



FCC Test Report

FCC ID : TOR-C250
Equipment : 802.11 a/n/ac/ax + b/g/n/ax Access Point
Brand Name : Arista
Model Name : C-250
Applicant : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA 95054
Manufacturer : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA 95054
Standard : 47 CFR FCC Part 15.407

The product was received on May 09, 2019, and testing was started from Jun. 14, 2019 and completed on Jul. 05, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS**APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH****APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER****APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY****APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS****APPENDIX F. TEST PHOTOS****PHOTOGRAPHS OF EUT V01**



History of this test report



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:

For 802.11n and 802.11ac, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

Reviewed by: Jackson Tsai

Report Producer: Amber Chiu



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),ax(HEW 20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40),ax(HEW 40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax(HEW 80)	5210	42 [1]
5725-5850		5775	155 [1]

Radio 0_4TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX



Radio 0_8TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	8TX
5.725-5.85GHz	802.11a	20	8TX
5.15-5.25GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.15-5.25GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX
5.15-5.25GHz	802.11ax HEW20	20	8TX
5.725-5.85GHz	802.11ax HEW20	20	8TX
5.15-5.25GHz	802.11ax HEW40	40	8TX
5.725-5.85GHz	802.11ax HEW40	40	8TX
5.15-5.25GHz	802.11ax HEW80	80	8TX
5.725-5.85GHz	802.11ax HEW80	80	8TX

Radio 2_2TX

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

Note:

- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.
- The resource unit of HEW 20, HEW 40, HEW 80 only support full loading.



1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	Arista	C-250	PIFA antenna	I-PEX	5G
2	Arista	C-250	PIFA antenna	I-PEX	5G
3	Arista	C-250	PIFA antenna	I-PEX	5G
4	Arista	C-250	PIFA antenna	I-PEX	5G
5	Arista	C-250	PIFA antenna	I-PEX	5G
6	Arista	C-250	PIFA antenna	I-PEX	5G
7	Arista	C-250	PIFA antenna	I-PEX	5G
8	Arista	C-250	PIFA antenna	I-PEX	5G
9	Arista	C-250	PIFA antenna	I-PEX	2.4G
10	Arista	C-250	PIFA antenna	I-PEX	2.4G
11	Arista	C-250	PIFA antenna	I-PEX	2.4G
12	Arista	C-250	PIFA antenna	I-PEX	2.4G
13	Arista	C-250	PIFA antenna	I-PEX	2.4G+5G
14	Arista	C-250	PIFA antenna	I-PEX	2.4G+5G
15	Arista	C-250	PIFA antenna	I-PEX	BT

Ant.	Gain (dBi)				
	Radio 0		Radio 2		Radio 3
	5G	2.4G	2.4G	5G	BT LE
1	5	-	-	-	
2	5	-	-	-	-
3	5	-	-	-	-
4	5	-	-	-	-
5	5	-	-	-	-
6	5	-	-	-	-
7	5	-	-	-	-
8	5	-	-	-	-
9	-	4	-	-	-
10	-	4	-	-	-
11	-	4	-	-	-
12	-	4	-	-	-
13	-	-	3.5	5	-
14	-	-	3.5	5	-
15	-	-	-	-	3.5

**For 2.4GHz function:**

For IEEE 802.11 b/g/n/ac/ax mode (4TX/4RX)(Radio1)

Ant. 9~ 12 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n mode (2TX/2RX)(Radio2)

Ant. 13 and Ant. 14 could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)(Radio 3)

Ant. 15 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (8TX/8RX)(Radio 0)

Ant. 1~8 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)(Radio 0)

Ant. 1~4 could transmit/receive simultaneously.

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

Ant. 13 and Ant. 14 could transmit/receive simultaneously.

1.1.3 EUT Information

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



1.1.4 Mode Test Duty Cycle

Radio 0

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.943	0.25	1.978m	1k
802.11ac VHT20	0.953	0.21	5.43m	300
802.11ac VHT40	0.949	0.23	5.43m	300
802.11ac VHT80	0.947	0.24	5.43m	300
802.11ax HEW20	0.952	0.21	5.446m	300
802.11ax HEW40	0.955	0.2	5.446m	300
802.11ax HEW80	0.953	0.21	5.439m	300

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

Radio 2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.968	0.14	2.067m	1k
802.11ac VHT20	0.965	0.15	1.936m	1k
802.11ac VHT40	0.932	0.31	954.688u	3k
802.11ac VHT80	0.876	0.57	467.188u	3k

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



1.2 Testing Applied Standards

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

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

1.3 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	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.				
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)		
		TEL : 886-3-656-9065	FAX : 886-3-656-9085	
Test site Designation No. TW0006 with FCC.				

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Tim	21~24°C / 61~66%	14/Jun/2019~23/Jun/2019
Radiated	03CH02-HY	Andy	21.6~23.8°C / 52.6~54.8%	15/Jun/2019~20/Jun/2019
AC Conduction	CO04-HY	Jeff	21.2~23.2°C / 51.8~53.6%	05/Jul/2019

1.4 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Test Software Version	QRCT

Radio 0_4TX

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	14
5200MHz	16.5
5240MHz	15.5
5745MHz	21.5
5785MHz	21.5
5825MHz	21.5
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	14
5200MHz	17
5240MHz	16
5745MHz	21.5
5785MHz	21.5
5825MHz	21.5
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	14.5
5230MHz	17.5
5755MHz	18
5795MHz	19
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	14
5775MHz	15.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-



Mode	Power Setting
5180MHz	14
5200MHz	17
5240MHz	16
5745MHz	21.5
5785MHz	21.5
5825MHz	21.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	14.5
5230MHz	17.5
5755MHz	18
5795MHz	19
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	14
5775MHz	15.5

Radio 0_8TX

Mode	Power Setting
802.11a_Nss1,(6Mbps)_8TX	-
5180MHz	11.5
5200MHz	11.5
5240MHz	10.5
5745MHz	17
5785MHz	17
5825MHz	17.5
802.11ac VHT20_Nss1,(MCS0)_8TX	-
5180MHz	11.5
5200MHz	11.5
5240MHz	11
5745MHz	17
5785MHz	17
5825MHz	17
802.11ac VHT40_Nss1,(MCS0)_8TX	-
5190MHz	14.5
5230MHz	14
5755MHz	18



Mode	Power Setting
5795MHz	18.5
802.11ac VHT80_Nss1,(MCS0)_8TX	-
5210MHz	13.5
5775MHz	15
802.11ax HEW20_Nss1,(MCS0)_8TX	-
5180MHz	12
5200MHz	12
5240MHz	11.5
5700MHz	6.5
5745MHz	17
5785MHz	17
5825MHz	17
802.11ax HEW40_Nss1,(MCS0)_8TX	-
5190MHz	14.5
5230MHz	15
5755MHz	18
5795MHz	18.5
802.11ax HEW80_Nss1,(MCS0)_8TX	-
5210MHz	13.5
5775MHz	15

Radio 2_2TX

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	16
5200MHz	20
5240MHz	19.5
5745MHz	19
5785MHz	24
5825MHz	13.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	17
5200MHz	20
5240MHz	18.5
5745MHz	16



Mode	Power Setting
5785MHz	22
5825MHz	21
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	13.5
5230MHz	19.5
5755MHz	18
5795MHz	19
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	8
5775MHz	18.5



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; 5G_Radio 0
2	Adapter mode; 5G_Radio 2

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; 5G_Radio 0, 4TX						
2	Adapter mode; 5G_Radio 0, 8TX						
3	Adapter mode; 5G_Radio 2, 2TX						
Operating Mode > 1GHz	CTX						
Orthogonal Planes of EUT	<table border="1"> <thead> <tr> <th>X Plane</th> <th>Y Plane</th> <th>Z Plane</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	X Plane	Y Plane	Z Plane			
X Plane	Y Plane	Z Plane					
Worst Planes of EUT	V						

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Bluetooth+ WLAN 2.4GHz(Radio 1)+ WLAN 2.4G(Radio 2)+ WLAN 5G(Radio 0)
2	Bluetooth+ WLAN 2.4GHz(Radio 1)+ WLAN 5G(Radio 2)+ WLAN 5G(Radio 0)

Refer to Sporton Test Report No.: FA950730 for Co-location RF Exposure Evaluation.



2.4 Support Equipment

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Load	N/A	N/A	N/A
2	AC adapter	Powertron Electronics Corp	PA1045-120HUB	N/A

Support equipment No.2 was provided by customer.

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

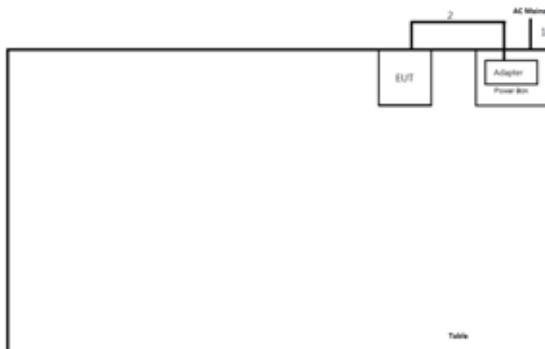
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Load	N/A	N/A	N/A
2	AC adapter	Powertron Electronics Corp	PA1045-120HUB	N/A

Support equipment No.2 was provided by customer.



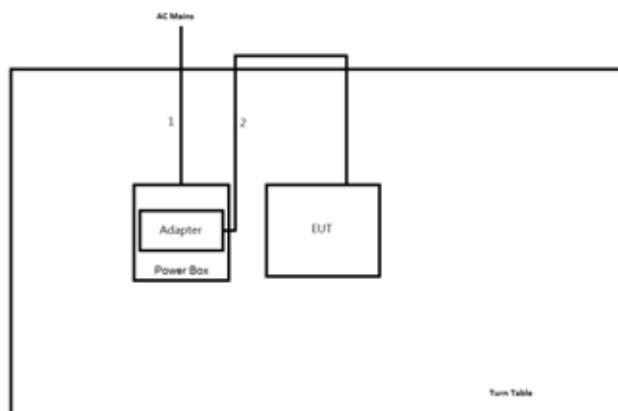
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	DC Power line	No	1.7	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	DC Power line	No	1.7	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

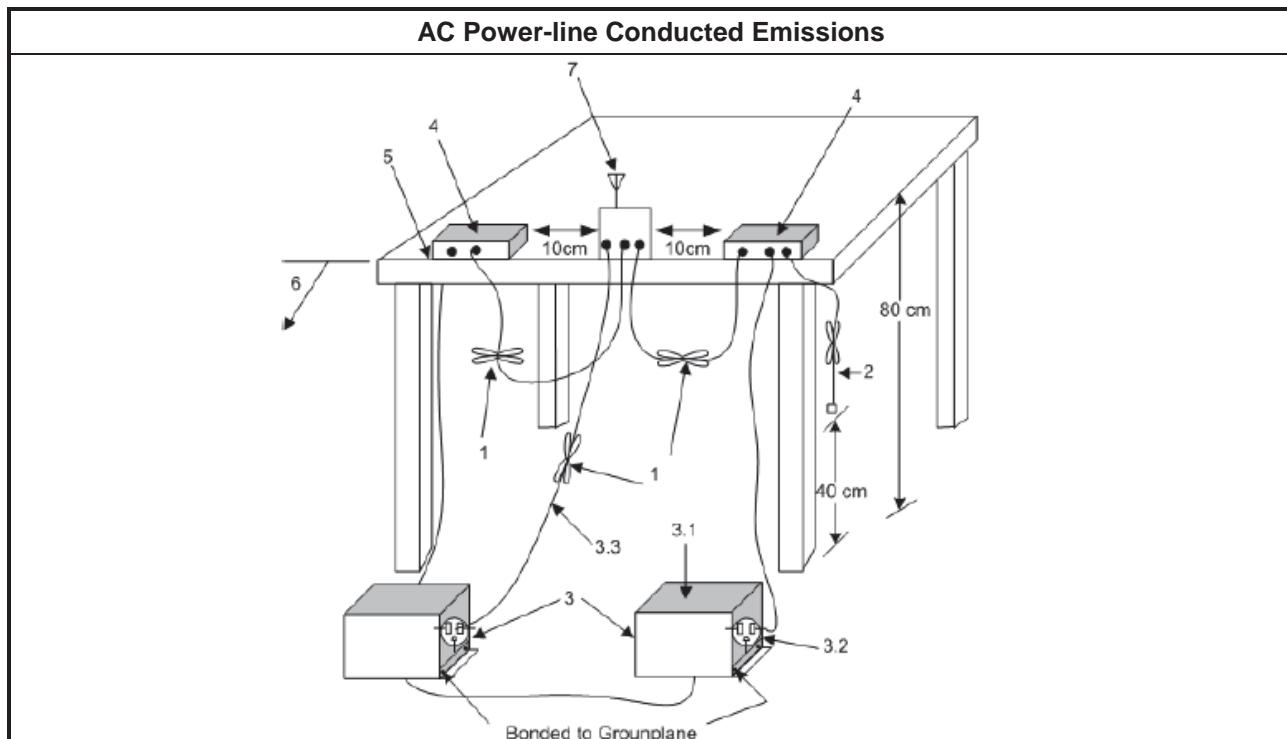
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> 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	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input type="checkbox"/>	For the 5.25-5.35 GHz band, N/A
<input type="checkbox"/>	For the 5.47-5.725 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

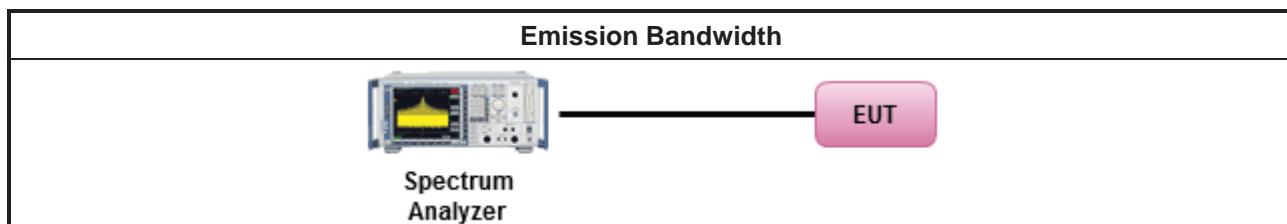
3.2.2 Measuring Instruments

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:	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	<ul style="list-style-type: none">▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125\text{mW}$ [21dBm]▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, 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 $G_{TX} > 23 \text{ dBi}$, 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 $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/> 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 $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input type="checkbox"/> 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 $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	<ul style="list-style-type: none">▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, 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>P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

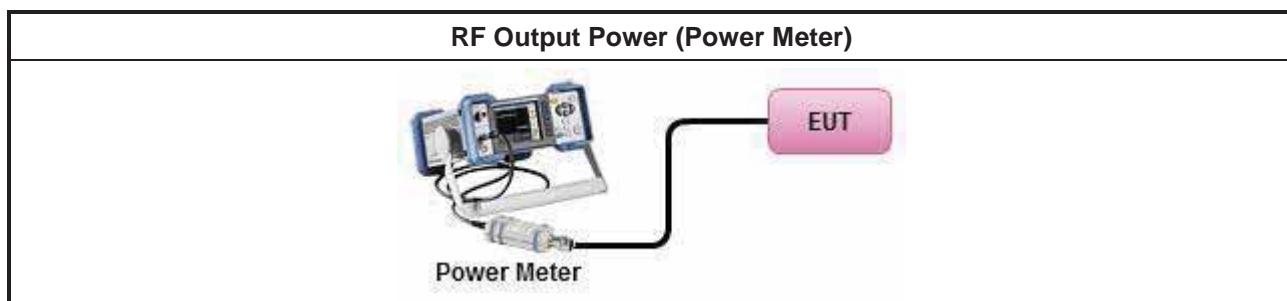
3.3.2 Measuring Instruments

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 ≥ 98%	<input type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle < 98%	<input type="checkbox"/> 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	<input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method PM (using an RF average power meter).
▪ For conducted measurement.	
	<ul style="list-style-type: none">▪ 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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 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	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	<ul style="list-style-type: none">▪ 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 $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	<ul style="list-style-type: none">▪ 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

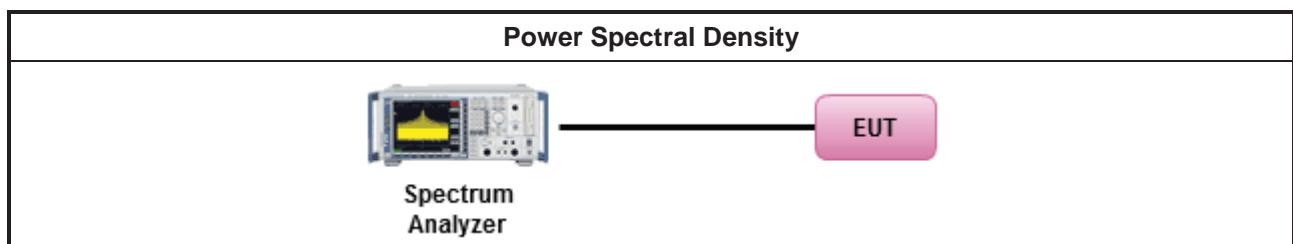
Refer a test equipment and calibration data table in this test report.



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:	<input type="checkbox"/> Refer as 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 \geq 98%	<input type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle $<$ 98%	<input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
▪ For conducted measurement.	<ul style="list-style-type: none">▪ If the EUT supports multiple transmit chains using options given below:
	<ul style="list-style-type: none">▪ 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: $\text{PPSD}_{\text{total}} = \text{PPSD}_1 + \text{PPSD}_2 + \dots + \text{PPSD}_n$(calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = \text{PPSD}_{\text{total}} + \text{DG}$

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 ~ 68.2 dBuV/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).	



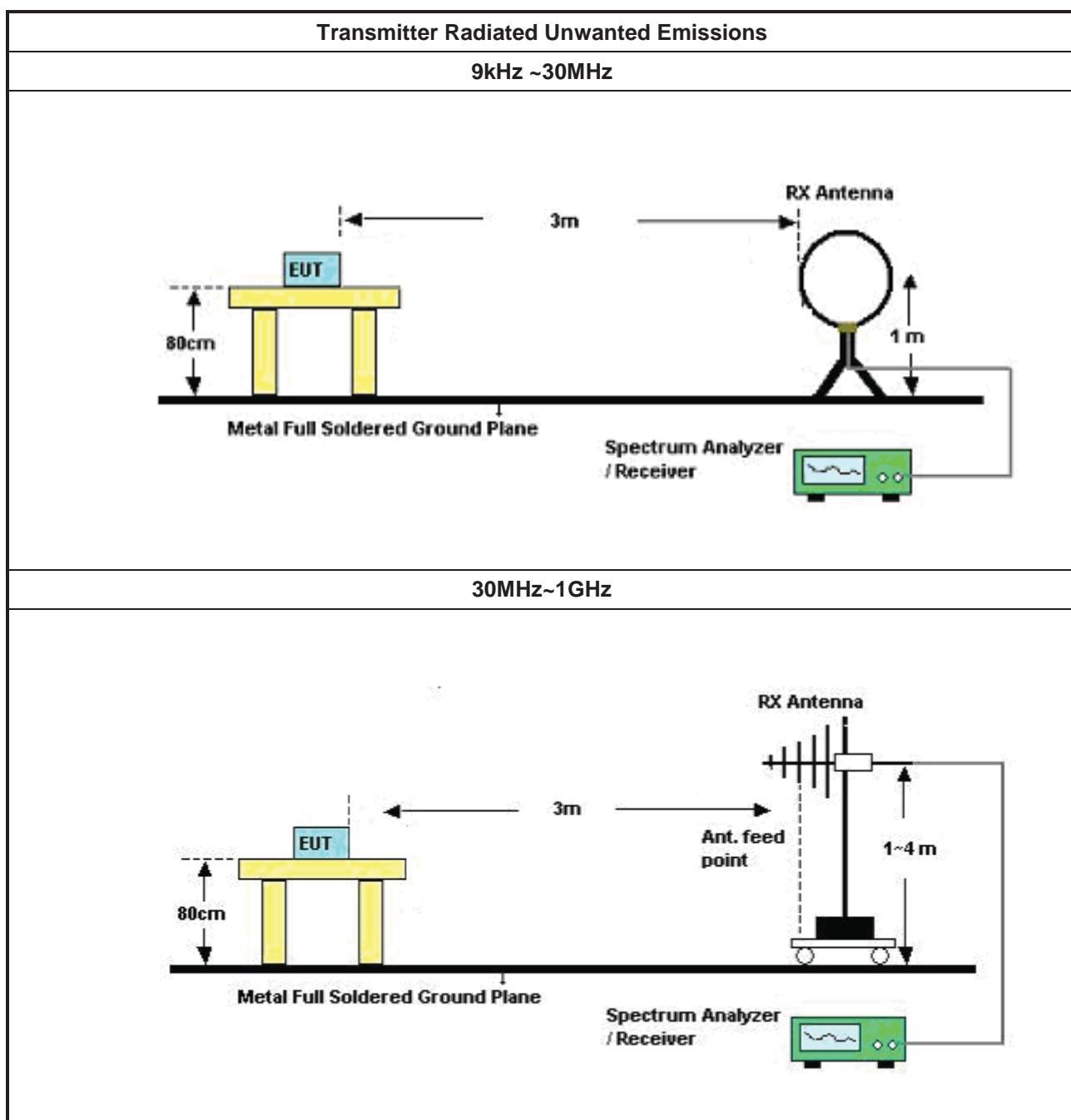
3.5.2 Measuring Instruments

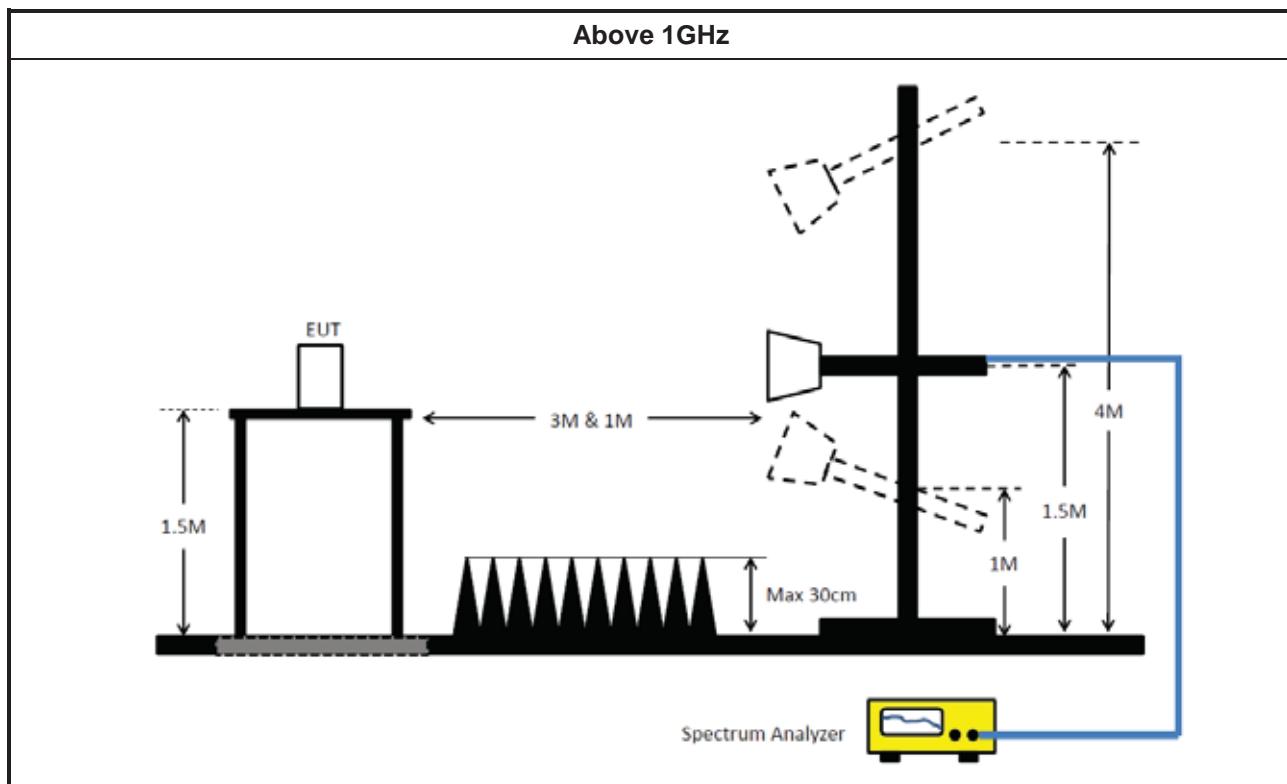
Refer a test equipment and calibration data table in this test report.

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.
	<input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
	<input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
▪ For radiated measurement.	
	▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
▪ The any unwanted emissions level shall not exceed the fundamental emission level.	
▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup







3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



3.6 Test Equipment and Calibration Data

Instrument for AC Conduction

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

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	27Jul/2018	02/Jul/2019
Amplifier	KEYSIGHT	83017A	MY53270197	1GHz ~ 26.5GHz	30/Nov/2018	29/Nov/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Dec/2018	26/Dec/2019
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	9/Apr/2019	8/Apr/2020
RF Cable-high 7m	SUHNER	SUCOFLEX104	10567868 / SN805192/4	1GHz~40GHz	9/Apr/2019	8/Apr/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2018	07/Sep/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020



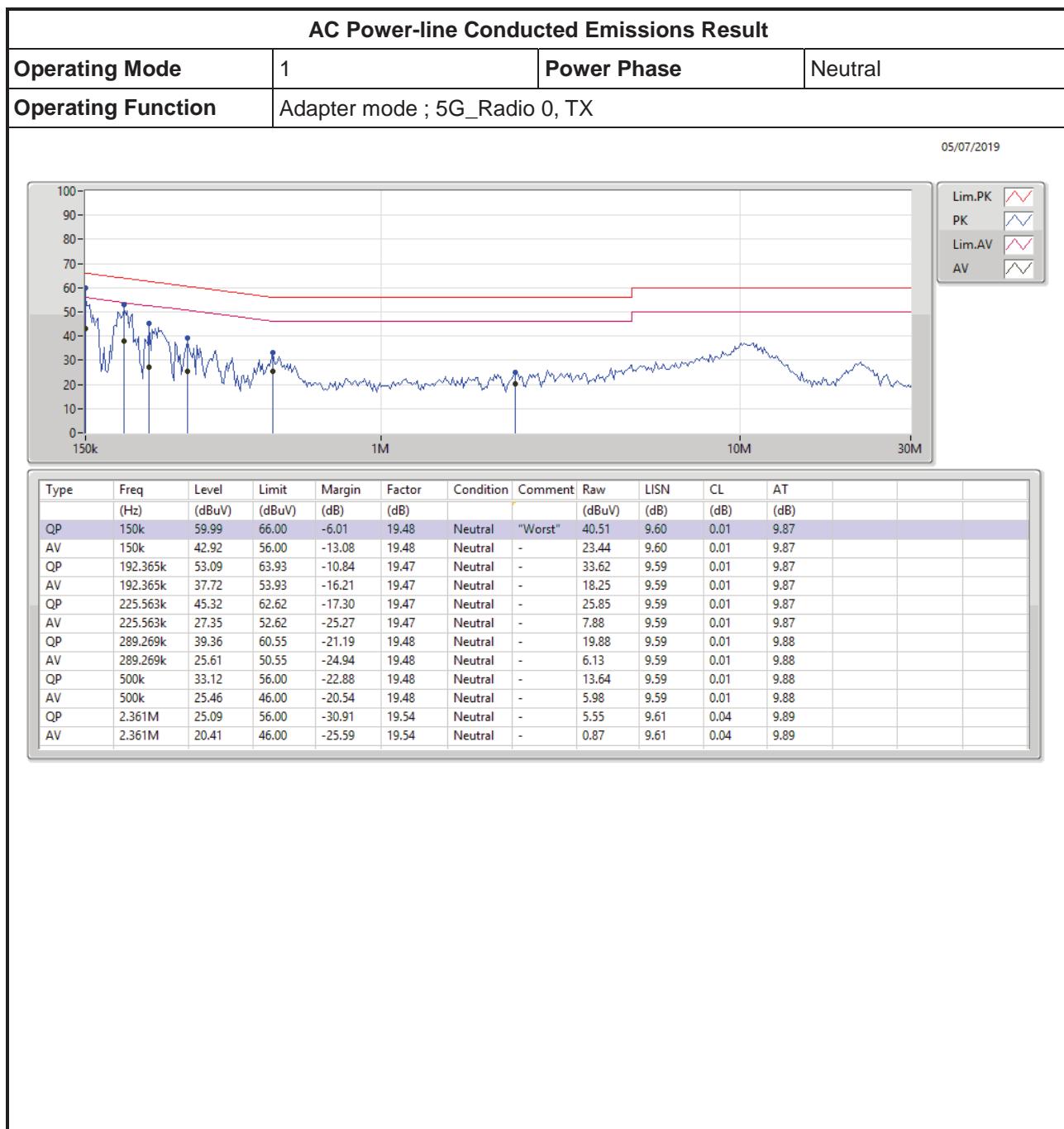
Instrument for Conducted Test

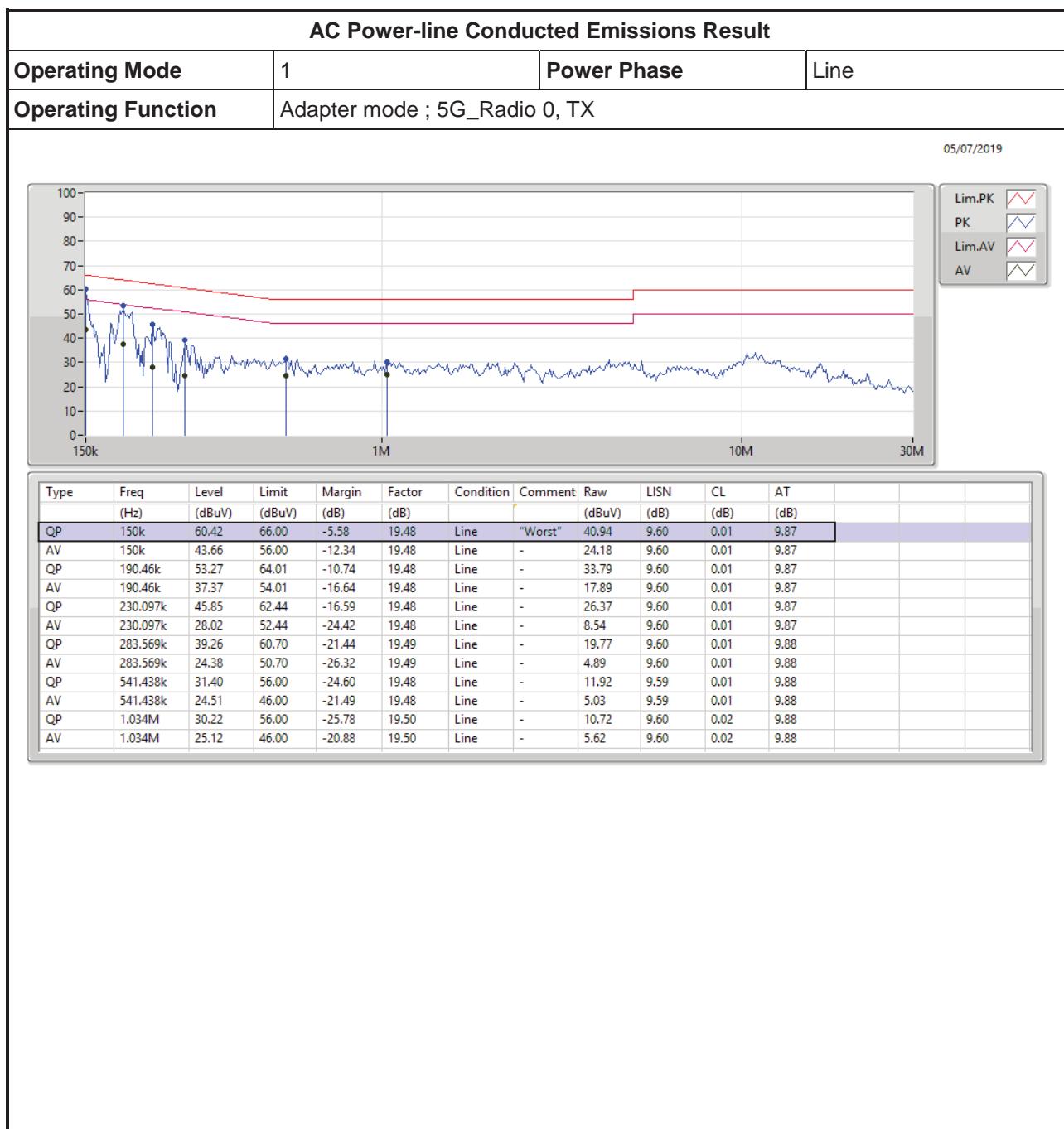
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	10Hz~40GHz	18/Jul/2018	17/Jul/2019
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020



AC Power-line Conducted Emissions

Appendix A

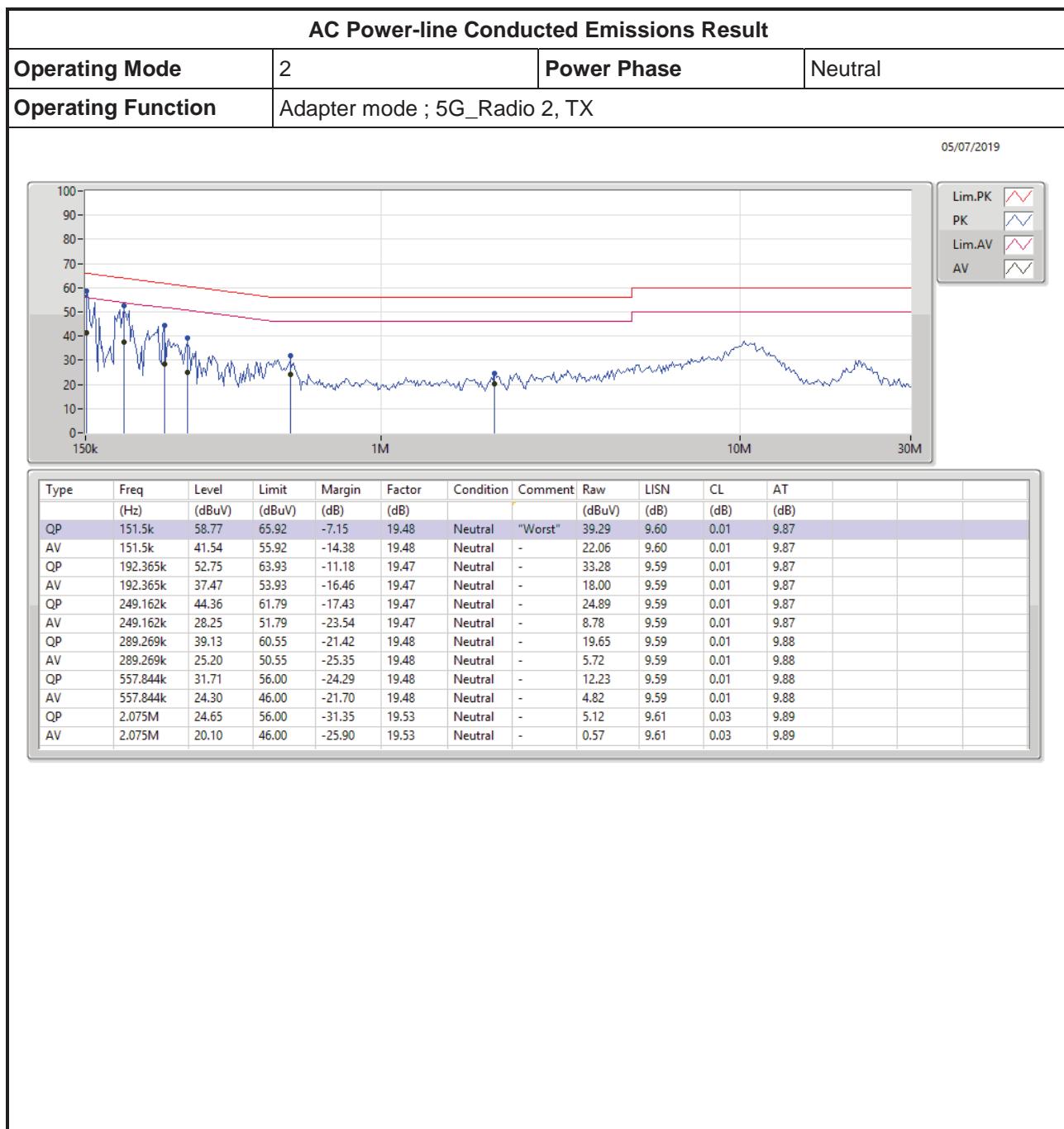


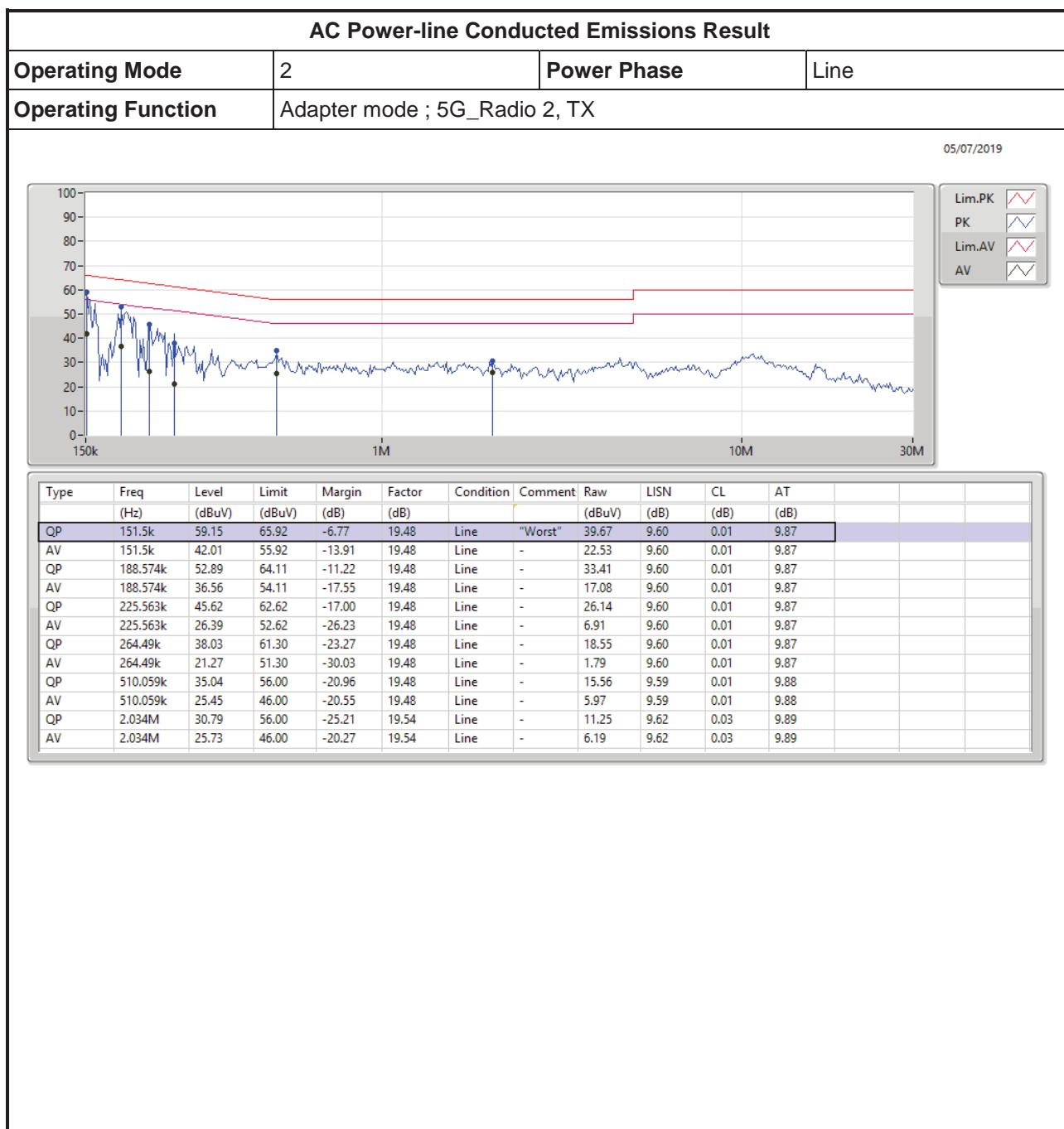




AC Power-line Conducted Emissions

Appendix A





**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)_4TX	20.28M	16.432M	16M4D1D	18.93M	16.372M
802.11ac VHT20_Nss1,(MCS0)_4TX	21.69M	17.661M	17M7D1D	20.67M	17.571M
802.11ac VHT40_Nss1,(MCS0)_4TX	47.88M	36.222M	36M2D1D	40.14M	35.982M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.32M	75.442M	75M4D1D	81.24M	75.322M
802.11ax HEW20_Nss1,(MCS0)_4TX	22.56M	18.981M	19M0D1D	21.24M	18.861M
802.11ax HEW40_Nss1,(MCS0)_4TX	49.2M	37.841M	37M8D1D	40.8M	37.721M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.8M	77.241M	77M2D1D	81.72M	77.001M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.38M	36.342M	36M3D1D	15.66M	24.528M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.61M	38.051M	38M1D1D	16.89M	25.517M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.36M	55.292M	55M3D1D	36M	36.222M
802.11ac VHT80_Nss1,(MCS0)_4TX	76.32M	75.682M	75M7D1D	74.52M	75.322M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.96M	38.291M	38M3D1D	18M	25.337M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.98M	56.912M	56M9D1D	37.5M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.4M	77.241M	77M2D1D	77.04M	77.121M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



Result

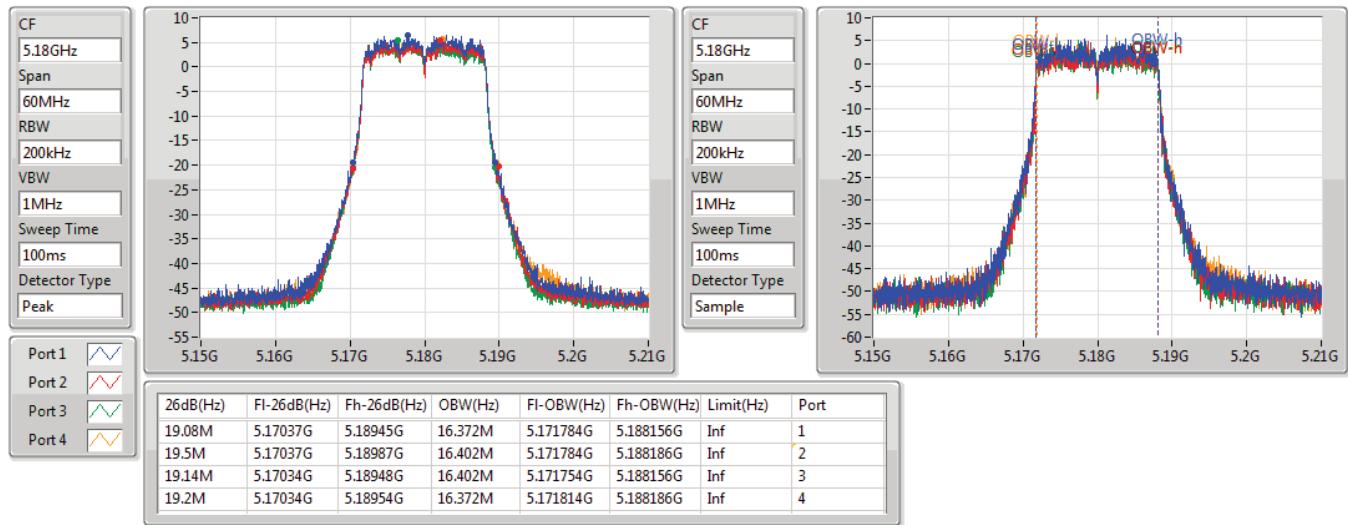
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.08M	16.372M	19.5M	16.402M	19.14M	16.402M	19.2M	16.372M
5200MHz	Pass	Inf	20.19M	16.432M	19.83M	16.432M	20.28M	16.432M	19.74M	16.432M
5240MHz	Pass	Inf	19.5M	16.432M	19.56M	16.402M	19.62M	16.432M	18.93M	16.372M
5745MHz	Pass	500k	16.38M	36.162M	16.29M	27.166M	16.29M	29.295M	16.26M	26.807M
5785MHz	Pass	500k	16.29M	36.342M	16.29M	25.607M	16.26M	27.046M	15.66M	25.457M
5825MHz	Pass	500k	16.32M	35.232M	15.69M	24.618M	16.02M	26.957M	16.29M	24.528M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.67M	17.601M	20.67M	17.571M	20.7M	17.571M	20.91M	17.601M
5200MHz	Pass	Inf	21.69M	17.661M	21.15M	17.571M	21.12M	17.571M	20.85M	17.631M
5240MHz	Pass	Inf	21M	17.601M	21.09M	17.631M	21.03M	17.601M	20.76M	17.601M
5745MHz	Pass	500k	17.61M	38.051M	17.16M	27.856M	17.61M	31.754M	17.58M	29.115M
5785MHz	Pass	500k	17.55M	37.571M	17.55M	27.226M	17.58M	27.946M	17.52M	26.207M
5825MHz	Pass	500k	17.55M	37.271M	17.55M	25.517M	16.89M	27.436M	17.55M	26.117M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.92M	36.042M	40.44M	35.982M	40.26M	36.042M	40.14M	35.982M
5230MHz	Pass	Inf	47.88M	36.222M	41.94M	36.162M	43.2M	36.102M	41.28M	36.222M
5755MHz	Pass	500k	36M	40.18M	36.3M	36.222M	36.24M	36.282M	36.3M	36.222M
5795MHz	Pass	500k	36.3M	55.292M	36.06M	36.342M	36.36M	36.282M	36.36M	36.402M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.32M	75.442M	81.96M	75.442M	82.08M	75.322M	81.24M	75.442M
5775MHz	Pass	500k	74.52M	75.682M	75.12M	75.322M	75.12M	75.682M	76.32M	75.442M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.48M	18.861M	21.42M	18.921M	21.6M	18.951M	21.45M	18.891M
5200MHz	Pass	Inf	22.56M	18.951M	21.81M	18.951M	21.69M	18.981M	21.24M	18.921M
5240MHz	Pass	Inf	21.72M	18.951M	21.63M	18.921M	21.6M	18.891M	21.54M	18.891M
5745MHz	Pass	500k	18.72M	38.291M	18.87M	28.126M	18.93M	31.934M	18.66M	29.145M
5785MHz	Pass	500k	18.81M	37.631M	18.87M	26.627M	18.81M	28.306M	18M	26.267M
5825MHz	Pass	500k	18.15M	38.051M	18.45M	25.337M	18.36M	27.286M	18.96M	25.877M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.16M	37.721M	40.8M	37.781M	40.8M	37.721M	41.16M	37.781M
5230MHz	Pass	Inf	49.2M	37.841M	41.34M	37.721M	43.2M	37.781M	42.12M	37.841M
5755MHz	Pass	500k	37.92M	42.399M	37.56M	37.841M	37.8M	37.841M	37.5M	37.781M
5795MHz	Pass	500k	37.98M	56.912M	37.92M	38.141M	37.92M	38.141M	37.62M	38.081M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.8M	77.001M	82.68M	77.001M	82.08M	77.001M	81.72M	77.241M
5775MHz	Pass	500k	77.28M	77.121M	77.04M	77.241M	77.4M	77.121M	77.4M	77.121M

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

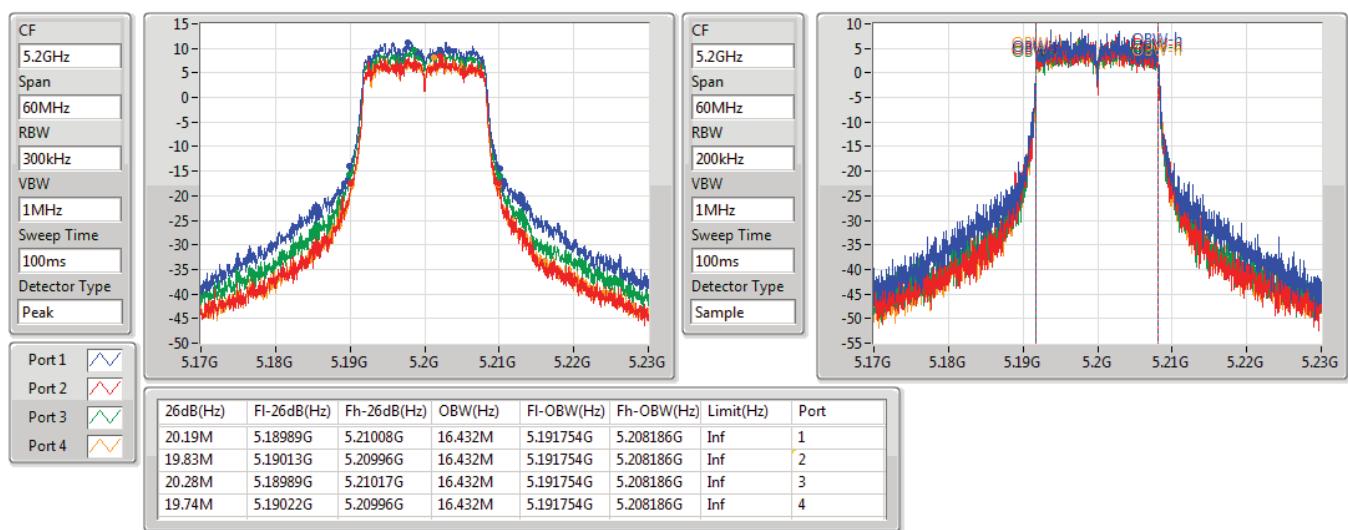
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX
EBW
5180MHz

