



FCC Test Report

FCC ID : UIDTG4482
Equipment : Wireless Gateway
Brand Name : ARRIS
Model Name : TG4482
Applicant : ARRIS
3871 Lakefield Drive, Suite 300, Suwanee, GA 30024
Manufacturer : ARRIS
3871 Lakefield Drive, Suite 300, Suwanee, GA 30024
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 14, 2019, and testing was started from Dec. 16, 2019 and completed on Mar. 06, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-D1 Ver2.6
FCC ID: UIDTG4482

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Performed	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

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

Comments and explanations:

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

Reviewed by: Sam Tsai

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number	Max Output Power (dBm)
5250-5350	a, n (HT20), ac (VHT20), ax (HEW 20)	5260-5320	52-64 [4]	23.93
5470-5725		5500-5700	100-140 [11]	
Straddle 5720		5720	144 [1]	
5250-5350	n (HT40), ac (VHT40), ax (HEW 40)	5270-5310	54-62 [2]	
5470-5725		5510-5670	102-134 [5]	
Straddle 5710		5710	142 [1]	
5250-5350	ac (VHT80), ax (HEW 80)	5290	58 [1]	
5470-5725		5530-5610	106-122 [2]	
Straddle 5690		5690	138 [1]	
5150-5350	ac (VHT160), ax (HEW 160)	5250	50 [1]	
5470-5725		5570	114 [1]	

Non-Beamforming (4T4S)

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT160	160	4TX
5.25-5.35GHz	802.11ac VHT160	160	4TX
5.47-5.725GHz	802.11ac VHT160	160	4TX
5.25-5.35GHz	802.11ax HEW20	20	4TX
5.47-5.725GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.25-5.35GHz	802.11ax HEW40	40	4TX



Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.25-5.35GHz	802.11ax HEW80	80	4TX
5.47-5.725GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.25-5.35GHz	802.11ax HEW160	160	4TX
5.47-5.725GHz	802.11ax HEW160	160	4TX
5.15-5.25GHz	802.11ax HEW160	160	4TX

Beamforming (4T1S)

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT20-BF	20	4TX
5.47-5.725GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.25-5.35GHz	802.11ac VHT40-BF	40	4TX
5.47-5.725GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.25-5.35GHz	802.11ac VHT80-BF	80	4TX
5.47-5.725GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ac VHT160-BF	160	4TX
5.25-5.35GHz	802.11ac VHT160-BF	160	4TX
5.47-5.725GHz	802.11ac VHT160-BF	160	4TX
5.25-5.35GHz	802.11ax HEW20-BF	20	4TX
5.47-5.725GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.25-5.35GHz	802.11ax HEW40-BF	40	4TX
5.47-5.725GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.25-5.35GHz	802.11ax HEW80-BF	80	4TX
5.47-5.725GHz	802.11ax HEW80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW160-BF	160	4TX
5.25-5.35GHz	802.11ax HEW160-BF	160	4TX
5.47-5.725GHz	802.11ax HEW160-BF	160	4TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ The resource unit of HEW20, HEW40, HEW80 and HEW160 only support full loading.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector
1	4	Airgain	N03CPAEN	PIFA	I-PEX
2	3	Airgain	N03CPAEH	PIFA	I-PEX
3	2	Airgain	N03CPAEK	PIFA	I-PEX
4	1	Airgain	N03CPAEJ	PIFA	I-PEX

Frequency (MHz)	BW (MHz)	5G Directional Gain (dBi)	
		4TX 1Stream (Correlated)	4TX 4Streams (Uncorrelated)
5180	20	5.7	2.5
5200	20	5.7	2.5
5240	20	5.7	2.5
5260	20	5.7	2.5
5300	20	5.7	2.5
5320	20	5.7	2.5
5500	20	5.6	2
5580	20	5.6	2
5700	20	5.6	2
5720	20	5.6	1.9
5745	20	6.6	1.9
5785	20	6.6	1.9
5825	20	6.6	1.9
5190	40	5.7	2.5
5230	40	5.7	2.5
5270	40	5.7	2.5
5310	40	5.7	2.5
5510	40	5.6	2
5550	40	5.6	2
5670	40	5.6	2
5710	40	5.6	2
5755	40	6.6	1.9

Frequency (MHz)	BW (MHz)	5G Directional Gain (dBi)	
		4TX 1Stream (Correlated)	4TX 4Streams (Uncorrelated)
5795	40	6.6	1.9
5210	80	5.7	2.5
5290	80	5.7	2.5
5530	80	5.6	2
5610	80	5.6	2
5690	80	5.6	2
5775	80	6.6	1.9
5250	160	5.7	2.5
5570	160	5.6	2

Note. The composite gain was used during the test.

For 5GHz function:

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

Ant. 1 (port 4), Ant. 2 (port 3), Ant. 3 (port 2) and Ant. 4 (port 1) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC 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
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 (4T4S)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20_Nss4,(MCS0)_4TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40_Nss4,(MCS0)_4TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT80_Nss4,(MCS0)_4TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT160_Nss4,(MCS0)_4TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20_Nss4,(MCS0)_4TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40_Nss4,(MCS0)_4TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW80_Nss4,(MCS0)_4TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW160_Nss4,(MCS0)_4TX	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

Beamforming (4T1S)

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	0.952	0.21	3.846m	300
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	0.963	0.16	4.618m	300
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	0.944	0.25	5.11m	300
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	0.724	1.4	888.75u	3k
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.952	0.21	5.339m	300
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.96	0.18	5.379m	300
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.958	0.19	5.398m	300
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	0.964	0.16	5.398m	300

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

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR992407AN
Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
U-NII-2A and UNII-2C were added.	All
Straddle channel was added.	
ac/ax 160 mode was added.	

1.2 Testing Applied Standards

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Raven	22.4~25.1°C / 61~69%	17/Dec/2019~06/Mar/2020
Radiated	03CH03-HY	Jeff	21.5~26.5°C / 51~58%	16/Dec/2019~06/Mar/2020

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Test Software	Dos
---------------	-----

Non-Beamforming (4T4S)

Mode	Power Setting
802.11ac VHT20_Nss4,(MCS0)_4TX	-
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	17.5
5580MHz	17.5
5700MHz	18
5720MHz Straddle 5.47-5.725GHz	18
5720MHz Straddle 5.725-5.85GHz	18
802.11ac VHT40_Nss4,(MCS0)_4TX	-
5270MHz	17.5
5310MHz	17.5
5510MHz	17.5
5550MHz	17.5
5670MHz	17.5
5710MHz Straddle 5.47-5.725GHz	18.5
5710MHz Straddle 5.725-5.85GHz	18.5
802.11ac VHT80_Nss4,(MCS0)_4TX	-
5290MHz	17.5
5530MHz	18
5610MHz	18
5690MHz Straddle 5.47-5.725GHz	18.5
5690MHz Straddle 5.725-5.85GHz	18.5
802.11ac VHT160_Nss4,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	18.5
5250MHz Straddle 5.25-5.35GHz	18.5
5570MHz	18
802.11ax HEW20_Nss4,(MCS0)_4TX	-



Mode	Power Setting
5260MHz	17
5300MHz	17
5320MHz	17
5500MHz	17
5580MHz	17
5700MHz	17
5720MHz Straddle 5.47-5.725GHz	18
5720MHz Straddle 5.725-5.85GHz	18
802.11ax HEW40_Nss4,(MCS0)_4TX	-
5270MHz	17
5310MHz	17
5510MHz	17.5
5550MHz	17.5
5670MHz	17
5710MHz Straddle 5.47-5.725GHz	18.5
5710MHz Straddle 5.725-5.85GHz	18.5
802.11ax HEW80_Nss4,(MCS0)_4TX	-
5290MHz	16
5530MHz	16
5610MHz	17.5
5690MHz Straddle 5.47-5.725GHz	17.5
5690MHz Straddle 5.725-5.85GHz	17.5
802.11ax HEW160_Nss4,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	15.5
5250MHz Straddle 5.25-5.35GHz	15.5
5570MHz	16

Beamforming (4T1S)

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5260MHz	46
5300MHz	45
5320MHz	41
5500MHz	41
5580MHz	45
5700MHz	43
5720MHz Straddle 5.47-5.725GHz	47
5720MHz Straddle 5.725-5.85GHz	47
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5270MHz	45
5310MHz	43
5510MHz	44



Mode	Power Setting
5550MHz	30
5670MHz	54
5710MHz Straddle 5.47-5.725GHz	47
5710MHz Straddle 5.725-5.85GHz	47
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5290MHz	43
5530MHz	41
5610MHz	47
5690MHz Straddle 5.47-5.725GHz	45
5690MHz Straddle 5.725-5.85GHz	45
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	38
5250MHz Straddle 5.25-5.35GHz	38
5570MHz	38
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5260MHz	45
5300MHz	45
5320MHz	42
5500MHz	43
5580MHz	46
5700MHz	44
5720MHz Straddle 5.47-5.725GHz	48
5720MHz Straddle 5.725-5.85GHz	48
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5270MHz	45
5310MHz	43
5510MHz	43
5550MHz	46
5670MHz	43
5710MHz Straddle 5.47-5.725GHz	47
5710MHz Straddle 5.725-5.85GHz	47
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5290MHz	42
5530MHz	43
5610MHz	46
5690MHz Straddle 5.47-5.725GHz	46
5690MHz Straddle 5.725-5.85GHz	46
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5250MHz Straddle 5.15-5.25GHz	44
5250MHz Straddle 5.25-5.35GHz	44
5570MHz	42

2.3 The Worst Case Measurement Configuration

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal link
1	WLAN 2.4GHz +WLAN 5GHz
Refer to Sporton Test Report No.: Appendix F of FR992407AN for Radiated Emission Co-location	
Operating Mode	CTX
1	WLAN 2.4GHz +WLAN 5GHz
Refer to Sporton Test Report No.: FA992407-01 for Co-location RF Exposure Evaluation.	

