



FCC Test Report

FCC ID : TOR-C230
Equipment : 802.11 a/n/ac/ax + b/g/n/ax Access Point
Brand Name : Arista
Model Name : C-230, C-230E, O-235, O-235E
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 Feb. 26, 2020, and testing was started from Mar. 05, 2020 and completed on May 27, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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


Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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History of this test report

[illegible]

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

Reviewed by: Ben Tseng

Report Producer: Debby Hung

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]

Non-Beamforming Radio 1

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	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	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 HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX

Radio 3

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

Beamforming
Radio 1

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

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

(C-230, O-235) Internal Antenna

Ant.	Brand	Model Number	Antenna Type	Connector	Antenna Gain (dBi)			Cable Loss	Remark	
					2.4GHz	5GHz	BLE		2.4GHz	5GHz
1	Senao	5718A0507300	PIFA	I-Pex	3.80	5.98	-	N/A	Radio 2	Radio 1
2	Senao	5718A0508300	PIFA	I-Pex	5.23	5.54	-		Radio 2	Radio 1
3	Senao	5718A0509300	PIFA	I-Pex	4.44	5.97	-		Radio 3	
4	Senao	5718A0510300	PIFA	I-Pex	4.41	5.78	-		Radio 3	
5	Senao	5718A0511300	PIFA	I-Pex	-	5.54	-		-	Radio 1
6	Senao	5718A0512300	PIFA	I-Pex	-	5.53	-		-	Radio 1
7	Senao	5718A0513300	PIFA	I-Pex	-	-	3.87		-	-

Note: The antenna gain of angle above 30 degrees for Ant. 1, 2, 5, 6 is 3.932 dBi.

(C-230E) External Antenna

Ant.	Brand	Model Number	Antenna Type	Connector	Antenna Gain (dBi)			Cable Loss		Remark	
					2.4GHz	5GHz	BLE	2.4GHz	5GHz	2.4GHz	5GHz
1	Master Wave	98619PRSX020	Dipole	Reverse SMA	2.70	5.23	-	0.46	0.88	Radio 2	Radio 1
2	Master Wave	98619PRSX020	Dipole	Reverse SMA	2.70	5.23	-	0.30	0.57	Radio 2	Radio 1
3	Master Wave	98619PRSX020	Dipole	Reverse SMA	2.70	5.23	-	0.33	0.60	Radio 3	
4	Master Wave	98619PRSX020	Dipole	Reverse SMA	2.70	5.23	-	0.57	0.95	Radio 3	
5	Master Wave	98619URSX002	Dipole	Reverse SMA	-	5.32	-	-	1.13	-	Radio 1
6	Master Wave	98619URSX002	Dipole	Reverse SMA	-	5.32	-	-	0.69	-	Radio 1
7	Senao	5718A0513300	PIFA	I-Pex	-	-	3.87	N/A		-	-

(O-235E) External Antenna

Ant.	Brand	Model Number	Antenna Type	Connector	Antenna Gain (dBi)			Cable Loss		Remark	
					2.4GHz	5GHz	BLE	2.4GHz	5GHz	2.4GHz	5GHz
1	Senao	5718A0394300	Dipole	N-type	5.5	7.2	-	0.5	1.13	Radio 2	Radio 1
2	Senao	5718A0394300	Dipole	N-type	5.5	7.2	-	0.6	1.11	Radio 2	Radio 1
3	Senao	5718A0394300	Dipole	N-type	5.5	7.2	-	0.61	1.28	Radio 3	
4	Senao	5718A0394300	Dipole	N-type	5.5	7.2	-	0.67	1.21	Radio 3	
5	Senao	5718A0137300	Dipole	N-type	-	6.3	-	-	1.7	-	Radio 1
6	Senao	5718A0137300	Dipole	N-type	-	6.3	-	-	1.11	-	Radio 1
7	Senao	5718A0513300	PIFA	I-Pex	-	-	3.87	N/A			-

Note: The antenna gain of angle above 30 degrees for Ant. 1, 2, 5, 6 is -0.009 dBi.

For 2.4GHz function:

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

Port 1 and port 2 could transmit/receive simultaneously.

For BT function:

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

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

For 5GHz function:

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

Port 1 and port 2 could transmit/receive simultaneously.

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

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	AC Adapter/PoE for C-230, C-230E PoE for O-235, O-235E		
EUT Function	☒	Outdoor AP	☒ Indoor AP
	☐	Fixed P2P AP	☒ Outdoor/Indoor Client
Beamforming Function	☒	With beamforming	☐ Without beamforming
TPC Function	☒	With TPC Function	☐ Without TPC Function
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:		...
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

1.1.4 Table for Multiple Listing

Sample Number	Model Name	Use	Description
1	C-230	Indoor	The model C-230 and O-235 indicate that it comes with internal antennas and the model C-230E and O-235E indicates that the access point comes with external antenna connectors.
2	C-230E		
3	O-235	Outdoor	
4	O-235E		

1.1.5 Mode Test Duty Cycle

Non-Beamforming
Sample 1_Radio 1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.954	0.2	1.976m	1k
802.11ac VHT20_Nss1,(MCS0)_4TX	0.924	0.34	5.43m	300
802.11ac VHT40_Nss1,(MCS0)_4TX	0.929	0.32	5.43m	300
802.11ac VHT80_Nss1,(MCS0)_4TX	0.920	0.36	5.43m	300
802.11ax HEW20_Nss1,(MCS0)_4TX	0.910	0.41	5.447m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.938	0.28	5.447m	300
802.11ax HEW80_Nss1,(MCS0)_4TX	0.956	0.2	5.447m	300

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

Sample 1_Radio 3

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.965	0.15	2.065m	1k
802.11ac VHT20_Nss1,(MCS0)_2TX	0.963	0.16	1.933m	1k
802.11ac VHT40_Nss1,(MCS0)_2TX	0.929	0.32	952.5u	3k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.871	0.6	464.375u	3k

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

Sample 2_Radio 1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.954	0.2	1.976m	1k
802.11ac VHT20_Nss1,(MCS0)_4TX	0.924	0.34	5.43m	300
802.11ac VHT40_Nss1,(MCS0)_4TX	0.929	0.32	5.43m	300
802.11ac VHT80_Nss1,(MCS0)_4TX	0.920	0.36	5.43m	300
802.11ax HEW20_Nss1,(MCS0)_4TX	0.910	0.41	5.447m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.938	0.28	5.447m	300
802.11ax HEW80_Nss1,(MCS0)_4TX	0.956	0.2	5.447m	300

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

Sample 2_Radio 3

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.965	0.15	2.065m	1k
802.11ac VHT20_Nss1,(MCS0)_2TX	0.964	0.16	1.933m	1k
802.11ac VHT40_Nss1,(MCS0)_2TX	0.933	0.3	952.5u	3k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.871	0.6	464.688u	3k

Sample 3_Radio 1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.943	0.25	1.977m	1k
802.11ac VHT20_Nss1,(MCS0)_4TX	0.919	0.37	5.429m	300
802.11ac VHT40_Nss1,(MCS0)_4TX	0.938	0.28	5.429m	300
802.11ac VHT80_Nss1,(MCS0)_4TX	0.922	0.35	5.429m	300
802.11ax HEW20_Nss1,(MCS0)_4TX	0.926	0.33	5.446m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.947	0.24	5.446m	300
802.11ax HEW80_Nss1,(MCS0)_4TX	0.947	0.24	5.446m	300

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

**Sample 3_Radio 3**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.965	0.15	2.065m	1k
802.11ac VHT20_Nss1,(MCS0)_2TX	0.963	0.16	1.933m	1k
802.11ac VHT40_Nss1,(MCS0)_2TX	0.928	0.32	952.5u	3k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.872	0.59	465u	3k

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

Sample 4_Radio 1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.943	0.25	1.977m	1k
802.11ac VHT20_Nss1,(MCS0)_4TX	0.919	0.37	5.429m	300
802.11ac VHT40_Nss1,(MCS0)_4TX	0.938	0.28	5.429m	300
802.11ac VHT80_Nss1,(MCS0)_4TX	0.922	0.35	5.429m	300
802.11ax HEW20_Nss1,(MCS0)_4TX	0.926	0.33	5.446m	300
802.11ax HEW40_Nss1,(MCS0)_4TX	0.947	0.24	5.446m	300
802.11ax HEW80_Nss1,(MCS0)_4TX	0.947	0.24	5.446m	300

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

Sample 4_Radio 3

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_2TX	0.968	0.14	2.066m	1k
802.11ac VHT20_Nss1,(MCS0)_2TX	0.964	0.16	1.934m	1k
802.11ac VHT40_Nss1,(MCS0)_2TX	0.932	0.31	954.688u	3k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.875	0.58	465.625u	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

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

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

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			
☐	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	20.1~21.9°C / 68~71%	18/Mar/2020~06/Apr/2020
RF Conducted	TH06-HY	Gary Wang	20.1~26.9°C / 50~60%	08/Mar/2020~08/May/2020
Radiated	03CH02-HY	Daniel Lin	23.5~26.8°C / 43~50%	05/Mar/2020~27/May/2020

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Non-Beamforming

Radio 1

Test Software Version	QRCT 4.0
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Radio 3

Test Software Version	QRCT 3.0
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**Non-Beamforming
Sample 1_Radio 1**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	17
5200MHz	17
5240MHz	17
5745MHz	23.5
5785MHz	23
5825MHz	23.5
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	17
5200MHz	17
5240MHz	17.5
5745MHz	23
5785MHz	23
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	20.5
5230MHz	21
5755MHz	23
5795MHz	22.5
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	16.5
5775MHz	21
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	17
5200MHz	17
5240MHz	17.5
5745MHz	23
5785MHz	23
5825MHz	23
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	20.5
5230MHz	21
5755MHz	23



Mode	Power Setting
5795MHz	22.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	16.5
5775MHz	21

**Sample 1_Radio 3**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	13.5
5200MHz	14
5240MHz	14
5745MHz	21
5785MHz	21
5825MHz	21
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	14
5200MHz	13.5
5240MHz	13
5745MHz	21
5785MHz	21
5825MHz	21
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	15
5230MHz	13.5
5755MHz	21
5795MHz	21
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	12.5
5775MHz	21

**Sample 2_Radio 1**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	18
5200MHz	18
5240MHz	18
5745MHz	24
5785MHz	23.5
5825MHz	24
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	18.5
5200MHz	18
5240MHz	18.5
5745MHz	24
5785MHz	23.5
5825MHz	24
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	18.5
5230MHz	21.5
5755MHz	23.5
5795MHz	23
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	14.5
5775MHz	20.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	18.5
5200MHz	18
5240MHz	18.5
5745MHz	24
5785MHz	24
5825MHz	24
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	18.5
5230MHz	21.5
5755MHz	23.5
5795MHz	23



Mode	Power Setting
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	14.5
5775MHz	20.5

**Sample 2_Radio 3**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	17.5
5200MHz	21
5240MHz	19
5745MHz	21
5785MHz	21
5825MHz	21
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	18
5200MHz	21
5240MHz	19
5745MHz	21
5785MHz	21
5825MHz	21
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	11.5
5230MHz	20.5
5755MHz	20
5795MHz	21
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	12.5
5775MHz	18.5

**Sample 3_Radio 1**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	8
5200MHz	8
5240MHz	8
5745MHz	23
5785MHz	22.5
5825MHz	23
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	8
5200MHz	8
5240MHz	8
5745MHz	22.5
5785MHz	22.5
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	8
5230MHz	8
5755MHz	22.5
5795MHz	22.5
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	8
5775MHz	21
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	8
5200MHz	8
5240MHz	8
5745MHz	22.5
5785MHz	22.5
5825MHz	23
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	8
5230MHz	8
5755MHz	22.5
5795MHz	22.5



Mode	Power Setting
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	8
5775MHz	21

**Sample 3_Radio 3**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	15.5
5200MHz	15.5
5240MHz	16
5745MHz	21
5785MHz	21
5825MHz	21
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	16
5200MHz	16
5240MHz	16.5
5745MHz	21
5785MHz	21
5825MHz	21
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	16
5230MHz	20.5
5755MHz	21
5795MHz	21
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	13.5
5775MHz	20

**Sample 4_Radio 1**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	13
5200MHz	13
5240MHz	13
5745MHz	23
5785MHz	22.5
5825MHz	23
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	13
5200MHz	17.5
5240MHz	13
5745MHz	22.5
5785MHz	22.5
5825MHz	23
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	13
5230MHz	12.5
5755MHz	22
5795MHz	22
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	13
5775MHz	20
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	13
5200MHz	13
5240MHz	13
5745MHz	22.5
5785MHz	22.5
5825MHz	23
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	13
5230MHz	12.5
5755MHz	22
5795MHz	22



Mode	Power Setting
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	13
5775MHz	20

**Sample 4_Radio 3**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	16.5
5200MHz	17
5240MHz	16.5
5745MHz	21
5785MHz	21
5825MHz	21
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	17.5
5200MHz	17
5240MHz	16.5
5745MHz	21
5785MHz	21
5825MHz	21
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	13
5230MHz	20.5
5755MHz	21
5795MHz	21
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	10
5775MHz	20.5

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	Sample 1 ; Adapter Mode ; Radio 1 Wi-Fi 5G
2	Sample 1 ; Adapter Mode ; Radio 3 Wi-Fi 5G
3	Sample 2 ; Adapter Mode ; Radio 1 Wi-Fi 5G
4	Sample 2 ; Adapter Mode ; Radio 3 Wi-Fi 5G
5	Sample 3 ; PoE Mode ; Radio 1 Wi-Fi 5G
6	Sample 3 ; PoE Mode ; Radio 3 Wi-Fi 5G
7	Sample 4 ; PoE Mode ; Radio 1 Wi-Fi 5G
8	Sample 4 ; PoE Mode ; Radio 3 Wi-Fi 5G

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	Non Beamforming_Indoor_Sample 1_Radio 1_Adapter Mode		
2	Non Beamforming_Indoor_Sample 1_Radio 3_Adapter Mode		
3	Non Beamforming_Indoor_Sample 2_Radio 1_Adapter Mode		
4	Non Beamforming_Indoor_Sample 2_Radio 3_Adapter Mode		
5	Non Beamforming_Outdoor_Sample 3_Radio 1_PoE Mode		
6	Non Beamforming_Outdoor_Sample 3_Radio 3_PoE Mode		
7	Non Beamforming_Outdoor_Sample 4_Radio 1_PoE Mode		
8	Non Beamforming_Outdoor_Sample 4_Radio 3_PoE Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V	V	V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	2.4G(Radio 2) + 2.4G(Radio 3) + 5G(Radio 1) + Bluetooth
2	2.4G(Radio 2) + 5G(Radio 1) + 5G(Radio 3) + Bluetooth
Refer to Sporton Test Report No.: FA9D1735 for Co-location RF Exposure Evaluation.	

2.4 Accessories

Accessories				
Bracket ceiling mount (C-230,C-230E)	Brand Name	CEN JEY	Model Name	6301A4653010
Bracket wall mount (O-235,O-235E)	Brand Name	Xiertek Industrial.Inc,	Model Name	6301A4093000

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

2.5 Support Equipment

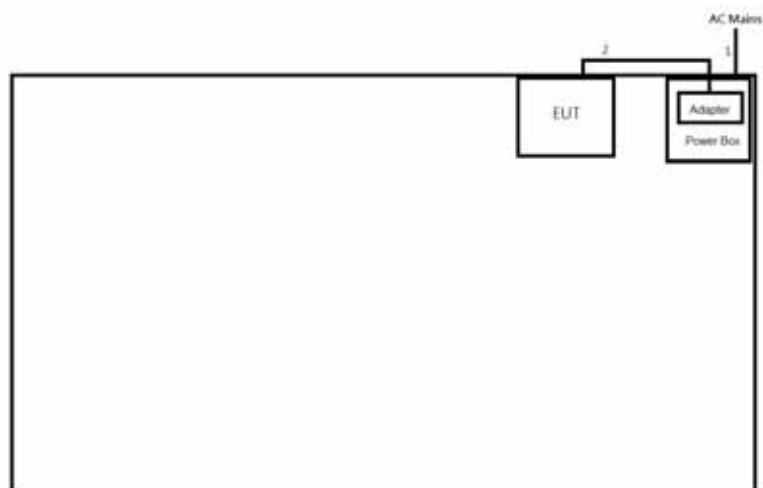
Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable	MAGIC	PS-018	-	Note 1
2	PoE	EnGenius	EPA5006GP	-	
3	USB 2.0 Flash	Transcend	D24425 2101	-	-
4	RJ-45 Cable	Power Sync	CAT-6E-10	-	-
5	Ground Cable	SPORTON	-	-	-
6	AC Adapter	Powertron Electronics Corp.	PA1045-12HIB330	-	Note 1

Note 1: Support equipment was provided by customer.

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

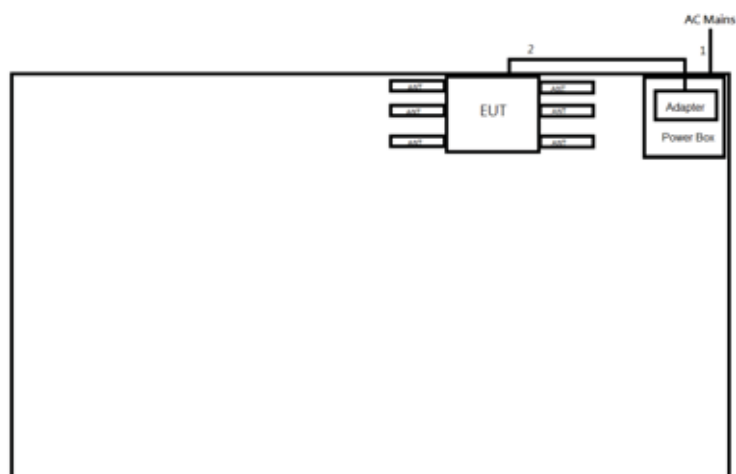
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (Mode 1,2)

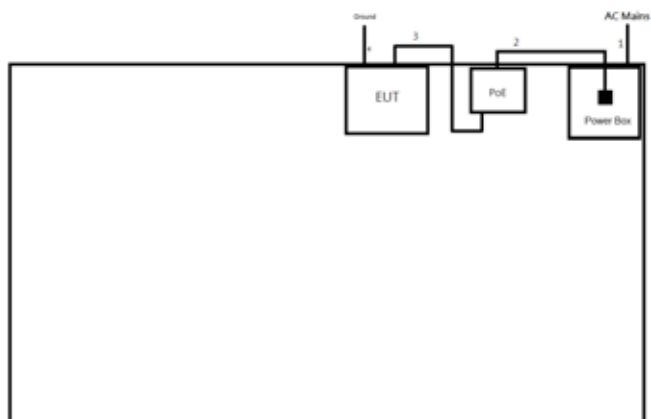


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.2	-
2	DC Power Cable	No	1.6	-

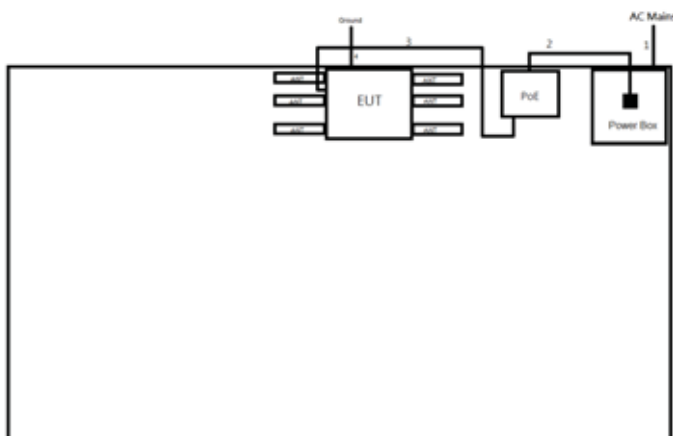
Test Setup Diagram – AC Line Conducted Emission Test (Mode 3,4)



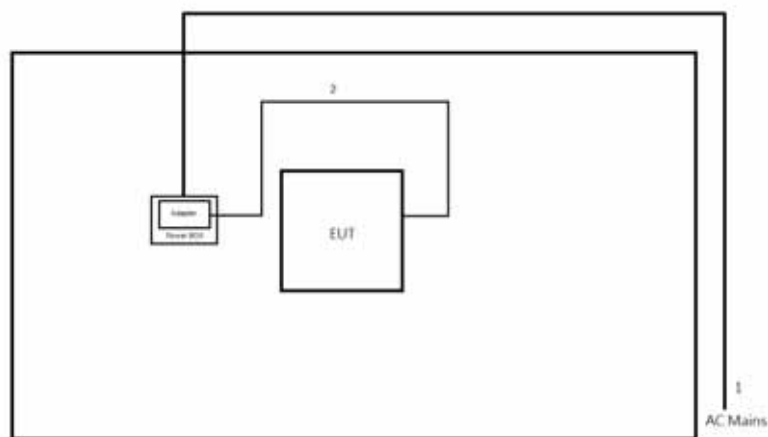
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.2	-
2	DC Power Cable	No	1.6	-

Test Setup Diagram – AC Line Conducted Emission Test (Mode 5,6)


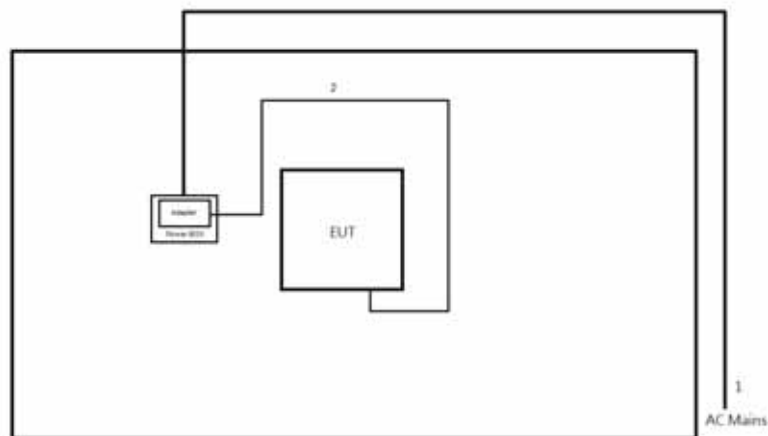
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.2	-
2	AC Power Cable	No	0.5	-
3	RJ-45 Cable	No	10.0	-
4	Ground Cable	No	2.0	-

Test Setup Diagram – AC Line Conducted Emission Test (Mode 7,8)


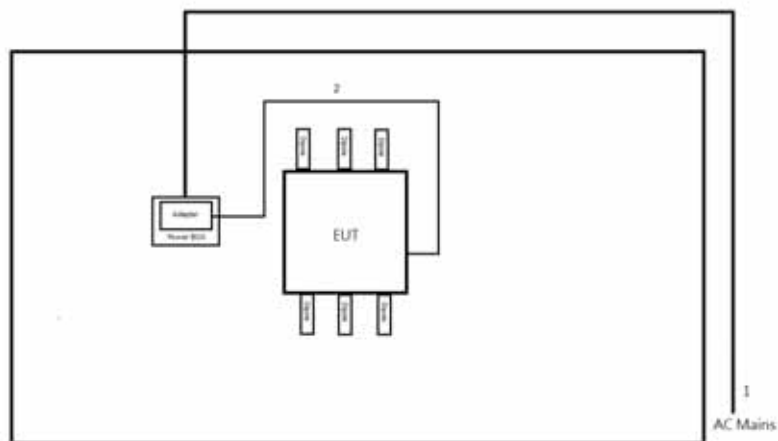
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.2	-
2	AC Power Cable	No	0.5	-
3	RJ-45 Cable	No	10.0	-
4	Ground Cable	No	2.0	-

Test Setup Diagram - Radiated Test (Mode 1)


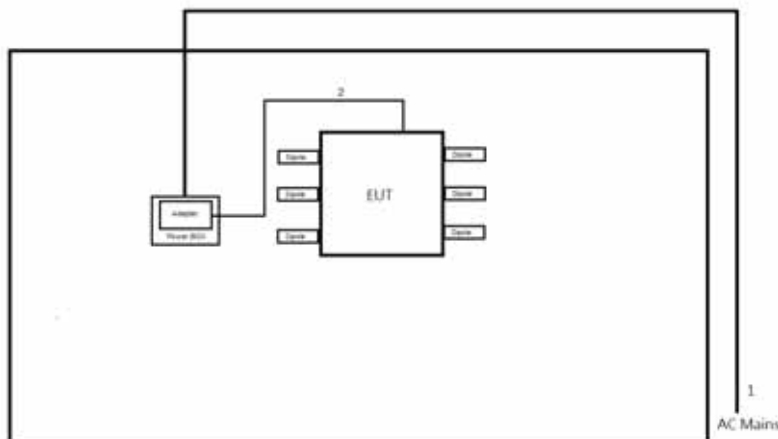
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.6	-

Test Setup Diagram - Radiated Test (Mode 2)


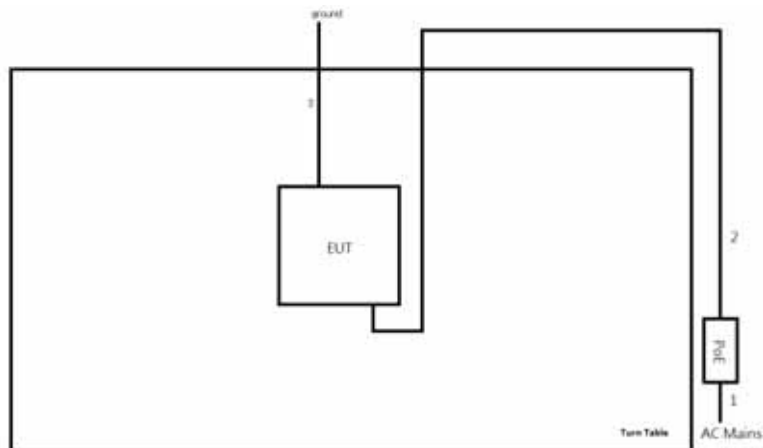
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.6	-

Test Setup Diagram - Radiated Test (Mode 3)


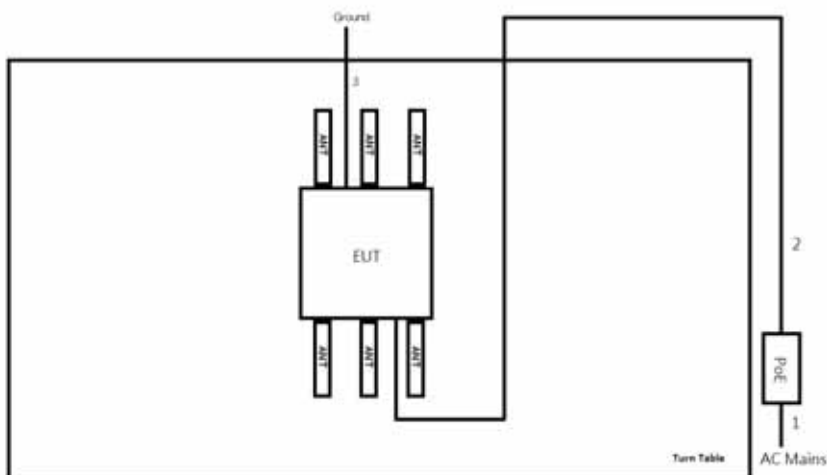
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.6	-

Test Setup Diagram - Radiated Test (Mode 4)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.6	-

Test Setup Diagram - Radiated Test (Mode 5,6)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	0.5	-
2	RJ45 Cable	No	10.0	-
3	Ground Cable	No	2.0	-

Test Setup Diagram - Radiated Test (Mode 7,8)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	0.5	-
2	RJ45 Cable	No	10.0	-
3	Ground Cable	No	2.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

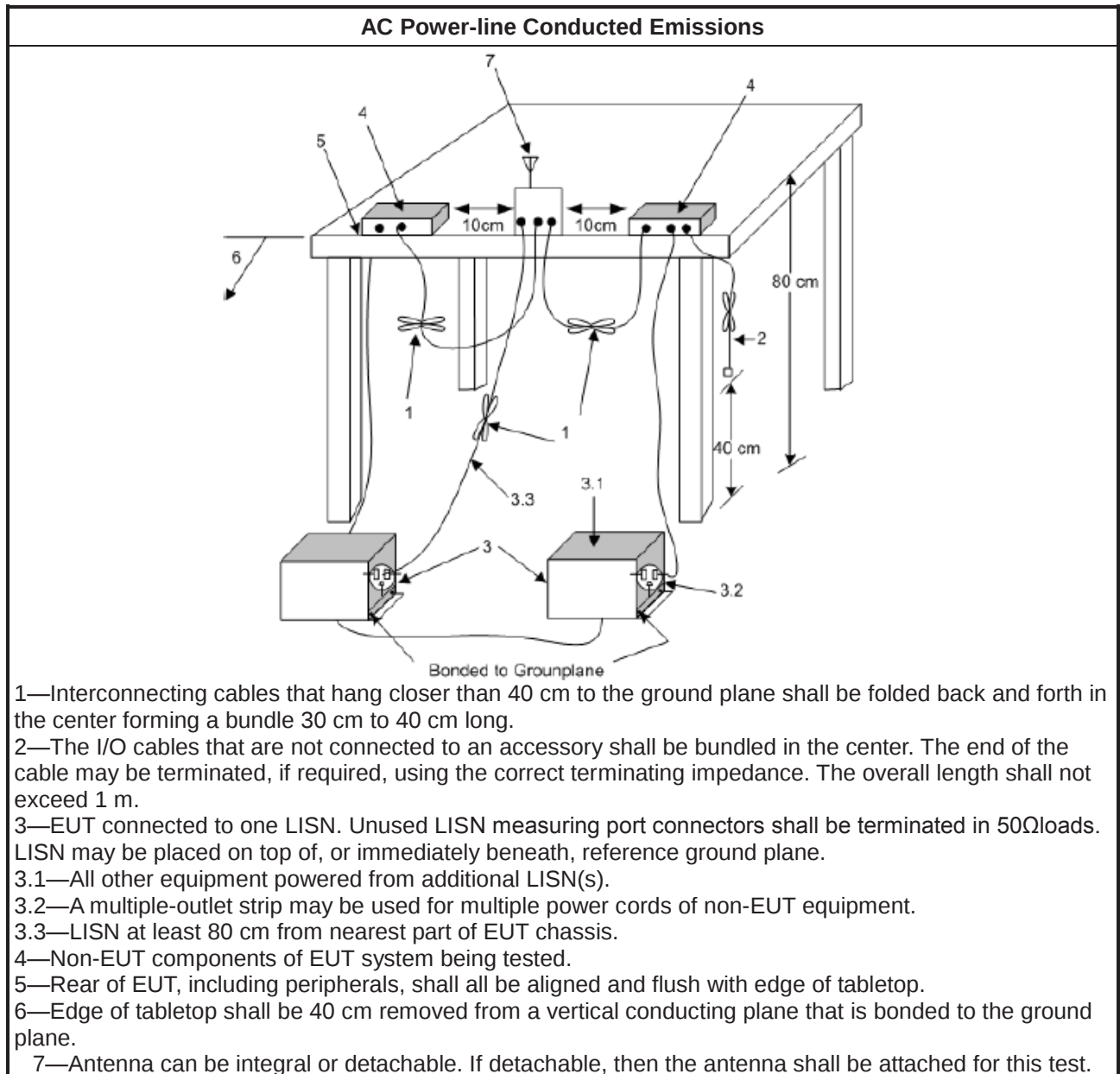
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

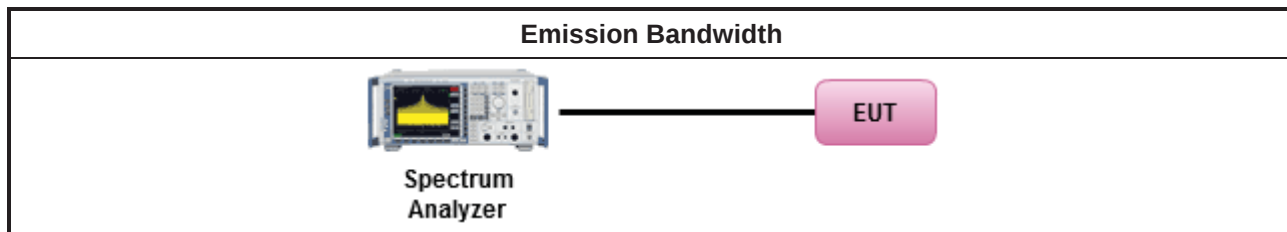
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

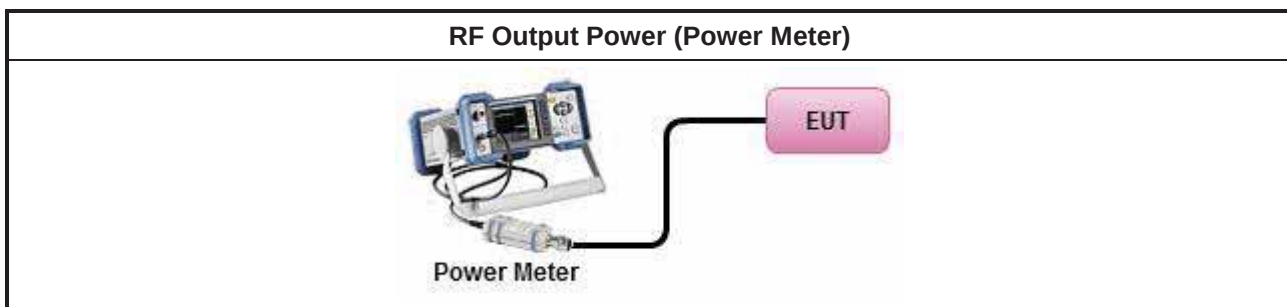
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

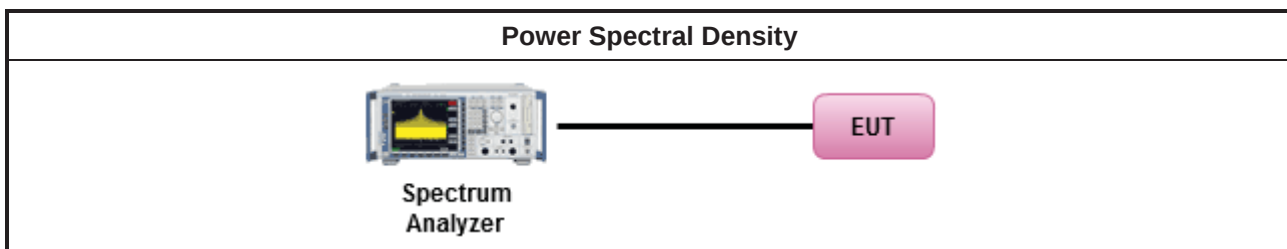
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

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

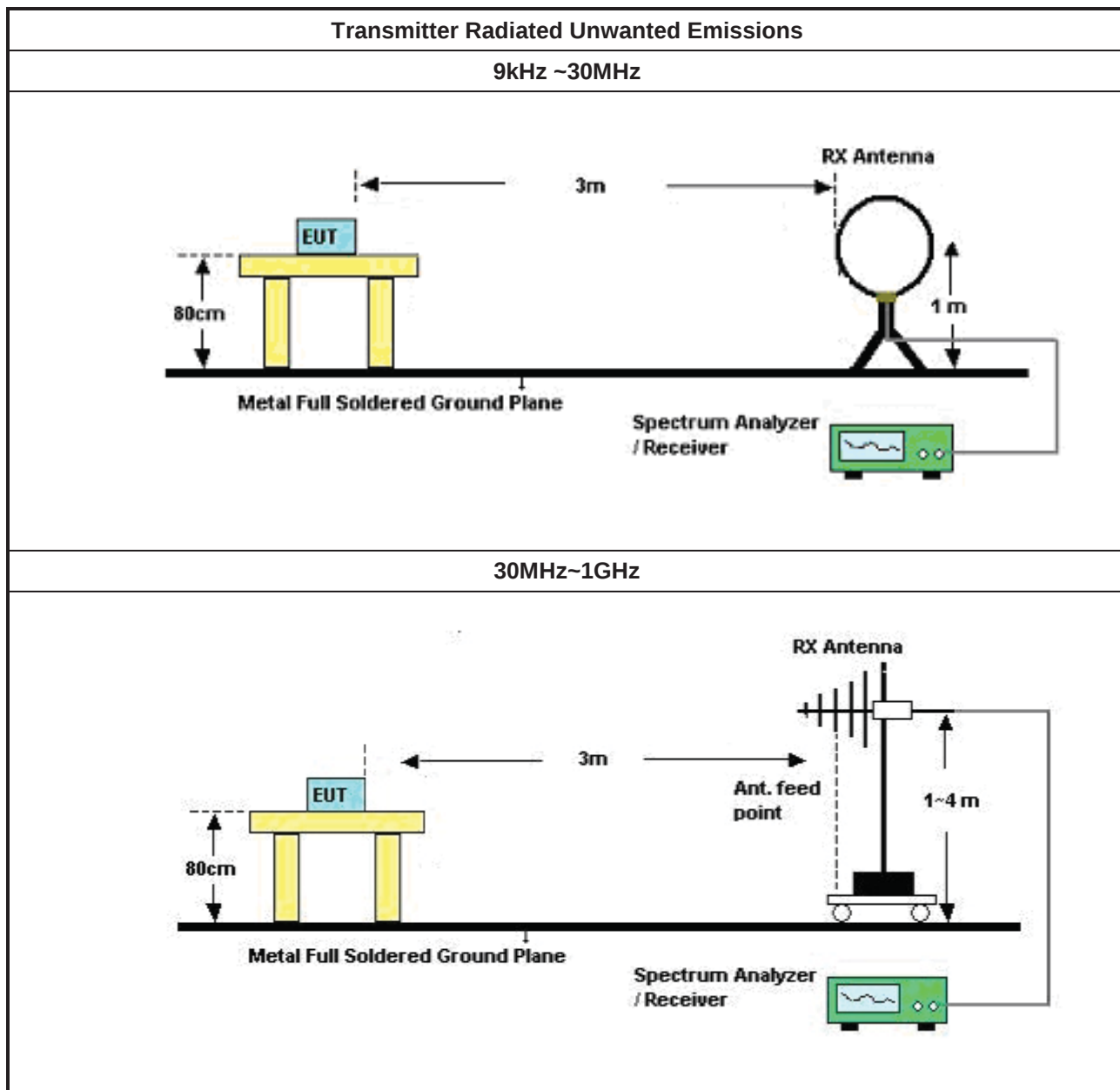
3.5.2 Measuring Instruments

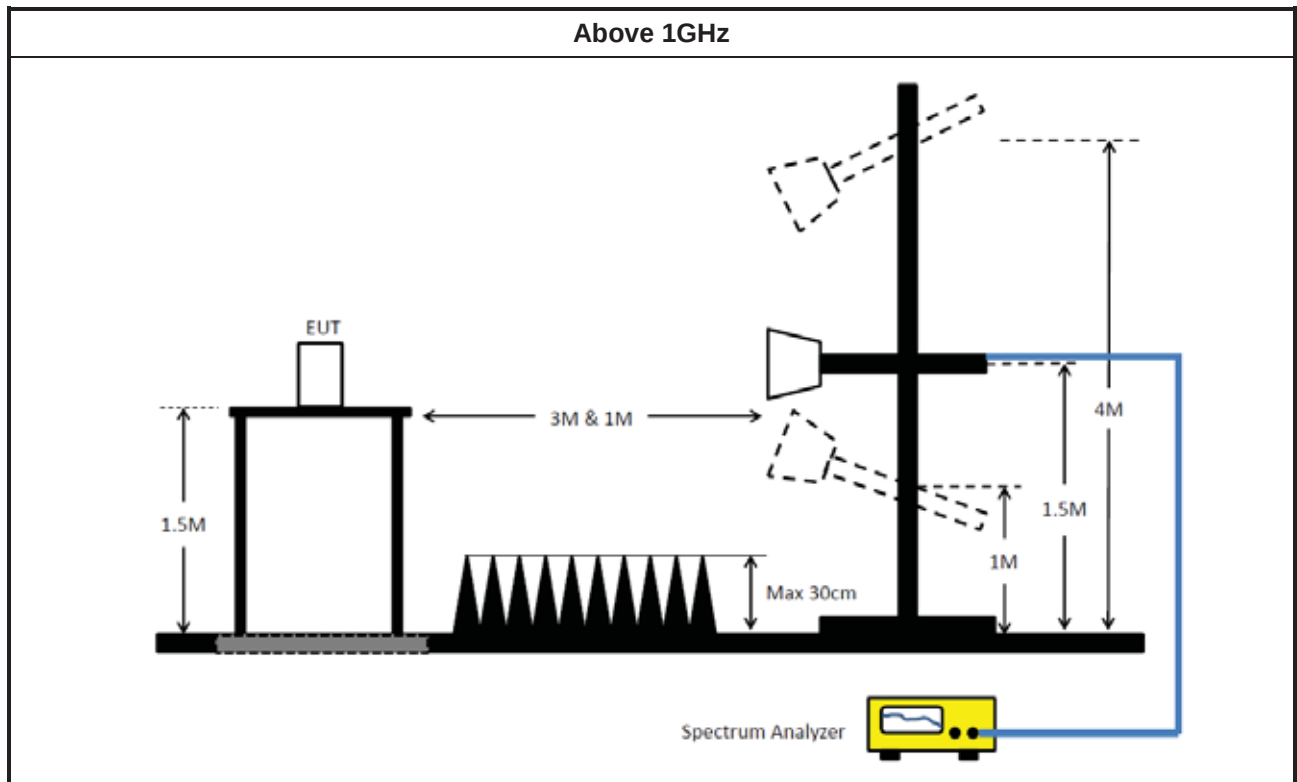
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☒	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
☒	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.5.4 Test Setup





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	04/Nov/2019	05/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	12/Sep/2019	11/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	24/Sep/2019	23/Sep/2020

NCR: Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101015	10Hz~40GHz	15/Feb/2020	14/Feb/2021
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	19/Mar/2020	18/Mar/2021
Pulse Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	17/Feb/2020	16/Feb/2021
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	17/Feb/2020	16/Feb/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

Instrument for Radiated Test

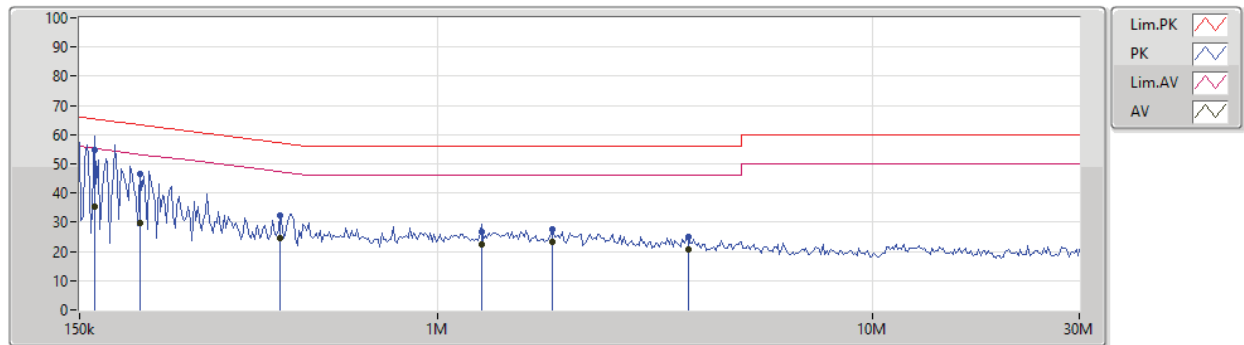
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	29/Aug/2019	28/Aug/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	29/Aug/2019	28/Aug/2020
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	02/Jul/2019	01/Jul/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	16/Oct/2019	15/Oct/2020
Microwave Preamplifier	EMC INSTRUMENT	EMC051845BE	980241	1 GHz ~ 18 GHz	21/May/2019	20/May/2020
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9kHz - 40GHz	27/Feb/2020	26/Feb/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	28/May/2019	27/May/2020
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Mar/2019	25/Mar/2020
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	21/Mar/2020	20/Mar/2021
RF Cable-high 6m	SUHNER	SUCOFLEX104	10567868 / SN805193/4	1GHz~40GHz	09/Apr/2019	08/Apr/2020
RF Cable-high 7m	SUHNER	SUCOFLEX104	10567868 / SN805192/4	1GHz~40GHz	09/Apr/2019	08/Apr/2020
RF Cable-high 6m	SUHNER	SUCOFLEX104	10567868 / SN805193/4	1GHz~40GHz	03/Apr/2020	02/Apr/2021
RF Cable-high 7m	SUHNER	SUCOFLEX104	10567868 / SN805192/4	1GHz~40GHz	03/Apr/2020	02/Apr/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	28/Feb/2020	27/Feb/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170339	18GHz ~ 40GHz	19/Apr/2019	18/Apr/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	16/Mar/2020	15/Mar/2021
Loop Antenna	TESEQ	HLA 6120	24155	9k-30MHz	29/Mar/2019	28/Mar/2020



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Sample 1 ; Adapter Mode ; Radio 1 Wi-Fi 5G TX		

18/03/2020



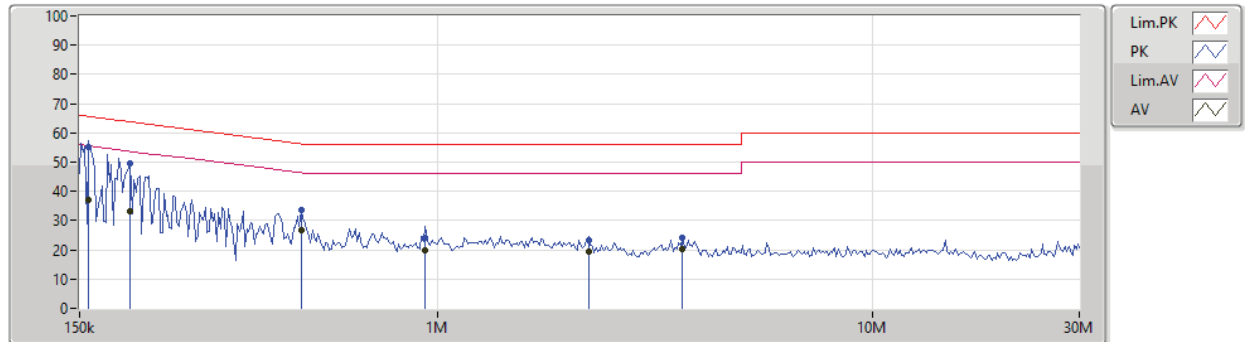
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	162.429k	54.61	65.33	-10.72	19.63	Neutral	"Worst"	34.98	9.65	0.11	9.87			
AV	162.429k	35.14	55.33	-20.19	19.63	Neutral	-	15.51	9.65	0.11	9.87			
QP	206.241k	46.61	63.36	-16.75	19.62	Neutral	-	26.99	9.64	0.11	9.87			
AV	206.241k	29.70	53.36	-23.66	19.62	Neutral	-	10.08	9.64	0.11	9.87			
QP	434.989k	32.18	57.17	-24.99	19.63	Neutral	-	12.55	9.63	0.13	9.87			
AV	434.989k	24.52	47.17	-22.65	19.63	Neutral	-	4.89	9.63	0.13	9.87			
QP	1.261M	26.89	56.00	-29.11	19.64	Neutral	-	7.25	9.64	0.12	9.88			
AV	1.261M	22.36	46.00	-23.64	19.64	Neutral	-	2.72	9.64	0.12	9.88			
QP	1.841M	27.45	56.00	-28.55	19.66	Neutral	-	7.79	9.65	0.14	9.87			
AV	1.841M	23.30	46.00	-22.70	19.66	Neutral	-	3.64	9.65	0.14	9.87			
QP	3.769M	25.02	56.00	-30.98	19.72	Neutral	-	5.30	9.66	0.18	9.88			
AV	3.769M	20.69	46.00	-25.31	19.72	Neutral	-	0.97	9.66	0.18	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Sample 1 ; Adapter Mode ; Radio 1 Wi-Fi 5G TX		

18/03/2020



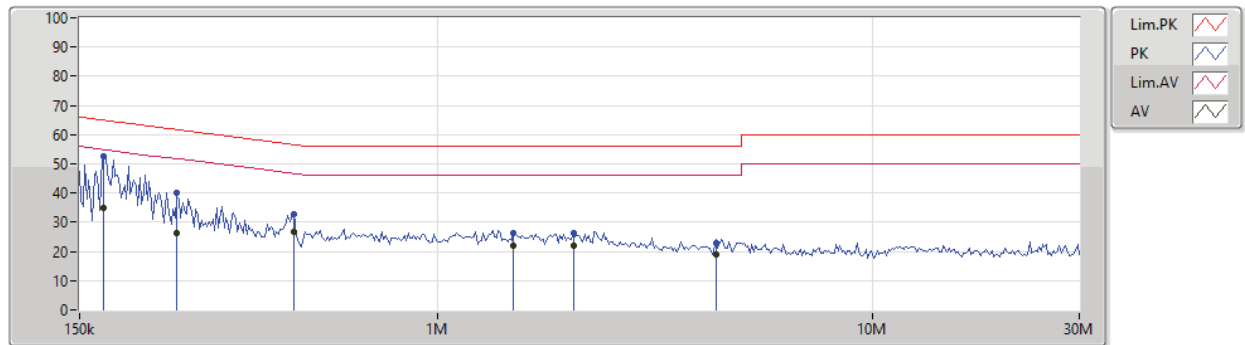
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	157.652k	55.20	65.58	-10.38	19.64	Line	"Worst"	35.56	9.66	0.11	9.87			
AV	157.652k	37.23	55.58	-18.35	19.64	Line	-	17.59	9.66	0.11	9.87			
QP	196.231k	49.39	63.76	-14.37	19.63	Line	-	29.76	9.65	0.11	9.87			
AV	196.231k	33.04	53.76	-20.72	19.63	Line	-	13.41	9.65	0.11	9.87			
QP	485.303k	33.68	56.25	-22.57	19.64	Line	-	14.04	9.64	0.13	9.87			
AV	485.303k	26.78	46.25	-19.47	19.64	Line	-	7.14	9.64	0.13	9.87			
QP	935.888k	24.00	56.00	-32.00	19.63	Line	-	4.37	9.64	0.11	9.88			
AV	935.888k	19.86	46.00	-26.14	19.63	Line	-	0.23	9.64	0.11	9.88			
QP	2.224M	23.13	56.00	-32.87	19.67	Line	-	3.46	9.65	0.15	9.87			
AV	2.224M	19.23	46.00	-26.77	19.67	Line	-	-0.44	9.65	0.15	9.87			
QP	3.658M	24.19	56.00	-31.81	19.72	Line	-	4.47	9.66	0.18	9.88			
AV	3.658M	20.41	46.00	-25.59	19.72	Line	-	0.69	9.66	0.18	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	Sample 1 ; Adapter Mode ; Radio 3 Wi-Fi 5G TX		

18/03/2020



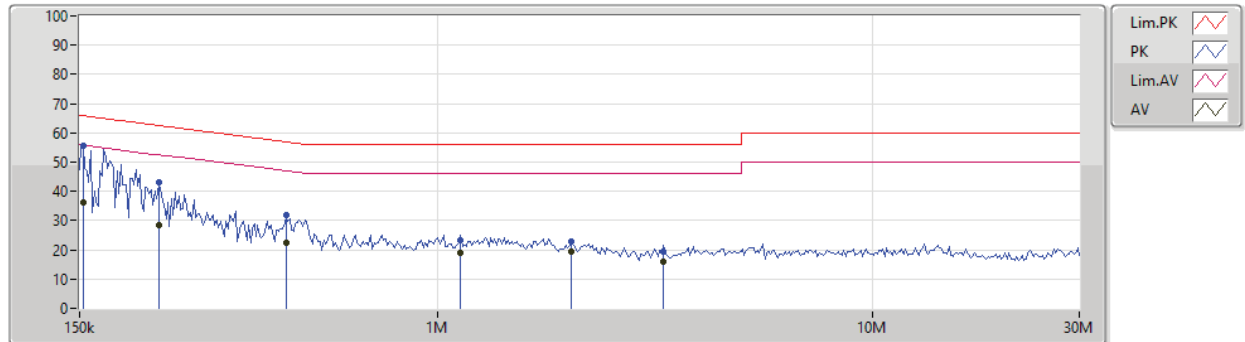
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	170.714k	52.56	64.93	-12.37	19.63	Neutral	"Worst"	32.93	9.65	0.11	9.87			
AV	170.714k	34.70	54.93	-20.23	19.63	Neutral	-	15.07	9.65	0.11	9.87			
QP	251.653k	40.19	61.70	-21.51	19.63	Neutral	-	20.56	9.64	0.12	9.87			
AV	251.653k	26.36	51.70	-25.34	19.63	Neutral	-	6.73	9.64	0.12	9.87			
QP	466.367k	32.97	56.57	-23.60	19.63	Neutral	-	13.34	9.63	0.13	9.87			
AV	466.367k	26.66	46.57	-19.91	19.63	Neutral	-	7.03	9.63	0.13	9.87			
QP	1.494M	26.32	56.00	-29.68	19.64	Neutral	-	6.68	9.64	0.13	9.87			
AV	1.494M	22.08	46.00	-23.92	19.64	Neutral	-	2.44	9.64	0.13	9.87			
QP	2.054M	26.23	56.00	-29.77	19.67	Neutral	-	6.56	9.65	0.15	9.87			
AV	2.054M	22.14	46.00	-23.86	19.67	Neutral	-	2.47	9.65	0.15	9.87			
QP	4.376M	22.77	56.00	-33.23	19.73	Neutral	-	3.04	9.66	0.19	9.88			
AV	4.376M	18.88	46.00	-27.12	19.73	Neutral	-	-0.85	9.66	0.19	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	Sample 1 ; Adapter Mode ; Radio 3 Wi-Fi 5G TX		

18/03/2020



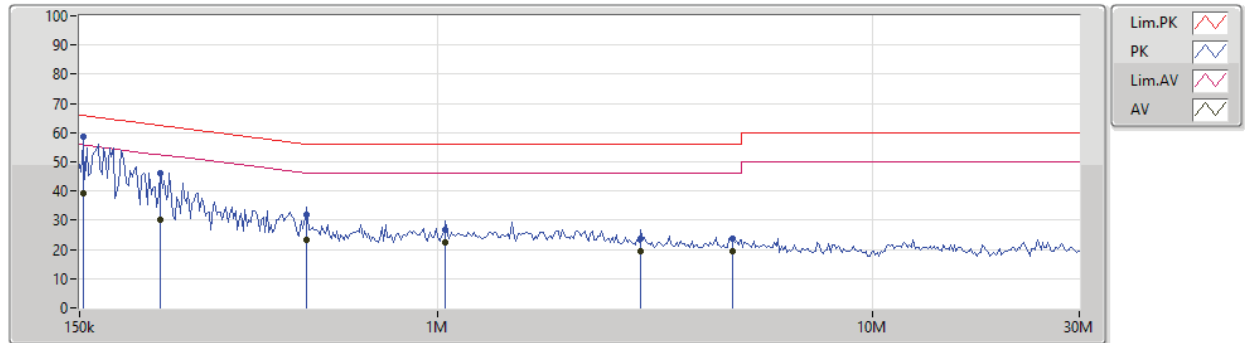
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	55.68	65.83	-10.15	19.64	Line	"Worst"	36.04	9.66	0.11	9.87			
AV	153.015k	36.09	55.83	-19.74	19.64	Line	-	16.45	9.66	0.11	9.87			
QP	227.818k	43.13	62.52	-19.39	19.64	Line	-	23.49	9.65	0.12	9.87			
AV	227.818k	28.24	52.52	-24.28	19.64	Line	-	8.60	9.65	0.12	9.87			
QP	448.17k	31.69	56.92	-25.23	19.64	Line	-	12.05	9.64	0.13	9.87			
AV	448.17k	22.59	46.92	-24.33	19.64	Line	-	2.95	9.64	0.13	9.87			
QP	1.131M	23.16	56.00	-32.84	19.64	Line	-	3.52	9.64	0.12	9.88			
AV	1.131M	18.85	46.00	-27.15	19.64	Line	-	-0.79	9.64	0.12	9.88			
QP	2.034M	22.84	56.00	-33.16	19.67	Line	-	3.17	9.65	0.15	9.87			
AV	2.034M	19.19	46.00	-26.81	19.67	Line	-	-0.48	9.65	0.15	9.87			
QP	3.312M	19.28	56.00	-36.72	19.72	Line	-	-0.44	9.66	0.18	9.88			
AV	3.312M	16.07	46.00	-29.93	19.72	Line	-	-3.65	9.66	0.18	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Neutral
Operating Function	Sample 2 ; Adapter Mode ; Radio 1 Wi-Fi 5G TX		

18/03/2020



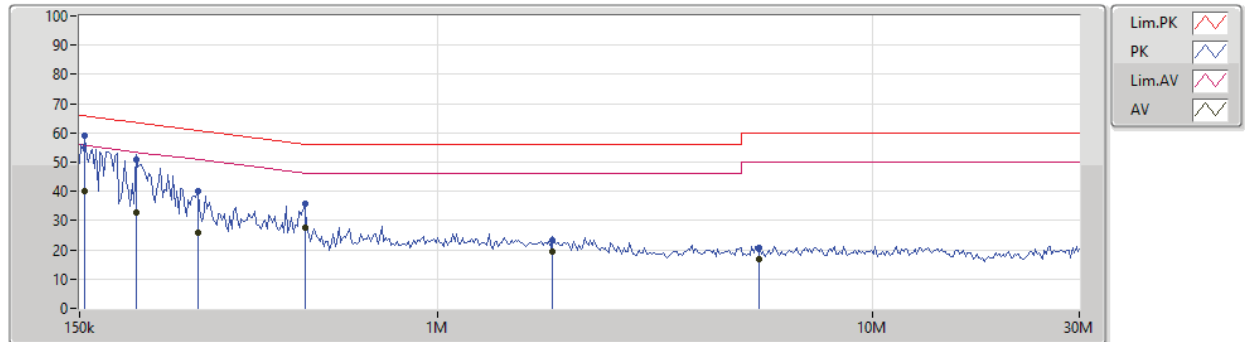
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	58.83	65.83	-7.00	19.63	Neutral	"Worst"	39.20	9.65	0.11	9.87			
AV	153.015k	39.23	55.83	-16.60	19.63	Neutral	-	19.60	9.65	0.11	9.87			
QP	230.097k	46.18	62.44	-16.26	19.63	Neutral	-	26.55	9.64	0.12	9.87			
AV	230.097k	30.32	52.44	-22.12	19.63	Neutral	-	10.69	9.64	0.12	9.87			
QP	500k	31.88	56.00	-24.12	19.63	Neutral	-	12.25	9.63	0.13	9.87			
AV	500k	23.41	46.00	-22.59	19.63	Neutral	-	3.78	9.63	0.13	9.87			
QP	1.044M	26.78	56.00	-29.22	19.62	Neutral	-	7.16	9.63	0.11	9.88			
AV	1.044M	22.38	46.00	-23.62	19.62	Neutral	-	2.76	9.63	0.11	9.88			
QP	2.939M	23.51	56.00	-32.49	19.71	Neutral	-	3.80	9.66	0.17	9.88			
AV	2.939M	19.50	46.00	-26.50	19.71	Neutral	-	-0.21	9.66	0.17	9.88			
QP	4.786M	23.56	56.00	-32.44	19.75	Neutral	-	3.81	9.67	0.20	9.88			
AV	4.786M	19.34	46.00	-26.66	19.75	Neutral	-	-0.41	9.67	0.20	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Line
Operating Function	Sample 2 ; Adapter Mode ; Radio 1 Wi-Fi 5G TX		

18/03/2020



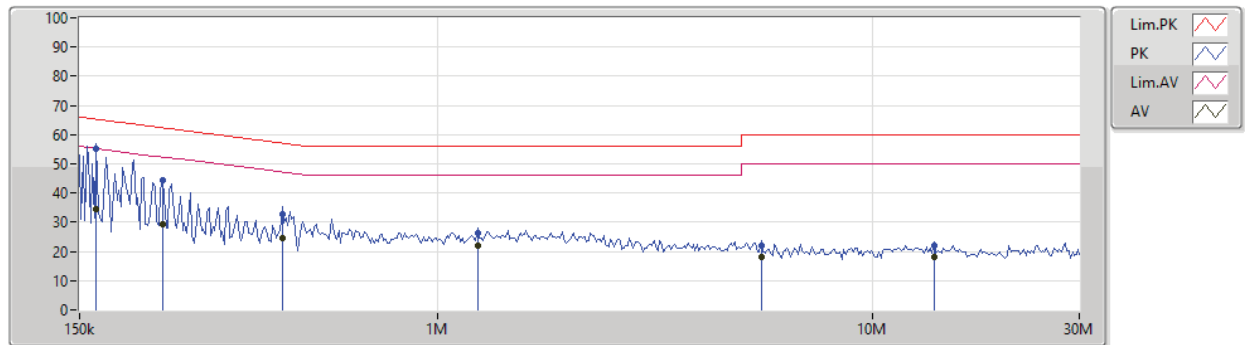
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.545k	59.11	65.75	-6.64	19.64	Line	"Worst"	39.47	9.66	0.11	9.87			
AV	154.545k	40.05	55.75	-15.70	19.64	Line	-	20.41	9.66	0.11	9.87			
QP	202.177k	51.06	63.51	-12.45	19.63	Line	-	31.43	9.65	0.11	9.87			
AV	202.177k	32.69	53.51	-20.82	19.63	Line	-	13.06	9.65	0.11	9.87			
QP	280.762k	40.14	60.80	-20.66	19.64	Line	-	20.50	9.65	0.12	9.87			
AV	280.762k	25.71	50.80	-25.09	19.64	Line	-	6.07	9.65	0.12	9.87			
QP	495.058k	35.57	56.08	-20.51	19.64	Line	-	15.93	9.64	0.13	9.87			
AV	495.058k	27.49	46.08	-18.59	19.64	Line	-	7.85	9.64	0.13	9.87			
QP	1.841M	23.25	56.00	-32.75	19.66	Line	-	3.59	9.65	0.14	9.87			
AV	1.841M	19.31	46.00	-26.69	19.66	Line	-	-0.35	9.65	0.14	9.87			
QP	5.501M	20.51	60.00	-39.49	19.76	Line	-	0.75	9.67	0.21	9.88			
AV	5.501M	16.89	50.00	-33.11	19.76	Line	-	-2.87	9.67	0.21	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	4	Power Phase	Neutral
Operating Function	Sample 2 ; Adapter Mode ; Radio 3 Wi-Fi 5G TX		

18/03/2020



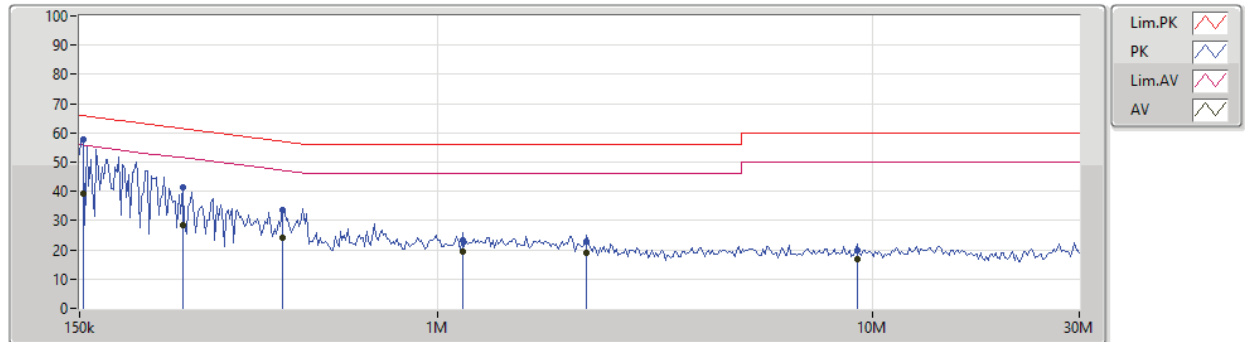
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	164.053k	55.33	65.25	-9.92	19.63	Neutral	"Worst"	35.70	9.65	0.11	9.87			
AV	164.053k	34.65	55.25	-20.60	19.63	Neutral	-	15.02	9.65	0.11	9.87			
QP	232.398k	44.49	62.37	-17.88	19.63	Neutral	-	24.86	9.64	0.12	9.87			
AV	232.398k	29.12	52.37	-23.25	19.63	Neutral	-	9.49	9.64	0.12	9.87			
QP	439.339k	32.93	57.07	-24.14	19.63	Neutral	-	13.30	9.63	0.13	9.87			
AV	439.339k	24.49	47.07	-22.58	19.63	Neutral	-	4.86	9.63	0.13	9.87			
QP	1.237M	26.24	56.00	-29.76	19.64	Neutral	-	6.60	9.64	0.12	9.88			
AV	1.237M	21.83	46.00	-24.17	19.64	Neutral	-	2.19	9.64	0.12	9.88			
QP	5.556M	21.86	60.00	-38.14	19.76	Neutral	-	2.10	9.67	0.21	9.88			
AV	5.556M	18.23	50.00	-31.77	19.76	Neutral	-	-1.53	9.67	0.21	9.88			
QP	13.878M	21.96	60.00	-38.04	19.89	Neutral	-	2.07	9.71	0.30	9.88			
AV	13.878M	18.26	50.00	-31.74	19.89	Neutral	-	-1.63	9.71	0.30	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	4	Power Phase	Line
Operating Function	Sample 2 ; Adapter Mode ; Radio 3 Wi-Fi 5G TX		

18/03/2020



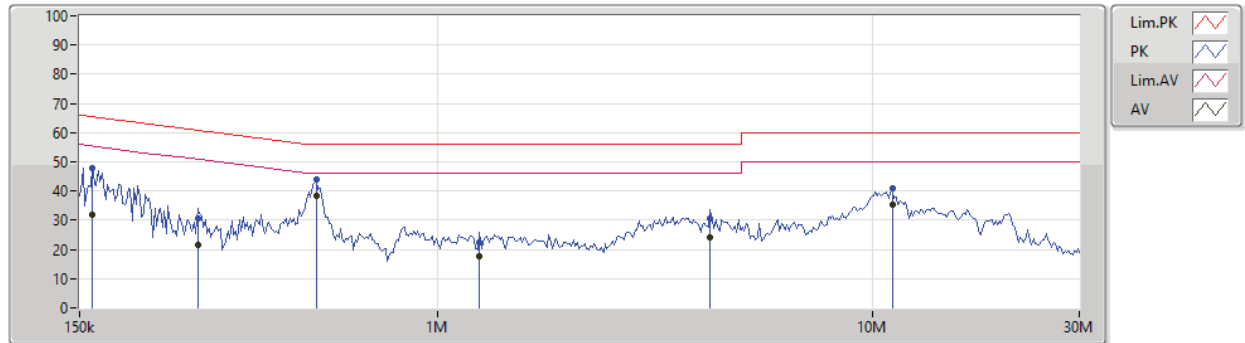
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	57.83	65.83	-8.00	19.64	Line	"Worst"	38.19	9.66	0.11	9.87			
AV	153.015k	39.25	55.83	-16.58	19.64	Line	-	19.61	9.66	0.11	9.87			
QP	259.279k	41.21	61.45	-20.24	19.64	Line	-	21.57	9.65	0.12	9.87			
AV	259.279k	28.55	51.45	-22.90	19.64	Line	-	8.91	9.65	0.12	9.87			
QP	439.339k	33.41	57.07	-23.66	19.64	Line	-	13.77	9.64	0.13	9.87			
AV	439.339k	24.05	47.07	-23.02	19.64	Line	-	4.41	9.64	0.13	9.87			
QP	1.142M	23.49	56.00	-32.51	19.64	Line	-	3.85	9.64	0.12	9.88			
AV	1.142M	19.43	46.00	-26.57	19.64	Line	-	-0.21	9.64	0.12	9.88			
QP	2.202M	22.80	56.00	-33.20	19.67	Line	-	3.13	9.65	0.15	9.87			
AV	2.202M	19.09	46.00	-26.91	19.67	Line	-	-0.58	9.65	0.15	9.87			
QP	9.229M	19.91	60.00	-40.09	19.83	Line	-	0.08	9.69	0.26	9.88			
AV	9.229M	16.92	50.00	-33.08	19.83	Line	-	-2.91	9.69	0.26	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	5	Power Phase	Neutral
Operating Function	Sample 3 ; PoE Mode ; Radio 1 Wi-Fi 5G TX		

06/04/2020



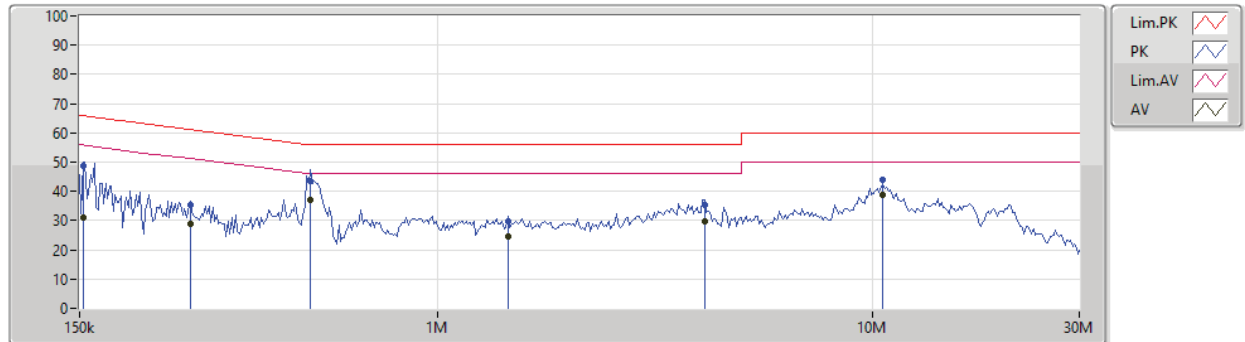
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	160.82k	47.69	65.43	-17.74	19.63	Neutral	-	28.06	9.65	0.11	9.87			
AV	160.82k	31.72	55.43	-23.71	19.63	Neutral	-	12.09	9.65	0.11	9.87			
QP	280.762k	30.79	60.80	-30.01	19.63	Neutral	-	11.16	9.64	0.12	9.87			
AV	280.762k	21.68	50.80	-29.12	19.63	Neutral	-	2.05	9.64	0.12	9.87			
QP	525.514k	43.79	56.00	-12.21	19.63	Neutral	-	24.16	9.63	0.13	9.87			
AV	525.514k	38.20	46.00	-7.80	19.63	Neutral	"Worst"	18.57	9.63	0.13	9.87			
QP	1.249M	22.49	56.00	-33.51	19.64	Neutral	-	2.85	9.64	0.12	9.88			
AV	1.249M	17.88	46.00	-28.12	19.64	Neutral	-	-1.76	9.64	0.12	9.88			
QP	4.247M	30.52	56.00	-25.48	19.73	Neutral	-	10.79	9.66	0.19	9.88			
AV	4.247M	24.03	46.00	-21.97	19.73	Neutral	-	4.30	9.66	0.19	9.88			
QP	11.149M	40.80	60.00	-19.20	19.86	Neutral	-	20.94	9.70	0.28	9.88			
AV	11.149M	35.15	50.00	-14.85	19.86	Neutral	-	15.29	9.70	0.28	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	5	Power Phase	Line
Operating Function	Sample 3 ; PoE Mode ; Radio 1 Wi-Fi 5G TX		