21/06/2019

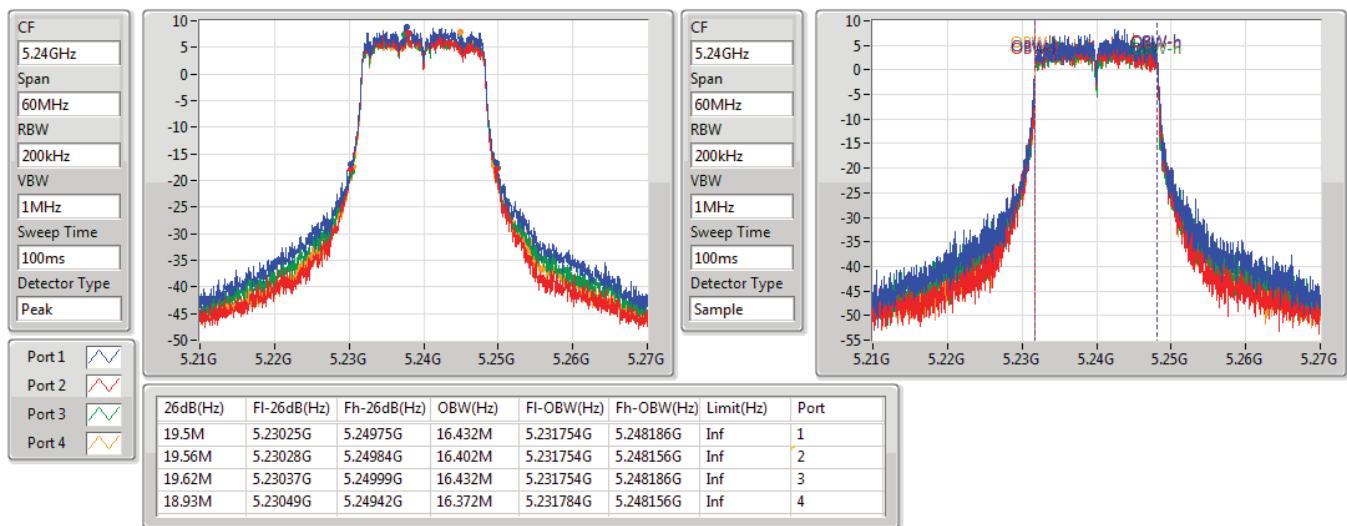

802.11a_Nss1,(6Mbps)_4TX
EBW
5200MHz

21/06/2019

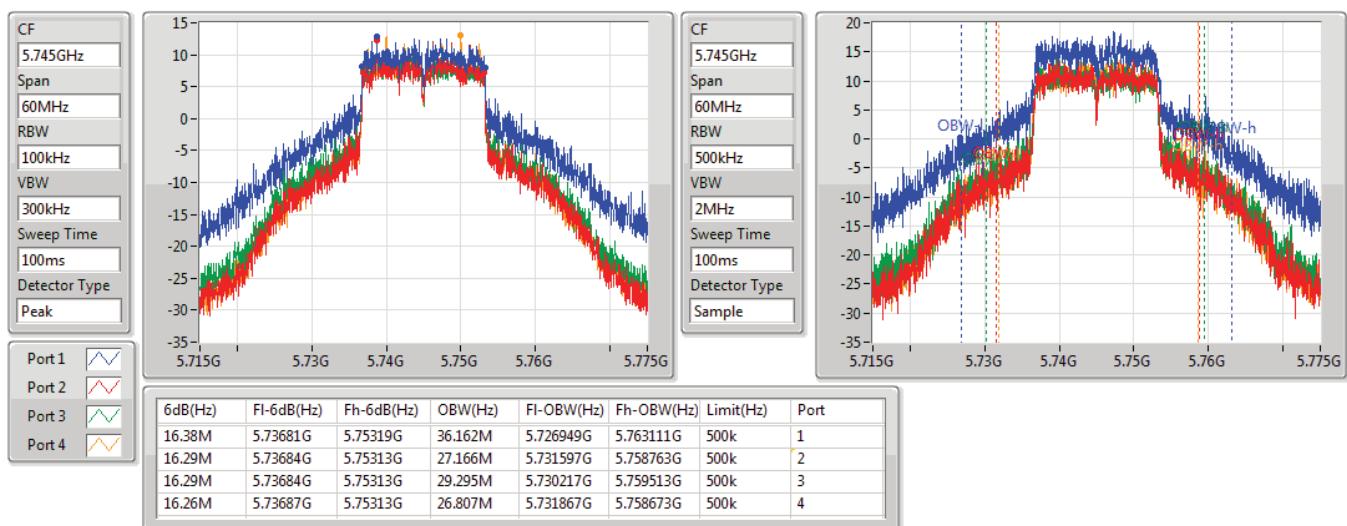


802.11a_Nss1,(6Mbps)_4TX
EBW
5240MHz

21/06/2019

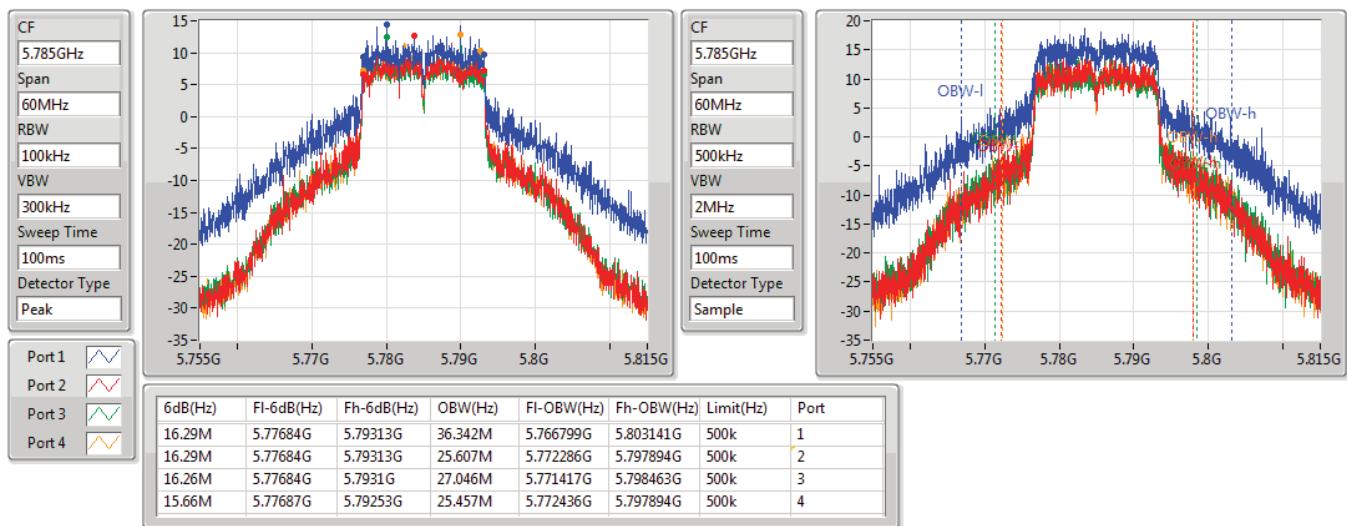

802.11a_Nss1,(6Mbps)_4TX
EBW
5745MHz

21/06/2019

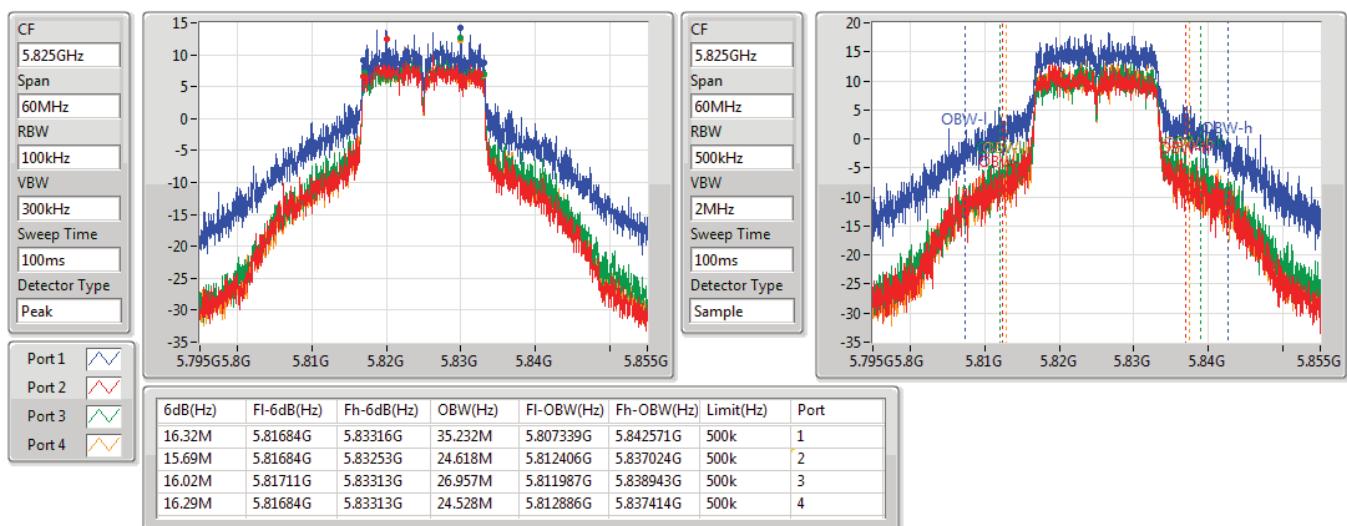


802.11a_Nss1,(6Mbps)_4TX
EBW
5785MHz

21/06/2019

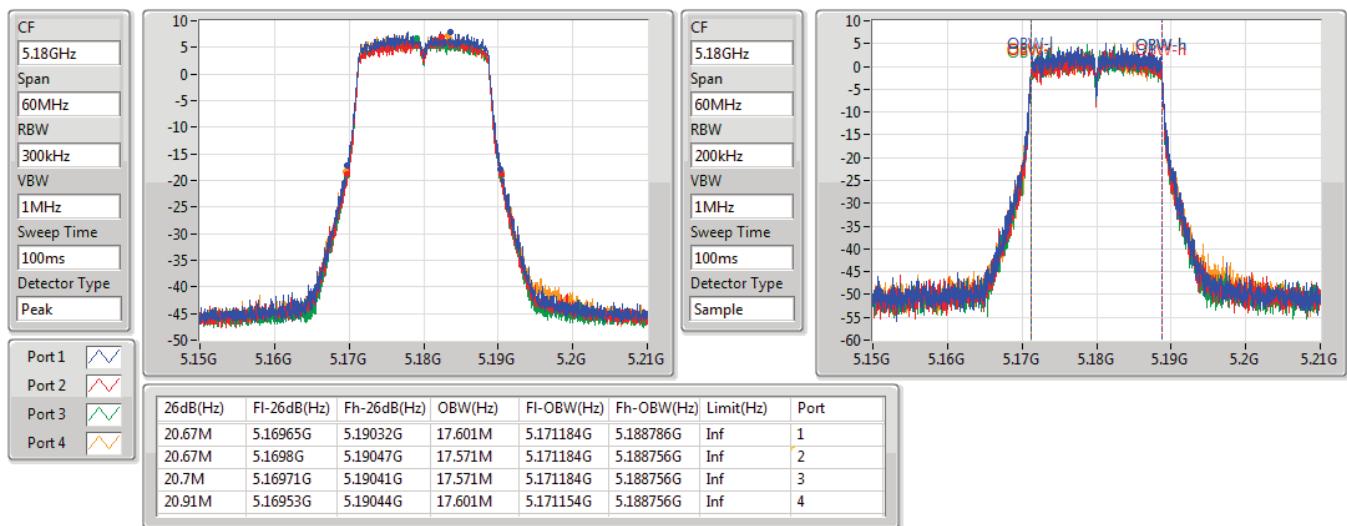

802.11a_Nss1,(6Mbps)_4TX
EBW
5825MHz

21/06/2019

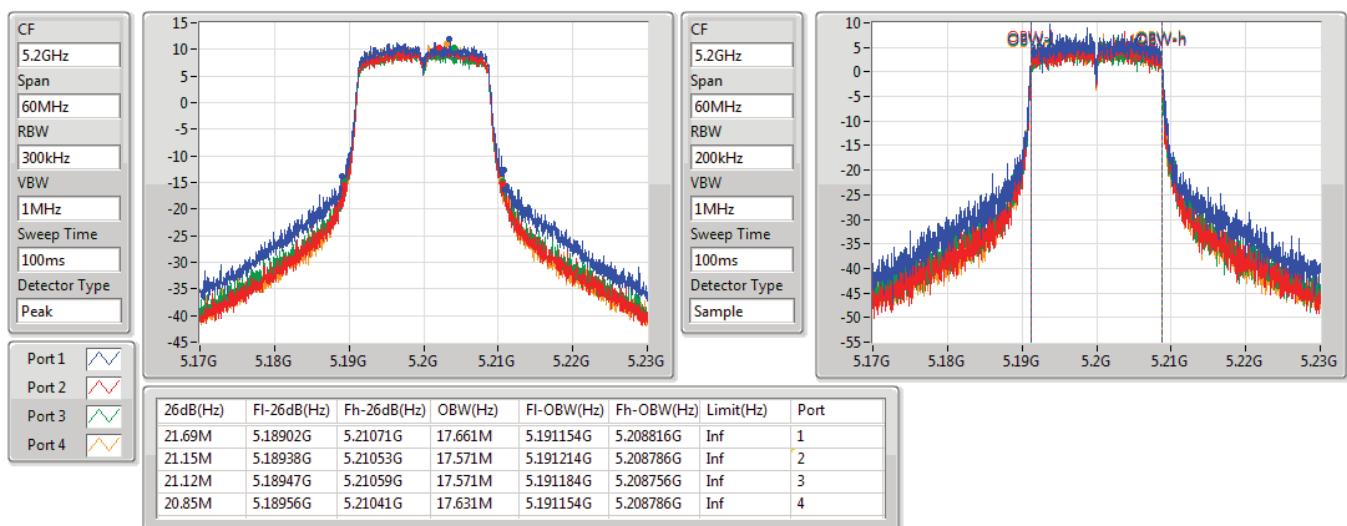


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5180MHz

21/06/2019

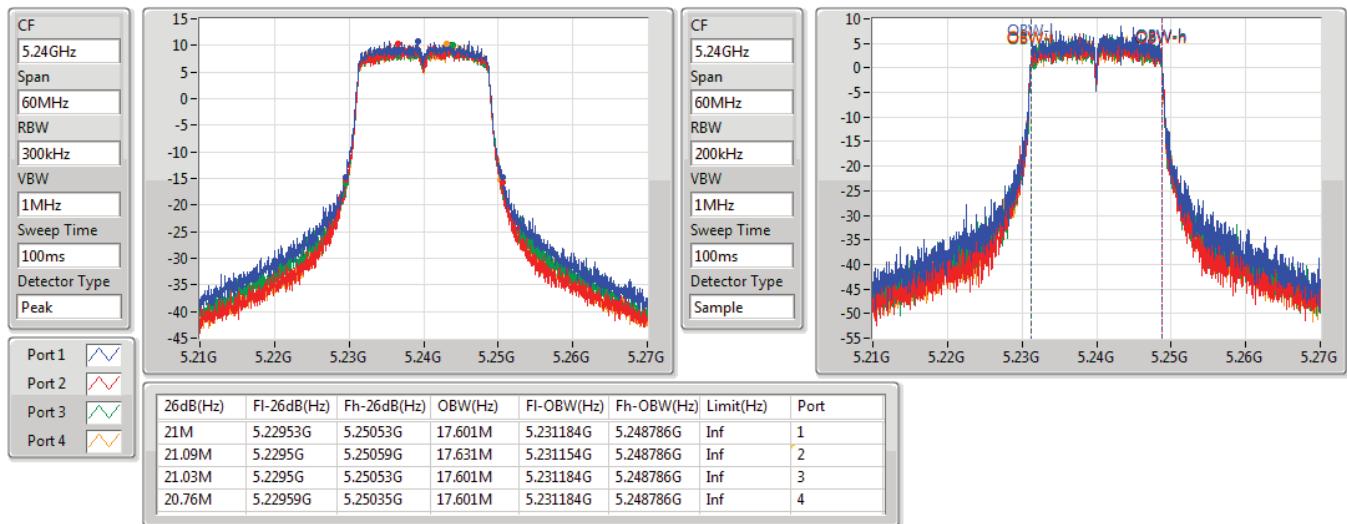

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5200MHz

21/06/2019

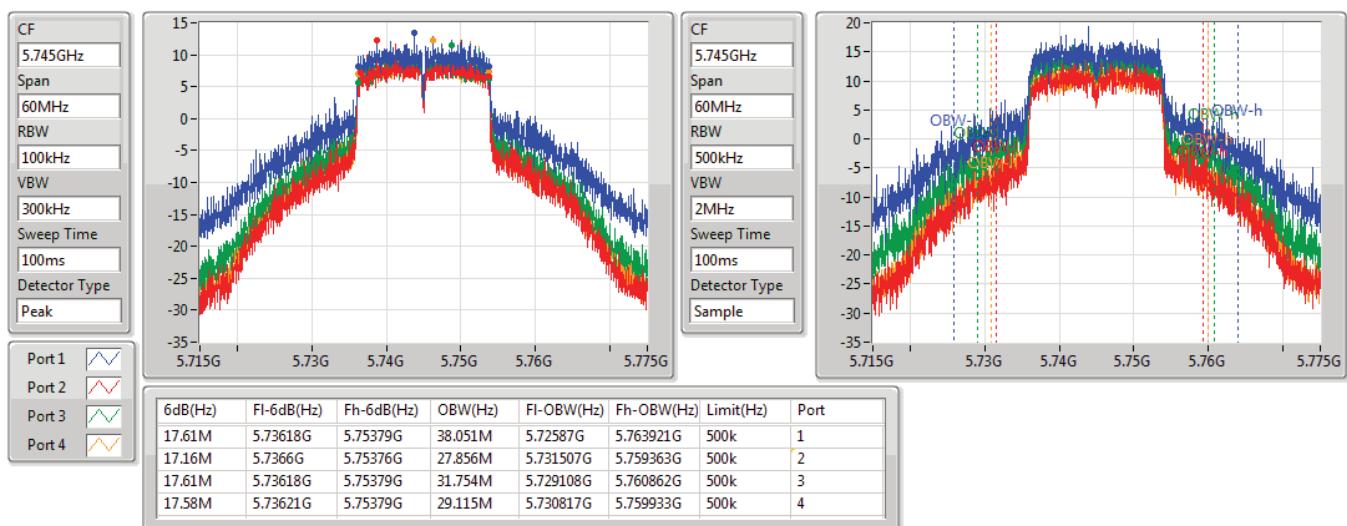


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5240MHz

21/06/2019

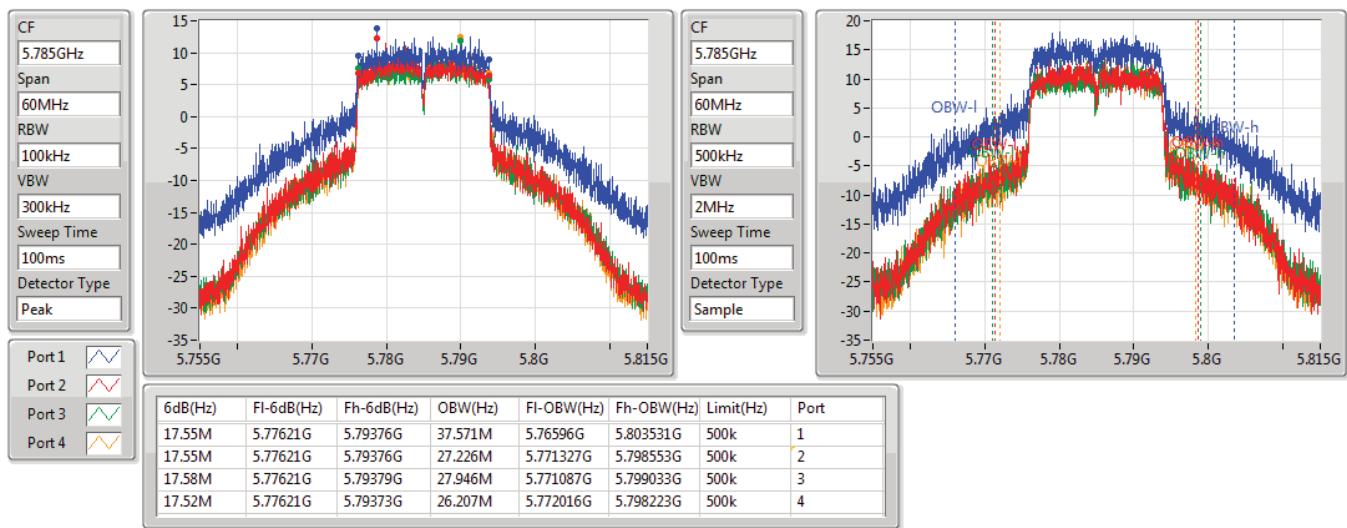

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5745MHz

21/06/2019

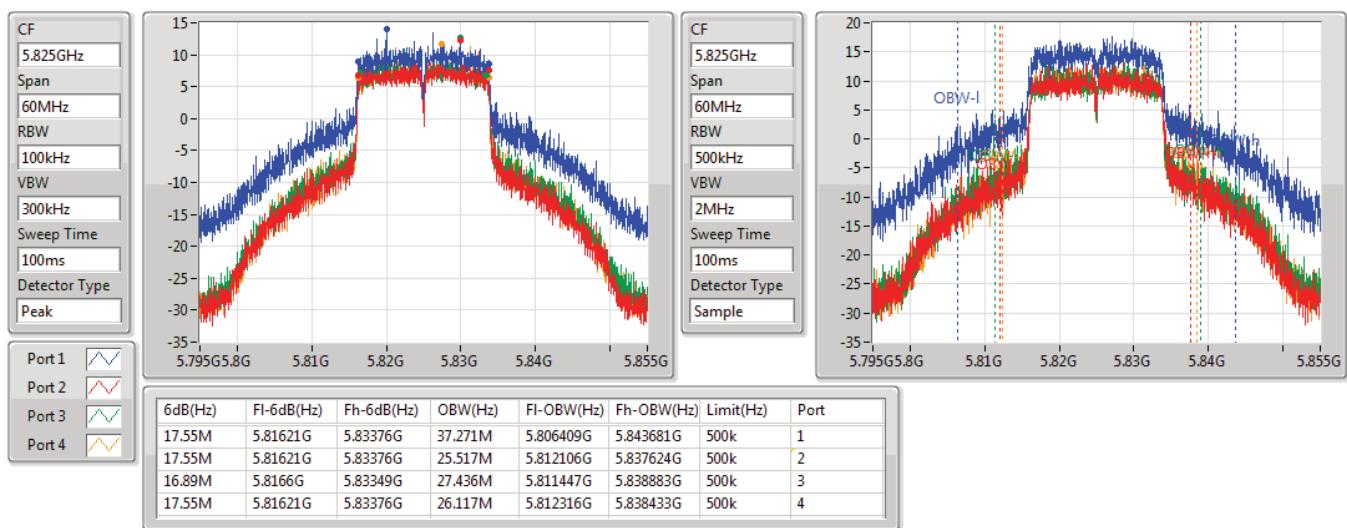


802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5785MHz

21/06/2019

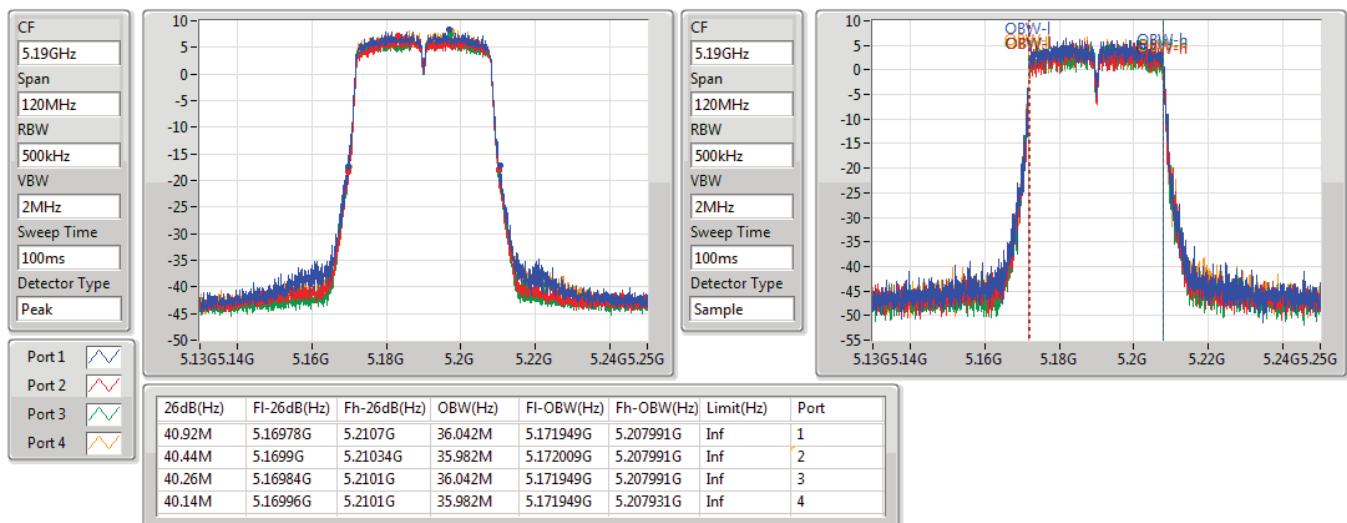

802.11ac VHT20_Nss1,(MCS0)_4TX
EBW
5825MHz

21/06/2019

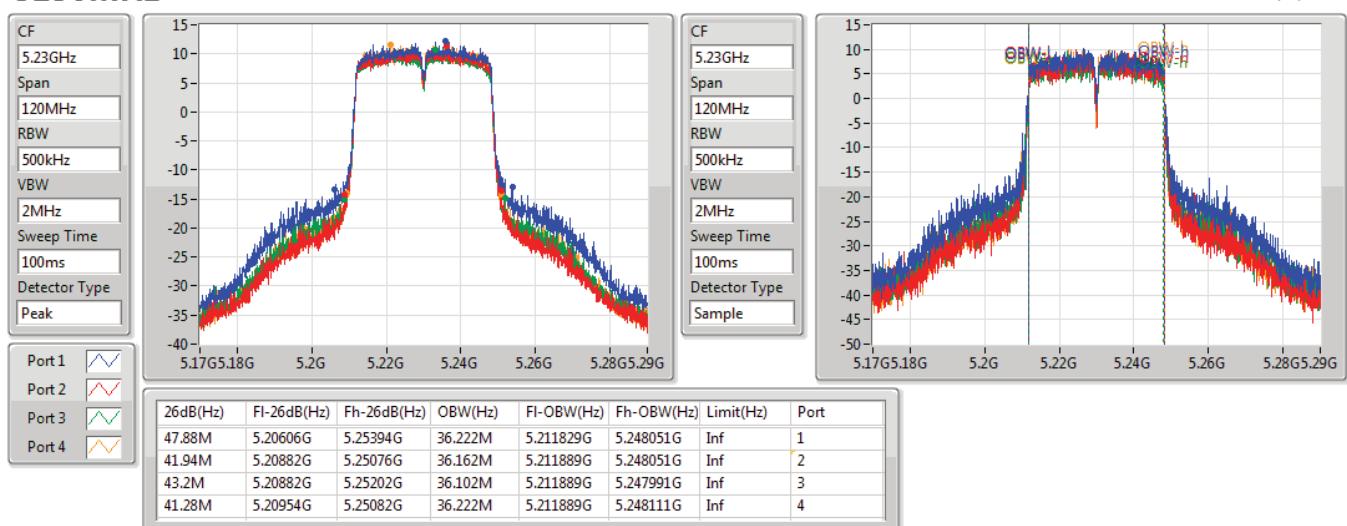


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5190MHz

21/06/2019

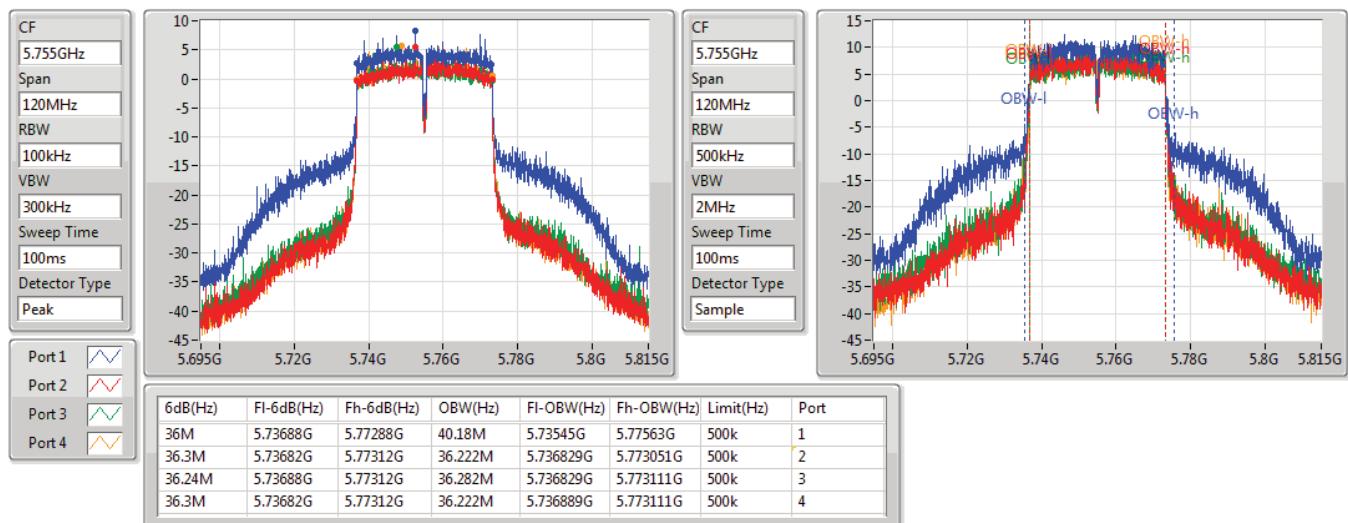

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5230MHz

21/06/2019

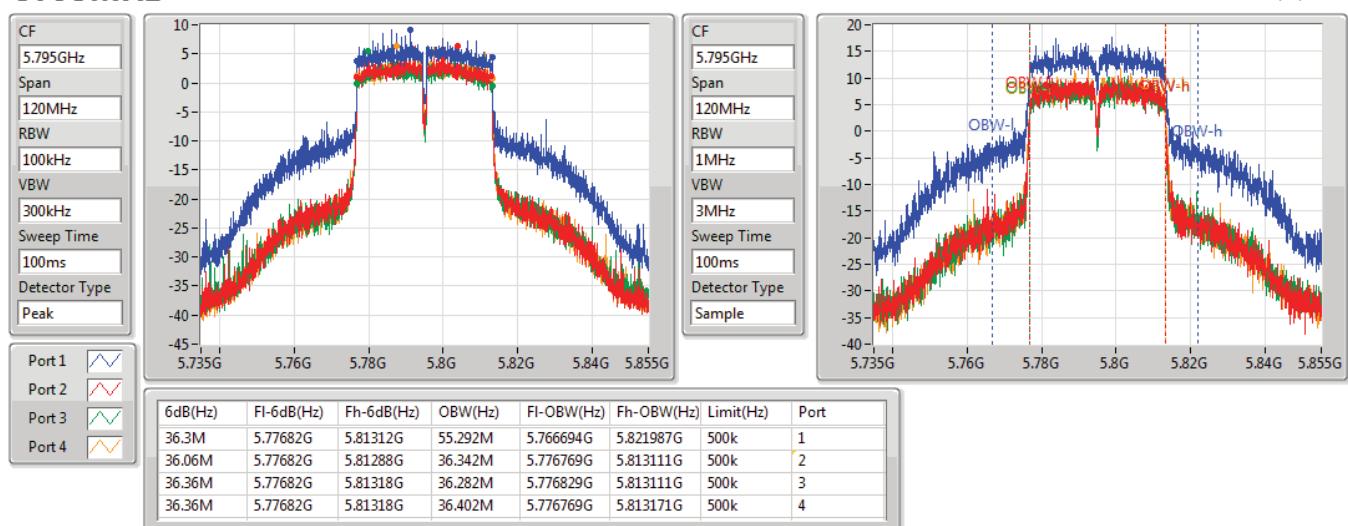


802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5755MHz

21/06/2019

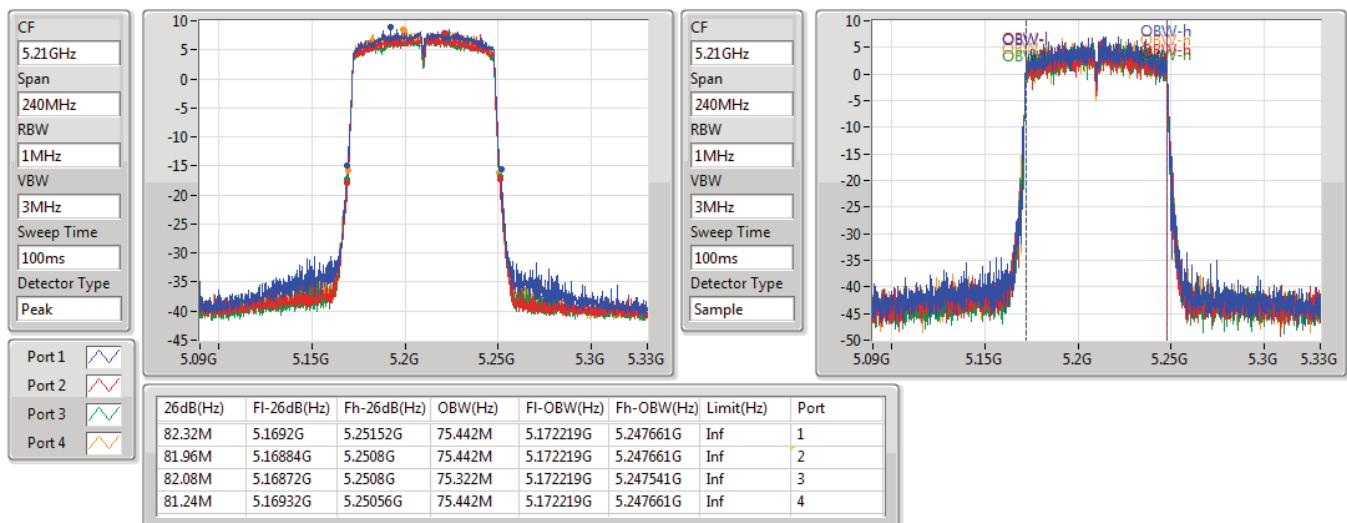

802.11ac VHT40_Nss1,(MCS0)_4TX
EBW
5795MHz

21/06/2019

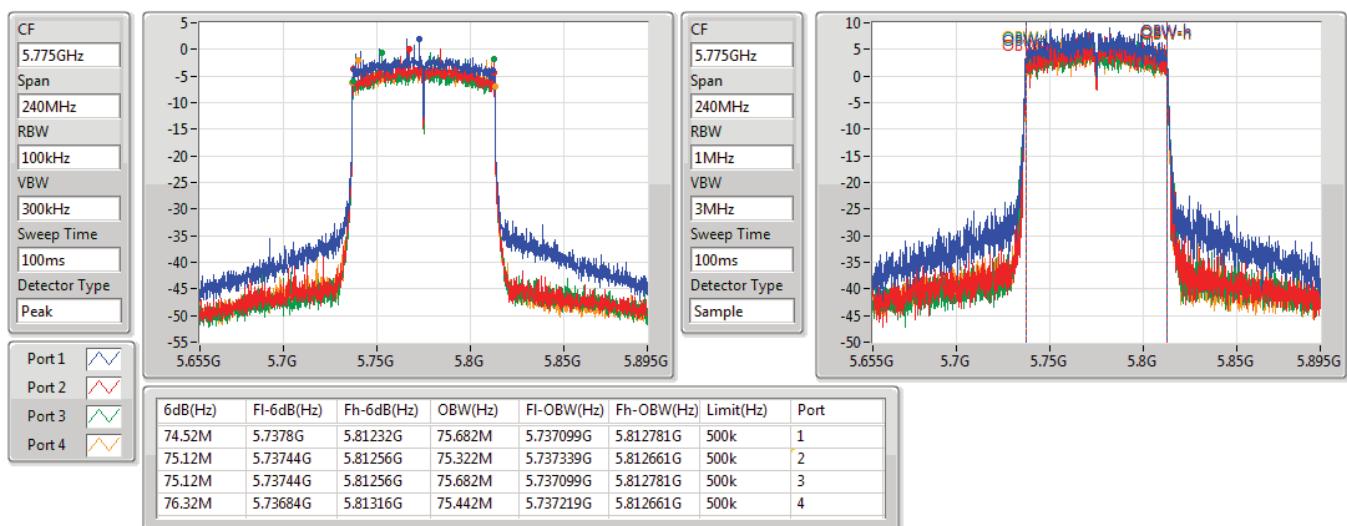


802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5210MHz

21/06/2019

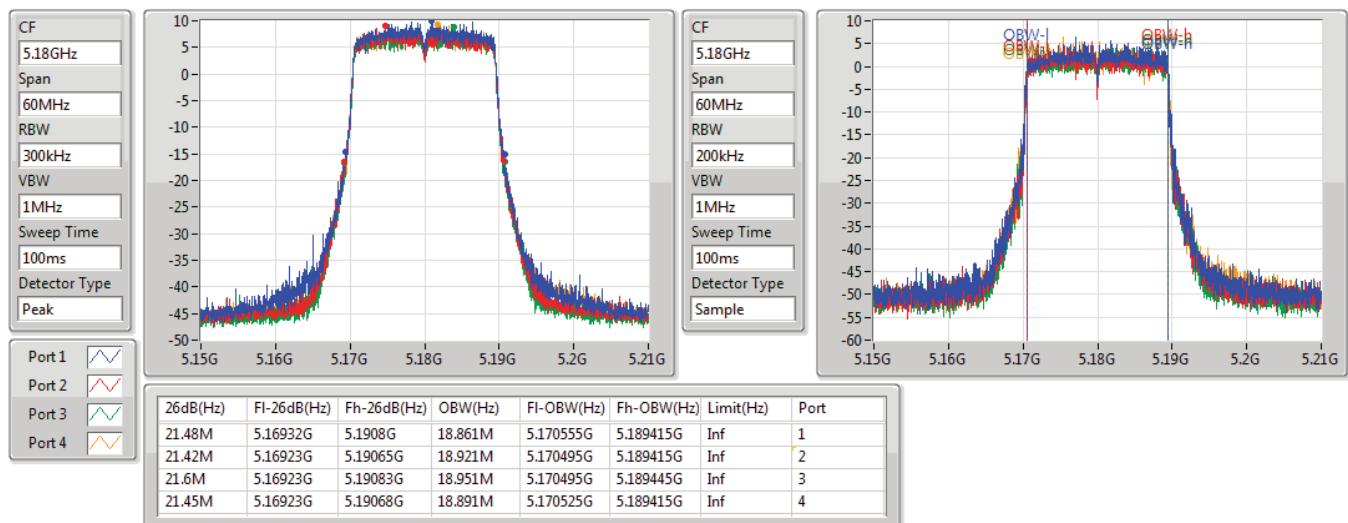

802.11ac VHT80_Nss1,(MCS0)_4TX
EBW
5775MHz

21/06/2019

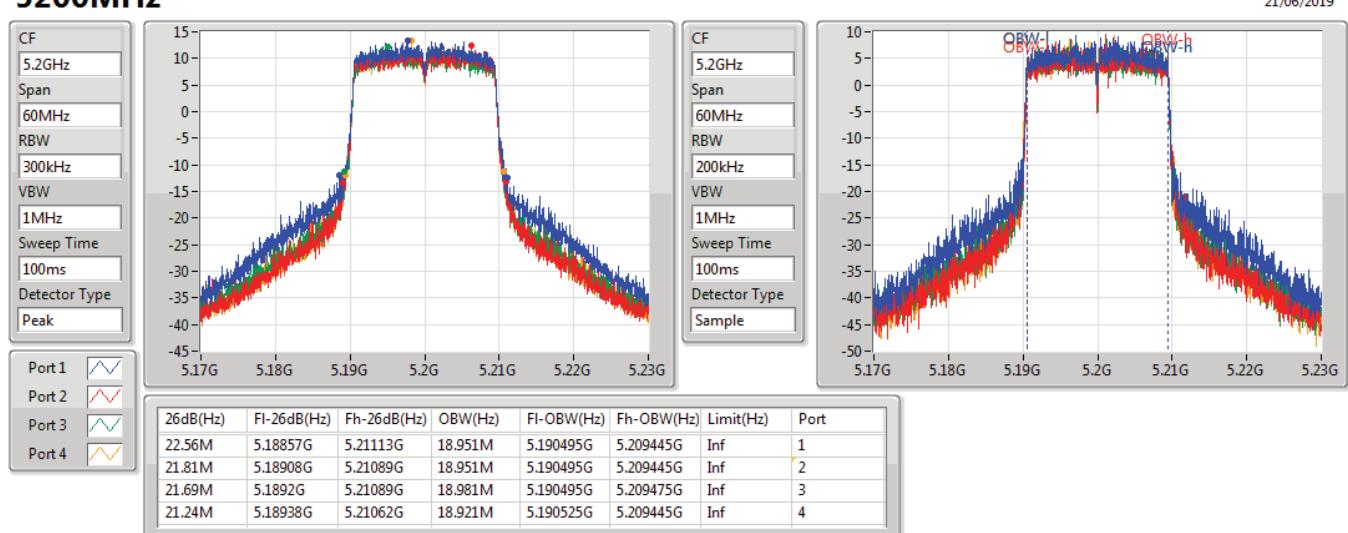


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5180MHz

21/06/2019

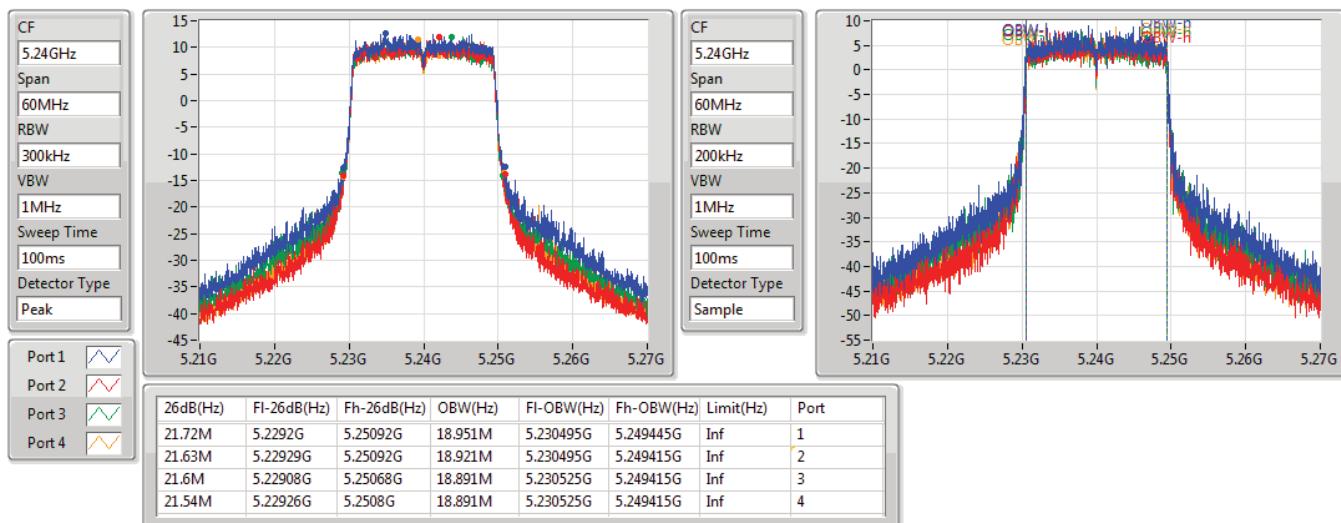

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5200MHz

21/06/2019

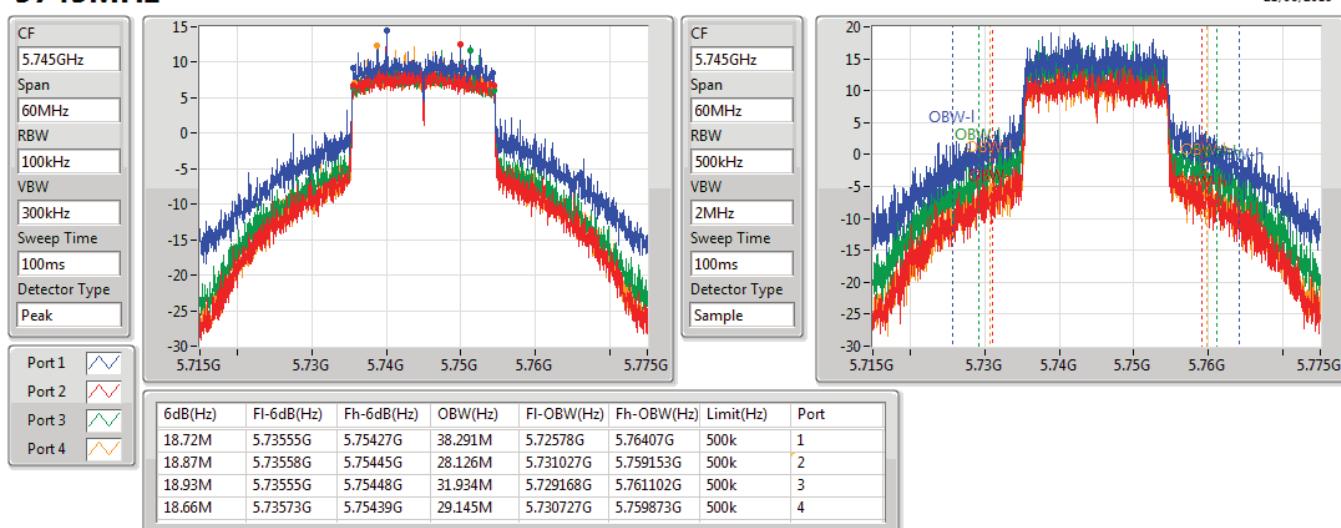


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5240MHz

21/06/2019

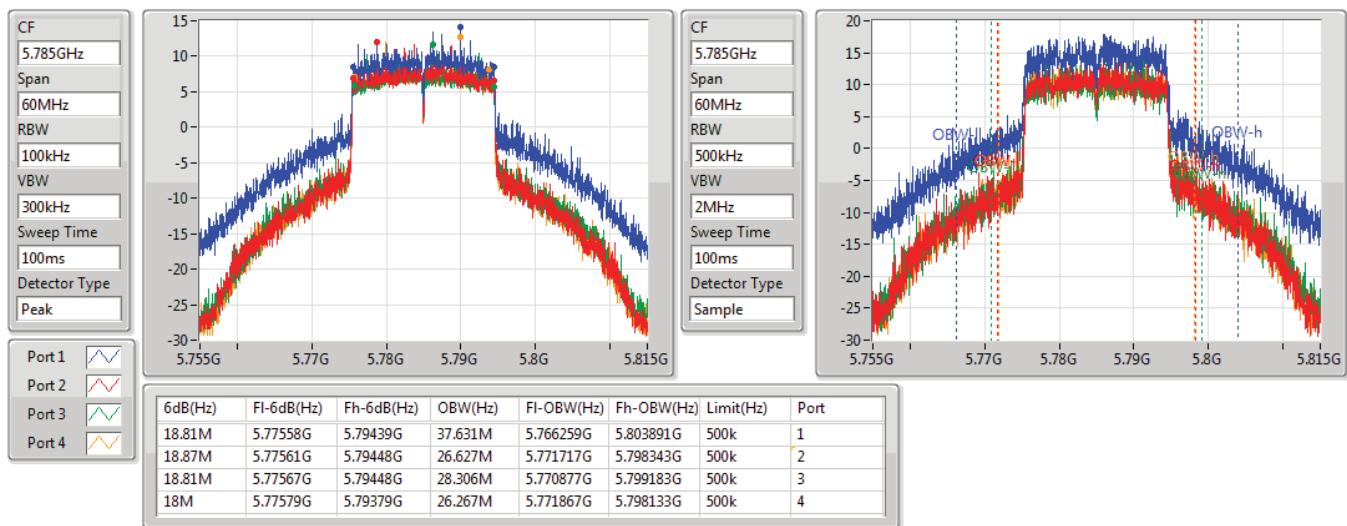

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5745MHz

21/06/2019

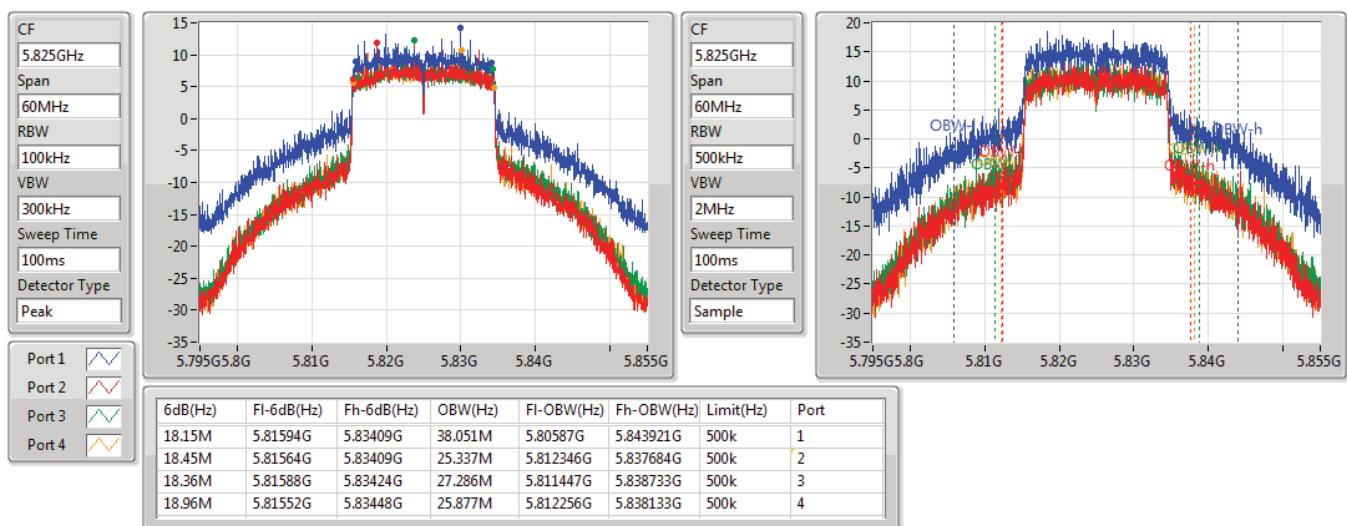


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5785MHz

21/06/2019

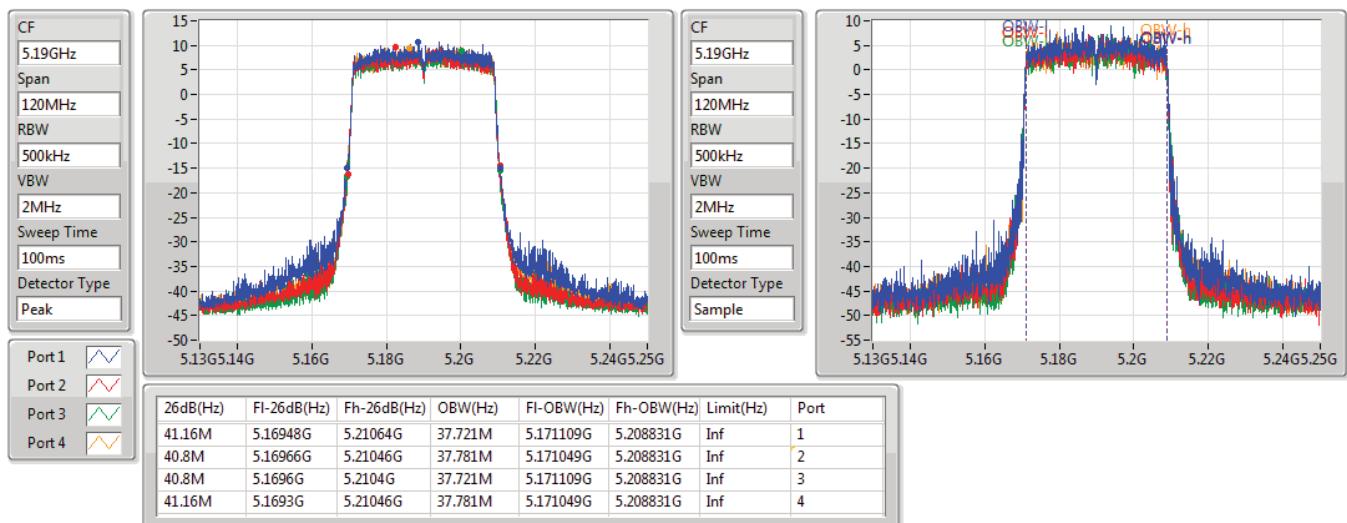

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5825MHz

21/06/2019

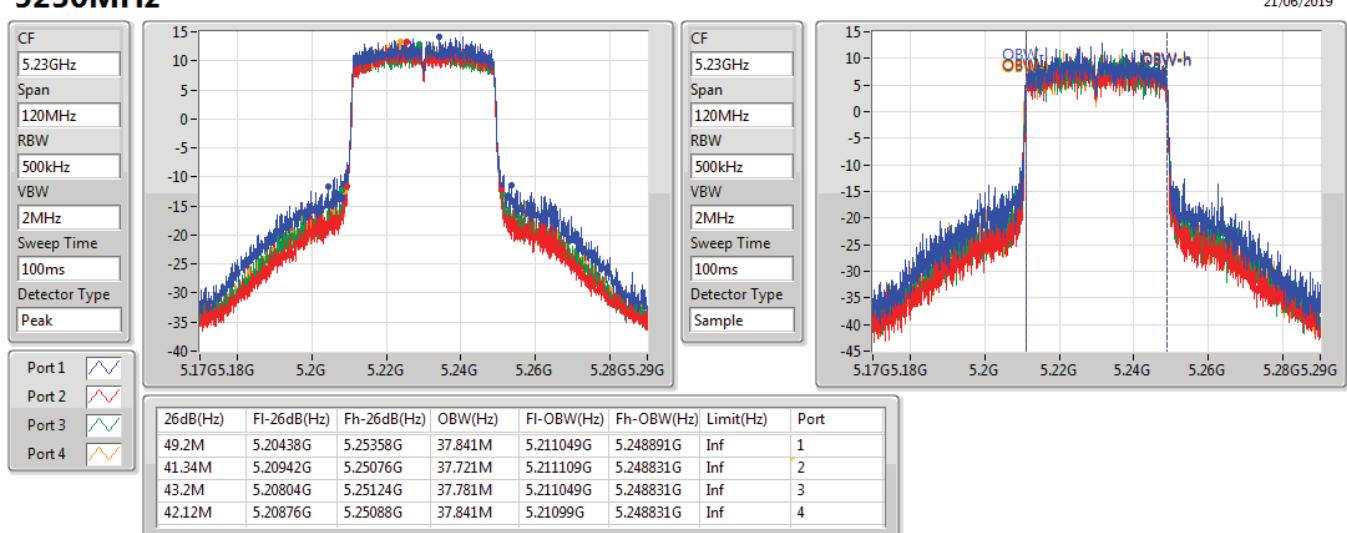


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5190MHz

21/06/2019

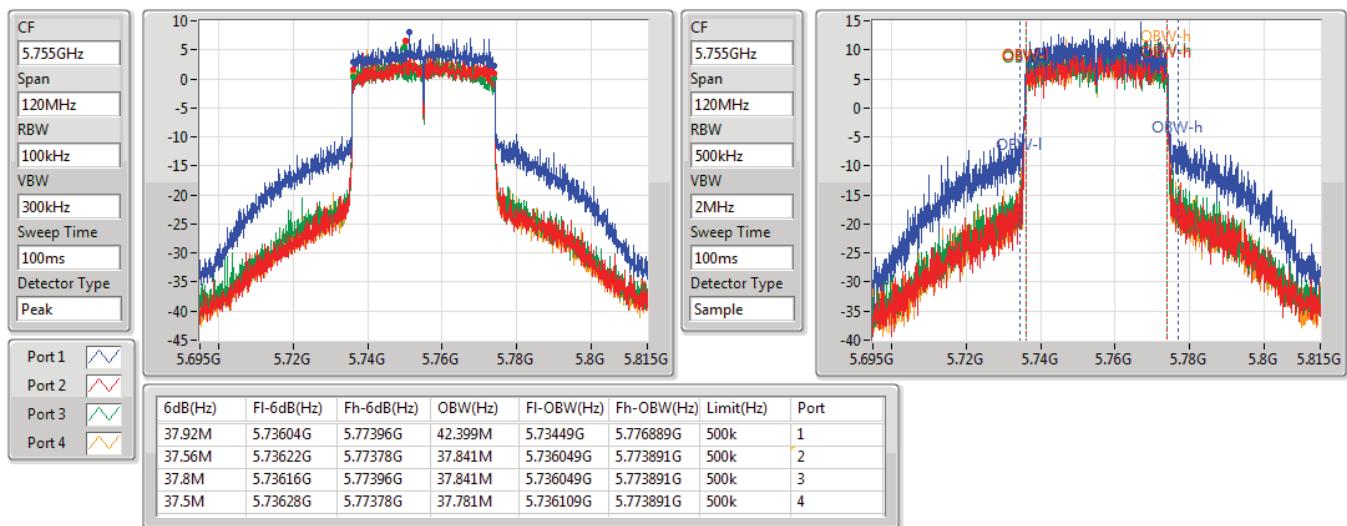

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5230MHz

21/06/2019

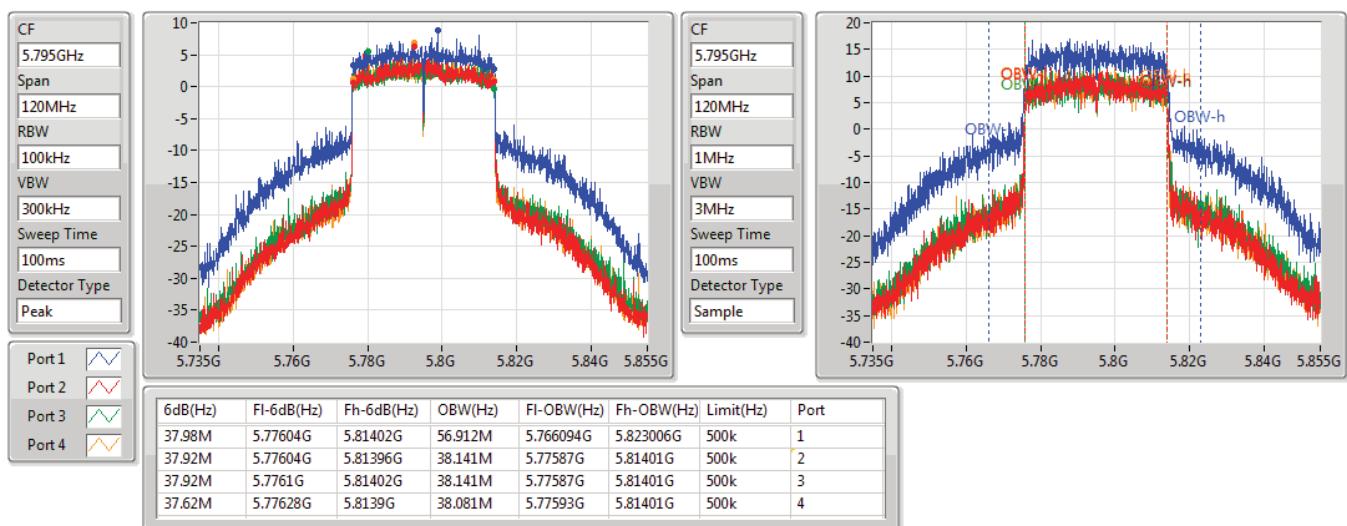


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5755MHz

21/06/2019

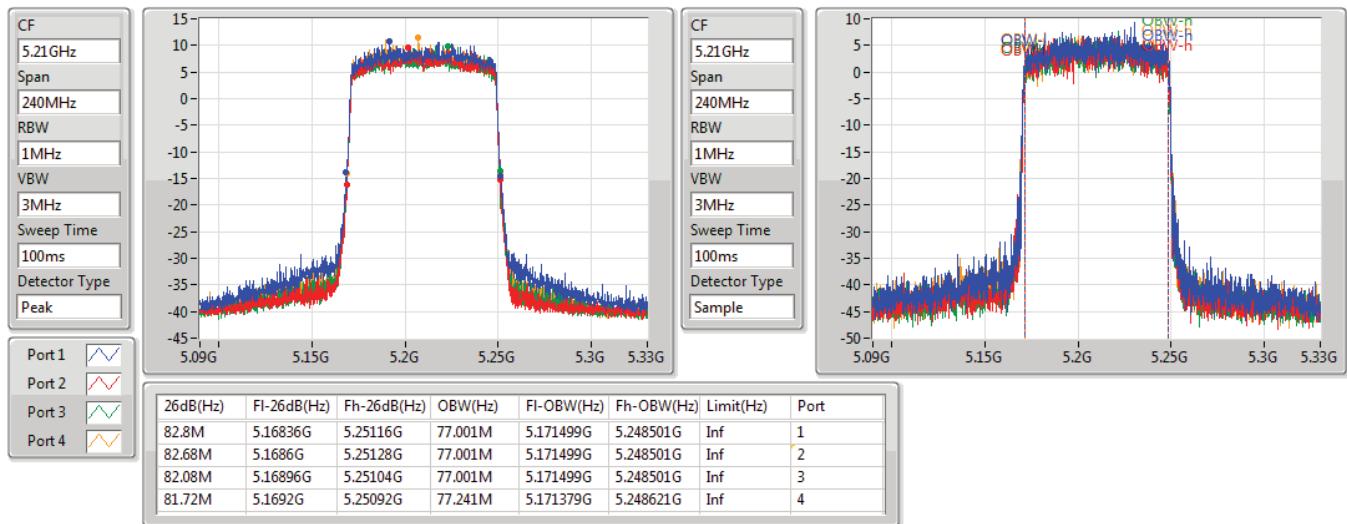

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5795MHz

21/06/2019

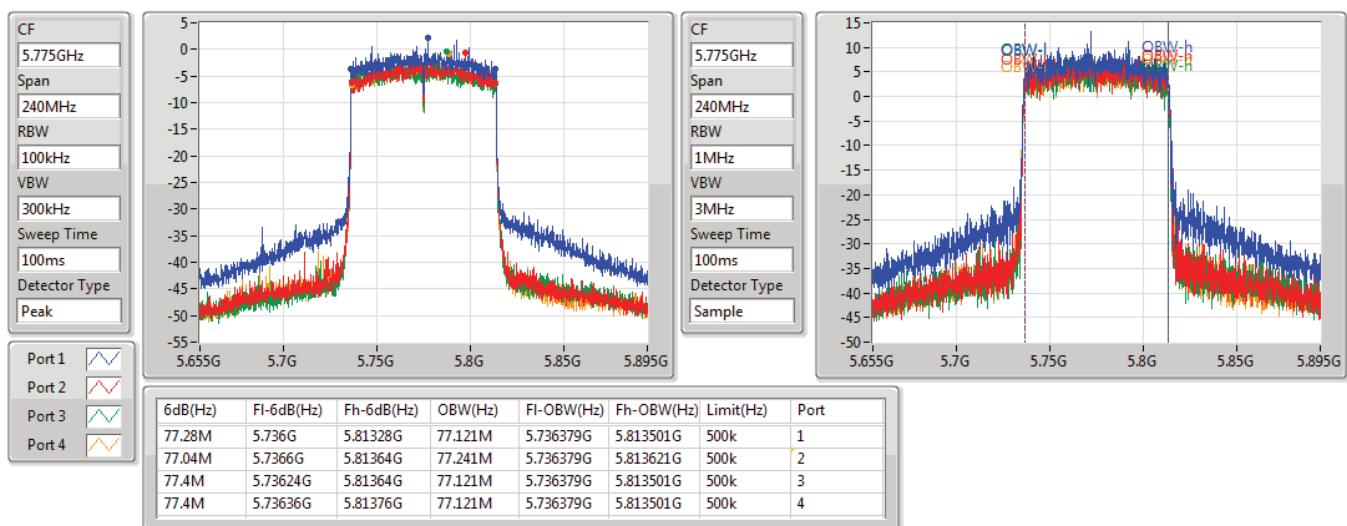


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5210MHz

21/06/2019


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5775MHz

21/06/2019





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)_8TX	19.29M	16.402M	16M4D1D	18.81M	16.312M
802.11ac VHT20_Nss1,(MCS0)_8TX	21M	17.661M	17M7D1D	19.89M	17.511M
802.11ac VHT40_Nss1,(MCS0)_8TX	40.8M	36.222M	36M2D1D	39.78M	36.042M
802.11ac VHT80_Nss1,(MCS0)_8TX	81.96M	75.682M	75M7D1D	81.24M	75.202M
802.11ax HEW20_Nss1,(MCS0)_8TX	21.63M	18.951M	19M0D1D	20.94M	18.861M
802.11ax HEW40_Nss1,(MCS0)_8TX	41.34M	37.841M	37M8D1D	40.62M	37.601M
802.11ax HEW80_Nss1,(MCS0)_8TX	82.44M	77.361M	77M4D1D	81.96M	76.882M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	16.35M	16.642M	16M6D1D	15.93M	16.372M
802.11ac VHT20_Nss1,(MCS0)_8TX	17.55M	17.781M	17M8D1D	13.8M	17.541M
802.11ac VHT40_Nss1,(MCS0)_8TX	36.36M	47.076M	47M1D1D	35.28M	36.102M
802.11ac VHT80_Nss1,(MCS0)_8TX	75.72M	75.562M	75M6D1D	74.04M	75.322M
802.11ax HEW20_Nss1,(MCS0)_8TX	18.99M	19.04M	19M0D1D	17.79M	18.861M
802.11ax HEW40_Nss1,(MCS0)_8TX	37.92M	45.817M	45M8D1D	37.08M	37.781M
802.11ax HEW80_Nss1,(MCS0)_8TX	77.76M	77.241M	77M2D1D	72.36M	77.001M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Max-OBW** = Maximum 99% occupied bandwidth;

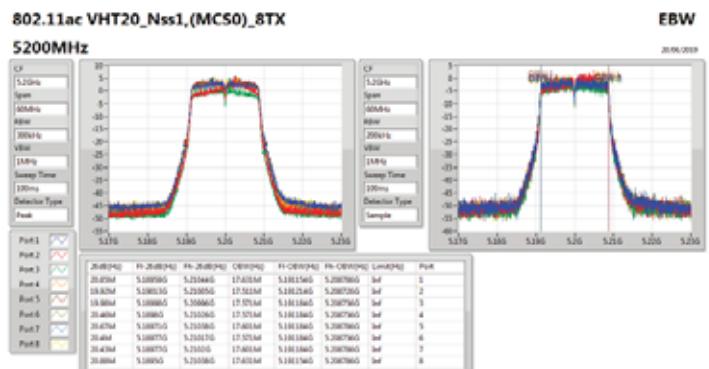
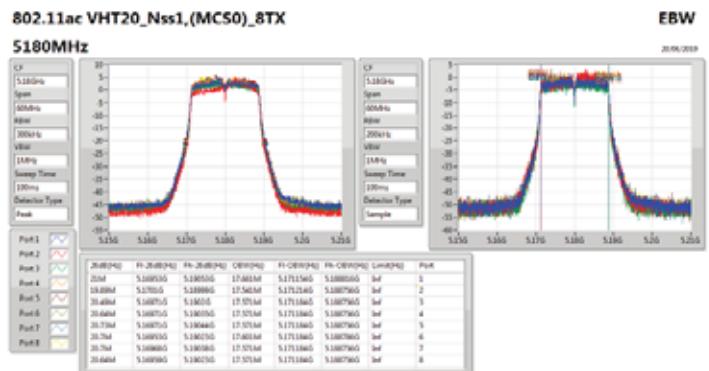
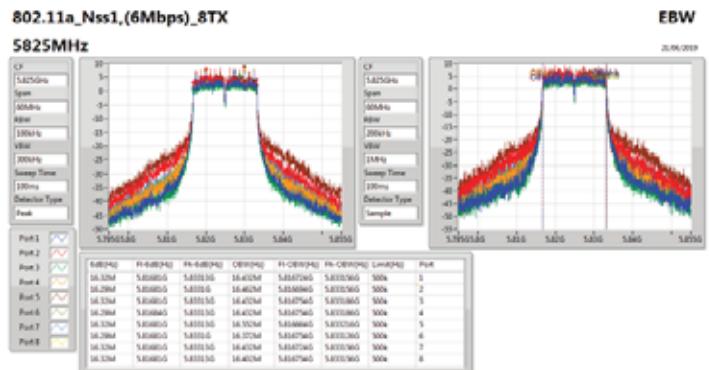
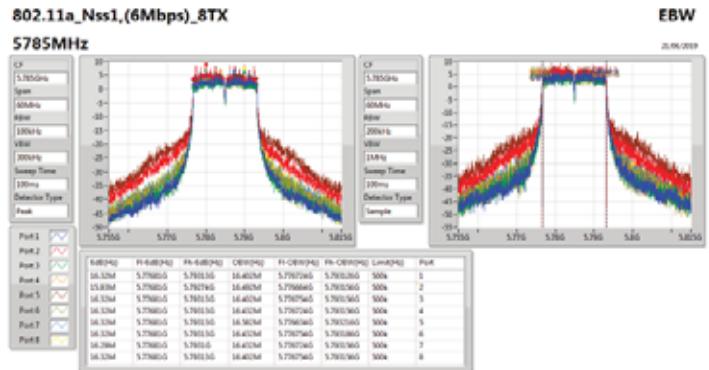
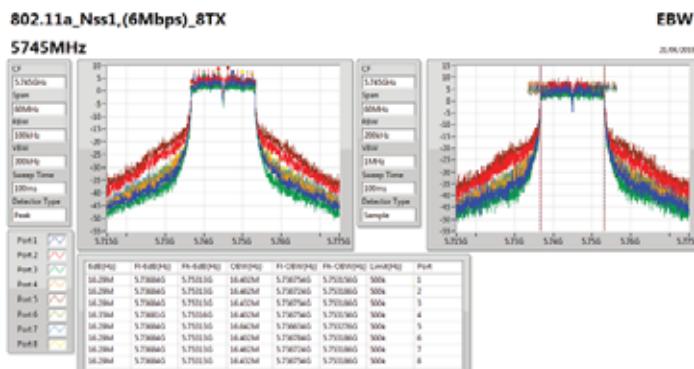
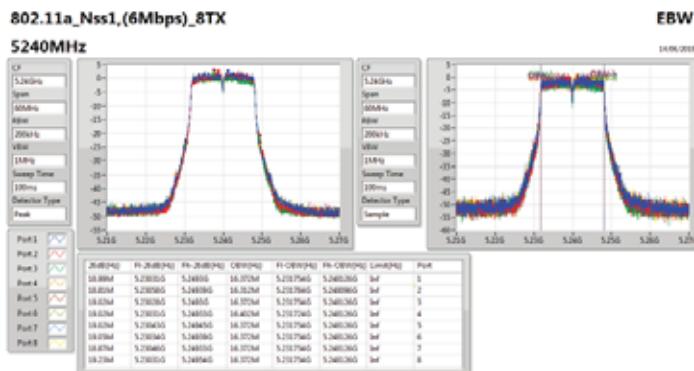
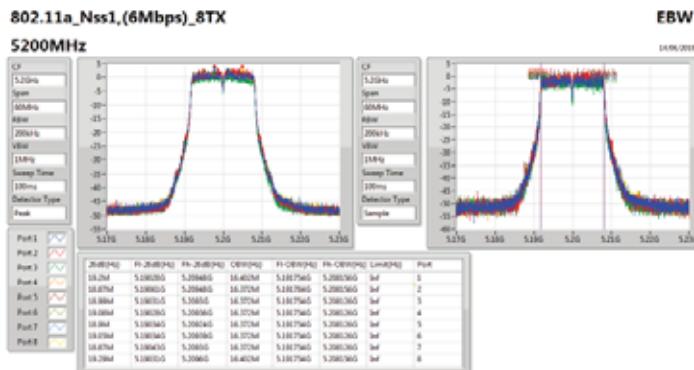
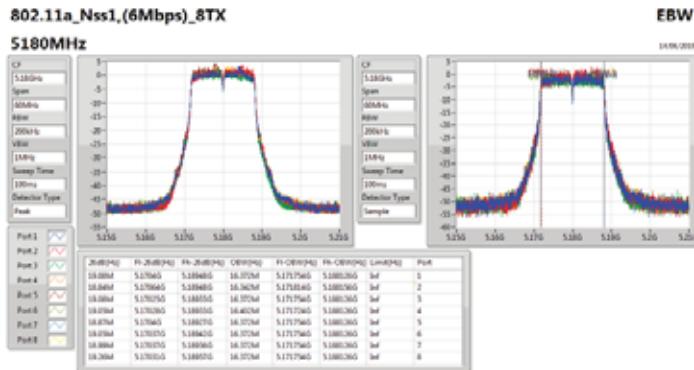
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Min-OBW** = Minimum 99% occupied bandwidth;



Result

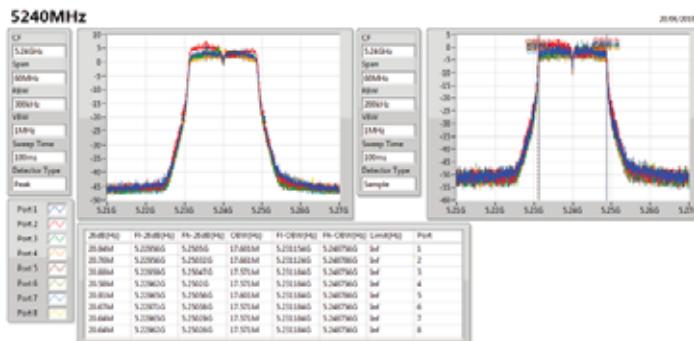
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.08M	16.372M	18.84M	16.342M	19.08M	16.372M	19.05M	16.402M	18.87M	16.372M	19.05M	16.372M	18.99M	16.372M	19.26M	16.372M
5200MHz	Pass	Inf	19.2M	16.402M	18.87M	16.372M	18.99M	16.372M	19.08M	16.372M	18.9M	16.372M	19.05M	16.372M	18.87M	16.372M	19.29M	16.402M
5240MHz	Pass	Inf	18.99M	16.372M	18.81M	16.312M	19.02M	16.372M	19.02M	16.402M	19.02M	16.372M	19.05M	16.372M	18.87M	16.372M	19.23M	16.372M
5745MHz	Pass	500k	16.29M	16.402M	16.29M	16.462M	16.29M	16.432M	16.35M	16.402M	16.29M	16.642M	16.29M	16.402M	16.29M	16.462M	16.29M	16.432M
5785MHz	Pass	500k	16.32M	16.402M	15.93M	16.492M	16.32M	16.402M	16.32M	16.432M	16.32M	16.582M	16.32M	16.432M	16.29M	16.432M	16.32M	16.402M
5825MHz	Pass	500k	16.32M	16.432M	16.29M	16.462M	16.32M	16.432M	16.29M	16.432M	16.32M	16.552M	16.29M	16.372M	16.32M	16.432M	16.32M	16.402M
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21M	17.661M	19.89M	17.541M	20.49M	17.571M	20.64M	17.571M	20.73M	17.571M	20.7M	17.601M	20.7M	17.571M	20.64M	17.571M
5200MHz	Pass	Inf	20.85M	17.631M	19.92M	17.511M	19.98M	17.571M	20.46M	17.571M	20.67M	17.601M	20.4M	17.571M	20.43M	17.601M	20.88M	17.631M
5240MHz	Pass	Inf	20.94M	17.601M	20.76M	17.661M	20.88M	17.571M	20.58M	17.571M	20.91M	17.601M	20.67M	17.571M	20.64M	17.571M	20.64M	17.571M
5745MHz	Pass	500k	17.28M	17.571M	17.16M	17.631M	17.52M	17.601M	17.55M	17.601M	17.04M	17.751M	17.55M	17.571M	17.55M	17.661M	17.55M	17.601M
5785MHz	Pass	500k	17.04M	17.571M	15.63M	17.541M	17.55M	17.631M	17.55M	17.601M	16.89M	17.721M	17.55M	17.631M	17.49M	17.631M	17.55M	17.601M