2.4 Accessories

Accessories				
AC Adapter	Brand Name	ARRIS	Model Name	NBC56A120460VU
	Power Rating	I/P: 100-240Vac, 1.5A, O/P: 12Vdc, 4.6A		
	Power Cord	1.85 meter, non-shielded cable, w/o ferrite core		

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

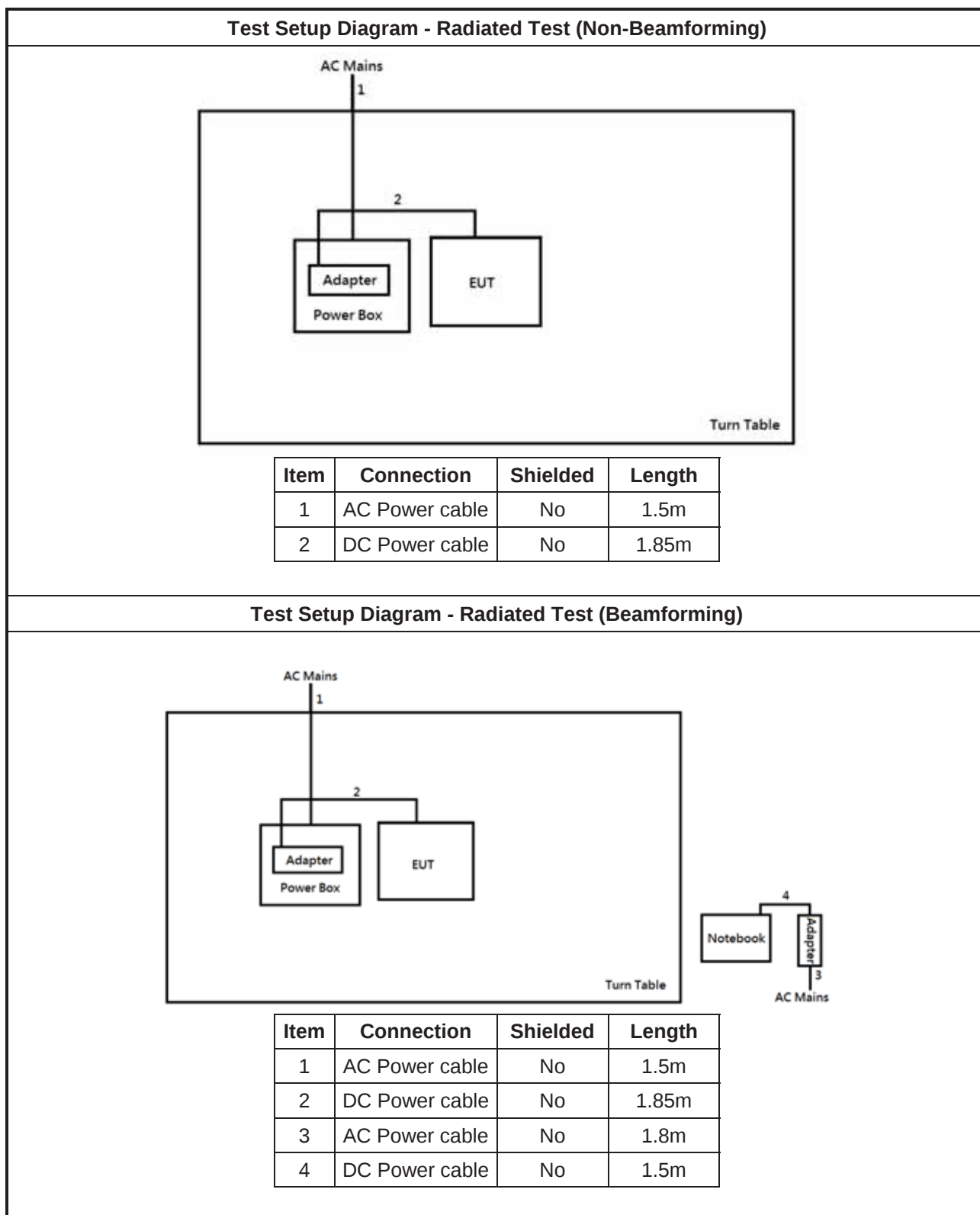
2.5 Support Equipment

Support Equipment – Conducted (Non-Beamforming)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	DoC	-
2	Adapter for Notebook	DELL	HA65NM130	DoC	-

Support Equipment – Conducted (Beamforming)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	P73G	-	-
2	Adapter for Notebook	DELL	LA65NM130	DoC	-

Support Equipment – Radiated (Beamforming)					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	P73G	-	Remote
2	Adapter for Notebook	DELL	LA65NM130	-	Remote

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 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.

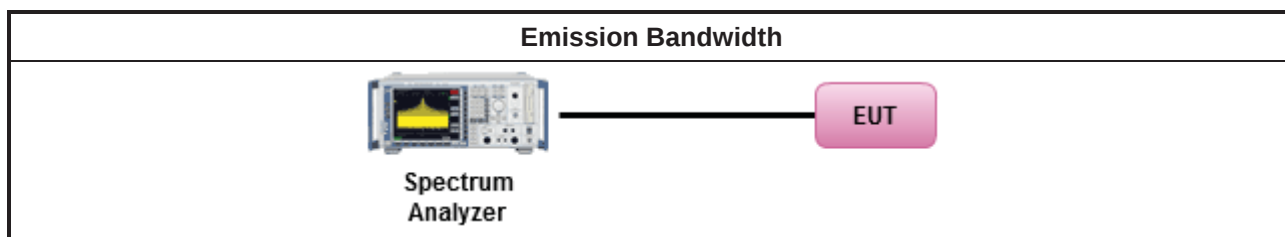
3.1.2 Measuring Instruments

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

3.1.3 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 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.	

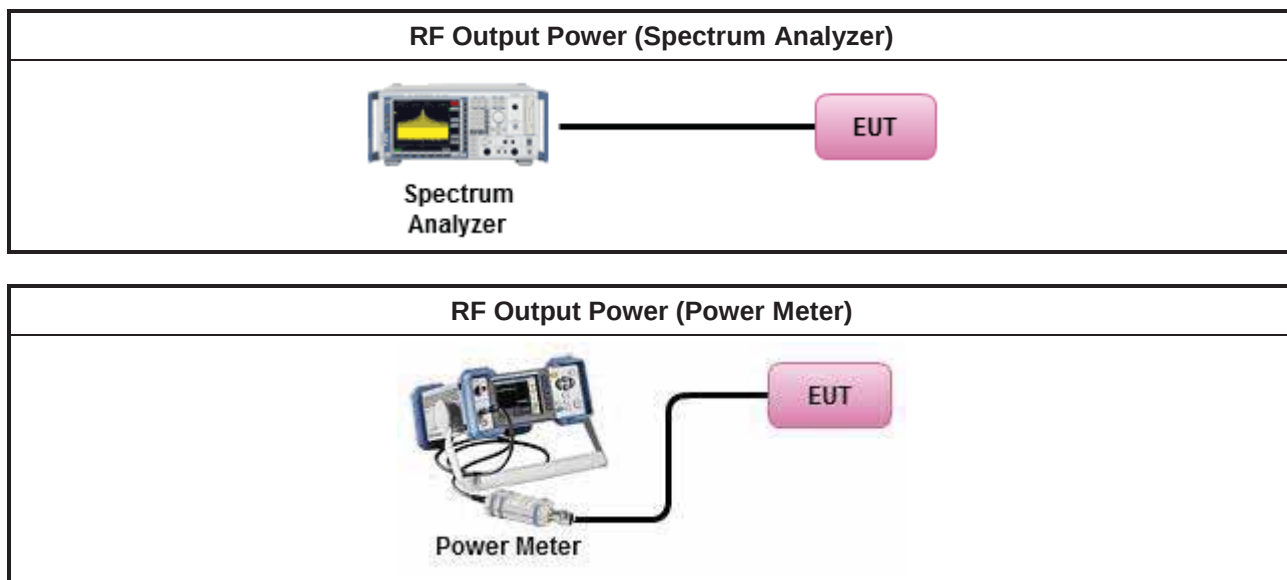
3.2.2 Measuring Instruments

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

3.2.3 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]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

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

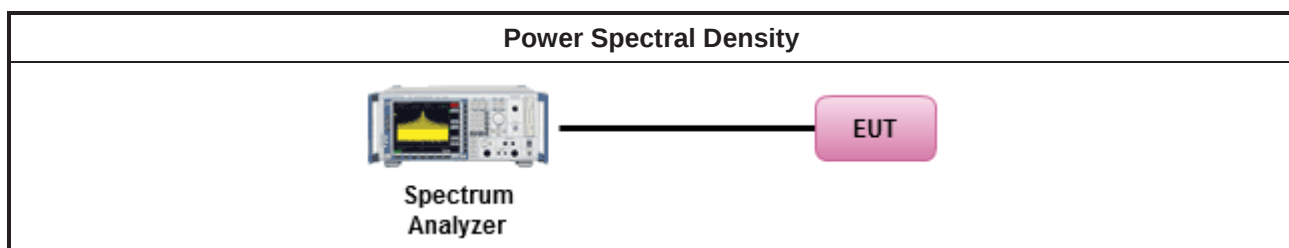
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 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).

