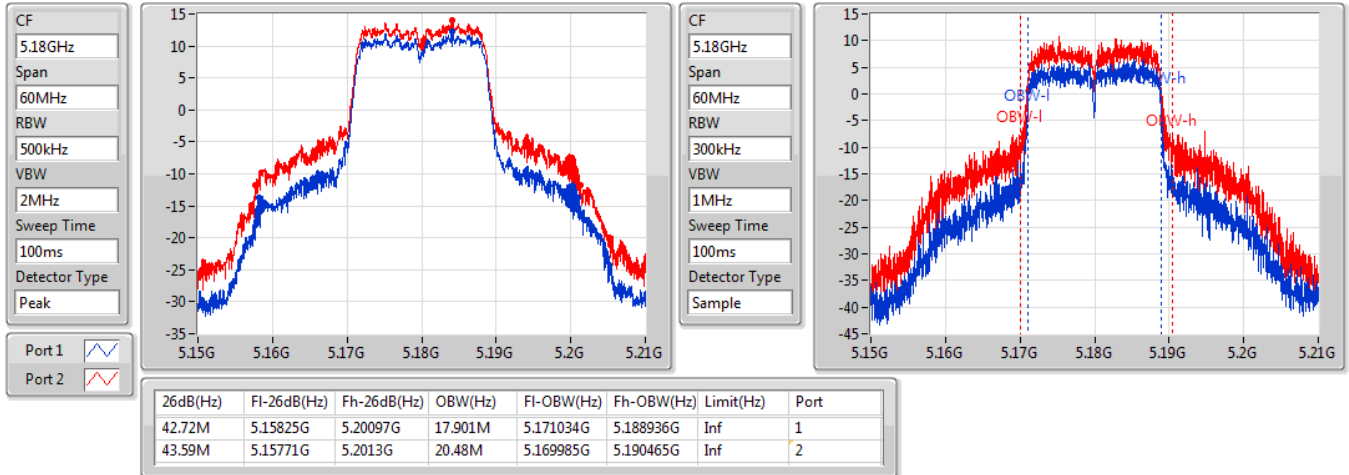
5825MHz

27/10/2019

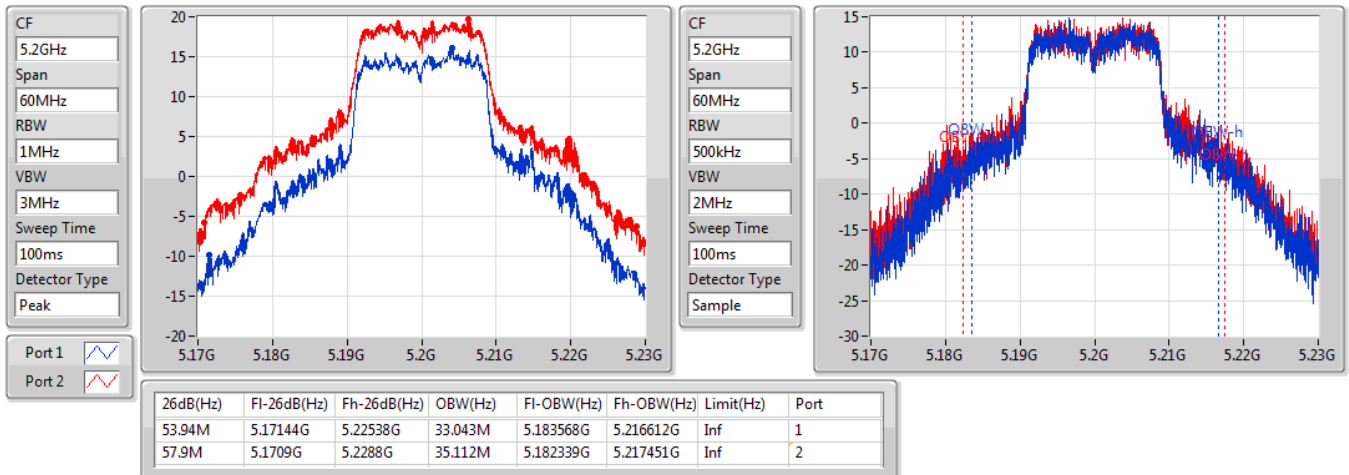


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

27/10/2019

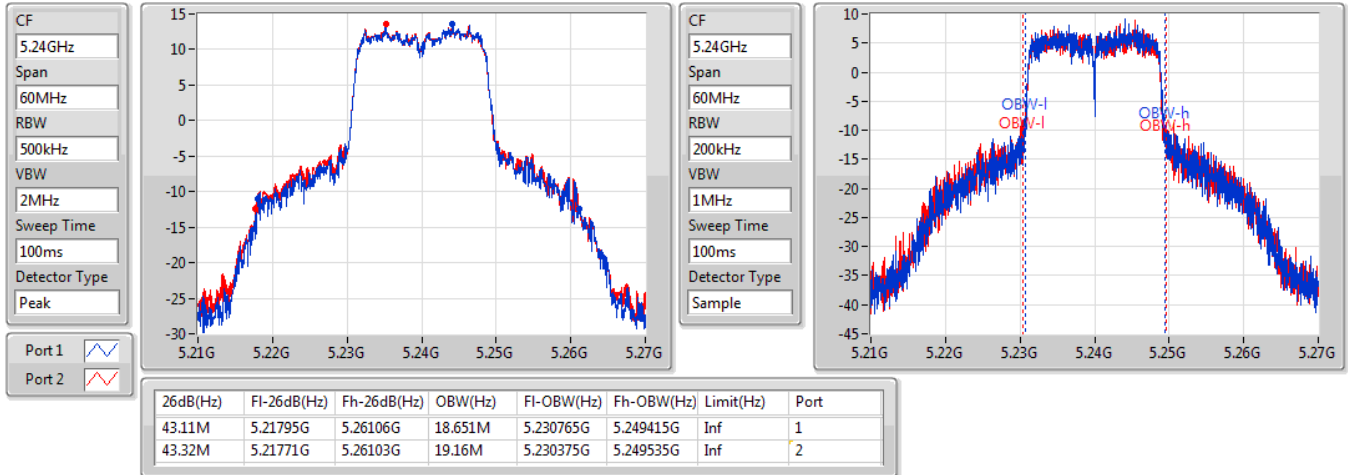

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

27/10/2019

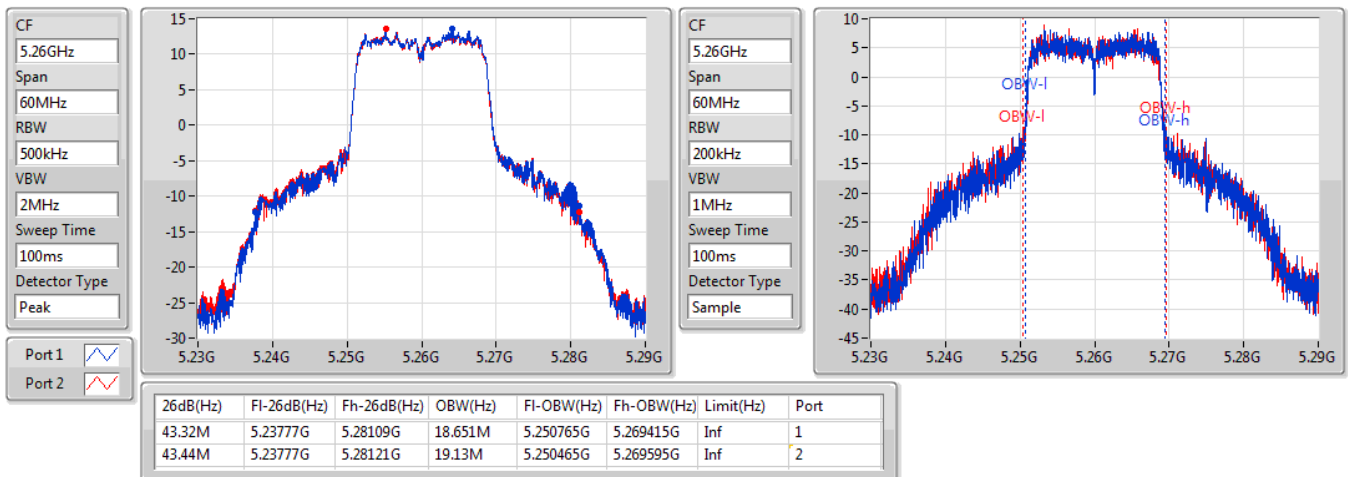


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5240MHz

27/10/2019

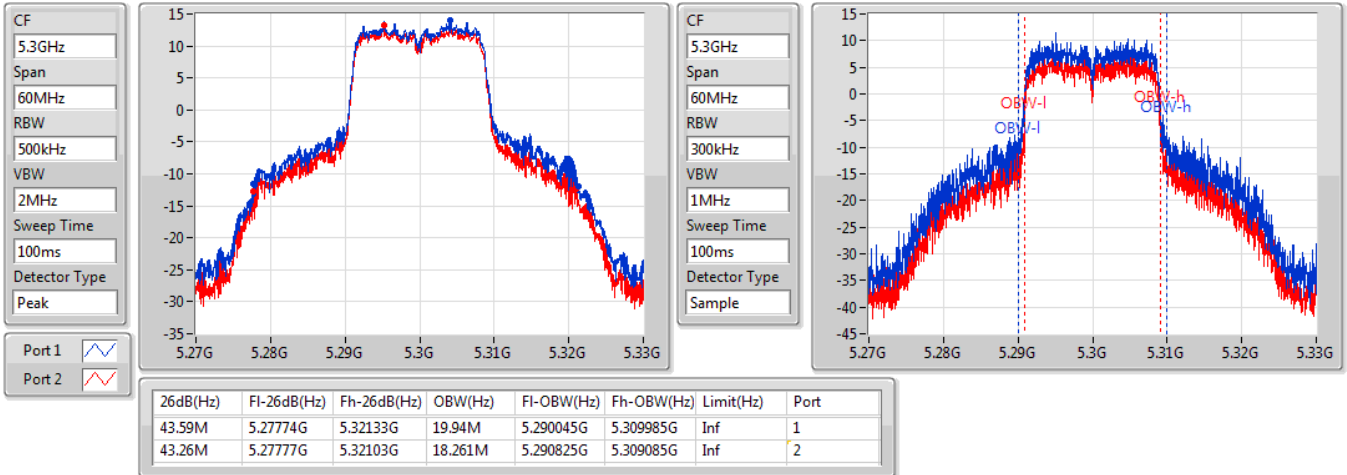

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5260MHz

27/10/2019

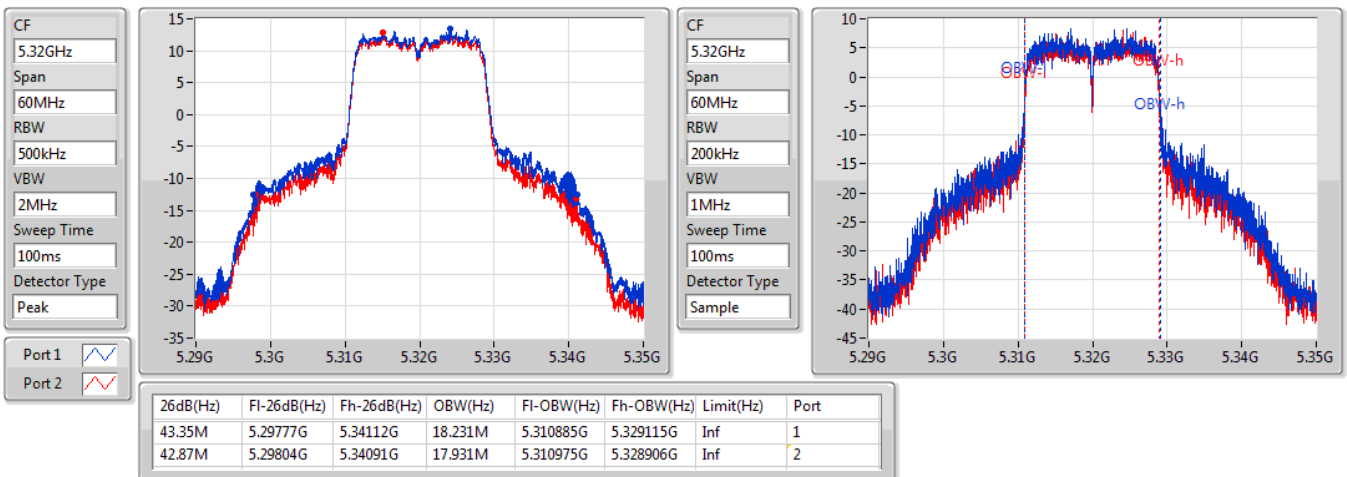


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5300MHz

27/10/2019

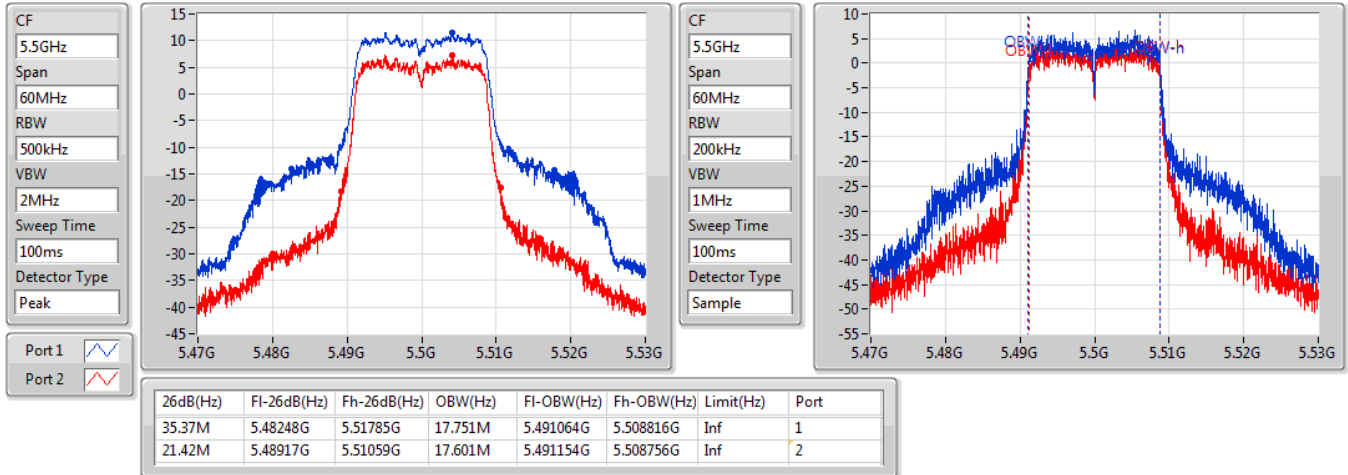

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5320MHz

27/10/2019

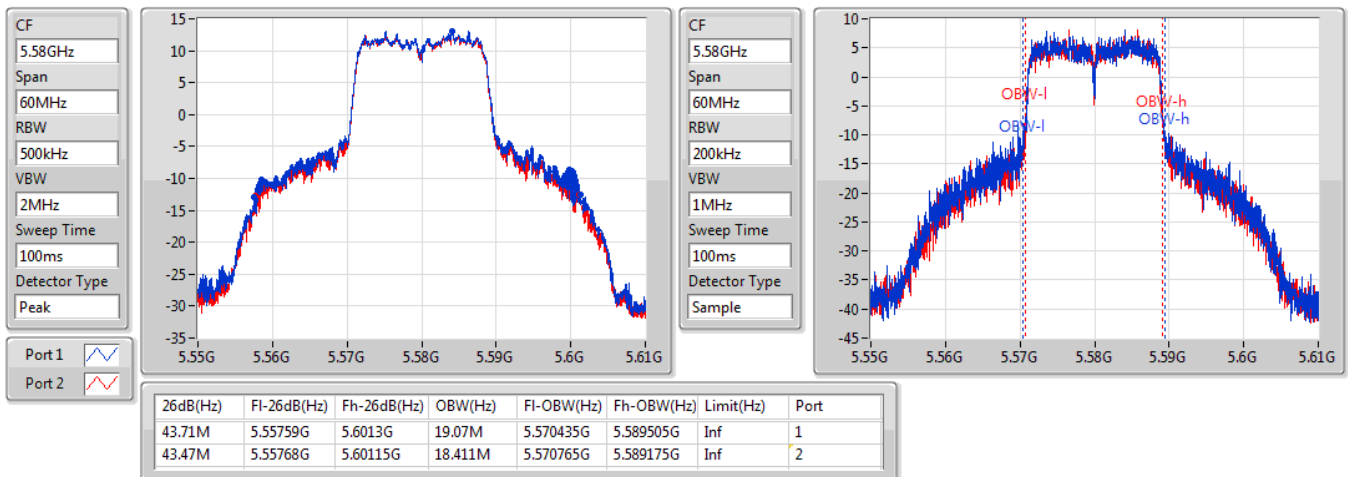


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5500MHz

27/10/2019

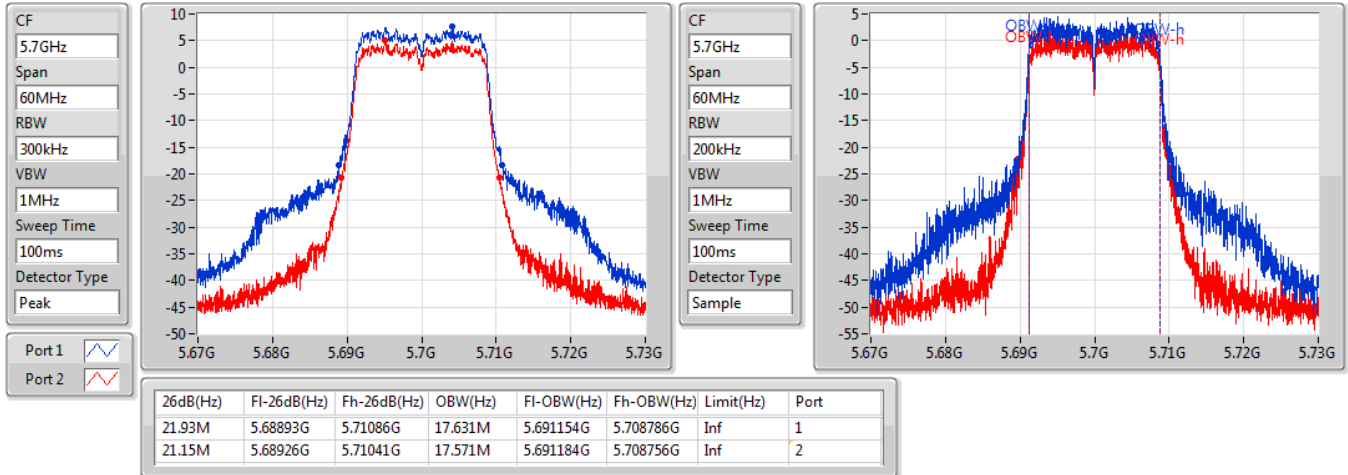

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5580MHz

27/10/2019

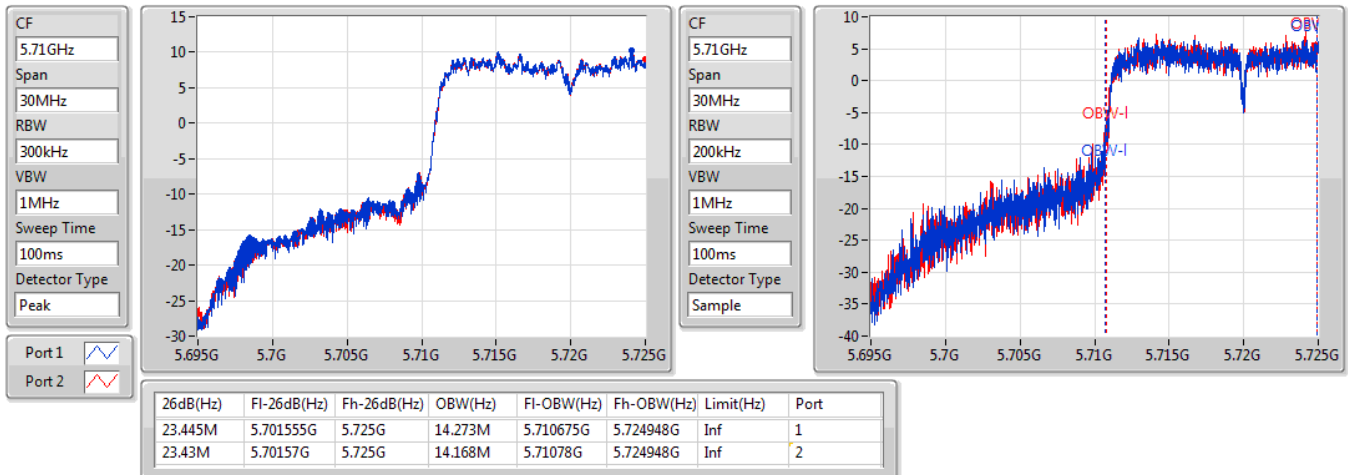


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5700MHz

27/10/2019

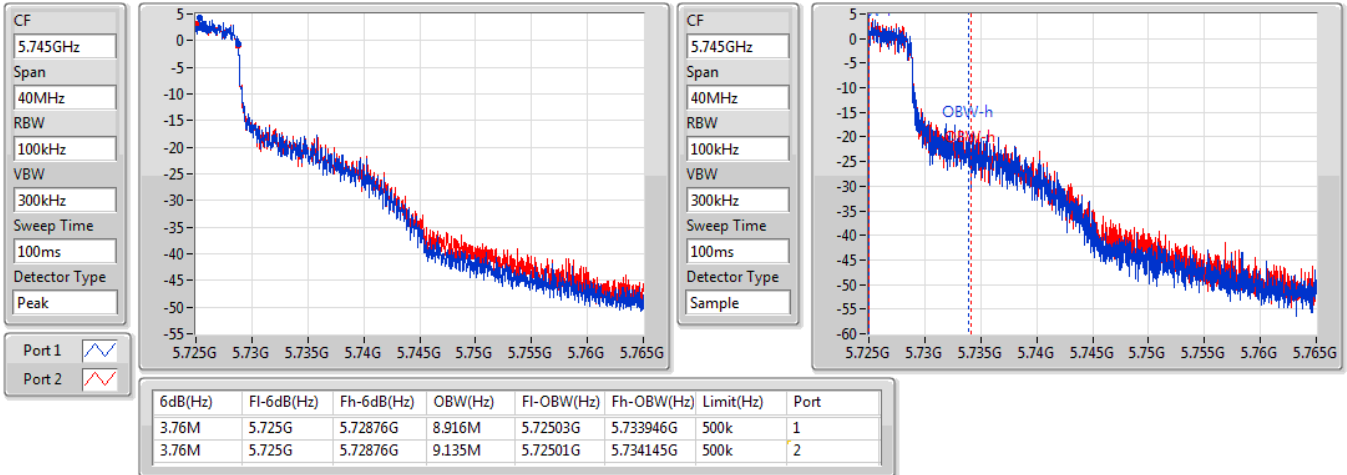

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

27/10/2019

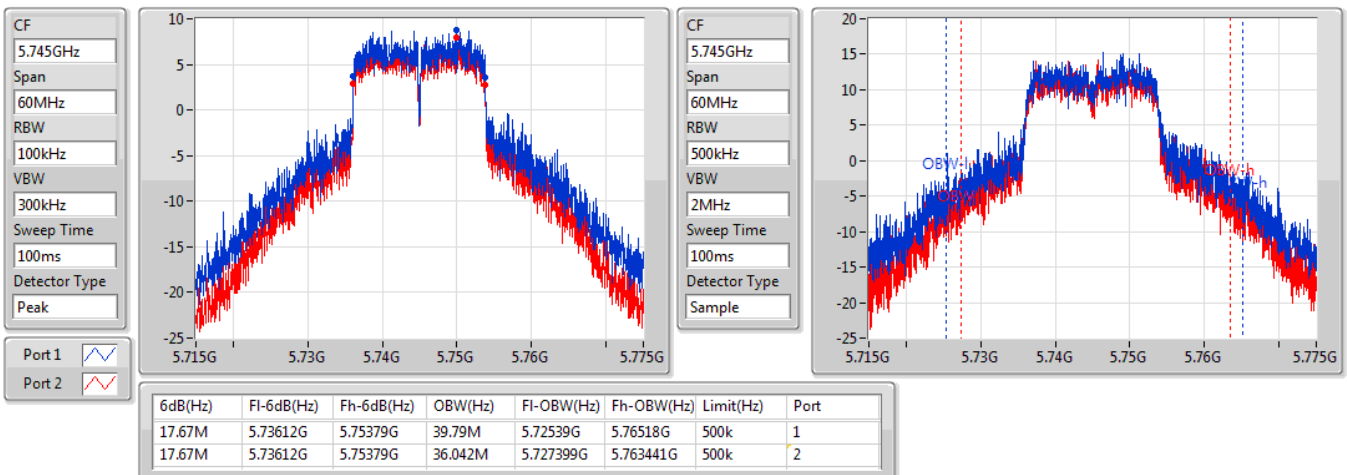


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

27/10/2019


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

27/10/2019

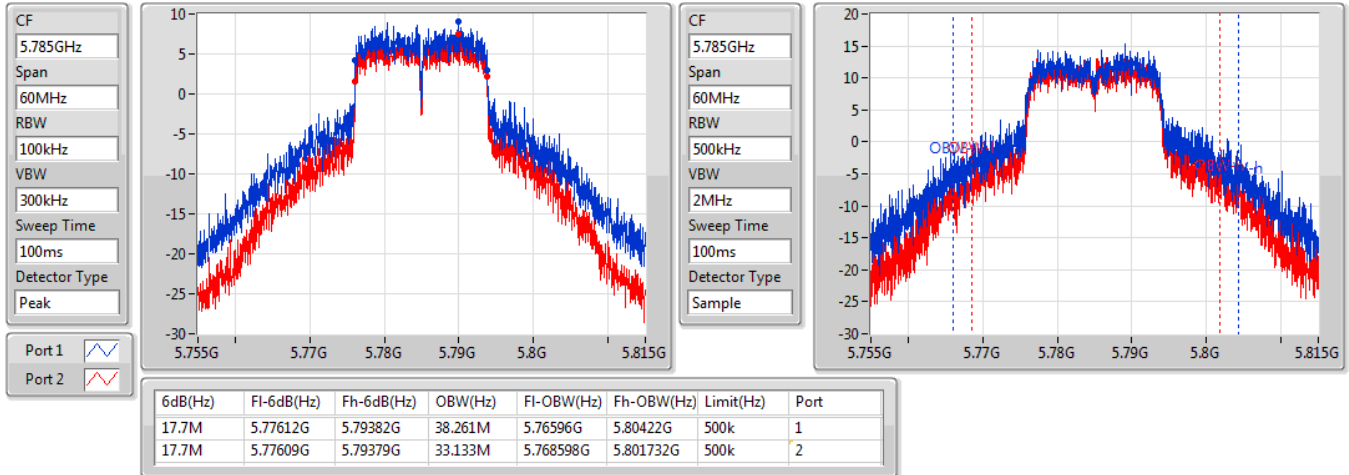


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

27/10/2019

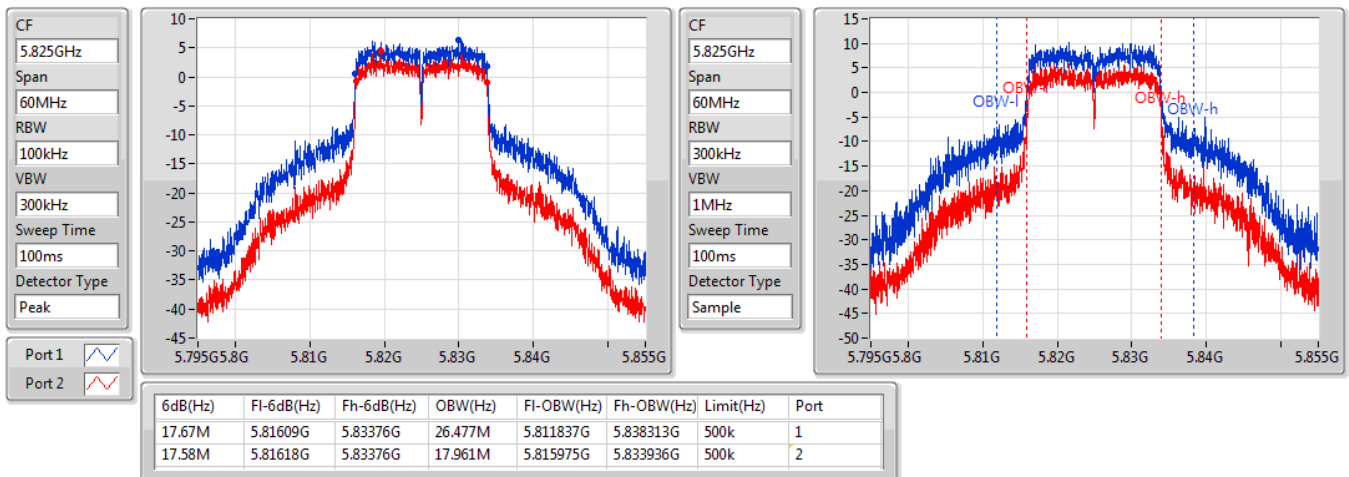


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

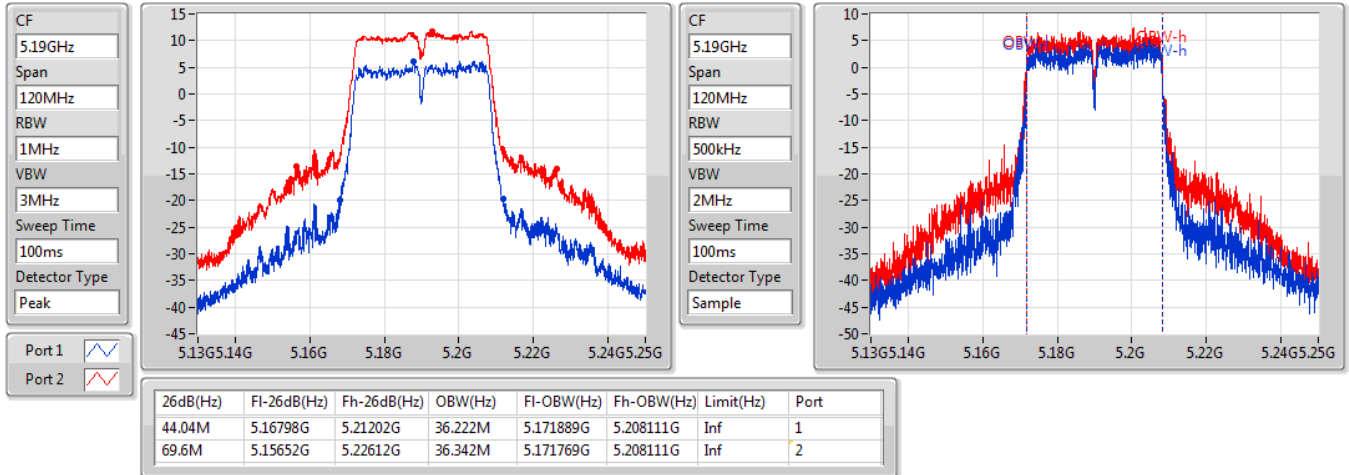
5825MHz

27/10/2019

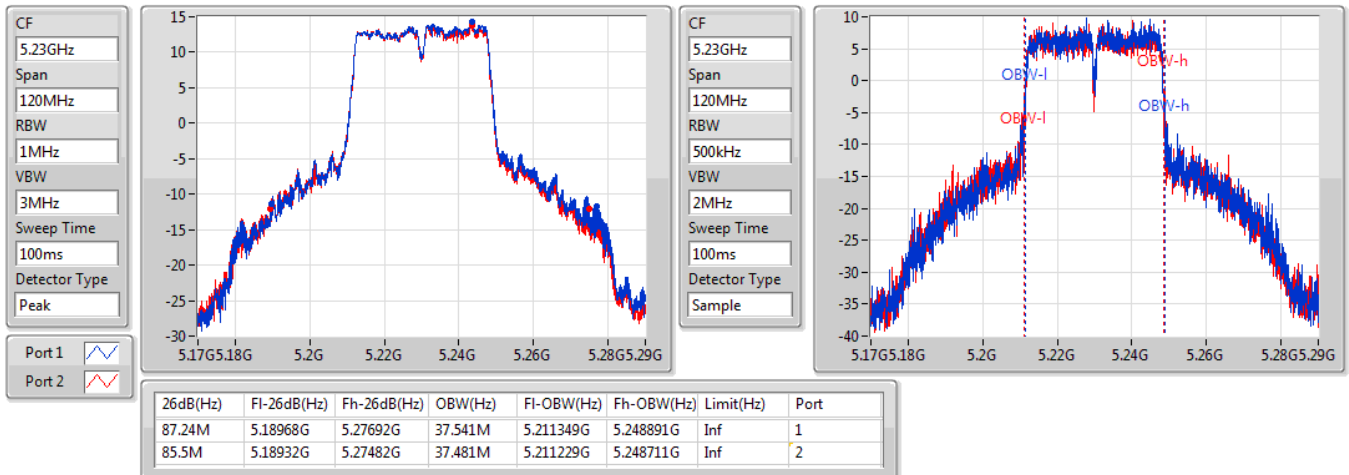


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

27/10/2019

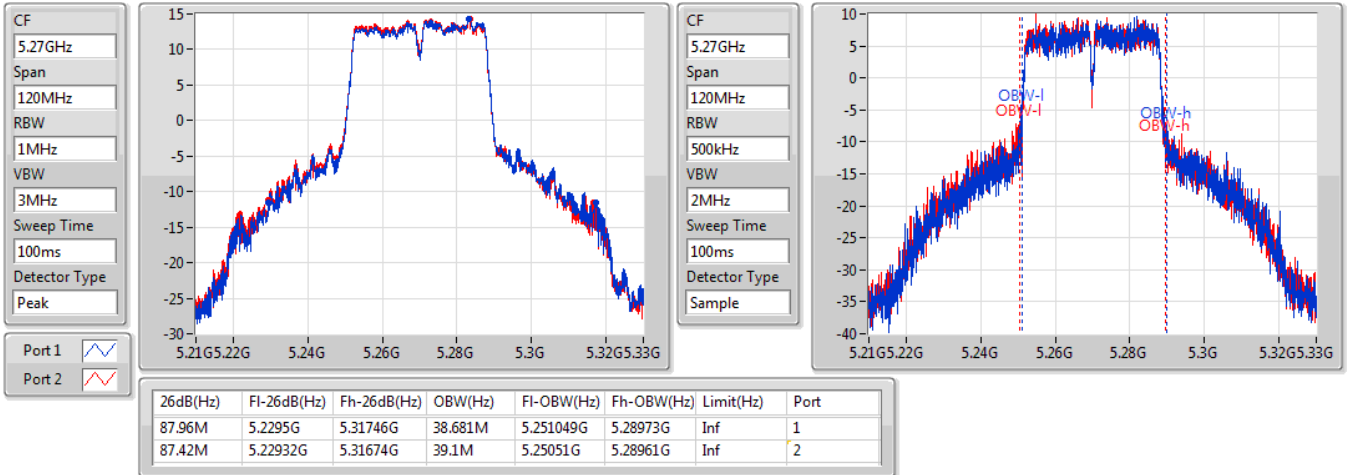

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

27/10/2019

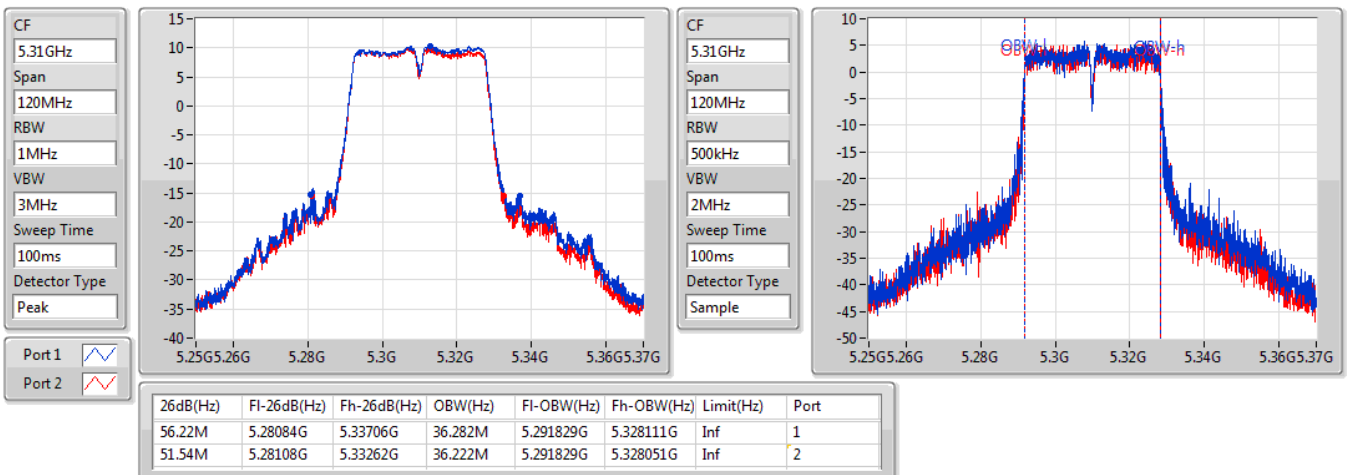


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5270MHz

27/10/2019

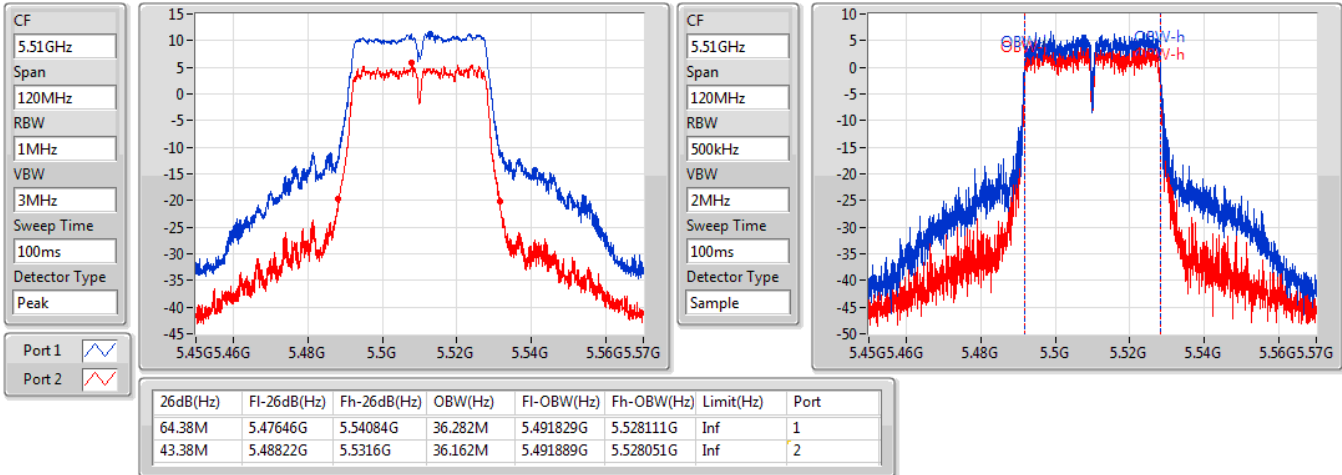

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5310MHz

27/10/2019

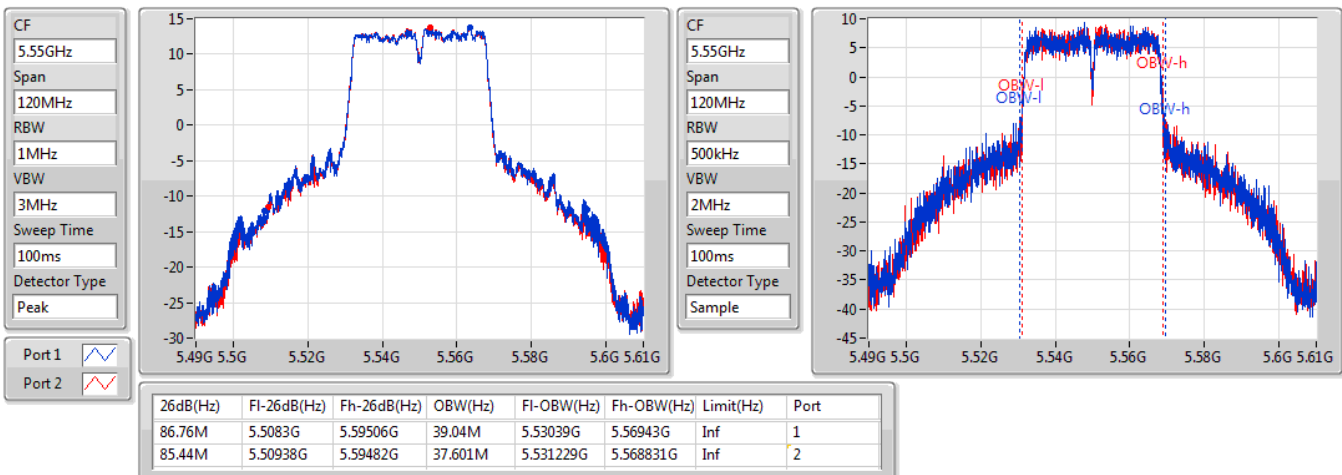


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5510MHz

27/10/2019

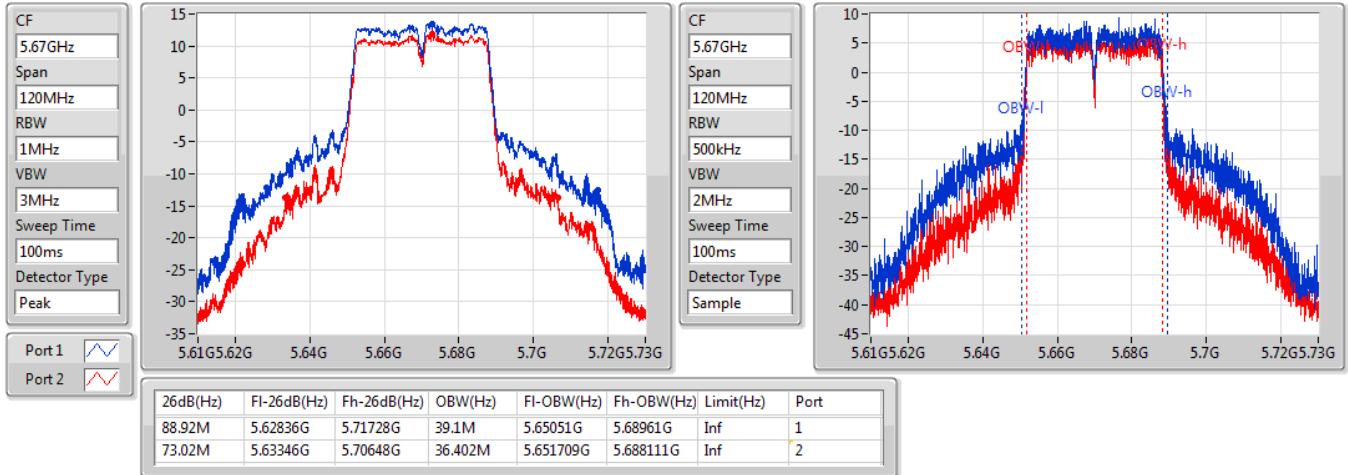

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5550MHz

27/10/2019

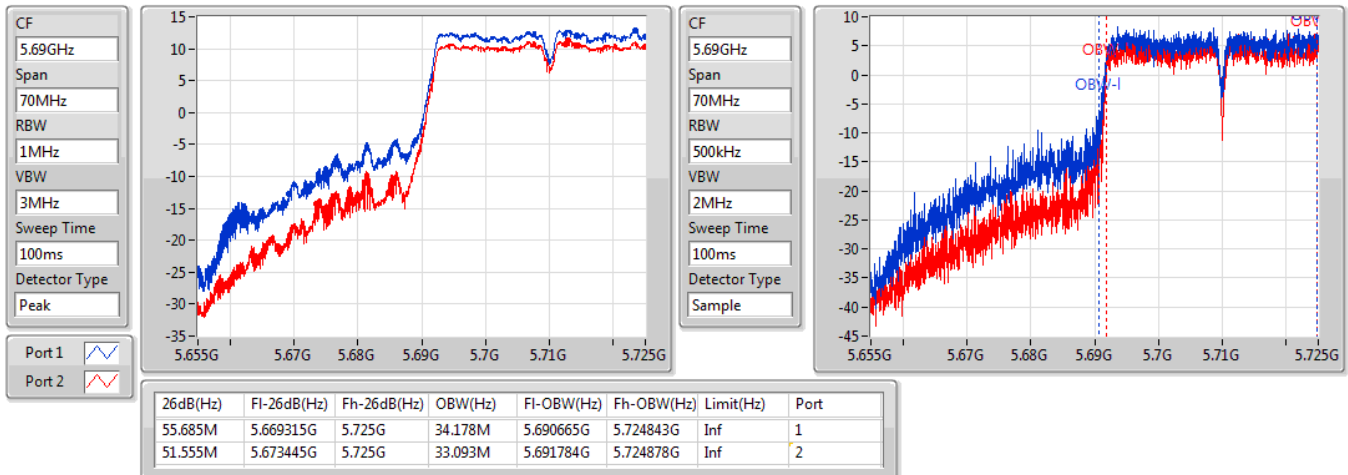


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5670MHz

27/10/2019

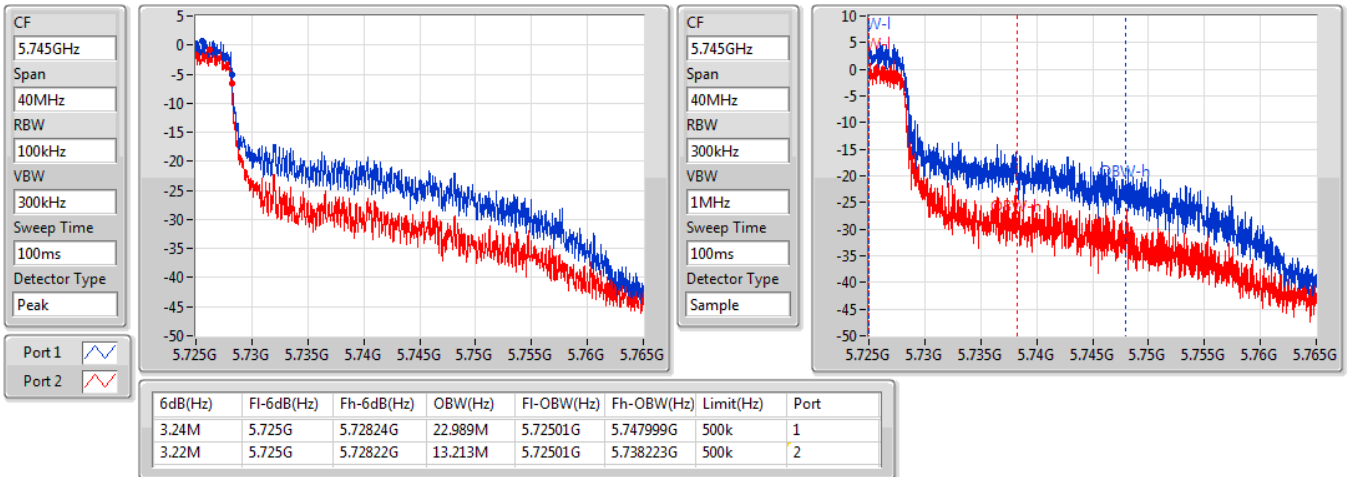

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

27/10/2019

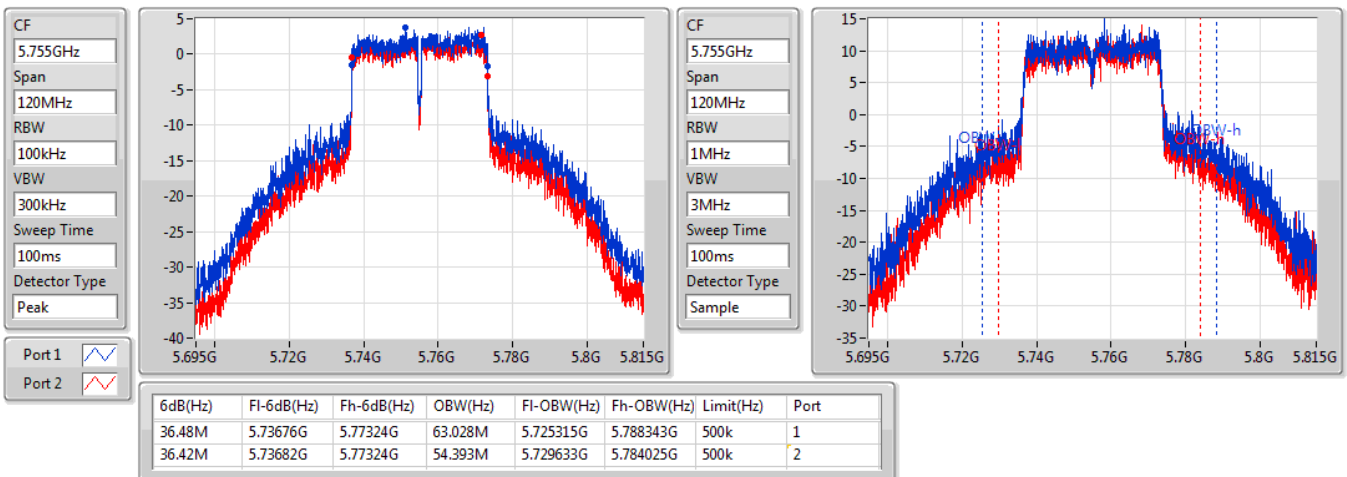


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

27/10/2019

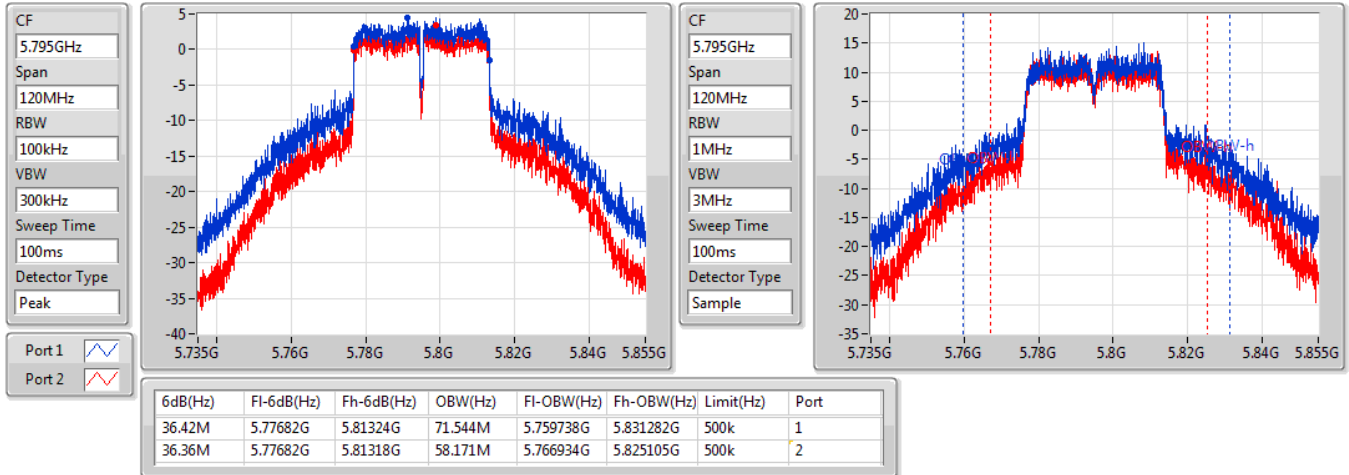

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

27/10/2019

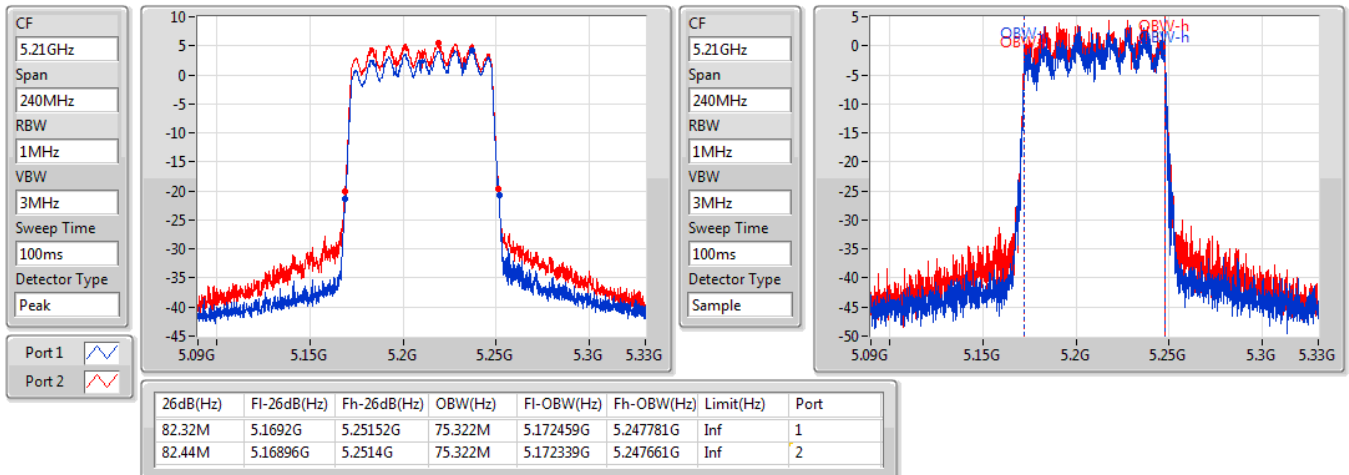


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

27/10/2019


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5210MHz

27/10/2019

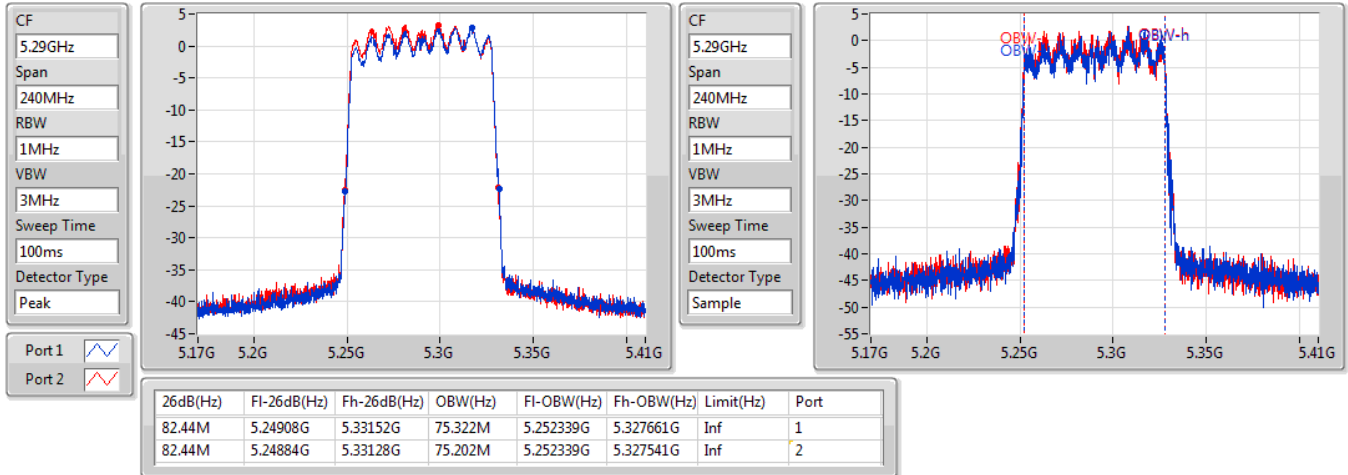


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5290MHz

27/10/2019

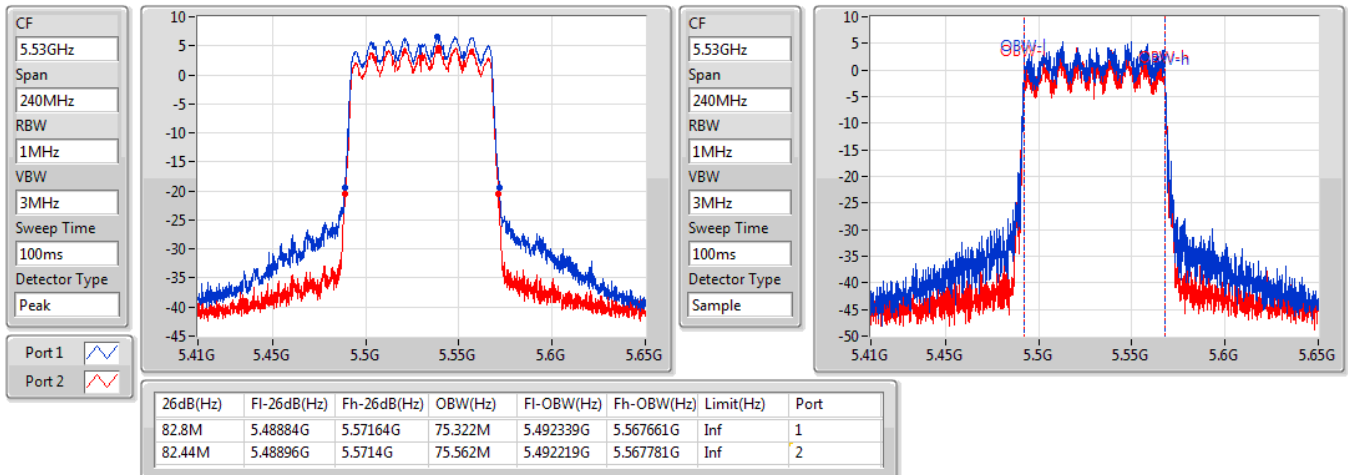


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

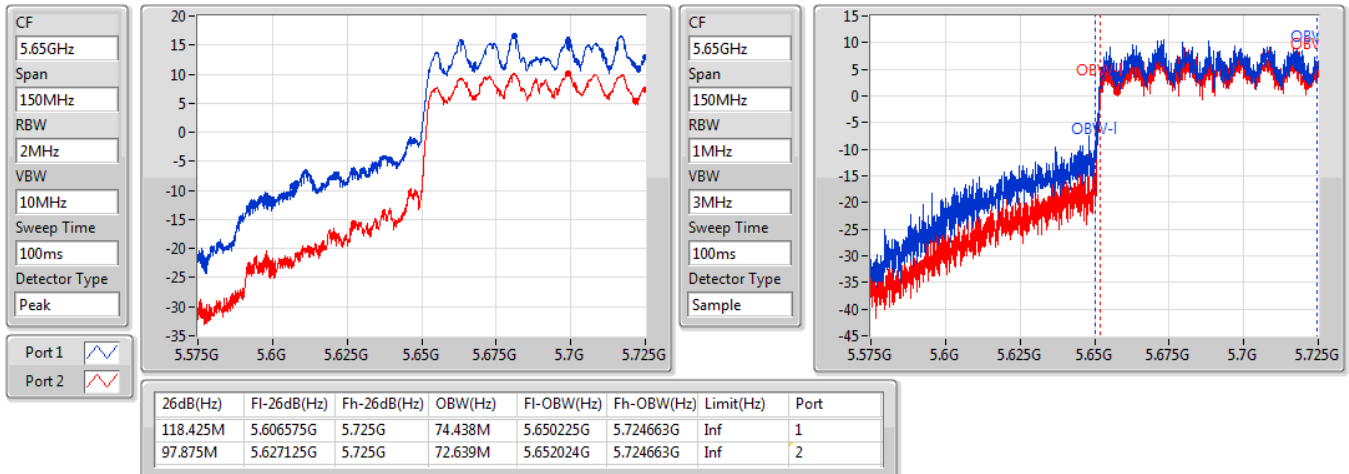
5530MHz

27/10/2019

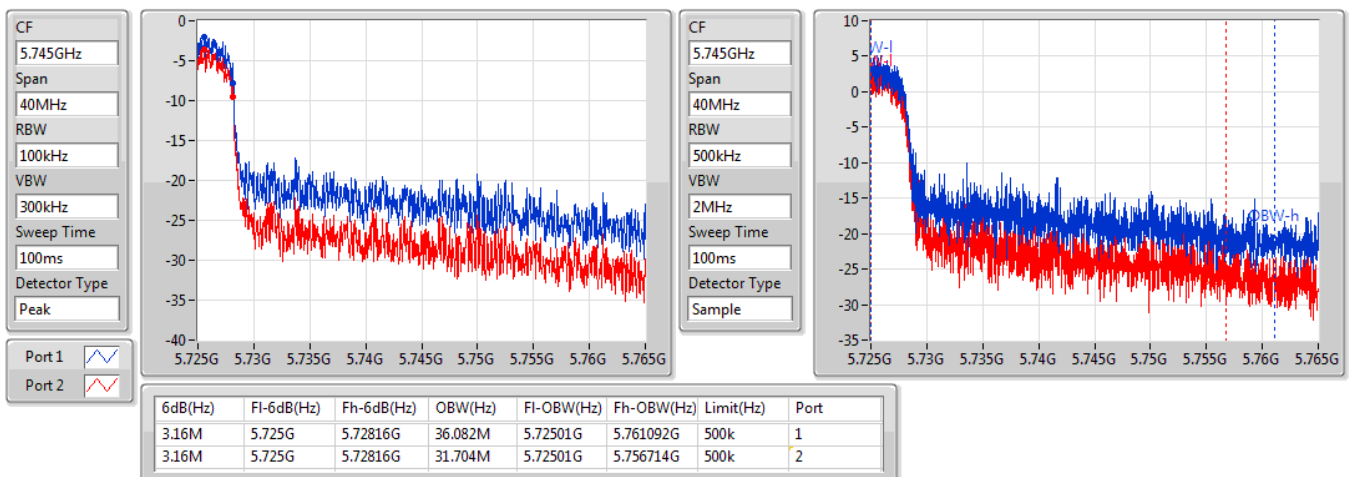


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

27/10/2019


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

27/10/2019

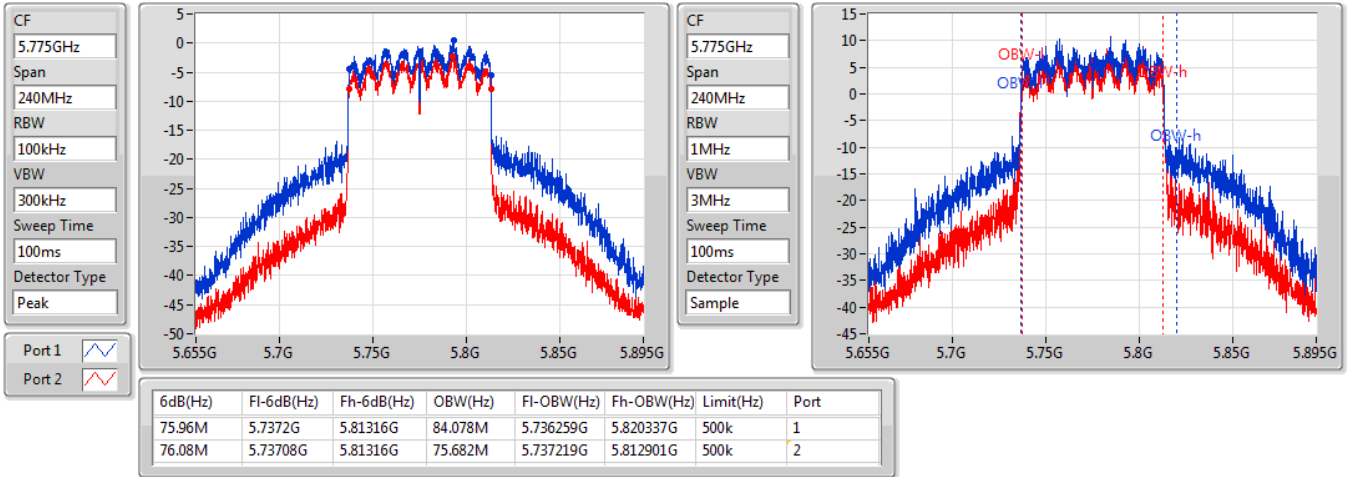


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

27/10/2019



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	24.86	0.30620	28.44	0.69823
802.11ac VHT20_Nss1,(MCS0)_2TX	25.26	0.33574	28.84	0.76560
802.11ac VHT40_Nss1,(MCS0)_2TX	23.48	0.22284	27.06	0.50816
802.11ac VHT80_Nss1,(MCS0)_2TX	16.88	0.04875	20.46	0.11117
