

NCC Test Report

Equipment : 室外型無線基地台
Brand Name :  Extreme Networks or Extreme Networks
Model Name : AP360i, AP360e
Applicant : 香港商極進網路有限公司台灣分公司
台北市松山區復勢里南京東路 4 段 126 號 5 樓
Manufacturer : 神準科技股份有限公司
桃園市龜山區復興三路 500 號
Standard : LP0002 Section 4.7 (2018-01-10)

The product was received on Nov. 27, 2019, and testing was started from Jan. 23, 2020 and completed on Mar. 07, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	4.7.8	Antenna Requirement	PASS	-
3.1	2.3	AC Power-line Conducted Emissions	PASS	-
3.2	4.7.3	Emission Bandwidth	PASS	-
3.3	4.7.3	Maximum Conducted Output Power	PASS	-
3.4	4.7.3	Peak Power Spectral Density	PASS	-
3.5	4.7.4	Unwanted Emissions	PASS	-
3.6	2.11	Receiver Radiated Unwanted Emissions	PASS	-

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Ann Hou

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]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.25-5.35GHz	802.11a	20	1TX
5.47-5.725GHz	802.11a	20	1TX
5.725-5.85GHz	802.11a	20	1TX
5.15-5.25GHz	802.11ac VHT20	20	1TX
5.25-5.35GHz	802.11ac VHT20	20	1TX
5.47-5.725GHz	802.11ac VHT20	20	1TX
5.725-5.85GHz	802.11ac VHT20	20	1TX
5.47-5.725GHz	802.11ac VHT40	40	1TX
5.15-5.25GHz	802.11ac VHT40	40	1TX
5.25-5.35GHz	802.11ac VHT40	40	1TX
5.725-5.85GHz	802.11ac VHT40	40	1TX
5.15-5.25GHz	802.11ac VHT80	80	1TX
5.25-5.35GHz	802.11ac VHT80	80	1TX
5.47-5.725GHz	802.11ac VHT80	80	1TX
5.725-5.85GHz	802.11ac VHT80	80	1TX
5.15-5.25GHz	802.11ax HEW20	20	1TX
5.25-5.35GHz	802.11ax HEW20	20	1TX

Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW20	20	1TX
5.725-5.85GHz	802.11ax HEW20	20	1TX
5.15-5.25GHz	802.11ax HEW40	40	1TX
5.25-5.35GHz	802.11ax HEW40	40	1TX
5.47-5.725GHz	802.11ax HEW40	40	1TX
5.725-5.85GHz	802.11ax HEW40	40	1TX
5.15-5.25GHz	802.11ax HEW80	80	1TX
5.25-5.35GHz	802.11ax HEW80	80	1TX
5.47-5.725GHz	802.11ax HEW80	80	1TX
5.725-5.85GHz	802.11ax HEW80	80	1TX
5.15-5.25GHz	802.11a	20	2TX
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ac VHT20-BF	20	2TX
5.25-5.35GHz	802.11ac VHT20-BF	20	2TX
5.47-5.725GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	2TX
5.25-5.35GHz	802.11ac VHT40-BF	40	2TX
5.47-5.725GHz	802.11ac VHT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT80-BF	80	2TX
5.25-5.35GHz	802.11ac VHT80-BF	80	2TX
5.47-5.725GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:

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

1.1.2 Antenna Information

(AP360i) Internal Antenna

Ant.	Brand	Model Number (P/N)	Antenna Type	Connector	Antenna Gain (dBi)			Remark
					2.4GHz	5GHz	BLE/Thread	
1	Senao	5718A0490300	PIFA	IPEX	4.53	4.8	-	Radio 1
2	Senao	5718A0491300	PIFA	IPEX	4.3	5.09	-	Radio 1
3	Senao	5718A0492300	PIFA	IPEX	-	4.94	-	Radio 2
4	Senao	5718A0493300	PIFA	IPEX	-	5.1	-	Radio 2
5	Senao	5718A0494300	PIFA	IPEX	-	-	4.99	Radio 3

(AP360e) External Antenna

Group	Brand	Model Number (P/N)	Antenna Type	Connector	Antenna Gain (dBi)			
					2.4GHz	5GHz	Angle above 30 degrees	BLE/Thread
1	Extreme	ML-2452-APA2-01	Omni	Reverse SMA	3.17	4.85	-	-
2	Extreme	ML-2452-HPA5-036	Omni	Reverse SMA	3.9	5.7	-	-
3	Extreme	ML-2452-HPAG4A6-01	Omni	N-type	4	7.3	-	-
4	Extreme	ML-2452-PTA4M4-036	Omni	Reverse SMA	5	6.6	-	-
5	Extreme	ML-2452-HPAG5A8-01	Omni	N-type	5	8	-6.05	-
6	Extreme	30724 WS-AO-DQ04360N	Omni	N-type	5.5	6	-	-
7	Extreme	AI-DQ04360S	Omni	Reverse SMA	5.5	6	-	-
8	Extreme	ML-2452-PNA5-01R	Panel	N-type	4.5	5	-	-
9	Extreme	ML-2452-SEC6M4-036, WS-AI-DQ05120 (30702)	Panel	Reverse SMA	6.92	7.23	-	-
10	Extreme	30705 WS-AI-DE07025	Panel	Reverse SMA	7.5	6.5	-	-
11	Extreme	ML-2452-PNA7-01R	Panel 1	N-type	7.8	10.7	7.9	7.8
12	Extreme	30707 WS-AI-DE10055	Panel 2	Reverse SMA	10.5	7.5	-	-
13	Extreme	ML-2452-APA2-02	Omni	Reverse SMA	3.17	4.85	-	-
14	Extreme	ML-2499-HPA8-01	Dipole	N-type	-	-	-	8
15	Senao	5718A0494300	PIFA	I-Pex	-	-	-	4.99

Note 1: Group 5, 11 and 12 were measured during the test for WLAN 2.4G Mode.

Note 2: Group 11, 14 and 15 were measured during the test for Bluetooth/Thread Mode.

Note 3: Group 5 and 11 were measured during the test for WLAN 5G Mode.

For 2.4GHz function:

For IEEE 802.11 b/g/n/ac/ax mode (1TX/1RX)

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

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

Port 1 and port 2 could transmit/receive simultaneously.

For BT function:

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

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

For Thread function:

For IEEE 802.15.4 Thread mode (1TX/1RX)

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

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX)

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

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

Port 1 and port 2 could transmit/receive simultaneously.

1.1.3 EUT Information

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

1.1.4 Table for Multiple Listing

Sample Number	Model Name	Description
1	AP360i	The "i" in AP360i indicates that it comes with internal antennas and the "e" in AP360e indicates that the access point comes with external antenna connectors.
2	AP360e	

1.1.5 Mode Test Duty Cycle

Non-Beamforming

Sample 1 & 2_Radio 1_1T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_1TX	0.951	0.22	2.069m	1k
802.11ac VHT20_Nss1,(MCS0)_1TX	0.986	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40_Nss1,(MCS0)_1TX	0.972	0.12	955.938u	3k
802.11ac VHT80_Nss1,(MCS0)_1TX	0.945	0.25	463.75u	3k
802.11ax HEW20_Nss1,(MCS0)_1TX	0.981	0.08	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40_Nss1,(MCS0)_1TX	0.964	0.16	774.375u	3k
802.11ax HEW80_Nss1,(MCS0)_1TX	0.931	0.31	404.688u	3k

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

Sample 1 & 2_Radio 2_1T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_1TX	0.951	0.22	2.066m	1k
802.11ac VHT20_Nss1,(MCS0)_1TX	0.986	0.06	1.93m	10
802.11ac VHT40_Nss1,(MCS0)_1TX	0.972	0.12	954.688u	3k
802.11ac VHT80_Nss1,(MCS0)_1TX	0.944	0.25	462.5u	3k
802.11ax HEW20_Nss1,(MCS0)_1TX	0.98	0.09	1.489m	10
802.11ax HEW40_Nss1,(MCS0)_1TX	0.964	0.16	775u	3k
802.11ax HEW80_Nss1,(MCS0)_1TX	0.93	0.32	403.125u	3k

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

Sample 1 & 2_Radio 1_2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_2TX	0.951	0.22	2.066m	1k
802.11ac VHT20_Nss2,(MCS0)_2TX	0.986	0.06	1.93m	10
802.11ac VHT40_Nss2,(MCS0)_2TX	0.972	0.12	954.688u	3k
802.11ac VHT80_Nss2,(MCS0)_2TX	0.944	0.25	462.5u	3k
802.11ax HEW20_Nss2,(MCS0)_2TX	0.98	0.09	1.489m	10
802.11ax HEW40_Nss2,(MCS0)_2TX	0.964	0.16	775u	3k
802.11ax HEW80_Nss2,(MCS0)_2TX	0.93	0.32	403.125u	3k

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

Sample 1 & 2_Radio 2_2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss1,(6Mbps)_2TX	0.951	0.22	2.066m	1k
802.11ac VHT20_Nss2,(MCS0)_2TX	0.972	0.12	990.625u	3k
802.11ac VHT40_Nss2,(MCS0)_2TX	0.948	0.23	501.563u	3k
802.11ac VHT80_Nss2,(MCS0)_2TX	0.903	0.44	257.813u	10k
802.11ax HEW20_Nss2,(MCS0)_2TX	0.964	0.16	781.25u	3k
802.11ax HEW40_Nss2,(MCS0)_2TX	0.932	0.31	423.438u	3k
802.11ax HEW80_Nss2,(MCS0)_2TX	0.892	0.5	242.187u	10k

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

Beamforming
Sample 1 & 2_Radio 1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	0.911	0.4	1.948m	1k
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	0.914	0.39	2.796m	1k
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	0.91	0.41	3.43m	300
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.882	0.55	1.501m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.887	0.52	2.222m	1k
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.883	0.54	3.844m	300

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

Sample 1 & 2_Radio 2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	0.962	0.17	2.073m	1k
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	0.963	0.16	2.073m	1k
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	0.979	0.09	2.074m	1k
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.868	0.61	1.501m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.868	0.61	1.501m	1k
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.874	0.58	3.842m	300

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

1.2 Testing Applied Standards

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

- ♦ LP0002 (2018-01-10)
- ♦ ANSI C63.10-2013
- ♦ KDB 789033 D02 v02r01
- ♦ KDB 662911 D01 v02r01
- ♦ ANSI C63.4-2014
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	20.3~21.9°C / 55~69%	07/Mar/2020
RF Conducted	TH01-HY	Barry	25.7~26.3°C / 60~66%	31/Jan/2020~05/Mar/2020
Radiated	03CH02-HY	Daniel	22.1~24.6°C / 40~55%	23/Jan/2020~26/Feb/2020

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Test Software Version	accessMTool_REL_3_1_0_1 (Non-Beamforming)
	CMD (Beamforming)

Non-Beamforming

Sample 1_Radio 1_1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	16.75
5200MHz	16.75
5240MHz	16.75
5260MHz	23.5
5300MHz	23.5
5320MHz	20.5
5500MHz	18.75
5580MHz	22.25
5700MHz	17.5
5720MHz Straddle 5.47-5.725GHz	22.25
5720MHz Straddle 5.725-5.85GHz	22.25
5745MHz	24
5785MHz	18.75
5825MHz	19
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5180MHz	16.75
5200MHz	16.75
5240MHz	16.75
5260MHz	23.5
5300MHz	23
5320MHz	19.75

Mode	Power Setting
5500MHz	17.75
5580MHz	21.75
5700MHz	16.75
5720MHz Straddle 5.47-5.725GHz	21.75
5720MHz Straddle 5.725-5.85GHz	21.75
5745MHz	24
5785MHz	18.75
5825MHz	18.5
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5190MHz	16.25
5230MHz	16.25
5270MHz	22
5310MHz	18.25
5510MHz	17.25
5550MHz	21.75
5670MHz	19.75
5710MHz Straddle 5.47-5.725GHz	21.5
5710MHz Straddle 5.725-5.85GHz	21.5
5755MHz	24
5795MHz	24
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5210MHz	16.75
5290MHz	18.25
5530MHz	17
5610MHz	21.25
5690MHz Straddle 5.47-5.725GHz	22.25
5690MHz Straddle 5.725-5.85GHz	22.25
5775MHz	22
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5180MHz	16.75
5200MHz	16.75
5240MHz	16.75
5260MHz	23.5
5300MHz	23
5320MHz	19.75

Mode	Power Setting
5500MHz	17.75
5580MHz	21.75
5700MHz	16.75
5720MHz Straddle 5.47-5.725GHz	21.75
5720MHz Straddle 5.725-5.85GHz	21.75
5745MHz	24
5785MHz	18.75
5825MHz	18.5
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5190MHz	16.25
5230MHz	16.25
5270MHz	22
5310MHz	18.25
5510MHz	17.25
5550MHz	22.5
5670MHz	19.75
5710MHz Straddle 5.47-5.725GHz	22.25
5710MHz Straddle 5.725-5.85GHz	22.25
5755MHz	24
5795MHz	24
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5210MHz	16.75
5290MHz	18.25
5530MHz	17
5610MHz	21.25
5690MHz Straddle 5.47-5.725GHz	22.75
5690MHz Straddle 5.725-5.85GHz	22.75
5775MHz	22

Sample 1_Radio 1_2T2S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	14
5200MHz	14
5240MHz	14
5260MHz	19.75
5300MHz	20
5320MHz	18.25
5500MHz	18
5580MHz	19.75
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
5745MHz	20.5
5785MHz	15.5
5825MHz	14.25
802.11ac VHT20_Nss2,(MCS0)_2TX	-
5180MHz	14
5200MHz	14
5240MHz	14
5260MHz	21.5
5300MHz	21.5
5320MHz	18.5
5500MHz	18.5
5580MHz	21.5
5700MHz	16.75
5720MHz Straddle 5.47-5.725GHz	20.25
5720MHz Straddle 5.725-5.85GHz	20.25
5745MHz	19
5785MHz	16.75
5825MHz	15.5
802.11ac VHT40_Nss2,(MCS0)_2TX	-
5190MHz	14
5230MHz	14
5270MHz	21.25

Mode	Power Setting
5310MHz	17
5510MHz	15.75
5550MHz	21.5
5670MHz	19.5
5710MHz Straddle 5.47-5.725GHz	21.5
5710MHz Straddle 5.725-5.85GHz	21.5
5755MHz	21.25
5795MHz	18.25
802.11ac VHT80_Nss2,(MCS0)_2TX	-
5210MHz	14
5290MHz	17.25
5530MHz	16
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	22
5690MHz Straddle 5.725-5.85GHz	22
5775MHz	20.75
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5180MHz	14
5200MHz	14
5240MHz	14
5260MHz	21.5
5300MHz	21.5
5320MHz	18.5
5500MHz	18.5
5580MHz	21.5
5700MHz	16.75
5720MHz Straddle 5.47-5.725GHz	20.25
5720MHz Straddle 5.725-5.85GHz	20.25
5745MHz	19
5785MHz	16.75
5825MHz	15.5
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5190MHz	14
5230MHz	14
5270MHz	21.25

Mode	Power Setting
5310MHz	17
5510MHz	15.75
5550MHz	21.5
5670MHz	19.5
5710MHz Straddle 5.47-5.725GHz	21.5
5710MHz Straddle 5.725-5.85GHz	21.5
5755MHz	21.25
5795MHz	18.25
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5210MHz	14
5290MHz	17.25
5530MHz	16
5610MHz	20
5690MHz Straddle 5.47-5.725GHz	22
5690MHz Straddle 5.725-5.85GHz	22
5775MHz	20.75

Sample 1_Radio 2_1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	16
5200MHz	16
5240MHz	16
5260MHz	24
5300MHz	23.75
5320MHz	21
5500MHz	17.75
5580MHz	24
5700MHz	17.75
5720MHz Straddle 5.47-5.725GHz	23.25
5720MHz Straddle 5.725-5.85GHz	23.25
5745MHz	24
5785MHz	24
5825MHz	24
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5180MHz	15.75
5200MHz	15.75
5240MHz	15.75
5260MHz	23.5
5300MHz	23.25
5320MHz	20
5500MHz	18.75
5580MHz	24
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	22.75
5720MHz Straddle 5.725-5.85GHz	22.75
5745MHz	24
5785MHz	24
5825MHz	24
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5190MHz	15.75
5230MHz	15.5
5270MHz	22

Mode	Power Setting
5310MHz	18.5
5510MHz	16.5
5550MHz	23.25
5670MHz	19.25
5710MHz Straddle 5.47-5.725GHz	23.25
5710MHz Straddle 5.725-5.85GHz	23.25
5755MHz	24
5795MHz	24
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5210MHz	15.75
5290MHz	18.75
5530MHz	18.25
5610MHz	21.5
5690MHz Straddle 5.47-5.725GHz	23.75
5690MHz Straddle 5.725-5.85GHz	23.75
5775MHz	22.25
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5180MHz	15.75
5200MHz	15.75
5240MHz	15.75
5260MHz	23.5
5300MHz	23.25
5320MHz	20
5500MHz	18.75
5580MHz	24
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	22.75
5720MHz Straddle 5.725-5.85GHz	22.75
5745MHz	24
5785MHz	24
5825MHz	24
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5190MHz	15.75
5230MHz	15.5
5270MHz	22

Mode	Power Setting
5310MHz	18.5
5510MHz	16.5
5550MHz	23.25
5670MHz	19.25
5710MHz Straddle 5.47-5.725GHz	23.25
5710MHz Straddle 5.725-5.85GHz	23.25
5755MHz	24
5795MHz	24
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5210MHz	15.75
5290MHz	18.75
5530MHz	18.25
5610MHz	21.5
5690MHz Straddle 5.47-5.725GHz	23.75
5690MHz Straddle 5.725-5.85GHz	23.75
5775MHz	22.25

Sample 1_Radio 2_2T2S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	13.25
5200MHz	13.25
5240MHz	13.25
5260MHz	19.25
5300MHz	19.25
5320MHz	19.25
5500MHz	16.75
5580MHz	19.25
5700MHz	16.75
5720MHz Straddle 5.47-5.725GHz	20
5720MHz Straddle 5.725-5.85GHz	20
5745MHz	24
5785MHz	24
5825MHz	24
802.11ac VHT20_Nss2,(MCS0)_2TX	-
5180MHz	13.25
5200MHz	13.25
5240MHz	13.25
5260MHz	21.5
5300MHz	21.5
5320MHz	19.25
5500MHz	18
5580MHz	21.25
5700MHz	17.25
5720MHz Straddle 5.47-5.725GHz	22.5
5720MHz Straddle 5.725-5.85GHz	22.5
5745MHz	24
5785MHz	24
5825MHz	24
802.11ac VHT40_Nss2,(MCS0)_2TX	-
5190MHz	13
5230MHz	13
5270MHz	21.5

Mode	Power Setting
5310MHz	17
5510MHz	16
5550MHz	21.5
5670MHz	19
5710MHz Straddle 5.47-5.725GHz	21.75
5710MHz Straddle 5.725-5.85GHz	21.75
5755MHz	23.5
5795MHz	24
802.11ac VHT80_Nss2,(MCS0)_2TX	-
5210MHz	13.25
5290MHz	18
5530MHz	17.25
5610MHz	21.25
5690MHz Straddle 5.47-5.725GHz	21.75
5690MHz Straddle 5.725-5.85GHz	21.75
5775MHz	21
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5180MHz	13.25
5200MHz	13.25
5240MHz	13.25
5260MHz	21.5
5300MHz	21.5
5320MHz	19.25
5500MHz	18
5580MHz	21.25
5700MHz	17.25
5720MHz Straddle 5.47-5.725GHz	22.5
5720MHz Straddle 5.725-5.85GHz	22.5
5745MHz	24
5785MHz	24
5825MHz	24
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5190MHz	13
5230MHz	13
5270MHz	21.5

Mode	Power Setting
5310MHz	17
5510MHz	16
5550MHz	21.5
5670MHz	19
5710MHz Straddle 5.47-5.725GHz	21.75
5710MHz Straddle 5.725-5.85GHz	21.75
5755MHz	23.5
5795MHz	24
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5210MHz	13.25
5290MHz	18
5530MHz	17.25
5610MHz	21.25
5690MHz Straddle 5.47-5.725GHz	21.75
5690MHz Straddle 5.725-5.85GHz	21.75
5775MHz	21

Sample 2_Radio 1_Omni_1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	19.75
5200MHz	24
5240MHz	24
5260MHz	21.75
5300MHz	21.75
5320MHz	18.75
5500MHz	16
5580MHz	20.75
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	22.25
5720MHz Straddle 5.725-5.85GHz	22.25
5745MHz	21.25
5785MHz	24
5825MHz	24
802.11ac VHT20_Nss1,(MCS0)_1TX	
5180MHz	18.5
5200MHz	22.5
5240MHz	24
5260MHz	21.5
5300MHz	21.5
5320MHz	17.75
5500MHz	17.25
5580MHz	20.5
5700MHz	13.25
5720MHz Straddle 5.47-5.725GHz	21.5
5720MHz Straddle 5.725-5.85GHz	21.5
5745MHz	24
5785MHz	24
5825MHz	24
802.11ac VHT40_Nss1,(MCS0)_1TX	
5190MHz	16.25
5230MHz	20.75
5270MHz	19.75

Mode	Power Setting
5310MHz	16.75
5510MHz	15.5
5550MHz	19.75
5670MHz	16.75
5710MHz Straddle 5.47-5.725GHz	21.25
5710MHz Straddle 5.725-5.85GHz	21.25
5755MHz	21.25
5795MHz	22.5
802.11ac VHT80_Nss1,(MCS0)_1TX	
5210MHz	16.25
5290MHz	16.75
5530MHz	16.25
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	20
5690MHz Straddle 5.725-5.85GHz	20
5775MHz	17.75
802.11ax HEW20_Nss1,(MCS0)_1TX	
5180MHz	18.5
5200MHz	22.5
5240MHz	24
5260MHz	21.5
5300MHz	21.5
5320MHz	17.75
5500MHz	17.25
5580MHz	20.5
5700MHz	13.25
5720MHz Straddle 5.47-5.725GHz	21.5
5720MHz Straddle 5.725-5.85GHz	21.5
5745MHz	24
5785MHz	24
5825MHz	24
802.11ax HEW40_Nss1,(MCS0)_1TX	
5190MHz	16.25
5230MHz	20.75
5270MHz	19.75

Mode	Power Setting
5310MHz	16.75
5510MHz	15.5
5550MHz	19.75
5670MHz	16.75
5710MHz Straddle 5.47-5.725GHz	21.75
5710MHz Straddle 5.725-5.85GHz	21.75
5755MHz	21.25
5795MHz	22.5
802.11ax HEW80_Nss1,(MCS0)_1TX	
5210MHz	16.25
5290MHz	16.75
5530MHz	16.25
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	20
5690MHz Straddle 5.725-5.85GHz	20
5775MHz	17.75

Sample 2_Radio 1_Omni_2T2S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	17
5200MHz	22
5240MHz	21.75
5260MHz	16
5300MHz	16.25
5320MHz	16.25
5500MHz	15
5580MHz	15.75
5700MHz	14.25
5720MHz Straddle 5.47-5.725GHz	16.25
5720MHz Straddle 5.725-5.85GHz	16.25
5745MHz	20.5
5785MHz	17.5
5825MHz	14
802.11ac VHT20_Nss2,(MCS0)_2TX	
5180MHz	17
5200MHz	21.25
5240MHz	23.5
5260MHz	18.75
5300MHz	18.75
5320MHz	16.75
5500MHz	16
5580MHz	18.5
5700MHz	14.75
5720MHz Straddle 5.47-5.725GHz	20.5
5720MHz Straddle 5.725-5.85GHz	20.5
5745MHz	21.5
5785MHz	19.5
5825MHz	14
802.11ac VHT40_Nss2,(MCS0)_2TX	
5190MHz	15
5230MHz	19.5
5270MHz	18.75

Mode	Power Setting
5310MHz	15
5510MHz	14
5550MHz	17
5670MHz	14.25
5710MHz Straddle 5.47-5.725GHz	19.5
5710MHz Straddle 5.725-5.85GHz	19.5
5755MHz	19.5
5795MHz	20.75
802.11ac VHT80_Nss2,(MCS0)_2TX	
5210MHz	14.5
5290MHz	15.75
5530MHz	14.75
5610MHz	16.5
5690MHz Straddle 5.47-5.725GHz	19
5690MHz Straddle 5.725-5.85GHz	19
5775MHz	17.5
802.11ax HEW20_Nss2,(MCS0)_2TX	
5180MHz	17
5200MHz	21.25
5240MHz	23.5
5260MHz	18.75
5300MHz	18.75
5320MHz	16.75
5500MHz	16
5580MHz	18.5
5700MHz	14.75
5720MHz Straddle 5.47-5.725GHz	20.5
5720MHz Straddle 5.725-5.85GHz	20.5
5745MHz	21.5
5785MHz	19.5
5825MHz	14
802.11ax HEW40_Nss2,(MCS0)_2TX	
5190MHz	15
5230MHz	19.5
5270MHz	18.75

Mode	Power Setting
5310MHz	15
5510MHz	14
5550MHz	17
5670MHz	14.25
5710MHz Straddle 5.47-5.725GHz	19.5
5710MHz Straddle 5.725-5.85GHz	19.5
5755MHz	19.5
5795MHz	20.75
802.11ax HEW80_Nss2,(MCS0)_2TX	
5210MHz	14.5
5290MHz	15.75
5530MHz	14.75
5610MHz	16.5
5690MHz Straddle 5.47-5.725GHz	19
5690MHz Straddle 5.725-5.85GHz	19
5775MHz	17.5

Sample 2_Radio 2_Omni_1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	18.5
5200MHz	23
5240MHz	23.5
5260MHz	22
5300MHz	22
5320MHz	19
5500MHz	16.25
5580MHz	21.75
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	23
5720MHz Straddle 5.725-5.85GHz	23
5745MHz	22.5
5785MHz	22.25
5825MHz	22.25
802.11ac VHT20_Nss1,(MCS0)_1TX	
5180MHz	17.75
5200MHz	22.25
5240MHz	23.25
5260MHz	22
5300MHz	21.75
5320MHz	17.75
5500MHz	17.5
5580MHz	21.75
5700MHz	13.75
5720MHz Straddle 5.47-5.725GHz	22.25
5720MHz Straddle 5.725-5.85GHz	22.25
5745MHz	22.75
5785MHz	21.5
5825MHz	21.5
802.11ac VHT40_Nss1,(MCS0)_1TX	
5190MHz	15.75
5230MHz	20
5270MHz	19.75

Mode	Power Setting
5310MHz	16
5510MHz	15
5550MHz	21
5670MHz	16.75
5710MHz Straddle 5.47-5.725GHz	23.25
5710MHz Straddle 5.725-5.85GHz	23.25
5755MHz	24
5795MHz	23.5
802.11ac VHT80_Nss1,(MCS0)_1TX	
5210MHz	15.5
5290MHz	16
5530MHz	16
5610MHz	18
5690MHz Straddle 5.47-5.725GHz	21
5690MHz Straddle 5.725-5.85GHz	21
5775MHz	19.5
802.11ax HEW20_Nss1,(MCS0)_1TX	
5180MHz	17.75
5200MHz	22.25
5240MHz	23.25
5260MHz	22
5300MHz	21.75
5320MHz	17.75
5500MHz	17.5
5580MHz	21.75
5700MHz	13.75
5720MHz Straddle 5.47-5.725GHz	22.25
5720MHz Straddle 5.725-5.85GHz	22.25
5745MHz	22.75
5785MHz	21.5
5825MHz	21.5
802.11ax HEW40_Nss1,(MCS0)_1TX	
5190MHz	15.75
5230MHz	20
5270MHz	19.75

Mode	Power Setting
5310MHz	16
5510MHz	15
5550MHz	21
5670MHz	16.75
5710MHz Straddle 5.47-5.725GHz	23.25
5710MHz Straddle 5.725-5.85GHz	23.25
5755MHz	24
5795MHz	23.5
802.11ax HEW80_Nss1,(MCS0)_1TX	
5210MHz	15.5
5290MHz	16
5530MHz	16
5610MHz	18
5690MHz Straddle 5.47-5.725GHz	21
5690MHz Straddle 5.725-5.85GHz	21
5775MHz	19.5

Sample 2_Radio 2_Omni_2T2S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	17.5
5200MHz	21.75
5240MHz	23.5
5260MHz	17.25
5300MHz	17.25
5320MHz	17.25
5500MHz	15.5
5580MHz	17.25
5700MHz	14.25
5720MHz Straddle 5.47-5.725GHz	17.75
5720MHz Straddle 5.725-5.85GHz	17.75
5745MHz	22.5
5785MHz	24
5825MHz	23.25
802.11ac VHT20_Nss2,(MCS0)_2TX	
5180MHz	17
5200MHz	21.5
5240MHz	23.5
5260MHz	18.5
5300MHz	18.5
5320MHz	17.75
5500MHz	17.5
5580MHz	18.5
5700MHz	15.25
5720MHz Straddle 5.47-5.725GHz	20.25
5720MHz Straddle 5.725-5.85GHz	20.25
5745MHz	22.5
5785MHz	22.25
5825MHz	24
802.11ac VHT40_Nss2,(MCS0)_2TX	
5190MHz	15.25
5230MHz	20.25
5270MHz	18.5

Mode	Power Setting
5310MHz	15.5
5510MHz	14.5
5550MHz	17.75
5670MHz	14
5710MHz Straddle 5.47-5.725GHz	20.25
5710MHz Straddle 5.725-5.85GHz	20.25
5755MHz	21.75
5795MHz	23
802.11ac VHT80_Nss2,(MCS0)_2TX	
5210MHz	14
5290MHz	15.5
5530MHz	15
5610MHz	18
5690MHz Straddle 5.47-5.725GHz	19.5
5690MHz Straddle 5.725-5.85GHz	19.5
5775MHz	18.5
802.11ax HEW20_Nss2,(MCS0)_2TX	
5180MHz	17
5200MHz	21.5
5240MHz	23.5
5260MHz	18.5
5300MHz	18.5
5320MHz	17.75
5500MHz	17.5
5580MHz	18.5
5700MHz	15.25
5720MHz Straddle 5.47-5.725GHz	20.25
5720MHz Straddle 5.725-5.85GHz	20.25
5745MHz	22.5
5785MHz	22.25
5825MHz	24
802.11ax HEW40_Nss2,(MCS0)_2TX	
5190MHz	15.25
5230MHz	20.25
5270MHz	18.5

Mode	Power Setting
5310MHz	15.5
5510MHz	14.5
5550MHz	17.75
5670MHz	14
5710MHz Straddle 5.47-5.725GHz	20.25
5710MHz Straddle 5.725-5.85GHz	20.25
5755MHz	21.75
5795MHz	23
802.11ax HEW80_Nss2,(MCS0)_2TX	
5210MHz	14
5290MHz	15.5
5530MHz	15
5610MHz	18
5690MHz Straddle 5.47-5.725GHz	19.5
5690MHz Straddle 5.725-5.85GHz	19.5
5775MHz	18.5

Sample 2_Radio 1_Panel 1_1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	19.5
5200MHz	23.75
5240MHz	24
5260MHz	19
5300MHz	19
5320MHz	18.75
5500MHz	16
5580MHz	18
5700MHz	16
5720MHz Straddle 5.47-5.725GHz	19
5720MHz Straddle 5.725-5.85GHz	19
5745MHz	22.75
5785MHz	24
5825MHz	24
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5180MHz	18.25
5200MHz	22.75
5240MHz	24
5260MHz	18.75
5300MHz	18.75
5320MHz	17.75
5500MHz	17.5
5580MHz	18
5700MHz	14
5720MHz Straddle 5.47-5.725GHz	19.25
5720MHz Straddle 5.725-5.85GHz	19.25
5745MHz	21.75
5785MHz	24
5825MHz	24
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5190MHz	16.5
5230MHz	21
5270MHz	18.75

Mode	Power Setting
5310MHz	16.75
5510MHz	15.5
5550MHz	18.75
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	19.25
5710MHz Straddle 5.725-5.85GHz	19.25
5755MHz	21.5
5795MHz	22.75
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5210MHz	16.25
5290MHz	16.75
5530MHz	16.25
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	19.25
5690MHz Straddle 5.725-5.85GHz	19.25
5775MHz	17.75
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5180MHz	18.25
5200MHz	22.75
5240MHz	24
5260MHz	18.75
5300MHz	18.75
5320MHz	17.75
5500MHz	17.5
5580MHz	18
5700MHz	14
5720MHz Straddle 5.47-5.725GHz	19.25
5720MHz Straddle 5.725-5.85GHz	19.25
5745MHz	21.75
5785MHz	24
5825MHz	24
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5190MHz	16.5
5230MHz	21
5270MHz	18.75

Mode	Power Setting
5310MHz	16.75
5510MHz	15.5
5550MHz	18.75
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	19.25
5710MHz Straddle 5.725-5.85GHz	19.25
5755MHz	21.5
5795MHz	22.75
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5210MHz	16.25
5290MHz	16.75
5530MHz	16.25
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	19.25
5690MHz Straddle 5.725-5.85GHz	19.25
5775MHz	17.75

Sample 2_Radio 1_Panel 1_2T2S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	16
5200MHz	19.75
5240MHz	19.75
5260MHz	14
5300MHz	14
5320MHz	14
5500MHz	13.25
5580MHz	13.25
5700MHz	13.25
5720MHz Straddle 5.47-5.725GHz	13.25
5720MHz Straddle 5.725-5.85GHz	13.25
5745MHz	22
5785MHz	22
5825MHz	15.5
802.11ac VHT20_Nss2,(MCS0)_2TX	-
5180MHz	17.25
5200MHz	21.25
5240MHz	22
5260MHz	16
5300MHz	16
5320MHz	16
5500MHz	15.25
5580MHz	15.25
5700MHz	15.25
5720MHz Straddle 5.47-5.725GHz	15.5
5720MHz Straddle 5.725-5.85GHz	15.5
5745MHz	21.75
5785MHz	21.75
5825MHz	16.25
802.11ac VHT40_Nss2,(MCS0)_2TX	-
5190MHz	15.25
5230MHz	19.75
5270MHz	16

Mode	Power Setting
5310MHz	15.25
5510MHz	14
5550MHz	15.5
5670MHz	15.5
5710MHz Straddle 5.47-5.725GHz	15.75
5710MHz Straddle 5.725-5.85GHz	15.75
5755MHz	21
5795MHz	21
802.11ac VHT80_Nss2,(MCS0)_2TX	-
5210MHz	14.25
5290MHz	15.5
5530MHz	15.25
5610MHz	15.75
5690MHz Straddle 5.47-5.725GHz	15.75
5690MHz Straddle 5.725-5.85GHz	15.75
5775MHz	17.75
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5180MHz	17.25
5200MHz	21.25
5240MHz	22
5260MHz	16
5300MHz	16
5320MHz	16
5500MHz	15.25
5580MHz	15.25
5700MHz	15.25
5720MHz Straddle 5.47-5.725GHz	15.5
5720MHz Straddle 5.725-5.85GHz	15.5
5745MHz	21.75
5785MHz	21.75
5825MHz	16.25
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5190MHz	15.25
5230MHz	19.75
5270MHz	16

Mode	Power Setting
5310MHz	15.25
5510MHz	14
5550MHz	15.5
5670MHz	15.5
5710MHz Straddle 5.47-5.725GHz	15.75
5710MHz Straddle 5.725-5.85GHz	15.75
5755MHz	21
5795MHz	21
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5210MHz	14.25
5290MHz	15.5
5530MHz	15.25
5610MHz	15.75
5690MHz Straddle 5.47-5.725GHz	15.75
5690MHz Straddle 5.725-5.85GHz	15.75
5775MHz	17.75

Sample 2_Radio 2_Panel 1_1T1S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	12.5
5200MHz	12.5
5240MHz	12.5
5260MHz	18.75
5300MHz	19
5320MHz	19
5500MHz	16.25
5580MHz	19
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	20.25
5720MHz Straddle 5.725-5.85GHz	20.25
5745MHz	23
5785MHz	24
5825MHz	23.25
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5180MHz	12.5
5200MHz	12.5
5240MHz	12.5
5260MHz	18.75
5300MHz	18.75
5320MHz	18
5500MHz	17.5
5580MHz	18.75
5700MHz	13.25
5720MHz Straddle 5.47-5.725GHz	20.25
5720MHz Straddle 5.725-5.85GHz	20.25
5745MHz	23.25
5785MHz	23
5825MHz	24
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5190MHz	12.5
5230MHz	12.5
5270MHz	18.5

Mode	Power Setting
5310MHz	16.75
5510MHz	15
5550MHz	18.75
5670MHz	17.5
5710MHz Straddle 5.47-5.725GHz	20.25
5710MHz Straddle 5.725-5.85GHz	20.25
5755MHz	23.5
5795MHz	24
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5210MHz	12.5
5290MHz	16.75
5530MHz	16.25
5610MHz	18.5
5690MHz Straddle 5.47-5.725GHz	20
5690MHz Straddle 5.725-5.85GHz	20
5775MHz	20.25
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5180MHz	12.5
5200MHz	12.5
5240MHz	12.5
5260MHz	18.75
5300MHz	18.75
5320MHz	18
5500MHz	17.5
5580MHz	18.75
5700MHz	13.25
5720MHz Straddle 5.47-5.725GHz	20.25
5720MHz Straddle 5.725-5.85GHz	20.25
5745MHz	23.25
5785MHz	23
5825MHz	24
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5190MHz	12.5
5230MHz	12.5
5270MHz	18.5

Mode	Power Setting
5310MHz	16.75
5510MHz	15
5550MHz	18.75
5670MHz	17.5
5710MHz Straddle 5.47-5.725GHz	20.25
5710MHz Straddle 5.725-5.85GHz	20.25
5755MHz	23.5
5795MHz	24
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5210MHz	12.5
5290MHz	16.75
5530MHz	16.25
5610MHz	18.5
5690MHz Straddle 5.47-5.725GHz	20
5690MHz Straddle 5.725-5.85GHz	20
5775MHz	20.25

Sample 2_Radio 2_Panel 1_2T2S

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	16
5200MHz	19.25
5240MHz	19.25
5260MHz	13.75
5300MHz	13.75
5320MHz	13.75
5500MHz	13.75
5580MHz	13.75
5700MHz	14.5
5720MHz Straddle 5.47-5.725GHz	14.5
5720MHz Straddle 5.725-5.85GHz	14.5
5745MHz	21.75
5785MHz	20.25
5825MHz	21.25
802.11ac VHT20_Nss2,(MCS0)_2TX	-
5180MHz	16.75
5200MHz	21
5240MHz	21.5
5260MHz	15.75
5300MHz	15.75
5320MHz	15.75
5500MHz	15.5
5580MHz	15.75
5700MHz	16.25
5720MHz Straddle 5.47-5.725GHz	16.75
5720MHz Straddle 5.725-5.85GHz	16.75
5745MHz	21.75
5785MHz	21.75
5825MHz	22
802.11ac VHT40_Nss2,(MCS0)_2TX	-
5190MHz	15
5230MHz	20.25
5270MHz	15.75

Mode	Power Setting
5310MHz	15.5
5510MHz	14.5
5550MHz	15.75
5670MHz	14.75
5710MHz Straddle 5.47-5.725GHz	16.75
5710MHz Straddle 5.725-5.85GHz	16.75
5755MHz	21.75
5795MHz	22.25
802.11ac VHT80_Nss2,(MCS0)_2TX	-
5210MHz	14
5290MHz	15.75
5530MHz	15
5610MHz	16
5690MHz Straddle 5.47-5.725GHz	16.5
5690MHz Straddle 5.725-5.85GHz	16.5
5775MHz	18.75
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5180MHz	16.75
5200MHz	21
5240MHz	21.5
5260MHz	15.75
5300MHz	15.75
5320MHz	15.75
5500MHz	15.5
5580MHz	15.75
5700MHz	16.25
5720MHz Straddle 5.47-5.725GHz	16.75
5720MHz Straddle 5.725-5.85GHz	16.75
5745MHz	21.75
5785MHz	21.75
5825MHz	22
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5190MHz	15
5230MHz	20.25
5270MHz	15.75

Mode	Power Setting
5310MHz	15.5
5510MHz	14.5
5550MHz	15.75
5670MHz	14.75
5710MHz Straddle 5.47-5.725GHz	16.75
5710MHz Straddle 5.725-5.85GHz	16.75
5755MHz	21.75
5795MHz	22.25
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5210MHz	14
5290MHz	15.75
5530MHz	15
5610MHz	16
5690MHz Straddle 5.47-5.725GHz	16.5
5690MHz Straddle 5.725-5.85GHz	16.5
5775MHz	18.75

**Beamforming
Sample 1_Radio 1**

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	12.5
5200MHz	12.5
5240MHz	12.5
5260MHz	18.75
5300MHz	18.75
5320MHz	18.25
5500MHz	17.5
5580MHz	18
5700MHz	15.75
5720MHz Straddle 5.47-5.725GHz	18
5720MHz Straddle 5.725-5.85GHz	18
5745MHz	22.25
5785MHz	15.75
5825MHz	13.25
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	12.5
5230MHz	12.25
5270MHz	18.5
5310MHz	16.75
5510MHz	14.5
5550MHz	18.25
5670MHz	18.25
5710MHz Straddle 5.47-5.725GHz	18
5710MHz Straddle 5.725-5.85GHz	18
5755MHz	22.5
5795MHz	22
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	12.5
5290MHz	16.25
5530MHz	14.25
5610MHz	18.75
5690MHz Straddle 5.47-5.725GHz	17.75

Mode	Power Setting
5690MHz Straddle 5.725-5.85GHz	17.75
5775MHz	22
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	12.5
5200MHz	12.5
5240MHz	12.5
5260MHz	18.75
5300MHz	18.75
5320MHz	18.25
5500MHz	17.5
5580MHz	18
5700MHz	15.75
5720MHz Straddle 5.47-5.725GHz	18
5720MHz Straddle 5.725-5.85GHz	18
5745MHz	18.25
5785MHz	15.75
5825MHz	13.25
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	12.5
5230MHz	12.5
5270MHz	18.5
5310MHz	16.75
5510MHz	14.5
5550MHz	18.25
5670MHz	18.25
5710MHz Straddle 5.47-5.725GHz	18
5710MHz Straddle 5.725-5.85GHz	18
5755MHz	22.5
5795MHz	22
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	12.5
5290MHz	16.25
5530MHz	14.25
5610MHz	18.75
5690MHz Straddle 5.47-5.725GHz	17.75



Mode	Power Setting
5690MHz Straddle 5.725-5.85GHz	17.75
5775MHz	22

Sample 1_Radio 2

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	10.75
5200MHz	10.75
5240MHz	10.5
5260MHz	19
5300MHz	19
5320MHz	18.75
5500MHz	18.5
5580MHz	18.75
5700MHz	16.5
5720MHz Straddle 5.47-5.725GHz	19.5
5720MHz Straddle 5.725-5.85GHz	19.5
5745MHz	22.25
5785MHz	22.5
5825MHz	22
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	
5190MHz	10.5
5230MHz	10.25
5270MHz	18.75
5310MHz	17.5
5510MHz	16
5550MHz	19
5670MHz	19.25
5710MHz Straddle 5.47-5.725GHz	19.75
5710MHz Straddle 5.725-5.85GHz	19.75
5755MHz	23.5
5795MHz	24
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	
5210MHz	10.5
5290MHz	17.25
5530MHz	17.75
5610MHz	19
5690MHz Straddle 5.47-5.725GHz	19
5690MHz Straddle 5.725-5.85GHz	19

Mode	Power Setting
5775MHz	21.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	
5180MHz	10.75
5200MHz	10.75
5240MHz	10.5
5260MHz	19
5300MHz	19
5320MHz	18.75
5500MHz	18.5
5580MHz	18.75
5700MHz	16.5
5720MHz Straddle 5.47-5.725GHz	19.5
5720MHz Straddle 5.725-5.85GHz	19.5
5745MHz	22.25
5785MHz	22.5
5825MHz	22
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	
5190MHz	10.5
5230MHz	10.25
5270MHz	18.75
5310MHz	17.5
5510MHz	16
5550MHz	19
5670MHz	19.25
5710MHz Straddle 5.47-5.725GHz	19.75
5710MHz Straddle 5.725-5.85GHz	19.75
5755MHz	23.5
5795MHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	
5210MHz	10.5
5290MHz	17.25
5530MHz	17.75
5610MHz	19
5690MHz Straddle 5.47-5.725GHz	19
5690MHz Straddle 5.725-5.85GHz	19



Mode	Power Setting
5775MHz	21.5

Sample 2_Radio 1_Omni

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	17.5
5200MHz	21.25
5240MHz	21.5
5260MHz	16
5300MHz	15.75
5320MHz	15
5500MHz	15.25
5580MHz	16
5700MHz	12.75
5720MHz Straddle 5.47-5.725GHz	16.25
5720MHz Straddle 5.725-5.85GHz	16.25
5745MHz	21.5
5785MHz	21.5
5825MHz	14.75
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	
5190MHz	14.25
5230MHz	19.5
5270MHz	15.75
5310MHz	14.5
5510MHz	15.75
5550MHz	15.75
5670MHz	15.75
5710MHz Straddle 5.47-5.725GHz	16
5710MHz Straddle 5.725-5.85GHz	16
5755MHz	20.5
5795MHz	21.75
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	
5210MHz	14.5
5290MHz	14.75
5530MHz	13
5610MHz	16
5690MHz Straddle 5.47-5.725GHz	16
5690MHz Straddle 5.725-5.85GHz	16

Mode	Power Setting
5775MHz	17.25
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	
5180MHz	17.5
5200MHz	21.25
5240MHz	21.5
5260MHz	16
5300MHz	15.75
5320MHz	15
5500MHz	15.25
5580MHz	16
5700MHz	12.75
5720MHz Straddle 5.47-5.725GHz	16.25
5720MHz Straddle 5.725-5.85GHz	16.25
5745MHz	21.5
5785MHz	21.5
5825MHz	14.75
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	
5190MHz	14.25
5230MHz	19.5
5270MHz	15.75
5310MHz	14.5
5510MHz	15.75
5550MHz	15.75
5670MHz	15.75
5710MHz Straddle 5.47-5.725GHz	16
5710MHz Straddle 5.725-5.85GHz	16
5755MHz	20.5
5795MHz	21.75
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	
5210MHz	14.5
5290MHz	14.75
5530MHz	13
5610MHz	16
5690MHz Straddle 5.47-5.725GHz	16
5690MHz Straddle 5.725-5.85GHz	16



Mode	Power Setting
5775MHz	17.25

Sample 2_Radio 2_Omni

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	17.75
5200MHz	21.75
5240MHz	21.5
5260MHz	15.75
5300MHz	15.75
5320MHz	15.75
5500MHz	15.75
5580MHz	16
5700MHz	12.5
5720MHz Straddle 5.47-5.725GHz	16.5
5720MHz Straddle 5.725-5.85GHz	16.5
5745MHz	20.5
5785MHz	22.25
5825MHz	22.75
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	
5190MHz	15.75
5230MHz	19.75
5270MHz	15.75
5310MHz	15.25
5510MHz	14.25
5550MHz	16
5670MHz	14.5
5710MHz Straddle 5.47-5.725GHz	16.5
5710MHz Straddle 5.725-5.85GHz	16.5
5755MHz	21.75
5795MHz	22.75
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	
5210MHz	15.5
5290MHz	15.75
5530MHz	14.25
5610MHz	16
5690MHz Straddle 5.47-5.725GHz	16
5690MHz Straddle 5.725-5.85GHz	16

Mode	Power Setting
5775MHz	18.25
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	
5180MHz	17.75
5200MHz	21.75
5240MHz	21.5
5260MHz	15.75
5300MHz	15.75
5320MHz	15.75
5500MHz	15.75
5580MHz	16
5700MHz	12.5
5720MHz Straddle 5.47-5.725GHz	16.5
5720MHz Straddle 5.725-5.85GHz	16.5
5745MHz	20.5
5785MHz	22.25
5825MHz	22.75
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	
5190MHz	15.75
5230MHz	19.75
5270MHz	15.75
5310MHz	15.25
5510MHz	14.25
5550MHz	16
5670MHz	14.5
5710MHz Straddle 5.47-5.725GHz	16.5
5710MHz Straddle 5.725-5.85GHz	16.5
5755MHz	21.75
5795MHz	22.75
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	
5210MHz	15.5
5290MHz	15.75
5530MHz	14.25
5610MHz	16
5690MHz Straddle 5.47-5.725GHz	16
5690MHz Straddle 5.725-5.85GHz	16



Mode	Power Setting
5775MHz	18.25

Sample 2_Radio 1_Panel 1

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	10
5200MHz	10
5240MHz	10
5260MHz	13.25
5300MHz	13.25
5320MHz	13.25
5500MHz	12.5
5580MHz	12.5
5700MHz	12.5
5720MHz Straddle 5.47-5.725GHz	12.5
5720MHz Straddle 5.725-5.85GHz	12.5
5745MHz	19
5785MHz	14.25
5825MHz	12
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	9.75
5230MHz	9.75
5270MHz	13
5310MHz	13.25
5510MHz	13
5550MHz	13
5670MHz	13
5710MHz Straddle 5.47-5.725GHz	12.5
5710MHz Straddle 5.725-5.85GHz	12.5
5755MHz	18.75
5795MHz	16
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	9.75
5290MHz	13.25
5530MHz	12.5
5610MHz	13
5690MHz Straddle 5.47-5.725GHz	12.75
5690MHz Straddle 5.725-5.85GHz	12.75

Mode	Power Setting
5775MHz	16.75
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	10
5200MHz	10
5240MHz	10
5260MHz	13.25
5300MHz	13.25
5320MHz	13.25
5500MHz	12.5
5580MHz	12.5
5700MHz	12.5
5720MHz Straddle 5.47-5.725GHz	12.5
5720MHz Straddle 5.725-5.85GHz	12.5
5745MHz	19
5785MHz	14.25
5825MHz	12
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	9.75
5230MHz	9.75
5270MHz	13
5310MHz	13.25
5510MHz	13
5550MHz	13
5670MHz	13
5710MHz Straddle 5.47-5.725GHz	12.5
5710MHz Straddle 5.725-5.85GHz	12.5
5755MHz	18.75
5795MHz	16
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	9.75
5290MHz	13.25
5530MHz	12.5
5610MHz	13
5690MHz Straddle 5.47-5.725GHz	12.75
5690MHz Straddle 5.725-5.85GHz	12.75



Mode	Power Setting
5775MHz	16.75

Sample 2_Radio 2_Panel 1

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	10
5200MHz	10.25
5240MHz	10
5260MHz	13.25
5300MHz	13.25
5320MHz	13
5500MHz	12.75
5580MHz	13.25
5700MHz	13.5
5720MHz Straddle 5.47-5.725GHz	13.75
5720MHz Straddle 5.725-5.85GHz	13.75
5745MHz	18.5
5785MHz	19
5825MHz	18.5
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	10
5230MHz	10
5270MHz	13.25
5310MHz	13.25
5510MHz	13.25
5550MHz	13.75
5670MHz	13.25
5710MHz Straddle 5.47-5.725GHz	14
5710MHz Straddle 5.725-5.85GHz	14
5755MHz	19.5
5795MHz	19.75
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	10
5290MHz	13.5
5530MHz	13.5
5610MHz	13.5
5690MHz Straddle 5.47-5.725GHz	14
5690MHz Straddle 5.725-5.85GHz	14

Mode	Power Setting
5775MHz	17.25
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	10
5200MHz	10.25
5240MHz	10
5260MHz	13.25
5300MHz	13.25
5320MHz	13
5500MHz	12.75
5580MHz	13.25
5700MHz	13.5
5720MHz Straddle 5.47-5.725GHz	13.75
5720MHz Straddle 5.725-5.85GHz	13.75
5745MHz	18.5
5785MHz	19
5825MHz	18.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	10
5230MHz	10
5270MHz	13.25
5310MHz	13.25
5510MHz	13.25
5550MHz	13.75
5670MHz	13.25
5710MHz Straddle 5.47-5.725GHz	14
5710MHz Straddle 5.725-5.85GHz	14
5755MHz	19.5
5795MHz	19.75
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	10
5290MHz	13.5
5530MHz	13.5
5610MHz	13.5
5690MHz Straddle 5.47-5.725GHz	14
5690MHz Straddle 5.725-5.85GHz	14



Mode	Power Setting
5775MHz	17.25

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX/CRX
1	PoE mode (Non-Beamforming_Sample 1_Radio 1)
2	PoE mode (Non-Beamforming_Sample 1_Radio 2)
3	PoE mode (Non-Beamforming_Sample 2_Radio 1)
4	PoE mode (Non-Beamforming_Sample 2_Radio 2)
5	PoE mode (Beamforming_Sample 1_Radio 1)
6	PoE mode (Beamforming_Sample 1_Radio 2)
7	PoE mode (Beamforming_Sample 2_Radio 1)
8	PoE mode (Beamforming_Sample 2_Radio 2)

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions Receiver Radiated Spurious 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/CRX
1	PoE mode (Non-Beamforming_Sample 1_Radio 1_1T1S)
2	PoE mode (Non-Beamforming_Sample 1_Radio 1_2T2S)
3	PoE mode (Non-Beamforming_Sample 1_Radio 2_1T1S)
4	PoE mode (Non-Beamforming_Sample 1_Radio 2_2T2S)
5	PoE mode (Non-Beamforming_Sample 2_Radio 1_Omni_1T1S)
6	PoE mode (Non-Beamforming_Sample 2_Radio 1_Omni_2T2S)
7	PoE mode (Non-Beamforming_Sample 2_Radio 1_Panel 1_1T1S)
8	PoE mode (Non-Beamforming_Sample 2_Radio 1_Panel 1_2T2S)
9	PoE mode (Non-Beamforming_Sample 2_Radio 2_Omni_1T1S)

10	PoE mode (Non-Beamforming_Sample 2_Radio 2_Omni_2T2S)		
11	PoE mode (Non-Beamforming_Sample 2_Radio 2_Panel 1_1T1S)		
12	PoE mode (Non-Beamforming_Sample 2_Radio 2_Panel 1_2T2S)		
13	PoE mode (Beamforming_Sample 1_Radio 1_2T1S)		
14	PoE mode (Beamforming_Sample 1_Radio 2_2T1S)		
15	PoE mode (Beamforming_Sample 2_Radio 1_Omni_2T1S)		
16	PoE mode (Beamforming_Sample 2_Radio 1_Panel 1_2T1S)		
17	PoE mode (Beamforming_Sample 2_Radio 2_Omni_2T1S)		
18	PoE mode (Beamforming_Sample 2_Radio 2_Panel 1_2T1S)		
Operating Mode > 1GHz	CTX/CRX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V (Sample 2_Panel 1)	V (Sample 1, Sample 2_Omni)	

2.4 Support Equipment

Support Equipment – AC Conduction (Non- Beamforming)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-10	-	Note 1
2	PoE	EnGenius	EPA5006GP	-	-
3	AC Power Cable	Power sync	PW-GPC180-3	-	-
4	Load	Sporton	-	-	-

Note 1: The applicant has signed the recognizance that the equipment will not be sold with the accessory.

Note 2: Support equipment No. 2 was provided by customer.

Support Equipment – AC Conduction (Beamforming)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-01	-	Note 1
2	PoE	EnGenius	EPA5006GP	-	-
3	AC Power Cable	Power sync	PW-GPC180-3	-	-
4	PoE	EnGenius	EPA5006GP	-	Remote
5	AC Power Cable	-	-	-	Remote
6	Notebook	Dell	PP13S	-	Remote
7	RJ45 Cable	Power Sync	CAT-6E-01	-	Remote
8	Adapter for NB	Dell	AA90PM111	-	Remote
9	AC Power Cable for NB	Power sync	PW-GPC180-3	-	Remote

Note 1: The applicant has signed the recognizance that the equipment will not be sold with the accessory.

Note 2: Support equipment No. 2, 4, 5 was provided by customer.

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	PP13S	DoC	-
2	Adapter for NB	DELL	AA90PM111	DoC	-
3	Notebook	DELL	PP13S	DoC	-
4	Adapter for NB	DELL	AA90PM111	DoC	-
5	PoE	EnGenius	EPA5006GP	-	Note 1

Note 1: Support equipment No. 5 was provided by customer. The applicant has signed the recognizance that the equipment will not be sold with the accessory.

Support Equipment – Radiated (Non- Beamforming)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-10	-	Note 1
2	load	Sporton	-	-	-
3	RJ45 Cable	Power Sync	UTP5-01	-	-

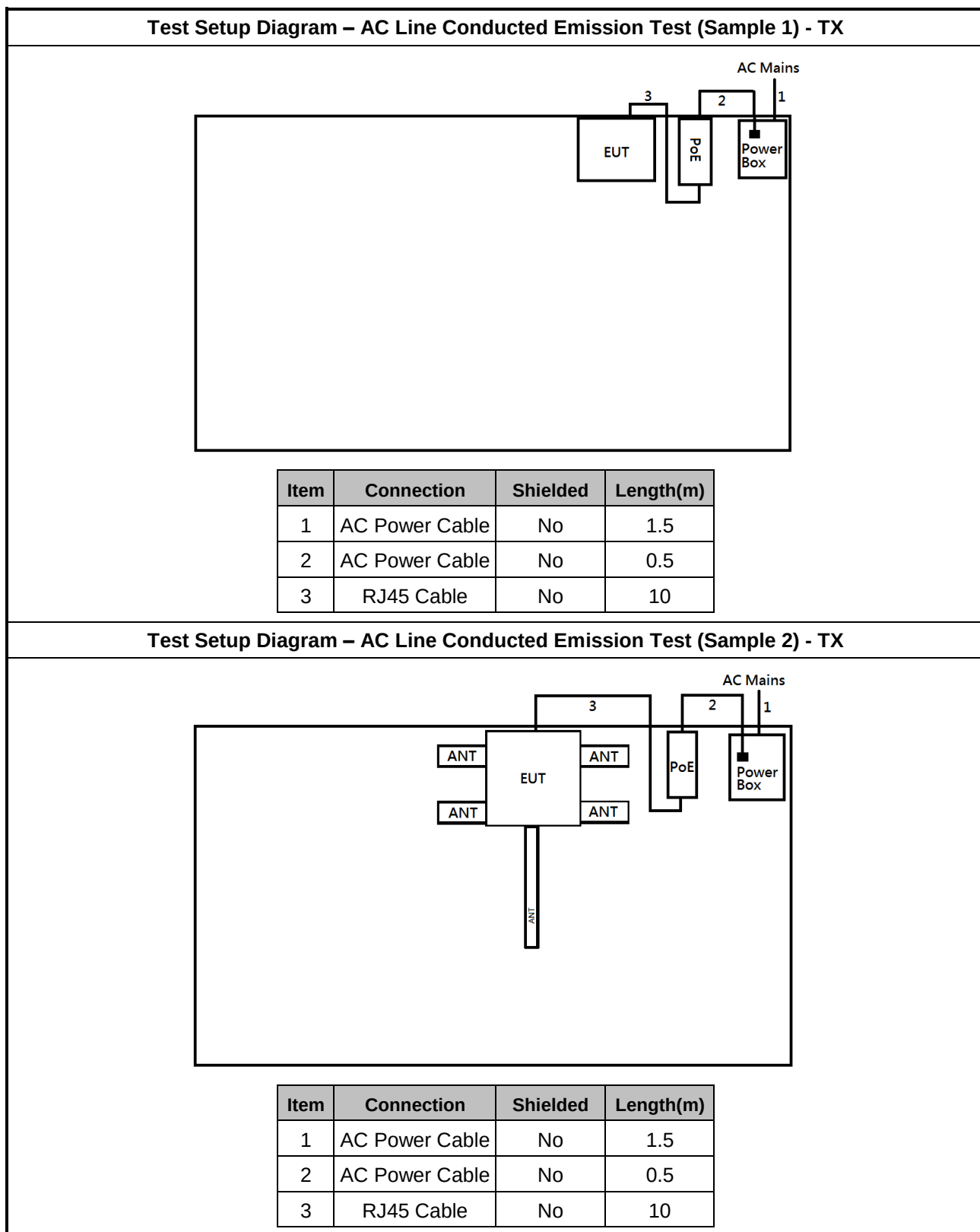
Note 1: The applicant has signed the recognizance that the equipment will not be sold with the accessory.

Support Equipment – Radiated (Beamforming)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power Sync	CAT-6E-10	-	Note 1
2	PoE	EnGenius	EPA5006GP	-	Remote
3	PoE	EnGenius	EPA5006GP	-	Remote
4	AC Power Cable	-	-	-	Remote
5	Notebook	Dell	PP13S	-	Remote
6	RJ45 Cable	Power Sync	CAT-6E-01	-	Remote
7	Adapter for NB	Dell	AA90PM111	-	Remote
8	load	Sporton	-	-	-
9	RJ45 Cable	Power Sync	UTP5-01	-	-

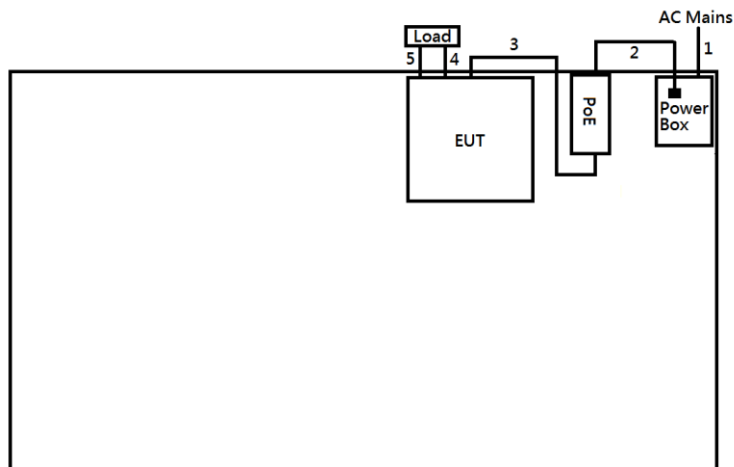
Note 1: The applicant has signed the recognizance that the equipment will not be sold with the accessory.

Note 2: Support equipment No. 2, 3, 4 was provided by customer.

2.5 Test Setup Diagram

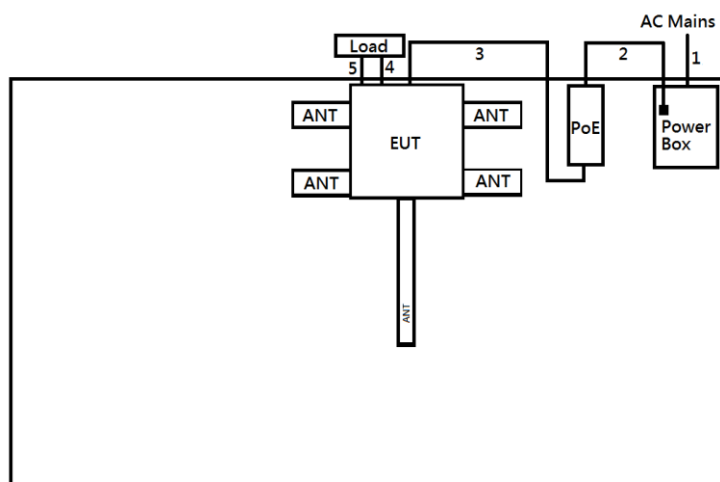


Test Setup Diagram – AC Line Conducted Emission Test (Sample 1) - RX

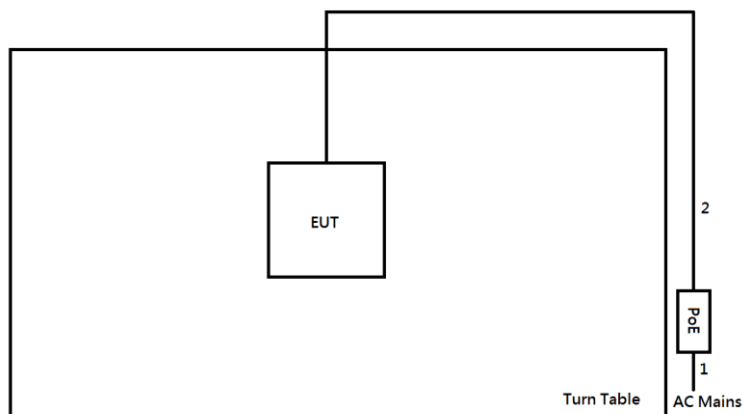


Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	1.5
2	AC Power Cable	No	0.5
3	RJ45 Cable	No	10
4	RJ45 Cable	No	1
5	RJ45 Cable	No	1

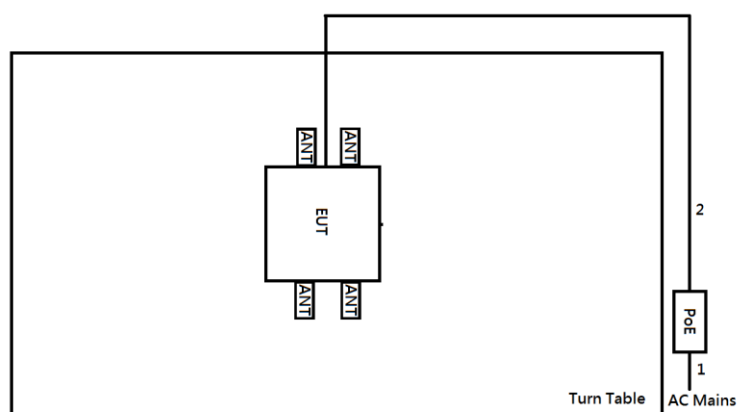
Test Setup Diagram – AC Line Conducted Emission Test (Sample 2) - RX



Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	1.5
2	AC Power Cable	No	0.5
3	RJ45 Cable	No	10
4	RJ45 Cable	No	1
5	RJ45 Cable	No	1

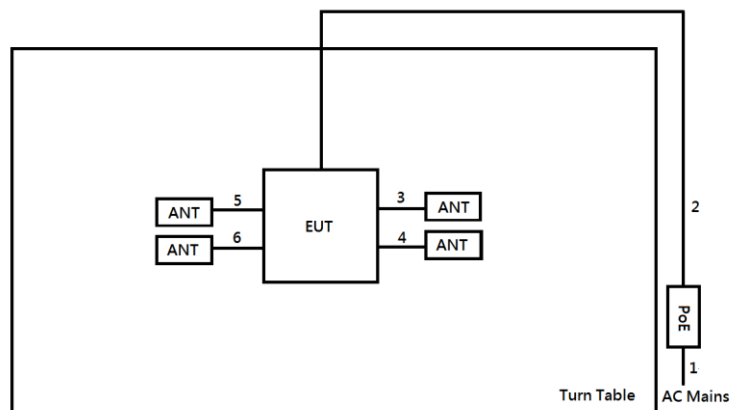
Test Setup Diagram - Radiated Test (Sample 1) - TX


Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	0.5
2	RJ45 Cable	No	10

Test Setup Diagram - Radiated Test (Sample 2_Omni) - TX


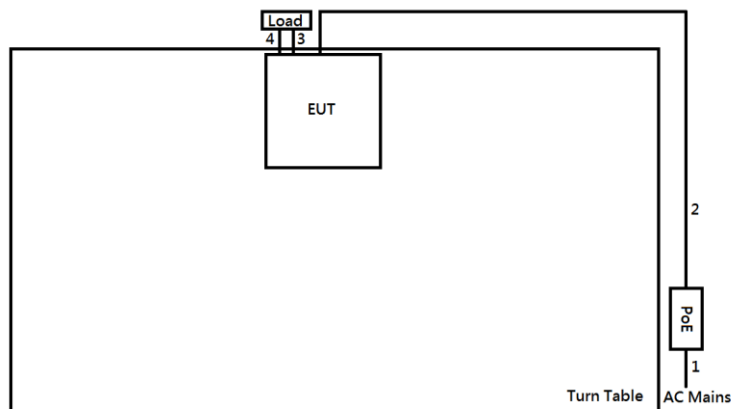
Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	0.5
2	RJ45 Cable	No	10

Test Setup Diagram - Radiated Test (Sample 2_Panel 1) - TX



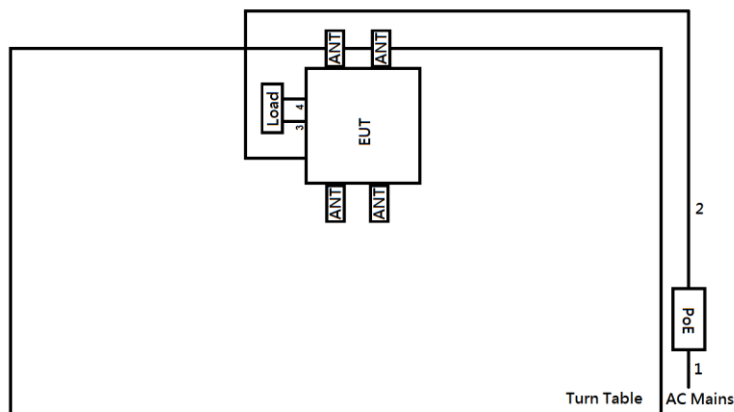
Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	0.5
2	RJ45 Cable	No	10
3	Antenna Cable	No	0.3
4	Antenna Cable	No	0.3
5	Antenna Cable	No	0.3
6	Antenna Cable	No	0.3

Test Setup Diagram - Radiated Test (Sample 1) - RX



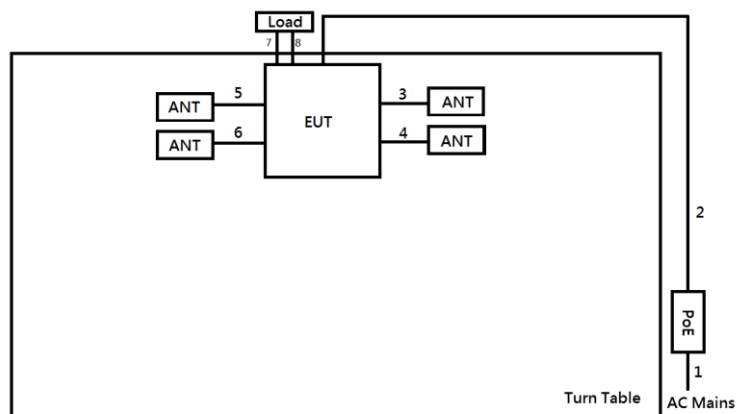
Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	0.5
2	RJ45 Cable	No	10
3	RJ45 Cable	No	1
4	RJ45 Cable	No	1

Test Setup Diagram - Radiated Test (Sample 2_Omni) - RX



Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	0.5
2	RJ45 Cable	No	10
3	RJ45 Cable	No	1
4	RJ45 Cable	No	1

Test Setup Diagram - Radiated Test (Sample 2_Panel 1) - RX



Item	Connection	Shielded	Length(m)
1	AC Power Cable	No	0.5
2	RJ45 Cable	No	10
3	Antenna Cable	No	0.3
4	Antenna Cable	No	0.3
5	Antenna Cable	No	0.3
6	Antenna Cable	No	0.3
7	RJ45 Cable	No	1
8	RJ45 Cable	No	1

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

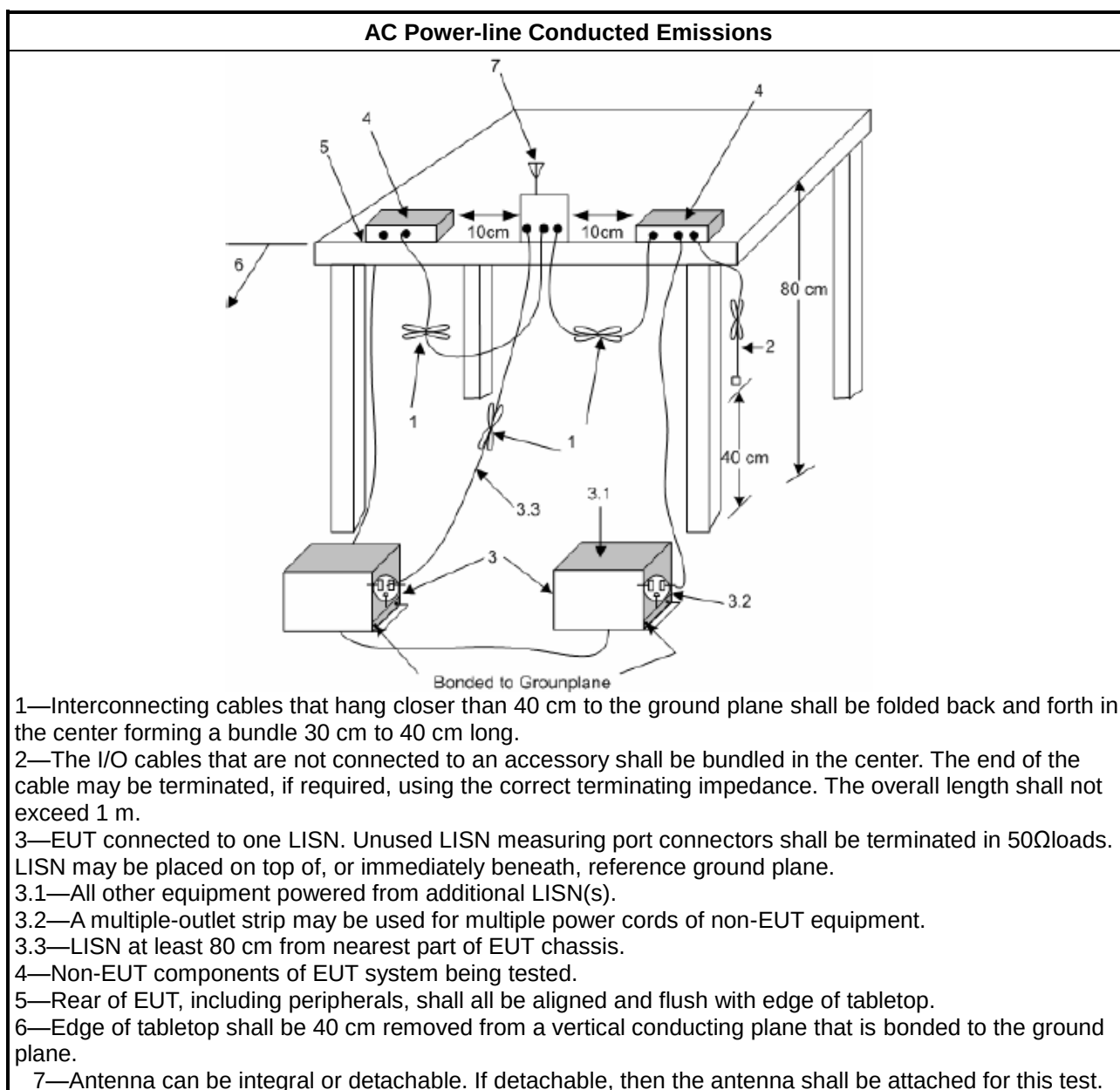
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

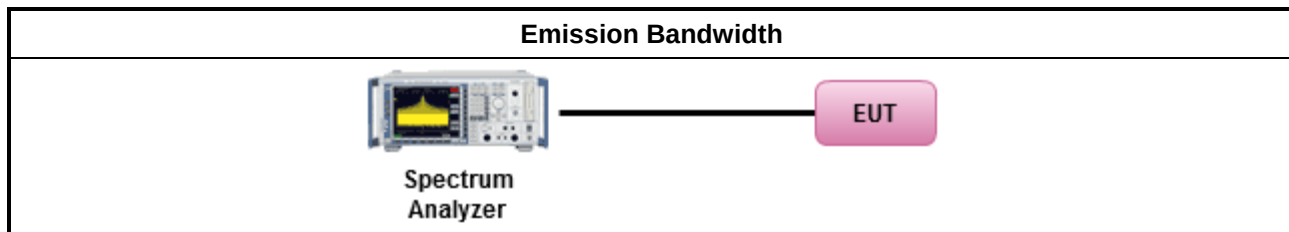
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

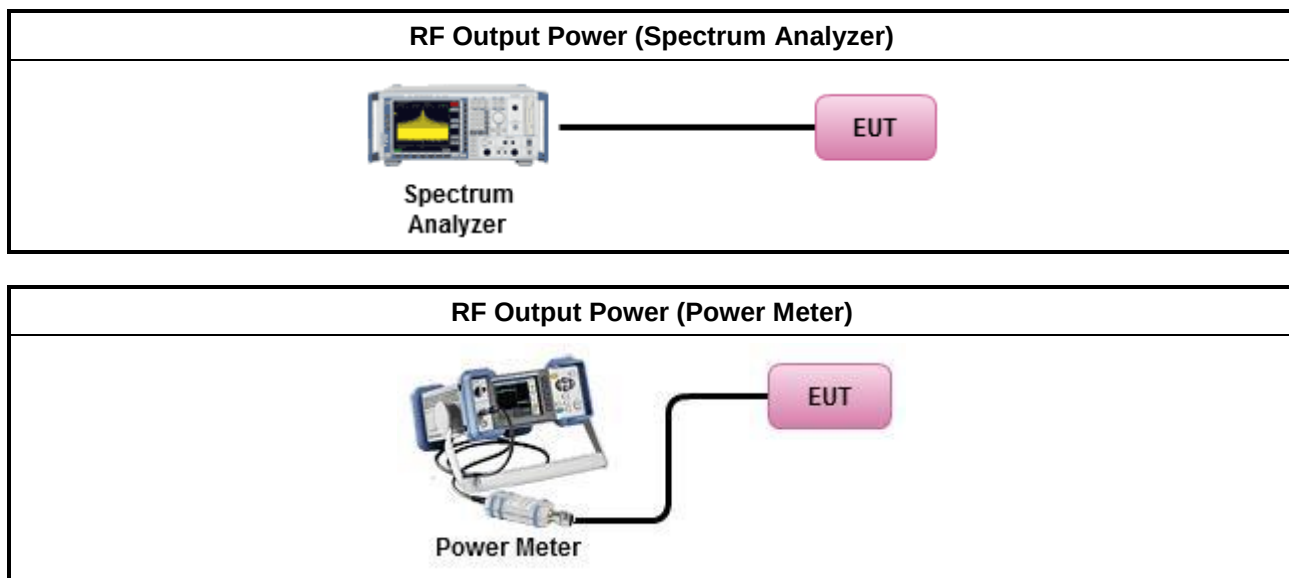
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

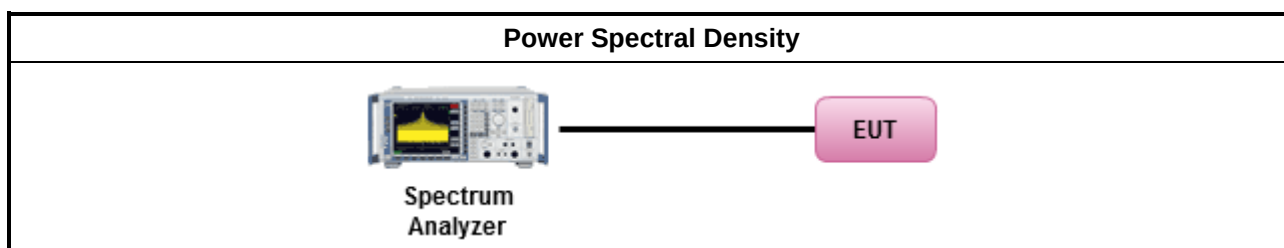
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

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

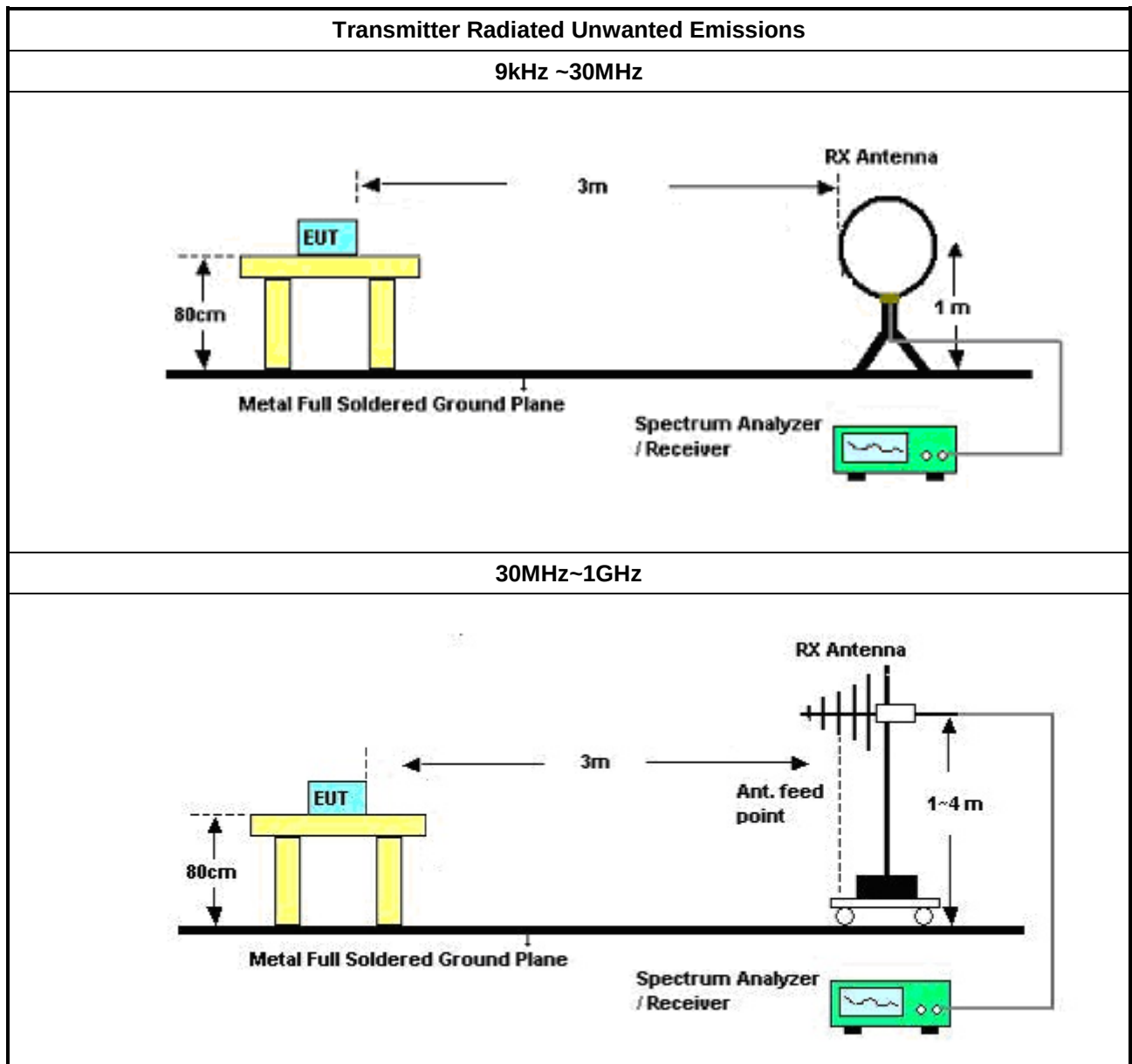
3.5.2 Measuring Instruments

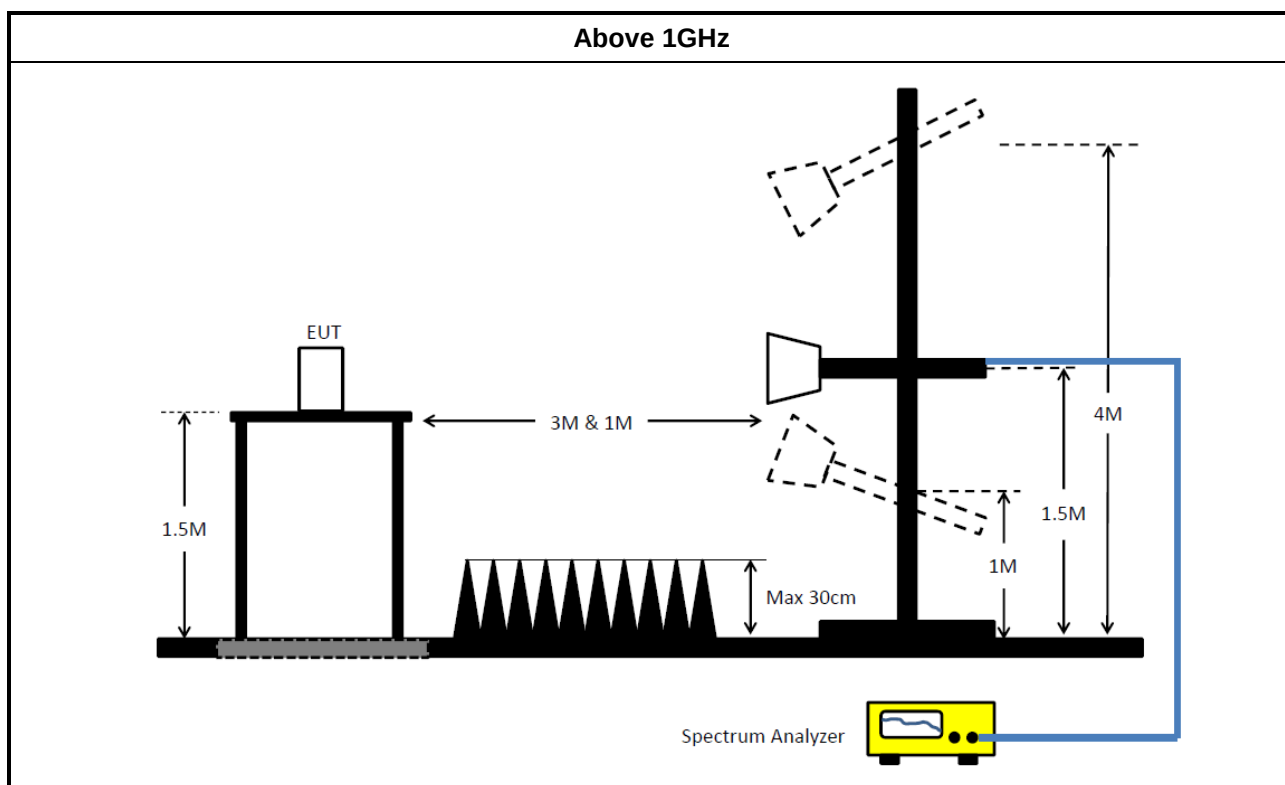
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
	☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on LP0002 5.5.2: measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.5.4 Test Setup





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Receiver Radiated Spurious Emissions

3.6.1 Receiver in Radiated Spurious Emissions Limit

Restricted Spurious Emissions 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.