5825MHz	Pass	500k	17.13M	17.571M	13.8M	17.541M	17.55M	17.631M	17.52M	17.601M	17.55M	17.781M	17.55M	17.601M	17.52M	17.601M	17.49M	17.601M
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.32M	36.102M	40.38M	36.042M	40.5M	36.162M	39.78M	36.222M	40.32M	36.102M	39.78M	36.102M	40.5M	36.042M	40.44M	36.162M
5230MHz	Pass	Inf	40.8M	36.042M	40.38M	36.162M	40.62M	36.102M	40.08M	36.102M	40.26M	36.042M	39.96M	36.042M	40.26M	36.162M	40.32M	36.102M
5755MHz	Pass	500k	35.46M	36.162M	36.24M	36.522M	35.28M	36.162M	35.88M	36.162M	36.3M	41.199M	36.3M	36.222M	36.3M	36.282M	36M	36.222M
5795MHz	Pass	500k	36.36M	36.102M	35.76M	36.582M	36M	36.102M	36.3M	36.222M	36.3M	47.076M	36.3M	36.222M	36.06M	36.282M	36.3M	36.222M
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.84M	75.322M	81.72M	75.682M	81.96M	75.442M	81.72M	75.442M	81.6M	75.202M	81.6M	75.442M	81.24M	75.562M	81.96M	75.442M
5775MHz	Pass	500k	75.72M	75.562M	74.16M	75.322M	75.6M	75.322M	74.88M	75.442M	74.64M	75.562M	74.52M	75.442M	75M	75.562M	74.04M	75.322M
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.3M	18.891M	21.12M	18.951M	21.39M	18.951M	21.39M	18.951M	21.27M	18.951M	21.33M	18.921M	21.3M	18.921M	21.63M	18.951M
5200MHz	Pass	Inf	21.48M	18.921M	20.94M	18.951M	21.39M	18.921M	21.24M	18.891M	21.18M	18.891M	21.33M	18.891M	21.3M	18.921M	21.33M	18.891M
5240MHz	Pass	Inf	21.36M	18.921M	21.42M	18.951M	21.3M	18.891M	21.15M	18.891M	21.42M	18.861M	21.06M	18.891M	21.36M	18.891M	21.33M	18.891M
5745MHz	Pass	500k	18.78M	18.921M	17.79M	19.04M	18.99M	18.951M	18.75M	18.921M	18.54M	19.04M	18.48M	18.921M	18.54M	18.921M	18.63M	18.921M
5785MHz	Pass	500k	18.96M	18.921M	18.06M	18.921M	18.75M	18.891M	18.84M	18.921M	18.48M	19.01M	18.9M	18.951M	18.81M	18.951M	18.93M	18.951M
5825MHz	Pass	500k	18.9M	18.921M	18.54M	18.861M	18.9M	18.921M	18.78M	18.921M	18.84M	19.01M	18.81M	18.921M	18.96M	18.951M	18.93M	18.921M
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.22M	37.721M	40.68M	37.601M	41.04M	37.661M	40.86M	37.721M	41.16M	37.721M	40.98M	37.781M	40.62M	37.721M	40.68M	37.781M
5230MHz	Pass	Inf	41.22M	37.721M	41.16M	37.841M	40.92M	37.601M	40.86M	37.661M	40.74M	37.721M	41.34M	37.661M	41.1M	37.721M	41.1M	37.841M
5755MHz	Pass	500k	37.62M	37.781M	37.68M	38.081M	37.5M	37.781M	37.92M	37.841M	37.8M	41.679M	37.44M	37.781M	37.92M	37.781M	37.08M	37.841M
5795MHz	Pass	500k	37.74M	37.781M	37.38M	38.081M	37.2M	37.781M	37.92M	37.841M	37.8M	45.817M	37.32M	37.901M	37.74M	37.961M	37.62M	37.841M
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.96M	76.882M	82.08M	77.001M	81.96M	77.121M	82.44M	77.241M	82.44M	77.361M	82.32M	76.882M	82.32M	77.121M	82.2M	77.121M
5775MHz	Pass	500k	75.72M	77.001M	72.36M	77.121M	77.64M	77.121M	76.92M	77.121M	76.68M	77.241M	76.44M	77.121M	74.88M	77.001M	77.76M	77.121M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

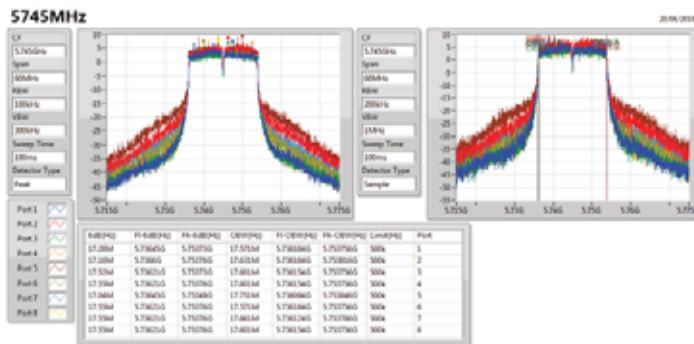




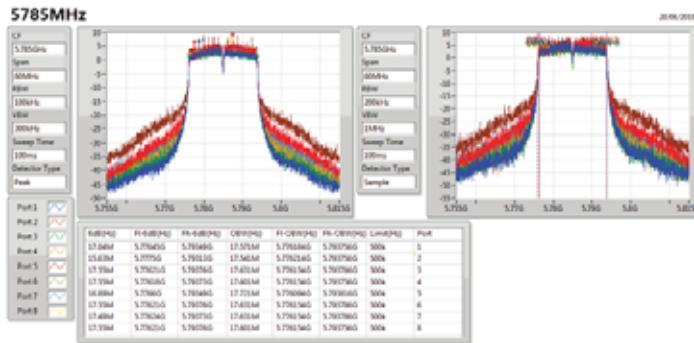
802.11ac VHT20_Nss1,(MCS0)_8TX



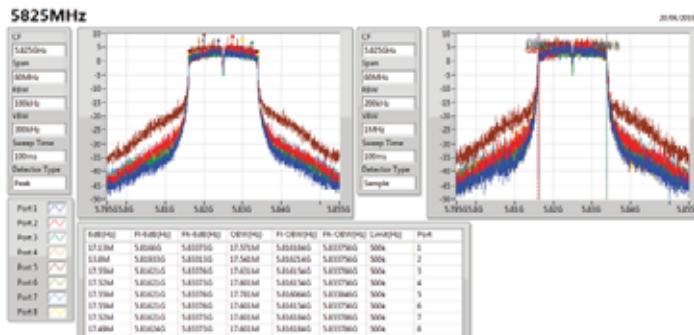
802.11ac VHT20_Nss1,(MCS0)_8TX



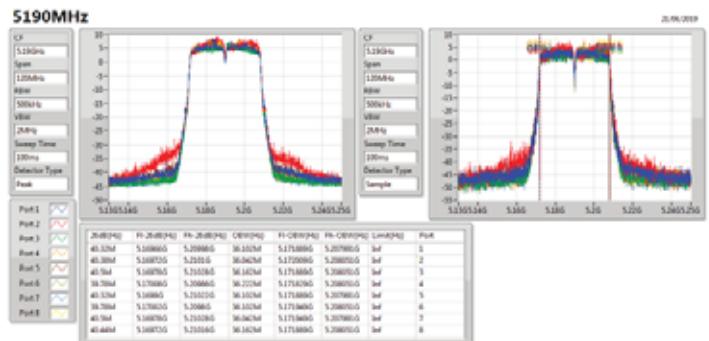
802.11ac VHT20_Nss1,(MCS0)_8TX



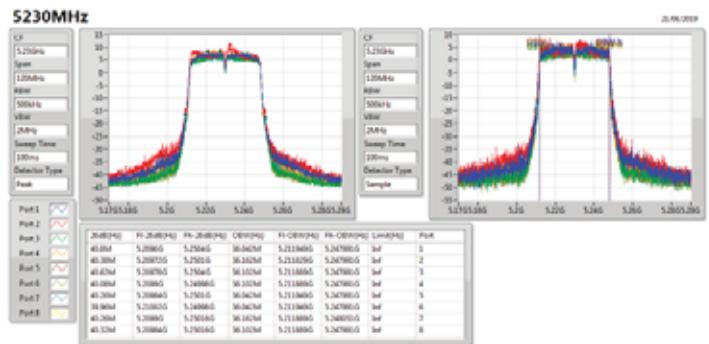
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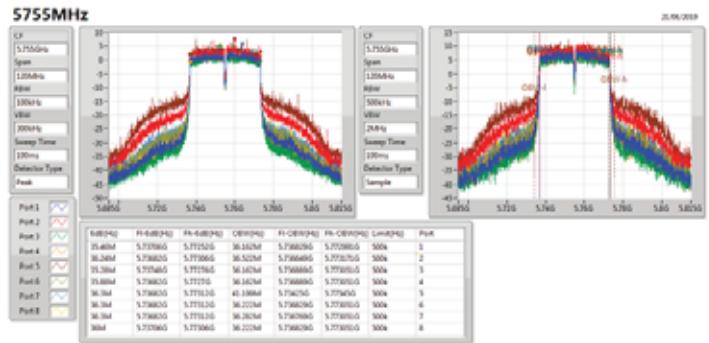
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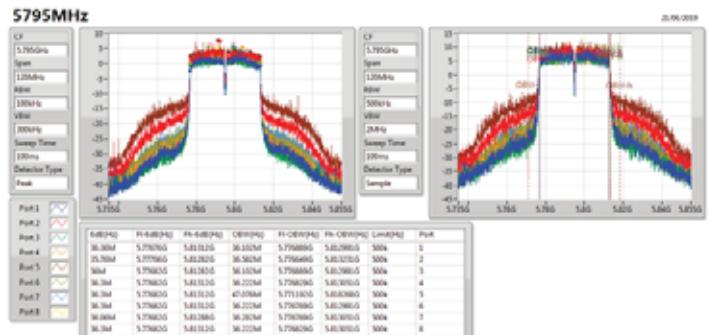
802.11ac VHT40_Nss1,(MCS0)_8TX



802.11ac VHT40_Nss1,(MCS0)_STX

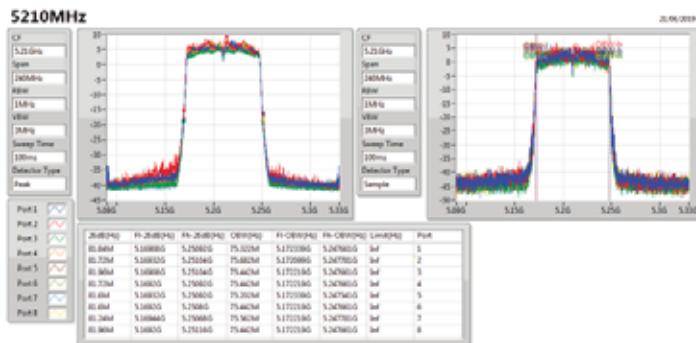


802.11ac VHT40_Nss1,(MCS0)_8TX

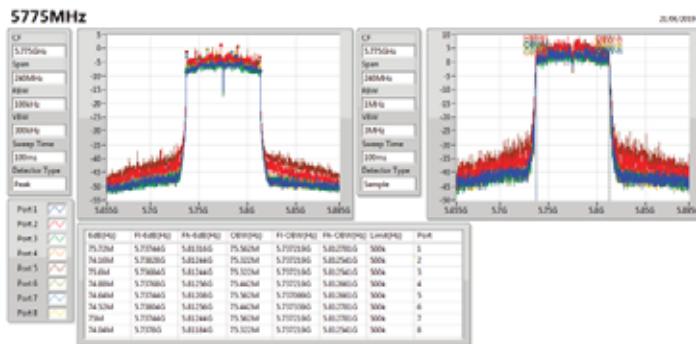




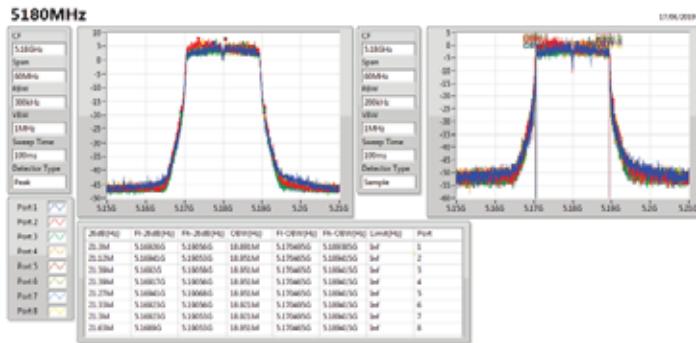
802.11ac VHT80_Nss1,(MCS0)_8TX



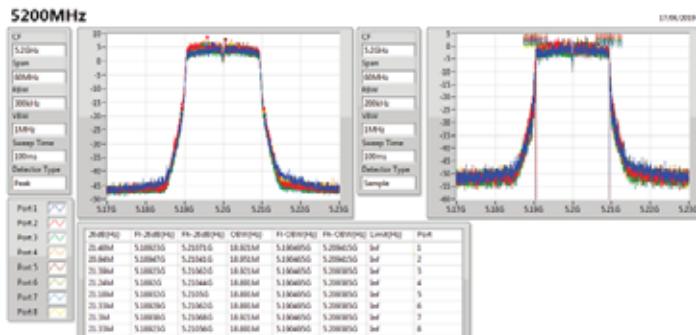
802.11ac VHT80_Nss1,(MCS0)_8TX



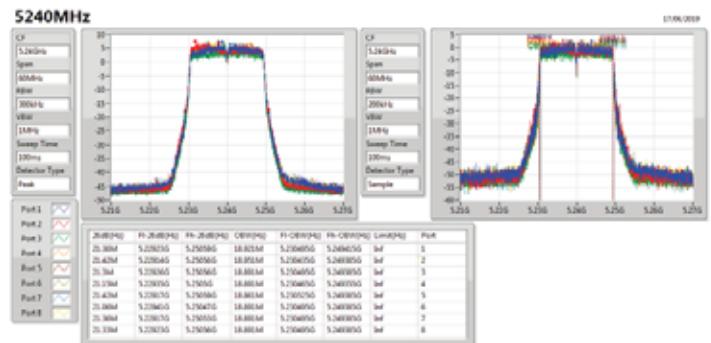
802.11ax HEW20_Nss1,(MCS0)_8TX



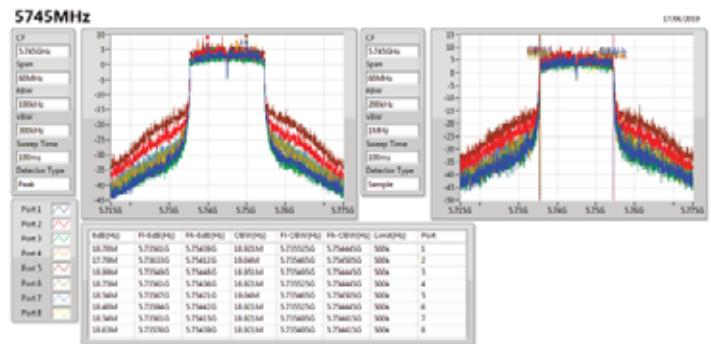
802.11ax HEW20_Nss1,(MCS0)_8TX



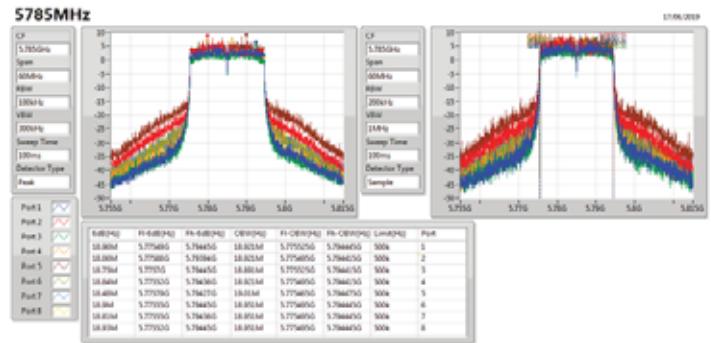
802.11ax HEW20_Nss1,(MCS0)_8Tx



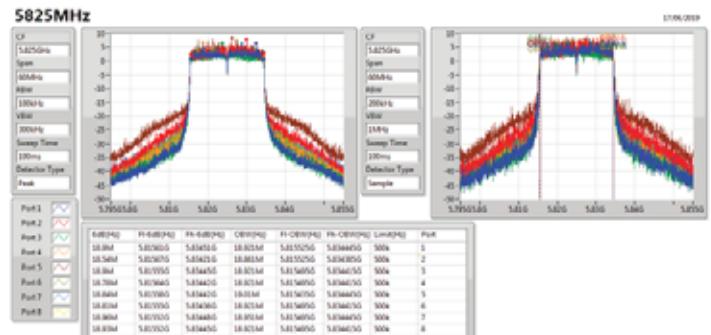
802.11ax HEW20_Nss1,(MCS0)_8TX

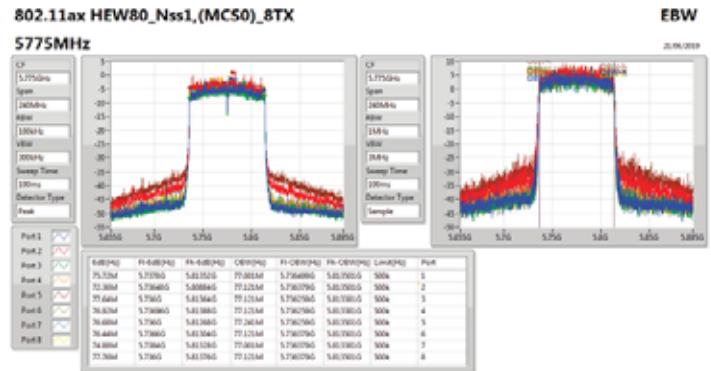
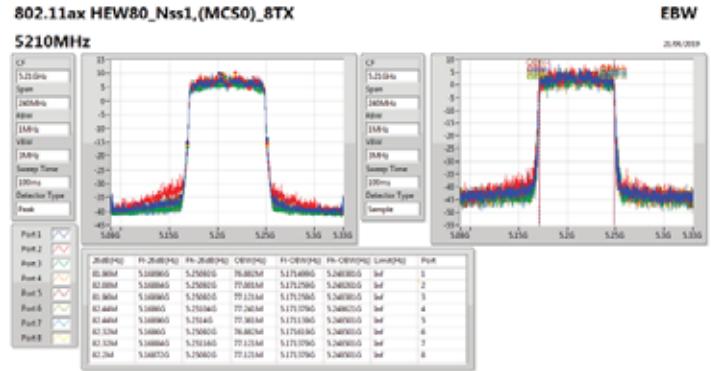
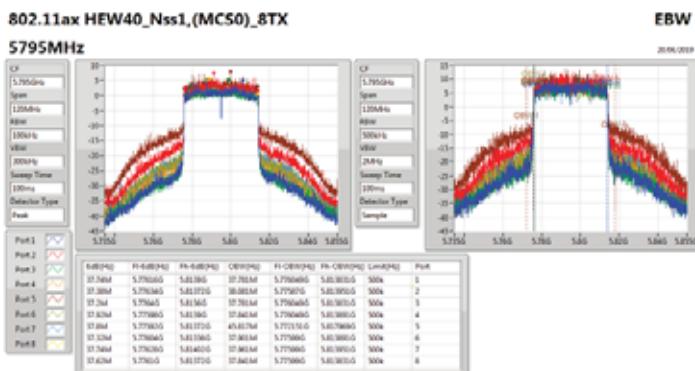
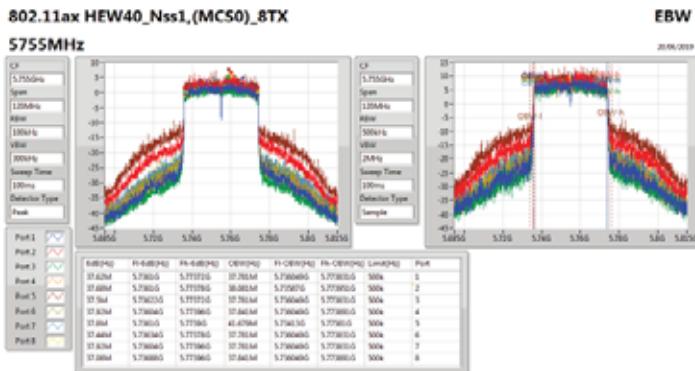
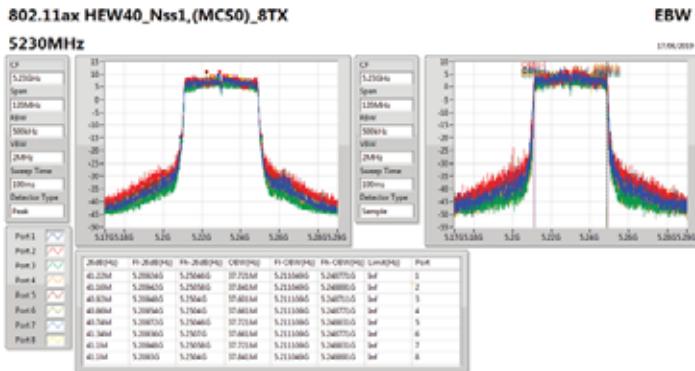
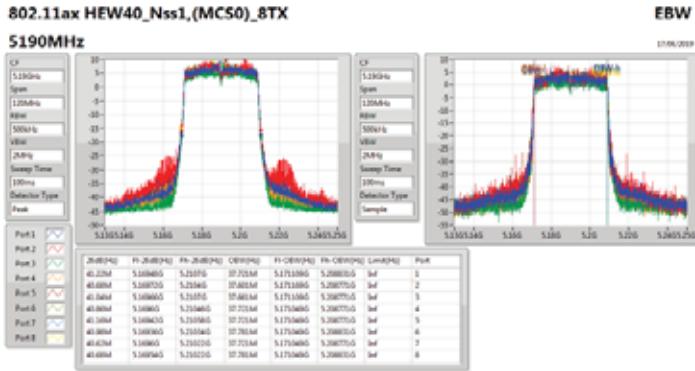


802.11ax HEW20_Nss1,(MC50)_8TX



802.11ax HEW20_Nss1,(MCS0)_8TX





**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	40.62M	21.379M	21M4D1D	25.35M	16.612M
802.11ac VHT20_Nss1,(MCS0)_2TX	45.24M	21.439M	21M4D1D	29.55M	17.841M
802.11ac VHT40_Nss1,(MCS0)_2TX	75.06M	36.822M	36M8D1D	44.88M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	89.52M	75.922M	75M9D1D	88.68M	75.802M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.38M	19.52M	19M5D1D	3.06M	3.998M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.55M	17.991M	18M0D1D	3.7M	4.158M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	36.342M	36M3D1D	3.08M	6.257M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.12M	76.042M	76M0D1D	3.2M	19.39M

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

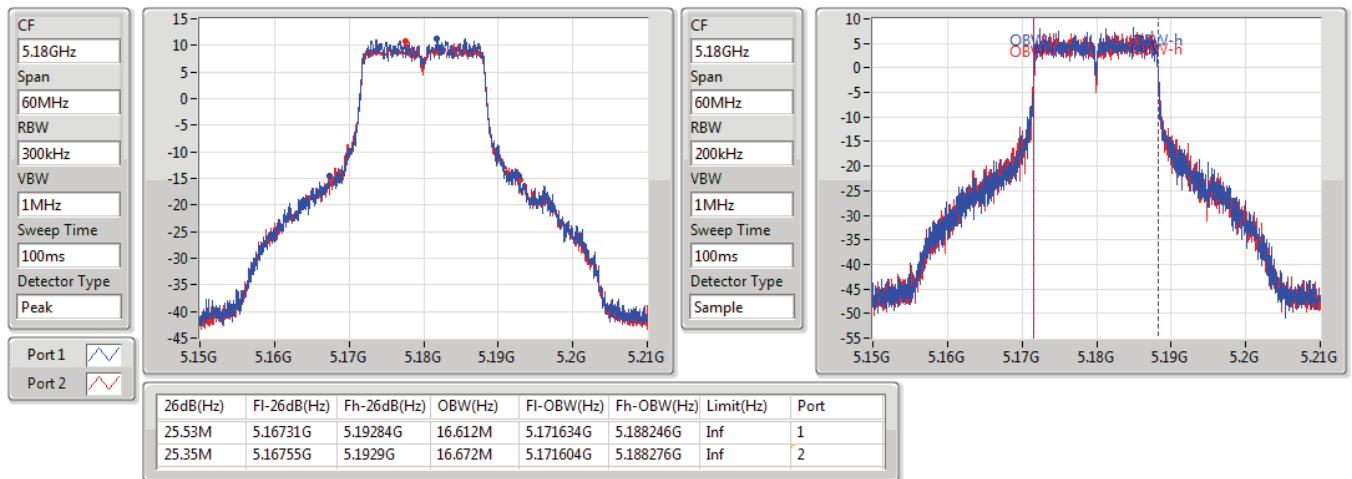
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	25.53M	16.612M	25.35M	16.672M
5200MHz_TnomVnom	Pass	Inf	38.13M	19.64M	40.62M	21.379M
5240MHz_TnomVnom	Pass	Inf	39.87M	18.171M	40.23M	19.97M
5745MHz_TnomVnom	Pass	500k	16.38M	16.582M	16.02M	16.612M
5785MHz_TnomVnom	Pass	500k	16.29M	17.631M	16.32M	19.52M
5825MHz_TnomVnom	Pass	500k	16.32M	16.492M	16.05M	16.462M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	32.16M	17.901M	29.55M	17.841M
5200MHz_TnomVnom	Pass	Inf	42.72M	19.91M	45.24M	21.439M
5240MHz_TnomVnom	Pass	Inf	40.41M	18.231M	43.35M	19.73M
5745MHz_TnomVnom	Pass	500k	17.55M	17.691M	17.31M	17.751M
5785MHz_TnomVnom	Pass	500k	17.55M	17.871M	17.31M	17.991M
5825MHz_TnomVnom	Pass	500k	16.92M	17.871M	17.01M	17.901M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	44.88M	36.222M	46.02M	36.222M
5230MHz_TnomVnom	Pass	Inf	65.04M	36.462M	75.06M	36.822M
5755MHz_TnomVnom	Pass	500k	36.06M	36.222M	36.06M	36.282M
5795MHz_TnomVnom	Pass	500k	36.3M	36.342M	35.76M	36.342M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	88.68M	75.922M	89.52M	75.802M
5775MHz_TnomVnom	Pass	500k	75.12M	75.802M	73.32M	76.042M

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

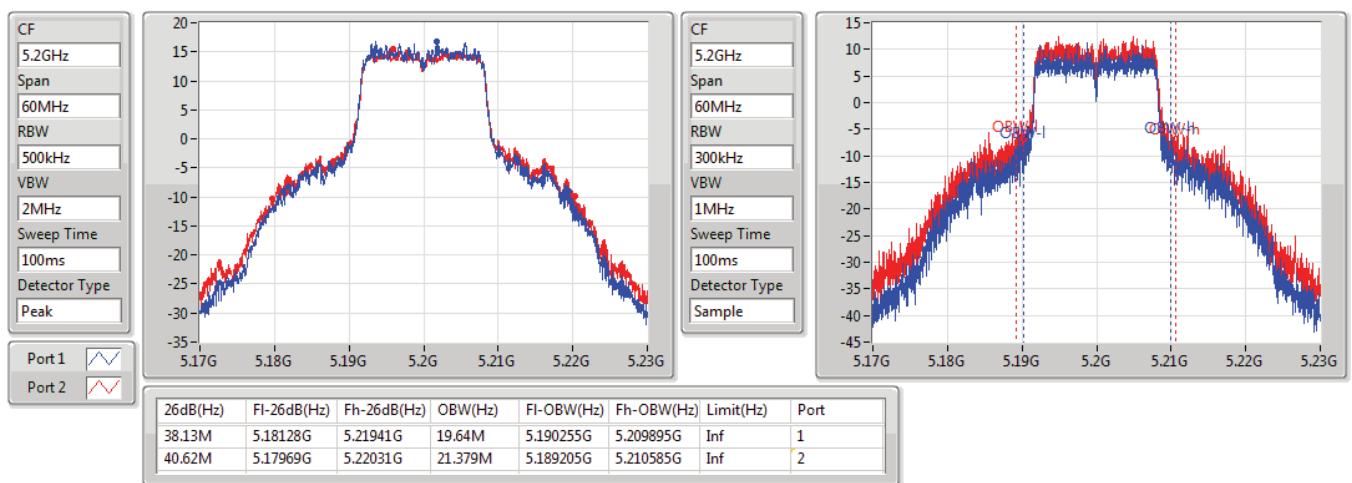
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