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.73	0.23605	27.31	0.53827
802.11ac VHT20_Nss1,(MCS0)_2TX	23.61	0.22961	27.19	0.52360
802.11ac VHT40_Nss1,(MCS0)_2TX	23.67	0.23281	27.25	0.53088
802.11ac VHT80_Nss1,(MCS0)_2TX	19.17	0.08260	22.75	0.18836
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.02	0.20045	26.60	0.45709
802.11ac VHT20_Nss1,(MCS0)_2TX	22.98	0.19861	26.56	0.45290
802.11ac VHT40_Nss1,(MCS0)_2TX	23.18	0.20797	26.76	0.47424
802.11ac VHT80_Nss1,(MCS0)_2TX	21.35	0.13646	24.93	0.31117
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.36	0.34356	28.94	0.78343
802.11ac VHT20_Nss1,(MCS0)_2TX	24.61	0.28907	28.19	0.65917
802.11ac VHT40_Nss1,(MCS0)_2TX	24.95	0.31261	28.53	0.71285
802.11ac VHT80_Nss1,(MCS0)_2TX	23.19	0.20845	26.77	0.47534

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)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.58	16.44	18.62	20.68	30.00	24.26	36.00
5200MHz	Pass	3.58	21.51	22.16	24.86	30.00	28.44	36.00
5240MHz	Pass	3.58	20.13	20.72	23.45	30.00	27.03	36.00
5260MHz	Pass	3.58	20.57	20.28	23.44	23.98	27.02	30.00
5300MHz	Pass	3.58	20.67	20.08	23.40	23.98	26.98	30.00
5320MHz	Pass	3.58	20.99	20.44	23.73	23.98	27.31	30.00
5500MHz	Pass	3.58	20.44	19.54	23.02	23.98	26.60	30.00
5580MHz	Pass	3.58	19.96	19.88	22.93	23.98	26.51	30.00
5700MHz	Pass	3.58	19.77	17.83	21.92	23.98	25.50	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.58	18.03	17.14	20.62	23.98	24.20	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.58	12.46	11.50	15.02	30.00	18.60	36.00
5745MHz	Pass	3.58	22.28	22.22	25.26	30.00	28.84	36.00
5785MHz	Pass	3.58	22.36	22.34	25.36	30.00	28.94	36.00
5825MHz	Pass	3.58	19.85	17.92	22.00	30.00	25.58	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.58	17.54	19.24	21.48	30.00	25.06	36.00
5200MHz	Pass	3.58	21.68	22.76	25.26	30.00	28.84	36.00
5240MHz	Pass	3.58	20.62	20.60	23.62	30.00	27.20	36.00
5260MHz	Pass	3.58	20.59	20.56	23.59	23.98	27.17	30.00
5300MHz	Pass	3.58	20.90	20.28	23.61	23.98	27.19	30.00
5320MHz	Pass	3.58	19.50	19.68	22.60	23.98	26.18	30.00
5500MHz	Pass	3.58	20.19	18.68	22.51	23.98	26.09	30.00
5580MHz	Pass	3.58	20.01	19.93	22.98	23.98	26.56	30.00
5700MHz	Pass	3.58	19.89	18.51	22.26	23.98	25.84	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.58	17.56	17.64	20.61	23.98	24.19	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.58	11.97	12.05	15.02	30.00	18.60	36.00
5745MHz	Pass	3.58	21.84	20.90	24.41	30.00	27.99	36.00
5785MHz	Pass	3.58	21.91	21.00	24.49	30.00	28.07	36.00
5825MHz	Pass	3.58	22.14	20.98	24.61	30.00	28.19	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.58	14.75	16.62	18.80	30.00	22.38	36.00
5230MHz	Pass	3.58	20.54	20.40	23.48	30.00	27.06	36.00
5270MHz	Pass	3.58	20.54	20.77	23.67	23.98	27.25	30.00
5310MHz	Pass	3.58	17.41	16.98	20.21	23.98	23.79	30.00
5510MHz	Pass	3.58	18.42	16.51	20.58	23.98	24.16	30.00
5550MHz	Pass	3.58	20.12	20.21	23.18	23.98	26.76	30.00
5670MHz	Pass	3.58	20.08	18.59	22.41	23.98	25.99	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.58	18.47	17.04	20.82	23.98	24.40	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.58	8.31	6.78	10.62	30.00	14.20	36.00
5755MHz	Pass	3.58	21.32	20.39	23.89	30.00	27.47	36.00
5795MHz	Pass	3.58	22.36	21.47	24.95	30.00	28.53	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.58	12.80	14.73	16.88	30.00	20.46	36.00



Average Power_PIFA Antenna

Appendix C.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5290MHz	Pass	3.58	16.25	16.06	19.17	23.98	22.75	30.00
5530MHz	Pass	3.58	17.21	15.69	19.53	23.98	23.11	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.58	18.90	17.70	21.35	23.98	24.93	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.58	5.47	3.80	7.73	30.00	11.31	36.00
5775MHz	Pass	3.58	20.72	19.56	23.19	30.00	26.77	36.00

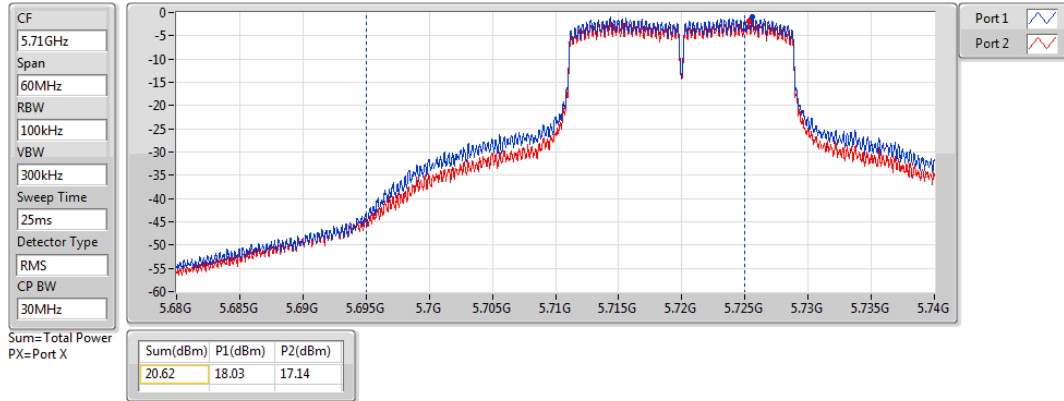
DG = Directional Gain; **Port X** = Port X output power