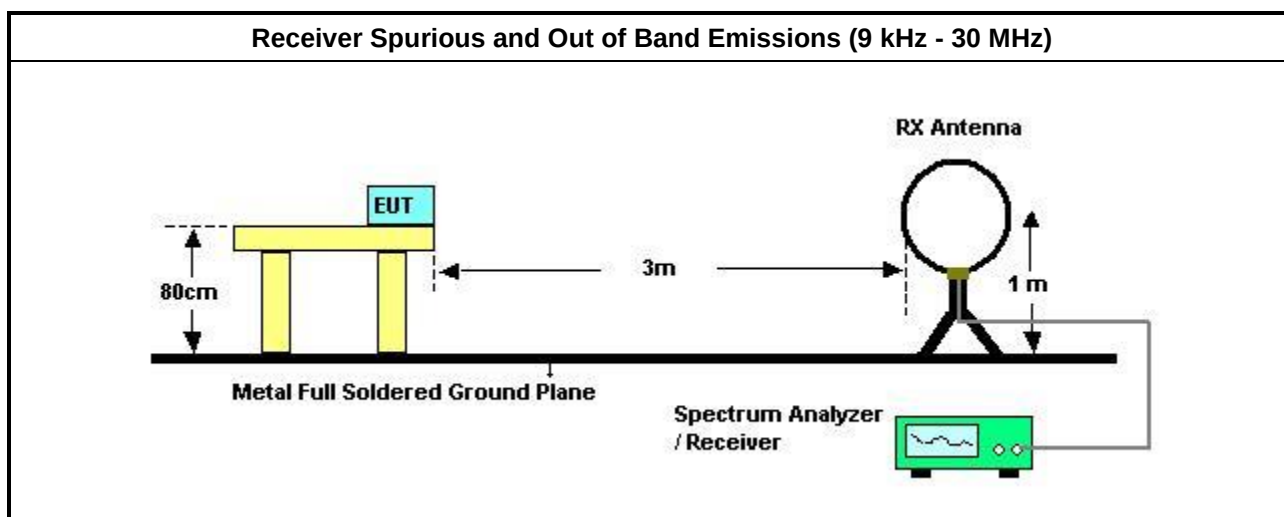
3.6.2 Measuring Instruments

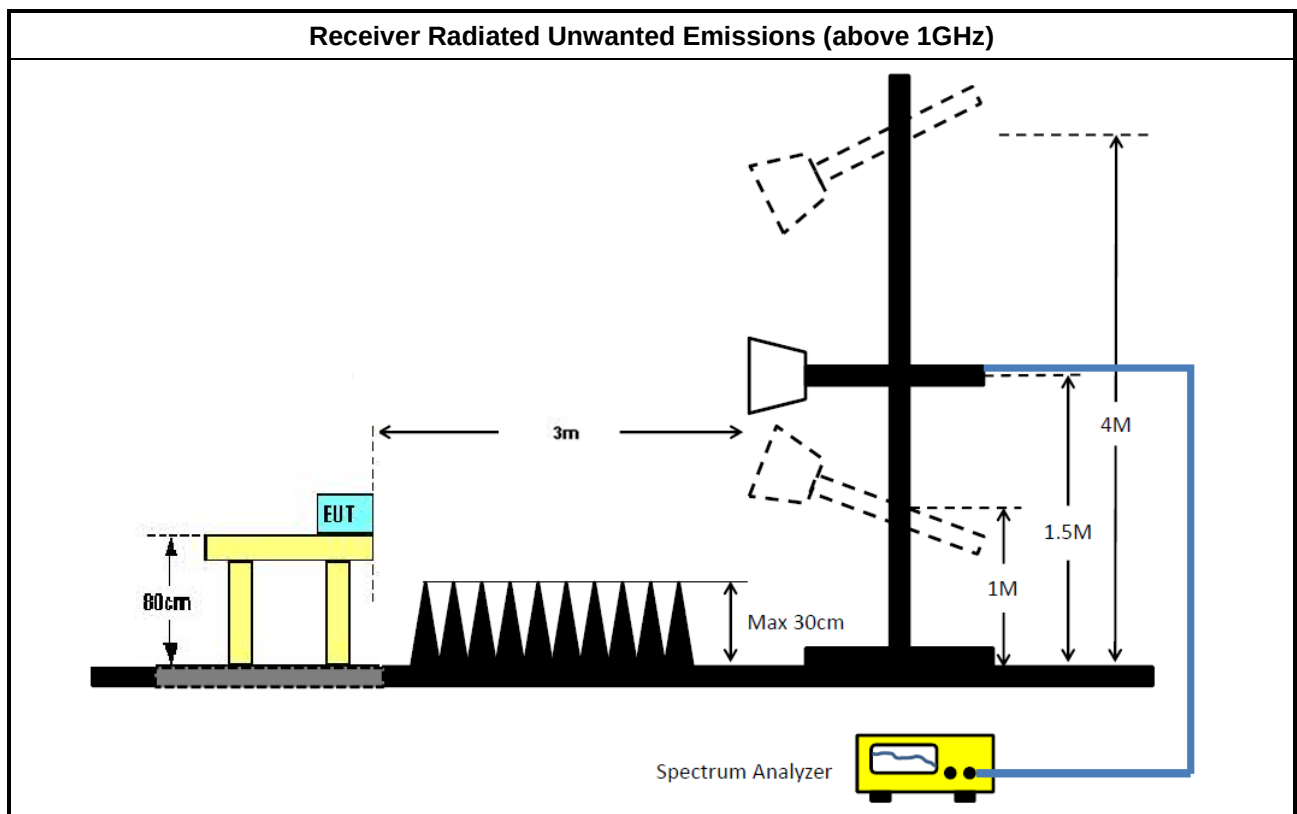
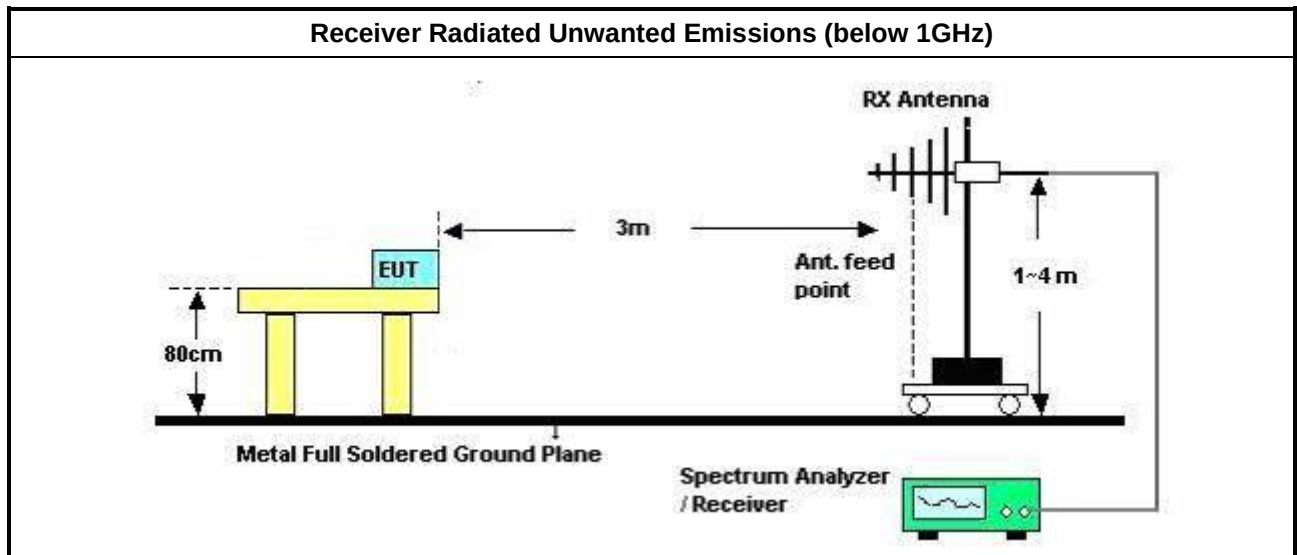
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.
☒	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).
☒	For radiated measurement, refer as ANSI C63.4, clause 8.3.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from 30 MHz-1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the QP-Limit so that the QP level does not need to be reported in addition.
☒	Refer as ANSI C63.4, clause 8.3.1.2 and 8.3.2.2 for radiated emissions from above 1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

3.6.4 Test Setup





3.6.5 Receiver Radiated Unwanted Emissions (Below 30MHz)

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

3.6.6 Test Result of Receiver Radiated Unwanted Emissions

Refer as Appendix G

4 Test Equipment and Calibration Data

Instrument for AC Conduction

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

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	13/Mar/2019	12/Mar/2020
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	29/Aug/2019	28/Aug/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	29/Aug/2019	28/Aug/2020
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	02/Jul/2019	01/Jul/2020
Microwave Preampifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	16/Oct/2019	15/Oct/2020
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40 GHz	15/ Aug/2019	14/ Aug /2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Mar/2019	25/Mar/2020
RF Cable-high 6m	SUHNER	SUCOFLEX104	10567868 / SN805193/4	1GHz~40GHz	09/Apr/2019	08/Apr/2020
RF Cable-high 7m	SUHNER	SUCOFLEX104	10567868 / SN805192/4	1GHz~40GHz	09/Apr/2019	08/Apr/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	11/Oct/2019	10/Oct/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170339	18GHz ~ 40GHz	19/Apr/2019	18/Apr/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020



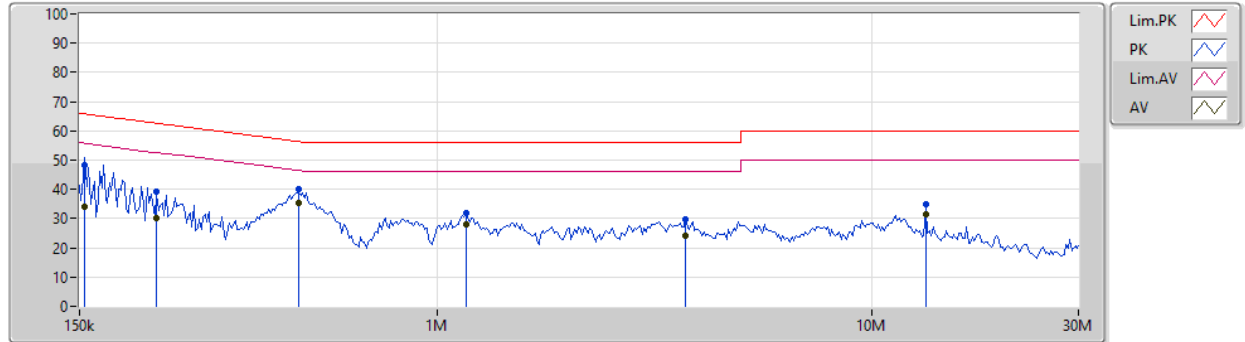
AC Power-line Conducted Emissions_ Non Beamforming_Sample 1_Radio1

Appendix A.1

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Non Beamforming ; Sample 1 ; PoE mode ; Radio1 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.545k	48.12	65.75	-17.63	19.63	Neutral	-	28.49	9.65	0.11	9.87			
AV	154.545k	33.89	55.75	-21.86	19.63	Neutral	-	14.26	9.65	0.11	9.87			
QP	225.563k	39.03	62.62	-23.59	19.63	Neutral	-	19.40	9.64	0.12	9.87			
AV	225.563k	30.14	52.62	-22.48	19.63	Neutral	-	10.51	9.64	0.12	9.87			
QP	480.498k	40.02	56.33	-16.31	19.63	Neutral	-	20.39	9.63	0.13	9.87			
AV	480.498k	35.46	46.33	-10.87	19.63	Neutral	"Worst"	15.83	9.63	0.13	9.87			
QP	1.165M	31.78	56.00	-24.22	19.63	Neutral	-	12.15	9.63	0.12	9.88			
AV	1.165M	28.12	46.00	-17.88	19.63	Neutral	-	8.49	9.63	0.12	9.88			
QP	3.732M	29.72	56.00	-26.28	19.72	Neutral	-	10.00	9.66	0.18	9.88			
AV	3.732M	24.22	46.00	-21.78	19.72	Neutral	-	4.50	9.66	0.18	9.88			
QP	13.336M	34.75	60.00	-25.25	19.89	Neutral	-	14.86	9.71	0.30	9.88			
AV	13.336M	31.61	50.00	-18.39	19.89	Neutral	-	11.72	9.71	0.30	9.88			



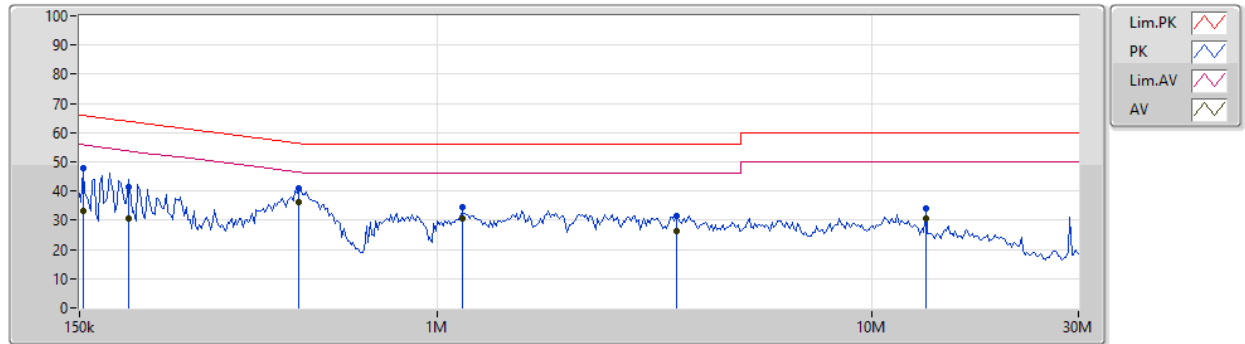
AC Power-line Conducted Emissions_ Non Beamforming_Sample 1_Radio1

Appendix A.1

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Non Beamforming ; Sample 1 ; PoE mode ; Radio1 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	48.06	65.83	-17.77	19.64	Line	-	28.42	9.66	0.11	9.87			
AV	153.015k	33.31	55.83	-22.52	19.64	Line	-	13.67	9.66	0.11	9.87			
QP	194.288k	41.49	63.86	-22.37	19.63	Line	-	21.86	9.65	0.11	9.87			
AV	194.288k	30.60	53.86	-23.26	19.63	Line	-	10.97	9.65	0.11	9.87			
QP	480.498k	41.16	56.33	-15.17	19.64	Line	-	21.52	9.64	0.13	9.87			
AV	480.498k	36.40	46.33	-9.93	19.64	Line	"Worst"	16.76	9.64	0.13	9.87			
QP	1.142M	34.35	56.00	-21.65	19.64	Line	-	14.71	9.64	0.12	9.88			
AV	1.142M	30.65	46.00	-15.35	19.64	Line	-	11.01	9.64	0.12	9.88			
QP	3.55M	31.44	56.00	-24.56	19.72	Line	-	11.72	9.66	0.18	9.88			
AV	3.55M	26.30	46.00	-19.70	19.72	Line	-	6.58	9.66	0.18	9.88			
QP	13.336M	34.04	60.00	-25.96	19.85	Line	-	14.19	9.67	0.30	9.88			
AV	13.336M	30.47	50.00	-19.53	19.85	Line	-	10.62	9.67	0.30	9.88			



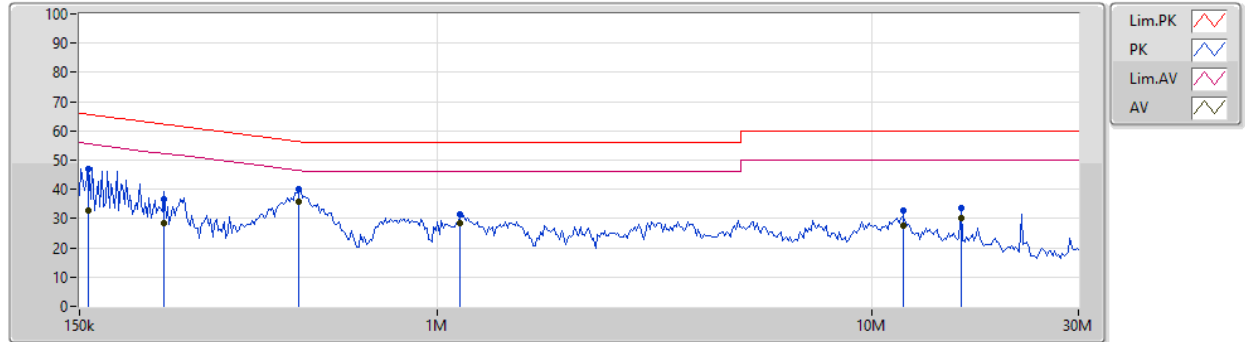
AC Power-line Conducted Emissions_ Non Beamforming_Sample 1_Radio1

Appendix A.1

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Non Beamforming ; Sample 1 ; PoE mode ; Radio1 WIFI 5G RX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	157.652k	47.07	65.58	-18.51	19.63	Neutral	-	27.44	9.65	0.11	9.87			
AV	157.652k	32.85	55.58	-22.73	19.63	Neutral	-	13.22	9.65	0.11	9.87			
QP	234.722k	36.63	62.27	-25.64	19.63	Neutral	-	17.00	9.64	0.12	9.87			
AV	234.722k	28.34	52.27	-23.93	19.63	Neutral	-	8.71	9.64	0.12	9.87			
QP	480.498k	40.30	56.33	-16.03	19.63	Neutral	-	20.67	9.63	0.13	9.87			
AV	480.498k	35.66	46.33	-10.67	19.63	Neutral	"Worst"	16.03	9.63	0.13	9.87			
QP	1.131M	31.68	56.00	-24.32	19.63	Neutral	-	12.05	9.63	0.12	9.88			
AV	1.131M	28.58	46.00	-17.42	19.63	Neutral	-	8.95	9.63	0.12	9.88			
QP	11.835M	32.95	60.00	-27.05	19.87	Neutral	-	13.08	9.70	0.29	9.88			
AV	11.835M	27.78	50.00	-22.22	19.87	Neutral	-	7.91	9.70	0.29	9.88			
QP	16.112M	33.71	60.00	-26.29	19.91	Neutral	-	13.80	9.71	0.32	9.88			
AV	16.112M	30.24	50.00	-19.76	19.91	Neutral	-	10.33	9.71	0.32	9.88			



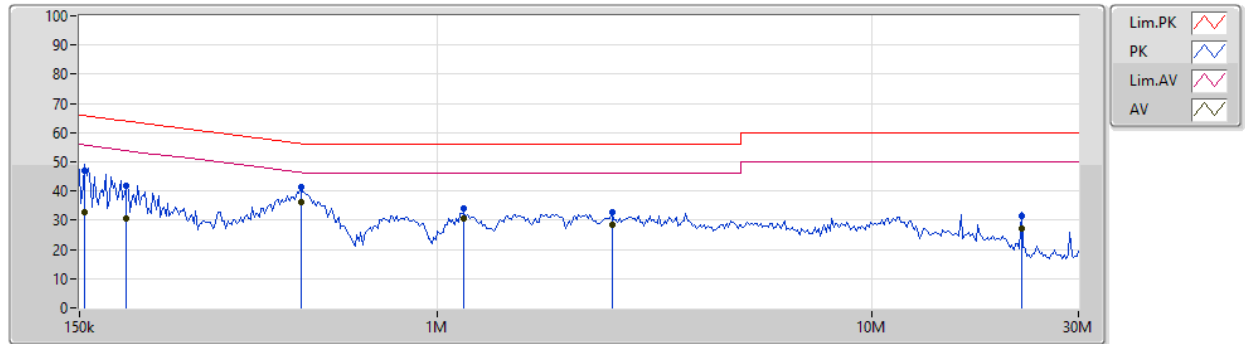
AC Power-line Conducted Emissions_ Non Beamforming_Sample 1_Radio1

Appendix A.1

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Non Beamforming ; Sample 1 ; PoE mode ; Radio1 WIFI 5G RX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.545k	47.15	65.75	-18.60	19.64	Line	-	27.51	9.66	0.11	9.87			
AV	154.545k	32.71	55.75	-23.04	19.64	Line	-	13.07	9.66	0.11	9.87			
QP	192.365k	41.66	63.93	-22.27	19.63	Line	-	22.03	9.65	0.11	9.87			
AV	192.365k	30.72	53.93	-23.21	19.63	Line	-	11.09	9.65	0.11	9.87			
QP	485.303k	41.48	56.25	-14.77	19.64	Line	-	21.84	9.64	0.13	9.87			
AV	485.303k	36.03	46.25	-10.22	19.64	Line	"Worst"	16.39	9.64	0.13	9.87			
QP	1.153M	33.94	56.00	-22.06	19.64	Line	-	14.30	9.64	0.12	9.88			
AV	1.153M	30.68	46.00	-15.32	19.64	Line	-	11.04	9.64	0.12	9.88			
QP	2.531M	32.72	56.00	-23.28	19.68	Line	-	13.04	9.65	0.16	9.87			
AV	2.531M	28.60	46.00	-17.40	19.68	Line	-	8.92	9.65	0.16	9.87			
QP	22.152M	31.38	60.00	-28.62	19.88	Line	-	11.50	9.61	0.38	9.89			
AV	22.152M	27.31	50.00	-22.69	19.88	Line	-	7.43	9.61	0.38	9.89			



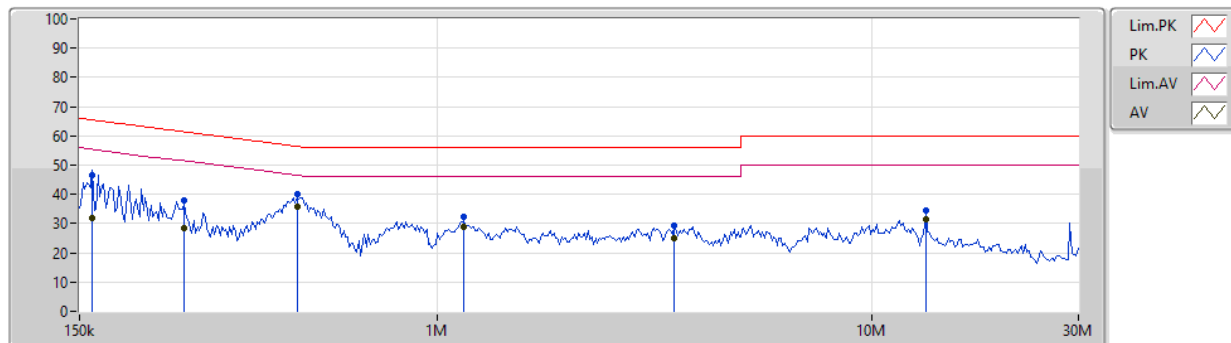
AC Power-line Conducted Emissions_ Non Beamforming_Sample 1_Radio2

Appendix A.2

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	Non Beamforming ; Sample 1 ; PoE mode ; Radio2 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	160.82k	46.39	65.43	-19.04	19.63	Neutral	-	26.76	9.65	0.11	9.87			
AV	160.82k	31.74	55.43	-23.69	19.63	Neutral	-	12.11	9.65	0.11	9.87			
QP	261.871k	38.03	61.37	-23.34	19.63	Neutral	-	18.40	9.64	0.12	9.87			
AV	261.871k	28.33	51.37	-23.04	19.63	Neutral	-	8.70	9.64	0.12	9.87			
QP	475.741k	40.13	56.42	-16.29	19.63	Neutral	-	20.50	9.63	0.13	9.87			
AV	475.741k	35.67	46.42	-10.75	19.63	Neutral	"Worst"	16.04	9.63	0.13	9.87			
QP	1.153M	32.18	56.00	-23.82	19.63	Neutral	-	12.55	9.63	0.12	9.88			
AV	1.153M	28.90	46.00	-17.10	19.63	Neutral	-	9.27	9.63	0.12	9.88			
QP	3.515M	29.37	56.00	-26.63	19.72	Neutral	-	9.65	9.66	0.18	9.88			
AV	3.515M	24.95	46.00	-21.05	19.72	Neutral	-	5.23	9.66	0.18	9.88			
QP	13.336M	34.49	60.00	-25.51	19.89	Neutral	-	14.60	9.71	0.30	9.88			
AV	13.336M	31.41	50.00	-18.59	19.89	Neutral	-	11.52	9.71	0.30	9.88			



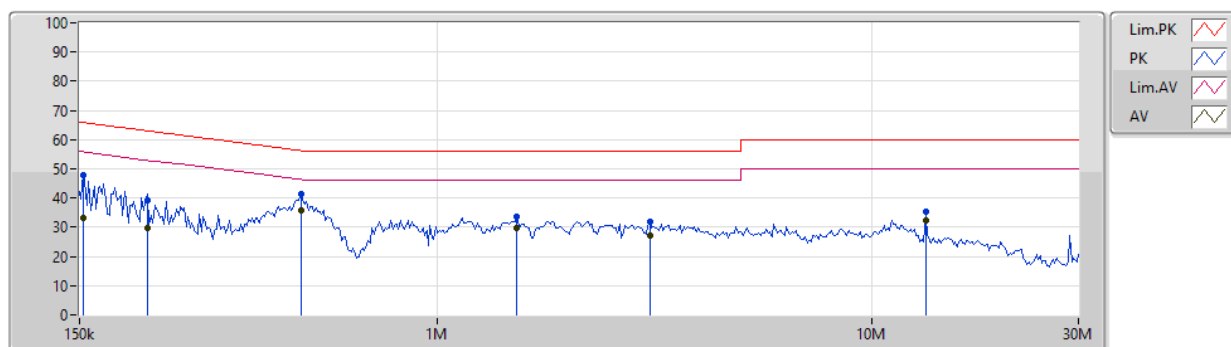
AC Power-line Conducted Emissions_ Non Beamforming_Sample 1_Radio2

Appendix A.2

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	Non Beamforming ; Sample 1 ; PoE mode ; Radio2 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	47.95	65.83	-17.88	19.64	Line	-	28.31	9.66	0.11	9.87			
AV	153.015k	33.19	55.83	-22.64	19.64	Line	-	13.55	9.66	0.11	9.87			
QP	214.615k	39.06	63.02	-23.96	19.63	Line	-	19.43	9.65	0.11	9.87			
AV	214.615k	29.83	53.02	-23.19	19.63	Line	-	10.20	9.65	0.11	9.87			
QP	485.303k	41.45	56.25	-14.80	19.64	Line	-	21.81	9.64	0.13	9.87			
AV	485.303k	35.94	46.25	-10.31	19.64	Line	"Worst"	16.30	9.64	0.13	9.87			
QP	1.524M	33.65	56.00	-22.35	19.65	Line	-	14.00	9.65	0.13	9.87			
AV	1.524M	29.75	46.00	-16.25	19.65	Line	-	10.10	9.65	0.13	9.87			
QP	3.089M	31.80	56.00	-24.20	19.71	Line	-	12.09	9.66	0.17	9.88			
AV	3.089M	27.01	46.00	-18.99	19.71	Line	-	7.30	9.66	0.17	9.88			
QP	13.336M	35.20	60.00	-24.80	19.85	Line	-	15.35	9.67	0.30	9.88			
AV	13.336M	32.24	50.00	-17.76	19.85	Line	-	12.39	9.67	0.30	9.88			



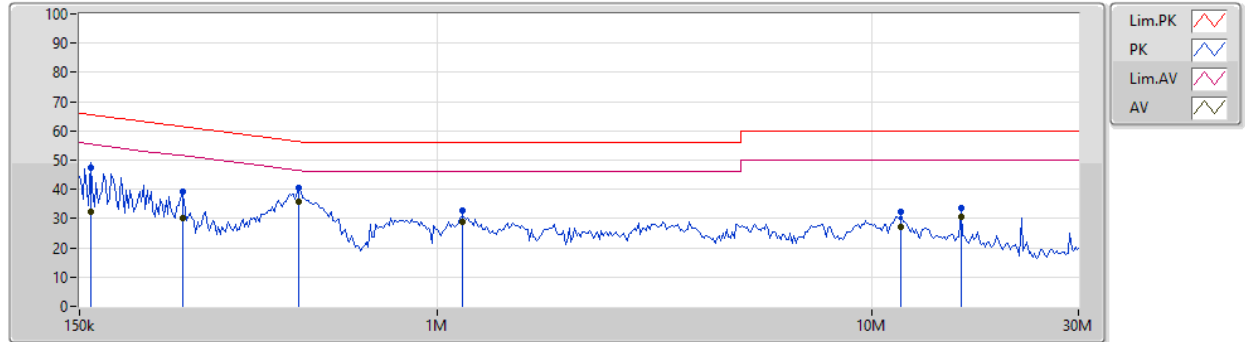
AC Power-line Conducted Emissions_ Non Beamforming_Sample 1_Radio2

Appendix A.2

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Neutral
Operating Function	Non Beamforming ; Sample 1 ; PoE mode ; Radio2 WIFI 5G RX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159.228k	47.34	65.50	-18.16	19.63	Neutral	-	27.71	9.65	0.11	9.87			
AV	159.228k	32.21	55.50	-23.29	19.63	Neutral	-	12.58	9.65	0.11	9.87			
QP	259.279k	39.29	61.45	-22.16	19.63	Neutral	-	19.66	9.64	0.12	9.87			
AV	259.279k	30.02	51.45	-21.43	19.63	Neutral	-	10.39	9.64	0.12	9.87			
QP	480.498k	40.41	56.33	-15.92	19.63	Neutral	-	20.78	9.63	0.13	9.87			
AV	480.498k	35.84	46.33	-10.49	19.63	Neutral	"Worst"	16.21	9.63	0.13	9.87			
QP	1.142M	32.56	56.00	-23.44	19.63	Neutral	-	12.93	9.63	0.12	9.88			
AV	1.142M	28.95	46.00	-17.05	19.63	Neutral	-	9.32	9.63	0.12	9.88			
QP	11.718M	32.16	60.00	-27.84	19.87	Neutral	-	12.29	9.70	0.29	9.88			
AV	11.718M	27.00	50.00	-23.00	19.87	Neutral	-	7.13	9.70	0.29	9.88			
QP	16.112M	33.82	60.00	-26.18	19.91	Neutral	-	13.91	9.71	0.32	9.88			
AV	16.112M	30.45	50.00	-19.55	19.91	Neutral	-	10.54	9.71	0.32	9.88			



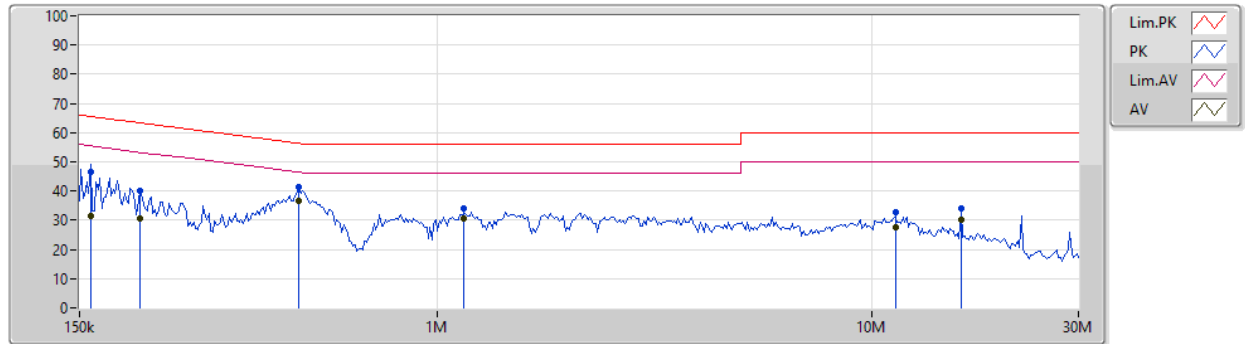
AC Power-line Conducted Emissions_ Non Beamforming_Sample 1_Radio2

Appendix A.2

AC Power-line Conducted Emissions Result

Operating Mode	2	Power Phase	Line
Operating Function	Non Beamforming ; Sample 1 ; PoE mode ; Radio2 WIFI 5G RX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159.228k	46.68	65.50	-18.82	19.64	Line	-	27.04	9.66	0.11	9.87			
AV	159.228k	31.53	55.50	-23.97	19.64	Line	-	11.89	9.66	0.11	9.87			
QP	206.241k	40.26	63.36	-23.10	19.63	Line	-	20.63	9.65	0.11	9.87			
AV	206.241k	30.39	53.36	-22.97	19.63	Line	-	10.76	9.65	0.11	9.87			
QP	480.498k	41.24	56.33	-15.09	19.64	Line	-	21.60	9.64	0.13	9.87			
AV	480.498k	36.60	46.33	-9.73	19.64	Line	"Worst"	16.96	9.64	0.13	9.87			
QP	1.153M	34.07	56.00	-21.93	19.64	Line	-	14.43	9.64	0.12	9.88			
AV	1.153M	30.71	46.00	-15.29	19.64	Line	-	11.07	9.64	0.12	9.88			
QP	11.373M	32.62	60.00	-27.38	19.84	Line	-	12.78	9.68	0.28	9.88			
AV	11.373M	27.40	50.00	-22.60	19.84	Line	-	7.56	9.68	0.28	9.88			
QP	16.112M	34.02	60.00	-25.98	19.86	Line	-	14.16	9.66	0.32	9.88			
AV	16.112M	29.99	50.00	-20.01	19.86	Line	-	10.13	9.66	0.32	9.88			



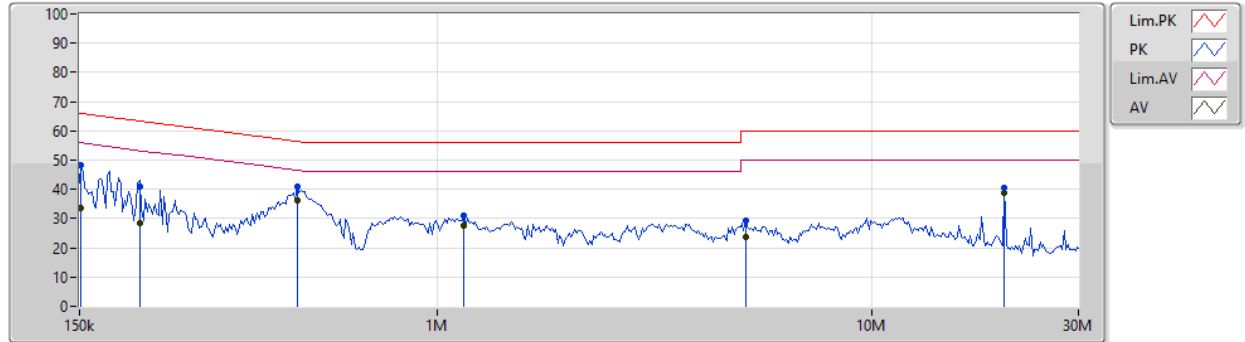
AC Power-line Conducted Emissions_ Non Beamforming_Sample 2_Radio1

Appendix A.3

AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Neutral
Operating Function	Non Beamforming ; Sample 2 ; PoE mode; Radio1 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.5k	48.08	65.92	-17.84	19.63	Neutral	-	28.45	9.65	0.11	9.87			
AV	151.5k	33.63	55.92	-22.29	19.63	Neutral	-	14.00	9.65	0.11	9.87			
QP	206.241k	40.86	63.36	-22.50	19.62	Neutral	-	21.24	9.64	0.11	9.87			
AV	206.241k	28.66	53.36	-24.70	19.62	Neutral	-	9.04	9.64	0.11	9.87			
QP	475.741k	40.95	56.42	-15.47	19.63	Neutral	-	21.32	9.63	0.13	9.87			
AV	475.741k	36.37	46.42	-10.05	19.63	Neutral	"Worst"	16.74	9.63	0.13	9.87			
QP	1.153M	30.84	56.00	-25.16	19.63	Neutral	-	11.21	9.63	0.12	9.88			
AV	1.153M	27.58	46.00	-18.42	19.63	Neutral	-	7.95	9.63	0.12	9.88			
QP	5.131M	29.13	60.00	-30.87	19.75	Neutral	-	9.38	9.67	0.20	9.88			
AV	5.131M	23.55	50.00	-26.45	19.75	Neutral	-	3.80	9.67	0.20	9.88			
QP	20.255M	40.53	60.00	-19.47	19.97	Neutral	-	20.56	9.72	0.36	9.89			
AV	20.255M	38.67	50.00	-11.33	19.97	Neutral	-	18.70	9.72	0.36	9.89			



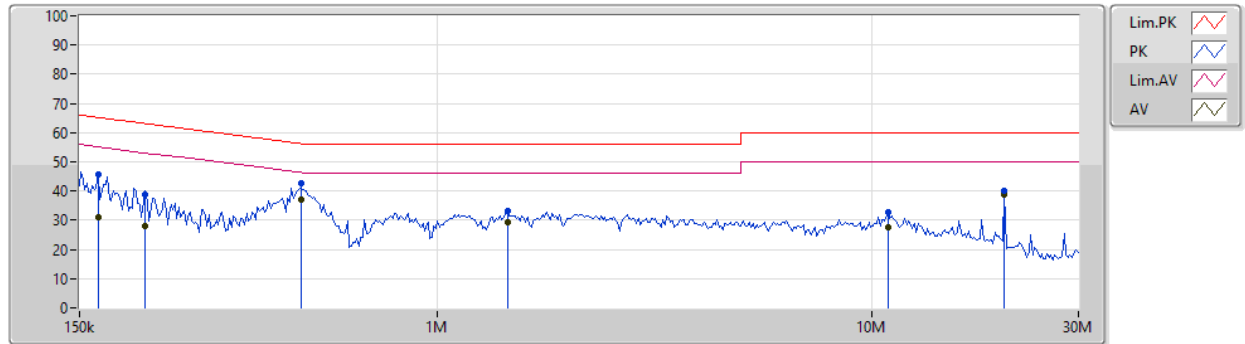
AC Power-line Conducted Emissions_ Non Beamforming_Sample 2_Radio1

Appendix A.3

AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Line
Operating Function	Non Beamforming ; Sample 2 ; PoE mode; Radio1 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	165.693k	45.69	65.18	-19.49	19.64	Line	-	26.05	9.66	0.11	9.87			
AV	165.693k	30.96	55.18	-24.22	19.64	Line	-	11.32	9.66	0.11	9.87			
QP	212.49k	38.97	63.11	-24.14	19.63	Line	-	19.34	9.65	0.11	9.87			
AV	212.49k	27.93	53.11	-25.18	19.63	Line	-	8.30	9.65	0.11	9.87			
QP	485.303k	42.51	56.25	-13.74	19.64	Line	-	22.87	9.64	0.13	9.87			
AV	485.303k	37.12	46.25	-9.13	19.64	Line	"Worst"	17.48	9.64	0.13	9.87			
QP	1.45M	33.05	56.00	-22.95	19.65	Line	-	13.40	9.65	0.13	9.87			
AV	1.45M	29.47	46.00	-16.53	19.65	Line	-	9.82	9.65	0.13	9.87			
QP	10.93M	32.64	60.00	-27.36	19.84	Line	-	12.80	9.68	0.28	9.88			
AV	10.93M	27.40	50.00	-22.60	19.84	Line	-	7.56	9.68	0.28	9.88			
QP	20.255M	40.27	60.00	-19.73	19.89	Line	-	20.38	9.64	0.36	9.89			
AV	20.255M	38.64	50.00	-11.36	19.89	Line	-	18.75	9.64	0.36	9.89			



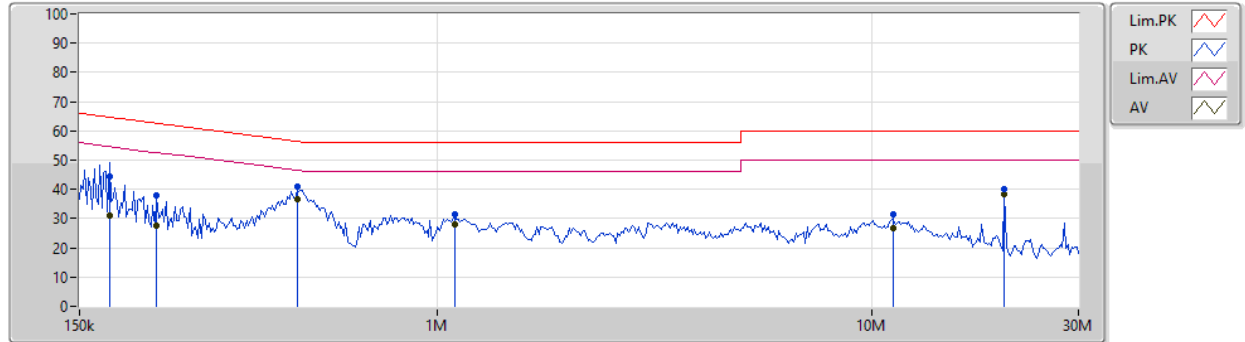
AC Power-line Conducted Emissions_ Non Beamforming_Sample 2_Radio1

Appendix A.3

AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Neutral
Operating Function	Non Beamforming ; Sample 2 ; PoE mode; Radio1 WIFI 5G RX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	175.887k	44.20	64.68	-20.48	19.62	Neutral	-	24.58	9.64	0.11	9.87			
AV	175.887k	30.86	54.68	-23.82	19.62	Neutral	-	11.24	9.64	0.11	9.87			
QP	225.563k	37.72	62.62	-24.90	19.63	Neutral	-	18.09	9.64	0.12	9.87			
AV	225.563k	27.65	52.62	-24.97	19.63	Neutral	-	8.02	9.64	0.12	9.87			
QP	475.741k	40.99	56.42	-15.43	19.63	Neutral	-	21.36	9.63	0.13	9.87			
AV	475.741k	36.46	46.42	-9.96	19.63	Neutral	"Worst"	16.83	9.63	0.13	9.87			
QP	1.097M	31.35	56.00	-24.65	19.63	Neutral	-	11.72	9.63	0.12	9.88			
AV	1.097M	27.90	46.00	-18.10	19.63	Neutral	-	8.27	9.63	0.12	9.88			
QP	11.261M	31.50	60.00	-28.50	19.86	Neutral	-	11.64	9.70	0.28	9.88			
AV	11.261M	26.54	50.00	-23.46	19.86	Neutral	-	6.68	9.70	0.28	9.88			
QP	20.255M	40.27	60.00	-19.73	19.97	Neutral	-	20.30	9.72	0.36	9.89			
AV	20.255M	38.39	50.00	-11.61	19.97	Neutral	-	18.42	9.72	0.36	9.89			



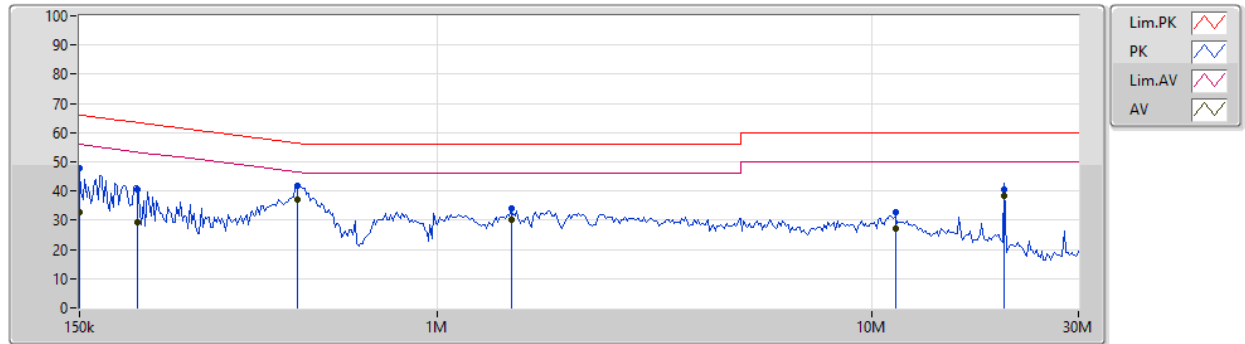
AC Power-line Conducted Emissions_ Non Beamforming_Sample 2_Radio1

Appendix A.3

AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Line
Operating Function	Non Beamforming ; Sample 2 ; PoE mode; Radio1 WIFI 5G RX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	47.65	66.00	-18.35	19.64	Line	-	28.01	9.66	0.11	9.87			
AV	150k	32.62	56.00	-23.38	19.64	Line	-	12.98	9.66	0.11	9.87			
QP	204.199k	40.49	63.44	-22.95	19.63	Line	-	20.86	9.65	0.11	9.87			
AV	204.199k	29.27	53.44	-24.17	19.63	Line	-	9.64	9.65	0.11	9.87			
QP	475.741k	41.98	56.42	-14.44	19.64	Line	-	22.34	9.64	0.13	9.87			
AV	475.741k	37.18	46.42	-9.24	19.64	Line	"Worst"	17.54	9.64	0.13	9.87			
QP	1.479M	33.97	56.00	-22.03	19.65	Line	-	14.32	9.65	0.13	9.87			
AV	1.479M	30.22	46.00	-15.78	19.65	Line	-	10.57	9.65	0.13	9.87			
QP	11.373M	32.59	60.00	-27.41	19.84	Line	-	12.75	9.68	0.28	9.88			
AV	11.373M	27.34	50.00	-22.66	19.84	Line	-	7.50	9.68	0.28	9.88			
QP	20.255M	40.55	60.00	-19.45	19.89	Line	-	20.66	9.64	0.36	9.89			
AV	20.255M	38.52	50.00	-11.48	19.89	Line	-	18.63	9.64	0.36	9.89			



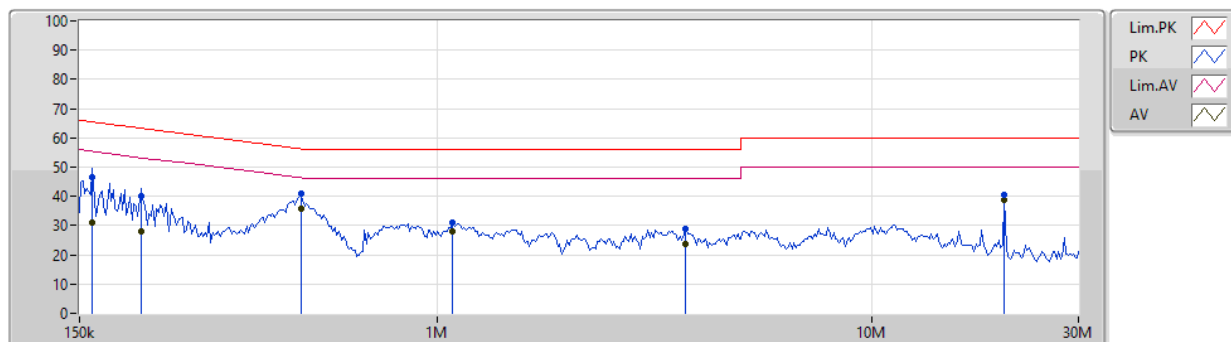
AC Power-line Conducted Emissions_ Non Beamforming_Sample 2_Radio2

Appendix A.4

AC Power-line Conducted Emissions Result

Operating Mode	4	Power Phase	Neutral
Operating Function	Non Beamforming ; Sample 2 ; PoE mode ; Radio2 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	160.82k	46.56	65.43	-18.87	19.63	Neutral	-	26.93	9.65	0.11	9.87			
AV	160.82k	31.23	55.43	-24.20	19.63	Neutral	-	11.60	9.65	0.11	9.87			
QP	208.304k	40.28	63.27	-22.99	19.62	Neutral	-	20.66	9.64	0.11	9.87			
AV	208.304k	28.09	53.27	-25.18	19.62	Neutral	-	8.47	9.64	0.11	9.87			
QP	485.303k	41.07	56.25	-15.18	19.63	Neutral	-	21.44	9.63	0.13	9.87			
AV	485.303k	35.80	46.25	-10.45	19.63	Neutral	"Worst"	16.17	9.63	0.13	9.87			
QP	1.087M	31.19	56.00	-24.81	19.62	Neutral	-	11.57	9.63	0.11	9.88			
AV	1.087M	27.84	46.00	-18.16	19.62	Neutral	-	8.22	9.63	0.11	9.88			
QP	3.732M	28.69	56.00	-27.31	19.72	Neutral	-	8.97	9.66	0.18	9.88			
AV	3.732M	23.70	46.00	-22.30	19.72	Neutral	-	3.98	9.66	0.18	9.88			
QP	20.255M	40.43	60.00	-19.57	19.97	Neutral	-	20.46	9.72	0.36	9.89			
AV	20.255M	38.61	50.00	-11.39	19.97	Neutral	-	18.64	9.72	0.36	9.89			



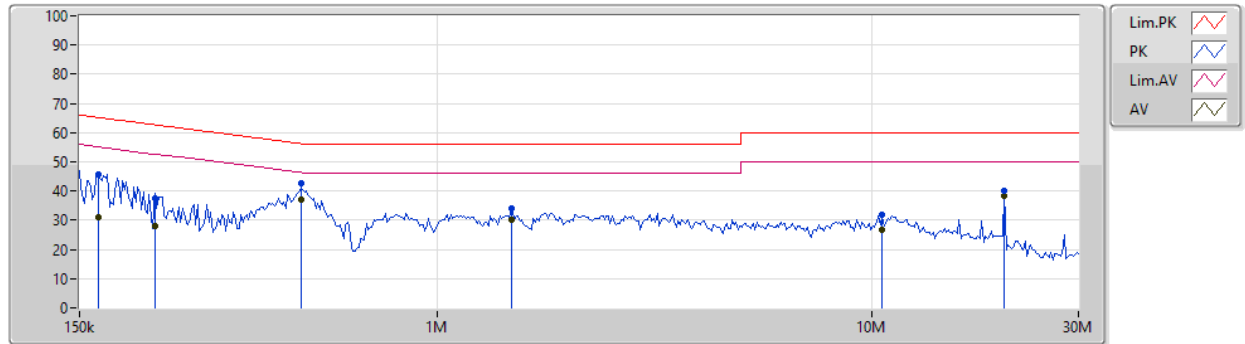
AC Power-line Conducted Emissions_ **Non Beamforming_Sample 2_Radio2**

Appendix A.4

AC Power-line Conducted Emissions Result

Operating Mode	4	Power Phase	Line
Operating Function	Non Beamforming ; Sample 2 ; PoE mode ; Radio2 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	165.693k	45.83	65.18	-19.35	19.64	Line	-	26.19	9.66	0.11	9.87			
AV	165.693k	30.93	55.18	-24.25	19.64	Line	-	11.29	9.66	0.11	9.87			
QP	223.33k	37.52	62.69	-25.17	19.63	Line	-	17.89	9.65	0.11	9.87			
AV	223.33k	28.00	52.69	-24.69	19.63	Line	-	8.37	9.65	0.11	9.87			
QP	485.303k	42.53	56.25	-13.72	19.64	Line	-	22.89	9.64	0.13	9.87			
AV	485.303k	37.15	46.25	-9.10	19.64	Line	"Worst"	17.51	9.64	0.13	9.87			
QP	1.479M	34.13	56.00	-21.87	19.65	Line	-	14.48	9.65	0.13	9.87			
AV	1.479M	30.33	46.00	-15.67	19.65	Line	-	10.68	9.65	0.13	9.87			
QP	10.608M	32.00	60.00	-28.00	19.85	Line	-	12.15	9.69	0.28	9.88			
AV	10.608M	26.78	50.00	-23.22	19.85	Line	-	6.93	9.69	0.28	9.88			
QP	20.255M	40.29	60.00	-19.71	19.89	Line	-	20.40	9.64	0.36	9.89			
AV	20.255M	38.55	50.00	-11.45	19.89	Line	-	18.66	9.64	0.36	9.89			



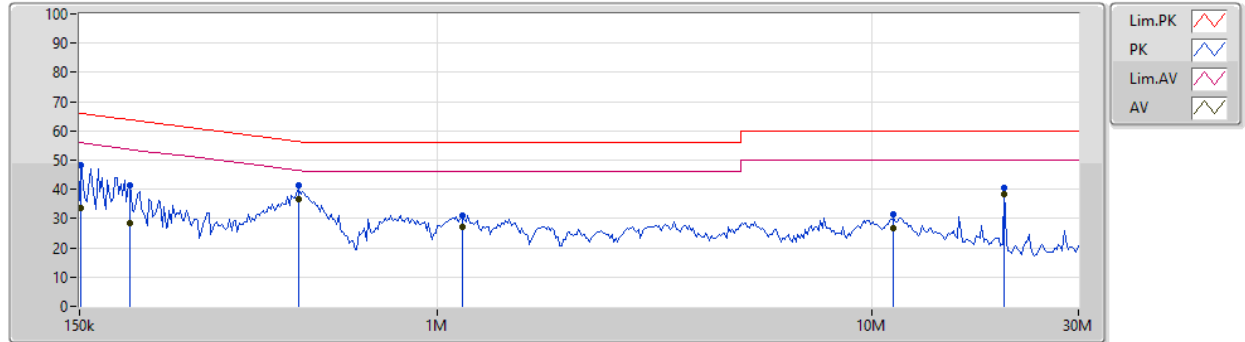
AC Power-line Conducted Emissions_ **Non Beamforming_Sample 2_Radio2**

Appendix A.4

AC Power-line Conducted Emissions Result

Operating Mode	4	Power Phase	Neutral
Operating Function	Non Beamforming ; Sample 2 ; PoE mode ; Radio2 WIFI 5G RX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.5k	48.39	65.92	-17.53	19.63	Neutral	-	28.76	9.65	0.11	9.87			
AV	151.5k	33.56	55.92	-22.36	19.63	Neutral	-	13.93	9.65	0.11	9.87			
QP	196.231k	41.33	63.76	-22.43	19.62	Neutral	-	21.71	9.64	0.11	9.87			
AV	196.231k	28.50	53.76	-25.26	19.62	Neutral	-	8.88	9.64	0.11	9.87			
QP	480.498k	41.24	56.33	-15.09	19.63	Neutral	-	21.61	9.63	0.13	9.87			
AV	480.498k	36.59	46.33	-9.74	19.63	Neutral	"Worst"	16.96	9.63	0.13	9.87			
QP	1.142M	30.91	56.00	-25.09	19.63	Neutral	-	11.28	9.63	0.12	9.88			
AV	1.142M	27.18	46.00	-18.82	19.63	Neutral	-	7.55	9.63	0.12	9.88			
QP	11.261M	31.55	60.00	-28.45	19.86	Neutral	-	11.69	9.70	0.28	9.88			
AV	11.261M	26.58	50.00	-23.42	19.86	Neutral	-	6.72	9.70	0.28	9.88			
QP	20.255M	40.71	60.00	-19.29	19.97	Neutral	-	20.74	9.72	0.36	9.89			
AV	20.255M	38.50	50.00	-11.50	19.97	Neutral	-	18.53	9.72	0.36	9.89			



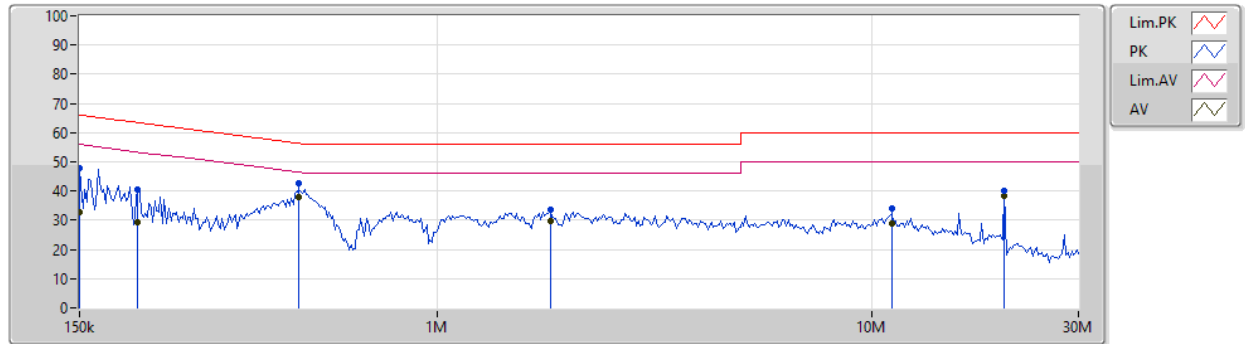
AC Power-line Conducted Emissions_ Non Beamforming_Sample 2_Radio2

Appendix A.4

AC Power-line Conducted Emissions Result

Operating Mode	4	Power Phase	Line
Operating Function	Non Beamforming ; Sample 2 ; PoE mode ; Radio2 WIFI 5G RX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	47.69	66.00	-18.31	19.64	Line	-	28.05	9.66	0.11	9.87			
AV	150k	32.58	56.00	-23.42	19.64	Line	-	12.94	9.66	0.11	9.87			
QP	204.199k	40.36	63.44	-23.08	19.63	Line	-	20.73	9.65	0.11	9.87			
AV	204.199k	29.20	53.44	-24.24	19.63	Line	-	9.57	9.65	0.11	9.87			
QP	480.498k	42.62	56.33	-13.71	19.64	Line	-	22.98	9.64	0.13	9.87			
AV	480.498k	37.79	46.33	-8.54	19.64	Line	"Worst"	18.15	9.64	0.13	9.87			
QP	1.823M	33.74	56.00	-22.26	19.66	Line	-	14.08	9.65	0.14	9.87			
AV	1.823M	29.60	46.00	-16.40	19.66	Line	-	9.94	9.65	0.14	9.87			
QP	11.149M	33.98	60.00	-26.02	19.84	Line	-	14.14	9.68	0.28	9.88			
AV	11.149M	28.87	50.00	-21.13	19.84	Line	-	9.03	9.68	0.28	9.88			
QP	20.255M	40.24	60.00	-19.76	19.89	Line	-	20.35	9.64	0.36	9.89			
AV	20.255M	38.34	50.00	-11.66	19.89	Line	-	18.45	9.64	0.36	9.89			



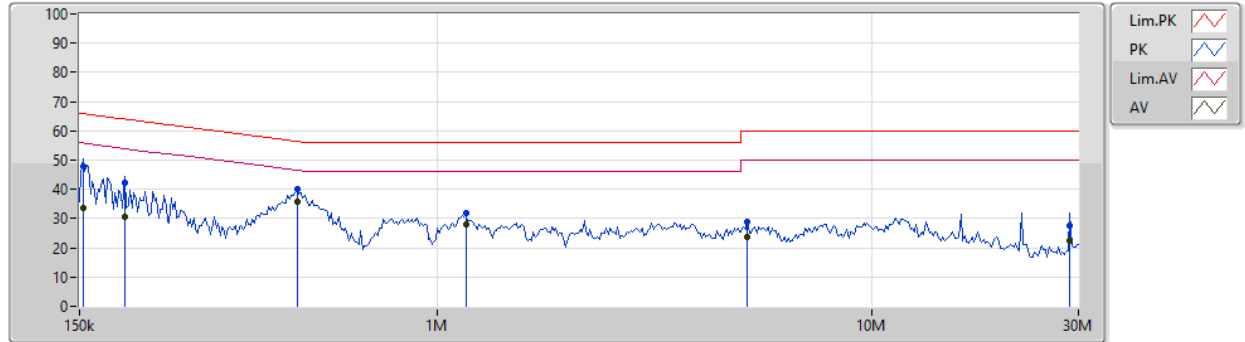
AC Power-line Conducted Emissions_ Beamforming_Sample 1_Radio1

Appendix A.5

AC Power-line Conducted Emissions Result

Operating Mode	5	Power Phase	Neutral
Operating Function	Beamforming ; Sample 1 ; PoE mode; Radio1 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	47.74	65.83	-18.09	19.63	Neutral	-	28.11	9.65	0.11	9.87			
AV	153.015k	33.77	55.83	-22.06	19.63	Neutral	-	14.14	9.65	0.11	9.87			
QP	190.46k	42.06	64.01	-21.95	19.62	Neutral	-	22.44	9.64	0.11	9.87			
AV	190.46k	30.43	54.01	-23.58	19.62	Neutral	-	10.81	9.64	0.11	9.87			
QP	475.741k	40.11	56.42	-16.31	19.63	Neutral	-	20.48	9.63	0.13	9.87			
AV	475.741k	35.64	46.42	-10.78	19.63	Neutral	"Worst"	16.01	9.63	0.13	9.87			
QP	1.165M	31.72	56.00	-24.28	19.63	Neutral	-	12.09	9.63	0.12	9.88			
AV	1.165M	28.08	46.00	-17.92	19.63	Neutral	-	8.45	9.63	0.12	9.88			
QP	5.182M	28.82	60.00	-31.18	19.75	Neutral	-	9.07	9.67	0.20	9.88			
AV	5.182M	23.81	50.00	-26.19	19.75	Neutral	-	4.06	9.67	0.20	9.88			
QP	28.693M	27.58	60.00	-32.42	19.99	Neutral	-	7.59	9.67	0.44	9.88			
AV	28.693M	22.23	50.00	-27.77	19.99	Neutral	-	2.24	9.67	0.44	9.88			



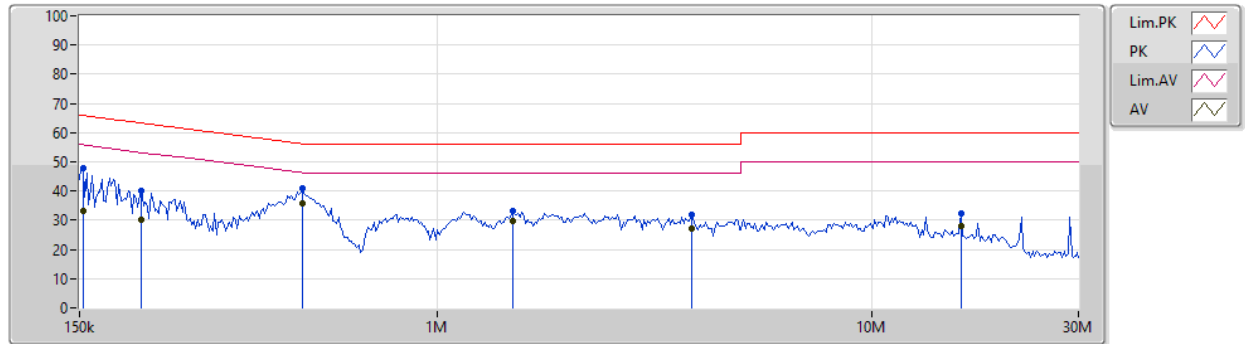
AC Power-line Conducted Emissions_ Beamforming_Sample 1_Radio1

Appendix A.5

AC Power-line Conducted Emissions Result

Operating Mode	5	Power Phase	Line
Operating Function	Beamforming ; Sample 1 ; PoE mode; Radio1 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	47.63	65.83	-18.20	19.64	Line	-	27.99	9.66	0.11	9.87			
AV	153.015k	33.03	55.83	-22.80	19.64	Line	-	13.39	9.66	0.11	9.87			
QP	208.304k	40.01	63.27	-23.26	19.63	Line	-	20.38	9.65	0.11	9.87			
AV	208.304k	30.02	53.27	-23.25	19.63	Line	-	10.39	9.65	0.11	9.87			
QP	490.156k	41.06	56.17	-15.11	19.64	Line	-	21.42	9.64	0.13	9.87			
AV	490.156k	35.68	46.17	-10.49	19.64	Line	"Worst"	16.04	9.64	0.13	9.87			
QP	1.494M	33.05	56.00	-22.95	19.65	Line	-	13.40	9.65	0.13	9.87			
AV	1.494M	29.74	46.00	-16.26	19.65	Line	-	10.09	9.65	0.13	9.87			
QP	3.845M	31.88	56.00	-24.12	19.73	Line	-	12.15	9.66	0.19	9.88			
AV	3.845M	26.95	46.00	-19.05	19.73	Line	-	7.22	9.66	0.19	9.88			
QP	16.112M	32.42	60.00	-27.58	19.86	Line	-	12.56	9.66	0.32	9.88			
AV	16.112M	28.22	50.00	-21.78	19.86	Line	-	8.36	9.66	0.32	9.88			



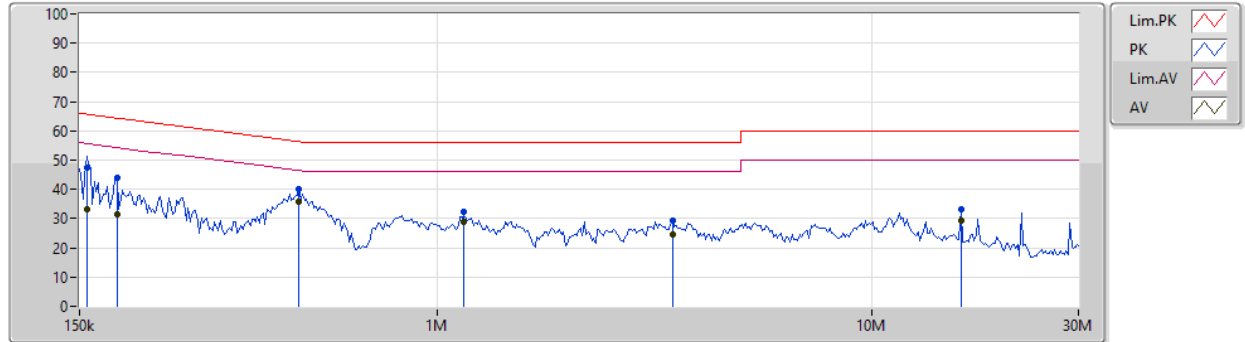
AC Power-line Conducted Emissions_ Beamforming_Sample 1_Radio2

Appendix A.6

AC Power-line Conducted Emissions Result

Operating Mode	6	Power Phase	Neutral
Operating Function	Beamforming ; Sample 1 ; PoE mode; Radio2 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.091k	47.62	65.67	-18.05	19.63	Neutral	-	27.99	9.65	0.11	9.87			
AV	156.091k	33.34	55.67	-22.33	19.63	Neutral	-	13.71	9.65	0.11	9.87			
QP	183.029k	43.78	64.34	-20.56	19.62	Neutral	-	24.16	9.64	0.11	9.87			
AV	183.029k	31.59	54.34	-22.75	19.62	Neutral	-	11.97	9.64	0.11	9.87			
QP	480.498k	40.16	56.33	-16.17	19.63	Neutral	-	20.53	9.63	0.13	9.87			
AV	480.498k	35.65	46.33	-10.68	19.63	Neutral	"Worst"	16.02	9.63	0.13	9.87			
QP	1.153M	32.23	56.00	-23.77	19.63	Neutral	-	12.60	9.63	0.12	9.88			
AV	1.153M	29.01	46.00	-16.99	19.63	Neutral	-	9.38	9.63	0.12	9.88			
QP	3.481M	29.33	56.00	-26.67	19.72	Neutral	-	9.61	9.66	0.18	9.88			
AV	3.481M	24.72	46.00	-21.28	19.72	Neutral	-	5.00	9.66	0.18	9.88			
QP	16.112M	33.29	60.00	-26.71	19.91	Neutral	-	13.38	9.71	0.32	9.88			
AV	16.112M	29.32	50.00	-20.68	19.91	Neutral	-	9.41	9.71	0.32	9.88			



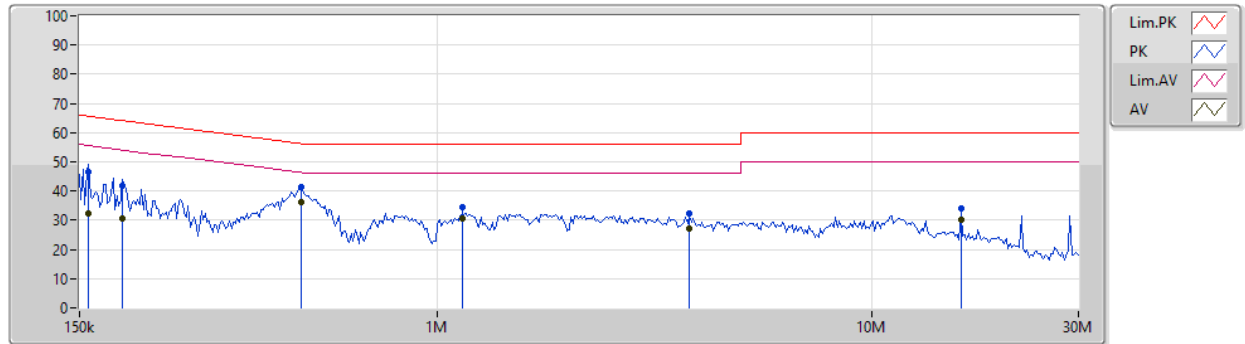
AC Power-line Conducted Emissions_ Beamforming_Sample 1_Radio2

Appendix A.6

AC Power-line Conducted Emissions Result

Operating Mode	6	Power Phase	Line
Operating Function	Beamforming ; Sample 1 ; PoE mode; Radio2 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	157.652k	46.70	65.58	-18.88	19.64	Line	-	27.06	9.66	0.11	9.87			
AV	157.652k	32.14	55.58	-23.44	19.64	Line	-	12.50	9.66	0.11	9.87			
QP	188.574k	42.00	64.11	-22.11	19.63	Line	-	22.37	9.65	0.11	9.87			
AV	188.574k	30.61	54.11	-23.50	19.63	Line	-	10.98	9.65	0.11	9.87			
QP	485.303k	41.57	56.25	-14.68	19.64	Line	-	21.93	9.64	0.13	9.87			
AV	485.303k	36.08	46.25	-10.17	19.64	Line	"Worst"	16.44	9.64	0.13	9.87			
QP	1.142M	34.32	56.00	-21.68	19.64	Line	-	14.68	9.64	0.12	9.88			
AV	1.142M	30.62	46.00	-15.38	19.64	Line	-	10.98	9.64	0.12	9.88			
QP	3.807M	32.15	56.00	-23.85	19.72	Line	-	12.43	9.66	0.18	9.88			
AV	3.807M	27.30	46.00	-18.70	19.72	Line	-	7.58	9.66	0.18	9.88			
QP	16.112M	33.96	60.00	-26.04	19.86	Line	-	14.10	9.66	0.32	9.88			
AV	16.112M	30.07	50.00	-19.93	19.86	Line	-	10.21	9.66	0.32	9.88			



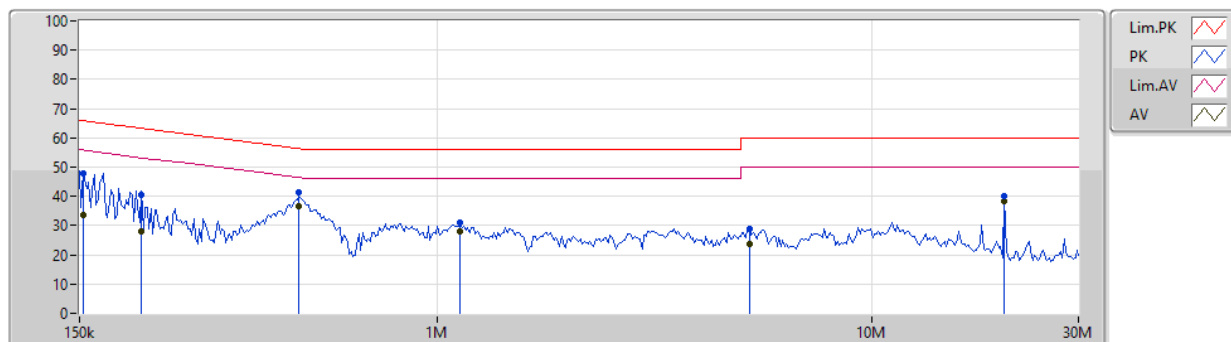
AC Power-line Conducted Emissions_ Beamforming_Sample 2_Radio1