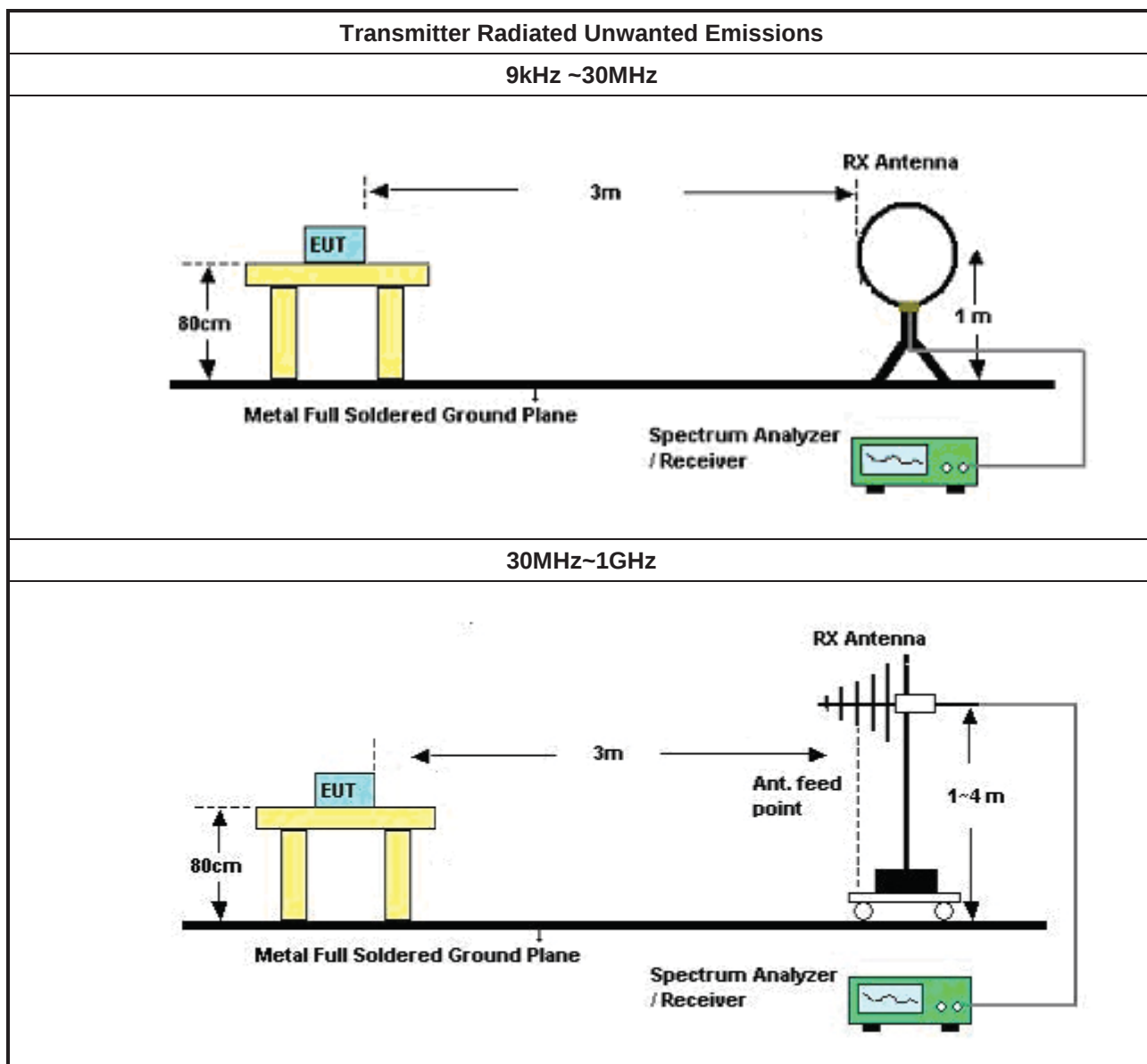
3.4.2 Measuring Instruments

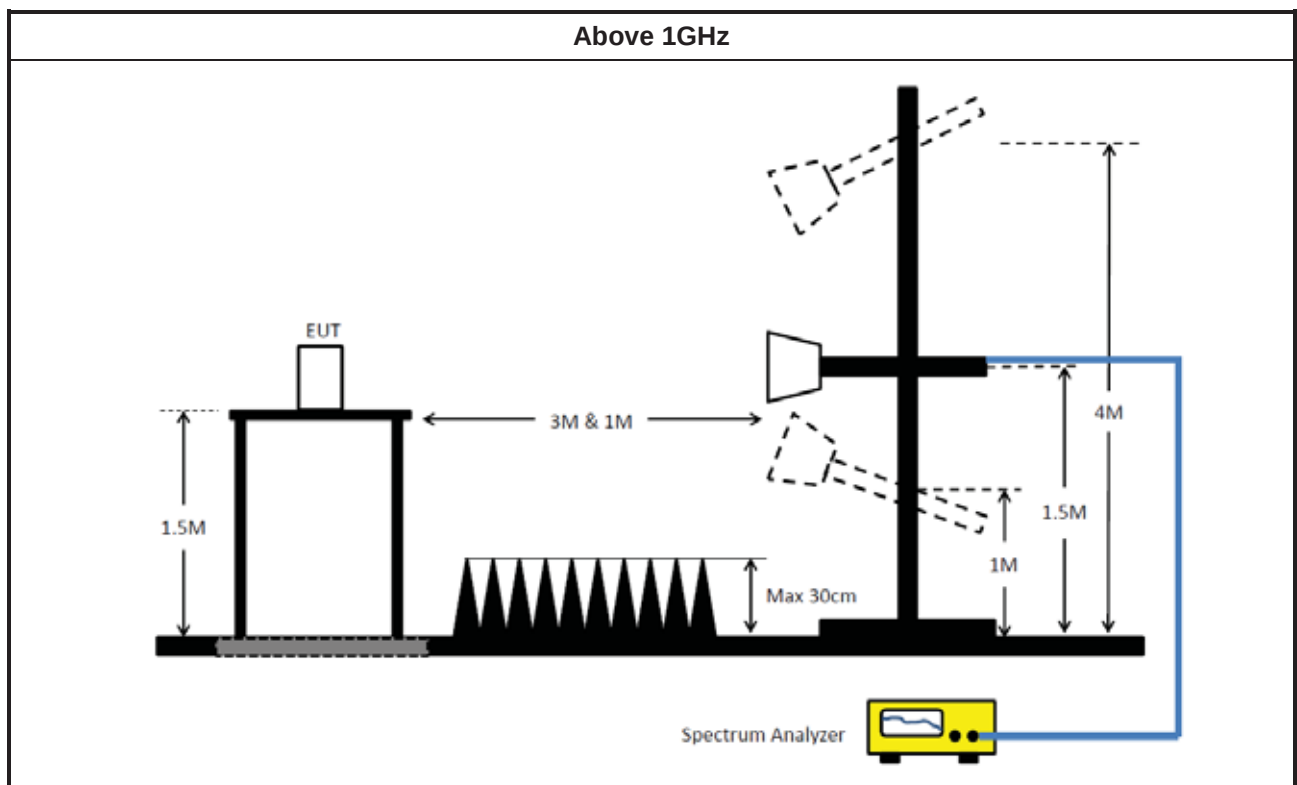
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

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

3.4.4 Test Setup





4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10kHz ~ 40GHz	01/Oct/2019	30/Sep/2020
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
CABLE 0.2m	HUBER	329022/4	RF Cable - 02	30 to 1000MHz 1 to 18GHz	02/Apr/2019	01/Apr/2020
CABLE 0.2m	HUBER	329013/3	RF Cable - 18	30 to 1000MHz 1 to 18GHz	02/Apr/2019	01/Apr/2020
CABLE 0.5m	HUBER	MY39476/4	RF Cable - 47	30 to 1000MHz 1 to 18GHz	02/Apr/2019	01/Apr/2020