23/06/2019

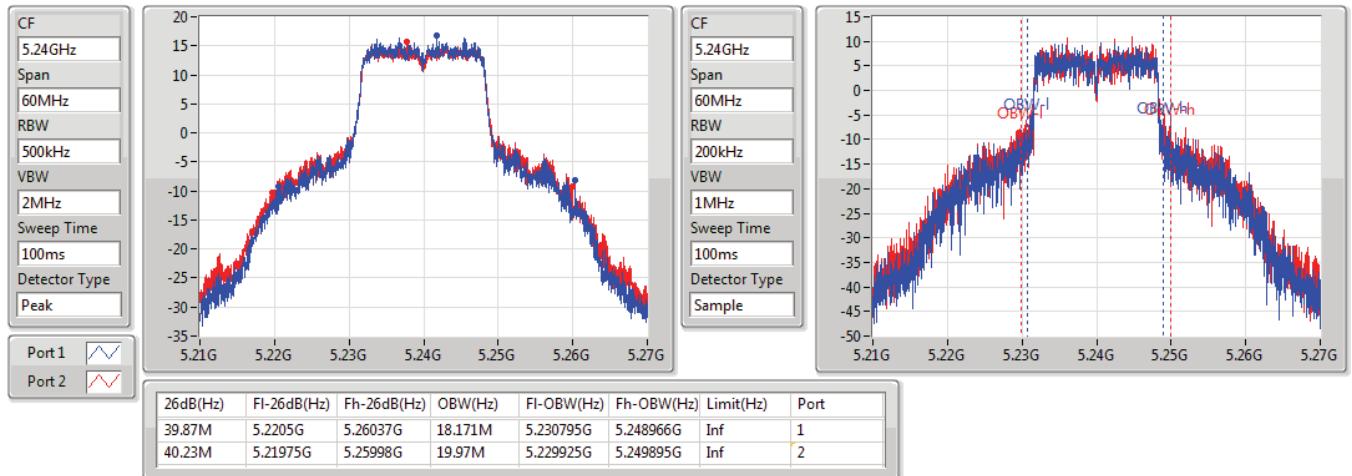

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

23/06/2019

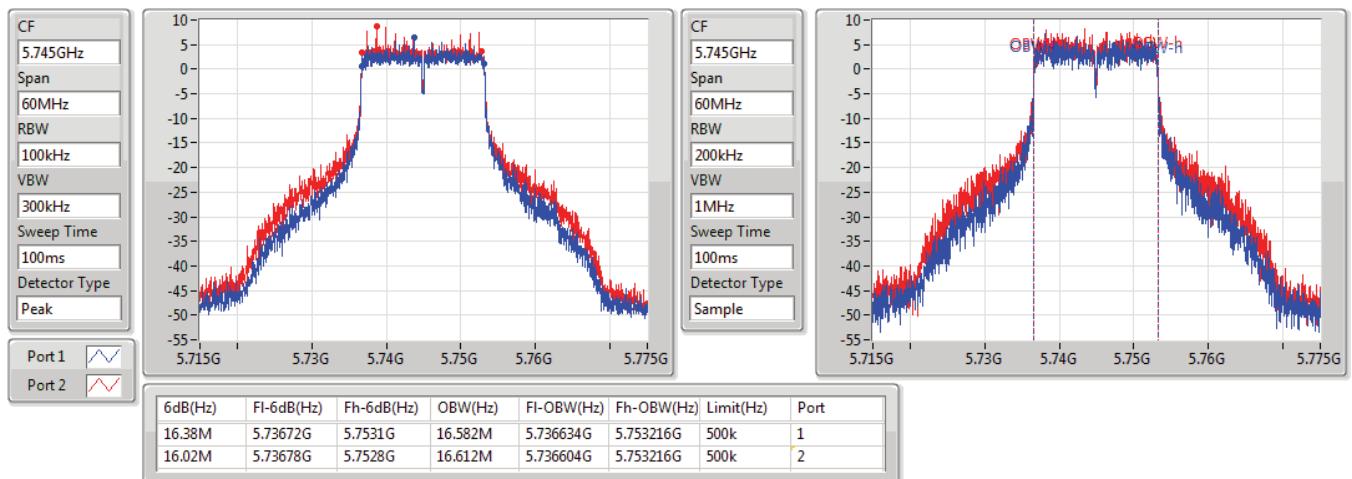


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

23/06/2019

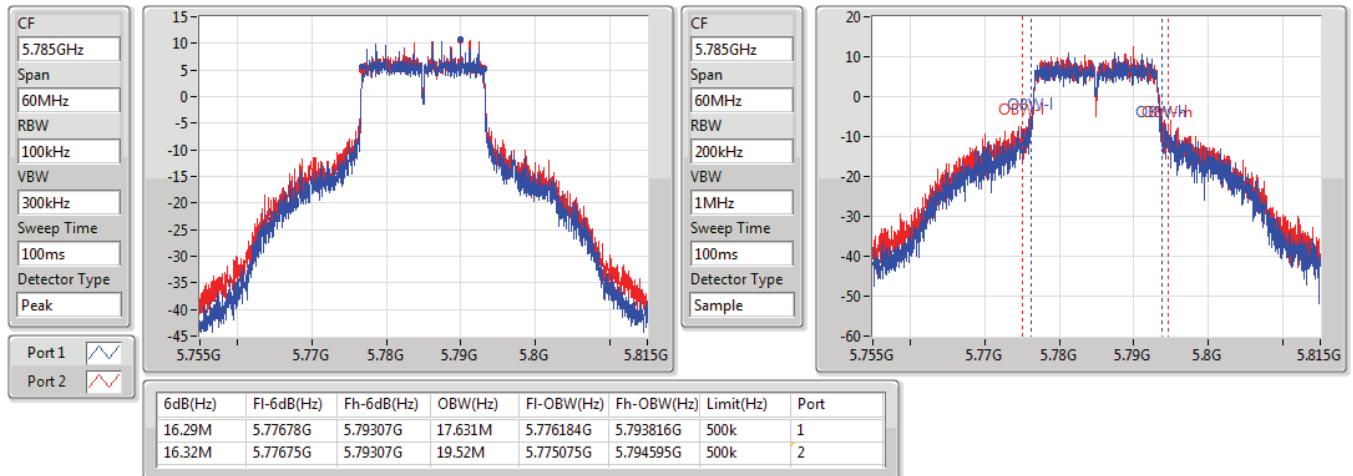

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

23/06/2019

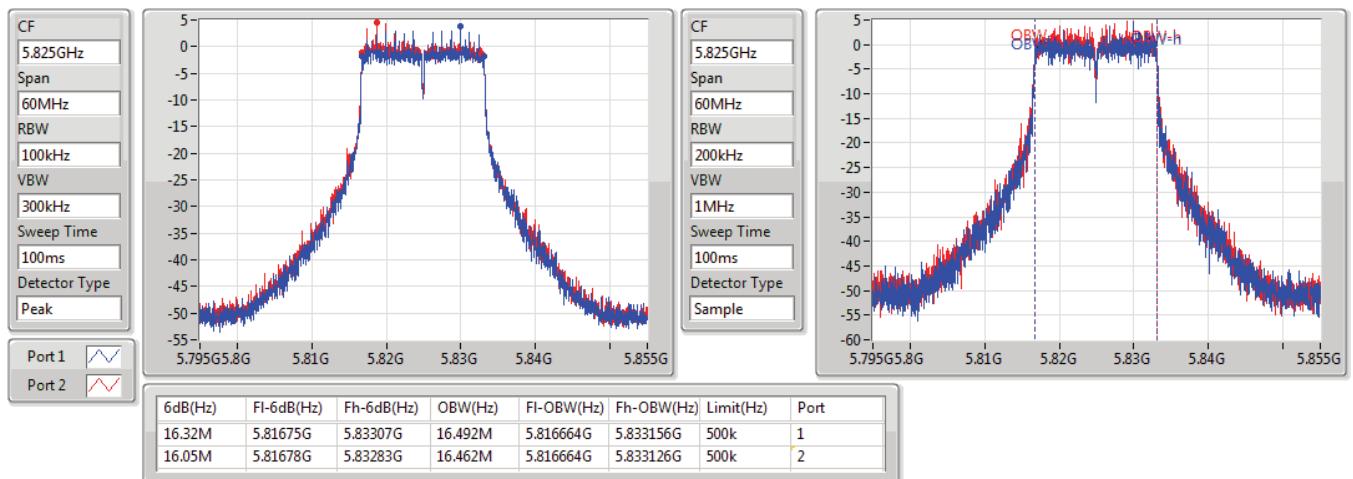


802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

23/06/2019

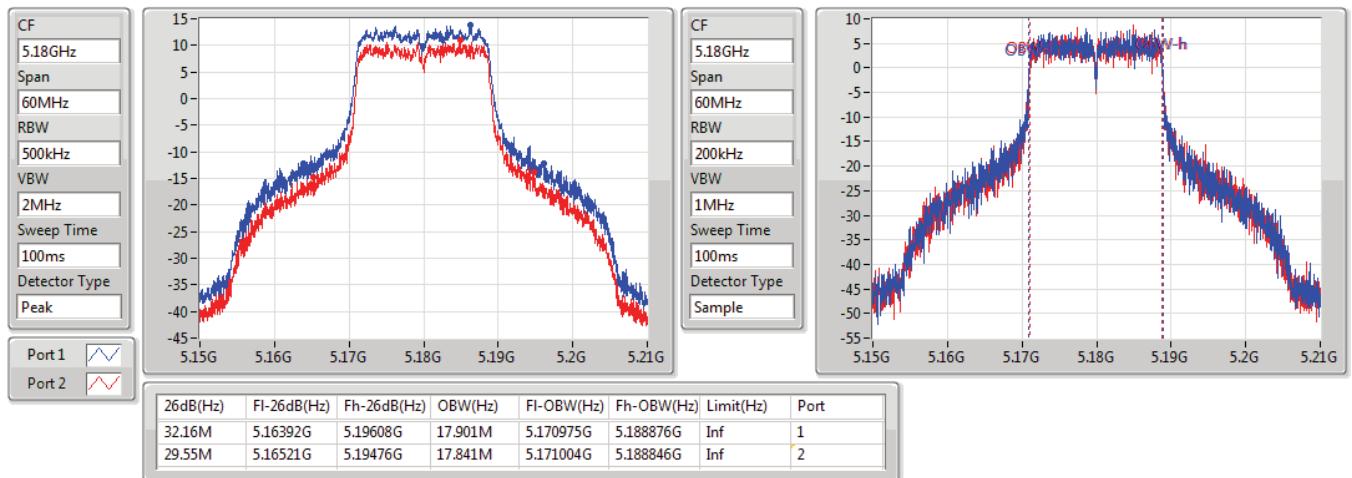

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

23/06/2019

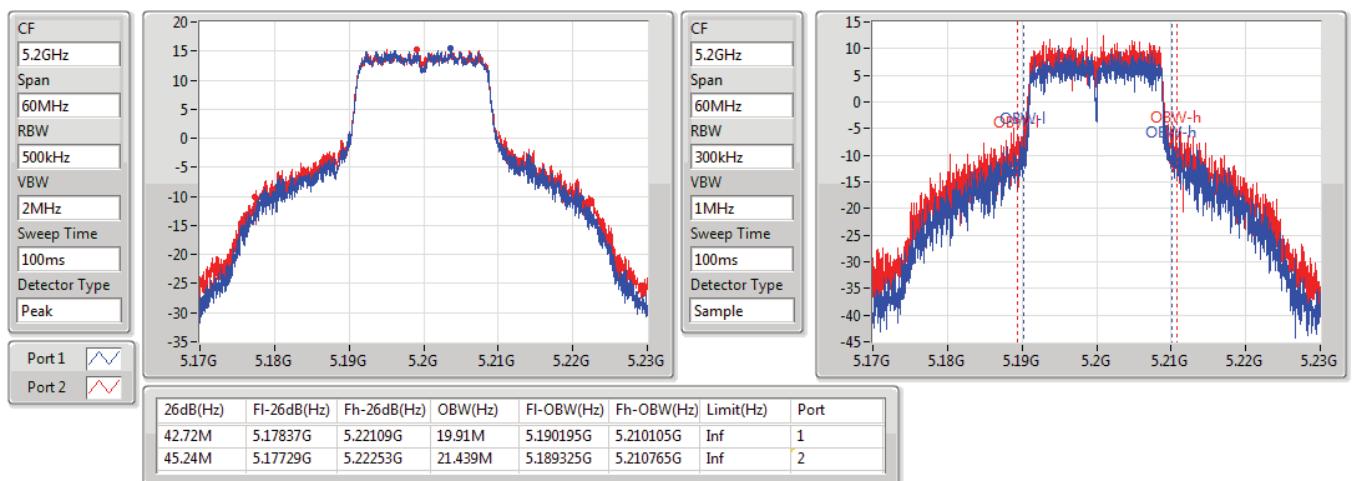


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

23/06/2019

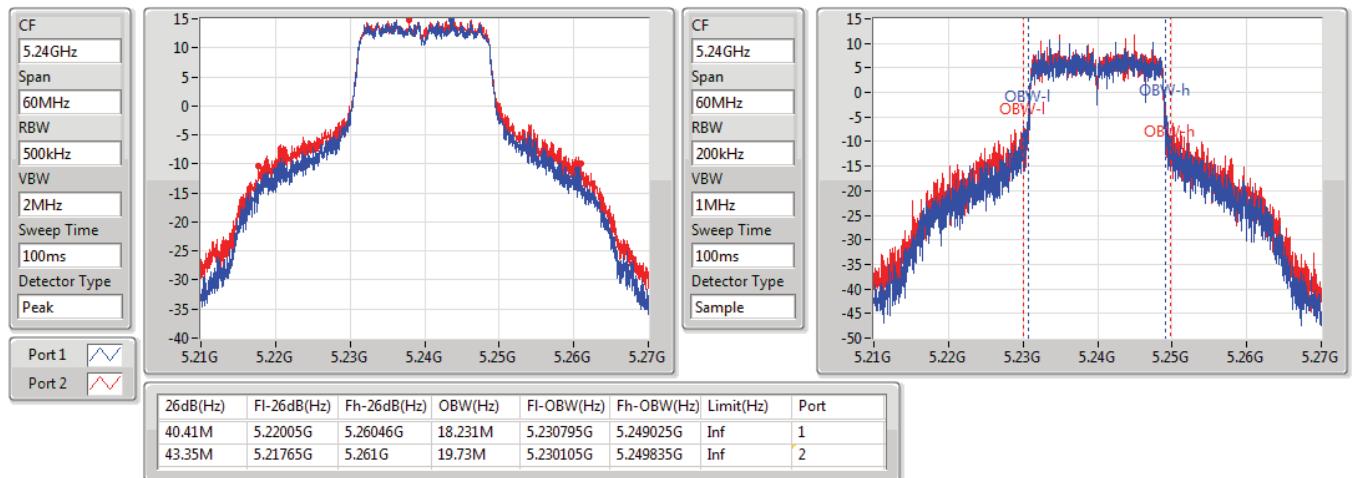

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

23/06/2019

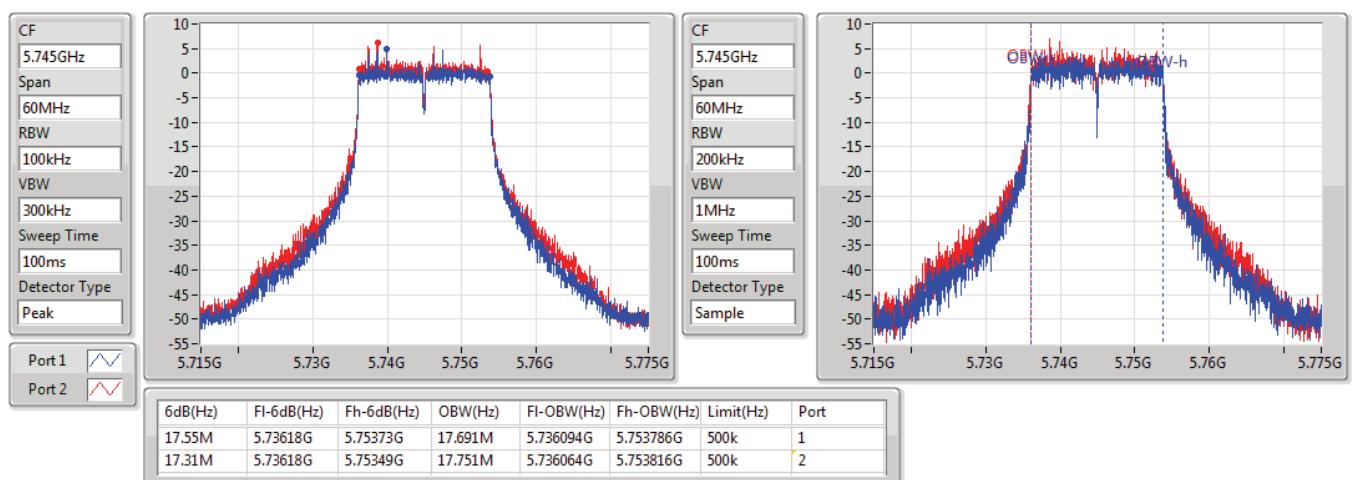


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5240MHz

23/06/2019

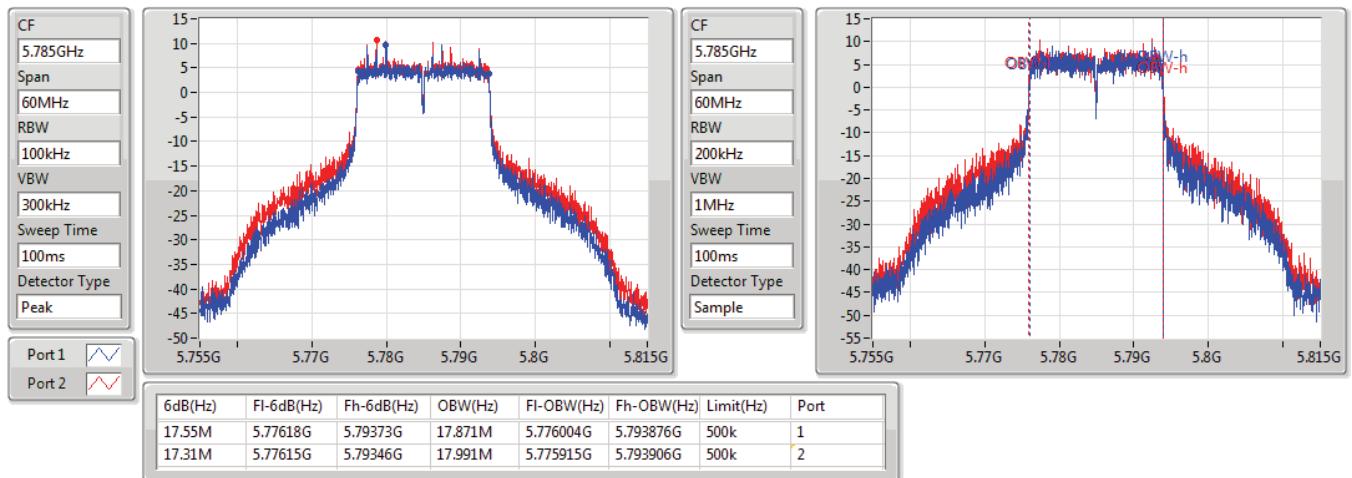

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

23/06/2019

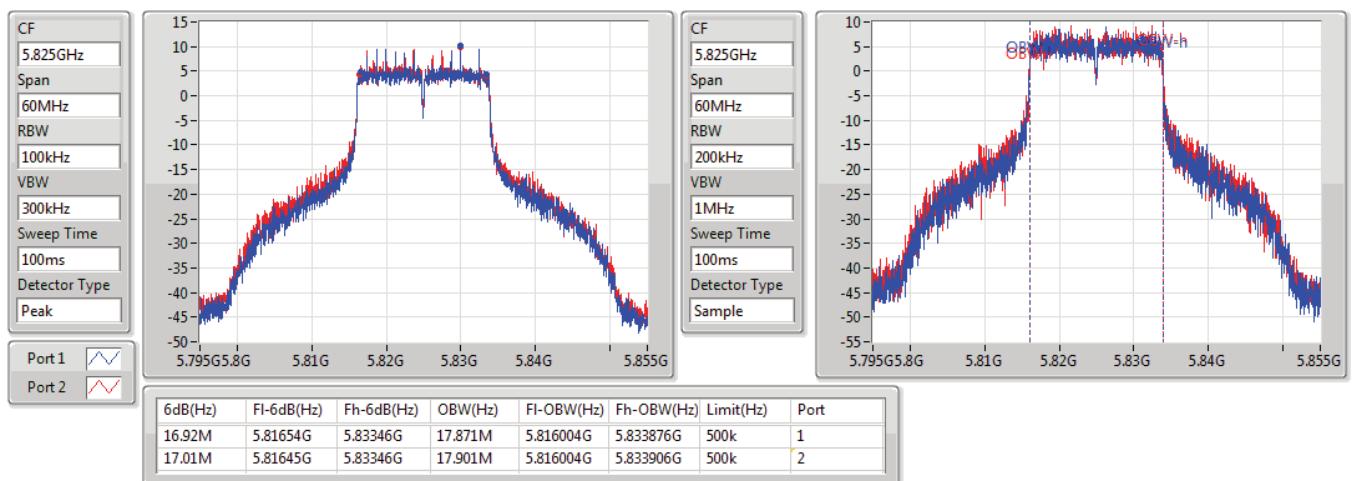


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

23/06/2019

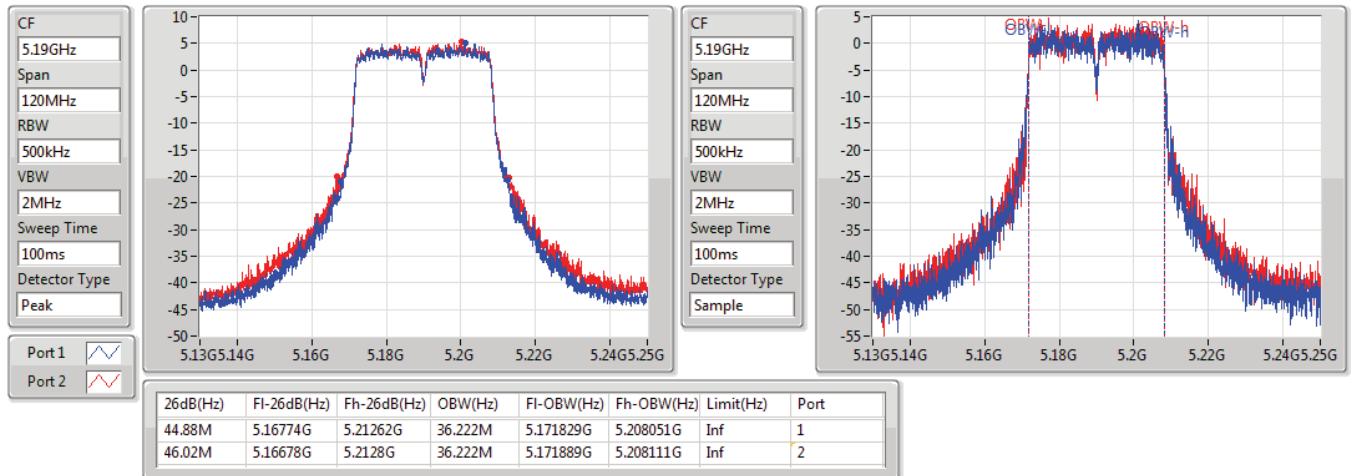

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

23/06/2019

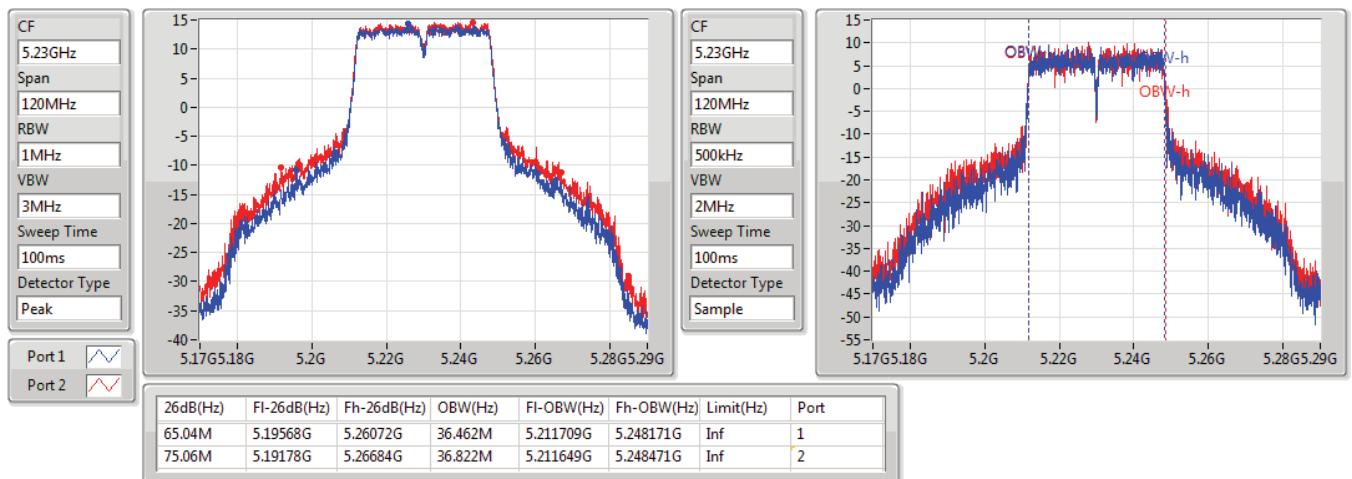


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

23/06/2019

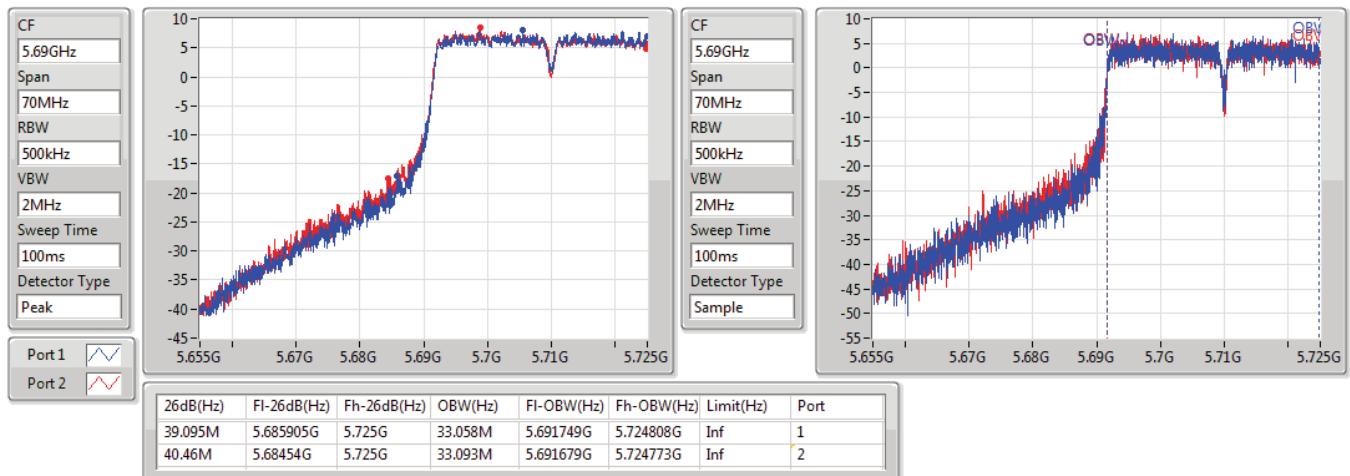

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

23/06/2019

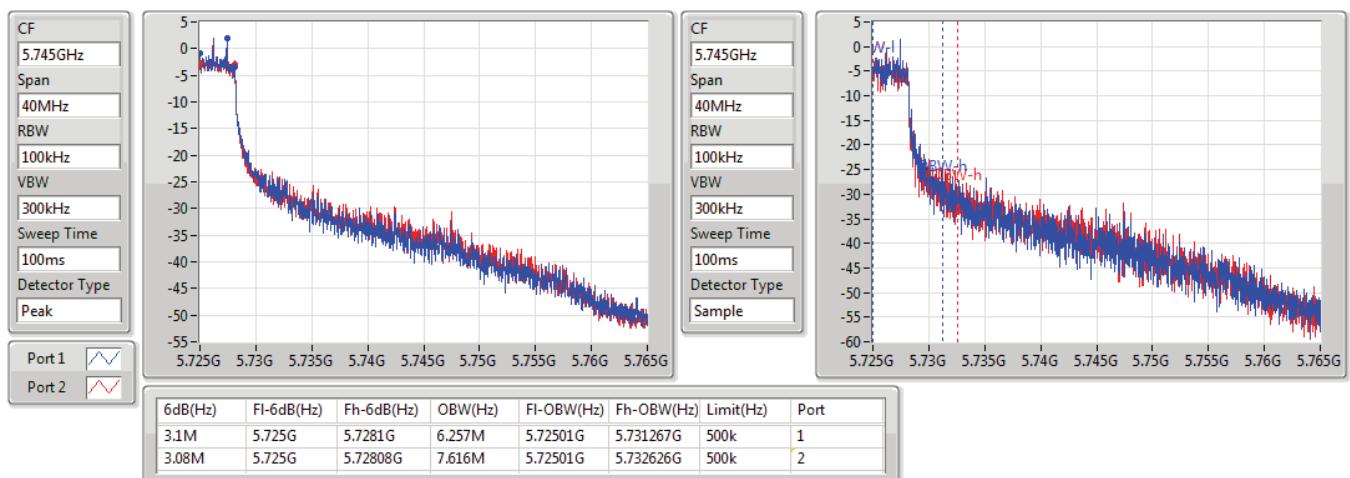


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.47-5.725GHz

23/06/2019

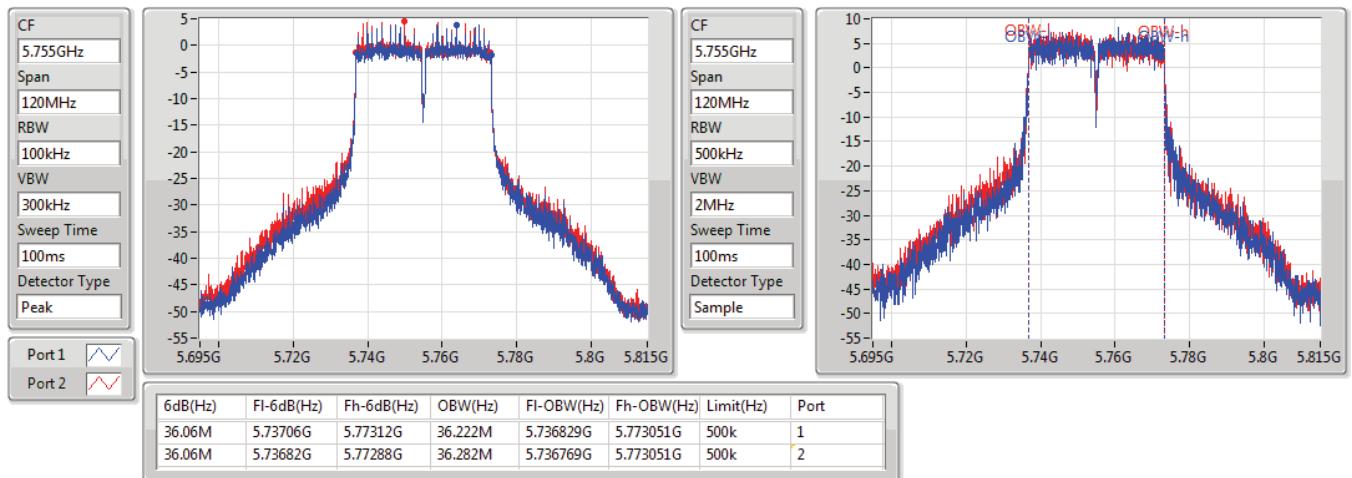

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5710MHz Straddle 5.725-5.85GHz

23/06/2019

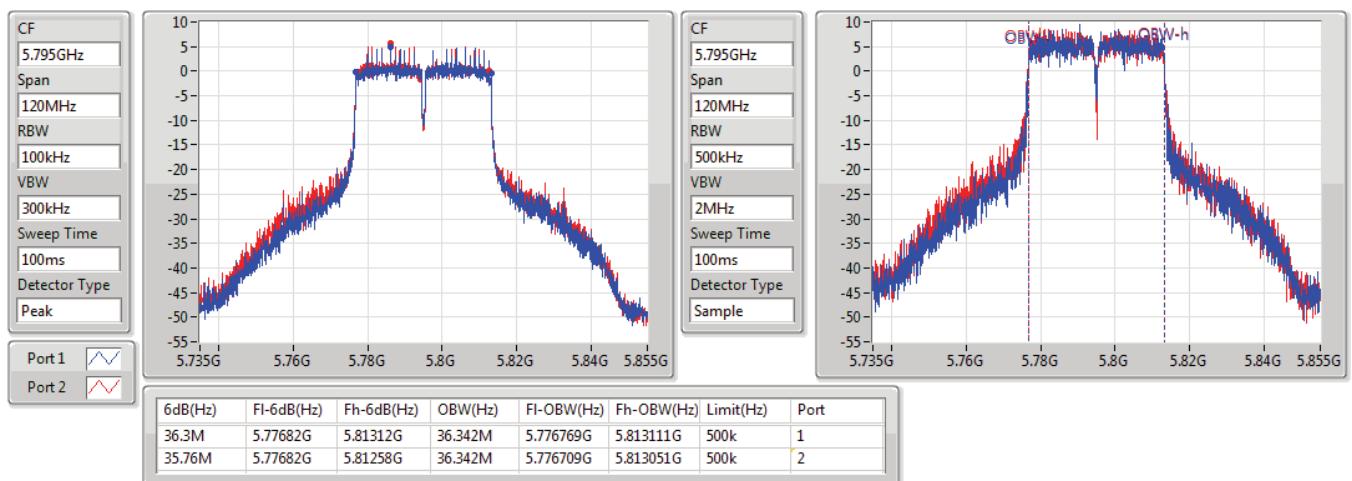


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

23/06/2019

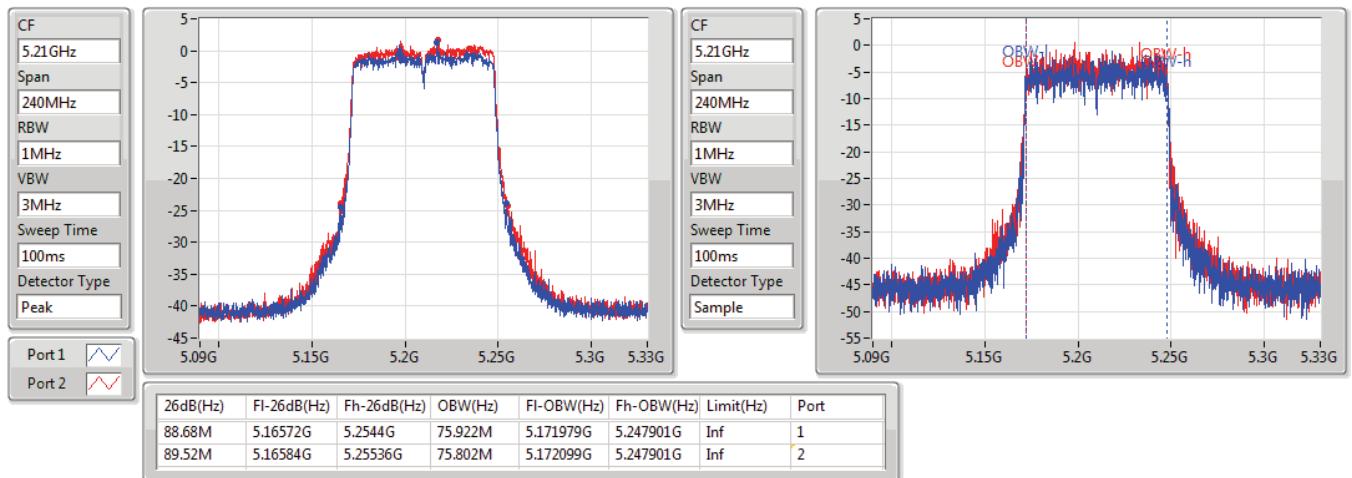

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

23/06/2019

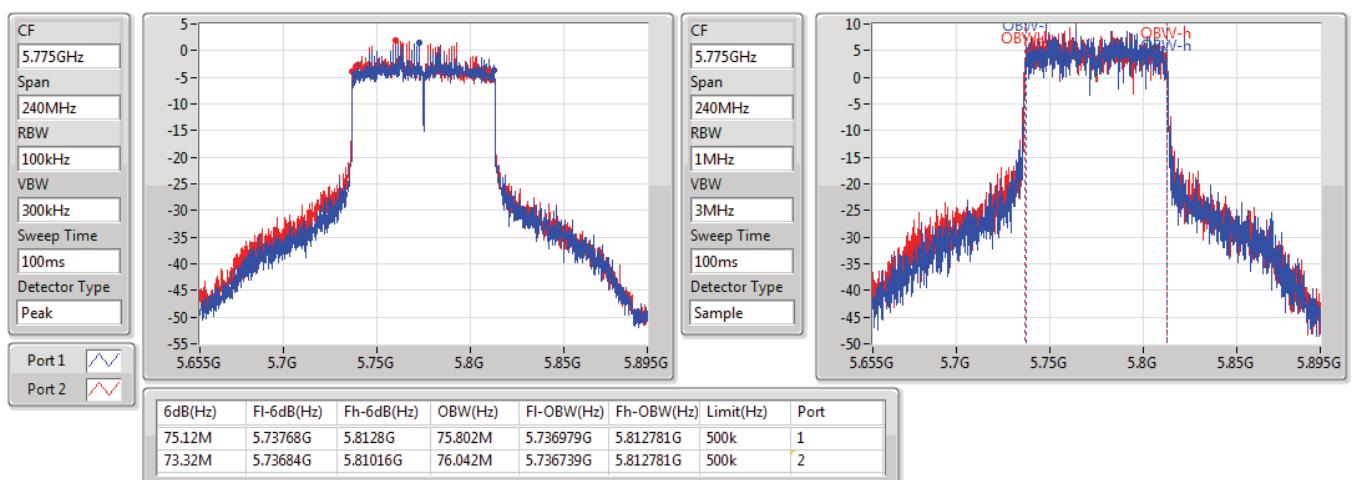


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5210MHz

23/06/2019


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5775MHz

23/06/2019



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	24.09	0.25645	29.09	0.81096
802.11ac VHT20_Nss1,(MCS0)_4TX	24.72	0.29648	29.72	0.93756
802.11ac VHT40_Nss1,(MCS0)_4TX	25.48	0.35318	30.48	1.11686
802.11ac VHT80_Nss1,(MCS0)_4TX	21.16	0.13062	26.16	0.41305
802.11ax HEW20_Nss1,(MCS0)_4TX	24.92	0.31046	29.92	0.98175
802.11ax HEW40_Nss1,(MCS0)_4TX	25.83	0.38282	30.83	1.21060
802.11ax HEW80_Nss1,(MCS0)_4TX	22.00	0.15849	27.00	0.50119
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.44	0.87902	34.44	2.77971
802.11ac VHT20_Nss1,(MCS0)_4TX	29.46	0.88308	34.46	2.79254
802.11ac VHT40_Nss1,(MCS0)_4TX	27.31	0.53827	32.31	1.70216
802.11ac VHT80_Nss1,(MCS0)_4TX	23.33	0.21528	28.33	0.68077
802.11ax HEW20_Nss1,(MCS0)_4TX	29.49	0.88920	34.49	2.81190
802.11ax HEW40_Nss1,(MCS0)_4TX	27.44	0.55463	32.44	1.75388
802.11ax HEW80_Nss1,(MCS0)_4TX	23.60	0.22909	28.60	0.72444



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.00	16.23	15.22	15.14	15.54	21.57	30.00	26.57	36.00
5200MHz	Pass	5.00	18.95	17.98	17.08	18.07	24.09	30.00	29.09	36.00
5240MHz	Pass	5.00	18.36	17.43	17.52	17.59	23.76	30.00	28.76	36.00
5745MHz	Pass	5.00	24.62	22.80	22.88	23.11	29.44	30.00	34.44	36.00
5785MHz	Pass	5.00	24.57	22.76	22.38	22.73	29.22	30.00	34.22	36.00
5825MHz	Pass	5.00	24.31	22.20	22.48	22.48	28.97	30.00	33.97	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.00	16.11	15.02	15.03	15.32	21.41	30.00	26.41	36.00
5200MHz	Pass	5.00	19.47	18.51	18.24	18.47	24.72	30.00	29.72	36.00
5240MHz	Pass	5.00	18.88	18.06	17.85	18.17	24.28	30.00	29.28	36.00
5745MHz	Pass	5.00	24.48	22.80	23.12	23.16	29.46	30.00	34.46	36.00
5785MHz	Pass	5.00	24.50	22.62	22.26	22.52	29.09	30.00	34.09	36.00
5825MHz	Pass	5.00	24.43	22.32	22.44	22.61	29.06	30.00	34.06	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.00	16.75	15.64	15.65	16.12	22.08	30.00	27.08	36.00
5230MHz	Pass	5.00	19.82	19.37	19.20	19.44	25.48	30.00	30.48	36.00
5755MHz	Pass	5.00	21.36	20.29	20.12	20.44	26.60	30.00	31.60	36.00
5795MHz	Pass	5.00	22.21	21.14	20.47	21.16	27.31	30.00	32.31	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.00	16.42	15.42	12.00	15.56	21.16	30.00	26.16	36.00
5775MHz	Pass	5.00	18.81	16.97	16.39	16.64	23.33	30.00	28.33	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.00	16.38	15.46	15.24	15.69	21.73	30.00	26.73	36.00
5200MHz	Pass	5.00	19.65	18.61	18.48	18.77	24.92	30.00	29.92	36.00
5240MHz	Pass	5.00	19.16	18.17	18.11	18.30	24.48	30.00	29.48	36.00
5745MHz	Pass	5.00	24.54	22.95	23.04	23.15	29.49	30.00	34.49	36.00
5785MHz	Pass	5.00	24.25	22.72	22.41	22.71	29.11	30.00	34.11	36.00
5825MHz	Pass	5.00	24.34	22.47	22.53	22.65	29.09	30.00	34.09	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.00	16.89	16.12	15.80	16.30	22.32	30.00	27.32	36.00
5230MHz	Pass	5.00	20.51	19.52	19.39	19.71	25.83	30.00	30.83	36.00
5755MHz	Pass	5.00	22.31	19.90	19.74	19.96	26.64	30.00	31.64	36.00
5795MHz	Pass	5.00	23.02	20.75	20.64	20.77	27.44	30.00	32.44	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.00	16.67	15.70	15.36	16.08	22.00	30.00	27.00	36.00
5775MHz	Pass	5.00	18.96	17.19	16.79	17.01	23.60	30.00	28.60	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	18.70	0.07413	29.72	0.93756
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	19.46	0.08831	30.48	1.11686
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	15.14	0.03266	26.16	0.41305
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.90	0.07762	29.92	0.98175
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	19.81	0.09572	30.83	1.21060
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	15.98	0.03963	27.00	0.50119
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	23.44	0.22080	34.46	2.79254
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	21.29	0.13459	32.31	1.70216
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	17.31	0.05383	28.33	0.68077
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.47	0.22233	34.49	2.81190
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	21.42	0.13868	32.44	1.75388
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	17.58	0.05728	28.60	0.72444



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	11.02	10.09	9	9.01	9.3	15.39	24.98	26.41	36.00
5200MHz_TnomVnom	Pass	11.02	13.45	12.49	12.22	12.45	18.70	24.98	29.72	36.00
5240MHz_TnomVnom	Pass	11.02	12.86	12.04	11.83	12.15	18.26	24.98	29.28	36.00
5745MHz_TnomVnom	Pass	11.02	18.46	16.78	17.1	17.14	23.44	24.98	34.46	36.00
5785MHz_TnomVnom	Pass	11.02	18.48	16.6	16.24	16.5	23.07	24.98	34.09	36.00
5825MHz_TnomVnom	Pass	11.02	18.41	16.3	16.42	16.59	23.04	24.98	34.06	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	11.02	10.73	9.62	9.63	10.1	16.06	24.98	27.08	36.00
5230MHz_TnomVnom	Pass	11.02	13.8	13.35	13.18	13.42	19.46	24.98	30.48	36.00
5755MHz_TnomVnom	Pass	11.02	15.34	14.27	14.1	14.42	20.58	24.98	31.60	36.00
5795MHz_TnomVnom	Pass	11.02	16.19	15.12	14.45	15.14	21.29	24.98	32.31	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	11.02	10.4	9.4	5.98	9.54	15.14	24.98	26.16	36.00
5775MHz_TnomVnom	Pass	11.02	12.79	10.95	10.37	10.62	17.31	24.98	28.33	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	11.02	10.36	9.44	9.22	9.67	15.71	24.98	26.73	36.00
5200MHz_TnomVnom	Pass	11.02	13.63	12.59	12.46	12.75	18.90	24.98	29.92	36.00
5240MHz_TnomVnom	Pass	11.02	13.14	12.15	12.09	12.28	18.46	24.98	29.48	36.00
5745MHz_TnomVnom	Pass	11.02	18.52	16.93	17.02	17.13	23.47	24.98	34.49	36.00
5785MHz_TnomVnom	Pass	11.02	18.23	16.7	16.39	16.69	23.09	24.98	34.11	36.00
5825MHz_TnomVnom	Pass	11.02	18.32	16.45	16.51	16.63	23.07	24.98	34.09	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	11.02	10.87	10.1	9.78	10.28	16.30	24.98	27.32	36.00
5230MHz_TnomVnom	Pass	11.02	14.49	13.5	13.37	13.69	19.81	24.98	30.83	36.00
5755MHz_TnomVnom	Pass	11.02	16.29	13.88	13.72	13.94	20.62	24.98	31.64	36.00
5795MHz_TnomVnom	Pass	11.02	17	14.73	14.62	14.75	21.42	24.98	32.44	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	11.02	10.65	9.68	9.34	10.06	15.98	24.98	27.00	36.00
5775MHz_TnomVnom	Pass	11.02	12.94	11.17	10.77	10.99	17.58	24.98	28.60	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	21.75	0.14962	29.75	0.94406
802.11ac VHT20_Nss1,(MCS0)_8TX	21.64	0.14588	29.64	0.92045
802.11ac VHT40_Nss1,(MCS0)_8TX	24.50	0.28184	29.50	0.89125
802.11ac VHT80_Nss1,(MCS0)_8TX	23.64	0.23121	28.64	0.73114
802.11ax HEW20_Nss1,(MCS0)_8TX	22.22	0.16672	30.22	1.05196
802.11ax HEW40_Nss1,(MCS0)_8TX	25.48	0.35318	30.48	1.11686
802.11ax HEW80_Nss1,(MCS0)_8TX	24.00	0.25119	29.00	0.79433
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	27.40	0.54954	35.40	3.46737
802.11ac VHT20_Nss1,(MCS0)_8TX	27.28	0.53456	35.28	3.37287
802.11ac VHT40_Nss1,(MCS0)_8TX	29.04	0.80168	34.04	2.53513
802.11ac VHT80_Nss1,(MCS0)_8TX	25.14	0.32659	30.14	1.03276
802.11ax HEW20_Nss1,(MCS0)_8TX	27.40	0.54954	35.40	3.46737
802.11ax HEW40_Nss1,(MCS0)_8TX	29.07	0.80724	34.07	2.55270
802.11ax HEW80_Nss1,(MCS0)_8TX	25.44	0.34995	30.44	1.10662



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.00	12.30	13.05	11.14	12.30	13.36	12.39	12.27	12.30	21.46	28.00	29.46	36.00
5200MHz	Pass	8.00	12.54	13.34	11.46	12.52	13.60	12.66	12.64	12.68	21.75	28.00	29.75	36.00
5240MHz	Pass	8.00	12.75	12.61	11.58	11.90	13.02	12.20	12.69	12.45	21.45	28.00	29.45	36.00
5745MHz	Pass	8.00	18.26	19.21	17.02	18.03	19.52	18.13	17.95	18.38	27.40	28.00	35.40	36.00
5785MHz	Pass	8.00	17.93	19.40	17.22	17.72	19.71	17.89	17.62	18.14	27.32	28.00	35.32	36.00
5825MHz	Pass	8.00	17.96	19.16	17.06	18.16	19.78	18.05	18.03	18.20	27.40	28.00	35.40	36.00
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.00	12.44	13.21	11.50	12.41	13.29	12.22	12.06	12.45	21.51	28.00	29.51	36.00
5200MHz	Pass	8.00	12.35	12.95	11.24	12.20	13.15	12.15	11.69	12.24	21.32	28.00	29.32	36.00
5240MHz	Pass	8.00	12.82	14.19	12.92	11.97	12.39	12.00	11.97	12.07	21.64	28.00	29.64	36.00
5745MHz	Pass	8.00	17.98	19.07	17.94	17.90	18.87	18.10	18.16	17.74	27.28	28.00	35.28	36.00
5785MHz	Pass	8.00	17.60	18.93	17.34	17.80	19.41	17.81	17.69	17.42	27.09	28.00	35.09	36.00
5825MHz	Pass	8.00	17.70	18.50	17.56	17.85	19.58	17.98	17.80	17.91	27.19	28.00	35.19	36.00
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.00	15.51	16.22	14.89	15.52	15.28	15.29	15.09	15.12	24.41	30.00	29.41	36.00
5230MHz	Pass	5.00	15.82	16.65	15.02	15.26	15.87	14.90	14.76	15.13	24.50	30.00	29.50	36.00
5755MHz	Pass	5.00	19.55	20.98	18.69	19.31	21.78	19.65	19.48	19.79	29.04	30.00	34.04	36.00
5795MHz	Pass	5.00	19.52	21.07	18.91	19.35	21.11	19.32	19.44	19.44	28.88	30.00	33.88	36.00
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.00	15.03	15.50	13.77	14.68	14.87	14.30	14.17	14.34	23.64	30.00	28.64	36.00
5775MHz	Pass	5.00	15.57	17.46	14.91	15.32	17.64	15.87	15.43	15.78	25.14	30.00	30.14	36.00
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.00	13.01	13.90	12.34	13.15	13.94	12.87	12.73	12.91	22.17	28.00	30.17	36.00
5200MHz	Pass	8.00	12.99	13.97	12.46	13.21	13.93	12.95	12.82	12.97	22.22	28.00	30.22	36.00
5240MHz	Pass	8.00	13.53	13.75	12.17	13.11	13.58	13.06	12.89	13.17	22.21	28.00	30.21	36.00
5745MHz	Pass	8.00	18.03	19.01	17.30	17.55	19.98	18.30	18.15	18.06	27.40	28.00	35.40	36.00
5785MHz	Pass	8.00	18.26	18.84	17.01	17.84	19.71	18.23	17.77	17.98	27.30	28.00	35.30	36.00
5825MHz	Pass	8.00	17.88	18.52	17.18	18.15	19.60	18.21	17.88	17.88	27.24	28.00	35.24	36.00
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.00	15.64	16.20	14.15	15.60	16.16	15.30	15.18	15.28	24.51	30.00	29.51	36.00
5230MHz	Pass	5.00	16.52	17.17	15.30	16.52	16.98	16.28	16.29	16.28	25.48	30.00	30.48	36.00
5755MHz	Pass	5.00	19.37	21.18	18.81	19.47	21.81	19.55	19.42	19.81	29.07	30.00	34.07	36.00
5795MHz	Pass	5.00	19.46	21.16	19.14	19.69	20.35	19.73	19.49	19.84	28.93	30.00	33.93	36.00
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.00	15.26	15.77	14.28	14.91	15.40	14.73	14.38	14.84	24.00	30.00	29.00	36.00
5775MHz	Pass	5.00	15.89	17.62	15.18	15.85	17.84	16.24	15.78	16.15	25.44	30.00	30.44	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	15.61	0.03639	29.64	0.92045
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	15.38	0.03451	29.50	0.89125
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	14.61	0.02891	28.64	0.73114
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	16.19	0.04159	30.22	1.05196
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	15.48	0.03532	29.51	0.89331
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	14.97	0.03141	29.00	0.79433
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	21.25	0.13335	35.28	3.37287
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	20.01	0.10023	34.04	2.53513
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	16.11	0.04083	30.14	1.03276
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	21.37	0.13709	35.40	3.46737
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	20.04	0.10093	34.07	2.55270
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	16.41	0.04375	30.44	1.10662