802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

27/10/2019

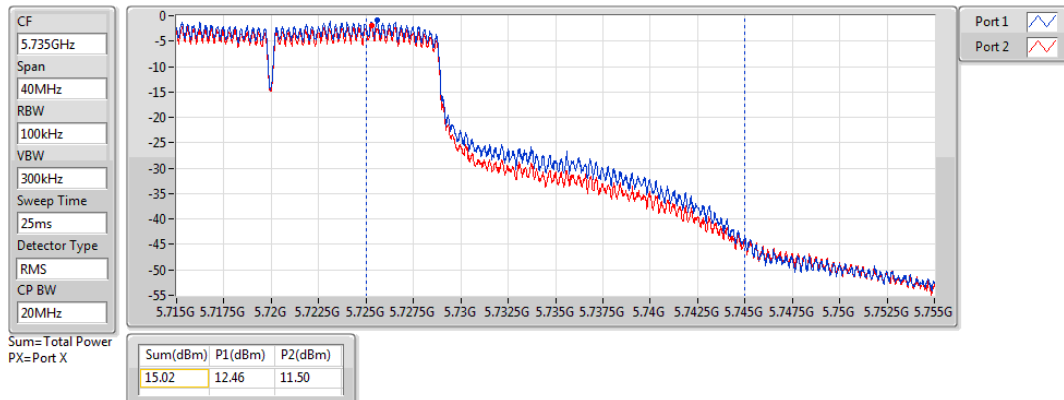


802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

27/10/2019

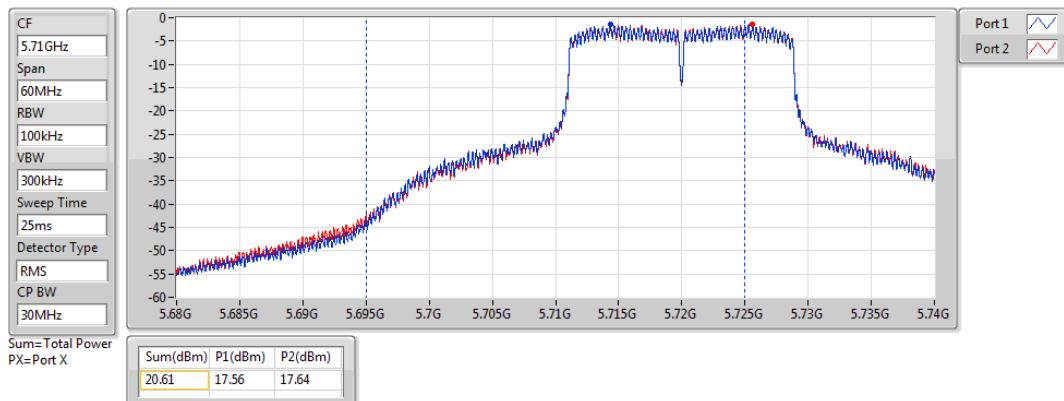


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

27/10/2019

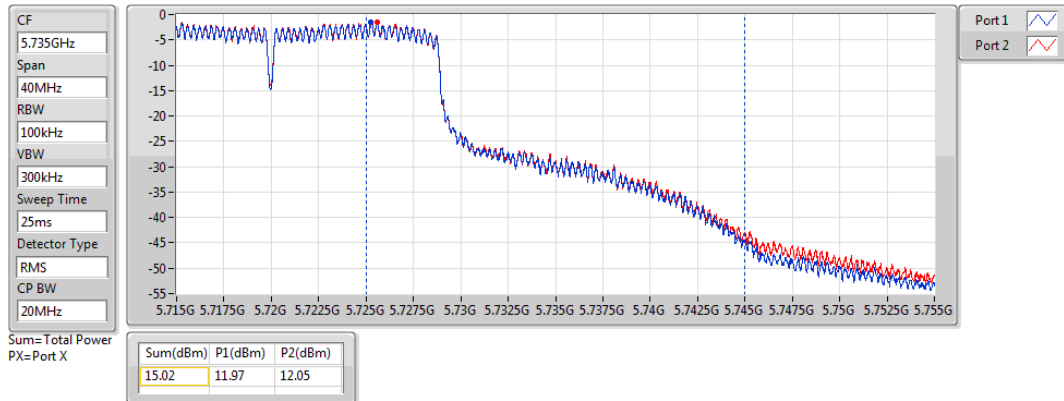


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

27/10/2019

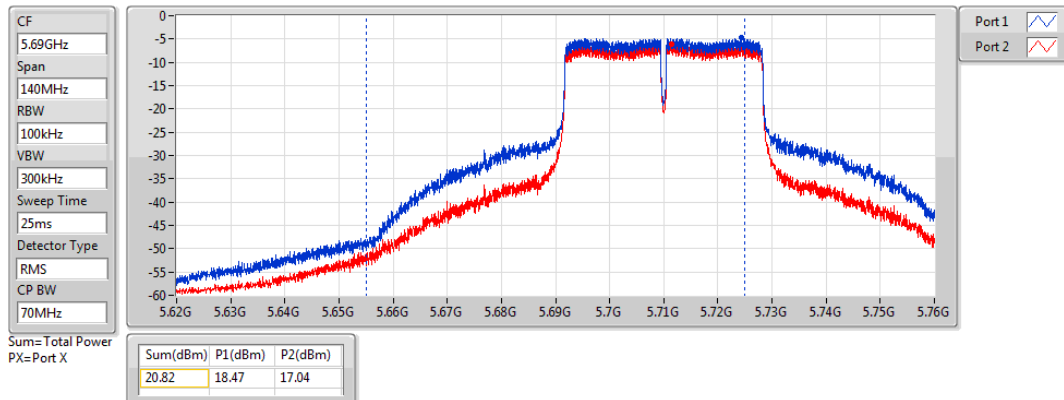


802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz

27/10/2019

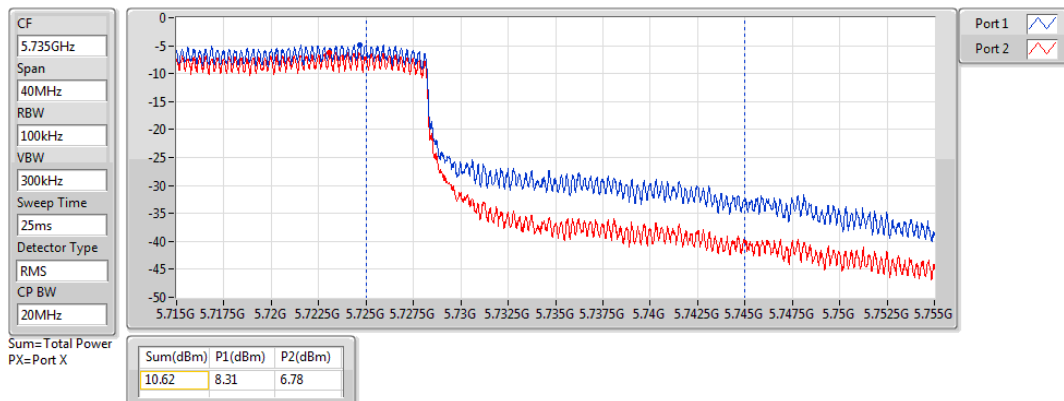


802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz

27/10/2019

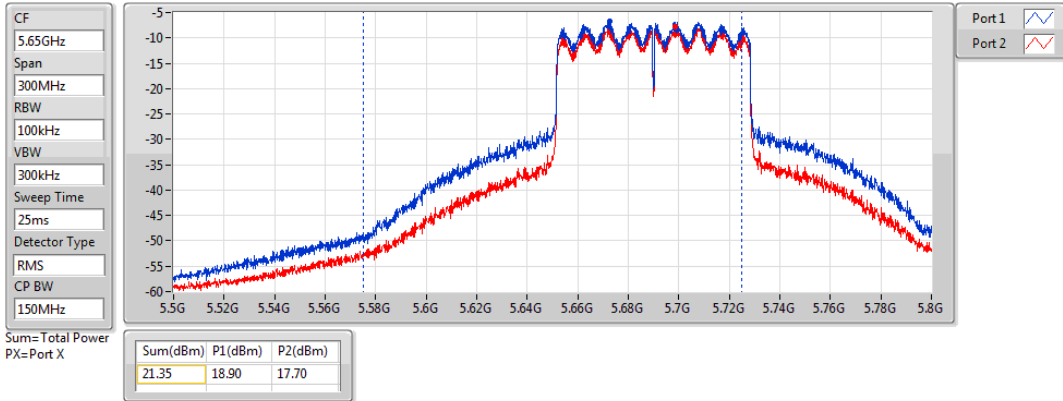


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz

27/10/2019

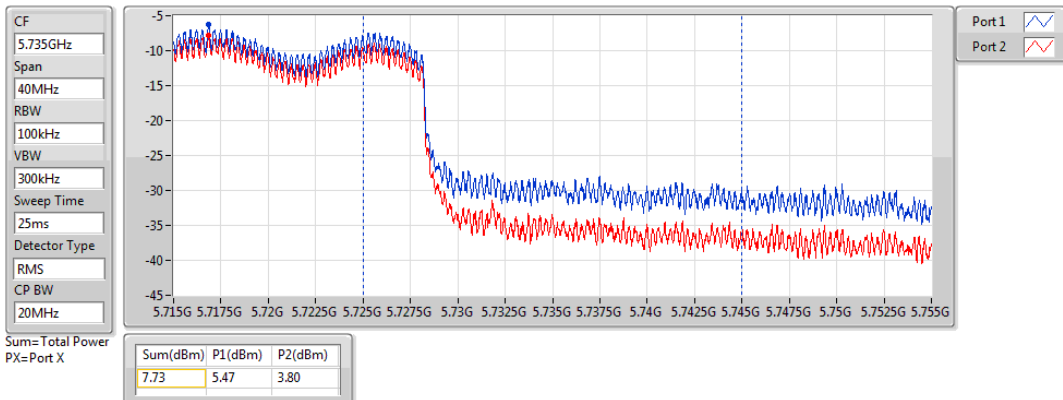


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz

27/10/2019



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.66	0.36813	29.38	0.86696
802.11ac VHT20_Nss1,(MCS0)_2TX	25.81	0.38107	29.53	0.89743
802.11ac VHT40_Nss1,(MCS0)_2TX	23.48	0.22284	27.20	0.52481
802.11ac VHT80_Nss1,(MCS0)_2TX	16.62	0.04592	20.34	0.10814
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.73	0.23605	27.45	0.55590
802.11ac VHT20_Nss1,(MCS0)_2TX	23.61	0.22961	27.33	0.54075
802.11ac VHT40_Nss1,(MCS0)_2TX	23.67	0.23281	27.39	0.54828
802.11ac VHT80_Nss1,(MCS0)_2TX	14.96	0.03133	18.68	0.07379
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.02	0.20045	26.74	0.47206
802.11ac VHT20_Nss1,(MCS0)_2TX	22.98	0.19861	26.70	0.46774
802.11ac VHT40_Nss1,(MCS0)_2TX	23.18	0.20797	26.90	0.48978
802.11ac VHT80_Nss1,(MCS0)_2TX	21.35	0.13646	25.07	0.32137
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.22	0.33266	28.94	0.78343
802.11ac VHT20_Nss1,(MCS0)_2TX	25.25	0.33497	28.97	0.78886
802.11ac VHT40_Nss1,(MCS0)_2TX	24.29	0.26853	28.01	0.63241
802.11ac VHT80_Nss1,(MCS0)_2TX	21.88	0.15417	25.60	0.36308

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)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.72	18.91	20.59	22.84	30.00	26.56	36.00
5200MHz	Pass	3.72	22.48	22.82	25.66	30.00	29.38	36.00
5240MHz	Pass	3.72	20.13	20.72	23.45	30.00	27.17	36.00
5260MHz	Pass	3.72	20.57	20.28	23.44	23.98	27.16	30.00
5300MHz	Pass	3.72	20.67	20.08	23.40	23.98	27.12	30.00
5320MHz	Pass	3.72	20.99	20.44	23.73	23.98	27.45	30.00
5500MHz	Pass	3.72	20.44	19.54	23.02	23.98	26.74	30.00
5580MHz	Pass	3.72	19.96	19.88	22.93	23.98	26.65	30.00
5700MHz	Pass	3.72	19.94	18.94	22.48	23.98	26.20	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.72	18.03	17.14	20.62	23.98	24.34	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.72	12.46	11.50	15.02	30.00	18.74	36.00
5745MHz	Pass	3.72	22.61	21.77	25.22	30.00	28.94	36.00
5785MHz	Pass	3.72	21.26	19.98	23.68	30.00	27.40	36.00
5825MHz	Pass	3.72	20.21	18.30	22.37	30.00	26.09	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.72	19.44	21.15	23.39	30.00	27.11	36.00
5200MHz	Pass	3.72	22.61	22.98	25.81	30.00	29.53	36.00
5240MHz	Pass	3.72	20.62	20.60	23.62	30.00	27.34	36.00
5260MHz	Pass	3.72	20.59	20.56	23.59	23.98	27.31	30.00
5300MHz	Pass	3.72	20.90	20.28	23.61	23.98	27.33	30.00
5320MHz	Pass	3.72	20.48	19.93	23.22	23.98	26.94	30.00
5500MHz	Pass	3.72	18.62	16.64	20.75	23.98	24.47	30.00
5580MHz	Pass	3.72	20.01	19.93	22.98	23.98	26.70	30.00
5700MHz	Pass	3.72	16.67	14.85	18.86	23.98	22.58	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.72	17.56	17.64	20.61	23.98	24.33	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.72	11.97	12.05	15.02	30.00	18.74	36.00
5745MHz	Pass	3.72	22.61	21.84	25.25	30.00	28.97	36.00
5785MHz	Pass	3.72	22.44	21.32	24.93	30.00	28.65	36.00
5825MHz	Pass	3.72	20.70	18.61	22.79	30.00	26.51	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.72	16.36	18.45	20.54	30.00	24.26	36.00
5230MHz	Pass	3.72	20.54	20.40	23.48	30.00	27.20	36.00
5270MHz	Pass	3.72	20.54	20.77	23.67	23.98	27.39	30.00
5310MHz	Pass	3.72	17.41	16.98	20.21	23.98	23.93	30.00
5510MHz	Pass	3.72	18.42	16.51	20.58	23.98	24.30	30.00
5550MHz	Pass	3.72	20.12	20.21	23.18	23.98	26.90	30.00
5670MHz	Pass	3.72	20.08	18.59	22.41	23.98	26.13	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.72	18.47	17.04	20.82	23.98	24.54	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.72	8.31	6.78	10.62	30.00	14.34	36.00
5755MHz	Pass	3.72	21.32	20.39	23.89	30.00	27.61	36.00
5795MHz	Pass	3.72	21.89	20.58	24.29	30.00	28.01	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.72	12.82	14.27	16.62	30.00	20.34	36.00



Average Power_Dipole Antenna

Appendix C.2

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5290MHz	Pass	3.72	11.59	12.28	14.96	23.98	18.68	30.00
5530MHz	Pass	3.72	15.20	13.46	17.43	23.98	21.15	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.72	18.90	17.70	21.35	23.98	25.07	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.72	5.47	3.80	7.73	30.00	11.45	36.00
5775MHz	Pass	3.72	19.77	17.74	21.88	30.00	25.60	36.00

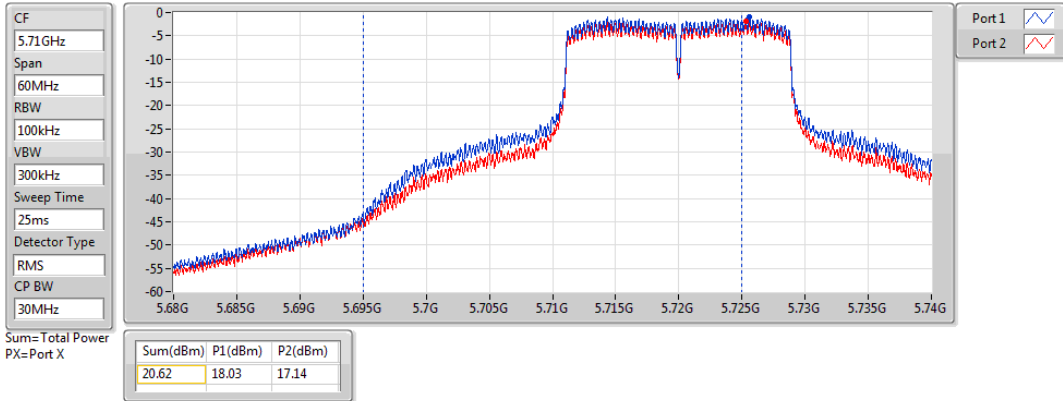
DG = Directional Gain; **Port X** = Port X output power

802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

27/10/2019

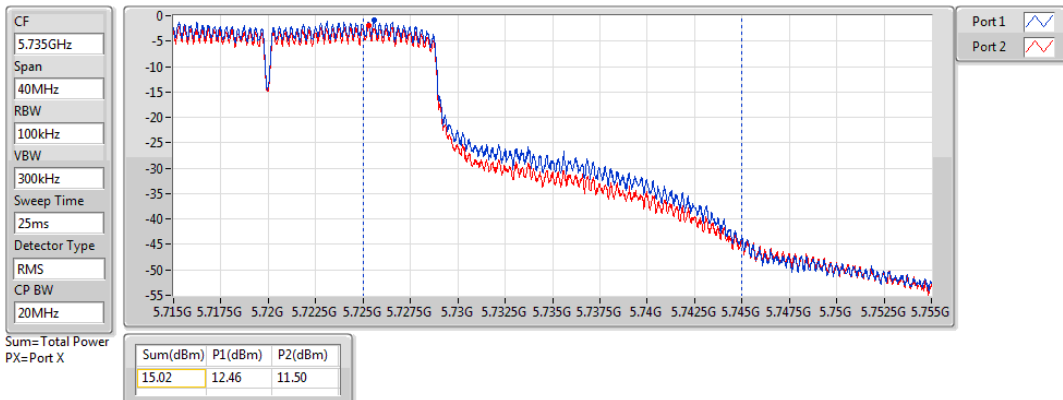


802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

27/10/2019

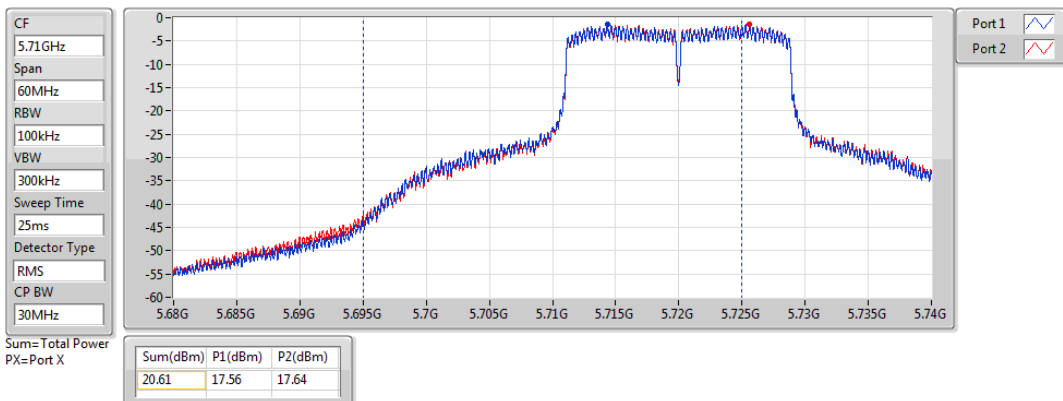


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

27/10/2019

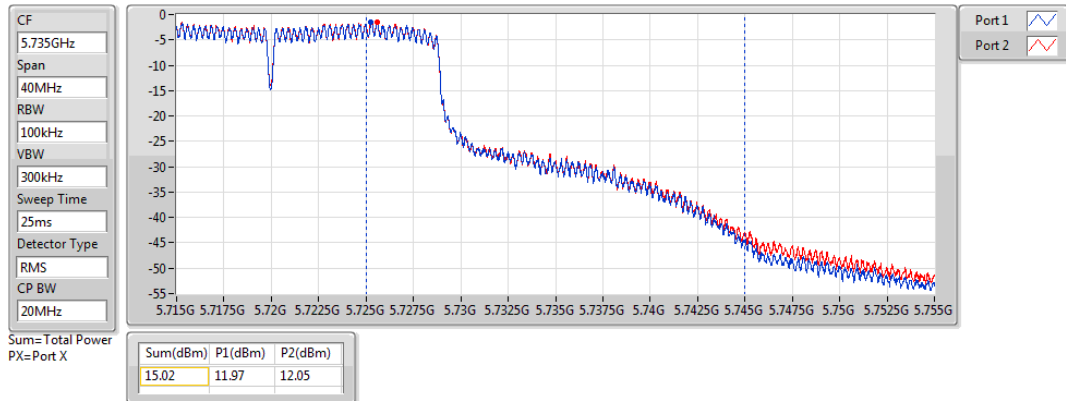


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

27/10/2019

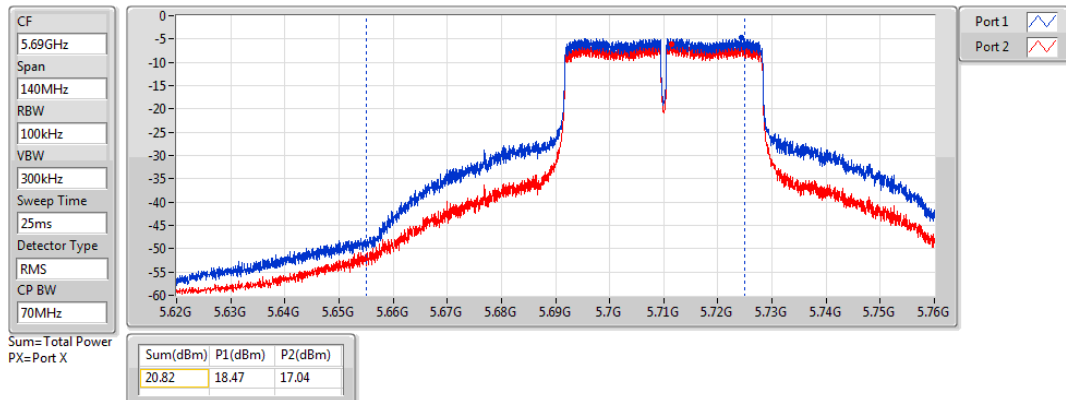


802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz

27/10/2019

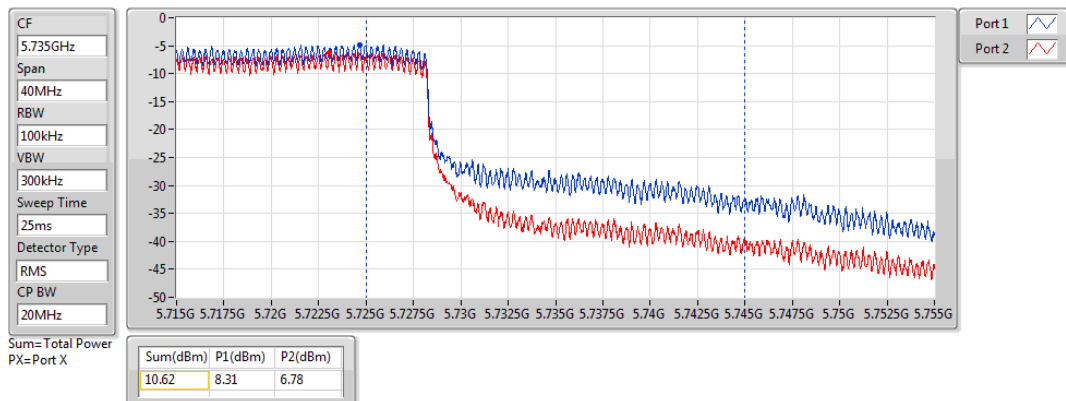


802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz

27/10/2019

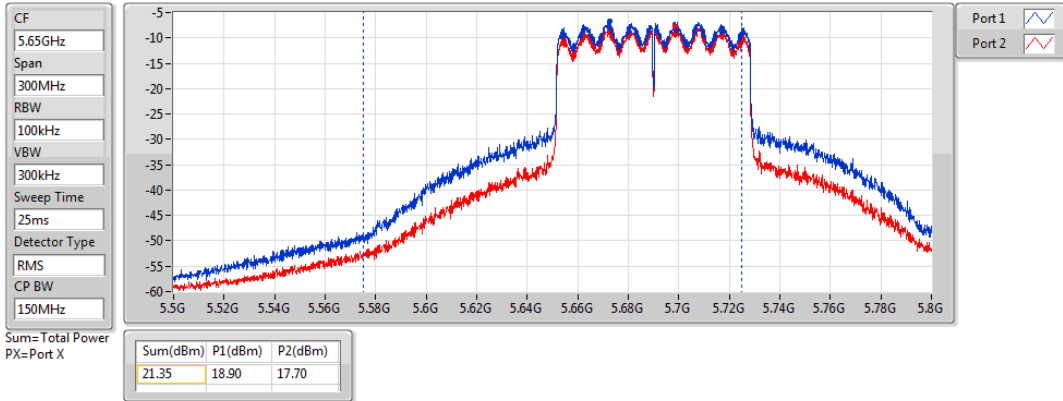


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz

27/10/2019

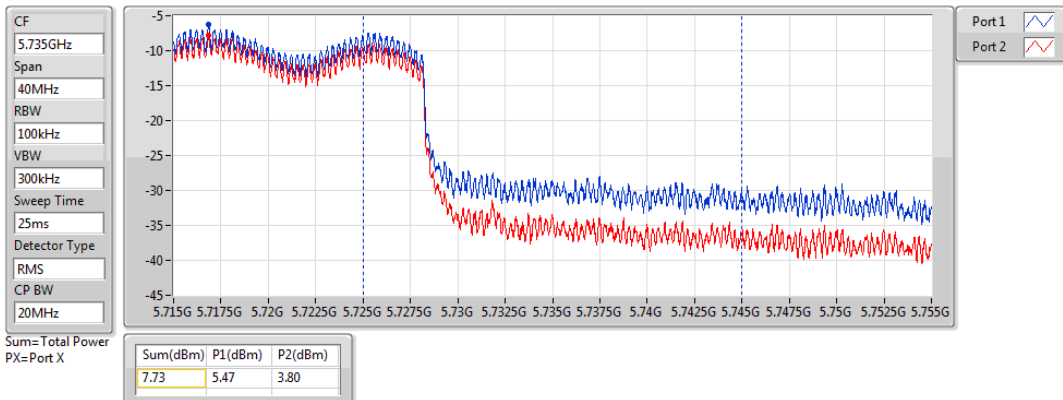


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz

27/10/2019



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.01	17.12
802.11ac VHT20_Nss1,(MCS0)_2TX	11.74	17.85
802.11ac VHT40_Nss1,(MCS0)_2TX	6.79	12.90
802.11ac VHT80_Nss1,(MCS0)_2TX	-1.09	5.02
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.13	16.24
802.11ac VHT20_Nss1,(MCS0)_2TX	10.09	16.20
802.11ac VHT40_Nss1,(MCS0)_2TX	6.94	13.05
802.11ac VHT80_Nss1,(MCS0)_2TX	0.04	6.15
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.67	15.78
802.11ac VHT20_Nss1,(MCS0)_2TX	9.63	15.74
802.11ac VHT40_Nss1,(MCS0)_2TX	6.52	12.63
802.11ac VHT80_Nss1,(MCS0)_2TX	3.63	9.74
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.15	16.26
802.11ac VHT20_Nss1,(MCS0)_2TX	9.36	15.47
802.11ac VHT40_Nss1,(MCS0)_2TX	6.35	12.46
802.11ac VHT80_Nss1,(MCS0)_2TX	3.83	9.94

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)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.11	3.40	5.04	7.28	16.89	13.39	23.00
5200MHz	Pass	6.11	7.74	8.31	11.01	16.89	17.12	23.00
5240MHz	Pass	6.11	6.79	7.25	10.02	16.89	16.13	23.00
5260MHz	Pass	6.11	6.77	6.30	9.54	10.89	15.65	17.00
5300MHz	Pass	6.11	7.17	6.47	9.83	10.89	15.94	17.00
5320MHz	Pass	6.11	7.42	6.79	10.13	10.89	16.24	17.00
5500MHz	Pass	6.11	7.10	6.20	9.67	10.89	15.78	17.00
5580MHz	Pass	6.11	6.63	6.56	9.60	10.89	15.71	17.00
5700MHz	Pass	6.11	6.00	4.14	8.17	10.89	14.28	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.11	6.14	5.25	8.71	10.89	14.82	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.11	4.65	3.73	7.22	29.89	13.33	36.00
5745MHz	Pass	6.11	7.19	7.18	10.13	29.89	16.24	36.00
5785MHz	Pass	6.11	7.21	7.09	10.15	29.89	16.26	36.00
5825MHz	Pass	6.11	5.06	2.64	7.00	29.89	13.11	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.11	4.01	5.62	7.89	16.89	14.00	23.00
5200MHz	Pass	6.11	8.24	9.23	11.74	16.89	17.85	23.00
5240MHz	Pass	6.11	7.21	7.09	10.14	16.89	16.25	23.00
5260MHz	Pass	6.11	7.15	7.00	10.09	10.89	16.20	17.00
5300MHz	Pass	6.11	7.38	6.67	10.03	10.89	16.14	17.00
5320MHz	Pass	6.11	6.36	5.67	9.01	10.89	15.12	17.00
5500MHz	Pass	6.11	6.77	5.21	9.07	10.89	15.18	17.00
5580MHz	Pass	6.11	6.68	6.58	9.63	10.89	15.74	17.00
5700MHz	Pass	6.11	6.29	4.93	8.67	10.89	14.78	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.11	5.70	5.70	8.67	10.89	14.78	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.11	4.16	4.30	7.22	29.89	13.33	36.00
5745MHz	Pass	6.11	6.73	5.93	9.36	29.89	15.47	36.00
5785MHz	Pass	6.11	6.80	5.93	9.34	29.89	15.45	36.00
5825MHz	Pass	6.11	6.92	5.80	9.36	29.89	15.47	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.11	-2.05	0.15	2.14	16.89	8.25	23.00
5230MHz	Pass	6.11	4.04	3.68	6.79	16.89	12.90	23.00
5270MHz	Pass	6.11	3.93	4.04	6.94	10.89	13.05	17.00
5310MHz	Pass	6.11	0.71	0.29	3.48	10.89	9.59	17.00
5510MHz	Pass	6.11	1.55	-0.61	3.56	10.89	9.67	17.00
5550MHz	Pass	6.11	3.45	3.60	6.52	10.89	12.63	17.00
5670MHz	Pass	6.11	3.29	1.98	5.66	10.89	11.77	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.11	2.58	1.28	4.98	10.89	11.09	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.11	0.85	-0.59	3.18	29.89	9.29	36.00
5755MHz	Pass	6.11	3.19	2.24	5.71	29.89	11.82	36.00
5795MHz	Pass	6.11	3.72	3.06	6.35	29.89	12.46	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.11	-5.10	-3.29	-1.09	16.89	5.02	23.00

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)
5290MHz	Pass	6.11	-2.67	-3.26	0.04	10.89	6.15	17.00
5530MHz	Pass	6.11	-1.16	-2.74	1.12	10.89	7.23	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.11	1.13	0.08	3.63	10.89	9.74	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.11	-1.69	-3.17	0.59	29.89	6.70	36.00
5775MHz	Pass	6.11	1.42	0.12	3.83	29.89	9.94	36.00

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

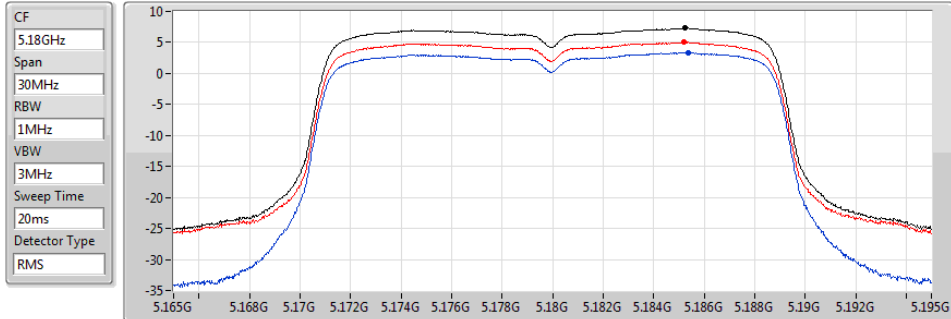
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

26/10/2019



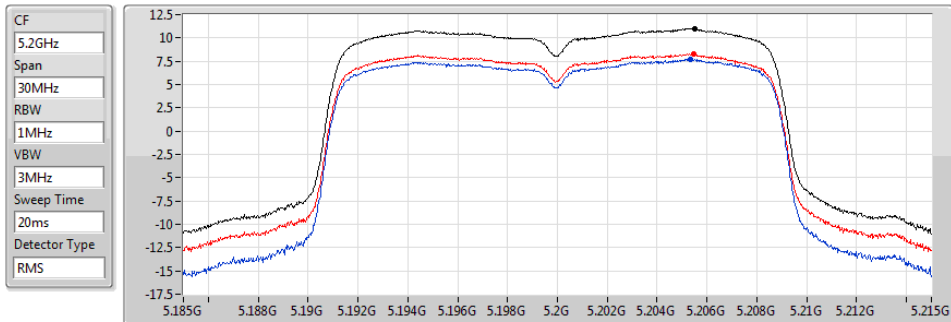
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.28	7.28	3.40	5.04

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

26/10/2019



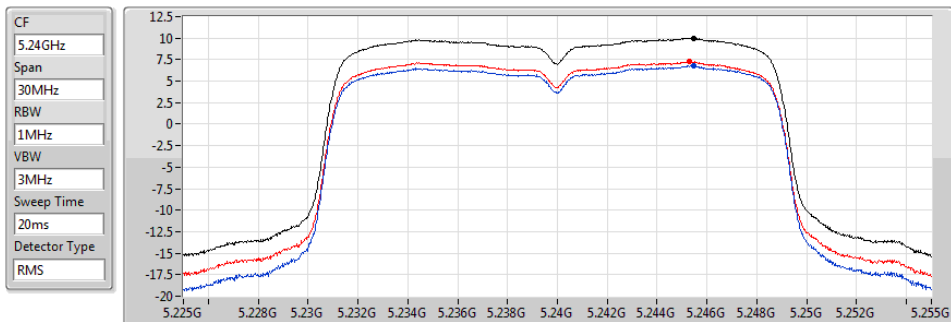
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.01	11.01	7.74	8.31

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

26/10/2019



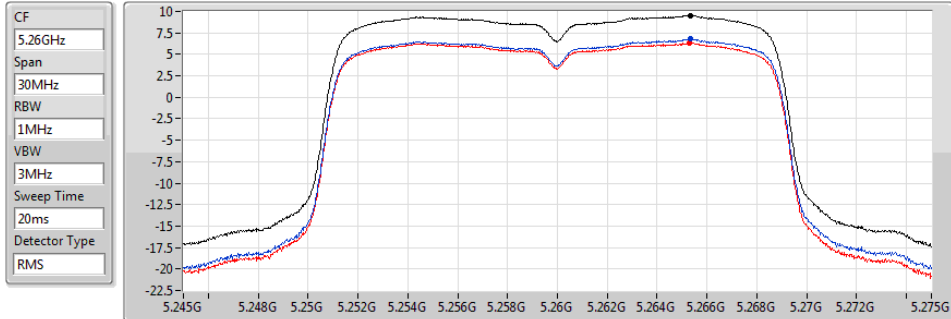
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.02	10.02	6.79	7.25

802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

26/10/2019



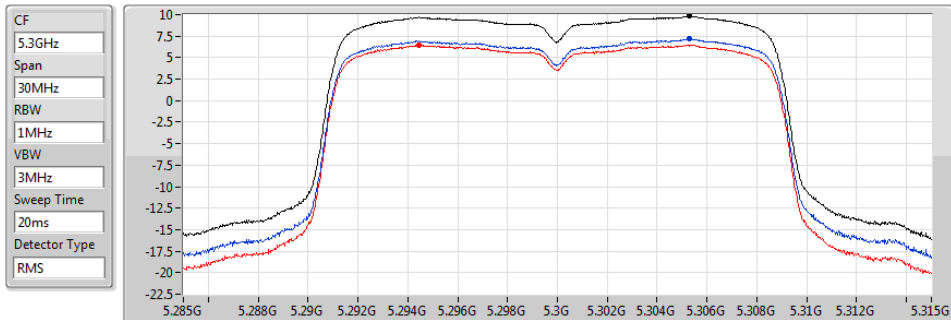
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.54	9.54	6.77	6.30

802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

26/10/2019



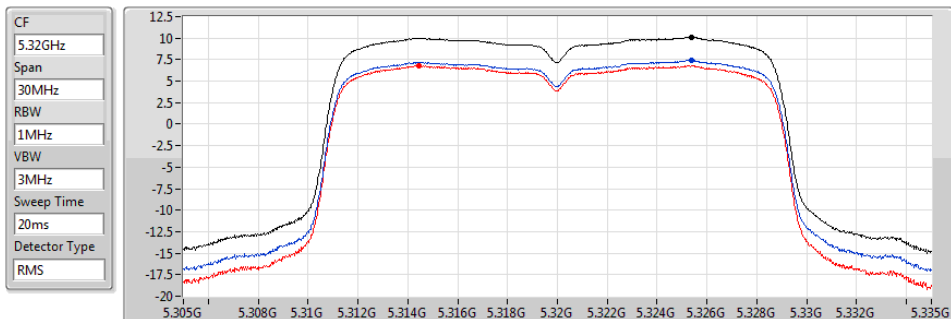
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.83	9.83	7.17	6.47

802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

26/10/2019



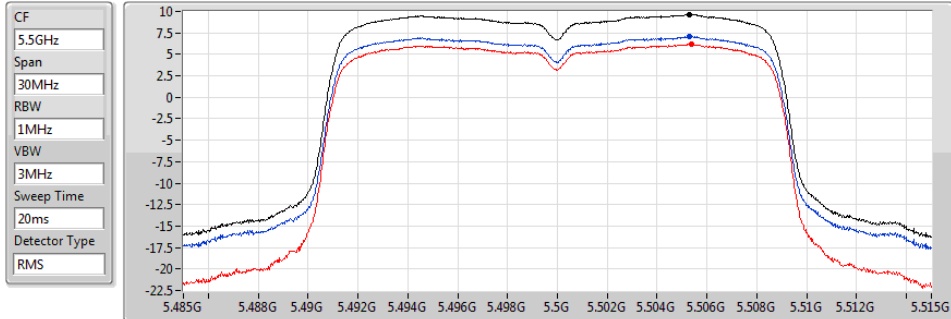
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.13	10.13	7.42	6.79