Appendix A.7

AC Power-line Conducted Emissions Result

Operating Mode	7	Power Phase	Neutral
Operating Function	Beamforming ; Sample 2 ; PoE mode; Radio1 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.015k	47.88	65.83	-17.95	19.63	Neutral	-	28.25	9.65	0.11	9.87			
AV	153.015k	33.59	55.83	-22.24	19.63	Neutral	-	13.96	9.65	0.11	9.87			
QP	208.304k	40.31	63.27	-22.96	19.62	Neutral	-	20.69	9.64	0.11	9.87			
AV	208.304k	28.03	53.27	-25.24	19.62	Neutral	-	8.41	9.64	0.11	9.87			
QP	480.498k	41.19	56.33	-15.14	19.63	Neutral	-	21.56	9.63	0.13	9.87			
AV	480.498k	36.64	46.33	-9.69	19.63	Neutral	"Worst"	17.01	9.63	0.13	9.87			
QP	1.131M	31.24	56.00	-24.76	19.63	Neutral	-	11.61	9.63	0.12	9.88			
AV	1.131M	27.91	46.00	-18.09	19.63	Neutral	-	8.28	9.63	0.12	9.88			
QP	5.234M	28.97	60.00	-31.03	19.75	Neutral	-	9.22	9.67	0.20	9.88			
AV	5.234M	23.51	50.00	-26.49	19.75	Neutral	-	3.76	9.67	0.20	9.88			
QP	20.255M	40.21	60.00	-19.79	19.97	Neutral	-	20.24	9.72	0.36	9.89			
AV	20.255M	38.18	50.00	-11.82	19.97	Neutral	-	18.21	9.72	0.36	9.89			



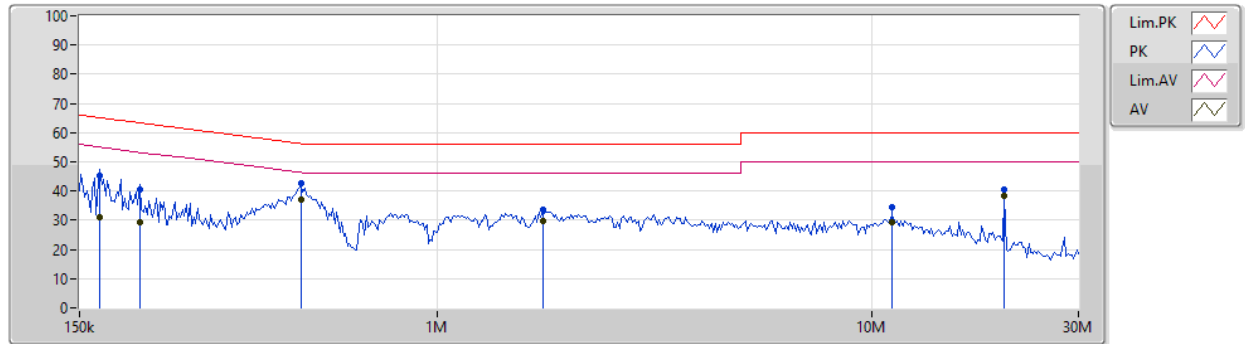
AC Power-line Conducted Emissions_ Beamforming_Sample 2_Radio1

Appendix A.7

AC Power-line Conducted Emissions Result

Operating Mode	7	Power Phase	Line
Operating Function	Beamforming ; Sample 2 ; PoE mode; Radio1 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	167.35k	45.30	65.08	-19.78	19.64	Line	-	25.66	9.66	0.11	9.87			
AV	167.35k	31.23	55.08	-23.85	19.64	Line	-	11.59	9.66	0.11	9.87			
QP	206.241k	40.47	63.36	-22.89	19.63	Line	-	20.84	9.65	0.11	9.87			
AV	206.241k	29.28	53.36	-24.08	19.63	Line	-	9.65	9.65	0.11	9.87			
QP	485.303k	42.62	56.25	-13.63	19.64	Line	-	22.98	9.64	0.13	9.87			
AV	485.303k	37.23	46.25	-9.02	19.64	Line	"Worst"	17.59	9.64	0.13	9.87			
QP	1.752M	33.71	56.00	-22.29	19.66	Line	-	14.05	9.65	0.14	9.87			
AV	1.752M	29.64	46.00	-16.36	19.66	Line	-	9.98	9.65	0.14	9.87			
QP	11.149M	34.44	60.00	-25.56	19.84	Line	-	14.60	9.68	0.28	9.88			
AV	11.149M	29.20	50.00	-20.80	19.84	Line	-	9.36	9.68	0.28	9.88			
QP	20.255M	40.53	60.00	-19.47	19.89	Line	-	20.64	9.64	0.36	9.89			
AV	20.255M	38.30	50.00	-11.70	19.89	Line	-	18.41	9.64	0.36	9.89			



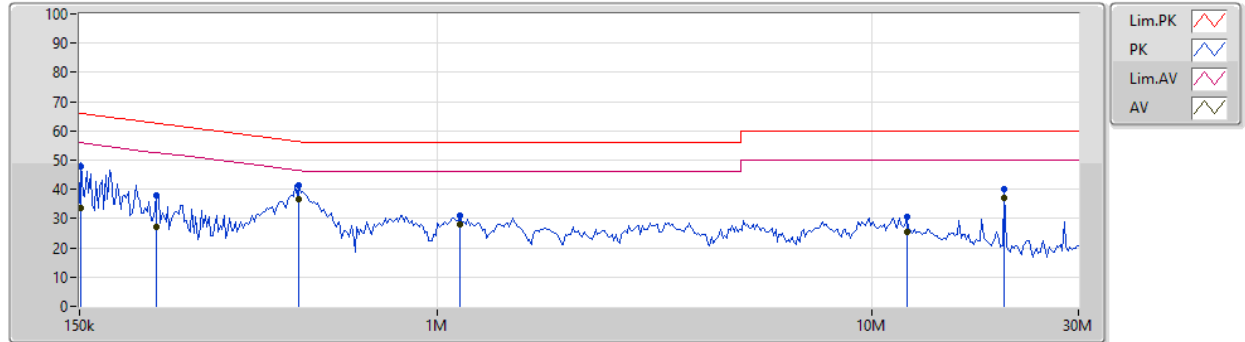
AC Power-line Conducted Emissions_ Beamforming_Sample 2_Radio2

Appendix A.8

AC Power-line Conducted Emissions Result

Operating Mode	8	Power Phase	Neutral
Operating Function	Beamforming ; Sample 2 ; PoE mode; Radio2 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.5k	48.04	65.92	-17.88	19.63	Neutral	-	28.41	9.65	0.11	9.87			
AV	151.5k	33.52	55.92	-22.40	19.63	Neutral	-	13.89	9.65	0.11	9.87			
QP	225.563k	37.77	62.62	-24.85	19.63	Neutral	-	18.14	9.64	0.12	9.87			
AV	225.563k	27.30	52.62	-25.32	19.63	Neutral	-	7.67	9.64	0.12	9.87			
QP	480.498k	41.28	56.33	-15.05	19.63	Neutral	-	21.65	9.63	0.13	9.87			
AV	480.498k	36.66	46.33	-9.67	19.63	Neutral	"Worst"	17.03	9.63	0.13	9.87			
QP	1.131M	31.16	56.00	-24.84	19.63	Neutral	-	11.53	9.63	0.12	9.88			
AV	1.131M	27.84	46.00	-18.16	19.63	Neutral	-	8.21	9.63	0.12	9.88			
QP	12.073M	30.49	60.00	-29.51	19.88	Neutral	-	10.61	9.71	0.29	9.88			
AV	12.073M	25.47	50.00	-24.53	19.88	Neutral	-	5.59	9.71	0.29	9.88			
QP	20.255M	40.17	60.00	-19.83	19.97	Neutral	-	20.20	9.72	0.36	9.89			
AV	20.255M	36.98	50.00	-13.02	19.97	Neutral	-	17.01	9.72	0.36	9.89			



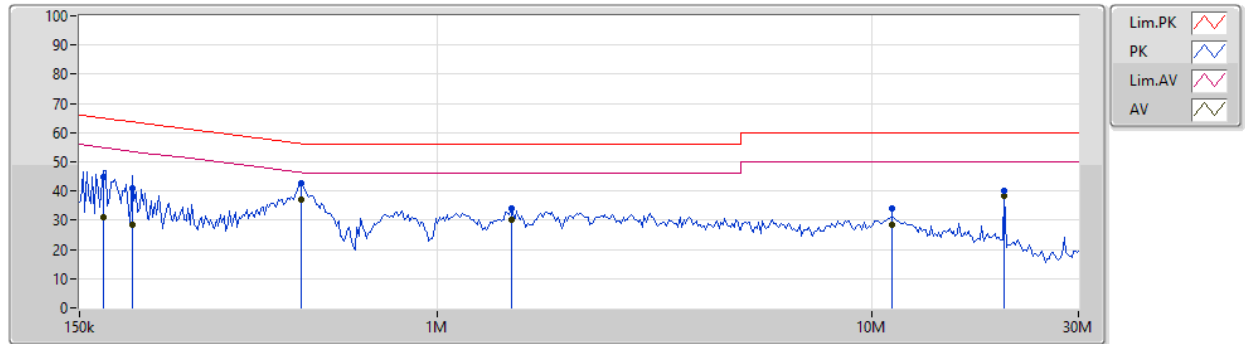
AC Power-line Conducted Emissions_ Beamforming_Sample 2_Radio2

Appendix A.8

AC Power-line Conducted Emissions Result

Operating Mode	8	Power Phase	Line
Operating Function	Beamforming ; Sample 2 ; PoE mode; Radio2 WIFI 5G TX		

07/03/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	170.714k	44.77	64.93	-20.16	19.64	Line	-	25.13	9.66	0.11	9.87			
AV	170.714k	31.25	54.93	-23.68	19.64	Line	-	11.61	9.66	0.11	9.87			
QP	198.194k	40.79	63.69	-22.90	19.63	Line	-	21.16	9.65	0.11	9.87			
AV	198.194k	28.64	53.69	-25.05	19.63	Line	-	9.01	9.65	0.11	9.87			
QP	485.303k	42.71	56.25	-13.54	19.64	Line	-	23.07	9.64	0.13	9.87			
AV	485.303k	37.27	46.25	-8.98	19.64	Line	"Worst"	17.63	9.64	0.13	9.87			
QP	1.479M	34.14	56.00	-21.86	19.65	Line	-	14.49	9.65	0.13	9.87			
AV	1.479M	30.26	46.00	-15.74	19.65	Line	-	10.61	9.65	0.13	9.87			
QP	11.149M	33.86	60.00	-26.14	19.84	Line	-	14.02	9.68	0.28	9.88			
AV	11.149M	28.66	50.00	-21.34	19.84	Line	-	8.82	9.68	0.28	9.88			
QP	20.255M	40.29	60.00	-19.71	19.89	Line	-	20.40	9.64	0.36	9.89			
AV	20.255M	38.34	50.00	-11.66	19.89	Line	-	18.45	9.64	0.36	9.89			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.36M	16.792M	16M8D1D	21.3M	16.762M
802.11ac VHT20_Nss1,(MCS0)_1TX	21.57M	17.871M	17M9D1D	21.51M	17.841M
802.11ac VHT40_Nss1,(MCS0)_1TX	40.44M	36.462M	36M5D1D	40.38M	36.462M
802.11ac VHT80_Nss1,(MCS0)_1TX	82.08M	75.682M	75M7D1D	82.08M	75.682M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.48M	19.01M	19M0D1D	21.36M	19.01M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.14M	37.541M	37M5D1D	40.02M	37.481M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.08M	77.121M	77M1D1D	82.08M	77.121M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	36.63M	19.58M	19M6D1D	21.84M	16.852M
802.11ac VHT20_Nss1,(MCS0)_1TX	38.25M	19.1M	19M1D1D	21.57M	17.901M
802.11ac VHT40_Nss1,(MCS0)_1TX	72.96M	37.001M	37M0D1D	40.26M	36.522M
802.11ac VHT80_Nss1,(MCS0)_1TX	81.84M	75.922M	75M9D1D	81.84M	75.922M
802.11ax HEW20_Nss1,(MCS0)_1TX	41.1M	19.79M	19M8D1D	21.45M	19.04M
802.11ax HEW40_Nss1,(MCS0)_1TX	57.18M	37.781M	37M8D1D	40.08M	37.601M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.08M	77.121M	77M1D1D	82.08M	77.121M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	37.2M	19.4M	19M4D1D	21.24M	14.518M
802.11ac VHT20_Nss1,(MCS0)_1TX	36.99M	18.981M	19M0D1D	21.54M	14.483M
802.11ac VHT40_Nss1,(MCS0)_1TX	80.52M	38.201M	38M2D1D	40.32M	33.846M
802.11ac VHT80_Nss1,(MCS0)_1TX	142.56M	76.522M	76M5D1D	81.96M	73.743M
802.11ax HEW20_Nss1,(MCS0)_1TX	41.79M	19.73M	19M7D1D	21.42M	14.903M
802.11ax HEW40_Nss1,(MCS0)_1TX	75.6M	38.921M	38M9D1D	40.02M	34.408M
802.11ax HEW80_Nss1,(MCS0)_1TX	140.76M	77.721M	77M7D1D	81.96M	74.285M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.38M	24.858M	24M9D1D	3.18M	10.27M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.58M	24.828M	24M8D1D	3.795M	8.891M
802.11ac VHT40_Nss1,(MCS0)_1TX	36.3M	55.592M	55M6D1D	3.18M	18.621M
802.11ac VHT80_Nss1,(MCS0)_1TX	75.12M	77.121M	77M1D1D	3.165M	25.532M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.99M	26.297M	26M3D1D	4.485M	10.15M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.5M	51.754M	51M8D1D	3.795M	21.469M
802.11ax HEW80_Nss1,(MCS0)_1TX	75.96M	78.201M	78M2D1D	3.555M	27.166M

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	21.36M	16.762M
5200MHz	Pass	Inf	21.33M	16.792M
5240MHz	Pass	Inf	21.3M	16.762M
5260MHz	Pass	Inf	36.06M	18.981M
5300MHz	Pass	Inf	36.63M	19.58M
5320MHz	Pass	Inf	21.84M	16.852M
5500MHz	Pass	Inf	21.39M	16.852M
5580MHz	Pass	Inf	37.2M	19.4M
5700MHz	Pass	Inf	21.24M	16.792M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	23.765M	14.518M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	10.27M
5745MHz	Pass	500k	16.32M	24.858M
5785MHz	Pass	500k	16.38M	16.792M
5825MHz	Pass	500k	16.35M	16.852M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.51M	17.841M
5200MHz	Pass	Inf	21.57M	17.841M
5240MHz	Pass	Inf	21.57M	17.871M
5260MHz	Pass	Inf	38.25M	19.1M
5300MHz	Pass	Inf	34.32M	18.741M
5320MHz	Pass	Inf	21.57M	17.901M
5500MHz	Pass	Inf	21.54M	17.871M
5580MHz	Pass	Inf	36.99M	18.981M
5700MHz	Pass	Inf	21.57M	17.841M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	22.855M	14.483M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.795M	8.891M
5745MHz	Pass	500k	17.55M	24.828M
5785MHz	Pass	500k	17.58M	17.871M
5825MHz	Pass	500k	17.58M	17.871M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.44M	36.462M
5230MHz	Pass	Inf	40.38M	36.462M
5270MHz	Pass	Inf	72.96M	37.001M
5310MHz	Pass	Inf	40.26M	36.522M
5510MHz	Pass	Inf	40.32M	36.462M
5550MHz	Pass	Inf	80.52M	38.201M
5670MHz	Pass	Inf	50.88M	36.702M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	54.975M	33.846M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	18.621M
5755MHz	Pass	500k	36.3M	55.592M
5795MHz	Pass	500k	36.06M	54.273M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.08M	75.682M



EBW
Non-Beamforming_Outdoor_Sample 1_Radio 1_1T1S

Appendix B.1

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
5290MHz	Pass	Inf	81.84M	75.922M
5530MHz	Pass	Inf	81.96M	75.802M
5610MHz	Pass	Inf	142.56M	76.522M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	117.568M	73.743M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.165M	25.532M
5775MHz	Pass	500k	75.12M	77.121M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.48M	19.01M
5200MHz	Pass	Inf	21.36M	19.01M
5240MHz	Pass	Inf	21.39M	19.01M
5260MHz	Pass	Inf	41.1M	19.79M
5300MHz	Pass	Inf	38.85M	19.49M
5320MHz	Pass	Inf	21.45M	19.04M
5500MHz	Pass	Inf	21.42M	19.04M
5580MHz	Pass	Inf	41.79M	19.73M
5700MHz	Pass	Inf	21.42M	19.01M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	25.358M	14.903M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.485M	10.15M
5745MHz	Pass	500k	18.87M	26.297M
5785MHz	Pass	500k	18.99M	19.04M
5825MHz	Pass	500k	18.96M	19.04M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.14M	37.541M
5230MHz	Pass	Inf	40.02M	37.481M
5270MHz	Pass	Inf	57.18M	37.781M
5310MHz	Pass	Inf	40.08M	37.601M
5510MHz	Pass	Inf	40.02M	37.601M
5550MHz	Pass	Inf	75.6M	38.921M
5670MHz	Pass	Inf	44.46M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	51.525M	34.408M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.795M	21.469M
5755MHz	Pass	500k	36.72M	51.754M
5795MHz	Pass	500k	37.5M	48.216M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.08M	77.121M
5290MHz	Pass	Inf	82.08M	77.121M
5530MHz	Pass	Inf	81.96M	77.121M
5610MHz	Pass	Inf	140.76M	77.721M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	104.16M	74.285M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.555M	27.166M
5775MHz	Pass	500k	75.96M	78.201M

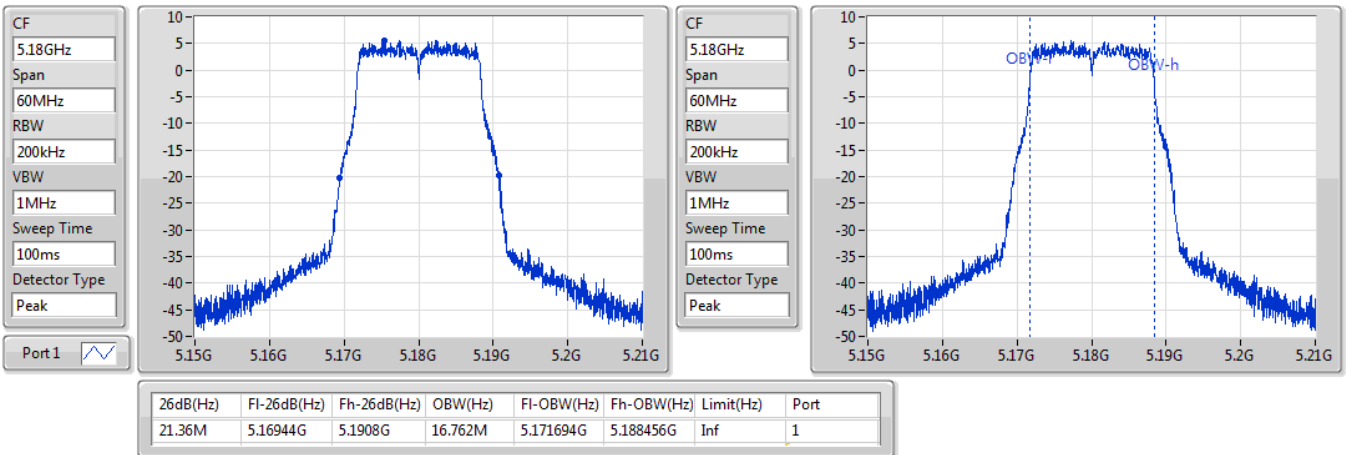
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

01/02/2020

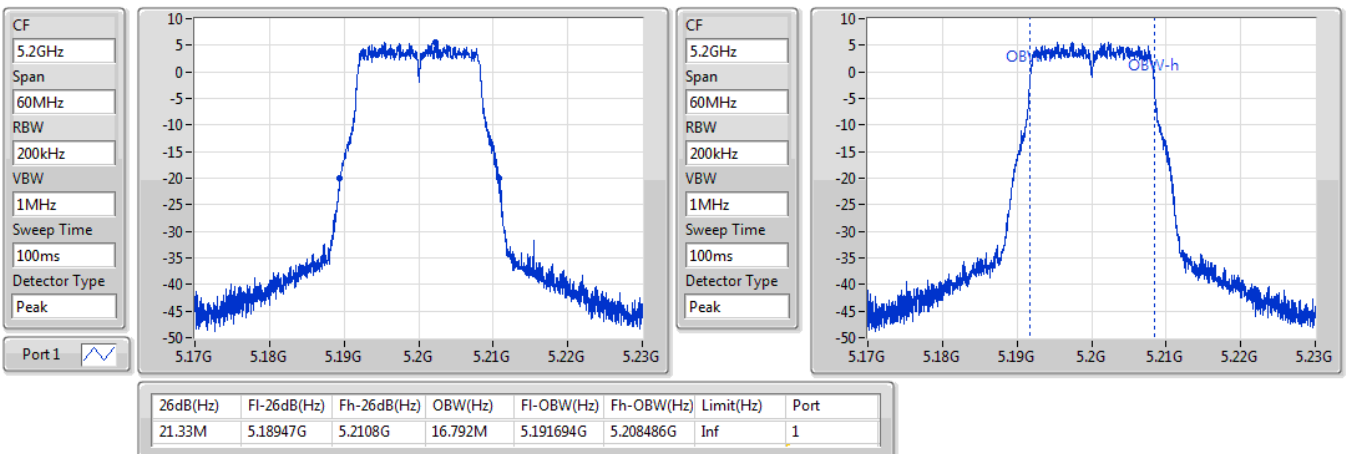


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

01/02/2020

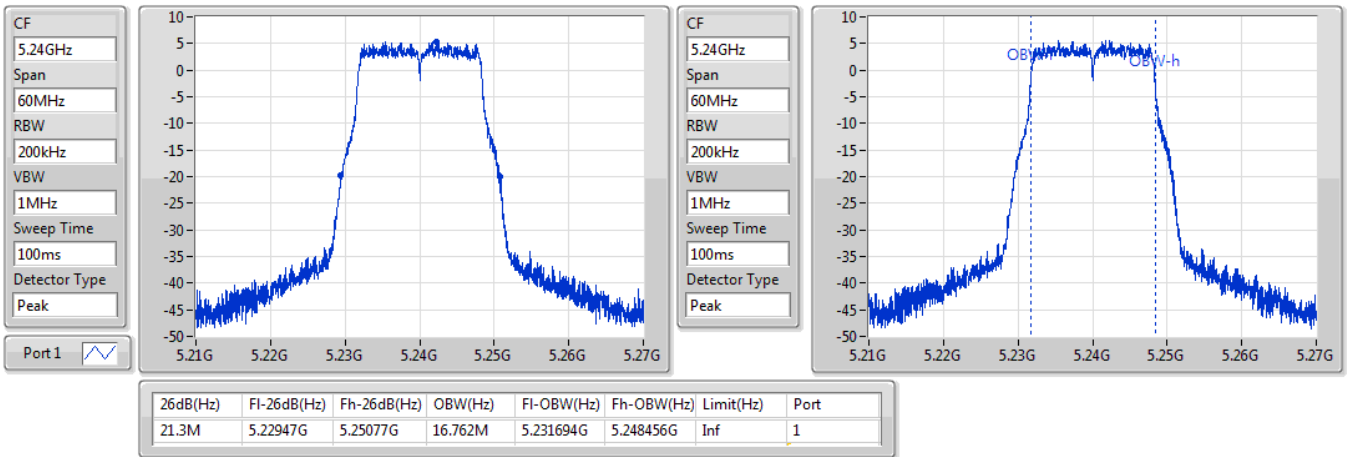


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

01/02/2020

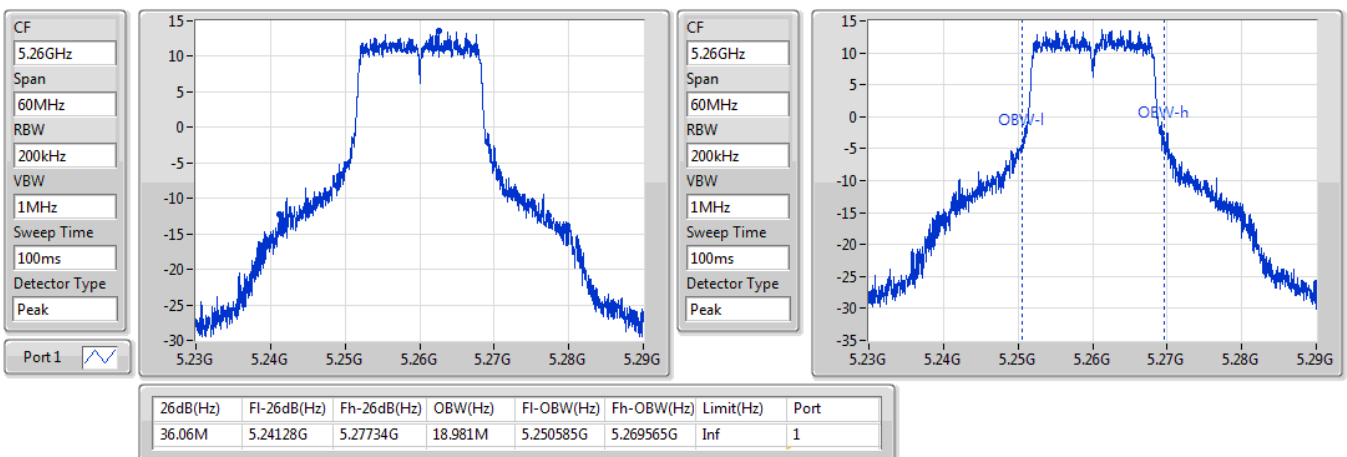


802.11a_Nss1,(6Mbps)_1TX

EBW

5260MHz

31/01/2020

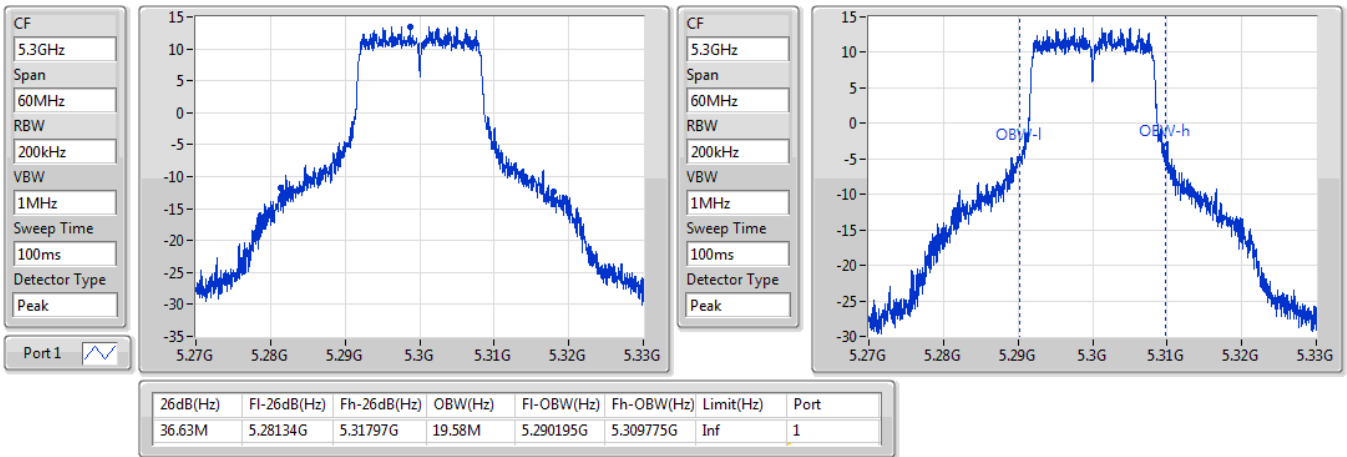


802.11a_Nss1,(6Mbps)_1TX

EBW

5300MHz

31/01/2020

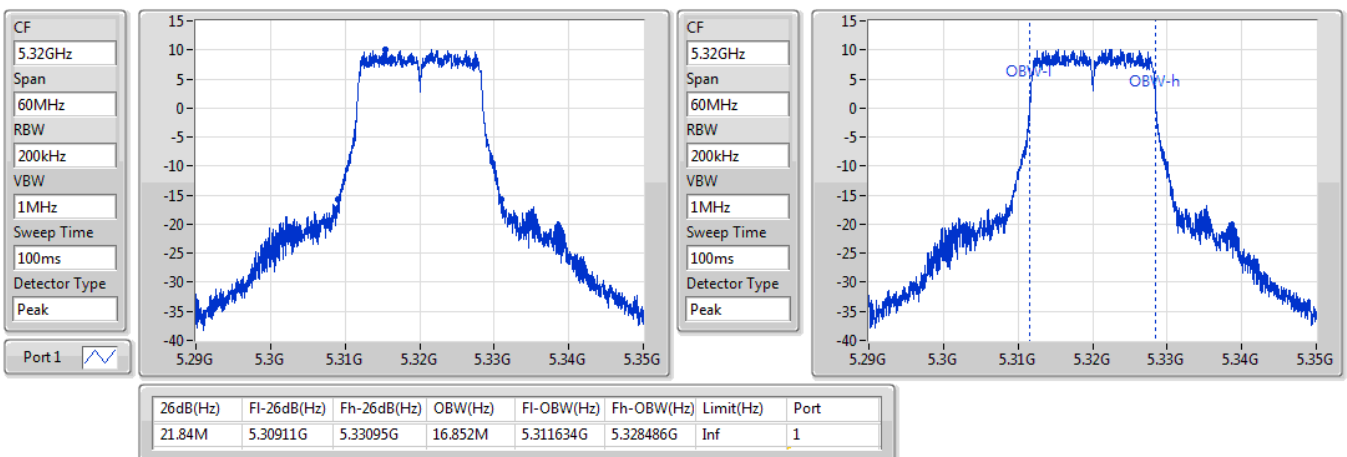


802.11a_Nss1,(6Mbps)_1TX

EBW

5320MHz

31/01/2020

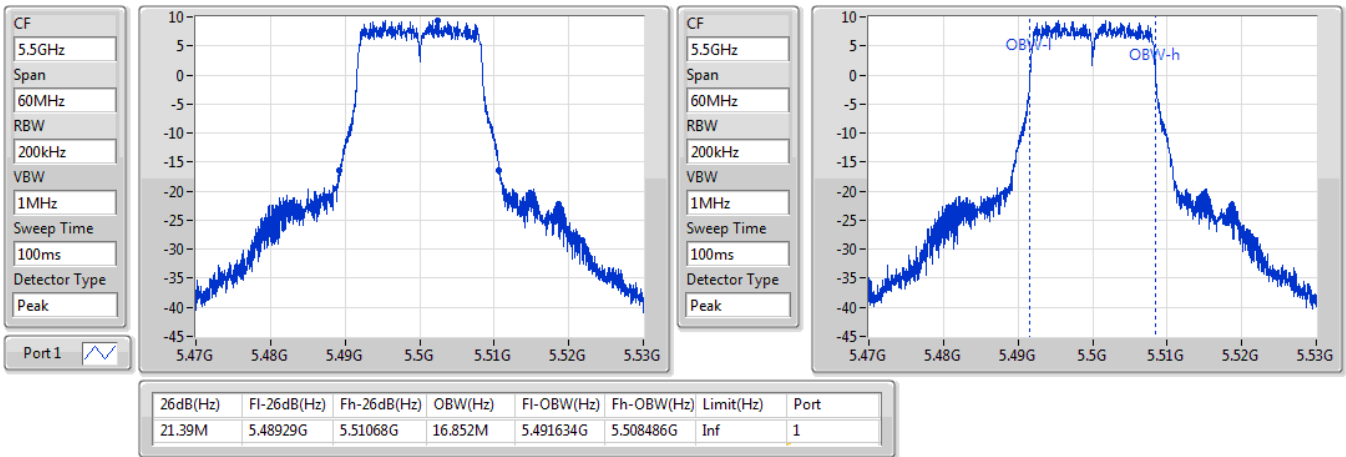


802.11a_Nss1,(6Mbps)_1TX

EBW

5500MHz

31/01/2020

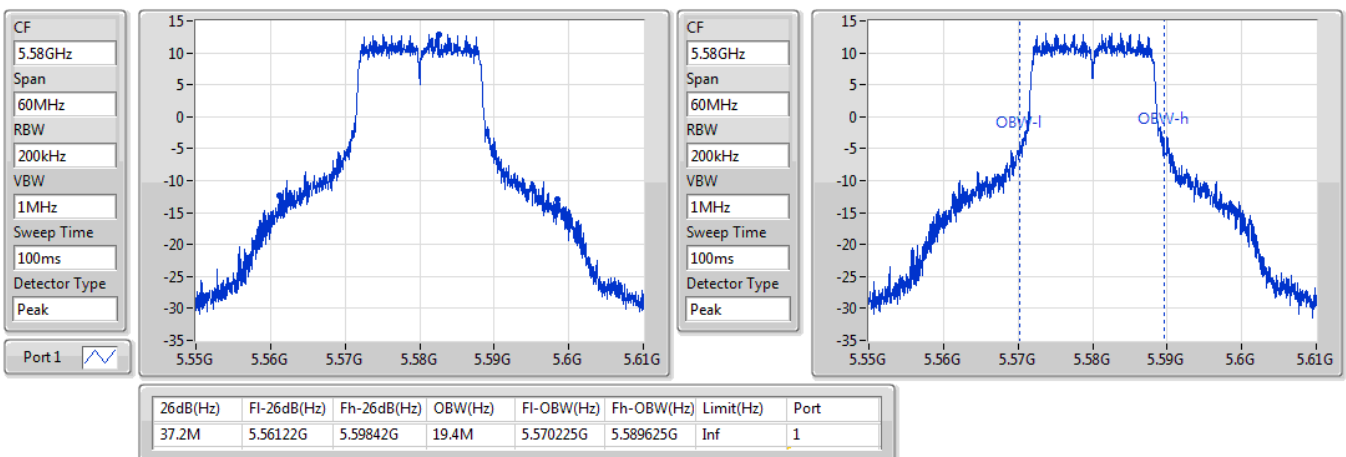


802.11a_Nss1,(6Mbps)_1TX

EBW

5580MHz

31/01/2020

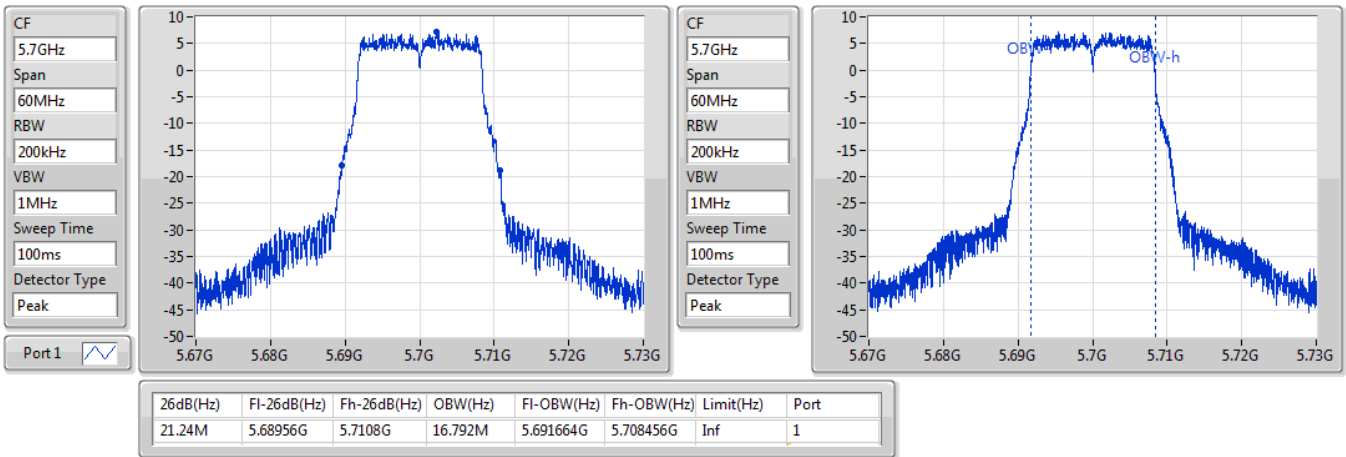


802.11a_Nss1,(6Mbps)_1TX

EBW

5700MHz

31/01/2020

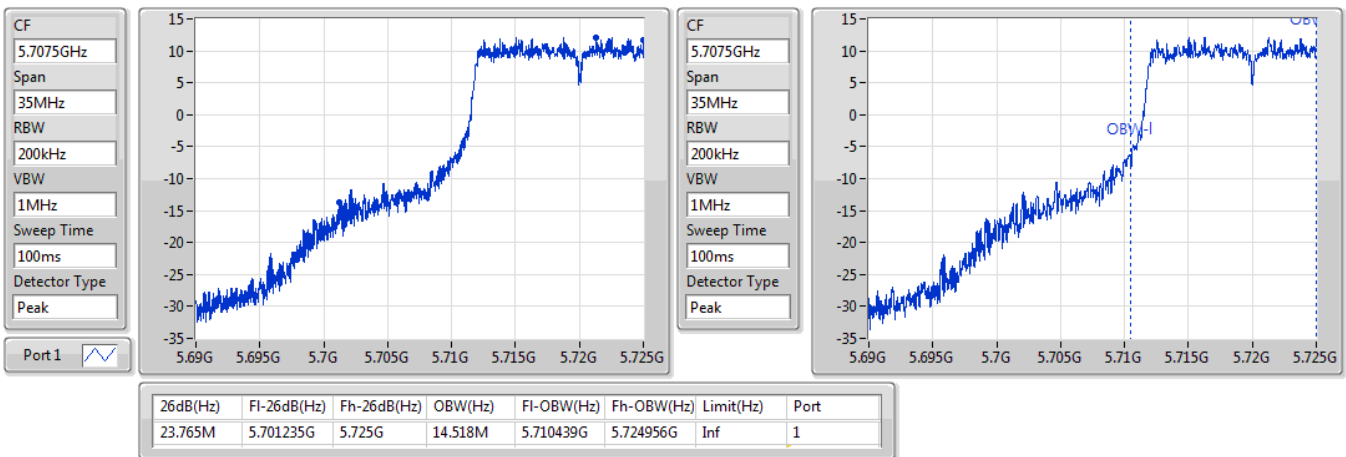


802.11a_Nss1,(6Mbps)_1TX

EBW

5720MHz Straddle 5.47-5.725GHz

31/01/2020

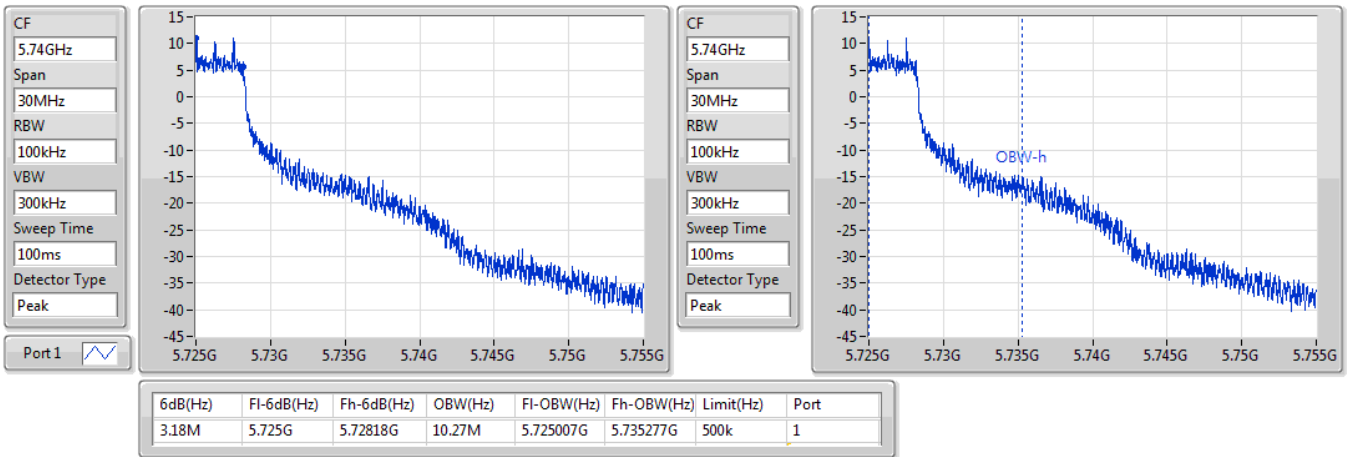


802.11a_Nss1,(6Mbps)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

31/01/2020

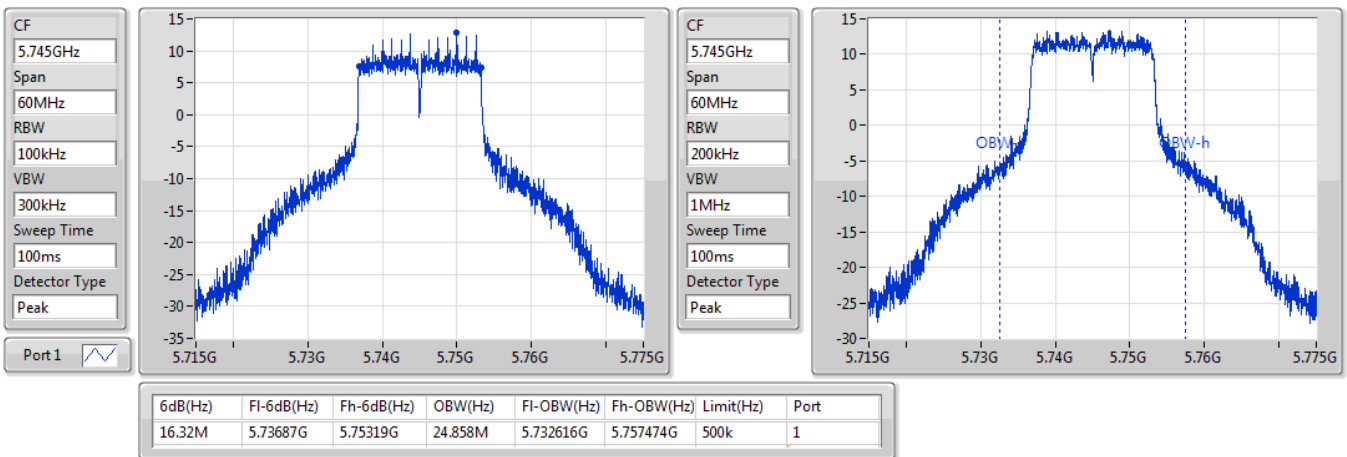


802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

31/01/2020

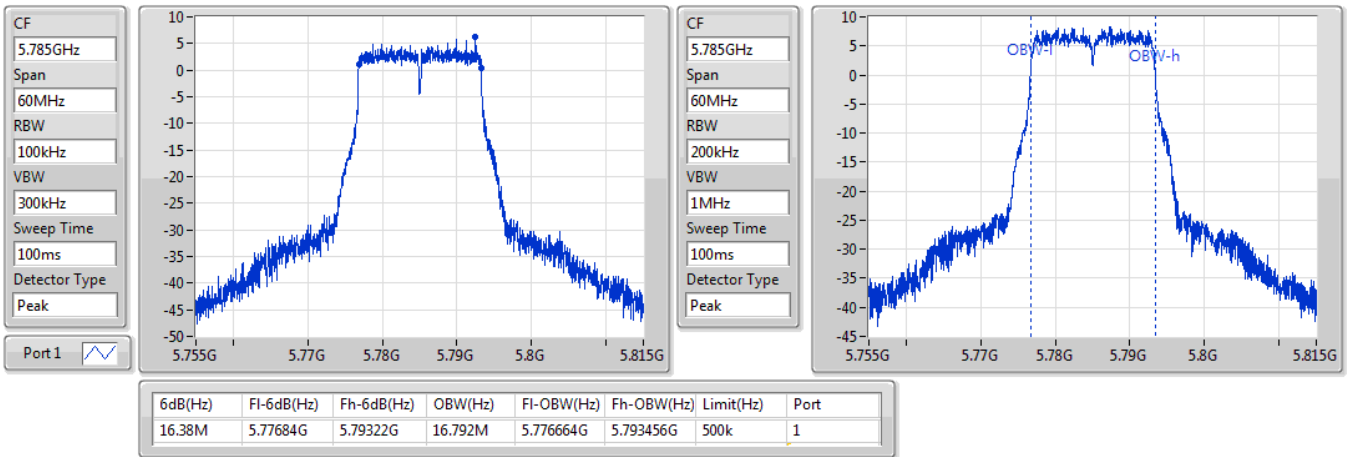


802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

31/01/2020

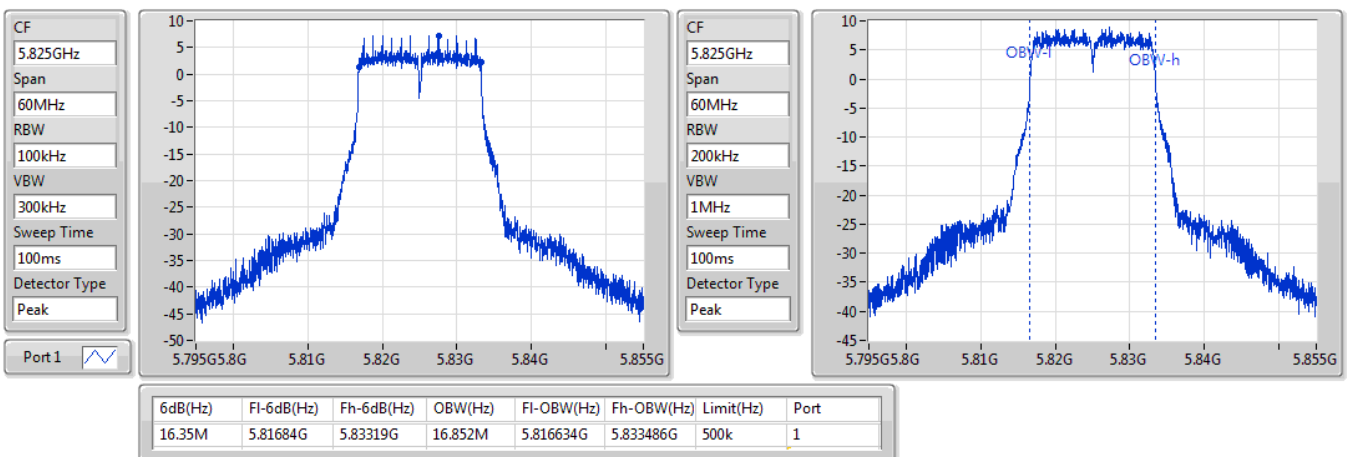


802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

31/01/2020

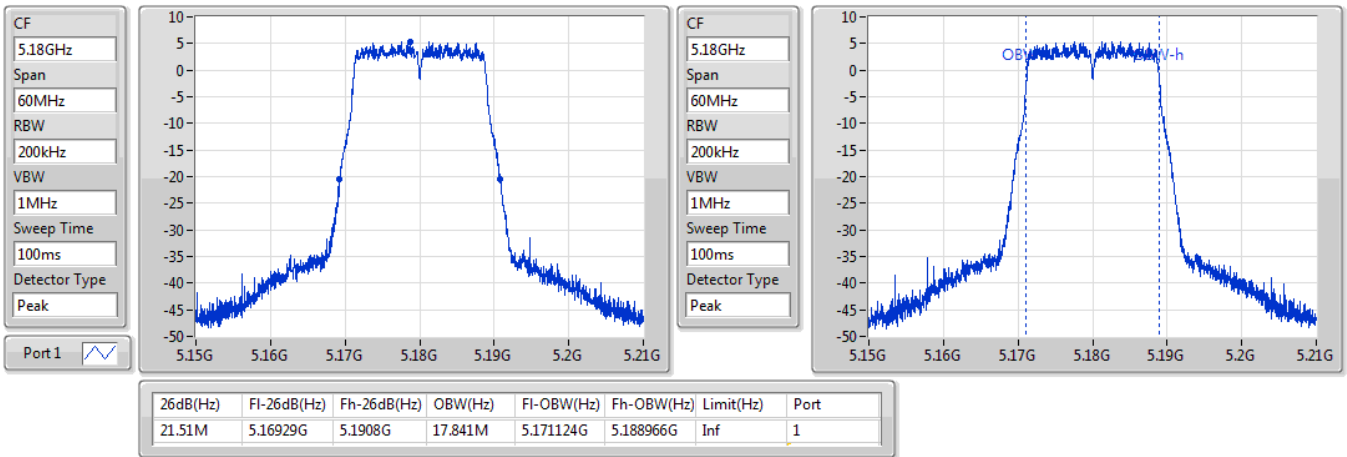


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5180MHz

07/02/2020

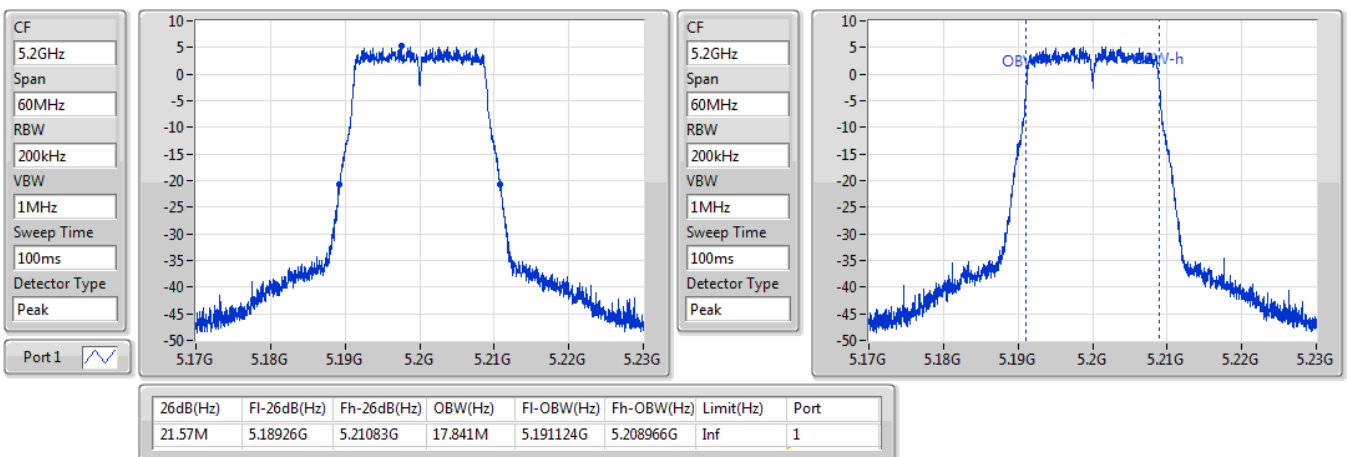


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5200MHz

07/02/2020

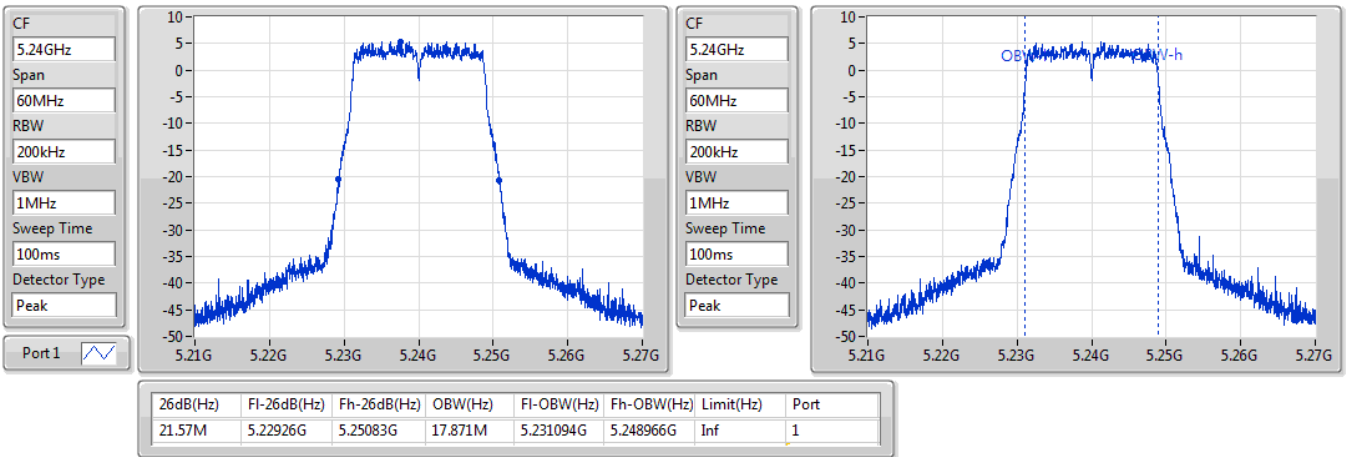


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5240MHz

07/02/2020

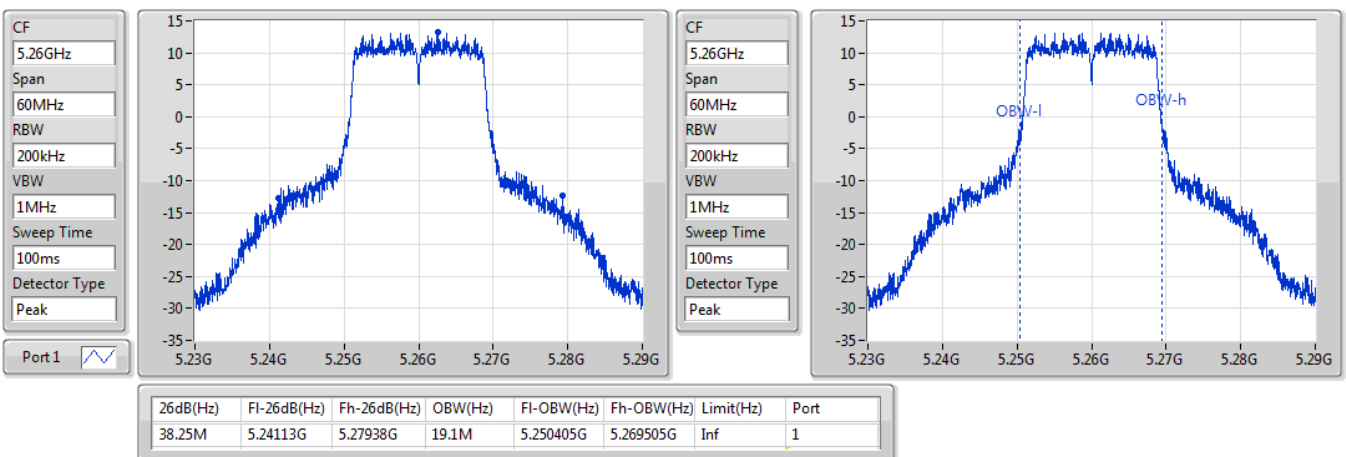


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5260MHz

31/01/2020

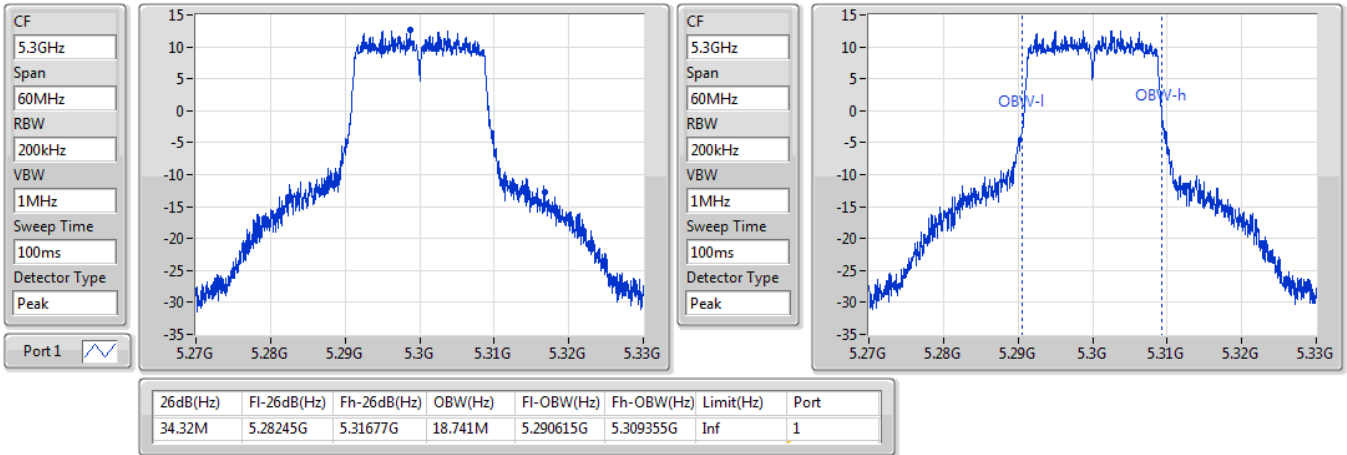


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5300MHz

31/01/2020

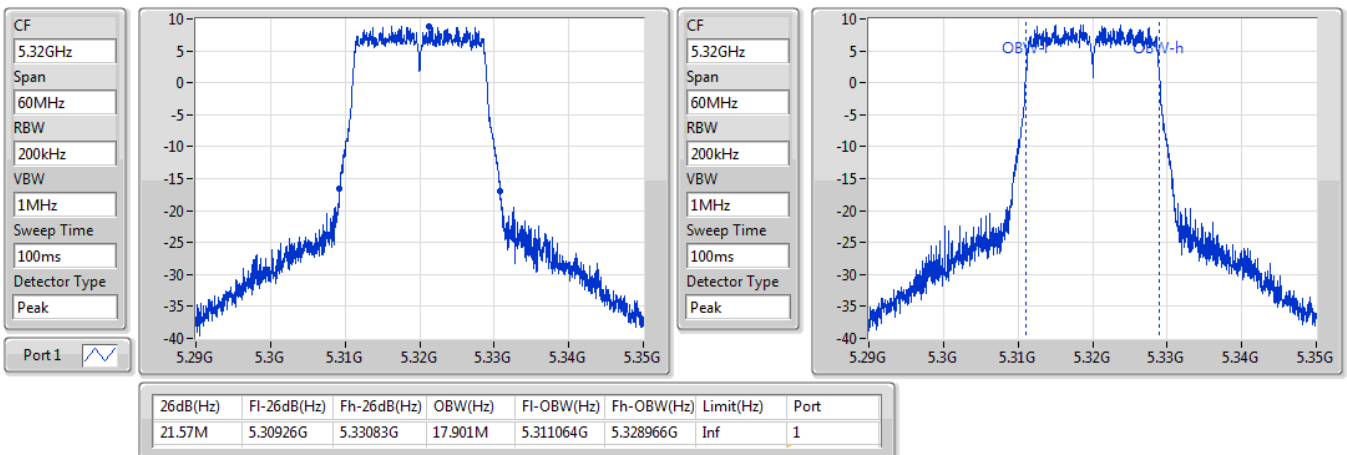


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5320MHz

31/01/2020

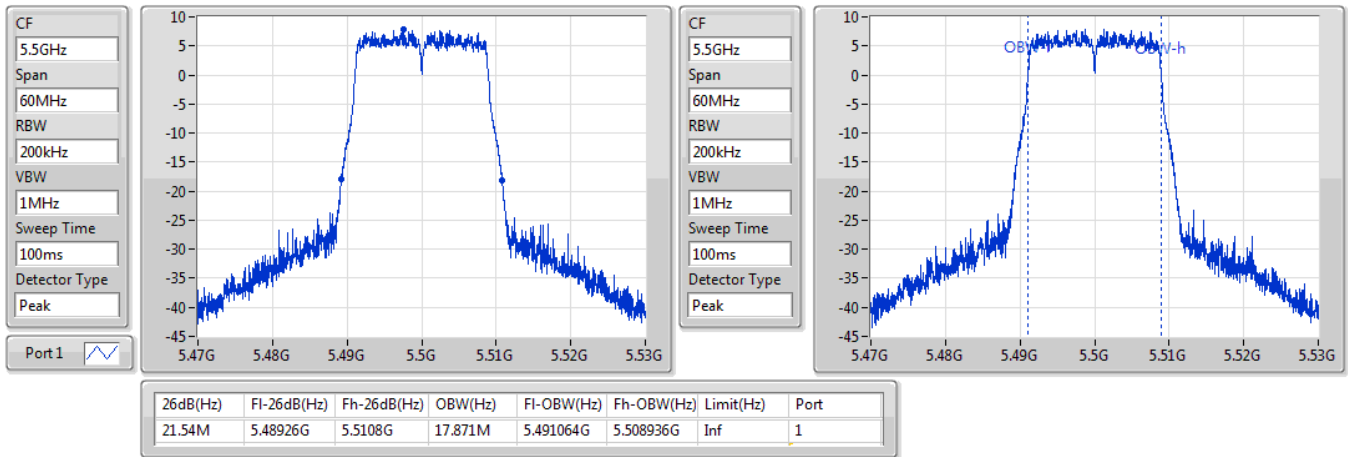


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5500MHz

31/01/2020

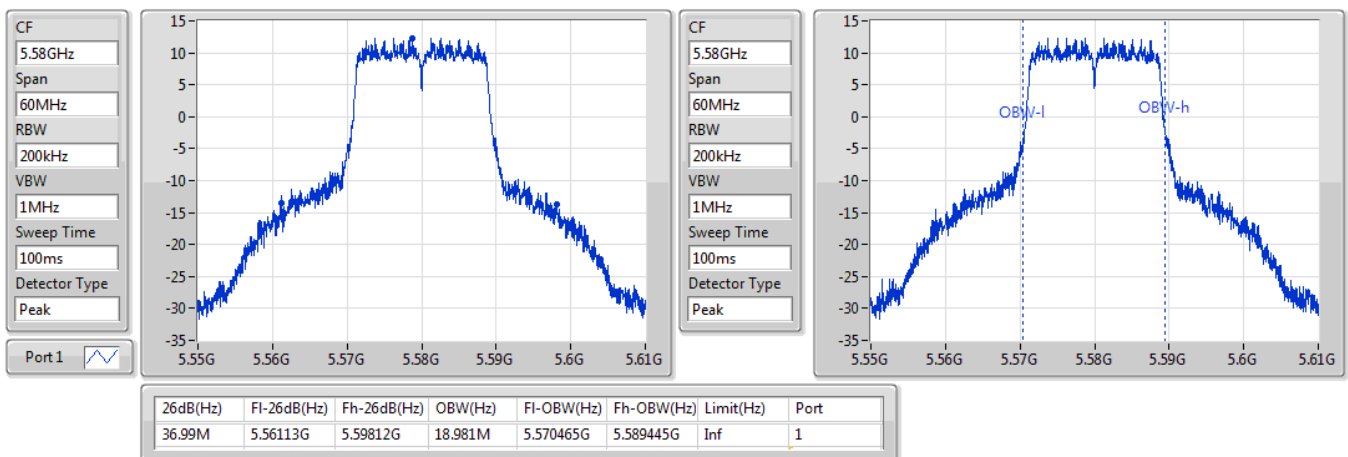


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5580MHz

31/01/2020

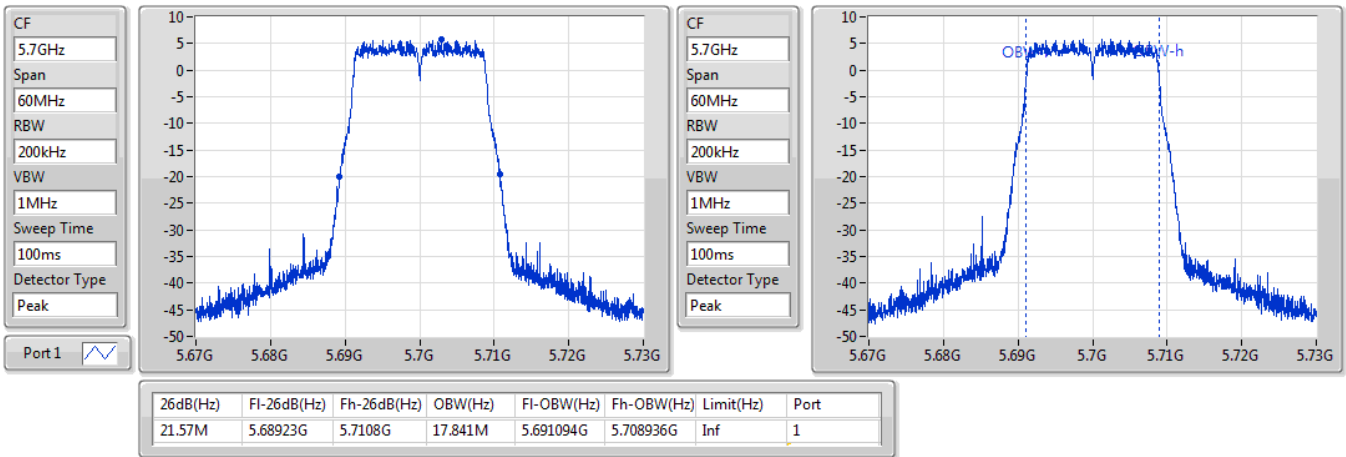


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5700MHz

31/01/2020

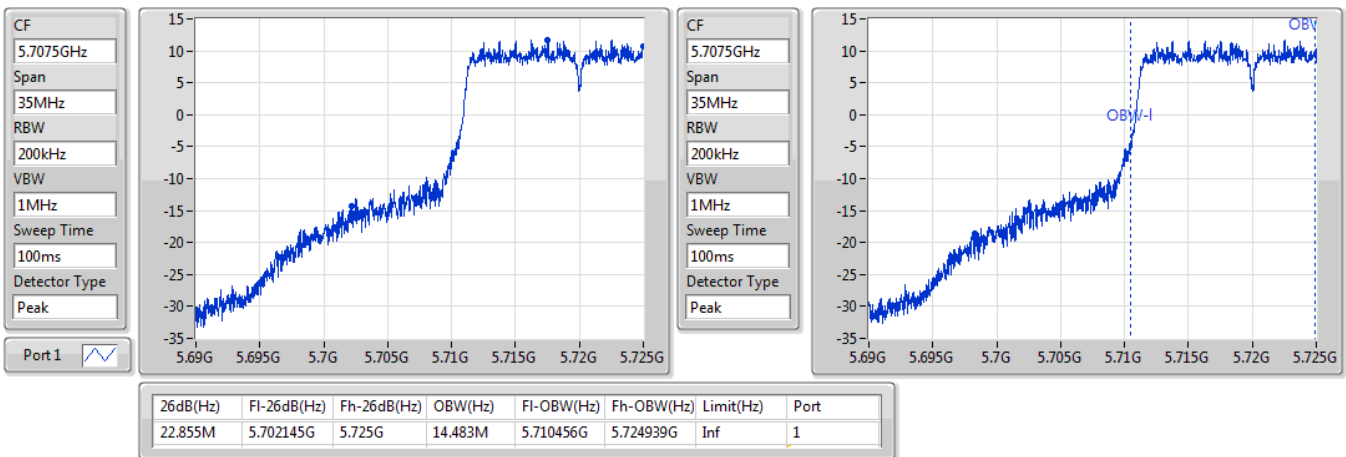


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5720MHz Straddle 5.67-5.725GHz