06/04/2020



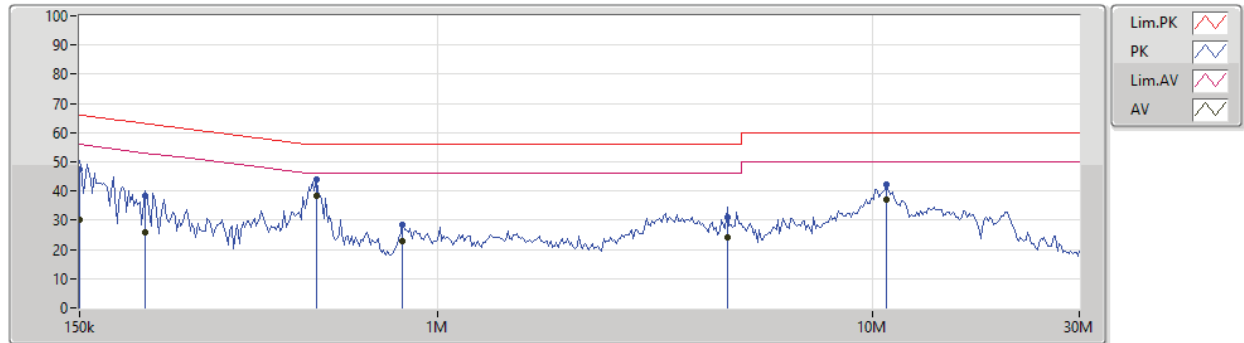
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	48.79	65.83	-17.04	19.64	Line	-	29.15	9.66	0.11	9.87			
AV	153.015k	31.11	55.83	-24.72	19.64	Line	-	11.47	9.66	0.11	9.87			
QP	269.806k	35.16	61.12	-25.96	19.64	Line	-	15.52	9.65	0.12	9.87			
AV	269.806k	28.90	51.12	-22.22	19.64	Line	-	9.26	9.65	0.12	9.87			
QP	510.059k	43.75	56.00	-12.25	19.64	Line	-	24.11	9.64	0.13	9.87			
AV	510.059k	37.13	46.00	-8.87	19.64	Line	"Worst"	17.49	9.64	0.13	9.87			
QP	1.45M	29.93	56.00	-26.07	19.65	Line	-	10.28	9.65	0.13	9.87			
AV	1.45M	24.68	46.00	-21.32	19.65	Line	-	5.03	9.65	0.13	9.87			
QP	4.122M	35.23	56.00	-20.77	19.73	Line	-	15.50	9.66	0.19	9.88			
AV	4.122M	29.91	46.00	-16.09	19.73	Line	-	10.18	9.66	0.19	9.88			
QP	10.608M	43.97	60.00	-16.03	19.85	Line	-	24.12	9.69	0.28	9.88			
AV	10.608M	38.91	50.00	-11.09	19.85	Line	-	19.06	9.69	0.28	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	6	Power Phase	Neutral
Operating Function	Sample 3 ; PoE Mode ; Radio 3 Wi-Fi 5G TX		

06/04/2020



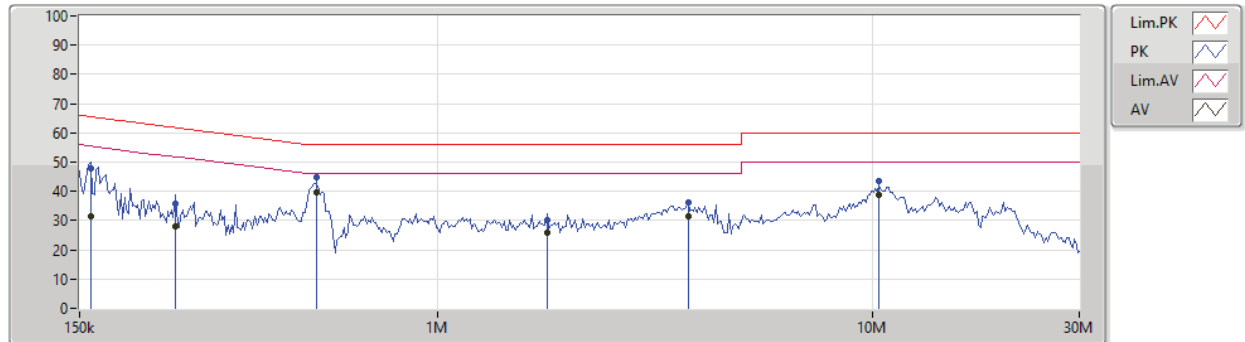
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	47.52	66.00	-18.48	19.63	Neutral	-	27.89	9.65	0.11	9.87			
AV	150k	30.23	56.00	-25.77	19.63	Neutral	-	10.60	9.65	0.11	9.87			
QP	212.49k	38.45	63.11	-24.66	19.62	Neutral	-	18.83	9.64	0.11	9.87			
AV	212.49k	25.83	53.11	-27.28	19.62	Neutral	-	6.21	9.64	0.11	9.87			
QP	525.514k	43.93	56.00	-12.07	19.63	Neutral	-	24.30	9.63	0.13	9.87			
AV	525.514k	38.40	46.00	-7.60	19.63	Neutral	"Worst"	18.77	9.63	0.13	9.87			
QP	830.553k	28.34	56.00	-27.66	19.62	Neutral	-	8.72	9.63	0.12	9.87			
AV	830.553k	22.70	46.00	-23.30	19.62	Neutral	-	3.08	9.63	0.12	9.87			
QP	4.645M	31.03	56.00	-24.97	19.75	Neutral	-	11.28	9.67	0.20	9.88			
AV	4.645M	24.13	46.00	-21.87	19.75	Neutral	-	4.38	9.67	0.20	9.88			
QP	10.821M	42.12	60.00	-17.88	19.86	Neutral	-	22.26	9.70	0.28	9.88			
AV	10.821M	37.02	50.00	-12.98	19.86	Neutral	-	17.16	9.70	0.28	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	6	Power Phase	Line
Operating Function	Sample 3 ; PoE Mode ; Radio 3 Wi-Fi 5G TX		

06/04/2020



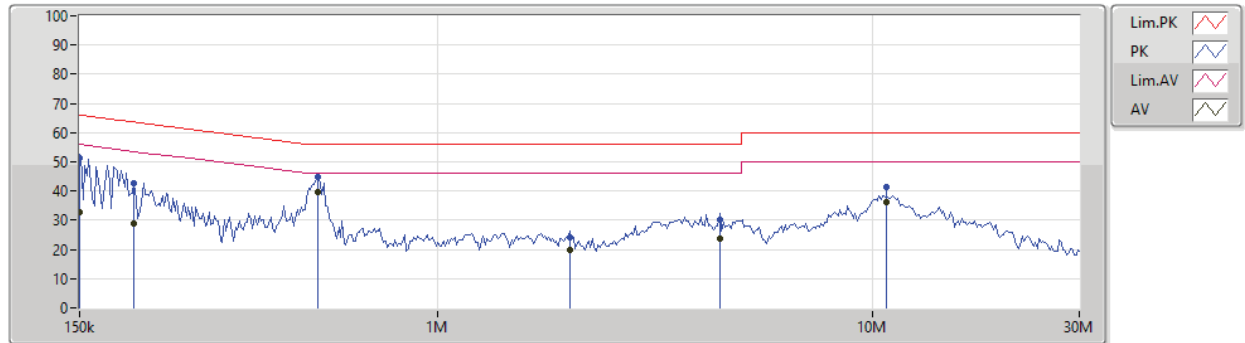
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159.228k	47.96	65.50	-17.54	19.64	Line	-	28.32	9.66	0.11	9.87			
AV	159.228k	31.52	55.50	-23.98	19.64	Line	-	11.88	9.66	0.11	9.87			
QP	249.162k	35.90	61.79	-25.89	19.64	Line	-	16.26	9.65	0.12	9.87			
AV	249.162k	28.04	51.79	-23.75	19.64	Line	-	8.40	9.65	0.12	9.87			
QP	525.514k	44.97	56.00	-11.03	19.64	Line	-	25.33	9.64	0.13	9.87			
AV	525.514k	39.55	46.00	-6.45	19.64	Line	"Worst"	19.91	9.64	0.13	9.87			
QP	1.787M	30.36	56.00	-25.64	19.66	Line	-	10.70	9.65	0.14	9.87			
AV	1.787M	25.84	46.00	-20.16	19.66	Line	-	6.18	9.65	0.14	9.87			
QP	3.769M	36.22	56.00	-19.78	19.72	Line	-	16.50	9.66	0.18	9.88			
AV	3.769M	31.35	46.00	-14.65	19.72	Line	-	11.63	9.66	0.18	9.88			
QP	10.399M	43.75	60.00	-16.25	19.84	Line	-	23.91	9.69	0.27	9.88			
AV	10.399M	38.67	50.00	-11.33	19.84	Line	-	18.83	9.69	0.27	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	7	Power Phase	Neutral
Operating Function	Sample 4 ; PoE Mode ; Radio 1 Wi-Fi 5G TX		

06/04/2020



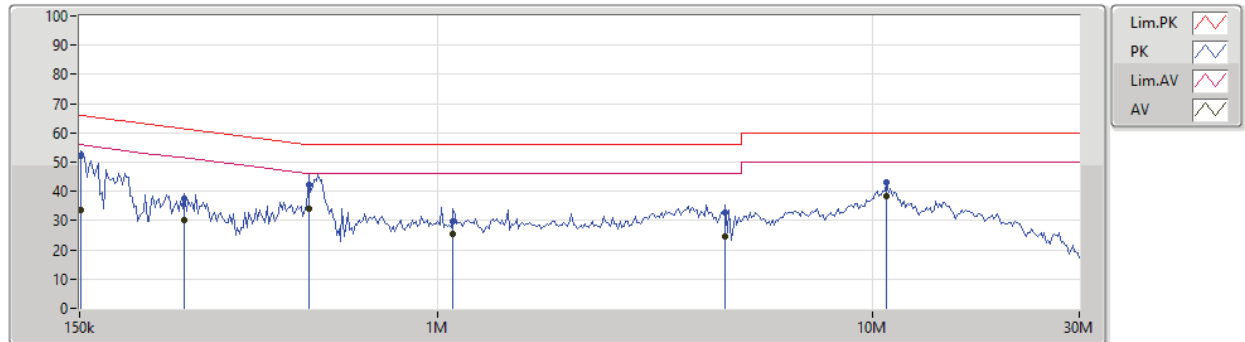
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	51.49	66.00	-14.51	19.63	Neutral	-	31.86	9.65	0.11	9.87			
AV	150k	32.76	56.00	-23.24	19.63	Neutral	-	13.13	9.65	0.11	9.87			
QP	200.176k	42.77	63.61	-20.84	19.62	Neutral	-	23.15	9.64	0.11	9.87			
AV	200.176k	29.08	53.61	-24.53	19.62	Neutral	-	9.46	9.64	0.11	9.87			
QP	530.769k	44.89	56.00	-11.11	19.63	Neutral	-	25.26	9.63	0.13	9.87			
AV	530.769k	39.81	46.00	-6.19	19.63	Neutral	"Worst"	20.18	9.63	0.13	9.87			
QP	2.014M	24.26	56.00	-31.74	19.67	Neutral	-	4.59	9.65	0.15	9.87			
AV	2.014M	19.79	46.00	-26.21	19.67	Neutral	-	0.12	9.65	0.15	9.87			
QP	4.464M	29.99	56.00	-26.01	19.73	Neutral	-	10.26	9.66	0.19	9.88			
AV	4.464M	23.61	46.00	-22.39	19.73	Neutral	-	3.88	9.66	0.19	9.88			
QP	10.821M	41.24	60.00	-18.76	19.86	Neutral	-	21.38	9.70	0.28	9.88			
AV	10.821M	36.15	50.00	-13.85	19.86	Neutral	-	16.29	9.70	0.28	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	7	Power Phase	Line
Operating Function	Sample 4 ; PoE Mode ; Radio 1 Wi-Fi 5G TX		

06/04/2020



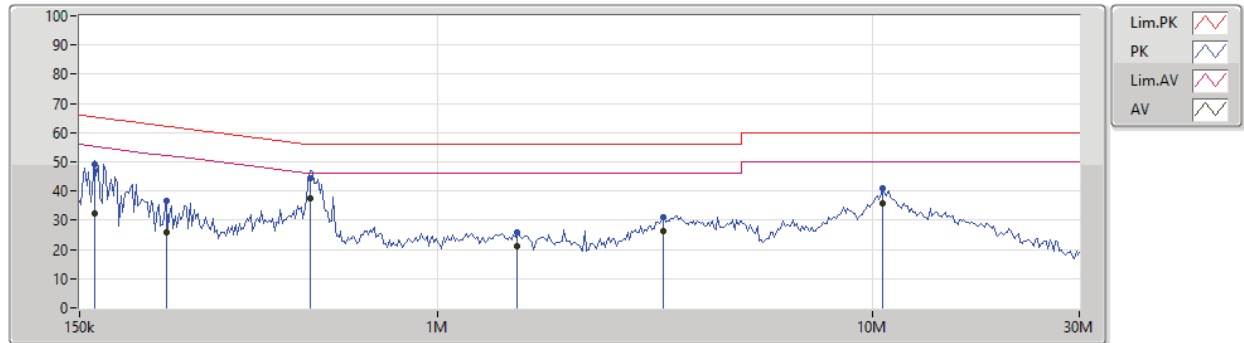
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.5k	52.09	65.92	-13.83	19.64	Line	-	32.45	9.66	0.11	9.87			
AV	151.5k	33.70	55.92	-22.22	19.64	Line	-	14.06	9.66	0.11	9.87			
QP	261.871k	37.36	61.37	-24.01	19.64	Line	-	17.72	9.65	0.12	9.87			
AV	261.871k	30.15	51.37	-21.22	19.64	Line	-	10.51	9.65	0.12	9.87			
QP	505.009k	42.30	56.00	-13.70	19.64	Line	-	22.66	9.64	0.13	9.87			
AV	505.009k	34.03	46.00	-11.97	19.64	Line	-	14.39	9.64	0.13	9.87			
QP	1.087M	29.61	56.00	-26.39	19.63	Line	-	9.98	9.64	0.11	9.88			
AV	1.087M	25.31	46.00	-20.69	19.63	Line	-	5.68	9.64	0.11	9.88			
QP	4.599M	32.62	56.00	-23.38	19.74	Line	-	12.88	9.66	0.20	9.88			
AV	4.599M	24.68	46.00	-21.32	19.74	Line	-	4.94	9.66	0.20	9.88			
QP	10.821M	43.24	60.00	-16.76	19.84	Line	-	23.40	9.68	0.28	9.88			
AV	10.821M	38.19	50.00	-11.81	19.84	Line	"Worst"	18.35	9.68	0.28	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	8	Power Phase	Neutral
Operating Function	Sample 4 ; PoE Mode ; Radio 3 Wi-Fi 5G TX		

06/04/2020



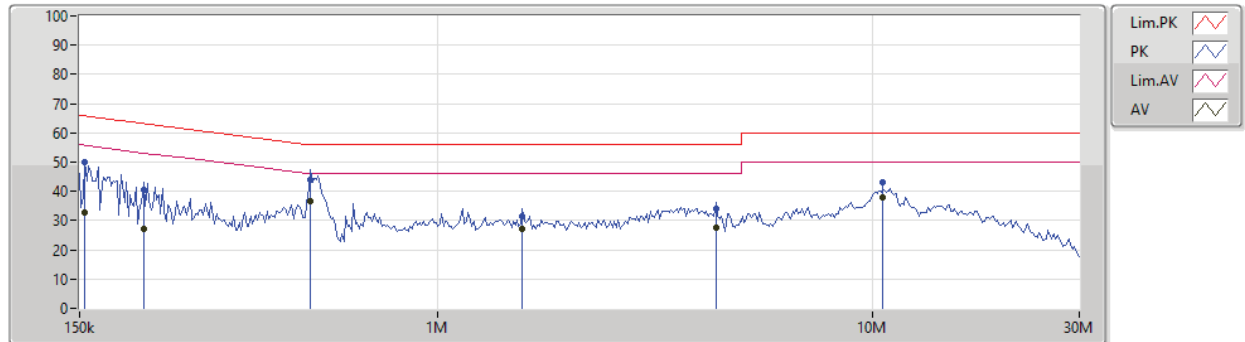
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	162.429k	48.93	65.33	-16.40	19.63	Neutral	-	29.30	9.65	0.11	9.87			
AV	162.429k	32.42	55.33	-22.91	19.63	Neutral	-	12.79	9.65	0.11	9.87			
QP	237.069k	36.56	62.20	-25.64	19.63	Neutral	-	16.93	9.64	0.12	9.87			
AV	237.069k	25.69	52.20	-26.51	19.63	Neutral	-	6.06	9.64	0.12	9.87			
QP	510.059k	44.27	56.00	-11.73	19.63	Neutral	-	24.64	9.63	0.13	9.87			
AV	510.059k	37.39	46.00	-8.61	19.63	Neutral	"Worst"	17.76	9.63	0.13	9.87			
QP	1.524M	25.89	56.00	-30.11	19.64	Neutral	-	6.25	9.64	0.13	9.87			
AV	1.524M	21.26	46.00	-24.74	19.64	Neutral	-	1.62	9.64	0.13	9.87			
QP	3.312M	31.17	56.00	-24.83	19.72	Neutral	-	11.45	9.66	0.18	9.88			
AV	3.312M	26.17	46.00	-19.83	19.72	Neutral	-	6.45	9.66	0.18	9.88			
QP	10.608M	41.04	60.00	-18.96	19.86	Neutral	-	21.18	9.70	0.28	9.88			
AV	10.608M	35.93	50.00	-14.07	19.86	Neutral	-	16.07	9.70	0.28	9.88			



AC Power-line Conducted Emissions Result

Operating Mode	8	Power Phase	Line
Operating Function	Sample 4 ; PoE Mode ; Radio 3 Wi-Fi 5G TX		

06/04/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.545k	49.98	65.75	-15.77	19.64	Line	-	30.34	9.66	0.11	9.87			
AV	154.545k	32.82	55.75	-22.93	19.64	Line	-	13.18	9.66	0.11	9.87			
QP	210.387k	40.54	63.19	-22.65	19.63	Line	-	20.91	9.65	0.11	9.87			
AV	210.387k	27.02	53.19	-26.17	19.63	Line	-	7.39	9.65	0.11	9.87			
QP	510.059k	43.97	56.00	-12.03	19.64	Line	-	24.33	9.64	0.13	9.87			
AV	510.059k	36.59	46.00	-9.41	19.64	Line	"Worst"	16.95	9.64	0.13	9.87			
QP	1.57M	31.42	56.00	-24.58	19.66	Line	-	11.76	9.65	0.14	9.87			
AV	1.57M	27.14	46.00	-18.86	19.66	Line	-	7.48	9.65	0.14	9.87			
QP	4.376M	34.19	56.00	-21.81	19.73	Line	-	14.46	9.66	0.19	9.88			
AV	4.376M	27.73	46.00	-18.27	19.73	Line	-	8.00	9.66	0.19	9.88			
QP	10.608M	42.95	60.00	-17.05	19.85	Line	-	23.10	9.69	0.28	9.88			
AV	10.608M	37.96	50.00	-12.04	19.85	Line	-	18.11	9.69	0.28	9.88			

**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	19.29M	16.372M	16M4D1D	18.93M	16.342M
802.11ac VHT20_Nss1,(MCS0)_4TX	20.43M	17.571M	17M6D1D	19.98M	17.541M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.74M	36.162M	36M2D1D	39.9M	36.042M
802.11ac VHT80_Nss1,(MCS0)_4TX	81.96M	75.562M	75M6D1D	81.48M	75.202M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.54M	18.951M	19M0D1D	20.85M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.34M	37.781M	37M8D1D	40.86M	37.721M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.56M	77.121M	77M1D1D	81.96M	76.882M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.29M	16.582M	16M6D1D	15.24M	16.342M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.52M	17.631M	17M6D1D	15.57M	17.571M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.3M	36.462M	36M5D1D	33.12M	36.102M
802.11ac VHT80_Nss1,(MCS0)_4TX	75M	75.322M	75M3D1D	63.48M	75.202M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.93M	19.04M	19M0D1D	17.34M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.86M	38.081M	38M1D1D	34.92M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.76M	77.361M	77M4D1D	72.48M	76.882M

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	19.05M	16.372M	19.23M	16.342M	18.96M	16.342M	19.23M	16.372M
5200MHz	Pass	Inf	19.29M	16.372M	18.93M	16.342M	19.08M	16.342M	19.08M	16.342M
5240MHz	Pass	Inf	19.02M	16.372M	19.08M	16.372M	18.96M	16.372M	19.08M	16.342M
5745MHz	Pass	500k	15.63M	16.462M	15.33M	16.372M	15.63M	16.402M	16.26M	16.462M
5785MHz	Pass	500k	16.02M	16.582M	15.48M	16.522M	16.29M	16.402M	15.99M	16.432M
5825MHz	Pass	500k	15.33M	16.342M	16.02M	16.462M	15.24M	16.342M	15.93M	16.402M
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.43M	17.541M	20.19M	17.571M	19.98M	17.571M	20.16M	17.541M
5200MHz	Pass	Inf	20.34M	17.571M	20.13M	17.541M	20.01M	17.541M	20.1M	17.541M
5240MHz	Pass	Inf	20.4M	17.571M	20.1M	17.571M	19.98M	17.541M	20.1M	17.571M
5745MHz	Pass	500k	16.29M	17.601M	17.52M	17.631M	17.16M	17.571M	15.93M	17.571M
5785MHz	Pass	500k	16.41M	17.601M	16.5M	17.571M	16.92M	17.601M	16.77M	17.601M
5825MHz	Pass	500k	16.8M	17.571M	16.92M	17.631M	15.57M	17.571M	16.89M	17.571M
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.74M	36.102M	40.38M	36.162M	40.5M	36.102M	39.9M	36.102M
5230MHz	Pass	Inf	40.5M	36.102M	40.14M	36.042M	40.44M	36.162M	40.26M	36.162M
5755MHz	Pass	500k	34.86M	36.462M	35.28M	36.162M	36.06M	36.222M	35.7M	36.222M
5795MHz	Pass	500k	36.3M	36.402M	35.28M	36.102M	34.8M	36.162M	33.12M	36.222M
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	75.322M	81.48M	75.442M	81.96M	75.562M	81.6M	75.202M
5775MHz	Pass	500k	63.48M	75.322M	66.96M	75.202M	75M	75.322M	74.04M	75.322M
802.11ax_HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.54M	18.921M	21.12M	18.921M	20.94M	18.921M	20.85M	18.921M
5200MHz	Pass	Inf	21.06M	18.921M	20.94M	18.921M	21.06M	18.891M	20.91M	18.891M
5240MHz	Pass	Inf	21.18M	18.951M	20.94M	18.921M	21M	18.921M	20.91M	18.891M
5745MHz	Pass	500k	17.7M	18.981M	18.75M	19.04M	17.67M	18.951M	18.81M	18.951M
5785MHz	Pass	500k	18.33M	19.01M	17.34M	18.951M	18.93M	18.951M	18.18M	18.921M
5825MHz	Pass	500k	17.64M	18.891M	18.48M	18.981M	18.18M	18.921M	18.63M	18.951M
802.11ax_HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.1M	37.721M	40.86M	37.781M	40.98M	37.721M	40.92M	37.721M
5230MHz	Pass	Inf	41.34M	37.721M	40.86M	37.721M	41.16M	37.721M	40.86M	37.721M
5755MHz	Pass	500k	37.86M	38.081M	35.94M	37.781M	36.24M	37.781M	37.32M	37.841M
5795MHz	Pass	500k	37.8M	38.081M	34.92M	37.841M	36.36M	37.781M	36.78M	37.901M
802.11ax_HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.08M	77.001M	82.32M	77.121M	81.96M	76.882M	82.56M	77.121M
5775MHz	Pass	500k	76.08M	77.241M	72.48M	76.882M	75.6M	77.001M	77.76M	77.361M

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

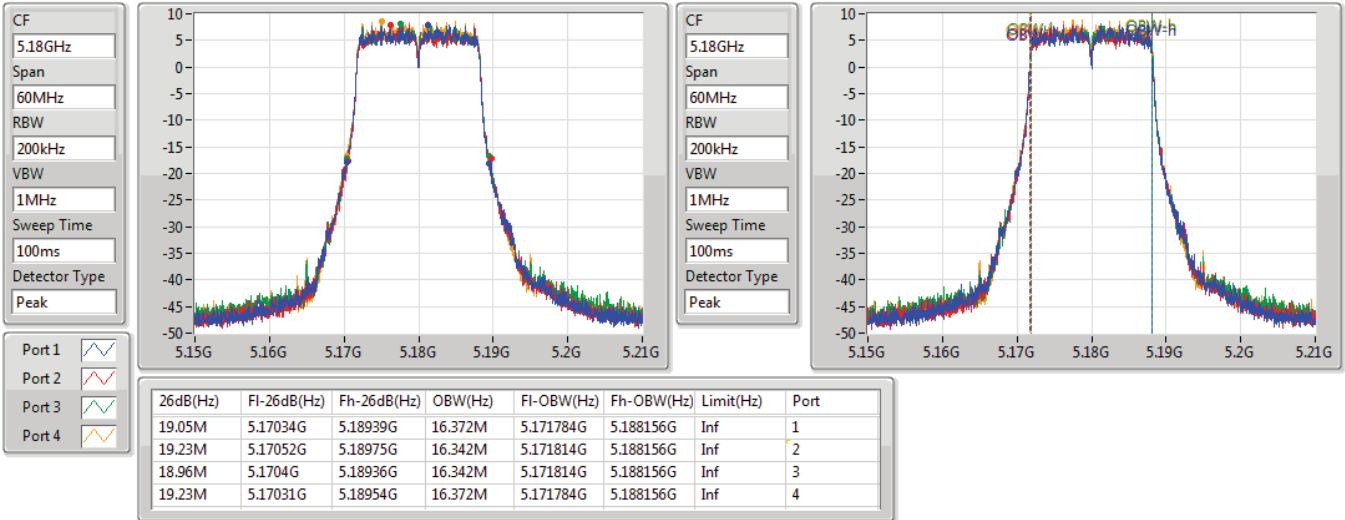
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