802.11a_Nss1,(6Mbps)_2TX

PSD

5500MHz

26/10/2019

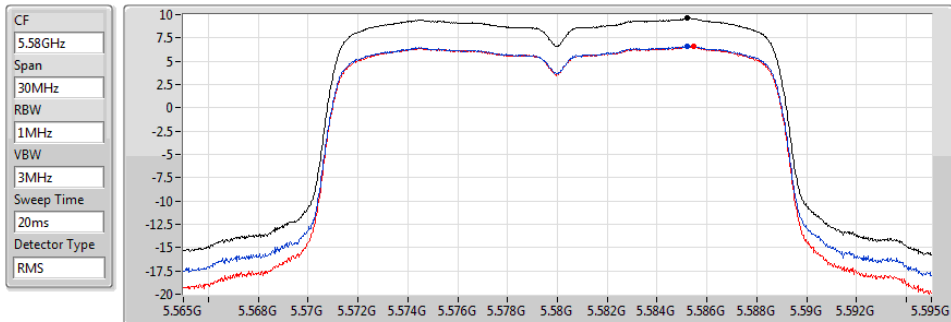


802.11a_Nss1,(6Mbps)_2TX

PSD

5580MHz

27/10/2019

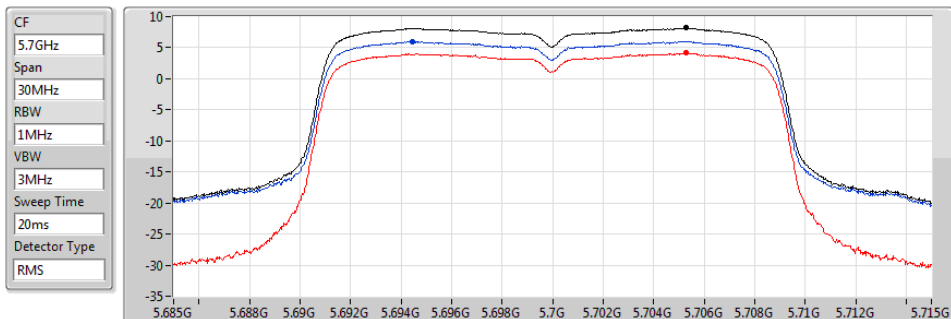


802.11a_Nss1,(6Mbps)_2TX

PSD

5700MHz

27/10/2019

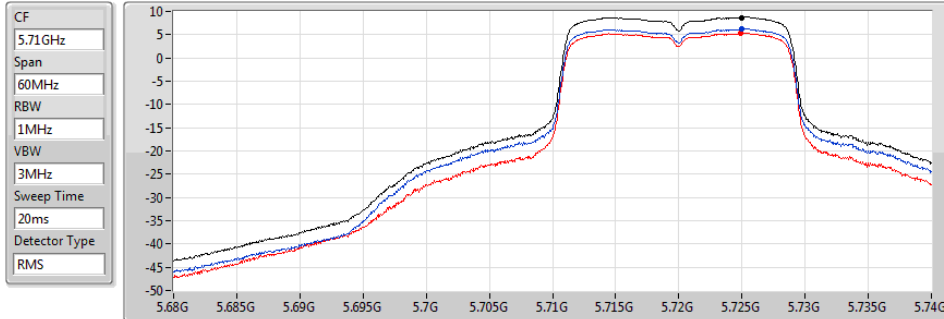


802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

27/10/2019



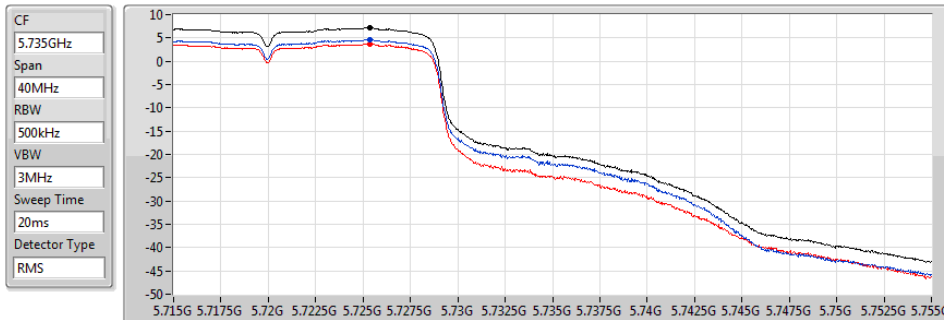
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.71	8.71	6.14	5.25

802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

27/10/2019



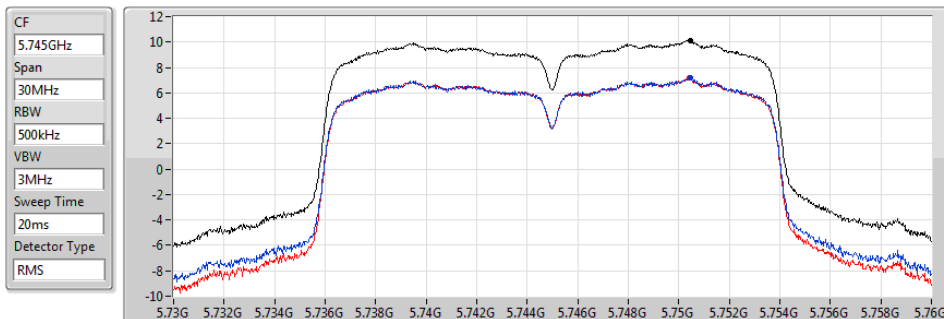
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.22	7.22	4.65	3.73

802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

27/10/2019



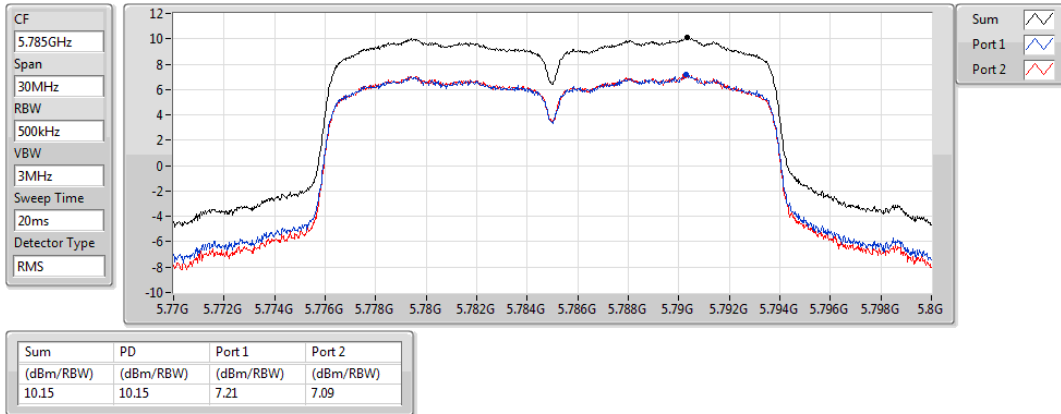
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.13	10.13	7.19	7.18

802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

27/10/2019

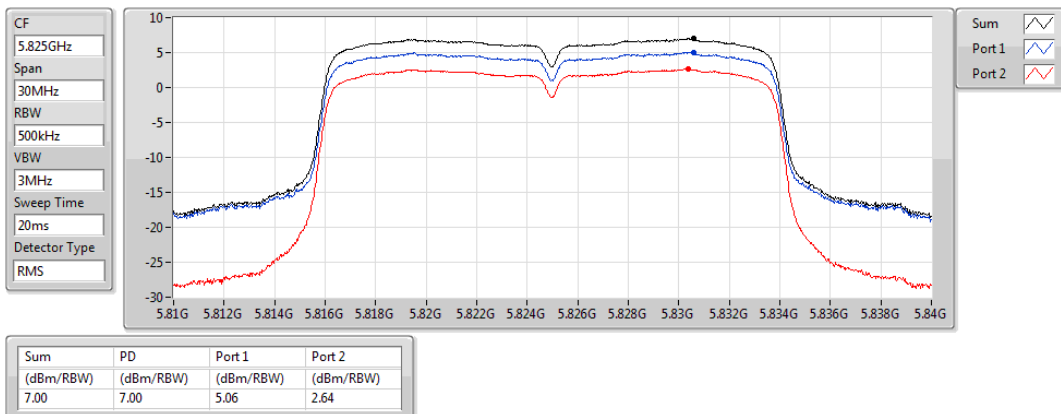


802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

27/10/2019

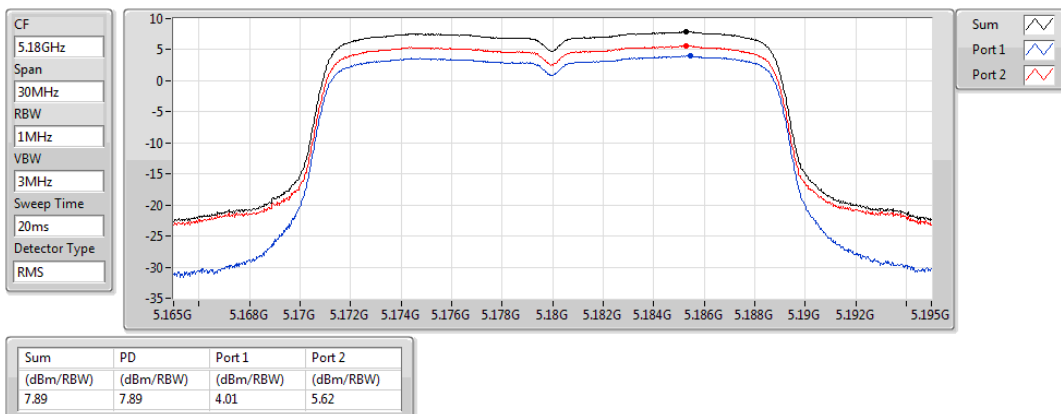


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

27/10/2019

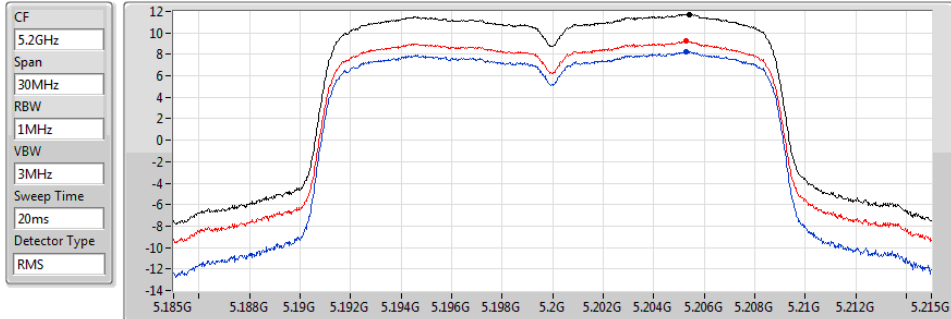


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

27/10/2019



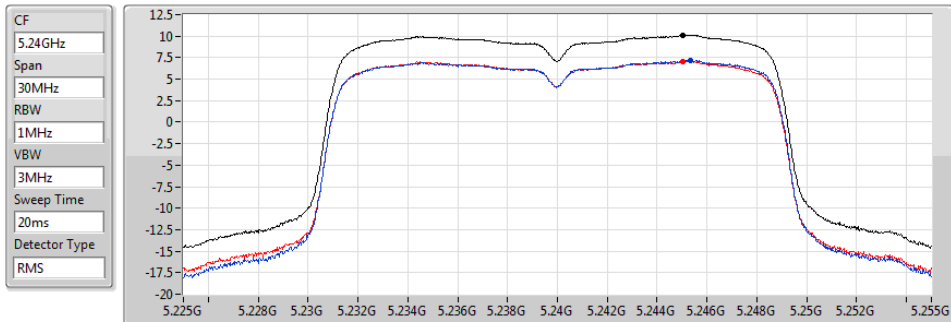
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.74	11.74	8.24	9.23

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

27/10/2019



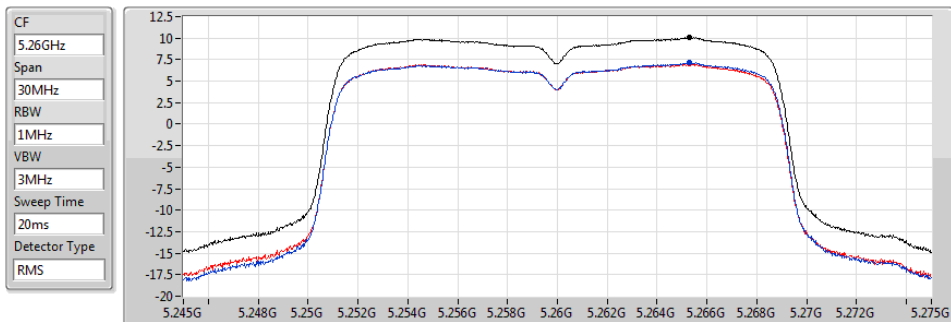
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.14	10.14	7.21	7.09

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

27/10/2019



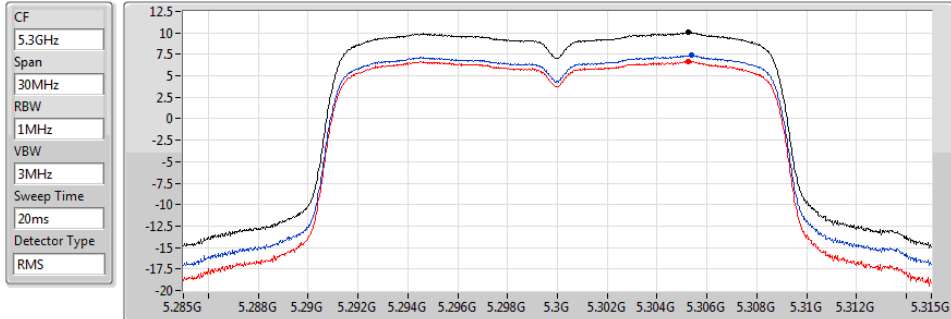
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.09	10.09	7.15	7.00

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

27/10/2019



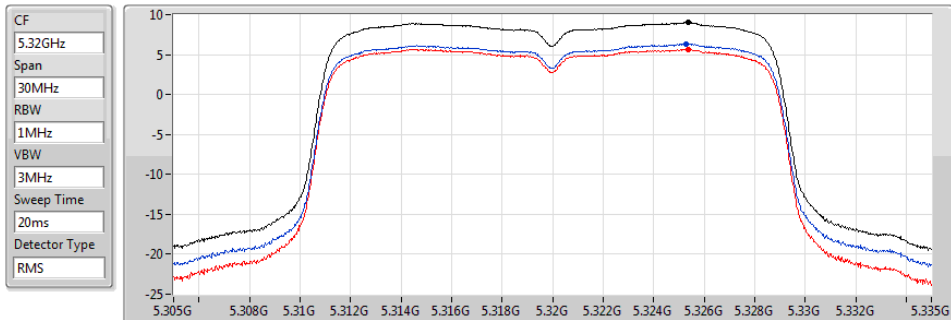
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.03	10.03	7.38	6.67

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

27/10/2019



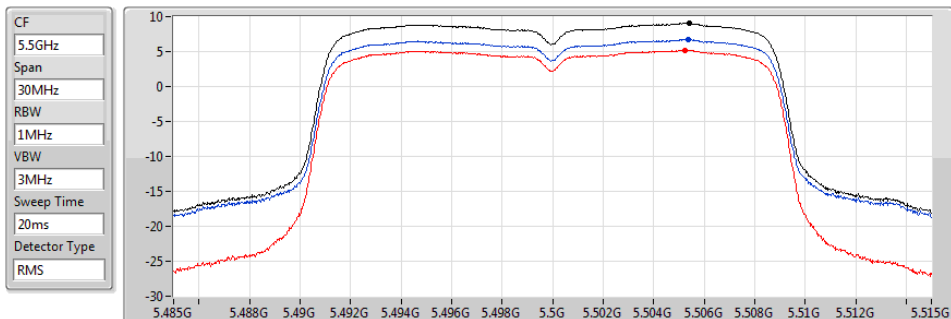
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.01	9.01	6.36	5.67

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

27/10/2019



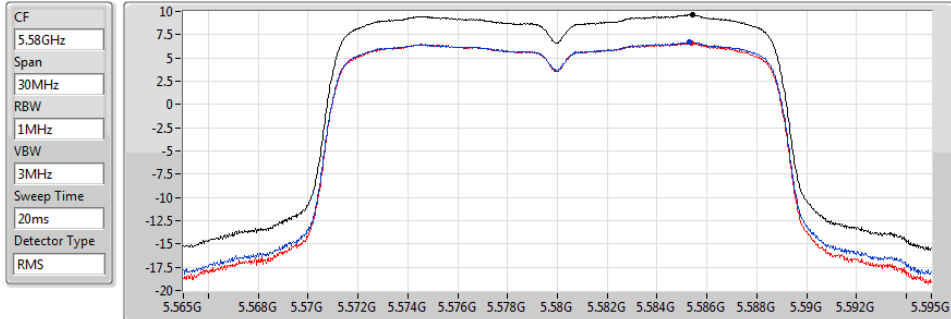
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.07	9.07	6.77	5.21

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

27/10/2019



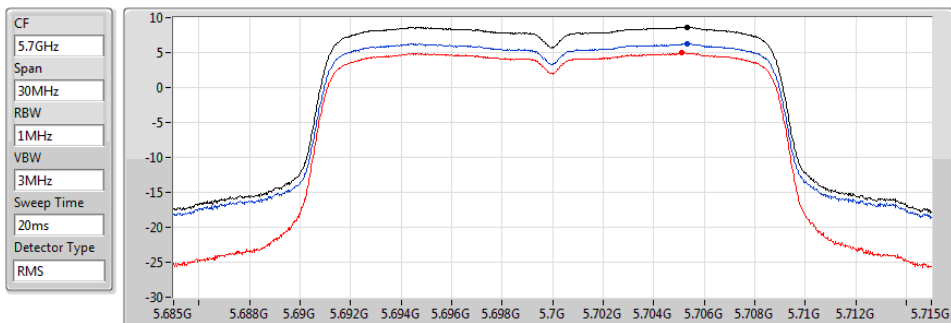
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.63	9.63	6.68	6.58

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5700MHz

27/10/2019



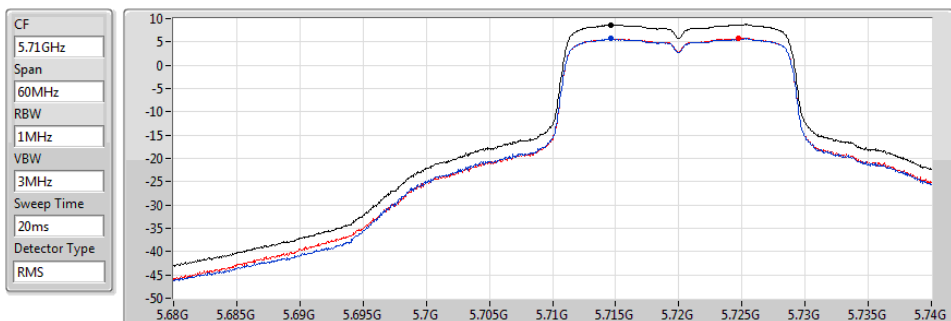
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.67	8.67	6.29	4.93

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

27/10/2019



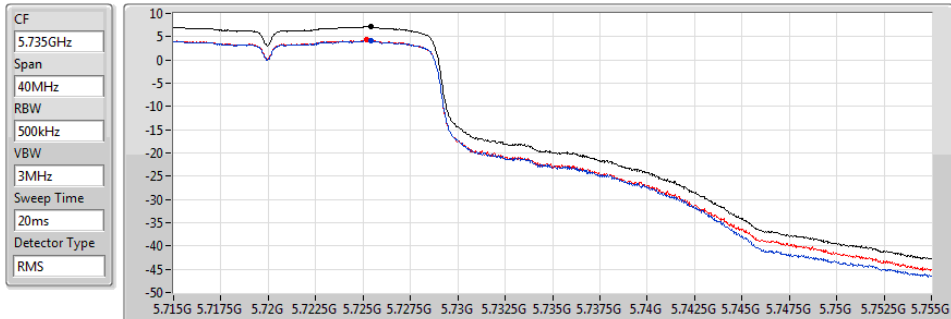
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.67	8.67	5.70	5.70

802.11ac VHT20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.725-5.85GHz

PSD

27/10/2019



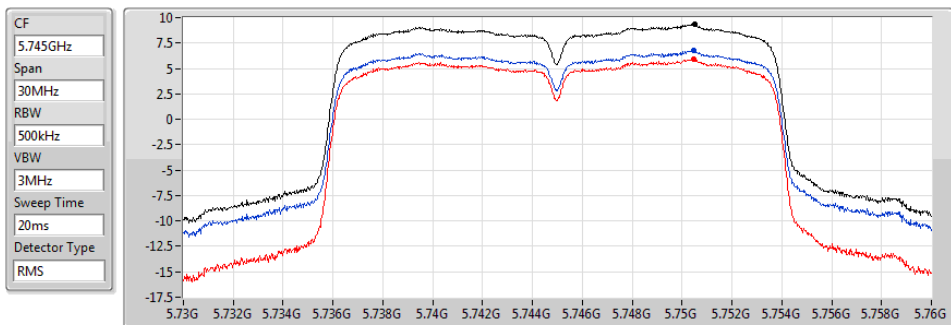
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.22	7.22	4.16	4.30

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz

PSD

27/10/2019



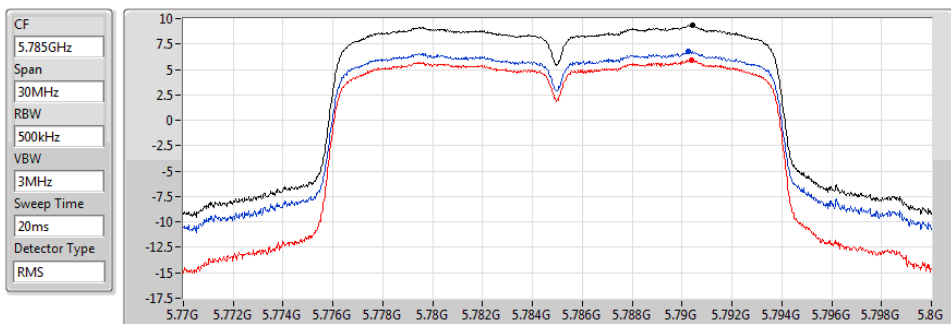
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.36	9.36	6.73	5.93

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz

PSD

27/10/2019



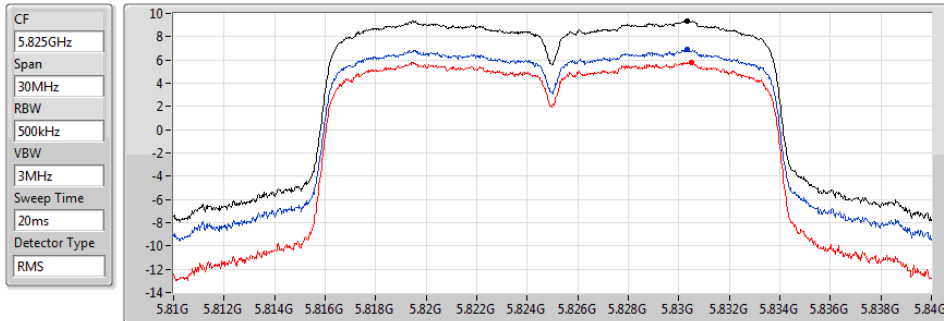
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.34	9.34	6.80	5.93

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

27/10/2019



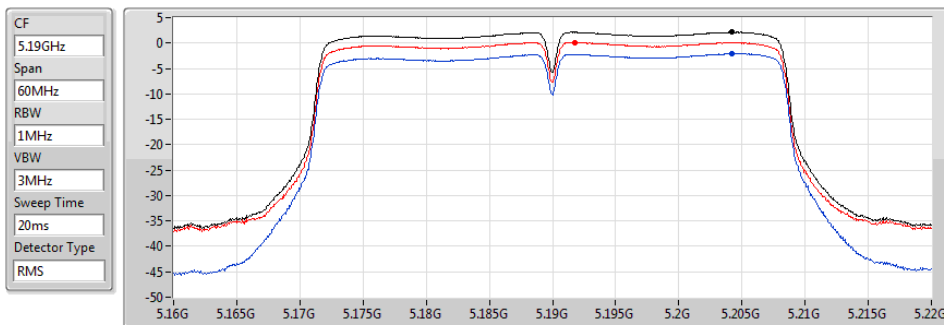
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.36	9.36	6.92	5.80

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

27/10/2019



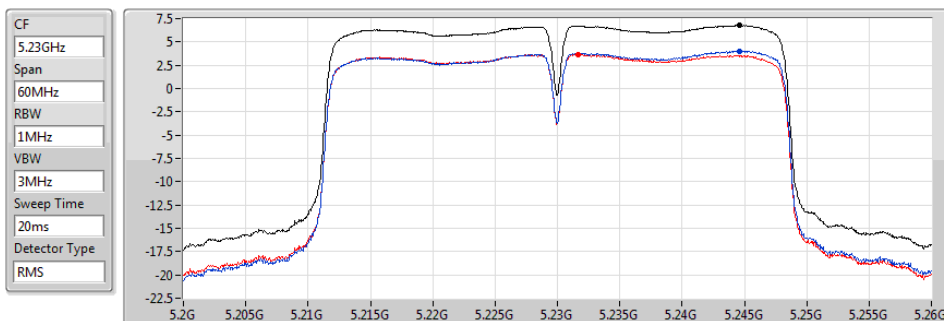
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.14	2.14	-2.05	0.15

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

27/10/2019



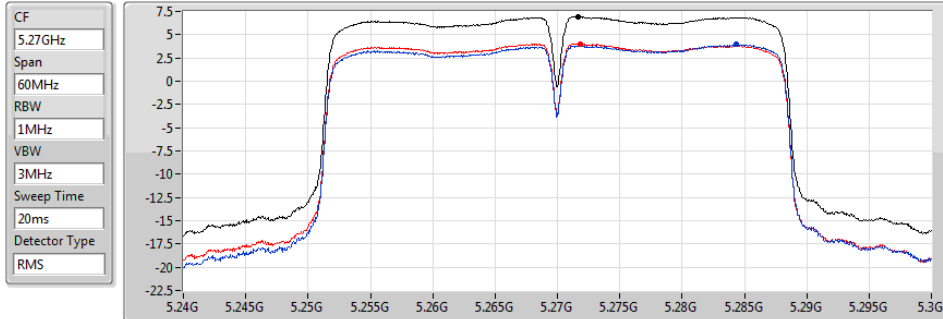
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.79	6.79	4.04	3.68

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5270MHz

27/10/2019



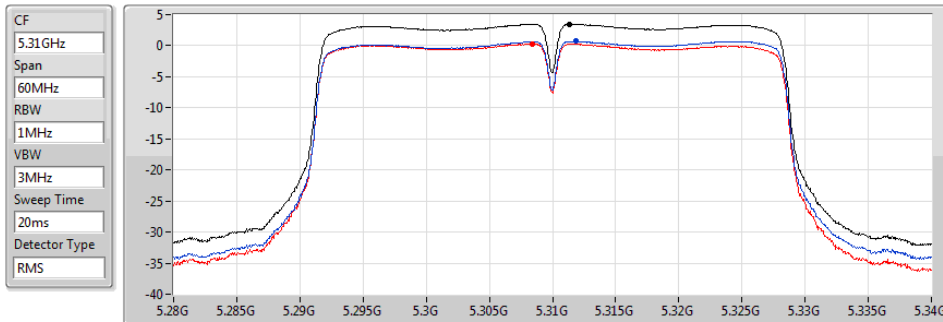
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.94	6.94	3.93	4.04

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5310MHz

27/10/2019



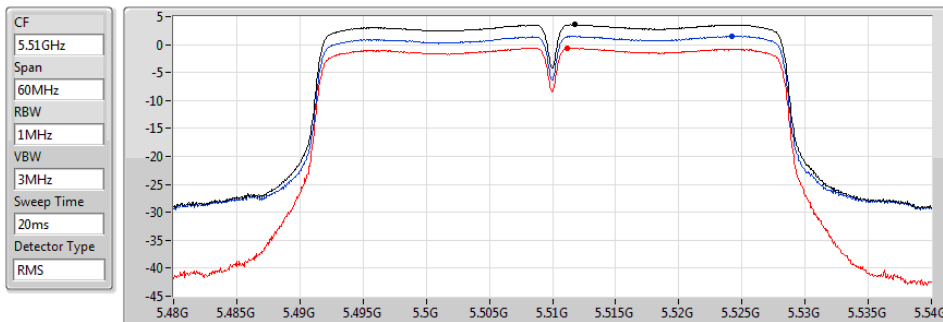
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.48	3.48	0.71	0.29

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5510MHz

27/10/2019



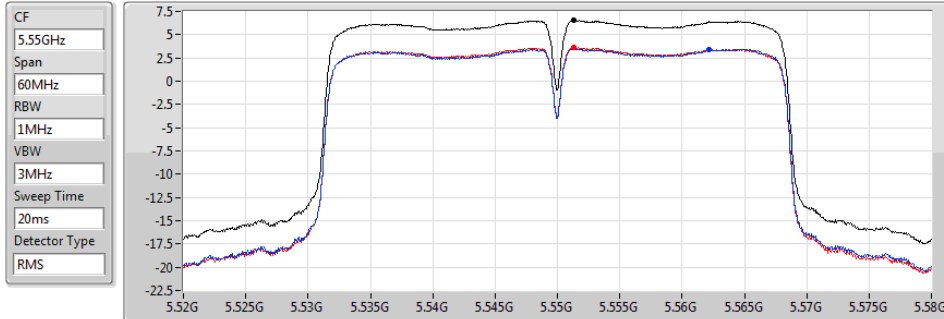
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.56	3.56	1.55	-0.61

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5550MHz

27/10/2019



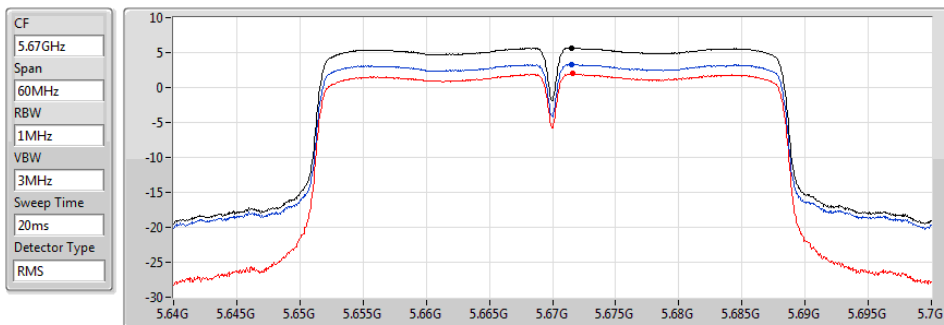
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.52	6.52	3.45	3.60

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5670MHz

27/10/2019



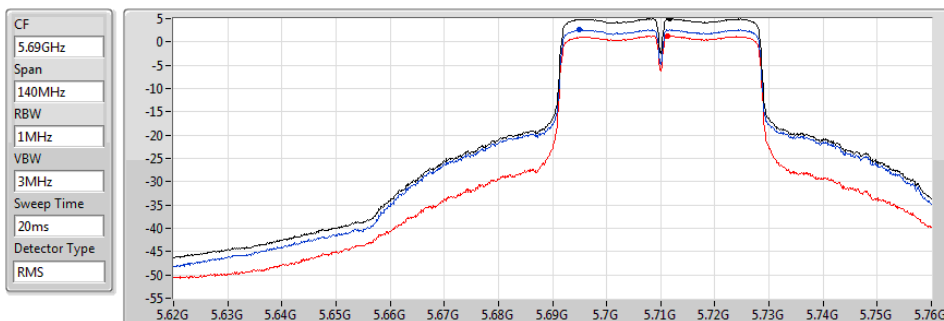
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.66	5.66	3.29	1.98

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

27/10/2019



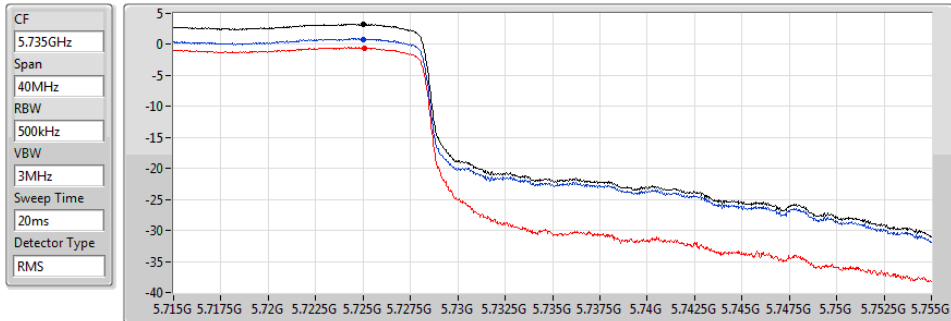
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.98	4.98	2.58	1.28

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.725-5.85GHz

27/10/2019



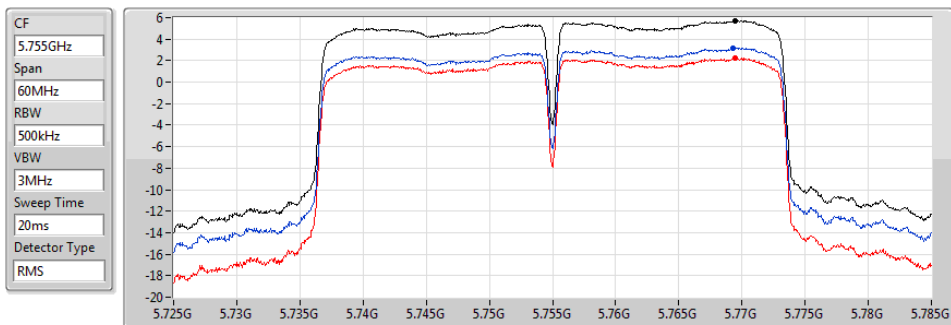
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.18	3.18	0.85	-0.59

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

27/10/2019



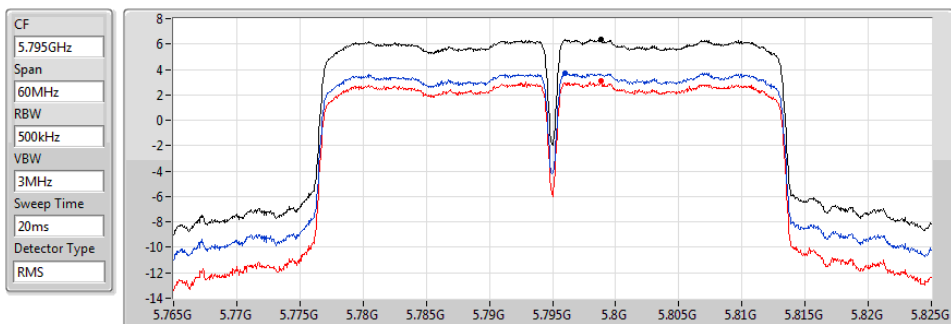
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.71	5.71	3.19	2.24

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

27/10/2019



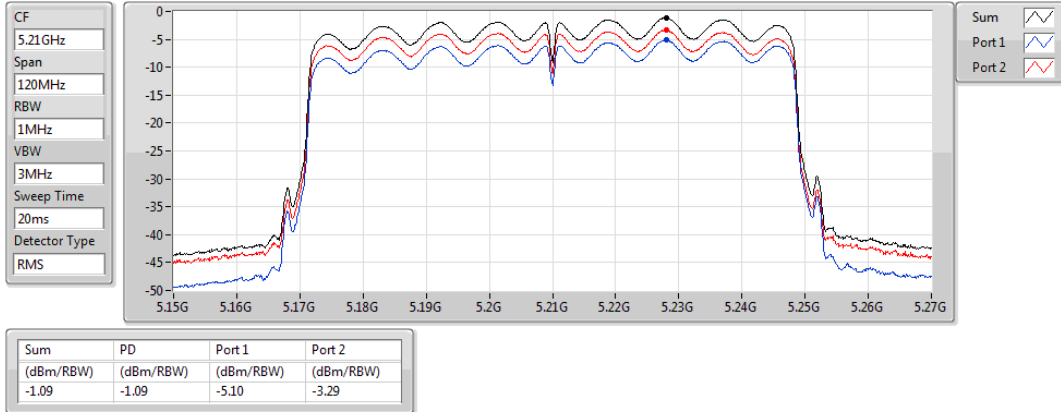
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.35	6.35	3.72	3.06

