



FCC RADIO TEST REPORT

FCC ID : QXO-AP410
Equipment : Wireless Access Point
Brand Name : Extreme Networks, Inc.
Model Name : AP410i, AP410e
Applicant : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119, United States
Manufacturer : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119, United States
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 20, 2019, and testing was started from Sep. 26, 2019 and completed on Nov. 05, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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


Approved by: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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Photographs of EUT v01



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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: **Sam Chen**

Report Producer: **Wendy Pan**



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 (HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX, 2TX, 4TX
5.15-5.25GHz	802.11n HT20	20	1TX, 2TX, 4TX
5.15-5.25GHz	802.11n HT20-BF	20	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ac VHT20	20	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ax HEW20	20	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ax HEW20-BF	20	1TX, 2TX, 4TX
5.15-5.25GHz	802.11n HT40	40	1TX, 2TX, 4TX
5.15-5.25GHz	802.11n HT40-BF	40	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ac VHT40	40	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ax HEW40	40	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ac VHT80	80	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ax HEW80	80	1TX, 2TX, 4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	1TX, 2TX, 4TX
5.725-5.85GHz	802.11a	20	1TX, 2TX, 4TX
5.725-5.85GHz	802.11n HT20	20	1TX, 2TX, 4TX
5.725-5.85GHz	802.11n HT20-BF	20	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ac VHT20	20	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ax HEW20	20	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	1TX, 2TX, 4TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11n HT40	40	1TX, 2TX, 4TX
5.725-5.85GHz	802.11n HT40-BF	40	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ac VHT40	40	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ax HEW40	40	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ac VHT80	80	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ax HEW80	80	1TX, 2TX, 4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	1TX, 2TX, 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.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.



1.1.2 Antenna Information

For Internal antenna EUT:

Ant.	Brand	Model Number (P/N)	Antenna Type	Connector	Antenna Gain (dBi)			Remark
					WLAN 2.4GHz	WLAN 5GHz	BLE/Thread	
1	SENAO	5718A0474300	PIFA	IPEX	4.56	-	-	Radio 1
2	SENAO	5718A0475300	PIFA	IPEX	4.56	-	-	Radio 1
3	SENAO	5718A0476300	PIFA	IPEX	4.47	5.02	-	Radio 3
4	SENAO	5718A0477300	PIFA	IPEX	4.47	5.02	-	Radio 3
5	SENAO	5718A0478300	PIFA	IPEX	-	5.36	-	Radio 2
6	SENAO	5718A0479300	PIFA	IPEX	-	5.36	-	Radio 2
7	SENAO	5718A0480300	PIFA	IPEX	-	5.36	-	Radio 2
8	SENAO	5718A0481300	PIFA	IPEX	-	5.36	-	Radio 2
9	SENAO	5718A0482300	PIFA	IPEX	-	-	4.37	Radio 4

Note: The above information was declared by manufacturer.

For Radio 1 and Radio 3:

For IEEE 802.11a/b/g/n/ac/ax mode (1TX, 2TX/2RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For Radio 2:

For IEEE 802.11a/n/ac/ax mode (1TX, 2TX, 4TX/4RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

For Radio 4 (1TX/1RX):

Only Port 1 can be use as transmitting/receiving antenna.



For External antenna EUT:

Ant.	Brand	Model Number (P/N)	Antenna Type	Connector	Antenna Gain (dBi)		
					WLAN 2.4GHz	WLAN 5GHz	BLE/Thread
1	Extreme	ML-2452-APA2-01	Omni	RP SMA male	3.17	4.85	-
2	Extreme	ML-2452-APA2-02	Omni	RP SMA male	3.17	4.85	-
3	Extreme	ML-2452-HPA5-036	Omni	RP SMA male	3.9	5.7	-
4	Extreme	ML-2452-HPAG4A6-01	Omni	N male	4.0	7.3	-
5	Extreme	ML-2452-PNA5-01R	Panel	Type N-Male	4.5	5.0	-
6	Extreme	ML-2452-PTA4M4-036	Omni	Rev-Polarity SMA Male 4x	5.0	6.6	-
7	Extreme	ML-2452-HPAG5A8-01	Omni	N male	5.0	8.0	-
8	Extreme	WS-AO-DQ04360N	Omni	N male	5.5	6.0	-
9	Extreme	AI-DQ04360S	Omni	RP SMA male	5.5	6.0	-
10	Extreme	ML-2452-SEC6M4-036 / WS-AI-DQ05120	Panel	RP SMA male	6.92	7.23	-
11	Extreme	WS-AI-DE07025	Panel	RP SMA male	7.50	6.50	-
12	Extreme	ML-2452-PNA7-01R	Panel	Type N-Male	7.8	10.7	7.8
13	Extreme	WS-AI-DE10055	Panel	RP SMA male	10.5	7.5	-
14	Extreme	ML-2499-HPA8-01	Dipole	N male	-	-	8.0

Radio	EUT icon			
	Port 1	Port 2	Port 3	Port 4
1	2.4G/5G-1	2.4G/5G-2	-	-
2	2.4G/5G-1	2.4G/5G-2	5G-3	5G-4
3	2.4G/5G-5	2.4G/5G-6	-	-
4	BLE	-	-	-

Note: 1.The above information was declared by manufacturer.

2.Ant. 1~14 are the different antenna type in the antenna list. Only the highest gain antenna was selected from each different type of antenna to test and record in this report. for 2.4GHz is Ant.7, Ant.12 and Ant.13 and for 5GHz is Ant.7 and Ant.12 and for BTLE/Thread is Ant.12 and Ant.14 were selected to perform the test and recorded in this report.

For Radio 1 and Radio 3:

For IEEE 802.11a/b/g/n/ac/ax mode (1TX, 2TX/2RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.



For Radio 2:

For IEEE 802.11a/n/ac/ax mode (1TX, 2TX, 4TX/4RX):

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

For Radio 4 (1TX/1RX):

Only Port 1 can be use as transmitting/receiving antenna.



1.1.3 Mode Test Duty Cycle

For Radio 2

For 1TX Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.948	0.23	2.068m	1k
802.11ac VHT20	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.973	0.12	1.935m	1k
802.11ac VHT80	0.943	0.25	461.25u	3k
802.11ax HEW20	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.962	0.17	773.75u	3k
802.11ax HEW80	0.929	0.32	402.5u	3k

For 2TX Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.953	0.21	2.068m	1k
802.11ac VHT20	0.978	0.1	5.007m	300
802.11ac VHT40	0.957	0.19	5.007m	300
802.11ac VHT80	0.912	0.4	2.003m	1k
802.11ax HEW20	0.965	0.15	782.5u	3k
802.11ax HEW40	0.934	0.3	425u	3k
802.11ax HEW80	0.895	0.48	242.5u	10k

For 4T1S Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.948	0.23	2.068m	1k
802.11ac VHT20	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.973	0.12	1.935m	1k
802.11ac VHT80	0.943	0.25	461.25u	3k
802.11ax HEW20	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.962	0.17	773.75u	3k
802.11ax HEW80	0.929	0.32	402.5u	3k

For 4T4S Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ac VHT20	0.948	0.23	525u	3k
802.11ac VHT40	0.908	0.42	280.625u	10k
802.11ac VHT80	0.846	0.73	160.625u	10k
802.11ax HEW20	0.934	0.3	437.5u	3k
802.11ax HEW40	0.897	0.47	261.25u	10k
802.11ax HEW80	0.842	0.75	170u	10k



For 4TXBF Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.985	0.07	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ac VHT40-BF	0.973	0.12	1.935m	1k
802.11ac VHT80-BF	0.945	0.25	950u	3k
802.11ax HEW20-BF	0.858	0.67	1.505m	1k
802.11ax HEW40-BF	0.892	0.5	2.265m	1k
802.11ax HEW80-BF	0.928	0.32	3.865m	300

**For Radio 3****For 1TX Mode:**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.95	0.22	2.068m	1k
802.11ac VHT20	0.99	0.04	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ac VHT40	0.971	0.13	5.007m	300
802.11ac VHT80	0.926	0.33	5.007m	300
802.11ax HEW20	0.981	0.08	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ax HEW40	0.965	0.15	775u	3k
802.11ax HEW80	0.931	0.31	405u	3k

For 2TX Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.948	0.23	2.068m	1k
802.11ac VHT20	0.981	0.08	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ac VHT40	0.925	0.34	5.007m	300
802.11ac VHT80	0.845	0.73	252.174u	10k
802.11ax HEW20	0.965	0.15	782.5u	3k
802.11ax HEW40	0.934	0.3	425u	3k
802.11ax HEW80	0.895	0.48	242.5u	10k

For 2TXBF Mode:

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.986	0.06	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ac VHT40-BF	0.97	0.13	945.333u	3k
802.11ac VHT80-BF	0.942	0.26	457.333u	3k
802.11ax HEW20-BF	0.885	0.53	1.505m	1k
802.11ax HEW40-BF	0.876	0.57	2.225m	1k
802.11ax HEW80-BF	0.928	0.32	3.842m	300

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.



1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE		
Beamforming Function	<input checked="" type="checkbox"/> With beamforming	<input type="checkbox"/> Without beamforming	
	For VHT20/40 and 802.11n/ax in 2.4GHz and 802.11n/ac/ax in 5GHz.		
Function	<input type="checkbox"/> Outdoor P2M	<input checked="" type="checkbox"/> Indoor P2M	
	<input type="checkbox"/> Fixed P2P	<input type="checkbox"/> Client	
Test Software Version	Mtool V3.1.0.1		

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	EUT	Description
AP410i	EUT 1	The "i" in AP410i indicates that it comes with internal antennas and the "e" in AP410e indicates that the access point comes with external antenna connectors.
AP410e	EUT 2	



1.2 Applicable Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ FCC KDB 789033 D02 v02r01
- ◆ FCC KDB 662911 D01 v02r01
- ◆ FCC KDB 412172 D01 v01r01
- ◆ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Owen Hsu	24.4~25.2°C / 61~62%	Sep. 26, 2019 ~ Oct. 30, 2019
Radiated<1GHz	03CH05-CB	Bruce Yang	23.4~24°C / 59~62%	Sep. 23, 2019 ~ Oct. 25, 2019
Radiated>1GHz	03CH04-CB	Bruce Yang	24.2~24.9°C / 52~55%	Sep. 23, 2019 ~ Oct. 25, 2019
AC Conduction	CO01-CB	Wei Li	24.3~24.9°C / 55~60%	Nov. 05, 2019

Test site Designation No. TW0006 with FCC
 Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Radio 2
For Internal Antenna
For 1TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	86	21.5
5200MHz	105	26.25
5240MHz	101	25.25
5745MHz	116	29
5785MHz	120	30
5825MHz	120	30
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-
5180MHz	82	20.5
5200MHz	101	25.25
5240MHz	99	24.75
5745MHz	116	29
5785MHz	120	30
5825MHz	118	29.5
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-
5190MHz	74	18.5
5230MHz	93	23.25
5755MHz	103	25.75
5795MHz	114	28.5
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-
5210MHz	73	18.25
5775MHz	93	23.25
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	82	20.5
5200MHz	101	25.25
5240MHz	99	24.75
5745MHz	116	29
5785MHz	120	30
5825MHz	118	29.5
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	74	18.5
5230MHz	93	23.25
5755MHz	103	25.75



Mode	PowerSetting	PowerSetting (dBm)
5795MHz	114	28.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5210MHz	73	18.25
5775MHz	93	23.25



For 2TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	78	19.5
5200MHz	97	24.25
5240MHz	90	22.5
5745MHz	112	28
5785MHz	120	30
5825MHz	113	28.25
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-
5180MHz	73	18.25
5200MHz	91	22.75
5240MHz	89	22.25
5745MHz	112	28
5785MHz	120	30
5825MHz	112	28
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-
5190MHz	65	16.25
5230MHz	86	21.5
5755MHz	95	23.75
5795MHz	99	24.75
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-
5210MHz	65	16.25
5775MHz	82	20.5
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	73	18.25
5200MHz	91	22.75
5240MHz	89	22.25
5745MHz	112	28
5785MHz	120	30
5825MHz	112	28
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	65	16.25
5230MHz	86	21.5
5755MHz	95	23.75
5795MHz	99	24.75
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	65	16.25
5775MHz	82	20.5

**For 4T1S Mode:**

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-
5180MHz	78	19.5
5200MHz	79	19.75
5240MHz	78	19.5
5745MHz	112	28
5785MHz	109	27.25
5825MHz	111	27.75
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-
5180MHz	69	17.25
5200MHz	80	20
5240MHz	79	19.75
5745MHz	106	26.5
5785MHz	110	27.5
5825MHz	108	27
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-
5190MHz	63	15.75
5230MHz	83	20.75
5755MHz	93	23.25
5795MHz	98	24.5
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-
5210MHz	61	15.25
5775MHz	76	19
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-
5180MHz	69	17.25
5200MHz	80	20
5240MHz	79	19.75
5745MHz	106	26.5
5785MHz	110	27.5
5825MHz	108	27
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-
5190MHz	63	15.75
5230MHz	83	20.75
5755MHz	93	23.25
5795MHz	98	24.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-
5210MHz	61	15.25
5775MHz	76	19
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-
5180MHz	75	18.75



Mode	PowerSetting	PowerSetting (dBm)
5200MHz	79	19.75
5240MHz	79	19.75
5745MHz	82	20.5
5785MHz	84	21
5825MHz	86	21.5
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-
5190MHz	68	17
5230MHz	81	20.25
5755MHz	81	20.25
5795MHz	84	21
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-
5210MHz	65	16.25
5775MHz	80	20
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-
5180MHz	75	18.75
5200MHz	79	19.75
5240MHz	79	19.75
5745MHz	82	20.5
5785MHz	84	21
5825MHz	86	21.5
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-
5190MHz	68	17
5230MHz	81	20.25
5755MHz	81	20.25
5795MHz	84	21
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-
5210MHz	65	16.25
5775MHz	80	20

**For 4T4S Mode:**

Mode	PowerSetting	PowerSetting (dBm)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-
5180MHz	72	18
5200MHz	89	22.25
5240MHz	91	22.75
5745MHz	106	26.5
5785MHz	106	26.5
5825MHz	106	26.5
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-
5190MHz	64	16
5230MHz	82	20.5
5755MHz	94	23.5
5795MHz	99	24.75
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-
5210MHz	60	15
5775MHz	80	20
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-
5180MHz	72	18
5200MHz	89	22.25
5240MHz	91	22.75
5745MHz	106	26.5
5785MHz	106	26.5
5825MHz	106	26.5
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-
5190MHz	64	16
5230MHz	82	20.5
5755MHz	94	23.5
5795MHz	99	24.75
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-
5210MHz	60	15
5775MHz	80	20



For External Antenna 7
For 1TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	75	18.75
5200MHz	95	23.75
5240MHz	89	22.25
5745MHz	120	30
5785MHz	120	30
5825MHz	120	30
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-
5180MHz	71	17.75
5200MHz	90	22.5
5240MHz	88	22
5745MHz	103	25.75
5785MHz	120	30
5825MHz	103	25.75
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-
5190MHz	62	15.5
5230MHz	83	20.75
5755MHz	94	23.5
5795MHz	101	25.25
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-
5210MHz	62	15.5
5775MHz	78	19.5
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	71	17.75
5200MHz	90	22.5
5240MHz	88	22
5745MHz	103	25.75
5785MHz	120	30
5825MHz	103	25.75
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	62	15.5
5230MHz	83	20.75
5755MHz	94	23.5
5795MHz	101	25.25
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5210MHz	62	15.5
5775MHz	78	19.5

**For 2TX Mode:**

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	71	17.75
5200MHz	90	22.5
5240MHz	87	21.75
5745MHz	101	25.25
5785MHz	120	30
5825MHz	99	24.75
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-
5180MHz	67	16.75
5200MHz	85	21.25
5240MHz	86	21.5
5745MHz	99	24.75
5785MHz	120	30
5825MHz	95	23.75
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-
5190MHz	59	14.75
5230MHz	79	19.75
5755MHz	87	21.75
5795MHz	86	21.5
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-
5210MHz	55	13.75
5775MHz	76	19
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	67	16.75
5200MHz	85	21.25
5240MHz	86	21.5
5745MHz	99	24.75
5785MHz	120	30
5825MHz	95	23.75
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	59	14.75
5230MHz	79	19.75
5755MHz	87	21.75
5795MHz	86	21.5
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	55	13.75
5775MHz	76	19



For 4T1S Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-
5180MHz	59	14.75
5200MHz	66	16.5
5240MHz	66	16.5
5745MHz	95	23.75
5785MHz	95	23.75
5825MHz	95	23.75
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-
5180MHz	62	15.5
5200MHz	67	16.75
5240MHz	67	16.75
5745MHz	93	23.25
5785MHz	93	23.25
5825MHz	95	23.75
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-
5190MHz	51	12.75
5230MHz	74	18.5
5755MHz	80	20
5795MHz	87	21.75
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-
5210MHz	45	11.25
5775MHz	65	16.25
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-
5180MHz	62	15.5
5200MHz	67	16.75
5240MHz	67	16.75
5745MHz	93	23.25
5785MHz	93	23.25
5825MHz	95	23.75
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-
5190MHz	51	12.75
5230MHz	74	18.5
5755MHz	80	20
5795MHz	87	21.75
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-
5210MHz	45	11.25
5775MHz	65	16.25
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-
5180MHz	63	15.75



Mode	PowerSetting	PowerSetting (dBm)
5200MHz	63	15.75
5240MHz	63	15.75
5745MHz	64	16
5785MHz	64	16
5825MHz	65	16.25
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-
5190MHz	55	13.75
5230MHz	65	16.25
5755MHz	64	16
5795MHz	64	16
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-
5210MHz	46	11.5
5775MHz	65	16.25
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-
5180MHz	63	15.75
5200MHz	63	15.75
5240MHz	63	15.75
5745MHz	64	16
5785MHz	64	16
5825MHz	65	16.25
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-
5190MHz	55	13.75
5230MHz	65	16.25
5755MHz	64	16
5795MHz	64	16
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-
5210MHz	46	11.5
5775MHz	65	16.25



For 4T4S Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-
5180MHz	64	16
5200MHz	83	20.75
5240MHz	86	21.5
5745MHz	94	23.5
5785MHz	95	23.75
5825MHz	97	24.25
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-
5190MHz	51	12.75
5230MHz	75	18.75
5755MHz	83	20.75
5795MHz	88	22
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-
5210MHz	50	12.5
5775MHz	72	18
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-
5180MHz	64	16
5200MHz	83	20.75
5240MHz	86	21.5
5745MHz	94	23.5
5785MHz	95	23.75
5825MHz	97	24.25
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-
5190MHz	51	12.75
5230MHz	75	18.75
5755MHz	83	20.75
5795MHz	88	22
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-
5210MHz	50	12.5
5775MHz	72	18



For External Antenna 12
For 1TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	74	18.5
5200MHz	92	23
5240MHz	89	22.25
5745MHz	103	25.75
5785MHz	120	30
5825MHz	103	25.75
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-
5180MHz	71	17.75
5200MHz	87	21.75
5240MHz	88	22
5745MHz	103	25.75
5785MHz	103	25.75
5825MHz	103	25.75
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-
5190MHz	61	15.25
5230MHz	80	20
5755MHz	91	22.75
5795MHz	95	23.75
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-
5210MHz	60	15
5775MHz	75	18.75
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	71	17.75
5200MHz	87	21.75
5240MHz	88	22
5745MHz	103	25.75
5785MHz	103	25.75
5825MHz	103	25.75
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	61	15.25
5230MHz	80	20
5755MHz	91	22.75
5795MHz	95	23.75
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5210MHz	60	15
5775MHz	75	18.75



For 2TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	68	17
5200MHz	76	19
5240MHz	76	19
5745MHz	95	23.75
5785MHz	95	23.75
5825MHz	97	24.25
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-
5180MHz	67	16.75
5200MHz	85	21.25
5240MHz	86	21.5
5745MHz	94	23.5
5785MHz	94	23.5
5825MHz	96	24
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-
5190MHz	59	14.75
5230MHz	79	19.75
5755MHz	85	21.25
5795MHz	86	21.5
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-
5210MHz	55	13.75
5775MHz	70	17.5
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	67	16.75
5200MHz	85	21.25
5240MHz	86	21.5
5745MHz	94	23.5
5785MHz	94	23.5
5825MHz	96	24
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	59	14.75
5230MHz	79	19.75
5755MHz	85	21.25
5795MHz	86	21.5
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	55	13.75
5775MHz	70	17.5



For 4T1S Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-
5180MHz	53	13.25
5200MHz	53	13.25
5240MHz	53	13.25
5745MHz	78	19.5
5785MHz	78	19.5
5825MHz	80	20
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-
5180MHz	54	13.5
5200MHz	54	13.5
5240MHz	54	13.5
5745MHz	77	19.25
5785MHz	78	19.5
5825MHz	80	20
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-
5190MHz	46	11.5
5230MHz	67	16.75
5755MHz	77	19.25
5795MHz	80	20
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-
5210MHz	42	10.5
5775MHz	59	14.75
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-
5180MHz	54	13.5
5200MHz	54	13.5
5240MHz	54	13.5
5745MHz	77	19.25
5785MHz	78	19.5
5825MHz	80	20
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-
5190MHz	46	11.5
5230MHz	67	16.75
5755MHz	77	19.25
5795MHz	80	20
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-
5210MHz	42	10.5
5775MHz	59	14.75
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-
5180MHz	51	12.75



Mode	PowerSetting	PowerSetting (dBm)
5200MHz	50	12.5
5240MHz	50	12.5
5745MHz	49	12.25
5785MHz	50	12.5
5825MHz	51	12.75
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-
5190MHz	44	11
5230MHz	51	12.75
5755MHz	51	12.75
5795MHz	52	13
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-
5210MHz	41	10.25
5775MHz	51	12.75
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-
5180MHz	51	12.75
5200MHz	50	12.5
5240MHz	50	12.5
5745MHz	49	12.25
5785MHz	50	12.5
5825MHz	51	12.75
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-
5190MHz	44	11
5230MHz	51	12.75
5755MHz	51	12.75
5795MHz	52	13
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-
5210MHz	41	10.25
5775MHz	51	12.75



For 4T4S Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-
5180MHz	61	15.25
5200MHz	78	19.5
5240MHz	78	19.5
5745MHz	77	19.25
5785MHz	77	19.25
5825MHz	79	19.75
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-
5190MHz	49	12.25
5230MHz	73	18.25
5755MHz	79	19.75
5795MHz	80	20
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-
5210MHz	46	11.5
5775MHz	61	15.25
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-
5180MHz	61	15.25
5200MHz	78	19.5
5240MHz	78	19.5
5745MHz	77	19.25
5785MHz	77	19.25
5825MHz	79	19.75
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-
5190MHz	49	12.25
5230MHz	73	18.25
5755MHz	79	19.75
5795MHz	80	20
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-
5210MHz	46	11.5
5775MHz	61	15.25



For Radio 3
For Internal Antenna
For 1TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	90	22.5
5200MHz	102	25.5
5240MHz	97	24.25
5745MHz	92	23
5785MHz	88	22
5825MHz	93	23.25
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-
5180MHz	86	21.5
5200MHz	100	25
5240MHz	95	23.75
5745MHz	92	23
5785MHz	89	22.25
5825MHz	94	23.5
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-
5190MHz	76	19
5230MHz	94	23.5
5755MHz	93	23.25
5795MHz	93	23.25
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-
5210MHz	76	19
5775MHz	87	21.75
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	86	21.5
5200MHz	100	25
5240MHz	95	23.75
5745MHz	92	23
5785MHz	89	22.25
5825MHz	94	23.5
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	76	19
5230MHz	94	23.5
5755MHz	93	23.25
5795MHz	93	23.25
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5210MHz	76	19
5775MHz	87	21.75



For 2TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	86	21.5
5200MHz	98	24.5
5240MHz	91	22.75
5745MHz	91	22.75
5785MHz	88	22
5825MHz	87	21.75
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-
5180MHz	81	20.25
5200MHz	95	23.75
5240MHz	89	22.25
5745MHz	95	23.75
5785MHz	89	22.25
5825MHz	95	23.75
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-
5190MHz	69	17.25
5230MHz	89	22.25
5755MHz	94	23.5
5795MHz	90	22.5
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-
5210MHz	71	17.75
5775MHz	85	21.25
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	81	20.25
5200MHz	95	23.75
5240MHz	89	22.25
5745MHz	95	23.75
5785MHz	89	22.25
5825MHz	95	23.75
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	69	17.25
5230MHz	89	22.25
5755MHz	94	23.5
5795MHz	90	22.5
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	71	17.75
5775MHz	85	21.25
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-
5180MHz	76	19



Mode	PowerSetting	PowerSetting (dBm)
5200MHz	94	23.5
5240MHz	90	22.5
5745MHz	83	20.75
5785MHz	81	20.25
5825MHz	86	21.5
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-
5190MHz	70	17.5
5230MHz	89	22.25
5755MHz	82	20.5
5795MHz	82	20.5
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-
5210MHz	73	18.25
5775MHz	83	20.75
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-
5180MHz	76	19
5200MHz	94	23.5
5240MHz	90	22.5
5745MHz	83	20.75
5785MHz	81	20.25
5825MHz	86	21.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-
5190MHz	70	17.5
5230MHz	89	22.25
5755MHz	82	20.5
5795MHz	82	20.5
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-
5210MHz	73	18.25
5775MHz	83	20.75



For External Antenna 7
For 1TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	83	20.75
5200MHz	98	24.5
5240MHz	95	23.75
5745MHz	89	22.25
5785MHz	79	19.75
5825MHz	88	22
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-
5180MHz	80	20
5200MHz	96	24
5240MHz	93	23.25
5745MHz	81	20.25
5785MHz	85	21.25
5825MHz	95	23.75
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-
5190MHz	68	17
5230MHz	90	22.5
5755MHz	91	22.75
5795MHz	85	21.25
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-
5210MHz	70	17.5
5775MHz	83	20.75
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	80	20
5200MHz	96	24
5240MHz	93	23.25
5745MHz	81	20.25
5785MHz	85	21.25
5825MHz	95	23.75
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	68	17
5230MHz	90	22.5
5755MHz	91	22.75
5795MHz	85	21.25
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5210MHz	70	17.5
5775MHz	83	20.75



For 2TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	73	18.25
5200MHz	89	22.25
5240MHz	87	21.75
5745MHz	83	20.75
5785MHz	78	19.5
5825MHz	84	21
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-
5180MHz	73	18.25
5200MHz	86	21.5
5240MHz	86	21.5
5745MHz	87	21.75
5785MHz	83	20.75
5825MHz	85	21.25
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-
5190MHz	64	16
5230MHz	83	20.75
5755MHz	83	20.75
5795MHz	85	21.25
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-
5210MHz	63	15.75
5775MHz	72	18
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	73	18.25
5200MHz	86	21.5
5240MHz	86	21.5
5745MHz	87	21.75
5785MHz	83	20.75
5825MHz	85	21.25
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	64	16
5230MHz	83	20.75
5755MHz	83	20.75
5795MHz	85	21.25
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	63	15.75
5775MHz	72	18
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-
5180MHz	72	18



Mode	PowerSetting	PowerSetting (dBm)
5200MHz	86	21.5
5240MHz	86	21.5
5745MHz	72	18
5785MHz	77	19.25
5825MHz	79	19.75
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-
5190MHz	65	16.25
5230MHz	85	21.25
5755MHz	79	19.75
5795MHz	81	20.25
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-
5210MHz	61	15.25
5775MHz	78	19.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-
5180MHz	72	18
5200MHz	86	21.5
5240MHz	86	21.5
5745MHz	72	18
5785MHz	77	19.25
5825MHz	79	19.75
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-
5190MHz	65	16.25
5230MHz	85	21.25
5755MHz	79	19.75
5795MHz	81	20.25
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-
5210MHz	61	15.25
5775MHz	78	19.5



For External Antenna 12
For 1TX Mode:

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-
5180MHz	73	18.25
5200MHz	87	21.75
5240MHz	86	21.5
5745MHz	79	19.75
5785MHz	88	22
5825MHz	89	22.25
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-
5180MHz	69	17.25
5200MHz	84	21
5240MHz	84	21
5745MHz	79	19.75
5785MHz	91	22.75
5825MHz	88	22
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-
5190MHz	61	15.25
5230MHz	78	19.5
5755MHz	80	20
5795MHz	82	20.5
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-
5210MHz	65	16.25
5775MHz	72	18
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-
5180MHz	69	17.25
5200MHz	84	21
5240MHz	84	21
5745MHz	79	19.75
5785MHz	91	22.75
5825MHz	88	22
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-
5190MHz	61	15.25
5230MHz	78	19.5
5755MHz	80	20
5795MHz	82	20.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-
5210MHz	65	16.25
5775MHz	72	18

**For 2TX Mode:**

Mode	PowerSetting	PowerSetting (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-
5180MHz	60	15
5200MHz	70	17.5
5240MHz	70	17.5
5745MHz	73	18.25
5785MHz	76	19
5825MHz	78	19.5
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-
5180MHz	63	15.75
5200MHz	79	19.75
5240MHz	82	20.5
5745MHz	72	18
5785MHz	74	18.5
5825MHz	77	19.25
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-
5190MHz	52	13
5230MHz	70	17.5
5755MHz	75	18.75
5795MHz	76	19
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-
5210MHz	59	14.75
5775MHz	67	16.75
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-
5180MHz	63	15.75
5200MHz	79	19.75
5240MHz	82	20.5
5745MHz	72	18
5785MHz	74	18.5
5825MHz	77	19.25
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-
5190MHz	52	13
5230MHz	70	17.5
5755MHz	75	18.75
5795MHz	76	19
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-
5210MHz	59	14.75
5775MHz	67	16.75
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-
5180MHz	73	18.25



Mode	PowerSetting	PowerSetting (dBm)
5200MHz	75	18.75
5240MHz	74	18.5
5745MHz	76	19
5785MHz	76	19
5825MHz	74	18.5
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-
5190MHz	62	15.5
5230MHz	74	18.5
5755MHz	74	18.5
5795MHz	74	18.5
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-
5210MHz	61	15.25
5775MHz	76	19
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-
5180MHz	73	18.25
5200MHz	75	18.75
5240MHz	74	18.5
5745MHz	76	19
5785MHz	76	19
5825MHz	74	18.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-
5190MHz	62	15.5
5230MHz	74	18.5
5755MHz	74	18.5
5795MHz	74	18.5
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-
5210MHz	61	15.25
5775MHz	76	19



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	EUT 1 (Radio 1 / WLAN 2.4GHz) + Adapter
2	EUT 1 (Radio 2 / WLAN 5GHz) + Adapter
3	EUT 1 (Radio 3 / WLAN 2.4GHz) + Adapter
4	EUT 1 (Radio 3 / WLAN 5GHz) + Adapter
5	EUT 1 (Radio 4 / BT LE) + Adapter
6	EUT 1 (Radio 4 / Thread) + Adapter
Mode 6 has been evaluated to be the worst case among Mode 1~6, thus measurement for Mode 7 will follow this same test mode.	
7	EUT 1 (Radio 4 / Thread) + PoE
8	EUT 2 (Radio 1 / WLAN 2.4GHz) + Ant.7 + Adapter
9	EUT 2 (Radio 1 / WLAN 2.4GHz) + Ant.12 + Adapter
10	EUT 2 (Radio 1 / WLAN 2.4GHz) + Ant.13 + Adapter
11	EUT 2 (Radio 2 / WLAN 5GHz) + Ant.7 + Adapter
12	EUT 2 (Radio 2 / WLAN 5GHz) + Ant.12 + Adapter
13	EUT 2 (Radio 3 / WLAN 2.4GHz) + Ant.7 + Adapter
14	EUT 2 (Radio 3 / WLAN 2.4GHz) + Ant.12 + Adapter
15	EUT 2 (Radio 3 / WLAN 2.4GHz) + Ant.13 + Adapter
16	EUT 2 (Radio 3 / WLAN 5GHz) + Ant.7 + Adapter
17	EUT 2 (Radio 3 / WLAN 5GHz) + Ant.12 + Adapter
18	EUT 2 (Radio 4 / BT LE) + Ant.14 + Adapter
19	EUT 2 (Radio 4 / BT LE) + Ant.12 + Adapter
20	EUT 2 (Radio 4 / Thread) + Ant.14 + Adapter
21	EUT 2 (Radio 4 / Thread) + Ant.12 + Adapter
Mode 20 has been evaluated to be the worst case among Mode 8~21, thus measurement for Mode 20 will follow this same test mode.	
22	EUT (Radio 4 / Thread) + Ant.14 + PoE
For operating mode 22 is the worst case and it was record in this test report.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
Test Condition	Conducted measurement at transmit chains
Operating Mode	Note 1



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
<p>The EUT was performed at X axis, Y axis and Z axis position for Unwanted Emissions above 1GHz test. And the worst case were found as below: And the worst case were found as below:</p> <p>For Internal antenna: For Radio 1 WLAN 2.4GHz: was found at Z axis For Radio 2 WLAN 5GHz: was found at Z axis For Radio 3 WLAN 2.4GHz: was found at Z axis For Radio 3 WLAN 5GHz: was found at Z axis For Radio 4 BT LE: was found at Y axis For Radio 4 Thread: was found at X axis</p> <p>For External antennas: For Ant. 7: For Radio 1 WLAN 2.4GHz: was found at X axis For Radio 2 WLAN 5GHz: was found at X axis For Radio 3 WLAN 2.4GHz: was found at Z axis For Radio 3 WLAN 5GHz: was found at Z axis</p> <p>For Ant. 12: For Radio 1 WLAN 2.4GHz: was found at X axis For Radio 2 WLAN 5GHz: was found at X axis For Radio 3 WLAN 2.4GHz: was found at Z axis For Radio 3 WLAN 5GHz: was found at Y axis For Radio 4 BT LE: was found at Z axis For Radio 4 Thread: was found at Z axis</p> <p>For Ant. 13: For Radio 1 WLAN 2.4GHz: was found at Z axis For Radio 3 WLAN 2.4GHz: was found at Z axis</p> <p>For Ant. 14: For Radio 4 BT LE: was found at X axis For Radio 4 Thread: was found at Z axis</p>	
1	EUT 1 in Z axis (Radio 1 / WLAN 2.4GHz) + Adapter
2	EUT 1 in Z axis (Radio 2 / WLAN 5GHz) + Adapter
3	EUT 1 in Z axis (Radio 3 / WLAN 2.4GHz) + Adapter
4	EUT 1 in Z axis (Radio 3 / WLAN 5GHz) + Adapter
5	EUT 1 in Y axis (Radio 4 / BT LE) + Adapter
6	EUT 1 in X axis (Radio 4 / Thread) + Adapter
Mode 3 has been evaluated to be the worst case among Mode 1~6, thus measurement for Mode 7 will follow this same test mode.	
7	EUT 1 in Z axis (Radio 3 / WLAN 2.4GHz) + PoE
8	EUT 2 in X axis (Radio 1 / WLAN 2.4GHz) + Ant.7 + Adapter



9	EUT 2 in X axis (Radio 1 / WLAN 2.4GHz) + Ant.12 + Adapter
10	EUT 2 in Z axis (Radio 1 / WLAN 2.4GHz) + Ant.13 + Adapter
11	EUT 2 in X axis (Radio 2 / WLAN 5GHz) + Ant.7 + Adapter
12	EUT 2 in X axis (Radio 2 / WLAN 5GHz) + Ant.12 + Adapter
13	EUT 2 in Z axis (Radio 3 / WLAN 2.4GHz) + Ant.7 + Adapter
14	EUT 2 in Z axis (Radio 3 / WLAN 2.4GHz) + Ant.12 + Adapter
15	EUT 2 in Z axis (Radio 3 / WLAN 2.4GHz) + Ant.13 + Adapter
16	EUT 2 in Z axis (Radio 3 / WLAN 5GHz) + Ant.7 + Adapter
17	EUT 2 in Y axis (Radio 3 / WLAN 5GHz) + Ant.12 + Adapter
18	EUT 2 in X axis (Radio 4 / BT LE) + Ant.14 + Adapter
19	EUT 2 in Z axis (Radio 4 / BT LE) + Ant.12 + Adapter
20	EUT 2 in Z axis (Radio 4 / Thread) + Ant.14 + Adapter
21	EUT 2 in Z axis (Radio 4 / Thread) + Ant.12 + Adapter

Mode 13 has been evaluated to be the worst case among Mode 8~21, thus measurement for Mode 22 will follow this same test mode.

22	EUT 2 in Z axis (Radio 3 / WLAN 2.4GHz) + Ant.7 + PoE
----	---

For operating mode 22 is the worst case and it was record in this test report.

Operating Mode > 1GHz	CTX (for more details refer note 1)
---------------------------------	-------------------------------------

The EUT was performed at X axis, Y axis and Z axis position for Unwanted Emissions test. And the worst case were found as below:

Items		Internal Antenna			External Antenna 7			External Antenna 12		
		1TX	2TX	4TX	1TX	2TX	4TX	1TX	2TX	4TX
Radio 2	Radiated	Y axis	X axis	Z axis	Y axis	Y axis	X axis	Y axis	Z axis	X axis
	Bandedge									
Radio 3	Radiated	Y axis	Z axis	-	Z axis	Z axis	-	Y axis	Y axis	-
	Bandedge									

The Worst Case Mode for Following Conformance Tests

Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	EUT 2 (Radio 1 + Radio 2)

Refer to Appendix F for Radiated Emission Co-location.



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Radio 1 + Radio 2 + Radio 3 (2.4GHz) + Radio 4 (BT LE)
2	Radio 1 + Radio 2 + Radio 3 (5GHz) + Radio 4 (BT LE)
3	Radio 1 + Radio 2 + Radio 3 (2.4GHz) + Radio 4 (Thread)
4	Radio 1 + Radio 2 + Radio 3 (5GHz) + Radio 4 (Thread)
Refer to Sporton Test Report No.: FA970232 for Co-location RF Exposure Evaluation.	

Note: 1. Test Mode:

Test Item	Radio 2 / Radio 3 (Internal Antenna and External Ant.7and Ant.12)												
	802.11a			802.11ac VHT20/40/80					802.11ax HEW20/40/80				
	1T1S	CDD 2T1S	CDD 4T1S	1T1S	SDM 2T2S	CDD 4T1S	SDM 4T4S	TXBF 4T1S	1T1S	SDM 2T2S	CDD 4T1S	SDM 4T4S	TXBF 4T1S
Maximum Conducted Output Power	V	V	V	V	V	V	V	V	V	V	V	V	V
Emission Bandwidth	V	V	V	V	V	V	V	V	V	V	V	V	V
Power Spectral Density	V	V	V	V	V	V	V	V	V	V	V	V	V
Unwanted Emissions	V	V	V	Cover by 11ax	Cover by 11ax	Cover by 11ax	Cover by 11ax	Cover by 11ax	V	V	V	V	V

- HEW20/HEWT40 covers HT20/HT40. The power setting 11n HT20 and HT40 are the same or lower than 802.11ax HEW20 and HEW40.
- There are two modes of EUT for 802.11n/ax, VHT20, VHT40 in 2.4GHz and 802.11n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.
- The Adapter and PoE is for measurement only, would not be marketed.

Adapter and PoE information as below:

Power	Brand Holder	Model
Adapter	Powertron Electronics Corp.	PA1024-120IB200
Power	Brand	Model
PoE	EnGenius	EPA5006GP



2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet.
3. Executed " Lan Test (2.0.0.2) " to link with the remote workstation to transmit and receive packet by Wireless AP and transmit duty cycle no less than 98%.

2.4 Accessories

Wall-mounted rack



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	Flash disk3.0	Transcend	639205 7755	N/A
C	PoE	EnGenius	EPA85006GP	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
D	PoE	EnGenius	EPA5006GP	N/A

For Radiated (above 1GHz):

<For Non-Beamforming Mode>

Support Equipment				
No.	Equipment	Brand	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
E	Adapter	Powertron Electronics Corp.	PA1024-120IB200	N/A

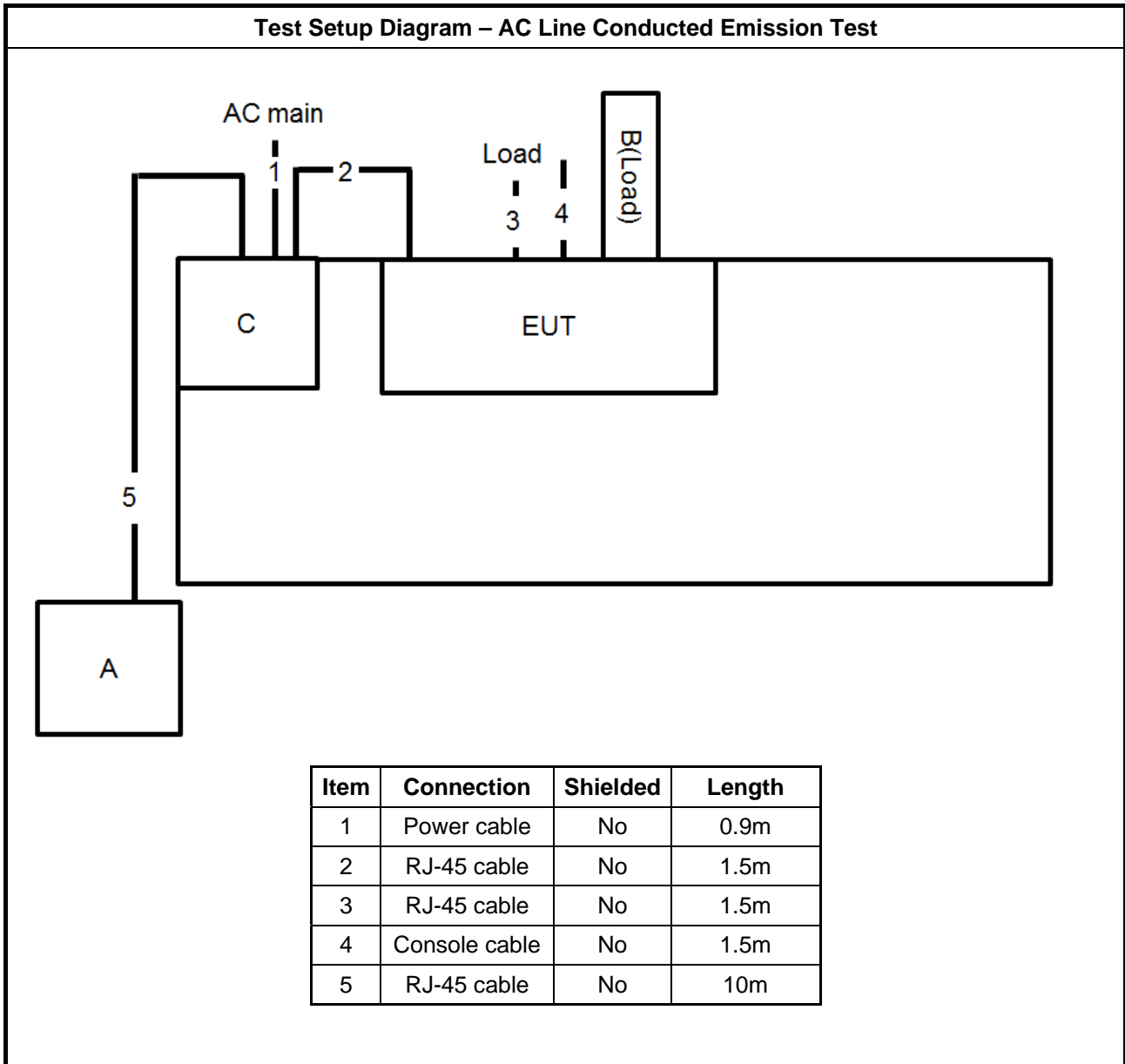
<For Beamforming Mode>

Support Equipment				
No.	Equipment	Brand	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	WLAN AP	Extreme Networks, Inc.	AP460i/e	N/A
C	Notebook	DELL	E4300	N/A
E	Adapter	Powertron Electronics Corp.	PA1024-120IB200	N/A

For RF Conducted:

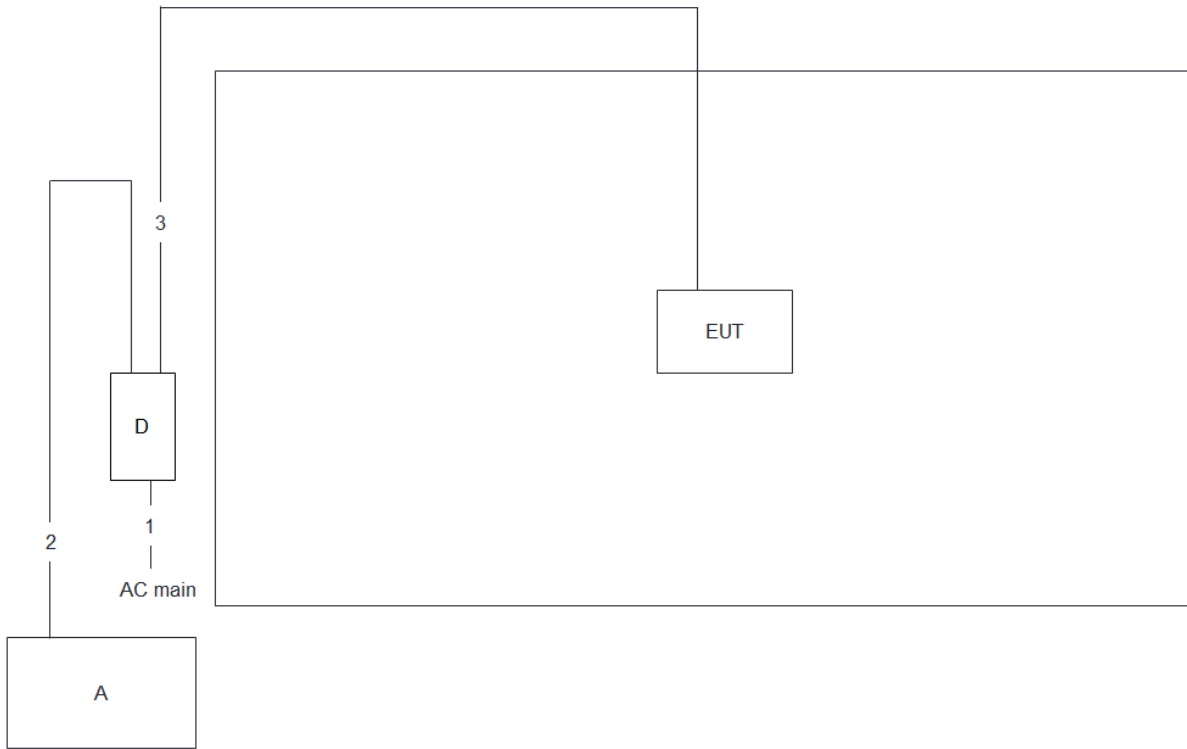
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Adapter	Powertron Electronics Corp.	PA1024-120IB200	N/A

2.6 Test Setup Diagram





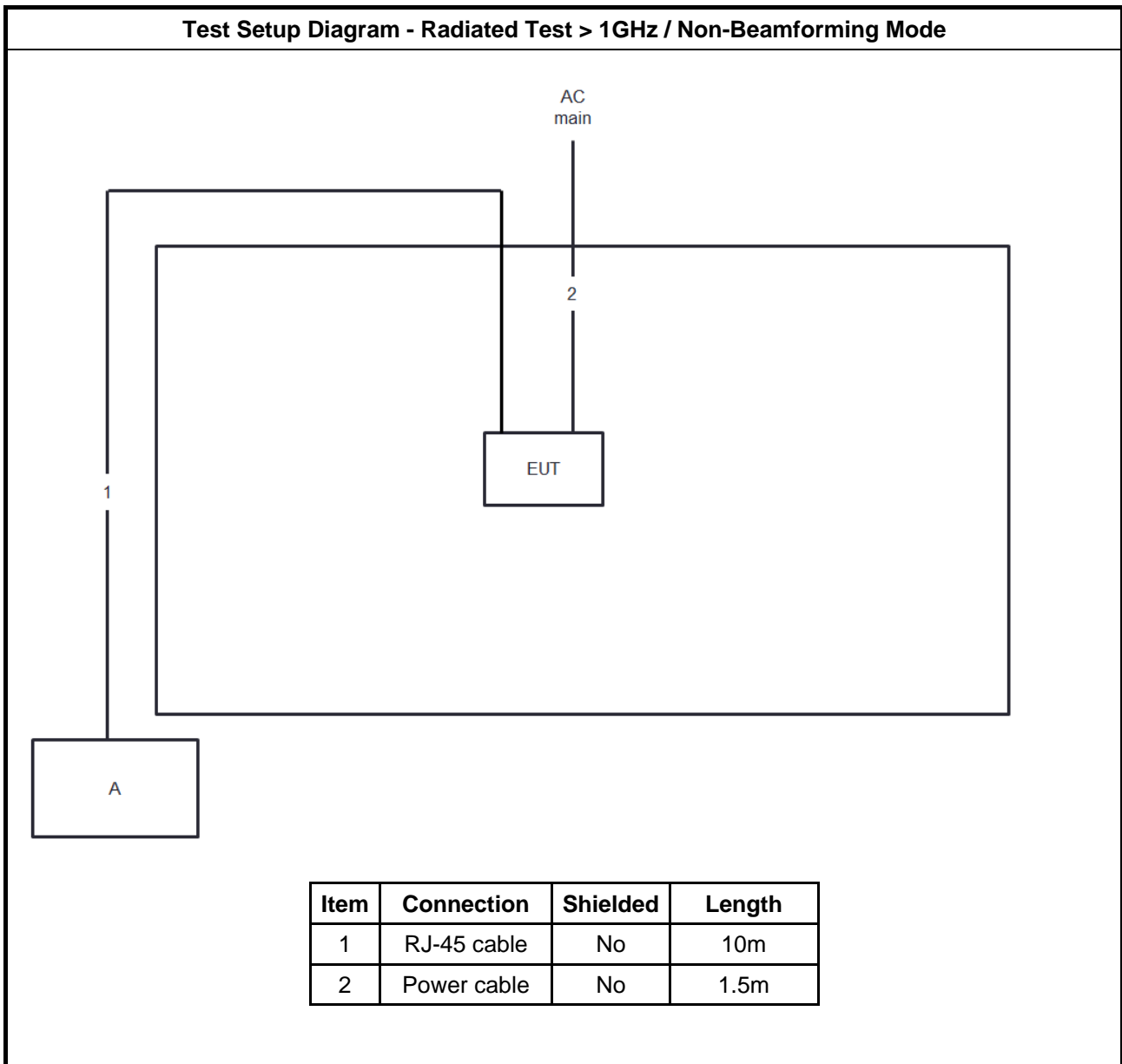
Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	0.5m
2	RJ-45 cable	No	1m
3	RJ-45 cable	No	10m

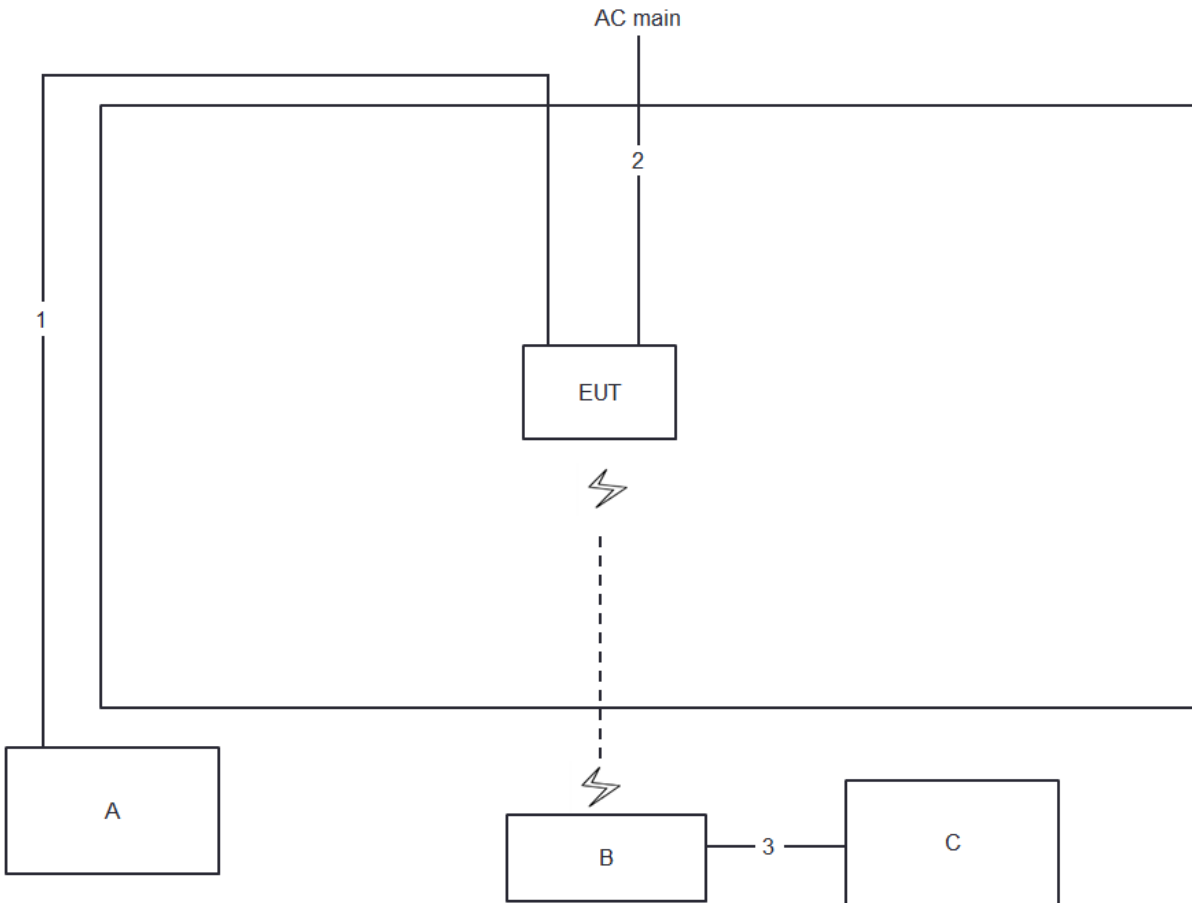


Test Setup Diagram - Radiated Test > 1GHz / Non-Beamforming Mode



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz / Beamforming Mode



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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

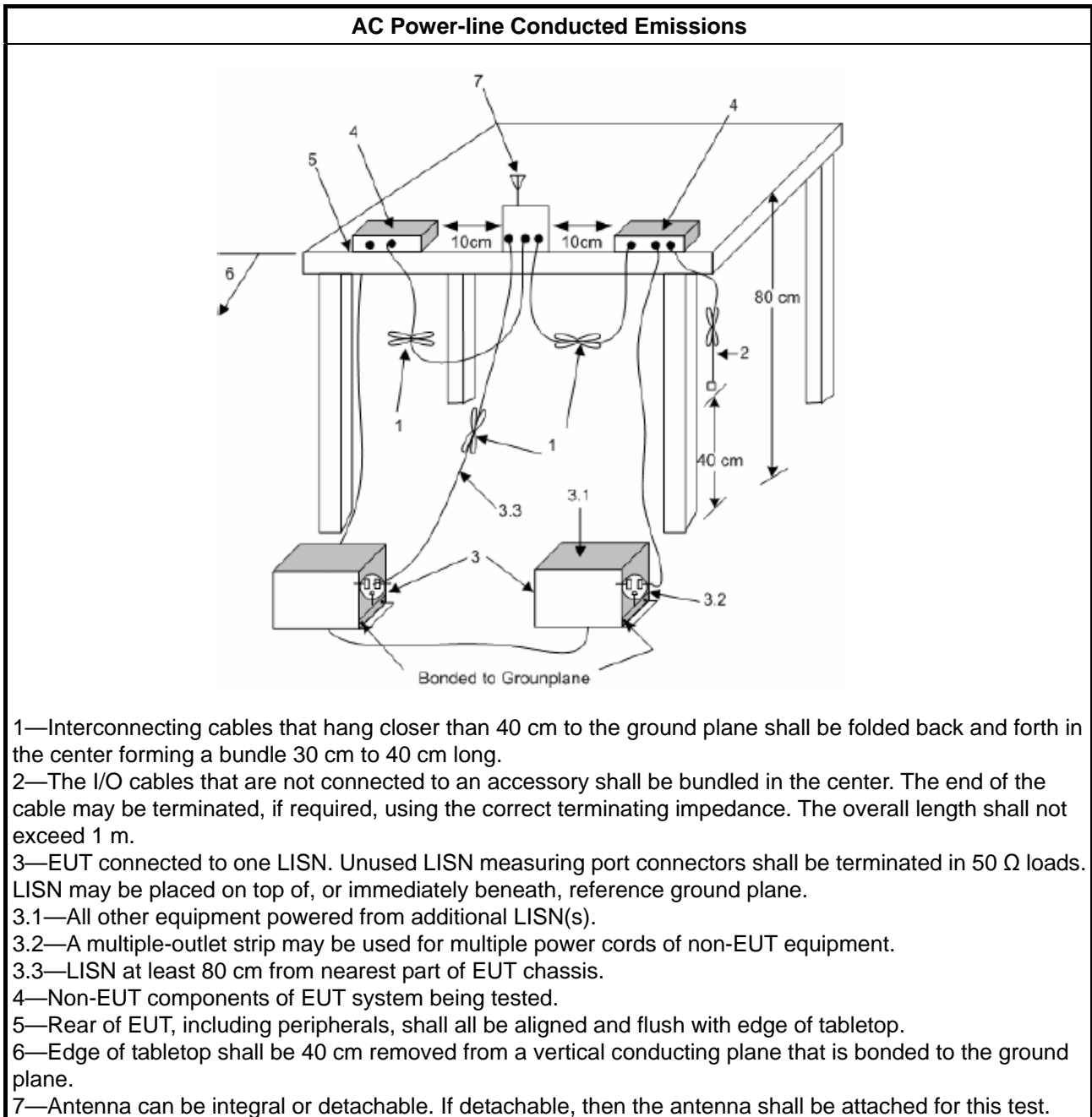
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.
LE-LAN Devices	
<input type="checkbox"/>	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

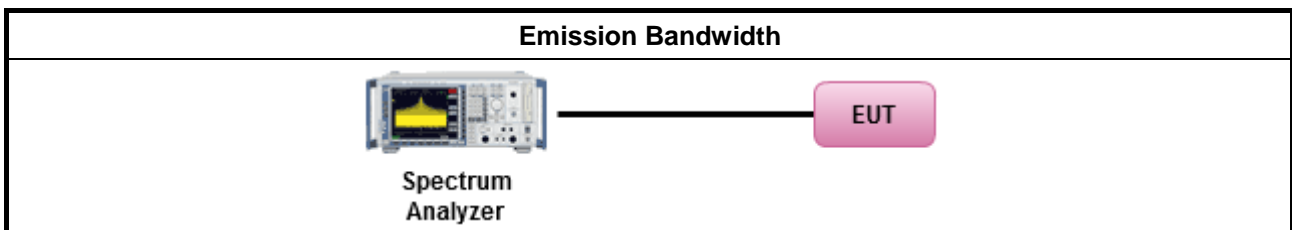
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125mW$ [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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ 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.	

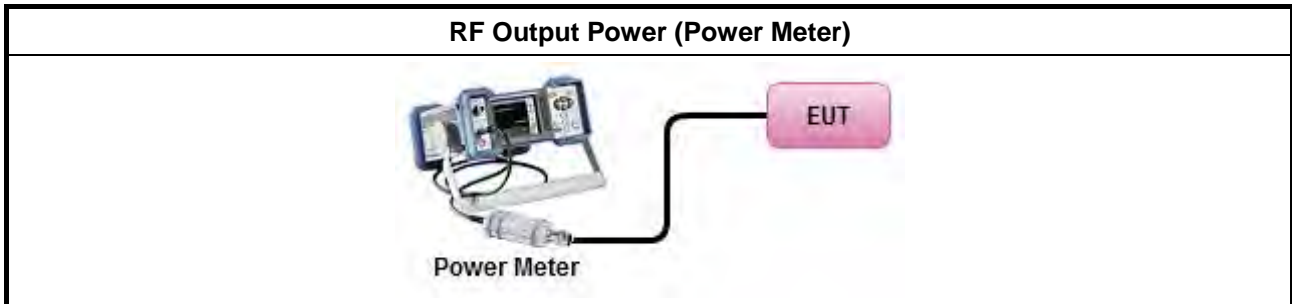
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
Average over on/off periods with duty factor	
<input type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
<input type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
Wideband RF power meter and average over on/off periods with duty factor	
<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).	
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 ($\theta-8$) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 ($\theta-40$) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
<p>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.</p>	



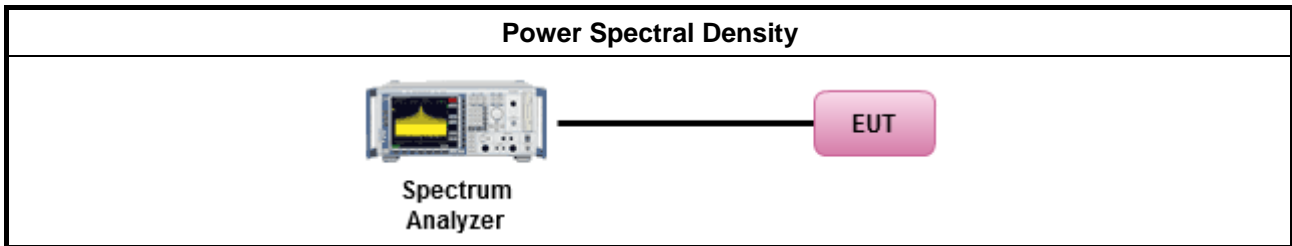
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: 	
<input type="checkbox"/>	Refer as FCC 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% or external video / power trigger]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 	
<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<ul style="list-style-type: none"> ▪ 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 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
<input checked="" type="checkbox"/> 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

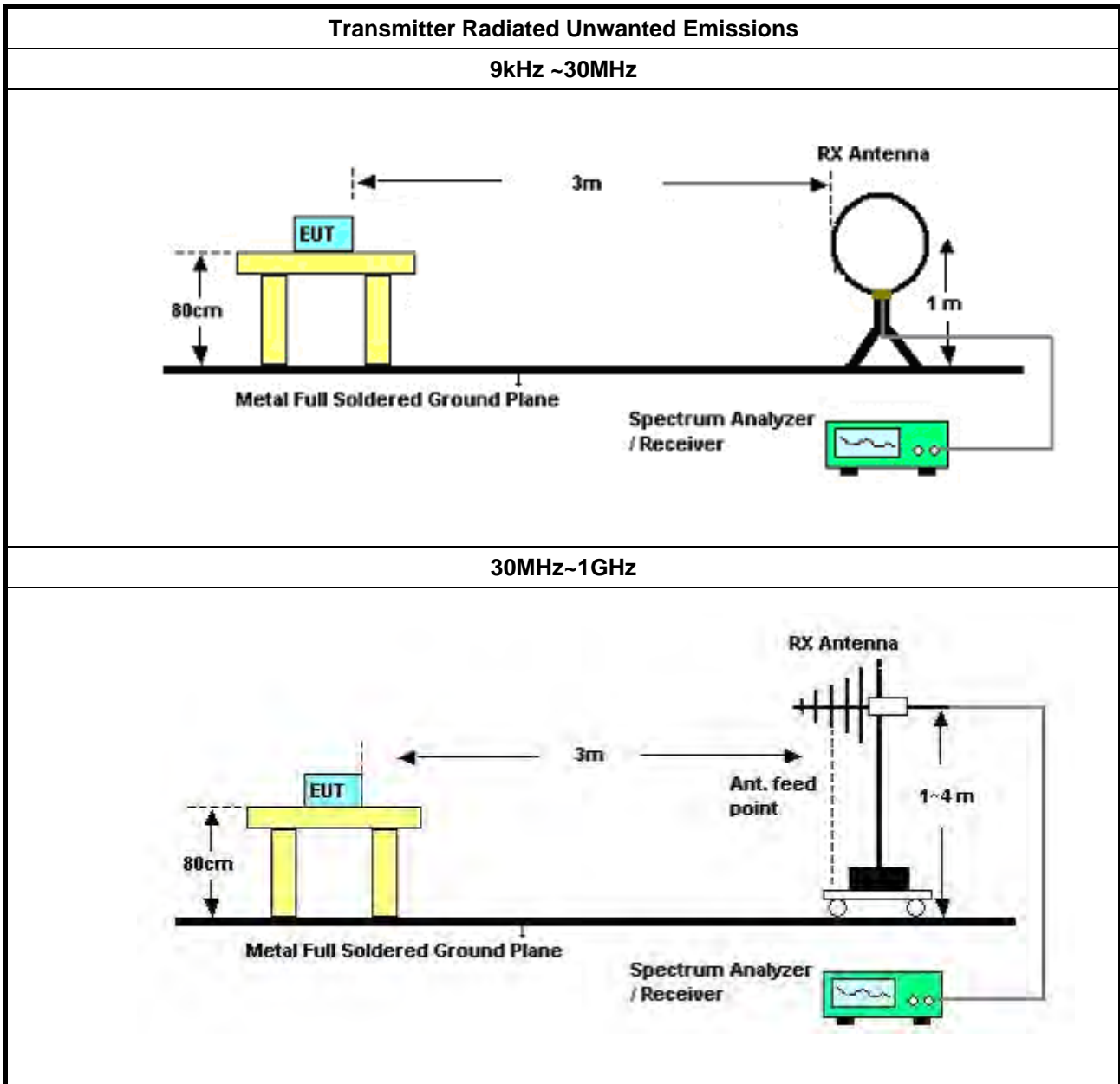
Refer a test equipment and calibration data table in this test report.