31/01/2020

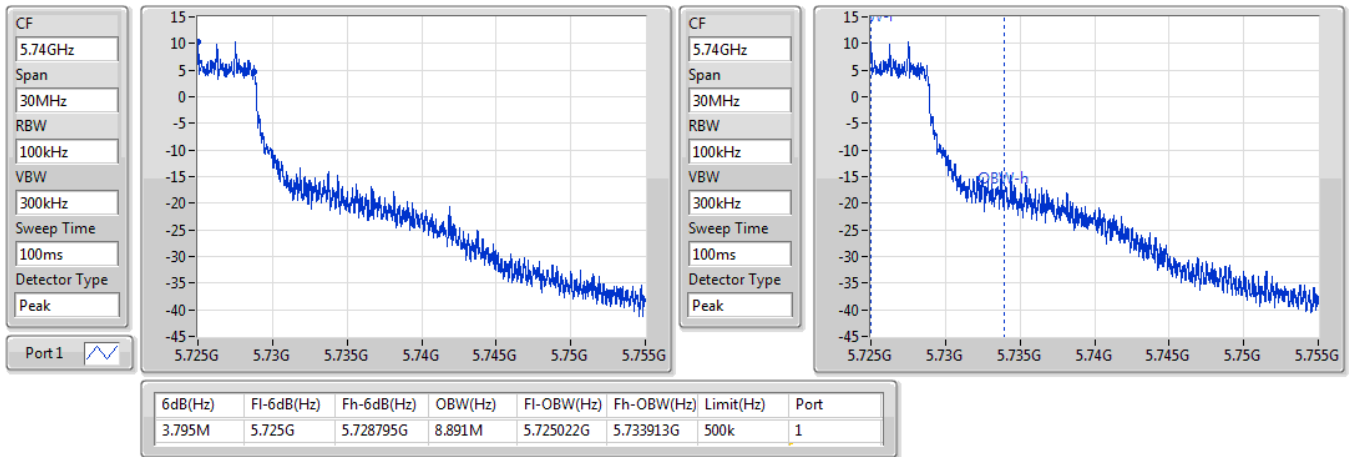


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

31/01/2020

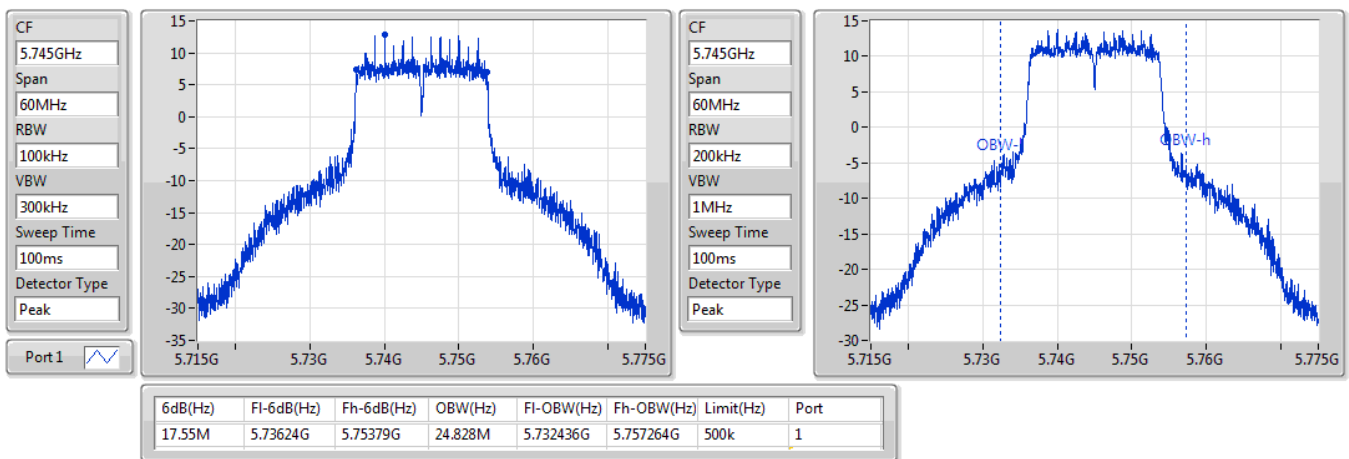


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5745MHz

31/01/2020

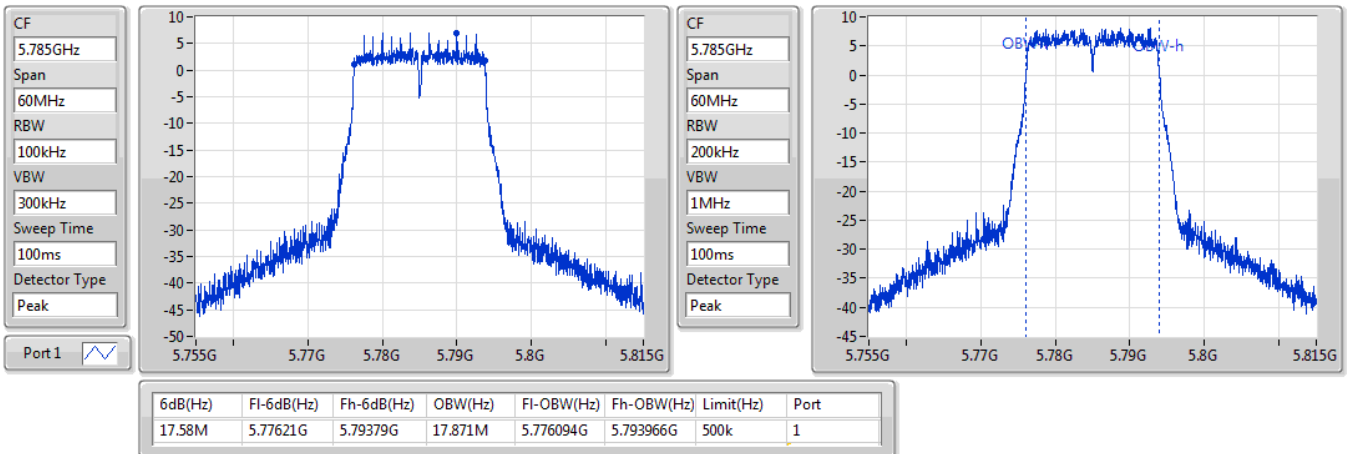


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5785MHz

31/01/2020

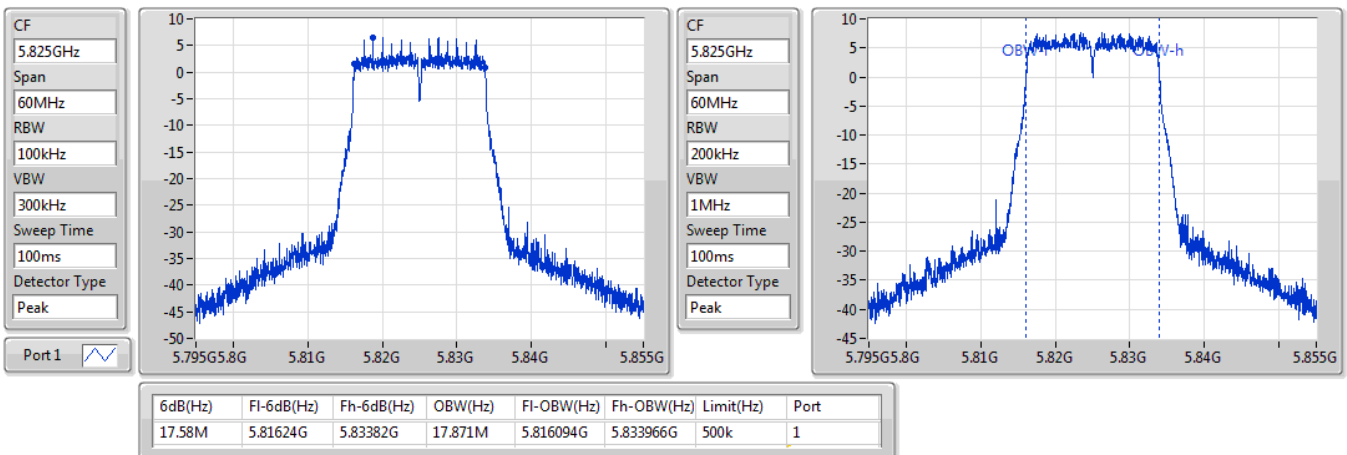


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5825MHz

31/01/2020

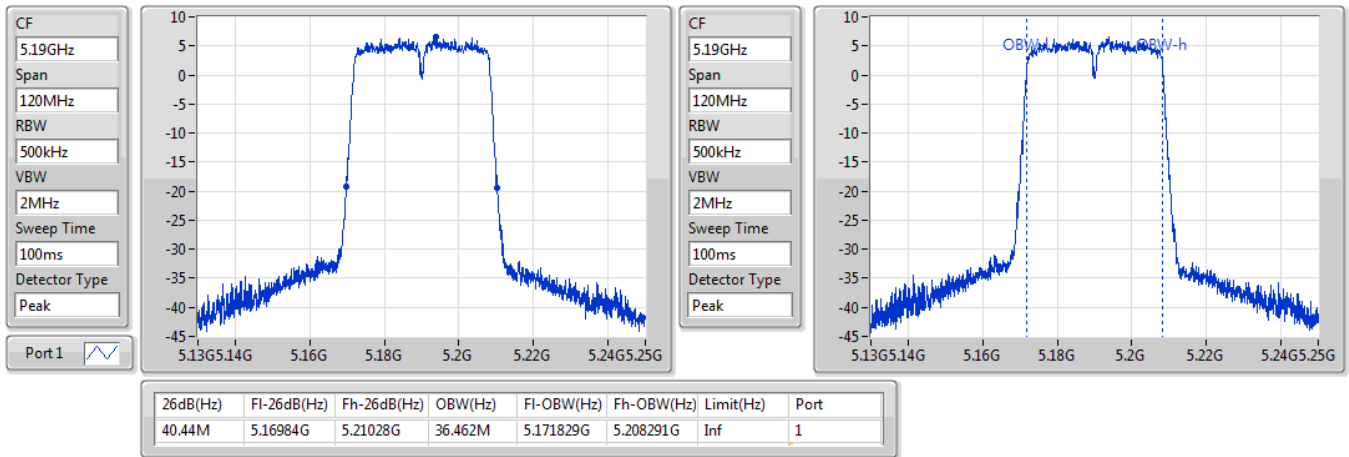


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5190MHz

01/02/2020

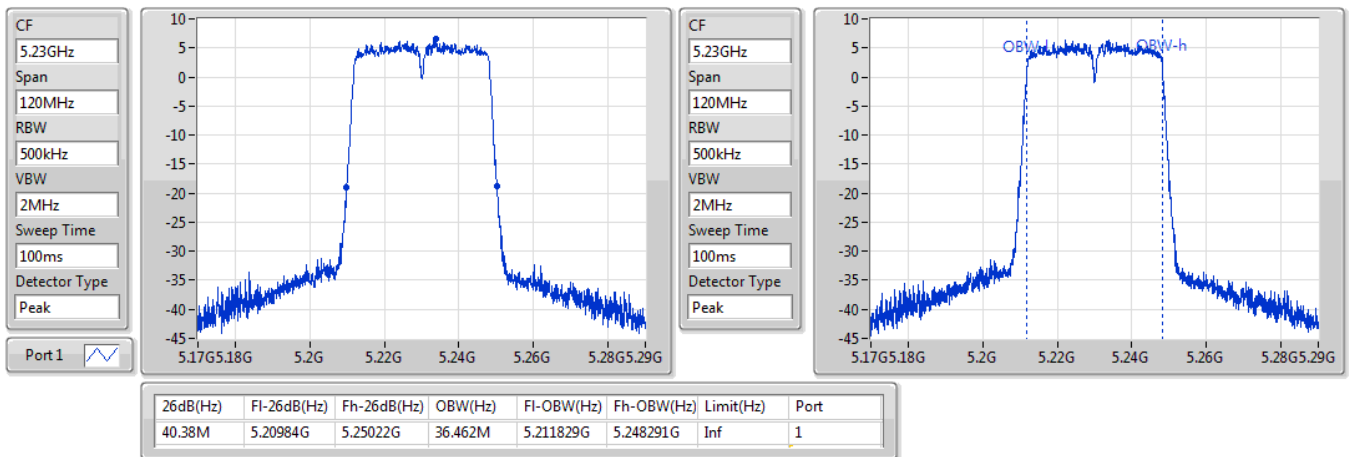


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5230MHz

01/02/2020

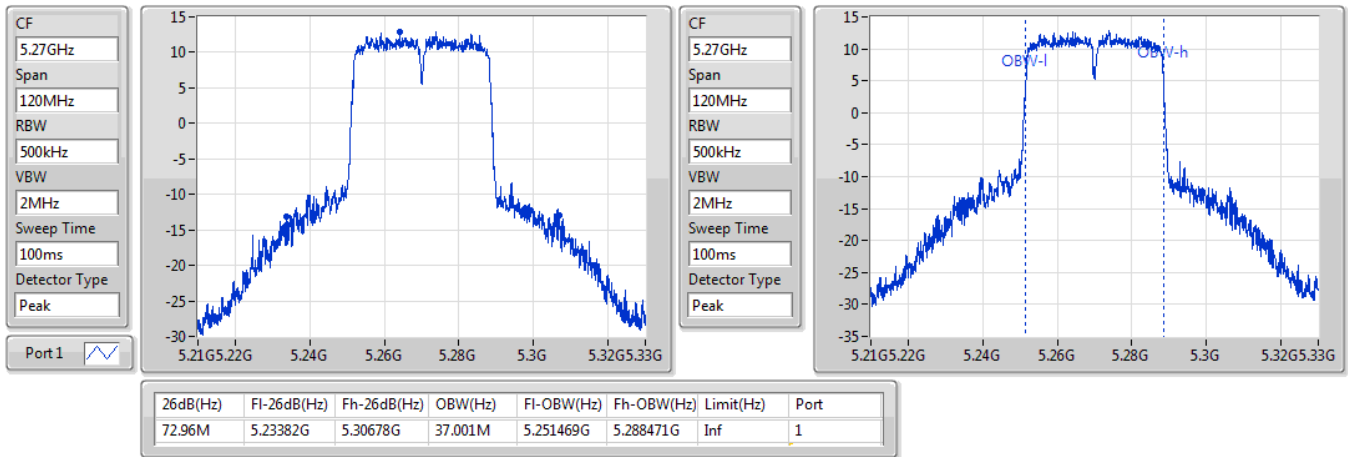


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5270MHz

31/01/2020

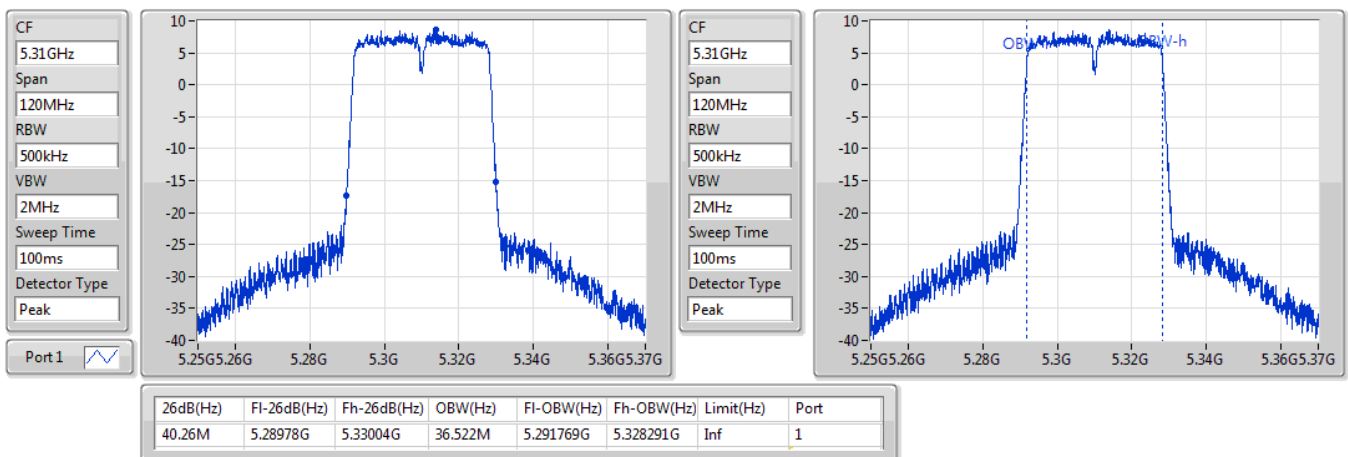


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5310MHz

31/01/2020

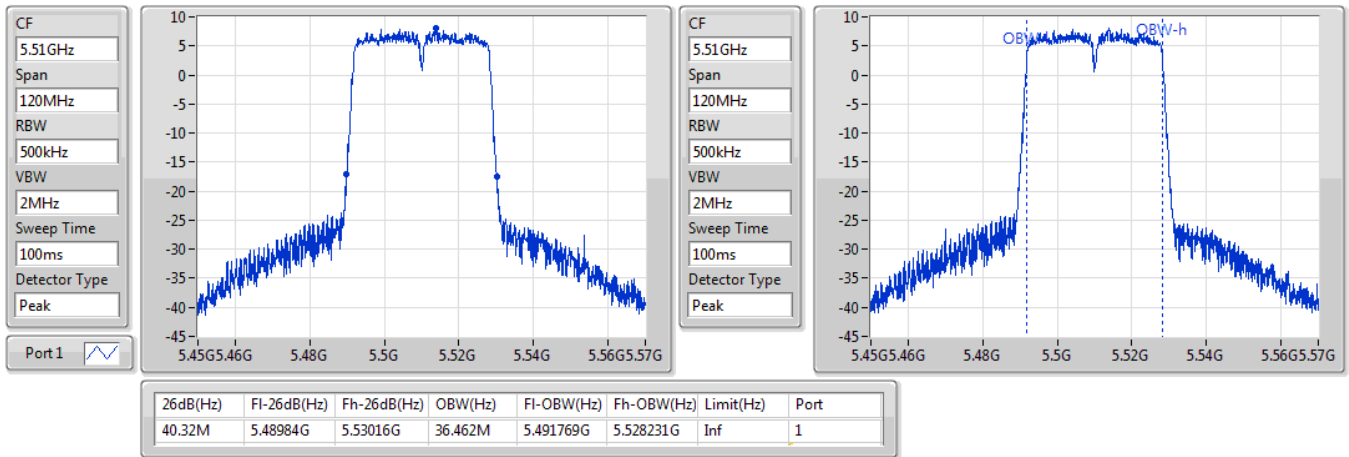


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5510MHz

31/01/2020

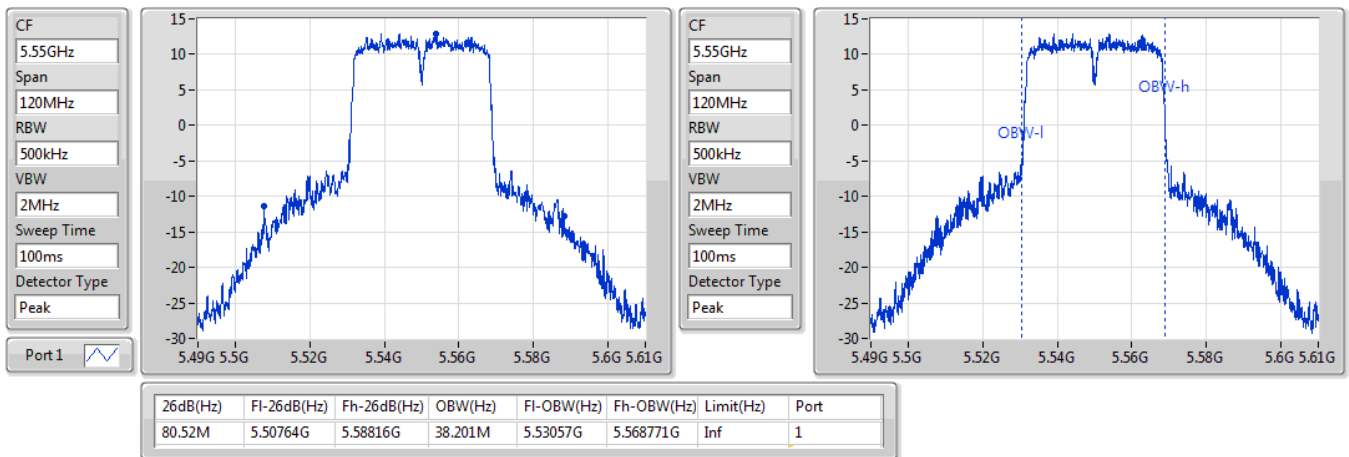


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5550MHz

31/01/2020

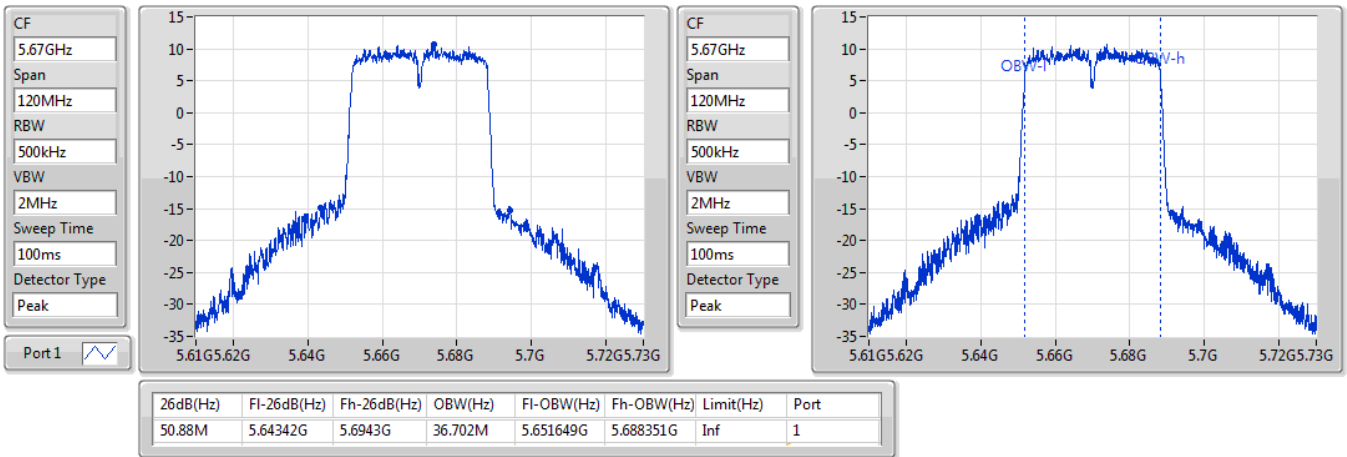


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5670MHz

31/01/2020

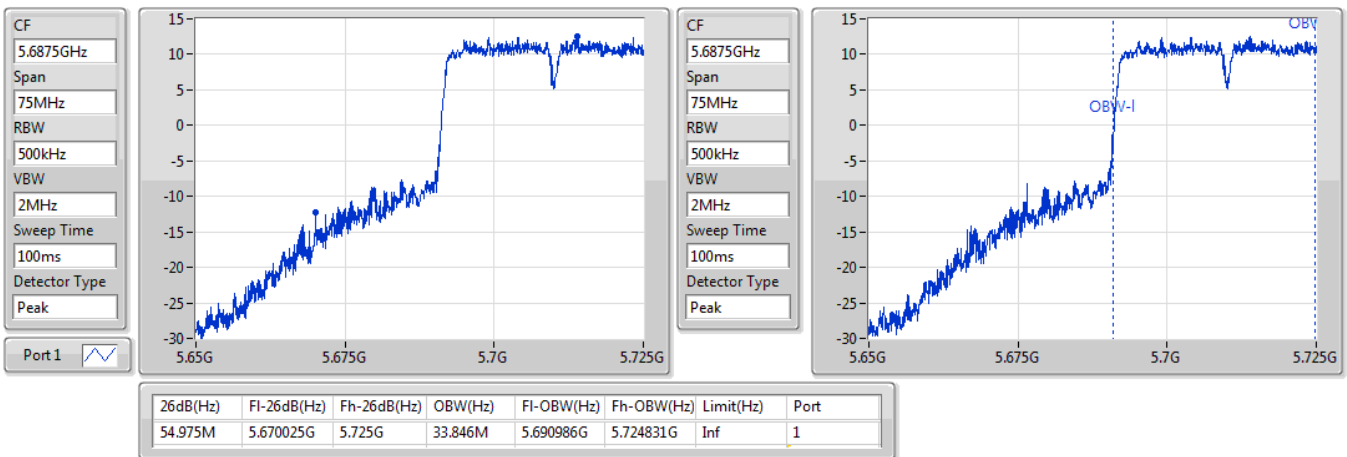


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5710MHz Straddle 5.47-5.725GHz

31/01/2020

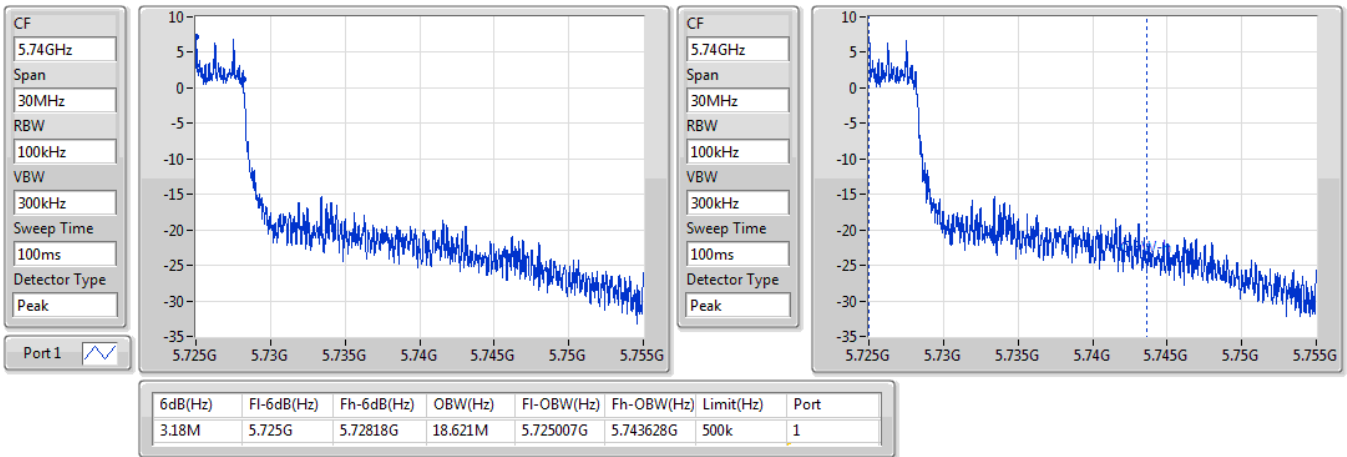


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5710MHz Straddle 5.725-5.85GHz

31/01/2020

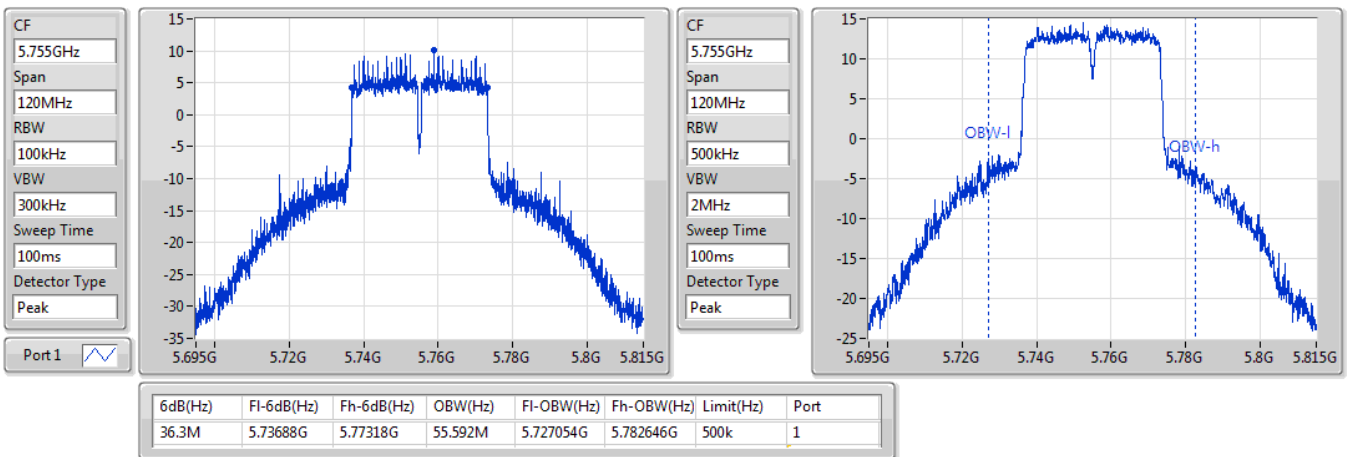


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5755MHz

31/01/2020

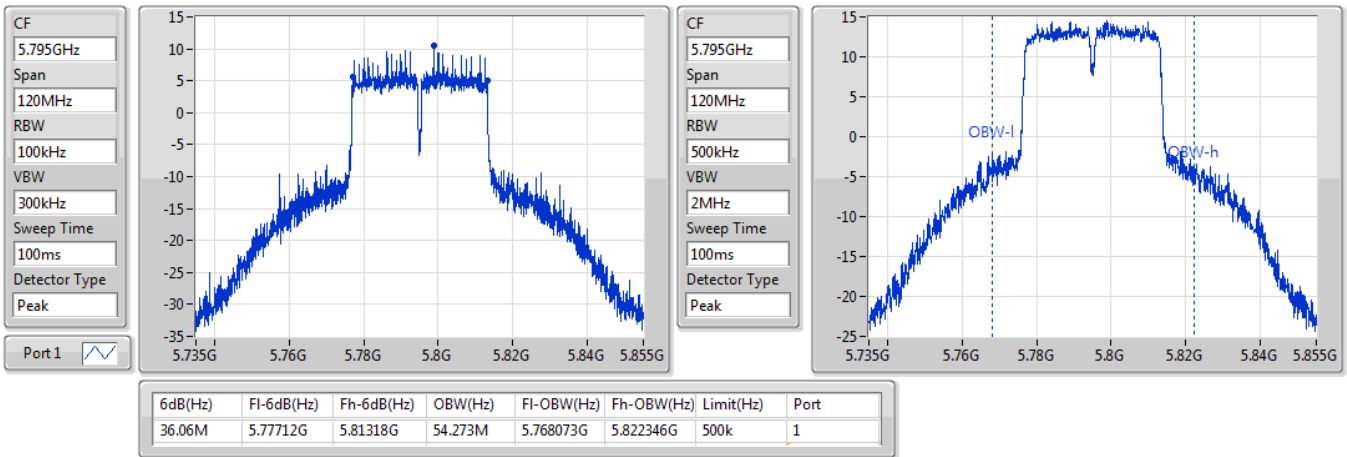


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5795MHz

31/01/2020

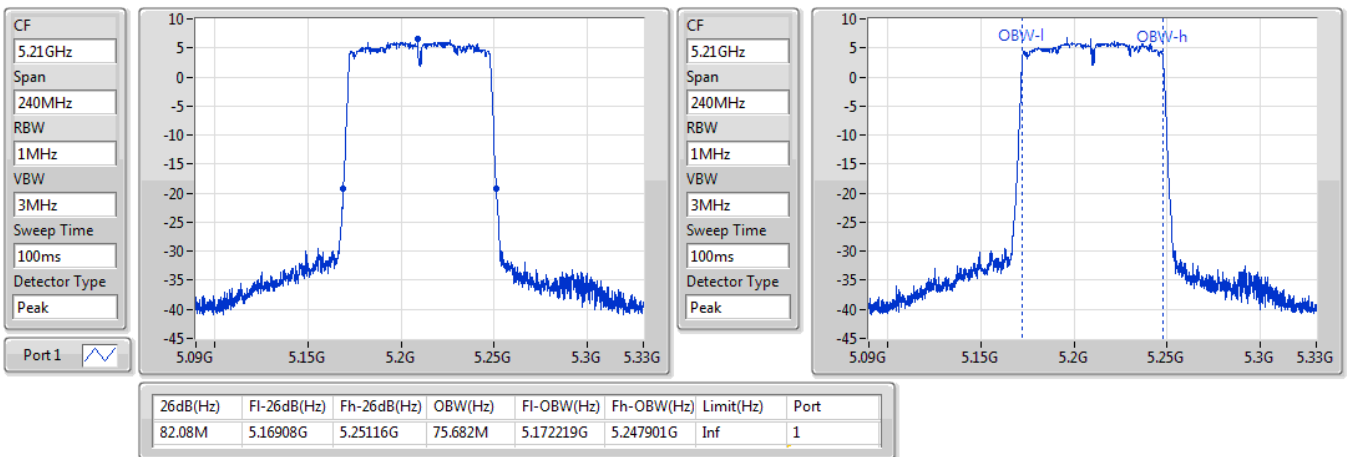


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5210MHz

01/02/2020

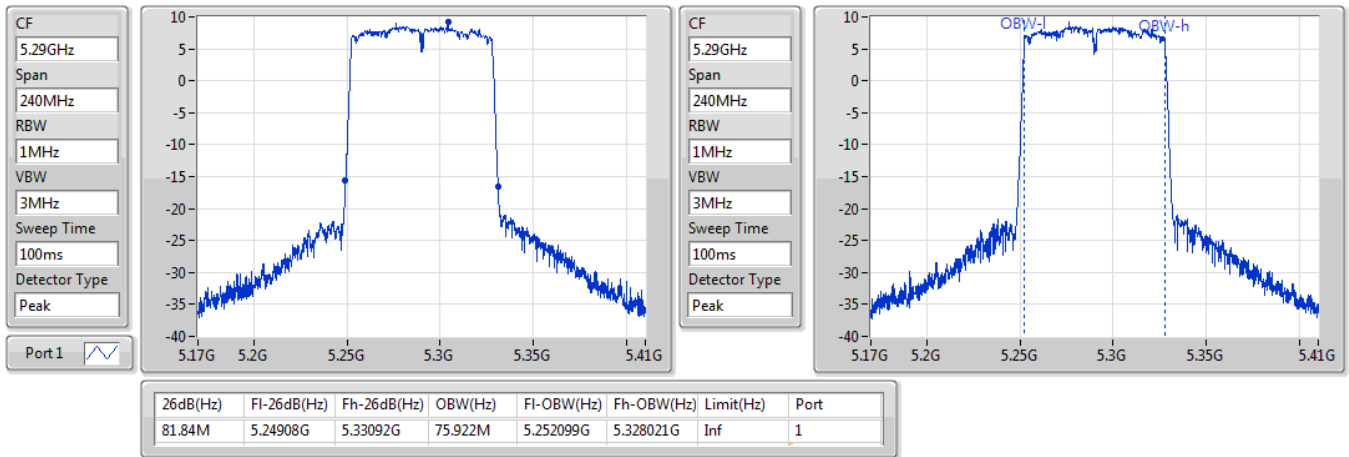


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5290MHz

31/01/2020

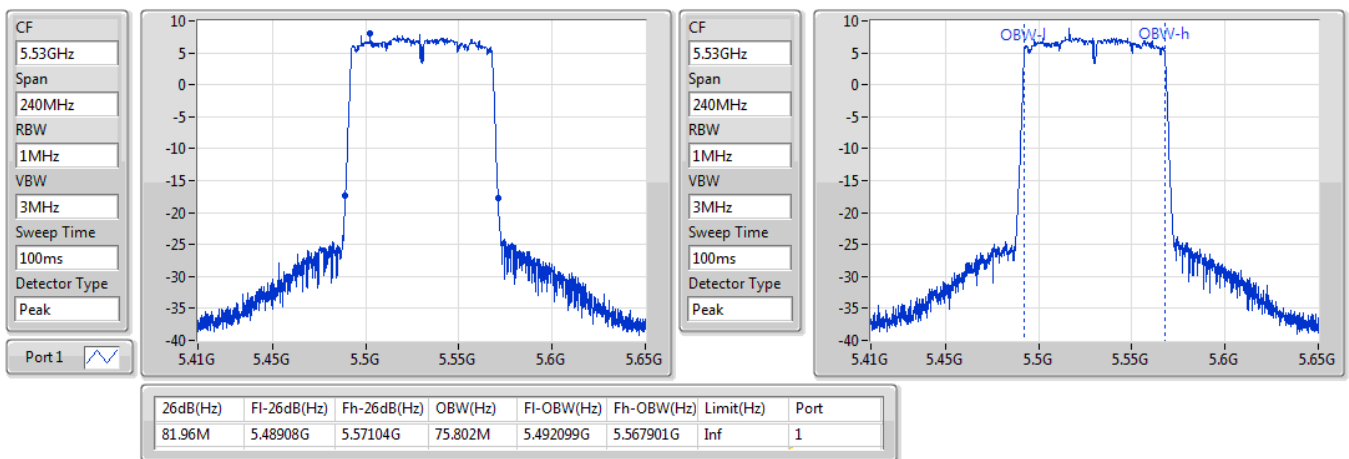


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5530MHz

31/01/2020

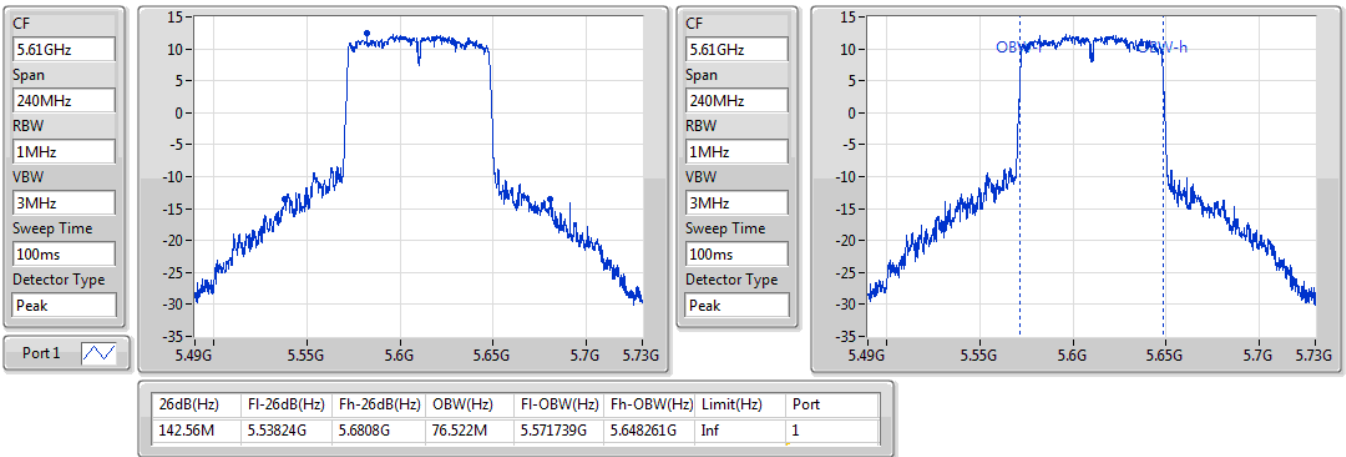


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5610MHz

31/01/2020

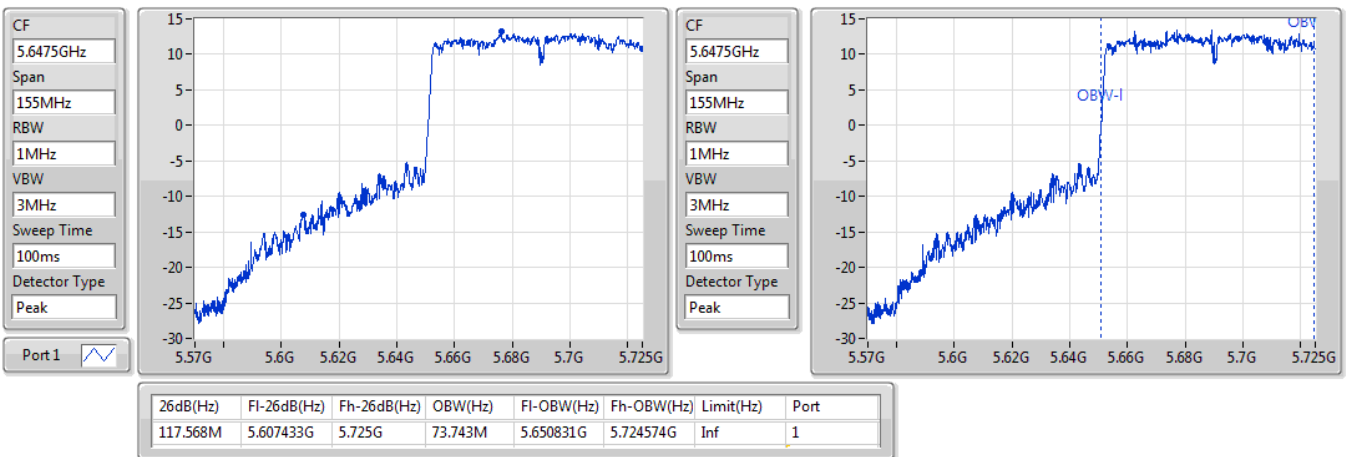


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.47-5.725GHz

31/01/2020

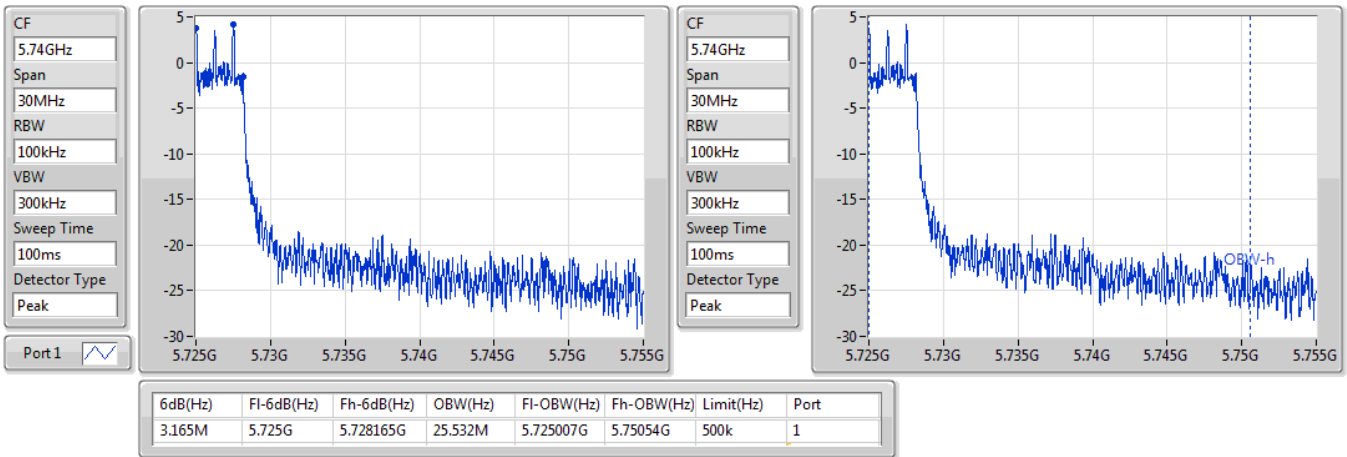


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.725-5.85GHz

31/01/2020

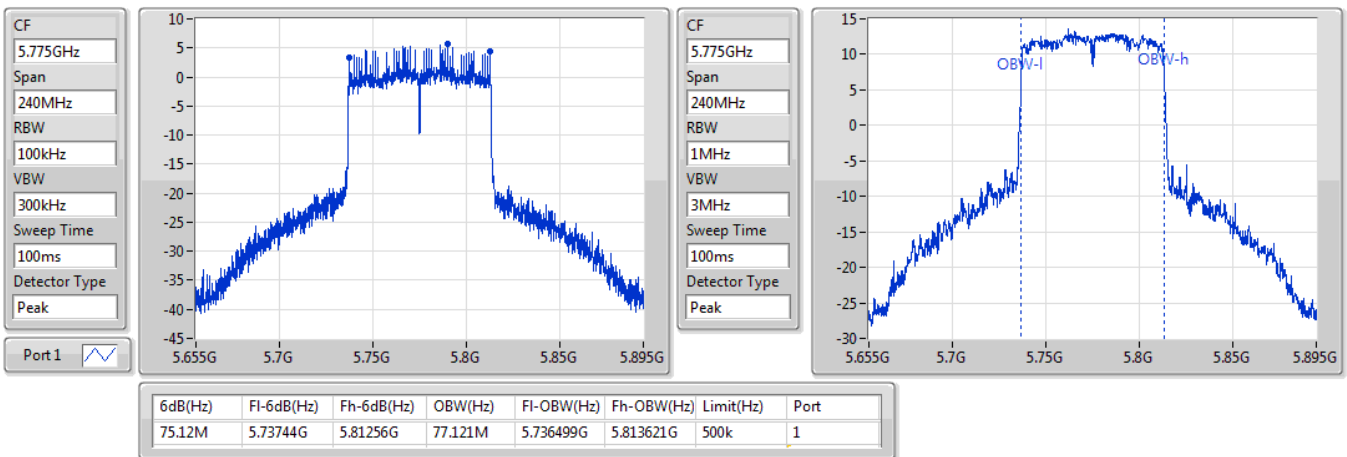


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5775MHz

31/01/2020

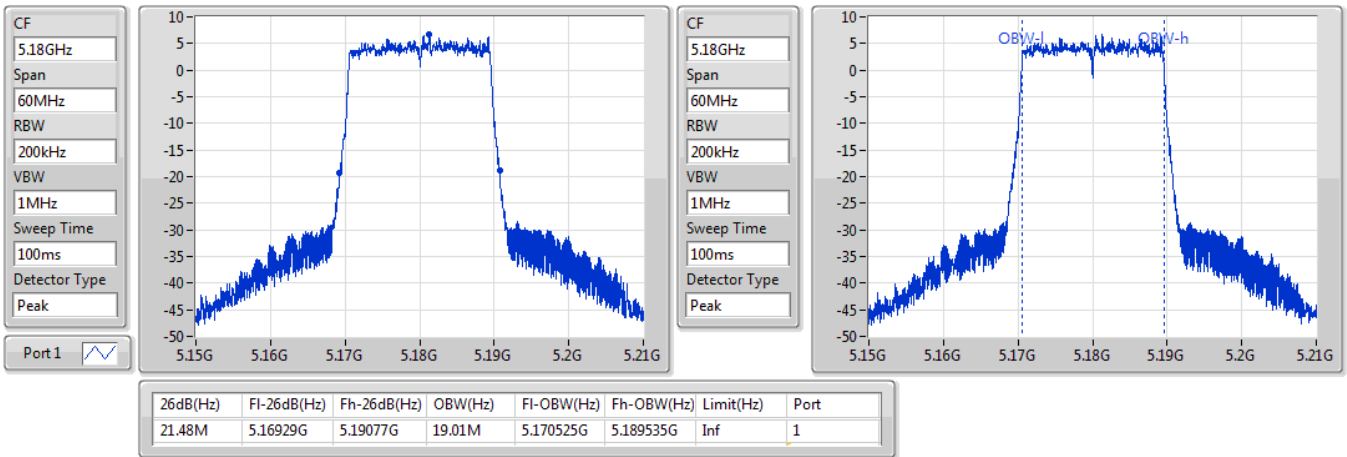


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

01/02/2020

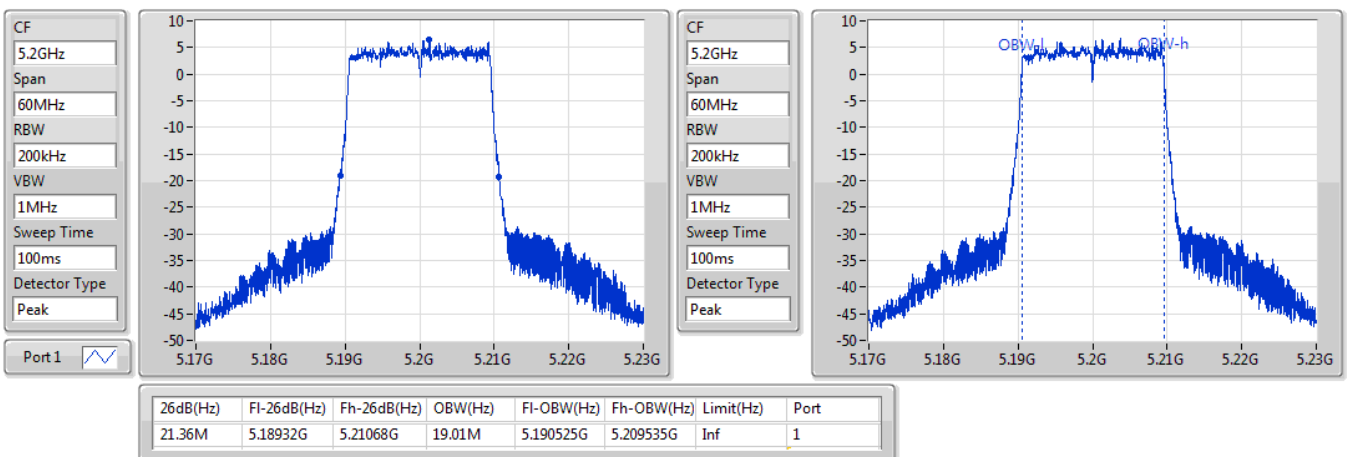


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

01/02/2020

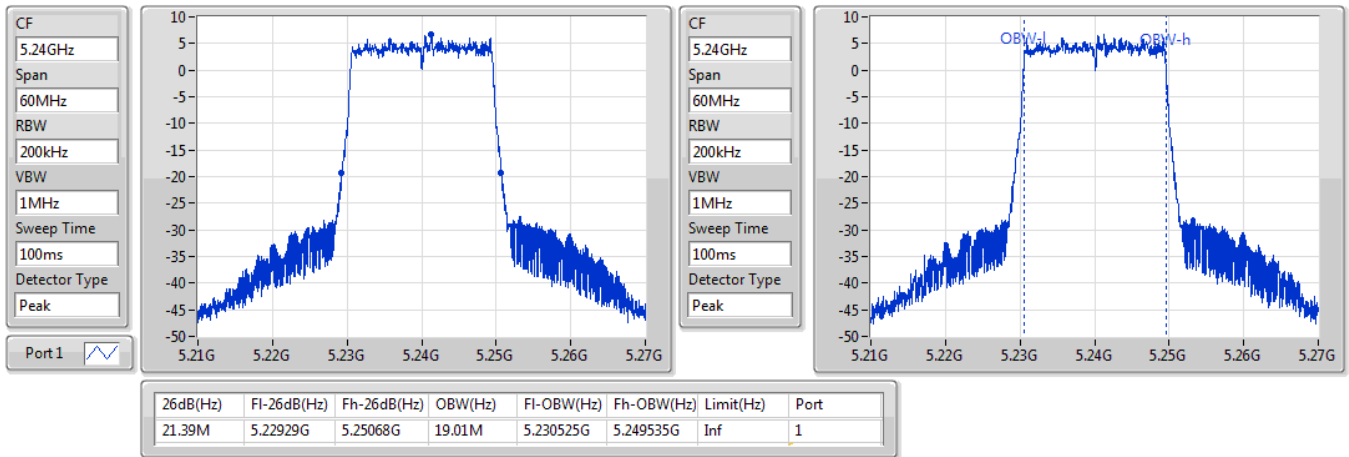


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

01/02/2020

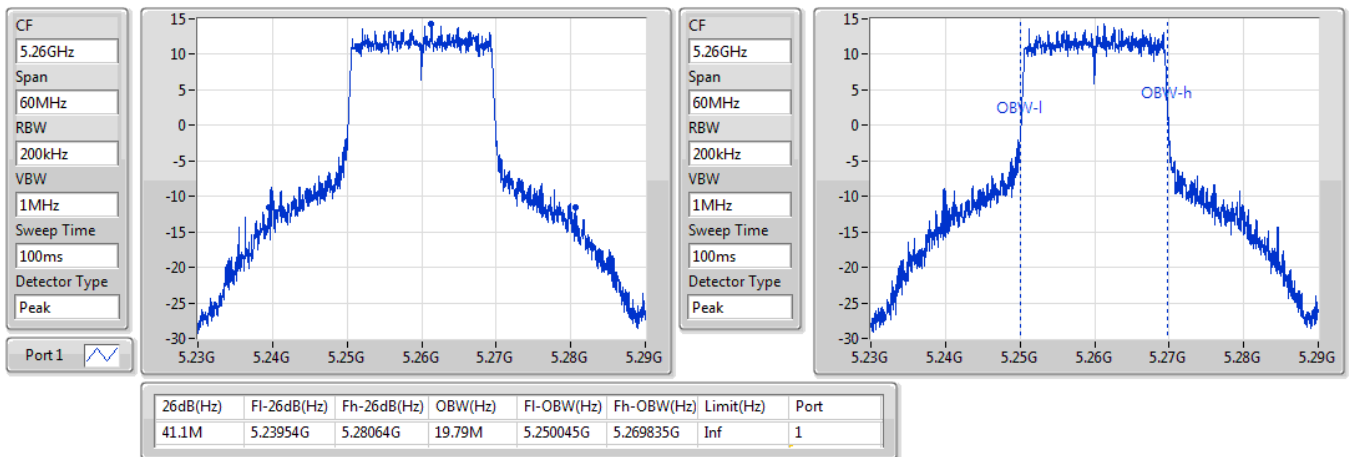


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5260MHz

31/01/2020

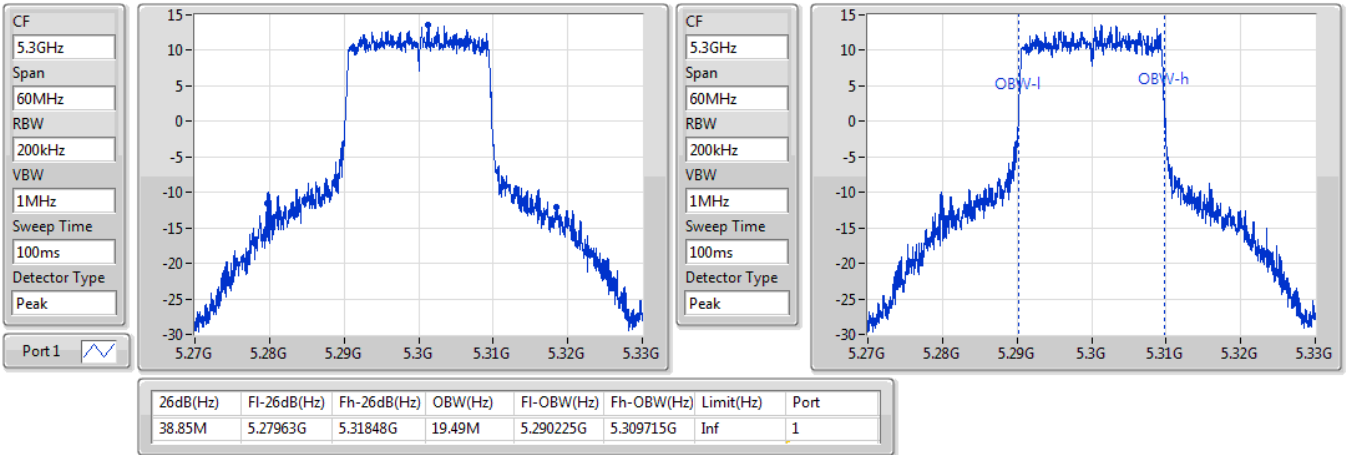


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5300MHz

31/01/2020

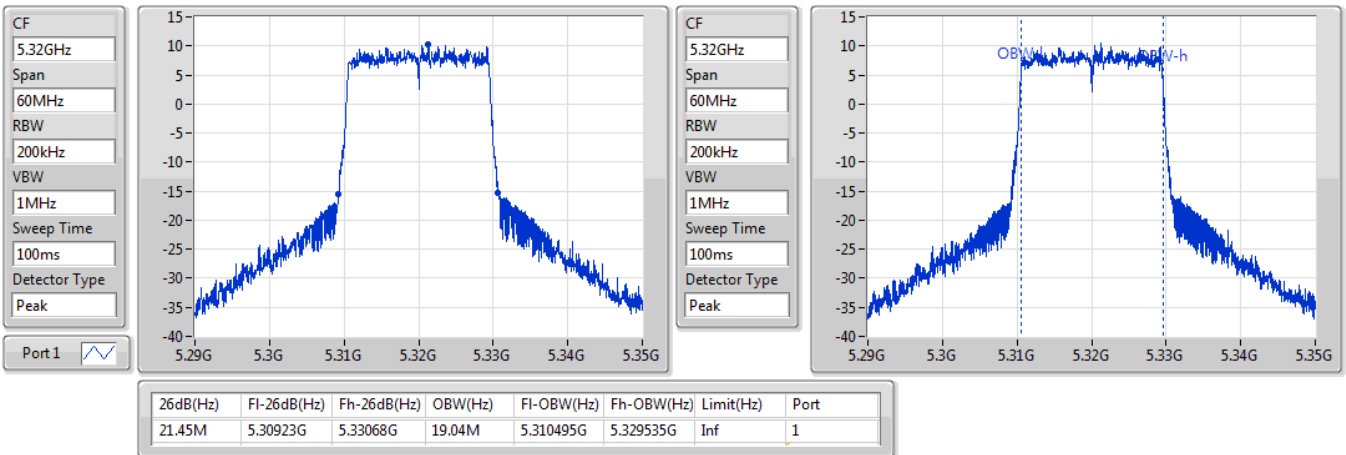


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5320MHz

31/01/2020

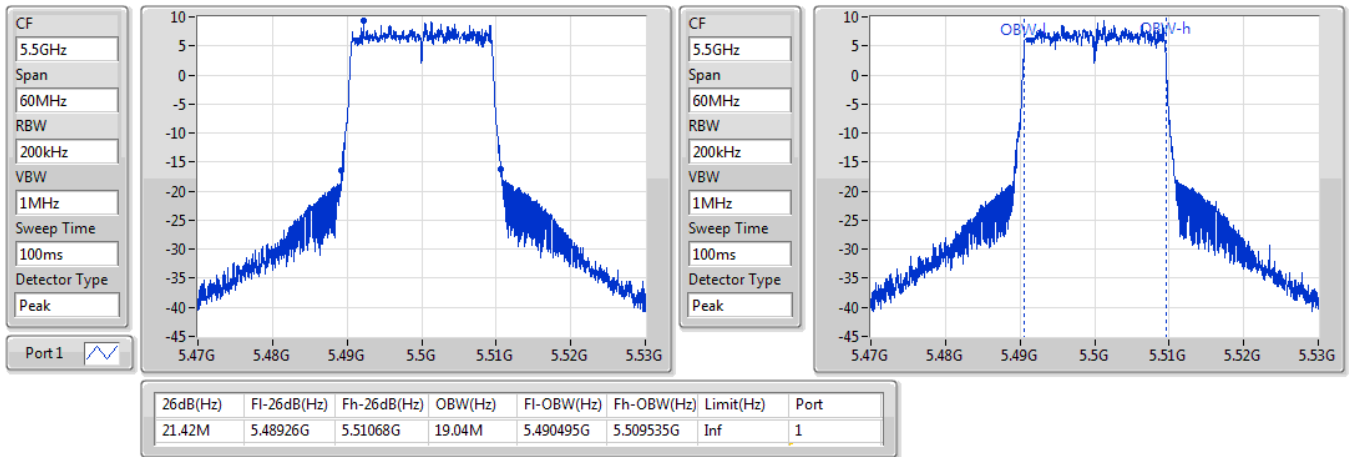


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5500MHz

31/01/2020

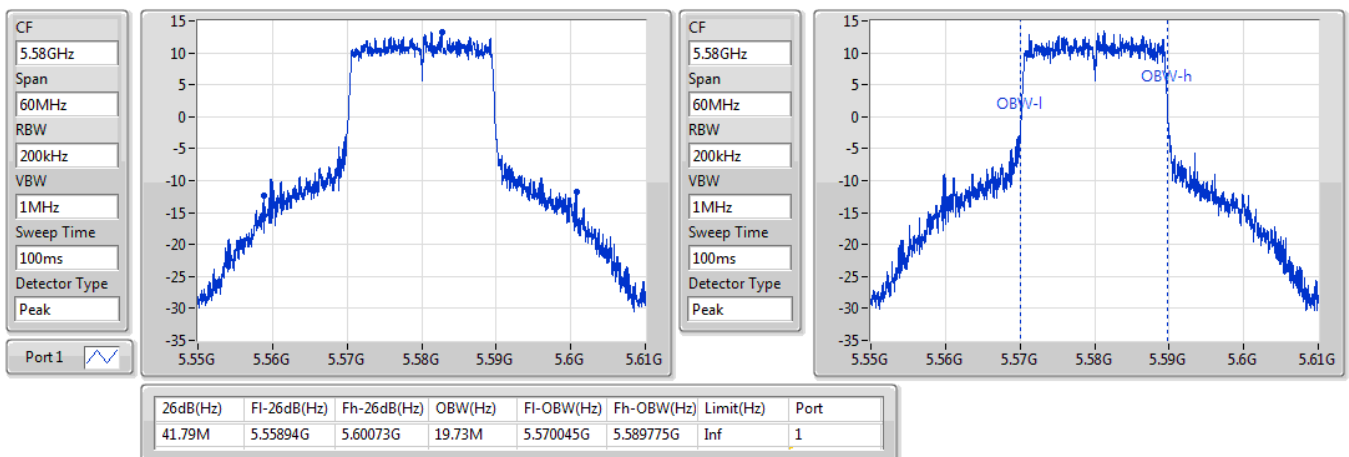


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5580MHz

31/01/2020

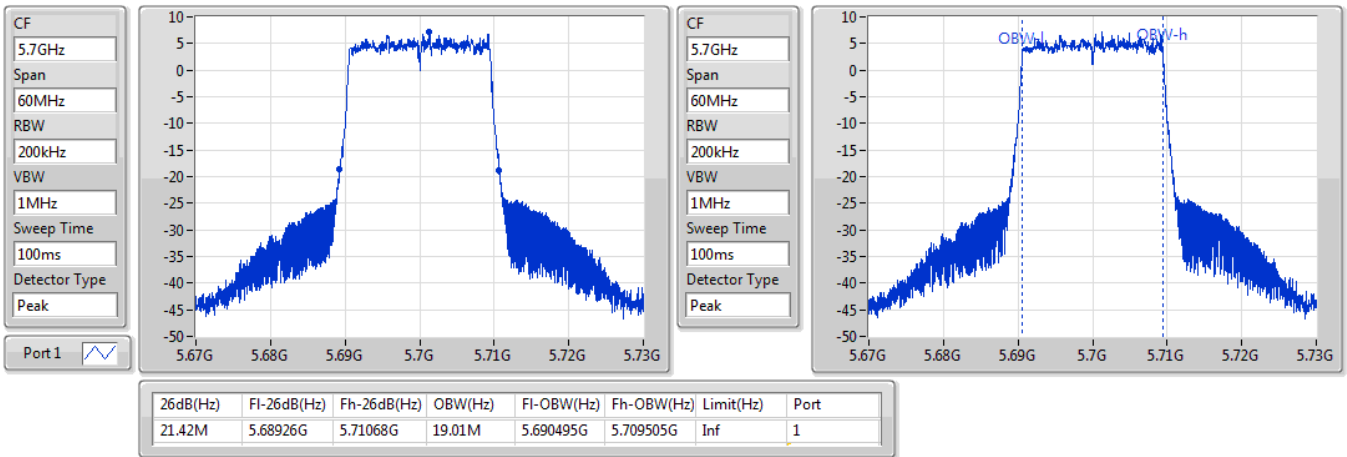


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5700MHz

31/01/2020

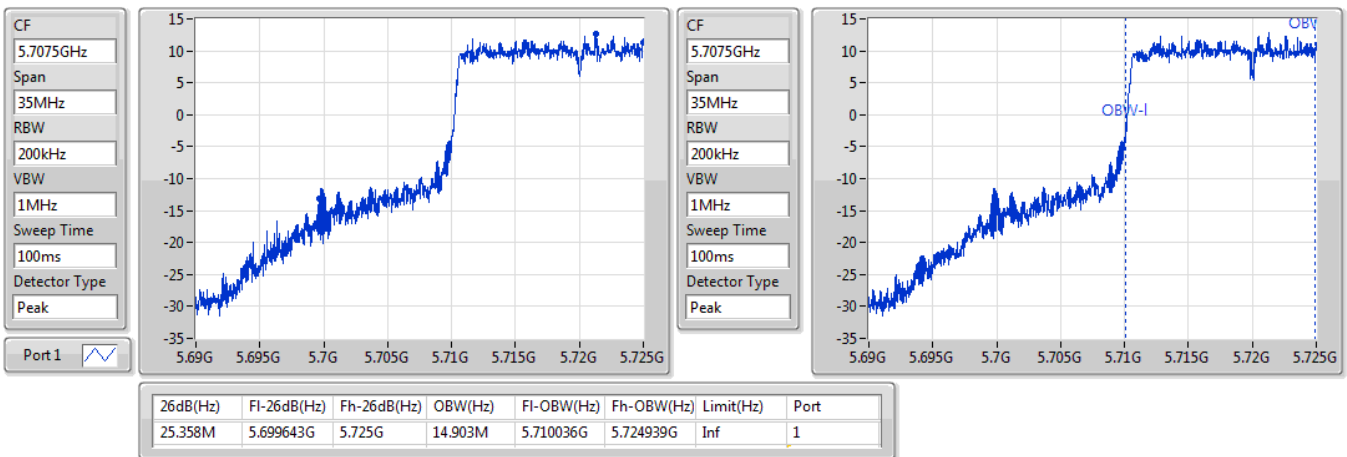


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5720MHz Straddle 5.47-5.725GHz

31/01/2020

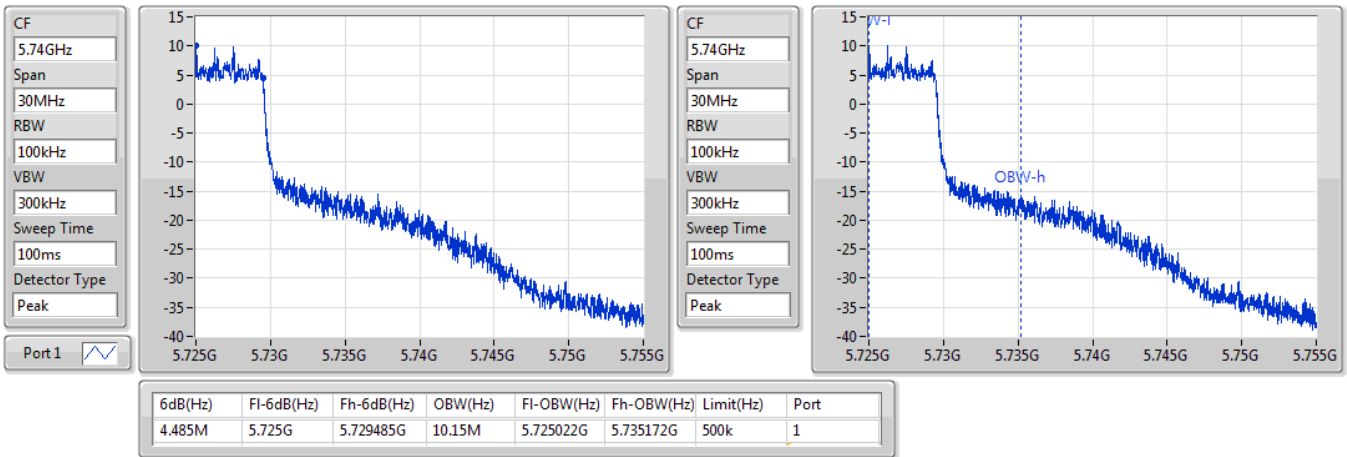


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

31/01/2020

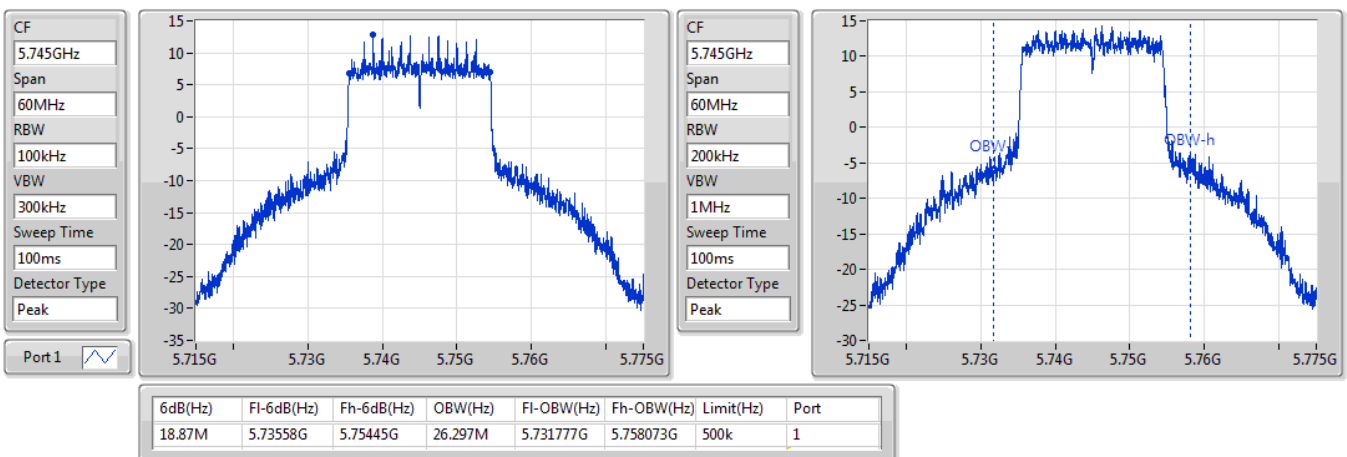


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

31/01/2020

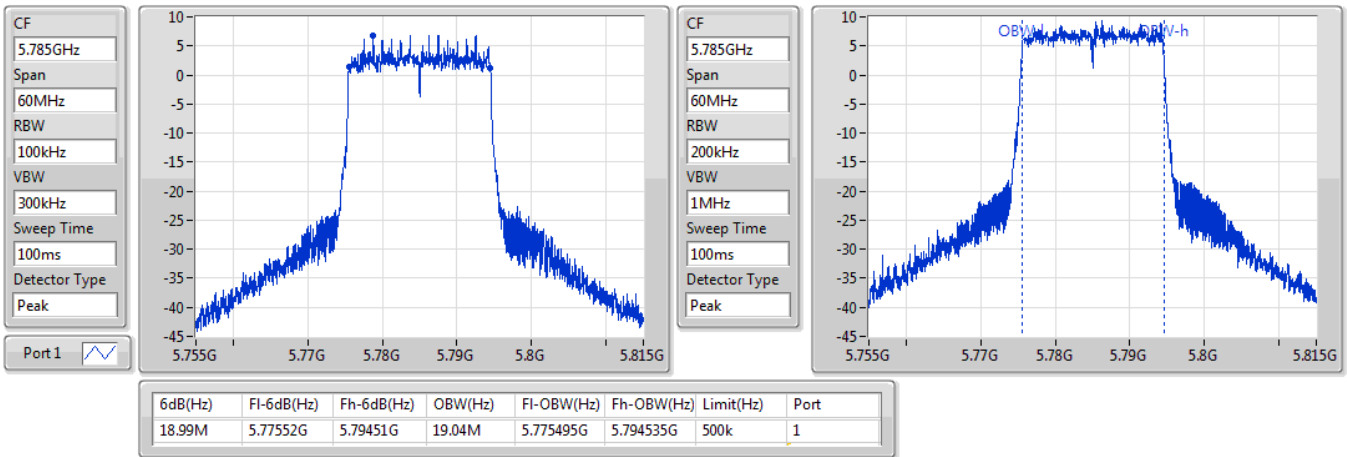


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5785MHz

31/01/2020

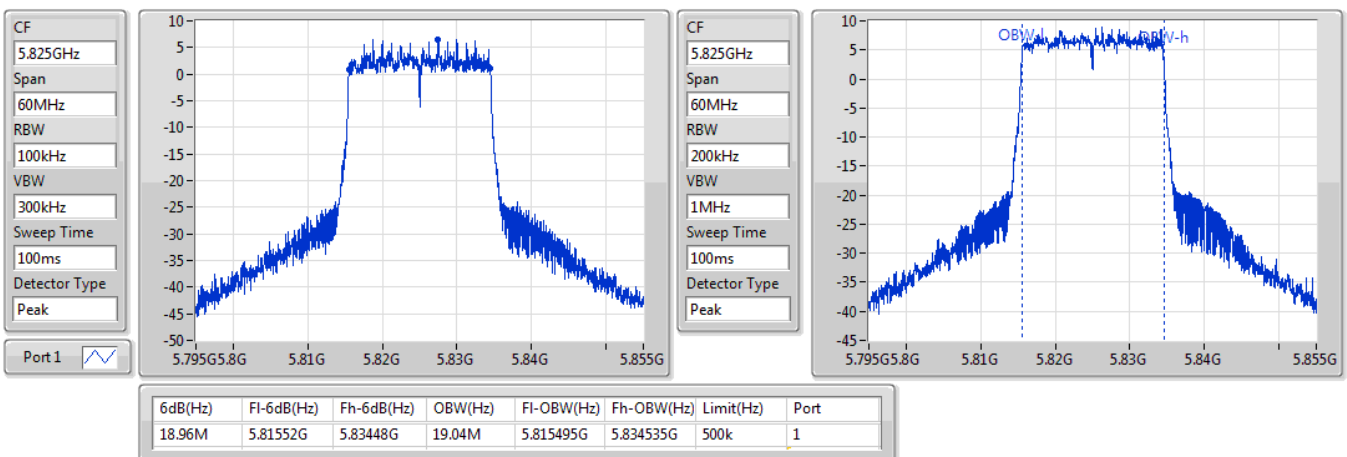


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5825MHz

31/01/2020

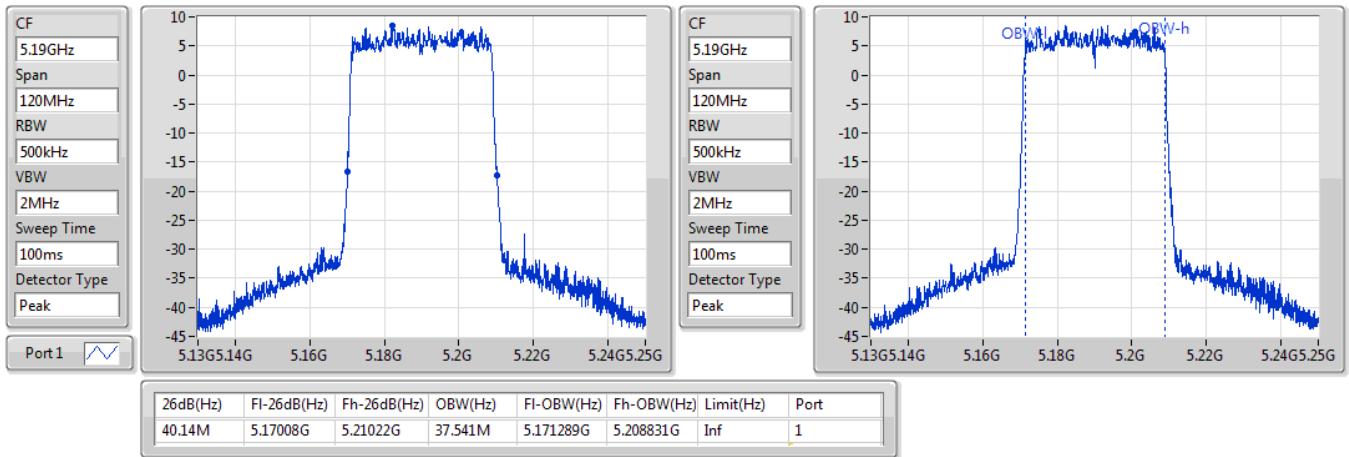


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5190MHz

01/02/2020

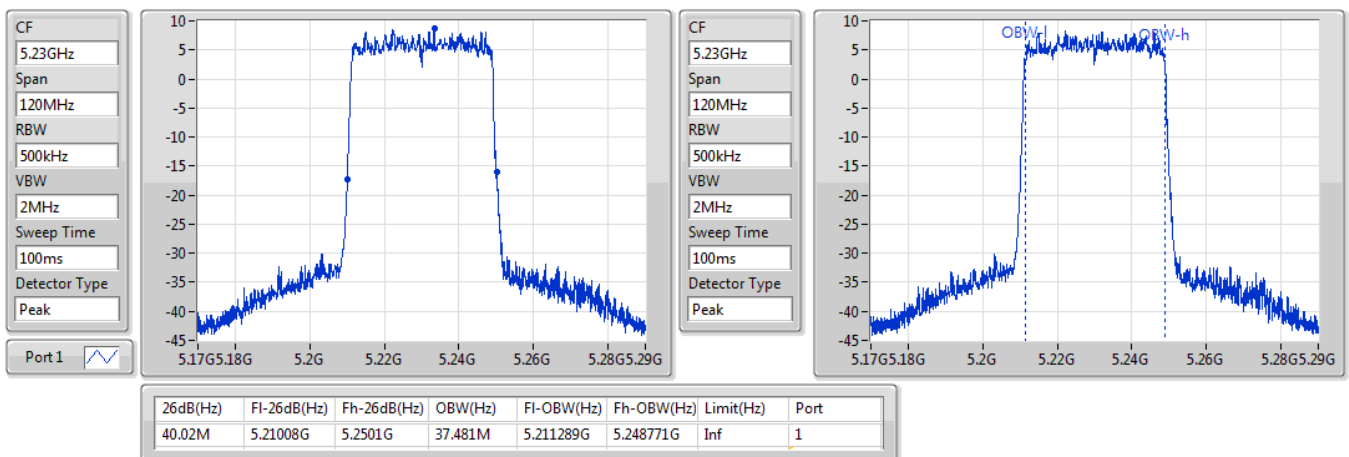


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5230MHz

01/02/2020

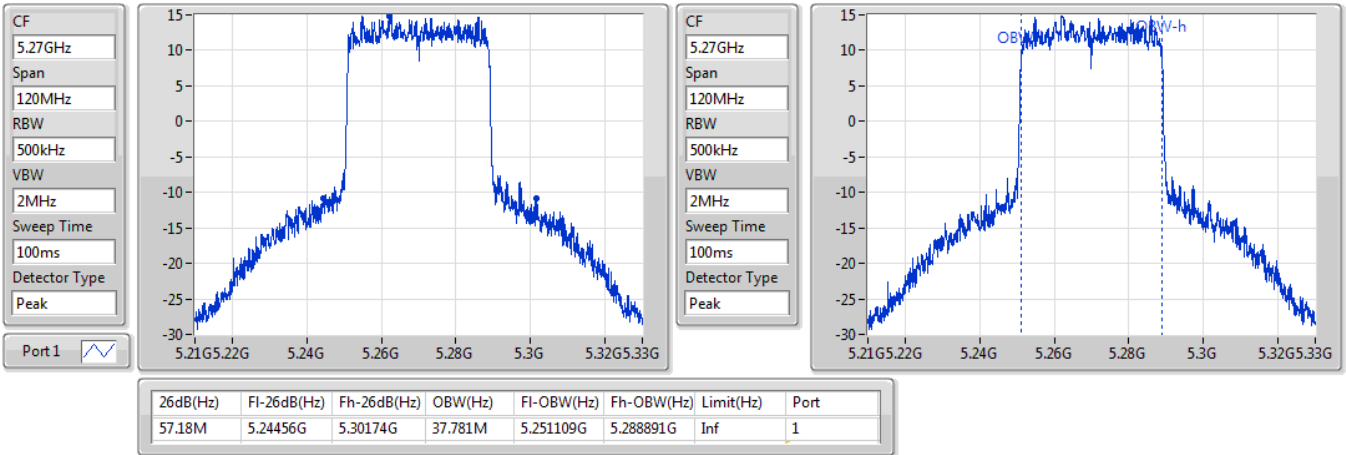


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5270MHz

31/01/2020

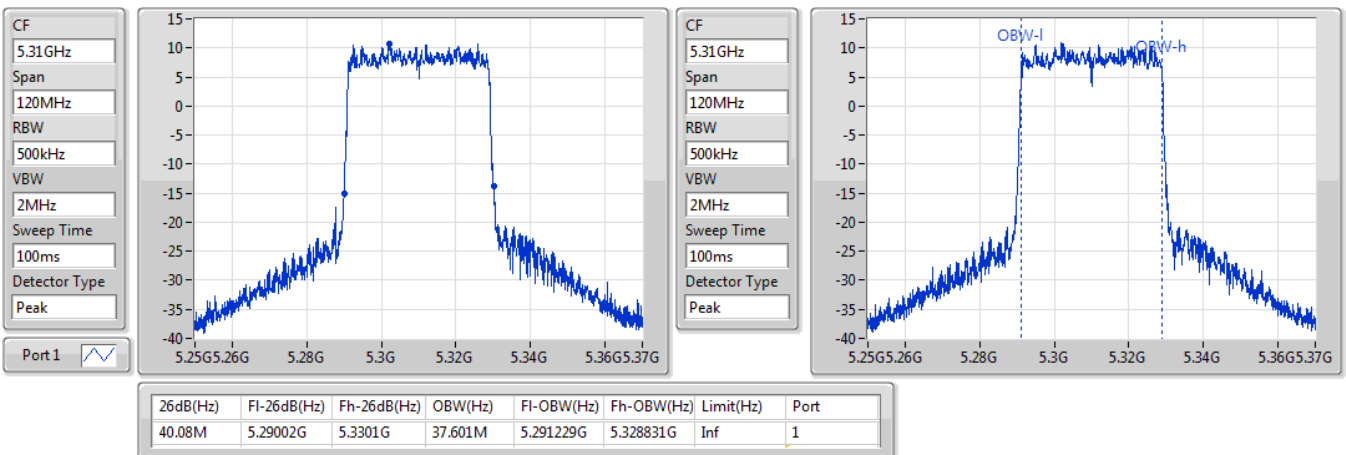


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5310MHz

31/01/2020

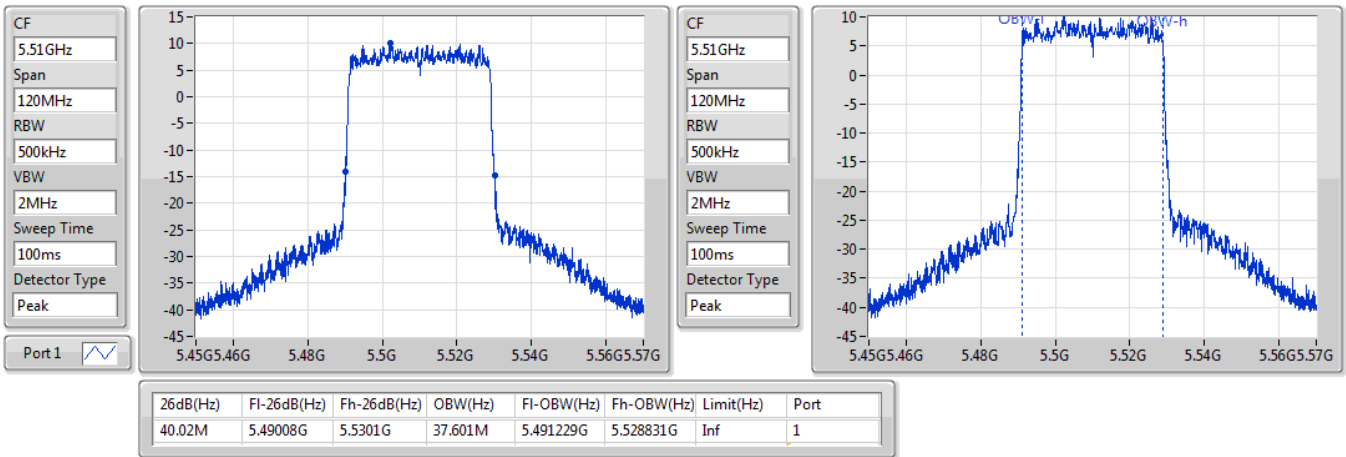


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5510MHz

31/01/2020

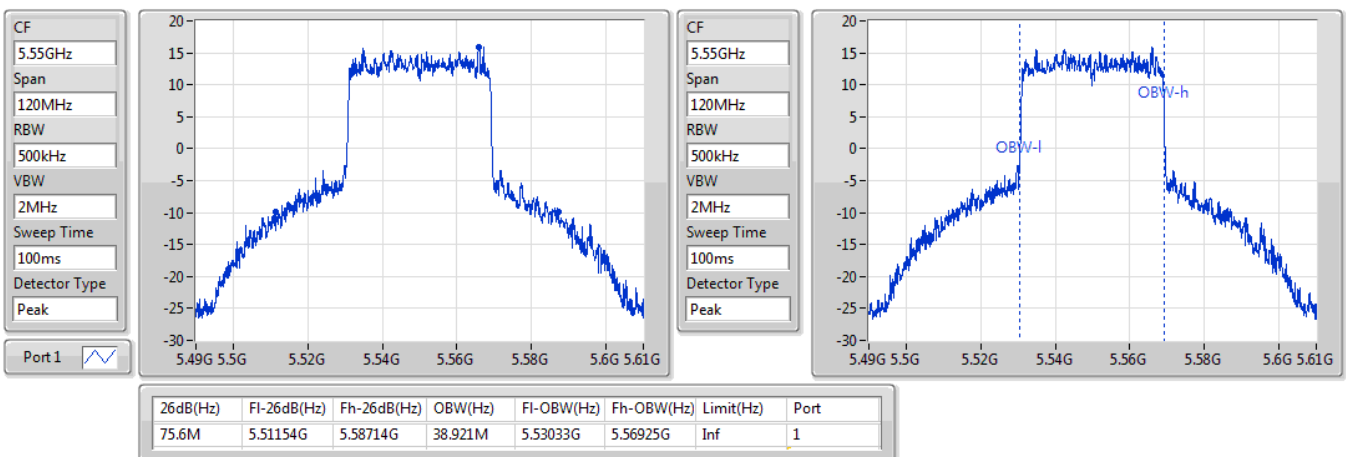


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5550MHz

31/01/2020

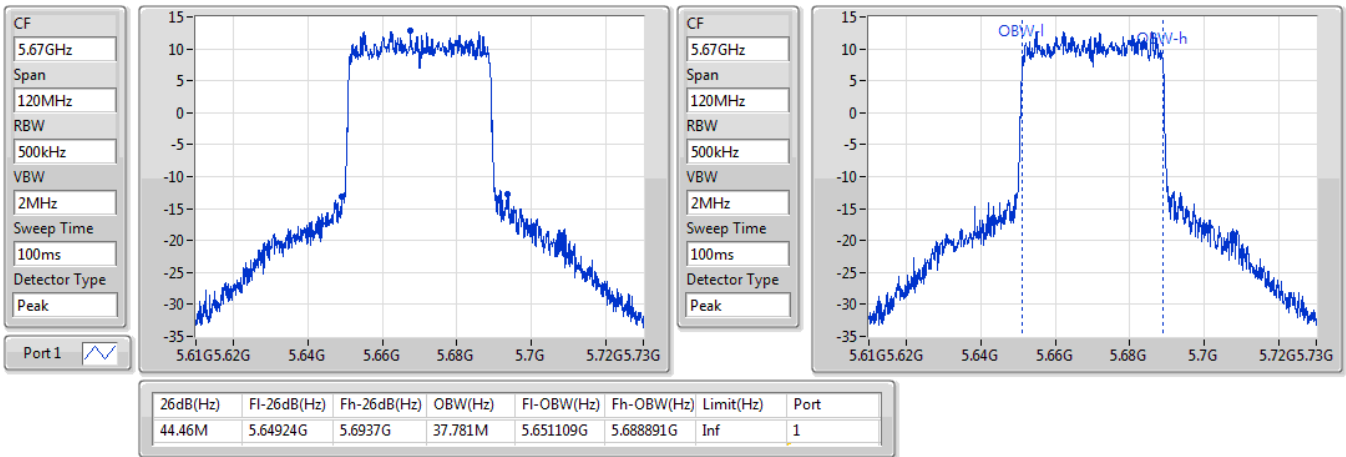


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5670MHz

31/01/2020

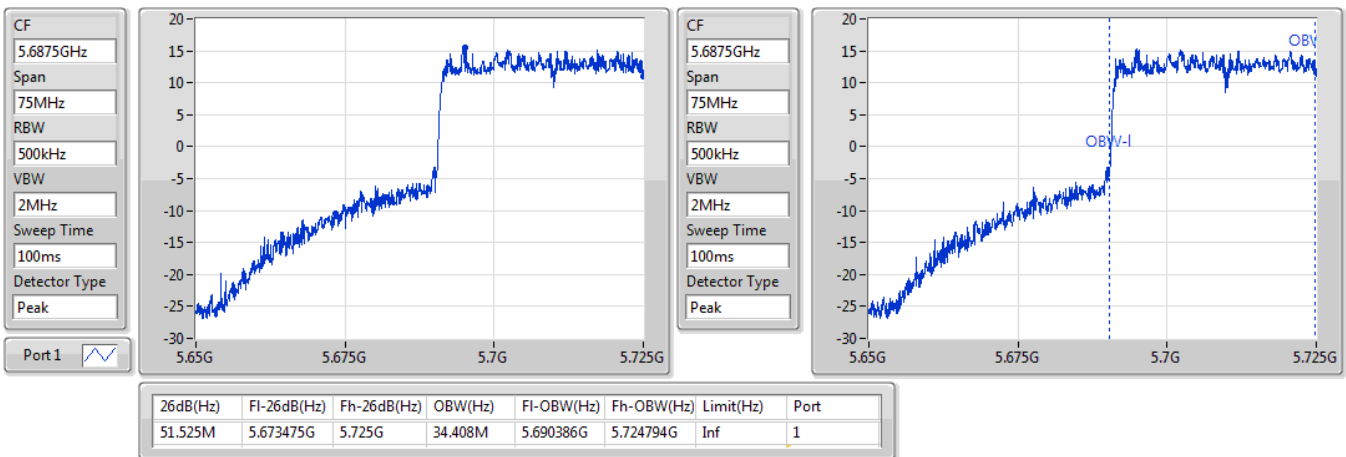


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5710MHz Straddle 5.47-5.725GHz

