

FCC Test Report

Equipment : Wireless-AC/N Dual Radio Access Point with 2.5GbE LAN

Brand Name : CISCO

Model No. : WAP581

FCC ID : PD5-WAP581

Standard : 47 CFR FCC Part 15.407

Operating Band : 5150 MHz – 5250 MHz
5250 MHz – 5350 MHz
5470 MHz – 5725 MHz
5725 MHz – 5850 MHz

Applicant : Delta Networks, Inc.
No.252, Shang Ying Rd., Kuei San District, Taoyuan City
33341, Taiwan R.O.C.

Manufacturer : Delta Networks, Inc.
No.252, Shang Ying Rd., Kuei San District, Taoyuan City
33341, Taiwan R.O.C.

Function : ☐ Outdoor; ☒ Indoor; ☐ Fixed P2P
☐ Client

TPC Function : TPC

The product sample received on Aug. 18, 2016 and completely tested on Nov. 30, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

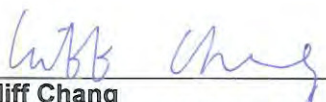

Cliff Chang
SPORTON INTERNATIONAL INC.





Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Testing Applied Standards	8
1.3	Testing Location Information.....	8
1.4	Measurement Uncertainty	8
2	TEST CONFIGURATION OF EUT	9
2.1	Test Channel Mode	9
2.2	The Worst Case Measurement Configuration.....	12
2.3	EUT Operation during Test	14
2.4	Accessories	15
2.5	Support Equipment.....	15
2.6	Test Setup Diagram	17
3	TRANSMITTER TEST RESULT	20
3.1	AC Power-line Conducted Emissions	20
3.2	Emission Bandwidth	23
3.3	Maximum Conducted Output Power	66
3.4	Peak Power Spectral Density.....	78
3.5	Unwanted Emissions.....	123
3.6	Frequency Stability.....	363
4	TEST EQUIPMENT AND CALIBRATION DATA	376
APPENDIX A. TEST PHOTOS		
APPENDIX B. TEST RESULTS OF RADIATED EMISSION CO-LOCATION		



Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied



SPORTON INTERNATIONAL INC.
TEL : 886-3-3273456
FAX : 886-3-3270973
FCC ID: PD5-WAP581

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		5500-5720	100-144 [12]
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		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]

Mode	Bandwidth(MHz)	TX
802.11a	20	4
802.11n HT20	20	4
802.11n HT40	40	4
802.11ac VHT20	20	4
802.11ac VHT40	40	4
802.11ac VHT80	80	4
802.11n HT20(BF)	20	4
802.11n HT40(BF)	40	4
802.11ac VHT20(BF)	20	4
802.11ac VHT40(BF)	40	4
802.11ac VHT80(BF)	80	4

Note:

- ◆ 5.2G/5.2G-I(IC) is the 5.2GHz Band (5.15-5.25GHz).
- ◆ 5.3G/5.3G-I(IC) is the 5.3GHz Band (5.25-5.35GHz).
- ◆ 5.6G is the 5.6GHz Band (5.47-5.725GHz) or w/o TDWR (5.47-5.6GHz and 5.65-5.725GHz).
- ◆ 5.6G-I(IC) is the 5.6GHz IC Band w/o TDWR (5.47-5.6GHz and 5.65-5.725GHz).
- ◆ 5.8G/5.8G-I(IC) is the 5.8GHz Band (5.725-5.850GHz).
- ◆ 5.3G-T(Taiwan) is the 5.3GHz TW Band (5.25-5.35GHz).
- ◆ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ◆ BF is the Beam-forming mode.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
					2.4GHz	5GHz
1	Master Wave	SSP-14552	PIFA Antenna	I-PEX	3.50	5.51
2	Master Wave	SSP-14552	PIFA Antenna	I-PEX	3.61	5.50
3	Master Wave	SSP-14552	PIFA Antenna	I-PEX	3.59	6.23
4	Master Wave	SSP-14552	PIFA Antenna	I-PEX	3.61	5.70

Note: The EUT four antennas.

Ant 2~Ant 4 connect to chain 2~chain 4 (port1~port 3) for 2.4G

Ant 1~Ant 4 connect to chain 1~chain 4 (port1~port 4) for 5G

For 2.4GHz IEEE 802.11b/g/n/ac mode (3TX/3RX):

Chain 2, chain 3 and chain 4 (port1~port 3) could transmit/receive simultaneously.

For 5GHz IEEE 802.11n/a/ac mode (4TX/4RX):

Chain 1, chain 2, chain 3 and chain 4 (port1~port 4) could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	Bandwidth (MHz)	Data Rate	Duty Cycle	T(s)	VBW(Hz) $\geq 1/T$
802.11a	20	1Mbps	0.984	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20	20	MCS0-Nss1	0.984	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	40	MCS0-Nss1	0.962	940u	3k
802.11ac VHT80	80	MCS0-Nss1	0.944	462.5u	3k
802.11ac VHT20(BF)	20	MCS0-Nss1	0.943	3.815m	300
802.11ac VHT40(BF)	40	MCS0-Nss1	0.861	4.588m	300
802.11ac VHT80(BF)	80	MCS0-Nss1	0.94	350u	3k

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE			
Beamforming Function	☒	With beamforming in 802.11n/ac	☐	Without beamforming
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz

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
- ♦ FCC KDB 789033 D02 v01r03
- ♦ FCC KDB 644545 D03 v01
- ♦ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.	TEL : 886-3-327-3456	FAX : 886-3-318-0055
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Andy Tsai & Serway Li	22°C / 54%	Nov. 13, 2016 ~ Nov. 15, 2016
Radiated	03CH01-CB	Jay Luo & Stim Sung & Zero Chen	22°C / 54%	Nov. 08, 2016 ~ Nov. 30, 2016
AC Conduction	CO01-CB	Gavin Peng & Kane Liu	23°C / 66%	Oct. 27, 2016

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%
Frequency Stability	6.06×10^{-8}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Bandwidth (MHz)	Data Rate	TX	Frequency (MHz)	Power Setting
802.11a	20	6Mbps	4	5180	72
802.11a	20	6Mbps	4	5200	72
802.11a	20	6Mbps	4	5240	72
802.11a	20	6Mbps	4	5260	47
802.11a	20	6Mbps	4	5300	47
802.11a	20	6Mbps	4	5320	48
802.11a	20	6Mbps	4	5500	48
802.11a	20	6Mbps	4	5580	48
802.11a	20	6Mbps	4	5700	48
802.11a	20	6Mbps	4	5720	48
802.11a	20	6Mbps	4	5720	48
802.11a	20	6Mbps	4	5745	94
802.11a	20	6Mbps	4	5785	94
802.11a	20	6Mbps	4	5825	94
802.11ac VHT20	20	MCS0-Nss1	4	5180	72
802.11ac VHT20	20	MCS0-Nss1	4	5200	73
802.11ac VHT20	20	MCS0-Nss1	4	5240	73
802.11ac VHT20	20	MCS0-Nss1	4	5260	48
802.11ac VHT20	20	MCS0-Nss1	4	5300	48
802.11ac VHT20	20	MCS0-Nss1	4	5320	48
802.11ac VHT20	20	MCS0-Nss1	4	5500	48
802.11ac VHT20	20	MCS0-Nss1	4	5580	48
802.11ac VHT20	20	MCS0-Nss1	4	5700	48
802.11ac VHT20	20	MCS0-Nss1	4	5720	48
802.11ac VHT20	20	MCS0-Nss1	4	5720	48
802.11ac VHT20	20	MCS0-Nss1	4	5745	94
802.11ac VHT20	20	MCS0-Nss1	4	5785	94
802.11ac VHT20	20	MCS0-Nss1	4	5825	94
802.11ac VHT40	40	MCS0-Nss1	4	5190	60
802.11ac VHT40	40	MCS0-Nss1	4	5230	85
802.11ac VHT40	40	MCS0-Nss1	4	5270	61
802.11ac VHT40	40	MCS0-Nss1	4	5310	61



Mode	Bandwidth (MHz)	Data Rate	TX	Frequency (MHz)	Power Setting
802.11ac VHT40	40	MCS0-Nss1	4	5510	61
802.11ac VHT40	40	MCS0-Nss1	4	5550	61
802.11ac VHT40	40	MCS0-Nss1	4	5670	61
802.11ac VHT40	40	MCS0-Nss1	4	5710	61
802.11ac VHT40	40	MCS0-Nss1	4	5710	61
802.11ac VHT40	40	MCS0-Nss1	4	5755	95
802.11ac VHT40	40	MCS0-Nss1	4	5795	95
802.11ac VHT80	80	MCS0-Nss1	4	5210	64
802.11ac VHT80	80	MCS0-Nss1	4	5290	58
802.11ac VHT80	80	MCS0-Nss1	4	5530	58
802.11ac VHT80	80	MCS0-Nss1	4	5610	69
802.11ac VHT80	80	MCS0-Nss1	4	5690	72
802.11ac VHT80	80	MCS0-Nss1	4	5690	72
802.11ac VHT80	80	MCS0-Nss1	4	5775	91
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5180	72
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5200	72
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5240	72
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5260	47
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5300	47
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5320	47
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5500	48
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5580	48
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5700	48
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5720	49
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5720	49
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5745	72
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5785	74
802.11ac VHT20(BF)	20	MCS0-Nss1	4	5825	73
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5190	66
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5230	72
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5270	47
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5310	47
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5510	47
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5550	47
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5670	47
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5710	51

Mode	Bandwidth (MHz)	Data Rate	TX	Frequency (MHz)	Power Setting
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5710	51
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5755	73
802.11ac VHT40(BF)	40	MCS0-Nss1	4	5795	73
802.11ac VHT80(BF)	80	MCS0-Nss1	4	5210	68
802.11ac VHT80(BF)	80	MCS0-Nss1	4	5290	48
802.11ac VHT80(BF)	80	MCS0-Nss1	4	5530	48
802.11ac VHT80(BF)	80	MCS0-Nss1	4	5610	48
802.11ac VHT80(BF)	80	MCS0-Nss1	4	5690	52
802.11ac VHT80(BF)	80	MCS0-Nss1	4	5690	52
802.11ac VHT80(BF)	80	MCS0-Nss1	4	5775	74

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- ♦ There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode, Beamforming mode and non-beamforming mode has been test and record in this test report.

2.2 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	EUT + WALN function 2.4G + Adapter
2	EUT + WALN function 5G + Adapter
Mode 2 has been evaluated to be the worst case after evaluating. Consequently, measurement will follow this same test mode.	
3	EUT + WALN function 5G + PoE
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density Frequency Stability
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	EUT in Z axis + WALN function 2.4G + Adapter
2	EUT in Y axis + WALN function 2.4G + Adapter
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Y axis + WALN function 5G + Adapter
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in Y axis + WALN function 5G + PoE
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at Y axis and Z axis position for radiated emission test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis + WALN function + Adapter



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	EUT in Y axis + WALN function 2.4G + WALN function 5G + Adapter
2	EUT in Z axis + WALN function 2.4G + WALN function 5G + Adapter
For operating mode 1 is the worst case and it was record in this test report. Refer to Sporton Test Report No.: FA6N1118 for Co-location RF Exposure Evaluation and Appendix B for Radiated Emission Co-location.	

Note: The PoE as below is for measurement only and would not be marketed.

Power	Brand	Model	FCC ID
PoE	CISCO	SB-PWR-INJ2	DoC



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet, LanTest20.
3. Executed "Lantest.exe " to link with the remote workstation to receive and transmit packet by RX Device and transmit duty cycle no less 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	AC Adapter	DELTA	ADP-48DR BL	INPUT: 100-240V~1.5A 50-60Hz OUTPUT: 48V - 1.25A LPS
Other				
Wall-mounted rack*1				

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC
2	NB	DELL	E6430	DoC
3	NB	DELL	E6430	DoC
4	NB	DELL	E6430	DoC

For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

For Test Site No: 03CH01-CB (above 1GHz)

For non-beamforming mode

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

For beamforming mode

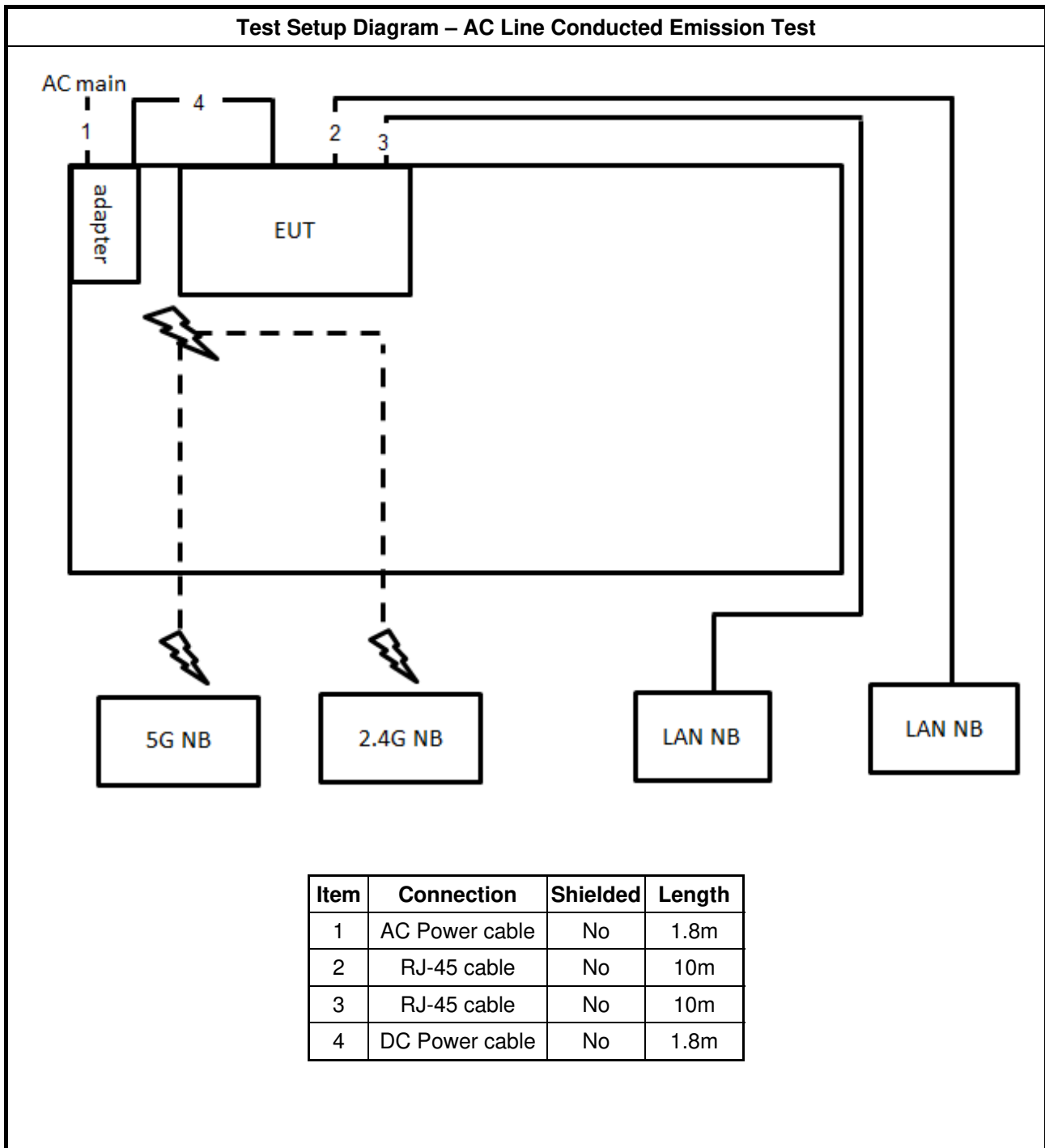
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	NB	DELL	E4300	DoC
3	RX Device	CISCO	WAP581	PD5-WAP581

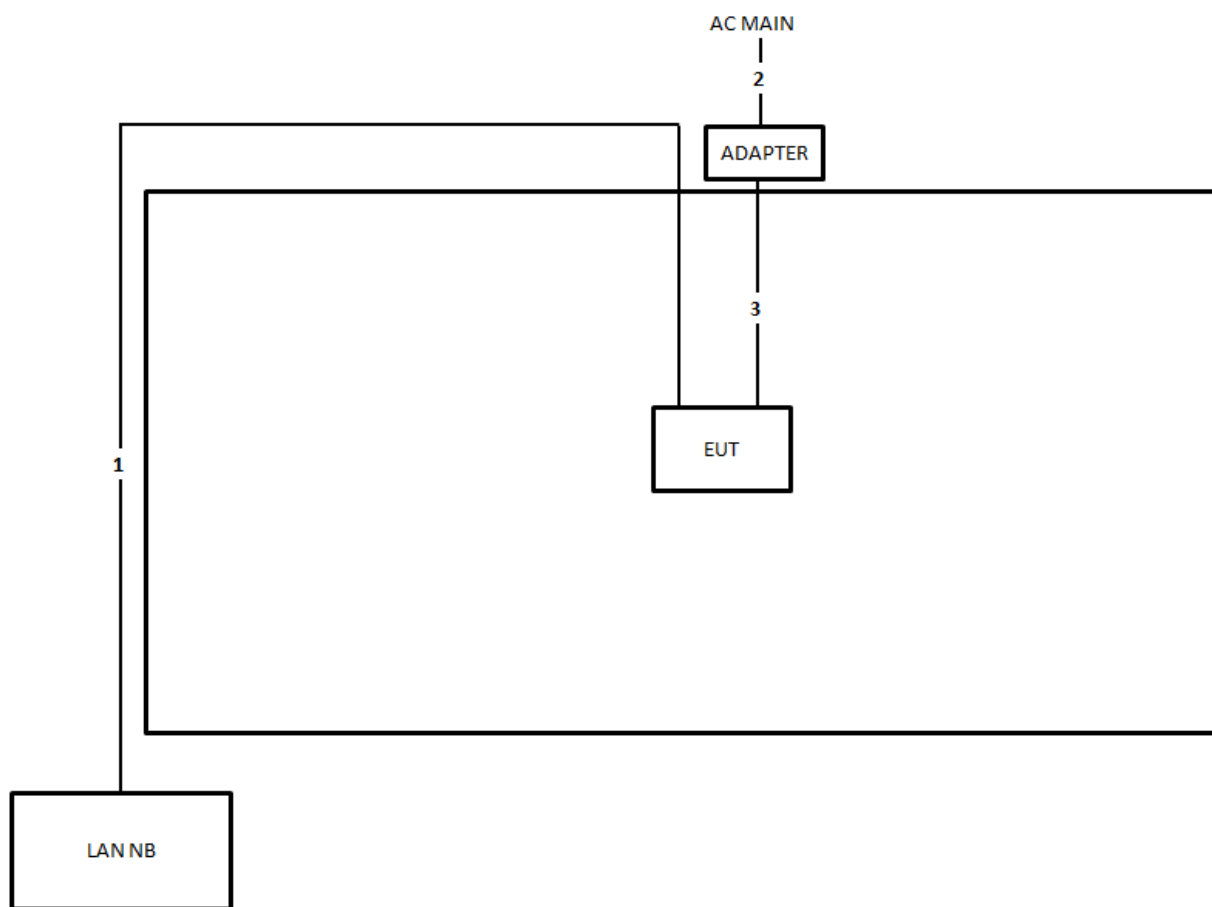


For Test Site No: TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

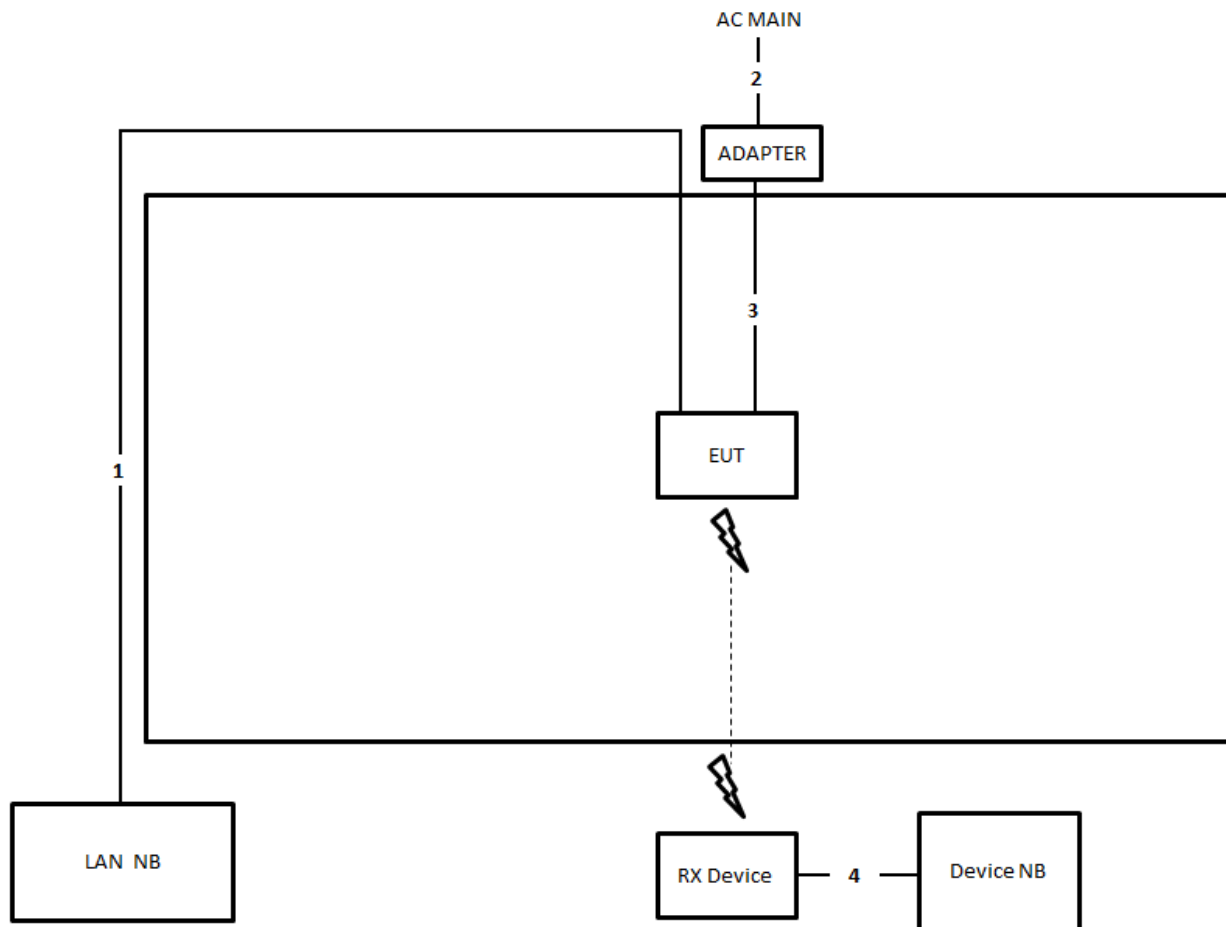
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz and Radiated Test > 1GHz / For non-beamforming mode


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	AC Power cable	No	1.8m
3	DC Power cable	No	1.8m

Test Setup Diagram - Radiated Test > 1GHz / For beamforming mode



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	AC Power cable	No	1.8m
3	DC Power cable	No	1.8m
4	RJ-45 cable	No	1.5m

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.

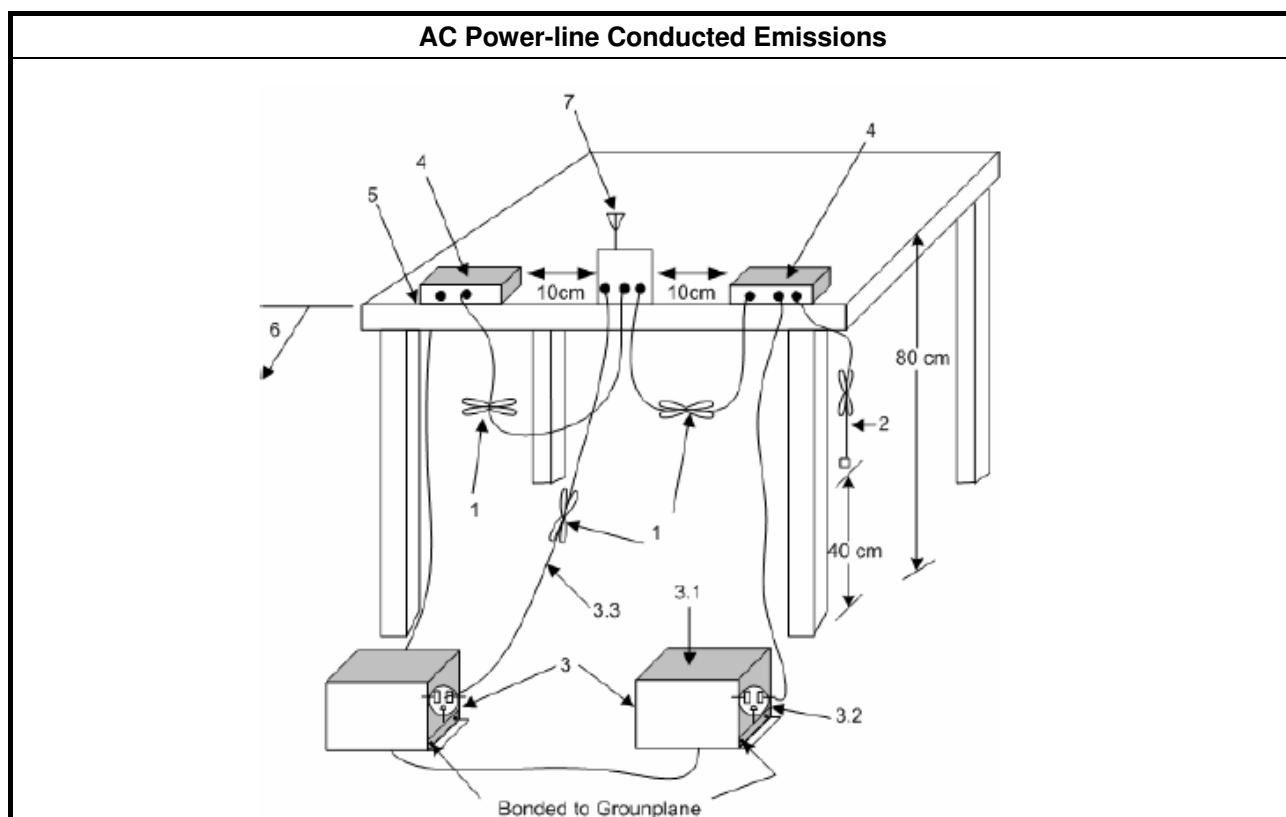
3.1.2 Measuring Instruments

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

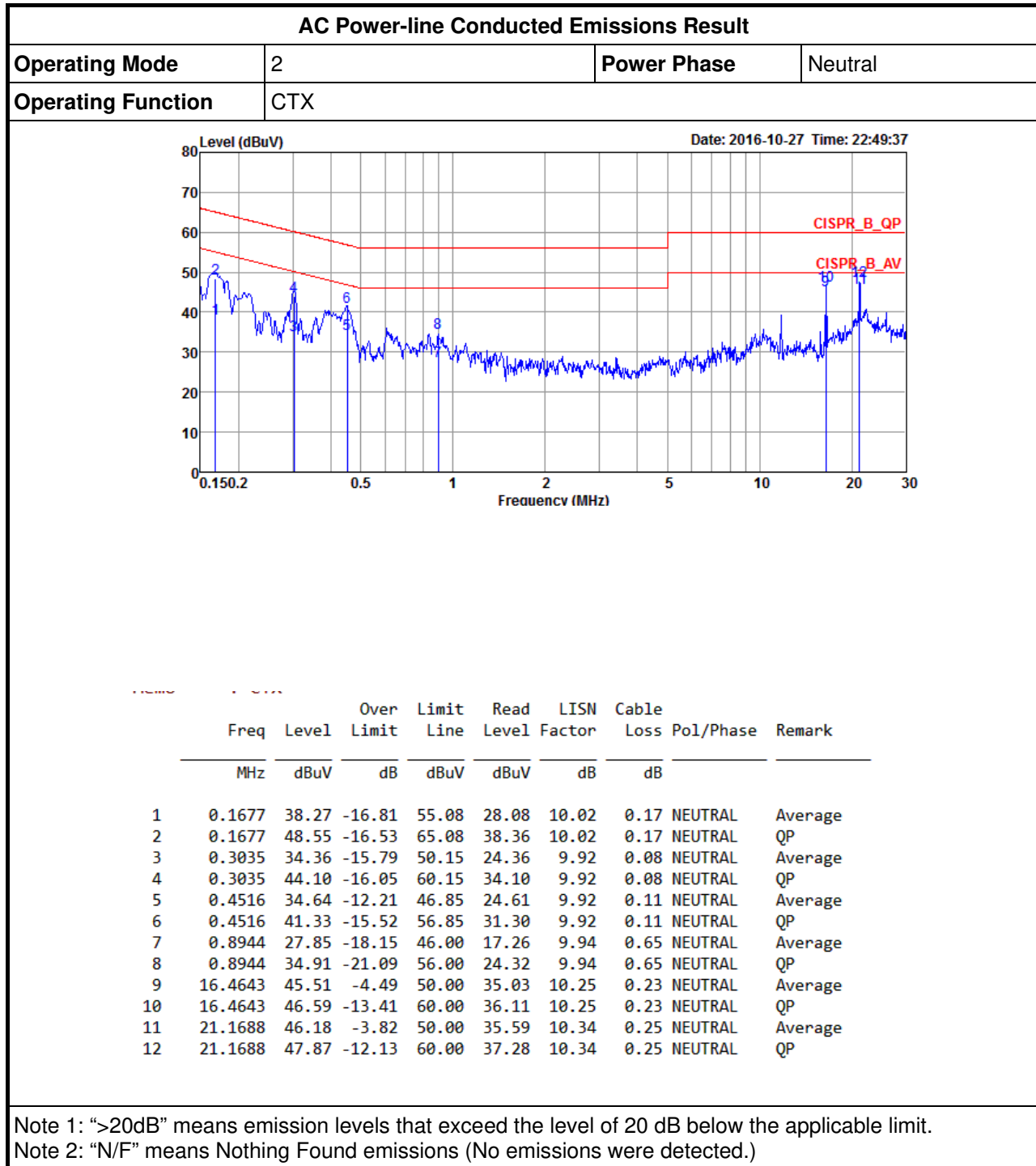
3.1.3 Test Procedures

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

3.1.4 Test Setup

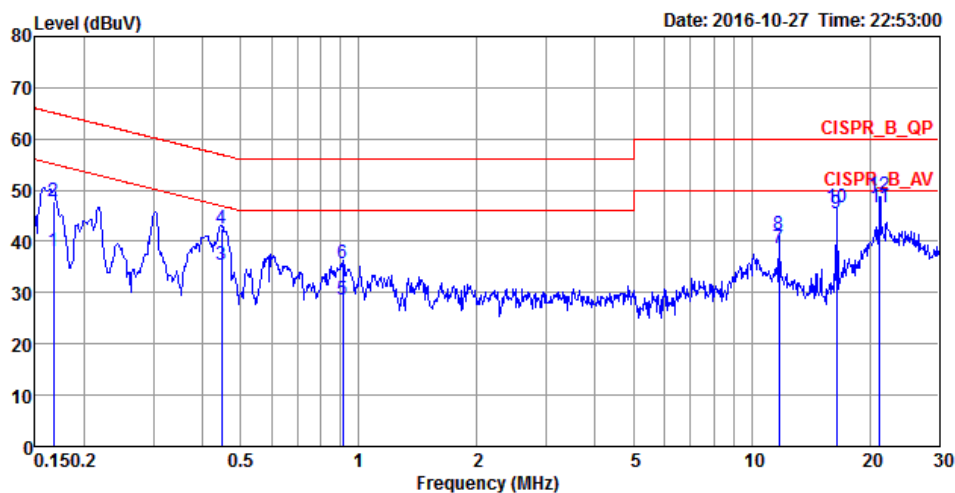


3.1.5 Test Result of AC Power-line Conducted Emissions



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	CTX		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1668	38.02	-17.10	55.12	27.83	10.02	0.17	LINE	Average
2	0.1668	47.93	-17.19	65.12	37.74	10.02	0.17	LINE	QP
3	0.4468	35.54	-11.39	46.93	25.53	9.92	0.09	LINE	Average
4	0.4468	42.40	-14.53	56.93	32.39	9.92	0.09	LINE	QP
5	0.9087	28.63	-17.37	46.00	18.03	9.94	0.66	LINE	Average
6	0.9087	35.85	-20.15	56.00	25.25	9.94	0.66	LINE	QP
7	11.7596	38.72	-11.28	50.00	28.36	10.18	0.18	LINE	Average
8	11.7596	41.22	-18.78	60.00	30.86	10.18	0.18	LINE	QP
9	16.4636	45.48	-4.52	50.00	35.00	10.25	0.23	LINE	Average
10	16.4636	46.61	-13.39	60.00	36.13	10.25	0.23	LINE	QP
11	21.1686	46.66	-3.34	50.00	36.07	10.34	0.25	LINE	Average
12	21.1686	48.93	-11.07	60.00	38.34	10.34	0.25	LINE	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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

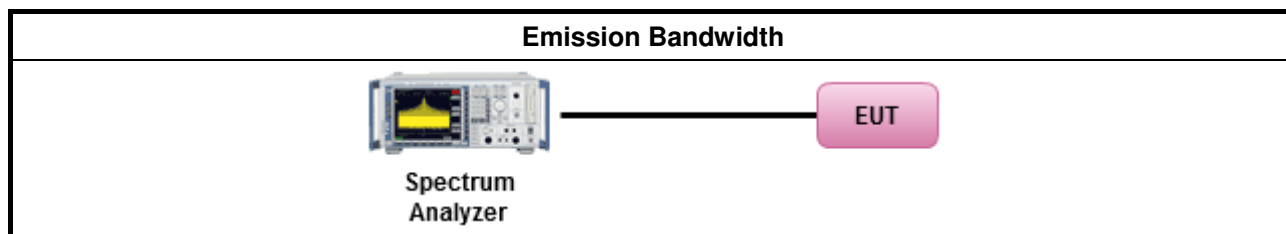
3.2.2 Measuring Instruments

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 FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☒	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Mode	Result	Limit (Hz)	Port 1- N dB BW (Hz)	Port 1- OBW (Hz)	Port 2- N dB BW (Hz)	Port 2- OBW (Hz)	Port 3- N dB BW (Hz)	Port 3- OBW (Hz)	Port 4- N dB BW (Hz)	Port 4- OBW (Hz)
UNII-1 802.11a 6Mbps 5180Mhz 4TX	Pass	---	21.325M	16.567M	21.55M	16.592M	21.4M	16.567M	21.65M	16.542M
UNII-1 802.11a 6Mbps 5200Mhz 4TX	Pass	---	21.4M	16.542M	21.475M	16.567M	21.475M	16.592M	21.675M	16.592M
UNII-1 802.11a 6Mbps 5240Mhz 4TX	Pass	---	21.375M	16.567M	21.475M	16.592M	21.35M	16.567M	21.525M	16.567M
UNII-2A 802.11a 6Mbps 5260Mhz 4TX	Pass	---	21.325M	16.542M	21.475M	16.542M	21.45M	16.592M	21.6M	16.692M
UNII-2A 802.11a 6Mbps 5300Mhz 4TX	Pass	---	21.35M	16.592M	21.5M	16.567M	21.55M	16.592M	21.625M	16.642M
UNII-2A 802.11a 6Mbps 5320Mhz 4TX	Pass	---	21.125M	16.592M	21.3M	16.542M	21.35M	16.592M	21.55M	16.567M
UNII-2C 802.11a 6Mbps 5500Mhz 4TX	Pass	---	21.325M	16.567M	21.475M	16.592M	21.475M	16.617M	21.575M	16.567M
UNII-2C 802.11a 6Mbps 5580Mhz 4TX	Pass	---	21.125M	16.542M	21.225M	16.567M	21.5M	16.617M	21.35M	16.567M
UNII-2C 802.11a 6Mbps 5700Mhz 4TX	Pass	---	21.225M	16.592M	21.5M	16.567M	21.425M	16.592M	21.65M	16.617M
UNII-3 802.11a 6Mbps 5720Mhz 4TX	Pass	---	15.645M	13.268M	15.675M	13.328M	15.69M	13.358M	15.765M	13.343M
UNII-3 802.11a 6Mbps 5720Mhz 4TX	Pass	500k	3.18M	3.978M	3.1M	3.898M	3.12M	3.778M	3.12M	3.878M
UNII-3 802.11a 6Mbps 5745Mhz 4TX	Pass	500k	16.275M	16.667M	16.325M	16.642M	16.325M	16.717M	16.35M	16.892M
UNII-3 802.11a 6Mbps 5785Mhz 4TX	Pass	500k	16.35M	16.667M	16.325M	16.742M	16.35M	16.792M	16.325M	16.767M
UNII-3 802.11a 6Mbps 5825Mhz 4TX	Pass	500k	16.325M	16.642M	16.375M	16.692M	16.325M	16.892M	16.325M	16.692M
UNII-1 802.11ac VHT20 MCS0 5180Mhz 4TX	Pass	---	21.6M	17.766M	21.45M	17.766M	21.625M	17.741M	21.9M	17.766M
UNII-1 802.11ac VHT20 MCS0 5200Mhz 4TX	Pass	---	21.525M	17.791M	21.55M	17.741M	21.65M	17.791M	21.925M	17.766M
UNII-1 802.11ac VHT20 MCS0 5240Mhz 4TX	Pass	---	21.55M	17.816M	21.75M	17.716M	21.55M	17.716M	21.825M	17.741M
UNII-2A 802.11ac VHT20 MCS0 5260Mhz 4TX	Pass	---	21.55M	17.766M	21.675M	17.716M	21.575M	17.716M	21.975M	17.741M
UNII-2A 802.11ac VHT20 MCS0 5300Mhz 4TX	Pass	---	21.425M	17.766M	21.625M	17.741M	21.6M	17.741M	21.85M	17.741M
UNII-2A 802.11ac VHT20 MCS0 5320Mhz 4TX	Pass	---	21.6M	17.766M	21.475M	17.766M	21.5M	17.716M	21.75M	17.791M
UNII-2C 802.11ac VHT20 MCS0 5500Mhz 4TX	Pass	---	21.65M	17.716M	21.625M	17.716M	21.625M	17.741M	21.85M	17.741M
UNII-2C 802.11ac VHT20 MCS0 5580Mhz 4TX	Pass	---	21.775M	17.716M	21.75M	17.691M	21.4M	17.766M	21.725M	17.816M
UNII-2C 802.11ac VHT20 MCS0 5700Mhz 4TX	Pass	---	21.425M	17.716M	21.475M	17.741M	21.425M	17.791M	21.85M	17.741M
UNII-2C 802.11ac VHT20 MCS0 5720Mhz 4TX	Pass	---	15.795M	13.928M	15.735M	13.928M	15.735M	13.913M	15.93M	13.943M
UNII-3 802.11ac VHT20 MCS0 5720Mhz 4TX	Pass	500k	3.8M	4.118M	3.76M	4.198M	3.74M	4.238M	3.82M	4.138M
UNII-3 802.11ac VHT20 MCS0 5745Mhz 4TX	Pass	500k	17.55M	17.866M	17.55M	17.866M	17.6M	17.891M	17.575M	17.916M
UNII-3 802.11ac VHT20 MCS0 5785Mhz 4TX	Pass	500k	17.575M	17.766M	17.575M	17.866M	17.575M	17.916M	17.55M	17.941M
UNII-3 802.11ac VHT20 MCS0 5825Mhz 4TX	Pass	500k	17.575M	17.866M	17.575M	17.791M	17.6M	17.891M	17.575M	17.966M
UNII-1 802.11ac VHT40 MCS0 5190Mhz 4TX	Pass	---	39.85M	36.332M	39.5M	36.282M	39.65M	36.282M	40.25M	36.232M