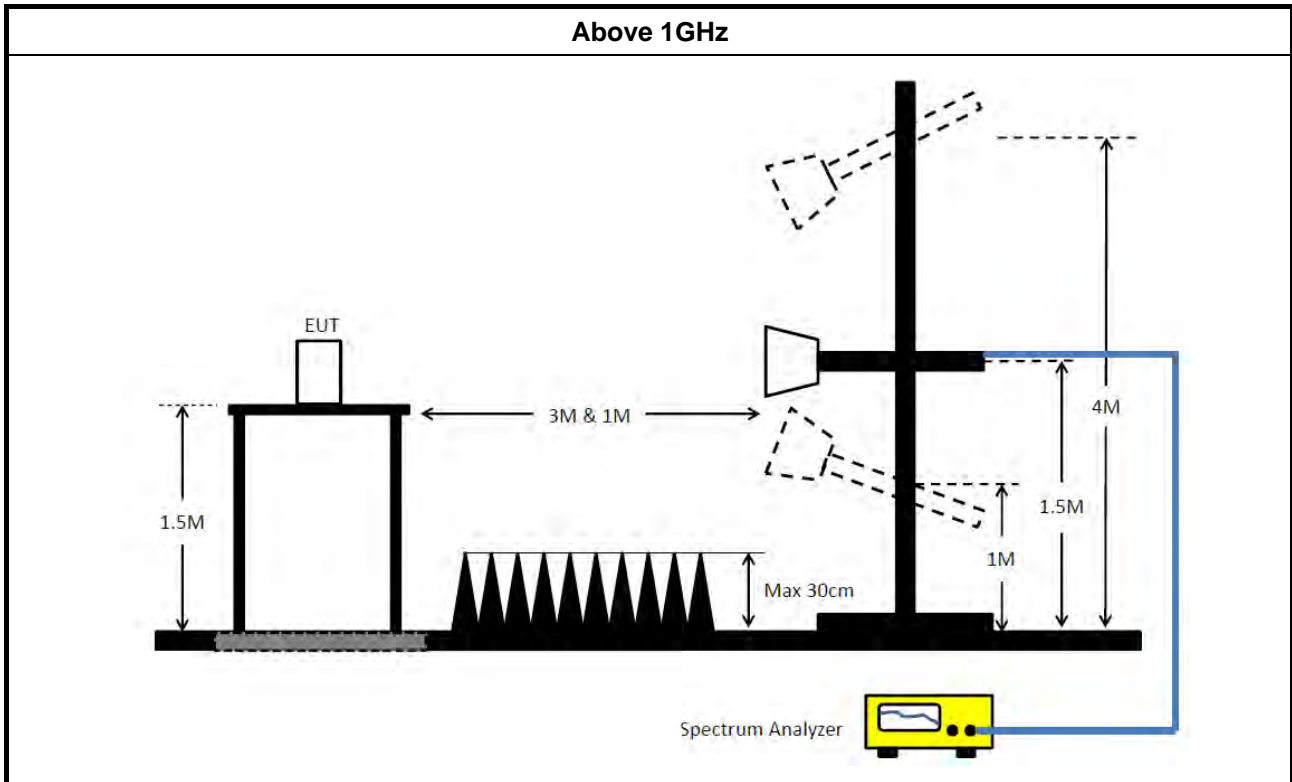


3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> 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). 	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none"> Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
<input type="checkbox"/>	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
<ul style="list-style-type: none"> For radiated measurement. 	
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<ul style="list-style-type: none"> The any unwanted emissions level shall not exceed the fundamental emission level. 	
<ul style="list-style-type: none"> All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESE & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 26, 2018	Oct. 25, 2019	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Mar. 19, 2019	Mar. 18, 2020	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Dec. 26, 2018	Dec. 25, 2019	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+22	1GHz - 18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+22	1GHz - 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

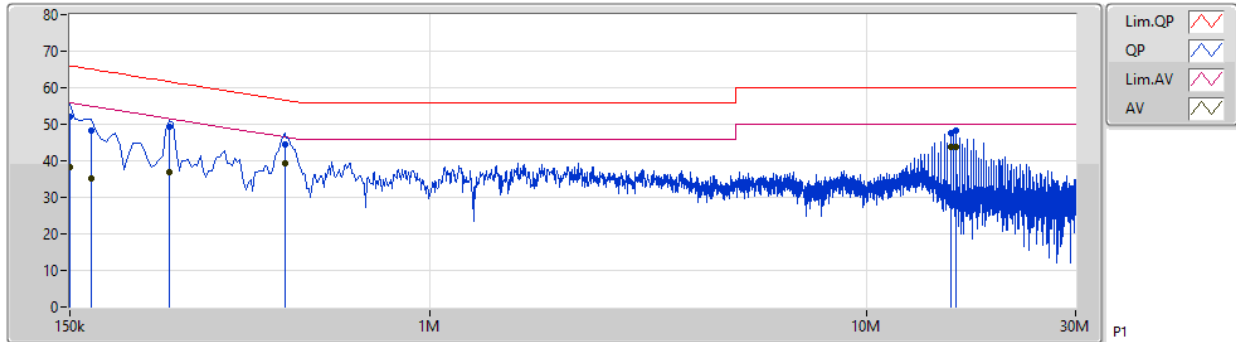


AC Power Port Conducted Emission Result

Appendix A

Test Mode	Mode 22	Frequency Range	0.15 MHz to 30 MHz
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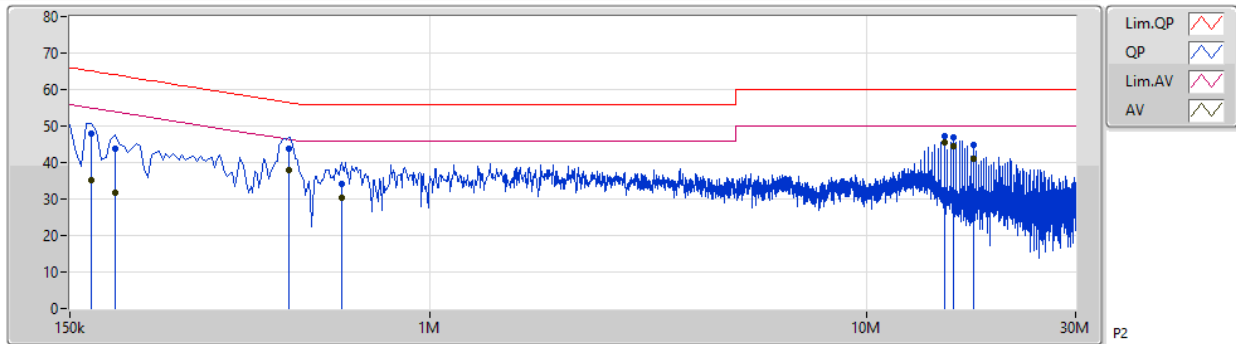
Line



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)
QP	150k	52.01	66.00	-13.99	9.90	Line	-	42.11	0.05	0.06	9.79
AV	150k	38.30	56.00	-17.70	9.90	Line	-	28.40	0.05	0.06	9.79
QP	168k	48.42	65.06	-16.64	9.90	Line	-	38.52	0.05	0.06	9.79
AV	168k	35.32	55.06	-19.74	9.90	Line	-	25.42	0.05	0.06	9.79
QP	253.5k	49.45	61.64	-12.19	9.92	Line	-	39.53	0.06	0.06	9.80
AV	253.5k	36.91	51.64	-14.73	9.92	Line	-	26.99	0.06	0.06	9.80
QP	465k	44.37	56.61	-12.24	9.93	Line	-	34.44	0.06	0.06	9.81
AV	465k	39.36	46.61	-7.25	9.93	Line	-	29.43	0.06	0.06	9.81
QP	15.527M	47.51	60.00	-12.49	10.41	Line	-	37.10	0.26	0.22	9.93
AV	15.527M	43.84	50.00	-6.16	10.41	Line	-	33.43	0.26	0.22	9.93
QP	16.022M	48.34	60.00	-11.66	10.43	Line	-	37.91	0.26	0.23	9.94
AV	16.022M	43.86	50.00	-6.14	10.43	Line	"Worst"	33.43	0.26	0.23	9.94



Neutral



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)
QP	168k	47.94	65.06	-17.12	9.89	Neutral	-	38.05	0.04	0.06	9.79
AV	168k	35.03	55.06	-20.03	9.89	Neutral	-	25.14	0.04	0.06	9.79
QP	190.5k	43.75	64.01	-20.26	9.89	Neutral	-	33.86	0.04	0.06	9.79
AV	190.5k	31.69	54.01	-22.32	9.89	Neutral	-	21.80	0.04	0.06	9.79
QP	474k	43.67	56.44	-12.77	9.92	Neutral	-	33.75	0.04	0.07	9.81
AV	474k	37.80	46.44	-8.64	9.92	Neutral	-	27.88	0.04	0.07	9.81
QP	627k	34.27	56.00	-21.73	9.93	Neutral	-	24.34	0.05	0.07	9.81
AV	627k	30.40	46.00	-15.60	9.93	Neutral	-	20.47	0.05	0.07	9.81
QP	15.032M	47.34	60.00	-12.66	10.37	Neutral	-	36.97	0.23	0.22	9.92
AV	15.032M	45.40	50.00	-4.60	10.37	Neutral	"Worst"	35.03	0.23	0.22	9.92
QP	15.77M	47.04	60.00	-12.96	10.39	Neutral	-	36.65	0.23	0.23	9.93
AV	15.77M	44.49	50.00	-5.51	10.39	Neutral	-	34.10	0.23	0.23	9.93
QP	17.493M	44.91	60.00	-15.09	10.44	Neutral	-	34.47	0.24	0.24	9.96
AV	17.493M	41.13	50.00	-8.87	10.44	Neutral	-	30.69	0.24	0.24	9.96



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	43.59M	22.879M	22M9D1D	27.09M	16.672M
802.11ac VHT20_Nss1,(MCS0)_1TX	45.81M	20.24M	20M2D1D	29.04M	17.811M
802.11ac VHT40_Nss1,(MCS0)_1TX	76.74M	36.702M	36M7D1D	40.38M	36.222M
802.11ac VHT80_Nss1,(MCS0)_1TX	82.08M	75.682M	75M7D1D	82.08M	75.682M
802.11ax HEW20_Nss1,(MCS0)_1TX	45.81M	20.87M	20M9D1D	23.49M	18.981M
802.11ax HEW40_Nss1,(MCS0)_1TX	76.08M	37.781M	37M8D1D	40.08M	37.481M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.08M	77.001M	77M0D1D	82.08M	77.001M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.41M	38.081M	38M1D1D	16.32M	35.472M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.55M	42.339M	42M3D1D	17.52M	38.201M
802.11ac VHT40_Nss1,(MCS0)_1TX	36.3M	74.903M	74M9D1D	36M	57.691M
802.11ac VHT80_Nss1,(MCS0)_1TX	76.08M	78.681M	78M7D1D	76.08M	78.681M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.45M	41.919M	41M9D1D	18.06M	38.501M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.56M	74.663M	74M7D1D	37.5M	59.01M
802.11ax HEW80_Nss1,(MCS0)_1TX	75.96M	78.081M	78M1D1D	75.96M	78.081M

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)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	27.09M	16.672M
5200MHz	Pass	Inf	43.59M	22.879M
5240MHz	Pass	Inf	43.59M	19.88M
5745MHz	Pass	500k	16.41M	35.742M
5785MHz	Pass	500k	16.32M	38.081M
5825MHz	Pass	500k	16.32M	35.472M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	29.04M	17.811M
5200MHz	Pass	Inf	45.81M	20.24M
5240MHz	Pass	Inf	43.53M	18.861M
5745MHz	Pass	500k	17.52M	38.201M
5785MHz	Pass	500k	17.55M	42.279M
5825MHz	Pass	500k	17.55M	42.339M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.38M	36.222M
5230MHz	Pass	Inf	76.74M	36.702M
5755MHz	Pass	500k	36.3M	57.691M
5795MHz	Pass	500k	36M	74.903M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.08M	75.682M
5775MHz	Pass	500k	76.08M	78.681M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	23.49M	18.981M
5200MHz	Pass	Inf	43.02M	20.87M
5240MHz	Pass	Inf	45.81M	19.91M
5745MHz	Pass	500k	18.06M	39.94M
5785MHz	Pass	500k	18.45M	41.919M
5825MHz	Pass	500k	18.36M	38.501M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.481M
5230MHz	Pass	Inf	76.08M	37.781M
5755MHz	Pass	500k	37.56M	59.01M
5795MHz	Pass	500k	37.5M	74.663M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.08M	77.001M
5775MHz	Pass	500k	75.96M	78.081M

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

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

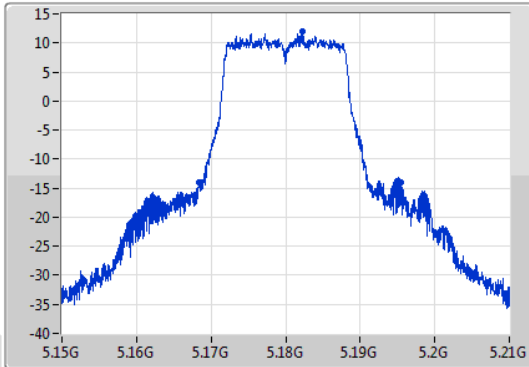
802.11a_Nss1,(6Mbps)_1TX

EBW

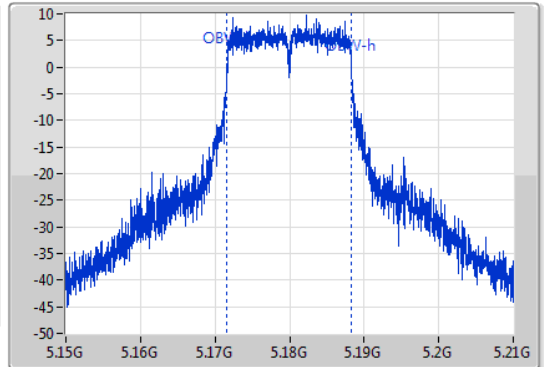
5180MHz

26/09/2019

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak
Port1



CF
5.18GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.09M	5.16836G	5.19545G	16.672M	5.171634G	5.188306G	Inf	1

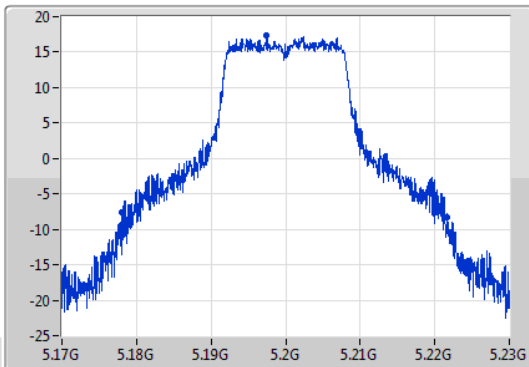
802.11a_Nss1,(6Mbps)_1TX

EBW

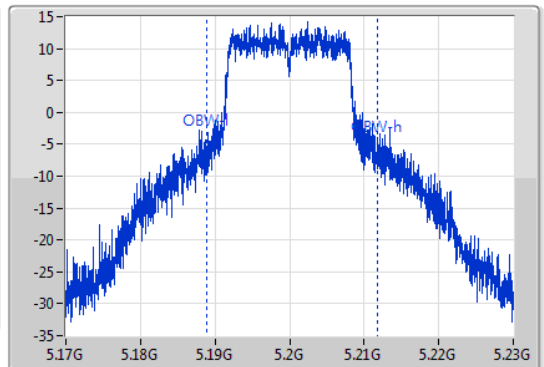
5200MHz

26/09/2019

CF
5.2GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port1



CF
5.2GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.59M	5.17807G	5.22166G	22.879M	5.188936G	5.211814G	Inf	1

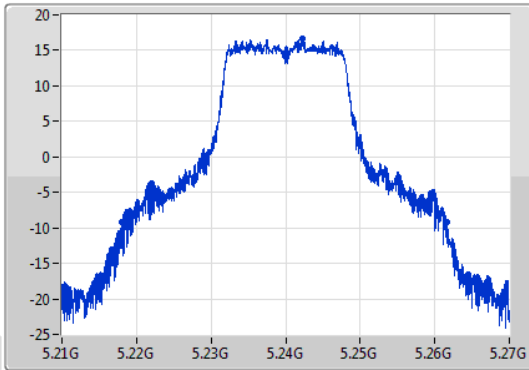
802.11a_Nss1,(6Mbps)_1TX

EBW

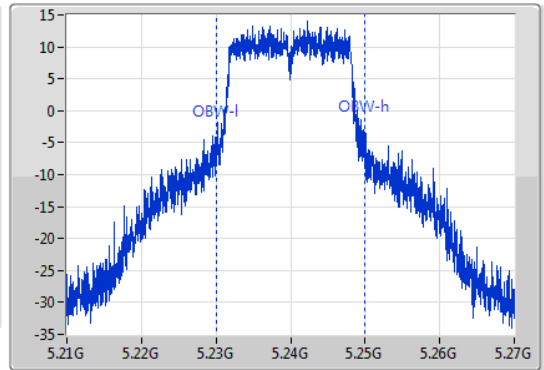
5240MHz

26/09/2019

CF: 5.24GHz
 Span: 60MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak
 Port 1



CF: 5.24GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.59M	5.21801G	5.2616G	19.88M	5.230045G	5.249925G	Inf	1

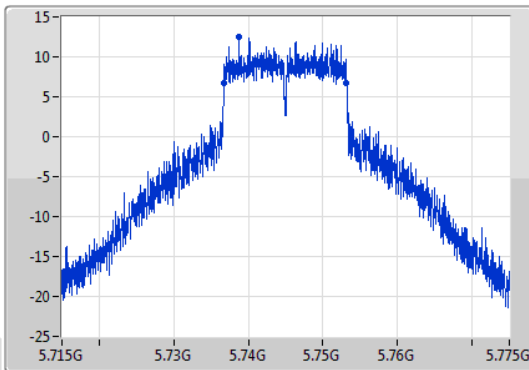
802.11a_Nss1,(6Mbps)_1TX

EBW

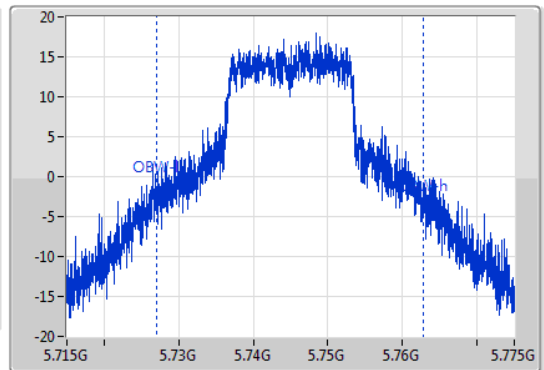
5745MHz

26/09/2019

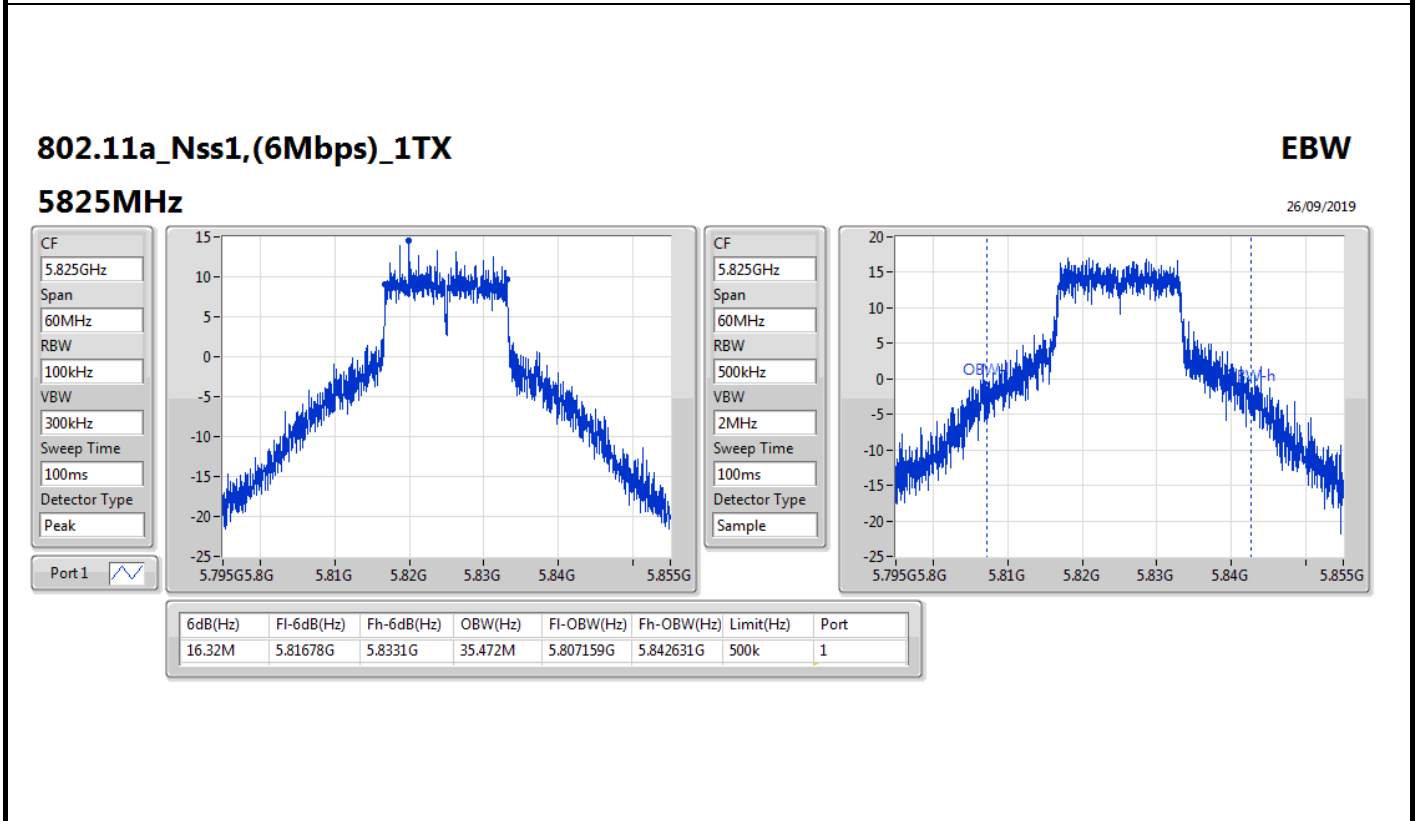
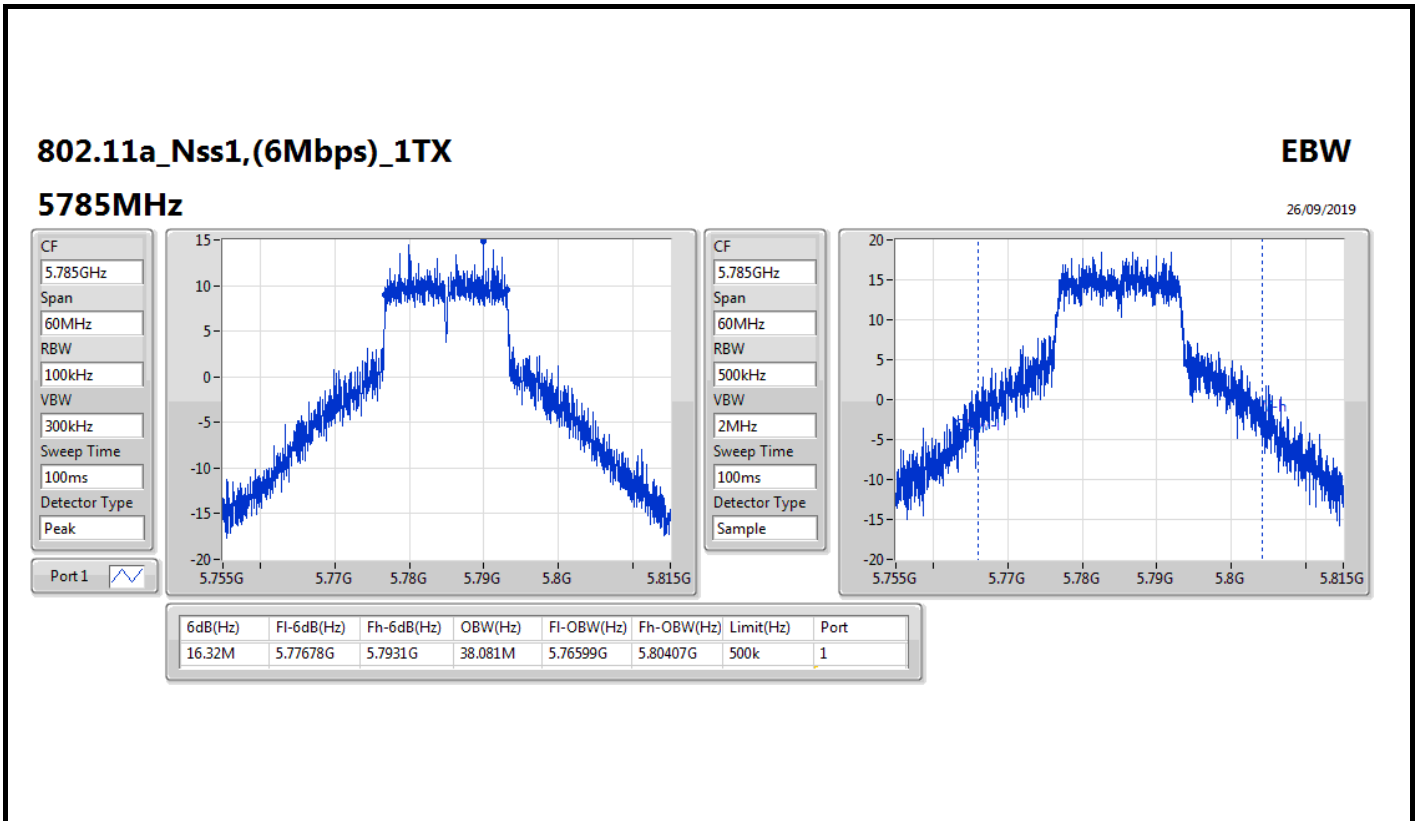
CF: 5.745GHz
 Span: 60MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak
 Port 1



CF: 5.745GHz
 Span: 60MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.41M	5.73675G	5.75316G	35.742M	5.727099G	5.762841G	500k	1

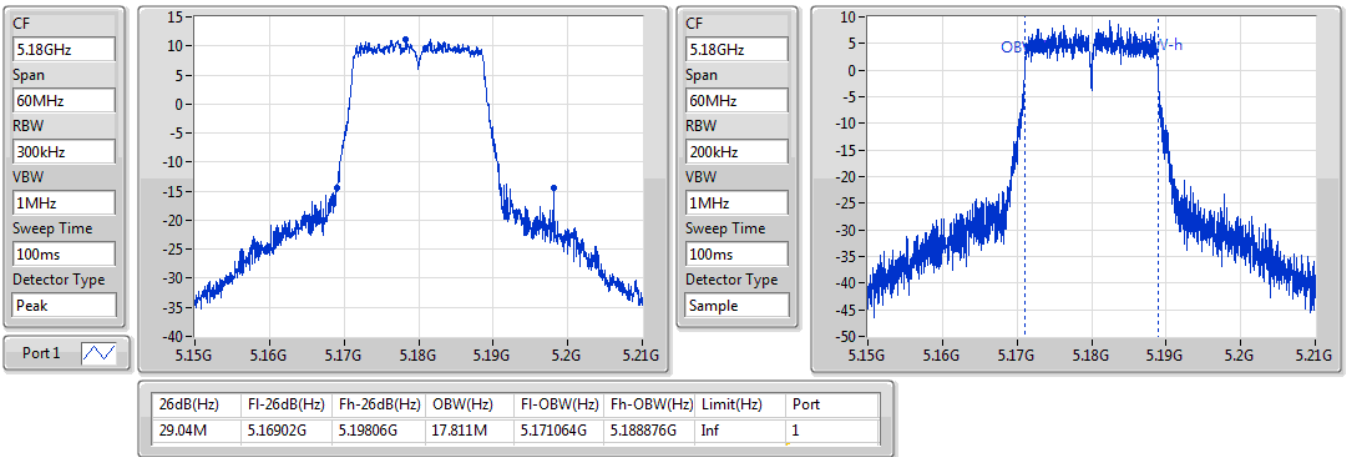


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5180MHz

30/10/2019

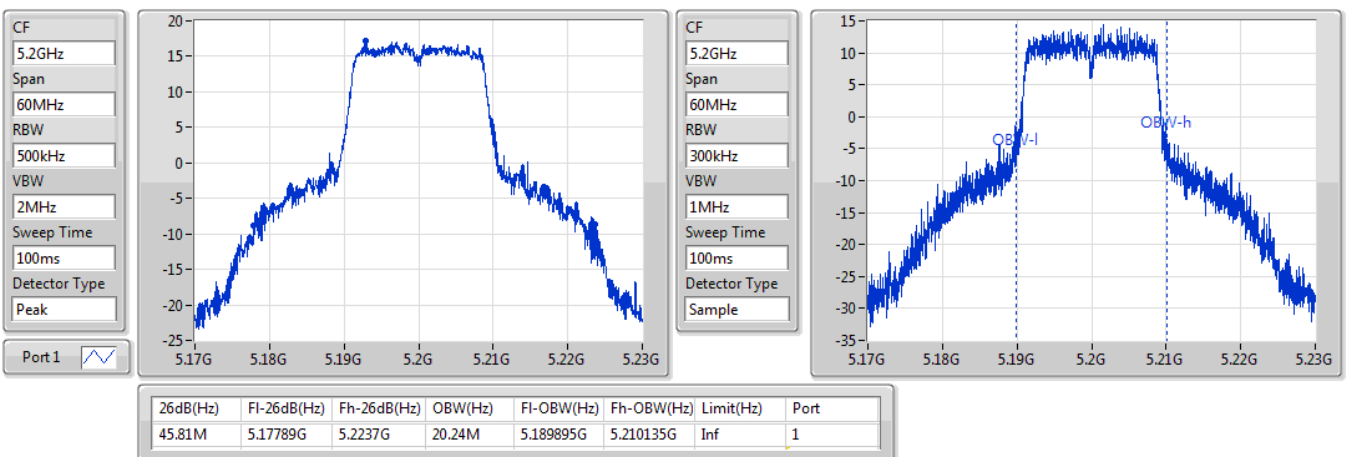


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5200MHz

30/10/2019

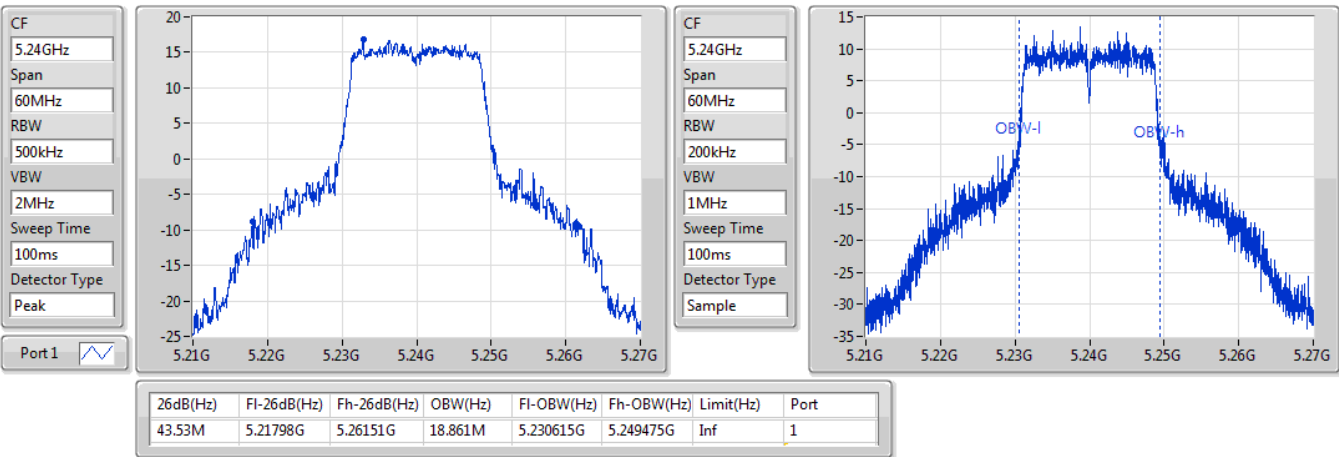


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5240MHz

30/10/2019

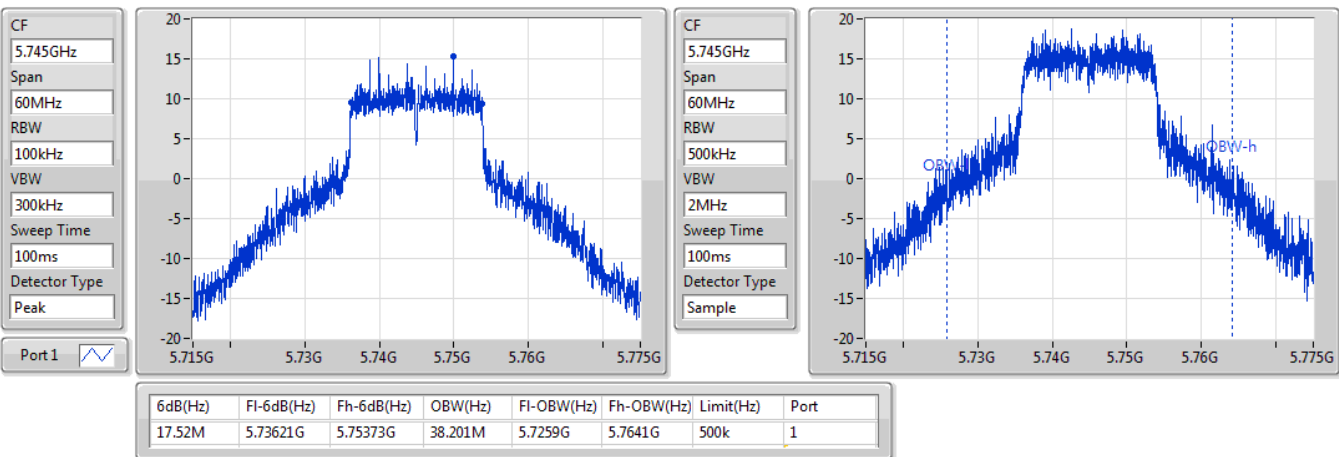


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5745MHz

30/10/2019

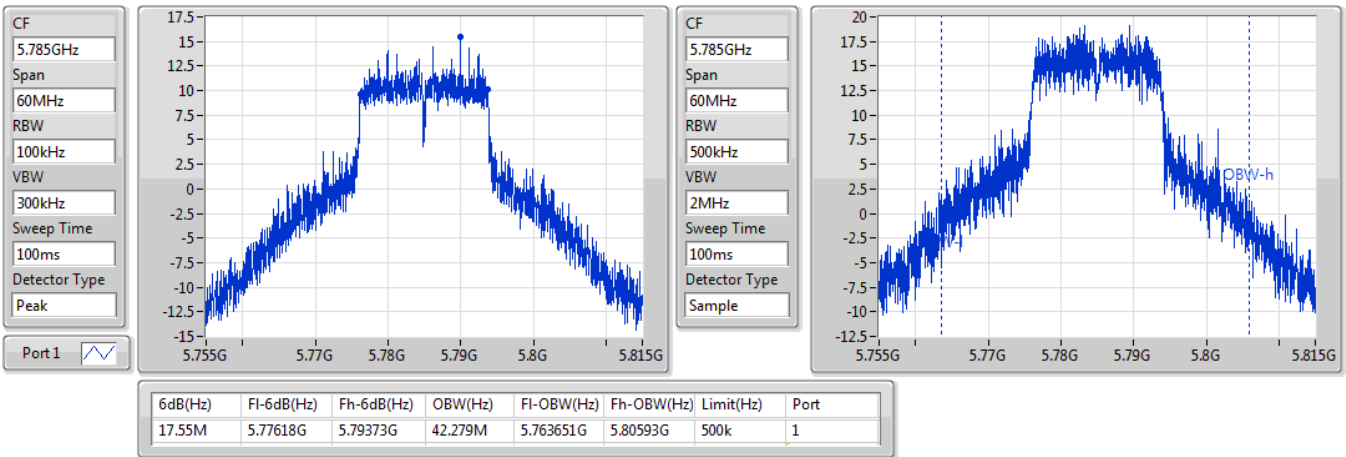


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5785MHz

30/10/2019

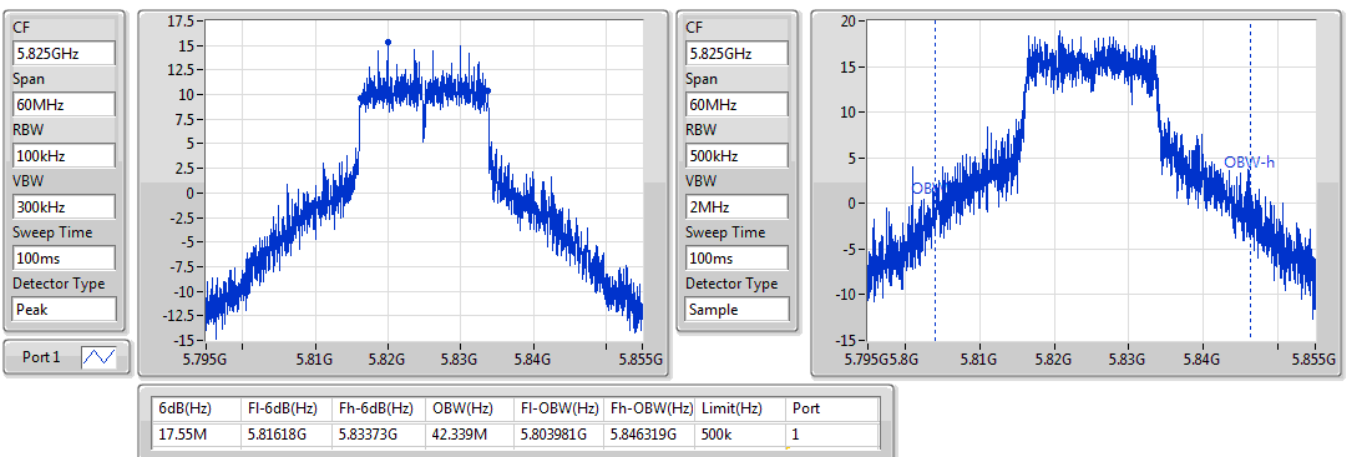


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5825MHz

30/10/2019

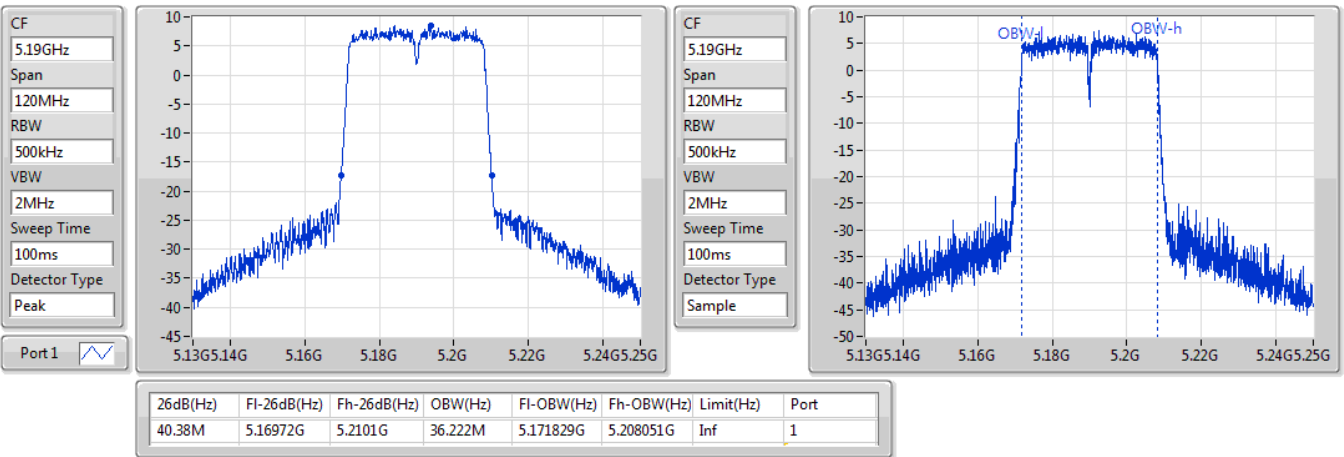


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5190MHz

30/10/2019

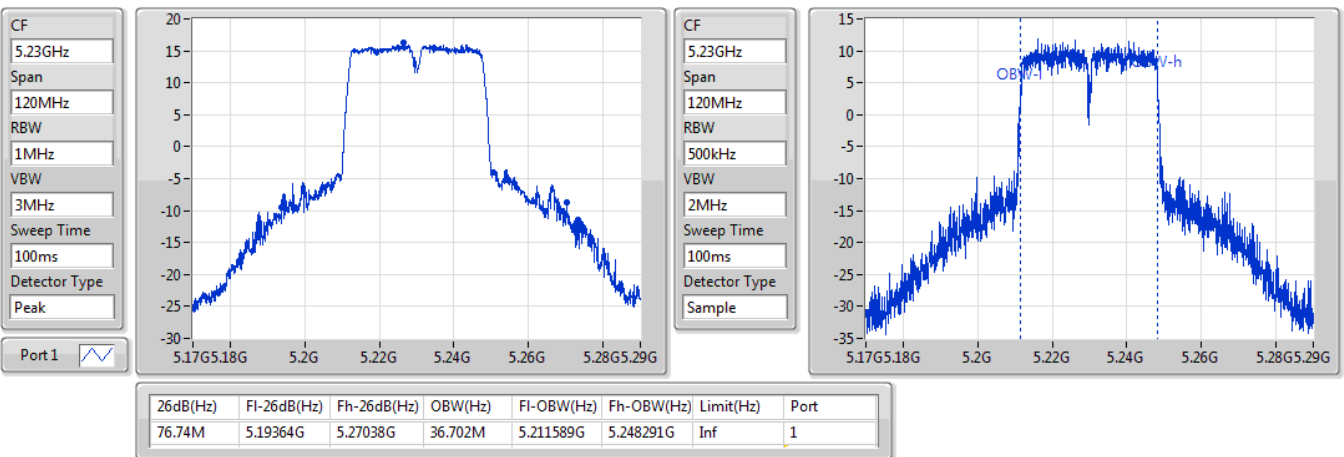


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5230MHz

30/10/2019

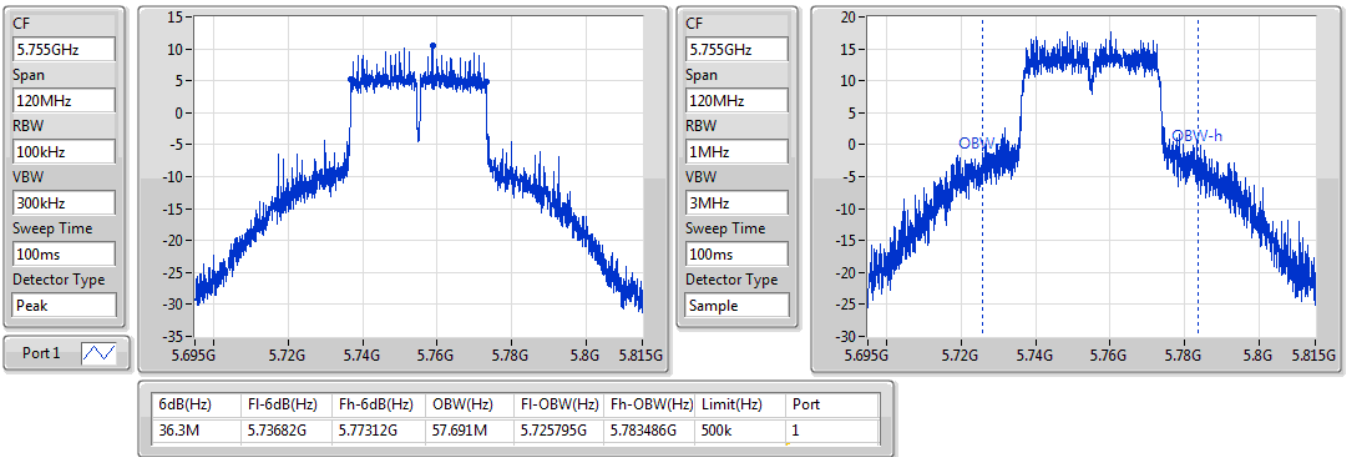


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5755MHz

30/10/2019

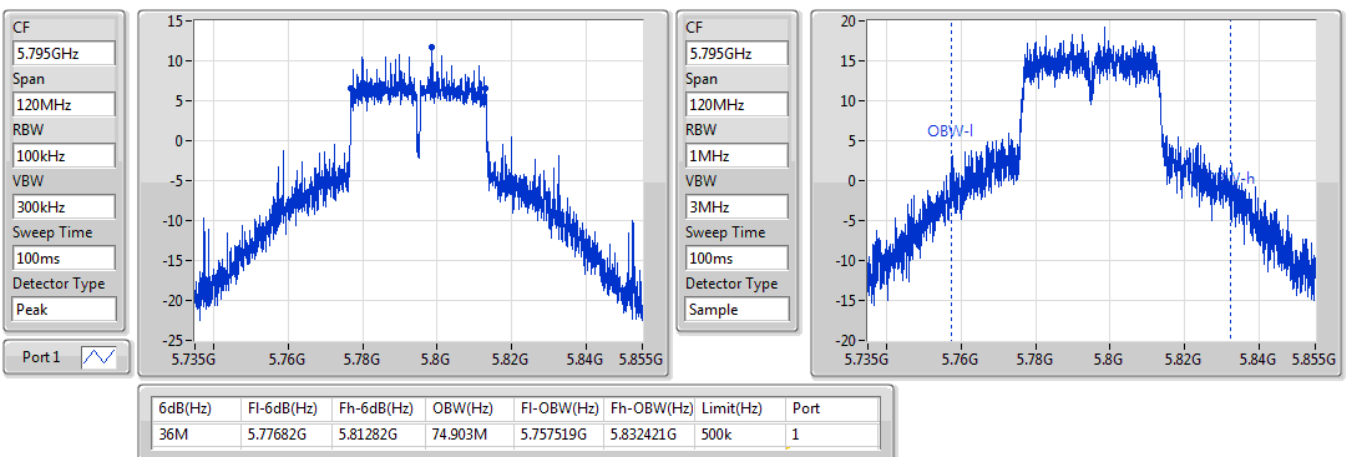


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5795MHz

30/10/2019

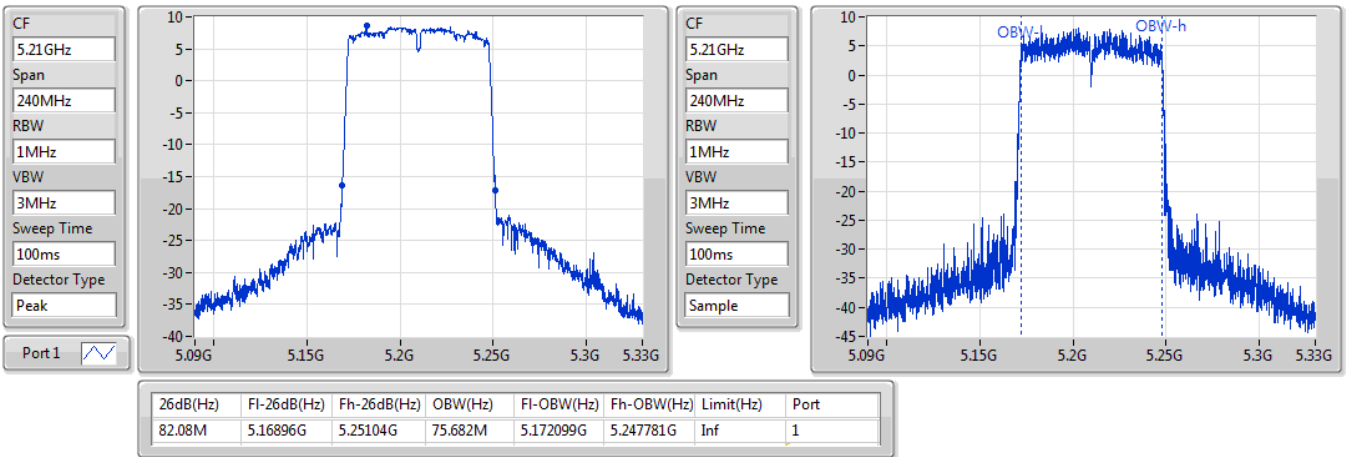


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5210MHz

30/10/2019

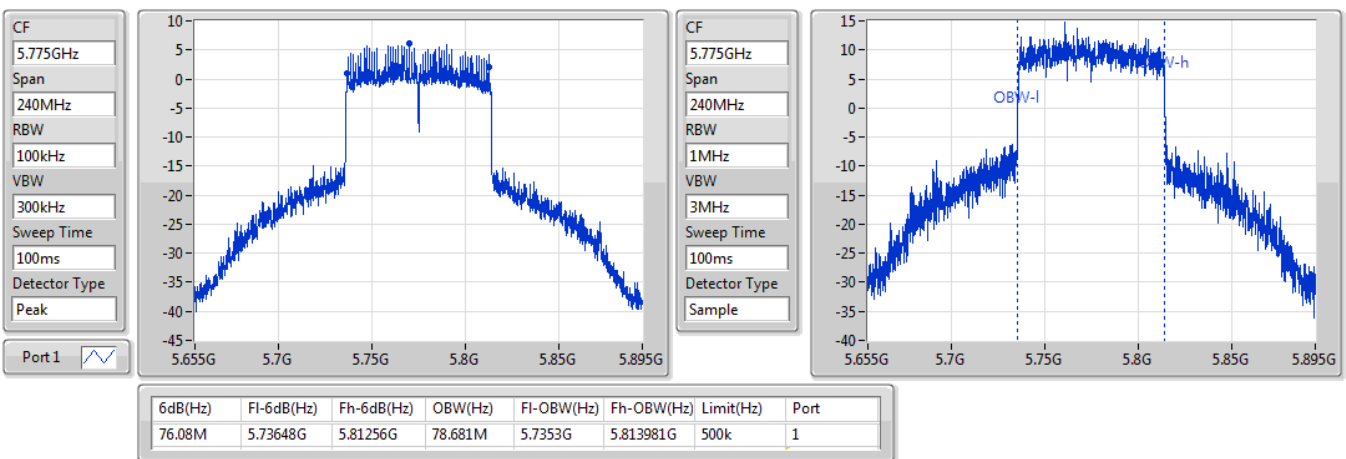


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5775MHz

30/10/2019

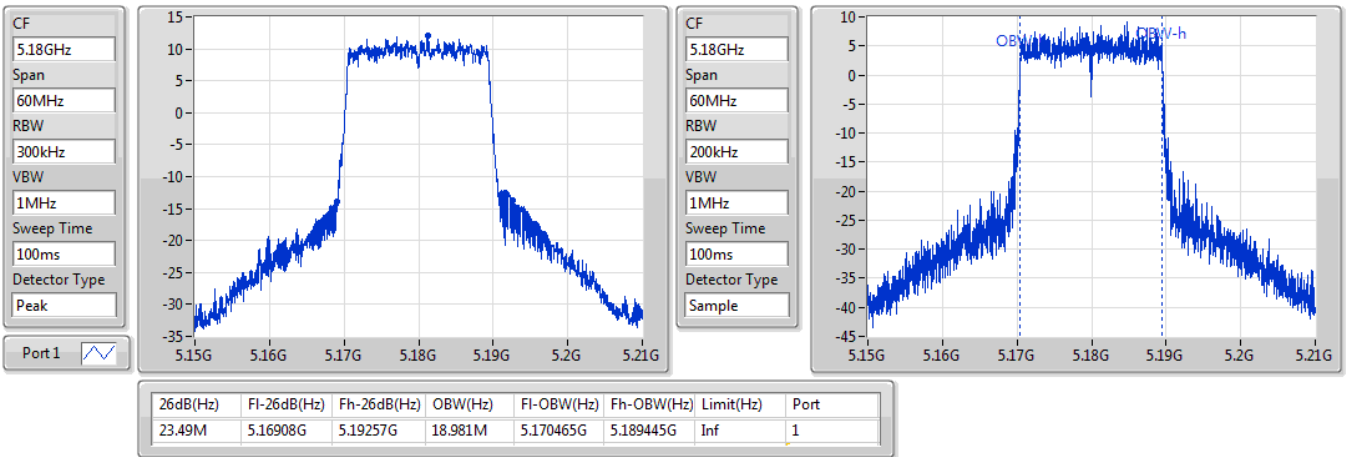


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

26/09/2019

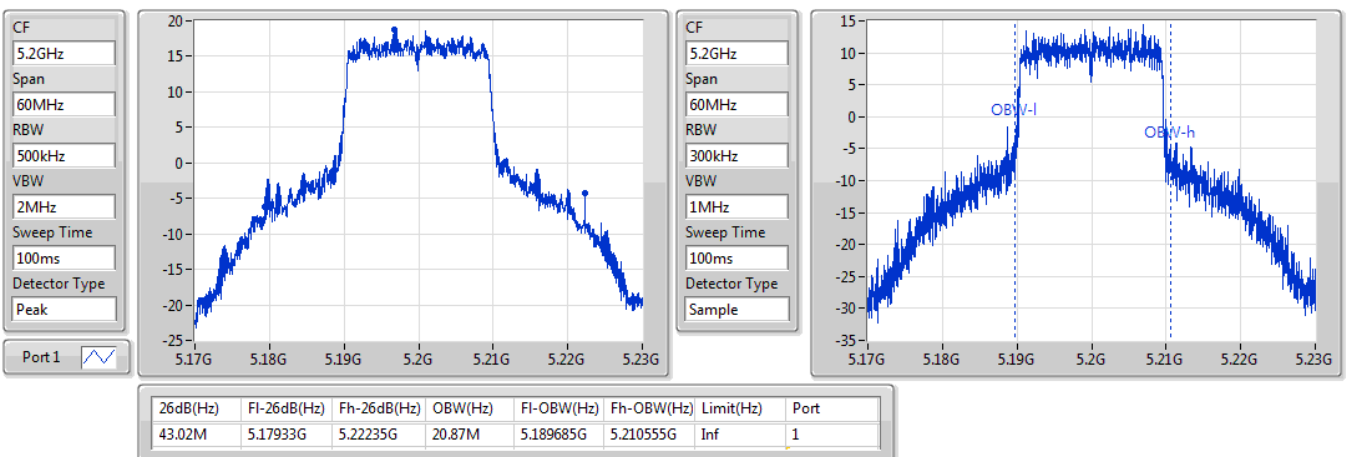


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

26/09/2019

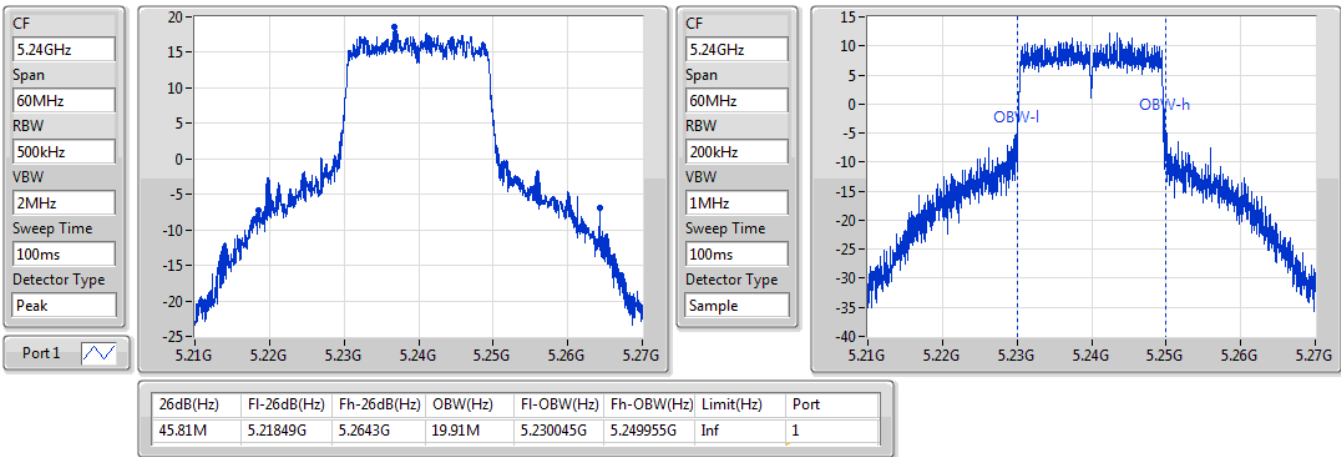


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

26/09/2019

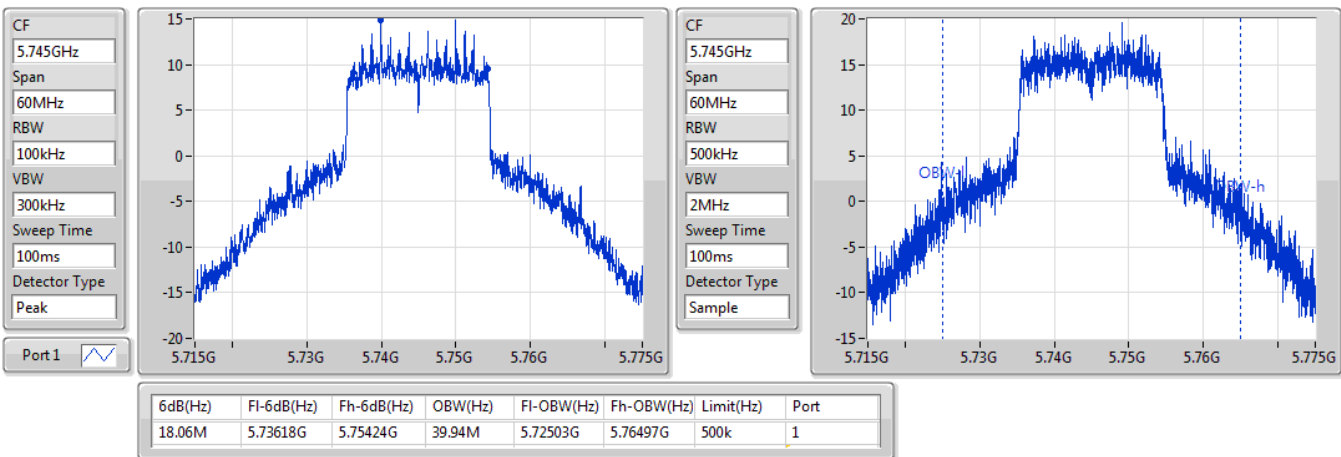


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

30/10/2019

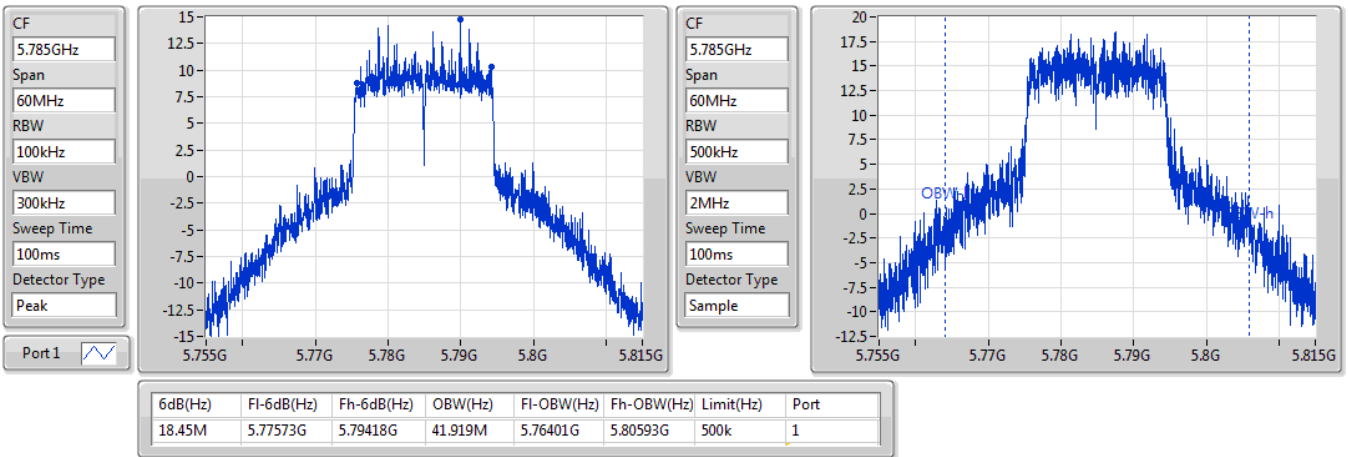


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

26/09/2019

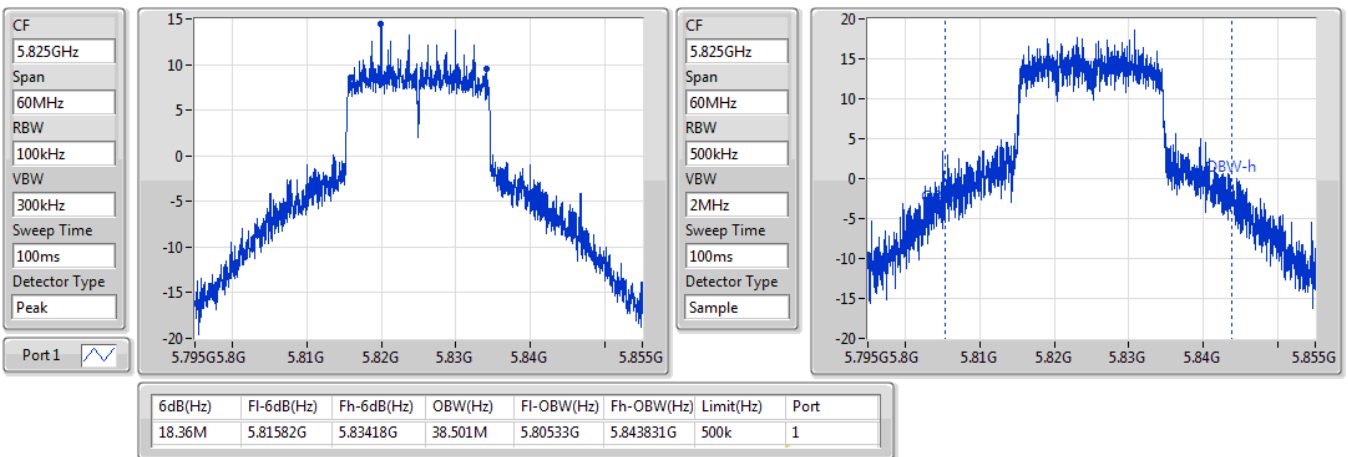


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5825MHz

26/09/2019



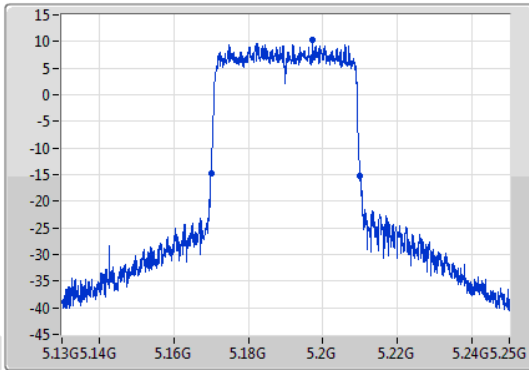
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

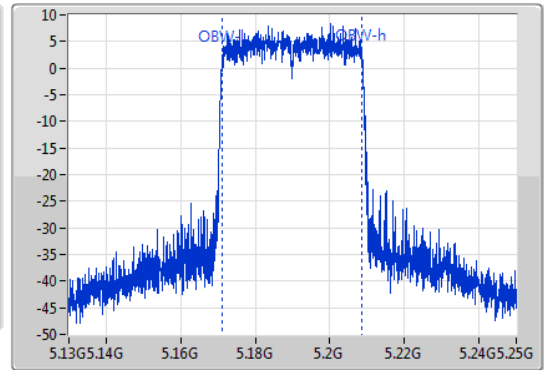
5190MHz

26/09/2019

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.08M	5.16996G	5.21004G	37.481M	5.171169G	5.208651G	Inf	1

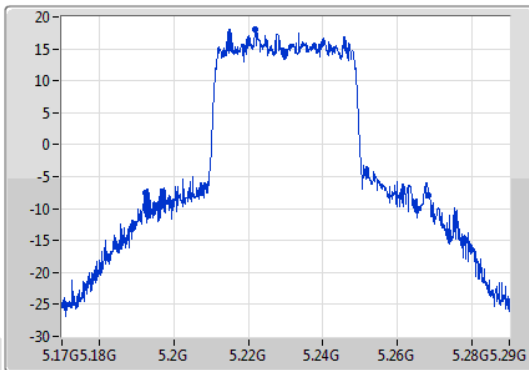
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

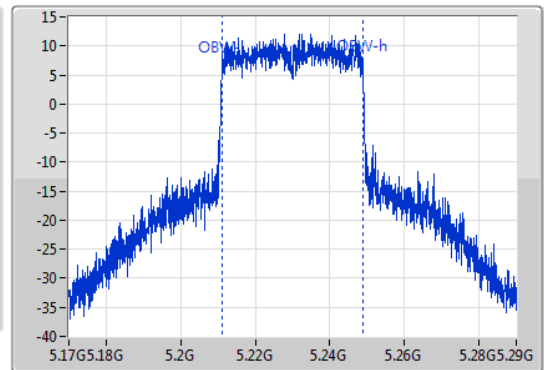
5230MHz

26/09/2019

CF
5.23GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.08M	5.19232G	5.2684G	37.781M	5.211049G	5.248831G	Inf	1

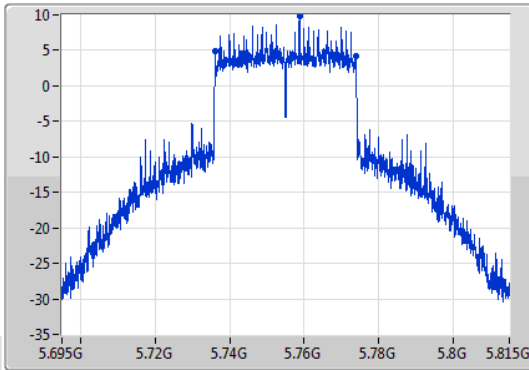
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

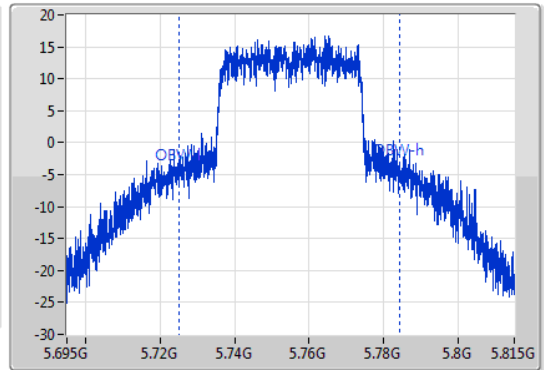
5755MHz

26/09/2019

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.755GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.56M	5.73616G	5.77372G	59.01M	5.725135G	5.784145G	500k	1

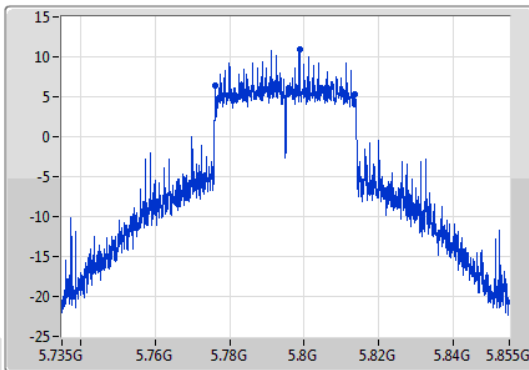
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

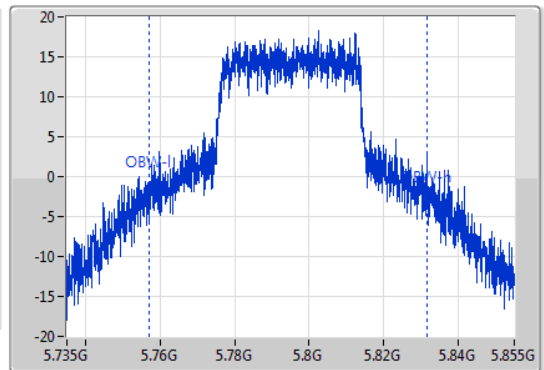
5795MHz

26/09/2019

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.795GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



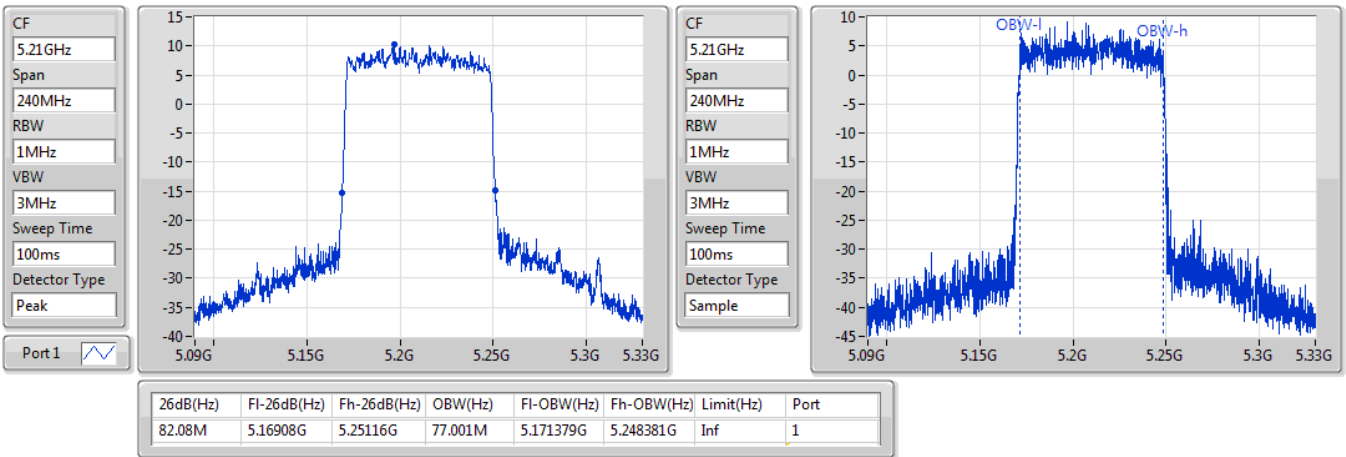
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.5M	5.77616G	5.81366G	74.663M	5.757099G	5.831762G	500k	1