31/01/2020

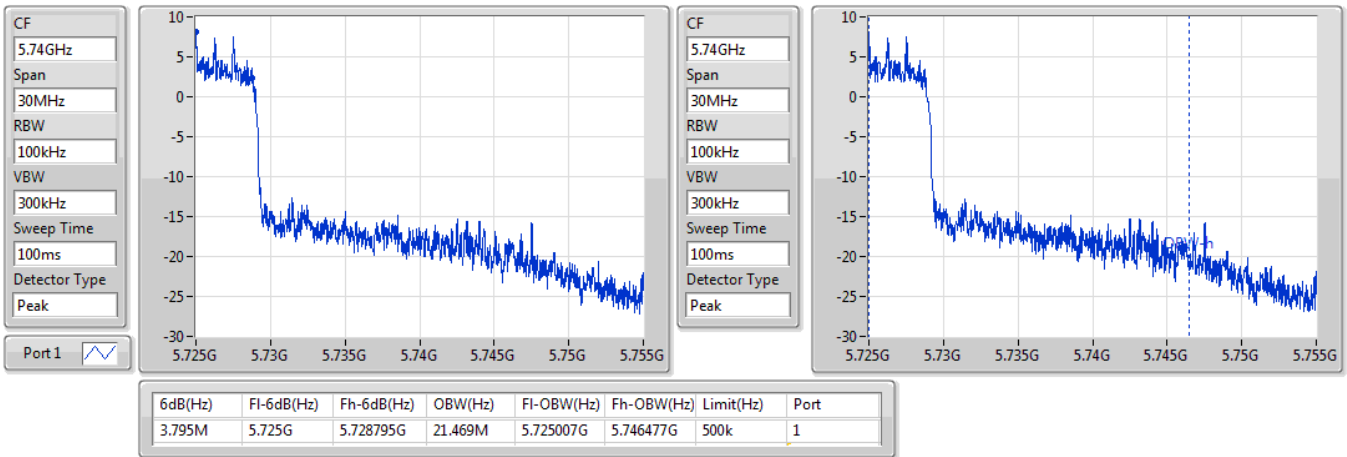


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5710MHz Straddle 5.725-5.85GHz

31/01/2020

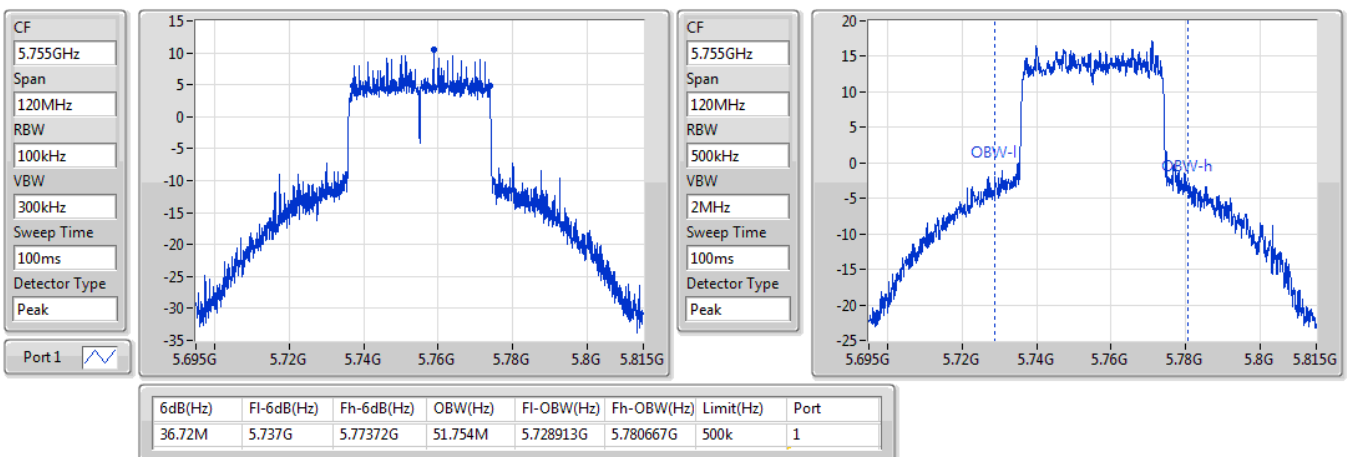


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5755MHz

31/01/2020

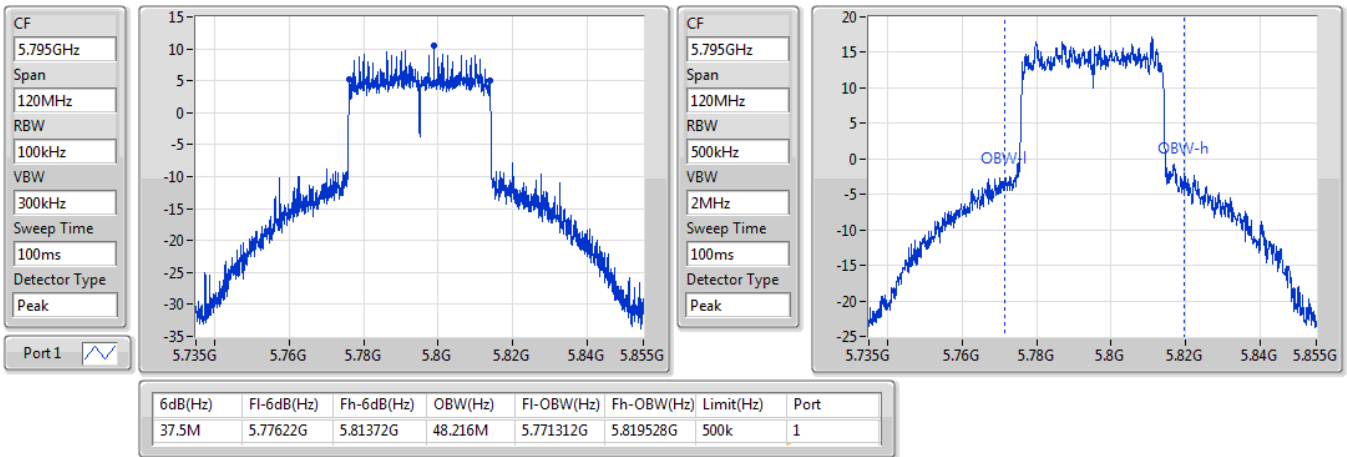


802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

5795MHz

31/01/2020

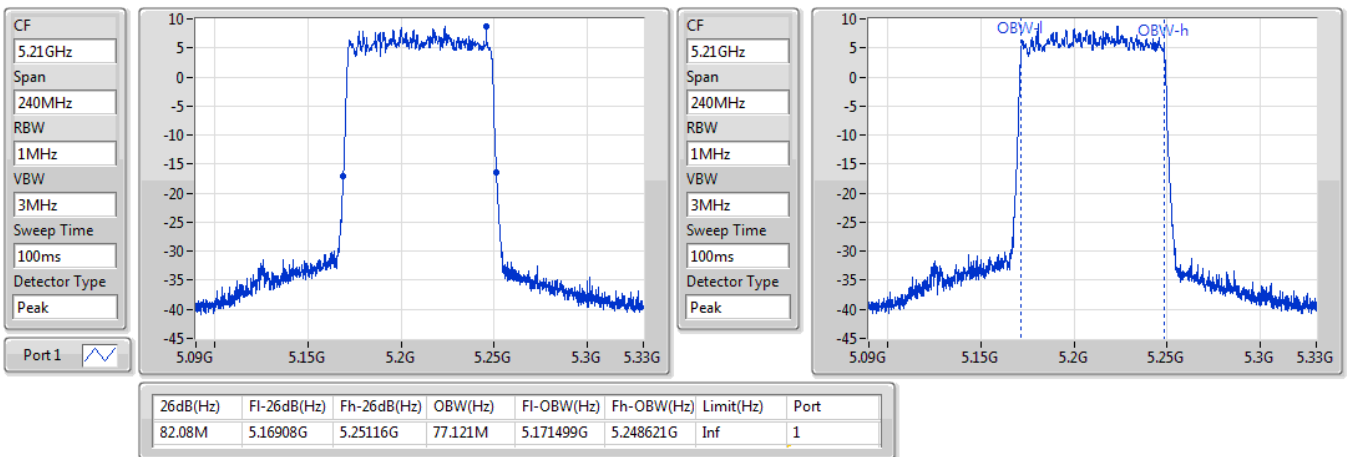


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5210MHz

01/02/2020

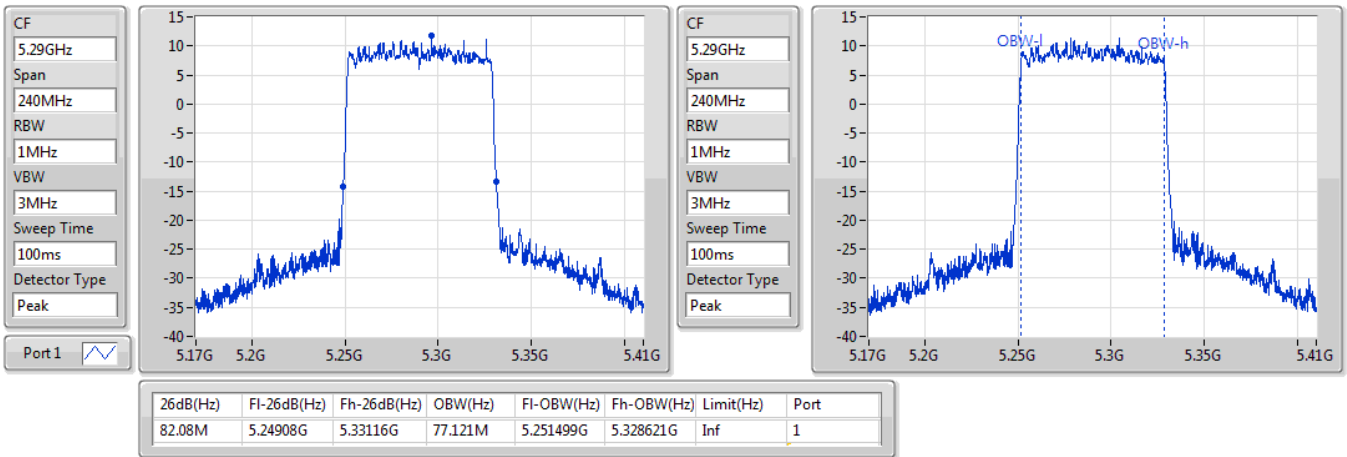


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5290MHz

31/01/2020

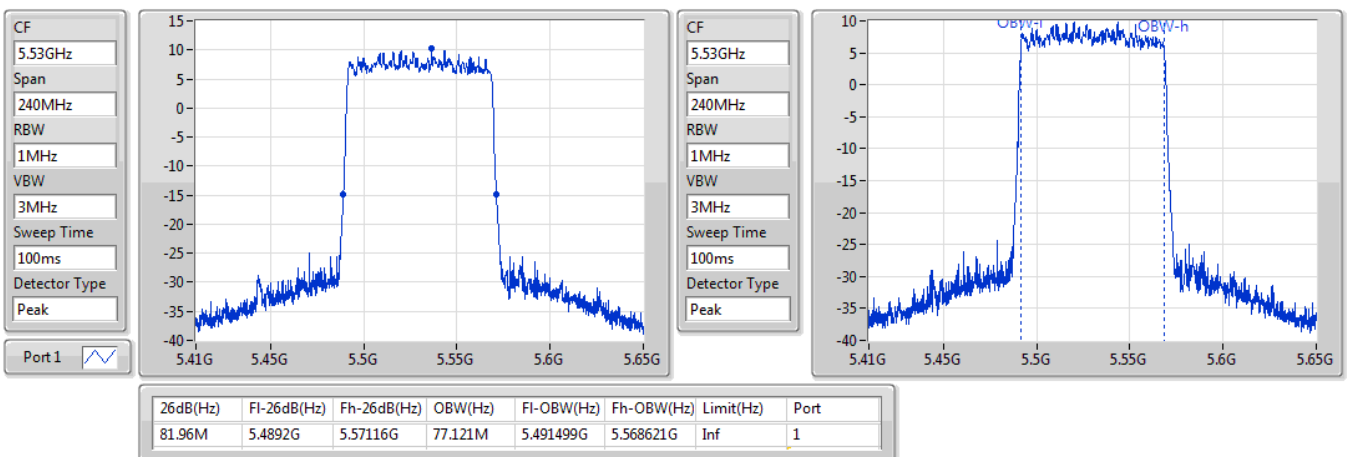


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5530MHz

31/01/2020

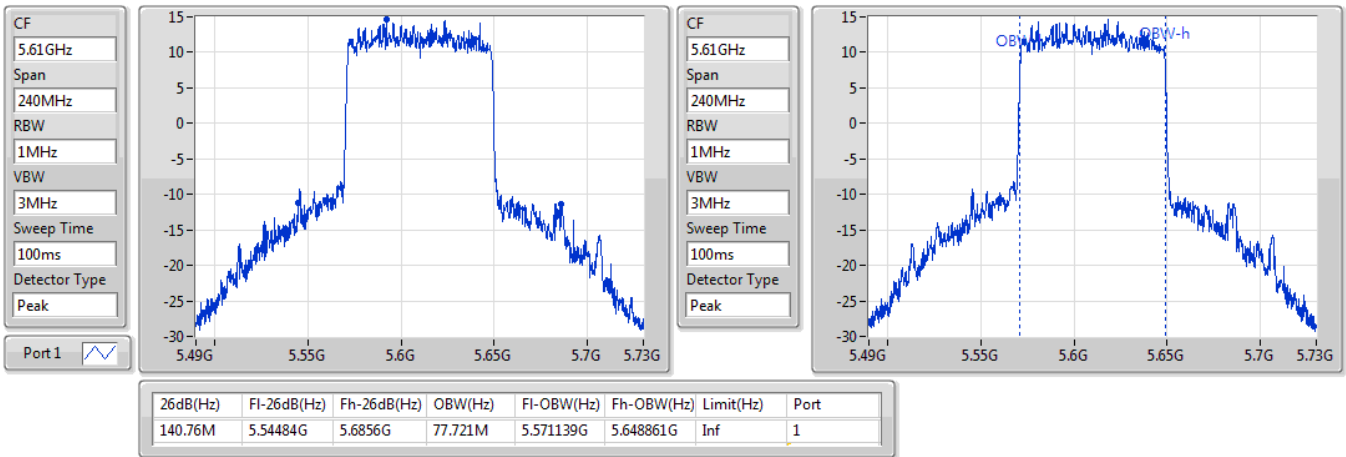


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5610MHz

31/01/2020

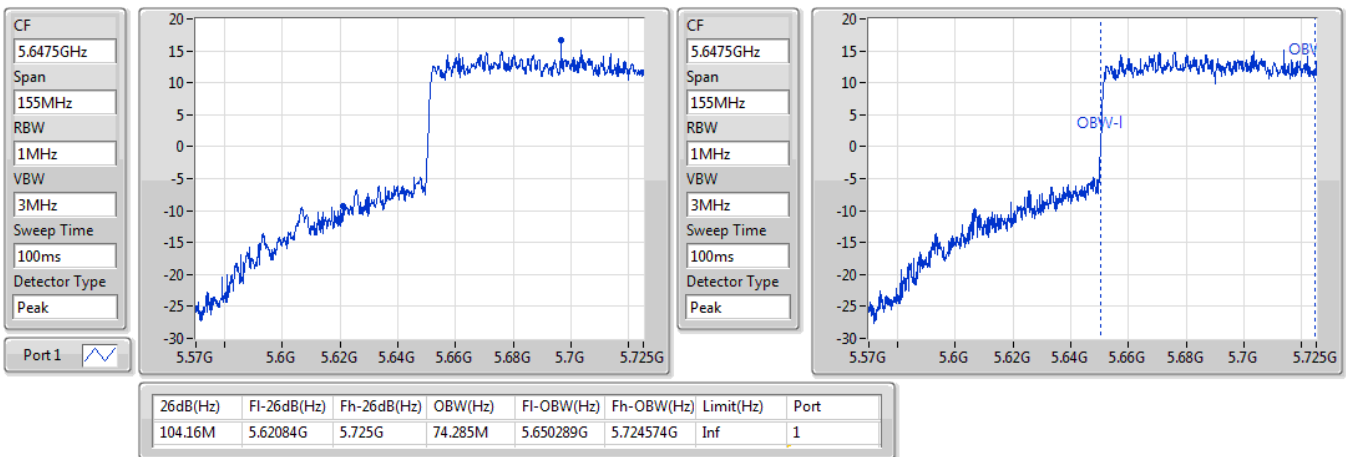


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.47-5.725GHz

31/01/2020

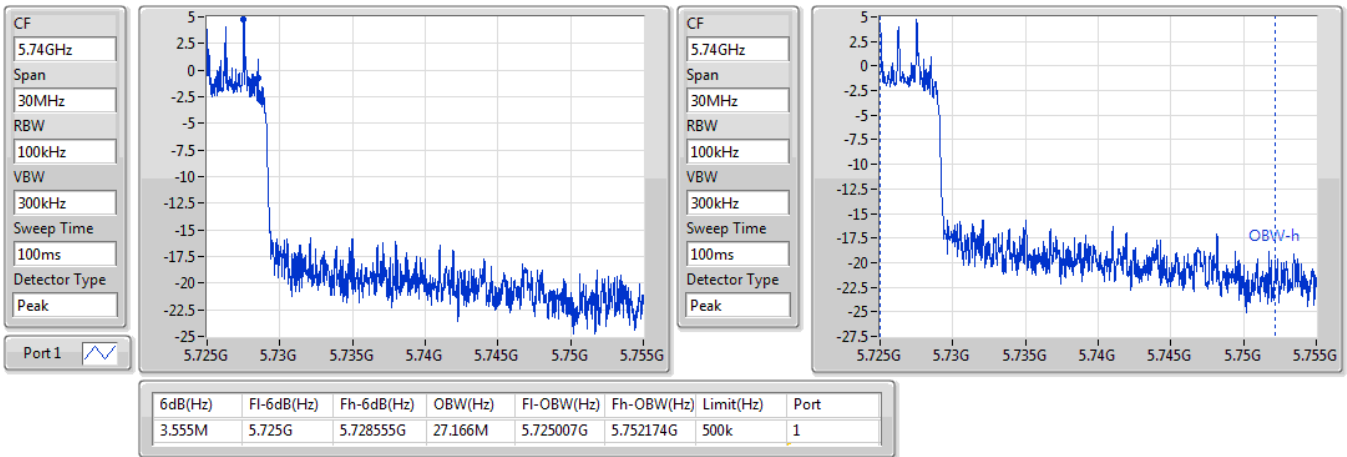


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.725-5.85GHz

31/01/2020

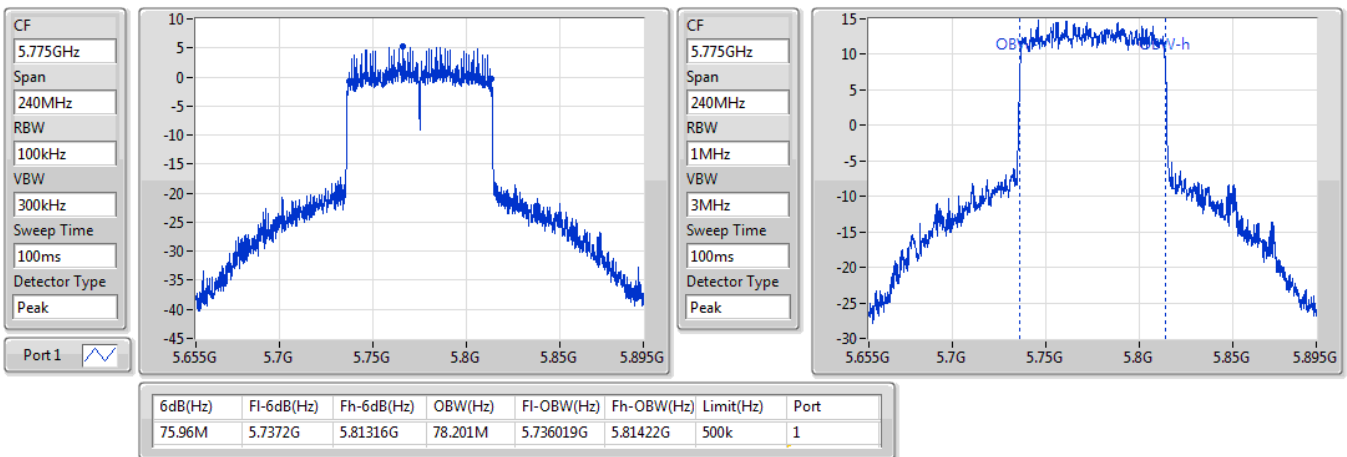


802.11ax HEW80_Nss1,(MCS0)_1TX

EBW

5775MHz

31/01/2020



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.24M	16.762M	16M8D1D	21.06M	16.642M
802.11ac VHT20_Nss2,(MCS0)_2TX	21.6M	17.871M	17M9D1D	21.3M	17.781M
802.11ac VHT40_Nss2,(MCS0)_2TX	40.2M	36.402M	36M4D1D	39.78M	36.342M
802.11ac VHT80_Nss2,(MCS0)_2TX	81.72M	75.802M	75M8D1D	81.6M	75.802M
802.11ax HEW20_Nss2,(MCS0)_2TX	21.57M	19.04M	19M0D1D	21.39M	19.01M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.14M	37.601M	37M6D1D	40.02M	37.541M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.24M	77.001M	77M0D1D	81.24M	77.001M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.87M	16.792M	16M8D1D	21.18M	16.702M
802.11ac VHT20_Nss2,(MCS0)_2TX	28.17M	18.081M	18M1D1D	21.27M	17.781M
802.11ac VHT40_Nss2,(MCS0)_2TX	52.32M	36.702M	36M7D1D	39.84M	36.342M
802.11ac VHT80_Nss2,(MCS0)_2TX	81.72M	75.922M	75M9D1D	81.72M	75.802M
802.11ax HEW20_Nss2,(MCS0)_2TX	27M	19.16M	19M2D1D	21.39M	19.01M
802.11ax HEW40_Nss2,(MCS0)_2TX	72.96M	37.841M	37M8D1D	40.02M	37.601M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.36M	77.001M	77M0D1D	81.12M	77.001M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.99M	16.882M	16M9D1D	16.503M	13.451M
802.11ac VHT20_Nss2,(MCS0)_2TX	34.02M	18.471M	18M5D1D	18.078M	14.08M
802.11ac VHT40_Nss2,(MCS0)_2TX	70.2M	37.421M	37M4D1D	39.78M	33.621M
802.11ac VHT80_Nss2,(MCS0)_2TX	126.325M	76.162M	76M2D1D	81.48M	73.123M
802.11ax HEW20_Nss2,(MCS0)_2TX	36.6M	19.22M	19M2D1D	18.725M	14.518M
802.11ax HEW40_Nss2,(MCS0)_2TX	76.62M	38.201M	38M2D1D	39.96M	34.033M
802.11ax HEW80_Nss2,(MCS0)_2TX	111.988M	77.241M	77M2D1D	81.36M	73.588M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.38M	17.151M	17M2D1D	3.195M	5.142M
802.11ac VHT20_Nss2,(MCS0)_2TX	17.58M	17.961M	18M0D1D	3.825M	5.247M
802.11ac VHT40_Nss2,(MCS0)_2TX	36.3M	37.121M	37M1D1D	3.18M	19.385M
802.11ac VHT80_Nss2,(MCS0)_2TX	75.72M	76.522M	76M5D1D	3.18M	24.843M
802.11ax HEW20_Nss2,(MCS0)_2TX	18.96M	19.1M	19M1D1D	4.5M	4.933M
802.11ax HEW40_Nss2,(MCS0)_2TX	37.5M	38.081M	38M1D1D	3.735M	20.39M
802.11ax HEW80_Nss2,(MCS0)_2TX	76.8M	77.601M	77M6D1D	3.375M	25.217M

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	21.24M	16.732M	21.06M	16.642M
5200MHz	Pass	Inf	21.24M	16.762M	21.06M	16.642M
5240MHz	Pass	Inf	21.21M	16.762M	21.09M	16.642M
5260MHz	Pass	Inf	21.18M	16.762M	21.87M	16.732M
5300MHz	Pass	Inf	21.27M	16.792M	21.87M	16.762M
5320MHz	Pass	Inf	21.24M	16.792M	21.72M	16.702M
5500MHz	Pass	Inf	21.21M	16.762M	21.78M	16.702M
5580MHz	Pass	Inf	21.54M	16.882M	21.99M	16.732M
5700MHz	Pass	Inf	21.21M	16.732M	21.48M	16.642M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.503M	13.451M	17.518M	13.521M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.195M	5.142M	3.195M	5.562M
5745MHz	Pass	500k	16.32M	17.031M	16.35M	17.151M
5785MHz	Pass	500k	16.38M	16.762M	16.35M	16.672M
5825MHz	Pass	500k	16.35M	16.762M	16.32M	16.642M
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.54M	17.871M	21.39M	17.781M
5200MHz	Pass	Inf	21.6M	17.871M	21.3M	17.781M
5240MHz	Pass	Inf	21.54M	17.871M	21.42M	17.781M
5260MHz	Pass	Inf	24.87M	18.081M	28.17M	17.991M
5300MHz	Pass	Inf	24.78M	18.081M	26.1M	18.051M
5320MHz	Pass	Inf	21.57M	17.871M	21.27M	17.781M
5500MHz	Pass	Inf	21.54M	17.901M	21.42M	17.811M
5580MHz	Pass	Inf	34.02M	18.471M	33.6M	18.201M
5700MHz	Pass	Inf	21.54M	17.871M	21.48M	17.781M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	19.565M	14.098M	18.078M	14.08M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.825M	5.247M	3.825M	5.427M
5745MHz	Pass	500k	17.58M	17.961M	17.58M	17.871M
5785MHz	Pass	500k	17.55M	17.871M	17.58M	17.781M
5825MHz	Pass	500k	17.58M	17.901M	17.58M	17.781M
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.78M	36.402M	39.9M	36.342M
5230MHz	Pass	Inf	40.2M	36.402M	39.78M	36.342M
5270MHz	Pass	Inf	52.32M	36.702M	45.66M	36.462M
5310MHz	Pass	Inf	39.96M	36.402M	39.84M	36.342M
5510MHz	Pass	Inf	39.78M	36.342M	39.78M	36.342M
5550MHz	Pass	Inf	70.2M	37.421M	50.7M	36.702M
5670MHz	Pass	Inf	40.92M	36.522M	39.96M	36.402M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	53.25M	33.846M	52.763M	33.621M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	19.385M	3.18M	19.445M
5755MHz	Pass	500k	36.3M	37.121M	36.3M	36.582M
5795MHz	Pass	500k	36.3M	36.462M	36.3M	36.342M
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.72M	75.802M	81.6M	75.802M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5290MHz	Pass	Inf	81.72M	75.922M	81.72M	75.802M
5530MHz	Pass	Inf	81.48M	75.922M	81.48M	75.802M
5610MHz	Pass	Inf	102.36M	76.162M	103.32M	76.042M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	114.235M	73.123M	126.325M	73.356M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	25.292M	3.18M	24.843M
5775MHz	Pass	500k	75.6M	76.402M	75.72M	76.522M
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	19.01M	21.39M	19.04M
5200MHz	Pass	Inf	21.51M	19.01M	21.39M	19.04M
5240MHz	Pass	Inf	21.57M	19.04M	21.39M	19.04M
5260MHz	Pass	Inf	22.29M	19.07M	23.16M	19.13M
5300MHz	Pass	Inf	22.89M	19.1M	27M	19.16M
5320MHz	Pass	Inf	21.57M	19.01M	21.39M	19.07M
5500MHz	Pass	Inf	21.63M	19.01M	21.42M	19.07M
5580MHz	Pass	Inf	26.19M	19.19M	36.6M	19.22M
5700MHz	Pass	Inf	21.66M	19.04M	21.3M	19.04M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	18.725M	14.518M	19.565M	14.518M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.933M	4.5M	6.582M
5745MHz	Pass	500k	18.96M	19.04M	18.93M	19.1M
5785MHz	Pass	500k	18.96M	19.04M	18.87M	19.04M
5825MHz	Pass	500k	18.96M	19.04M	18.84M	19.04M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.601M	40.08M	37.541M
5230MHz	Pass	Inf	40.02M	37.601M	40.14M	37.541M
5270MHz	Pass	Inf	55.26M	37.841M	72.96M	37.841M
5310MHz	Pass	Inf	40.08M	37.601M	40.02M	37.601M
5510MHz	Pass	Inf	39.96M	37.601M	40.02M	37.541M
5550MHz	Pass	Inf	76.44M	38.201M	76.62M	38.021M
5670MHz	Pass	Inf	49.08M	37.781M	62.28M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	53.813M	34.07M	53.888M	34.033M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.735M	20.39M	3.825M	21.319M
5755MHz	Pass	500k	37.5M	38.081M	37.02M	37.961M
5795MHz	Pass	500k	37.5M	37.721M	36.96M	37.601M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.24M	77.001M	81.24M	77.001M
5290MHz	Pass	Inf	81.12M	77.001M	81.36M	77.001M
5530MHz	Pass	Inf	81.36M	77.001M	81.36M	77.001M
5610MHz	Pass	Inf	84.24M	77.241M	81.36M	77.241M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	102.61M	73.588M	111.988M	73.743M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.375M	25.217M	3.735M	25.442M
5775MHz	Pass	500k	76.8M	77.601M	75.24M	77.601M

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

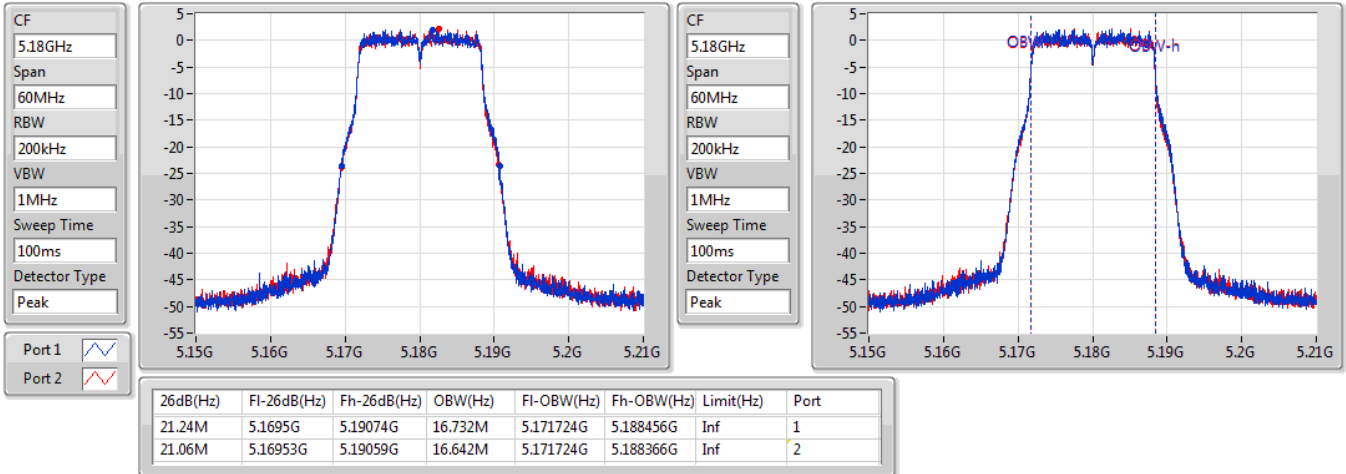
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