11/03/2020

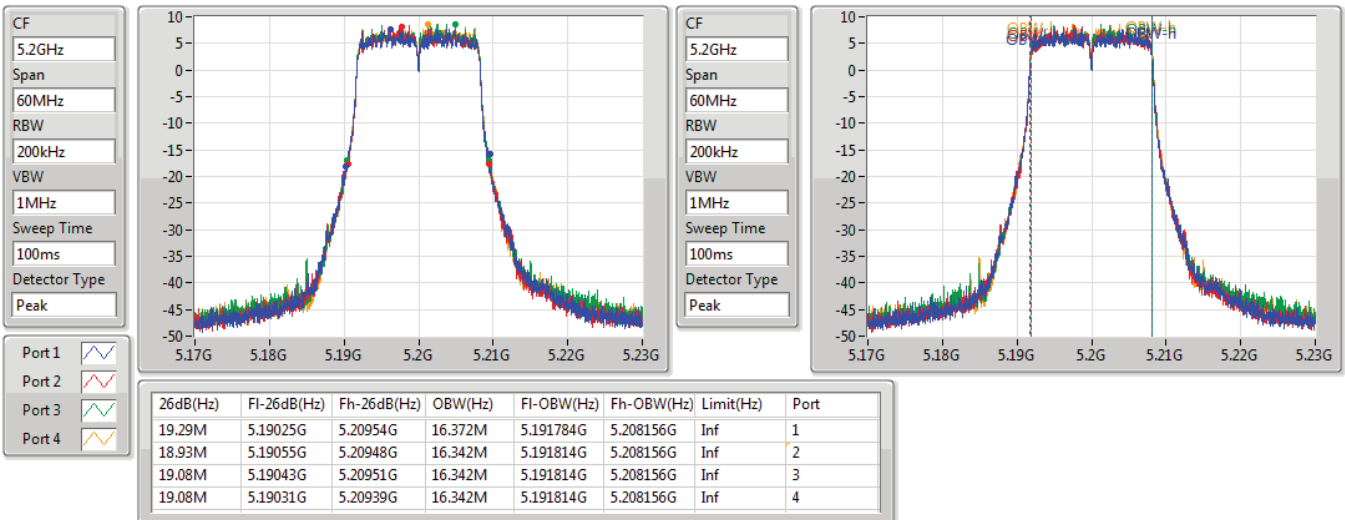


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

11/03/2020



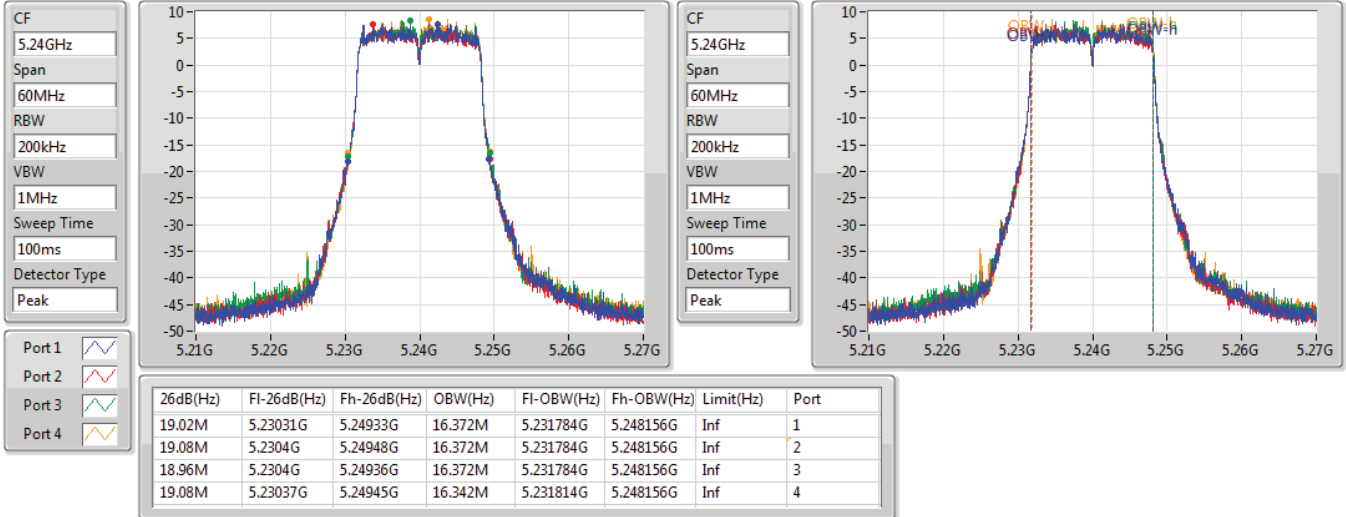


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

11/03/2020

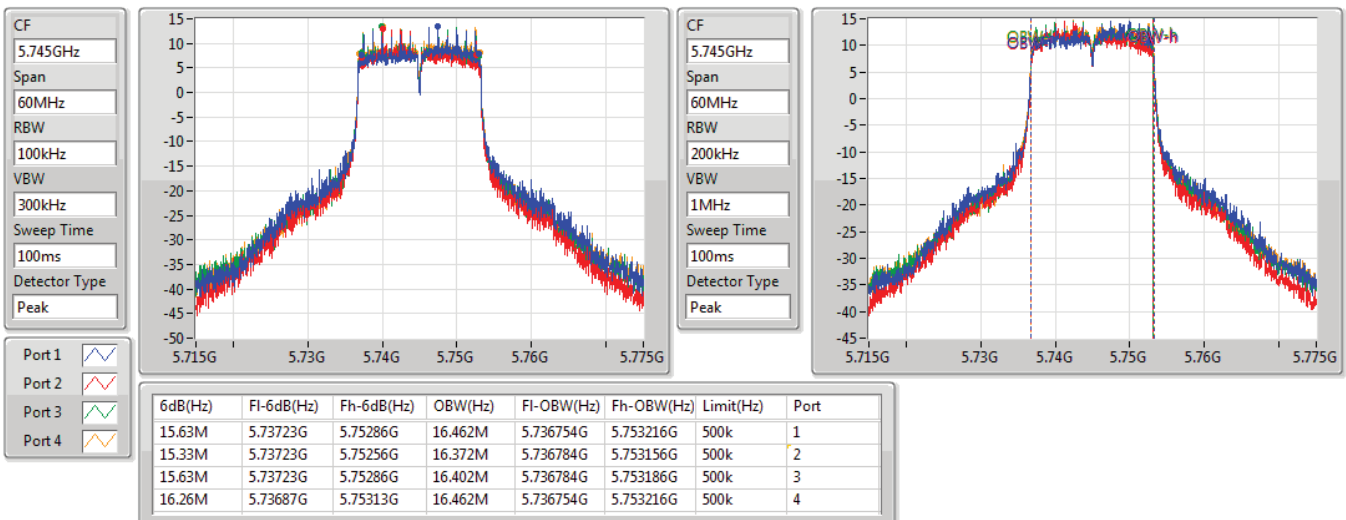


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

11/03/2020



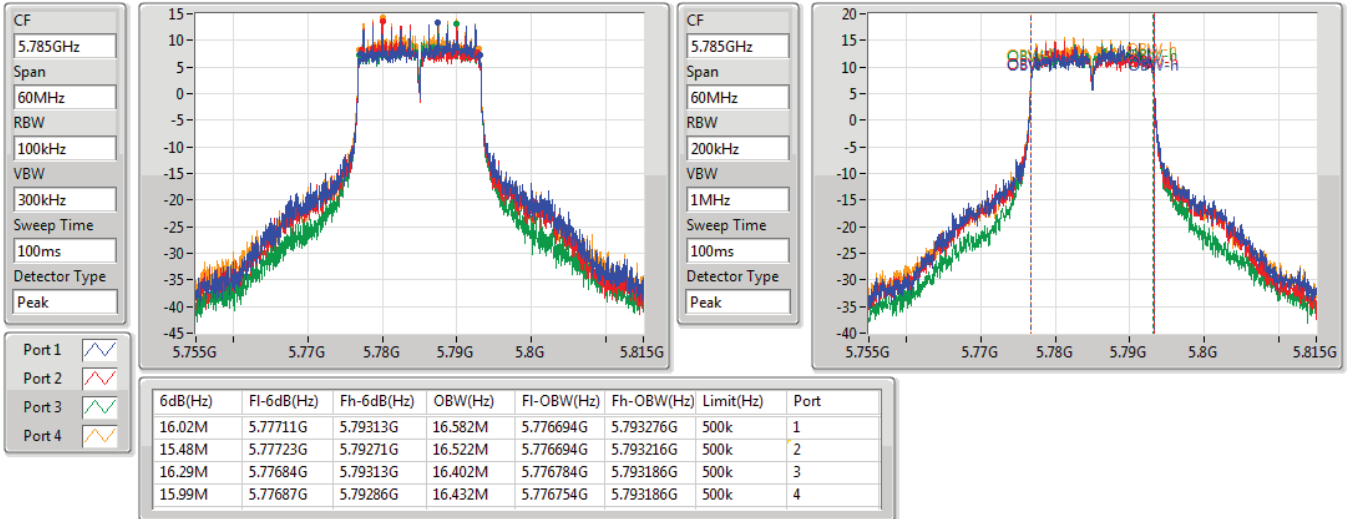


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

11/03/2020

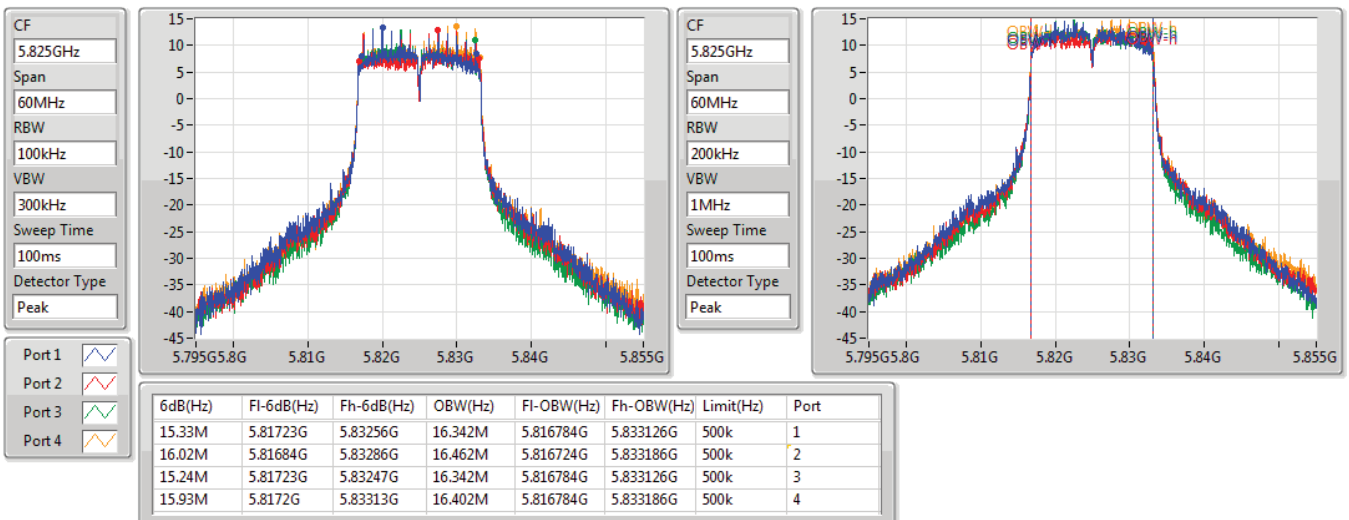


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

11/03/2020



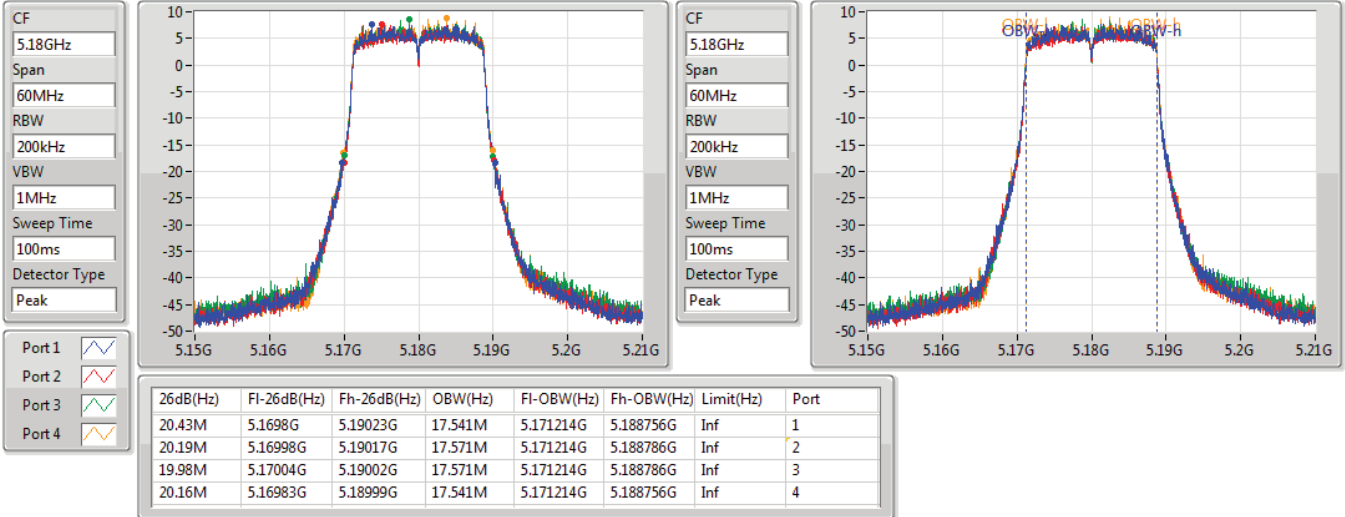


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

11/03/2020

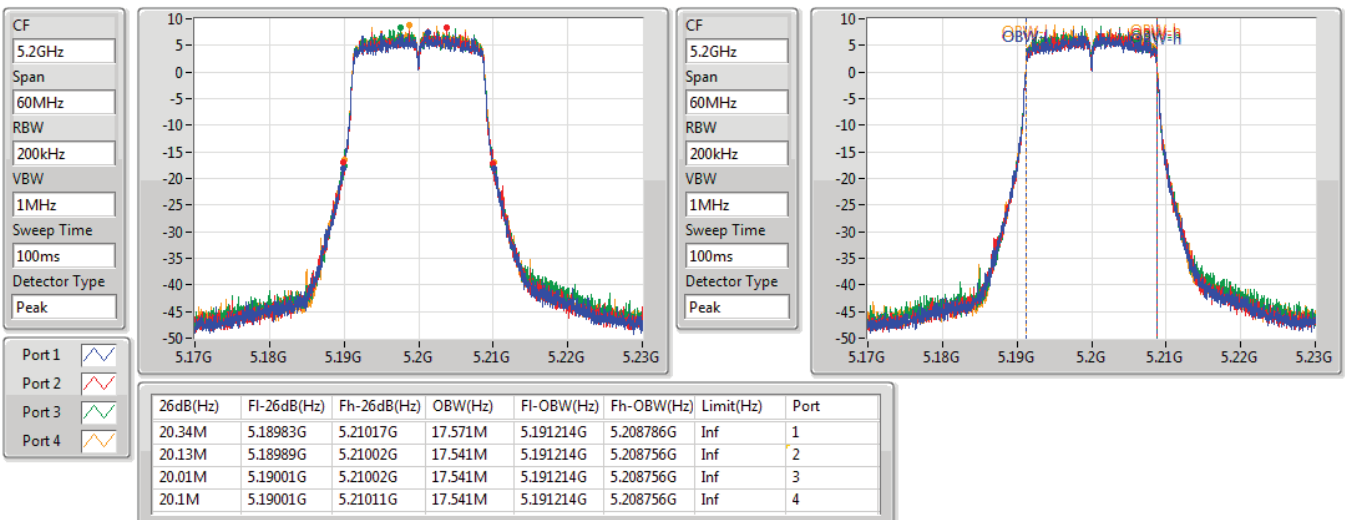


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

11/03/2020



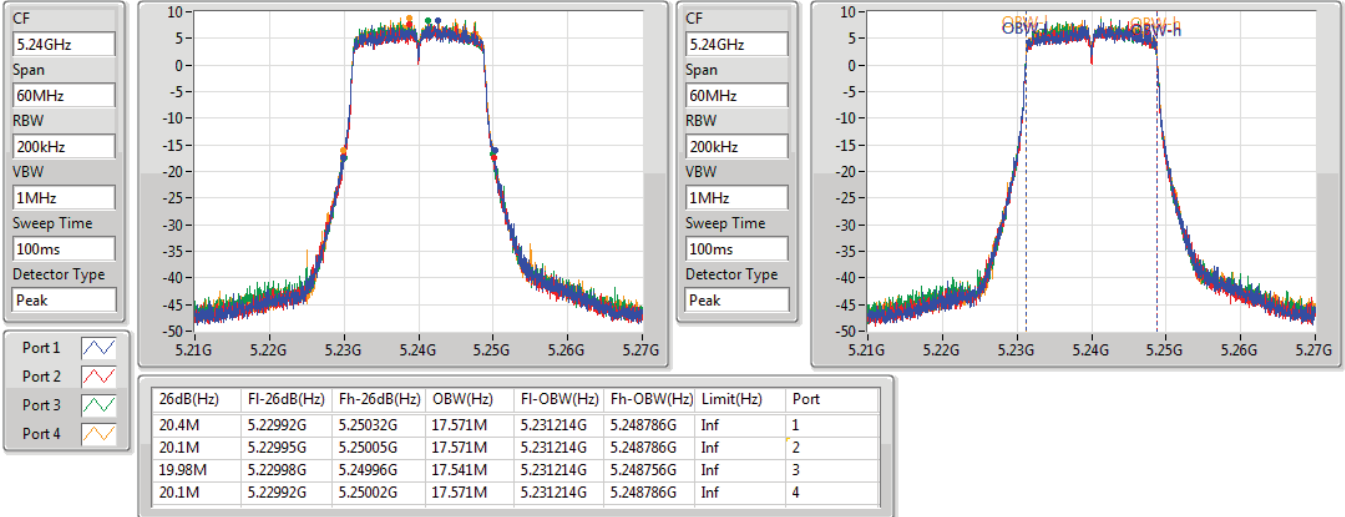


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5240MHz

11/03/2020

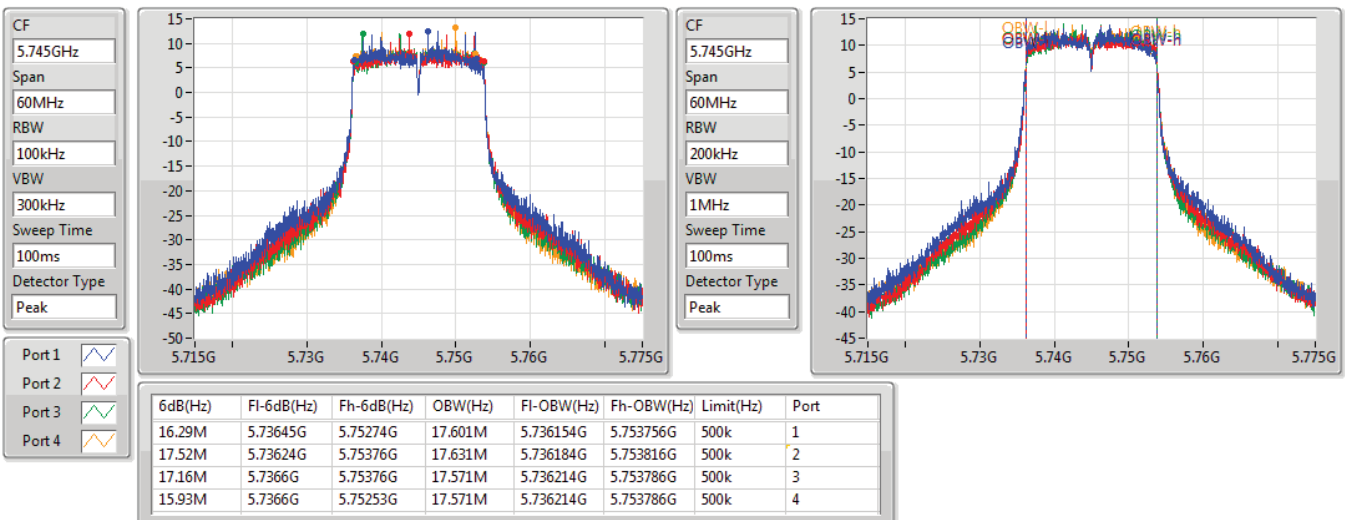


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

11/03/2020



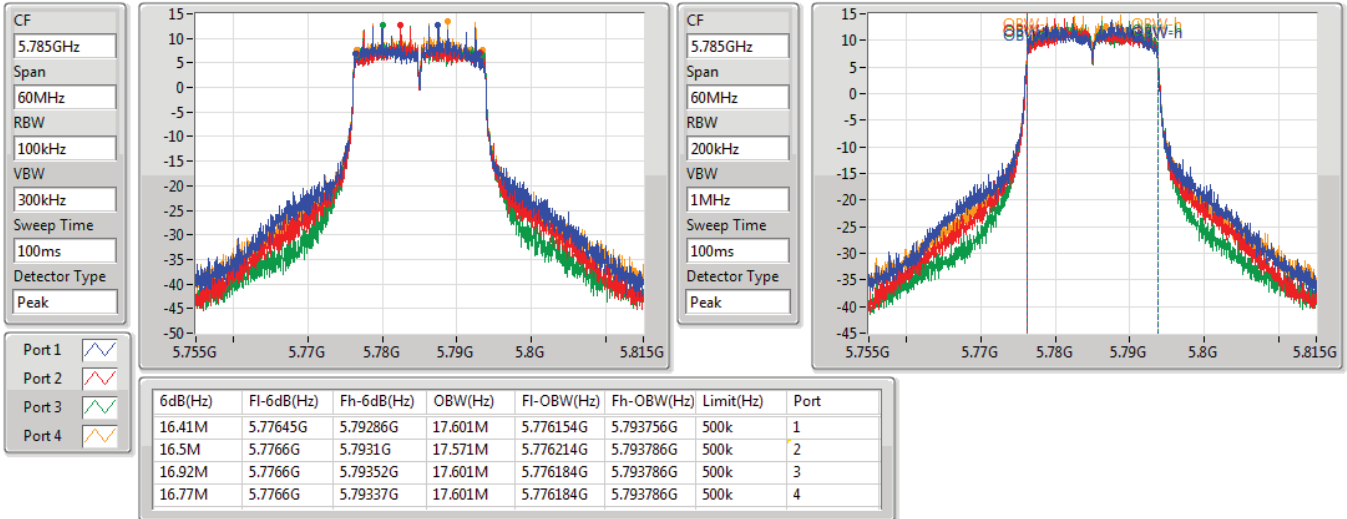


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5785MHz

11/03/2020

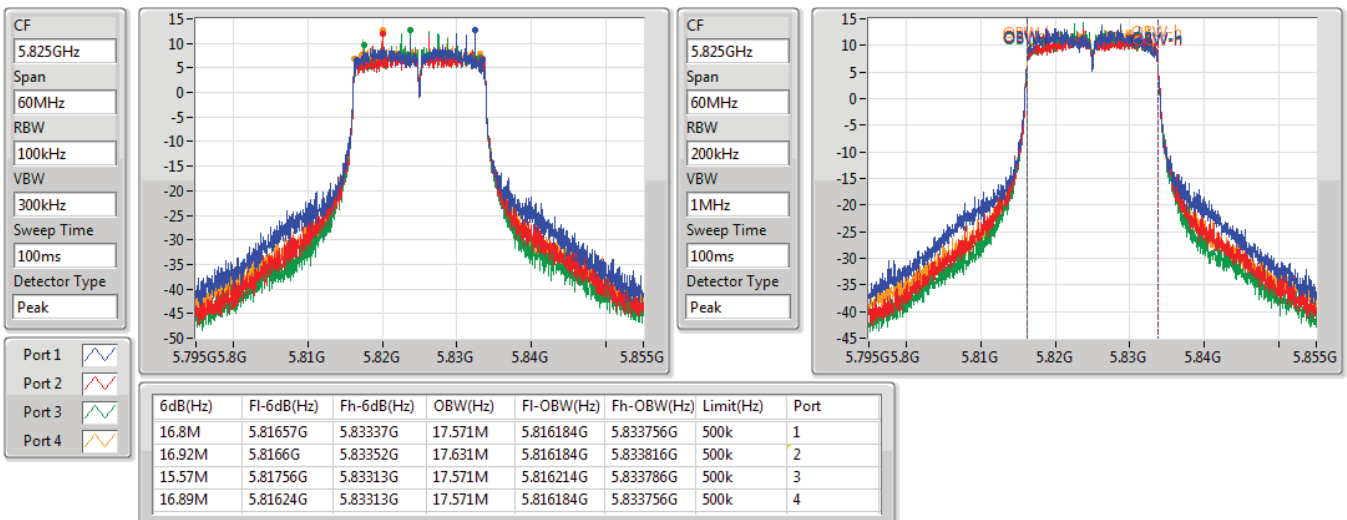


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5825MHz

11/03/2020

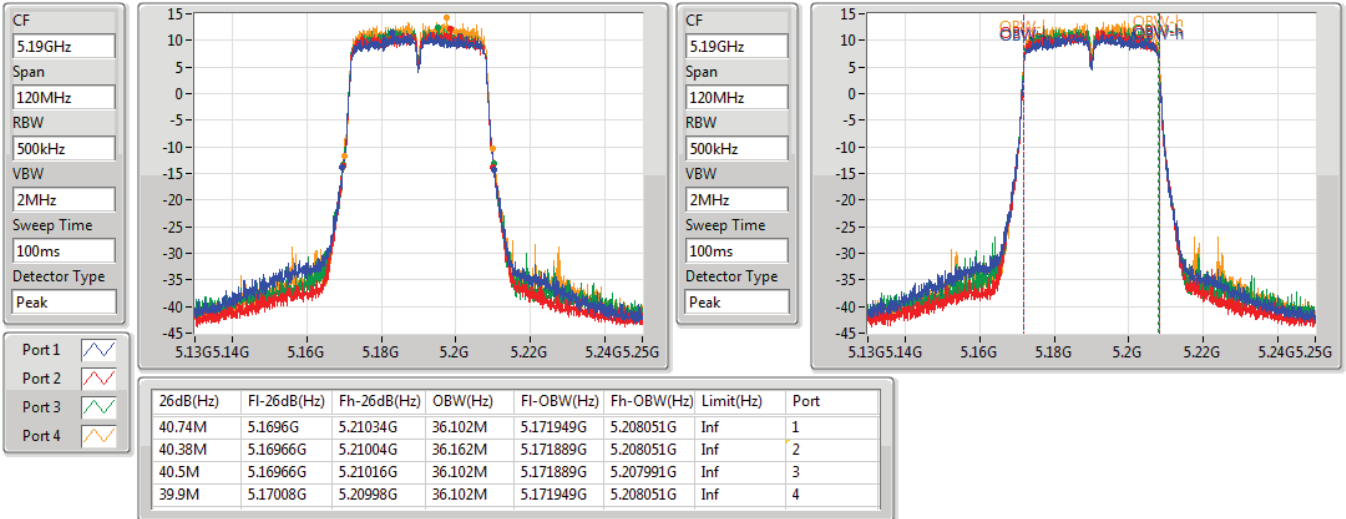


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5190MHz

12/03/2020

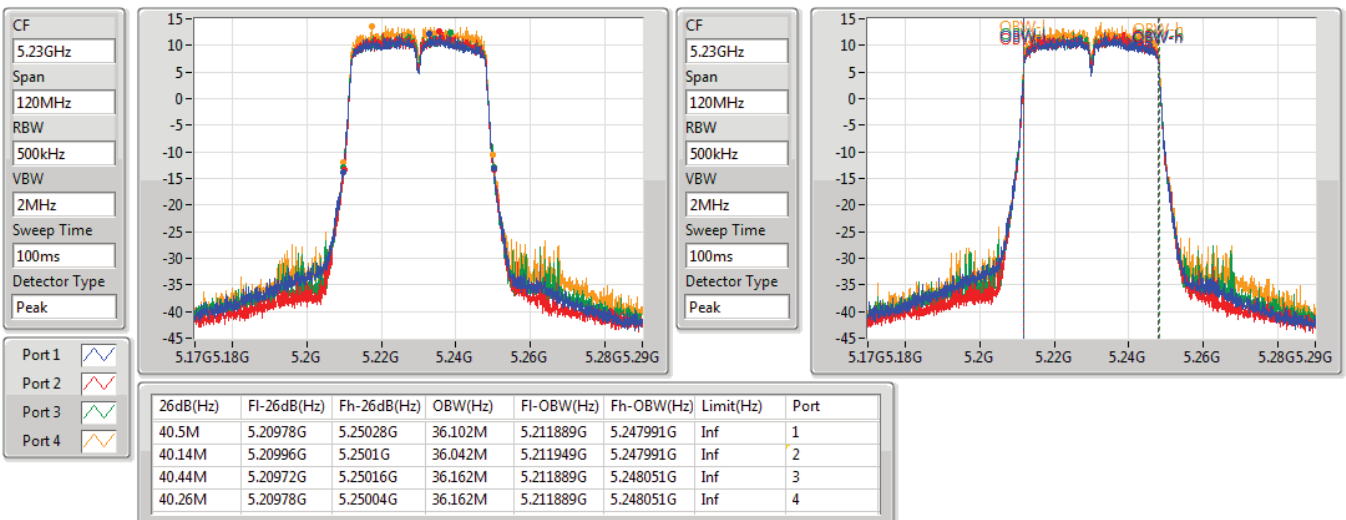


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5230MHz

12/03/2020



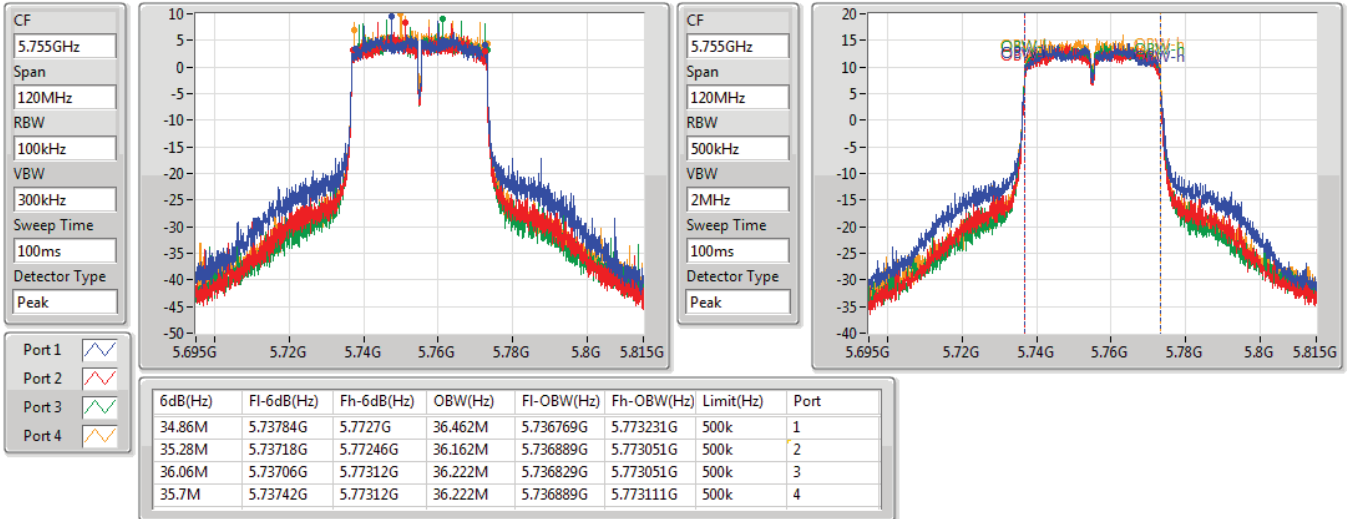


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5755MHz

12/03/2020

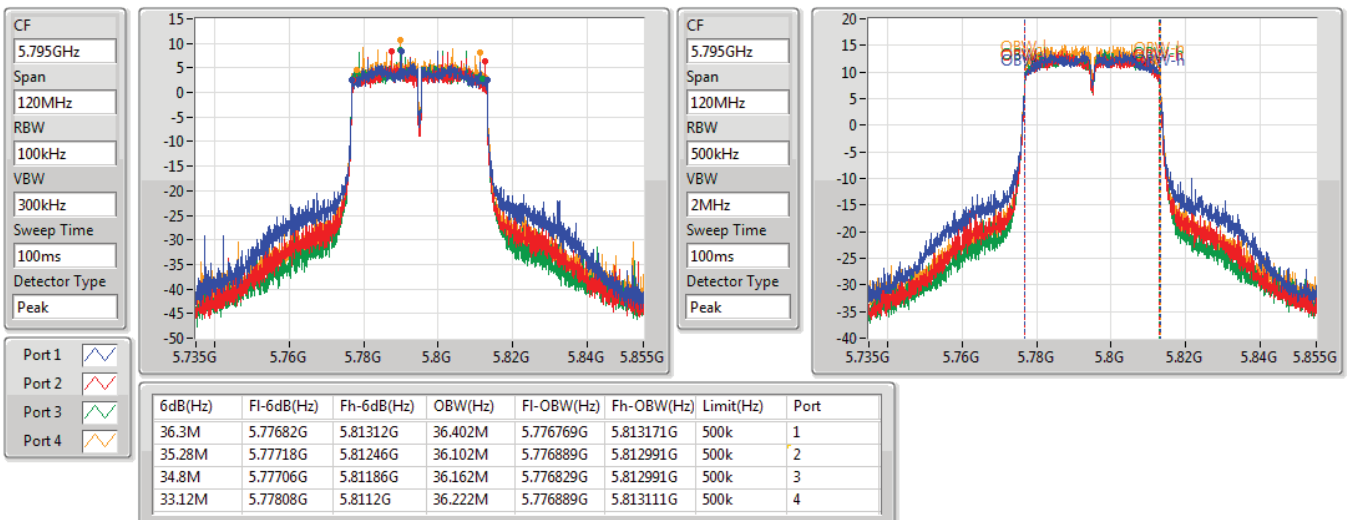


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

12/03/2020



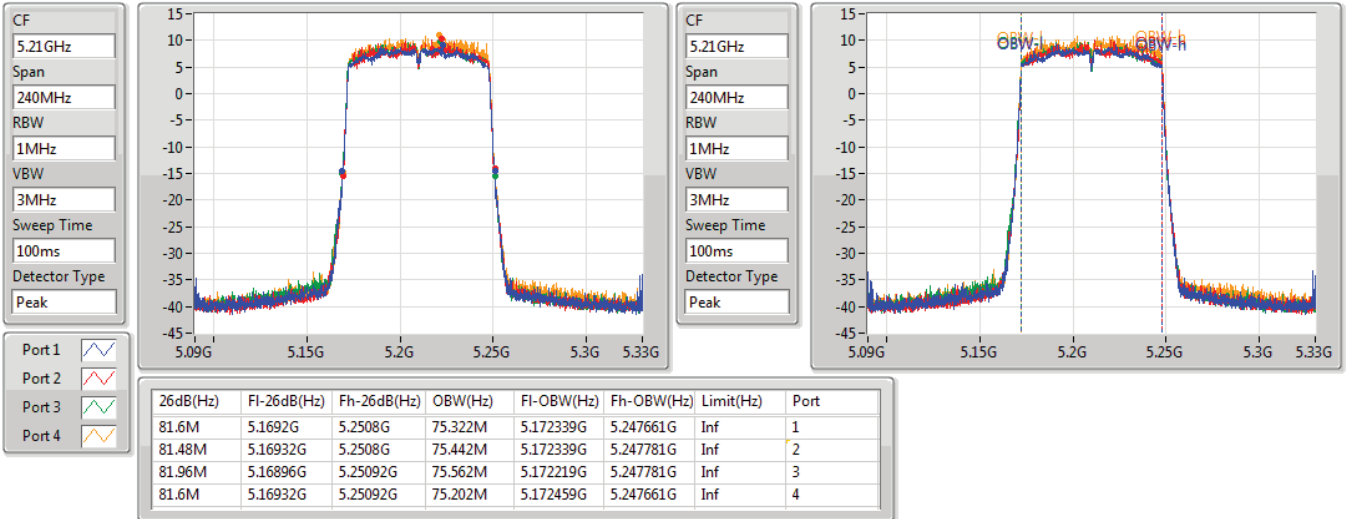


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5210MHz

12/03/2020

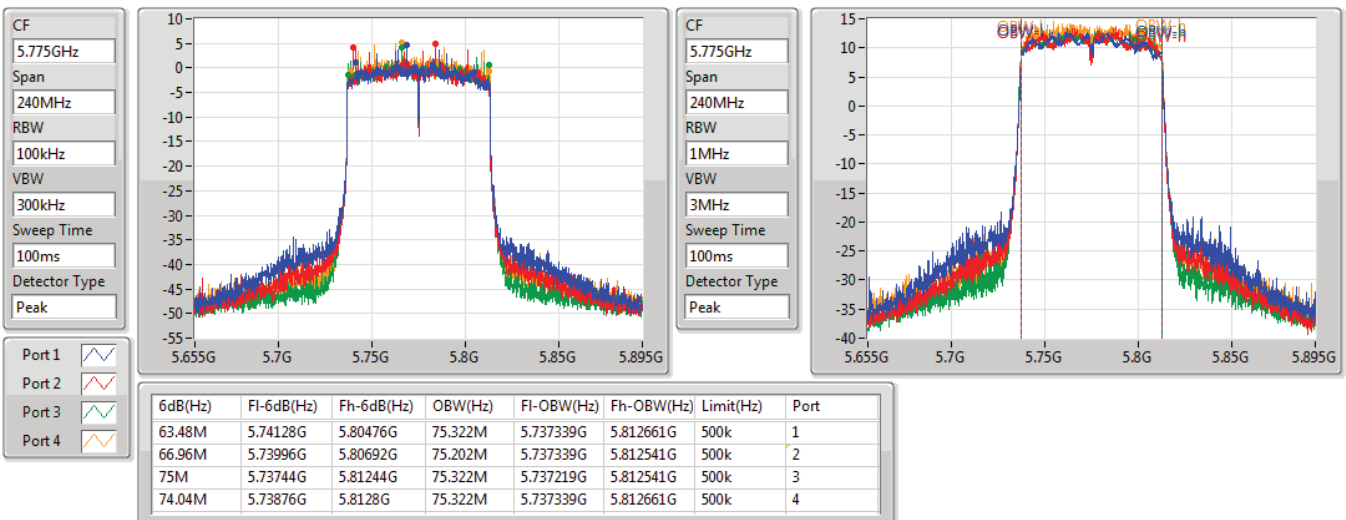


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5775MHz

12/03/2020



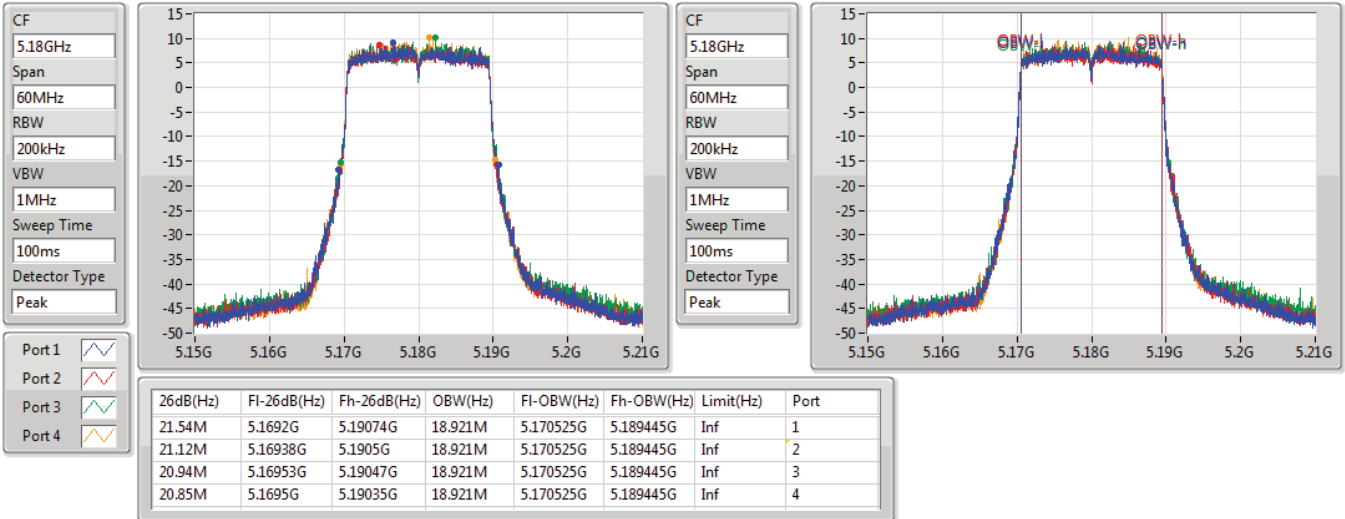


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

11/03/2020

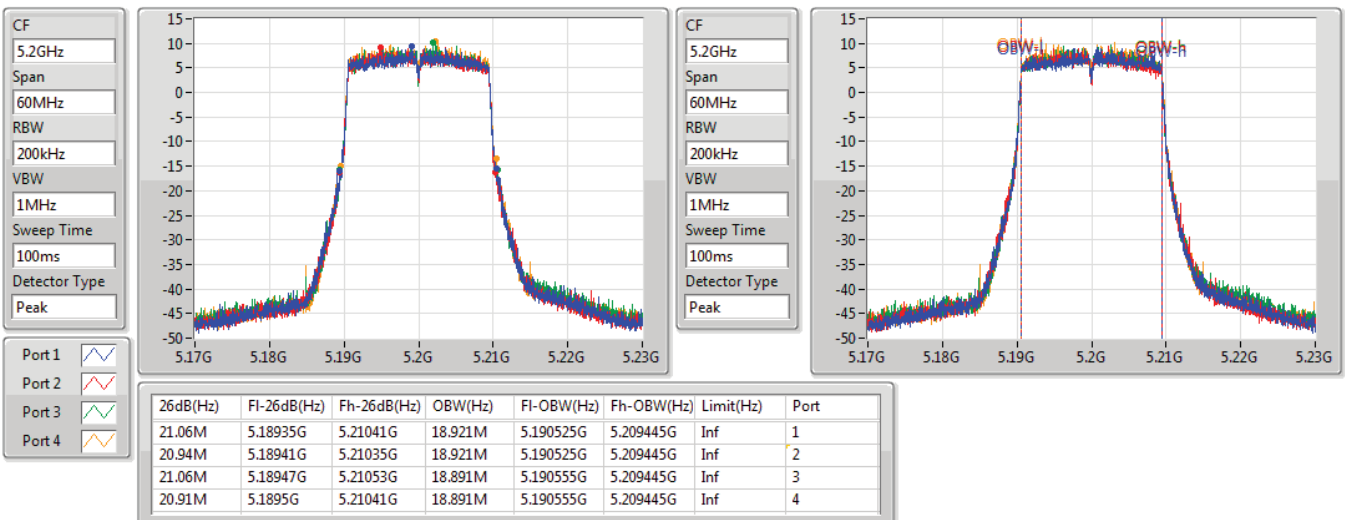


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

11/03/2020



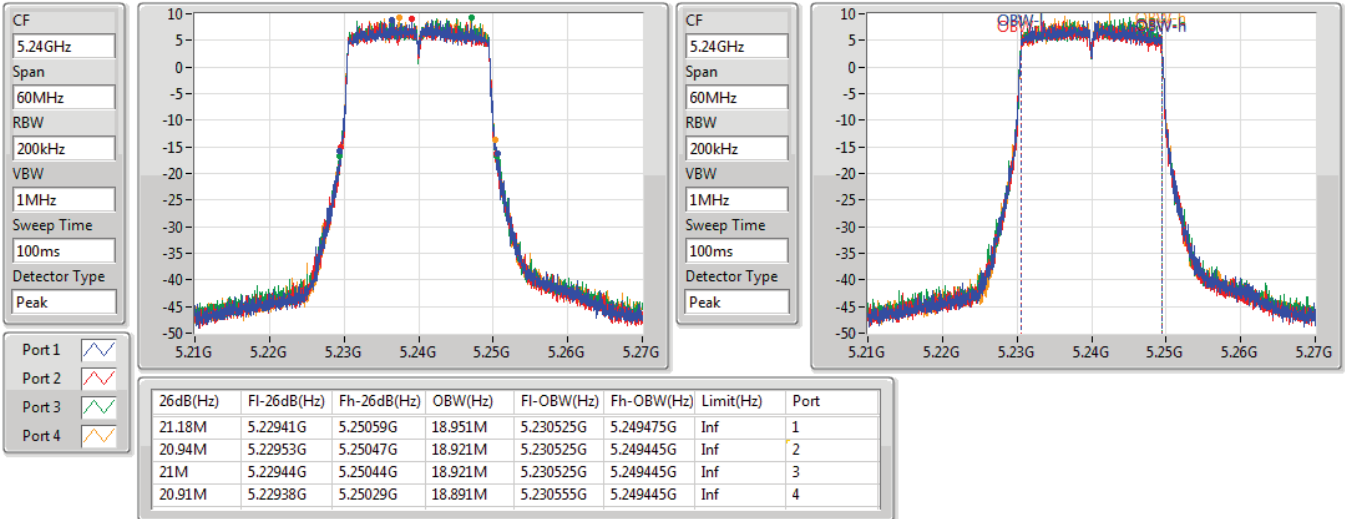


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

11/03/2020

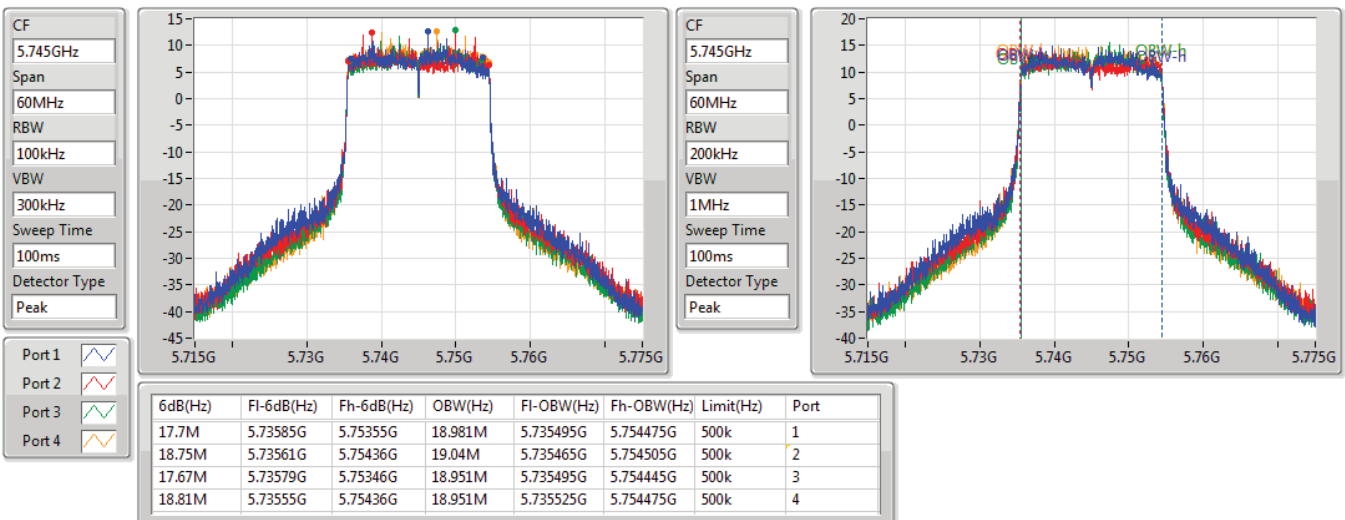


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

11/03/2020



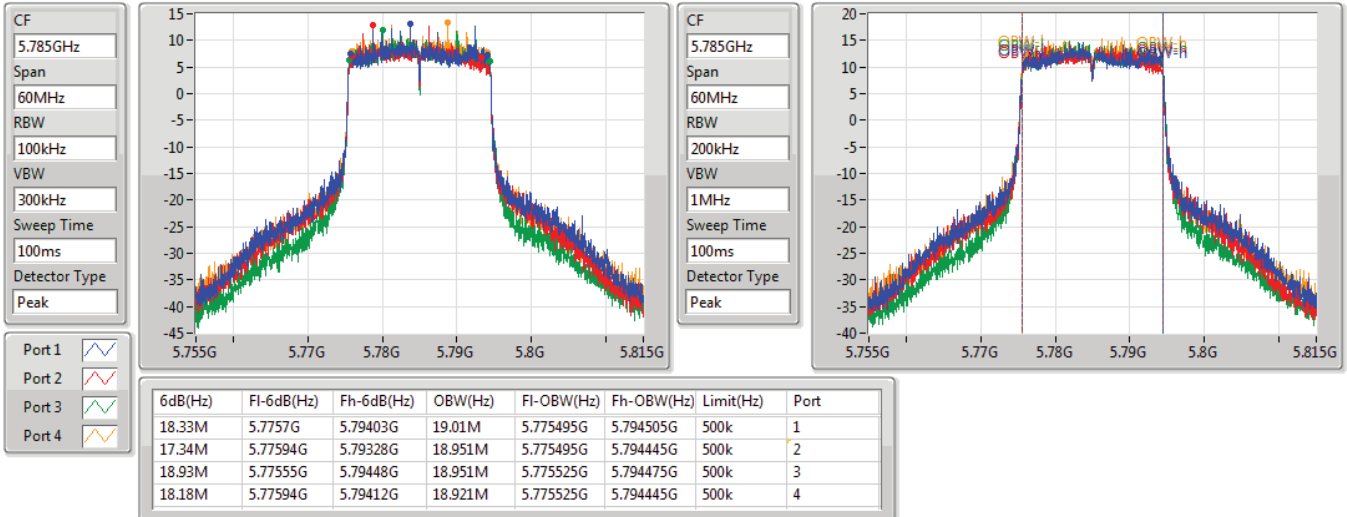


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

11/03/2020

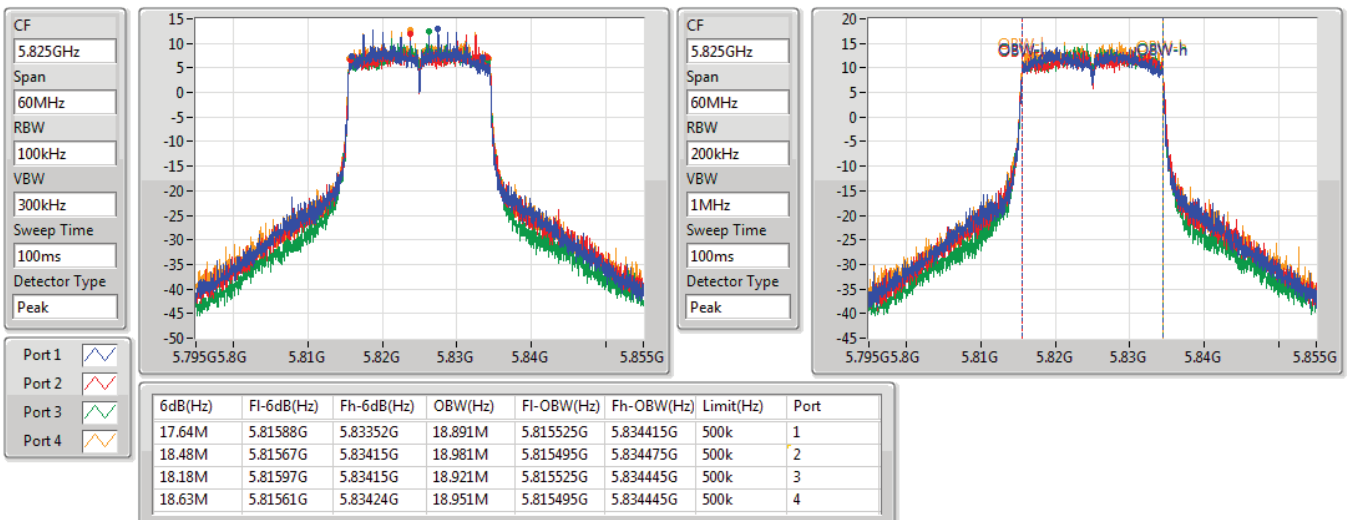


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

11/03/2020



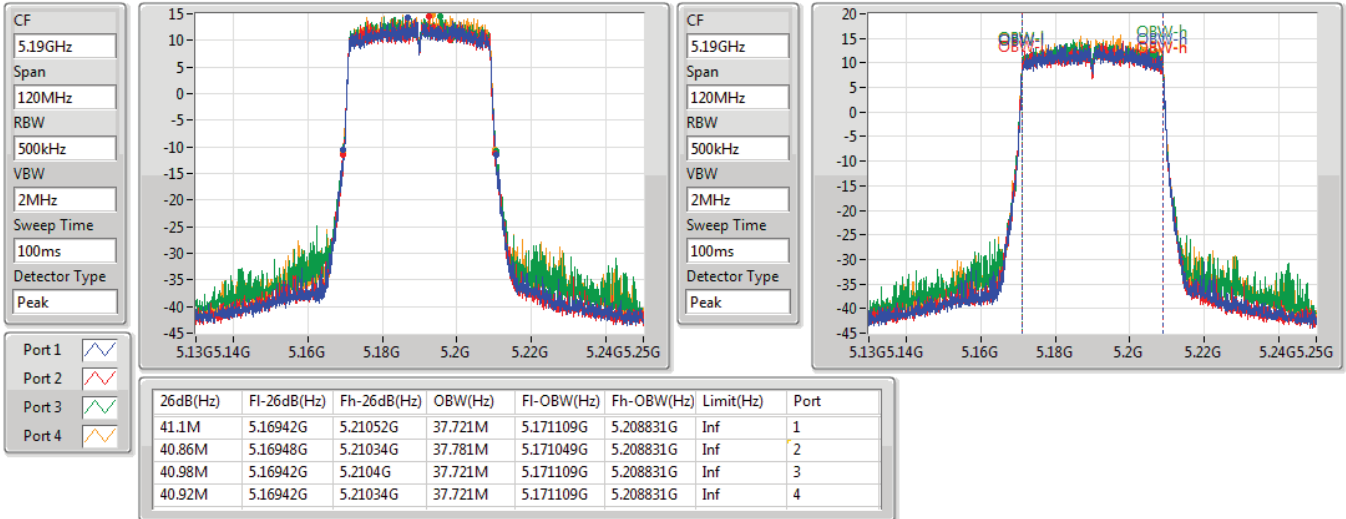


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

12/03/2020

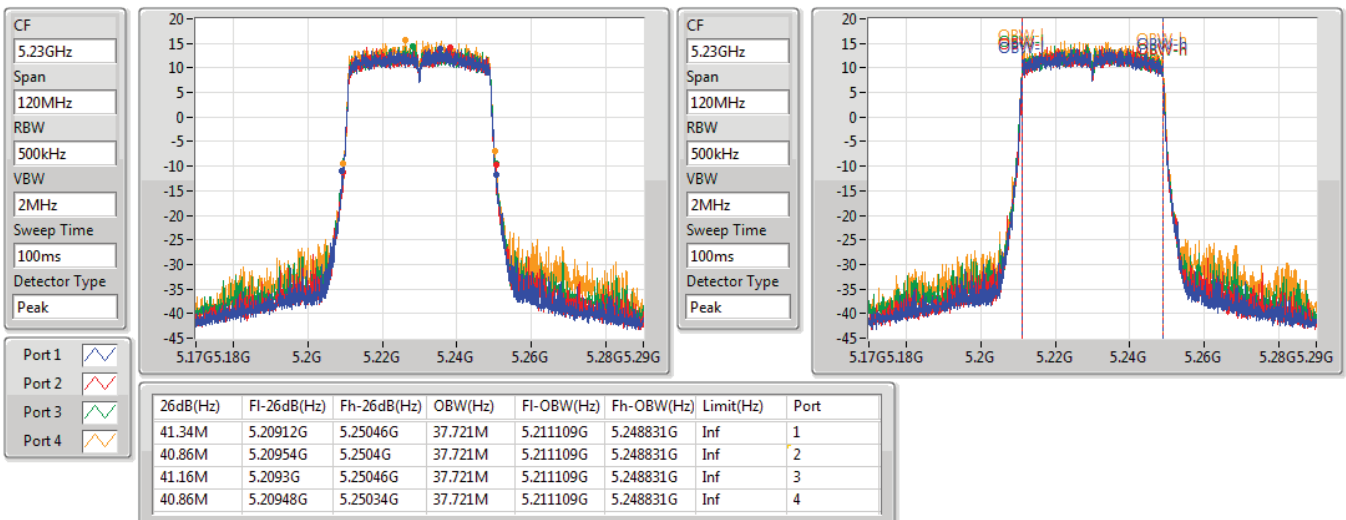


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

12/03/2020



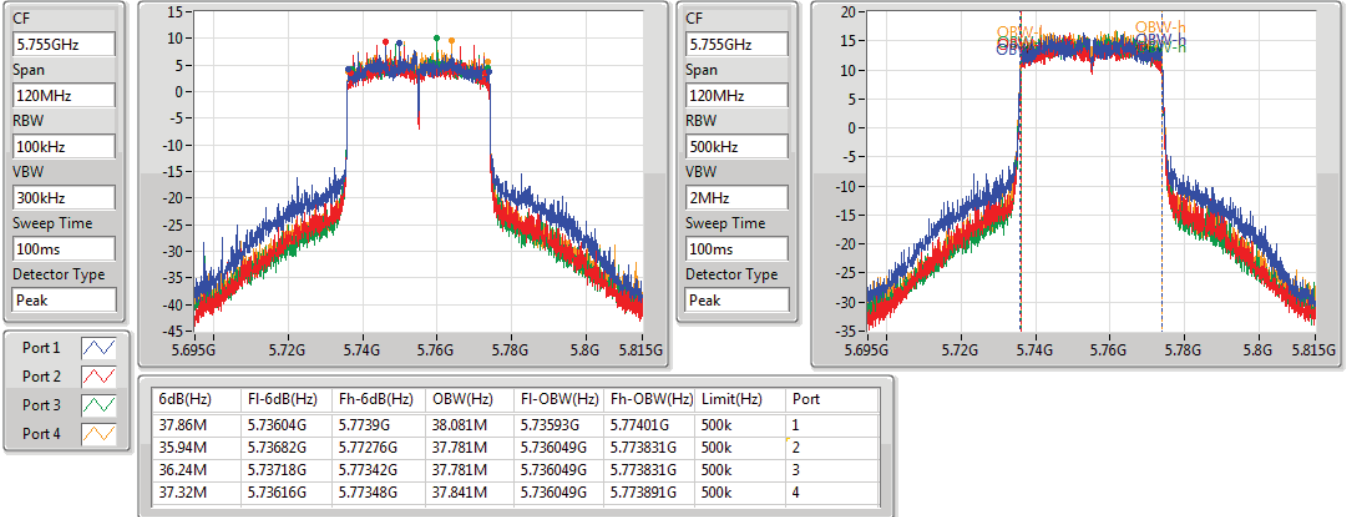


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

12/03/2020

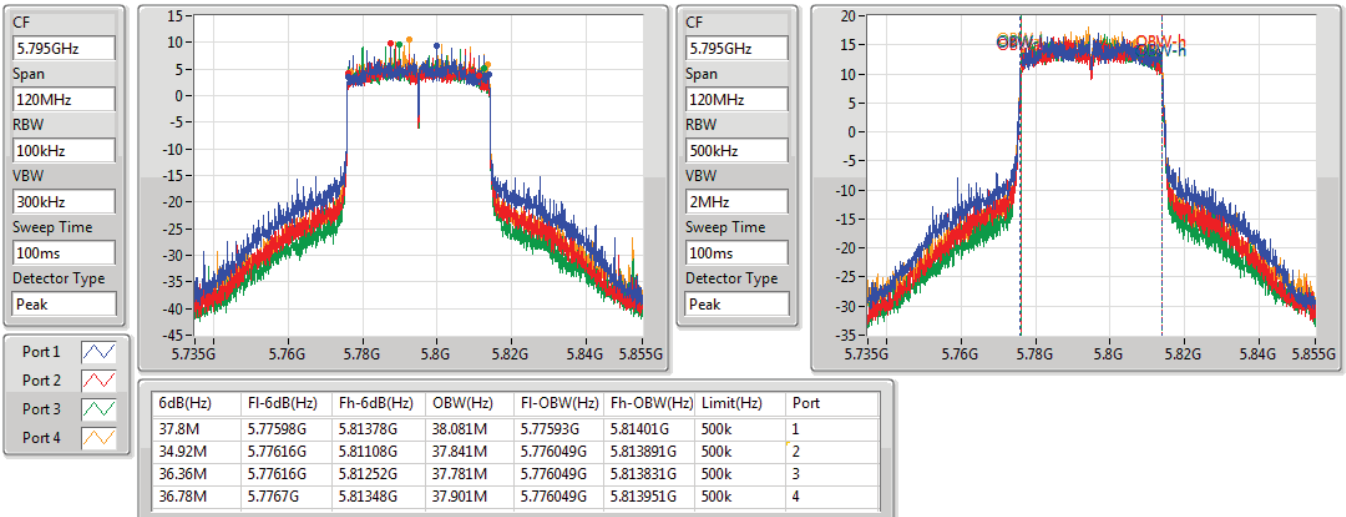


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

12/03/2020



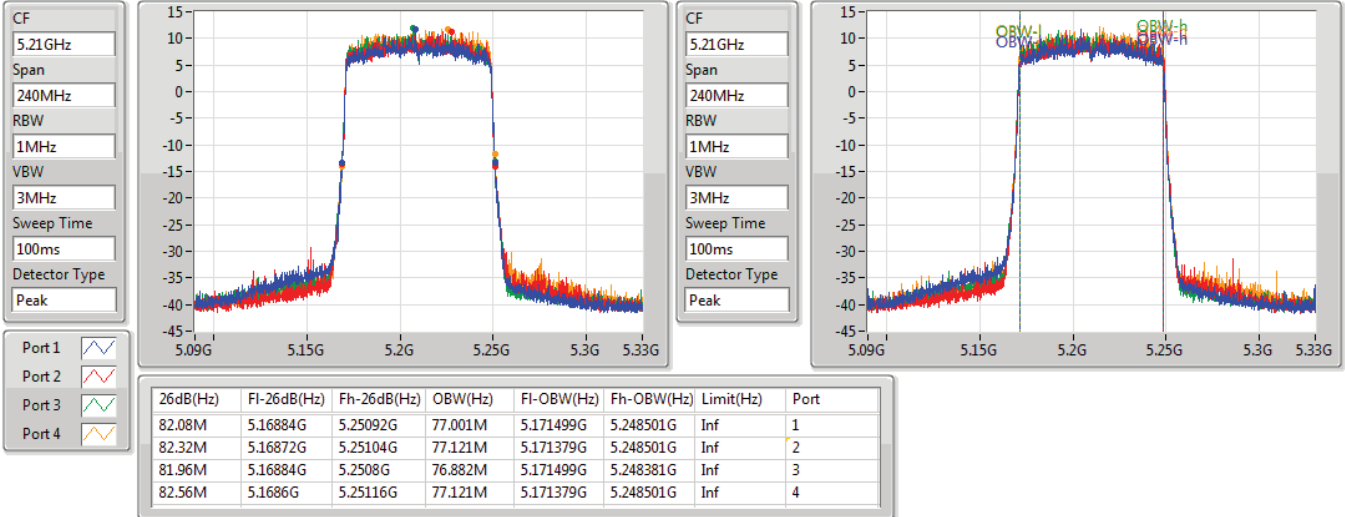


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

12/03/2020

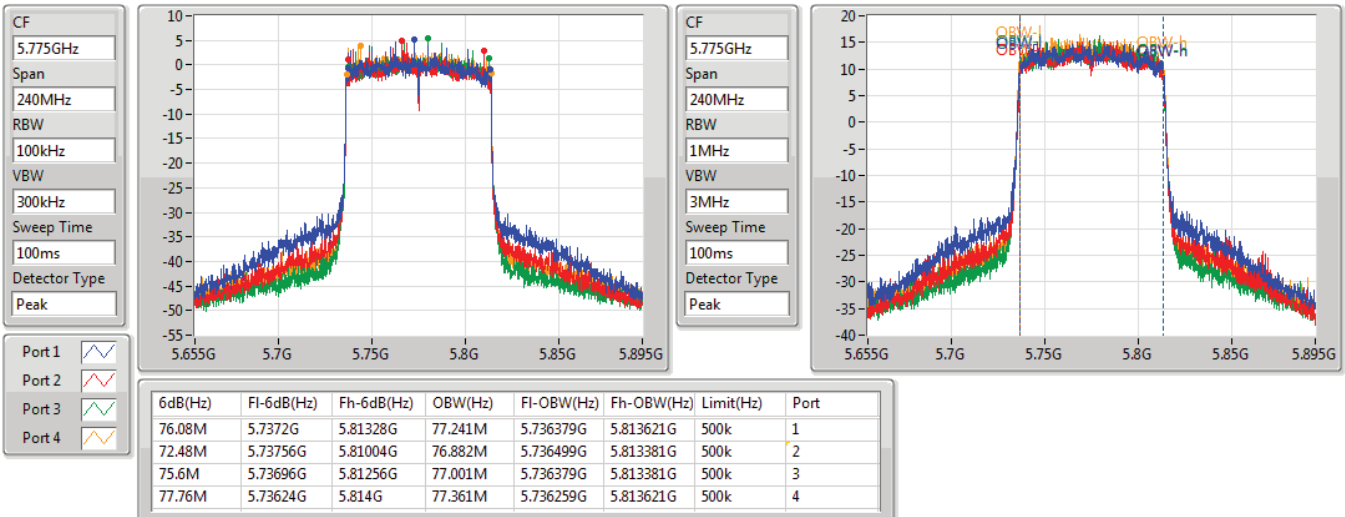


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

12/03/2020



**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	21.87M	16.612M	16M6D1D	21.36M	16.552M
802.11ac VHT20_Nss1,(MCS0)_2TX	22.17M	17.781M	17M8D1D	21.81M	17.721M
802.11ac VHT40_Nss1,(MCS0)_2TX	47.16M	36.642M	36M6D1D	44.88M	36.462M
802.11ac VHT80_Nss1,(MCS0)_2TX	91.08M	76.042M	76M0D1D	88.8M	76.042M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	25.067M	25M1D1D	15.63M	22.159M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.55M	26.477M	26M5D1D	16.56M	22.729M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.76M	56.912M	56M9D1D	35.28M	54.213M
802.11ac VHT80_Nss1,(MCS0)_2TX	72.96M	97.031M	97M0D1D	70.08M	87.556M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	16.582M	21.36M	16.552M
5200MHz	Pass	Inf	21.6M	16.552M	21.39M	16.552M
5240MHz	Pass	Inf	21.87M	16.612M	21.36M	16.582M
5745MHz	Pass	500k	16.26M	23.298M	16.02M	24.678M
5785MHz	Pass	500k	16.05M	23.838M	16.32M	24.078M
5825MHz	Pass	500k	16.26M	22.159M	15.63M	25.067M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.87M	17.781M	21.87M	17.751M
5200MHz	Pass	Inf	21.81M	17.781M	22.17M	17.781M
5240MHz	Pass	Inf	21.81M	17.721M	21.87M	17.751M
5745MHz	Pass	500k	17.55M	23.808M	17.52M	25.277M
5785MHz	Pass	500k	17.55M	24.768M	16.56M	24.798M
5825MHz	Pass	500k	17.55M	22.729M	16.77M	26.477M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	47.16M	36.582M	44.88M	36.462M
5230MHz	Pass	Inf	46.5M	36.642M	44.88M	36.462M
5755MHz	Pass	500k	35.7M	54.213M	35.28M	56.432M
5795MHz	Pass	500k	35.7M	55.172M	35.76M	56.912M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	88.8M	76.042M	91.08M	76.042M
5775MHz	Pass	500k	72.96M	87.556M	70.08M	97.031M

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

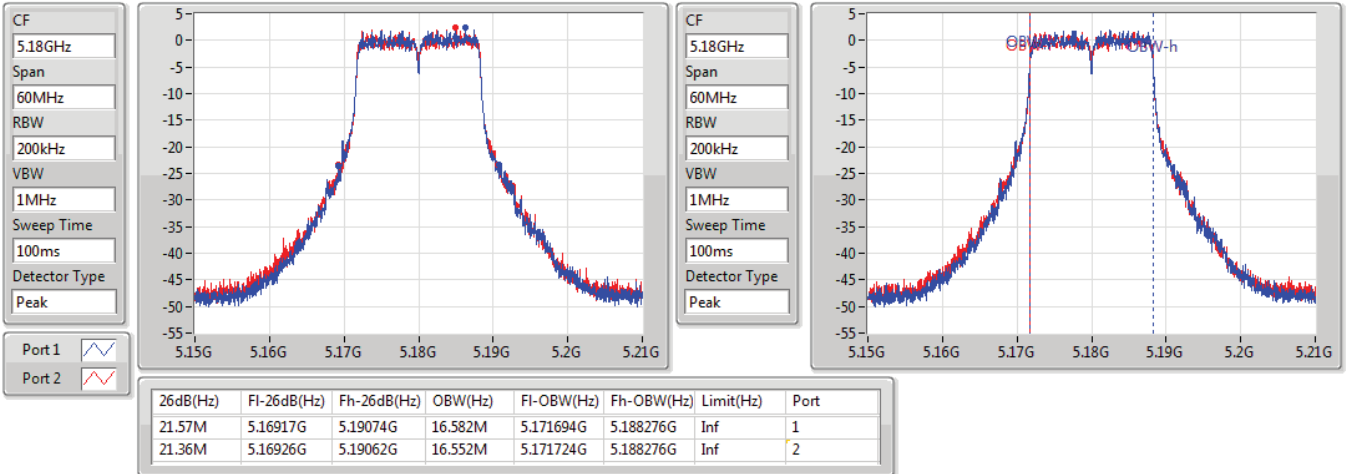
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

15/03/2020

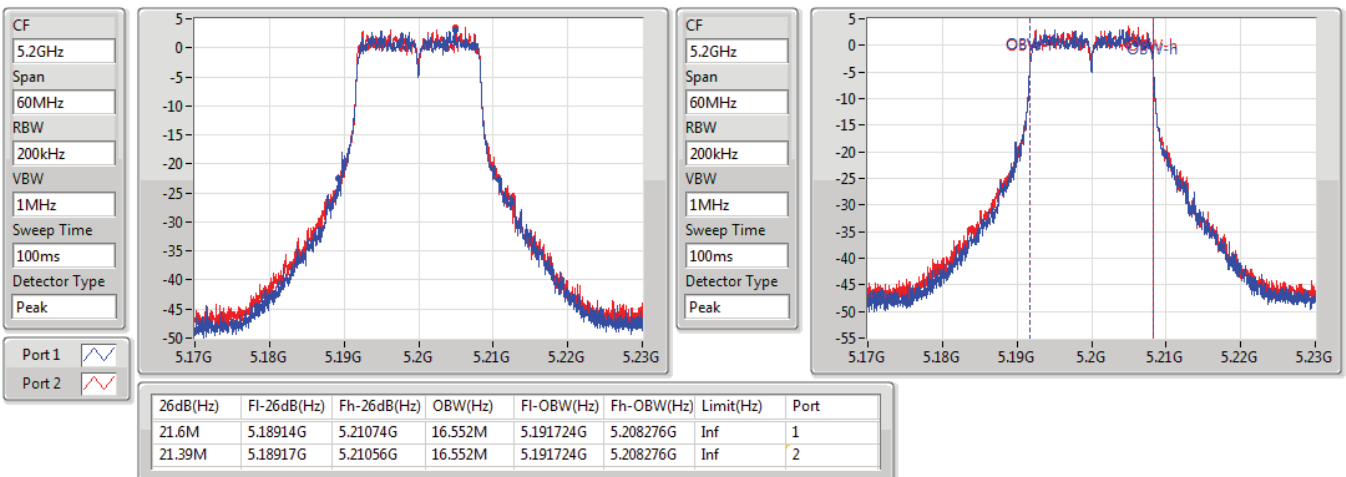


802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

15/03/2020

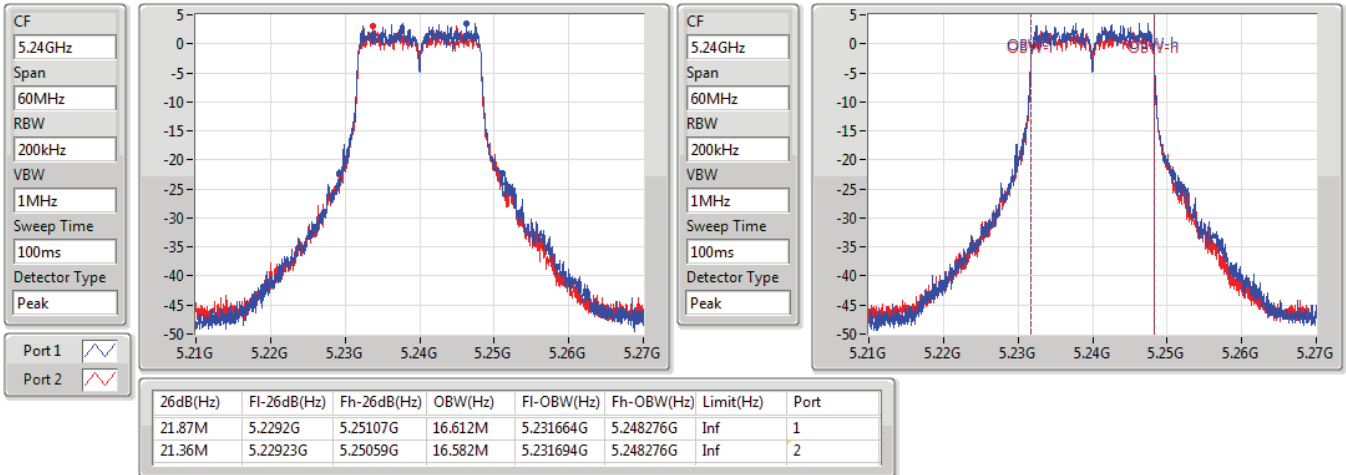


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

15/03/2020

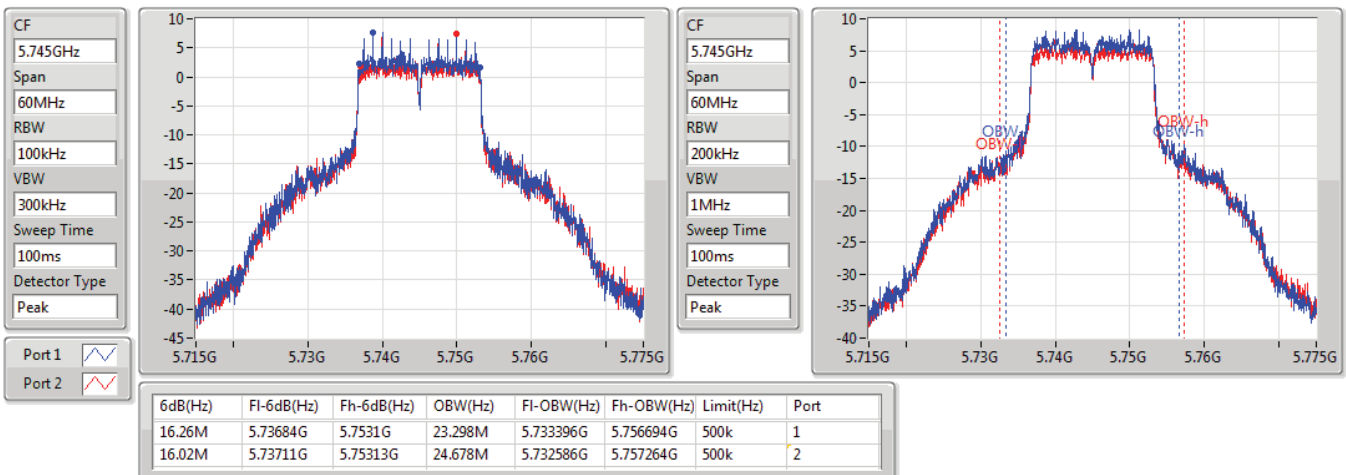


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

15/03/2020

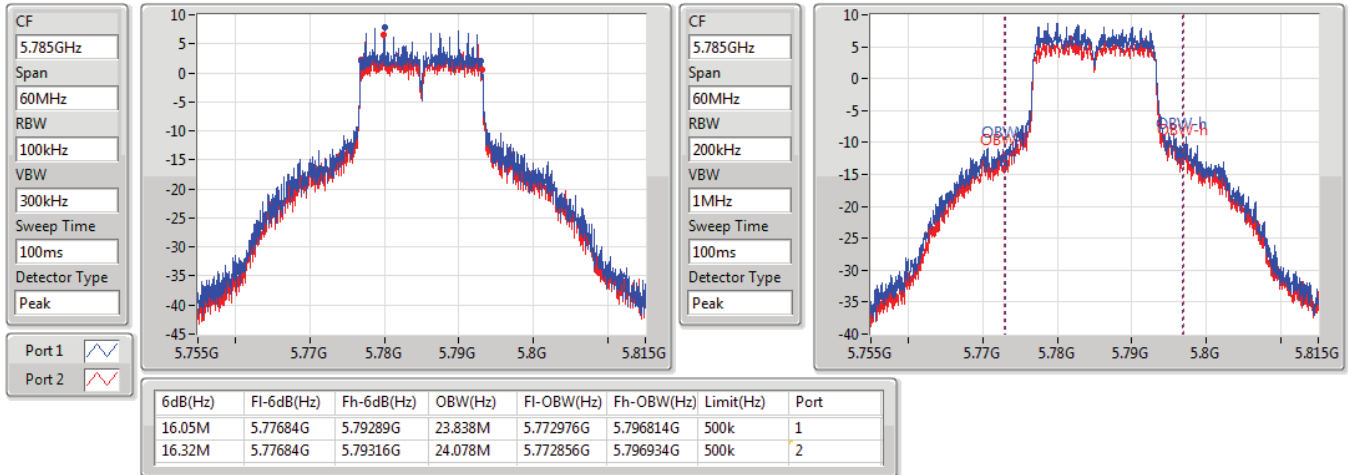


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

15/03/2020

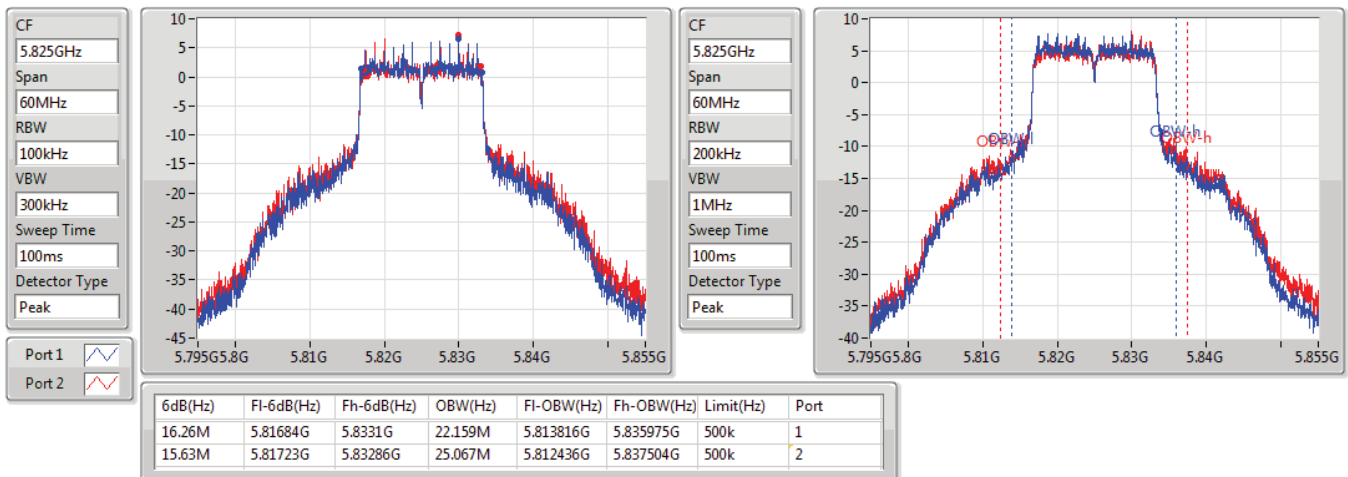


802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

15/03/2020

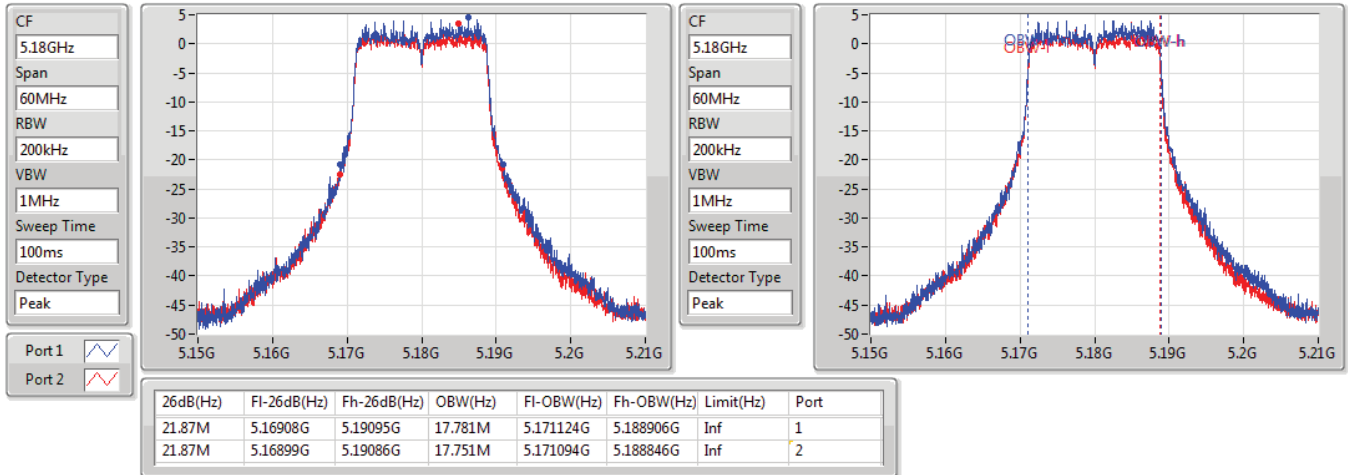


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

15/03/2020

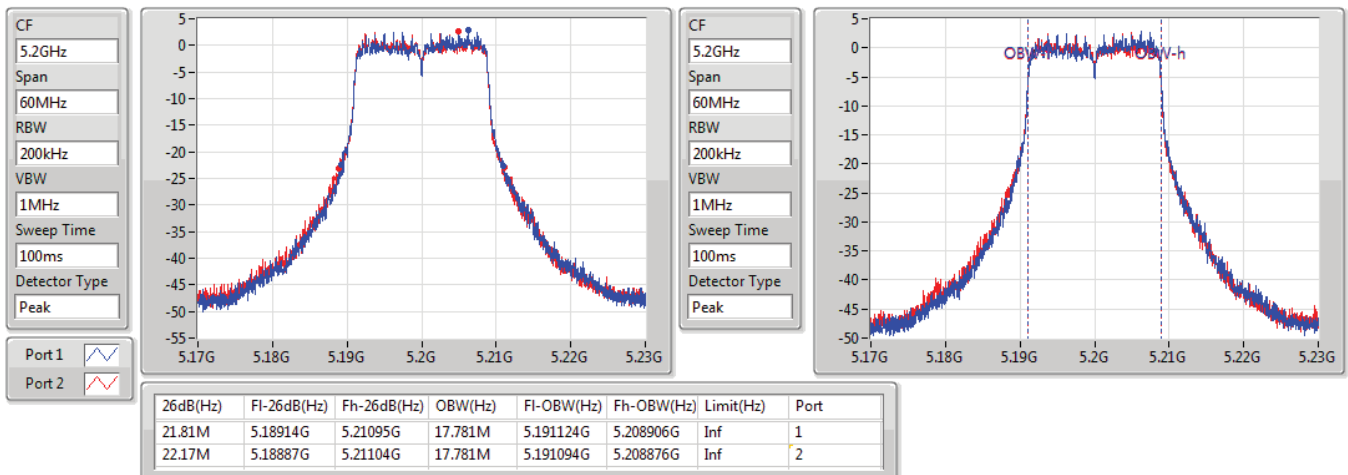


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

15/03/2020

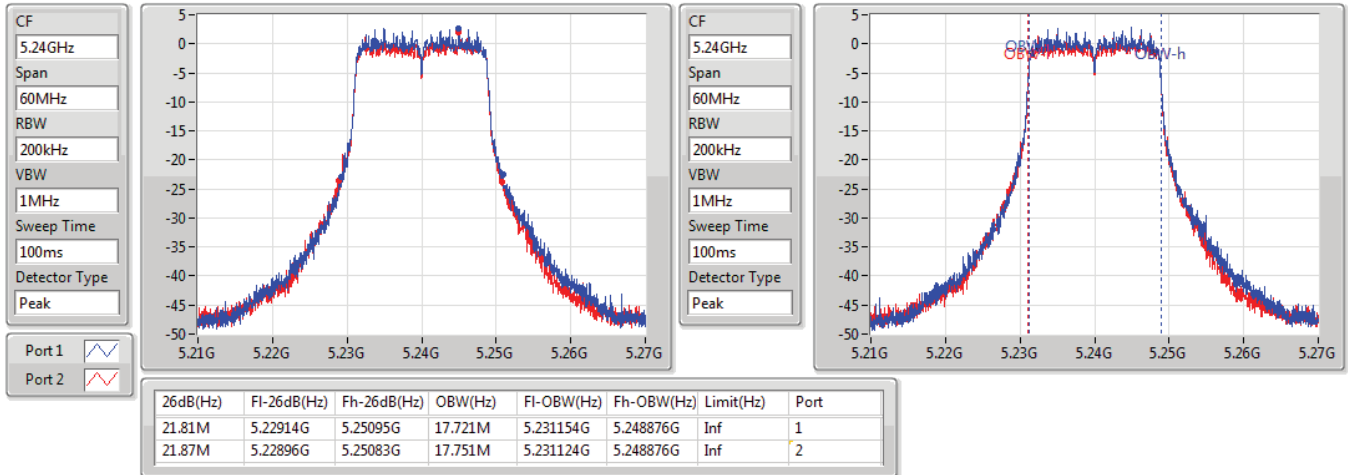


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

15/03/2020

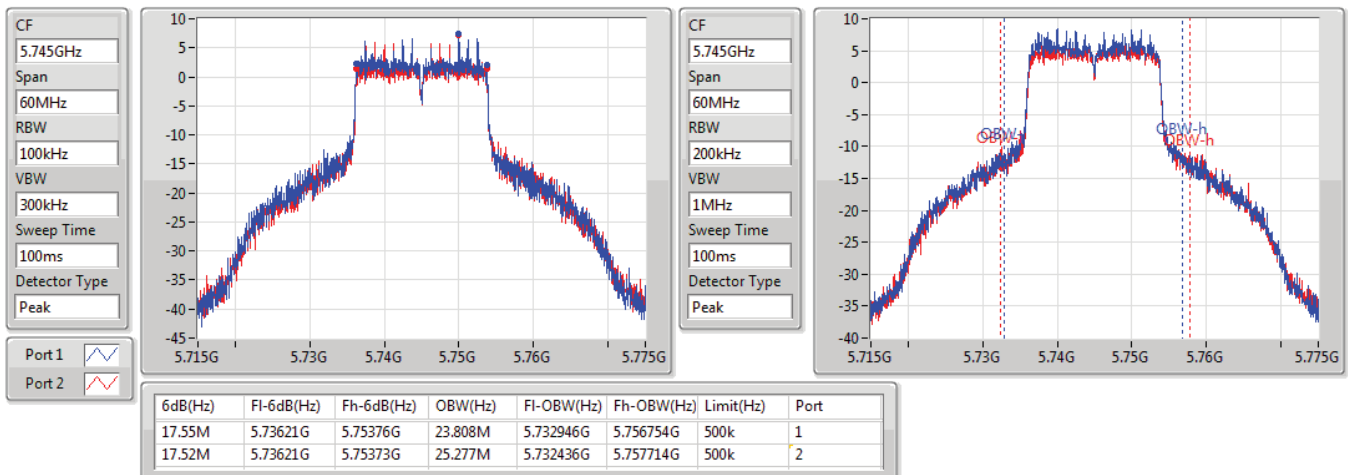


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

15/03/2020

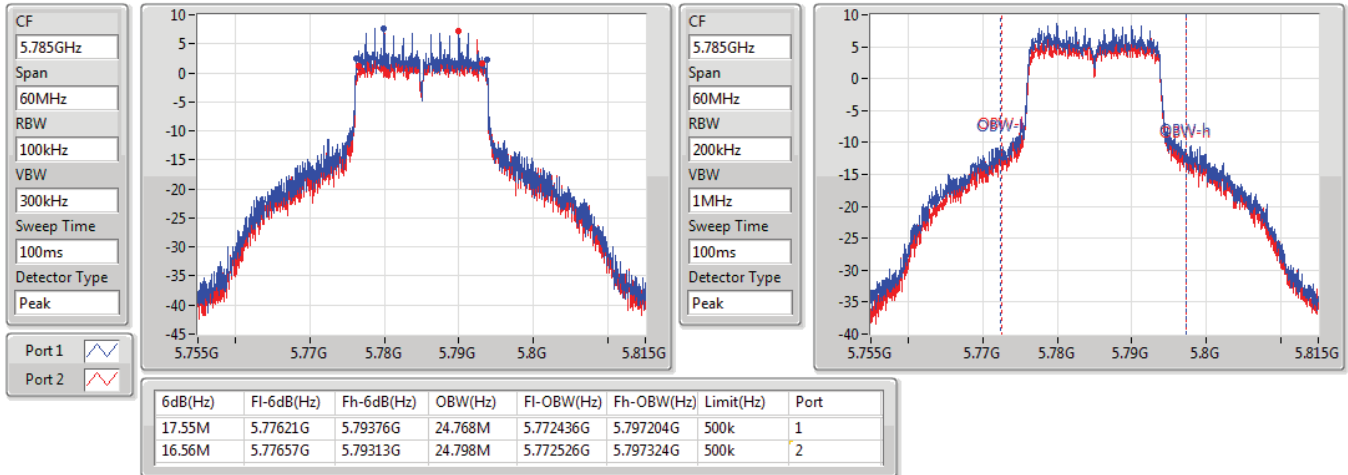


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

15/03/2020

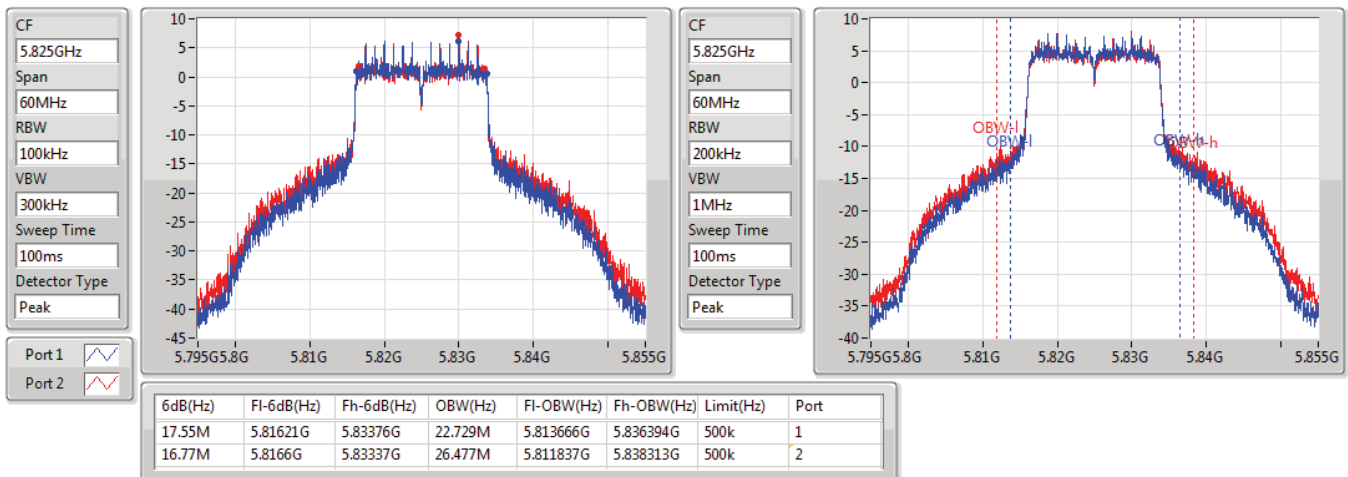


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

15/03/2020

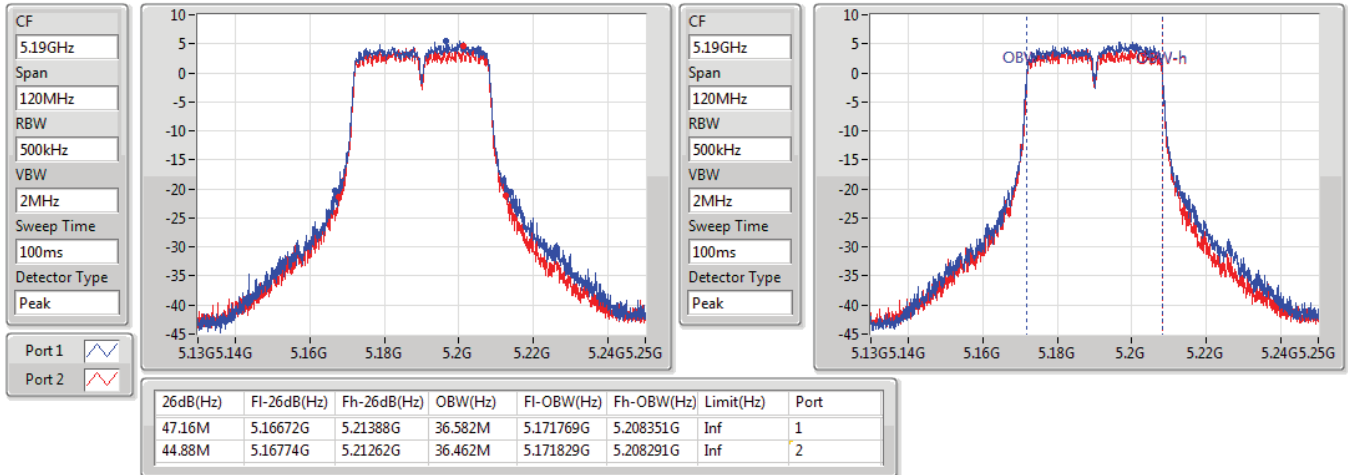


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

15/03/2020

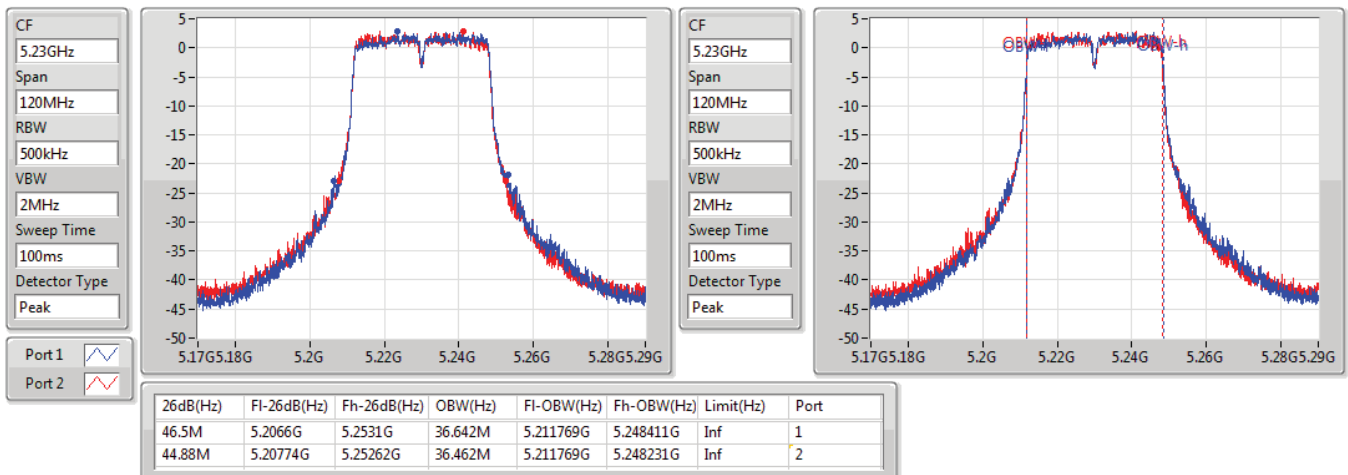


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

15/03/2020

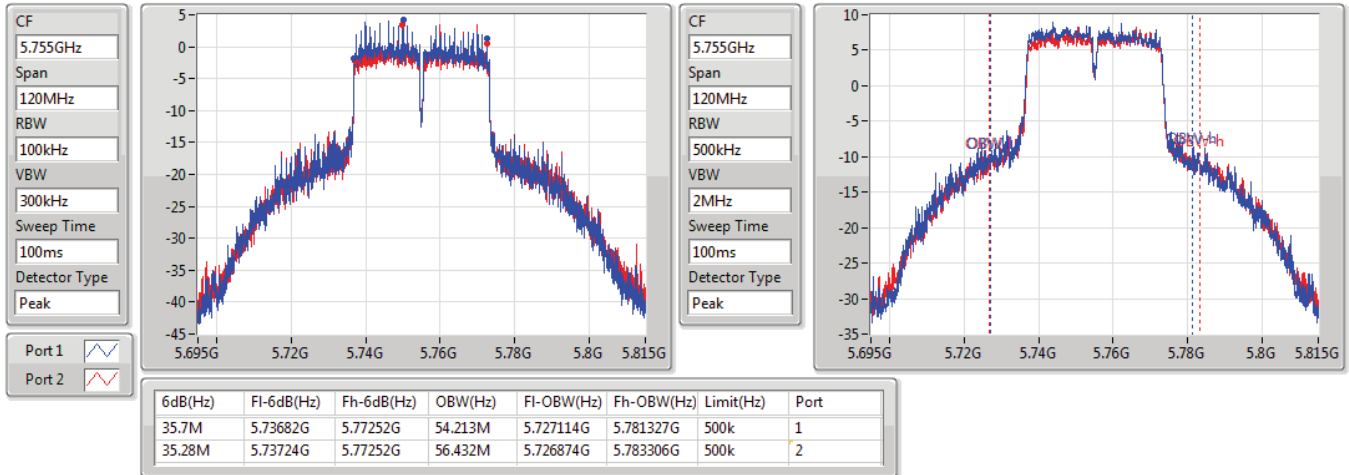


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

15/03/2020

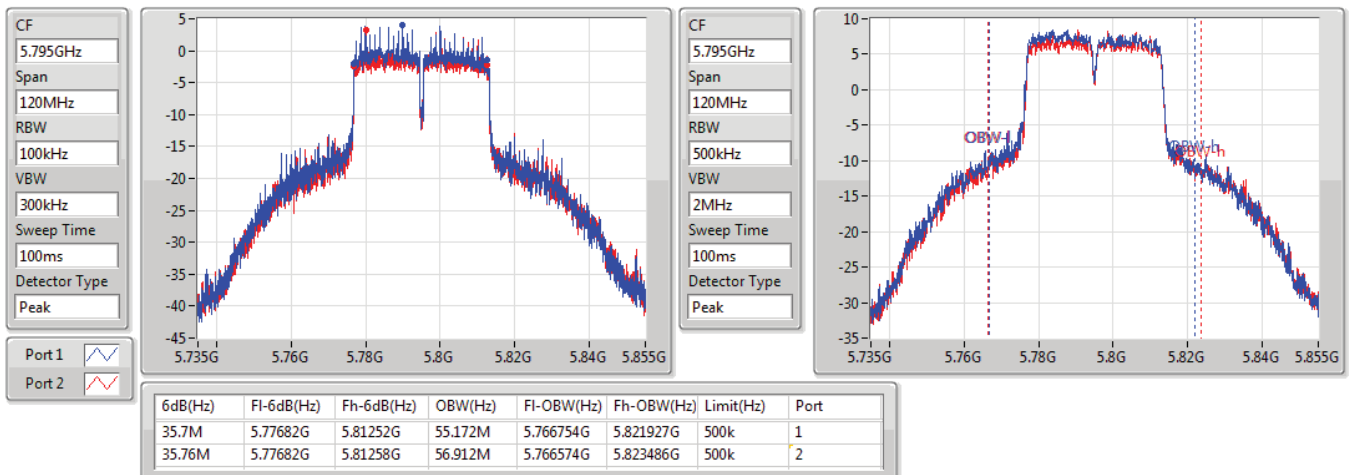


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

15/03/2020

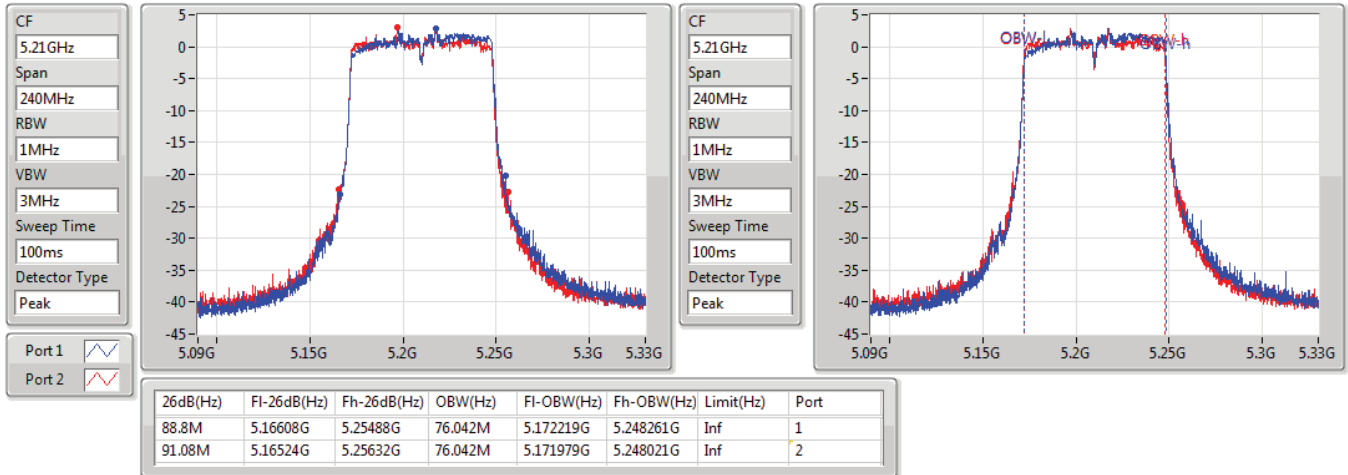


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

15/03/2020

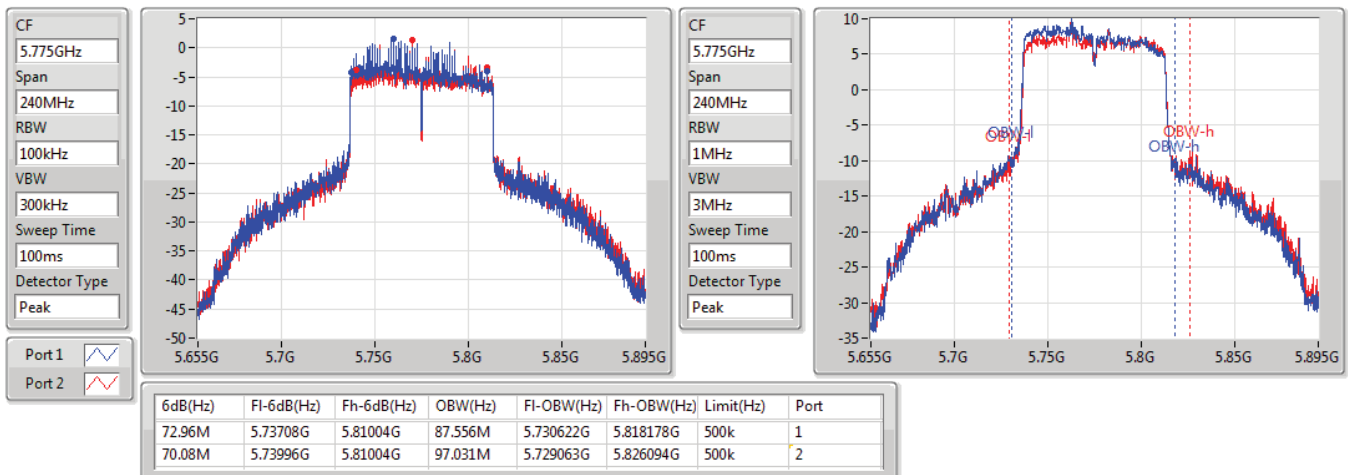


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

15/03/2020



**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	19.53M	16.408M	16M4D1D	19.26M	16.36M
802.11ac VHT20_Nss1,(MCS0)_4TX	20.97M	17.607M	17M6D1D	20.46M	17.559M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.68M	36.174M	36M2D1D	40.02M	36.03M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.32M	75.322M	75M3D1D	81.48M	75.322M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.75M	18.975M	19M0D1D	20.97M	18.855M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.46M	37.757M	37M8D1D	40.86M	37.709M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.92M	77.241M	77M2D1D	81.96M	77.001M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.29M	16.648M	16M6D1D	14.64M	16.432M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.1M	17.691M	17M7D1D	15.69M	17.571M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.3M	36.462M	36M5D1D	33.24M	36.162M
802.11ac VHT80_Nss1,(MCS0)_4TX	75.12M	75.322M	75M3D1D	68.88M	75.082M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.6M	19.07M	19M1D1D	16.08M	18.927M
802.11ax HEW40_Nss1,(MCS0)_4TX	38.04M	38.141M	38M1D1D	36.84M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	75.24M	77.361M	77M4D1D	73.44M	76.882M

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

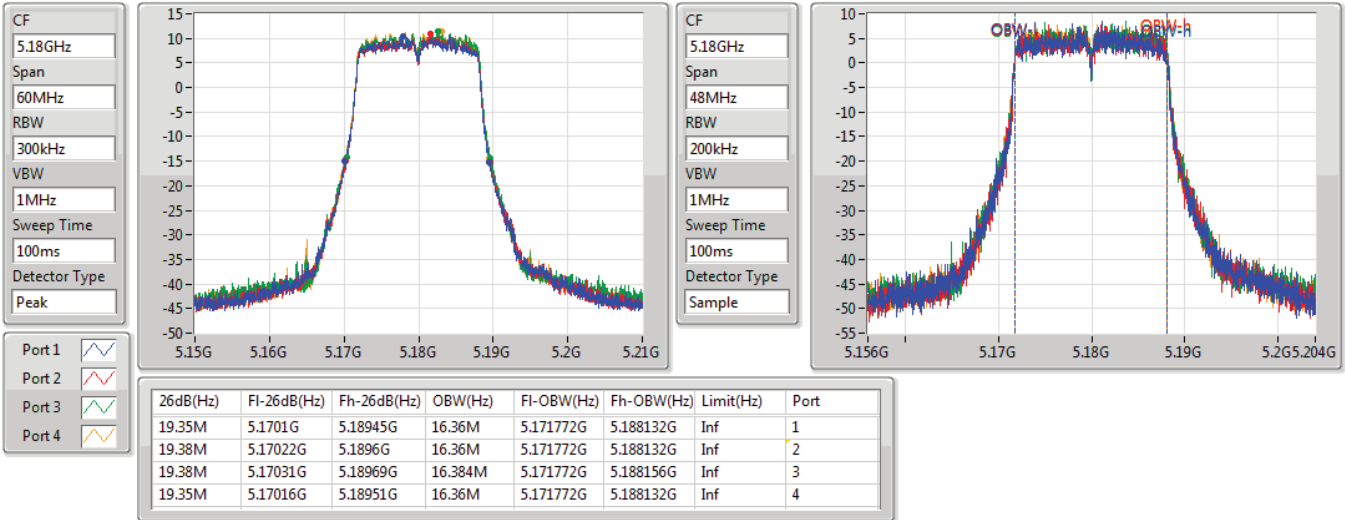
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.35M	16.36M	19.38M	16.36M	19.38M	16.384M	19.35M	16.36M
5200MHz	Pass	Inf	19.53M	16.384M	19.32M	16.36M	19.26M	16.408M	19.44M	16.36M
5240MHz	Pass	Inf	19.38M	16.384M	19.32M	16.36M	19.44M	16.384M	19.41M	16.36M
5745MHz	Pass	500k	15.3M	16.648M	15.27M	16.48M	16.26M	16.504M	15.78M	16.48M
5785MHz	Pass	500k	14.64M	16.462M	15.51M	16.462M	15.93M	16.432M	16.02M	16.462M
5825MHz	Pass	500k	16.29M	16.522M	15.72M	16.492M	16.29M	16.432M	16.02M	16.432M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.58M	17.583M	20.52M	17.607M	20.79M	17.559M	20.76M	17.559M
5200MHz	Pass	Inf	20.58M	17.607M	20.82M	17.583M	20.73M	17.583M	20.61M	17.583M
5240MHz	Pass	Inf	20.79M	17.583M	20.46M	17.607M	20.97M	17.607M	20.73M	17.583M
5745MHz	Pass	500k	16.5M	17.691M	15.93M	17.601M	16.32M	17.631M	16.92M	17.601M
5785MHz	Pass	500k	15.87M	17.691M	15.96M	17.601M	16.38M	17.601M	17.1M	17.601M
5825MHz	Pass	500k	16.02M	17.661M	15.69M	17.571M	16.89M	17.601M	16.74M	17.601M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.56M	36.162M	40.2M	36.102M	40.26M	36.162M	40.08M	36.102M
5230MHz	Pass	Inf	40.68M	36.078M	40.02M	36.03M	40.32M	36.126M	40.08M	36.174M
5755MHz	Pass	500k	35.64M	36.462M	34.44M	36.162M	35.4M	36.282M	36.3M	36.282M
5795MHz	Pass	500k	35.34M	36.342M	33.24M	36.162M	33.78M	36.222M	36.24M	36.222M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.84M	75.322M	81.48M	75.322M	82.32M	75.322M	81.6M	75.322M
5775MHz	Pass	500k	68.88M	75.322M	75.12M	75.082M	70.92M	75.322M	72.6M	75.322M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.3M	18.855M	21.21M	18.975M	21.15M	18.855M	21.36M	18.879M
5200MHz	Pass	Inf	21.75M	18.951M	21.36M	18.903M	20.97M	18.927M	21.15M	18.903M
5240MHz	Pass	Inf	21.54M	18.903M	21.24M	18.927M	21.15M	18.903M	21.3M	18.879M
5745MHz	Pass	500k	17.28M	19.07M	17.46M	18.999M	17.88M	19.022M	18.6M	18.975M
5785MHz	Pass	500k	16.08M	19.022M	18M	19.046M	16.56M	18.927M	18.42M	19.022M
5825MHz	Pass	500k	16.89M	18.999M	18M	18.975M	17.7M	18.927M	18.33M	18.951M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.4M	37.709M	40.86M	37.757M	40.86M	37.709M	40.86M	37.709M
5230MHz	Pass	Inf	40.92M	37.709M	40.98M	37.709M	41.04M	37.757M	41.46M	37.757M
5755MHz	Pass	500k	36.9M	38.141M	37.38M	38.021M	38.04M	37.901M	37.32M	37.901M
5795MHz	Pass	500k	37.8M	37.961M	36.96M	37.781M	36.84M	37.781M	37.68M	37.901M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.96M	77.241M	82.2M	77.241M	82.92M	77.001M	82.68M	77.121M
5775MHz	Pass	500k	74.04M	77.121M	73.44M	76.882M	75.24M	77.001M	75M	77.361M

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

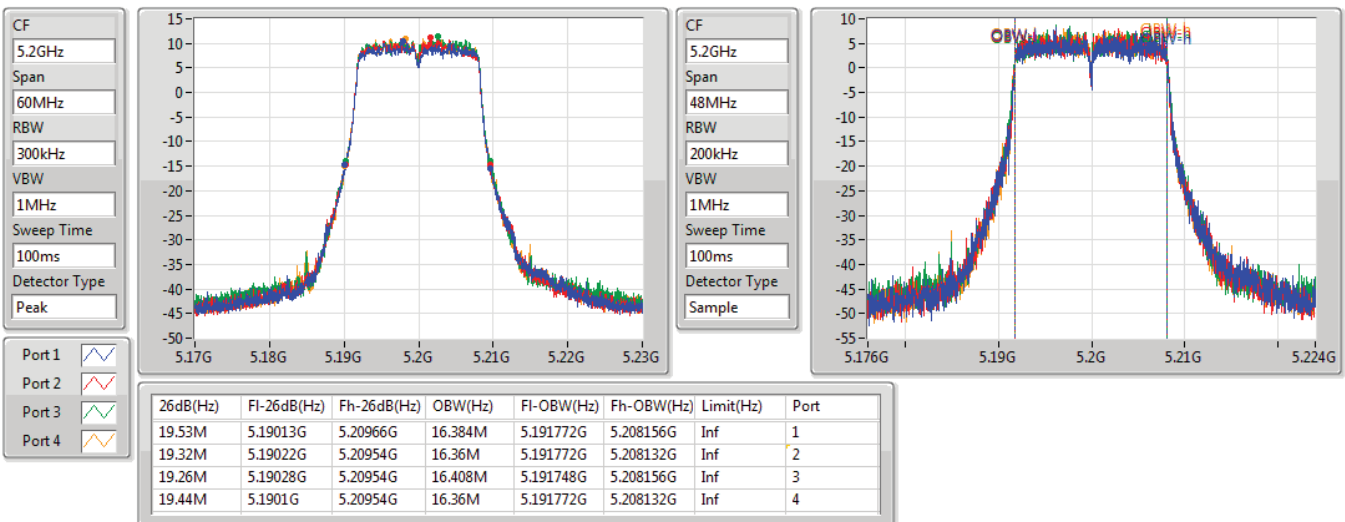
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX
EBW
5180MHz

