

FCC Radio Test Report

FCC ID : LDKC11312378
Contains FCC ID : RI7LM960
Equipment : C1131
Brand Name : Cisco
Model Name : C1131X-8PLTEPWB, C1131-8PLTEPWB,
C1131-8PWB, C1131X-8PWB
Applicant : Cisco Systems Inc
125 West Tasman Drive , San Jose, CA 95134, USA.
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134, USA.
Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 23, 2021, and testing was started from Jul. 23, 2021 and completed on Sep. 02, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua 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 test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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[illegible]

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

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

Reviewed by: Ben Tseng

Report Producer: Jenny Yang

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	a20	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	a40	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	a80	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]
5150-5250	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_2T1S**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	11a20	20	2TX
5.25-5.35GHz	11a20	20	2TX
5.47-5.725GHz	11a20	20	2TX
5.725-5.85GHz	11a20	20	2TX
5.15-5.25GHz	11a40	40	2TX
5.25-5.35GHz	11a40	40	2TX
5.47-5.725GHz	11a40	40	2TX
5.725-5.85GHz	11a40	40	2TX
5.15-5.25GHz	11a80	80	2TX
5.25-5.35GHz	11a80	80	2TX
5.47-5.725GHz	11a80	80	2TX
5.725-5.85GHz	11a80	80	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



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11ax HEW80	80	2TX

Non-Beamforming_2T2S

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

Beamforming_2T1S

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	11a20,BF	20	2TX
5.25-5.35GHz	11a20,BF	20	2TX
5.47-5.725GHz	11a20,BF	20	2TX
5.725-5.85GHz	11a20,BF	20	2TX
5.15-5.25GHz	11a40,BF	40	2TX
5.25-5.35GHz	11a40,BF	40	2TX
5.47-5.725GHz	11a40,BF	40	2TX
5.725-5.85GHz	11a40,BF	40	2TX
5.15-5.25GHz	11a80,BF	80	2TX
5.25-5.35GHz	11a80,BF	80	2TX
5.47-5.725GHz	11a80,BF	80	2TX
5.725-5.85GHz	11a80,BF	80	2TX



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.



1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	M.gear	C107-511917-A	PIFA	I-PEX
2	M.gear	C107-511917-A	PIFA	I-PEX

Ant.	Port	Gain (dBi)	
		2.4G	5G
1	1	2	4
2	2	2	4

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Power Adapter		
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
Resource Unit (802.11ax)	☒	Full RU	☐ Partial RU
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 Mode Test Duty Cycle

Non-Beamforming_2T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
11a20_Nss1,(6Mbps)_2TX	0.99	0.04	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
11a40_Nss1,(6Mbps)_2TX	0.988	0.05	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
11a80_Nss1,(6Mbps)_2TX	0.99	0.04	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20_Nss1,(MCS0)_2TX	0.988	0.05	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40_Nss1,(MCS0)_2TX	0.977	0.1	1.093m	1k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.954	0.2	528.75u	3k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.986	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40_Nss1,(MCS0)_2TX	0.972	0.12	885.625u	3k
802.11ax HEW80_Nss1,(MCS0)_2TX	0.947	0.24	454.375u	3k

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

Non-Beamforming_2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20_Nss2,(MCS0)_2TX	0.979	0.09	1.136m	1k
802.11ac VHT40_Nss2,(MCS0)_2TX	0.956	0.2	572.5u	3k
802.11ac VHT80_Nss2,(MCS0)_2TX	0.917	0.38	288.438u	10k
802.11ax HEW20_Nss2,(MCS0)_2TX	0.971	0.13	892.5u	3k
802.11ax HEW40_Nss2,(MCS0)_2TX	0.948	0.23	480.313u	3k
802.11ax HEW80_Nss2,(MCS0)_2TX	0.909	0.41	262.813u	10k

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

Beamforming_2T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
11a20_Nss1,(6Mbps)_2TX	0.99	0.04	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
11a40_Nss1,(6Mbps)_2TX	0.988	0.05	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
11a80_Nss1,(6Mbps)_2TX	0.99	0.04	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20_Nss1,(MCS0)_2TX	0.988	0.05	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40_Nss1,(MCS0)_2TX	0.977	0.1	1.093m	1k
802.11ac VHT80_Nss1,(MCS0)_2TX	0.954	0.2	528.75u	3k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.986	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40_Nss1,(MCS0)_2TX	0.972	0.12	885.625u	3k
802.11ax HEW80_Nss1,(MCS0)_2TX	0.947	0.24	454.375u	3k

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

1.1.5 Table for Multiple Listing

Model	Description	Pluggable LTE module	DDR4
C1131X-8PLTEPWB	8-Port Pluggable 8GB	Yes	8GB
C1131-8PLTEPWB	8-Port Pluggable 4GB	Yes	4GB
C1131X-8PWB	8-Port 8GB	No	8GB
C1131-8PWB	8-Port 4GB	No	4GB

From the above models, Model: C1131X-8PLTEPWB was selected as representative model for the test and its data was recorded in this report.

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 789033 D02 v02r01

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Billy Wang	22.8~23.4°C / 58~60%	06/Aug/2021~07/Aug/2021
RF Conducted	TH01-HY	Barry Hsiao	25.3~26.9°C / 50~60%	25/Jul/2021~05/Aug/2021
Radiated	03CH02-HY	Tony Chang	21.1~22.7°C / 57~60%	23/Jul/2021~27/Jul/2021
Radiated	03CH03-HY	Daniel Lin	22.6~23.5°C / 58~66%	02/Sep/2021
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

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 Channel Mode

Test Software Version	Putty
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Non-Beamforming_2T1S

Mode	Power Setting
11a20_Nss1,(6Mbps)_2TX	-
5180MHz	17
5200MHz	17
5240MHz	17
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	16
5580MHz	17
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
5745MHz	17
5785MHz	17
5825MHz	17
11a40_Nss1,(6Mbps)_2TX	-
5190MHz	14
5230MHz	17
5270MHz	17
5310MHz	15
5510MHz	15
5550MHz	17
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
5755MHz	17
5795MHz	17
11a80_Nss1,(6Mbps)_2TX	-
5210MHz	14



Mode	Power Setting
5290MHz	15
5530MHz	14
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
5775MHz	17
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	16
5200MHz	17
5240MHz	17
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	17
5580MHz	17
5700MHz	15
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
5745MHz	17
5785MHz	17
5825MHz	17
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	14
5230MHz	17
5270MHz	17
5310MHz	15
5510MHz	16
5550MHz	17
5670MHz	16
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
5755MHz	17
5795MHz	17
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	14
5290MHz	15



Mode	Power Setting
5530MHz	16
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
5775MHz	17
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	16
5200MHz	17
5240MHz	17
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	17
5580MHz	17
5700MHz	15
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
5745MHz	17
5785MHz	17
5825MHz	17
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	14
5230MHz	17
5270MHz	17
5310MHz	15
5510MHz	16
5550MHz	17
5670MHz	16
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
5755MHz	17
5795MHz	17
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	14
5290MHz	15
5530MHz	16



Mode	Power Setting
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
5775MHz	17

Non-Beamforming_2T2S

Mode	Power Setting
802.11ac VHT20_Nss2,(MCS0)_2TX	-
5180MHz	17
5700MHz	16
802.11ac VHT40_Nss2,(MCS0)_2TX	-
5190MHz	16
5310MHz	17
5510MHz	17
5670MHz	17
802.11ac VHT80_Nss2,(MCS0)_2TX	-
5210MHz	16
5290MHz	17
5530MHz	17
802.11ax HEW20_Nss2,(MCS0)_2TX	-
5180MHz	17
5700MHz	16
802.11ax HEW40_Nss2,(MCS0)_2TX	-
5190MHz	16
5310MHz	17
5510MHz	17
5670MHz	17
802.11ax HEW80_Nss2,(MCS0)_2TX	-
5210MHz	16
5290MHz	17
5530MHz	17

**Beamforming_2T1S**

Mode	Power Setting
11a20,BF_Nss1,(6Mbps)_2TX	-
5180MHz	17
5200MHz	17
5240MHz	17
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	16
5580MHz	17
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
5745MHz	17
5785MHz	17
5825MHz	17
11a40,BF_Nss1,(6Mbps)_2TX	-
5190MHz	14
5230MHz	17
5270MHz	17
5310MHz	15
5510MHz	15
5550MHz	17
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
5755MHz	17
5795MHz	17
11a80,BF_Nss1,(6Mbps)_2TX	-
5210MHz	14
5290MHz	15
5530MHz	14
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
5775MHz	17



Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	16
5200MHz	17
5240MHz	17
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	17
5580MHz	17
5700MHz	15
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
5745MHz	17
5785MHz	17
5825MHz	17
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	14
5230MHz	17
5270MHz	17
5310MHz	15
5510MHz	16
5550MHz	17
5670MHz	16
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
5755MHz	17
5795MHz	17
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	14
5290MHz	15
5530MHz	16
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
5775MHz	17
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-



Mode	Power Setting
5180MHz	16
5200MHz	17
5240MHz	17
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	17
5580MHz	17
5700MHz	15
5720MHz Straddle 5.47-5.725GHz	17
5720MHz Straddle 5.725-5.85GHz	17
5745MHz	17
5785MHz	17
5825MHz	17
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	14
5230MHz	17
5270MHz	17
5310MHz	15
5510MHz	16
5550MHz	17
5670MHz	16
5710MHz Straddle 5.47-5.725GHz	17
5710MHz Straddle 5.725-5.85GHz	17
5755MHz	17
5795MHz	17
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	14
5290MHz	15
5530MHz	16
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	17
5690MHz Straddle 5.725-5.85GHz	17
5775MHz	17

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter mode

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	2.4GHz WLAN+5GHz WLAN
Refer to Appendix F for Radiated Emission Co-location.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	2.4GHz WLAN+5GHz WLAN
2	2.4GHz WLAN+5GHz WLAN+ LTE
Refer to Sporton Test Report No.: FA172003 for Co-location RF Exposure Evaluation.	

2.3 Accessories

Accessories				
AC Adapter	Brand Name	DELTA	Model Name	ADP-150BR B
	Manufacturer	-	SN	DAB2502X0QP
	Power Rating	I/P: 100 - 240 Vac, 2.5 A, O/P: 12 - 53.5Vdc, 6-1.55 A		

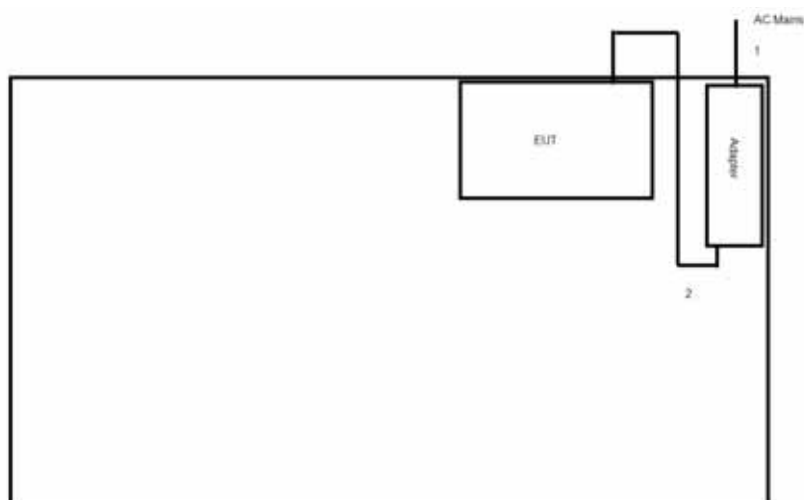
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

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

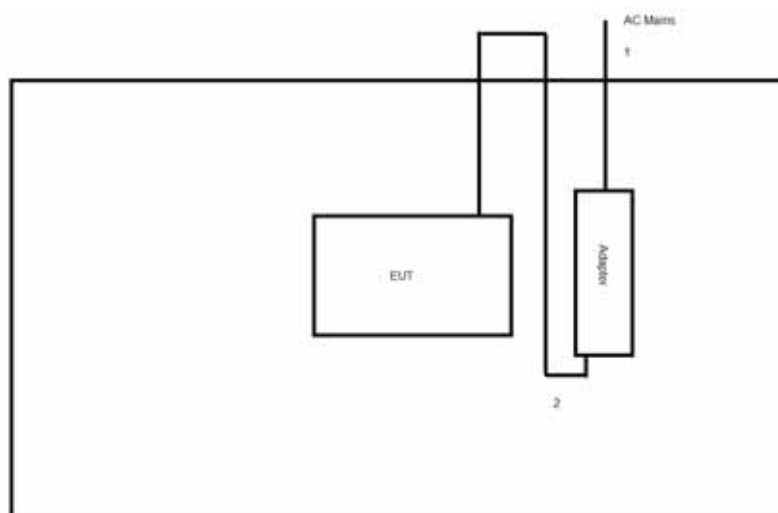
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



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

Test Setup Diagram - Radiated Test



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

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

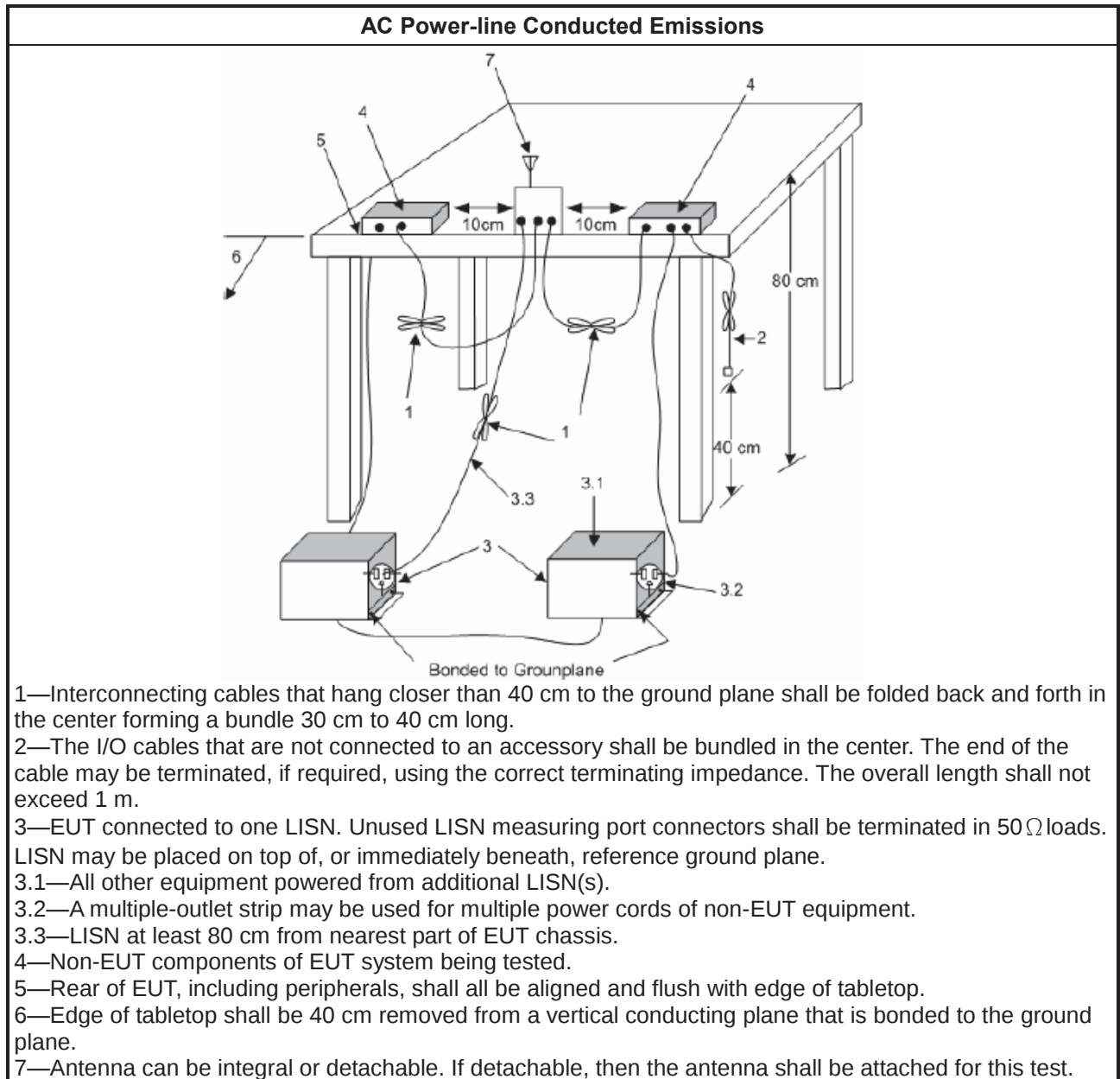
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 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.

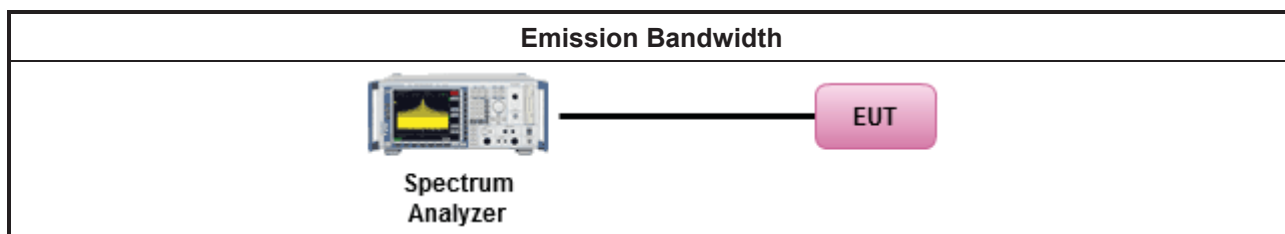
3.2.2 Measuring Instruments

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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒	For the 5.725-5.85 GHz band:
	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

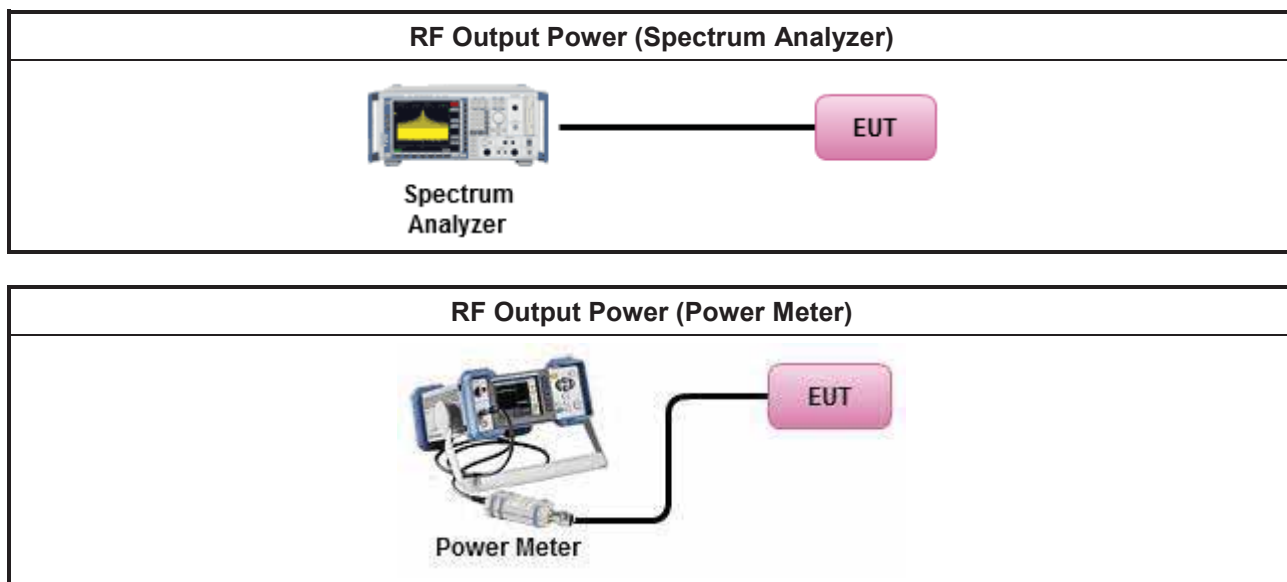
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

3.4.2 Measuring Instruments

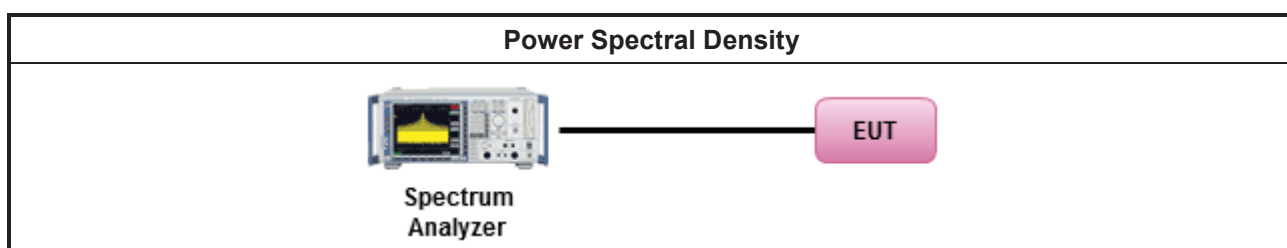
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
☐	Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:
☐	Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
	Duty cycle $\geq 98\%$
☒	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)
☐	For conducted measurement.

Test Method	
	- If the EUT supports multiple transmit chains using options given below: - Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. - If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

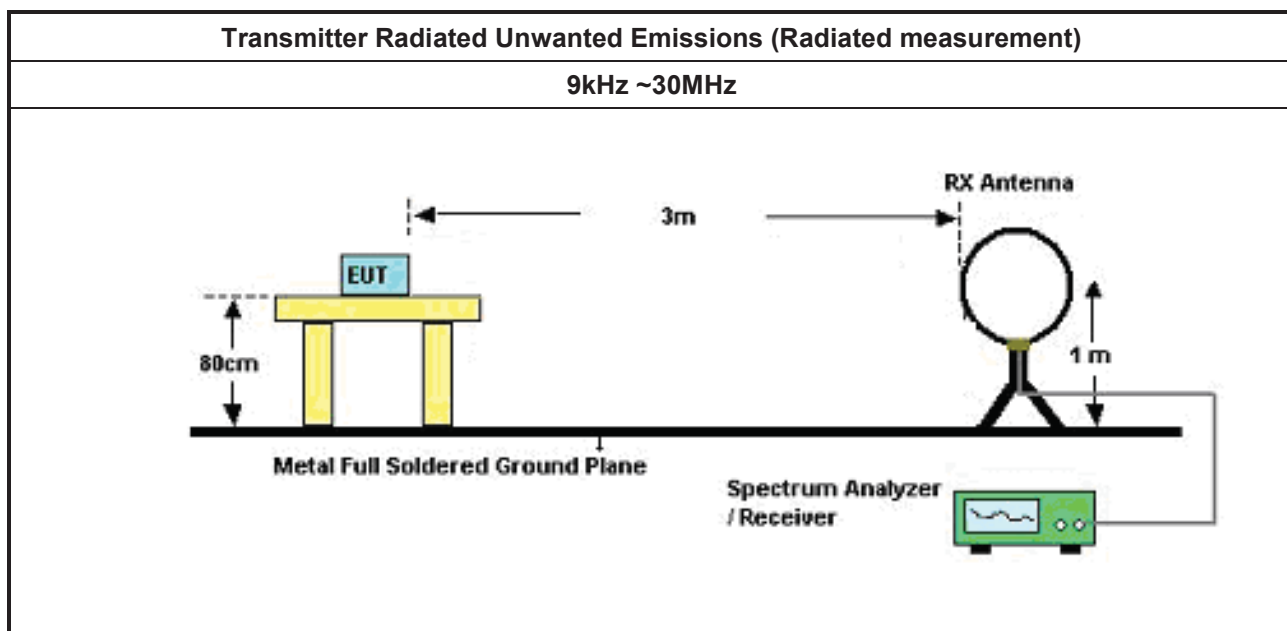
Test Method	
For conducted and cabinet radiation measurement, refer as KDB 789033, clause G)3).	
	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding $10 \log(N)$ if the measurements are made relative to the in-band emissions on the individual outputs.
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add $10 \log(N)$ dB
	For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

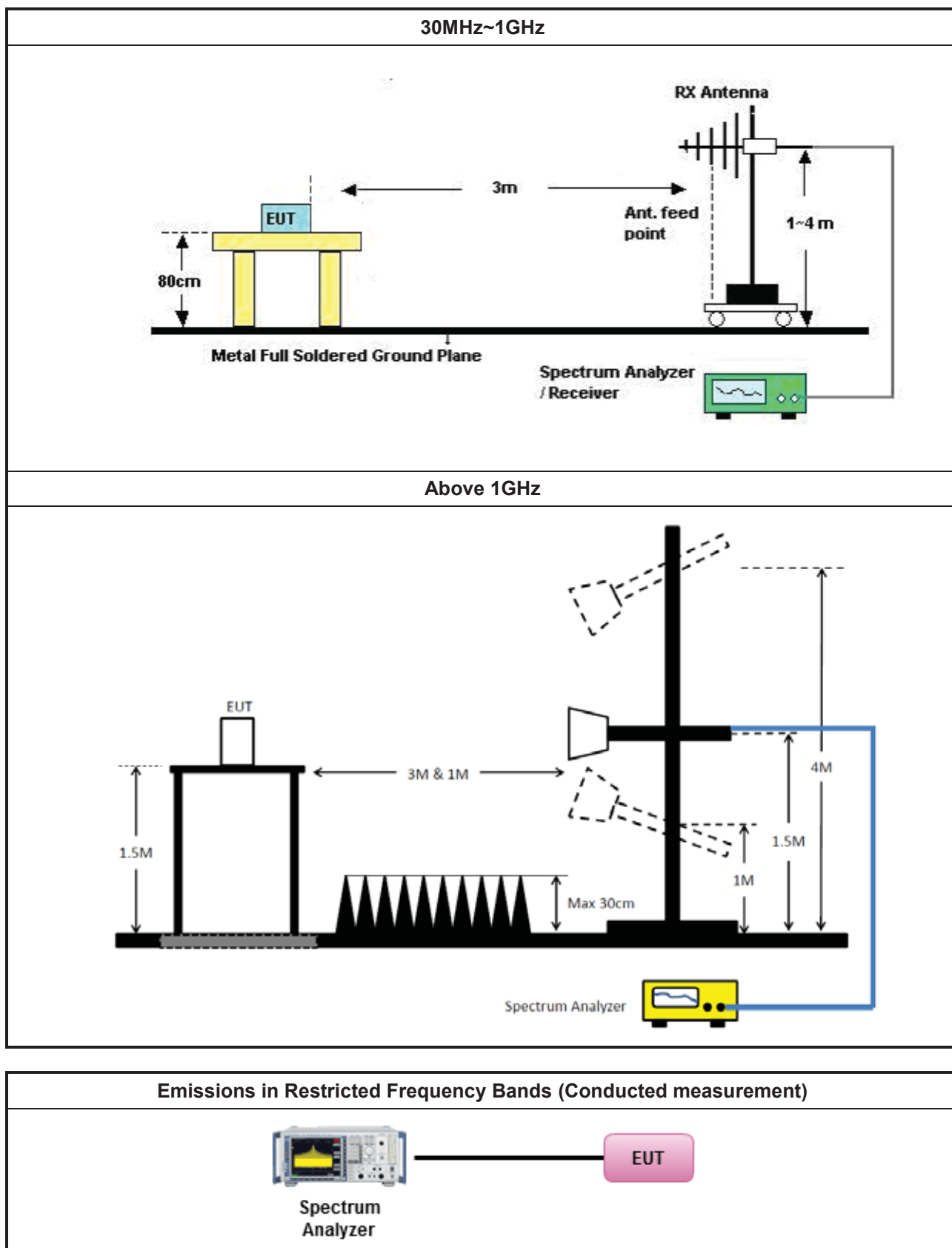
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup







3.5.6 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.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	19/Apr/2021	18/Apr/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Mar/2021	29/Mar/2022
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	23/Feb/2021	22/Feb/2022

**Instrument for Radiated Test (03CH02-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	04/Aug/2020	03/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	23/Oct/2020	22/Oct/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	09/Mar/2021	08/Mar/2022

Instrument for Radiated Test (03CH03-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	03/Aug/2021	02/Aug/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz~26.5GHz	06/Oct/2020	05/Oct/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	24/Mar/2021	23/Mar/2022
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+SN 804300/4	1GHz~40GHz	28/Jul/2021	27/Jul/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	09/Mar/2021	08/Mar/2022



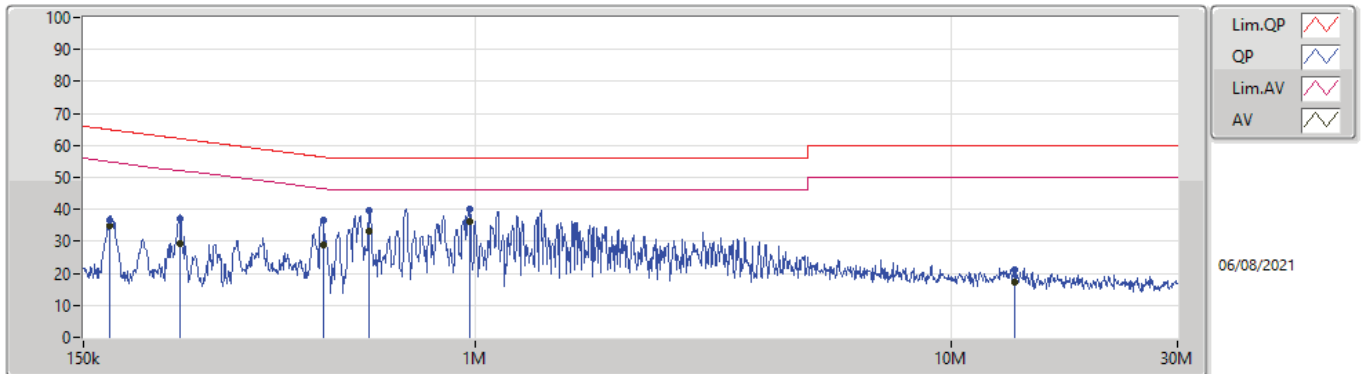
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	975.445k	36.42	46.00	-9.58	Line

**Mode config**

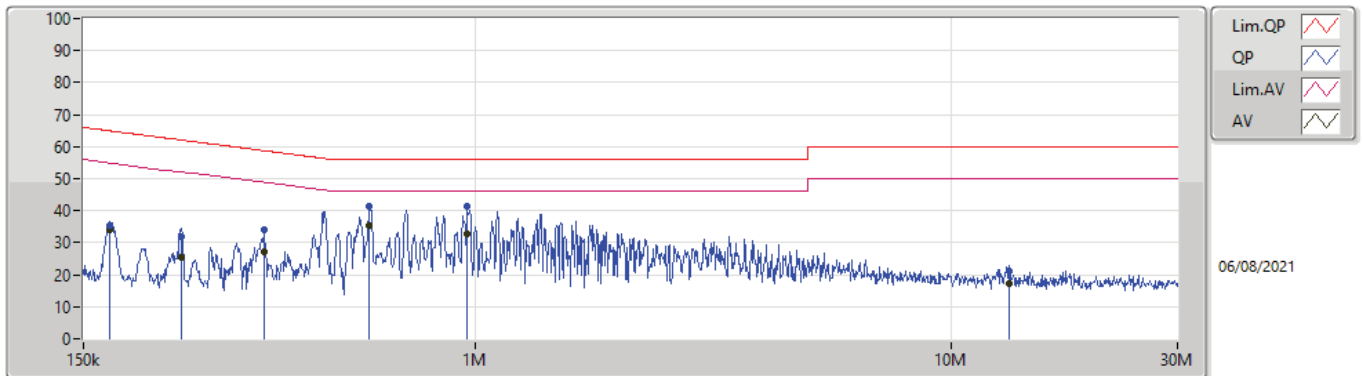
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	170.439k	36.82	64.93	-28.11	Line	-
Mode 1	Pass	AV	170.439k	34.78	54.93	-20.15	Line	-
Mode 1	Pass	QP	239.296k	37.10	62.12	-25.02	Line	-
Mode 1	Pass	AV	239.296k	29.24	52.12	-22.88	Line	-
Mode 1	Pass	QP	481.211k	36.52	56.33	-19.81	Line	-
Mode 1	Pass	AV	481.211k	29.04	46.33	17.29	Line	-
Mode 1	Pass	QP	596.975k	39.82	56.00	-16.18	Line	-
Mode 1	Pass	AV	596.975k	32.99	46.00	-13.01	Line	-
Mode 1	Pass	QP	975.445k	40.10	56.00	-15.90	Line	-
Mode 1	Pass	AV	975.445k	36.42	46.00	-9.58	Line	-
Mode 1	Pass	QP	13.597M	21.24	60.00	-38.76	Line	-
Mode 1	Pass	AV	13.597M	17.37	50.00	-32.62	Line	-
Mode 1	Pass	QP	170.439k	35.50	64.93	-29.43	Neutral	-
Mode 1	Pass	AV	170.439k	34.01	54.93	-20.92	Neutral	-
Mode 1	Pass	QP	240.253k	32.10	62.08	-29.98	Neutral	-
Mode 1	Pass	AV	240.253k	25.29	52.08	-26.79	Neutral	-
Mode 1	Pass	QP	361.001k	33.87	58.70	-24.83	Neutral	-
Mode 1	Pass	AV	361.001k	26.97	48.70	-21.73	Neutral	-
Mode 1	Pass	QP	599.363k	41.27	56.00	-14.73	Neutral	-
Mode 1	Pass	AV	599.363k	35.24	46.00	-10.76	Neutral	-
Mode 1	Pass	QP	963.832k	41.42	56.00	-14.58	Neutral	-
Mode 1	Pass	AV	963.832k	32.81	46.00	-13.19	Neutral	-
Mode 1	Pass	QP	13.275M	21.27	60.00	-38.73	Neutral	-
Mode 1	Pass	AV	13.275M	17.25	50.00	-32.75	Neutral	-

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	170.439k	36.82	64.93	-28.11	19.63	Line	-	17.19	9.69	0.04	9.90			
AV	170.439k	34.78	54.93	-20.15	19.63	Line	-	15.15	9.69	0.04	9.90			
QP	239.296k	37.10	62.12	-25.02	19.63	Line	-	17.47	9.68	0.05	9.90			
AV	239.296k	29.24	52.12	-22.88	19.63	Line	-	9.61	9.68	0.05	9.90			
QP	481.211k	36.52	56.33	-19.81	19.61	Line	-	16.91	9.67	0.06	9.88			
AV	481.211k	29.04	46.33	-17.29	19.61	Line	-	9.43	9.67	0.06	9.88			
QP	596.975k	39.82	56.00	-16.18	19.60	Line	-	20.22	9.67	0.07	9.86			
AV	596.975k	32.99	46.00	-13.01	19.60	Line	-	13.39	9.67	0.07	9.86			
QP	975.445k	40.10	56.00	-15.90	19.55	Line	-	20.55	9.67	0.08	9.80			
AV	975.445k	36.42	46.00	-9.58	19.55	Line	-	16.87	9.67	0.08	9.80			
QP	13.597M	21.24	60.00	-38.76	19.84	Line	-	1.40	9.70	0.24	9.90			
AV	13.597M	17.38	50.00	-32.62	19.84	Line	-	-2.46	9.70	0.24	9.90			

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	170.439k	35.50	64.93	-29.43	19.63	Neutral	-	15.87	9.69	0.04	9.90			
AV	170.439k	34.01	54.93	-20.92	19.63	Neutral	-	14.38	9.69	0.04	9.90			
QP	240.253k	32.10	62.08	-29.98	19.63	Neutral	-	12.47	9.68	0.05	9.90			
AV	240.253k	25.29	52.08	-26.79	19.63	Neutral	-	5.66	9.68	0.05	9.90			
QP	361.001k	33.87	58.70	-24.83	19.63	Neutral	-	14.24	9.67	0.06	9.90			
AV	361.001k	26.97	48.70	-21.73	19.63	Neutral	-	7.34	9.67	0.06	9.90			
QP	599.363k	41.27	56.00	-14.73	19.60	Neutral	-	21.67	9.67	0.07	9.86			
AV	599.363k	35.24	46.00	-10.76	19.60	Neutral	-	15.64	9.67	0.07	9.86			
QP	963.832k	41.42	56.00	-14.58	19.55	Neutral	-	21.87	9.67	0.08	9.80			
AV	963.832k	32.81	46.00	-13.19	19.55	Neutral	-	13.26	9.67	0.08	9.80			
QP	13.275M	21.27	60.00	-38.73	19.87	Neutral	-	1.40	9.74	0.23	9.90			
AV	13.275M	17.25	50.00	-32.75	19.87	Neutral	-	-2.62	9.74	0.23	9.90			

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	21.93M	16.822M	16M8D1D	21.57M	16.702M
11a40_Nss1,(6Mbps)_2TX	39.96M	36.642M	36M6D1D	39.78M	36.582M
11a80_Nss1,(6Mbps)_2TX	81.96M	76.522M	76M5D1D	81.6M	76.162M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.69M	19.04M	19M0D1D	21.27M	18.981M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.02M	37.841M	37M8D1D	39.9M	37.721M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.96M	77.481M	77M5D1D	81.48M	77.361M
5.25-5.35GHz	-	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	21.9M	16.762M	16M8D1D	21.54M	16.732M
11a40_Nss1,(6Mbps)_2TX	39.9M	36.582M	36M6D1D	39.84M	36.522M
11a80_Nss1,(6Mbps)_2TX	81.96M	76.282M	76M3D1D	81.48M	76.162M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.69M	19.04M	19M0D1D	21.42M	18.951M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.08M	37.841M	37M8D1D	39.96M	37.721M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.96M	77.361M	77M4D1D	81.24M	77.121M
5.47-5.725GHz	-	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	21.78M	16.852M	16M9D1D	15.525M	13.388M
11a40_Nss1,(6Mbps)_2TX	40.02M	36.702M	36M7D1D	34.895M	33.163M
11a80_Nss1,(6Mbps)_2TX	104.76M	76.642M	76M6D1D	75.3M	72.864M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.78M	19.01M	19M0D1D	15.63M	14.453M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.02M	37.961M	38M0D1D	35.105M	33.723M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.84M	77.601M	77M6D1D	75.825M	73.238M
5.725-5.85GHz	-	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	16.35M	16.822M	16M8D1D	3.18M	3.998M
11a40_Nss1,(6Mbps)_2TX	36.36M	36.522M	36M5D1D	3.16M	3.518M
11a80_Nss1,(6Mbps)_2TX	76.32M	76.282M	76M3D1D	3.16M	3.878M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.02M	19.04M	19M0D1D	4.48M	4.618M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.68M	37.901M	37M9D1D	3.78M	4.078M
802.11ax HEW80_Nss1,(MCS0)_2TX	76.8M	77.361M	77M4D1D	3.74M	4.098M

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)
11a20_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	16.732M	21.87M	16.822M
5200MHz	Pass	Inf	21.66M	16.792M	21.93M	16.762M
5240MHz	Pass	Inf	21.6M	16.702M	21.78M	16.732M
5260MHz	Pass	Inf	21.57M	16.762M	21.54M	16.762M
5300MHz	Pass	Inf	21.63M	16.762M	21.9M	16.732M
5320MHz	Pass	Inf	21.54M	16.762M	21.84M	16.762M
5500MHz	Pass	Inf	21.48M	16.732M	21.51M	16.762M
5580MHz	Pass	Inf	21.51M	16.702M	21.78M	16.762M
5700MHz	Pass	Inf	21.6M	16.852M	21.42M	16.732M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.675M	13.388M	15.525M	13.403M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.26M	3.998M	3.18M	3.998M
5745MHz	Pass	500k	16.32M	16.762M	16.35M	16.792M
5785MHz	Pass	500k	16.35M	16.822M	16.35M	16.792M
5825MHz	Pass	500k	16.35M	16.732M	16.35M	16.762M
11a40_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.84M	36.582M	39.78M	36.582M
5230MHz	Pass	Inf	39.9M	36.582M	39.96M	36.642M
5270MHz	Pass	Inf	39.84M	36.582M	39.84M	36.582M
5310MHz	Pass	Inf	39.9M	36.522M	39.84M	36.522M
5510MHz	Pass	Inf	39.78M	36.522M	39.72M	36.522M
5550MHz	Pass	Inf	39.84M	36.522M	39.84M	36.522M
5670MHz	Pass	Inf	40.02M	36.522M	39.96M	36.702M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.035M	33.163M	34.895M	33.198M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	3.638M	3.16M	3.518M
5755MHz	Pass	500k	36.3M	36.462M	36.36M	36.522M
5795MHz	Pass	500k	36.36M	36.522M	36.36M	36.522M
11a80_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.96M	76.162M	81.6M	76.522M
5290MHz	Pass	Inf	81.96M	76.282M	81.48M	76.162M
5530MHz	Pass	Inf	81.96M	76.282M	81.48M	76.402M
5610MHz	Pass	Inf	104.76M	76.642M	81.48M	76.522M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	93.6M	73.013M	75.3M	72.864M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	15.372M	3.18M	3.878M
5775MHz	Pass	500k	76.32M	76.282M	76.32M	76.282M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.69M	19.01M	21.48M	18.981M
5200MHz	Pass	Inf	21.69M	19.01M	21.45M	19.04M
5240MHz	Pass	Inf	21.69M	18.981M	21.27M	19.04M
5260MHz	Pass	Inf	21.69M	18.981M	21.42M	19.01M
5300MHz	Pass	Inf	21.69M	18.951M	21.42M	19.01M
5320MHz	Pass	Inf	21.51M	19.04M	21.45M	19.01M
5500MHz	Pass	Inf	21.72M	19.01M	21.42M	18.981M
5580MHz	Pass	Inf	21.78M	19.01M	21.42M	19.01M
5700MHz	Pass	Inf	21.75M	18.951M	21.33M	19.01M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.69M	14.498M	15.63M	14.453M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.618M	4.48M	4.618M
5745MHz	Pass	500k	18.99M	18.981M	18.96M	19.01M
5785MHz	Pass	500k	19.02M	19.04M	18.93M	19.01M
5825MHz	Pass	500k	19.02M	19.04M	18.99M	19.04M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.781M	40.02M	37.721M
5230MHz	Pass	Inf	40.02M	37.781M	39.9M	37.841M
5270MHz	Pass	Inf	40.02M	37.841M	39.96M	37.721M
5310MHz	Pass	Inf	40.02M	37.721M	40.08M	37.781M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
5510MHz	Pass	Inf	40.02M	37.961M	39.96M	37.661M
5550MHz	Pass	Inf	39.96M	37.841M	39.72M	37.721M
5670MHz	Pass	Inf	40.02M	37.661M	39.9M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.105M	33.723M	35.105M	33.758M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	4.098M	3.78M	4.078M
5755MHz	Pass	500k	37.56M	37.781M	37.56M	37.721M
5795MHz	Pass	500k	37.56M	37.721M	37.68M	37.901M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.48M	77.361M	81.96M	77.481M
5290MHz	Pass	Inf	81.24M	77.361M	81.96M	77.121M
5530MHz	Pass	Inf	81.36M	77.361M	81.84M	77.601M
5610MHz	Pass	Inf	81.24M	77.241M	81.48M	77.361M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.2M	73.463M	75.825M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	4.218M	3.74M	4.098M
5775MHz	Pass	500k	76.8M	77.361M	76.08M	77.241M

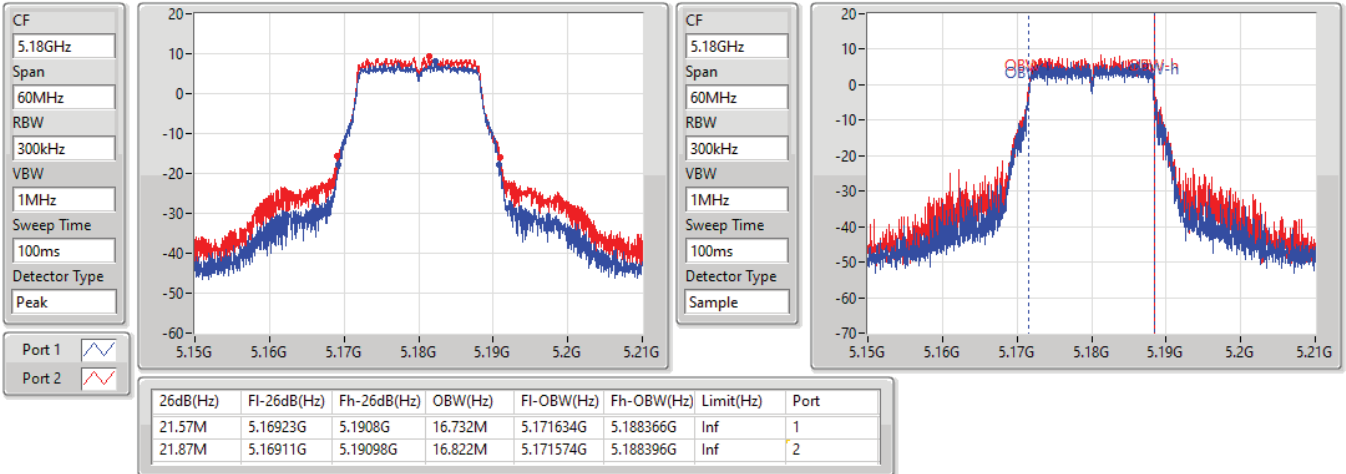
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