03/02/2020

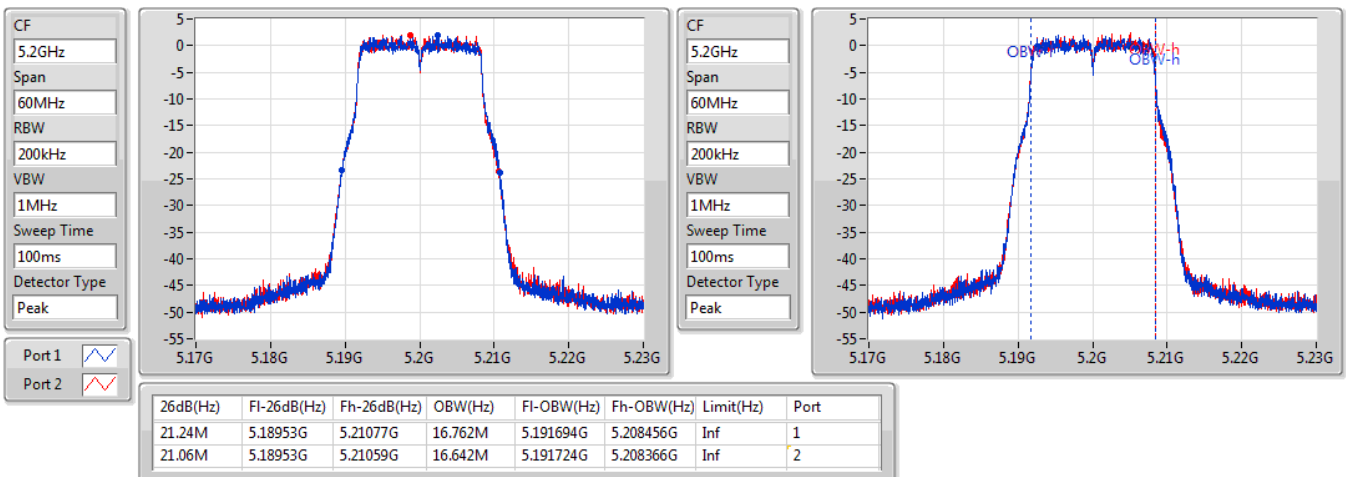


802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

03/02/2020

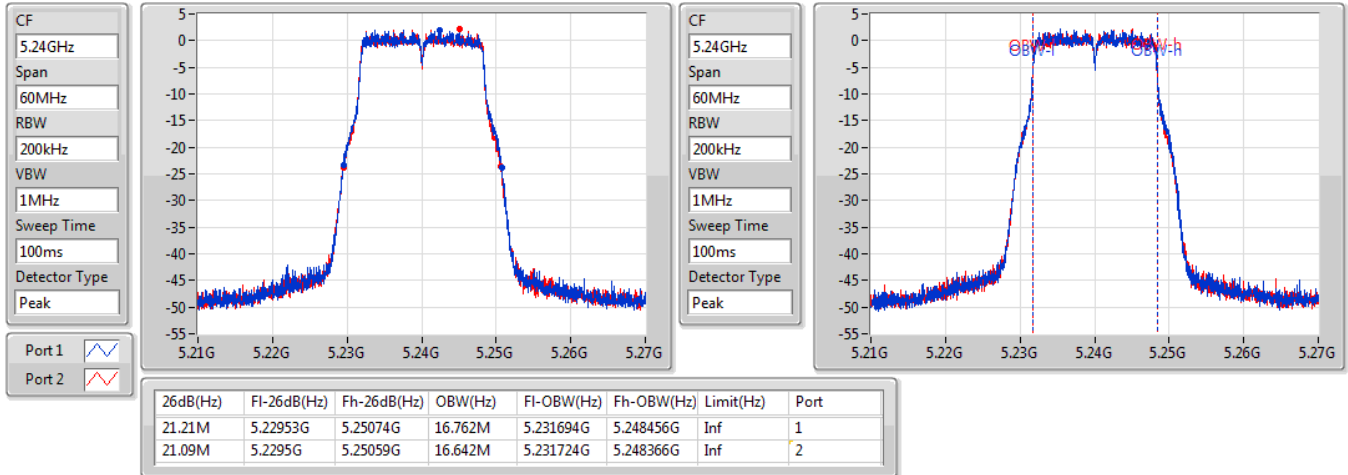


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

03/02/2020

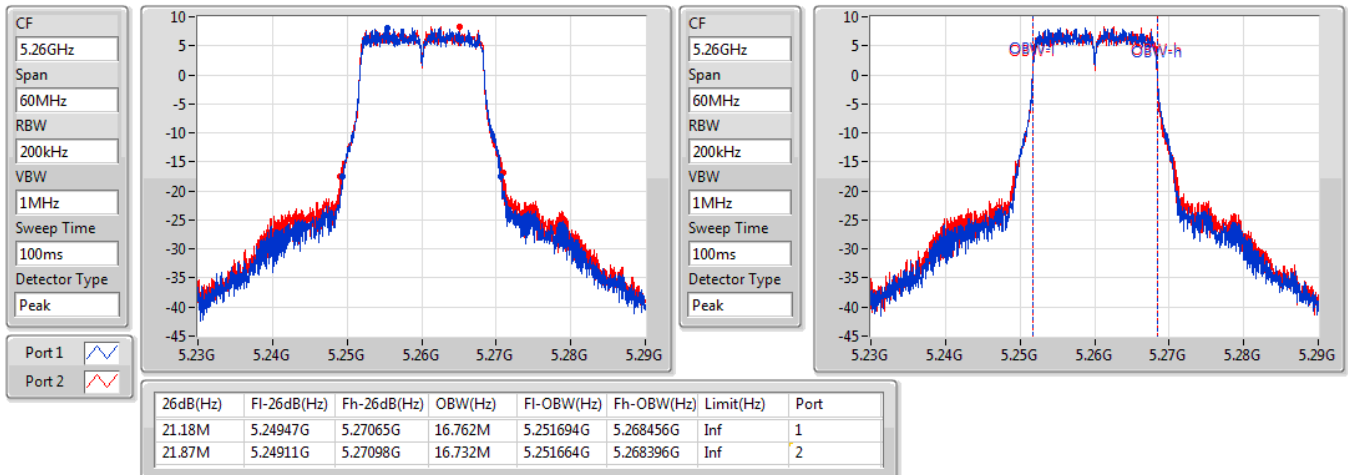


802.11a_Nss1,(6Mbps)_2TX

EBW

5260MHz

03/02/2020

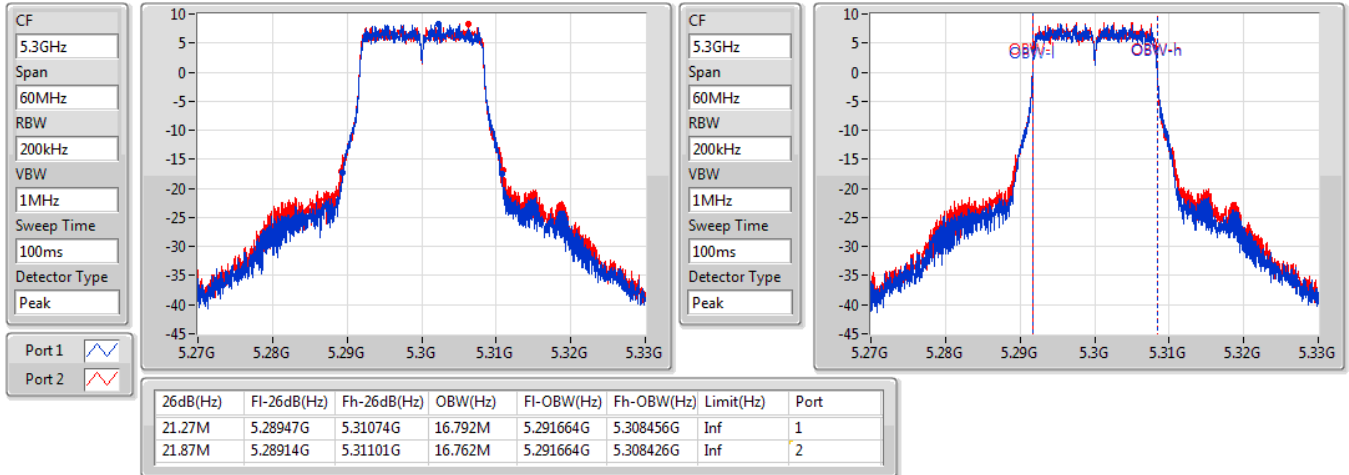


802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

03/02/2020

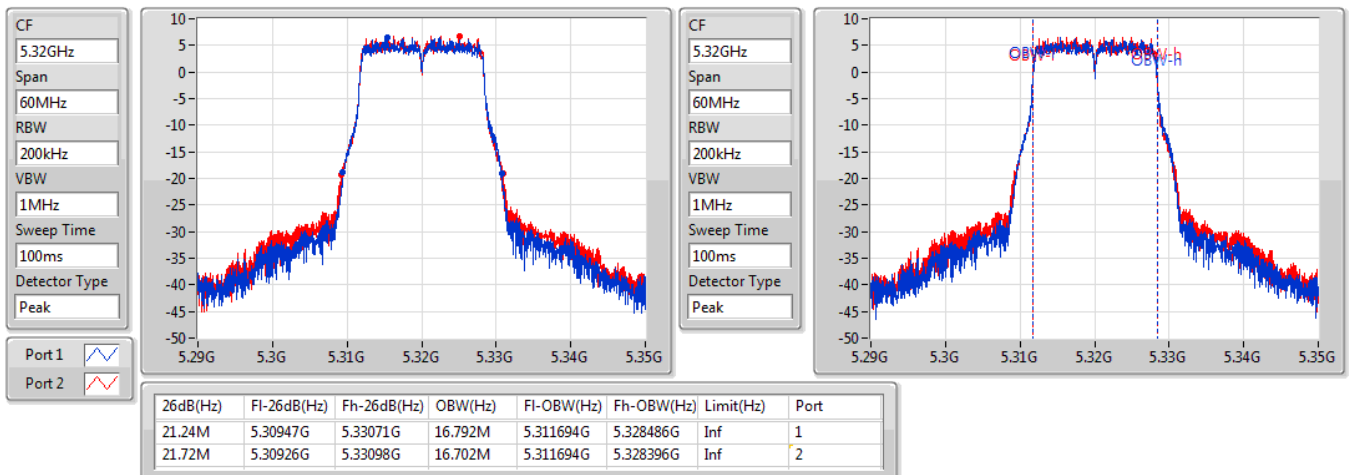


802.11a_Nss1,(6Mbps)_2TX

EBW

5320MHz

03/02/2020

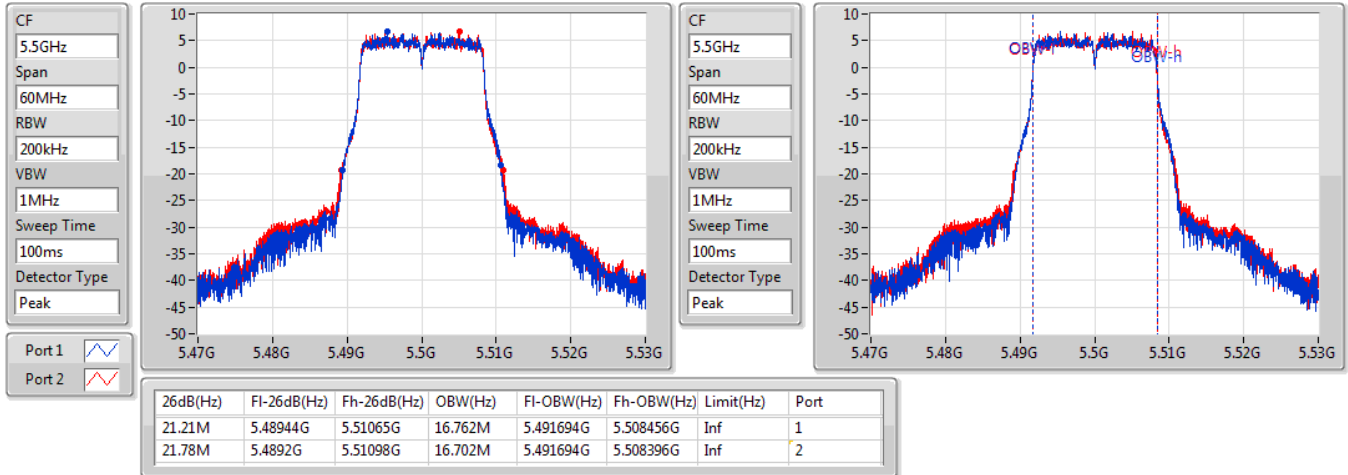


802.11a_Nss1,(6Mbps)_2TX

EBW

5500MHz

03/02/2020

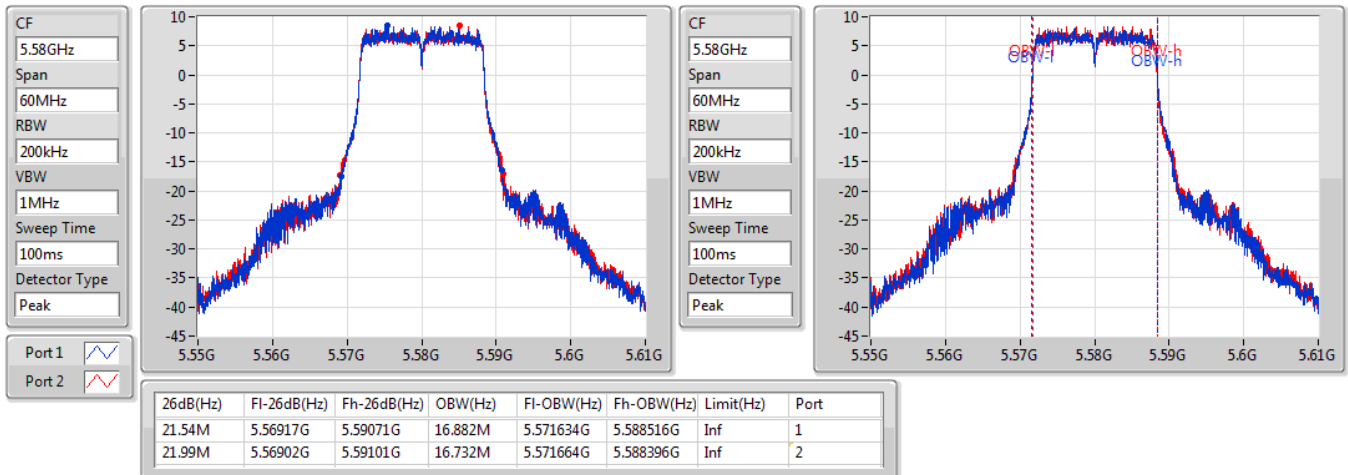


802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

03/02/2020

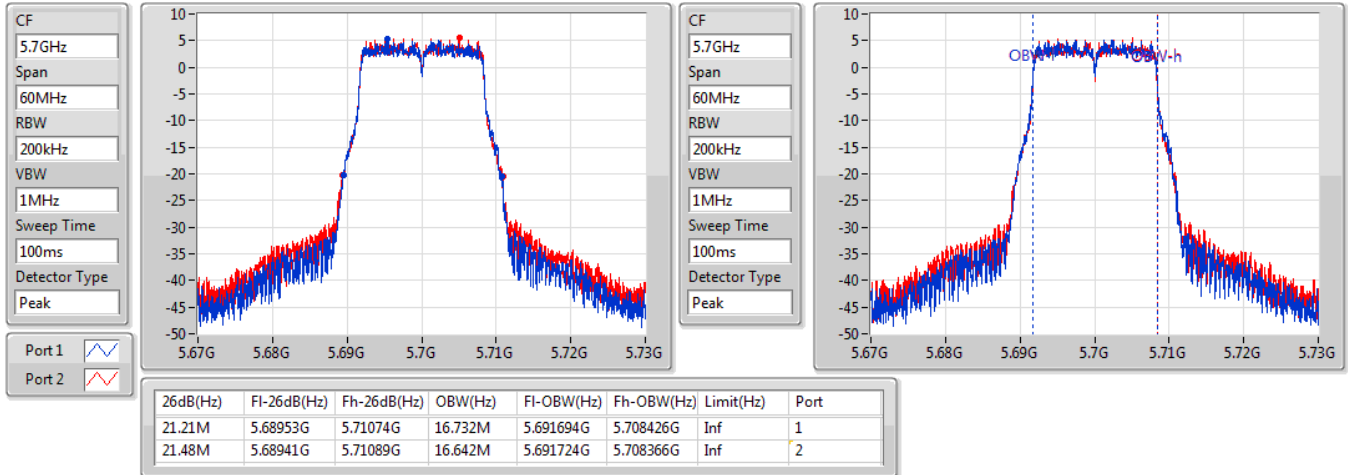


802.11a_Nss1,(6Mbps)_2TX

EBW

5700MHz

03/02/2020

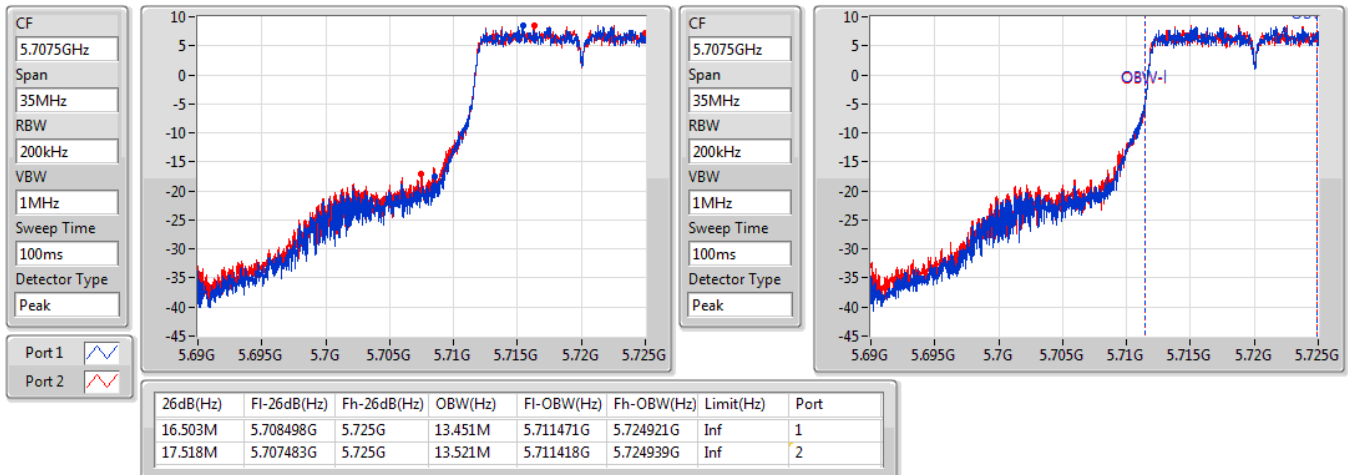


802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

03/02/2020

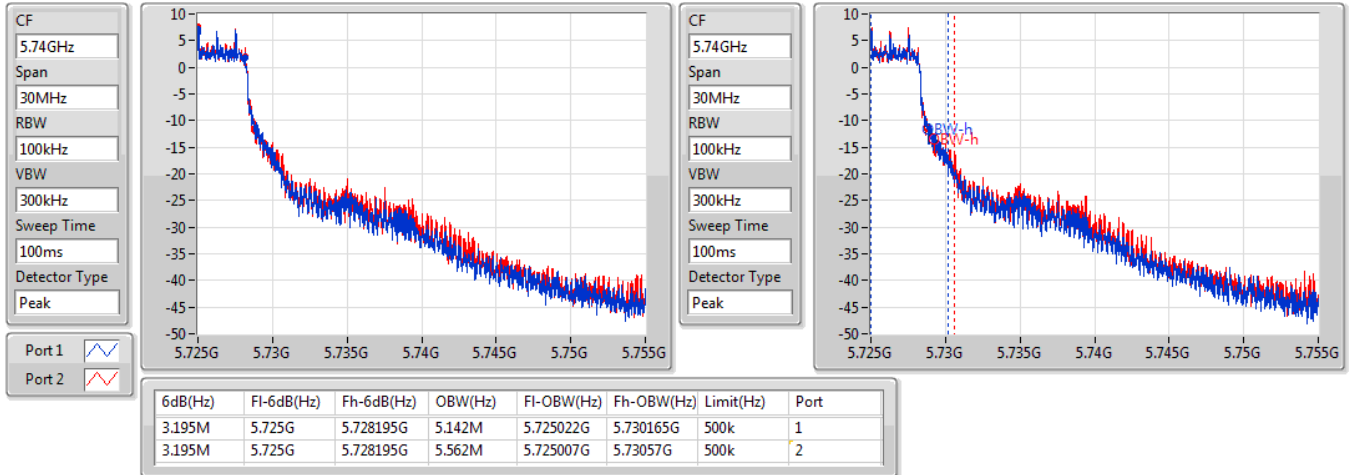


802.11a_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

03/02/2020

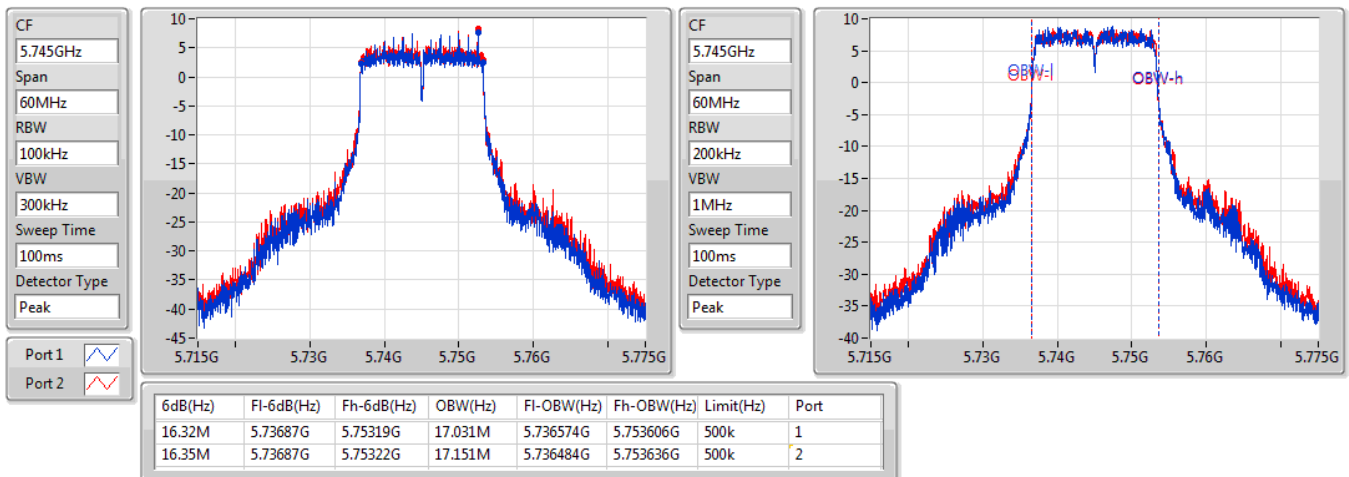


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

03/02/2020

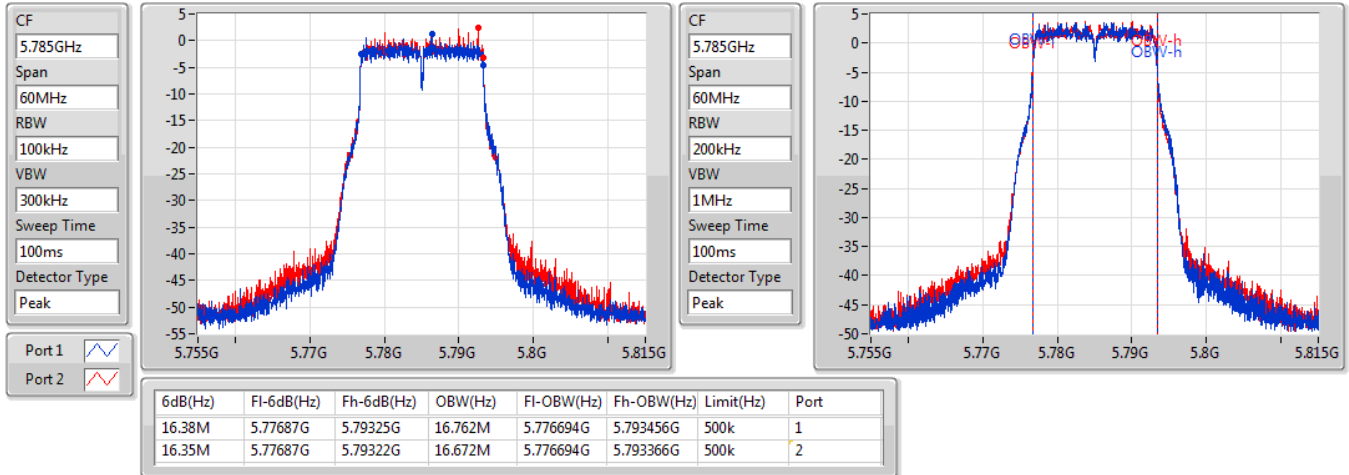


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

03/02/2020

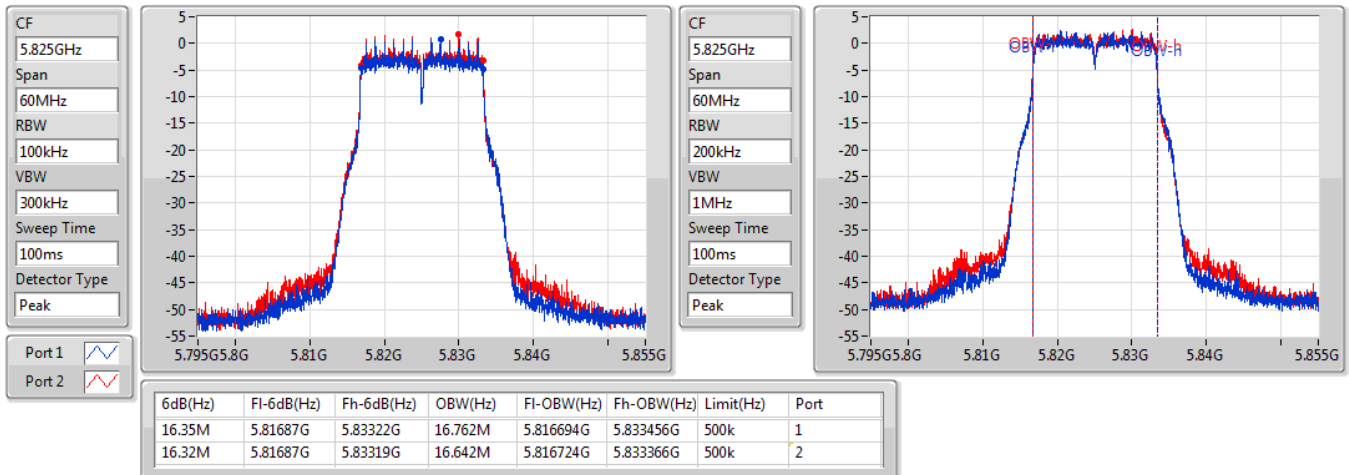


802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

03/02/2020

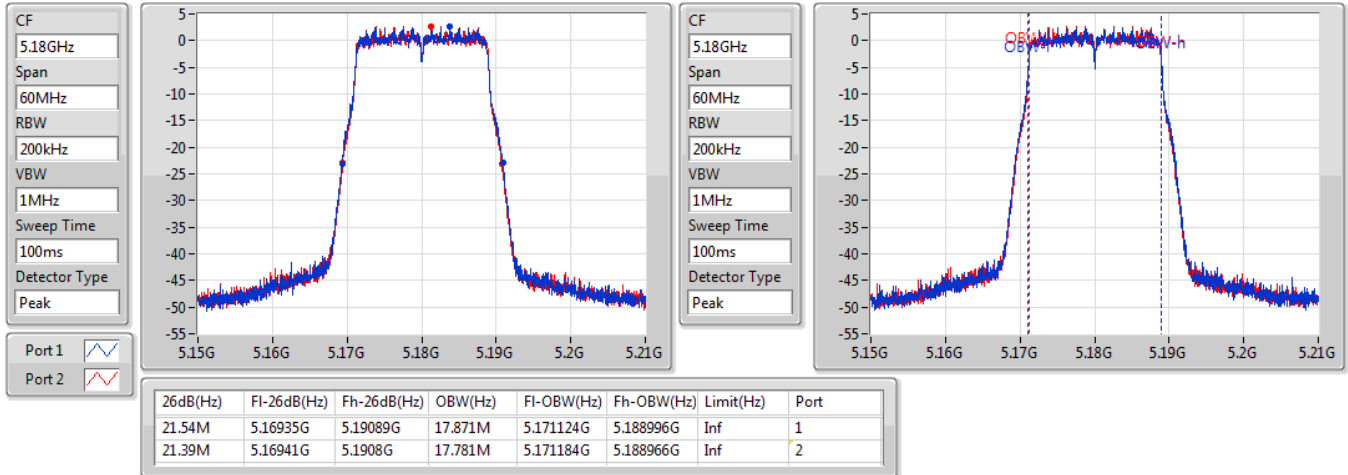


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5180MHz

03/02/2020

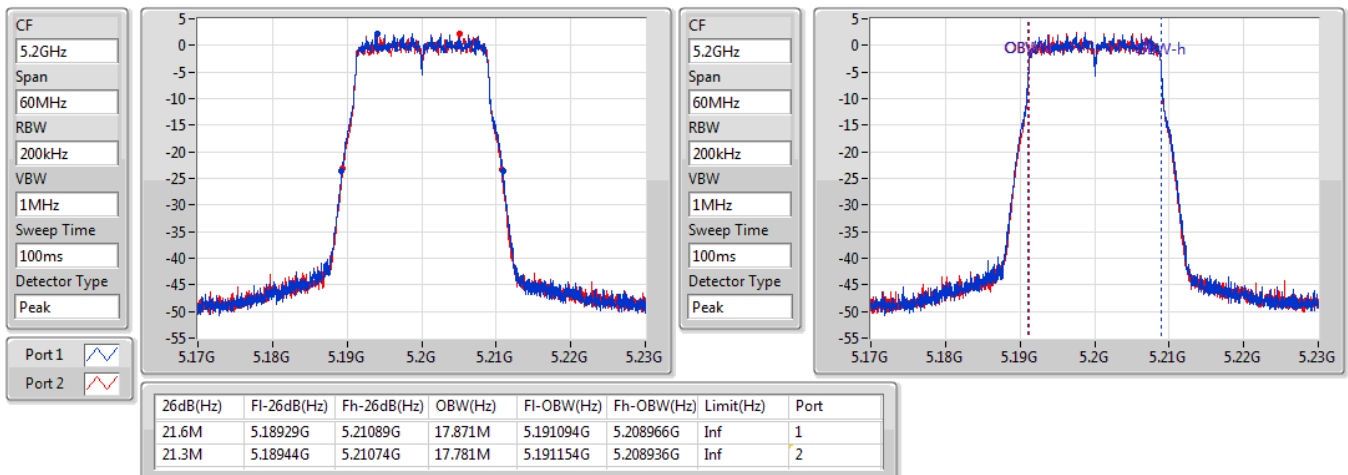


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5200MHz

03/02/2020

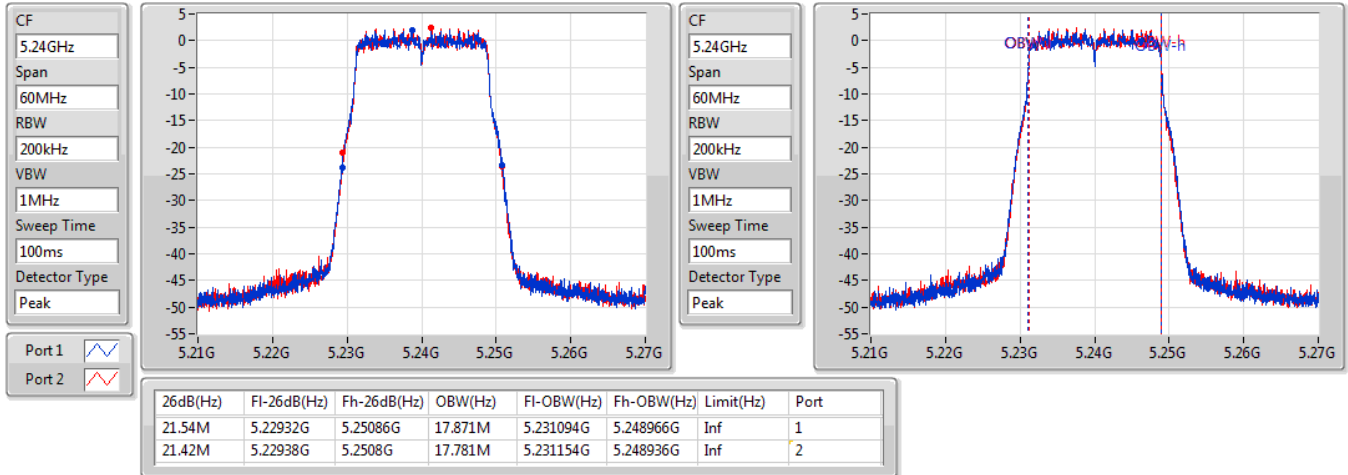


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5240MHz

03/02/2020

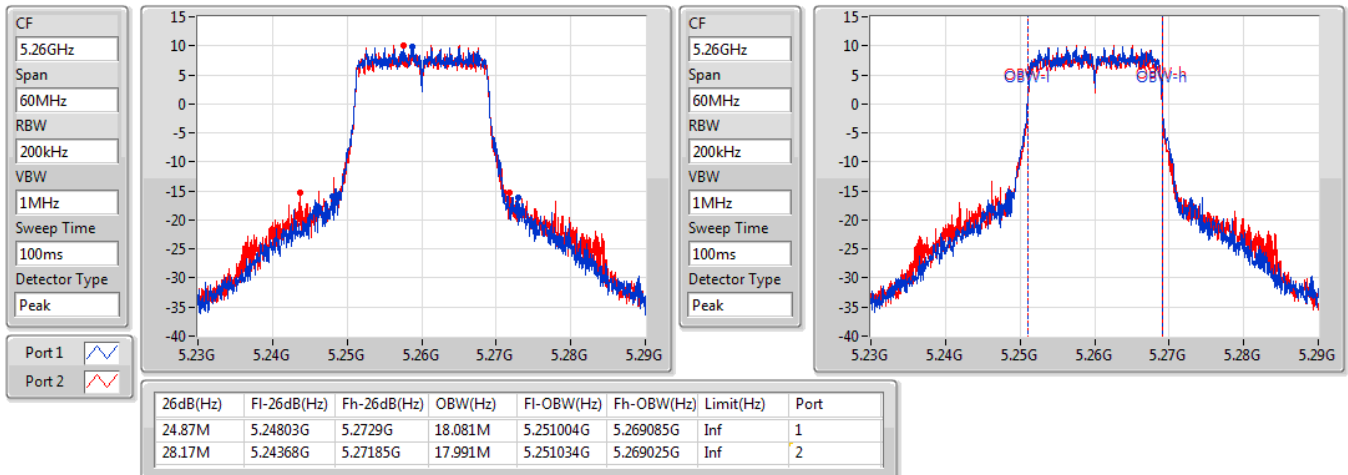


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5260MHz

03/02/2020

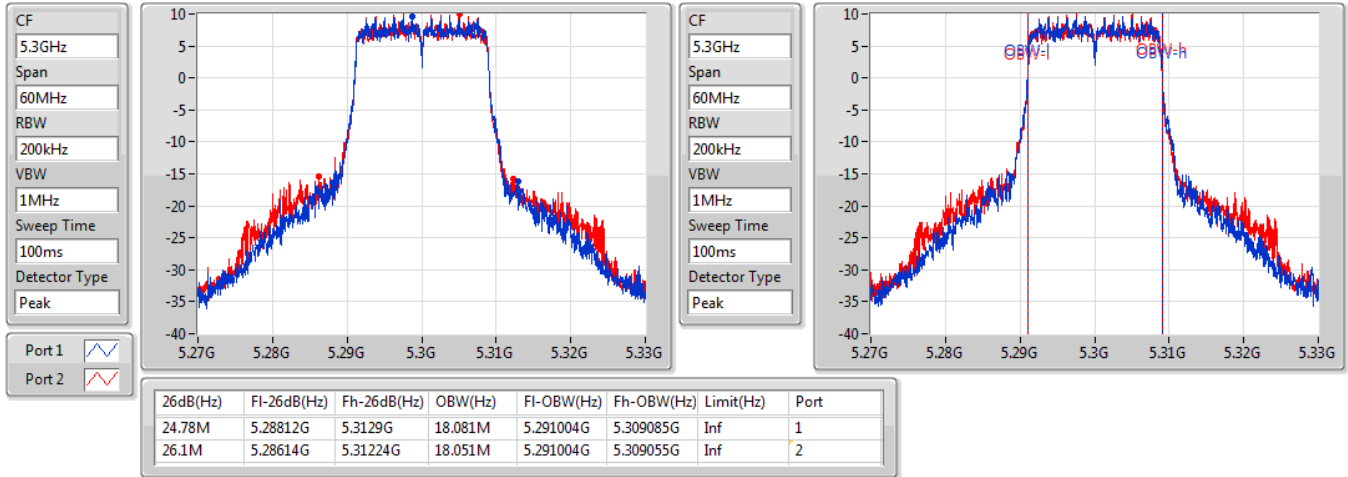


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5300MHz

03/02/2020

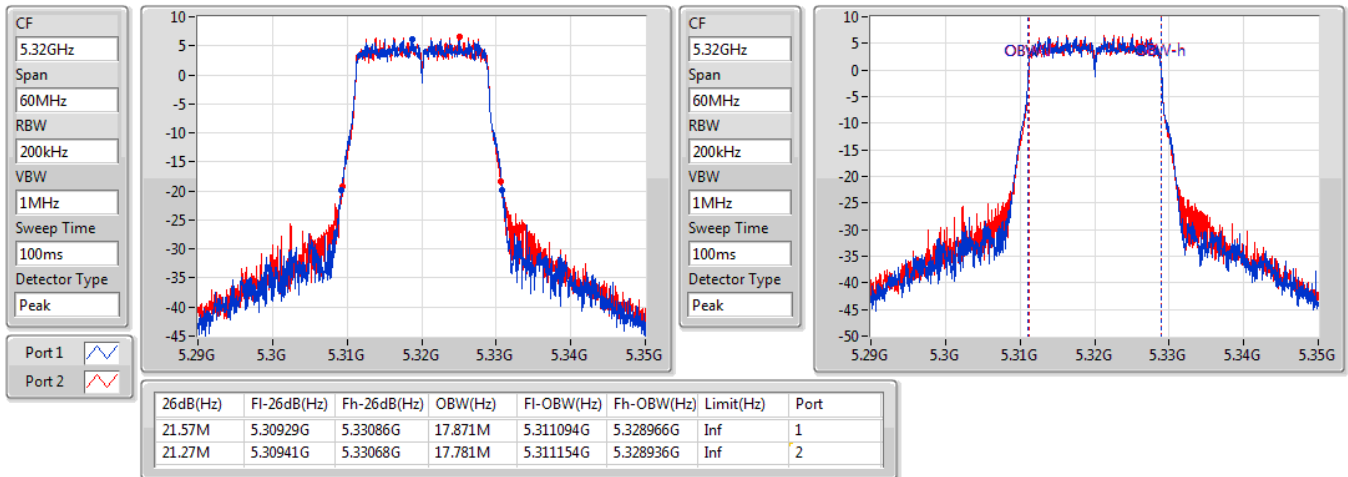


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5320MHz

03/02/2020

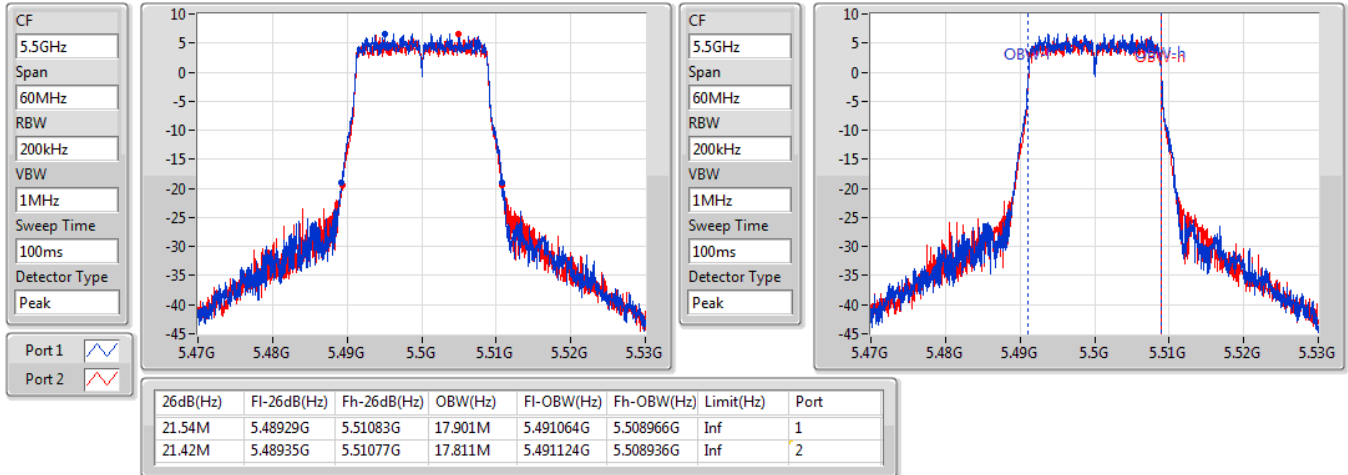


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5500MHz

03/02/2020

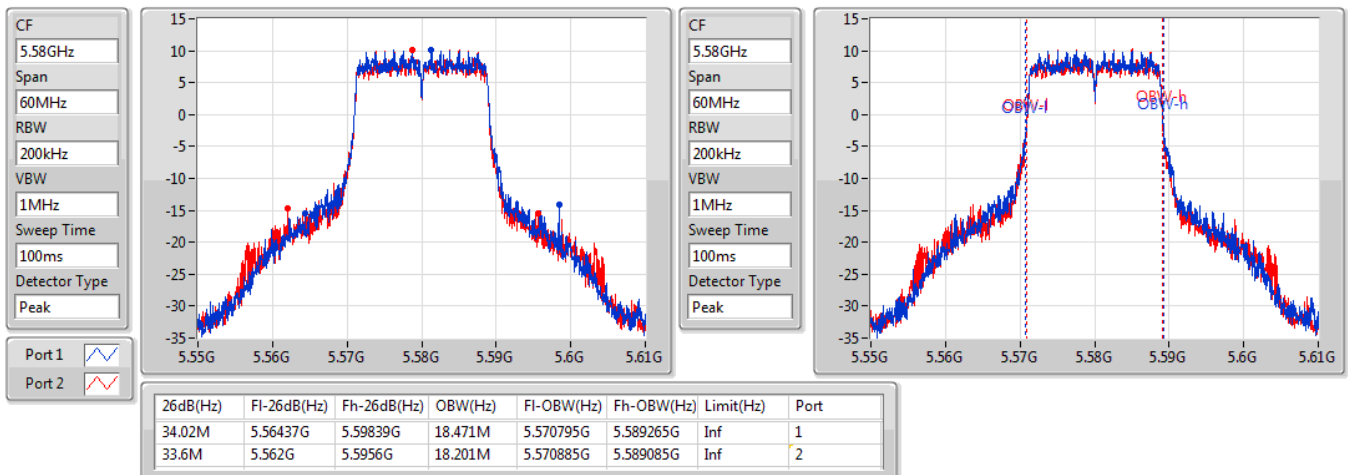


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5580MHz

03/02/2020

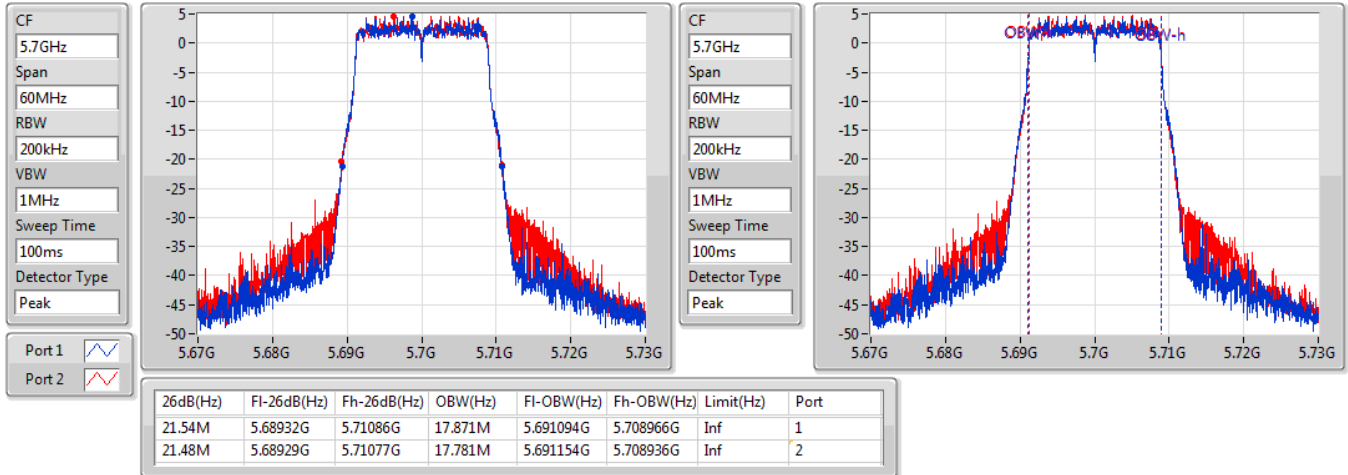


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5700MHz

03/02/2020

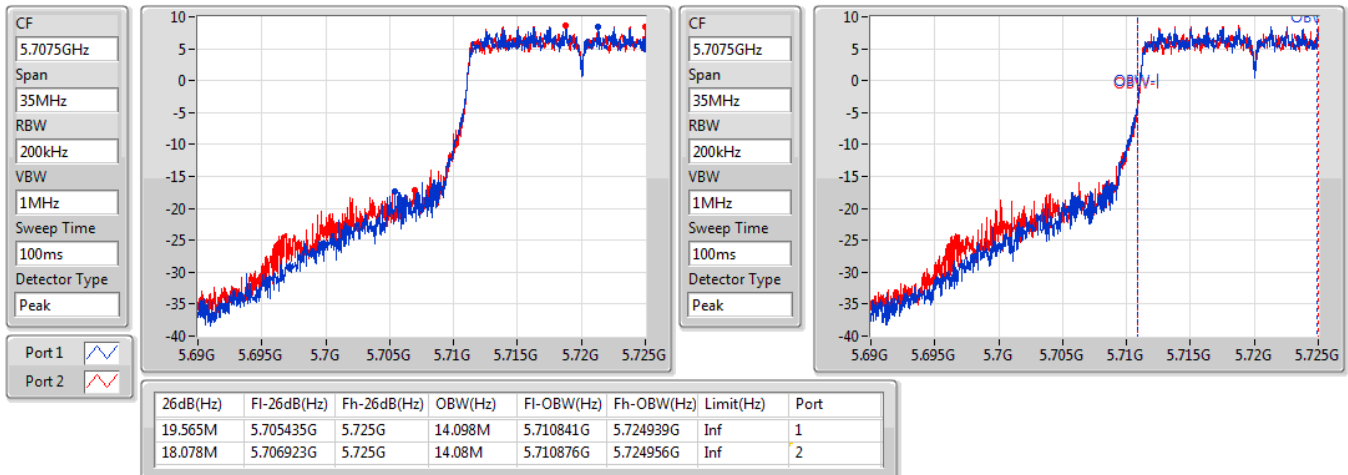


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

03/02/2020

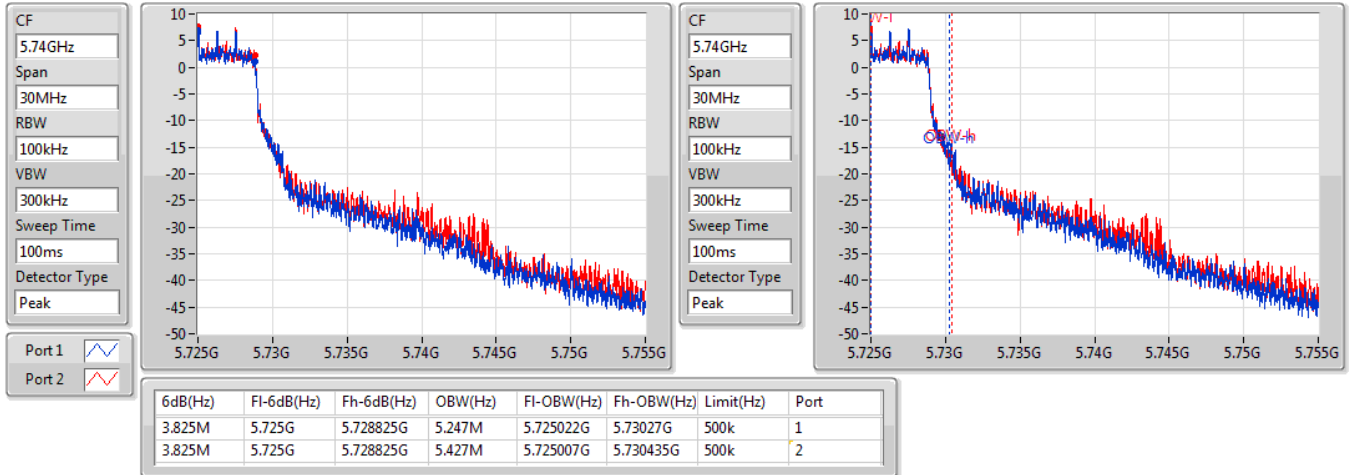


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

03/02/2020

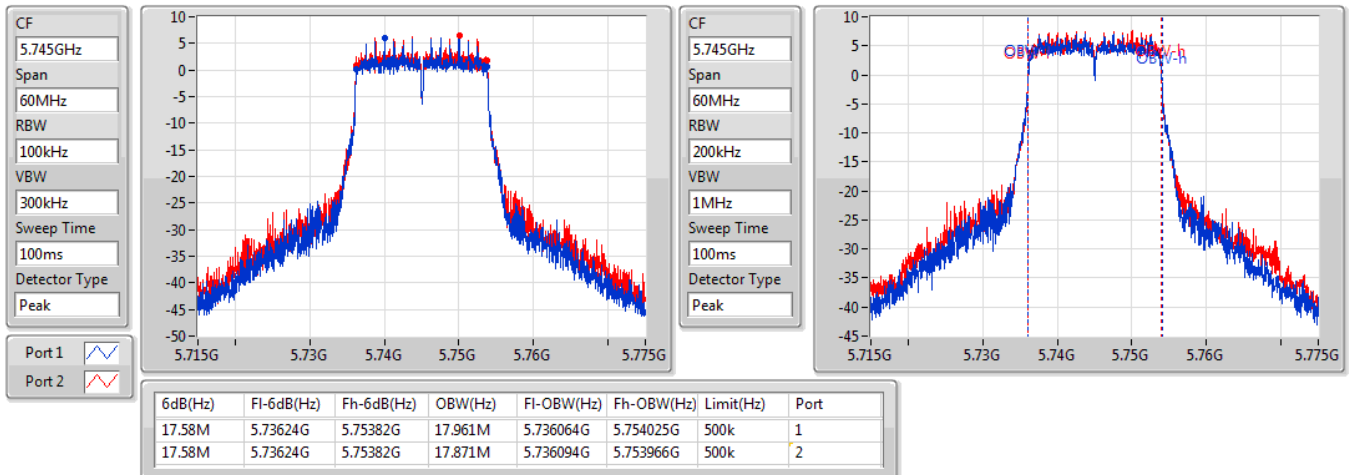


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5745MHz

03/02/2020

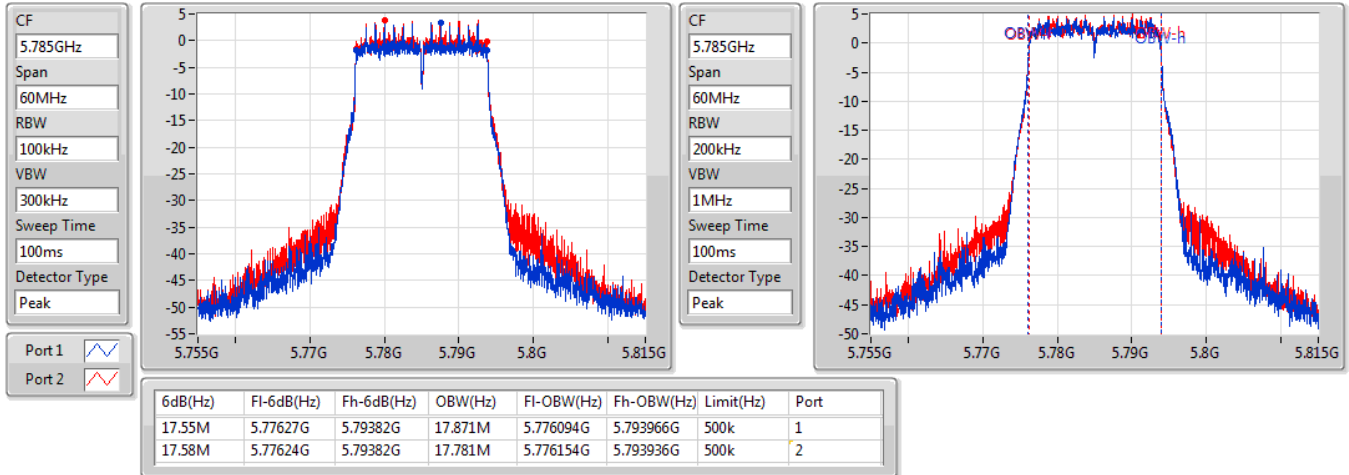


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5785MHz

03/02/2020

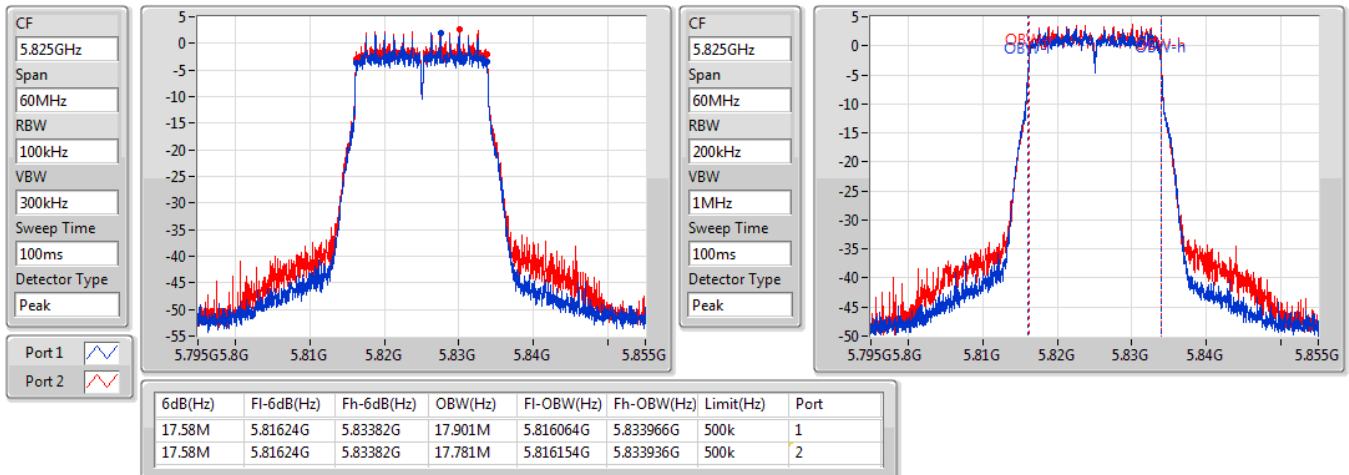


802.11ac VHT20_Nss2,(MCS0)_2TX

EBW

5825MHz

03/02/2020

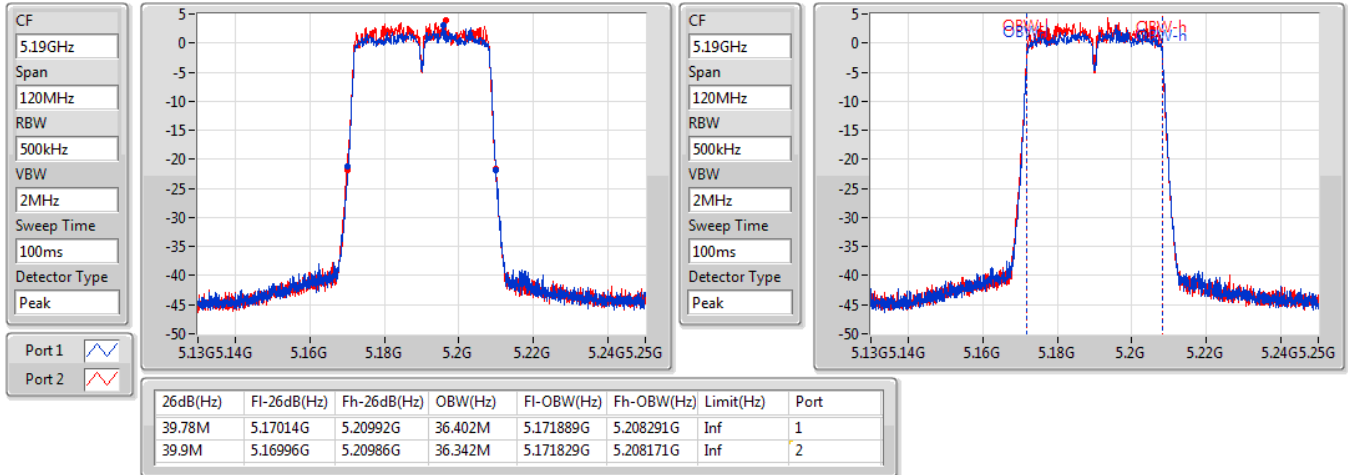


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EBW

5190MHz

03/02/2020

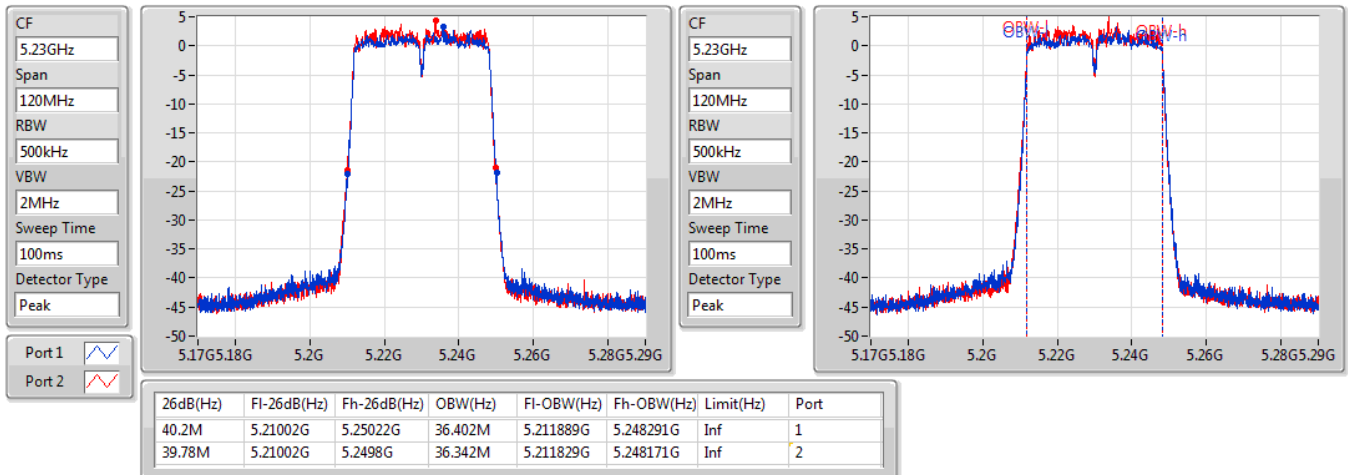


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5230MHz

03/02/2020

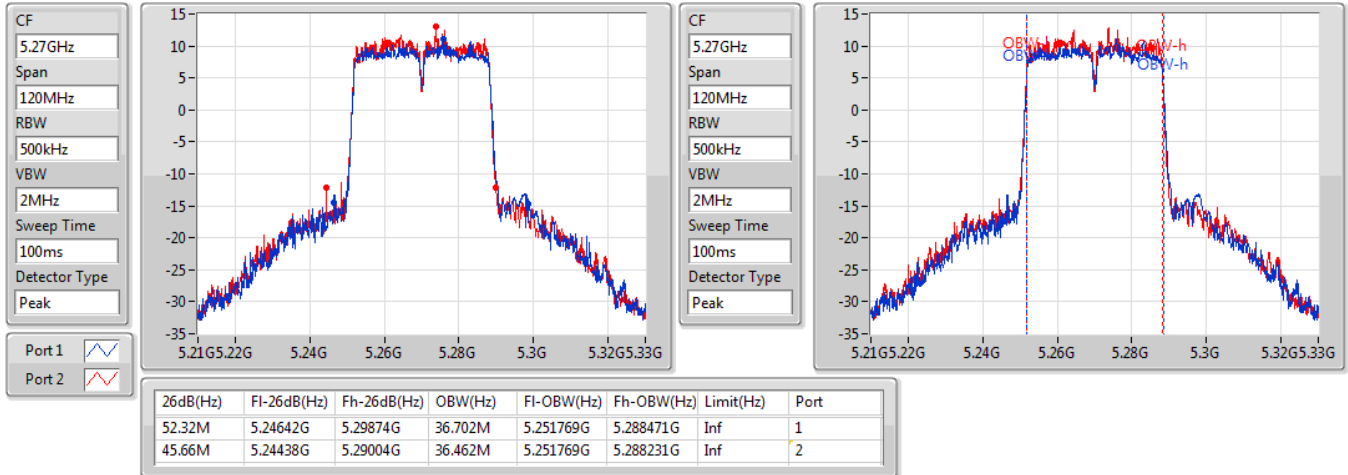


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5270MHz

03/02/2020

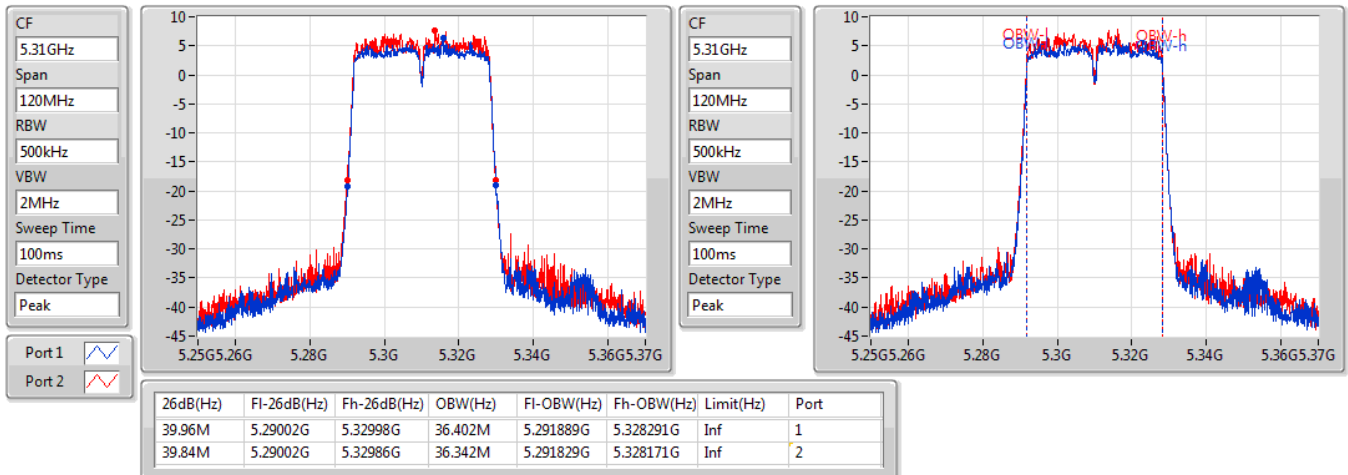


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5310MHz

03/02/2020

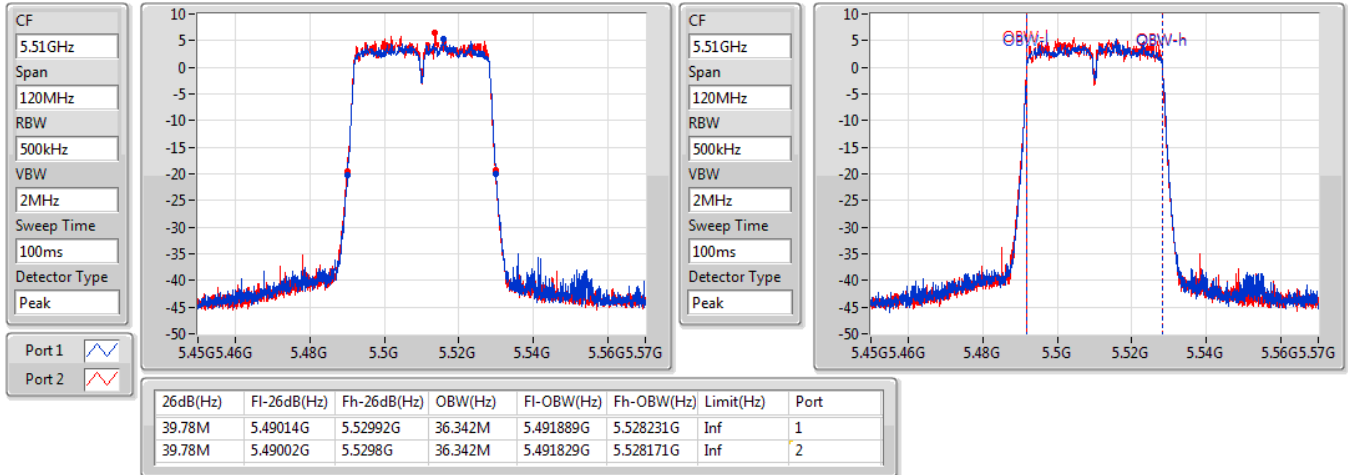


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5510MHz

03/02/2020

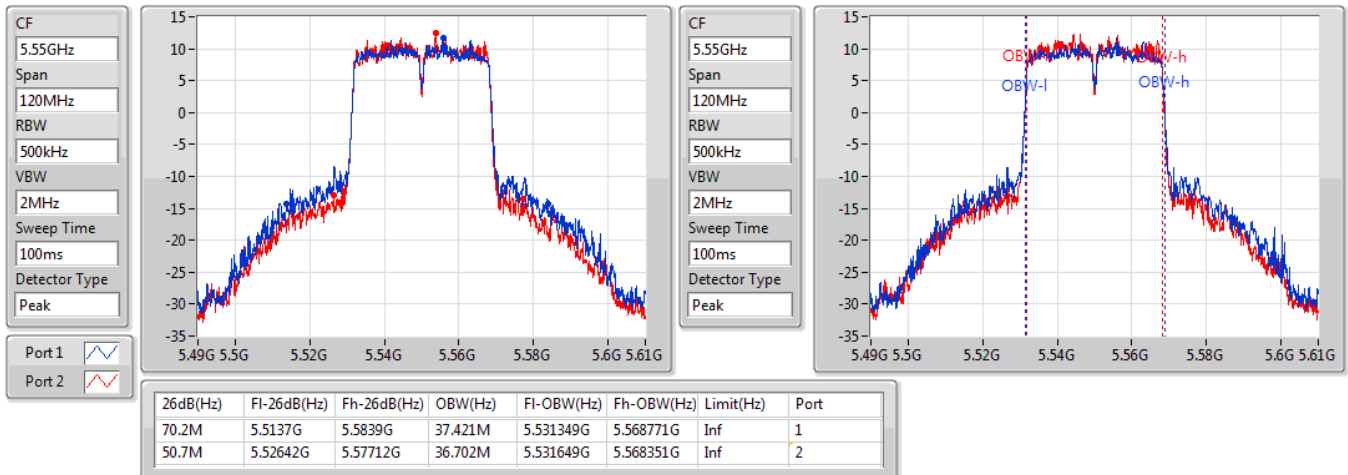


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5550MHz

03/02/2020

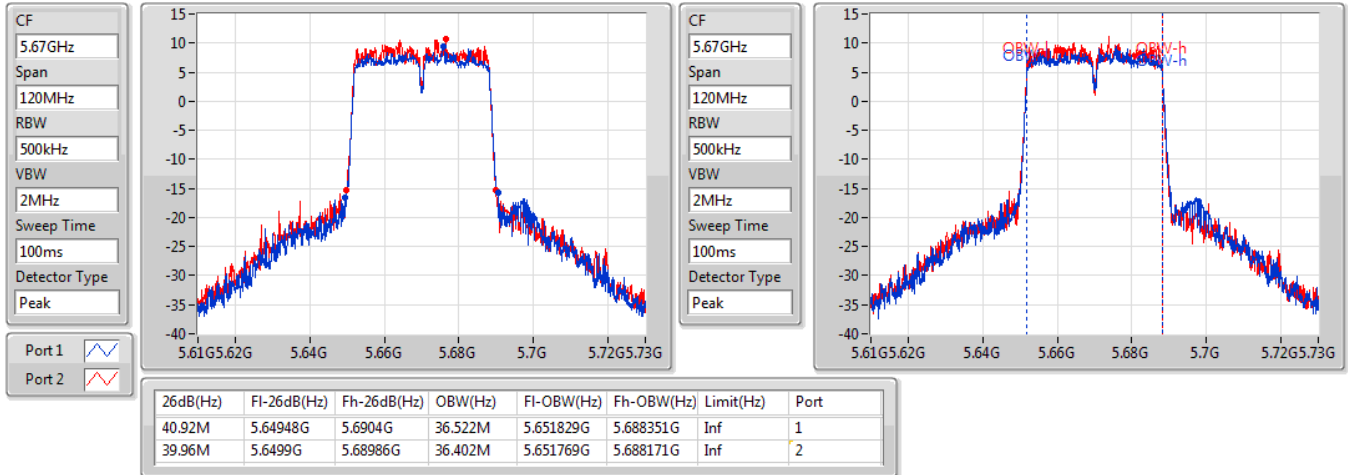


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5670MHz

03/02/2020

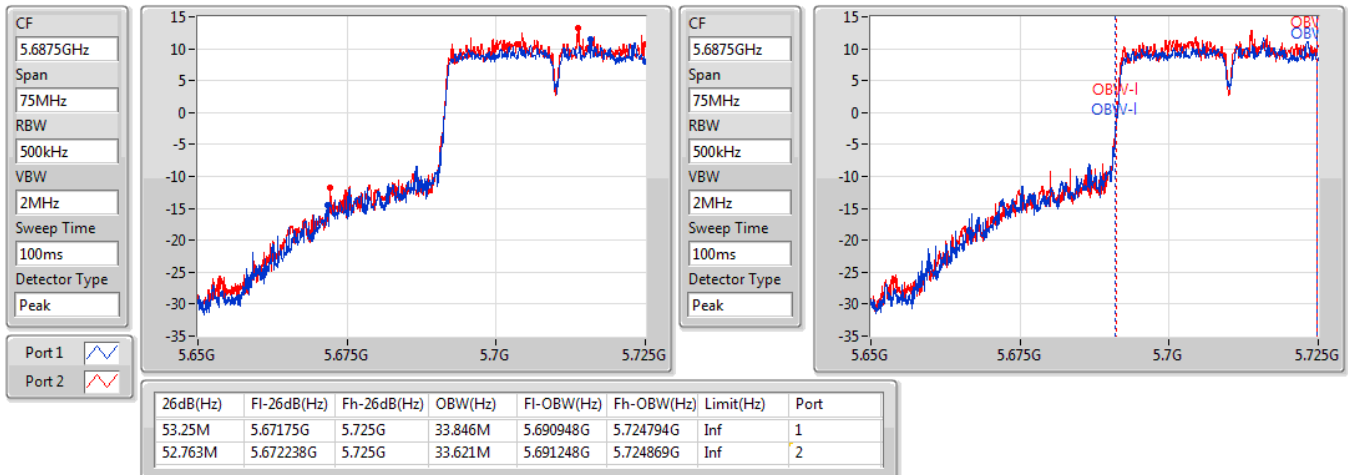


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

03/02/2020

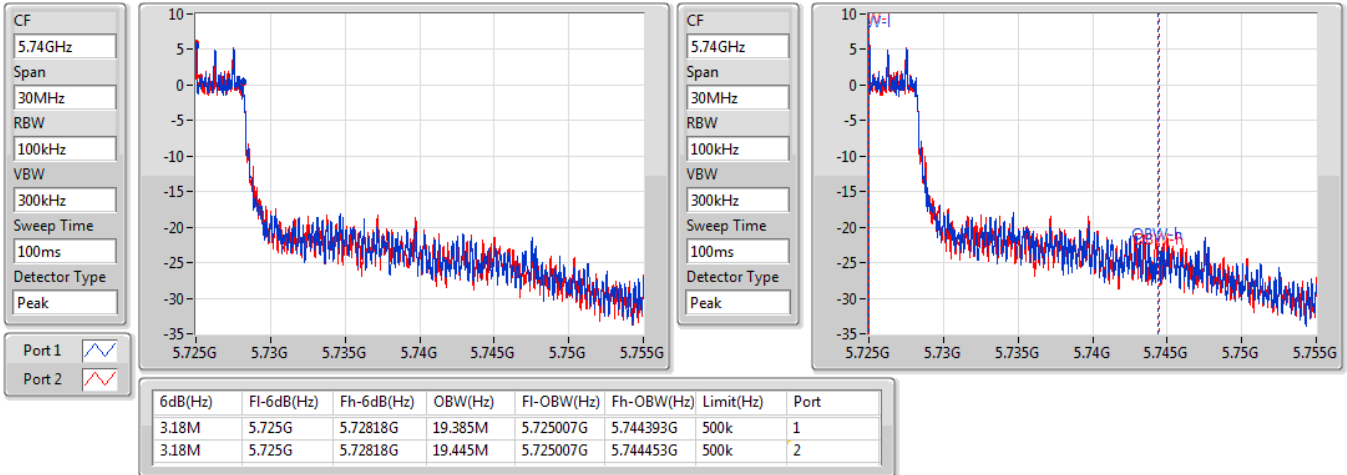


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

03/02/2020

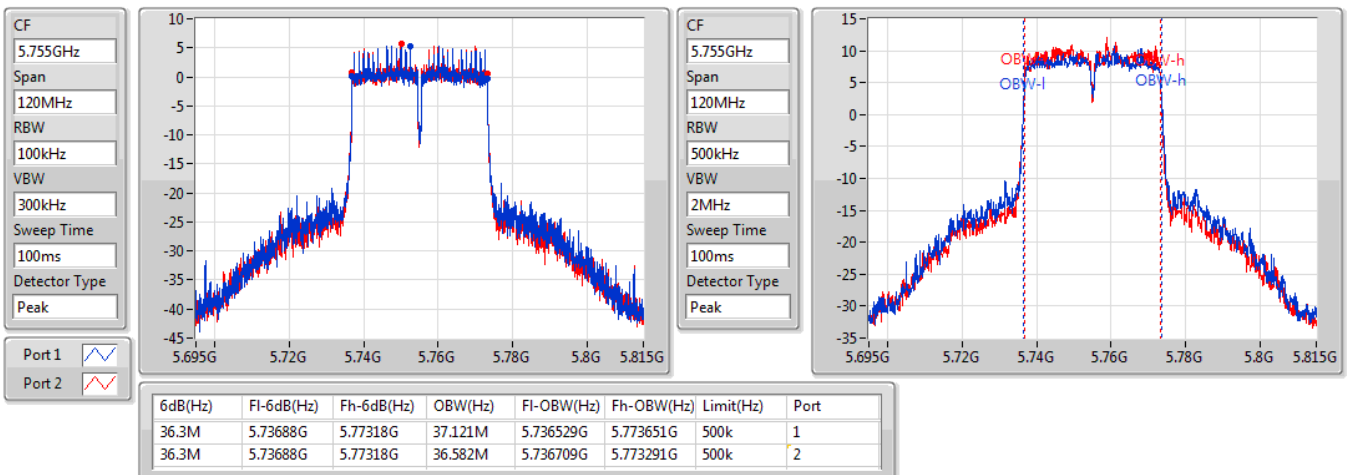


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5755MHz

03/02/2020

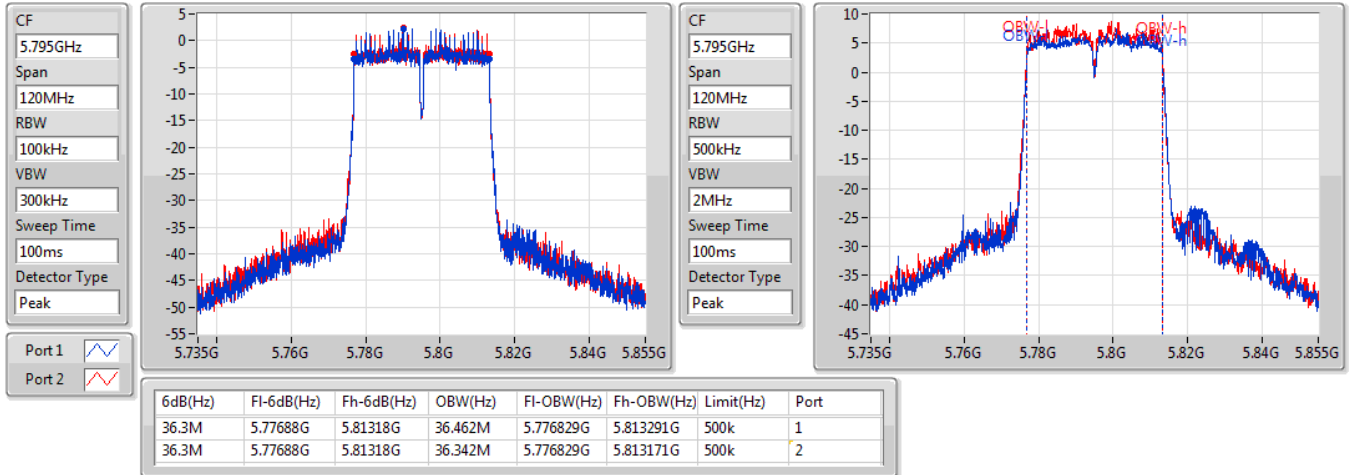


802.11ac VHT40_Nss2,(MCS0)_2TX

EBW

5795MHz

03/02/2020

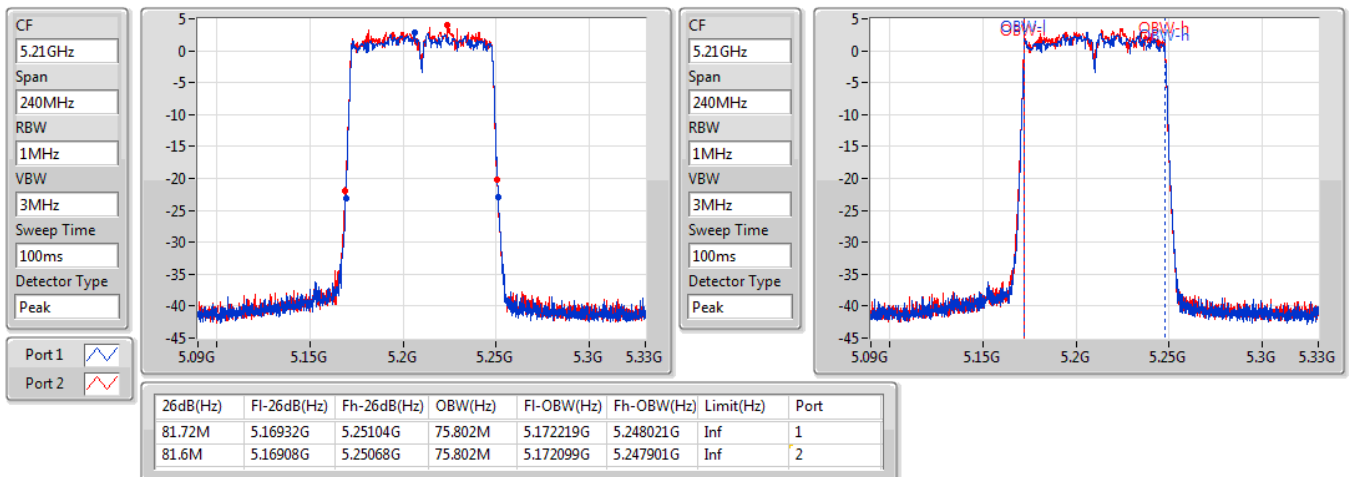


802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5210MHz

03/02/2020

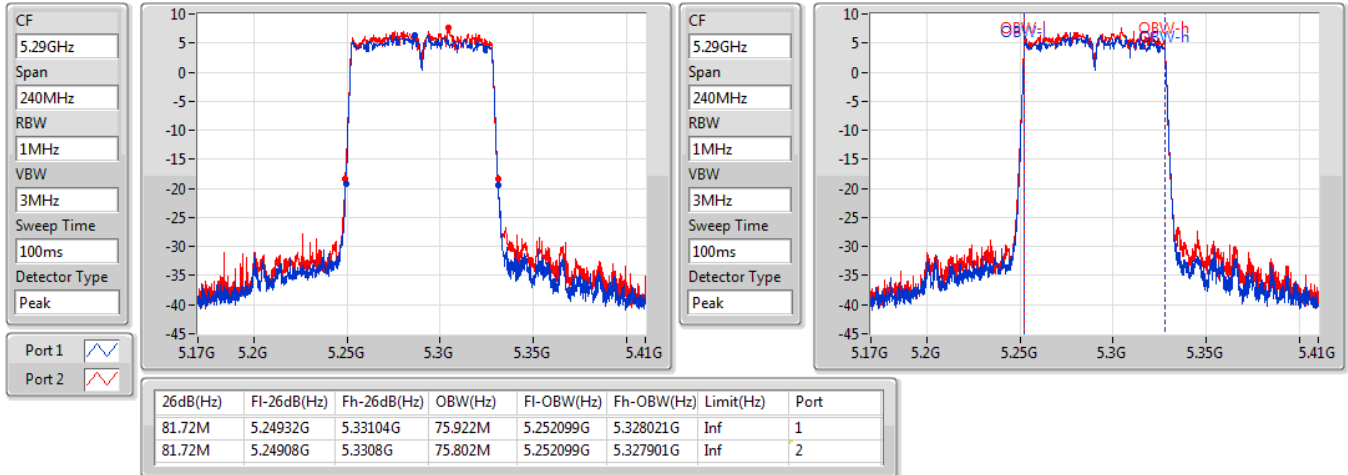


802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5290MHz

03/02/2020

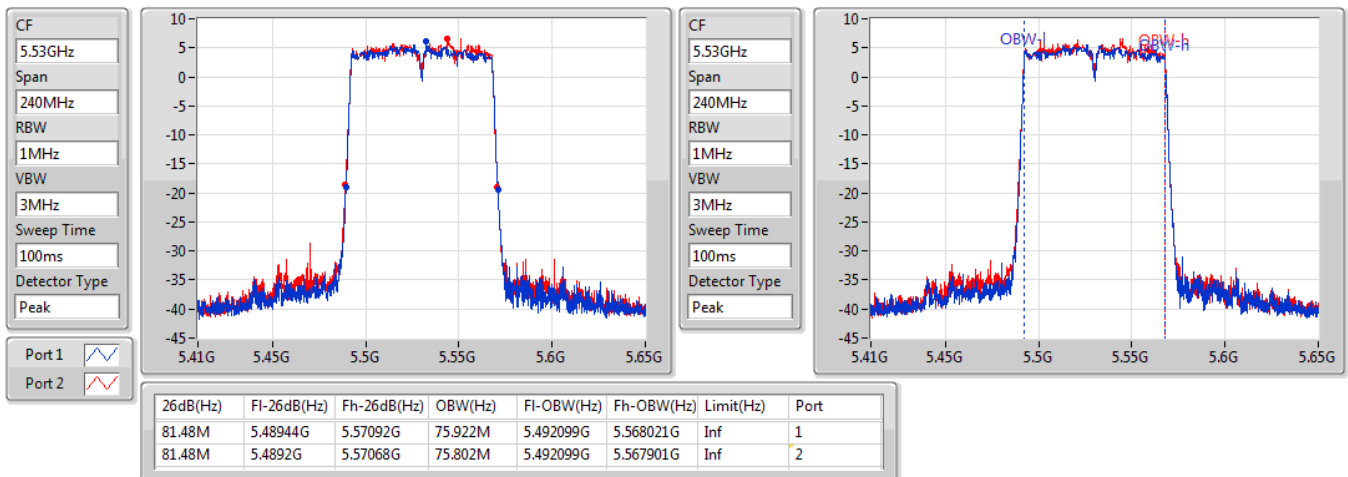


802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5530MHz

03/02/2020

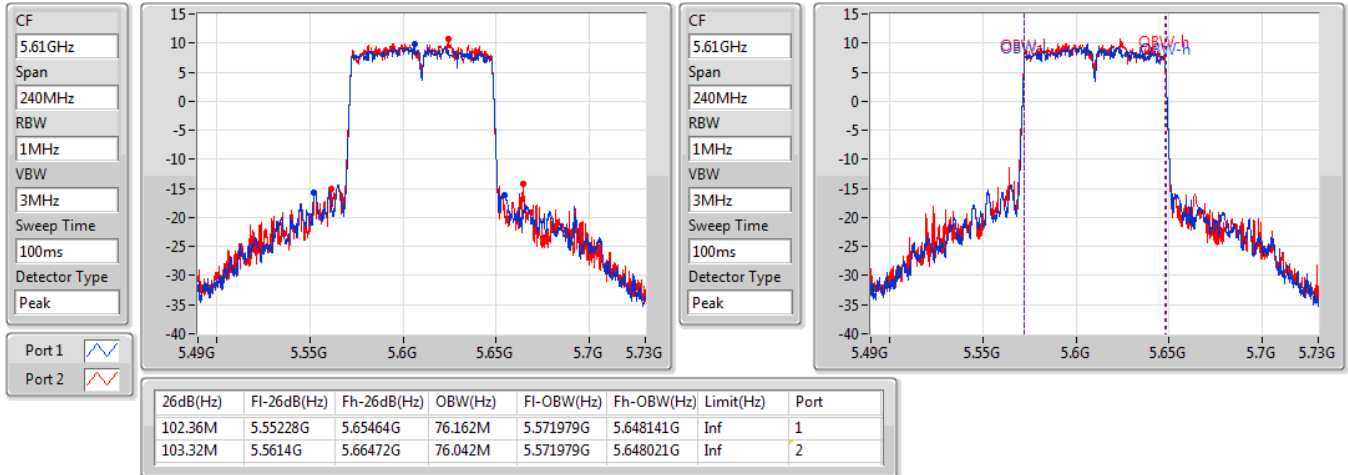


802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5610MHz

03/02/2020

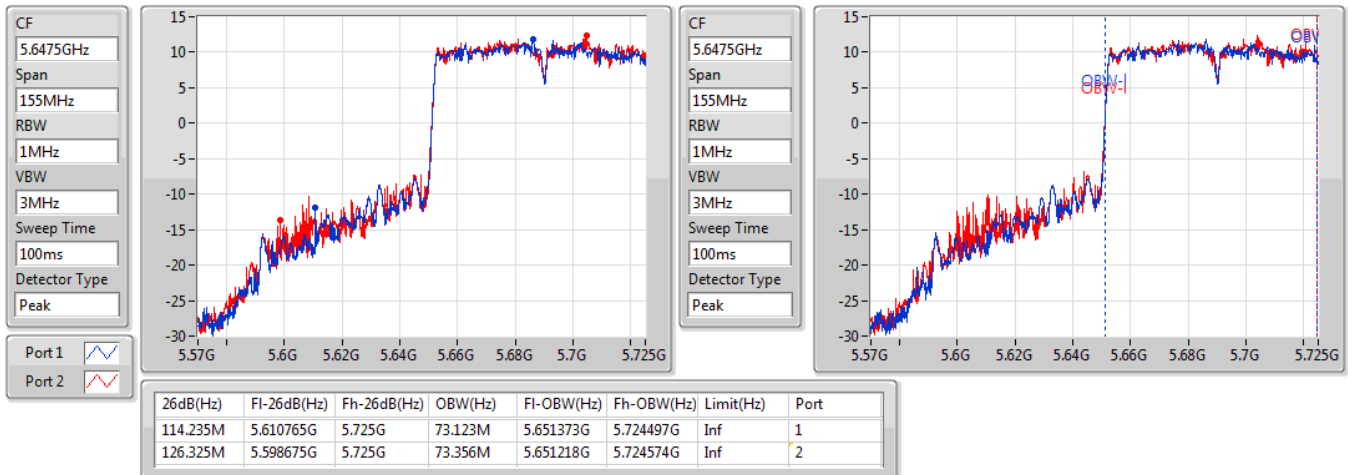


802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

03/02/2020

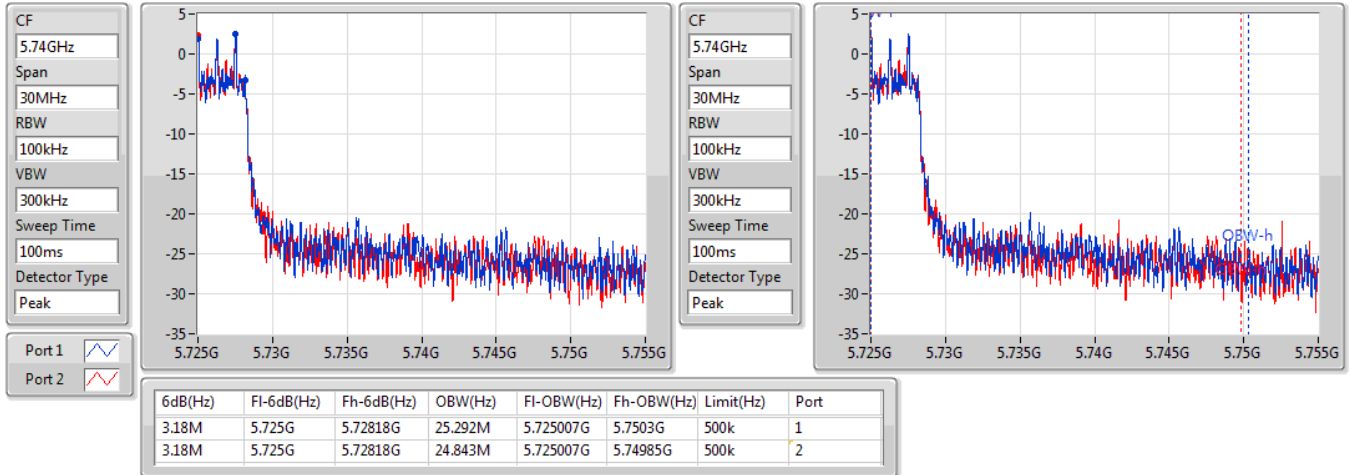


802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

03/02/2020

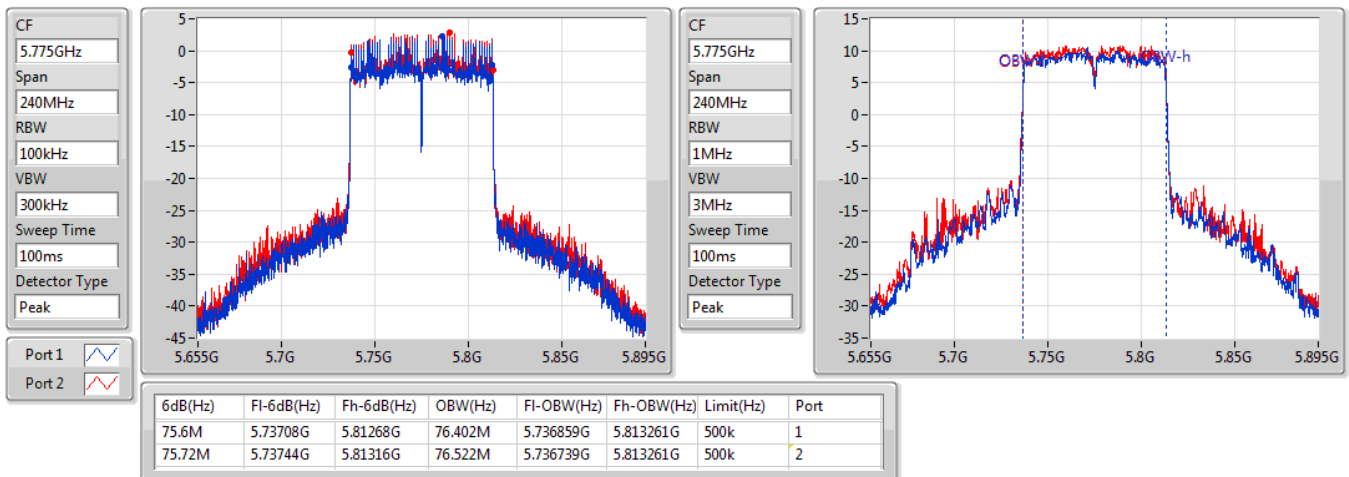


802.11ac VHT80_Nss2,(MCS0)_2TX

EBW

5775MHz

03/02/2020

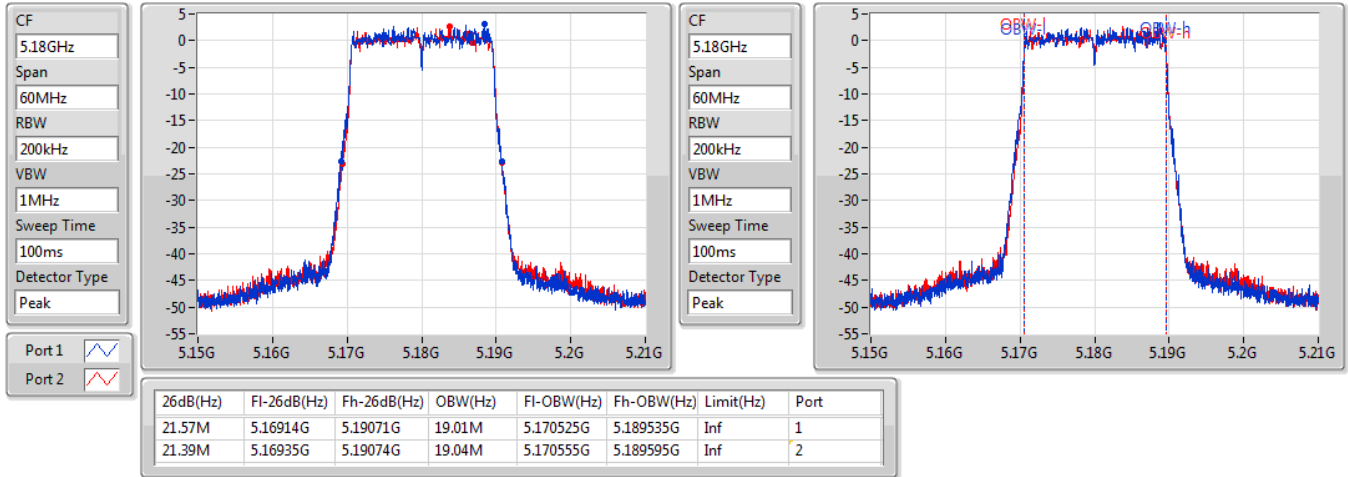


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

03/02/2020

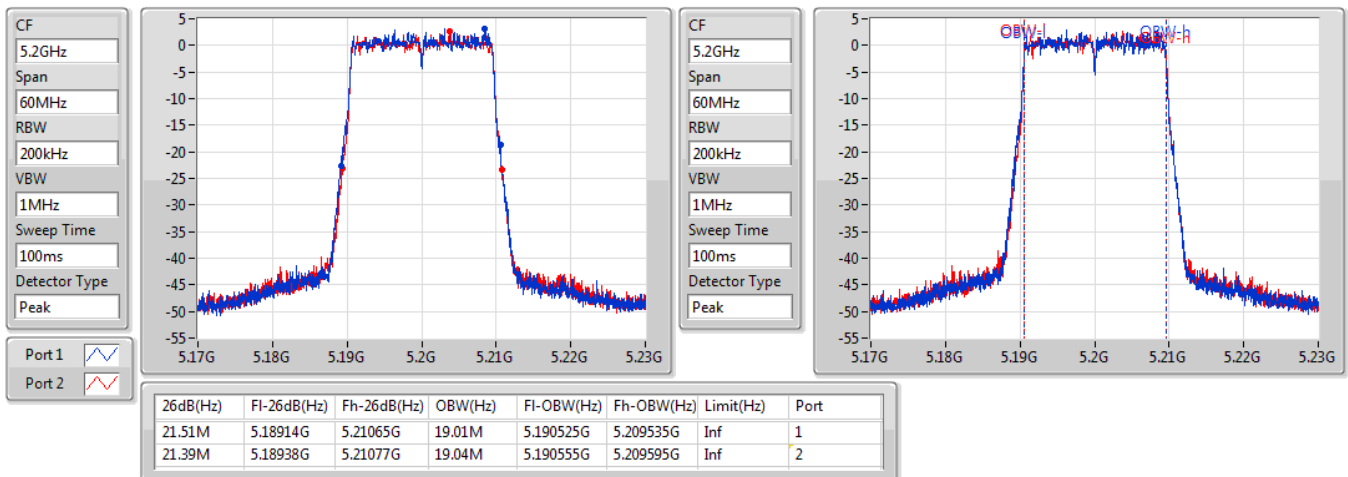


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5200MHz

03/02/2020

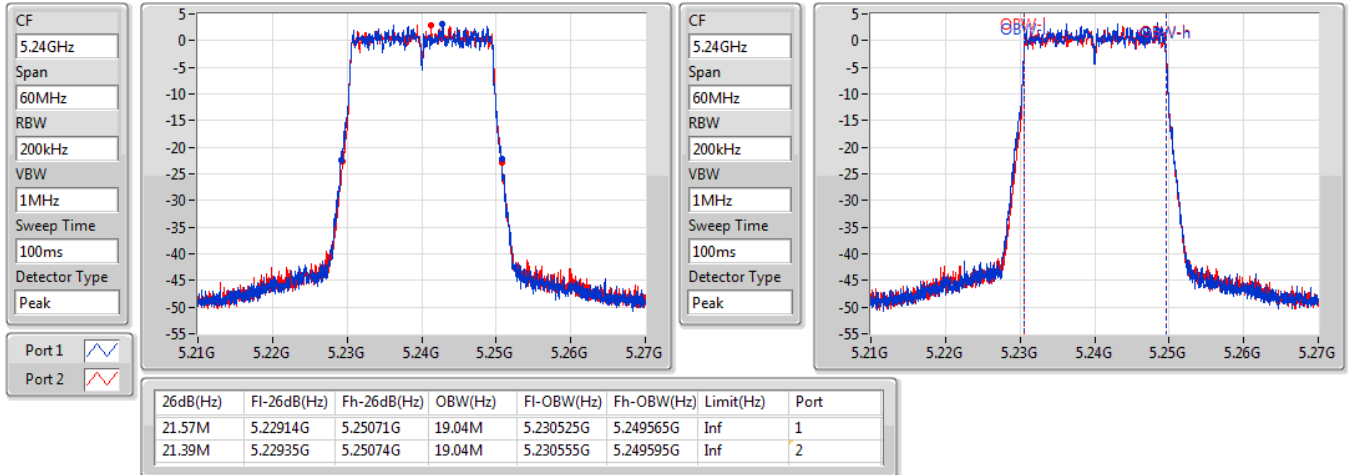


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5240MHz

03/02/2020

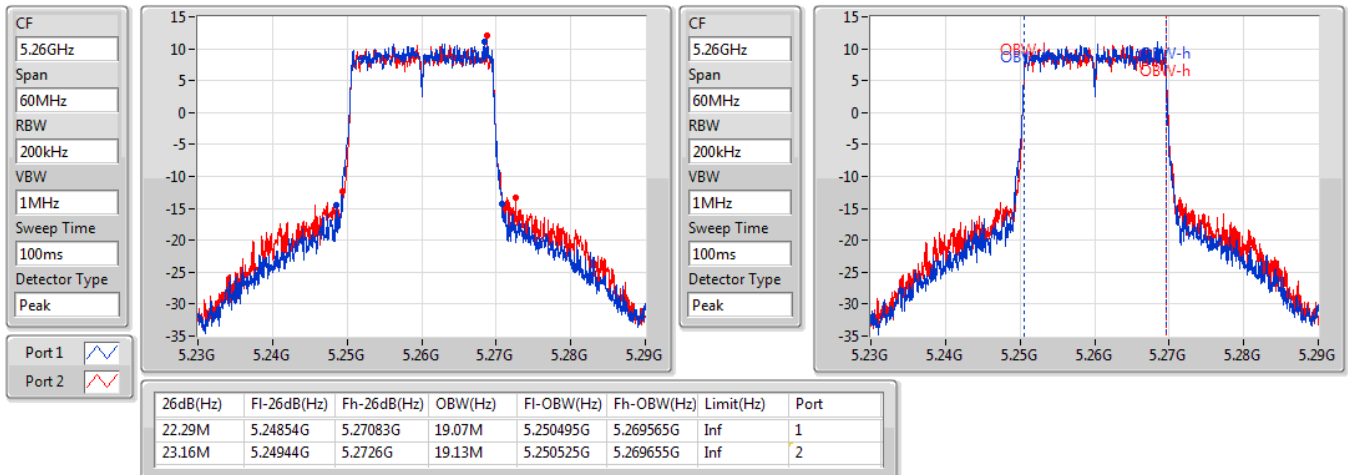


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5260MHz

03/02/2020

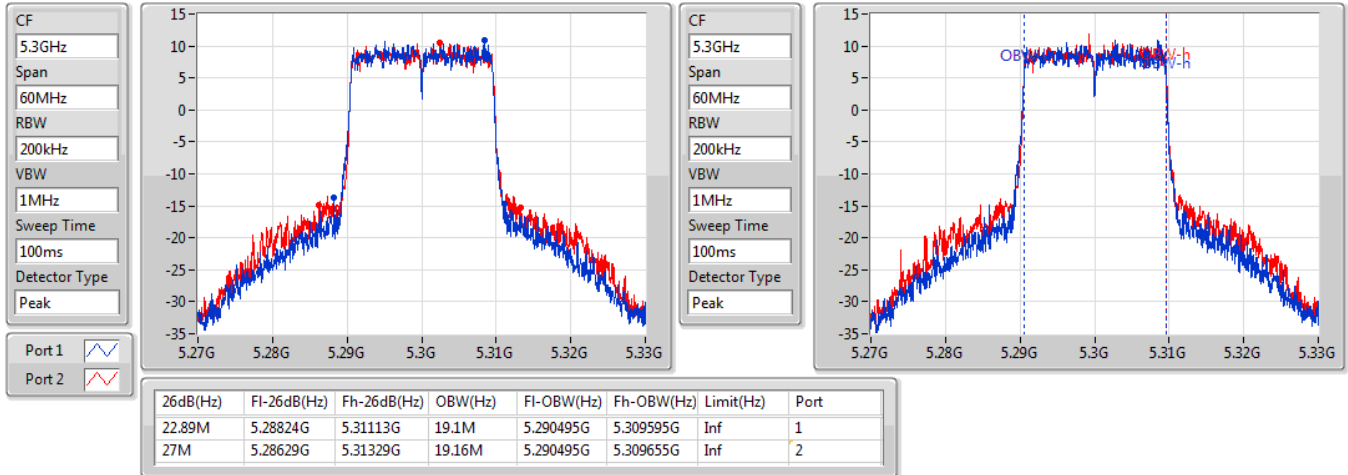


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5300MHz

03/02/2020

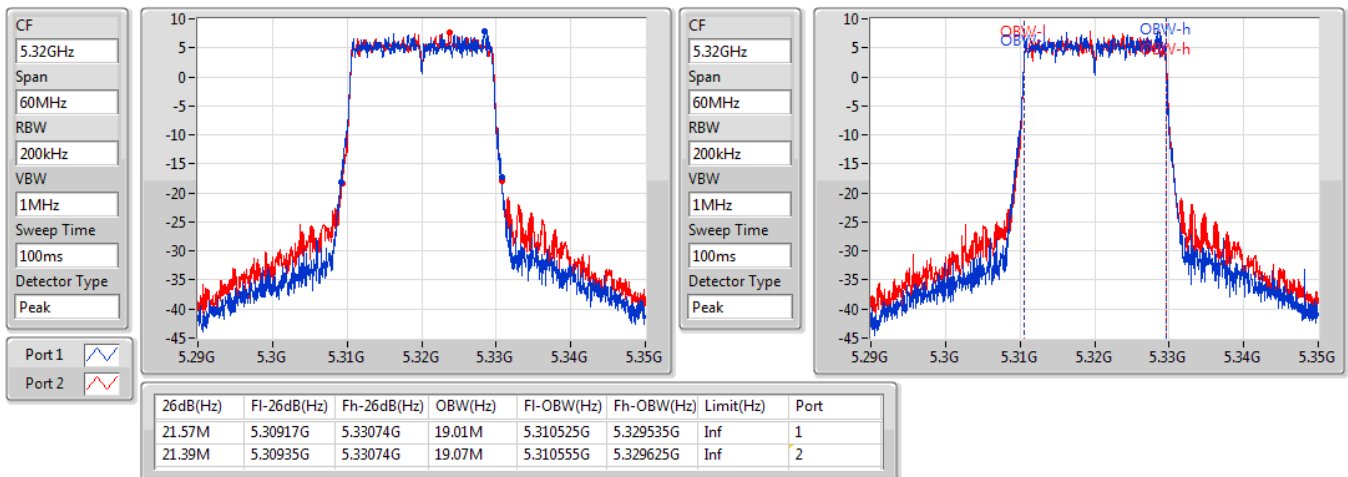


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5320MHz

03/02/2020

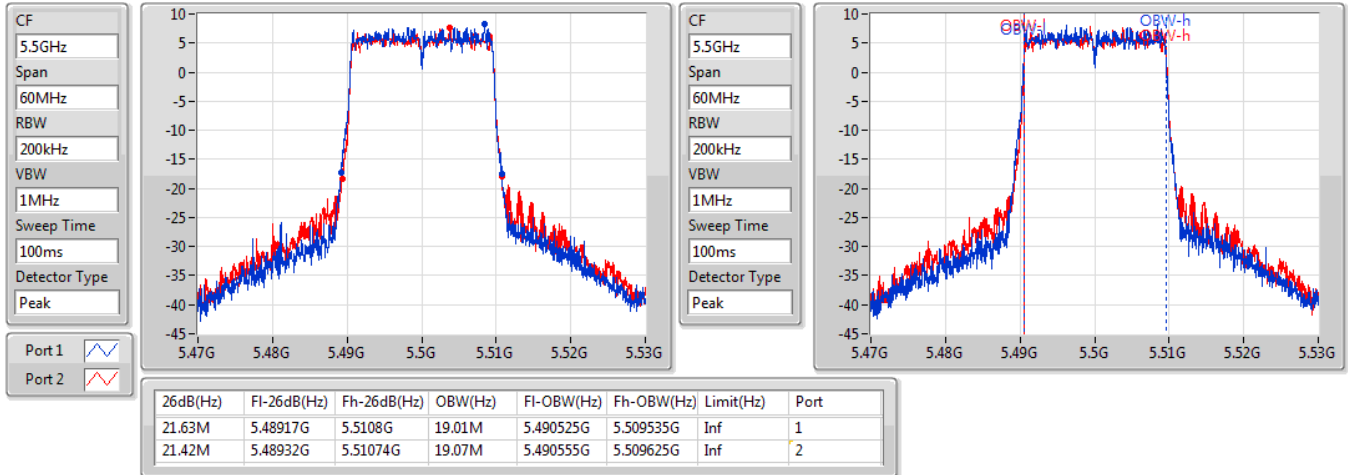


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5500MHz

03/02/2020

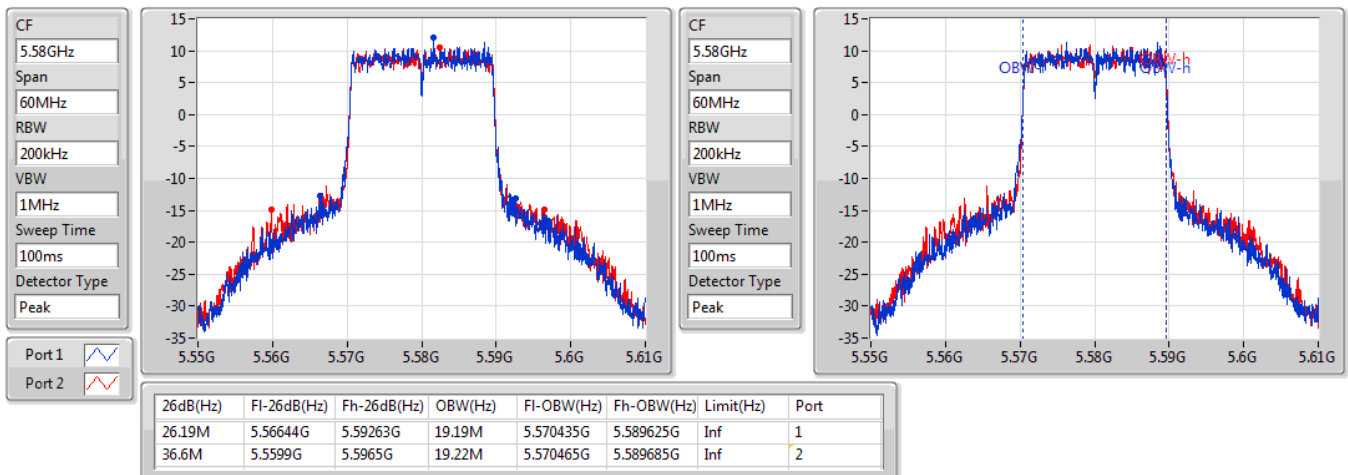


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5580MHz

03/02/2020

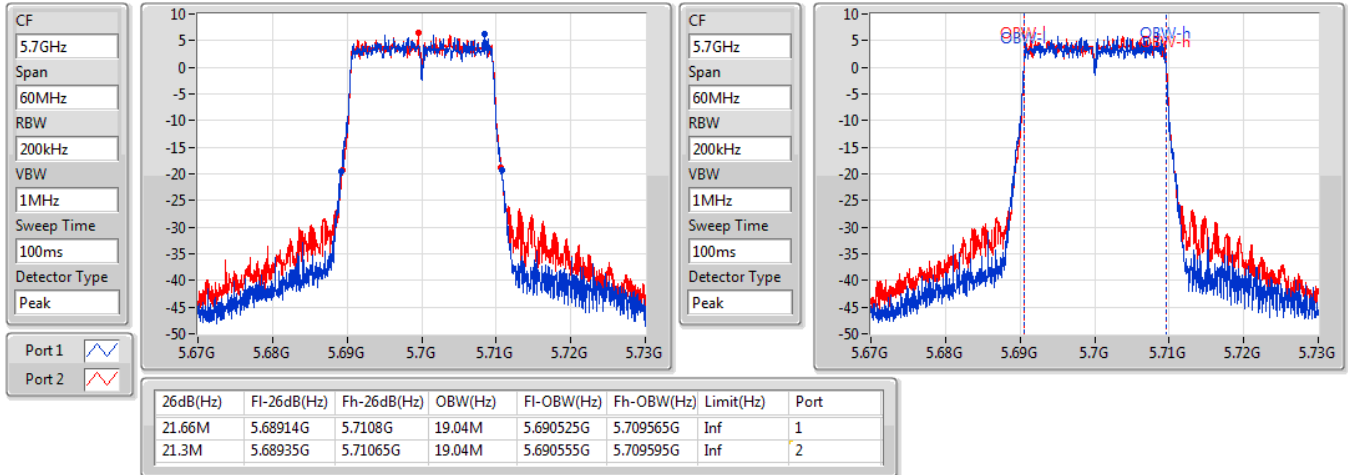


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5700MHz

03/02/2020

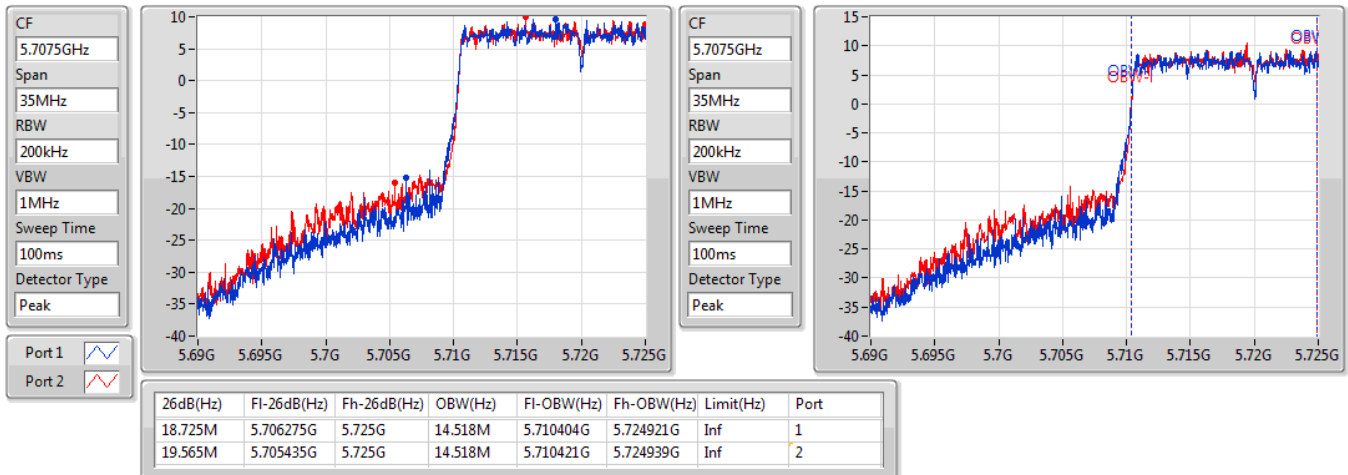


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

03/02/2020

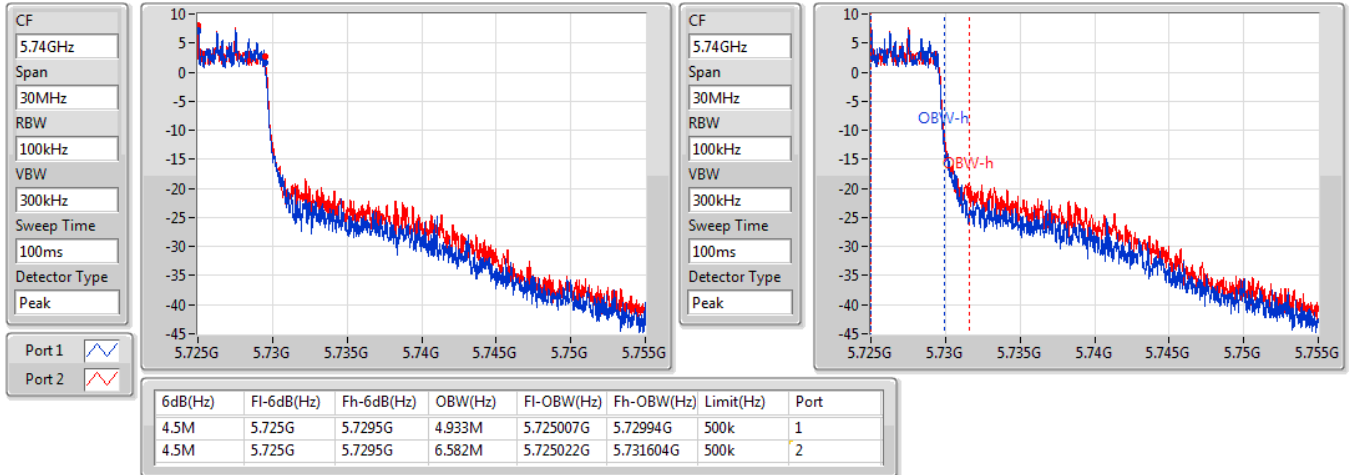


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

03/02/2020

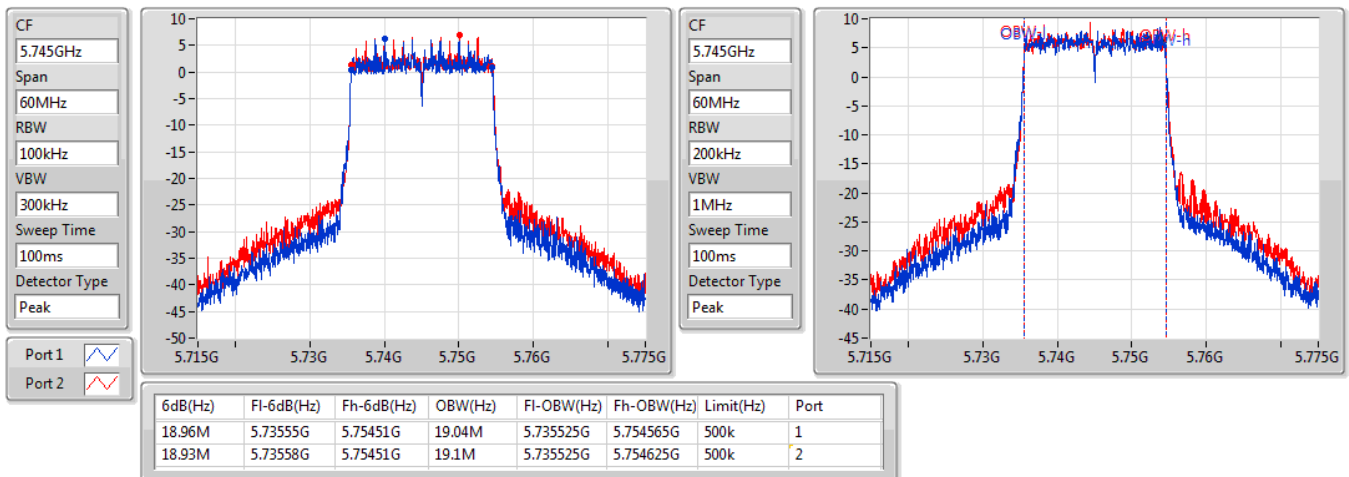


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5745MHz

03/02/2020

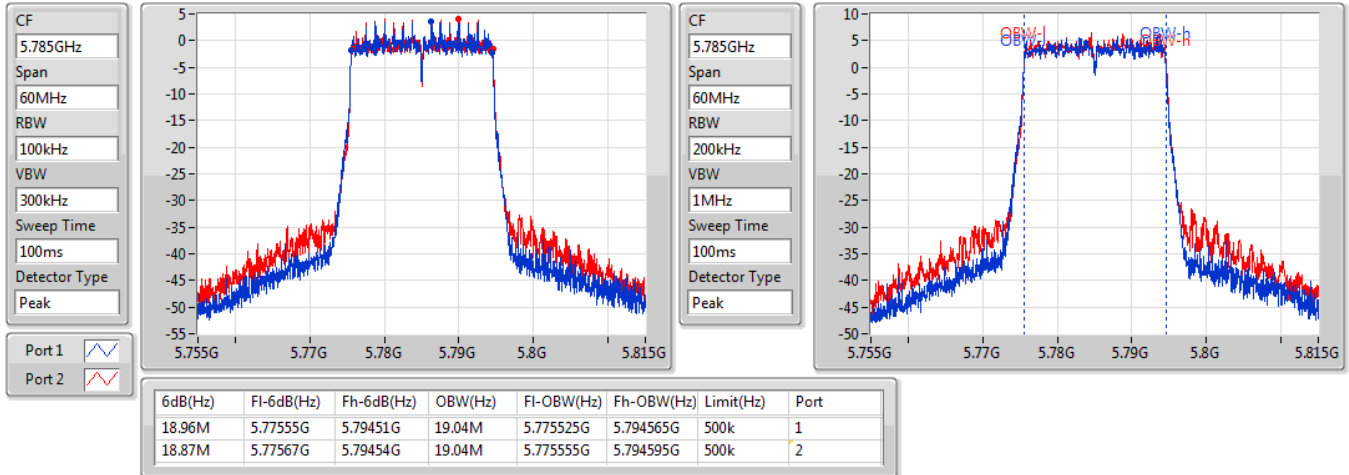


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5785MHz

03/02/2020

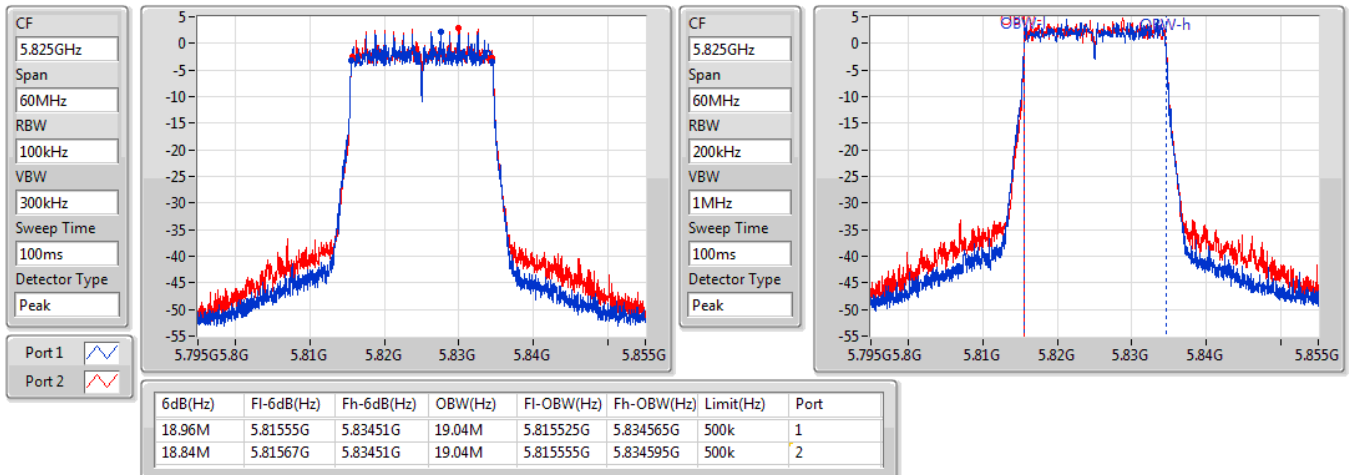


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5825MHz

03/02/2020

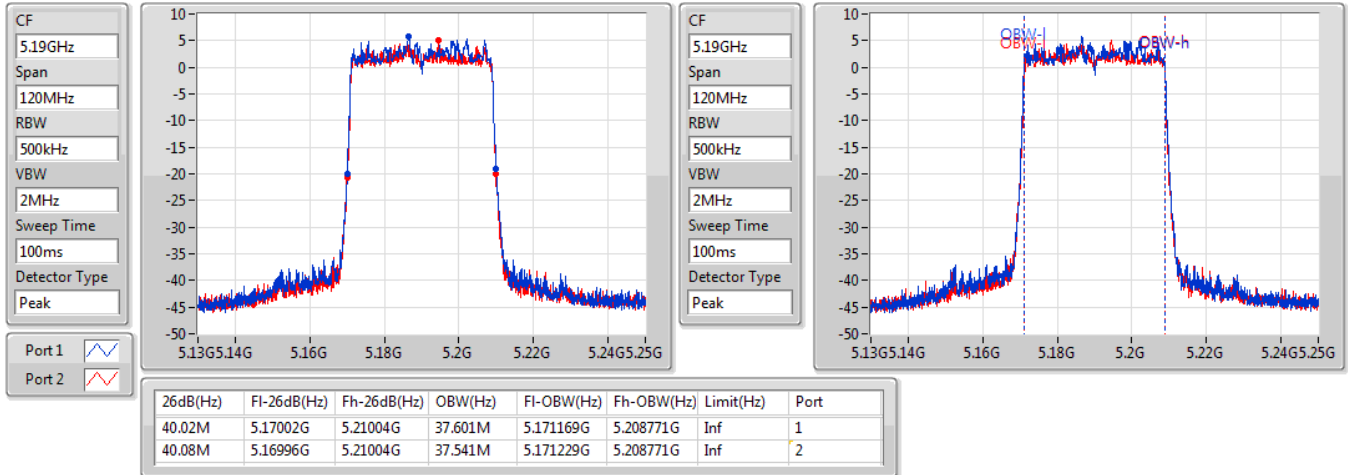


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

03/02/2020

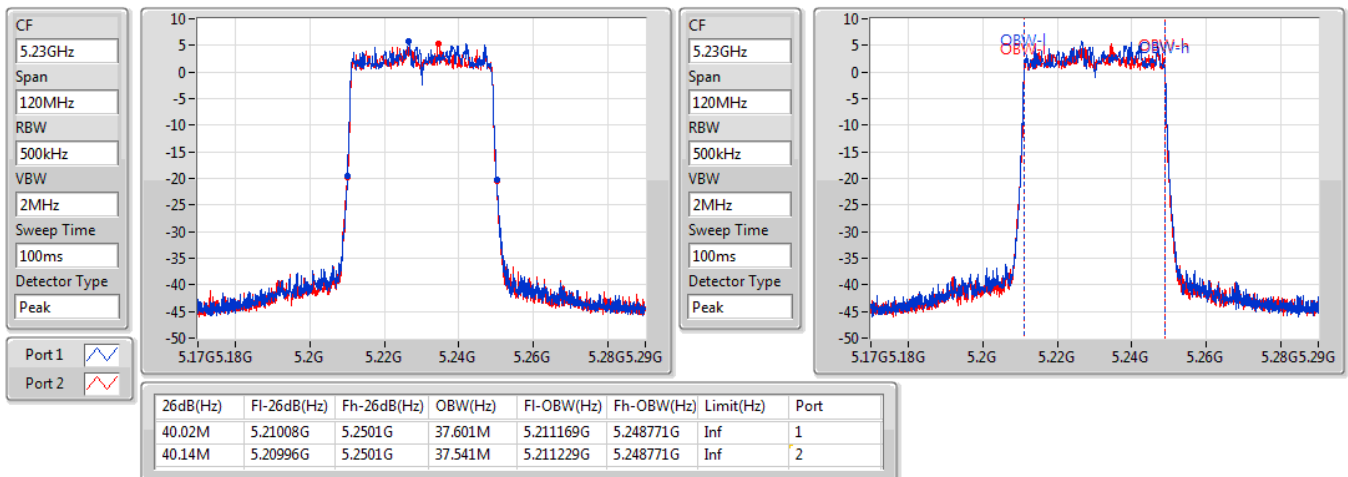


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5230MHz

03/02/2020

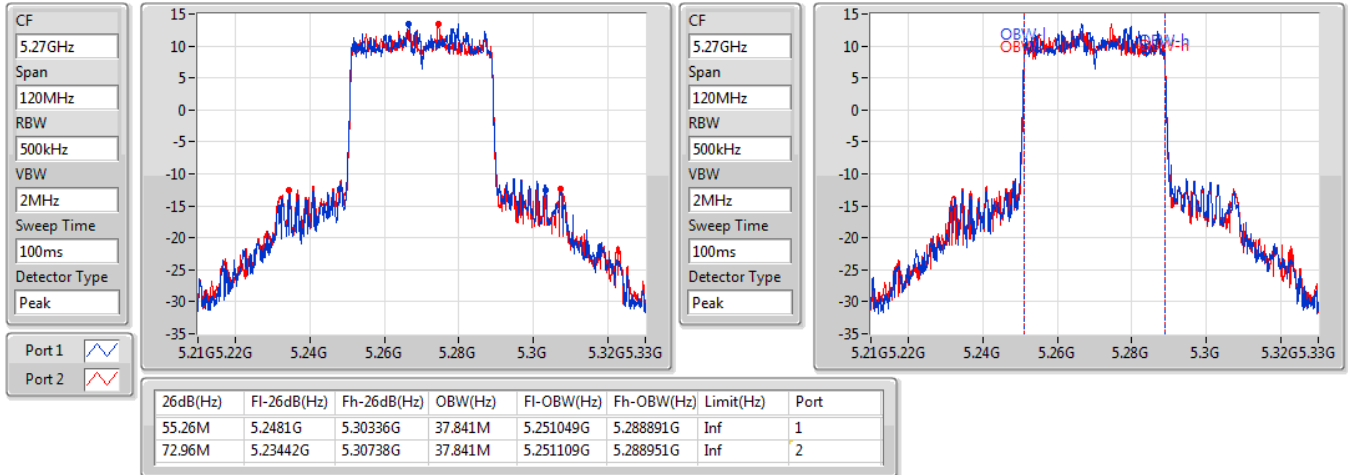


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5270MHz

03/02/2020

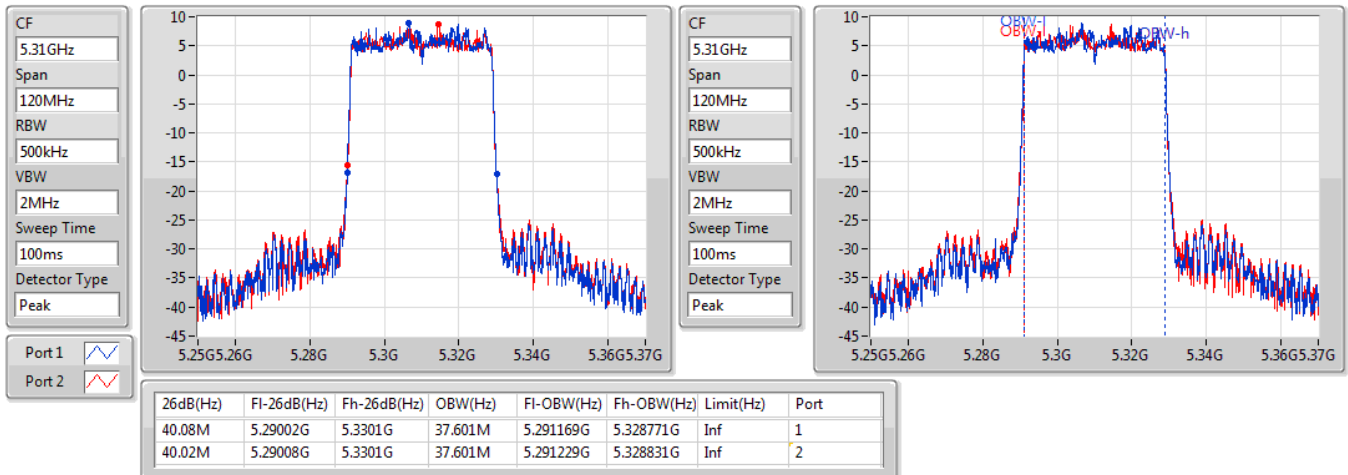


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5310MHz

03/02/2020

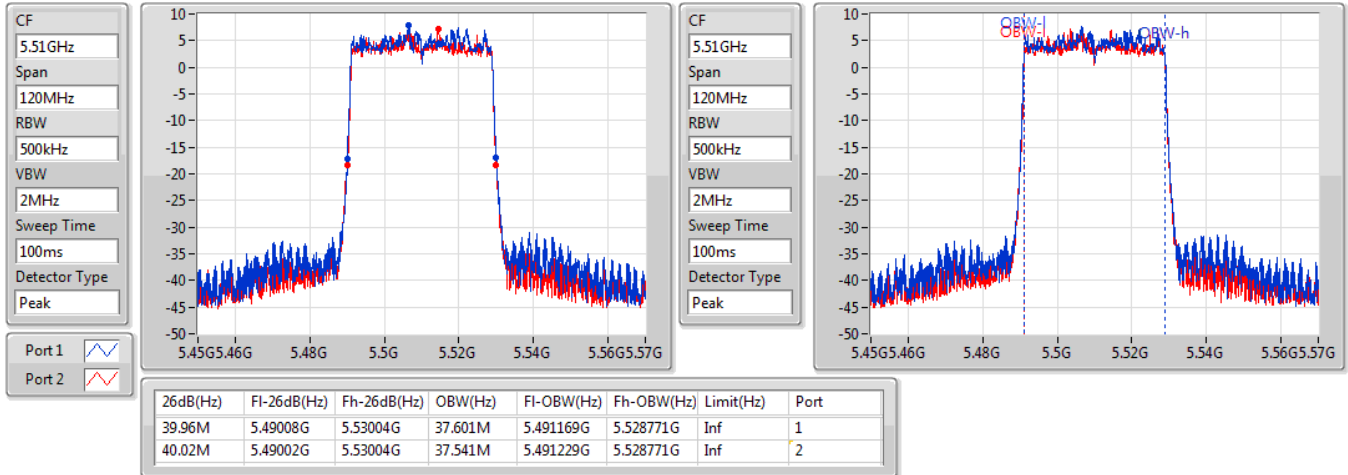


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5510MHz

03/02/2020

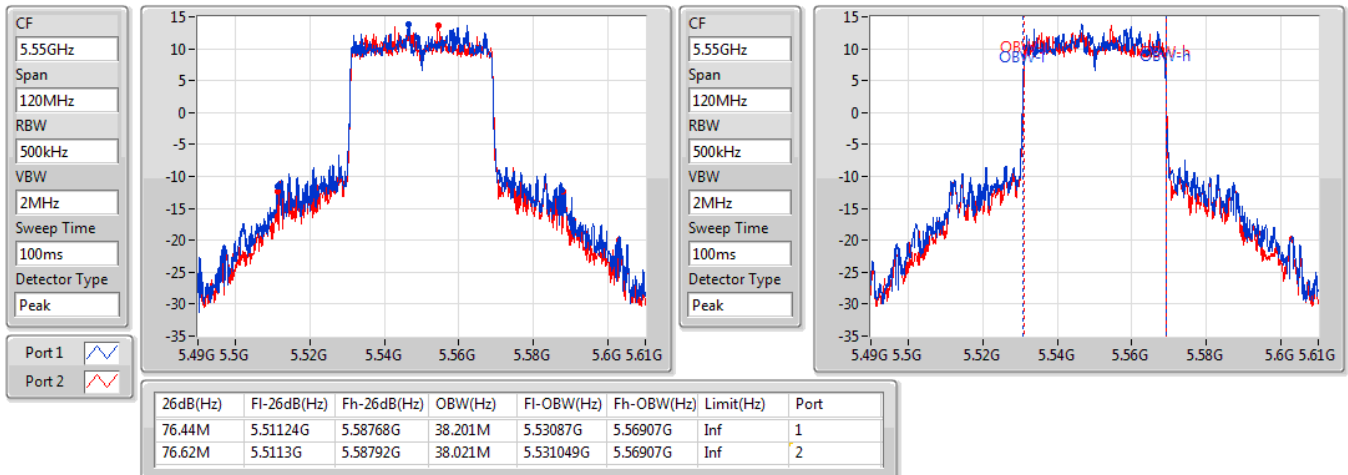


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5550MHz

03/02/2020

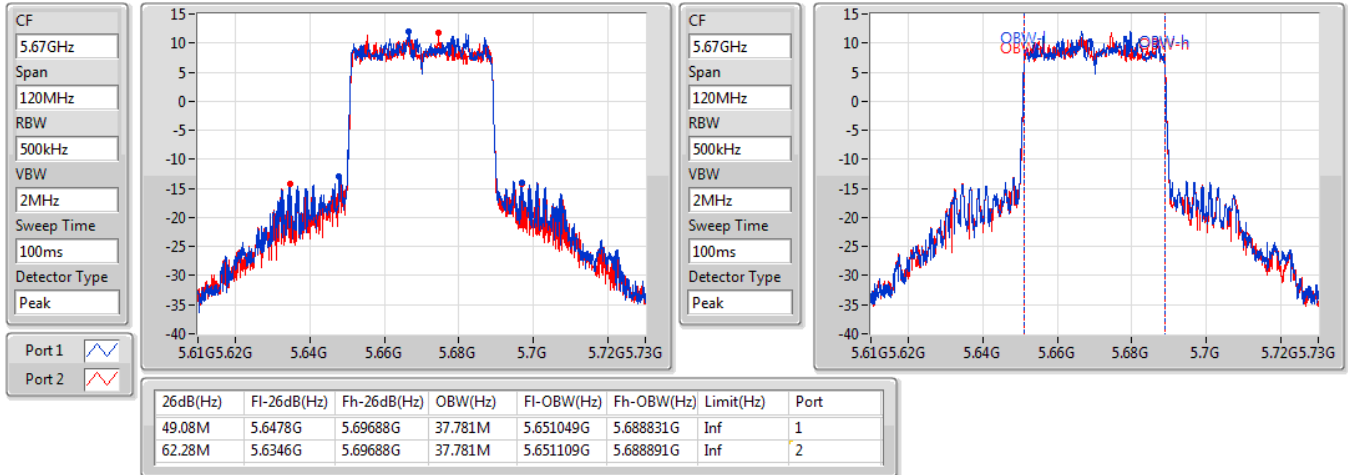


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5670MHz

03/02/2020

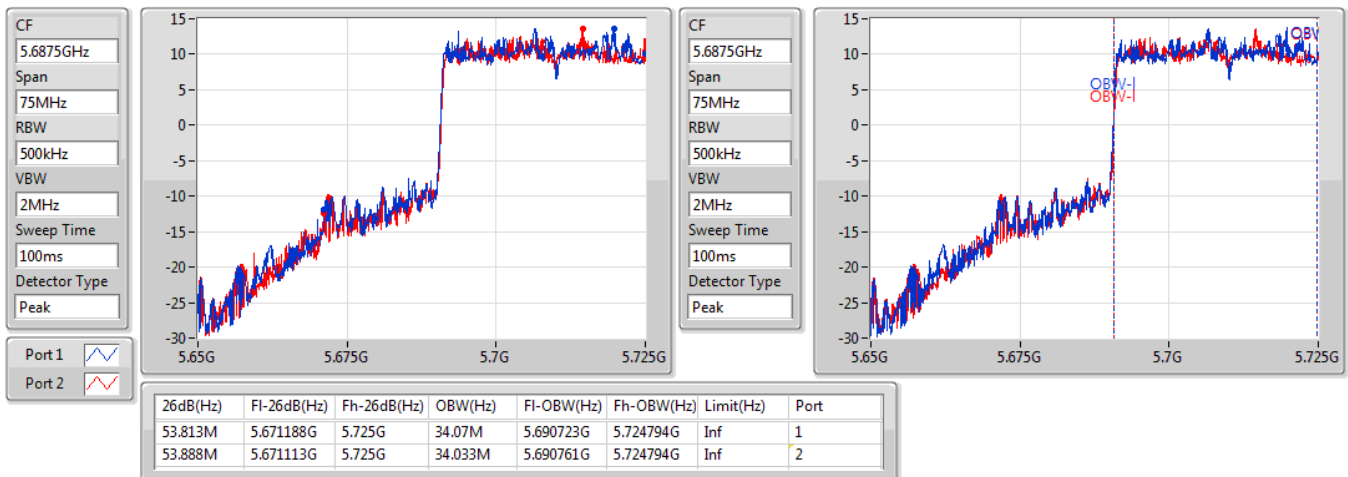


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

03/02/2020

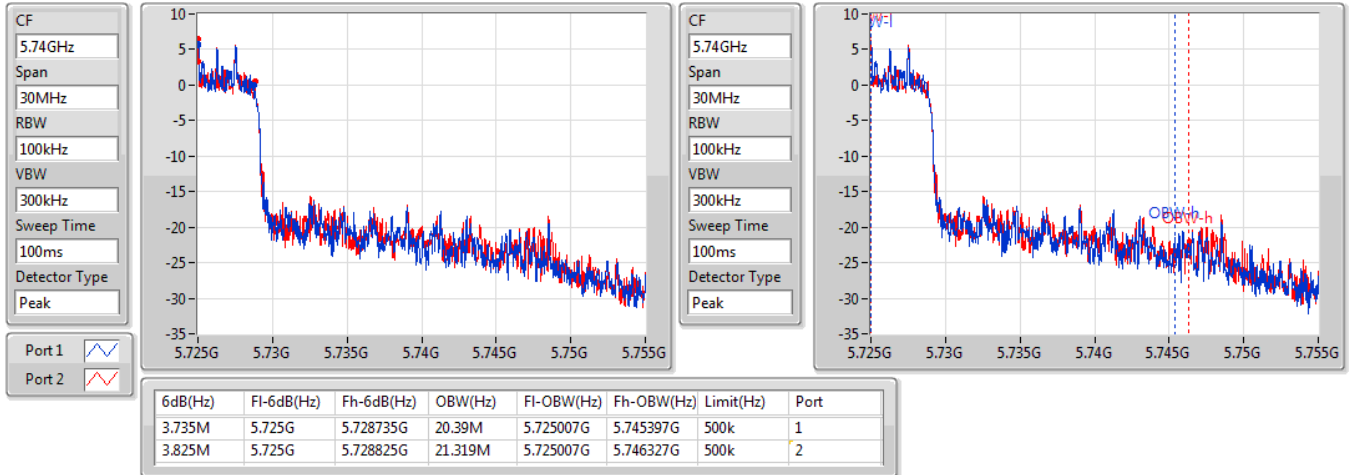


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

03/02/2020

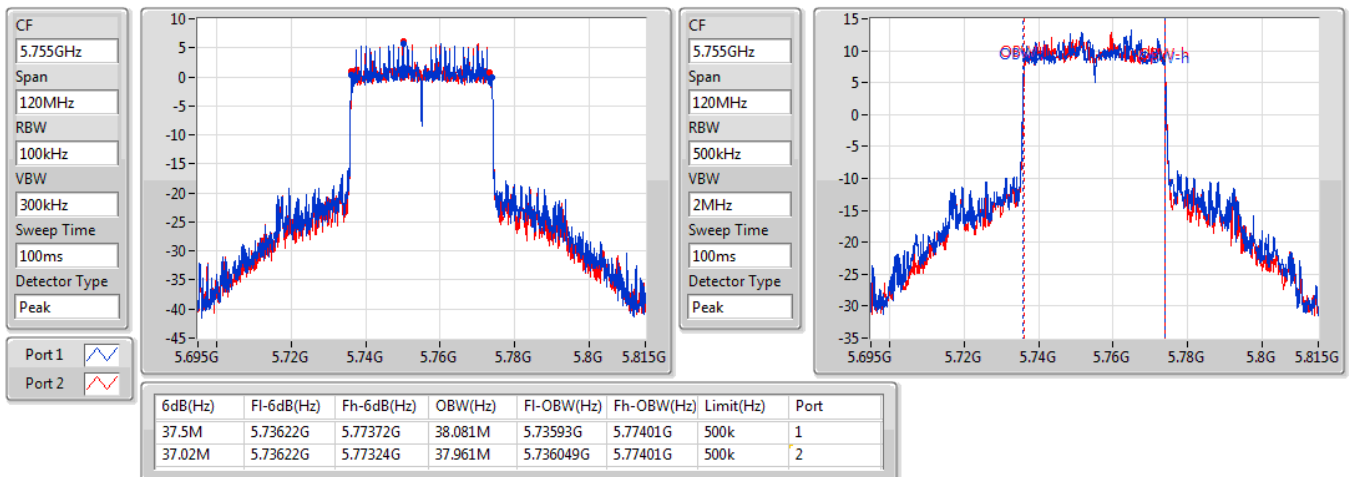


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5755MHz

03/02/2020

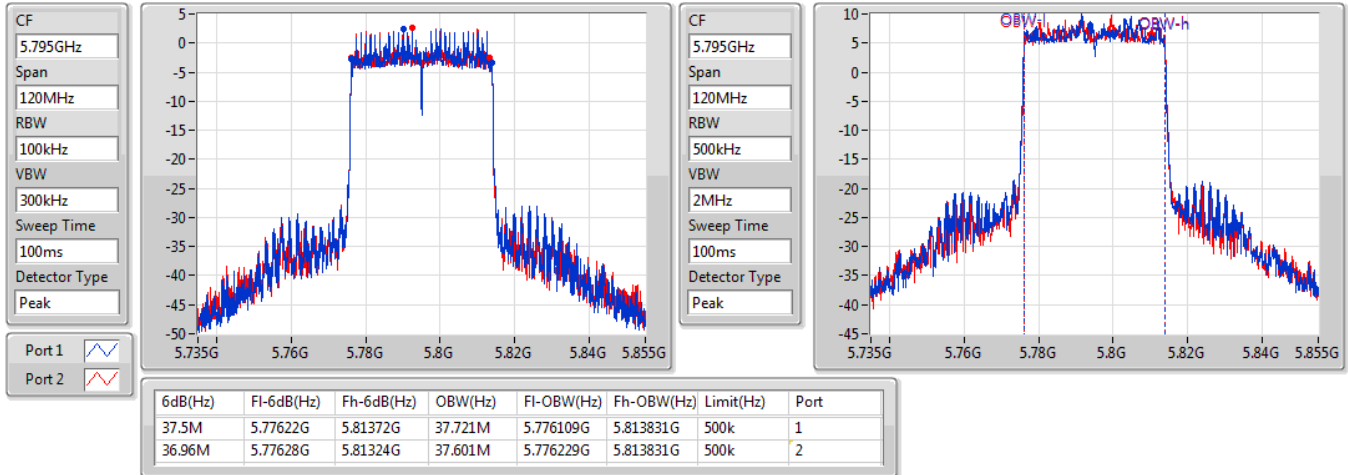


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5795MHz

03/02/2020

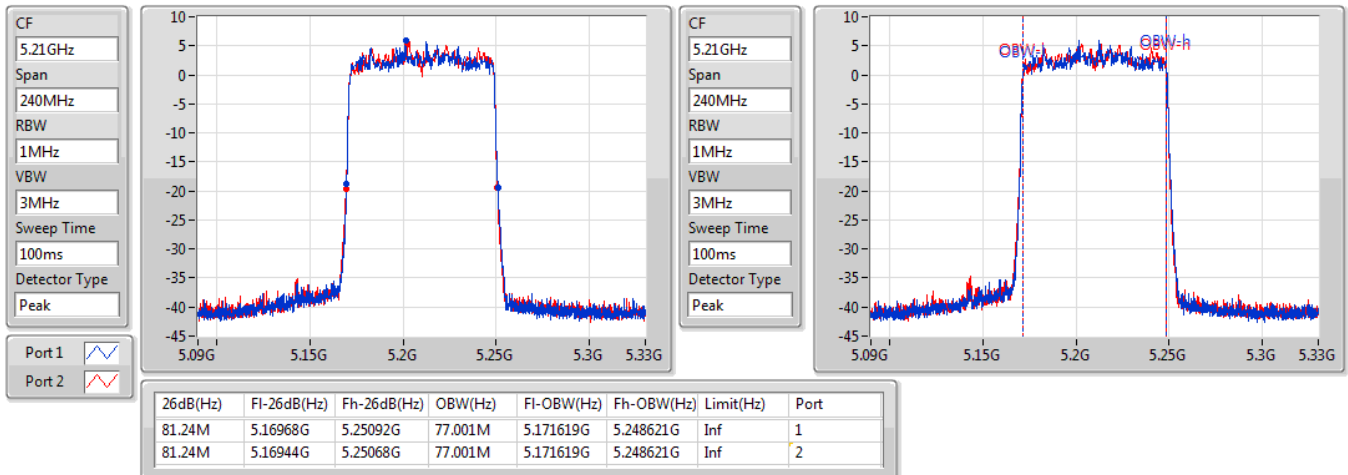


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

03/02/2020

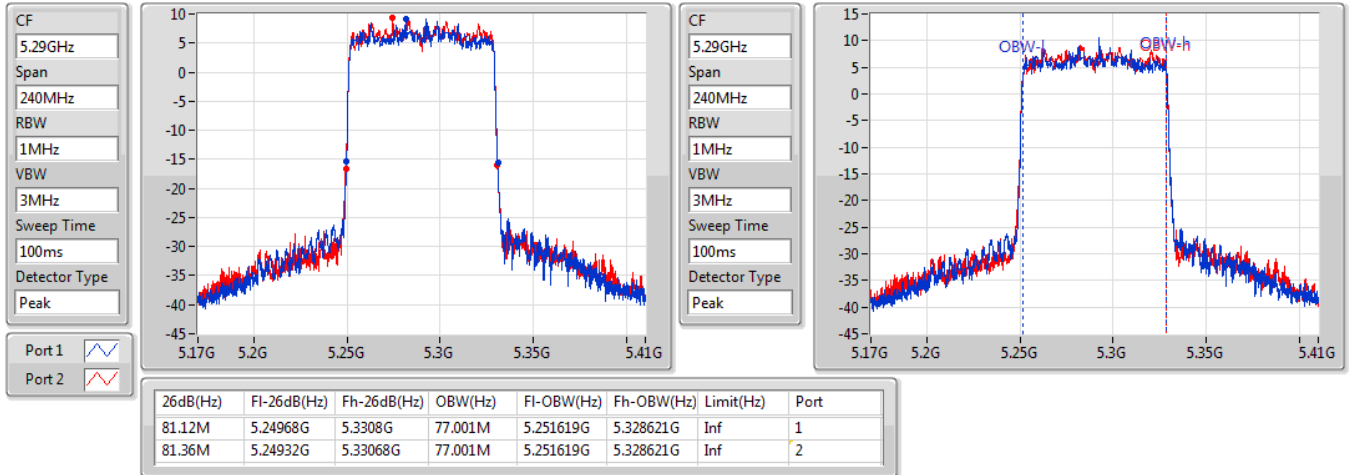


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5290MHz

03/02/2020

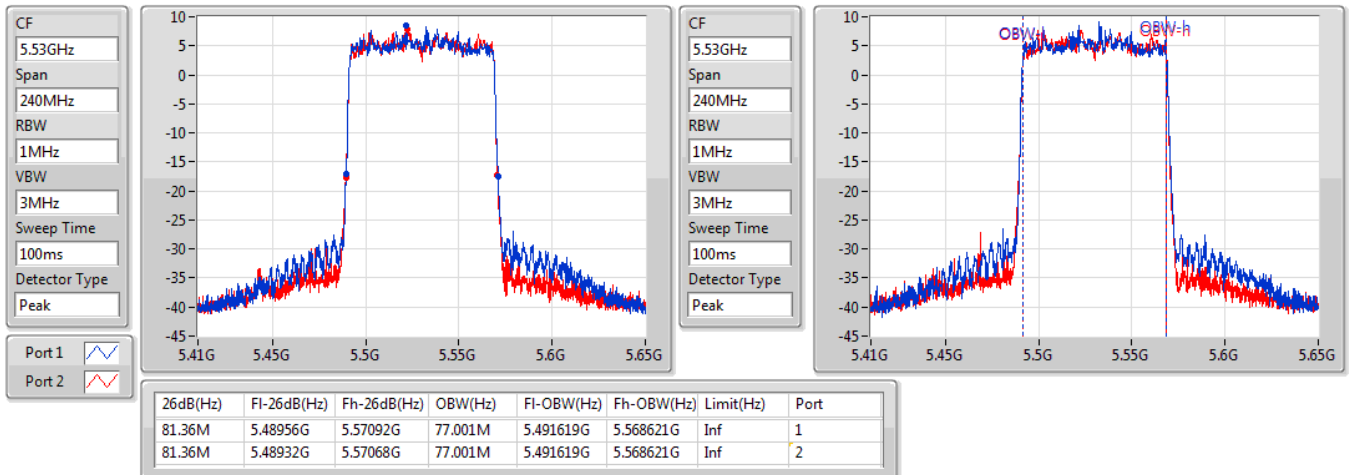


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5530MHz

03/02/2020

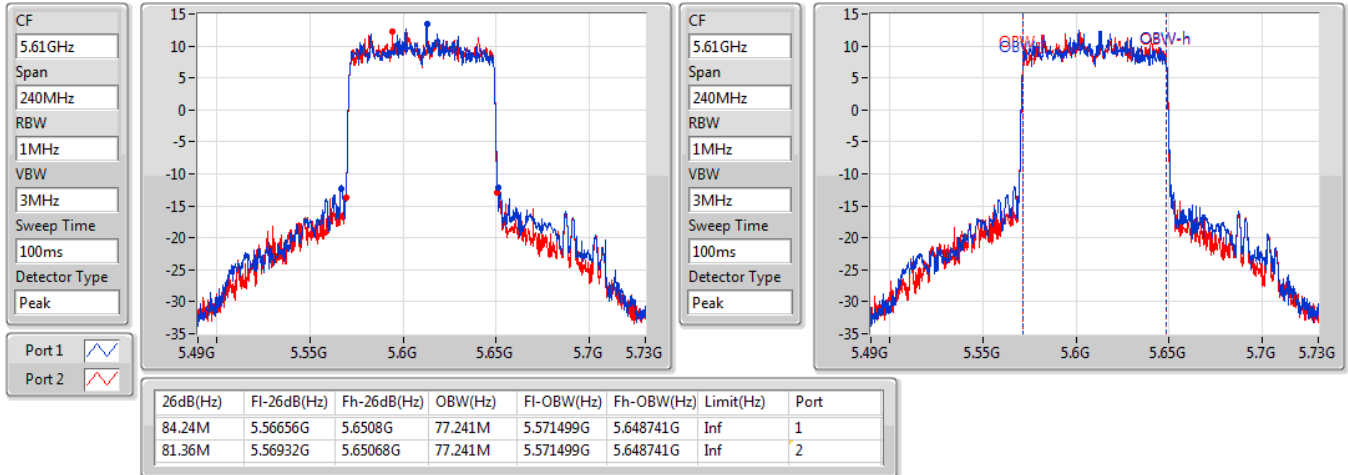