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	30/Aug/2019	29/Aug/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	30/Aug/2019	29/Aug/2020
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112D / MTJ6102-05	2678 / 001	30MHz ~ 1GHz	06/Jul/2019	05/Jul/2020
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	09/Sep/2019	08/Sep/2020
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Nov/2019	07/Nov/2020
Signal Analyzer	R&S	FSP40	100305	9 kHz ~ 40 GHz	10/Jun/2019	09/Jun/2020
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	22/Mar/2019	21/Mar/2020
RF CABLE 6m	HUBER+SUHNER	SUOFLEX 104	SN 805801/4	1GHz ~ 40GHz	21/Mar/2019	20/Mar/2020
RF CABLE	HUBER+SUHNER	SUOFLEX 104	802378/4	1 GHz ~ 18 GHz	04/Jul/2019	03/Jul/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	09/Mar/2019	08/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT160_Nss4,(MCS0)_4TX	88.56M	77.161M	77M2D1D	87.52M	76.682M
802.11ax HEW160_Nss4,(MCS0)_4TX	84.36M	78.681M	78M7D1D	82.32M	78.201M
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	28.68M	18.651M	18M7D1D	26.01M	18.021M
802.11ac VHT40_Nss4,(MCS0)_4TX	54.36M	37.181M	37M2D1D	51.12M	36.642M
802.11ac VHT80_Nss4,(MCS0)_4TX	94.92M	76.282M	76M3D1D	93.12M	76.162M
802.11ac VHT160_Nss4,(MCS0)_4TX	88.56M	77.401M	77M4D1D	86.64M	76.602M
802.11ax HEW20_Nss4,(MCS0)_4TX	23.22M	19.1M	19M1D1D	20.67M	18.951M
802.11ax HEW40_Nss4,(MCS0)_4TX	44.28M	38.261M	38M3D1D	41.88M	37.901M
802.11ax HEW80_Nss4,(MCS0)_4TX	88.92M	77.961M	78M0D1D	85.2M	77.721M
802.11ax HEW160_Nss4,(MCS0)_4TX	83.16M	78.441M	78M4D1D	81.6M	77.841M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	28.89M	18.261M	18M3D1D	17.94M	14.048M
802.11ac VHT40_Nss4,(MCS0)_4TX	54.54M	37.301M	37M3D1D	39.76M	33.023M
802.11ac VHT80_Nss4,(MCS0)_4TX	95.16M	76.282M	76M3D1D	81.9M	72.714M
802.11ac VHT160_Nss4,(MCS0)_4TX	176.4M	155.202M	155MD1D	173.52M	154.963M
802.11ax HEW20_Nss4,(MCS0)_4TX	23.13M	19.13M	19M1D1D	14.84M	14.413M
802.11ax HEW40_Nss4,(MCS0)_4TX	45.36M	38.441M	38M4D1D	35.363M	33.733M
802.11ax HEW80_Nss4,(MCS0)_4TX	88.92M	77.961M	78M0D1D	79.05M	73.163M
802.11ax HEW160_Nss4,(MCS0)_4TX	168.48M	156.642M	157MD1D	165.36M	156.402M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	3.9M	5.197M	5M20D1D	3.88M	5.117M
802.11ac VHT40_Nss4,(MCS0)_4TX	3.26M	5.217M	5M22D1D	3.24M	4.918M
802.11ac VHT80_Nss4,(MCS0)_4TX	3.26M	5.637M	5M64D1D	3.26M	5.157M
802.11ax HEW20_Nss4,(MCS0)_4TX	4.53M	4.963M	4M96D1D	4.47M	4.693M
802.11ax HEW40_Nss4,(MCS0)_4TX	4.14M	4.483M	4M48D1D	4.035M	4.153M
802.11ax HEW80_Nss4,(MCS0)_4TX	4.02M	4.918M	4M92D1D	4M	4.078M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	26.01M	18.081M	26.76M	18.051M	28.68M	18.651M	26.34M	18.171M
5300MHz	Pass	Inf	26.13M	18.051M	26.7M	18.021M	28.59M	18.621M	26.58M	18.171M
5320MHz	Pass	Inf	26.37M	18.081M	26.49M	18.051M	28.44M	18.621M	26.58M	18.171M
5500MHz	Pass	Inf	28.62M	18.261M	25.98M	17.961M	26.4M	18.081M	27.99M	18.141M
5580MHz	Pass	Inf	28.89M	18.231M	26.04M	17.991M	26.34M	18.081M	27.93M	18.141M
5700MHz	Pass	Inf	24.3M	17.961M	25.44M	18.111M	23.7M	17.841M	24.6M	17.931M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	19.32M	14.093M	18.255M	14.078M	17.94M	14.123M	17.97M	14.048M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.9M	5.197M	3.88M	5.117M	3.88M	5.197M	3.9M	5.177M
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	53.28M	37.181M	51.12M	36.942M	54.36M	37.001M	52.2M	36.702M
5310MHz	Pass	Inf	52.68M	37.121M	51.12M	36.942M	54.12M	37.001M	52.26M	36.642M
5510MHz	Pass	Inf	53.94M	37.301M	52.14M	36.642M	50.88M	36.582M	49.44M	36.522M
5550MHz	Pass	Inf	53.7M	37.181M	51.42M	36.822M	54.48M	37.121M	52.2M	36.882M
5670MHz	Pass	Inf	54.54M	37.181M	51.3M	36.762M	54.18M	37.061M	53.1M	36.822M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	43.54M	33.338M	41.615M	33.128M	40.495M	33.093M	39.76M	33.023M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.26M	4.998M	3.26M	5.217M	3.24M	5.077M	3.24M	4.918M
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	94.44M	76.282M	93.48M	76.282M	94.92M	76.282M	93.12M	76.162M
5530MHz	Pass	Inf	94.56M	76.282M	93.48M	76.282M	94.56M	76.162M	93.6M	76.042M
5610MHz	Pass	Inf	94.8M	76.282M	93.72M	76.282M	95.16M	76.282M	93.36M	76.162M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	82.5M	72.864M	82.425M	72.789M	82.575M	72.714M	81.9M	72.714M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.26M	5.317M	3.26M	5.637M	3.26M	5.397M	3.26M	5.157M
802.11ac VHT160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	88.24M	77.081M	88.16M	76.922M	88.56M	77.161M	87.52M	76.682M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	87.6M	76.682M	87.36M	77.001M	88.56M	77.401M	86.64M	76.602M
5570MHz	Pass	Inf	174.72M	155.202M	174.24M	154.963M	176.4M	155.202M	173.52M	155.202M
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	22.08M	18.951M	21.36M	18.981M	22.41M	19.01M	21.45M	19.01M
5300MHz	Pass	Inf	22.62M	19.01M	21.51M	19.07M	20.67M	18.951M	22.56M	19.07M
5320MHz	Pass	Inf	23.19M	19.1M	20.97M	18.981M	23.22M	19.01M	22.56M	19.04M
5500MHz	Pass	Inf	22.53M	19.01M	21.78M	19.04M	21.27M	18.981M	21.57M	18.981M
5580MHz	Pass	Inf	22.05M	19.01M	21.69M	19.13M	22.62M	18.981M	23.04M	19.04M
5700MHz	Pass	Inf	21.69M	19.01M	22.47M	19.1M	23.13M	19.1M	22.89M	18.981M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.733M	14.448M	15.138M	14.465M	16.45M	14.465M	14.84M	14.413M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.47M	4.918M	4.53M	4.738M	4.53M	4.693M	4.5M	4.963M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	41.88M	37.901M	44.22M	38.201M	42.12M	38.021M	42.9M	38.261M
5310MHz	Pass	Inf	42.36M	37.901M	44.28M	38.201M	41.94M	38.021M	42.54M	38.201M
5510MHz	Pass	Inf	43.2M	37.901M	43.26M	38.261M	40.38M	37.961M	43.44M	38.141M
5550MHz	Pass	Inf	42.66M	37.961M	43.56M	38.141M	40.68M	37.901M	42.54M	38.081M
5670MHz	Pass	Inf	42.54M	37.841M	45.36M	38.441M	40.8M	37.841M	41.94M	37.901M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.4M	33.771M	38.025M	33.808M	35.363M	33.733M	35.738M	33.733M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.065M	4.468M	4.035M	4.483M	4.05M	4.153M	4.14M	4.348M



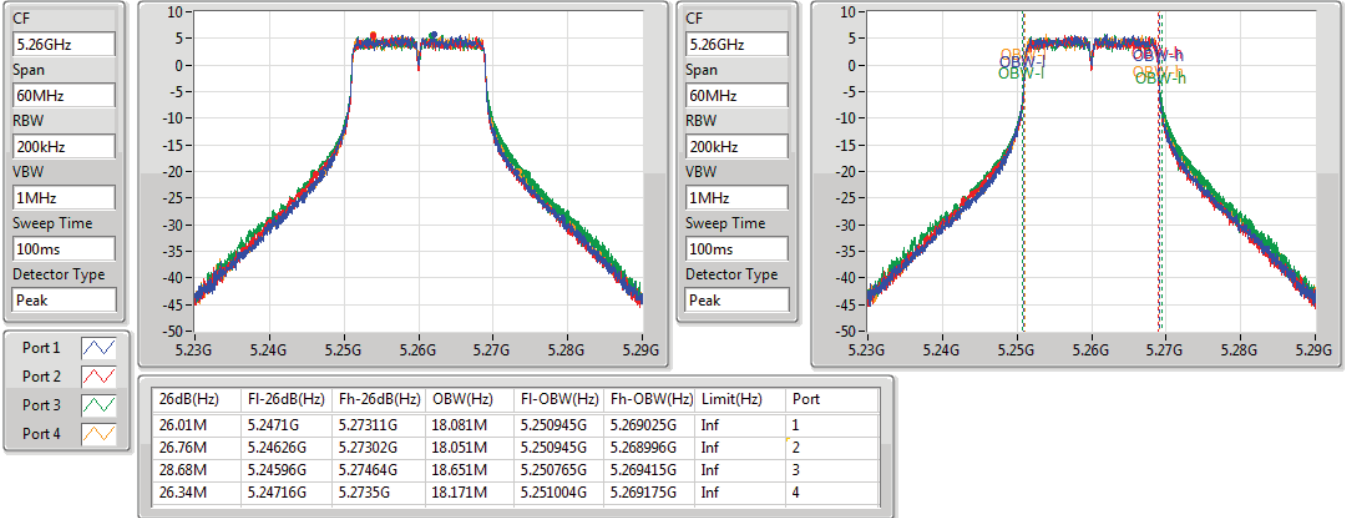
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	88.92M	77.721M	86.88M	77.841M	85.2M	77.721M	87.96M	77.961M
5530MHz	Pass	Inf	87M	77.721M	87.6M	77.961M	84.6M	77.721M	88.32M	77.841M
5610MHz	Pass	Inf	87.36M	77.721M	85.8M	77.601M	85.2M	77.841M	88.92M	77.961M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	79.275M	73.163M	79.05M	73.313M	79.125M	73.613M	79.05M	73.238M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4M	4.918M	4.02M	4.078M	4.02M	4.078M	4M	4.558M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.32M	78.201M	83.4M	78.441M	84.36M	78.681M	83.88M	78.321M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.6M	77.841M	82.2M	78.081M	83.04M	78.201M	83.16M	78.441M
5570MHz	Pass	Inf	165.36M	156.642M	167.28M	156.402M	168.48M	156.642M	167.52M	156.402M