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	14.03	6.41	7.18	5.47	6.38	7.26	6.19	6.03	6.42	15.48	21.97	29.51	36.00
5200MHz	Pass	14.03	6.32	6.92	5.21	6.17	7.12	6.12	5.66	6.21	15.29	21.97	29.32	36.00
5240MHz	Pass	14.03	6.79	8.16	6.89	5.94	6.36	5.97	5.94	6.04	15.61	21.97	29.64	36.00
5745MHz	Pass	14.03	11.95	13.04	11.91	11.87	12.84	12.07	12.13	11.71	21.25	21.97	35.28	36.00
5785MHz	Pass	14.03	11.57	12.9	11.31	11.77	13.38	11.78	11.66	11.39	21.06	21.97	35.09	36.00
5825MHz	Pass	14.03	11.67	12.47	11.53	11.82	13.55	11.95	11.77	11.88	21.16	21.97	35.19	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	14.03	6.48	7.19	5.86	6.49	6.25	6.26	6.06	6.09	15.38	21.97	29.41	36.00
5230MHz	Pass	14.03	6.79	7.62	5.99	6.23	6.84	5.87	5.73	6.1	15.47	21.97	29.50	36.00
5755MHz	Pass	14.03	10.52	11.95	9.66	10.28	12.75	10.62	10.45	10.76	20.01	21.97	34.04	36.00
5795MHz	Pass	14.03	10.49	12.04	9.88	10.32	12.08	10.29	10.41	10.41	19.85	21.97	33.88	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	14.03	6	6.47	4.74	5.65	5.84	5.27	5.14	5.31	14.61	21.97	28.64	36.00
5775MHz	Pass	14.03	6.54	8.43	5.88	6.29	8.61	6.84	6.4	6.75	16.11	21.97	30.14	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	14.03	6.98	7.87	6.31	7.12	7.91	6.84	6.7	6.88	16.14	21.97	30.17	36.00
5200MHz	Pass	14.03	6.96	7.94	6.43	7.18	7.9	6.92	6.79	6.94	16.19	21.97	30.22	36.00
5240MHz	Pass	14.03	7.5	7.72	6.14	7.08	7.55	7.03	6.86	7.14	16.18	21.97	30.21	36.00
5745MHz	Pass	14.03	12	12.98	11.27	11.52	13.95	12.27	12.12	12.03	21.37	21.97	35.40	36.00
5785MHz	Pass	14.03	12.23	12.81	10.98	11.81	13.68	12.2	11.74	11.95	21.27	21.97	35.30	36.00
5825MHz	Pass	14.03	11.85	12.49	11.15	12.12	13.57	12.18	11.85	11.85	21.21	21.97	35.24	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	14.03	6.61	7.17	5.12	6.57	7.13	6.27	6.15	6.25	15.48	21.97	29.51	36.00
5230MHz	Pass	14.03	7.49	8.14	6.27	7.49	7.95	7.25	7.26	7.25	16.45	21.97	30.48	36.00
5755MHz	Pass	14.03	10.34	12.15	9.78	10.44	12.78	10.52	10.39	10.78	20.04	21.97	34.07	36.00
5795MHz	Pass	14.03	10.43	12.13	10.11	10.66	11.32	10.7	10.46	10.81	19.90	21.97	33.93	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	14.03	6.23	6.74	5.25	5.88	6.37	5.7	5.35	5.81	14.97	21.97	29.00	36.00
5775MHz	Pass	14.03	6.86	8.59	6.15	6.82	8.81	7.21	6.75	7.12	16.41	21.97	30.44	36.00

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

**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	40.62M	21.379M	21M4D1D	25.35M	16.612M
802.11ac VHT20_Nss1,(MCS0)_2TX	45.24M	21.439M	21M4D1D	29.55M	17.841M
802.11ac VHT40_Nss1,(MCS0)_2TX	75.06M	36.822M	36M8D1D	44.88M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	89.52M	75.922M	75M9D1D	88.68M	75.802M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.38M	19.52M	19M5D1D	3.06M	3.998M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.55M	17.991M	18M0D1D	3.7M	4.158M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	36.342M	36M3D1D	3.08M	6.257M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.12M	76.042M	76M0D1D	3.2M	19.39M

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

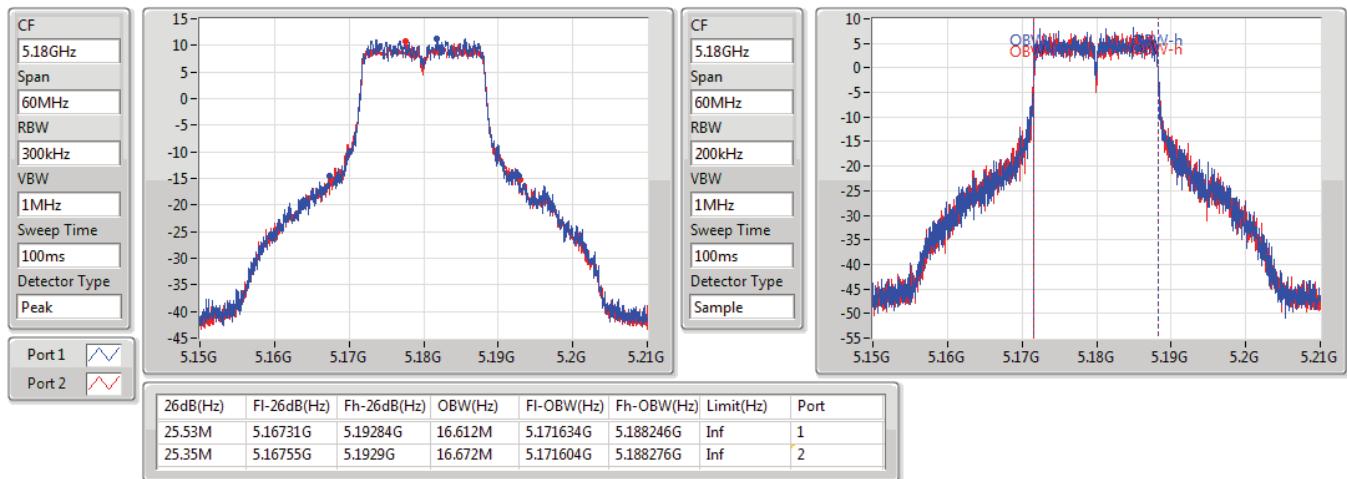
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	25.53M	16.612M	25.35M	16.672M
5200MHz_TnomVnom	Pass	Inf	38.13M	19.64M	40.62M	21.379M
5240MHz_TnomVnom	Pass	Inf	39.87M	18.171M	40.23M	19.97M
5745MHz_TnomVnom	Pass	500k	16.38M	16.582M	16.02M	16.612M
5785MHz_TnomVnom	Pass	500k	16.29M	17.631M	16.32M	19.52M
5825MHz_TnomVnom	Pass	500k	16.32M	16.492M	16.05M	16.462M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	Inf	32.16M	17.901M	29.55M	17.841M
5200MHz_TnomVnom	Pass	Inf	42.72M	19.91M	45.24M	21.439M
5240MHz_TnomVnom	Pass	Inf	40.41M	18.231M	43.35M	19.73M
5745MHz_TnomVnom	Pass	500k	17.55M	17.691M	17.31M	17.751M
5785MHz_TnomVnom	Pass	500k	17.55M	17.871M	17.31M	17.991M
5825MHz_TnomVnom	Pass	500k	16.92M	17.871M	17.01M	17.901M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	Inf	44.88M	36.222M	46.02M	36.222M
5230MHz_TnomVnom	Pass	Inf	65.04M	36.462M	75.06M	36.822M
5755MHz_TnomVnom	Pass	500k	36.06M	36.222M	36.06M	36.282M
5795MHz_TnomVnom	Pass	500k	36.3M	36.342M	35.76M	36.342M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	Inf	88.68M	75.922M	89.52M	75.802M
5775MHz_TnomVnom	Pass	500k	75.12M	75.802M	73.32M	76.042M

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

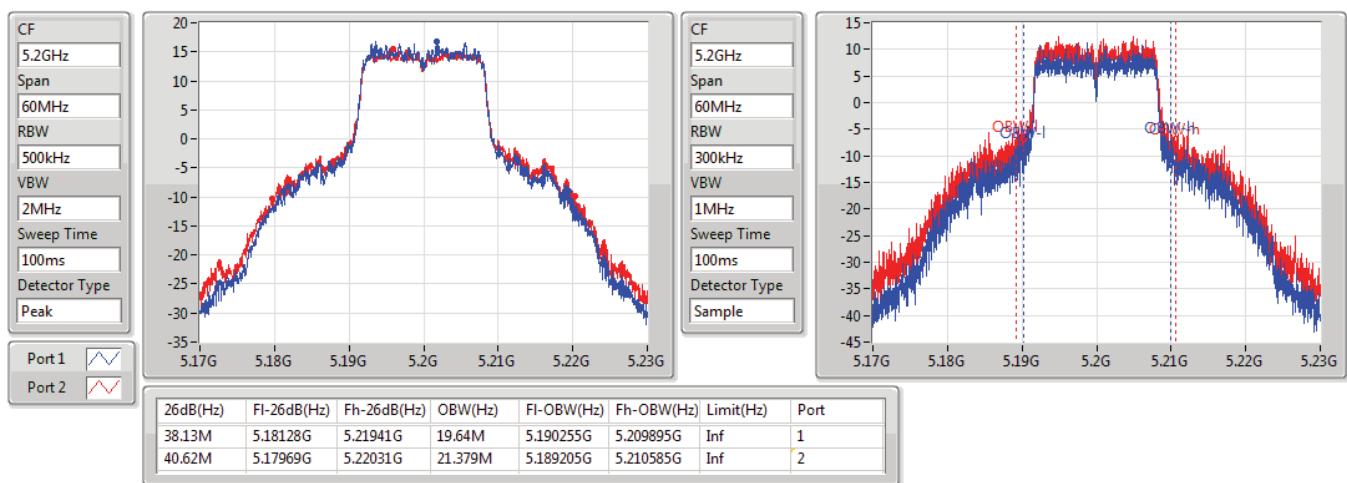
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

23/06/2019

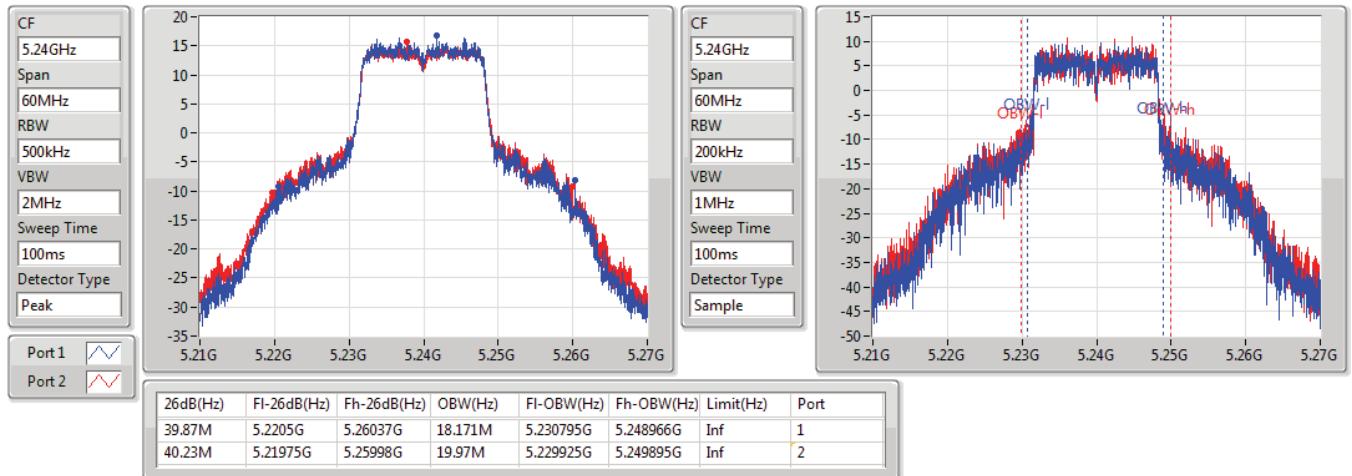

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

23/06/2019

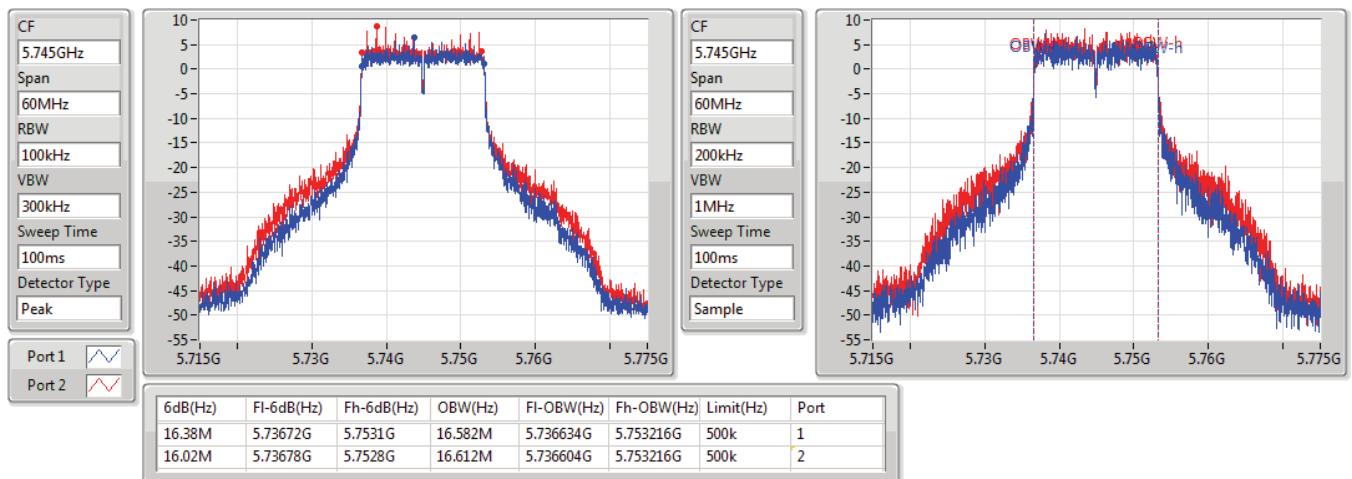


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

23/06/2019

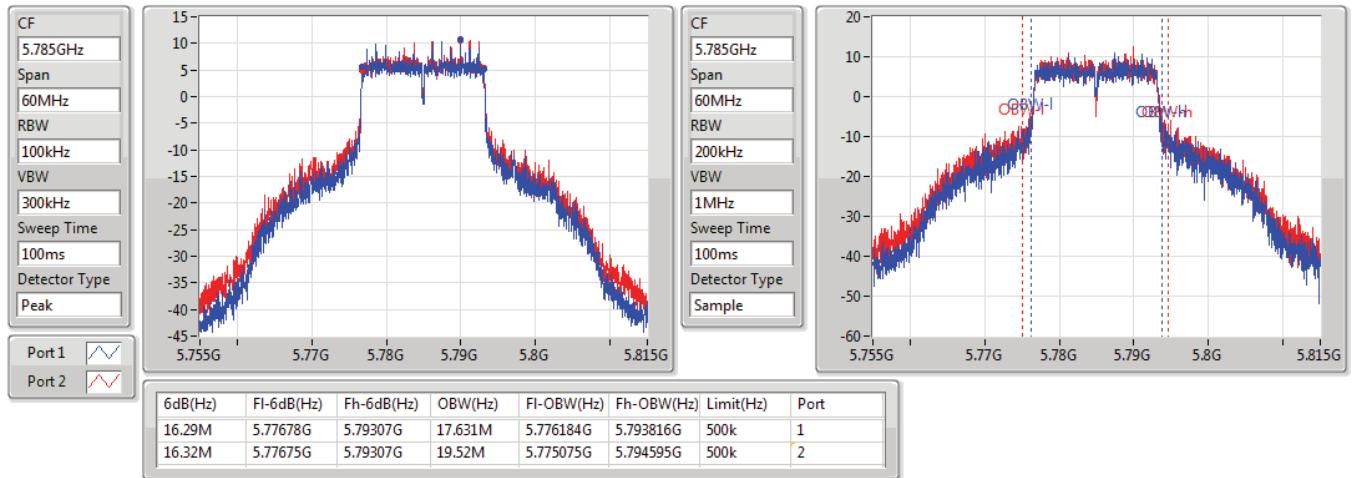

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

23/06/2019

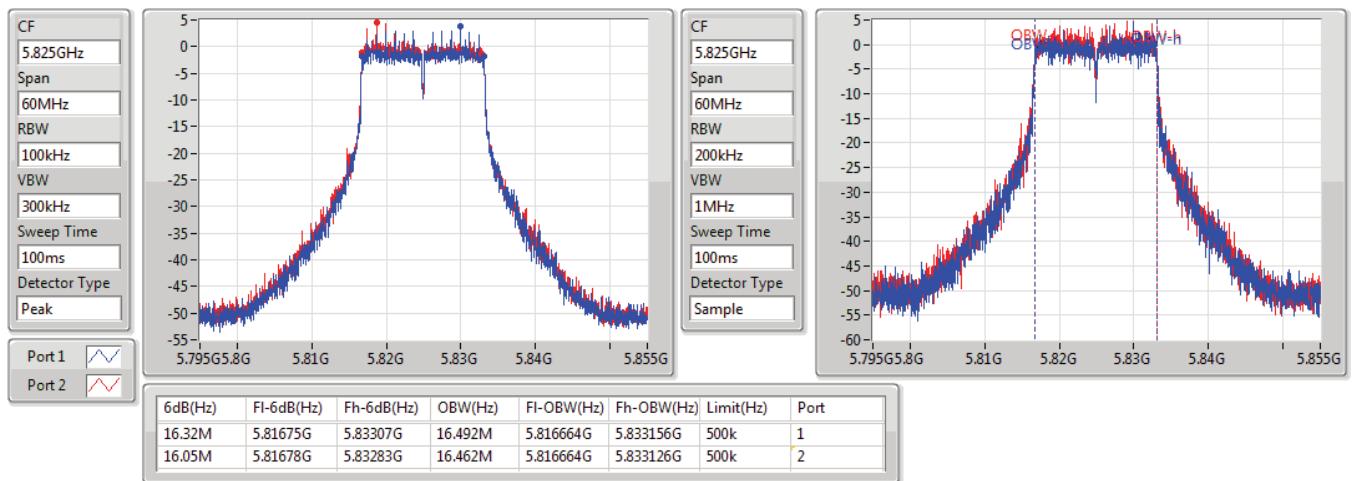


802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

23/06/2019

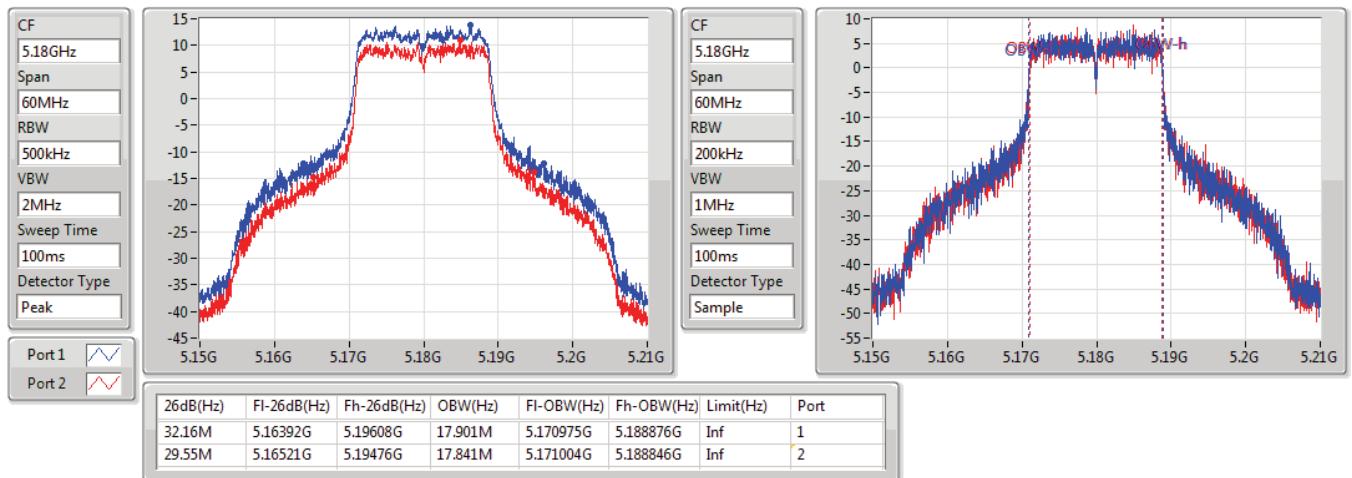

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

23/06/2019

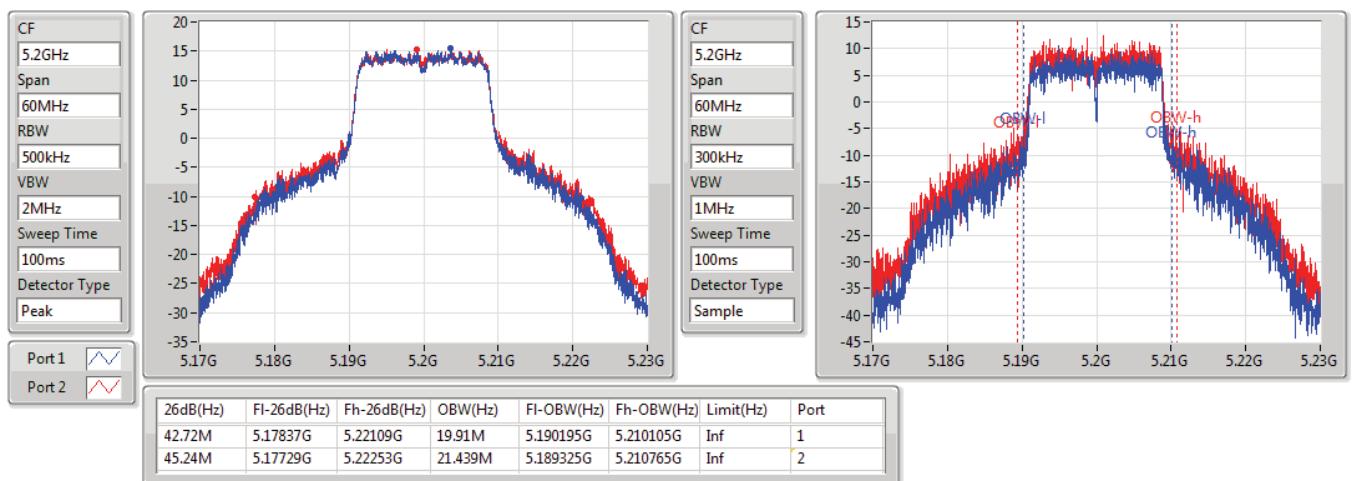


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

23/06/2019

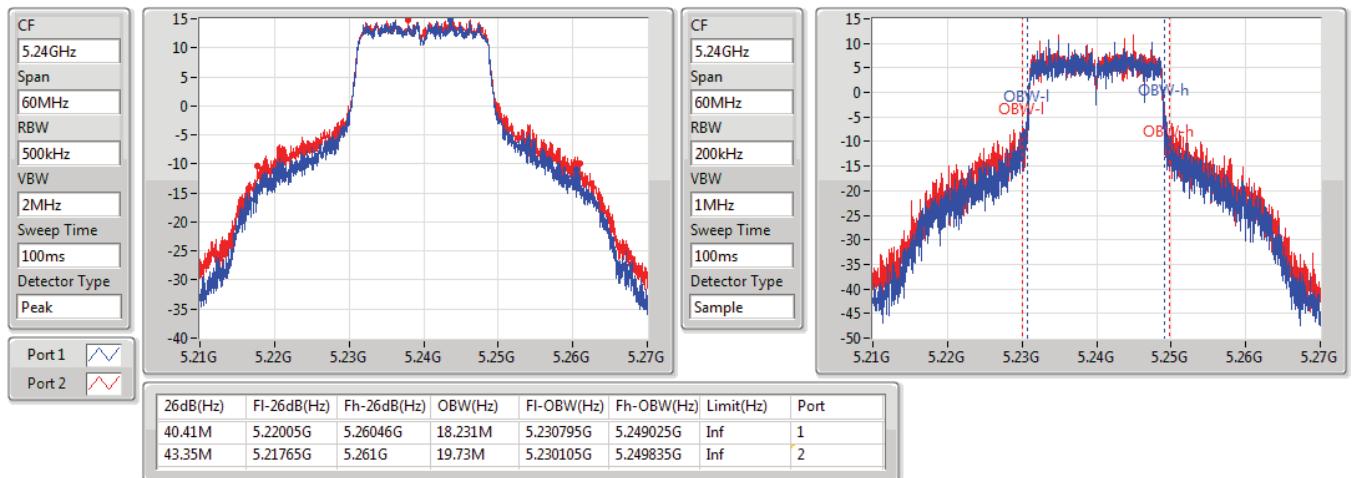

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

23/06/2019

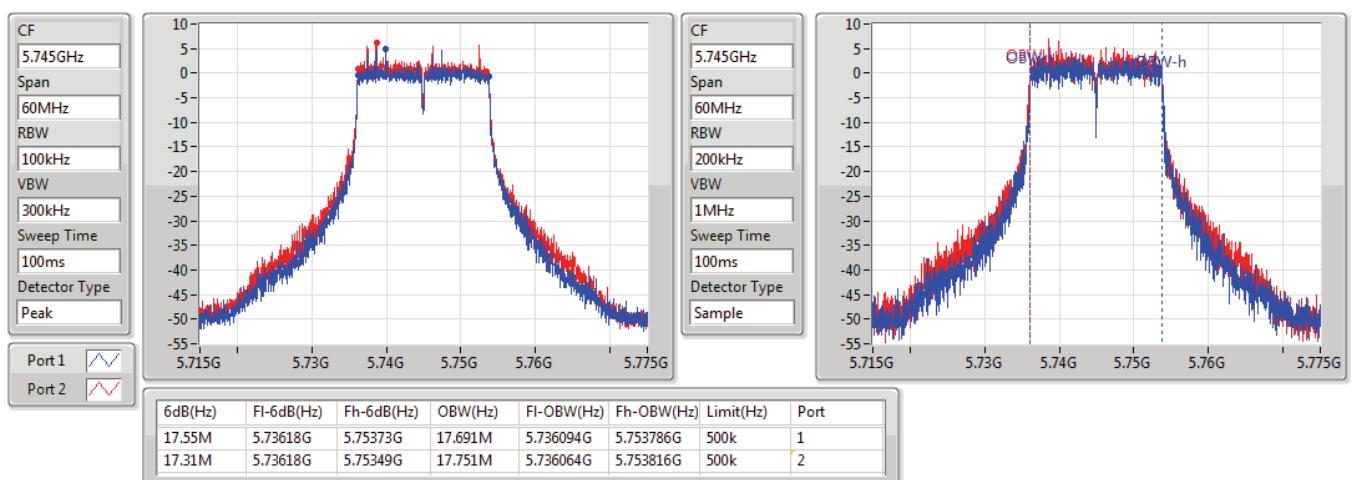


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5240MHz

23/06/2019

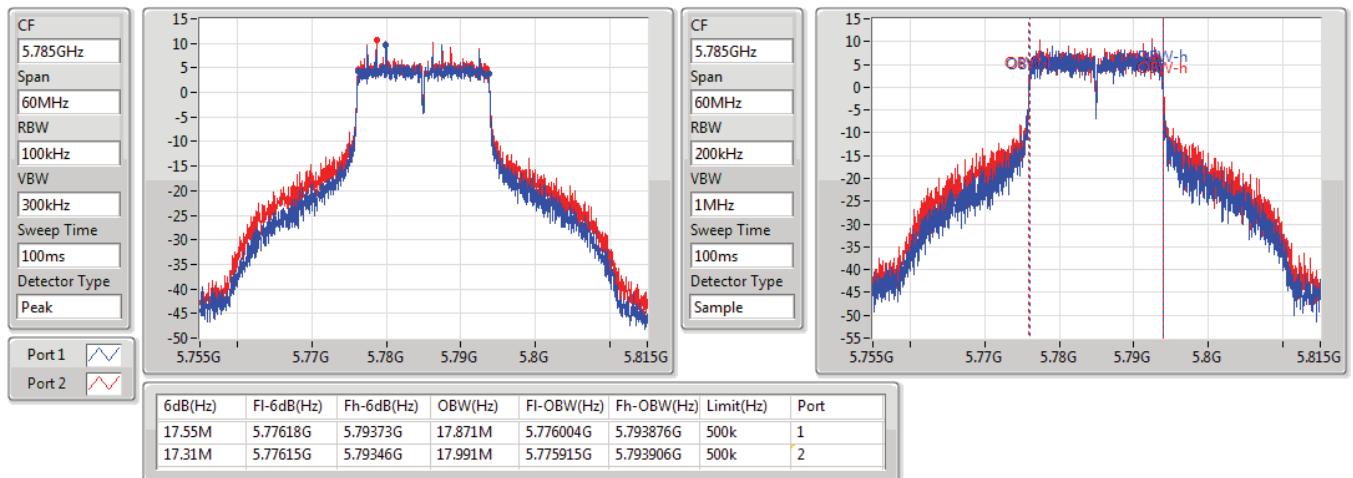

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

23/06/2019

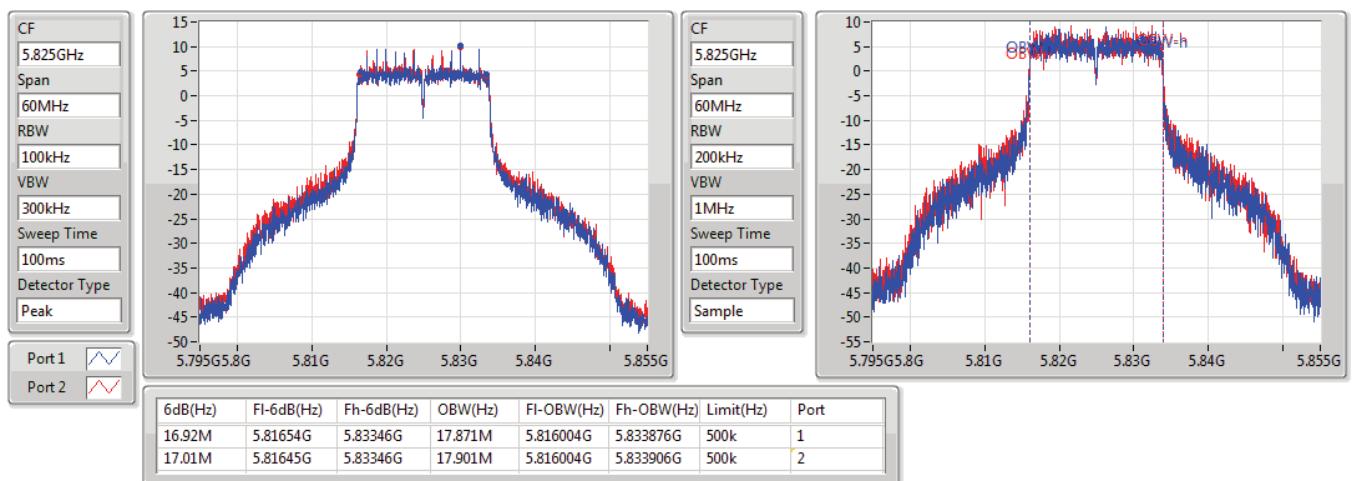


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

23/06/2019

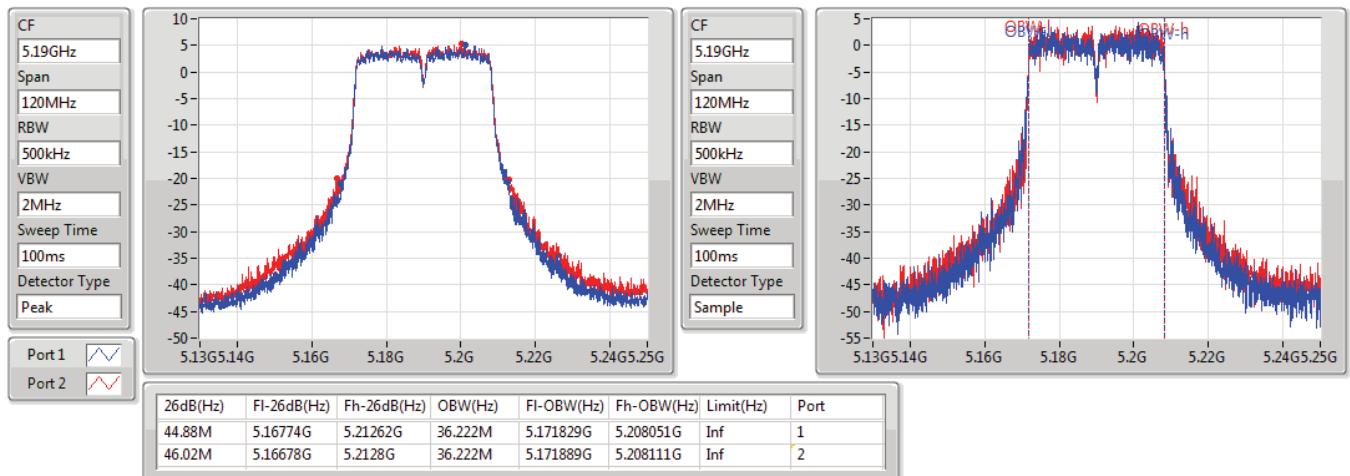

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

23/06/2019

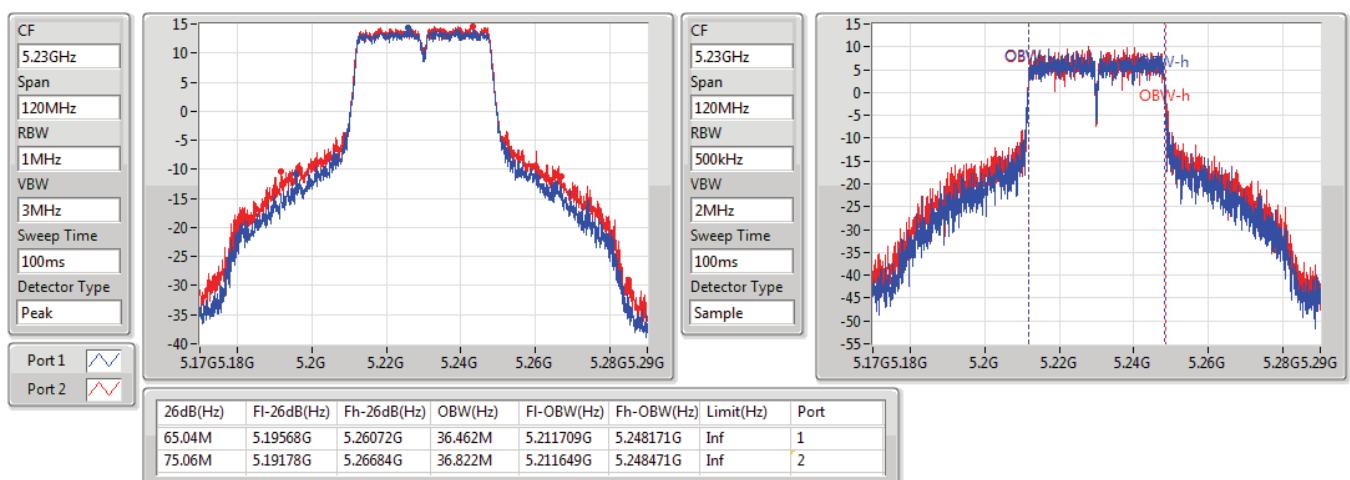


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

23/06/2019

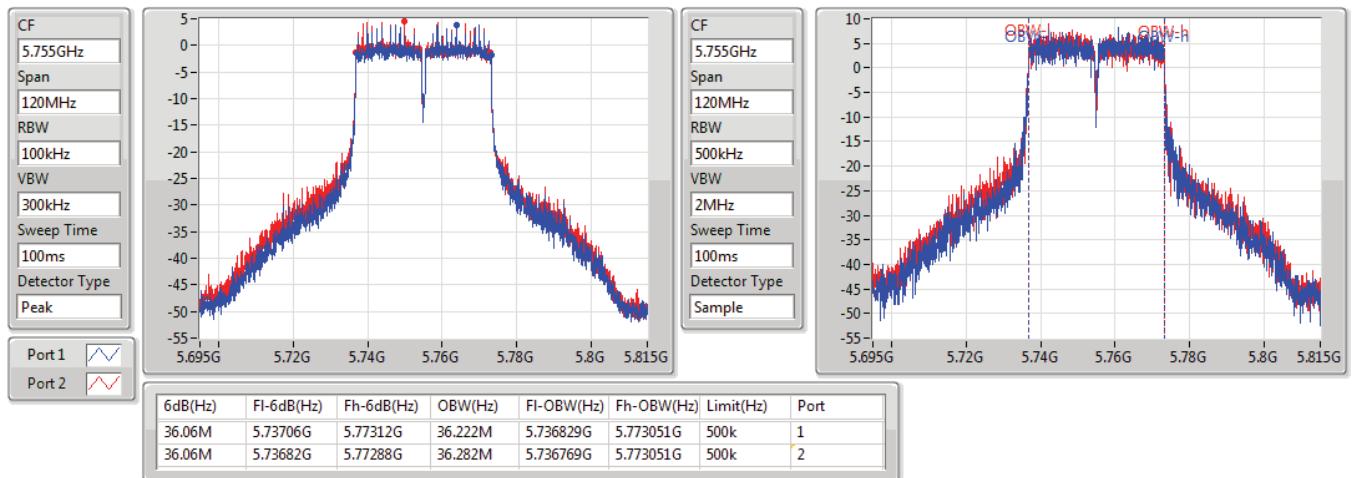

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

23/06/2019

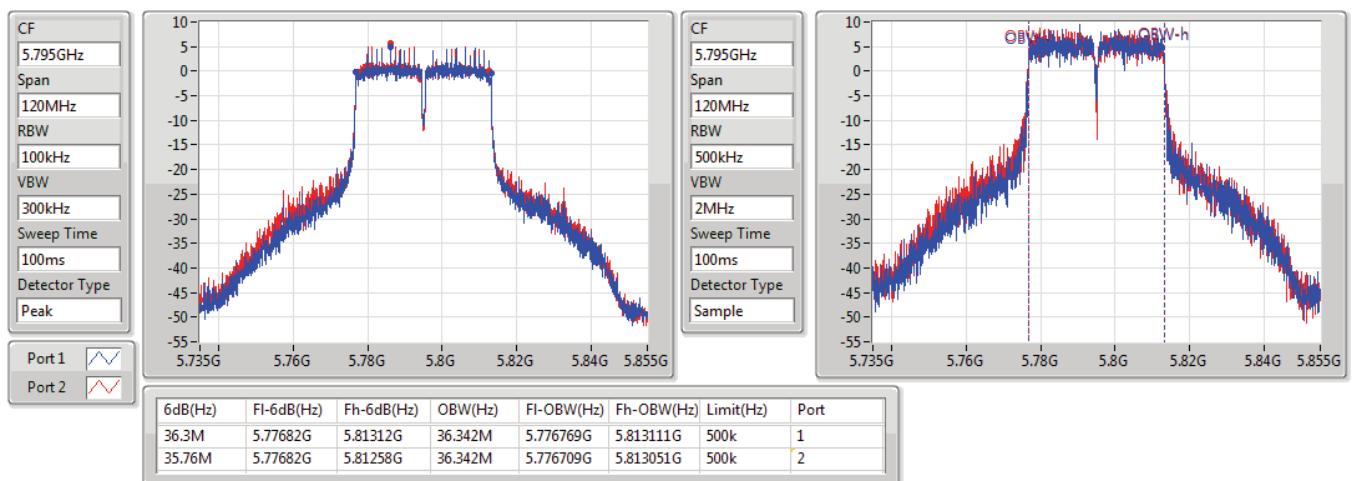


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

23/06/2019

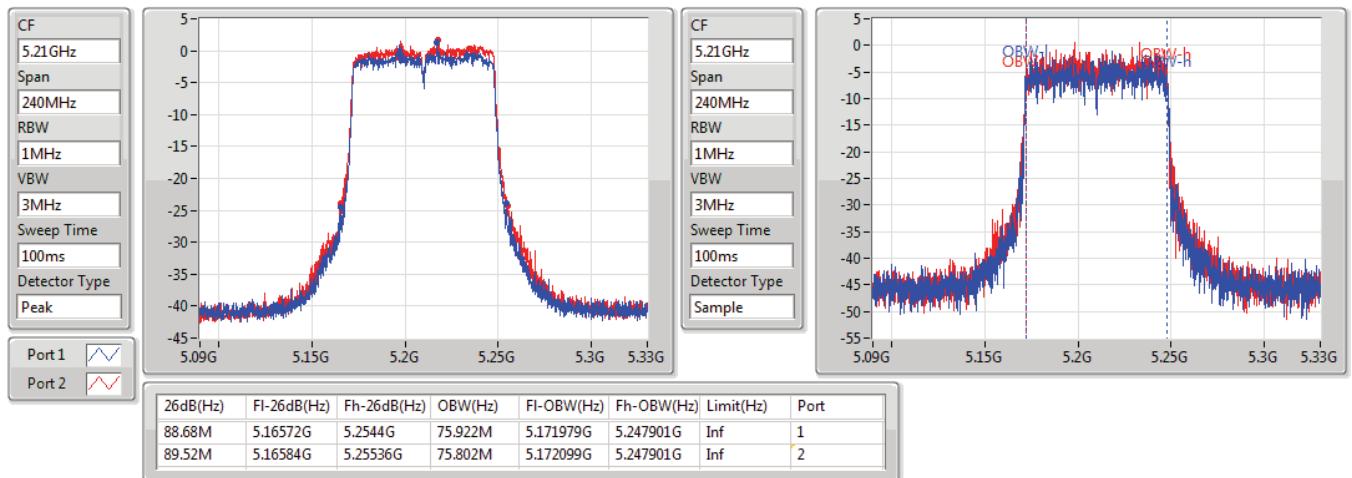

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

23/06/2019

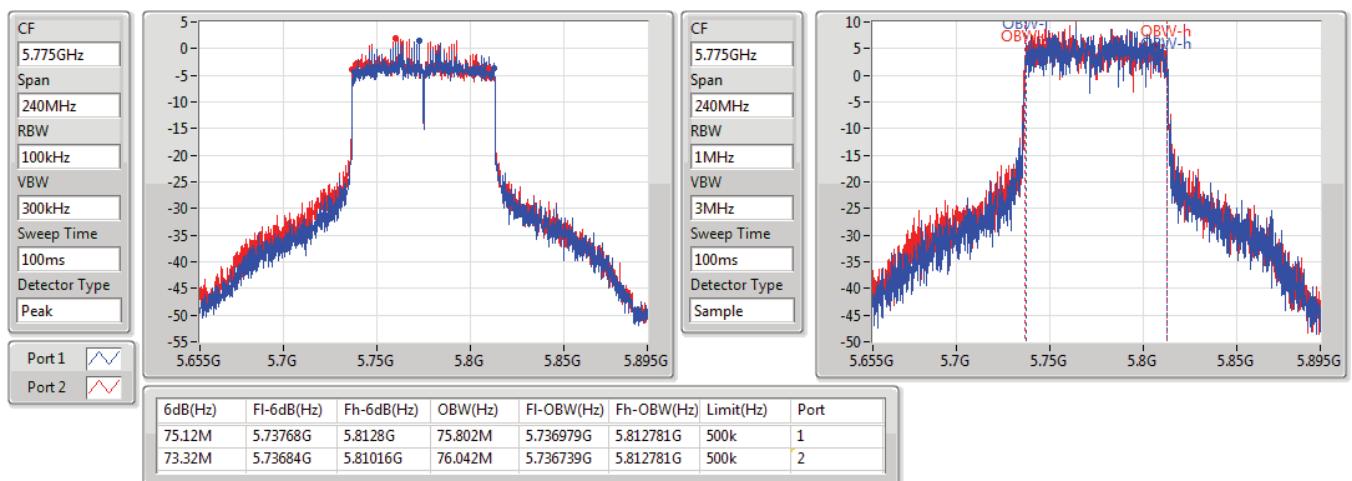


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5210MHz

23/06/2019


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5775MHz

23/06/2019



**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	11.58	22.60
802.11ac VHT20_Nss1,(MCS0)_4TX	11.82	22.84
802.11ac VHT40_Nss1,(MCS0)_4TX	10.01	21.03
802.11ac VHT80_Nss1,(MCS0)_4TX	3.03	14.05
802.11ax HEW20_Nss1,(MCS0)_4TX	11.77	22.79
802.11ax HEW40_Nss1,(MCS0)_4TX	9.92	20.94
802.11ax HEW80_Nss1,(MCS0)_4TX	3.22	14.24
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	15.06	26.08
802.11ac VHT20_Nss1,(MCS0)_4TX	15.07	26.09
802.11ac VHT40_Nss1,(MCS0)_4TX	10.16	21.18
802.11ac VHT80_Nss1,(MCS0)_4TX	3.25	14.27
802.11ax HEW20_Nss1,(MCS0)_4TX	14.64	25.66
802.11ax HEW40_Nss1,(MCS0)_4TX	9.96	20.98
802.11ax HEW80_Nss1,(MCS0)_4TX	3.42	14.44

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

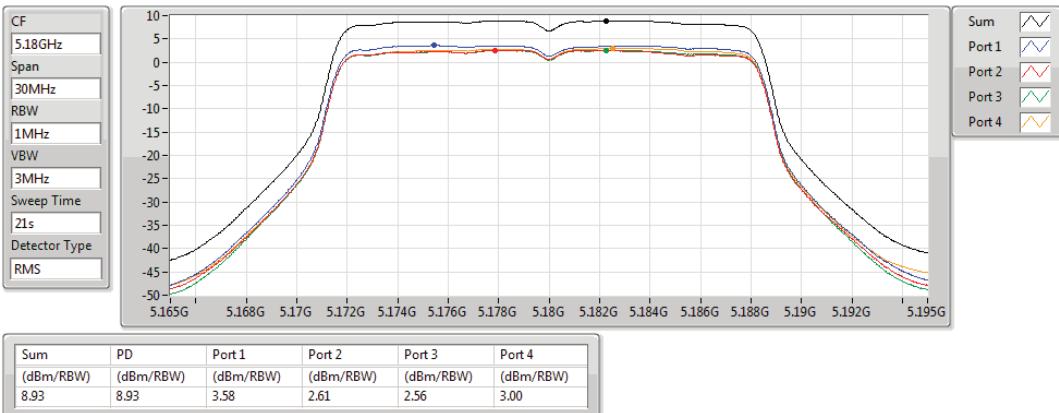
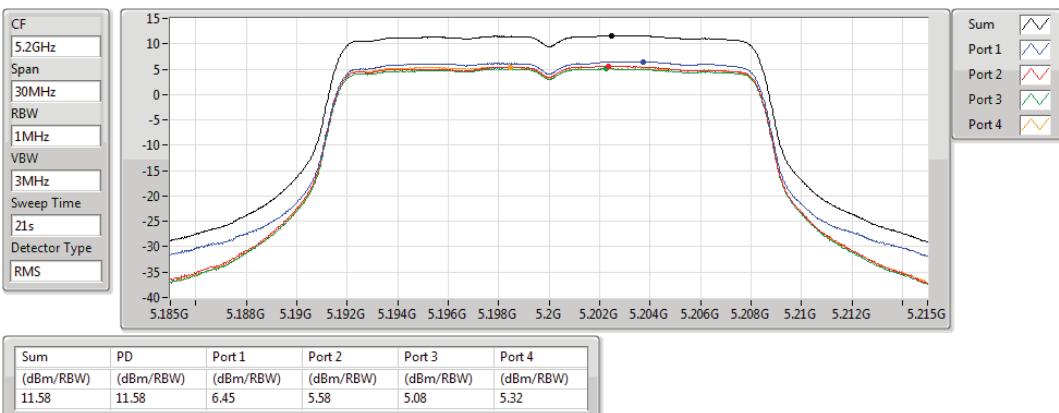
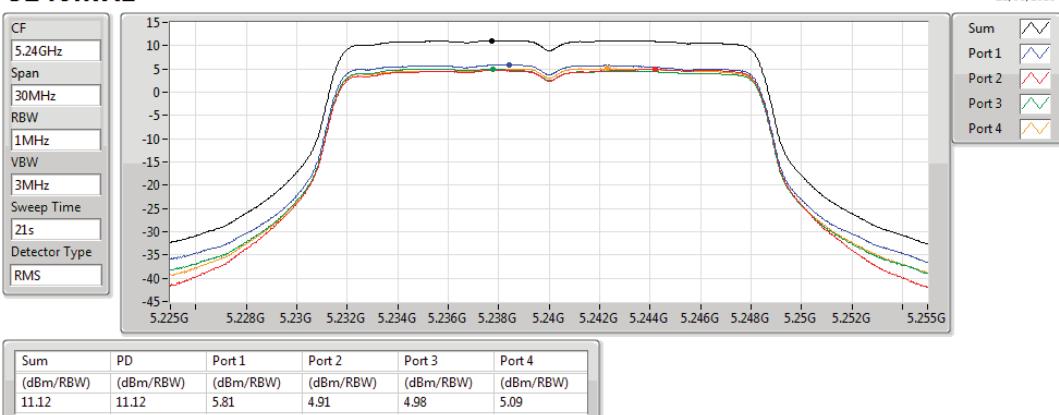