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5610MHz

03/02/2020

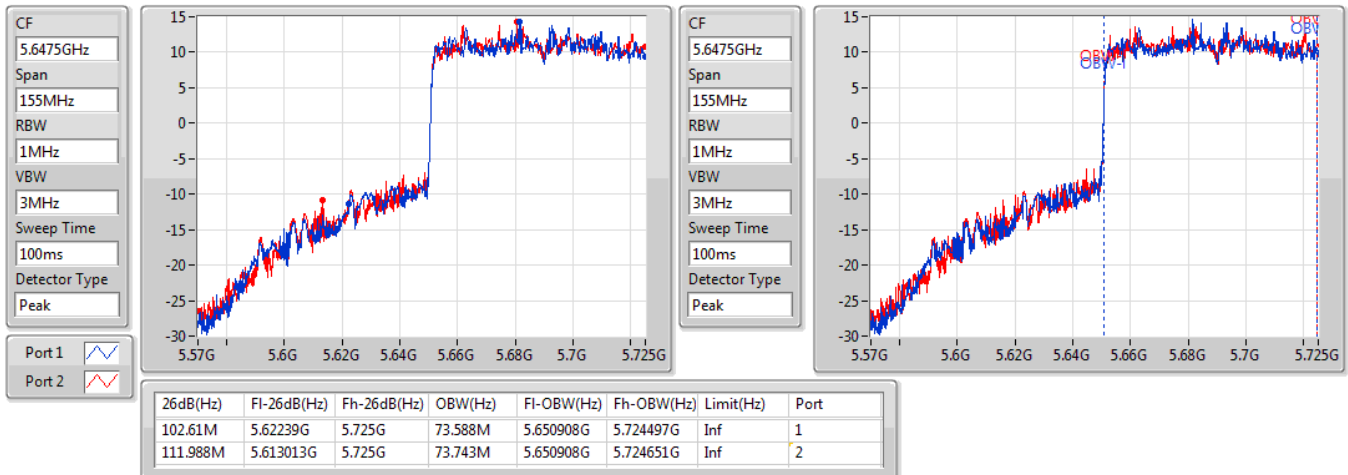


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

03/02/2020

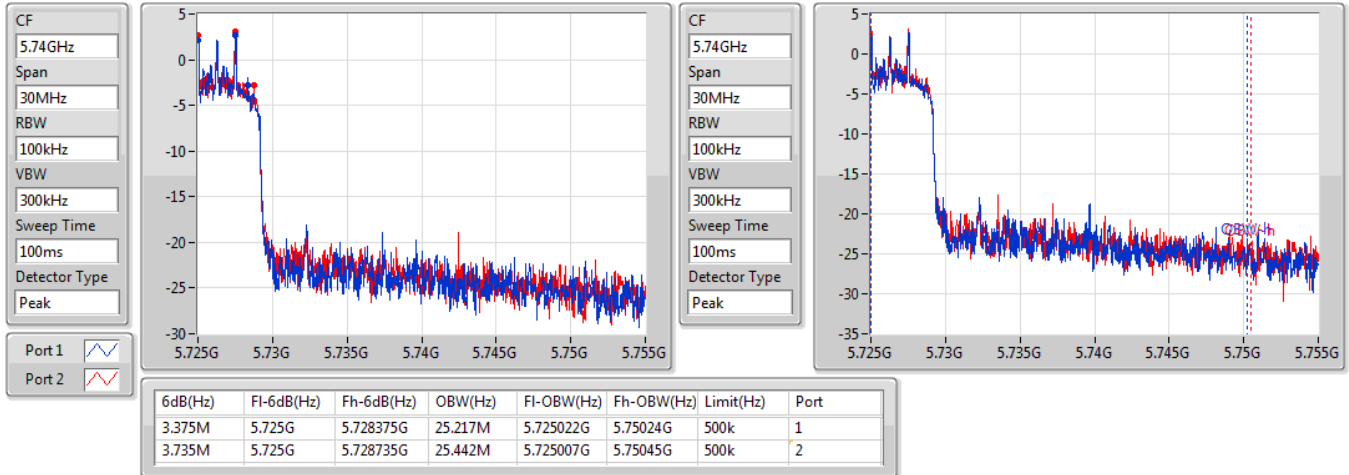


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

03/02/2020

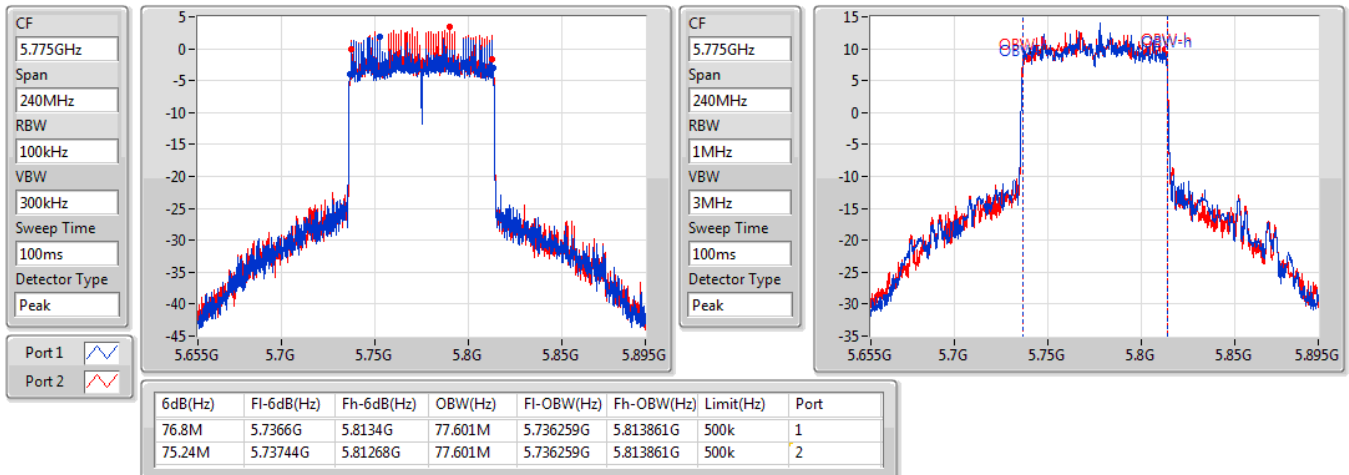


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5775MHz

03/02/2020



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.21M	16.762M	16M8D1D	21.12M	16.732M
802.11ac VHT20_Nss1,(MCS0)_1TX	21.54M	17.871M	17M9D1D	21.48M	17.871M
802.11ac VHT40_Nss1,(MCS0)_1TX	40.2M	36.402M	36M4D1D	40.2M	36.402M
802.11ac VHT80_Nss1,(MCS0)_1TX	81.84M	75.682M	75M7D1D	81.84M	75.682M
802.11ax HEW20_Nss1,(MCS0)_1TX	21.45M	19.01M	19M0D1D	21.36M	19.01M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.14M	37.601M	37M6D1D	40.08M	37.541M
802.11ax HEW80_Nss1,(MCS0)_1TX	81.84M	77.121M	77M1D1D	81.84M	77.121M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	36.75M	19.85M	19M8D1D	22.65M	16.912M
802.11ac VHT20_Nss1,(MCS0)_1TX	37.98M	19.19M	19M2D1D	21.51M	17.901M
802.11ac VHT40_Nss1,(MCS0)_1TX	74.28M	37.001M	37M0D1D	40.2M	36.462M
802.11ac VHT80_Nss1,(MCS0)_1TX	82.08M	75.802M	75M8D1D	82.08M	75.802M
802.11ax HEW20_Nss1,(MCS0)_1TX	40.38M	19.67M	19M7D1D	21.63M	19.04M
802.11ax HEW40_Nss1,(MCS0)_1TX	61.14M	37.901M	37M9D1D	40.2M	37.661M
802.11ax HEW80_Nss1,(MCS0)_1TX	82.44M	77.121M	77M1D1D	82.44M	77.121M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	36.12M	18.951M	19M0D1D	21.06M	14.71M
802.11ac VHT20_Nss1,(MCS0)_1TX	35.76M	18.921M	18M9D1D	21.51M	14.395M
802.11ac VHT40_Nss1,(MCS0)_1TX	80.28M	37.361M	37M4D1D	40.32M	34.67M
802.11ac VHT80_Nss1,(MCS0)_1TX	129.84M	76.162M	76M2D1D	82.44M	73.821M
802.11ax HEW20_Nss1,(MCS0)_1TX	40.98M	19.61M	19M6D1D	21.21M	14.78M
802.11ax HEW40_Nss1,(MCS0)_1TX	66.42M	37.961M	38M0D1D	40.14M	34.108M
802.11ax HEW80_Nss1,(MCS0)_1TX	118.963M	77.481M	77M5D1D	81.96M	73.976M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.29M	26.057M	26M1D1D	3.195M	10.33M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.55M	27.226M	27M2D1D	3.78M	8.981M
802.11ac VHT40_Nss1,(MCS0)_1TX	36.3M	54.693M	54M7D1D	3.18M	21.679M
802.11ac VHT80_Nss1,(MCS0)_1TX	75.48M	77.601M	77M6D1D	3.15M	27.286M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.87M	27.916M	27M9D1D	4.5M	9.895M
802.11ax HEW40_Nss1,(MCS0)_1TX	36.9M	56.132M	56M1D1D	3.78M	22.324M
802.11ax HEW80_Nss1,(MCS0)_1TX	76.68M	78.561M	78M6D1D	3.54M	27.676M

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	21.18M	16.732M
5200MHz	Pass	Inf	21.21M	16.762M
5240MHz	Pass	Inf	21.12M	16.732M
5260MHz	Pass	Inf	36.75M	19.85M
5300MHz	Pass	Inf	36.09M	19.4M
5320MHz	Pass	Inf	22.65M	16.912M
5500MHz	Pass	Inf	21.42M	16.792M
5580MHz	Pass	Inf	36.12M	18.951M
5700MHz	Pass	Inf	21.06M	16.792M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	23.398M	14.71M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.195M	10.33M
5745MHz	Pass	500k	16.29M	23.628M
5785MHz	Pass	500k	16.29M	24.978M
5825MHz	Pass	500k	16.29M	26.057M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.48M	17.871M
5200MHz	Pass	Inf	21.48M	17.871M
5240MHz	Pass	Inf	21.54M	17.871M
5260MHz	Pass	Inf	37.98M	19.19M
5300MHz	Pass	Inf	36M	18.891M
5320MHz	Pass	Inf	21.51M	17.901M
5500MHz	Pass	Inf	21.57M	17.841M
5580MHz	Pass	Inf	35.76M	18.921M
5700MHz	Pass	Inf	21.51M	17.871M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	22.523M	14.395M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	8.981M
5745MHz	Pass	500k	17.55M	24.348M
5785MHz	Pass	500k	17.52M	26.117M
5825MHz	Pass	500k	17.55M	27.226M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.2M	36.402M
5230MHz	Pass	Inf	40.2M	36.402M
5270MHz	Pass	Inf	74.28M	37.001M
5310MHz	Pass	Inf	40.2M	36.462M
5510MHz	Pass	Inf	40.32M	36.402M
5550MHz	Pass	Inf	80.28M	37.361M
5670MHz	Pass	Inf	40.32M	36.522M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	55.725M	34.67M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	21.679M
5755MHz	Pass	500k	36.3M	51.874M
5795MHz	Pass	500k	36.3M	54.693M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.84M	75.682M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
5290MHz	Pass	Inf	82.08M	75.802M
5530MHz	Pass	Inf	82.44M	75.802M
5610MHz	Pass	Inf	129.84M	76.162M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	114.7M	73.821M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.15M	27.286M
5775MHz	Pass	500k	75.48M	77.601M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.36M	19.01M
5200MHz	Pass	Inf	21.42M	19.01M
5240MHz	Pass	Inf	21.45M	19.01M
5260MHz	Pass	Inf	40.38M	19.67M
5300MHz	Pass	Inf	37.68M	19.52M
5320MHz	Pass	Inf	21.63M	19.04M
5500MHz	Pass	Inf	21.39M	19.01M
5580MHz	Pass	Inf	40.98M	19.61M
5700MHz	Pass	Inf	21.21M	19.01M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	25.235M	14.78M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	9.895M
5745MHz	Pass	500k	18.87M	25.157M
5785MHz	Pass	500k	18.78M	26.897M
5825MHz	Pass	500k	18.84M	27.916M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.14M	37.541M
5230MHz	Pass	Inf	40.08M	37.601M
5270MHz	Pass	Inf	61.14M	37.901M
5310MHz	Pass	Inf	40.2M	37.661M
5510MHz	Pass	Inf	40.14M	37.541M
5550MHz	Pass	Inf	66.42M	37.961M
5670MHz	Pass	Inf	40.14M	37.601M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	54.038M	34.108M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	22.324M
5755MHz	Pass	500k	36.78M	45.637M
5795MHz	Pass	500k	36.9M	56.132M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	81.84M	77.121M
5290MHz	Pass	Inf	82.44M	77.121M
5530MHz	Pass	Inf	81.96M	77.121M
5610MHz	Pass	Inf	114.12M	77.481M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	118.963M	73.976M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.54M	27.676M
5775MHz	Pass	500k	76.68M	78.561M

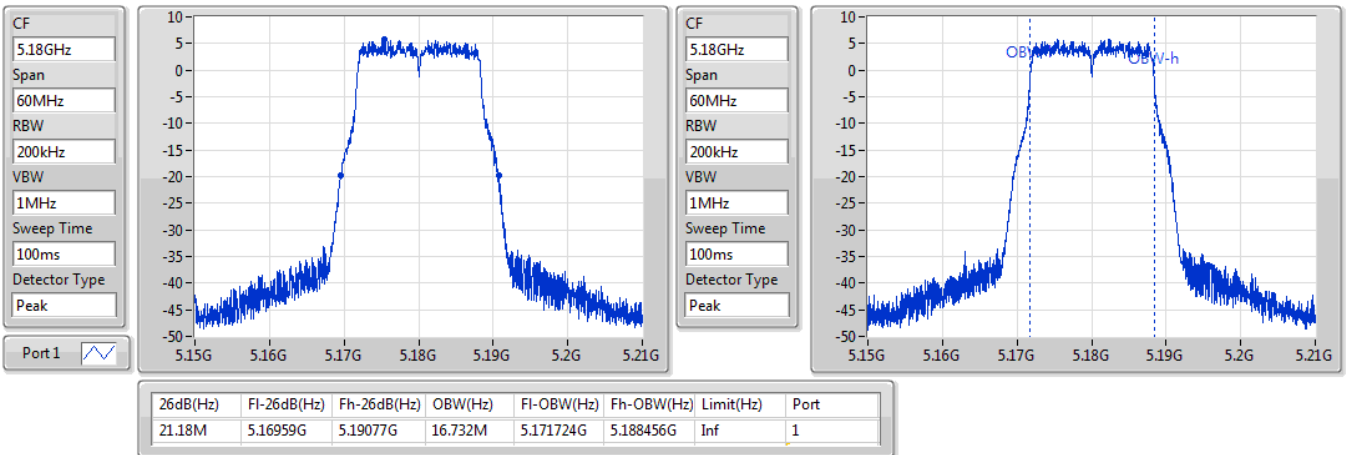
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

06/02/2020

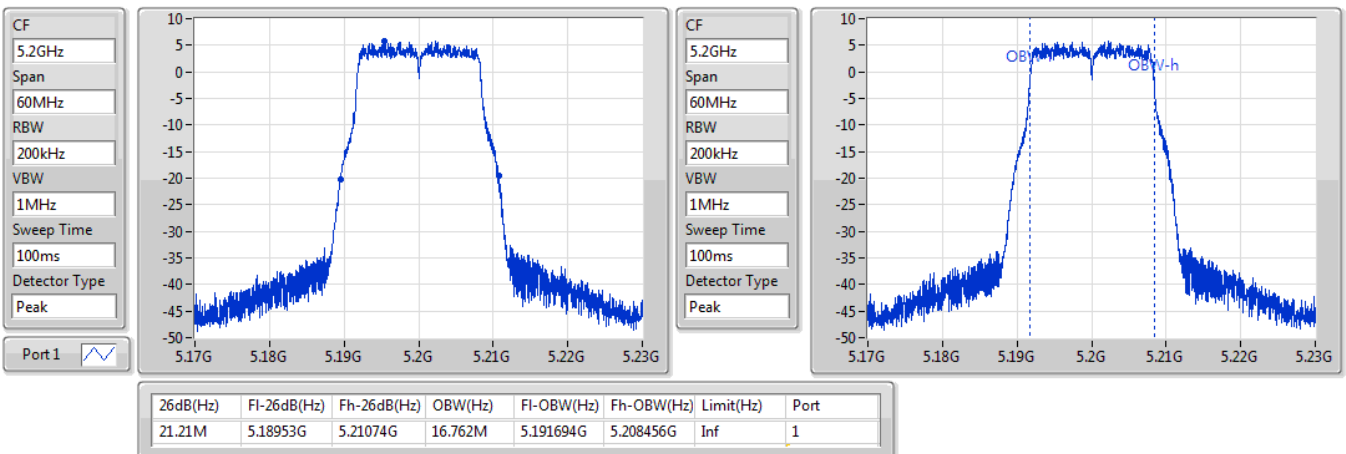


802.11a_Nss1,(6Mbps)_1TX

EBW

5200MHz

06/02/2020

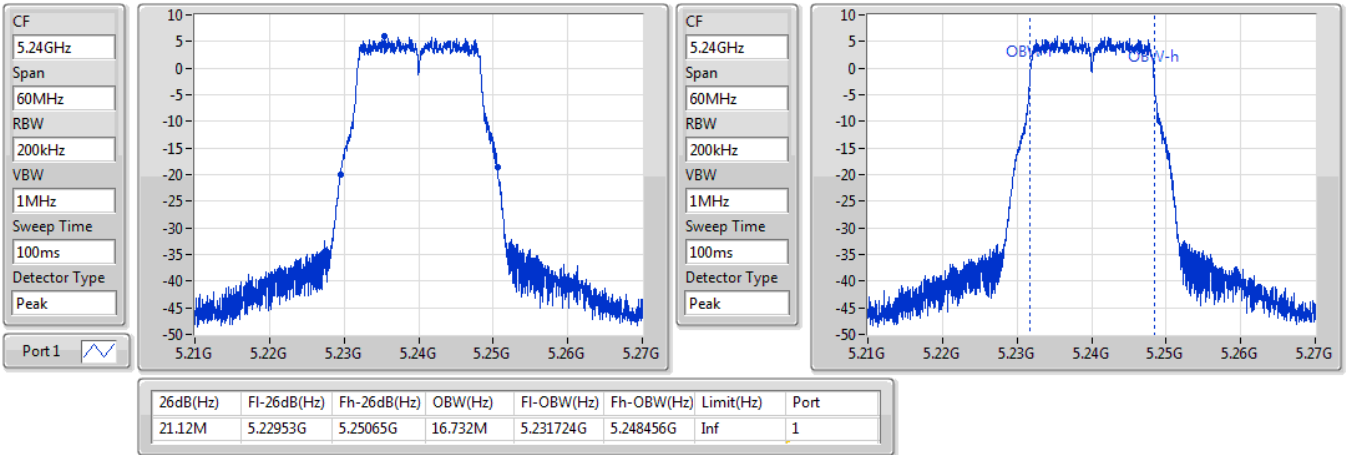


802.11a_Nss1,(6Mbps)_1TX

EBW

5240MHz

06/02/2020

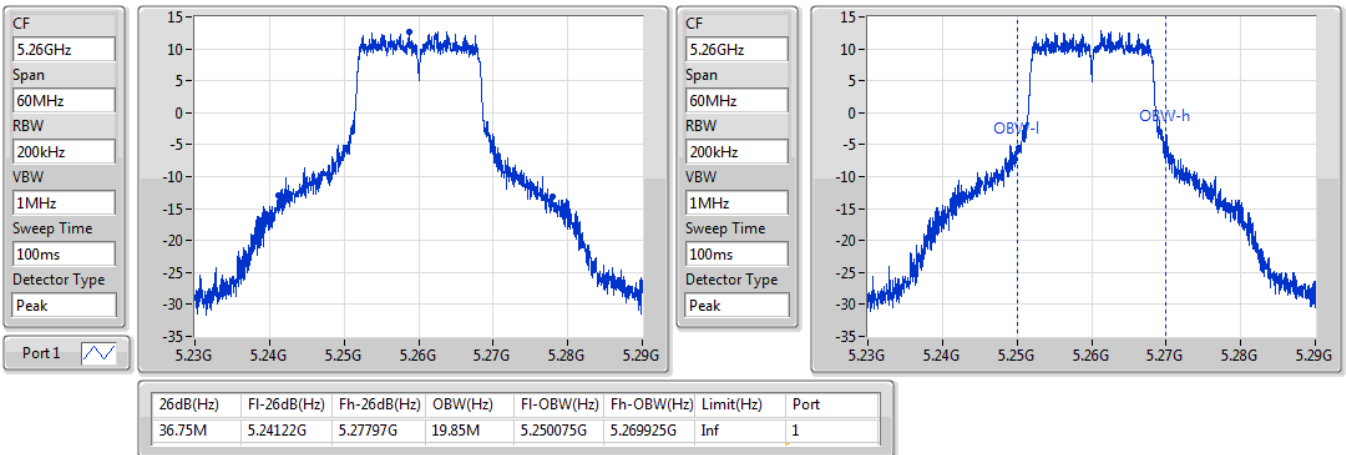


802.11a_Nss1,(6Mbps)_1TX

EBW

5260MHz

04/02/2020

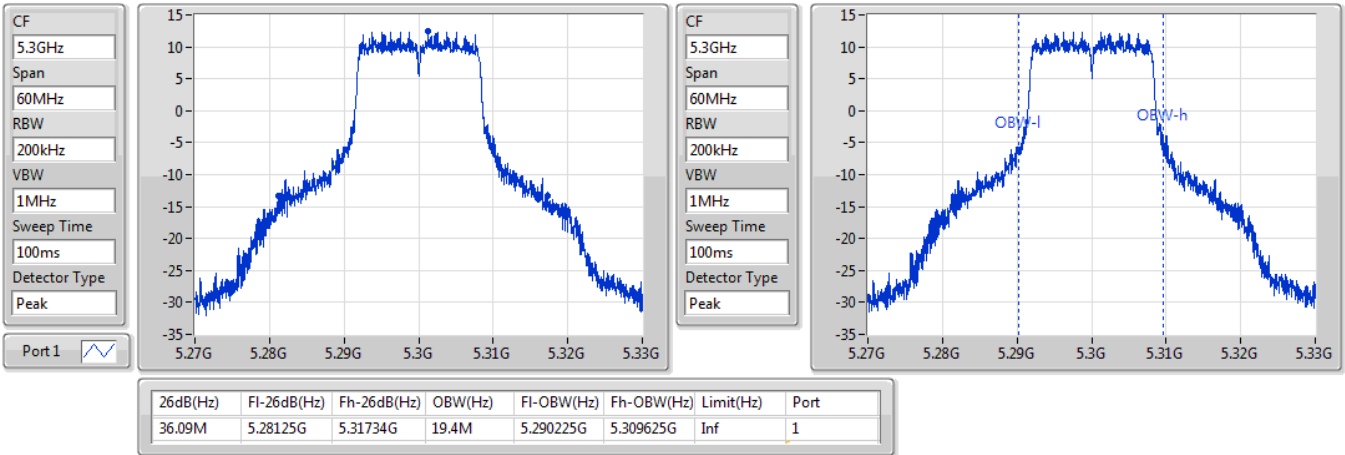


802.11a_Nss1,(6Mbps)_1TX

EBW

5300MHz

04/02/2020

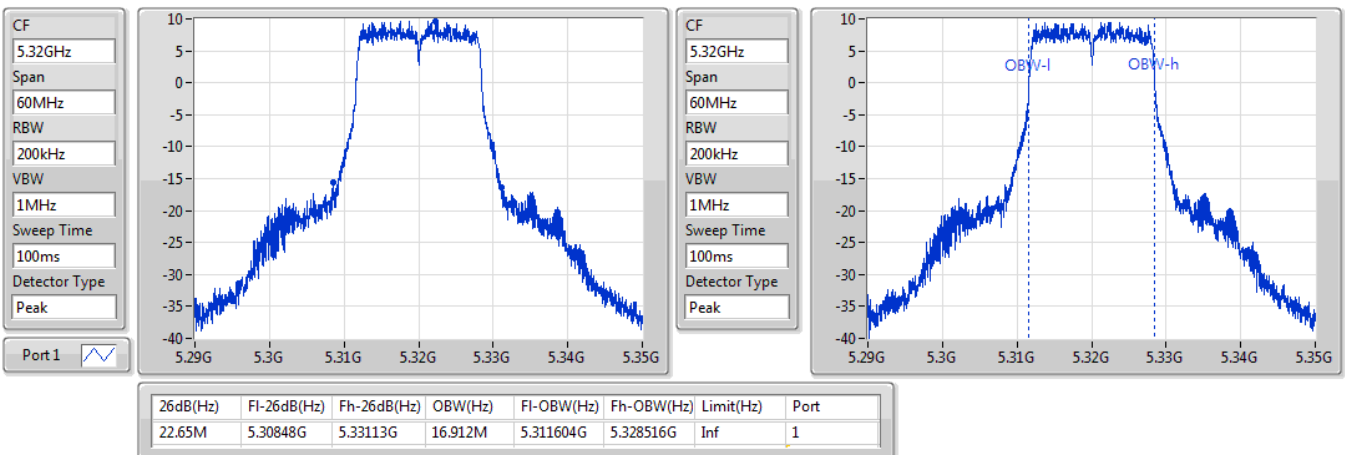


802.11a_Nss1,(6Mbps)_1TX

EBW

5320MHz

04/02/2020

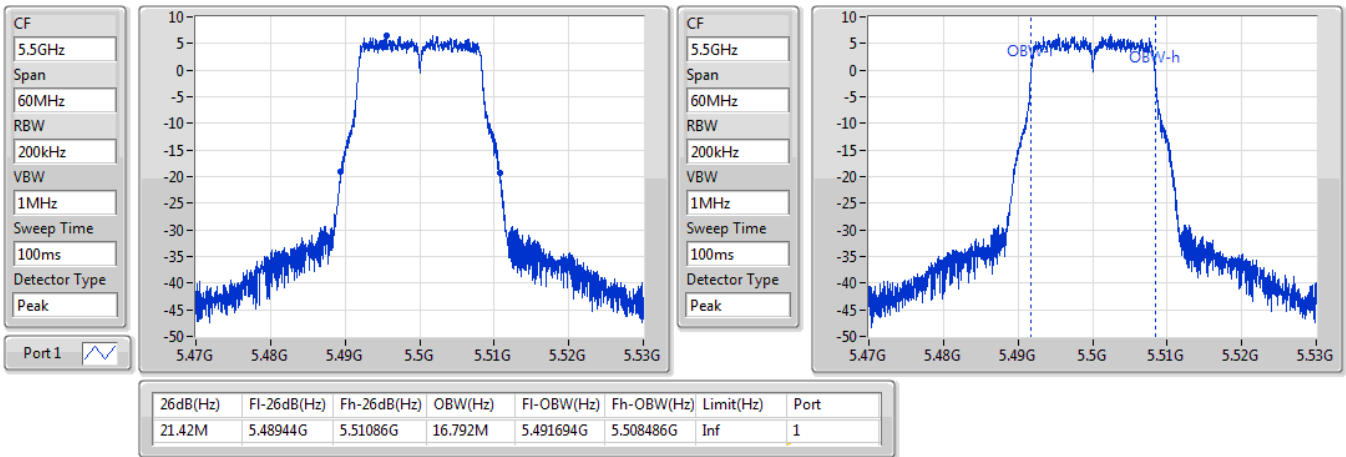


802.11a_Nss1,(6Mbps)_1TX

EBW

5500MHz

04/02/2020

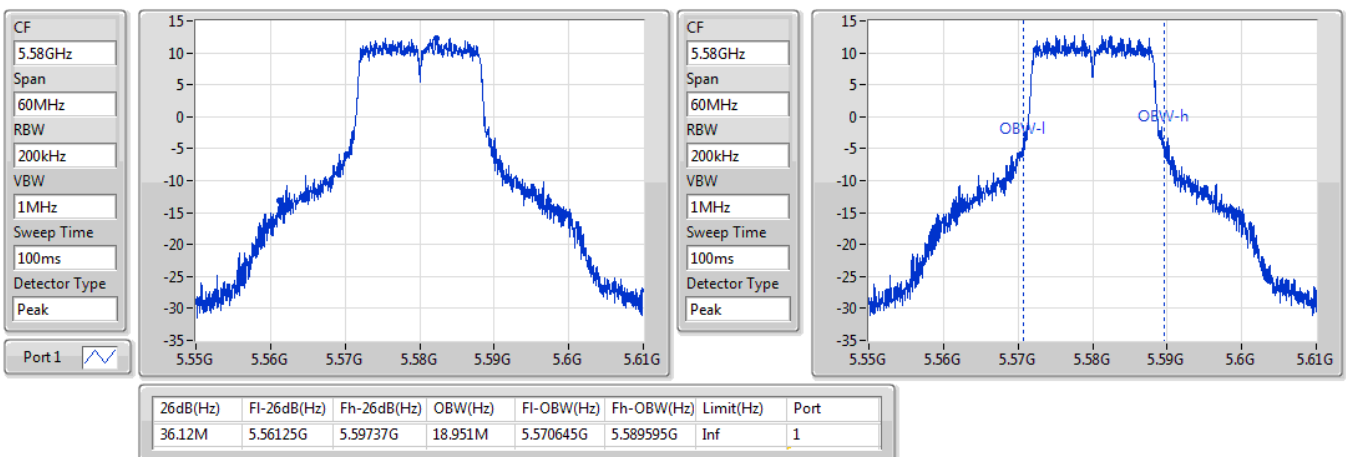


802.11a_Nss1,(6Mbps)_1TX

EBW

5580MHz

04/02/2020

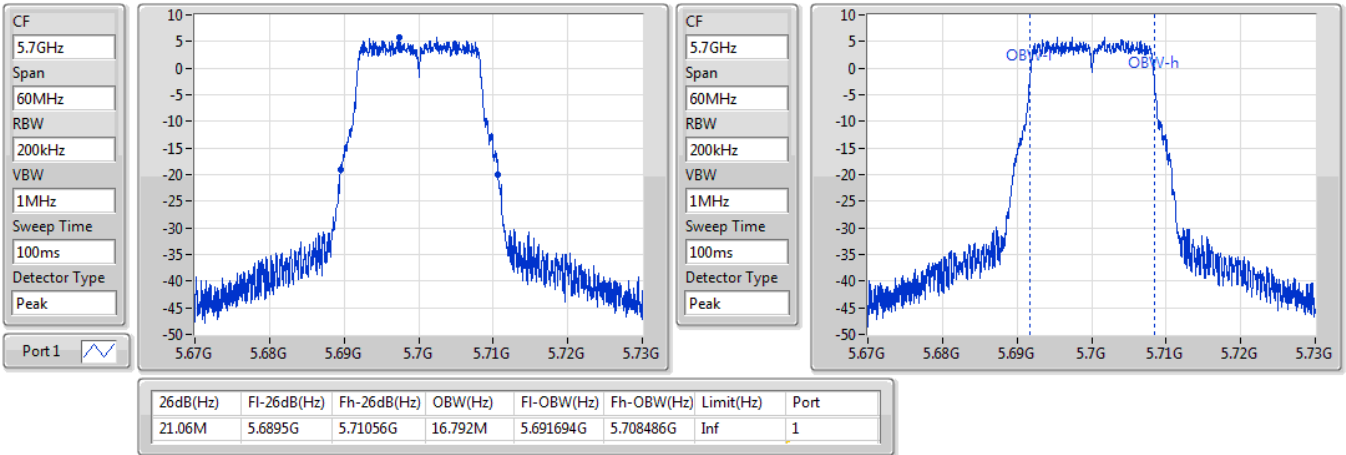


802.11a_Nss1,(6Mbps)_1TX

EBW

5700MHz

04/02/2020

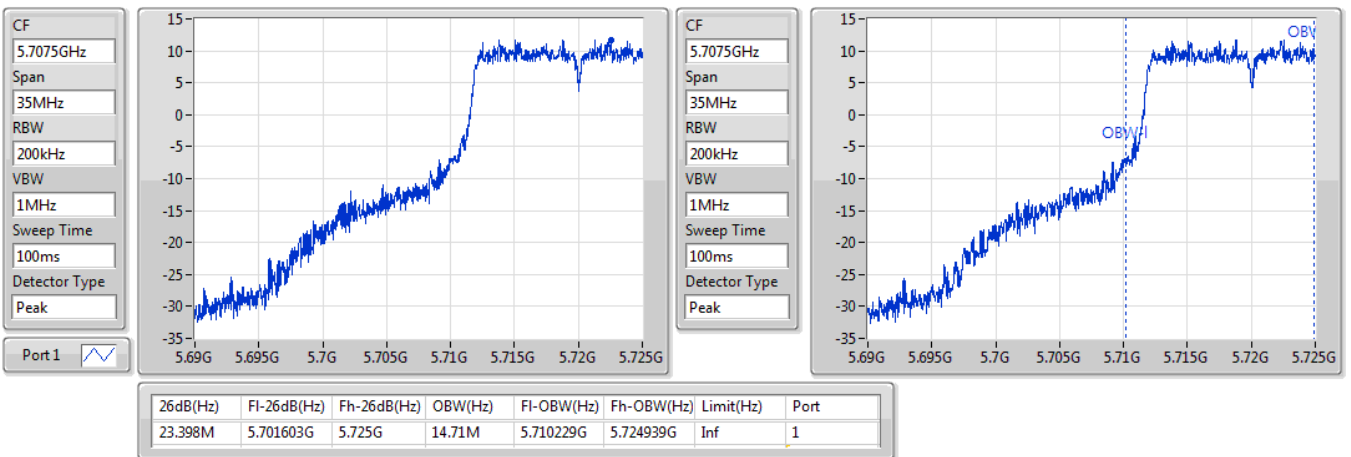


802.11a_Nss1,(6Mbps)_1TX

EBW

5720MHz Straddle 5.47-5.725GHz

04/02/2020

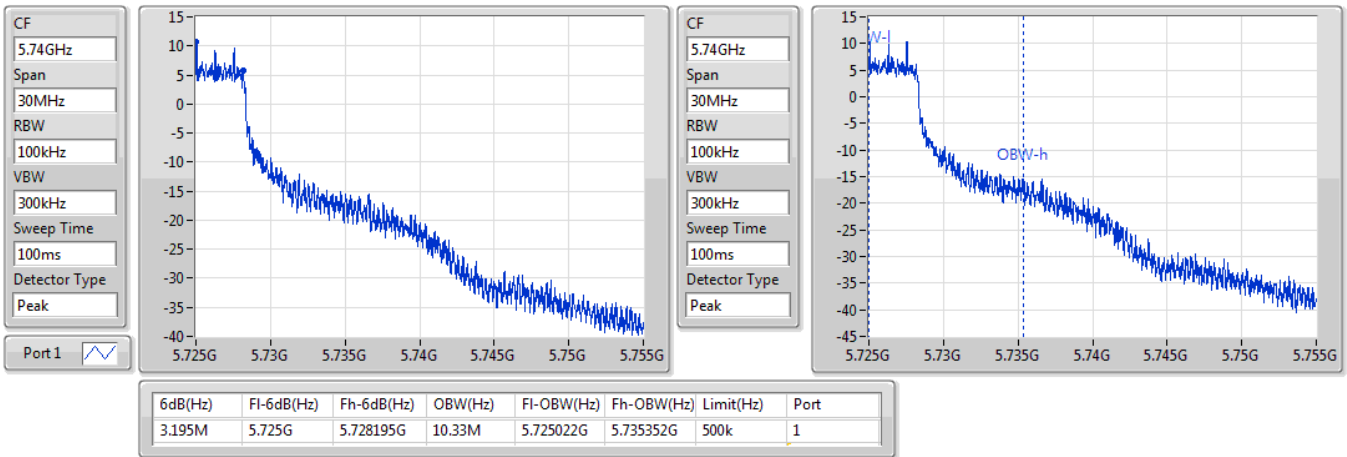


802.11a_Nss1,(6Mbps)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

04/02/2020

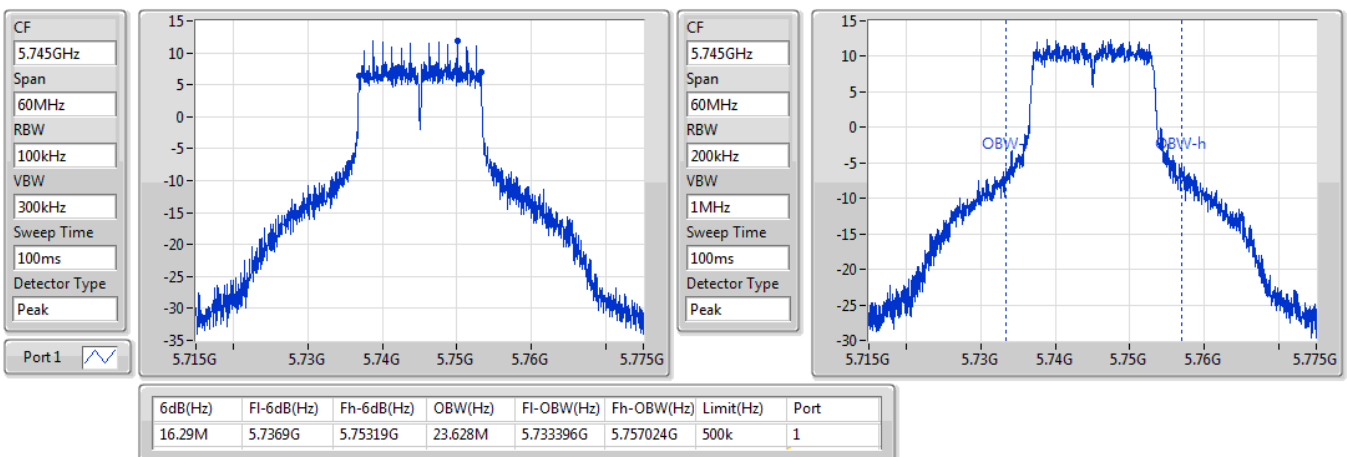


802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

04/02/2020

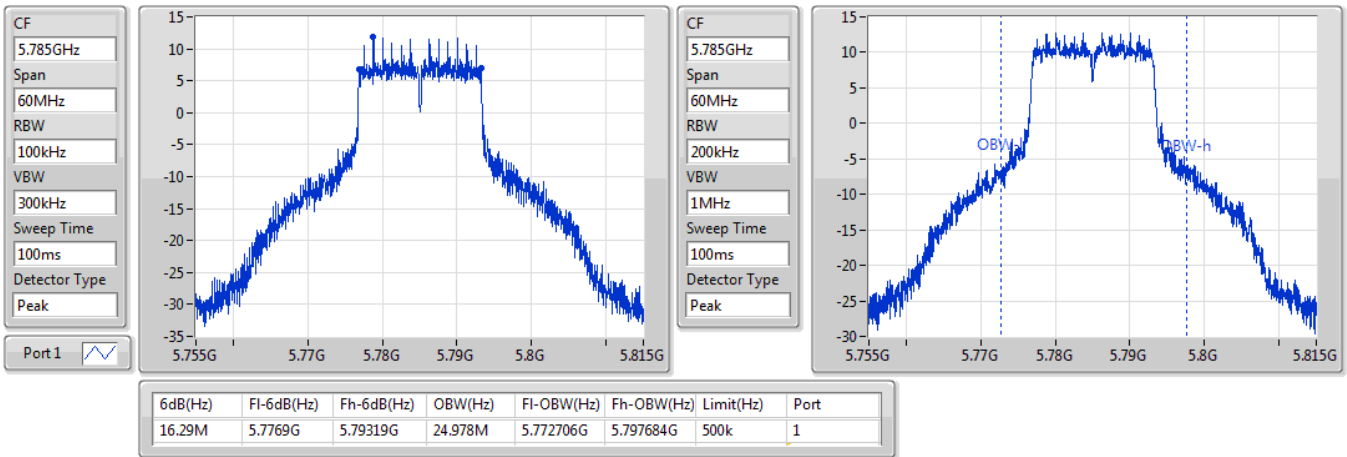


802.11a_Nss1,(6Mbps)_1TX

EBW

5785MHz

04/02/2020

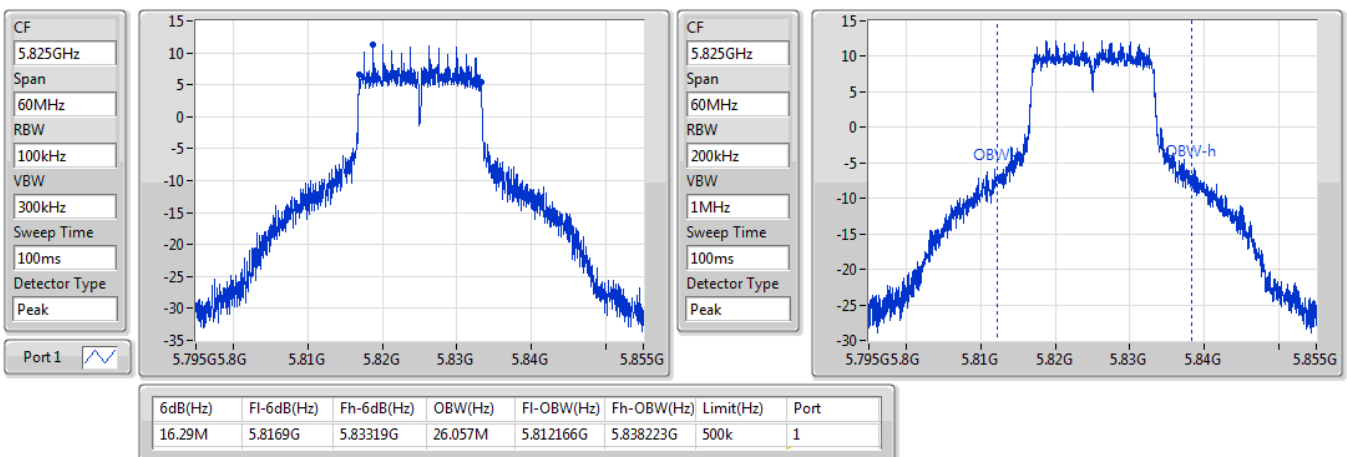


802.11a_Nss1,(6Mbps)_1TX

EBW

5825MHz

04/02/2020

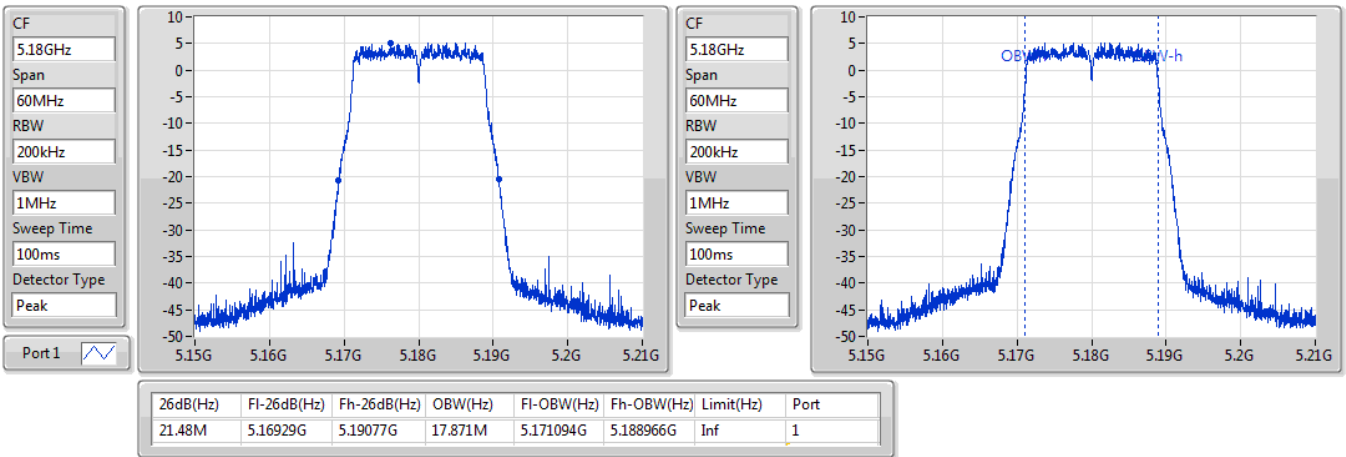


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5180MHz

06/02/2020

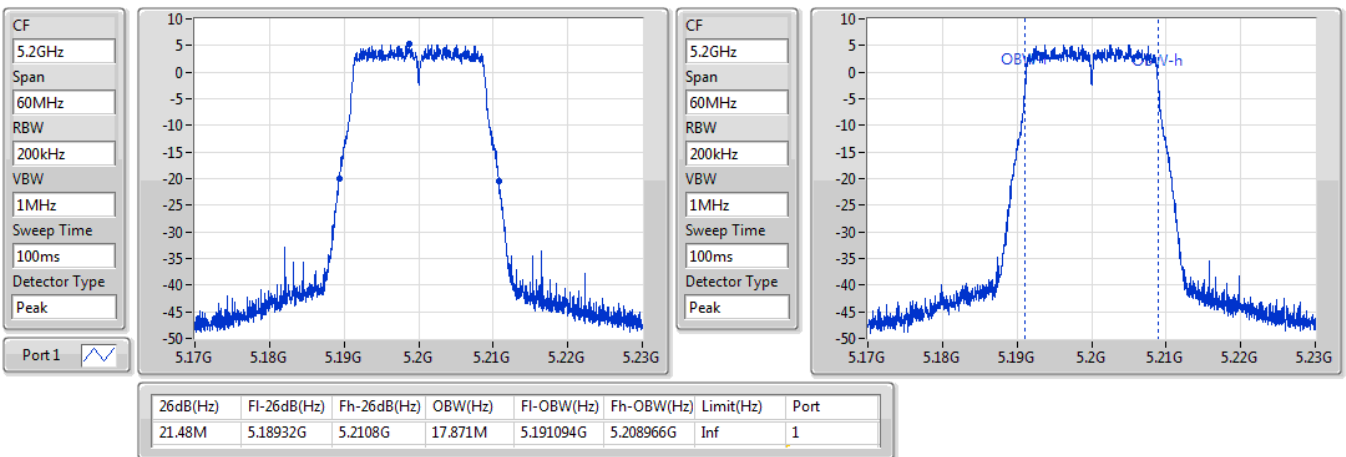


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5200MHz

06/02/2020

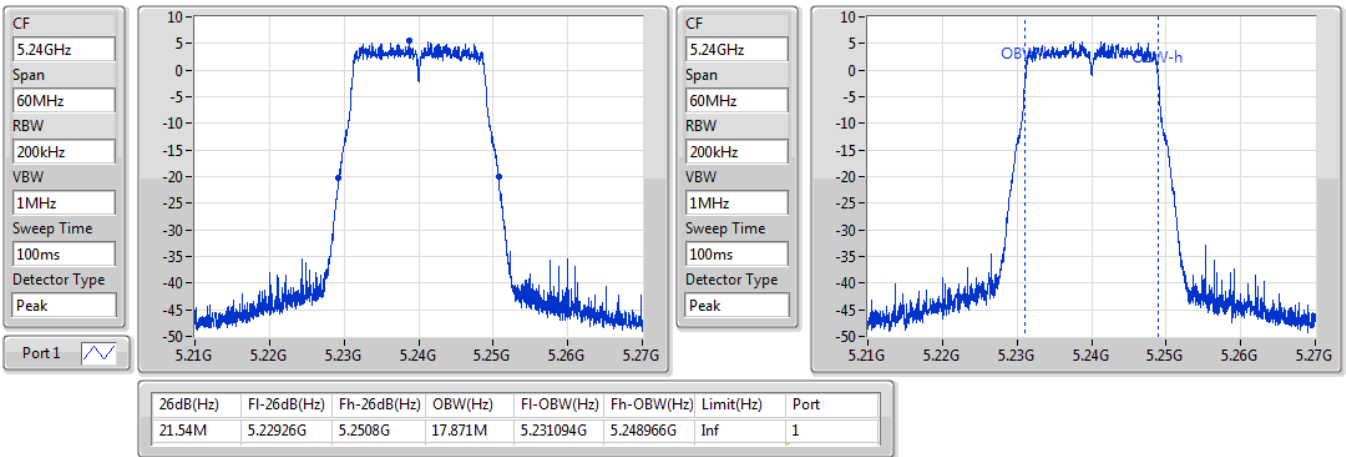


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5240MHz

06/02/2020

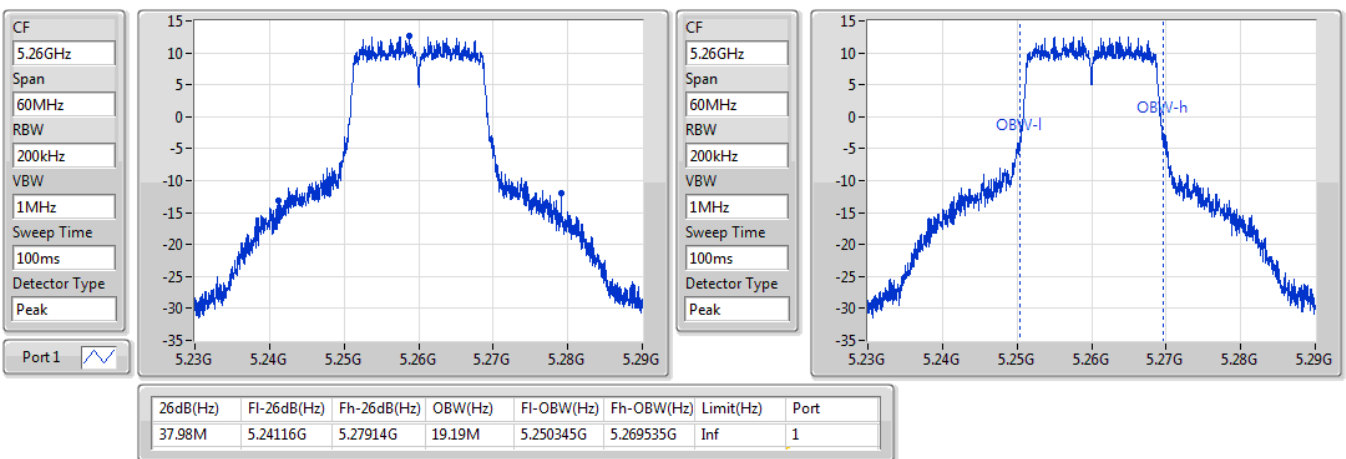


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5260MHz

05/02/2020

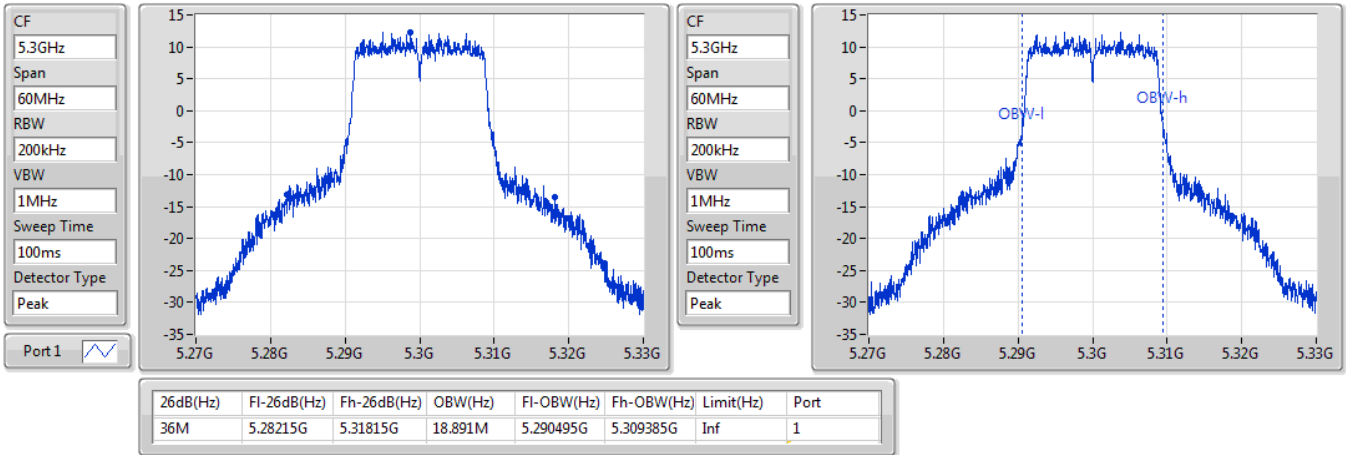


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5300MHz

05/02/2020

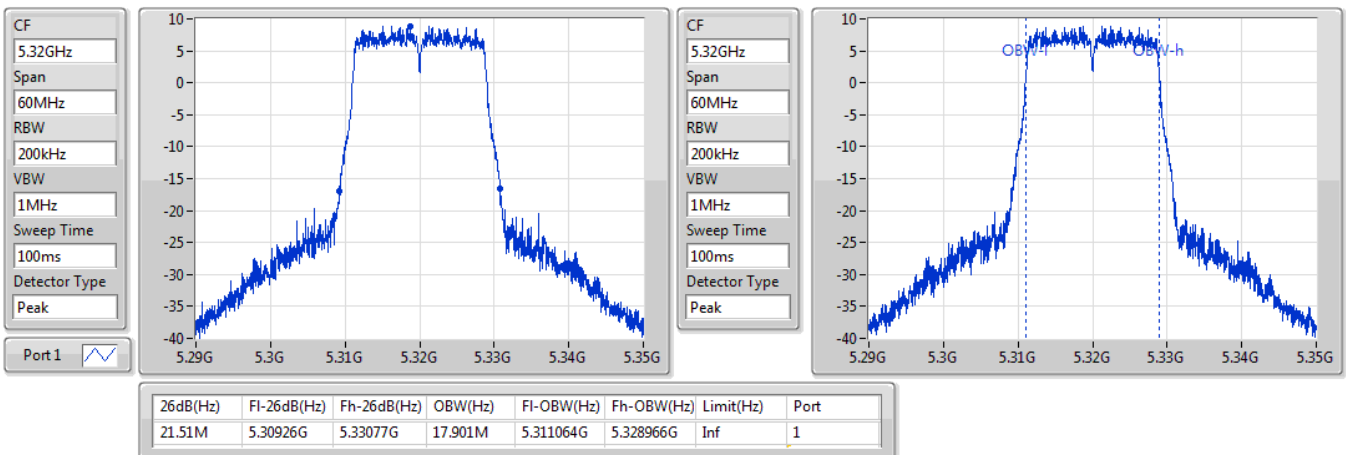


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5320MHz

05/02/2020

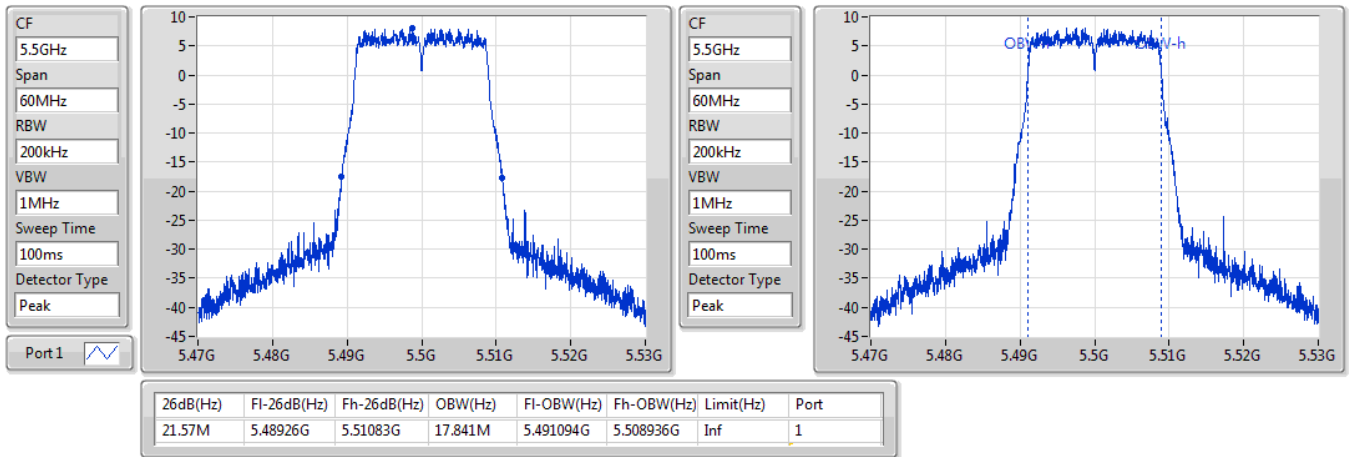


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5500MHz

05/02/2020

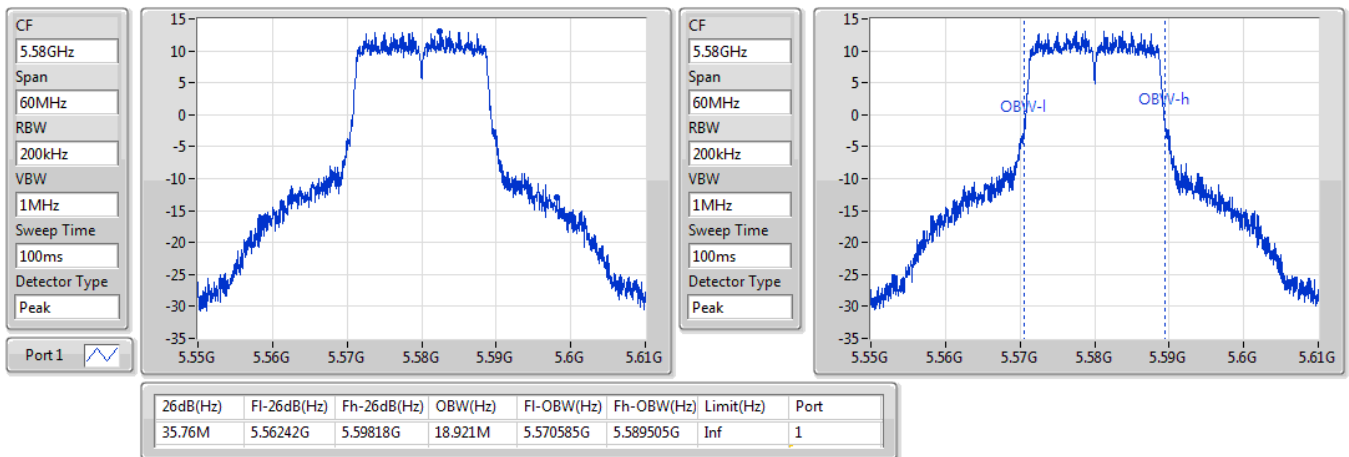


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5580MHz

05/02/2020

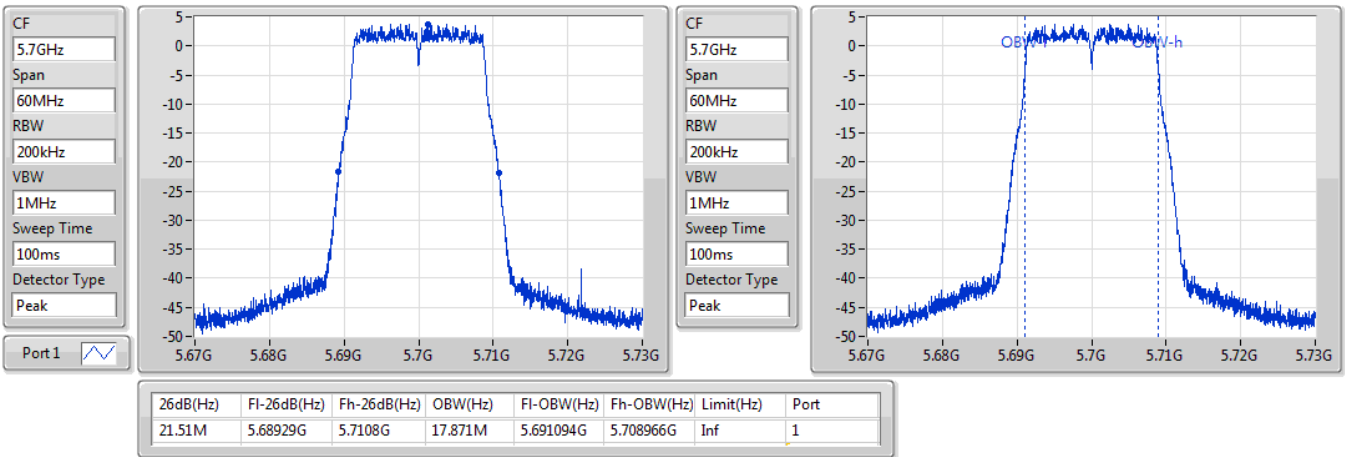


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5700MHz

05/02/2020

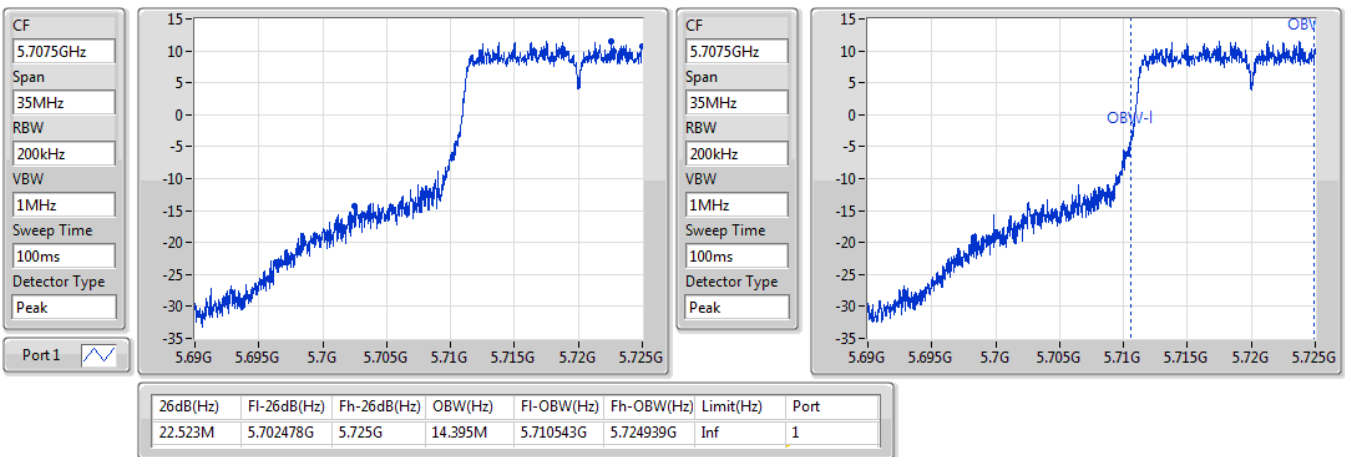


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5720MHz Straddle 5.67-5.725GHz