802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

26/09/2019

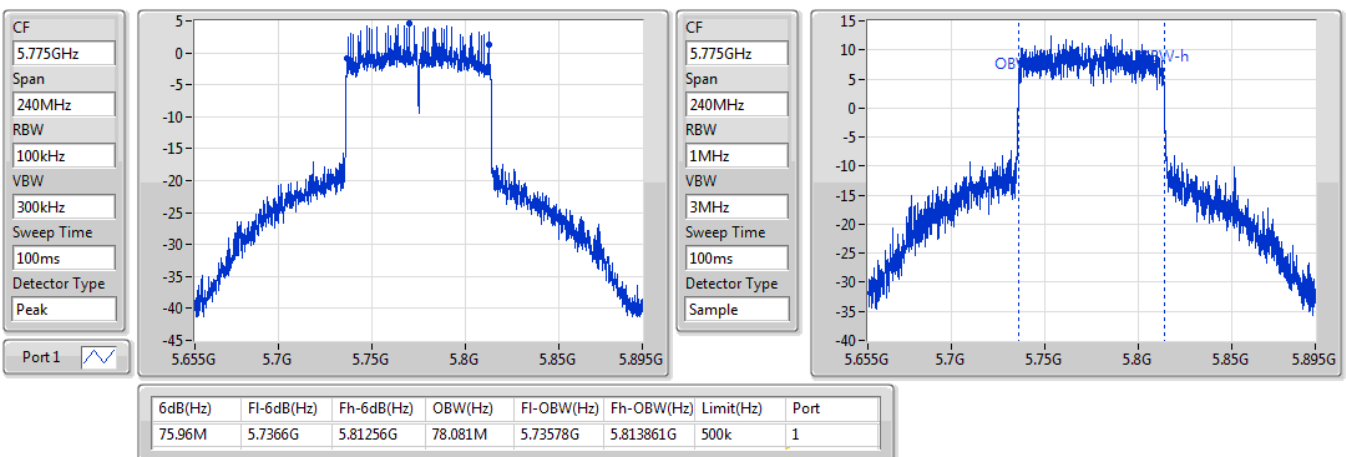


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

26/09/2019





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	43.77M	25.457M	25M5D1D	21.42M	16.612M
802.11ac VHT20_Nss2,(MCS0)_2TX	44.34M	19.76M	19M8D1D	21.81M	17.751M
802.11ac VHT40_Nss2,(MCS0)_2TX	79.26M	36.942M	36M9D1D	40.02M	36.222M
802.11ac VHT80_Nss2,(MCS0)_2TX	81.96M	75.802M	75M8D1D	81.6M	75.802M
802.11ax HEW20_Nss2,(MCS0)_2TX	43.2M	19.85M	19M8D1D	21.54M	18.981M
802.11ax HEW40_Nss2,(MCS0)_2TX	87.72M	37.961M	38M0D1D	39.96M	37.541M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.24M	77.001M	77M0D1D	81.12M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.38M	41.469M	41M5D1D	16.35M	33.193M
802.11ac VHT20_Nss2,(MCS0)_2TX	17.58M	43.538M	43M5D1D	17.55M	34.273M
802.11ac VHT40_Nss2,(MCS0)_2TX	36.3M	54.093M	54M1D1D	36M	45.397M
802.11ac VHT80_Nss2,(MCS0)_2TX	75.48M	76.042M	76M0D1D	75.24M	76.042M
802.11ax HEW20_Nss2,(MCS0)_2TX	18.81M	43.898M	43M9D1D	18.06M	35.802M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.62M	53.133M	53M1D1D	37.2M	41.139M
802.11ax HEW80_Nss2,(MCS0)_2TX	76.68M	77.361M	77M4D1D	75.36M	77.121M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.42M	16.612M	26.13M	16.672M
5200MHz	Pass	Inf	42.33M	17.421M	43.77M	25.457M
5240MHz	Pass	Inf	27.42M	16.792M	42.6M	19.49M
5745MHz	Pass	500k	16.35M	33.193M	16.35M	36.672M
5785MHz	Pass	500k	16.38M	39.31M	16.38M	41.469M
5825MHz	Pass	500k	16.38M	33.493M	16.38M	37.511M
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.81M	17.781M	22.11M	17.751M
5200MHz	Pass	Inf	37.62M	17.991M	44.34M	19.76M
5240MHz	Pass	Inf	29.55M	17.901M	44.16M	19.04M
5745MHz	Pass	500k	17.55M	34.273M	17.55M	38.081M
5785MHz	Pass	500k	17.58M	42.129M	17.58M	43.538M
5825MHz	Pass	500k	17.55M	35.502M	17.55M	38.051M
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.32M	36.222M	40.02M	36.222M
5230MHz	Pass	Inf	60.72M	36.342M	79.26M	36.942M
5755MHz	Pass	500k	36.3M	45.397M	36.24M	49.595M
5795MHz	Pass	500k	36M	51.694M	36.3M	54.093M
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.96M	75.802M	81.6M	75.802M
5775MHz	Pass	500k	75.48M	76.042M	75.24M	76.042M
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.87M	18.981M	21.54M	18.981M
5200MHz	Pass	Inf	36.21M	19.07M	43.2M	19.85M
5240MHz	Pass	Inf	22.92M	19.04M	42.45M	19.61M
5745MHz	Pass	500k	18.81M	36.072M	18.18M	39.52M
5785MHz	Pass	500k	18.75M	42.279M	18.75M	43.898M
5825MHz	Pass	500k	18.78M	35.802M	18.06M	39.88M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.661M	39.96M	37.541M
5230MHz	Pass	Inf	45.96M	37.601M	87.72M	37.961M
5755MHz	Pass	500k	37.62M	41.139M	37.26M	47.136M
5795MHz	Pass	500k	37.62M	48.876M	37.2M	53.133M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.12M	76.762M	81.24M	77.001M
5775MHz	Pass	500k	76.68M	77.121M	75.36M	77.361M

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

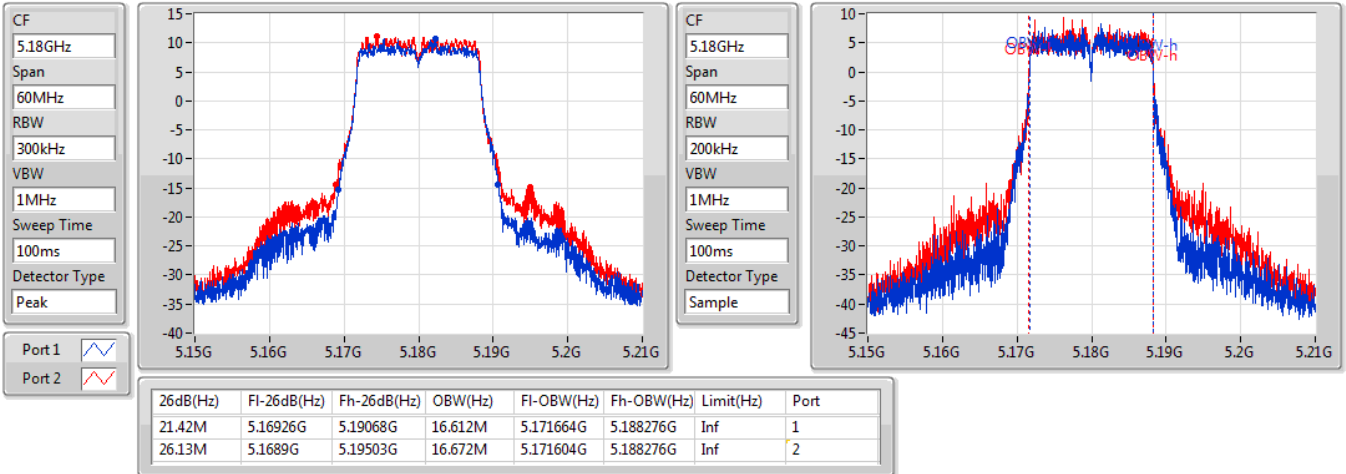
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

04/10/2019

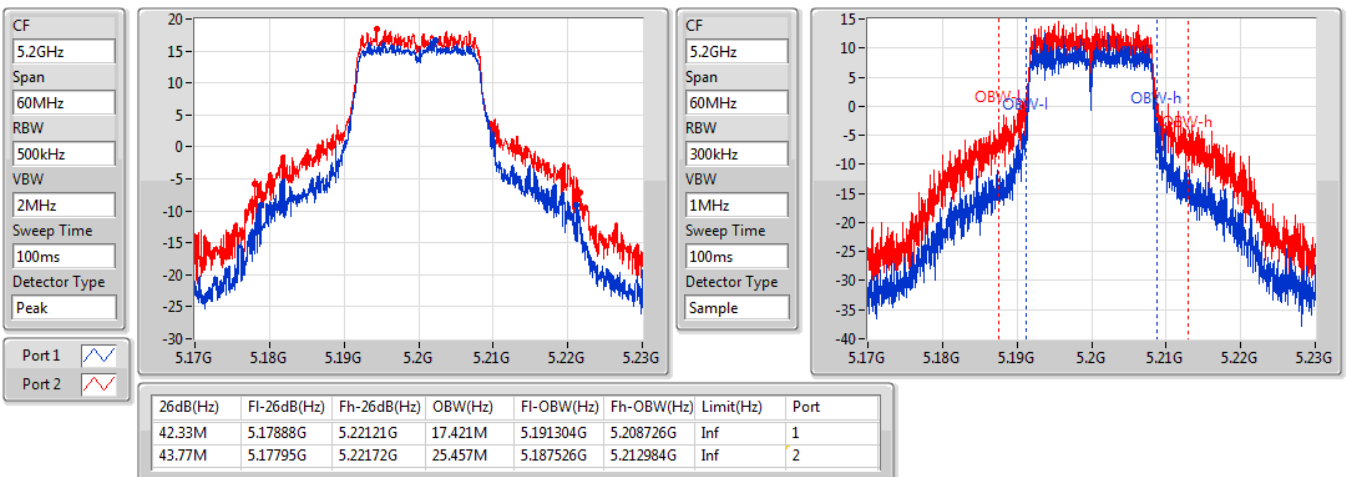


802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

04/10/2019

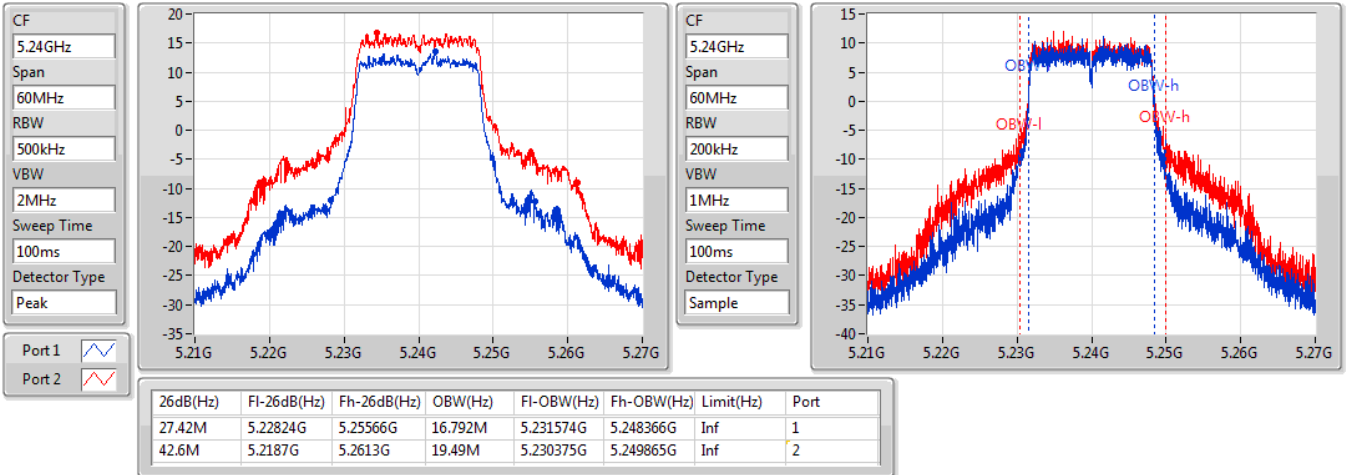


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

04/10/2019

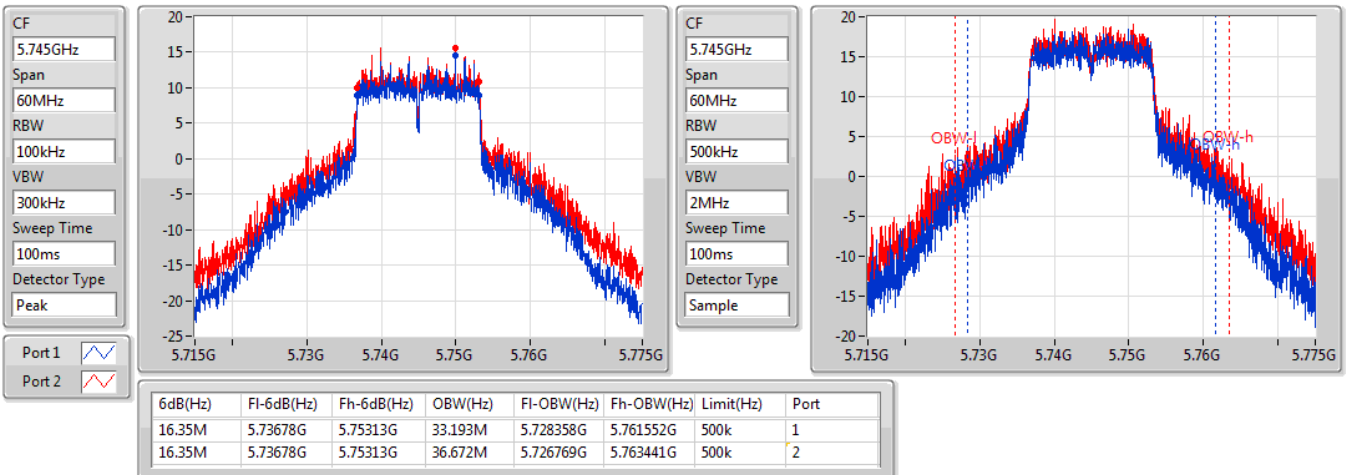


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

04/10/2019



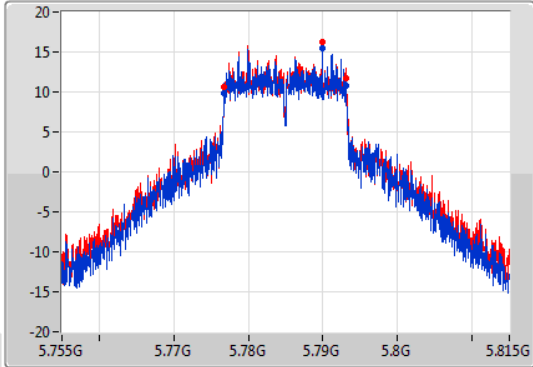
802.11a_Nss1,(6Mbps)_2TX

EBW

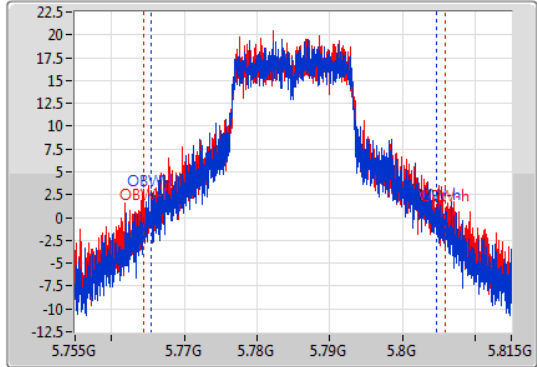
5785MHz

04/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.38M	5.77675G	5.79313G	39.31M	5.76539G	5.8047G	500k	1
16.38M	5.77675G	5.79313G	41.469M	5.7644G	5.80587G	500k	2

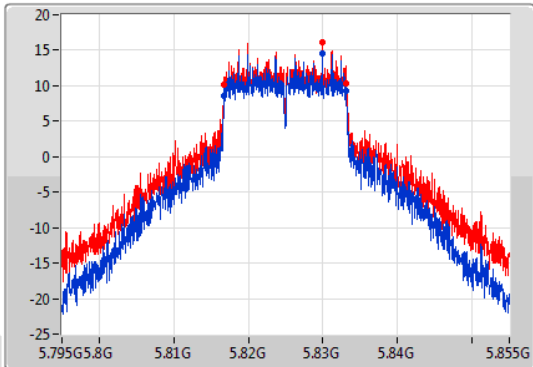
802.11a_Nss1,(6Mbps)_2TX

EBW

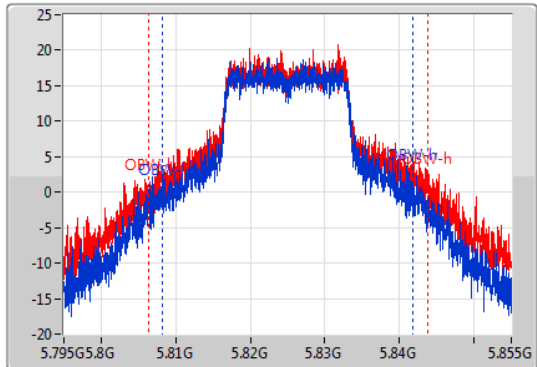
5825MHz

04/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



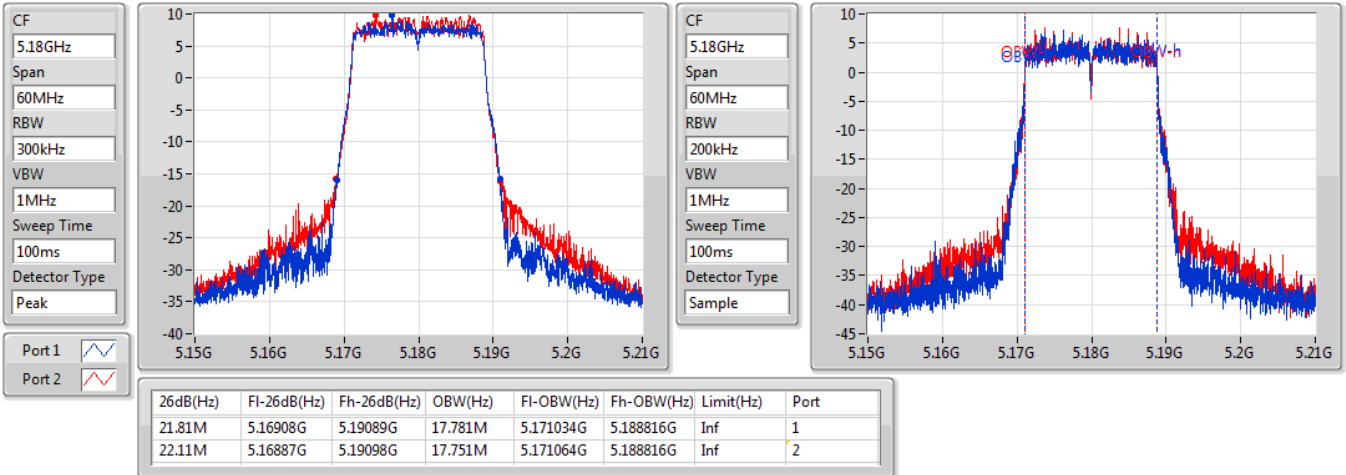
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.38M	5.81675G	5.83313G	33.493M	5.808238G	5.841732G	500k	1
16.38M	5.81675G	5.83313G	37.511M	5.806349G	5.843861G	500k	2

802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5180MHz

30/10/2019

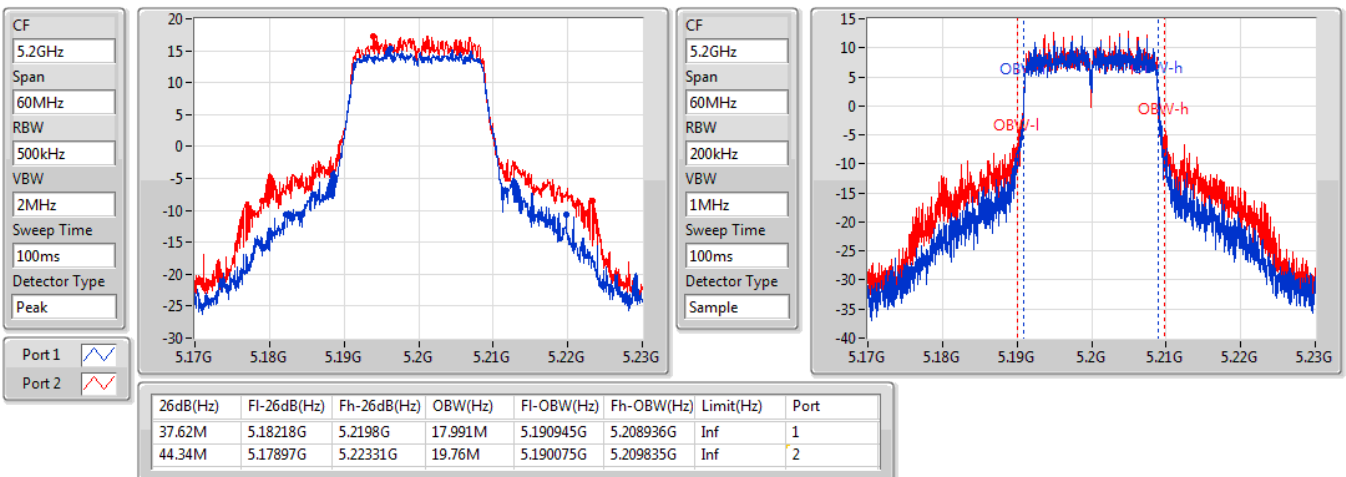


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5200MHz

30/10/2019

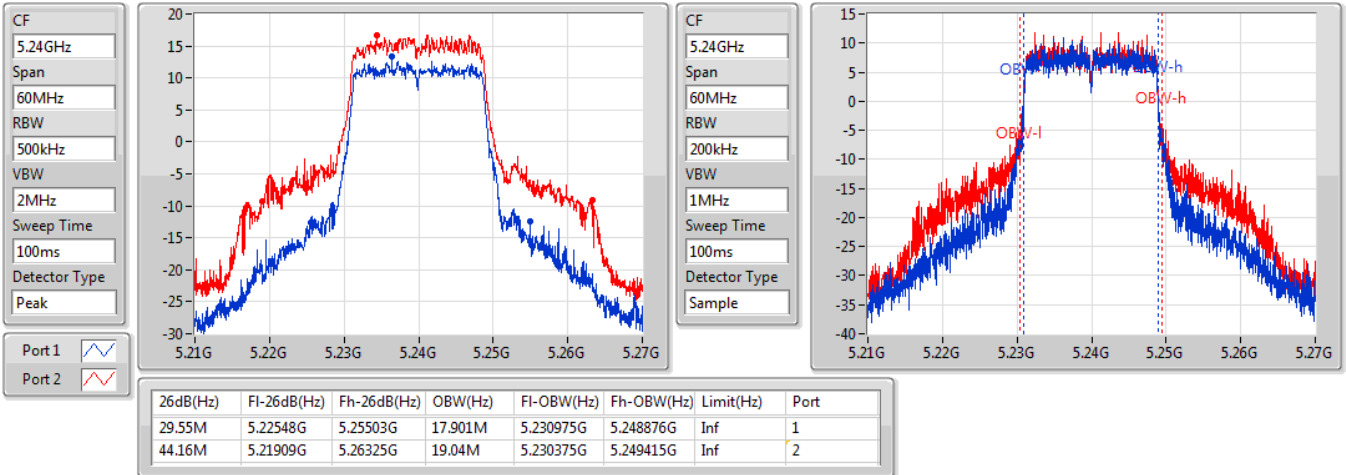


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5240MHz

31/10/2019

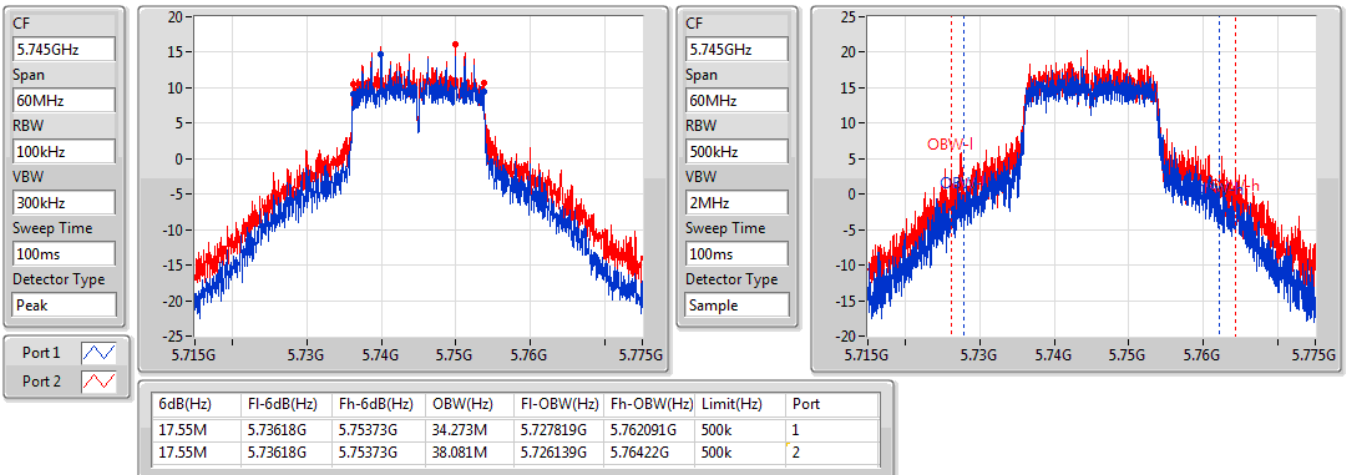


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5745MHz

30/10/2019



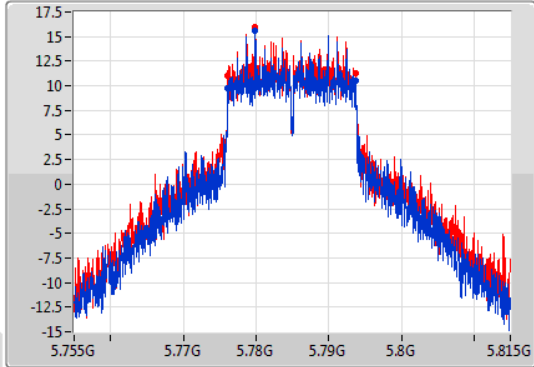
802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

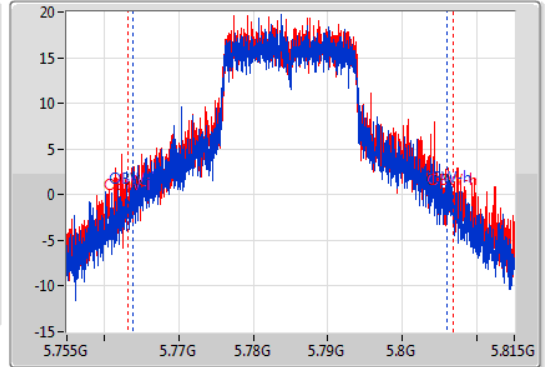
5785MHz

30/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.77615G	5.79373G	42.129M	5.763891G	5.806019G	500k	1
17.58M	5.77615G	5.79373G	43.538M	5.763231G	5.806769G	500k	2

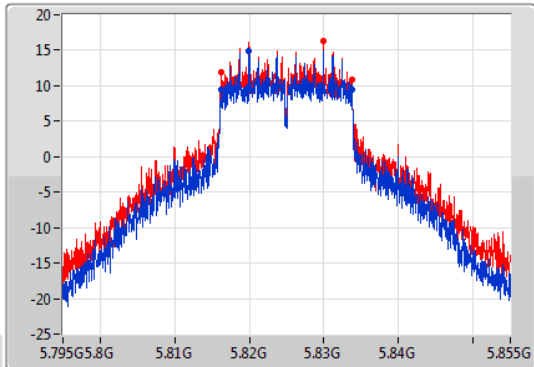
802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

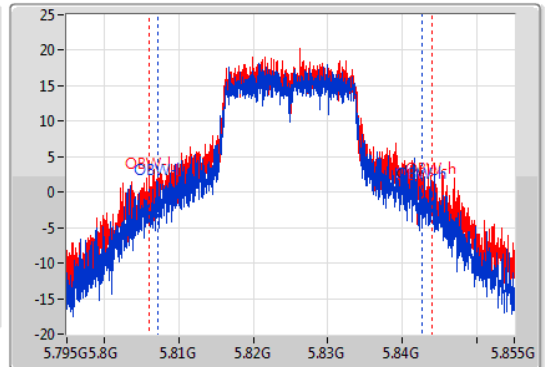
5825MHz

30/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



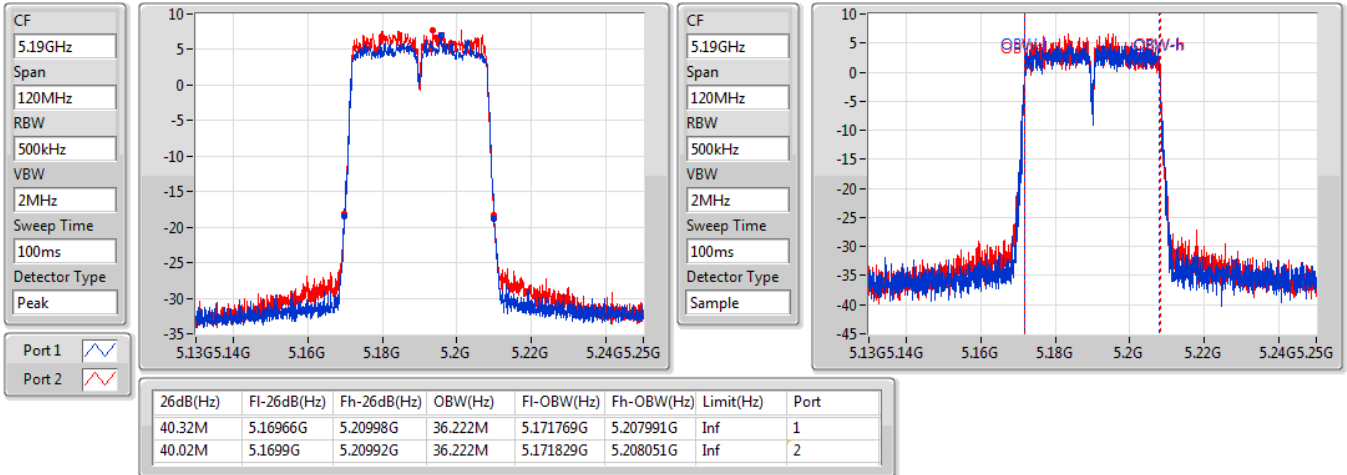
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.81618G	5.83373G	35.502M	5.807189G	5.842691G	500k	1
17.55M	5.81618G	5.83373G	38.051M	5.80599G	5.84404G	500k	2

802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5190MHz

31/10/2019

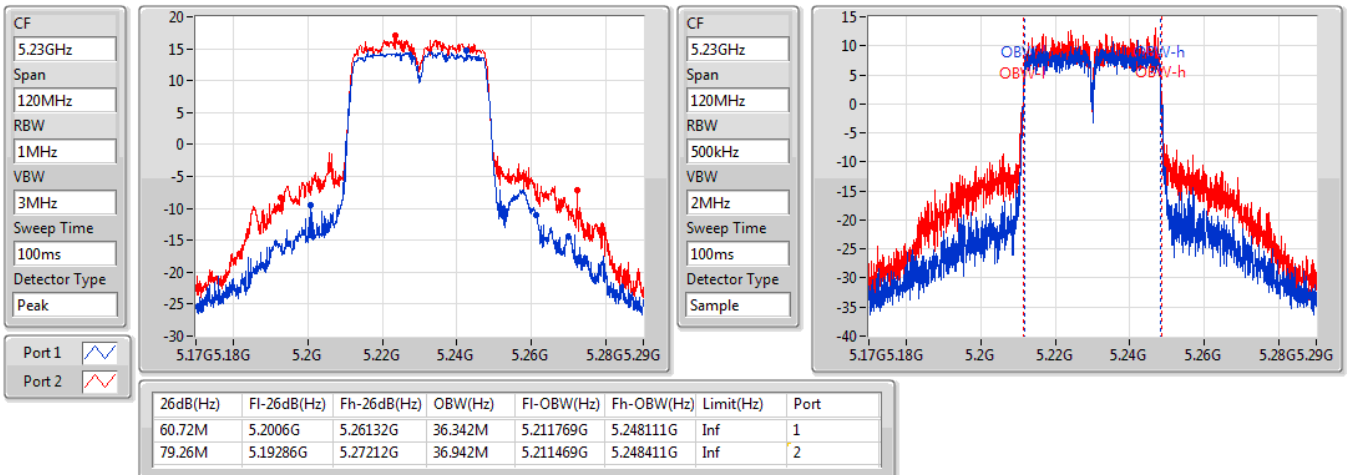


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5230MHz

31/10/2019



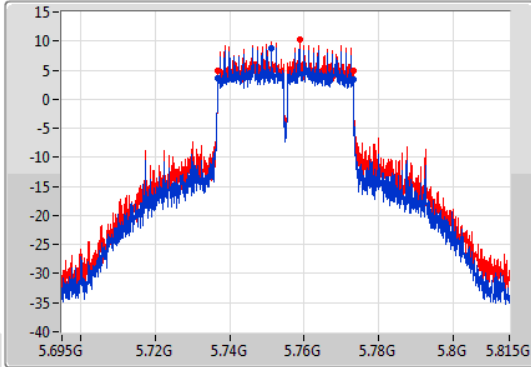
802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

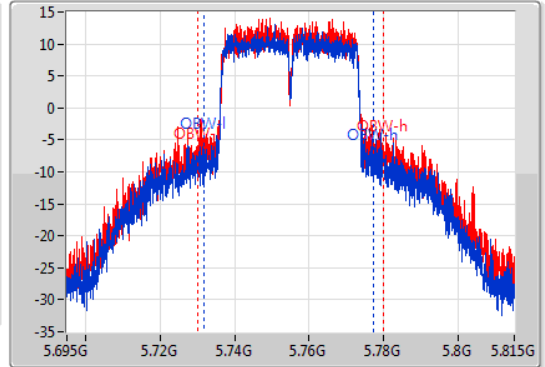
5755MHz

30/10/2019

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.73682G	5.77312G	45.397M	5.731672G	5.777069G	500k	1
36.24M	5.73688G	5.77312G	49.595M	5.730172G	5.779768G	500k	2

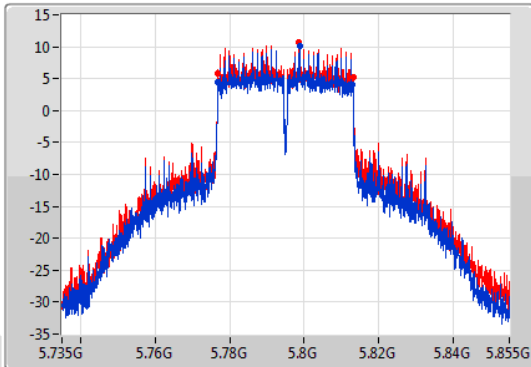
802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

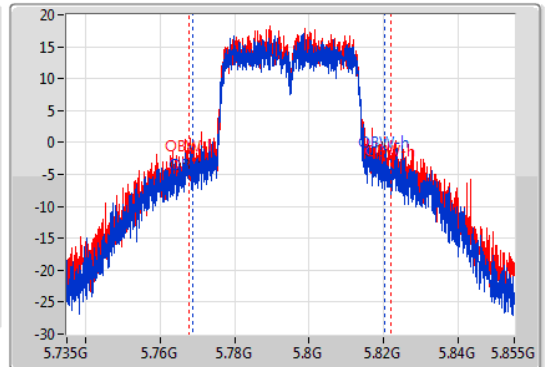
5795MHz

30/10/2019

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



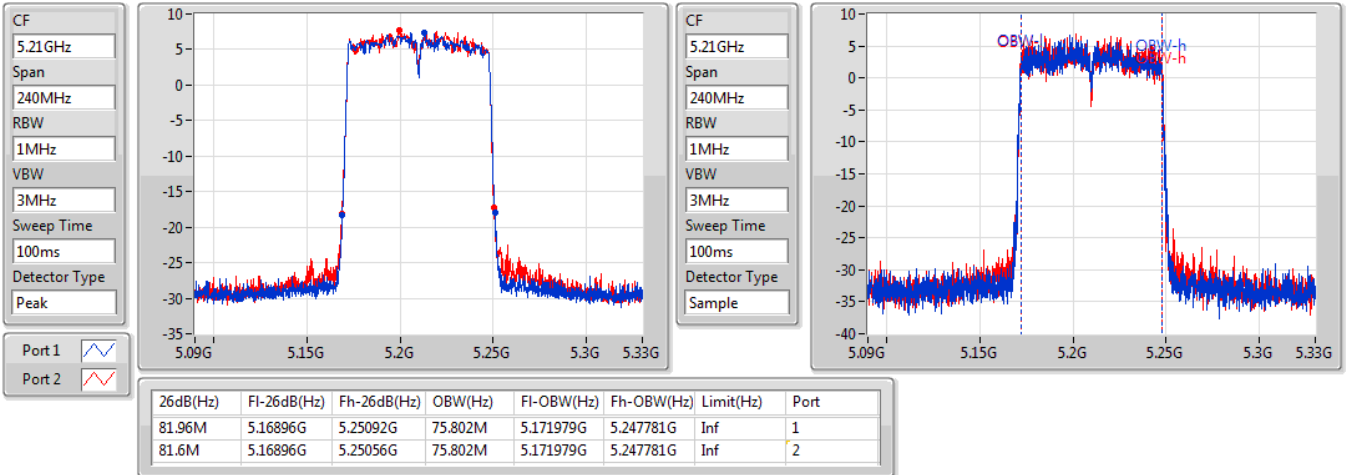
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36M	5.77682G	5.81282G	51.694M	5.768613G	5.820307G	500k	1
36.3M	5.77676G	5.81306G	54.093M	5.767894G	5.821987G	500k	2

802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5210MHz

31/10/2019

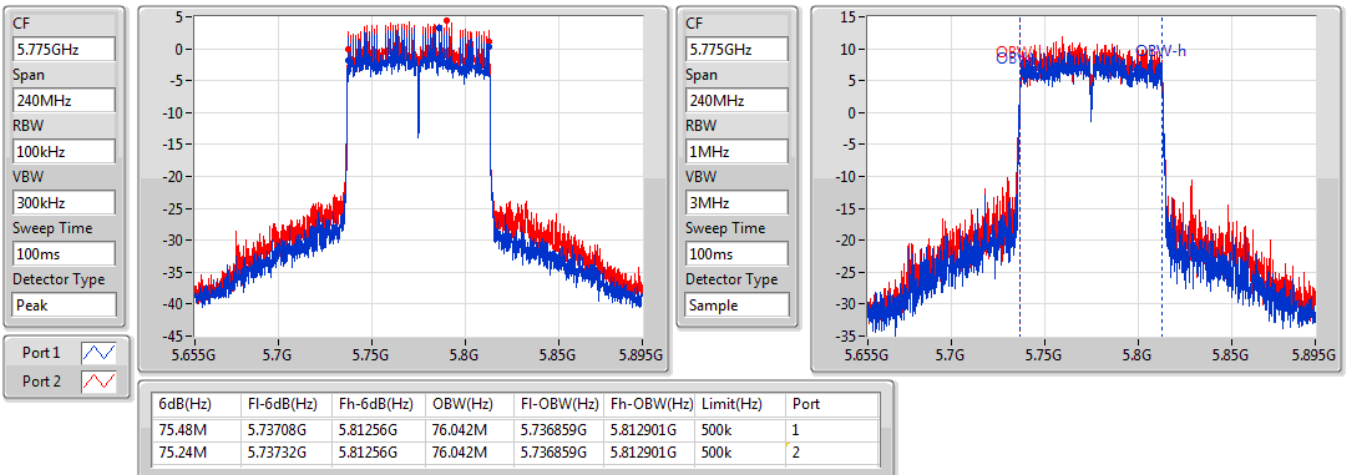


802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5775MHz

30/10/2019

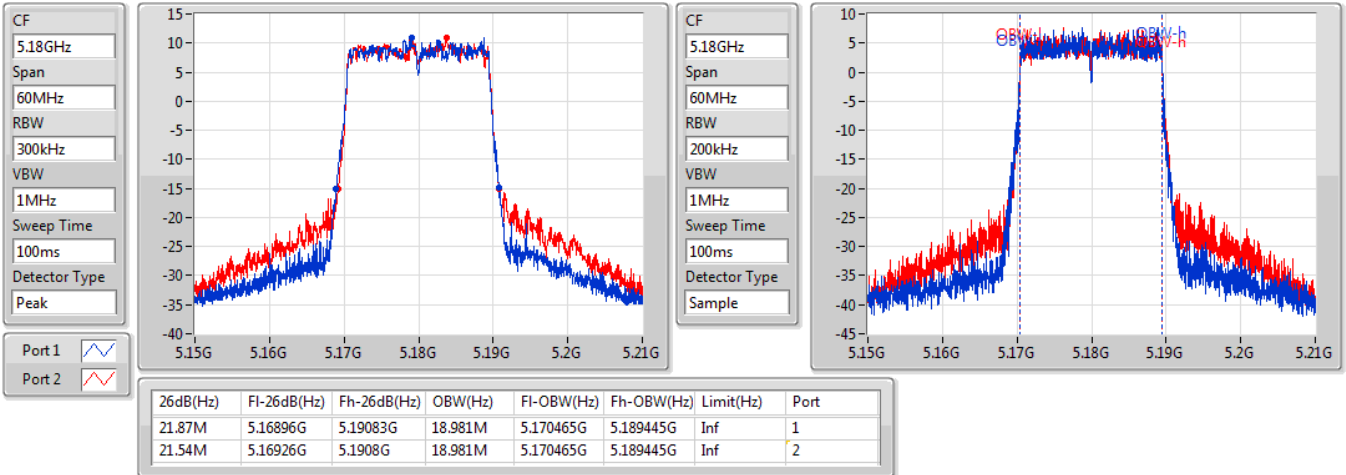


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

04/10/2019

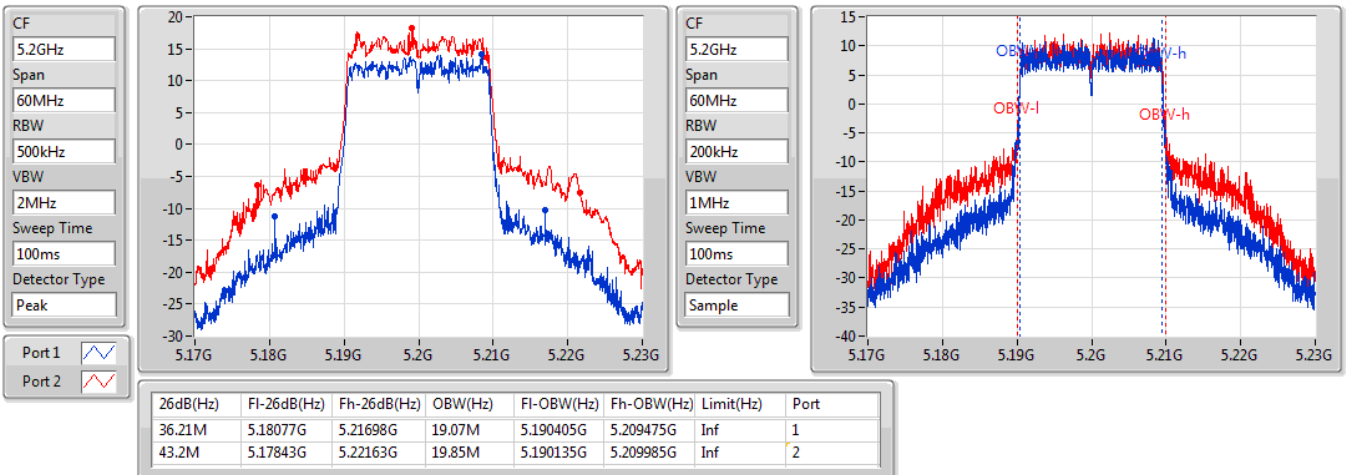


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

05/10/2019

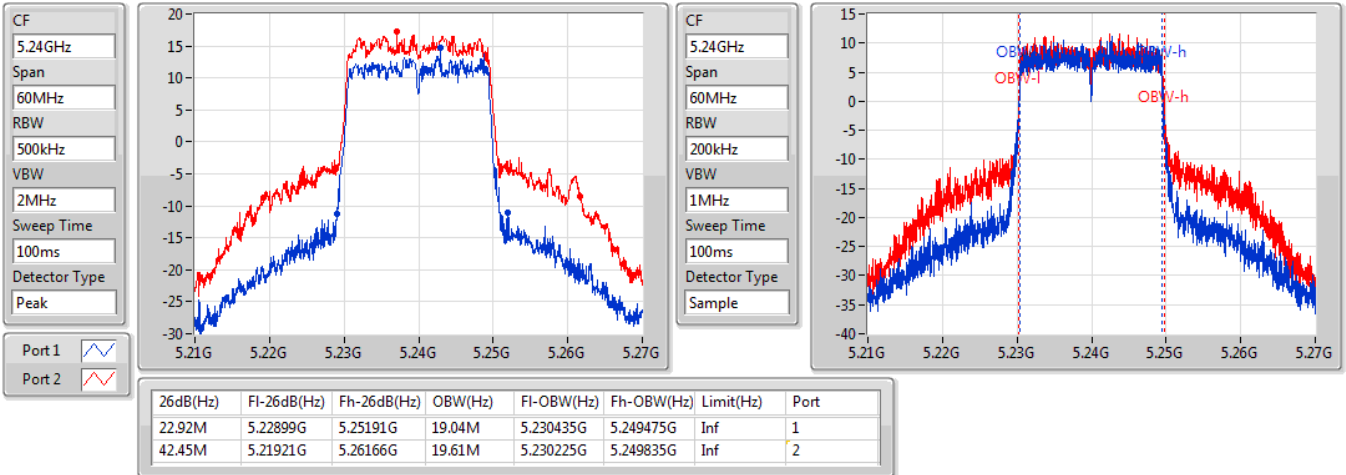


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

05/10/2019

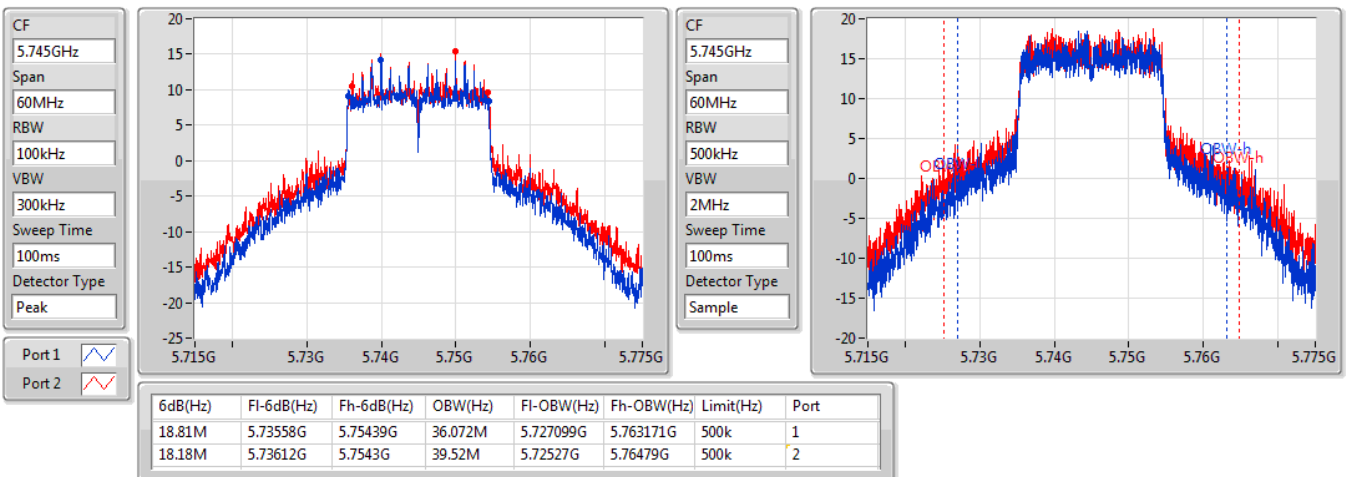


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5745MHz

05/10/2019



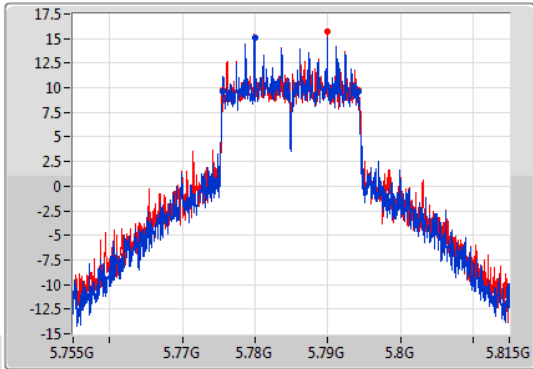
802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

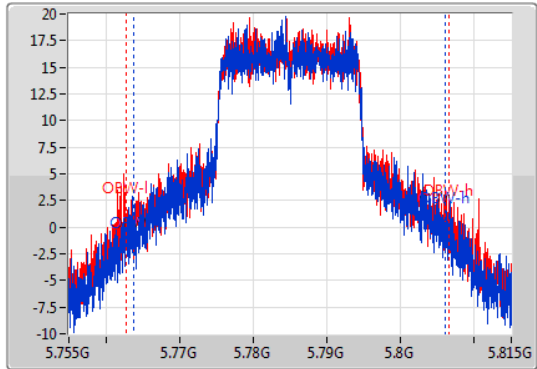
5785MHz

05/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.75M	5.77555G	5.7943G	42.279M	5.763801G	5.806079G	500k	1
18.75M	5.77555G	5.7943G	43.898M	5.762721G	5.806619G	500k	2

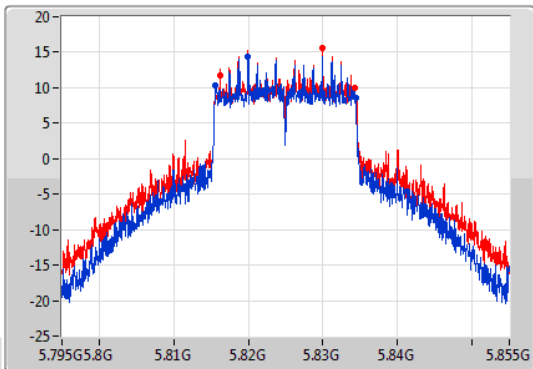
802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

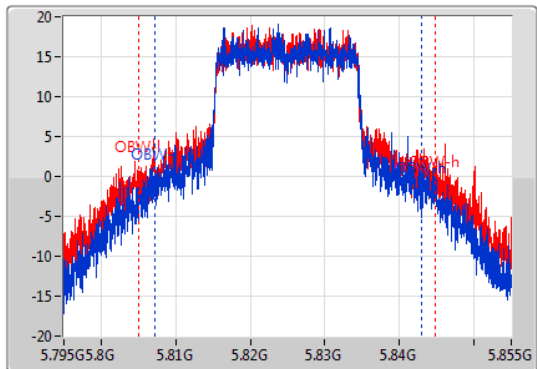
5825MHz

05/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.78M	5.81561G	5.83439G	35.802M	5.807159G	5.842961G	500k	1
18.06M	5.81615G	5.83421G	39.88M	5.805G	5.84488G	500k	2

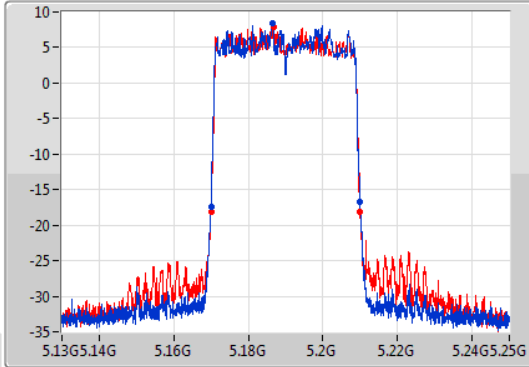
802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

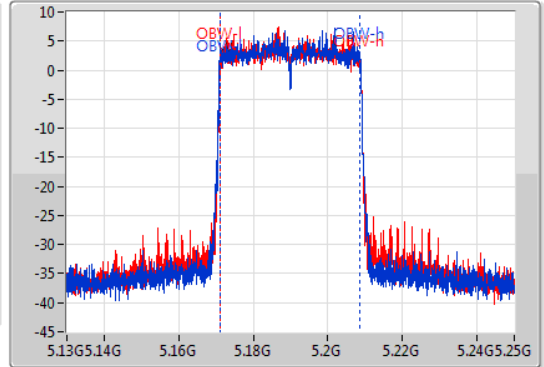
5190MHz

05/10/2019

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.02M	5.16996G	5.20998G	37.661M	5.171049G	5.208711G	Inf	1
39.96M	5.16996G	5.20992G	37.541M	5.171169G	5.208711G	Inf	2

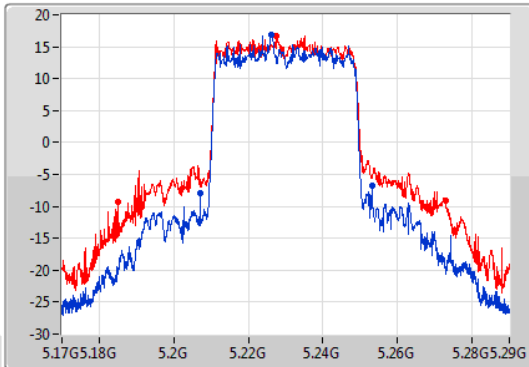
802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

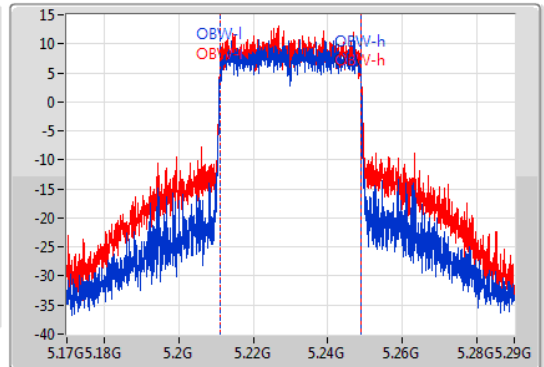
5230MHz

05/10/2019

CF
5.23GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



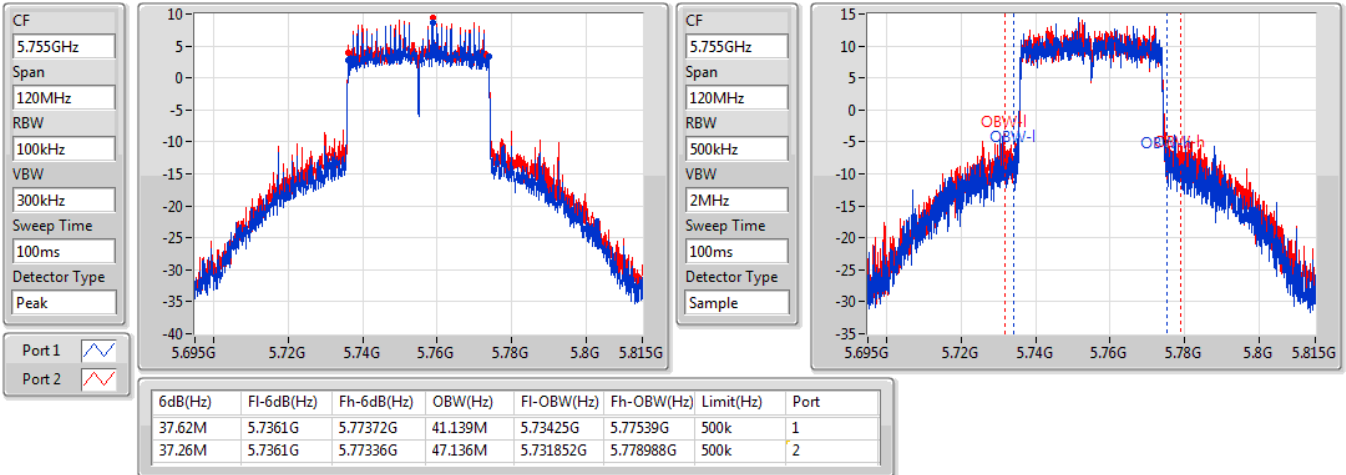
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
45.96M	5.20714G	5.2531G	37.601M	5.211169G	5.248771G	Inf	1
87.72M	5.18512G	5.27284G	37.961M	5.21099G	5.248951G	Inf	2

802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5755MHz

05/10/2019

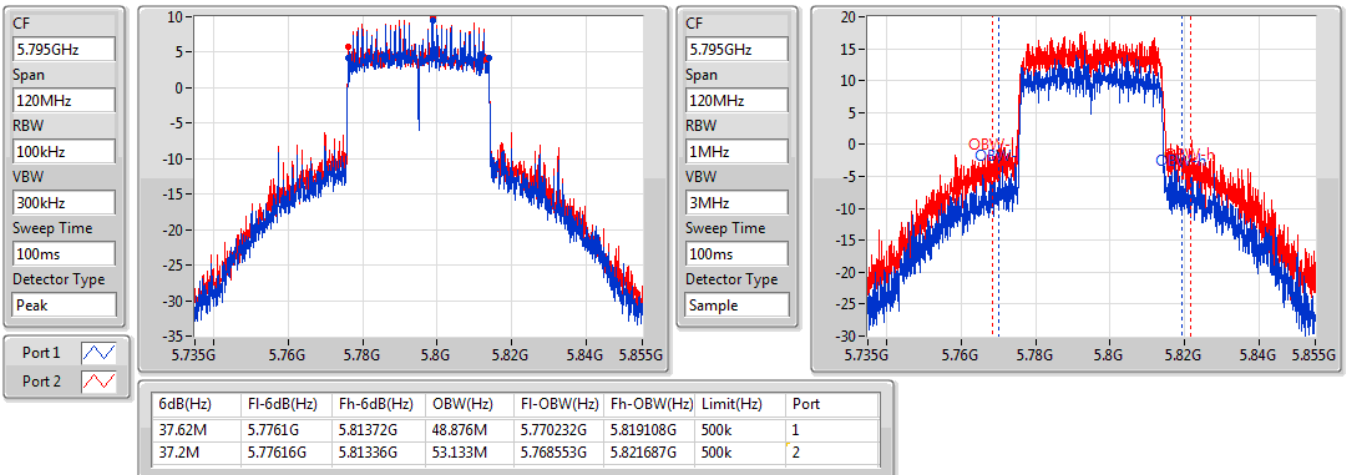


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5795MHz

05/10/2019

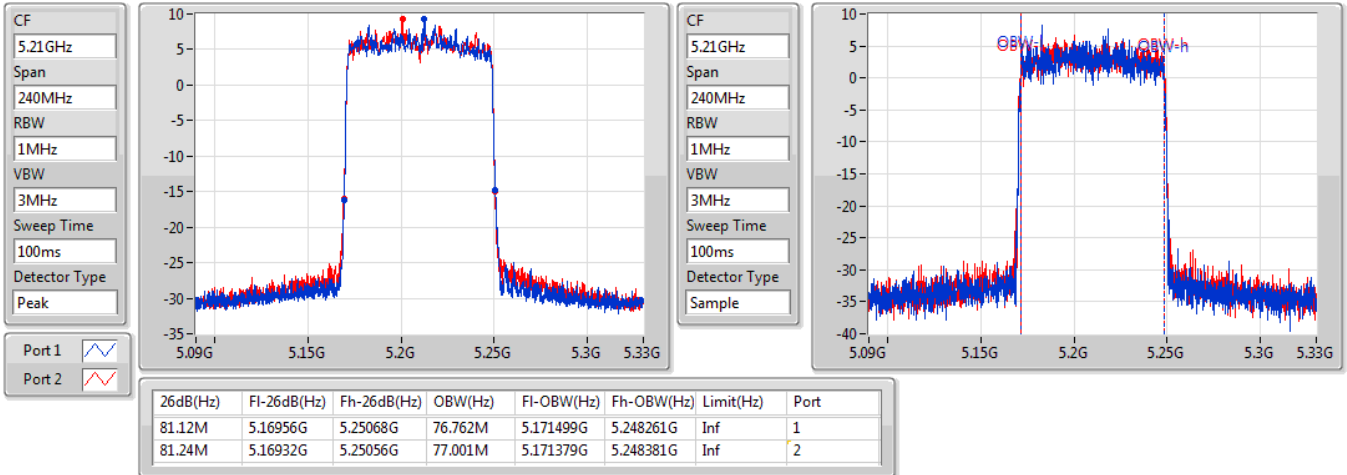


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

05/10/2019

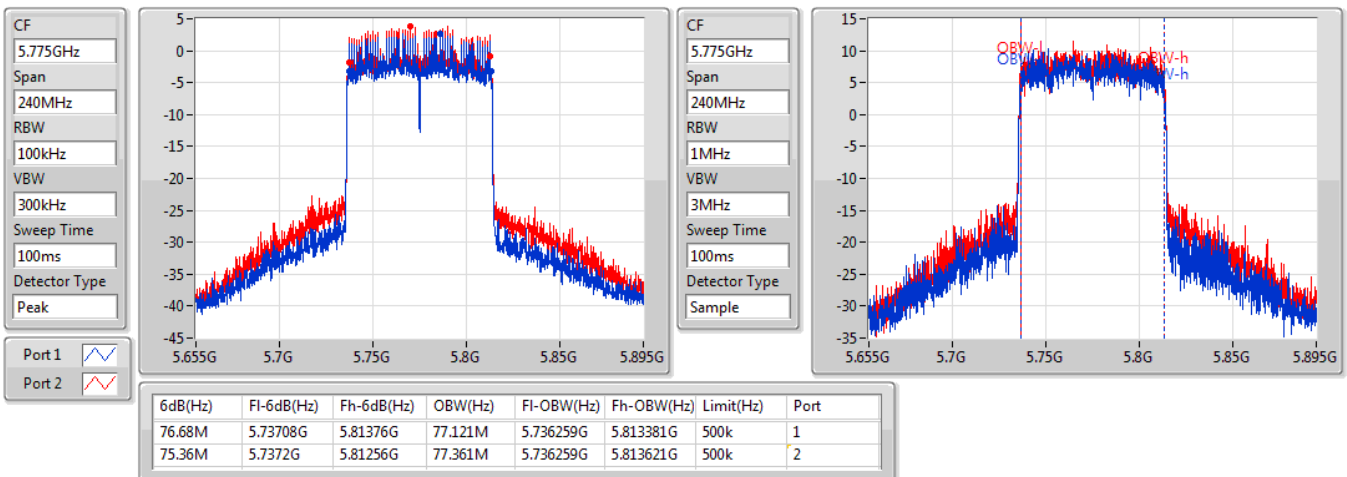


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5775MHz

05/10/2019





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	28.375M	16.642M	16M6D1D	21.475M	16.492M
802.11ac VHT20_Nss1,(MCS0)_4TX	26.375M	17.816M	17M8D1D	21.475M	17.716M
802.11ac VHT40_Nss1,(MCS0)_4TX	74.4M	36.482M	36M5D1D	39.75M	36.182M
802.11ac VHT80_Nss1,(MCS0)_4TX	81.9M	75.762M	75M8D1D	81.3M	75.662M
802.11ax HEW20_Nss1,(MCS0)_4TX	25.075M	19.015M	19M0D1D	21.375M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	76.25M	37.781M	37M8D1D	39.9M	37.431M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.1M	77.261M	77M3D1D	81.4M	77.161M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	33.958M	34M0D1D	16.275M	27.386M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.575M	34.658M	34M7D1D	16.9M	27.861M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.35M	49.175M	49M2D1D	36.05M	36.832M
802.11ac VHT80_Nss1,(MCS0)_4TX	75.7M	75.762M	75M8D1D	75.1M	75.462M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.875M	36.157M	36M2D1D	17.875M	27.636M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.6M	49.725M	49M7D1D	36.1M	37.981M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.7M	77.361M	77M4D1D	75.3M	76.962M

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	21.475M	16.567M	22.4M	16.617M	22.425M	16.567M	21.825M	16.592M
5200MHz	Pass	Inf	21.75M	16.567M	28.375M	16.642M	26.625M	16.592M	21.8M	16.517M
5240MHz	Pass	Inf	21.525M	16.517M	26.625M	16.617M	22.3M	16.567M	21.5M	16.492M
5745MHz	Pass	500k	16.325M	29.085M	16.3M	31.534M	16.275M	27.886M	16.325M	27.911M
5785MHz	Pass	500k	16.325M	28.661M	16.325M	31.659M	16.35M	28.036M	16.35M	27.386M
5825MHz	Pass	500k	16.325M	30.335M	16.325M	33.958M	16.325M	30.51M	16.325M	29.41M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.775M	17.766M	21.775M	17.766M	21.5M	17.816M	21.7M	17.716M
5200MHz	Pass	Inf	22.275M	17.791M	24.425M	17.791M	21.55M	17.791M	21.925M	17.766M
5240MHz	Pass	Inf	21.875M	17.791M	26.375M	17.816M	21.475M	17.716M	21.675M	17.741M
5745MHz	Pass	500k	16.9M	30.135M	17.175M	31.809M	17.525M	27.886M	17.55M	27.861M
5785MHz	Pass	500k	17.5M	31.584M	17.25M	34.658M	17.575M	29.935M	17.25M	30.135M
5825MHz	Pass	500k	17.5M	30.71M	17.125M	32.234M	17.275M	28.011M	17.525M	29.46M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.35M	36.232M	39.75M	36.232M	40.15M	36.332M	40.05M	36.182M
5230MHz	Pass	Inf	41.9M	36.232M	74.4M	36.482M	59.2M	36.332M	45.55M	36.232M
5755MHz	Pass	500k	36.1M	38.581M	36.05M	39.88M	36.3M	36.832M	36.3M	36.932M
5795MHz	Pass	500k	36.35M	48.426M	36.3M	49.175M	36.3M	39.18M	36.3M	41.879M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	75.662M	81.5M	75.762M	81.3M	75.762M	81.9M	75.662M
5775MHz	Pass	500k	75.1M	75.762M	75.7M	75.762M	75.1M	75.762M	75.7M	75.462M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.375M	19.015M	21.575M	18.966M	21.7M	18.966M	21.625M	18.941M
5200MHz	Pass	Inf	23.275M	18.966M	25.075M	18.991M	23.175M	18.991M	23.175M	18.941M
5240MHz	Pass	Inf	23.45M	18.991M	23.375M	18.966M	24.3M	18.941M	22.675M	18.991M
5745MHz	Pass	500k	18.675M	30.81M	18.675M	32.509M	18.475M	27.636M	17.875M	27.911M
5785MHz	Pass	500k	18M	32.734M	18.85M	35.582M	18.575M	30.585M	18.55M	31.359M
5825MHz	Pass	500k	18.75M	32.784M	18.8M	36.157M	18.875M	31.809M	18.8M	31.709M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.431M	39.9M	37.481M	39.9M	37.581M	40.05M	37.581M
5230MHz	Pass	Inf	40.15M	37.531M	76.25M	37.781M	44.5M	37.581M	41.6M	37.581M
5755MHz	Pass	500k	37.6M	38.681M	36.7M	39.38M	36.95M	37.981M	36.45M	38.131M
5795MHz	Pass	500k	37.5M	44.928M	36.1M	49.725M	37.55M	40.08M	36.25M	38.881M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.1M	77.161M	81.9M	77.261M	81.4M	77.161M	81.8M	77.161M
5775MHz	Pass	500k	75.3M	77.061M	76M	77.361M	77.7M	76.962M	76.3M	77.161M

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

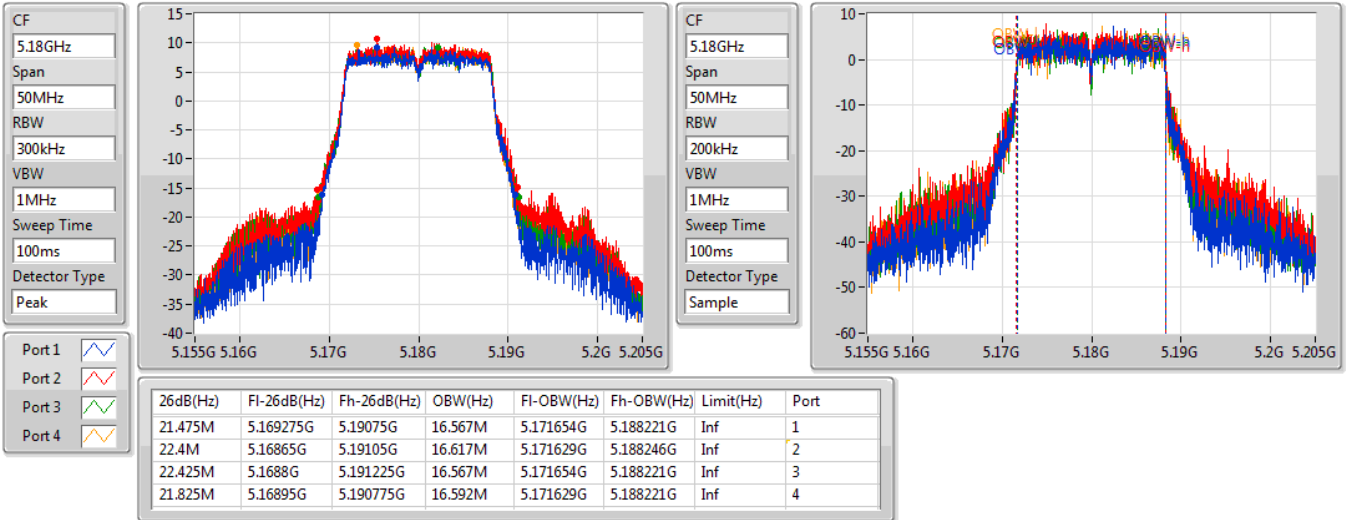
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