11a20_Nss1,(6Mbps)_2TX

EBW

5180MHz

28/07/2021

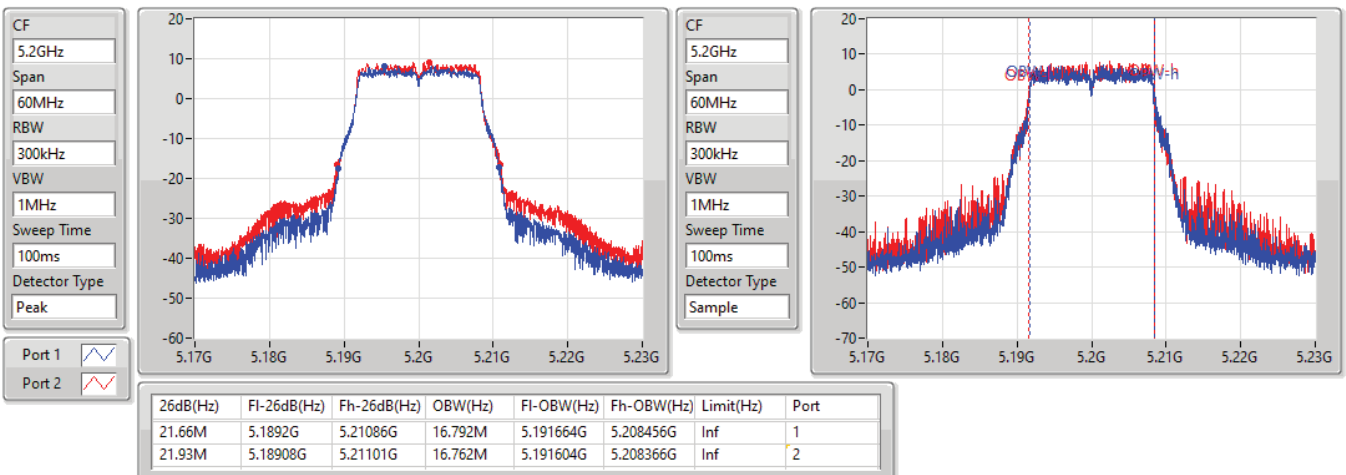


11a20_Nss1,(6Mbps)_2TX

EBW

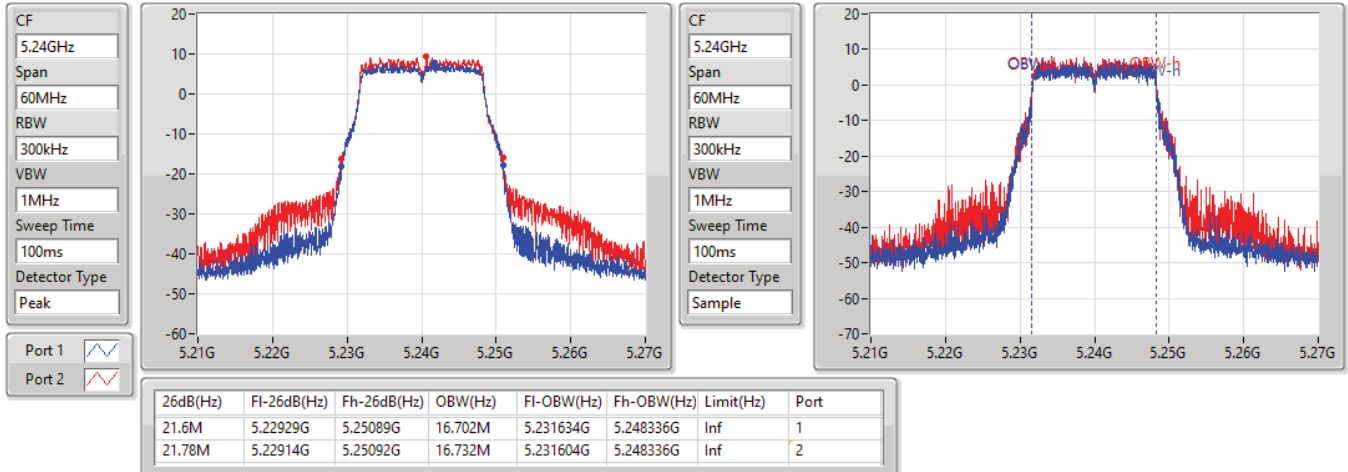
5200MHz

28/07/2021

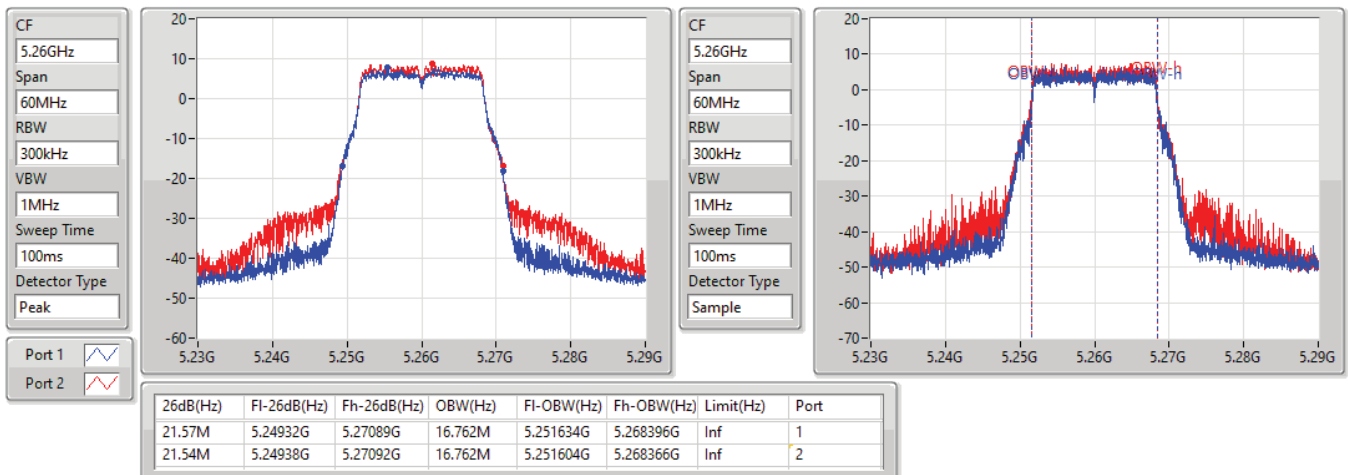


11a20_Nss1,(6Mbps)_2TX
EBW
5240MHz

28/07/2021


11a20_Nss1,(6Mbps)_2TX
EBW
5260MHz

28/07/2021

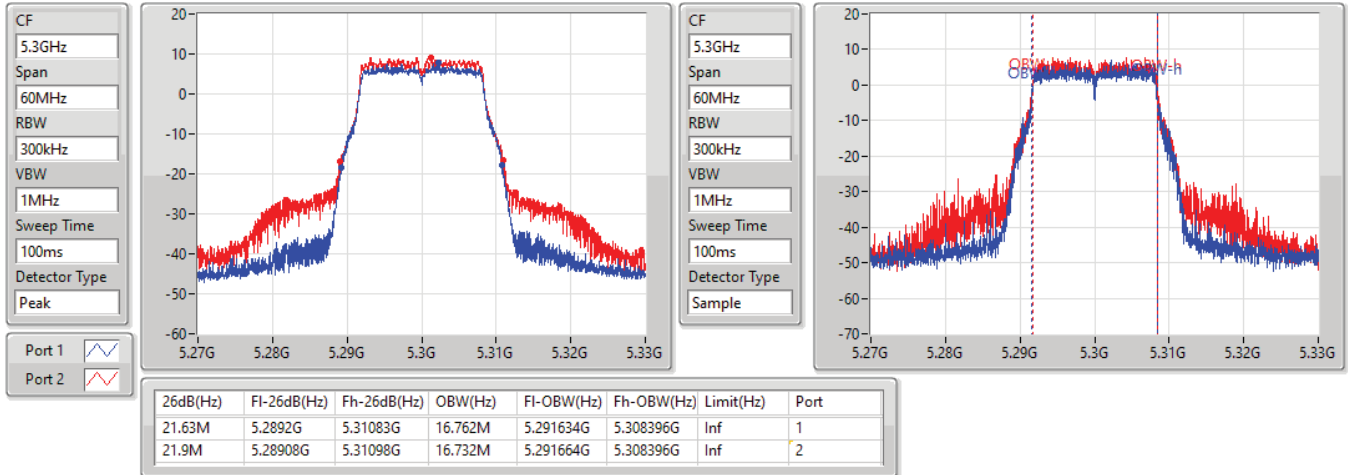


11a20_Nss1,(6Mbps)_2TX

EBW

5300MHz

28/07/2021

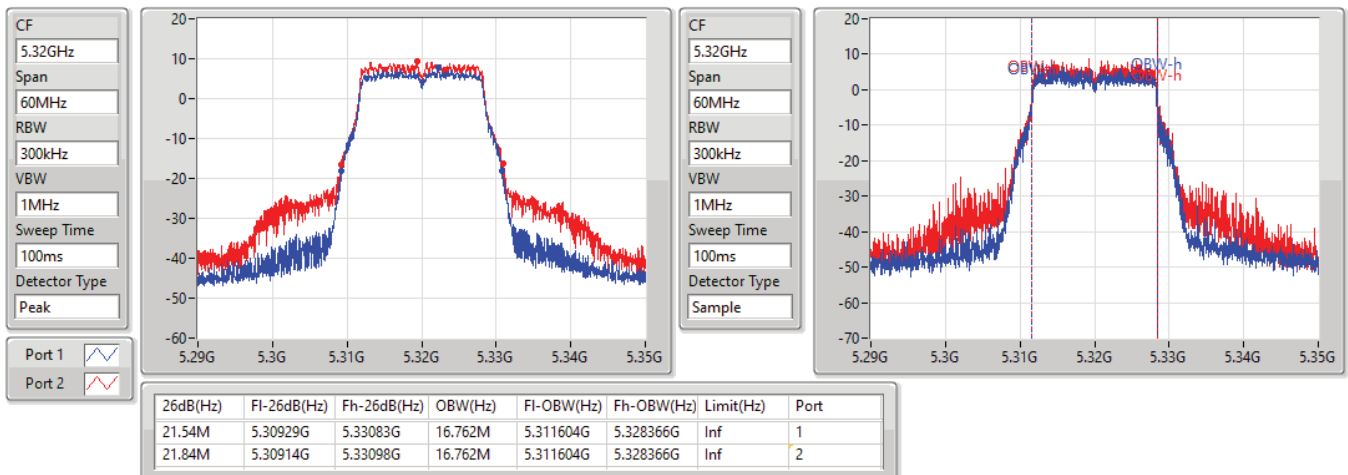


11a20_Nss1,(6Mbps)_2TX

EBW

5320MHz

28/07/2021

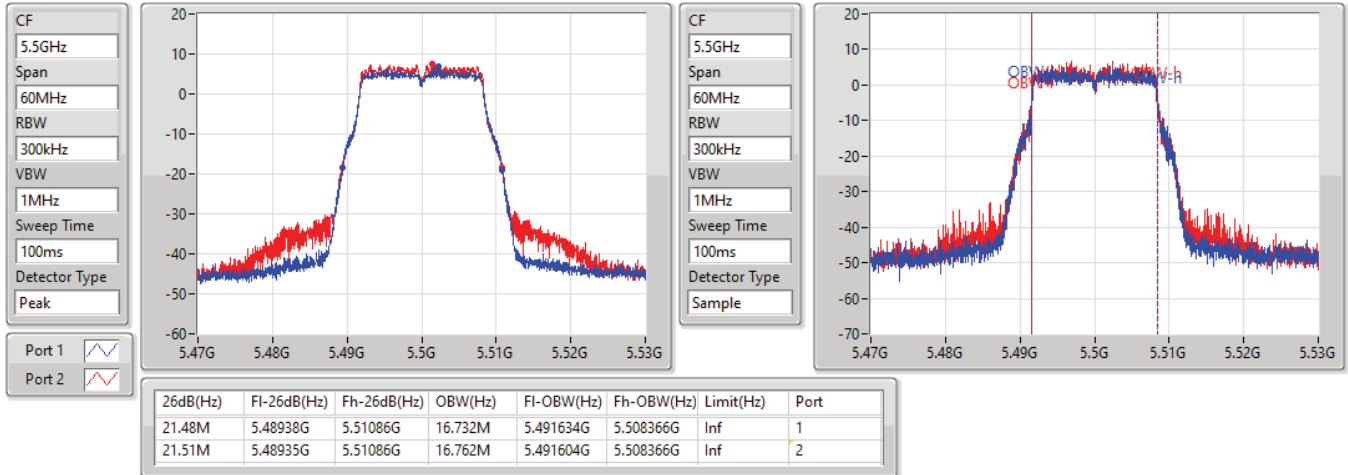


11a20_Nss1,(6Mbps)_2TX

EBW

5500MHz

28/07/2021

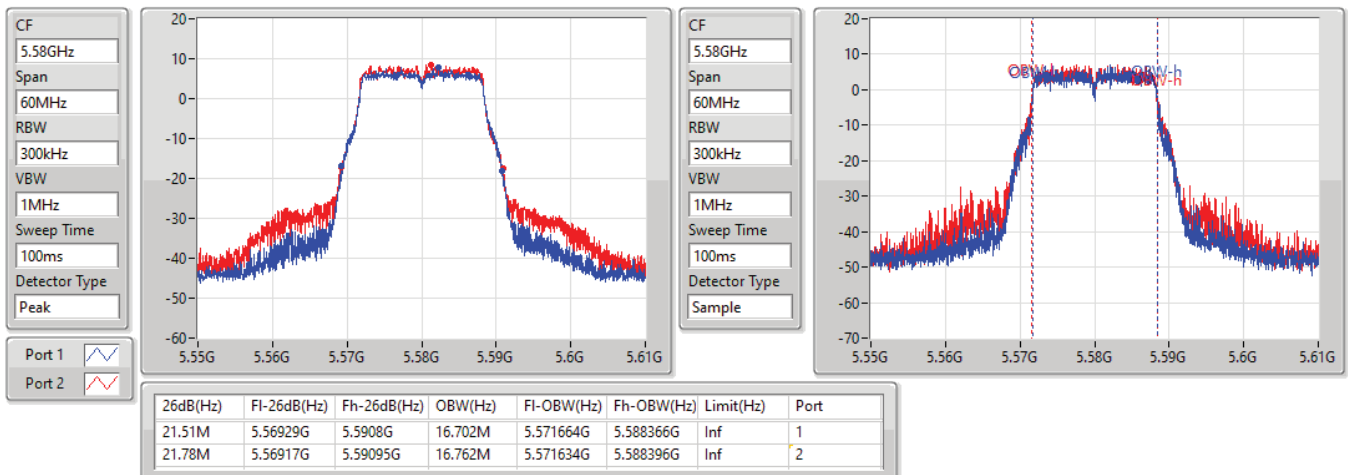


11a20_Nss1,(6Mbps)_2TX

EBW

5580MHz

28/07/2021

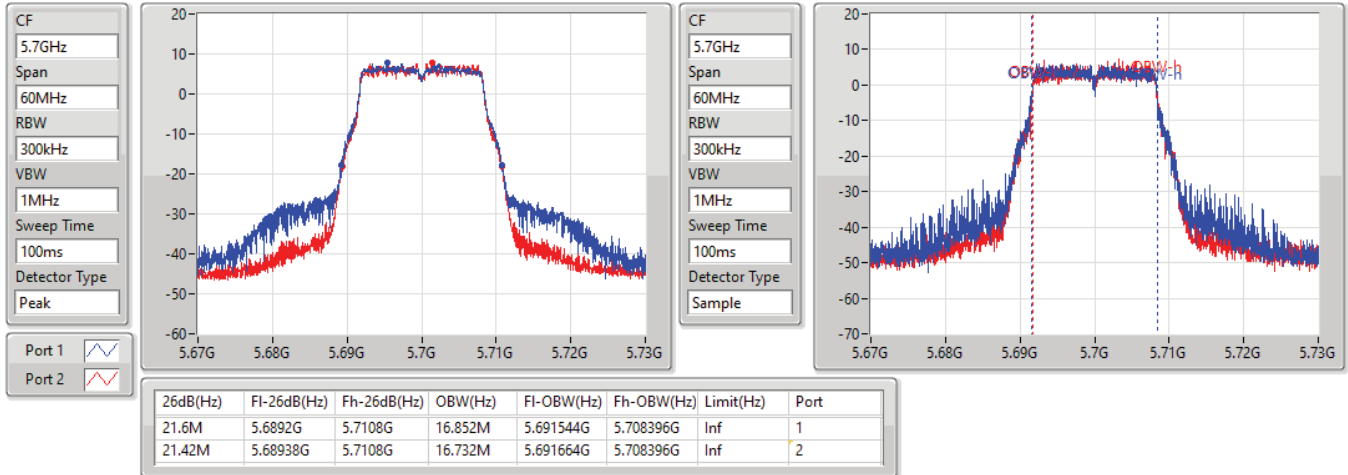


11a20_Nss1,(6Mbps)_2TX

EBW

5700MHz

28/07/2021

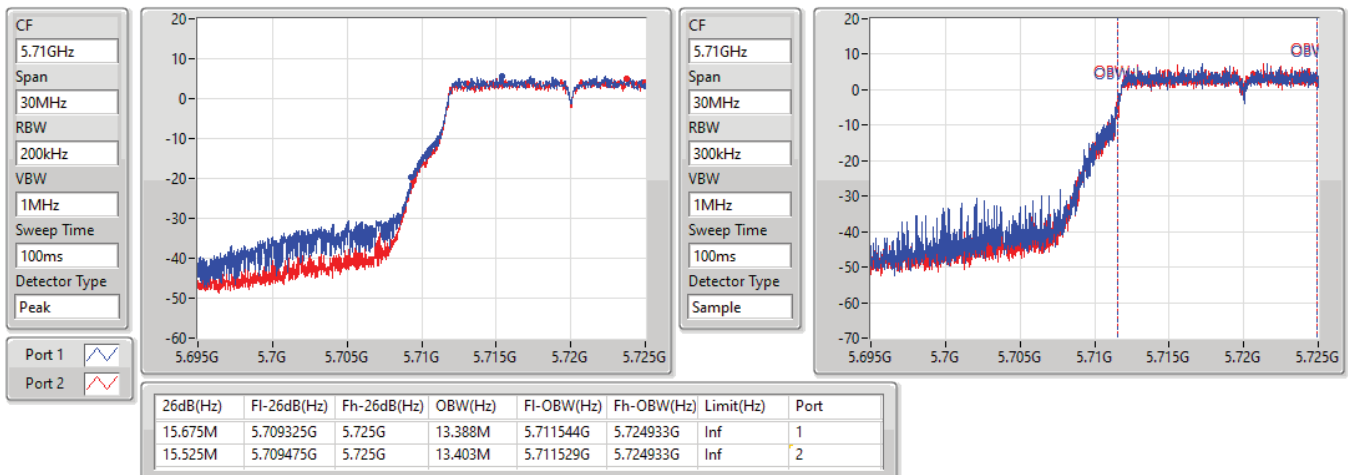


11a20_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

28/07/2021

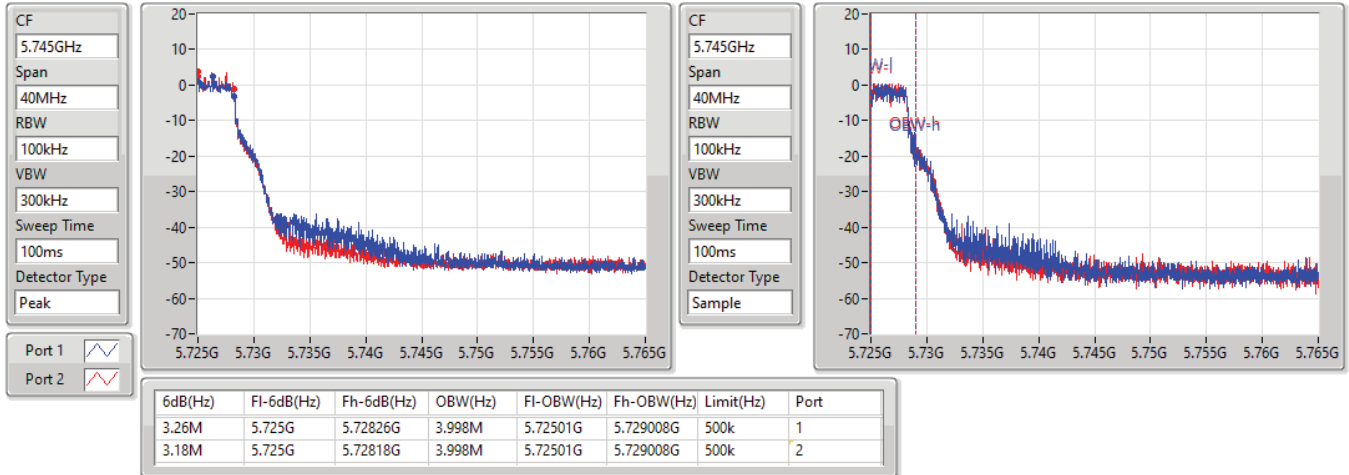


11a20_Nss1,(6Mbps)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

28/07/2021

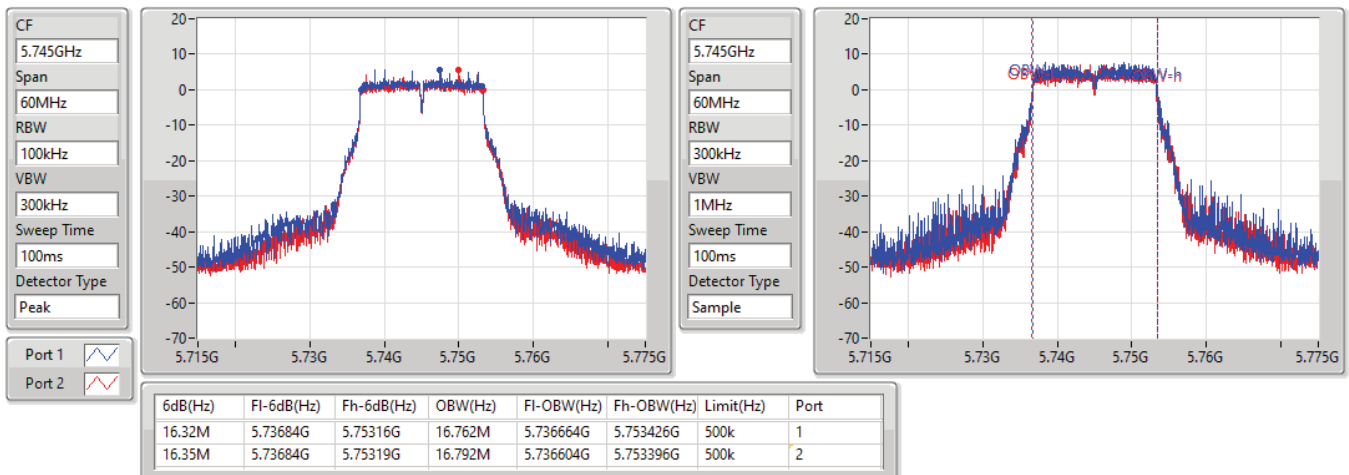


11a20_Nss1,(6Mbps)_2TX

EBW

5745MHz

28/07/2021

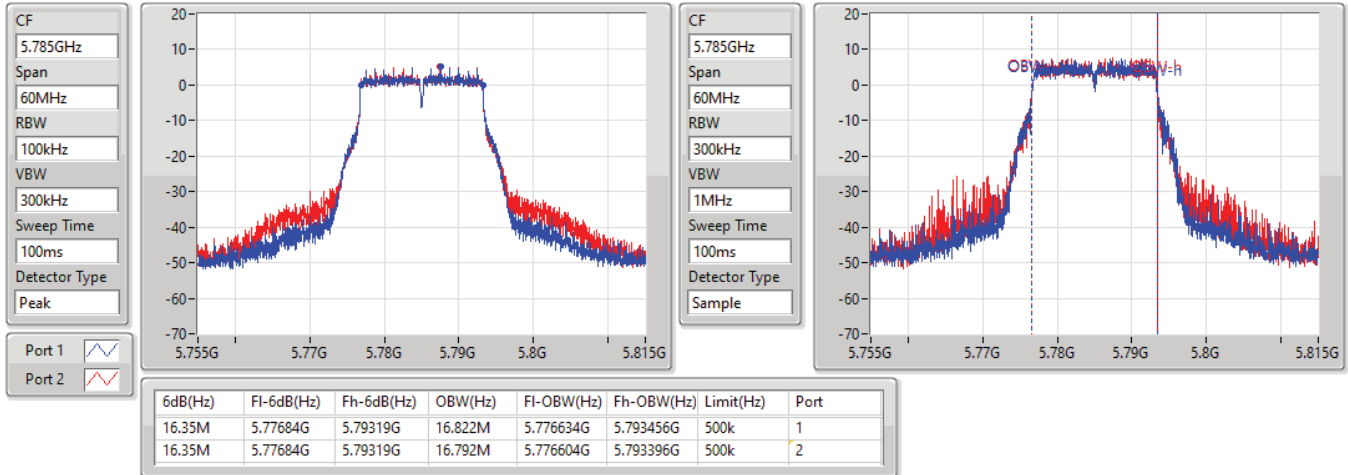


11a20_Nss1,(6Mbps)_2TX

EBW

5785MHz

28/07/2021

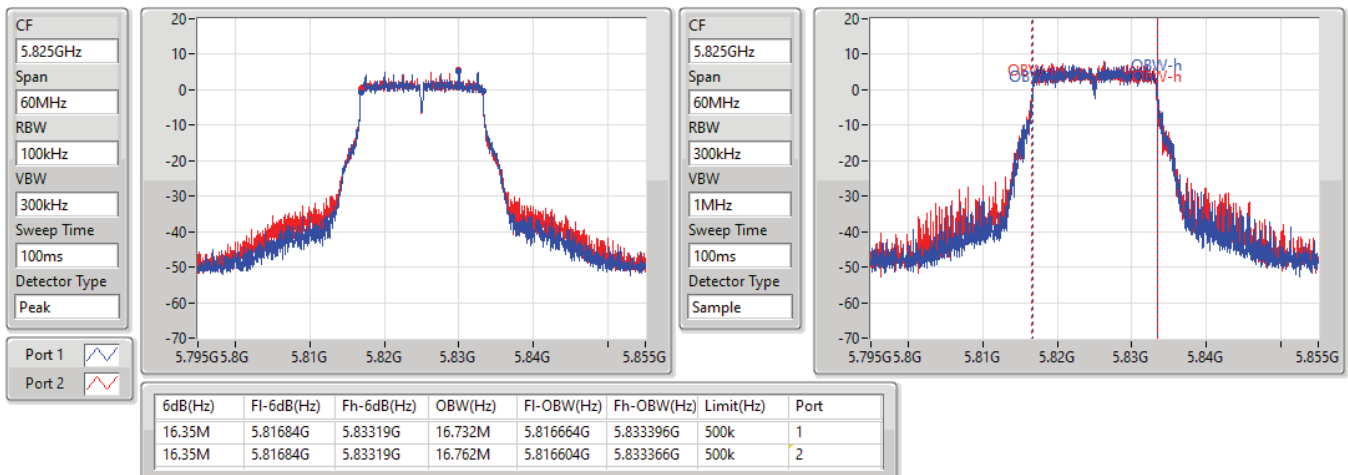


11a20_Nss1,(6Mbps)_2TX

EBW

5825MHz

28/07/2021

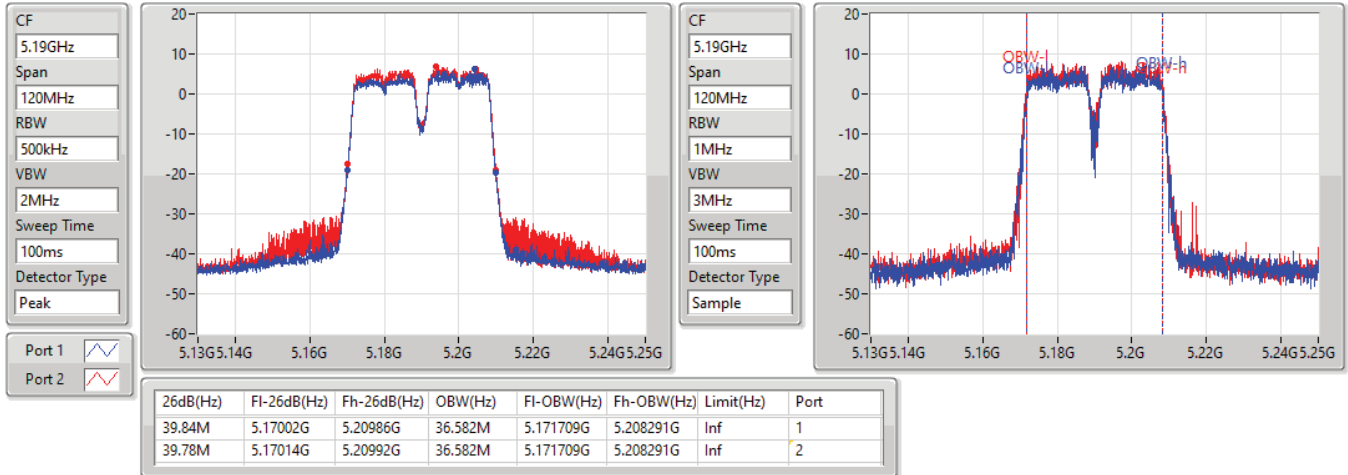


11a40_Nss1,(6Mbps)_2TX

EBW

5190MHz

28/07/2021

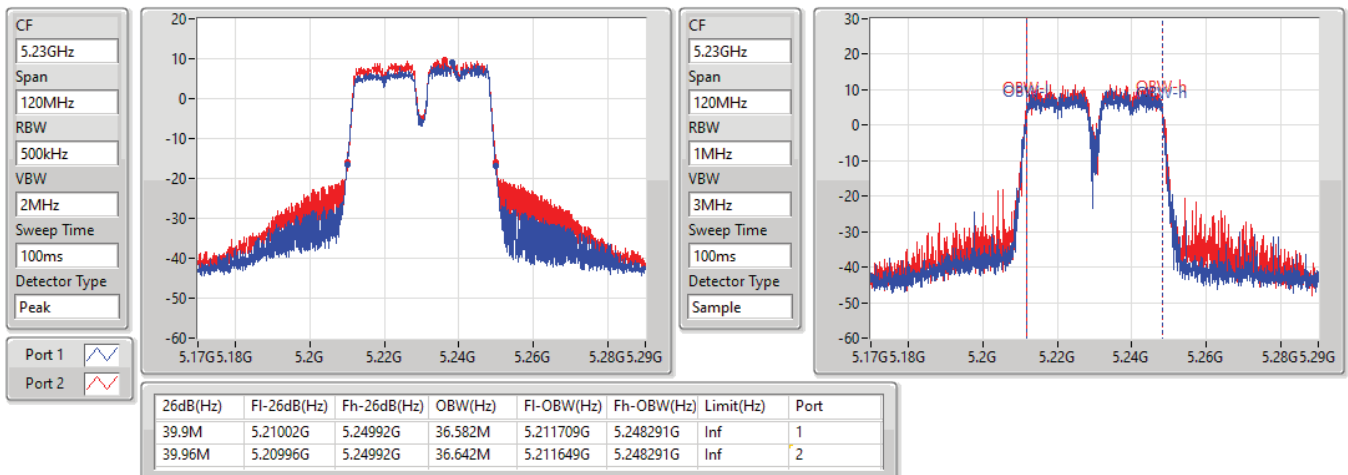


11a40_Nss1,(6Mbps)_2TX

EBW

5230MHz

28/07/2021

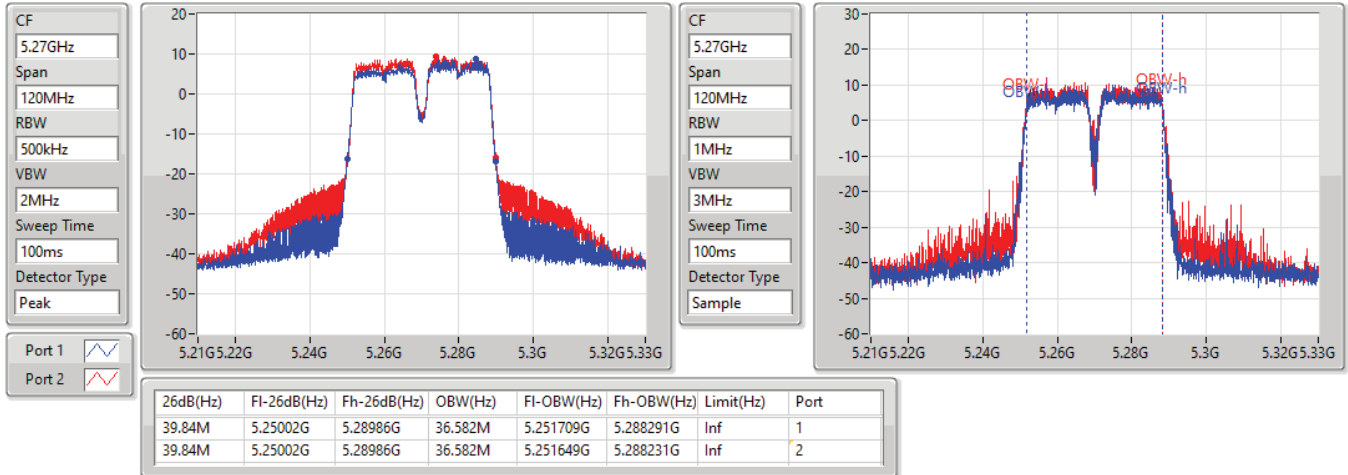


11a40_Nss1,(6Mbps)_2TX

EBW

5270MHz

28/07/2021

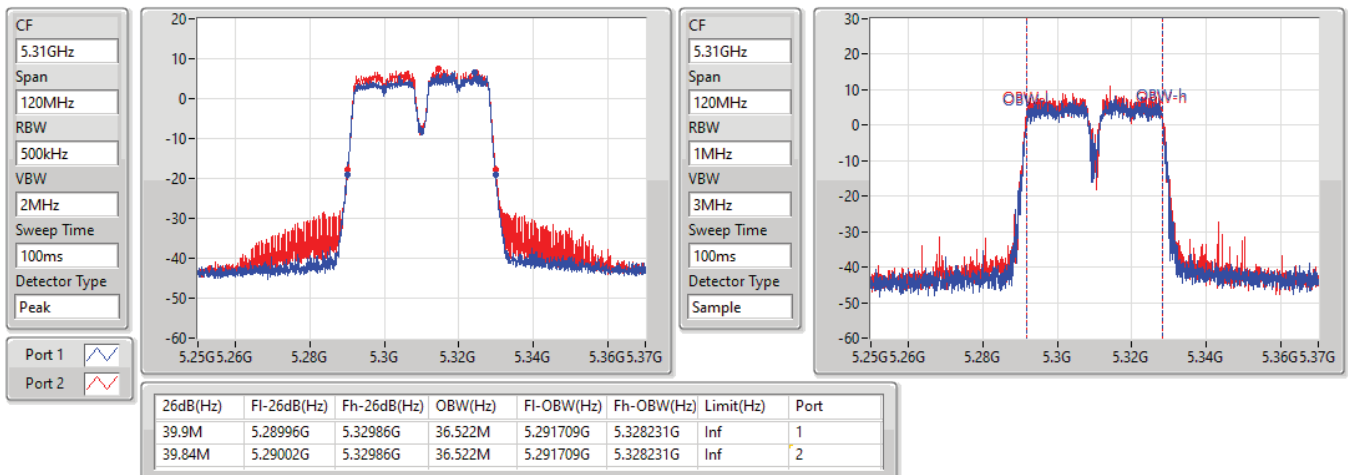


11a40_Nss1,(6Mbps)_2TX

EBW

5310MHz

28/07/2021

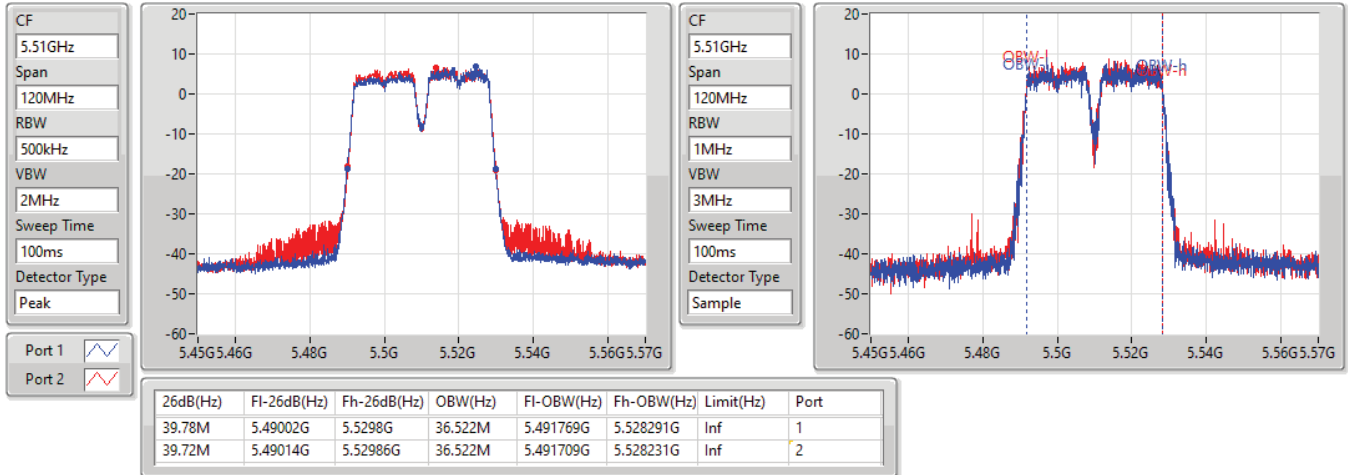


11a40_Nss1,(6Mbps)_2TX

EBW

5510MHz

28/07/2021

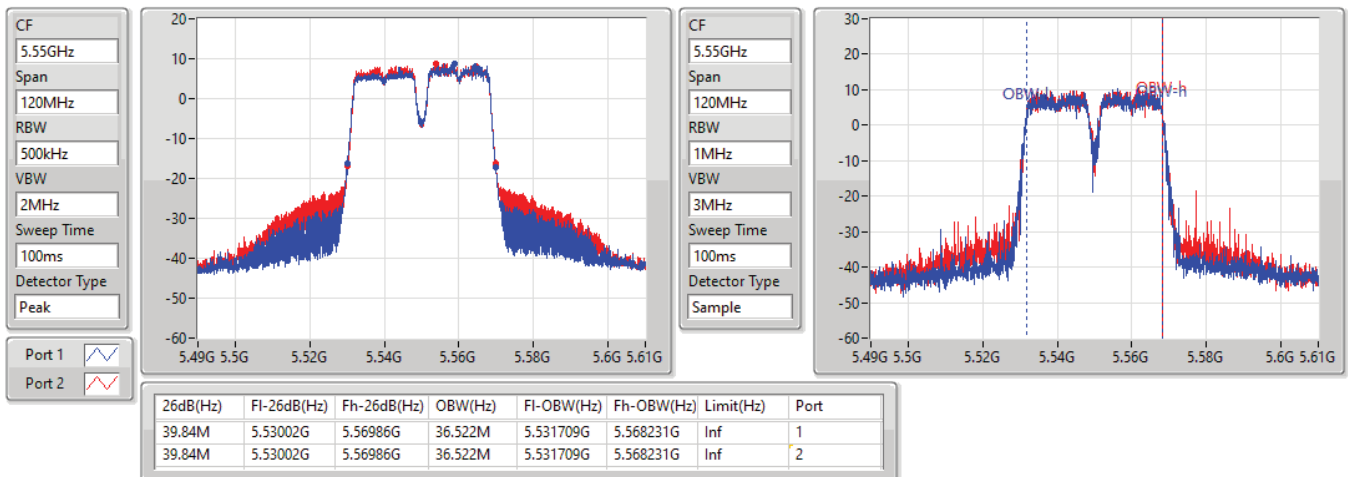


11a40_Nss1,(6Mbps)_2TX

EBW

5550MHz

28/07/2021

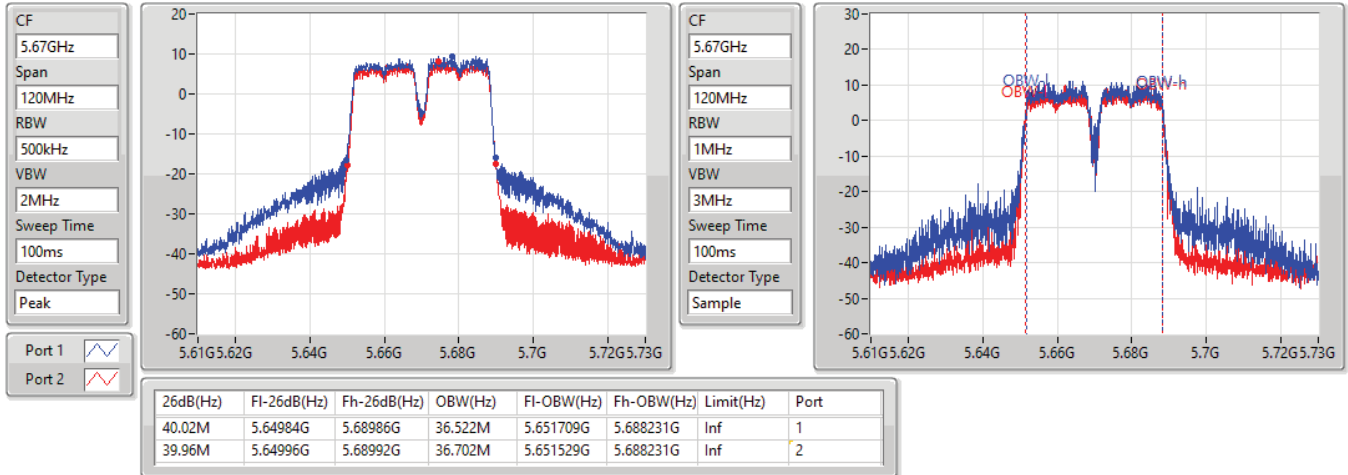


11a40_Nss1,(6Mbps)_2TX

EBW

5670MHz

28/07/2021

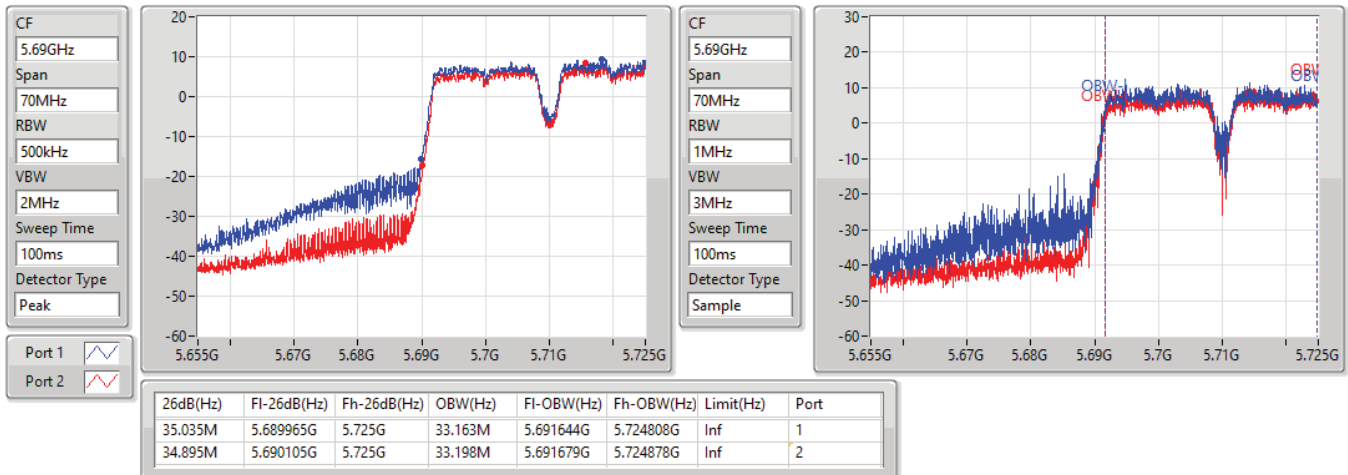


11a40_Nss1,(6Mbps)_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

28/07/2021

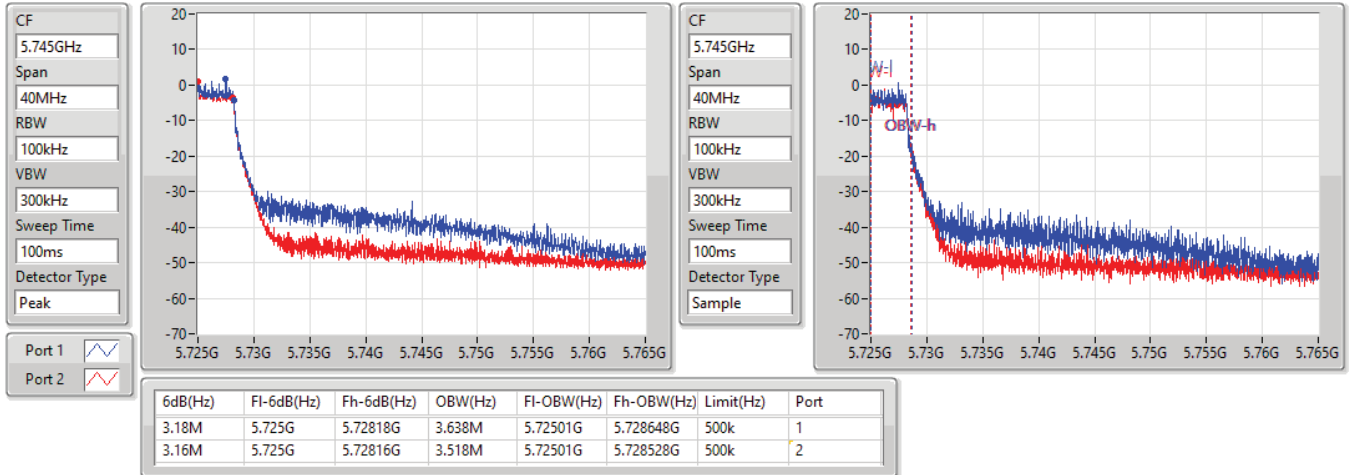


11a40_Nss1,(6Mbps)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

28/07/2021

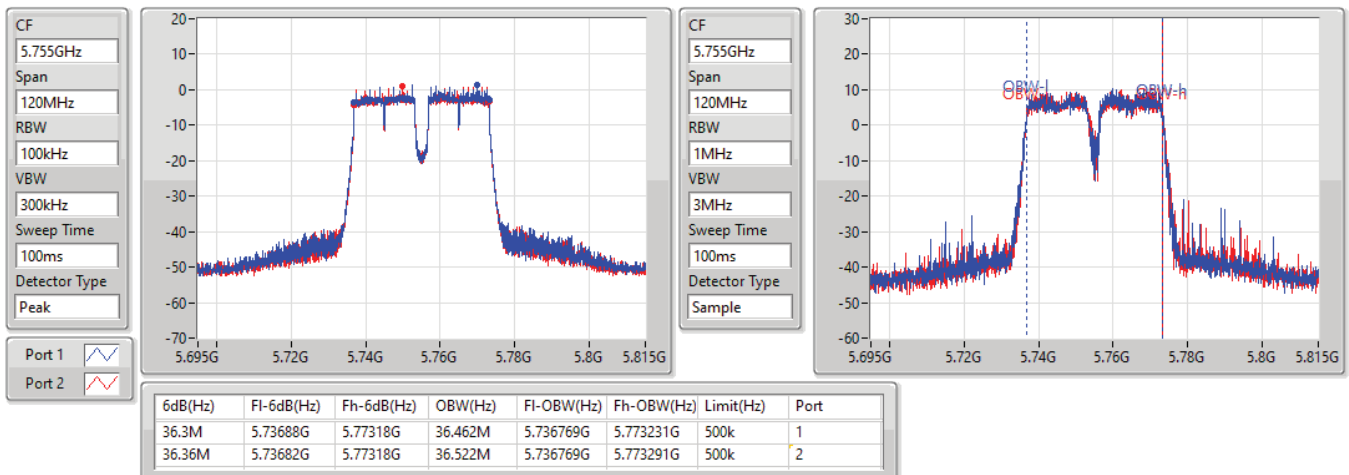


11a40_Nss1,(6Mbps)_2TX

EBW

5755MHz

28/07/2021

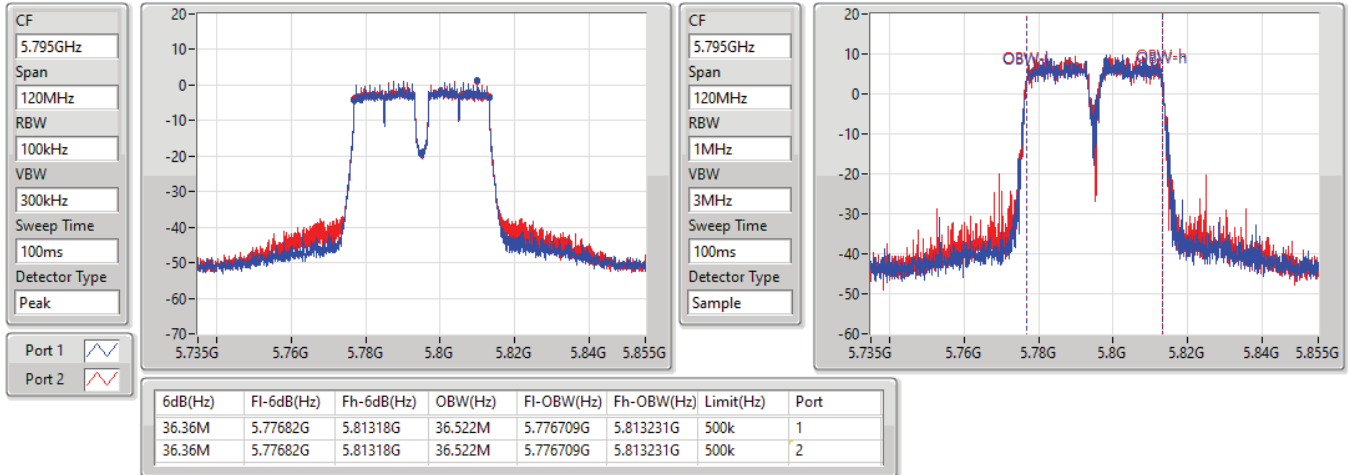


11a40_Nss1,(6Mbps)_2TX

EBW

5795MHz

28/07/2021

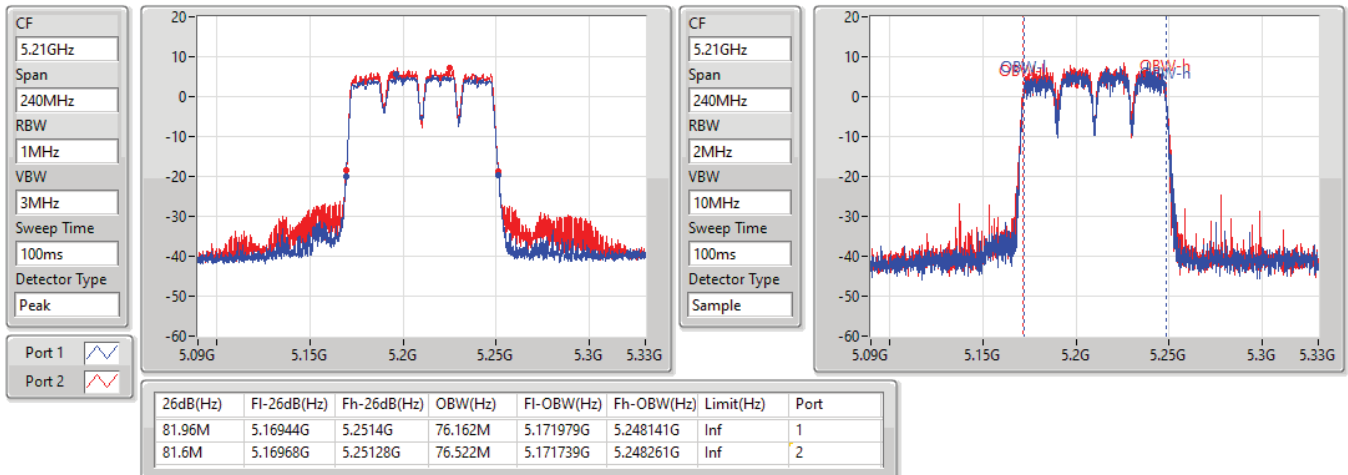


11a80_Nss1,(6Mbps)_2TX

EBW

5210MHz

28/07/2021

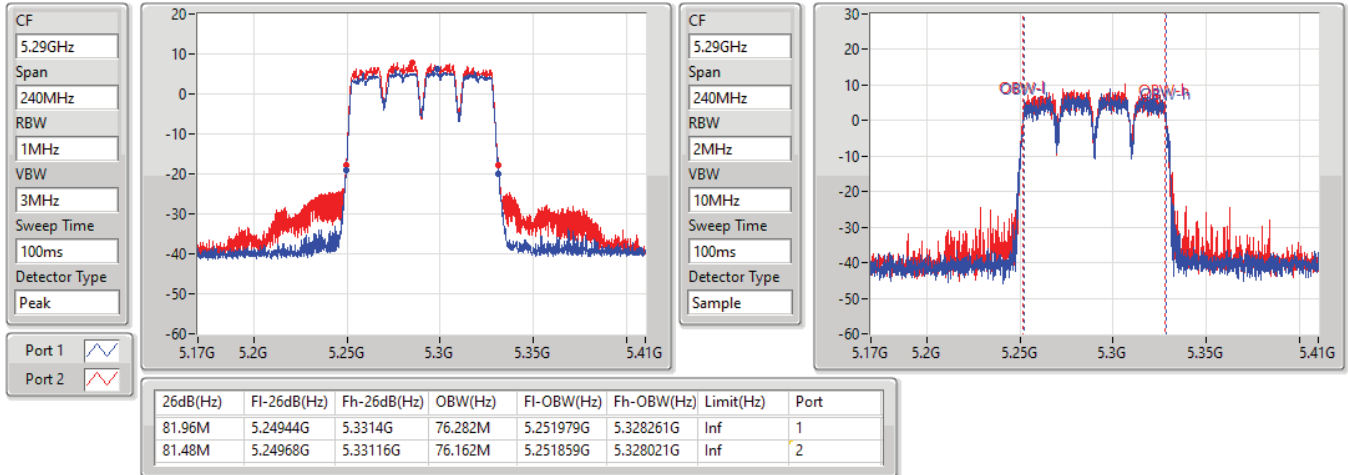


11a80_Nss1,(6Mbps)_2TX

EBW

5290MHz

28/07/2021

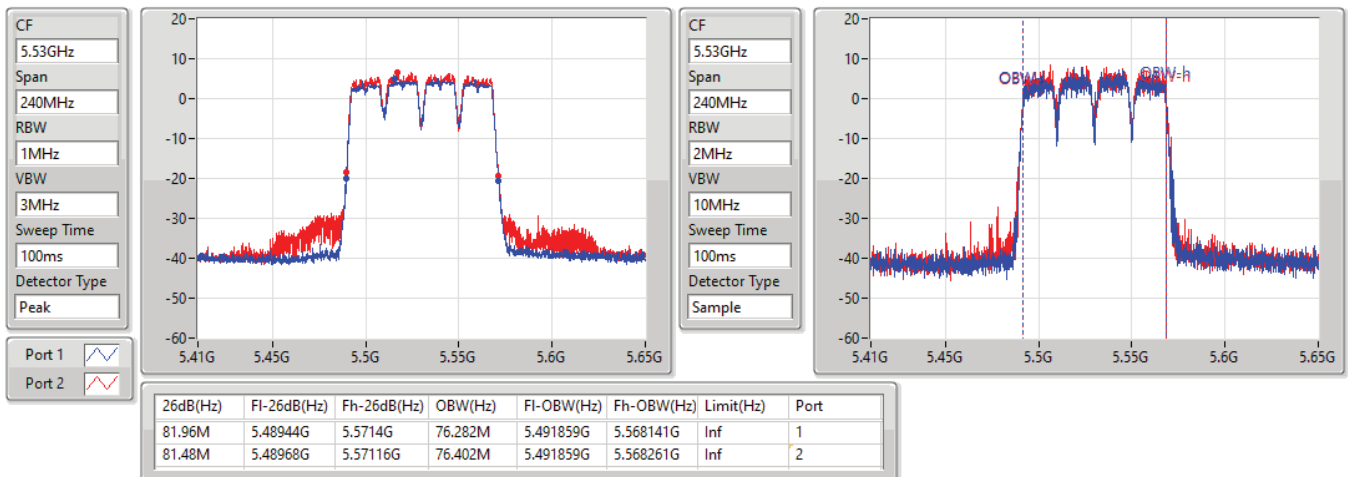


11a80_Nss1,(6Mbps)_2TX

EBW

5530MHz

28/07/2021

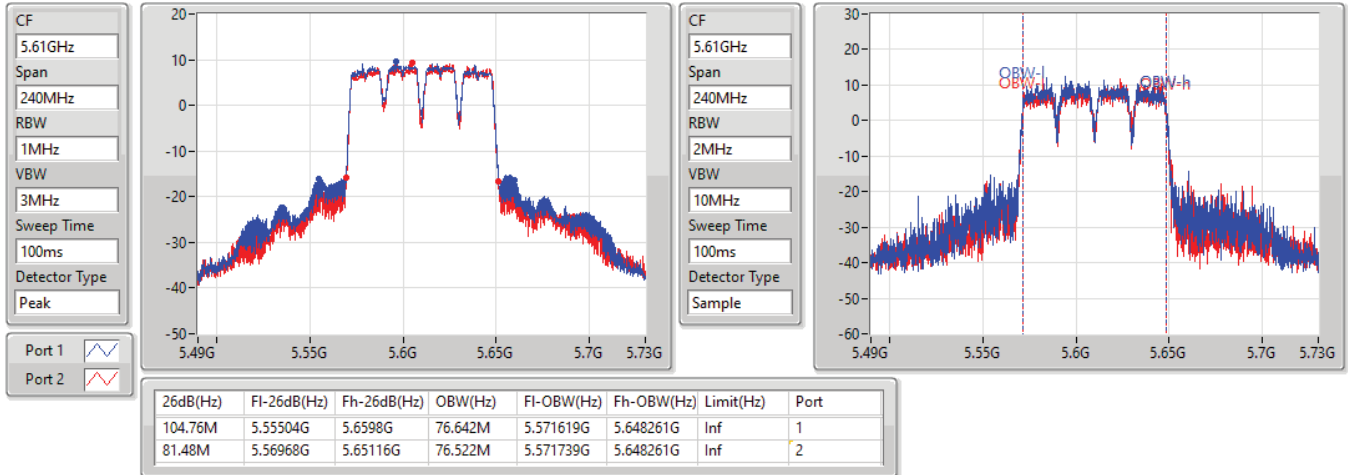


11a80_Nss1,(6Mbps)_2TX

EBW

5610MHz

28/07/2021

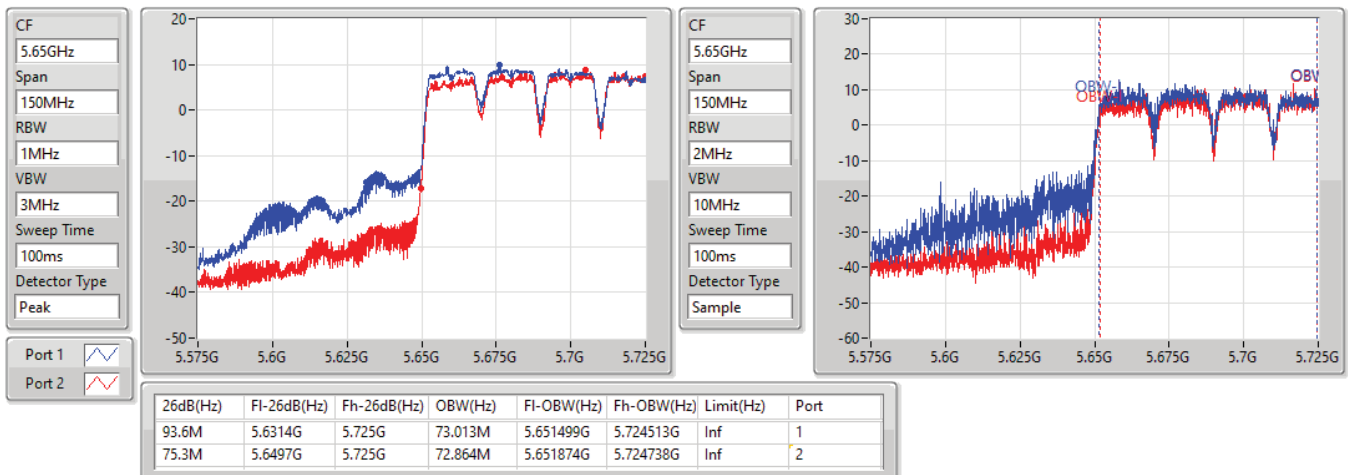


11a80_Nss1,(6Mbps)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

28/07/2021

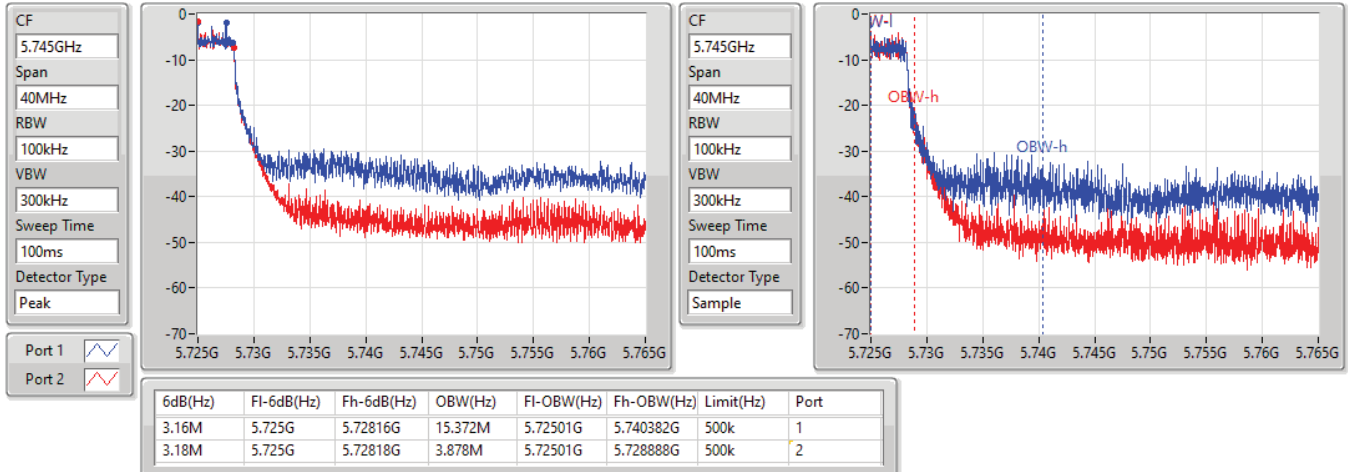


11a80_Nss1,(6Mbps)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

28/07/2021

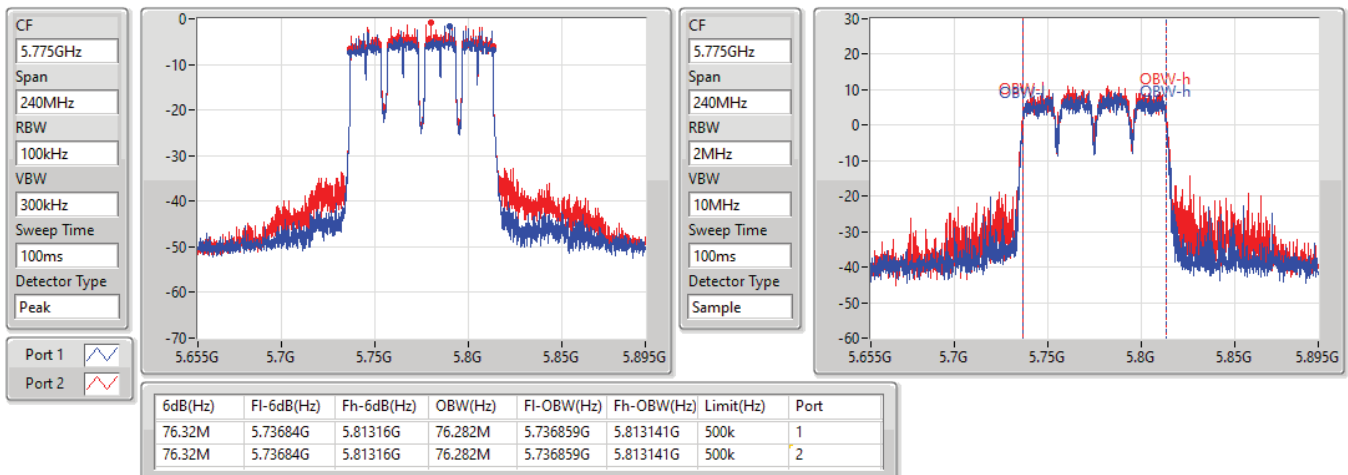


11a80_Nss1,(6Mbps)_2TX

EBW

5775MHz

28/07/2021

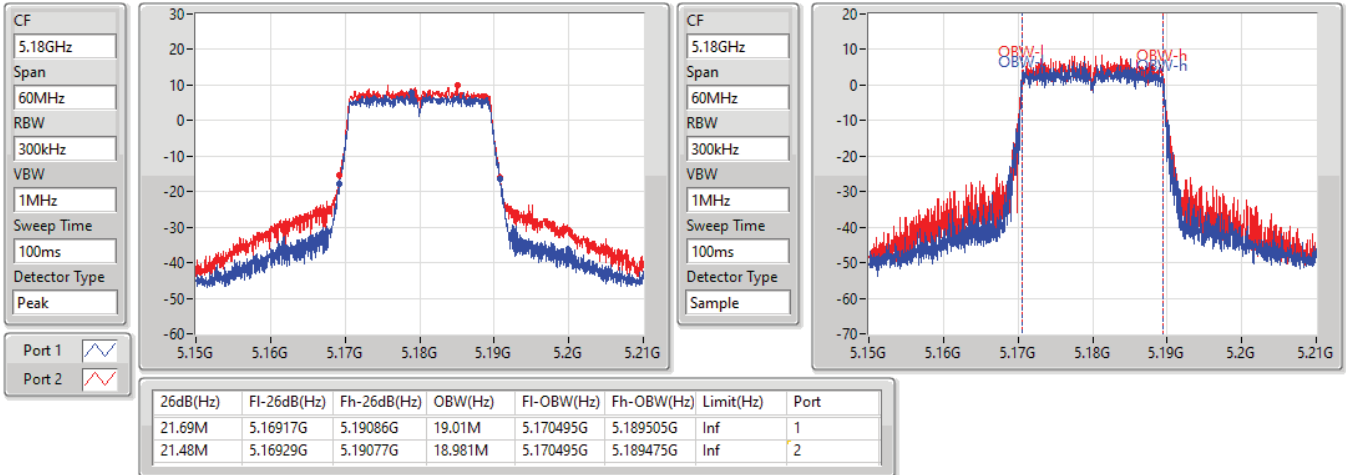


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5180MHz

28/07/2021

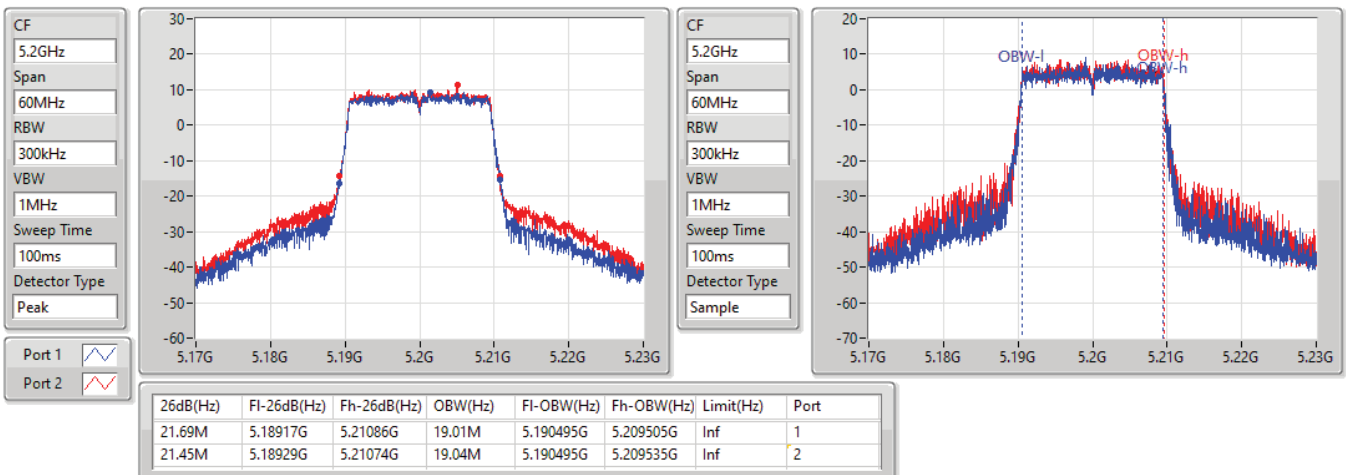


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

28/07/2021

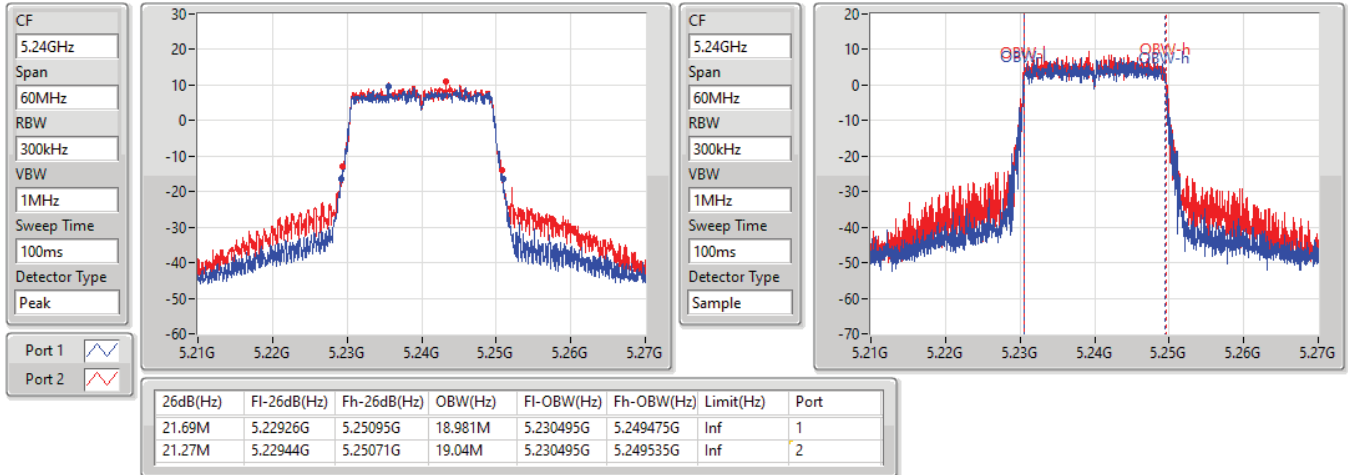


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5240MHz

28/07/2021

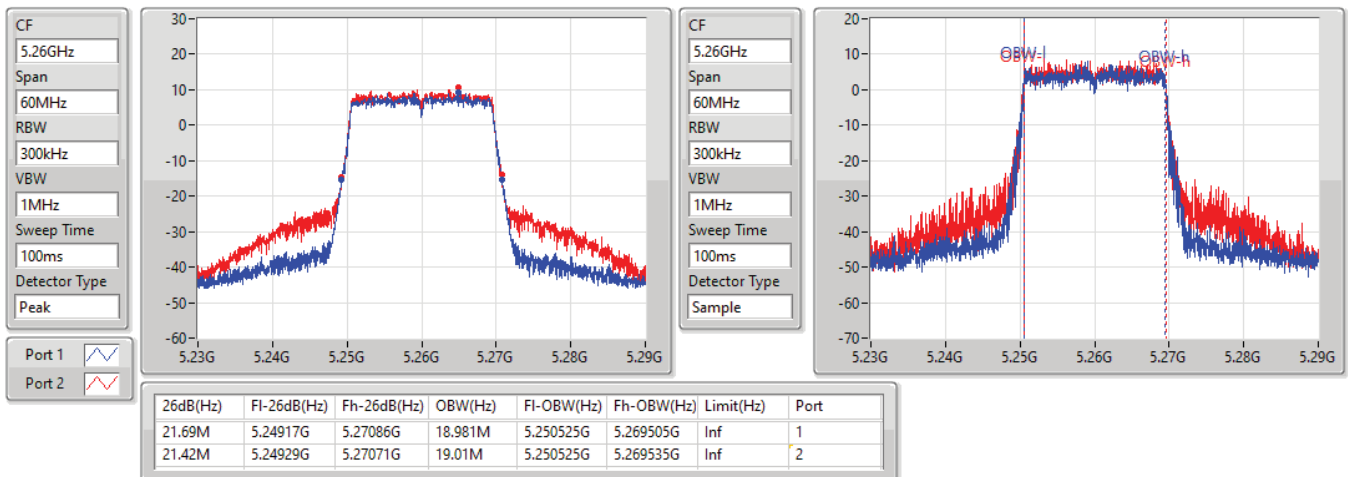


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5260MHz

28/07/2021

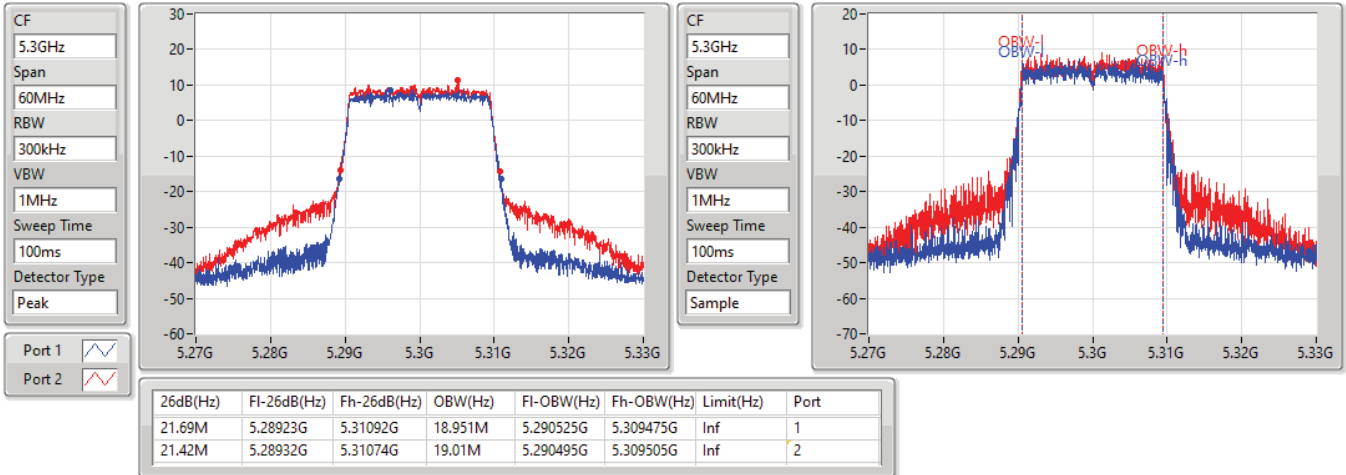


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5300MHz

28/07/2021

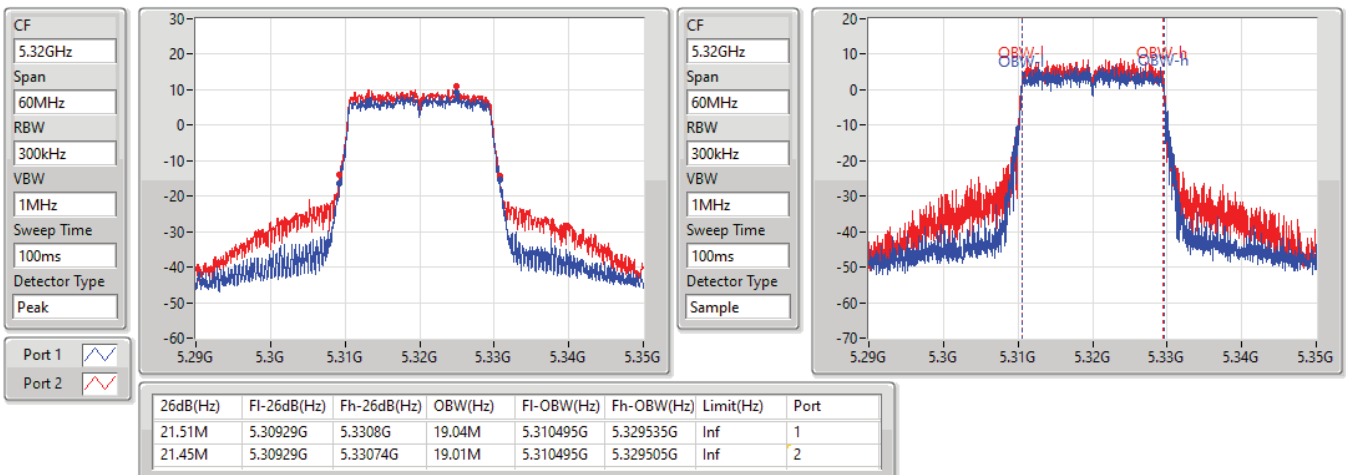


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5320MHz

28/07/2021

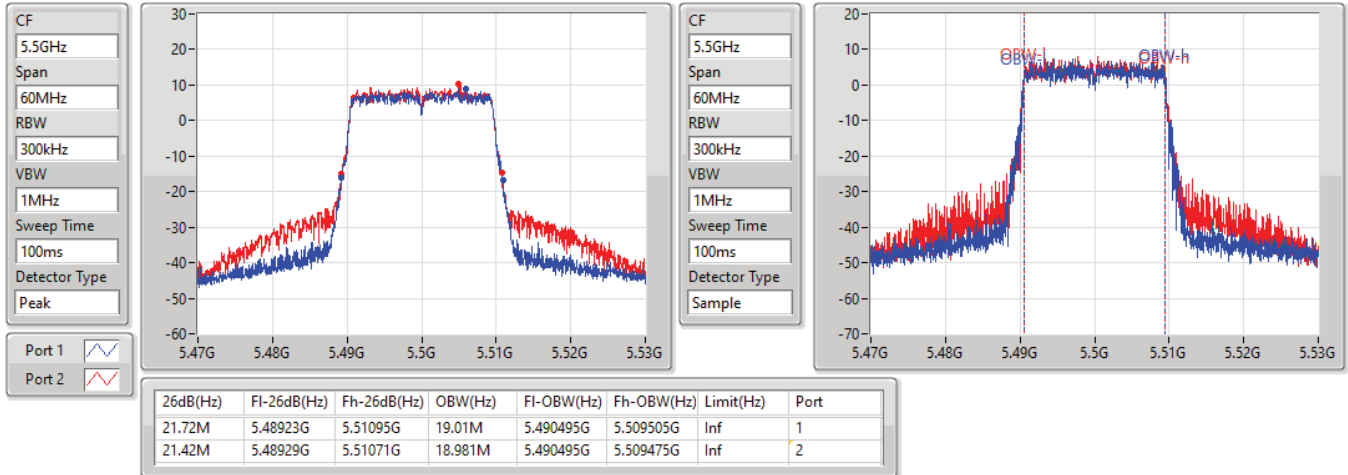


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5500MHz

28/07/2021

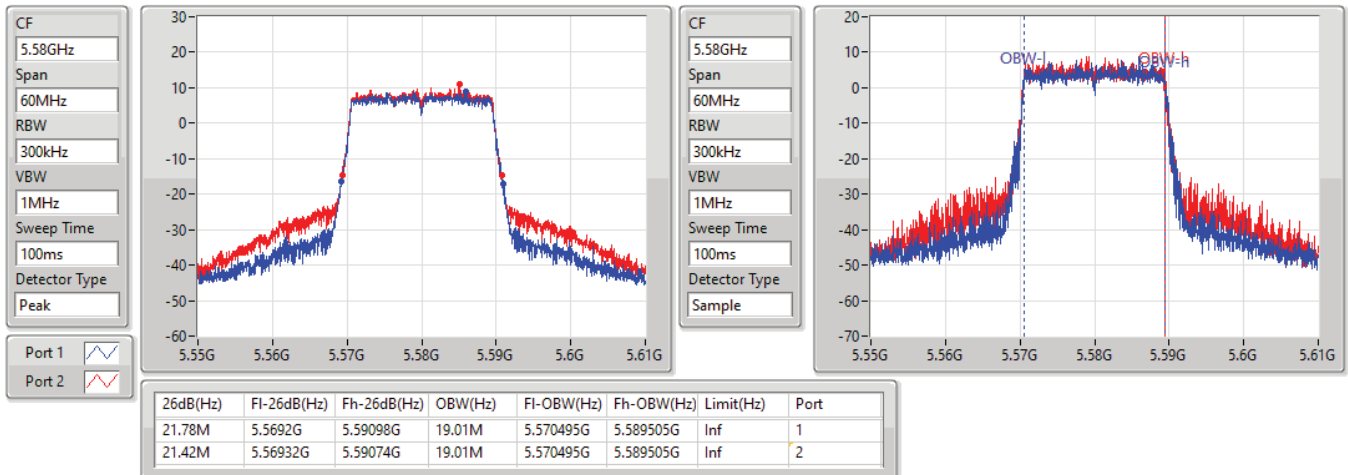


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5580MHz

28/07/2021

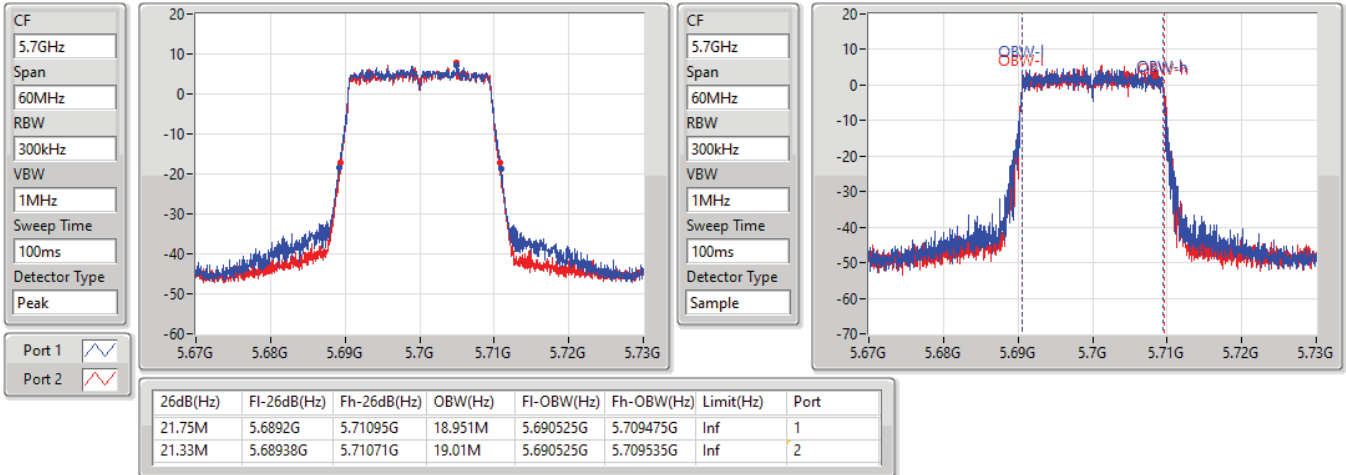


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5700MHz

28/07/2021

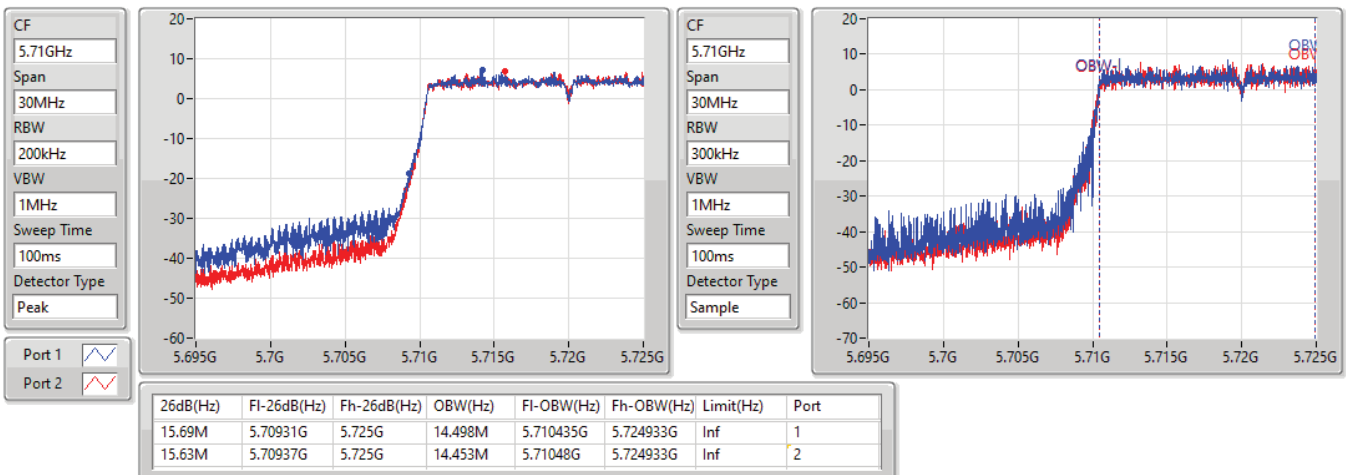


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

28/07/2021

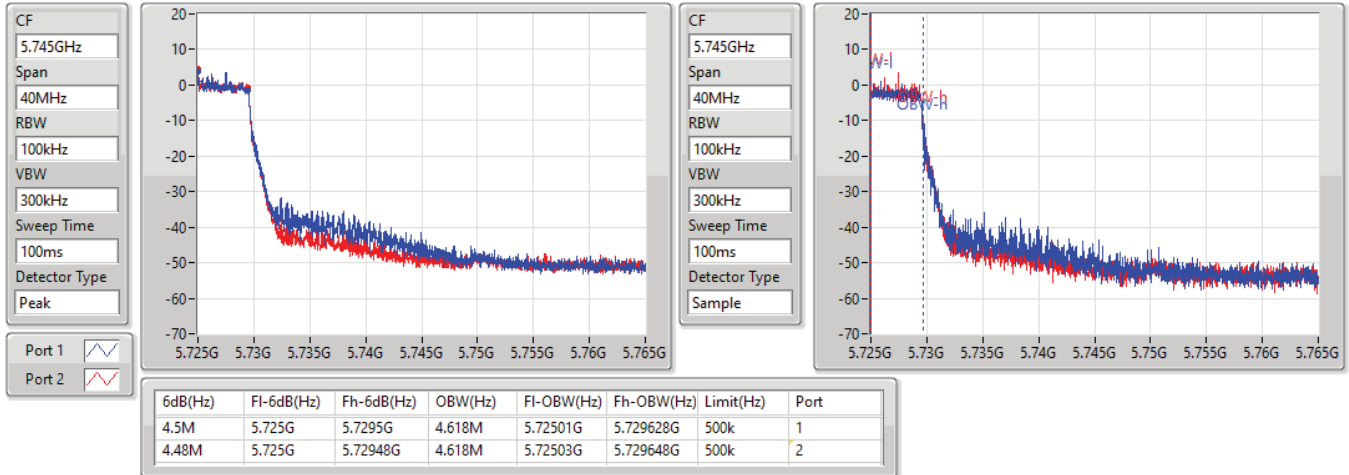


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

28/07/2021

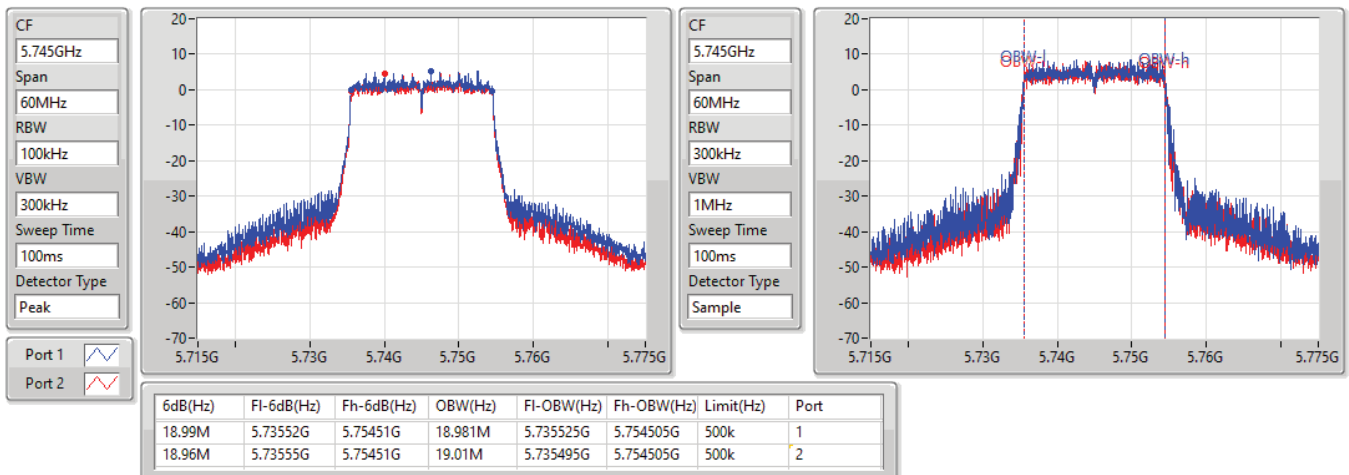


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

28/07/2021

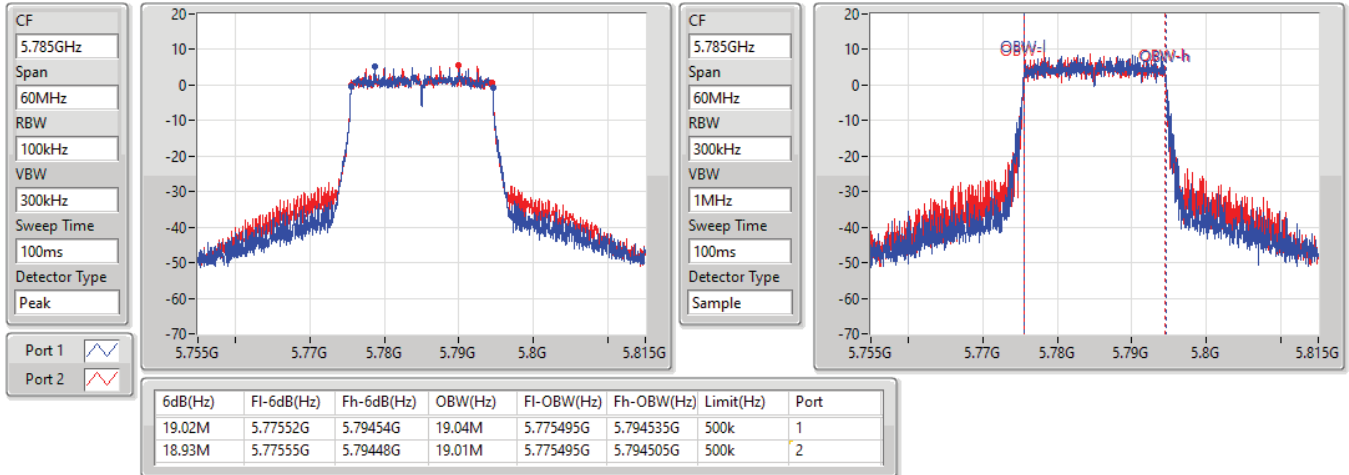


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5785MHz

28/07/2021

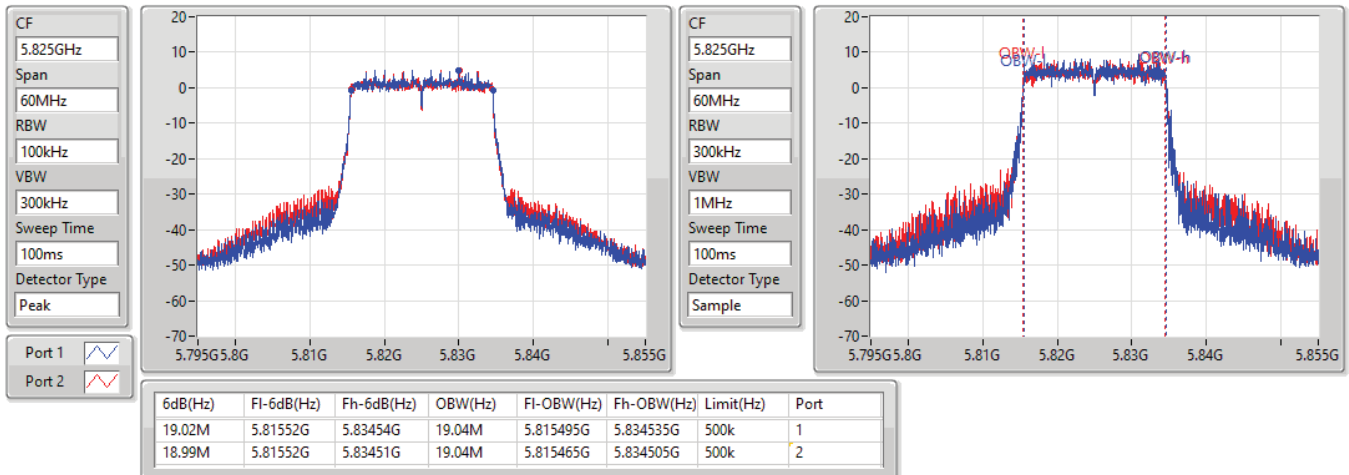


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

28/07/2021

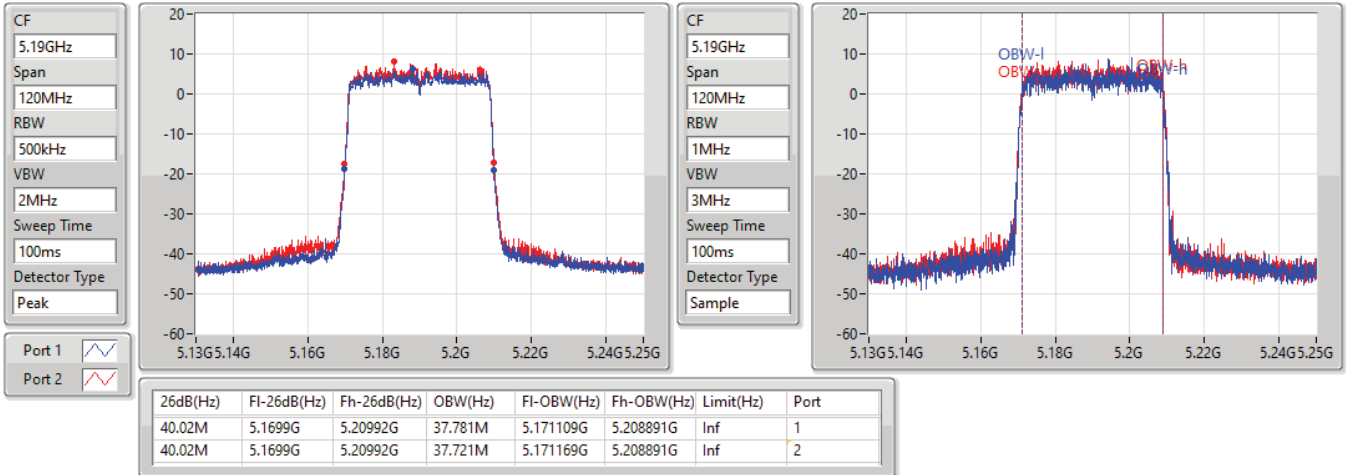


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

28/07/2021

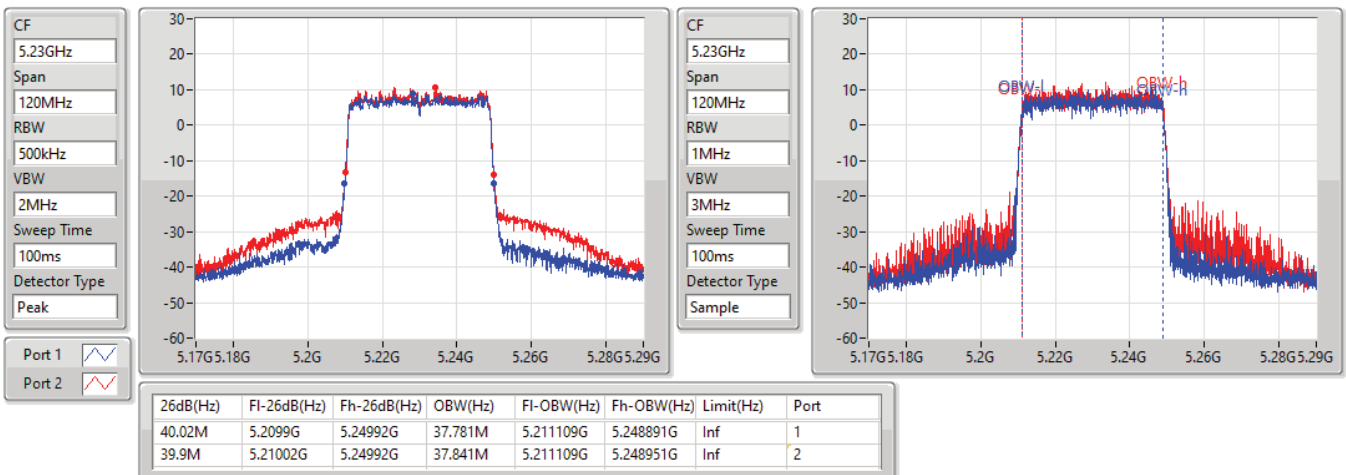


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

28/07/2021

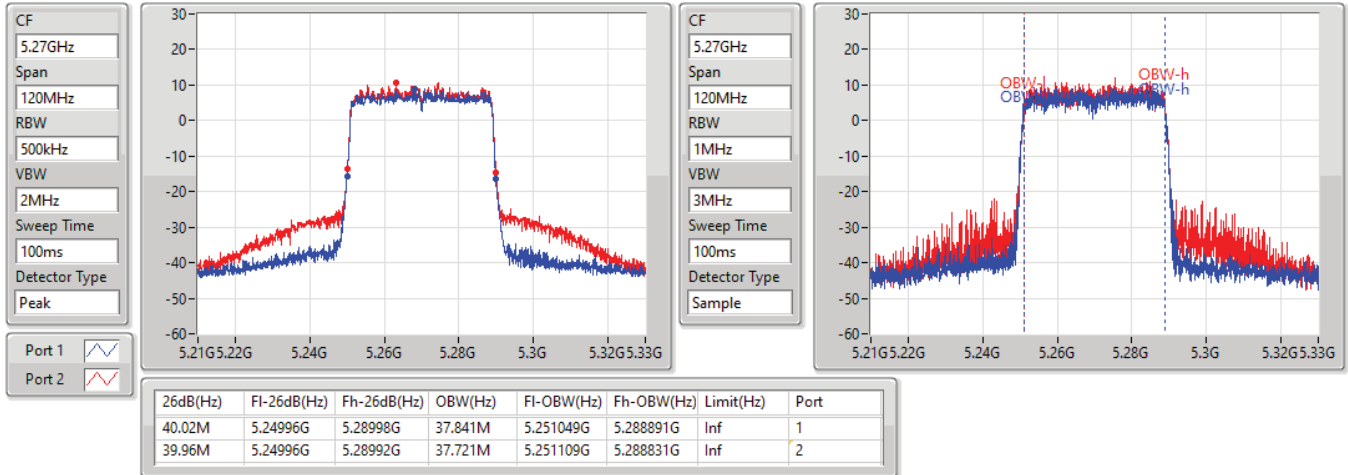


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5270MHz

28/07/2021

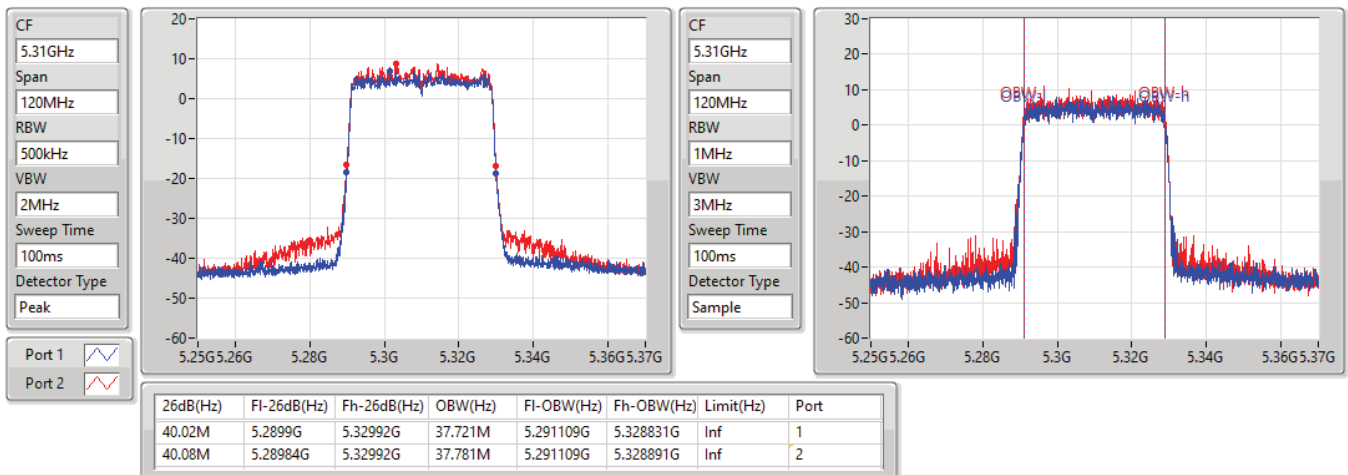


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5310MHz

28/07/2021

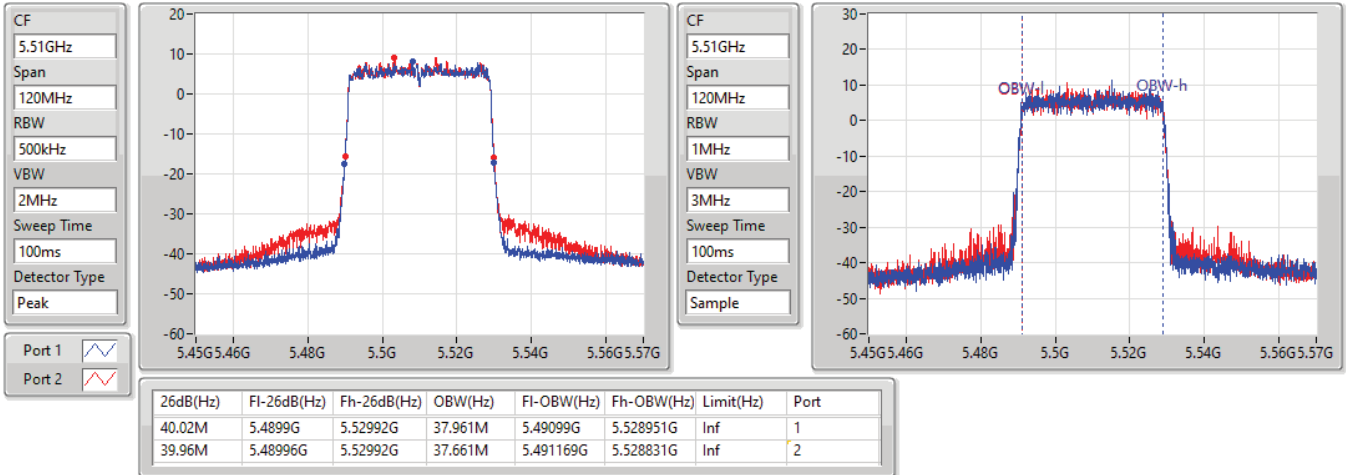


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5510MHz

28/07/2021

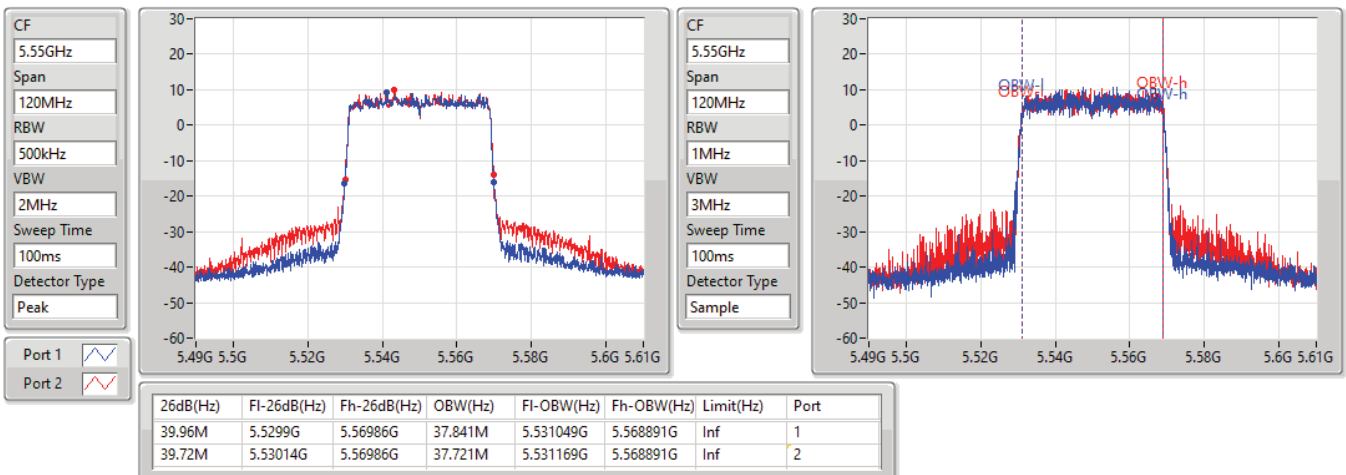


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5550MHz

28/07/2021

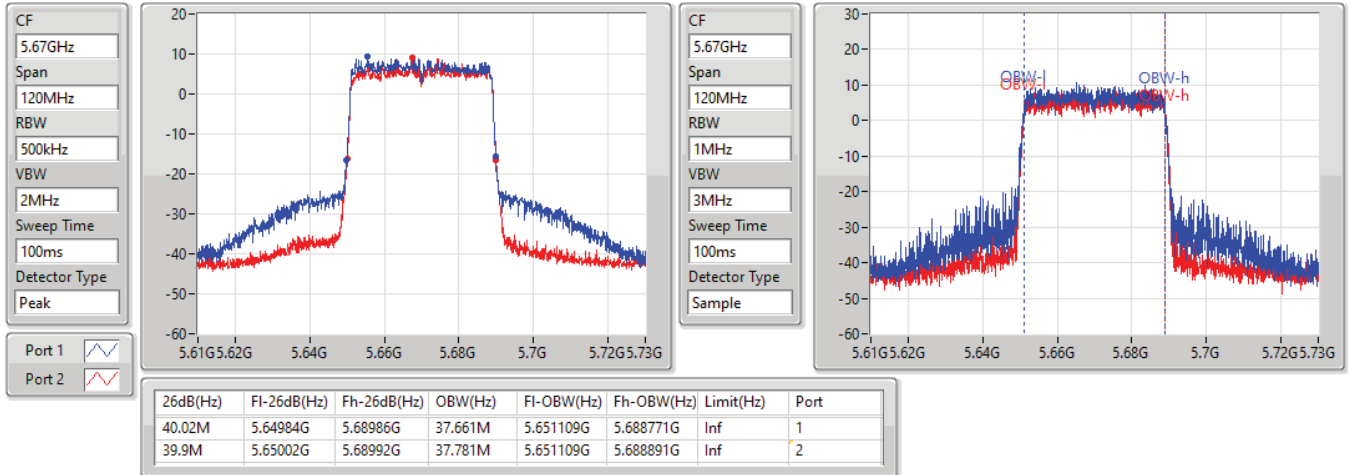


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5670MHz

28/07/2021

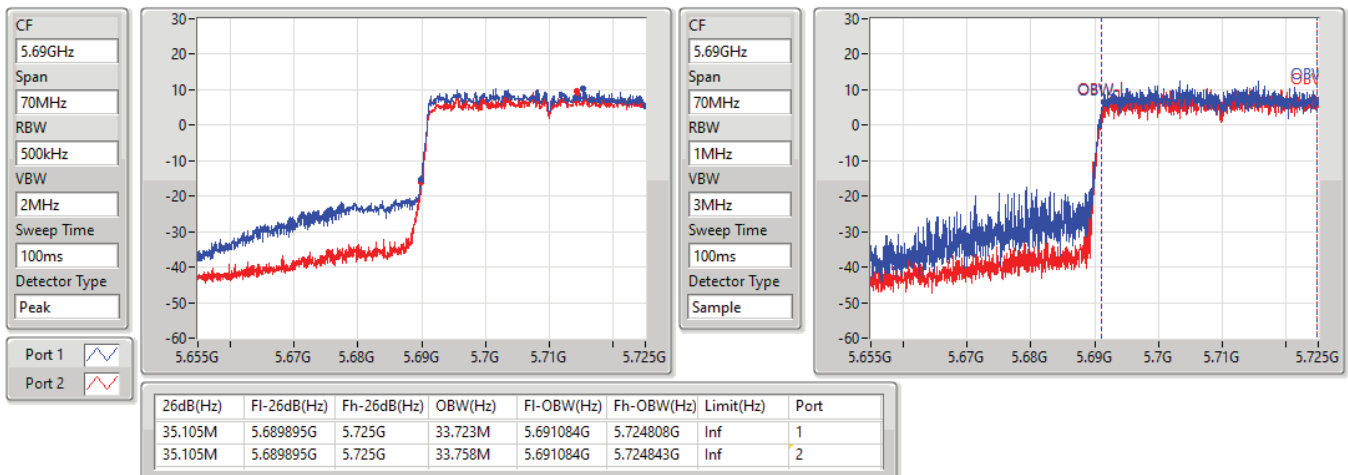


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.47-5.725GHz

28/07/2021

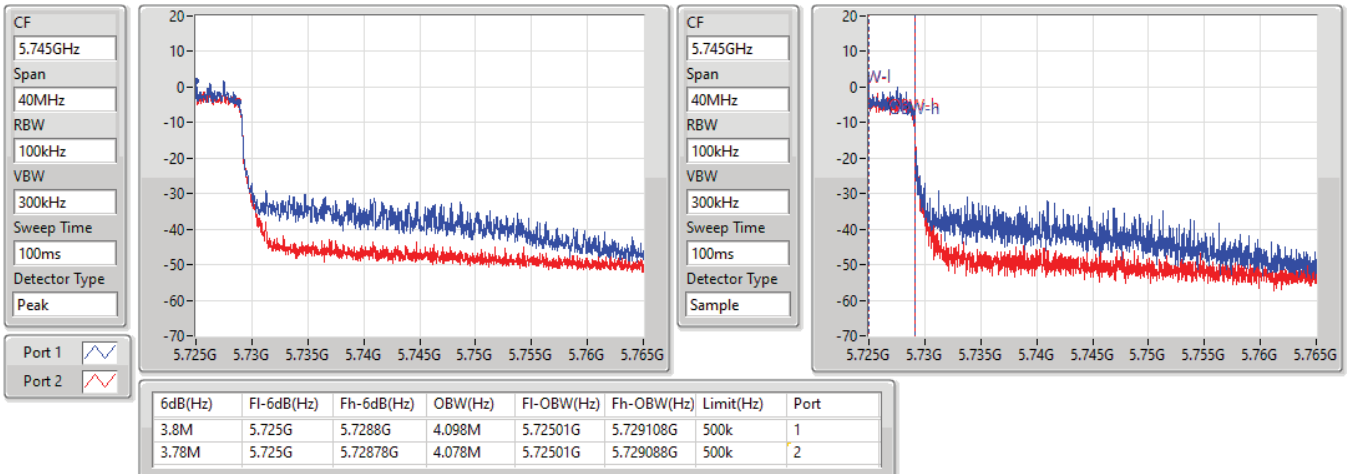


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5710MHz Straddle 5.725-5.85GHz

28/07/2021

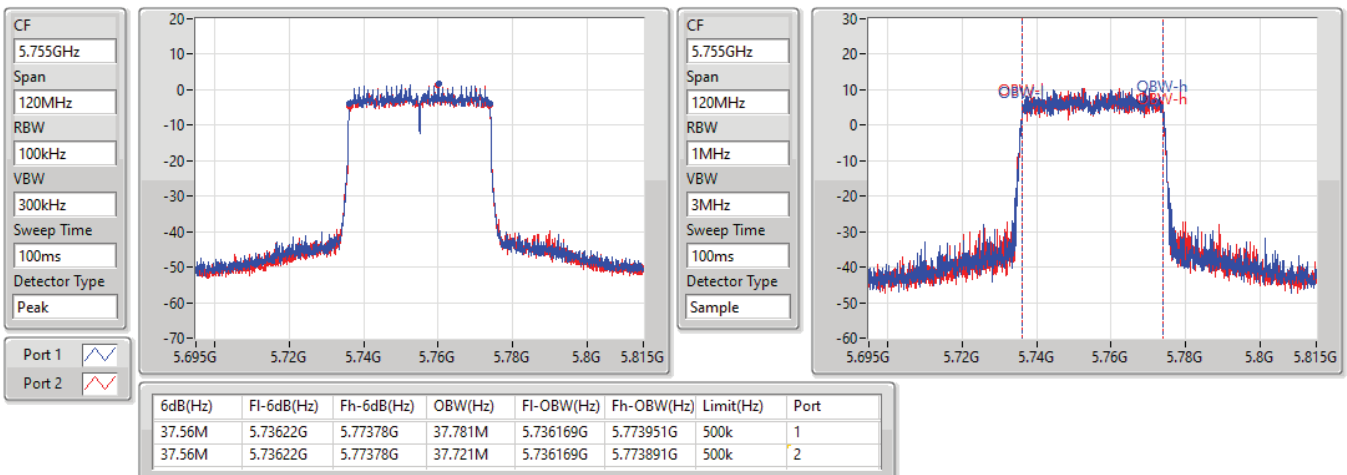


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

28/07/2021

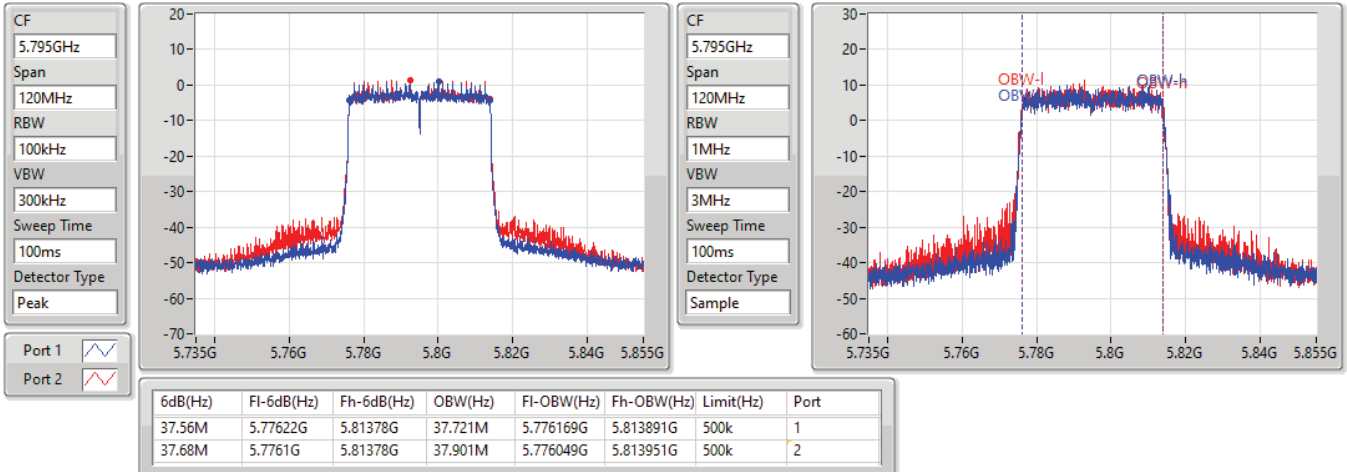


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5795MHz

28/07/2021

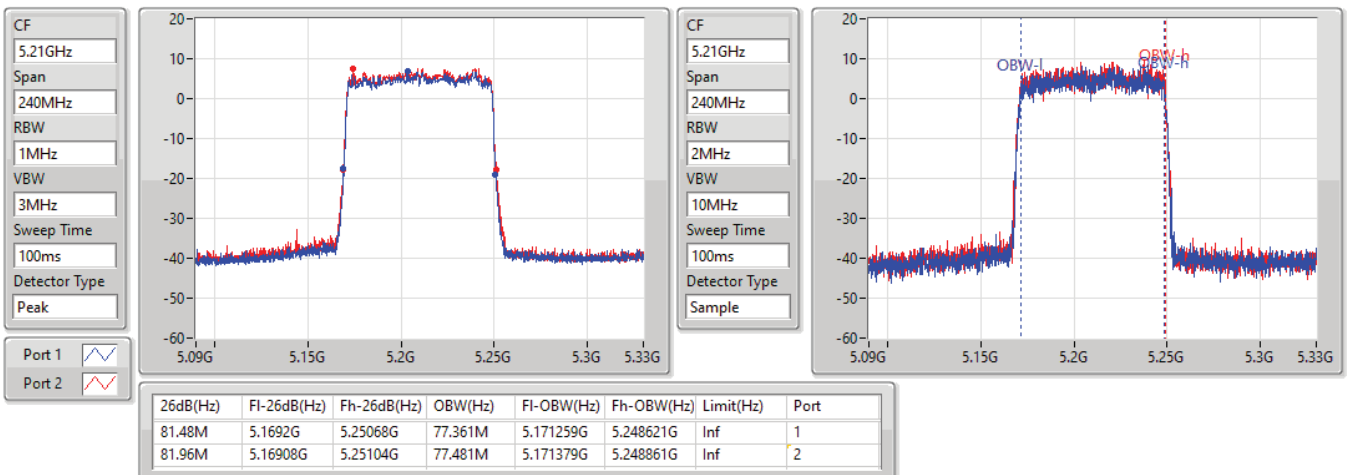


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

28/07/2021

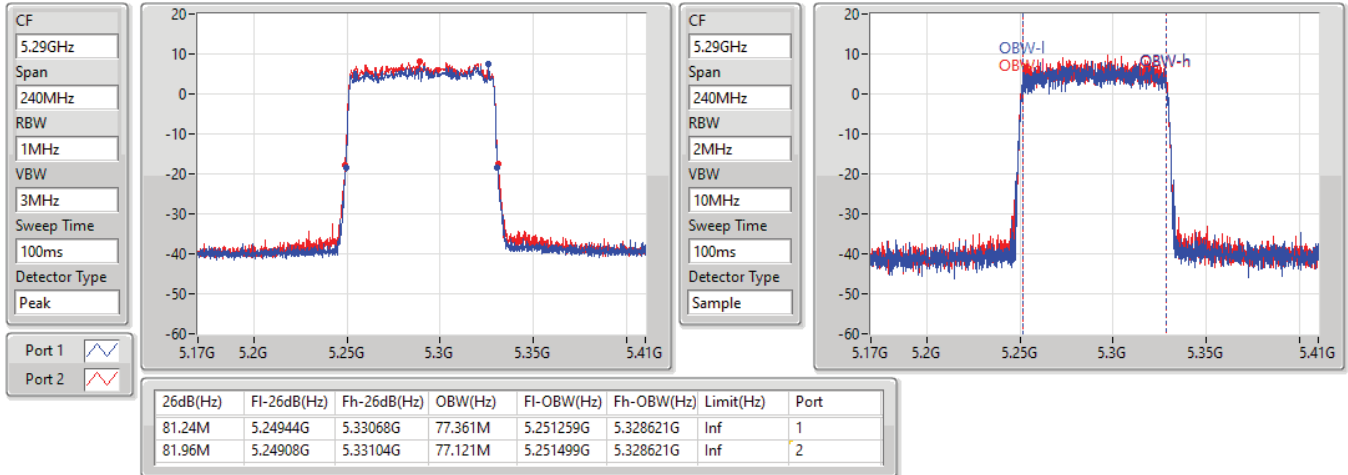


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

28/07/2021

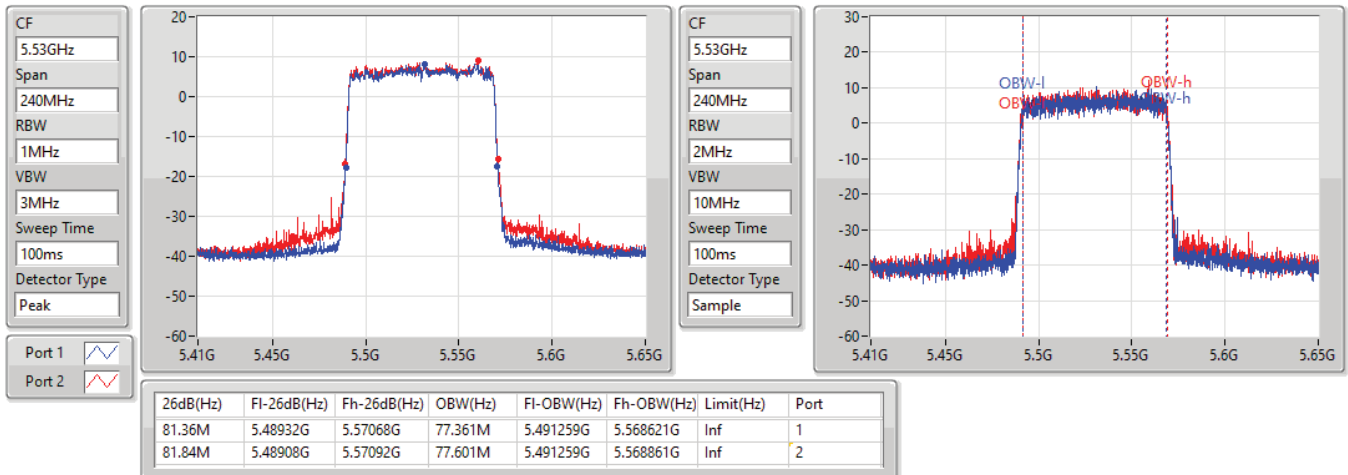


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5530MHz

28/07/2021

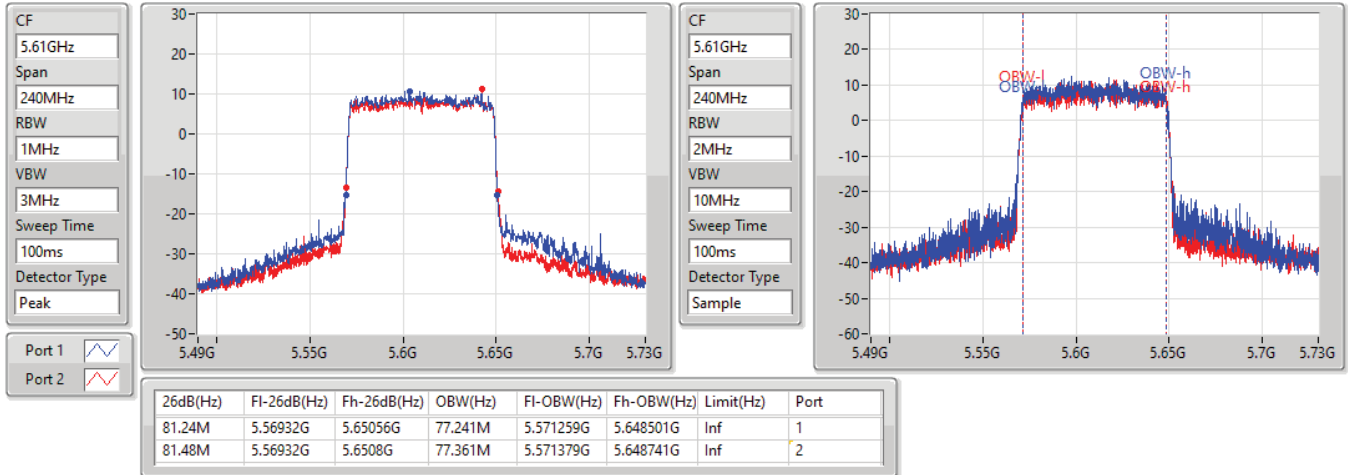


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5610MHz

28/07/2021

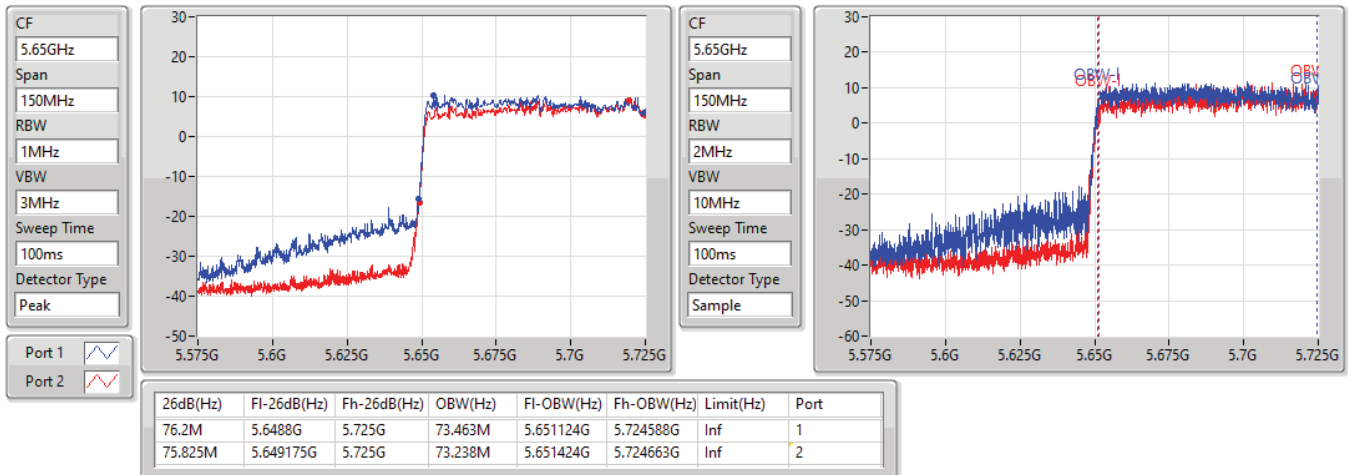


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

28/07/2021

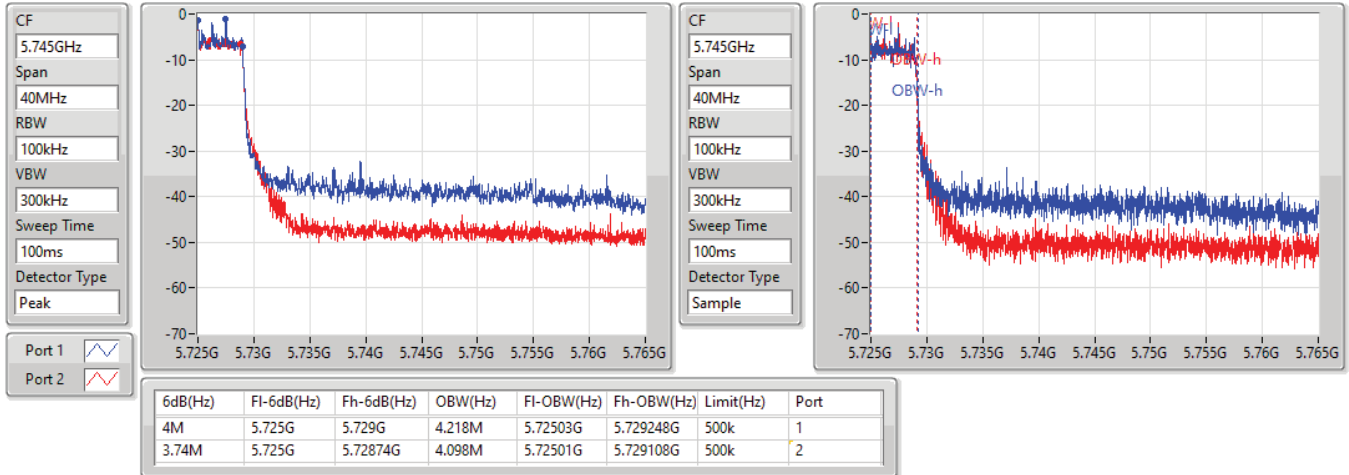


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

28/07/2021

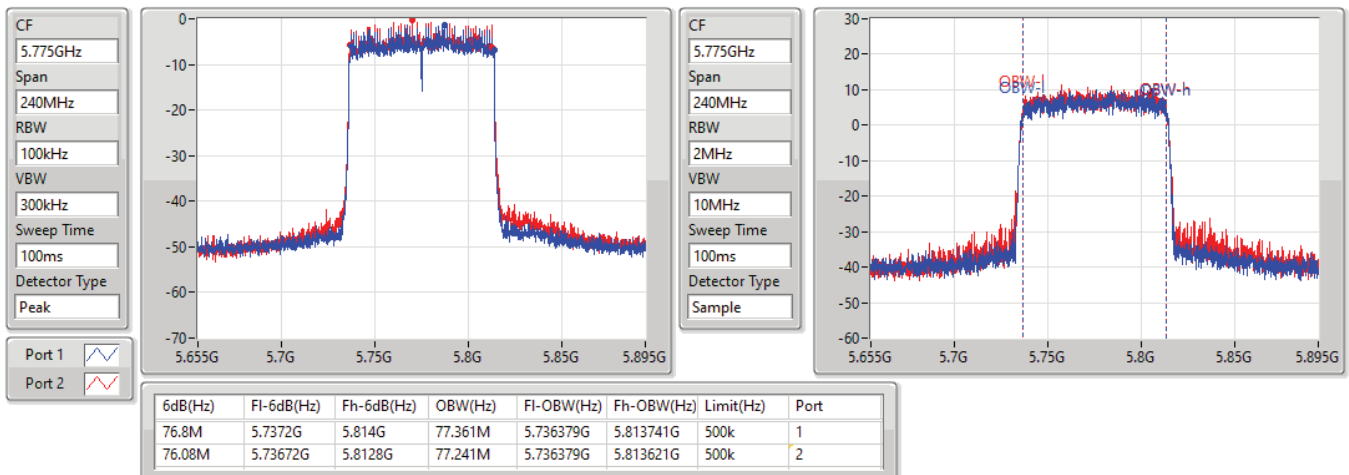


802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

28/07/2021



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.81M	19.07M	19M1D1D	21.48M	19.07M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.08M	37.781M	37M8D1D	40.02M	37.781M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.48M	77.601M	77M6D1D	81.12M	77.481M
5.25-5.35GHz	-	-	-	-	-
802.11ax HEW40_Nss2,(MCS0)_2TX	40.02M	37.841M	37M8D1D	39.96M	37.781M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.48M	77.481M	77M5D1D	81M	77.481M
5.47-5.725GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	21.72M	19.07M	19M1D1D	21.57M	19.04M
802.11ax HEW40_Nss2,(MCS0)_2TX	40.08M	37.781M	37M8D1D	39.9M	37.721M
802.11ax HEW80_Nss2,(MCS0)_2TX	81.84M	77.601M	77M6D1D	81M	77.361M

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)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.81M	19.07M	21.48M	19.07M
5700MHz	Pass	Inf	21.72M	19.07M	21.57M	19.04M
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.08M	37.781M	40.02M	37.781M
5310MHz	Pass	Inf	39.96M	37.841M	40.02M	37.781M
5510MHz	Pass	Inf	39.9M	37.781M	40.08M	37.721M
5670MHz	Pass	Inf	40.02M	37.781M	39.96M	37.721M
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.48M	77.481M	81.12M	77.601M
5290MHz	Pass	Inf	81.48M	77.481M	81M	77.481M
5530MHz	Pass	Inf	81.84M	77.601M	81M	77.361M

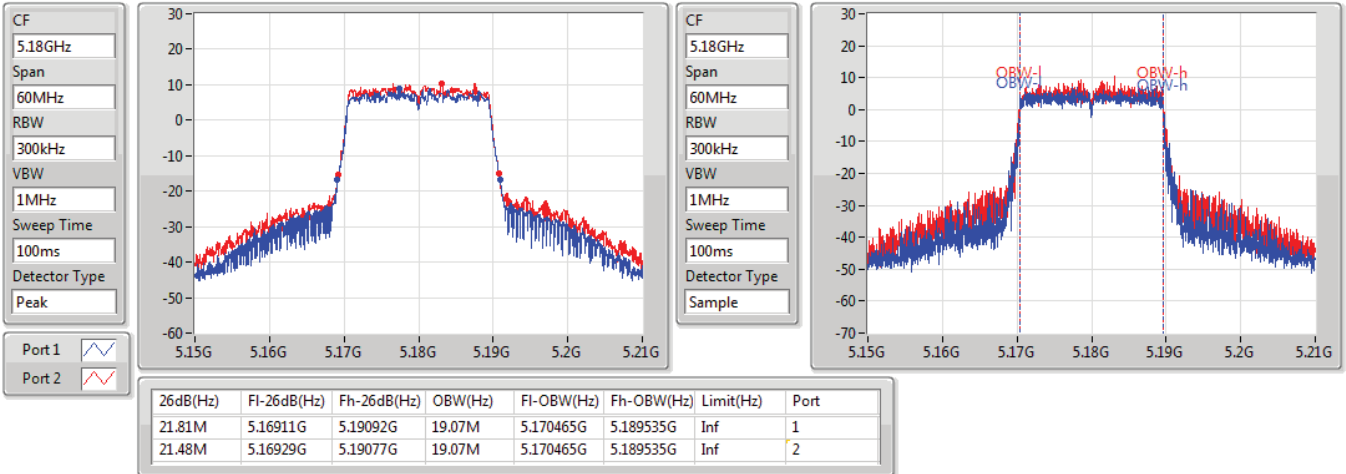
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5180MHz

02/08/2021

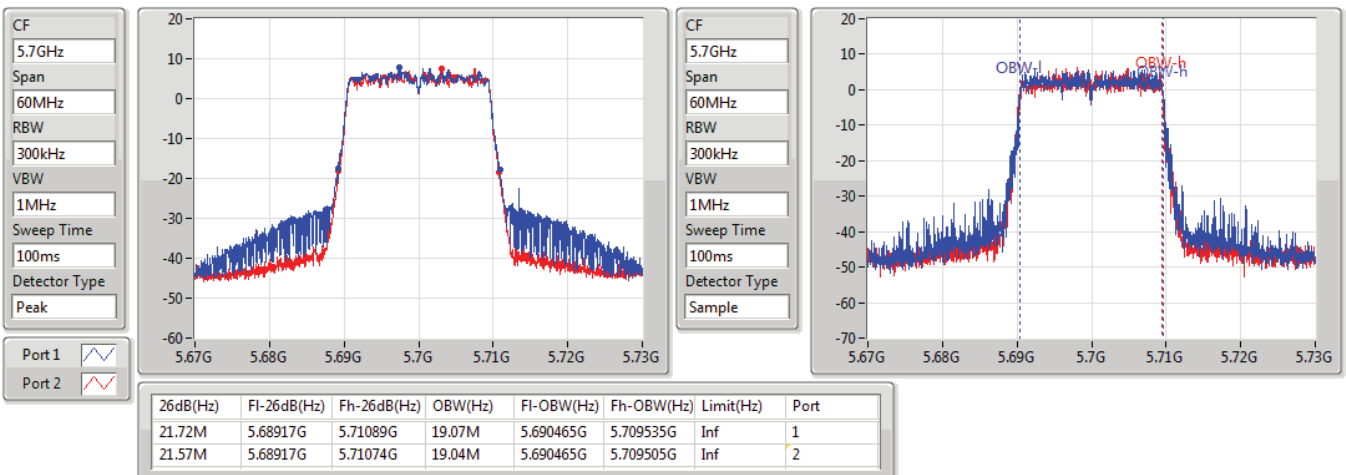


802.11ax HEW20_Nss2,(MCS0)_2TX

EBW

5700MHz

02/08/2021

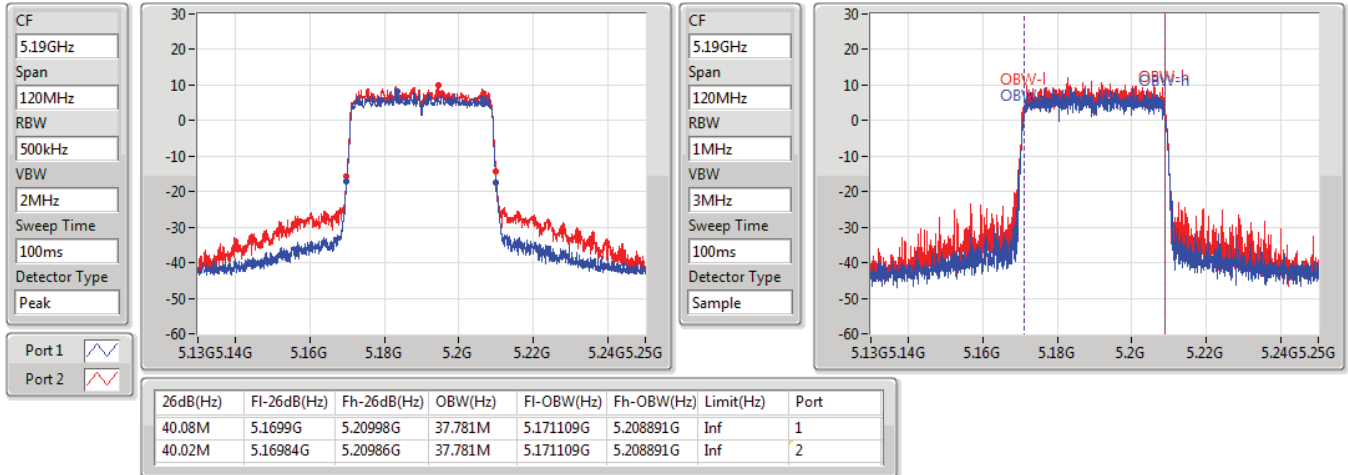


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5190MHz

02/08/2021

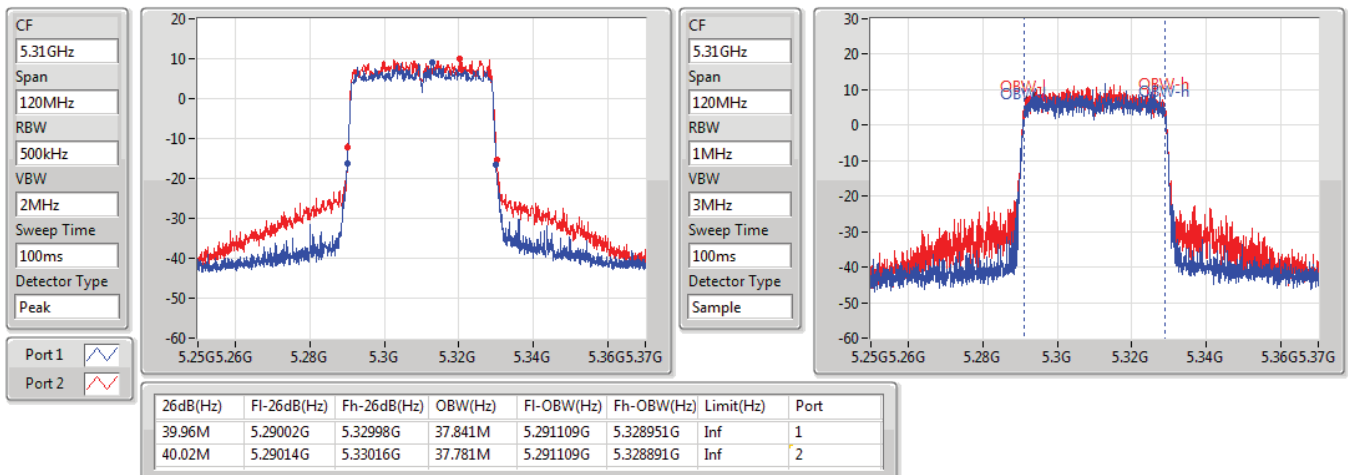


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5310MHz

02/08/2021

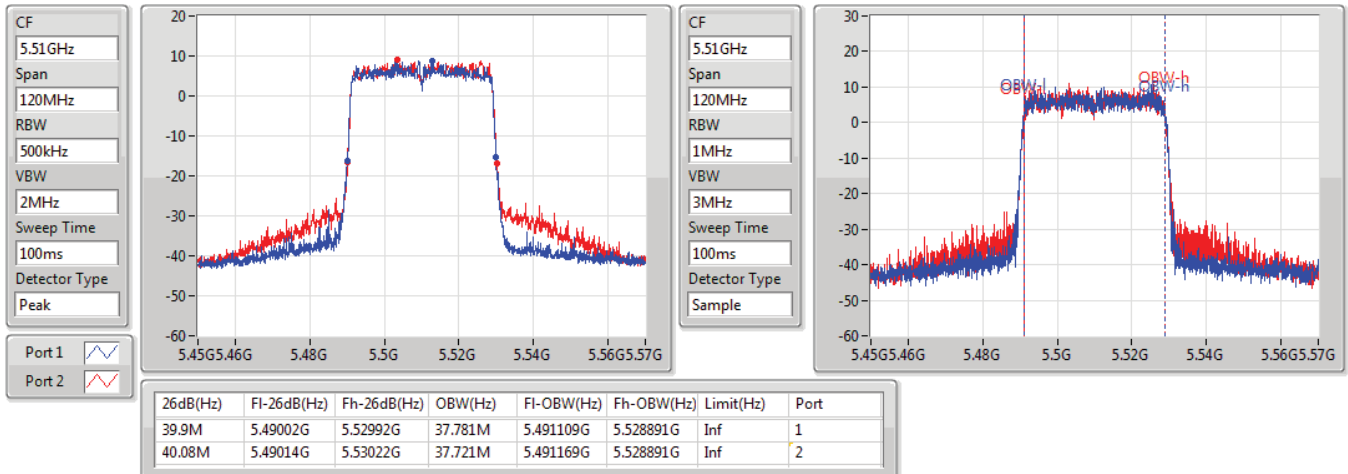


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5510MHz

02/08/2021

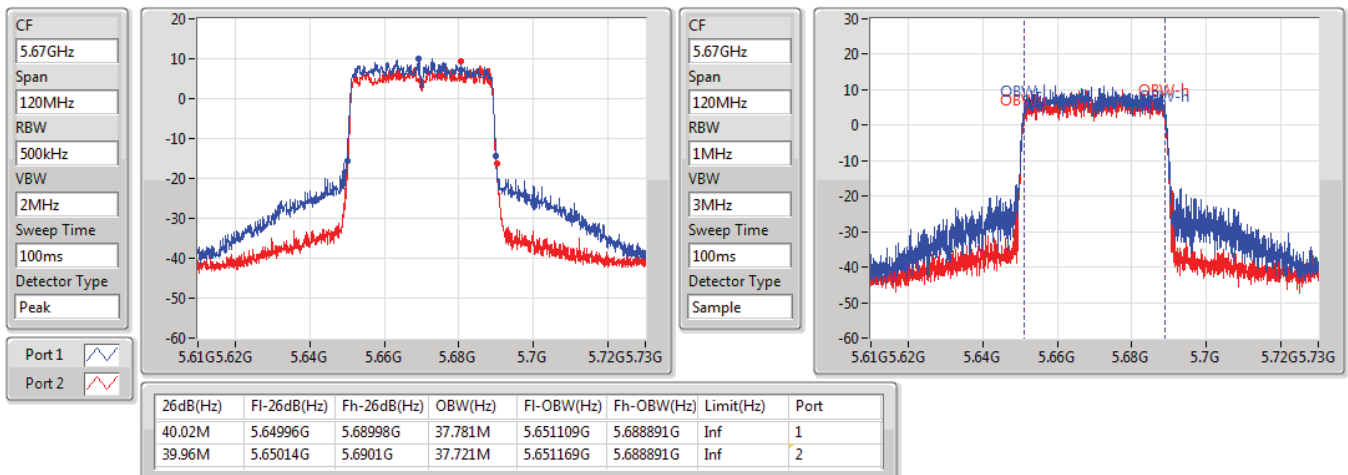


802.11ax HEW40_Nss2,(MCS0)_2TX

EBW

5670MHz

02/08/2021

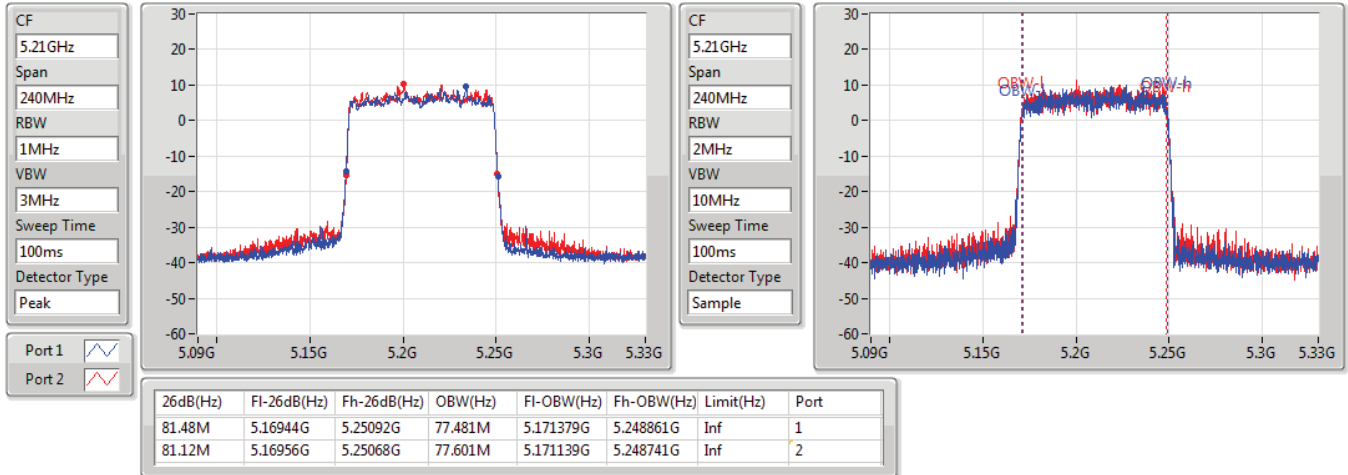


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5210MHz

02/08/2021

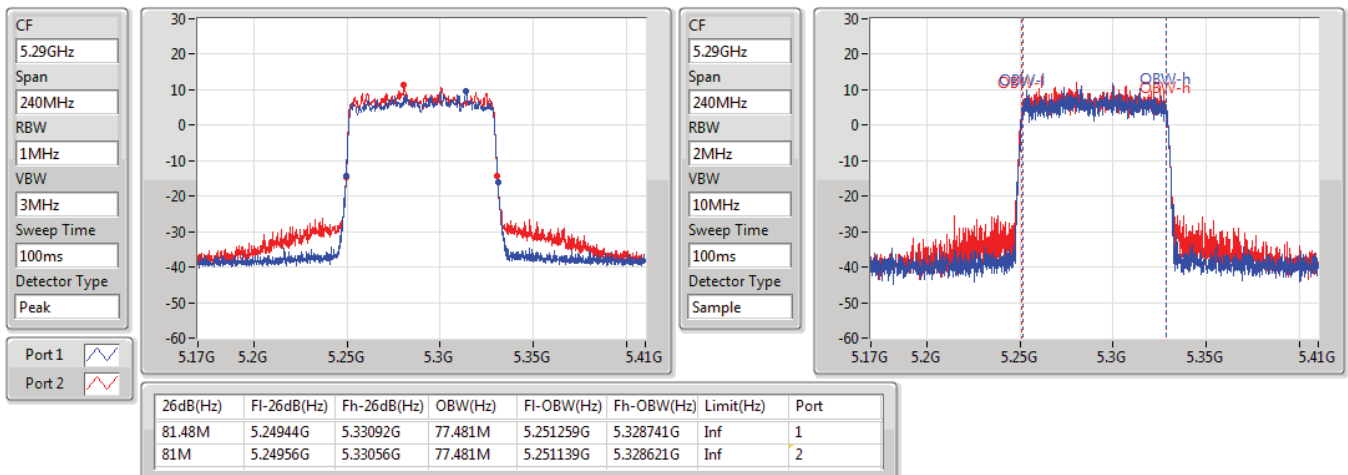


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5290MHz

02/08/2021

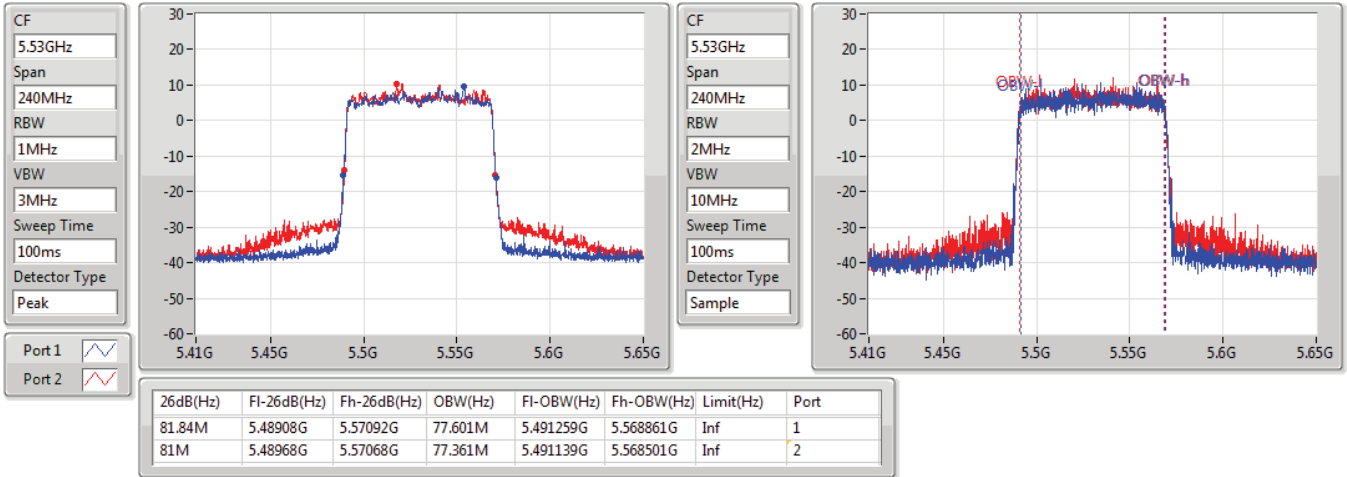


802.11ax HEW80_Nss2,(MCS0)_2TX

EBW

5530MHz

02/08/2021





Average Power_Non-Beamforming_2T1S

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	19.96	0.09908	23.96	0.24889
11a40_Nss1,(6Mbps)_2TX	19.79	0.09528	23.79	0.23933
11a80_Nss1,(6Mbps)_2TX	17.08	0.05105	21.08	0.12823
802.11ac VHT20_Nss1,(MCS0)_2TX	19.87	0.09705	23.87	0.24378
802.11ac VHT40_Nss1,(MCS0)_2TX	19.76	0.09462	23.76	0.23768
802.11ac VHT80_Nss1,(MCS0)_2TX	16.84	0.04831	20.84	0.12134
802.11ax HEW20_Nss1,(MCS0)_2TX	20.19	0.10447	24.19	0.26242