05/02/2020

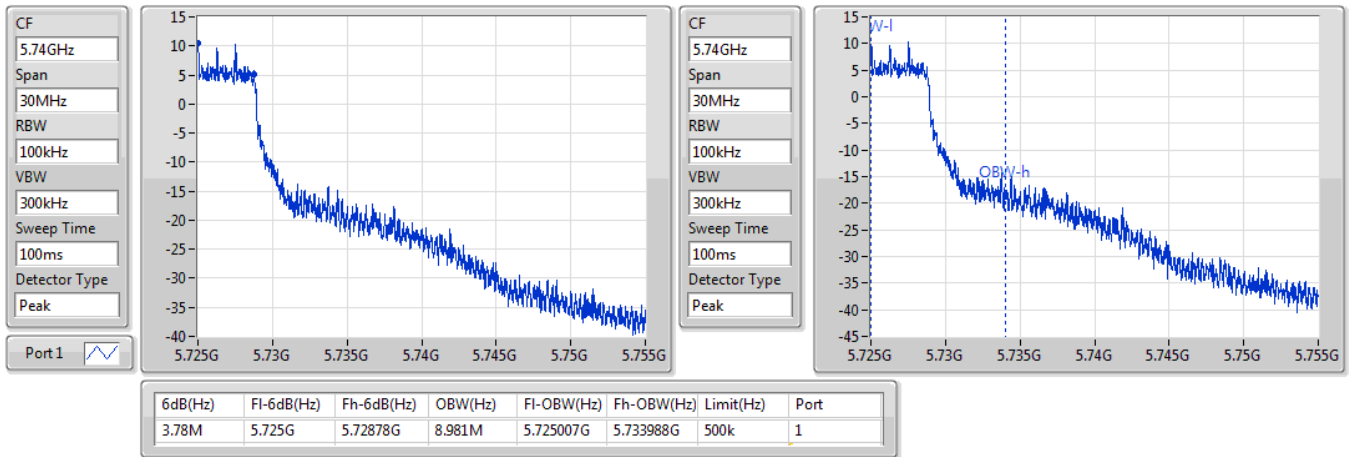


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

05/02/2020

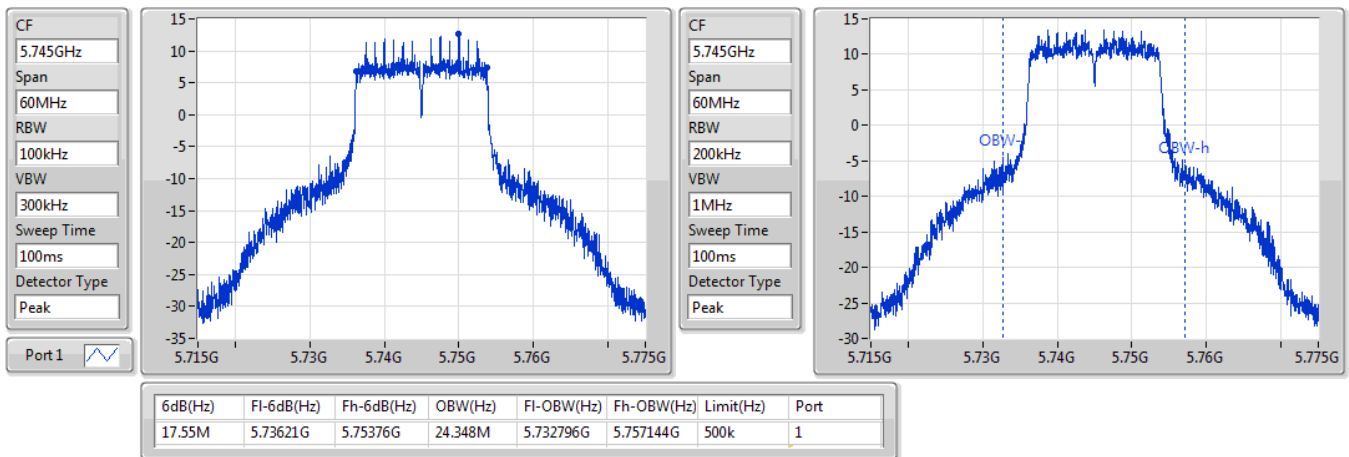


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5745MHz

05/02/2020

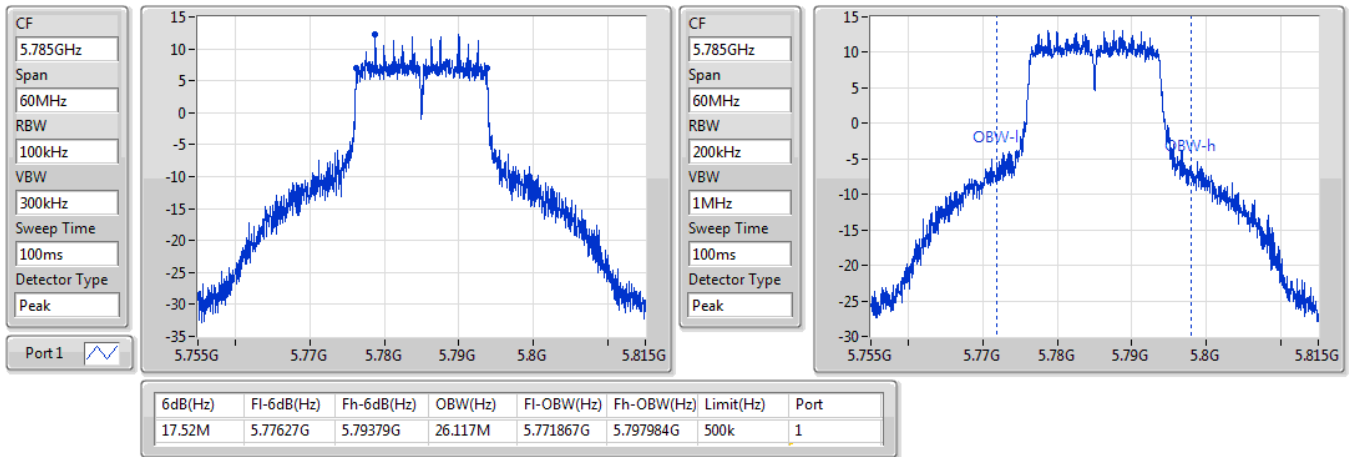


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5785MHz

05/02/2020

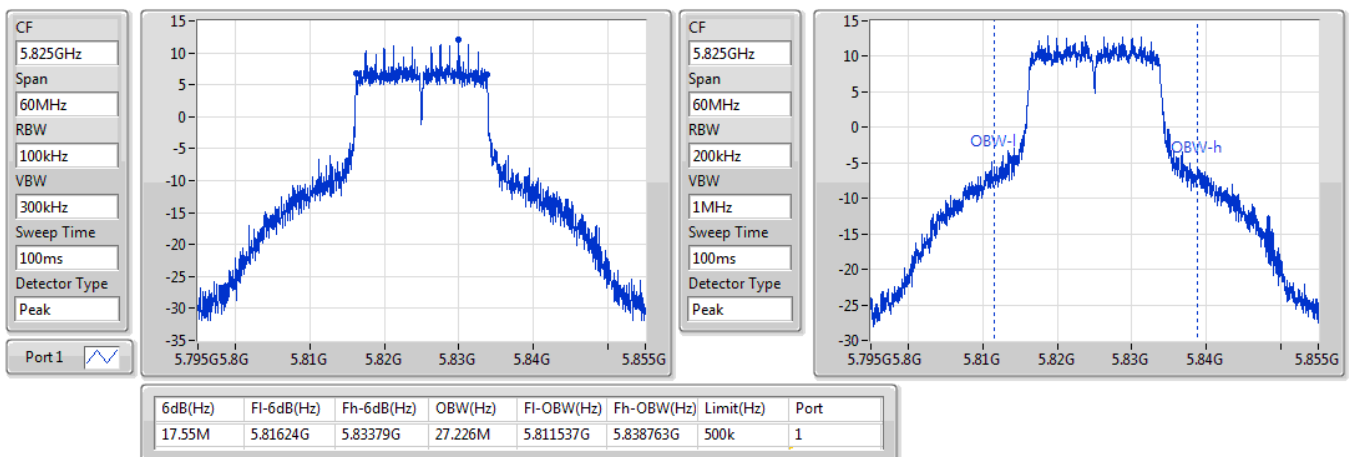


802.11ac VHT20_Nss1,(MCS0)_1TX

EBW

5825MHz

05/02/2020

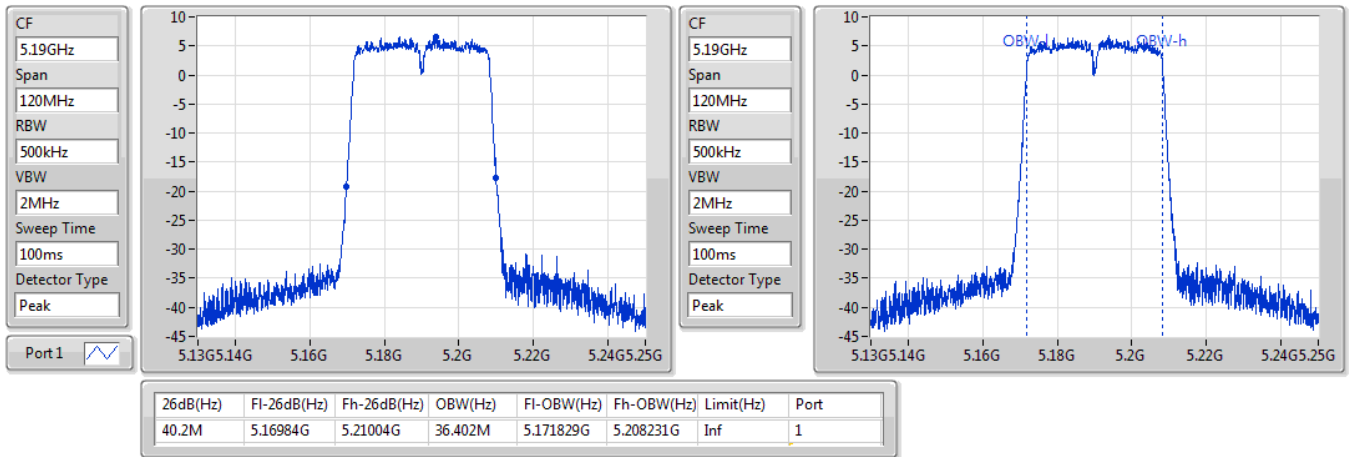


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5190MHz

06/02/2020

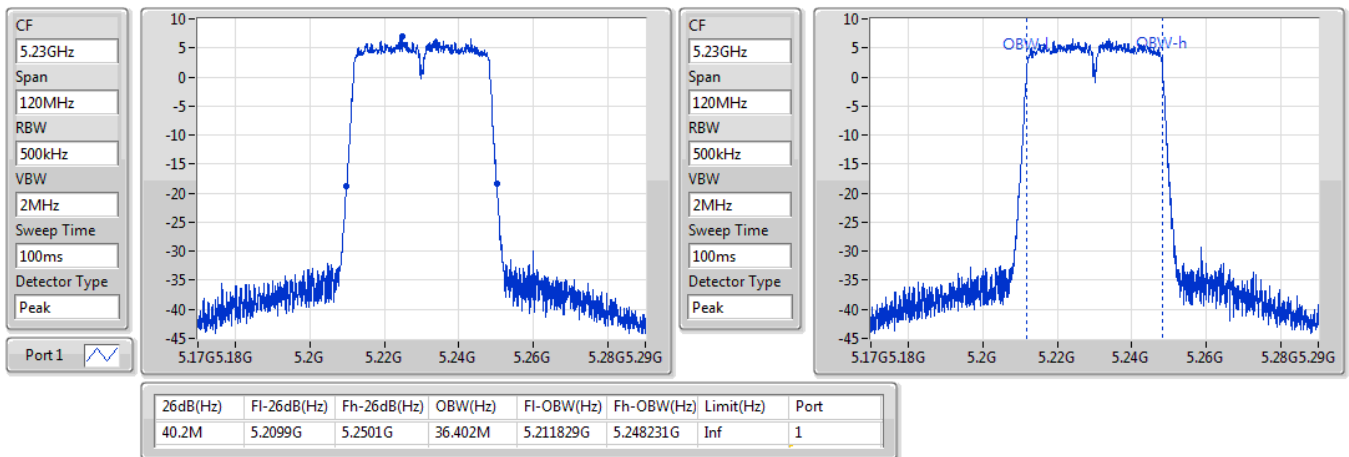


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5230MHz

06/02/2020

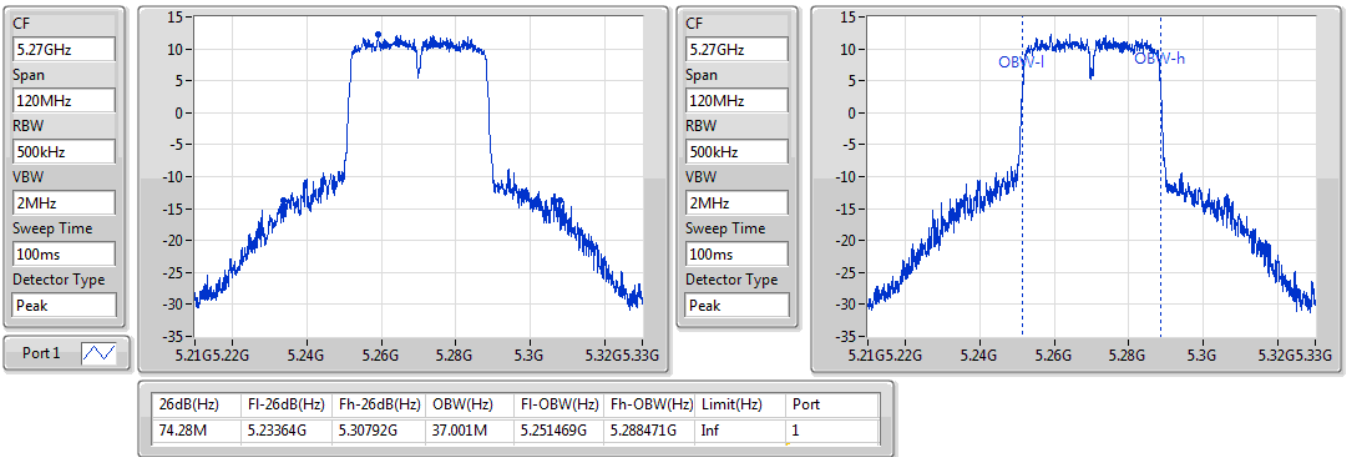


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5270MHz

05/02/2020

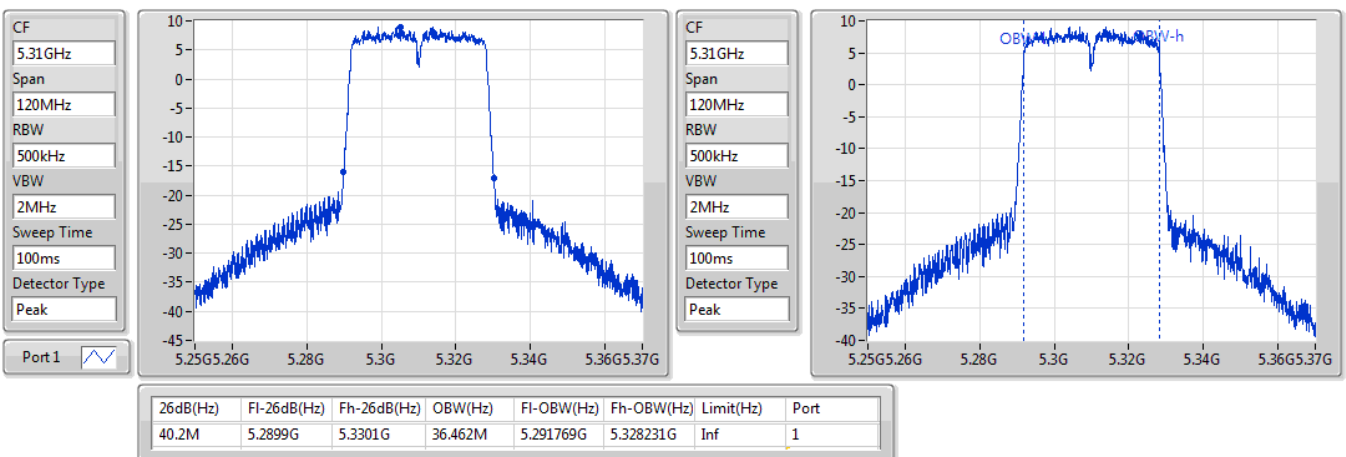


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5310MHz

05/02/2020

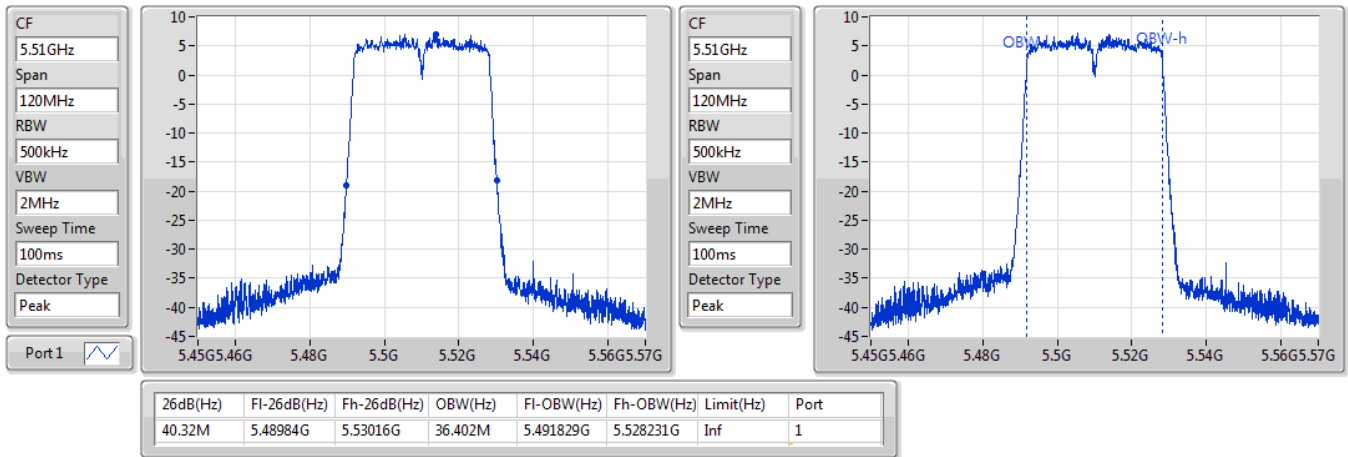


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5510MHz

05/02/2020

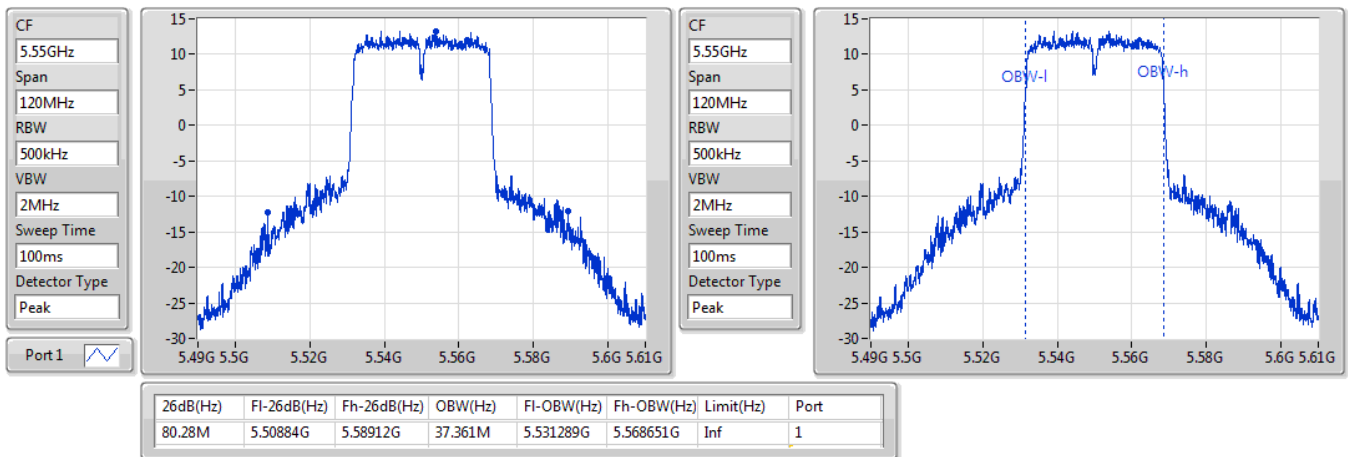


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5550MHz

05/02/2020

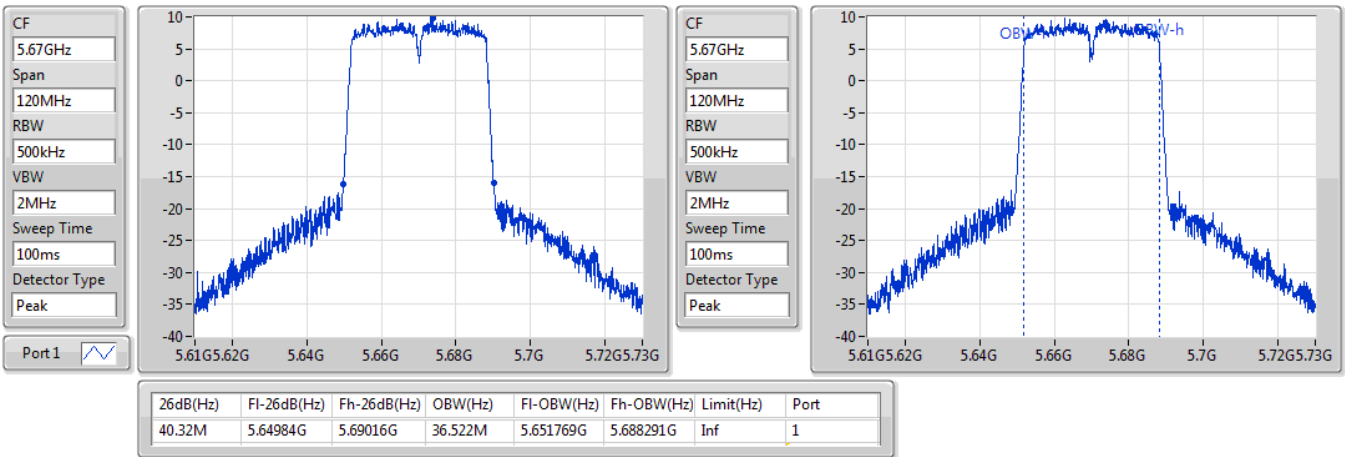


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5670MHz

05/02/2020

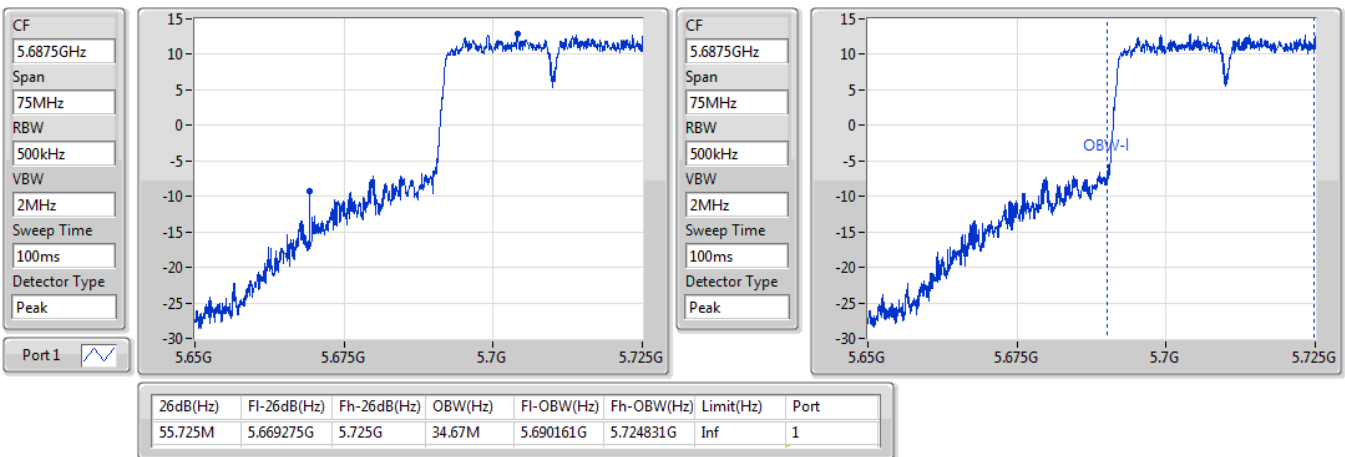


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5710MHz Straddle 5.47-5.725GHz

05/02/2020

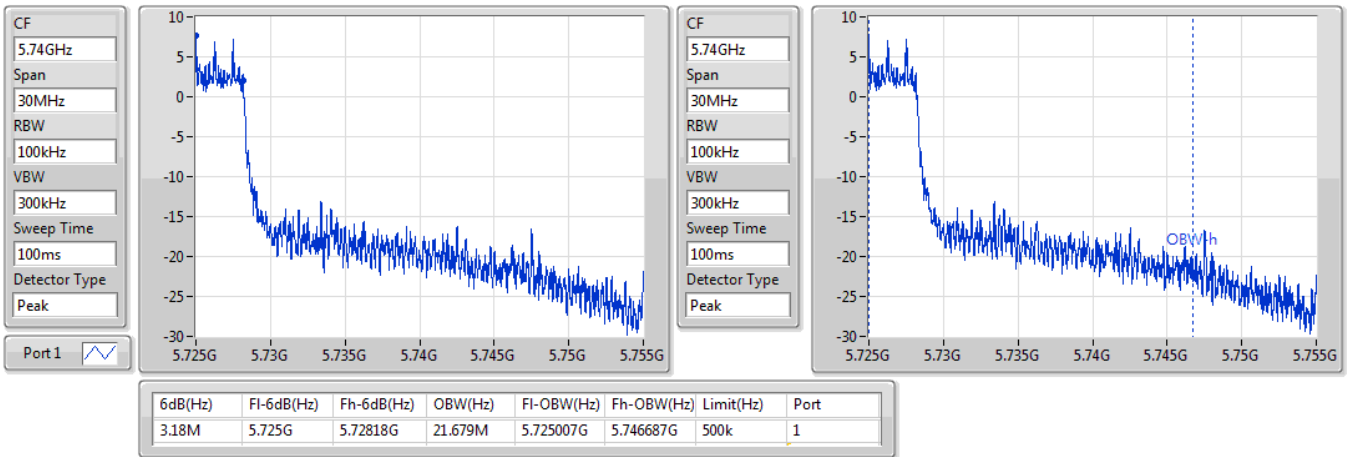


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5710MHz Straddle 5.725-5.85GHz

05/02/2020

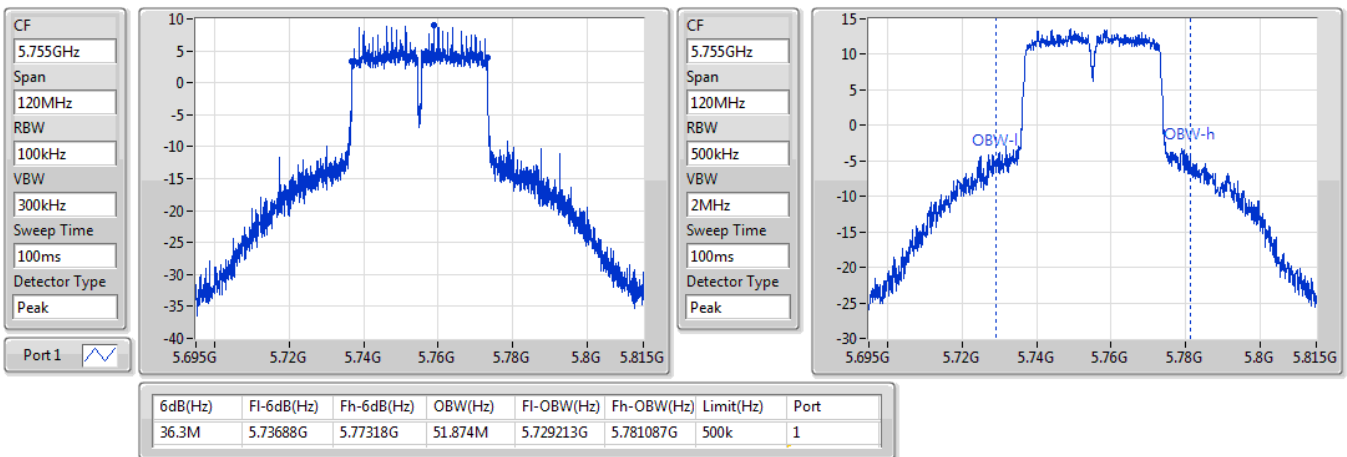


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5755MHz

05/02/2020

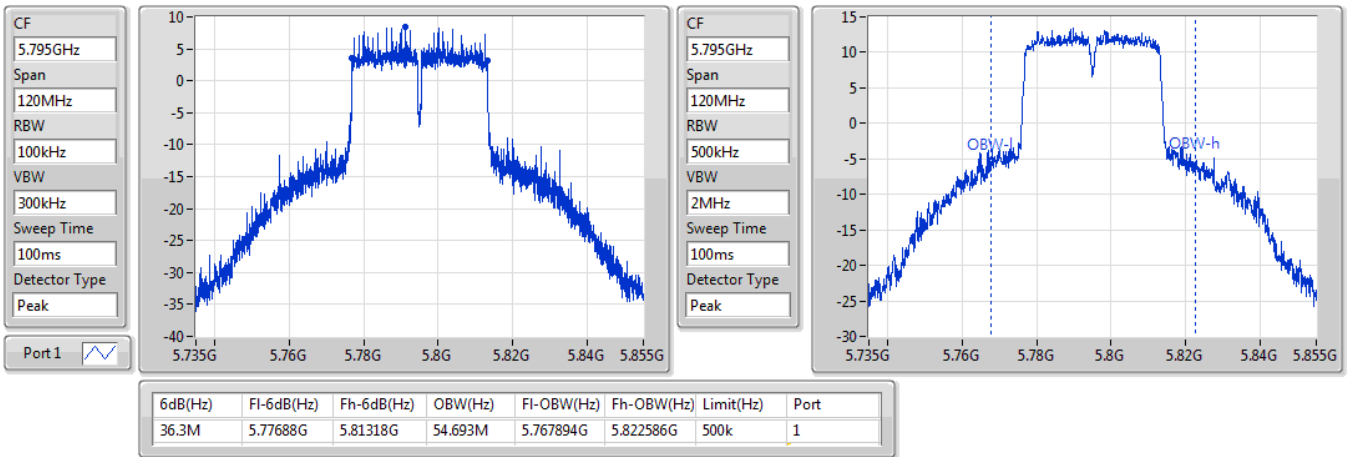


802.11ac VHT40_Nss1,(MCS0)_1TX

EBW

5795MHz

05/02/2020

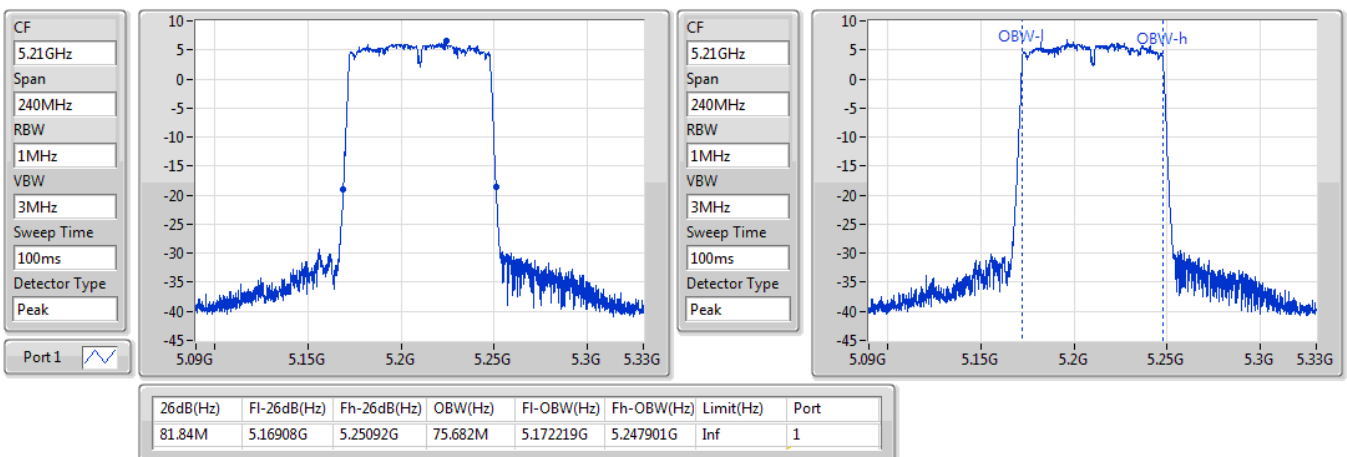


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5210MHz

06/02/2020

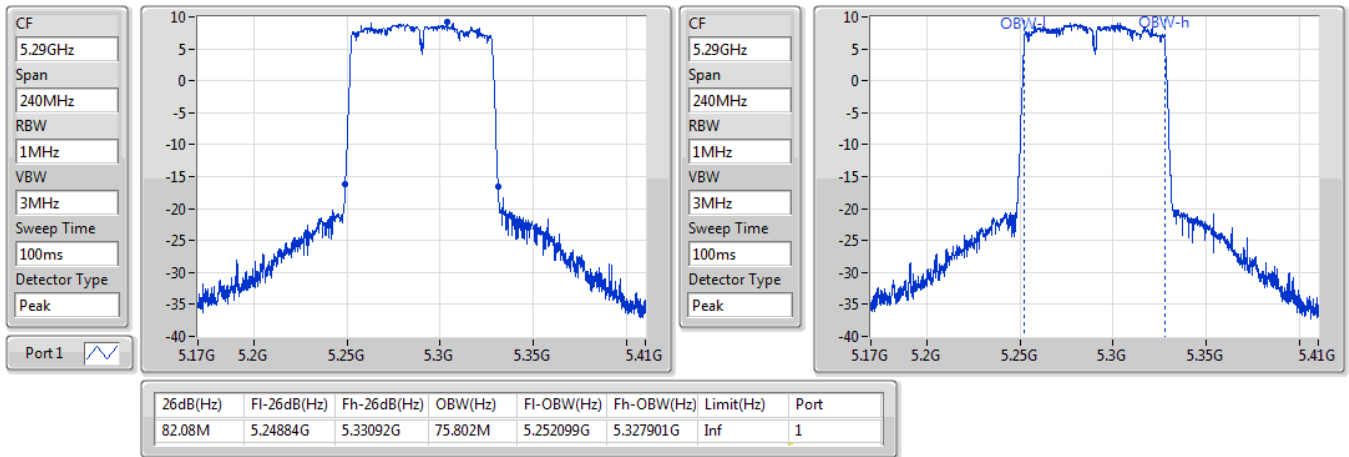


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5290MHz

05/02/2020

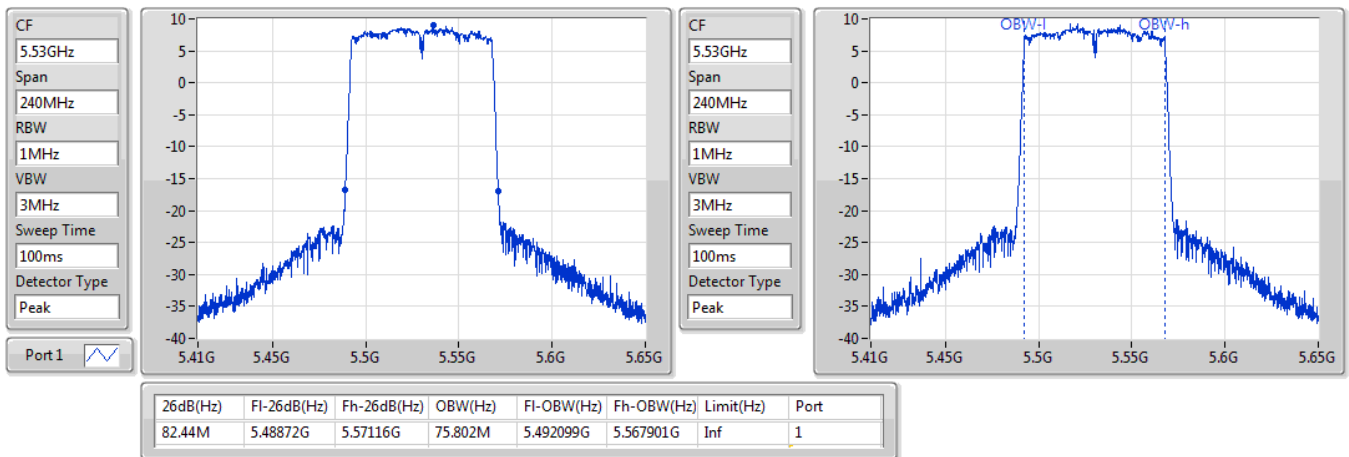


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5530MHz

05/02/2020

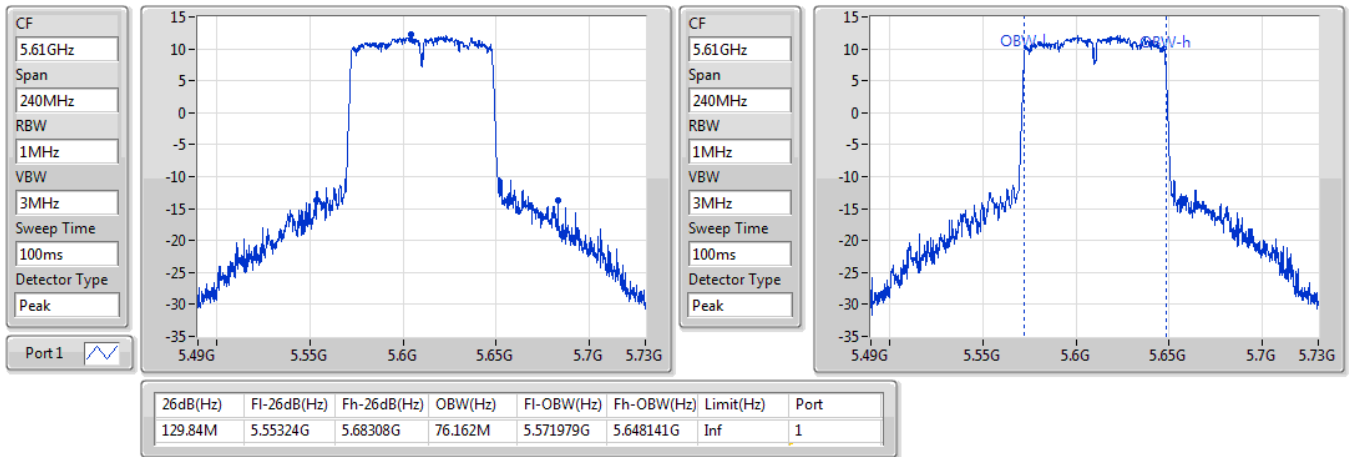


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5610MHz

05/02/2020

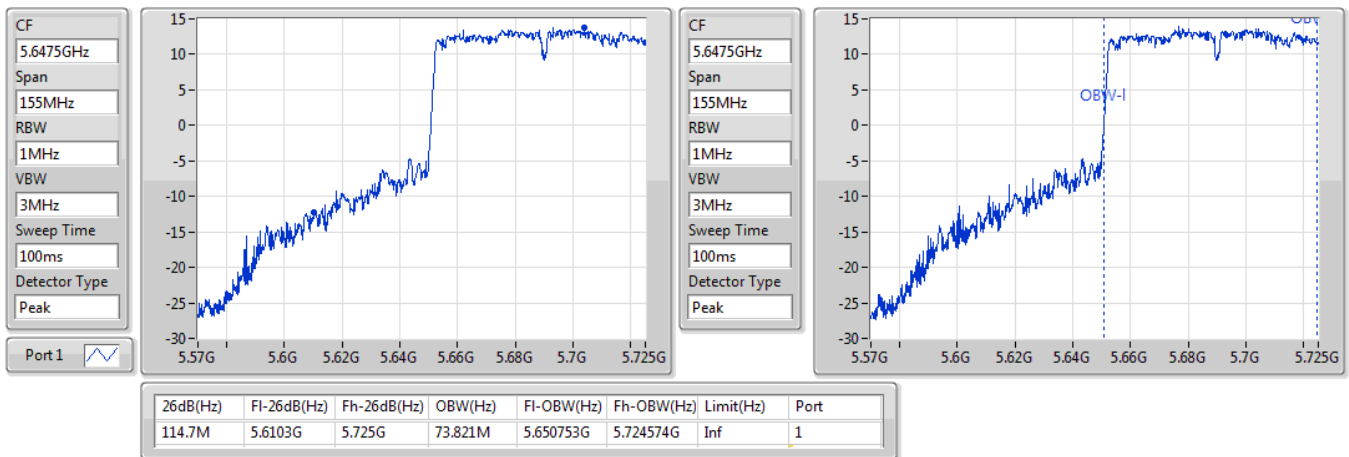


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.47-5.725GHz

05/02/2020

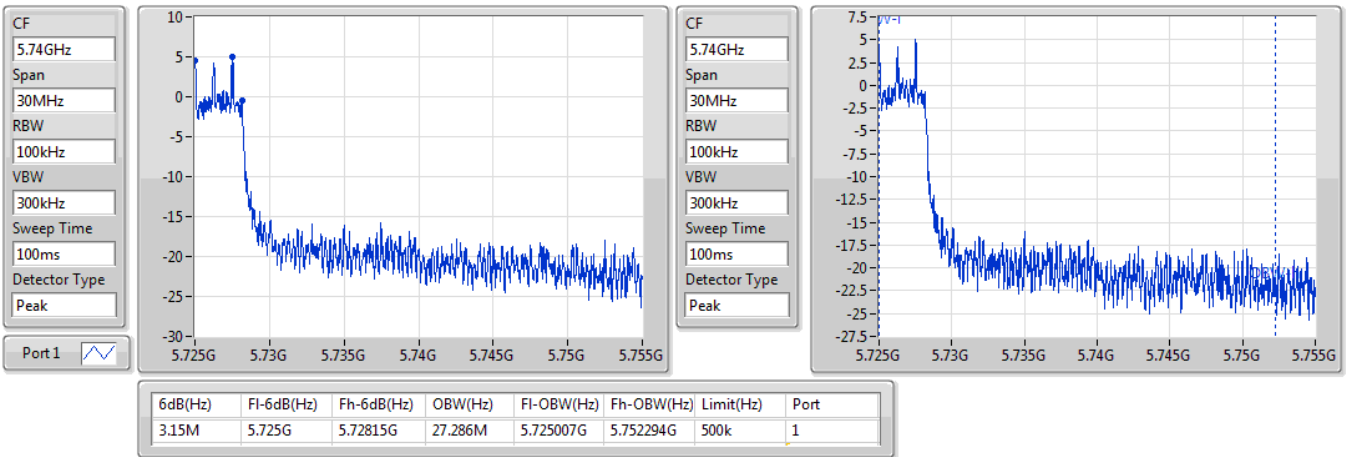


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5690MHz Straddle 5.725-5.85GHz

05/02/2020

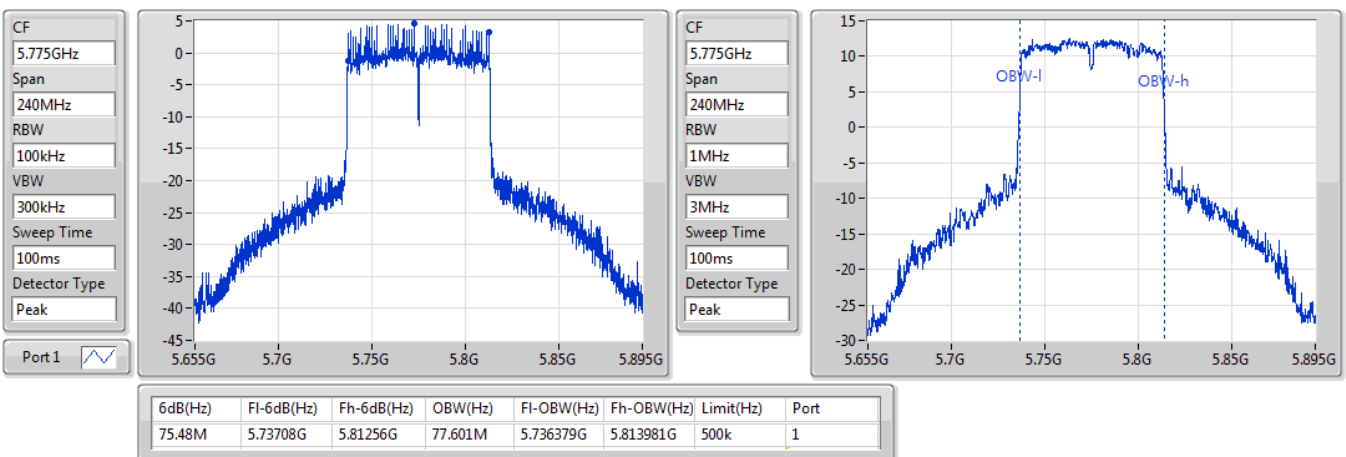


802.11ac VHT80_Nss1,(MCS0)_1TX

EBW

5775MHz

05/02/2020

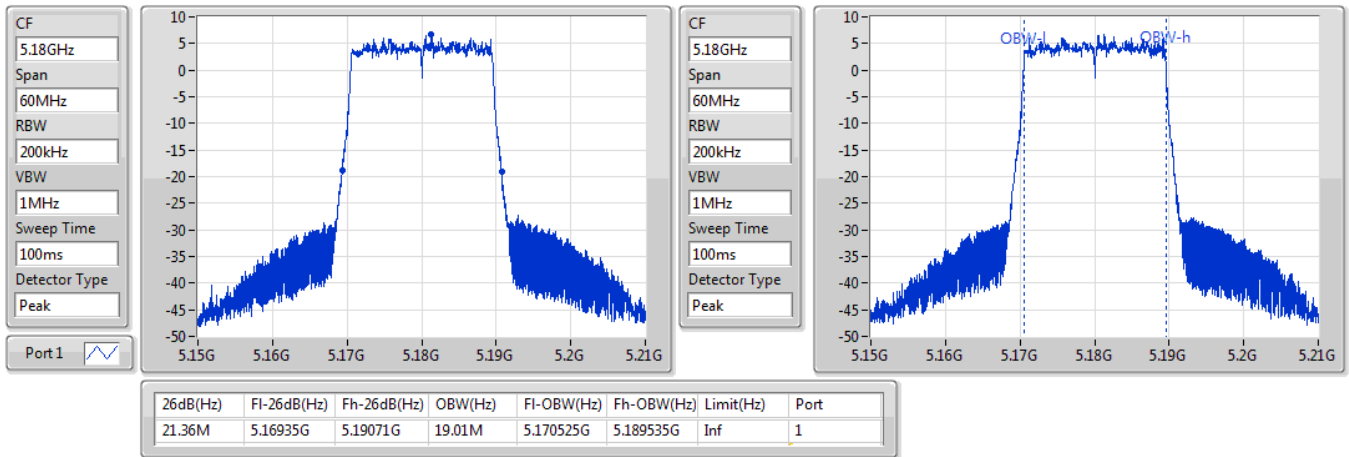


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5180MHz

06/02/2020

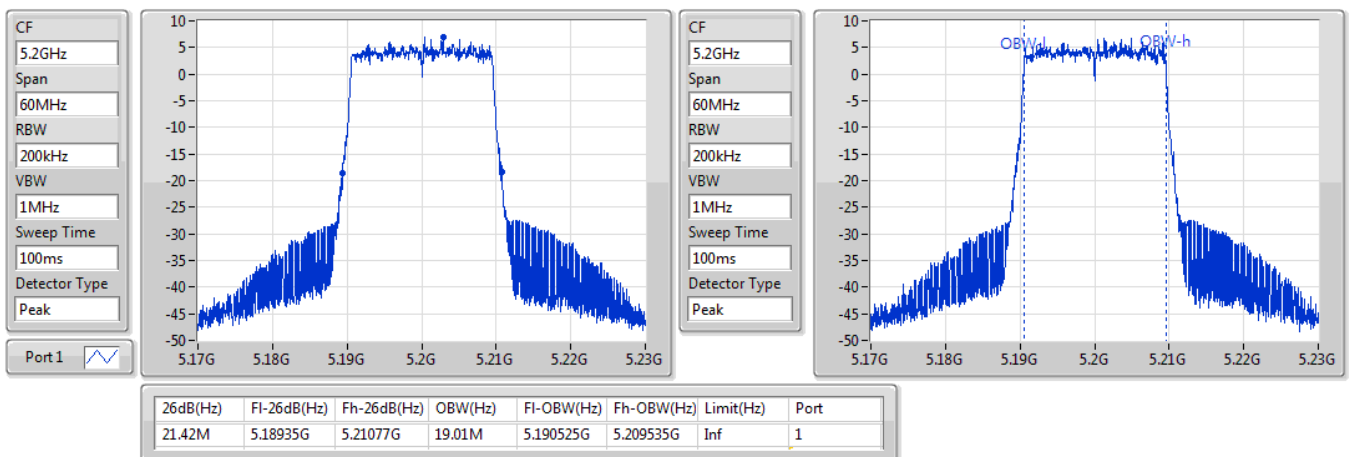


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

06/02/2020

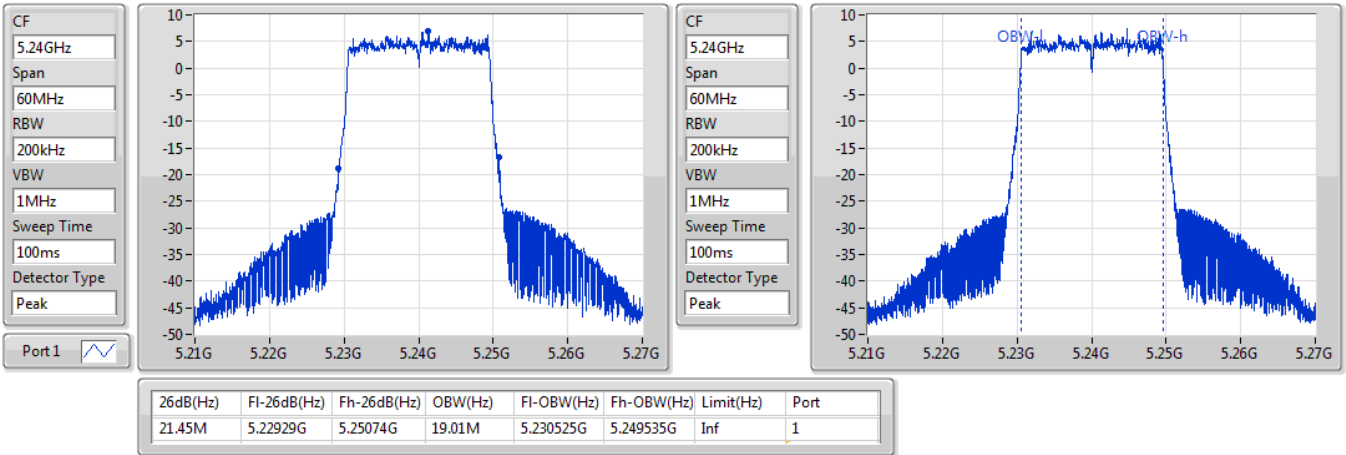


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5240MHz

06/02/2020

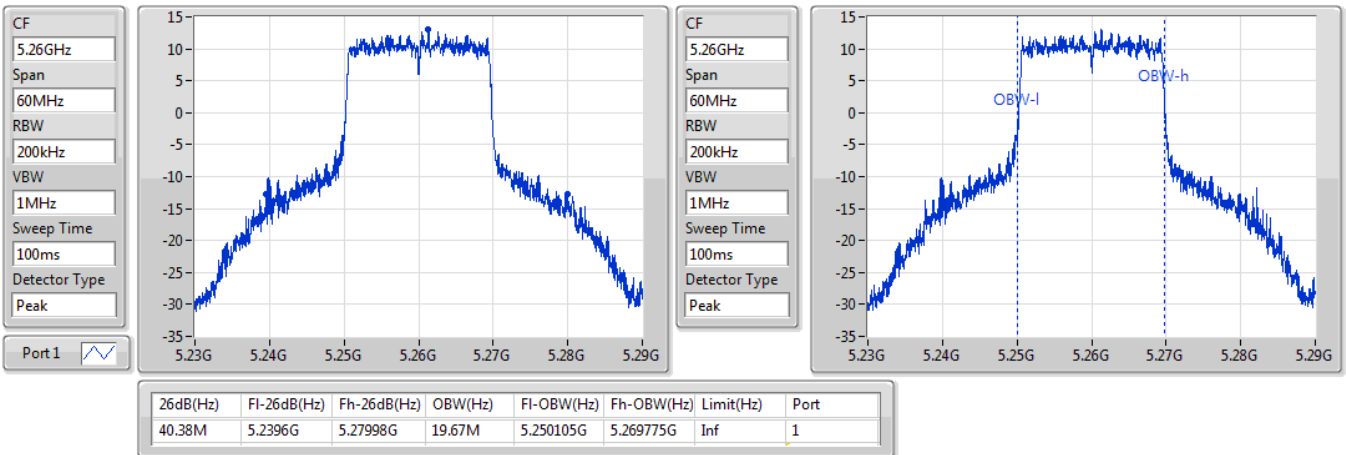


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5260MHz

04/02/2020

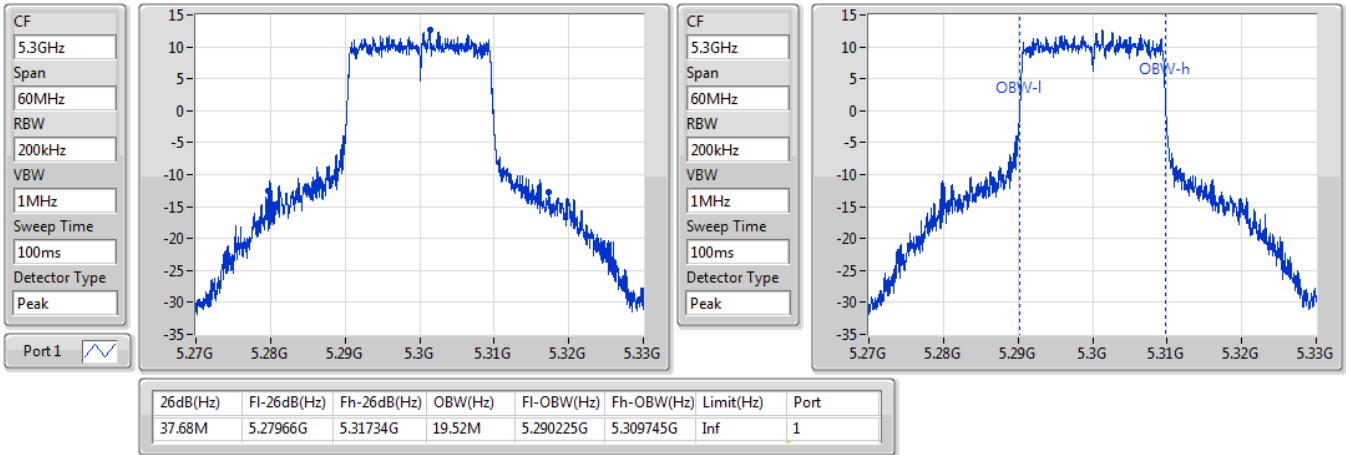


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5300MHz

04/02/2020

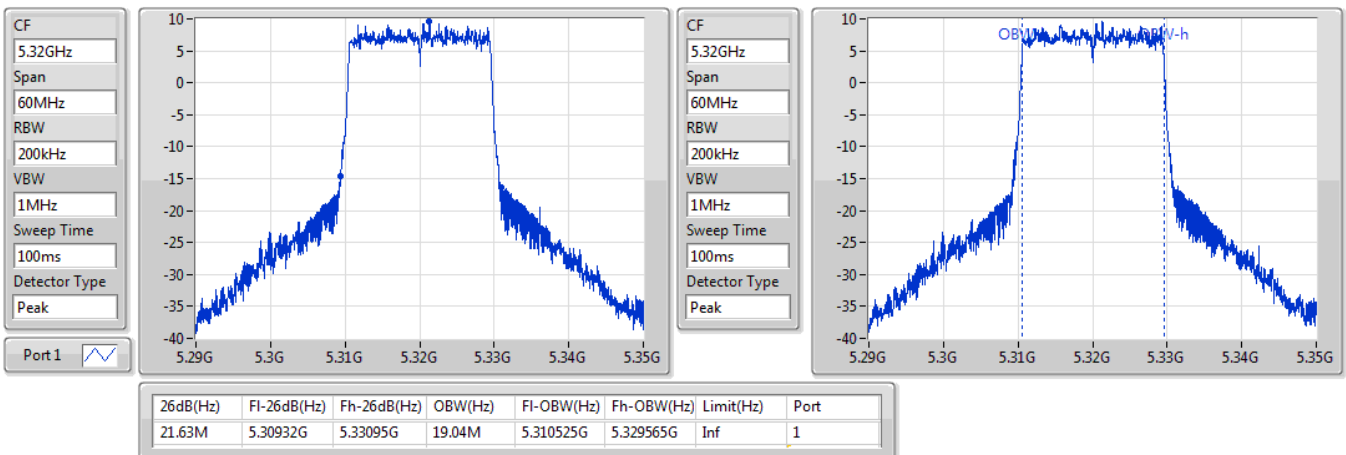


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5320MHz

04/02/2020

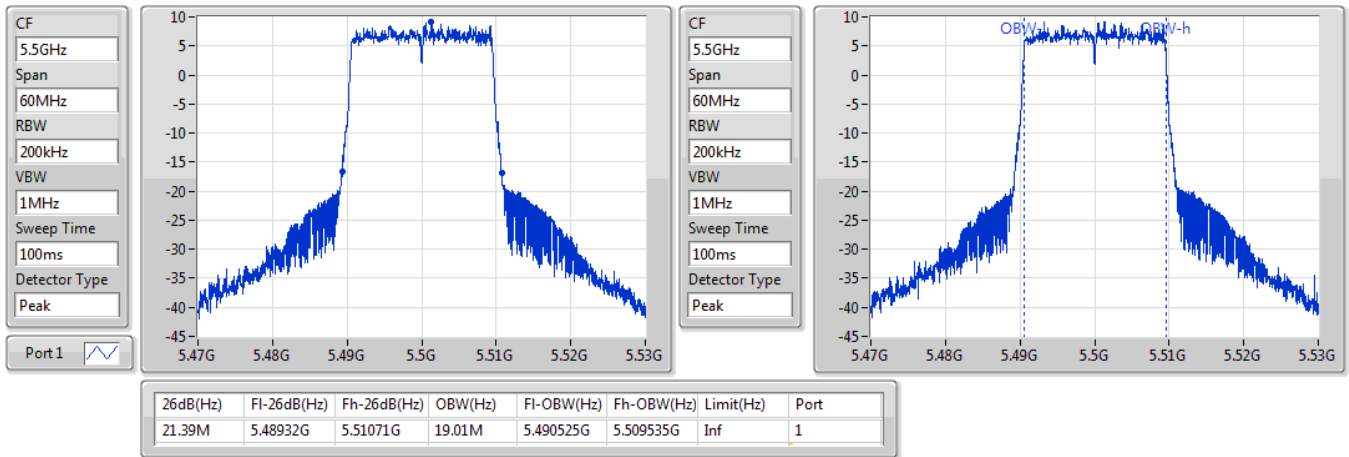


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5500MHz

05/02/2020

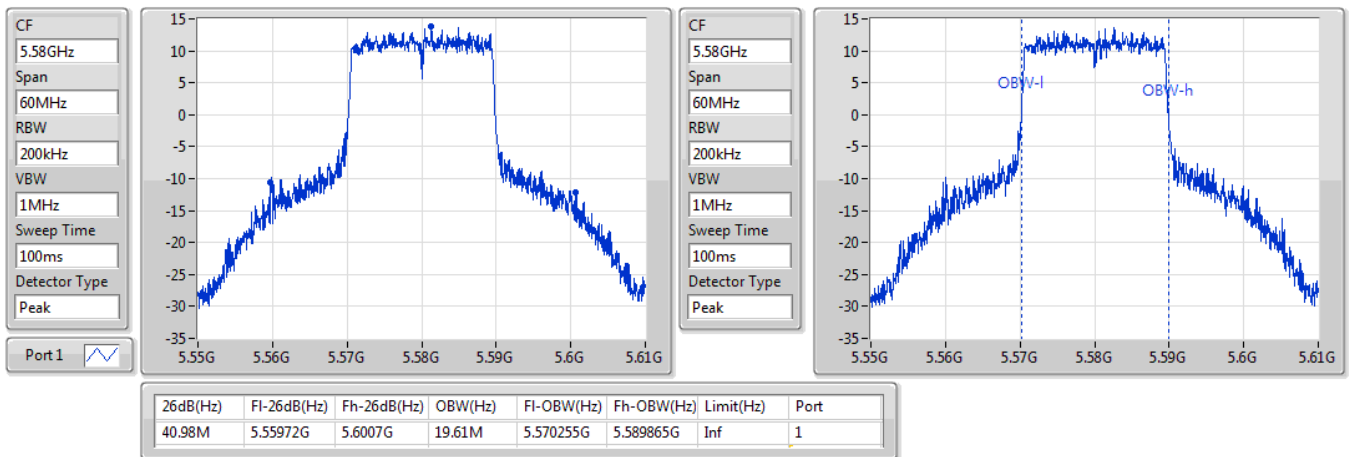


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5580MHz

05/02/2020

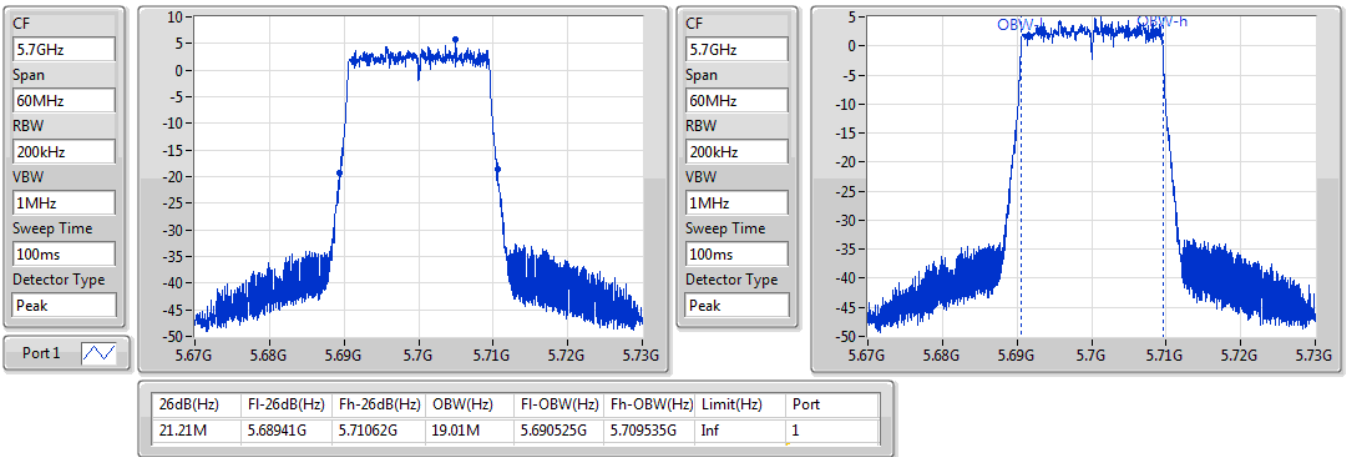


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5700MHz

05/02/2020

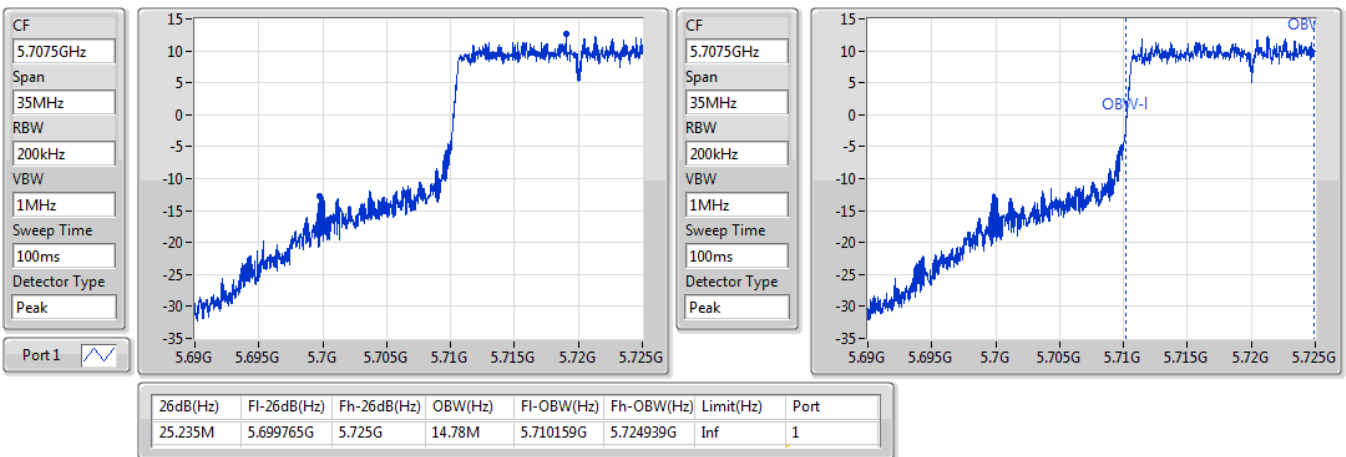


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5720MHz Straddle 5.47-5.725GHz

05/02/2020

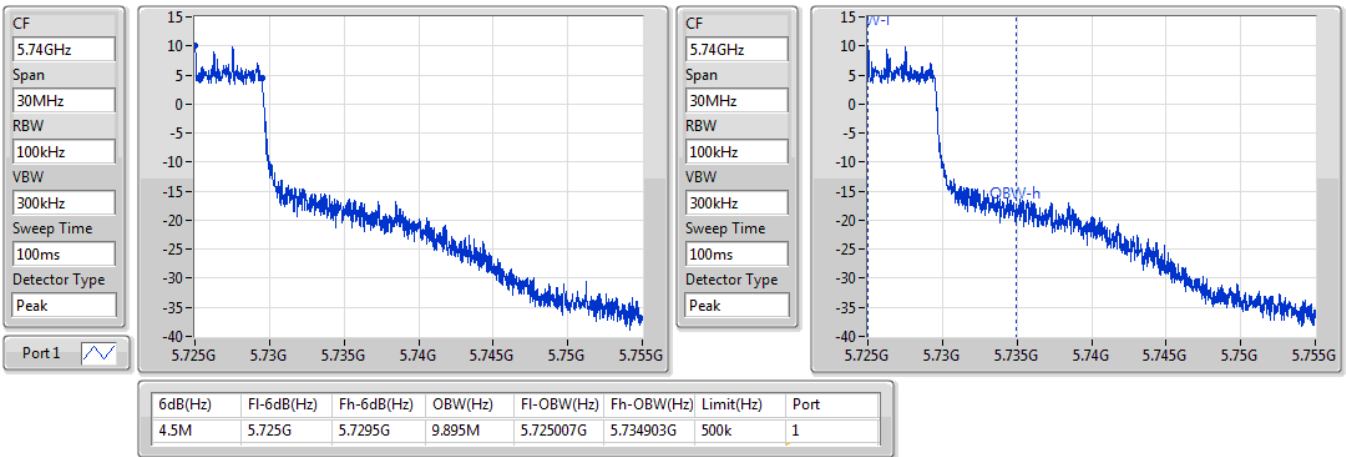


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5720MHz Straddle 5.725-5.85GHz

05/02/2020



802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

05/02/2020