UNII-1 802.11ac VHT40 MCS0 5230Mhz 4TX	Pass	---	63.65M	36.432M	61.4M	36.232M	68.25M	36.332M	69.65M	36.332M
UNII-2A 802.11ac VHT40 MCS0 5270Mhz 4TX	Pass	---	39.9M	36.282M	39.65M	36.182M	39.5M	36.282M	40.45M	36.232M
UNII-2A 802.11ac VHT40 MCS0 5310Mhz 4TX	Pass	---	39.65M	36.282M	39.6M	36.232M	39.65M	36.232M	40.1M	36.232M
UNII-2C 802.11ac VHT40 MCS0 5510Mhz 4TX	Pass	---	39.85M	36.232M	39.85M	36.232M	39.85M	36.332M	40.2M	36.182M
UNII-2C 802.11ac VHT40 MCS0 5550Mhz 4TX	Pass	---	40M	36.282M	40.15M	36.332M	39.9M	36.232M	40.35M	36.232M
UNII-2C 802.11ac VHT40 MCS0 5670Mhz 4TX	Pass	---	39.75M	36.082M	40.1M	36.132M	39.7M	36.282M	40.25M	36.282M
UNII-2C 802.11ac VHT40 MCS0 5710Mhz 4TX	Pass	---	35.14M	33.128M	35.07M	33.093M	34.93M	33.058M	35.21M	33.058M
UNII-3 802.11ac VHT40 MCS0 5710Mhz 4TX	Pass	500k	3.08M	3.478M	3.1M	3.458M	3.14M	3.478M	3.1M	3.478M
UNII-3 802.11ac VHT40 MCS0 5755Mhz 4TX	Pass	500k	36.3M	36.432M	36.3M	36.482M	36.3M	36.582M	36.3M	36.582M
UNII-3 802.11ac VHT40 MCS0 5795Mhz 4TX	Pass	500k	36.35M	36.382M	36.3M	36.432M	36.3M	36.532M	36.3M	36.482M
UNII-1 802.11ac VHT80 MCS0 5210Mhz 4TX	Pass	---	80.7M	74.963M	81M	74.763M	80.9M	74.863M	81.3M	74.963M
UNII-2A 802.11ac VHT80 MCS0 5290Mhz 4TX	Pass	---	81.9M	75.862M	81.4M	75.762M	81.4M	75.562M	81.9M	75.662M
UNII-2C 802.11ac VHT80 MCS0 5530Mhz 4TX	Pass	---	81.9M	75.662M	81.4M	75.862M	81.6M	75.862M	82.2M	75.862M
UNII-2C 802.11ac VHT80 MCS0 5610Mhz 4TX	Pass	---	81.6M	75.762M	81.5M	75.762M	81.8M	76.162M	81.7M	75.762M
UNII-2C 802.11ac VHT80 MCS0 5690Mhz 4TX	Pass	---	76.125M	72.564M	75.6M	72.639M	75.975M	72.564M	76.725M	72.564M
UNII-3 802.11ac VHT80 MCS0 5690Mhz 4TX	Pass	500k	3.1M	3.678M	3.08M	3.618M	3.08M	3.698M	3.1M	3.678M
UNII-3 802.11ac VHT80 MCS0 5775Mhz 4TX	Pass	500k	75.7M	75.862M	76.3M	75.962M	76.3M	75.862M	75.9M	75.962M
UNII-1 802.11ac VHT20(BF)MCS0 5180Mhz 4TX	Pass	---	21.375M	17.741M	21.825M	17.766M	21.475M	17.791M	21.775M	17.791M
UNII-1 802.11ac VHT20(BF)MCS0 5200Mhz 4TX	Pass	---	21.475M	17.766M	21.575M	17.766M	21.65M	17.766M	21.85M	17.791M
UNII-1 802.11ac VHT20(BF)MCS0 5240Mhz 4TX	Pass	---	21.75M	17.791M	21.525M	17.766M	21.825M	17.766M	21.65M	17.766M
UNII-2A 802.11ac VHT20(BF)MCS0 5260Mhz 4TX	Pass	---	21.575M	17.766M	21.625M	17.716M	21.675M	17.741M	21.75M	17.791M
UNII-2A 802.11ac VHT20(BF)MCS0 5300Mhz 4TX	Pass	---	21.625M	17.741M	21.7M	17.741M	21.575M	17.741M	21.825M	17.816M
UNII-2A 802.11ac VHT20(BF)MCS0 5320Mhz 4TX	Pass	---	21.775M	17.741M	21.75M	17.791M	21.475M	17.741M	21.85M	17.766M
UNII-2C 802.11ac VHT20(BF)MCS0 5500Mhz 4TX	Pass	---	21.575M	17.716M	21.475M	17.716M	21.575M	17.741M	21.925M	17.716M
UNII-2C 802.11ac VHT20(BF)MCS0 5580Mhz 4TX	Pass	---	21.675M	17.791M	21.5M	17.791M	21.525M	17.766M	21.975M	17.766M
UNII-2C 802.11ac VHT20(BF)MCS0 5700Mhz 4TX	Pass	---	21.5M	17.791M	21.575M	17.741M	21.45M	17.741M	21.875M	17.791M

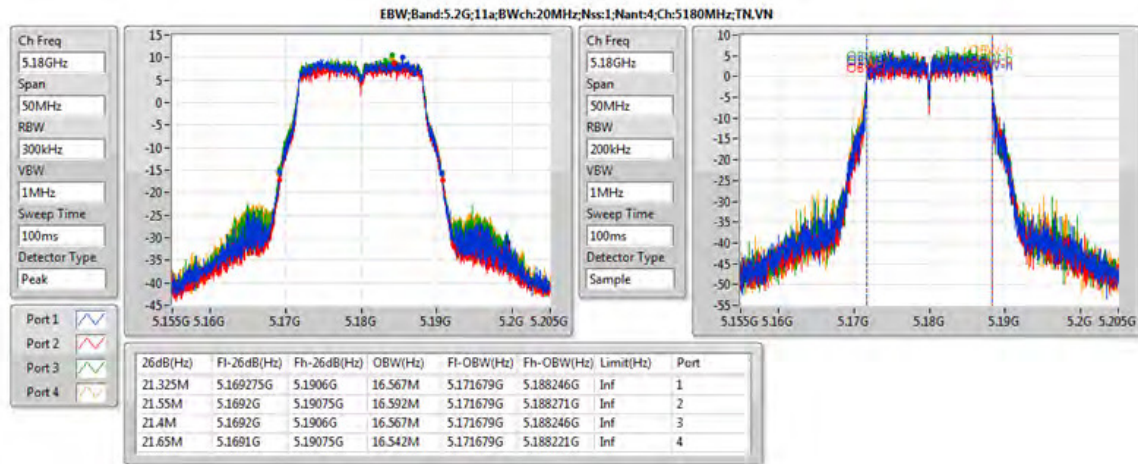


UNII-2C 802.11ac VHT20(BF)MCS0 5720Mhz 4TX	Pass	---	15.735M	13.913M	15.72M	13.898M	15.795M	13.943M	15.9M	13.928M
UNII-3 802.11ac VHT20(BF)MCS0 5720Mhz 4TX	Pass	500k	3.76M	4.298M	3.82M	4.258M	3.74M	4.318M	3.84M	4.318M
UNII-3 802.11ac VHT20(BF)MCS0 5745Mhz 4TX	Pass	500k	17.575M	17.741M	17.6M	17.741M	17.575M	17.766M	17.575M	17.791M
UNII-3 802.11ac VHT20(BF)MCS0 5785Mhz 4TX	Pass	500k	17.575M	17.741M	17.575M	17.766M	17.575M	17.691M	17.55M	17.716M
UNII-3 802.11ac VHT20(BF)MCS0 5825Mhz 4TX	Pass	500k	17.575M	17.741M	17.6M	17.766M	17.575M	17.741M	17.575M	17.791M
UNII-1 802.11ac VHT40(BF)MCS0 5190Mhz 4TX	Pass	---	39.9M	36.232M	39.8M	36.332M	39.9M	36.232M	40.3M	36.182M
UNII-1 802.11ac VHT40(BF)MCS0 5230Mhz 4TX	Pass	---	39.9M	36.282M	39.85M	36.382M	39.65M	36.132M	47M	36.232M
UNII-2A 802.11ac VHT40(BF)MCS0 5270Mhz 4TX	Pass	---	39.7M	36.332M	39.75M	36.232M	39.9M	36.332M	40.5M	36.282M
UNII-2A 802.11ac VHT40(BF)MCS0 5310Mhz 4TX	Pass	---	39.6M	36.232M	39.8M	36.232M	40M	36.232M	40.35M	36.282M
UNII-2C 802.11ac VHT40(BF)MCS0 5510Mhz 4TX	Pass	---	40.05M	36.182M	39.7M	36.282M	39.75M	36.232M	40.15M	36.282M
UNII-2C 802.11ac VHT40(BF)MCS0 5550Mhz 4TX	Pass	---	40.05M	36.332M	39.65M	36.382M	40.1M	36.332M	40.35M	36.182M
UNII-2C 802.11ac VHT40(BF)MCS0 5670Mhz 4TX	Pass	---	39.9M	36.182M	39.75M	36.332M	39.85M	36.282M	40.4M	36.332M
UNII-2C 802.11ac VHT40(BF)MCS0 5710Mhz 4TX	Pass	---	34.895M	33.023M	34.79M	32.989M	34.86M	33.023M	35.385M	33.058M
UNII-3 802.11ac VHT40(BF)MCS0 5710Mhz 4TX	Pass	500k	3.1M	3.678M	3.12M	3.658M	3.08M	3.618M	3.12M	3.618M
UNII-3 802.11ac VHT40(BF)MCS0 5755Mhz 4TX	Pass	500k	36.3M	36.182M	36.3M	36.232M	36.3M	36.182M	36.25M	36.232M
UNII-3 802.11ac VHT40(BF)MCS0 5795Mhz 4TX	Pass	500k	36.3M	36.232M	36.35M	36.282M	36.3M	36.282M	36.3M	36.232M
UNII-1 802.11ac VHT80(BF)MCS0 5210Mhz 4TX	Pass	---	80.9M	75.062M	80.8M	75.262M	80.9M	74.963M	81.9M	74.963M
UNII-2A 802.11ac VHT80(BF)MCS0 5290Mhz 4TX	Pass	---	81.9M	75.762M	82M	75.862M	81.4M	75.662M	82.4M	75.662M
UNII-2C 802.11ac VHT80(BF)MCS0 5530Mhz 4TX	Pass	---	81.9M	75.862M	81.9M	75.862M	81.9M	75.762M	82.3M	75.862M
UNII-2C 802.11ac VHT80(BF)MCS0 5610Mhz 4TX	Pass	---	81.2M	75.762M	81.6M	75.662M	82M	75.762M	81.6M	75.662M
UNII-2C 802.11ac VHT80(BF)MCS0 5690Mhz 4TX	Pass	---	75.9M	72.564M	75.975M	72.564M	75.75M	72.639M	76.05M	72.714M
UNII-3 802.11ac VHT80(BF)MCS0 5690Mhz 4TX	Pass	500k	3.08M	5.617M	3.1M	4.178M	3.1M	4.298M	3.08M	4.258M
UNII-3 802.11ac VHT80(BF)MCS0 5775Mhz 4TX	Pass	500k	75.7M	75.762M	76.3M	75.862M	75.7M	75.862M	75.8M	75.662M

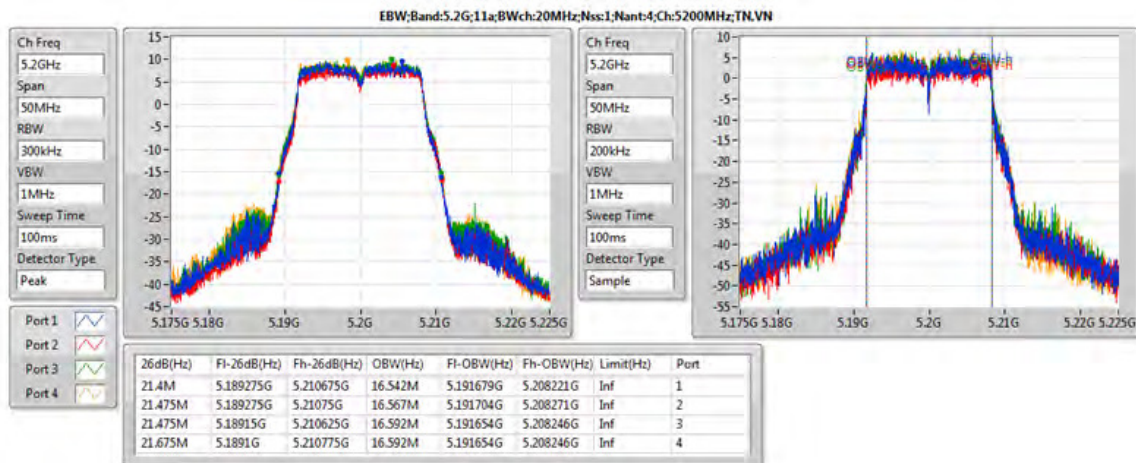
Note: N dB BW = 6dB BW

For non-beamforming mode

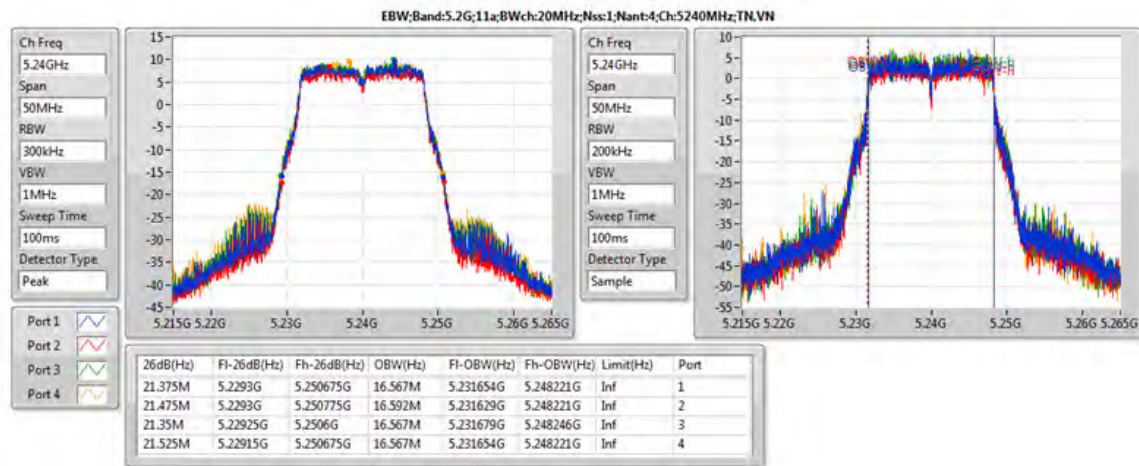
Emission Bandwidth on Configuration IEEE 802.11a / UNII-1 5180 MHz / 4TX



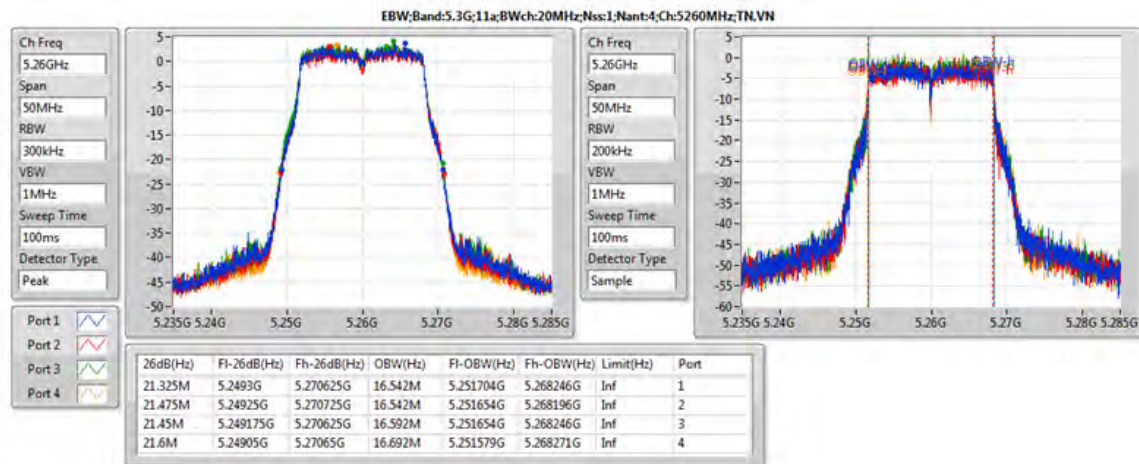
Emission Bandwidth on Configuration IEEE 802.11a / UNII-1 5200 MHz / 4TX



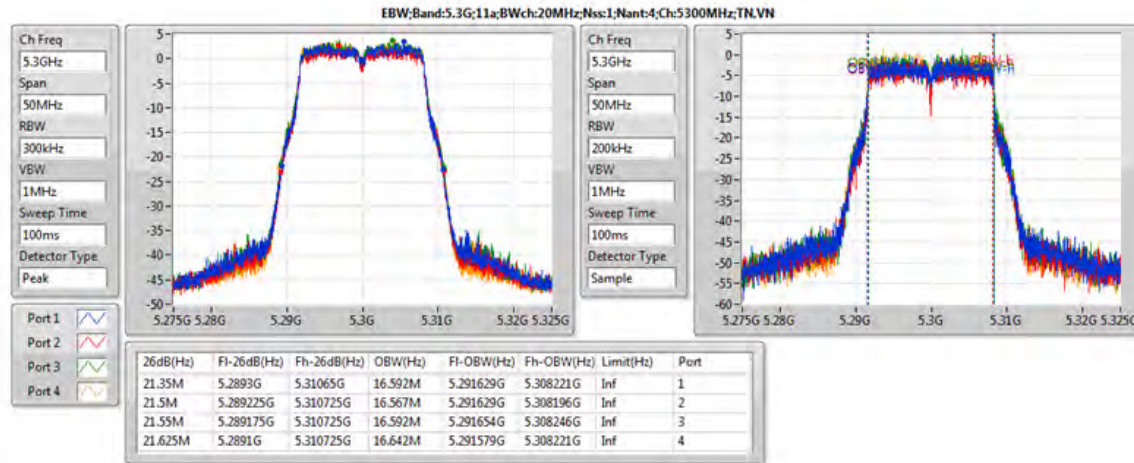
Emission Bandwidth on Configuration IEEE 802.11a / UNII-1 5240 MHz / 4TX



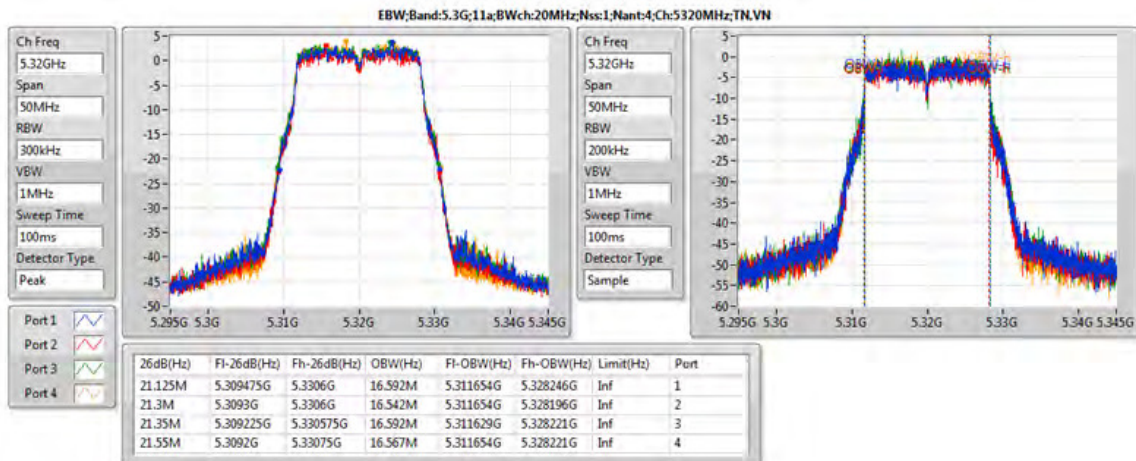
Emission Bandwidth on Configuration IEEE 802.11a / UNII-2A 5260 MHz / 4TX



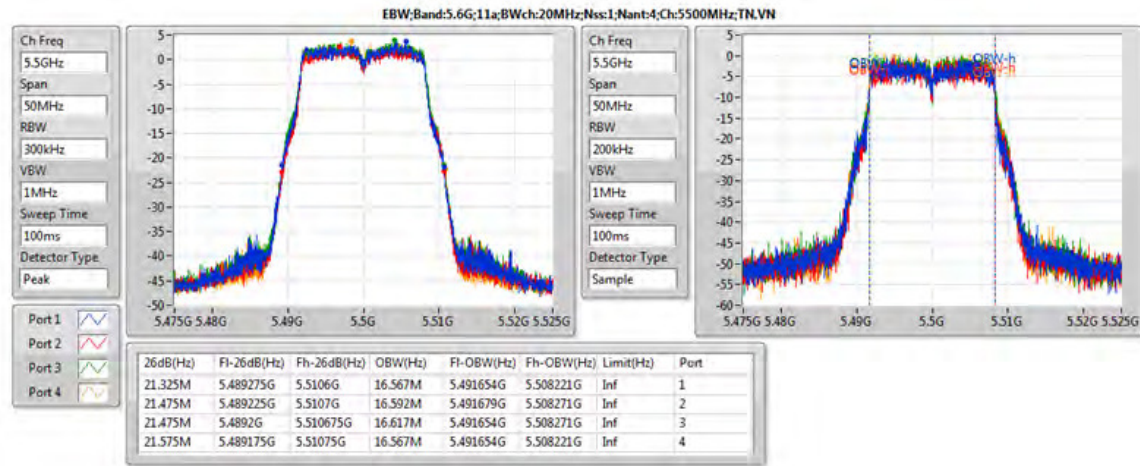
Emission Bandwidth on Configuration IEEE 802.11a / UNII-2A 5300 MHz / 4TX



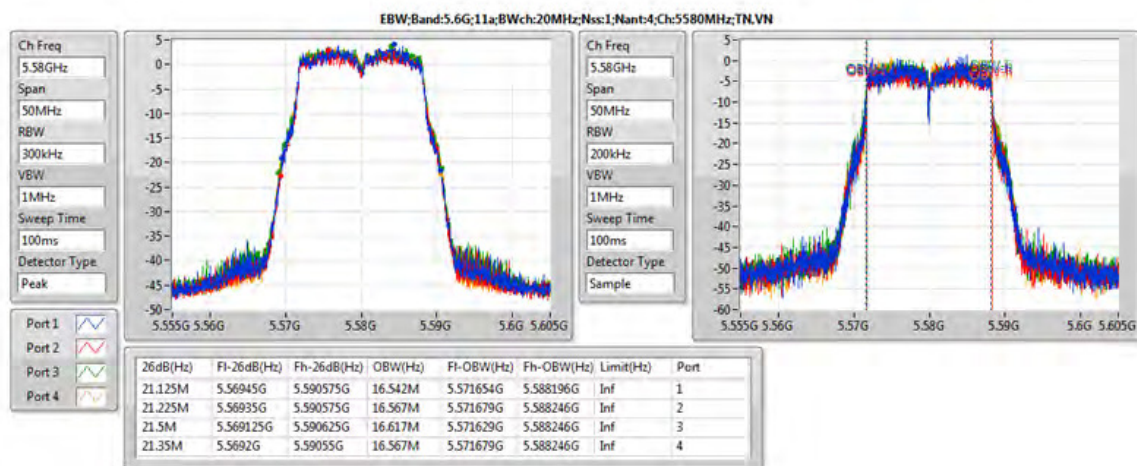
Emission Bandwidth on Configuration IEEE 802.11a / UNII-2A 5320 MHz / 4TX



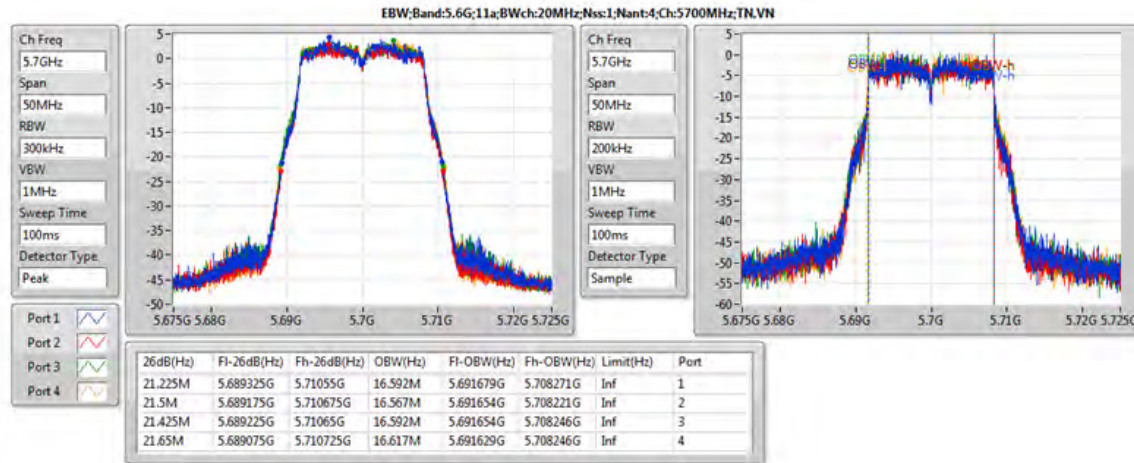
Emission Bandwidth on Configuration IEEE 802.11a / UNII-2C 5500 MHz / 4TX



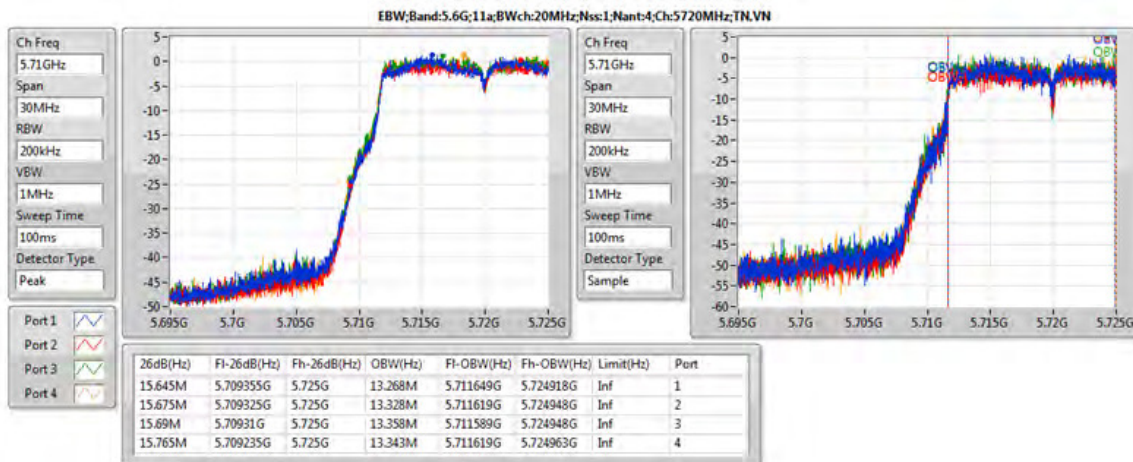
Emission Bandwidth on Configuration IEEE 802.11a / UNII-2C 5580 MHz / 4TX



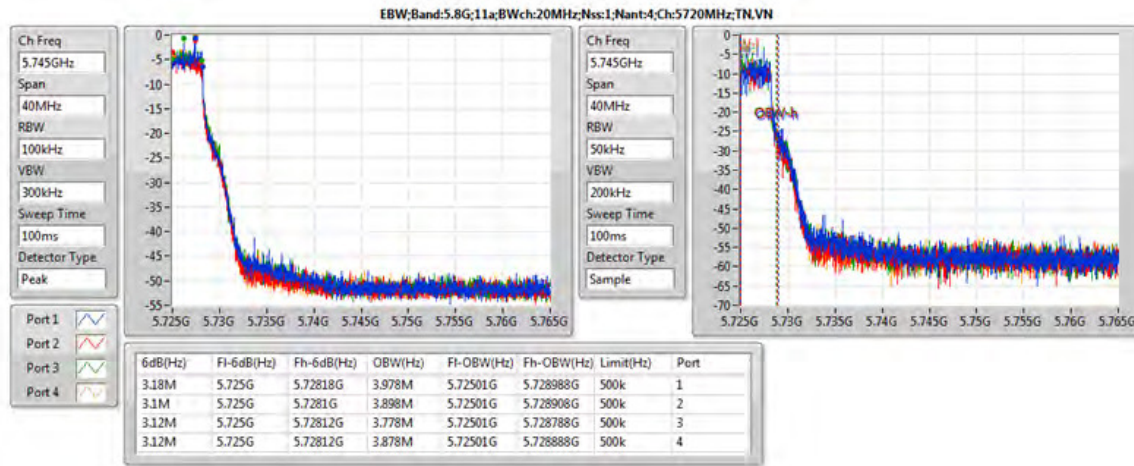
Emission Bandwidth on Configuration IEEE 802.11a / UNII-2C 5700 MHz / 4TX



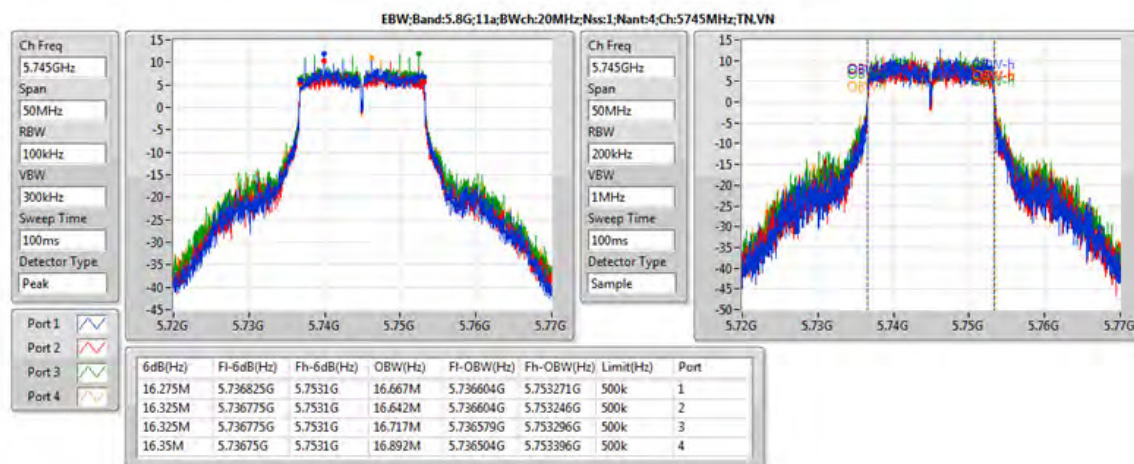
Emission Bandwidth on Configuration IEEE 802.11a / UNII-2C 5720 MHz / 4TX



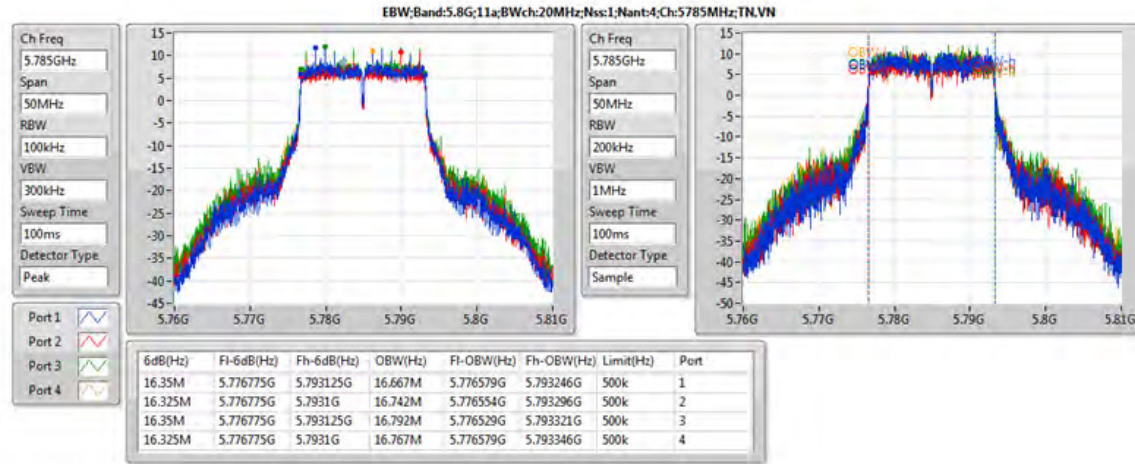
Emission Bandwidth on Configuration IEEE 802.11a / UNII-3 5720 MHz / 4TX



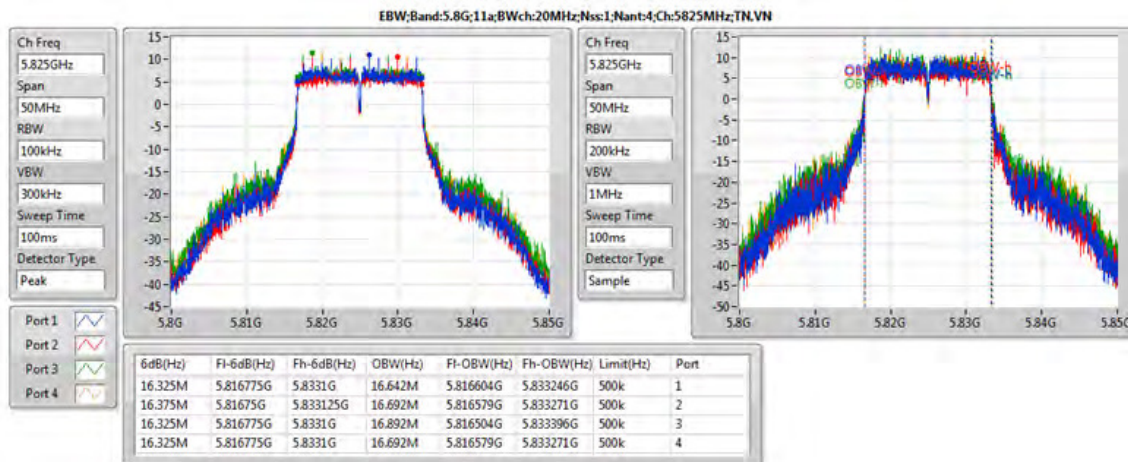
Emission Bandwidth on Configuration IEEE 802.11a / UNII-3 5745 MHz / 4TX