802.11ax HEW40_Nss1,(MCS0)_2TX	19.99	0.09977	23.99	0.25061
802.11ax HEW80_Nss1,(MCS0)_2TX	17.20	0.05248	21.20	0.13183
5.25-5.35GHz	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	19.91	0.09795	23.91	0.24604
11a40_Nss1,(6Mbps)_2TX	19.55	0.09016	23.55	0.22646
11a80_Nss1,(6Mbps)_2TX	17.59	0.05741	21.59	0.14421
802.11ac VHT20_Nss1,(MCS0)_2TX	19.81	0.09572	23.81	0.24044
802.11ac VHT40_Nss1,(MCS0)_2TX	19.53	0.08974	23.53	0.22542
802.11ac VHT80_Nss1,(MCS0)_2TX	17.49	0.05610	21.49	0.14093
802.11ax HEW20_Nss1,(MCS0)_2TX	20.04	0.10093	24.04	0.25351
802.11ax HEW40_Nss1,(MCS0)_2TX	19.76	0.09462	23.76	0.23768
802.11ax HEW80_Nss1,(MCS0)_2TX	17.75	0.05957	21.75	0.14962
5.47-5.725GHz	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	19.16	0.08241	23.16	0.20701
11a40_Nss1,(6Mbps)_2TX	19.56	0.09036	23.56	0.22699
11a80_Nss1,(6Mbps)_2TX	19.81	0.09572	23.81	0.24044
802.11ac VHT20_Nss1,(MCS0)_2TX	19.46	0.08831	23.46	0.22182
802.11ac VHT40_Nss1,(MCS0)_2TX	19.38	0.08670	23.38	0.21777
802.11ac VHT80_Nss1,(MCS0)_2TX	19.72	0.09376	23.72	0.23550
802.11ax HEW20_Nss1,(MCS0)_2TX	19.73	0.09397	23.73	0.23605
802.11ax HEW40_Nss1,(MCS0)_2TX	19.53	0.08974	23.53	0.22542
802.11ax HEW80_Nss1,(MCS0)_2TX	20.28	0.10666	24.28	0.26792
5.725-5.85GHz	-	-	-	-
11a20_Nss1,(6Mbps)_2TX	20.10	0.10233	24.10	0.25704
11a40_Nss1,(6Mbps)_2TX	19.03	0.07998	23.03	0.20091
11a80_Nss1,(6Mbps)_2TX	19.04	0.08017	23.04	0.20137
802.11ac VHT20_Nss1,(MCS0)_2TX	19.93	0.09840	23.93	0.24717
802.11ac VHT40_Nss1,(MCS0)_2TX	18.92	0.07798	22.92	0.19588
802.11ac VHT80_Nss1,(MCS0)_2TX	18.95	0.07852	22.95	0.19724
802.11ax HEW20_Nss1,(MCS0)_2TX	20.33	0.10789	24.33	0.27102
802.11ax HEW40_Nss1,(MCS0)_2TX	19.32	0.08551	23.32	0.21478
802.11ax HEW80_Nss1,(MCS0)_2TX	19.26	0.08433	23.26	0.21184



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
11a20_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	16.40	17.44	19.96	30.00	23.96	36.00
5200MHz	Pass	4.00	16.59	17.28	19.96	30.00	23.96	36.00
5240MHz	Pass	4.00	16.35	17.45	19.95	30.00	23.95	36.00
5260MHz	Pass	4.00	16.08	17.13	19.65	23.98	23.65	30.00
5300MHz	Pass	4.00	15.95	17.37	19.73	23.98	23.73	30.00
5320MHz	Pass	4.00	16.02	17.63	19.91	23.98	23.91	30.00
5500MHz	Pass	4.00	15.06	15.77	18.44	23.98	22.44	30.00
5580MHz	Pass	4.00	15.62	16.63	19.16	23.98	23.16	30.00
5700MHz	Pass	4.00	16.15	15.76	18.97	23.98	22.97	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	15.14	14.97	18.07	22.91	22.07	28.91
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	8.90	9.08	12.00	30.00	16.00	36.00
5745MHz	Pass	4.00	17.30	16.72	20.03	30.00	24.03	36.00
5785MHz	Pass	4.00	17.04	17.14	20.10	30.00	24.10	36.00
5825MHz	Pass	4.00	17.19	16.91	20.06	30.00	24.06	36.00
11a40_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	13.41	14.21	16.84	30.00	20.84	36.00
5230MHz	Pass	4.00	16.19	17.30	19.79	30.00	23.79	36.00
5270MHz	Pass	4.00	16.01	17.01	19.55	23.98	23.55	30.00
5310MHz	Pass	4.00	14.10	15.16	17.67	23.98	21.67	30.00
5510MHz	Pass	4.00	14.16	14.52	17.35	23.98	21.35	30.00
5550MHz	Pass	4.00	16.28	16.45	19.38	23.98	23.38	30.00
5670MHz	Pass	4.00	17.14	15.86	19.56	23.98	23.56	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.00	16.88	15.55	19.28	23.98	23.28	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	6.71	6.12	9.44	30.00	13.44	36.00
5755MHz	Pass	4.00	16.04	15.99	19.03	30.00	23.03	36.00
5795MHz	Pass	4.00	15.81	16.16	19.00	30.00	23.00	36.00
11a80_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	13.79	14.33	17.08	30.00	21.08	36.00
5290MHz	Pass	4.00	14.16	14.96	17.59	23.98	21.59	30.00
5530MHz	Pass	4.00	13.12	13.74	16.45	23.98	20.45	30.00
5610MHz	Pass	4.00	17.14	16.42	19.81	23.98	23.81	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.00	17.42	15.82	19.70	23.98	23.70	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	3.24	3.26	6.26	30.00	10.26	36.00
5775MHz	Pass	4.00	15.62	16.41	19.04	30.00	23.04	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	15.00	16.60	18.88	30.00	22.88	36.00
5200MHz	Pass	4.00	16.26	17.35	19.85	30.00	23.85	36.00
5240MHz	Pass	4.00	16.33	17.34	19.87	30.00	23.87	36.00
5260MHz	Pass	4.00	15.90	17.25	19.64	23.98	23.64	30.00
5300MHz	Pass	4.00	15.85	17.49	19.76	23.98	23.76	30.00
5320MHz	Pass	4.00	15.83	17.60	19.81	23.98	23.81	30.00
5500MHz	Pass	4.00	16.06	16.81	19.46	23.98	23.46	30.00
5580MHz	Pass	4.00	15.83	16.72	19.31	23.98	23.31	30.00
5700MHz	Pass	4.00	13.87	14.06	16.98	23.98	20.98	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	14.67	14.55	17.62	23.98	21.62	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	8.81	9.24	12.04	30.00	16.04	36.00
5745MHz	Pass	4.00	17.08	16.67	19.89	30.00	23.89	36.00
5785MHz	Pass	4.00	16.97	16.87	19.93	30.00	23.93	36.00
5825MHz	Pass	4.00	16.93	16.81	19.88	30.00	23.88	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	13.11	14.28	16.74	30.00	20.74	36.00
5230MHz	Pass	4.00	16.10	17.31	19.76	30.00	23.76	36.00
5270MHz	Pass	4.00	15.88	17.07	19.53	23.98	23.53	30.00
5310MHz	Pass	4.00	14.08	15.27	17.73	23.98	21.73	30.00



Average Power_Non-Beamforming_2T1S

Appendix C.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5510MHz	Pass	4.00	15.05	15.59	18.34	23.98	22.34	30.00
5550MHz	Pass	4.00	16.12	16.61	19.38	23.98	23.38	30.00
5670MHz	Pass	4.00	16.20	14.90	18.61	23.98	22.61	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.00	16.49	15.32	18.95	23.98	22.95	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	6.08	5.59	8.85	30.00	12.85	36.00
5755MHz	Pass	4.00	15.97	15.84	18.92	30.00	22.92	36.00
5795MHz	Pass	4.00	15.80	16.00	18.91	30.00	22.91	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	13.32	14.29	16.84	30.00	20.84	36.00
5290MHz	Pass	4.00	13.75	15.10	17.49	23.98	21.49	30.00
5530MHz	Pass	4.00	15.11	15.68	18.41	23.98	22.41	30.00
5610MHz	Pass	4.00	17.05	16.34	19.72	23.98	23.72	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.00	16.95	15.79	19.42	23.98	23.42	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	2.32	2.23	5.29	30.00	9.29	36.00
5775MHz	Pass	4.00	15.50	16.33	18.95	30.00	22.95	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	15.36	16.55	19.01	30.00	23.01	36.00
5200MHz	Pass	4.00	16.78	17.52	20.18	30.00	24.18	36.00
5240MHz	Pass	4.00	16.66	17.64	20.19	30.00	24.19	36.00
5260MHz	Pass	4.00	16.34	17.55	20.00	23.98	24.00	30.00
5300MHz	Pass	4.00	16.16	17.63	19.97	23.98	23.97	30.00
5320MHz	Pass	4.00	16.34	17.63	20.04	23.98	24.04	30.00
5500MHz	Pass	4.00	16.39	17.02	19.73	23.98	23.73	30.00
5580MHz	Pass	4.00	16.15	17.02	19.62	23.98	23.62	30.00
5700MHz	Pass	4.00	14.37	14.20	17.30	23.98	21.30	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	15.05	14.99	18.03	22.94	22.03	28.94
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	9.81	10.04	12.94	30.00	16.94	36.00
5745MHz	Pass	4.00	17.46	16.92	20.21	30.00	24.21	36.00
5785MHz	Pass	4.00	17.30	17.33	20.33	30.00	24.33	36.00
5825MHz	Pass	4.00	17.18	17.27	20.24	30.00	24.24	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	13.46	14.44	16.99	30.00	20.99	36.00
5230MHz	Pass	4.00	16.52	17.39	19.99	30.00	23.99	36.00
5270MHz	Pass	4.00	16.24	17.21	19.76	23.98	23.76	30.00
5310MHz	Pass	4.00	14.40	15.35	17.91	23.98	21.91	30.00
5510MHz	Pass	4.00	15.55	15.71	18.64	23.98	22.64	30.00
5550MHz	Pass	4.00	16.36	16.68	19.53	23.98	23.53	30.00
5670MHz	Pass	4.00	16.53	15.23	18.94	23.98	22.94	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.00	17.14	15.79	19.53	23.98	23.53	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	7.16	6.51	9.86	30.00	13.86	36.00
5755MHz	Pass	4.00	16.34	16.28	19.32	30.00	23.32	36.00
5795MHz	Pass	4.00	16.00	16.36	19.19	30.00	23.19	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	13.79	14.56	17.20	30.00	21.20	36.00
5290MHz	Pass	4.00	14.23	15.19	17.75	23.98	21.75	30.00
5530MHz	Pass	4.00	15.45	15.85	18.66	23.98	22.66	30.00
5610MHz	Pass	4.00	17.45	16.69	20.10	23.98	24.10	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.00	17.98	16.41	20.28	23.98	24.28	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	3.93	3.69	6.82	30.00	10.82	36.00
5775MHz	Pass	4.00	15.97	16.52	19.26	30.00	23.26	36.00

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

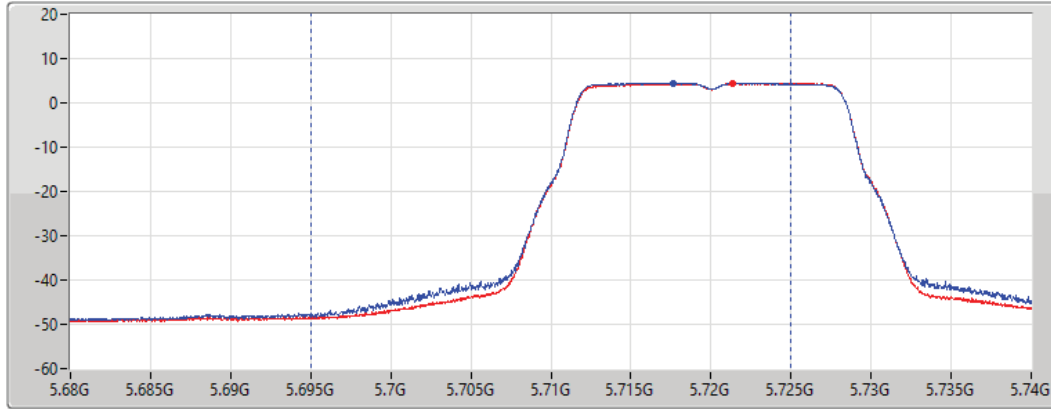
11a20_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

28/07/2021

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
18.07	15.14	14.97

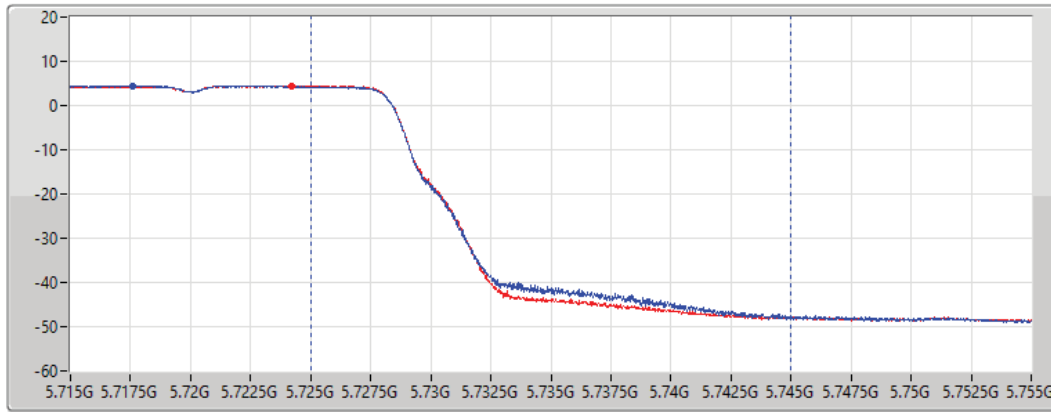
11a20_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

28/07/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
12.00	8.90	9.08

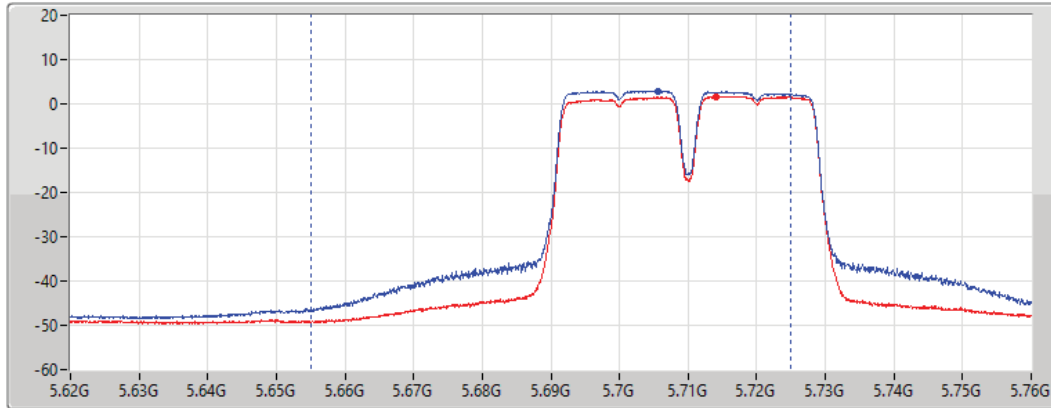
11a40_Nss1,(6Mbps)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

28/07/2021

CF
5.69GHz
Span
140MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
70MHz



Port 1 
Port 2 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
19.28	16.88	15.55

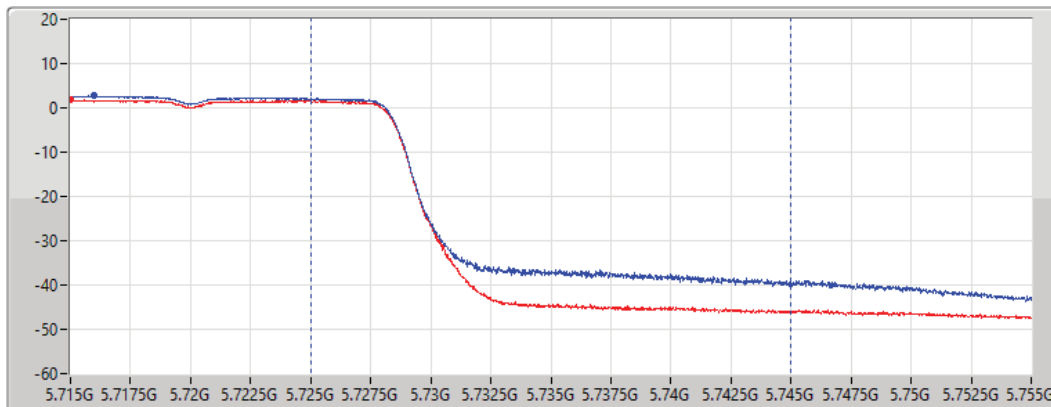
11a40_Nss1,(6Mbps)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

28/07/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1 
Port 2 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
9.44	6.71	6.12

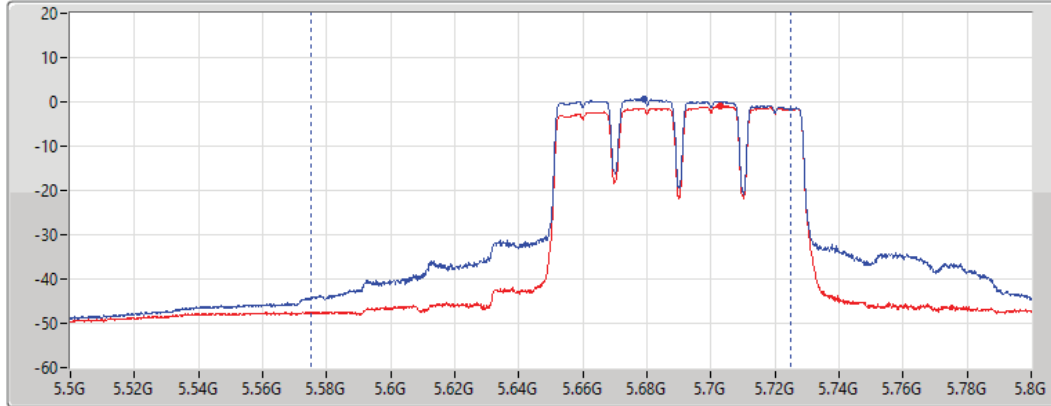
11a80_Nss1,(6Mbps)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

28/07/2021

CF
5.65GHz
Span
300MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
150MHz



Port 1 
Port 2 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
19.70	17.42	15.82

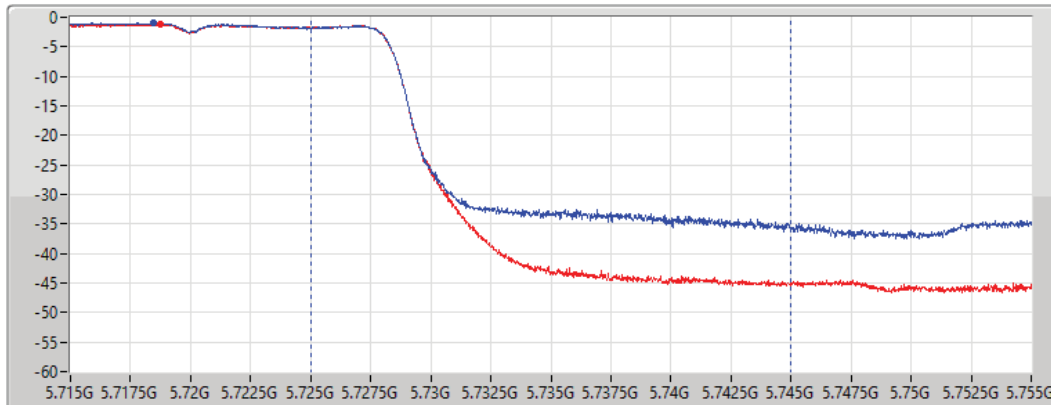
11a80_Nss1,(6Mbps)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

28/07/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1 
Port 2 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
6.26	3.24	3.26