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

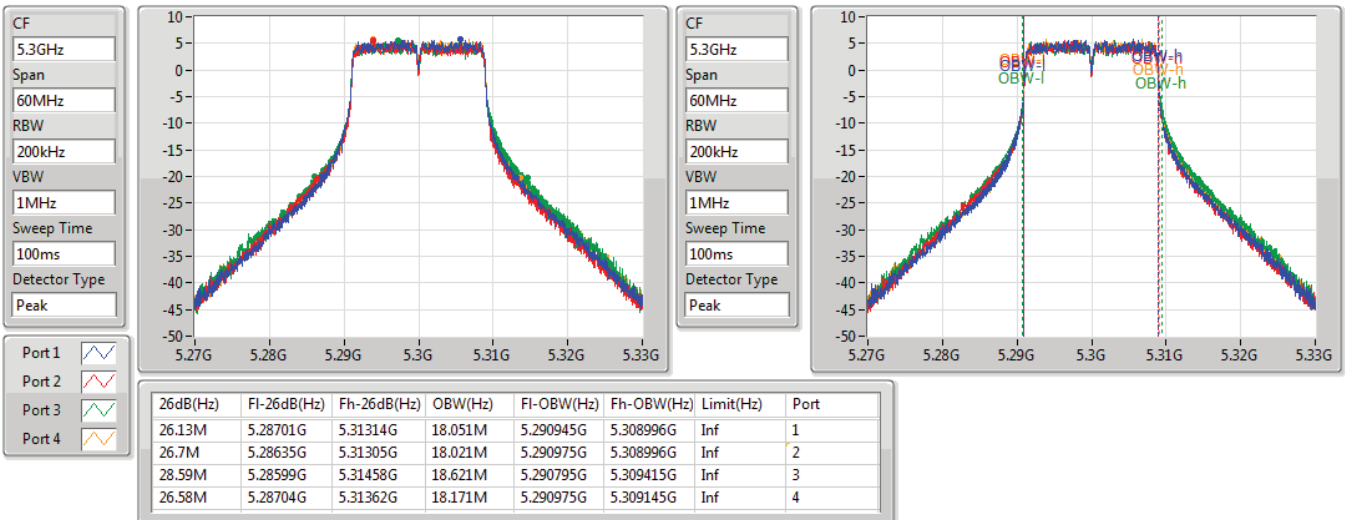
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20_Nss4,(MCS0)_4TX
EBW
5260MHz