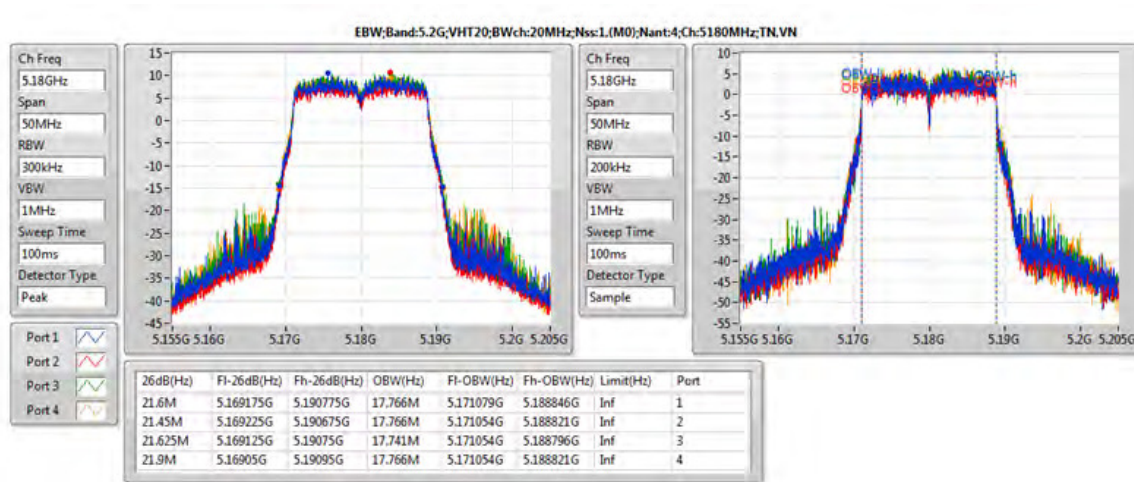
Emission Bandwidth on Configuration IEEE 802.11a / UNII-3 5785 MHz / 4TX



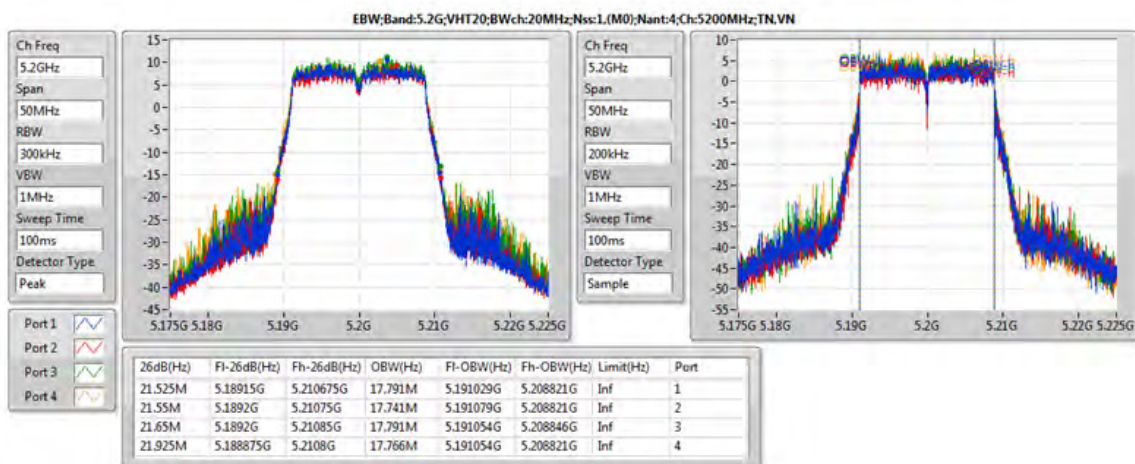
Emission Bandwidth on Configuration IEEE 802.11a / UNII-3 5825 MHz / 4TX



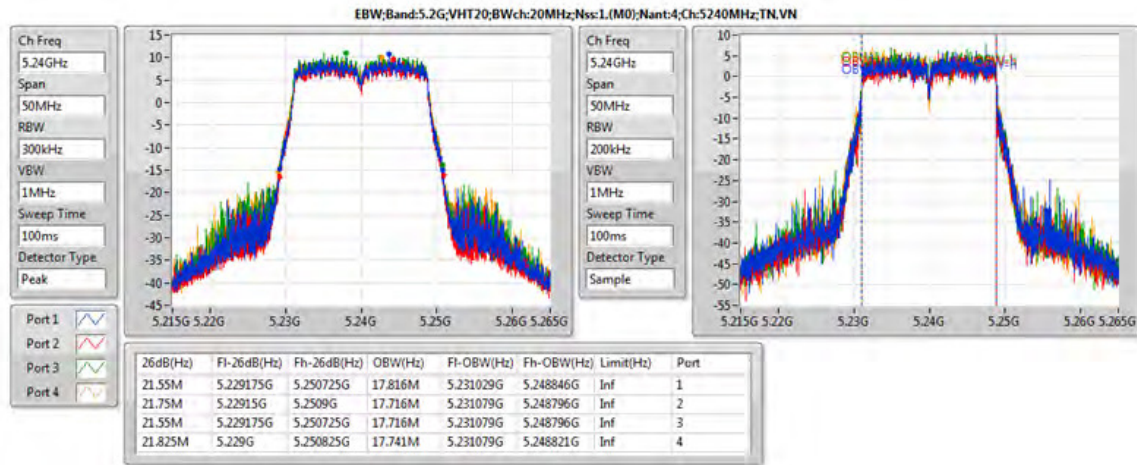
Emission Bandwidth on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-1 5180MHz / 4TX



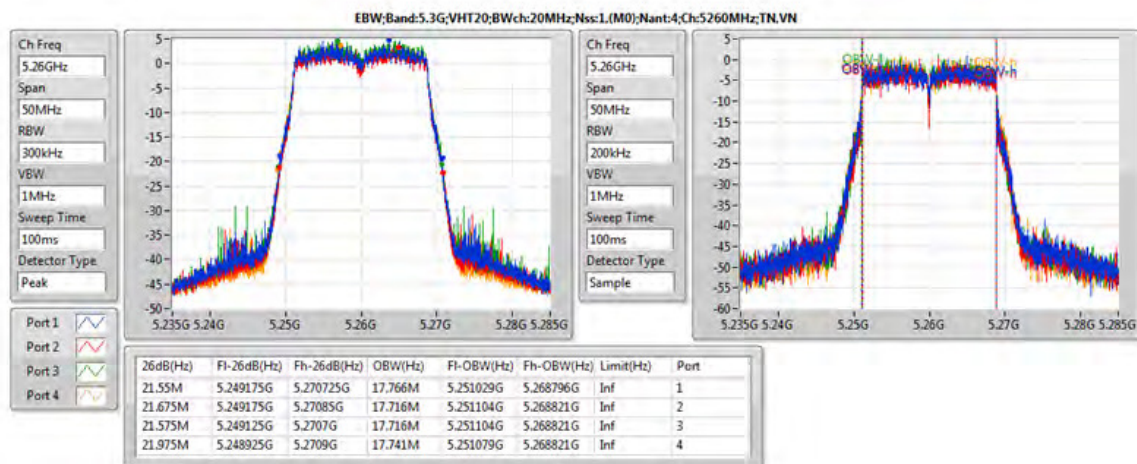
Emission Bandwidth on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-1 5200MHz / 4TX



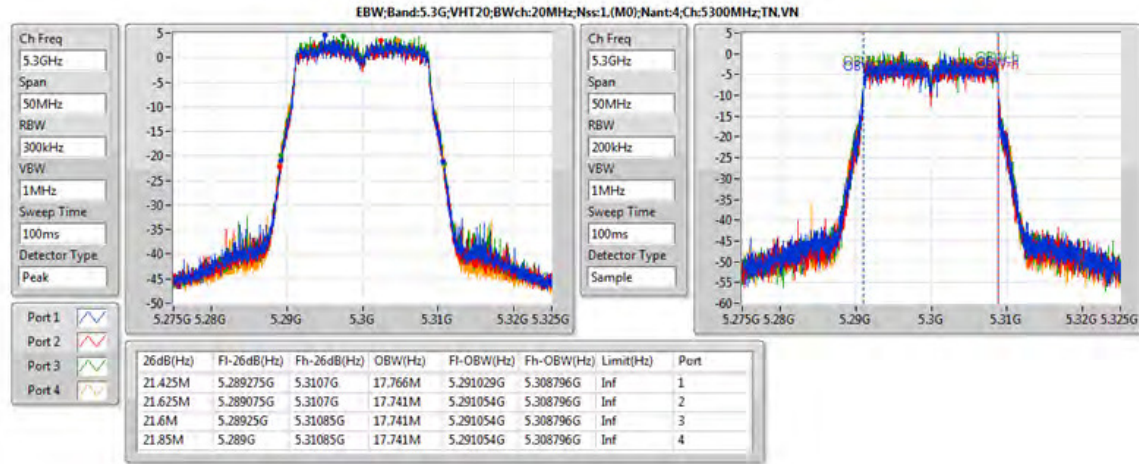
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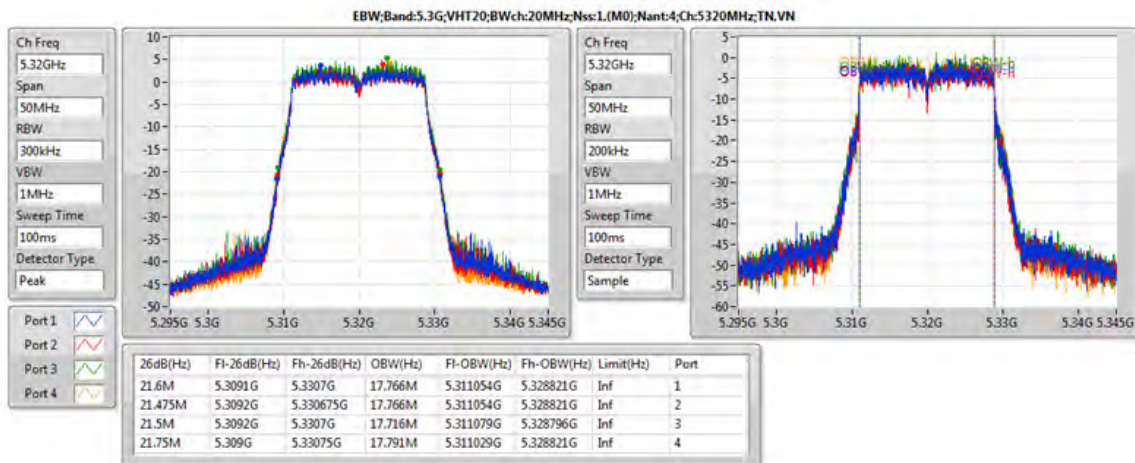
Emission Bandwidth on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-2A 5260MHz / 4TX



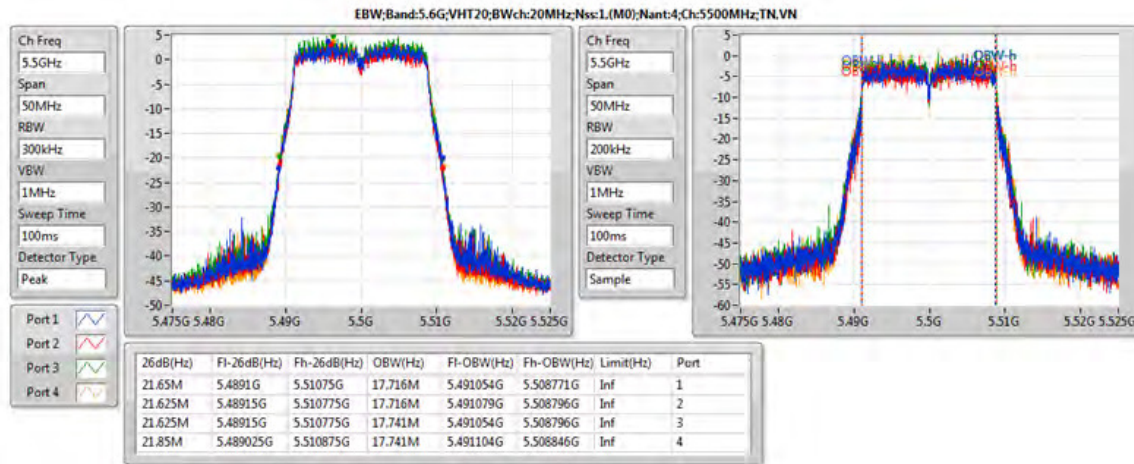
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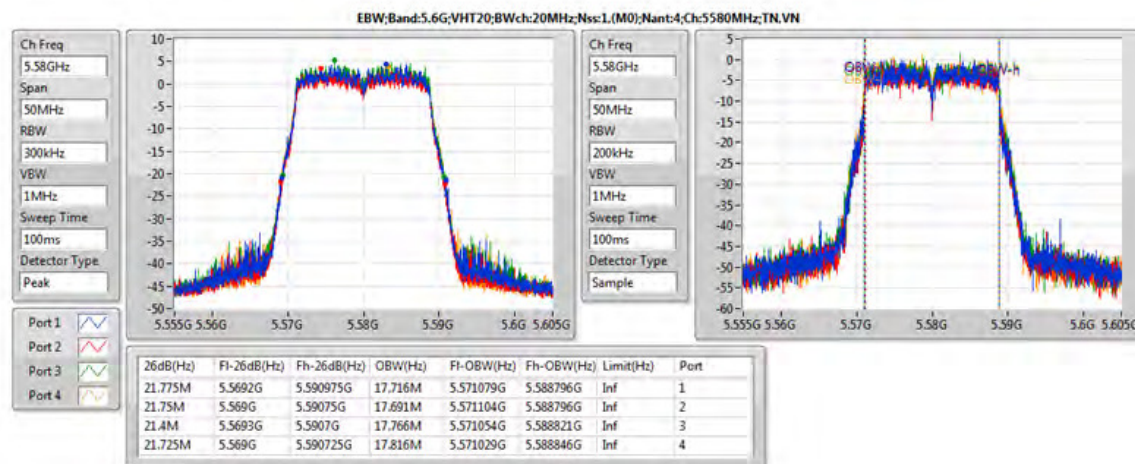
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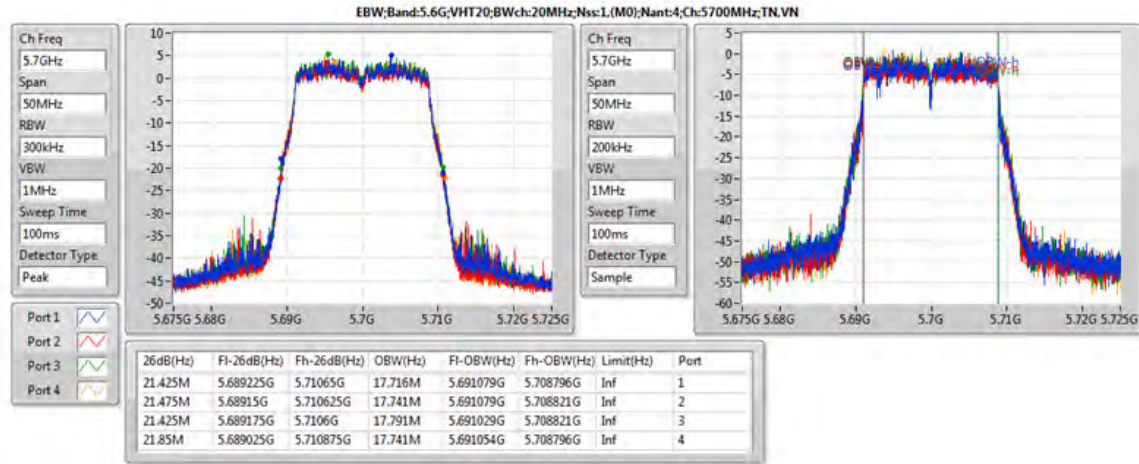
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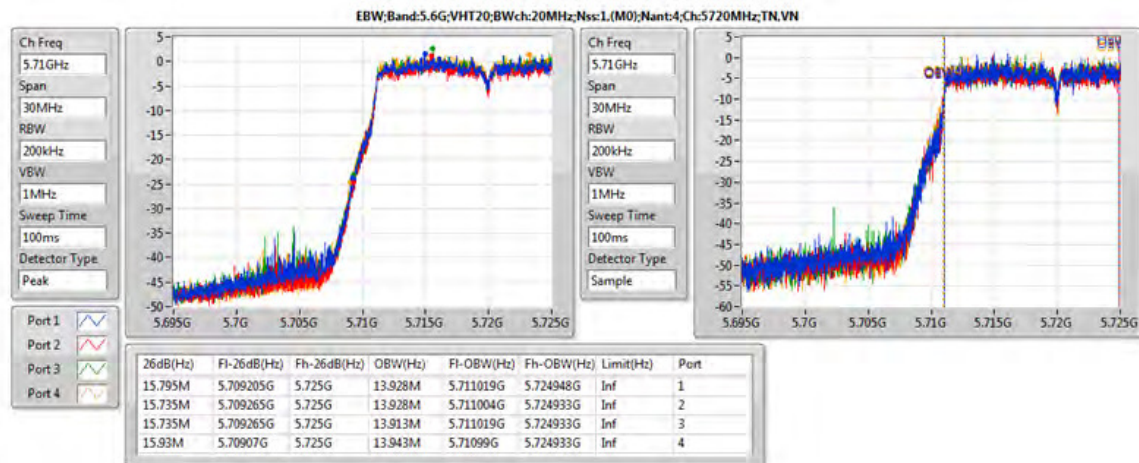
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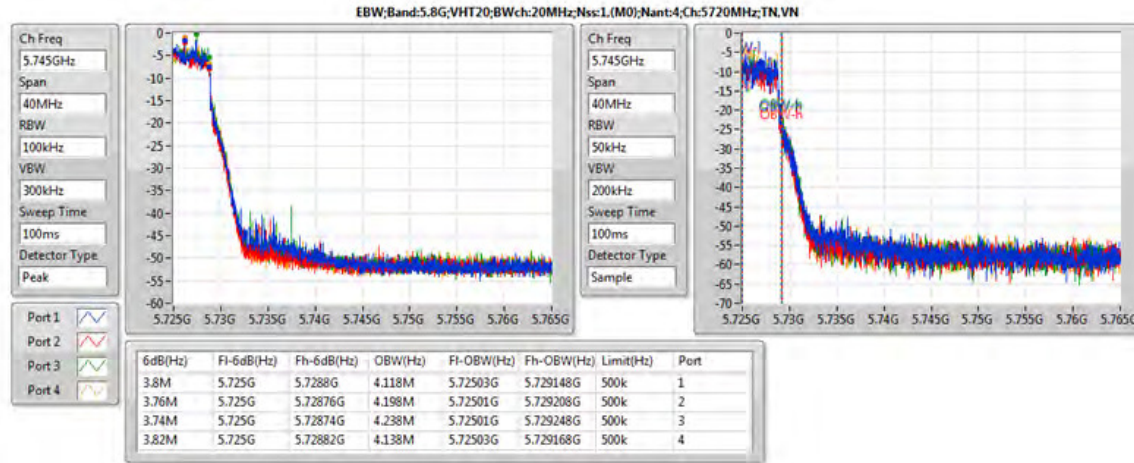
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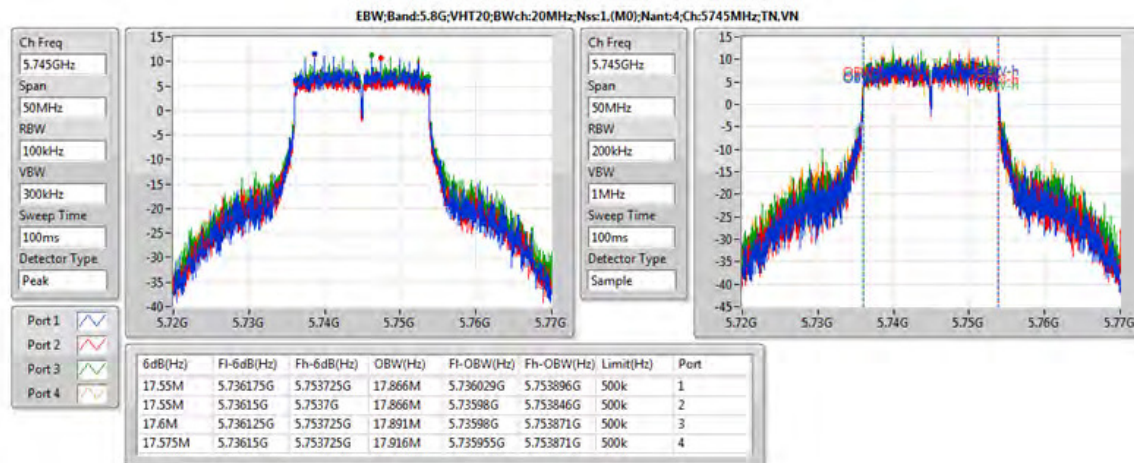
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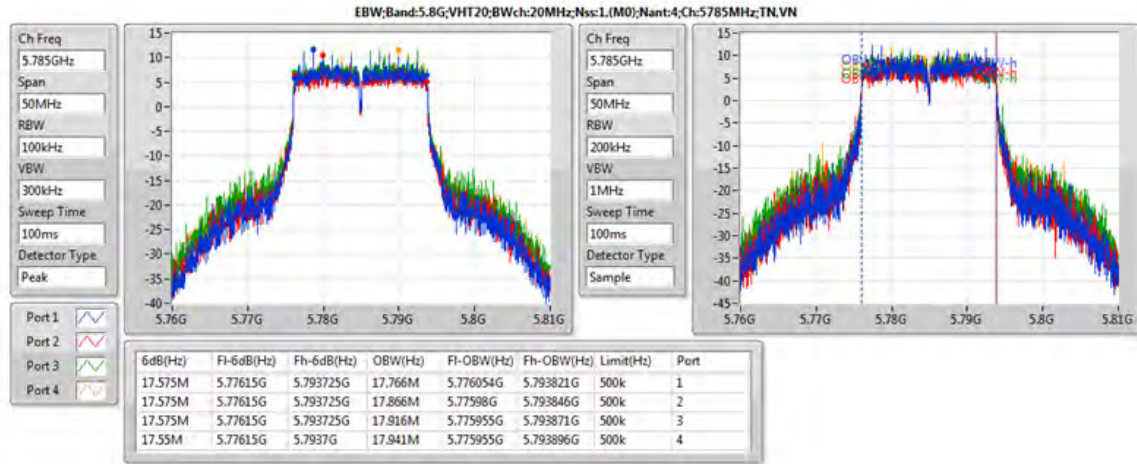
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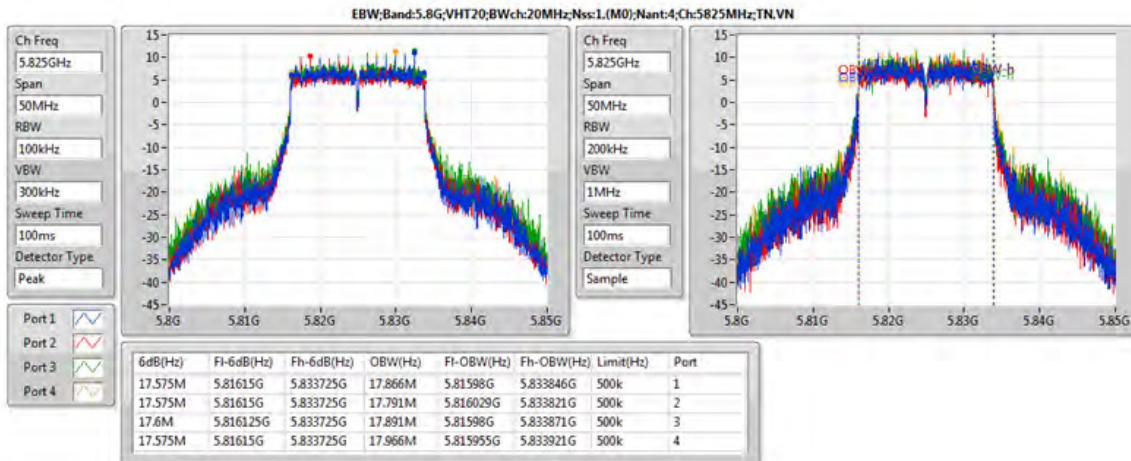
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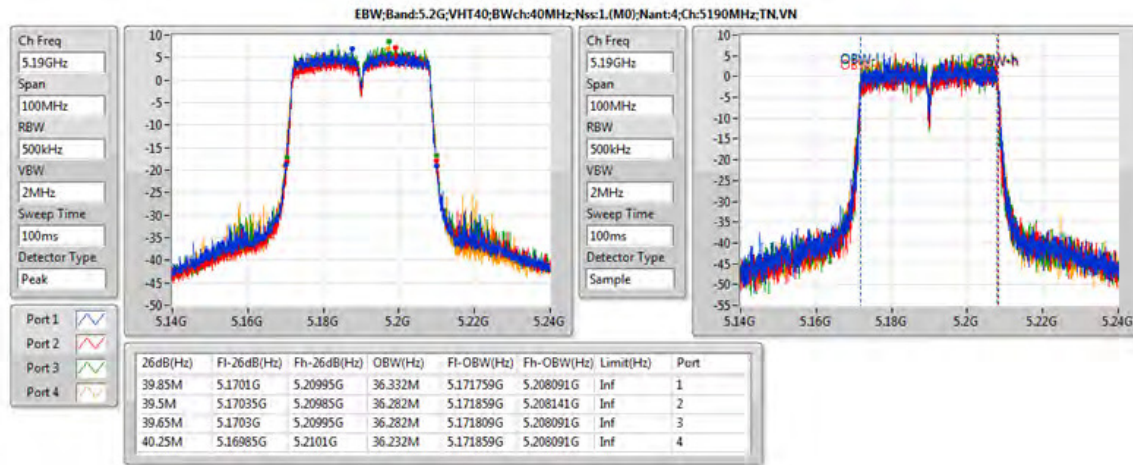
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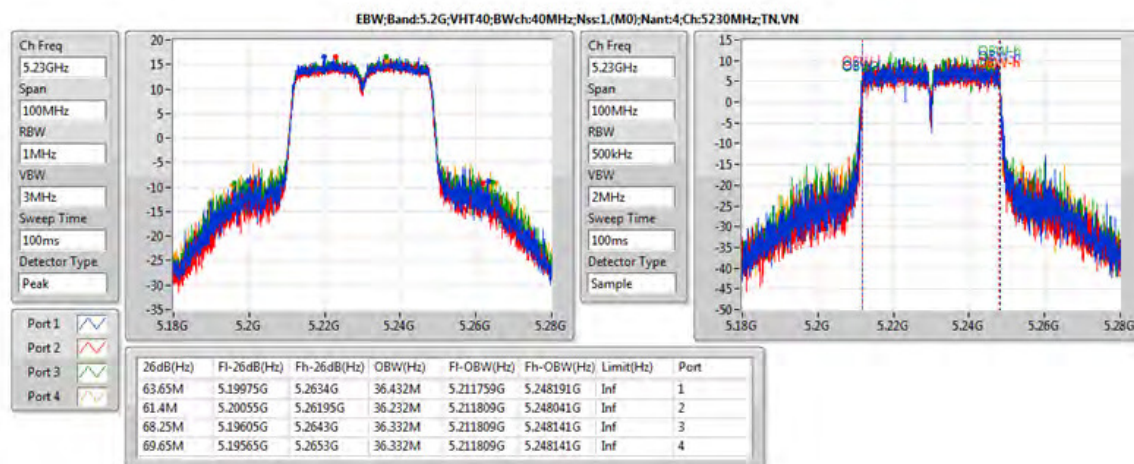
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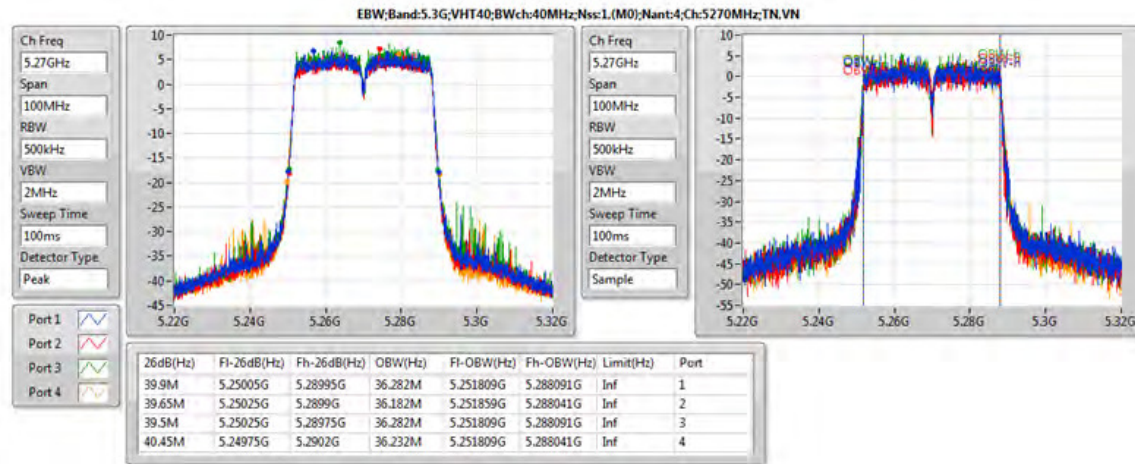
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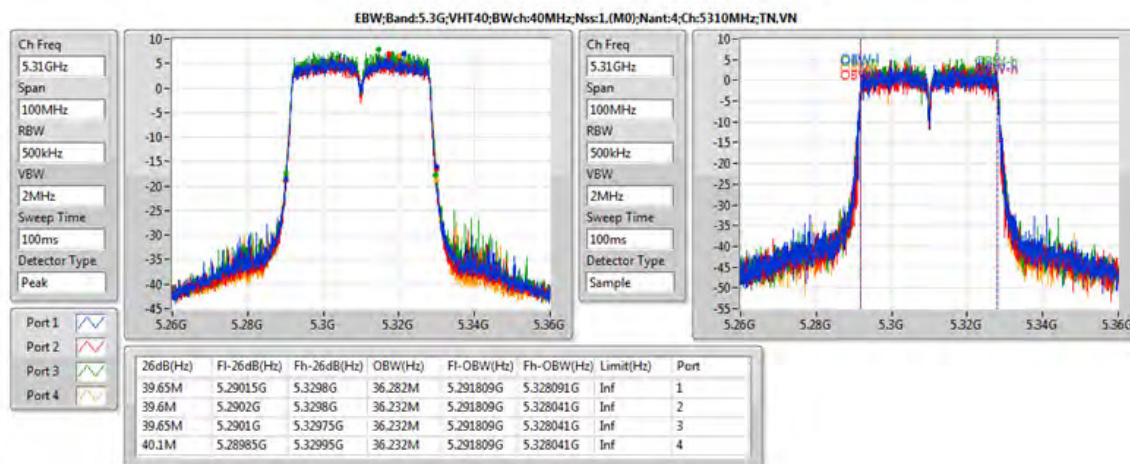
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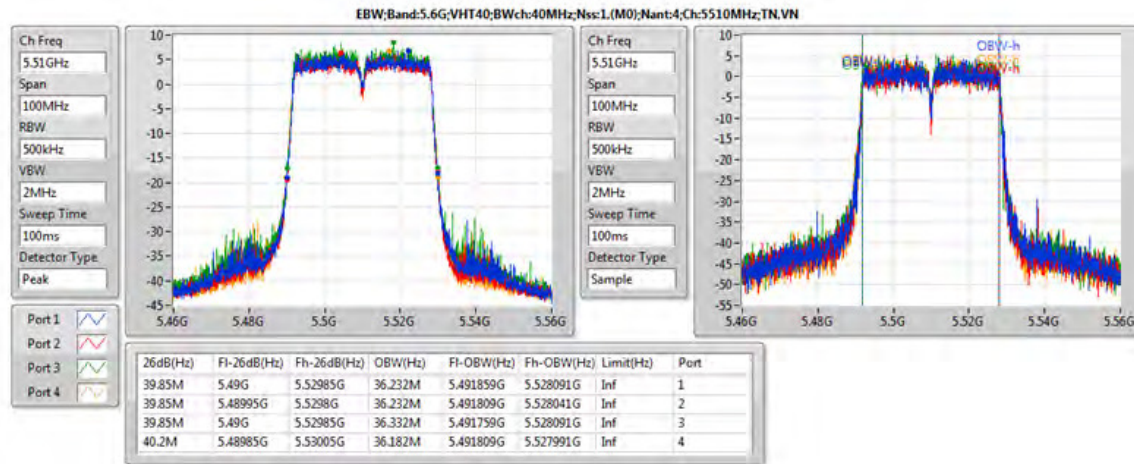
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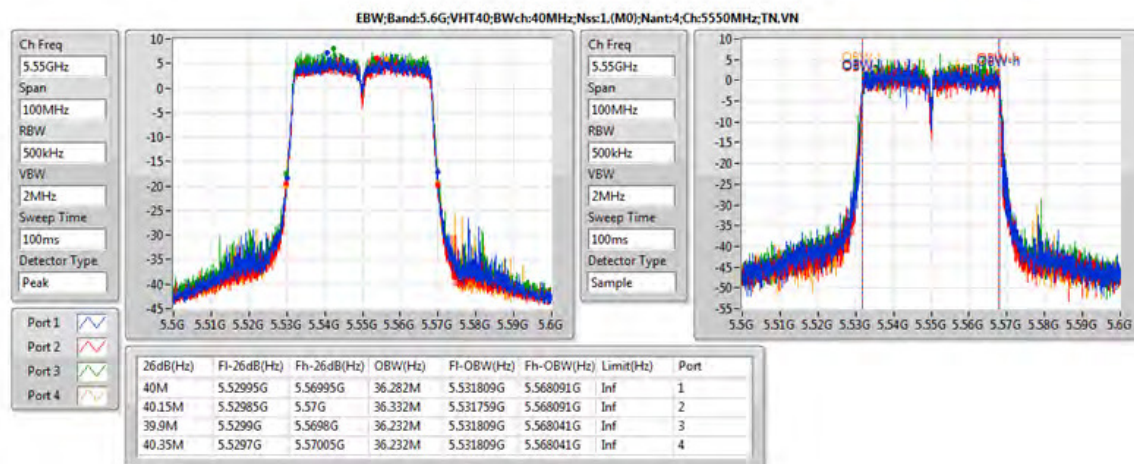
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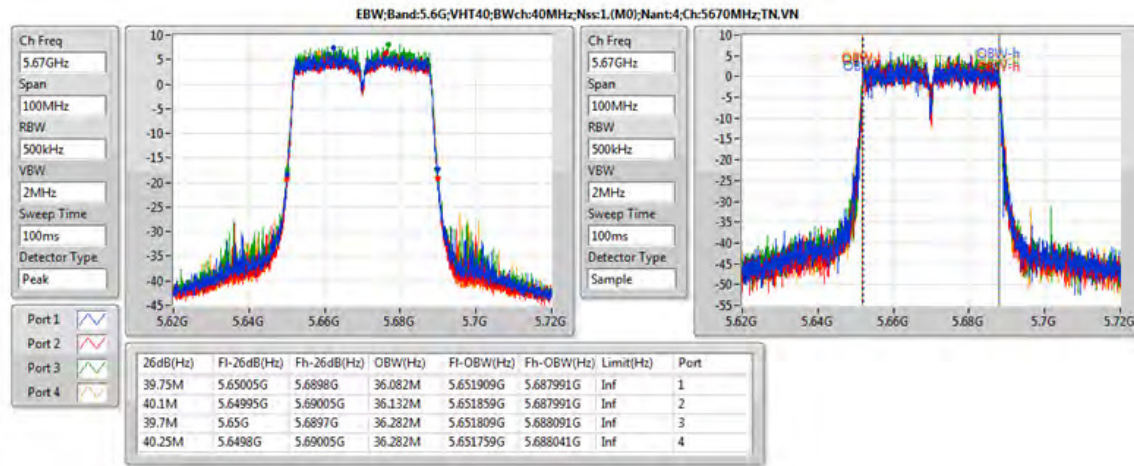
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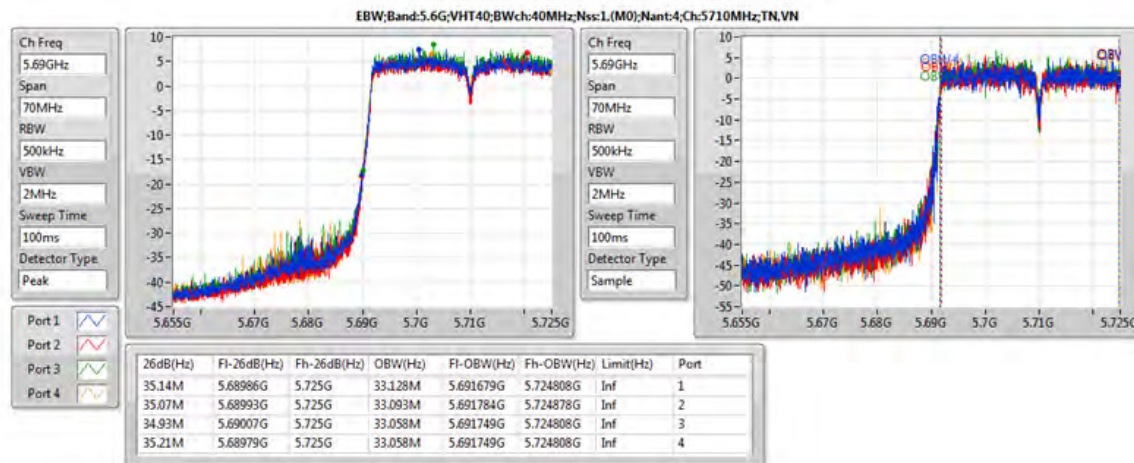
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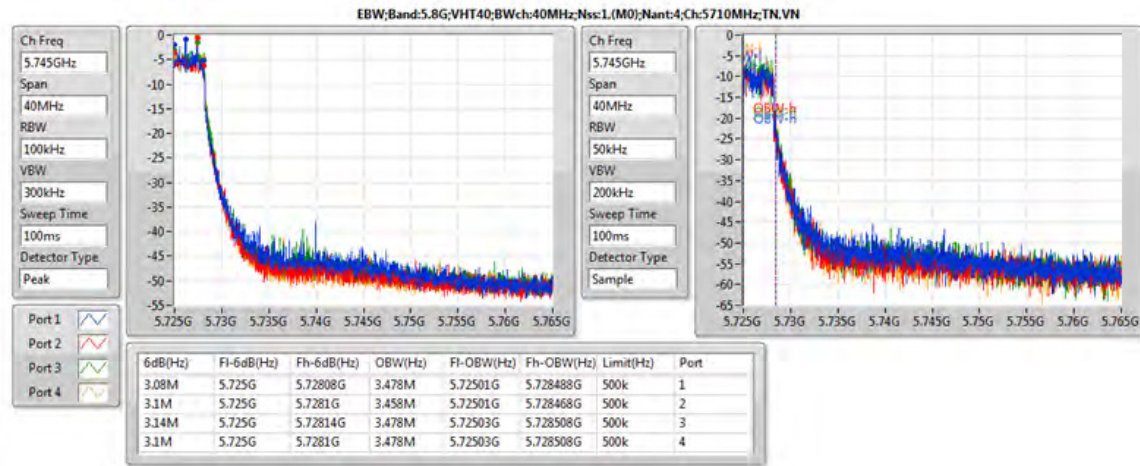
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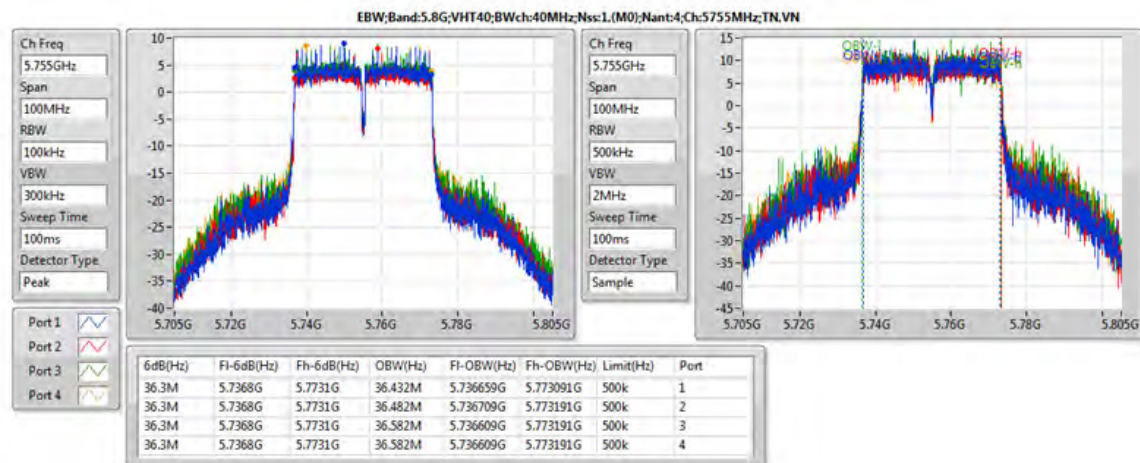
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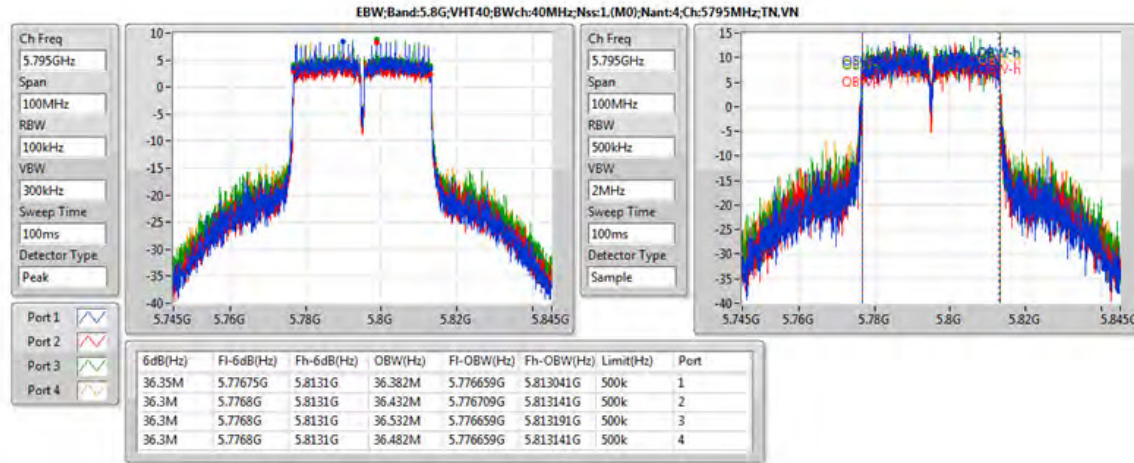
Emission Bandwidth on Configuration IEEE 802.11ac VHT40 / MCS0 Nss1 / UNII-3 5710MHz / 4TX