26/09/2019

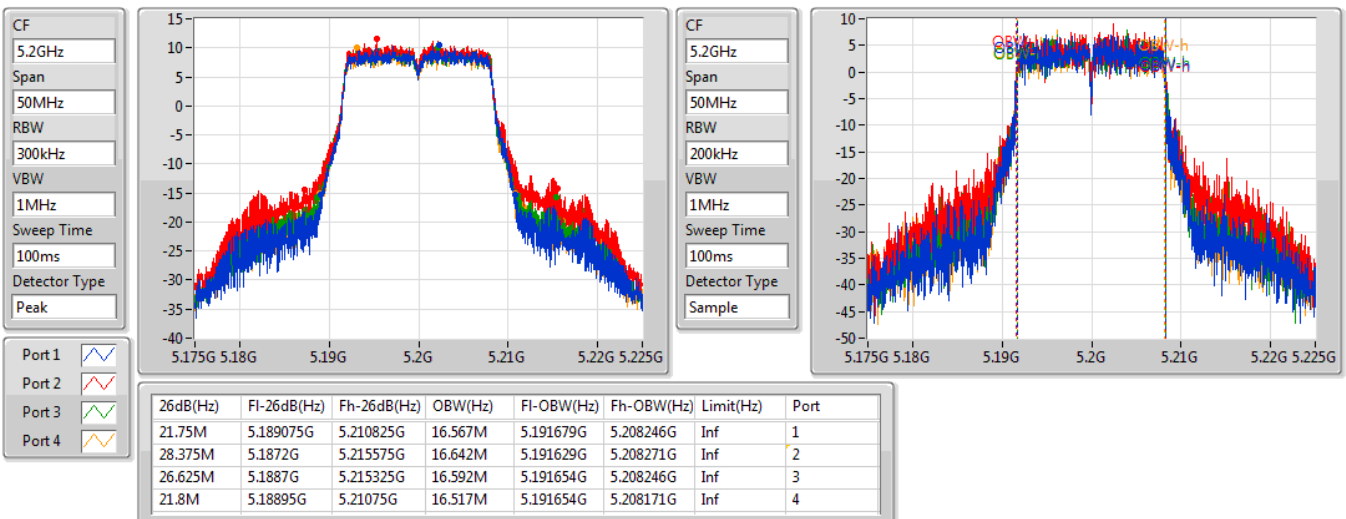


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

26/09/2019



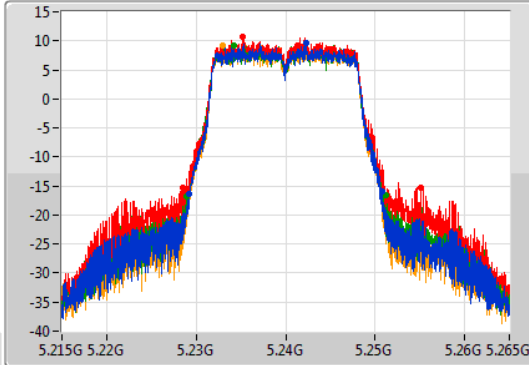
802.11a_Nss1,(6Mbps)_4TX

EBW

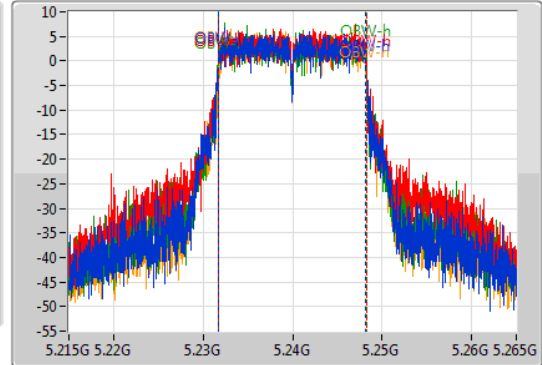
5240MHz

26/09/2019

CF: 5.24GHz
 Span: 50MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 50MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.525M	5.2292G	5.250725G	16.517M	5.231679G	5.248196G	Inf	1
26.625M	5.228525G	5.25515G	16.617M	5.231654G	5.248271G	Inf	2
22.3M	5.2289G	5.2512G	16.567M	5.231654G	5.248221G	Inf	3
21.5M	5.22925G	5.25075G	16.492M	5.231704G	5.248196G	Inf	4

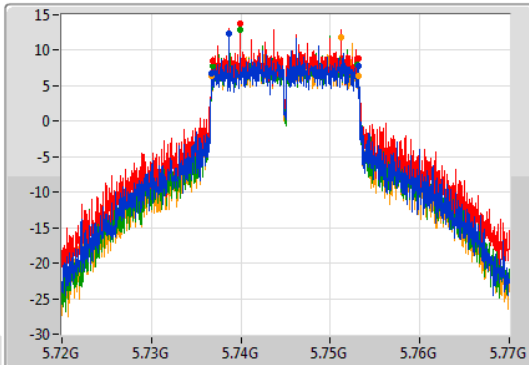
802.11a_Nss1,(6Mbps)_4TX

EBW

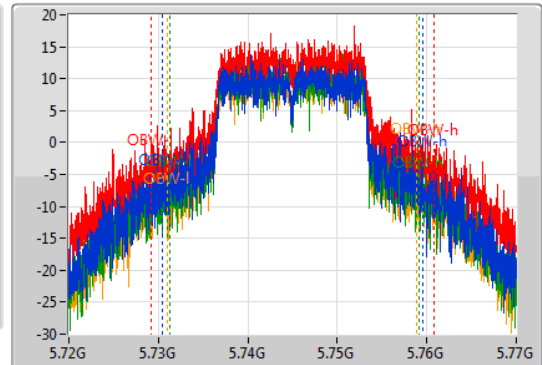
5745MHz

26/09/2019

CF: 5.745GHz
 Span: 50MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.745GHz
 Span: 50MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.736775G	5.7531G	29.085M	5.730407G	5.759493G	500k	1
16.3M	5.7368G	5.7531G	31.534M	5.729258G	5.760792G	500k	2
16.275M	5.7368G	5.753075G	27.886M	5.731232G	5.759118G	500k	3
16.325M	5.736775G	5.7531G	27.911M	5.731007G	5.758918G	500k	4

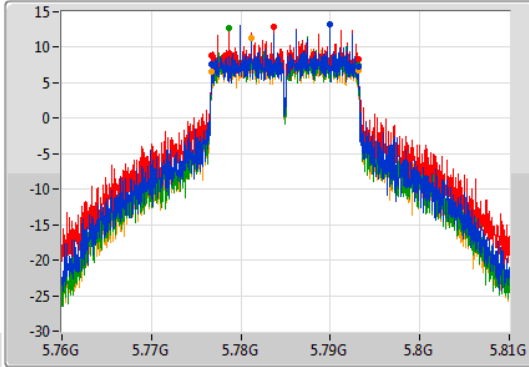
802.11a_Nss1,(6Mbps)_4TX

EBW

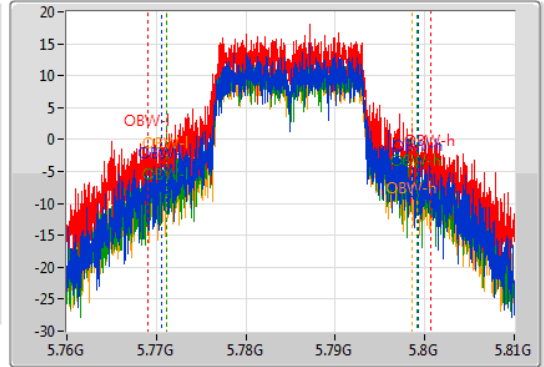
5785MHz

26/09/2019

CF: 5.785GHz
 Span: 50MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.785GHz
 Span: 50MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1
 Port 2
 Port 3
 Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.776775G	5.7931G	28.661M	5.770632G	5.799293G	500k	1
16.325M	5.776775G	5.7931G	31.659M	5.769058G	5.800717G	500k	2
16.35M	5.77675G	5.7931G	28.036M	5.771082G	5.799118G	500k	3
16.35M	5.77675G	5.7931G	27.386M	5.771207G	5.798593G	500k	4

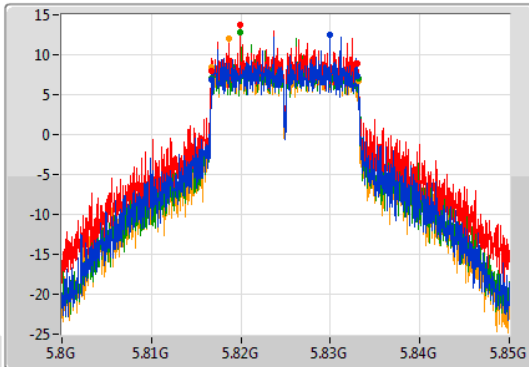
802.11a_Nss1,(6Mbps)_4TX

EBW

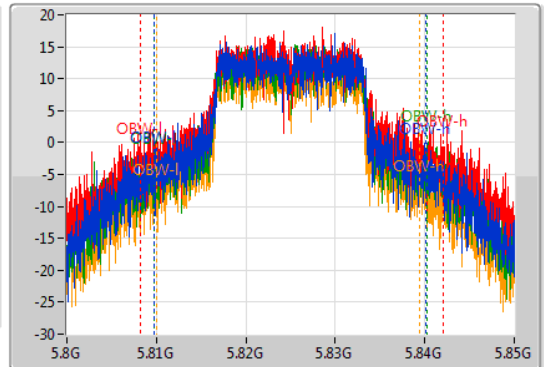
5825MHz

26/09/2019

CF: 5.825GHz
 Span: 50MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.825GHz
 Span: 50MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1
 Port 2
 Port 3
 Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.81675G	5.833075G	30.335M	5.809758G	5.840092G	500k	1
16.325M	5.81675G	5.833075G	33.958M	5.808158G	5.842116G	500k	2
16.325M	5.816775G	5.8331G	30.51M	5.809808G	5.840317G	500k	3
16.325M	5.816775G	5.8331G	29.41M	5.810007G	5.839418G	500k	4

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

31/10/2019

CF
5.18GHz

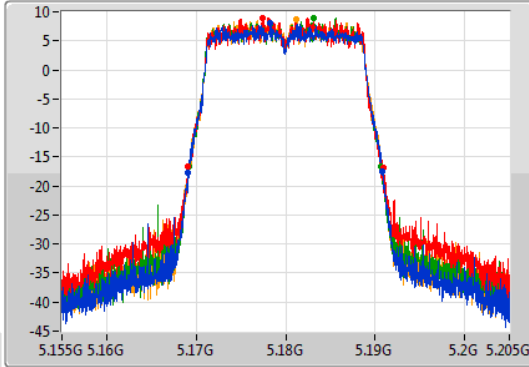
Span
50MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.18GHz

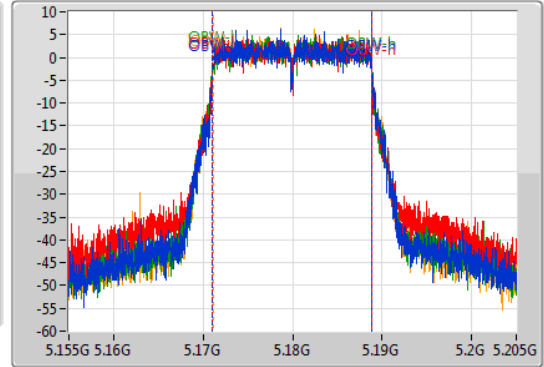
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.775M	5.169075G	5.19085G	17.766M	5.171079G	5.188846G	Inf	1
21.775M	5.1691G	5.190875G	17.766M	5.171079G	5.188846G	Inf	2
21.5M	5.16915G	5.19065G	17.816M	5.171029G	5.188846G	Inf	3
21.7M	5.16915G	5.19085G	17.716M	5.171104G	5.188821G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

31/10/2019

CF
5.2GHz

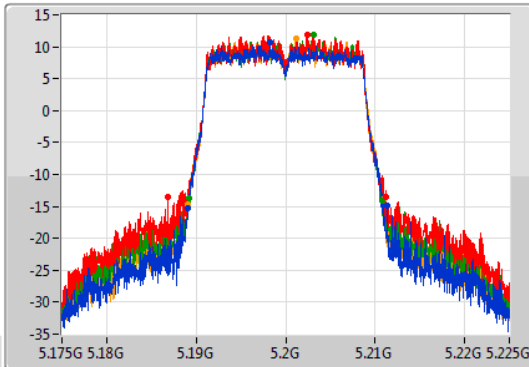
Span
50MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.2GHz

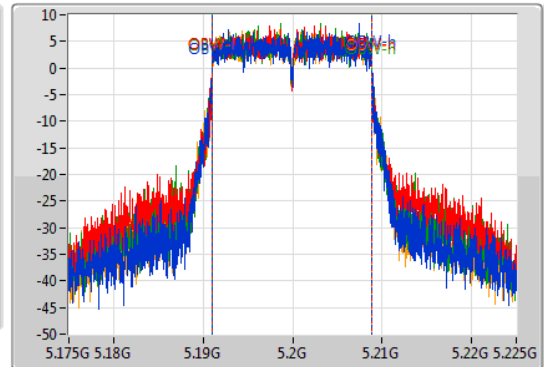
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.275M	5.189075G	5.21135G	17.791M	5.191054G	5.208846G	Inf	1
24.425M	5.1868G	5.211225G	17.791M	5.191029G	5.208821G	Inf	2
21.55M	5.189175G	5.210725G	17.791M	5.191054G	5.208846G	Inf	3
21.925M	5.18905G	5.210975G	17.766M	5.191054G	5.208821G	Inf	4

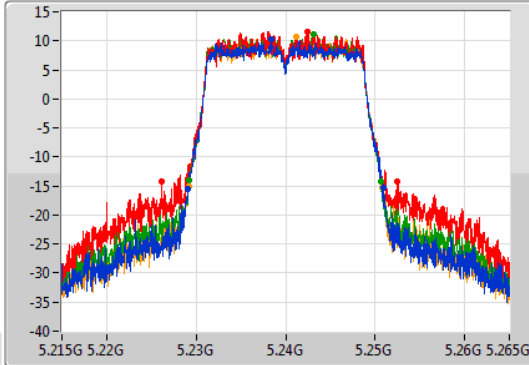
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

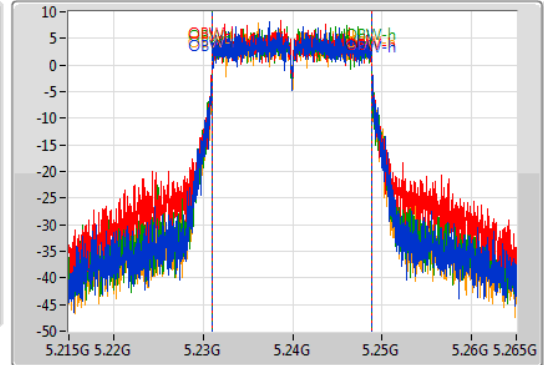
5240MHz

31/10/2019

CF: 5.24GHz
 Span: 50MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 50MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.875M	5.229025G	5.2509G	17.791M	5.231054G	5.248846G	Inf	1
26.375M	5.2261G	5.252475G	17.816M	5.231029G	5.248846G	Inf	2
21.475M	5.229175G	5.25065G	17.716M	5.231079G	5.248796G	Inf	3
21.675M	5.229175G	5.25085G	17.741M	5.231079G	5.248821G	Inf	4

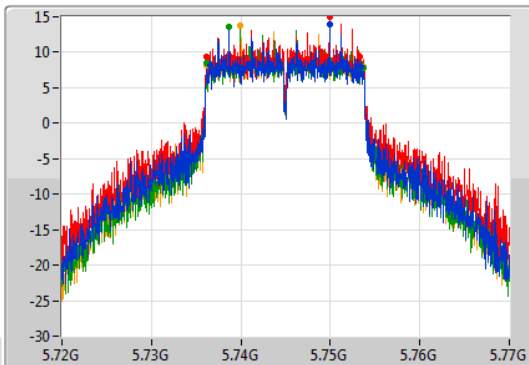
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

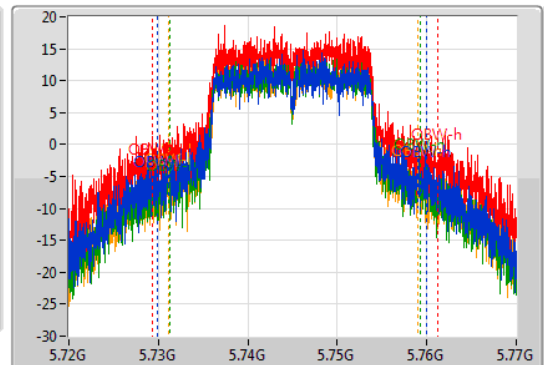
5745MHz

30/10/2019

CF: 5.745GHz
 Span: 50MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.745GHz
 Span: 50MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.9M	5.73655G	5.75345G	30.135M	5.729833G	5.759968G	500k	1
17.175M	5.736175G	5.75335G	31.809M	5.729358G	5.761167G	500k	2
17.525M	5.7362G	5.753725G	27.886M	5.731332G	5.759218G	500k	3
17.55M	5.736175G	5.753725G	27.861M	5.731132G	5.758993G	500k	4

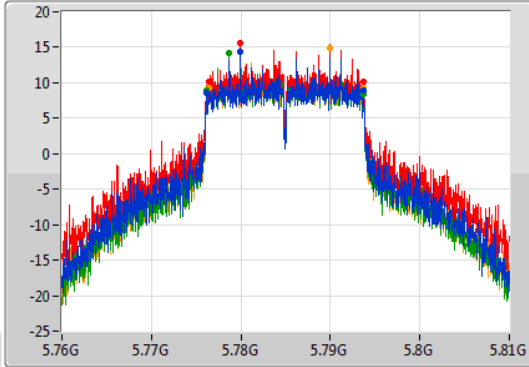
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

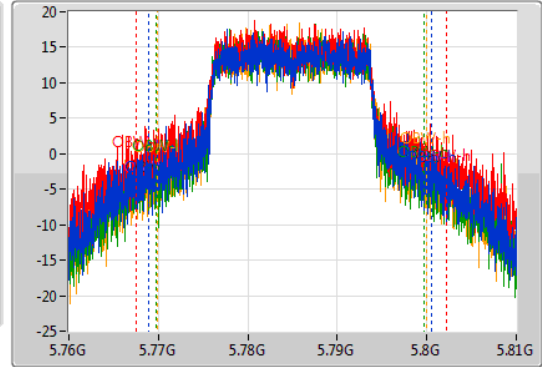
5785MHz

30/10/2019

CF
5.785GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
50MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.5M	5.7762G	5.7937G	31.584M	5.768958G	5.800542G	500k	1
17.25M	5.77645G	5.7937G	34.658M	5.767584G	5.802241G	500k	2
17.575M	5.77615G	5.793725G	29.935M	5.769808G	5.799743G	500k	3
17.25M	5.77645G	5.7937G	30.135M	5.769858G	5.799993G	500k	4

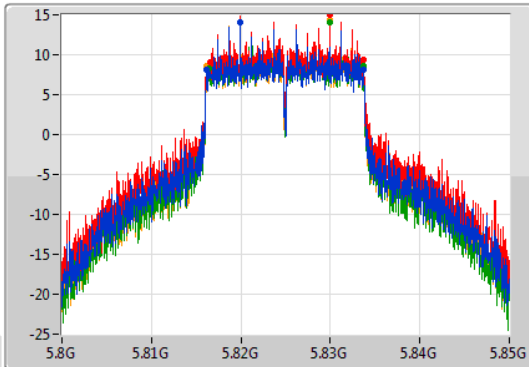
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

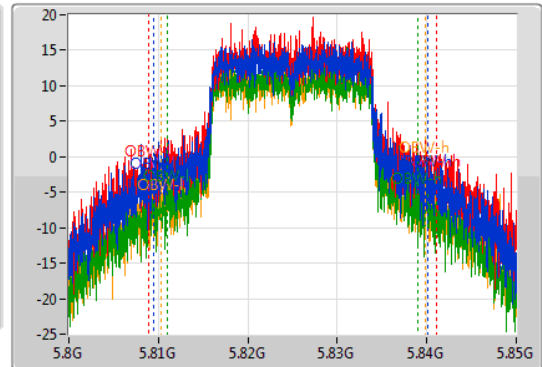
5825MHz

30/10/2019

CF
5.825GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
50MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.5M	5.8162G	5.8337G	30.71M	5.809433G	5.840142G	500k	1
17.125M	5.816575G	5.8337G	32.234M	5.808883G	5.841117G	500k	2
17.275M	5.816425G	5.8337G	28.011M	5.811007G	5.839018G	500k	3
17.525M	5.816175G	5.8337G	29.46M	5.810307G	5.839768G	500k	4

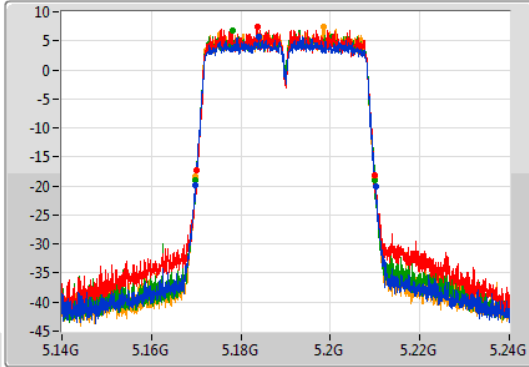
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

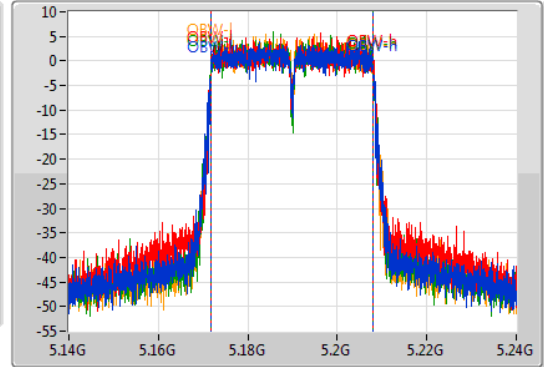
5190MHz

31/10/2019

CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.35M	5.1698G	5.21015G	36.232M	5.171809G	5.208041G	Inf	1
39.75M	5.1702G	5.20995G	36.232M	5.171859G	5.208091G	Inf	2
40.15M	5.1699G	5.21005G	36.332M	5.171759G	5.208091G	Inf	3
40.05M	5.1699G	5.20995G	36.182M	5.171809G	5.207991G	Inf	4

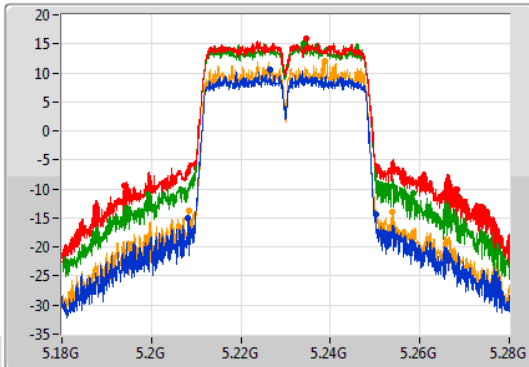
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

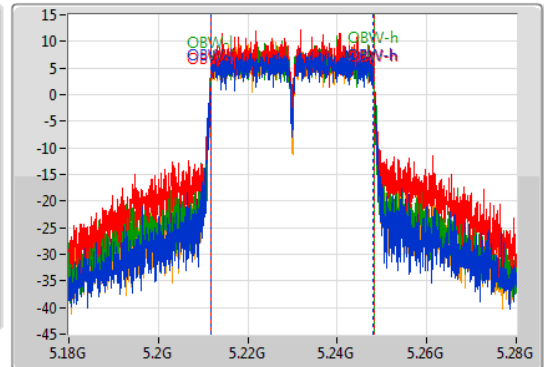
5230MHz

31/10/2019

CF
5.23GHz
Span
100MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.9M	5.20825G	5.25015G	36.232M	5.211809G	5.248041G	Inf	1
74.4M	5.19385G	5.26825G	36.482M	5.211709G	5.248191G	Inf	2
59.2M	5.19925G	5.25845G	36.332M	5.211809G	5.248141G	Inf	3
45.55M	5.20835G	5.2539G	36.232M	5.211809G	5.248041G	Inf	4

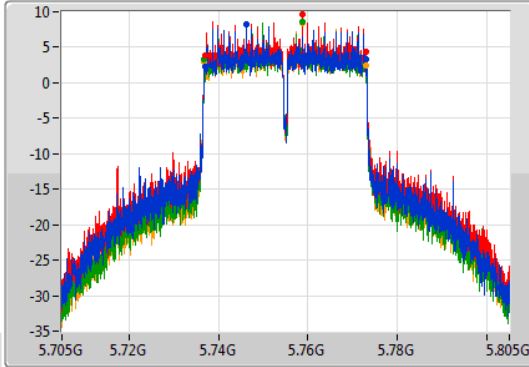
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

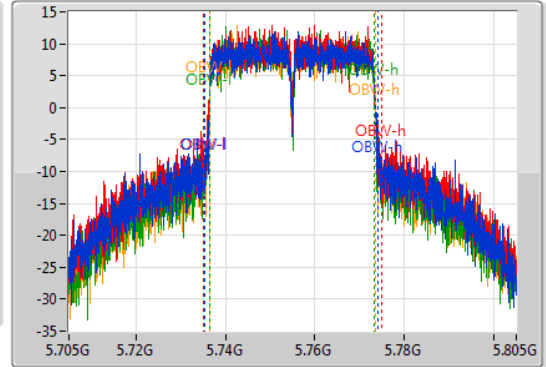
5755MHz

30/10/2019

CF
5.755GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.1M	5.737G	5.7731G	38.581M	5.73546G	5.77404G	500k	1
36.05M	5.73705G	5.7731G	39.88M	5.73506G	5.77494G	500k	2
36.3M	5.7368G	5.7731G	36.832M	5.736509G	5.773341G	500k	3
36.3M	5.7368G	5.7731G	36.932M	5.736559G	5.773491G	500k	4

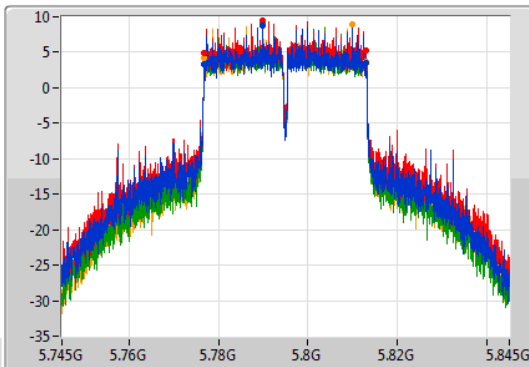
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

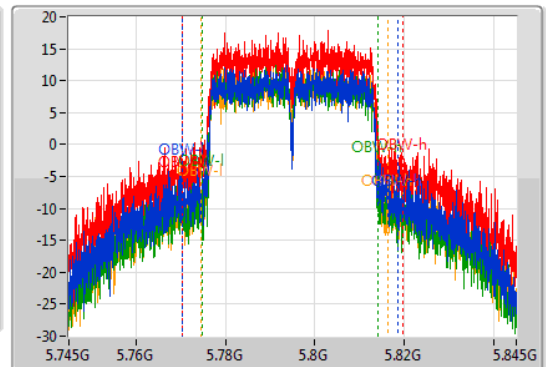
5795MHz

30/10/2019

CF
5.795GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
100MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.35M	5.77675G	5.8131G	48.426M	5.770212G	5.818638G	500k	1
36.3M	5.7768G	5.8131G	49.175M	5.770462G	5.819638G	500k	2
36.3M	5.7768G	5.8131G	39.18M	5.77481G	5.813991G	500k	3
36.3M	5.7768G	5.8131G	41.879M	5.77451G	5.816389G	500k	4

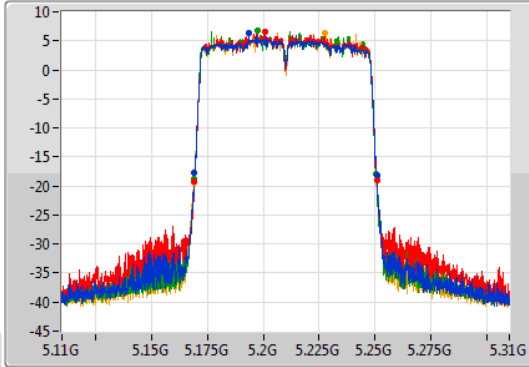
802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

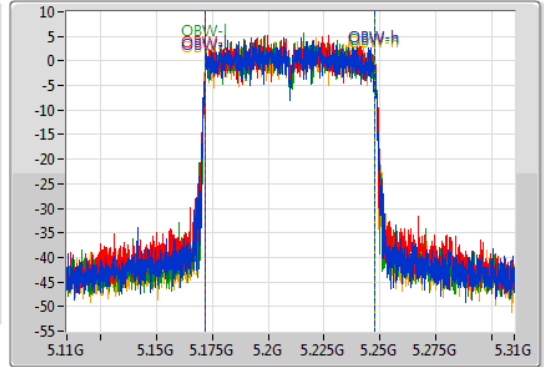
5210MHz

31/10/2019

CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.6M	5.1692G	5.2508G	75.662M	5.172019G	5.247681G	Inf	1
81.5M	5.1692G	5.2507G	75.762M	5.172019G	5.247781G	Inf	2
81.3M	5.1693G	5.2506G	75.762M	5.172019G	5.247781G	Inf	3
81.9M	5.1689G	5.2508G	75.662M	5.172019G	5.247681G	Inf	4

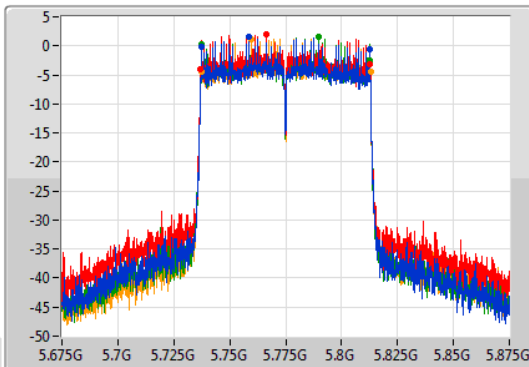
802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

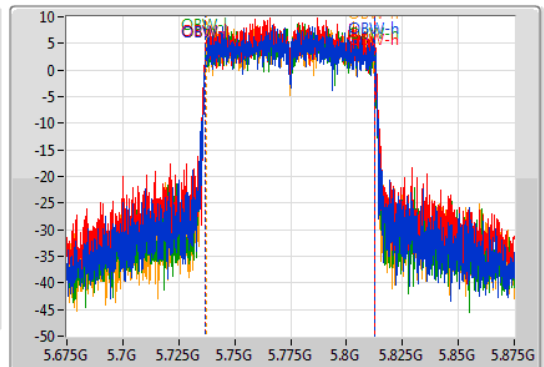
5775MHz

30/10/2019

CF
5.775GHz
Span
200MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.1M	5.7374G	5.8125G	75.762M	5.737019G	5.812781G	500k	1
75.7M	5.7368G	5.8125G	75.762M	5.736919G	5.812681G	500k	2
75.1M	5.7374G	5.8125G	75.762M	5.736919G	5.812681G	500k	3
75.7M	5.7374G	5.8131G	75.462M	5.737119G	5.812581G	500k	4

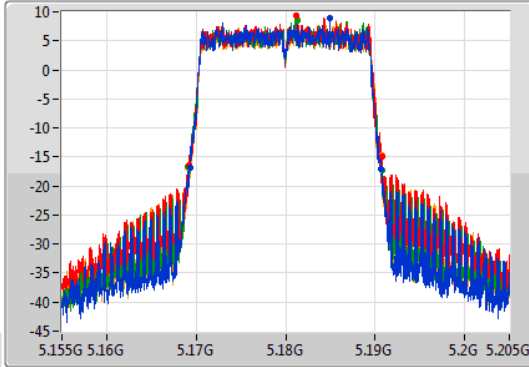
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

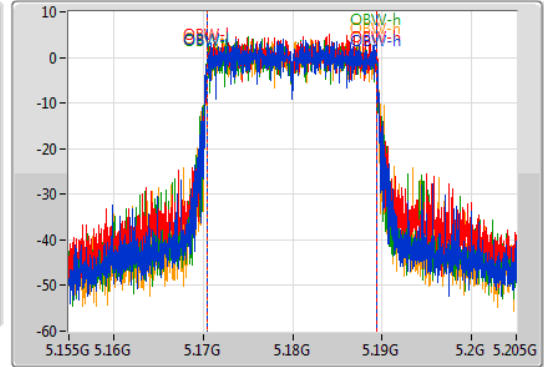
5180MHz

26/09/2019

CF
5.18GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.375M	5.1693G	5.190675G	19.015M	5.170405G	5.18942G	Inf	1
21.575M	5.169175G	5.19075G	18.966M	5.170455G	5.18942G	Inf	2
21.7M	5.1691G	5.1908G	18.966M	5.17043G	5.189395G	Inf	3
21.625M	5.169125G	5.19075G	18.941M	5.170455G	5.189395G	Inf	4

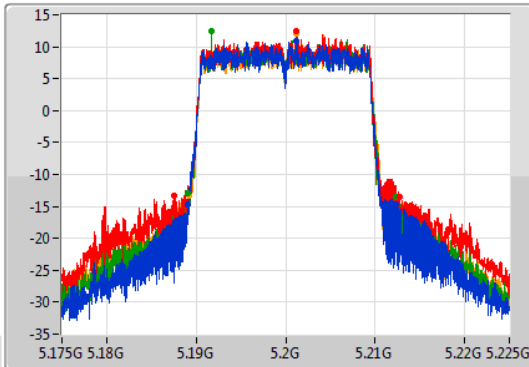
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

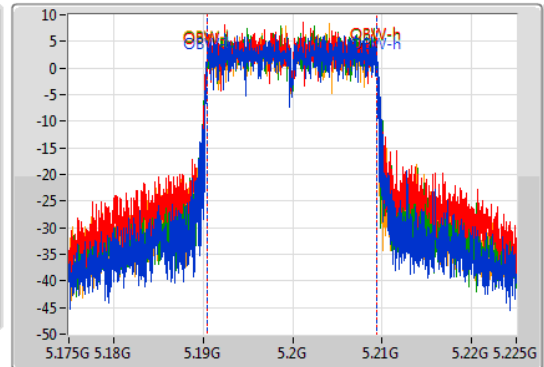
5200MHz

26/09/2019

CF
5.2GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.275M	5.189075G	5.21235G	18.966M	5.190455G	5.20942G	Inf	1
25.075M	5.1876G	5.212675G	18.991M	5.19043G	5.20942G	Inf	2
23.175M	5.189125G	5.2123G	18.991M	5.19043G	5.20942G	Inf	3
23.175M	5.1892G	5.212375G	18.941M	5.190455G	5.209395G	Inf	4

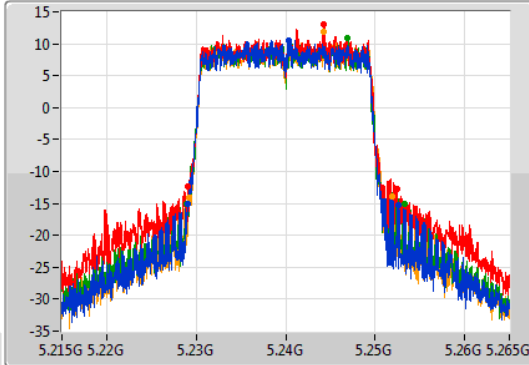
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

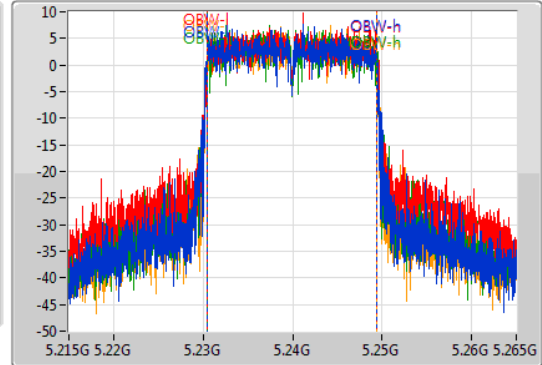
5240MHz

26/09/2019

CF: 5.24GHz
 Span: 50MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 50MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.45M	5.2291G	5.25255G	18.991M	5.23043G	5.24942G	Inf	1
23.375M	5.229075G	5.25245G	18.966M	5.230455G	5.24942G	Inf	2
24.3M	5.22895G	5.25325G	18.941M	5.23048G	5.24942G	Inf	3
22.675M	5.229175G	5.25185G	18.991M	5.23043G	5.24942G	Inf	4

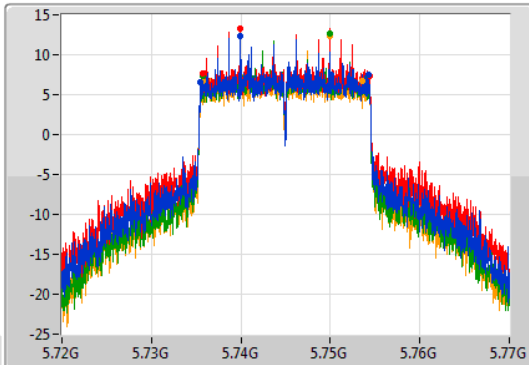
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

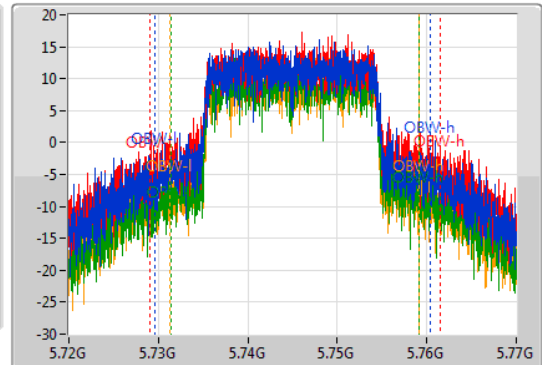
5745MHz

26/09/2019

CF: 5.745GHz
 Span: 50MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.745GHz
 Span: 50MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.675M	5.735525G	5.7542G	30.81M	5.729608G	5.760417G	500k	1
18.675M	5.735725G	5.7544G	32.509M	5.729008G	5.761517G	500k	2
18.475M	5.73575G	5.754225G	27.636M	5.731457G	5.759093G	500k	3
17.875M	5.7357G	5.753575G	27.911M	5.731282G	5.759193G	500k	4

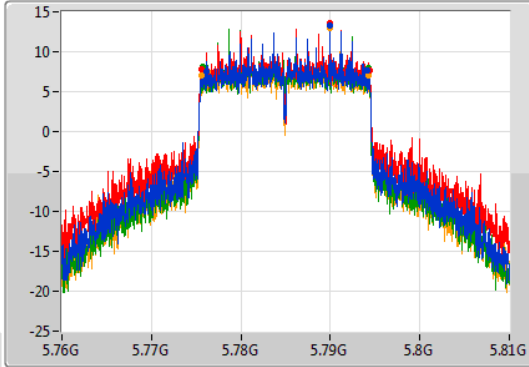
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

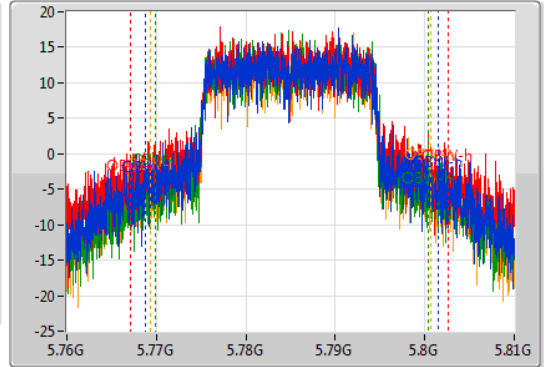
5785MHz

26/09/2019

CF
5.785GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
50MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18M	5.776125G	5.794125G	32.734M	5.768733G	5.801467G	500k	1
18.85M	5.77555G	5.7944G	35.582M	5.767084G	5.802666G	500k	2
18.575M	5.775675G	5.79425G	30.585M	5.769833G	5.800417G	500k	3
18.55M	5.77565G	5.7942G	31.359M	5.769358G	5.800717G	500k	4

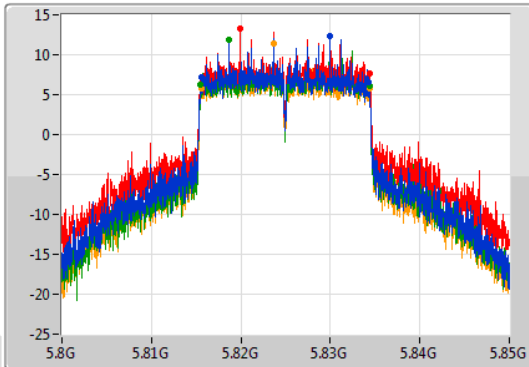
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

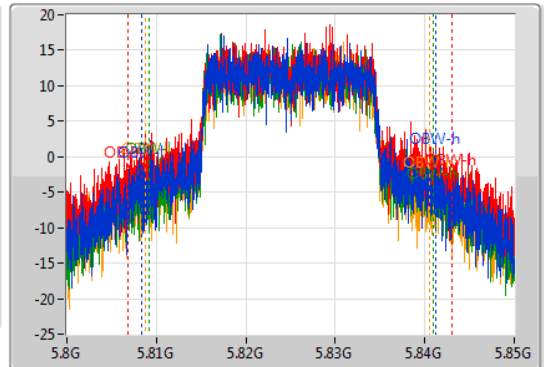
5825MHz

26/09/2019

CF
5.825GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
50MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.75M	5.815575G	5.834325G	32.784M	5.808383G	5.841167G	500k	1
18.8M	5.8156G	5.8344G	36.157M	5.806834G	5.842991G	500k	2
18.875M	5.8155G	5.834375G	31.809M	5.809183G	5.840992G	500k	3
18.8M	5.8156G	5.8344G	31.709M	5.808758G	5.840467G	500k	4

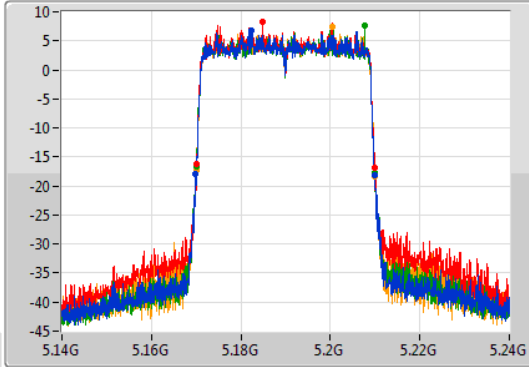
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

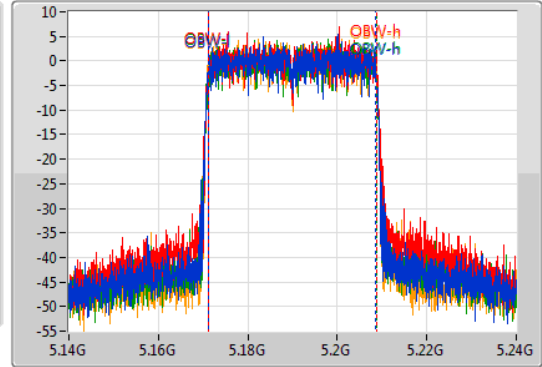
5190MHz

26/09/2019

CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.15M	5.1699G	5.21005G	37.431M	5.171159G	5.208591G	Inf	1
39.9M	5.17005G	5.20995G	37.481M	5.171209G	5.208691G	Inf	2
39.9M	5.17G	5.2099G	37.581M	5.171159G	5.208741G	Inf	3
40.05M	5.16995G	5.21G	37.581M	5.171109G	5.208691G	Inf	4

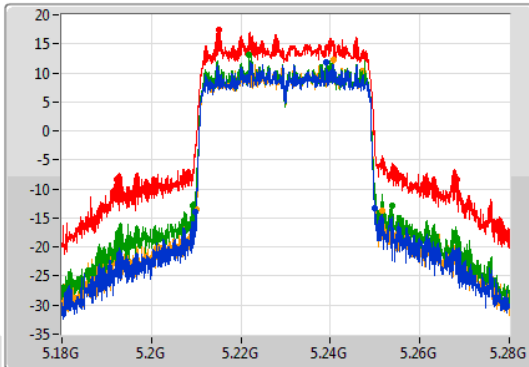
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

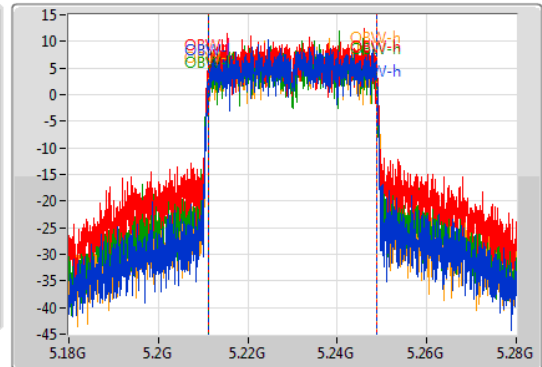
5230MHz

26/09/2019

CF
5.23GHz
Span
100MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

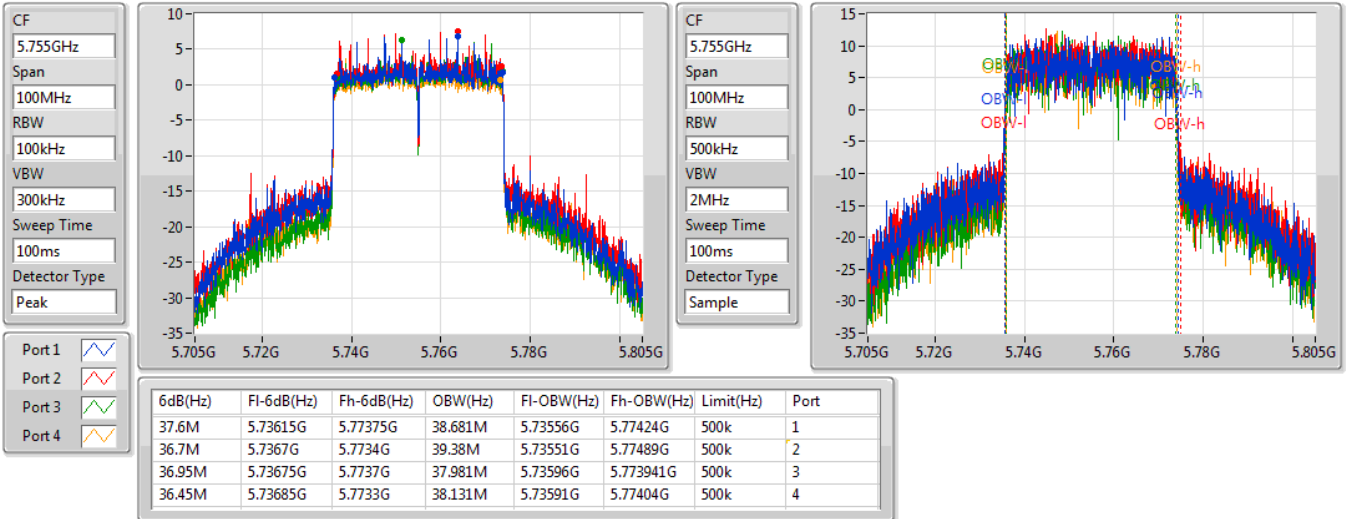
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.15M	5.20985G	5.25G	37.531M	5.211159G	5.248691G	Inf	1
76.25M	5.19215G	5.2684G	37.781M	5.211059G	5.248841G	Inf	2
44.5M	5.2092G	5.2537G	37.581M	5.211159G	5.248741G	Inf	3
41.6M	5.20995G	5.25155G	37.581M	5.211159G	5.248741G	Inf	4

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

26/09/2019

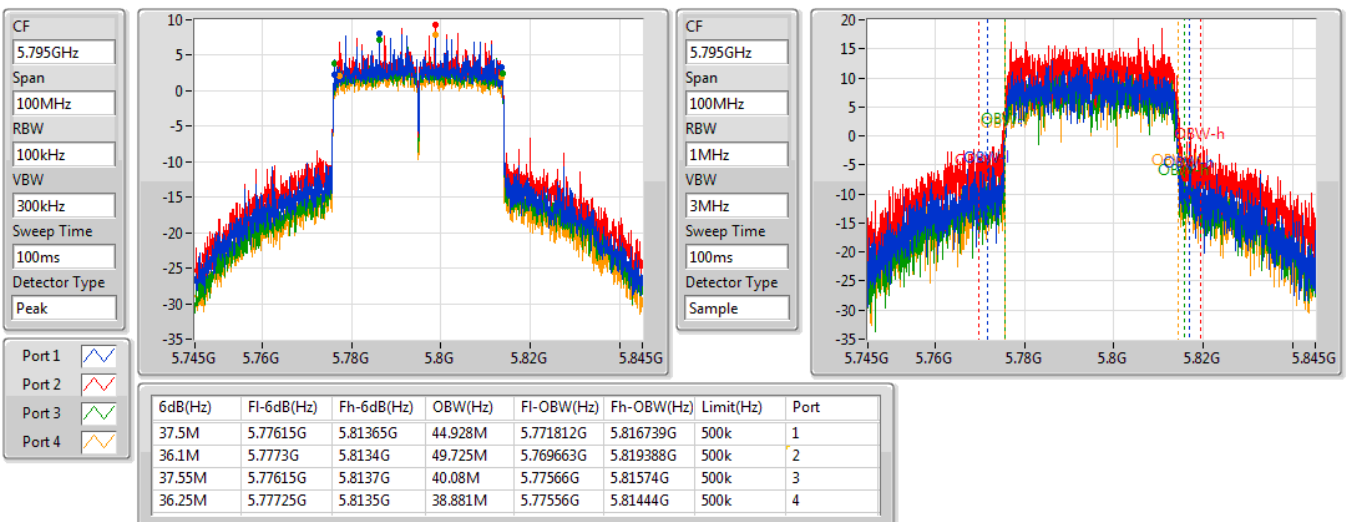


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

26/09/2019



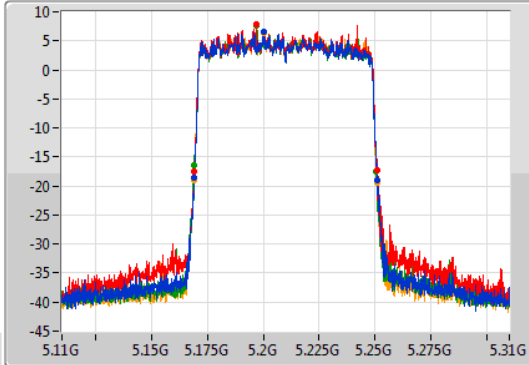
802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5210MHz

26/09/2019

CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.1M	5.1691G	5.2512G	77.161M	5.171319G	5.248481G	Inf	1
81.9M	5.1692G	5.2511G	77.261M	5.171319G	5.248581G	Inf	2
81.4M	5.1691G	5.2505G	77.161M	5.171319G	5.248481G	Inf	3
81.8M	5.1691G	5.2509G	77.161M	5.171319G	5.248481G	Inf	4

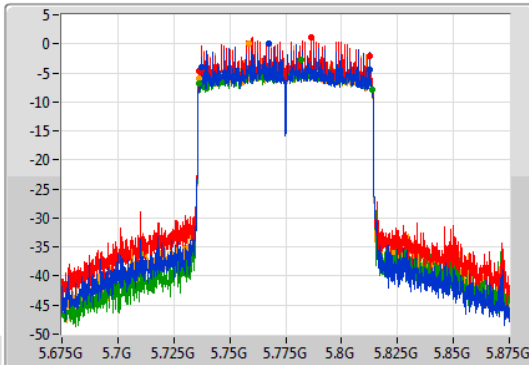
802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

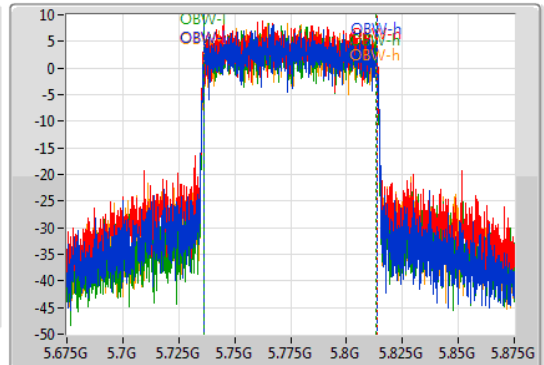
5775MHz

26/09/2019

CF
5.775GHz
Span
200MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.3M	5.7373G	5.8126G	77.061M	5.736419G	5.813481G	500k	1
76M	5.7365G	5.8125G	77.361M	5.736219G	5.813581G	500k	2
77.7M	5.7361G	5.8138G	76.962M	5.736319G	5.813281G	500k	3
76.3M	5.7362G	5.8125G	77.161M	5.736219G	5.813381G	500k	4



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	22.83M	17.841M	17M8D1D	21.42M	17.721M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	72.66M	36.402M	36M4D1D	39.72M	36.222M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	82.08M	75.802M	75M8D1D	81.36M	75.682M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.59M	19.04M	19M0D1D	21.66M	18.981M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	46.38M	37.661M	37M7D1D	39.9M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.08M	77.121M	77M1D1D	81.72M	77.001M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.58M	17.931M	17M9D1D	17.52M	17.811M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	36.36M	36.462M	36M5D1D	36.3M	36.042M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	75.84M	75.802M	75M8D1D	74.04M	75.682M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19.05M	19.1M	19M1D1D	18.63M	18.981M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.62M	37.721M	37M7D1D	37.08M	37.541M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	76.32M	77.241M	77M2D1D	75.6M	77.001M

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)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.75M	17.781M	22.11M	17.751M	21.51M	17.811M	21.63M	17.751M
5200MHz	Pass	Inf	21.84M	17.781M	22.77M	17.841M	21.45M	17.781M	21.6M	17.781M
5240MHz	Pass	Inf	21.9M	17.781M	22.83M	17.811M	21.42M	17.751M	21.63M	17.721M
5745MHz	Pass	500k	17.55M	17.871M	17.58M	17.901M	17.58M	17.811M	17.58M	17.841M
5785MHz	Pass	500k	17.55M	17.871M	17.52M	17.901M	17.58M	17.841M	17.58M	17.841M
5825MHz	Pass	500k	17.58M	17.931M	17.58M	17.901M	17.58M	17.841M	17.55M	17.871M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.26M	36.282M	39.96M	36.222M	39.96M	36.222M	39.84M	36.342M
5230MHz	Pass	Inf	41.7M	36.282M	72.66M	36.402M	45.54M	36.342M	39.72M	36.282M
5755MHz	Pass	500k	36.36M	36.402M	36.36M	36.402M	36.3M	36.042M	36.3M	36.282M
5795MHz	Pass	500k	36.3M	36.402M	36.3M	36.402M	36.36M	36.402M	36.36M	36.462M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.08M	75.802M	81.48M	75.802M	81.36M	75.682M	81.96M	75.682M
5775MHz	Pass	500k	74.04M	75.682M	75.72M	75.802M	75.72M	75.682M	75.84M	75.682M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.66M	19.01M	23.16M	19.01M	23.01M	18.981M	21.69M	19.01M
5200MHz	Pass	Inf	23.43M	19.01M	28.59M	19.01M	23.91M	18.981M	21.78M	18.981M
5240MHz	Pass	Inf	23.31M	19.04M	24.99M	19.01M	23.46M	19.01M	21.69M	19.01M
5745MHz	Pass	500k	18.96M	19.04M	18.9M	19.04M	18.69M	19.01M	19.02M	19.01M
5785MHz	Pass	500k	18.93M	19.07M	18.87M	19.07M	18.63M	19.04M	18.99M	18.981M
5825MHz	Pass	500k	18.96M	19.04M	18.69M	19.07M	18.9M	19.1M	19.05M	19.01M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.14M	37.481M	39.9M	37.541M	40.14M	37.601M	40.14M	37.481M
5230MHz	Pass	Inf	40.08M	37.601M	46.38M	37.661M	40.26M	37.601M	40.14M	37.541M
5755MHz	Pass	500k	37.5M	37.661M	37.08M	37.601M	37.62M	37.661M	37.56M	37.601M
5795MHz	Pass	500k	37.26M	37.721M	37.62M	37.721M	37.62M	37.601M	37.32M	37.541M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.08M	77.001M	81.84M	77.121M	81.72M	77.001M	82.08M	77.001M
5775MHz	Pass	500k	76.2M	77.001M	75.6M	77.241M	76.2M	77.241M	76.32M	77.001M

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

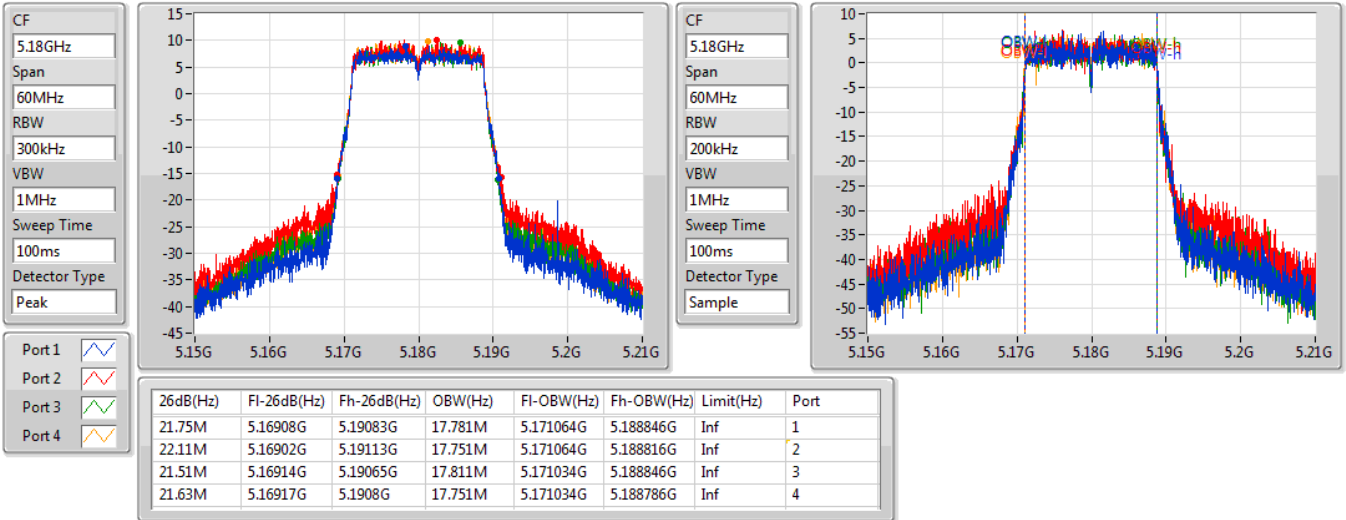
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

31/10/2019

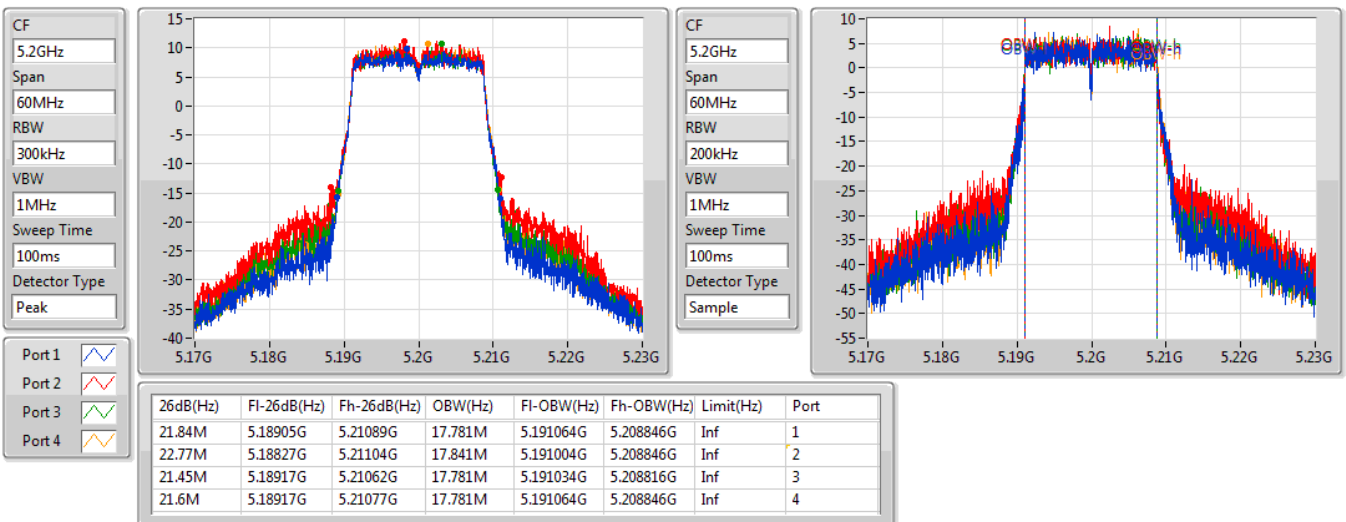


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

31/10/2019



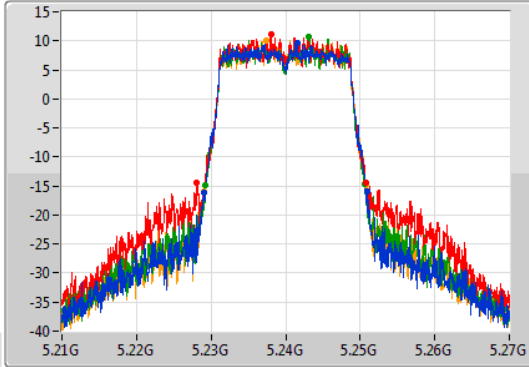
802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

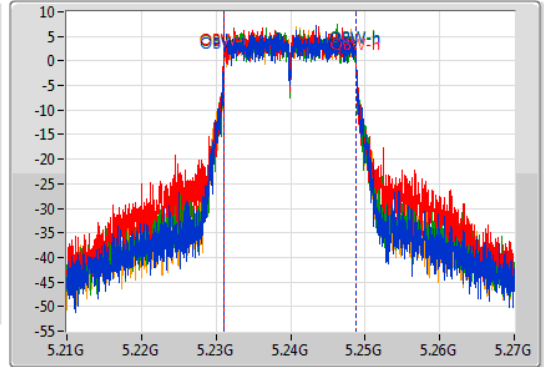
5240MHz

31/10/2019

CF
5.24GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.9M	5.22902G	5.25092G	17.781M	5.231034G	5.248816G	Inf	1
22.83M	5.228G	5.25083G	17.811M	5.231004G	5.248816G	Inf	2
21.42M	5.22917G	5.25059G	17.751M	5.231064G	5.248816G	Inf	3
21.63M	5.22911G	5.25074G	17.721M	5.231064G	5.248786G	Inf	4

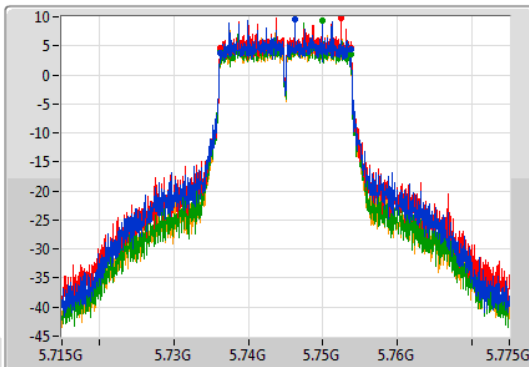
802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

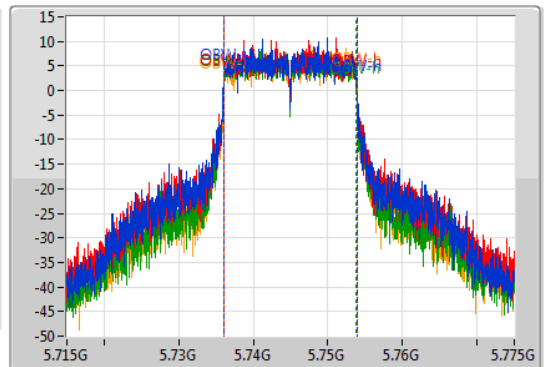
5745MHz

30/10/2019

CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

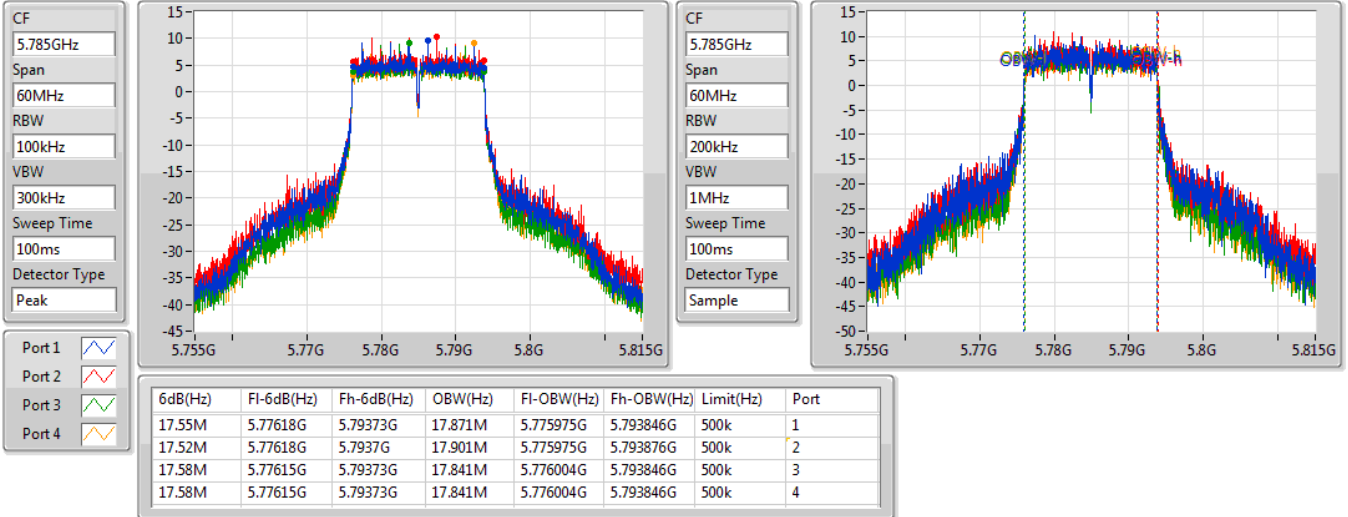
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.73618G	5.75373G	17.871M	5.736004G	5.753876G	500k	1
17.58M	5.73618G	5.75376G	17.901M	5.736004G	5.753906G	500k	2
17.58M	5.73618G	5.75376G	17.811M	5.736034G	5.753846G	500k	3
17.58M	5.73618G	5.75376G	17.841M	5.736034G	5.753876G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5785MHz