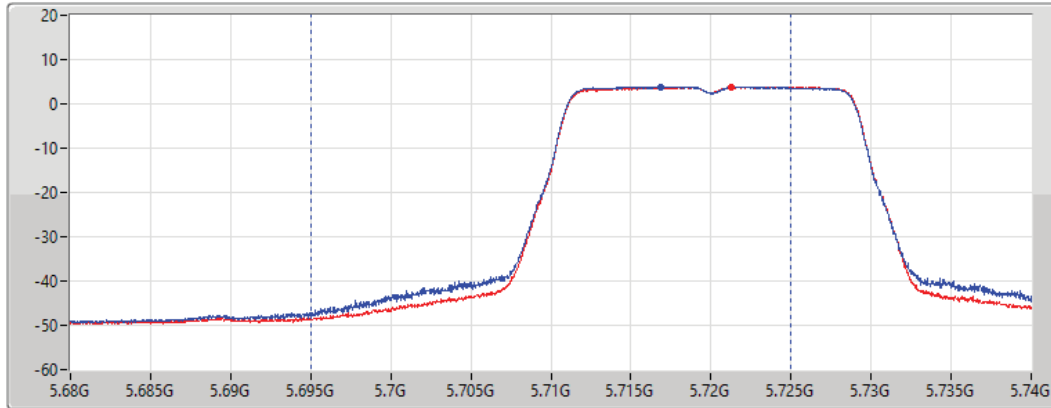
802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

30/07/2021

CF
5.71GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
30MHz



Port 1
Port 2

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
17.62	14.67	14.55

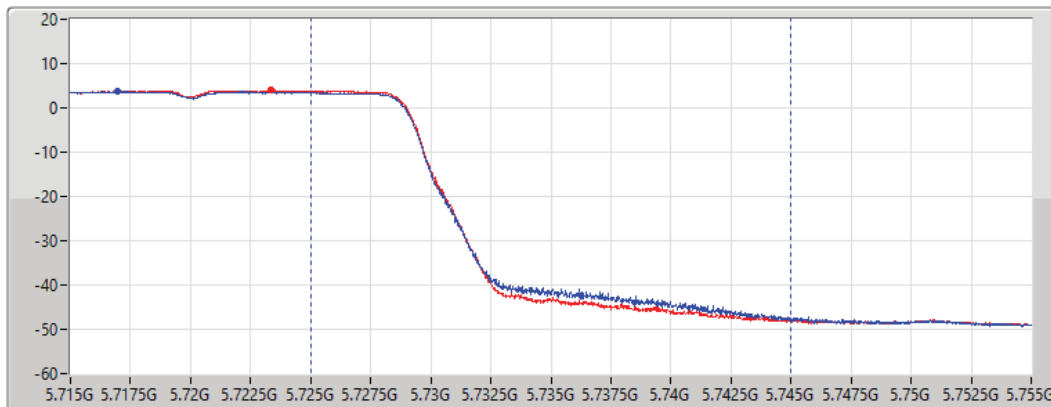
802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

30/07/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
12.04	8.81	9.24

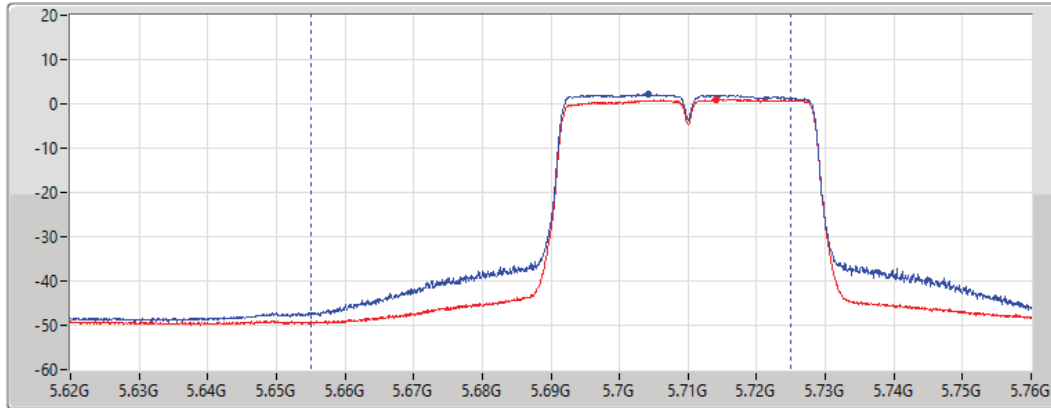
802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

30/07/2021

CF
5.69GHz
Span
140MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
70MHz



Port 1
Port 2

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
18.95	16.49	15.32

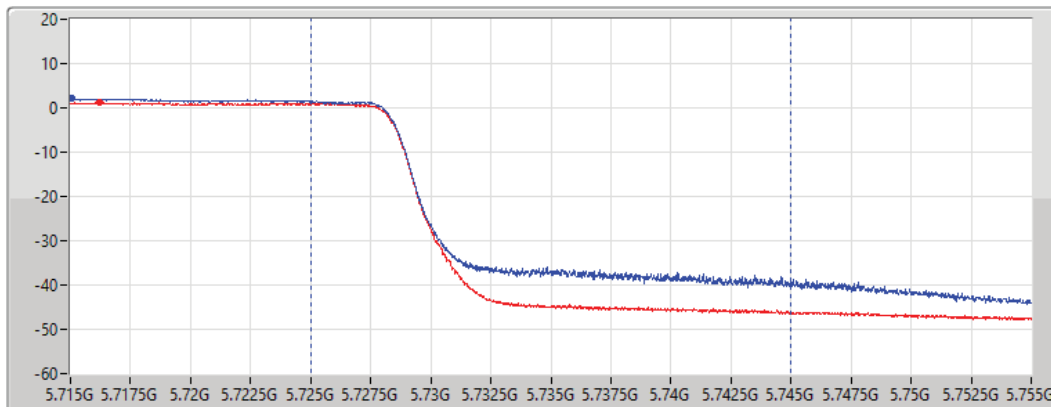
802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

30/07/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1
Port 2

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
8.85	6.08	5.59

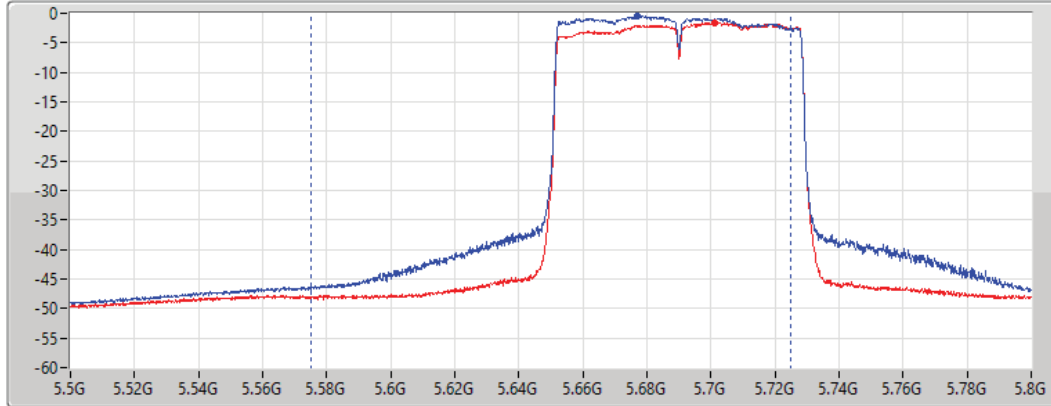
802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

30/07/2021

CF
5.65GHz
Span
300MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
150MHz



Port 1 
Port 2 

Sum= Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)
19.42	16.95	15.79

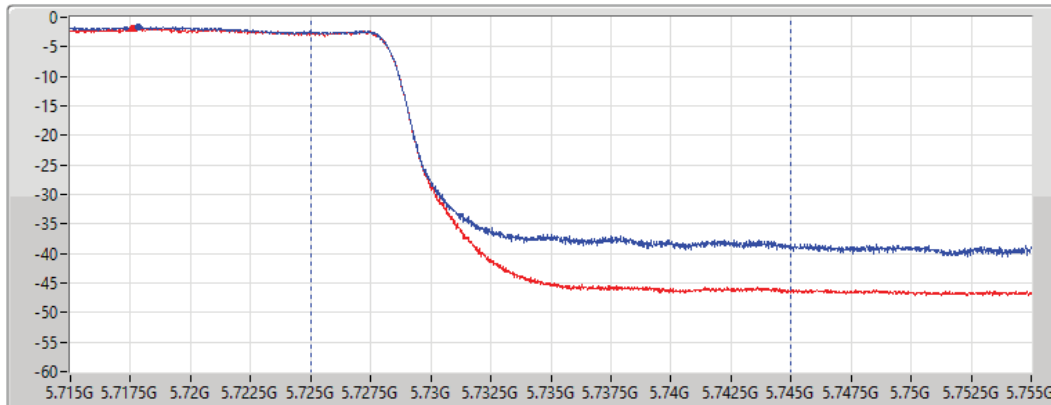
802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

30/07/2021

CF
5.735GHz
Span
40MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS
CP BW
20MHz



Port 1 
Port 2 

Sum= Total Power
PX=Port X

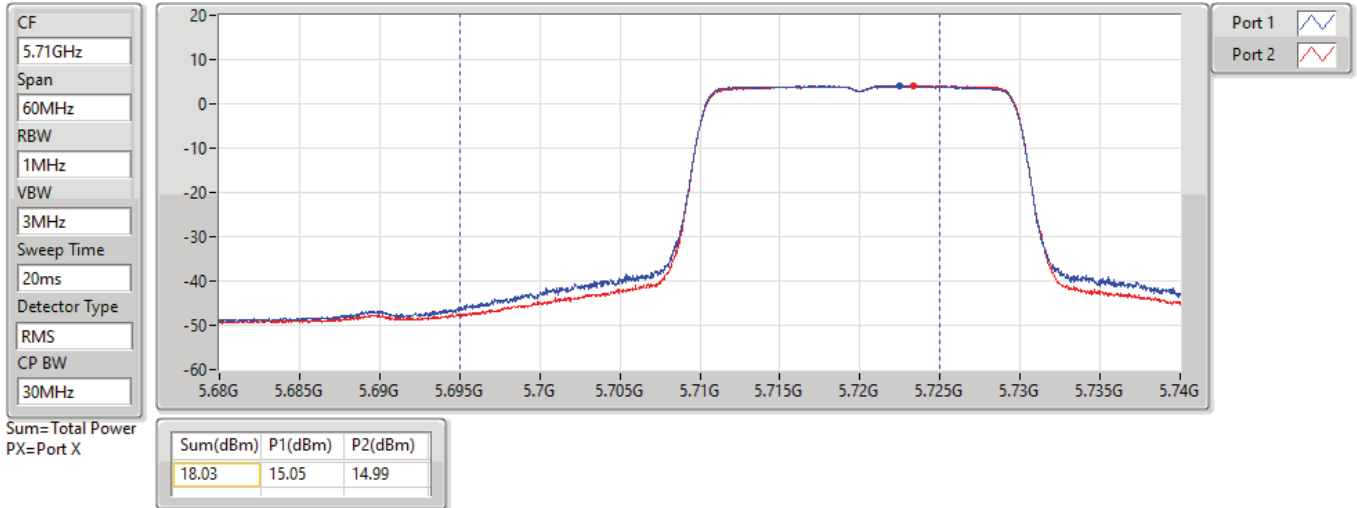
Sum(dBm)	P1(dBm)	P2(dBm)
5.29	2.32	2.23

802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

28/07/2021

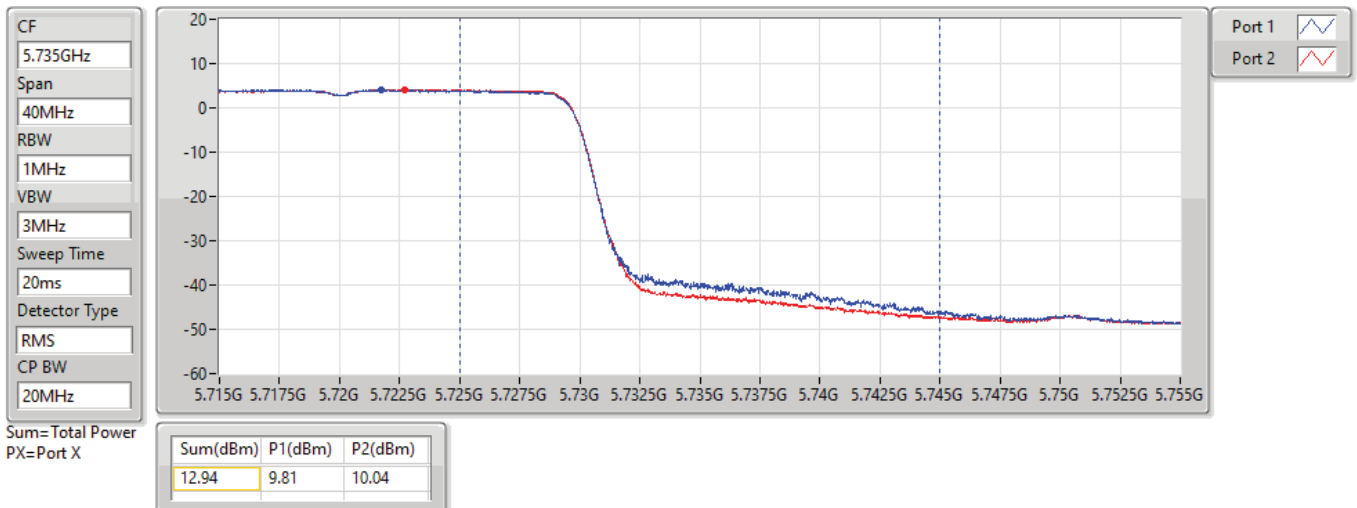


802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

28/07/2021

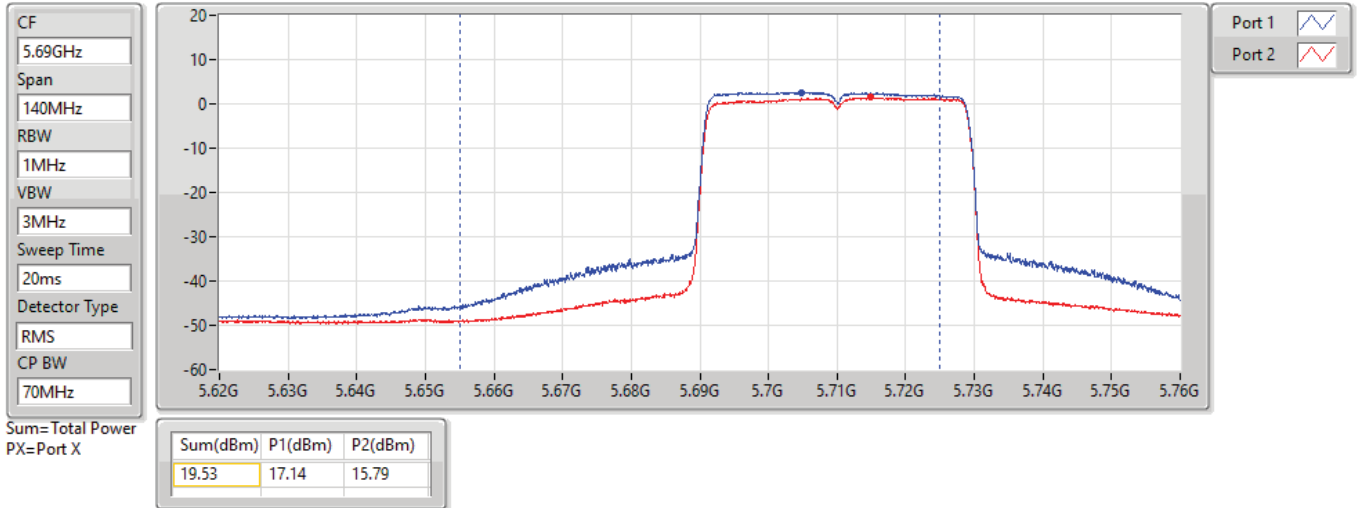


802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

28/07/2021

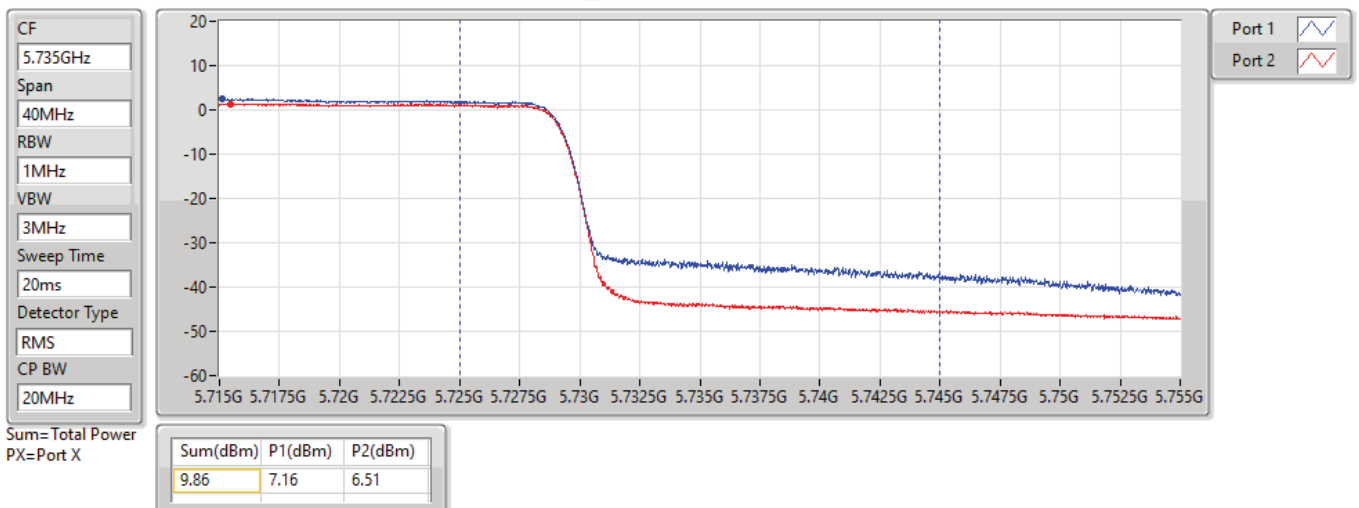


802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

28/07/2021

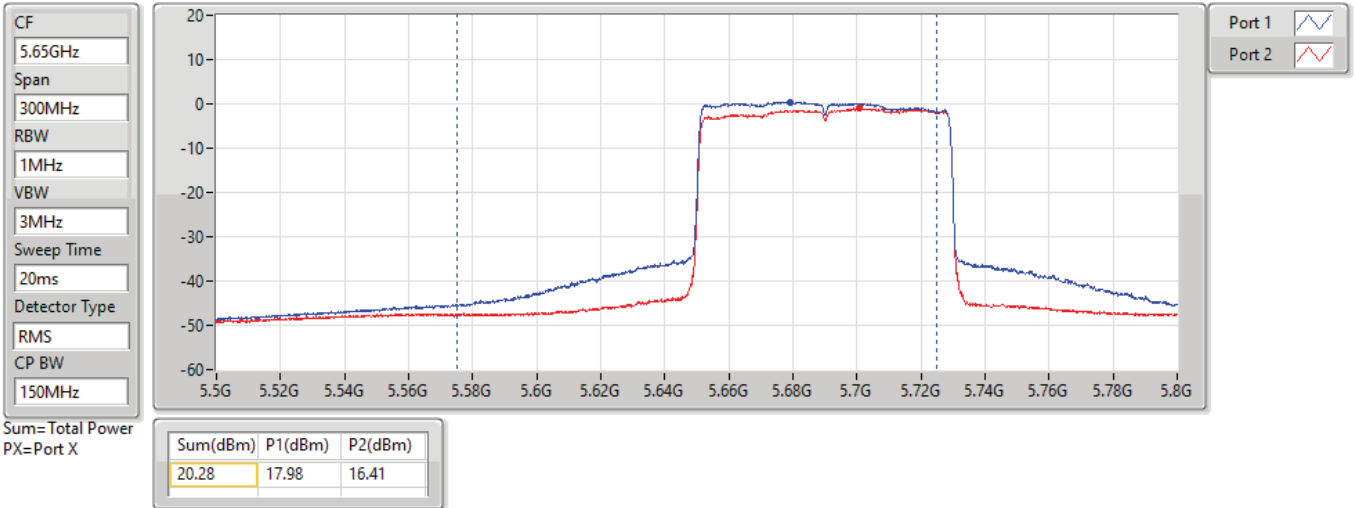


802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

28/07/2021

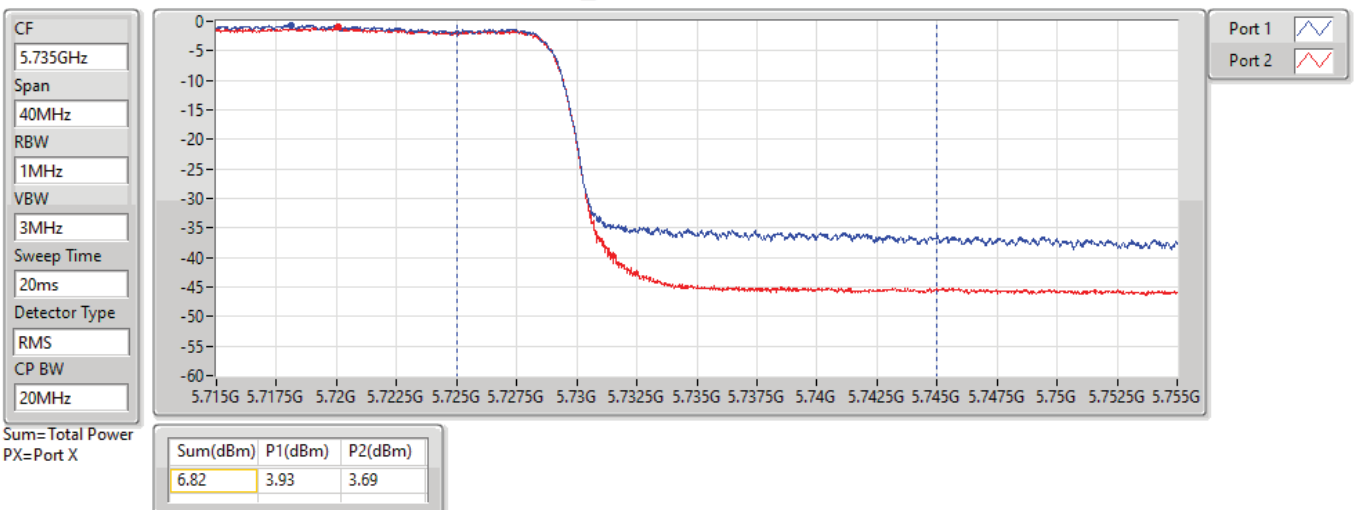


802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

28/07/2021



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20_Nss2,(MCS0)_2TX	20.13	0.10304	24.13	0.25882
802.11ac VHT40_Nss2,(MCS0)_2TX	19.04	0.08017	23.04	0.20137
802.11ac VHT80_Nss2,(MCS0)_2TX	18.94	0.07834	22.94	0.19679
802.11ax HEW20_Nss2,(MCS0)_2TX	20.28	0.10666	24.28	0.26792
802.11ax HEW40_Nss2,(MCS0)_2TX	19.31	0.08531	23.31	0.21429
802.11ax HEW80_Nss2,(MCS0)_2TX	19.20	0.08318	23.20	0.20893
5.25-5.35GHz	-	-	-	-
802.11ac VHT40_Nss2,(MCS0)_2TX	19.73	0.09397	23.73	0.23605
802.11ac VHT80_Nss2,(MCS0)_2TX	19.56	0.09036	23.56	0.22699
802.11ax HEW40_Nss2,(MCS0)_2TX	19.95	0.09886	23.95	0.24831
802.11ax HEW80_Nss2,(MCS0)_2TX	19.68	0.09290	23.68	0.23335
5.47-5.725GHz	-	-	-	-
802.11ac VHT20_Nss2,(MCS0)_2TX	18.16	0.06546	22.16	0.16444
802.11ac VHT40_Nss2,(MCS0)_2TX	19.93	0.09840	23.93	0.24717
802.11ac VHT80_Nss2,(MCS0)_2TX	19.45	0.08810	23.45	0.22131
802.11ax HEW20_Nss2,(MCS0)_2TX	18.38	0.06887	22.38	0.17298
802.11ax HEW40_Nss2,(MCS0)_2TX	20.09	0.10209	24.09	0.25645
802.11ax HEW80_Nss2,(MCS0)_2TX	19.68	0.09290	23.68	0.23335



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	16.51	17.66	20.13	30.00	24.13	36.00
5700MHz	Pass	4.00	15.33	14.97	18.16	23.98	22.16	30.00
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	15.27	16.67	19.04	30.00	23.04	36.00
5310MHz	Pass	4.00	16.11	17.25	19.73	23.98	23.73	30.00
5510MHz	Pass	4.00	16.55	16.83	19.70	23.98	23.70	30.00
5670MHz	Pass	4.00	17.58	16.13	19.93	23.98	23.93	30.00
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	15.66	16.19	18.94	30.00	22.94	36.00
5290MHz	Pass	4.00	15.93	17.09	19.56	23.98	23.56	30.00
5530MHz	Pass	4.00	16.22	16.65	19.45	23.98	23.45	30.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	16.50	17.93	20.28	30.00	24.28	36.00
5700MHz	Pass	4.00	15.61	15.12	18.38	23.98	22.38	30.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	15.63	16.88	19.31	30.00	23.31	36.00
5310MHz	Pass	4.00	16.30	17.49	19.95	23.98	23.95	30.00
5510MHz	Pass	4.00	16.72	16.88	19.81	23.98	23.81	30.00
5670MHz	Pass	4.00	17.76	16.27	20.09	23.98	24.09	30.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	15.92	16.45	19.20	30.00	23.20	36.00
5290MHz	Pass	4.00	16.06	17.20	19.68	23.98	23.68	30.00
5530MHz	Pass	4.00	16.42	16.90	19.68	23.98	23.68	30.00

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

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
11a20,BF_Nss1,(6Mbps)_2TX	19.96	0.09908	26.97	0.49774
11a40,BF_Nss1,(6Mbps)_2TX	19.79	0.09528	26.80	0.47863
11a80,BF_Nss1,(6Mbps)_2TX	17.08	0.05105	24.09	0.25645
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	19.87	0.09705	26.88	0.48753
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	19.76	0.09462	26.77	0.47534
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	16.84	0.04831	23.85	0.24266
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.19	0.10447	27.20	0.52481
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.99	0.09977	27.00	0.50119
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	17.20	0.05248	24.21	0.26363
5.25-5.35GHz	-	-	-	-
11a20,BF_Nss1,(6Mbps)_2TX	19.91	0.09795	26.92	0.49204
11a40,BF_Nss1,(6Mbps)_2TX	19.55	0.09016	26.56	0.45290
11a80,BF_Nss1,(6Mbps)_2TX	17.59	0.05741	24.60	0.28840
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	19.81	0.09572	26.82	0.48084
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	19.53	0.08974	26.54	0.45082
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	17.49	0.05610	24.50	0.28184
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.04	0.10093	27.05	0.50699
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.76	0.09462	26.77	0.47534
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	17.75	0.05957	24.76	0.29923
5.47-5.725GHz	-	-	-	-
11a20,BF_Nss1,(6Mbps)_2TX	19.16	0.08241	26.17	0.41400
11a40,BF_Nss1,(6Mbps)_2TX	19.56	0.09036	26.57	0.45394
11a80,BF_Nss1,(6Mbps)_2TX	19.81	0.09572	26.82	0.48084
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	19.46	0.08831	26.47	0.44361
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	19.38	0.08670	26.39	0.43551
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	19.72	0.09376	26.73	0.47098
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	19.73	0.09397	26.74	0.47206
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.53	0.08974	26.54	0.45082
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.28	0.10666	27.29	0.53580
5.725-5.85GHz	-	-	-	-
11a20,BF_Nss1,(6Mbps)_2TX	20.10	0.10233	27.11	0.51404
11a40,BF_Nss1,(6Mbps)_2TX	19.03	0.07998	26.04	0.40179
11a80,BF_Nss1,(6Mbps)_2TX	19.04	0.08017	26.05	0.40272
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	19.93	0.09840	26.94	0.49431
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	18.92	0.07798	25.93	0.39174
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	18.95	0.07852	25.96	0.39446
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.33	0.10789	27.34	0.54200
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.32	0.08551	26.33	0.42954
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	19.26	0.08433	26.27	0.42364

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
11a20,BF_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.01	16.40	17.44	19.96	28.99	26.97	36.00
5200MHz	Pass	7.01	16.59	17.28	19.96	28.99	26.97	36.00
5240MHz	Pass	7.01	16.35	17.45	19.95	28.99	26.96	36.00
5260MHz	Pass	7.01	16.08	17.13	19.65	22.97	26.66	30.00
5300MHz	Pass	7.01	15.95	17.37	19.73	22.97	26.74	30.00
5320MHz	Pass	7.01	16.02	17.63	19.91	22.97	26.92	30.00
5500MHz	Pass	7.01	15.06	15.77	18.44	22.97	25.45	30.00
5580MHz	Pass	7.01	15.62	16.63	19.16	22.97	26.17	30.00
5700MHz	Pass	7.01	16.15	15.76	18.97	22.97	25.98	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.01	15.14	14.97	18.07	21.90	25.08	28.91
5720MHz Straddle 5.725-5.85GHz	Pass	7.01	8.90	9.08	12.00	28.99	19.01	36.00
5745MHz	Pass	7.01	17.30	16.72	20.03	28.99	27.04	36.00
5785MHz	Pass	7.01	17.04	17.14	20.10	28.99	27.11	36.00
5825MHz	Pass	7.01	17.19	16.91	20.06	28.99	27.07	36.00
11a40,BF_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.01	13.41	14.21	16.84	28.99	23.85	36.00
5230MHz	Pass	7.01	16.19	17.30	19.79	28.99	26.80	36.00
5270MHz	Pass	7.01	16.01	17.01	19.55	22.97	26.56	30.00
5310MHz	Pass	7.01	14.10	15.16	17.67	22.97	24.68	30.00
5510MHz	Pass	7.01	14.16	14.52	17.35	22.97	24.36	30.00
5550MHz	Pass	7.01	16.28	16.45	19.38	22.97	26.39	30.00
5670MHz	Pass	7.01	17.14	15.86	19.56	22.97	26.57	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.01	16.88	15.55	19.28	22.97	26.29	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.01	6.71	6.12	9.44	28.99	16.45	36.00
5755MHz	Pass	7.01	16.04	15.99	19.03	28.99	26.04	36.00
5795MHz	Pass	7.01	15.81	16.16	19.00	28.99	26.01	36.00
11a80,BF_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.01	13.79	14.33	17.08	28.99	24.09	36.00
5290MHz	Pass	7.01	14.16	14.96	17.59	22.97	24.60	30.00
5530MHz	Pass	7.01	13.12	13.74	16.45	22.97	23.46	30.00
5610MHz	Pass	7.01	17.14	16.42	19.81	22.97	26.82	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.01	17.42	15.82	19.70	22.97	26.71	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.01	3.24	3.26	6.26	28.99	13.27	36.00
5775MHz	Pass	7.01	15.62	16.41	19.04	28.99	26.05	36.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.01	15.00	16.60	18.88	28.99	25.89	36.00
5200MHz	Pass	7.01	16.26	17.35	19.85	28.99	26.86	36.00
5240MHz	Pass	7.01	16.33	17.34	19.87	28.99	26.88	36.00
5260MHz	Pass	7.01	15.90	17.25	19.64	22.97	26.65	30.00
5300MHz	Pass	7.01	15.85	17.49	19.76	22.97	26.77	30.00
5320MHz	Pass	7.01	15.83	17.60	19.81	22.97	26.82	30.00
5500MHz	Pass	7.01	16.06	16.81	19.46	22.97	26.47	30.00
5580MHz	Pass	7.01	15.83	16.72	19.31	22.97	26.32	30.00
5700MHz	Pass	7.01	13.87	14.06	16.98	22.97	23.99	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.01	14.67	14.55	17.62	21.93	24.63	28.94
5720MHz Straddle 5.725-5.85GHz	Pass	7.01	8.81	9.24	12.04	28.99	19.05	36.00
5745MHz	Pass	7.01	17.08	16.67	19.89	28.99	26.90	36.00
5785MHz	Pass	7.01	16.97	16.87	19.93	28.99	26.94	36.00
5825MHz	Pass	7.01	16.93	16.81	19.88	28.99	26.89	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.01	13.11	14.28	16.74	28.99	23.75	36.00
5230MHz	Pass	7.01	16.10	17.31	19.76	28.99	26.77	36.00
5270MHz	Pass	7.01	15.88	17.07	19.53	22.97	26.54	30.00
5310MHz	Pass	7.01	14.08	15.27	17.73	22.97	24.74	30.00



Average Power_Beamforming_2T1S

Appendix C.3

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5510MHz	Pass	7.01	15.05	15.59	18.34	22.97	25.35	30.00
5550MHz	Pass	7.01	16.12	16.61	19.38	22.97	26.39	30.00
5670MHz	Pass	7.01	16.20	14.90	18.61	22.97	25.62	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.01	16.49	15.32	18.95	22.97	25.96	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.01	6.08	5.59	8.85	28.99	15.86	36.00
5755MHz	Pass	7.01	15.97	15.84	18.92	28.99	25.93	36.00
5795MHz	Pass	7.01	15.80	16.00	18.91	28.99	25.92	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.01	13.32	14.29	16.84	28.99	23.85	36.00
5290MHz	Pass	7.01	13.75	15.10	17.49	22.97	24.50	30.00
5530MHz	Pass	7.01	15.11	15.68	18.41	22.97	25.42	30.00
5610MHz	Pass	7.01	17.05	16.34	19.72	22.97	26.73	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.01	16.95	15.79	19.42	22.97	26.43	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.01	2.32	2.23	5.29	28.99	12.30	36.00
5775MHz	Pass	7.01	15.50	16.33	18.95	28.99	25.96	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.01	15.36	16.55	19.01	28.99	26.02	36.00
5200MHz	Pass	7.01	16.78	17.52	20.18	28.99	27.19	36.00
5240MHz	Pass	7.01	16.66	17.64	20.19	28.99	27.20	36.00
5260MHz	Pass	7.01	16.34	17.55	20.00	22.97	27.01	30.00
5300MHz	Pass	7.01	16.16	17.63	19.97	22.97	26.98	30.00
5320MHz	Pass	7.01	16.34	17.63	20.04	22.97	27.05	30.00
5500MHz	Pass	7.01	16.39	17.02	19.73	22.97	26.74	30.00
5580MHz	Pass	7.01	16.15	17.02	19.62	22.97	26.63	30.00
5700MHz	Pass	7.01	14.37	14.20	17.30	22.97	24.31	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.01	15.05	14.99	18.03	21.93	25.04	28.94
5720MHz Straddle 5.725-5.85GHz	Pass	7.01	9.81	10.04	12.94	28.99	19.95	36.00
5745MHz	Pass	7.01	17.46	16.92	20.21	28.99	27.22	36.00
5785MHz	Pass	7.01	17.30	17.33	20.33	28.99	27.34	36.00
5825MHz	Pass	7.01	17.18	17.27	20.24	28.99	27.25	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.01	13.46	14.44	16.99	28.99	24.00	36.00
5230MHz	Pass	7.01	16.52	17.39	19.99	28.99	27.00	36.00
5270MHz	Pass	7.01	16.24	17.21	19.76	22.97	26.77	30.00
5310MHz	Pass	7.01	14.40	15.35	17.91	22.97	24.92	30.00
5510MHz	Pass	7.01	15.55	15.71	18.64	22.97	25.65	30.00
5550MHz	Pass	7.01	16.36	16.68	19.53	22.97	26.54	30.00
5670MHz	Pass	7.01	16.53	15.23	18.94	22.97	25.95	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.01	17.14	15.79	19.53	22.97	26.54	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.01	7.16	6.51	9.86	28.99	16.87	36.00
5755MHz	Pass	7.01	16.34	16.28	19.32	28.99	26.33	36.00
5795MHz	Pass	7.01	16.00	16.36	19.19	28.99	26.20	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.01	13.79	14.56	17.20	28.99	24.21	36.00
5290MHz	Pass	7.01	14.23	15.19	17.75	22.97	24.76	30.00
5530MHz	Pass	7.01	15.45	15.85	18.66	22.97	25.67	30.00
5610MHz	Pass	7.01	17.45	16.69	20.10	22.97	27.11	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.01	17.98	16.41	20.28	22.97	27.29	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.01	3.93	3.69	6.82	28.99	13.83	36.00
5775MHz	Pass	7.01	15.97	16.52	19.26	28.99	26.27	36.00

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
11a20_Nss1,(6Mbps)_2TX	7.08	14.09
11a40_Nss1,(6Mbps)_2TX	4.19	11.20
11a80_Nss1,(6Mbps)_2TX	-1.45	5.56
802.11ac VHT20_Nss1,(MCS0)_2TX	6.46	13.47
802.11ac VHT40_Nss1,(MCS0)_2TX	3.46	10.47
802.11ac VHT80_Nss1,(MCS0)_2TX	-2.14	4.87
802.11ax HEW20_Nss1,(MCS0)_2TX	6.72	13.73
802.11ax HEW40_Nss1,(MCS0)_2TX	3.67	10.68
802.11ax HEW80_Nss1,(MCS0)_2TX	-1.32	5.69
5.25-5.35GHz	-	-
11a20_Nss1,(6Mbps)_2TX	6.92	13.93
11a40_Nss1,(6Mbps)_2TX	3.89	10.90
11a80_Nss1,(6Mbps)_2TX	-0.98	6.03
802.11ac VHT20_Nss1,(MCS0)_2TX	6.32	13.33
802.11ac VHT40_Nss1,(MCS0)_2TX	3.19	10.20
802.11ac VHT80_Nss1,(MCS0)_2TX	-1.50	5.51
802.11ax HEW20_Nss1,(MCS0)_2TX	6.44	13.45
802.11ax HEW40_Nss1,(MCS0)_2TX	3.41	10.42
802.11ax HEW80_Nss1,(MCS0)_2TX	-0.84	6.17
5.47-5.725GHz	-	-
11a20_Nss1,(6Mbps)_2TX	6.54	13.55
11a40_Nss1,(6Mbps)_2TX	3.88	10.89
11a80_Nss1,(6Mbps)_2TX	1.41	8.42
802.11ac VHT20_Nss1,(MCS0)_2TX	5.91	12.92
802.11ac VHT40_Nss1,(MCS0)_2TX	3.03	10.04
802.11ac VHT80_Nss1,(MCS0)_2TX	0.70	7.71
802.11ax HEW20_Nss1,(MCS0)_2TX	6.23	13.24
802.11ax HEW40_Nss1,(MCS0)_2TX	3.44	10.45
802.11ax HEW80_Nss1,(MCS0)_2TX	1.55	8.56
5.725-5.85GHz	-	-
11a20_Nss1,(6Mbps)_2TX	5.65	12.66
11a40_Nss1,(6Mbps)_2TX	1.84	8.85
11a80_Nss1,(6Mbps)_2TX	-0.90	6.11
802.11ac VHT20_Nss1,(MCS0)_2TX	4.89	11.90
802.11ac VHT40_Nss1,(MCS0)_2TX	1.22	8.23
802.11ac VHT80_Nss1,(MCS0)_2TX	-1.57	5.44
802.11ax HEW20_Nss1,(MCS0)_2TX	5.19	12.20
802.11ax HEW40_Nss1,(MCS0)_2TX	1.52	8.53
802.11ax HEW80_Nss1,(MCS0)_2TX	-0.79	6.22

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
11a20_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.01	3.56	4.61	7.08	15.99	14.09	23.00
5200MHz	Pass	7.01	3.75	4.43	7.06	15.99	14.07	23.00
5240MHz	Pass	7.01	3.50	4.55	7.02	15.99	14.03	23.00
5260MHz	Pass	7.01	3.20	4.28	6.75	9.99	13.76	17.00
5300MHz	Pass	7.01	3.04	4.49	6.81	9.99	13.82	17.00
5320MHz	Pass	7.01	3.15	4.66	6.92	9.99	13.93	17.00
5500MHz	Pass	7.01	2.09	2.79	5.45	9.99	12.46	17.00
5580MHz	Pass	7.01	3.21	3.88	6.54	9.99	13.55	17.00
5700MHz	Pass	7.01	3.28	3.01	6.05	9.99	13.06	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.01	3.03	2.95	5.94	9.99	12.95	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.01	1.18	1.42	4.26	28.99	11.27	36.00
5745MHz	Pass	7.01	2.82	2.31	5.55	28.99	12.56	36.00
5785MHz	Pass	7.01	2.69	2.69	5.65	28.99	12.66	36.00
5825MHz	Pass	7.01	2.56	2.61	5.57	28.99	12.58	36.00
11a40_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.01	-2.24	-1.31	1.19	15.99	8.20	23.00
5230MHz	Pass	7.01	0.71	1.69	4.19	15.99	11.20	23.00
5270MHz	Pass	7.01	0.45	1.38	3.89	9.99	10.90	17.00
5310MHz	Pass	7.01	-1.59	-0.59	1.90	9.99	8.91	17.00
5510MHz	Pass	7.01	-1.57	-1.32	1.51	9.99	8.52	17.00
5550MHz	Pass	7.01	0.58	0.74	3.65	9.99	10.66	17.00
5670MHz	Pass	7.01	1.61	0.26	3.88	9.99	10.89	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.01	1.44	0.26	3.73	9.99	10.74	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.01	-0.91	-1.39	1.84	28.99	8.85	36.00
5755MHz	Pass	7.01	-1.19	-1.19	1.78	28.99	8.79	36.00
5795MHz	Pass	7.01	-1.33	-1.12	1.76	28.99	8.77	36.00
11a80_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.01	-4.88	-4.06	-1.45	15.99	5.56	23.00
5290MHz	Pass	7.01	-4.37	-3.48	-0.98	9.99	6.03	17.00
5530MHz	Pass	7.01	-5.35	-4.80	-2.06	9.99	4.95	17.00
5610MHz	Pass	7.01	-1.13	-1.94	1.41	9.99	8.42	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.01	-0.88	-2.51	1.18	9.99	8.19	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.01	-4.42	-4.41	-1.41	28.99	5.60	36.00
5775MHz	Pass	7.01	-4.33	-3.32	-0.90	28.99	6.11	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.01	1.46	3.06	5.32	15.99	12.33	23.00
5200MHz	Pass	7.01	2.79	3.89	6.36	15.99	13.37	23.00
5240MHz	Pass	7.01	2.81	4.06	6.46	15.99	13.47	23.00
5260MHz	Pass	7.01	2.47	3.78	6.12	9.99	13.13	17.00
5300MHz	Pass	7.01	2.31	4.03	6.22	9.99	13.23	17.00
5320MHz	Pass	7.01	2.40	4.17	6.32	9.99	13.33	17.00
5500MHz	Pass	7.01	2.40	3.25	5.81	9.99	12.82	17.00
5580MHz	Pass	7.01	2.46	3.38	5.91	9.99	12.92	17.00
5700MHz	Pass	7.01	0.51	0.67	3.57	9.99	10.58	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.01	2.34	2.39	5.29	9.99	12.30	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.01	0.45	0.86	3.60	28.99	10.61	36.00
5745MHz	Pass	7.01	2.08	1.71	4.84	28.99	11.85	36.00
5785MHz	Pass	7.01	1.92	2.06	4.89	28.99	11.90	36.00
5825MHz	Pass	7.01	1.81	1.76	4.68	28.99	11.69	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.01	-3.15	-2.05	0.43	15.99	7.44	23.00
5230MHz	Pass	7.01	-0.14	1.02	3.46	15.99	10.47	23.00
5270MHz	Pass	7.01	-0.41	0.78	3.19	9.99	10.20	17.00
5310MHz	Pass	7.01	-2.20	-1.00	1.34	9.99	8.35	17.00



Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5510MHz	Pass	7.01	-1.29	-0.76	1.91	9.99	8.92	17.00
5550MHz	Pass	7.01	-0.20	0.29	3.03	9.99	10.04	17.00
5670MHz	Pass	7.01	0.03	-1.29	2.34	9.99	9.35	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.01	0.61	-0.46	2.95	9.99	9.96	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.01	-1.47	-2.01	1.15	28.99	8.16	36.00
5755MHz	Pass	7.01	-1.74	-1.76	1.22	28.99	8.23	36.00
5795MHz	Pass	7.01	-1.99	-1.79	1.06	28.99	8.07	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.01	-5.76	-4.50	-2.14	15.99	4.87	23.00
5290MHz	Pass	7.01	-5.24	-3.76	-1.50	9.99	5.51	17.00
5530MHz	Pass	7.01	-4.01	-3.36	-0.67	9.99	6.34	17.00
5610MHz	Pass	7.01	-1.87	-2.58	0.70	9.99	7.71	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.01	-2.03	-2.88	0.33	9.99	7.34	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.01	-5.21	-5.28	-2.35	28.99	4.66	36.00
5775MHz	Pass	7.01	-4.90	-4.02	-1.57	28.99	5.44	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.01	1.86	3.22	5.55	15.99	12.56	23.00
5200MHz	Pass	7.01	3.29	4.13	6.72	15.99	13.73	23.00
5240MHz	Pass	7.01	3.11	4.19	6.64	15.99	13.65	23.00
5260MHz	Pass	7.01	2.91	3.96	6.44	9.99	13.45	17.00
5300MHz	Pass	7.01	2.66	4.11	6.43	9.99	13.44	17.00
5320MHz	Pass	7.01	2.73	4.13	6.44	9.99	13.45	17.00
5500MHz	Pass	7.01	2.82	3.46	6.11	9.99	13.12	17.00
5580MHz	Pass	7.01	2.88	3.62	6.23	9.99	13.24	17.00
5700MHz	Pass	7.01	0.78	0.73	3.69	9.99	10.70	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.01	2.49	2.59	5.51	9.99	12.52	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	7.01	0.85	1.16	3.94	28.99	10.95	36.00
5745MHz	Pass	7.01	2.35	1.88	5.06	28.99	12.07	36.00
5785MHz	Pass	7.01	2.22	2.31	5.19	28.99	12.20	36.00
5825MHz	Pass	7.01	2.11	2.13	5.05	28.99	12.06	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.01	-2.80	-1.76	0.71	15.99	7.72	23.00
5230MHz	Pass	7.01	0.24	1.10	3.67	15.99	10.68	23.00
5270MHz	Pass	7.01	-0.07	0.90	3.41	9.99	10.42	17.00
5310MHz	Pass	7.01	-1.97	-0.99	1.53	9.99	8.54	17.00
5510MHz	Pass	7.01	-0.79	-0.64	2.25	9.99	9.26	17.00
5550MHz	Pass	7.01	0.12	0.42	3.24	9.99	10.25	17.00
5670MHz	Pass	7.01	0.34	-0.92	2.61	9.99	9.62	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.01	1.14	-0.09	3.44	9.99	10.45	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.01	-1.16	-1.81	1.52	28.99	8.53	36.00
5755MHz	Pass	7.01	-1.36	-1.53	1.50	28.99	8.51	36.00
5795MHz	Pass	7.01	-1.69	-1.37	1.46	28.99	8.47	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.01	-4.72	-3.82	-1.32	15.99	5.69	23.00
5290MHz	Pass	7.01	-4.30	-3.28	-0.84	9.99	6.17	17.00
5530MHz	Pass	7.01	-2.97	-2.74	0.06	9.99	7.07	17.00
5610MHz	Pass	7.01	-0.97	-1.83	1.55	9.99	8.56	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.01	-0.95	-2.47	1.11	9.99	8.12	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.01	-4.33	-4.56	-1.43	28.99	5.58	36.00
5775MHz	Pass	7.01	-3.97	-3.52	-0.79	28.99	6.22	36.00

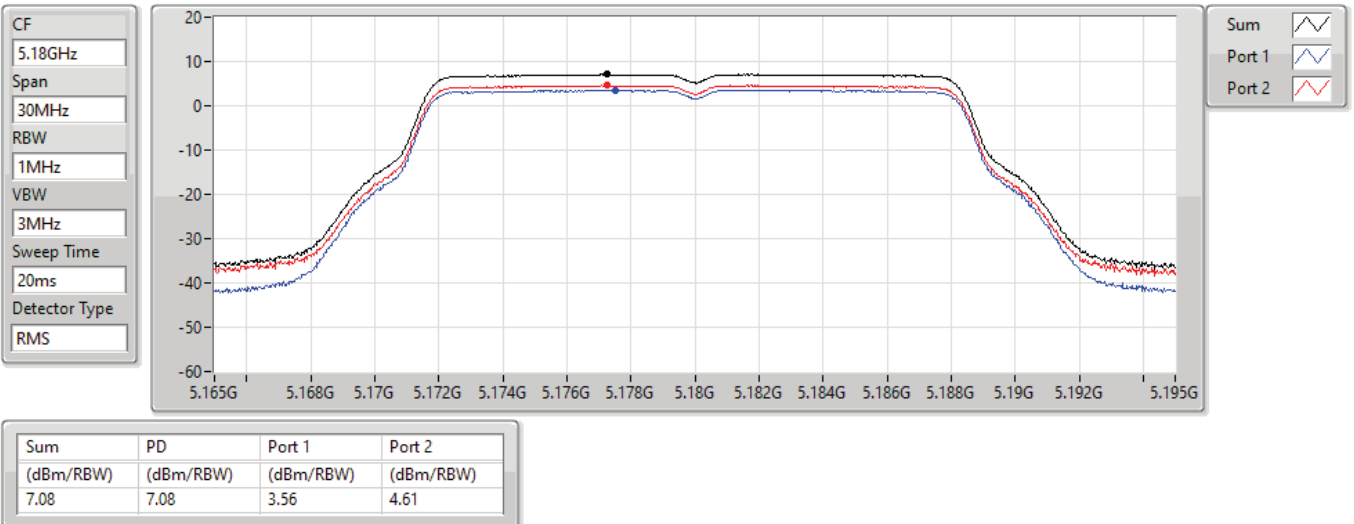
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