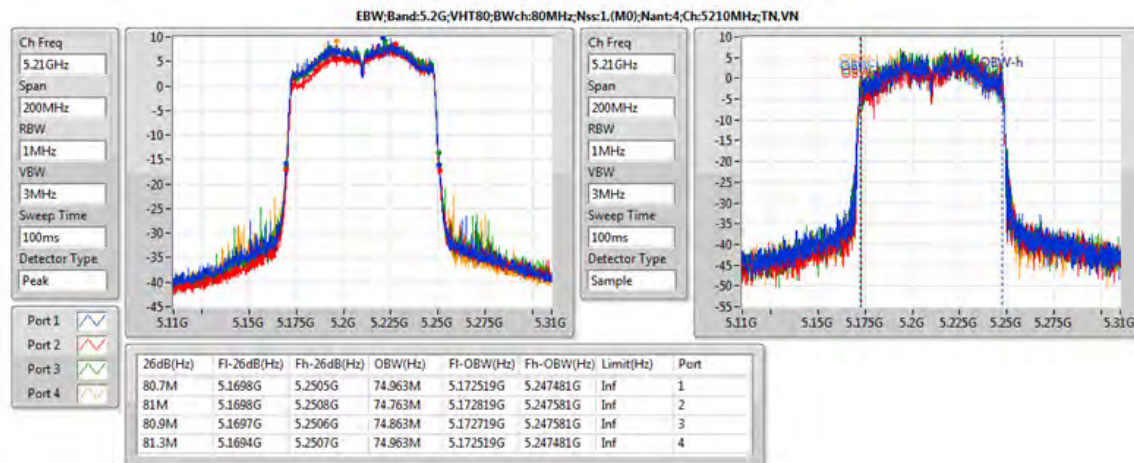
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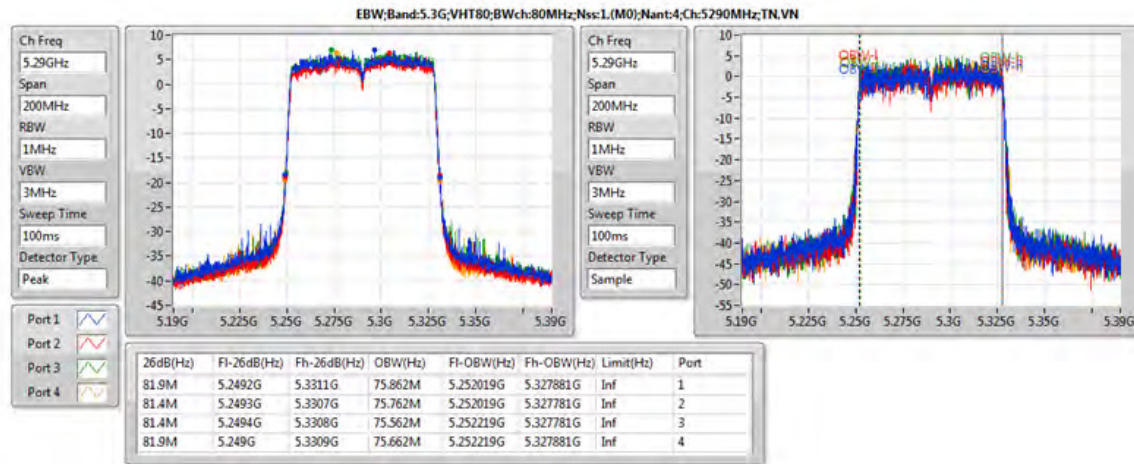
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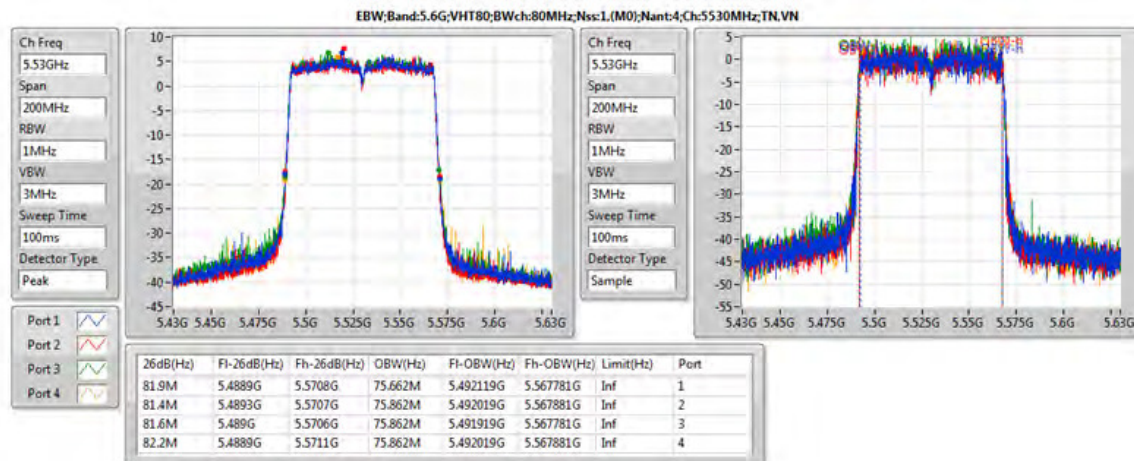
Emission Bandwidth on Configuration IEEE 802.11ac VHT80 / MCS0 Nss1 / UNII-1 5210MHz / 4TX



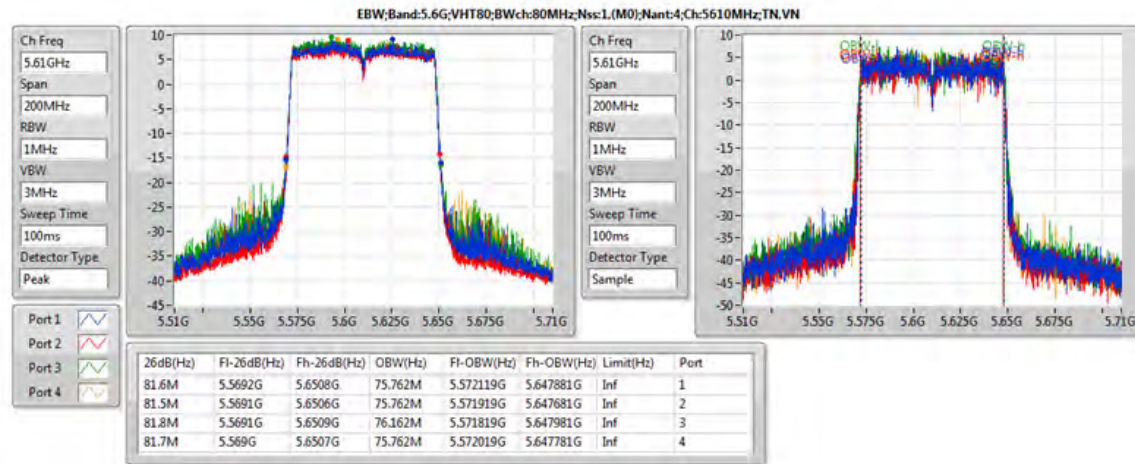
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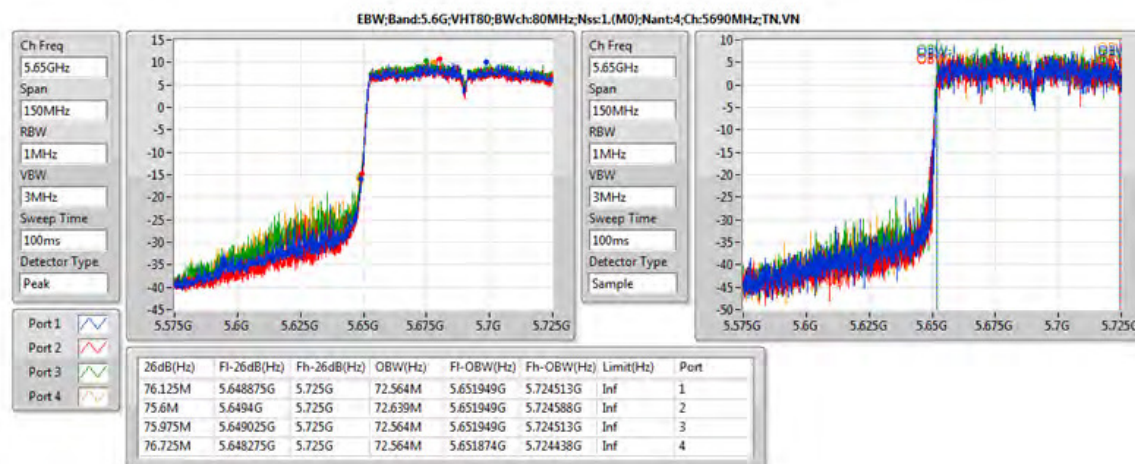
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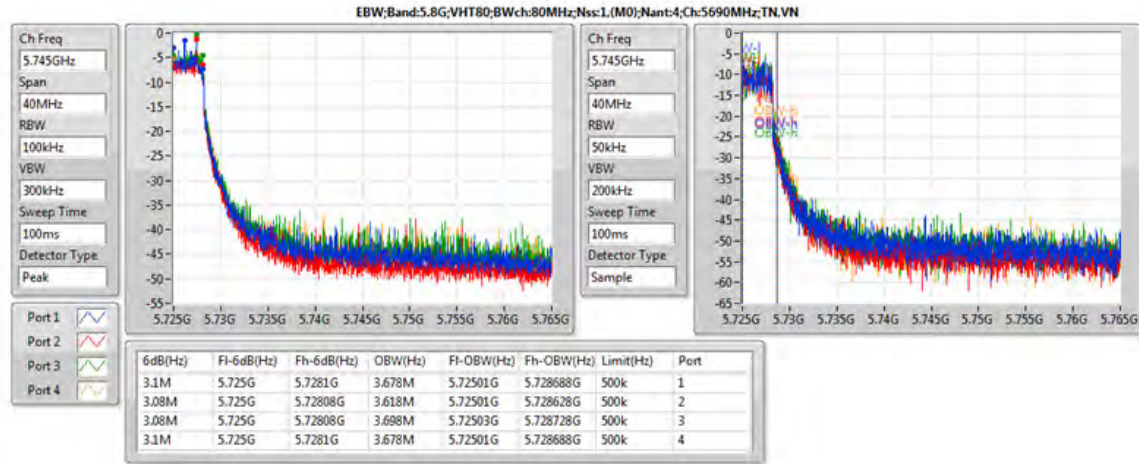
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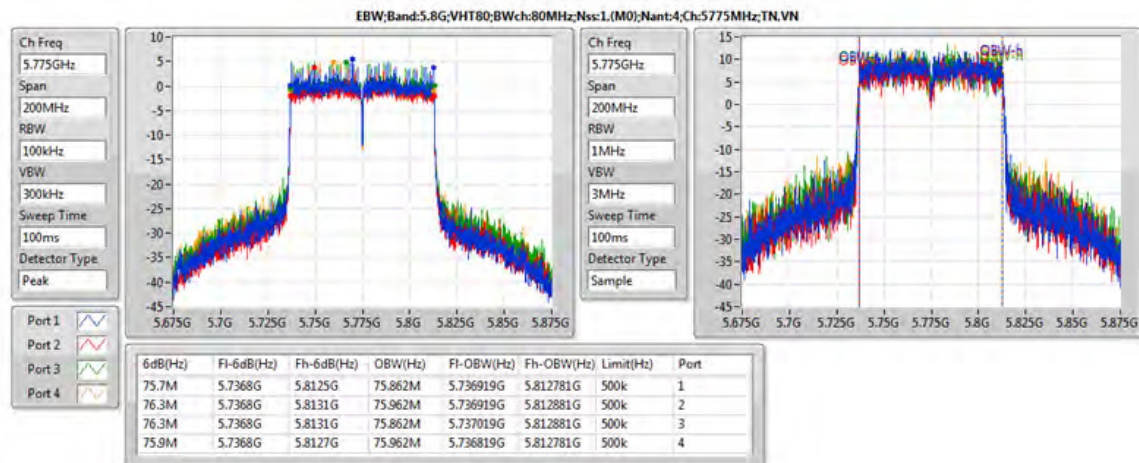
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Emission Bandwidth on Configuration IEEE 802.11ac VHT80 / MCS0 Nss1 / UNII-3 5690MHz / 4TX

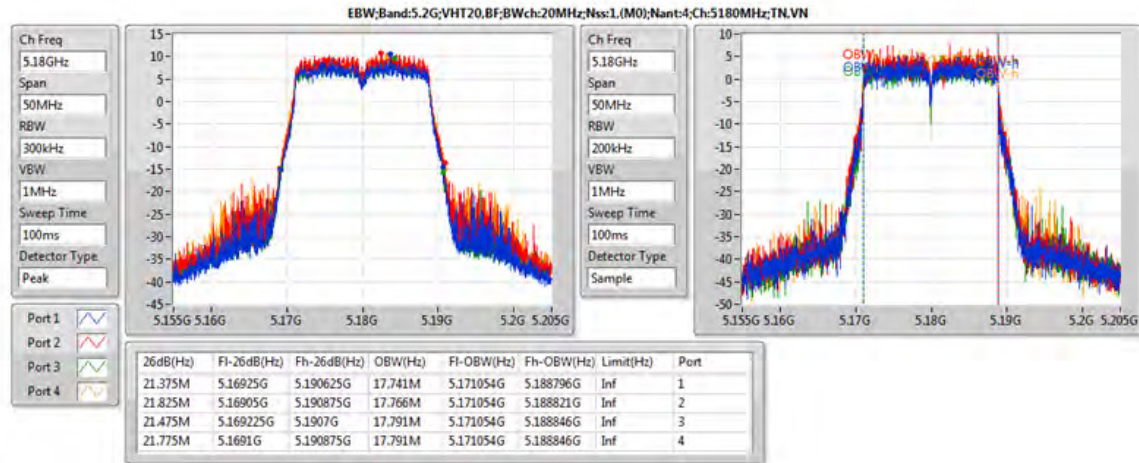


Emission Bandwidth on Configuration IEEE 802.11ac VHT80 / MCS0 Nss1 / UNII-3 5775MHz / 4TX

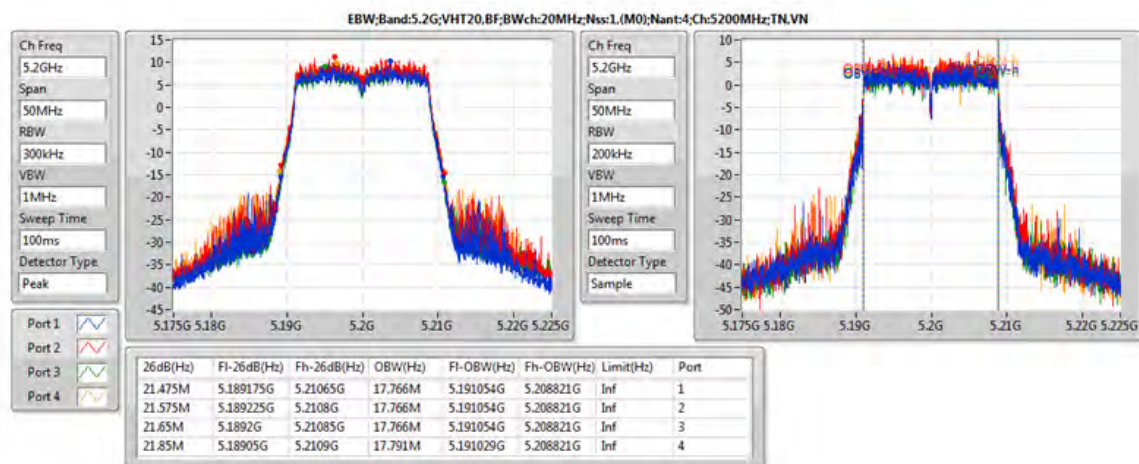


For beamforming mode

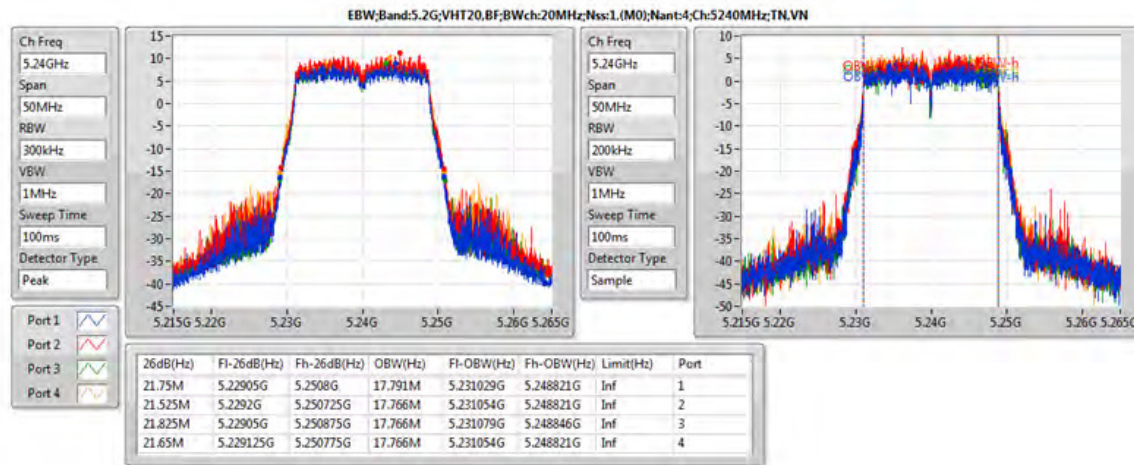
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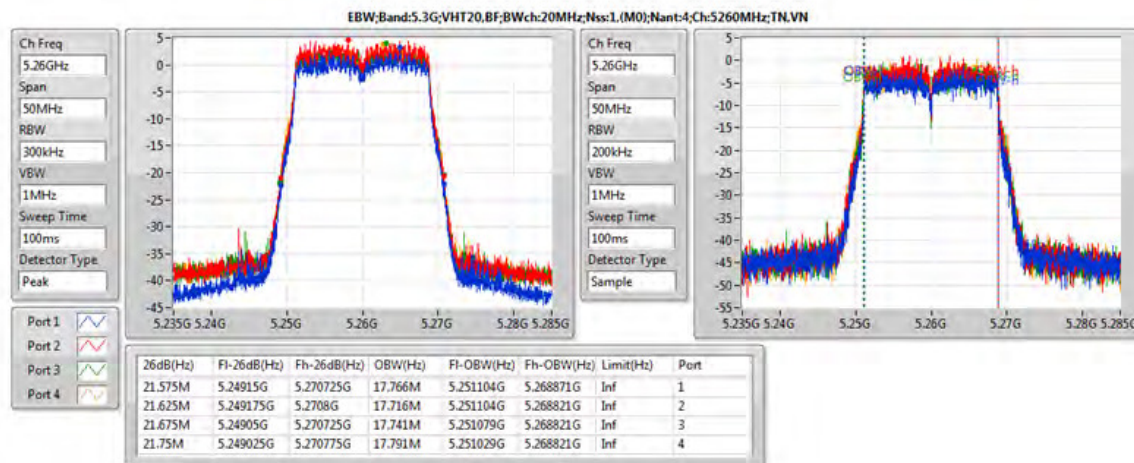
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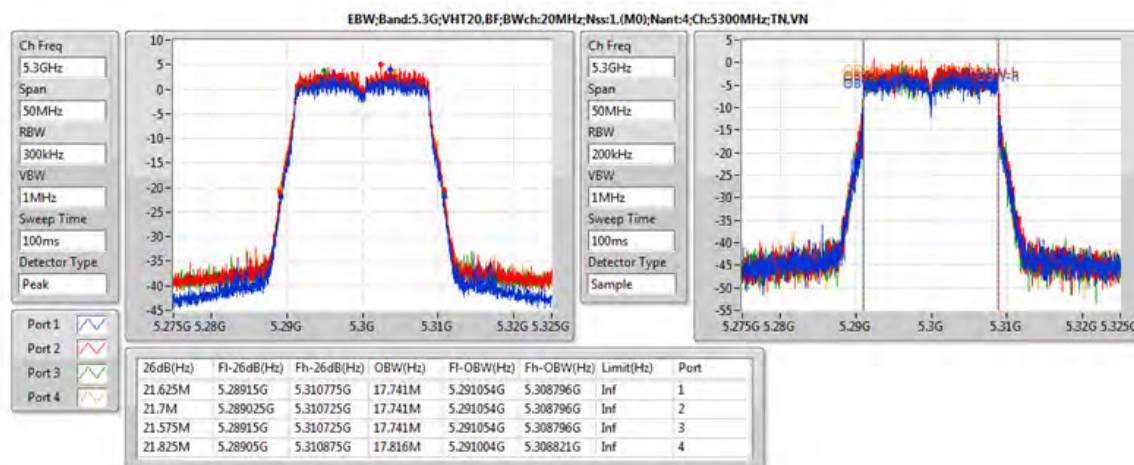
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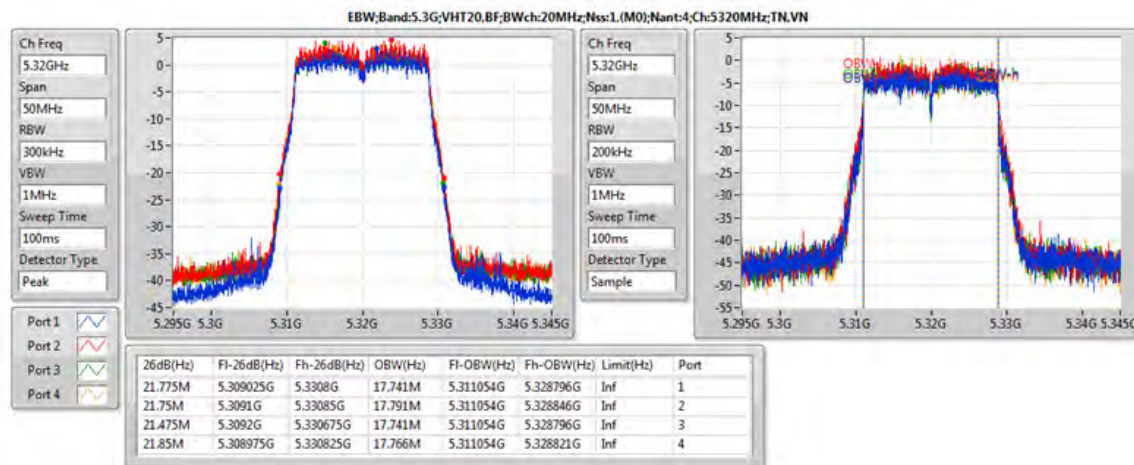
Emission Bandwidth on Configuration IEEE 802.11ac VHT20(BF) / MCS0 Nss1 / UNII-2A 5260MHz / 4TX



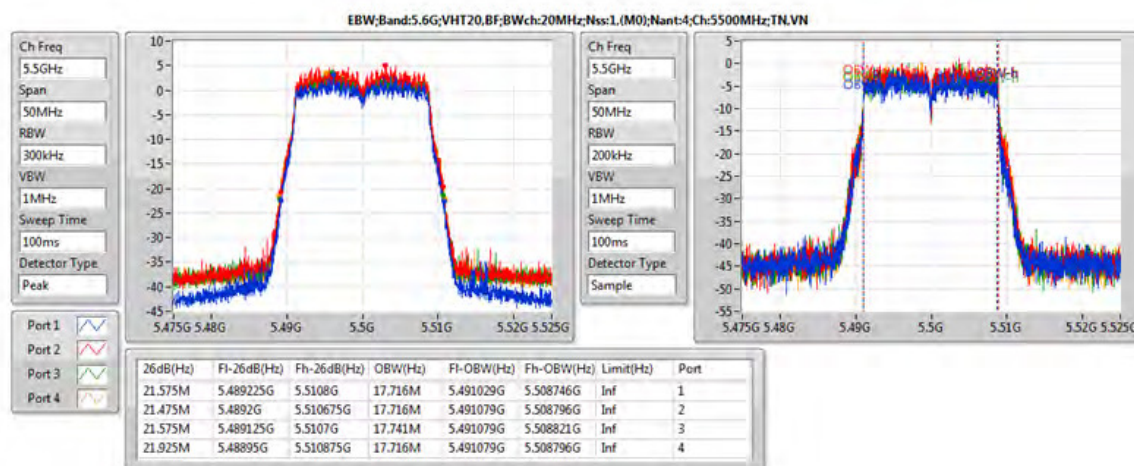
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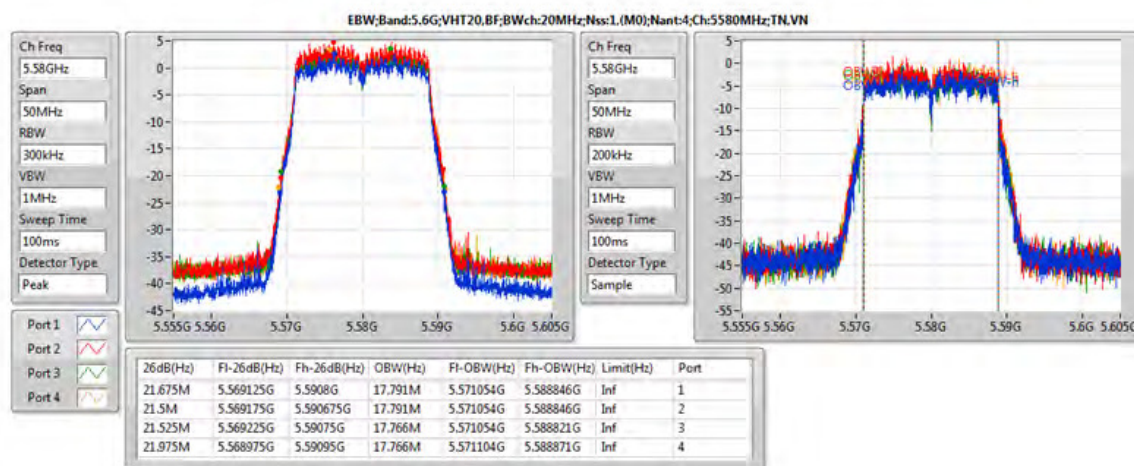
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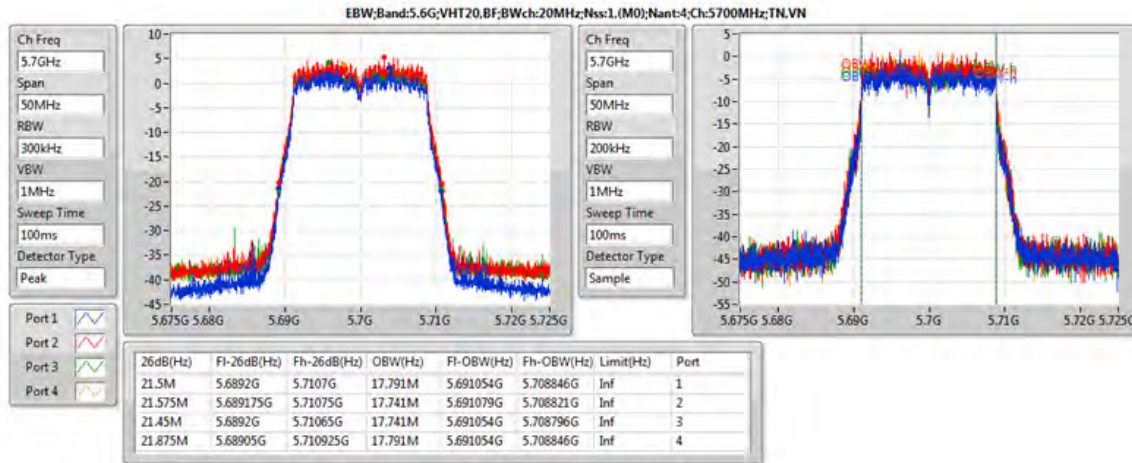
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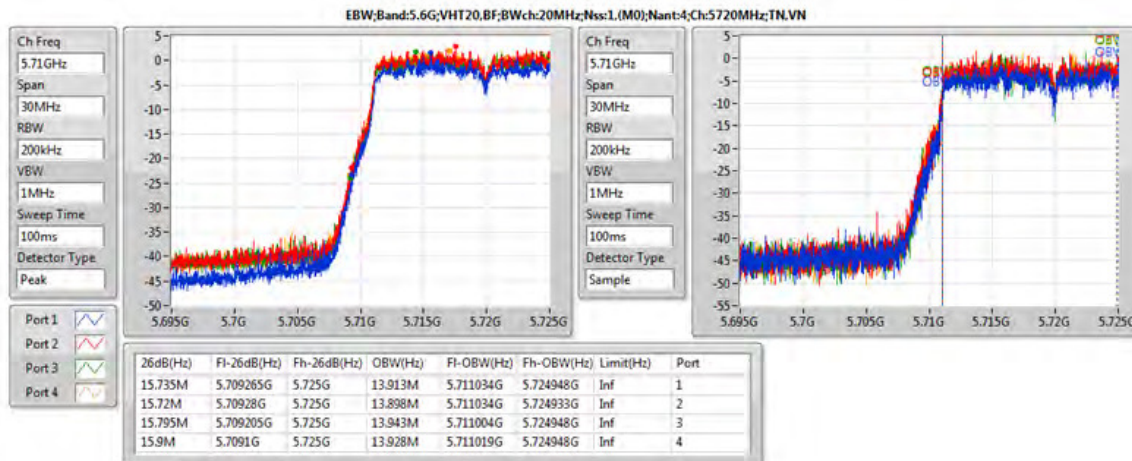
Emission Bandwidth on Configuration IEEE 802.11ac VHT20(BF) / MCS0 Nss1 / UNII-2C 5580MHz / 4TX



Emission Bandwidth on Configuration IEEE 802.11ac VHT20(BF) / MCS0 Nss1 / UNII-2C 5700MHz / 4TX