31/03/2020


802.11a_Nss1,(6Mbps)_4TX
EBW
5200MHz

31/03/2020

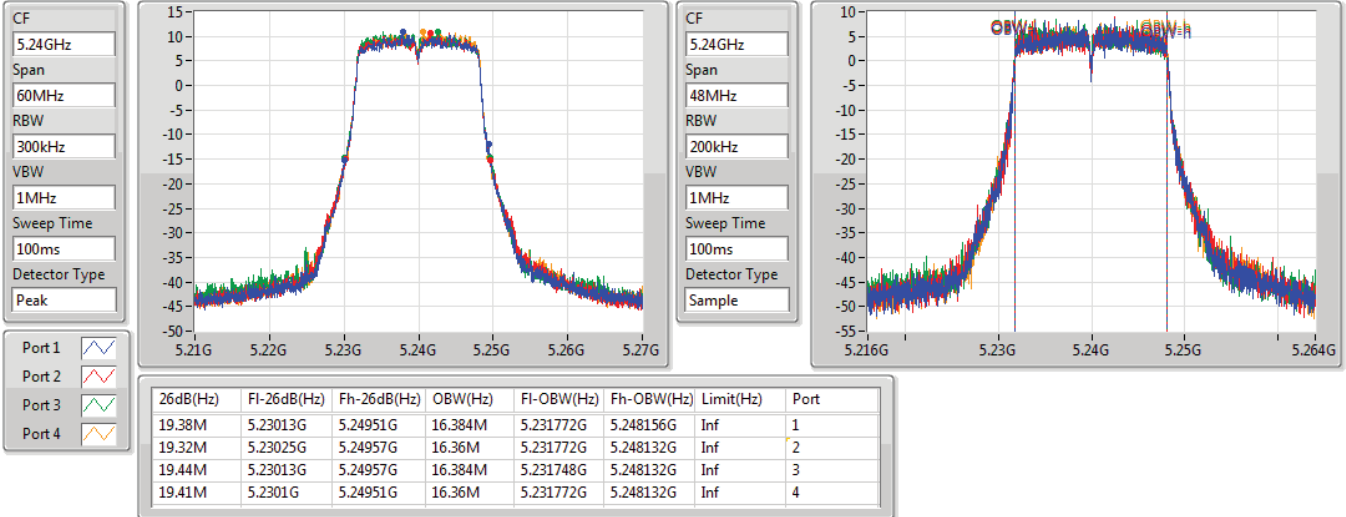


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

31/03/2020

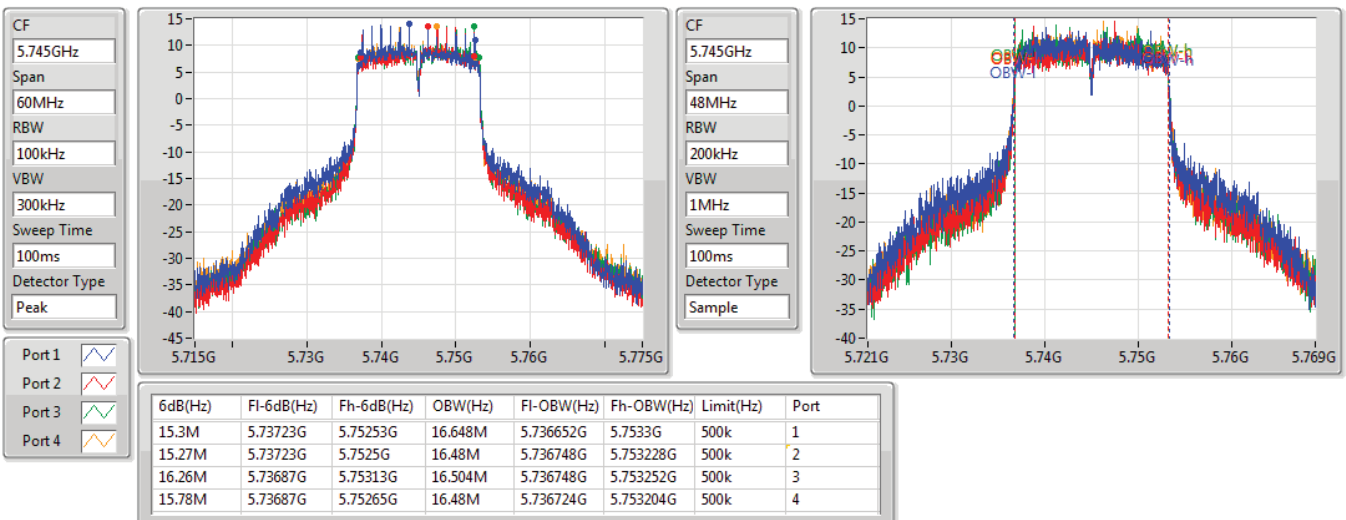


802.11a_Nss1,(6Mbps)_4TX

EBW

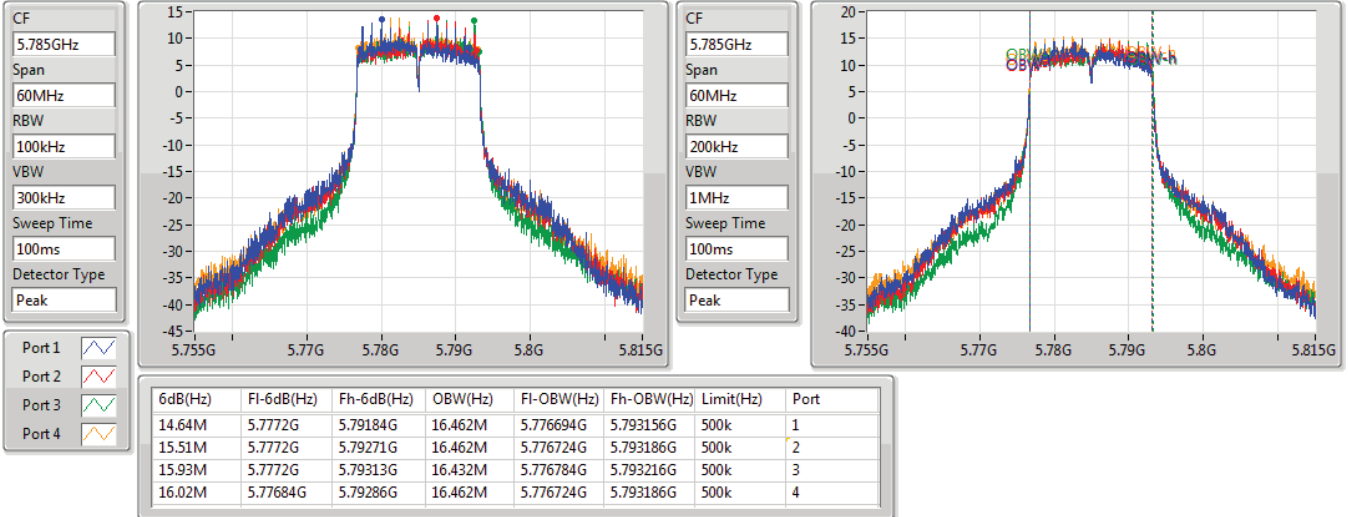
5745MHz

31/03/2020

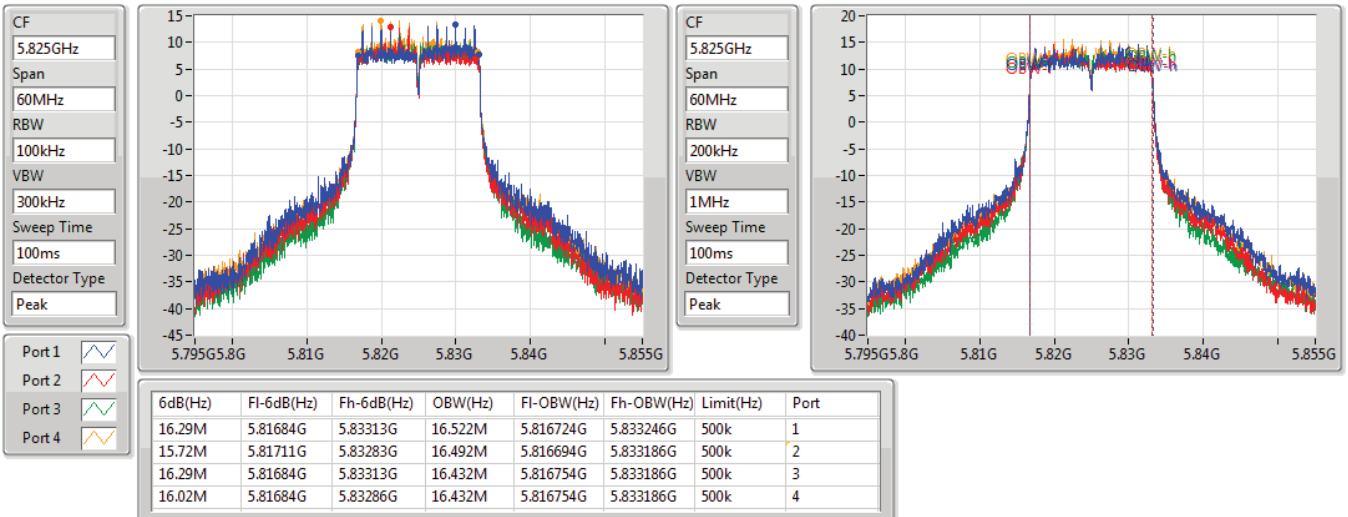


802.11a_Nss1,(6Mbps)_4TX
EBW
5785MHz

10/03/2020


802.11a_Nss1,(6Mbps)_4TX
EBW
5825MHz

10/03/2020

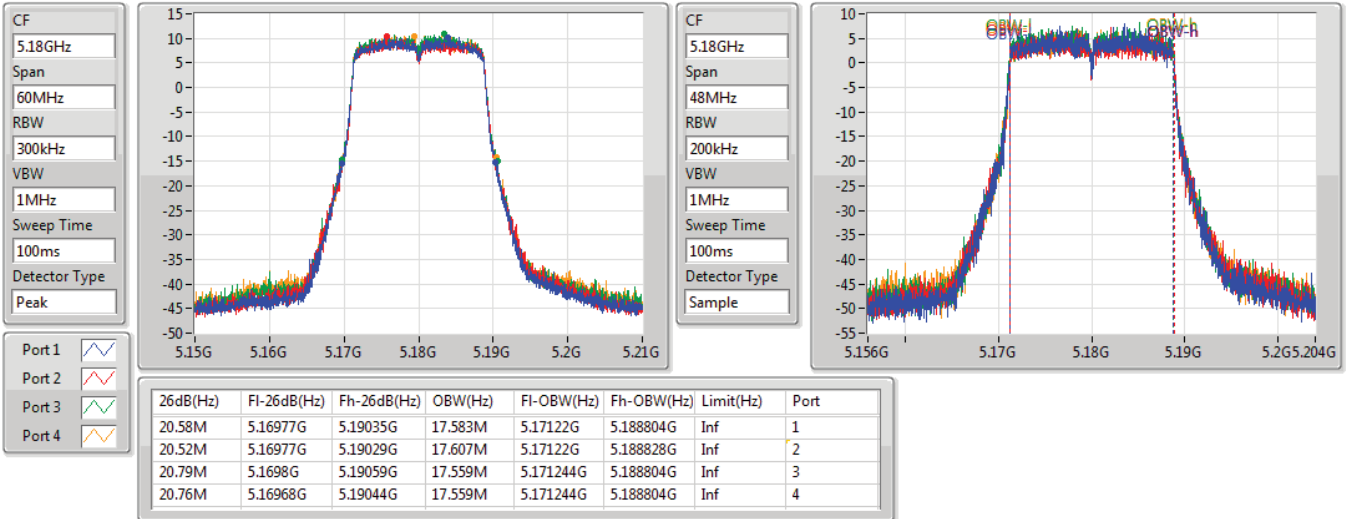


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

31/03/2020

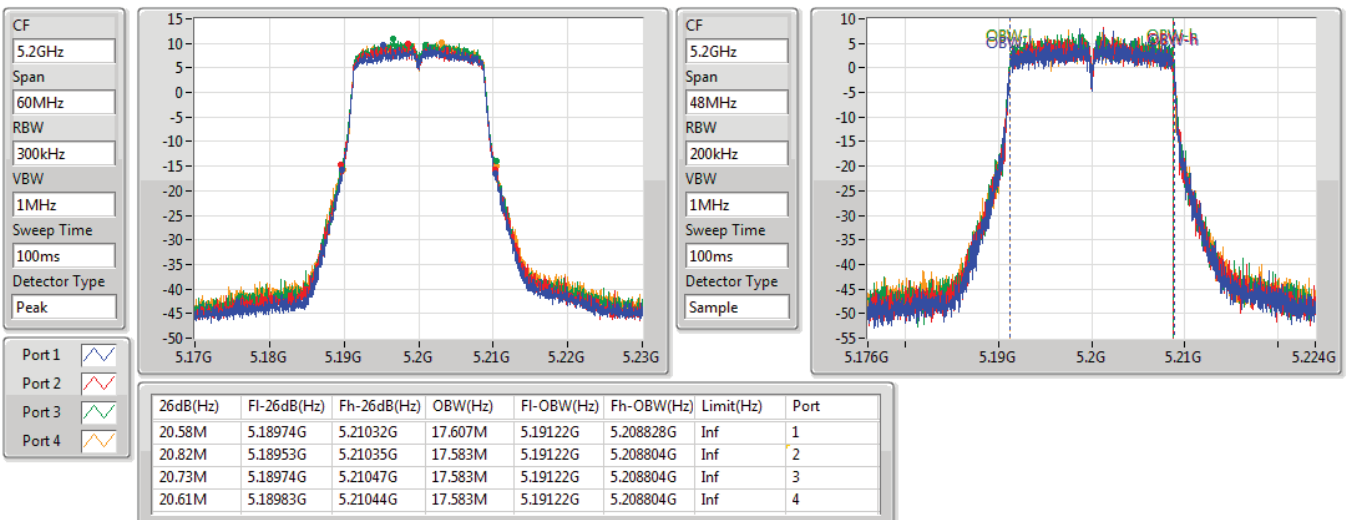


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

31/03/2020

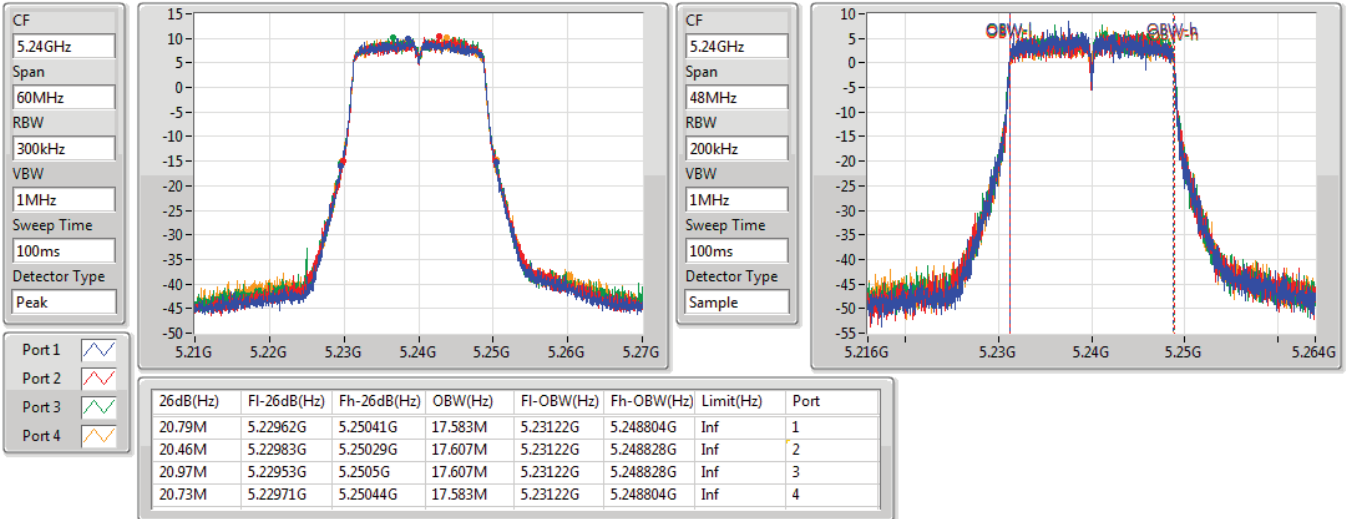


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5240MHz

31/03/2020

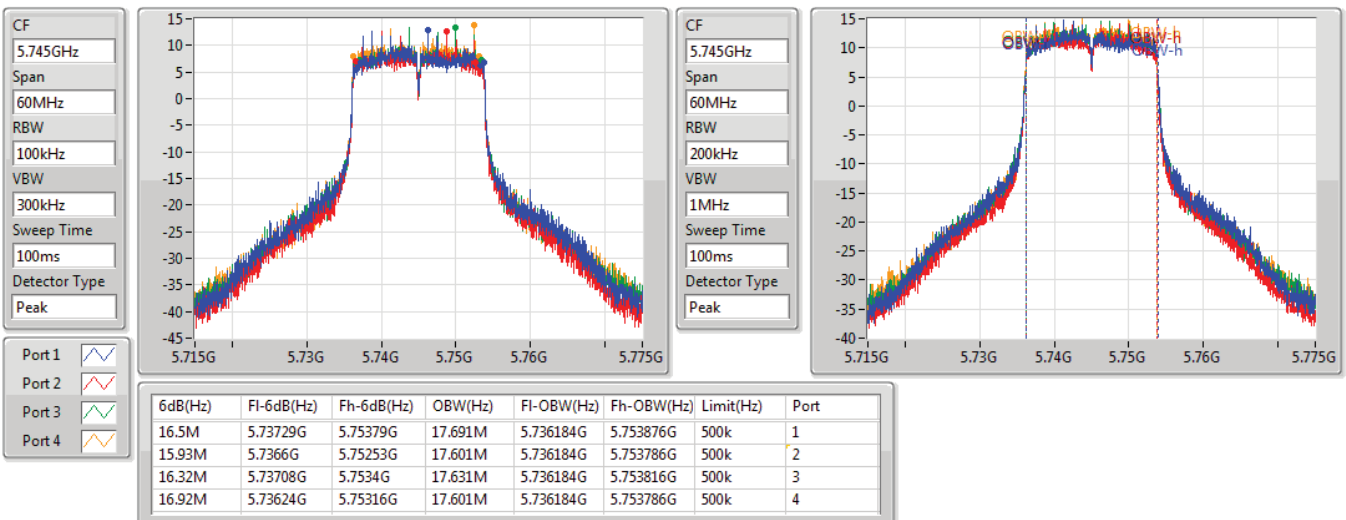


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

10/03/2020



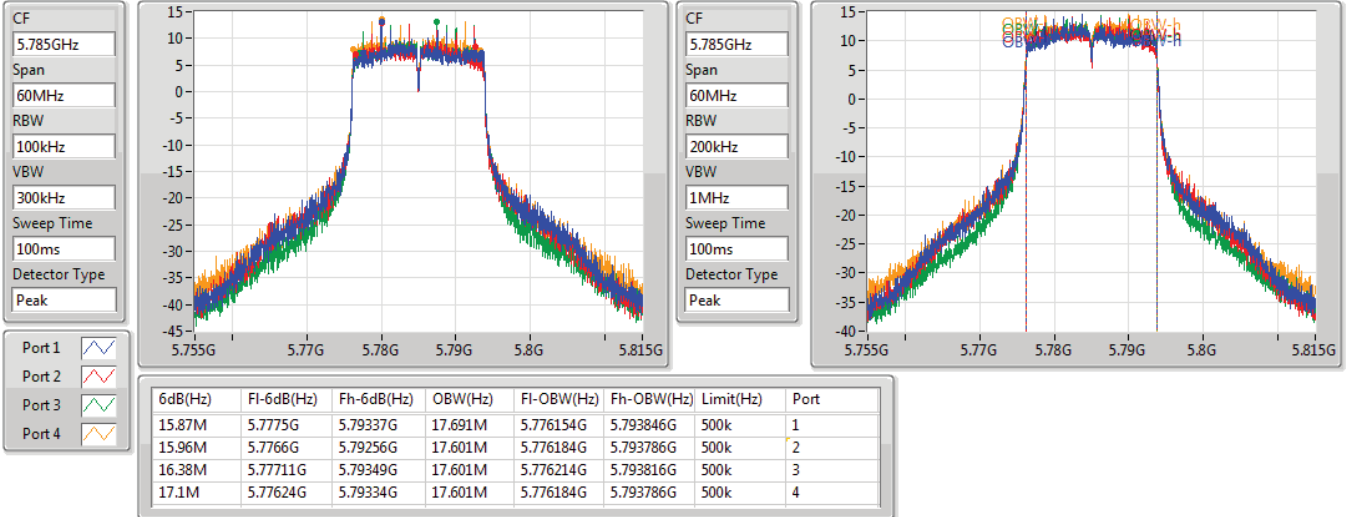


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5785MHz

10/03/2020

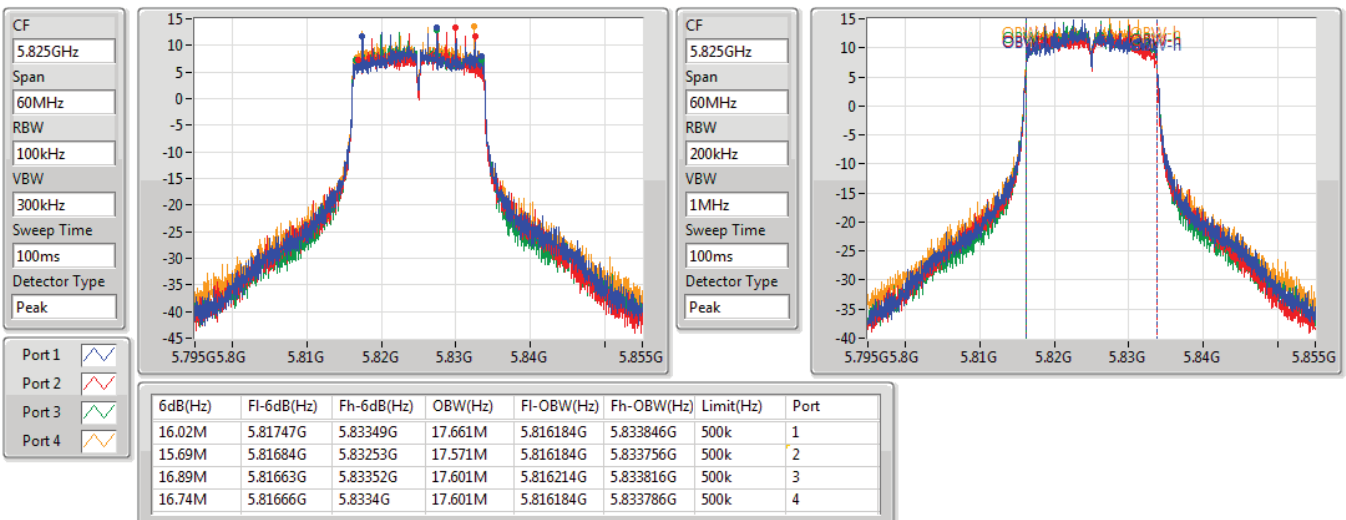


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5825MHz

10/03/2020

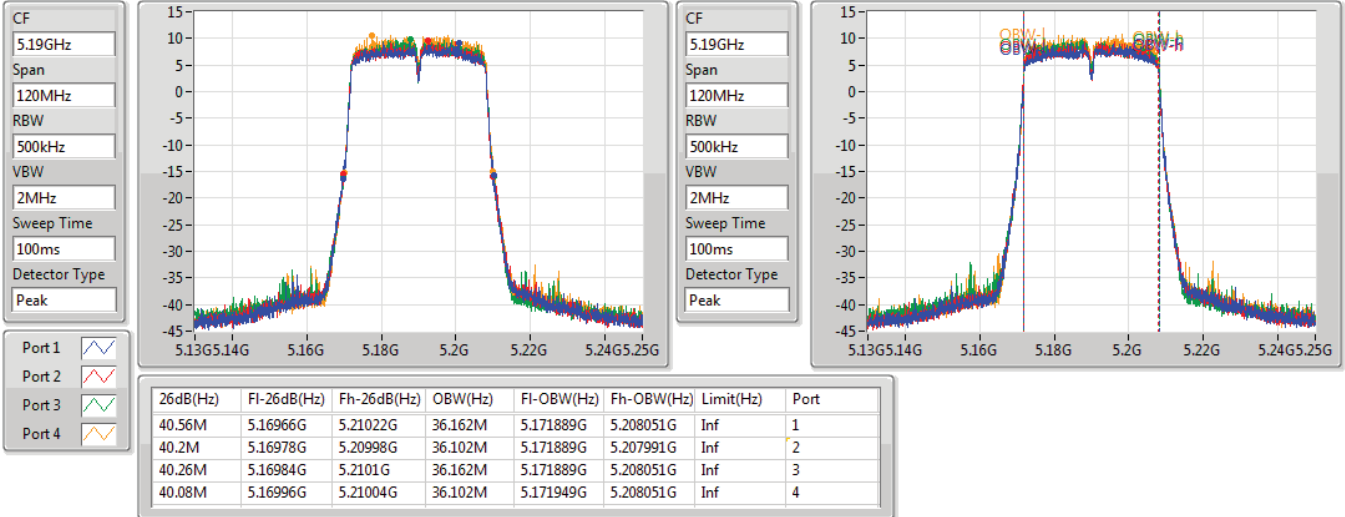


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5190MHz

13/03/2020

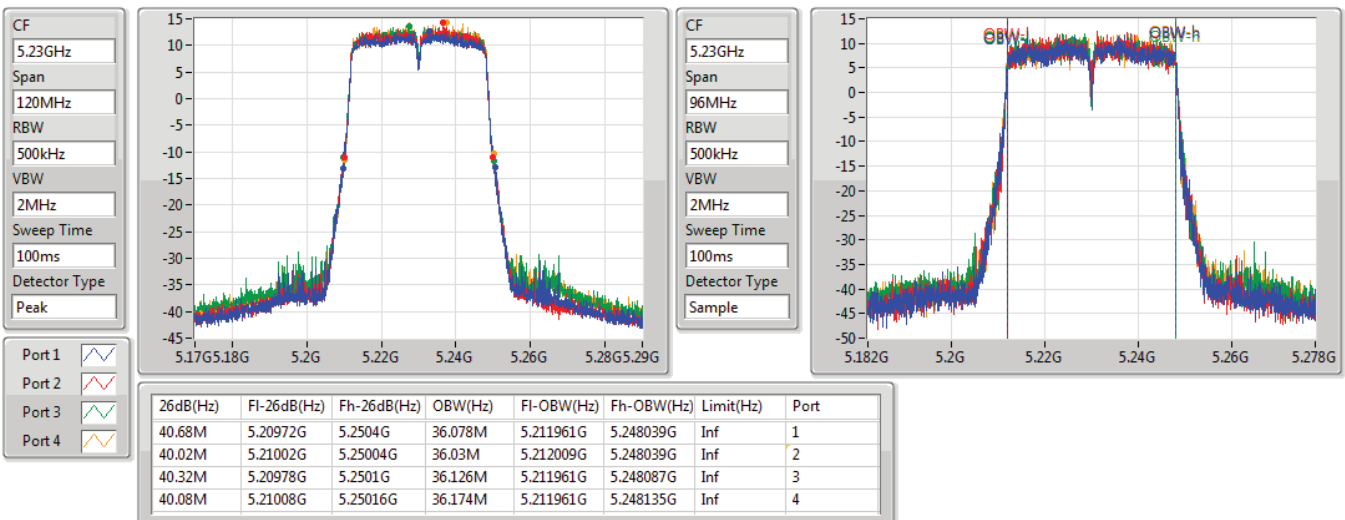


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5230MHz

31/03/2020

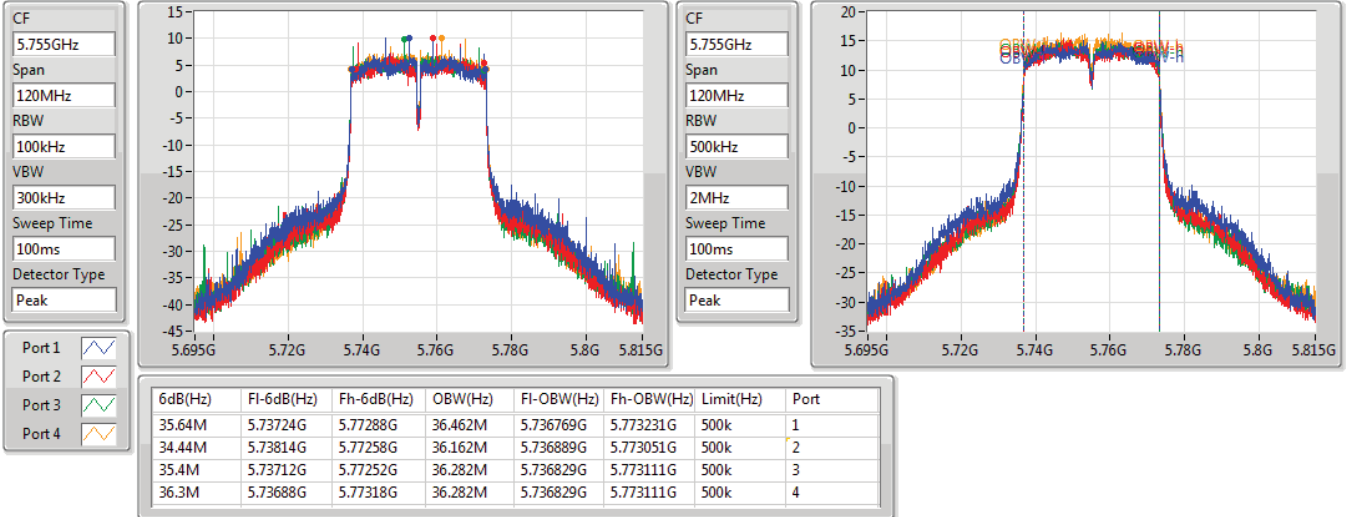


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5755MHz

10/03/2020

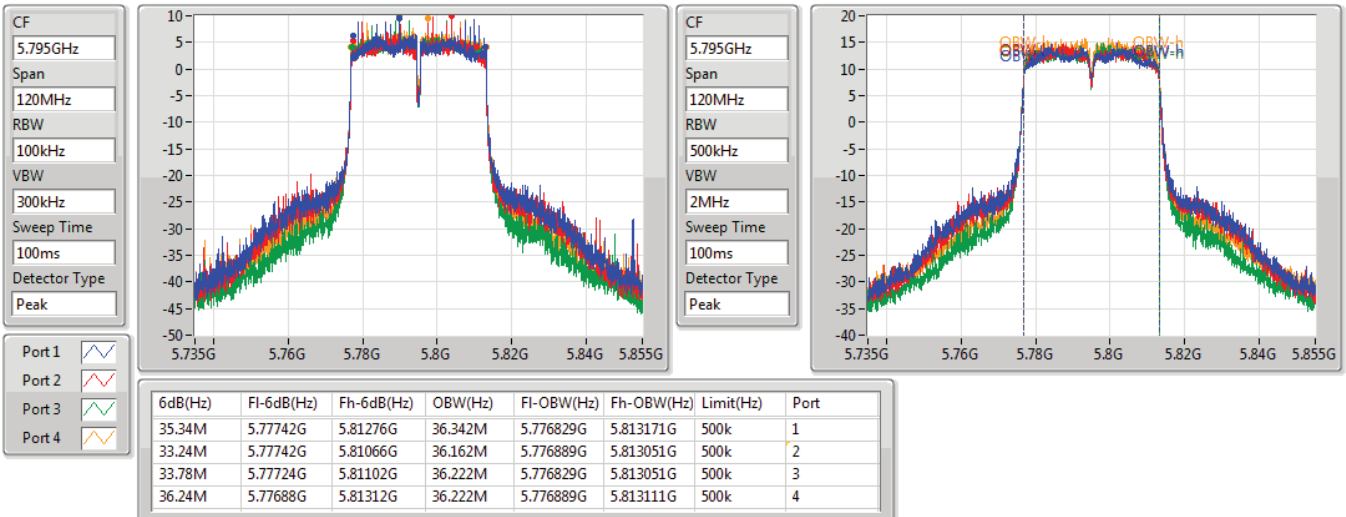


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

10/03/2020

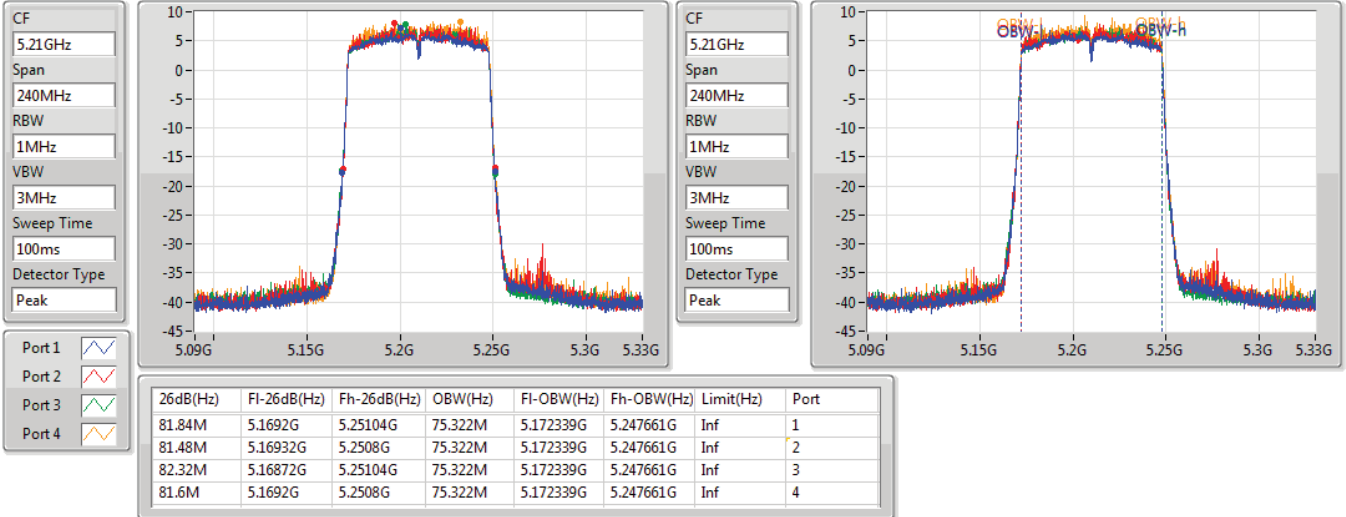


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5210MHz

10/03/2020

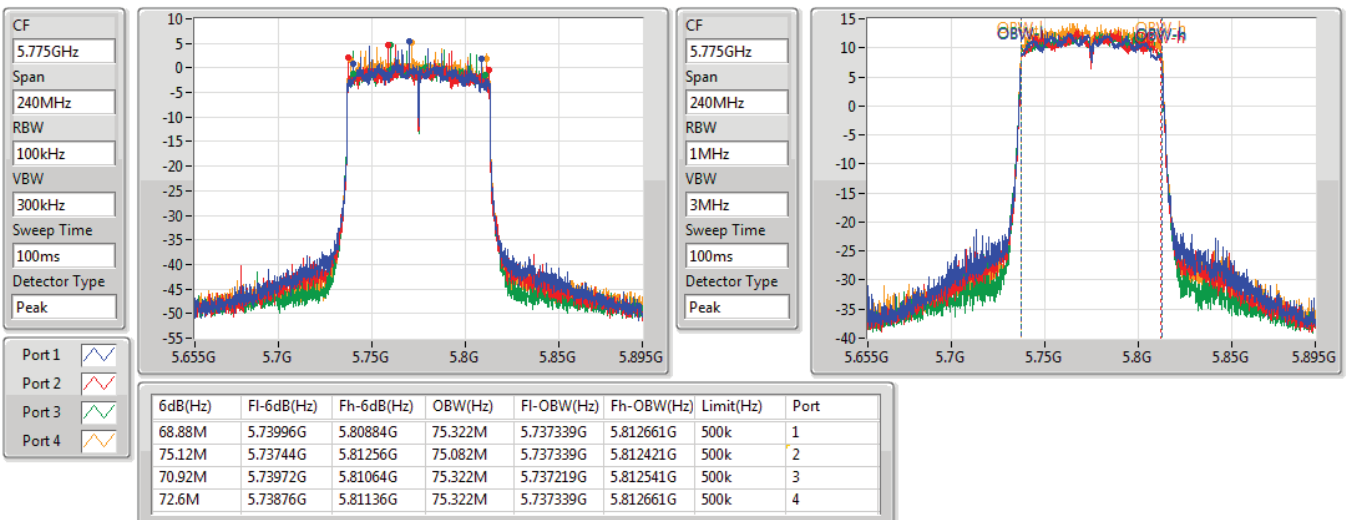


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5775MHz

10/03/2020

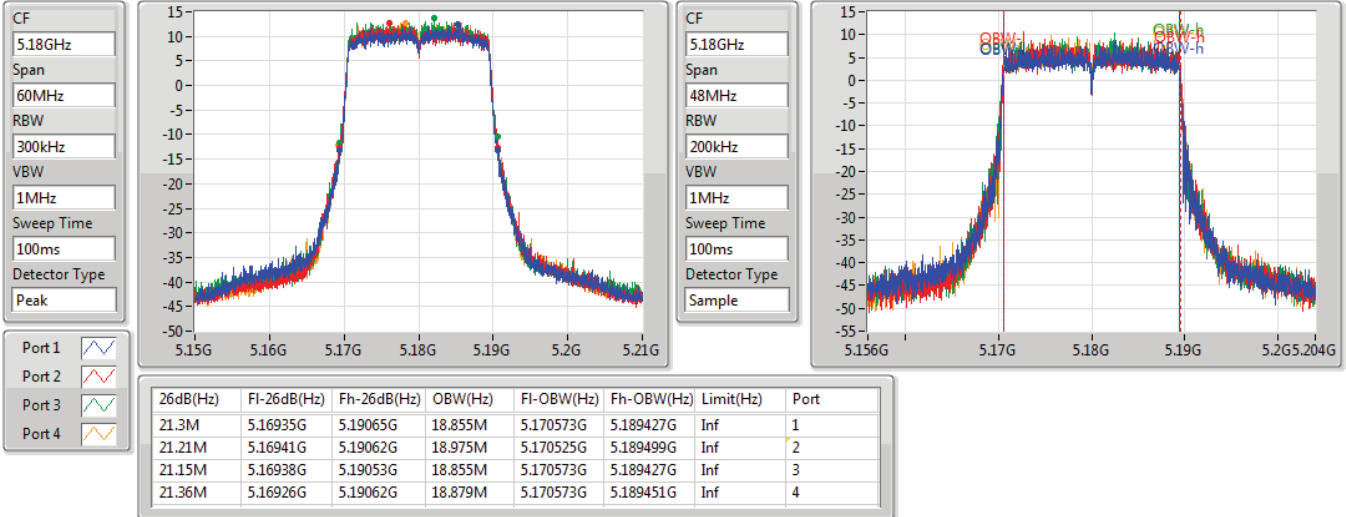


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

31/03/2020

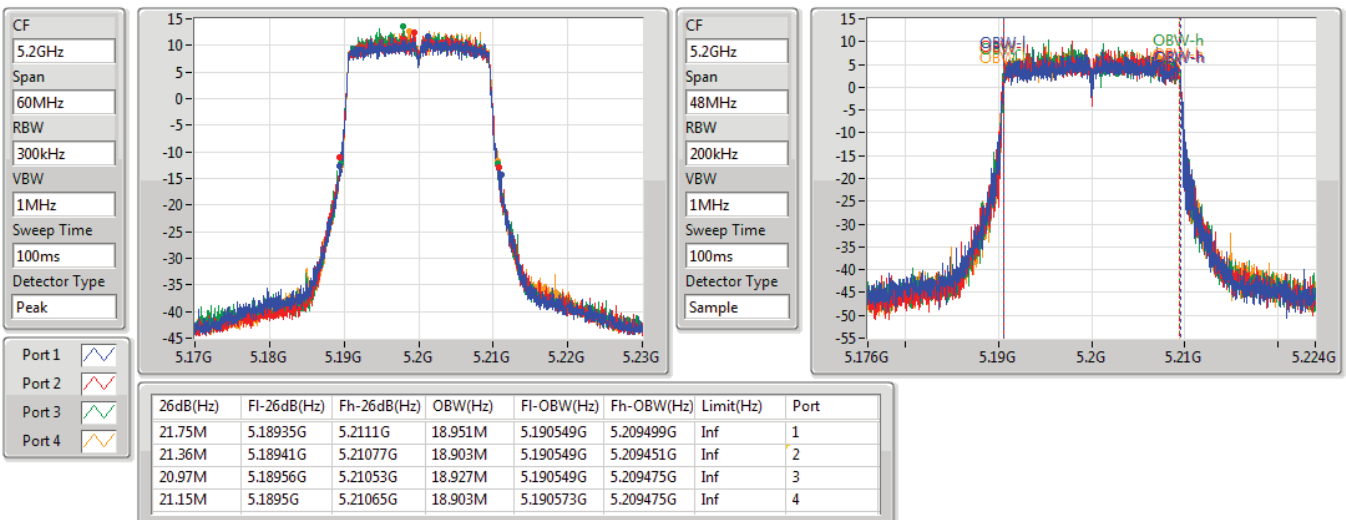


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

31/03/2020

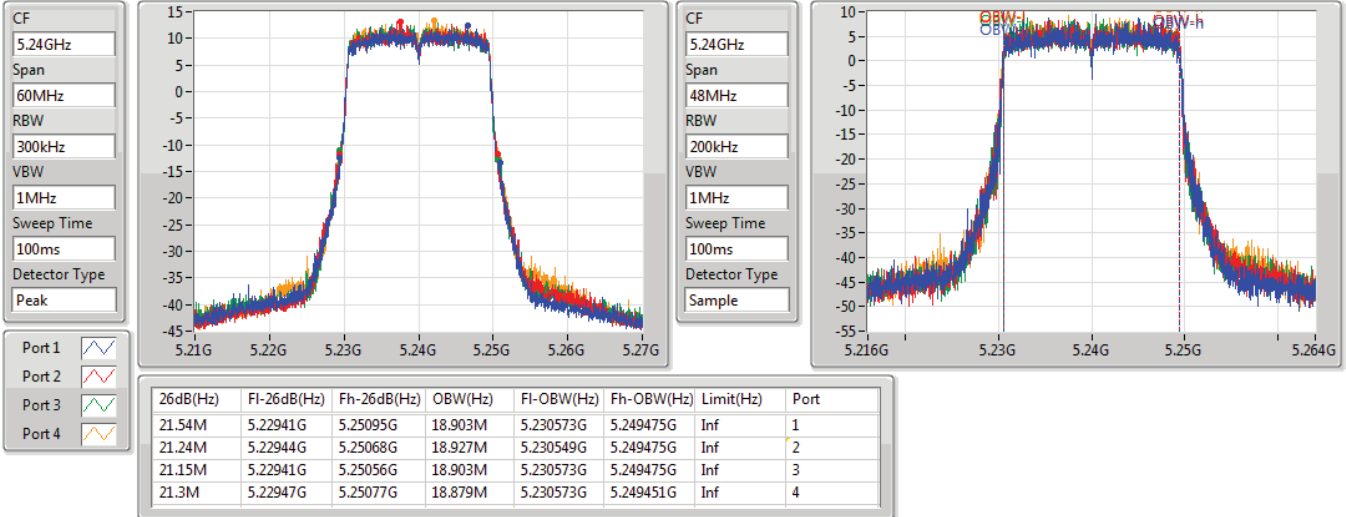


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

31/03/2020

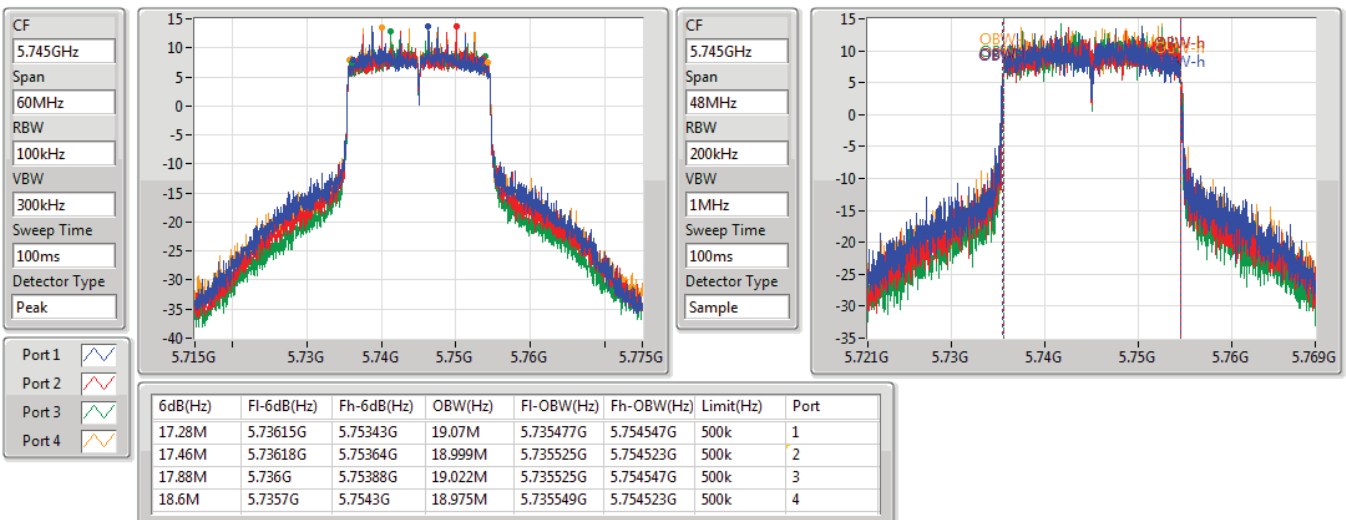


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

31/03/2020

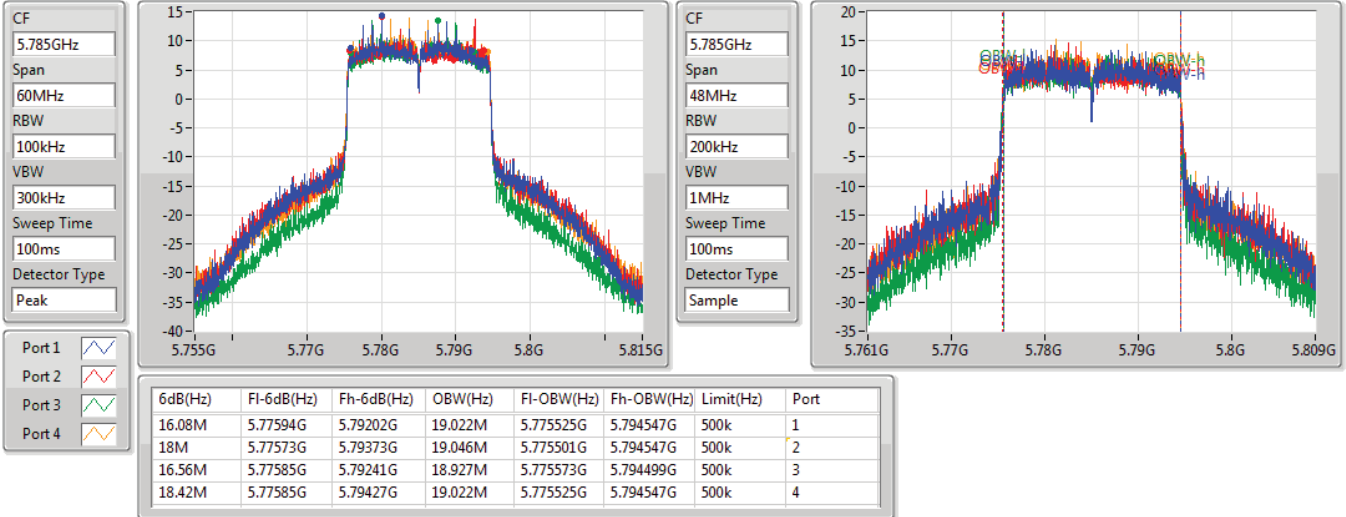


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

31/03/2020

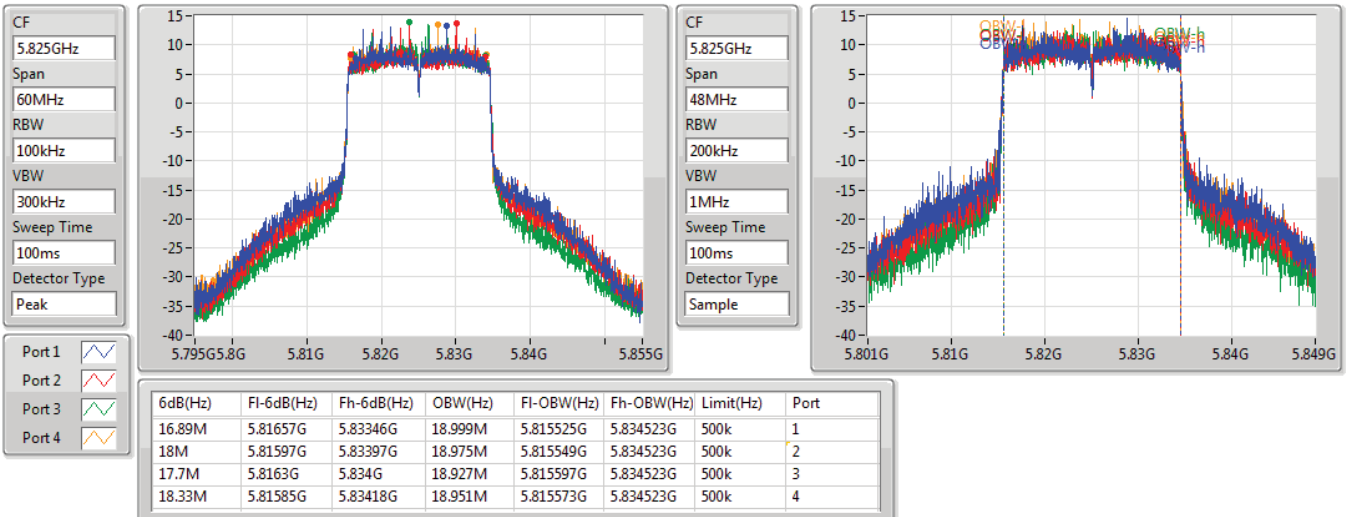


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

31/03/2020

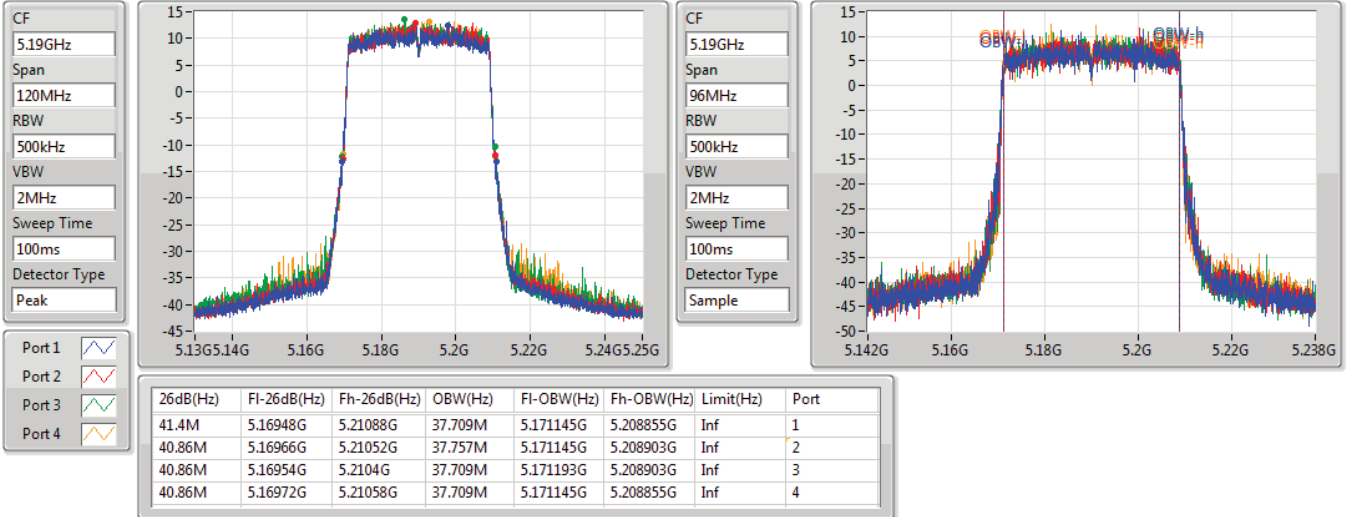


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

31/03/2020

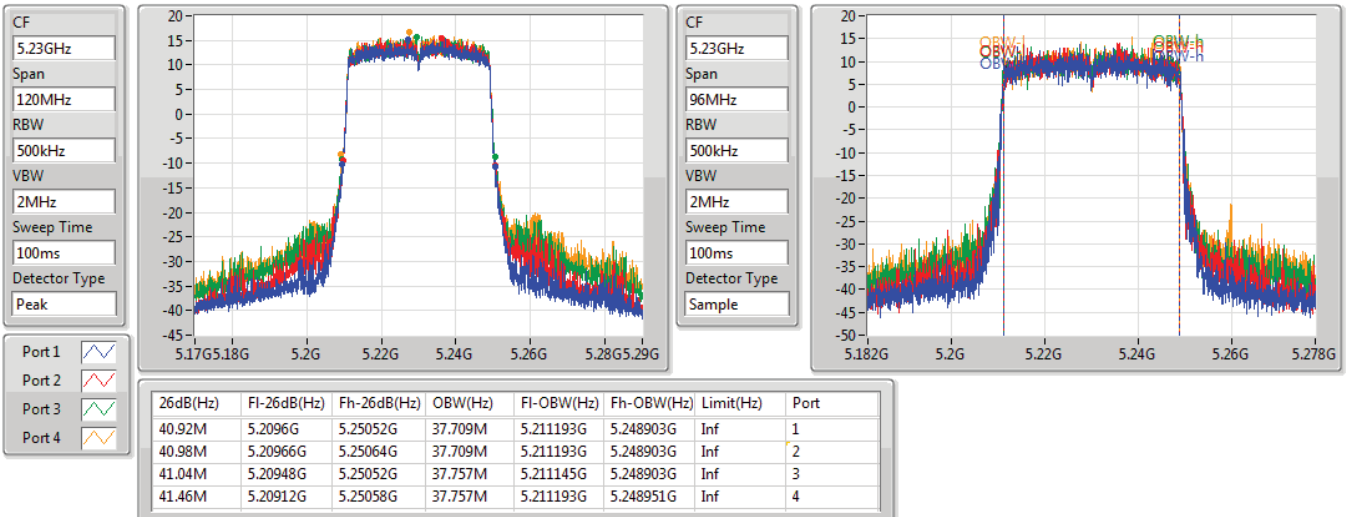


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

31/03/2020



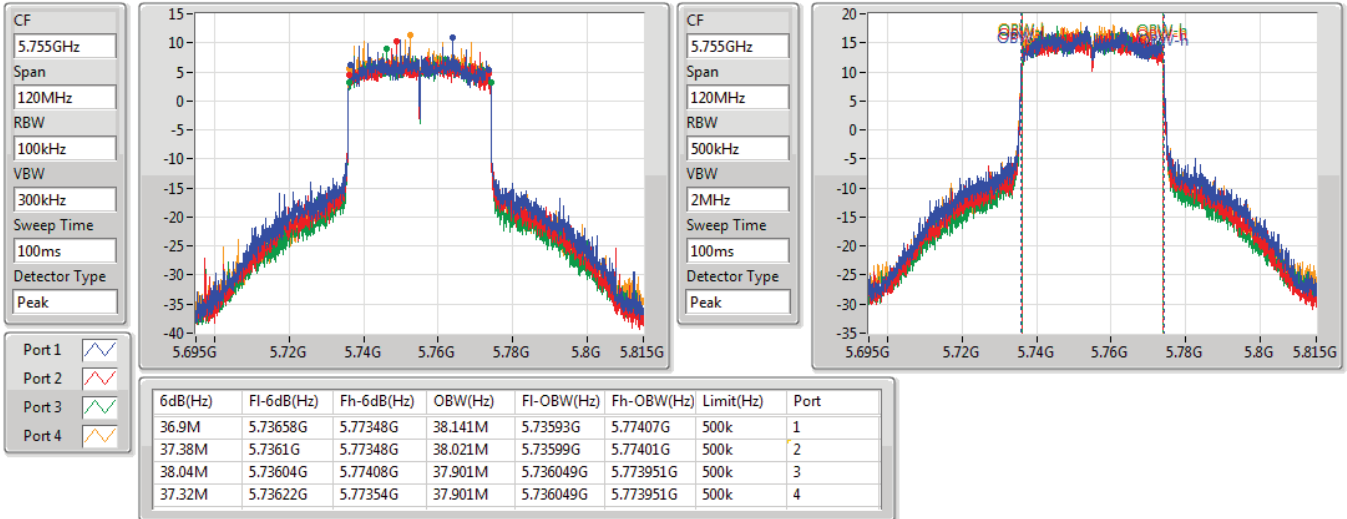


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

10/03/2020

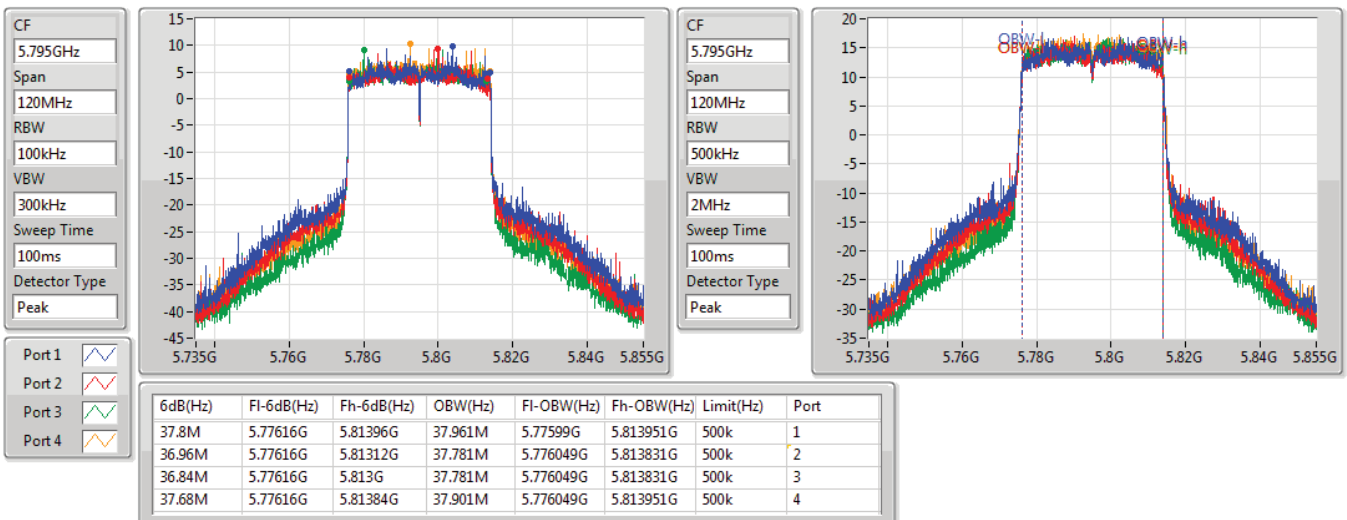


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

10/03/2020

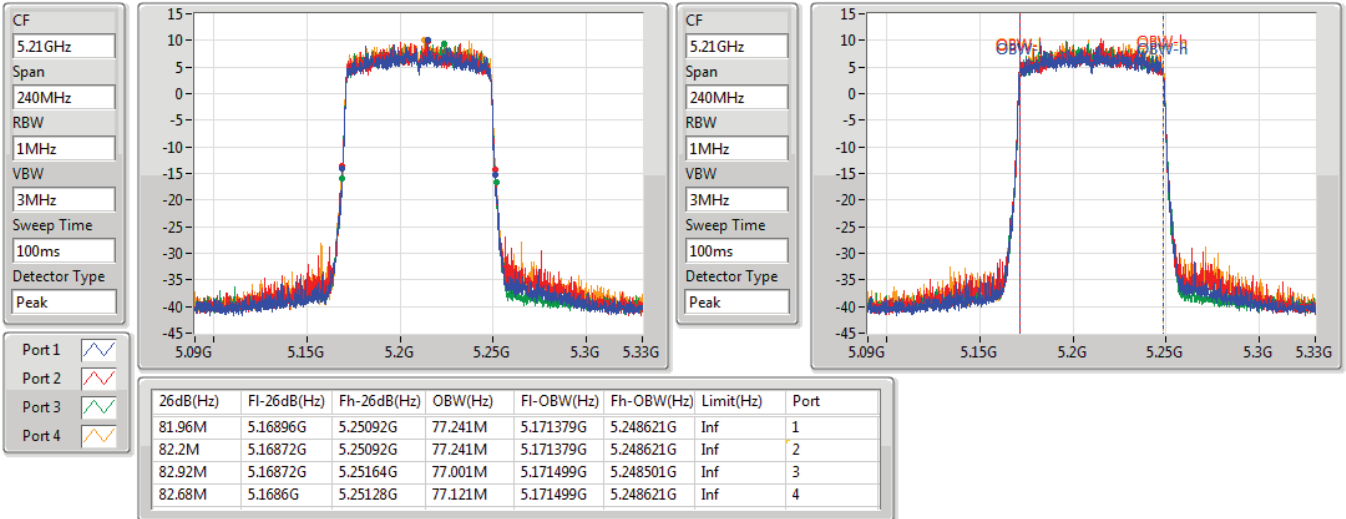


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

10/03/2020

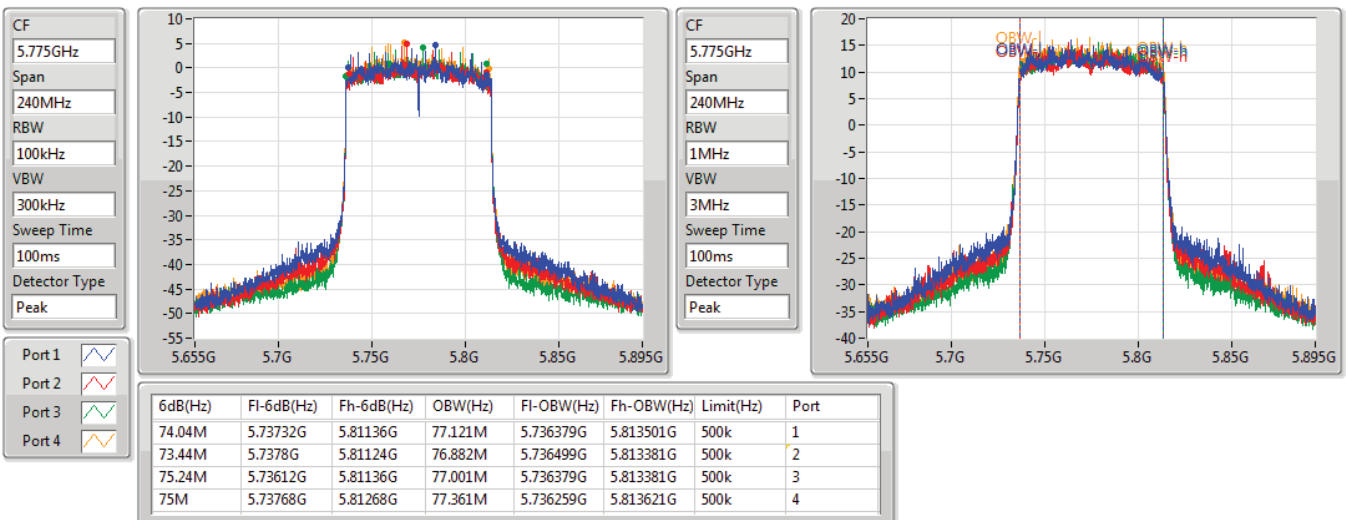


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

10/03/2020



**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	37.47M	18.783M	18M8D1D	26.07M	16.762M
802.11ac VHT20_Nss1,(MCS0)_2TX	40.23M	19.07M	19M1D1D	28.41M	17.847M
802.11ac VHT40_Nss1,(MCS0)_2TX	79.98M	40M	40M0D1D	44.7M	36.522M
802.11ac VHT80_Nss1,(MCS0)_2TX	88.2M	76.042M	76M0D1D	87.84M	76.042M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	24.318M	24M3D1D	15.66M	23.028M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.52M	26.627M	26M6D1D	16.92M	24.588M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.24M	58.951M	59M0D1D	35.64M	48.936M
802.11ac VHT80_Nss1,(MCS0)_2TX	72.84M	79.16M	79M2D1D	69.48M	77.961M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	26.07M	16.762M	26.61M	16.822M
5200MHz	Pass	Inf	36.24M	18.783M	37.47M	18.303M
5240MHz	Pass	Inf	31.29M	16.768M	34.56M	17.463M
5745MHz	Pass	500k	16.29M	23.028M	16.32M	24.318M
5785MHz	Pass	500k	15.66M	24.198M	16.26M	24.258M
5825MHz	Pass	500k	15.99M	23.178M	16.35M	24.228M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	28.41M	17.961M	30.51M	18.021M
5200MHz	Pass	Inf	39.12M	19.07M	40.23M	18.687M
5240MHz	Pass	Inf	32.91M	17.847M	37.74M	18.327M
5745MHz	Pass	500k	17.52M	25.367M	16.92M	24.858M
5785MHz	Pass	500k	17.52M	26.627M	17.28M	24.858M
5825MHz	Pass	500k	17.52M	24.588M	17.52M	25.637M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	46.14M	36.582M	44.7M	36.522M
5230MHz	Pass	Inf	79.98M	40M	76.02M	38.141M
5755MHz	Pass	500k	35.64M	49.175M	35.7M	48.936M
5795MHz	Pass	500k	35.64M	58.531M	36.24M	58.951M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	88.2M	76.042M	87.84M	76.042M
5775MHz	Pass	500k	69.48M	77.961M	72.84M	79.16M

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

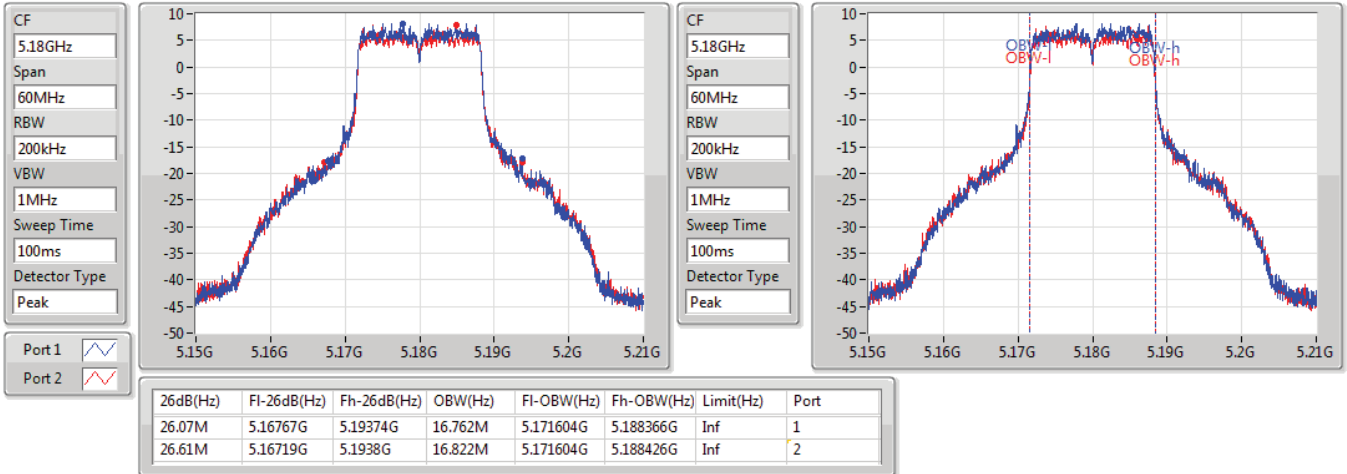
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