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

27/10/2019

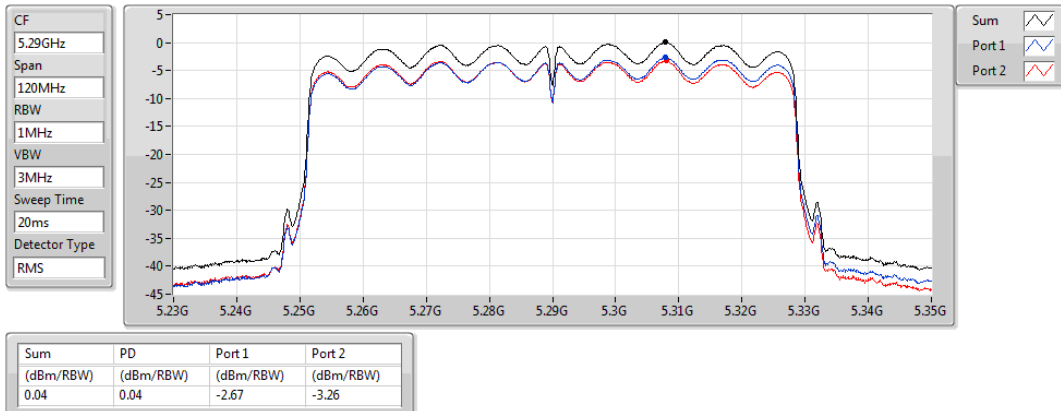


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5290MHz

27/10/2019

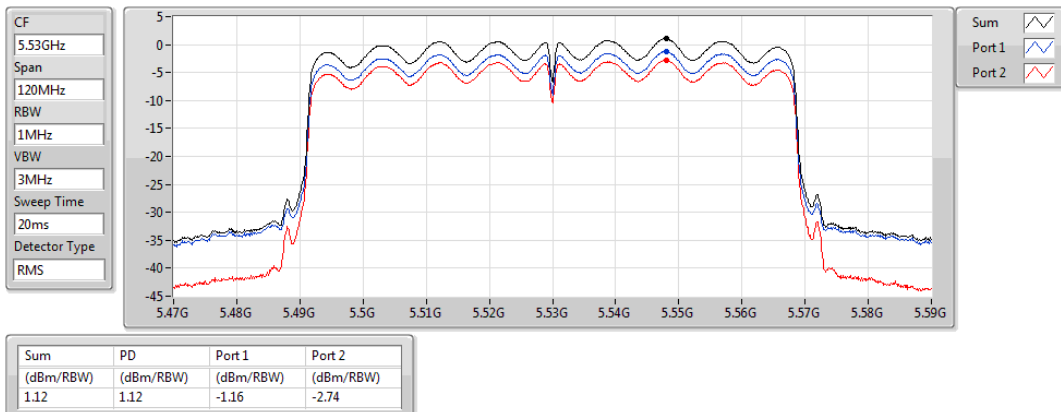


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5530MHz

27/10/2019

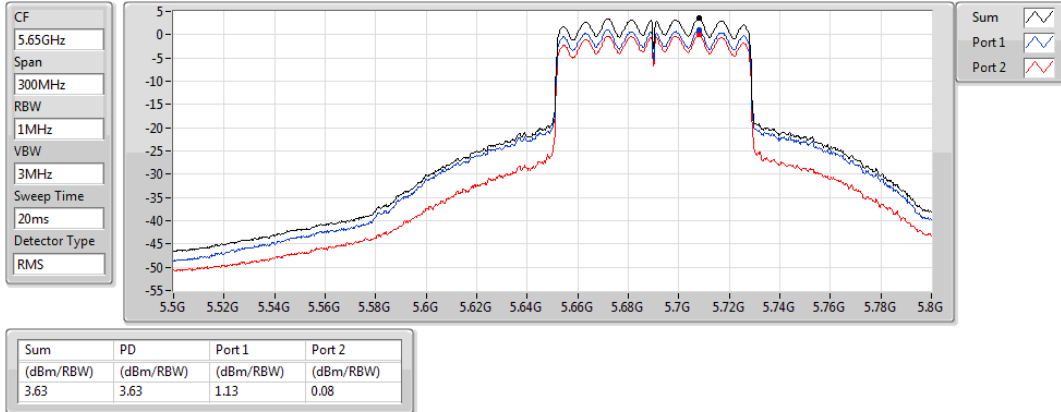


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

27/10/2019

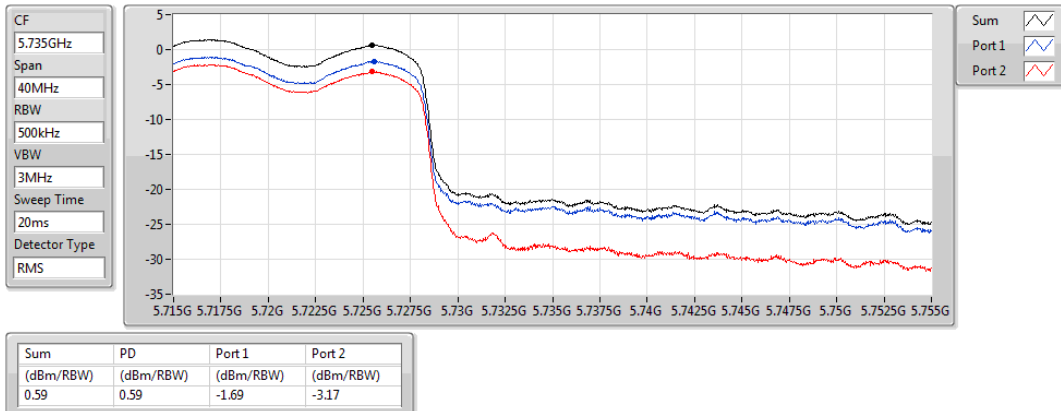


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.725-5.85GHz

27/10/2019

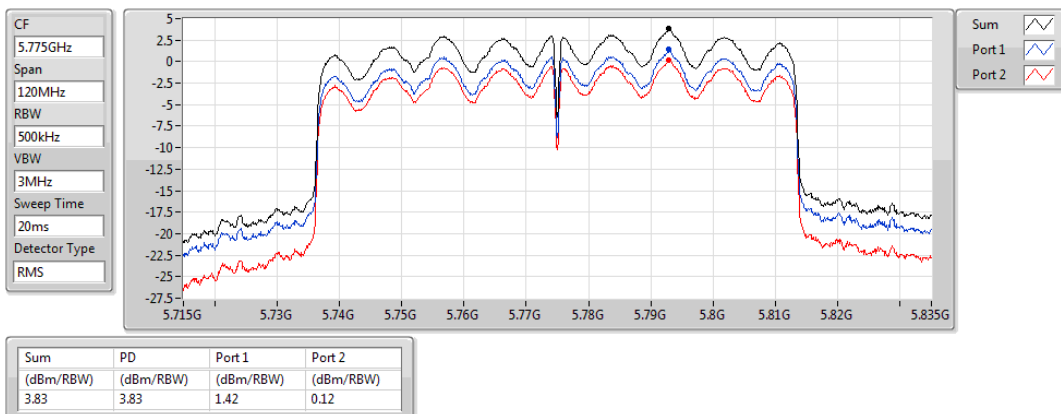


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

27/10/2019



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	12.16	18.89
802.11ac VHT20_Nss1,(MCS0)_2TX	12.23	18.96
802.11ac VHT40_Nss1,(MCS0)_2TX	6.79	13.52
802.11ac VHT80_Nss1,(MCS0)_2TX	-1.61	5.12
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.13	16.86
802.11ac VHT20_Nss1,(MCS0)_2TX	10.09	16.82
802.11ac VHT40_Nss1,(MCS0)_2TX	6.94	13.67
802.11ac VHT80_Nss1,(MCS0)_2TX	-3.37	3.36
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.67	16.40
802.11ac VHT20_Nss1,(MCS0)_2TX	9.63	16.36
802.11ac VHT40_Nss1,(MCS0)_2TX	6.52	13.25
802.11ac VHT80_Nss1,(MCS0)_2TX	3.63	10.36
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.12	16.85
802.11ac VHT20_Nss1,(MCS0)_2TX	10.07	16.80
802.11ac VHT40_Nss1,(MCS0)_2TX	5.80	12.53
802.11ac VHT80_Nss1,(MCS0)_2TX	2.47	9.20

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)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.73	5.66	7.32	9.57	16.27	16.30	23.00
5200MHz	Pass	6.73	9.05	9.34	12.16	16.27	18.89	23.00
5240MHz	Pass	6.73	6.79	7.25	10.02	16.27	16.75	23.00
5260MHz	Pass	6.73	6.77	6.30	9.54	10.27	16.27	17.00
5300MHz	Pass	6.73	7.17	6.47	9.83	10.27	16.56	17.00
5320MHz	Pass	6.73	7.42	6.79	10.13	10.27	16.86	17.00
5500MHz	Pass	6.73	7.10	6.20	9.67	10.27	16.40	17.00
5580MHz	Pass	6.73	6.63	6.56	9.60	10.27	16.33	17.00
5700MHz	Pass	6.73	6.33	5.38	8.89	10.27	15.62	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.73	6.14	5.25	8.71	10.27	15.44	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.73	4.65	3.73	7.22	29.27	13.95	36.00
5745MHz	Pass	6.73	7.48	6.75	10.12	29.27	16.85	36.00
5785MHz	Pass	6.73	6.29	5.06	8.71	29.27	15.44	36.00
5825MHz	Pass	6.73	5.07	3.15	7.20	29.27	13.93	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	6.73	5.81	7.43	9.71	16.27	16.44	23.00
5200MHz	Pass	6.73	9.09	9.38	12.23	16.27	18.96	23.00
5240MHz	Pass	6.73	7.21	7.09	10.14	16.27	16.87	23.00
5260MHz	Pass	6.73	7.15	7.00	10.09	10.27	16.82	17.00
5300MHz	Pass	6.73	7.38	6.67	10.03	10.27	16.76	17.00
5320MHz	Pass	6.73	6.93	6.24	9.60	10.27	16.33	17.00
5500MHz	Pass	6.73	5.24	3.15	7.33	10.27	14.06	17.00
5580MHz	Pass	6.73	6.68	6.58	9.63	10.27	16.36	17.00
5700MHz	Pass	6.73	3.37	0.86	5.30	10.27	12.03	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	6.73	5.70	5.70	8.67	10.27	15.40	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.73	4.16	4.30	7.22	29.27	13.95	36.00
5745MHz	Pass	6.73	7.48	6.74	10.07	29.27	16.80	36.00
5785MHz	Pass	6.73	7.42	6.37	9.93	29.27	16.66	36.00
5825MHz	Pass	6.73	5.69	3.58	7.77	29.27	14.50	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	6.73	0.01	1.94	4.05	16.27	10.78	23.00
5230MHz	Pass	6.73	4.04	3.68	6.79	16.27	13.52	23.00
5270MHz	Pass	6.73	3.93	4.04	6.94	10.27	13.67	17.00
5310MHz	Pass	6.73	0.71	0.29	3.48	10.27	10.21	17.00
5510MHz	Pass	6.73	1.55	-0.61	3.56	10.27	10.29	17.00
5550MHz	Pass	6.73	3.45	3.60	6.52	10.27	13.25	17.00
5670MHz	Pass	6.73	3.29	1.98	5.66	10.27	12.39	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	6.73	2.58	1.28	4.98	10.27	11.71	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.73	0.85	-0.59	3.18	29.27	9.91	36.00
5755MHz	Pass	6.73	3.19	2.24	5.71	29.27	12.44	36.00
5795MHz	Pass	6.73	3.36	2.16	5.80	29.27	12.53	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	6.73	-5.24	-4.06	-1.61	16.27	5.12	23.00

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)
5290MHz	Pass	6.73	-6.53	-6.20	-3.37	10.27	3.36	17.00
5530MHz	Pass	6.73	-2.94	-4.72	-0.73	10.27	6.00	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	6.73	1.13	0.08	3.63	10.27	10.36	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.73	-1.69	-3.17	0.59	29.27	7.32	36.00
5775MHz	Pass	6.73	0.38	-1.58	2.47	29.27	9.20	36.00

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

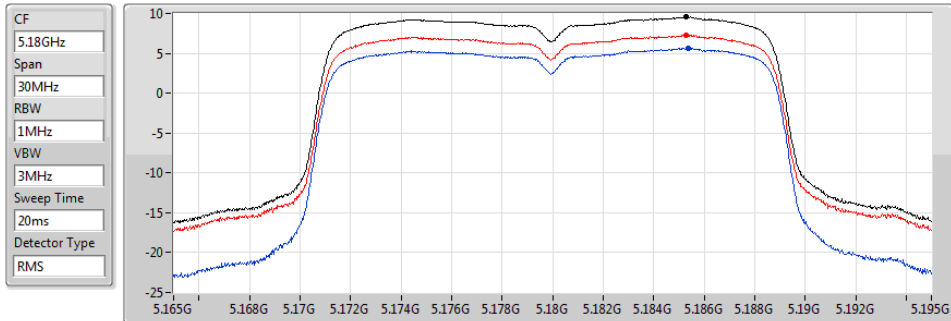
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

26/10/2019



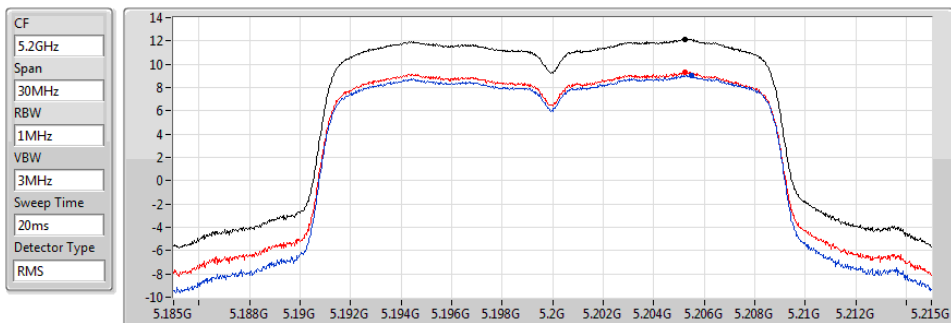
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.57	9.57	5.66	7.32

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

26/10/2019



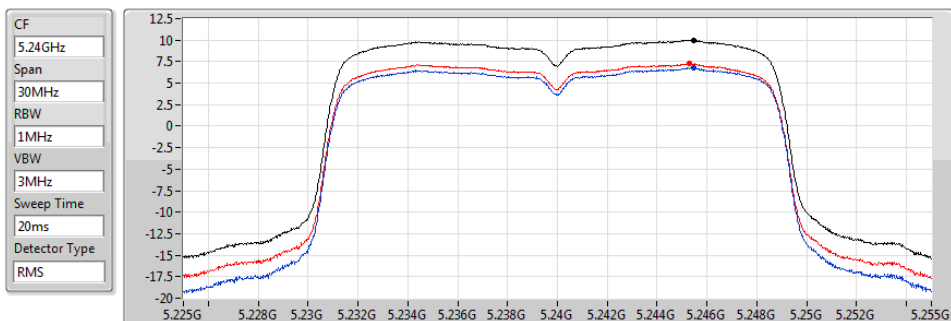
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
12.16	12.16	9.05	9.34

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

26/10/2019



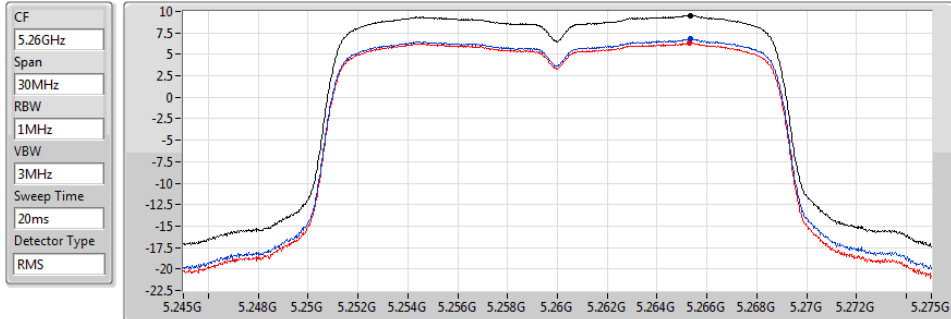
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
10.02	10.02	6.79	7.25

802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

26/10/2019



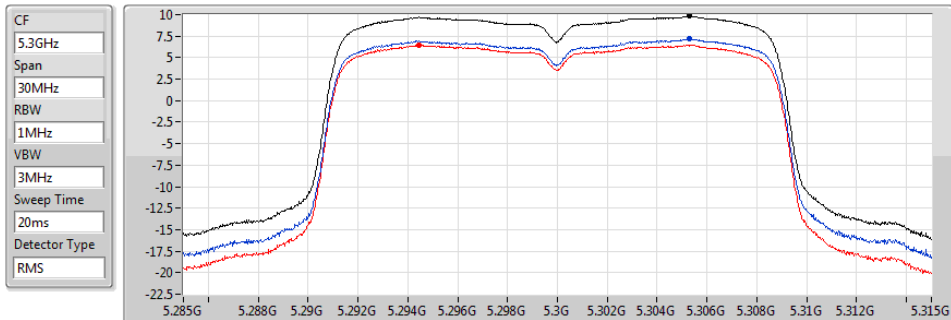
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.54	9.54	6.77	6.30

802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

26/10/2019



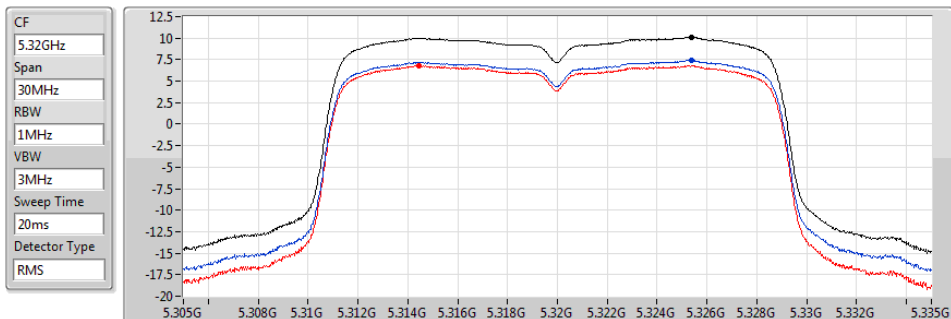
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.83	9.83	7.17	6.47

802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

26/10/2019



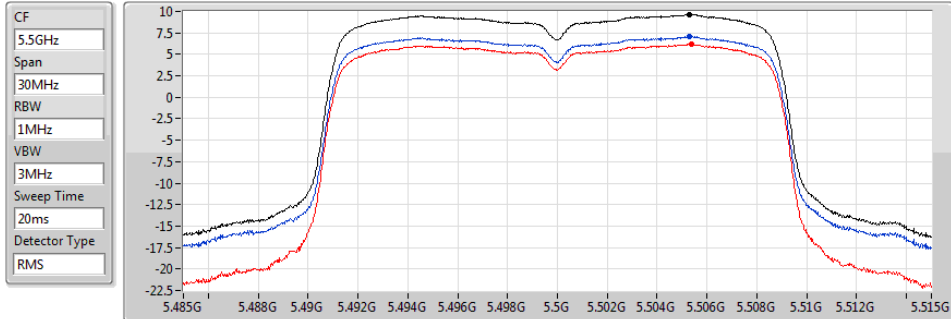
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.13	10.13	7.42	6.79

802.11a_Nss1,(6Mbps)_2TX

PSD

5500MHz

26/10/2019

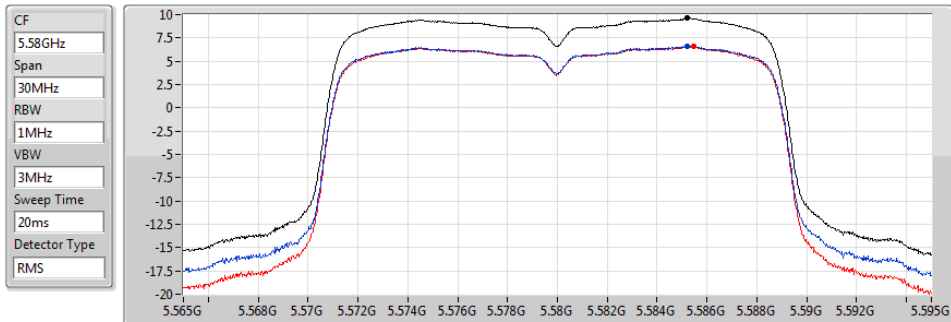


802.11a_Nss1,(6Mbps)_2TX

PSD

5580MHz

27/10/2019

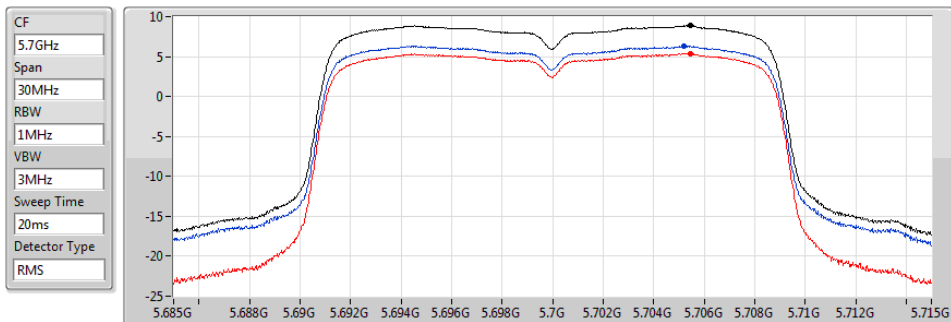


802.11a_Nss1,(6Mbps)_2TX

PSD

5700MHz

27/10/2019

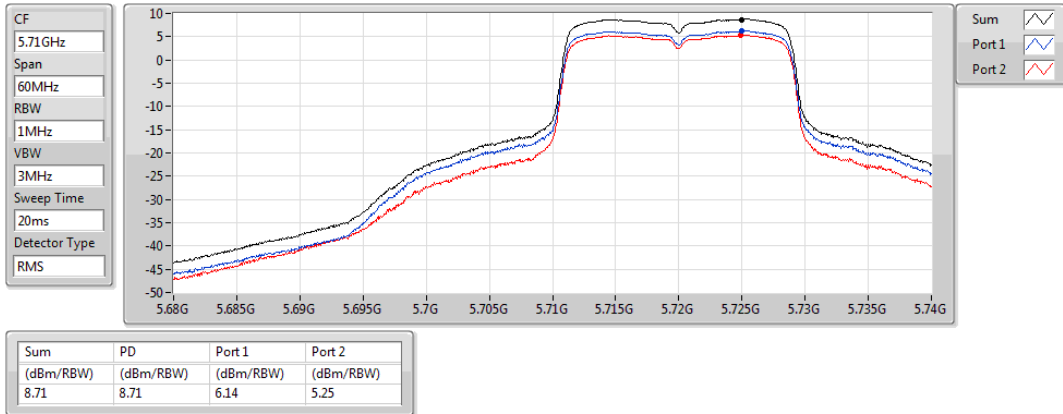


802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

27/10/2019

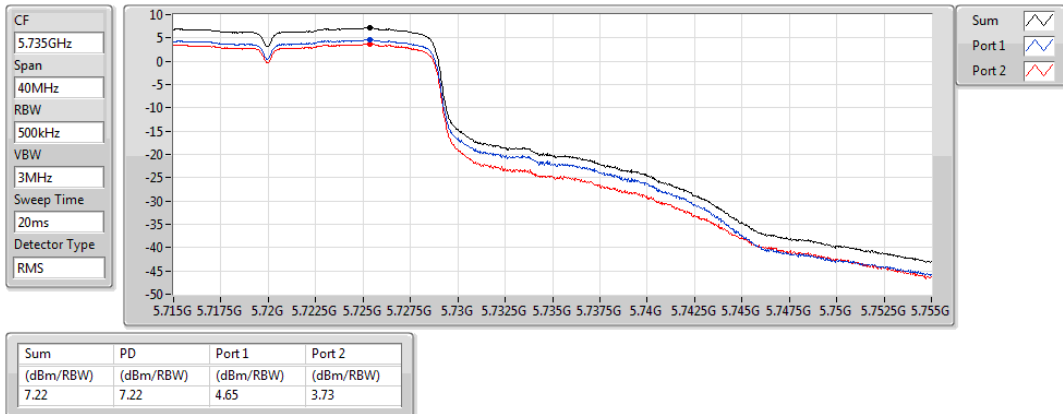


802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

27/10/2019

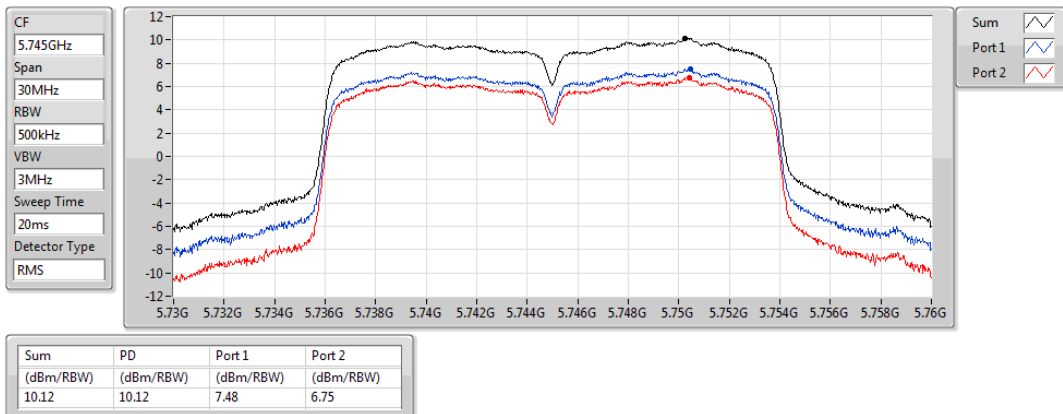


802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

27/10/2019

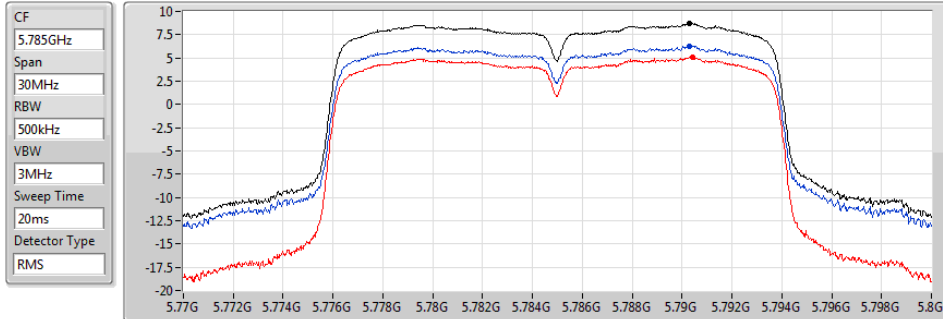


802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

27/10/2019



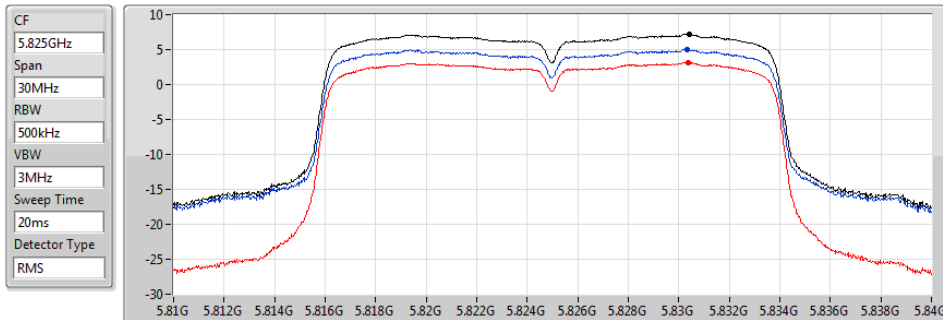
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.71	8.71	6.29	5.06

802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

27/10/2019



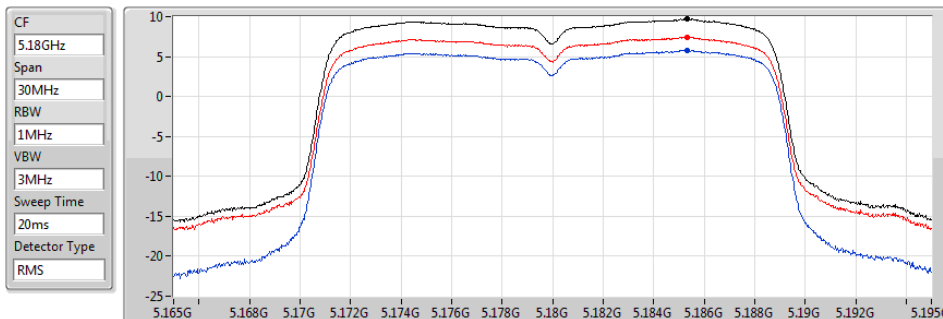
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.20	7.20	5.07	3.15

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

27/10/2019



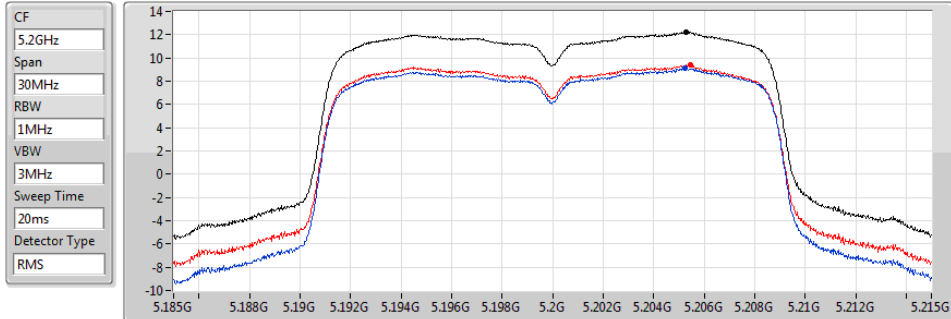
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.71	9.71	5.81	7.43

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

27/10/2019



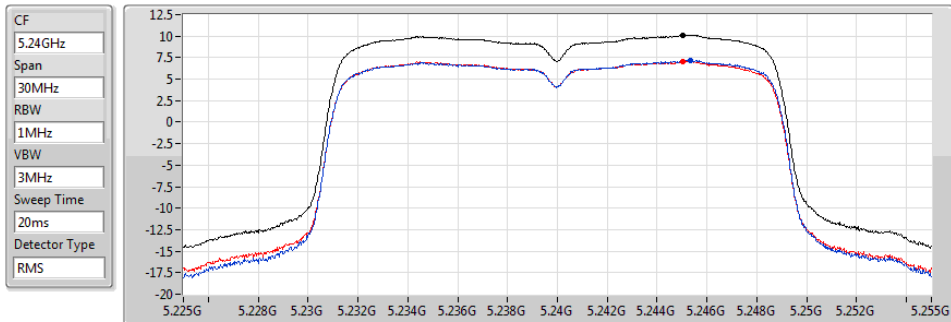
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.23	12.23	9.09	9.38

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

27/10/2019



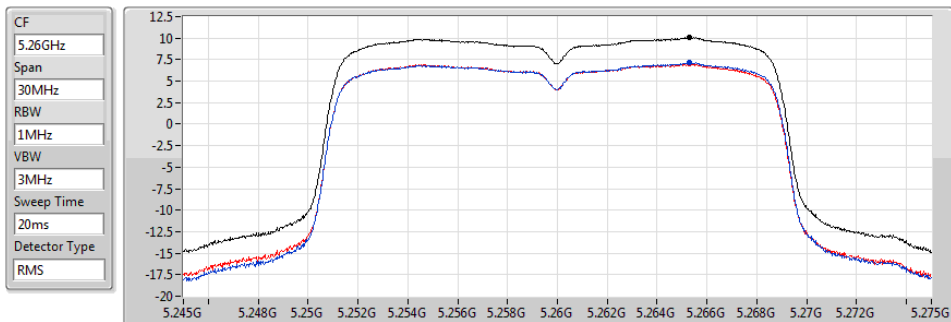
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.14	10.14	7.21	7.09

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

27/10/2019



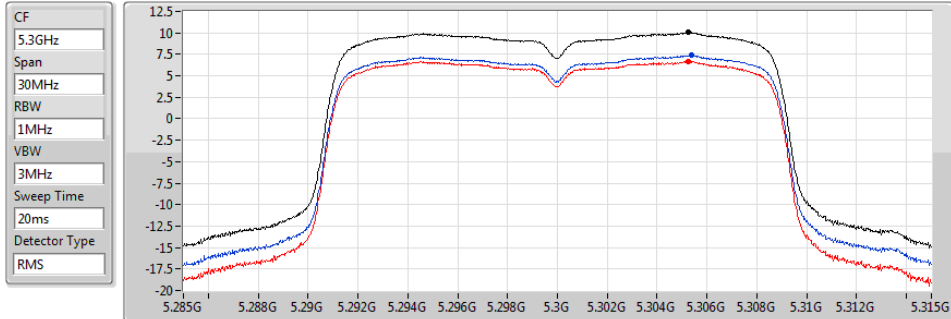
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.09	10.09	7.15	7.00

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

27/10/2019



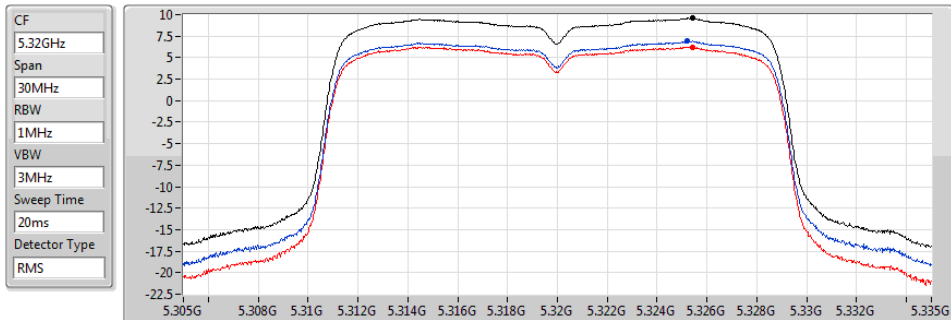
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.03	10.03	7.38	6.67

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

27/10/2019



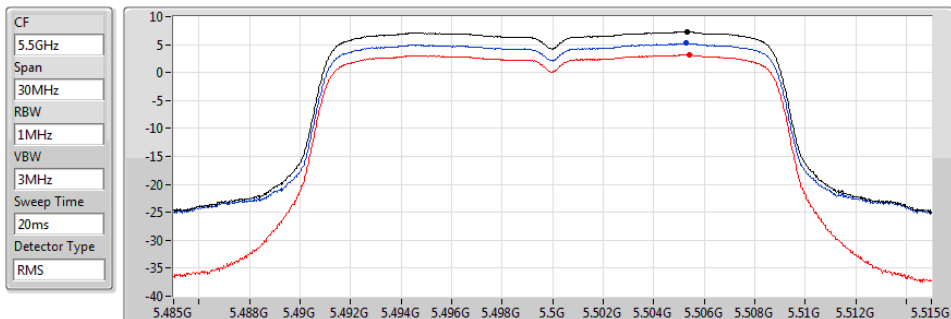
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.60	9.60	6.93	6.24

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

27/10/2019



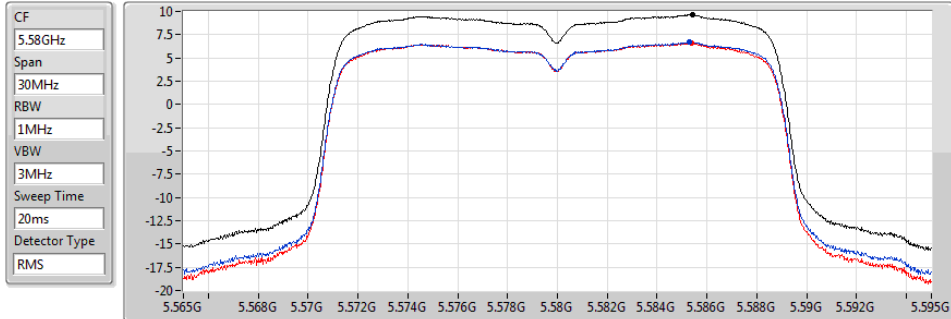
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.33	7.33	5.24	3.15

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

27/10/2019



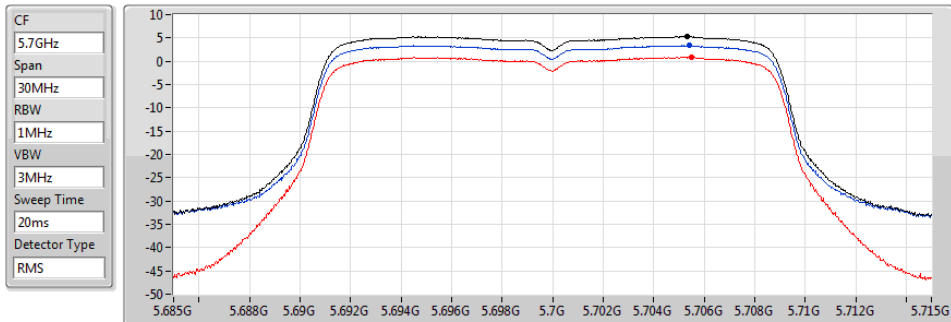
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.63	9.63	6.68	6.58

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5700MHz

27/10/2019



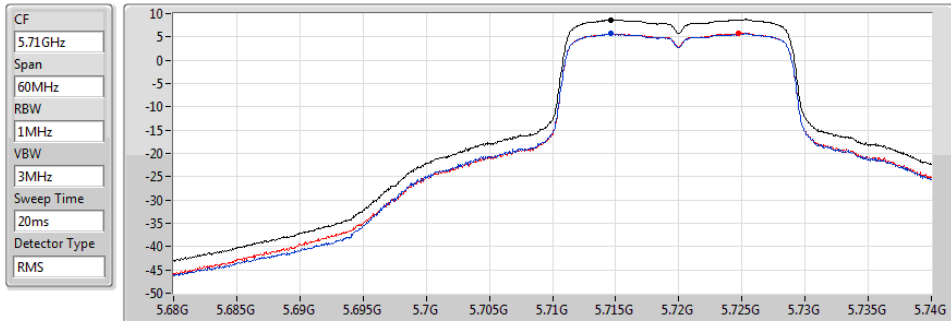
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.30	5.30	3.37	0.86

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

27/10/2019



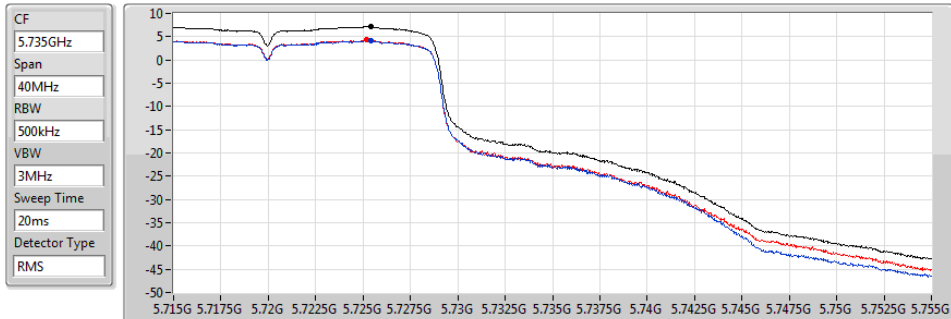
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.67	8.67	5.70	5.70