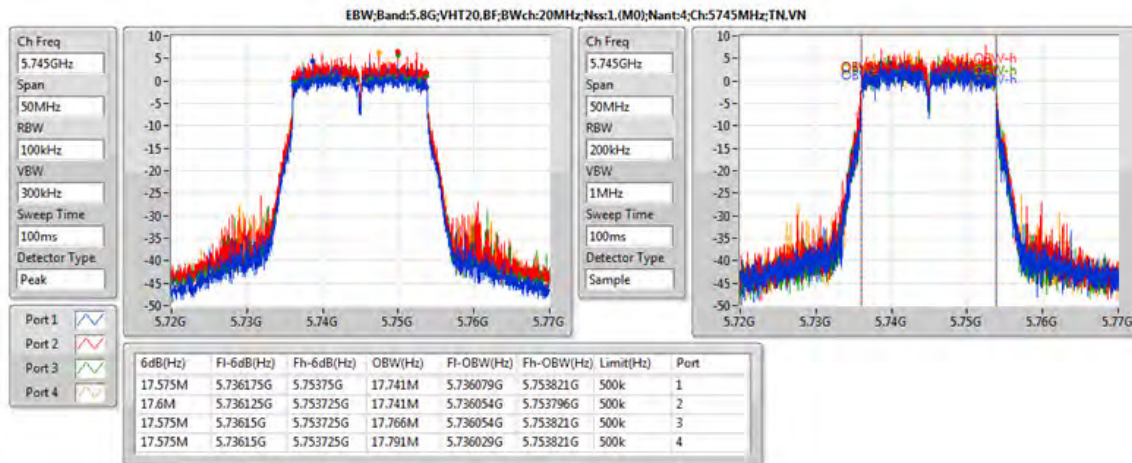
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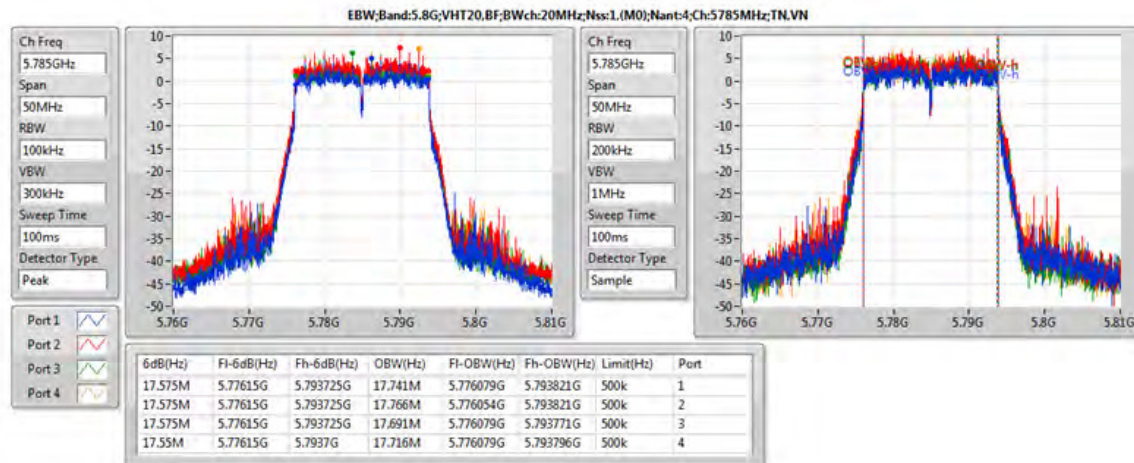
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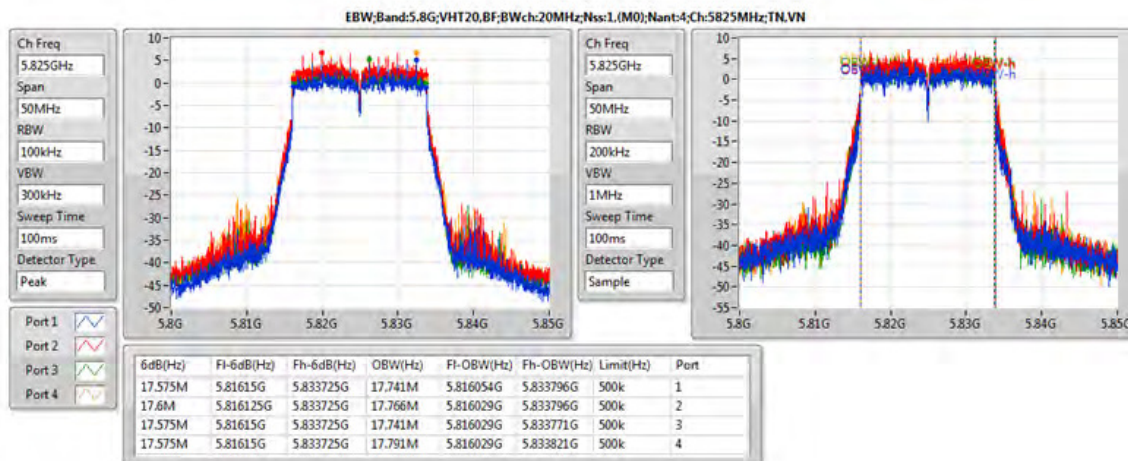
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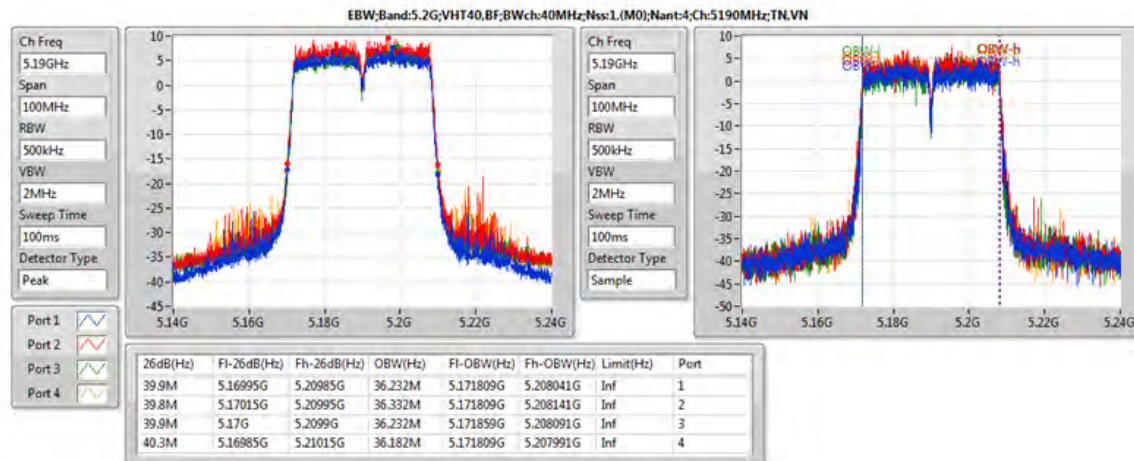
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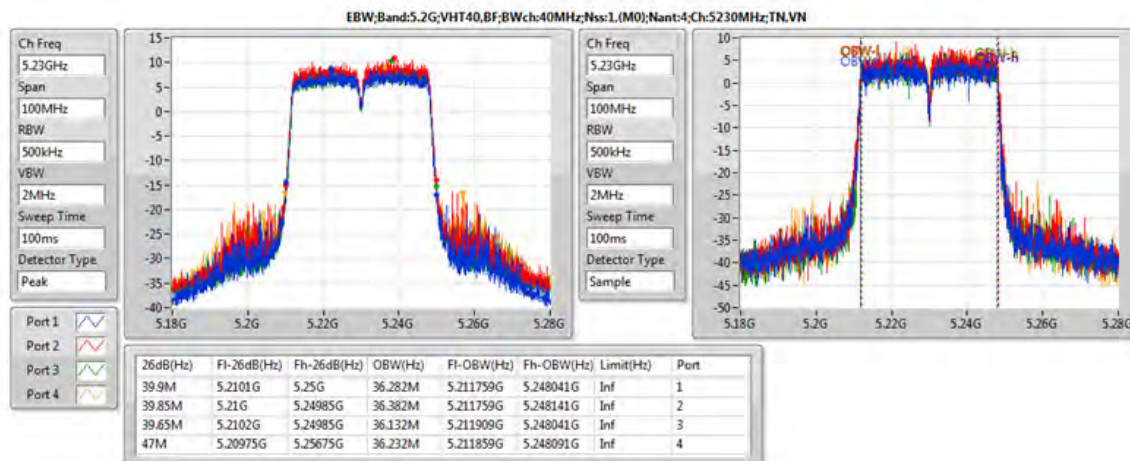
Emission Bandwidth on Configuration IEEE 802.11ac VHT20(BF) / MCS0 Nss1 / UNII-3 5825MHz / 4TX



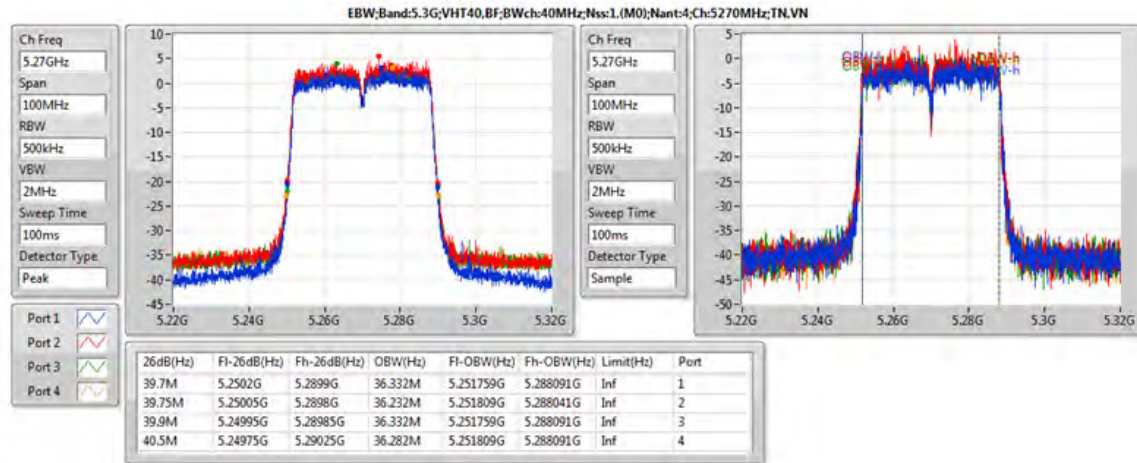
Emission Bandwidth on Configuration IEEE 802.11ac VHT40(BF) / MCS0 Nss1 / UNII-1 5190MHz / 4TX



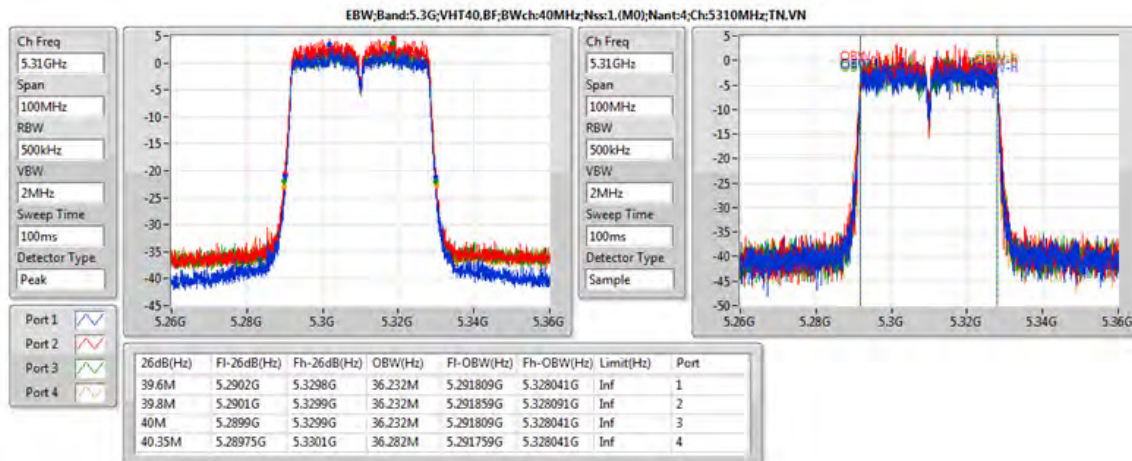
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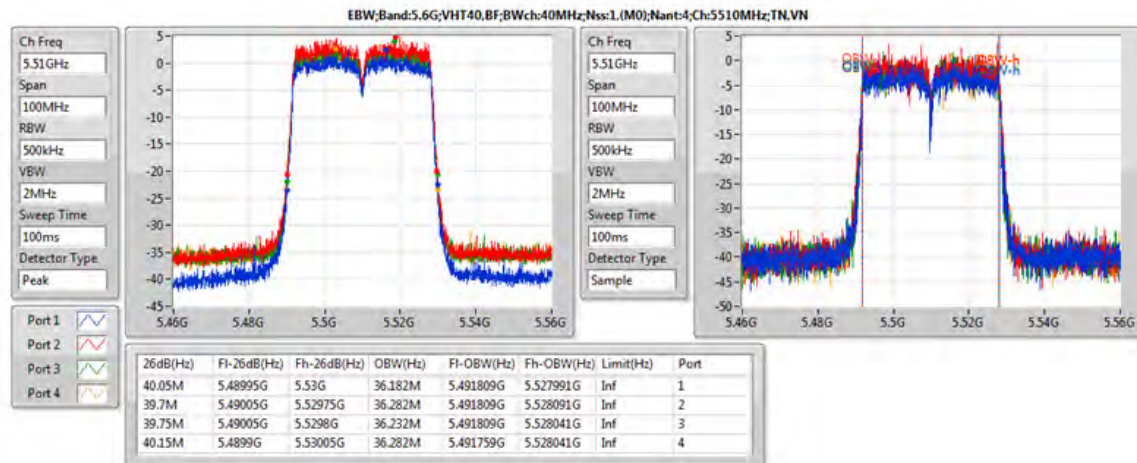
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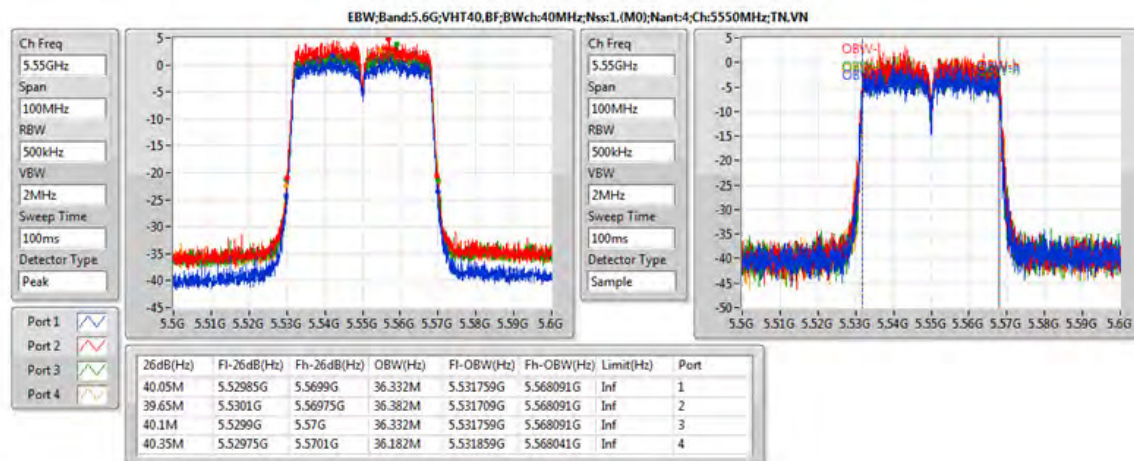
Emission Bandwidth on Configuration IEEE 802.11ac VHT40(BF) / MCS0 Nss1 / UNII-2A 5310MHz / 4TX



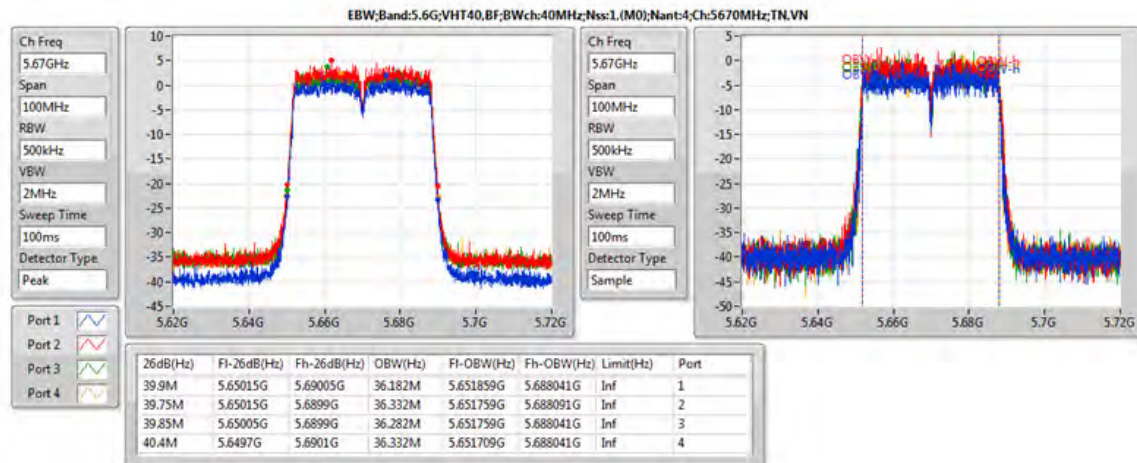
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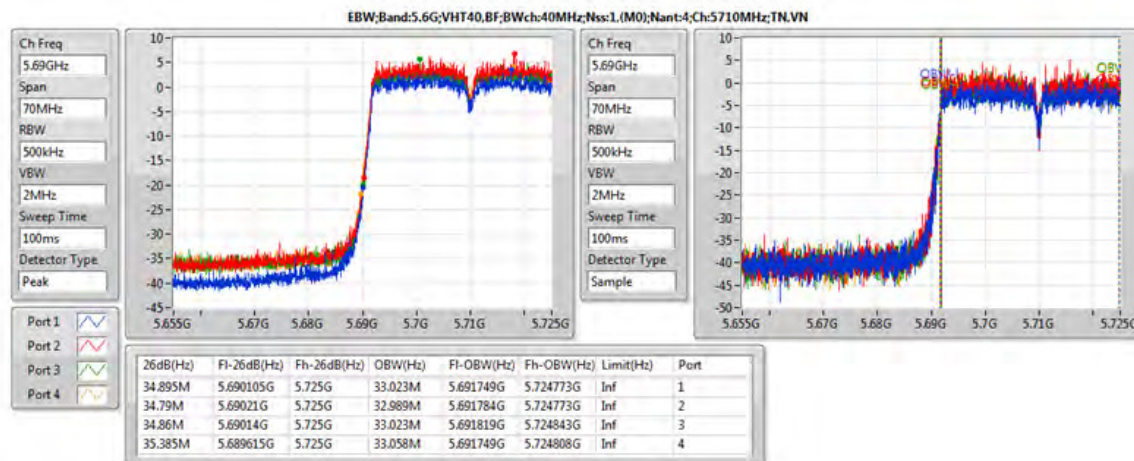
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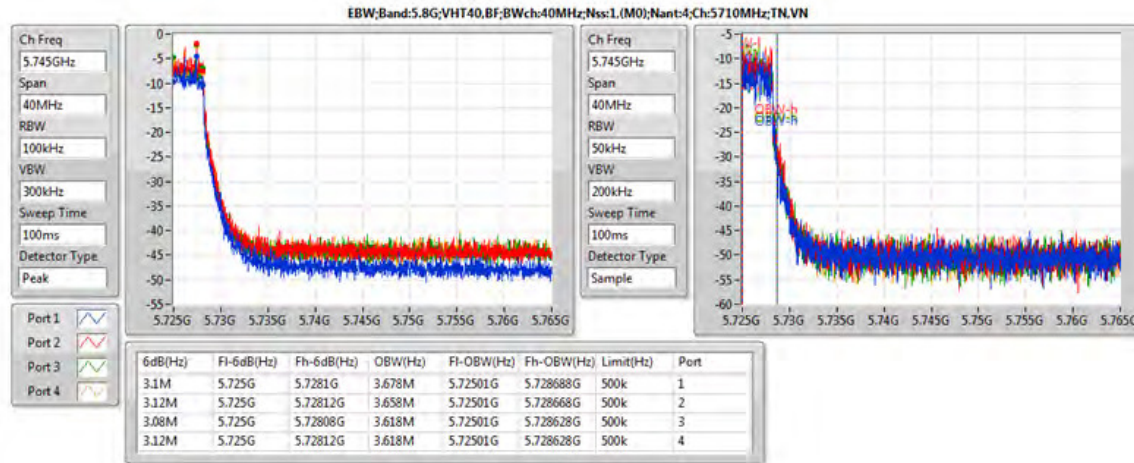
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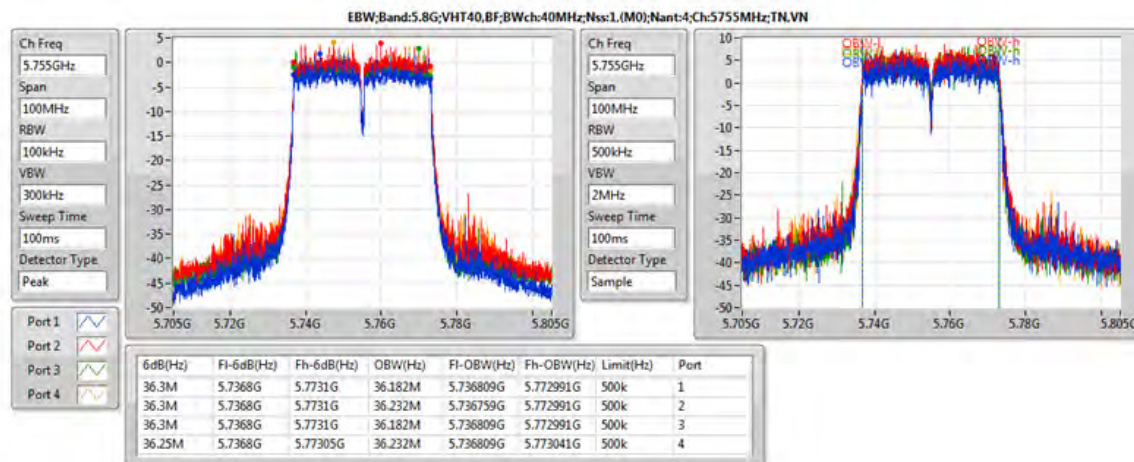
Emission Bandwidth on Configuration IEEE 802.11ac VHT40(BF) / MCS0 Nss1 / UNII-2C 5710MHz / 4TX



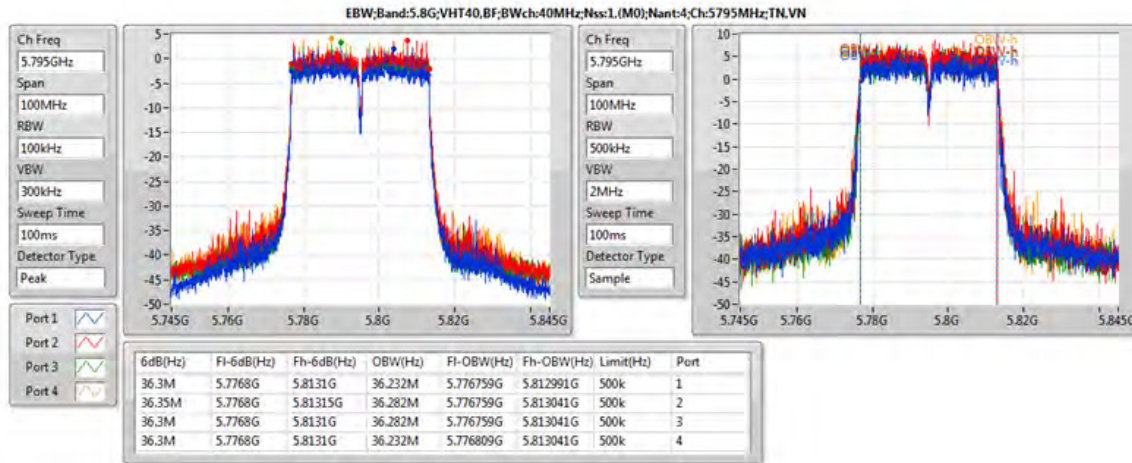
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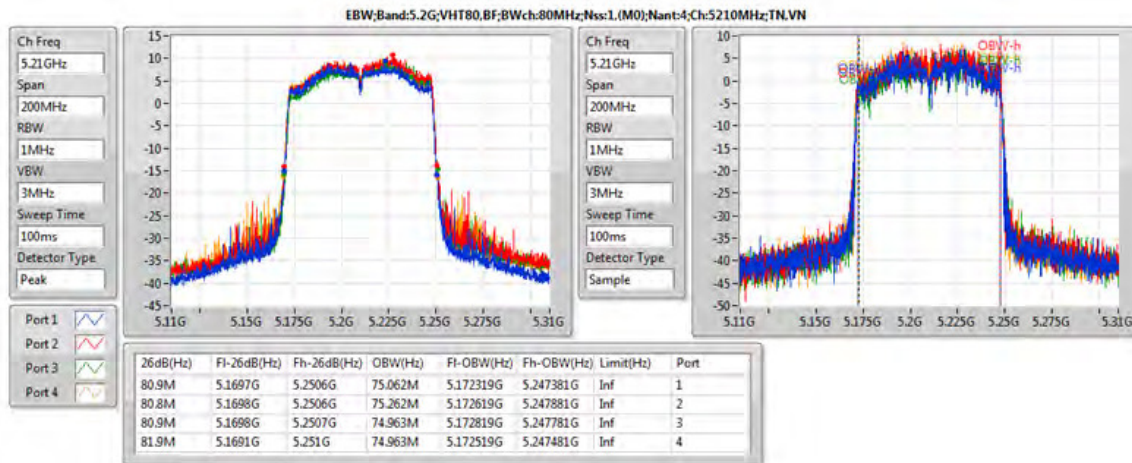
Emission Bandwidth on Configuration IEEE 802.11ac VHT40(BF) / MCS0 Nss1 / UNII-3 5755MHz / 4TX



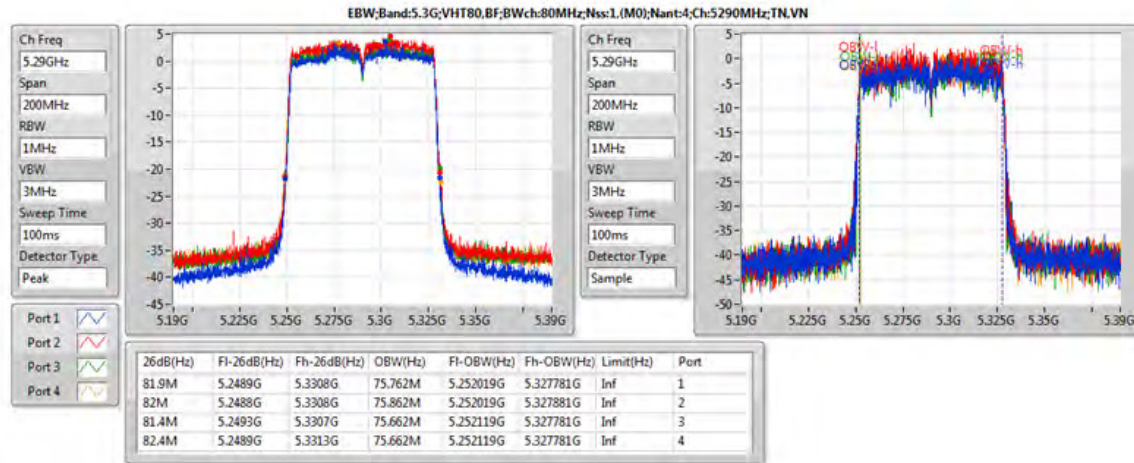
Emission Bandwidth on Configuration IEEE 802.11ac VHT40(BF) / MCS0 Nss1 / UNII-3 5795MHz / 4TX



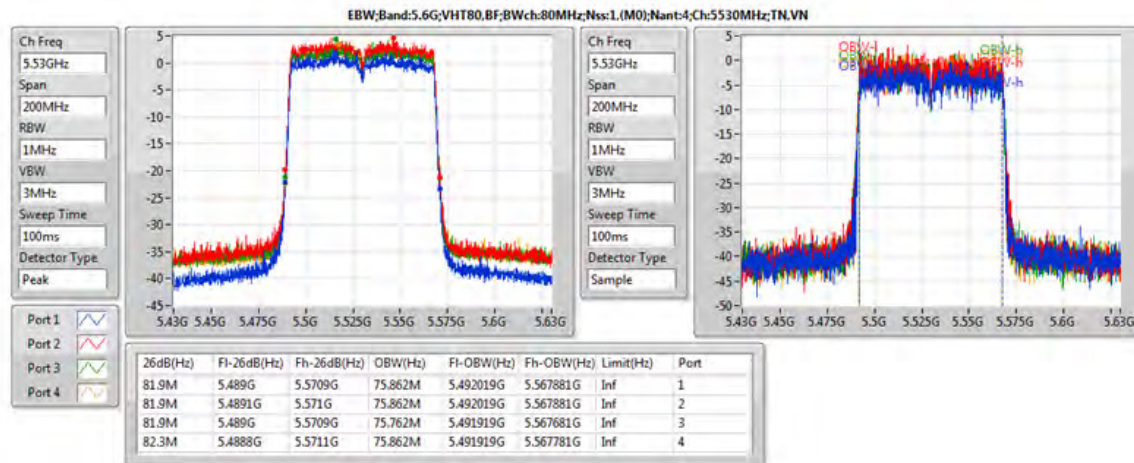
Emission Bandwidth on Configuration IEEE 802.11ac VHT80(BF) / MCS0 Nss1 / UNII-1 5210MHz / 4TX



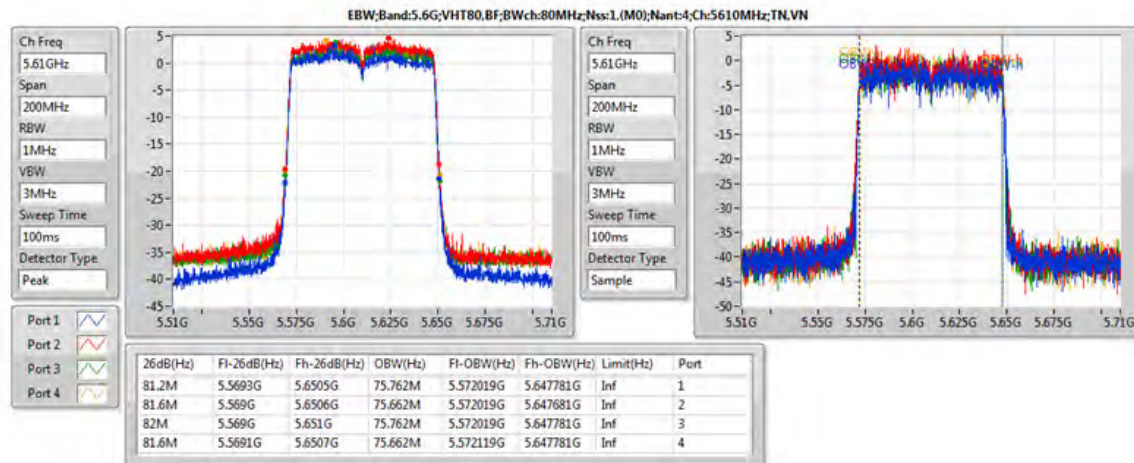
Emission Bandwidth on Configuration IEEE 802.11ac VHT80(BF) / MCS0 Nss1 / UNII-2A 5290MHz / 4TX



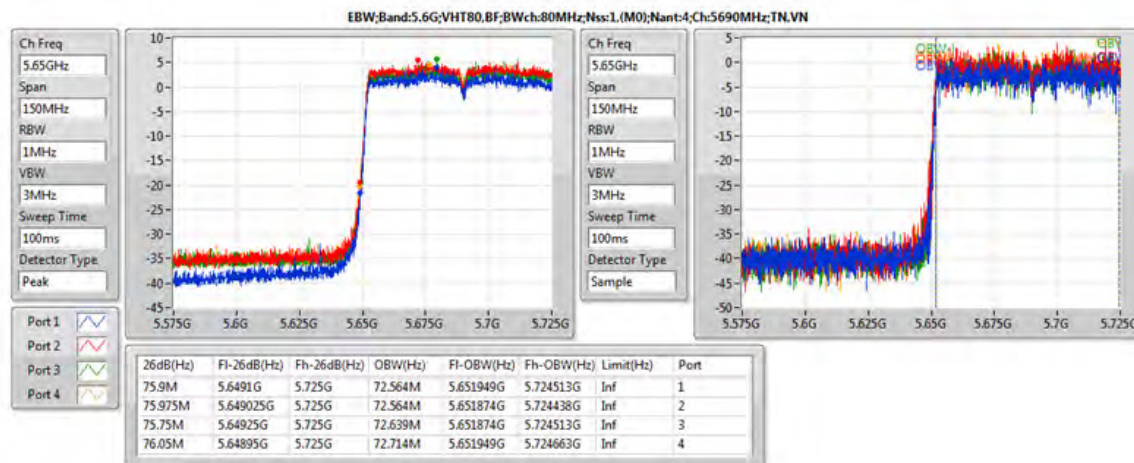
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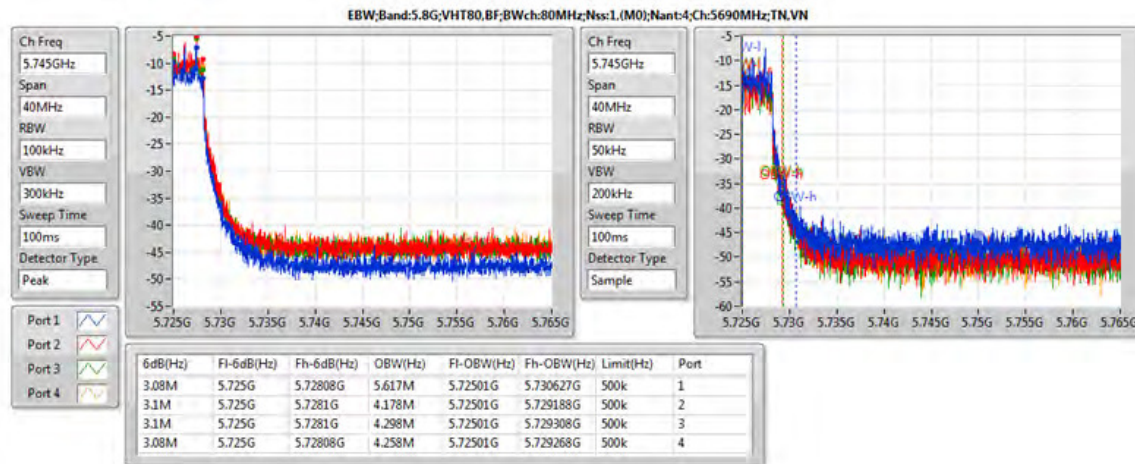
Emission Bandwidth on Configuration IEEE 802.11ac VHT80(BF) / MCS0 Nss1 / UNII-2C 5610MHz / 4TX



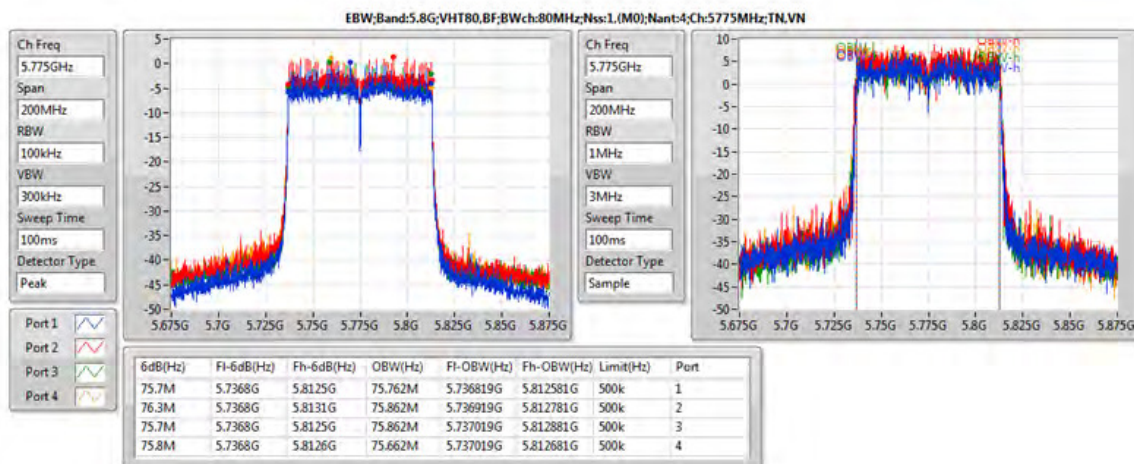
Emission Bandwidth on Configuration IEEE 802.11ac VHT80(BF) / MCS0 Nss1 / UNII-2C 5690MHz / 4TX



Emission Bandwidth on Configuration IEEE 802.11ac VHT80(BF) / MCS0 Nss1 / UNII-3 5690MHz / 4TX



Emission Bandwidth on Configuration IEEE 802.11ac VHT80(BF) / MCS0 Nss1 / UNII-3 5775MHz / 4TX



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

3.3.2 Measuring Instruments

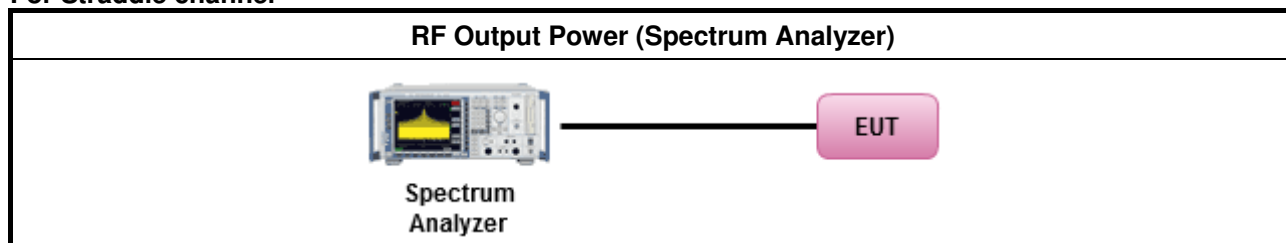
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