14/03/2020

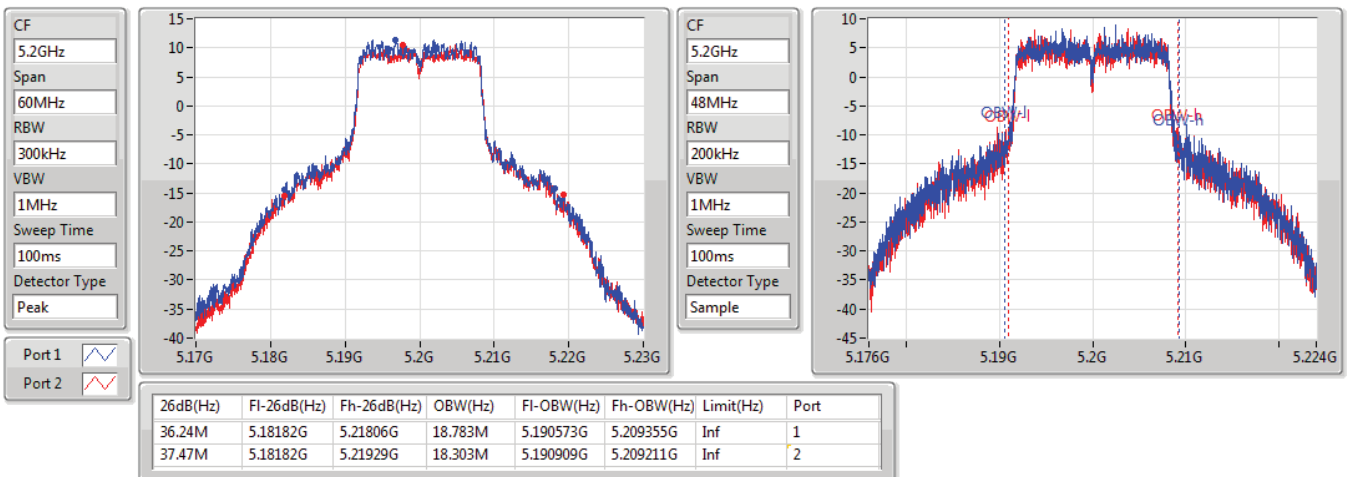


802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

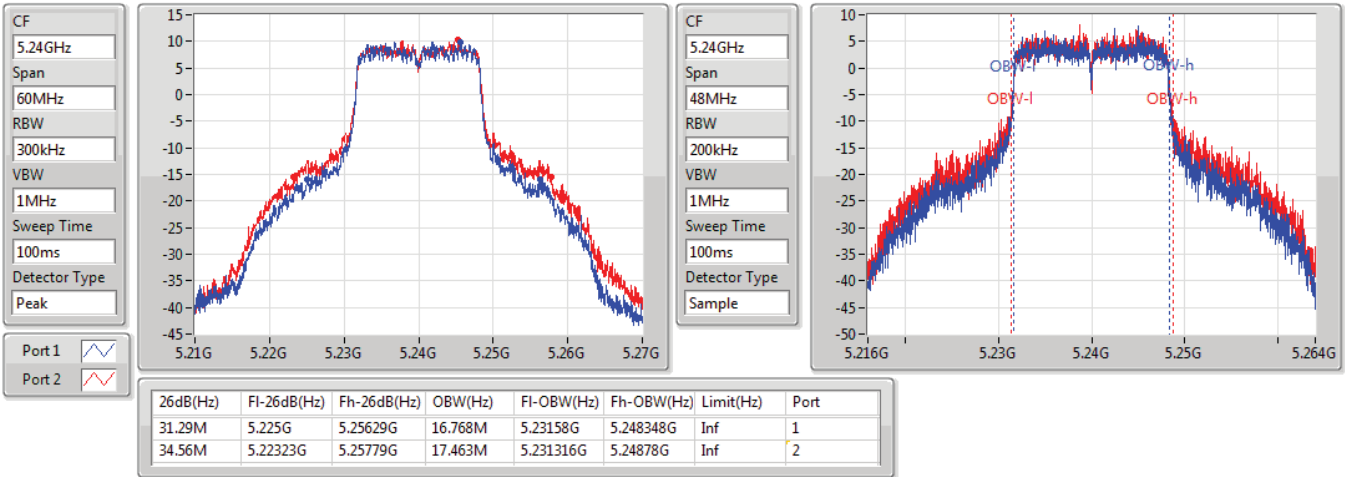
31/03/2020



802.11a_Nss1,(6Mbps)_2TX

5240MHz

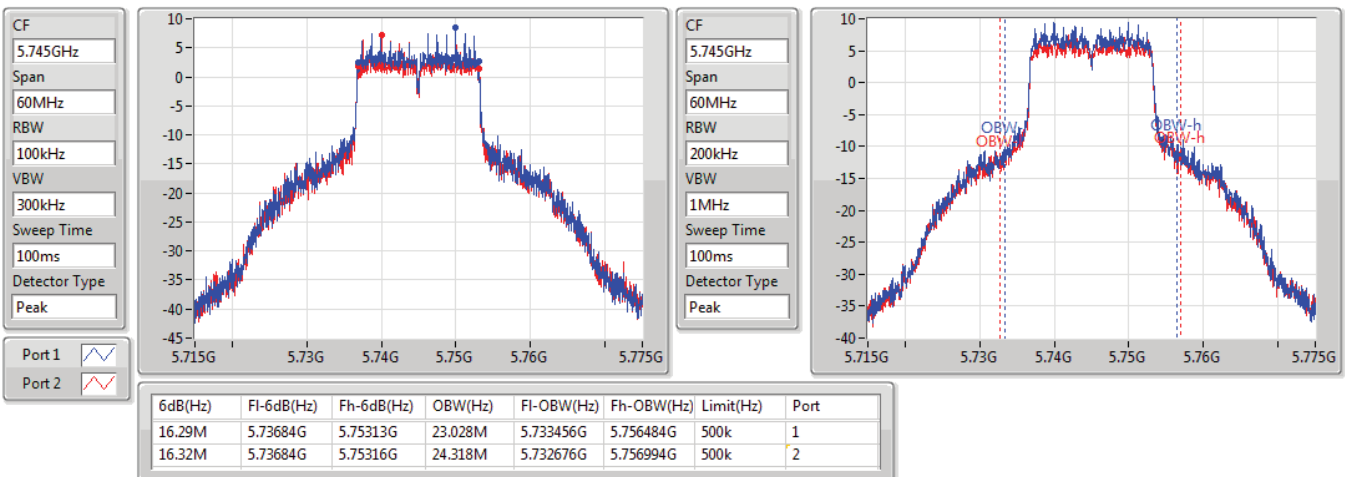
31/03/2020



802.11a_Nss1,(6Mbps)_2TX

5745MHz

14/03/2020

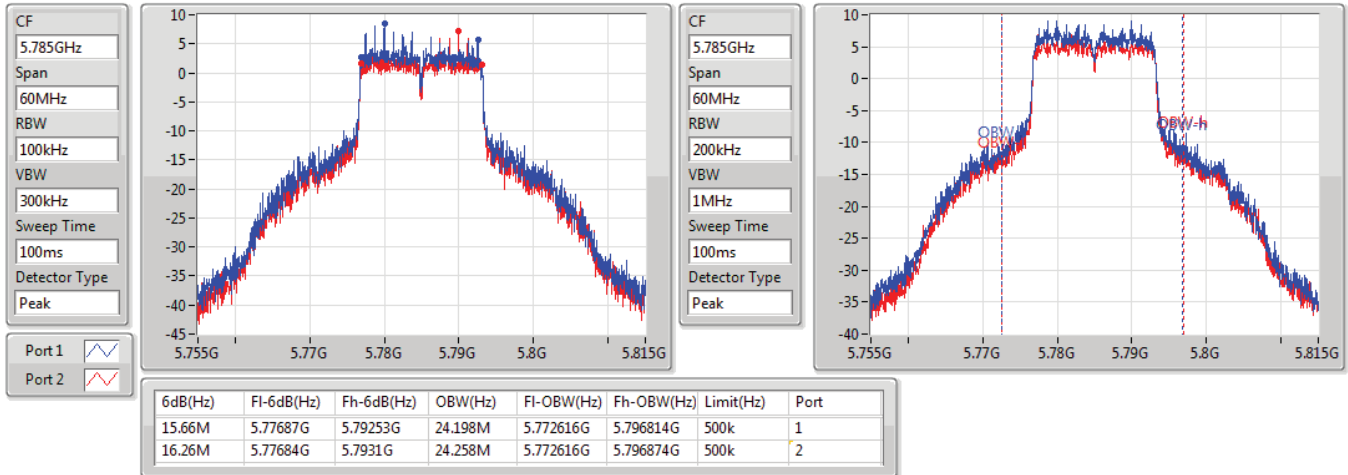


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

14/03/2020

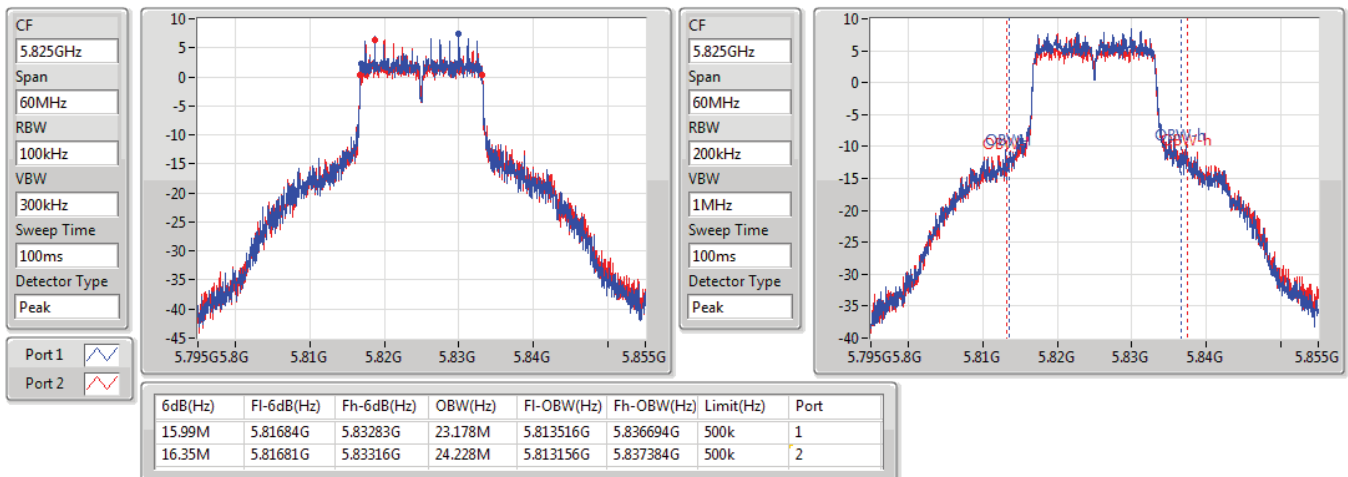


802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

14/03/2020

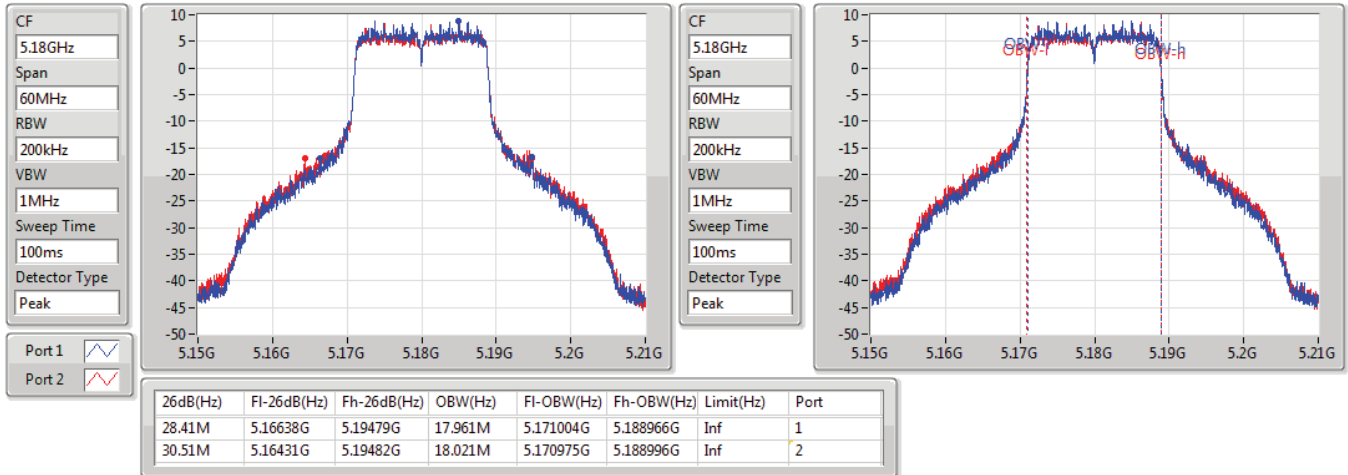


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

14/03/2020

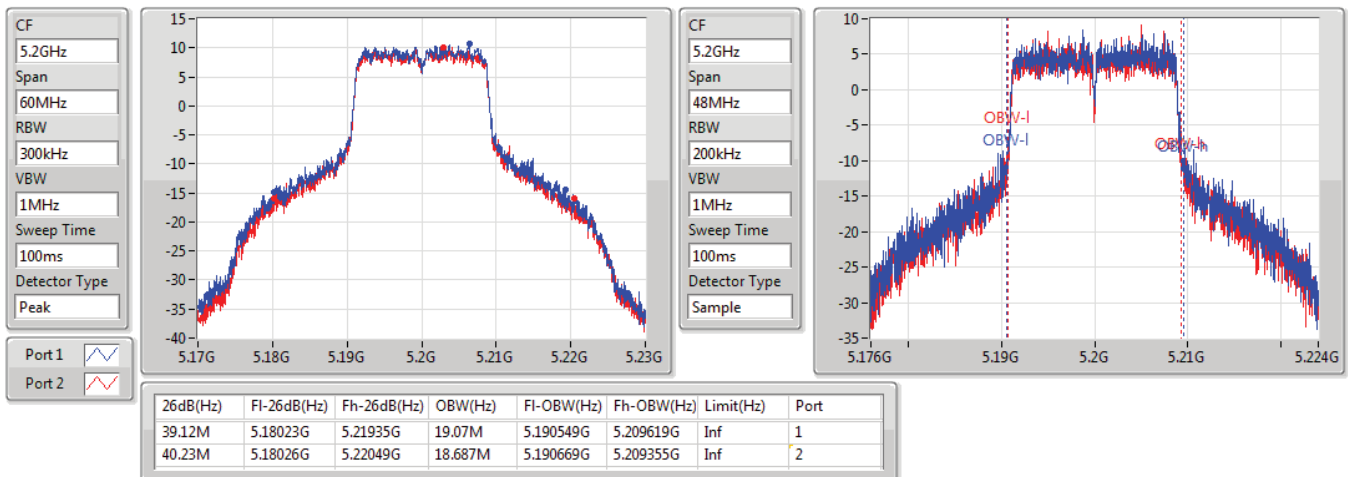


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

31/03/2020

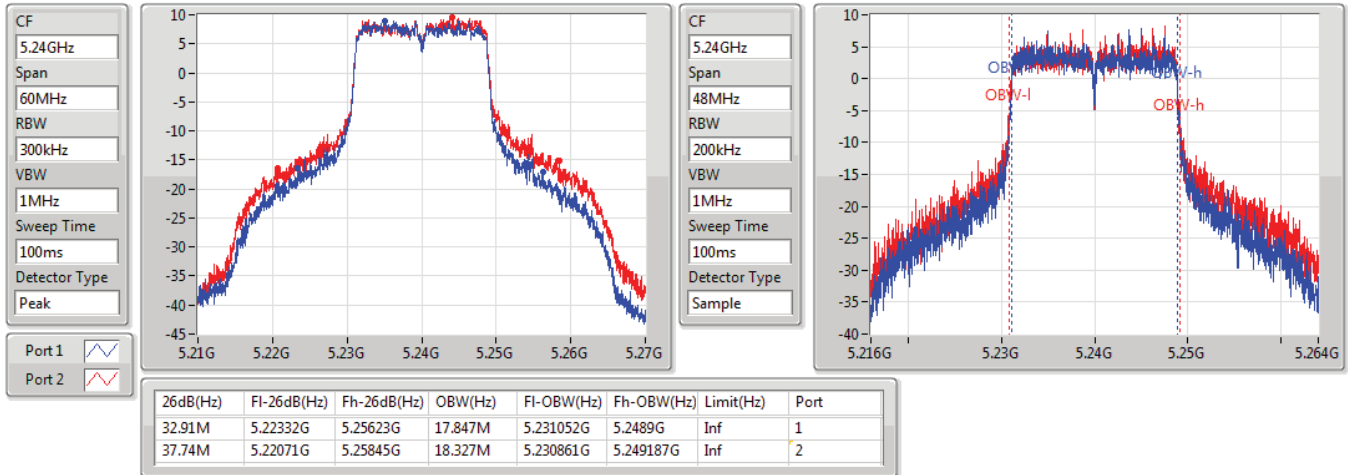


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

31/03/2020

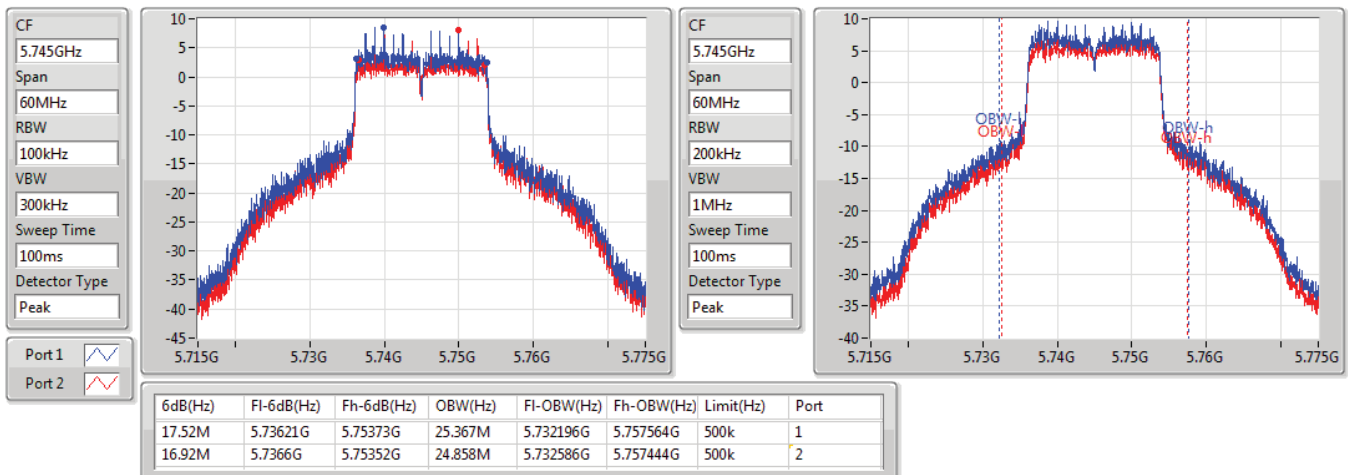


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

14/03/2020

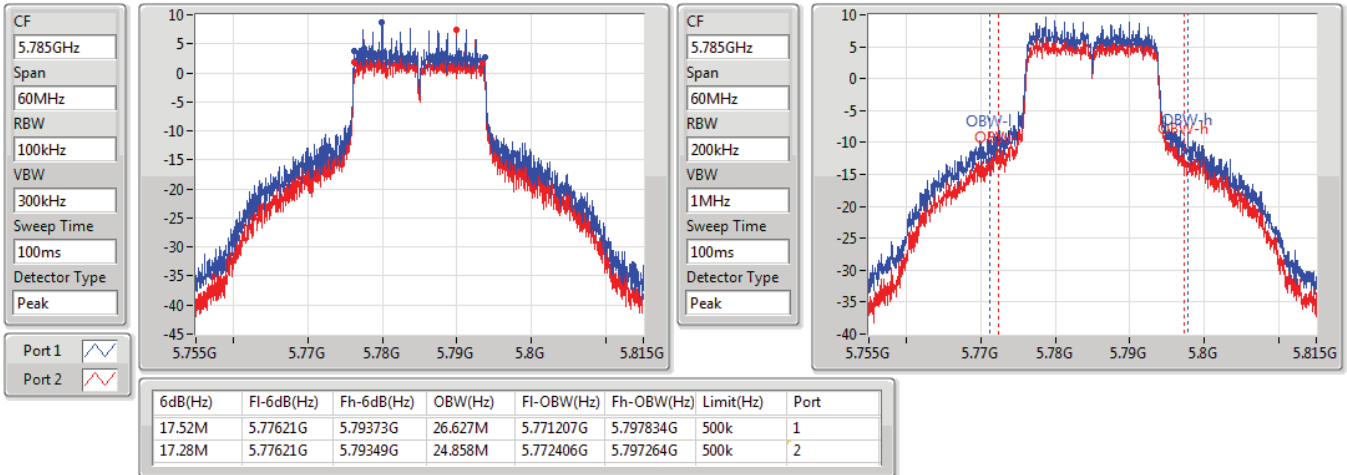


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

14/03/2020

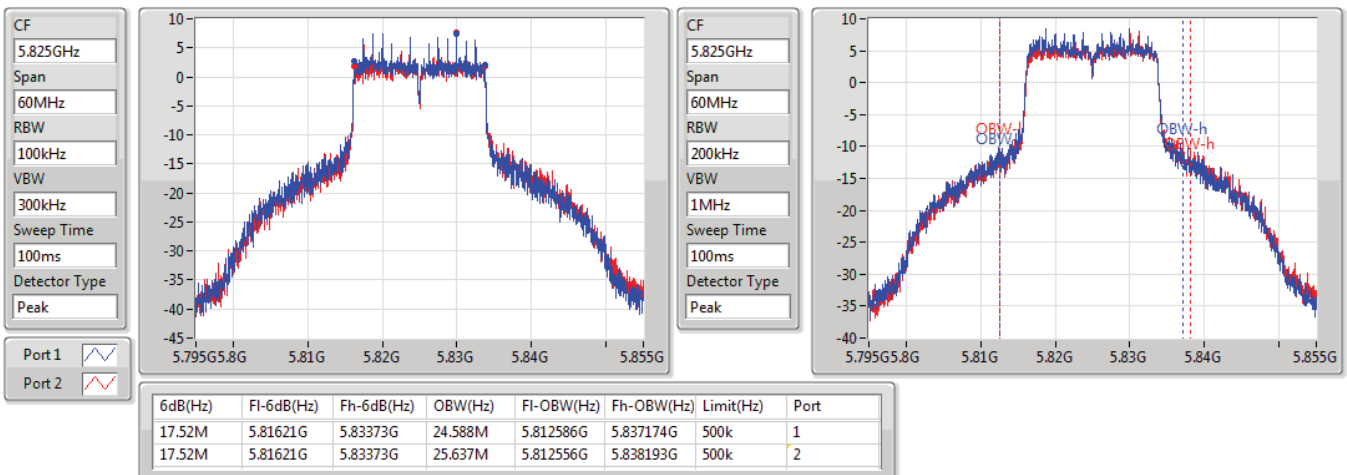


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

14/03/2020

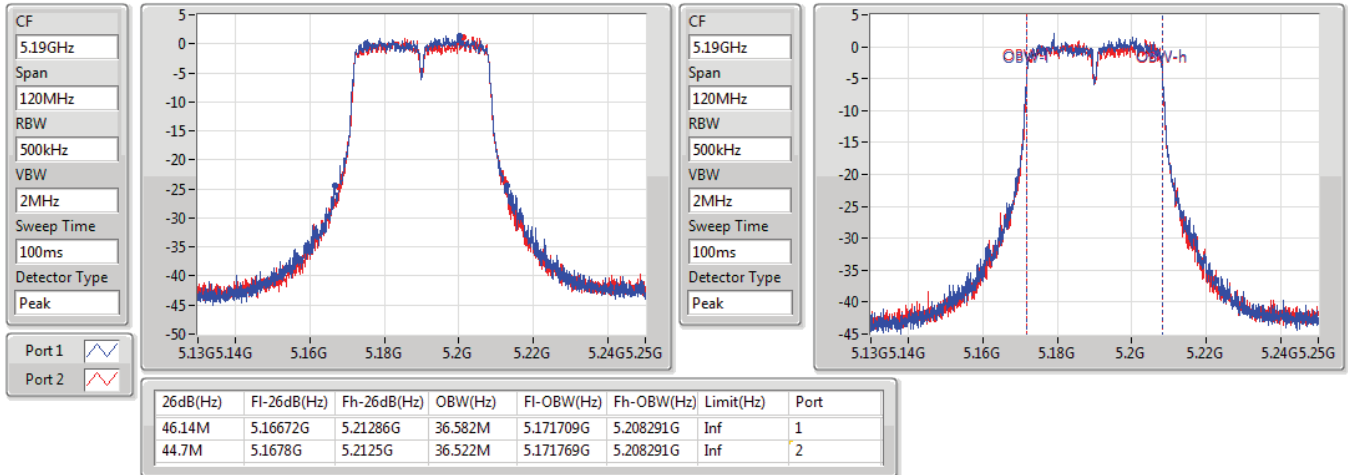


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

14/03/2020

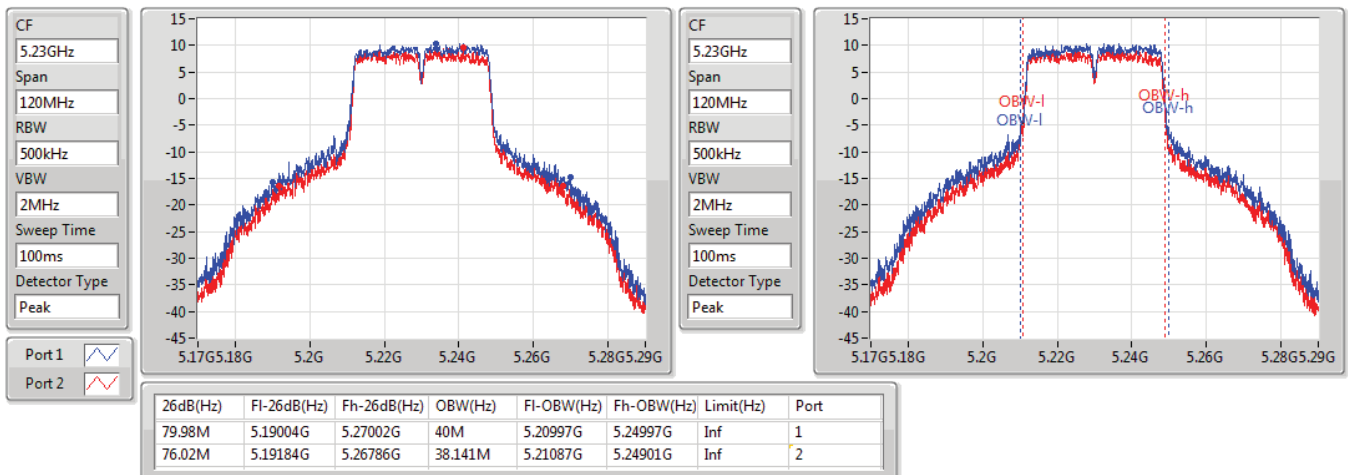


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

14/03/2020

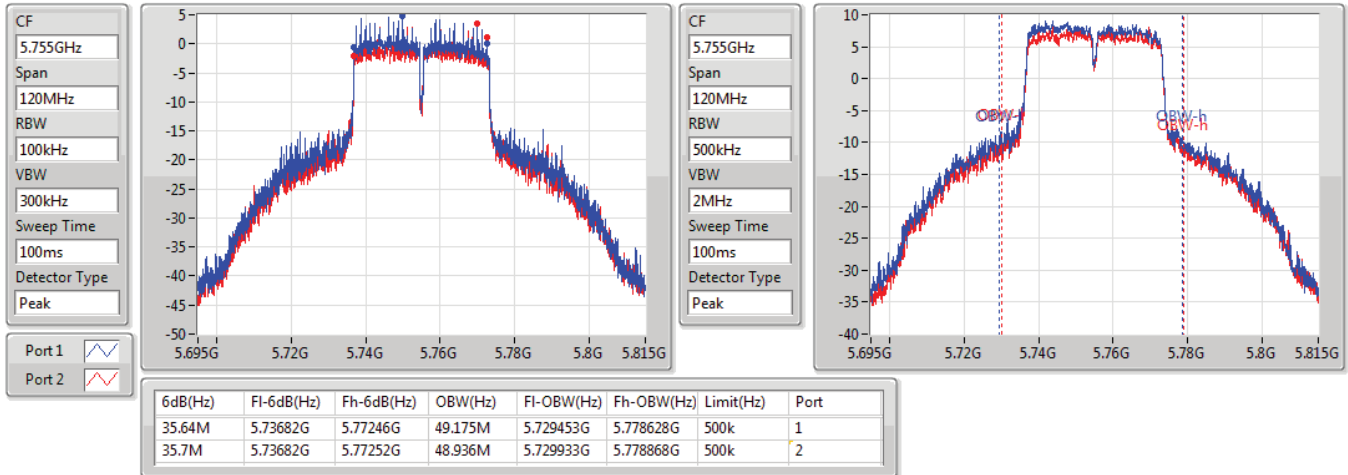


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

14/03/2020

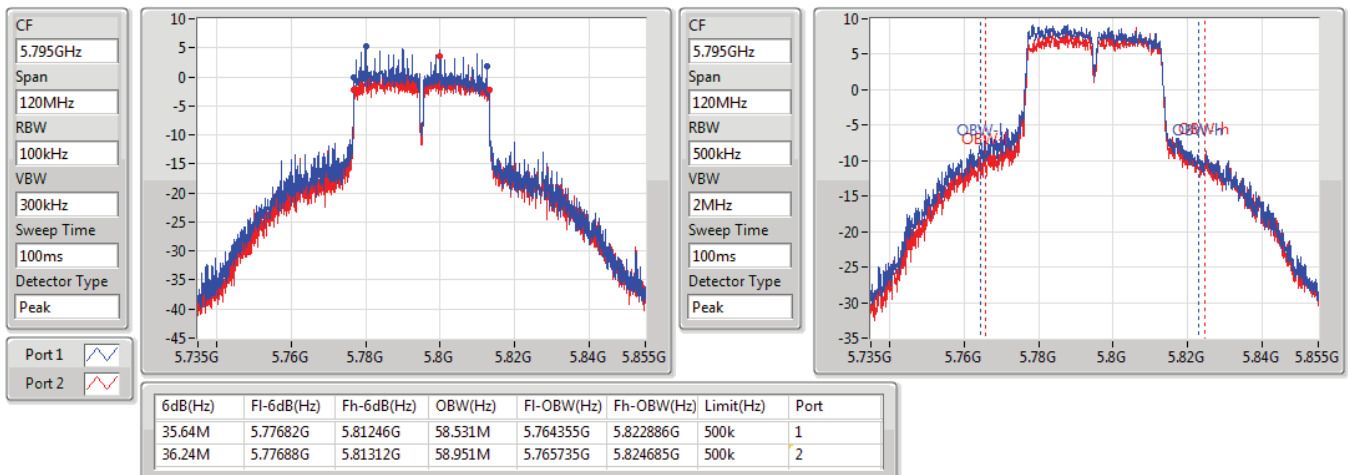


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

14/03/2020

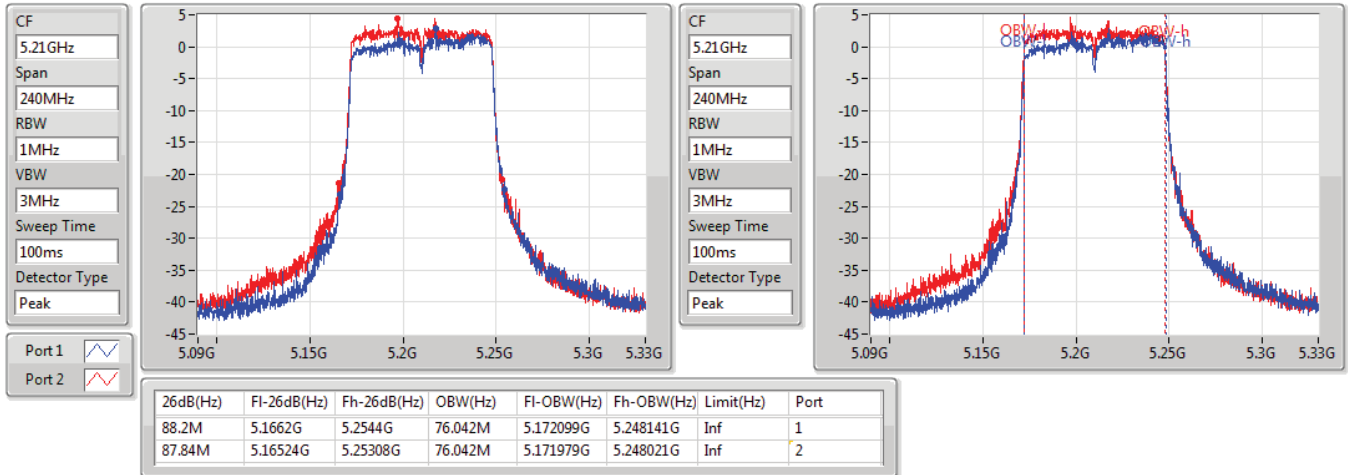


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

19/03/2020

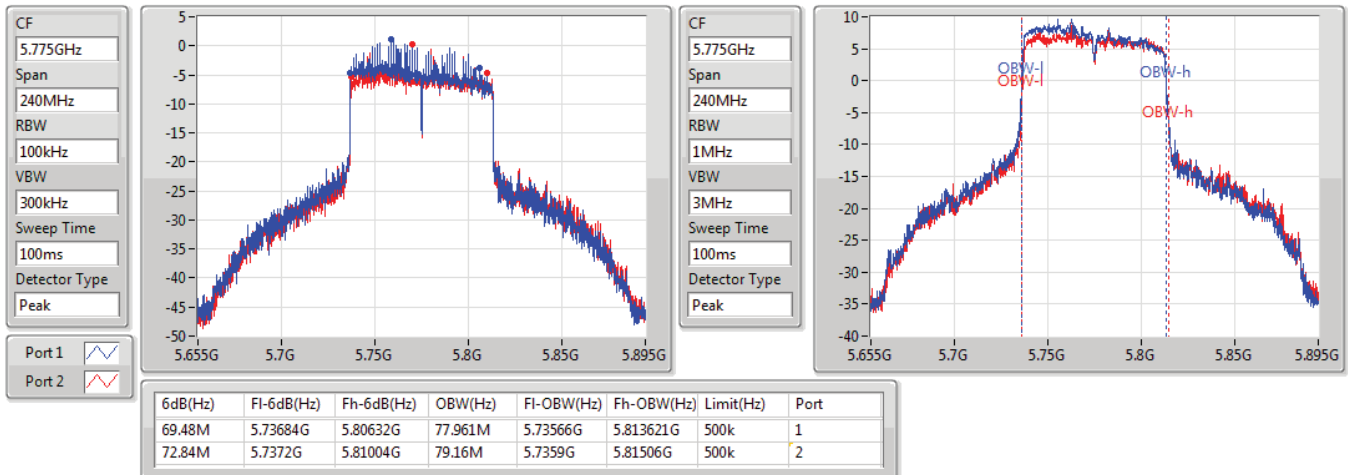


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

14/03/2020



**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	19.59M	16.384M	16M4D1D	19.26M	16.336M
802.11ac VHT20_Nss1,(MCS0)_4TX	21.09M	17.631M	17M6D1D	20.46M	17.559M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.56M	36.174M	36M2D1D	40.02M	36.03M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.44M	75.514M	75M5D1D	81M	75.322M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.6M	18.927M	18M9D1D	20.97M	18.879M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.16M	37.709M	37M7D1D	40.68M	37.613M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.68M	77.337M	77M3D1D	82.08M	76.954M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.32M	16.528M	16M5D1D	15.3M	16.336M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.55M	17.655M	17M7D1D	15.03M	17.559M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.3M	36.174M	36M2D1D	32.22M	35.982M
802.11ac VHT80_Nss1,(MCS0)_4TX	74.4M	75.514M	75M5D1D	68.88M	75.418M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.9M	18.975M	19M0D1D	16.38M	18.903M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.98M	37.805M	37M8D1D	34.8M	37.613M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.92M	77.145M	77M1D1D	75.6M	76.954M

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	19.5M	16.336M	19.35M	16.384M	19.44M	16.36M	19.53M	16.384M
5200MHz	Pass	Inf	19.59M	16.384M	19.38M	16.36M	19.35M	16.36M	19.47M	16.36M
5240MHz	Pass	Inf	19.29M	16.36M	19.47M	16.36M	19.26M	16.36M	19.53M	16.384M
5745MHz	Pass	500k	15.3M	16.384M	16.29M	16.528M	15.99M	16.456M	15.99M	16.456M
5785MHz	Pass	500k	16.32M	16.456M	15.87M	16.456M	16.02M	16.408M	15.69M	16.336M
5825MHz	Pass	500k	16.29M	16.432M	15.3M	16.384M	15.66M	16.432M	15.33M	16.36M
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.09M	17.631M	20.64M	17.583M	20.67M	17.583M	20.94M	17.607M
5200MHz	Pass	Inf	21.03M	17.631M	20.46M	17.583M	20.67M	17.583M	20.88M	17.607M
5240MHz	Pass	Inf	20.88M	17.607M	20.79M	17.607M	20.61M	17.559M	20.82M	17.607M
5745MHz	Pass	500k	17.16M	17.559M	15.63M	17.559M	16.23M	17.583M	16.5M	17.655M
5785MHz	Pass	500k	16.2M	17.607M	15.03M	17.583M	17.52M	17.583M	15.9M	17.559M
5825MHz	Pass	500k	16.14M	17.631M	16.89M	17.655M	15.54M	17.631M	17.55M	17.607M
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.2M	36.03M	40.56M	36.126M	40.2M	36.03M	40.5M	36.03M
5230MHz	Pass	Inf	40.02M	36.078M	40.26M	36.126M	40.26M	36.174M	40.56M	36.03M
5755MHz	Pass	500k	35.46M	36.078M	33.84M	35.982M	32.22M	36.126M	36.3M	36.174M
5795MHz	Pass	500k	35.22M	36.078M	35.1M	36.078M	35.4M	36.126M	35.1M	36.126M
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.08M	75.418M	81M	75.322M	82.44M	75.514M	81M	75.418M
5775MHz	Pass	500k	68.88M	75.418M	70.08M	75.418M	74.4M	75.418M	73.8M	75.514M
802.11ax_HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.06M	18.927M	21.15M	18.903M	21.03M	18.879M	21.03M	18.879M
5200MHz	Pass	Inf	21.09M	18.927M	21.54M	18.879M	21.6M	18.903M	21.21M	18.903M
5240MHz	Pass	Inf	21.51M	18.927M	21.33M	18.903M	20.97M	18.879M	21.48M	18.903M
5745MHz	Pass	500k	18.57M	18.975M	18.42M	18.975M	18.33M	18.927M	16.38M	18.903M
5785MHz	Pass	500k	18.9M	18.975M	18.33M	18.975M	18.69M	18.927M	18.81M	18.927M
5825MHz	Pass	500k	18.81M	18.951M	18.06M	18.927M	17.82M	18.951M	18.87M	18.975M
802.11ax_HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.8M	37.709M	40.68M	37.709M	40.8M	37.613M	40.86M	37.613M
5230MHz	Pass	Inf	41.16M	37.709M	40.98M	37.709M	40.74M	37.709M	41.1M	37.709M
5755MHz	Pass	500k	34.8M	37.613M	35.82M	37.709M	35.76M	37.757M	37.98M	37.805M
5795MHz	Pass	500k	35.82M	37.613M	36.9M	37.757M	37.62M	37.805M	37.8M	37.805M
802.11ax_HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.08M	77.049M	82.08M	76.954M	82.08M	77.337M	82.68M	77.145M
5775MHz	Pass	500k	76.08M	76.954M	75.84M	77.145M	75.6M	77.145M	76.92M	77.145M

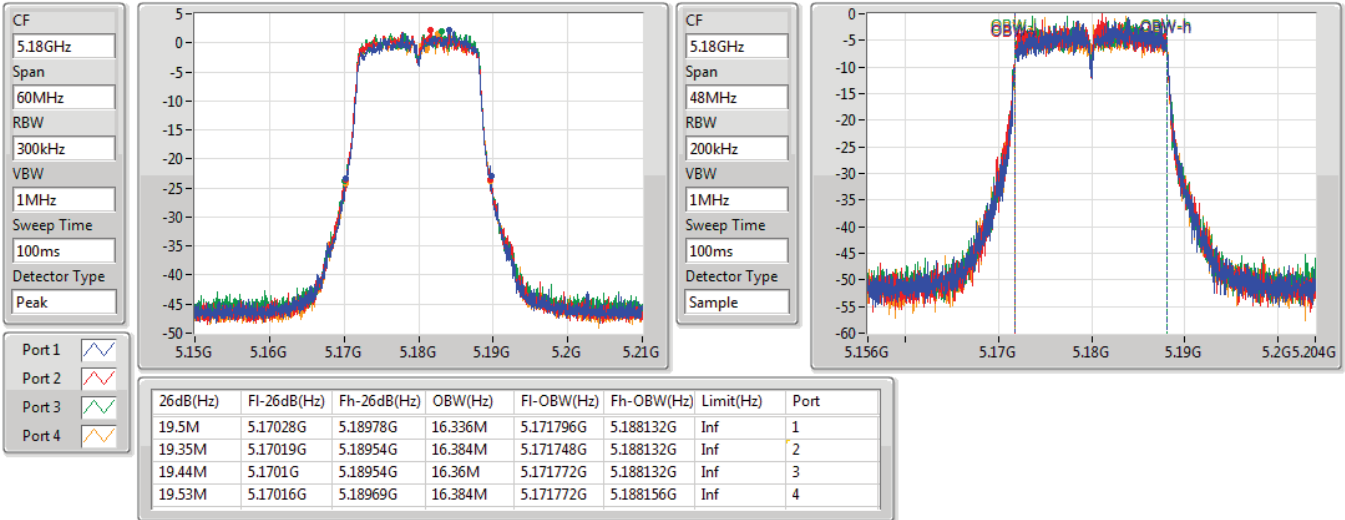
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band**Port X-OBW** = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