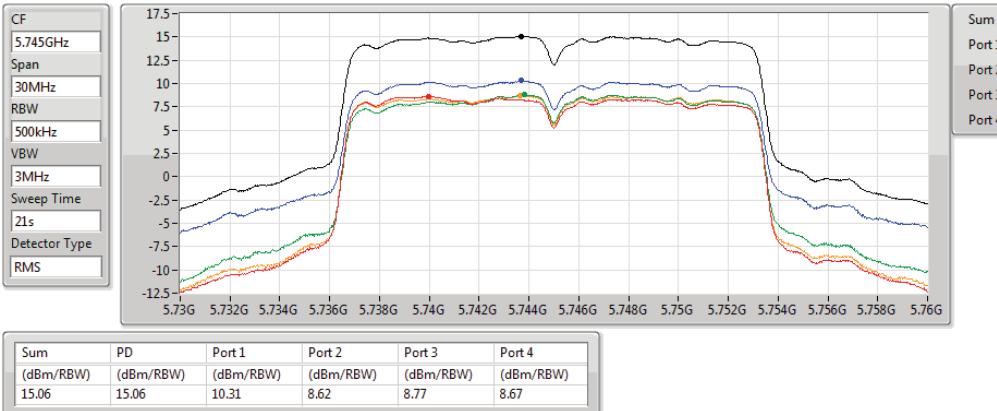
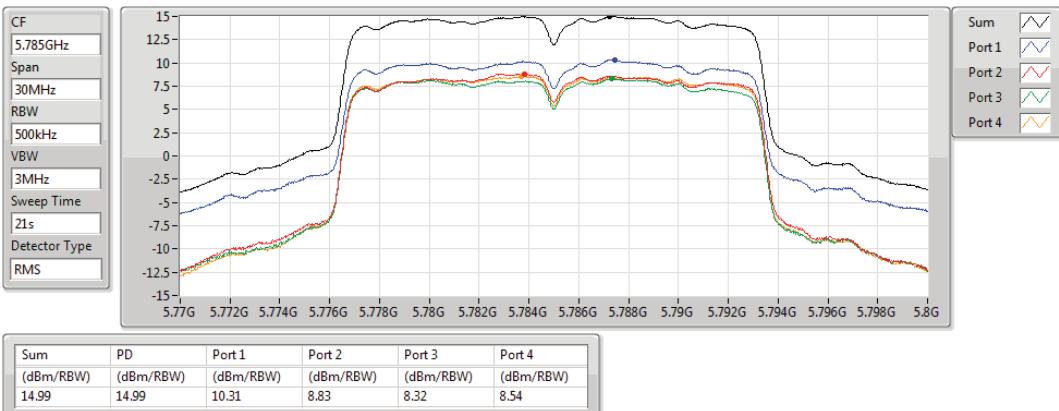
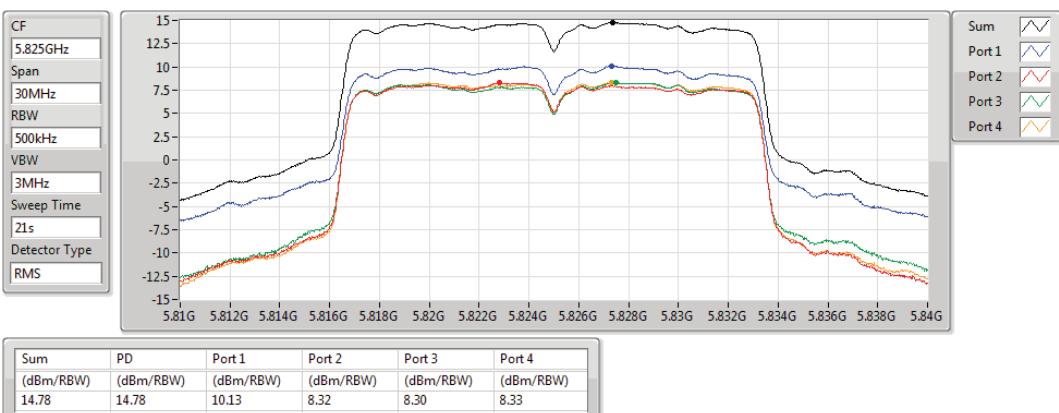
Result

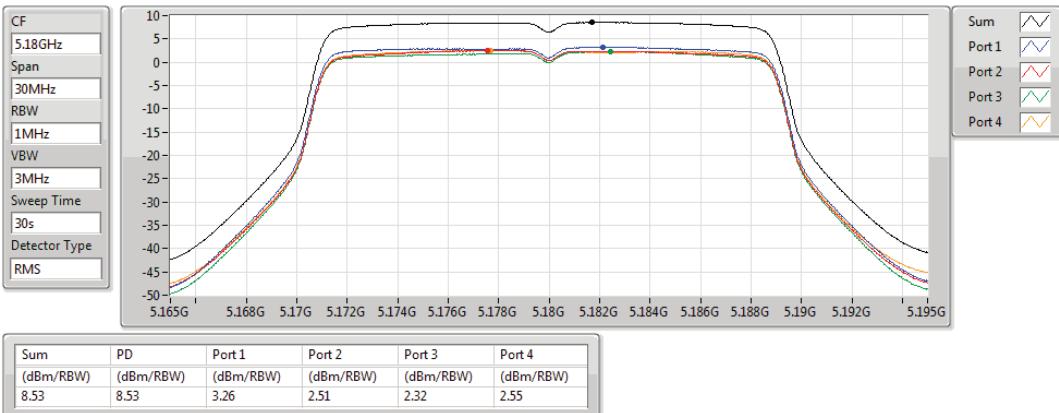
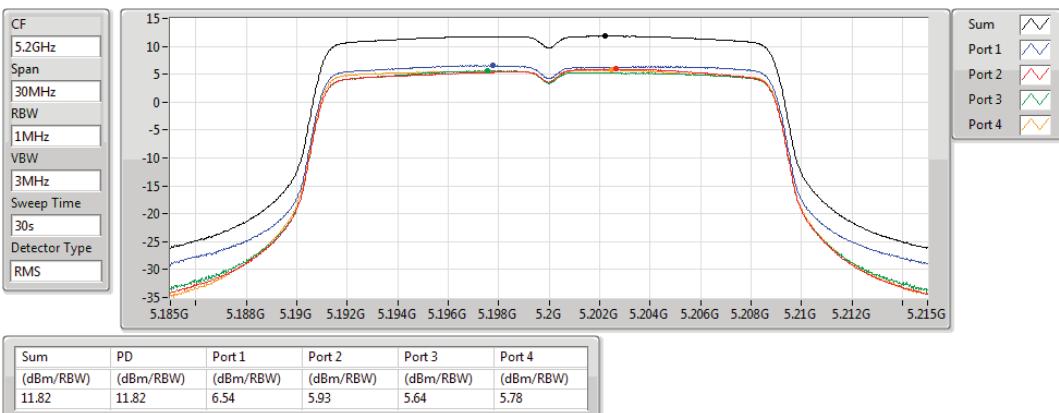
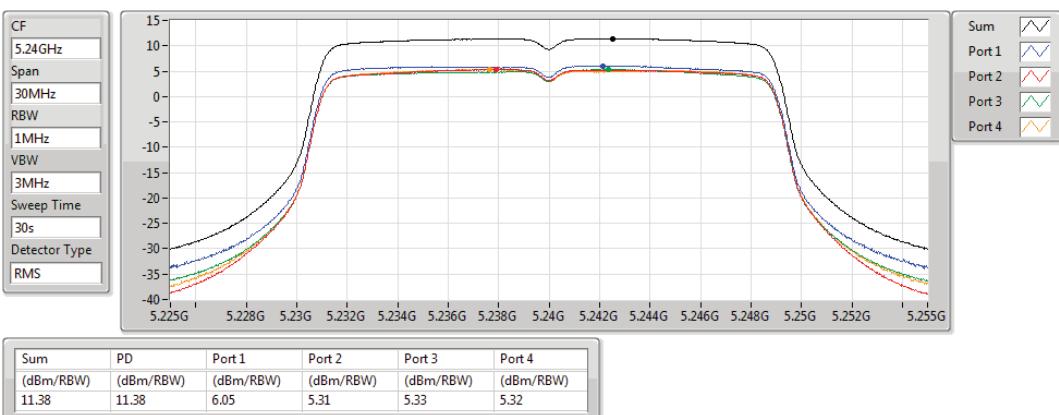
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	11.02	3.58	2.61	2.56	3.00	8.93	11.98	19.95	23.00
5200MHz	Pass	11.02	6.45	5.58	5.08	5.32	11.58	11.98	22.60	23.00
5240MHz	Pass	11.02	5.81	4.91	4.98	5.09	11.12	11.98	22.14	23.00
5745MHz	Pass	11.02	10.31	8.62	8.77	8.67	15.06	24.98	26.08	36.00
5785MHz	Pass	11.02	10.31	8.83	8.32	8.54	14.99	24.98	26.01	36.00
5825MHz	Pass	11.02	10.13	8.32	8.30	8.33	14.78	24.98	25.80	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	11.02	3.26	2.51	2.32	2.55	8.53	11.98	19.55	23.00
5200MHz	Pass	11.02	6.54	5.93	5.64	5.78	11.82	11.98	22.84	23.00
5240MHz	Pass	11.02	6.05	5.31	5.33	5.32	11.38	11.98	22.40	23.00
5745MHz	Pass	11.02	10.11	8.45	9.02	8.79	15.07	24.98	26.09	36.00
5785MHz	Pass	11.02	9.89	8.70	8.01	8.20	14.61	24.98	25.63	36.00
5825MHz	Pass	11.02	9.95	8.03	8.23	8.27	14.69	24.98	25.71	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	11.02	1.07	0.07	-0.06	0.60	6.28	11.98	17.30	23.00
5230MHz	Pass	11.02	4.92	3.95	3.68	3.95	10.01	11.98	21.03	23.00
5755MHz	Pass	11.02	4.97	2.79	2.74	2.84	9.36	24.98	20.38	36.00
5795MHz	Pass	11.02	5.94	3.59	3.38	3.70	10.16	24.98	21.18	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	11.02	-2.03	-3.16	-3.35	-2.92	3.03	11.98	14.05	23.00
5775MHz	Pass	11.02	-1.22	-3.02	-3.32	-3.40	3.25	24.98	14.27	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	11.02	3.25	2.28	2.29	2.61	8.46	11.98	19.48	23.00
5200MHz	Pass	11.02	6.73	5.44	5.29	5.82	11.77	11.98	22.79	23.00
5240MHz	Pass	11.02	6.09	5.11	5.23	5.32	11.41	11.98	22.43	23.00
5745MHz	Pass	11.02	9.61	8.33	8.39	8.43	14.64	24.98	25.66	36.00
5785MHz	Pass	11.02	9.59	8.20	7.74	7.99	14.37	24.98	25.39	36.00
5825MHz	Pass	11.02	9.51	7.91	8.19	7.99	14.39	24.98	25.41	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	11.02	1.02	0.58	0.05	0.46	6.40	11.98	17.42	23.00
5230MHz	Pass	11.02	4.67	3.89	3.59	4.17	9.92	11.98	20.94	23.00
5755MHz	Pass	11.02	4.98	2.87	2.51	2.71	9.26	24.98	20.28	36.00
5795MHz	Pass	11.02	5.57	3.63	3.18	3.44	9.96	24.98	20.98	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	11.02	-1.89	-2.78	-3.04	-2.63	3.22	11.98	14.24	23.00
5775MHz	Pass	11.02	-1.01	-2.59	-3.31	-3.12	3.42	24.98	14.44	36.00

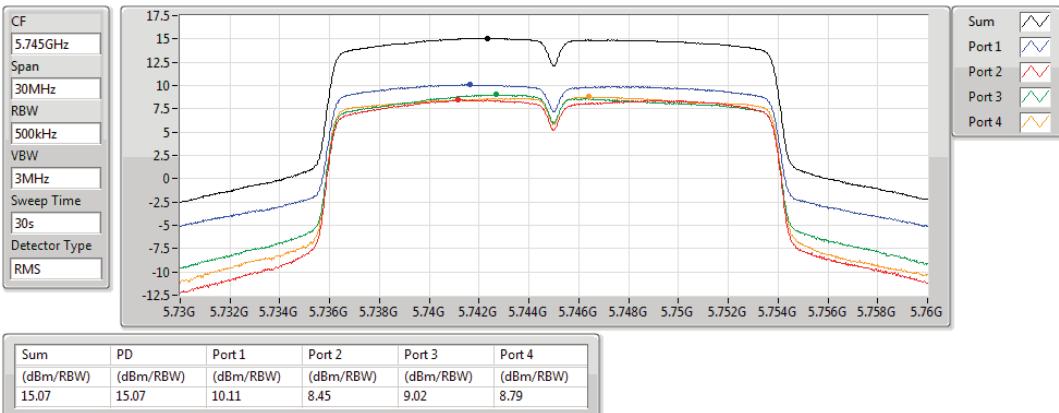
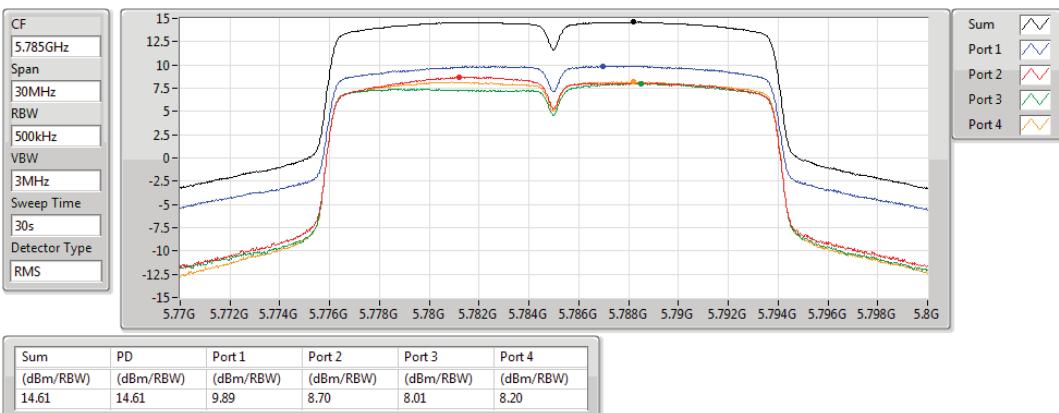
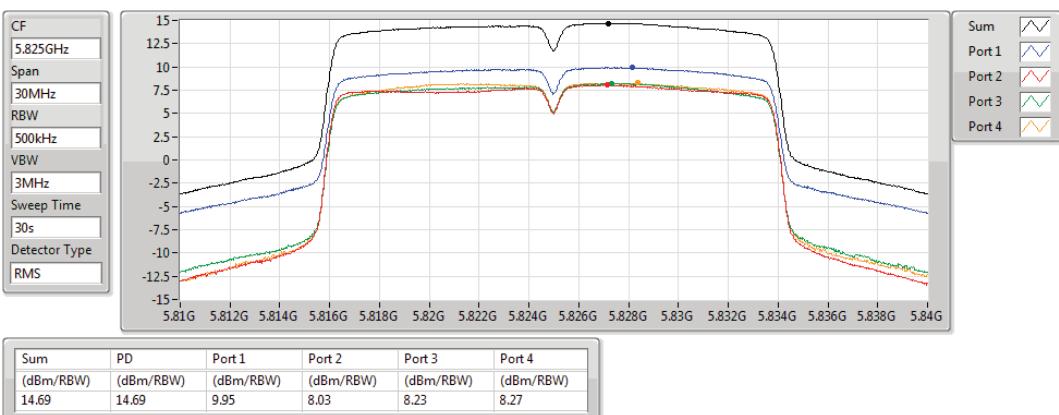
DG = Directional Gain; RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

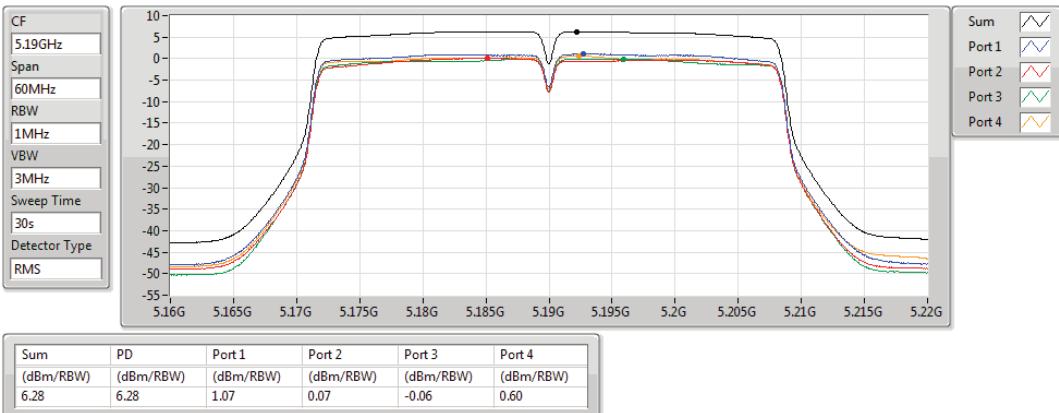
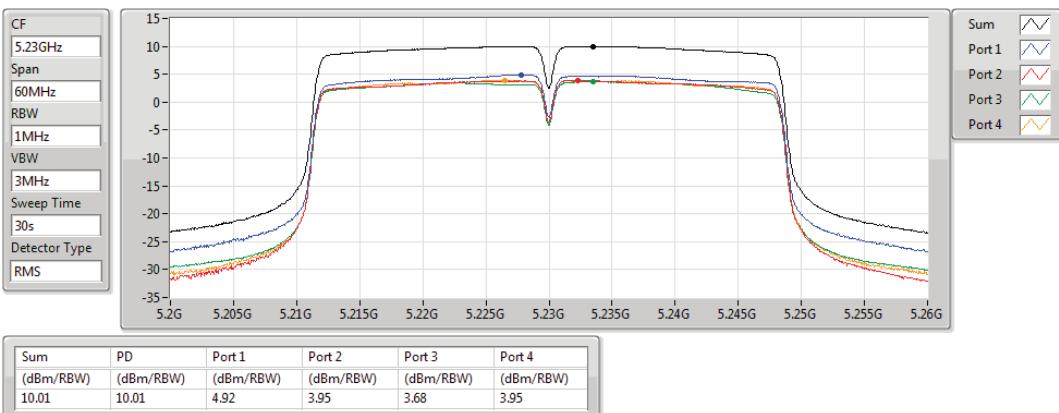
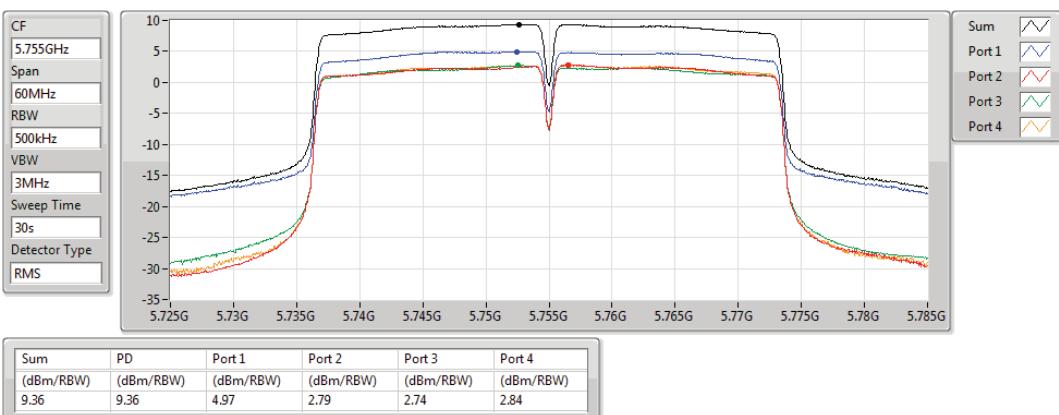
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

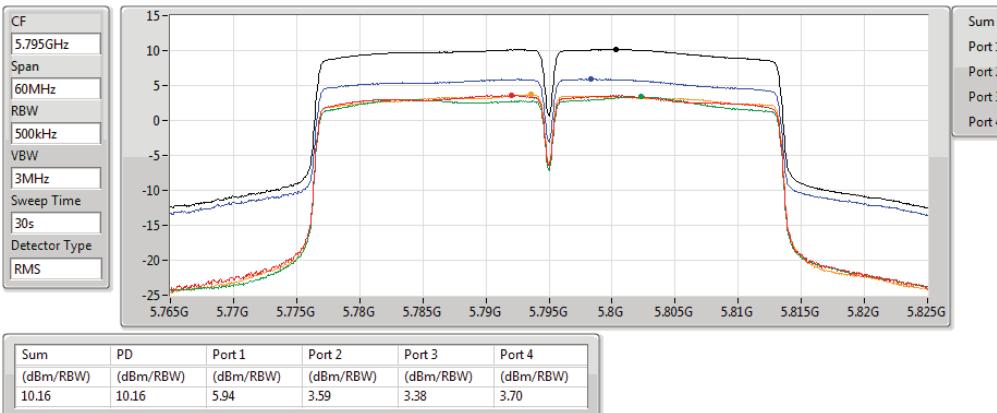
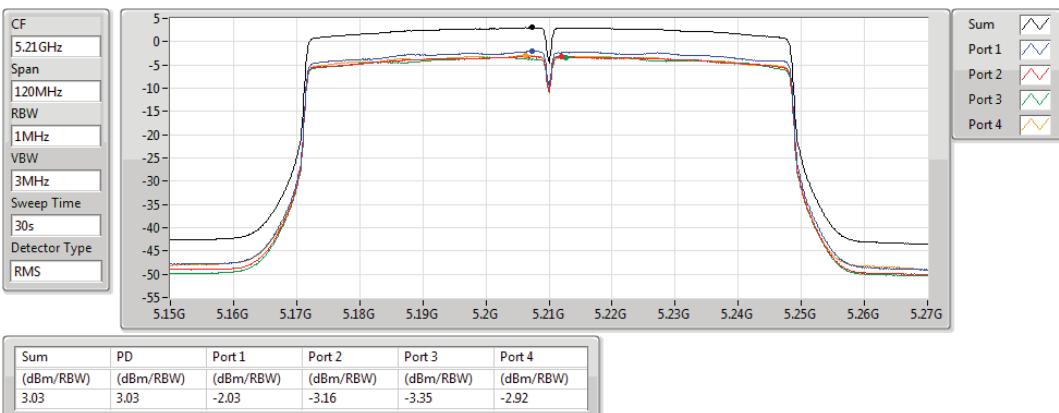
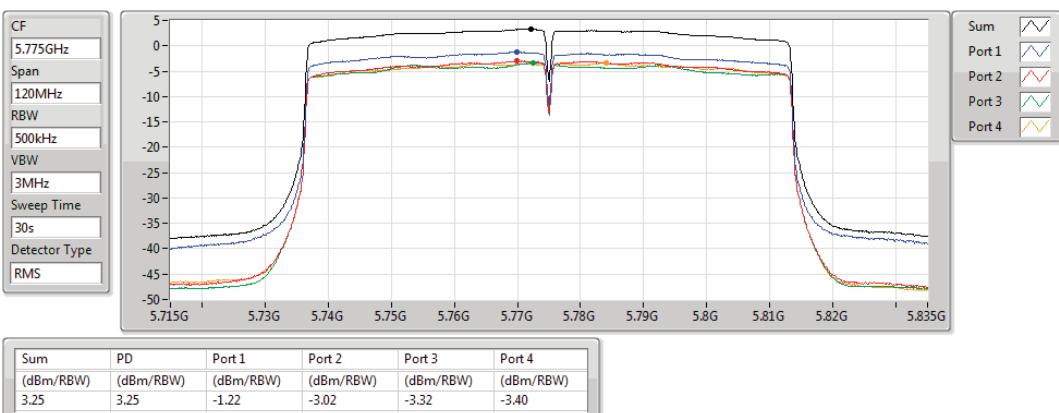
802.11a_Nss1,(6Mbps)_4TX
5180MHz

802.11a_Nss1,(6Mbps)_4TX
5200MHz

802.11a_Nss1,(6Mbps)_4TX
5240MHz


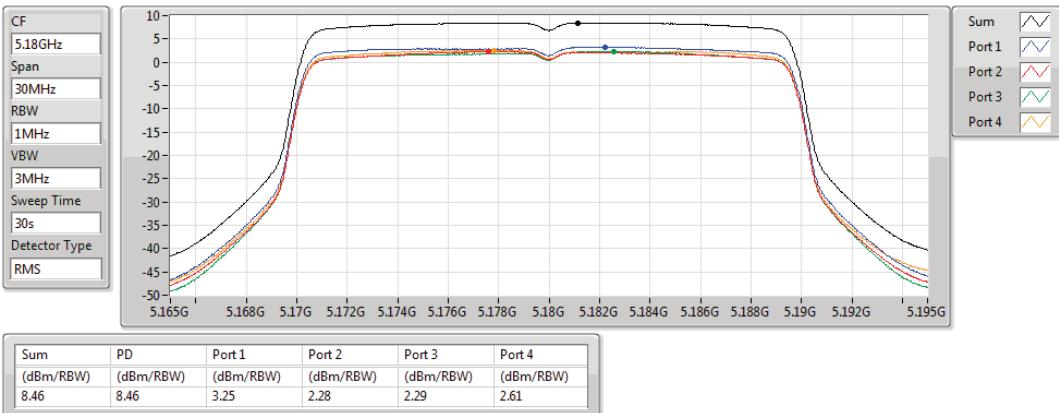
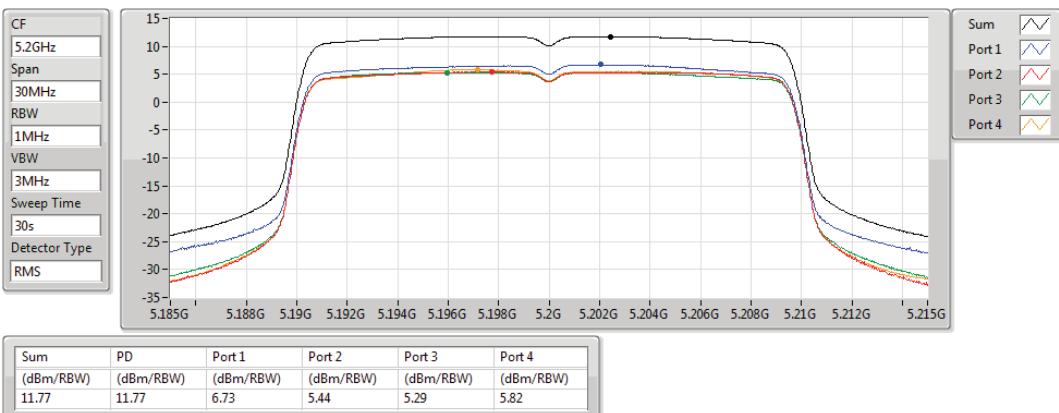
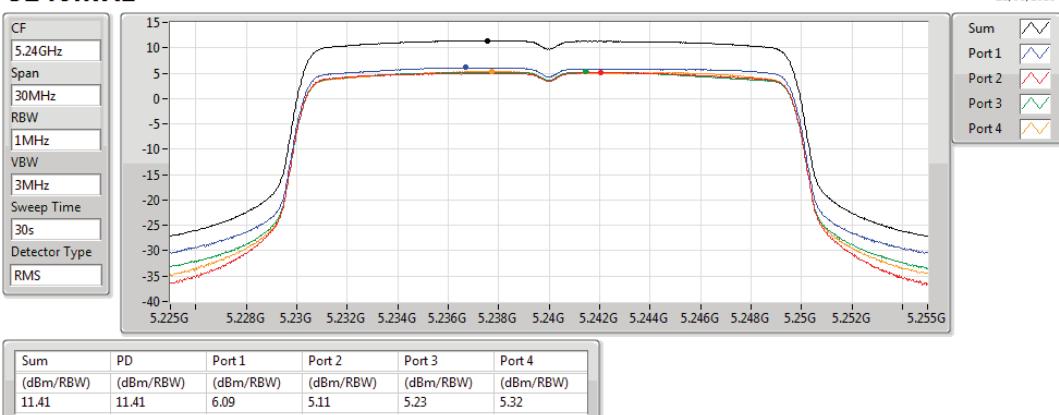
802.11a_Nss1,(6Mbps)_4TX
5745MHz

802.11a_Nss1,(6Mbps)_4TX
5785MHz

802.11a_Nss1,(6Mbps)_4TX
5825MHz


802.11ac VHT20_Nss1,(MCS0)_4TX
5180MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
5200MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
5240MHz


802.11ac VHT20_Nss1,(MCS0)_4TX
5745MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
5785MHz

802.11ac VHT20_Nss1,(MCS0)_4TX
5825MHz


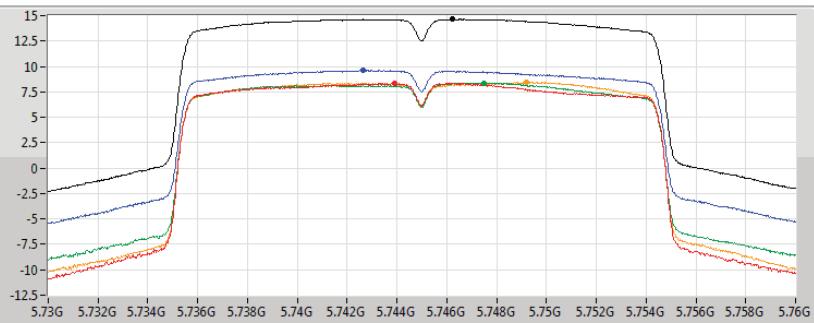
802.11ac VHT40_Nss1,(MCS0)_4TX
5190MHz

802.11ac VHT40_Nss1,(MCS0)_4TX
5230MHz

802.11ac VHT40_Nss1,(MCS0)_4TX
5755MHz


802.11ac VHT40_Nss1,(MCS0)_4TX
5795MHz

802.11ac VHT80_Nss1,(MCS0)_4TX
5210MHz

802.11ac VHT80_Nss1,(MCS0)_4TX
5775MHz


802.11ax HEW20_Nss1,(MCS0)_4TX
5180MHz

802.11ax HEW20_Nss1,(MCS0)_4TX
5200MHz

802.11ax HEW20_Nss1,(MCS0)_4TX
5240MHz


802.11ax HEW20_Nss1,(MCS0)_4TX
5745MHz

CF
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
30s
Detector Type
RMS

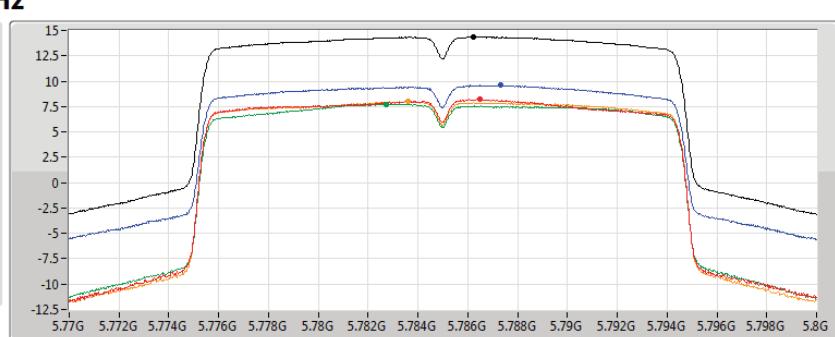

PSD

21/06/2019

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Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>
Port 3	<input type="checkbox"/>
Port 4	<input type="checkbox"/>

802.11ax HEW20_Nss1,(MCS0)_4TX
5785MHz

CF
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
30s
Detector Type
RMS

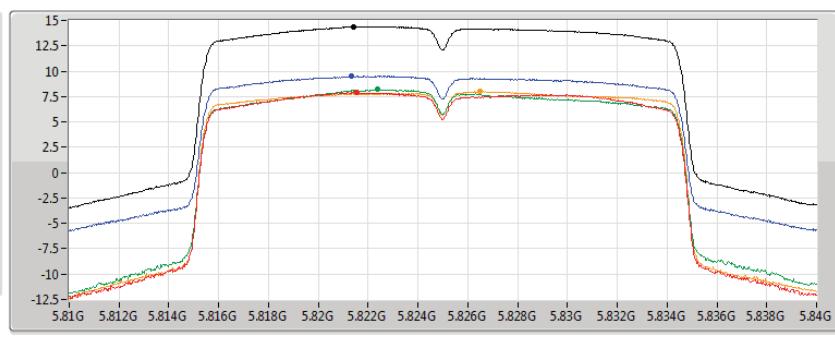

PSD

21/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>
Port 3	<input type="checkbox"/>
Port 4	<input type="checkbox"/>

802.11ax HEW20_Nss1,(MCS0)_4TX
5825MHz

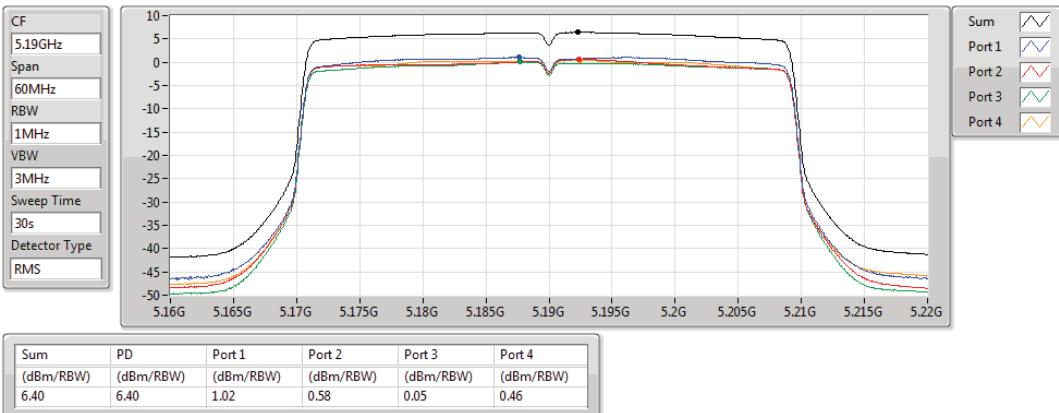
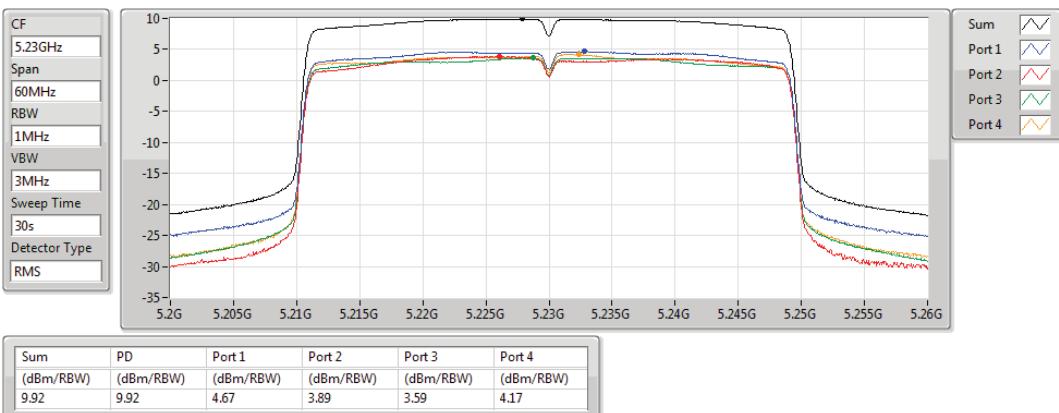
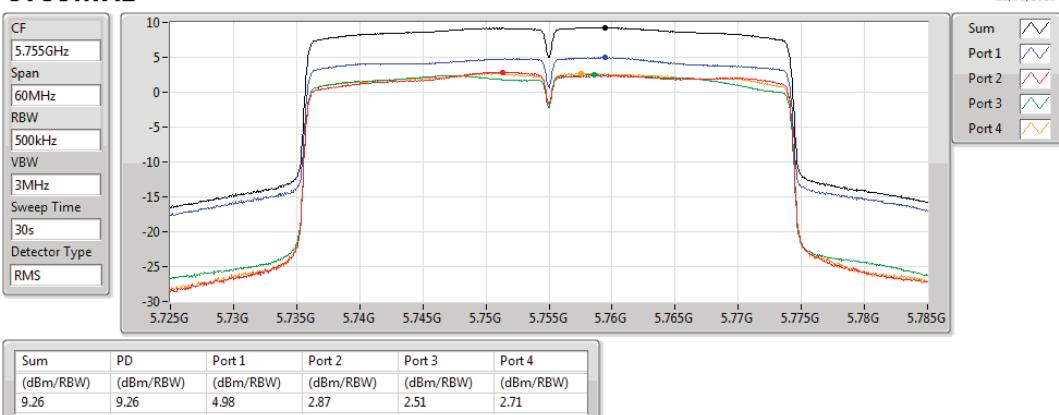
CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
30s
Detector Type
RMS

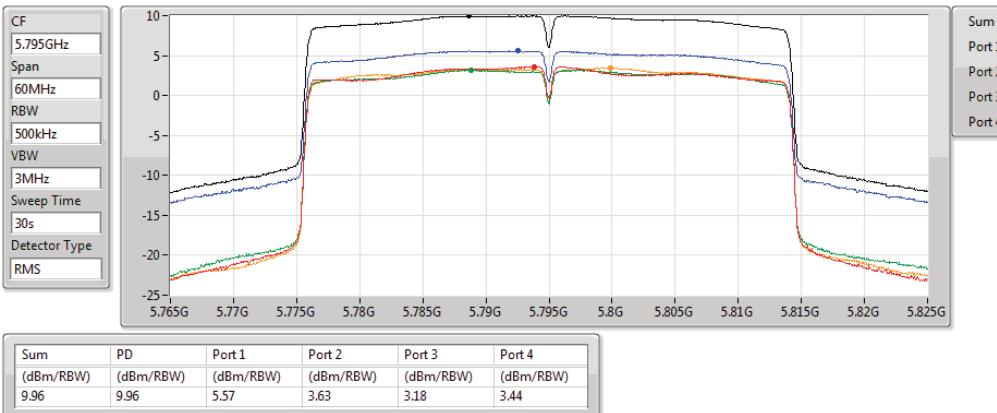

PSD

21/06/2019

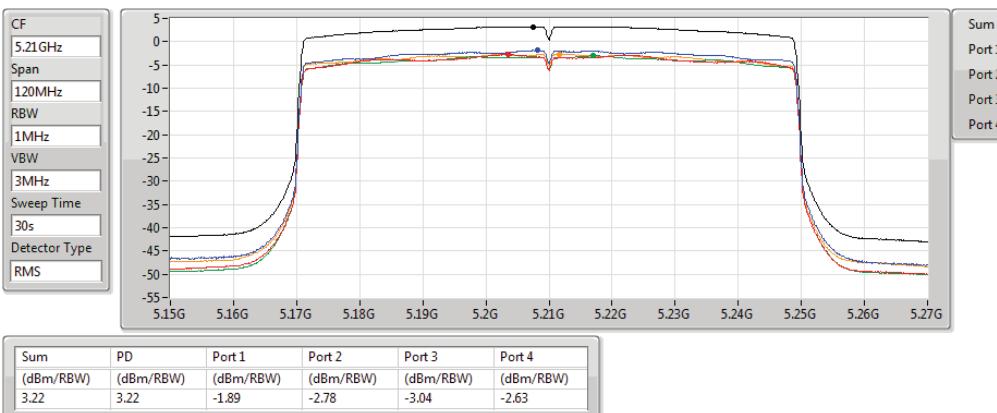
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Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>
Port 3	<input type="checkbox"/>
Port 4	<input type="checkbox"/>

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.39	14.39	9.51	7.91	8.19	7.99

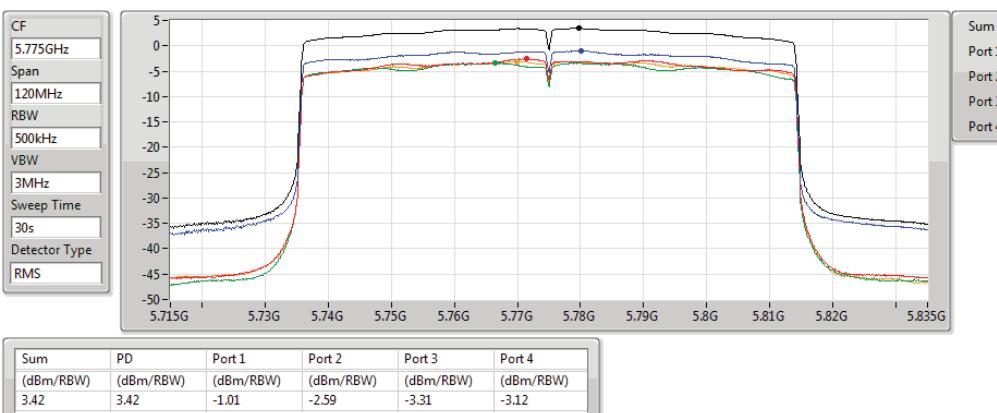
802.11ax HEW40_Nss1,(MCS0)_4TX
5190MHz

PSD
802.11ax HEW40_Nss1,(MCS0)_4TX
5230MHz

PSD
802.11ax HEW40_Nss1,(MCS0)_4TX
5755MHz

PSD

802.11ax HEW40_Nss1,(MCS0)_4TX
5795MHz

PSD

21/06/2019

802.11ax HEW80_Nss1,(MCS0)_4TX
5210MHz

PSD

21/06/2019

802.11ax HEW80_Nss1,(MCS0)_4TX
5775MHz

PSD

21/06/2019

**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	8.87	22.90
802.11ac VHT20_Nss1,(MCS0)_8TX	8.71	22.74
802.11ac VHT40_Nss1,(MCS0)_8TX	8.93	22.96
802.11ac VHT80_Nss1,(MCS0)_8TX	4.99	19.02
802.11ax HEW20_Nss1,(MCS0)_8TX	8.63	22.66
802.11ax HEW40_Nss1,(MCS0)_8TX	8.96	22.99
802.11ax HEW80_Nss1,(MCS0)_8TX	5.16	19.19
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	13.63	27.66
802.11ac VHT20_Nss1,(MCS0)_8TX	13.60	27.63
802.11ac VHT40_Nss1,(MCS0)_8TX	11.97	26.00
802.11ac VHT80_Nss1,(MCS0)_8TX	5.06	19.09
802.11ax HEW20_Nss1,(MCS0)_8TX	13.17	27.20
802.11ax HEW40_Nss1,(MCS0)_8TX	11.73	25.76
802.11ax HEW80_Nss1,(MCS0)_8TX	5.21	19.24

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	14.03	-0.43	0.72	-1.13	-0.77	0.58	-0.34	-0.52	-0.21	8.64	8.97	22.67	23.00
5200MHz	Pass	14.03	-0.20	1.03	-1.35	-0.45	0.90	-0.10	-0.05	-0.27	8.87	8.97	22.90	23.00
5240MHz	Pass	14.03	0.07	0.07	-1.17	-1.06	0.07	-0.66	-0.22	-0.41	8.49	8.97	22.52	23.00
5745MHz	Pass	14.03	4.24	6.08	3.01	4.28	6.16	4.54	4.17	4.49	13.63	21.97	27.66	36.00
5785MHz	Pass	14.03	3.94	5.95	3.20	3.65	5.70	3.88	3.91	4.12	13.18	21.97	27.21	36.00
5825MHz	Pass	14.03	3.81	5.51	2.93	4.27	5.63	3.95	3.96	4.10	13.18	21.97	27.21	36.00
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	14.03	-0.54	1.61	-1.24	-0.62	0.18	-0.77	-0.98	-0.61	8.58	8.97	22.61	23.00
5200MHz	Pass	14.03	-0.55	1.33	-1.40	-0.72	0.22	-0.65	-0.99	-0.65	8.49	8.97	22.52	23.00
5240MHz	Pass	14.03	-0.00	2.21	0.11	-0.73	-0.31	-0.84	-0.92	-0.70	8.71	8.97	22.74	23.00
5745MHz	Pass	14.03	4.57	6.18	3.86	4.04	5.95	4.47	4.38	4.61	13.60	21.97	27.63	36.00
5785MHz	Pass	14.03	4.12	5.64	3.53	3.81	5.72	3.98	3.99	4.12	13.26	21.97	27.29	36.00
5825MHz	Pass	14.03	4.20	5.20	3.80	3.97	5.83	4.17	3.83	4.13	13.34	21.97	27.37	36.00
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	14.03	0.22	1.71	-0.53	0.02	0.51	-0.46	-0.44	-0.03	8.93	8.97	22.96	23.00
5230MHz	Pass	14.03	0.56	2.21	-0.59	-0.21	0.16	-0.63	-0.75	-0.45	8.81	8.97	22.84	23.00
5755MHz	Pass	14.03	2.67	4.61	1.62	2.22	4.55	2.54	2.29	2.60	11.97	21.97	26.00	36.00
5795MHz	Pass	14.03	2.54	4.69	1.90	2.53	4.54	2.72	2.28	2.76	11.94	21.97	25.97	36.00
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	14.03	-3.36	-2.08	-4.75	-3.89	-3.49	-4.12	-4.37	-4.16	4.99	8.97	19.02	23.00
5775MHz	Pass	14.03	-4.29	-1.89	-5.17	-4.52	-2.29	-3.94	-4.31	-4.19	5.06	21.97	19.09	36.00
802.11ax HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	14.03	-0.10	1.38	-1.12	-0.13	0.45	-0.48	-0.52	-0.36	8.57	8.97	22.60	23.00
5200MHz	Pass	14.03	-0.02	1.13	-0.92	-0.10	0.75	-0.22	-0.44	-0.58	8.60	8.97	22.63	23.00
5240MHz	Pass	14.03	0.47	1.21	-1.23	-0.09	0.41	-0.20	-0.16	-0.04	8.63	8.97	22.66	23.00
5745MHz	Pass	14.03	3.88	5.43	3.19	4.07	5.65	4.06	4.07	3.77	13.17	21.97	27.20	36.00
5785MHz	Pass	14.03	3.64	5.44	2.62	3.81	5.35	4.28	3.62	3.77	12.98	21.97	27.01	36.00
5825MHz	Pass	14.03	3.64	5.16	2.78	4.04	5.15	4.09	3.57	3.51	12.96	21.97	26.99	36.00
802.11ax HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	14.03	-0.33	0.96	-2.24	-0.48	0.12	-0.81	-1.00	-0.94	8.19	8.97	22.22	23.00
5230MHz	Pass	14.03	0.04	1.64	-1.01	0.15	0.70	-0.88	-0.24	-0.23	8.96	8.97	22.99	23.00
5755MHz	Pass	14.03	2.25	4.33	1.53	2.02	4.31	2.15	2.10	2.34	11.54	21.97	25.57	36.00
5795MHz	Pass	14.03	2.20	4.44	1.77	2.40	4.45	2.27	2.13	2.41	11.73	21.97	25.76	36.00
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	14.03	-3.19	-2.29	-4.18	-3.64	-3.36	-3.96	-4.36	-3.87	5.16	8.97	19.19	23.00
5775MHz	Pass	14.03	-4.07	-1.79	-5.13	-4.42	-2.28	-3.74	-4.31	-3.96	5.21	21.97	19.24	36.00

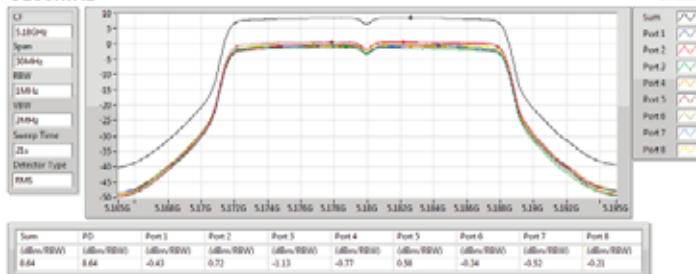
DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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