30/10/2019

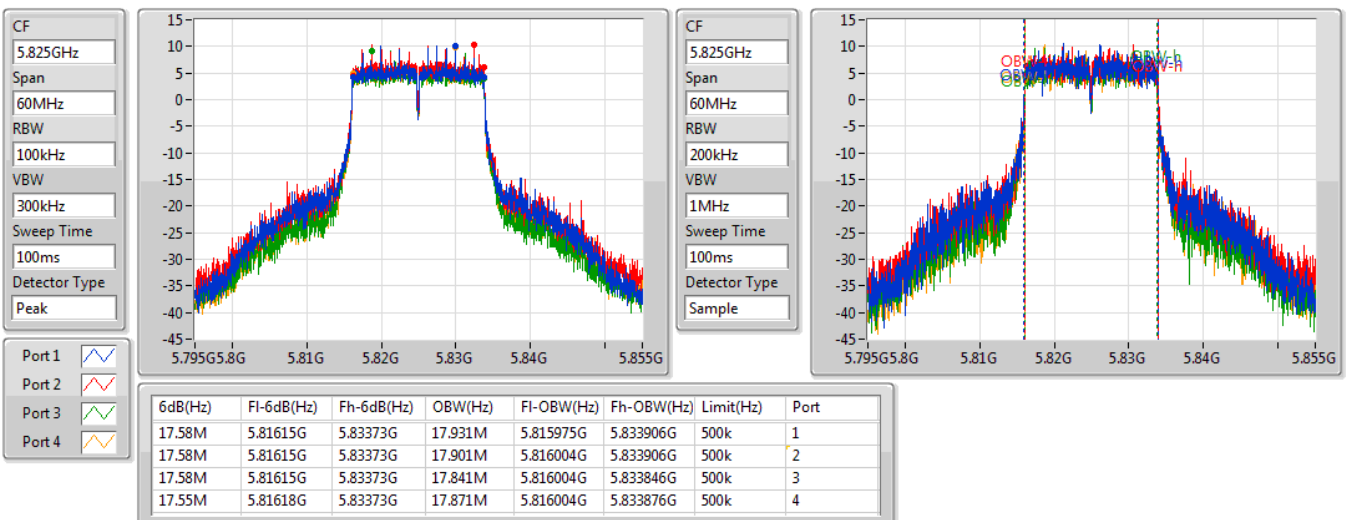


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

30/10/2019

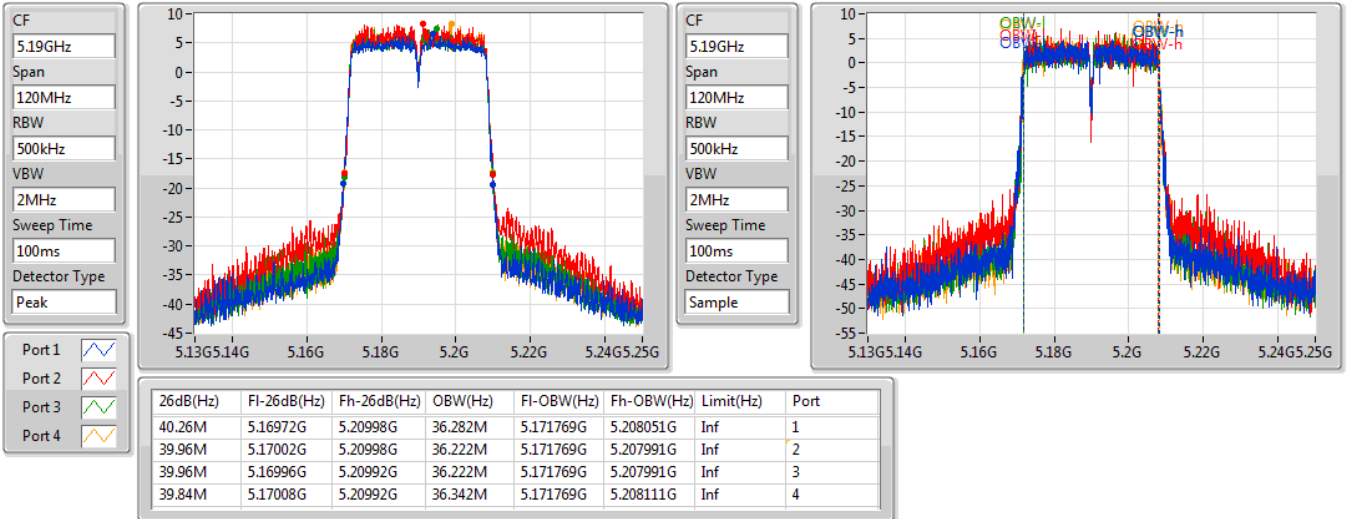


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5190MHz

31/10/2019

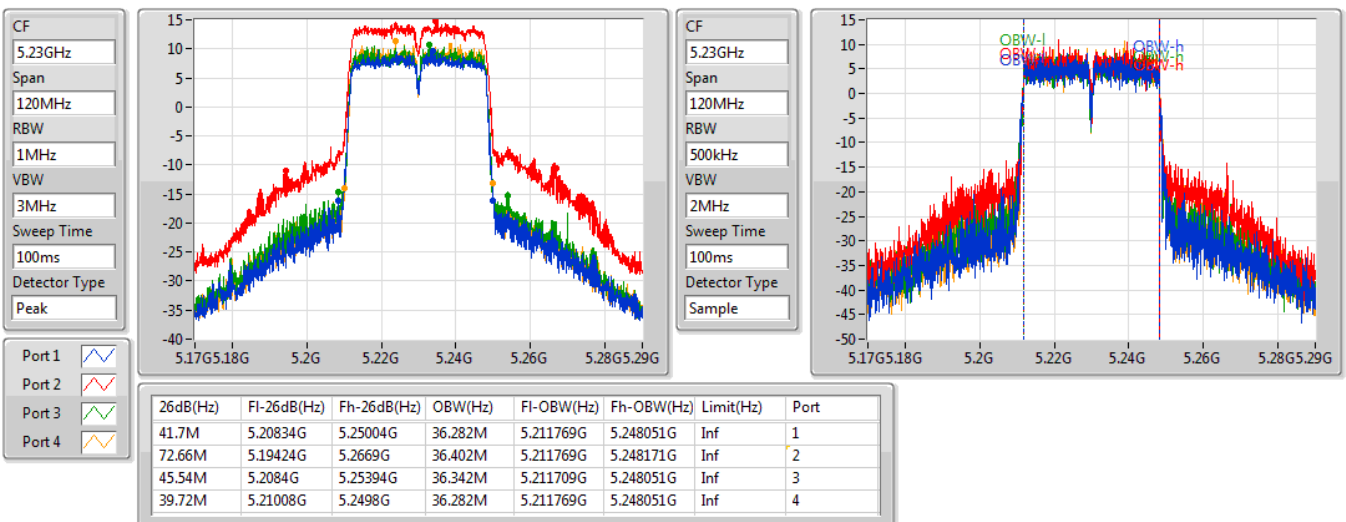


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5230MHz

31/10/2019



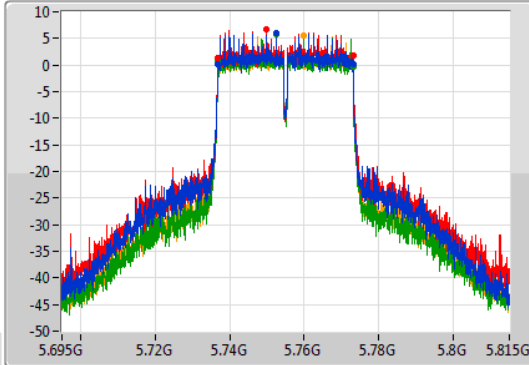
802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

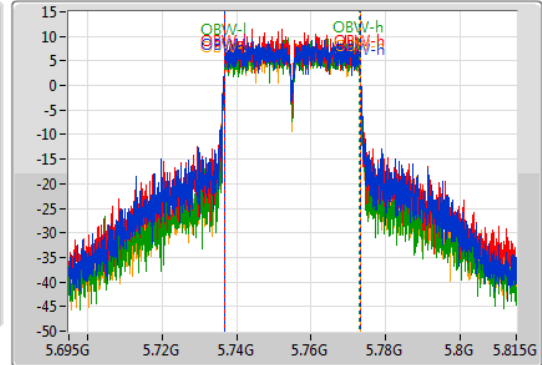
5755MHz

30/10/2019

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.36M	5.73676G	5.77312G	36.402M	5.736709G	5.773111G	500k	1
36.36M	5.73676G	5.77312G	36.402M	5.736709G	5.773111G	500k	2
36.3M	5.73682G	5.77312G	36.042M	5.736889G	5.772931G	500k	3
36.3M	5.73682G	5.77312G	36.282M	5.736769G	5.773051G	500k	4

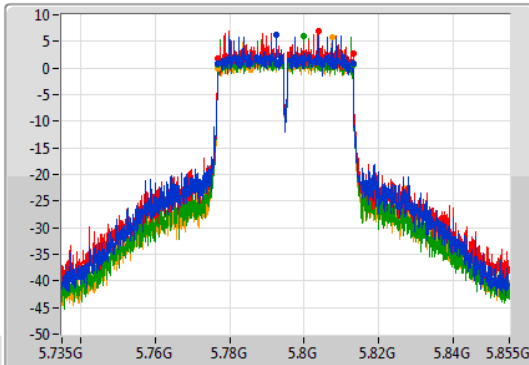
802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

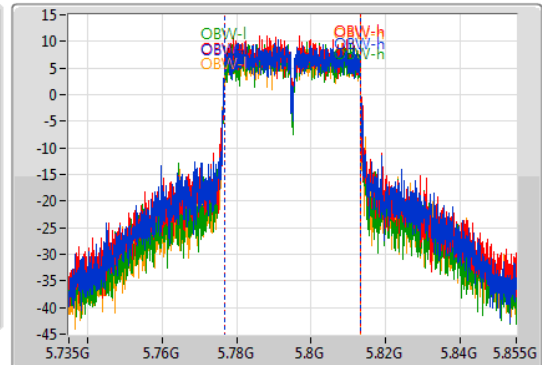
5795MHz

30/10/2019

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.77682G	5.81312G	36.402M	5.776709G	5.813111G	500k	1
36.3M	5.77682G	5.81312G	36.402M	5.776769G	5.813171G	500k	2
36.36M	5.77676G	5.81312G	36.402M	5.776709G	5.813111G	500k	3
36.36M	5.77676G	5.81312G	36.462M	5.776709G	5.813171G	500k	4

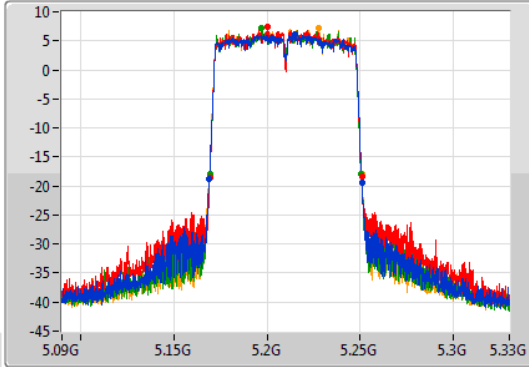
802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

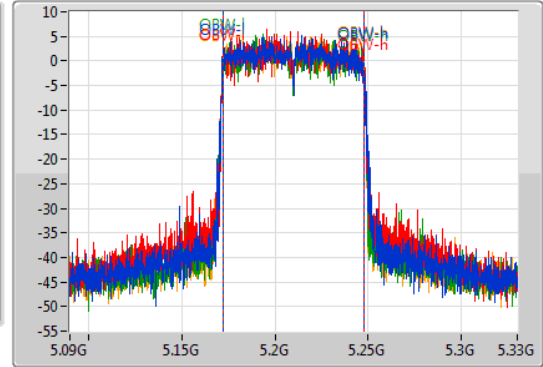
5210MHz

31/10/2019

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.08M	5.16908G	5.25116G	75.802M	5.171979G	5.247781G	Inf	1
81.48M	5.16932G	5.2508G	75.802M	5.171979G	5.247781G	Inf	2
81.36M	5.16932G	5.25068G	75.682M	5.171979G	5.247661G	Inf	3
81.96M	5.16884G	5.2508G	75.682M	5.171979G	5.247661G	Inf	4

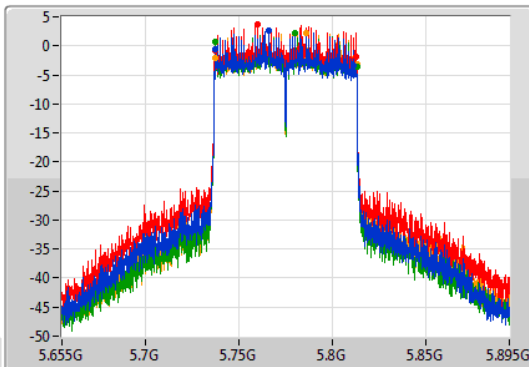
802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

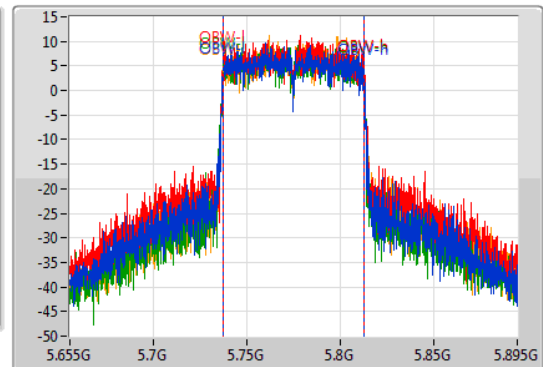
5775MHz

30/10/2019

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
74.04M	5.73744G	5.81148G	75.682M	5.737099G	5.812781G	500k	1
75.72M	5.73732G	5.81304G	75.802M	5.736979G	5.812781G	500k	2
75.72M	5.73744G	5.81316G	75.682M	5.737099G	5.812781G	500k	3
75.84M	5.73732G	5.81316G	75.682M	5.737099G	5.812781G	500k	4

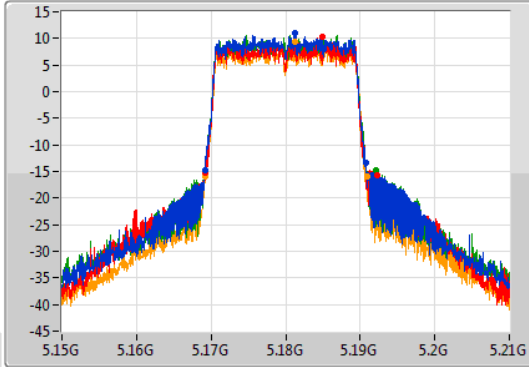
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

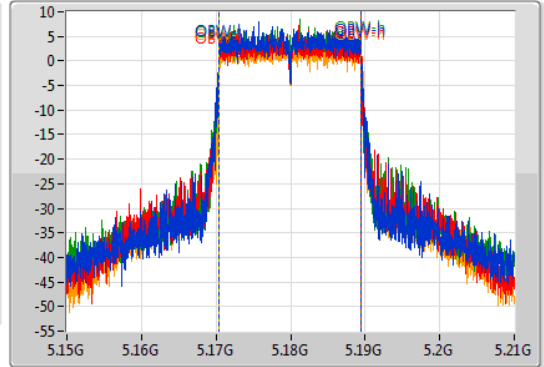
5180MHz

13/10/2019

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.66M	5.16917G	5.19083G	19.01M	5.170465G	5.189475G	Inf	1
23.16M	5.1692G	5.19236G	19.01M	5.170465G	5.189475G	Inf	2
23.01M	5.16917G	5.19218G	18.981M	5.170465G	5.18945G	Inf	3
21.69M	5.16923G	5.19092G	19.01M	5.170465G	5.189475G	Inf	4

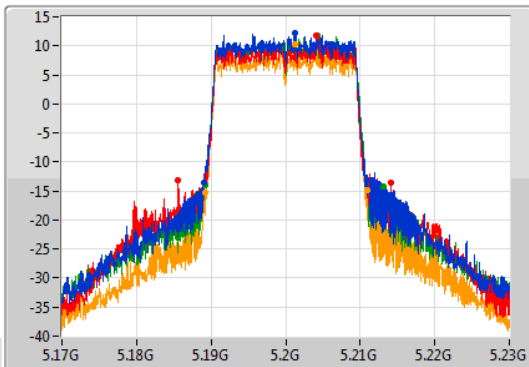
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

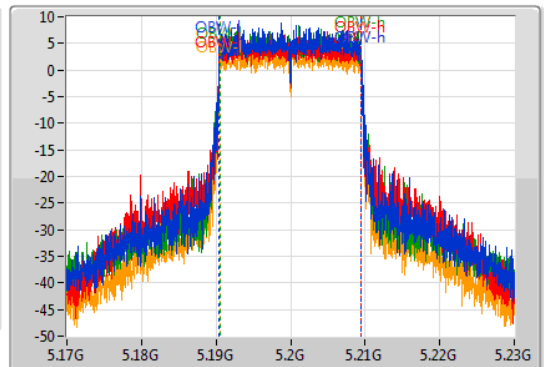
5200MHz

13/10/2019

CF
5.2GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

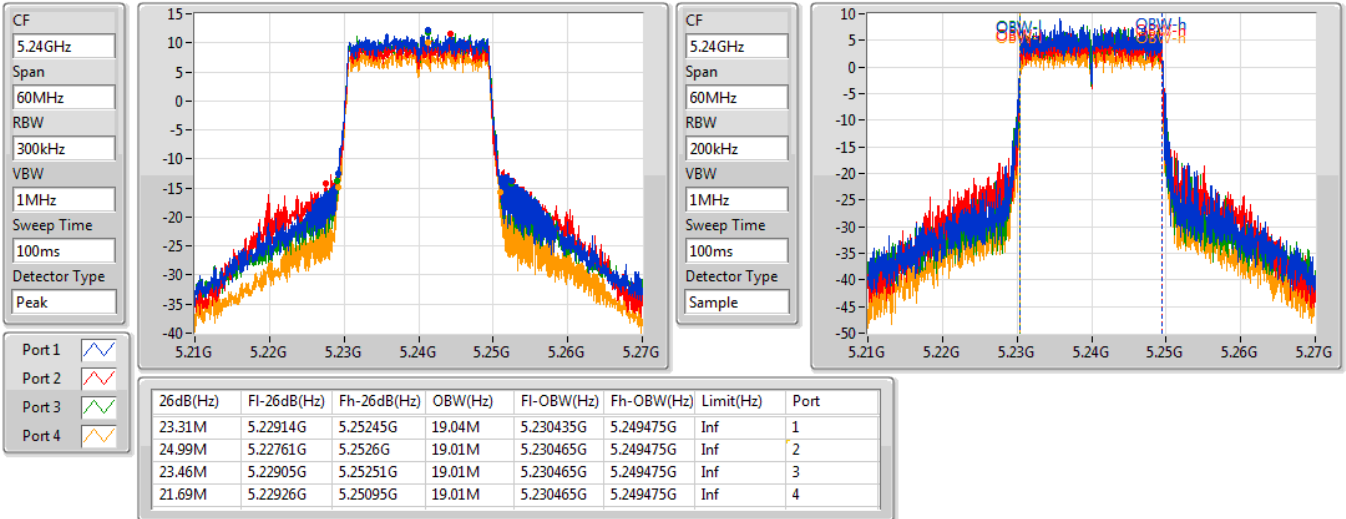
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.43M	5.18902G	5.21245G	19.01M	5.190465G	5.209475G	Inf	1
28.59M	5.1856G	5.21419G	19.01M	5.190465G	5.209475G	Inf	2
23.91M	5.18914G	5.21305G	18.981M	5.190495G	5.209475G	Inf	3
21.78M	5.18914G	5.21092G	18.981M	5.190495G	5.209475G	Inf	4

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5240MHz

13/10/2019

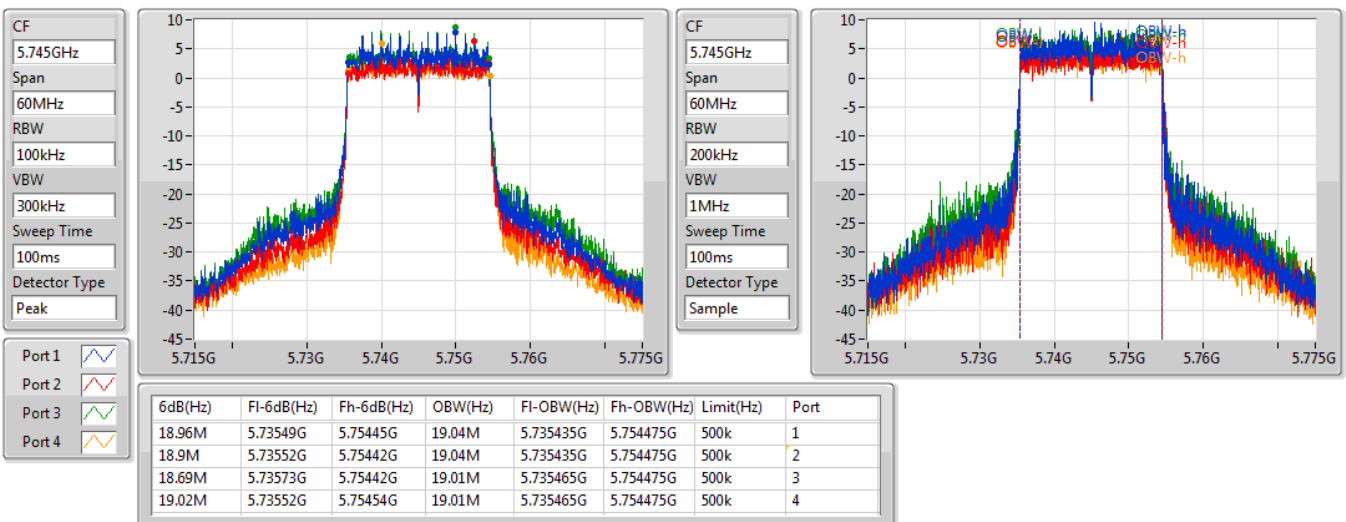


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5745MHz

13/10/2019



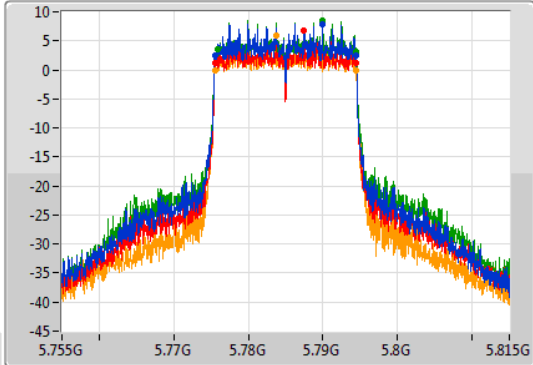
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

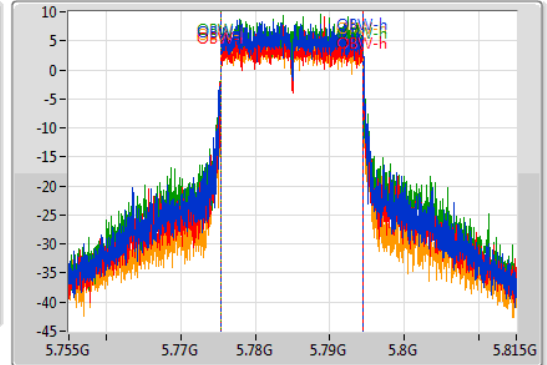
5785MHz

13/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.93M	5.77549G	5.79442G	19.07M	5.775405G	5.794475G	500k	1
18.87M	5.77558G	5.79445G	19.07M	5.775435G	5.794505G	500k	2
18.63M	5.77582G	5.79445G	19.04M	5.775435G	5.794475G	500k	3
18.99M	5.77549G	5.79448G	18.981M	5.775465G	5.794445G	500k	4

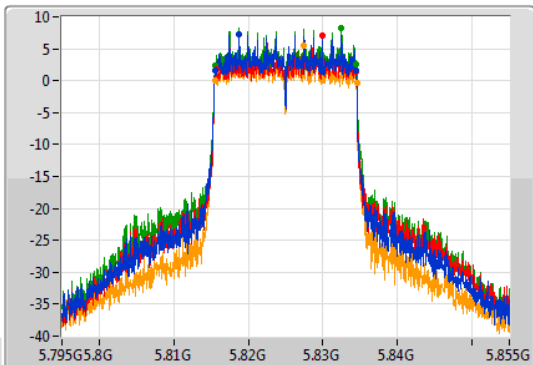
802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

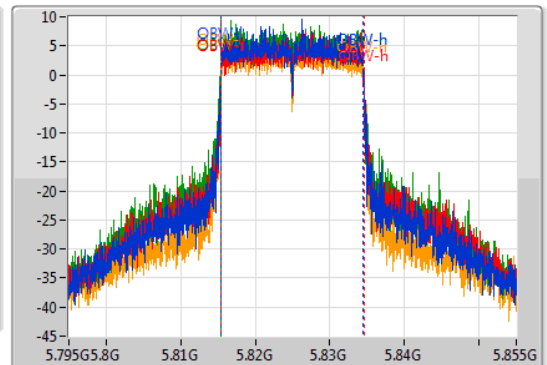
5825MHz

13/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.96M	5.81549G	5.83445G	19.04M	5.815435G	5.834475G	500k	1
18.69M	5.81576G	5.83445G	19.07M	5.815465G	5.834535G	500k	2
18.9M	5.81552G	5.83442G	19.1M	5.815405G	5.834505G	500k	3
19.05M	5.81549G	5.83454G	19.01M	5.815465G	5.834475G	500k	4

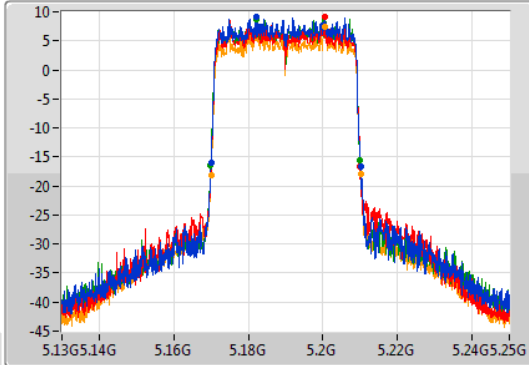
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

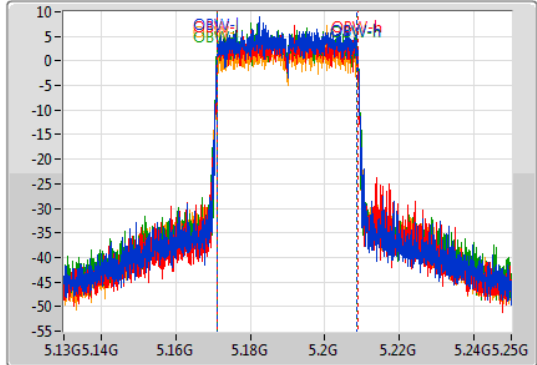
5190MHz

13/10/2019

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.14M	5.17002G	5.21016G	37.481M	5.171229G	5.208711G	Inf	1
39.9M	5.17008G	5.20998G	37.541M	5.171229G	5.208771G	Inf	2
40.14M	5.1699G	5.21004G	37.601M	5.171109G	5.208711G	Inf	3
40.14M	5.16996G	5.2101G	37.481M	5.171229G	5.208711G	Inf	4

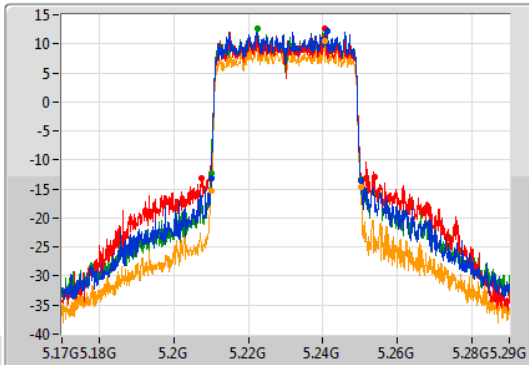
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

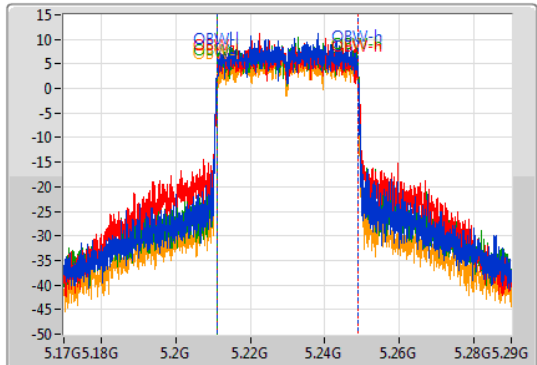
5230MHz

13/10/2019

CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.08M	5.21002G	5.2501G	37.601M	5.211169G	5.248771G	Inf	1
46.38M	5.20756G	5.25394G	37.661M	5.211169G	5.248831G	Inf	2
40.26M	5.20996G	5.25022G	37.601M	5.211169G	5.248771G	Inf	3
40.14M	5.20996G	5.2501G	37.541M	5.211229G	5.248771G	Inf	4

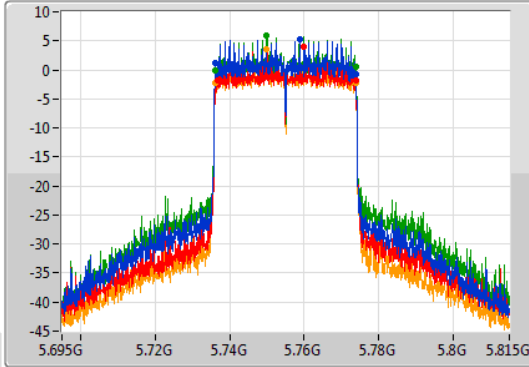
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

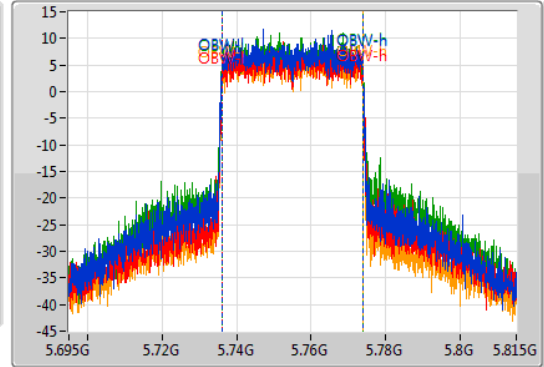
5755MHz

13/10/2019

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.5M	5.73622G	5.77372G	37.661M	5.736109G	5.773771G	500k	1
37.08M	5.7367G	5.77378G	37.601M	5.736169G	5.773771G	500k	2
37.62M	5.73616G	5.77378G	37.661M	5.736109G	5.773771G	500k	3
37.56M	5.73616G	5.77372G	37.601M	5.736169G	5.773771G	500k	4

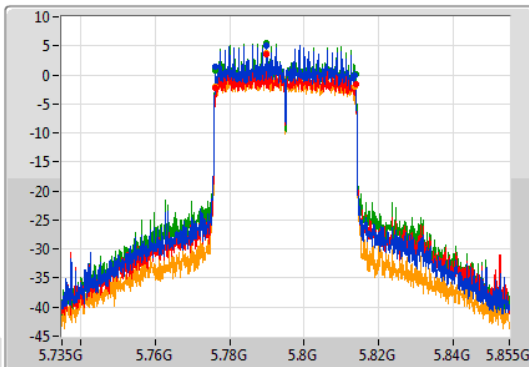
802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

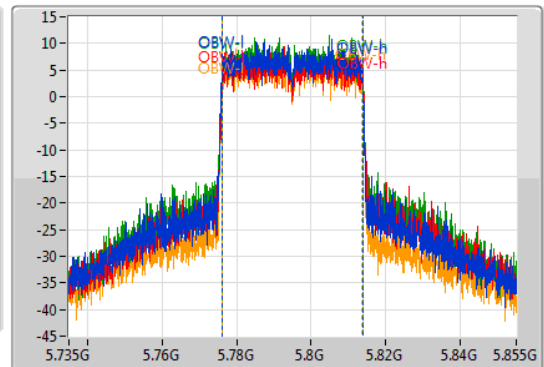
5795MHz

13/10/2019

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

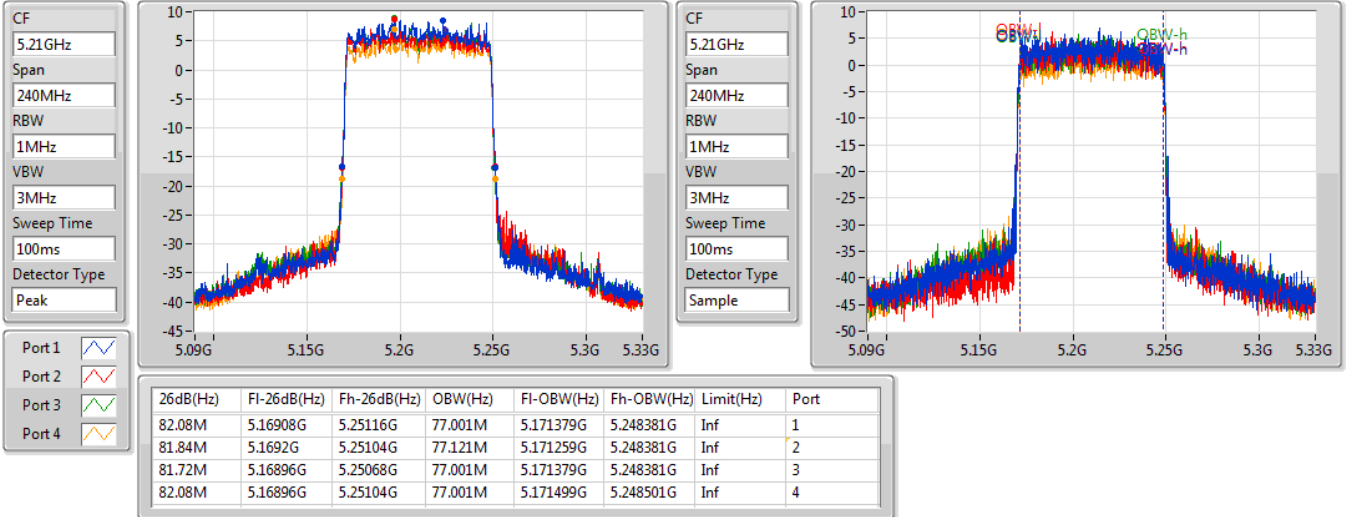
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.26M	5.77622G	5.81348G	37.721M	5.776049G	5.813771G	500k	1
37.62M	5.77616G	5.81378G	37.721M	5.776109G	5.813831G	500k	2
37.62M	5.77616G	5.81378G	37.601M	5.776169G	5.813771G	500k	3
37.32M	5.77616G	5.81348G	37.541M	5.776169G	5.813711G	500k	4

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5210MHz

13/10/2019

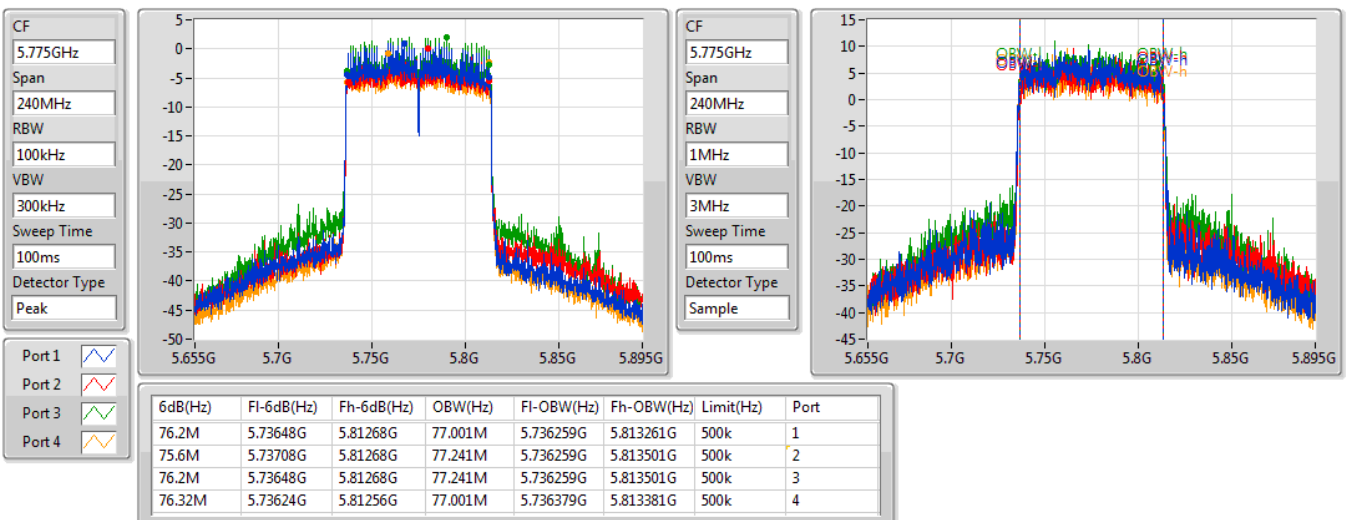


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz

13/10/2019





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	41.7M	19.28M	19M3D1D	21.48M	17.691M
802.11ac VHT40_Nss4,(MCS0)_4TX	74.1M	36.402M	36M4D1D	39.78M	36.162M
802.11ac VHT80_Nss4,(MCS0)_4TX	81.72M	75.922M	75M9D1D	81.12M	75.682M
802.11ax HEW20_Nss4,(MCS0)_4TX	42.93M	19.79M	19M8D1D	21.39M	18.981M
802.11ax HEW40_Nss4,(MCS0)_4TX	49.62M	37.781M	37M8D1D	39.84M	37.481M
802.11ax HEW80_Nss4,(MCS0)_4TX	81.72M	77.121M	77M1D1D	80.76M	77.001M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	17.58M	32.144M	32M1D1D	17.31M	26.147M
802.11ac VHT40_Nss4,(MCS0)_4TX	36.36M	52.654M	52M7D1D	35.76M	37.121M
802.11ac VHT80_Nss4,(MCS0)_4TX	75.48M	76.042M	76M0D1D	75.12M	75.682M
802.11ax HEW20_Nss4,(MCS0)_4TX	18.6M	33.853M	33M9D1D	17.67M	28.186M
802.11ax HEW40_Nss4,(MCS0)_4TX	37.68M	44.138M	44M1D1D	36.54M	37.841M
802.11ax HEW80_Nss4,(MCS0)_4TX	76.32M	77.361M	77M4D1D	75.24M	77.121M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.51M	17.751M	21.6M	17.751M	21.78M	17.721M	21.48M	17.691M
5200MHz	Pass	Inf	32.07M	17.781M	37.92M	18.201M	37.92M	17.841M	34.44M	17.811M
5240MHz	Pass	Inf	32.46M	17.781M	41.7M	19.28M	34.05M	17.871M	31.62M	17.781M
5745MHz	Pass	500k	17.49M	29.595M	17.58M	32.144M	17.52M	27.376M	17.52M	27.196M
5785MHz	Pass	500k	17.31M	29.655M	17.49M	31.634M	17.52M	26.837M	17.49M	27.796M
5825MHz	Pass	500k	17.55M	29.265M	17.49M	30.375M	17.55M	26.147M	17.52M	27.076M
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.14M	36.282M	39.78M	36.282M	39.9M	36.162M	40.02M	36.222M
5230MHz	Pass	Inf	40.2M	36.342M	74.1M	36.402M	44.58M	36.282M	40.2M	36.222M
5755MHz	Pass	500k	35.76M	41.199M	35.88M	42.639M	36.36M	37.121M	36.06M	37.181M
5795MHz	Pass	500k	35.76M	51.934M	35.94M	52.654M	36.36M	42.279M	35.88M	46.117M
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.72M	75.922M	81.36M	75.802M	81.12M	75.922M	81.72M	75.682M
5775MHz	Pass	500k	75.12M	75.802M	75.48M	75.922M	75.24M	75.682M	75.36M	76.042M
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.39M	18.981M	21.87M	18.981M	21.48M	19.04M	21.72M	18.981M
5200MHz	Pass	Inf	24.93M	19.04M	37.08M	19.22M	37.89M	19.13M	30.78M	19.07M
5240MHz	Pass	Inf	28.26M	19.04M	42.93M	19.79M	40.44M	19.19M	29.04M	19.13M
5745MHz	Pass	500k	18.15M	31.604M	17.88M	33.853M	17.67M	29.325M	18.06M	29.295M
5785MHz	Pass	500k	18.15M	30.315M	17.88M	32.804M	18.6M	28.726M	18.15M	28.576M
5825MHz	Pass	500k	18.12M	29.685M	17.88M	32.504M	17.67M	28.366M	18.21M	28.186M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.661M	40.2M	37.541M	40.08M	37.601M	40.26M	37.661M
5230MHz	Pass	Inf	40.08M	37.601M	49.62M	37.661M	39.84M	37.481M	40.14M	37.781M
5755MHz	Pass	500k	37.26M	38.021M	37.14M	38.261M	37.68M	37.841M	36.54M	37.961M
5795MHz	Pass	500k	37.08M	38.981M	37.14M	44.138M	37.62M	38.441M	37.38M	38.441M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	77.121M	80.76M	77.121M	81.48M	77.001M	81.72M	77.121M
5775MHz	Pass	500k	76.2M	77.121M	75.48M	77.361M	75.24M	77.241M	76.32M	77.121M

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

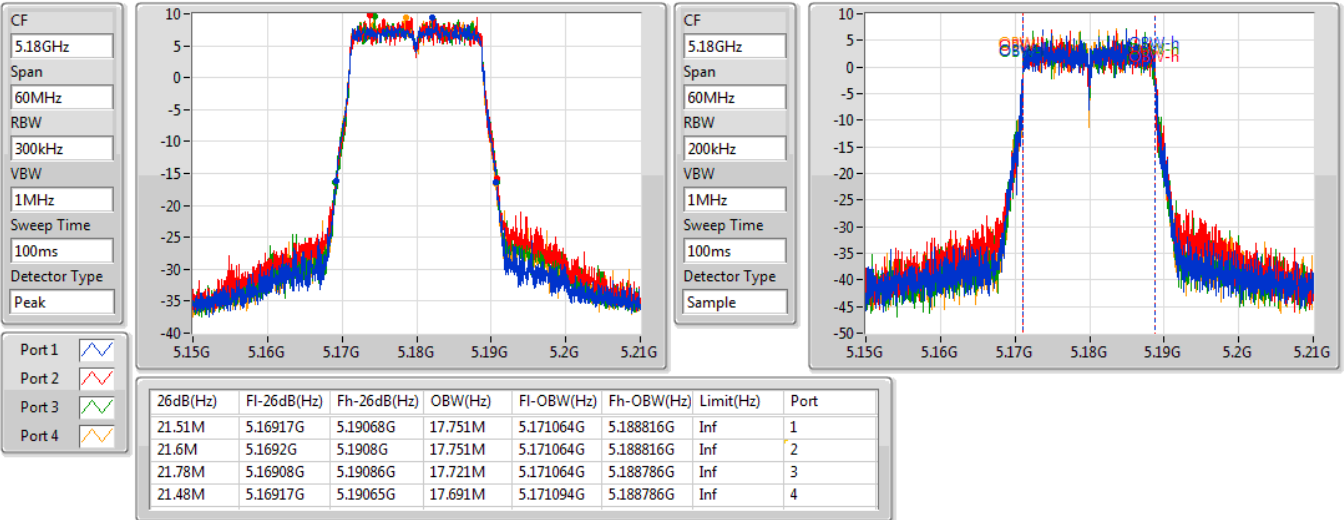
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20_Nss4,(MCS0)_4TX

EBW

5180MHz

31/10/2019

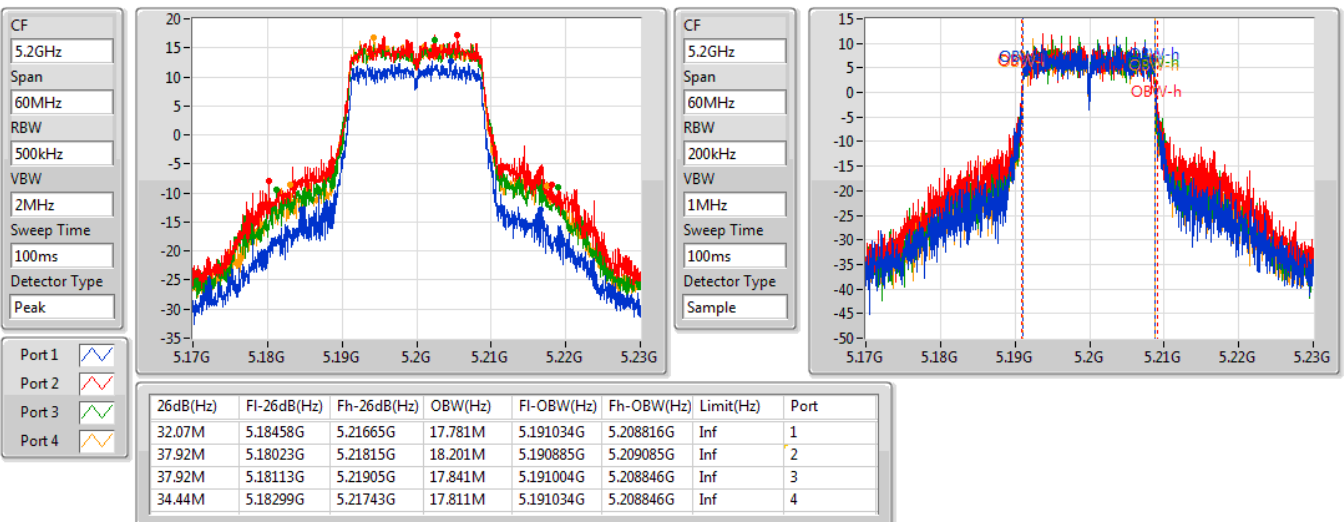


802.11ac VHT20_Nss4,(MCS0)_4TX

EBW

5200MHz

31/10/2019



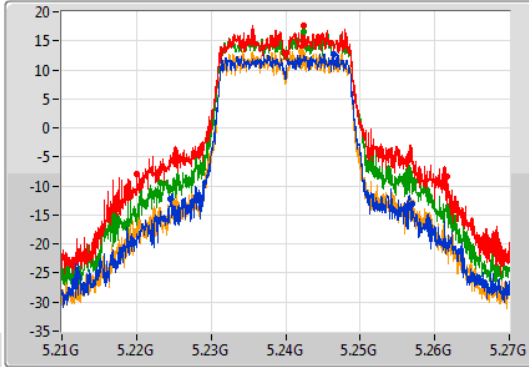
802.11ac VHT20_Nss4,(MCS0)_4TX

EBW

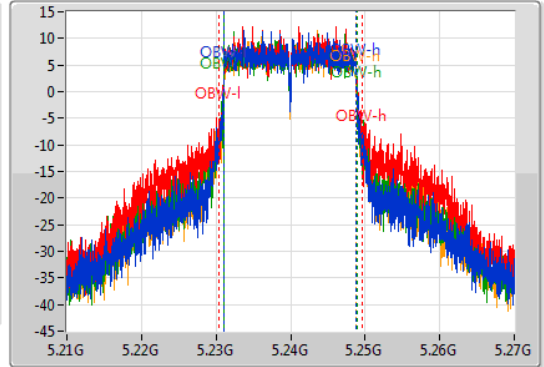
5240MHz

31/10/2019

CF: 5.24GHz
 Span: 60MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.46M	5.22446G	5.25692G	17.781M	5.231064G	5.248846G	Inf	1
41.7M	5.22002G	5.26172G	19.28M	5.230405G	5.249685G	Inf	2
34.05M	5.22317G	5.25722G	17.871M	5.231004G	5.248876G	Inf	3
31.62M	5.22527G	5.25689G	17.781M	5.231034G	5.248816G	Inf	4

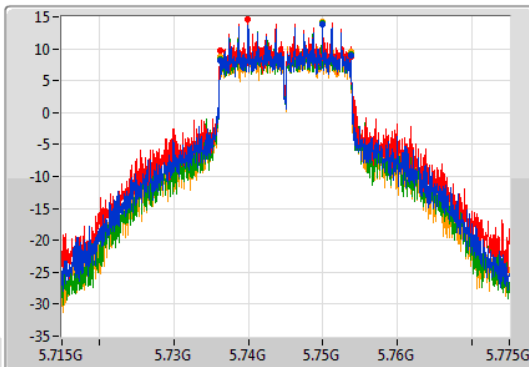
802.11ac VHT20_Nss4,(MCS0)_4TX

EBW

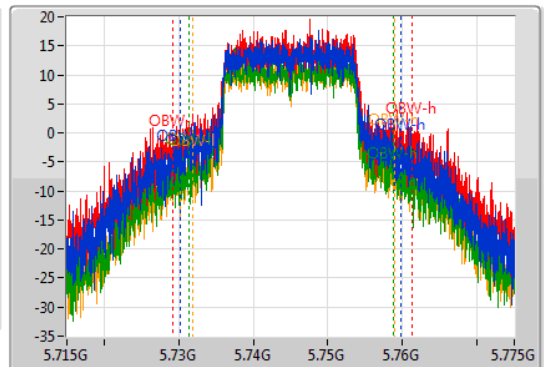
5745MHz

30/10/2019

CF: 5.745GHz
 Span: 60MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.745GHz
 Span: 60MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1: [Waveform icon]
 Port 2: [Waveform icon]
 Port 3: [Waveform icon]
 Port 4: [Waveform icon]

6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.49M	5.73621G	5.7537G	29.595M	5.730217G	5.759813G	500k	1
17.58M	5.73618G	5.75376G	32.144M	5.729138G	5.761282G	500k	2
17.52M	5.73618G	5.7537G	27.376M	5.731447G	5.758823G	500k	3
17.52M	5.73621G	5.75373G	27.196M	5.731807G	5.759003G	500k	4

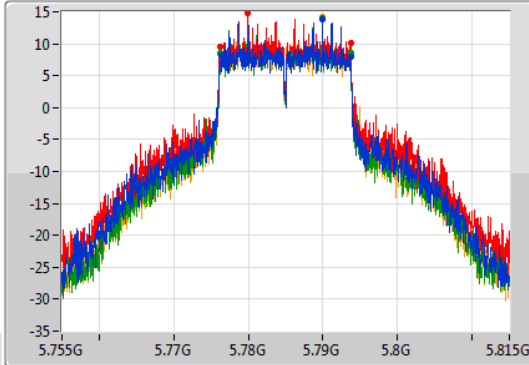
802.11ac VHT20_Nss4,(MCS0)_4TX

EBW

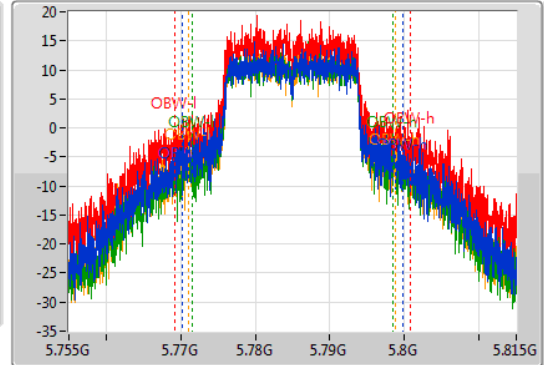
5785MHz

30/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.31M	5.77642G	5.79373G	29.655M	5.770157G	5.799813G	500k	1
17.49M	5.77621G	5.7937G	31.634M	5.769228G	5.800862G	500k	2
17.52M	5.77618G	5.7937G	26.837M	5.771627G	5.798463G	500k	3
17.49M	5.77621G	5.7937G	27.796M	5.771057G	5.798853G	500k	4

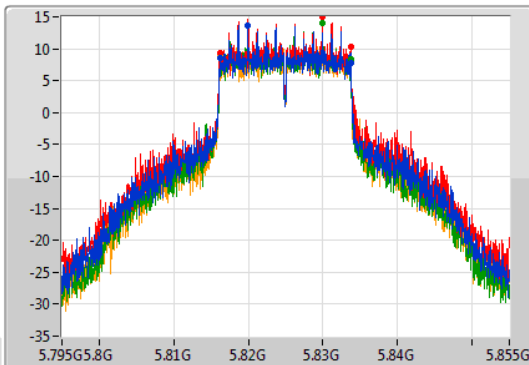
802.11ac VHT20_Nss4,(MCS0)_4TX

EBW

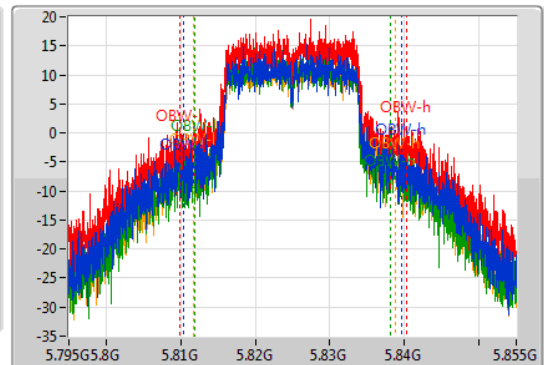
5825MHz

30/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.81618G	5.83373G	29.265M	5.810307G	5.839573G	500k	1
17.49M	5.81621G	5.8337G	30.375M	5.809888G	5.840262G	500k	2
17.55M	5.81618G	5.83373G	26.147M	5.811927G	5.838073G	500k	3
17.52M	5.81618G	5.8337G	27.076M	5.811717G	5.838793G	500k	4

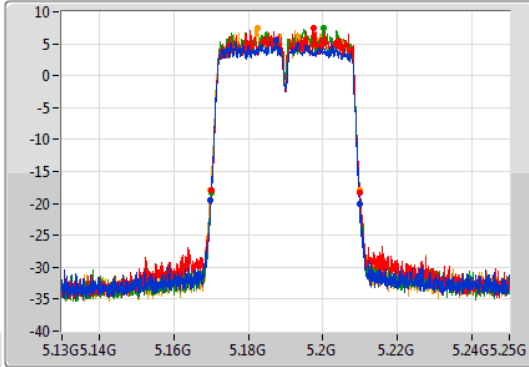
802.11ac VHT40_Nss4,(MCS0)_4TX

EBW

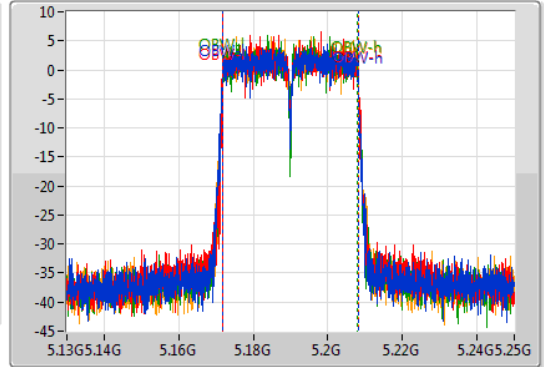
5190MHz

31/10/2019

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.14M	5.16984G	5.20998G	36.282M	5.171769G	5.208051G	Inf	1
39.78M	5.1702G	5.20998G	36.282M	5.171769G	5.208051G	Inf	2
39.9M	5.17002G	5.20992G	36.162M	5.171829G	5.207991G	Inf	3
40.02M	5.16984G	5.20986G	36.222M	5.171829G	5.208051G	Inf	4

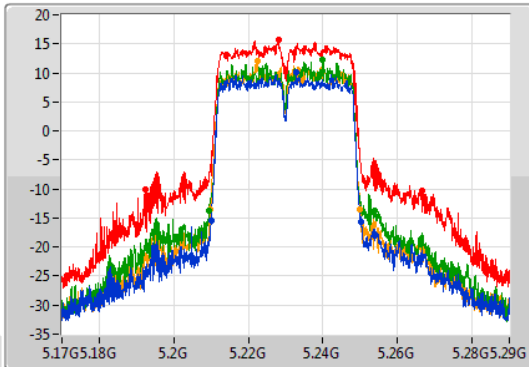
802.11ac VHT40_Nss4,(MCS0)_4TX

EBW

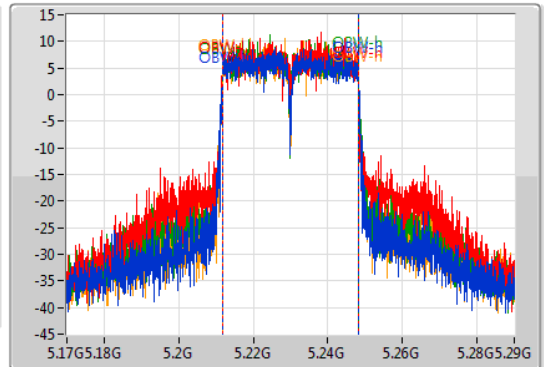
5230MHz

31/10/2019

CF
5.23GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.2M	5.20996G	5.25016G	36.342M	5.211769G	5.248111G	Inf	1
74.1M	5.19238G	5.26648G	36.402M	5.211709G	5.248111G	Inf	2
44.58M	5.20942G	5.254G	36.282M	5.211769G	5.248051G	Inf	3
40.2M	5.20984G	5.25004G	36.222M	5.211829G	5.248051G	Inf	4

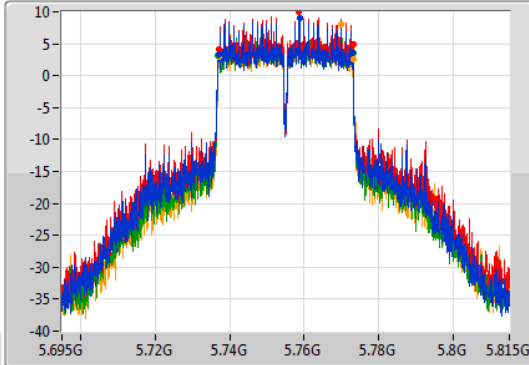
802.11ac VHT40_Nss4,(MCS0)_4TX

EBW

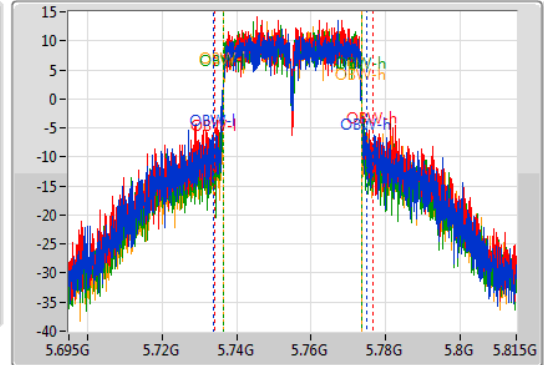
5755MHz

30/10/2019

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.76M	5.73706G	5.77282G	41.199M	5.733831G	5.77503G	500k	1
35.88M	5.73718G	5.77306G	42.639M	5.73407G	5.776709G	500k	2
36.36M	5.73676G	5.77312G	37.121M	5.736469G	5.773591G	500k	3
36.06M	5.737G	5.77306G	37.181M	5.736469G	5.773651G	500k	4

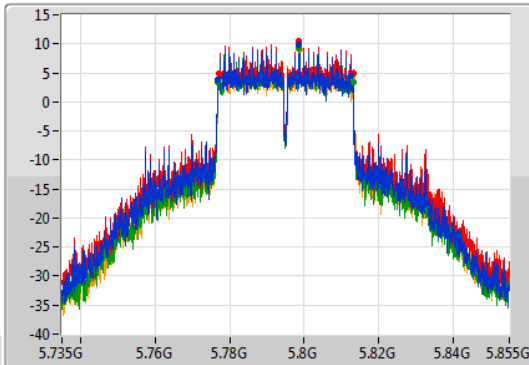
802.11ac VHT40_Nss4,(MCS0)_4TX

EBW

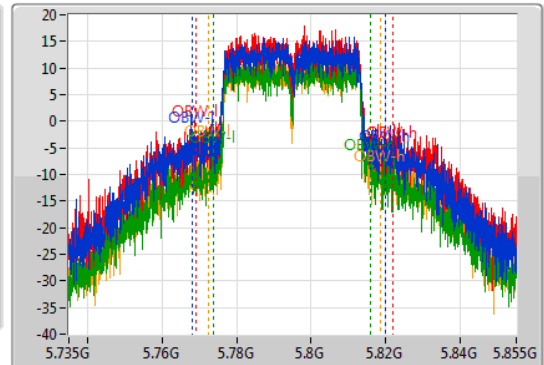
5795MHz

30/10/2019

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.76M	5.77676G	5.81252G	51.934M	5.767954G	5.819888G	500k	1
35.94M	5.77718G	5.81312G	52.654M	5.769213G	5.821867G	500k	2
36.36M	5.77676G	5.81312G	42.279M	5.773651G	5.81593G	500k	3
35.88M	5.777G	5.81288G	46.117M	5.772511G	5.818628G	500k	4

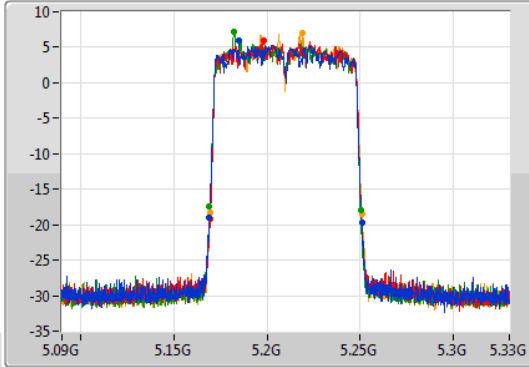
802.11ac VHT80_Nss4,(MCS0)_4TX

EBW

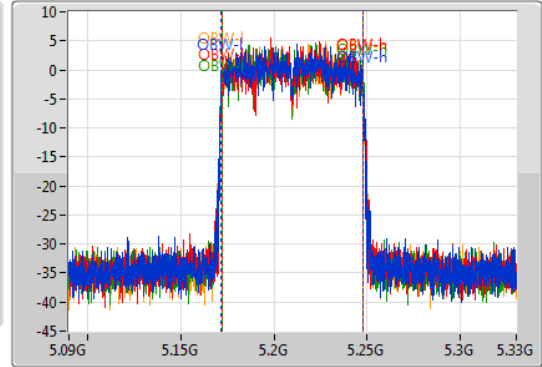
5210MHz

31/10/2019

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.72M	5.16908G	5.2508G	75.922M	5.171859G	5.247781G	Inf	1
81.36M	5.16944G	5.2508G	75.802M	5.171979G	5.247781G	Inf	2
81.12M	5.16908G	5.2502G	75.922M	5.171979G	5.247901G	Inf	3
81.72M	5.16944G	5.25116G	75.682M	5.172099G	5.247781G	Inf	4

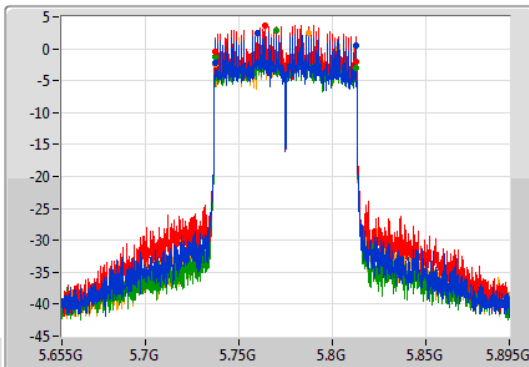
802.11ac VHT80_Nss4,(MCS0)_4TX

EBW

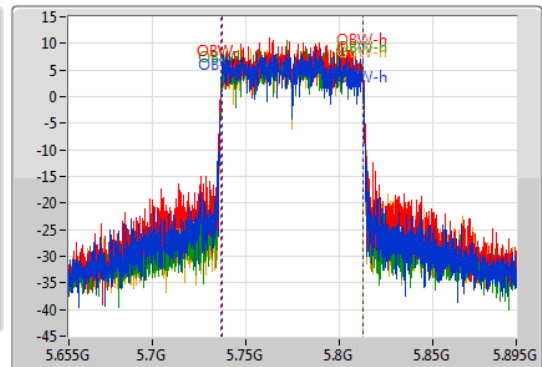
5775MHz

30/10/2019

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.12M	5.73732G	5.81244G	75.802M	5.736979G	5.812781G	500k	1
75.48M	5.73732G	5.8128G	75.922M	5.736859G	5.812781G	500k	2
75.24M	5.73732G	5.81256G	75.682M	5.737099G	5.812781G	500k	3
75.36M	5.73732G	5.81268G	76.042M	5.736859G	5.812901G	500k	4

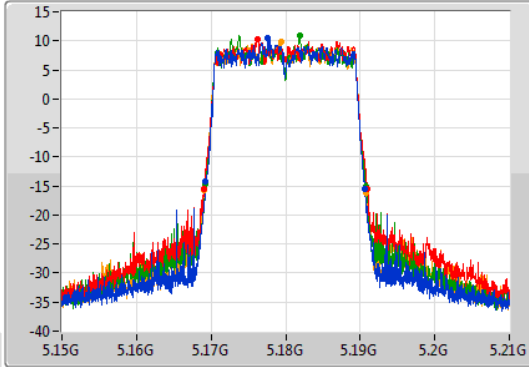
802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

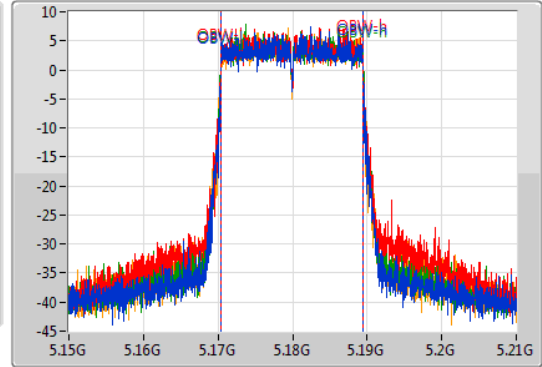
5180MHz

05/10/2019

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.39M	5.1692G	5.19059G	18.981M	5.170435G	5.189415G	Inf	1
21.87M	5.16908G	5.19095G	18.981M	5.170435G	5.189415G	Inf	2
21.48M	5.16929G	5.19077G	19.04M	5.170405G	5.189445G	Inf	3
21.72M	5.16908G	5.1908G	18.981M	5.170435G	5.189415G	Inf	4

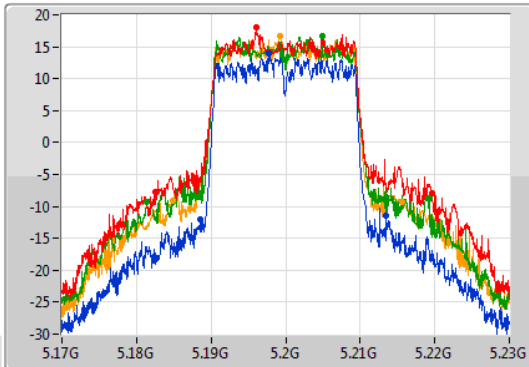
802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

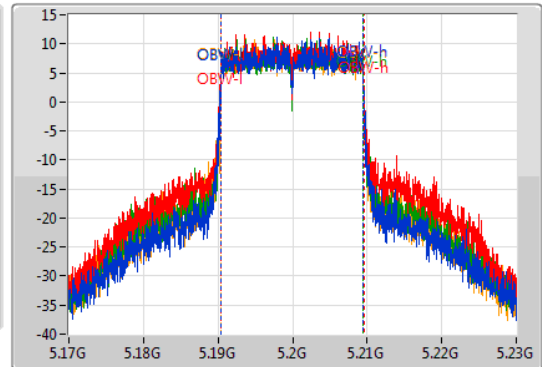
5200MHz

05/10/2019

CF
5.2GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.93M	5.18851G	5.21344G	19.04M	5.190405G	5.209445G	Inf	1
37.08M	5.18248G	5.21956G	19.22M	5.190315G	5.209535G	Inf	2
37.89M	5.1814G	5.21929G	19.13M	5.190345G	5.209475G	Inf	3
30.78M	5.18488G	5.21566G	19.07M	5.190375G	5.209445G	Inf	4

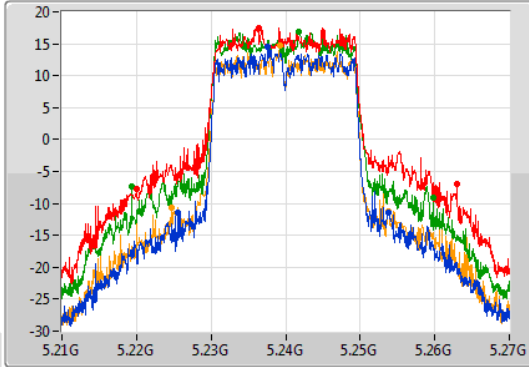
802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

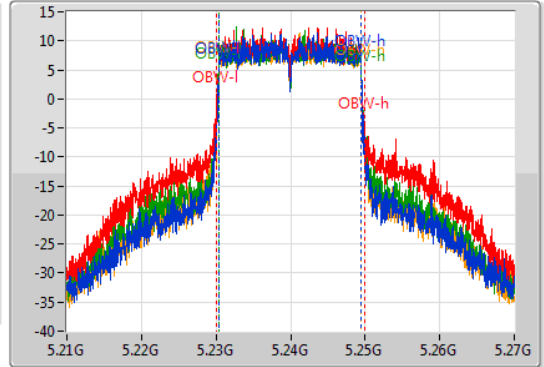
5240MHz

05/10/2019

CF
5.24GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.26M	5.2256G	5.25386G	19.04M	5.230405G	5.249445G	Inf	1
42.93M	5.22008G	5.26301G	19.79M	5.230075G	5.249865G	Inf	2
40.44M	5.21936G	5.2598G	19.19M	5.230315G	5.249505G	Inf	3
29.04M	5.22473G	5.25377G	19.13M	5.230345G	5.249475G	Inf	4

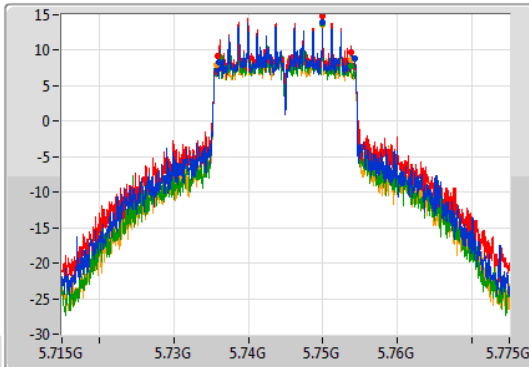
802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

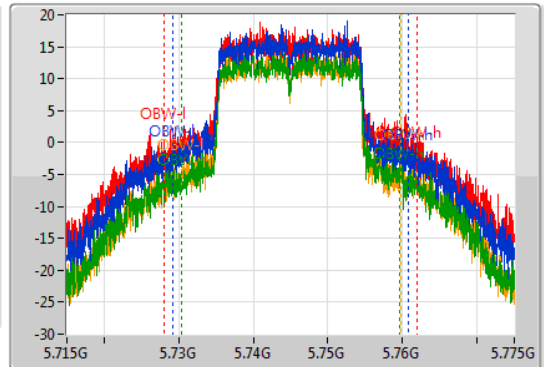
5745MHz

05/10/2019

CF
5.745GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.15M	5.73612G	5.75427G	31.604M	5.729198G	5.760802G	500k	1
17.88M	5.73594G	5.75382G	33.853M	5.728118G	5.761972G	500k	2
17.67M	5.73615G	5.75382G	29.325M	5.730367G	5.759693G	500k	3
18.06M	5.73567G	5.75373G	29.295M	5.730427G	5.759723G	500k	4

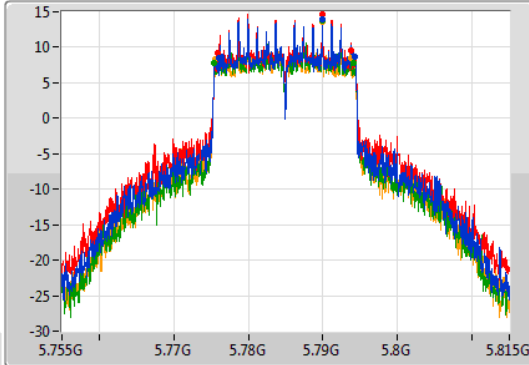
802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