802.11ac VHT20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.725-5.85GHz

PSD

27/10/2019



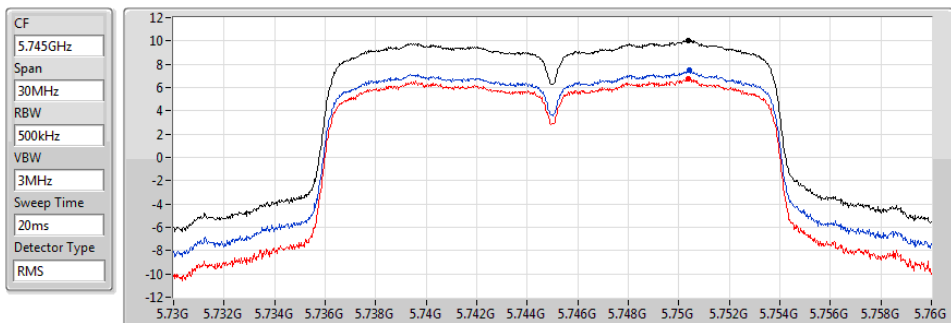
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.22	7.22	4.16	4.30

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz

PSD

27/10/2019



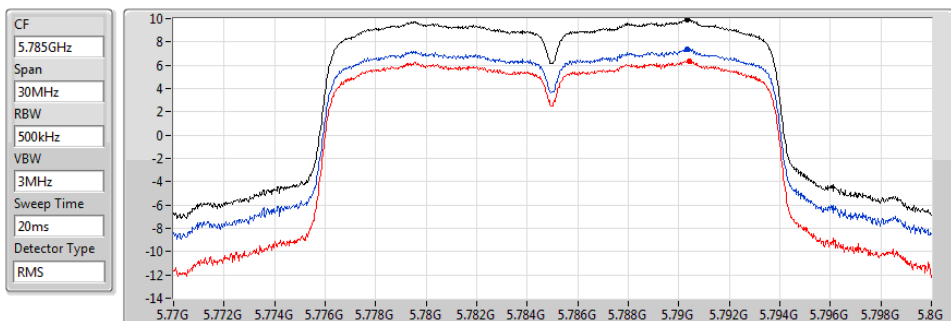
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.07	10.07	7.48	6.74

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz

PSD

27/10/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.93	9.93	7.42	6.37

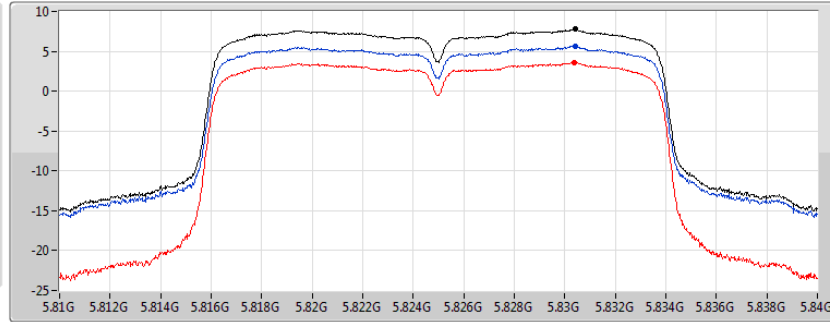
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

27/10/2019

CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.77	7.77	5.69	3.58

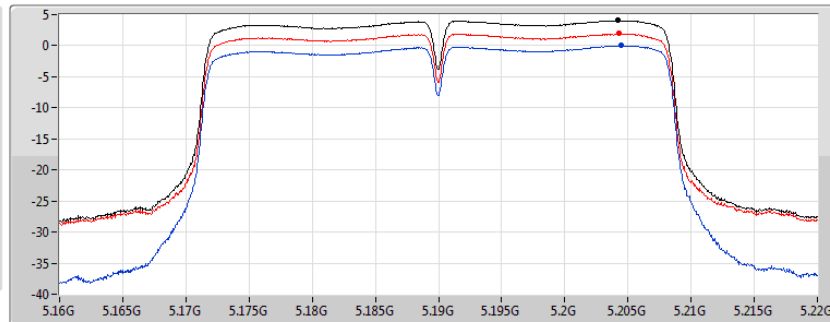
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

27/10/2019

CF
5.19GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.05	4.05	0.01	1.94

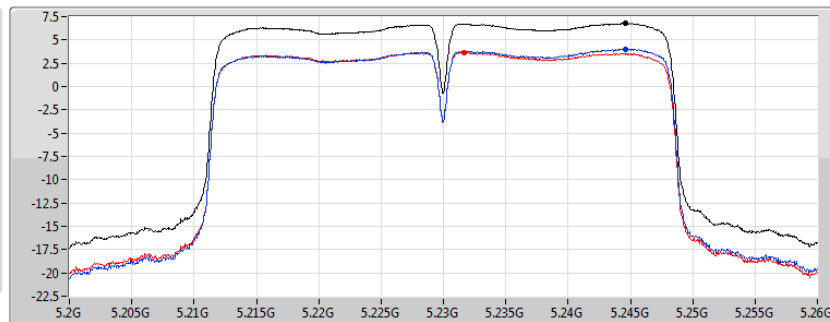
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

27/10/2019

CF
5.23GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum
Port 1
Port 2

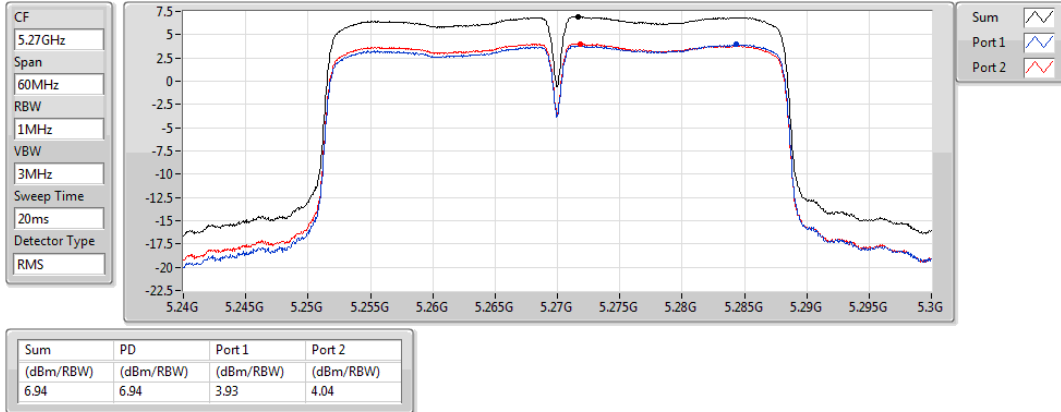
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.79	6.79	4.04	3.68

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5270MHz

27/10/2019

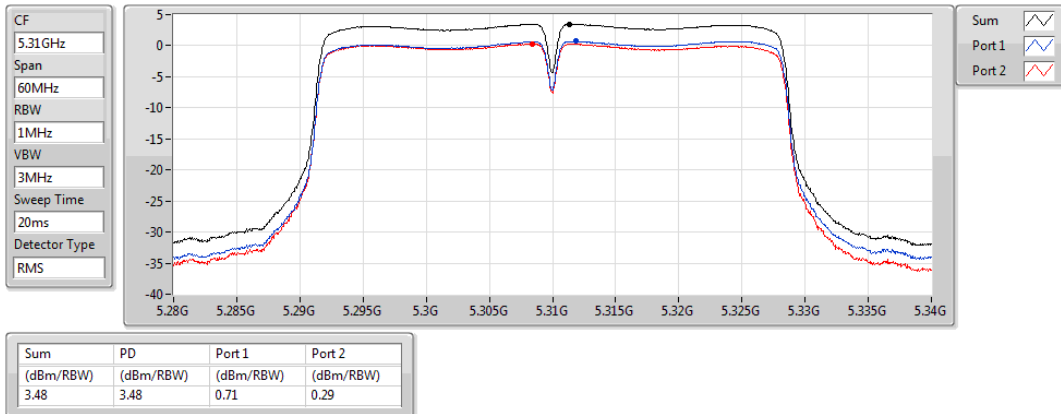


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5310MHz

27/10/2019

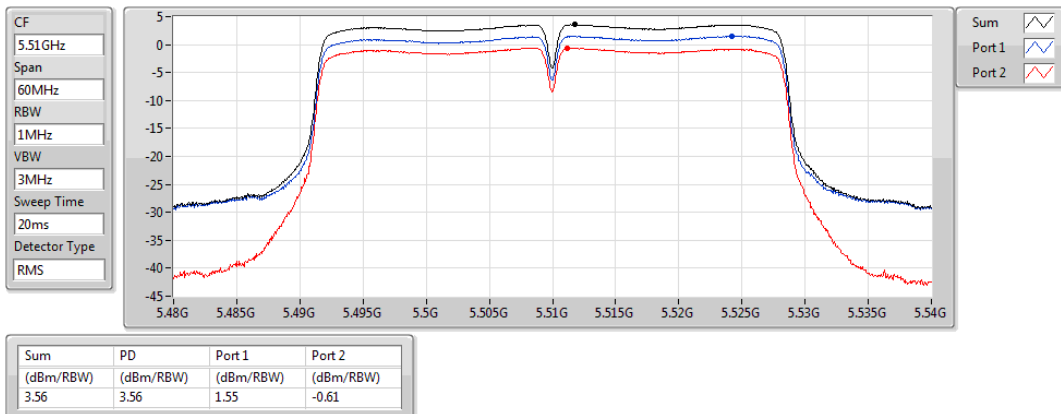


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5510MHz

27/10/2019

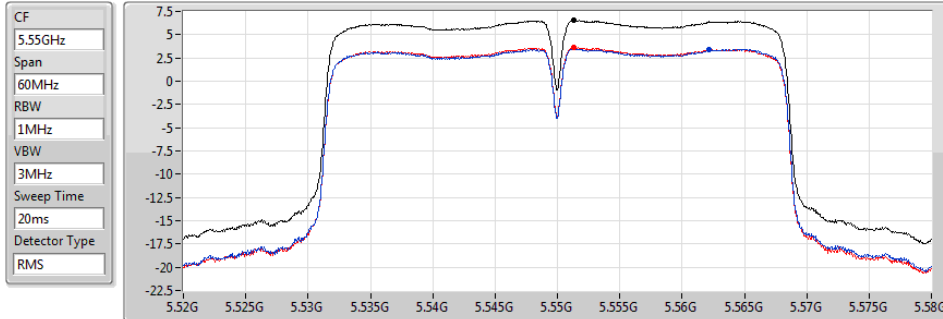


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5550MHz

27/10/2019



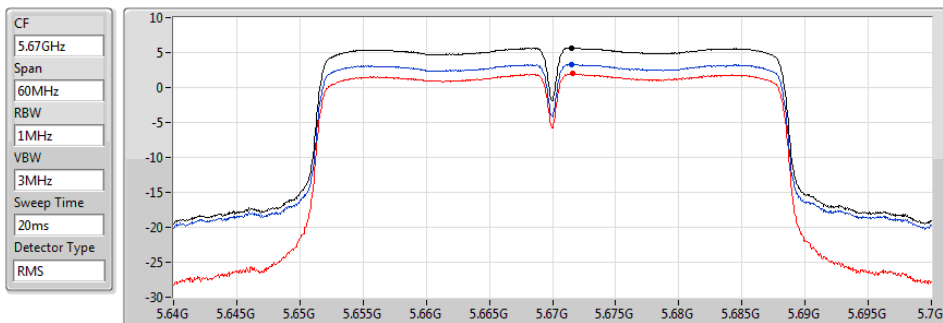
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.52	6.52	3.45	3.60

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5670MHz

27/10/2019



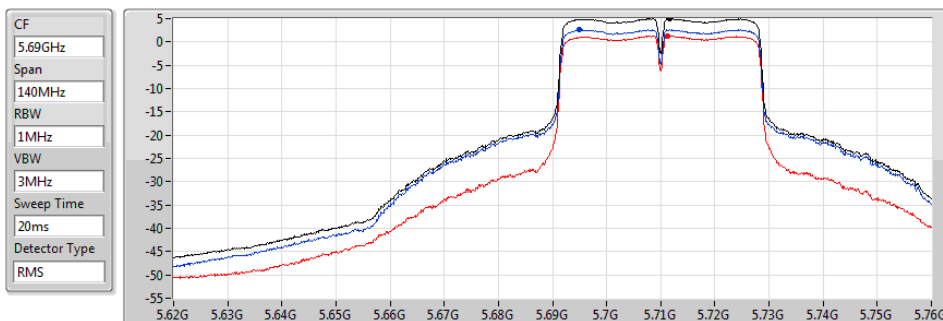
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.66	5.66	3.29	1.98

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

27/10/2019



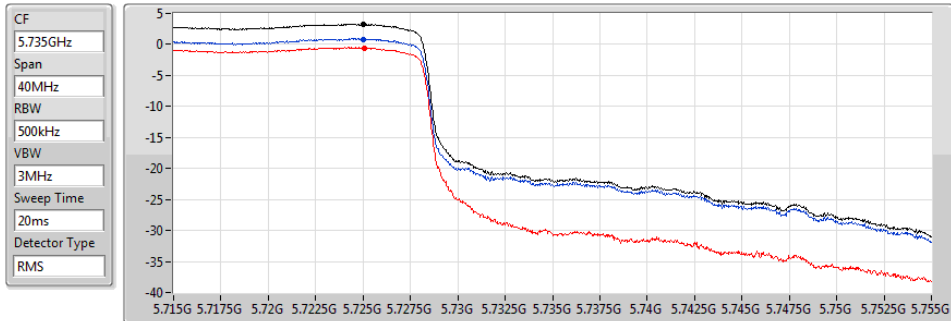
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.98	4.98	2.58	1.28

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.725-5.85GHz

27/10/2019



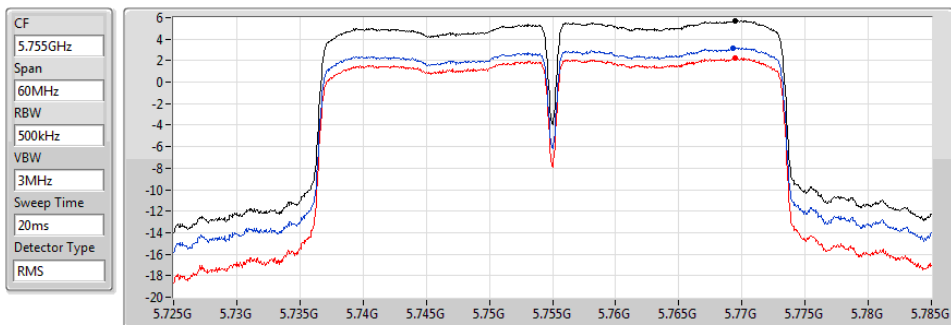
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.18	3.18	0.85	-0.59

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

27/10/2019



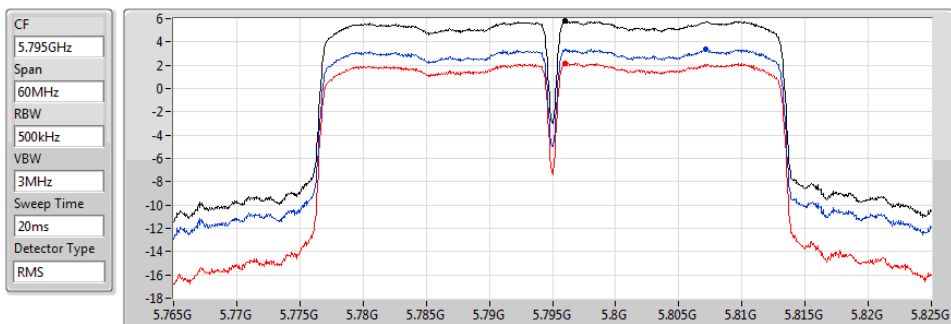
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.71	5.71	3.19	2.24

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

27/10/2019



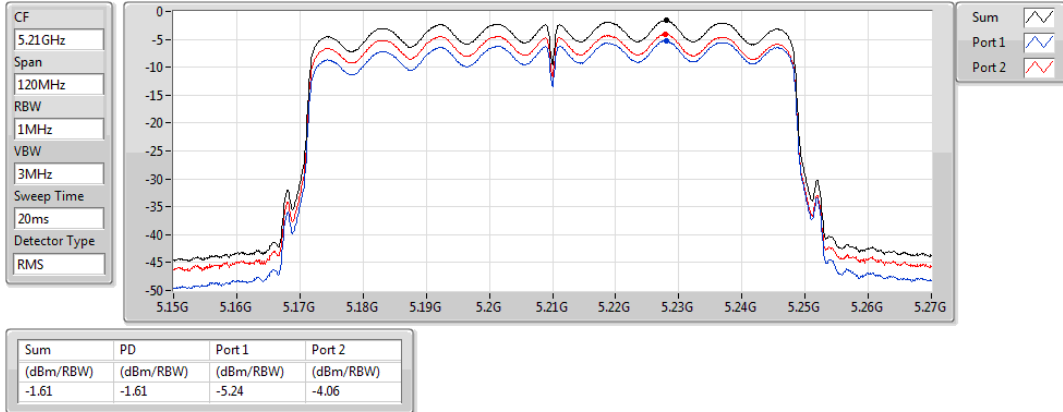
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.80	5.80	3.36	2.16

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

27/10/2019

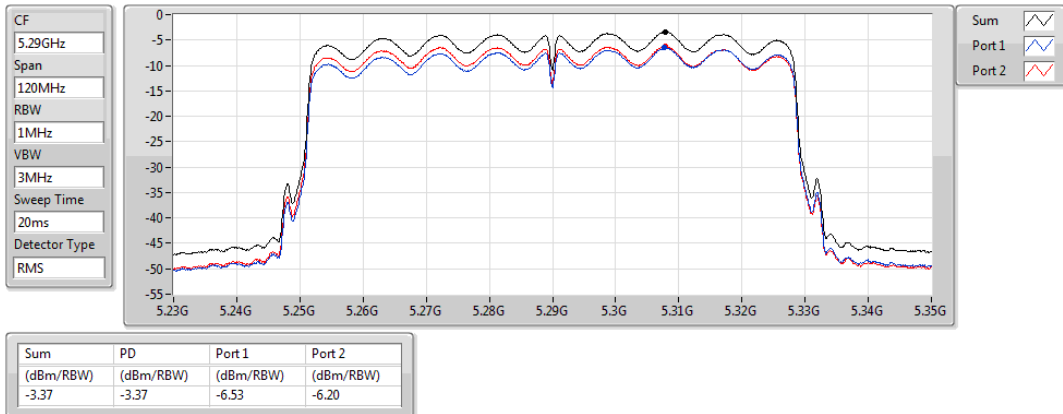


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5290MHz

27/10/2019

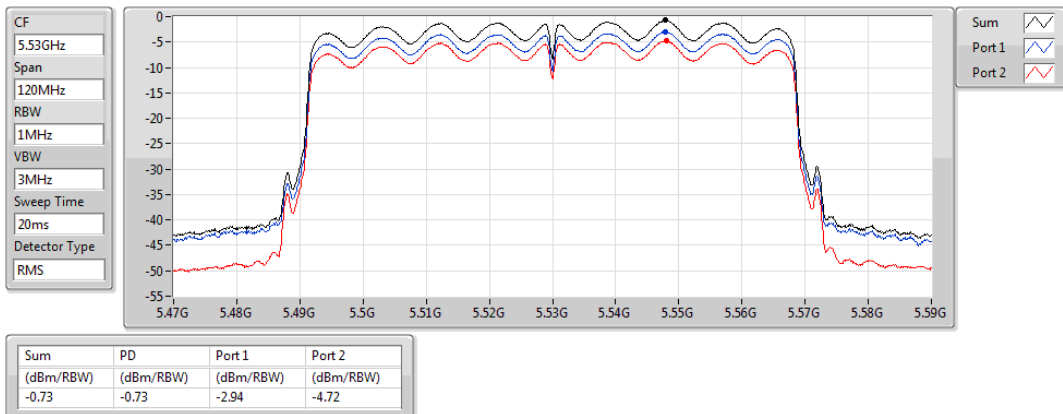


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5530MHz

27/10/2019

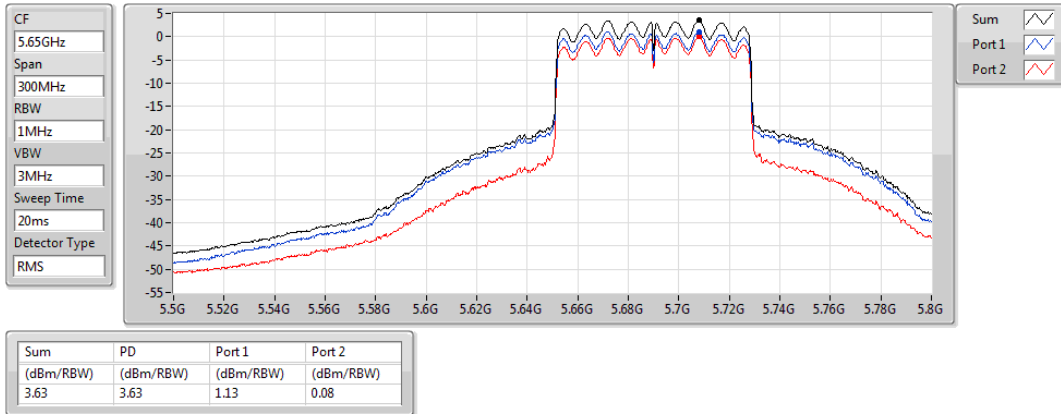


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

27/10/2019

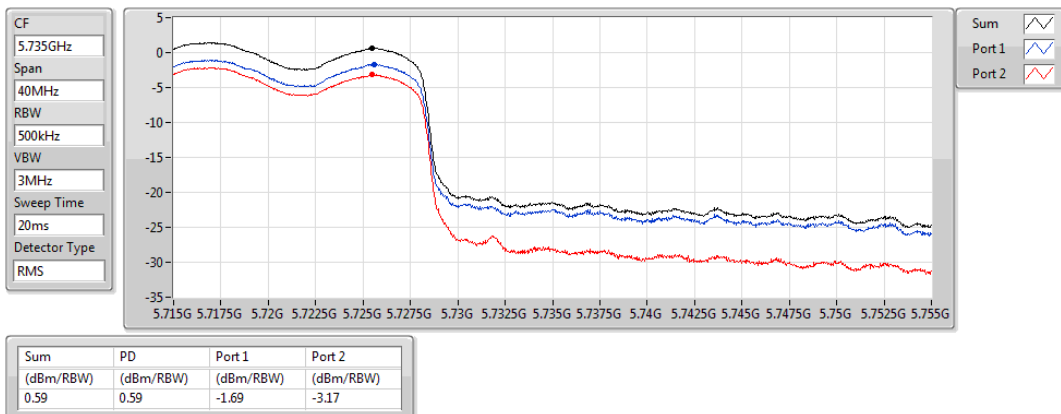


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.725-5.85GHz

27/10/2019

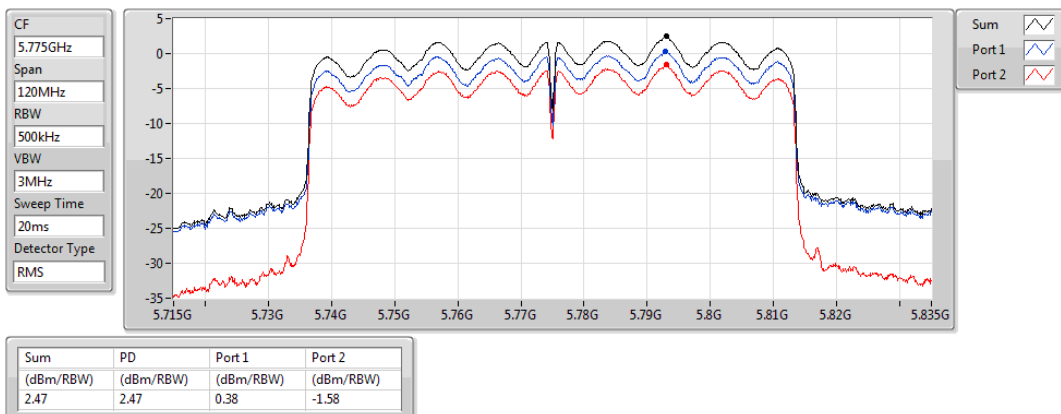


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

27/10/2019





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac_VHT80_Nss1,(MCS0)_2TX	Pass	QP	392.78M	45.17	46.00	-0.83	3	Horizontal	172	1.00	-



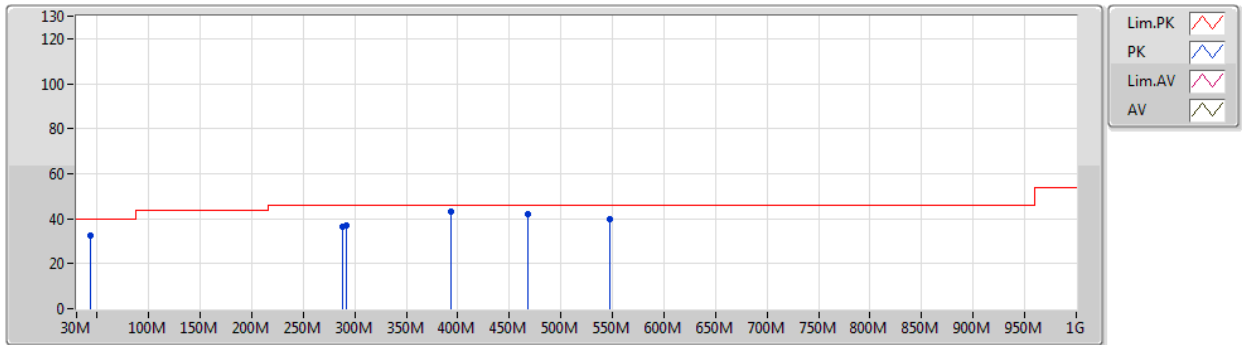
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	43.58M	32.66	40.00	-7.34	3	Vertical	360	1.00	-
5775MHz	Pass	PK	288.02M	36.61	46.00	-9.39	3	Vertical	360	1.00	-
5775MHz	Pass	PK	291.9M	36.72	46.00	-9.28	3	Vertical	360	1.00	-
5775MHz	Pass	PK	392.78M	42.91	46.00	-3.09	3	Vertical	360	1.00	-
5775MHz	Pass	PK	468.44M	42.28	46.00	-3.72	3	Vertical	360	1.00	-
5775MHz	Pass	PK	547.98M	39.78	46.00	-6.22	3	Vertical	360	1.00	-
5775MHz	Pass	PK	171.62M	30.83	43.50	-12.67	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	291.9M	42.97	46.00	-3.03	3	Horizontal	0	1.00	-
5775MHz	Pass	PK	297.72M	42.99	46.00	-3.01	3	Horizontal	0	1.00	-
5775MHz	Pass	QP	386.96M	44.92	46.00	-1.08	3	Horizontal	255	1.00	-
5775MHz	Pass	QP	392.78M	45.17	46.00	-0.83	3	Horizontal	172	1.00	-
5775MHz	Pass	QP	478.14M	44.78	46.00	-1.22	3	Horizontal	330	2.08	-

802.11ac VHT80_Nss1,(MCS0)_2TX

25/03/2020

5775MHz_Adapter

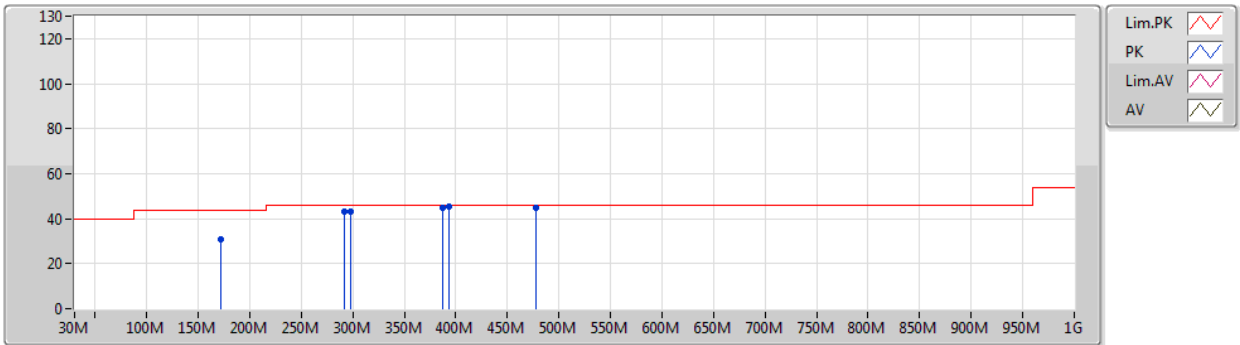


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	43.58M	32.66	40.00	-7.34	-11.05	3	Vertical	360	1.00	-	43.71	15.91	0.72	27.68
PK	288.02M	36.61	46.00	-9.39	-6.04	3	Vertical	360	1.00	-	42.65	18.19	2.94	27.17
PK	291.9M	36.72	46.00	-9.28	-5.98	3	Vertical	360	1.00	-	42.70	18.22	2.97	27.17
PK	392.78M	42.91	46.00	-3.09	-3.94	3	Vertical	360	1.00	-	46.85	20.69	3.18	27.81
PK	468.44M	42.28	46.00	-3.72	-2.61	3	Vertical	360	1.00	-	44.89	22.48	3.26	28.35
PK	547.98M	39.78	46.00	-6.22	-1.11	3	Vertical	360	1.00	-	40.89	23.94	3.58	28.63

802.11ac VHT80_Nss1,(MCS0)_2TX

25/03/2020

5775MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	171.62M	30.83	43.50	-12.67	-10.79	3	Horizontal	0	1.00	-	41.62	14.69	2.04	27.52
PK	291.9M	42.97	46.00	-3.03	-5.98	3	Horizontal	0	1.00	-	48.95	18.22	2.97	27.17
PK	297.72M	42.99	46.00	-3.01	-5.83	3	Horizontal	0	1.00	-	48.82	18.35	2.99	27.17
QP	386.96M	44.92	46.00	-1.08	-4.19	3	Horizontal	255	1.00	-	49.11	20.42	3.16	27.77
QP	392.78M	45.17	46.00	-0.83	-3.94	3	Horizontal	172	1.00	-	49.11	20.69	3.18	27.81
QP	478.14M	44.78	46.00	-1.22	-2.33	3	Horizontal	330	2.08	-	47.11	22.76	3.28	28.37



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.1498G	53.51	54.00	-0.49	3	Horizontal	258	1.00	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.15G	53.73	54.00	-0.27	3	Horizontal	278	1.00	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.15G	53.86	54.00	-0.14	3	Horizontal	234	1.00	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.149G	53.54	54.00	-0.46	3	Horizontal	237	1.00	-
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.35G	53.26	54.00	-0.74	3	Horizontal	285	1.00	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.35G	53.59	54.00	-0.41	3	Horizontal	285	1.00	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.35G	53.71	54.00	-0.29	3	Horizontal	236	1.00	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.352G	53.62	54.00	-0.38	3	Horizontal	236	1.00	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	17.16714G	68.02	68.20	-0.18	3	Vertical	216	2.41	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	PK	5.8556G	68.08	68.20	-0.12	3	Horizontal	273	1.50	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	PK	5.8528G	68.06	68.20	-0.14	3	Horizontal	276	1.00	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	5.469G	68.06	68.20	-0.14	3	Horizontal	284	1.00	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	17.4828G	68.09	68.20	-0.11	3	Horizontal	37	2.55	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	PK	17.35571G	68.13	68.20	-0.07	3	Vertical	352	1.06	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	PK	17.39178G	67.77	68.20	-0.43	3	Horizontal	327	2.58	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	5.931G	68.09	68.20	-0.11	3	Horizontal	27	1.02	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	49.21	54.00	-4.79	3	Vertical	101	3.00	-
5180MHz	Pass	AV	5.1872G	94.69	Inf	-Inf	3	Vertical	101	3.00	-
5180MHz	Pass	PK	5.15G	62.05	74.00	-11.95	3	Vertical	101	3.00	-
5180MHz	Pass	PK	5.1868G	103.49	Inf	-Inf	3	Vertical	101	3.00	-
5180MHz	Pass	AV	5.1498G	53.51	54.00	-0.49	3	Horizontal	258	1.00	-
5180MHz	Pass	AV	5.184G	102.56	Inf	-Inf	3	Horizontal	258	1.00	-
5180MHz	Pass	PK	5.1486G	68.84	74.00	-5.16	3	Horizontal	258	1.00	-
5180MHz	Pass	PK	5.1838G	111.32	Inf	-Inf	3	Horizontal	258	1.00	-
5180MHz	Pass	AV	15.54348G	48.82	54.00	-5.18	3	Vertical	0	2.22	-
5180MHz	Pass	PK	10.36984G	59.45	68.20	-8.75	3	Vertical	61	2.32	-
5180MHz	Pass	PK	15.5409G	62.05	74.00	-11.95	3	Vertical	0	2.22	-
5180MHz	Pass	AV	15.5262G	47.71	54.00	-6.29	3	Horizontal	135	1.50	-
5180MHz	Pass	PK	10.35406G	59.48	68.20	-8.72	3	Horizontal	301	2.38	-
5180MHz	Pass	PK	15.5367G	60.83	74.00	-13.17	3	Horizontal	135	1.50	-
5200MHz	Pass	AV	5.15G	48.78	54.00	-5.22	3	Vertical	102	3.00	-
5200MHz	Pass	AV	5.2072G	97.83	Inf	-Inf	3	Vertical	102	3.00	-
5200MHz	Pass	PK	5.1008G	61.29	74.00	-12.71	3	Vertical	102	3.00	-
5200MHz	Pass	PK	5.2068G	106.52	Inf	-Inf	3	Vertical	102	3.00	-
5200MHz	Pass	AV	5.15G	53.41	54.00	-0.59	3	Horizontal	260	1.00	-
5200MHz	Pass	AV	5.2032G	106.61	Inf	-Inf	3	Horizontal	260	1.00	-
5200MHz	Pass	PK	5.1488G	66.91	74.00	-7.09	3	Horizontal	260	1.00	-
5200MHz	Pass	PK	5.2028G	115.71	Inf	-Inf	3	Horizontal	260	1.00	-
5200MHz	Pass	AV	15.60252G	53.29	54.00	-0.71	3	Vertical	22	3.00	-
5200MHz	Pass	PK	10.41308G	60.13	68.20	-8.07	3	Vertical	34	1.47	-
5200MHz	Pass	PK	15.60336G	66.37	74.00	-7.63	3	Vertical	22	3.00	-
5200MHz	Pass	AV	15.60426G	52.60	54.00	-1.40	3	Horizontal	67	1.00	-
5200MHz	Pass	PK	10.39208G	60.08	68.20	-8.12	3	Horizontal	151	1.61	-
5200MHz	Pass	PK	15.60504G	65.71	74.00	-8.29	3	Horizontal	67	1.00	-
5240MHz	Pass	AV	5.129G	47.98	54.00	-6.02	3	Vertical	105	2.93	-
5240MHz	Pass	AV	5.2466G	99.61	Inf	-Inf	3	Vertical	105	2.93	-
5240MHz	Pass	AV	5.3822G	46.50	54.00	-7.50	3	Vertical	105	2.93	-
5240MHz	Pass	PK	5.1152G	60.99	74.00	-13.01	3	Vertical	105	2.93	-
5240MHz	Pass	PK	5.2454G	109.21	Inf	-Inf	3	Vertical	105	2.93	-
5240MHz	Pass	PK	5.3738G	59.29	74.00	-14.71	3	Vertical	105	2.93	-
5240MHz	Pass	AV	5.1482G	51.83	54.00	-2.17	3	Horizontal	260	1.00	-
5240MHz	Pass	AV	5.243G	108.16	Inf	-Inf	3	Horizontal	260	1.00	-
5240MHz	Pass	AV	5.3588G	47.78	54.00	-6.22	3	Horizontal	260	1.00	-
5240MHz	Pass	PK	5.147G	67.89	74.00	-6.11	3	Horizontal	260	1.00	-
5240MHz	Pass	PK	5.2424G	118.07	Inf	-Inf	3	Horizontal	260	1.00	-
5240MHz	Pass	PK	5.3582G	60.58	74.00	-13.42	3	Horizontal	260	1.00	-
5240MHz	Pass	AV	15.71946G	50.25	54.00	-3.75	3	Vertical	0	2.25	-
5240MHz	Pass	PK	10.47322G	60.34	68.20	-7.86	3	Vertical	176	2.66	-
5240MHz	Pass	PK	15.72348G	63.01	74.00	-10.99	3	Vertical	0	2.25	-
5240MHz	Pass	AV	15.72336G	48.85	54.00	-5.15	3	Horizontal	202	2.18	-
5240MHz	Pass	PK	10.47712G	62.58	68.20	-5.62	3	Horizontal	202	3.00	-
5240MHz	Pass	PK	15.72834G	61.98	74.00	-12.02	3	Horizontal	202	2.18	-
5260MHz	Pass	AV	5.1238G	47.87	54.00	-6.13	3	Vertical	108	2.89	-

Remark :