11a20_Nss1,(6Mbps)_2TX

PSD

5180MHz

28/07/2021

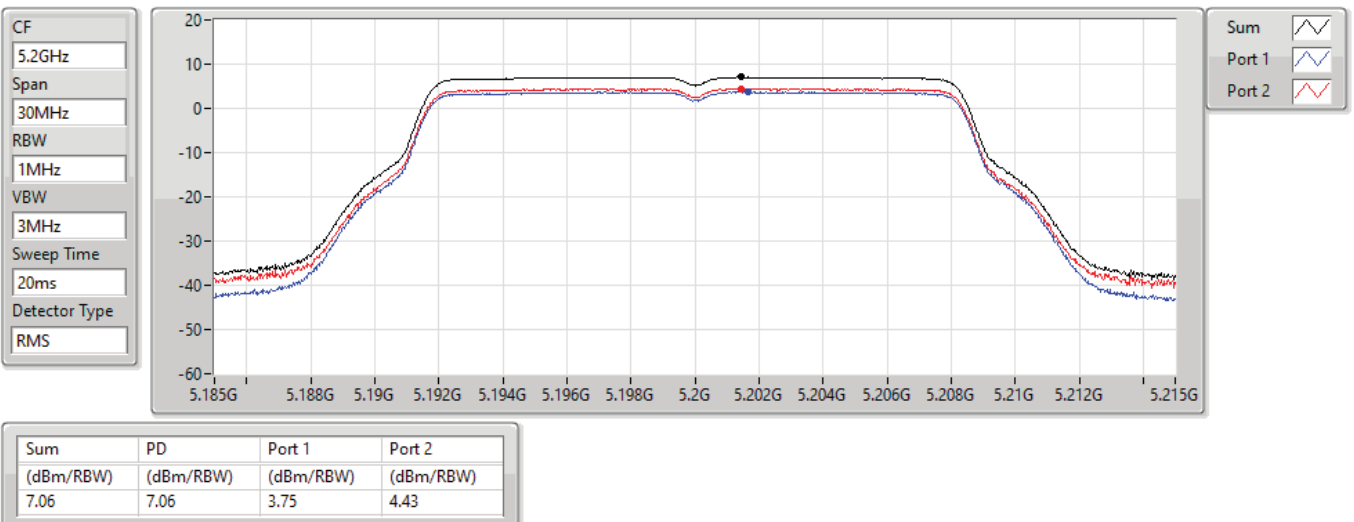


11a20_Nss1,(6Mbps)_2TX

PSD

5200MHz

28/07/2021

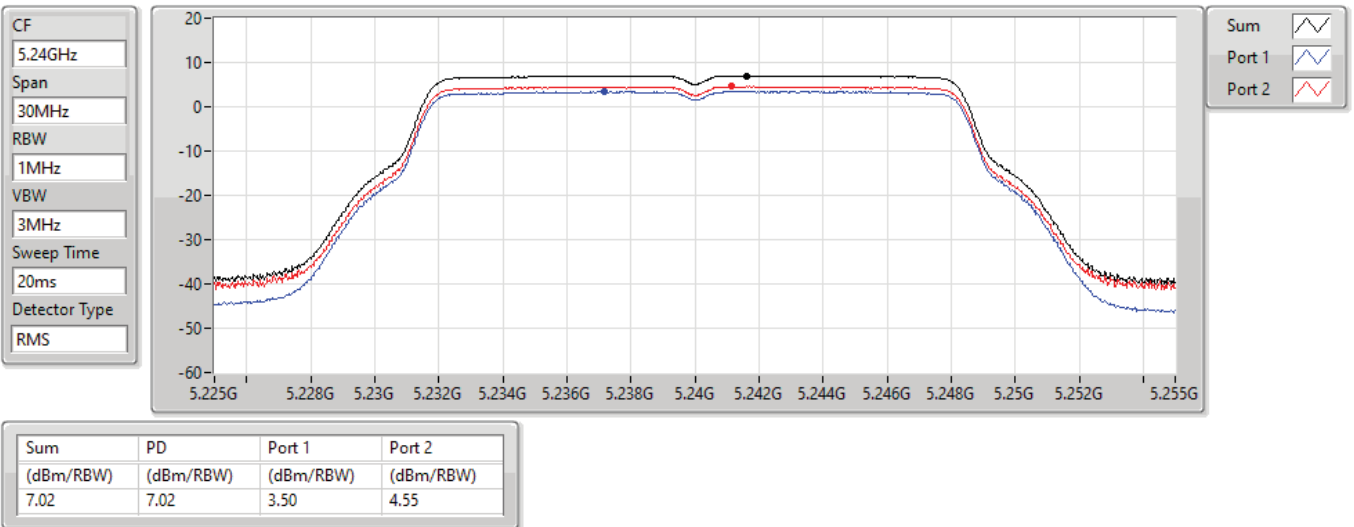


11a20_Nss1,(6Mbps)_2TX

PSD

5240MHz

28/07/2021

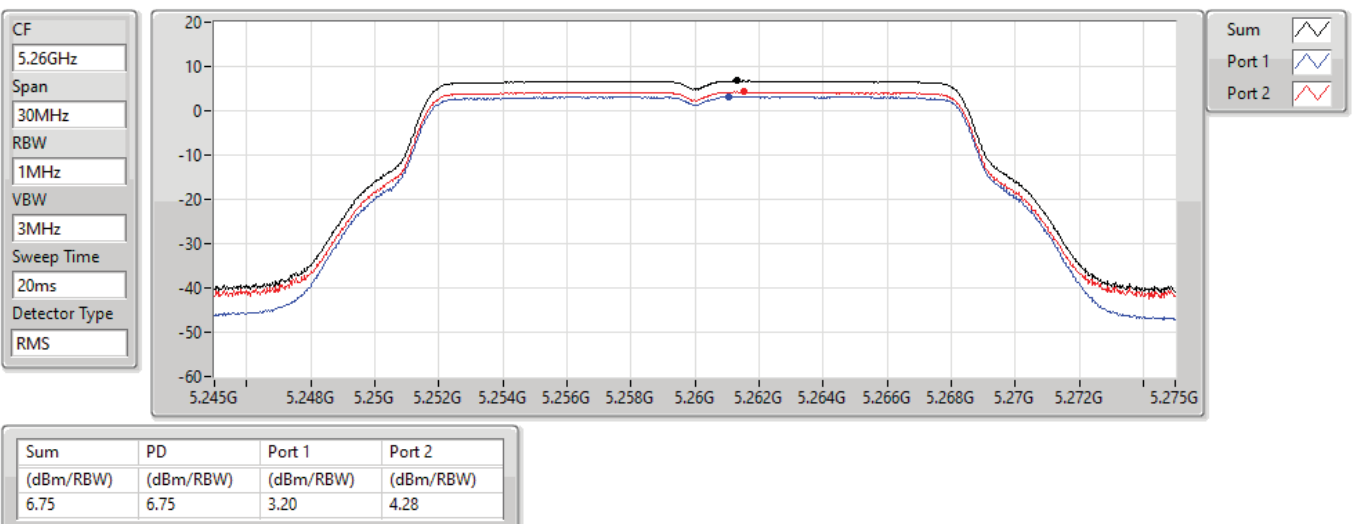


11a20_Nss1,(6Mbps)_2TX

PSD

5260MHz

28/07/2021

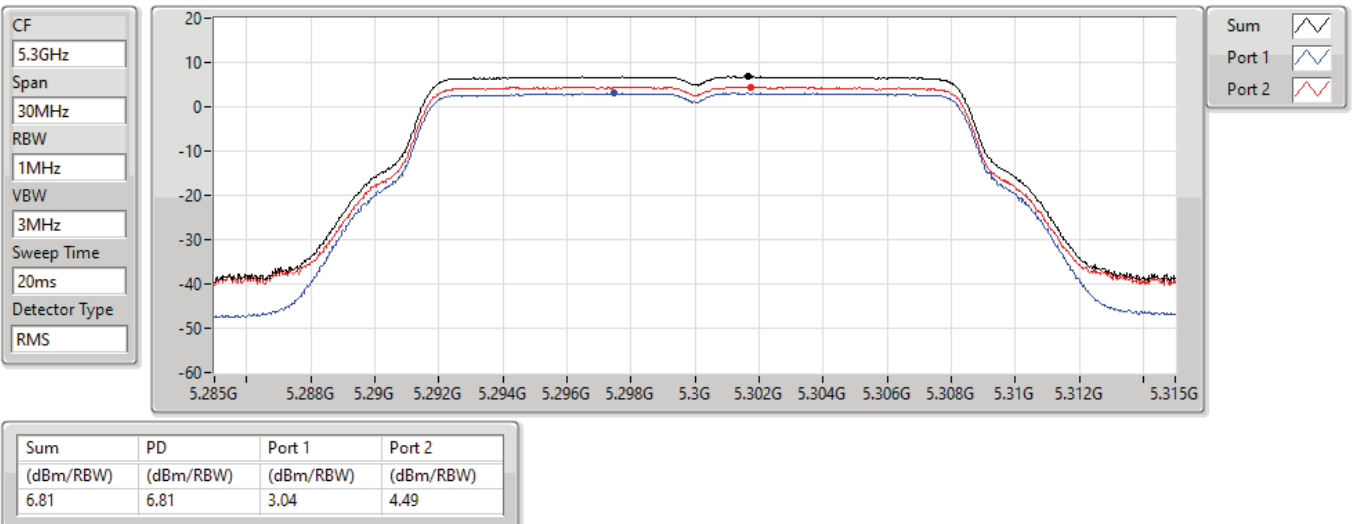


11a20_Nss1,(6Mbps)_2TX

PSD

5300MHz

28/07/2021

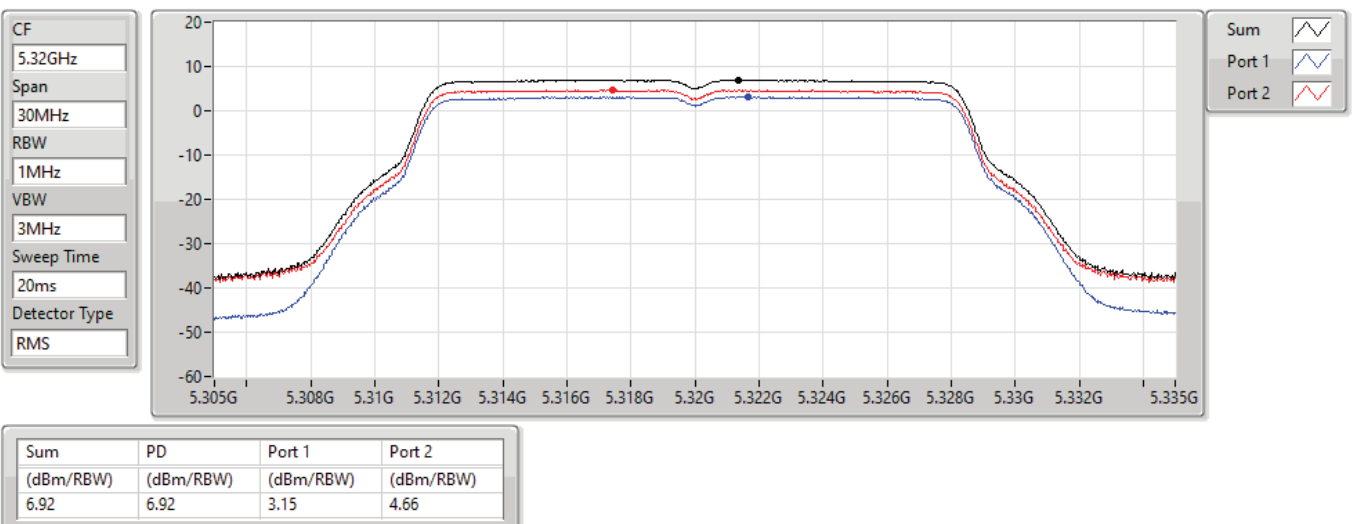


11a20_Nss1,(6Mbps)_2TX

PSD

5320MHz

28/07/2021

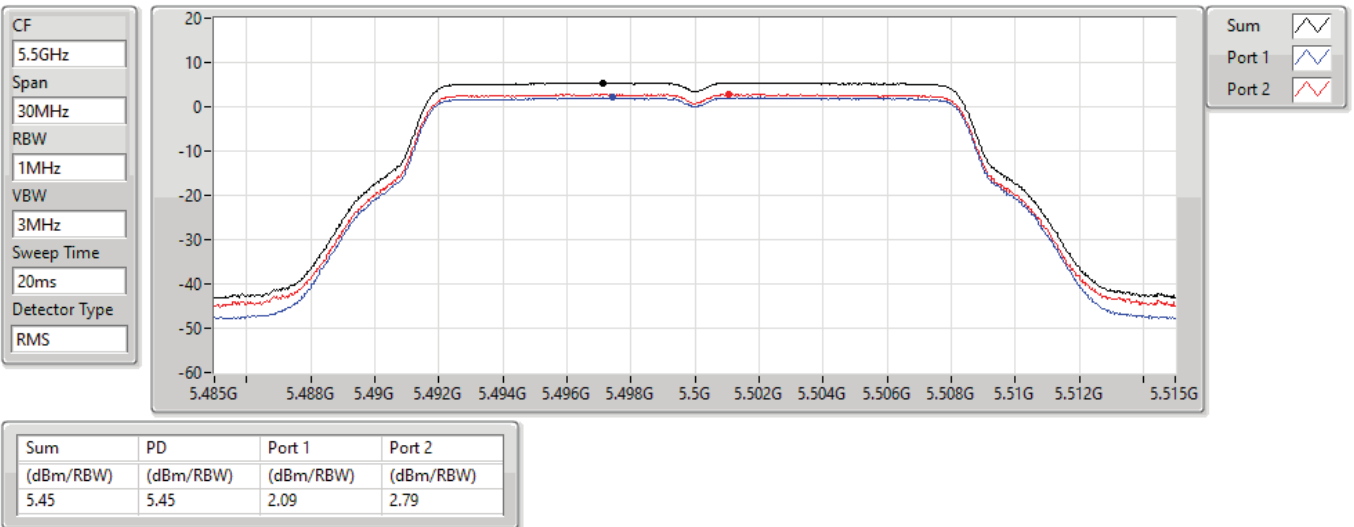


11a20_Nss1,(6Mbps)_2TX

PSD

5500MHz

28/07/2021

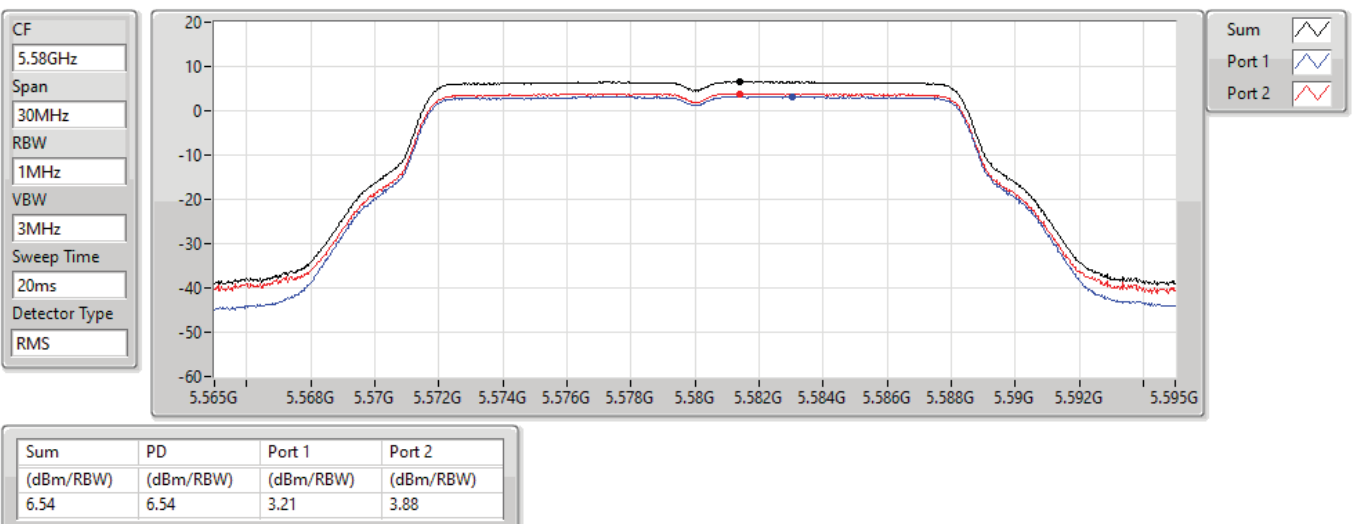


11a20_Nss1,(6Mbps)_2TX

PSD

5580MHz

28/07/2021

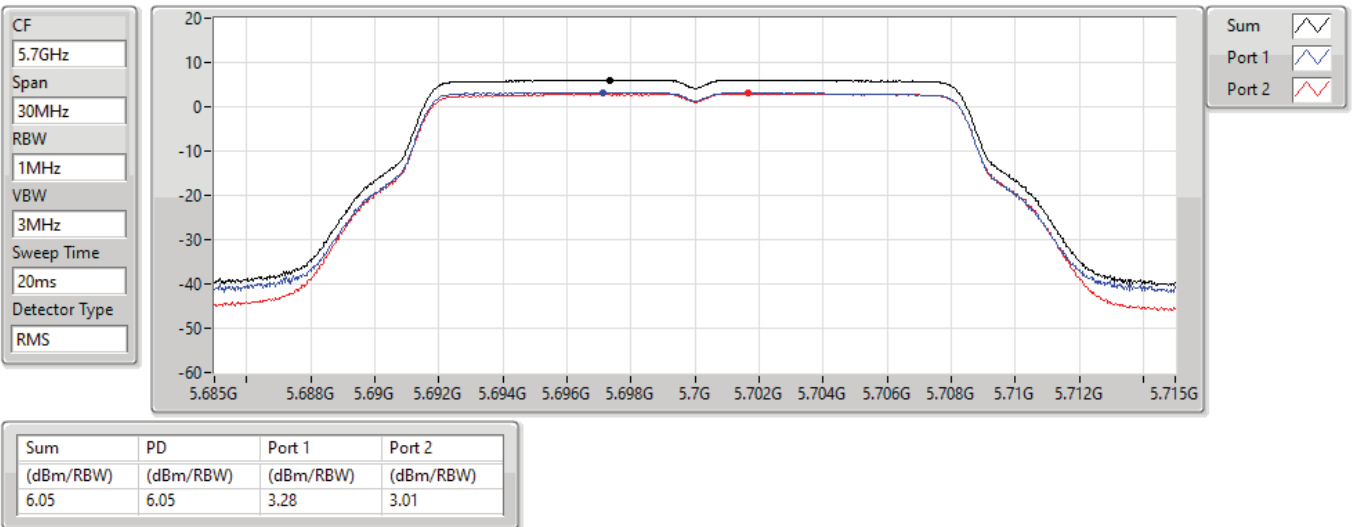


11a20_Nss1,(6Mbps)_2TX

PSD

5700MHz

28/07/2021

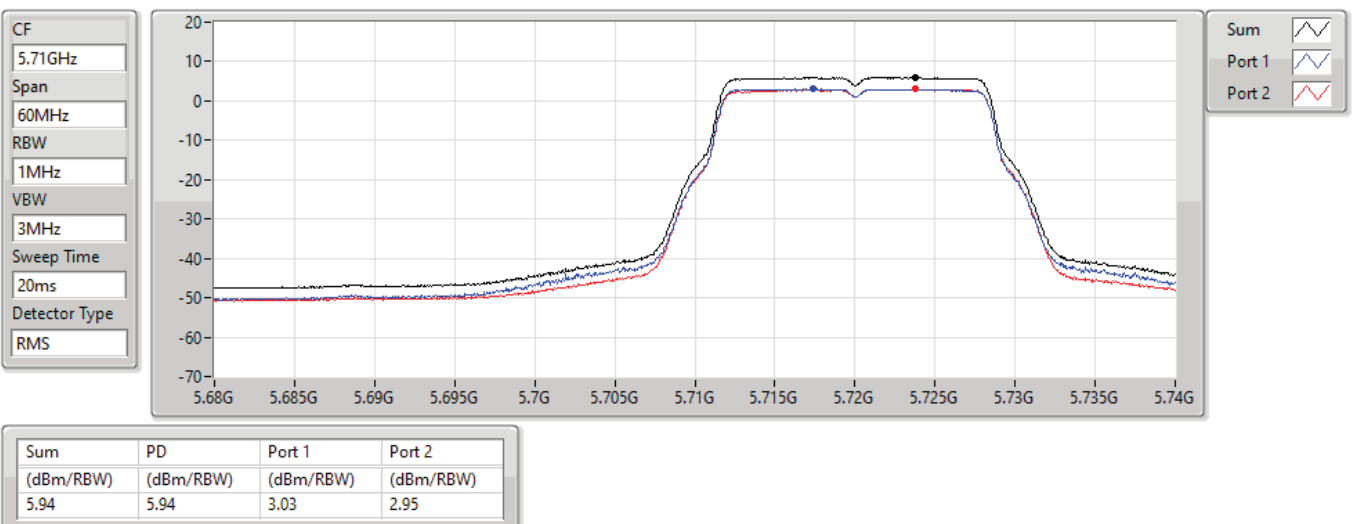


11a20_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

28/07/2021

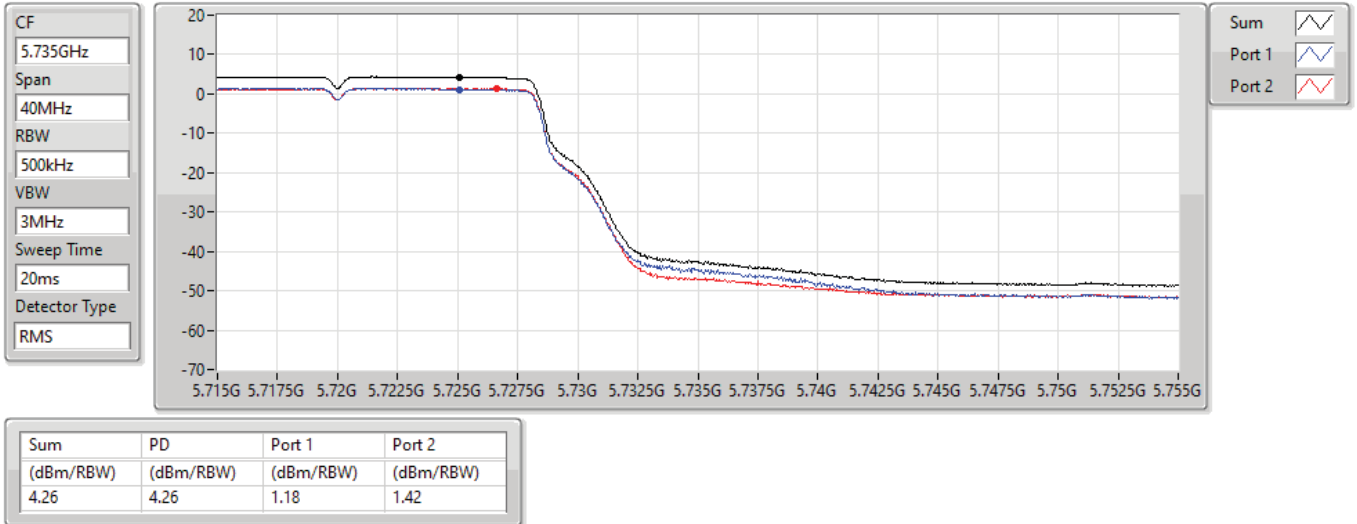


11a20_Nss1,(6Mbps)_2TX

5720MHz Straddle 5.725-5.85GHz

PSD

28/07/2021

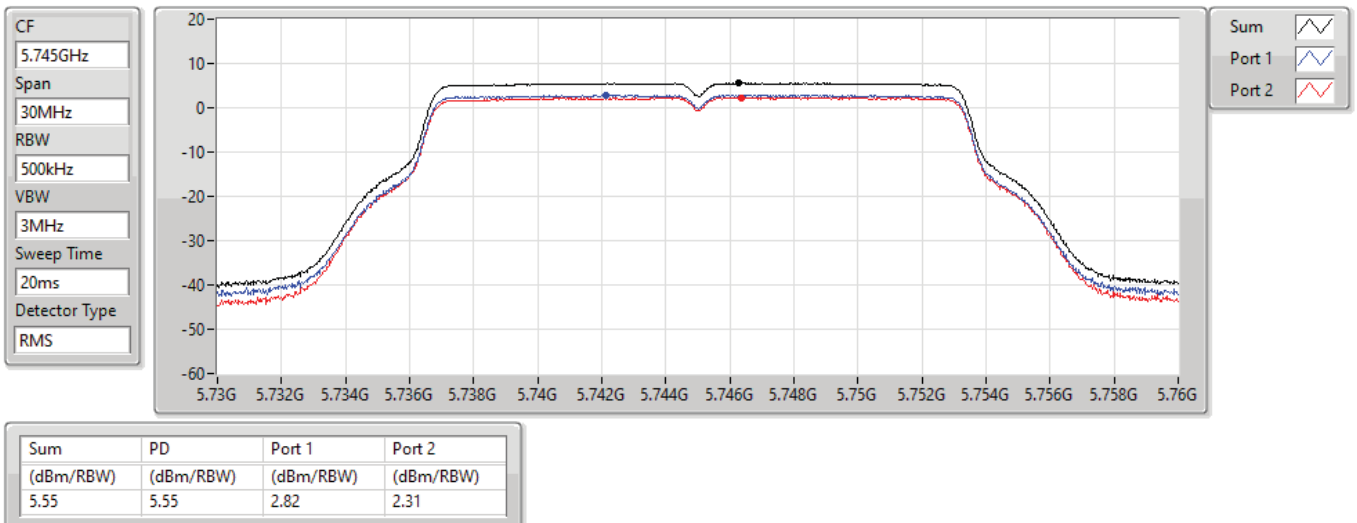


11a20_Nss1,(6Mbps)_2TX

5745MHz

PSD

28/07/2021

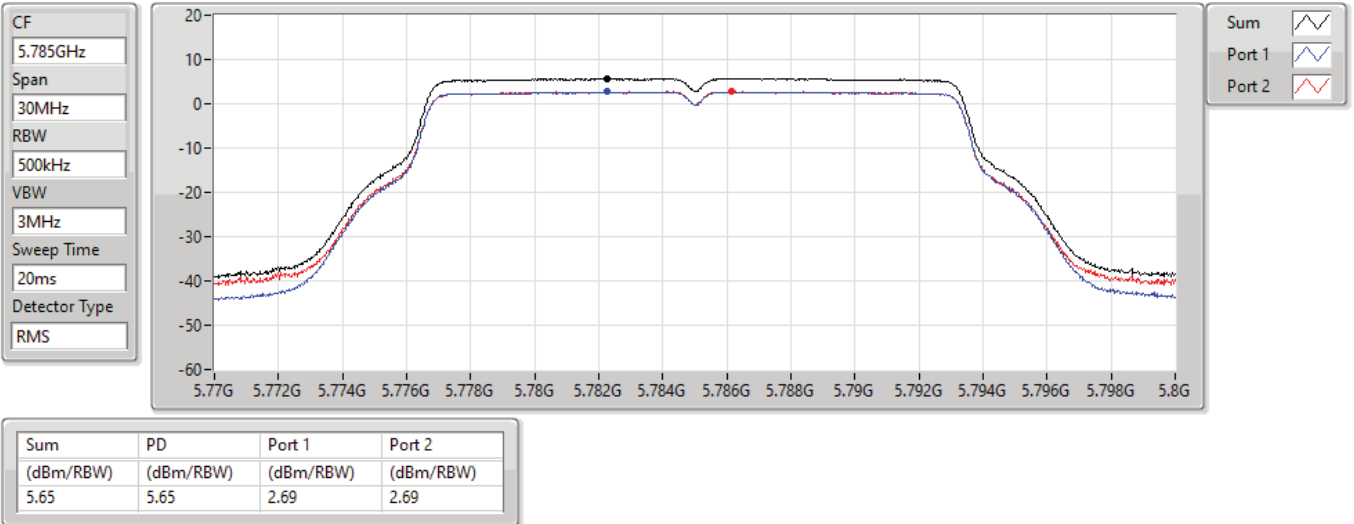


11a20_Nss1,(6Mbps)_2TX

5785MHz

PSD

28/07/2021

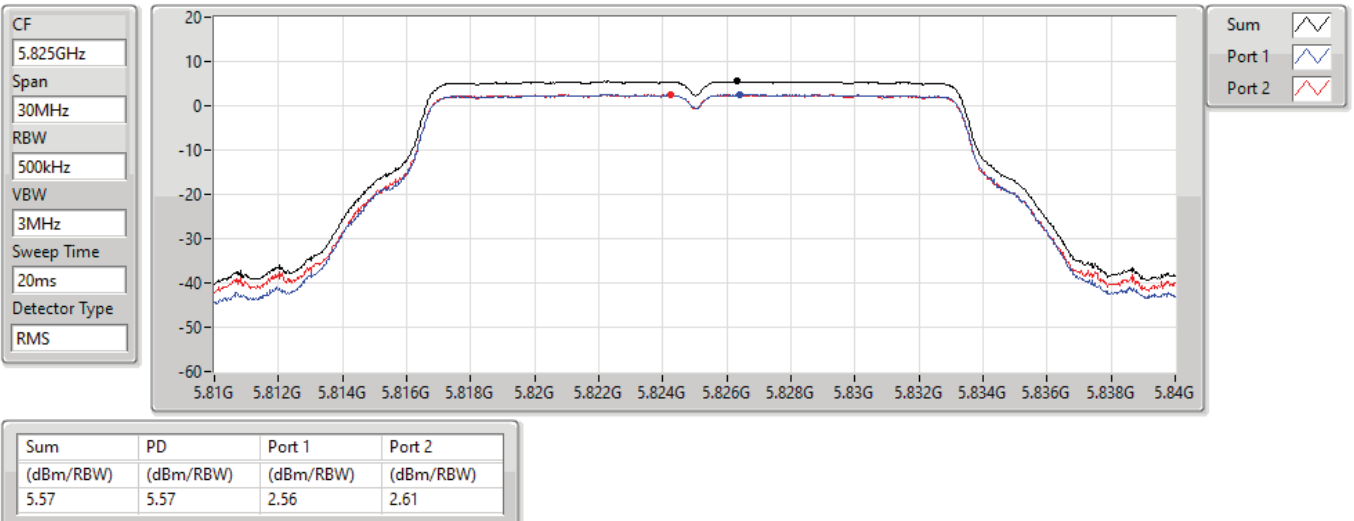


11a20_Nss1,(6Mbps)_2TX

5825MHz

PSD

28/07/2021

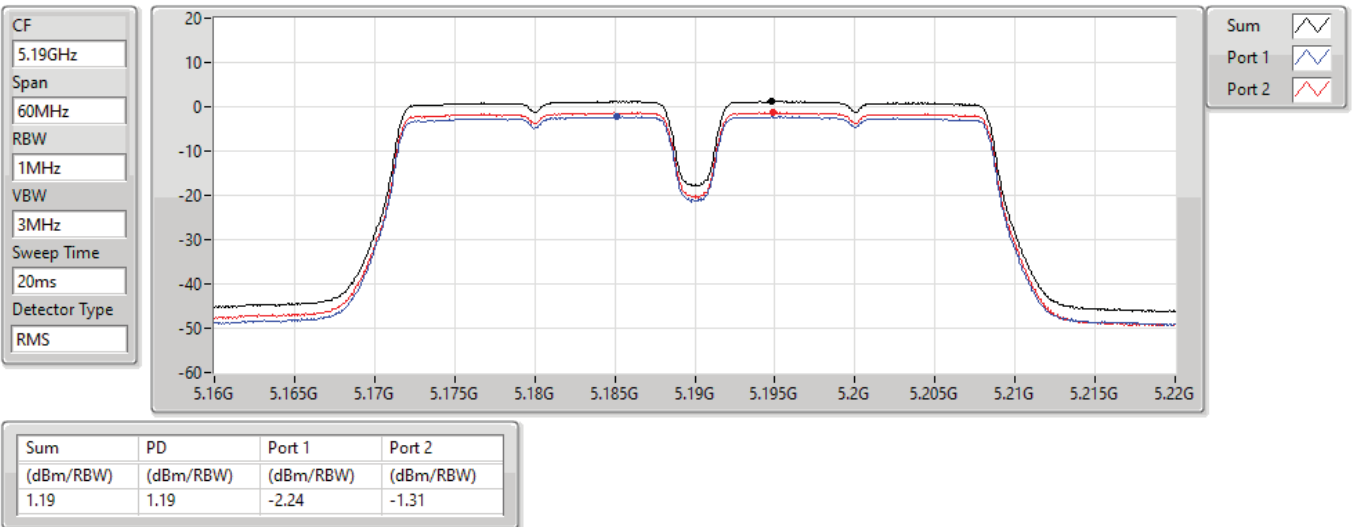


11a40_Nss1,(6Mbps)_2TX

PSD

5190MHz

28/07/2021

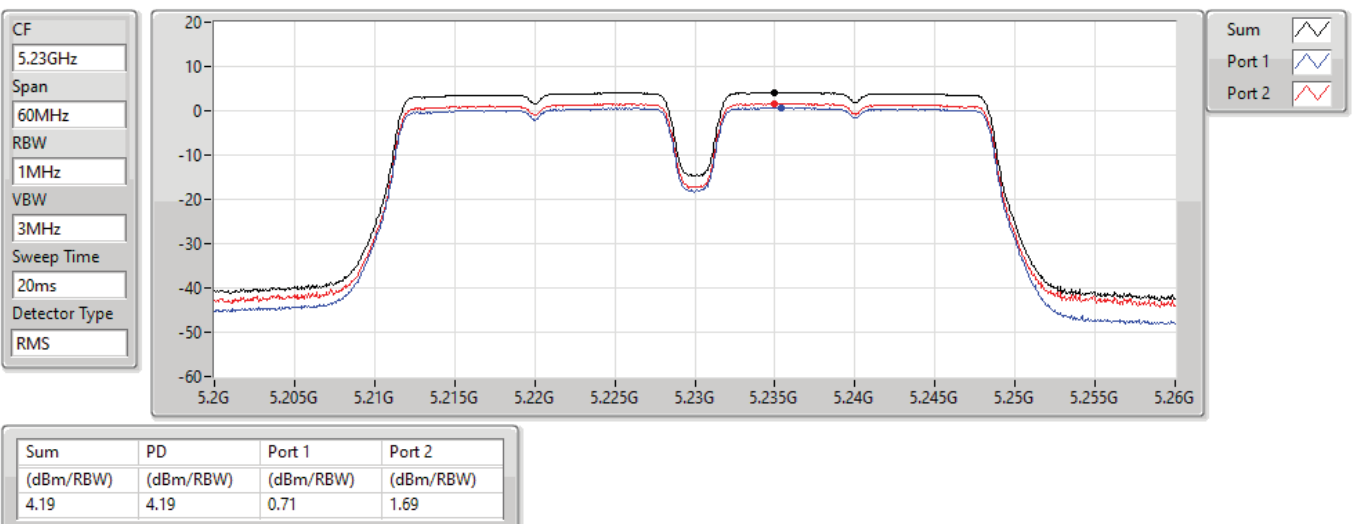


11a40_Nss1,(6Mbps)_2TX

PSD

5230MHz

28/07/2021

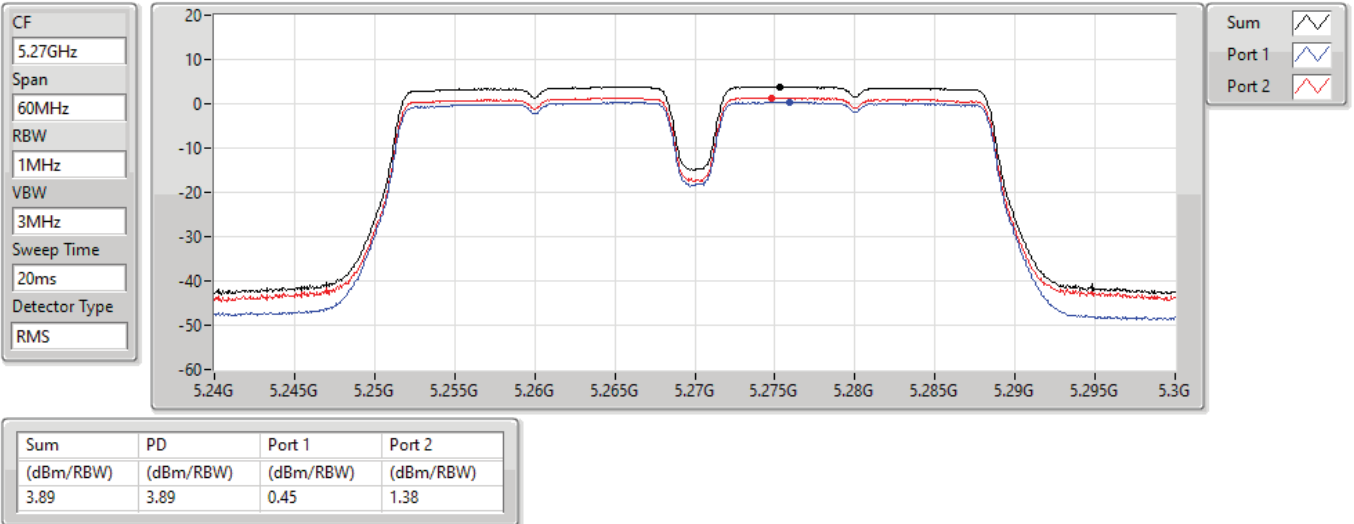


11a40_Nss1,(6Mbps)_2TX

5270MHz

PSD

28/07/2021

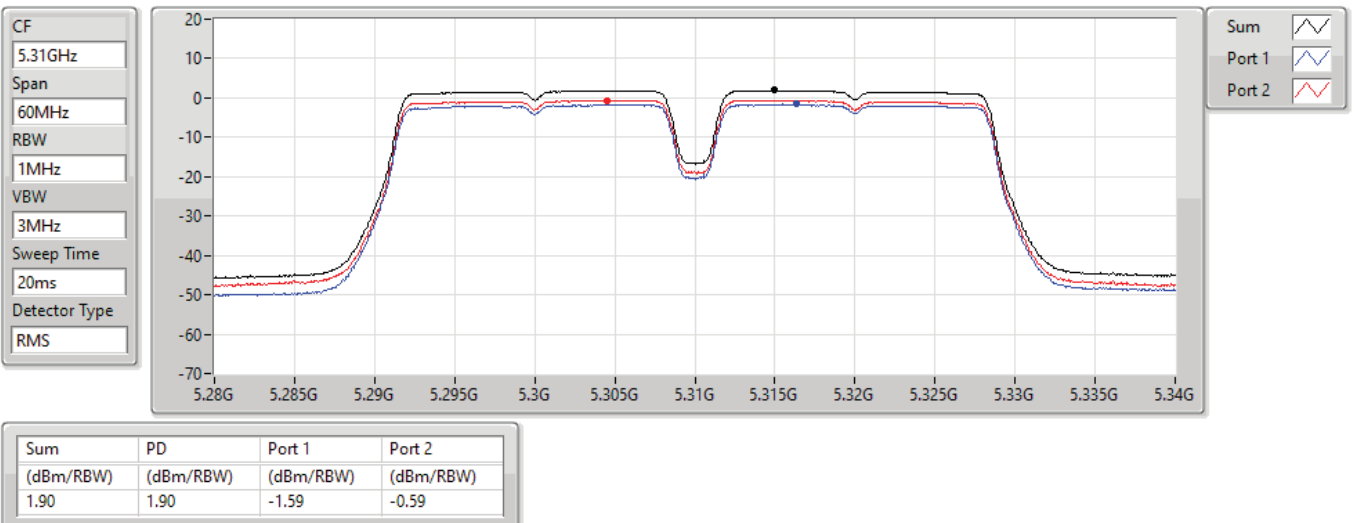


11a40_Nss1,(6Mbps)_2TX

5310MHz

PSD

28/07/2021

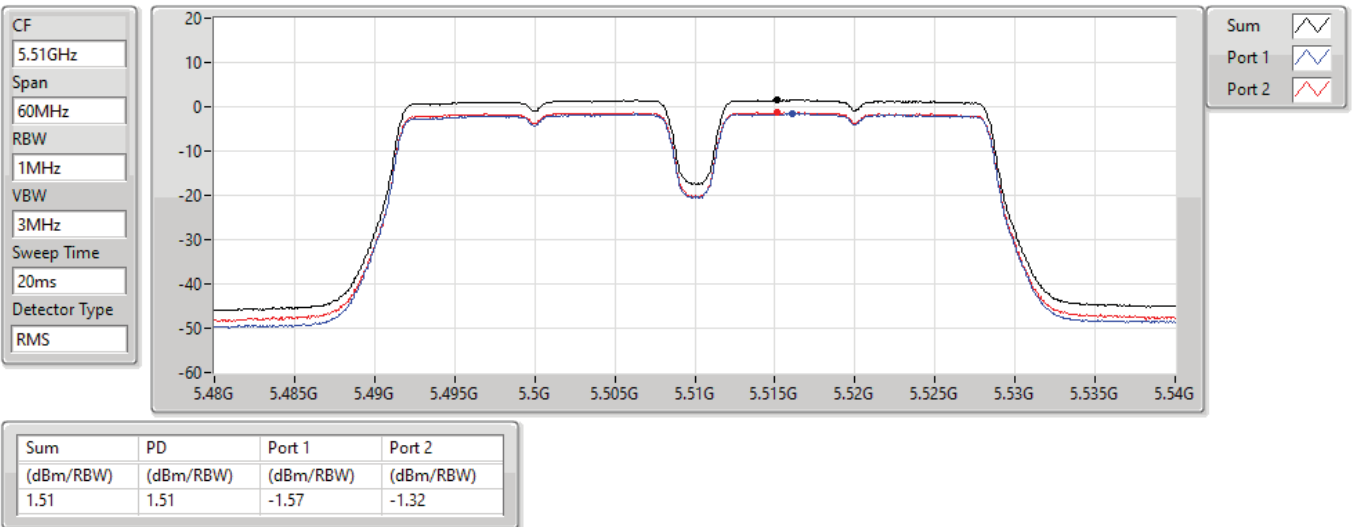


11a40_Nss1,(6Mbps)_2TX

PSD

5510MHz

28/07/2021

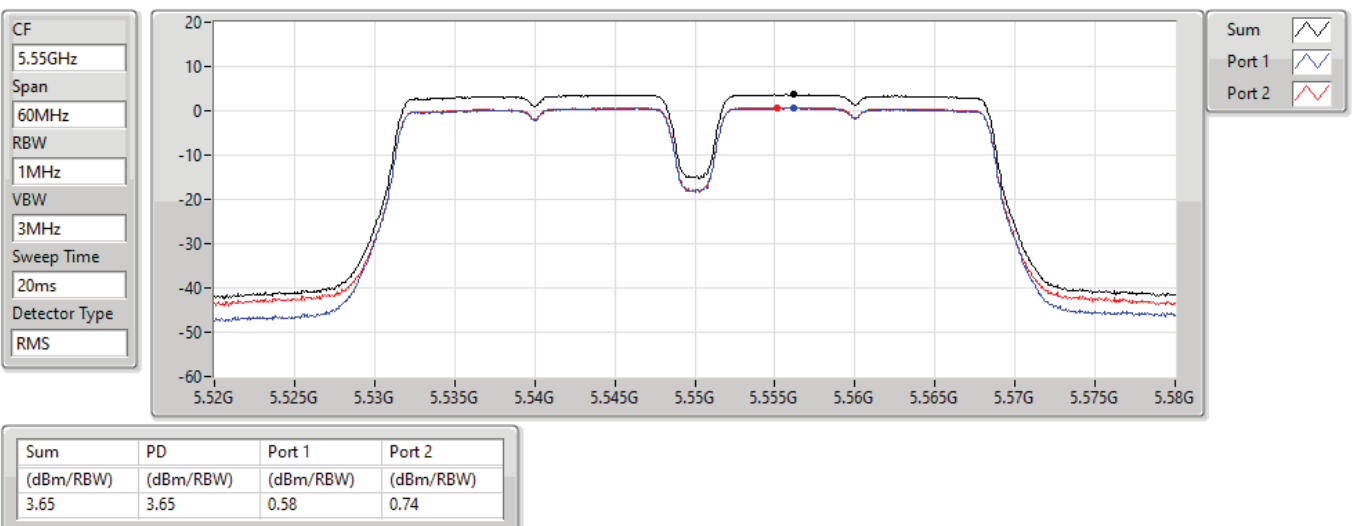


11a40_Nss1,(6Mbps)_2TX

PSD

5550MHz

28/07/2021

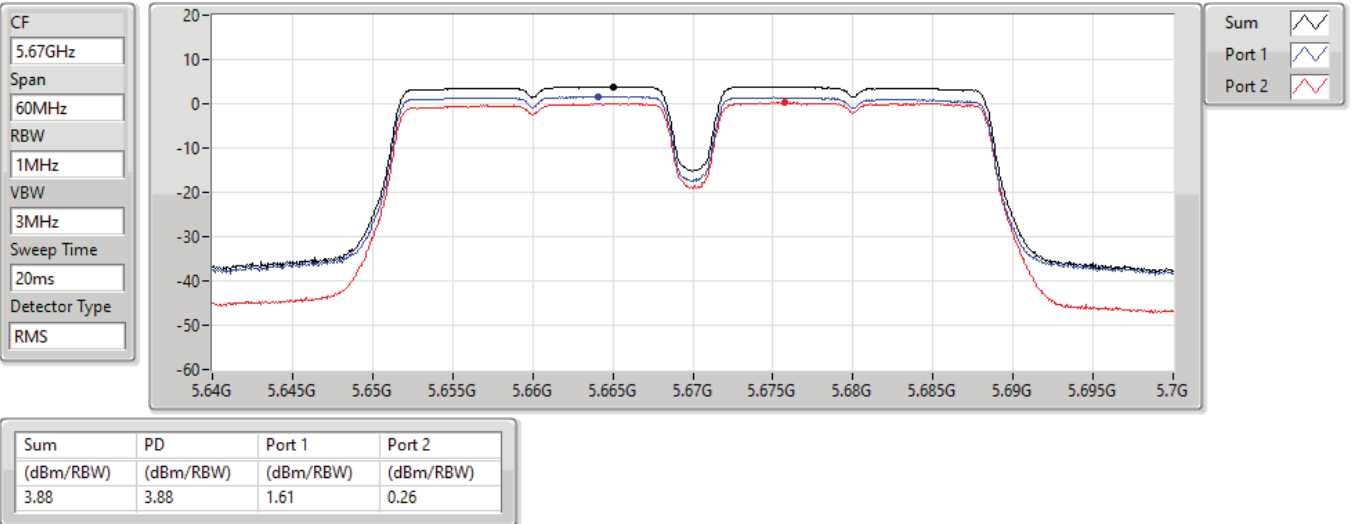


11a40_Nss1,(6Mbps)_2TX

PSD

5670MHz

28/07/2021

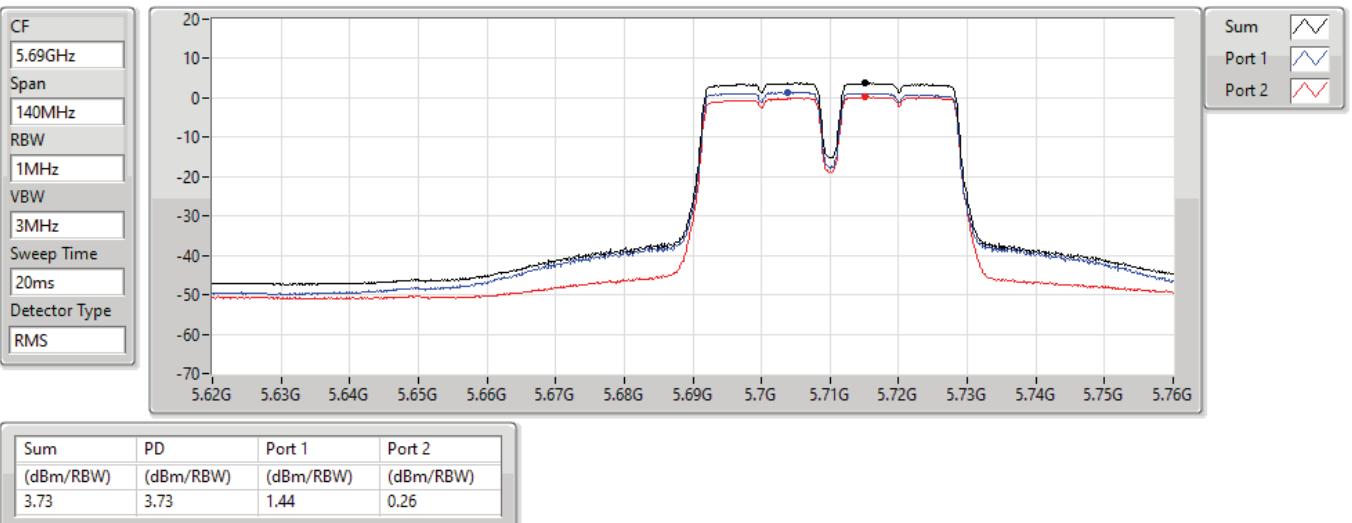


11a40_Nss1,(6Mbps)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

28/07/2021

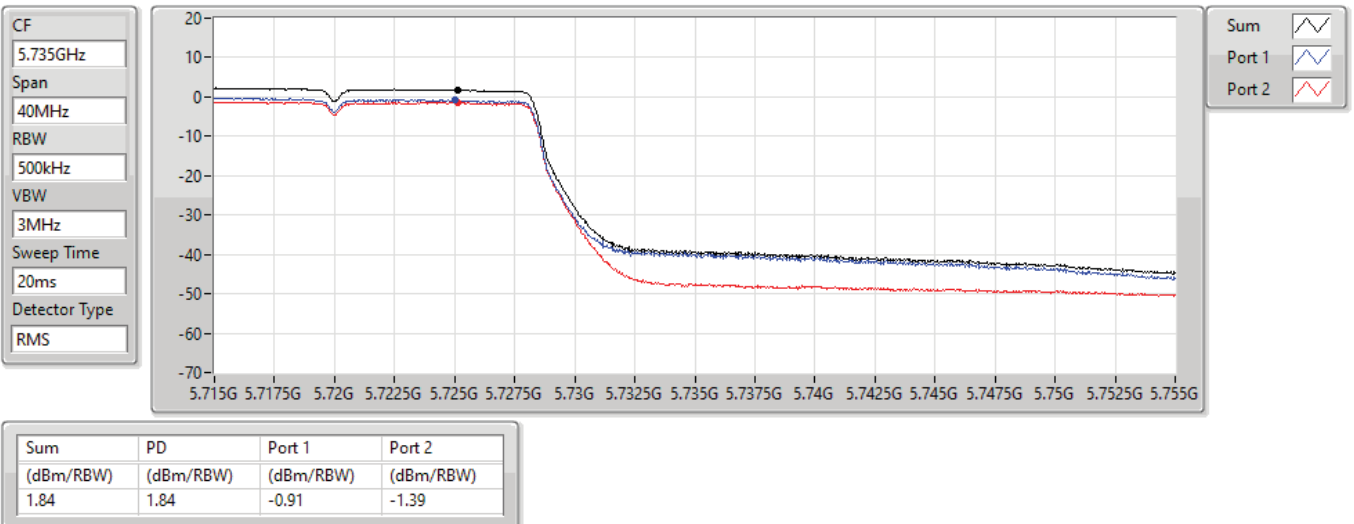


11a40_Nss1,(6Mbps)_2TX

5710MHz Straddle 5.725-5.85GHz

PSD

28/07/2021

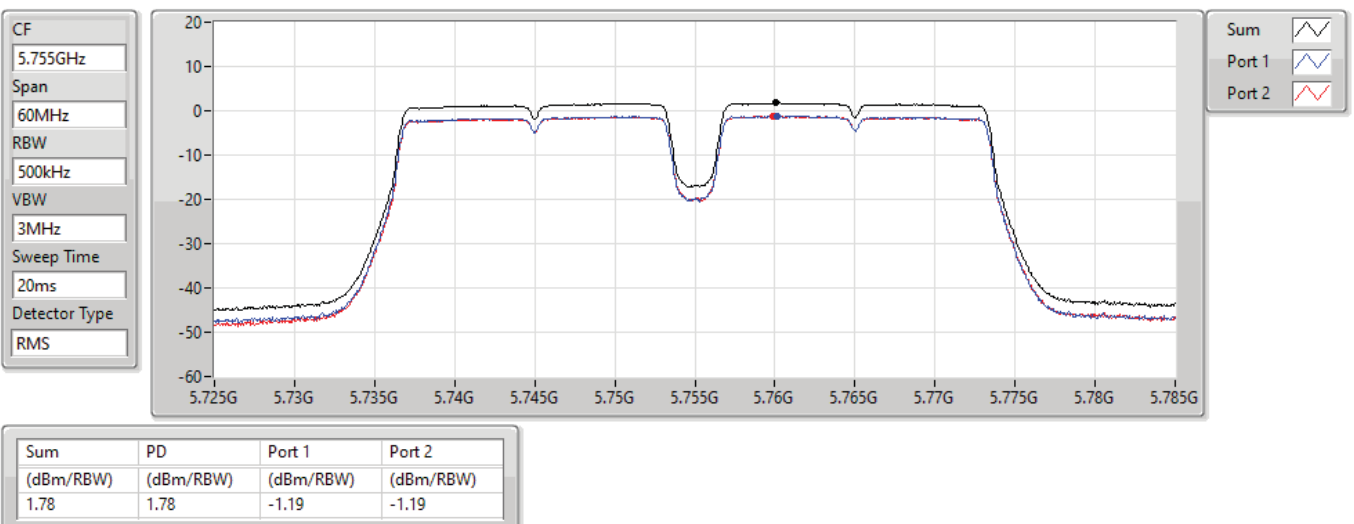


11a40_Nss1,(6Mbps)_2TX

5755MHz

PSD

28/07/2021

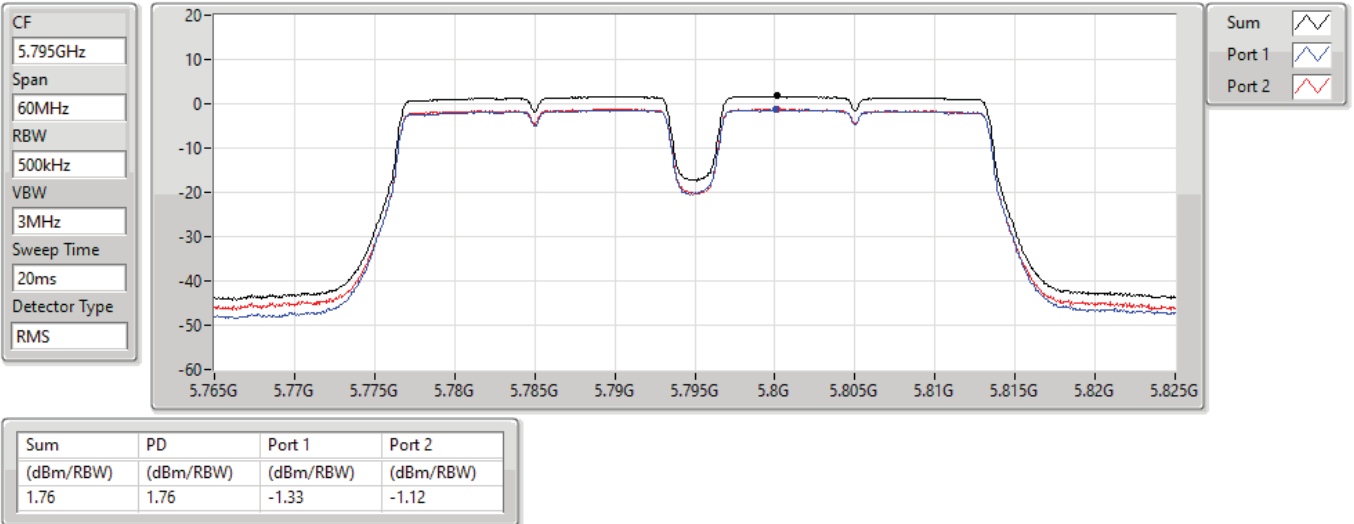


11a40_Nss1,(6Mbps)_2TX

5795MHz

PSD

28/07/2021

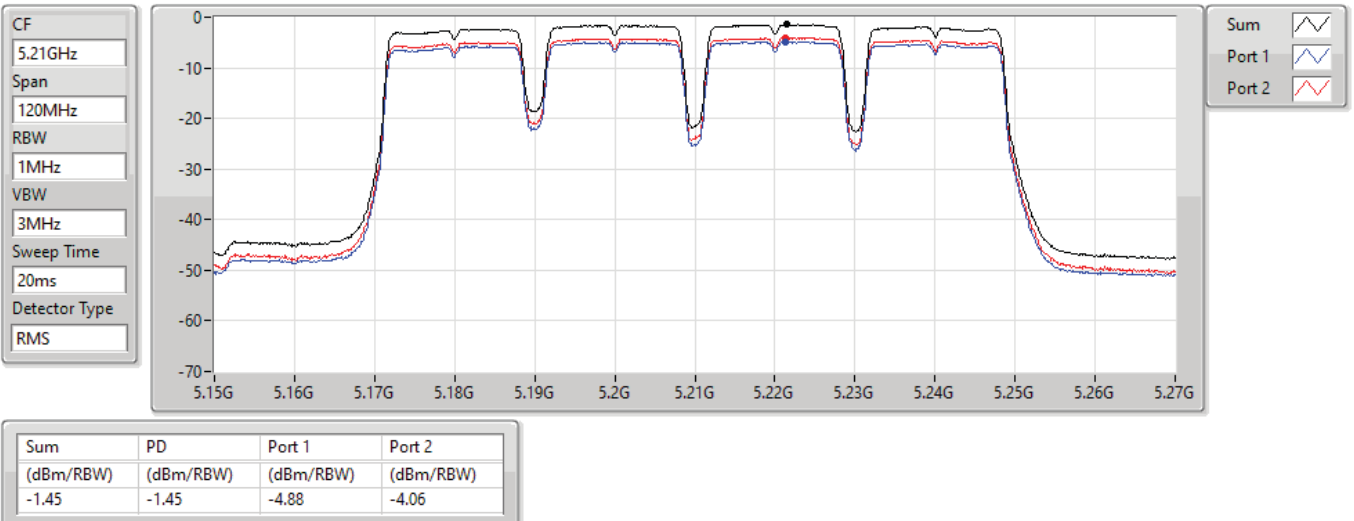


11a80_Nss1,(6Mbps)_2TX

5210MHz

PSD

28/07/2021

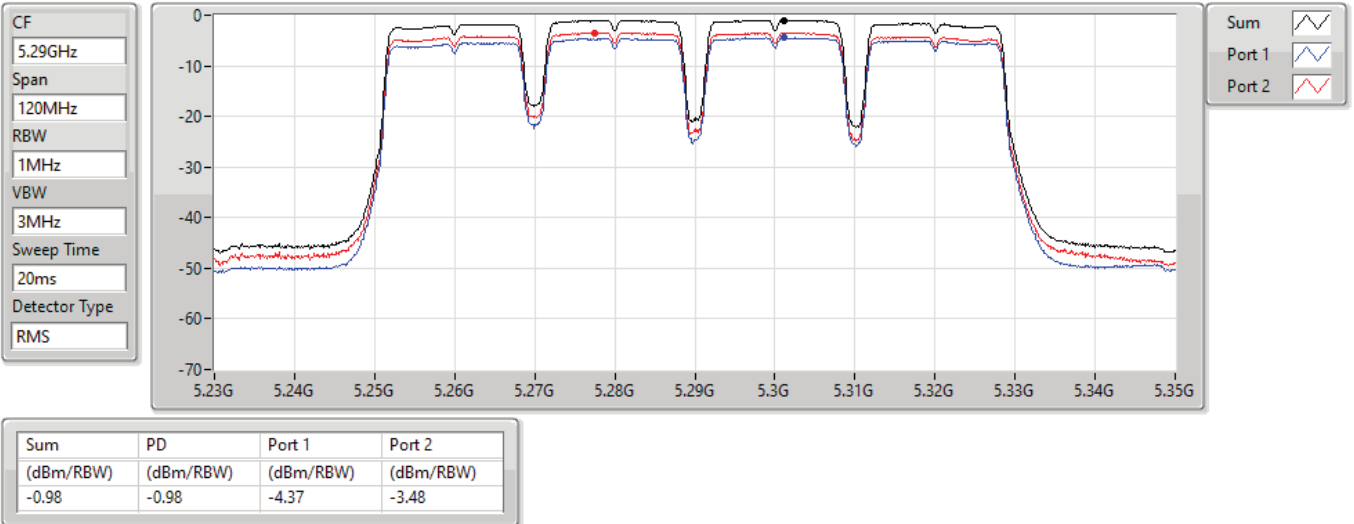


11a80_Nss1,(6Mbps)_2TX

PSD

5290MHz

28/07/2021

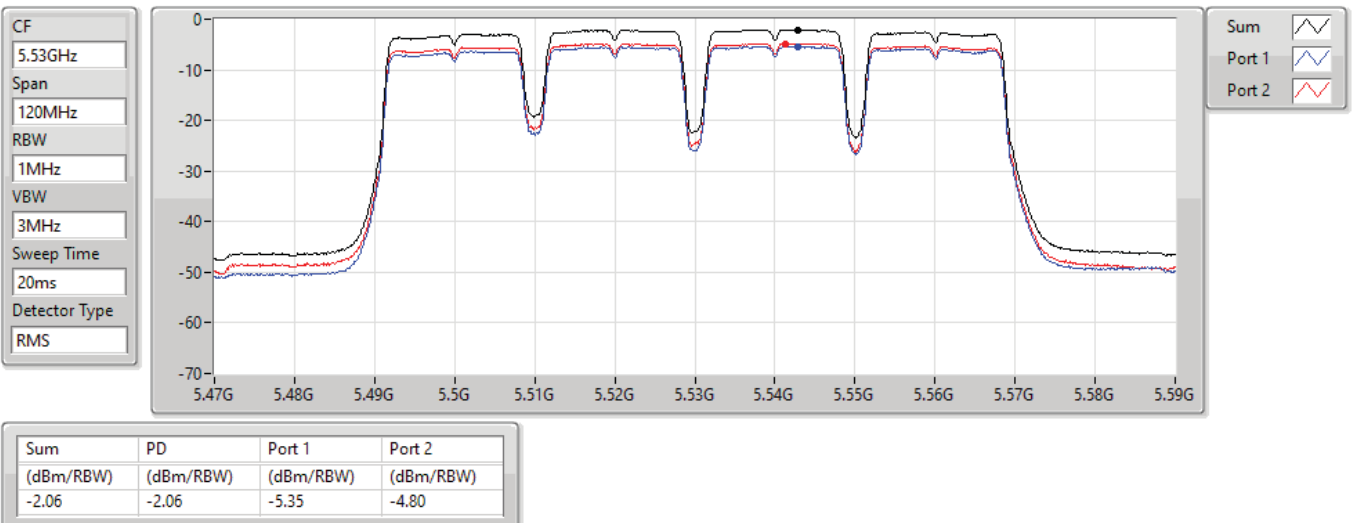


11a80_Nss1,(6Mbps)_2TX

PSD

5530MHz

28/07/2021



11a80_Nss1,(6Mbps)_2TX

PSD

5610MHz

28/07/2021

CF
5.61GHz

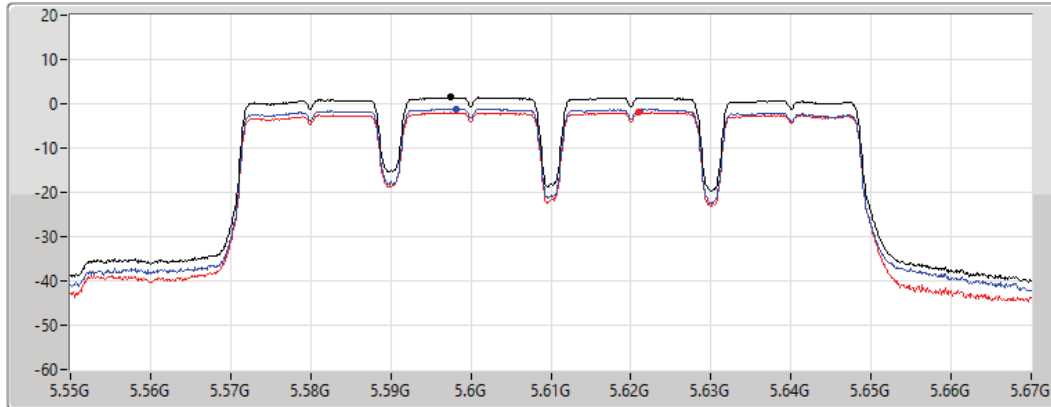
Span
120MHz

RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.41	1.41	-1.13	-1.94

11a80_Nss1,(6Mbps)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

28/07/2021

CF
5.65GHz

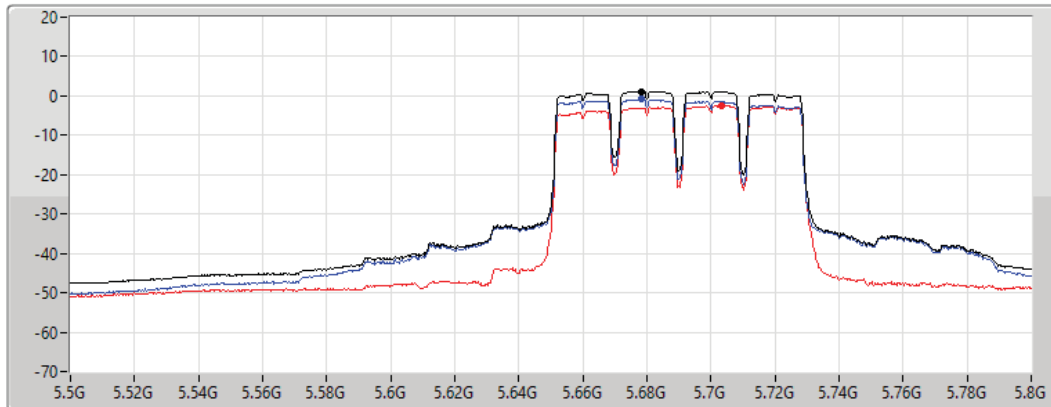
Span
300MHz

RBW
1MHz

VBW
3MHz

Sweep Time
20ms

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

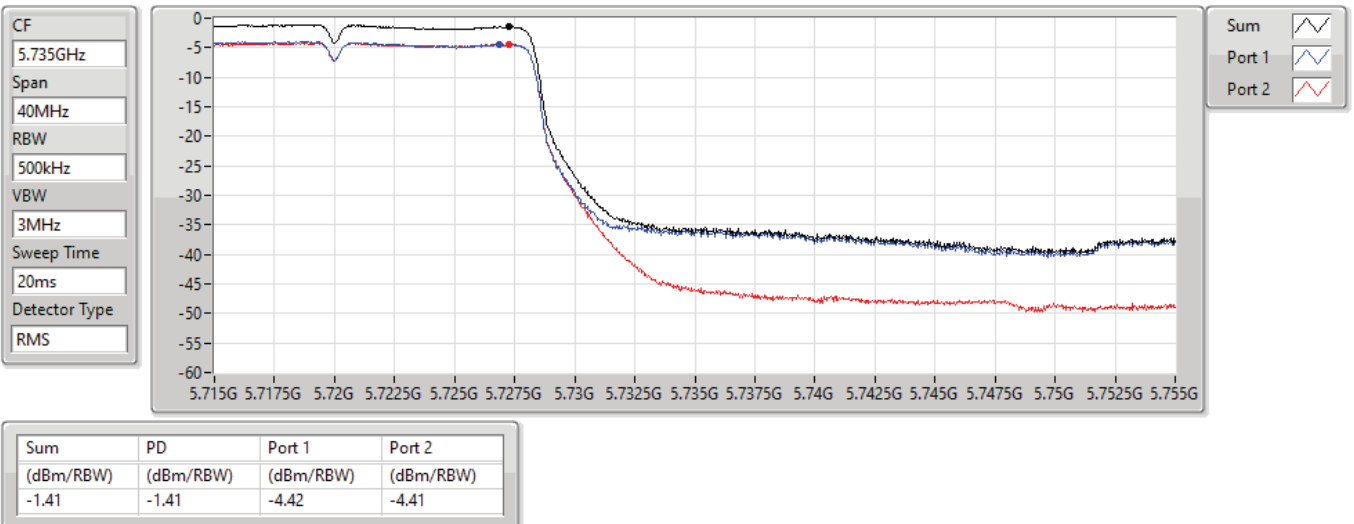
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.18	1.18	-0.88	-2.51