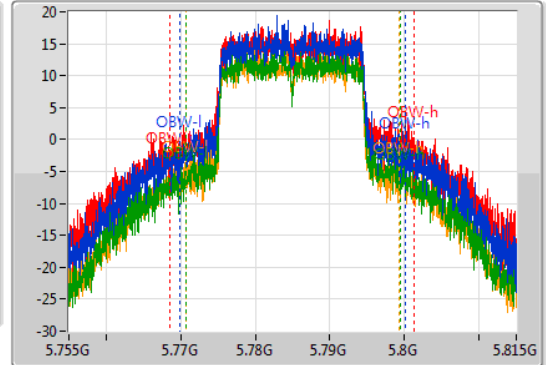
5785MHz

05/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.15M	5.77612G	5.79427G	30.315M	5.769858G	5.800172G	500k	1
17.88M	5.77594G	5.79382G	32.804M	5.768538G	5.801342G	500k	2
18.6M	5.77546G	5.79406G	28.726M	5.770667G	5.799393G	500k	3
18.15M	5.77558G	5.79373G	28.576M	5.770667G	5.799243G	500k	4

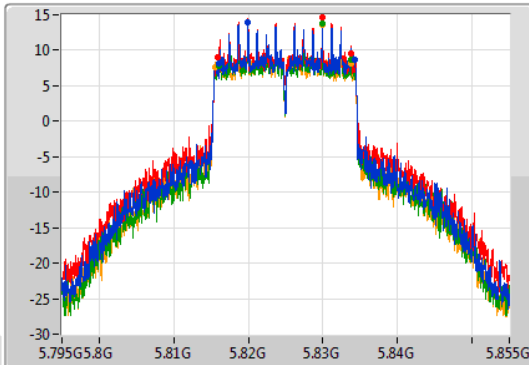
802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

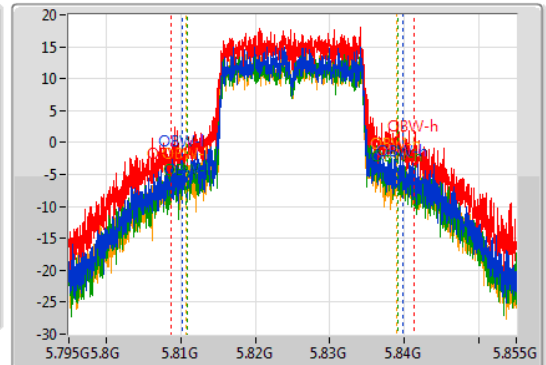
5825MHz

05/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.12M	5.81612G	5.83424G	29.685M	5.810127G	5.839813G	500k	1
17.88M	5.81594G	5.83382G	32.504M	5.808718G	5.841222G	500k	2
17.67M	5.81612G	5.83379G	28.366M	5.810817G	5.839183G	500k	3
18.21M	5.81552G	5.83373G	28.186M	5.810757G	5.838943G	500k	4

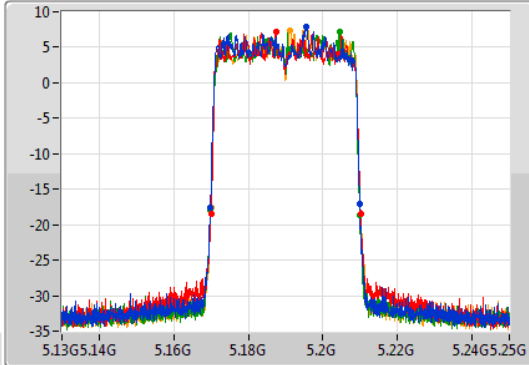
802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

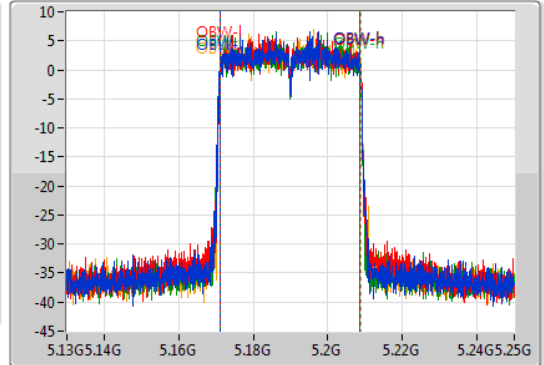
5190MHz

05/10/2019

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.08M	5.16978G	5.20986G	37.661M	5.171049G	5.208711G	Inf	1
40.2M	5.16996G	5.21016G	37.541M	5.171169G	5.208711G	Inf	2
40.08M	5.16984G	5.20992G	37.601M	5.171049G	5.208651G	Inf	3
40.26M	5.16996G	5.21022G	37.661M	5.171109G	5.208771G	Inf	4

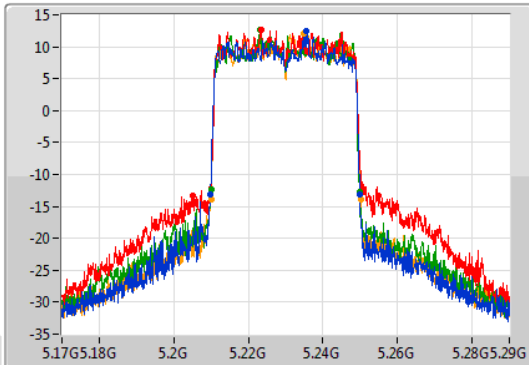
802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

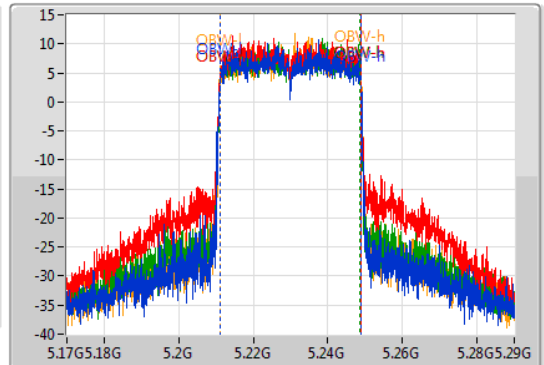
5230MHz

05/10/2019

CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.08M	5.20978G	5.24986G	37.601M	5.211169G	5.248771G	Inf	1
49.62M	5.20522G	5.25484G	37.661M	5.211109G	5.248771G	Inf	2
39.84M	5.21002G	5.24986G	37.481M	5.211169G	5.248651G	Inf	3
40.14M	5.20996G	5.2501G	37.781M	5.211049G	5.248831G	Inf	4

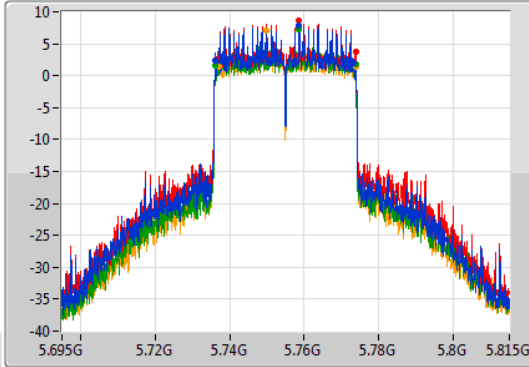
802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

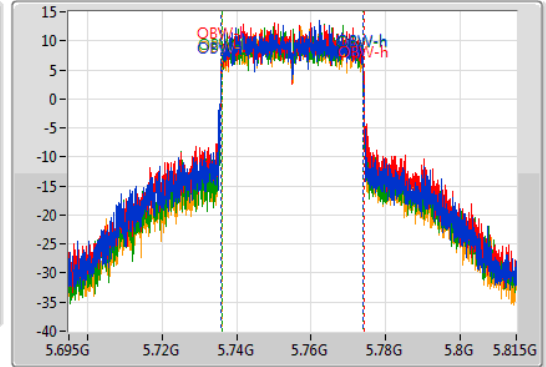
5755MHz

05/10/2019

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.26M	5.7361G	5.77336G	38.021M	5.73581G	5.773831G	500k	1
37.14M	5.73658G	5.77372G	38.261M	5.73581G	5.77407G	500k	2
37.68M	5.7361G	5.77378G	37.841M	5.73599G	5.773831G	500k	3
36.54M	5.73718G	5.77372G	37.961M	5.73599G	5.773951G	500k	4

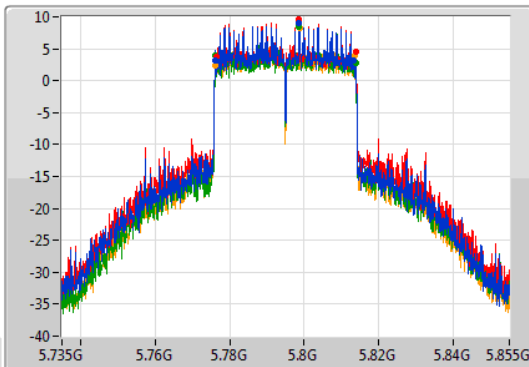
802.11ax HEW40_Nss4,(MCS0)_4TX

EBW

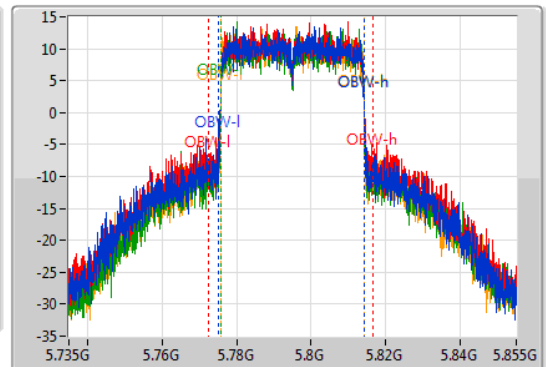
5795MHz

05/10/2019

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.08M	5.7761G	5.81318G	38.981M	5.77521G	5.81419G	500k	1
37.14M	5.77658G	5.81372G	44.138M	5.772331G	5.816469G	500k	2
37.62M	5.77616G	5.81378G	38.441M	5.77575G	5.81419G	500k	3
37.38M	5.77628G	5.81366G	38.441M	5.77569G	5.81413G	500k	4

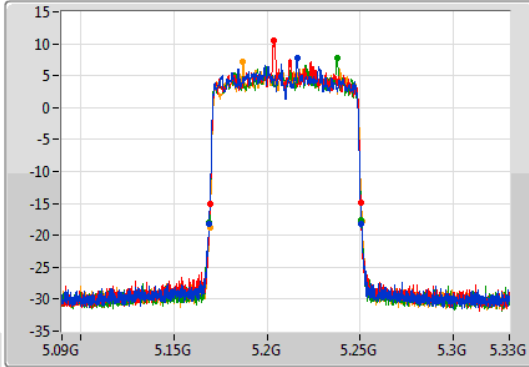
802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

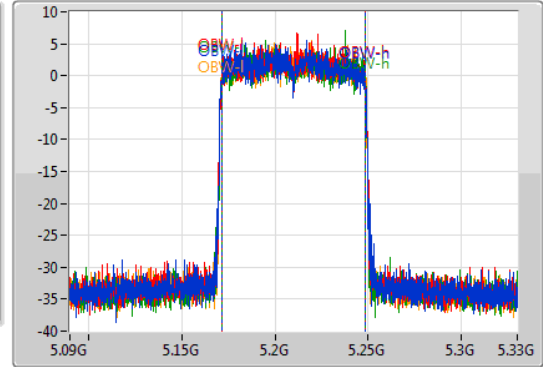
5210MHz

05/10/2019

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.6M	5.16896G	5.25056G	77.121M	5.171259G	5.248381G	Inf	1
80.76M	5.16944G	5.2502G	77.121M	5.171379G	5.248501G	Inf	2
81.48M	5.1692G	5.25068G	77.001M	5.171379G	5.248381G	Inf	3
81.72M	5.16932G	5.25104G	77.121M	5.171379G	5.248501G	Inf	4

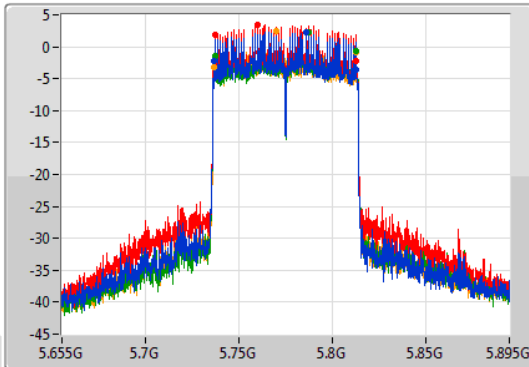
802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

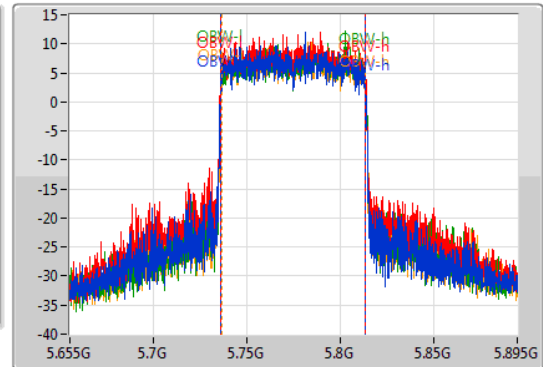
5775MHz

05/10/2019

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.2M	5.73648G	5.81268G	77.121M	5.736139G	5.813261G	500k	1
75.48M	5.73744G	5.81292G	77.361M	5.736139G	5.813501G	500k	2
75.24M	5.73732G	5.81256G	77.241M	5.736139G	5.813381G	500k	3
76.32M	5.73624G	5.81256G	77.121M	5.736379G	5.813501G	500k	4



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	43.32M	22.579M	22M6D1D	21.72M	16.642M
802.11ac VHT20_Nss1,(MCS0)_1TX	35.97M	17.931M	17M9D1D	21.81M	17.781M
802.11ac VHT40_Nss1,(MCS0)_1TX	41.76M	36.282M	36M3D1D	40.32M	36.222M
802.11ac VHT80_Nss1,(MCS0)_1TX	82.2M	75.682M	75M7D1D	82.2M	75.682M
802.11ax HEW20_Nss1,(MCS0)_1TX	41.49M	20.24M	20M2D1D	23.1M	19.01M
802.11ax HEW40_Nss1,(MCS0)_1TX	70.26M	37.841M	37M8D1D	40.2M	37.601M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.2M	77.121M	77M1D1D	82.2M	77.121M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.41M	36.942M	36M9D1D	16.32M	36.702M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.58M	42.999M	43M0D1D	17.55M	28.216M
802.11ac VHT40_Nss1,(MCS0)_1TX	36.3M	54.513M	54M5D1D	36.3M	42.759M
802.11ac VHT80_Nss1,(MCS0)_1TX	75.48M	75.922M	75M9D1D	75.48M	75.922M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.42M	40.18M	40M2D1D	18.03M	33.103M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.26M	65.907M	65M9D1D	37.2M	46.597M
802.11ax HEW80_Nss1,(MCS0)_1TX	76.68M	77.241M	77M2D1D	76.68M	77.241M

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)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.72M	16.642M
5200MHz	Pass	Inf	43.26M	22.579M
5240MHz	Pass	Inf	43.32M	19.07M
5745MHz	Pass	500k	16.41M	36.762M
5785MHz	Pass	500k	16.32M	36.702M
5825MHz	Pass	500k	16.32M	36.942M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.81M	17.781M
5200MHz	Pass	Inf	35.97M	17.931M
5240MHz	Pass	Inf	24.96M	17.871M
5745MHz	Pass	500k	17.55M	28.816M
5785MHz	Pass	500k	17.58M	42.999M
5825MHz	Pass	500k	17.55M	28.216M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.32M	36.222M
5230MHz	Pass	Inf	41.76M	36.282M
5755MHz	Pass	500k	36.3M	42.759M
5795MHz	Pass	500k	36.3M	54.513M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.2M	75.682M
5775MHz	Pass	500k	75.48M	75.922M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	23.1M	19.01M
5200MHz	Pass	Inf	41.49M	20.24M
5240MHz	Pass	Inf	41.28M	19.7M
5745MHz	Pass	500k	18.42M	33.853M
5785MHz	Pass	500k	18.03M	40.18M
5825MHz	Pass	500k	18.42M	33.103M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.2M	37.601M
5230MHz	Pass	Inf	70.26M	37.841M
5755MHz	Pass	500k	37.26M	46.597M
5795MHz	Pass	500k	37.2M	65.907M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.2M	77.121M
5775MHz	Pass	500k	76.68M	77.241M

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

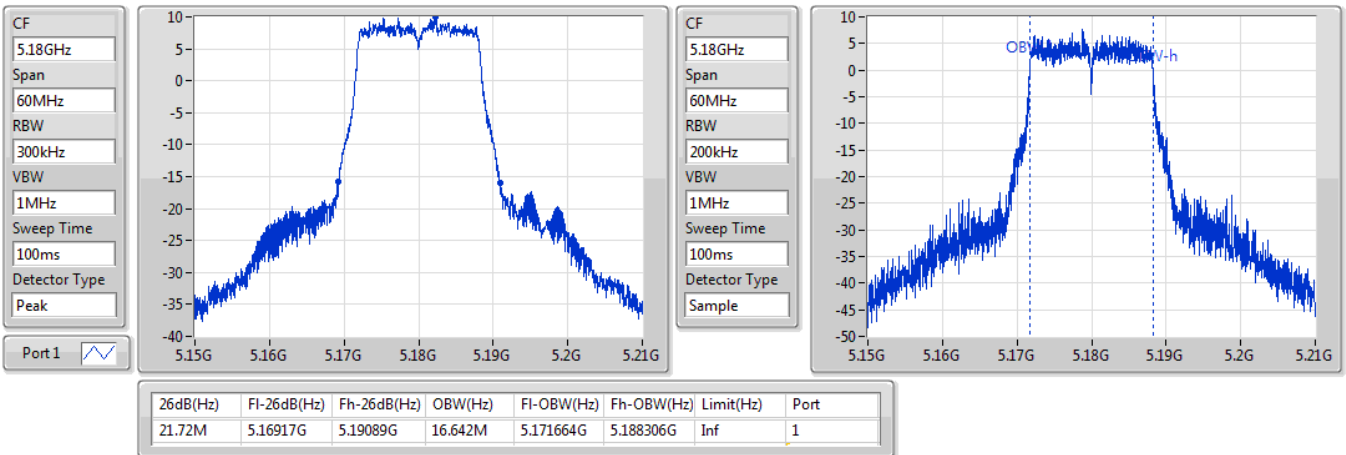
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

08/10/2019

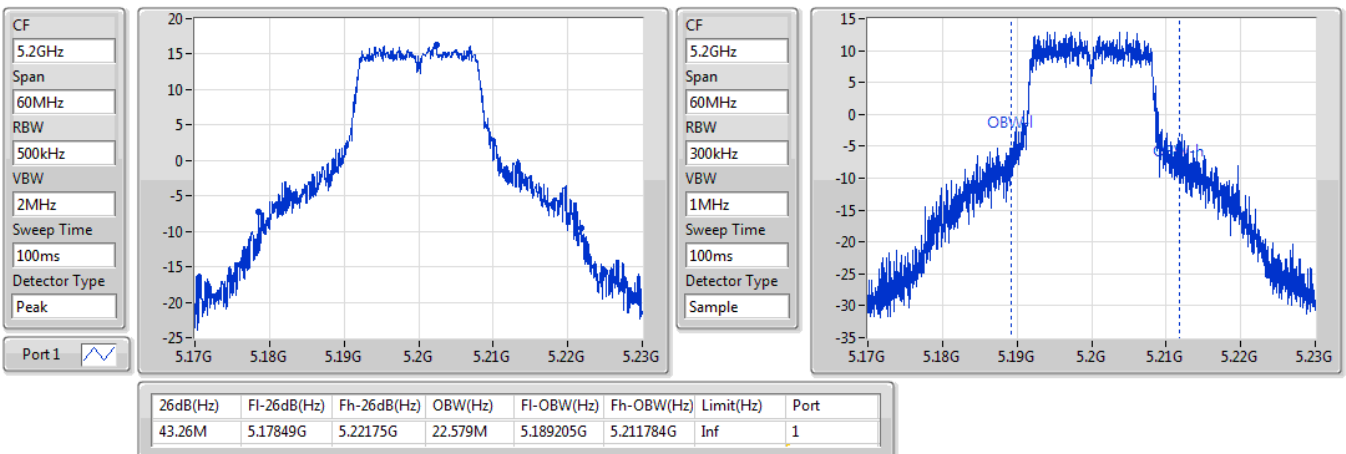


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

08/10/2019



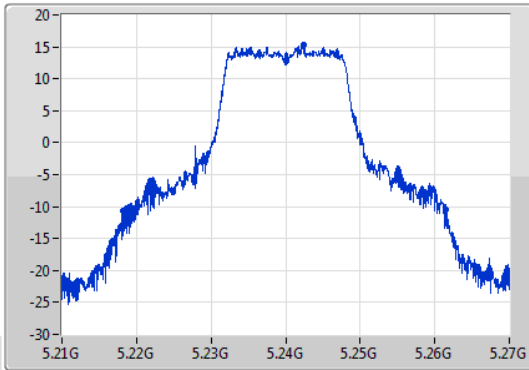
802.11a_Nss1,(6Mbps)_1TX

EBW

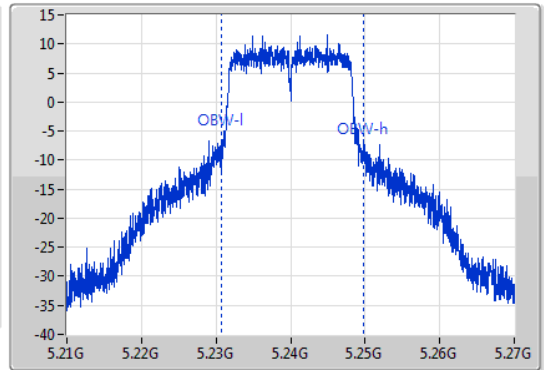
5240MHz

08/10/2019

CF: 5.24GHz
 Span: 60MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak
 Port 1



CF: 5.24GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.32M	5.21822G	5.26154G	19.07M	5.230645G	5.249715G	Inf	1

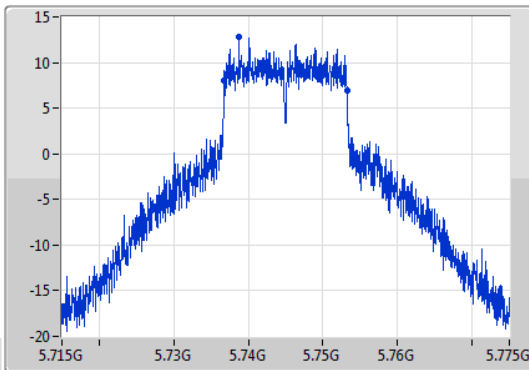
802.11a_Nss1,(6Mbps)_1TX

EBW

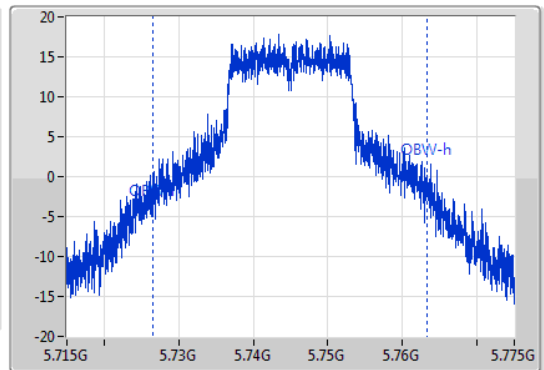
5745MHz

08/10/2019

CF: 5.745GHz
 Span: 60MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak
 Port 1



CF: 5.745GHz
 Span: 60MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.41M	5.73678G	5.75319G	36.762M	5.726589G	5.763351G	500k	1

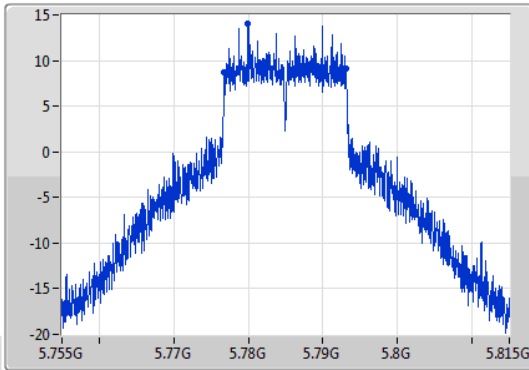
802.11a_Nss1,(6Mbps)_1TX

EBW

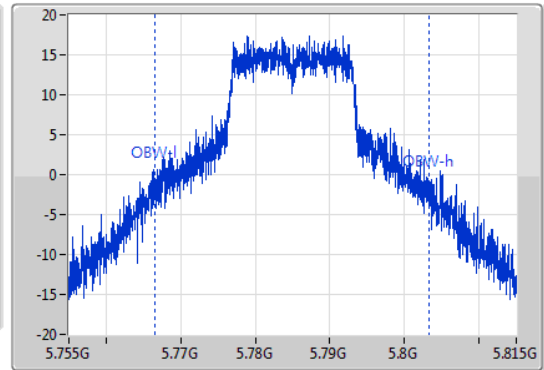
5785MHz

08/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.77681G	5.79313G	36.702M	5.766589G	5.803291G	500k	1

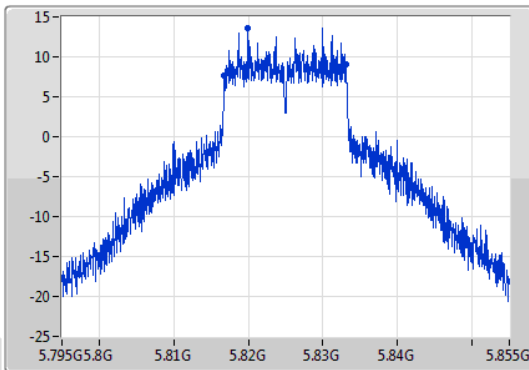
802.11a_Nss1,(6Mbps)_1TX

EBW

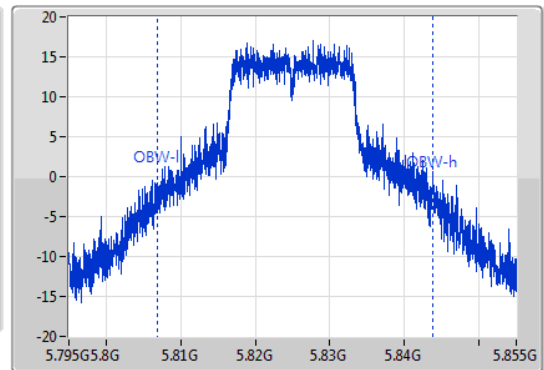
5825MHz

08/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.825GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



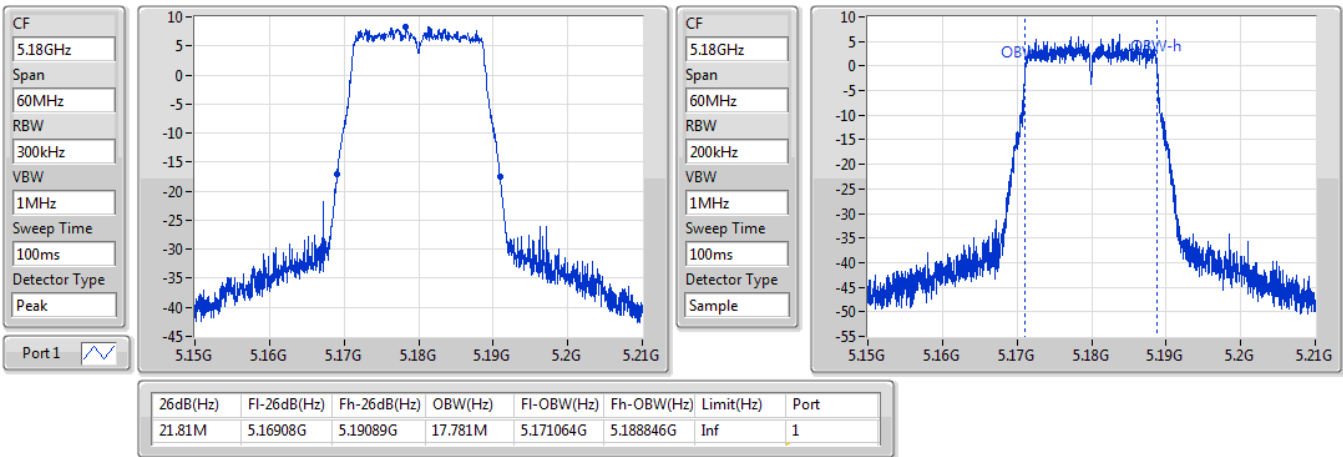
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.81681G	5.83313G	36.942M	5.806829G	5.843771G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5180MHz

31/10/2019

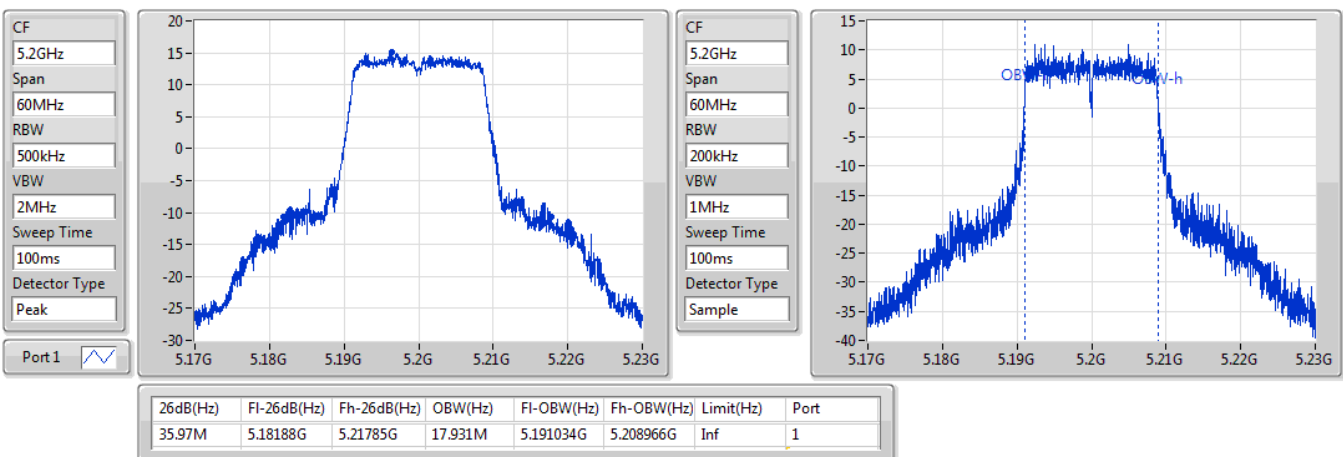


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5200MHz

31/10/2019

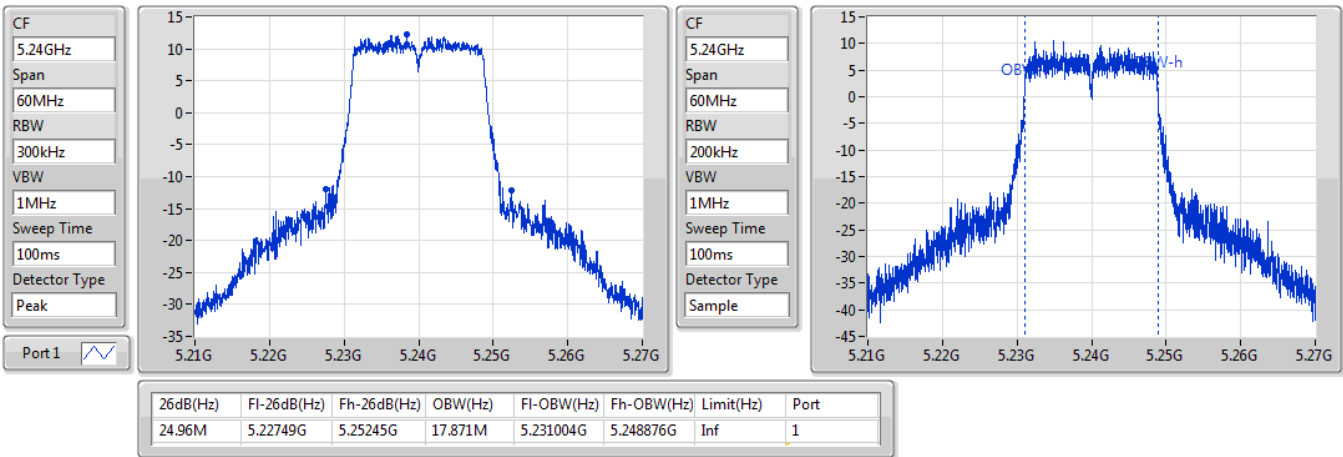


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5240MHz

31/10/2019

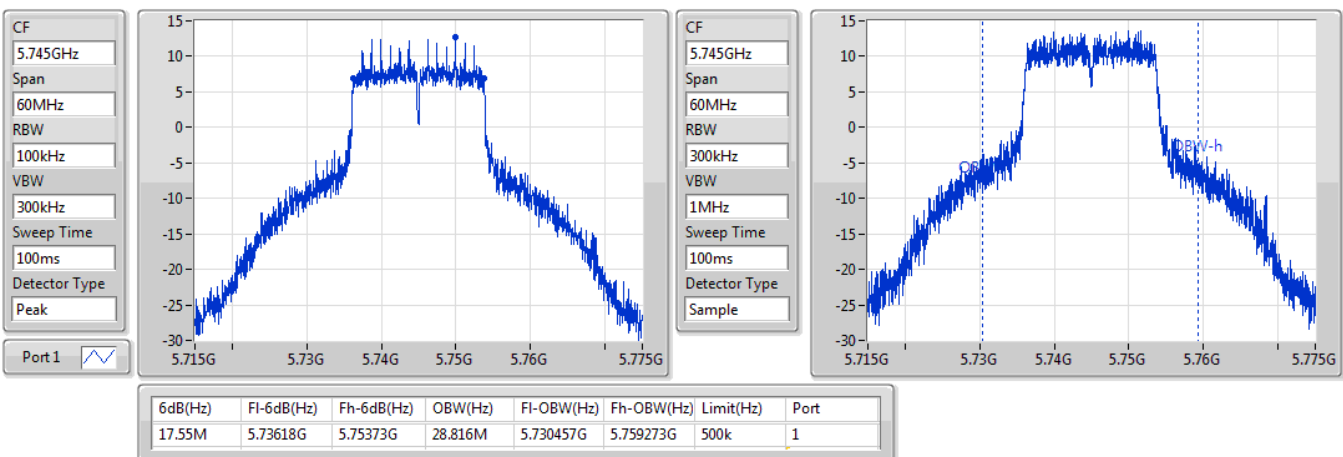


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5745MHz

30/10/2019

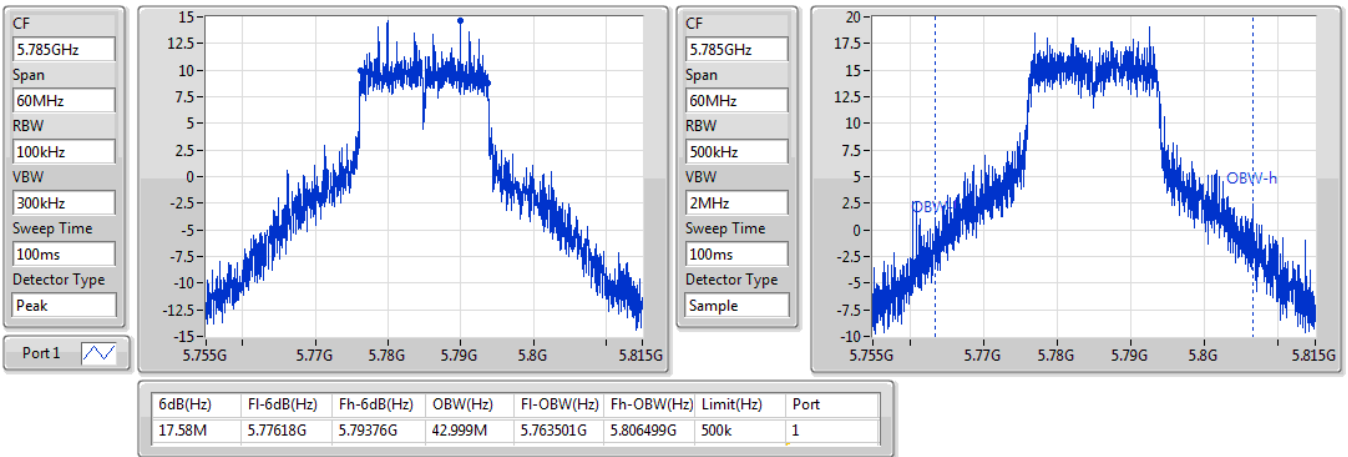


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5785MHz

30/10/2019

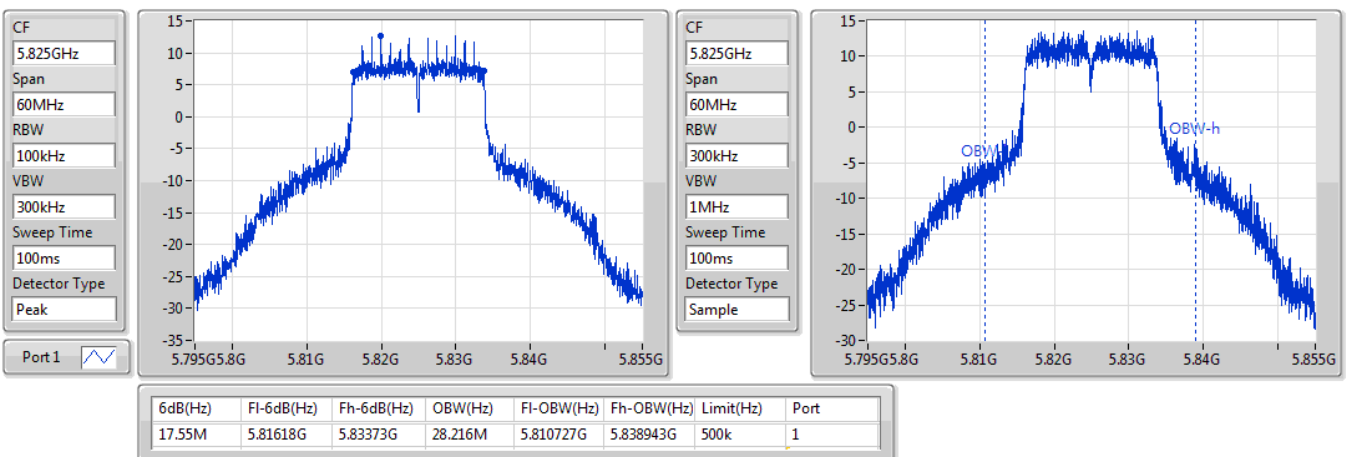


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5825MHz

30/10/2019

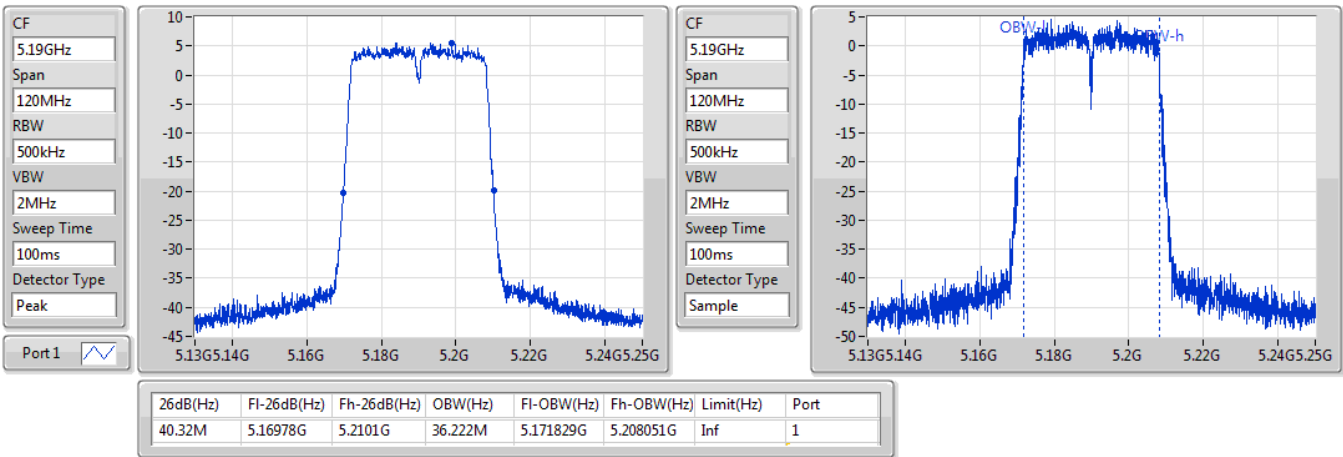


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5190MHz

31/10/2019

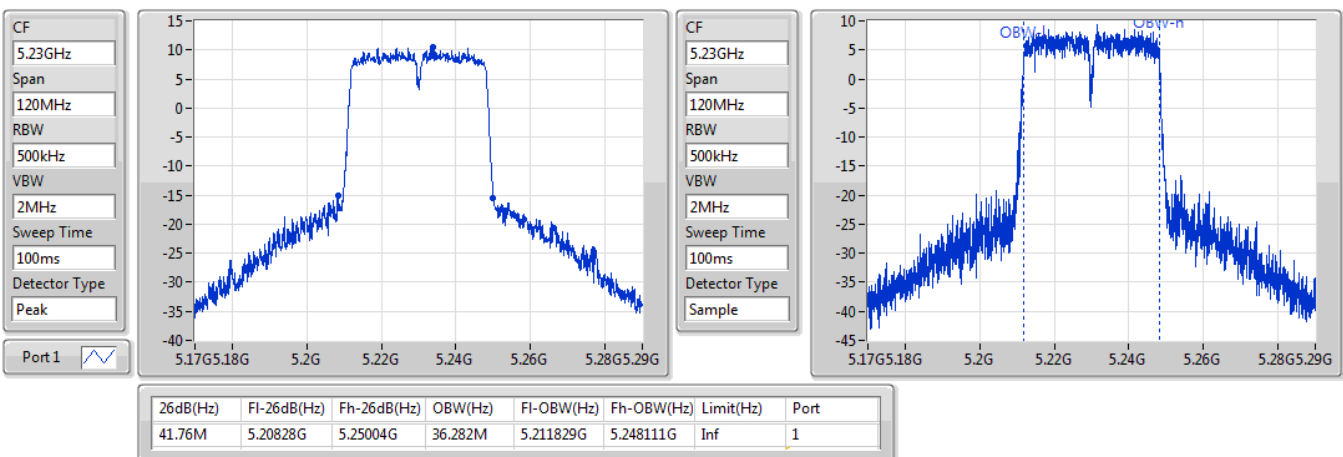


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5230MHz

31/10/2019



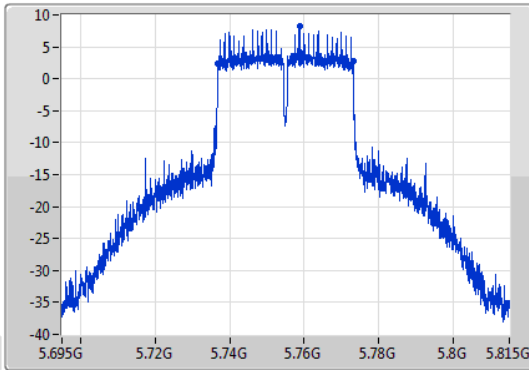
802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

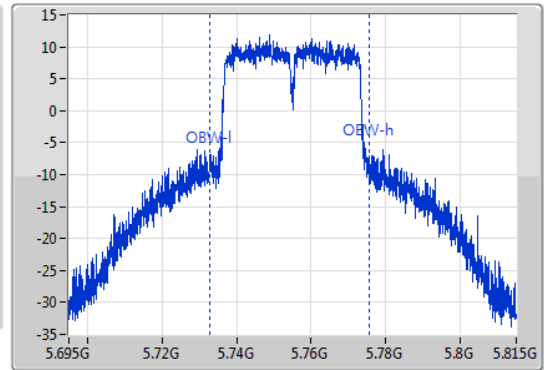
5755MHz

30/10/2019

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.755GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.73682G	5.77312G	42.759M	5.732931G	5.77569G	500k	1

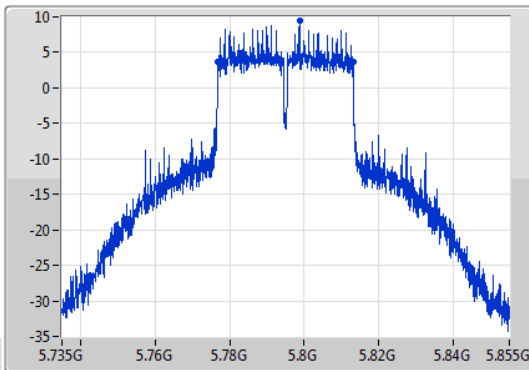
802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

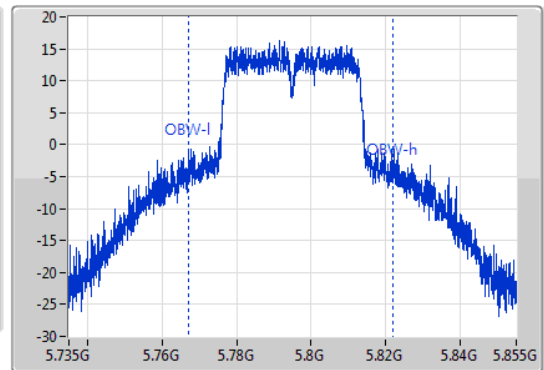
5795MHz

30/10/2019

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.795GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



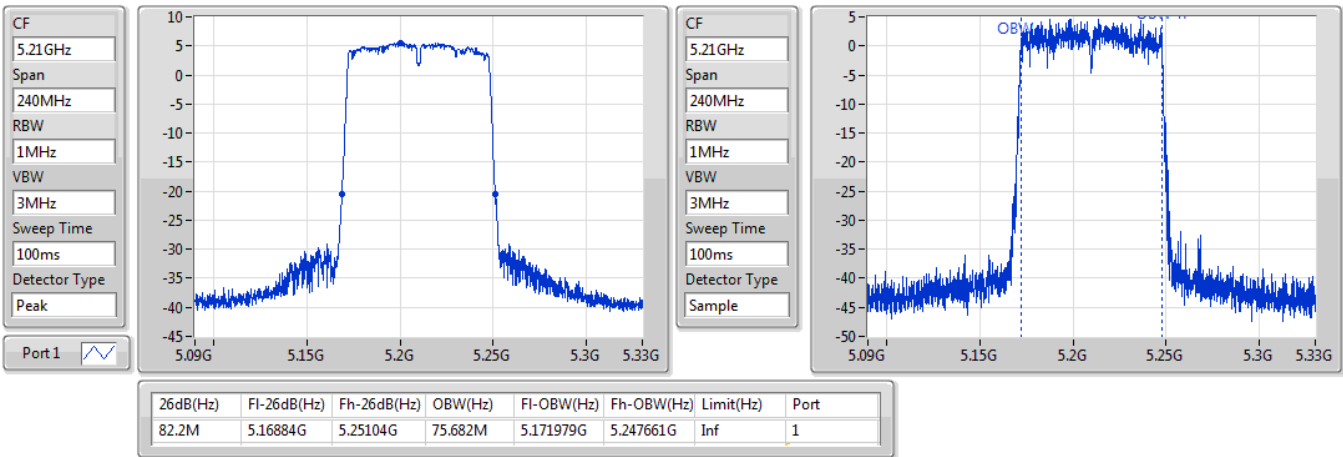
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.77682G	5.81312G	54.513M	5.767234G	5.821747G	500k	1

802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5210MHz

31/10/2019

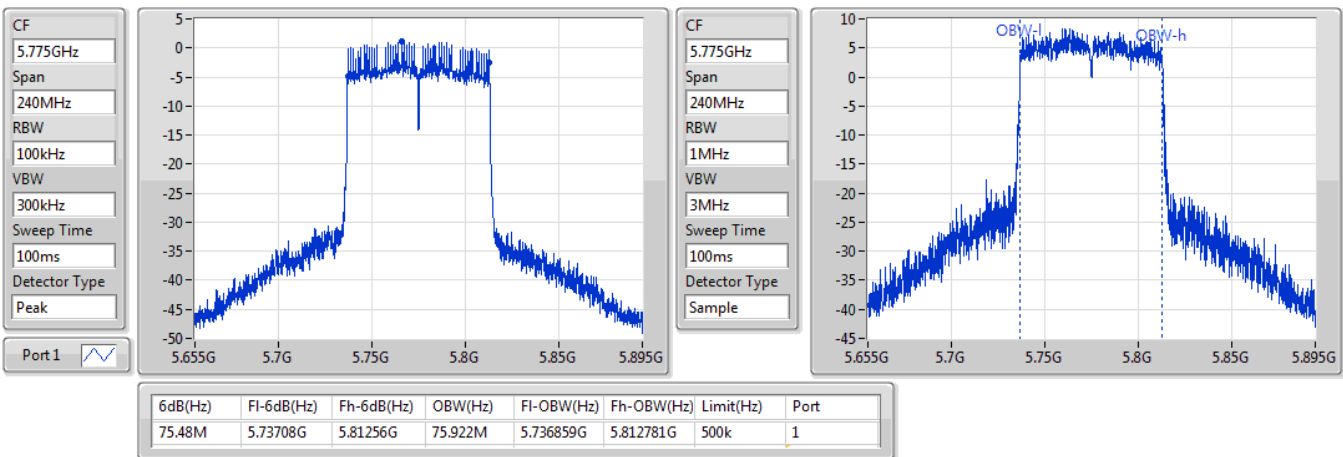


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5775MHz

30/10/2019

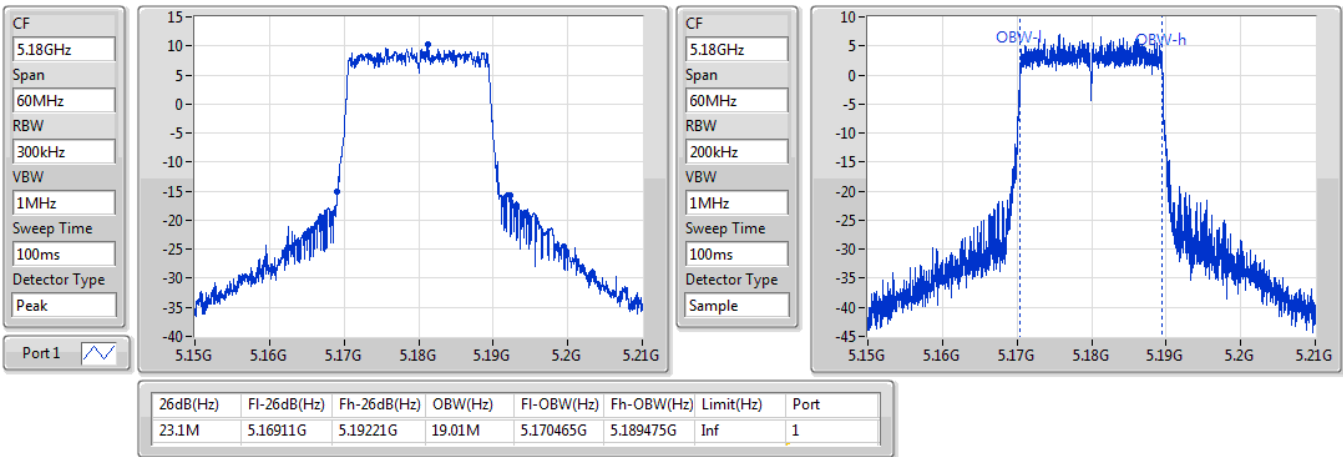


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

08/10/2019

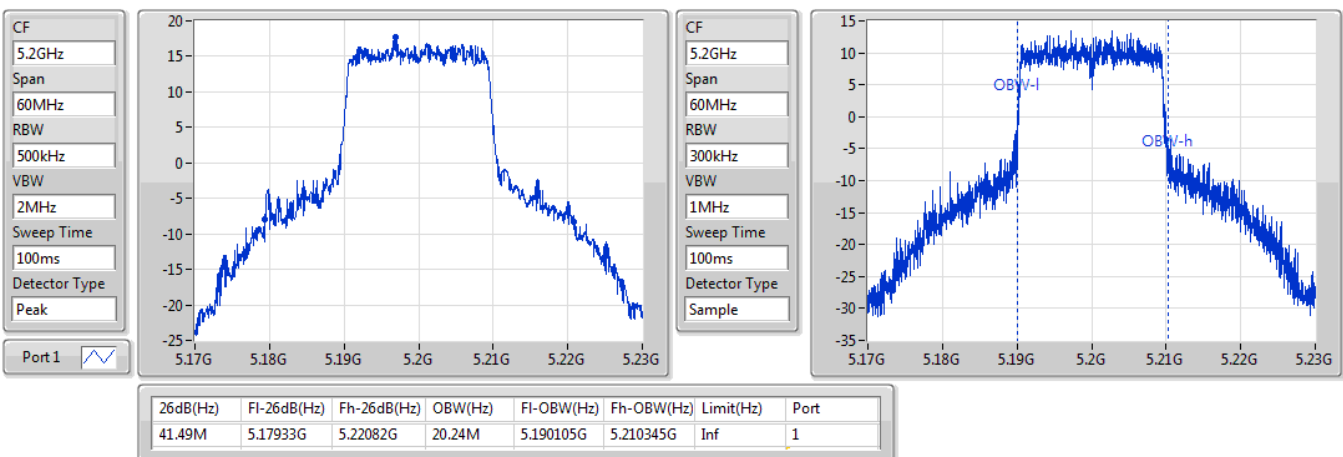


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

08/10/2019

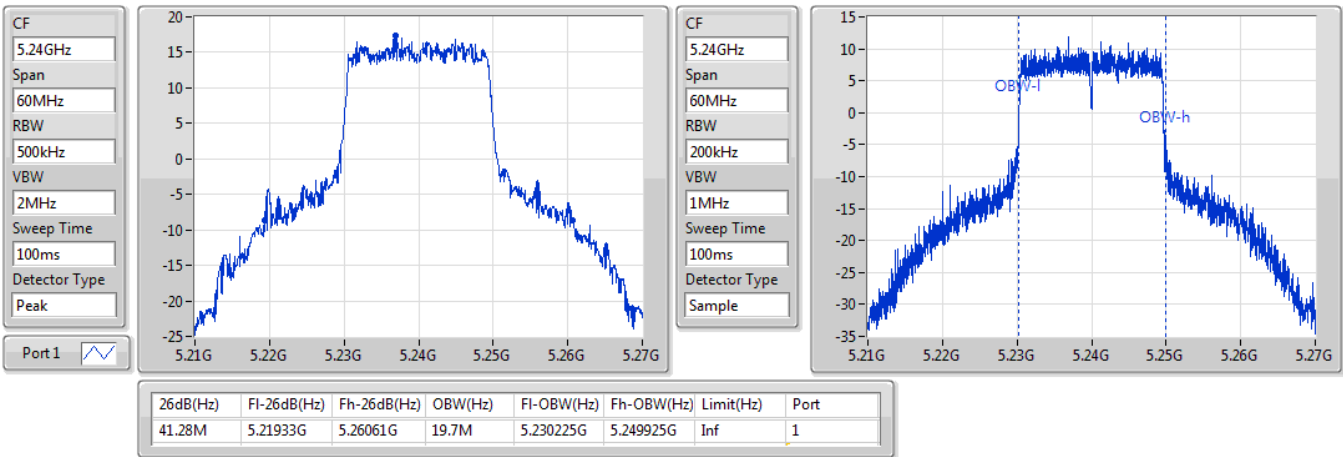


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

08/10/2019

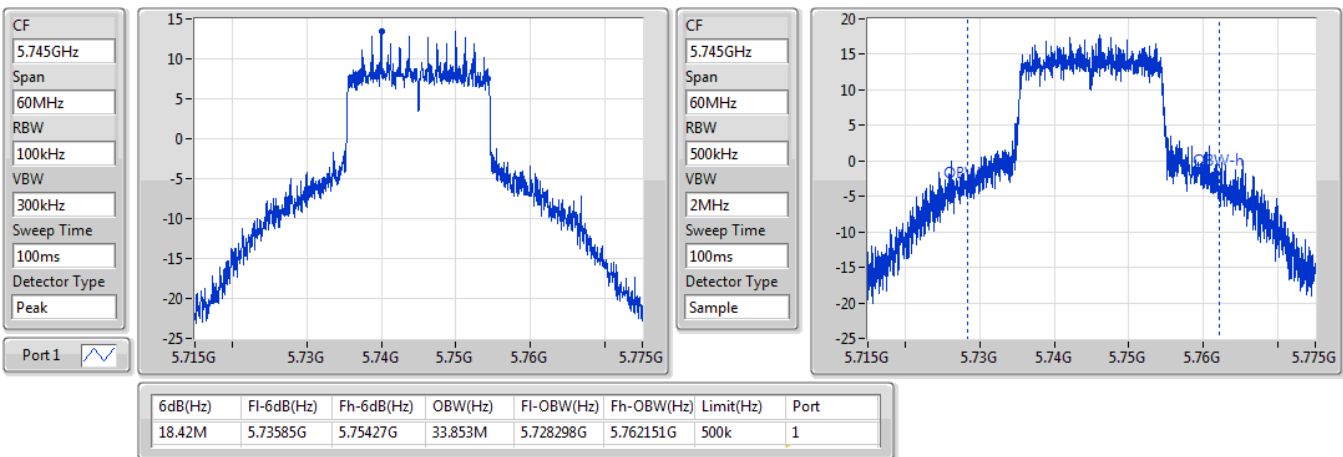


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

08/10/2019

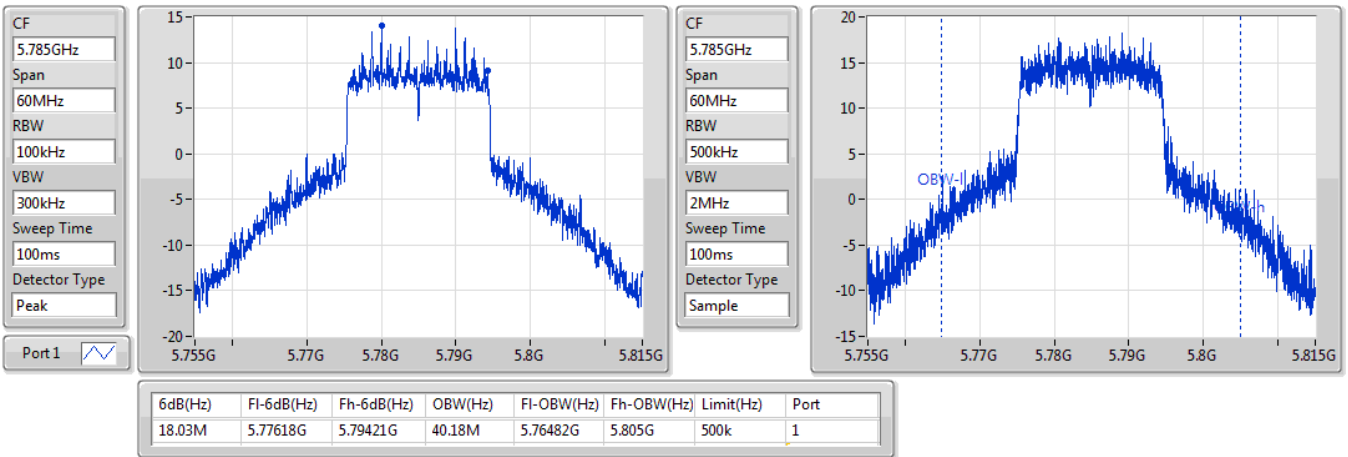


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

08/10/2019

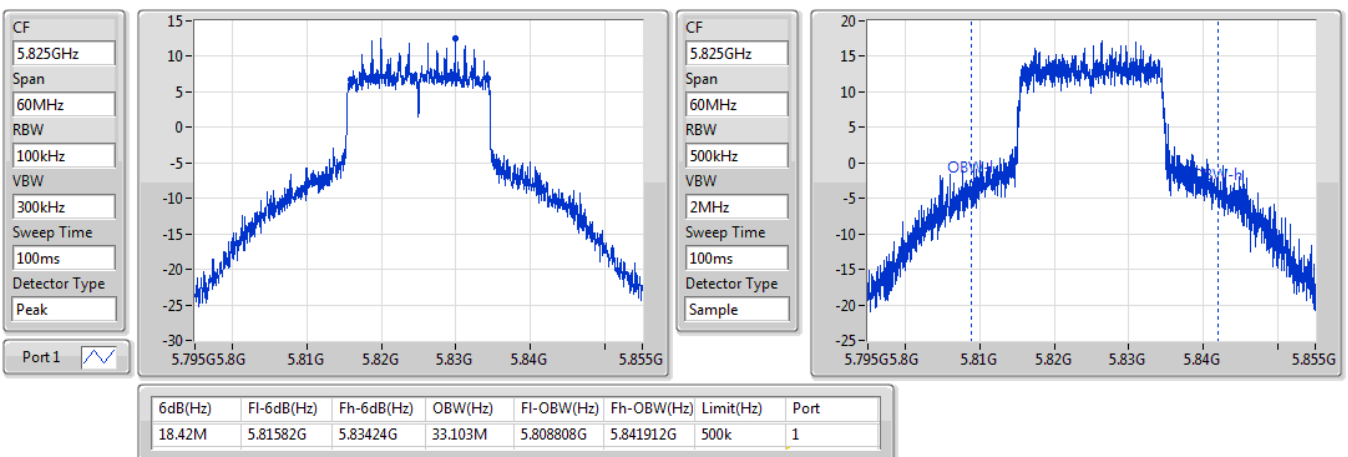


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5825MHz

08/10/2019



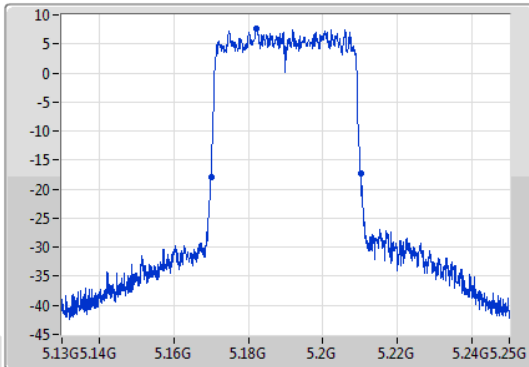
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

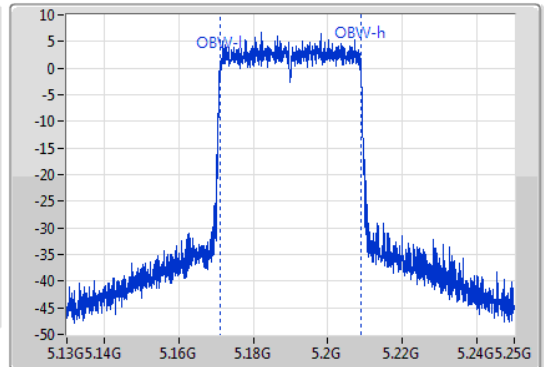
5190MHz

08/10/2019

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.2M	5.16996G	5.21016G	37.601M	5.171169G	5.208771G	Inf	1

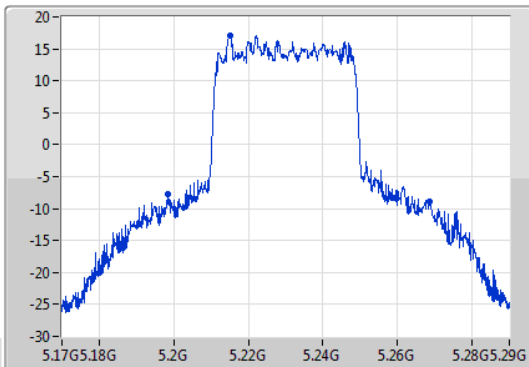
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

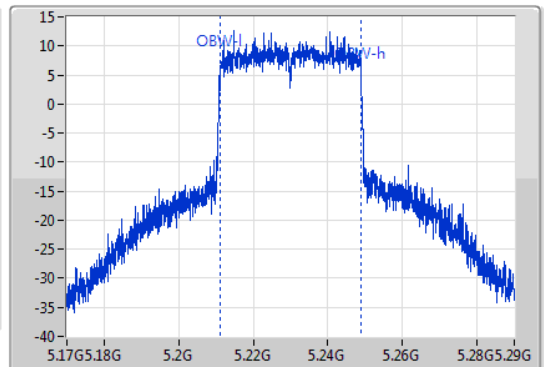
5230MHz

08/10/2019

CF
5.23GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
70.26M	5.19826G	5.26852G	37.841M	5.211049G	5.248891G	Inf	1

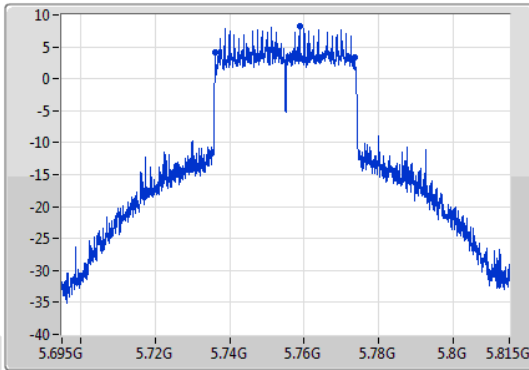
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

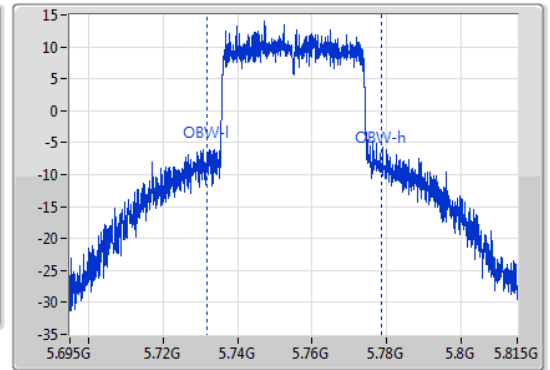
5755MHz

08/10/2019

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.755GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.26M	5.73616G	5.77342G	46.597M	5.731912G	5.778508G	500k	1

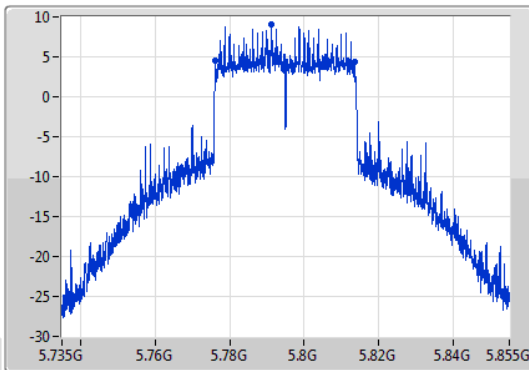
802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

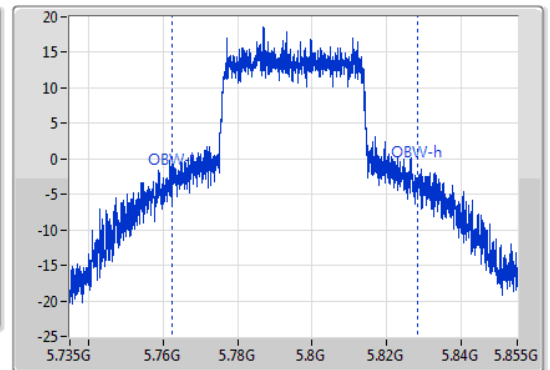
5795MHz

08/10/2019

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.795GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.2M	5.77622G	5.81342G	65.907M	5.762376G	5.828283G	500k	1

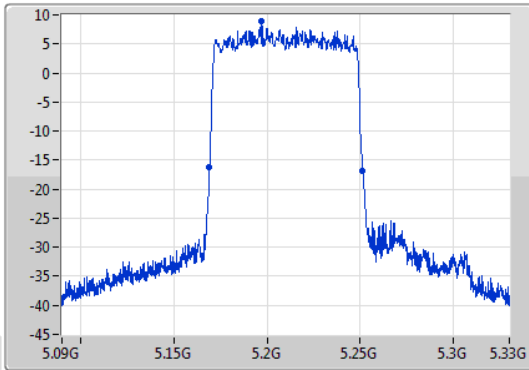
802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