10/04/2020

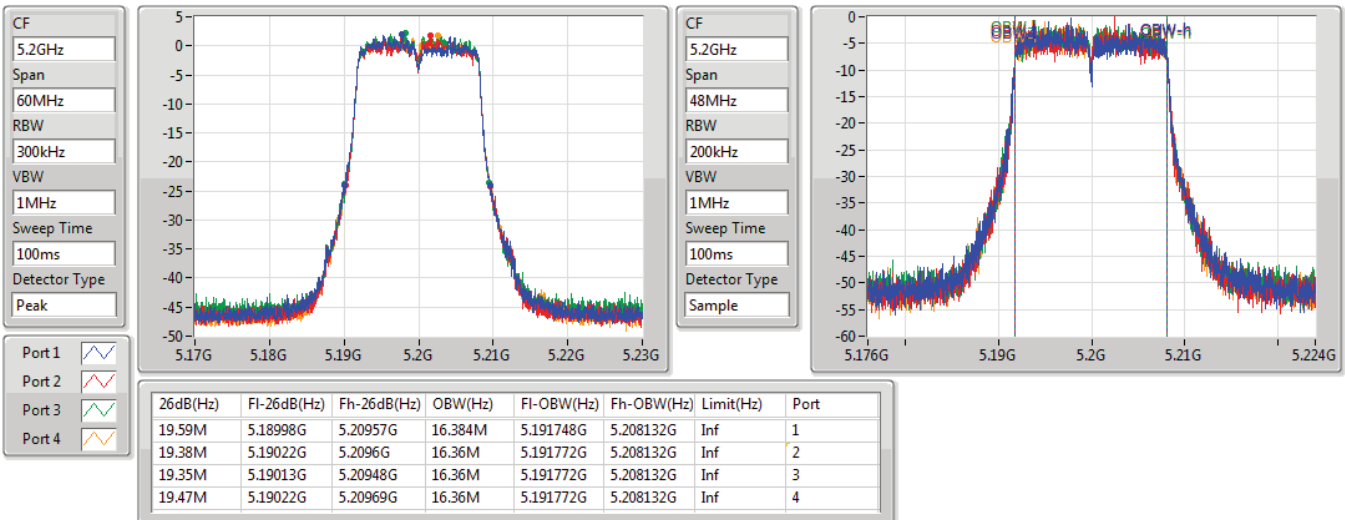


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

10/04/2020



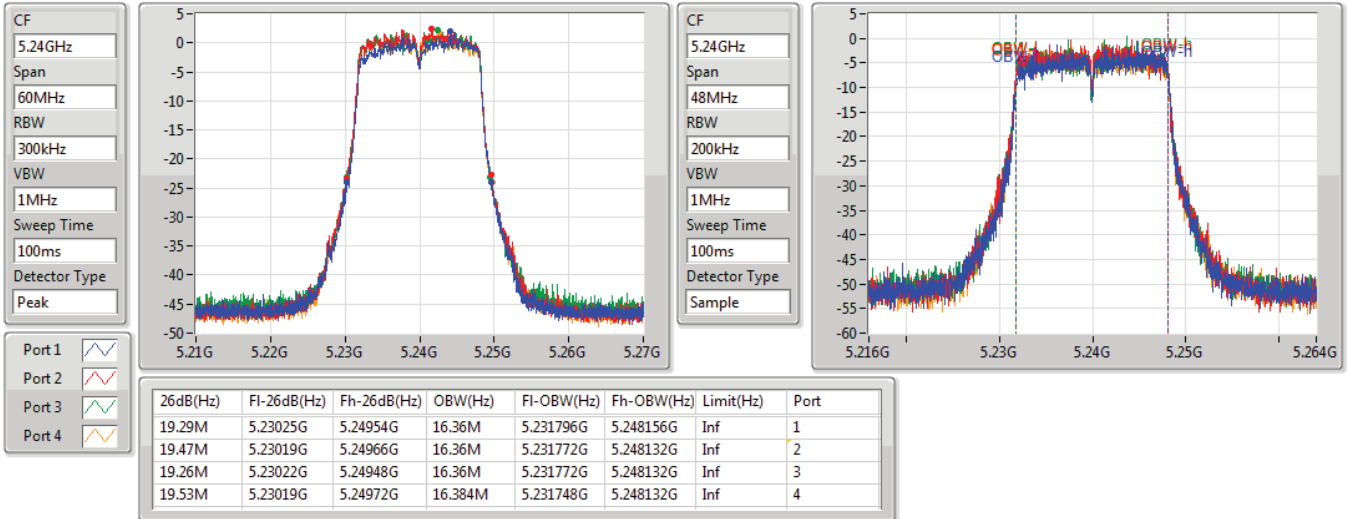


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

10/04/2020

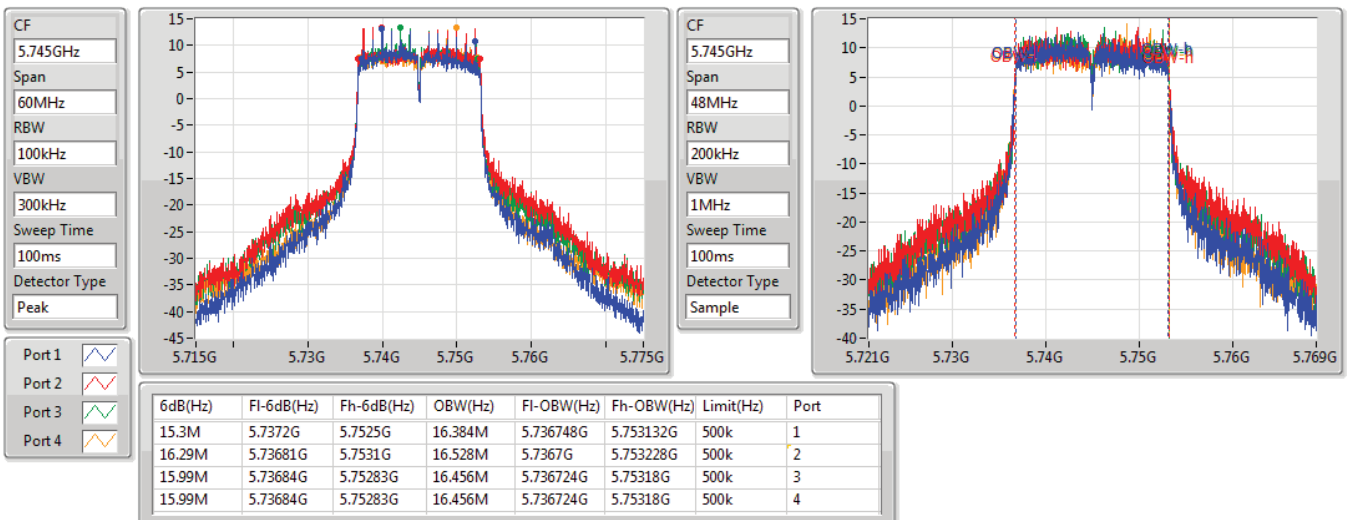


802.11a_Nss1,(6Mbps)_4TX

EBW

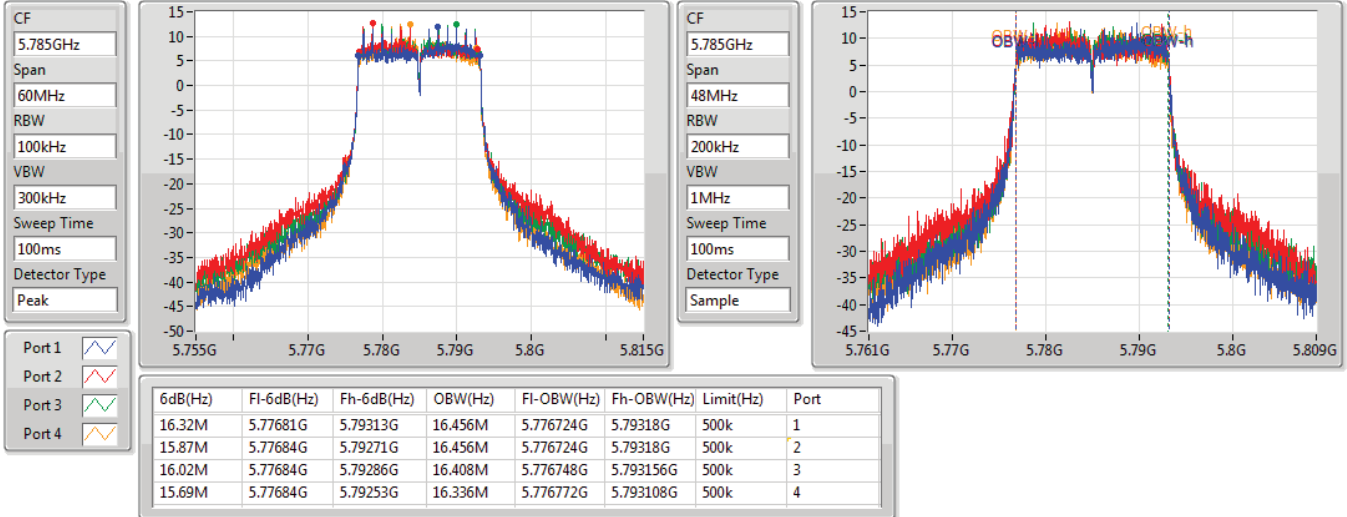
5745MHz

02/04/2020

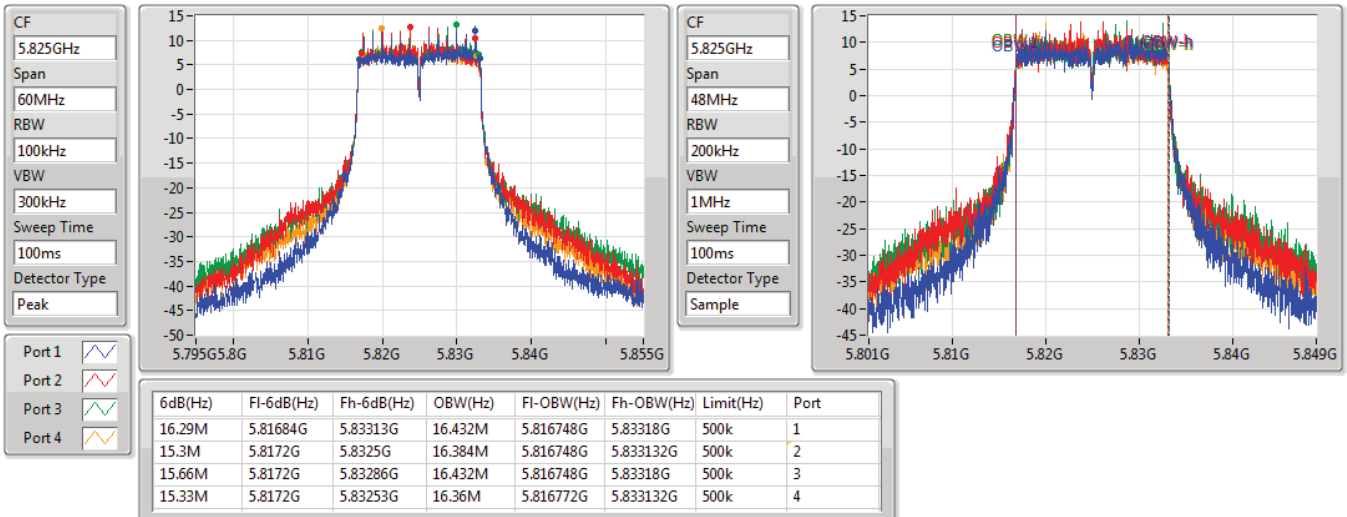


802.11a_Nss1,(6Mbps)_4TX
EBW
5785MHz

03/04/2020


802.11a_Nss1,(6Mbps)_4TX
EBW
5825MHz

03/04/2020



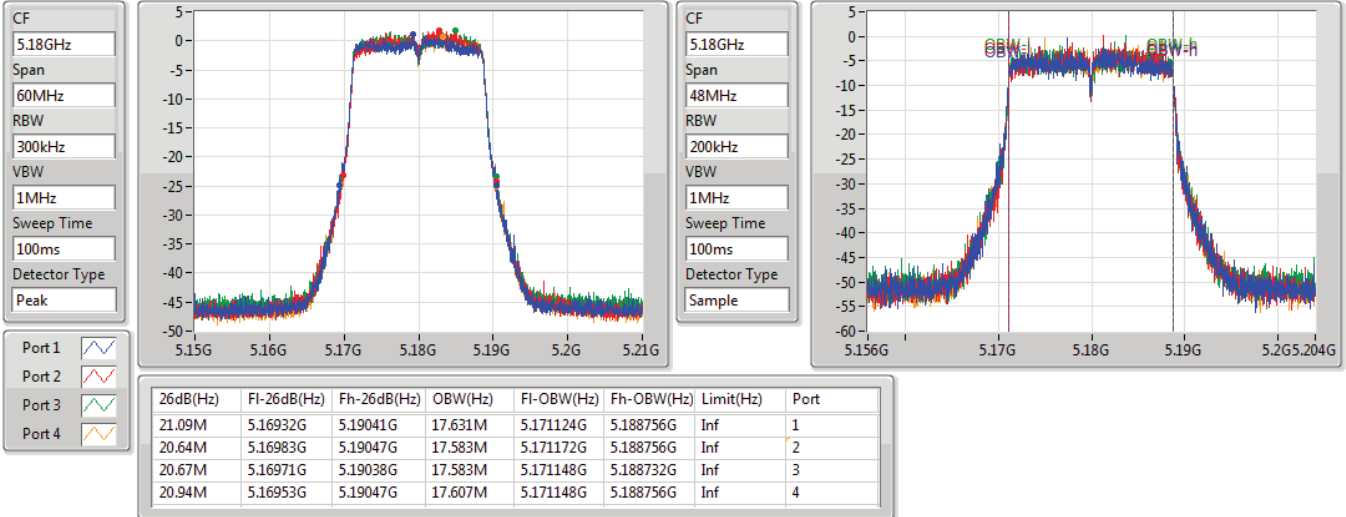


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

10/04/2020

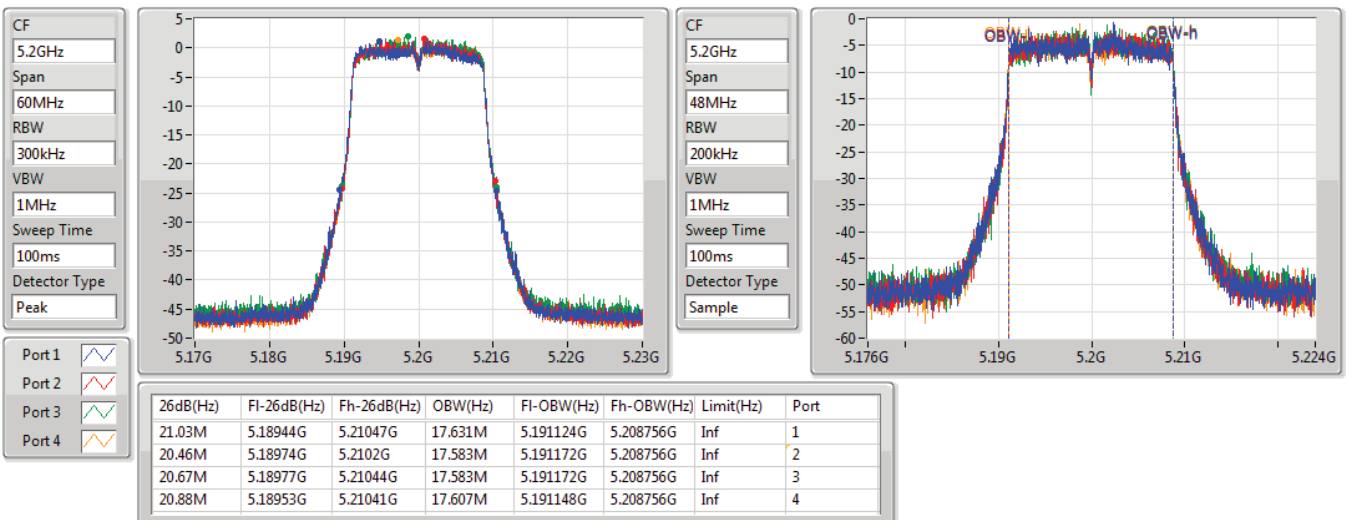


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

10/04/2020



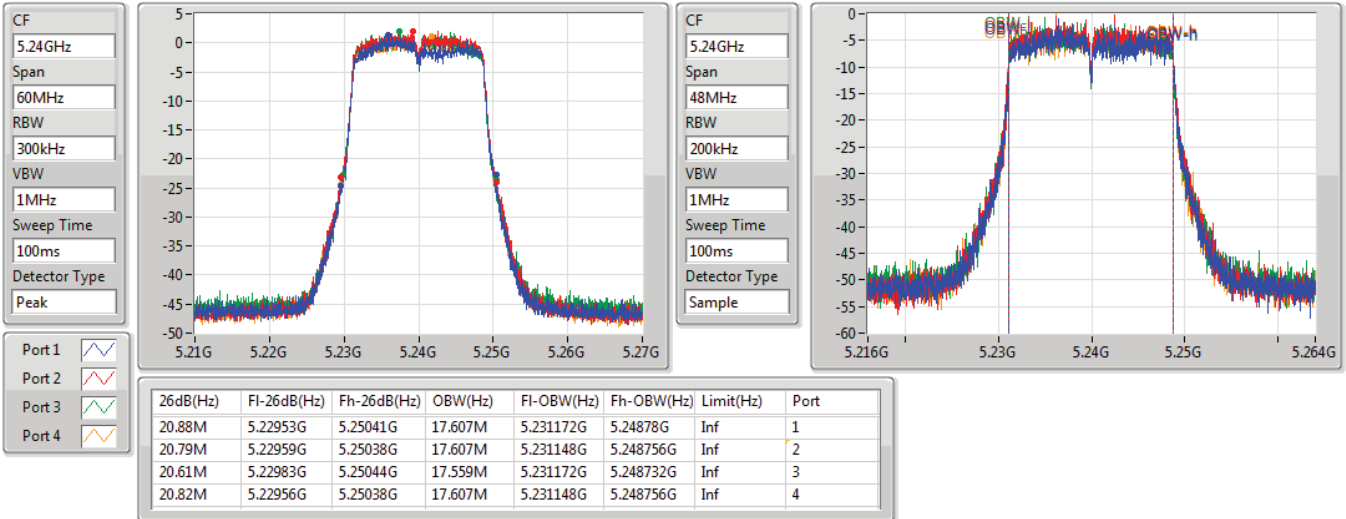


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5240MHz

10/04/2020

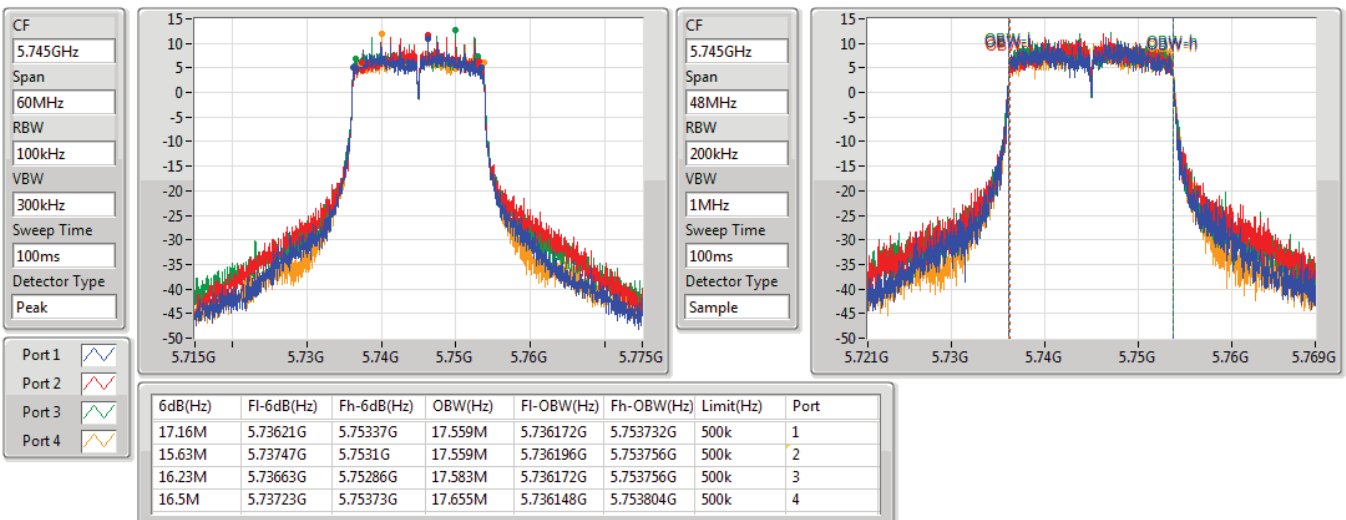


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

03/04/2020



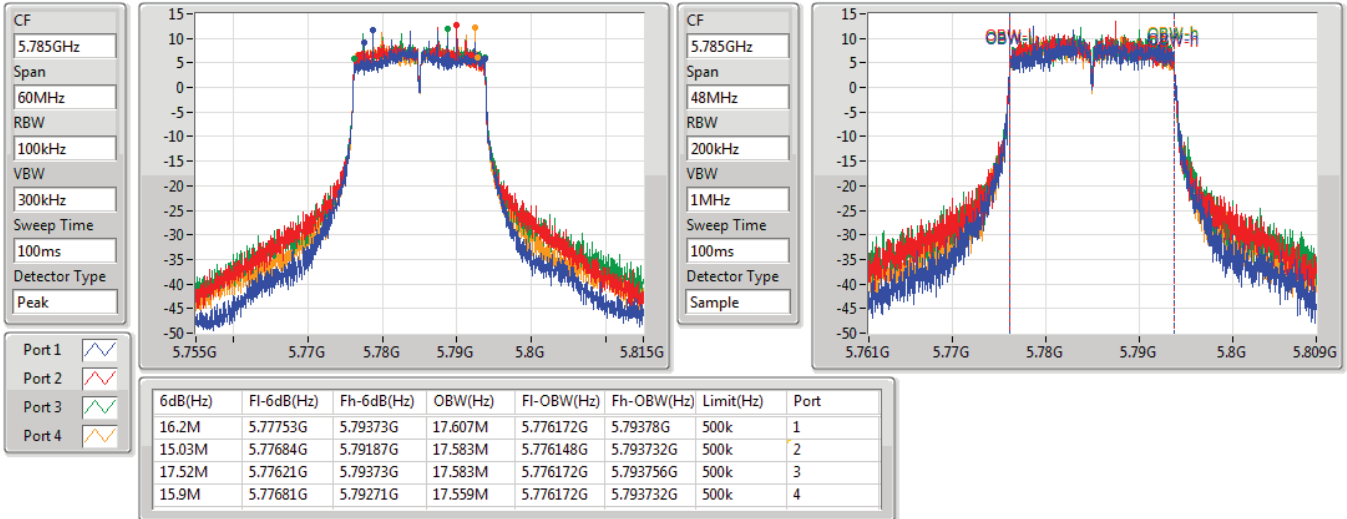


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5785MHz

03/04/2020

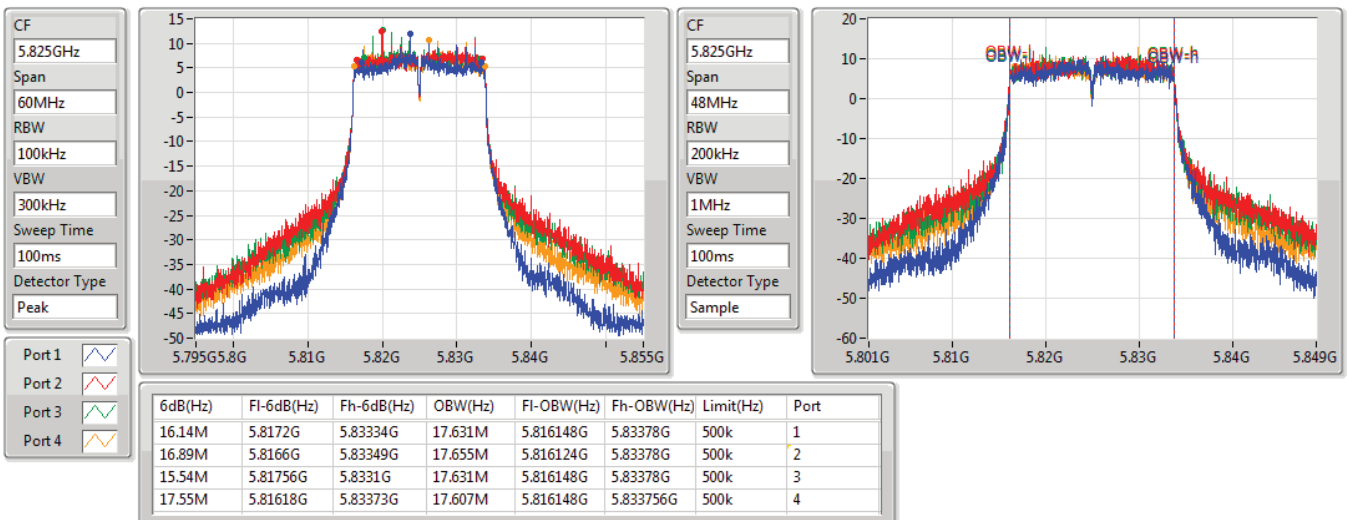


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5825MHz

03/04/2020



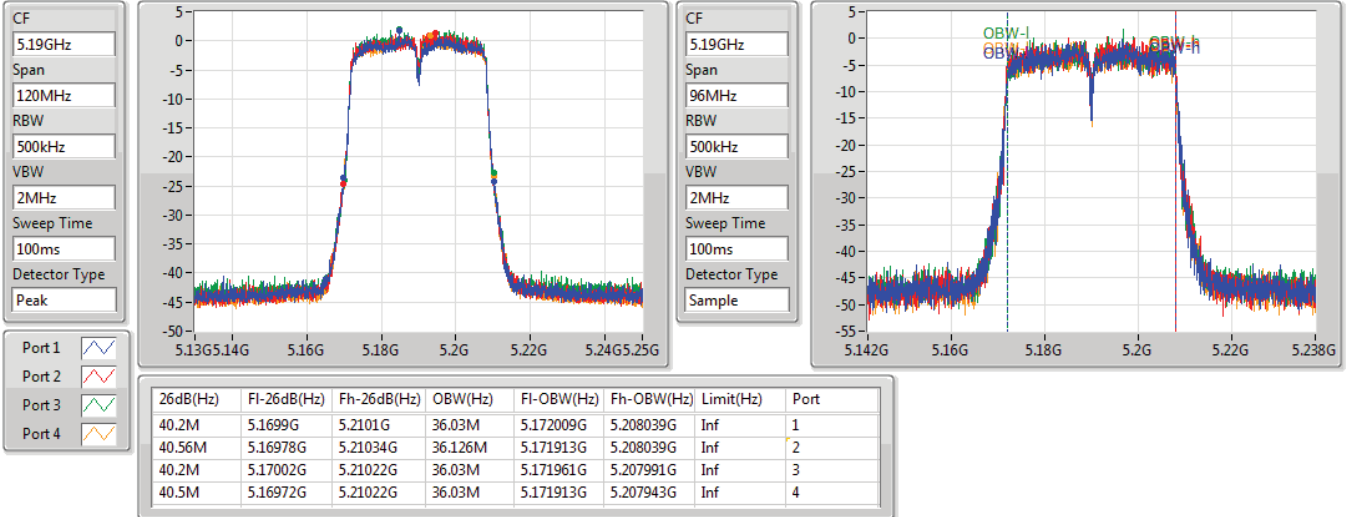


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5190MHz

10/04/2020

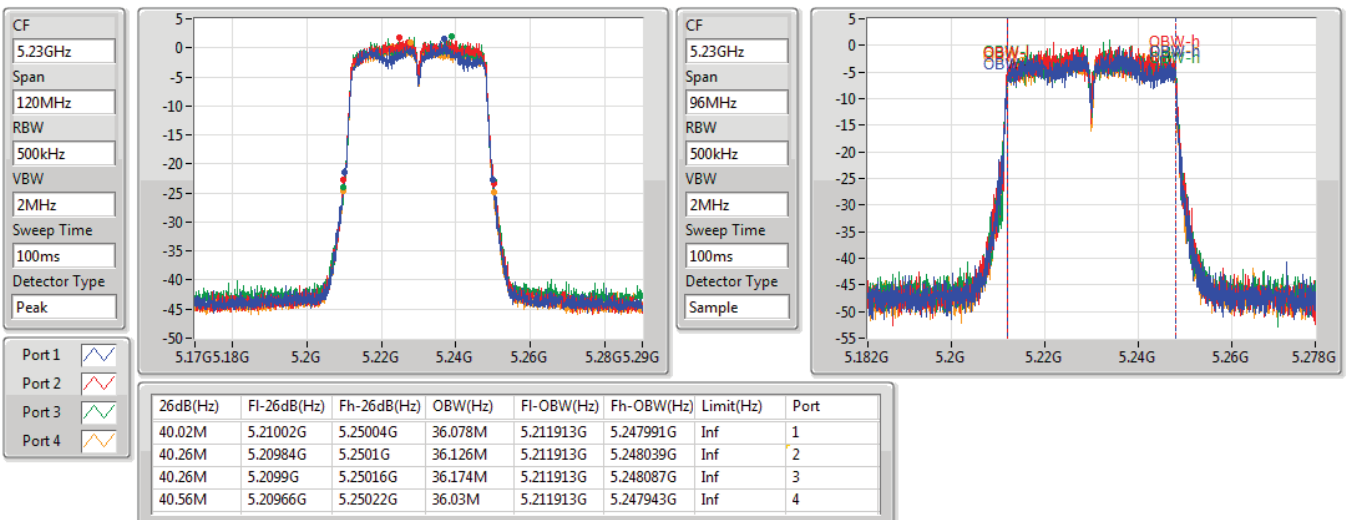


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5230MHz

10/04/2020



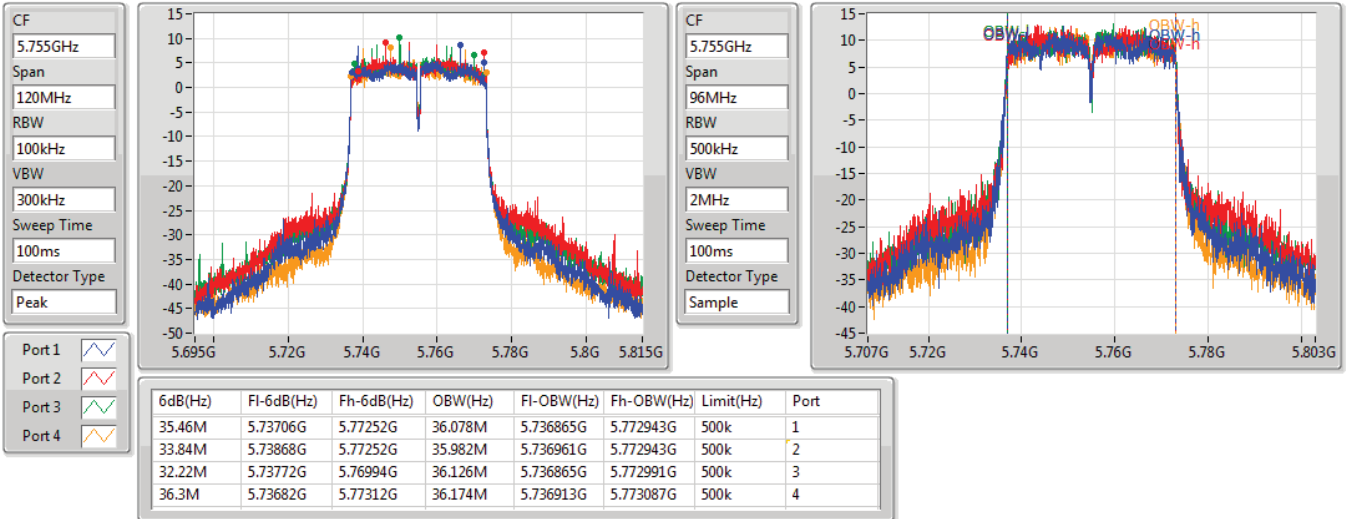


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5755MHz

03/04/2020

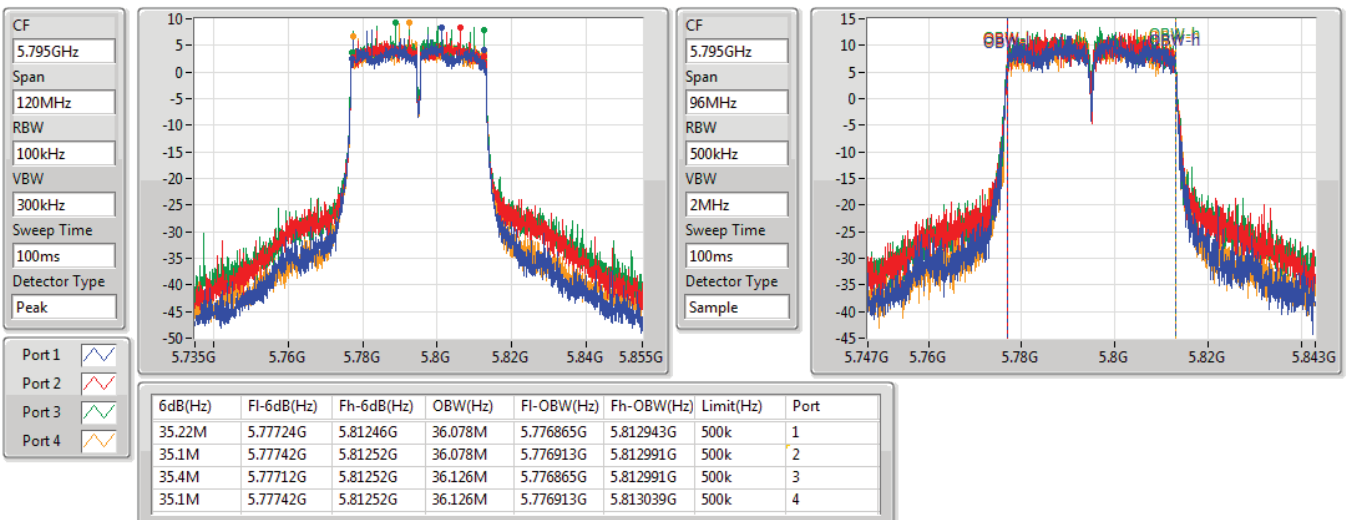


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

03/04/2020

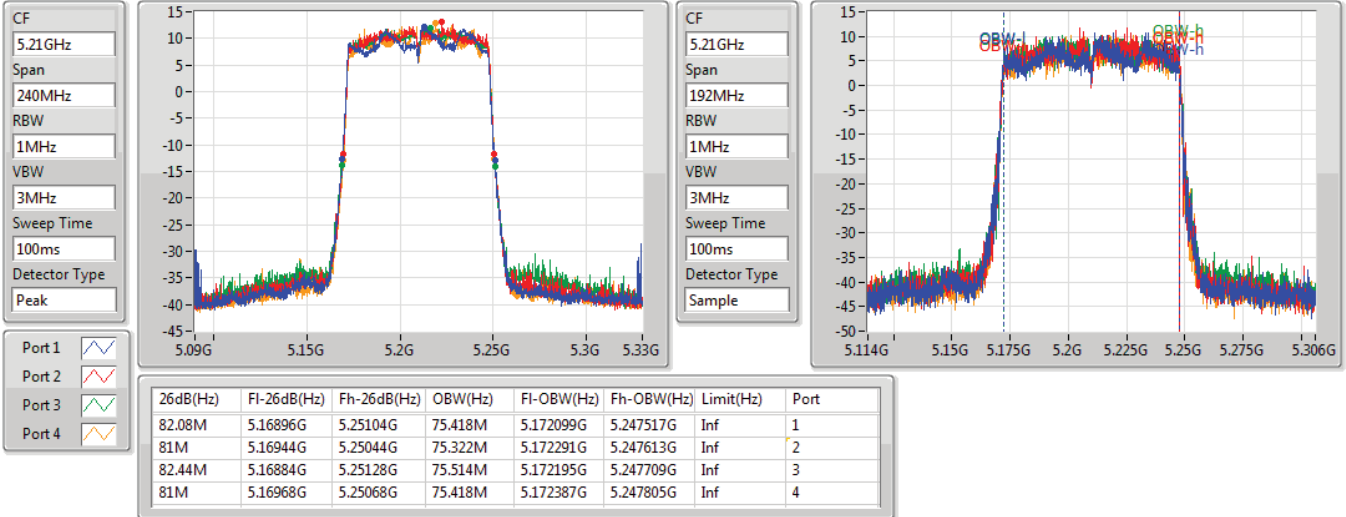


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5210MHz

03/04/2020

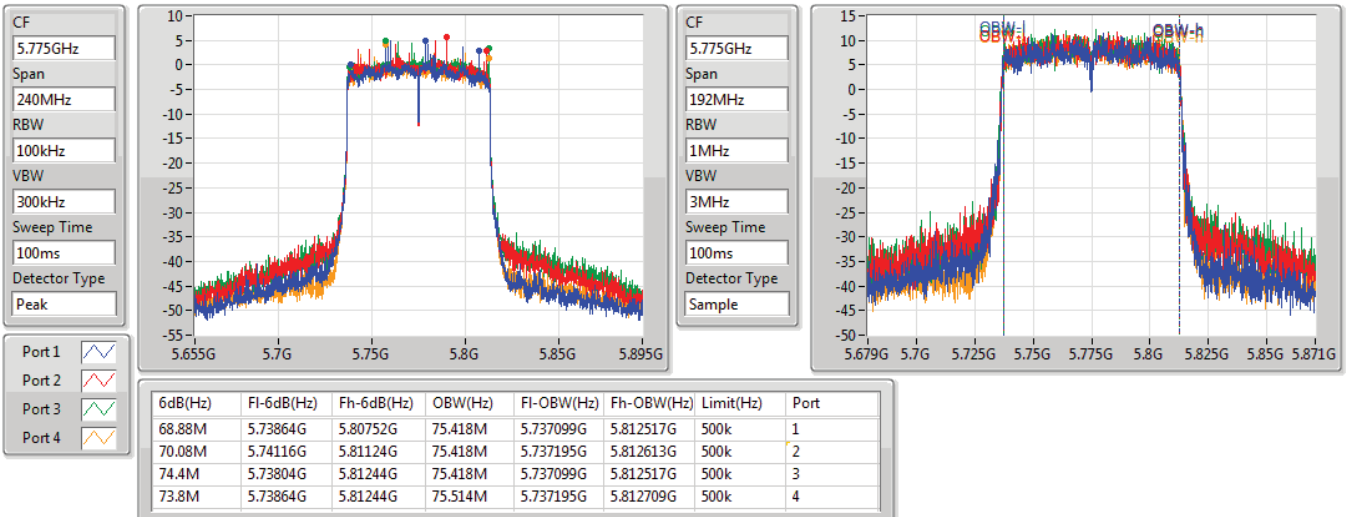


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5775MHz

03/04/2020



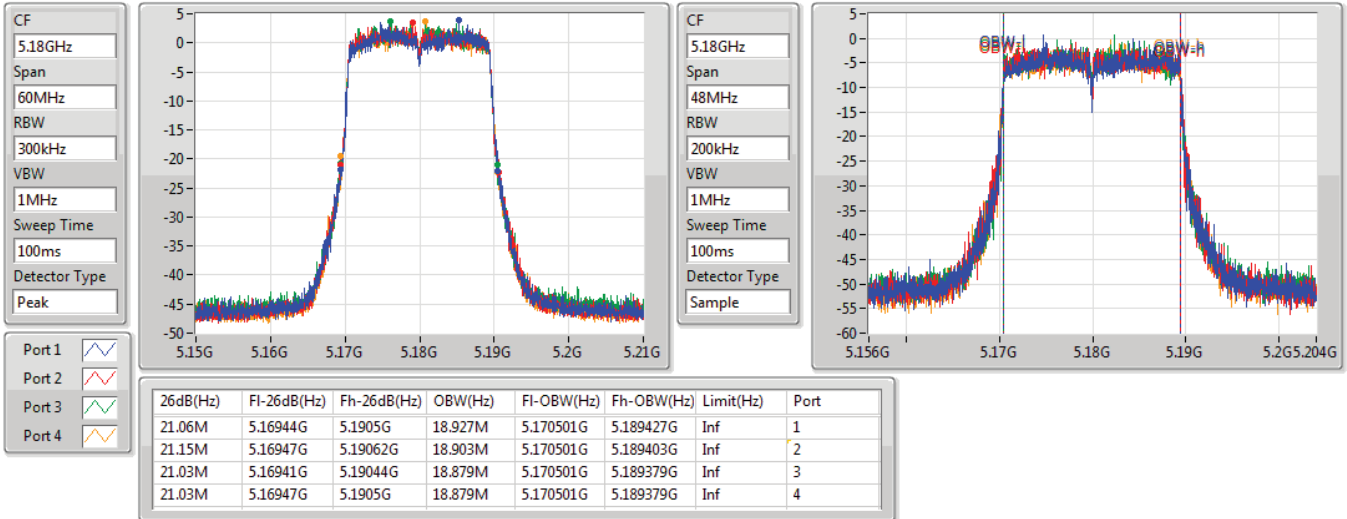


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

10/04/2020

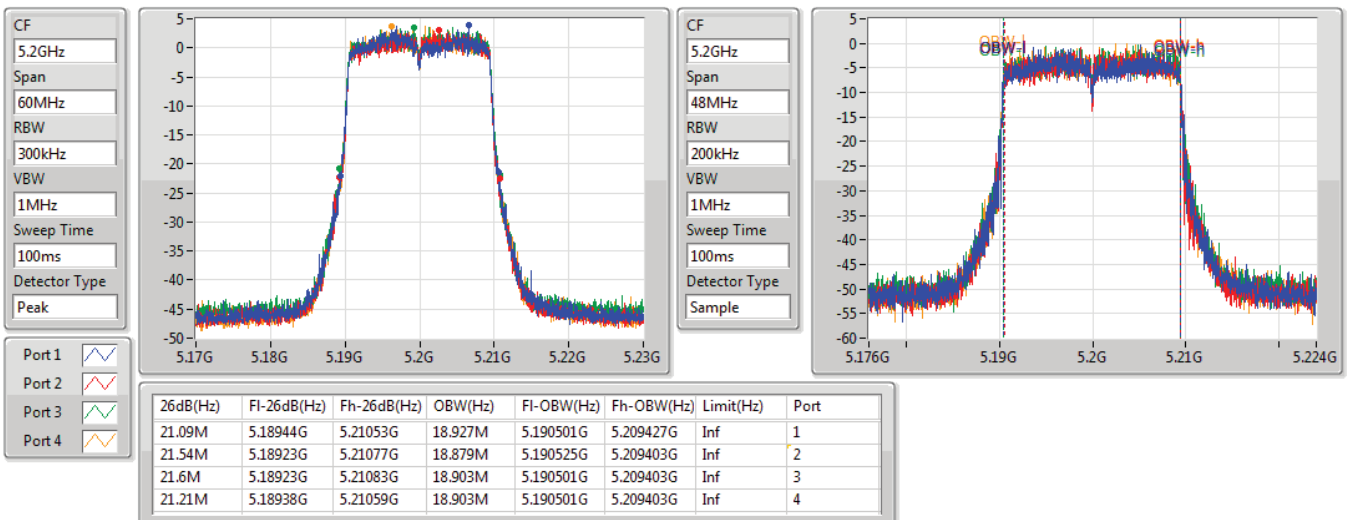


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

10/04/2020



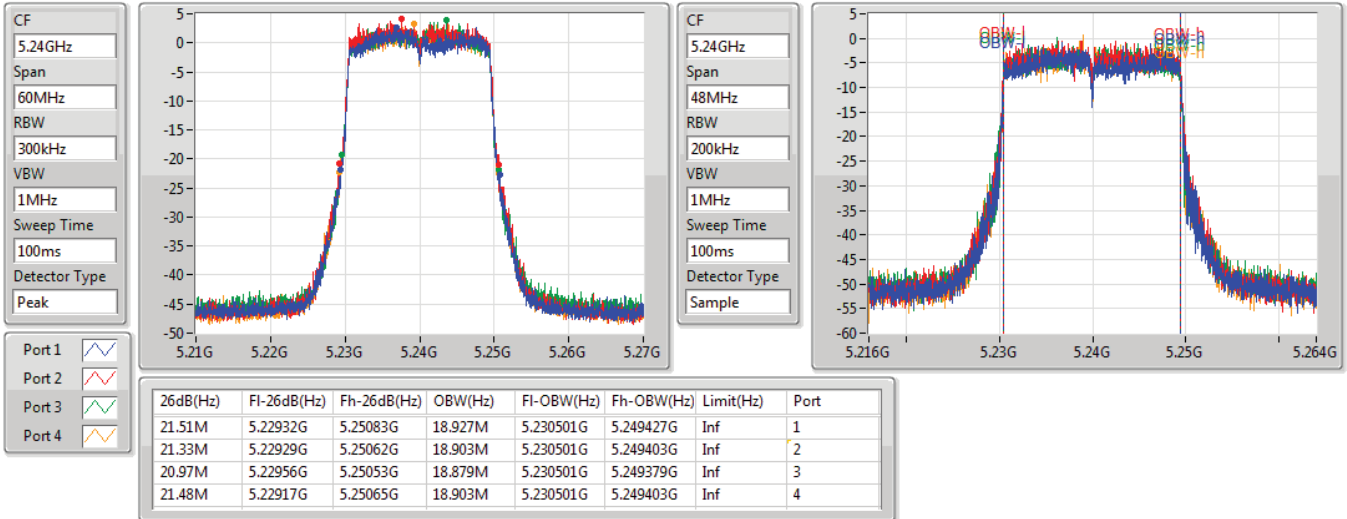


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

10/04/2020

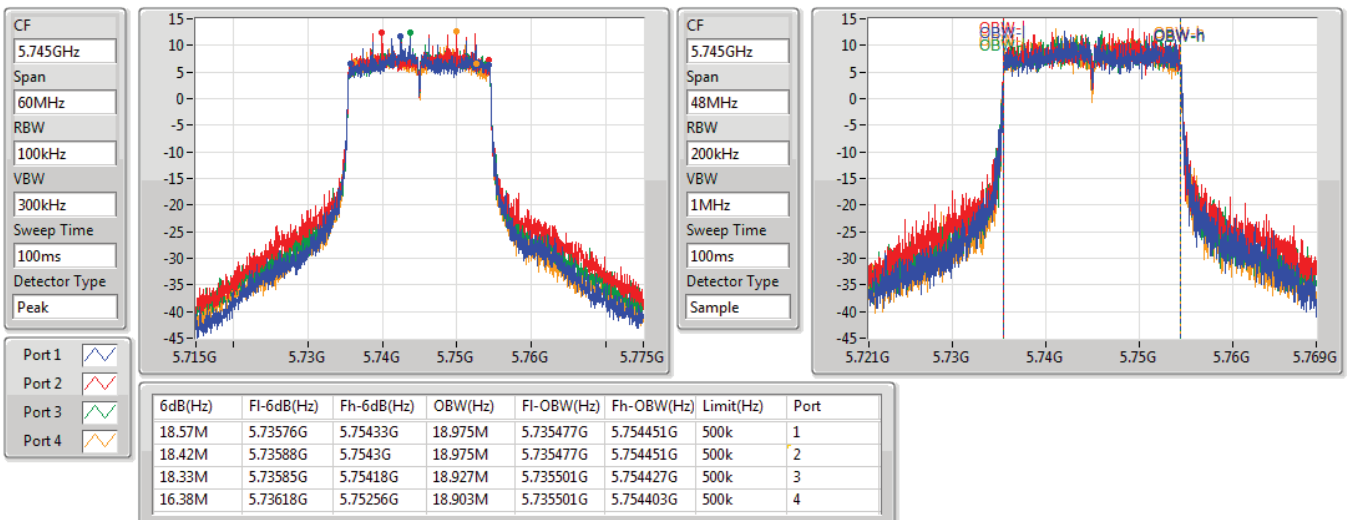


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

03/04/2020



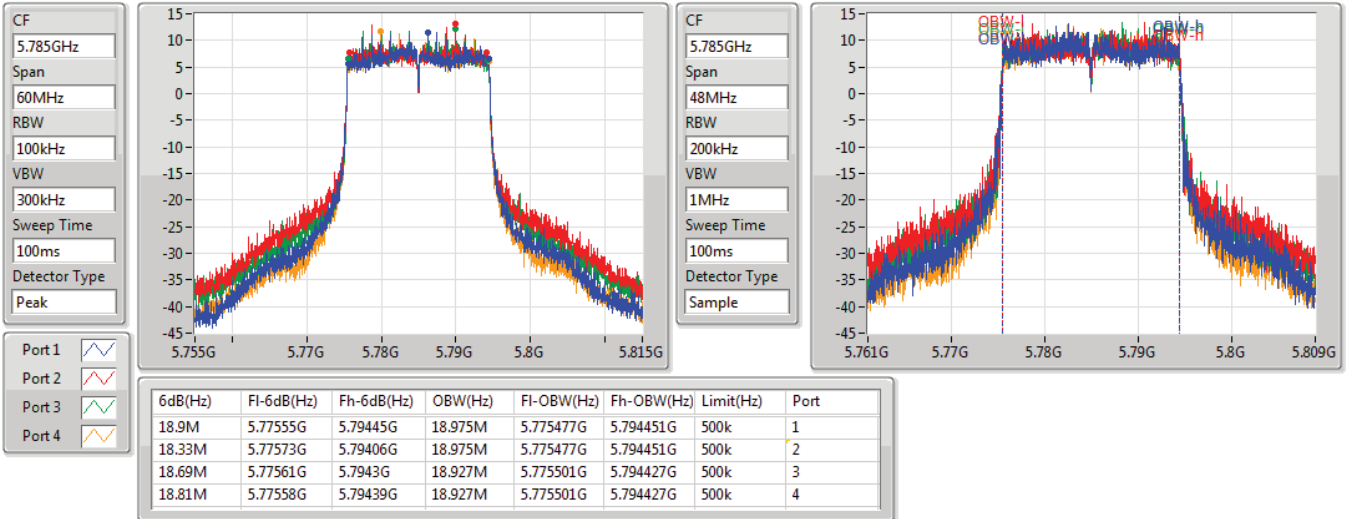


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

03/04/2020

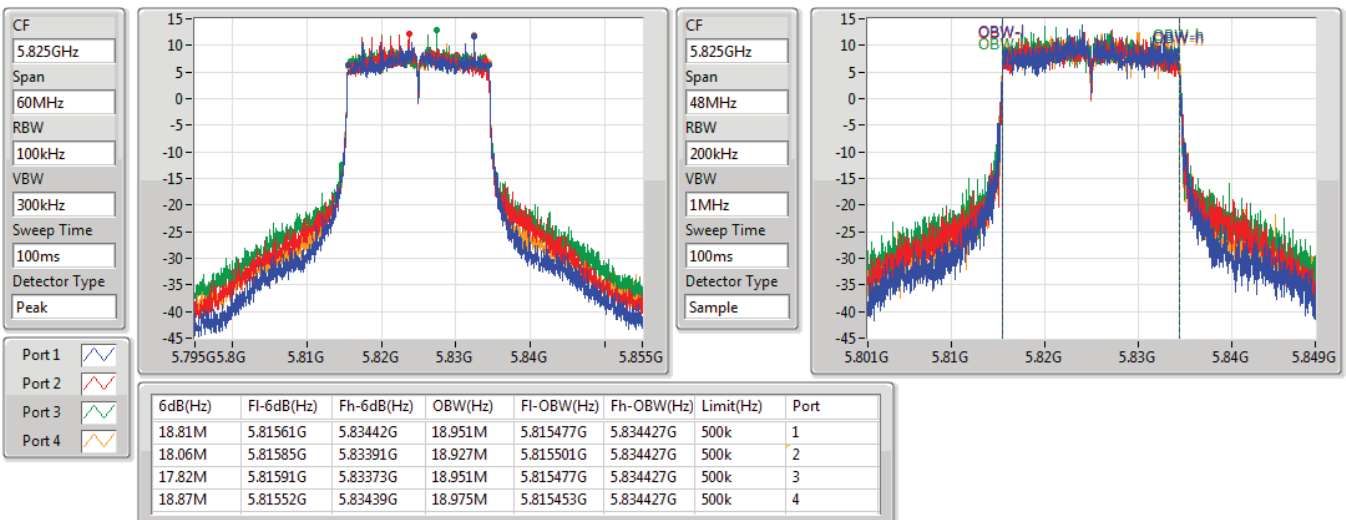


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

03/04/2020



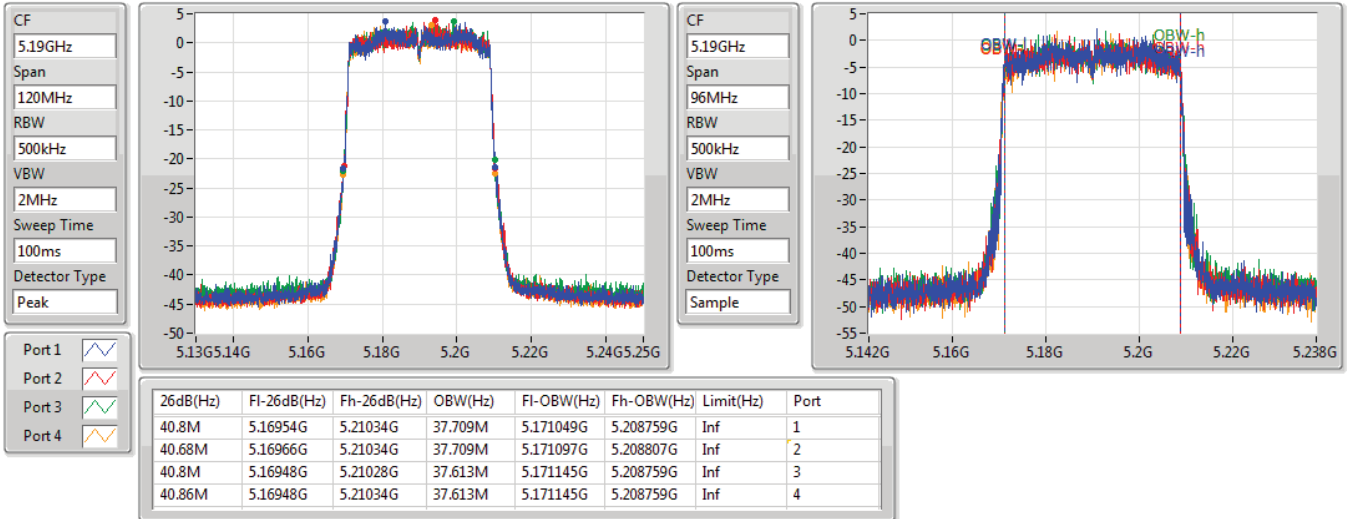


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

10/04/2020

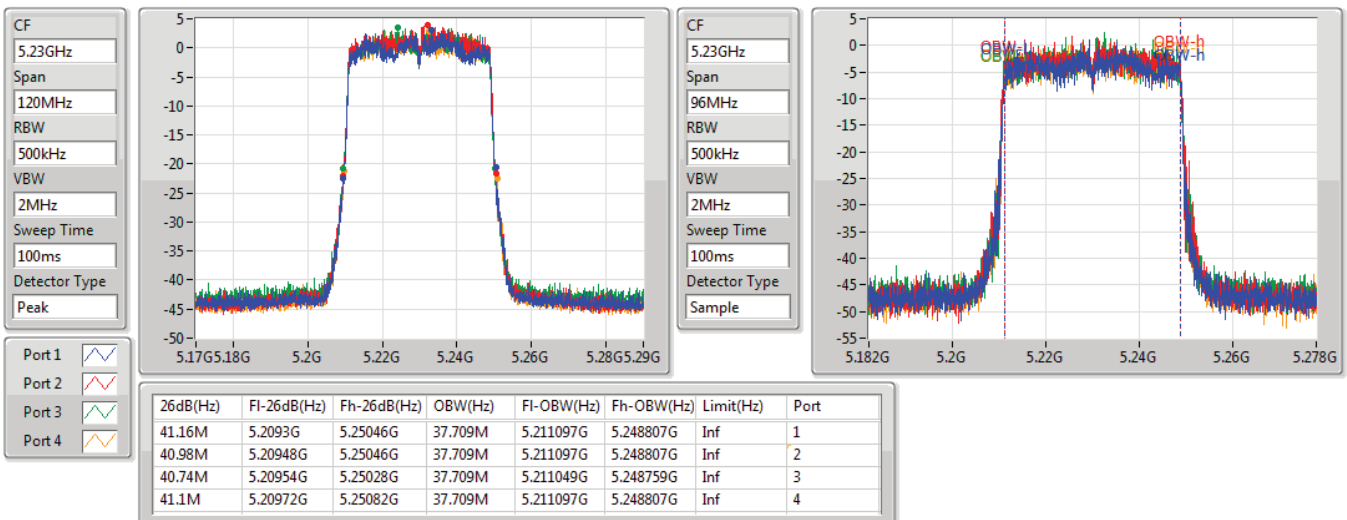


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

10/04/2020



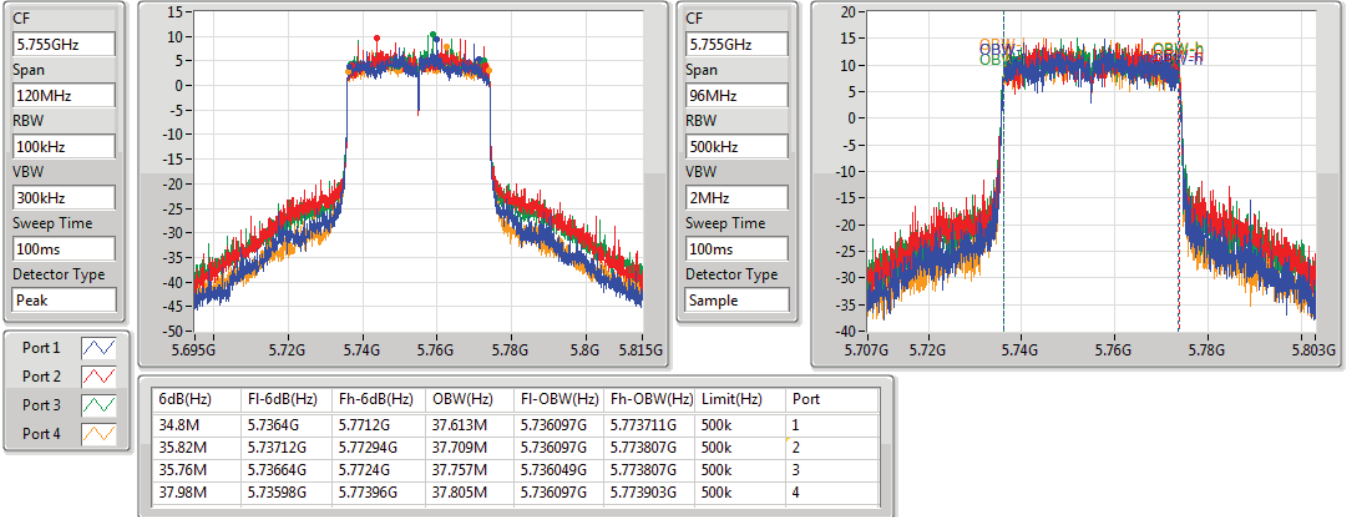


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

03/04/2020

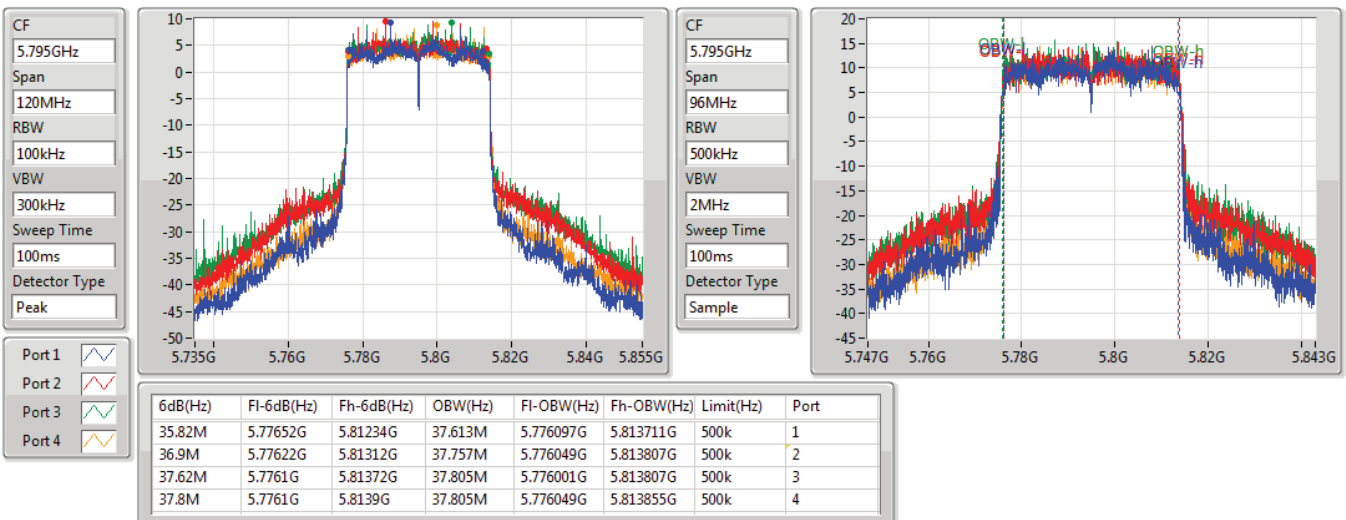


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

03/04/2020



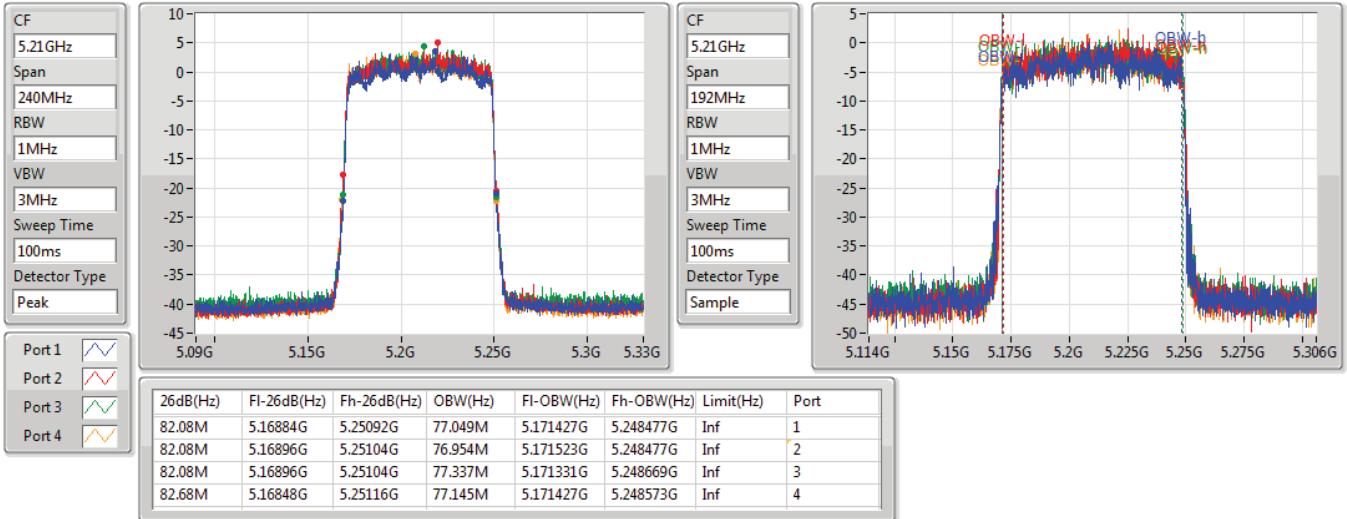


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

10/04/2020

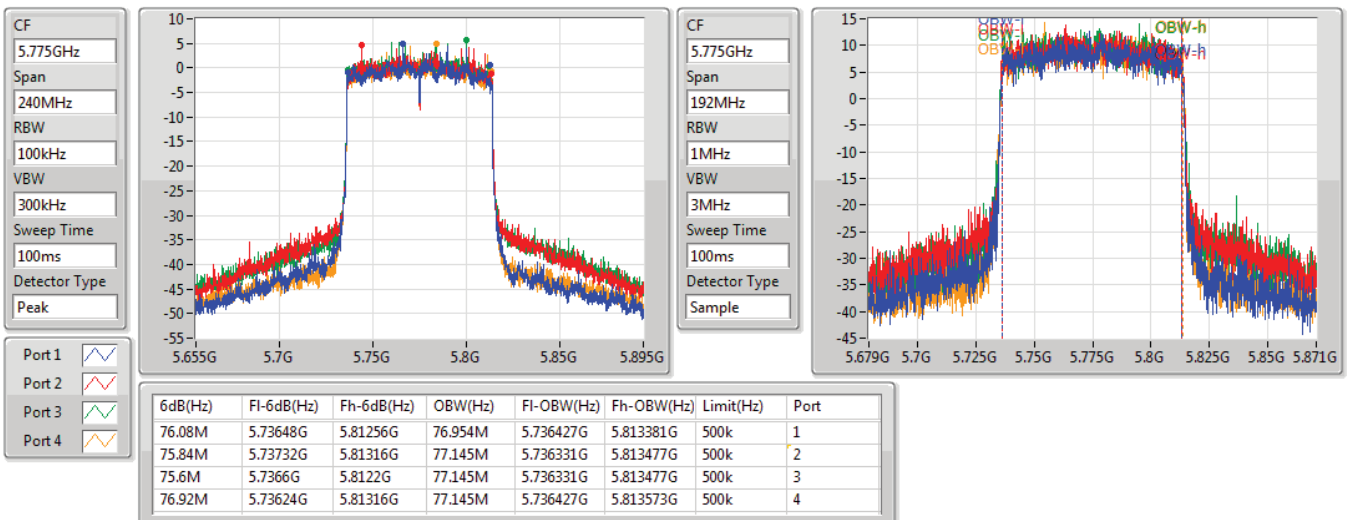


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

03/04/2020



**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	25.08M	16.648M	16M6D1D	23.73M	16.576M
802.11ac VHT20_Nss1,(MCS0)_2TX	28.65M	17.847M	17M8D1D	25.14M	17.799M
802.11ac VHT40_Nss1,(MCS0)_2TX	82.02M	39.052M	39M1D1D	45.06M	36.27M
802.11ac VHT80_Nss1,(MCS0)_2TX	89.88M	75.898M	75M9D1D	89.28M	75.898M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	21.925M	21M9D1D	16.02M	18.399M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.55M	23.1M	23M1D1D	17.13M	18.975M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.3M	56.9M	56M9D1D	35.64M	51.094M
802.11ac VHT80_Nss1,(MCS0)_2TX	75M	97.103M	97M1D1D	73.08M	88.564M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	24.72M	16.648M	23.73M	16.576M
5200MHz	Pass	Inf	24.81M	16.576M	23.91M	16.576M
5240MHz	Pass	Inf	25.08M	16.576M	24.09M	16.6M
5745MHz	Pass	500k	16.26M	21.925M	16.32M	18.399M
5785MHz	Pass	500k	16.29M	21.493M	16.29M	18.687M
5825MHz	Pass	500k	16.02M	20.246M	16.26M	19.262M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	27.45M	17.823M	25.14M	17.799M
5200MHz	Pass	Inf	28.47M	17.847M	25.14M	17.799M
5240MHz	Pass	Inf	28.65M	17.823M	26.97M	17.823M
5745MHz	Pass	500k	17.13M	23.1M	17.55M	19.094M
5785MHz	Pass	500k	17.16M	19.718M	17.52M	18.975M
5825MHz	Pass	500k	17.52M	19.814M	17.19M	19.958M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	47.28M	36.318M	45.06M	36.27M
5230MHz	Pass	Inf	81M	36.846M	82.02M	39.052M
5755MHz	Pass	500k	36.24M	56.42M	36.3M	51.19M
5795MHz	Pass	500k	35.64M	56.9M	35.82M	51.094M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	89.28M	75.898M	89.88M	75.898M
5775MHz	Pass	500k	73.08M	97.103M	75M	88.564M

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

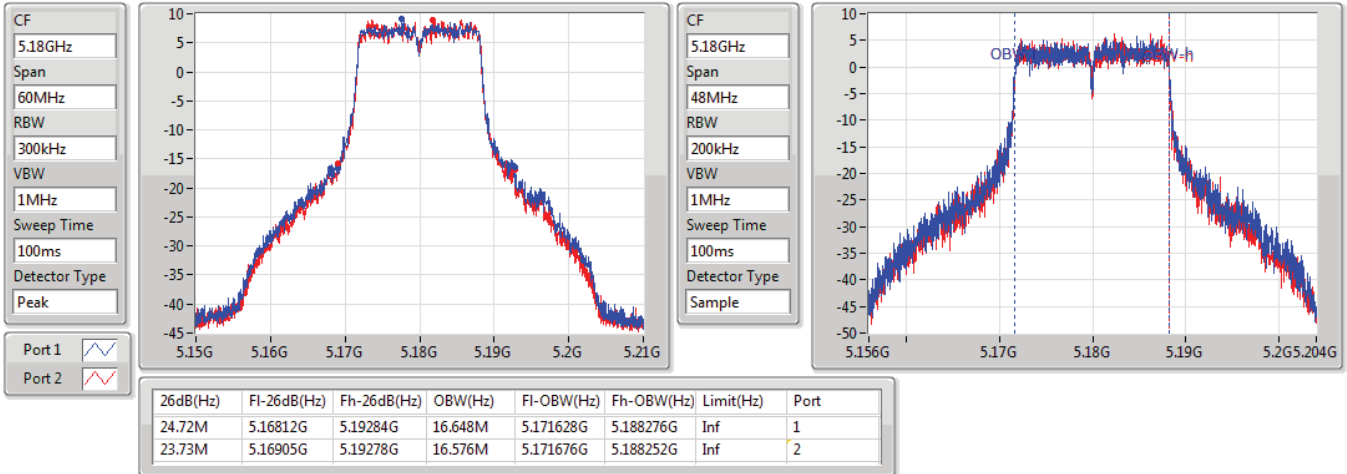
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

02/04/2020

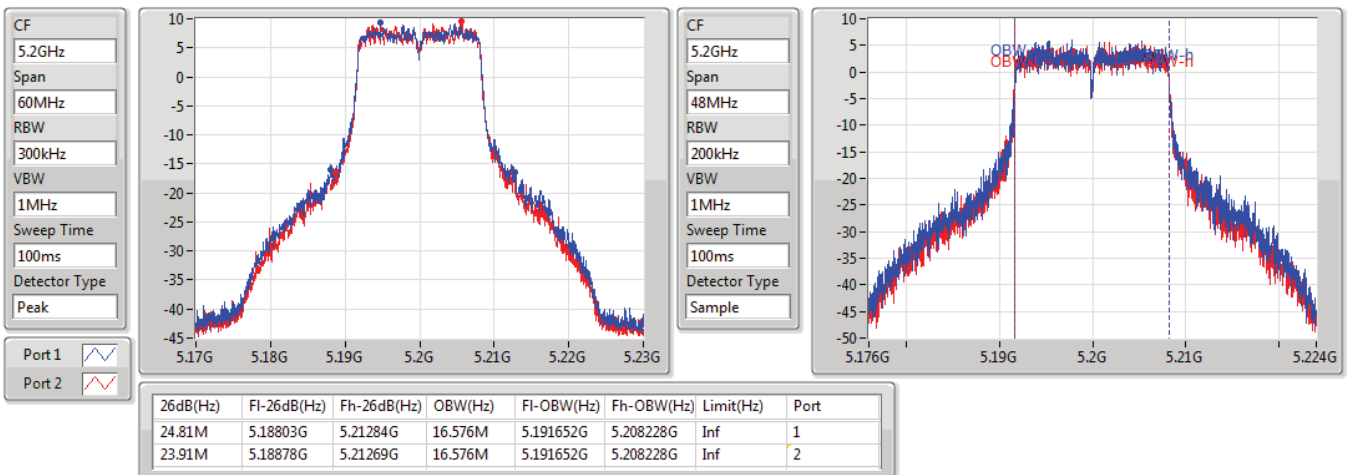


802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

02/04/2020

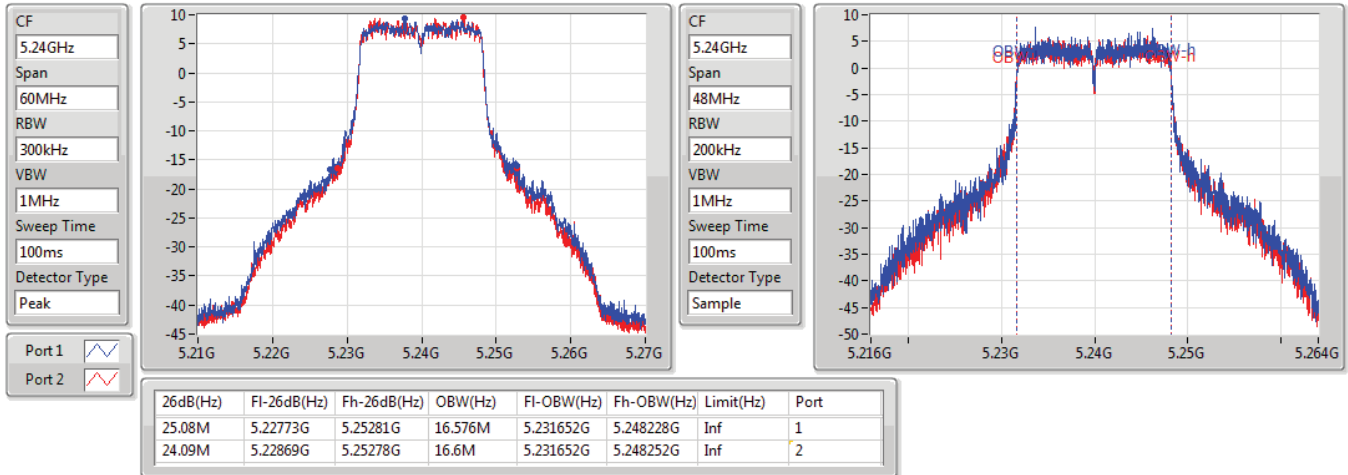


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

02/04/2020

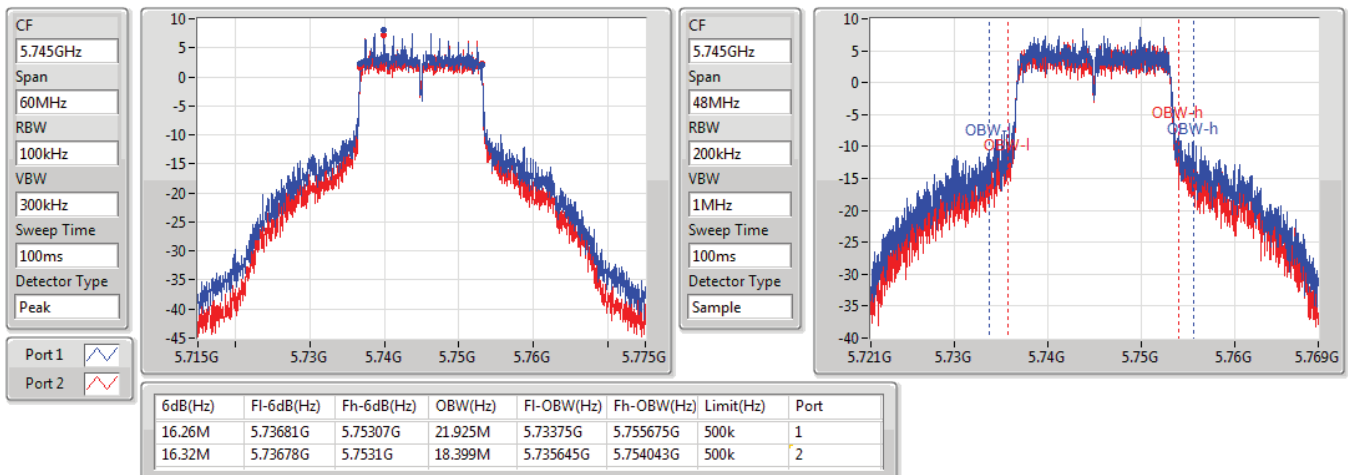


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

02/04/2020

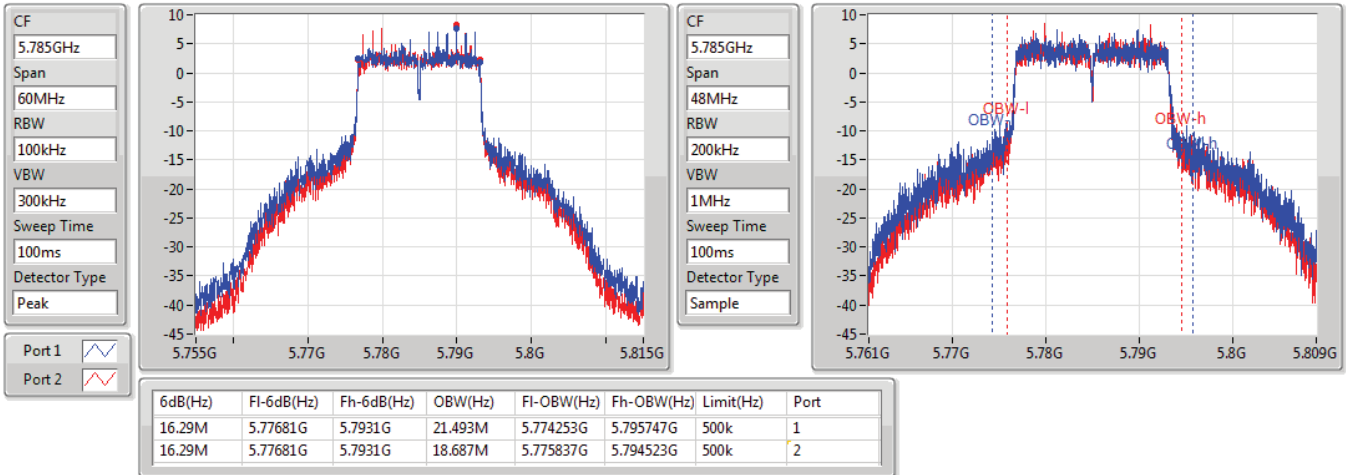


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

02/04/2020

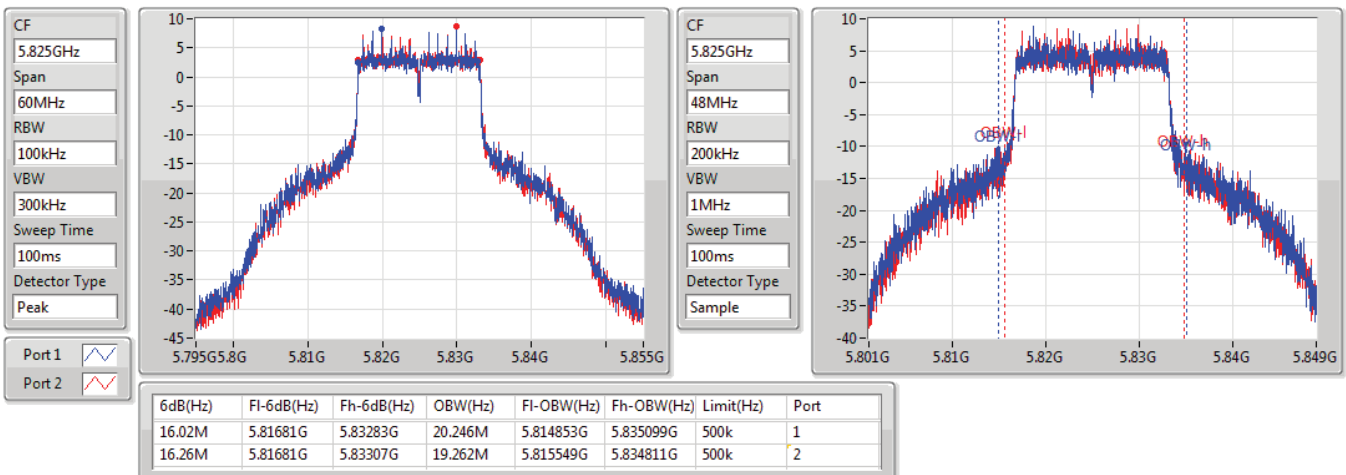


802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

02/04/2020

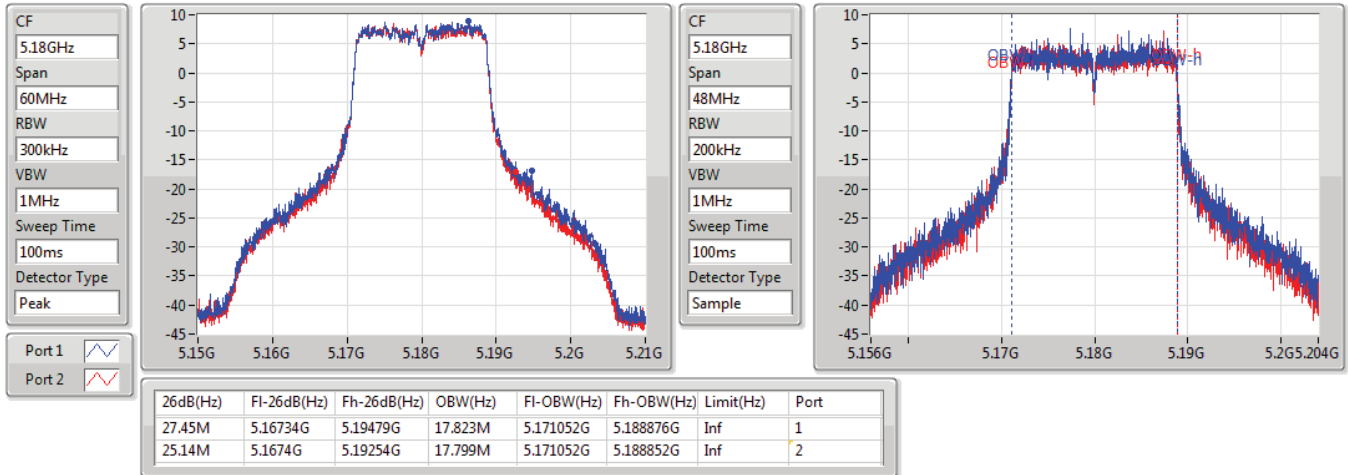


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

02/04/2020

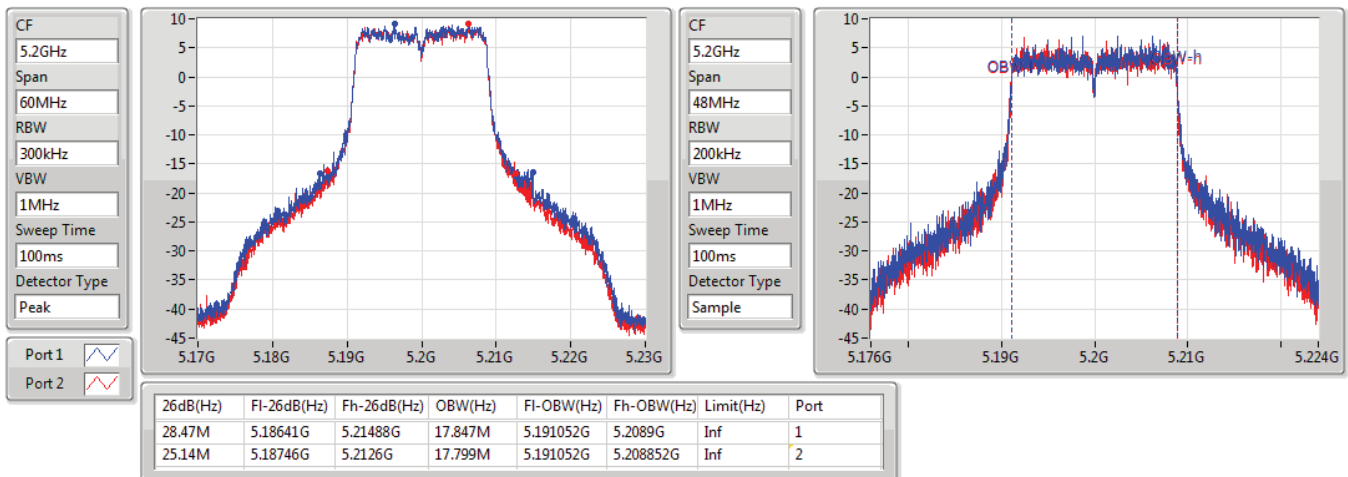


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

02/04/2020

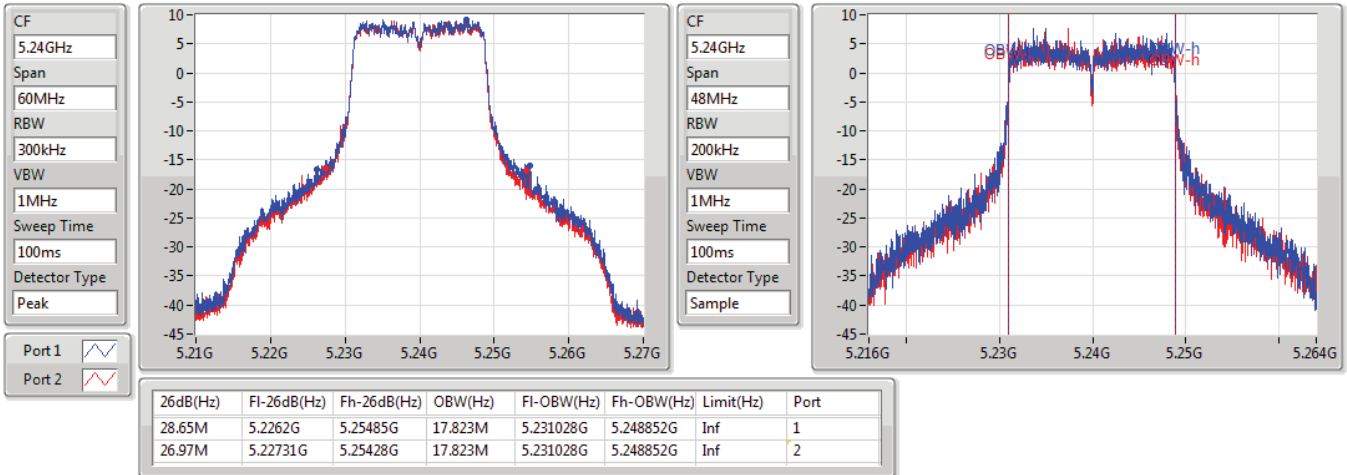


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

02/04/2020

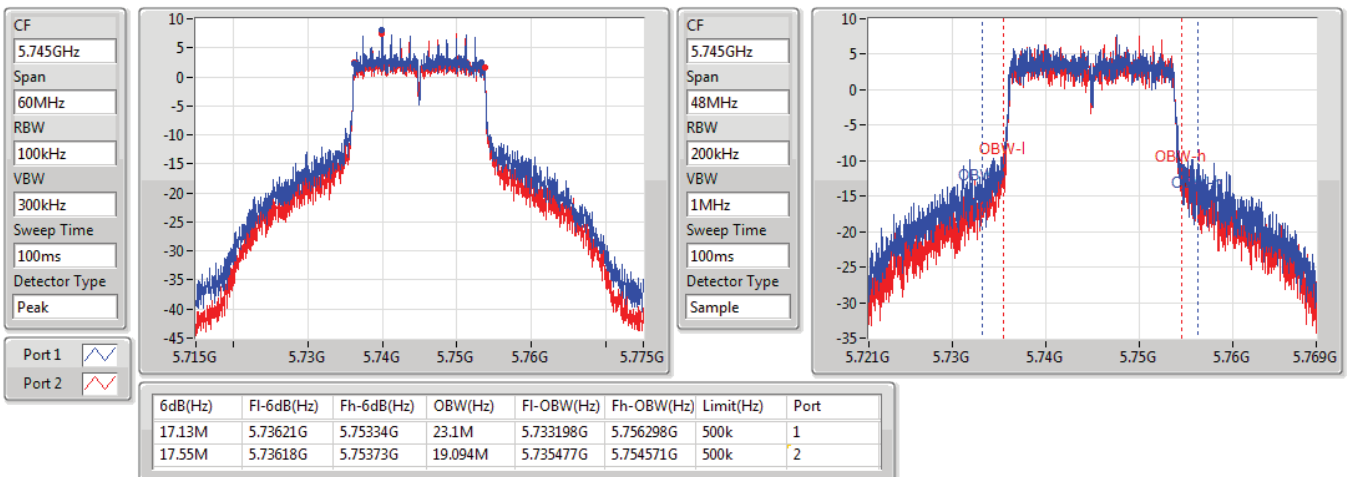


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

02/04/2020

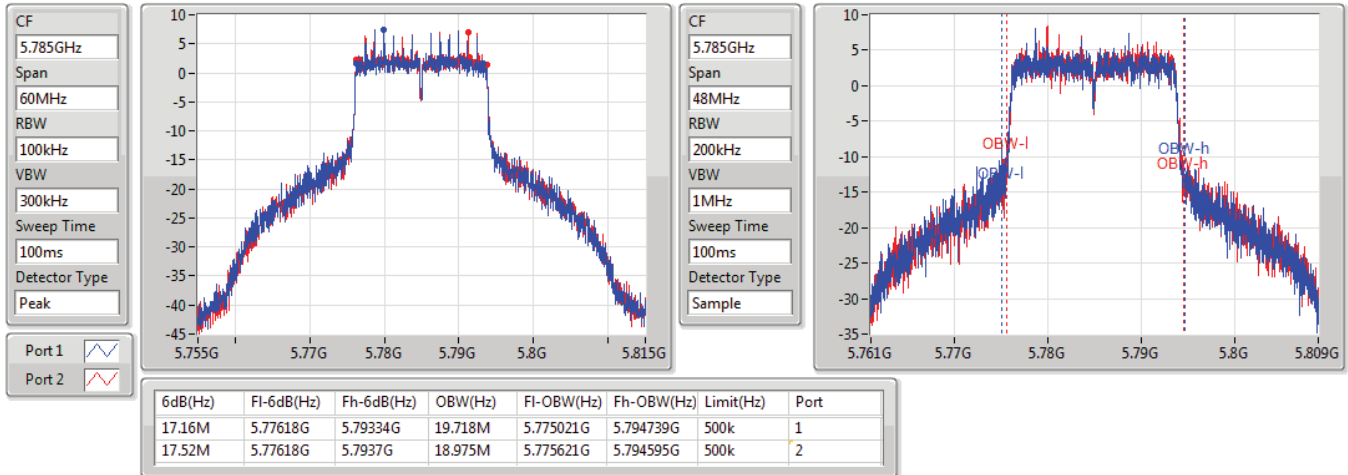


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

02/04/2020

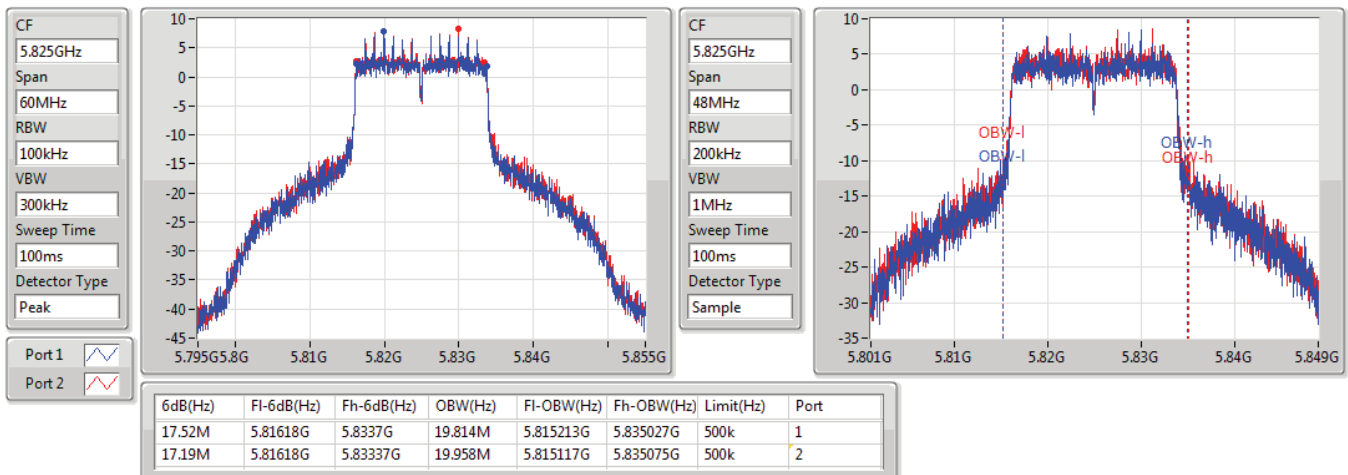


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

02/04/2020

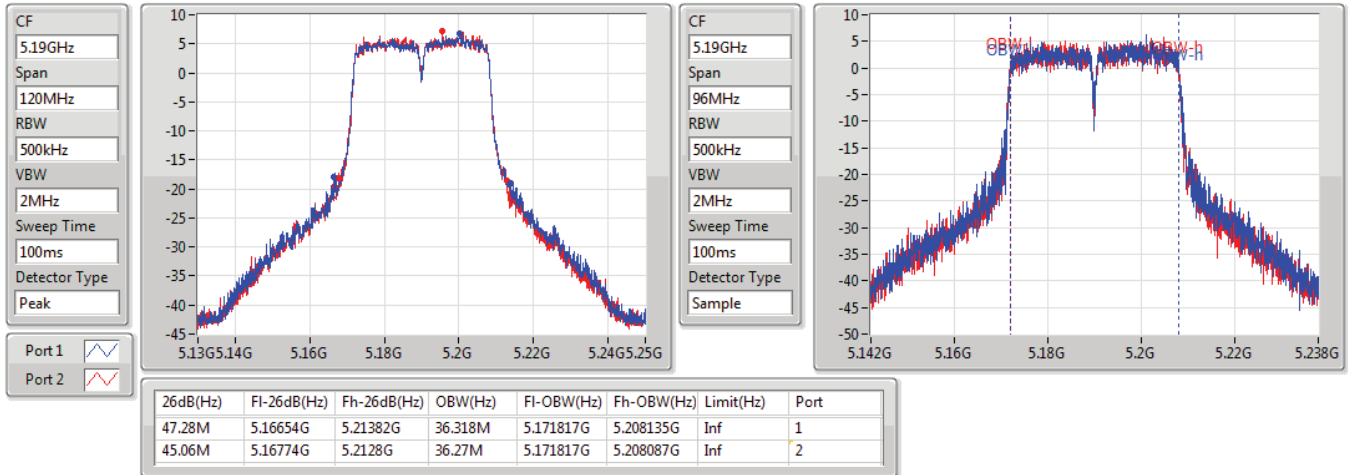


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

02/04/2020

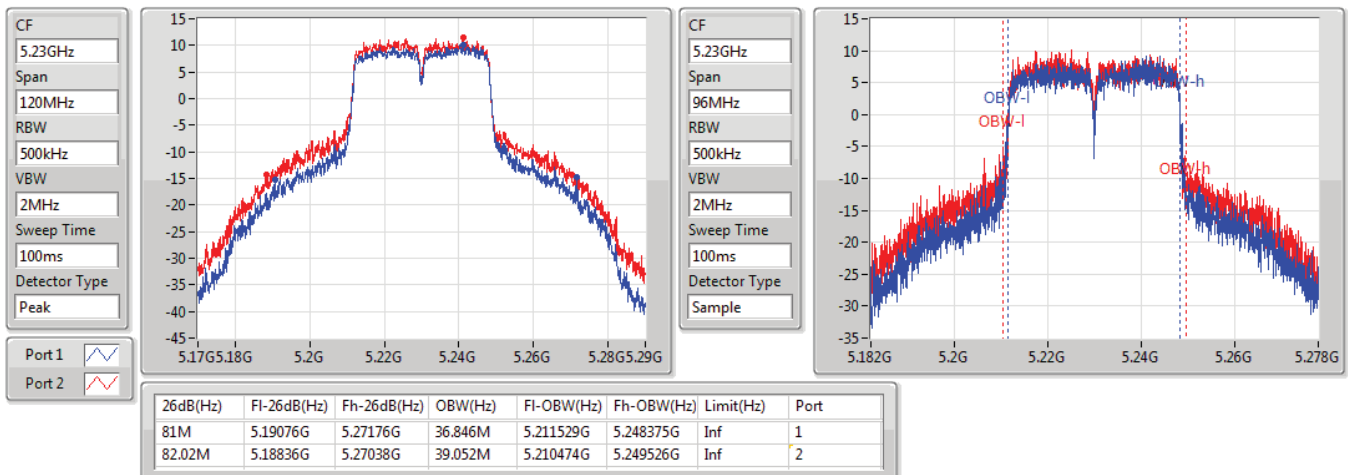


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

02/04/2020

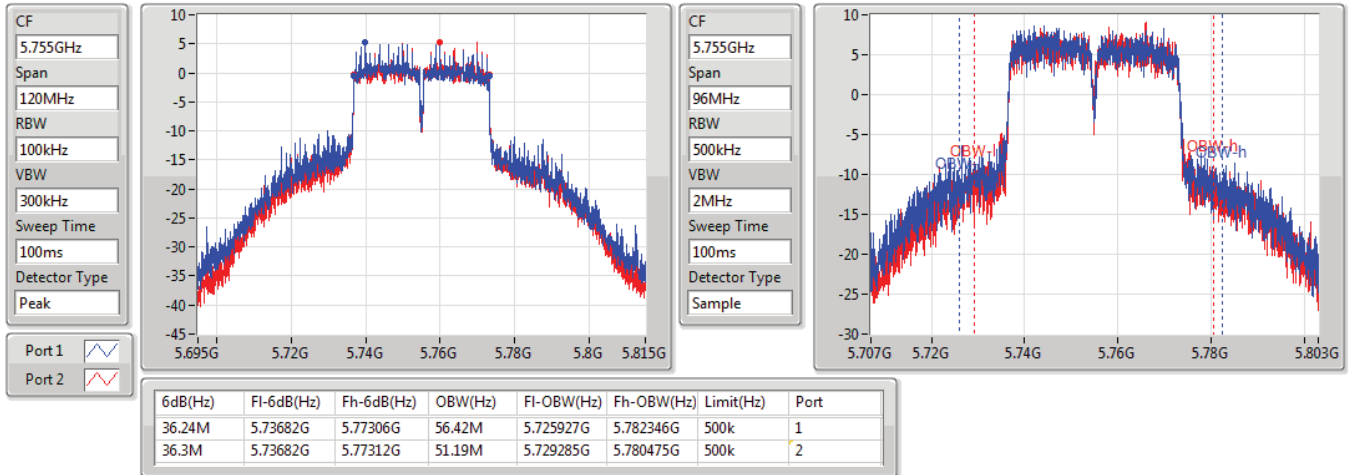


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

02/04/2020

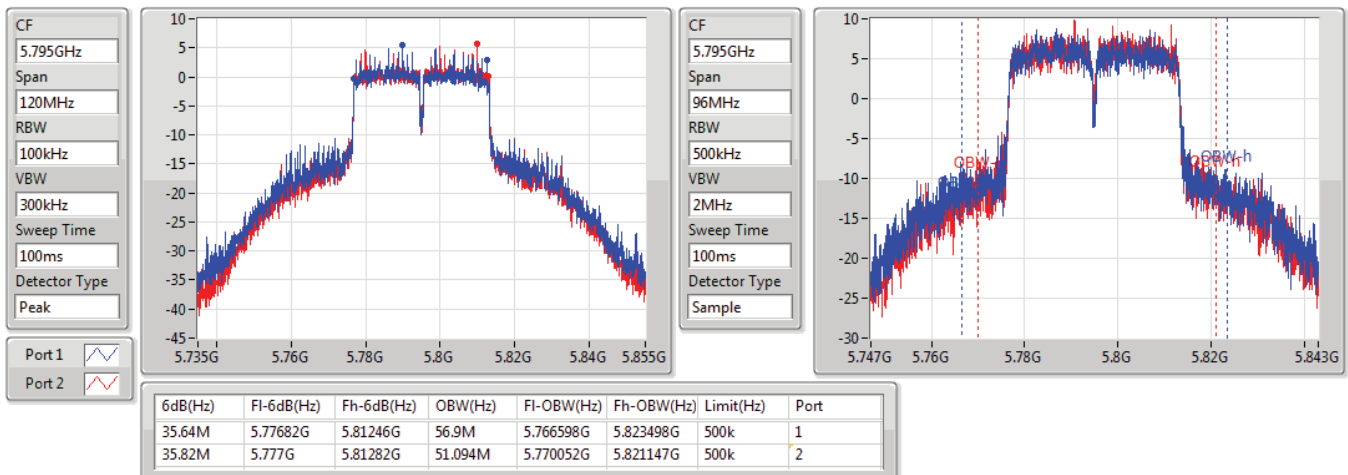


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

02/04/2020

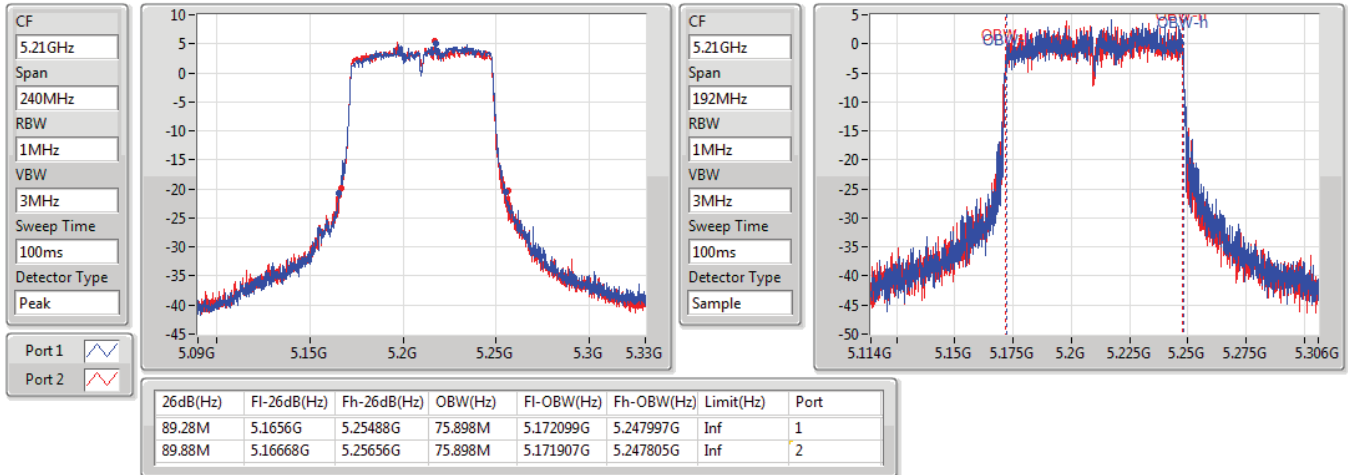


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

02/04/2020

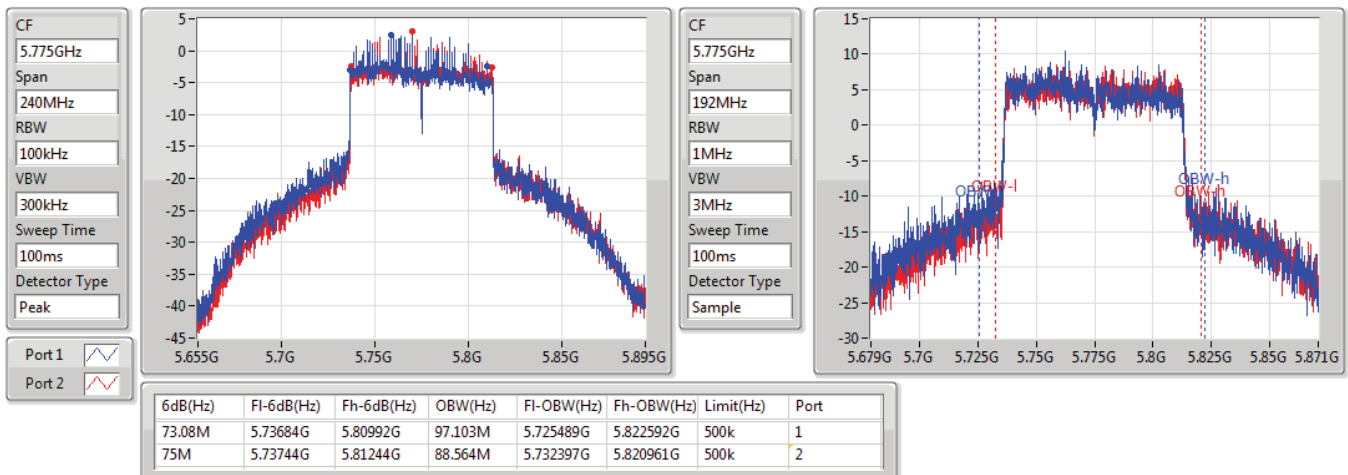


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

02/04/2020



**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	19.65M	16.408M	16M4D1D	19.17M	16.312M
802.11ac VHT20_Nss1,(MCS0)_4TX	20.79M	17.631M	17M6D1D	20.28M	17.559M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.56M	36.126M	36M1D1D	39.66M	36.03M
802.11ac VHT80_Nss1,(MCS0)_4TX	82.56M	75.514M	75M5D1D	81.12M	75.418M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.84M	18.927M	18M9D1D	21.06M	18.879M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.22M	37.757M	37M8D1D	40.62M	37.661M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.56M	77.145M	77M1D1D	82.2M	76.954M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.32M	16.552M	16M6D1D	15.33M	16.312M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.55M	17.655M	17M7D1D	14.61M	17.535M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.3M	36.318M	36M3D1D	33.72M	35.982M
802.11ac VHT80_Nss1,(MCS0)_4TX	75.6M	75.802M	75M8D1D	71.16M	75.226M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.9M	19.094M	19M1D1D	15.27M	18.807M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.92M	37.997M	38M0D1D	35.34M	37.613M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.64M	77.529M	77M5D1D	67.8M	76.954M

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	19.2M	16.312M	19.53M	16.336M	19.5M	16.36M	19.47M	16.408M
5200MHz	Pass	Inf	19.65M	16.408M	19.44M	16.36M	19.56M	16.384M	19.56M	16.408M
5240MHz	Pass	Inf	19.17M	16.36M	19.41M	16.384M	19.47M	16.36M	19.56M	16.384M
5745MHz	Pass	500k	15.69M	16.432M	15.48M	16.36M	16.02M	16.432M	16.29M	16.552M
5785MHz	Pass	500k	15.72M	16.36M	15.63M	16.408M	16.02M	16.432M	16.32M	16.528M
5825MHz	Pass	500k	15.33M	16.312M	15.63M	16.432M	16.02M	16.456M	16.32M	16.504M
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.79M	17.583M	20.61M	17.583M	20.28M	17.559M	20.73M	17.559M
5200MHz	Pass	Inf	20.55M	17.607M	20.61M	17.607M	20.43M	17.559M	20.58M	17.583M
5240MHz	Pass	Inf	20.64M	17.583M	20.64M	17.583M	20.73M	17.631M	20.52M	17.607M
5745MHz	Pass	500k	16.29M	17.607M	17.55M	17.631M	16.65M	17.583M	16.53M	17.607M
5785MHz	Pass	500k	16.29M	17.535M	17.55M	17.655M	15.75M	17.607M	14.61M	17.559M
5825MHz	Pass	500k	16.89M	17.535M	17.25M	17.655M	15.27M	17.583M	16.26M	17.535M
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.44M	36.078M	40.32M	36.078M	40.26M	36.126M	40.38M	36.126M
5230MHz	Pass	Inf	40.56M	36.078M	40.38M	36.126M	39.66M	36.03M	40.44M	36.126M
5755MHz	Pass	500k	34.8M	36.078M	33.72M	35.982M	33.72M	36.03M	36.3M	36.27M
5795MHz	Pass	500k	35.64M	36.078M	33.96M	36.03M	34.26M	36.174M	36.3M	36.318M
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.56M	75.418M	81.12M	75.514M	81.84M	75.418M	81.84M	75.418M
5775MHz	Pass	500k	71.28M	75.514M	71.16M	75.226M	75.12M	75.514M	75.6M	75.802M
802.11ax_HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.21M	18.927M	21.48M	18.903M	21.3M	18.927M	21.06M	18.903M
5200MHz	Pass	Inf	21.84M	18.927M	21.27M	18.903M	21.63M	18.879M	21.33M	18.903M
5240MHz	Pass	Inf	21.3M	18.927M	21.33M	18.879M	21.57M	18.927M	21.51M	18.927M
5745MHz	Pass	500k	18.54M	18.975M	17.94M	18.831M	18.84M	18.975M	18.9M	19.094M
5785MHz	Pass	500k	15.27M	18.807M	18.51M	18.951M	18.48M	18.879M	15.9M	18.879M
5825MHz	Pass	500k	18.87M	18.975M	18.63M	18.951M	18.66M	18.975M	17.73M	18.903M
802.11ax_HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.92M	37.661M	41.22M	37.661M	40.62M	37.709M	40.98M	37.757M
5230MHz	Pass	Inf	40.92M	37.709M	41.04M	37.709M	40.92M	37.661M	41.1M	37.709M
5755MHz	Pass	500k	37.5M	37.757M	35.64M	37.805M	37.56M	37.805M	37.8M	37.997M
5795MHz	Pass	500k	36.36M	37.613M	35.34M	37.709M	36.06M	37.805M	37.92M	37.901M
802.11ax_HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	76.954M	82.44M	77.049M	82.2M	77.145M	82.56M	76.954M
5775MHz	Pass	500k	72.6M	77.049M	75.72M	76.954M	67.8M	77.241M	77.64M	77.529M

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;