11a80_Nss1,(6Mbps)_2TX

5690MHz Straddle 5.725-5.85GHz

PSD

28/07/2021

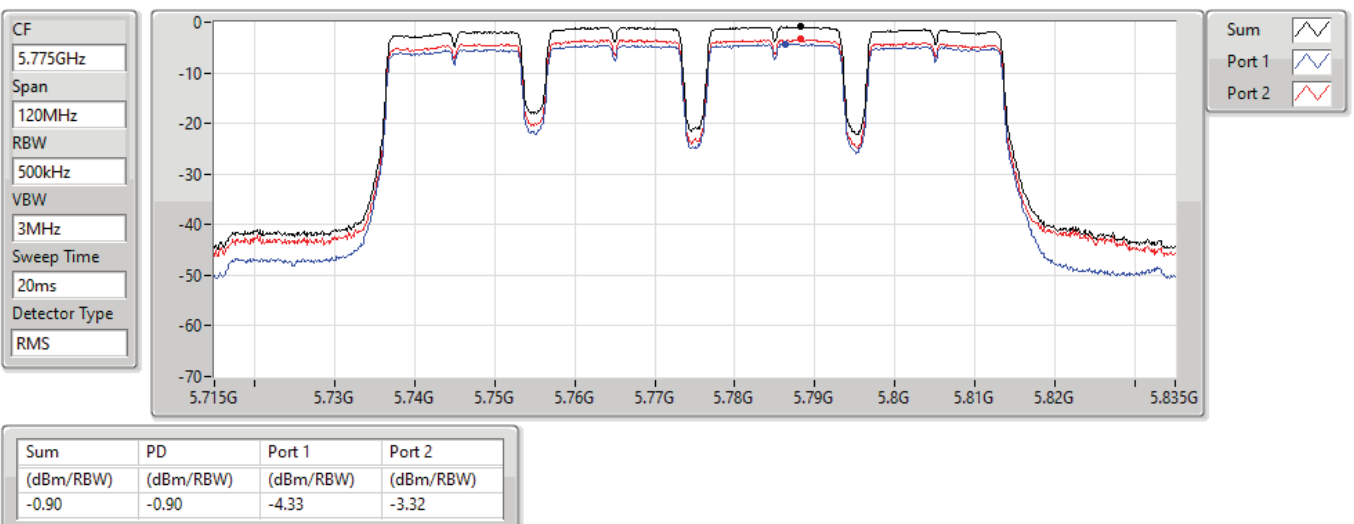


11a80_Nss1,(6Mbps)_2TX

5775MHz

PSD

28/07/2021

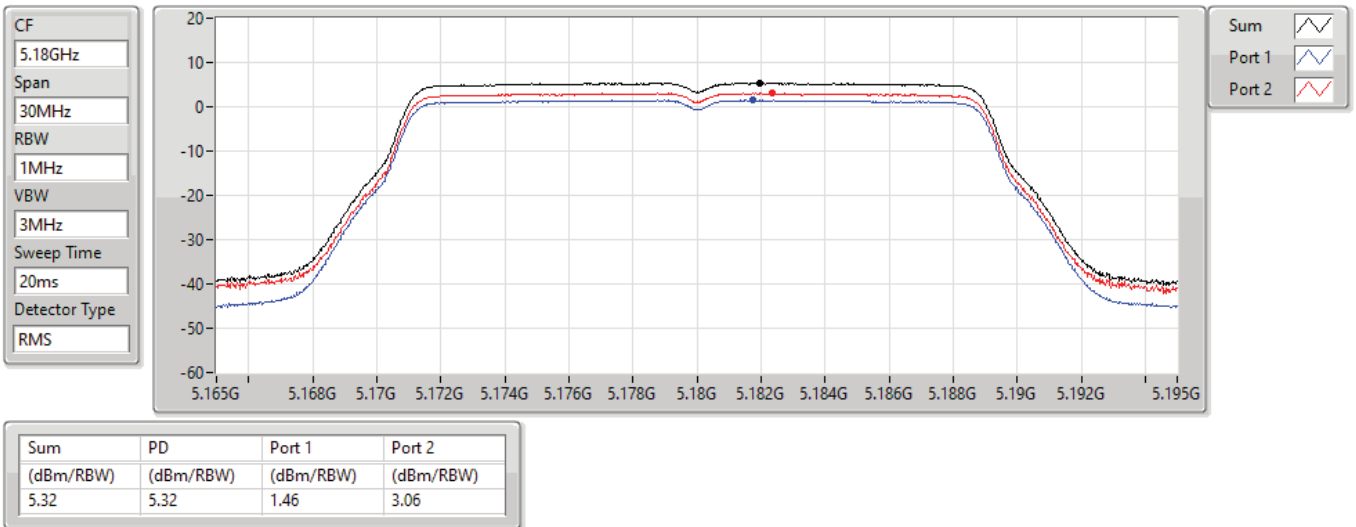


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

30/07/2021

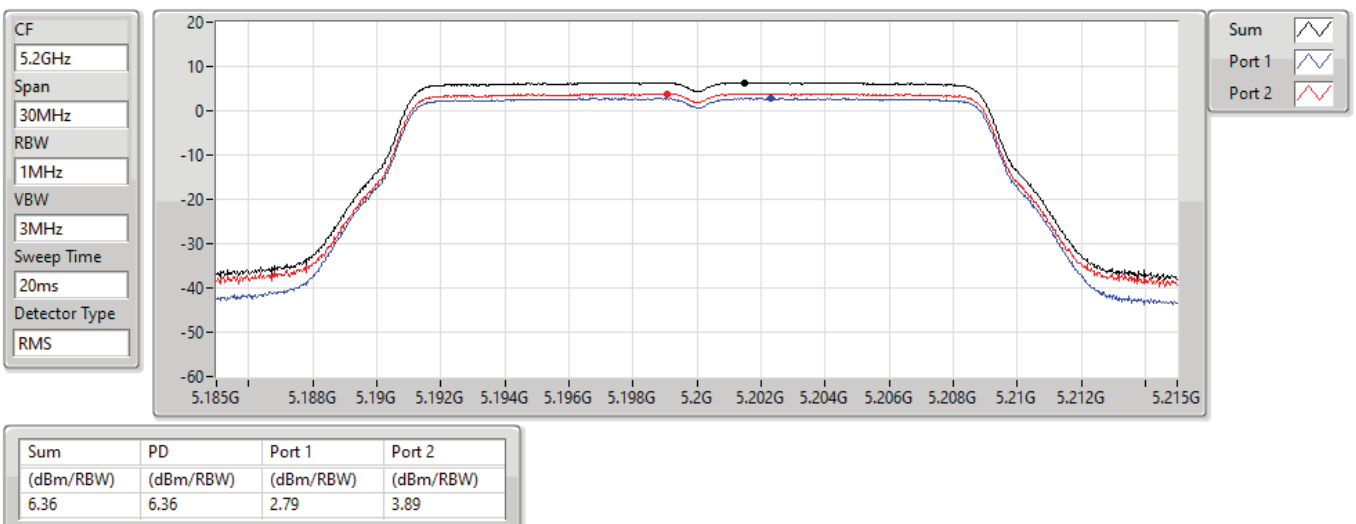


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

30/07/2021

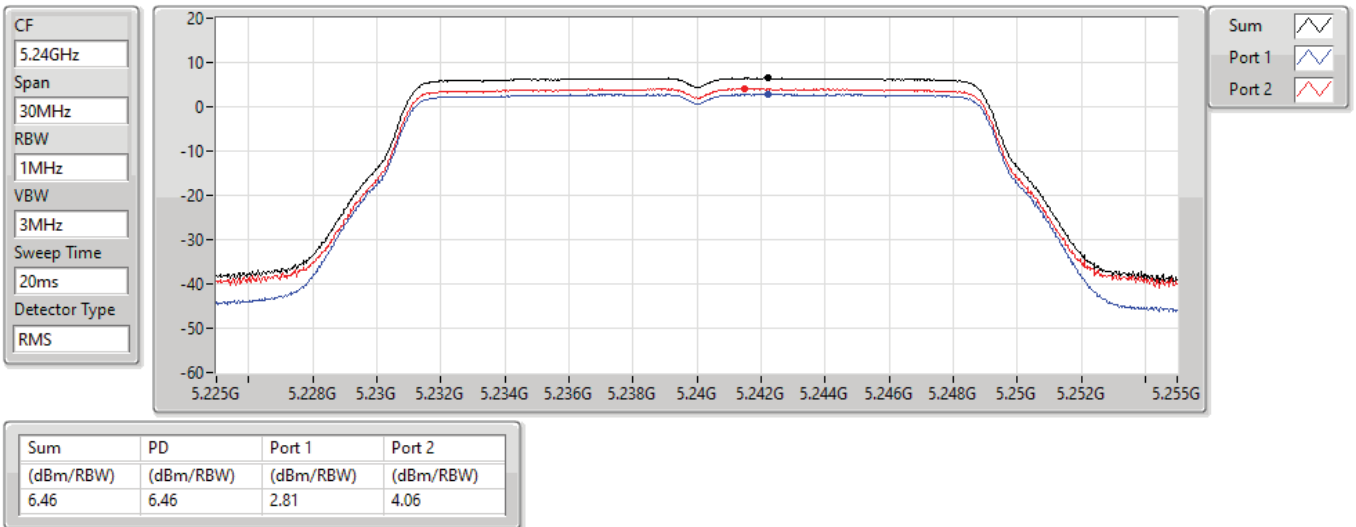


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

30/07/2021

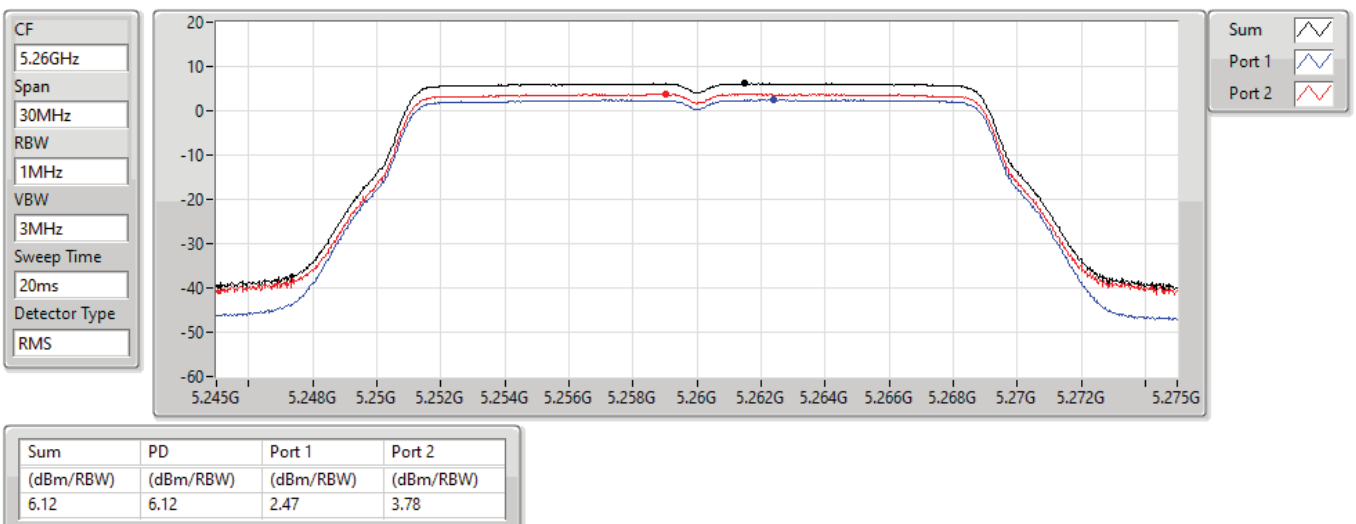


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

30/07/2021

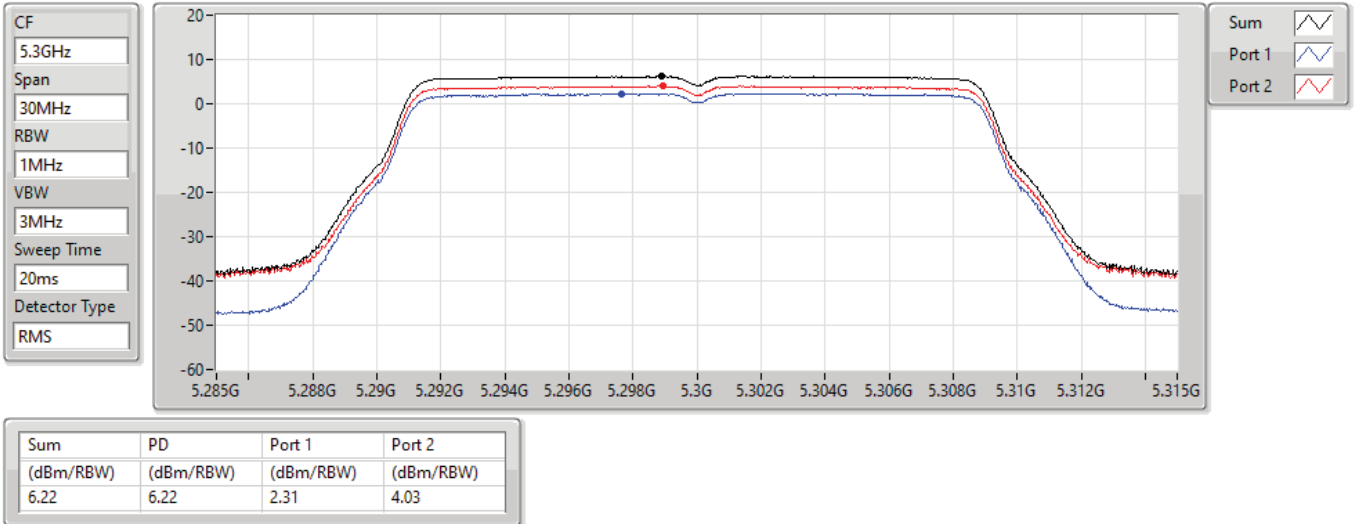


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

30/07/2021

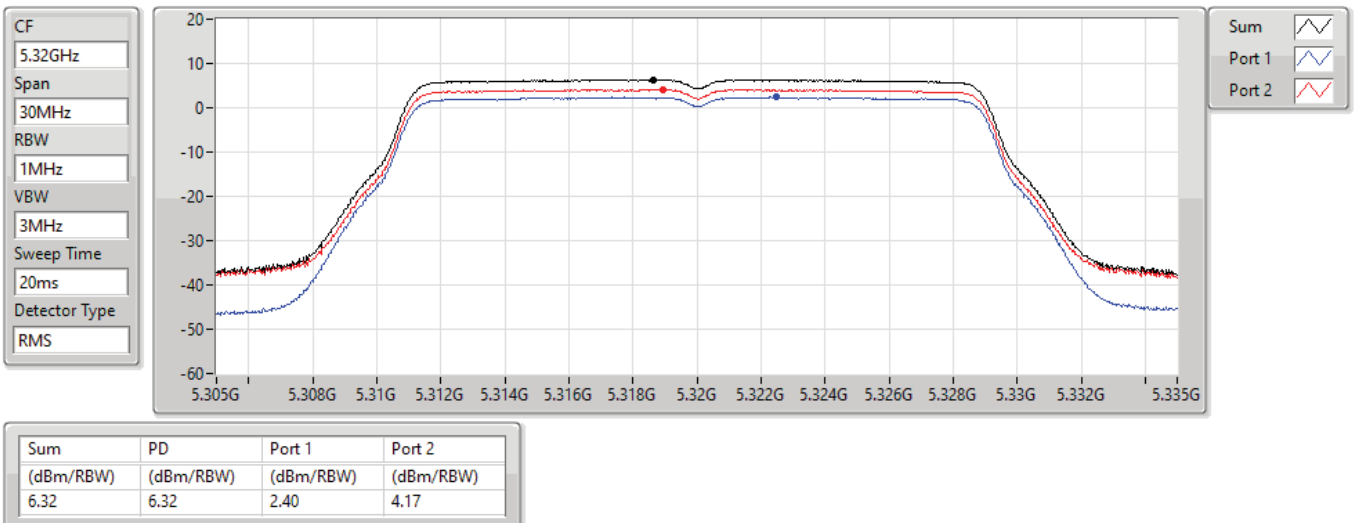


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

30/07/2021

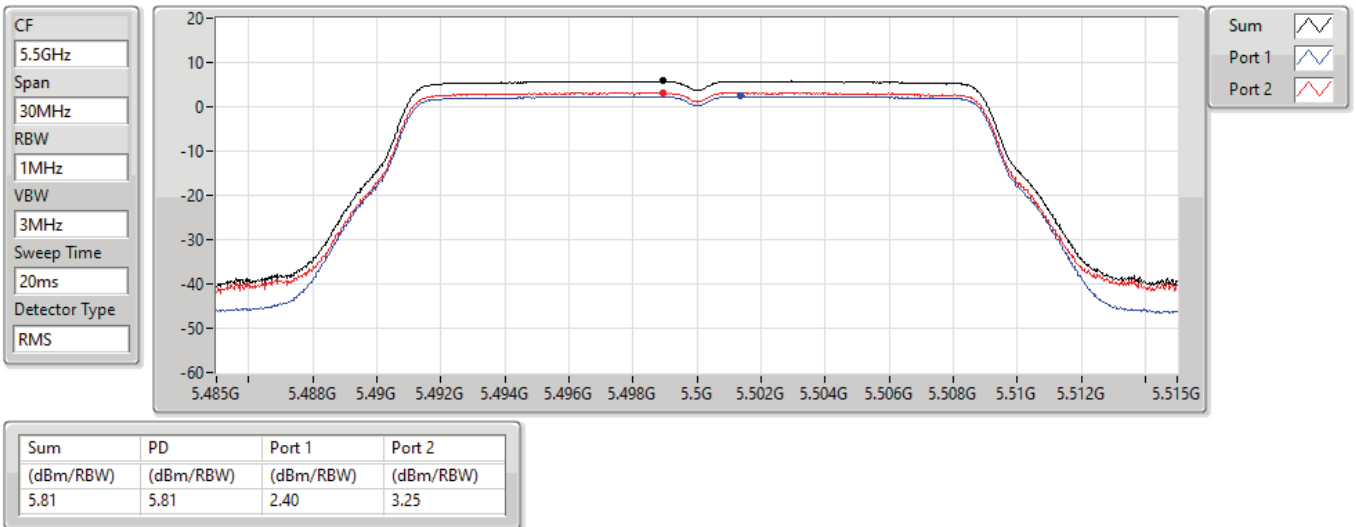


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

30/07/2021

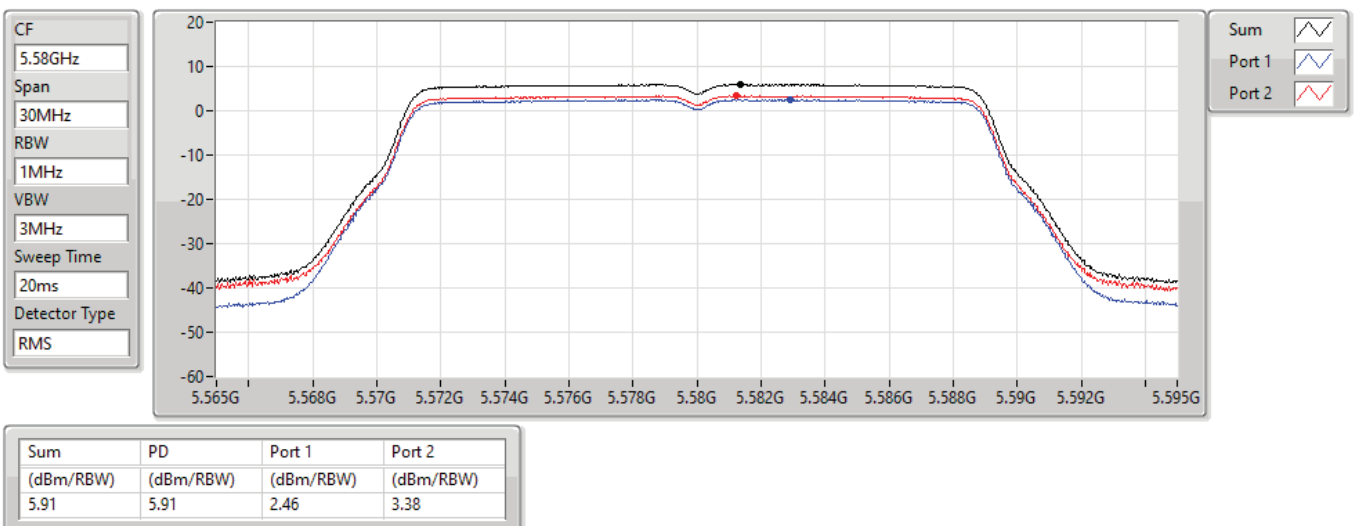


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

30/07/2021

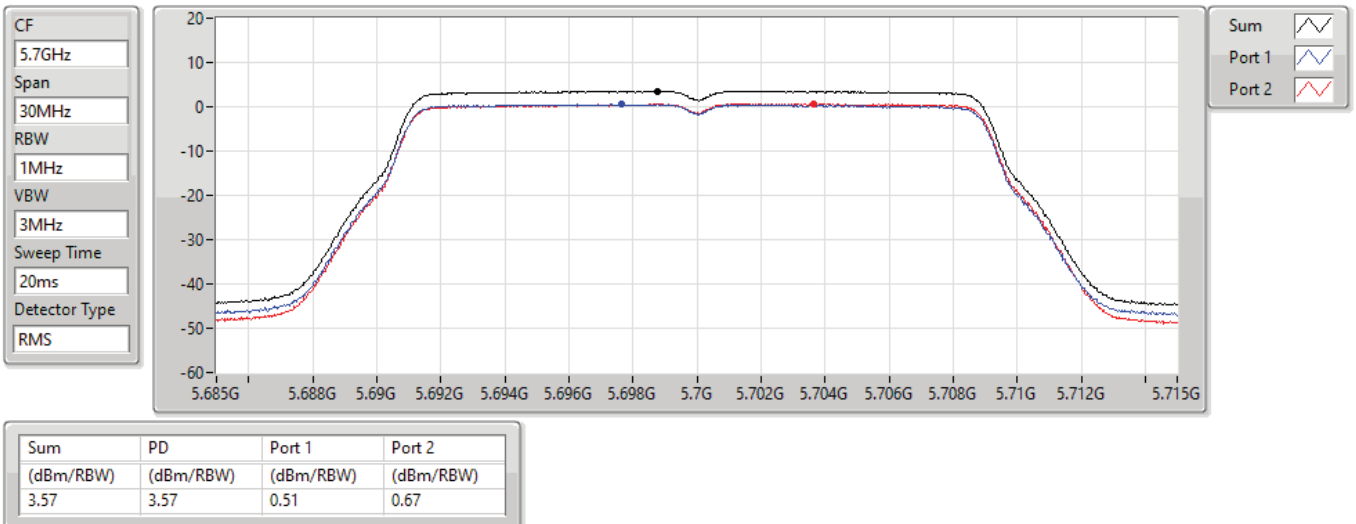


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5700MHz

30/07/2021

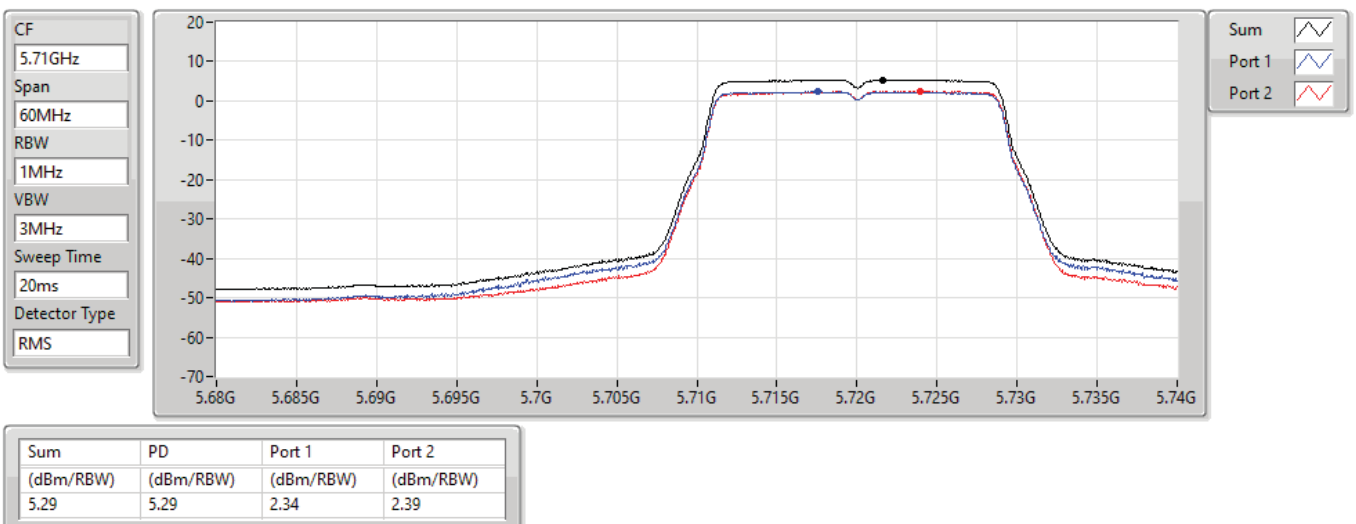


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

30/07/2021

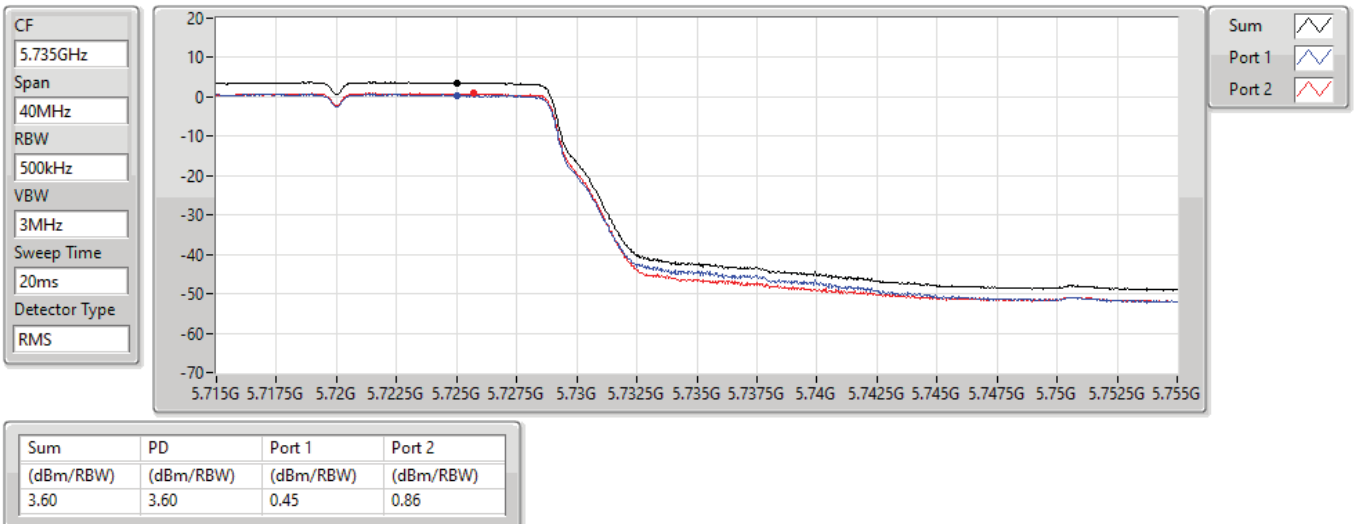


802.11ac VHT20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.725-5.85GHz

PSD

30/07/2021

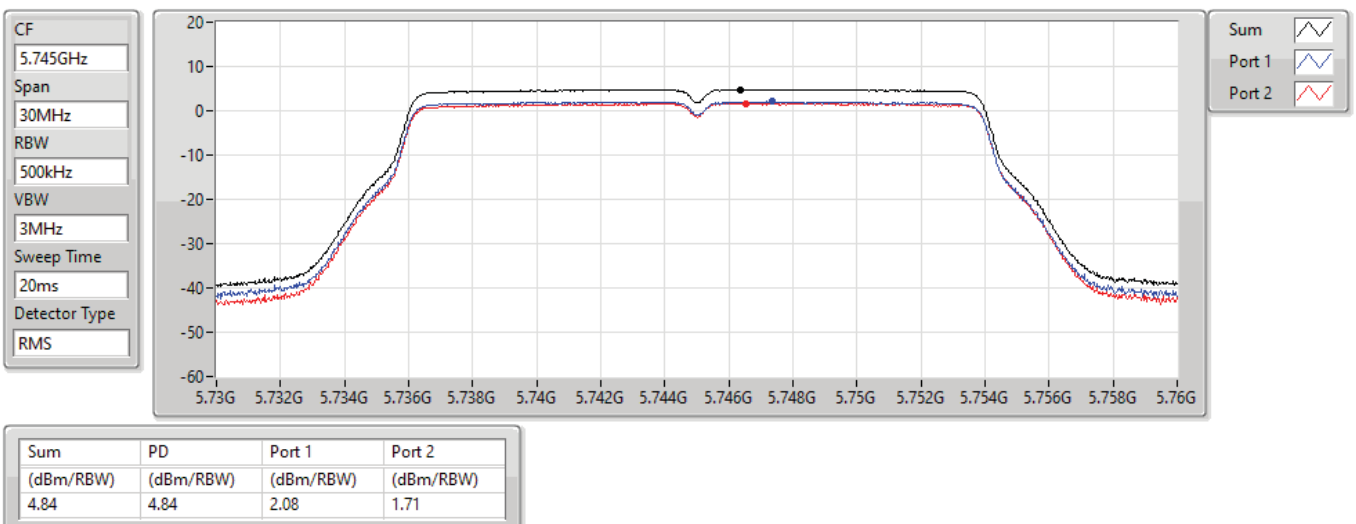


802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz

PSD

30/07/2021

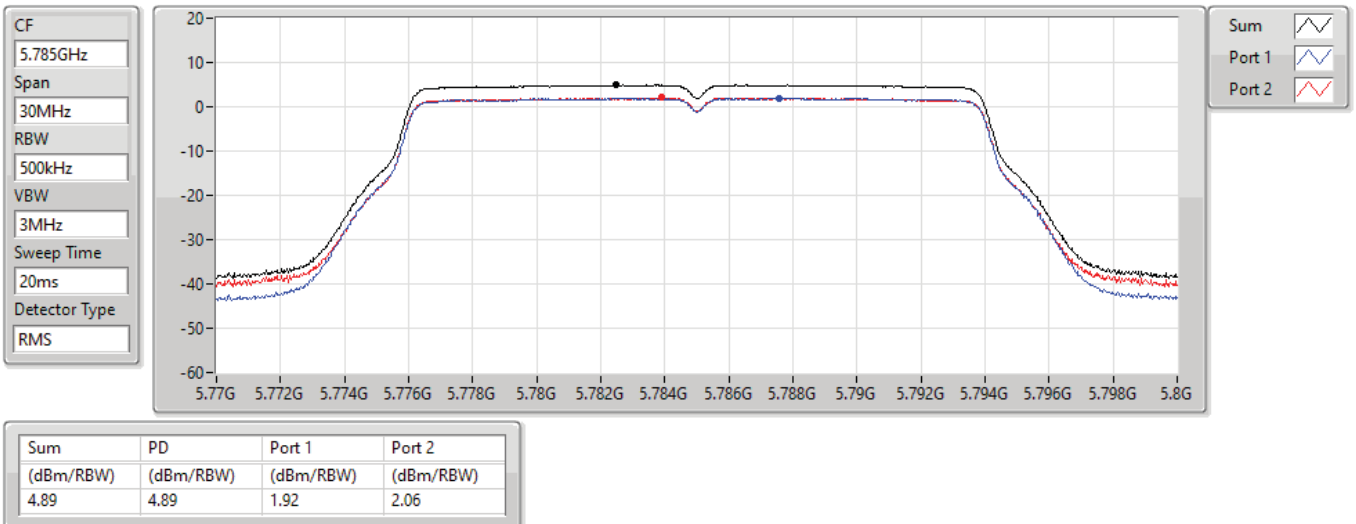


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

30/07/2021

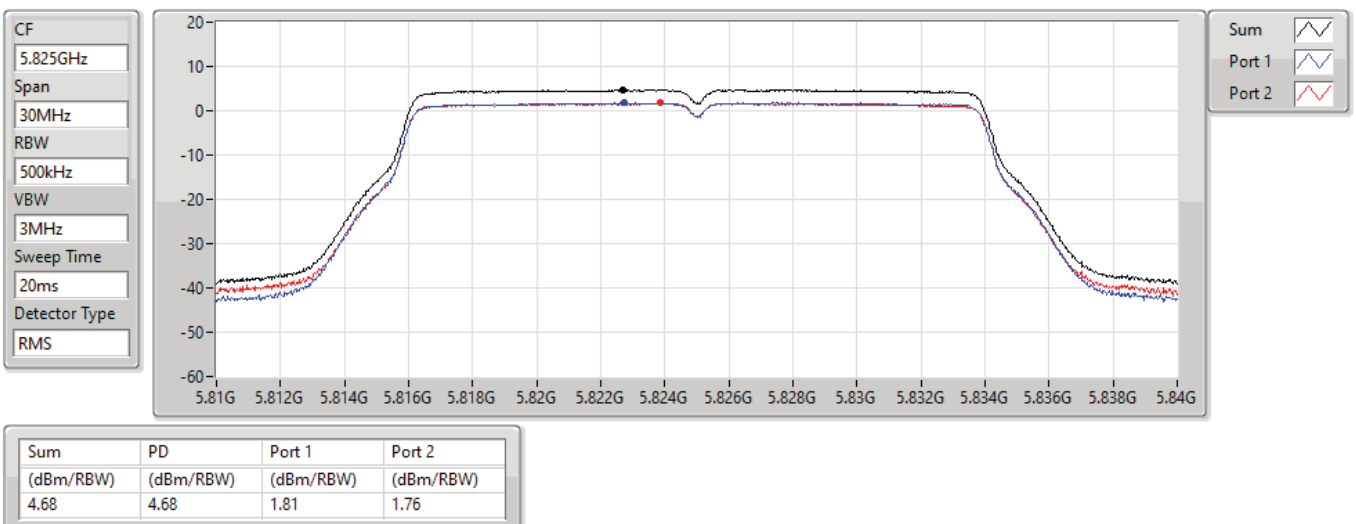


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

30/07/2021

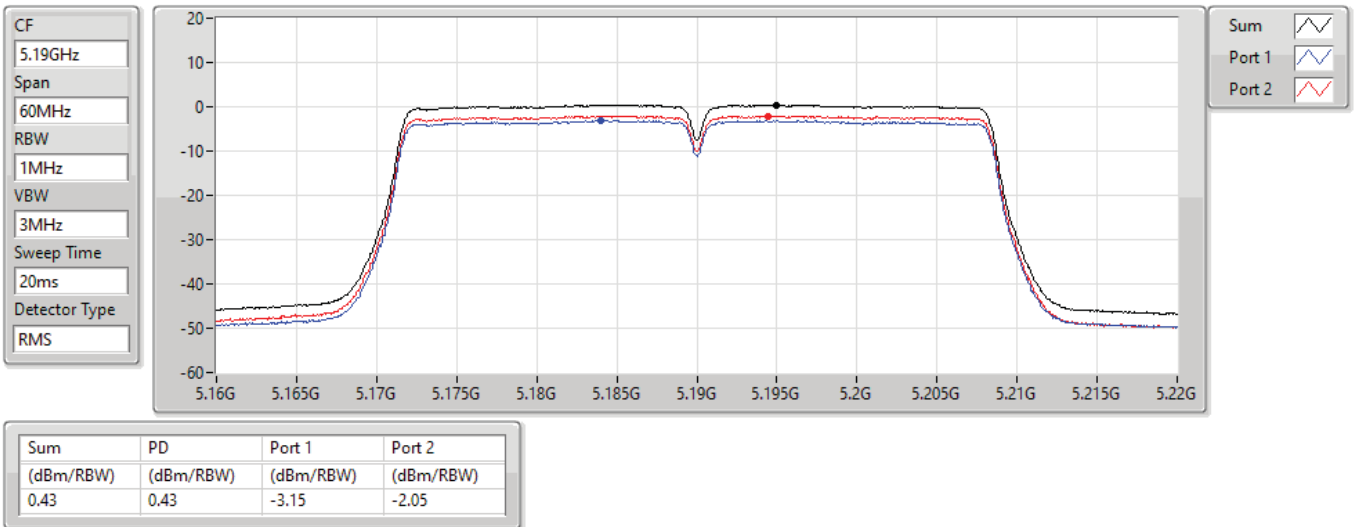


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

30/07/2021

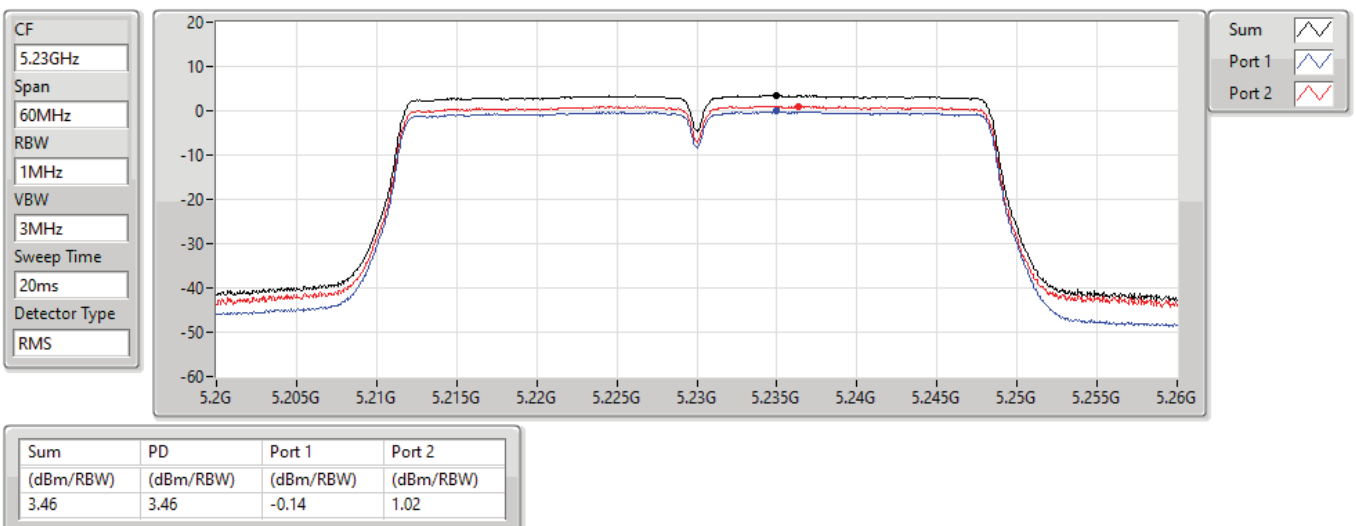


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

30/07/2021

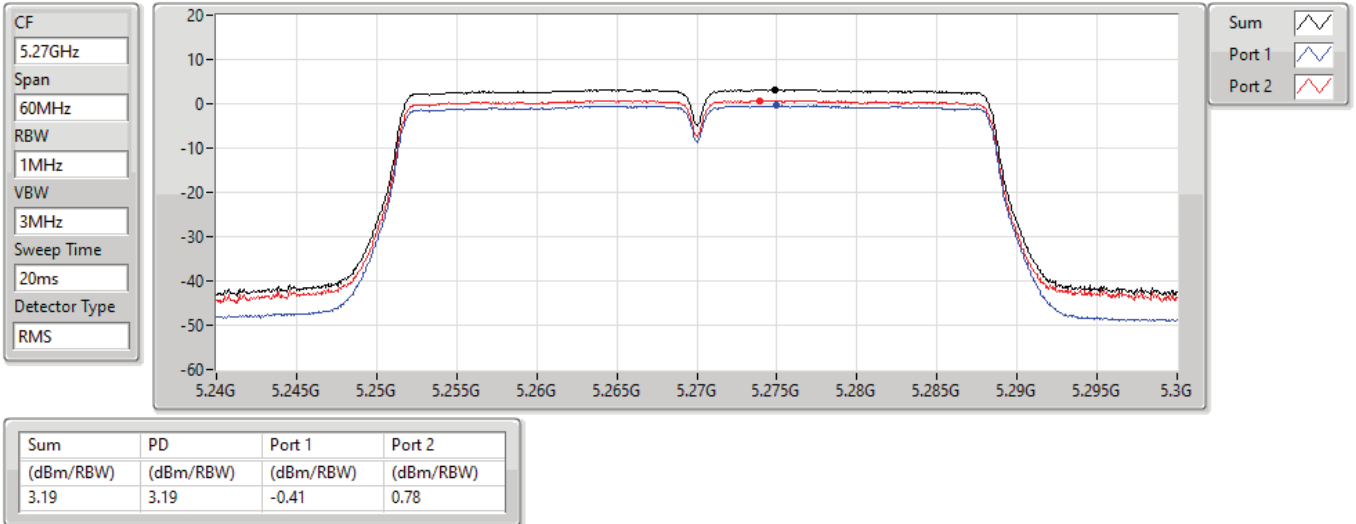


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5270MHz

30/07/2021

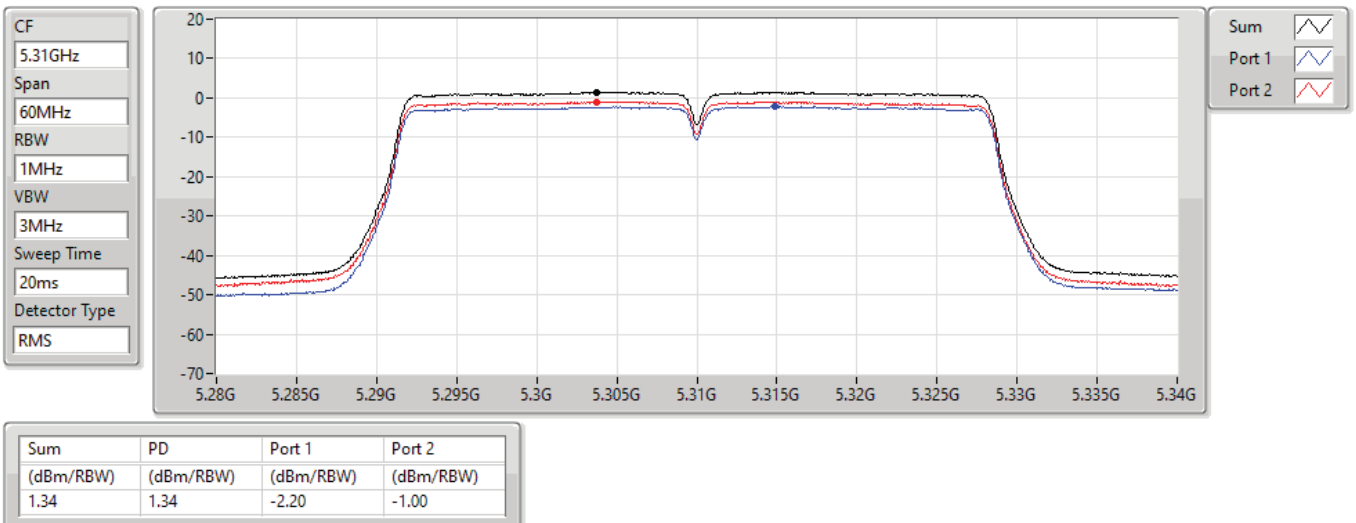


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5310MHz

30/07/2021

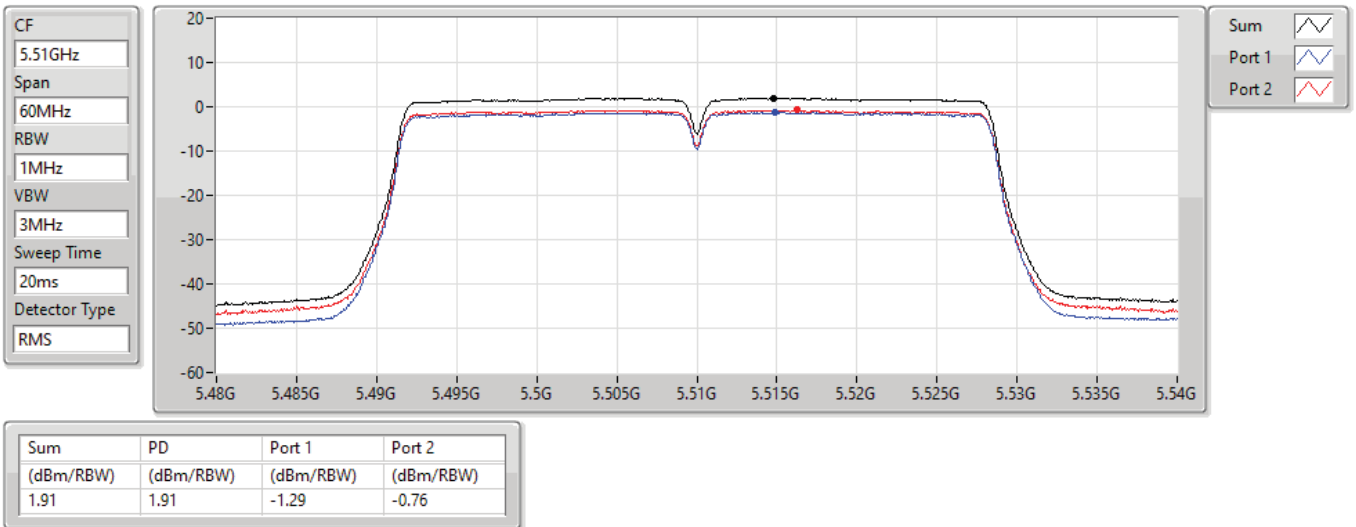


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5510MHz

30/07/2021

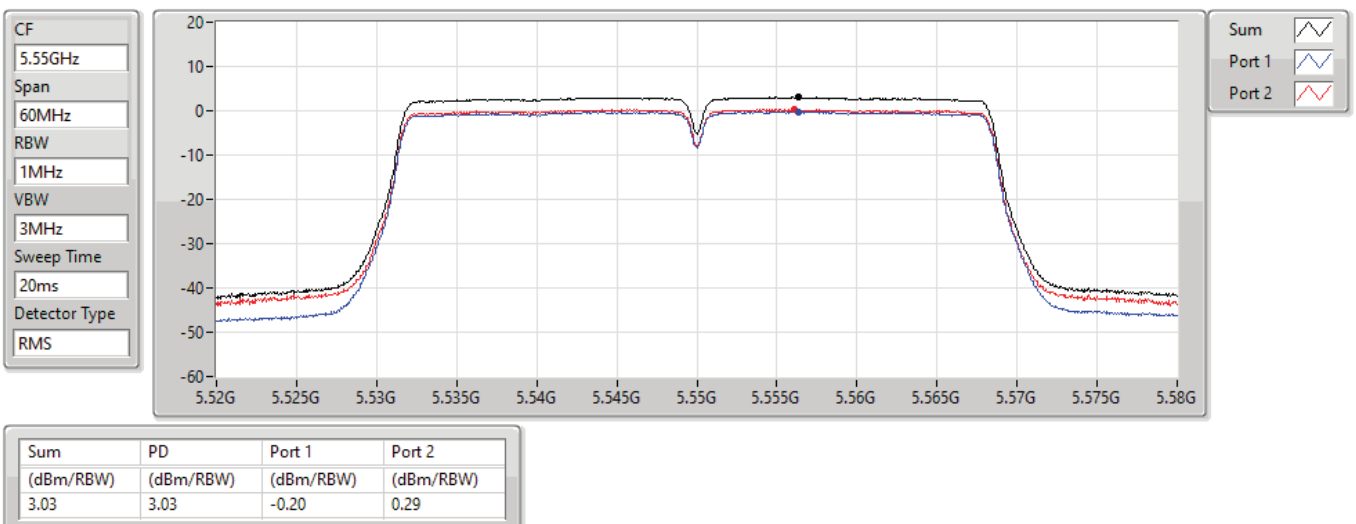


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5550MHz

30/07/2021

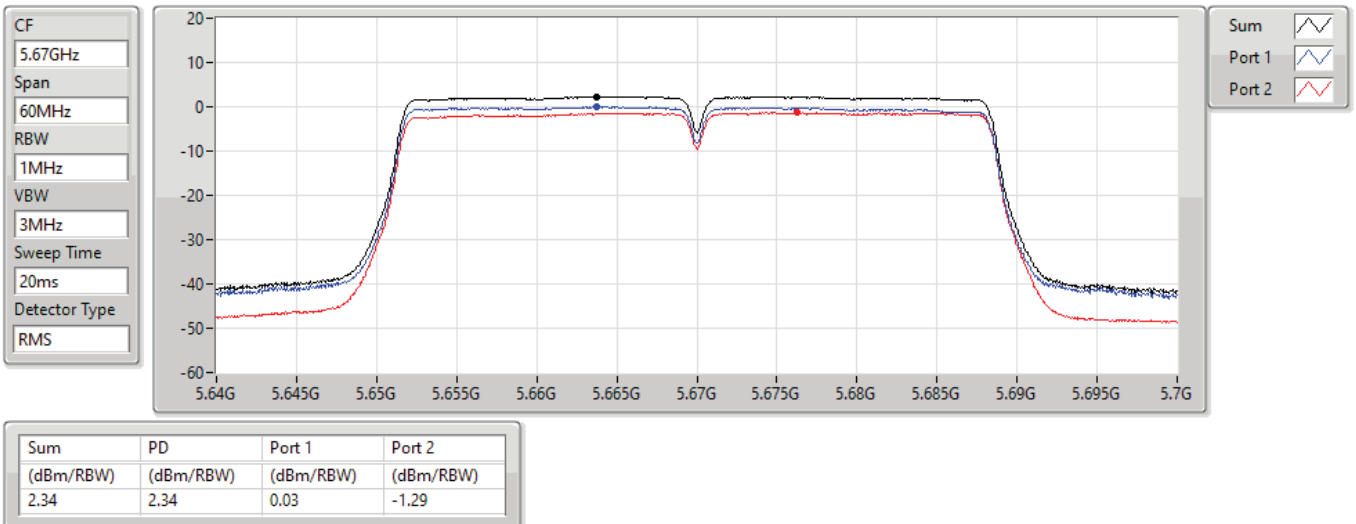


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5670MHz

30/07/2021

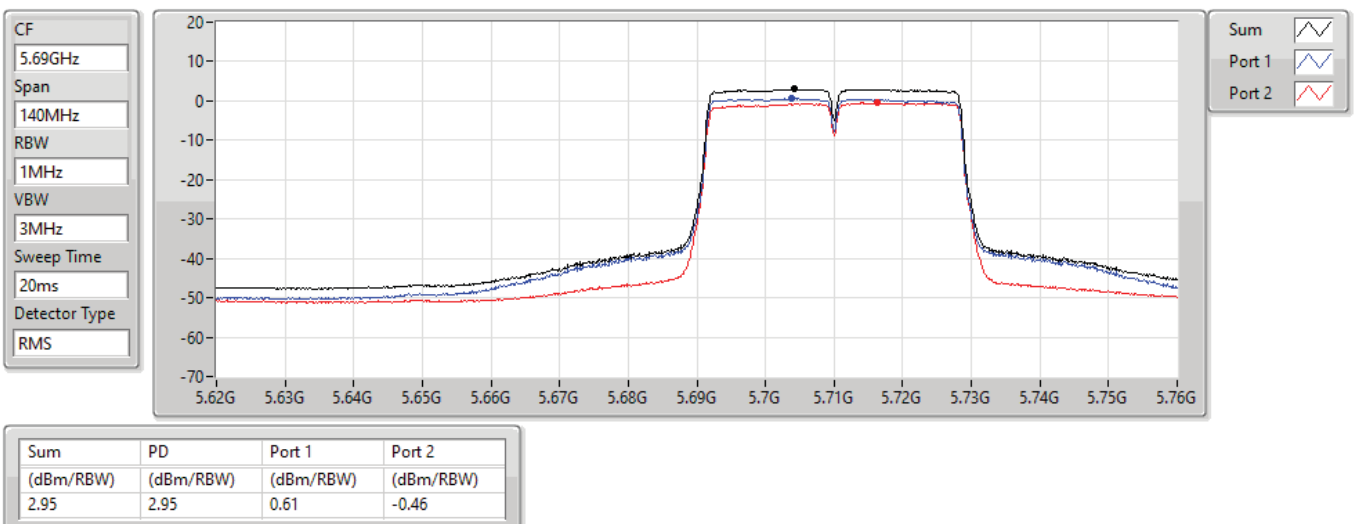


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

30/07/2021

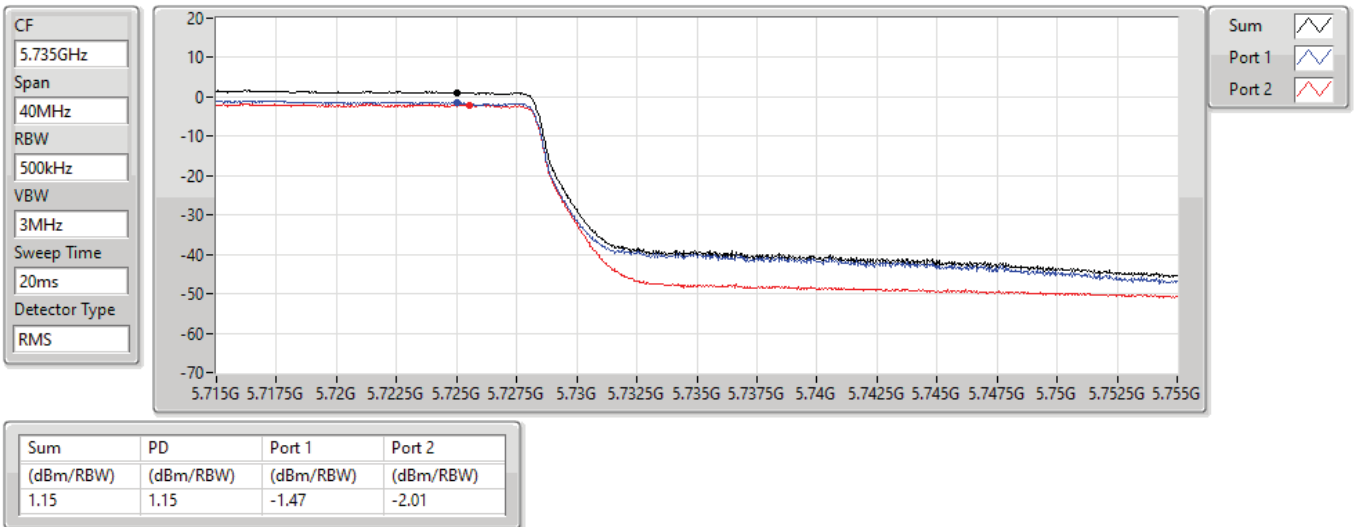


802.11ac VHT40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.725-5.85GHz

PSD

30/07/2021

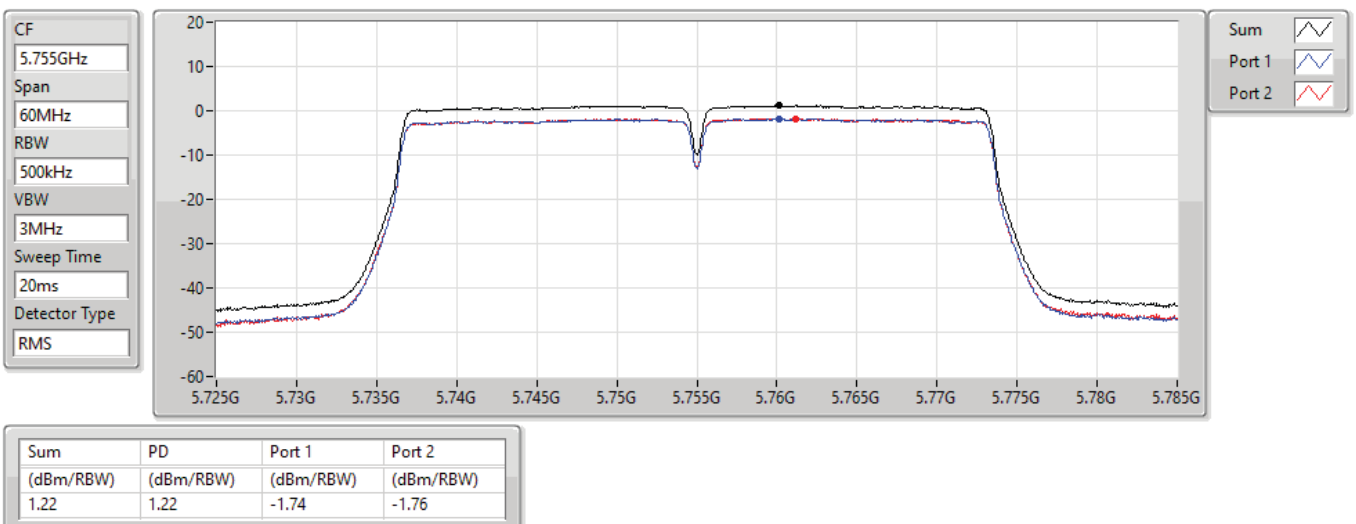


802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz

PSD

30/07/2021

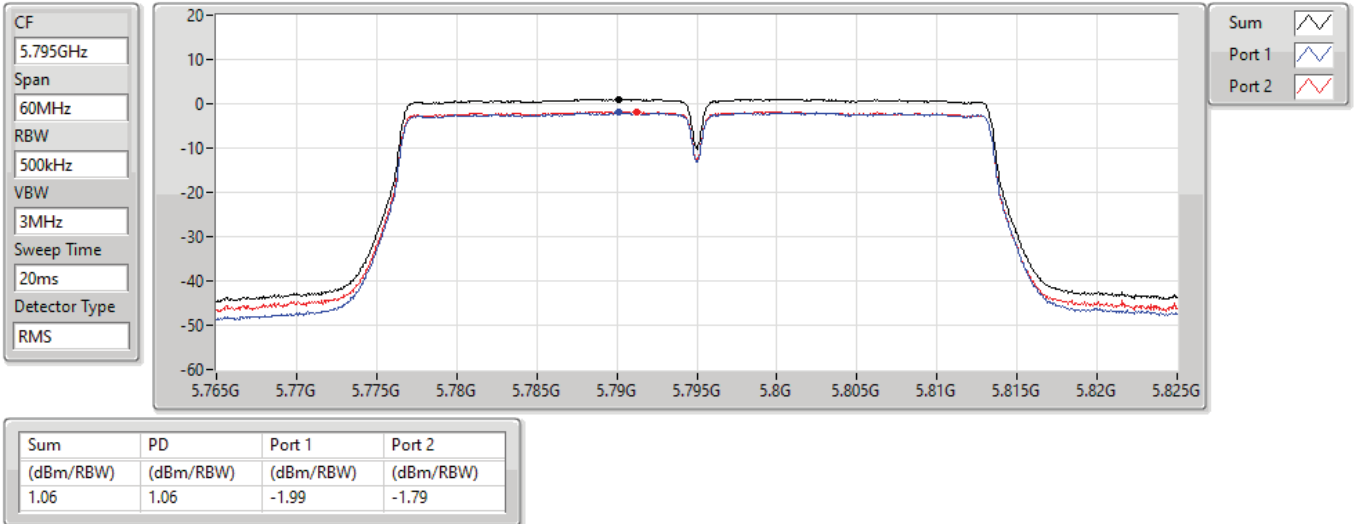


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

30/07/2021

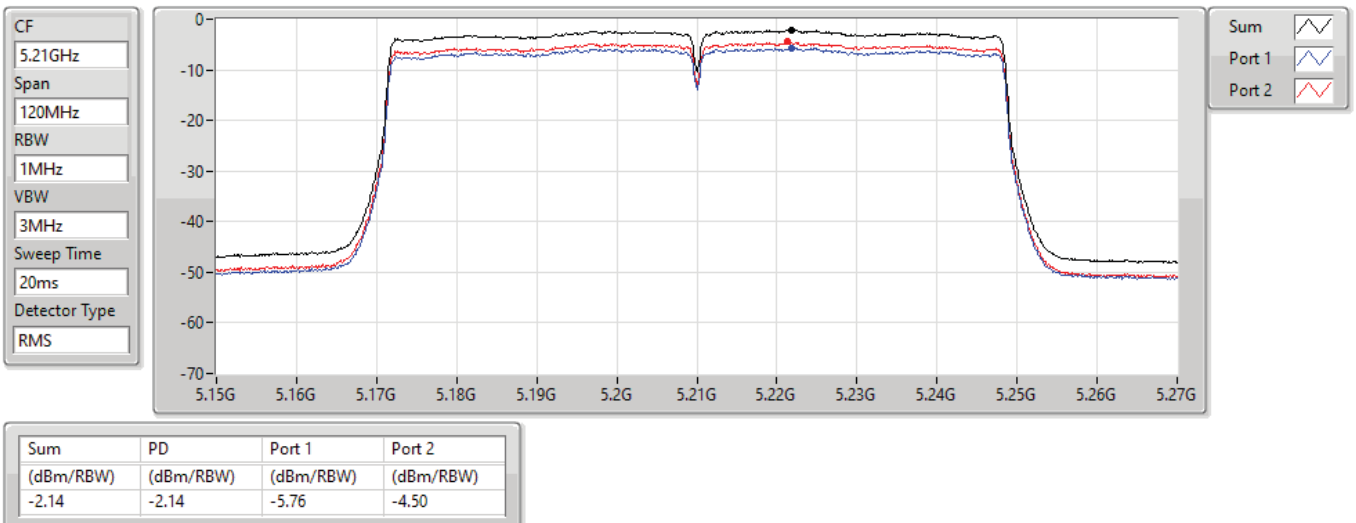


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

30/07/2021

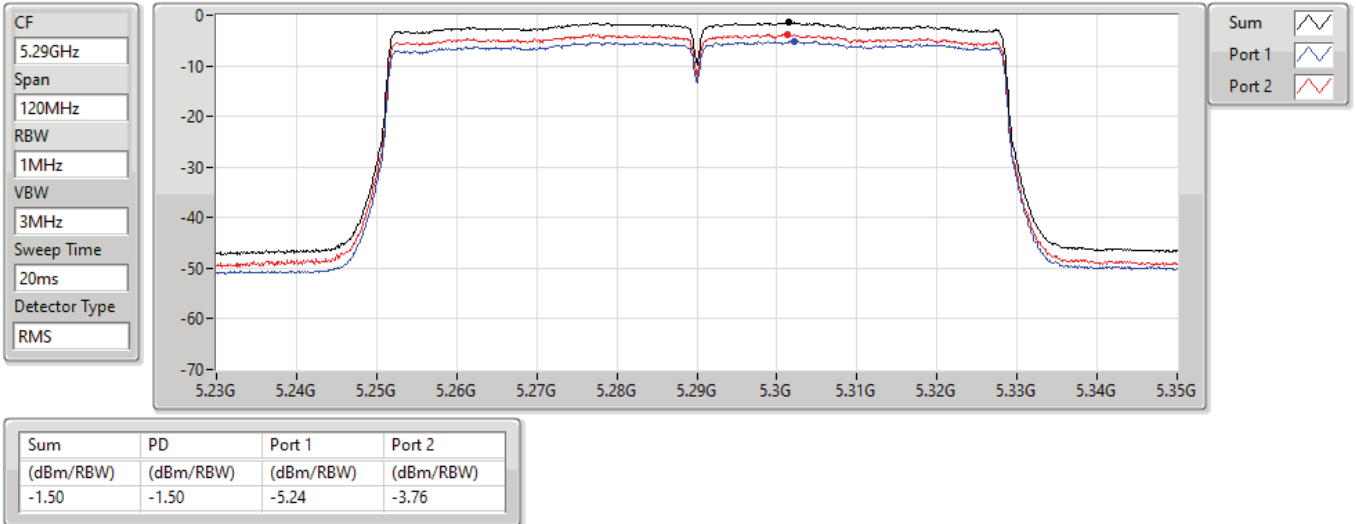


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5290MHz

30/07/2021

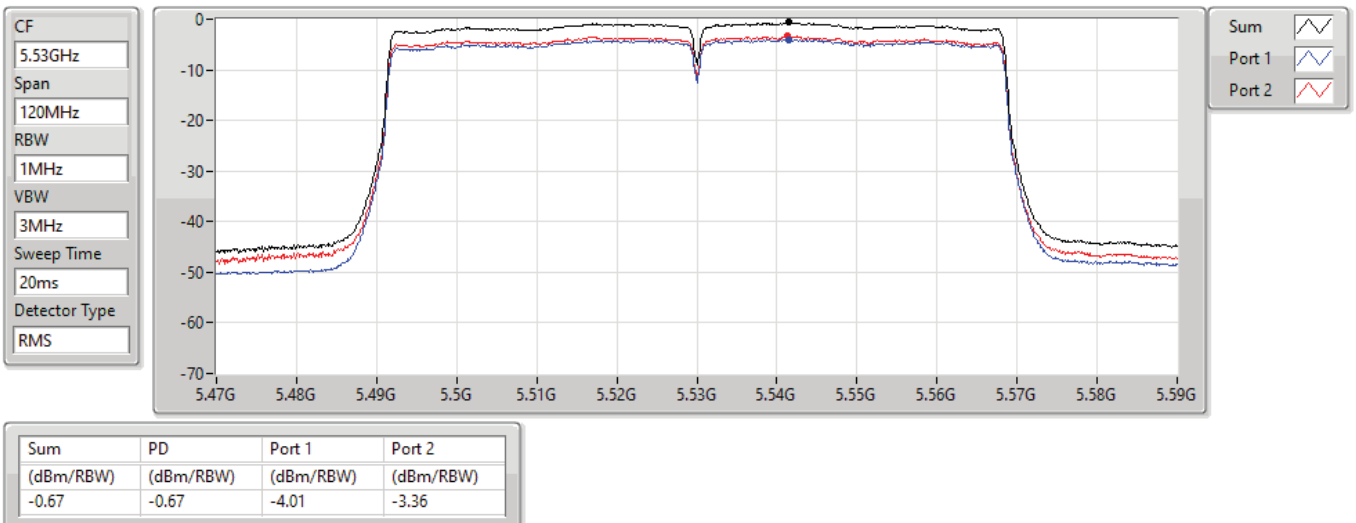


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5530MHz

30/07/2021

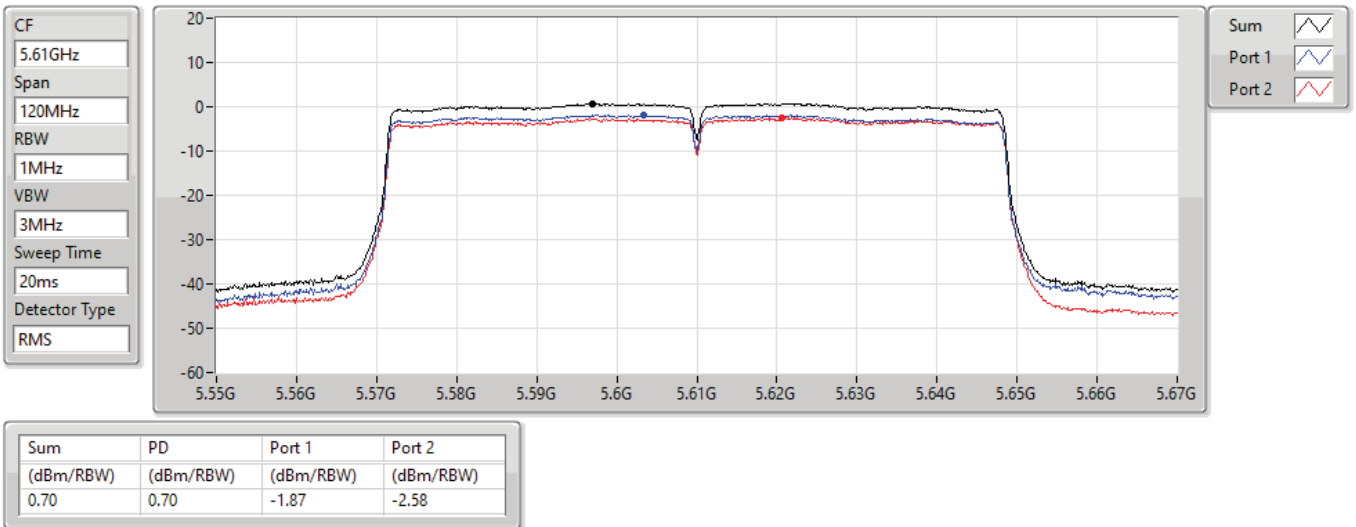


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5610MHz

30/07/2021

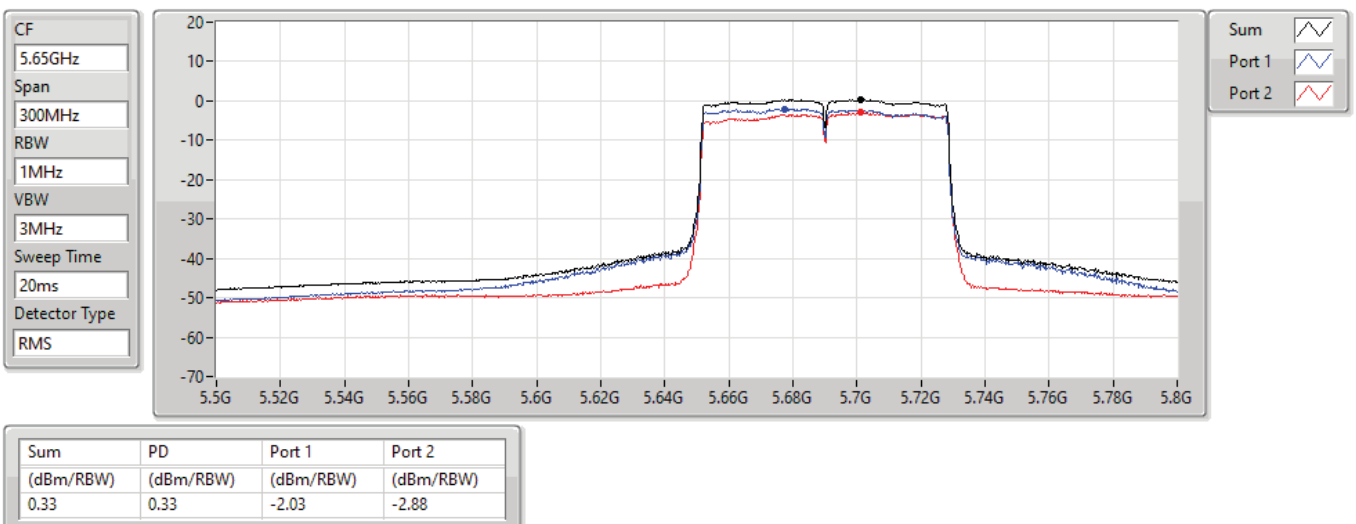


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

30/07/2021

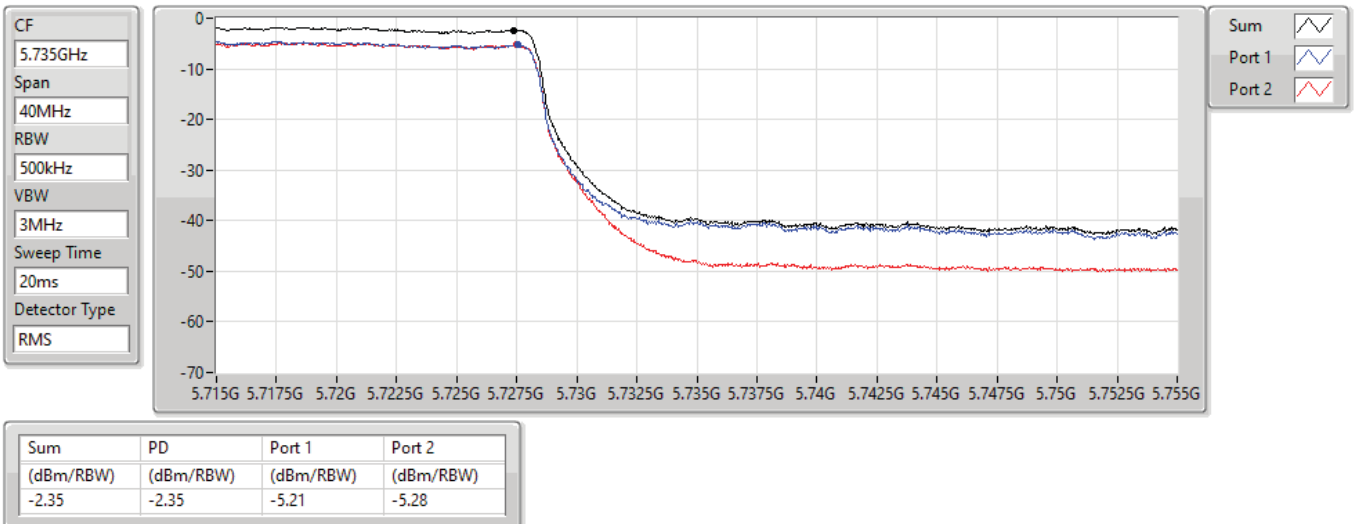


802.11ac VHT80_Nss1,(MCS0)_2TX

5690MHz Straddle 5.725-5.85GHz

PSD

30/07/2021

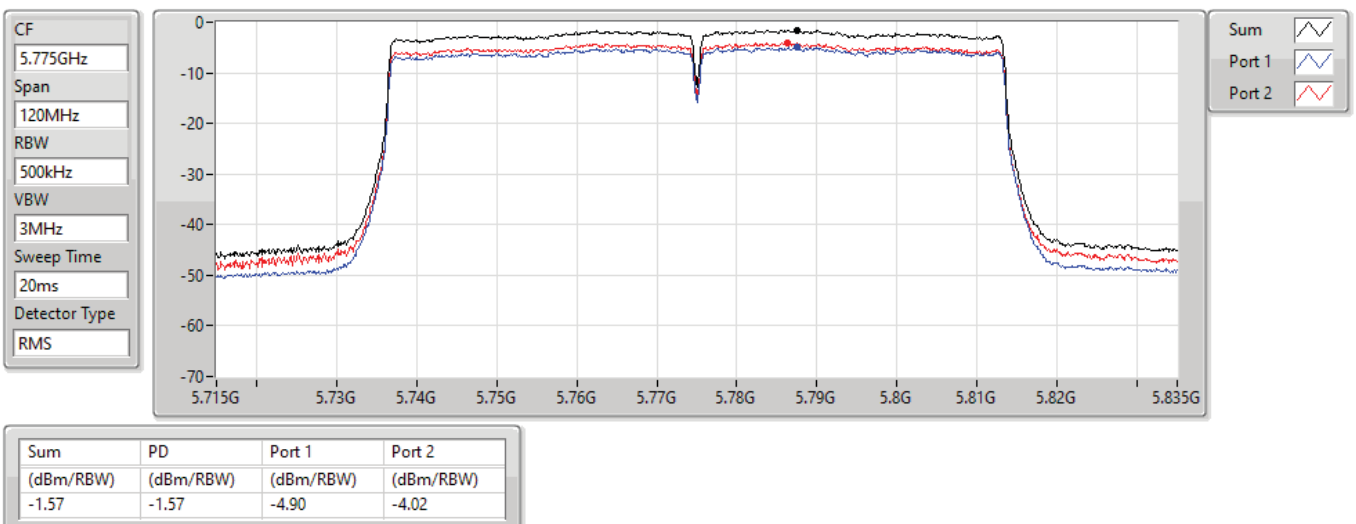


802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz

PSD

30/07/2021

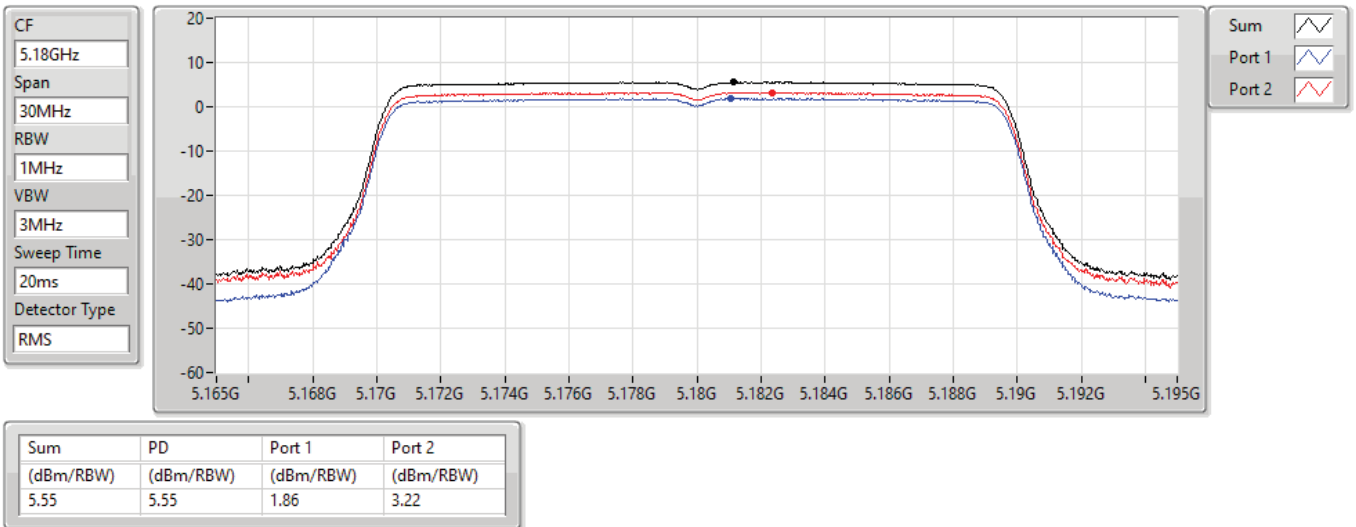


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

28/07/2021

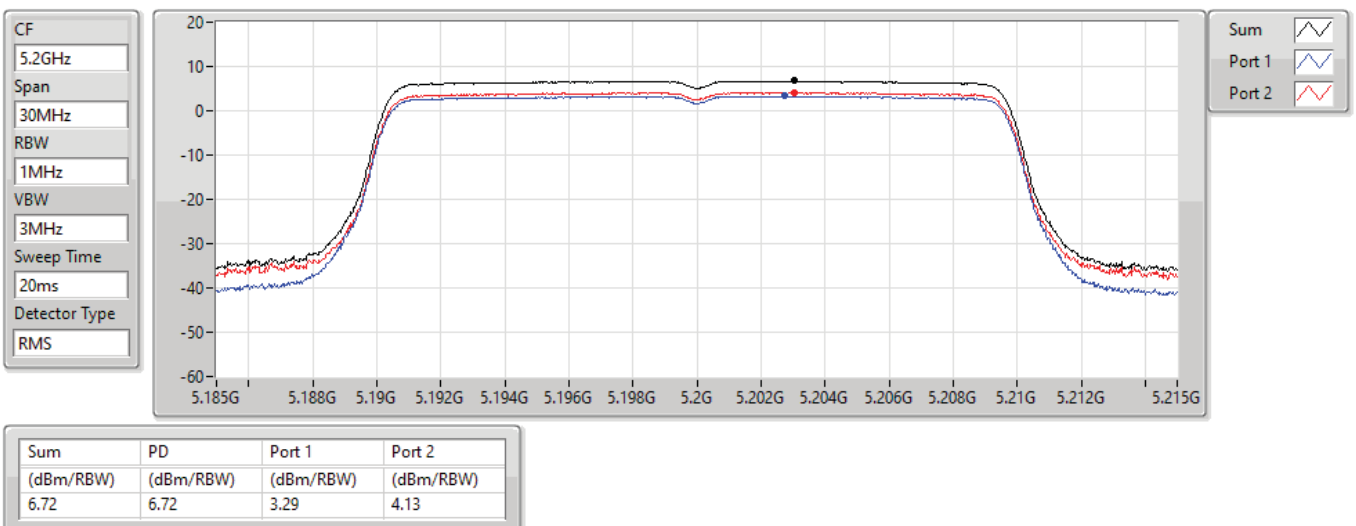


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

28/07/2021

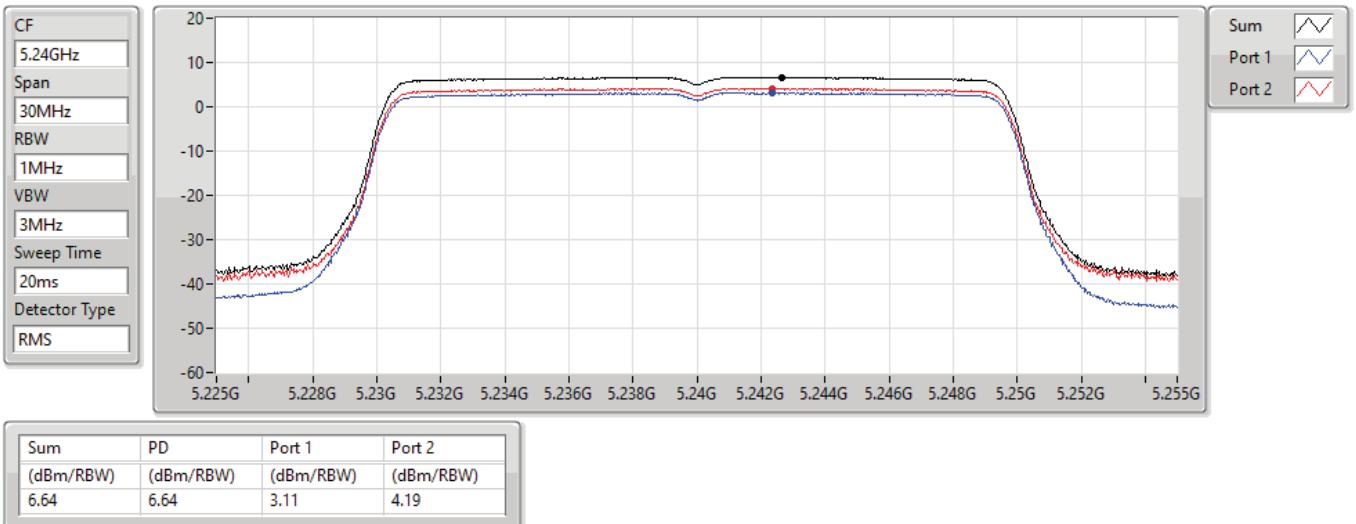


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

28/07/2021

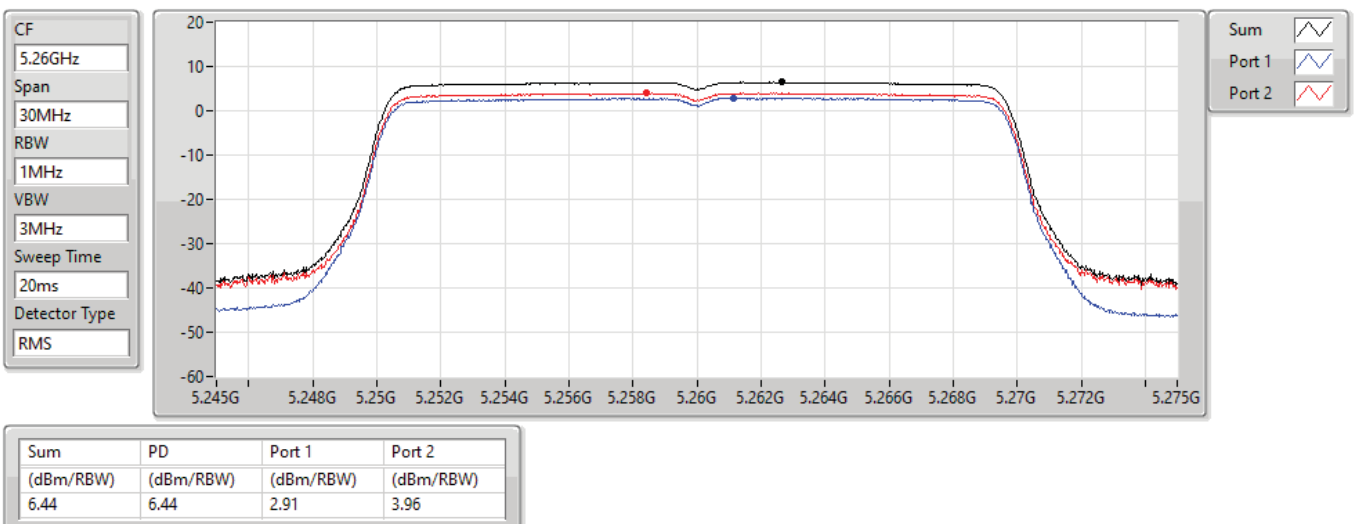


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5260MHz

28/07/2021

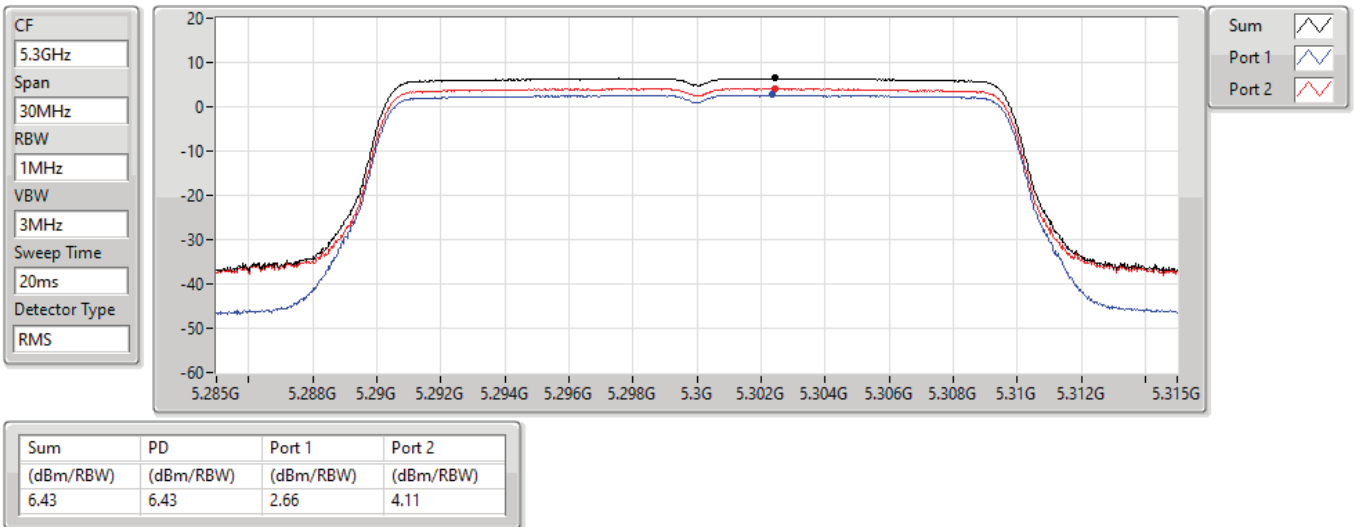


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5300MHz

28/07/2021

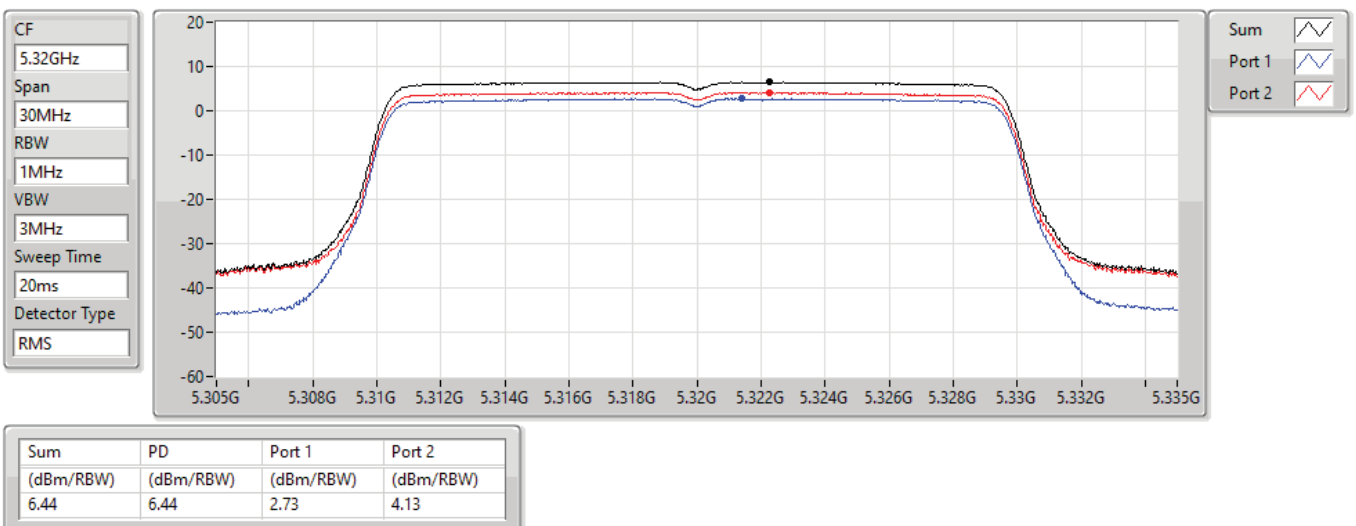


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5320MHz

28/07/2021

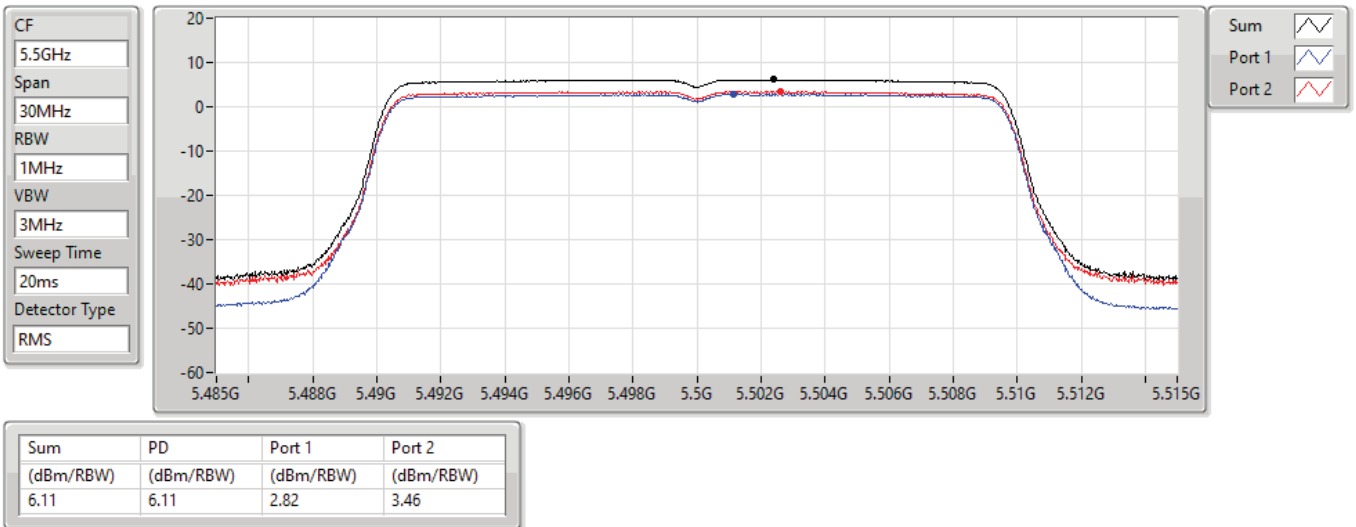


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5500MHz

28/07/2021

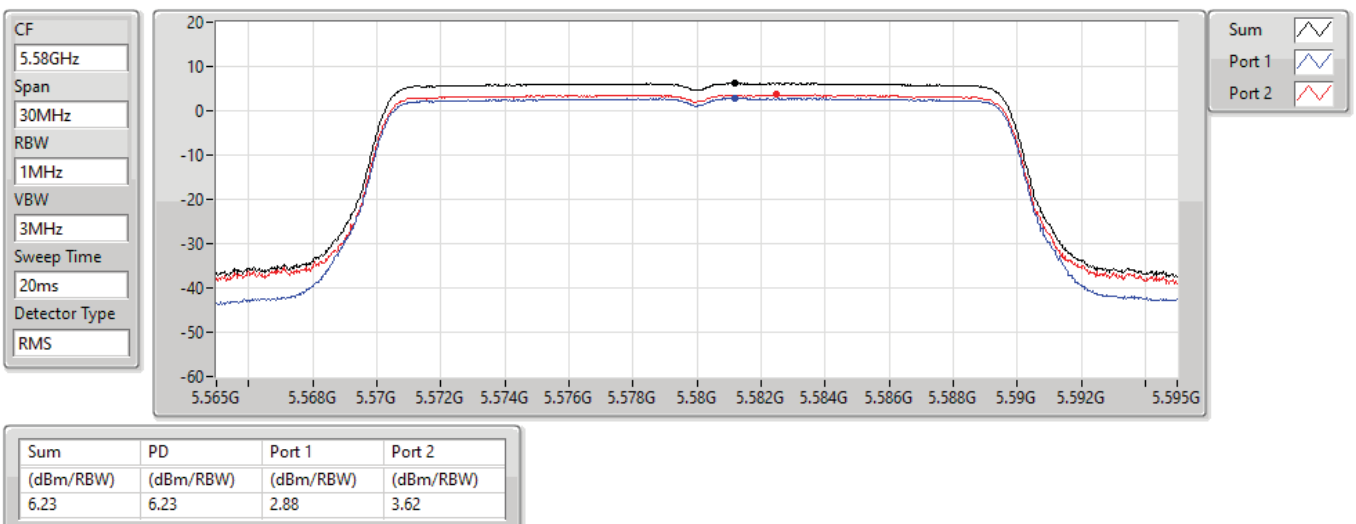


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5580MHz

28/07/2021

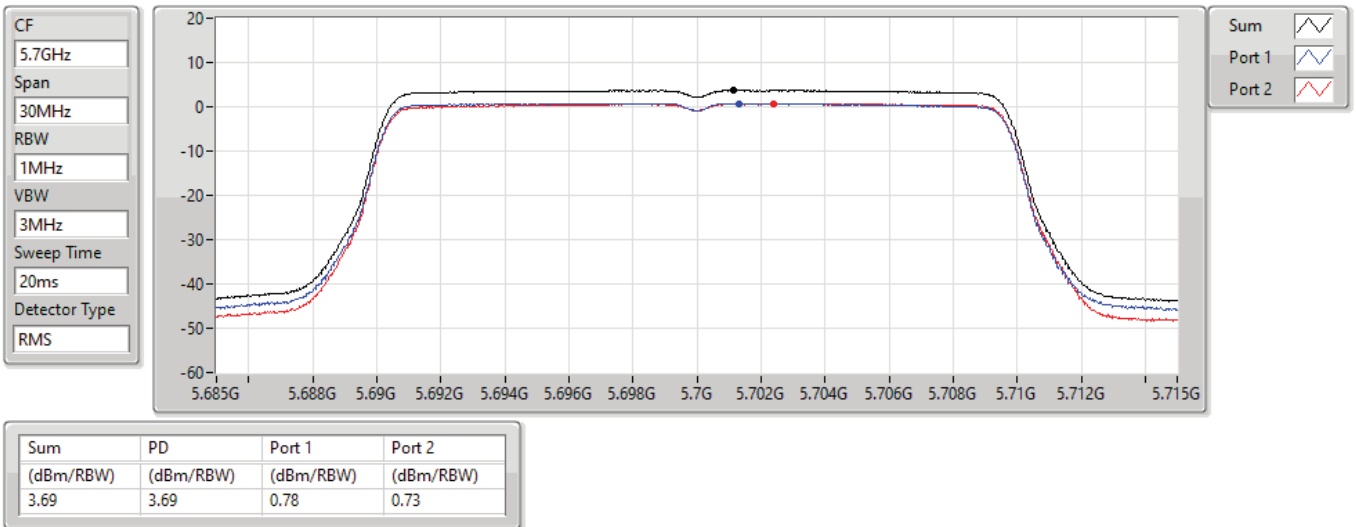