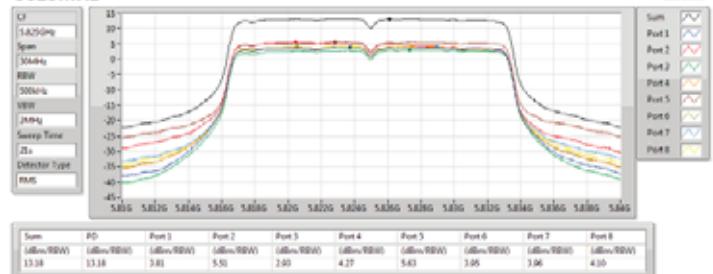
802.11a_Nss1,(6Mbps)_8TX

5180MHz



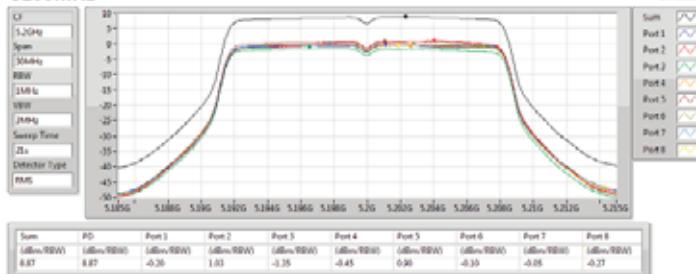
802.11a_Nss1,(6Mbps)_8TX

5825MHz



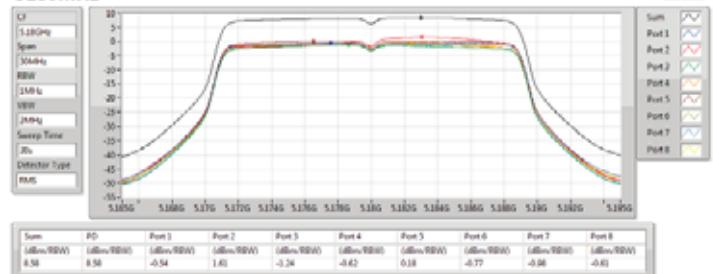
802.11a_Nss1,(6Mbps)_8TX

5200MHz



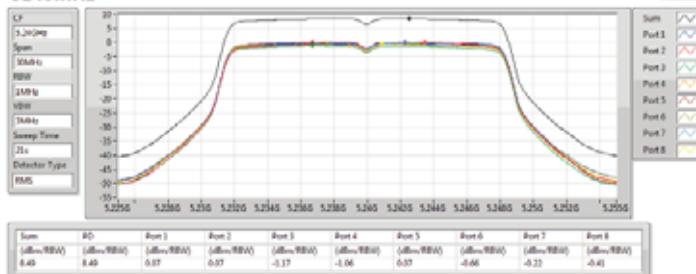
802.11ac VHT20_Nss1,(MCS0)_8TX

5180MHz



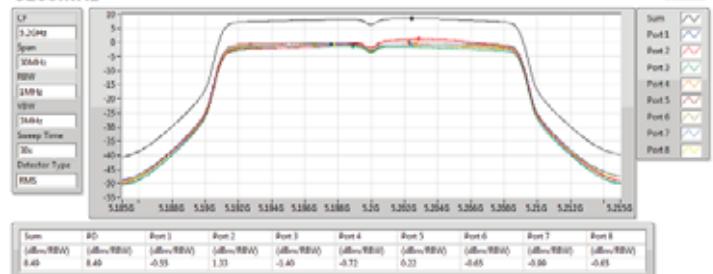
802.11a_Nss1,(6Mbps)_8TX

5240MHz



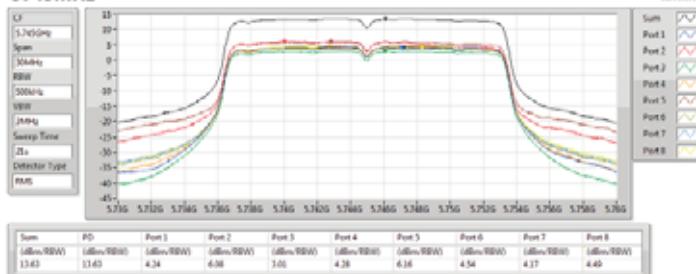
802.11ac VHT20_Nss1,(MCS0)_8TX

5200MHz



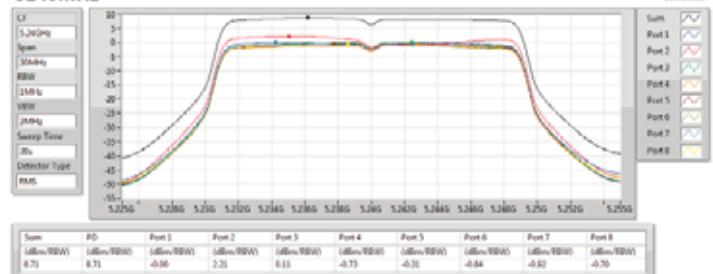
802.11a_Nss1,(6Mbps)_8TX

5745MHz



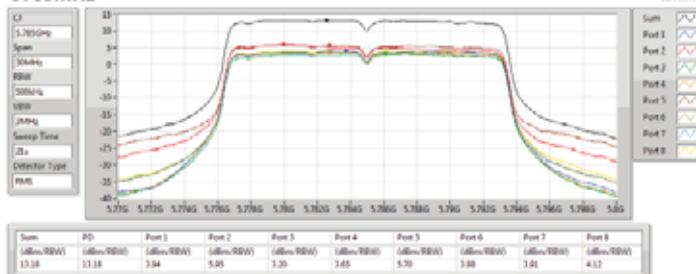
802.11ac VHT20_Nss1,(MCS0)_8TX

5240MHz



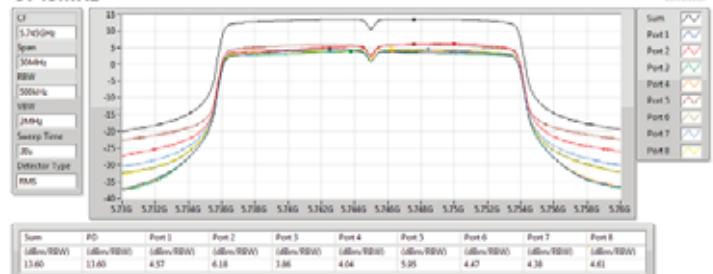
802.11a_Nss1,(6Mbps)_8TX

5785MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

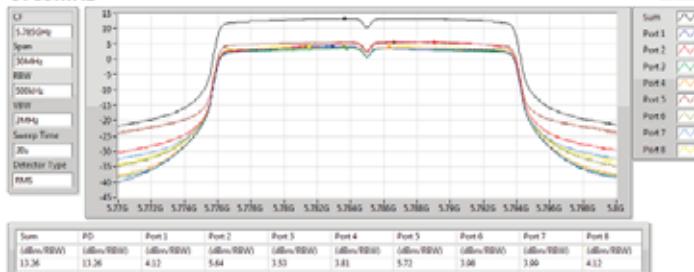
5745MHz





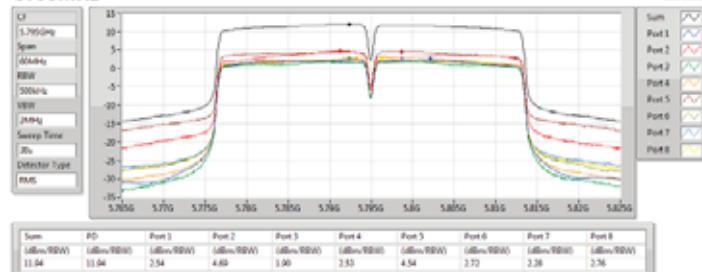
802.11ac VHT20_Nss1,(MCS0)_8TX

5785MHz



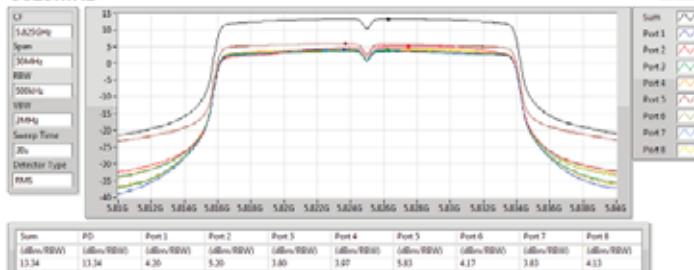
802.11ac VHT40_Nss1,(MCS0)_8TX

5795MHz



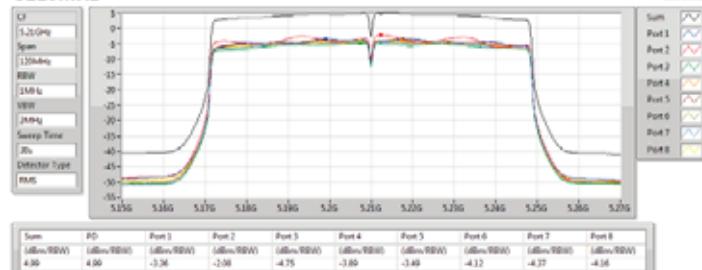
802.11ac VHT20_Nss1,(MCS0)_8TX

5825MHz



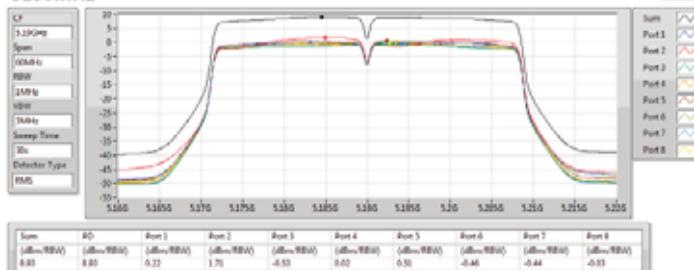
802.11ac VHT80_Nss1,(MCS0)_8TX

5210MHz



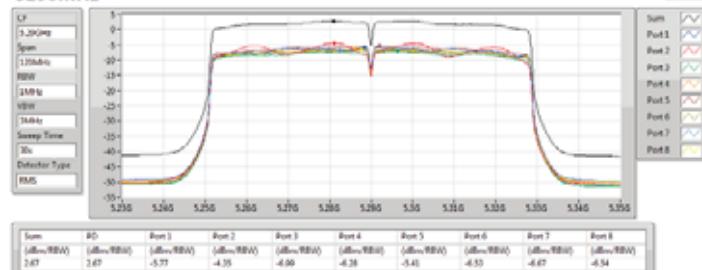
802.11ac VHT40_Nss1,(MCS0)_8TX

5190MHz



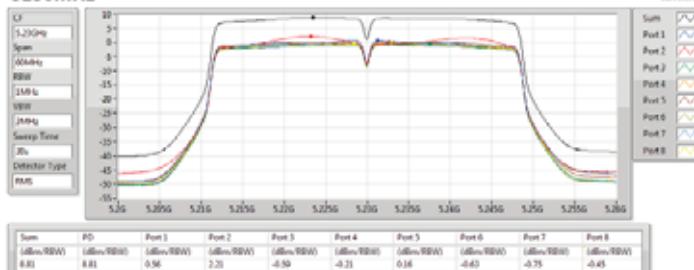
802.11ac VHT80_Nss1,(MCS0)_8TX

5290MHz



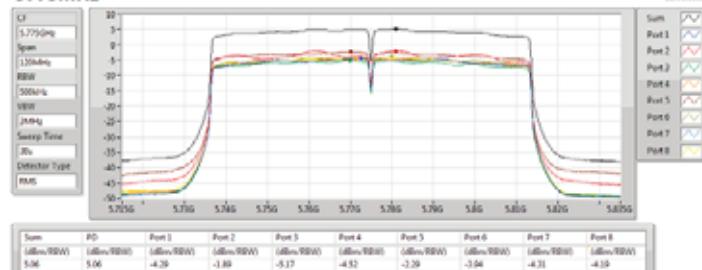
802.11ac VHT40_Nss1,(MCS0)_8TX

5230MHz



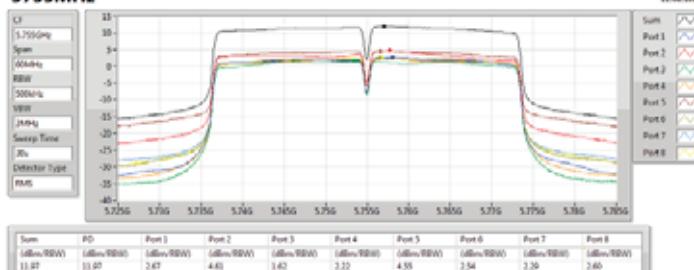
802.11ac VHT80_Nss1,(MCS0)_8TX

5775MHz



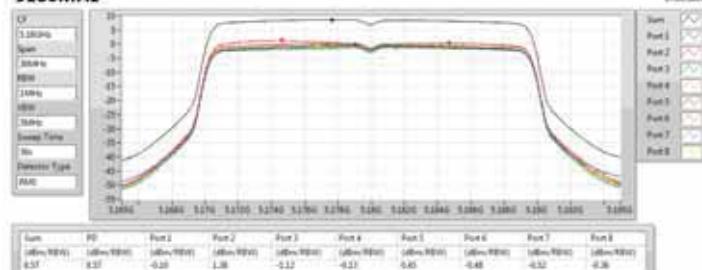
802.11ac VHT40_Nss1,(MCS0)_8TX

5755MHz



802.11ax HEW20_Nss1,(MCS0)_8TX

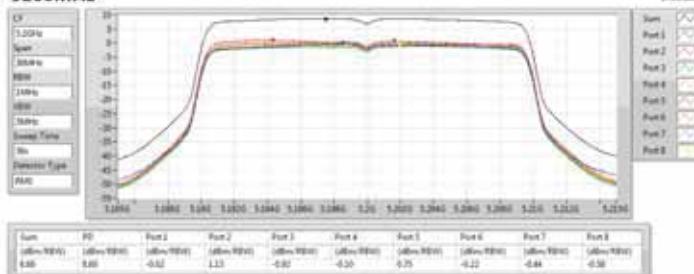
5180MHz





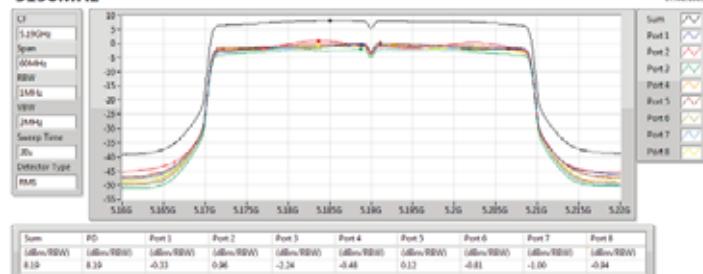
802.11ax HEW20_Nss1,(MCS0)_8TX

5200MHz



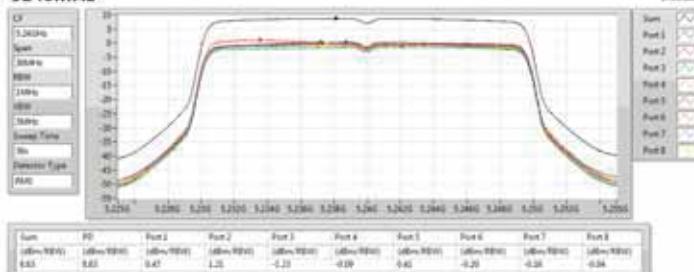
802.11ax HEW40_Nss1,(MCS0)_8TX

5190MHz



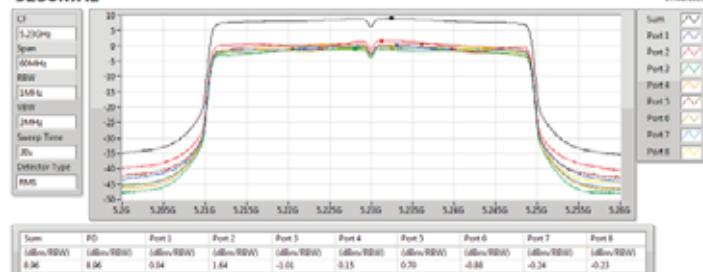
802.11ax HEW20_Nss1,(MCS0)_8TX

5240MHz



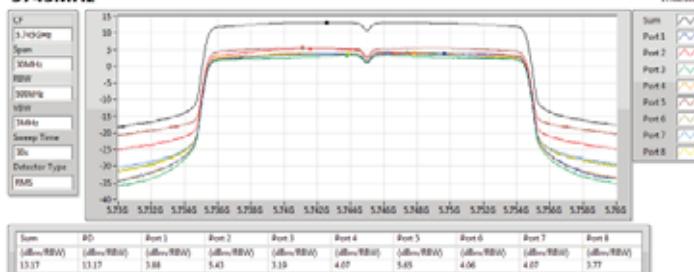
802.11ax HEW40_Nss1,(MCS0)_8TX

5230MHz



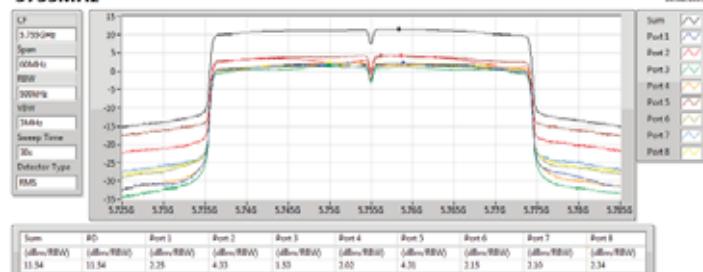
802.11ax HEW20_Nss1,(MCS0)_8TX

5745MHz



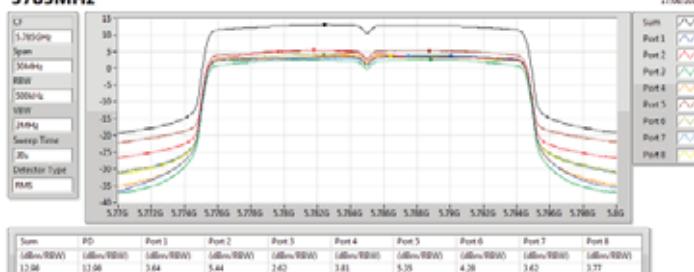
802.11ax HEW40_Nss1,(MCS0)_8TX

5755MHz



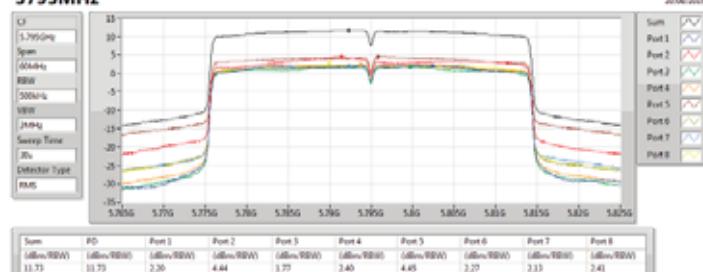
802.11ax HEW20_Nss1,(MCS0)_8TX

5785MHz



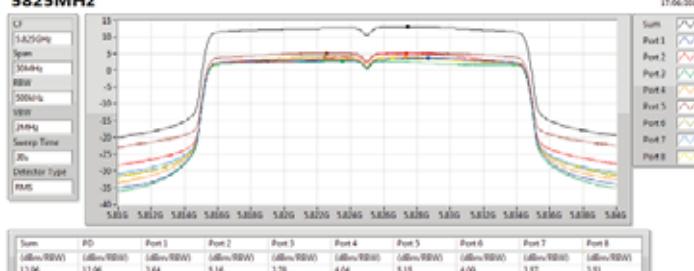
802.11ax HEW40_Nss1,(MCS0)_8TX

5795MHz



802.11ax HEW20_Nss1,(MCS0)_8TX

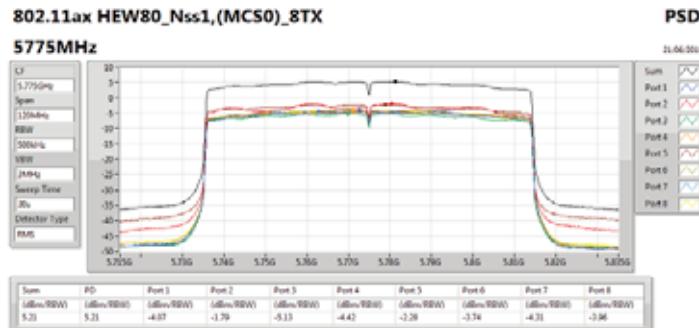
5825MHz



802.11ax HEW80_Nss1,(MCS0)_8TX

5210MHz





**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.80	19.81
802.11ac VHT20_Nss1,(MCS0)_2TX	11.38	19.39
802.11ac VHT40_Nss1,(MCS0)_2TX	7.23	15.24
802.11ac VHT80_Nss1,(MCS0)_2TX	-6.69	1.32
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.25	18.26
802.11ac VHT20_Nss1,(MCS0)_2TX	9.22	17.23
802.11ac VHT40_Nss1,(MCS0)_2TX	4.90	12.91
802.11ac VHT80_Nss1,(MCS0)_2TX	1.07	9.08

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



Result

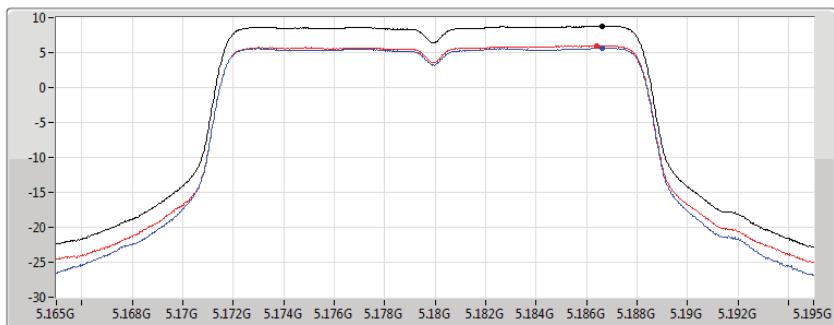
Mode	Result	DG (dB)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	8.01	5.67	5.97	8.81	14.99	16.82	23.00
5200MHz_TnomVnom	Pass	8.01	8.76	8.84	11.80	14.99	19.81	23.00
5240MHz_TnomVnom	Pass	8.01	8.50	8.69	11.58	14.99	19.59	23.00
5745MHz_TnomVnom	Pass	8.01	4.00	4.93	7.45	27.99	15.46	36.00
5785MHz_TnomVnom	Pass	8.01	6.90	7.60	10.25	27.99	18.26	36.00
5825MHz_TnomVnom	Pass	8.01	0.08	1.07	3.61	27.99	11.62	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz_TnomVnom	Pass	8.01	6.71	6.92	9.80	14.99	17.81	23.00
5200MHz_TnomVnom	Pass	8.01	8.30	8.47	11.38	14.99	19.39	23.00
5240MHz_TnomVnom	Pass	8.01	7.70	8.09	10.86	14.99	18.87	23.00
5745MHz_TnomVnom	Pass	8.01	1.54	2.67	5.07	27.99	13.08	36.00
5785MHz_TnomVnom	Pass	8.01	5.91	6.52	9.22	27.99	17.23	36.00
5825MHz_TnomVnom	Pass	8.01	5.84	6.31	9.06	27.99	17.07	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz_TnomVnom	Pass	8.01	-1.74	-1.15	1.54	14.99	9.55	23.00
5230MHz_TnomVnom	Pass	8.01	3.94	4.53	7.23	14.99	15.24	23.00
5755MHz_TnomVnom	Pass	8.01	0.54	0.98	3.72	27.99	11.73	36.00
5795MHz_TnomVnom	Pass	8.01	1.54	2.25	4.90	27.99	12.91	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz_TnomVnom	Pass	8.01	-10.40	-9.08	-6.69	14.99	1.32	23.00
5775MHz_TnomVnom	Pass	8.01	-2.23	-1.35	1.07	27.99	9.08	36.00

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

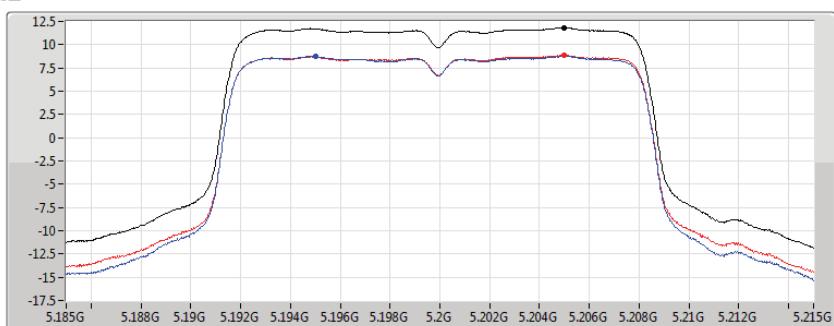
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX
5180MHz

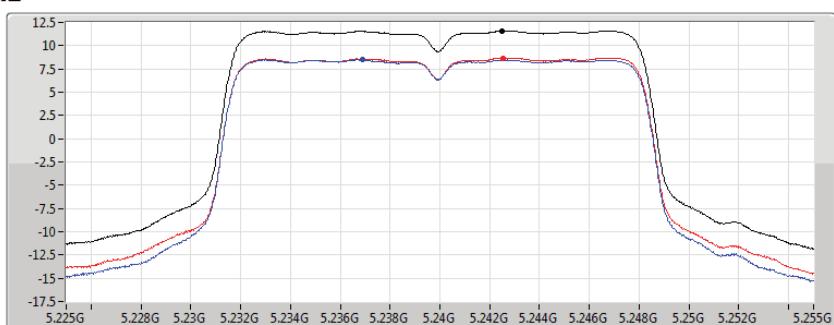
CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
21.4s
Detector Type
RMS


PSD
802.11a_Nss1,(6Mbps)_2TX
5200MHz

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
21.4s
Detector Type
RMS

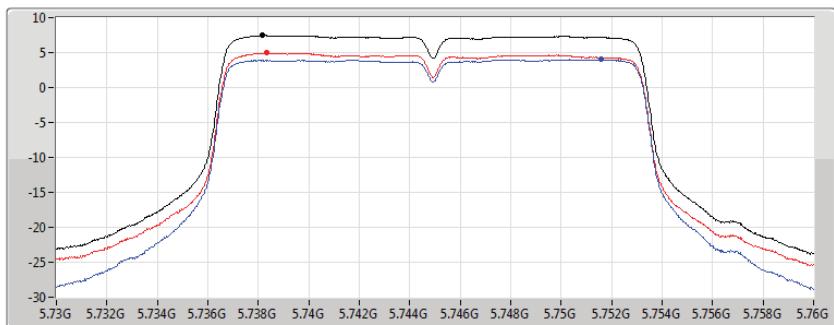

PSD
802.11a_Nss1,(6Mbps)_2TX
5240MHz

CF
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
21.4s
Detector Type
RMS


PSD

802.11a_Nss1,(6Mbps)_2TX
5745MHz

CF
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
21.4s
Detector Type
RMS

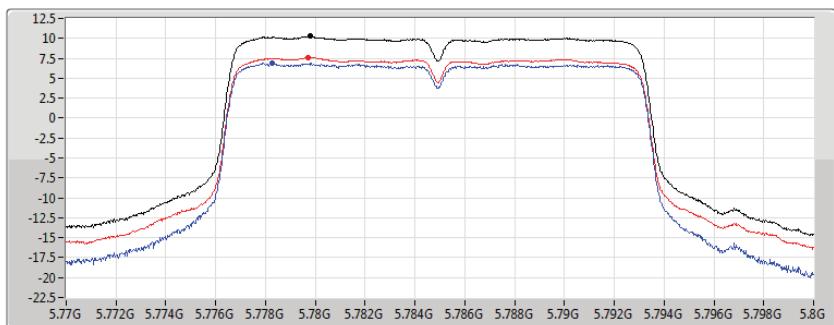

PSD

23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11a_Nss1,(6Mbps)_2TX
5785MHz

CF
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
21.4s
Detector Type
RMS

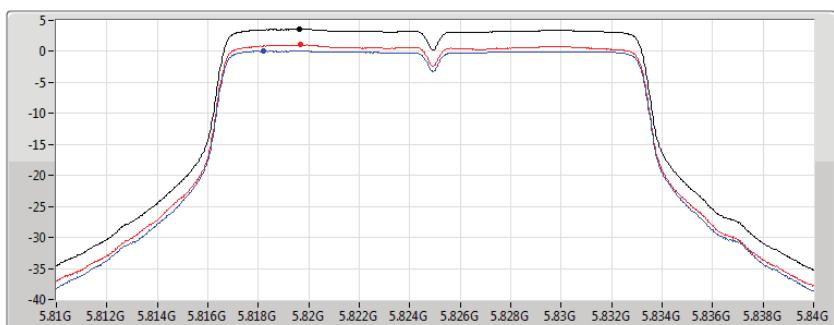

PSD

23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11a_Nss1,(6Mbps)_2TX
5825MHz

CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
21.4s
Detector Type
RMS


PSD

23/06/2019

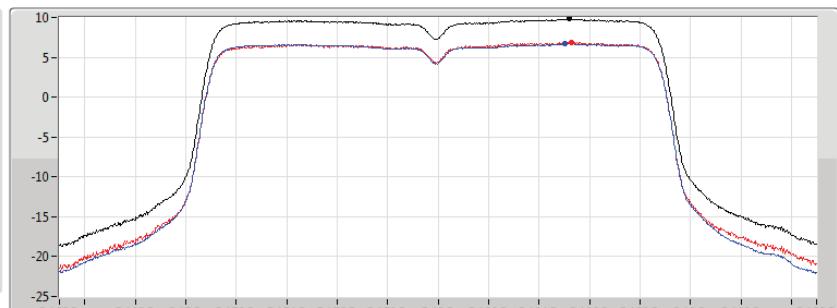
Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

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

3.61	3.61	0.08	1.07
------	------	------	------

802.11ac VHT20_Nss1,(MCS0)_2TX
5180MHz

CF
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20.1s
Detector Type
RMS

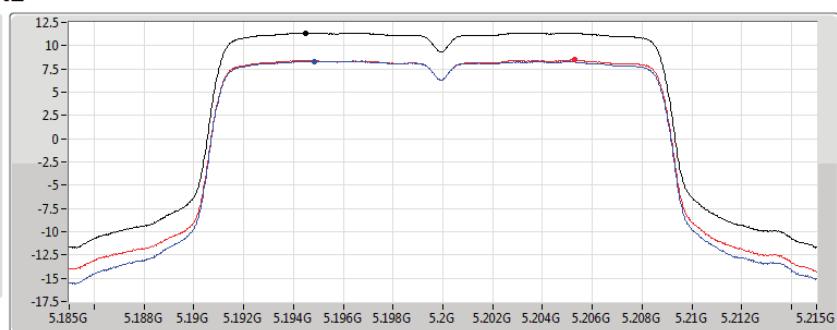

PSD

23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11ac VHT20_Nss1,(MCS0)_2TX
5200MHz

CF
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20.1s
Detector Type
RMS

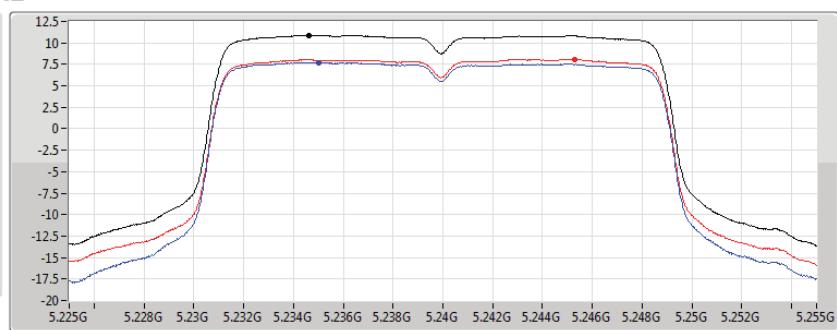

PSD

23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11ac VHT20_Nss1,(MCS0)_2TX
5240MHz

CF
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20.1s
Detector Type
RMS


PSD

23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

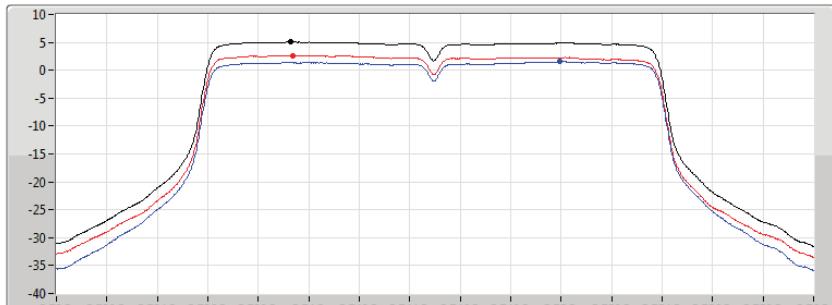
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.80	9.80	6.71	6.92

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.38	11.38	8.30	8.47

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.86	10.86	7.70	8.09

802.11ac VHT20_Nss1,(MCS0)_2TX
5745MHz

CF
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20.1s
Detector Type
RMS

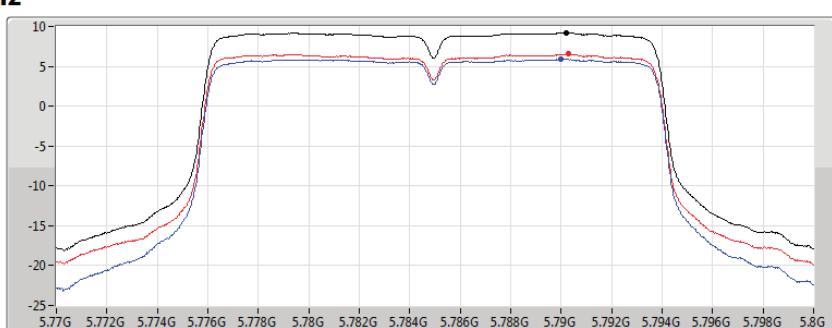

PSD

23/06/2019

Sum
Port 1
Port 2

802.11ac VHT20_Nss1,(MCS0)_2TX
5785MHz

CF
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20.1s
Detector Type
RMS

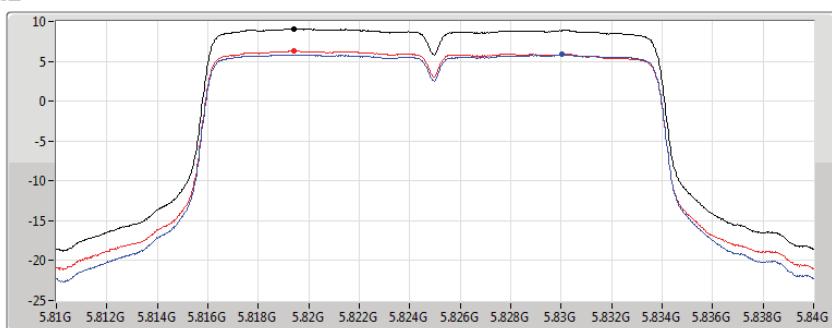

PSD

23/06/2019

Sum
Port 1
Port 2

802.11ac VHT20_Nss1,(MCS0)_2TX
5825MHz

CF
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20.1s
Detector Type
RMS


PSD

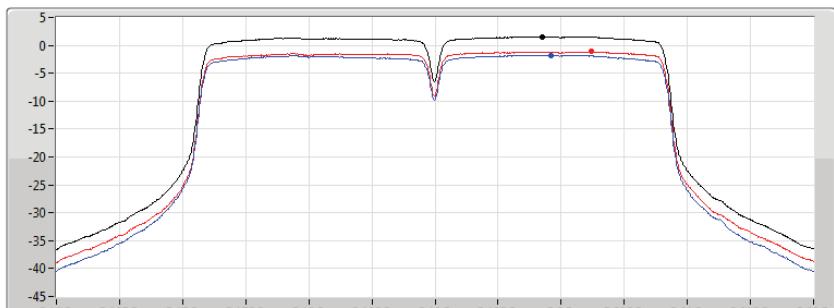
23/06/2019

Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.06	9.06	5.84	6.31

802.11ac VHT40_Nss1,(MCS0)_2TX
5190MHz

CF
5.19GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
10.2s
Detector Type
RMS


PSD

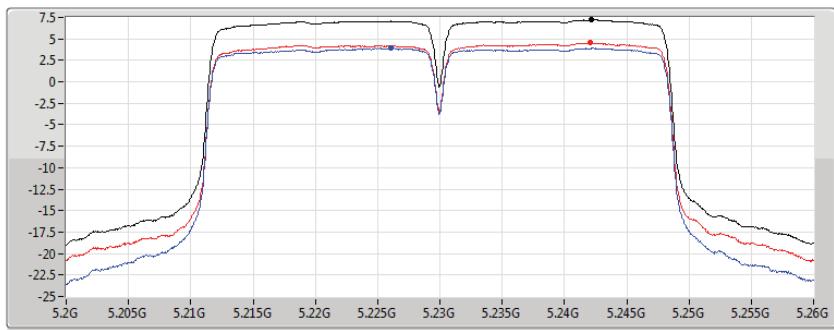
23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.54	1.54	-1.74	-1.15

802.11ac VHT40_Nss1,(MCS0)_2TX
5230MHz

CF
5.23GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
10.2s
Detector Type
RMS


PSD

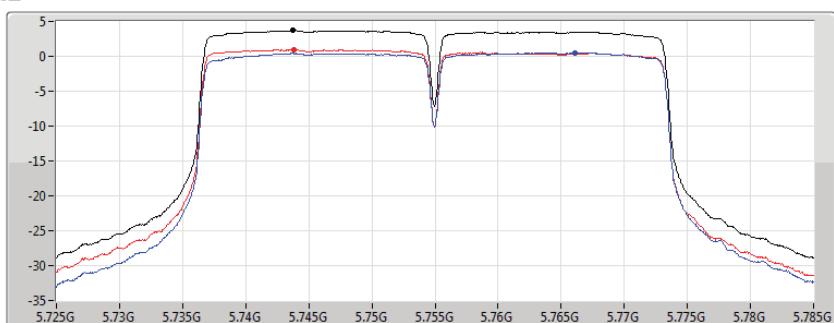
23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.23	7.23	3.94	4.53

802.11ac VHT40_Nss1,(MCS0)_2TX
5755MHz

CF
5.755GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
10.2s
Detector Type
RMS


PSD

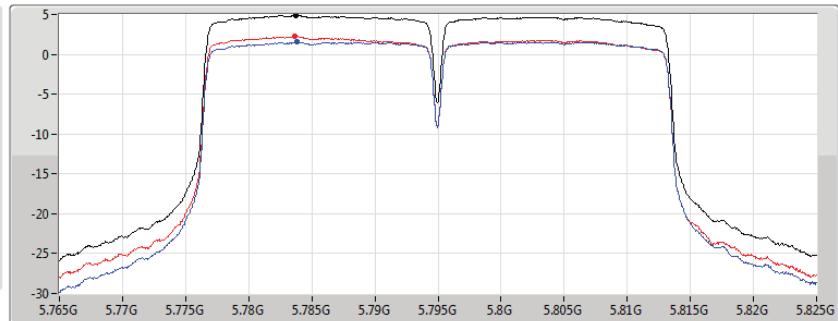
23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.72	3.72	0.54	0.98

802.11ac VHT40_Nss1,(MCS0)_2TX
5795MHz

CF
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
10.2s
Detector Type
RMS

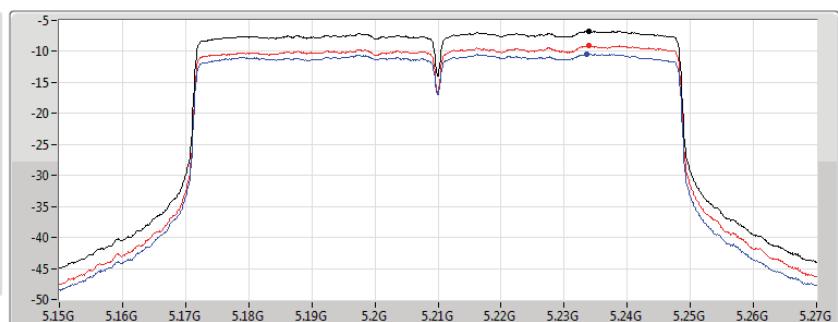

PSD

23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11ac VHT80_Nss1,(MCS0)_2TX
5210MHz

CF
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
5.32s
Detector Type
RMS

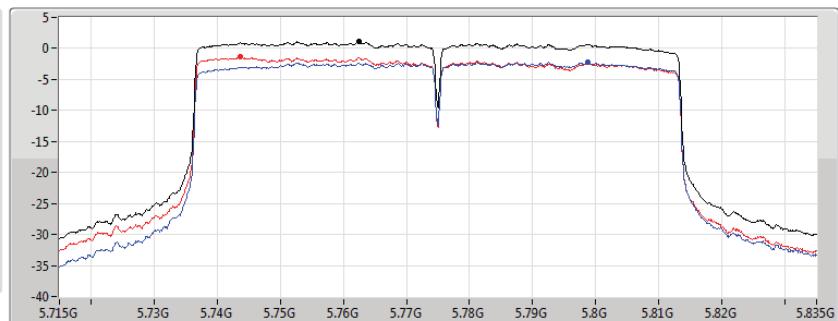

PSD

23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

802.11ac VHT80_Nss1,(MCS0)_2TX
5775MHz

CF
5.775GHz
Span
120MHz
RBW
500kHz
VBW
3MHz
Sweep Time
5.32s
Detector Type
RMS


PSD

23/06/2019

Sum	<input checked="" type="checkbox"/>
Port 1	<input type="checkbox"/>
Port 2	<input type="checkbox"/>

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.90	4.90	1.54	2.25

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.69	-6.69	-10.40	-9.08

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.07	1.07	-2.23	-1.35

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	PK	43.58M	32.01	40.00	-7.99	-11.29	3	Horizontal	360	1.00	-

**Result**

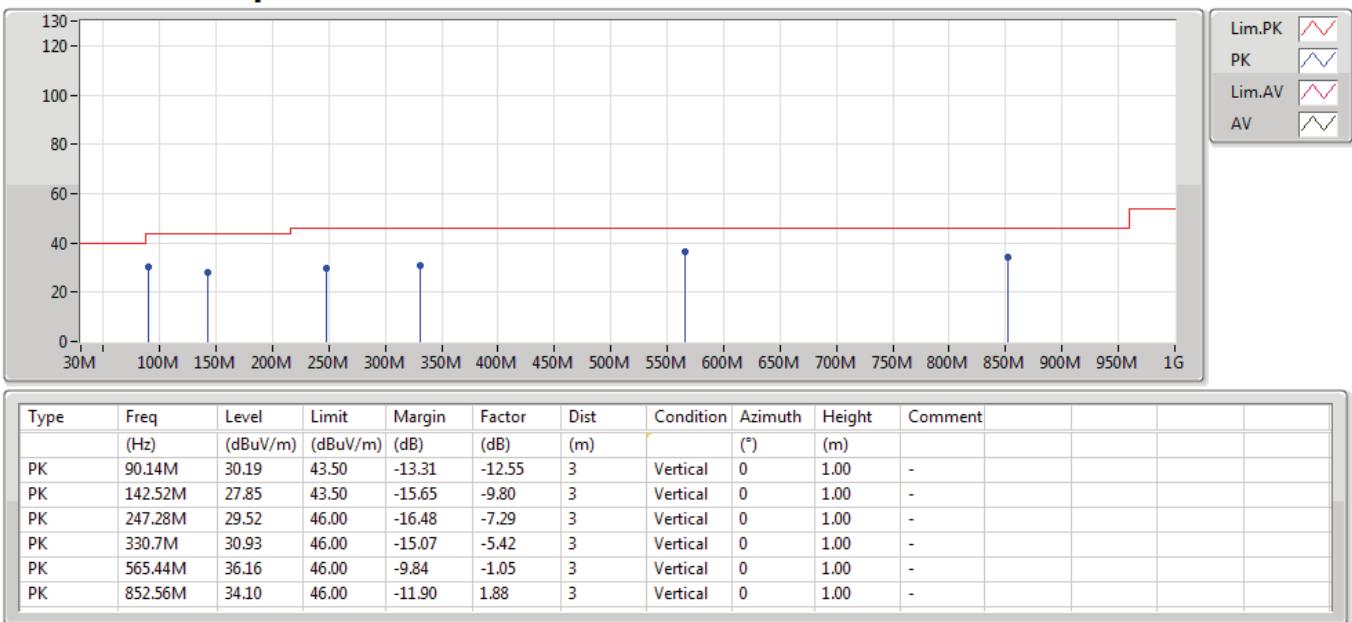
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	90.14M	30.19	43.50	-13.31	-12.55	3	Vertical	0	1.00	-
5775MHz	Pass	PK	142.52M	27.85	43.50	-15.65	-9.80	3	Vertical	0	1.00	-
5775MHz	Pass	PK	247.28M	29.52	46.00	-16.48	-7.29	3	Vertical	0	1.00	-
5775MHz	Pass	PK	330.7M	30.93	46.00	-15.07	-5.42	3	Vertical	0	1.00	-
5775MHz	Pass	PK	565.44M	36.16	46.00	-9.84	-1.05	3	Vertical	0	1.00	-
5775MHz	Pass	PK	852.56M	34.10	46.00	-11.90	1.88	3	Vertical	0	1.00	-
5775MHz	Pass	PK	43.58M	32.01	40.00	-7.99	-11.29	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	198.78M	30.02	43.50	-13.48	-10.65	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	284.14M	31.72	46.00	-14.28	-6.22	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	445.16M	34.20	46.00	-11.80	-2.96	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	687.66M	35.02	46.00	-10.98	-0.24	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	870.02M	36.37	46.00	-9.63	2.08	3	Horizontal	360	1.00	-