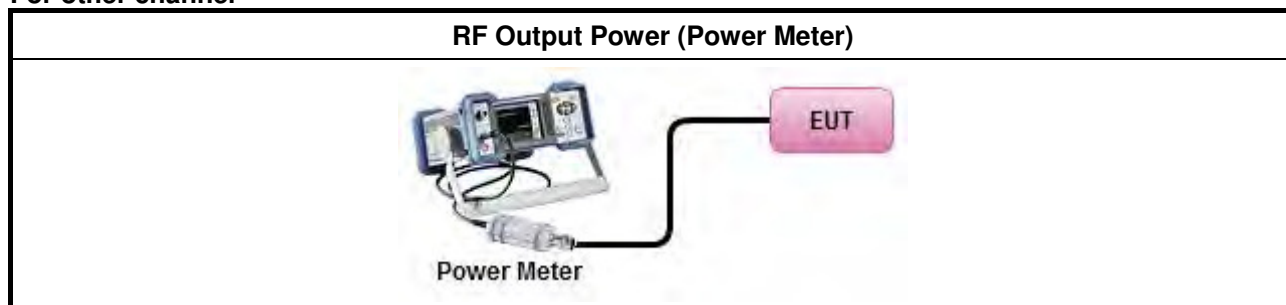
Test Method	
Maximum Conducted Output Power	
	average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off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

For Straddle channel



For other channel



3.3.5 Test Result of Maximum Conducted Output Power

Mode	Result	Directional Gain (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Output Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
UNII-1 802.11a 6Mbps 5180Mhz 4TX	Pass	6.23	18.75	18.88	19.16	19.15	25.01	29.77	31.24	36.00
UNII-1 802.11a 6Mbps 5200Mhz 4TX	Pass	6.23	18.88	18.81	19.18	19.34	25.08	29.77	31.31	36.00
UNII-1 802.11a 6Mbps 5240Mhz 4TX	Pass	6.23	18.43	18.85	19.01	18.93	24.83	29.77	31.06	36.00
UNII-2A 802.11a 6Mbps 5260Mhz 4TX	Pass	6.23	12.61	13.51	13.07	12.81	19.03	23.75	25.26	36.00
UNII-2A 802.11a 6Mbps 5300Mhz 4TX	Pass	6.23	12.90	12.49	13.19	13.26	18.99	23.75	25.22	36.00
UNII-2A 802.11a 6Mbps 5320Mhz 4TX	Pass	6.23	12.77	12.39	13.28	13.22	18.95	23.75	25.18	36.00
UNII-2C 802.11a 6Mbps 5500Mhz 4TX	Pass	6.23	12.66	12.11	12.99	12.91	18.70	23.75	24.93	36.00
UNII-2C 802.11a 6Mbps 5580Mhz 4TX	Pass	6.23	12.66	12.22	13.07	12.93	18.75	23.75	24.98	36.00
UNII-2C 802.11a 6Mbps 5700Mhz 4TX	Pass	6.23	12.69	12.06	12.73	12.89	18.62	23.75	24.85	36.00
UNII-2C 802.11a 6Mbps 5720Mhz 4TX	Pass	6.23	10.78	10.36	10.86	10.93	16.76	22.71	22.99	36.00
UNII-3 802.11a 6Mbps 5720Mhz 4TX	Pass	6.23	4.41	3.69	4.82	4.80	10.47	29.77	16.70	36.00
UNII-3 802.11a 6Mbps 5745Mhz 4TX	Pass	6.23	23.50	22.89	24.01	23.51	29.52	29.77	35.75	36.00
UNII-3 802.11a 6Mbps 5785Mhz 4TX	Pass	6.23	23.50	22.85	23.89	23.72	29.53	29.77	35.76	36.00
UNII-3 802.11a 6Mbps 5825Mhz 4TX	Pass	6.23	23.35	23.20	24.21	23.47	29.60	29.77	35.83	36.00
UNII-1 802.11ac VHT20 MCS0 5180Mhz 4TX	Pass	6.23	18.64	18.86	19.05	19.24	24.97	29.77	31.20	36.00
UNII-1 802.11ac VHT20 MCS0 5200Mhz 4TX	Pass	6.23	18.71	18.24	19.35	19.57	25.02	29.77	31.25	36.00
UNII-1 802.11ac VHT20 MCS0 5240Mhz 4TX	Pass	6.23	18.70	18.22	19.39	19.34	24.96	29.77	31.19	36.00
UNII-2A 802.11ac VHT20 MCS0 5260Mhz 4TX	Pass	6.23	12.82	12.46	13.27	13.08	18.94	23.75	25.17	36.00
UNII-2A 802.11ac VHT20 MCS0 5300Mhz 4TX	Pass	6.23	12.71	12.47	13.21	13.13	18.91	23.75	25.14	36.00
UNII-2A 802.11ac VHT20 MCS0 5320Mhz 4TX	Pass	6.23	12.59	12.24	13.41	13.12	18.88	23.75	25.11	36.00
UNII-2C 802.11ac VHT20 MCS0 5500Mhz 4TX	Pass	6.23	12.52	11.94	13.05	12.88	18.64	23.75	24.87	36.00
UNII-2C 802.11ac VHT20 MCS0 5580Mhz 4TX	Pass	6.23	12.64	11.92	13.28	12.68	18.68	23.75	24.91	36.00
UNII-2C 802.11ac VHT20 MCS0 5700Mhz 4TX	Pass	6.23	12.71	12.25	13.07	12.95	18.78	23.75	25.01	36.00
UNII-2C 802.11ac VHT20 MCS0 5720Mhz 4TX	Pass	6.23	10.66	10.04	10.73	10.87	16.61	22.74	22.84	36.00
UNII-3 802.11ac VHT20 MCS0 5720Mhz 4TX	Pass	6.23	4.86	4.18	4.98	4.98	10.78	29.77	17.01	36.00
UNII-3 802.11ac VHT20 MCS0 5745Mhz 4TX	Pass	6.23	23.53	23.00	24.10	23.54	29.58	29.77	35.81	36.00
UNII-3 802.11ac VHT20 MCS0 5785Mhz 4TX	Pass	6.23	23.48	23.88	23.87	23.41	29.69	29.77	35.92	36.00
UNII-3 802.11ac VHT20 MCS0 5825Mhz 4TX	Pass	6.23	23.72	22.96	23.94	23.76	29.63	29.77	35.86	36.00
UNII-1 802.11ac VHT40 MCS0 5190Mhz 4TX	Pass	6.23	15.51	14.92	15.73	16.13	21.61	29.77	27.84	36.00



FCC Test Report

Report No. : FR6N1118AB

Mode	Result	Directional Gain (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Output Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
UNII-1 802.11ac VHT40 MCS0 5230Mhz 4TX	Pass	6.23	21.31	22.63	22.04	22.06	28.06	29.77	34.29	36.00
UNII-2A 802.11ac VHT40 MCS0 5270Mhz 4TX	Pass	6.23	15.60	15.05	15.82	16.11	21.68	23.75	27.91	36.00
UNII-2A 802.11ac VHT40 MCS0 5310Mhz 4TX	Pass	6.23	15.79	15.45	16.31	16.15	21.96	23.75	28.19	36.00
UNII-2C 802.11ac VHT40 MCS0 5510Mhz 4TX	Pass	6.23	15.62	15.14	16.25	15.98	21.79	23.75	28.02	36.00
UNII-2C 802.11ac VHT40 MCS0 5550Mhz 4TX	Pass	6.23	15.64	15.15	16.14	16.08	21.79	23.75	28.02	36.00
UNII-2C 802.11ac VHT40 MCS0 5670Mhz 4TX	Pass	6.23	15.05	15.19	16.17	15.97	21.64	23.75	27.87	36.00
UNII-2C 802.11ac VHT40 MCS0 5710Mhz 4TX	Pass	6.23	14.67	14.10	14.89	15.01	20.70	23.75	26.93	36.00
UNII-3 802.11ac VHT40 MCS0 5710Mhz 4TX	Pass	6.23	3.88	3.50	4.29	4.23	10.01	29.77	16.24	36.00
UNII-3 802.11ac VHT40 MCS0 5755Mhz 4TX	Pass	6.23	23.67	23.14	24.04	23.70	29.67	29.77	35.90	36.00
UNII-3 802.11ac VHT40 MCS0 5795Mhz 4TX	Pass	6.23	23.84	23.06	24.02	23.74	29.70	29.77	35.93	36.00
UNII-1 802.11ac VHT80 MCS0 5210Mhz 4TX	Pass	6.23	16.60	15.63	16.78	16.94	22.54	29.77	28.77	36.00
UNII-2A 802.11ac VHT80 MCS0 5290Mhz 4TX	Pass	6.23	15.01	14.42	15.27	15.27	21.03	23.75	27.26	36.00
UNII-2C 802.11ac VHT80 MCS0 5530Mhz 4TX	Pass	6.23	14.77	14.43	15.29	15.25	20.97	23.75	27.20	36.00
UNII-2C 802.11ac VHT80 MCS0 5610Mhz 4TX	Pass	6.23	17.47	16.95	18.18	17.87	23.66	23.75	29.89	36.00
UNII-2C 802.11ac VHT80 MCS0 5690Mhz 4TX	Pass	6.23	17.42	16.87	17.96	17.79	23.55	23.75	29.78	36.00
UNII-3 802.11ac VHT80 MCS0 5690Mhz 4TX	Pass	6.23	3.03	2.52	3.53	3.11	9.08	29.77	15.31	36.00
UNII-3 802.11ac VHT80 MCS0 5775Mhz 4TX	Pass	6.23	22.58	22.01	22.90	22.53	28.54	29.77	34.77	36.00
UNII-1 802.11ac VHT20(BF)MCS0 5180Mhz 4TX	Pass	11.76	17.65	18.59	17.44	18.75	24.17	24.24	35.93	36.00
UNII-1 802.11ac VHT20(BF)MCS0 5200Mhz 4TX	Pass	11.76	17.59	18.84	17.56	18.61	24.21	24.24	35.97	36.00
UNII-1 802.11ac VHT20(BF)MCS0 5240Mhz 4TX	Pass	11.76	17.31	18.78	17.58	18.72	24.17	24.24	35.93	36.00
UNII-2A 802.11ac VHT20(BF)MCS0 5260Mhz 4TX	Pass	11.76	11.56	12.45	12.07	12.35	18.14	18.22	29.90	36.00
UNII-2A 802.11ac VHT20(BF)MCS0 5300Mhz 4TX	Pass	11.76	11.28	12.76	11.94	12.32	18.13	18.22	29.89	36.00
UNII-2A 802.11ac VHT20(BF)MCS0 5320Mhz 4TX	Pass	11.76	11.22	12.93	11.84	12.35	18.15	18.22	29.91	36.00
UNII-2C 802.11ac VHT20(BF)MCS0 5500Mhz 4TX	Pass	11.76	11.26	12.97	12.02	12.14	18.16	18.22	29.92	36.00
UNII-2C 802.11ac VHT20(BF)MCS0 5580Mhz 4TX	Pass	11.76	11.47	12.65	11.81	12.37	18.12	18.22	29.88	36.00



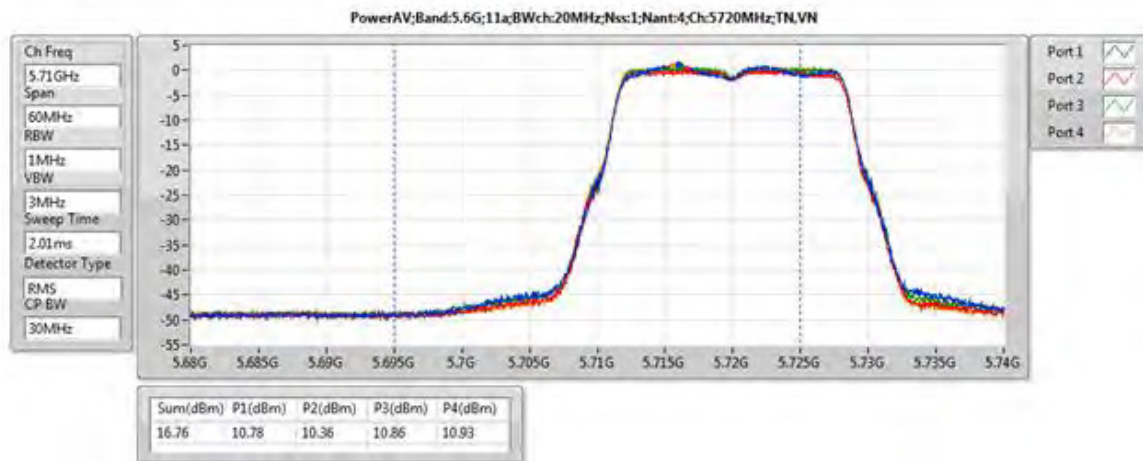
FCC Test Report

Report No. : FR6N1118AB

Mode	Result	Directional Gain (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Output Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
UNII-2C 802.11ac VHT20(BF)MCS0 5700Mhz 4TX	Pass	11.76	11.33	12.62	12.26	12.34	18.18	18.22	29.94	36.00
UNII-2C 802.11ac VHT20(BF)MCS0 5720Mhz 4TX	Pass	11.76	9.67	11.73	10.90	11.30	16.99	17.20	28.75	36.00
UNII-3 802.11ac VHT20(BF)MCS0 5720Mhz 4TX	Pass	11.76	4.03	5.90	5.01	5.50	11.19	24.24	22.95	36.00
UNII-3 802.11ac VHT20(BF)MCS0 5745Mhz 4TX	Pass	11.76	18.17	18.67	17.73	18.15	24.21	24.24	35.97	36.00
UNII-3 802.11ac VHT20(BF)MCS0 5785Mhz 4TX	Pass	11.76	17.55	18.64	17.85	18.57	24.20	24.24	35.96	36.00
UNII-3 802.11ac VHT20(BF)MCS0 5825Mhz 4TX	Pass	11.76	17.19	18.52	17.74	18.41	24.02	24.24	35.78	36.00
UNII-1 802.11ac VHT40(BF)MCS0 5190Mhz 4TX	Pass	11.76	16.03	17.49	15.98	17.12	22.73	24.24	34.49	36.00
UNII-1 802.11ac VHT40(BF)MCS0 5230Mhz 4TX	Pass	11.76	17.25	18.83	17.79	18.73	24.22	24.24	35.98	36.00
UNII-2A 802.11ac VHT40(BF)MCS0 5270Mhz 4TX	Pass	11.76	11.31	12.84	11.85	12.54	18.20	18.22	29.96	36.00
UNII-2A 802.11ac VHT40(BF)MCS0 5310Mhz 4TX	Pass	11.76	11.36	12.93	11.92	12.35	18.20	18.22	29.96	36.00
UNII-2C 802.11ac VHT40(BF)MCS0 5510Mhz 4TX	Pass	11.76	11.25	12.72	11.77	12.29	18.06	18.22	29.82	36.00
UNII-2C 802.11ac VHT40(BF)MCS0 5550Mhz 4TX	Pass	11.76	11.17	12.78	11.72	12.37	18.07	18.22	29.83	36.00
UNII-2C 802.11ac VHT40(BF)MCS0 5670Mhz 4TX	Pass	11.76	11.08	12.59	11.87	12.32	18.02	18.22	29.78	36.00
UNII-2C 802.11ac VHT40(BF)MCS0 5710Mhz 4TX	Pass	11.76	10.73	12.84	12.06	12.44	18.11	18.22	29.87	36.00
UNII-3 802.11ac VHT40(BF)MCS0 5710Mhz 4TX	Pass	11.76	-0.17	2.04	1.42	1.77	7.36	24.24	19.13	36.00
UNII-3 802.11ac VHT40(BF)MCS0 5755Mhz 4TX	Pass	11.76	17.13	18.71	17.83	18.56	24.12	24.24	35.88	36.00
UNII-3 802.11ac VHT40(BF)MCS0 5795Mhz 4TX	Pass	11.76	17.08	18.81	17.63	18.78	24.16	24.24	35.92	36.00
UNII-1 802.11ac VHT80(BF)MCS0 5210Mhz 4TX	Pass	11.76	16.46	17.81	16.63	17.76	23.23	24.24	34.99	36.00
UNII-2A 802.11ac VHT80(BF)MCS0 5290Mhz 4TX	Pass	11.76	11.49	12.84	11.82	12.47	18.21	18.22	29.97	36.00
UNII-2C 802.11ac VHT80(BF)MCS0 5530Mhz 4TX	Pass	11.76	11.19	12.65	12.08	12.34	18.12	18.22	29.88	36.00
UNII-2C 802.11ac VHT80(BF)MCS0 5610Mhz 4TX	Pass	11.76	11.24	12.95	11.87	12.36	18.17	18.22	29.93	36.00
UNII-2C 802.11ac VHT80(BF)MCS0 5690Mhz 4TX	Pass	11.76	10.98	12.75	11.94	12.58	18.14	18.22	29.90	36.00
UNII-3 802.11ac VHT80(BF)MCS0 5690Mhz 4TX	Pass	11.76	-3.37	-1.45	-2.03	-1.75	3.93	24.24	15.69	36.00
UNII-3 802.11ac VHT80(BF)MCS0 5775Mhz 4TX	Pass	11.76	17.35	18.78	17.95	18.37	24.16	24.24	35.93	36.00

For non-beamforming mode

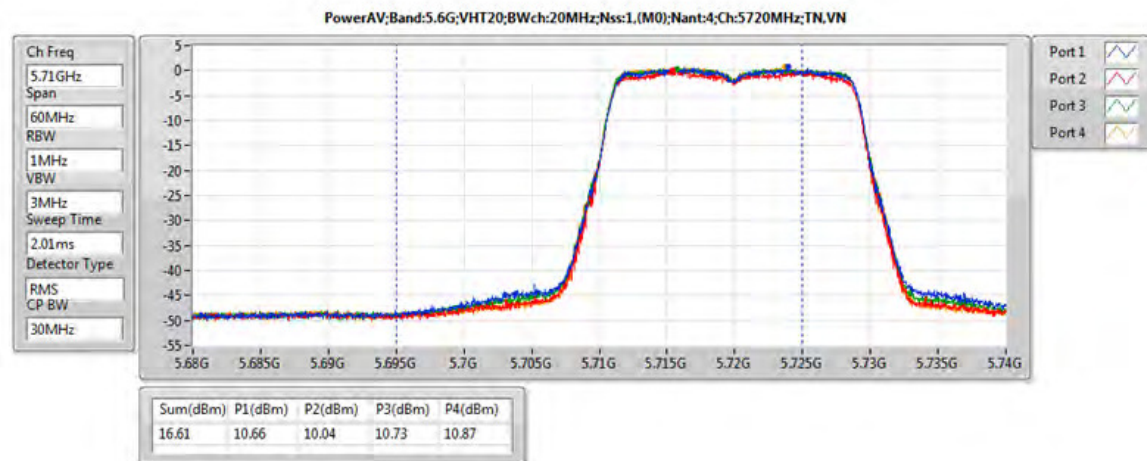
Conducted Output Power on Configuration IEEE 802.11a / UNII-2C 5720 MHz / 4TX



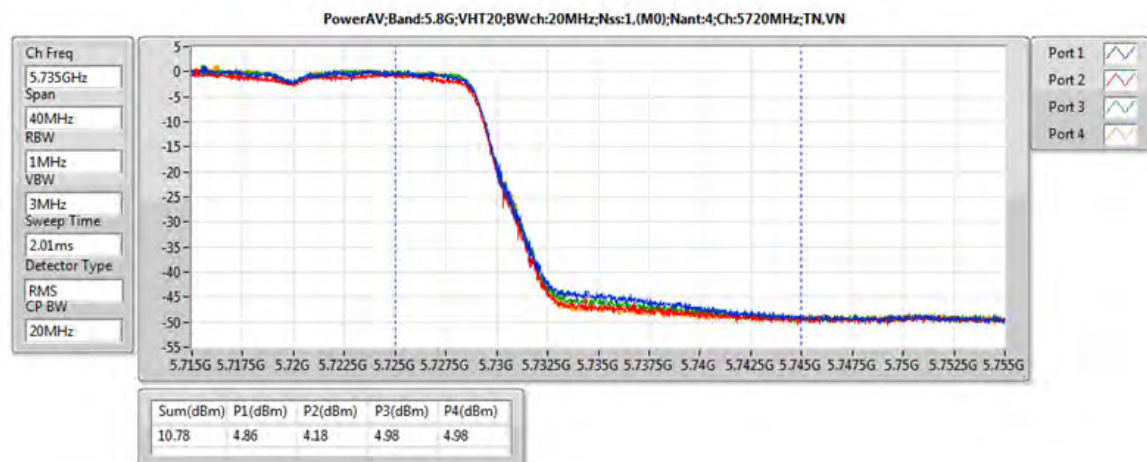
Conducted Output Power on Configuration IEEE 802.11a / UNII-3 5720 MHz / 4TX



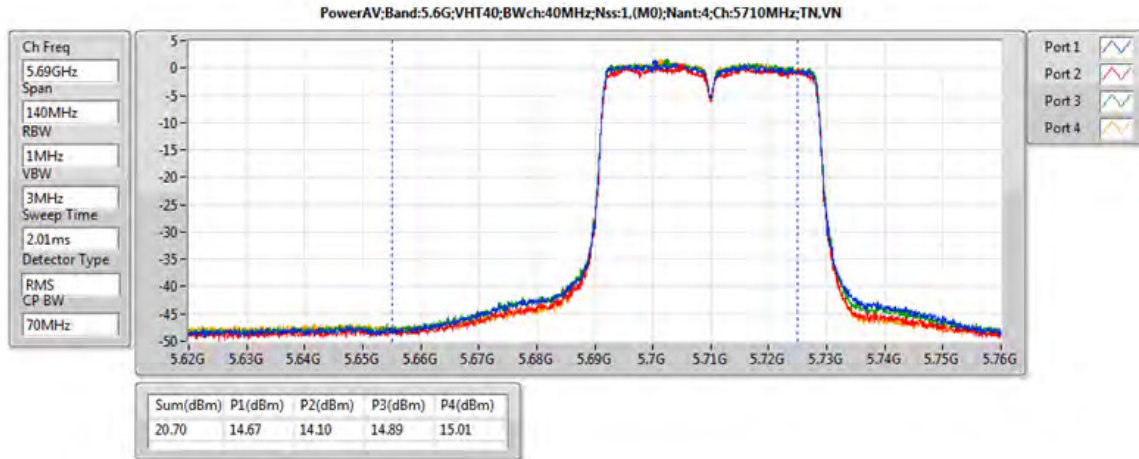
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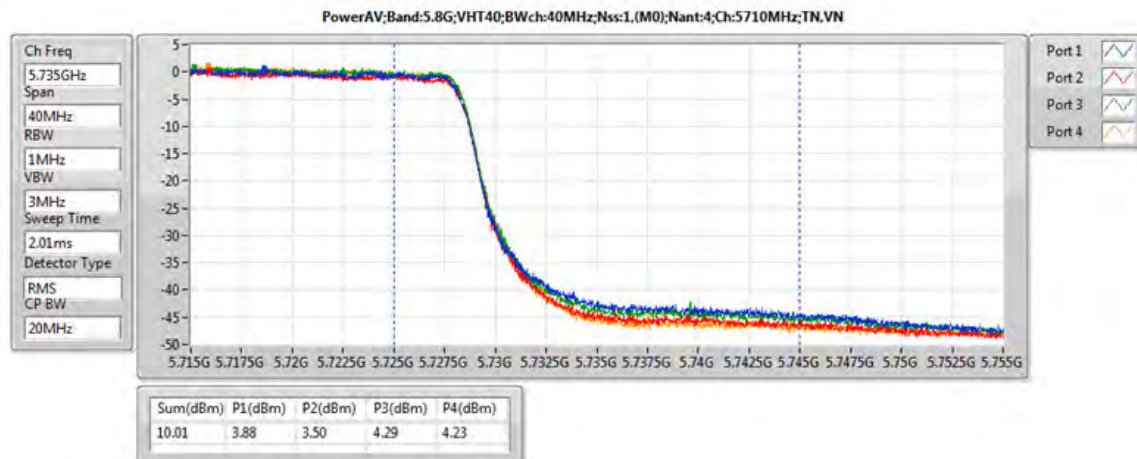
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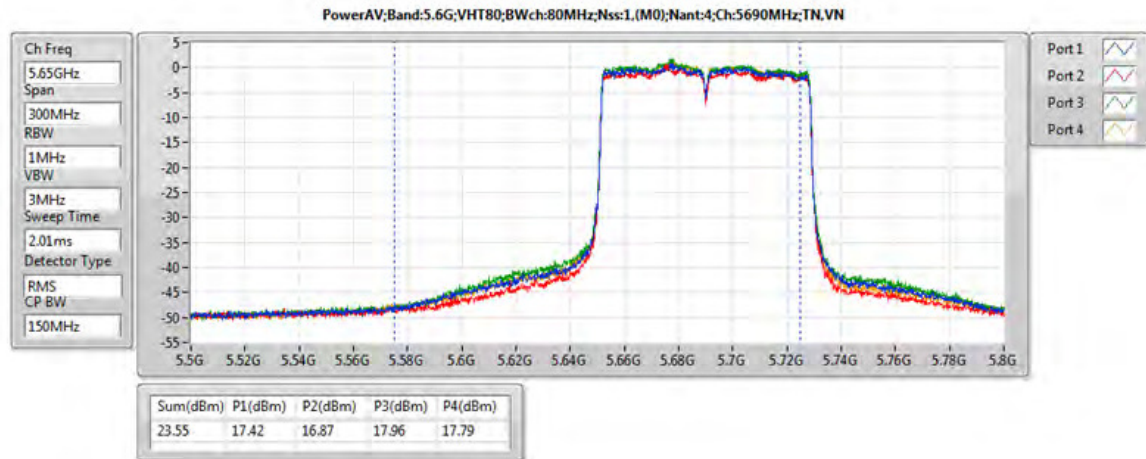
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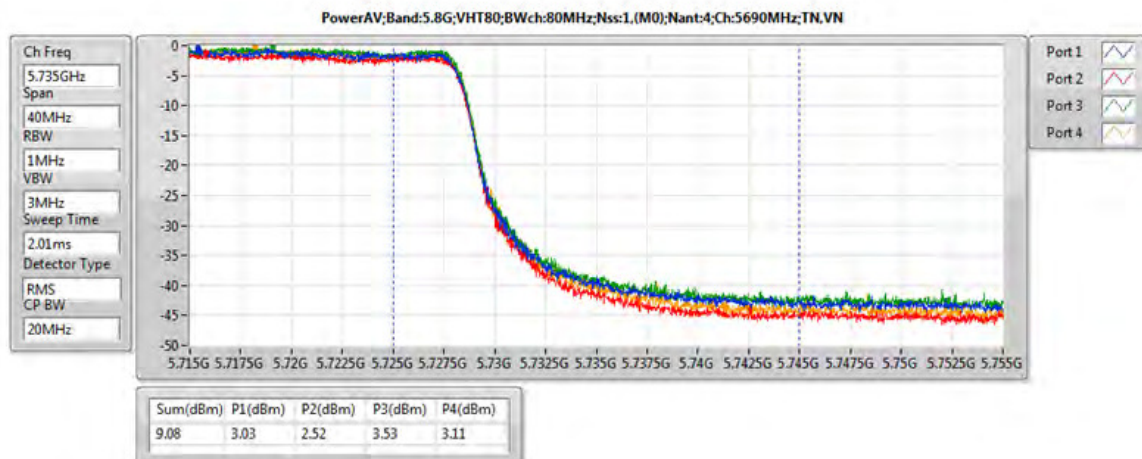
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Conducted Output Power on Configuration IEEE 802.11ac VHT80 / UNII-2C 5690 MHz / 4TX

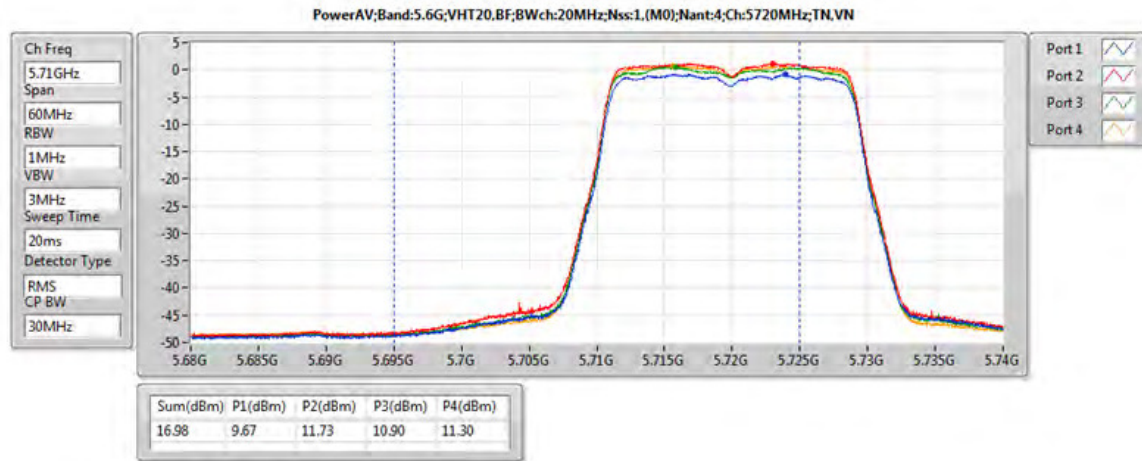


Conducted Output Power on Configuration IEEE 802.11ac VHT80 / UNII-3 5690 MHz / 4TX

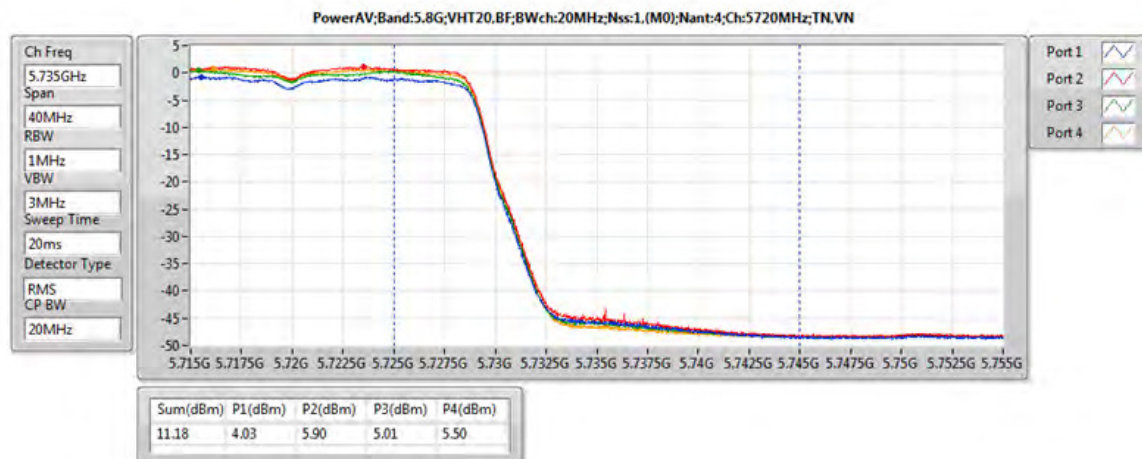


For beamforming mode

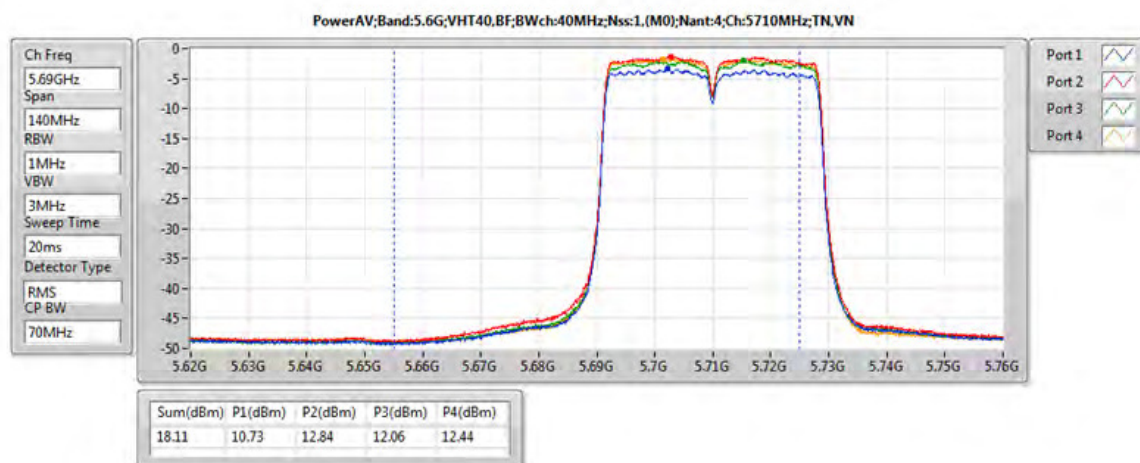
Conducted Output Power on Configuration IEEE 802.11ac VHT20(BF) / UNII-2C 5720 MHz / 4TX



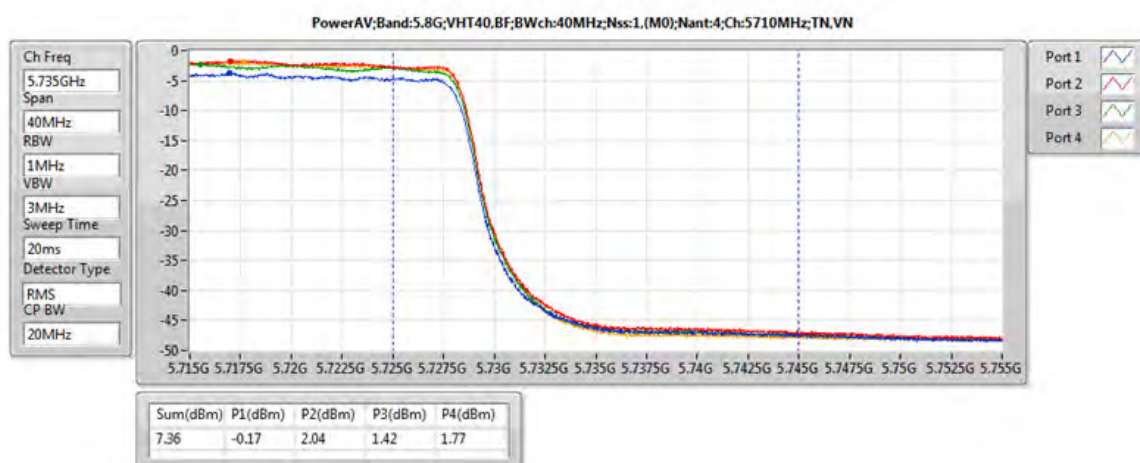
Conducted Output Power on Configuration IEEE 802.11ac VHT20(BF) / UNII-3 5720 MHz / 4TX



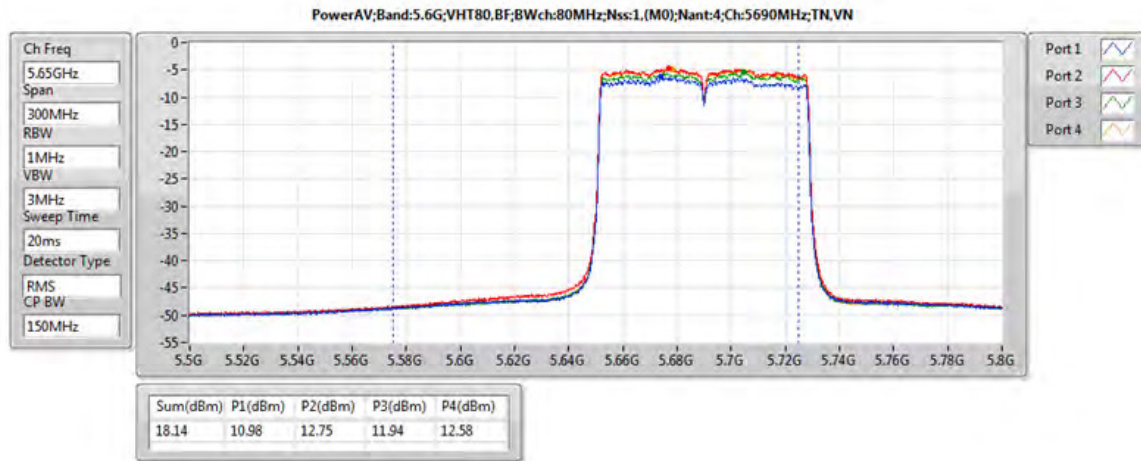
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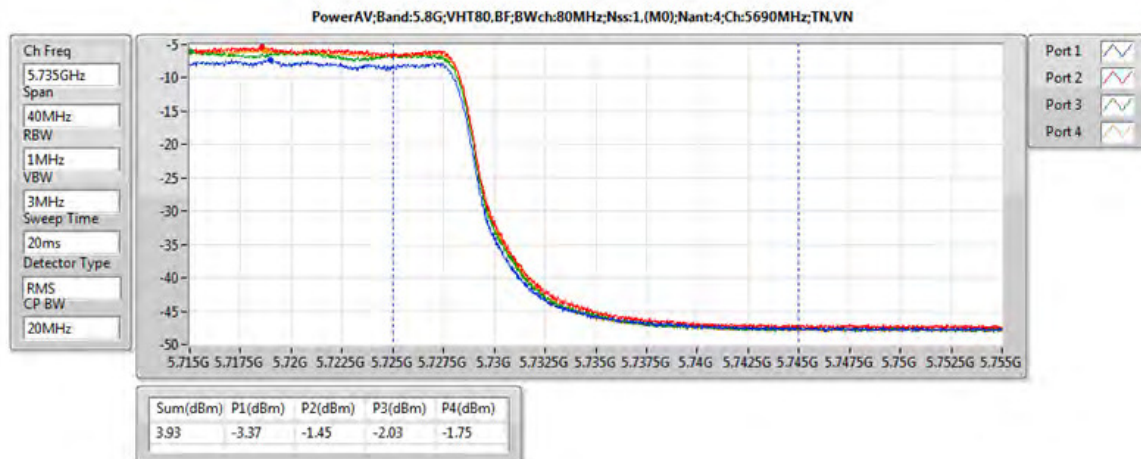
Conducted Output Power on Configuration IEEE 802.11ac VHT40(BF) / UNII-3 5710 MHz / 4TX