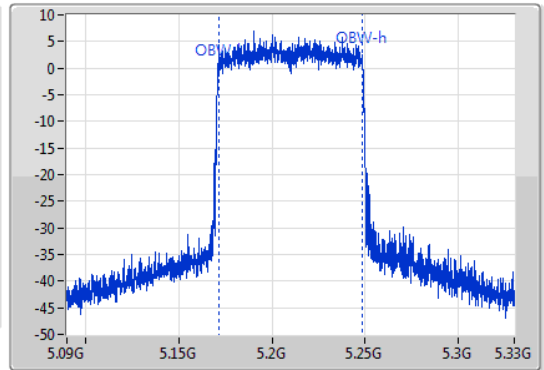
5210MHz

08/10/2019

CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.21GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.2M	5.1692G	5.2514G	77.121M	5.171379G	5.248501G	Inf	1

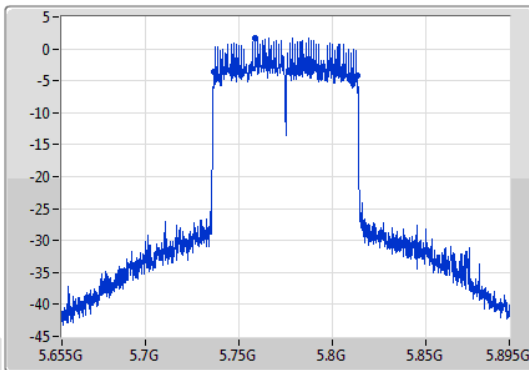
802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

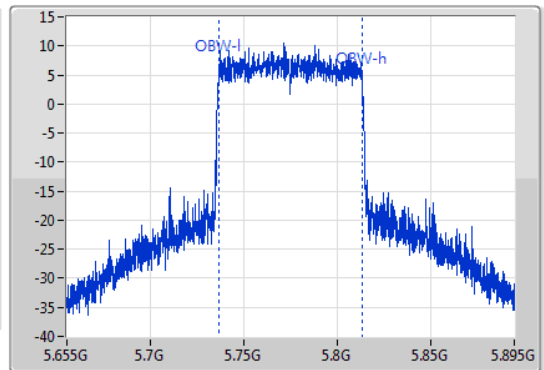
5775MHz

08/10/2019

CF
5.775GHz
Span
240MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
5.775GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.68M	5.73648G	5.81316G	77.241M	5.736259G	5.813501G	500k	1



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	43.38M	19.97M	20MOD1D	21.57M	16.642M
802.11ac VHT20_Nss2,(MCS0)_2TX	39.42M	18.141M	18M1D1D	21.48M	17.781M
802.11ac VHT40_Nss2,(MCS0)_2TX	40.38M	36.282M	36M3D1D	39.96M	36.222M
802.11ac VHT80_Nss2,(MCS0)_2TX	81.96M	75.802M	75M8D1D	81.36M	75.682M
802.11ax HEW20_Nss2,(MCS0)_2TX	43.38M	19.64M	19M6D1D	21.57M	18.981M
802.11ax HEW40_Nss2,(MCS0)_2TX	77.88M	37.781M	37M8D1D	40.02M	37.541M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.48M	77.001M	77M0D1D	81.24M	77.001M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	17.58M	38.201M	38M2D1D	16.32M	20M
802.11ac VHT20_Nss2,(MCS0)_2TX	17.58M	42.879M	42M9D1D	17.55M	20.84M
802.11ac VHT40_Nss2,(MCS0)_2TX	36.36M	36.822M	36M8D1D	36.3M	36.582M
802.11ac VHT80_Nss2,(MCS0)_2TX	75.48M	75.802M	75M8D1D	75.36M	75.802M
802.11ax HEW20_Nss2,(MCS0)_2TX	18.84M	41.469M	41M5D1D	18.03M	20.69M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.62M	46.057M	46M1D1D	37.5M	38.081M
802.11ax HEW80_Nss2,(MCS0)_2TX	75.36M	77.361M	77M4D1D	75.36M	77.121M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	16.672M	22.2M	16.642M
5200MHz	Pass	Inf	43.11M	18.561M	43.38M	19.97M
5240MHz	Pass	Inf	43.02M	17.841M	43.11M	19.55M
5745MHz	Pass	500k	17.58M	24.438M	17.55M	24.108M
5785MHz	Pass	500k	16.32M	35.922M	16.32M	38.201M
5825MHz	Pass	500k	17.58M	20.18M	17.55M	20M
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.66M	17.781M	21.48M	17.781M
5200MHz	Pass	Inf	35.22M	17.991M	36.54M	18.081M
5240MHz	Pass	Inf	35.7M	18.051M	39.42M	18.141M
5745MHz	Pass	500k	17.55M	25.517M	17.55M	27.946M
5785MHz	Pass	500k	17.58M	42.219M	17.58M	42.879M
5825MHz	Pass	500k	17.55M	20.87M	17.58M	20.84M
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.32M	36.222M	39.96M	36.282M
5230MHz	Pass	Inf	40.38M	36.222M	39.96M	36.222M
5755MHz	Pass	500k	36.3M	36.762M	36.3M	36.822M
5795MHz	Pass	500k	36.36M	36.582M	36.3M	36.582M
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.96M	75.682M	81.36M	75.802M
5775MHz	Pass	500k	75.48M	75.802M	75.36M	75.802M
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.05M	18.981M	21.57M	18.981M
5200MHz	Pass	Inf	33.45M	19.16M	41.16M	19.22M
5240MHz	Pass	Inf	39.51M	19.25M	43.38M	19.64M
5745MHz	Pass	500k	18.69M	22.849M	18.69M	21.259M
5785MHz	Pass	500k	18.57M	39.43M	18.03M	41.469M
5825MHz	Pass	500k	18.84M	21.229M	18.75M	20.69M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.14M	37.661M	40.02M	37.541M
5230MHz	Pass	Inf	57.48M	37.781M	77.88M	37.721M
5755MHz	Pass	500k	37.56M	38.081M	37.62M	46.057M
5795MHz	Pass	500k	37.5M	38.081M	37.62M	42.099M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.24M	77.001M	81.48M	77.001M
5775MHz	Pass	500k	75.36M	77.121M	75.36M	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;

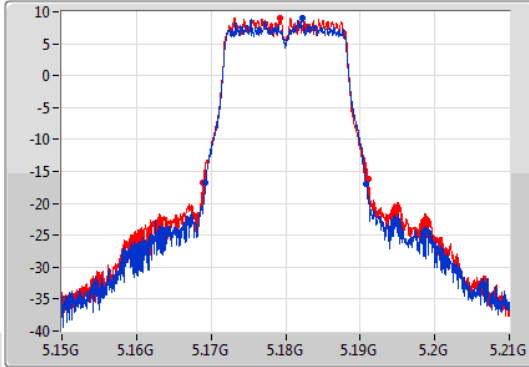
802.11a_Nss1,(6Mbps)_2TX

EBW

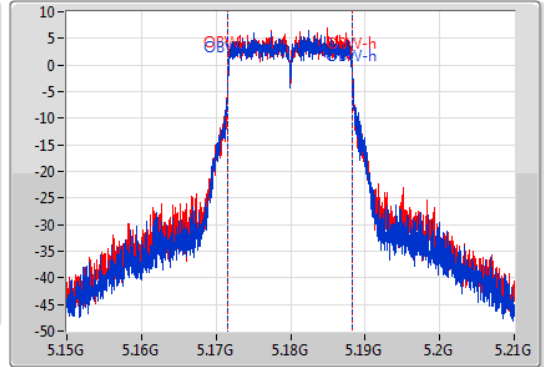
5180MHz

09/10/2019

CF: 5.18GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.18GHz
 Span: 60MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.57M	5.16926G	5.19083G	16.672M	5.171634G	5.188306G	Inf	1
22.2M	5.1689G	5.1911G	16.642M	5.171634G	5.188276G	Inf	2

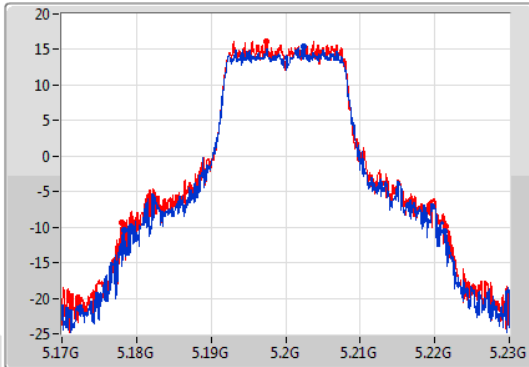
802.11a_Nss1,(6Mbps)_2TX

EBW

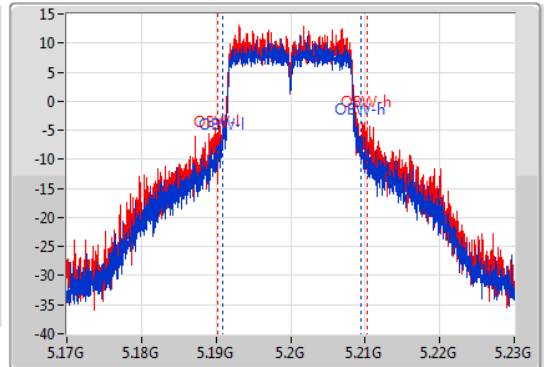
5200MHz

09/10/2019

CF: 5.2GHz
 Span: 60MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.2GHz
 Span: 60MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



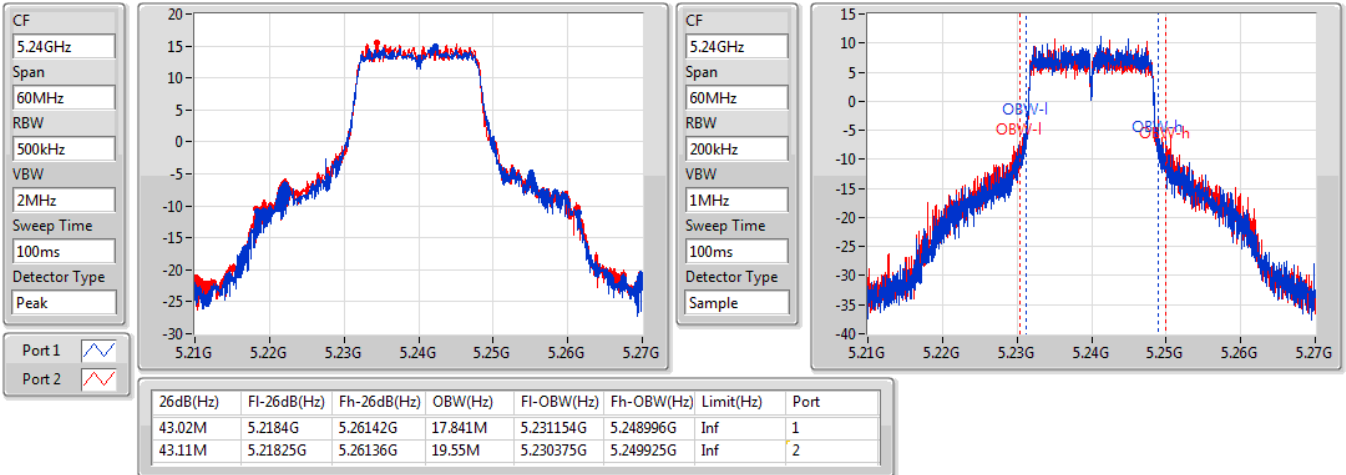
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.11M	5.17828G	5.22139G	18.561M	5.190915G	5.209475G	Inf	1
43.38M	5.1781G	5.22148G	19.97M	5.190255G	5.210225G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

09/10/2019

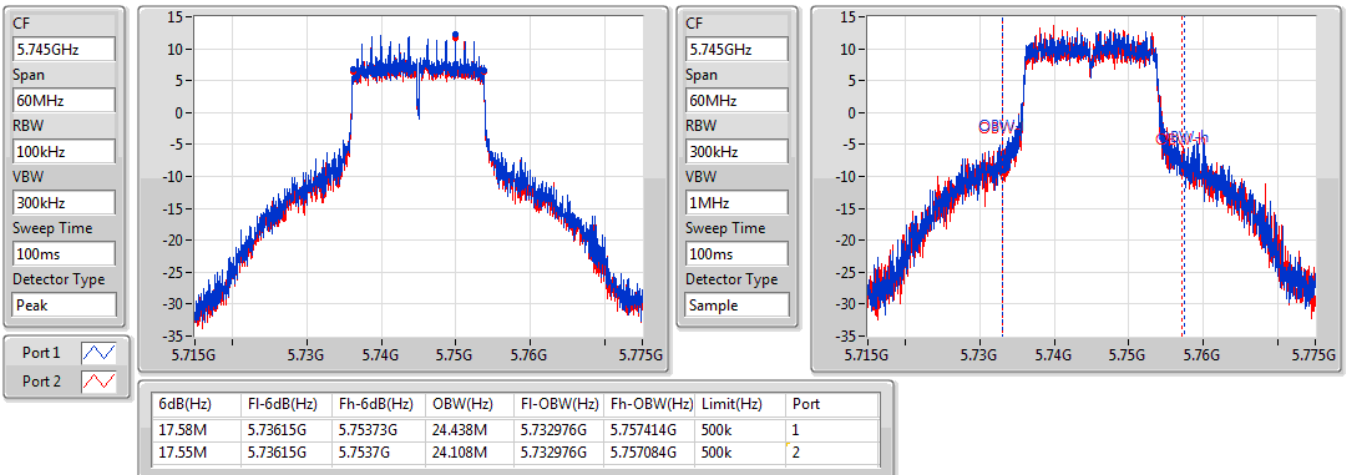


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

31/10/2019



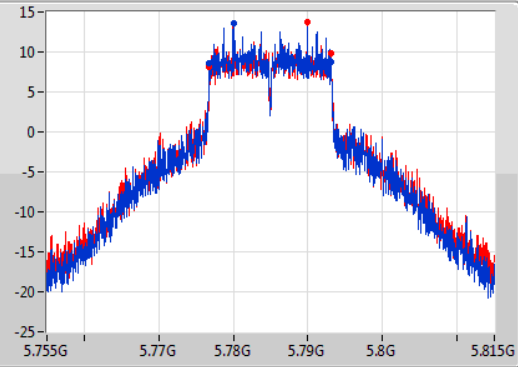
802.11a_Nss1,(6Mbps)_2TX

EBW

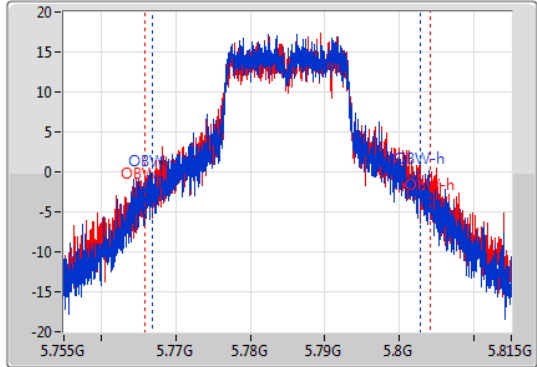
5785MHz

09/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.77681G	5.79313G	35.922M	5.766889G	5.802811G	500k	1
16.32M	5.77681G	5.79313G	38.201M	5.76593G	5.80413G	500k	2

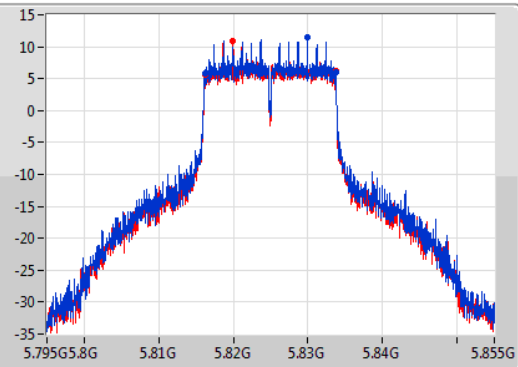
802.11a_Nss1,(6Mbps)_2TX

EBW

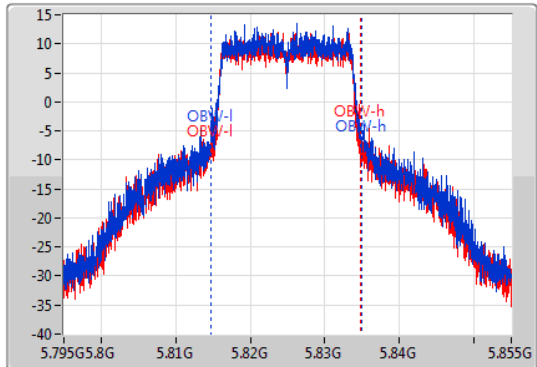
5825MHz

31/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



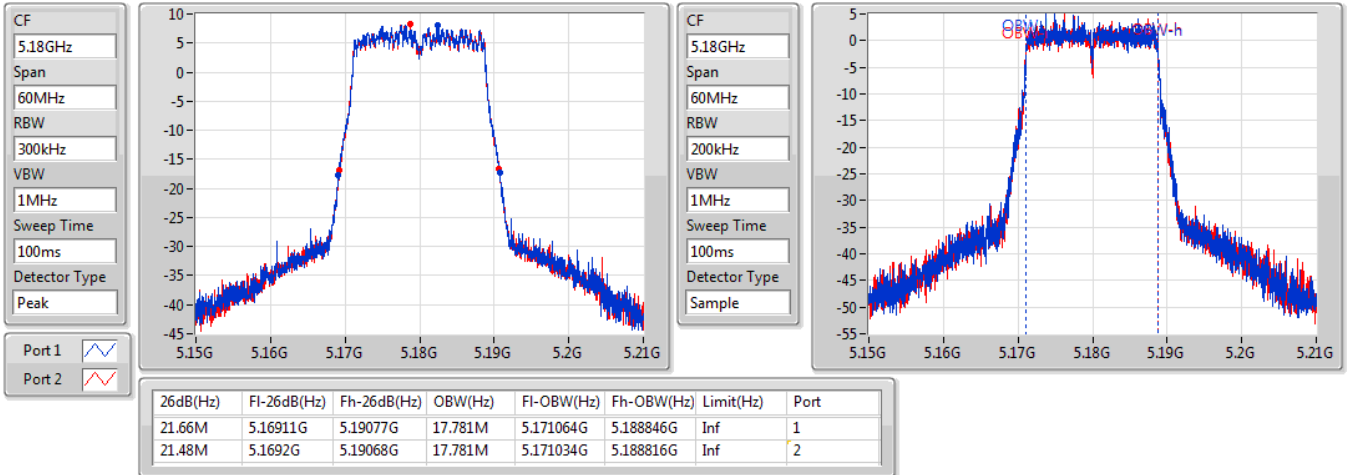
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.81615G	5.83373G	20.18M	5.814745G	5.834925G	500k	1
17.55M	5.81615G	5.8337G	20M	5.814745G	5.834745G	500k	2

802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5180MHz

31/10/2019

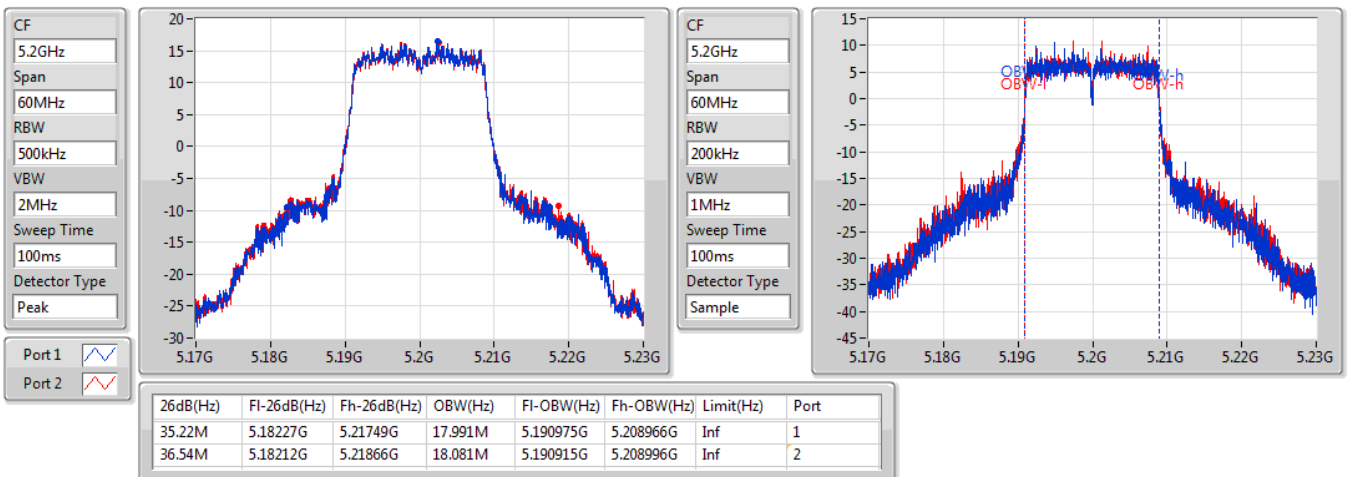


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5200MHz

31/10/2019

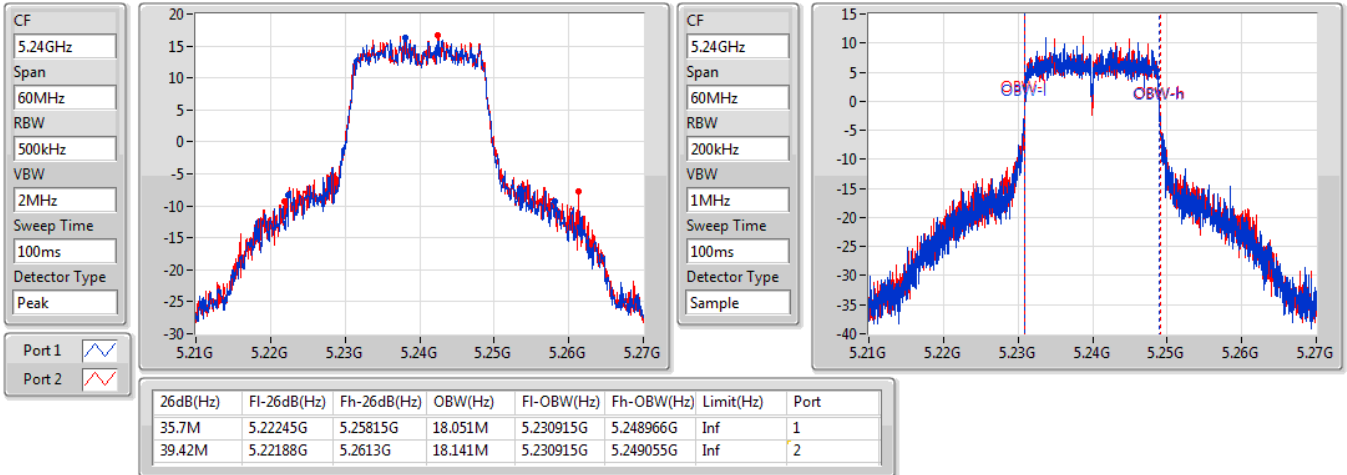


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5240MHz

31/10/2019

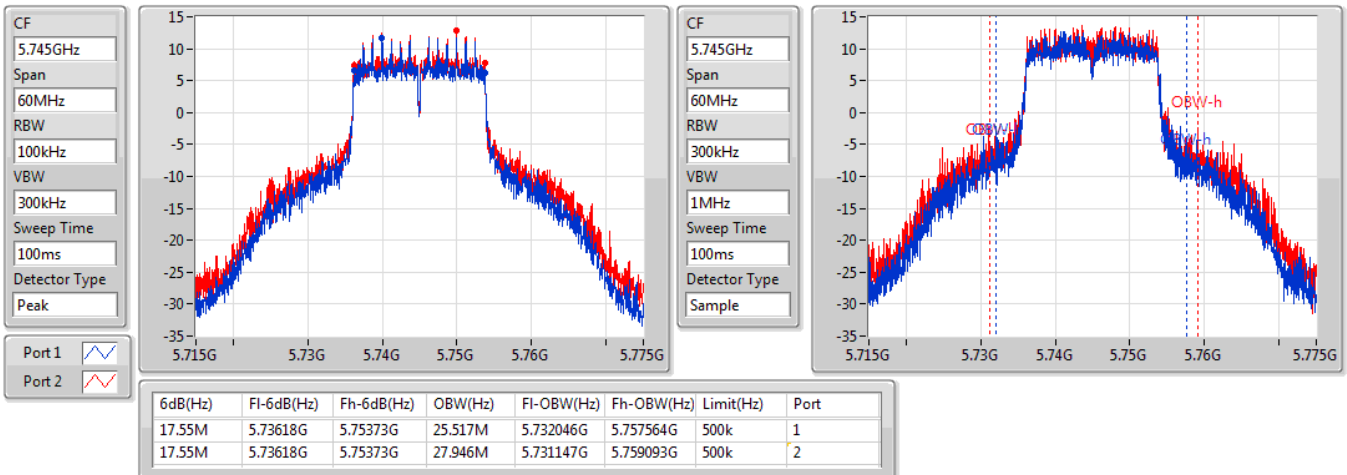


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5745MHz

30/10/2019



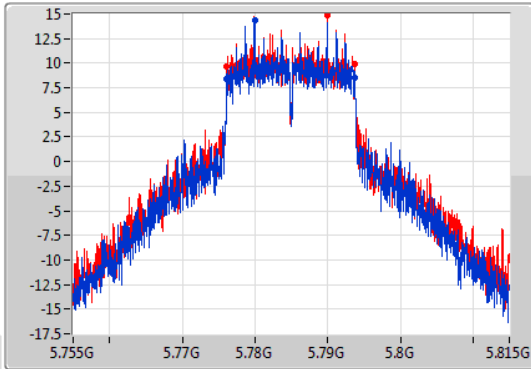
802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

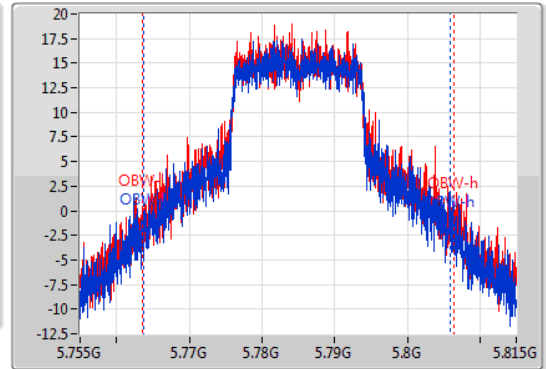
5785MHz

30/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.58M	5.77615G	5.79373G	42.219M	5.763741G	5.80596G	500k	1
17.58M	5.77615G	5.79373G	42.879M	5.763621G	5.806499G	500k	2

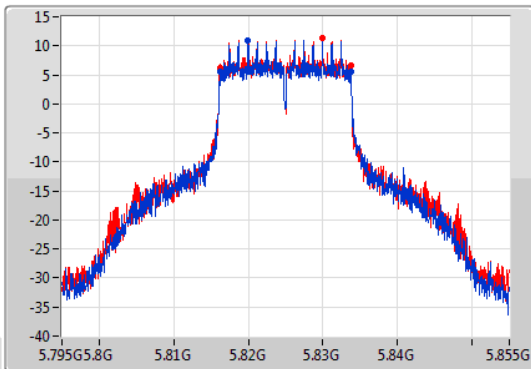
802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

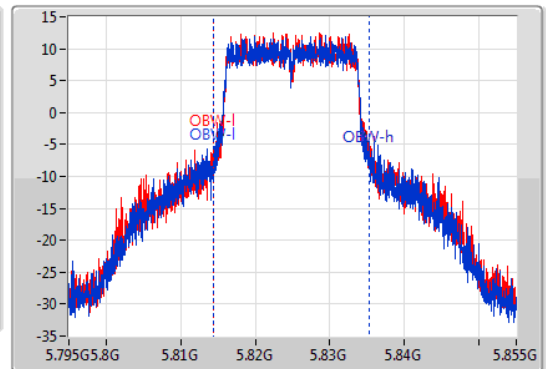
5825MHz

30/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



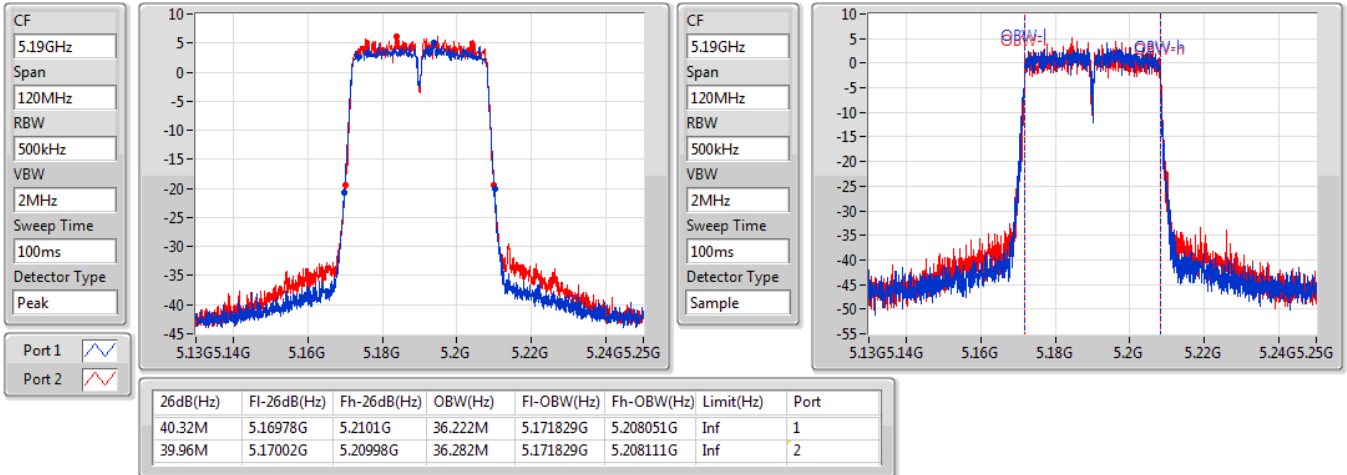
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.81618G	5.83373G	20.87M	5.814385G	5.835255G	500k	1
17.58M	5.81615G	5.83373G	20.84M	5.814445G	5.835285G	500k	2

802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5190MHz

31/10/2019

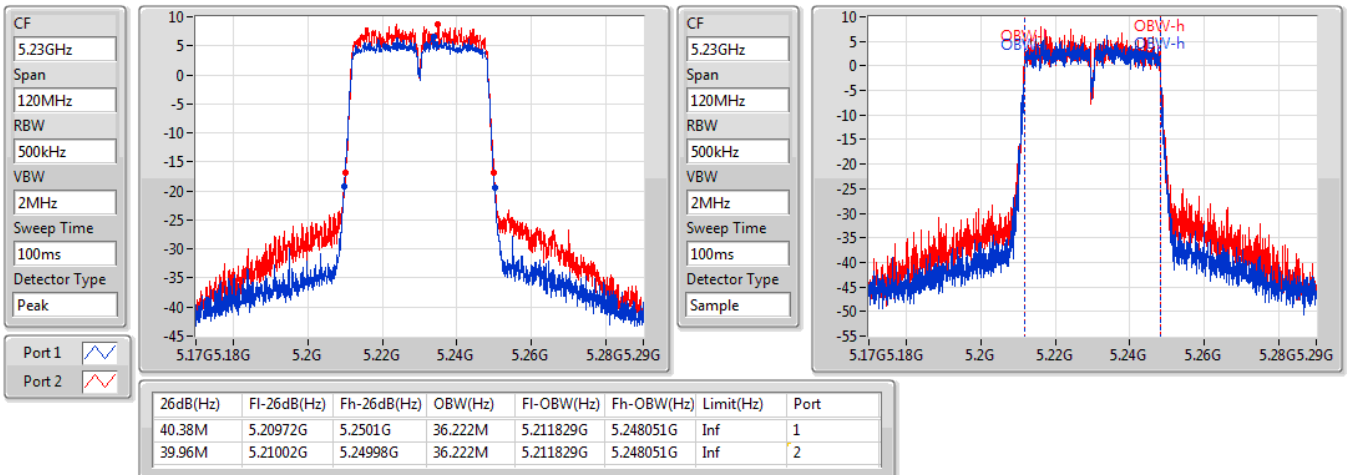


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5230MHz

31/10/2019



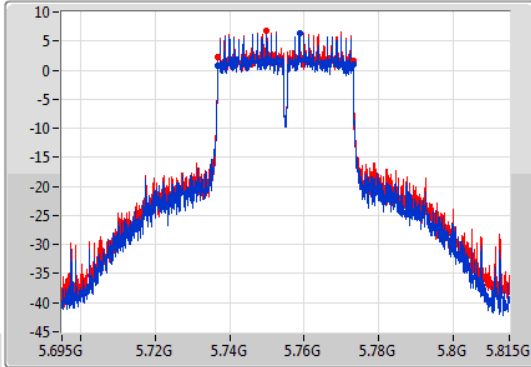
802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

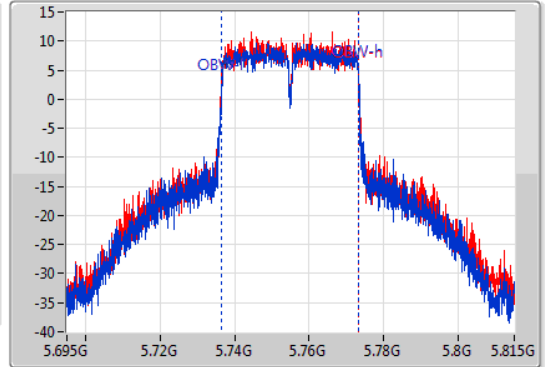
5755MHz

30/10/2019

CF
5.755GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.73682G	5.77312G	36.762M	5.736529G	5.773291G	500k	1
36.3M	5.73682G	5.77312G	36.822M	5.736469G	5.773291G	500k	2

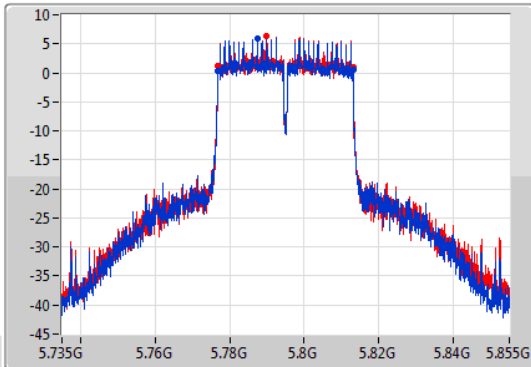
802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

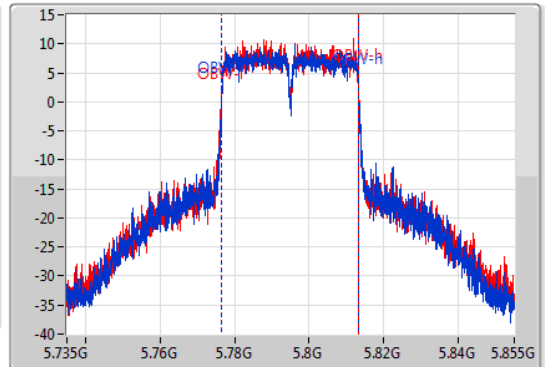
5795MHz

30/10/2019

CF
5.795GHz
Span
120MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



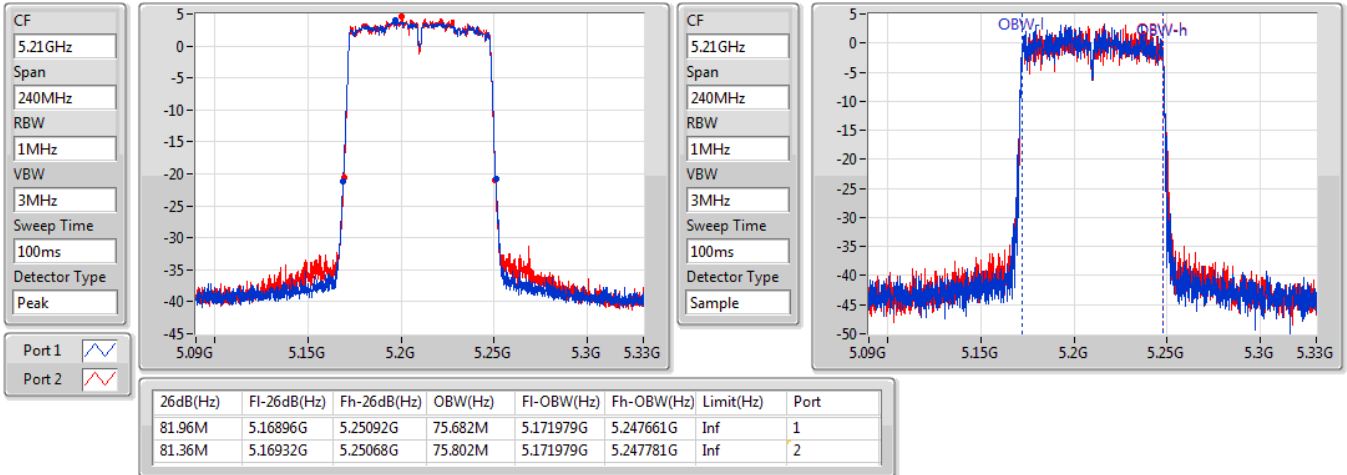
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.36M	5.77676G	5.81312G	36.582M	5.776589G	5.813171G	500k	1
36.3M	5.77676G	5.81306G	36.582M	5.776589G	5.813171G	500k	2

802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5210MHz

31/10/2019

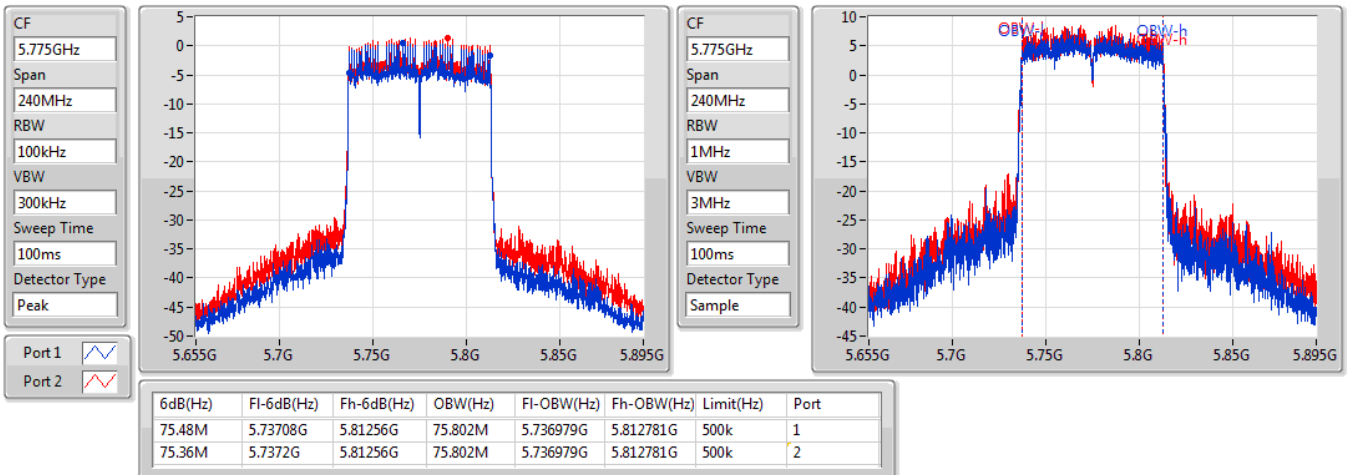


802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5775MHz

30/10/2019



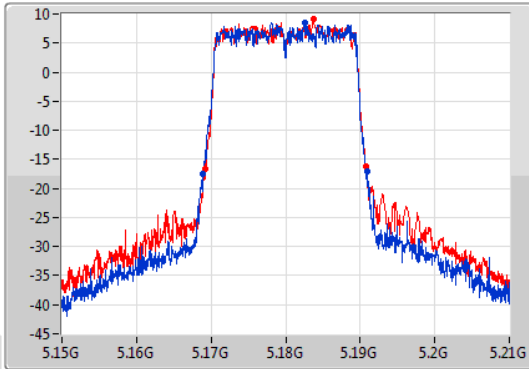
802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

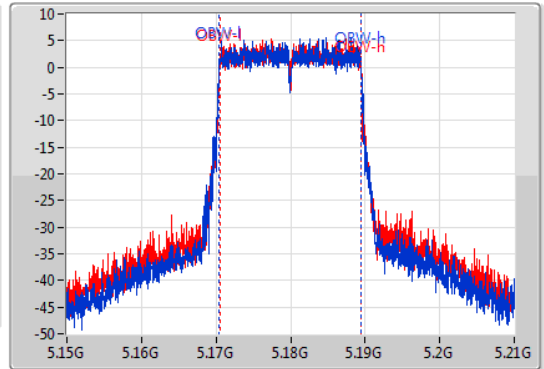
5180MHz

09/10/2019

CF
5.18GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.05M	5.1689G	5.19095G	18.981M	5.170465G	5.189445G	Inf	1
21.57M	5.1692G	5.19077G	18.981M	5.170495G	5.189475G	Inf	2

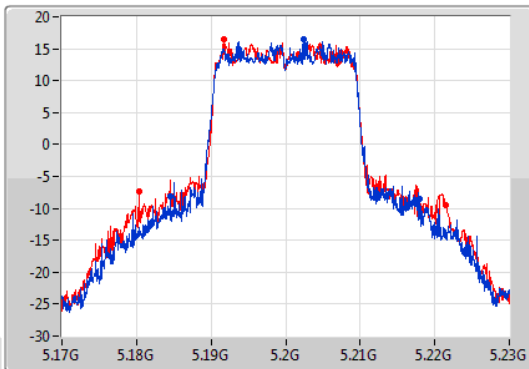
802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

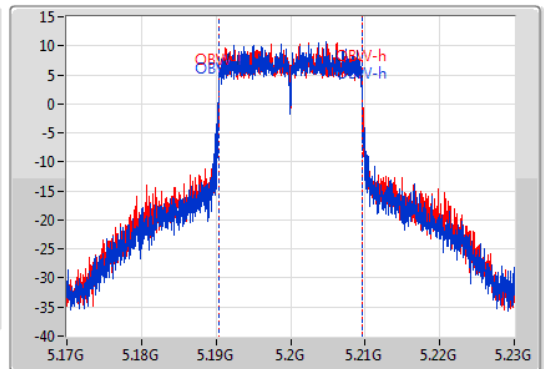
5200MHz

09/10/2019

CF
5.2GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
60MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



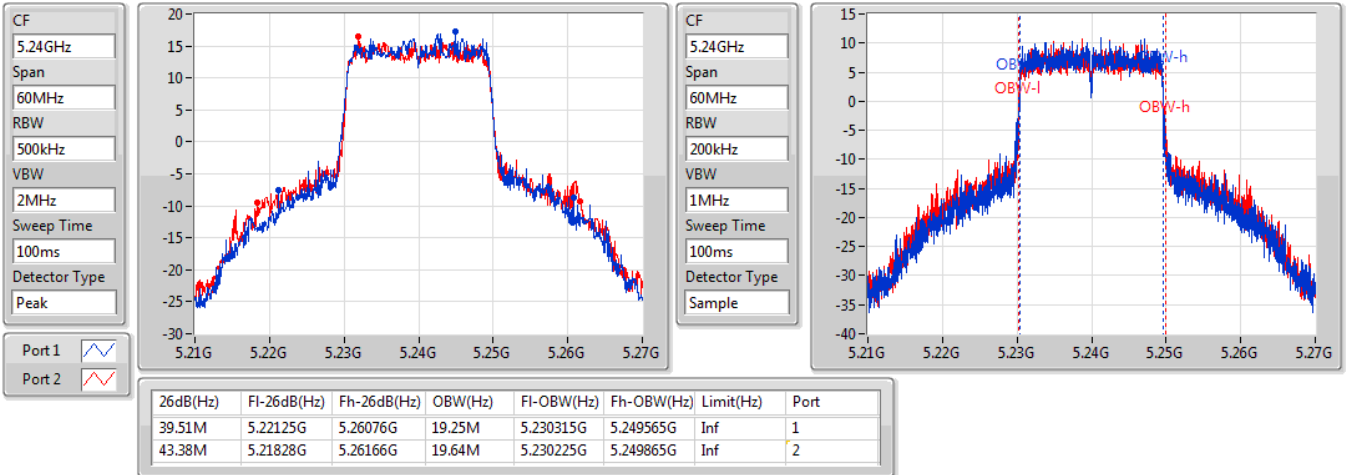
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.45M	5.18449G	5.21794G	19.16M	5.190405G	5.209565G	Inf	1
41.16M	5.18029G	5.22145G	19.22M	5.190405G	5.209625G	Inf	2

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

09/10/2019

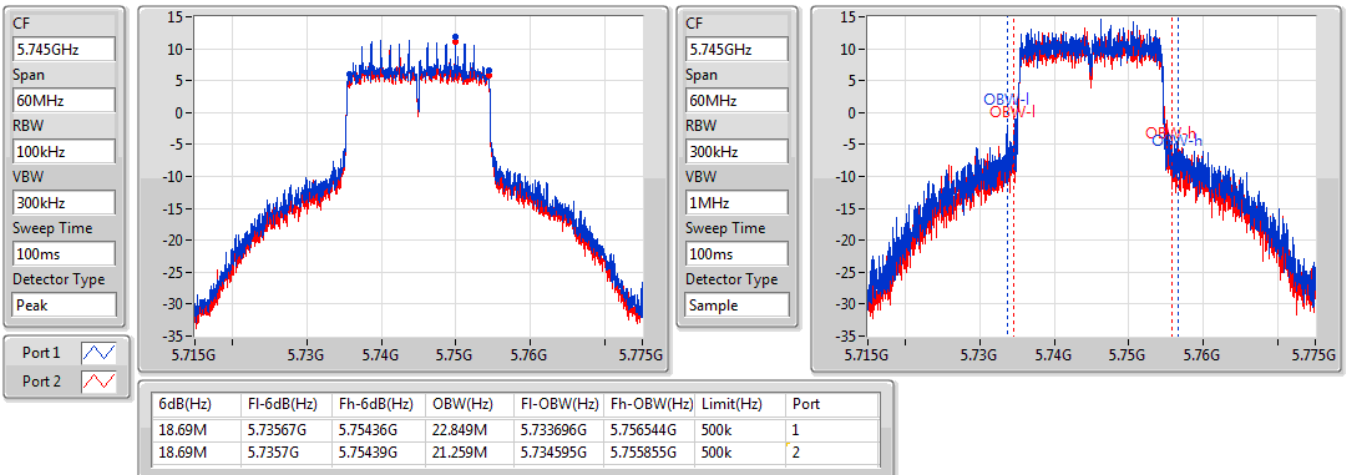


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5745MHz

31/10/2019



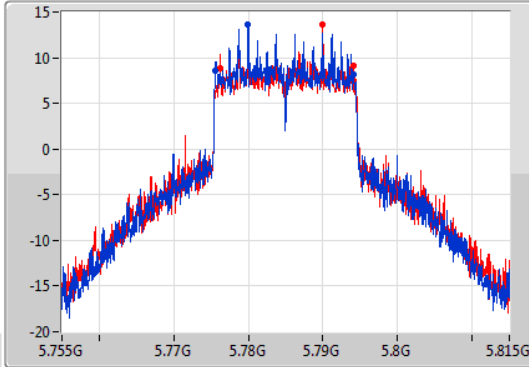
802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

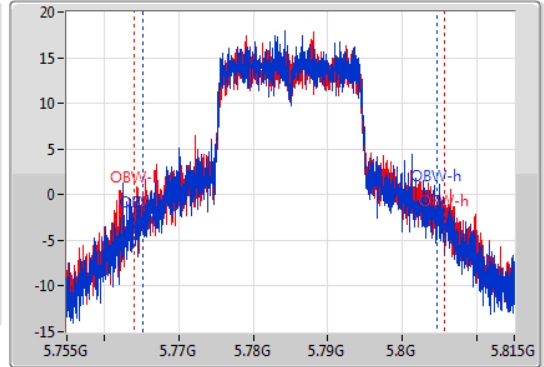
5785MHz

09/10/2019

CF
5.785GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
60MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.57M	5.77555G	5.79412G	39.43M	5.76521G	5.80464G	500k	1
18.03M	5.77615G	5.79418G	41.469M	5.7641G	5.80557G	500k	2

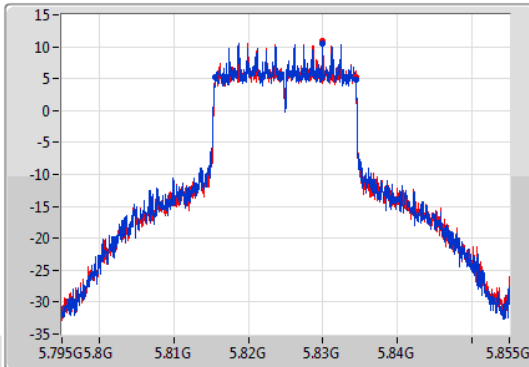
802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

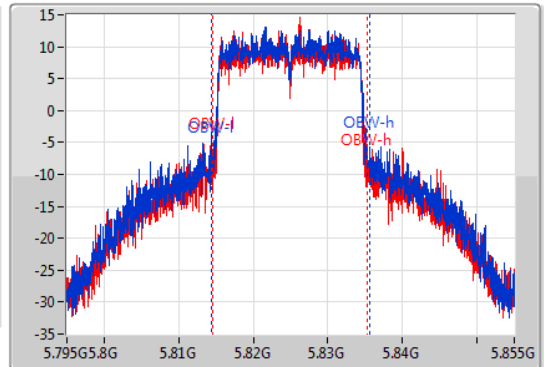
5825MHz

31/10/2019

CF
5.825GHz
Span
60MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.84M	5.81552G	5.83436G	21.229M	5.814325G	5.835555G	500k	1
18.75M	5.81567G	5.83442G	20.69M	5.814595G	5.835285G	500k	2

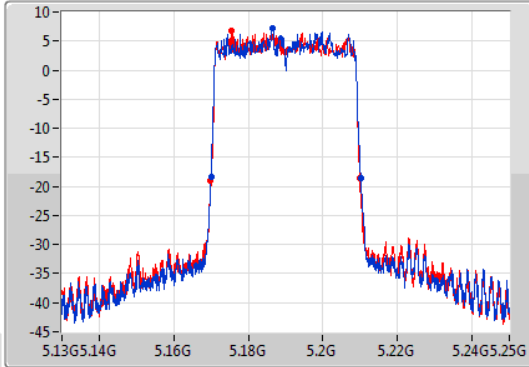
802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

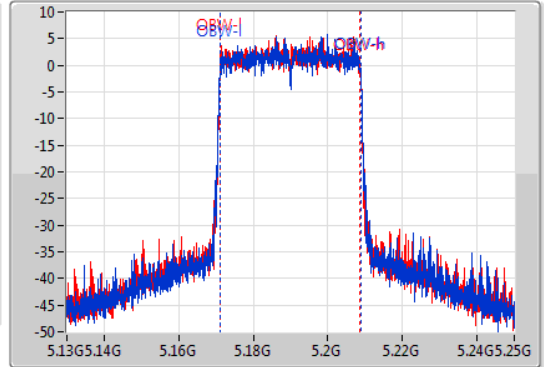
5190MHz

09/10/2019

CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.14M	5.17002G	5.21016G	37.661M	5.171109G	5.208771G	Inf	1
40.02M	5.1699G	5.20992G	37.541M	5.171169G	5.208711G	Inf	2

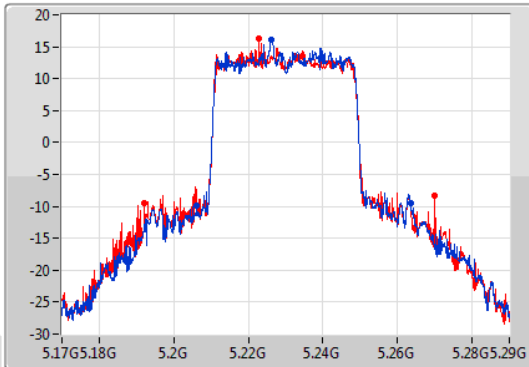
802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

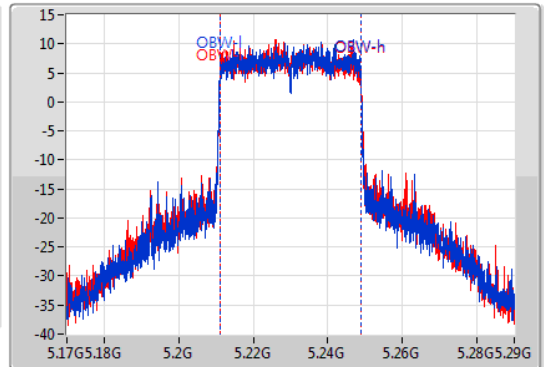
5230MHz

09/10/2019

CF
5.23GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
120MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



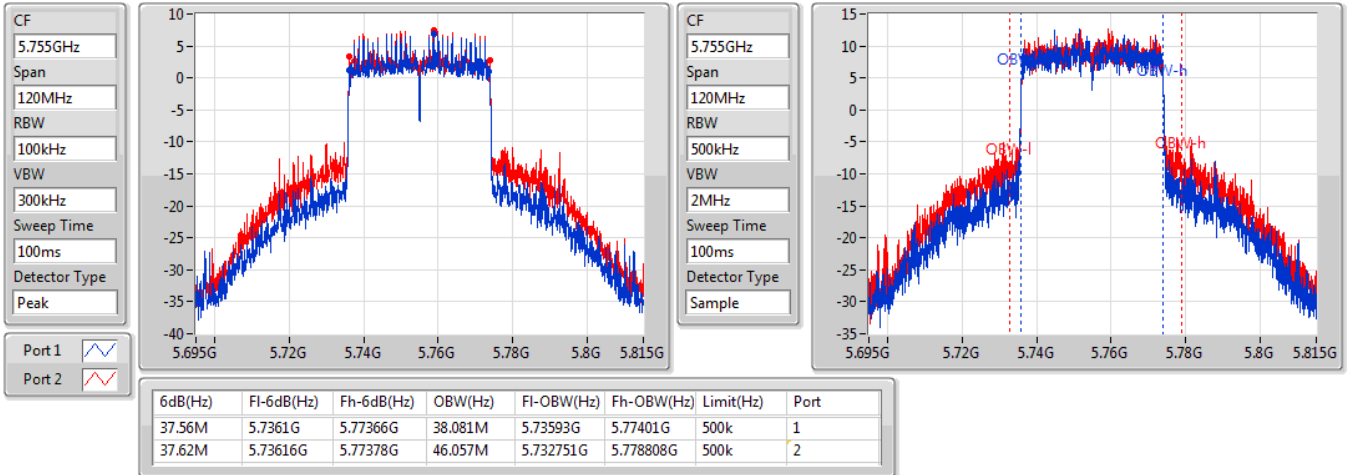
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
57.48M	5.206G	5.26348G	37.781M	5.211049G	5.248831G	Inf	1
77.88M	5.19202G	5.2699G	37.721M	5.211109G	5.248831G	Inf	2

802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5755MHz

09/10/2019

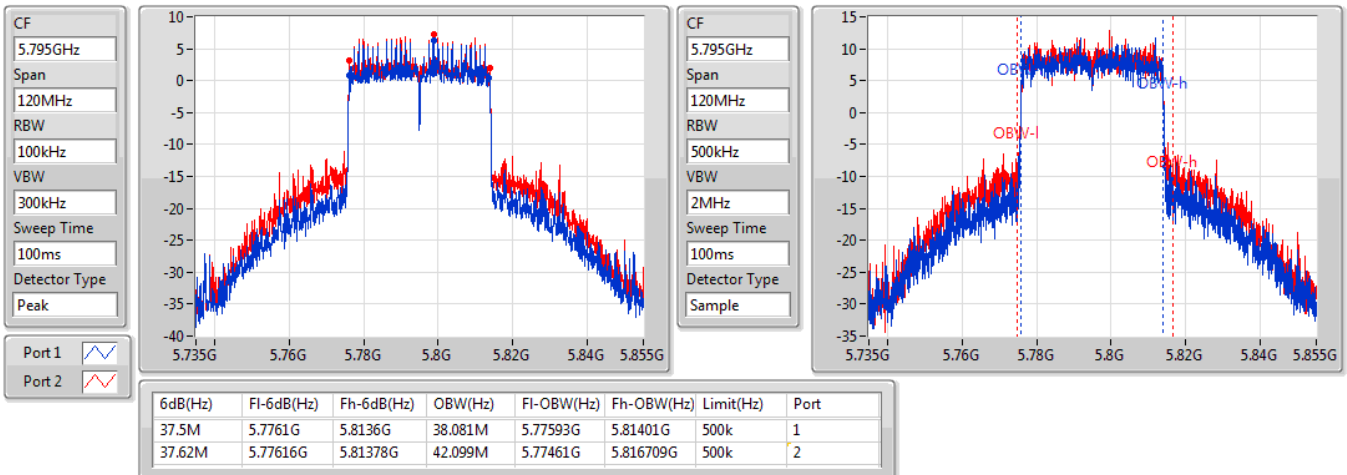


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5795MHz

09/10/2019

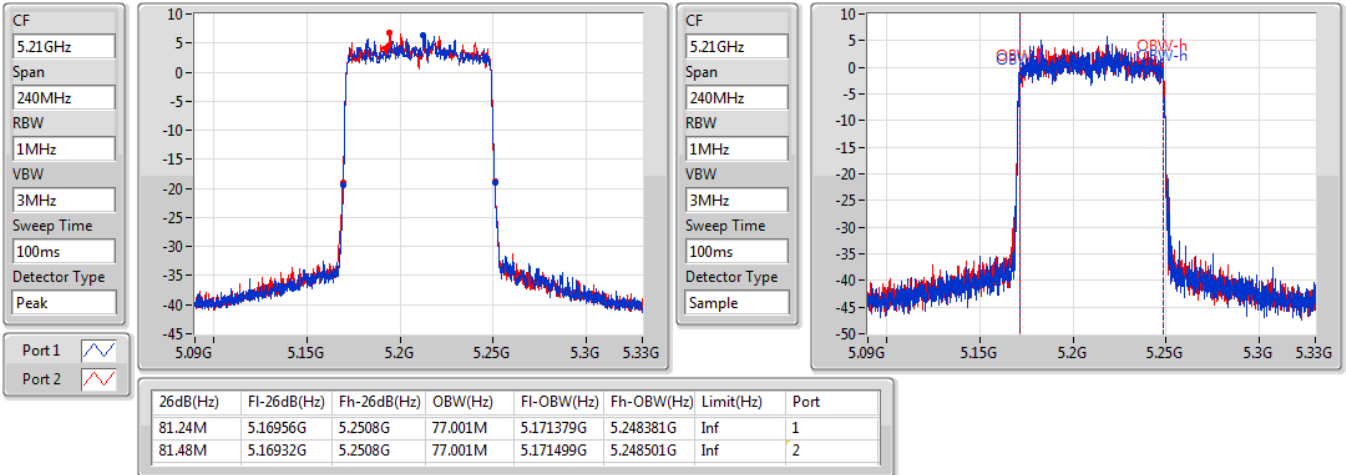


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

09/10/2019

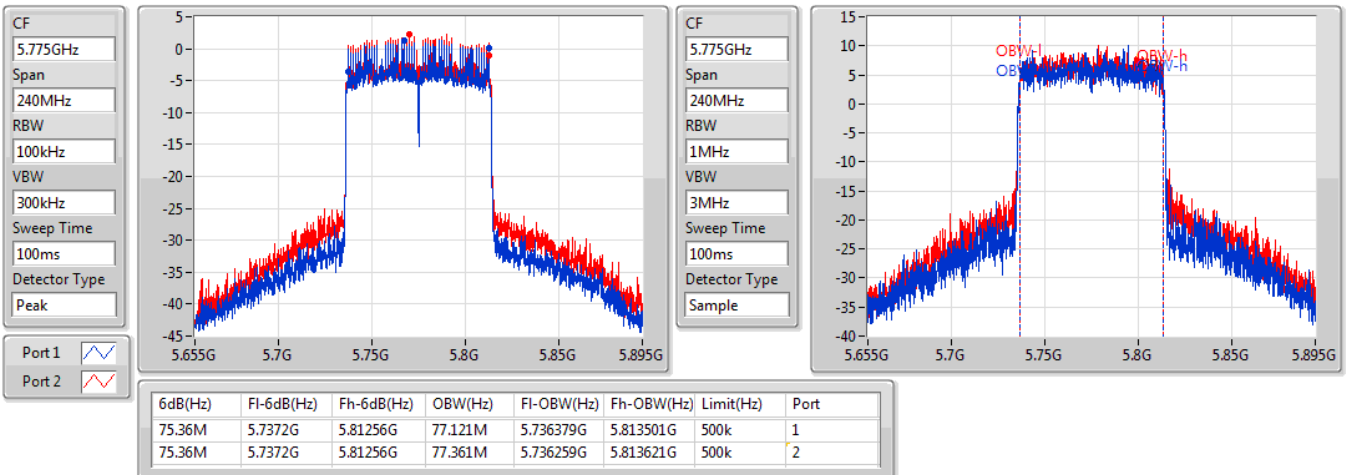


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5775MHz

09/10/2019





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.875M	16.617M	16M6D1D	21.35M	16.442M
802.11ac VHT20_Nss1,(MCS0)_4TX	21.825M	17.791M	17M8D1D	21.475M	17.716M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.4M	36.332M	36M3D1D	39.8M	36.232M
802.11ac VHT80_Nss1,(MCS0)_4TX	82M	75.762M	75M8D1D	81.2M	75.662M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.8M	19.015M	19M0D1D	21.45M	18.966M
802.11ax HEW40_Nss1,(MCS0)_4TX	48.9M	37.731M	37M7D1D	39.8M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.3M	77.261M	77M3D1D	81.3M	76.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	28.511M	28M5D1D	16.25M	19.09M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.575M	20.865M	20M9D1D	17.525M	18.141M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.35M	36.582M	36M6D1D	36.25M	36.182M
802.11ac VHT80_Nss1,(MCS0)_4TX	75.7M	75.762M	75M8D1D	75.1M	75.662M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.875M	33.358M	33M4D1D	18.25M	19.415M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.6M	45.177M	45M2D1D	36.65M	37.631M
802.11ax HEW80_Nss1,(MCS0)_4TX	77M	77.161M	77M2D1D	75.7M	76.962M

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	21.45M	16.567M	21.65M	16.592M	21.65M	16.592M	21.35M	16.442M
5200MHz	Pass	Inf	21.6M	16.592M	21.55M	16.592M	21.875M	16.592M	21.5M	16.567M
5240MHz	Pass	Inf	21.525M	16.592M	21.55M	16.592M	21.775M	16.617M	21.375M	16.592M
5745MHz	Pass	500k	16.3M	20.64M	16.25M	28.511M	16.3M	24.113M	16.325M	19.94M
5785MHz	Pass	500k	16.3M	21.039M	16.3M	27.761M	16.3M	22.564M	16.3M	19.515M
5825MHz	Pass	500k	16.35M	22.489M	16.325M	27.936M	16.3M	22.089M	16.3M	19.09M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.75M	17.791M	21.5M	17.741M	21.475M	17.741M	21.825M	17.716M
5200MHz	Pass	Inf	21.7M	17.766M	21.65M	17.741M	21.475M	17.741M	21.725M	17.741M
5240MHz	Pass	Inf	21.775M	17.791M	21.5M	17.741M	21.6M	17.766M	21.775M	17.741M
5745MHz	Pass	500k	17.55M	19.665M	17.575M	20.865M	17.575M	18.391M	17.525M	18.341M
5785MHz	Pass	500k	17.575M	19.265M	17.525M	19.59M	17.55M	18.291M	17.575M	18.141M
5825MHz	Pass	500k	17.55M	19.89M	17.575M	19.665M	17.525M	18.616M	17.55M	18.241M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.2M	36.282M	39.8M	36.332M	39.95M	36.232M	39.95M	36.232M
5230MHz	Pass	Inf	40.4M	36.232M	40.05M	36.232M	40.05M	36.232M	39.85M	36.232M
5755MHz	Pass	500k	36.3M	36.332M	36.25M	36.282M	36.3M	36.182M	36.3M	36.232M
5795MHz	Pass	500k	36.3M	36.582M	36.3M	36.432M	36.35M	36.532M	36.3M	36.482M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82M	75.662M	81.2M	75.762M	81.4M	75.762M	81.9M	75.662M
5775MHz	Pass	500k	75.4M	75.762M	75.7M	75.762M	75.1M	75.662M	75.1M	75.662M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.575M	18.966M	21.65M	18.991M	21.8M	18.966M	21.625M	18.991M
5200MHz	Pass	Inf	21.5M	18.966M	21.45M	18.991M	21.8M	18.966M	21.725M	18.991M
5240MHz	Pass	Inf	21.75M	18.966M	21.525M	18.991M	21.75M	19.015M	21.675M	19.015M
5745MHz	Pass	500k	18.8M	21.664M	18.7M	28.686M	18.525M	24.013M	18.7M	19.415M
5785MHz	Pass	500k	18.875M	24.063M	18.25M	30.085M	18.525M	24.713M	18.675M	19.54M
5825MHz	Pass	500k	18.8M	27.461M	18.65M	33.358M	18.525M	25.362M	18.65M	21.864M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.531M	39.8M	37.531M	40.05M	37.631M	40.1M	37.531M
5230MHz	Pass	Inf	43.35M	37.581M	48.9M	37.731M	40M	37.531M	40.1M	37.481M
5755MHz	Pass	500k	37.2M	37.731M	37.6M	37.931M	37.55M	37.631M	36.65M	37.681M
5795MHz	Pass	500k	37.5M	38.081M	37.5M	45.177M	37.5M	37.931M	37.55M	37.781M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.3M	77.261M	82M	77.061M	81.3M	76.762M	81.8M	76.762M
5775MHz	Pass	500k	77M	77.161M	75.7M	77.161M	75.8M	76.962M	76.8M	76.962M

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

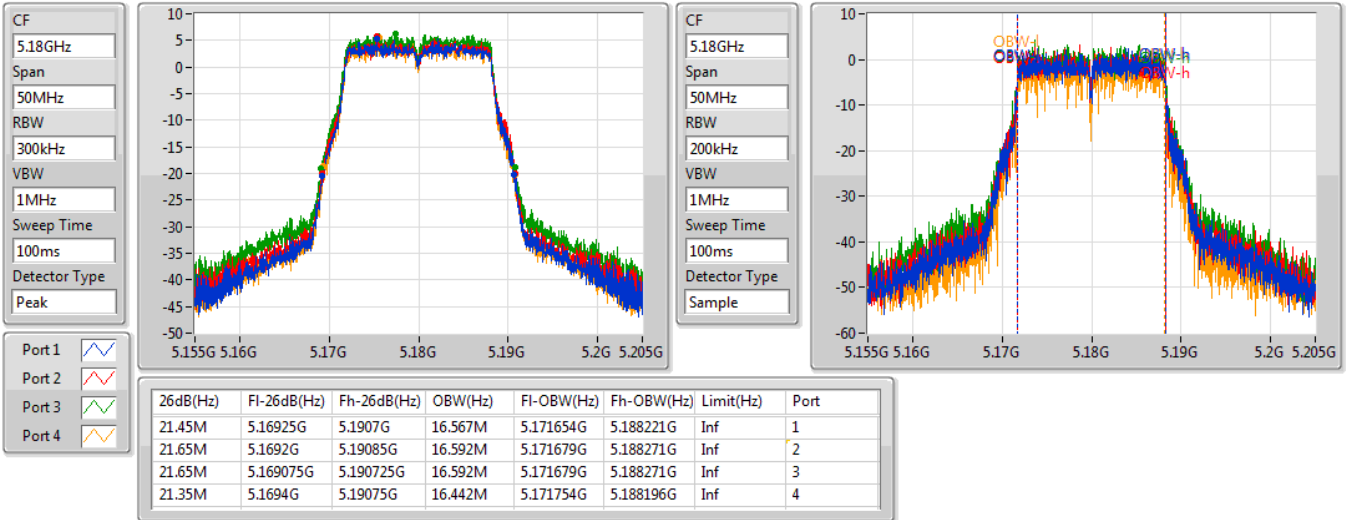
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