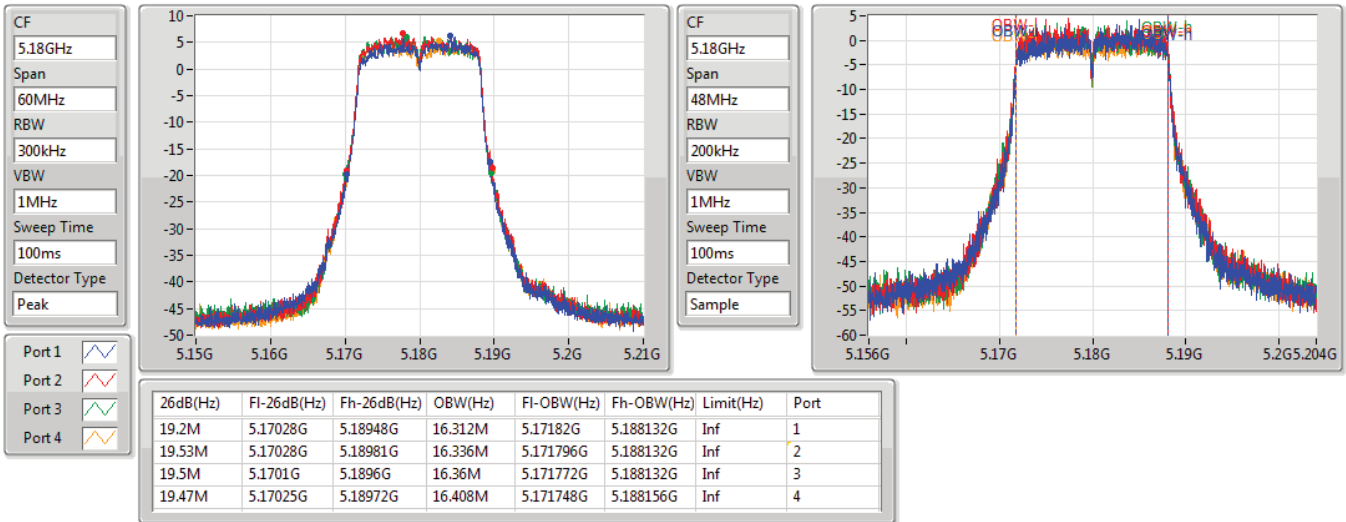


802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

11/04/2020

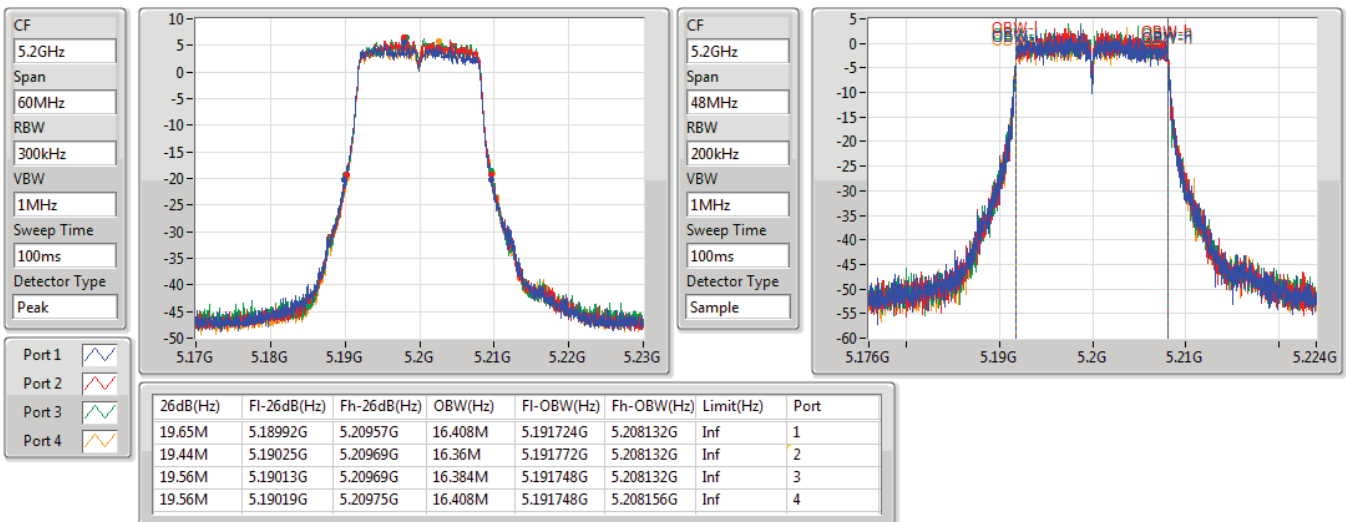


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

11/04/2020



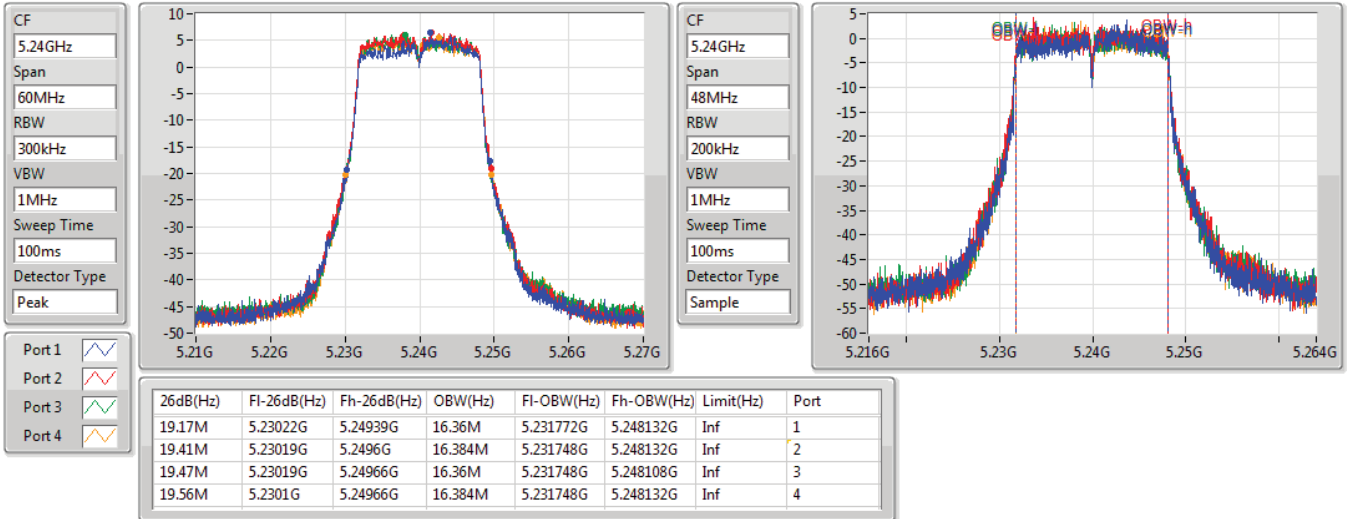


802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

11/04/2020

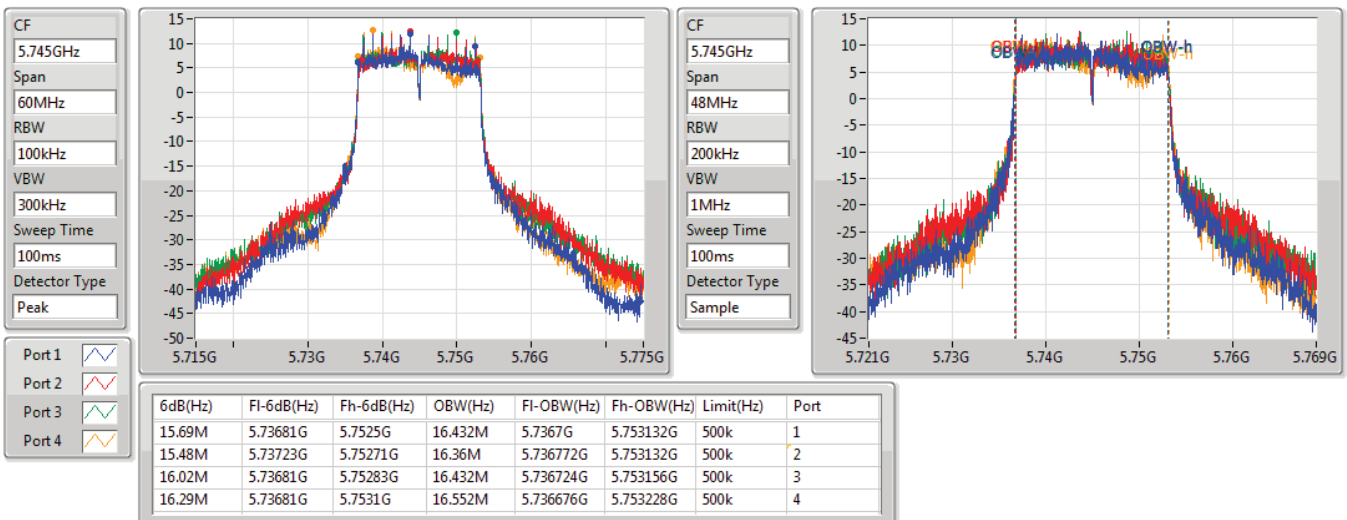


802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

05/04/2020



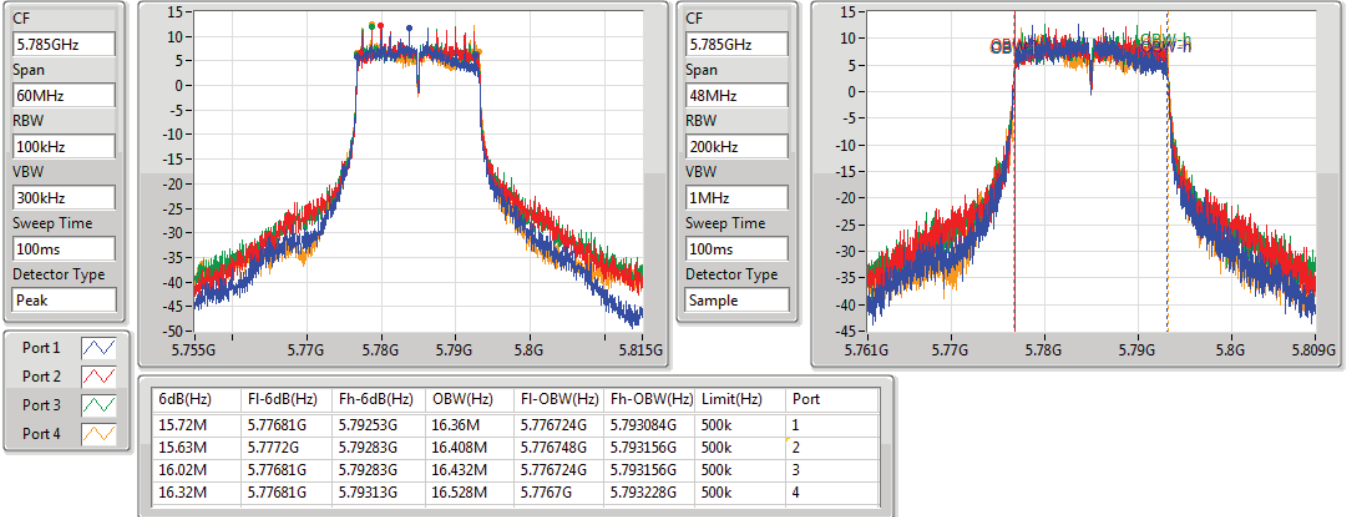


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

05/04/2020

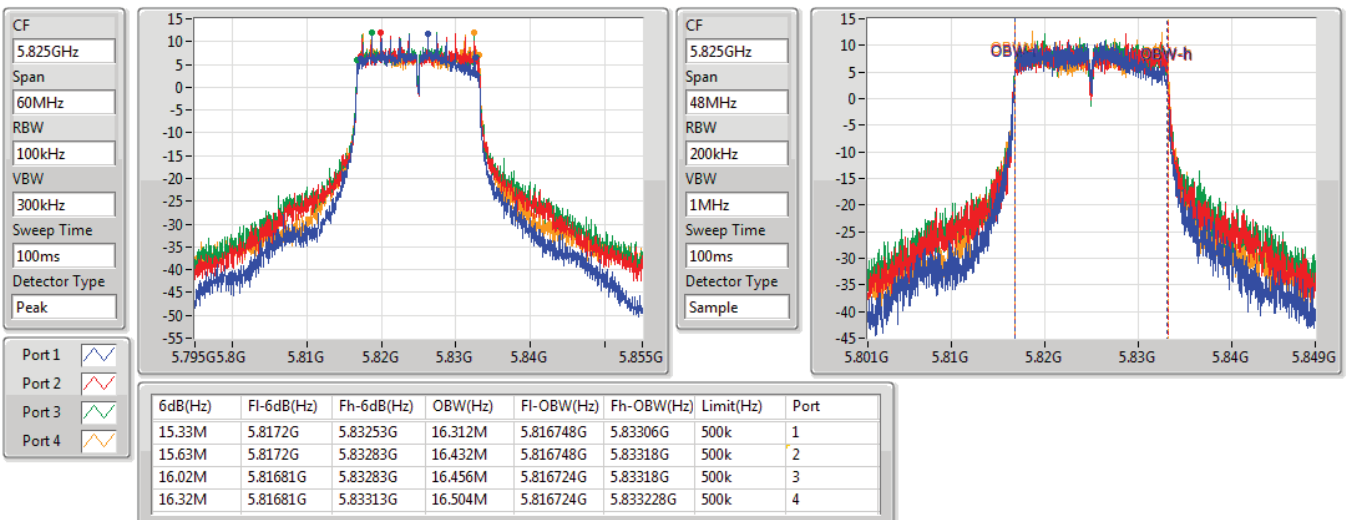


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

05/04/2020



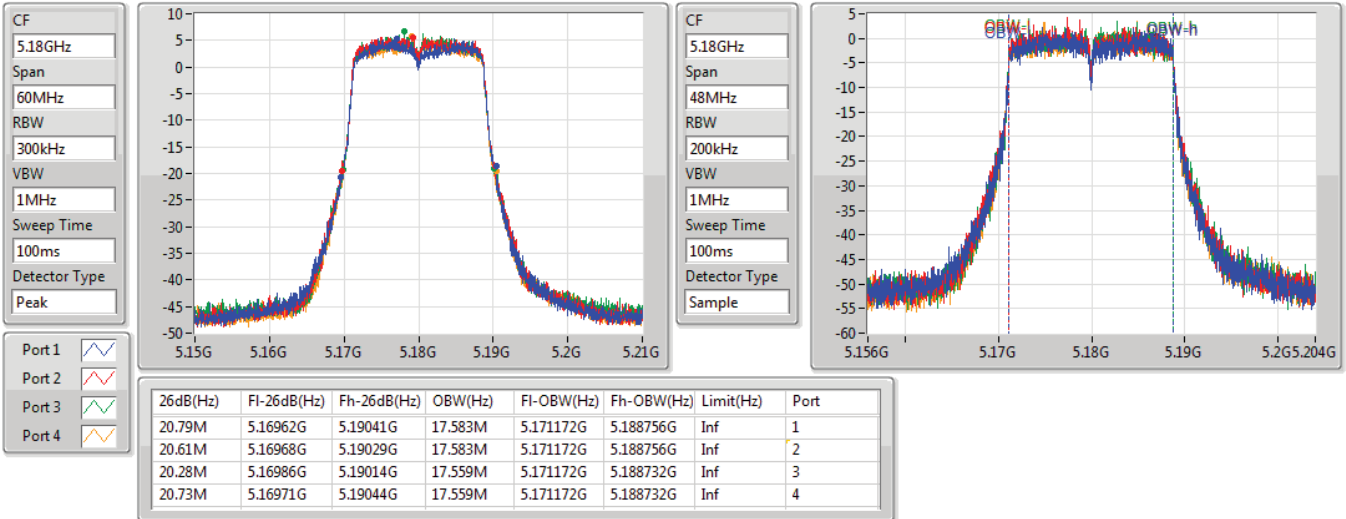


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

11/04/2020

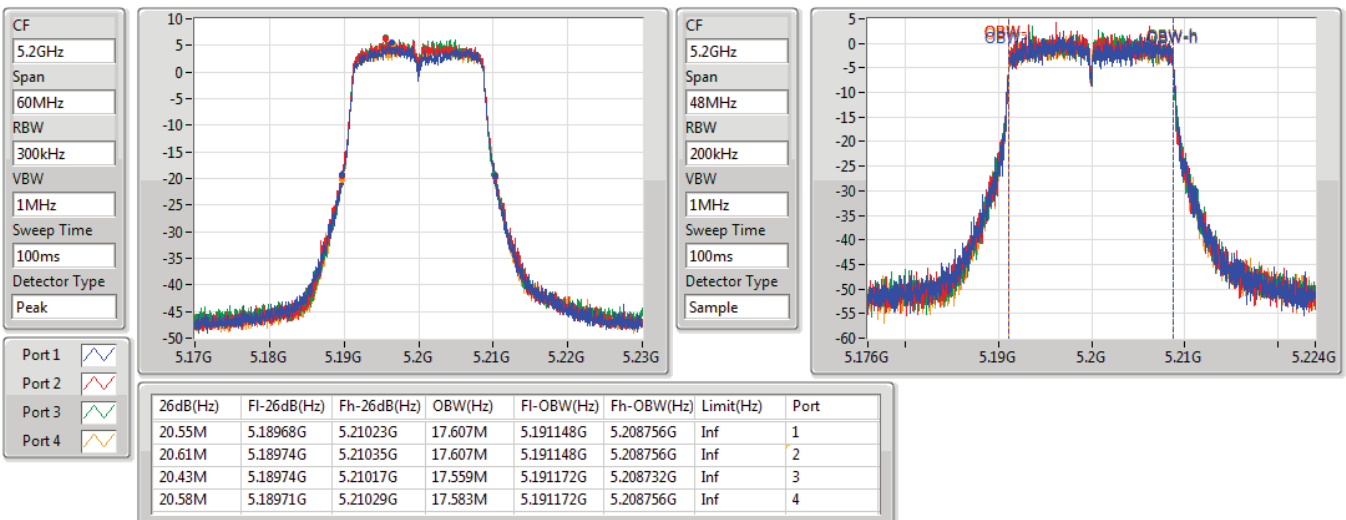


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

11/04/2020



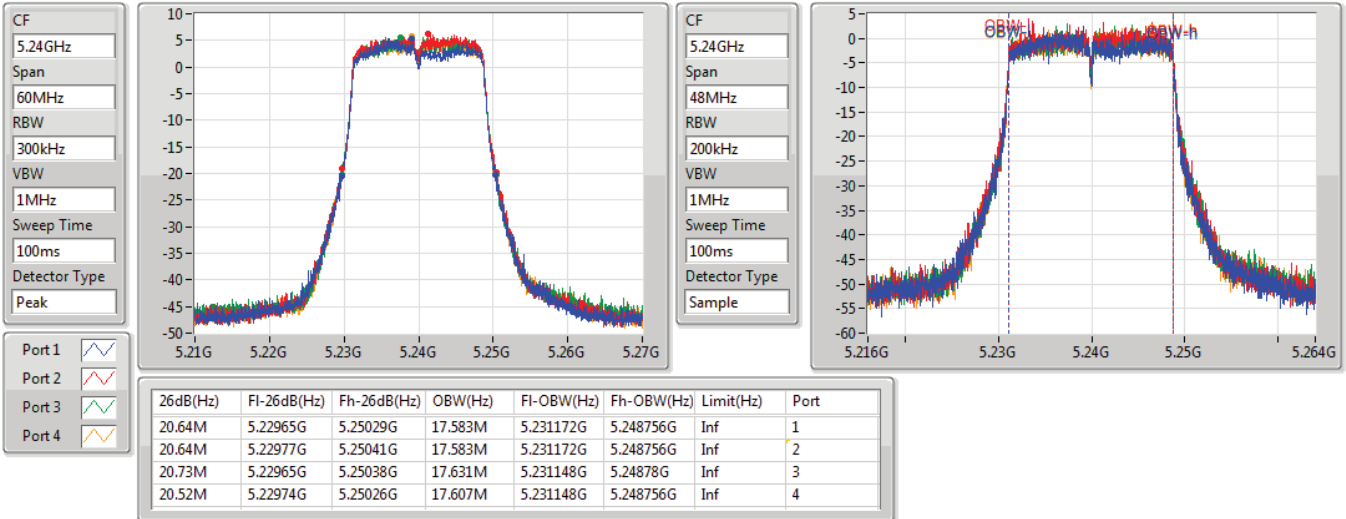


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5240MHz

11/04/2020

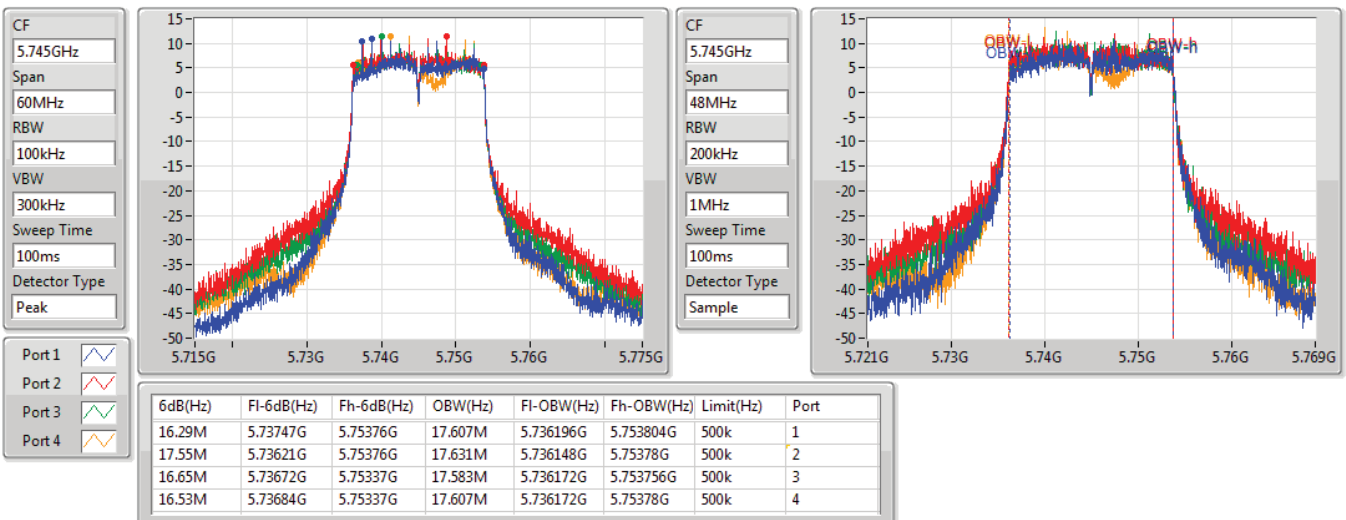


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

05/04/2020



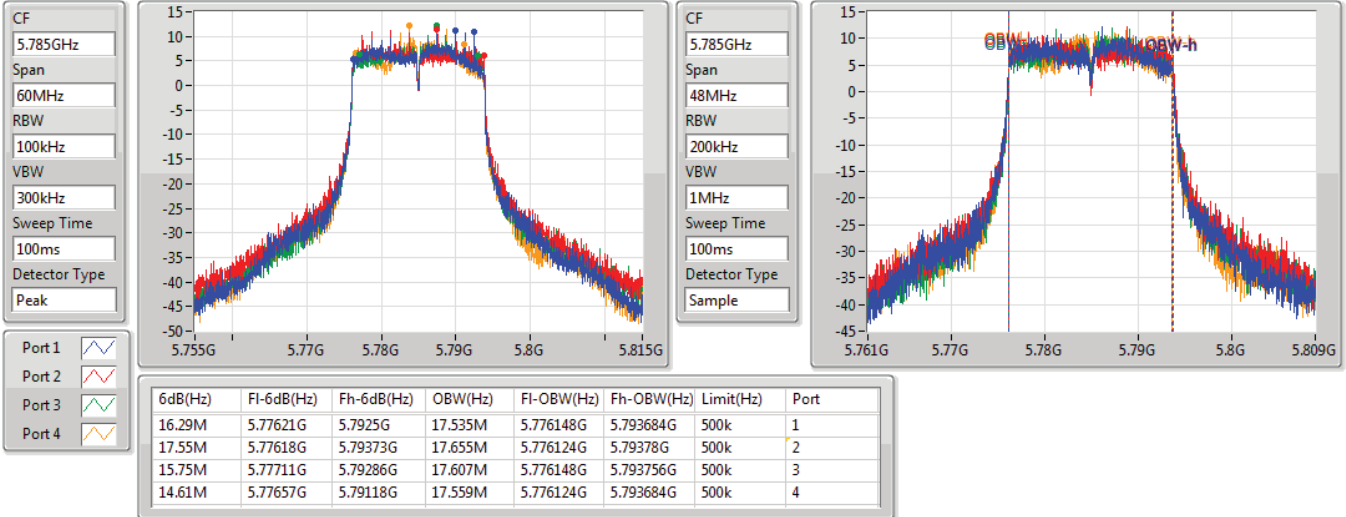


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5785MHz

05/04/2020

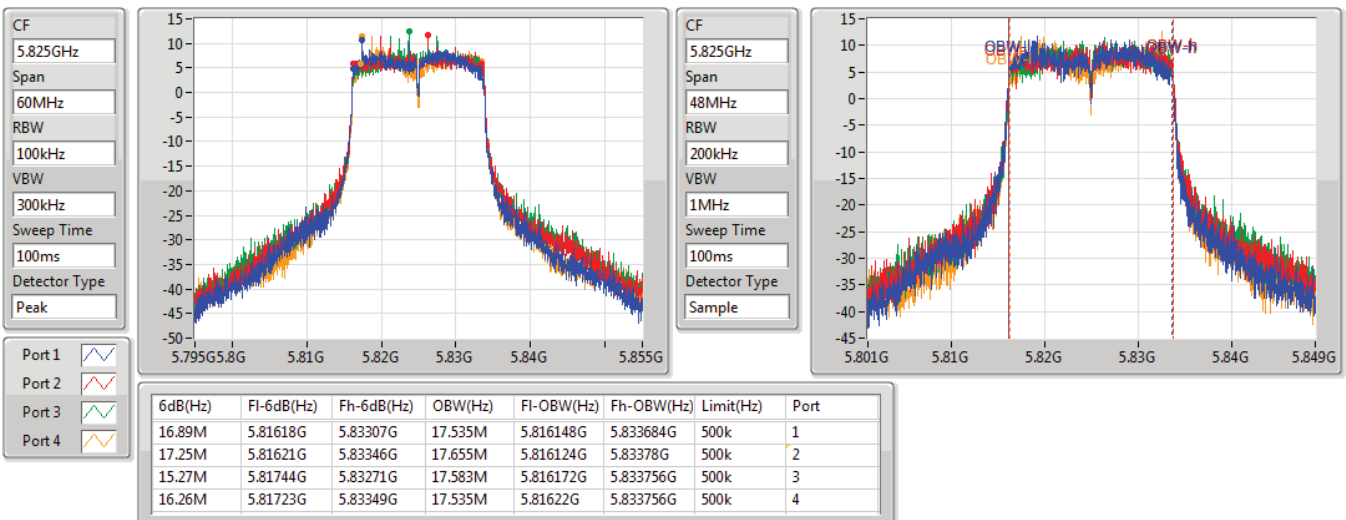


802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5825MHz

05/04/2020



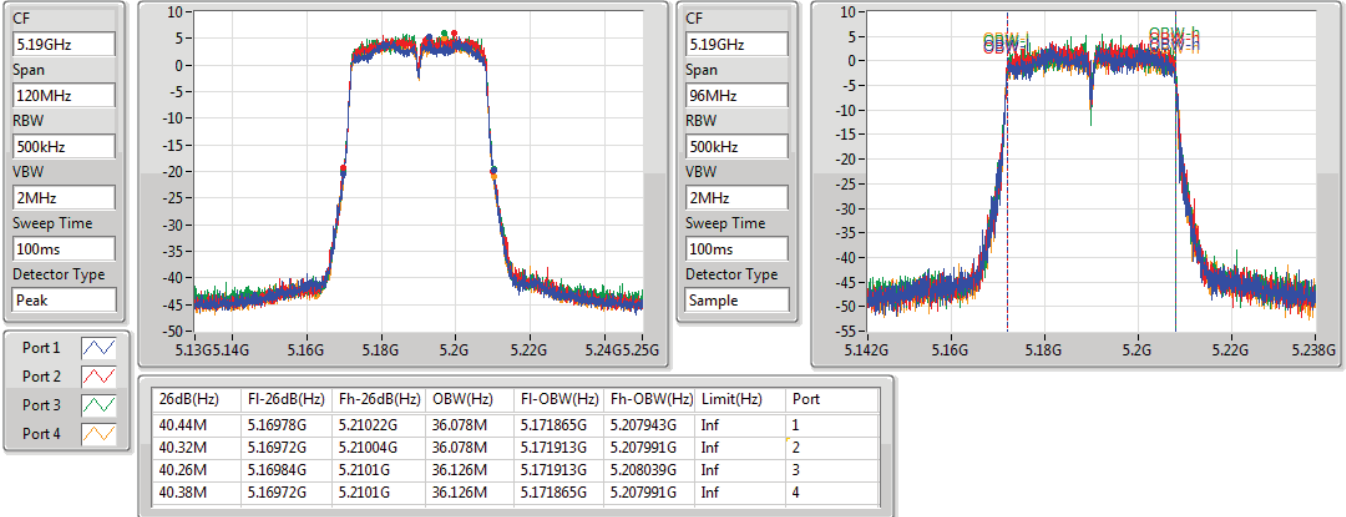


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5190MHz

11/04/2020

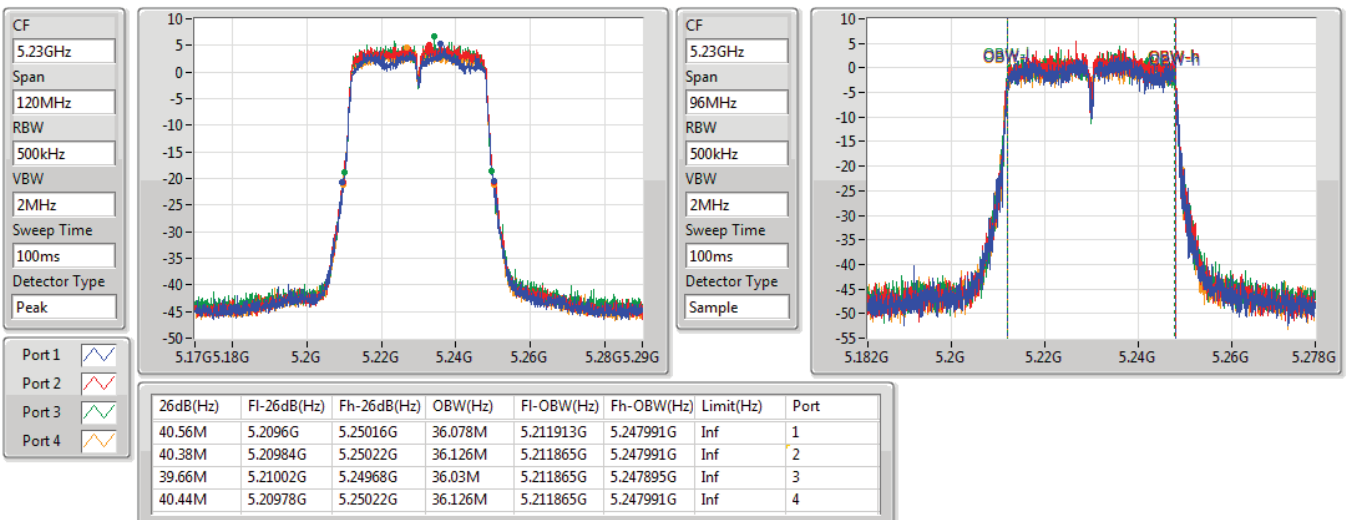


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5230MHz

11/04/2020



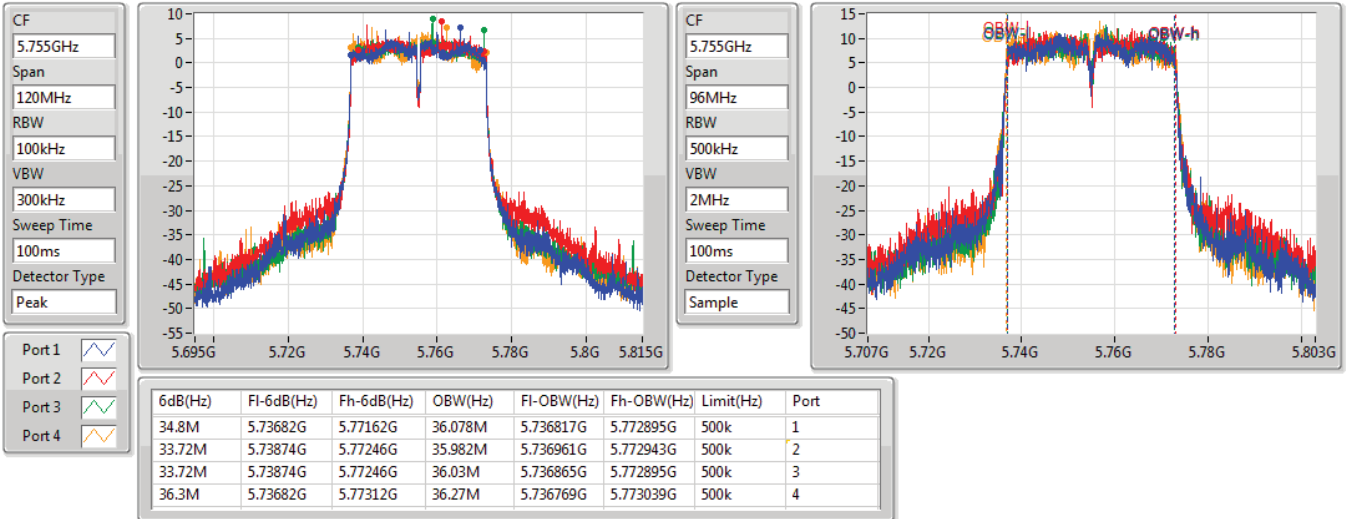


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5755MHz

05/04/2020

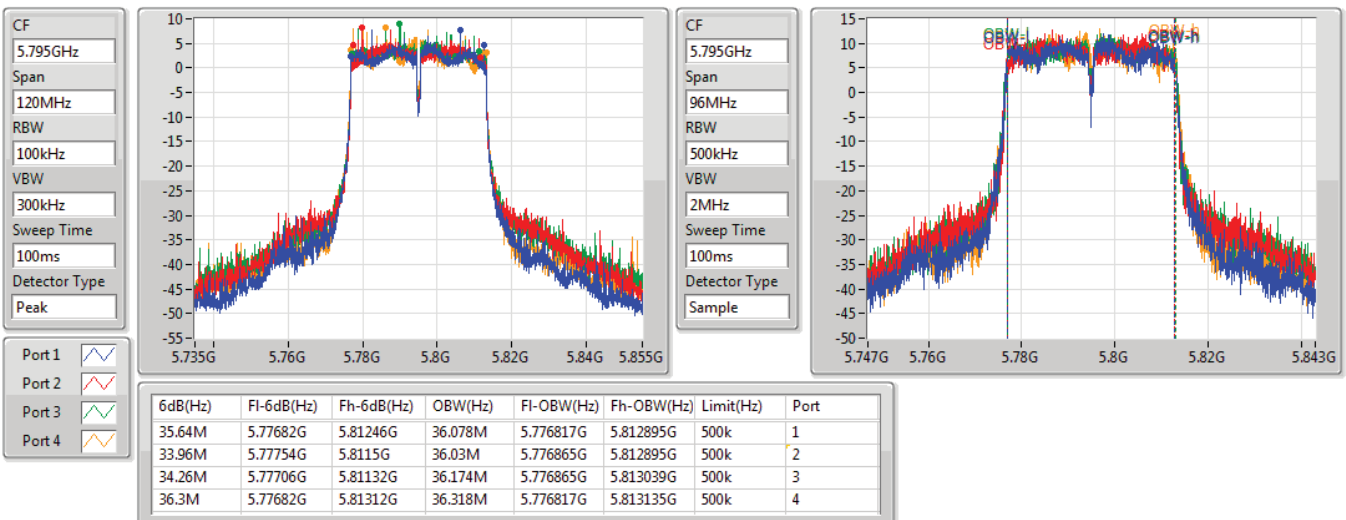


802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

05/04/2020



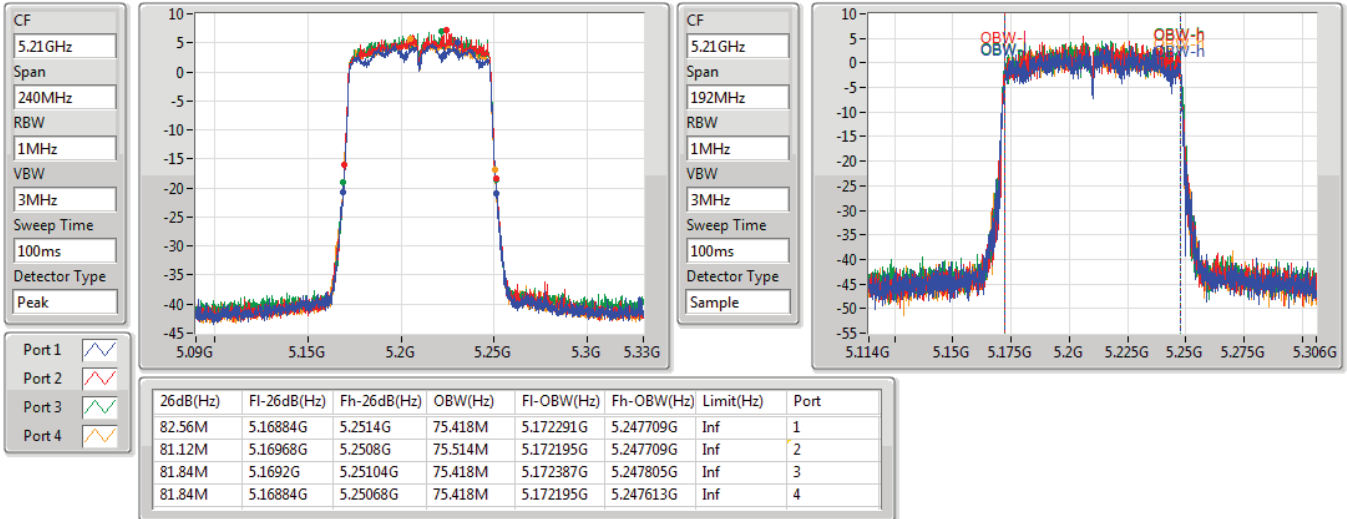


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5210MHz

11/04/2020

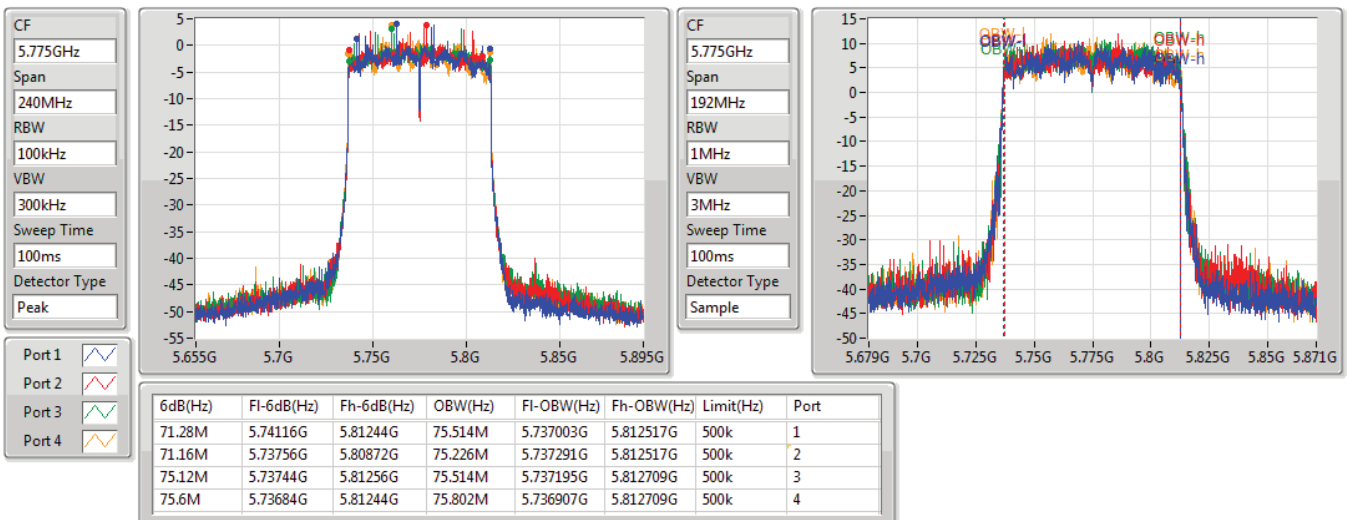


802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5775MHz

05/04/2020



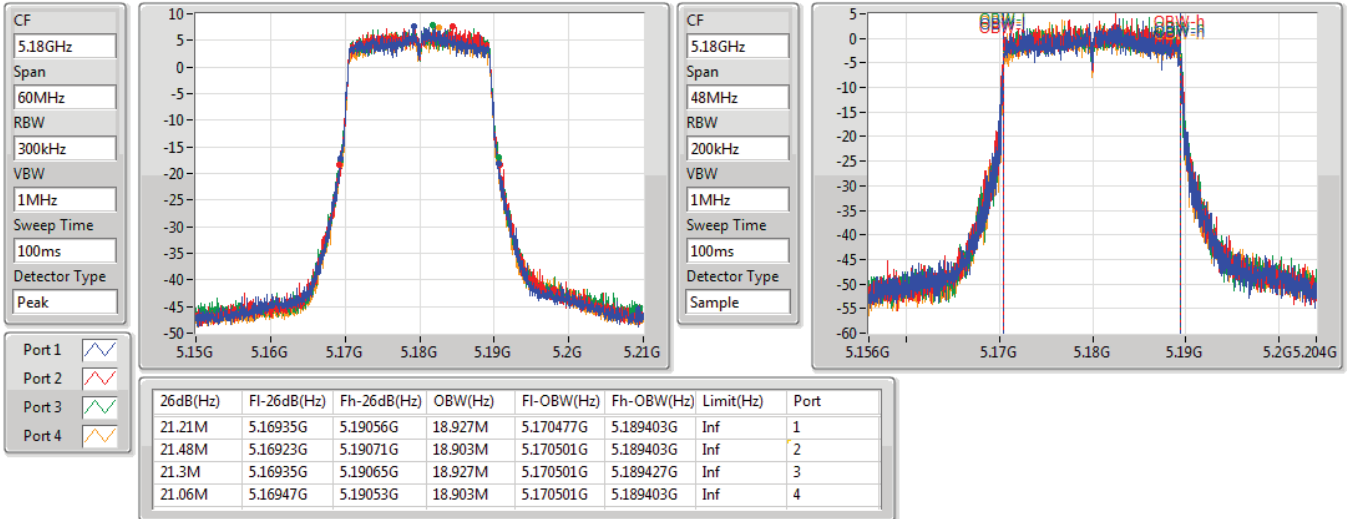


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5180MHz

11/04/2020

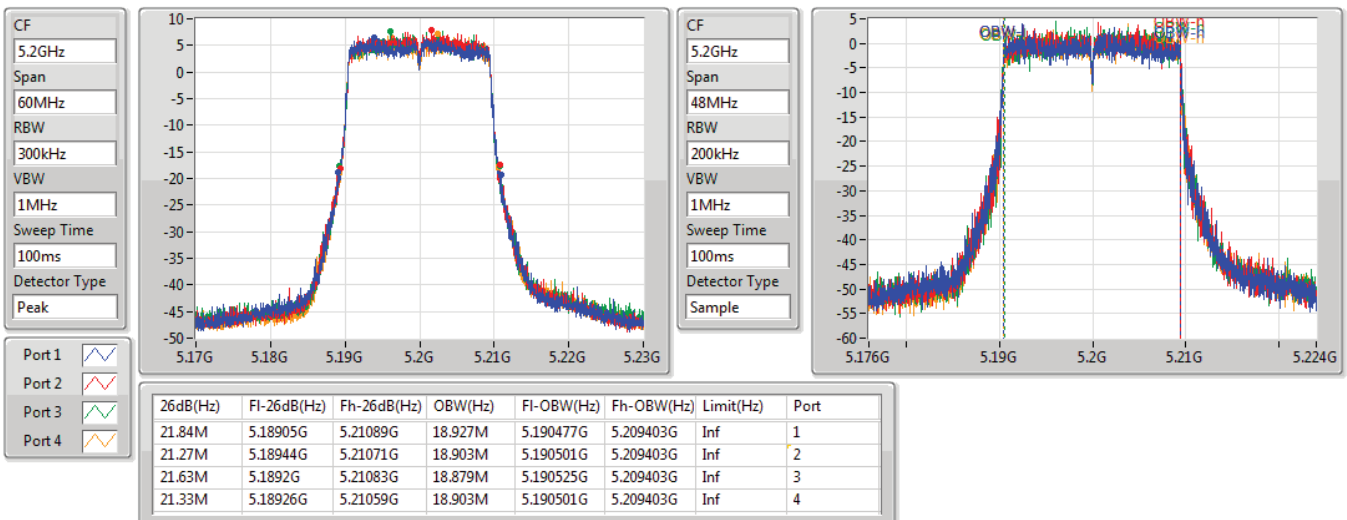


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5200MHz

11/04/2020



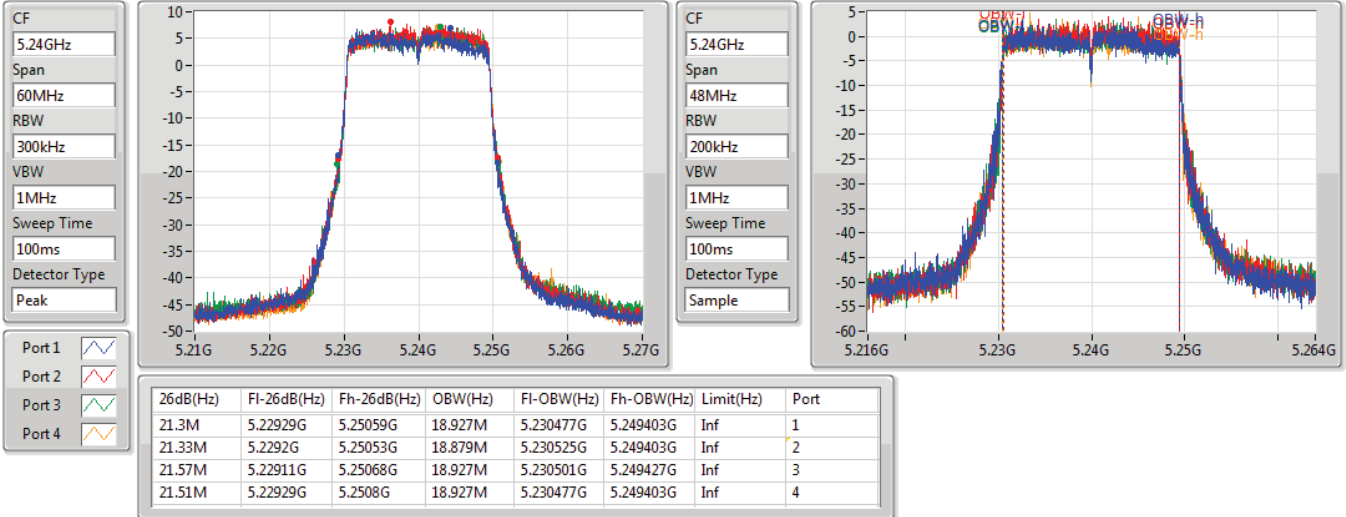


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5240MHz

11/04/2020

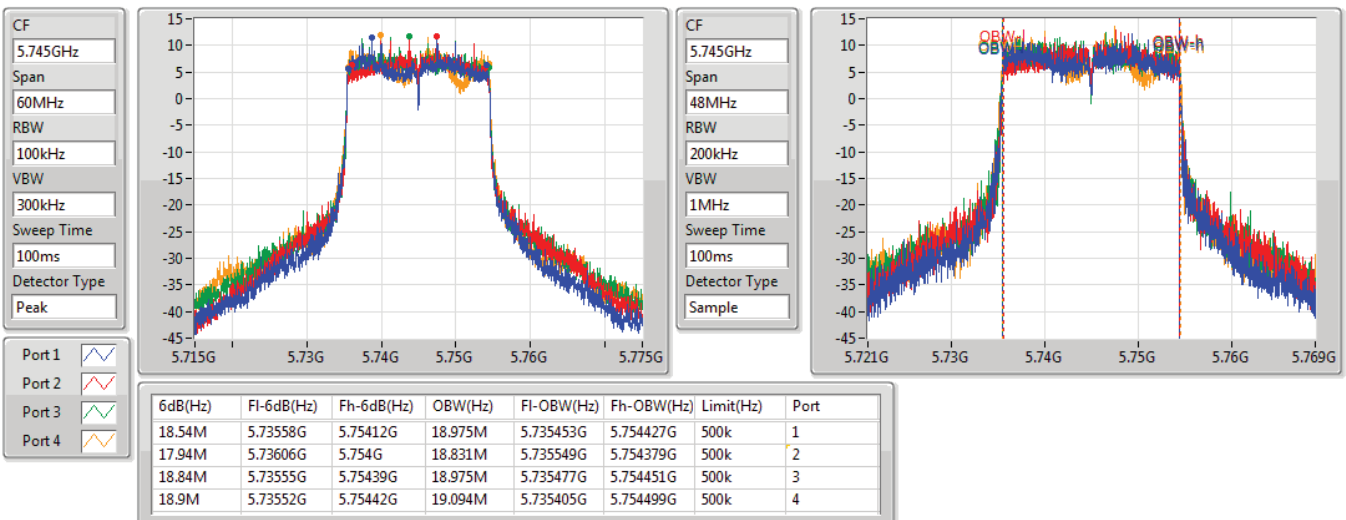


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

05/04/2020



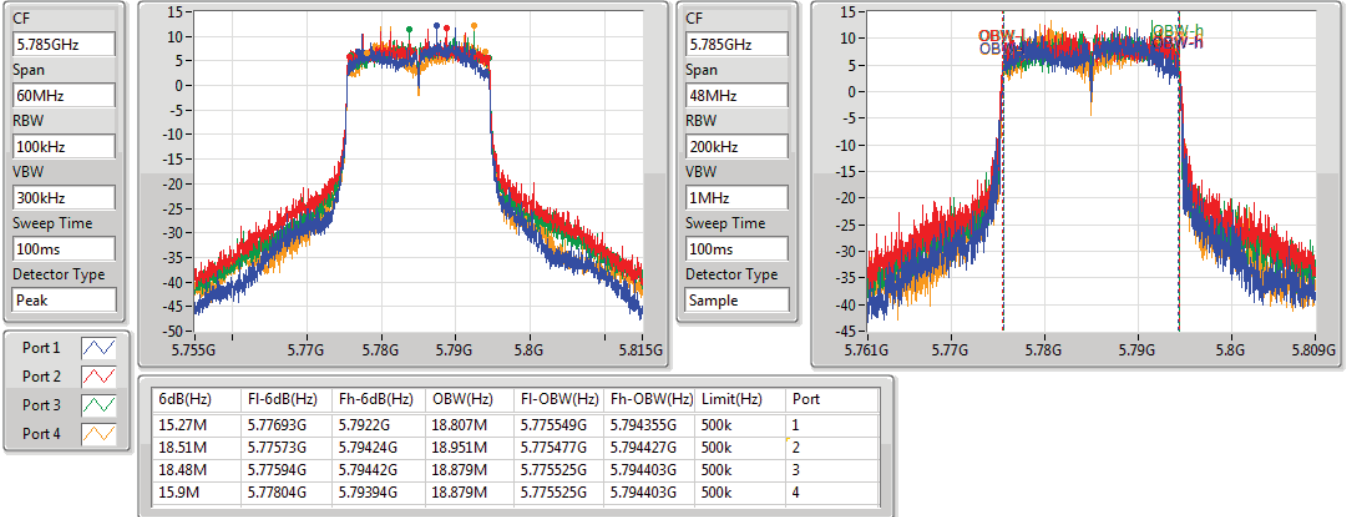


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

05/04/2020

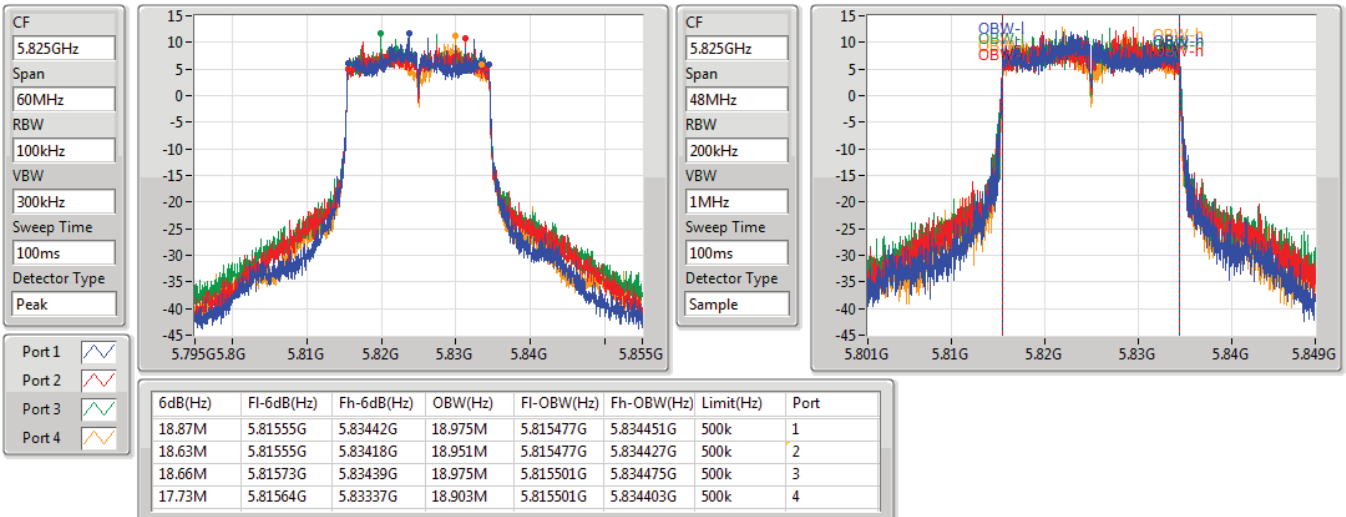


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

05/04/2020



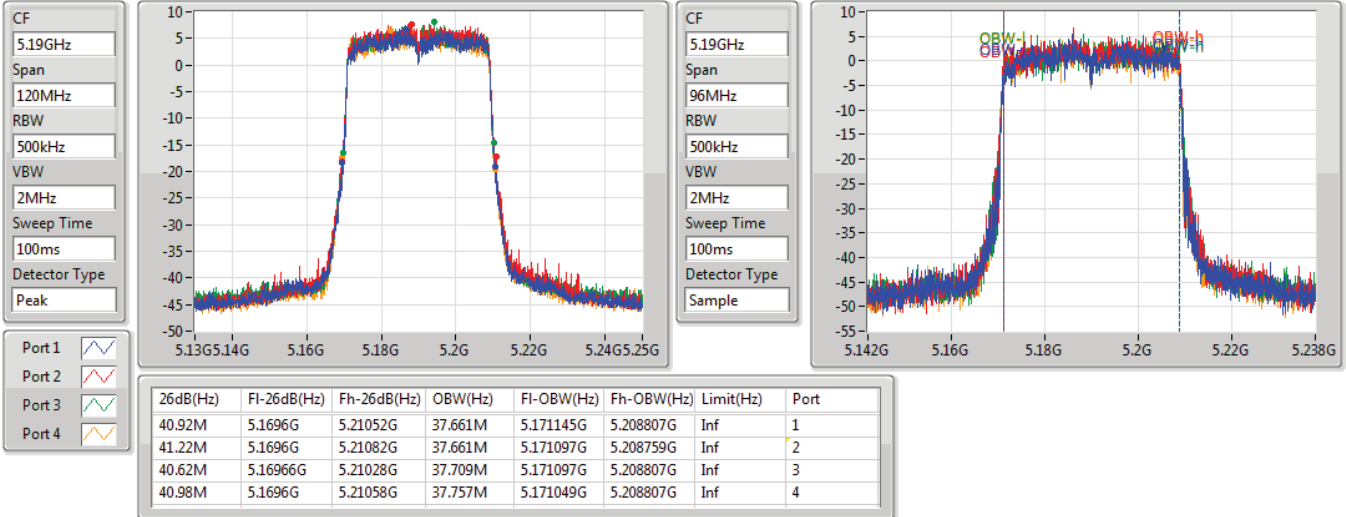


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5190MHz

11/04/2020

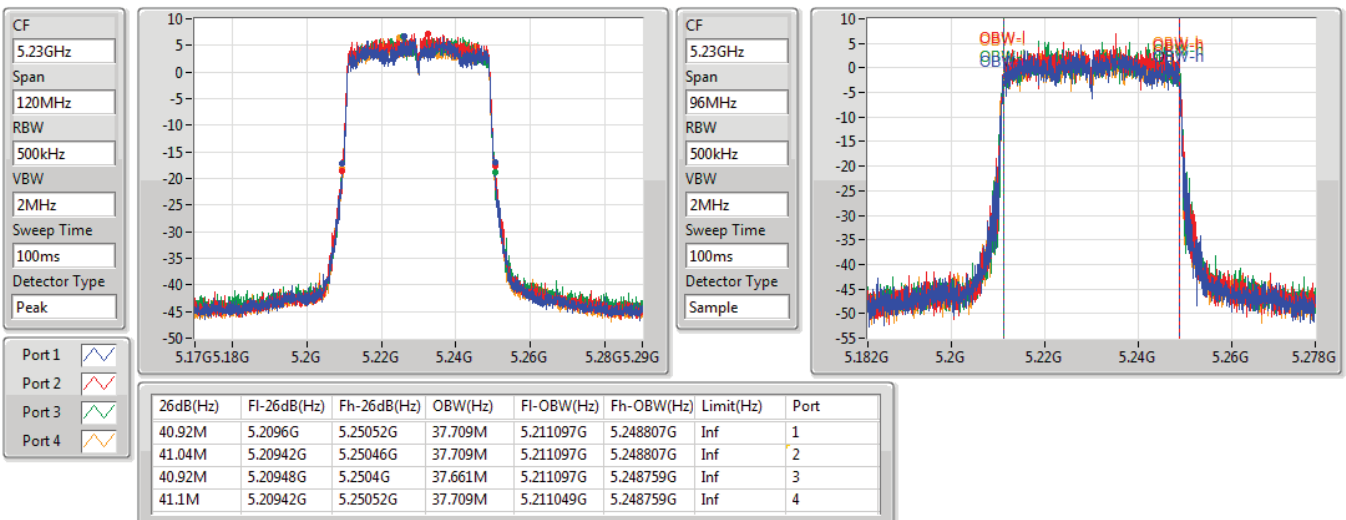


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5230MHz

11/04/2020



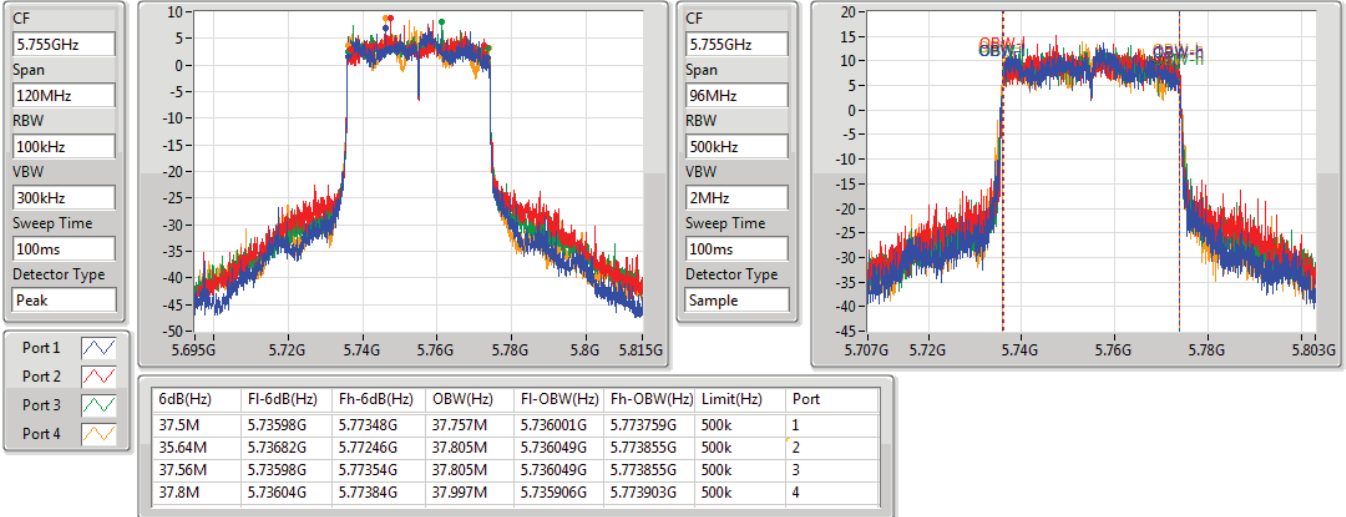


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

05/04/2020

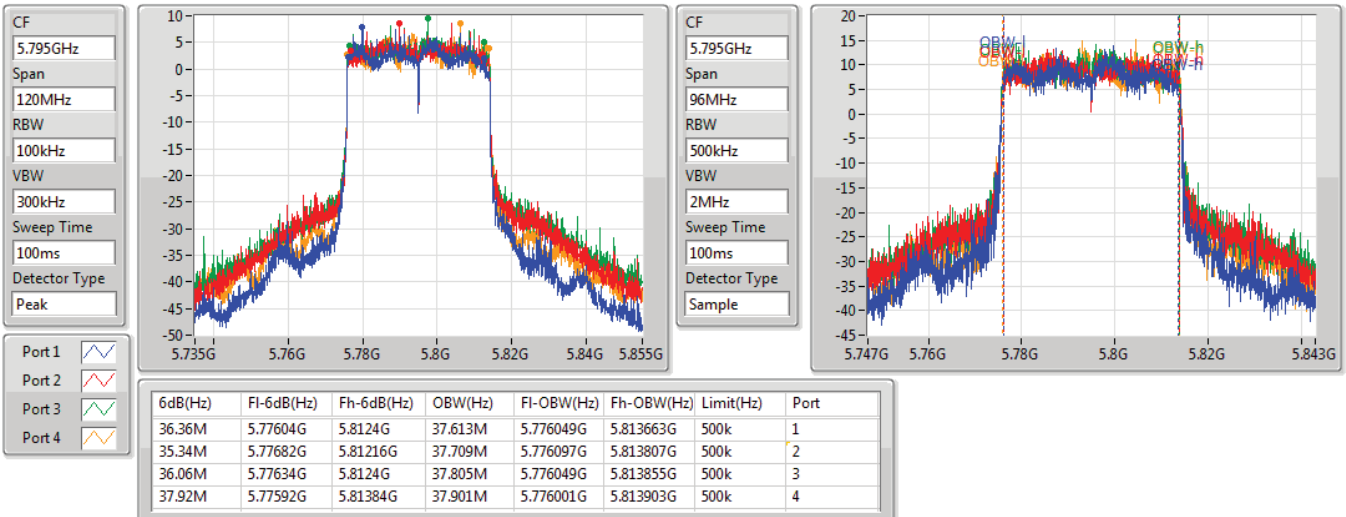


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

05/04/2020



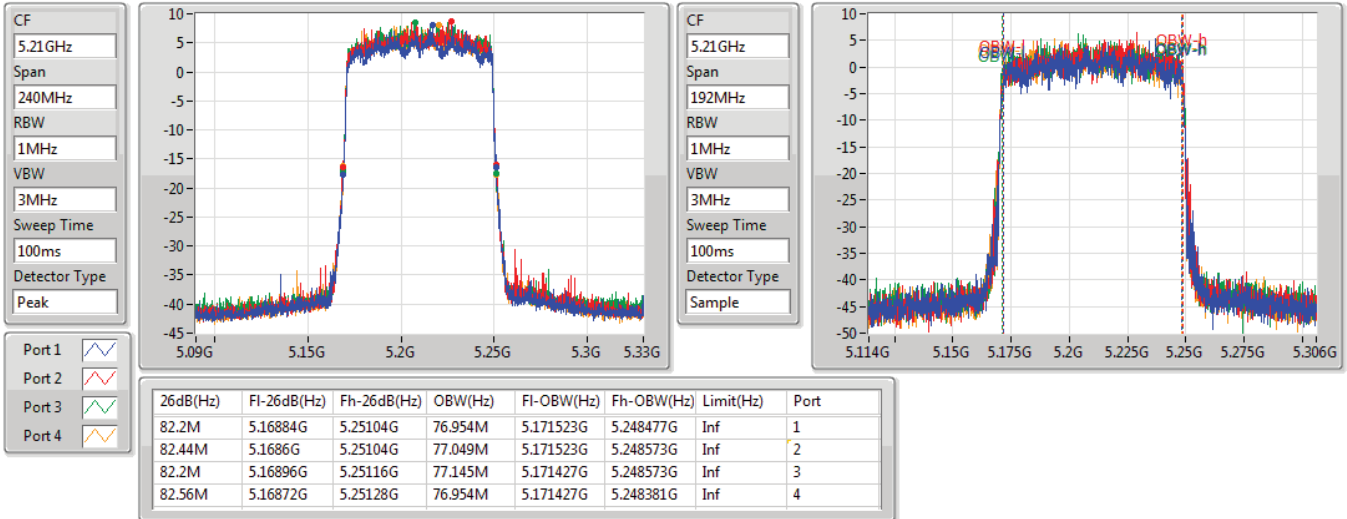


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

11/04/2020

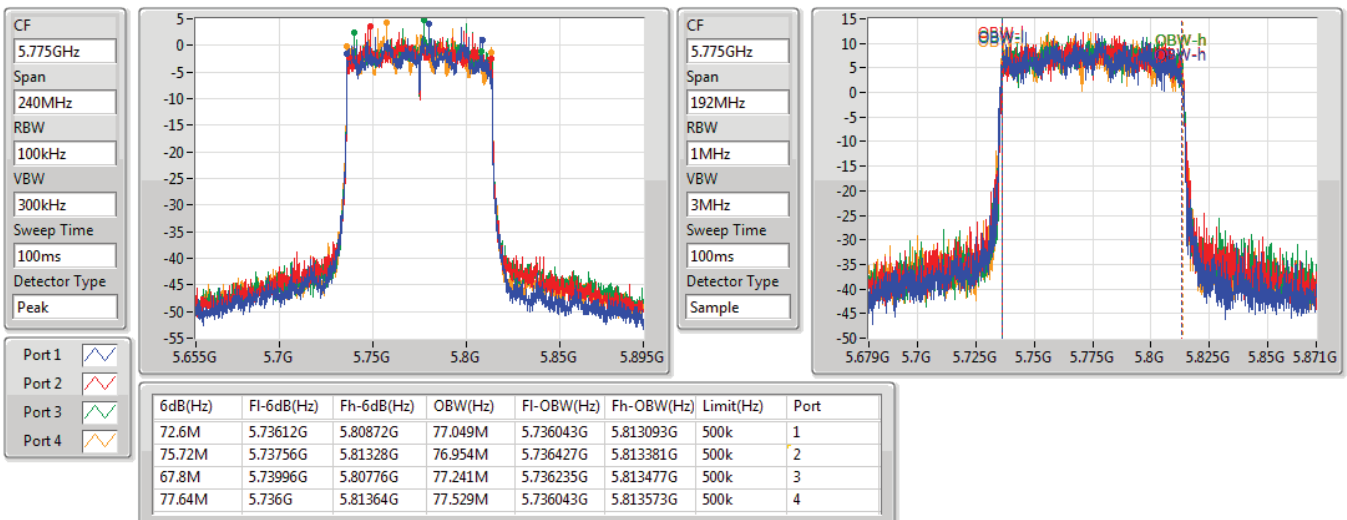


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

05/04/2020



**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	26.94M	16.744M	16M7D1D	23.85M	16.6M
802.11ac VHT20_Nss1,(MCS0)_2TX	29.22M	17.823M	17M8D1D	24.75M	17.751M
802.11ac VHT40_Nss1,(MCS0)_2TX	83.88M	38.429M	38M4D1D	44.28M	36.222M
802.11ac VHT80_Nss1,(MCS0)_2TX	89.52M	76.09M	76M1D1D	87.6M	75.898M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.32M	21.757M	21M8D1D	16.26M	18.831M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.52M	21.685M	21M7D1D	17.1M	19.286M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.06M	49.847M	49M8D1D	35.4M	41.931M
802.11ac VHT80_Nss1,(MCS0)_2TX	73.68M	92.114M	92M1D1D	69.12M	77.337M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	24.66M	16.6M	24.51M	16.624M
5200MHz	Pass	Inf	26.88M	16.624M	25.62M	16.6M
5240MHz	Pass	Inf	26.94M	16.744M	23.85M	16.6M
5745MHz	Pass	500k	16.29M	20.006M	16.32M	18.831M
5785MHz	Pass	500k	16.32M	19.286M	16.26M	19.094M
5825MHz	Pass	500k	16.32M	21.757M	16.26M	19.742M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	25.44M	17.799M	28.02M	17.823M
5200MHz	Pass	Inf	27.66M	17.775M	28.44M	17.751M
5240MHz	Pass	Inf	29.22M	17.823M	24.75M	17.751M
5745MHz	Pass	500k	17.1M	19.622M	17.52M	19.406M
5785MHz	Pass	500k	17.28M	19.718M	17.13M	19.286M
5825MHz	Pass	500k	17.16M	21.685M	17.13M	19.886M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	44.28M	36.27M	44.7M	36.222M
5230MHz	Pass	Inf	83.88M	38.429M	73.8M	36.846M
5755MHz	Pass	500k	35.7M	41.931M	35.46M	48.504M
5795MHz	Pass	500k	35.4M	46.825M	36.06M	49.847M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	89.52M	76.09M	87.6M	75.898M
5775MHz	Pass	500k	69.12M	77.337M	73.68M	92.114M

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

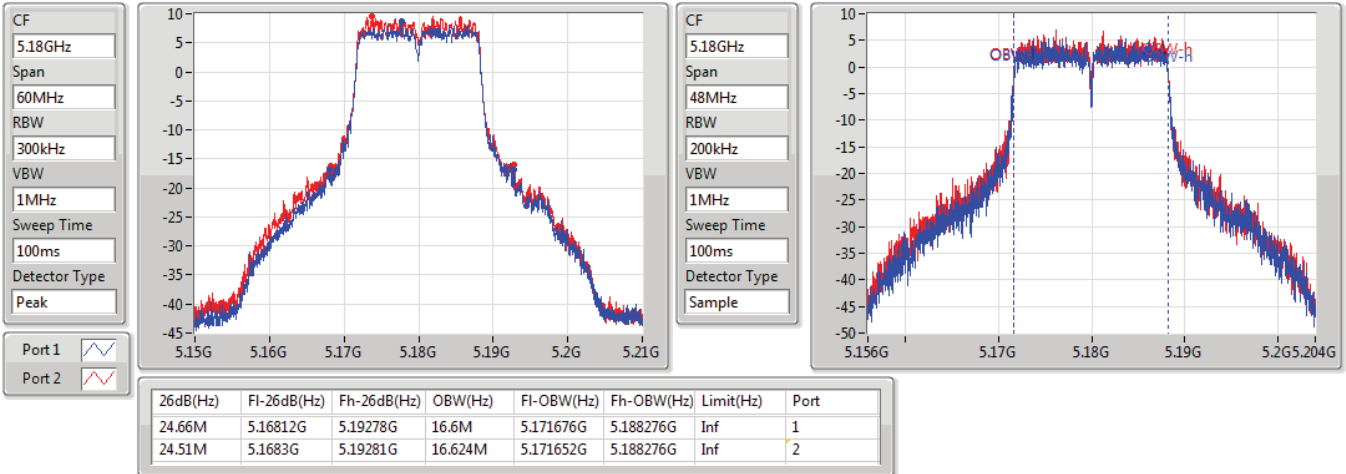
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