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5700MHz

28/07/2021

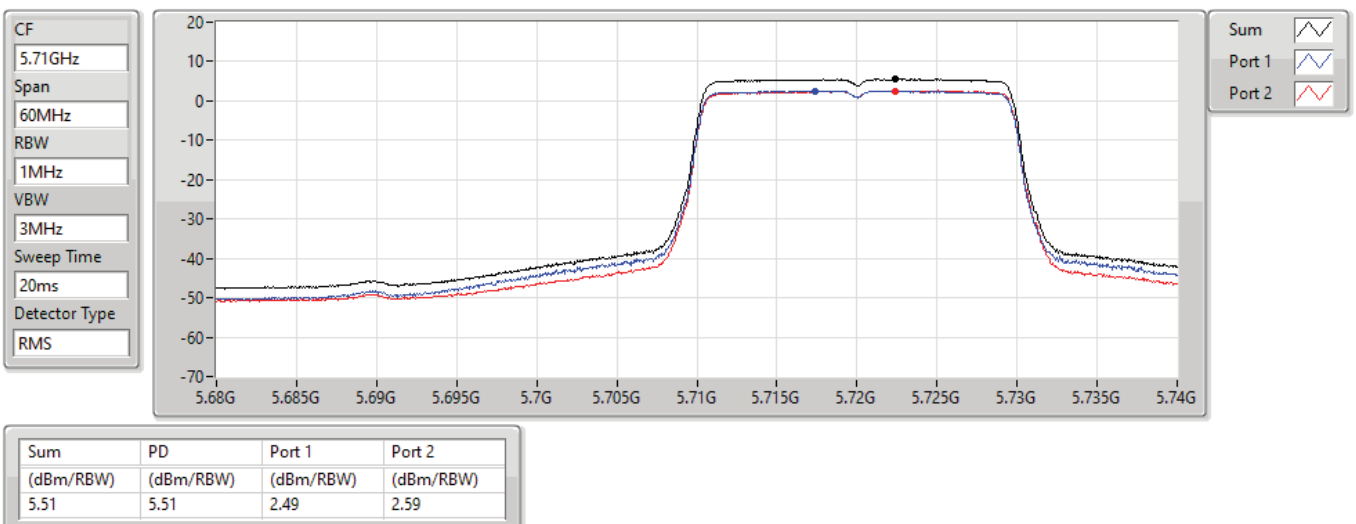


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

28/07/2021

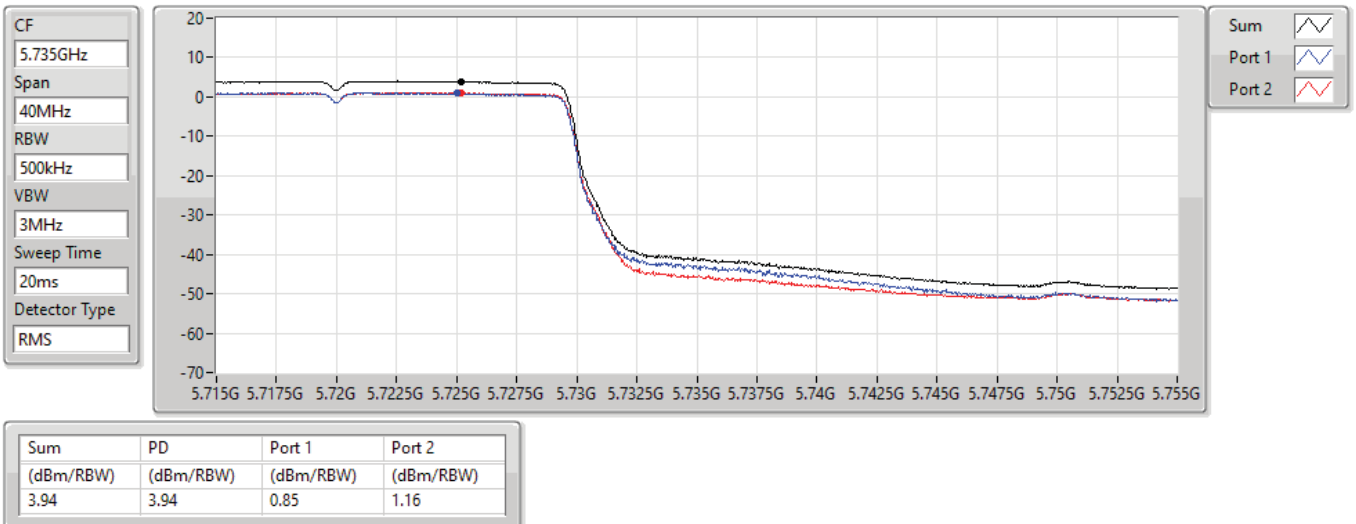


802.11ax HEW20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.725-5.85GHz

PSD

28/07/2021

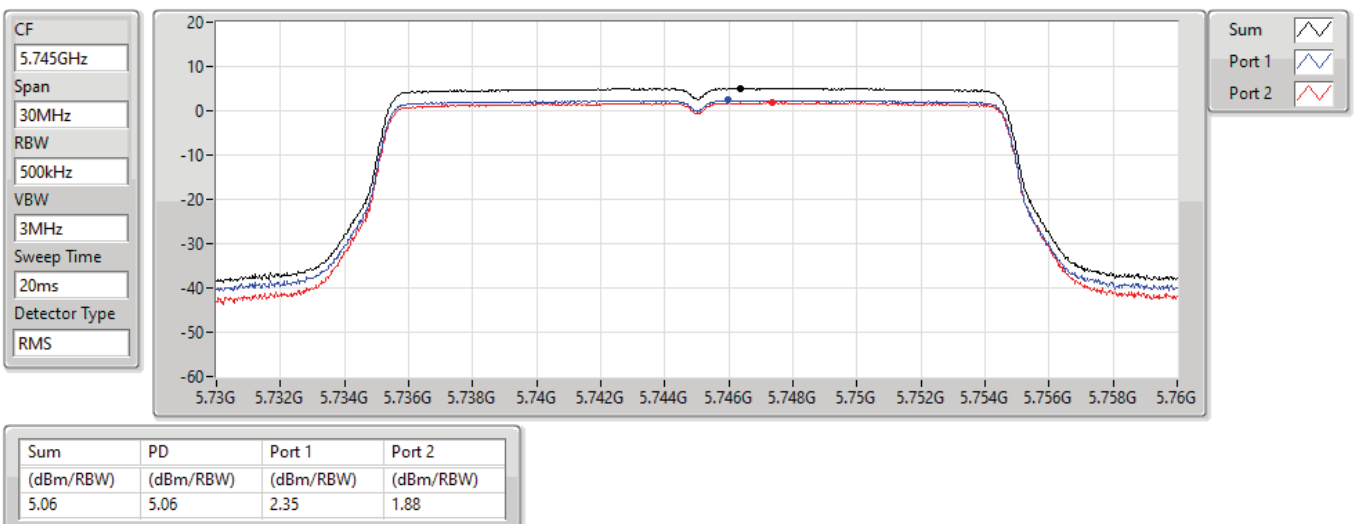


802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz

PSD

28/07/2021

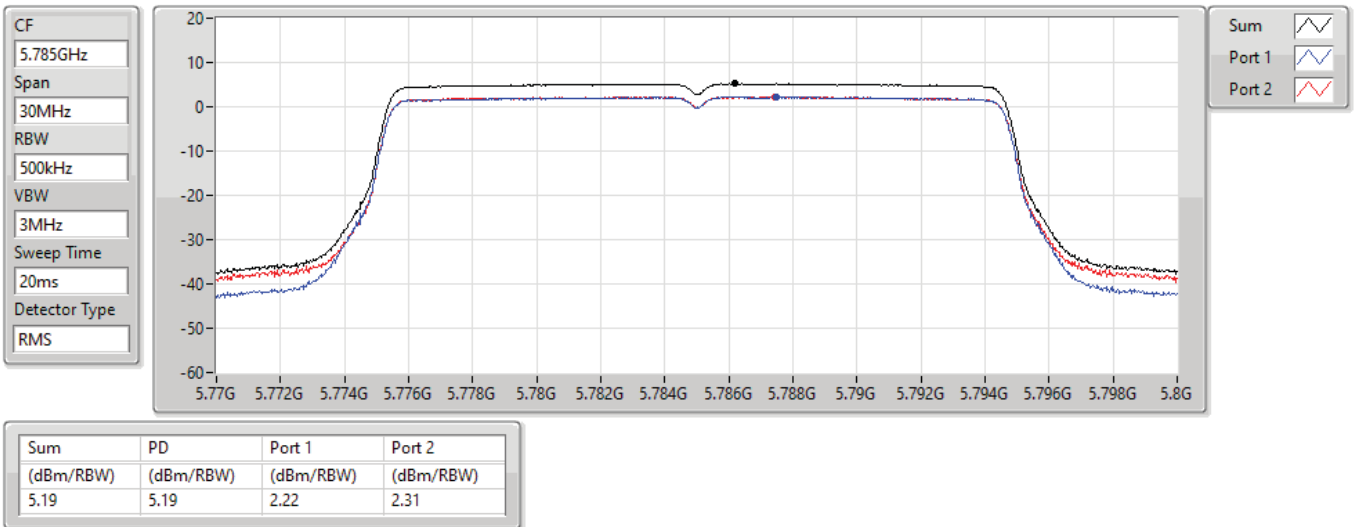


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

28/07/2021

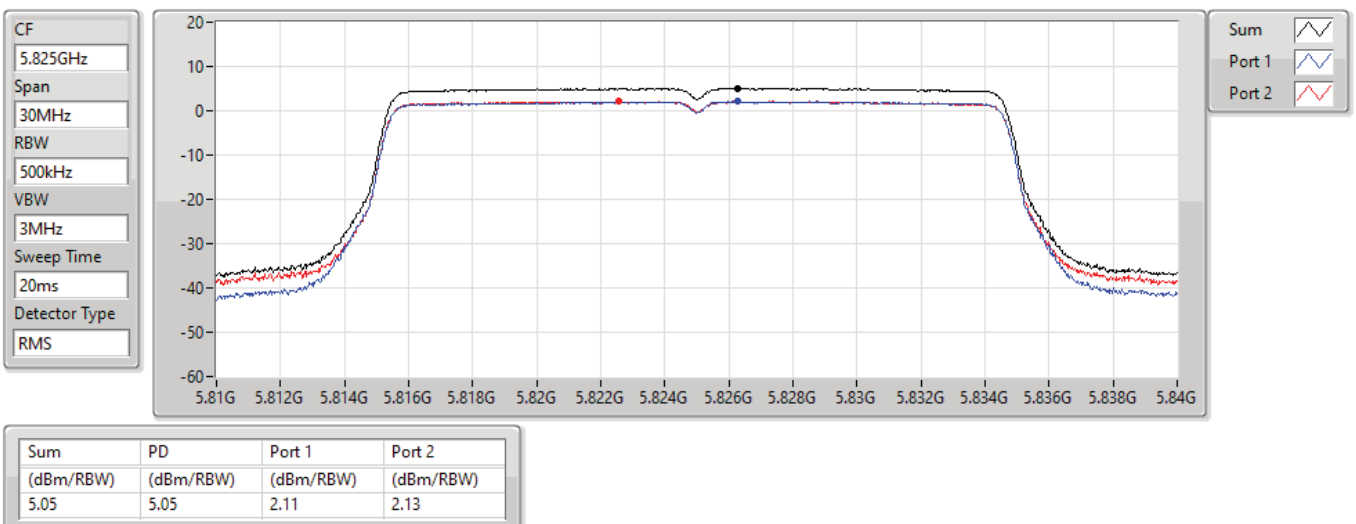


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5825MHz

28/07/2021

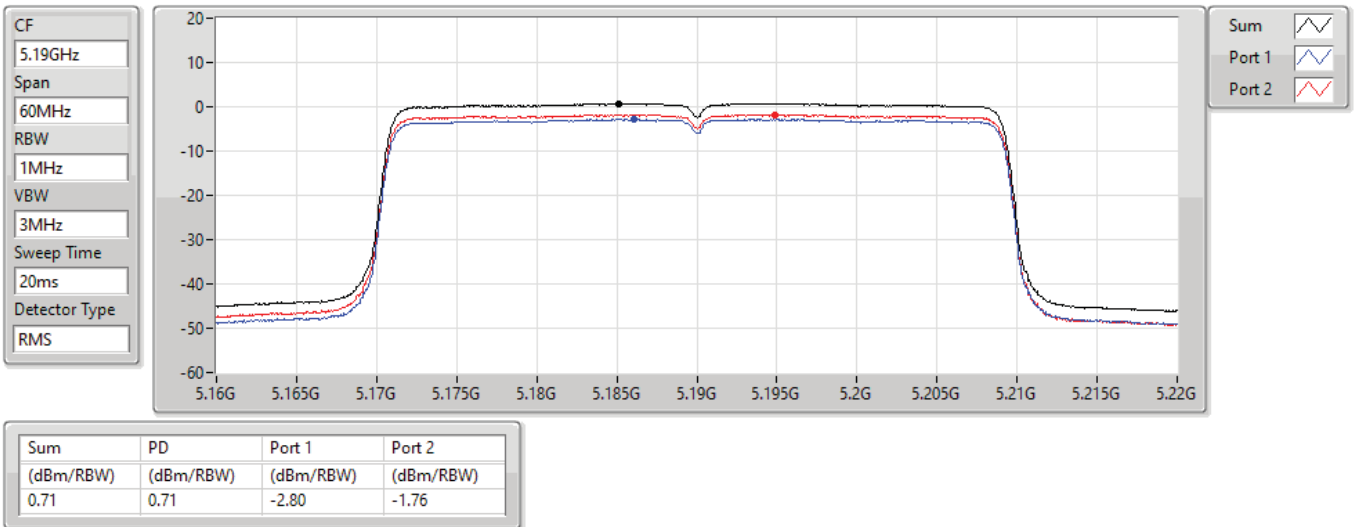


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5190MHz

28/07/2021

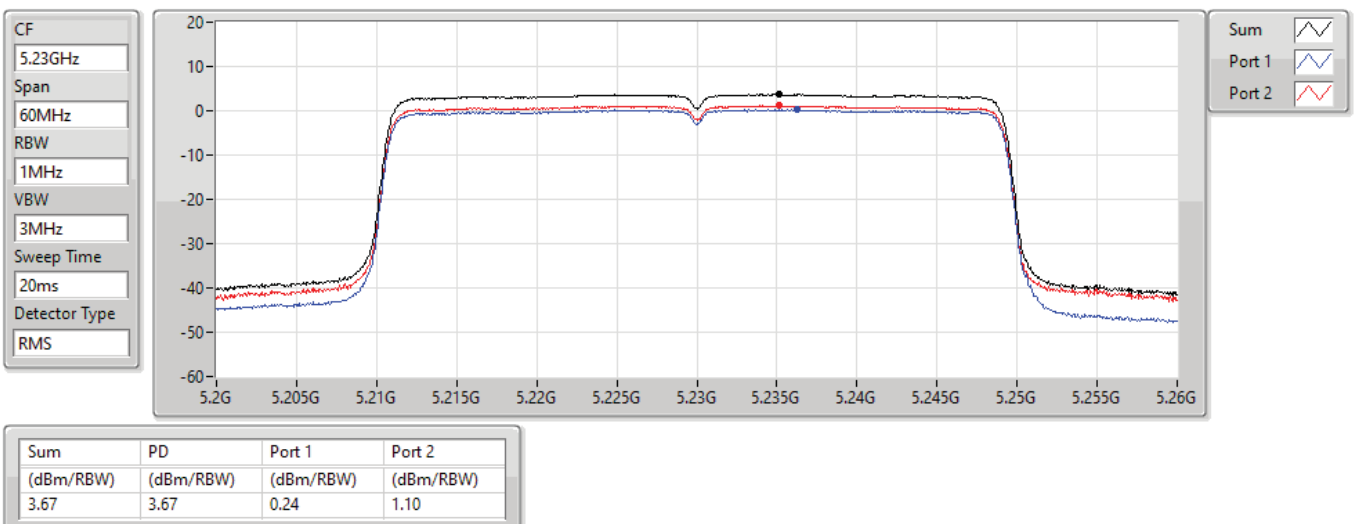


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5230MHz

28/07/2021

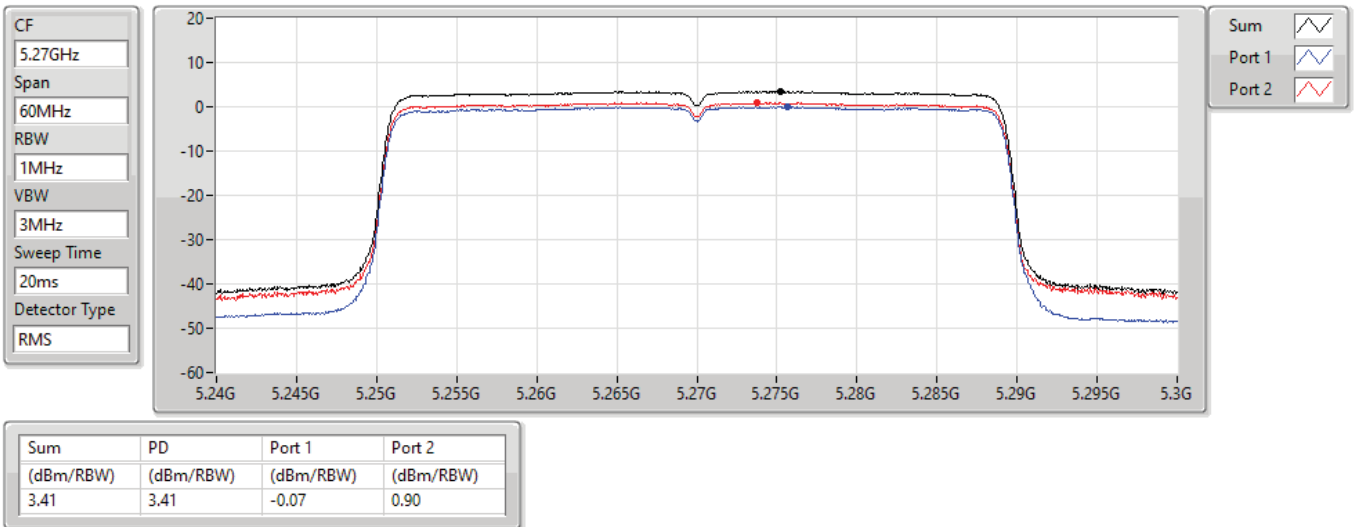


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5270MHz

28/07/2021

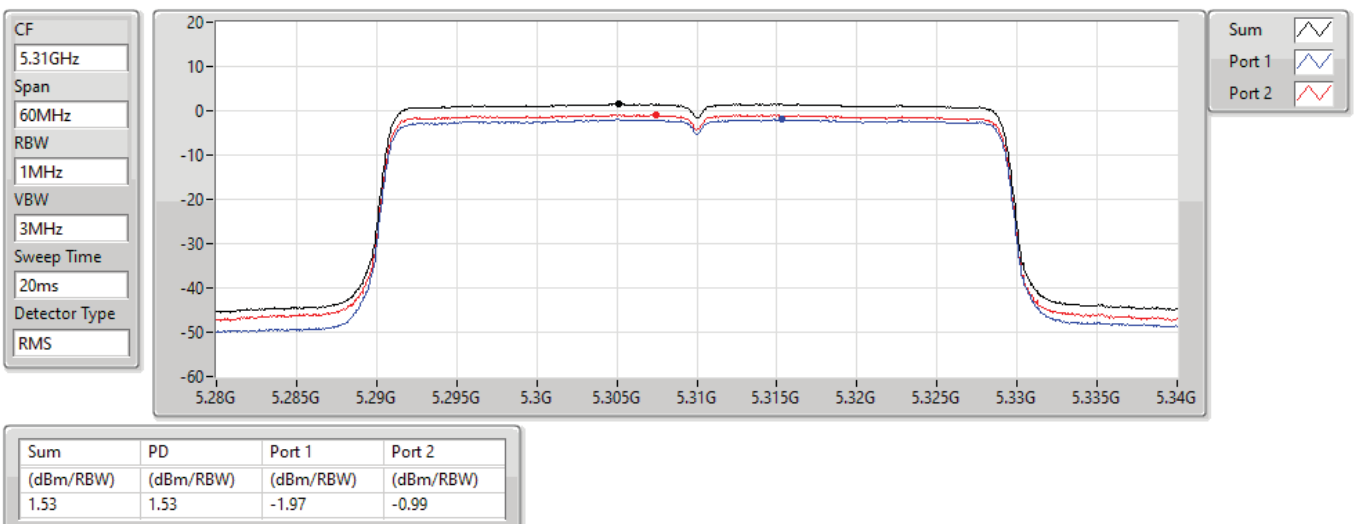


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5310MHz

28/07/2021

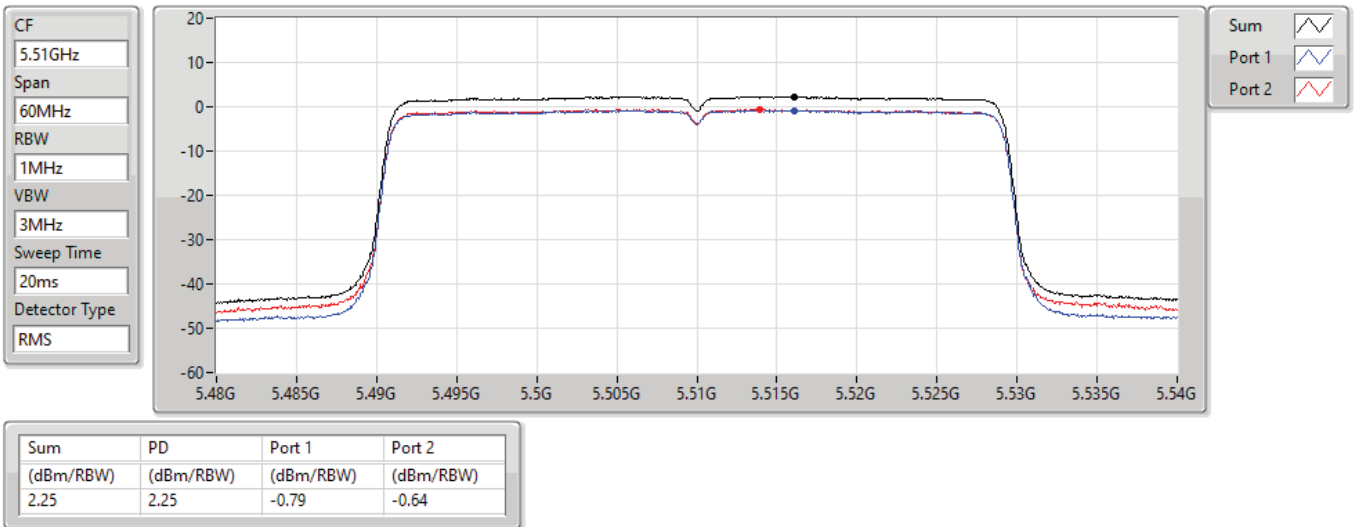


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5510MHz

28/07/2021

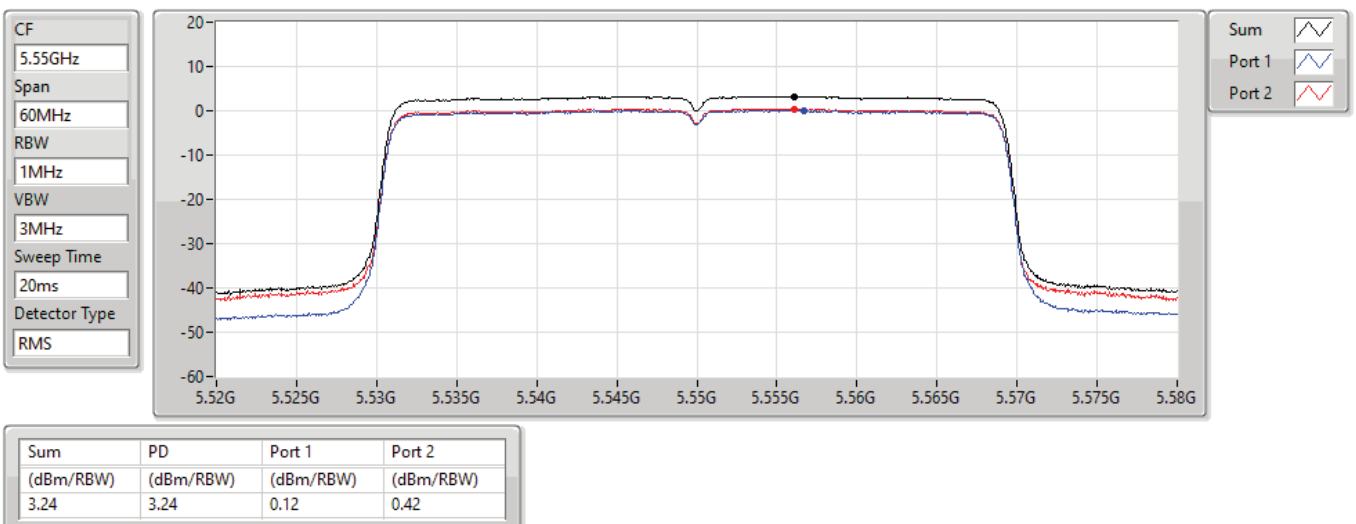


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5550MHz

28/07/2021

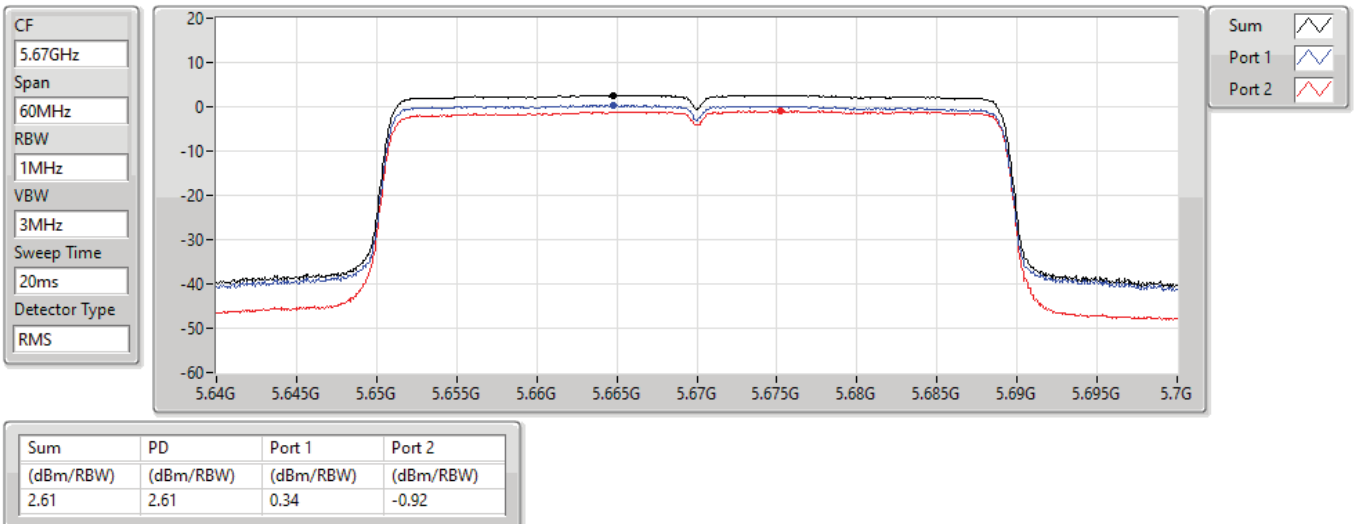


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5670MHz

28/07/2021

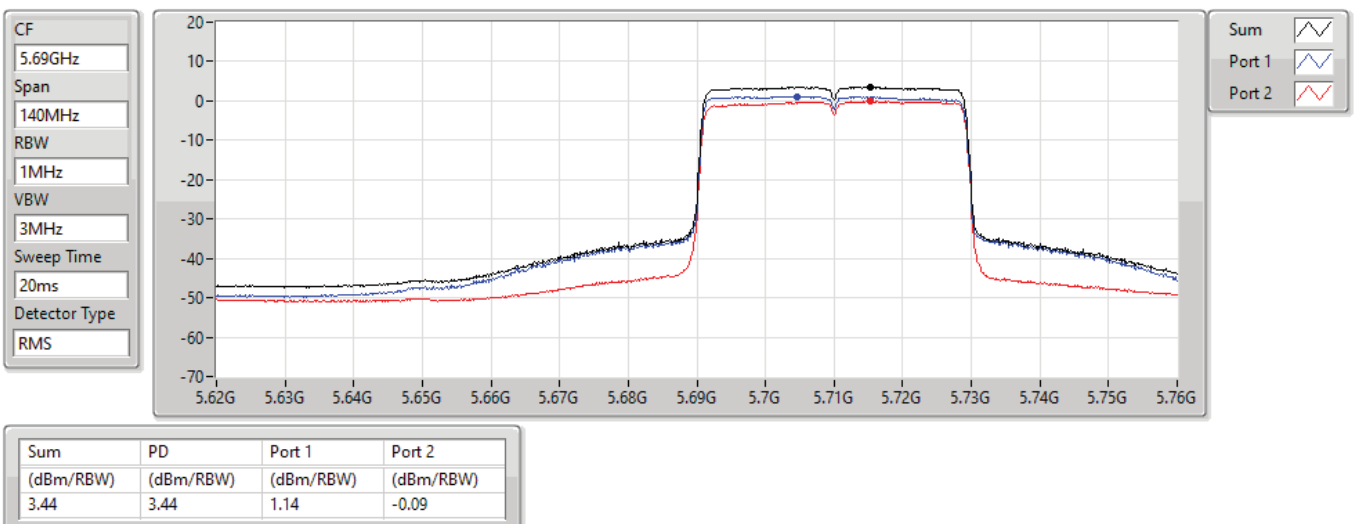


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

28/07/2021

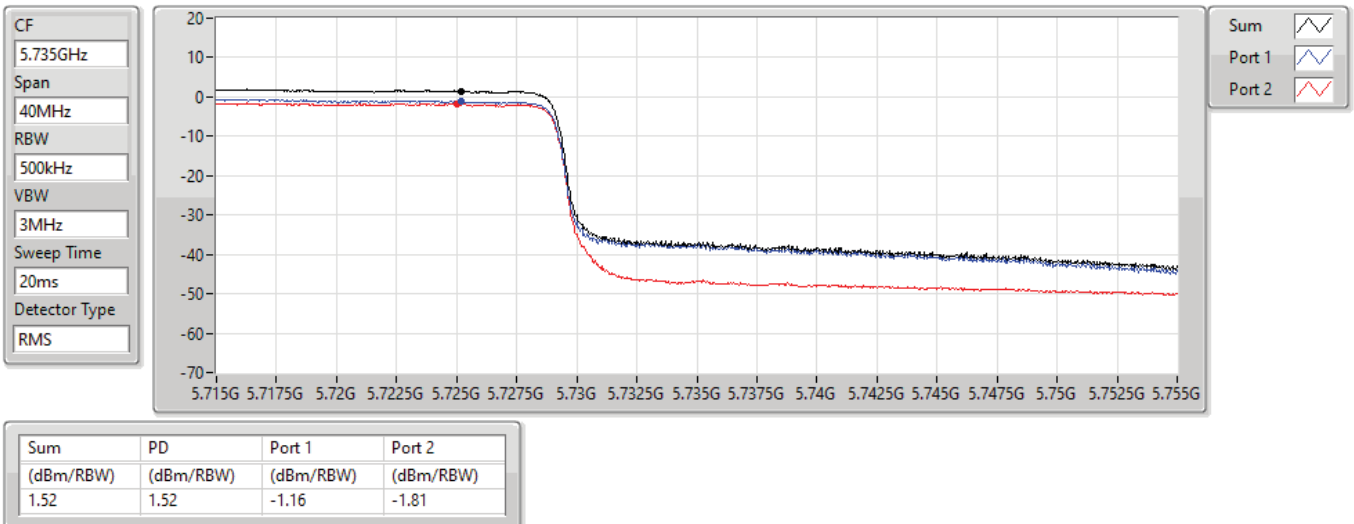


802.11ax HEW40_Nss1,(MCS0)_2TX

5710MHz Straddle 5.725-5.85GHz

PSD

28/07/2021

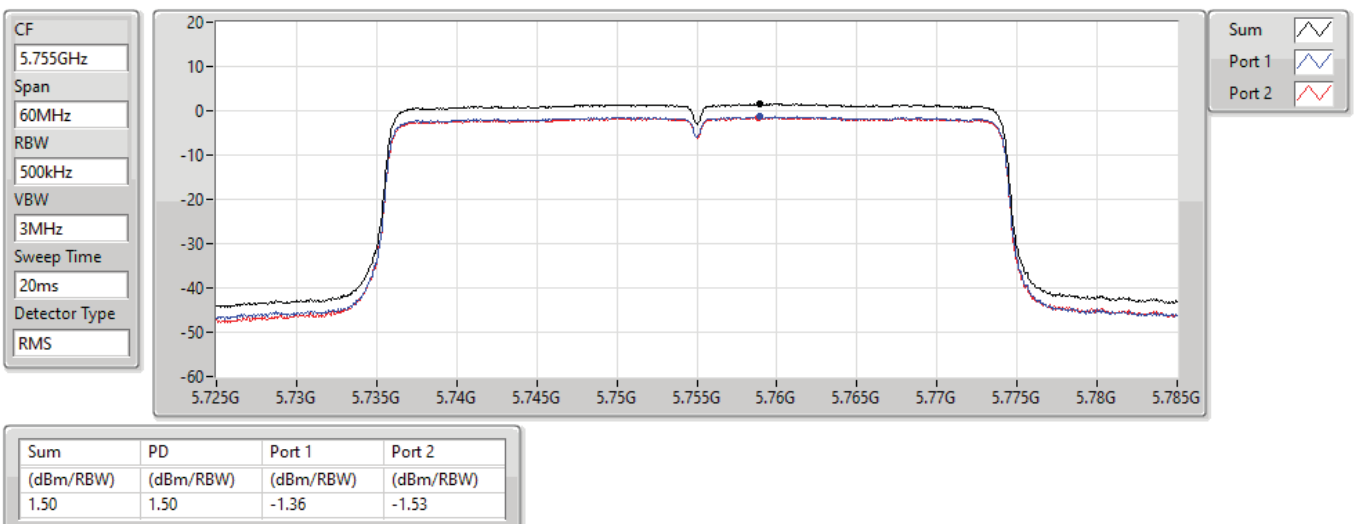


802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz

PSD

28/07/2021

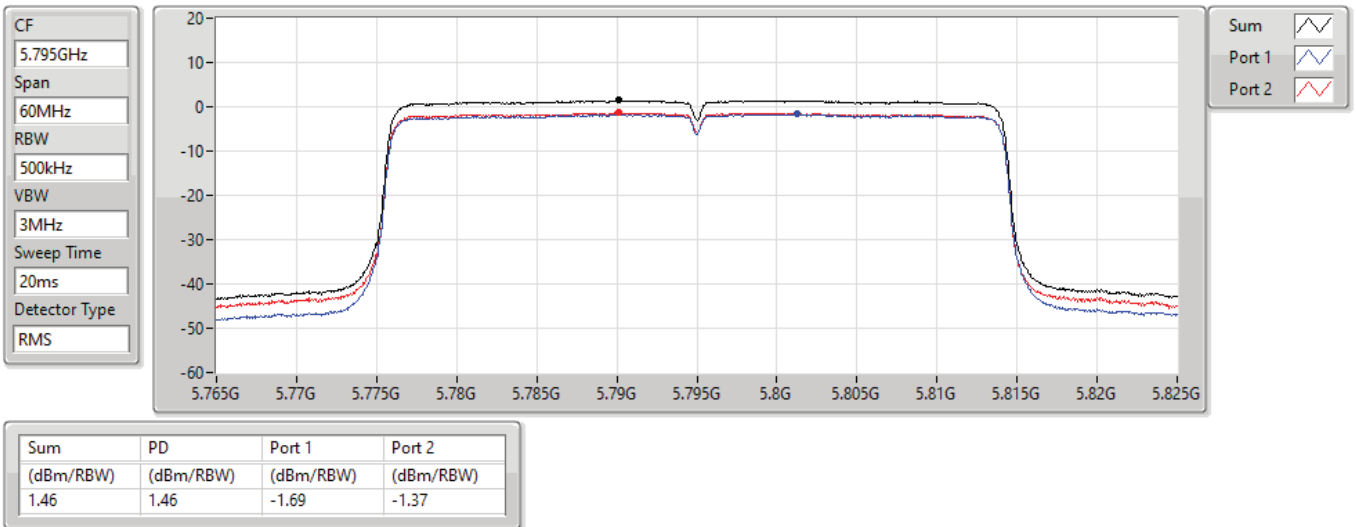


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

28/07/2021

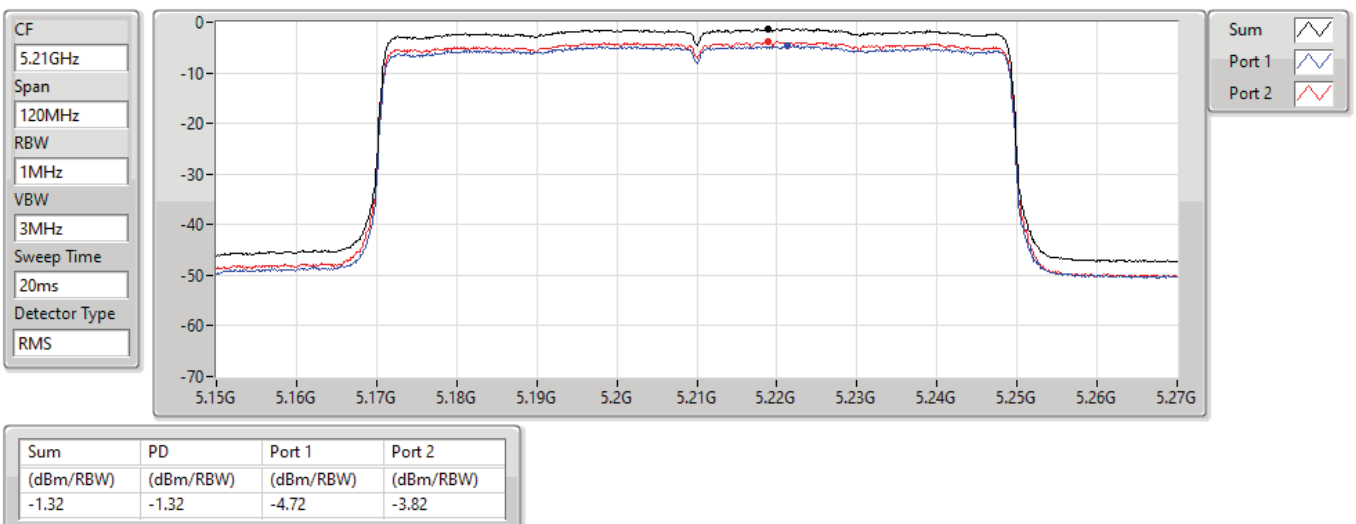


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

28/07/2021

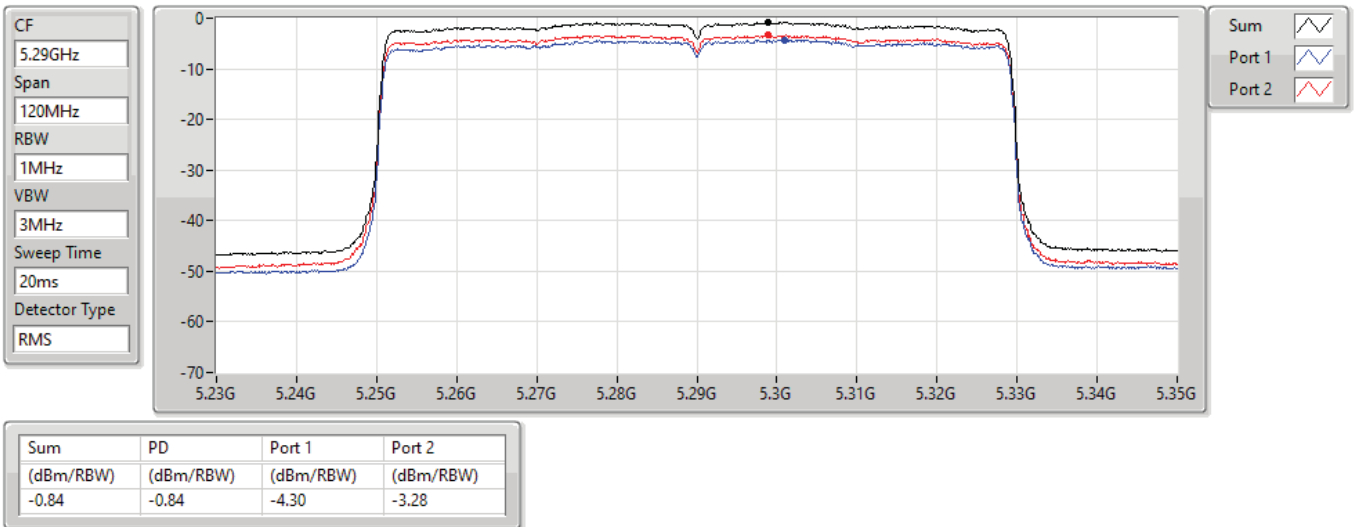


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5290MHz

28/07/2021

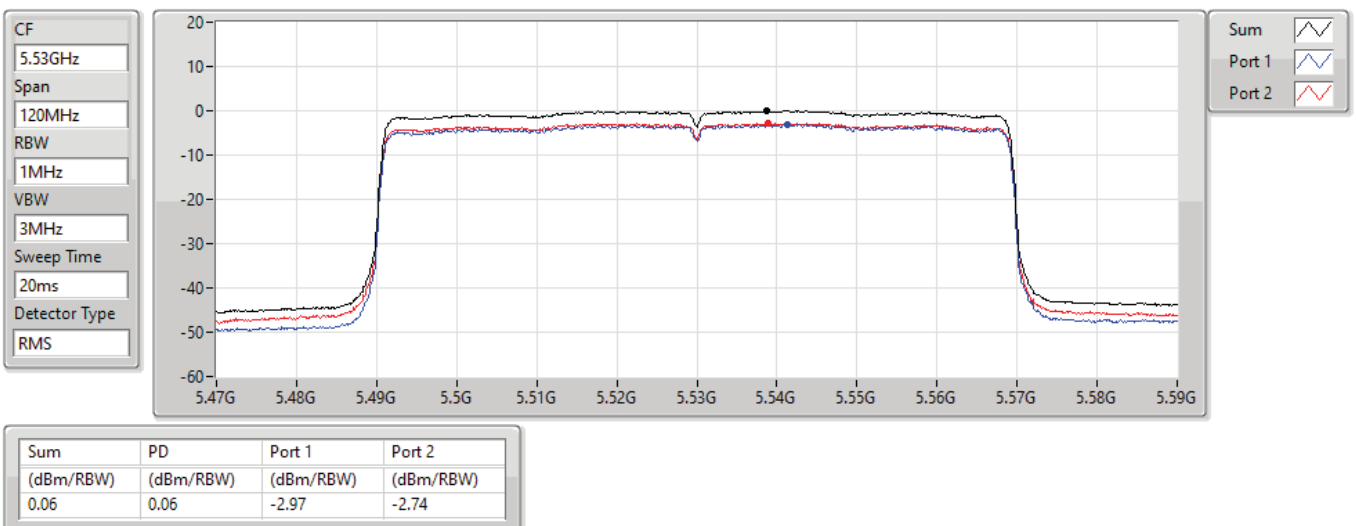


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5530MHz

28/07/2021

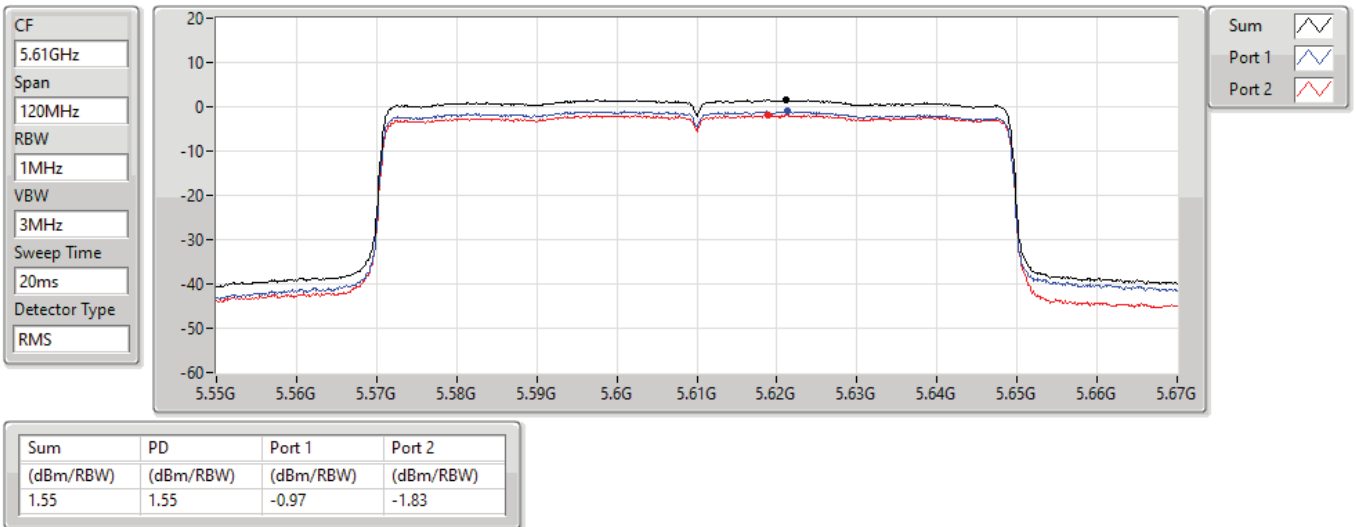


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5610MHz

28/07/2021

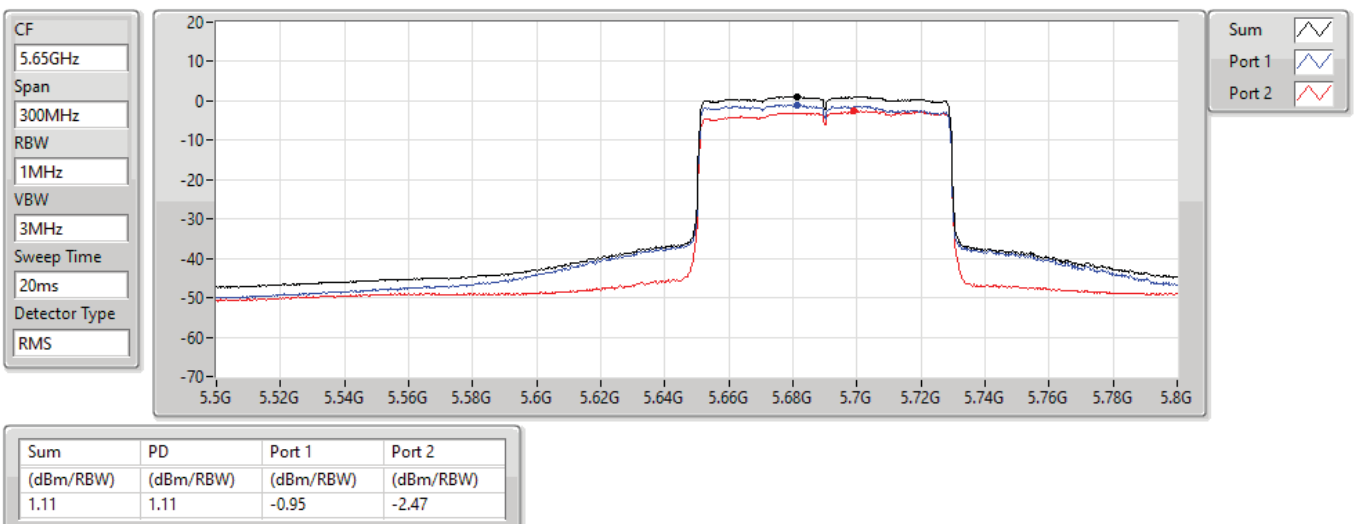


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

28/07/2021

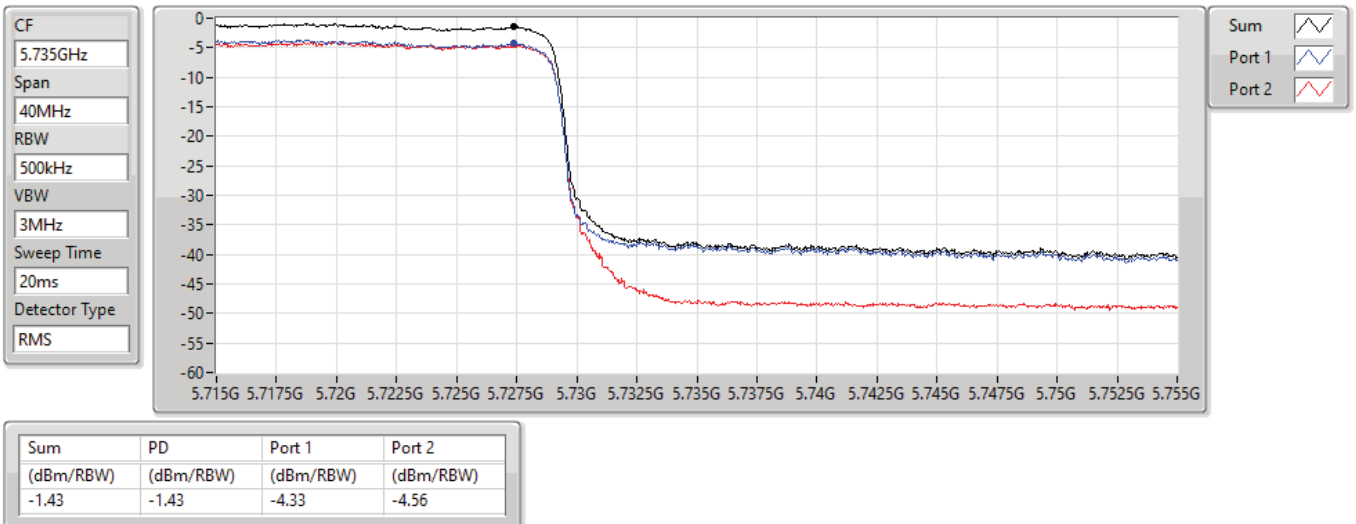


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.725-5.85GHz

28/07/2021

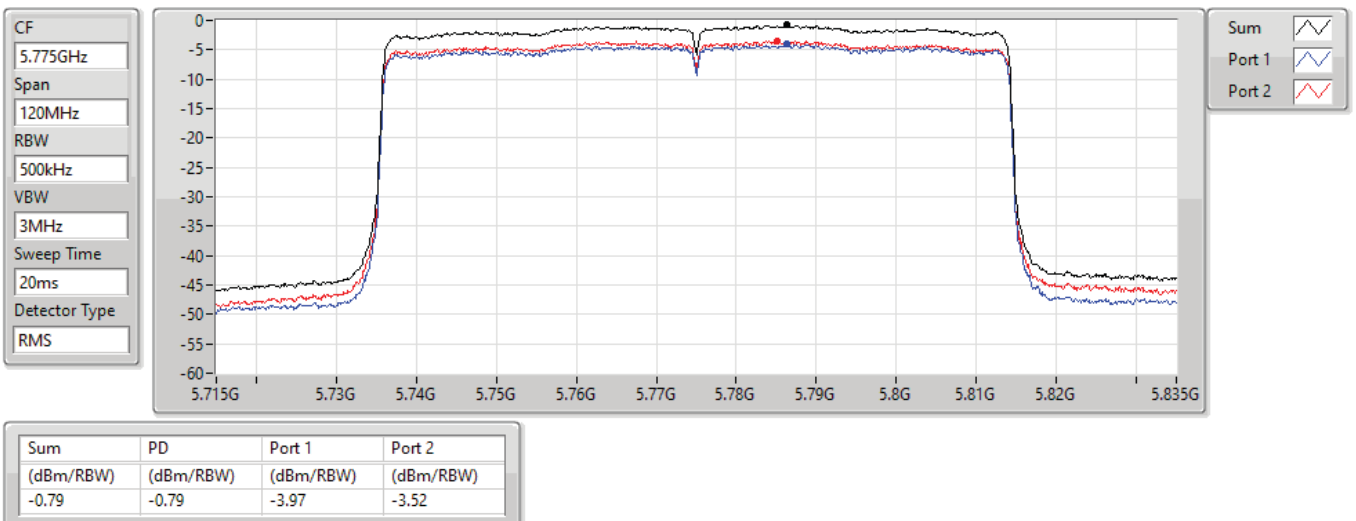


802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

28/07/2021



**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT20_Nss2,(MCS0)_2TX	6.68	10.68
802.11ac VHT40_Nss2,(MCS0)_2TX	2.81	6.81
802.11ac VHT80_Nss2,(MCS0)_2TX	-0.04	3.96
802.11ax HEW20_Nss2,(MCS0)_2TX	6.61	10.61
802.11ax HEW40_Nss2,(MCS0)_2TX	2.88	6.88
802.11ax HEW80_Nss2,(MCS0)_2TX	0.19	4.19
5.25-5.35GHz	-	-
802.11ac VHT40_Nss2,(MCS0)_2TX	3.34	7.34
802.11ac VHT80_Nss2,(MCS0)_2TX	0.63	4.63
802.11ax HEW40_Nss2,(MCS0)_2TX	3.50	7.50
802.11ax HEW80_Nss2,(MCS0)_2TX	0.61	4.61
5.47-5.725GHz	-	-
802.11ac VHT20_Nss2,(MCS0)_2TX	4.05	8.05
802.11ac VHT40_Nss2,(MCS0)_2TX	3.05	7.05
802.11ac VHT80_Nss2,(MCS0)_2TX	-0.05	3.95
802.11ax HEW20_Nss2,(MCS0)_2TX	4.25	8.25
802.11ax HEW40_Nss2,(MCS0)_2TX	3.18	7.18
802.11ax HEW80_Nss2,(MCS0)_2TX	0.23	4.23

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	3.06	4.32	6.68	17.00	10.68	23.00
5700MHz	Pass	4.00	1.43	0.90	4.05	11.00	8.05	17.00
802.11ac VHT40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	-0.84	0.46	2.81	17.00	6.81	23.00
5310MHz	Pass	4.00	-0.27	1.03	3.34	11.00	7.34	17.00
5510MHz	Pass	4.00	-0.10	0.27	2.98	11.00	6.98	17.00
5670MHz	Pass	4.00	0.75	-0.64	3.05	11.00	7.05	17.00
802.11ac VHT80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	-3.16	-2.58	-0.04	17.00	3.96	23.00
5290MHz	Pass	4.00	-2.79	-1.65	0.63	11.00	4.63	17.00
5530MHz	Pass	4.00	-2.98	-2.59	-0.05	11.00	3.95	17.00
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	2.95	4.26	6.61	17.00	10.61	23.00
5700MHz	Pass	4.00	1.46	1.16	4.25	11.00	8.25	17.00
802.11ax HEW40_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	-0.78	0.55	2.88	17.00	6.88	23.00
5310MHz	Pass	4.00	-0.15	1.10	3.50	11.00	7.50	17.00
5510MHz	Pass	4.00	-0.05	0.13	3.03	11.00	7.03	17.00
5670MHz	Pass	4.00	0.94	-0.48	3.18	11.00	7.18	17.00
802.11ax HEW80_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	-3.11	-2.50	0.19	17.00	4.19	23.00
5290MHz	Pass	4.00	-2.90	-1.85	0.61	11.00	4.61	17.00
5530MHz	Pass	4.00	-3.04	-2.48	0.23	11.00	4.23	17.00

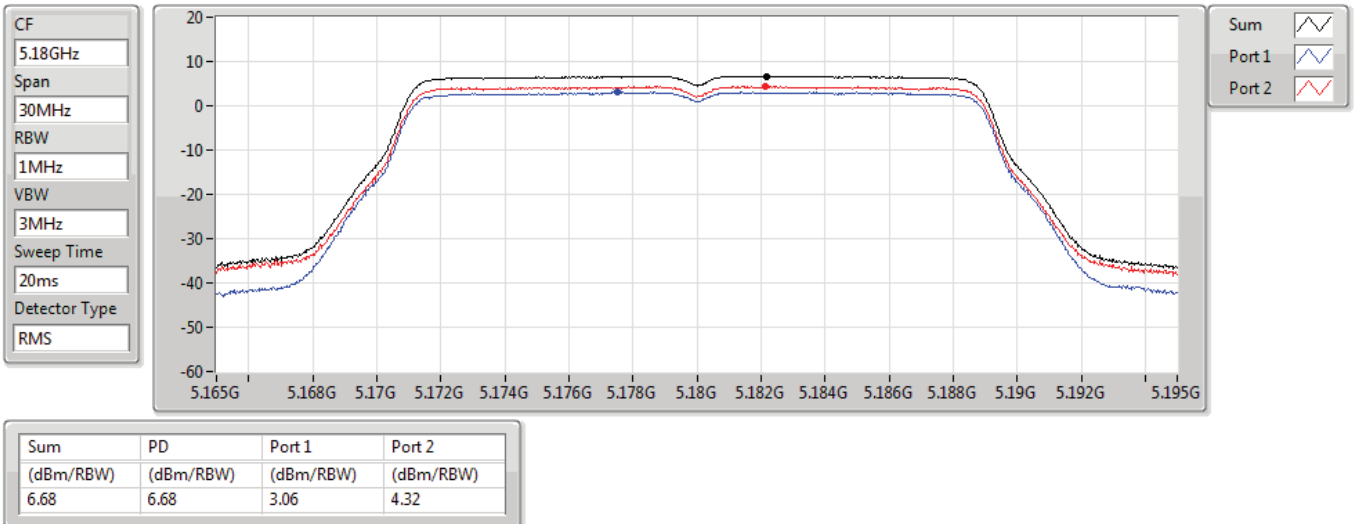
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ac VHT20_Nss2,(MCS0)_2TX