802.11ax HEW80_Nss1,(MCS0)_4TX

20/06/2019

5775MHz_Adapter

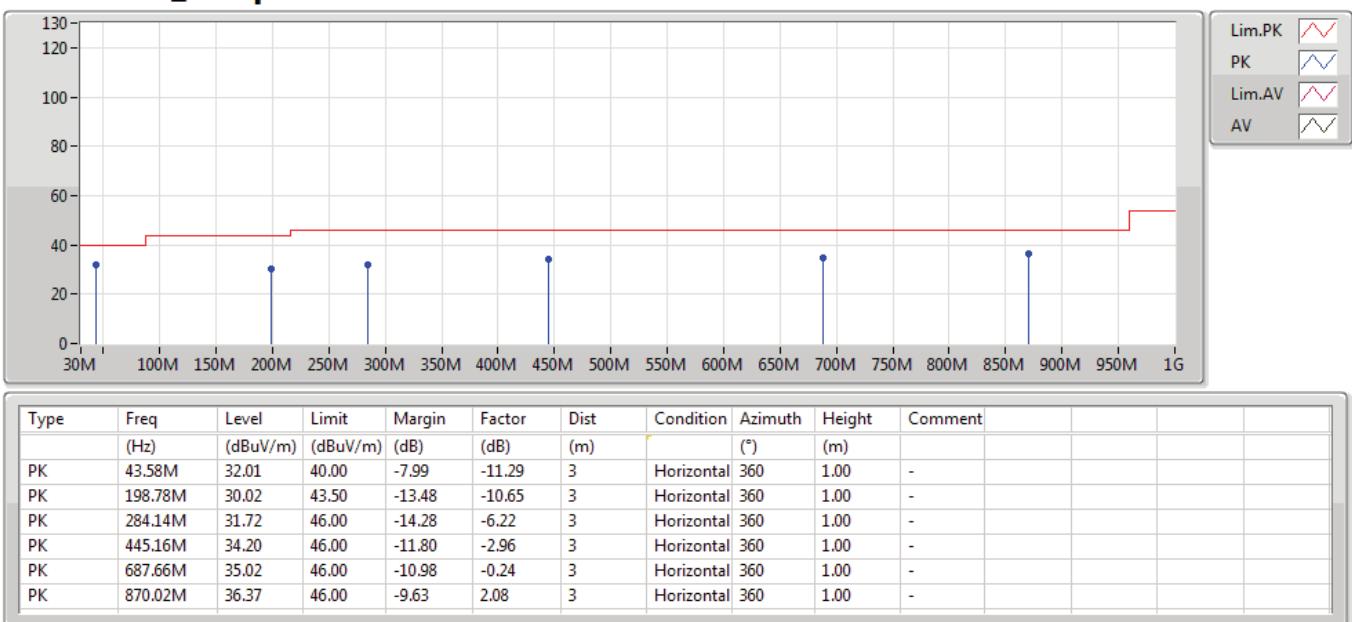




802.11ax HEW80_Nss1,(MCS0)_4TX

5775MHz_Adapter

20/06/2019



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	PK	10.47862G	67.83	68.20	-0.37	15.07	3	Horizontal	67	1.45	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	PK	10.36066G	67.86	68.20	-0.34	14.80	3	Vertical	28	1.94	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	AV	5.15G	53.56	54.00	-0.44	9.06	3	Vertical	8	1.92	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	AV	5.144G	53.86	54.00	-0.14	9.05	3	Horizontal	7	2.02	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	PK	5.6502G	65.78	68.35	-2.57	5.24	3	Horizontal	13	1.24	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	PK	5.6454G	67.66	68.20	-0.54	5.23	3	Horizontal	359	2.35	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	PK	5.6446G	67.75	68.20	-0.45	9.94	3	Horizontal	340	2.17	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	PK	5.6382G	67.55	68.20	-0.65	9.93	3	Horizontal	337	2.71	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1472G	46.01	54.00	-7.99	4.36	3	Vertical	0	1.91	-
5180MHz	Pass	AV	5.1858G	105.64	Inf	-Inf	4.43	3	Vertical	0	1.91	-
5180MHz	Pass	PK	5.1456G	58.26	74.00	-15.74	4.36	3	Vertical	0	1.91	-
5180MHz	Pass	PK	5.1858G	115.55	Inf	-Inf	4.43	3	Vertical	0	1.91	-
5180MHz	Pass	AV	5.15G	44.73	54.00	-9.27	4.37	3	Horizontal	342	1.39	-
5180MHz	Pass	AV	5.1752G	105.44	Inf	-Inf	4.42	3	Horizontal	342	1.39	-
5180MHz	Pass	PK	5.1328G	57.84	74.00	-16.16	4.33	3	Horizontal	342	1.39	-
5180MHz	Pass	PK	5.1742G	114.93	Inf	-Inf	4.42	3	Horizontal	342	1.39	-
5180MHz	Pass	PK	10.35796G	64.94	68.20	-3.26	14.80	3	Vertical	2	2.34	-
5180MHz	Pass	PK	10.36216G	67.36	68.20	-0.84	14.80	3	Horizontal	64	1.50	-
5200MHz	Pass	AV	5.1452G	46.99	54.00	-7.01	4.36	3	Vertical	0	1.44	-
5200MHz	Pass	AV	5.204G	111.42	Inf	-Inf	4.46	3	Vertical	0	1.44	-
5200MHz	Pass	PK	5.1448G	62.35	74.00	-11.65	4.36	3	Vertical	0	1.44	-
5200MHz	Pass	PK	5.204G	120.89	Inf	-Inf	4.46	3	Vertical	0	1.44	-
5200MHz	Pass	AV	5.144G	47.35	54.00	-6.65	4.36	3	Horizontal	21	2.15	-
5200MHz	Pass	AV	5.204G	111.81	Inf	-Inf	4.46	3	Horizontal	21	2.15	-
5200MHz	Pass	PK	5.1448G	62.55	74.00	-11.45	4.36	3	Horizontal	21	2.15	-
5200MHz	Pass	PK	5.2036G	121.22	Inf	-Inf	4.46	3	Horizontal	21	2.15	-
5200MHz	Pass	PK	10.41122G	67.66	68.20	-0.54	14.91	3	Vertical	29	2.05	-
5200MHz	Pass	PK	10.38722G	56.48	68.20	-11.72	14.85	3	Horizontal	264	1.51	-
5240MHz	Pass	AV	5.1392G	44.84	54.00	-9.16	4.35	3	Vertical	23	2.98	-
5240MHz	Pass	AV	5.2346G	107.90	Inf	-Inf	4.51	3	Vertical	23	2.98	-
5240MHz	Pass	AV	5.3822G	45.22	54.00	-8.78	4.77	3	Vertical	23	2.98	-
5240MHz	Pass	PK	5.1008G	56.88	74.00	-17.12	4.28	3	Vertical	23	2.98	-
5240MHz	Pass	PK	5.2334G	117.64	Inf	-Inf	4.51	3	Vertical	23	2.98	-
5240MHz	Pass	PK	5.3804G	57.14	74.00	-16.86	4.77	3	Vertical	23	2.98	-
5240MHz	Pass	AV	5.1476G	44.80	54.00	-9.20	4.36	3	Horizontal	347	1.53	-
5240MHz	Pass	AV	5.2352G	107.79	Inf	-Inf	4.51	3	Horizontal	347	1.53	-
5240MHz	Pass	AV	5.3528G	45.24	54.00	-8.76	4.72	3	Horizontal	347	1.53	-
5240MHz	Pass	PK	5.0984G	57.34	74.00	-16.66	4.28	3	Horizontal	347	1.53	-
5240MHz	Pass	PK	5.2352G	117.36	Inf	-Inf	4.51	3	Horizontal	347	1.53	-
5240MHz	Pass	PK	5.3816G	57.62	74.00	-16.38	4.77	3	Horizontal	347	1.53	-
5240MHz	Pass	PK	10.47862G	59.87	68.20	-8.33	15.07	3	Vertical	50	2.58	-
5240MHz	Pass	PK	10.47862G	67.83	68.20	-0.37	15.07	3	Horizontal	67	1.45	-
5745MHz	Pass	AV	5.739G	113.62	Inf	-Inf	5.40	3	Vertical	350	2.19	-
5745MHz	Pass	PK	5.6442G	64.51	68.20	-3.69	5.23	3	Vertical	350	2.19	-
5745MHz	Pass	PK	5.739G	123.98	Inf	-Inf	5.40	3	Vertical	350	2.19	-
5745MHz	Pass	PK	5.9586G	58.89	68.20	-9.31	5.80	3	Vertical	350	2.19	-
5745MHz	Pass	AV	5.739G	114.78	Inf	-Inf	5.40	3	Horizontal	13	1.24	-
5745MHz	Pass	PK	5.6502G	65.78	68.35	-2.57	5.24	3	Horizontal	13	1.24	-
5745MHz	Pass	PK	5.739G	125.70	Inf	-Inf	5.40	3	Horizontal	13	1.24	-
5745MHz	Pass	PK	5.979G	58.76	68.20	-9.44	5.83	3	Horizontal	13	1.24	-
5745MHz	Pass	AV	11.48994G	45.02	54.00	-8.98	15.79	3	Vertical	27	1.01	-
5745MHz	Pass	PK	11.47866G	64.31	74.00	-9.69	15.81	3	Vertical	27	1.01	-
5745MHz	Pass	AV	11.48994G	46.78	54.00	-7.22	15.79	3	Horizontal	72	2.21	-
5745MHz	Pass	PK	11.47866G	66.65	74.00	-7.35	15.81	3	Horizontal	72	2.21	-
5785MHz	Pass	AV	5.7778G	111.07	Inf	-Inf	5.47	3	Vertical	330	1.31	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5785MHz	Pass	PK	5.6266G	58.04	68.20	-10.16	5.20	3	Vertical	330	1.31	-
5785MHz	Pass	PK	5.7778G	121.28	Inf	-Inf	5.47	3	Vertical	330	1.31	-
5785MHz	Pass	PK	5.9326G	58.29	68.20	-9.91	5.75	3	Vertical	330	1.31	-
5785MHz	Pass	AV	5.791G	113.46	Inf	-Inf	5.49	3	Horizontal	10	1.49	-
5785MHz	Pass	PK	5.6002G	58.67	68.20	-9.53	5.15	3	Horizontal	10	1.49	-
5785MHz	Pass	PK	5.791G	123.76	Inf	-Inf	5.49	3	Horizontal	10	1.49	-
5785MHz	Pass	PK	5.9254G	58.89	68.20	-9.31	5.74	3	Horizontal	10	1.49	-
5785MHz	Pass	AV	11.56994G	44.74	54.00	-9.26	15.72	3	Vertical	32	1.47	-
5785MHz	Pass	PK	11.5574G	65.41	74.00	-8.59	15.72	3	Vertical	32	1.47	-
5785MHz	Pass	AV	11.56988G	47.69	54.00	-6.31	15.72	3	Horizontal	337	2.26	-
5785MHz	Pass	PK	11.5586G	59.27	74.00	-14.73	15.73	3	Horizontal	337	2.26	-
5825MHz	Pass	AV	5.819G	113.06	Inf	-Inf	5.55	3	Vertical	347	1.53	-
5825MHz	Pass	PK	5.5358G	58.32	68.20	-9.88	5.03	3	Vertical	347	1.53	-
5825MHz	Pass	PK	5.8202G	123.10	Inf	-Inf	5.55	3	Vertical	347	1.53	-
5825MHz	Pass	PK	5.9306G	60.39	68.20	-7.81	5.74	3	Vertical	347	1.53	-
5825MHz	Pass	AV	5.8238G	115.17	Inf	-Inf	5.55	3	Horizontal	356	1.32	-
5825MHz	Pass	PK	5.645G	58.11	68.20	-10.09	5.23	3	Horizontal	356	1.32	-
5825MHz	Pass	PK	5.8238G	125.42	Inf	-Inf	5.55	3	Horizontal	356	1.32	-
5825MHz	Pass	PK	5.9222G	66.20	70.27	-4.07	5.74	3	Horizontal	356	1.32	-
5825MHz	Pass	AV	11.64994G	46.63	54.00	-7.37	15.63	3	Vertical	31	1.39	-
5825MHz	Pass	PK	11.65108G	71.11	74.00	-2.89	15.63	3	Vertical	31	1.39	-
5825MHz	Pass	AV	11.64988G	47.70	54.00	-6.30	15.63	3	Horizontal	278	1.46	-
5825MHz	Pass	PK	11.65114G	64.90	74.00	-9.10	15.63	3	Horizontal	278	1.46	-
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	46.02	54.00	-7.98	4.37	3	Vertical	360	1.41	-
5180MHz	Pass	AV	5.1838G	105.24	Inf	-Inf	4.43	3	Vertical	360	1.41	-
5180MHz	Pass	PK	5.1494G	58.34	74.00	-15.66	4.37	3	Vertical	360	1.41	-
5180MHz	Pass	PK	5.185G	119.22	Inf	-Inf	4.43	3	Vertical	360	1.41	-
5180MHz	Pass	AV	5.1456G	45.92	54.00	-8.08	4.36	3	Horizontal	4	2.58	-
5180MHz	Pass	AV	5.1842G	105.76	Inf	-Inf	4.43	3	Horizontal	4	2.58	-
5180MHz	Pass	PK	5.1438G	60.11	74.00	-13.89	4.36	3	Horizontal	4	2.58	-
5180MHz	Pass	PK	5.1836G	119.27	Inf	-Inf	4.43	3	Horizontal	4	2.58	-
5180MHz	Pass	PK	10.36066G	67.86	68.20	-0.34	14.80	3	Vertical	28	1.94	-
5180MHz	Pass	PK	10.36G	67.76	68.20	-0.44	14.80	3	Horizontal	78	1.91	-
5200MHz	Pass	AV	5.15G	46.41	54.00	-7.59	4.37	3	Vertical	0	1.43	-
5200MHz	Pass	AV	5.204G	109.20	Inf	-Inf	4.46	3	Vertical	0	1.43	-
5200MHz	Pass	PK	5.1444G	60.64	74.00	-13.36	4.36	3	Vertical	0	1.43	-
5200MHz	Pass	PK	5.2044G	121.90	Inf	-Inf	4.46	3	Vertical	0	1.43	-
5200MHz	Pass	AV	5.15G	46.78	54.00	-7.22	4.37	3	Horizontal	3	2.01	-
5200MHz	Pass	AV	5.196G	108.96	Inf	-Inf	4.45	3	Horizontal	3	2.01	-
5200MHz	Pass	PK	5.1496G	59.11	74.00	-14.89	4.37	3	Horizontal	3	2.01	-
5200MHz	Pass	PK	5.196G	122.17	Inf	-Inf	4.45	3	Horizontal	3	2.01	-
5200MHz	Pass	PK	10.39868G	67.69	68.20	-0.51	14.88	3	Vertical	30	1.52	-
5200MHz	Pass	PK	10.39868G	59.71	68.20	-8.49	14.88	3	Horizontal	263	1.44	-
5240MHz	Pass	AV	5.1476G	44.80	54.00	-9.20	4.36	3	Vertical	26	1.35	-
5240MHz	Pass	AV	5.2442G	108.21	Inf	-Inf	4.53	3	Vertical	26	1.35	-
5240MHz	Pass	AV	5.3762G	44.69	54.00	-9.31	4.76	3	Vertical	26	1.35	-
5240MHz	Pass	PK	5.1284G	57.42	74.00	-16.58	4.33	3	Vertical	26	1.35	-
5240MHz	Pass	PK	5.243G	120.00	Inf	-Inf	4.53	3	Vertical	26	1.35	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5240MHz	Pass	PK	5.3732G	58.24	74.00	-15.76	4.76	3	Vertical	26	1.35	-
5240MHz	Pass	AV	5.1476G	45.09	54.00	-8.91	4.36	3	Horizontal	6	2.45	-
5240MHz	Pass	AV	5.2442G	109.21	Inf	-Inf	4.53	3	Horizontal	6	2.45	-
5240MHz	Pass	AV	5.3876G	45.19	54.00	-8.81	4.78	3	Horizontal	6	2.45	-
5240MHz	Pass	PK	5.1482G	57.45	74.00	-16.55	4.36	3	Horizontal	6	2.45	-
5240MHz	Pass	PK	5.2436G	122.56	Inf	-Inf	4.53	3	Horizontal	6	2.45	-
5240MHz	Pass	PK	5.3888G	57.44	74.00	-16.56	4.79	3	Horizontal	6	2.45	-
5240MHz	Pass	PK	10.46872G	67.28	68.20	-0.92	15.05	3	Vertical	24	2.39	-
5240MHz	Pass	PK	10.4812G	58.78	68.20	-9.42	15.08	3	Horizontal	270	1.48	-
5745MHz	Pass	AV	5.7498G	112.70	Inf	-Inf	5.43	3	Vertical	353	1.49	-
5745MHz	Pass	PK	5.643G	62.02	68.20	-6.18	5.23	3	Vertical	353	1.49	-
5745MHz	Pass	PK	5.7498G	125.63	Inf	-Inf	5.43	3	Vertical	353	1.49	-
5745MHz	Pass	PK	5.9322G	58.82	68.20	-9.38	5.75	3	Vertical	353	1.49	-
5745MHz	Pass	AV	5.751G	113.47	Inf	-Inf	5.42	3	Horizontal	359	2.35	-
5745MHz	Pass	PK	5.6454G	67.66	68.20	-0.54	5.23	3	Horizontal	359	2.35	-
5745MHz	Pass	PK	5.751G	125.22	Inf	-Inf	5.42	3	Horizontal	359	2.35	-
5745MHz	Pass	PK	5.9586G	58.38	68.20	-9.82	5.80	3	Horizontal	359	2.35	-
5745MHz	Pass	AV	11.48988G	44.42	54.00	-9.58	15.79	3	Vertical	31	1.53	-
5745MHz	Pass	PK	11.4786G	66.38	74.00	-7.62	15.81	3	Vertical	31	1.53	-
5745MHz	Pass	AV	11.48988G	44.08	54.00	-9.92	15.79	3	Horizontal	48	2.31	-
5745MHz	Pass	PK	11.47854G	63.57	74.00	-10.43	15.81	3	Horizontal	48	2.31	-
5785MHz	Pass	AV	5.7898G	113.71	Inf	-Inf	5.49	3	Vertical	350	1.43	-
5785MHz	Pass	PK	5.6326G	58.09	68.20	-10.11	5.21	3	Vertical	350	1.43	-
5785MHz	Pass	PK	5.7898G	125.76	Inf	-Inf	5.49	3	Vertical	350	1.43	-
5785MHz	Pass	PK	5.9314G	58.18	68.20	-10.02	5.74	3	Vertical	350	1.43	-
5785MHz	Pass	AV	5.7802G	113.87	Inf	-Inf	5.48	3	Horizontal	12	1.62	-
5785MHz	Pass	PK	5.6434G	59.31	68.20	-8.89	5.23	3	Horizontal	12	1.62	-
5785MHz	Pass	PK	5.7802G	127.45	Inf	-Inf	5.48	3	Horizontal	12	1.62	-
5785MHz	Pass	PK	5.9338G	59.39	68.20	-8.81	5.76	3	Horizontal	12	1.62	-
5785MHz	Pass	AV	11.56994G	45.64	54.00	-8.36	19.23	3	Vertical	36	1.38	-
5785MHz	Pass	PK	11.5736G	67.27	74.00	-6.73	19.22	3	Vertical	36	1.38	-
5785MHz	Pass	AV	11.56994G	47.42	54.00	-6.58	19.23	3	Horizontal	14	1.49	-
5785MHz	Pass	PK	11.57138G	59.22	74.00	-14.78	19.22	3	Horizontal	14	1.49	-
5825MHz	Pass	AV	5.8226G	113.29	Inf	-Inf	10.23	3	Vertical	40	1.41	-
5825MHz	Pass	PK	5.6246G	60.87	68.20	-7.33	9.90	3	Vertical	40	1.41	-
5825MHz	Pass	PK	5.8202G	124.34	Inf	-Inf	10.23	3	Vertical	40	1.41	-
5825MHz	Pass	PK	5.921G	66.03	71.16	-5.13	10.41	3	Vertical	40	1.41	-
5825MHz	Pass	AV	5.8262G	114.19	Inf	-Inf	10.25	3	Horizontal	0	2.96	-
5825MHz	Pass	PK	5.6078G	60.56	68.20	-7.64	9.88	3	Horizontal	0	2.96	-
5825MHz	Pass	PK	5.8262G	125.77	Inf	-Inf	10.25	3	Horizontal	0	2.96	-
5825MHz	Pass	PK	5.9258G	64.88	68.20	-3.32	10.42	3	Horizontal	0	2.96	-
5825MHz	Pass	AV	11.64994G	46.10	54.00	-7.90	19.18	3	Vertical	35	1.50	-
5825MHz	Pass	PK	11.65114G	71.60	74.00	-2.40	19.18	3	Vertical	35	1.50	-
5825MHz	Pass	AV	11.64988G	50.42	54.00	-3.58	19.18	3	Horizontal	327	2.14	-
5825MHz	Pass	PK	11.64874G	68.31	74.00	-5.69	19.18	3	Horizontal	327	2.14	-
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.15G	53.46	54.00	-0.54	9.06	3	Vertical	3	1.58	-
5190MHz	Pass	AV	5.194G	104.49	Inf	-Inf	9.14	3	Vertical	3	1.58	-
5190MHz	Pass	PK	5.1492G	66.80	74.00	-7.20	9.06	3	Vertical	3	1.58	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5190MHz	Pass	PK	5.1948G	117.00	Inf	-Inf	9.14	3	Vertical	3	1.58	-
5190MHz	Pass	AV	5.1432G	52.15	54.00	-1.85	9.05	3	Horizontal	346	2.05	-
5190MHz	Pass	AV	5.1832G	105.17	Inf	-Inf	9.12	3	Horizontal	346	2.05	-
5190MHz	Pass	PK	5.1424G	70.34	74.00	-3.66	9.05	3	Horizontal	346	2.05	-
5190MHz	Pass	PK	5.1824G	117.65	Inf	-Inf	9.12	3	Horizontal	346	2.05	-
5190MHz	Pass	PK	10.37866G	57.60	68.20	-10.60	18.78	3	Vertical	31	2.14	-
5190MHz	Pass	PK	10.37996G	57.14	68.20	-11.06	18.78	3	Horizontal	266	1.49	-
5230MHz	Pass	AV	5.15G	53.56	54.00	-0.44	9.06	3	Vertical	8	1.92	-
5230MHz	Pass	AV	5.2316G	109.06	Inf	-Inf	9.20	3	Vertical	8	1.92	-
5230MHz	Pass	PK	5.1496G	65.99	74.00	-8.01	9.06	3	Vertical	8	1.92	-
5230MHz	Pass	PK	5.2312G	120.81	Inf	-Inf	9.20	3	Vertical	8	1.92	-
5230MHz	Pass	AV	5.1456G	52.38	54.00	-1.62	9.05	3	Horizontal	326	1.68	-
5230MHz	Pass	AV	5.226G	107.94	Inf	-Inf	9.19	3	Horizontal	326	1.68	-
5230MHz	Pass	PK	5.1464G	67.12	74.00	-6.88	9.05	3	Horizontal	326	1.68	-
5230MHz	Pass	PK	5.2252G	119.72	Inf	-Inf	9.19	3	Horizontal	326	1.68	-
5230MHz	Pass	PK	10.461G	65.05	68.20	-3.15	18.89	3	Vertical	31	2.03	-
5230MHz	Pass	PK	10.46098G	62.28	68.20	-5.92	18.89	3	Horizontal	270	2.34	-
5755MHz	Pass	AV	5.7526G	108.51	Inf	-Inf	10.12	3	Vertical	36	1.48	-
5755MHz	Pass	PK	5.6554G	69.18	72.20	-3.02	9.96	3	Vertical	36	1.48	-
5755MHz	Pass	PK	5.7526G	119.99	Inf	-Inf	10.12	3	Vertical	36	1.48	-
5755MHz	Pass	PK	5.959G	61.19	68.20	-7.01	10.47	3	Vertical	36	1.48	-
5755MHz	Pass	AV	5.761G	109.57	Inf	-Inf	10.14	3	Horizontal	340	2.17	-
5755MHz	Pass	PK	5.6446G	67.75	68.20	-0.45	9.94	3	Horizontal	340	2.17	-
5755MHz	Pass	PK	5.7622G	121.77	Inf	-Inf	10.14	3	Horizontal	340	2.17	-
5755MHz	Pass	PK	5.9422G	61.64	68.20	-6.56	10.45	3	Horizontal	340	2.17	-
5755MHz	Pass	AV	11.50982G	45.77	54.00	-8.23	19.26	3	Vertical	28	1.45	-
5755MHz	Pass	PK	11.516G	60.62	74.00	-13.38	19.25	3	Vertical	28	1.45	-
5755MHz	Pass	AV	11.50994G	46.79	54.00	-7.21	19.26	3	Horizontal	38	1.99	-
5755MHz	Pass	PK	11.5097G	57.80	74.00	-16.20	19.26	3	Horizontal	38	1.99	-
5795MHz	Pass	AV	5.7962G	106.59	Inf	-Inf	10.19	3	Vertical	58	1.51	-
5795MHz	Pass	PK	5.6474G	63.17	68.20	-5.03	9.95	3	Vertical	58	1.51	-
5795MHz	Pass	PK	5.777G	118.31	Inf	-Inf	10.16	3	Vertical	58	1.51	-
5795MHz	Pass	PK	5.933G	64.43	68.20	-3.77	10.43	3	Vertical	58	1.51	-
5795MHz	Pass	AV	5.8022G	110.19	Inf	-Inf	10.20	3	Horizontal	0	1.68	-
5795MHz	Pass	PK	5.6462G	66.95	68.20	-1.25	9.94	3	Horizontal	0	1.68	-
5795MHz	Pass	PK	5.801G	121.98	Inf	-Inf	10.20	3	Horizontal	0	1.68	-
5795MHz	Pass	PK	5.9246G	67.76	68.50	-0.74	10.41	3	Horizontal	0	1.68	-
5795MHz	Pass	AV	11.58982G	41.53	54.00	-12.47	15.69	3	Vertical	28	1.47	-
5795MHz	Pass	PK	11.596G	57.60	74.00	-16.40	15.68	3	Vertical	28	1.47	-
5795MHz	Pass	AV	11.58988G	47.03	54.00	-6.97	19.21	3	Horizontal	15	1.49	-
5795MHz	Pass	PK	11.59112G	58.21	74.00	-15.79	19.21	3	Horizontal	15	1.49	-
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.145G	52.73	54.00	-1.27	9.05	3	Vertical	3	1.66	-
5210MHz	Pass	AV	5.218G	100.64	Inf	-Inf	9.18	3	Vertical	3	1.66	-
5210MHz	Pass	AV	5.359G	47.92	54.00	-6.08	9.43	3	Vertical	3	1.66	-
5210MHz	Pass	PK	5.15G	67.73	74.00	-6.27	9.06	3	Vertical	3	1.66	-
5210MHz	Pass	PK	5.217G	112.94	Inf	-Inf	9.18	3	Vertical	3	1.66	-
5210MHz	Pass	PK	5.351G	60.36	74.00	-13.64	9.42	3	Vertical	3	1.66	-
5210MHz	Pass	AV	5.144G	53.86	54.00	-0.14	9.05	3	Horizontal	7	2.02	-

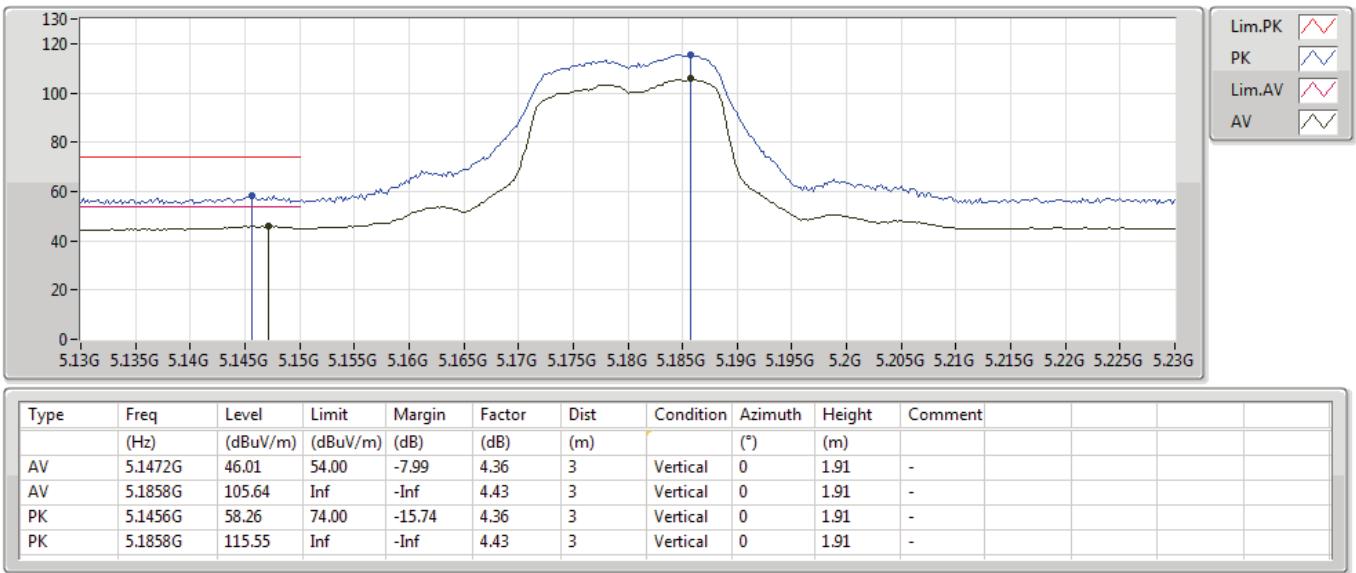


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5210MHz	Pass	AV	5.203G	101.22	Inf	-Inf	9.15	3	Horizontal	7	2.02	-
5210MHz	Pass	AV	5.355G	47.98	54.00	-6.02	9.42	3	Horizontal	7	2.02	-
5210MHz	Pass	PK	5.144G	69.32	74.00	-4.68	9.05	3	Horizontal	7	2.02	-
5210MHz	Pass	PK	5.204G	113.68	Inf	-Inf	9.15	3	Horizontal	7	2.02	-
5210MHz	Pass	PK	5.373G	60.44	74.00	-13.56	9.46	3	Horizontal	7	2.02	-
5210MHz	Pass	PK	10.43278G	58.70	68.20	-9.50	18.85	3	Vertical	25	2.93	-
5210MHz	Pass	PK	10.42066G	58.65	68.20	-9.55	18.84	3	Horizontal	262	1.49	-
5775MHz	Pass	AV	5.7666G	100.05	Inf	-Inf	10.14	3	Vertical	58	1.55	-
5775MHz	Pass	PK	5.6478G	64.45	68.20	-3.75	9.95	3	Vertical	58	1.55	-
5775MHz	Pass	PK	5.7654G	111.84	Inf	-Inf	10.14	3	Vertical	58	1.55	-
5775MHz	Pass	PK	5.9274G	61.93	68.20	-6.27	10.42	3	Vertical	58	1.55	-
5775MHz	Pass	AV	5.7786G	104.62	Inf	-Inf	10.17	3	Horizontal	337	2.71	-
5775MHz	Pass	PK	5.6382G	67.55	68.20	-0.65	9.93	3	Horizontal	337	2.71	-
5775MHz	Pass	PK	5.7774G	116.32	Inf	-Inf	10.16	3	Horizontal	337	2.71	-
5775MHz	Pass	PK	5.9418G	62.21	68.20	-5.99	10.45	3	Horizontal	337	2.71	-
5775MHz	Pass	AV	11.54994G	44.89	54.00	-9.11	19.24	3	Vertical	27	1.49	-
5775MHz	Pass	PK	11.55858G	58.55	74.00	-15.45	19.24	3	Vertical	27	1.49	-
5775MHz	Pass	AV	11.54988G	46.09	54.00	-7.91	19.24	3	Horizontal	37	2.03	-
5775MHz	Pass	PK	11.55006G	57.57	74.00	-16.43	19.24	3	Horizontal	37	2.03	-

802.11a_Nss1,(6Mbps)_4TX

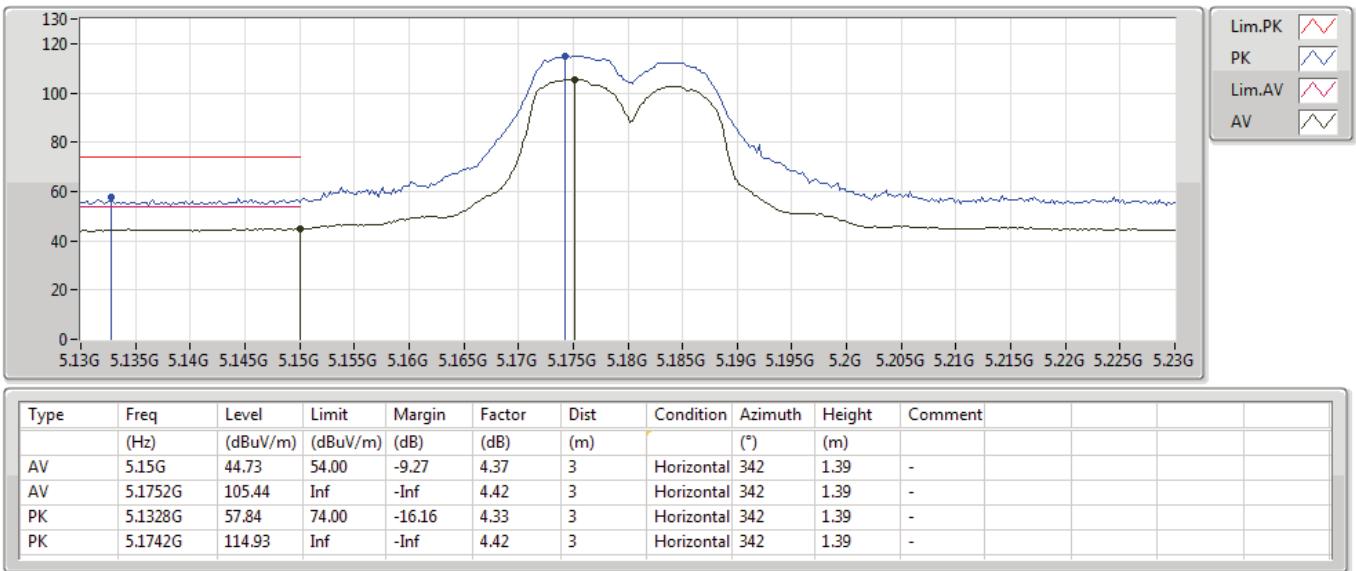
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5180MHz_TX



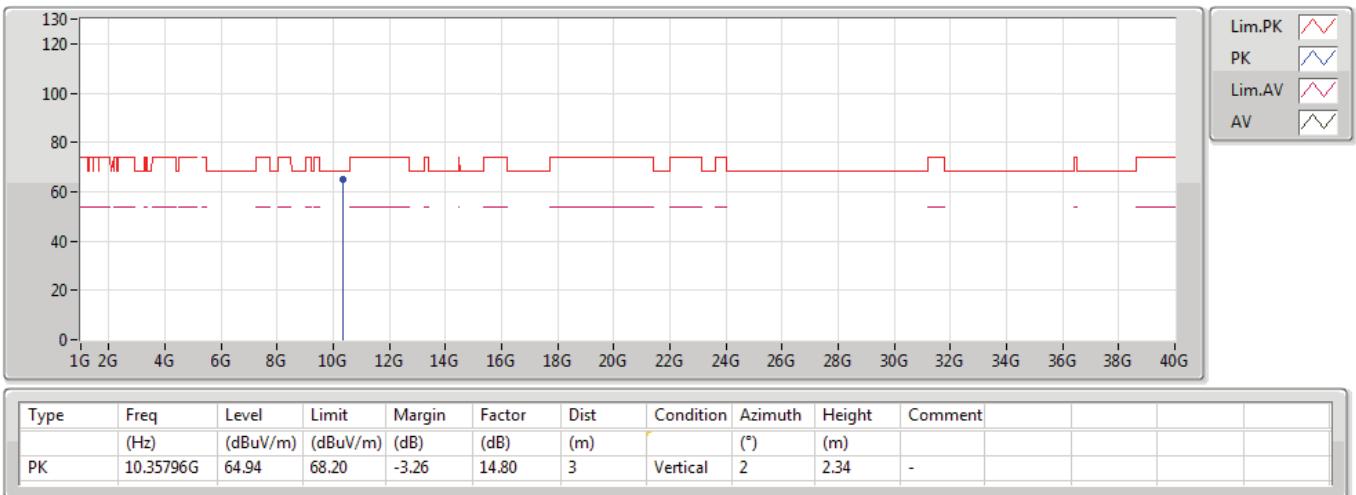
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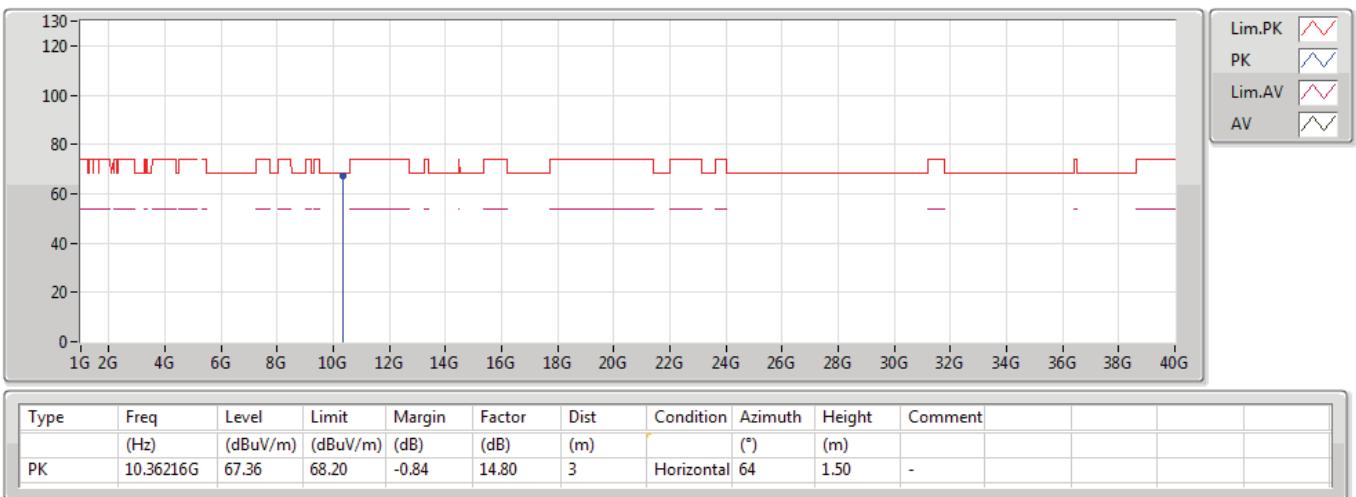
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5180MHz_TX


**802.11a_Nss1,(6Mbps)_4TX**

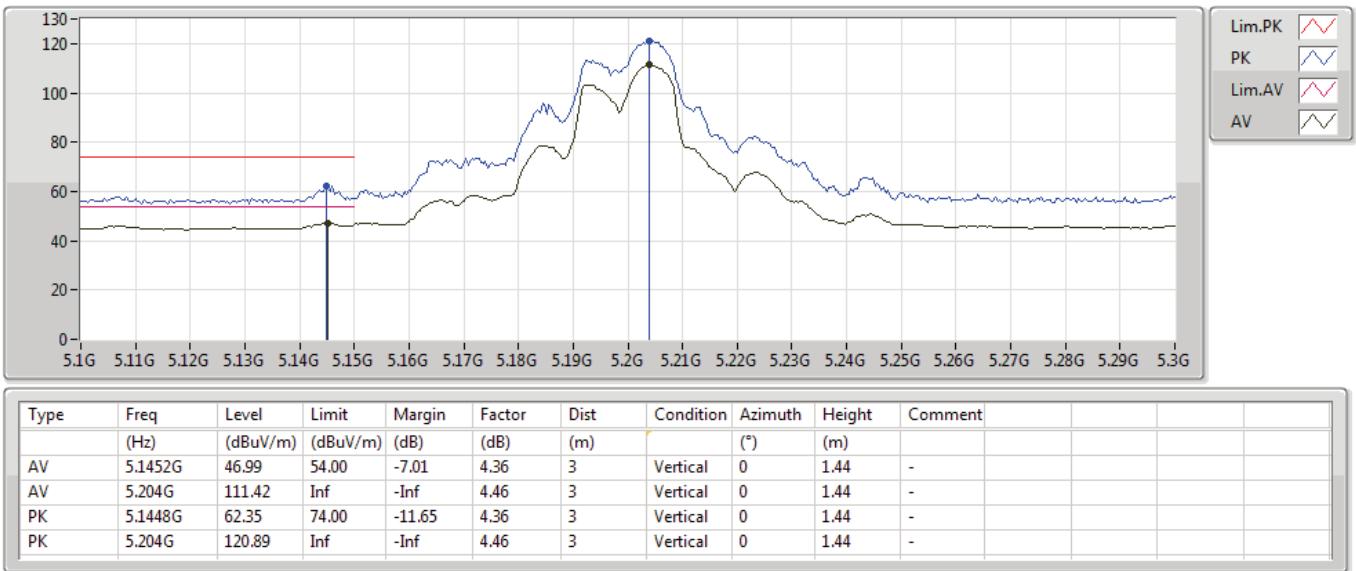
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802.11a_Nss1,(6Mbps)_4TX

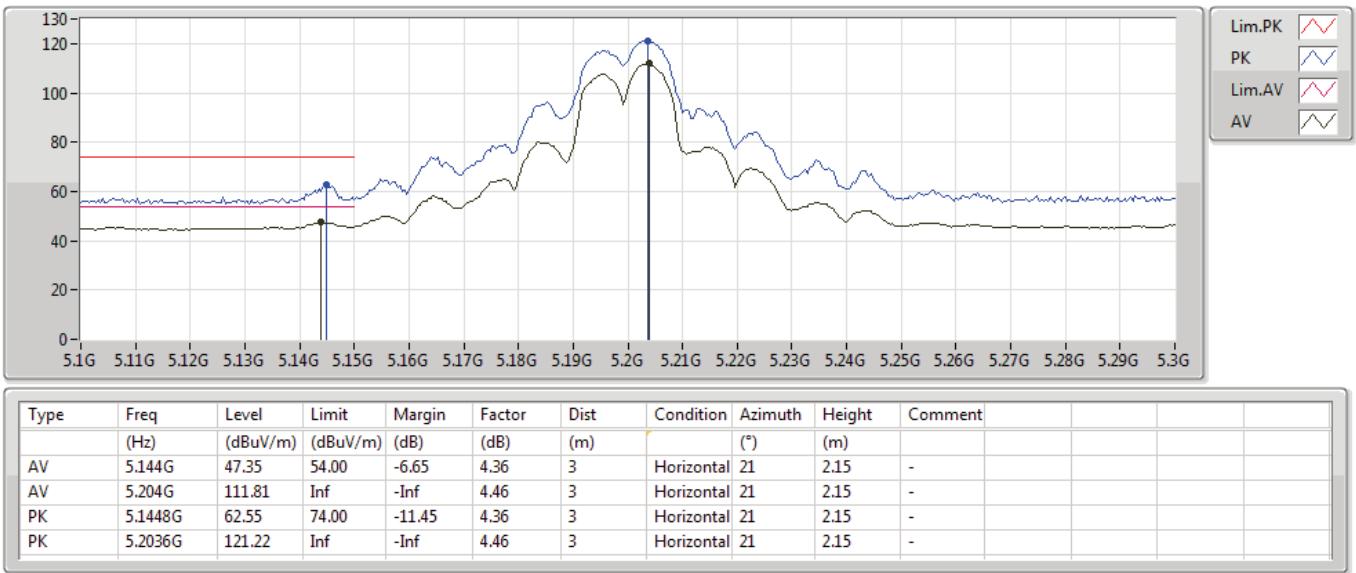
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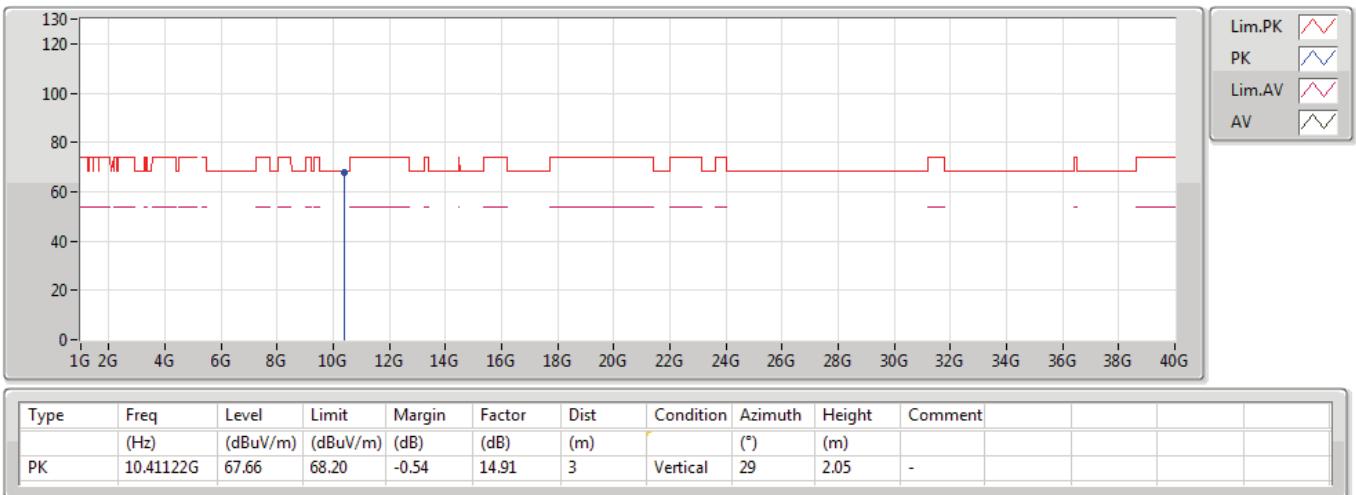
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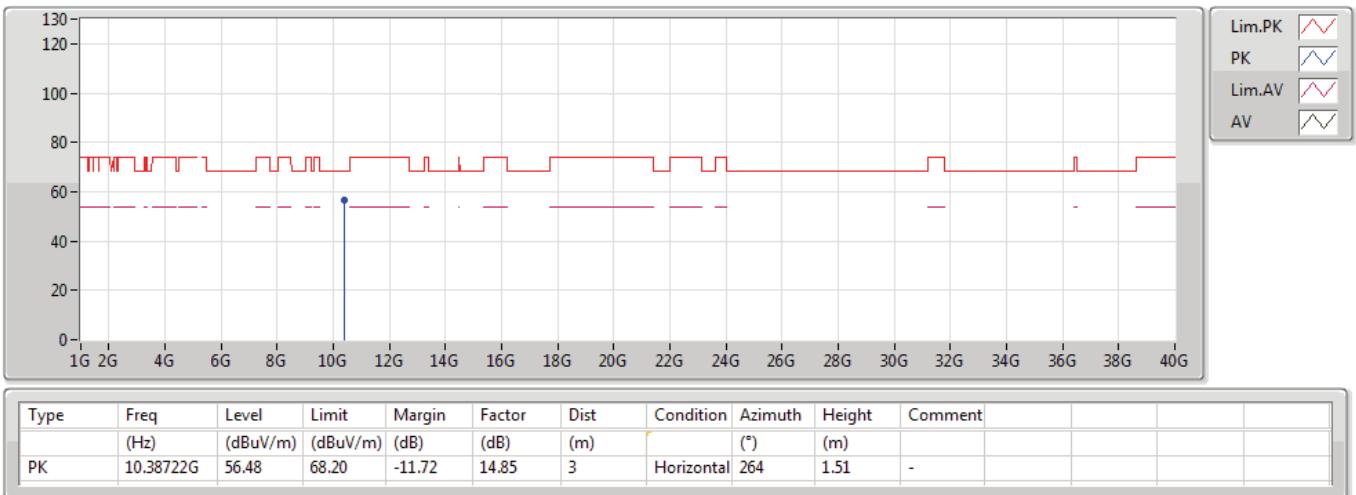
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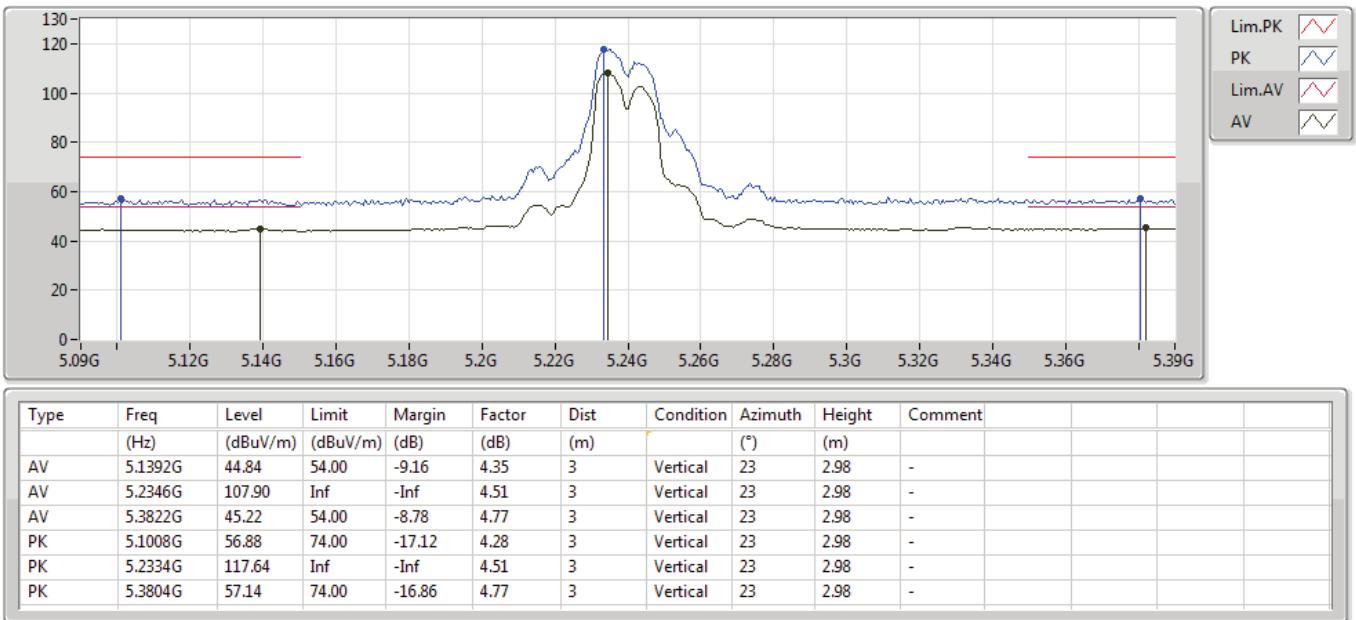
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15/06/2019

5200MHz_TX

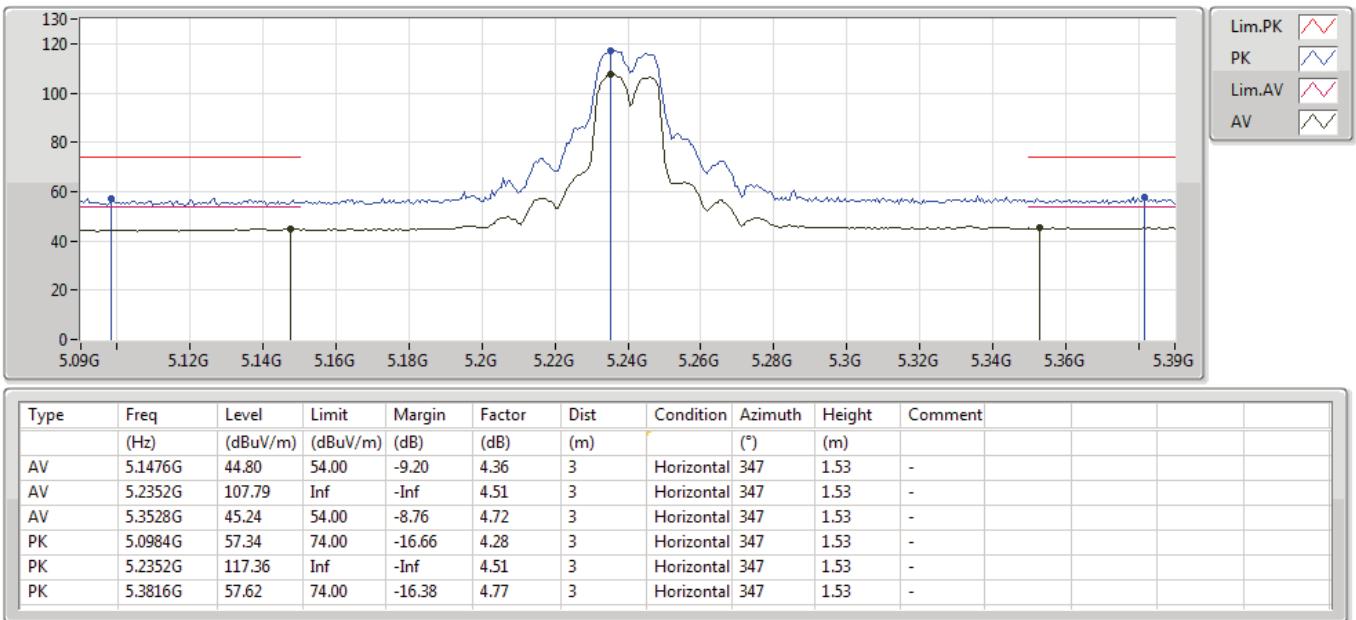
802.11a_Nss1,(6Mbps)_4TX

15/06/2019

5240MHz_TX


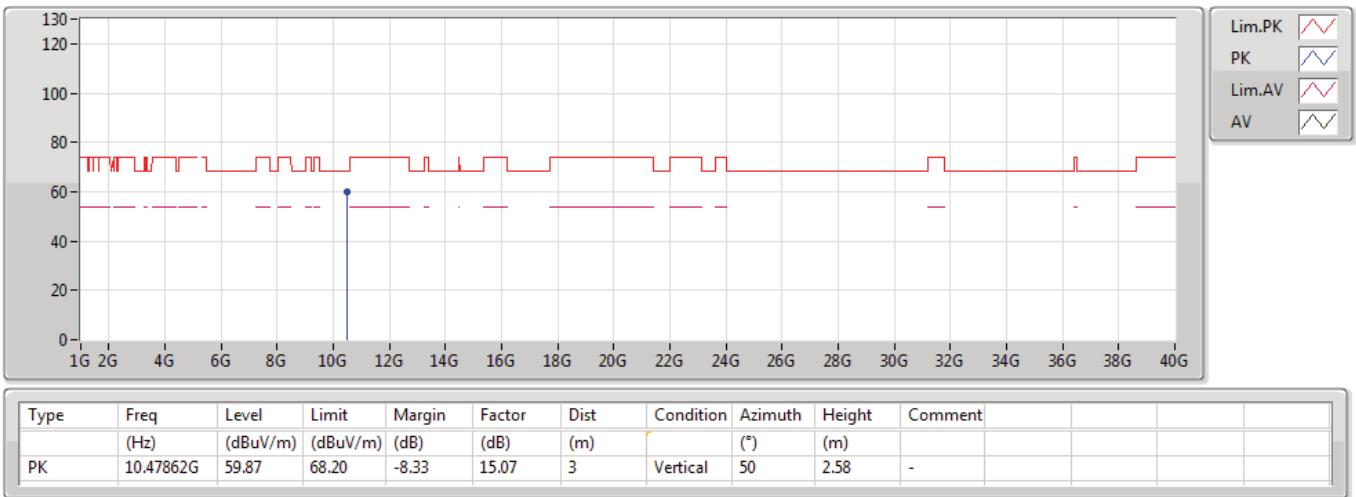
802.11a_Nss1,(6Mbps)_4TX

15/06/2019

5240MHz_TX


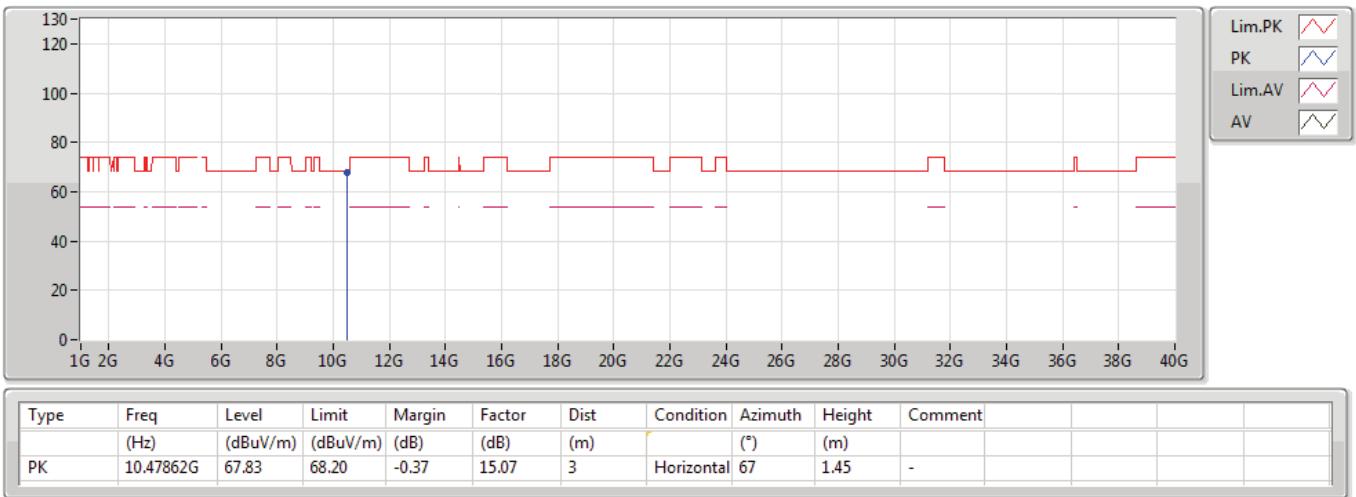
802.11a_Nss1,(6Mbps)_4TX

15/06/2019

5240MHz_TX


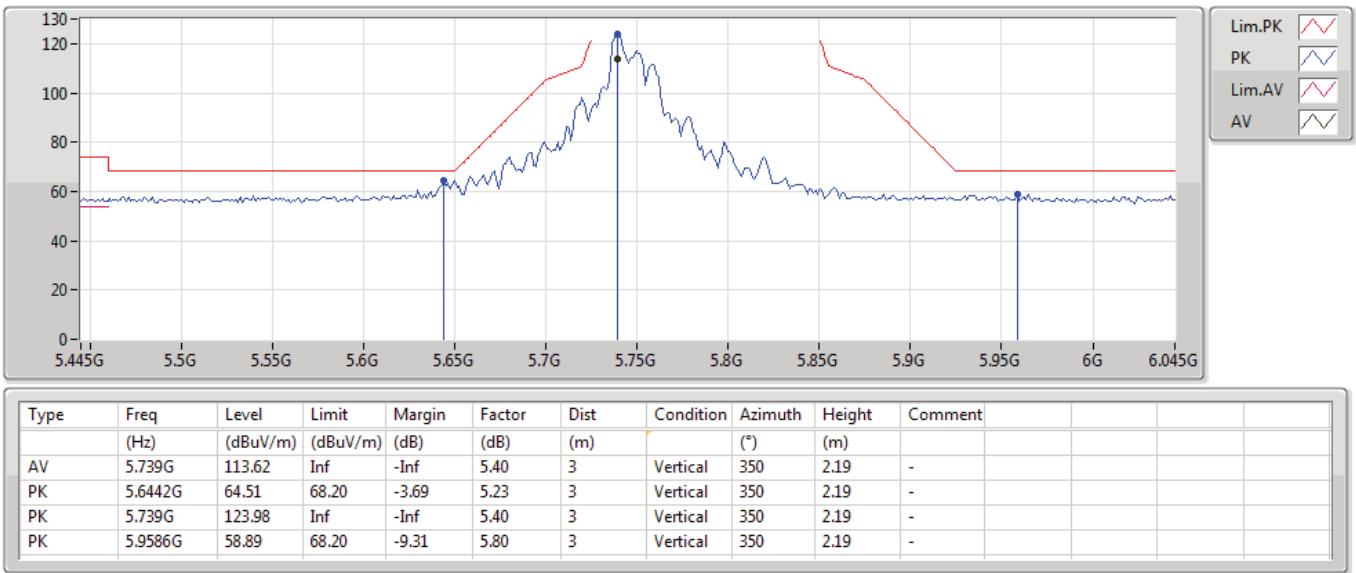
**802.11a_Nss1,(6Mbps)_4TX**

15/06/2019

5240MHz_TX

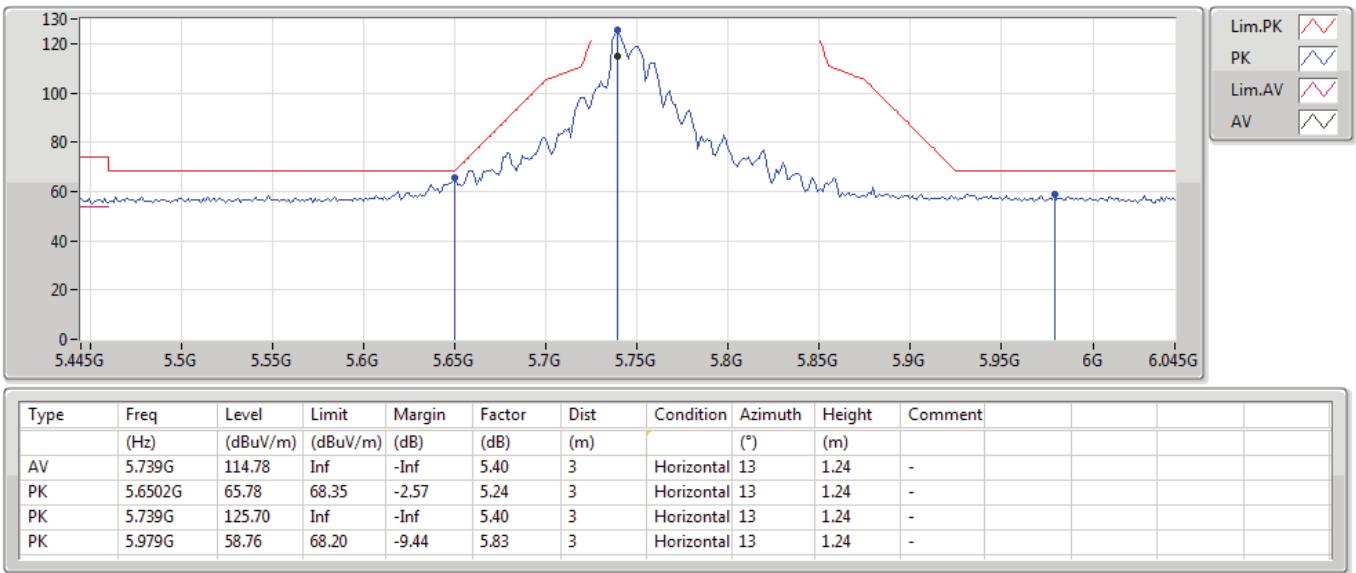
802.11a_Nss1,(6Mbps)_4TX

15/06/2019

5745MHz_TX


802.11a_Nss1,(6Mbps)_4TX

15/06/2019

5745MHz_TX


802.11a_Nss1,(6Mbps)_4TX

15/06/2019

5745MHz_TX