Page No. : E2 of E178

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992607

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5260MHz	Pass	AV	5.2666G	98.32	Inf	-Inf	3	Vertical	108	2.89	-
5260MHz	Pass	AV	5.3506G	47.27	54.00	-6.73	3	Vertical	108	2.89	-
5260MHz	Pass	PK	5.1382G	60.45	74.00	-13.55	3	Vertical	108	2.89	-
5260MHz	Pass	PK	5.2654G	108.26	Inf	-Inf	3	Vertical	108	2.89	-
5260MHz	Pass	PK	5.368G	59.81	74.00	-14.19	3	Vertical	108	2.89	-
5260MHz	Pass	AV	5.1484G	49.30	54.00	-4.70	3	Horizontal	261	1.00	-
5260MHz	Pass	AV	5.263G	107.55	Inf	-Inf	3	Horizontal	261	1.00	-
5260MHz	Pass	AV	5.3596G	49.04	54.00	-4.96	3	Horizontal	261	1.00	-
5260MHz	Pass	PK	5.1466G	62.04	74.00	-11.96	3	Horizontal	261	1.00	-
5260MHz	Pass	PK	5.2624G	117.51	Inf	-Inf	3	Horizontal	261	1.00	-
5260MHz	Pass	PK	5.3584G	63.21	74.00	-10.79	3	Horizontal	261	1.00	-
5260MHz	Pass	AV	15.78018G	50.24	54.00	-3.76	3	Vertical	0	2.13	-
5260MHz	Pass	PK	10.51634G	63.65	68.20	-4.55	3	Vertical	122	2.77	-
5260MHz	Pass	PK	15.77796G	62.84	74.00	-11.16	3	Vertical	0	2.13	-
5260MHz	Pass	AV	15.7833G	48.97	54.00	-5.03	3	Horizontal	201	2.26	-
5260MHz	Pass	PK	10.51766G	62.86	68.20	-5.34	3	Horizontal	211	3.00	-
5260MHz	Pass	PK	15.77868G	61.46	74.00	-12.54	3	Horizontal	201	2.26	-
5300MHz	Pass	AV	5.2932G	98.40	Inf	-Inf	3	Vertical	98	2.87	-
5300MHz	Pass	AV	5.35G	49.41	54.00	-4.59	3	Vertical	98	2.87	-
5300MHz	Pass	PK	5.2928G	108.26	Inf	-Inf	3	Vertical	98	2.87	-
5300MHz	Pass	PK	5.35G	62.75	74.00	-11.25	3	Vertical	98	2.87	-
5300MHz	Pass	AV	5.3032G	107.37	Inf	-Inf	3	Horizontal	260	1.00	-
5300MHz	Pass	AV	5.36G	53.09	54.00	-0.91	3	Horizontal	260	1.00	-
5300MHz	Pass	PK	5.3028G	117.26	Inf	-Inf	3	Horizontal	260	1.00	-
5300MHz	Pass	PK	5.3576G	70.62	74.00	-3.38	3	Horizontal	260	1.00	-
5300MHz	Pass	AV	15.90048G	49.91	54.00	-4.09	3	Vertical	1	2.23	-
5300MHz	Pass	PK	10.59628G	62.19	68.20	-6.01	3	Vertical	108	2.74	-
5300MHz	Pass	PK	15.9036G	62.39	74.00	-11.61	3	Vertical	1	2.23	-
5300MHz	Pass	AV	15.90384G	48.36	54.00	-5.64	3	Horizontal	25	1.05	-
5300MHz	Pass	PK	10.59826G	61.65	68.20	-6.55	3	Horizontal	199	2.94	-
5300MHz	Pass	PK	15.88692G	61.49	74.00	-12.51	3	Horizontal	25	1.05	-
5320MHz	Pass	AV	5.3146G	95.63	Inf	-Inf	3	Vertical	232	2.86	-
5320MHz	Pass	AV	5.3502G	48.65	54.00	-5.35	3	Vertical	232	2.86	-
5320MHz	Pass	PK	5.3136G	104.82	Inf	-Inf	3	Vertical	232	2.86	-
5320MHz	Pass	PK	5.3528G	61.76	74.00	-12.24	3	Vertical	232	2.86	-
5320MHz	Pass	AV	5.3232G	105.48	Inf	-Inf	3	Horizontal	285	1.00	-
5320MHz	Pass	AV	5.35G	53.26	54.00	-0.74	3	Horizontal	285	1.00	-
5320MHz	Pass	PK	5.3226G	114.33	Inf	-Inf	3	Horizontal	285	1.00	-
5320MHz	Pass	PK	5.357G	67.08	74.00	-6.92	3	Horizontal	285	1.00	-
5320MHz	Pass	AV	10.6378G	46.94	54.00	-7.06	3	Vertical	2	1.50	-
5320MHz	Pass	AV	15.95712G	50.98	54.00	-3.02	3	Vertical	10	3.00	-
5320MHz	Pass	PK	10.64064G	60.08	74.00	-13.92	3	Vertical	2	1.50	-
5320MHz	Pass	PK	15.95454G	64.88	74.00	-9.12	3	Vertical	10	3.00	-
5320MHz	Pass	AV	10.63944G	46.82	54.00	-7.18	3	Horizontal	92	1.46	-
5320MHz	Pass	AV	15.95712G	49.25	54.00	-4.75	3	Horizontal	41	1.00	-
5320MHz	Pass	PK	10.64048G	60.38	74.00	-13.62	3	Horizontal	92	1.46	-
5320MHz	Pass	PK	15.95784G	62.47	74.00	-11.53	3	Horizontal	41	1.00	-
5500MHz	Pass	AV	5.4578G	46.86	54.00	-7.14	3	Vertical	111	3.00	-
5500MHz	Pass	AV	5.506G	96.87	Inf	-Inf	3	Vertical	111	3.00	-

Remark :

Page No. : E3 of E178

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992607



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5500MHz	Pass	PK	5.4682G	62.45	68.20	-5.75	3	Vertical	111	3.00	-
5500MHz	Pass	PK	5.5068G	105.50	Inf	-Inf	3	Vertical	111	3.00	-
5500MHz	Pass	AV	5.46G	51.39	54.00	-2.61	3	Horizontal	282	1.00	-
5500MHz	Pass	AV	5.5016G	105.62	Inf	-Inf	3	Horizontal	282	1.00	-
5500MHz	Pass	PK	5.4668G	67.97	68.20	-0.23	3	Horizontal	282	1.00	-
5500MHz	Pass	PK	5.4992G	114.42	Inf	-Inf	3	Horizontal	282	1.00	-
5500MHz	Pass	AV	10.99802G	48.01	54.00	-5.99	3	Vertical	34	1.48	-
5500MHz	Pass	PK	10.99807G	61.43	74.00	-12.57	3	Vertical	34	1.48	-
5500MHz	Pass	PK	16.49874G	62.30	68.20	-5.90	3	Vertical	103	1.50	-
5500MHz	Pass	AV	11.0016G	47.96	54.00	-6.04	3	Horizontal	39	1.50	-
5500MHz	Pass	PK	10.99825G	61.40	74.00	-12.60	3	Horizontal	39	1.50	-
5500MHz	Pass	PK	16.4988G	61.80	68.20	-6.40	3	Horizontal	184	2.66	-
5580MHz	Pass	AV	5.4552G	46.82	54.00	-7.18	3	Vertical	183	2.94	-
5580MHz	Pass	AV	5.5836G	98.15	Inf	-Inf	3	Vertical	183	2.94	-
5580MHz	Pass	PK	5.4648G	59.50	68.20	-8.70	3	Vertical	183	2.94	-
5580MHz	Pass	PK	5.583G	108.09	Inf	-Inf	3	Vertical	183	2.94	-
5580MHz	Pass	PK	5.7258G	59.36	68.20	-8.84	3	Vertical	183	2.94	-
5580MHz	Pass	AV	5.4498G	49.57	54.00	-4.43	3	Horizontal	278	1.00	-
5580MHz	Pass	AV	5.577G	109.50	Inf	-Inf	3	Horizontal	278	1.00	-
5580MHz	Pass	PK	5.466G	67.44	68.20	-0.76	3	Horizontal	278	1.00	-
5580MHz	Pass	PK	5.577G	119.46	Inf	-Inf	3	Horizontal	278	1.00	-
5580MHz	Pass	PK	5.7252G	63.59	68.20	-4.61	3	Horizontal	278	1.00	-
5580MHz	Pass	AV	11.15628G	51.32	54.00	-2.68	3	Vertical	149	2.17	-
5580MHz	Pass	PK	11.15712G	63.81	74.00	-10.19	3	Vertical	149	2.17	-
5580MHz	Pass	PK	16.73496G	65.32	68.20	-2.88	3	Vertical	214	2.17	-
5580MHz	Pass	AV	11.16G	50.95	54.00	-3.05	3	Horizontal	207	2.91	-
5580MHz	Pass	PK	11.15682G	63.46	74.00	-10.54	3	Horizontal	207	2.91	-
5580MHz	Pass	PK	16.74888G	63.42	68.20	-4.78	3	Horizontal	153	2.05	-
5700MHz	Pass	AV	5.6948G	96.69	Inf	-Inf	3	Vertical	104	2.95	-
5700MHz	Pass	PK	5.6964G	105.89	Inf	-Inf	3	Vertical	104	2.95	-
5700MHz	Pass	PK	5.7256G	62.23	68.20	-5.97	3	Vertical	104	2.95	-
5700MHz	Pass	AV	5.6968G	103.63	Inf	-Inf	3	Horizontal	276	1.00	-
5700MHz	Pass	PK	5.6968G	113.13	Inf	-Inf	3	Horizontal	276	1.00	-
5700MHz	Pass	PK	5.7252G	67.87	68.20	-0.33	3	Horizontal	276	1.00	-
5700MHz	Pass	AV	11.39965G	47.71	54.00	-6.29	3	Vertical	357	1.40	-
5700MHz	Pass	PK	11.40034G	60.83	74.00	-13.17	3	Vertical	357	1.40	-
5700MHz	Pass	PK	17.1084G	65.19	68.20	-3.01	3	Vertical	22	2.03	-
5700MHz	Pass	AV	11.40058G	47.62	54.00	-6.38	3	Horizontal	183	1.50	-
5700MHz	Pass	PK	11.39753G	61.52	74.00	-12.48	3	Horizontal	183	1.50	-
5700MHz	Pass	PK	17.0997G	64.03	68.20	-4.17	3	Horizontal	88	2.18	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4584G	46.70	54.00	-7.30	3	Vertical	341	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7152G	101.01	Inf	-Inf	3	Vertical	341	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	58.41	68.20	-9.79	3	Vertical	341	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.714G	110.95	Inf	-Inf	3	Vertical	341	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8508G	64.32	68.20	-3.88	3	Vertical	341	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.456G	47.01	54.00	-6.99	3	Horizontal	276	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7164G	108.43	Inf	-Inf	3	Horizontal	276	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.46G	59.17	68.20	-9.03	3	Horizontal	276	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7164G	118.31	Inf	-Inf	3	Horizontal	276	1.00	-

Remark :

Page No. : E4 of E178

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992607

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8508G	67.67	68.20	-0.53	3	Horizontal	276	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43826G	52.39	54.00	-1.61	3	Vertical	274	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.4343G	65.51	74.00	-8.49	3	Vertical	274	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16714G	68.02	68.20	-0.18	3	Vertical	216	2.41	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43978G	50.60	54.00	-3.40	3	Horizontal	217	2.88	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.43608G	63.17	74.00	-10.83	3	Horizontal	217	2.88	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16762G	65.72	68.20	-2.48	3	Horizontal	174	2.80	-
5745MHz	Pass	AV	5.7402G	100.91	Inf	-Inf	3	Vertical	103	2.89	-
5745MHz	Pass	PK	5.637G	61.05	68.20	-7.15	3	Vertical	103	2.89	-
5745MHz	Pass	PK	5.7402G	110.96	Inf	-Inf	3	Vertical	103	2.89	-
5745MHz	Pass	PK	5.949G	61.24	68.20	-6.96	3	Vertical	103	2.89	-
5745MHz	Pass	AV	5.7414G	108.51	Inf	-Inf	3	Horizontal	276	1.00	-
5745MHz	Pass	PK	5.6514G	68.79	69.24	-0.45	3	Horizontal	276	1.00	-
5745MHz	Pass	PK	5.7414G	118.35	Inf	-Inf	3	Horizontal	276	1.00	-
5745MHz	Pass	PK	5.9418G	61.92	68.20	-6.28	3	Horizontal	276	1.00	-
5745MHz	Pass	AV	11.4882G	51.23	54.00	-2.77	3	Vertical	273	2.78	-
5745MHz	Pass	PK	11.48688G	64.61	74.00	-9.39	3	Vertical	273	2.78	-
5745MHz	Pass	PK	17.23206G	67.94	68.20	-0.26	3	Vertical	8	2.52	-
5745MHz	Pass	AV	11.48706G	47.13	54.00	-6.87	3	Horizontal	160	1.50	-
5745MHz	Pass	PK	11.4858G	60.56	74.00	-13.44	3	Horizontal	160	1.50	-
5745MHz	Pass	PK	17.23638G	67.20	68.20	-1.00	3	Horizontal	40	2.17	-
5785MHz	Pass	AV	5.7802G	100.73	Inf	-Inf	3	Vertical	104	3.00	-
5785MHz	Pass	PK	5.6062G	60.92	68.20	-7.28	3	Vertical	104	3.00	-
5785MHz	Pass	PK	5.7814G	110.43	Inf	-Inf	3	Vertical	104	3.00	-
5785MHz	Pass	PK	5.9578G	61.28	68.20	-6.92	3	Vertical	104	3.00	-
5785MHz	Pass	AV	5.7814G	108.07	Inf	-Inf	3	Horizontal	275	1.00	-
5785MHz	Pass	PK	5.6386G	63.33	68.20	-4.87	3	Horizontal	275	1.00	-
5785MHz	Pass	PK	5.7814G	117.97	Inf	-Inf	3	Horizontal	275	1.00	-
5785MHz	Pass	PK	5.9254G	64.93	68.20	-3.27	3	Horizontal	275	1.00	-
5785MHz	Pass	PK	11.5643G	65.29	74.00	-8.71	3	Vertical	271	2.95	-
5785MHz	Pass	AV	11.56832G	51.55	54.00	-2.45	3	Vertical	271	2.95	-
5785MHz	Pass	PK	17.364G	67.48	68.20	-0.72	3	Vertical	199	2.10	-
5785MHz	Pass	AV	11.57006G	48.64	54.00	-5.36	3	Horizontal	209	2.79	-
5785MHz	Pass	PK	11.56706G	61.51	74.00	-12.49	3	Horizontal	209	2.79	-
5785MHz	Pass	PK	17.35806G	67.97	68.20	-0.23	3	Horizontal	327	2.59	-
5825MHz	Pass	AV	5.8214G	97.62	Inf	-Inf	3	Vertical	104	3.00	-
5825MHz	Pass	PK	5.6414G	60.11	68.20	-8.09	3	Vertical	104	3.00	-
5825MHz	Pass	PK	5.8214G	107.23	Inf	-Inf	3	Vertical	104	3.00	-
5825MHz	Pass	PK	5.9366G	61.03	68.20	-7.17	3	Vertical	104	3.00	-
5825MHz	Pass	AV	5.8214G	105.18	Inf	-Inf	3	Horizontal	275	1.00	-
5825MHz	Pass	PK	5.6426G	60.14	68.20	-8.06	3	Horizontal	275	1.00	-
5825MHz	Pass	PK	5.8214G	114.62	Inf	-Inf	3	Horizontal	275	1.00	-
5825MHz	Pass	PK	5.9414G	62.11	68.20	-6.09	3	Horizontal	275	1.00	-
5825MHz	Pass	AV	11.64712G	47.81	54.00	-6.19	3	Vertical	277	2.99	-
5825MHz	Pass	PK	11.64418G	60.40	74.00	-13.60	3	Vertical	277	2.99	-
5825MHz	Pass	PK	17.4729G	68.02	68.20	-0.18	3	Vertical	212	1.87	-
5825MHz	Pass	AV	11.65948G	47.21	54.00	-6.79	3	Horizontal	39	2.58	-
5825MHz	Pass	PK	11.64448G	61.11	74.00	-12.89	3	Horizontal	39	2.58	-
5825MHz	Pass	PK	17.4828G	68.09	68.20	-0.11	3	Horizontal	37	2.55	-

Remark :

Page No. : E5 of E178

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992607



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1498G	48.07	54.00	-5.93	3	Vertical	93	2.90	-
5180MHz	Pass	AV	5.1854G	86.71	Inf	-Inf	3	Vertical	93	2.90	-
5180MHz	Pass	PK	5.1482G	61.04	74.00	-12.96	3	Vertical	93	2.90	-
5180MHz	Pass	PK	5.1842G	96.14	Inf	-Inf	3	Vertical	93	2.90	-
5180MHz	Pass	AV	5.15G	53.73	54.00	-0.27	3	Horizontal	278	1.00	-
5180MHz	Pass	AV	5.1854G	101.94	Inf	-Inf	3	Horizontal	278	1.00	-
5180MHz	Pass	PK	5.1486G	69.67	74.00	-4.33	3	Horizontal	278	1.00	-
5180MHz	Pass	PK	5.184G	111.03	Inf	-Inf	3	Horizontal	278	1.00	-
5180MHz	Pass	AV	15.5301G	47.50	54.00	-6.50	3	Vertical	152	1.13	-
5180MHz	Pass	PK	10.36822G	59.77	68.20	-8.43	3	Vertical	190	1.50	-
5180MHz	Pass	PK	15.55224G	61.55	74.00	-12.45	3	Vertical	152	1.13	-
5180MHz	Pass	AV	15.53574G	49.45	54.00	-4.55	3	Horizontal	69	1.86	-
5180MHz	Pass	PK	10.35172G	60.05	68.20	-8.15	3	Horizontal	155	1.50	-
5180MHz	Pass	PK	15.52782G	63.86	74.00	-10.14	3	Horizontal	69	1.86	-
5200MHz	Pass	AV	5.1036G	48.59	54.00	-5.41	3	Vertical	170	1.50	-
5200MHz	Pass	AV	5.1944G	90.51	Inf	-Inf	3	Vertical	170	1.50	-
5200MHz	Pass	PK	5.1452G	60.51	74.00	-13.49	3	Vertical	170	1.50	-
5200MHz	Pass	PK	5.206G	99.49	Inf	-Inf	3	Vertical	170	1.50	-
5200MHz	Pass	AV	5.1492G	53.52	54.00	-0.48	3	Horizontal	252	1.00	-
5200MHz	Pass	AV	5.2052G	106.52	Inf	-Inf	3	Horizontal	252	1.00	-
5200MHz	Pass	PK	5.15G	66.90	74.00	-7.10	3	Horizontal	252	1.00	-
5200MHz	Pass	PK	5.204G	115.55	Inf	-Inf	3	Horizontal	252	1.00	-
5200MHz	Pass	AV	15.59892G	49.75	54.00	-4.25	3	Vertical	2	1.00	-
5200MHz	Pass	PK	10.39712G	59.58	68.20	-8.62	3	Vertical	325	1.85	-
5200MHz	Pass	PK	15.59592G	62.92	74.00	-11.08	3	Vertical	2	1.00	-
5200MHz	Pass	AV	15.59952G	49.64	54.00	-4.36	3	Horizontal	69	2.16	-
5200MHz	Pass	PK	10.3904G	59.79	68.20	-8.41	3	Horizontal	115	1.40	-
5200MHz	Pass	PK	15.58986G	62.79	74.00	-11.21	3	Horizontal	69	2.16	-
5240MHz	Pass	AV	5.0954G	48.08	54.00	-5.92	3	Vertical	91	2.23	-
5240MHz	Pass	AV	5.2454G	96.53	Inf	-Inf	3	Vertical	91	2.23	-
5240MHz	Pass	AV	5.3852G	46.34	54.00	-7.66	3	Vertical	91	2.23	-
5240MHz	Pass	PK	5.1212G	61.32	74.00	-12.68	3	Vertical	91	2.23	-
5240MHz	Pass	PK	5.246G	106.26	Inf	-Inf	3	Vertical	91	2.23	-
5240MHz	Pass	PK	5.3684G	58.83	74.00	-15.17	3	Vertical	91	2.23	-
5240MHz	Pass	AV	5.15G	49.11	54.00	-4.89	3	Horizontal	286	1.00	-
5240MHz	Pass	AV	5.2454G	107.32	Inf	-Inf	3	Horizontal	286	1.00	-
5240MHz	Pass	AV	5.3528G	47.77	54.00	-6.23	3	Horizontal	286	1.00	-
5240MHz	Pass	PK	5.1422G	65.70	74.00	-8.30	3	Horizontal	286	1.00	-
5240MHz	Pass	PK	5.2436G	117.83	Inf	-Inf	3	Horizontal	286	1.00	-
5240MHz	Pass	PK	5.35G	63.93	74.00	-10.07	3	Horizontal	286	1.00	-
5240MHz	Pass	AV	15.72348G	47.82	54.00	-6.18	3	Vertical	171	1.00	-
5240MHz	Pass	PK	10.47304G	60.77	68.20	-7.43	3	Vertical	174	2.13	-
5240MHz	Pass	PK	15.72978G	60.36	74.00	-13.64	3	Vertical	171	1.00	-
5240MHz	Pass	AV	15.73284G	47.74	54.00	-6.26	3	Horizontal	357	1.50	-
5240MHz	Pass	PK	10.49422G	59.58	68.20	-8.62	3	Horizontal	145	1.50	-
5240MHz	Pass	PK	15.70932G	60.58	74.00	-13.42	3	Horizontal	357	1.50	-
5260MHz	Pass	AV	5.1304G	47.86	54.00	-6.14	3	Vertical	90	2.54	-
5260MHz	Pass	AV	5.2546G	97.27	Inf	-Inf	3	Vertical	90	2.54	-

Remark :

Page No. : E6 of E178

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992607

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5260MHz	Pass	AV	5.3518G	46.48	54.00	-7.52	3	Vertical	90	2.54	-
5260MHz	Pass	PK	5.1382G	61.83	74.00	-12.17	3	Vertical	90	2.54	-
5260MHz	Pass	PK	5.2636G	107.94	Inf	-Inf	3	Vertical	90	2.54	-
5260MHz	Pass	PK	5.4064G	60.09	74.00	-13.91	3	Vertical	90	2.54	-
5260MHz	Pass	AV	5.15G	48.62	54.00	-5.38	3	Horizontal	283	1.00	-
5260MHz	Pass	AV	5.2654G	107.13	Inf	-Inf	3	Horizontal	283	1.00	-
5260MHz	Pass	AV	5.35G	49.15	54.00	-4.85	3	Horizontal	283	1.00	-
5260MHz	Pass	PK	5.15G	61.31	74.00	-12.69	3	Horizontal	283	1.00	-
5260MHz	Pass	PK	5.2636G	117.97	Inf	-Inf	3	Horizontal	283	1.00	-
5260MHz	Pass	PK	5.3572G	65.85	74.00	-8.15	3	Horizontal	283	1.00	-
5260MHz	Pass	AV	15.7863G	47.54	54.00	-6.46	3	Vertical	84	2.96	-
5260MHz	Pass	PK	10.51616G	59.74	68.20	-8.46	3	Vertical	360	1.50	-
5260MHz	Pass	PK	15.78312G	60.74	74.00	-13.26	3	Vertical	84	2.96	-
5260MHz	Pass	AV	15.77358G	47.35	54.00	-6.65	3	Horizontal	79	1.50	-
5260MHz	Pass	PK	10.53488G	60.03	68.20	-8.17	3	Horizontal	359	1.50	-
5260MHz	Pass	PK	15.76908G	60.66	74.00	-13.34	3	Horizontal	79	1.50	-
5300MHz	Pass	AV	5.3052G	96.45	Inf	-Inf	3	Vertical	91	2.65	-
5300MHz	Pass	AV	5.35G	47.61	54.00	-6.39	3	Vertical	91	2.65	-
5300MHz	Pass	PK	5.304G	106.00	Inf	-Inf	3	Vertical	91	2.65	-
5300MHz	Pass	PK	5.3504G	60.25	74.00	-13.75	3	Vertical	91	2.65	-
5300MHz	Pass	AV	5.3052G	106.82	Inf	-Inf	3	Horizontal	285	1.00	-
5300MHz	Pass	AV	5.35G	53.59	54.00	-0.41	3	Horizontal	285	1.00	-
5300MHz	Pass	PK	5.3012G	116.56	Inf	-Inf	3	Horizontal	285	1.00	-
5300MHz	Pass	PK	5.35G	70.81	74.00	-3.19	3	Horizontal	285	1.00	-
5300MHz	Pass	AV	15.89496G	50.00	54.00	-4.00	3	Vertical	355	1.50	-
5300MHz	Pass	PK	10.59646G	60.25	68.20	-7.95	3	Vertical	360	1.50	-
5300MHz	Pass	PK	15.89892G	64.70	74.00	-9.30	3	Vertical	355	1.50	-
5300MHz	Pass	AV	15.89532G	47.62	54.00	-6.38	3	Horizontal	360	1.50	-
5300MHz	Pass	PK	10.59868G	59.86	68.20	-8.34	3	Horizontal	209	1.50	-
5300MHz	Pass	PK	15.9036G	60.72	74.00	-13.28	3	Horizontal	360	1.50	-
5320MHz	Pass	AV	5.3254G	91.42	Inf	-Inf	3	Vertical	116	2.95	-
5320MHz	Pass	AV	5.35G	47.10	54.00	-6.90	3	Vertical	116	2.95	-
5320MHz	Pass	PK	5.3242G	100.51	Inf	-Inf	3	Vertical	116	2.95	-
5320MHz	Pass	PK	5.3506G	59.65	74.00	-14.35	3	Vertical	116	2.95	-
5320MHz	Pass	AV	5.3146G	103.04	Inf	-Inf	3	Horizontal	284	1.00	-
5320MHz	Pass	AV	5.35G	53.57	54.00	-0.43	3	Horizontal	284	1.00	-
5320MHz	Pass	PK	5.3152G	112.41	Inf	-Inf	3	Horizontal	284	1.00	-
5320MHz	Pass	PK	5.3502G	68.43	74.00	-5.57	3	Horizontal	284	1.00	-
5320MHz	Pass	AV	10.64138G	46.76	54.00	-7.24	3	Vertical	136	1.50	-
5320MHz	Pass	AV	15.95592G	48.67	54.00	-5.33	3	Vertical	10	2.82	-
5320MHz	Pass	PK	10.63238G	60.12	74.00	-13.88	3	Vertical	136	1.50	-
5320MHz	Pass	PK	15.95556G	62.89	74.00	-11.11	3	Vertical	10	2.82	-
5320MHz	Pass	AV	10.6424G	46.82	54.00	-7.18	3	Horizontal	16	3.00	-
5320MHz	Pass	AV	15.94788G	46.76	54.00	-7.24	3	Horizontal	145	1.84	-
5320MHz	Pass	PK	10.64396G	59.83	74.00	-14.17	3	Horizontal	16	3.00	-
5320MHz	Pass	PK	15.94836G	59.84	74.00	-14.16	3	Horizontal	145	1.84	-
5500MHz	Pass	AV	5.4568G	46.79	54.00	-7.21	3	Vertical	95	2.58	-
5500MHz	Pass	AV	5.5054G	94.00	Inf	-Inf	3	Vertical	95	2.58	-
5500MHz	Pass	PK	5.4666G	61.61	68.20	-6.59	3	Vertical	95	2.58	-

Remark :

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Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992607

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5500MHz	Pass	PK	5.5042G	103.00	Inf	-Inf	3	Vertical	95	2.58	-
5500MHz	Pass	AV	5.459G	47.63	54.00	-6.37	3	Horizontal	251	1.00	-
5500MHz	Pass	AV	5.5054G	101.15	Inf	-Inf	3	Horizontal	251	1.00	-
5500MHz	Pass	PK	5.467G	67.79	68.20	-0.41	3	Horizontal	251	1.00	-
5500MHz	Pass	PK	5.5042G	110.22	Inf	-Inf	3	Horizontal	251	1.00	-
5500MHz	Pass	AV	10.99382G	47.88	54.00	-6.12	3	Vertical	312	1.47	-
5500MHz	Pass	PK	11.00936G	61.48	74.00	-12.52	3	Vertical	312	1.47	-
5500MHz	Pass	PK	16.51044G	61.88	68.20	-6.32	3	Vertical	18	2.13	-
5500MHz	Pass	AV	10.99868G	47.83	54.00	-6.17	3	Horizontal	120	1.62	-
5500MHz	Pass	PK	11.01434G	61.60	74.00	-12.40	3	Horizontal	120	1.62	-
5500MHz	Pass	PK	16.51254G	62.02	68.20	-6.18	3	Horizontal	334	2.41	-
5580MHz	Pass	AV	5.4582G	46.78	54.00	-7.22	3	Vertical	159	1.00	-
5580MHz	Pass	AV	5.5854G	97.64	Inf	-Inf	3	Vertical	159	1.00	-
5580MHz	Pass	PK	5.4612G	59.21	68.20	-8.99	3	Vertical	159	1.00	-
5580MHz	Pass	PK	5.586G	108.20	Inf	-Inf	3	Vertical	159	1.00	-
5580MHz	Pass	PK	5.7252G	59.41	68.20	-8.79	3	Vertical	159	1.00	-
5580MHz	Pass	AV	5.457G	47.56	54.00	-6.44	3	Horizontal	298	1.00	-
5580MHz	Pass	AV	5.5746G	108.70	Inf	-Inf	3	Horizontal	298	1.00	-
5580MHz	Pass	PK	5.469G	66.09	68.20	-2.11	3	Horizontal	298	1.00	-
5580MHz	Pass	PK	5.5764G	119.58	Inf	-Inf	3	Horizontal	298	1.00	-
5580MHz	Pass	PK	5.73G	64.74	68.20	-3.46	3	Horizontal	298	1.00	-
5580MHz	Pass	AV	11.15928G	49.31	54.00	-4.69	3	Vertical	348	1.50	-
5580MHz	Pass	PK	11.15952G	63.34	74.00	-10.66	3	Vertical	348	1.50	-
5580MHz	Pass	PK	16.74558G	63.00	68.20	-5.20	3	Vertical	359	1.50	-
5580MHz	Pass	AV	11.15292G	47.73	54.00	-6.27	3	Horizontal	50	1.50	-
5580MHz	Pass	PK	11.14728G	61.07	74.00	-12.93	3	Horizontal	50	1.50	-
5580MHz	Pass	PK	16.74336G	62.88	68.20	-5.32	3	Horizontal	65	1.50	-
5700MHz	Pass	AV	5.7056G	93.46	Inf	-Inf	3	Vertical	157	1.00	-
5700MHz	Pass	PK	5.704G	102.59	Inf	-Inf	3	Vertical	157	1.00	-
5700MHz	Pass	PK	5.778G	61.66	68.20	-6.54	3	Vertical	157	1.00	-
5700MHz	Pass	AV	5.7052G	99.57	Inf	-Inf	3	Horizontal	27	1.00	-
5700MHz	Pass	PK	5.6952G	108.93	Inf	-Inf	3	Horizontal	27	1.00	-
5700MHz	Pass	PK	5.7252G	67.59	68.20	-0.61	3	Horizontal	27	1.00	-
5700MHz	Pass	AV	11.4135G	47.30	54.00	-6.70	3	Vertical	252	1.67	-
5700MHz	Pass	PK	11.39502G	61.06	74.00	-12.94	3	Vertical	252	1.67	-
5700MHz	Pass	PK	17.11014G	64.72	68.20	-3.48	3	Vertical	305	1.41	-
5700MHz	Pass	AV	11.40486G	47.28	54.00	-6.72	3	Horizontal	253	1.51	-
5700MHz	Pass	PK	11.40378G	60.28	74.00	-13.72	3	Horizontal	253	1.51	-
5700MHz	Pass	PK	17.1147G	64.94	68.20	-3.26	3	Horizontal	279	1.19	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4296G	47.50	54.00	-6.50	3	Vertical	147	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7152G	99.52	Inf	-Inf	3	Vertical	147	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4608G	59.50	68.20	-8.70	3	Vertical	147	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7164G	109.45	Inf	-Inf	3	Vertical	147	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.9216G	61.31	68.20	-6.89	3	Vertical	147	1.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4512G	47.71	54.00	-6.29	3	Horizontal	273	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7152G	105.83	Inf	-Inf	3	Horizontal	273	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4668G	59.72	68.20	-8.48	3	Horizontal	273	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7164G	116.10	Inf	-Inf	3	Horizontal	273	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8556G	68.08	68.20	-0.12	3	Horizontal	273	1.50	-

Remark :

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$$\text{Level (dBuV/m)} = \text{Raw(Read Level)} + \text{AF(Antenna Factor)} + \text{CL(Cable Loss)} - \text{PA(Preamp Factor)}$$

992607



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43943G	52.07	54.00	-1.93	3	Vertical	267	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44033G	65.66	74.00	-8.34	3	Vertical	267	3.00	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16134G	66.99	68.20	-1.21	3	Vertical	359	1.07	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43964G	50.12	54.00	-3.88	3	Horizontal	208	2.65	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.43921G	63.34	74.00	-10.66	3	Horizontal	208	2.65	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.15905G	67.49	68.20	-0.71	3	Horizontal	13	2.24	-
5745MHz	Pass	AV	5.7498G	99.39	Inf	-Inf	3	Vertical	91	2.80	-
5745MHz	Pass	PK	5.5962G	60.68	68.20	-7.52	3	Vertical	91	2.80	-
5745MHz	Pass	PK	5.7486G	108.89	Inf	-Inf	3	Vertical	91	2.80	-
5745MHz	Pass	PK	5.9682G	61.17	68.20	-7.03	3	Vertical	91	2.80	-
5745MHz	Pass	AV	5.7498G	106.86	Inf	-Inf	3	Horizontal	273	1.00	-
5745MHz	Pass	PK	5.6454G	62.65	68.20	-5.55	3	Horizontal	273	1.00	-
5745MHz	Pass	PK	5.7414G	116.07	Inf	-Inf	3	Horizontal	273	1.00	-
5745MHz	Pass	PK	5.9286G	60.95	68.20	-7.25	3	Horizontal	273	1.00	-
5745MHz	Pass	AV	11.48959G	49.82	54.00	-4.18	3	Vertical	263	2.90	-
5745MHz	Pass	PK	11.48908G	63.48	74.00	-10.52	3	Vertical	263	2.90	-
5745MHz	Pass	PK	17.23426G	67.88	68.20	-0.32	3	Vertical	213	1.88	-
5745MHz	Pass	AV	11.48871G	48.09	54.00	-5.91	3	Horizontal	39	1.22	-
5745MHz	Pass	PK	11.48815G	61.67	74.00	-12.33	3	Horizontal	39	1.22	-
5745MHz	Pass	PK	17.23632G	66.50	68.20	-1.70	3	Horizontal	99	2.80	-
5785MHz	Pass	AV	5.791G	95.68	Inf	-Inf	3	Vertical	158	1.02	-
5785MHz	Pass	PK	5.5858G	60.96	68.20	-7.24	3	Vertical	158	1.02	-
5785MHz	Pass	PK	5.7898G	104.44	Inf	-Inf	3	Vertical	158	1.02	-
5785MHz	Pass	PK	5.977G	61.04	68.20	-7.16	3	Vertical	158	1.02	-
5785MHz	Pass	AV	5.7898G	104.94	Inf	-Inf	3	Horizontal	271	1.00	-
5785MHz	Pass	PK	5.6218G	61.31	68.20	-6.89	3	Horizontal	271	1.00	-
5785MHz	Pass	PK	5.7898G	114.18	Inf	-Inf	3	Horizontal	271	1.00	-
5785MHz	Pass	PK	5.9422G	61.70	68.20	-6.50	3	Horizontal	271	1.00	-
5785MHz	Pass	AV	11.56955G	46.83	54.00	-7.17	3	Vertical	189	1.50	-
5785MHz	Pass	PK	11.57056G	62.17	74.00	-11.83	3	Vertical	189	1.50	-
5785MHz	Pass	PK	17.35571G	68.13	68.20	-0.07	3	Vertical	352	1.06	-
5785MHz	Pass	AV	11.56914G	46.82	54.00	-7.18	3	Horizontal	257	1.50	-
5785MHz	Pass	PK	11.56902G	60.65	74.00	-13.35	3	Horizontal	257	1.50	-
5785MHz	Pass	PK	17.35717G	67.51	68.20	-0.69	3	Horizontal	92	1.05	-
5825MHz	Pass	AV	5.8298G	100.48	Inf	-Inf	3	Vertical	105	2.75	-
5825MHz	Pass	PK	5.6198G	60.57	68.20	-7.63	3	Vertical	105	2.75	-
5825MHz	Pass	PK	5.8262G	110.58	Inf	-Inf	3	Vertical	105	2.75	-
5825MHz	Pass	PK	5.9354G	61.69	68.20	-6.51	3	Vertical	105	2.75	-
5825MHz	Pass	AV	5.8298G	107.78	Inf	-Inf	3	Horizontal	285	1.01	-
5825MHz	Pass	PK	5.5274G	61.10	68.20	-7.10	3	Horizontal	285	1.01	-
5825MHz	Pass	PK	5.8286G	117.36	Inf	-Inf	3	Horizontal	285	1.01	-
5825MHz	Pass	PK	5.9366G	62.76	68.20	-5.44	3	Horizontal	285	1.01	-
5825MHz	Pass	AV	11.6497G	49.72	54.00	-4.28	3	Vertical	263	2.77	-
5825MHz	Pass	PK	11.65208G	64.45	74.00	-9.55	3	Vertical	263	2.77	-
5825MHz	Pass	PK	17.47572G	67.86	68.20	-0.34	3	Vertical	38	3.00	-
5825MHz	Pass	AV	11.64976G	48.39	54.00	-5.61	3	Horizontal	219	2.88	-
5825MHz	Pass	PK	11.64984G	62.47	74.00	-11.53	3	Horizontal	219	2.88	-
5825MHz	Pass	PK	17.476G	67.59	68.20	-0.61	3	Horizontal	212	3.00	-
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-