PSD

5180MHz

02/08/2021

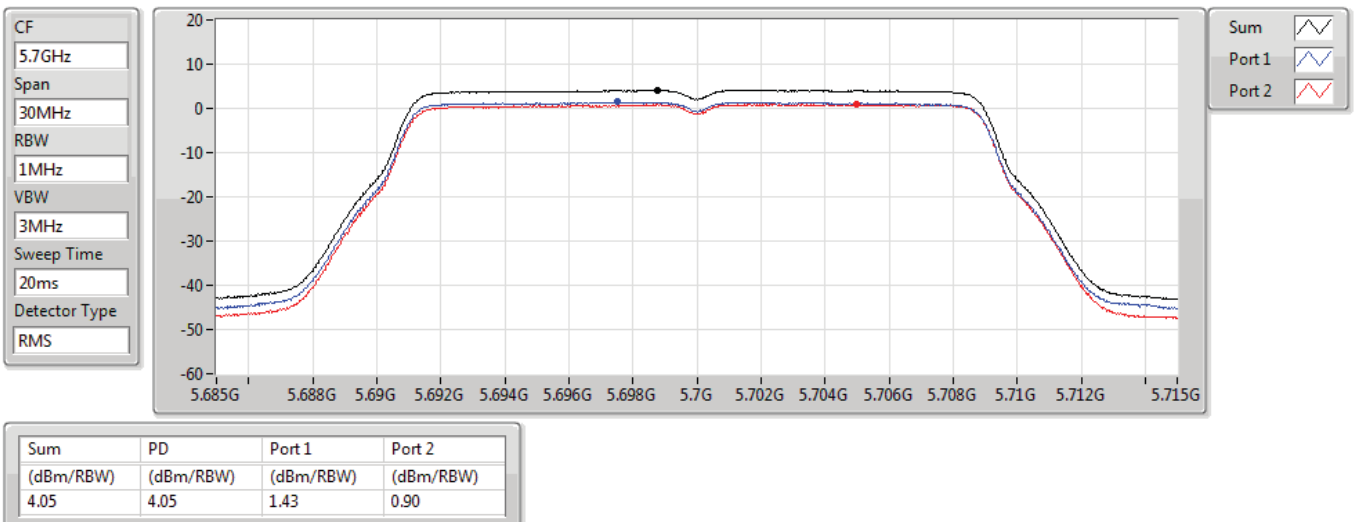


802.11ac VHT20_Nss2,(MCS0)_2TX

PSD

5700MHz

02/08/2021

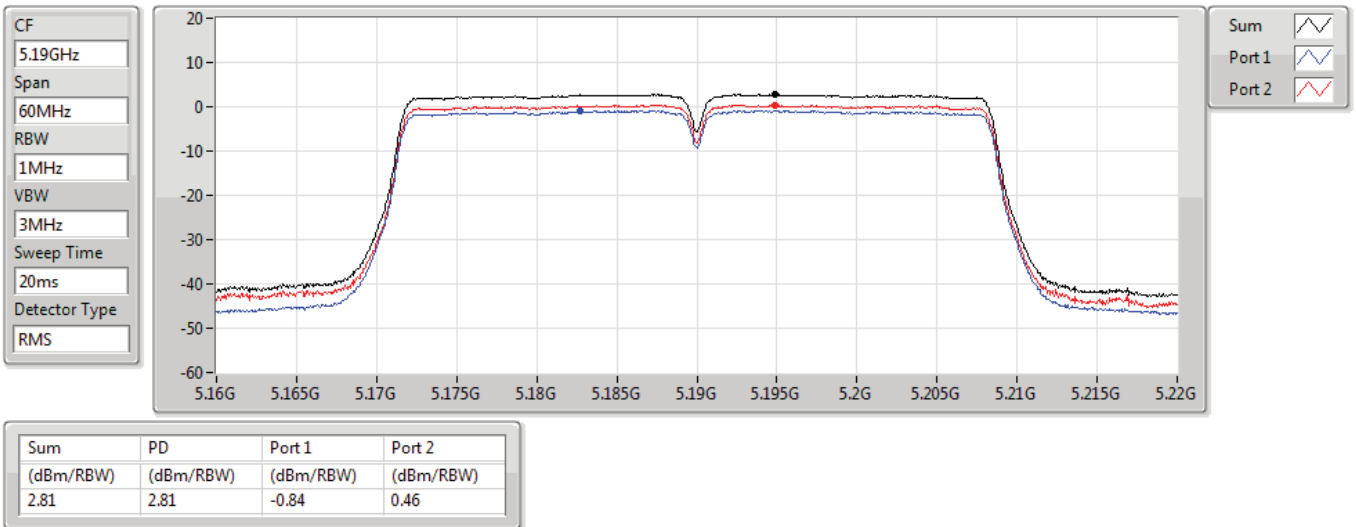


802.11ac VHT40_Nss2,(MCS0_2TX

PSD

5190MHz

02/08/2021

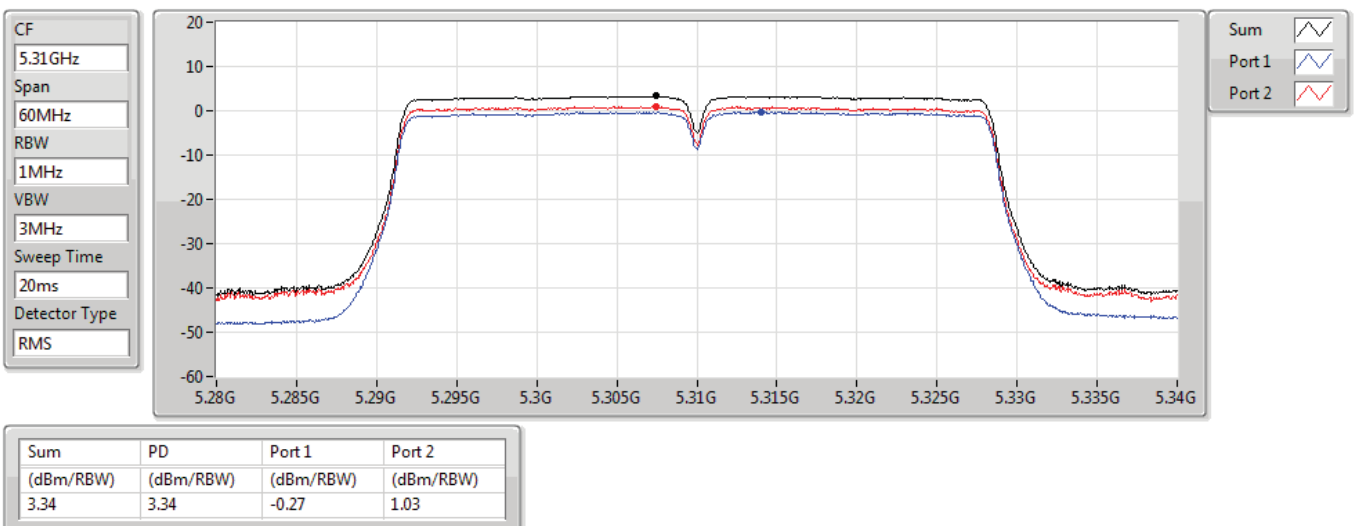


802.11ac VHT40_Nss2,(MCS0_2TX

PSD

5310MHz

02/08/2021

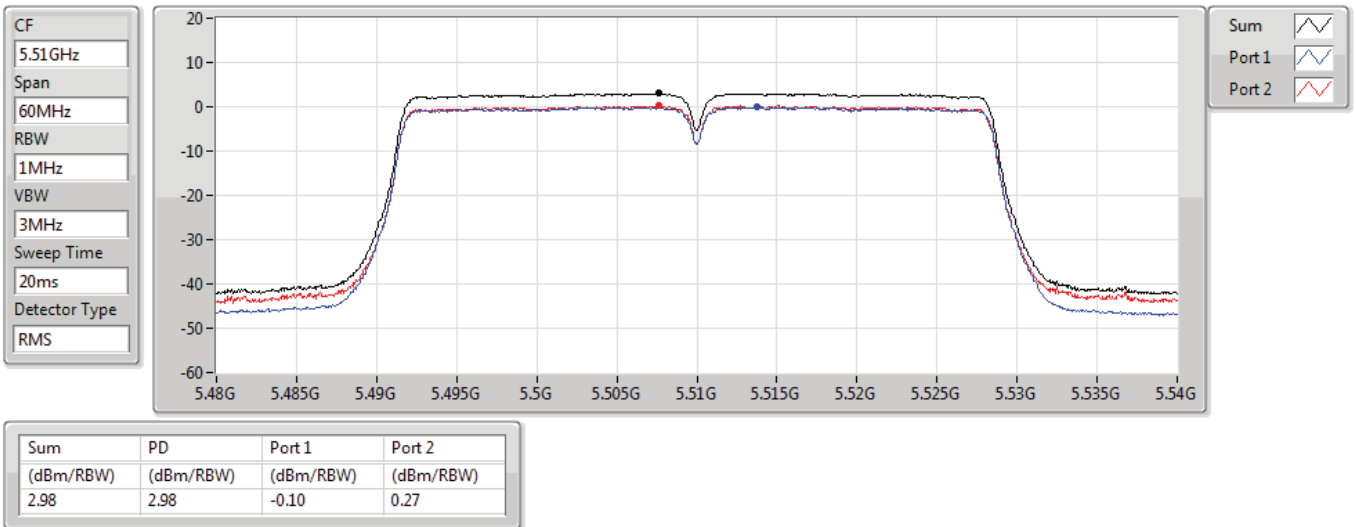


802.11ac VHT40_Nss2,(MCS0_2TX

PSD

5510MHz

02/08/2021

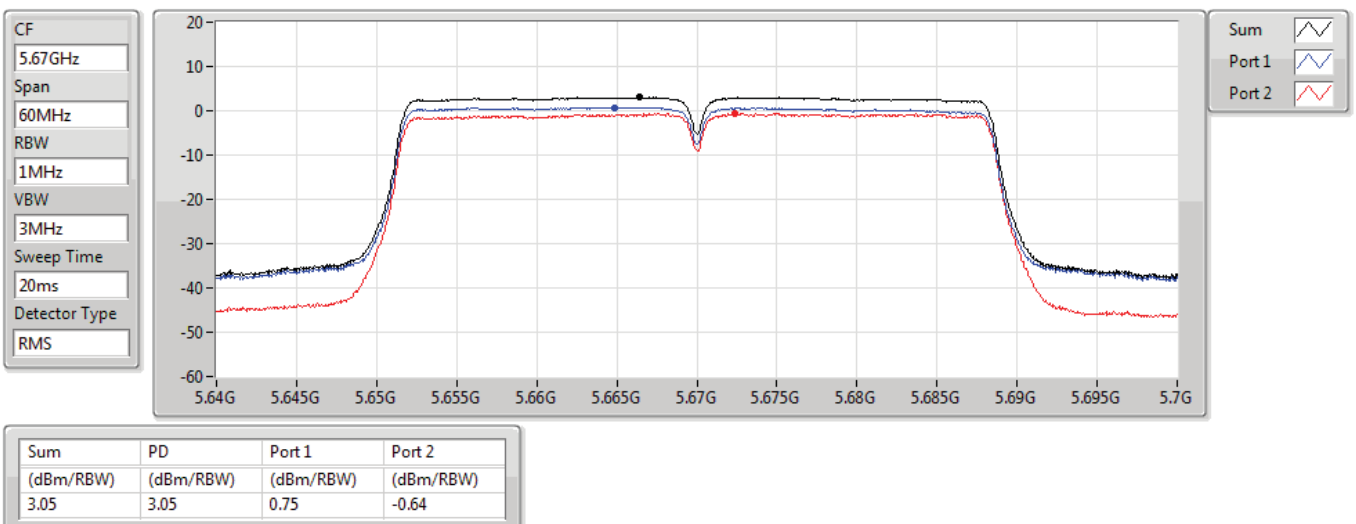


802.11ac VHT40_Nss2,(MCS0_2TX

PSD

5670MHz

02/08/2021

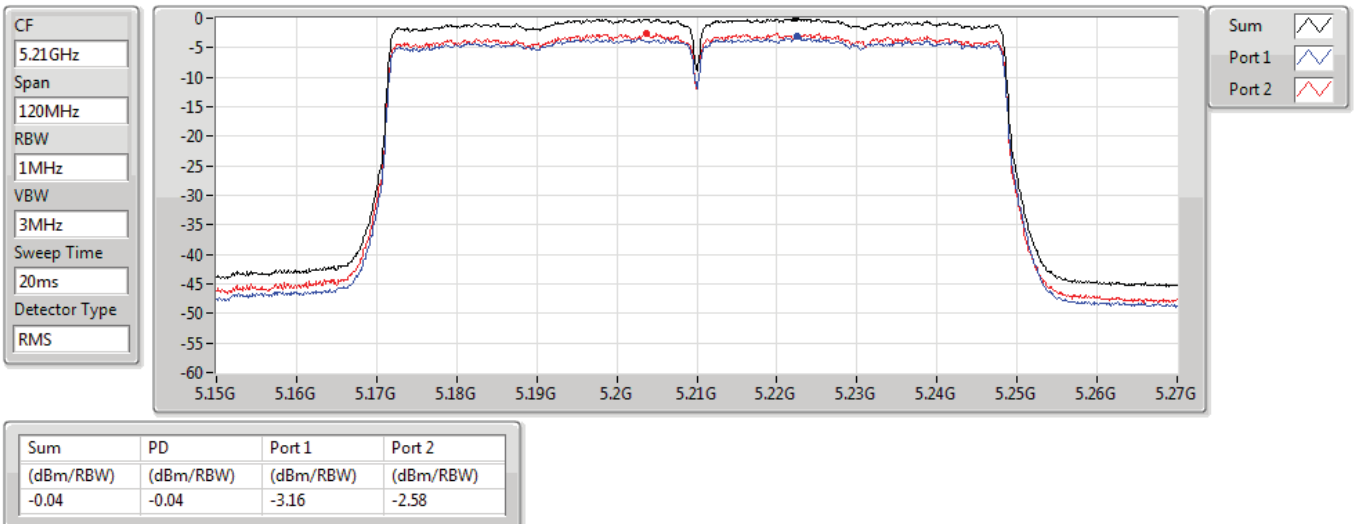


802.11ac VHT80_Nss2,(MCS0_2TX

PSD

5210MHz

02/08/2021

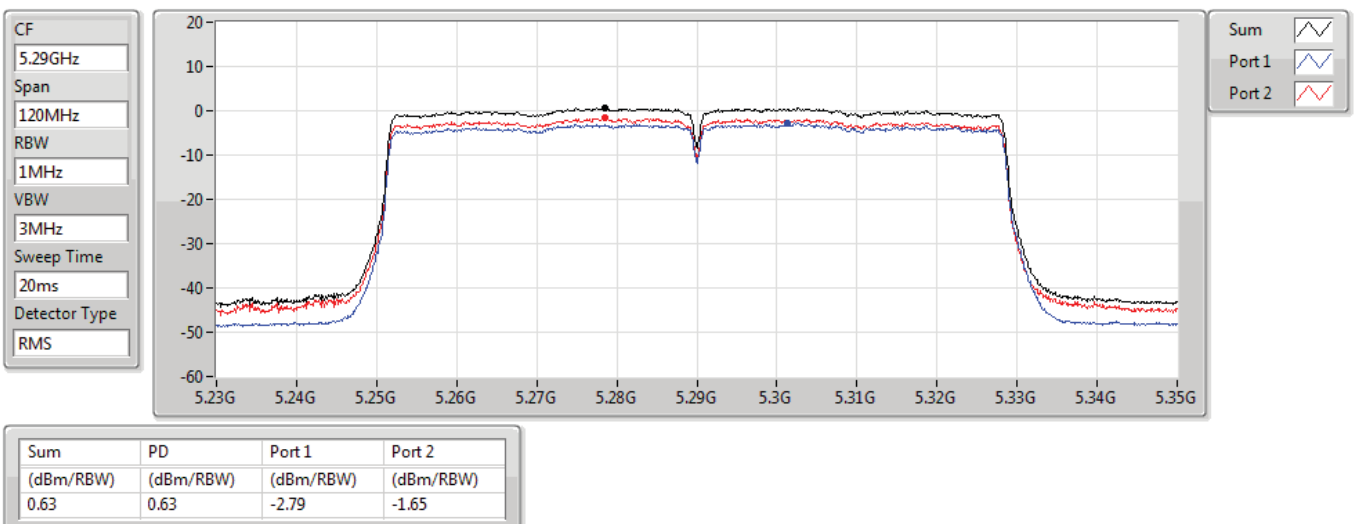


802.11ac VHT80_Nss2,(MCS0_2TX

PSD

5290MHz

02/08/2021

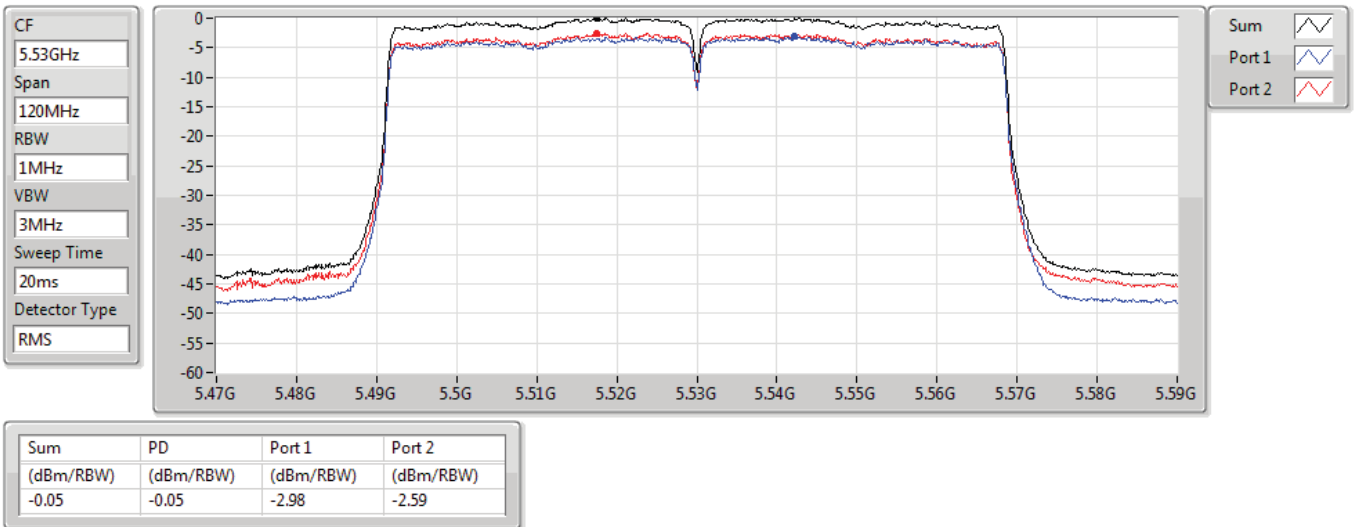


802.11ac VHT80_Nss2,(MCS0_2TX

PSD

5530MHz

02/08/2021

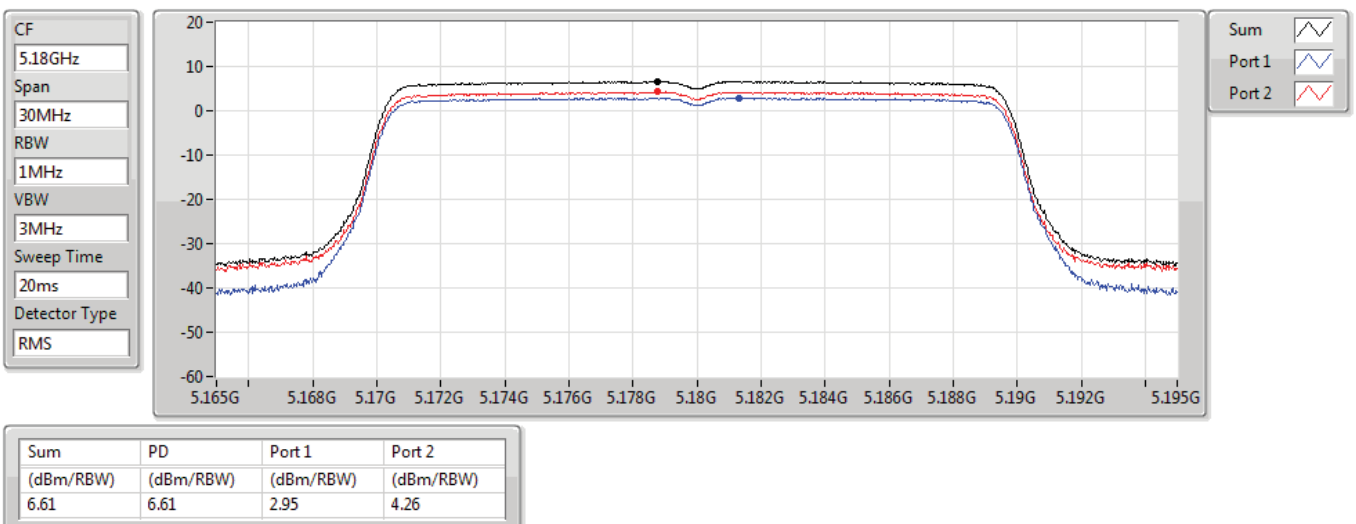


802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5180MHz

02/08/2021

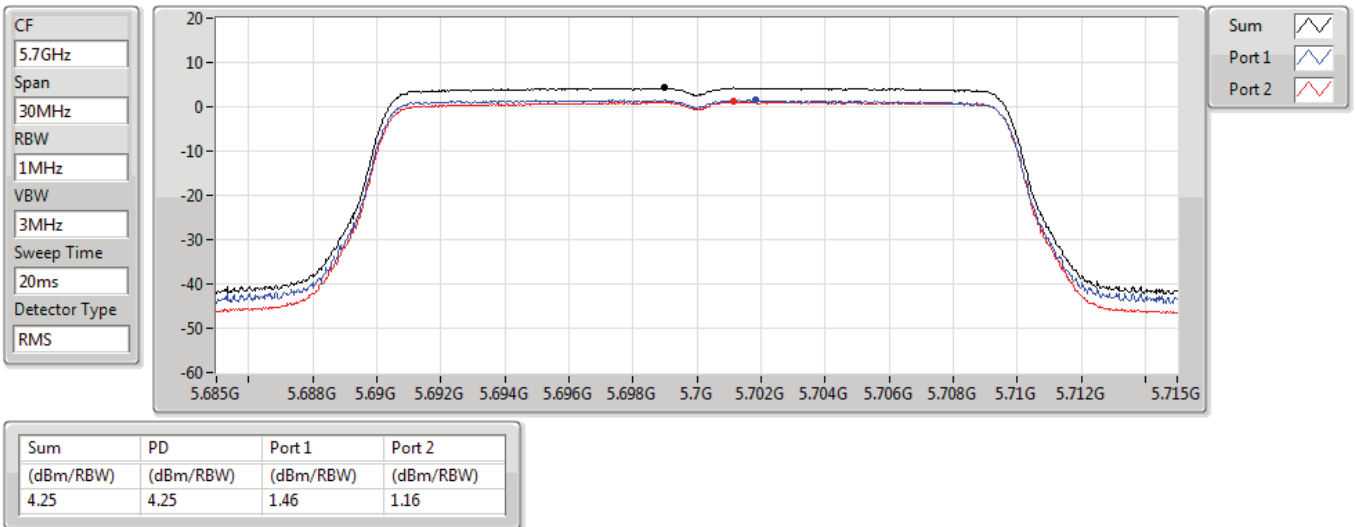


802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

5700MHz

02/08/2021

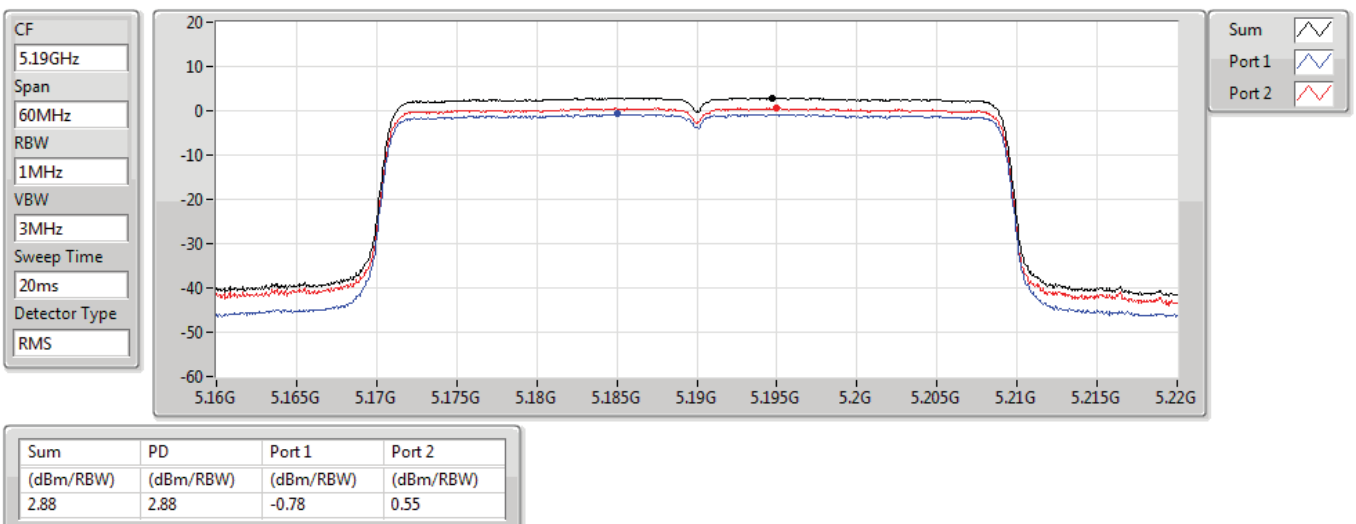


802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5190MHz

02/08/2021

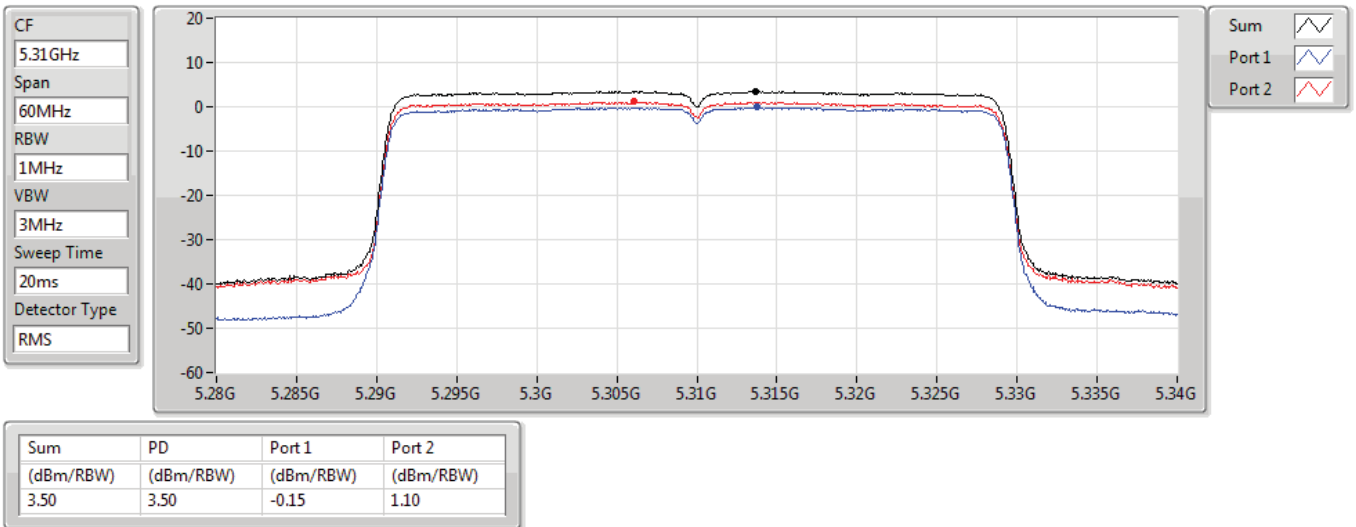


802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5310MHz

02/08/2021

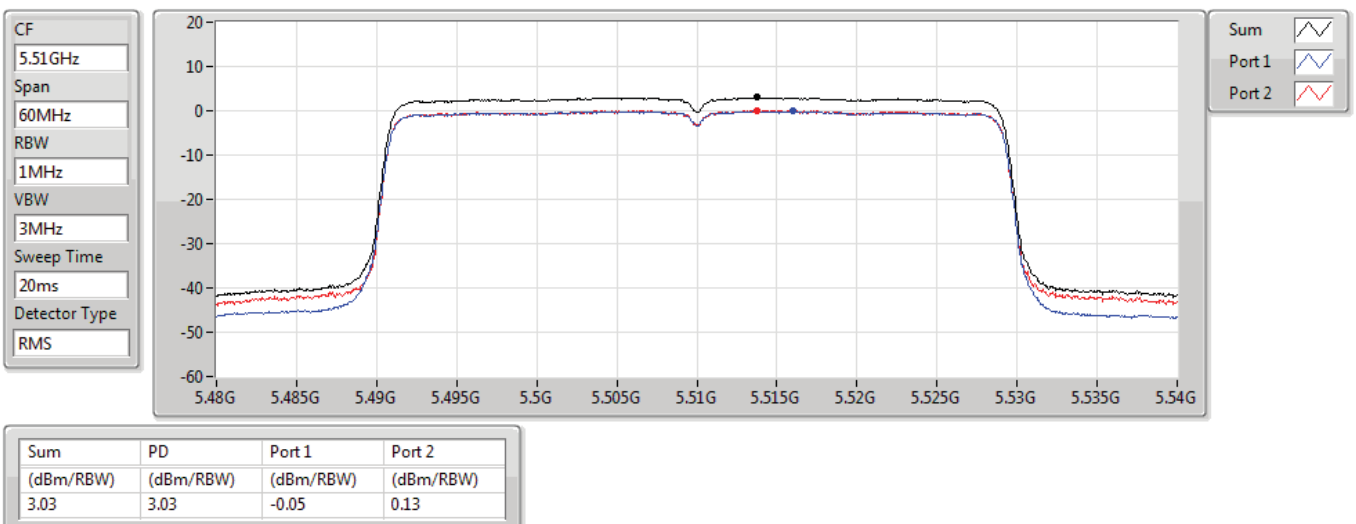


802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5510MHz

02/08/2021

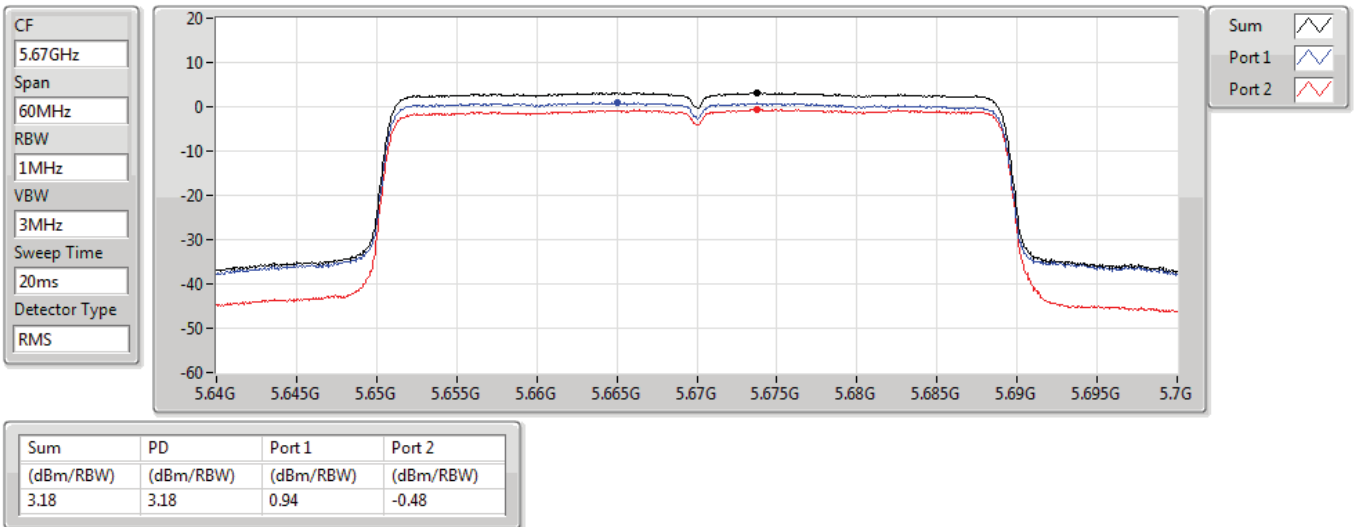


802.11ax HEW40_Nss2,(MCS0)_2TX

PSD

5670MHz

02/08/2021

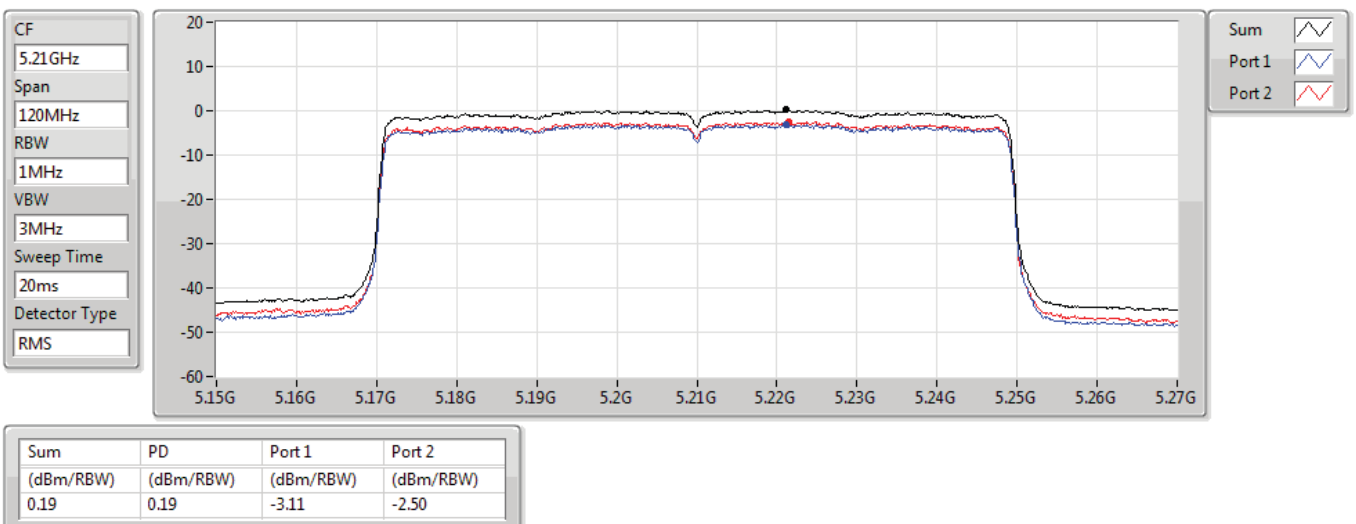


802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5210MHz

02/08/2021

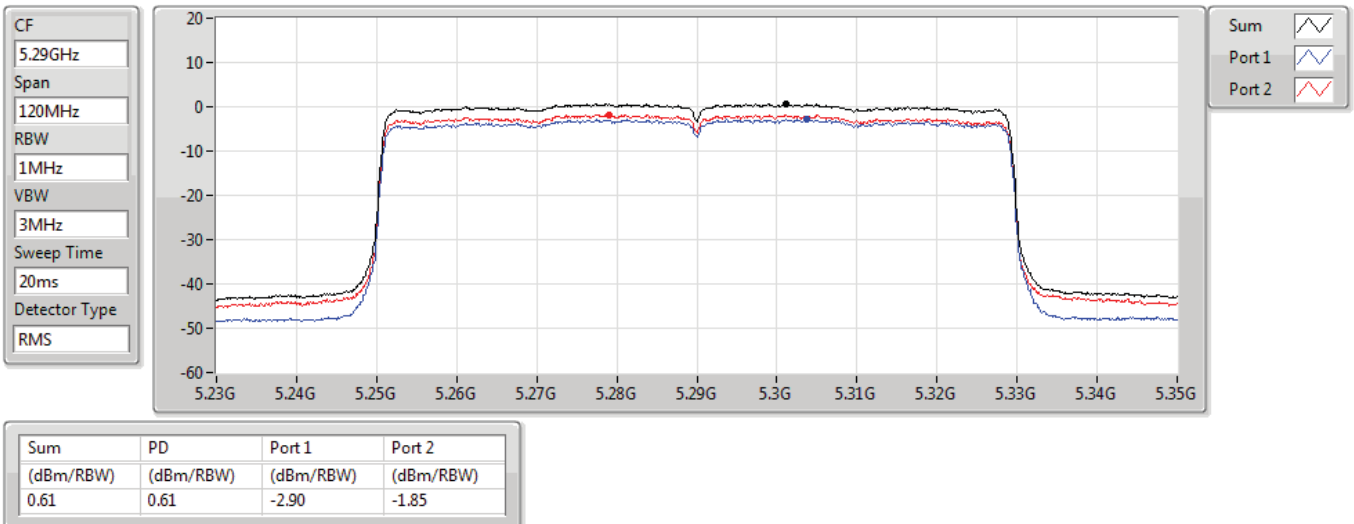


802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5290MHz

02/08/2021

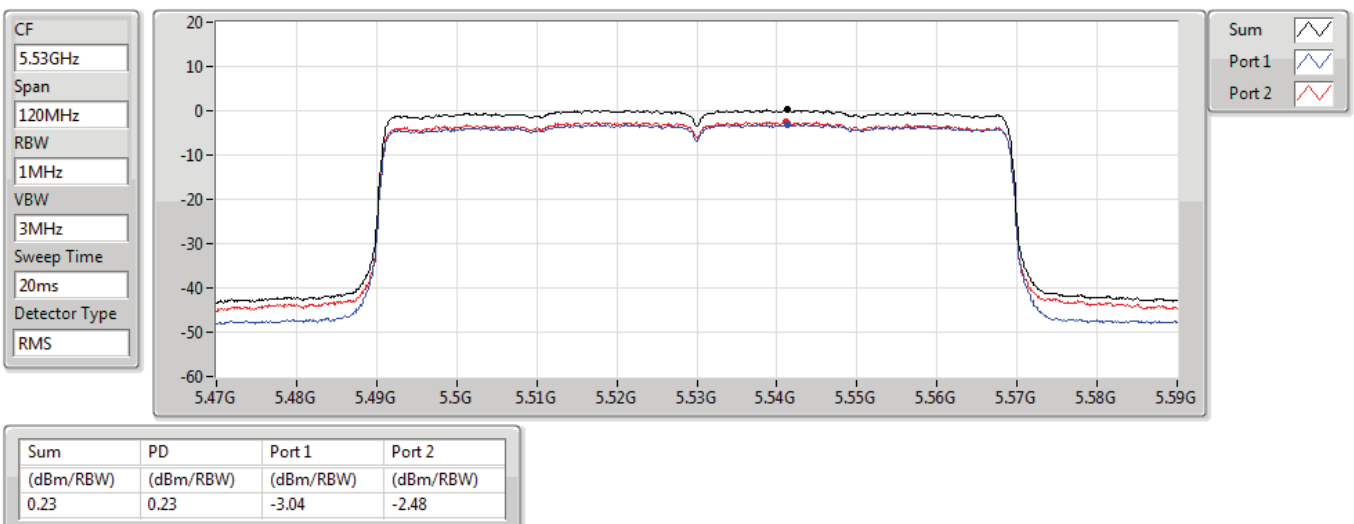


802.11ax HEW80_Nss2,(MCS0)_2TX

PSD

5530MHz

02/08/2021





Summary

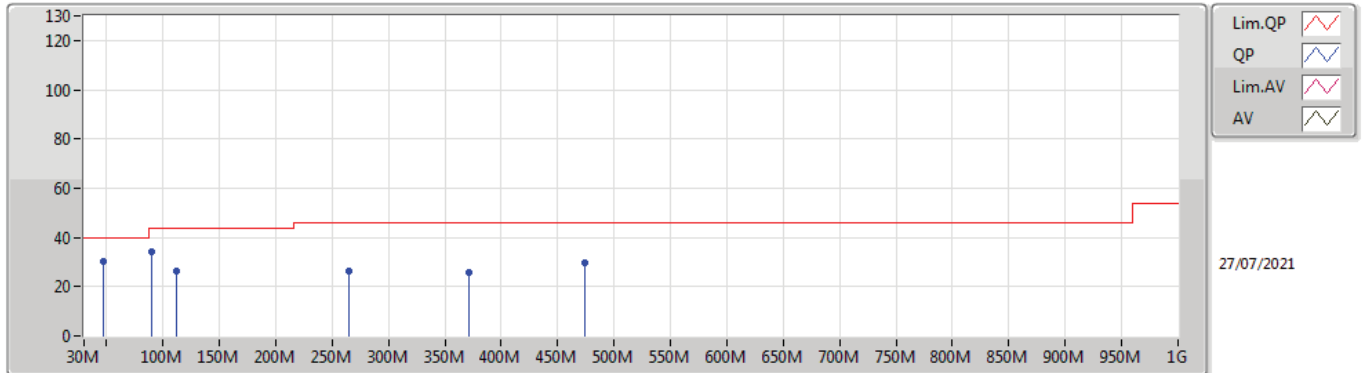
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	90.14M	33.97	43.50	-9.53	3	Vertical	0	1.00	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW80_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	47.46M	30.15	40.00	-9.85	3	Vertical	0	1.00	-
5775MHz	Pass	PK	90.14M	33.97	43.50	-9.53	3	Vertical	0	1.00	-
5775MHz	Pass	PK	111.48M	26.58	43.50	-16.92	3	Vertical	0	1.00	-
5775MHz	Pass	PK	264.74M	26.52	46.00	-19.48	3	Vertical	0	1.00	-
5775MHz	Pass	PK	371.44M	25.90	46.00	-20.10	3	Vertical	0	1.00	-
5775MHz	Pass	PK	474.26M	29.81	46.00	-16.19	3	Vertical	0	1.00	-
5775MHz	Pass	PK	30M	27.77	40.00	-12.23	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	109.54M	31.65	43.50	-11.85	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	204.6M	23.92	43.50	-19.58	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	303.54M	25.84	46.00	-20.16	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	429.64M	28.10	46.00	-17.90	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	573.2M	31.57	46.00	-14.43	3	Horizontal	360	1.00	-

802.11ax HEW80_Nss1,(MCS0)_2TX

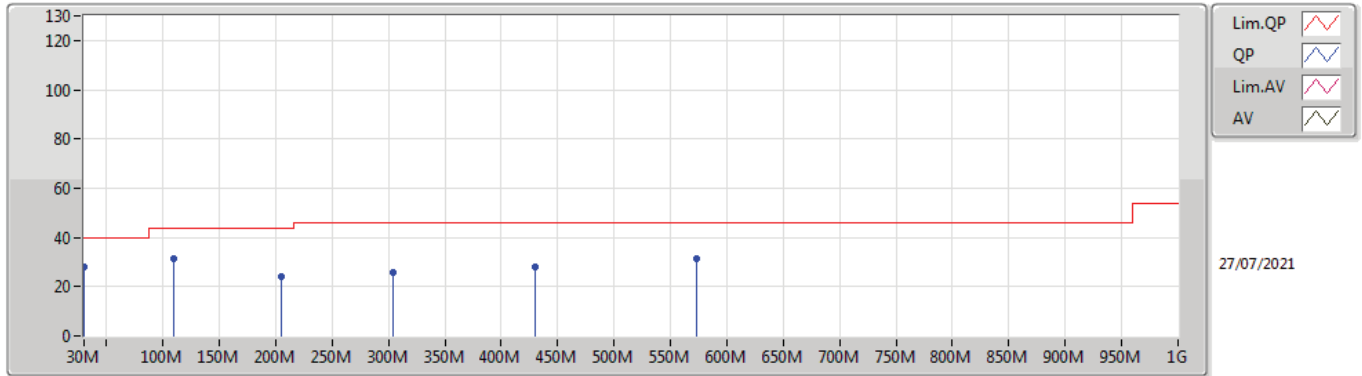
5775MHz_Adapter1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	47.46M	30.15	40.00	-9.85	-12.55	3	Vertical	0	1.00	-	42.70	14.05	1.04	27.64
PK	90.14M	33.97	43.50	-9.53	-12.41	3	Vertical	0	1.00	-	46.38	14.08	1.35	27.84
PK	111.48M	26.58	43.50	-16.92	-9.11	3	Vertical	0	1.00	-	35.69	17.19	1.49	27.79
PK	264.74M	26.52	46.00	-19.48	-6.23	3	Vertical	0	1.00	-	32.75	18.59	2.21	27.03
PK	371.44M	25.90	46.00	-20.10	-4.86	3	Vertical	0	1.00	-	30.76	20.03	2.63	27.52
PK	474.26M	29.81	46.00	-16.19	-2.52	3	Vertical	0	1.00	-	32.33	22.70	2.99	28.21

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_Adapter1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	27.77	40.00	-12.23	-2.81	3	Horizontal	360	1.00	-	30.58	23.32	0.86	26.99
PK	109.54M	31.65	43.50	-11.85	-9.26	3	Horizontal	360	1.00	-	40.91	17.04	1.48	27.78
PK	204.6M	23.92	43.50	-19.58	-10.74	3	Horizontal	360	1.00	-	34.66	14.57	1.98	27.29
PK	303.54M	25.84	46.00	-20.16	-6.17	3	Horizontal	360	1.00	-	32.01	18.54	2.37	27.08
PK	429.64M	28.10	46.00	-17.90	-3.27	3	Horizontal	360	1.00	-	31.37	21.85	2.83	27.95
PK	573.2M	31.57	46.00	-14.43	-1.12	3	Horizontal	360	1.00	-	32.69	23.98	3.27	28.37

**Summary**

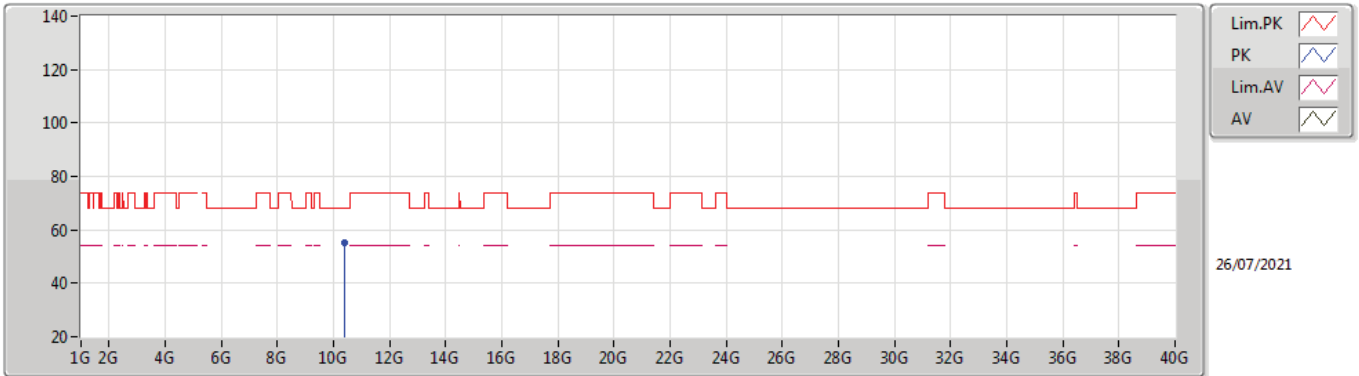
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	10.3798G	55.51	68.20	-12.69	3	Horizontal	113	2.84	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	11.4879G	42.29	54.00	-11.71	3	Vertical	5	1.98	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	11.4978G	42.51	54.00	-11.49	3	Vertical	0	2.03	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	11.4853G	44.53	54.00	-9.47	3	Vertical	171	1.38	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	AV	11.5106G	44.29	54.00	-9.71	3	Vertical	37	2.34	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	PK	10.3752G	55.41	68.20	-12.79	3	Vertical	225	1.50	-
5180MHz	Pass	PK	10.3798G	55.51	68.20	-12.69	3	Horizontal	113	2.84	-
5745MHz	Pass	AV	11.4879G	42.29	54.00	-11.71	3	Vertical	5	1.98	-
5745MHz	Pass	PK	11.4961G	57.45	74.00	-16.55	3	Vertical	5	1.98	-
5745MHz	Pass	AV	11.4908G	41.27	54.00	-12.73	3	Horizontal	234	1.37	-
5745MHz	Pass	PK	11.4864G	56.23	74.00	-17.77	3	Horizontal	234	1.37	-
5785MHz	Pass	AV	11.5439G	42.26	54.00	-11.74	3	Vertical	143	1.68	-
5785MHz	Pass	PK	11.5642G	55.84	74.00	-18.16	3	Vertical	143	1.68	-
5785MHz	Pass	AV	11.5438G	42.14	54.00	-11.86	3	Horizontal	318	2.16	-
5785MHz	Pass	PK	11.5517G	55.34	74.00	-18.66	3	Horizontal	318	2.16	-
5825MHz	Pass	AV	11.6572G	41.81	54.00	-12.19	3	Vertical	154	1.48	-
5825MHz	Pass	PK	11.6429G	55.50	74.00	-18.50	3	Vertical	154	1.48	-
5825MHz	Pass	AV	11.645G	41.71	54.00	-12.29	3	Horizontal	2	1.47	-
5825MHz	Pass	PK	11.6387G	54.77	74.00	-19.23	3	Horizontal	2	1.47	-
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	11.4978G	42.51	54.00	-11.49	3	Vertical	0	2.03	-
5745MHz	Pass	PK	11.4774G	56.43	74.00	-17.57	3	Vertical	0	2.03	-
5745MHz	Pass	AV	11.4928G	42.46	54.00	-11.54	3	Horizontal	257	1.50	-
5745MHz	Pass	PK	11.5019G	56.25	74.00	-17.75	3	Horizontal	257	1.50	-
5785MHz	Pass	AV	11.546G	42.17	54.00	-11.83	3	Vertical	176	1.50	-
5785MHz	Pass	PK	11.5695G	55.67	74.00	-18.33	3	Vertical	176	1.50	-
5785MHz	Pass	AV	11.5464G	42.00	54.00	-12.00	3	Horizontal	335	2.30	-
5785MHz	Pass	PK	11.5554G	55.50	74.00	-18.50	3	Horizontal	335	2.30	-
5825MHz	Pass	AV	11.6583G	41.69	54.00	-12.31	3	Vertical	182	1.50	-
5825MHz	Pass	PK	11.6348G	55.41	74.00	-18.59	3	Vertical	182	1.50	-
5825MHz	Pass	AV	11.6444G	41.63	54.00	-12.37	3	Horizontal	360	1.60	-
5825MHz	Pass	PK	11.6345G	55.03	74.00	-18.97	3	Horizontal	360	1.60	-
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	AV	11.4853G	44.53	54.00	-9.47	3	Vertical	171	1.38	-
5755MHz	Pass	PK	11.5254G	56.68	74.00	-17.32	3	Vertical	171	1.38	-
5755MHz	Pass	AV	11.4951G	44.31	54.00	-9.69	3	Horizontal	360	2.58	-
5755MHz	Pass	PK	11.5244G	56.35	74.00	-17.65	3	Horizontal	360	2.58	-
5795MHz	Pass	AV	11.5434G	43.64	54.00	-10.36	3	Vertical	349	1.50	-
5795MHz	Pass	PK	11.5744G	55.54	74.00	-18.46	3	Vertical	349	1.50	-
5795MHz	Pass	AV	11.5548G	44.43	54.00	-9.57	3	Horizontal	26	1.50	-
5795MHz	Pass	PK	11.543G	55.96	74.00	-18.04	3	Horizontal	26	1.50	-
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	AV	11.5106G	44.29	54.00	-9.71	3	Vertical	37	2.34	-
5775MHz	Pass	PK	11.5098G	57.13	74.00	-16.87	3	Vertical	37	2.34	-
5775MHz	Pass	AV	11.524G	43.86	54.00	-10.14	3	Horizontal	38	1.50	-
5775MHz	Pass	PK	11.5468G	55.57	74.00	-18.43	3	Horizontal	38	1.50	-

802.11a_Nss1,(6Mbps)_2TX

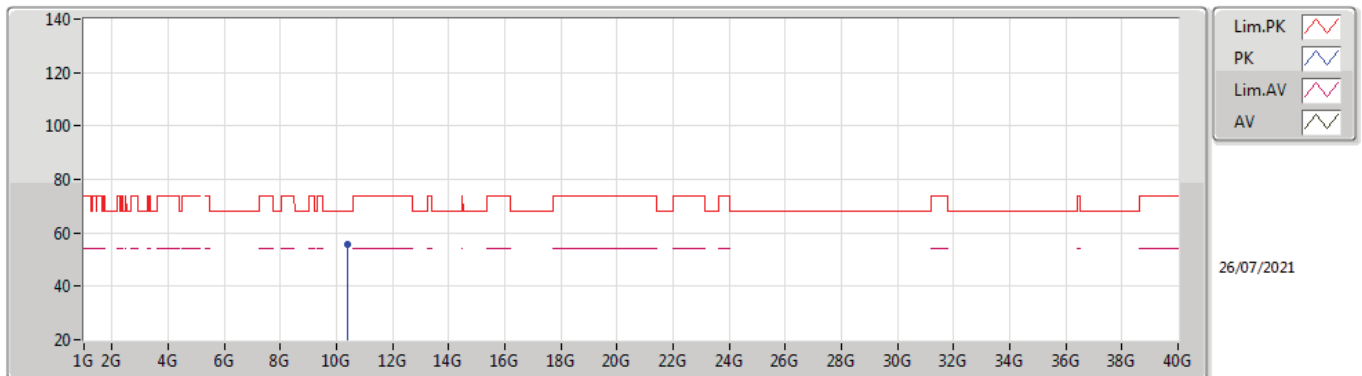
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.3752G	55.41	68.20	-12.79	17.11	3	Vertical	225	1.50	-	38.30	39.40	12.37	34.66

802.11a_Nss1,(6Mbps)_2TX

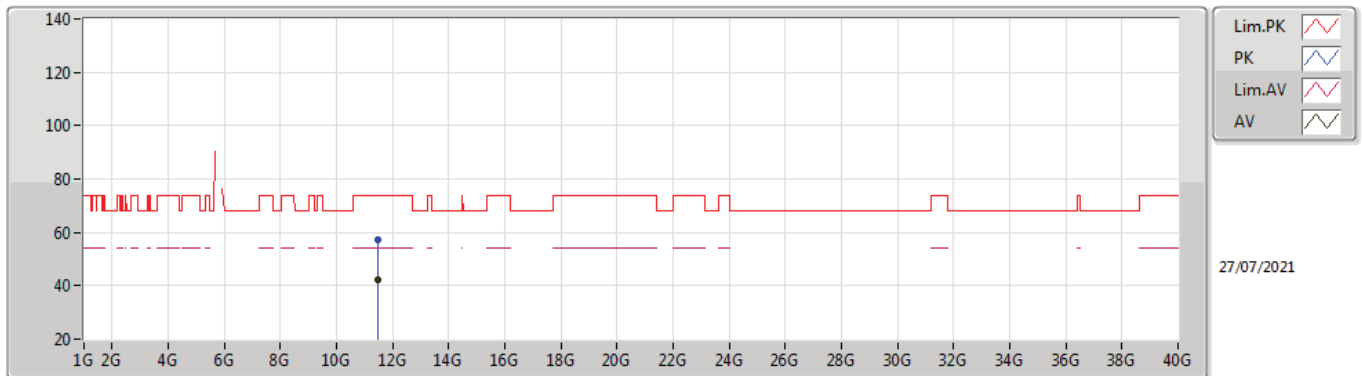
5180MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	10.3798G	55.51	68.20	-12.69	17.13	3	Horizontal	113	2.84	-	38.38	39.42	12.37	34.66

802.11a_Nss1,(6Mbps)_2TX

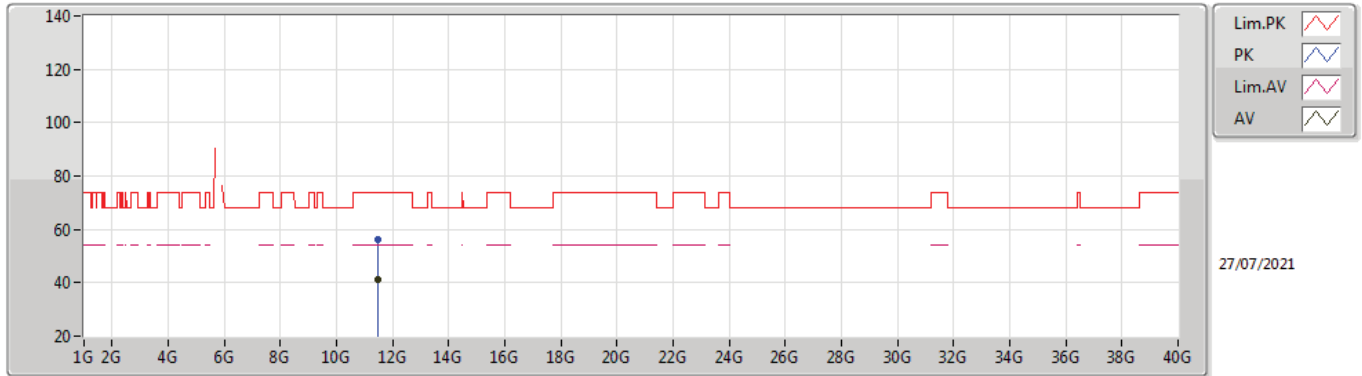
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.4879G	42.29	54.00	-11.71	18.75	3	Vertical	5	1.98	-	23.54	40.08	12.83	34.16
PK	11.4961G	57.45	74.00	-16.55	18.77	3	Vertical	5	1.98	-	38.68	40.09	12.84	34.16

802.11a_Nss1,(6Mbps)_2TX

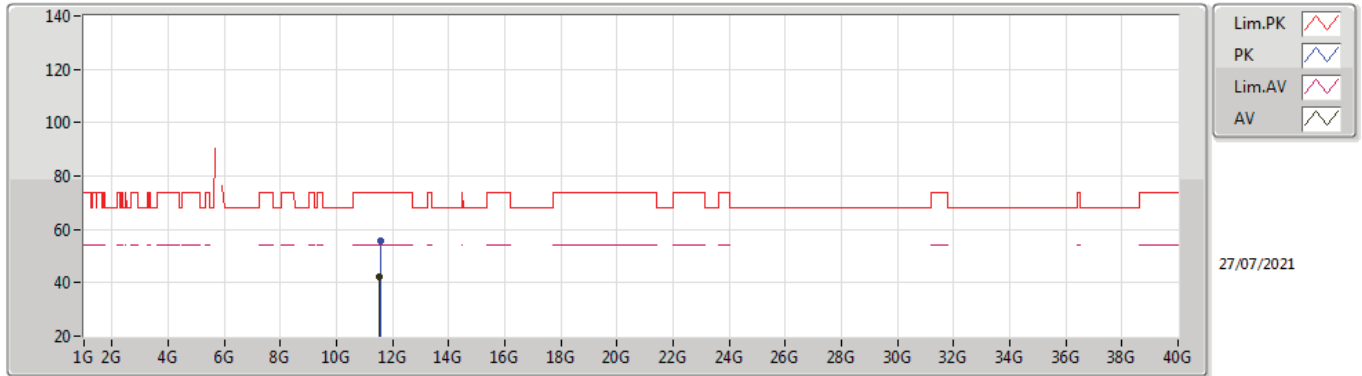
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.4908G	41.27	54.00	-12.73	18.76	3	Horizontal	234	1.37	-	22.51	40.08	12.84	34.16
PK	11.4864G	56.23	74.00	-17.77	18.74	3	Horizontal	234	1.37	-	37.49	40.07	12.83	34.16

802.11a_Nss1,(6Mbps)_2TX

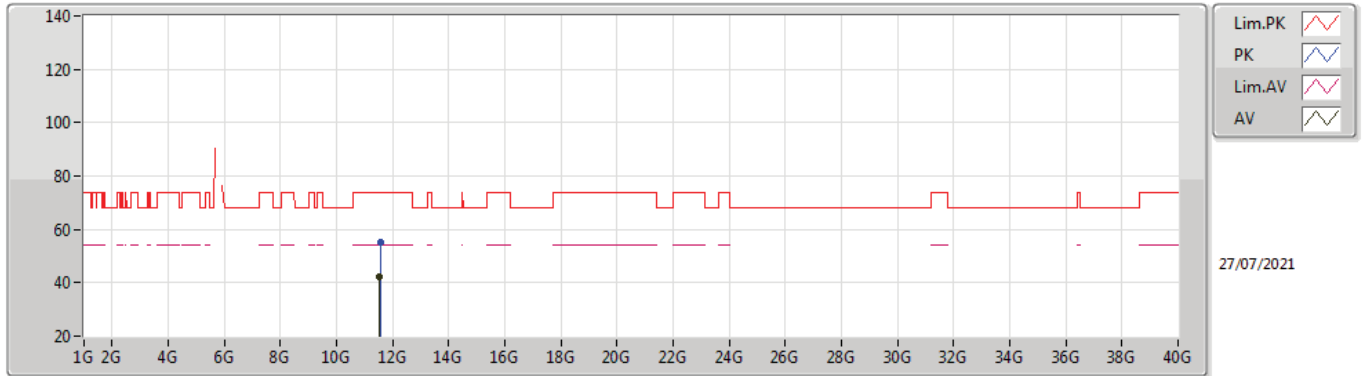
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.5439G	42.26	54.00	-11.74	18.65	3	Vertical	143	1.68	-	23.61	39.97	12.86	34.18
PK	11.5642G	55.84	74.00	-18.16	18.59	3	Vertical	143	1.68	-	37.25	39.91	12.87	34.19

802.11a_Nss1,(6Mbps)_2TX

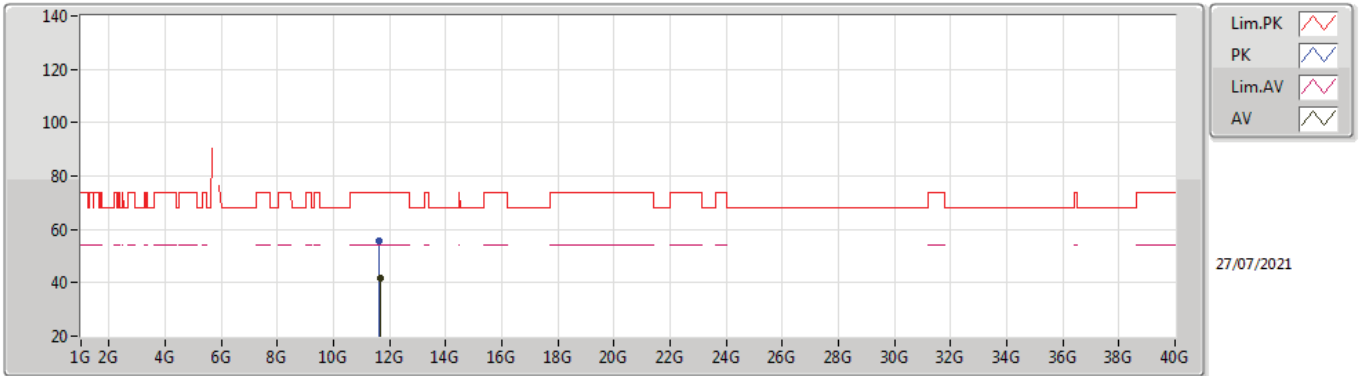
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.5438G	42.14	54.00	-11.86	18.65	3	Horizontal	318	2.16	-	23.49	39.97	12.86	34.18
PK	11.5517G	55.34	74.00	-18.66	18.62	3	Horizontal	318	2.16	-	36.72	39.94	12.86	34.18

802.11a_Nss1,(6Mbps)_2TX

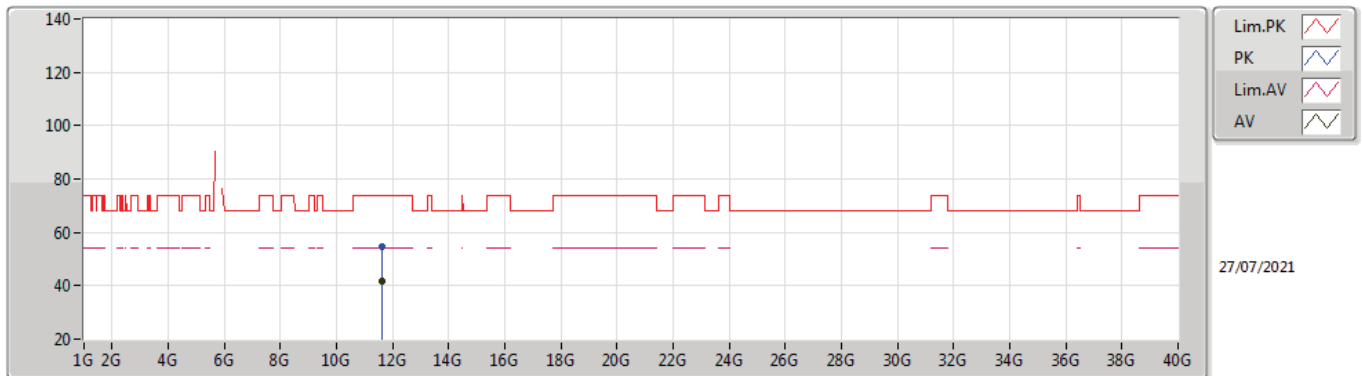
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.6572G	41.81	54.00	-12.19	18.13	3	Vertical	154	1.48	-	23.68	39.46	12.91	34.24
PK	11.6429G	55.50	74.00	-18.50	18.21	3	Vertical	154	1.48	-	37.29	39.54	12.90	34.23

802.11a_Nss1,(6Mbps)_2TX

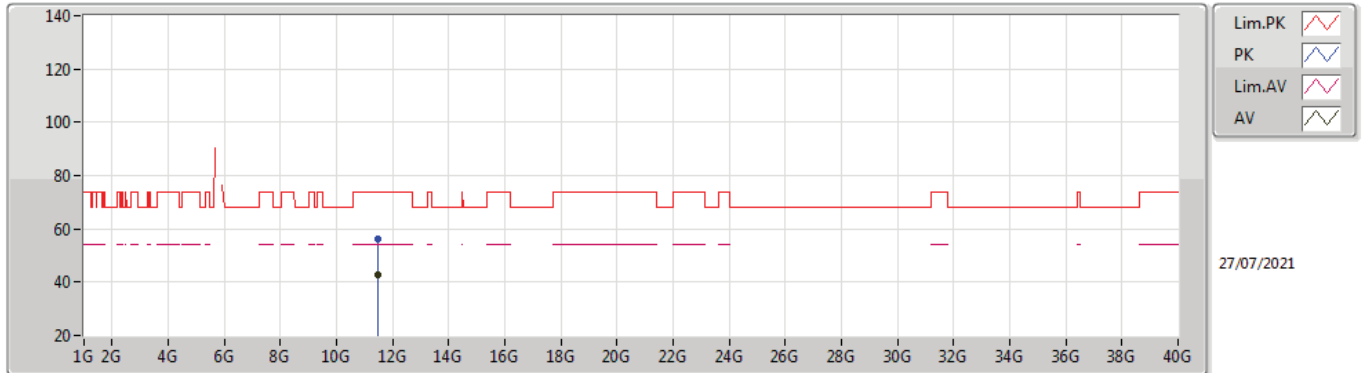
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.645G	41.71	54.00	-12.29	18.20	3	Horizontal	2	1.47	-	23.51	39.53	12.90	34.23
PK	11.6387G	54.77	74.00	-19.23	18.24	3	Horizontal	2	1.47	-	36.53	39.57	12.90	34.23

802.11ax HEW20_Nss1,(MCS0)_2TX

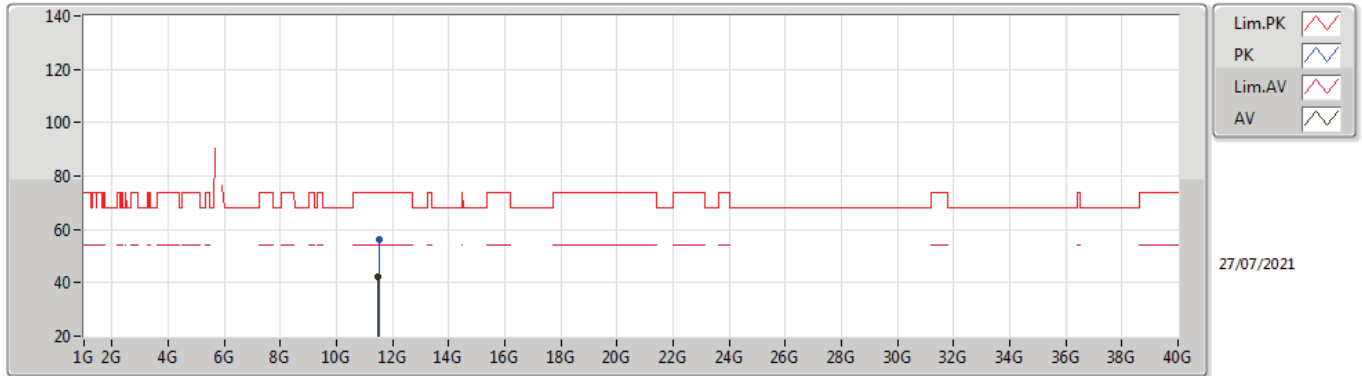
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.4978G	42.51	54.00	-11.49	18.78	3	Vertical	0	2.03	-	23.73	40.10	12.84	34.16
PK	11.4774G	56.43	74.00	-17.57	18.72	3	Vertical	0	2.03	-	37.71	40.05	12.83	34.16

802.11ax HEW20_Nss1,(MCS0)_2TX

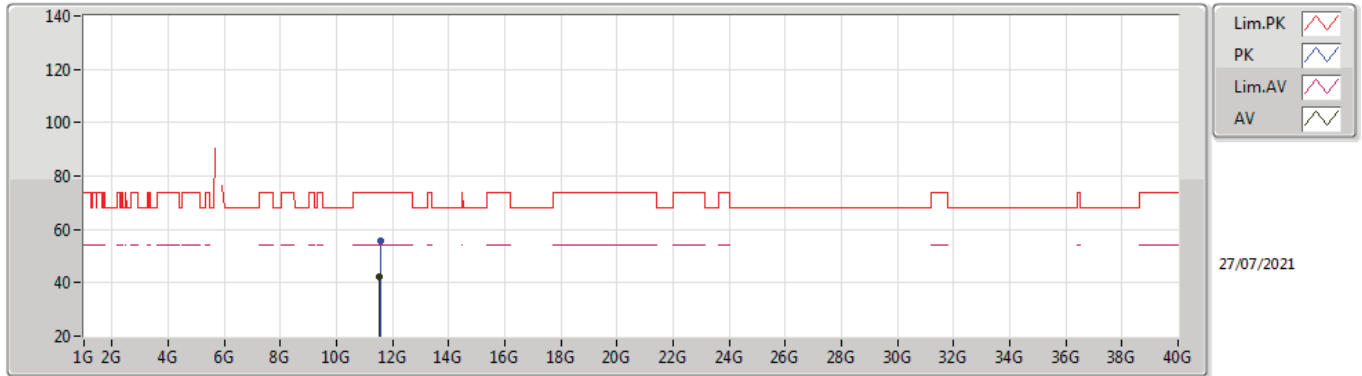
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.4928G	42.46	54.00	-11.54	18.77	3	Horizontal	257	1.50	-	23.69	40.09	12.84	34.16
PK	11.5019G	56.25	74.00	-17.75	18.77	3	Horizontal	257	1.50	-	37.48	40.09	12.84	34.16

802.11ax HEW20_Nss1,(MCS0)_2TX

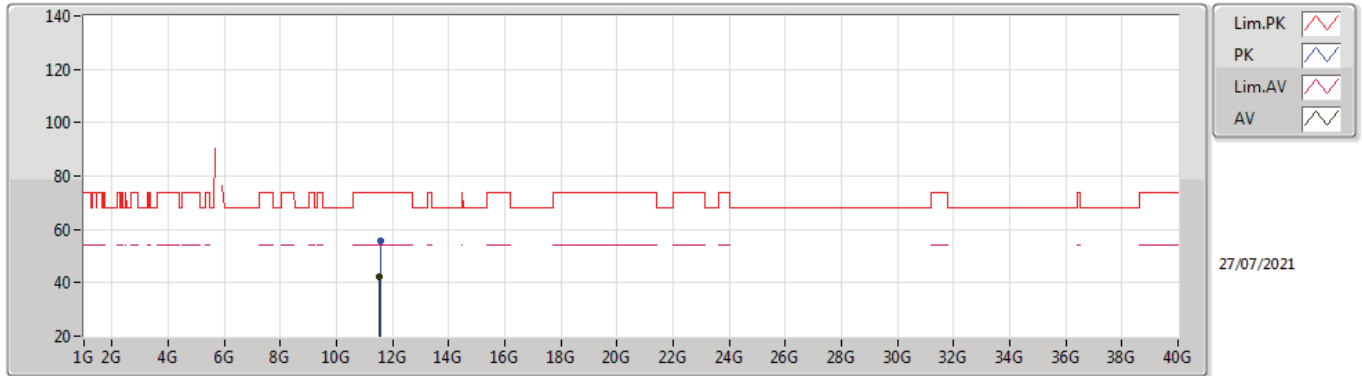
5785MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.546G	42.17	54.00	-11.83	18.64	3	Vertical	176	1.50	-	23.53	39.96	12.86	34.18
PK	11.5695G	55.67	74.00	-18.33	18.57	3	Vertical	176	1.50	-	37.10	39.89	12.87	34.19

802.11ax HEW20_Nss1,(MCS0)_2TX

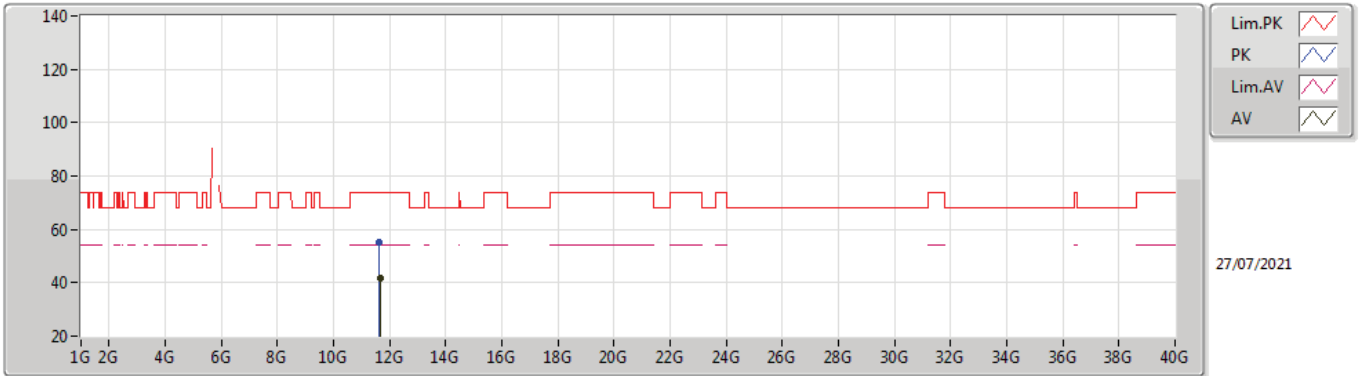
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.5464G	42.00	54.00	-12.00	18.64	3	Horizontal	335	2.30	-	23.36	39.96	12.86	34.18
PK	11.5554G	55.50	74.00	-18.50	18.60	3	Horizontal	335	2.30	-	36.90	39.93	12.86	34.19

802.11ax HEW20_Nss1,(MCS0)_2TX

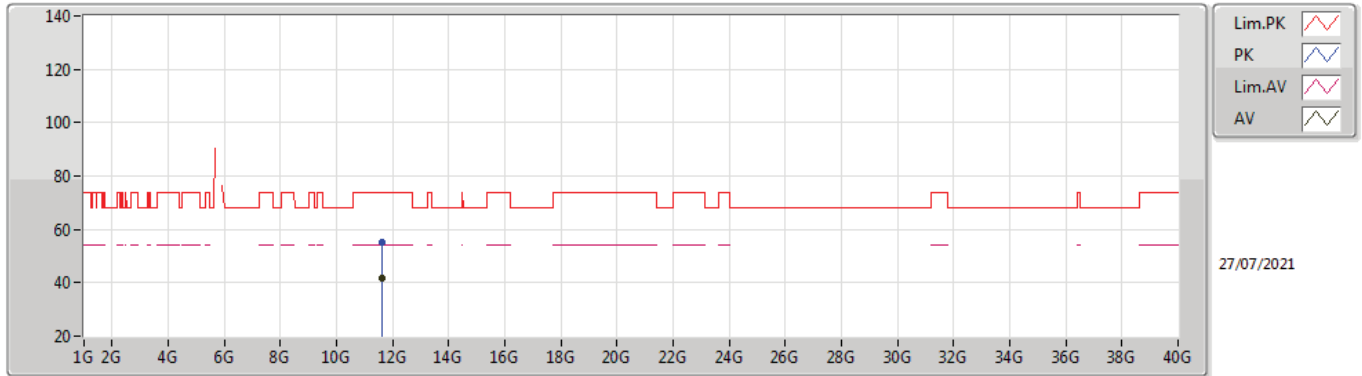
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.6583G	41.69	54.00	-12.31	18.12	3	Vertical	182	1.50	-	23.57	39.45	12.91	34.24
PK	11.6348G	55.41	74.00	-18.59	18.27	3	Vertical	182	1.50	-	37.14	39.59	12.90	34.22

802.11ax HEW20_Nss1,(MCS0)_2TX

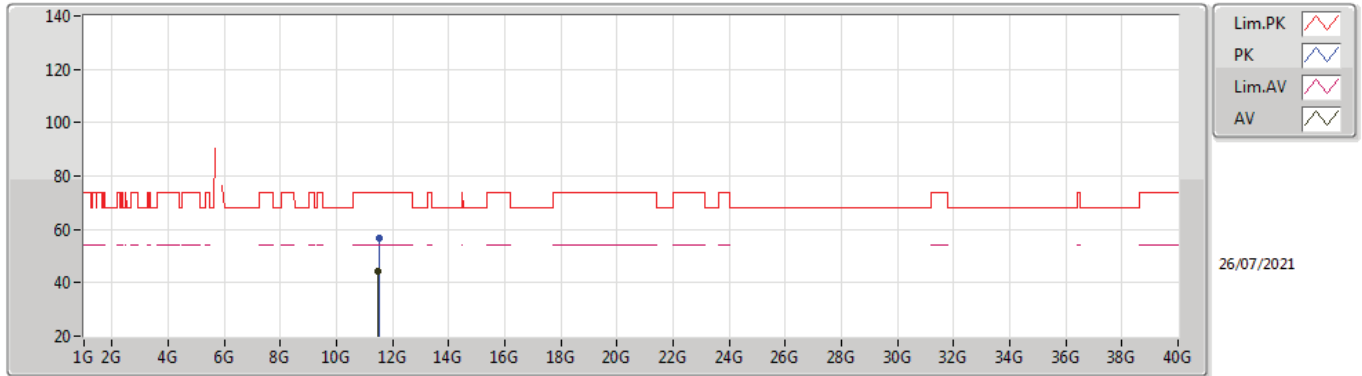
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.6444G	41.63	54.00	-12.37	18.20	3	Horizontal	360	1.60	-	23.43	39.53	12.90	34.23
PK	11.6345G	55.03	74.00	-18.97	18.27	3	Horizontal	360	1.60	-	36.76	39.59	12.90	34.22

802.11ax HEW40_Nss1,(MCS0)_2TX

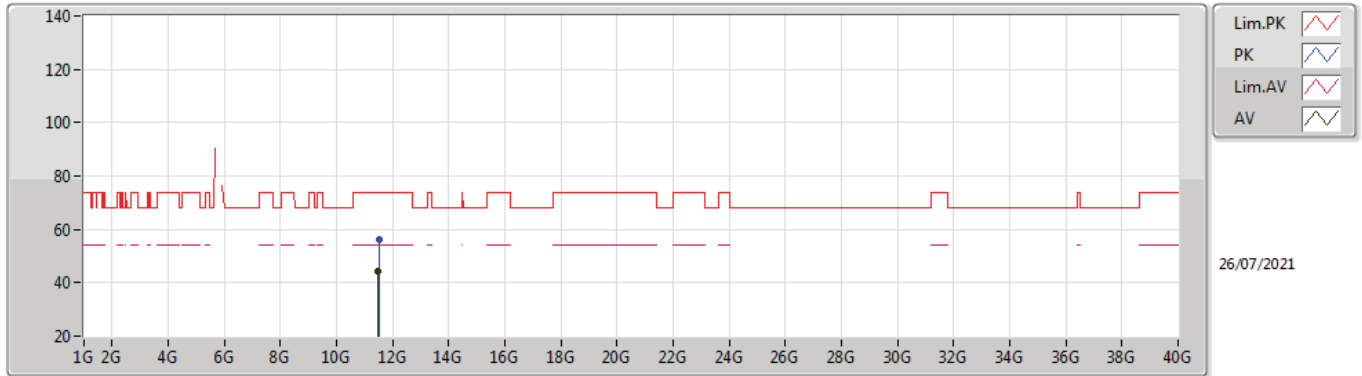
5755MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.4853G	44.53	54.00	-9.47	18.74	3	Vertical	171	1.38	-	25.79	40.07	12.83	34.16
PK	11.5254G	56.68	74.00	-17.32	18.70	3	Vertical	171	1.38	-	37.98	40.02	12.85	34.17

802.11ax HEW40_Nss1,(MCS0)_2TX

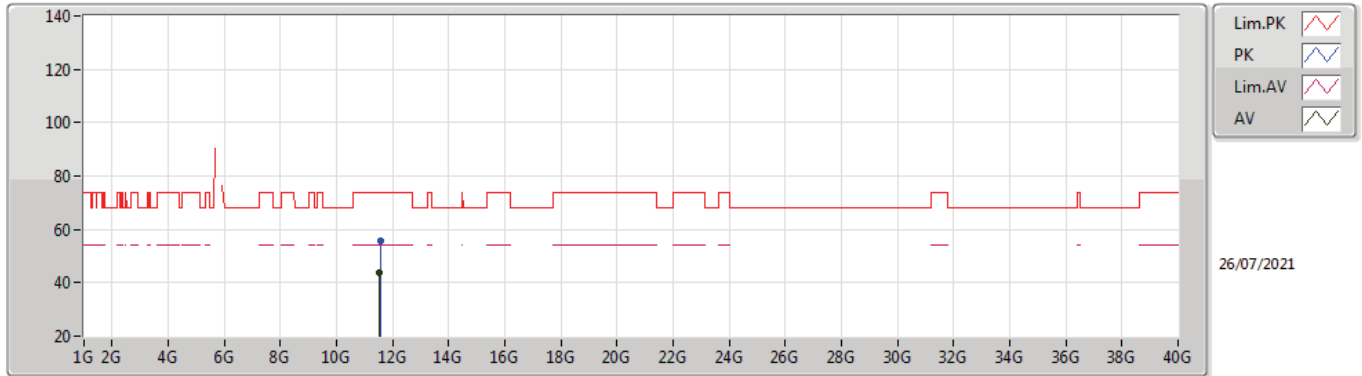
5755MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.4951G	44.31	54.00	-9.69	18.77	3	Horizontal	360	2.58	-	25.54	40.09	12.84	34.16
PK	11.5244G	56.35	74.00	-17.65	18.71	3	Horizontal	360	2.58	-	37.64	40.03	12.85	34.17

802.11ax HEW40_Nss1,(MCS0)_2TX

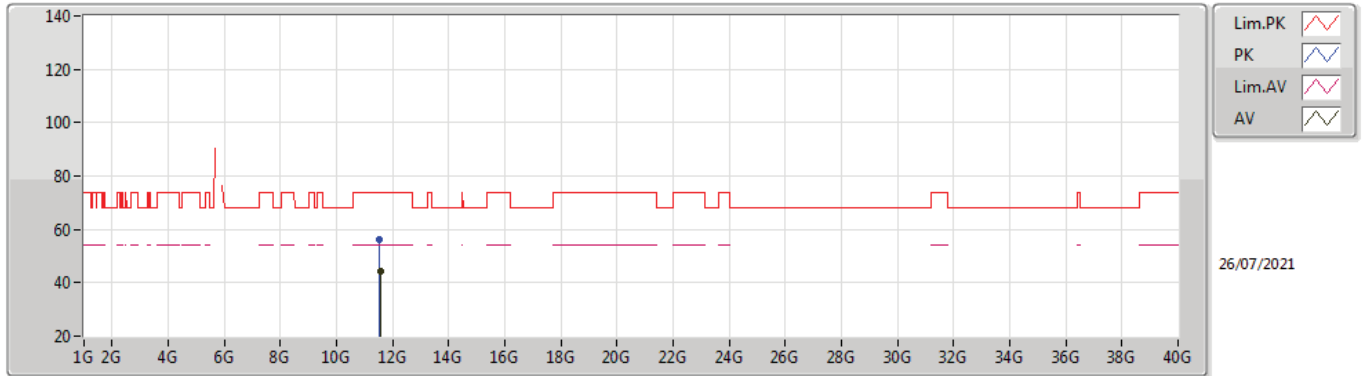
5795MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.5434G	43.64	54.00	-10.36	18.65	3	Vertical	349	1.50	-	24.99	39.97	12.86	34.18
PK	11.5744G	55.54	74.00	-18.46	18.55	3	Vertical	349	1.50	-	36.99	39.88	12.87	34.20

802.11ax HEW40_Nss1,(MCS0)_2TX

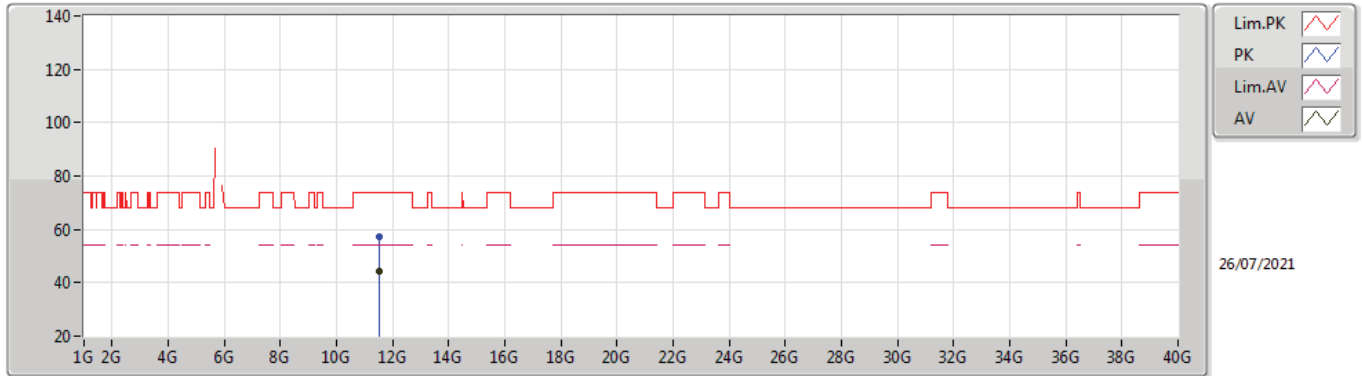
5795MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.5548G	44.43	54.00	-9.57	18.61	3	Horizontal	26	1.50	-	25.82	39.94	12.86	34.19
PK	11.543G	55.96	74.00	-18.04	18.65	3	Horizontal	26	1.50	-	37.31	39.97	12.86	34.18

802.11ax HEW80_Nss1,(MCS0)_2TX

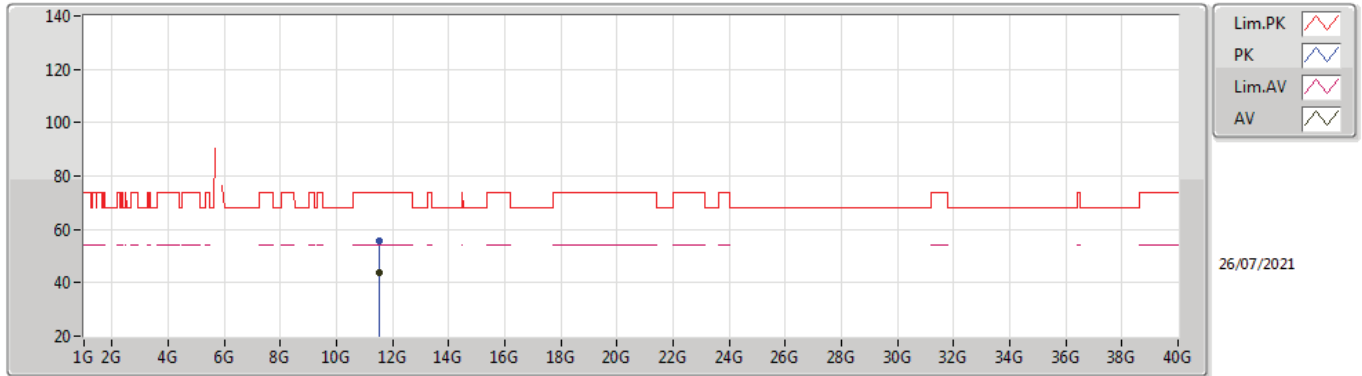
5775MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.5106G	44.29	54.00	-9.71	18.74	3	Vertical	37	2.34	-	25.55	40.07	12.84	34.17
PK	11.5098G	57.13	74.00	-16.87	18.75	3	Vertical	37	2.34	-	38.38	40.07	12.84	34.16

802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.524G	43.86	54.00	-10.14	18.71	3	Horizontal	38	1.50	-	25.15	40.03	12.85	34.17
PK	11.5468G	55.57	74.00	-18.43	18.64	3	Horizontal	38	1.50	-	36.93	39.96	12.86	34.18