Conducted Output Power on Configuration IEEE 802.11ac VHT80(BF) / UNII-2C 5690 MHz / 4TX



Conducted Output Power on Configuration IEEE 802.11ac VHT80(BF) / UNII-3 5690 MHz / 4TX



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.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
☐	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$; $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
☐	For the 5.725-5.85 GHz band:
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

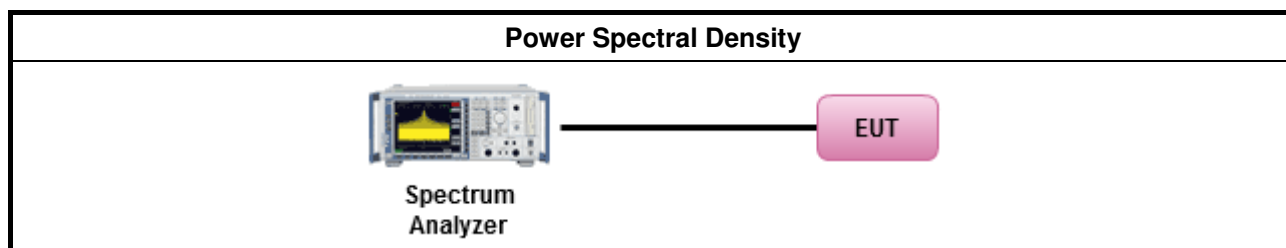
3.4.2 Measuring Instruments

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Mode	Result	Directional Gain (dBi)	Port 1 (dBm/ RBW)	Port 2 (dBm/ RBW)	Port 3 (dBm/ RBW)	Port 4 (dBm/ RBW)	Total PSD (dBm/ RBW)	PSD. Limit (dBm/ RBW)
UNII-1 802.11a 6Mbps 5180Mhz 4TX	Pass	11.76	5.22	4.37	5.65	5.60	11.13	11.24
UNII-1 802.11a 6Mbps 5200Mhz 4TX	Pass	11.76	5.19	4.31	5.78	5.83	11.18	11.24
UNII-1 802.11a 6Mbps 5240Mhz 4TX	Pass	11.76	5.00	4.35	5.71	5.54	11.10	11.24
UNII-2A 802.11a 6Mbps 5260Mhz 4TX	Pass	11.76	-0.96	-1.42	-0.48	-0.74	5.02	5.24
UNII-2A 802.11a 6Mbps 5300Mhz 4TX	Pass	11.76	-1.15	-1.65	-0.54	-0.70	4.91	5.24
UNII-2A 802.11a 6Mbps 5320Mhz 4TX	Pass	11.76	-0.97	-1.38	-0.32	-0.45	5.15	5.24
UNII-2C 802.11a 6Mbps 5500Mhz 4TX	Pass	11.76	-0.71	-1.41	-0.67	-0.70	5.08	5.24
UNII-2C 802.11a 6Mbps 5580Mhz 4TX	Pass	11.76	-0.26	-1.33	-0.57	-0.73	5.23	5.24
UNII-2C 802.11a 6Mbps 5700Mhz 4TX	Pass	11.76	-0.08	-1.44	-0.80	-0.63	5.16	5.24
UNII-3 802.11a 6Mbps 5720Mhz 4TX	Pass	11.76	-0.36	-1.46	-0.96	-0.94	4.99	5.24
UNII-3 802.11a 6Mbps 5720Mhz 4TX	Pass	11.76	-2.75	-3.53	-2.55	-2.51	2.96	24.24
UNII-3 802.11a 6Mbps 5745Mhz 4TX	Pass	11.76	8.97	7.93	8.88	8.38	14.39	24.24
UNII-3 802.11a 6Mbps 5785Mhz 4TX	Pass	11.76	8.72	7.74	8.78	8.49	14.29	24.24
UNII-3 802.11a 6Mbps 5825Mhz 4TX	Pass	11.76	8.67	7.62	8.50	8.37	14.09	24.24
UNII-1 802.11ac VHT20 MCS0 5180Mhz 4TX	Pass	11.76	5.19	4.54	5.55	5.87	11.22	11.24
UNII-1 802.11ac VHT20 MCS0 5200Mhz 4TX	Pass	11.76	5.00	4.60	5.60	5.67	11.16	11.24
UNII-1 802.11ac VHT20 MCS0 5240Mhz 4TX	Pass	11.76	4.93	4.47	5.56	5.65	11.08	11.24
UNII-2A 802.11ac VHT20 MCS0 5260Mhz 4TX	Pass	11.76	-1.16	-1.36	-0.64	-0.87	4.92	5.24
UNII-2A 802.11ac VHT20 MCS0 5300Mhz 4TX	Pass	11.76	-1.25	-1.27	-0.59	-0.76	4.94	5.24
UNII-2A 802.11ac VHT20 MCS0 5320Mhz 4TX	Pass	11.76	-1.32	-1.51	-0.42	-0.88	4.88	5.24
UNII-2C 802.11ac VHT20 MCS0 5500Mhz 4TX	Pass	11.76	-0.98	-1.66	-0.60	-1.01	4.81	5.24
UNII-2C 802.11ac VHT20 MCS0 5580Mhz 4TX	Pass	11.76	-0.67	-1.74	-0.67	-1.02	4.92	5.24
UNII-2C 802.11ac VHT20 MCS0 5700Mhz 4TX	Pass	11.76	-0.82	-1.39	-0.87	-0.73	4.99	5.24
UNII-2C 802.11ac VHT20 MCS0 5720Mhz 4TX	Pass	11.76	-0.96	-1.65	-1.17	-1.00	4.74	5.24
UNII-3 802.11ac VHT20 MCS0 5720Mhz 4TX	Pass	11.76	-2.71	-3.26	-3.05	-2.94	2.97	24.24
UNII-3 802.11ac VHT20 MCS0 5745Mhz 4TX	Pass	11.76	8.61	7.89	8.63	8.21	14.26	24.24
UNII-3 802.11ac VHT20 MCS0 5785Mhz 4TX	Pass	11.76	8.37	7.56	8.61	8.16	14.05	24.24



Mode	Result	Directional Gain (dBi)	Port 1 (dBm/ RBW)	Port 2 (dBm/ RBW)	Port 3 (dBm/ RBW)	Port 4 (dBm/ RBW)	Total PSD (dBm/ RBW)	PSD. Limit (dBm/ RBW)
UNII-3 802.11ac VHT20 MCS0 5825Mhz 4TX	Pass	11.76	8.26	7.41	8.23	8.34	13.98	24.24
UNII-1 802.11ac VHT40 MCS0 5190Mhz 4TX	Pass	11.76	-1.03	-1.60	-0.78	-0.47	4.98	11.24
UNII-1 802.11ac VHT40 MCS0 5230Mhz 4TX	Pass	11.76	5.12	4.74	5.65	5.46	11.19	11.24
UNII-2A 802.11ac VHT40 MCS0 5270Mhz 4TX	Pass	11.76	-1.13	-1.56	-0.54	-0.70	4.96	5.24
UNII-2A 802.11ac VHT40 MCS0 5310Mhz 4TX	Pass	11.76	-0.91	-1.39	-0.50	-0.60	5.06	5.24
UNII-2C 802.11ac VHT40 MCS0 5510Mhz 4TX	Pass	11.76	-0.59	-1.50	-0.51	-0.66	5.07	5.24
UNII-2C 802.11ac VHT40 MCS0 5550Mhz 4TX	Pass	11.76	-0.71	-1.52	-0.29	-0.50	5.20	5.24
UNII-2C 802.11ac VHT40 MCS0 5670Mhz 4TX	Pass	11.76	-0.89	-1.38	-0.62	-0.60	5.00	5.24
UNII-2C 802.11ac VHT40 MCS0 5710Mhz 4TX	Pass	11.76	-0.62	-1.40	-0.68	-0.50	5.08	5.24
UNII-3 802.11ac VHT40 MCS0 5710Mhz 4TX	Pass	11.76	-3.10	-3.55	-3.13	-3.18	2.66	24.24
UNII-3 802.11ac VHT40 MCS0 5755Mhz 4TX	Pass	11.76	5.80	5.02	5.85	5.63	11.50	24.24
UNII-3 802.11ac VHT40 MCS0 5795Mhz 4TX	Pass	11.76	5.91	5.05	5.89	5.79	11.47	24.24
UNII-1 802.11ac VHT80 MCS0 5210Mhz 4TX	Pass	11.76	-2.10	-2.44	-1.51	-1.70	4.00	11.24
UNII-2A 802.11ac VHT80 MCS0 5290Mhz 4TX	Pass	11.76	-4.63	-5.24	-4.17	-4.48	1.31	5.24
UNII-2C 802.11ac VHT80 MCS0 5530Mhz 4TX	Pass	11.76	-4.50	-5.20	-4.28	-4.32	1.32	5.24
UNII-2C 802.11ac VHT80 MCS0 5610Mhz 4TX	Pass	11.76	-1.84	-2.73	-1.48	-1.85	3.96	5.24
UNII-2C 802.11ac VHT80 MCS0 5690Mhz 4TX	Pass	11.76	-1.21	-1.88	-0.87	-1.08	4.65	5.24
UNII-3 802.11ac VHT80 MCS0 5690Mhz 4TX	Pass	11.76	-3.84	-4.83	-3.69	-4.13	1.78	24.24
UNII-3 802.11ac VHT80 MCS0 5775Mhz 4TX	Pass	11.76	1.81	1.09	1.89	1.63	7.52	24.24
UNII-1 802.11ac VHT20(BF)MCS0 5180Mhz 4TX	Pass	11.76	4.26	5.48	4.43	5.47	10.87	11.24
UNII-1 802.11ac VHT20(BF)MCS0 5200Mhz 4TX	Pass	11.76	4.15	5.47	4.24	5.29	10.73	11.24
UNII-1 802.11ac VHT20(BF)MCS0 5240Mhz 4TX	Pass	11.76	3.70	5.32	4.44	5.42	10.69	11.24



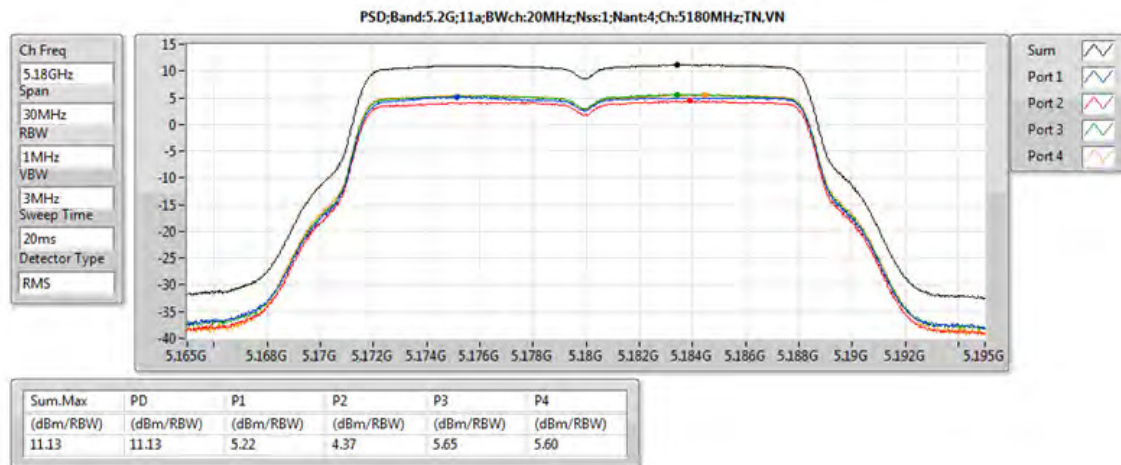
Mode	Result	Directional Gain (dBi)	Port 1 (dBm/ RBW)	Port 2 (dBm/ RBW)	Port 3 (dBm/ RBW)	Port 4 (dBm/ RBW)	Total PSD (dBm/ RBW)	PSD. Limit (dBm/ RBW)
UNII-2A 802.11ac VHT20(BF)MCS0 5260Mhz 4TX	Pass	11.76	-2.61	-0.71	-1.35	-1.00	4.54	5.24
UNII-2A 802.11ac VHT20(BF)MCS0 5300Mhz 4TX	Pass	11.76	-2.14	-0.71	-1.44	-1.12	4.57	5.24
UNII-2A 802.11ac VHT20(BF)MCS0 5320Mhz 4TX	Pass	11.76	-2.33	-0.65	-1.68	-1.43	4.42	5.24
UNII-2C 802.11ac VHT20(BF)MCS0 5500Mhz 4TX	Pass	11.76	-1.93	-0.49	-1.38	-1.15	4.60	5.24
UNII-2C 802.11ac VHT20(BF)MCS0 5580Mhz 4TX	Pass	11.76	-2.07	-0.61	-1.68	-0.99	4.58	5.24
UNII-2C 802.11ac VHT20(BF)MCS0 5700Mhz 4TX	Pass	11.76	-2.23	-0.56	-1.19	-0.82	4.76	5.24
UNII-2C 802.11ac VHT20(BF)MCS0 5720Mhz 4TX	Pass	11.76	-1.88	-0.26	-0.91	-0.64	5.02	5.24
UNII-3 802.11ac VHT20(BF)MCS0 5720Mhz 4TX	Pass	11.76	-3.70	-2.20	-2.53	-2.51	3.18	24.24
UNII-3 802.11ac VHT20(BF)MCS0 5745Mhz 4TX	Pass	11.76	1.99	3.73	3.04	3.42	8.94	24.24
UNII-3 802.11ac VHT20(BF)MCS0 5785Mhz 4TX	Pass	11.76	2.52	4.31	3.58	3.80	9.46	24.24
UNII-3 802.11ac VHT20(BF)MCS0 5825Mhz 4TX	Pass	11.76	1.93	3.83	2.84	3.28	8.93	24.24
UNII-1 802.11ac VHT40(BF)MCS0 5190Mhz 4TX	Pass	11.76	-0.37	1.21	-0.24	0.83	6.29	11.24
UNII-1 802.11ac VHT40(BF)MCS0 5230Mhz 4TX	Pass	11.76	0.81	2.47	1.35	2.20	7.65	11.24
UNII-2A 802.11ac VHT40(BF)MCS0 5270Mhz 4TX	Pass	11.76	-4.99	-3.45	-4.49	-4.06	1.72	5.24
UNII-2A 802.11ac VHT40(BF)MCS0 5310Mhz 4TX	Pass	11.76	-5.21	-3.66	-4.73	-4.10	1.50	5.24
UNII-2C 802.11ac VHT40(BF)MCS0 5510Mhz 4TX	Pass	11.76	-5.51	-3.67	-4.75	-4.27	1.40	5.24
UNII-2C 802.11ac VHT40(BF)MCS0 5550Mhz 4TX	Pass	11.76	-5.75	-3.72	-4.78	-4.16	1.36	5.24
UNII-2C 802.11ac VHT40(BF)MCS0 5670Mhz 4TX	Pass	11.76	-5.81	-3.94	-4.71	-4.22	1.25	5.24
UNII-2C 802.11ac VHT40(BF)MCS0 5710Mhz 4TX	Pass	11.76	-4.63	-2.74	-3.40	-3.14	2.40	5.24
UNII-3 802.11ac VHT40(BF)MCS0 5710Mhz 4TX	Pass	11.76	-7.30	-5.34	-5.64	-5.74	-0.03	24.24
UNII-3 802.11ac VHT40(BF)MCS0 5755Mhz 4TX	Pass	11.76	-0.68	1.08	0.26	0.59	6.11	24.24
UNII-3 802.11ac VHT40(BF)MCS0 5795Mhz 4TX	Pass	11.76	-0.50	1.10	0.02	0.63	6.17	24.24



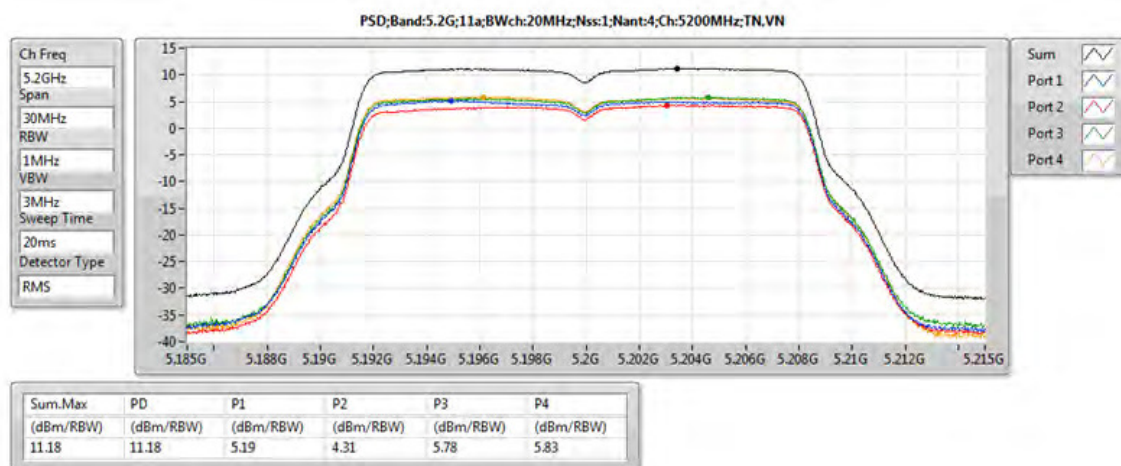
Mode	Result	Directional Gain (dBi)	Port 1 (dBm/ RBW)	Port 2 (dBm/ RBW)	Port 3 (dBm/ RBW)	Port 4 (dBm/ RBW)	Total PSD (dBm/ RBW)	PSD. Limit (dBm/ RBW)
UNII-1 802.11ac VHT80(BF)MCS0 5210Mhz 4TX	Pass	11.76	-2.38	-0.65	-1.75	-1.05	4.45	11.24
UNII-2A 802.11ac VHT80(BF)MCS0 5290Mhz 4TX	Pass	11.76	-8.06	-6.61	-7.77	-7.25	-1.45	5.24
UNII-2C 802.11ac VHT80(BF)MCS0 5530Mhz 4TX	Pass	11.76	-8.76	-6.58	-7.74	-7.35	-1.64	5.24
UNII-2C 802.11ac VHT80(BF)MCS0 5610Mhz 4TX	Pass	11.76	-7.94	-6.47	-7.77	-7.18	-1.41	5.24
UNII-2C 802.11ac VHT80(BF)MCS0 5690Mhz 4TX	Pass	11.76	-7.63	-6.15	-6.87	-6.38	-0.86	5.24
UNII-3 802.11ac VHT80(BF)MCS0 5690Mhz 4TX	Pass	11.76	-10.40	-8.71	-9.42	-8.89	-3.44	24.24
UNII-3 802.11ac VHT80(BF)MCS0 5775Mhz 4TX	Pass	11.76	-3.46	-1.99	-2.87	-2.19	3.24	24.24

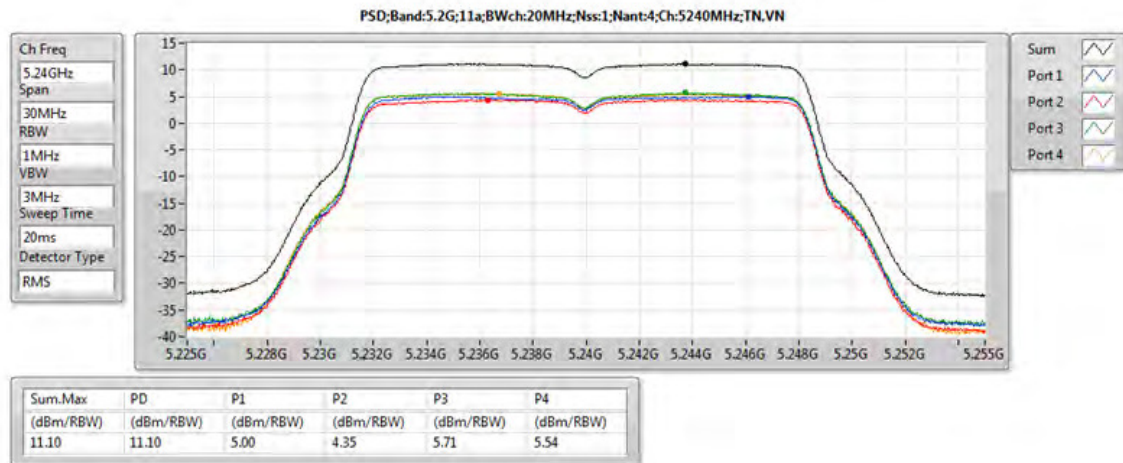
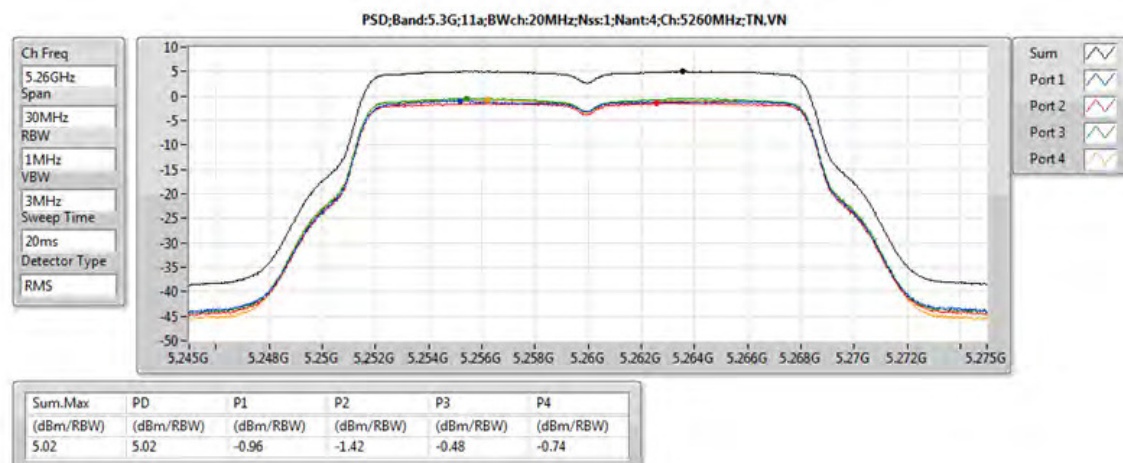
For non-beamforming mode

Power Spectral Density on Configuration IEEE 802.11a / UNII-1 5180 MHz / 4TX

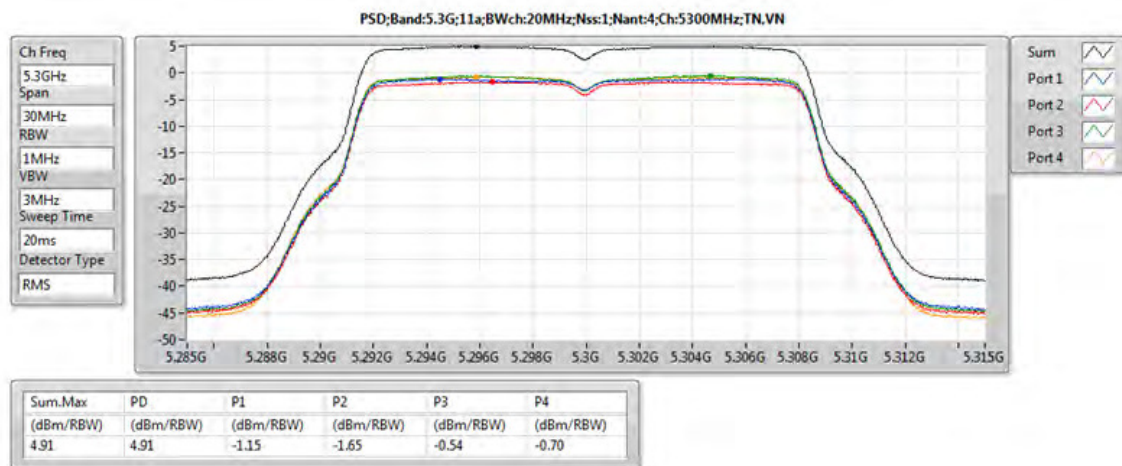


Power Spectral Density on Configuration IEEE 802.11a / UNII-1 5200 MHz / 4TX

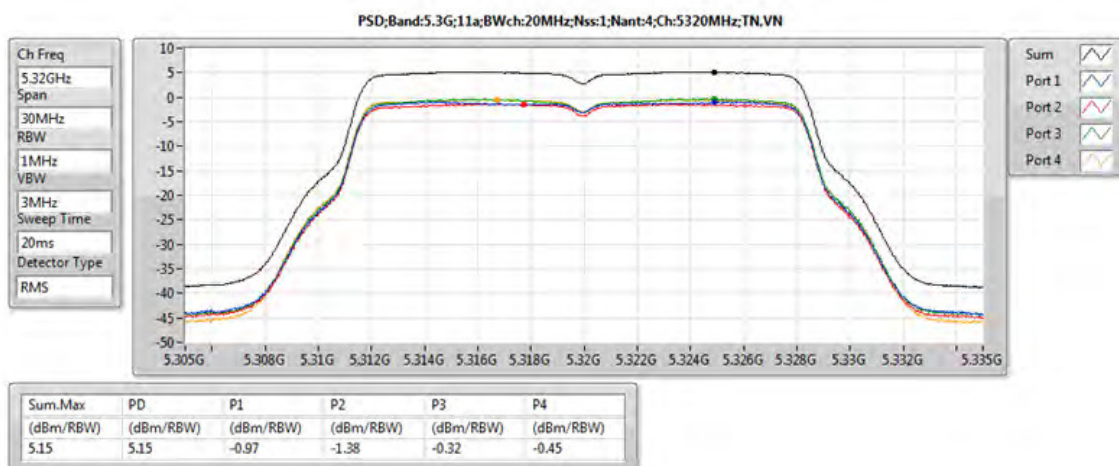


Power Spectral Density on Configuration IEEE 802.11a / UNII-1 5240 MHz / 4TX

Power Spectral Density on Configuration IEEE 802.11a / UNII-2A 5260 MHz / 4TX


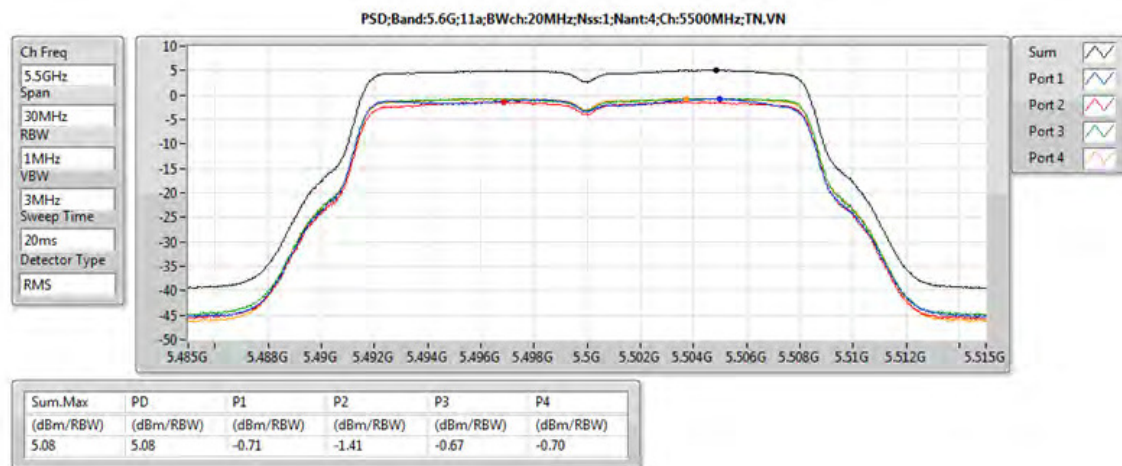
Power Spectral Density on Configuration IEEE 802.11a / UNII-2A 5300 MHz / 4TX



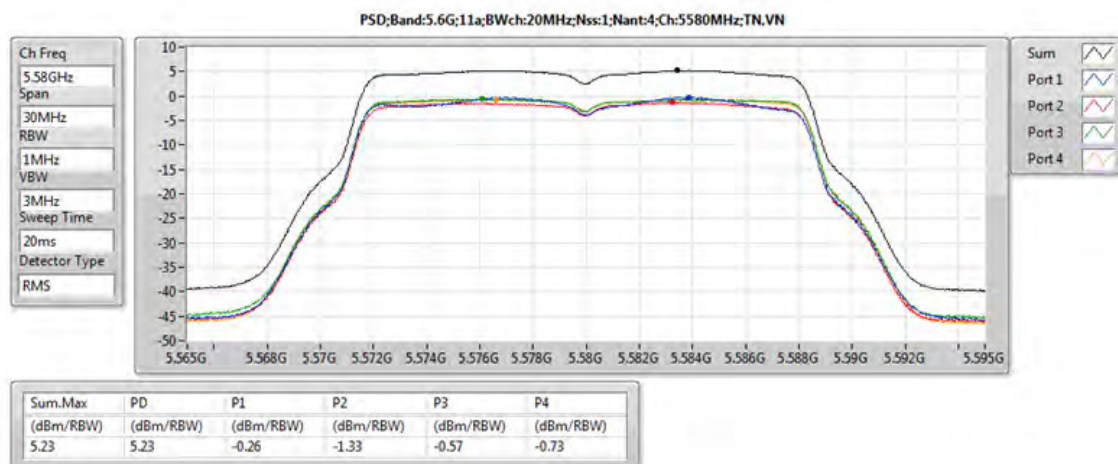
Power Spectral Density on Configuration IEEE 802.11a / UNII-2A 5320 MHz / 4TX

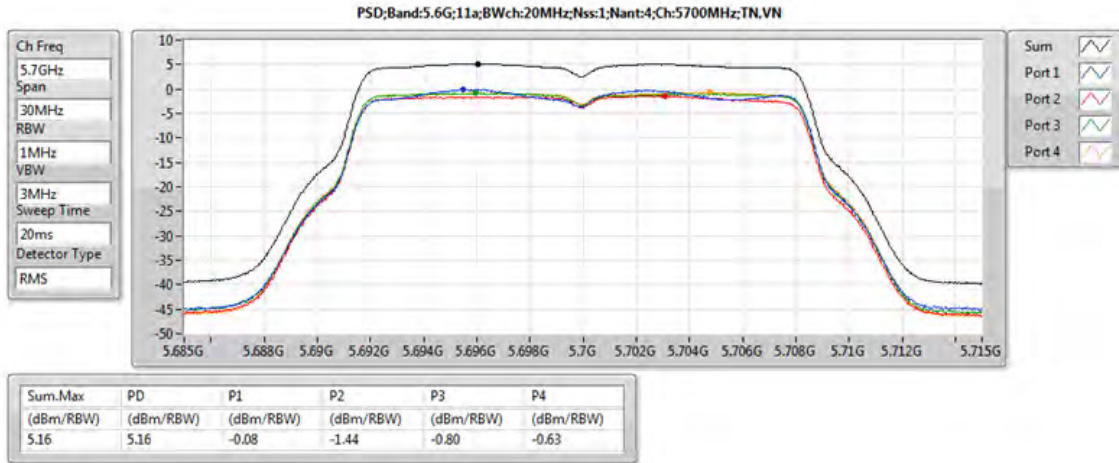
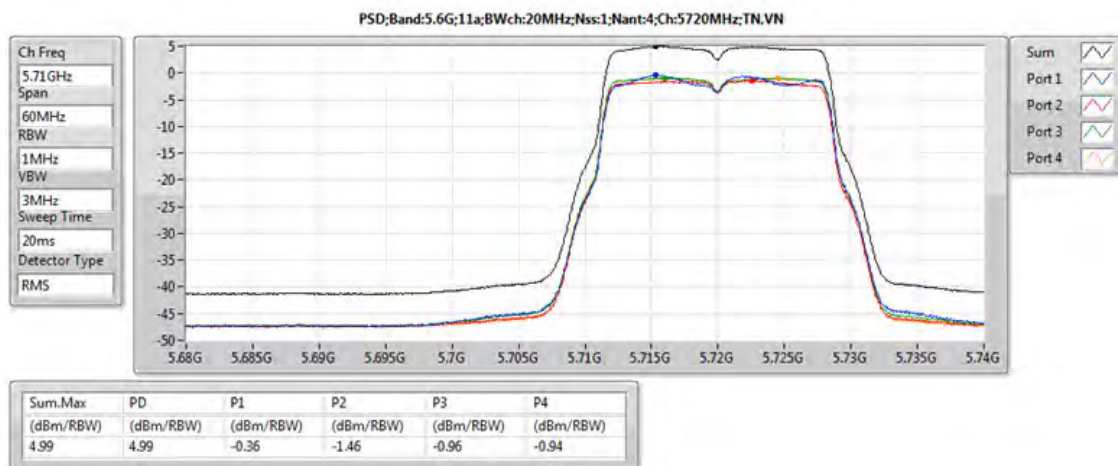


Power Spectral Density on Configuration IEEE 802.11a / UNII-2C 5500 MHz / 4TX

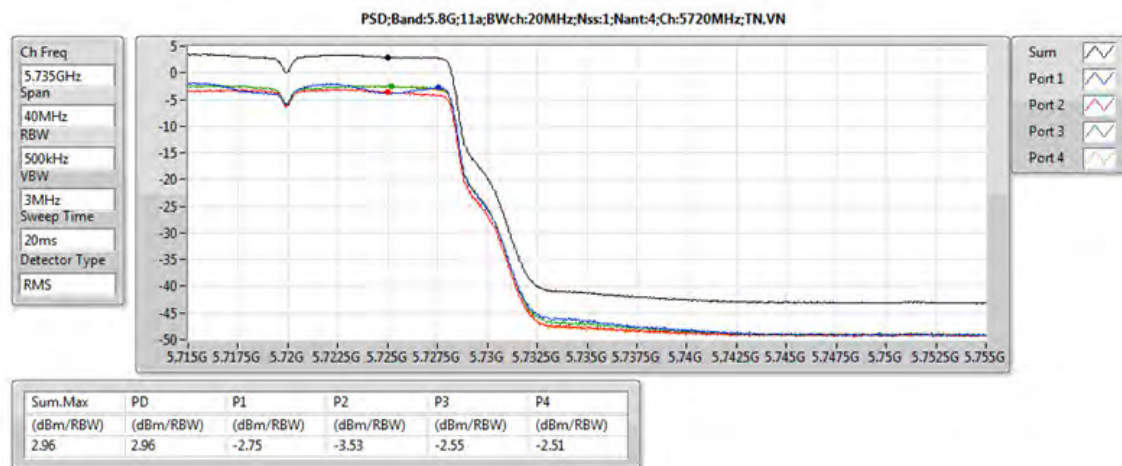


Power Spectral Density on Configuration IEEE 802.11a / UNII-2C 5580 MHz / 4TX

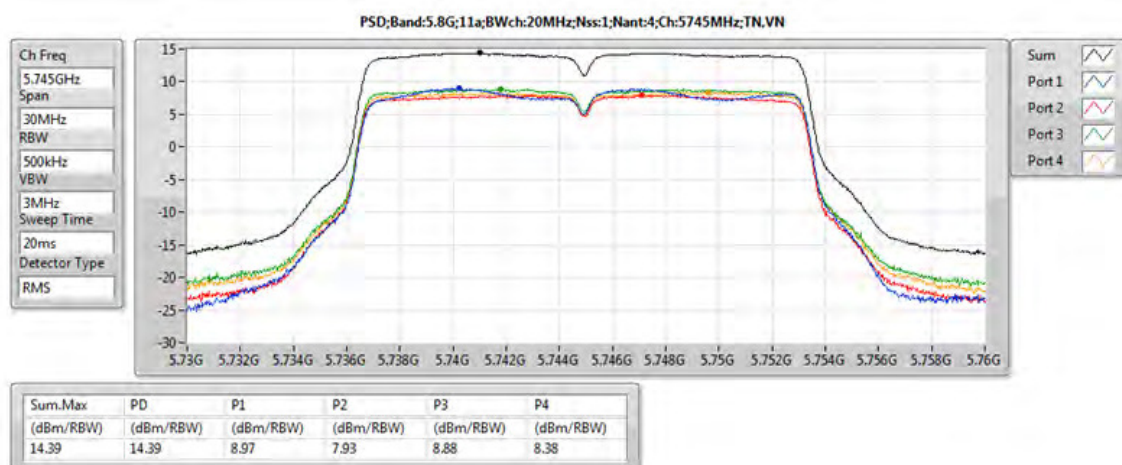


Power Spectral Density on Configuration IEEE 802.11a / UNII-2C 5700 MHz / 4TX

Power Spectral Density on Configuration IEEE 802.11a / UNII-2C 5720 MHz / 4TX


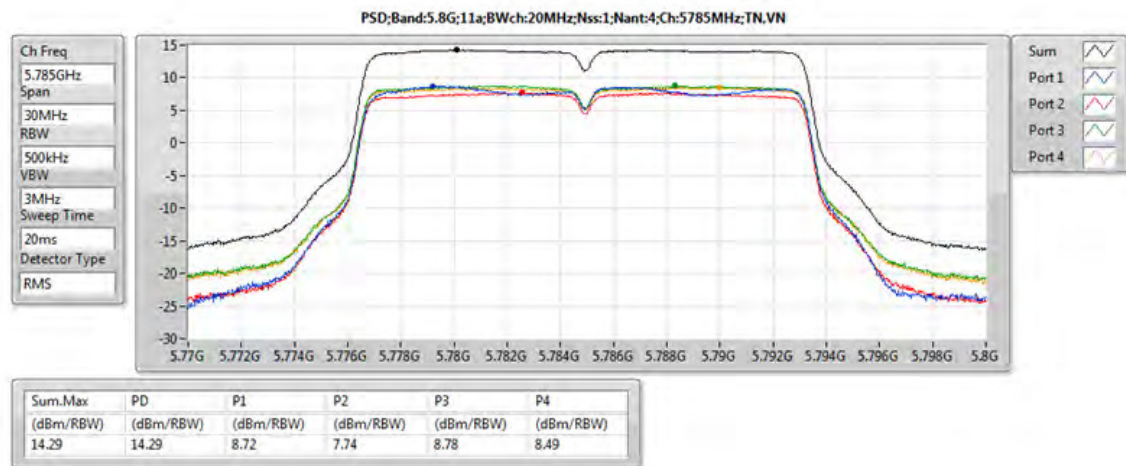
Power Spectral Density on Configuration IEEE 802.11a / UNII-3 5720 MHz / 4TX