02/04/2020

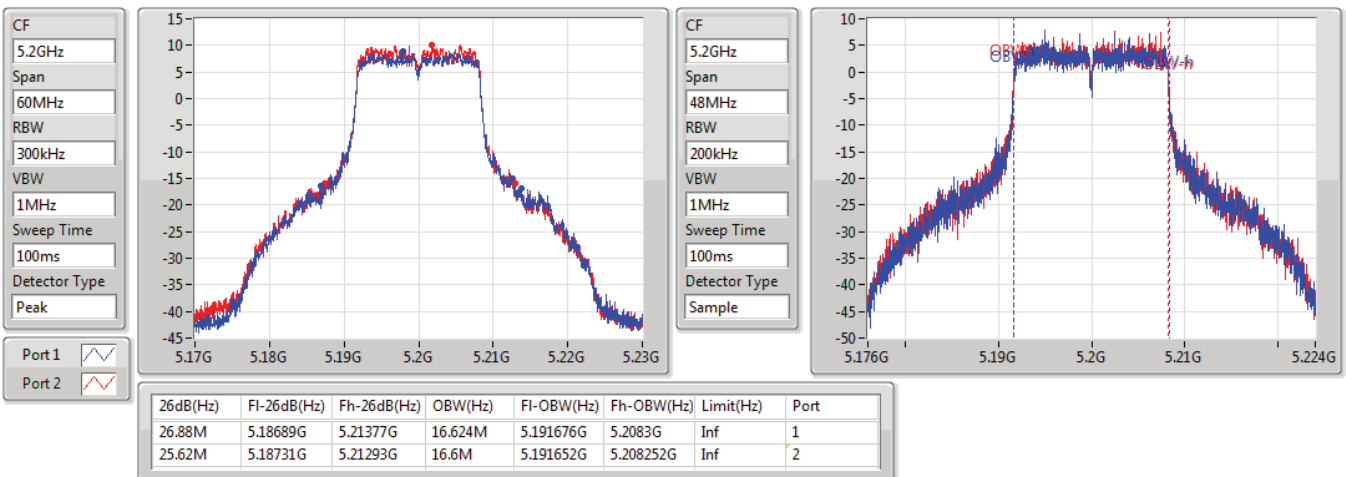


802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

02/04/2020

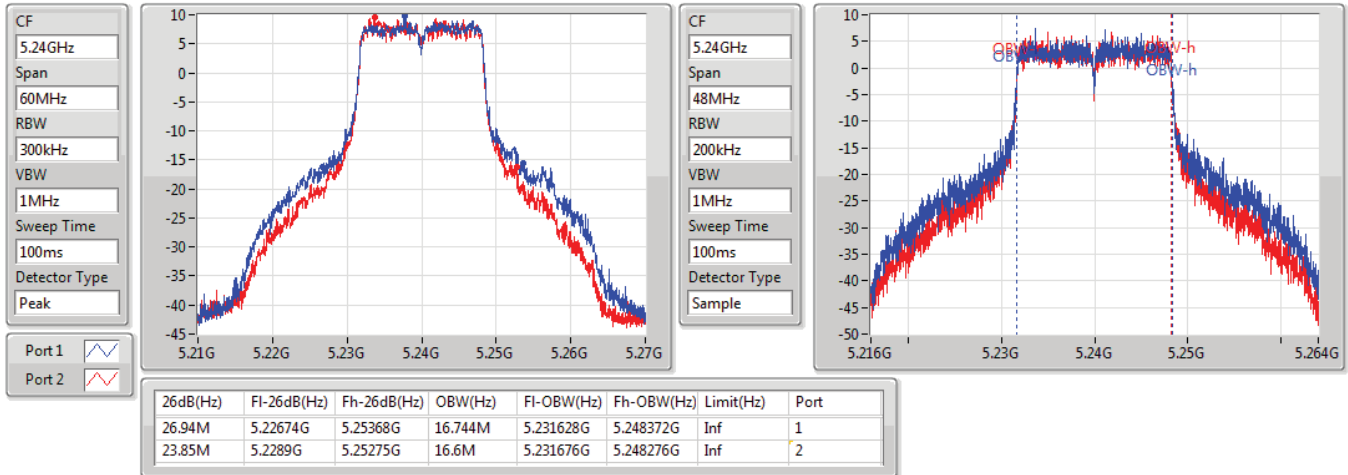


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

02/04/2020

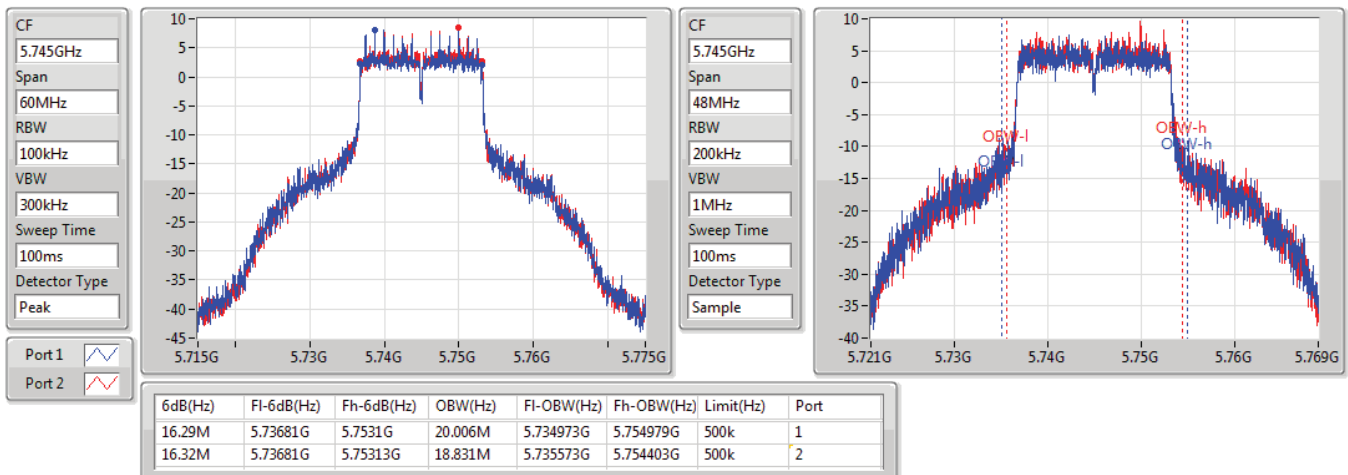


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

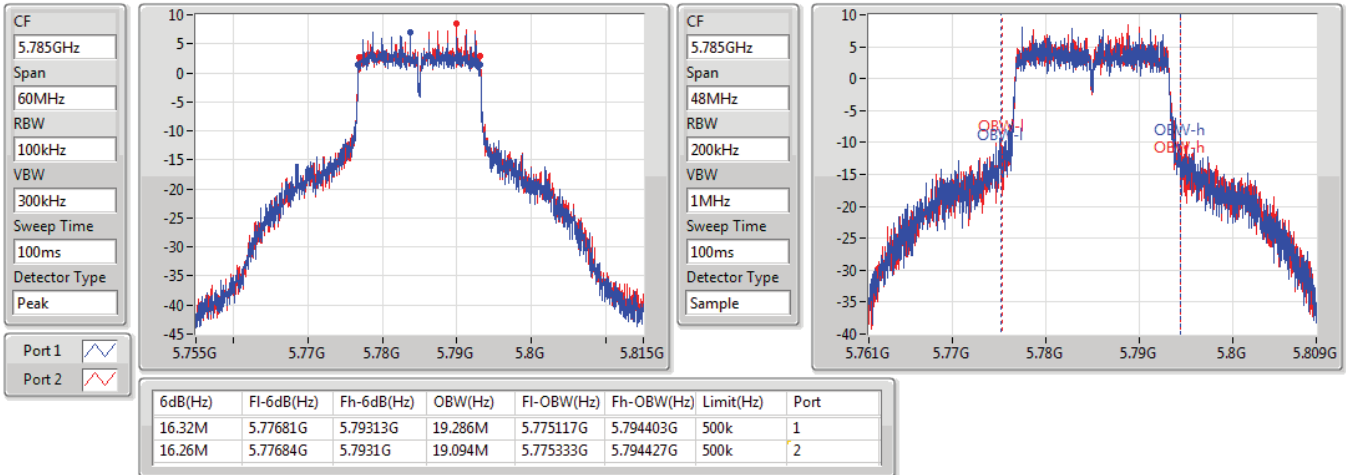
02/04/2020



802.11a_Nss1,(6Mbps)_2TX

5785MHz

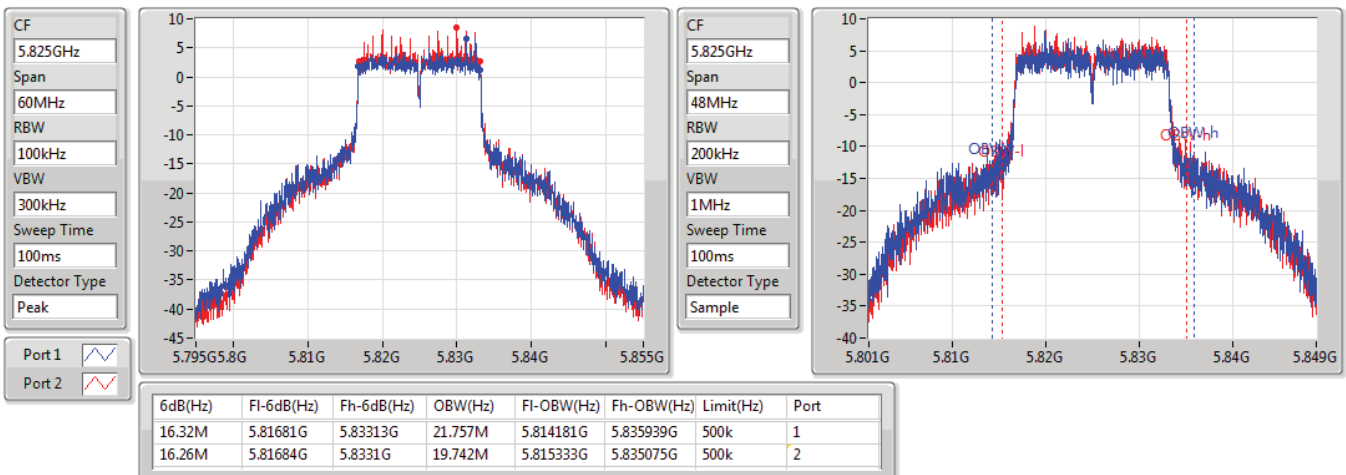
02/04/2020



802.11a_Nss1,(6Mbps)_2TX

5825MHz

02/04/2020

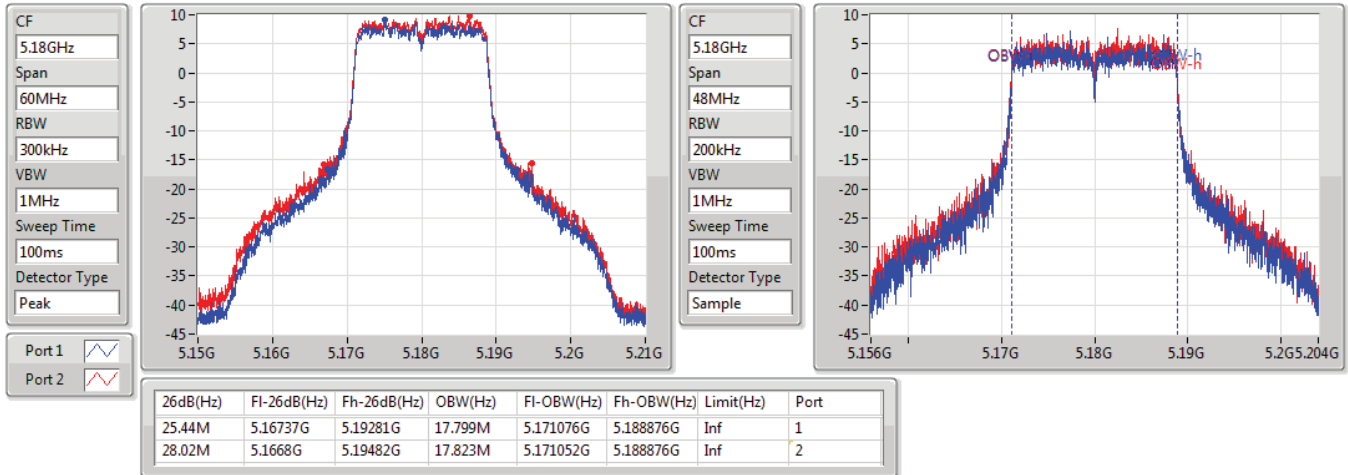


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

02/04/2020

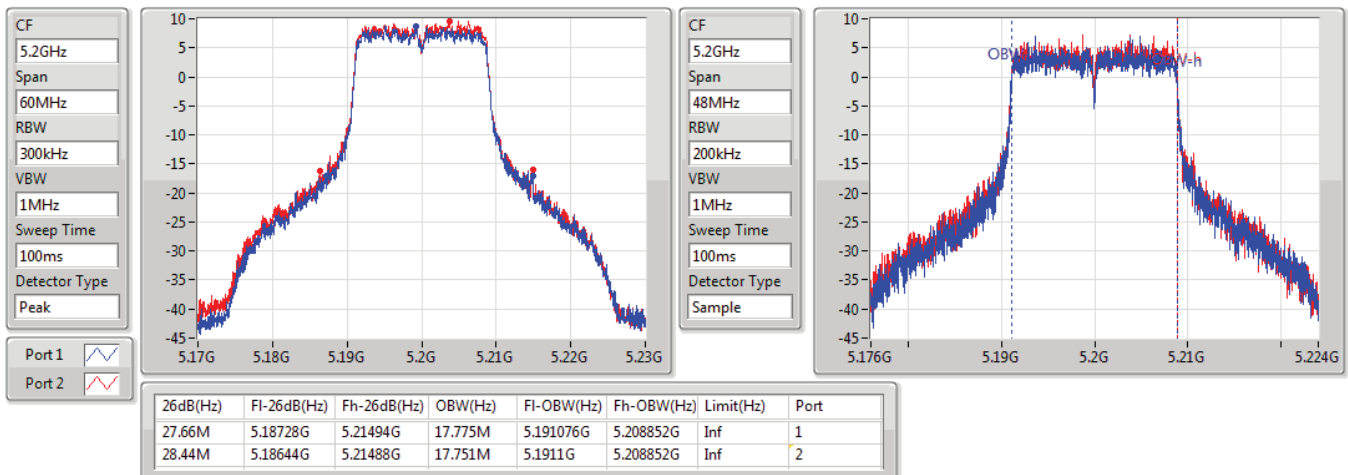


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

02/04/2020

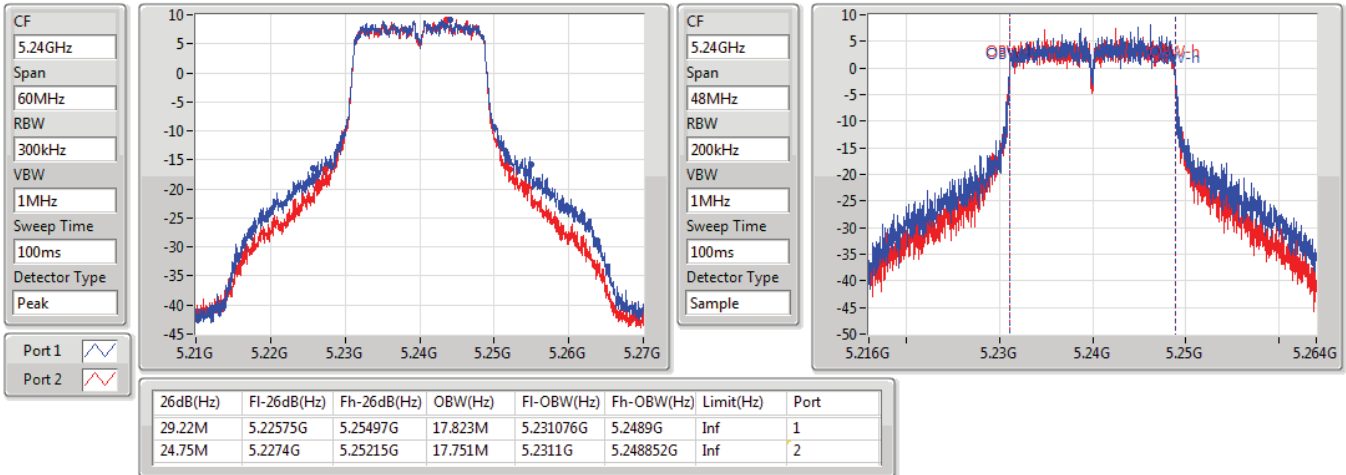


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

02/04/2020

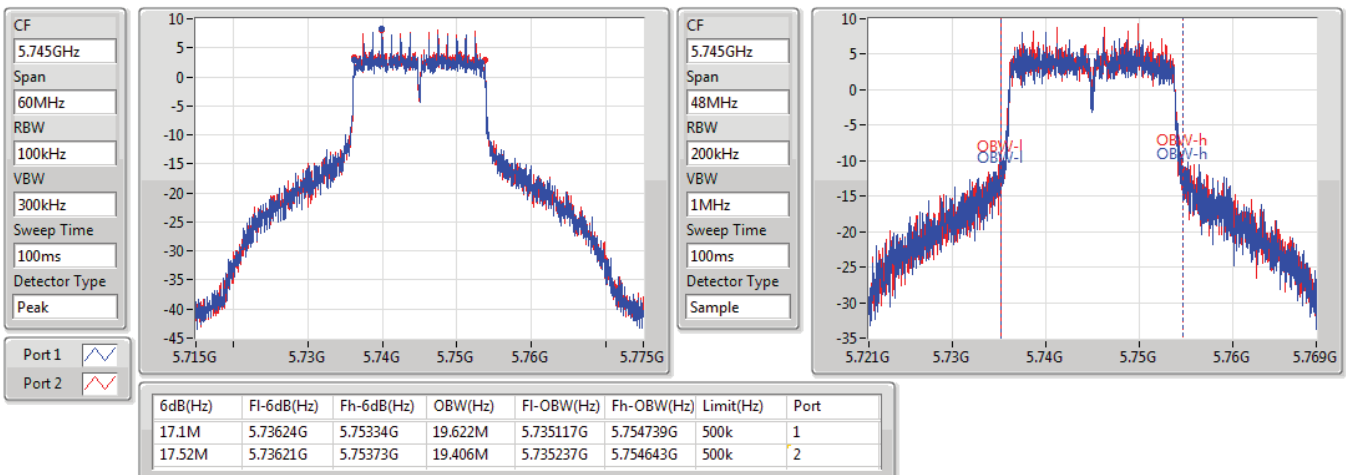


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

02/04/2020

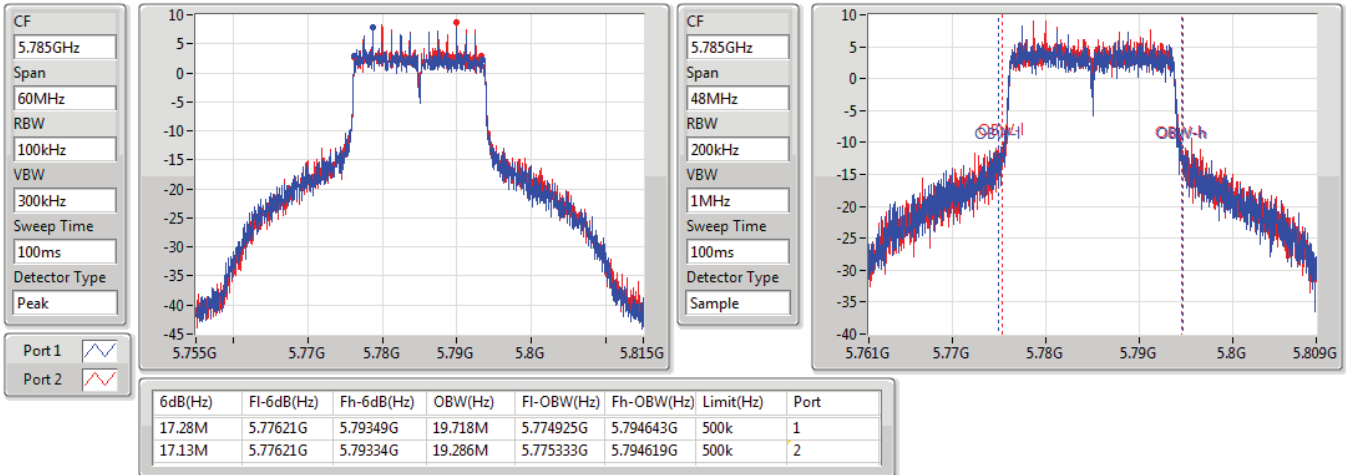


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

02/04/2020

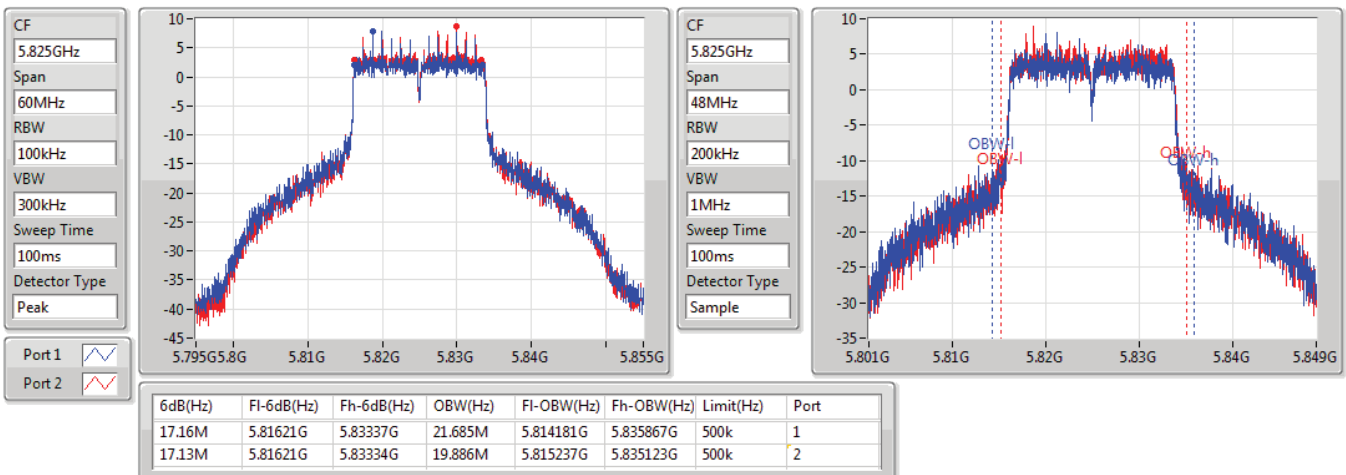


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

02/04/2020

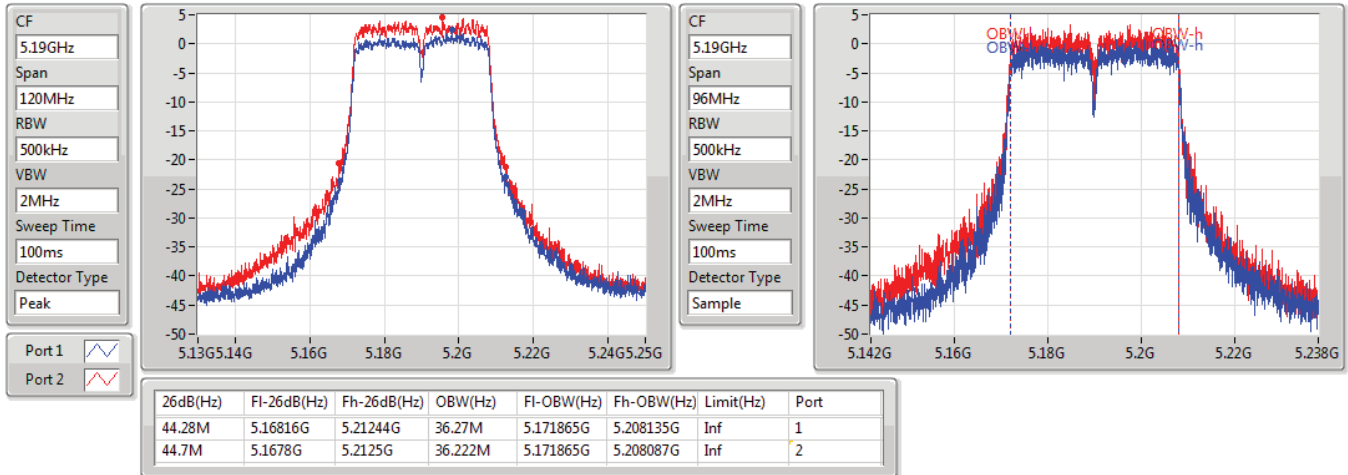


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

02/04/2020

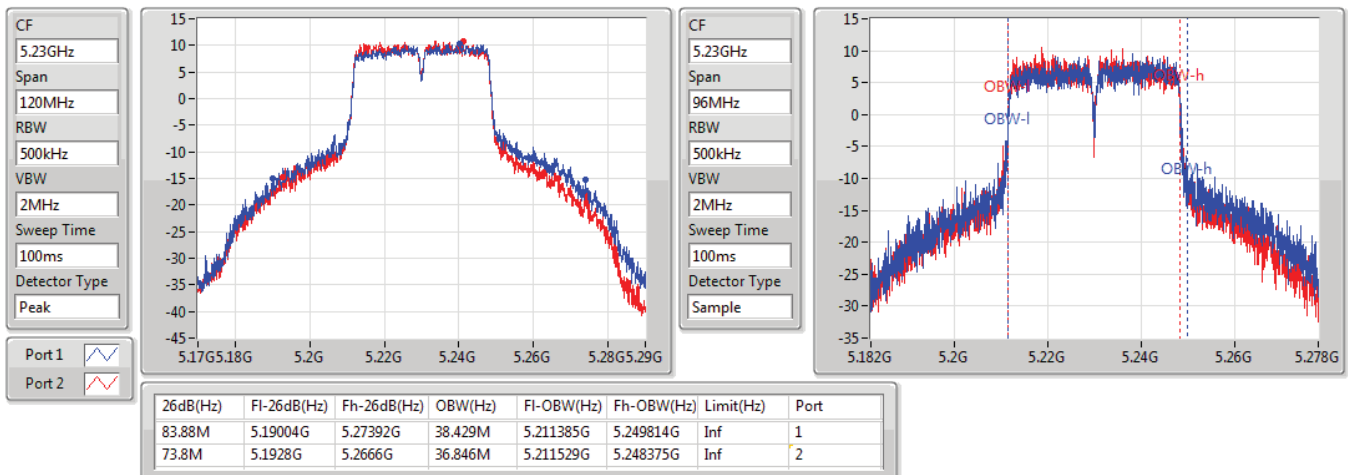


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

02/04/2020

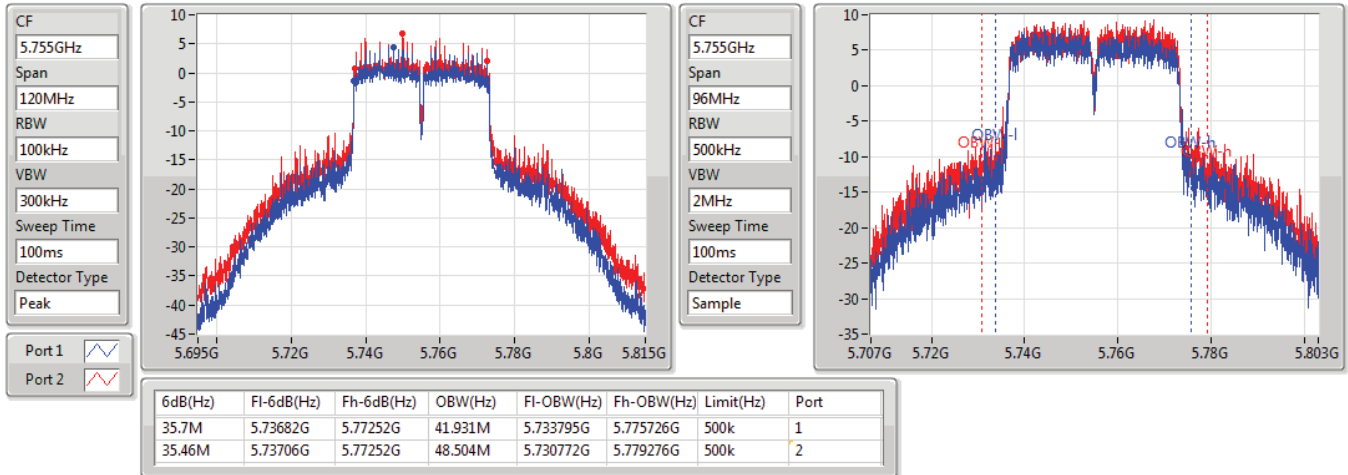


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

02/04/2020

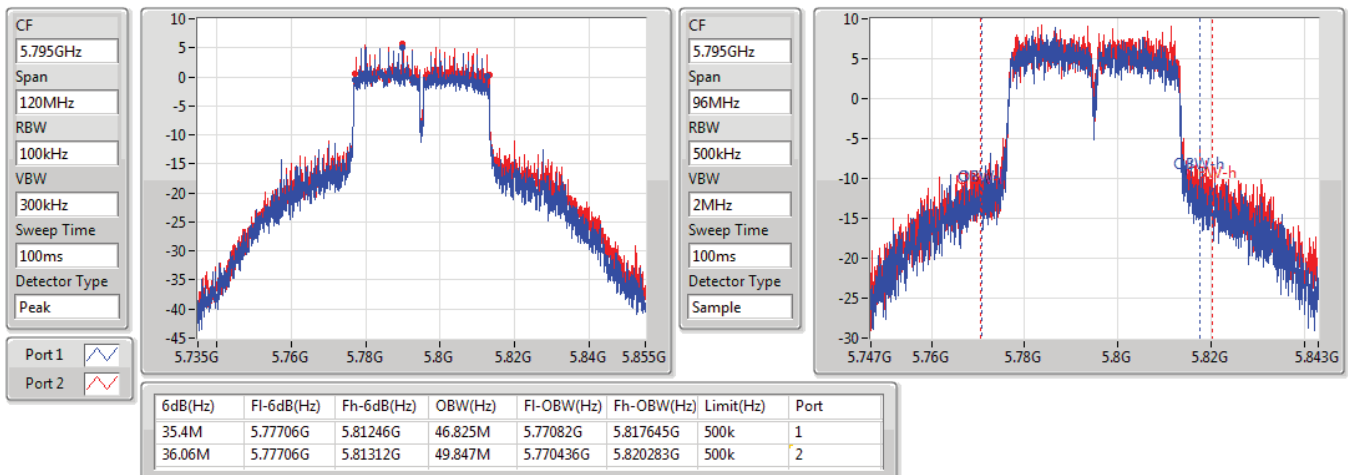


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

02/04/2020

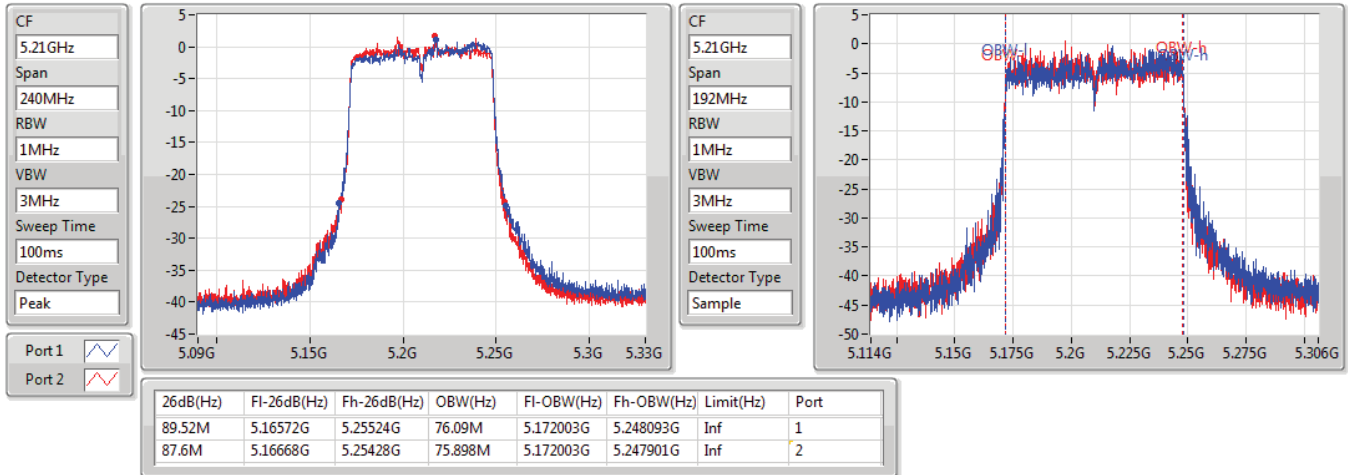


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

02/04/2020

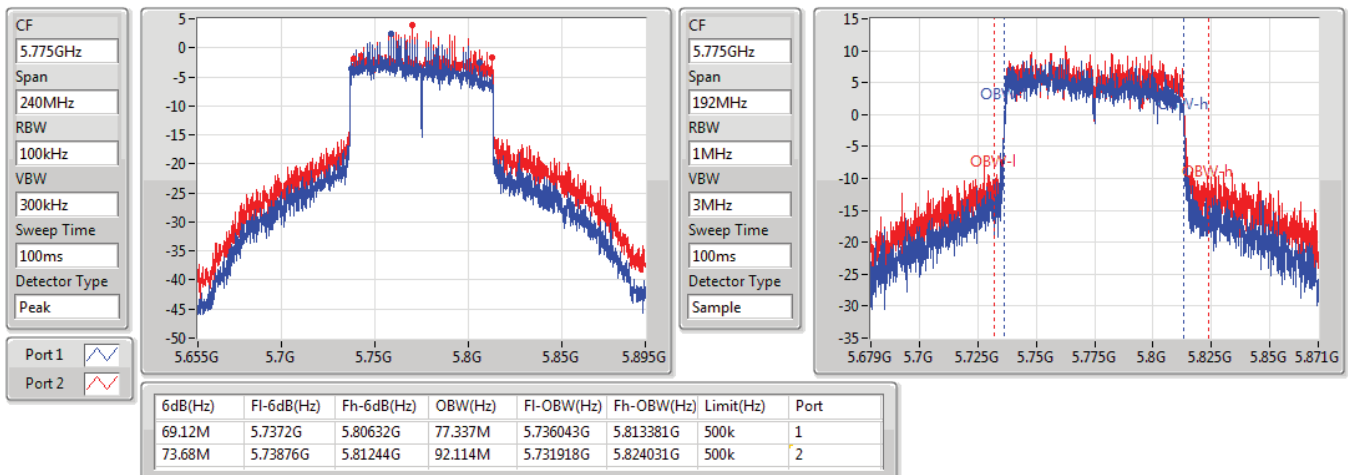


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

02/04/2020





Average Power_Non Beamforming_Indoor_Sample 1_Radio 1 Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.96	0.24889	29.94	0.98628
802.11ac VHT20_Nss1,(MCS0)_4TX	23.77	0.23823	29.75	0.94406
802.11ac VHT40_Nss1,(MCS0)_4TX	27.56	0.57016	33.54	2.25944
802.11ac VHT80_Nss1,(MCS0)_4TX	23.62	0.23014	29.60	0.91201
802.11ax HEW20_Nss1,(MCS0)_4TX	24.05	0.25410	30.03	1.00693
802.11ax HEW40_Nss1,(MCS0)_4TX	27.69	0.58749	33.67	2.32809
802.11ax HEW80_Nss1,(MCS0)_4TX	23.68	0.23335	29.66	0.92470
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.50	0.89125	35.48	3.53183
802.11ac VHT20_Nss1,(MCS0)_4TX	29.19	0.82985	35.17	3.28852
802.11ac VHT40_Nss1,(MCS0)_4TX	29.29	0.84918	35.27	3.36512
802.11ac VHT80_Nss1,(MCS0)_4TX	27.46	0.55719	33.44	2.20800
802.11ax HEW20_Nss1,(MCS0)_4TX	29.45	0.88105	35.43	3.49140
802.11ax HEW40_Nss1,(MCS0)_4TX	29.47	0.88512	35.45	3.50752
802.11ax HEW80_Nss1,(MCS0)_4TX	27.68	0.58614	33.66	2.32274



Average Power_Non Beamforming Indoor_Sample 1_Radio 1 Appendix C.1

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	5.98	17.54	17.42	17.72	18.45	23.82	30.00	29.80	36.00
5200MHz	Pass	5.98	17.57	17.69	18.15	18.32	23.96	30.00	29.94	36.00
5240MHz	Pass	5.98	17.42	17.32	17.75	18.01	23.65	30.00	29.63	36.00
5745MHz	Pass	5.98	23.38	22.99	23.53	23.97	29.50	30.00	35.48	36.00
5785MHz	Pass	5.98	22.86	22.99	23.00	24.15	29.30	30.00	35.28	36.00
5825MHz	Pass	5.98	23.36	22.96	23.39	23.98	29.46	30.00	35.44	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.98	17.67	17.48	17.46	18.23	23.74	30.00	29.72	36.00
5200MHz	Pass	5.98	17.26	17.54	17.93	18.11	23.74	30.00	29.72	36.00
5240MHz	Pass	5.98	17.41	17.35	17.78	18.39	23.77	30.00	29.75	36.00
5745MHz	Pass	5.98	22.98	22.66	23.00	23.51	29.07	30.00	35.05	36.00
5785MHz	Pass	5.98	23.08	22.73	22.85	23.92	29.19	30.00	35.17	36.00
5825MHz	Pass	5.98	23.06	22.39	22.69	23.40	28.92	30.00	34.90	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.98	20.57	20.88	21.37	21.98	27.25	30.00	33.23	36.00
5230MHz	Pass	5.98	21.17	21.25	21.41	22.23	27.56	30.00	33.54	36.00
5755MHz	Pass	5.98	23.18	22.83	23.19	23.82	29.29	30.00	35.27	36.00
5795MHz	Pass	5.98	22.98	22.55	22.72	23.67	29.02	30.00	35.00	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.98	17.25	17.30	17.57	18.22	23.62	30.00	29.60	36.00
5775MHz	Pass	5.98	21.19	21.03	21.30	22.15	27.46	30.00	33.44	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.98	17.80	17.63	17.91	18.41	23.97	30.00	29.95	36.00
5200MHz	Pass	5.98	17.75	17.78	18.13	18.44	24.05	30.00	30.03	36.00
5240MHz	Pass	5.98	17.67	17.40	17.91	18.12	23.80	30.00	29.78	36.00
5745MHz	Pass	5.98	23.11	22.92	23.19	23.63	29.24	30.00	35.22	36.00
5785MHz	Pass	5.98	23.18	23.03	23.21	24.21	29.45	30.00	35.43	36.00
5825MHz	Pass	5.98	22.95	22.78	23.00	23.81	29.17	30.00	35.15	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.98	20.94	20.96	21.30	21.94	27.32	30.00	33.30	36.00
5230MHz	Pass	5.98	21.31	21.30	21.64	22.35	27.69	30.00	33.67	36.00
5755MHz	Pass	5.98	23.40	22.87	23.40	24.04	29.47	30.00	35.45	36.00
5795MHz	Pass	5.98	23.18	22.73	22.95	23.77	29.20	30.00	35.18	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.98	17.14	17.47	17.72	18.25	23.68	30.00	29.66	36.00
5775MHz	Pass	5.98	21.48	21.25	21.47	22.36	27.68	30.00	33.66	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	18.08	0.06427	29.75	0.94406
802.11ac VHT40,BF_Nss1,(MCS0)_4TX	21.87	0.15382	33.54	2.25944
802.11ac VHT80,BF_Nss1,(MCS0)_4TX	17.93	0.06209	29.60	0.91201
802.11ax HEW20,BF_Nss1,(MCS0)_4TX	18.36	0.06855	30.03	1.00693
802.11ax HEW40,BF_Nss1,(MCS0)_4TX	22.00	0.15849	33.67	2.32809
802.11ax HEW80,BF_Nss1,(MCS0)_4TX	17.99	0.06295	29.66	0.92470
5.725-5.85GHz	-	-	-	-
802.11ac VHT20,BF_Nss1,(MCS0)_4TX	23.50	0.22387	35.17	3.28852
802.11ac VHT40,BF_Nss1,(MCS0)_4TX	23.60	0.22909	35.27	3.36512
802.11ac VHT80,BF_Nss1,(MCS0)_4TX	21.77	0.15031	33.44	2.20800
802.11ax HEW20,BF_Nss1,(MCS0)_4TX	23.76	0.23768	35.43	3.49140
802.11ax HEW40,BF_Nss1,(MCS0)_4TX	23.78	0.23878	35.45	3.50752
802.11ax HEW80,BF_Nss1,(MCS0)_4TX	21.99	0.15812	33.66	2.32274

**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	Pass	11.67	11.98	11.79	11.77	12.54	18.05	24.33	29.72	36.00
5200MHz	Pass	11.67	11.57	11.85	12.24	12.42	18.05	24.33	29.72	36.00
5240MHz	Pass	11.67	11.72	11.66	12.09	12.70	18.08	24.33	29.75	36.00
5745MHz	Pass	11.67	17.29	16.97	17.31	17.82	23.38	24.33	35.05	36.00
5785MHz	Pass	11.67	17.39	17.04	17.16	18.23	23.50	24.33	35.17	36.00
5825MHz	Pass	11.67	17.37	16.70	17.00	17.71	23.23	24.33	34.90	36.00
802.11ac VHT40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	11.67	14.88	15.19	15.68	16.29	21.56	24.33	33.23	36.00
5230MHz	Pass	11.67	15.48	15.56	15.72	16.54	21.87	24.33	33.54	36.00
5755MHz	Pass	11.67	17.49	17.14	17.50	18.13	23.60	24.33	35.27	36.00
5795MHz	Pass	11.67	17.29	16.86	17.03	17.98	23.33	24.33	35.00	36.00
802.11ac VHT80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	11.67	11.56	11.61	11.88	12.53	17.93	24.33	29.60	36.00
5775MHz	Pass	11.67	15.50	15.34	15.61	16.46	21.77	24.33	33.44	36.00
802.11ax HEW20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	11.67	12.11	11.94	12.22	12.72	18.28	24.33	29.95	36.00
5200MHz	Pass	11.67	12.06	12.09	12.44	12.75	18.36	24.33	30.03	36.00
5240MHz	Pass	11.67	11.98	11.71	12.22	12.43	18.11	24.33	29.78	36.00
5745MHz	Pass	11.67	17.42	17.23	17.50	17.94	23.55	24.33	35.22	36.00
5785MHz	Pass	11.67	17.49	17.34	17.52	18.52	23.76	24.33	35.43	36.00
5825MHz	Pass	11.67	17.26	17.09	17.31	18.12	23.48	24.33	35.15	36.00
802.11ax HEW40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	11.67	15.25	15.27	15.61	16.25	21.63	24.33	33.30	36.00
5230MHz	Pass	11.67	15.62	15.61	15.95	16.66	22.00	24.33	33.67	36.00
5755MHz	Pass	11.67	17.71	17.18	17.71	18.35	23.78	24.33	35.45	36.00
5795MHz	Pass	11.67	17.49	17.04	17.26	18.08	23.51	24.33	35.18	36.00
802.11ax HEW80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	11.67	11.45	11.78	12.03	12.56	17.99	24.33	29.66	36.00
5775MHz	Pass	11.67	15.79	15.56	15.78	16.67	21.99	24.33	33.66	36.00

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



Average Power_Non Beamforming_Indoor_Sample 1_Radio 3 Appendix C.3

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.91	0.04909	22.88	0.19409
802.11ac VHT20_Nss1,(MCS0)_2TX	17.36	0.05445	23.33	0.21528
802.11ac VHT40_Nss1,(MCS0)_2TX	18.06	0.06397	24.03	0.25293
802.11ac VHT80_Nss1,(MCS0)_2TX	14.39	0.02748	20.36	0.10864
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.32	0.13552	27.29	0.53580
802.11ac VHT20_Nss1,(MCS0)_2TX	21.32	0.13552	27.29	0.53580
802.11ac VHT40_Nss1,(MCS0)_2TX	21.58	0.14388	27.55	0.56885
802.11ac VHT80_Nss1,(MCS0)_2TX	20.61	0.11508	26.58	0.45499



Average Power_Non Beamforming_Indoor_Sample 1_Radio 3

Appendix C.3

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.97	12.91	13.03	15.98	23.98	21.95	30.00
5200MHz	Pass	5.97	13.71	14.08	16.91	23.98	22.88	30.00
5240MHz	Pass	5.97	14.17	13.62	16.91	23.98	22.88	30.00
5745MHz	Pass	5.97	18.66	17.85	21.28	30.00	27.25	36.00
5785MHz	Pass	5.97	18.80	17.76	21.32	30.00	27.29	36.00
5825MHz	Pass	5.97	17.97	17.69	20.84	30.00	26.81	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.97	14.83	13.81	17.36	23.98	23.33	30.00
5200MHz	Pass	5.97	13.19	12.95	16.08	23.98	22.05	30.00
5240MHz	Pass	5.97	13.07	12.37	15.74	23.98	21.71	30.00
5745MHz	Pass	5.97	18.66	17.86	21.29	30.00	27.26	36.00
5785MHz	Pass	5.97	18.74	17.83	21.32	30.00	27.29	36.00
5825MHz	Pass	5.97	17.91	17.77	20.85	30.00	26.82	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.97	15.56	14.48	18.06	23.98	24.03	30.00
5230MHz	Pass	5.97	13.08	13.01	16.06	23.98	22.03	30.00
5755MHz	Pass	5.97	18.85	18.26	21.58	30.00	27.55	36.00
5795MHz	Pass	5.97	18.83	18.13	21.50	30.00	27.47	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.97	11.51	11.25	14.39	23.98	20.36	30.00
5775MHz	Pass	5.97	17.98	17.19	20.61	30.00	26.58	36.00

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



Average Power_Non Beamforming_Indoor_Sample 2_Radio 1 Appendix C.4

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	25.06	0.32063	29.72	0.93756
802.11ac VHT20_Nss1,(MCS0)_4TX	25.29	0.33806	29.95	0.98855
802.11ac VHT40_Nss1,(MCS0)_4TX	28.15	0.65313	32.81	1.90985
802.11ac VHT80_Nss1,(MCS0)_4TX	21.48	0.14060	26.14	0.41115
802.11ax HEW20_Nss1,(MCS0)_4TX	25.65	0.36728	30.31	1.07399
802.11ax HEW40_Nss1,(MCS0)_4TX	28.37	0.68707	33.03	2.00909
802.11ax HEW80_Nss1,(MCS0)_4TX	21.66	0.14655	26.32	0.42855
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.83	0.96161	34.49	2.81190
802.11ac VHT20_Nss1,(MCS0)_4TX	29.79	0.95280	34.45	2.78612
802.11ac VHT40_Nss1,(MCS0)_4TX	29.93	0.98401	34.59	2.87740
802.11ac VHT80_Nss1,(MCS0)_4TX	27.03	0.50466	31.69	1.47571
802.11ax HEW20_Nss1,(MCS0)_4TX	29.94	0.98628	34.60	2.88403
802.11ax HEW40_Nss1,(MCS0)_4TX	29.99	0.99770	34.65	2.91743
802.11ax HEW80_Nss1,(MCS0)_4TX	27.44	0.55463	32.10	1.62181



Average Power_Non Beamforming Indoor_Sample 2_Radio 1 Appendix C.4

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	4.66	18.54	18.74	19.31	19.22	24.98	30.00	29.64	36.00
5200MHz	Pass	4.66	18.60	18.91	19.36	19.23	25.06	30.00	29.72	36.00
5240MHz	Pass	4.66	18.49	18.57	18.93	19.00	24.77	30.00	29.43	36.00
5745MHz	Pass	4.66	23.79	23.58	23.82	24.03	29.83	30.00	34.49	36.00
5785MHz	Pass	4.66	23.49	23.55	23.55	24.44	29.80	30.00	34.46	36.00
5825MHz	Pass	4.66	23.62	23.32	23.57	24.49	29.79	30.00	34.45	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.66	19.10	18.88	19.86	19.19	25.29	30.00	29.95	36.00
5200MHz	Pass	4.66	18.26	18.53	19.33	18.67	24.74	30.00	29.40	36.00
5240MHz	Pass	4.66	18.78	18.78	19.02	18.90	24.89	30.00	29.55	36.00
5745MHz	Pass	4.66	23.59	23.28	23.74	24.38	29.79	30.00	34.45	36.00
5785MHz	Pass	4.66	23.20	23.30	23.53	24.38	29.65	30.00	34.31	36.00
5825MHz	Pass	4.66	23.30	23.20	23.60	24.49	29.70	30.00	34.36	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.66	18.96	19.02	19.50	20.01	25.41	30.00	30.07	36.00
5230MHz	Pass	4.66	21.78	22.16	22.41	22.15	28.15	30.00	32.81	36.00
5755MHz	Pass	4.66	23.82	23.46	23.81	24.47	29.93	30.00	34.59	36.00
5795MHz	Pass	4.66	23.20	23.12	23.34	24.19	29.50	30.00	34.16	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.66	15.02	15.36	15.37	16.01	21.48	30.00	26.14	36.00
5775MHz	Pass	4.66	20.71	20.60	20.90	21.72	27.03	30.00	31.69	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.66	18.96	19.47	20.16	19.83	25.65	30.00	30.31	36.00
5200MHz	Pass	4.66	18.65	19.15	19.63	19.28	25.21	30.00	29.87	36.00
5240MHz	Pass	4.66	19.07	19.28	19.37	17.72	24.93	30.00	29.59	36.00
5745MHz	Pass	4.66	23.64	23.64	23.81	24.22	29.85	30.00	34.51	36.00
5785MHz	Pass	4.66	23.72	23.93	23.65	24.33	29.94	30.00	34.60	36.00
5825MHz	Pass	4.66	23.52	23.36	23.55	24.02	29.64	30.00	34.30	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.66	19.13	19.54	19.81	19.90	25.63	30.00	30.29	36.00
5230MHz	Pass	4.66	21.84	22.32	22.43	22.74	28.37	30.00	33.03	36.00
5755MHz	Pass	4.66	24.04	23.41	23.87	24.48	29.99	30.00	34.65	36.00
5795MHz	Pass	4.66	23.52	23.29	23.39	24.22	29.64	30.00	34.30	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.66	15.18	15.59	15.77	15.96	21.66	30.00	26.32	36.00
5775MHz	Pass	4.66	21.24	21.01	21.21	22.12	27.44	30.00	32.10	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	19.47	0.08851	29.95	0.98855
802.11ac VHT40,BF_Nss1,(MCS0)_4TX	22.33	0.17100	32.81	1.90985
802.11ac VHT80,BF_Nss1,(MCS0)_4TX	15.66	0.03681	26.14	0.41115
802.11ax HEW20,BF_Nss1,(MCS0)_4TX	19.83	0.09616	30.31	1.07399
802.11ax HEW40,BF_Nss1,(MCS0)_4TX	22.55	0.17989	33.03	2.00909
802.11ax HEW80,BF_Nss1,(MCS0)_4TX	15.84	0.03837	26.32	0.42855
5.725-5.85GHz	-	-	-	-
802.11ac VHT20,BF_Nss1,(MCS0)_4TX	23.97	0.24946	34.45	2.78612
802.11ac VHT40,BF_Nss1,(MCS0)_4TX	24.11	0.25763	34.59	2.87740
802.11ac VHT80,BF_Nss1,(MCS0)_4TX	21.21	0.13213	31.69	1.47571
802.11ax HEW20,BF_Nss1,(MCS0)_4TX	24.12	0.25823	34.60	2.88403
802.11ax HEW40,BF_Nss1,(MCS0)_4TX	24.17	0.26122	34.65	2.91743
802.11ax HEW80,BF_Nss1,(MCS0)_4TX	21.62	0.14521	32.10	1.62181

**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	Pass	10.48	13.28	13.06	14.04	13.37	19.47	25.52	29.95	36.00
5200MHz	Pass	10.48	12.44	12.71	13.51	12.85	18.92	25.52	29.40	36.00
5240MHz	Pass	10.48	12.96	12.96	13.20	13.08	19.07	25.52	29.55	36.00
5745MHz	Pass	10.48	17.77	17.46	17.92	18.56	23.97	25.52	34.45	36.00
5785MHz	Pass	10.48	17.38	17.48	17.71	18.56	23.83	25.52	34.31	36.00
5825MHz	Pass	10.48	17.48	17.38	17.78	18.67	23.88	25.52	34.36	36.00
802.11ac VHT40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	10.48	13.14	13.20	13.68	14.19	19.59	25.52	30.07	36.00
5230MHz	Pass	10.48	15.96	16.34	16.59	16.33	22.33	25.52	32.81	36.00
5755MHz	Pass	10.48	18.00	17.64	17.99	18.65	24.11	25.52	34.59	36.00
5795MHz	Pass	10.48	17.38	17.30	17.52	18.37	23.68	25.52	34.16	36.00
802.11ac VHT80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	10.48	9.20	9.54	9.55	10.19	15.66	25.52	26.14	36.00
5775MHz	Pass	10.48	14.89	14.78	15.08	15.90	21.21	25.52	31.69	36.00
802.11ax HEW20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	10.48	13.14	13.65	14.34	14.01	19.83	25.52	30.31	36.00
5200MHz	Pass	10.48	12.83	13.33	13.81	13.46	19.39	25.52	29.87	36.00
5240MHz	Pass	10.48	13.25	13.46	13.55	11.90	19.11	25.52	29.59	36.00
5745MHz	Pass	10.48	17.82	17.82	17.99	18.40	24.03	25.52	34.51	36.00
5785MHz	Pass	10.48	17.90	18.11	17.83	18.51	24.12	25.52	34.60	36.00
5825MHz	Pass	10.48	17.70	17.54	17.73	18.20	23.82	25.52	34.30	36.00
802.11ax HEW40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	10.48	13.31	13.72	13.99	14.08	19.81	25.52	30.29	36.00
5230MHz	Pass	10.48	16.02	16.50	16.61	16.92	22.55	25.52	33.03	36.00
5755MHz	Pass	10.48	18.22	17.59	18.05	18.66	24.17	25.52	34.65	36.00
5795MHz	Pass	10.48	17.70	17.47	17.57	18.40	23.82	25.52	34.30	36.00
802.11ax HEW80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	10.48	9.36	9.77	9.95	10.14	15.84	25.52	26.32	36.00
5775MHz	Pass	10.48	15.42	15.19	15.39	16.30	21.62	25.52	32.10	36.00

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



Average Power_Non Beamforming_Indoor_Sample 2_Radio 3 Appendix C.6

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.38	0.21777	28.01	0.63241
802.11ac VHT20_Nss1,(MCS0)_2TX	23.31	0.21429	27.94	0.62230
802.11ac VHT40_Nss1,(MCS0)_2TX	22.47	0.17660	27.10	0.51286
802.11ac VHT80_Nss1,(MCS0)_2TX	14.87	0.03069	19.50	0.08913
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.36	0.13677	25.99	0.39719
802.11ac VHT20_Nss1,(MCS0)_2TX	21.56	0.14322	26.19	0.41591
802.11ac VHT40_Nss1,(MCS0)_2TX	21.31	0.13521	25.94	0.39264
802.11ac VHT80_Nss1,(MCS0)_2TX	19.75	0.09441	24.38	0.27416



Average Power_Non Beamforming_Indoor_Sample 2_Radio 3 Appendix C.6

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.63	18.42	17.96	21.21	23.98	25.84	30.00
5200MHz	Pass	4.63	20.61	20.12	23.38	23.98	28.01	30.00
5240MHz	Pass	4.63	19.14	19.66	22.42	23.98	27.05	30.00
5745MHz	Pass	4.63	18.74	17.91	21.36	30.00	25.99	36.00
5785MHz	Pass	4.63	18.3	17.36	20.87	30.00	25.50	36.00
5825MHz	Pass	4.63	17.7	17.4	20.56	30.00	25.19	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.63	18.58	18.31	21.46	23.98	26.09	30.00
5200MHz	Pass	4.63	20.41	20.18	23.31	23.98	27.94	30.00
5240MHz	Pass	4.63	19.18	19.65	22.43	23.98	27.06	30.00
5745MHz	Pass	4.63	19.07	17.96	21.56	30.00	26.19	36.00
5785MHz	Pass	4.63	18.7	17.35	21.09	30.00	25.72	36.00
5825MHz	Pass	4.63	17.95	17.43	20.71	30.00	25.34	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.63	10.98	10.51	13.76	23.98	18.39	30.00
5230MHz	Pass	4.63	20.07	18.76	22.47	23.98	27.10	30.00
5755MHz	Pass	4.63	18.72	17.66	21.23	30.00	25.86	36.00
5795MHz	Pass	4.63	18.83	17.69	21.31	30.00	25.94	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.63	11.1	12.5	14.87	23.98	19.50	30.00
5775MHz	Pass	4.63	17.14	16.3	19.75	30.00	24.38	36.00

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



Average Power_Non Beamforming_Outdoor_Sample 3_Radio 1 Appendix C.7

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.89	0.04887	22.87	0.19364
802.11ac VHT20_Nss1,(MCS0)_4TX	16.71	0.04688	22.69	0.18578
802.11ac VHT40_Nss1,(MCS0)_4TX	16.85	0.04842	22.83	0.19187
802.11ac VHT80_Nss1,(MCS0)_4TX	16.67	0.04645	22.65	0.18408
802.11ax HEW20_Nss1,(MCS0)_4TX	16.97	0.04977	22.95	0.19724
802.11ax HEW40_Nss1,(MCS0)_4TX	17.04	0.05058	23.02	0.20045
802.11ax HEW80_Nss1,(MCS0)_4TX	16.93	0.04932	22.91	0.19543
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.51	0.89331	35.49	3.53997
802.11ac VHT20_Nss1,(MCS0)_4TX	29.14	0.82035	35.12	3.25087
802.11ac VHT40_Nss1,(MCS0)_4TX	29.36	0.86298	35.34	3.41979
802.11ac VHT80_Nss1,(MCS0)_4TX	27.84	0.60814	33.82	2.40991
802.11ax HEW20_Nss1,(MCS0)_4TX	29.51	0.89331	35.49	3.53997
802.11ax HEW40_Nss1,(MCS0)_4TX	29.49	0.88920	35.47	3.52371
802.11ax HEW80_Nss1,(MCS0)_4TX	28.13	0.65013	34.11	2.57632



Average Power_Non Beamforming_Outdoor_Sample 3_Radio 1 Appendix C.7

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	5.98	10.46	10.89	11.00	10.53	16.75	30.00	22.73	36.00
5200MHz	Pass	5.98	10.71	10.46	11.11	10.77	16.79	30.00	22.77	36.00
5240MHz	Pass	5.98	10.37	11.41	11.10	10.53	16.89	30.00	22.87	36.00
5745MHz	Pass	5.98	23.07	23.64	23.91	23.31	29.51	30.00	35.49	36.00
5785MHz	Pass	5.98	22.88	23.48	23.43	23.22	29.28	30.00	35.26	36.00
5825MHz	Pass	5.98	22.85	23.47	23.54	23.39	29.34	30.00	35.32	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.98	10.25	10.75	10.85	10.34	16.58	30.00	22.56	36.00
5200MHz	Pass	5.98	10.30	10.46	10.92	10.38	16.54	30.00	22.52	36.00
5240MHz	Pass	5.98	10.11	11.16	11.00	10.41	16.71	30.00	22.69	36.00
5745MHz	Pass	5.98	22.72	23.26	23.33	22.75	29.04	30.00	35.02	36.00
5785MHz	Pass	5.98	22.48	23.28	23.54	23.05	29.13	30.00	35.11	36.00
5825MHz	Pass	5.98	22.43	23.41	23.45	23.12	29.14	30.00	35.12	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.98	10.83	11.02	10.51	10.76	16.80	30.00	22.78	36.00
5230MHz	Pass	5.98	10.36	11.30	11.00	10.59	16.85	30.00	22.83	36.00
5755MHz	Pass	5.98	23.07	23.51	23.71	23.03	29.36	30.00	35.34	36.00
5795MHz	Pass	5.98	22.91	23.44	23.81	23.13	29.36	30.00	35.34	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.98	10.17	10.92	11.00	10.46	16.67	30.00	22.65	36.00
5775MHz	Pass	5.98	21.35	22.05	22.29	21.54	27.84	30.00	33.82	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.98	10.83	10.96	11.04	10.66	16.90	30.00	22.88	36.00
5200MHz	Pass	5.98	10.76	10.71	11.06	10.91	16.88	30.00	22.86	36.00
5240MHz	Pass	5.98	10.33	11.47	11.07	10.85	16.97	30.00	22.95	36.00
5745MHz	Pass	5.98	22.90	23.39	23.37	23.14	29.23	30.00	35.21	36.00
5785MHz	Pass	5.98	23.22	23.71	23.64	23.15	29.46	30.00	35.44	36.00
5825MHz	Pass	5.98	23.20	23.43	23.73	23.57	29.51	30.00	35.49	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.98	11.13	10.97	11.16	10.82	17.04	30.00	23.02	36.00
5230MHz	Pass	5.98	10.58	11.35	11.10	10.60	16.94	30.00	22.92	36.00
5755MHz	Pass	5.98	23.10	23.66	23.82	23.25	29.49	30.00	35.47	36.00
5795MHz	Pass	5.98	22.93	23.70	23.84	23.37	29.49	30.00	35.47	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.98	10.37	11.14	11.27	10.81	16.93	30.00	22.91	36.00
5775MHz	Pass	5.98	21.54	22.31	22.52	22.01	28.13	30.00	34.11	36.00

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



MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees Result
Non Beamforming_Outdoor_Sample 3_Radio 1

Appendix C.7.1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.89	0.04887	20.82	0.12078
802.11ac VHT20_Nss1,(MCS0)_4TX	16.71	0.04688	20.64	0.11588
802.11ac VHT40_Nss1,(MCS0)_4TX	16.85	0.04842	20.78	0.11967
802.11ac VHT80_Nss1,(MCS0)_4TX	16.67	0.04645	20.60	0.11482
802.11ax HEW20_Nss1,(MCS0)_4TX	16.97	0.04977	20.90	0.12303
802.11ax HEW40_Nss1,(MCS0)_4TX	17.04	0.05058	20.97	0.12503
802.11ax HEW80_Nss1,(MCS0)_4TX	16.93	0.04932	20.86	0.12190



MAX. E.I.R.P. At Any Elevation Angle Above 30 Degrees Result
Non Beamforming Outdoor Sample 3_Radio 1

Appendix C.7.1

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	3.932	10.46	10.89	11.00	10.53	16.75	30.00	20.68	36.00
5200MHz	Pass	3.932	10.71	10.46	11.11	10.77	16.79	30.00	20.72	36.00
5240MHz	Pass	3.932	10.37	11.41	11.10	10.53	16.89	30.00	20.82	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.932	10.25	10.75	10.85	10.34	16.58	30.00	20.51	36.00
5200MHz	Pass	3.932	10.30	10.46	10.92	10.38	16.54	30.00	20.47	36.00
5240MHz	Pass	3.932	10.11	11.16	11.00	10.41	16.71	30.00	20.64	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.932	10.83	11.02	10.51	10.76	16.80	30.00	20.73	36.00
5230MHz	Pass	3.932	10.36	11.30	11.00	10.59	16.85	30.00	20.78	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.932	10.17	10.92	11.00	10.46	16.67	30.00	20.60	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.932	10.83	10.96	11.04	10.66	16.90	30.00	20.83	36.00
5200MHz	Pass	3.932	10.76	10.71	11.06	10.91	16.88	30.00	20.81	36.00
5240MHz	Pass	3.932	10.33	11.47	11.07	10.85	16.97	30.00	20.90	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.932	11.13	10.97	11.16	10.82	17.04	30.00	20.97	36.00
5230MHz	Pass	3.932	10.58	11.35	11.10	10.60	16.94	30.00	20.87	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.932	10.37	11.14	11.27	10.81	16.93	30.00	20.86	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	11.02	0.01265	22.69	0.18578
802.11ac VHT40,BF_Nss1,(MCS0)_4TX	11.16	0.01306	22.83	0.19187
802.11ac VHT80,BF_Nss1,(MCS0)_4TX	10.98	0.01253	22.65	0.18408
802.11ax HEW20,BF_Nss1,(MCS0)_4TX	11.28	0.01343	22.95	0.19724
802.11ax HEW40,BF_Nss1,(MCS0)_4TX	11.35	0.01365	23.02	0.20045
802.11ax HEW80,BF_Nss1,(MCS0)_4TX	11.24	0.01330	22.91	0.19543
5.725-5.85GHz	-	-	-	-
802.11ac VHT20,BF_Nss1,(MCS0)_4TX	23.45	0.22131	35.12	3.25087
802.11ac VHT40,BF_Nss1,(MCS0)_4TX	23.67	0.23281	35.34	3.41979
802.11ac VHT80,BF_Nss1,(MCS0)_4TX	22.15	0.16406	33.82	2.40991
802.11ax HEW20,BF_Nss1,(MCS0)_4TX	23.82	0.24099	35.49	3.53997
802.11ax HEW40,BF_Nss1,(MCS0)_4TX	23.80	0.23988	35.47	3.52371
802.11ax HEW80,BF_Nss1,(MCS0)_4TX	22.44	0.17539	34.11	2.57632



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	Pass	11.67	4.56	5.06	5.16	4.65	10.89	24.33	22.56	36.00
5200MHz	Pass	11.67	4.61	4.77	5.23	4.69	10.85	24.33	22.52	36.00
5240MHz	Pass	11.67	4.42	5.47	5.31	4.72	11.02	24.33	22.69	36.00
5745MHz	Pass	11.67	17.03	17.57	17.64	17.06	23.35	24.33	35.02	36.00
5785MHz	Pass	11.67	16.79	17.59	17.85	17.36	23.44	24.33	35.11	36.00
5825MHz	Pass	11.67	16.74	17.72	17.76	17.43	23.45	24.33	35.12	36.00
802.11ac VHT40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	11.67	5.14	5.33	4.82	5.07	11.11	24.33	22.78	36.00
5230MHz	Pass	11.67	4.67	5.61	5.31	4.90	11.16	24.33	22.83	36.00
5755MHz	Pass	11.67	17.38	17.82	18.02	17.34	23.67	24.33	35.34	36.00
5795MHz	Pass	11.67	17.22	17.75	18.12	17.44	23.67	24.33	35.34	36.00
802.11ac VHT80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	11.67	4.48	5.23	5.31	4.77	10.98	24.33	22.65	36.00
5775MHz	Pass	11.67	15.66	16.36	16.60	15.85	22.15	24.33	33.82	36.00
802.11ax HEW20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	11.67	5.14	5.27	5.35	4.97	11.21	24.33	22.88	36.00
5200MHz	Pass	11.67	5.07	5.02	5.37	5.22	11.19	24.33	22.86	36.00
5240MHz	Pass	11.67	4.64	5.78	5.38	5.16	11.28	24.33	22.95	36.00
5745MHz	Pass	11.67	17.21	17.70	17.68	17.45	23.54	24.33	35.21	36.00
5785MHz	Pass	11.67	17.53	18.02	17.95	17.46	23.77	24.33	35.44	36.00
5825MHz	Pass	11.67	17.51	17.74	18.04	17.88	23.82	24.33	35.49	36.00
802.11ax HEW40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	11.67	5.44	5.28	5.47	5.13	11.35	24.33	23.02	36.00
5230MHz	Pass	11.67	4.89	5.66	5.41	4.91	11.25	24.33	22.92	36.00
5755MHz	Pass	11.67	17.41	17.97	18.13	17.56	23.80	24.33	35.47	36.00
5795MHz	Pass	11.67	17.24	18.01	18.15	17.68	23.80	24.33	35.47	36.00
802.11ax HEW80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	11.67	4.68	5.45	5.58	5.12	11.24	24.33	22.91	36.00
5775MHz	Pass	11.67	15.85	16.62	16.83	16.32	22.44	24.33	34.11	36.00

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



Average Power_Non Beamforming_Outdoor_Sample 3_Radio 3 Appendix C.9

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.83	0.12106	26.80	0.47863
802.11ac VHT20_Nss1,(MCS0)_2TX	21.25	0.13335	27.22	0.52723
802.11ac VHT40_Nss1,(MCS0)_2TX	23.13	0.20559	29.10	0.81283
802.11ac VHT80_Nss1,(MCS0)_2TX	16.53	0.04498	22.50	0.17783
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.61	0.14488	27.58	0.57280
802.11ac VHT20_Nss1,(MCS0)_2TX	21.68	0.14723	27.65	0.58210
802.11ac VHT40_Nss1,(MCS0)_2TX	22.53	0.17906	28.50	0.70795
802.11ac VHT80_Nss1,(MCS0)_2TX	21.66	0.14655	27.63	0.57943



Average Power_Non Beamforming_Outdoor_Sample 3_Radio 3 Appendix C.9

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.97	17.49	17.13	20.32	23.98	26.29	30.00
5200MHz	Pass	5.97	17.68	17.47	20.59	23.98	26.56	30.00
5240MHz	Pass	5.97	18.12	17.50	20.83	23.98	26.80	30.00
5745MHz	Pass	5.97	18.87	18.31	21.61	30.00	27.58	36.00
5785MHz	Pass	5.97	18.58	18.43	21.52	30.00	27.49	36.00
5825MHz	Pass	5.97	18.94	18.13	21.56	30.00	27.53	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.97	17.95	17.77	20.87	23.98	26.84	30.00
5200MHz	Pass	5.97	18.14	17.87	21.02	23.98	26.99	30.00
5240MHz	Pass	5.97	18.40	18.07	21.25	23.98	27.22	30.00
5745MHz	Pass	5.97	18.69	18.21	21.47	30.00	27.44	36.00
5785MHz	Pass	5.97	17.93	18.29	21.12	30.00	27.09	36.00
5825MHz	Pass	5.97	18.51	18.82	21.68	30.00	27.65	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	5.97	16.35	16.24	19.31	23.98	25.28	30.00
5230MHz	Pass	5.97	19.92	20.32	23.13	23.98	29.10	30.00
5755MHz	Pass	5.97	19.47	19.32	22.41	30.00	28.38	36.00
5795MHz	Pass	5.97	19.49	19.55	22.53	30.00	28.50	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	5.97	13.62	13.42	16.53	23.98	22.50	30.00
5775MHz	Pass	5.97	18.61	18.68	21.66	30.00	27.63	36.00

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



**Average Power_
Non Beamforming_Outdoor_Sample 4_Radio 1**

Appendix C.10

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.97	0.12503	27.06	0.50816
802.11ac VHT20_Nss1,(MCS0)_4TX	20.73	0.11830	26.82	0.48084
802.11ac VHT40_Nss1,(MCS0)_4TX	20.91	0.12331	27.00	0.50119
802.11ac VHT80_Nss1,(MCS0)_4TX	20.73	0.11830	26.82	0.48084
802.11ax HEW20_Nss1,(MCS0)_4TX	20.97	0.12503	27.06	0.50816
802.11ax HEW40_Nss1,(MCS0)_4TX	20.99	0.12560	27.08	0.51050
802.11ax HEW80_Nss1,(MCS0)_4TX	20.99	0.12560	27.08	0.51050
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.36	0.86298	35.45	3.50752
802.11ac VHT20_Nss1,(MCS0)_4TX	29.18	0.82794	35.27	3.36512
802.11ac VHT40_Nss1,(MCS0)_4TX	28.79	0.75683	34.88	3.07610
802.11ac VHT80_Nss1,(MCS0)_4TX	26.69	0.46666	32.78	1.89671
802.11ax HEW20_Nss1,(MCS0)_4TX	29.26	0.84333	35.35	3.42768
802.11ax HEW40_Nss1,(MCS0)_4TX	29.05	0.80353	35.14	3.26588
802.11ax HEW80_Nss1,(MCS0)_4TX	27.13	0.51642	33.22	2.09894