Remark :

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Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992607

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5190MHz	Pass	AV	5.15G	49.77	54.00	-4.23	3	Vertical	103	2.95	-
5190MHz	Pass	AV	5.2036G	89.54	Inf	-Inf	3	Vertical	103	2.95	-
5190MHz	Pass	PK	5.1472G	63.33	74.00	-10.67	3	Vertical	103	2.95	-
5190MHz	Pass	PK	5.2048G	100.56	Inf	-Inf	3	Vertical	103	2.95	-
5190MHz	Pass	AV	5.15G	53.86	54.00	-0.14	3	Horizontal	234	1.00	-
5190MHz	Pass	AV	5.2032G	95.14	Inf	-Inf	3	Horizontal	234	1.00	-
5190MHz	Pass	PK	5.15G	69.44	74.00	-4.56	3	Horizontal	234	1.00	-
5190MHz	Pass	PK	5.2048G	106.09	Inf	-Inf	3	Horizontal	234	1.00	-
5190MHz	Pass	AV	15.57996G	48.18	54.00	-5.82	3	Vertical	304	2.29	-
5190MHz	Pass	PK	10.37424G	60.33	68.20	-7.87	3	Vertical	116	2.10	-
5190MHz	Pass	PK	15.58224G	61.02	74.00	-12.98	3	Vertical	304	2.29	-
5190MHz	Pass	AV	15.57474G	48.05	54.00	-5.95	3	Horizontal	257	1.97	-
5190MHz	Pass	PK	10.38288G	60.36	68.20	-7.84	3	Horizontal	144	1.72	-
5190MHz	Pass	PK	15.55968G	61.40	74.00	-12.60	3	Horizontal	257	1.97	-
5230MHz	Pass	AV	5.15G	49.81	54.00	-4.19	3	Vertical	103	2.92	-
5230MHz	Pass	AV	5.2436G	95.58	Inf	-Inf	3	Vertical	103	2.92	-
5230MHz	Pass	PK	5.1472G	62.30	74.00	-11.70	3	Vertical	103	2.92	-
5230MHz	Pass	PK	5.2448G	106.23	Inf	-Inf	3	Vertical	103	2.92	-
5230MHz	Pass	AV	5.1496G	53.68	54.00	-0.32	3	Horizontal	234	1.00	-
5230MHz	Pass	AV	5.2436G	100.82	Inf	-Inf	3	Horizontal	234	1.00	-
5230MHz	Pass	PK	5.1488G	67.78	74.00	-6.22	3	Horizontal	234	1.00	-
5230MHz	Pass	PK	5.2316G	111.75	Inf	-Inf	3	Horizontal	234	1.00	-
5230MHz	Pass	AV	15.68154G	47.97	54.00	-6.03	3	Vertical	341	2.20	-
5230MHz	Pass	PK	10.46126G	59.98	68.20	-8.22	3	Vertical	105	1.34	-
5230MHz	Pass	PK	15.68004G	60.94	74.00	-13.06	3	Vertical	341	2.20	-
5230MHz	Pass	AV	15.67716G	48.08	54.00	-5.92	3	Horizontal	321	2.50	-
5230MHz	Pass	PK	10.46708G	60.04	68.20	-8.16	3	Horizontal	358	1.64	-
5230MHz	Pass	PK	15.6828G	62.04	74.00	-11.96	3	Horizontal	321	2.50	-
5270MHz	Pass	AV	5.2856G	94.65	Inf	-Inf	3	Vertical	105	2.86	-
5270MHz	Pass	AV	5.35G	48.98	54.00	-5.02	3	Vertical	105	2.86	-
5270MHz	Pass	PK	5.2848G	105.30	Inf	-Inf	3	Vertical	105	2.86	-
5270MHz	Pass	PK	5.35G	65.83	74.00	-8.17	3	Vertical	105	2.86	-
5270MHz	Pass	AV	5.2836G	100.40	Inf	-Inf	3	Horizontal	234	1.01	-
5270MHz	Pass	AV	5.35G	53.20	54.00	-0.80	3	Horizontal	234	1.01	-
5270MHz	Pass	PK	5.2568G	111.11	Inf	-Inf	3	Horizontal	234	1.01	-
5270MHz	Pass	PK	5.3504G	72.03	74.00	-1.97	3	Horizontal	234	1.01	-
5270MHz	Pass	AV	15.7953G	47.43	54.00	-6.57	3	Vertical	199	1.43	-
5270MHz	Pass	PK	10.5538G	59.91	68.20	-8.29	3	Vertical	284	1.42	-
5270MHz	Pass	PK	15.79794G	60.84	74.00	-13.16	3	Vertical	199	1.43	-
5270MHz	Pass	AV	15.80352G	47.39	54.00	-6.61	3	Horizontal	70	1.95	-
5270MHz	Pass	PK	10.53514G	60.04	68.20	-8.16	3	Horizontal	291	1.43	-
5270MHz	Pass	PK	15.79698G	60.33	74.00	-13.67	3	Horizontal	70	1.95	-
5310MHz	Pass	AV	5.3112G	89.62	Inf	-Inf	3	Vertical	103	3.00	-
5310MHz	Pass	AV	5.3504G	49.55	54.00	-4.45	3	Vertical	103	3.00	-
5310MHz	Pass	PK	5.3116G	100.53	Inf	-Inf	3	Vertical	103	3.00	-
5310MHz	Pass	PK	5.3504G	65.72	74.00	-8.28	3	Vertical	103	3.00	-
5310MHz	Pass	AV	5.3232G	95.38	Inf	-Inf	3	Horizontal	236	1.00	-
5310MHz	Pass	AV	5.35G	53.71	54.00	-0.29	3	Horizontal	236	1.00	-
5310MHz	Pass	PK	5.3248G	106.36	Inf	-Inf	3	Horizontal	236	1.00	-

Remark :

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Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992607

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5310MHz	Pass	PK	5.35G	70.19	74.00	-3.81	3	Horizontal	236	1.00	-
5310MHz	Pass	AV	10.61688G	46.62	54.00	-7.38	3	Vertical	16	1.80	-
5310MHz	Pass	AV	15.93978G	46.71	54.00	-7.29	3	Vertical	163	1.91	-
5310MHz	Pass	PK	10.62192G	60.27	74.00	-13.73	3	Vertical	16	1.80	-
5310MHz	Pass	PK	15.92136G	59.67	74.00	-14.33	3	Vertical	163	1.91	-
5310MHz	Pass	AV	10.60542G	46.61	54.00	-7.39	3	Horizontal	307	1.85	-
5310MHz	Pass	AV	15.9384G	46.78	54.00	-7.22	3	Horizontal	239	1.28	-
5310MHz	Pass	PK	10.62972G	59.97	74.00	-14.03	3	Horizontal	307	1.85	-
5310MHz	Pass	PK	15.94002G	59.75	74.00	-14.25	3	Horizontal	239	1.28	-
5510MHz	Pass	AV	5.4584G	48.07	54.00	-5.93	3	Vertical	73	2.92	-
5510MHz	Pass	AV	5.5252G	91.19	Inf	-Inf	3	Vertical	73	2.92	-
5510MHz	Pass	PK	5.466G	63.27	68.20	-4.93	3	Vertical	73	2.92	-
5510MHz	Pass	PK	5.5264G	100.70	Inf	-Inf	3	Vertical	73	2.92	-
5510MHz	Pass	AV	5.46G	49.90	54.00	-4.10	3	Horizontal	232	1.00	-
5510MHz	Pass	AV	5.5084G	95.73	Inf	-Inf	3	Horizontal	232	1.00	-
5510MHz	Pass	PK	5.4668G	67.95	68.20	-0.25	3	Horizontal	232	1.00	-
5510MHz	Pass	PK	5.508G	105.30	Inf	-Inf	3	Horizontal	232	1.00	-
5510MHz	Pass	AV	11.0221G	47.94	54.00	-6.06	3	Vertical	36	2.10	-
5510MHz	Pass	PK	11.02288G	60.65	74.00	-13.35	3	Vertical	36	2.10	-
5510MHz	Pass	PK	16.52958G	62.22	68.20	-5.98	3	Vertical	292	2.00	-
5510MHz	Pass	AV	11.0083G	47.98	54.00	-6.02	3	Horizontal	234	1.39	-
5510MHz	Pass	PK	11.02636G	61.26	74.00	-12.74	3	Horizontal	234	1.39	-
5510MHz	Pass	PK	16.5165G	61.88	68.20	-6.32	3	Horizontal	123	1.23	-
5550MHz	Pass	AV	5.4568G	47.39	54.00	-6.61	3	Vertical	303	2.94	-
5550MHz	Pass	AV	5.5644G	92.23	Inf	-Inf	3	Vertical	303	2.94	-
5550MHz	Pass	PK	5.4688G	60.39	68.20	-7.81	3	Vertical	303	2.94	-
5550MHz	Pass	PK	5.56G	101.71	Inf	-Inf	3	Vertical	303	2.94	-
5550MHz	Pass	AV	5.46G	51.63	54.00	-2.37	3	Horizontal	231	1.00	-
5550MHz	Pass	AV	5.5516G	101.59	Inf	-Inf	3	Horizontal	231	1.00	-
5550MHz	Pass	PK	5.4672G	67.06	68.20	-1.14	3	Horizontal	231	1.00	-
5550MHz	Pass	PK	5.5632G	111.12	Inf	-Inf	3	Horizontal	231	1.00	-
5550MHz	Pass	AV	11.09106G	47.81	54.00	-6.19	3	Vertical	360	1.28	-
5550MHz	Pass	PK	11.1117G	60.80	74.00	-13.20	3	Vertical	360	1.28	-
5550MHz	Pass	PK	16.66404G	63.18	68.20	-5.02	3	Vertical	8	2.10	-
5550MHz	Pass	AV	11.10036G	47.89	54.00	-6.11	3	Horizontal	209	2.80	-
5550MHz	Pass	PK	11.1012G	61.15	74.00	-12.85	3	Horizontal	209	2.80	-
5550MHz	Pass	PK	16.65306G	62.93	68.20	-5.27	3	Horizontal	25	1.02	-
5670MHz	Pass	AV	5.6712G	92.64	Inf	-Inf	3	Vertical	152	1.00	-
5670MHz	Pass	PK	5.6676G	102.34	Inf	-Inf	3	Vertical	152	1.00	-
5670MHz	Pass	PK	5.7288G	62.83	68.20	-5.37	3	Vertical	152	1.00	-
5670MHz	Pass	AV	5.6718G	99.10	Inf	-Inf	3	Horizontal	24	1.01	-
5670MHz	Pass	PK	5.6676G	109.00	Inf	-Inf	3	Horizontal	24	1.01	-
5670MHz	Pass	PK	5.7276G	67.99	68.20	-0.21	3	Horizontal	24	1.01	-
5670MHz	Pass	AV	11.33136G	47.11	54.00	-6.89	3	Vertical	165	1.07	-
5670MHz	Pass	PK	11.33742G	61.53	74.00	-12.47	3	Vertical	165	1.07	-
5670MHz	Pass	PK	16.9995G	64.71	68.20	-3.49	3	Vertical	180	1.96	-
5670MHz	Pass	AV	11.33016G	47.14	54.00	-6.86	3	Horizontal	84	1.50	-
5670MHz	Pass	PK	11.34114G	61.41	74.00	-12.59	3	Horizontal	84	1.50	-
5670MHz	Pass	PK	16.99668G	64.05	68.20	-4.15	3	Horizontal	144	2.29	-

Remark :

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$$\text{Level (dBuV/m)} = \text{Raw(Read Level)} + \text{AF(Antenna Factor)} + \text{CL(Cable Loss)} - \text{PA(Preamp Factor)}$$

992607



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4544G	46.95	54.00	-7.05	3	Vertical	163	1.05	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.6944G	95.42	Inf	-Inf	3	Vertical	163	1.05	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4664G	60.14	68.20	-8.06	3	Vertical	163	1.05	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.6956G	105.20	Inf	-Inf	3	Vertical	163	1.05	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.854G	62.51	68.20	-5.69	3	Vertical	163	1.05	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4556G	47.78	54.00	-6.22	3	Horizontal	276	1.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7112G	105.09	Inf	-Inf	3	Horizontal	276	1.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4652G	61.12	68.20	-7.08	3	Horizontal	276	1.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.7088G	115.41	Inf	-Inf	3	Horizontal	276	1.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.8528G	68.06	68.20	-0.14	3	Horizontal	276	1.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.41988G	48.08	54.00	-5.92	3	Vertical	18	2.78	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.42084G	61.58	74.00	-12.42	3	Vertical	18	2.78	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.12658G	67.02	68.20	-1.18	3	Vertical	213	2.16	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.42066G	47.89	54.00	-6.11	3	Horizontal	211	2.81	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.42336G	61.24	74.00	-12.76	3	Horizontal	211	2.81	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.1243G	65.29	68.20	-2.91	3	Horizontal	152	2.39	-
5755MHz	Pass	AV	5.7706G	95.99	Inf	-Inf	3	Vertical	96	2.92	-
5755MHz	Pass	PK	5.5846G	61.33	68.20	-6.87	3	Vertical	96	2.92	-
5755MHz	Pass	PK	5.7682G	105.79	Inf	-Inf	3	Vertical	96	2.92	-
5755MHz	Pass	PK	5.9734G	61.62	68.20	-6.58	3	Vertical	96	2.92	-
5755MHz	Pass	AV	5.7562G	103.46	Inf	-Inf	3	Horizontal	278	1.00	-
5755MHz	Pass	PK	5.6482G	67.52	68.20	-0.68	3	Horizontal	278	1.00	-
5755MHz	Pass	PK	5.7538G	113.45	Inf	-Inf	3	Horizontal	278	1.00	-
5755MHz	Pass	PK	5.9254G	61.82	68.20	-6.38	3	Horizontal	278	1.00	-
5755MHz	Pass	AV	11.50952G	47.77	54.00	-6.23	3	Vertical	267	2.29	-
5755MHz	Pass	PK	11.51312G	61.13	74.00	-12.87	3	Vertical	267	2.29	-
5755MHz	Pass	PK	17.26974G	67.24	68.20	-0.96	3	Vertical	210	2.85	-
5755MHz	Pass	AV	11.50826G	47.34	54.00	-6.66	3	Horizontal	271	1.50	-
5755MHz	Pass	PK	11.51372G	60.75	74.00	-13.25	3	Horizontal	271	1.50	-
5755MHz	Pass	PK	17.27262G	66.39	68.20	-1.81	3	Horizontal	339	2.86	-
5795MHz	Pass	AV	5.8106G	94.69	Inf	-Inf	3	Vertical	64	2.42	-
5795MHz	Pass	PK	5.645G	60.63	68.20	-7.57	3	Vertical	64	2.42	-
5795MHz	Pass	PK	5.8094G	104.44	Inf	-Inf	3	Vertical	64	2.42	-
5795MHz	Pass	PK	5.9282G	63.20	68.20	-5.00	3	Vertical	64	2.42	-
5795MHz	Pass	AV	5.7962G	101.46	Inf	-Inf	3	Horizontal	8	1.50	-
5795MHz	Pass	PK	5.6498G	64.37	68.20	-3.83	3	Horizontal	8	1.50	-
5795MHz	Pass	PK	5.7806G	111.52	Inf	-Inf	3	Horizontal	8	1.50	-
5795MHz	Pass	PK	5.9378G	67.34	68.20	-0.86	3	Horizontal	8	1.50	-
5795MHz	Pass	PK	11.5933G	62.24	74.00	-11.76	3	Vertical	271	2.93	-
5795MHz	Pass	AV	11.59006G	49.09	54.00	-4.91	3	Vertical	271	2.93	-
5795MHz	Pass	PK	17.39088G	67.15	68.20	-1.05	3	Vertical	211	2.95	-
5795MHz	Pass	AV	11.6008G	47.40	54.00	-6.60	3	Horizontal	68	1.00	-
5795MHz	Pass	PK	11.58178G	60.81	74.00	-13.19	3	Horizontal	68	1.00	-
5795MHz	Pass	PK	17.39178G	67.77	68.20	-0.43	3	Horizontal	327	2.58	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.15G	49.74	54.00	-4.26	3	Vertical	108	2.92	-
5210MHz	Pass	AV	5.237G	87.49	Inf	-Inf	3	Vertical	108	2.92	-
5210MHz	Pass	AV	5.457G	47.57	54.00	-6.43	3	Vertical	108	2.92	-
5210MHz	Pass	PK	5.15G	62.93	74.00	-11.07	3	Vertical	108	2.92	-

Remark :

Page No. : E12 of E178

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992607



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5210MHz	Pass	PK	5.228G	96.66	Inf	-Inf	3	Vertical	108	2.92	-
5210MHz	Pass	PK	5.432G	60.27	74.00	-13.73	3	Vertical	108	2.92	-
5210MHz	Pass	AV	5.149G	53.54	54.00	-0.46	3	Horizontal	237	1.00	-
5210MHz	Pass	AV	5.228G	93.64	Inf	-Inf	3	Horizontal	237	1.00	-
5210MHz	Pass	AV	5.452G	47.68	54.00	-6.32	3	Horizontal	237	1.00	-
5210MHz	Pass	PK	5.149G	67.61	74.00	-6.39	3	Horizontal	237	1.00	-
5210MHz	Pass	PK	5.227G	103.09	Inf	-Inf	3	Horizontal	237	1.00	-
5210MHz	Pass	PK	5.363G	60.12	74.00	-13.88	3	Horizontal	237	1.00	-
5210MHz	Pass	AV	15.62769G	48.67	54.00	-5.33	3	Vertical	6	1.50	-
5210MHz	Pass	PK	10.42003G	61.08	68.20	-7.12	3	Vertical	145	1.53	-
5210MHz	Pass	PK	15.63171G	61.47	74.00	-12.53	3	Vertical	6	1.50	-
5210MHz	Pass	AV	15.6281G	48.61	54.00	-5.39	3	Horizontal	354	2.08	-
5210MHz	Pass	PK	10.41022G	60.26	68.20	-7.94	3	Horizontal	123	1.00	-
5210MHz	Pass	PK	15.63152G	61.66	74.00	-12.34	3	Horizontal	354	2.08	-
5290MHz	Pass	AV	5.092G	48.77	54.00	-5.23	3	Vertical	110	2.87	-
5290MHz	Pass	AV	5.299G	87.95	Inf	-Inf	3	Vertical	110	2.87	-
5290MHz	Pass	AV	5.352G	49.58	54.00	-4.42	3	Vertical	110	2.87	-
5290MHz	Pass	PK	5.092G	60.87	74.00	-13.13	3	Vertical	110	2.87	-
5290MHz	Pass	PK	5.307G	97.29	Inf	-Inf	3	Vertical	110	2.87	-
5290MHz	Pass	PK	5.518G	60.09	68.20	-8.11	3	Vertical	110	2.87	-
5290MHz	Pass	AV	5.129G	48.92	54.00	-5.08	3	Horizontal	236	1.00	-
5290MHz	Pass	AV	5.299G	93.51	Inf	-Inf	3	Horizontal	236	1.00	-
5290MHz	Pass	AV	5.352G	53.62	54.00	-0.38	3	Horizontal	236	1.00	-
5290MHz	Pass	PK	5.075G	60.82	74.00	-13.18	3	Horizontal	236	1.00	-
5290MHz	Pass	PK	5.307G	102.96	Inf	-Inf	3	Horizontal	236	1.00	-
5290MHz	Pass	PK	5.353G	69.47	74.00	-4.53	3	Horizontal	236	1.00	-
5290MHz	Pass	AV	15.87119G	47.62	54.00	-6.38	3	Vertical	259	1.30	-
5290MHz	Pass	PK	10.58082G	60.59	68.20	-7.61	3	Vertical	314	1.09	-
5290MHz	Pass	PK	15.87248G	60.93	74.00	-13.07	3	Vertical	259	1.30	-
5290MHz	Pass	AV	15.86753G	47.89	54.00	-6.11	3	Horizontal	254	1.32	-
5290MHz	Pass	PK	10.58089G	60.54	68.20	-7.66	3	Horizontal	207	1.00	-
5290MHz	Pass	PK	15.87206G	60.54	74.00	-13.46	3	Horizontal	254	1.32	-
5530MHz	Pass	AV	5.456G	47.87	54.00	-6.13	3	Vertical	172	1.00	-
5530MHz	Pass	AV	5.557G	85.92	Inf	-Inf	3	Vertical	172	1.00	-
5530MHz	Pass	PK	5.295G	59.78	68.20	-8.42	3	Vertical	172	1.00	-
5530MHz	Pass	PK	5.548G	94.57	Inf	-Inf	3	Vertical	172	1.00	-
5530MHz	Pass	PK	5.777G	62.21	68.20	-5.99	3	Vertical	172	1.00	-
5530MHz	Pass	AV	5.457G	52.96	54.00	-1.04	3	Horizontal	284	1.00	-
5530MHz	Pass	AV	5.548G	97.58	Inf	-Inf	3	Horizontal	284	1.00	-
5530MHz	Pass	PK	5.469G	68.06	68.20	-0.14	3	Horizontal	284	1.00	-
5530MHz	Pass	PK	5.548G	107.05	Inf	-Inf	3	Horizontal	284	1.00	-
5530MHz	Pass	PK	5.738G	61.51	68.20	-6.69	3	Horizontal	284	1.00	-
5530MHz	Pass	AV	11.05769G	48.51	54.00	-5.49	3	Vertical	149	1.50	-
5530MHz	Pass	PK	11.06128G	61.50	74.00	-12.50	3	Vertical	149	1.50	-
5530MHz	Pass	PK	16.59122G	62.91	68.20	-5.29	3	Vertical	3	1.50	-
5530MHz	Pass	AV	11.05856G	48.61	54.00	-5.39	3	Horizontal	92	1.50	-
5530MHz	Pass	PK	11.05766G	61.83	74.00	-12.17	3	Horizontal	92	1.50	-
5530MHz	Pass	PK	16.59208G	63.13	68.20	-5.07	3	Horizontal	138	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4548G	47.78	54.00	-6.22	3	Vertical	102	3.00	-

Remark :

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Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

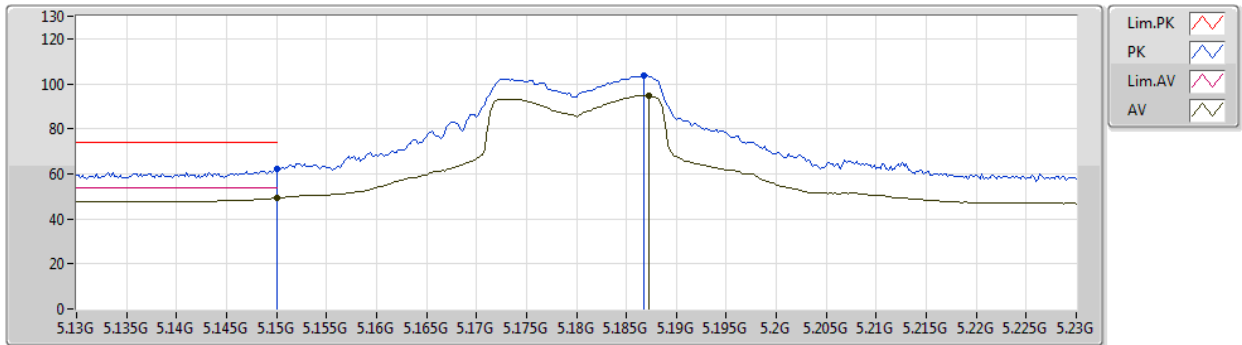
992607

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.708G	93.24	Inf	-Inf	3	Vertical	102	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4608G	60.15	68.20	-8.05	3	Vertical	102	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.708G	102.27	Inf	-Inf	3	Vertical	102	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8556G	63.16	68.20	-5.04	3	Vertical	102	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4548G	49.97	54.00	-4.03	3	Horizontal	283	1.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.672G	102.62	Inf	-Inf	3	Horizontal	283	1.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	63.13	68.20	-5.07	3	Horizontal	283	1.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6708G	112.12	Inf	-Inf	3	Horizontal	283	1.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8532G	68.05	68.20	-0.15	3	Horizontal	283	1.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.3806G	48.02	54.00	-5.98	3	Vertical	282	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.37764G	61.15	74.00	-12.85	3	Vertical	282	3.00	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.0718G	65.72	68.20	-2.48	3	Vertical	188	2.99	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.38134G	46.76	54.00	-7.24	3	Horizontal	294	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.38052G	60.77	74.00	-13.23	3	Horizontal	294	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.0704G	65.45	68.20	-2.75	3	Horizontal	250	2.30	-
5775MHz	Pass	AV	5.7834G	92.34	Inf	-Inf	3	Vertical	159	1.00	-
5775MHz	Pass	PK	5.6502G	64.83	68.35	-3.52	3	Vertical	159	1.00	-
5775MHz	Pass	PK	5.7918G	101.49	Inf	-Inf	3	Vertical	159	1.00	-
5775MHz	Pass	PK	5.9262G	62.12	68.20	-6.08	3	Vertical	159	1.00	-
5775MHz	Pass	AV	5.793G	98.64	Inf	-Inf	3	Horizontal	27	1.02	-
5775MHz	Pass	PK	5.6502G	68.06	68.35	-0.29	3	Horizontal	27	1.02	-
5775MHz	Pass	PK	5.793G	107.75	Inf	-Inf	3	Horizontal	27	1.02	-
5775MHz	Pass	PK	5.931G	68.09	68.20	-0.11	3	Horizontal	27	1.02	-
5775MHz	Pass	AV	11.55064G	48.13	54.00	-5.87	3	Vertical	266	2.50	-
5775MHz	Pass	PK	11.55207G	60.49	74.00	-13.51	3	Vertical	266	2.50	-
5775MHz	Pass	PK	17.32304G	66.95	68.20	-1.25	3	Vertical	360	1.30	-
5775MHz	Pass	AV	11.54999G	47.83	54.00	-6.17	3	Horizontal	159	1.50	-
5775MHz	Pass	PK	11.54858G	60.82	74.00	-13.18	3	Horizontal	159	1.50	-
5775MHz	Pass	PK	17.3248G	66.79	68.20	-1.41	3	Horizontal	49	1.50	-

802.11a_Nss1,(6Mbps)_2TX

24/10/2019

5180MHz_TX

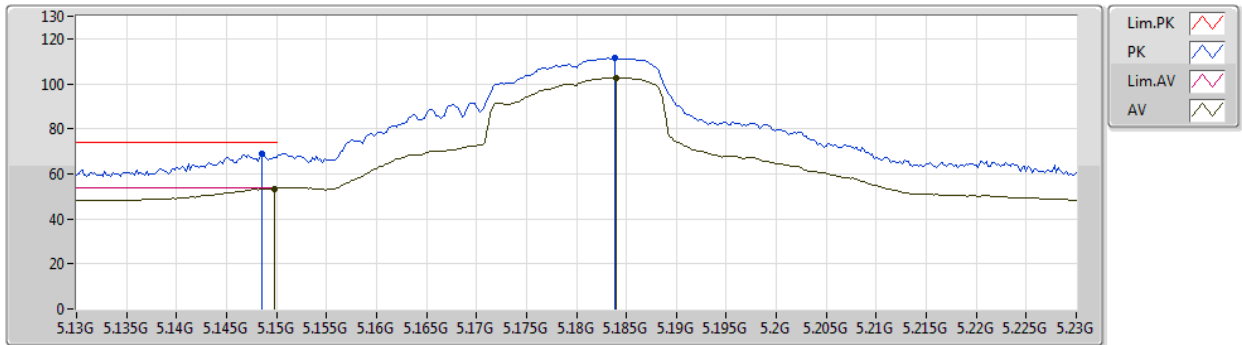


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.15G	49.21	54.00	-4.79	7.83	3	Vertical	101	3.00	-	41.38	31.80	10.08	34.05
AV	5.1872G	94.69	Inf	-Inf	7.68	3	Vertical	101	3.00	-	87.01	31.65	10.08	34.05
PK	5.15G	62.05	74.00	-11.95	7.83	3	Vertical	101	3.00	-	54.22	31.80	10.08	34.05
PK	5.1868G	103.49	Inf	-Inf	7.68	3	Vertical	101	3.00	-	95.81	31.65	10.08	34.05

802.11a_Nss1,(6Mbps)_2TX

24/10/2019

5180MHz_TX

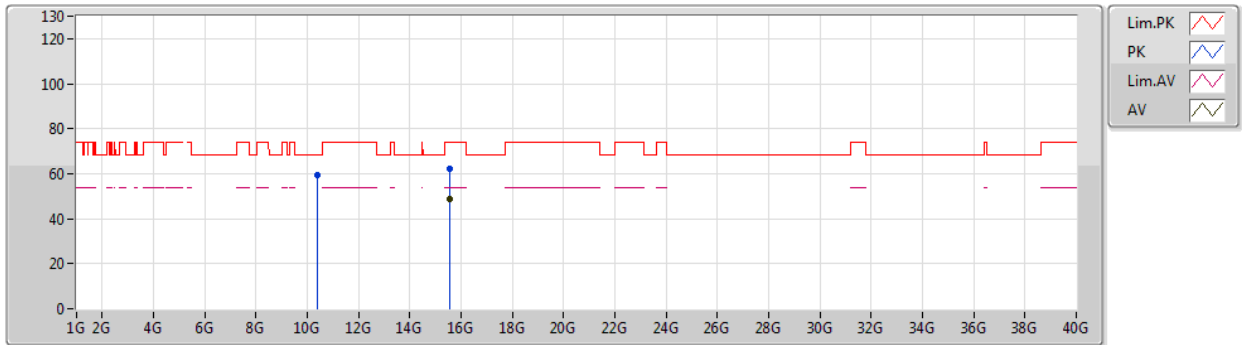


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1498G	53.51	54.00	-0.49	7.83	3	Horizontal	258	1.00	-	45.68	31.80	10.08	34.05
AV	5.184G	102.56	Inf	-Inf	7.69	3	Horizontal	258	1.00	-	94.87	31.66	10.08	34.05
PK	5.1486G	68.84	74.00	-5.16	7.84	3	Horizontal	258	1.00	-	61.00	31.81	10.08	34.05
PK	5.1838G	111.32	Inf	-Inf	7.69	3	Horizontal	258	1.00	-	103.63	31.66	10.08	34.05

802.11a_Nss1,(6Mbps)_2TX

24/10/2019

5180MHz_TX

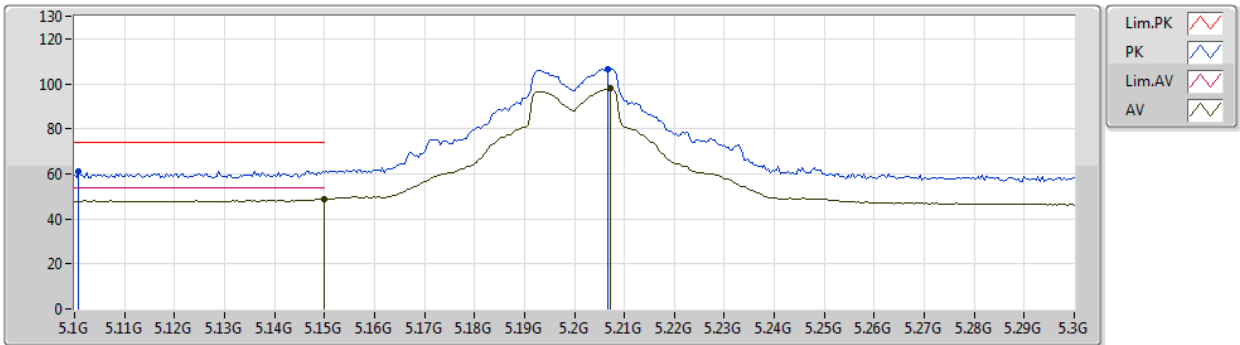


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.54348G	48.82	54.00	-5.18	18.65	3	Vertical	0	2.22	-	30.17	38.92	13.74	34.01
PK	10.36984G	59.45	68.20	-8.75	17.81	3	Vertical	61	2.32	-	41.64	39.38	12.97	34.54
PK	15.5409G	62.05	74.00	-11.95	18.65	3	Vertical	0	2.22	-	43.40	38.92	13.74	34.01

802.11a_Nss1,(6Mbps)_2TX

24/10/2019

5200MHz_TX

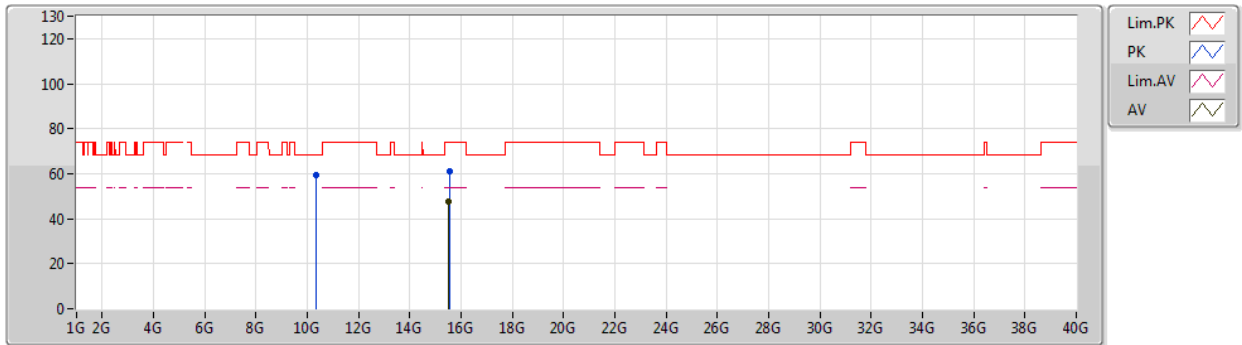


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.15G	48.78	54.00	-5.22	7.83	3	Vertical	102	3.00	-	40.95	31.80	10.08	34.05
AV	5.2072G	97.83	Inf	-Inf	7.60	3	Vertical	102	3.00	-	90.23	31.57	10.08	34.05
PK	5.1008G	61.29	74.00	-12.71	8.03	3	Vertical	102	3.00	-	53.26	32.00	10.08	34.05
PK	5.2068G	106.52	Inf	-Inf	7.60	3	Vertical	102	3.00	-	98.92	31.57	10.08	34.05

802.11a_Nss1,(6Mbps)_2TX

24/10/2019

5180MHz_TX

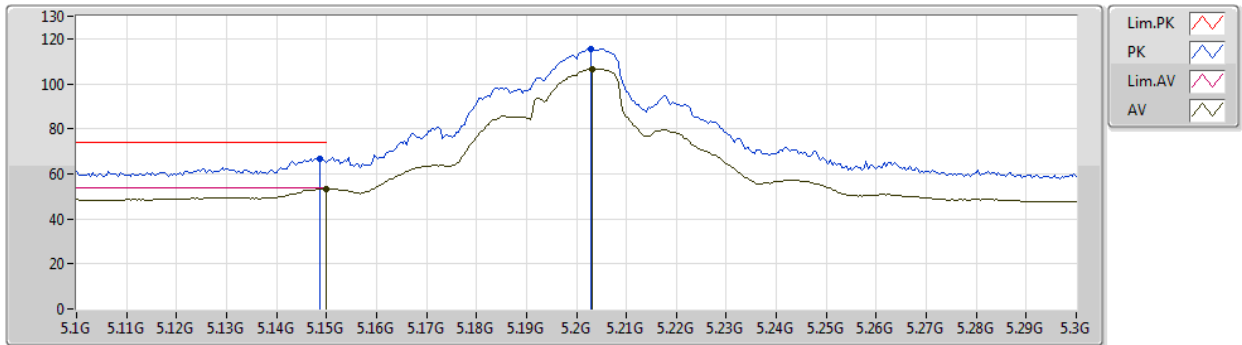


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.5262G	47.71	54.00	-6.29	18.71	3	Horizontal	135	1.50	-	29.00	38.97	13.74	34.00
PK	10.35406G	59.48	68.20	-8.72	17.77	3	Horizontal	301	2.38	-	41.71	39.36	12.96	34.55
PK	15.5367G	60.83	74.00	-13.17	18.67	3	Horizontal	135	1.50	-	42.16	38.94	13.74	34.01

802.11a_Nss1,(6Mbps)_2TX

24/10/2019

5200MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.15G	53.41	54.00	-0.59	7.83	3	Horizontal	260	1.00	-	45.58	31.80	10.08	34.05
AV	5.2032G	106.61	Inf	-Inf	7.62	3	Horizontal	260	1.00	-	98.99	31.59	10.08	34.05
PK	5.1488G	66.91	74.00	-7.09	7.83	3	Horizontal	260	1.00	-	59.08	31.80	10.08	34.05
PK	5.2028G	115.71	Inf	-Inf	7.62	3	Horizontal	260	1.00	-	108.09	31.59	10.08	34.05