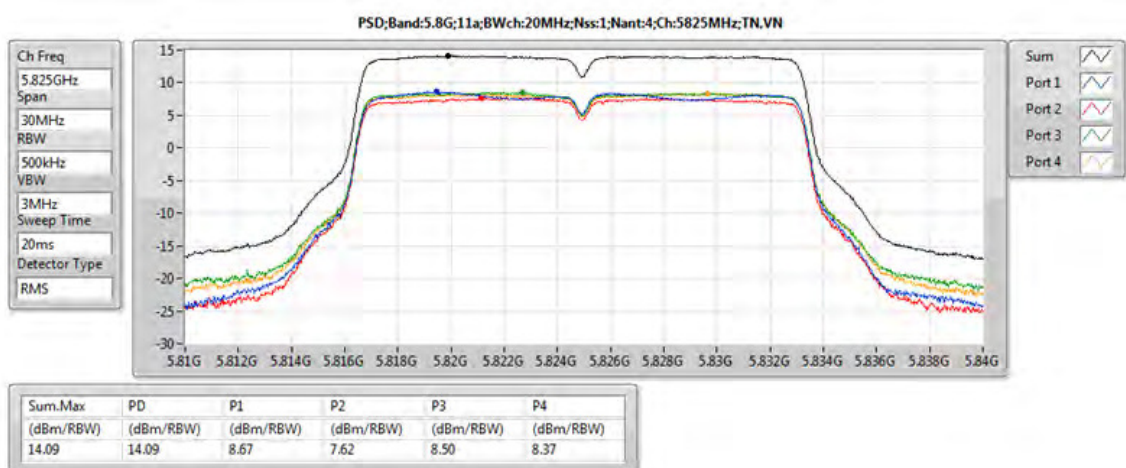
Power Spectral Density on Configuration IEEE 802.11a / UNII-3 5745 MHz / 4TX



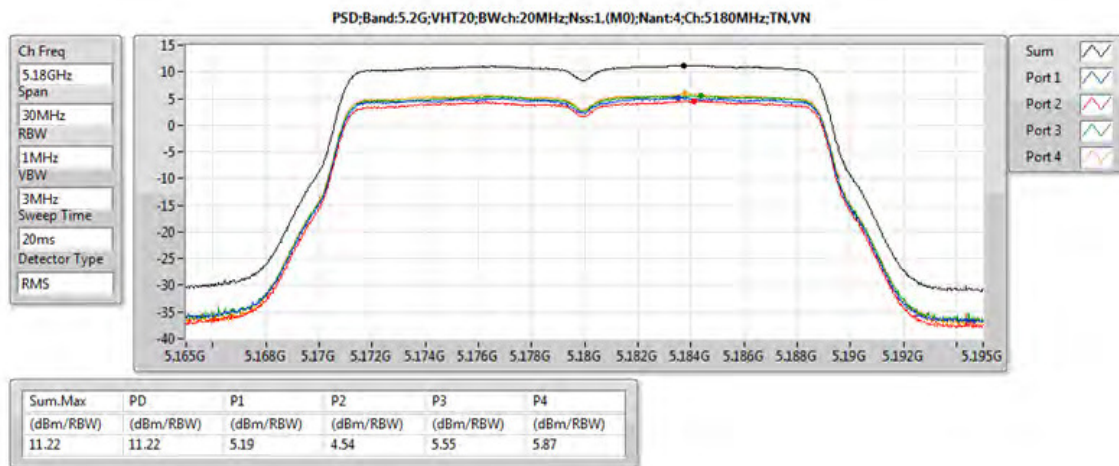
Power Spectral Density on Configuration IEEE 802.11a / UNII-3 5785 MHz / 4TX



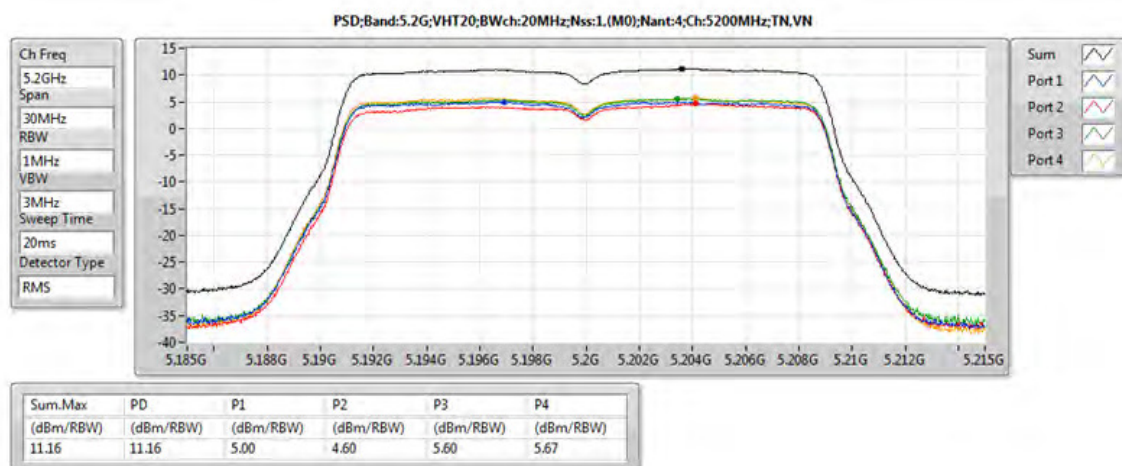
Power Spectral Density on Configuration IEEE 802.11a / UNII-3 5825 MHz / 4TX



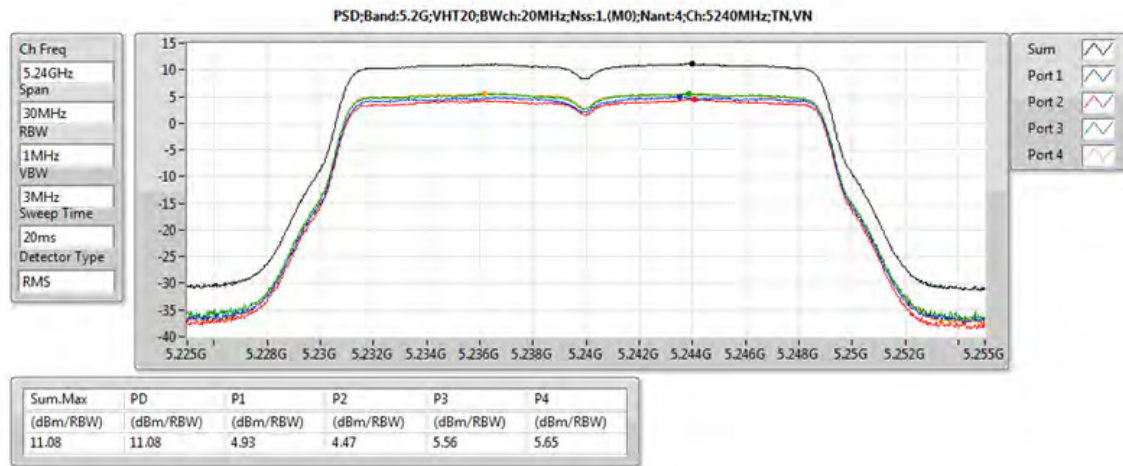
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-1 5180MHz / 4TX



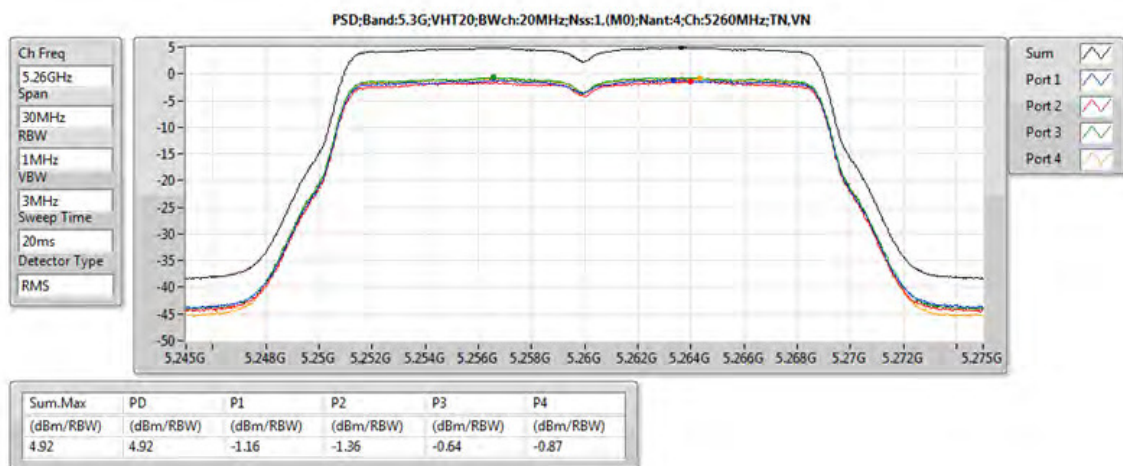
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-1 5200MHz / 4TX

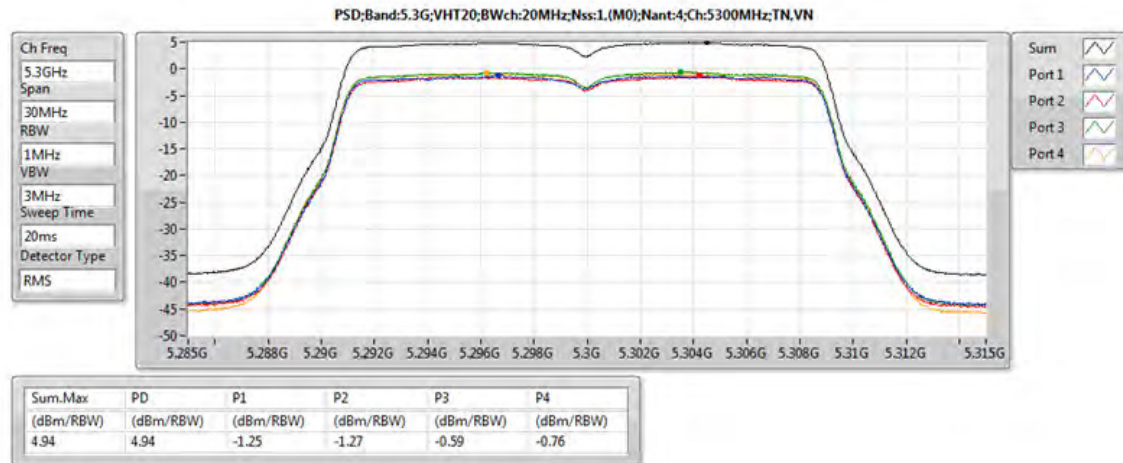
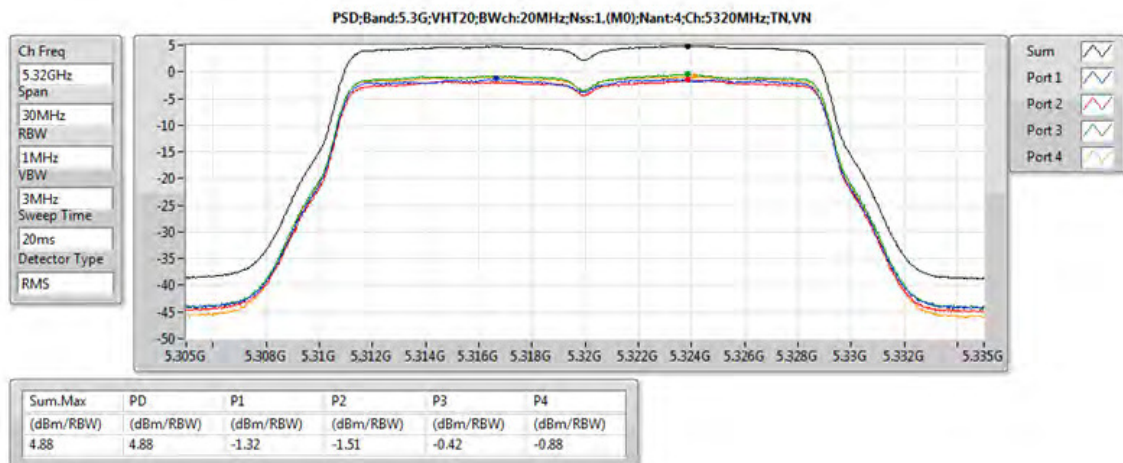


Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-1 5240MHz / 4TX

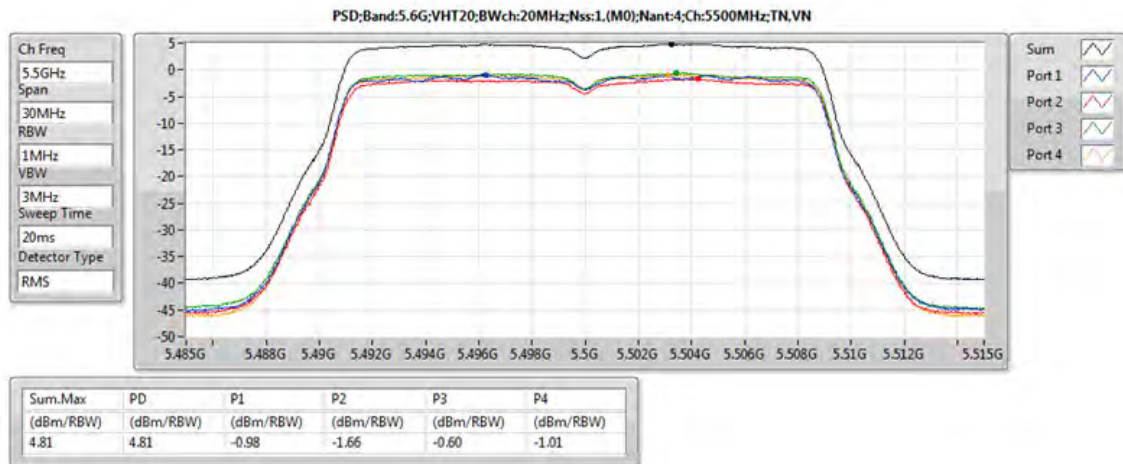


Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-2A 5260MHz / 4TX

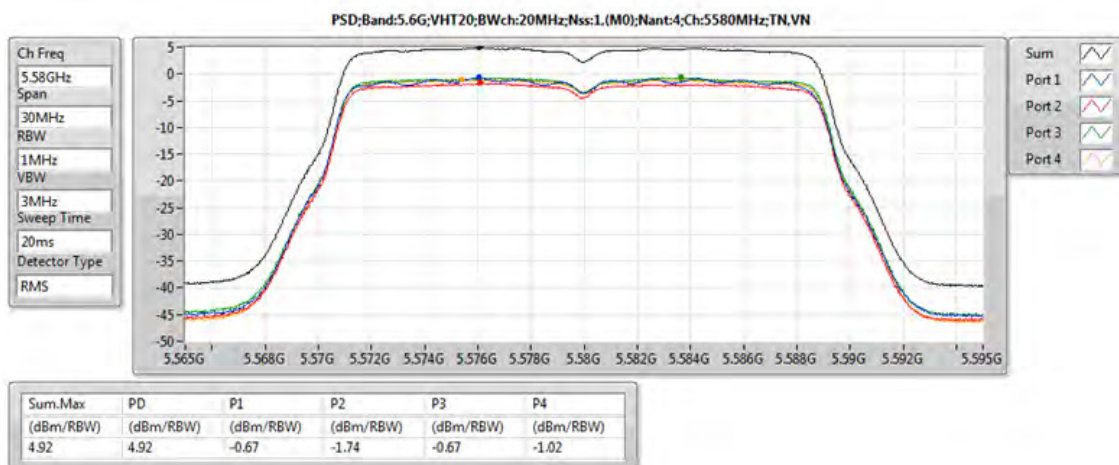


Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-2A 5300MHz / 4TX

Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-2A 5320MHz / 4TX


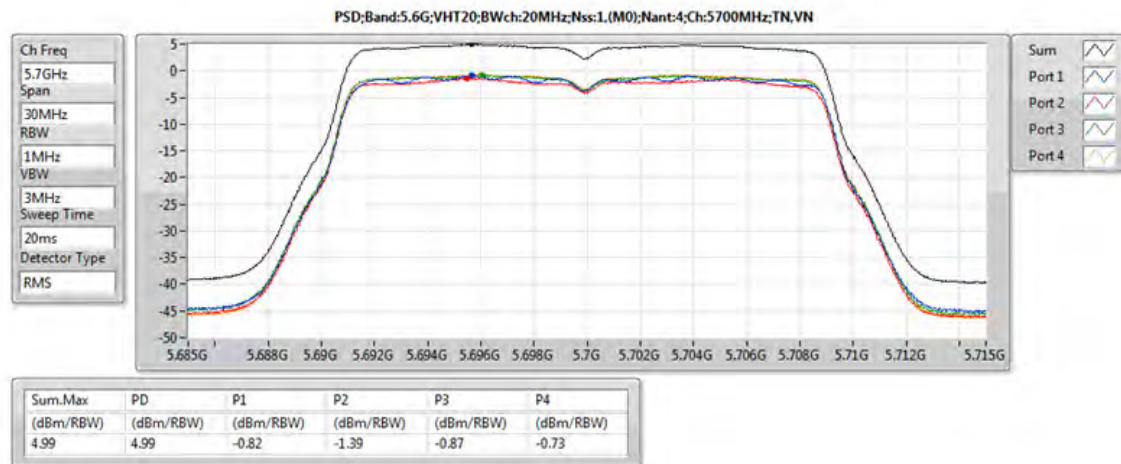
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-2C 5500MHz / 4TX



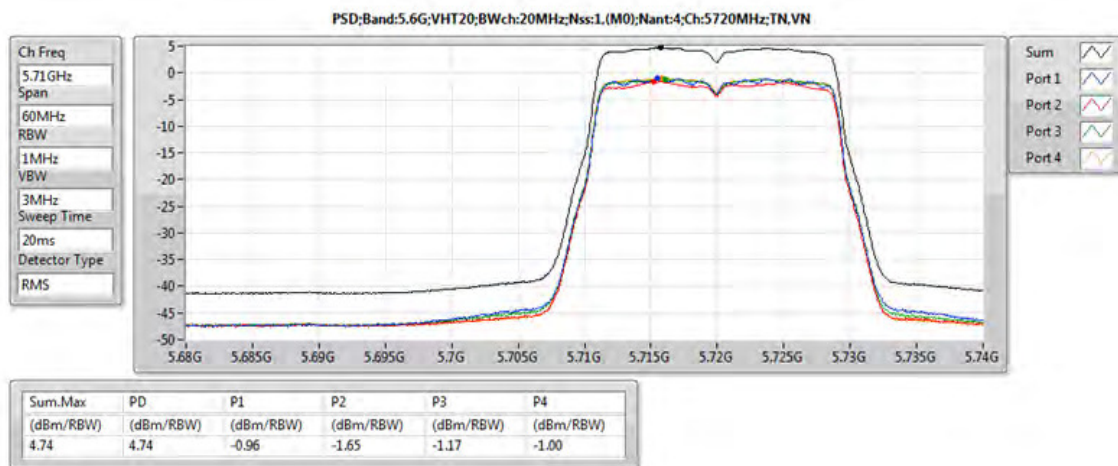
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-2C 5580MHz / 4TX



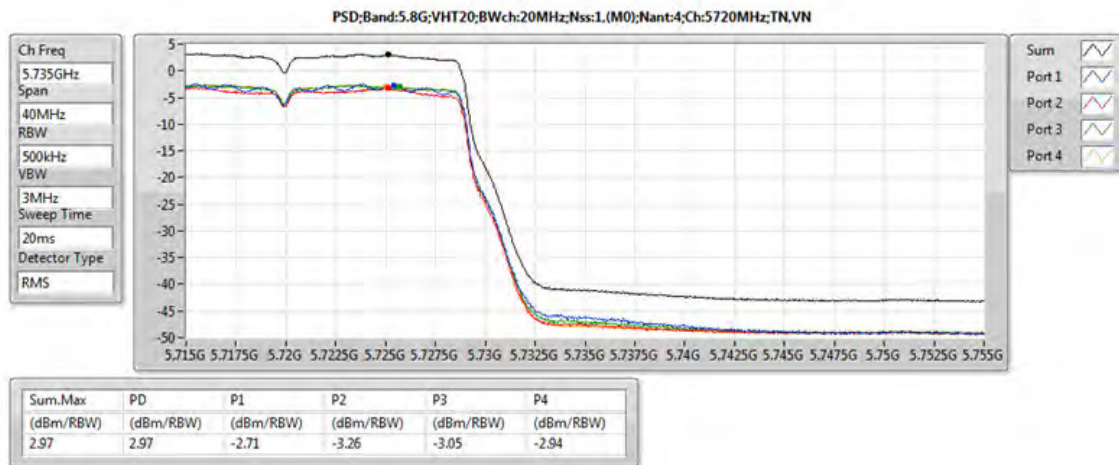
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-2C 5700MHz / 4TX



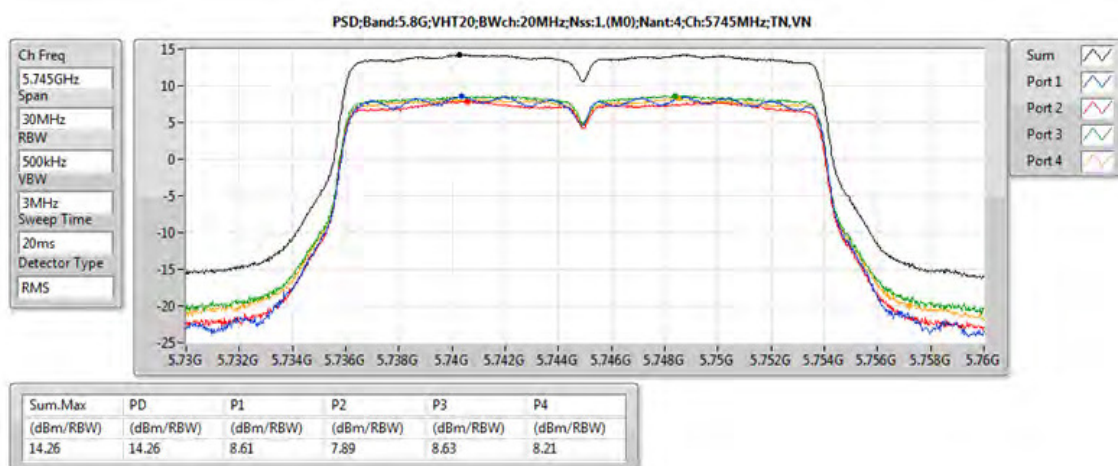
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-2C 5720MHz / 4TX



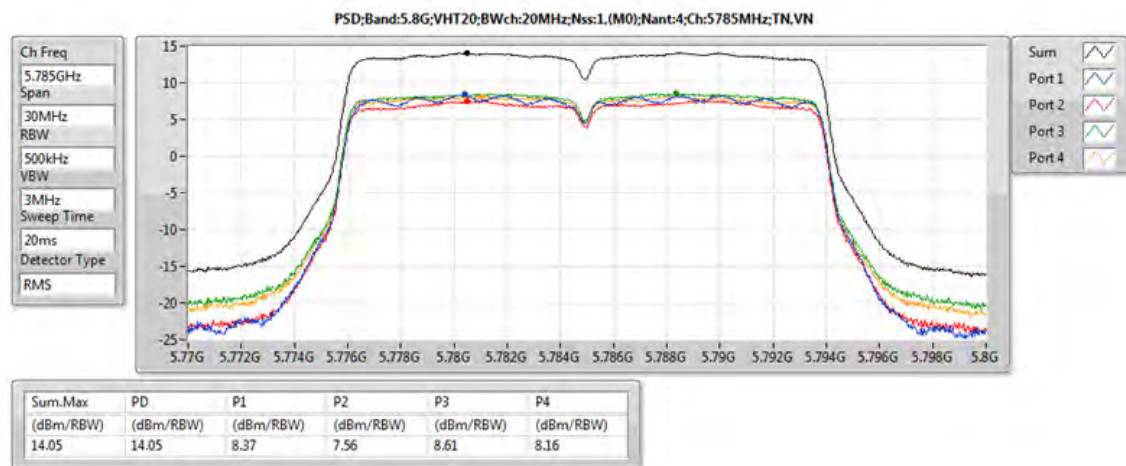
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-3 5720MHz / 4TX



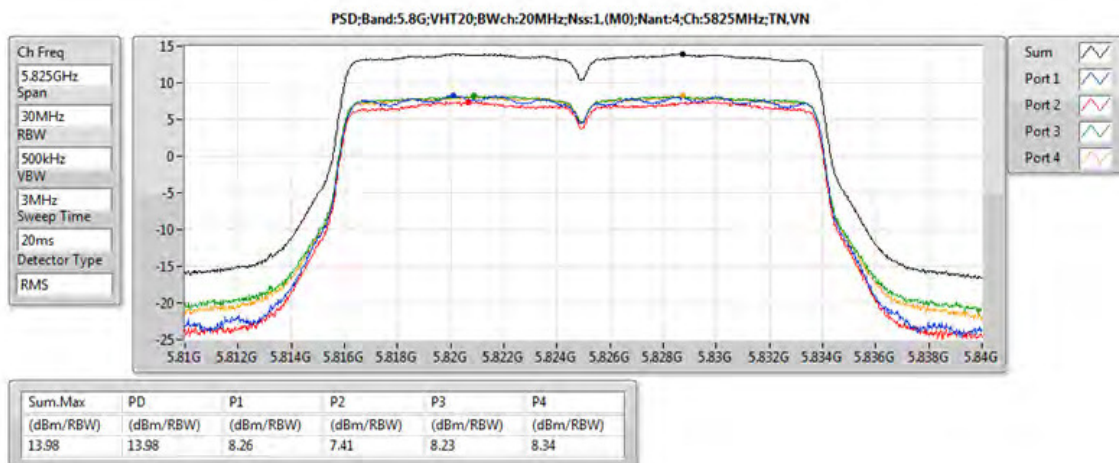
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-3 5745MHz / 4TX



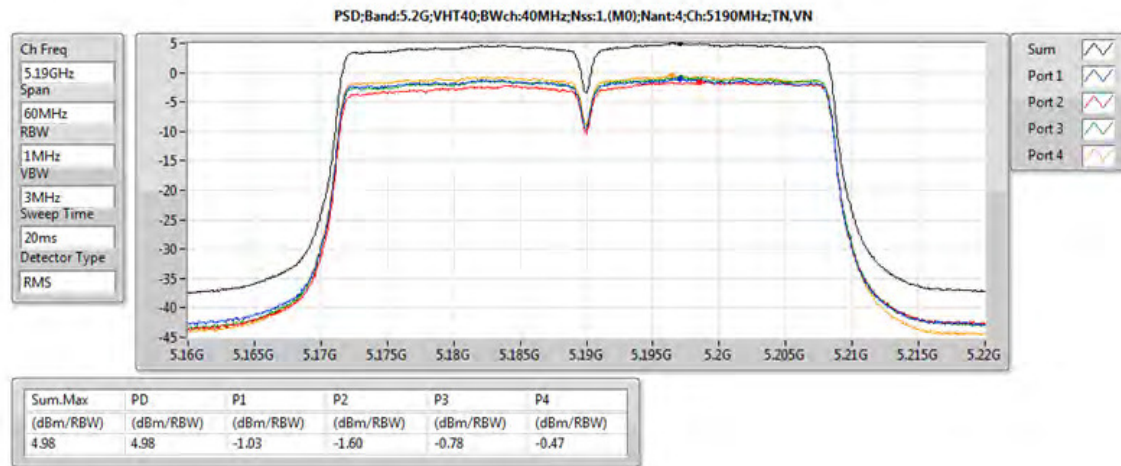
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-3 5785MHz / 4TX



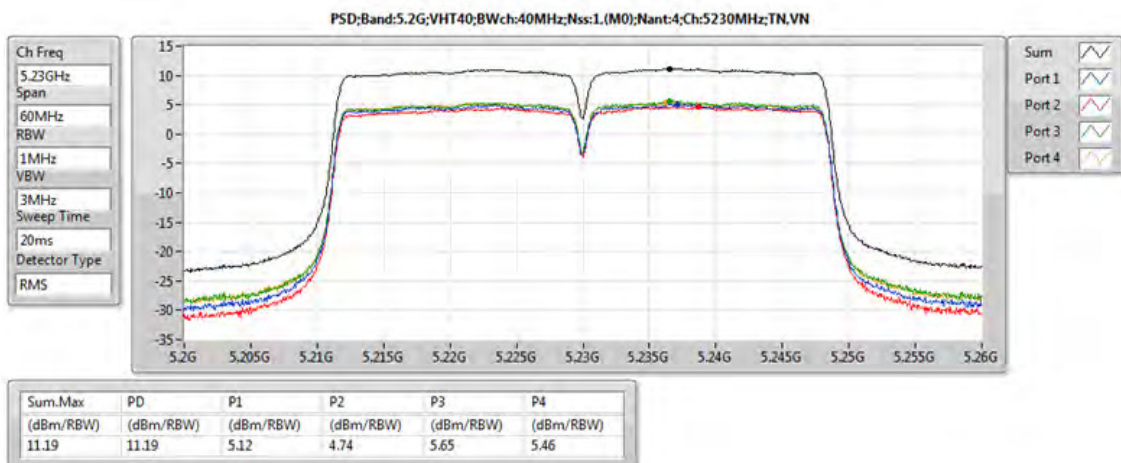
Power Spectral Density on Configuration IEEE 802.11ac VHT20 / MCS0 Nss1 / UNII-3 5825MHz / 4TX

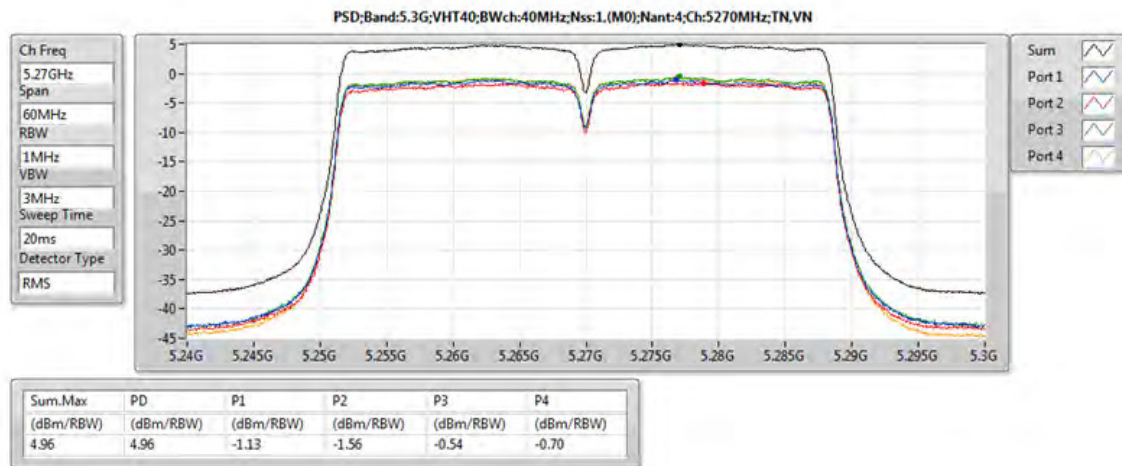
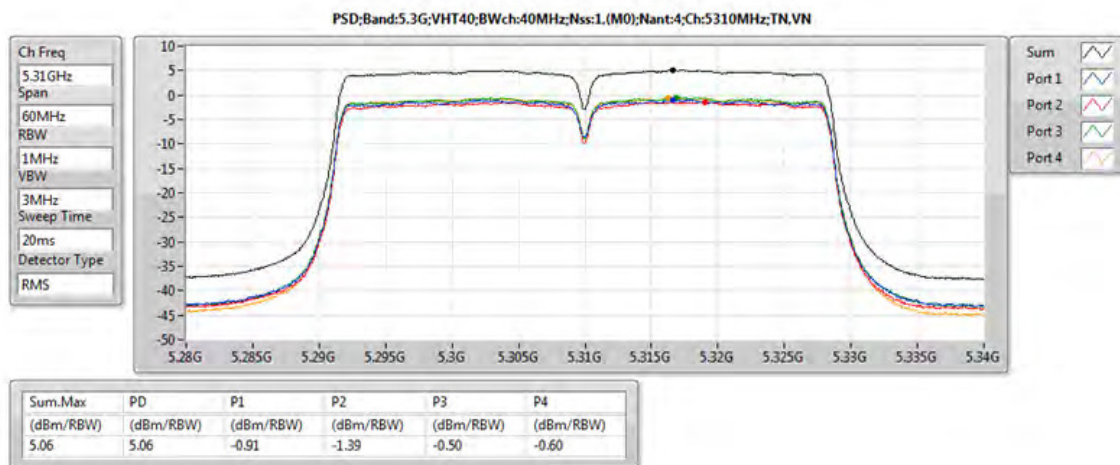


Power Spectral Density on Configuration IEEE 802.11ac VHT40 / MCS0 Nss1 / UNII-1 5190MHz / 4TX

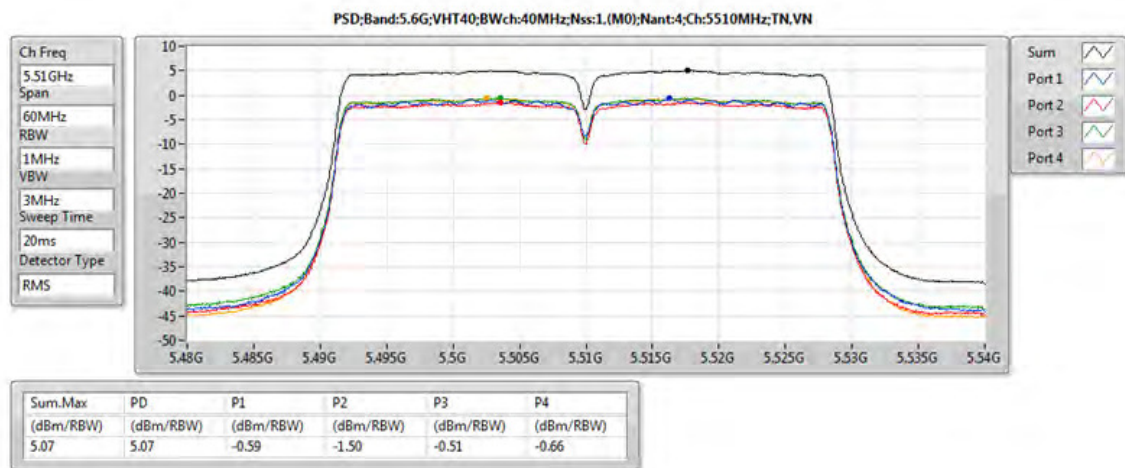


Power Spectral Density on Configuration IEEE 802.11ac VHT40 / MCS0 Nss1 / UNII-1 5230MHz / 4TX



Power Spectral Density on Configuration IEEE 802.11ac VHT40 / MCS0 Nss1 / UNII-2A 5270MHz / 4TX

Power Spectral Density on Configuration IEEE 802.11ac VHT40 / MCS0 Nss1 / UNII-2A 5310MHz / 4TX


Power Spectral Density on Configuration IEEE 802.11ac VHT40 / MCS0 Nss1 / UNII-2C 5510MHz / 4TX



Power Spectral Density on Configuration IEEE 802.11ac VHT40 / MCS0 Nss1 / UNII-2C 5550MHz / 4TX