17/12/2019

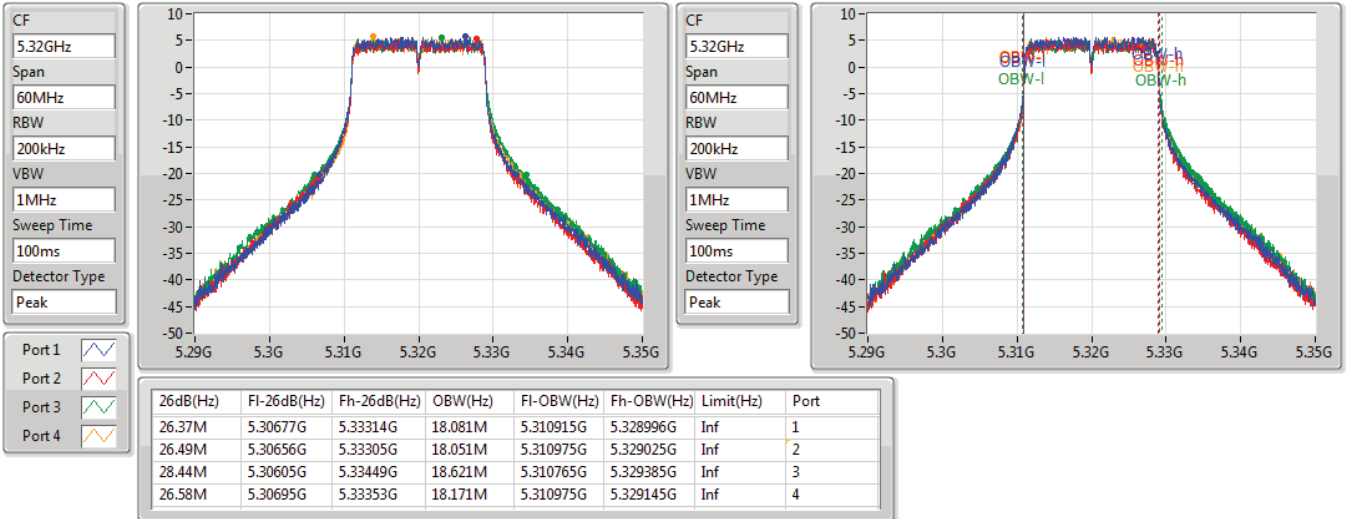

802.11ac VHT20_Nss4,(MCS0)_4TX
EBW
5300MHz

17/12/2019

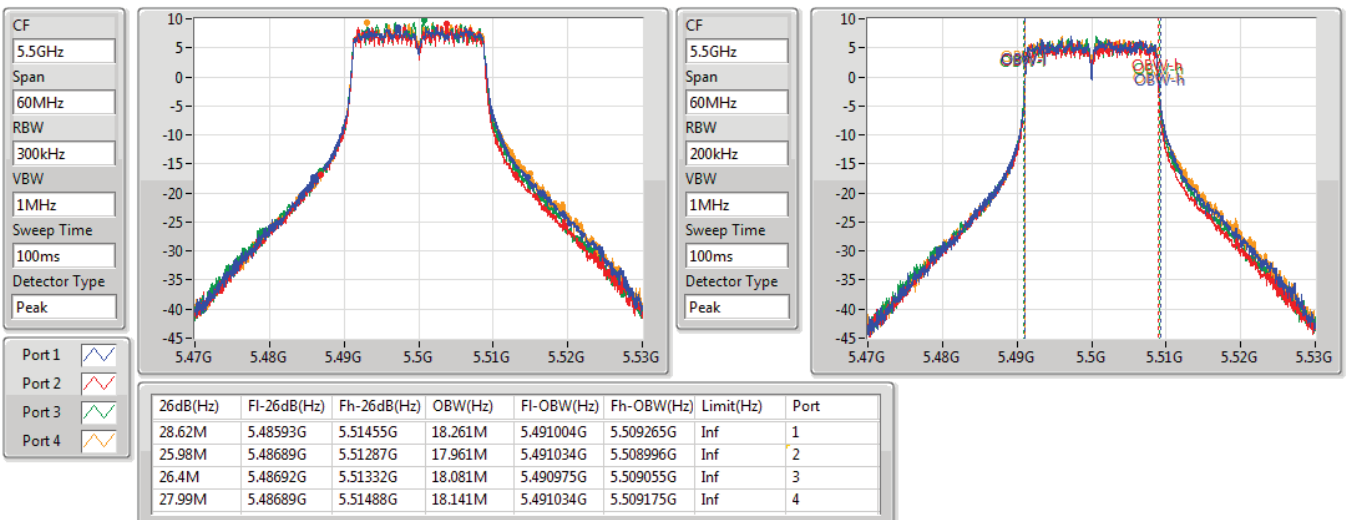


802.11ac VHT20_Nss4,(MCS0)_4TX
EBW
5320MHz

17/12/2019


802.11ac VHT20_Nss4,(MCS0)_4TX
EBW
5500MHz

31/12/2019

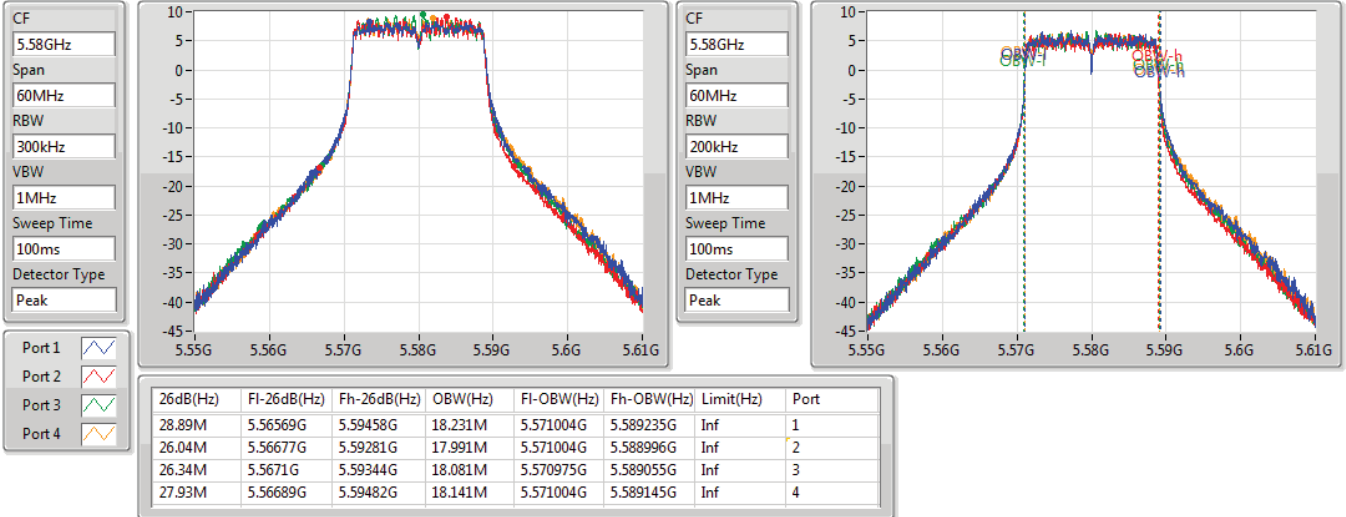


802.11ac VHT20_Nss4,(MCS0)_4TX

EBW

5580MHz

31/12/2019

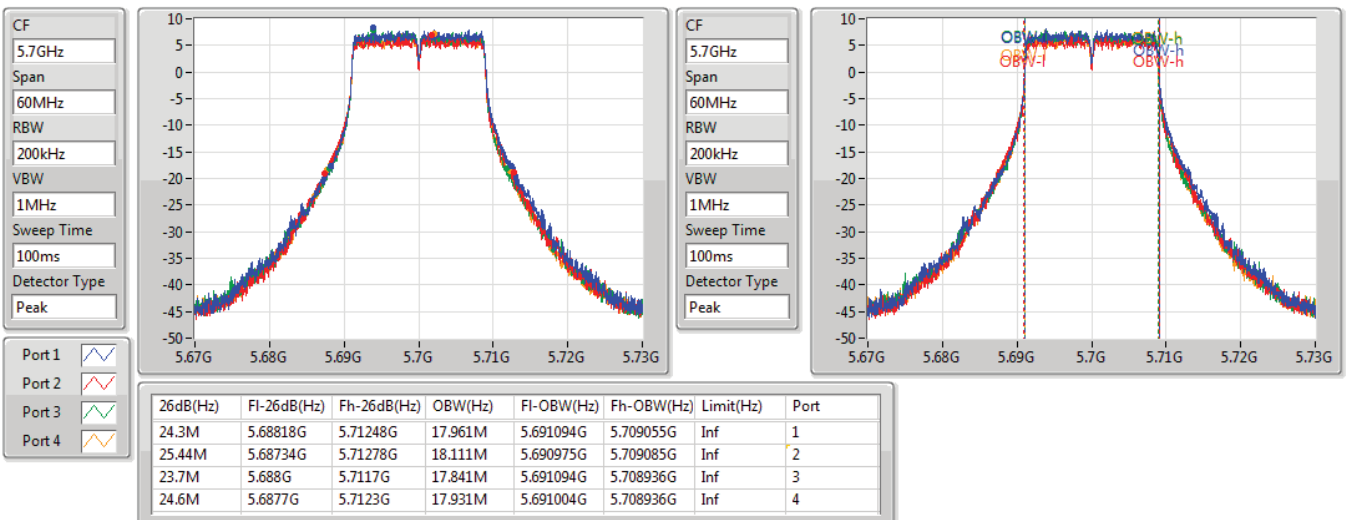


802.11ac VHT20_Nss4,(MCS0)_4TX

EBW

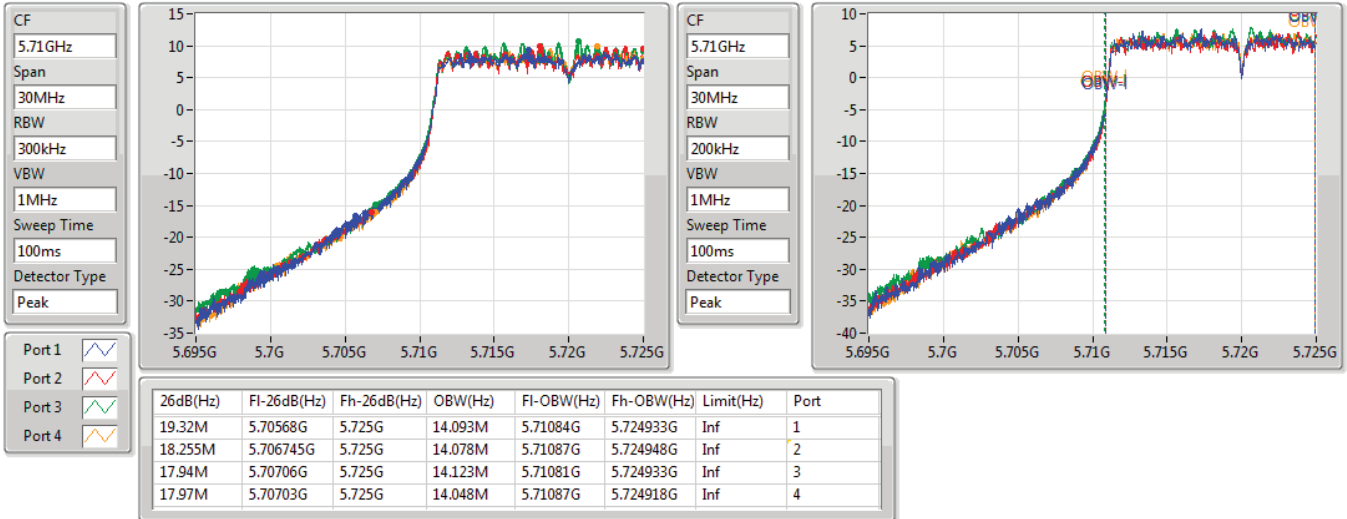
5700MHz

24/02/2020

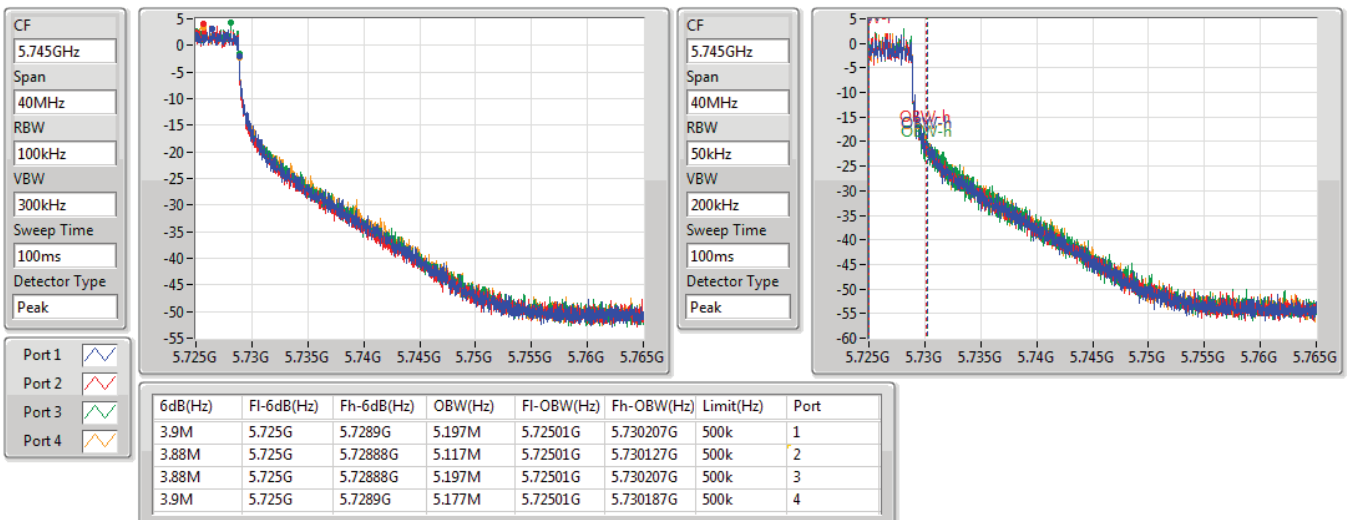