5180MHz

09/10/2019

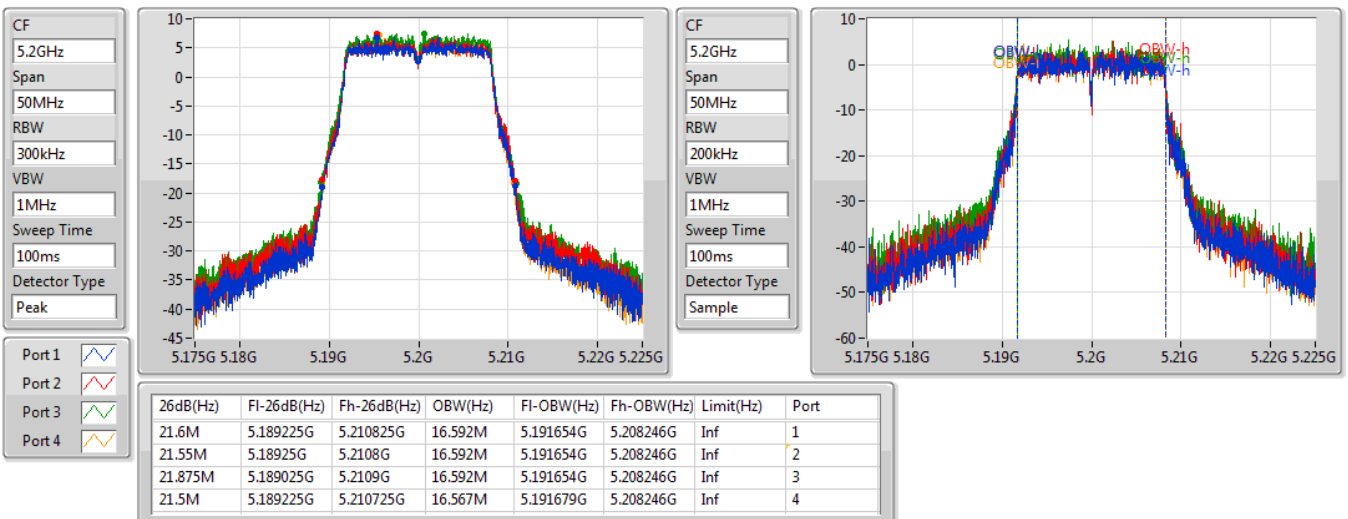


802.11a_Nss1,(6Mbps)_4TX

EBW

5200MHz

09/10/2019



802.11a_Nss1,(6Mbps)_4TX

EBW

5240MHz

09/10/2019

CF
5.24GHz

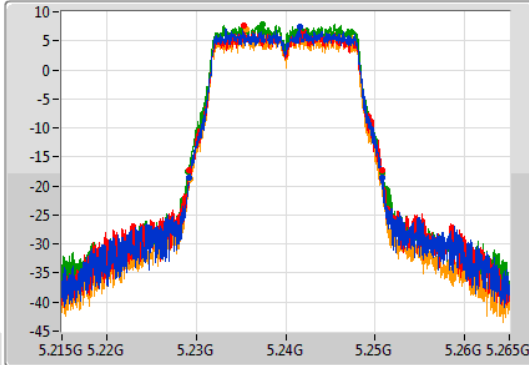
Span
50MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Peak



CF
5.24GHz

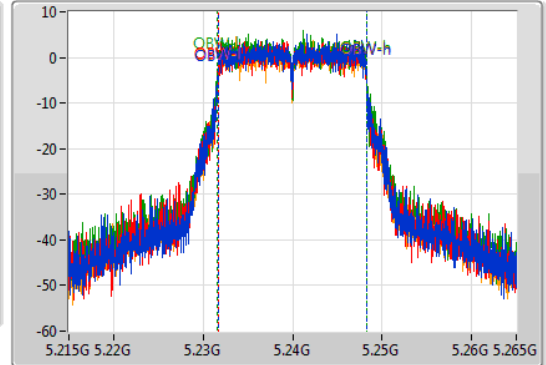
Span
50MHz

RBW
200kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



Port 1

Port 2

Port 3

Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.525M	5.22925G	5.250775G	16.592M	5.231654G	5.248246G	Inf	1
21.55M	5.229225G	5.250775G	16.592M	5.231654G	5.248246G	Inf	2
21.775M	5.229075G	5.25085G	16.617M	5.231629G	5.248246G	Inf	3
21.375M	5.22935G	5.250725G	16.592M	5.231654G	5.248246G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

09/10/2019

CF
5.745GHz

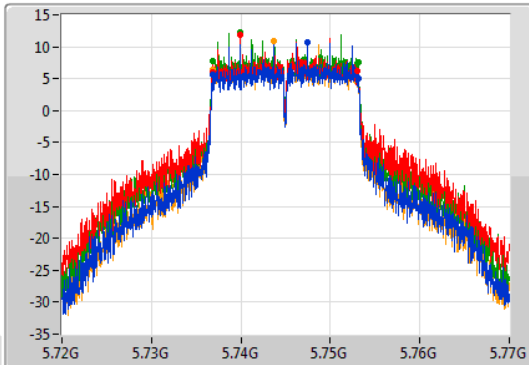
Span
50MHz

RBW
100kHz

VBW
300kHz

Sweep Time
100ms

Detector Type
Peak



CF
5.745GHz

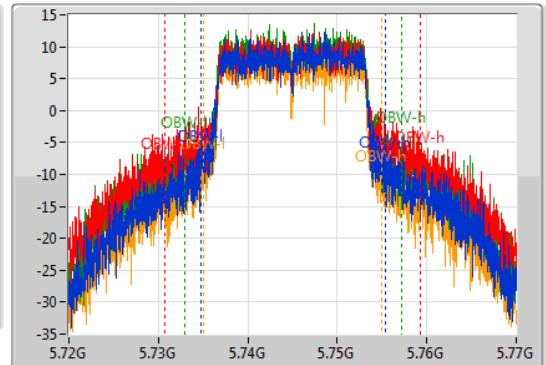
Span
50MHz

RBW
300kHz

VBW
1MHz

Sweep Time
100ms

Detector Type
Sample



Port 1

Port 2

Port 3

Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	5.736825G	5.753125G	20.64M	5.73478G	5.75542G	500k	1
16.25M	5.7368G	5.75305G	28.511M	5.730757G	5.759268G	500k	2
16.3M	5.7368G	5.7531G	24.113M	5.733006G	5.757119G	500k	3
16.325M	5.7368G	5.753125G	19.94M	5.735005G	5.754945G	500k	4

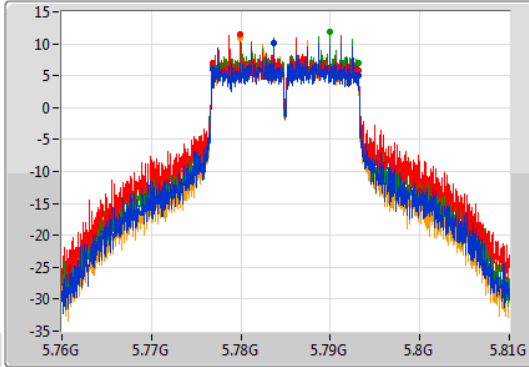
802.11a_Nss1,(6Mbps)_4TX

EBW

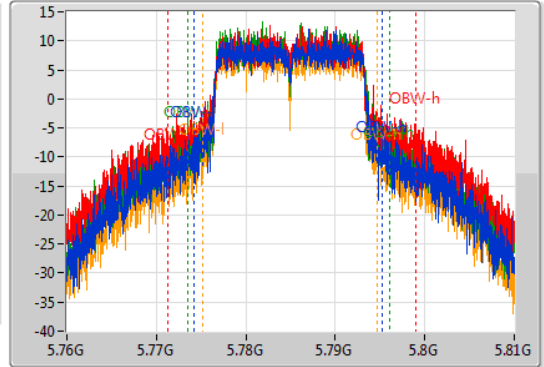
5785MHz

09/10/2019

CF
5.785GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	5.7768G	5.7931G	21.039M	5.774255G	5.795295G	500k	1
16.3M	5.7768G	5.7931G	27.761M	5.771282G	5.799043G	500k	2
16.3M	5.7768G	5.7931G	22.564M	5.773531G	5.796094G	500k	3
16.3M	5.7768G	5.7931G	19.515M	5.77518G	5.794695G	500k	4

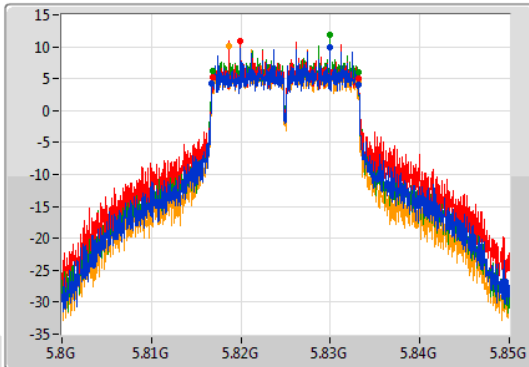
802.11a_Nss1,(6Mbps)_4TX

EBW

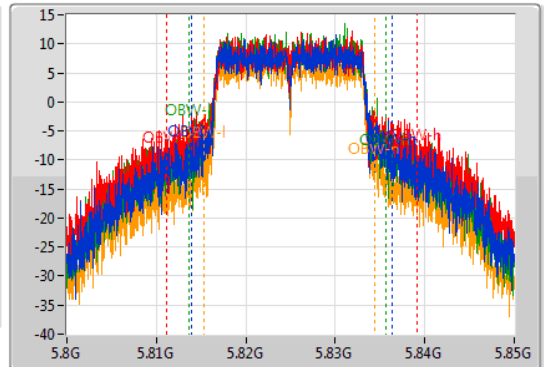
5825MHz

09/10/2019

CF
5.825GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.816775G	5.833125G	22.489M	5.813881G	5.836369G	500k	1
16.325M	5.8168G	5.833125G	27.936M	5.811182G	5.839118G	500k	2
16.3M	5.8168G	5.8331G	22.089M	5.813606G	5.835695G	500k	3
16.3M	5.8168G	5.8331G	19.09M	5.81533G	5.83442G	500k	4

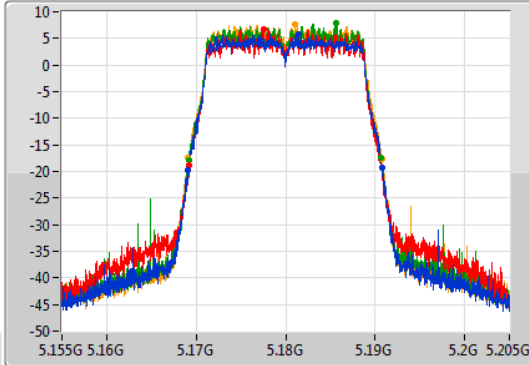
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

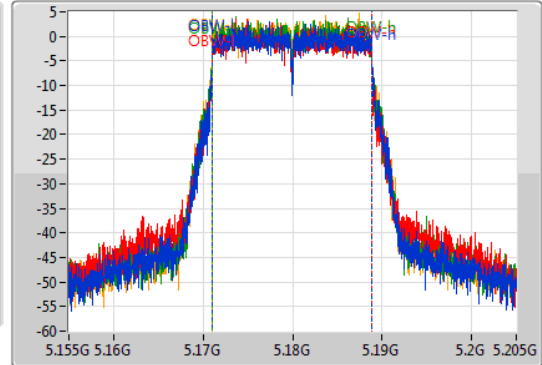
5180MHz

31/10/2019

CF
5.18GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.169075G	5.190825G	17.791M	5.171054G	5.188846G	Inf	1
21.5M	5.169225G	5.190725G	17.741M	5.171054G	5.188796G	Inf	2
21.475M	5.16915G	5.190625G	17.741M	5.171079G	5.188821G	Inf	3
21.825M	5.169G	5.190825G	17.716M	5.171079G	5.188796G	Inf	4

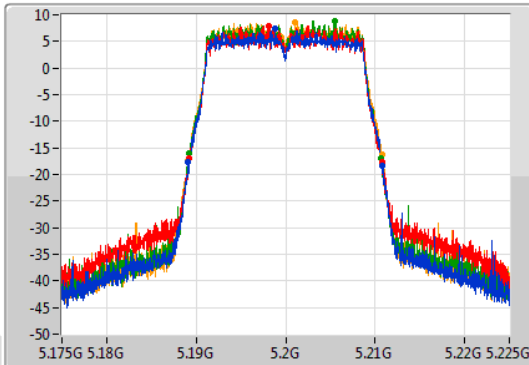
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

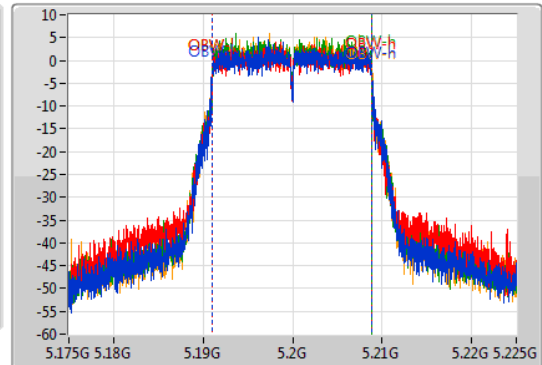
5200MHz

31/10/2019

CF
5.2GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.7M	5.189125G	5.210825G	17.766M	5.191079G	5.208846G	Inf	1
21.65M	5.189175G	5.210825G	17.741M	5.191079G	5.208821G	Inf	2
21.475M	5.189175G	5.21065G	17.741M	5.191079G	5.208821G	Inf	3
21.725M	5.189075G	5.2108G	17.741M	5.191079G	5.208821G	Inf	4

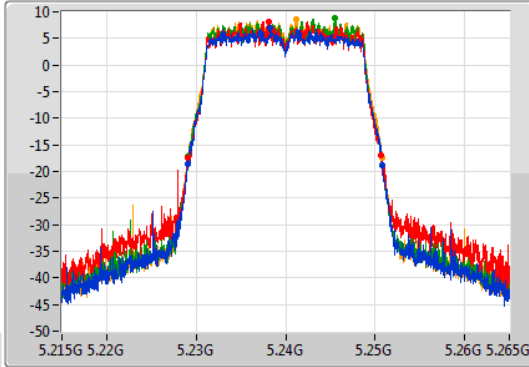
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

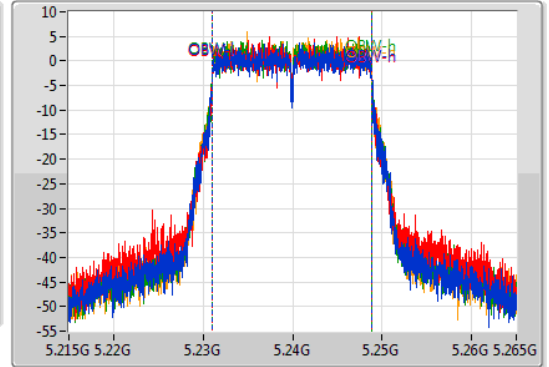
5240MHz

31/10/2019

CF
5.24GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.24GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.775M	5.22905G	5.250825G	17.791M	5.231054G	5.248846G	Inf	1
21.5M	5.229125G	5.250625G	17.741M	5.231079G	5.248821G	Inf	2
21.6M	5.2291G	5.2507G	17.766M	5.231054G	5.248821G	Inf	3
21.775M	5.229075G	5.25085G	17.741M	5.231079G	5.248821G	Inf	4

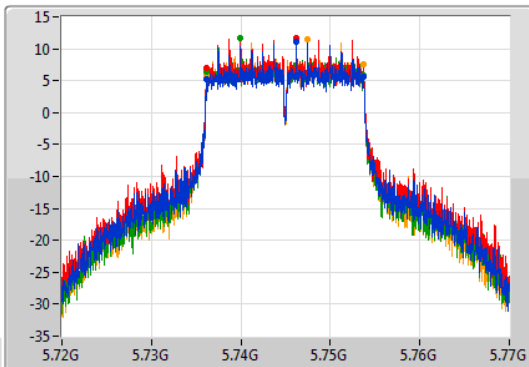
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

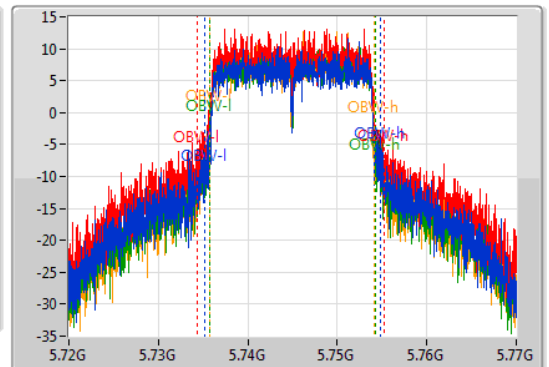
5745MHz

30/10/2019

CF
5.745GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.745GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.736175G	5.753725G	19.665M	5.735155G	5.75482G	500k	1
17.575M	5.736175G	5.75375G	20.865M	5.73438G	5.755245G	500k	2
17.575M	5.736175G	5.75375G	18.391M	5.735805G	5.754195G	500k	3
17.525M	5.736175G	5.7537G	18.341M	5.73573G	5.75407G	500k	4

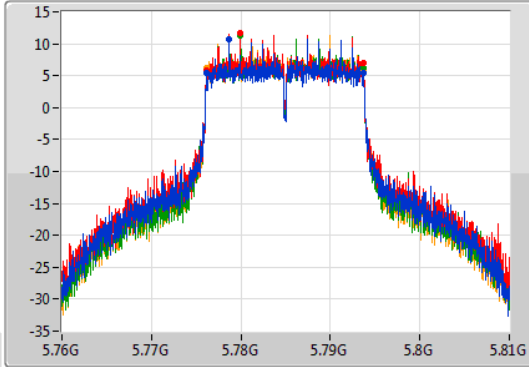
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

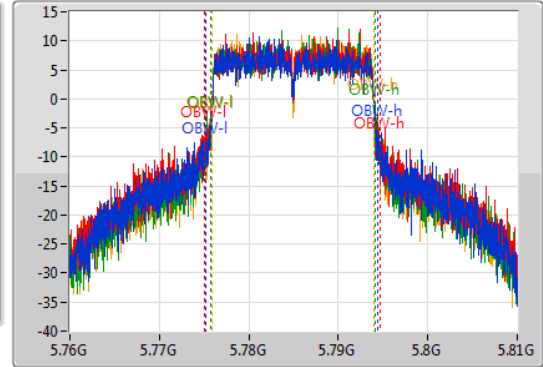
5785MHz

30/10/2019

CF
5.785GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.77615G	5.793725G	19.265M	5.775205G	5.79447G	500k	1
17.525M	5.776175G	5.7937G	19.59M	5.775055G	5.794645G	500k	2
17.55M	5.776175G	5.793725G	18.291M	5.775805G	5.794095G	500k	3
17.575M	5.77615G	5.793725G	18.141M	5.77588G	5.79402G	500k	4

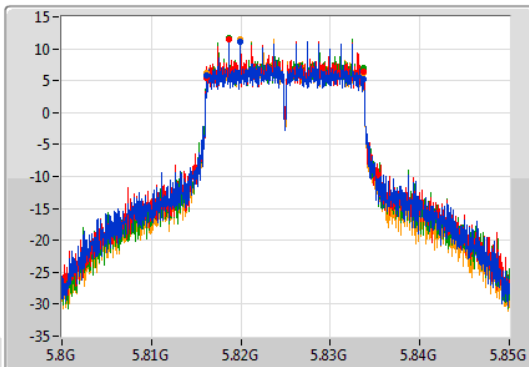
802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

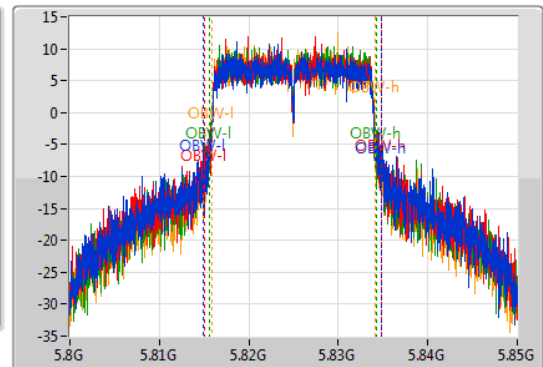
5825MHz

30/10/2019

CF
5.825GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.816175G	5.833725G	19.89M	5.814955G	5.834845G	500k	1
17.575M	5.81615G	5.833725G	19.665M	5.815105G	5.83477G	500k	2
17.525M	5.816175G	5.8337G	18.616M	5.815605G	5.83422G	500k	3
17.55M	5.81615G	5.8337G	18.241M	5.81583G	5.83407G	500k	4

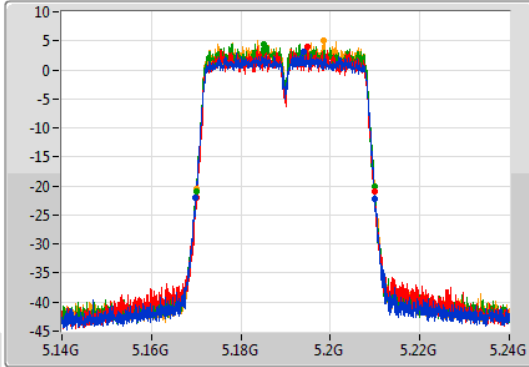
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

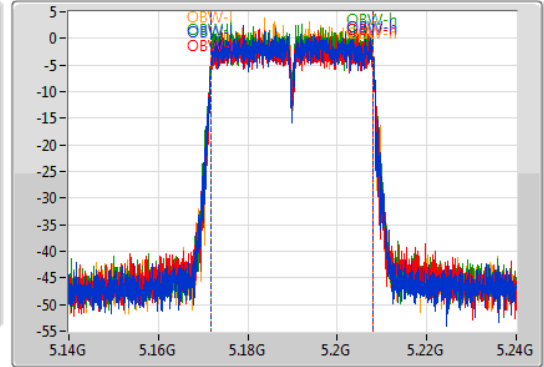
5190MHz

31/10/2019

CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.2M	5.1698G	5.21G	36.282M	5.171809G	5.208091G	Inf	1
39.8M	5.1701G	5.2099G	36.332M	5.171759G	5.208091G	Inf	2
39.95M	5.16995G	5.2099G	36.232M	5.171809G	5.208041G	Inf	3
39.95M	5.17005G	5.21G	36.232M	5.171809G	5.208041G	Inf	4

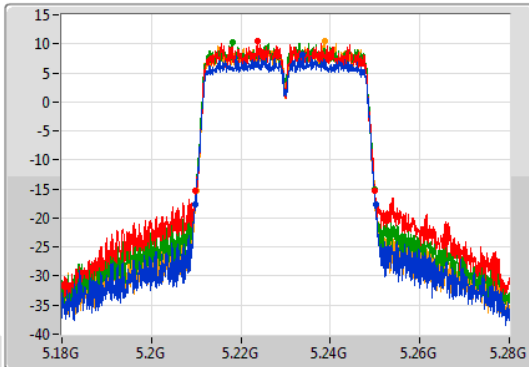
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

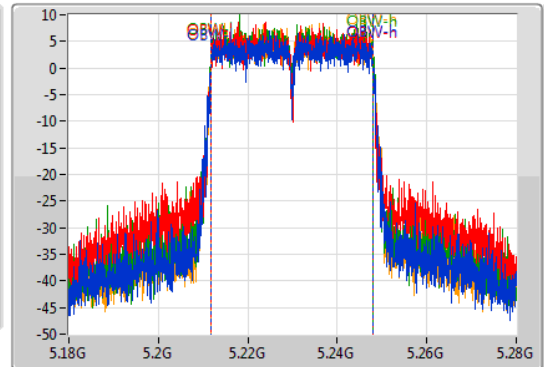
5230MHz

31/10/2019

CF
5.23GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.4M	5.2097G	5.2501G	36.232M	5.211809G	5.248041G	Inf	1
40.05M	5.2099G	5.24995G	36.232M	5.211809G	5.248041G	Inf	2
40.05M	5.2099G	5.24995G	36.232M	5.211809G	5.248041G	Inf	3
39.85M	5.2101G	5.24995G	36.232M	5.211809G	5.248041G	Inf	4

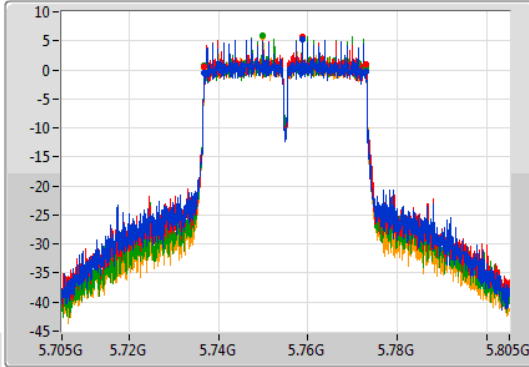
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

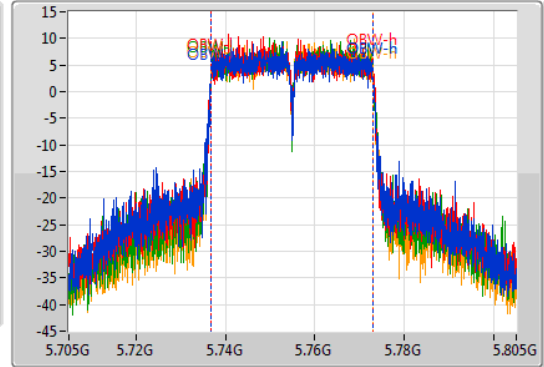
5755MHz

30/10/2019

CF
5.755GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.7368G	5.7731G	36.332M	5.736709G	5.773041G	500k	1
36.25M	5.7368G	5.77305G	36.282M	5.736809G	5.773091G	500k	2
36.3M	5.7368G	5.7731G	36.182M	5.736859G	5.773041G	500k	3
36.3M	5.7368G	5.7731G	36.232M	5.736809G	5.773041G	500k	4

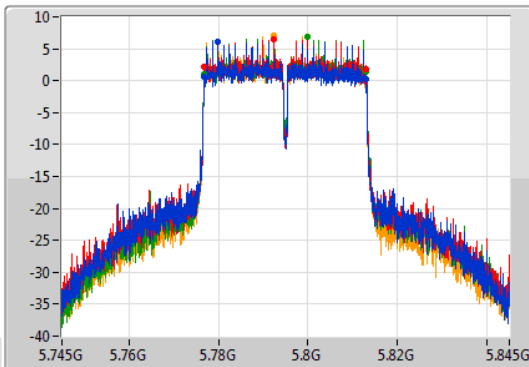
802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

30/10/2019

CF
5.795GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.7768G	5.8131G	36.582M	5.776559G	5.813141G	500k	1
36.3M	5.7768G	5.8131G	36.432M	5.776709G	5.813141G	500k	2
36.35M	5.77675G	5.8131G	36.532M	5.776659G	5.813191G	500k	3
36.3M	5.7768G	5.8131G	36.482M	5.776709G	5.813191G	500k	4

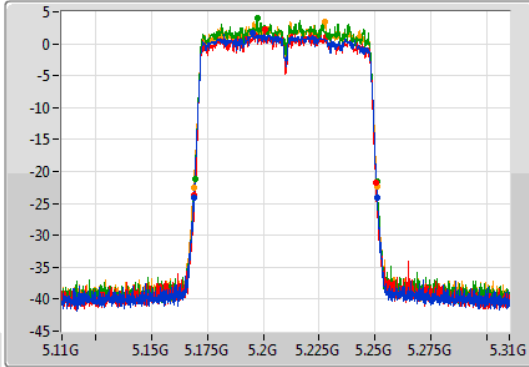
802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5210MHz

31/10/2019

CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82M	5.1689G	5.2509G	75.662M	5.172119G	5.247781G	Inf	1
81.2M	5.1693G	5.2505G	75.762M	5.172019G	5.247781G	Inf	2
81.4M	5.1694G	5.2508G	75.762M	5.172019G	5.247781G	Inf	3
81.9M	5.1689G	5.2508G	75.662M	5.172119G	5.247781G	Inf	4

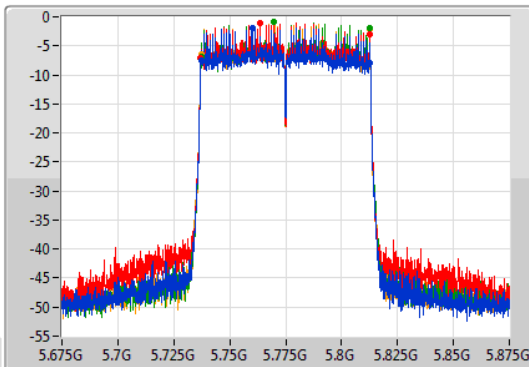
802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

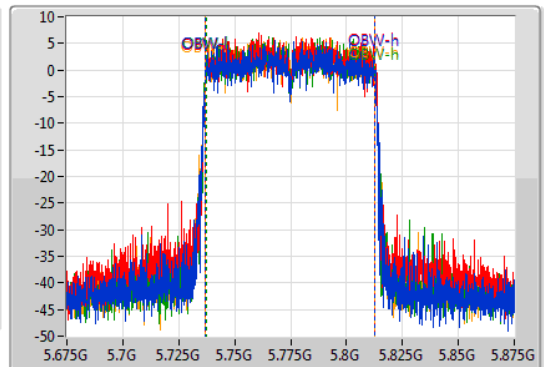
5775MHz

30/10/2019

CF
5.775GHz
Span
200MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.4M	5.7372G	5.8126G	75.762M	5.737019G	5.812781G	500k	1
75.7M	5.7368G	5.8125G	75.762M	5.737019G	5.812781G	500k	2
75.1M	5.7374G	5.8125G	75.662M	5.737119G	5.812781G	500k	3
75.1M	5.7374G	5.8125G	75.662M	5.737019G	5.812681G	500k	4

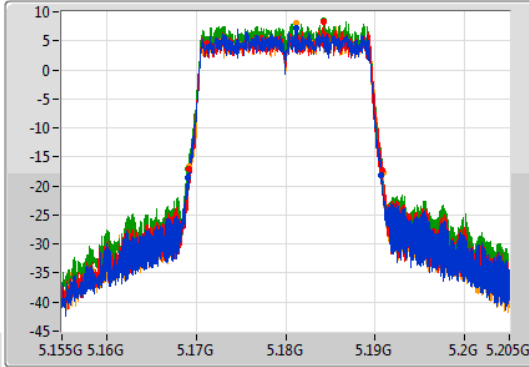
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

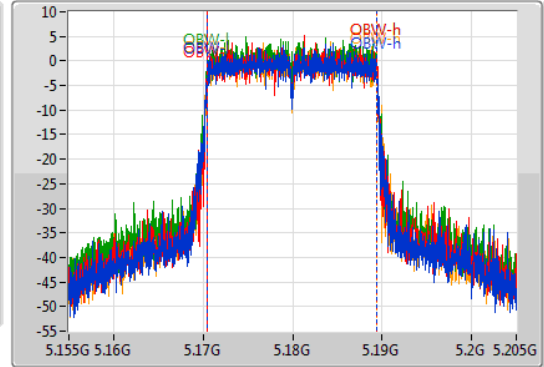
5180MHz

09/10/2019

CF
5.18GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.18GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.575M	5.1691G	5.190675G	18.966M	5.170455G	5.18942G	Inf	1
21.65M	5.169175G	5.190825G	18.991M	5.170455G	5.189445G	Inf	2
21.8M	5.169025G	5.190825G	18.966M	5.170455G	5.18942G	Inf	3
21.625M	5.169275G	5.1909G	18.991M	5.170455G	5.189445G	Inf	4

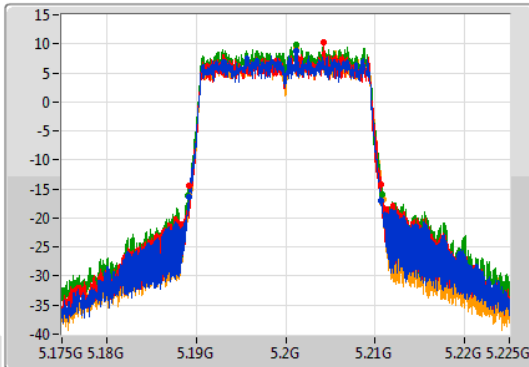
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

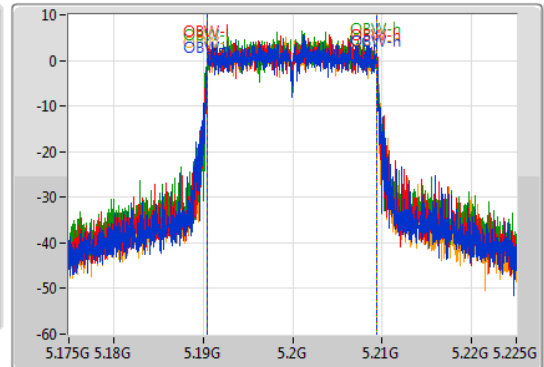
5200MHz

09/10/2019

CF
5.2GHz
Span
50MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.2GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.5M	5.189175G	5.210675G	18.966M	5.190455G	5.20942G	Inf	1
21.45M	5.189225G	5.210675G	18.991M	5.19048G	5.20947G	Inf	2
21.8M	5.189025G	5.210825G	18.966M	5.190455G	5.20942G	Inf	3
21.725M	5.1892G	5.210925G	18.991M	5.190455G	5.209445G	Inf	4

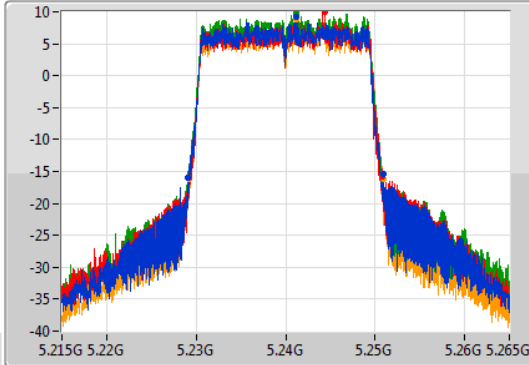
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

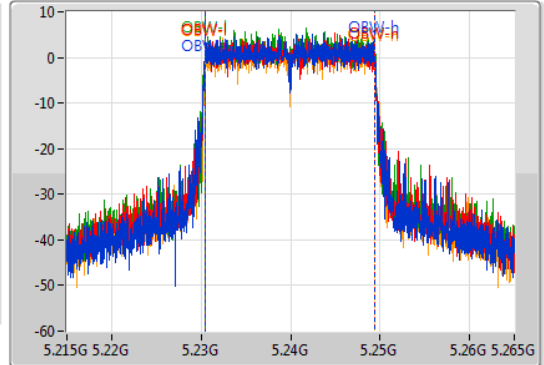
5240MHz

09/10/2019

CF: 5.24GHz
 Span: 50MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 50MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1
 Port 2
 Port 3
 Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.229125G	5.250875G	18.966M	5.230455G	5.24942G	Inf	1
21.525M	5.22925G	5.250775G	18.991M	5.23043G	5.24942G	Inf	2
21.75M	5.22905G	5.2508G	19.015M	5.23043G	5.249445G	Inf	3
21.675M	5.229225G	5.2509G	19.015M	5.230455G	5.24947G	Inf	4

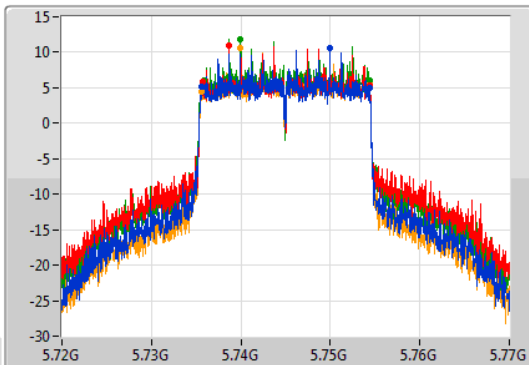
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

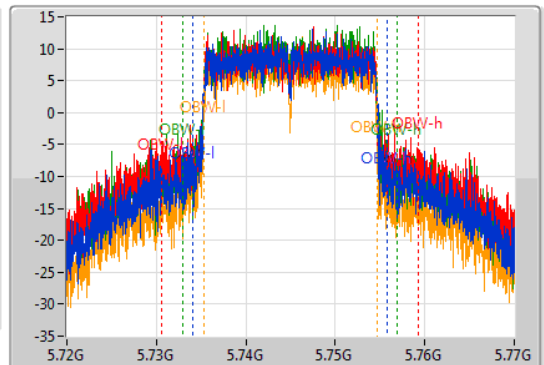
5745MHz

09/10/2019

CF: 5.745GHz
 Span: 50MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.745GHz
 Span: 50MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1
 Port 2
 Port 3
 Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.8M	5.735575G	5.754375G	21.664M	5.734105G	5.75577G	500k	1
18.7M	5.7357G	5.7544G	28.686M	5.730632G	5.759318G	500k	2
18.525M	5.73585G	5.754375G	24.013M	5.732956G	5.756969G	500k	3
18.7M	5.73565G	5.75435G	19.415M	5.735255G	5.75467G	500k	4

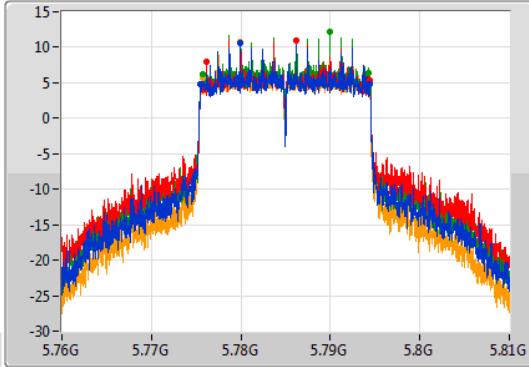
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

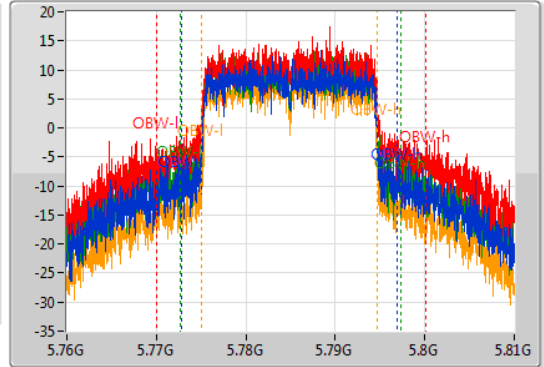
5785MHz

09/10/2019

CF
5.785GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
50MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.875M	5.775525G	5.7944G	24.063M	5.772781G	5.796844G	500k	1
18.25M	5.776175G	5.794425G	30.085M	5.770032G	5.800117G	500k	2
18.525M	5.7758G	5.794325G	24.713M	5.772631G	5.797344G	500k	3
18.675M	5.775725G	5.7944G	19.54M	5.775105G	5.794645G	500k	4

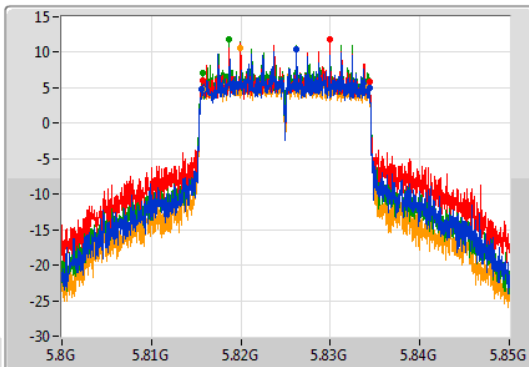
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

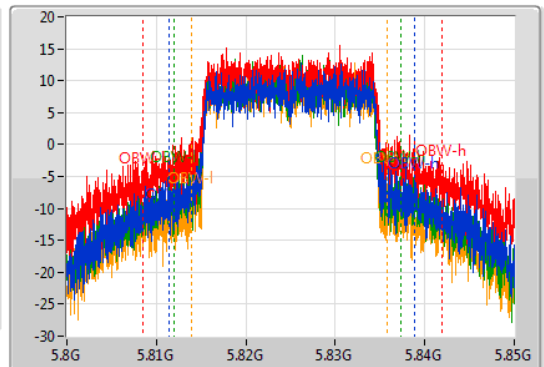
5825MHz

09/10/2019

CF
5.825GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
50MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.8M	5.8156G	5.8344G	27.461M	5.811457G	5.838918G	500k	1
18.65M	5.815725G	5.834375G	33.358M	5.808508G	5.841867G	500k	2
18.525M	5.815725G	5.83425G	25.362M	5.811982G	5.837344G	500k	3
18.65M	5.815675G	5.834325G	21.864M	5.813906G	5.83577G	500k	4

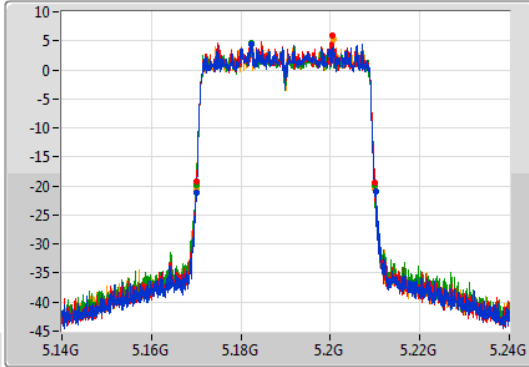
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

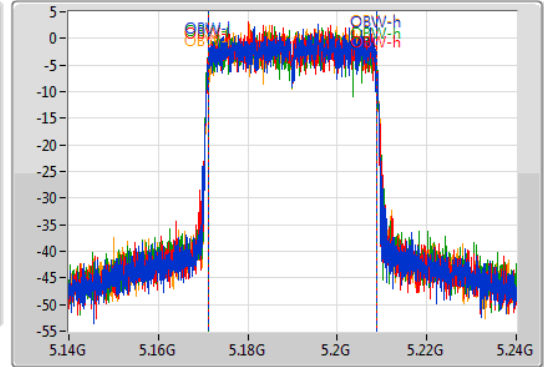
5190MHz

09/10/2019

CF: 5.19GHz
 Span: 100MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.19GHz
 Span: 100MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.15M	5.17G	5.21015G	37.531M	5.171159G	5.208691G	Inf	1
39.8M	5.17015G	5.20995G	37.531M	5.171259G	5.208791G	Inf	2
40.05M	5.16995G	5.21G	37.631M	5.171109G	5.208741G	Inf	3
40.1M	5.16995G	5.21005G	37.531M	5.171159G	5.208691G	Inf	4

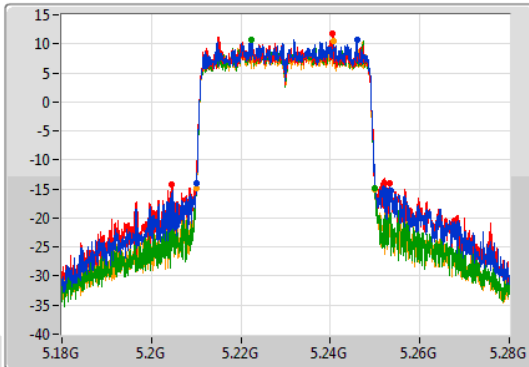
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

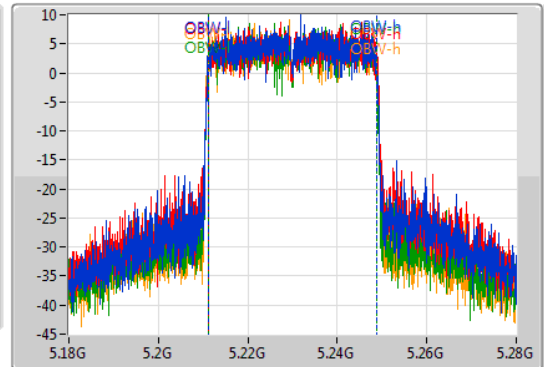
5230MHz

09/10/2019

CF: 5.23GHz
 Span: 100MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.23GHz
 Span: 100MHz
 RBW: 500kHz
 VBW: 2MHz
 Sweep Time: 100ms
 Detector Type: Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.35M	5.21005G	5.2534G	37.581M	5.211109G	5.248691G	Inf	1
48.9M	5.2044G	5.2533G	37.731M	5.211109G	5.248841G	Inf	2
40M	5.20995G	5.24995G	37.531M	5.211159G	5.248691G	Inf	3
40.1M	5.20995G	5.25005G	37.481M	5.211209G	5.248691G	Inf	4

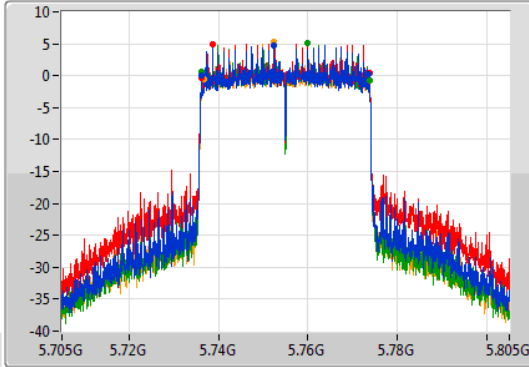
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

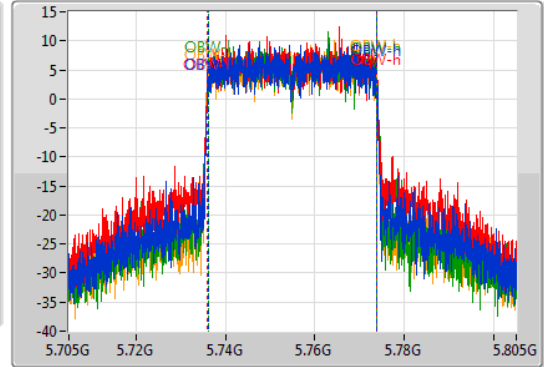
5755MHz

09/10/2019

CF
5.755GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.755GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.2M	5.7362G	5.7734G	37.731M	5.736059G	5.773791G	500k	1
37.6M	5.73615G	5.77375G	37.931M	5.736009G	5.773941G	500k	2
37.55M	5.7362G	5.77375G	37.631M	5.736109G	5.773741G	500k	3
36.65M	5.7368G	5.77345G	37.681M	5.736109G	5.773791G	500k	4

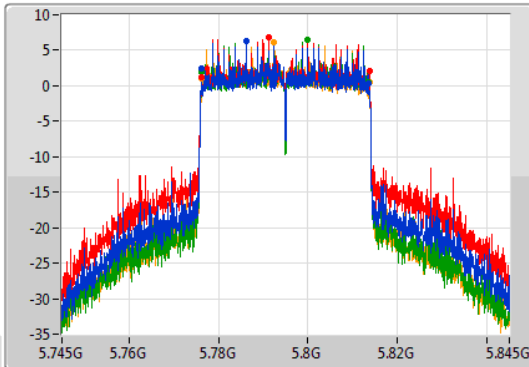
802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

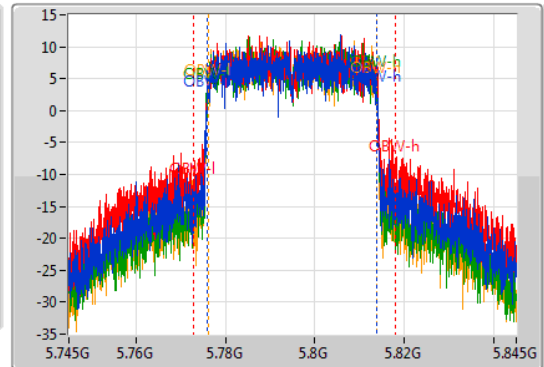
5795MHz

09/10/2019

CF
5.795GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.795GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.5M	5.77615G	5.81365G	38.081M	5.77586G	5.813941G	500k	1
37.5M	5.77625G	5.81375G	45.177M	5.772811G	5.817989G	500k	2
37.5M	5.77615G	5.81365G	37.931M	5.77596G	5.813891G	500k	3
37.55M	5.77615G	5.8137G	37.781M	5.776059G	5.813841G	500k	4

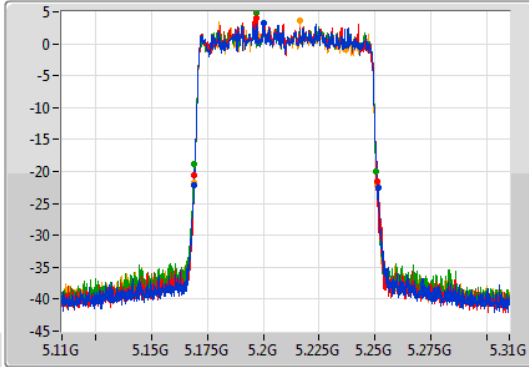
802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

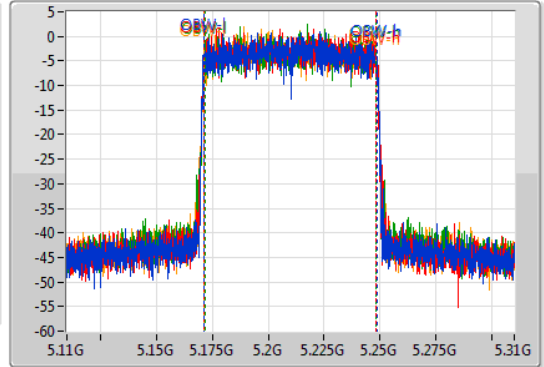
5210MHz

09/10/2019

CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.21GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.3M	5.1691G	5.2514G	77.261M	5.171219G	5.248481G	Inf	1
82M	5.1692G	5.2512G	77.061M	5.171319G	5.248381G	Inf	2
81.3M	5.1693G	5.2506G	76.762M	5.171619G	5.248381G	Inf	3
81.8M	5.1692G	5.251G	76.762M	5.171519G	5.248281G	Inf	4

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

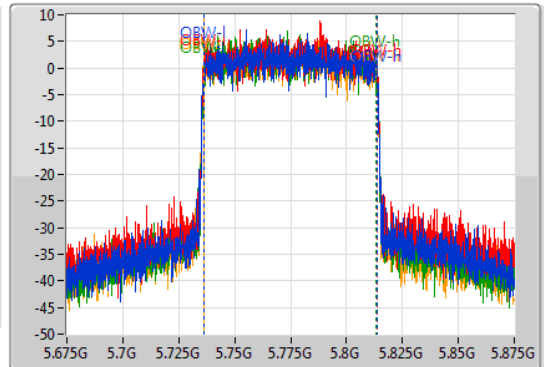
5775MHz

09/10/2019

CF
5.775GHz
Span
200MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.775GHz
Span
200MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
77M	5.7365G	5.8135G	77.161M	5.736319G	5.813481G	500k	1
75.7M	5.7369G	5.8126G	77.161M	5.736319G	5.813481G	500k	2
75.8M	5.7373G	5.8131G	76.962M	5.736319G	5.813281G	500k	3
76.8M	5.7362G	5.813G	76.962M	5.736319G	5.813281G	500k	4



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.8M	17.791M	17M8D1D	21.4M	17.741M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	40.4M	36.232M	36M2D1D	39.75M	36.182M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	82M	75.662M	75M7D1D	81.3M	75.662M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	21.825M	19.015M	19M0D1D	21.35M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	40.2M	37.631M	37M6D1D	39.85M	37.481M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	82.2M	77.161M	77M2D1D	81.2M	76.962M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.6M	17.791M	17M8D1D	17.55M	17.716M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	36.35M	36.282M	36M3D1D	36.3M	36.182M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	75.5M	75.862M	75M9D1D	75.1M	75.562M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19M	19.04M	19M0D1D	18.8M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.5M	37.681M	37M7D1D	36.25M	37.531M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.7M	77.361M	77M4D1D	76.3M	77.061M

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)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.6M	17.741M	21.725M	17.741M	21.45M	17.791M	21.625M	17.766M
5200MHz	Pass	Inf	21.625M	17.741M	21.725M	17.766M	21.4M	17.766M	21.775M	17.741M
5240MHz	Pass	Inf	21.55M	17.766M	21.8M	17.766M	21.425M	17.766M	21.725M	17.741M
5745MHz	Pass	500k	17.55M	17.766M	17.575M	17.741M	17.575M	17.766M	17.55M	17.791M
5785MHz	Pass	500k	17.6M	17.791M	17.6M	17.766M	17.575M	17.741M	17.6M	17.766M
5825MHz	Pass	500k	17.55M	17.766M	17.6M	17.741M	17.6M	17.791M	17.55M	17.716M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.9M	36.232M	40.3M	36.232M	40.1M	36.232M	39.75M	36.232M
5230MHz	Pass	Inf	39.95M	36.232M	40.4M	36.232M	40.1M	36.232M	39.9M	36.182M
5755MHz	Pass	500k	36.3M	36.232M	36.3M	36.232M	36.3M	36.182M	36.3M	36.232M
5795MHz	Pass	500k	36.3M	36.232M	36.35M	36.282M	36.3M	36.282M	36.3M	36.232M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.3M	75.662M	81.9M	75.662M	81.3M	75.662M	82M	75.662M
5775MHz	Pass	500k	75.1M	75.562M	75.2M	75.662M	75.1M	75.662M	75.5M	75.862M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.55M	18.991M	21.65M	18.966M	21.725M	18.941M	21.75M	18.991M
5200MHz	Pass	Inf	21.625M	18.991M	21.35M	18.991M	21.725M	18.966M	21.825M	18.991M
5240MHz	Pass	Inf	21.625M	18.966M	21.6M	18.966M	21.75M	18.966M	21.725M	19.015M
5745MHz	Pass	500k	18.85M	18.966M	18.8M	18.991M	18.975M	18.991M	19M	18.966M
5785MHz	Pass	500k	18.925M	18.991M	18.975M	19.04M	18.95M	18.941M	18.975M	18.916M
5825MHz	Pass	500k	18.95M	18.991M	18.875M	18.991M	18.9M	18.991M	18.95M	18.941M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.15M	37.581M	39.85M	37.481M	39.95M	37.481M	40M	37.581M
5230MHz	Pass	Inf	40.2M	37.531M	39.95M	37.581M	40.05M	37.581M	40.05M	37.631M
5755MHz	Pass	500k	37.2M	37.531M	36.95M	37.581M	37.25M	37.631M	37.3M	37.531M
5795MHz	Pass	500k	37.5M	37.531M	36.9M	37.531M	37.2M	37.681M	36.25M	37.681M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82M	77.161M	82.2M	76.962M	81.8M	77.061M	81.2M	77.061M
5775MHz	Pass	500k	76.6M	77.061M	76.7M	77.161M	77.7M	77.361M	76.3M	77.061M

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

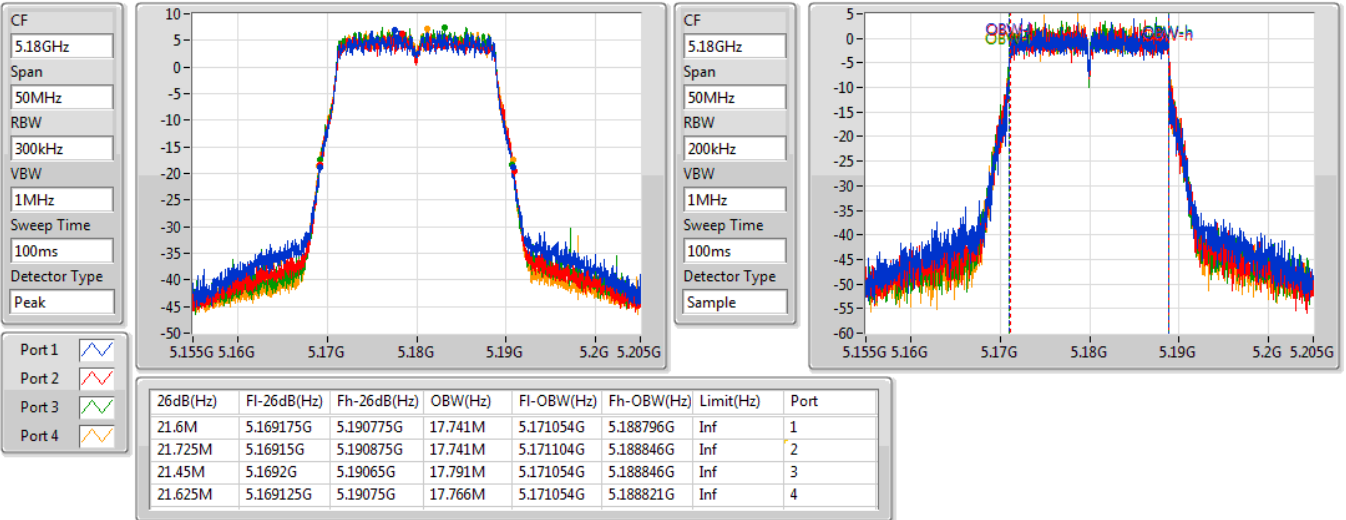
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5180MHz

31/10/2019

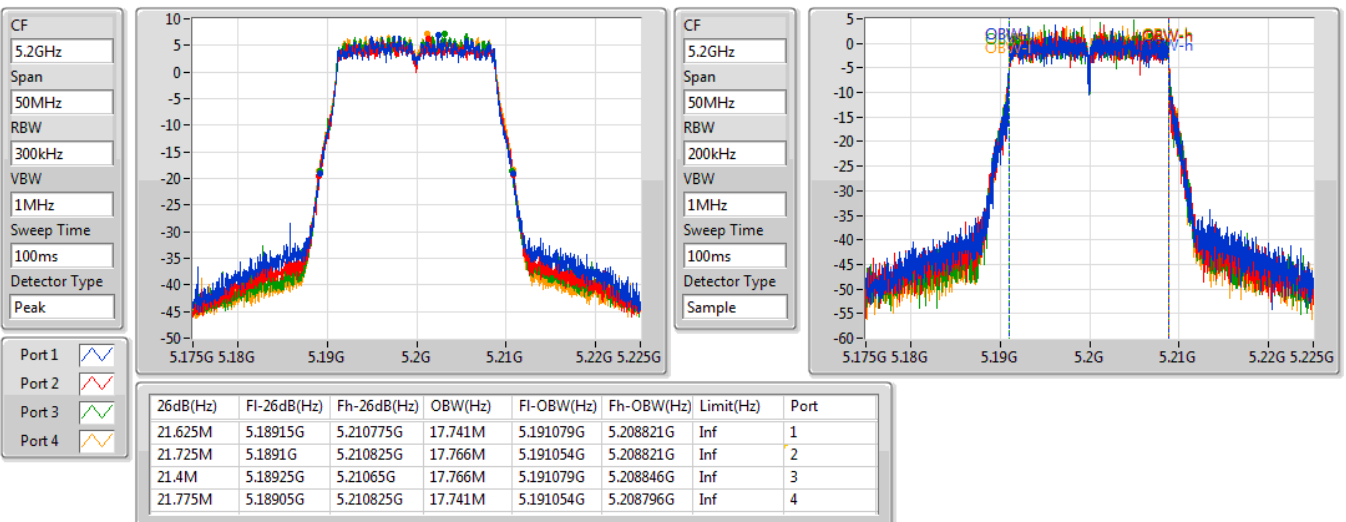


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5200MHz

31/10/2019



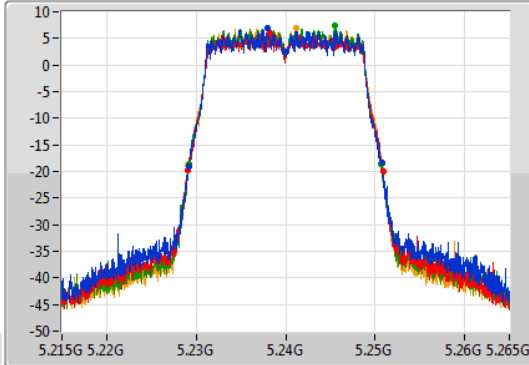
802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

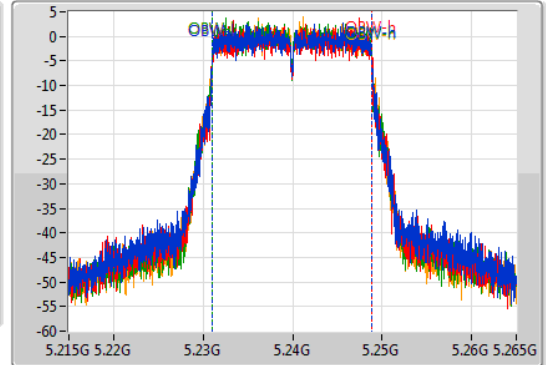
5240MHz

31/10/2019

CF: 5.24GHz
 Span: 50MHz
 RBW: 300kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.24GHz
 Span: 50MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1
 Port 2
 Port 3
 Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.55M	5.229175G	5.250725G	17.766M	5.231054G	5.248821G	Inf	1
21.8M	5.229075G	5.250875G	17.766M	5.231054G	5.248821G	Inf	2
21.425M	5.2292G	5.250625G	17.766M	5.231054G	5.248821G	Inf	3
21.725M	5.229075G	5.2508G	17.741M	5.231079G	5.248821G	Inf	4

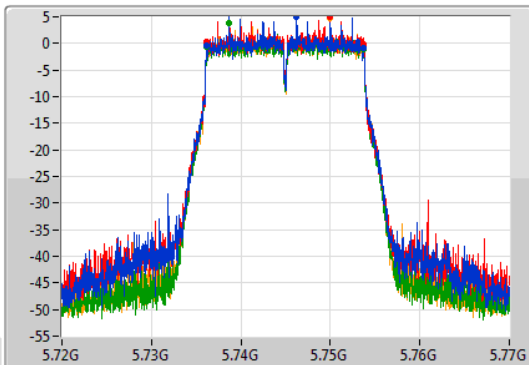
802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

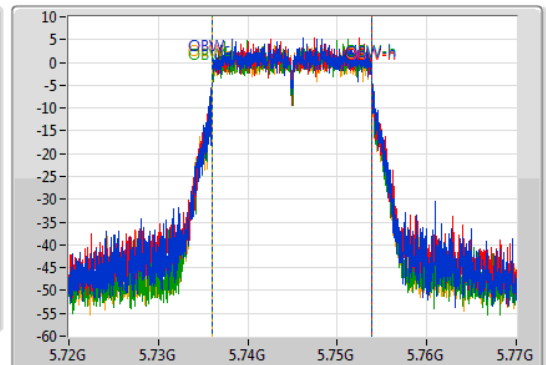
5745MHz

30/10/2019

CF: 5.745GHz
 Span: 50MHz
 RBW: 100kHz
 VBW: 300kHz
 Sweep Time: 100ms
 Detector Type: Peak



CF: 5.745GHz
 Span: 50MHz
 RBW: 200kHz
 VBW: 1MHz
 Sweep Time: 100ms
 Detector Type: Sample



Port 1
 Port 2
 Port 3
 Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.736175G	5.753725G	17.766M	5.736079G	5.753846G	500k	1
17.575M	5.736175G	5.75375G	17.741M	5.736079G	5.753821G	500k	2
17.575M	5.736175G	5.75375G	17.766M	5.736079G	5.753846G	500k	3
17.55M	5.736175G	5.753725G	17.791M	5.736054G	5.753846G	500k	4

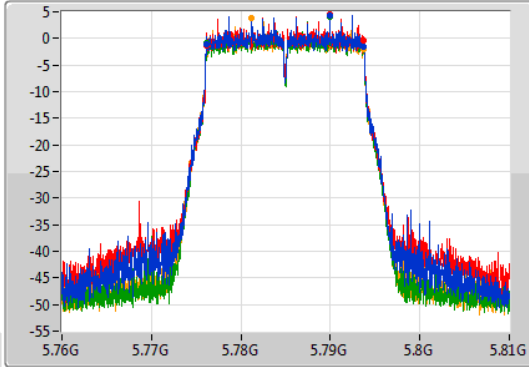
802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

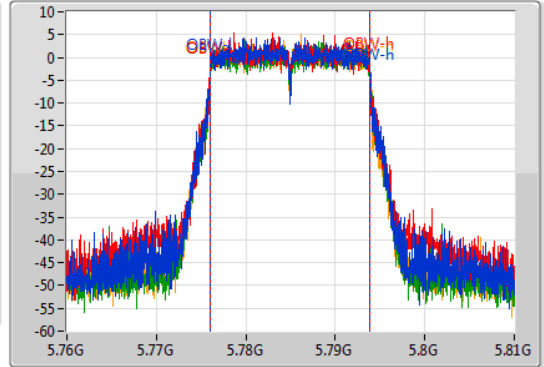
5785MHz

30/10/2019

CF
5.785GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.785GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.6M	5.77615G	5.79375G	17.791M	5.776054G	5.793846G	500k	1
17.6M	5.77615G	5.79375G	17.766M	5.776029G	5.793796G	500k	2
17.575M	5.776175G	5.79375G	17.741M	5.776079G	5.793821G	500k	3
17.6M	5.77615G	5.79375G	17.766M	5.776054G	5.793821G	500k	4

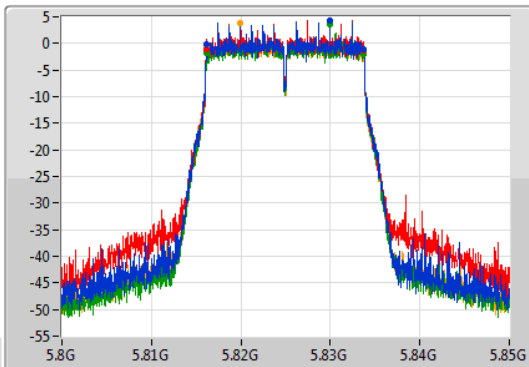
802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

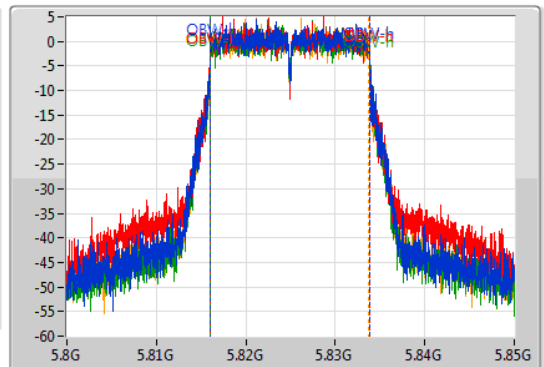
5825MHz

30/10/2019

CF
5.825GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
5.825GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.816175G	5.833725G	17.766M	5.816029G	5.833796G	500k	1
17.6M	5.81615G	5.83375G	17.741M	5.816054G	5.833796G	500k	2
17.6M	5.81615G	5.83375G	17.791M	5.816054G	5.833846G	500k	3
17.55M	5.816175G	5.833725G	17.716M	5.816054G	5.833771G	500k	4

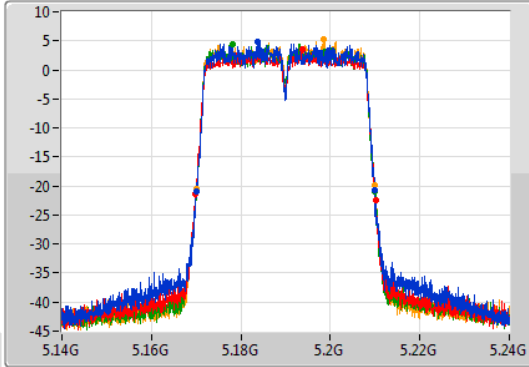
802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

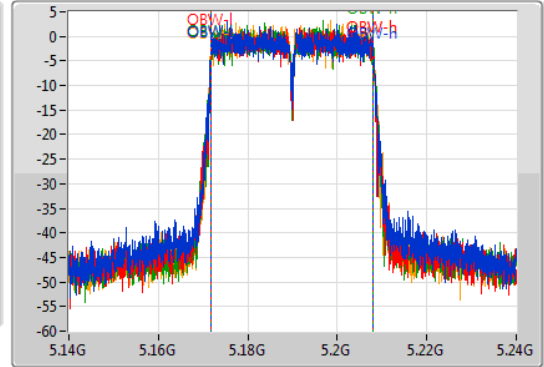
5190MHz

31/10/2019

CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.19GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.9M	5.17005G	5.20995G	36.232M	5.171809G	5.208041G	Inf	1
40.3M	5.16985G	5.21015G	36.232M	5.171809G	5.208041G	Inf	2
40.1M	5.1699G	5.21G	36.232M	5.171859G	5.208091G	Inf	3
39.75M	5.17015G	5.2099G	36.232M	5.171759G	5.207991G	Inf	4

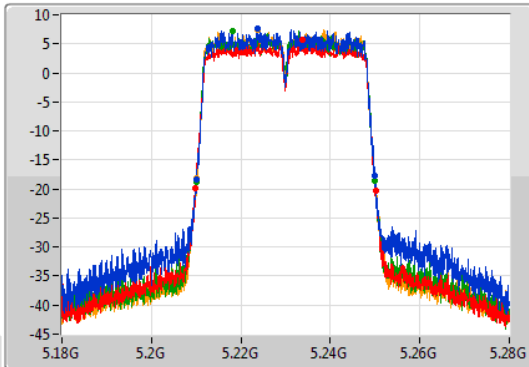
802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

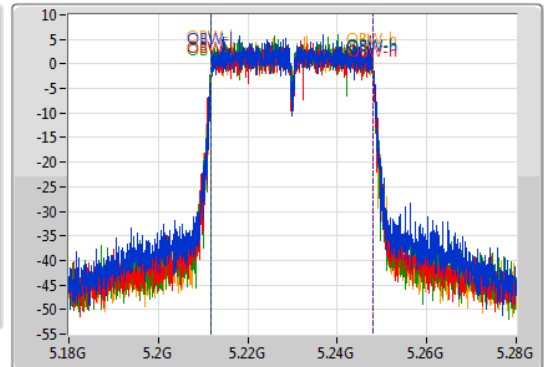
5230MHz

31/10/2019

CF
5.23GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.23GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



Port 1
Port 2
Port 3
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.95M	5.21G	5.24995G	36.232M	5.211859G	5.248091G	Inf	1
40.4M	5.20975G	5.25015G	36.232M	5.211809G	5.248041G	Inf	2
40.1M	5.20995G	5.25005G	36.232M	5.211759G	5.247991G	Inf	3
39.9M	5.21005G	5.24995G	36.182M	5.211809G	5.247991G	Inf	4