802.11ac VHT20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

31/12/2019

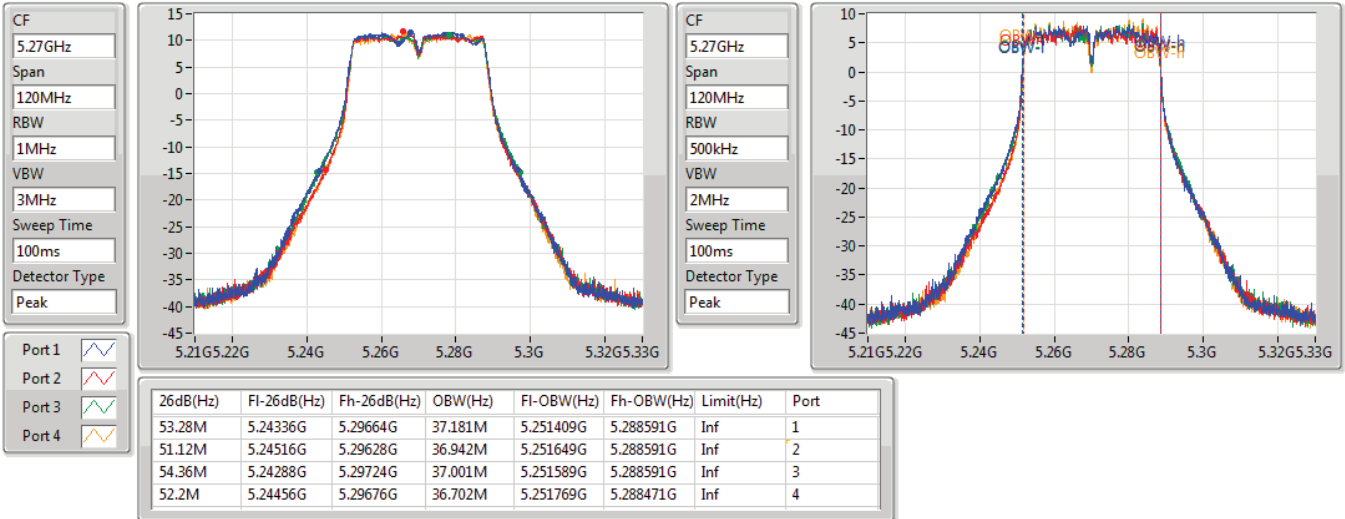

802.11ac VHT20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

31/12/2019

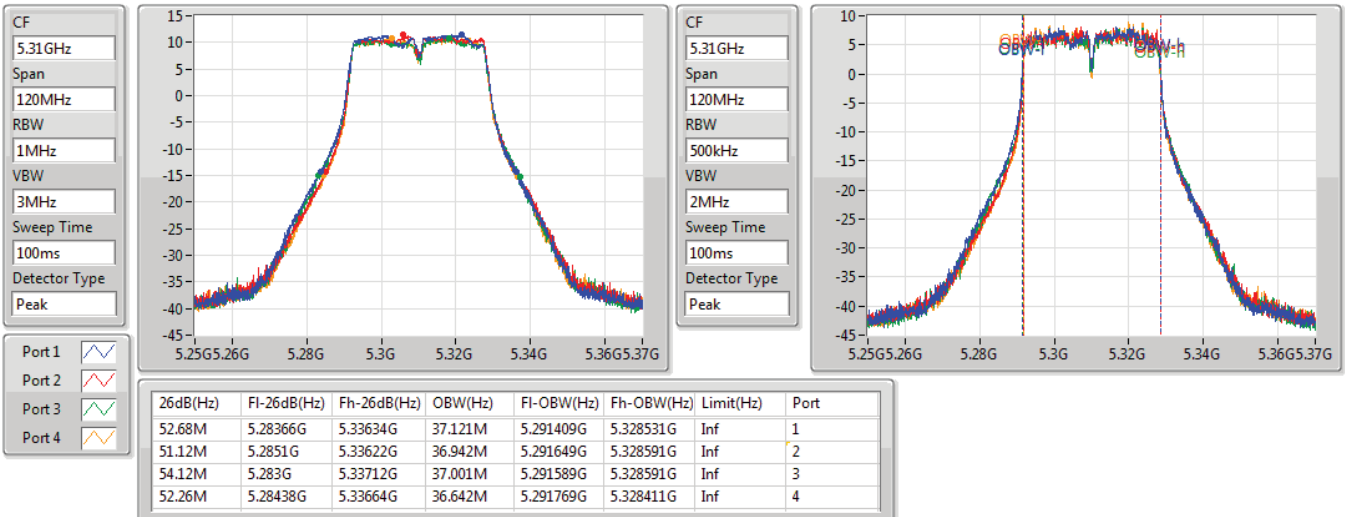


802.11ac VHT40_Nss4,(MCS0)_4TX
EBW
5270MHz

31/12/2019

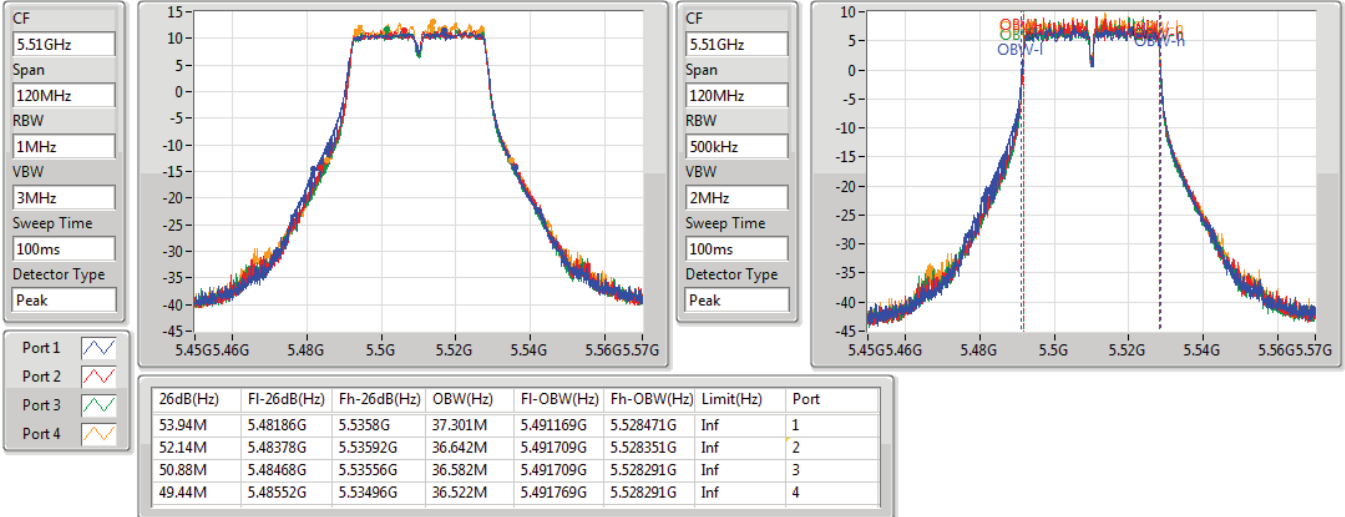

802.11ac VHT40_Nss4,(MCS0)_4TX
EBW
5310MHz

31/12/2019

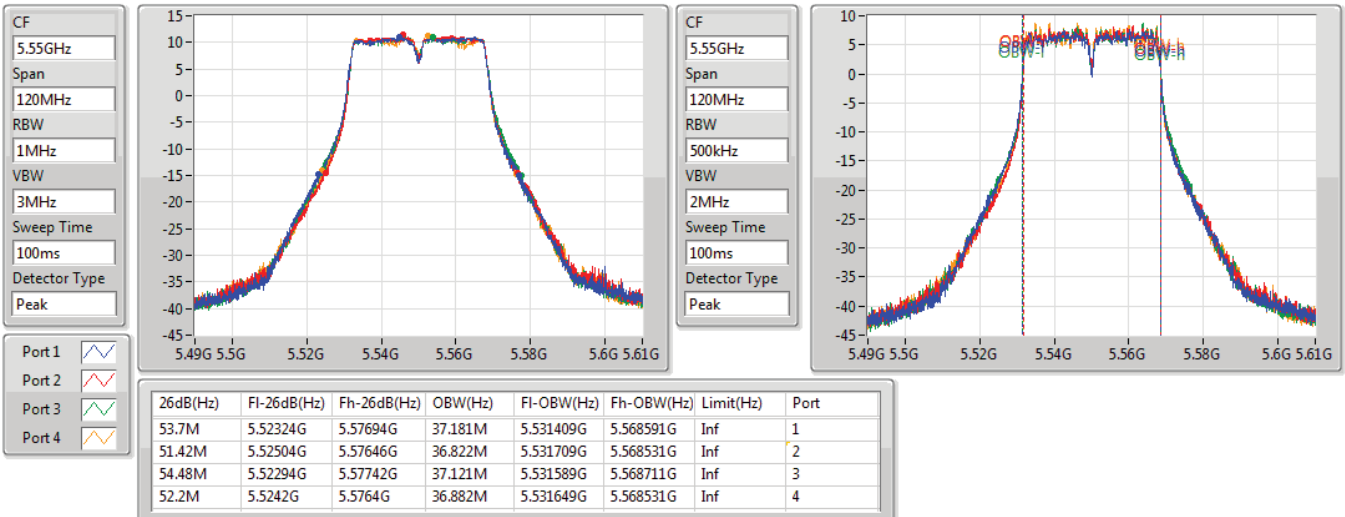


802.11ac VHT40_Nss4,(MCS0)_4TX
EBW
5510MHz

31/12/2019

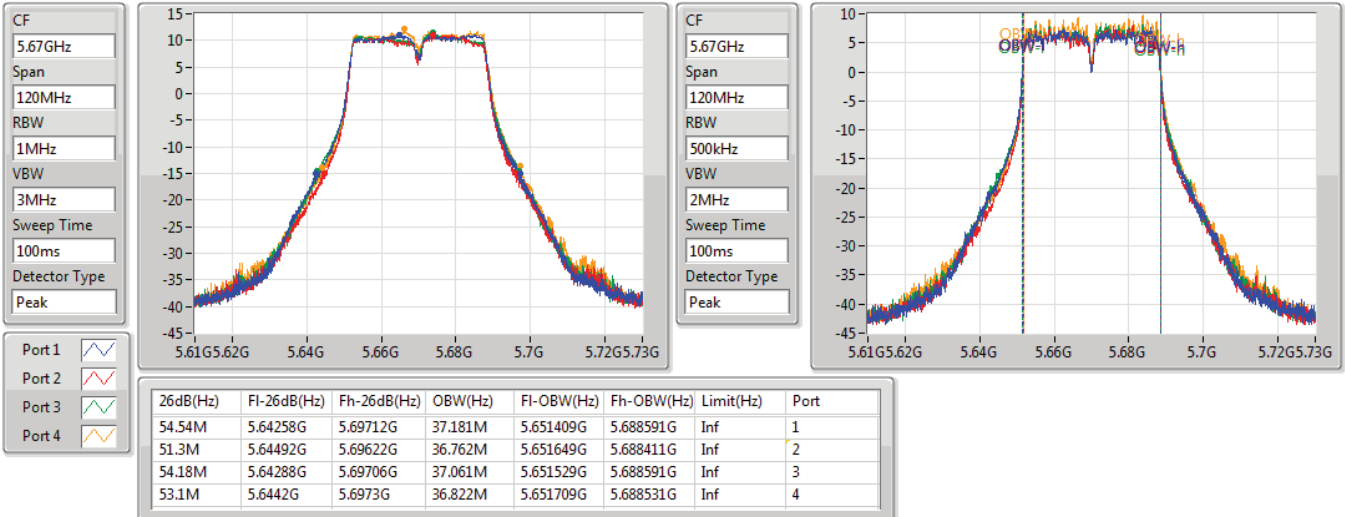

802.11ac VHT40_Nss4,(MCS0)_4TX
EBW
5550MHz

31/12/2019

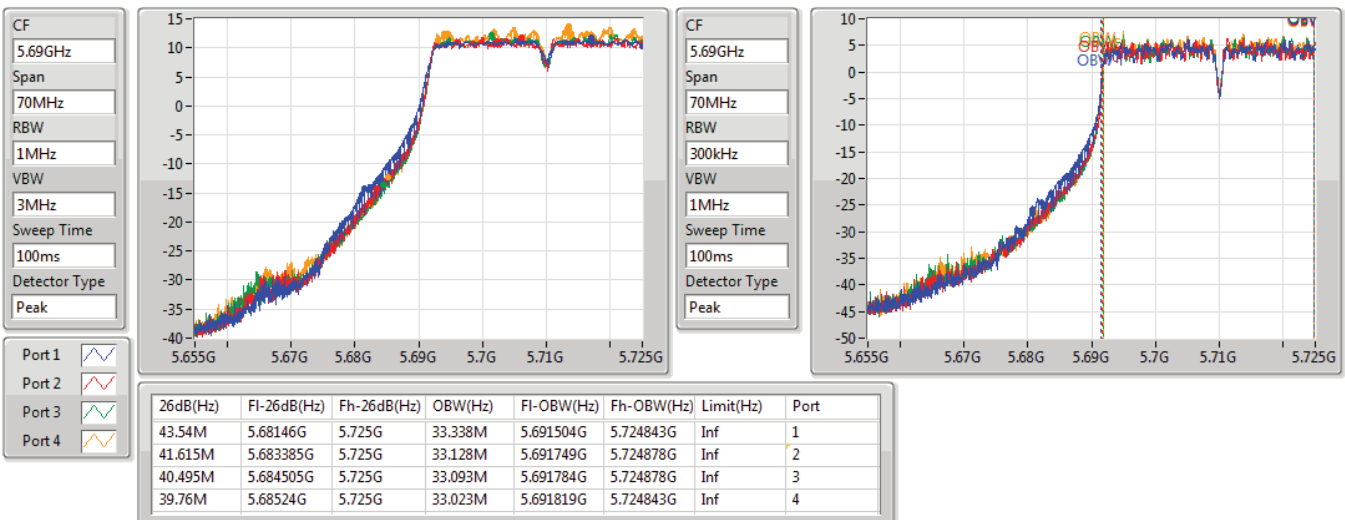


802.11ac VHT40_Nss4,(MCS0)_4TX
EBW
5670MHz

31/12/2019

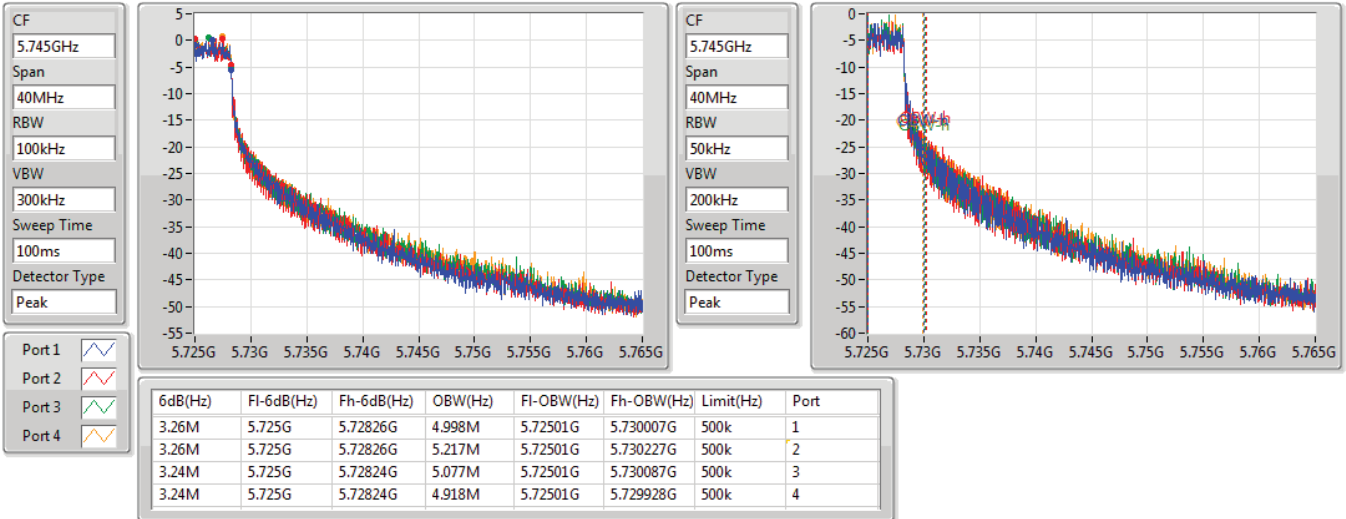

802.11ac VHT40_Nss4,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

31/12/2019

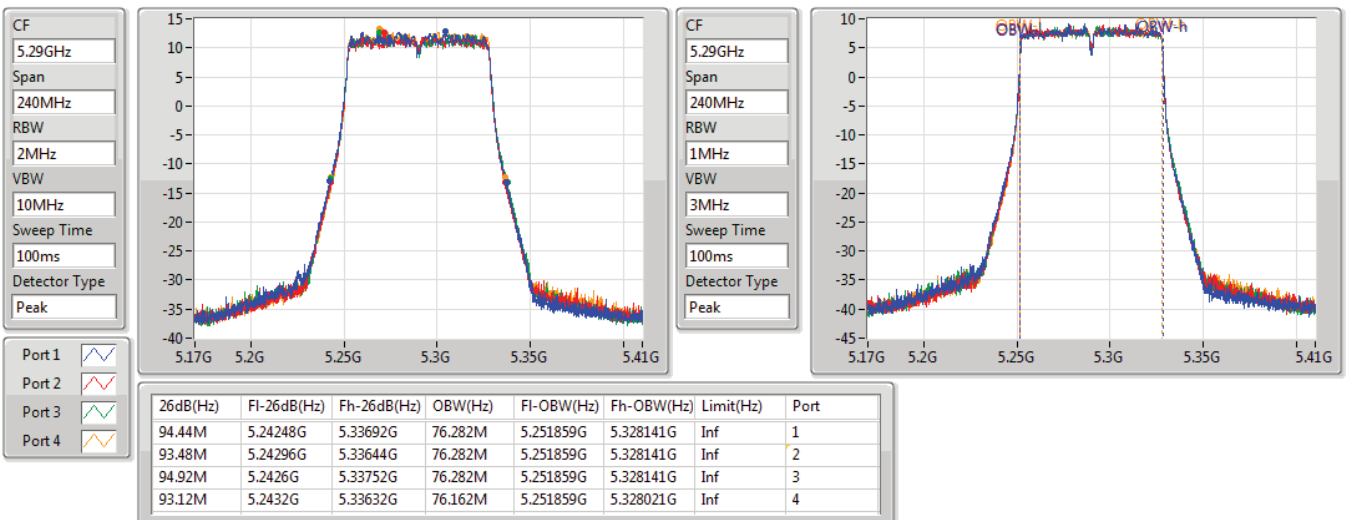


802.11ac VHT40_Nss4,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

31/12/2019


802.11ac VHT80_Nss4,(MCS0)_4TX
EBW
5290MHz

31/12/2019

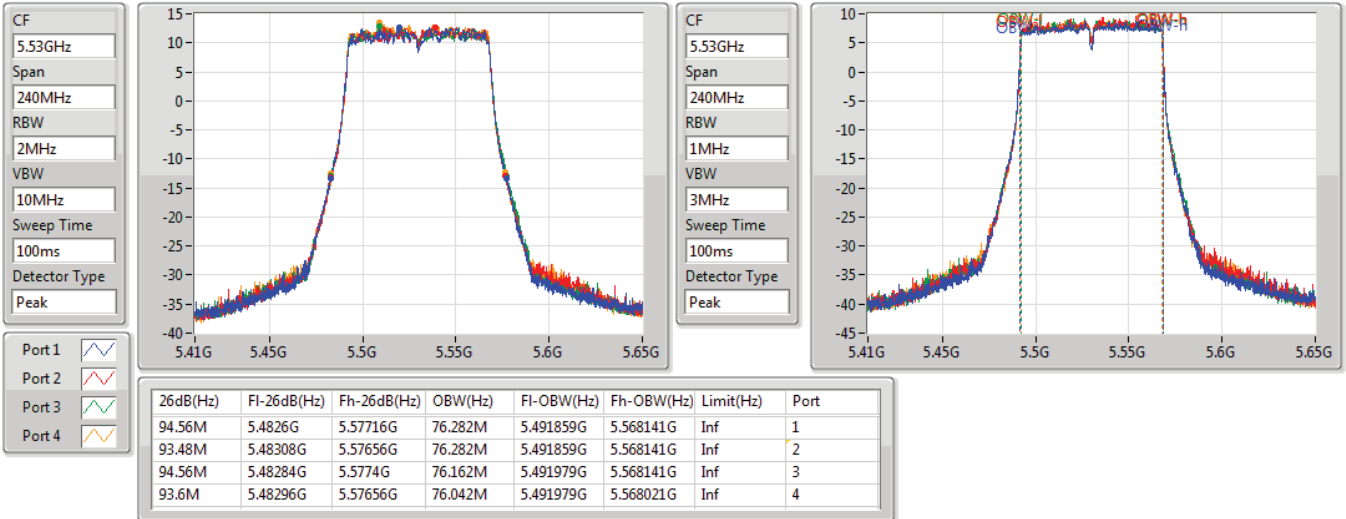


802.11ac VHT80_Nss4,(MCS0)_4TX

EBW

5530MHz

31/12/2019

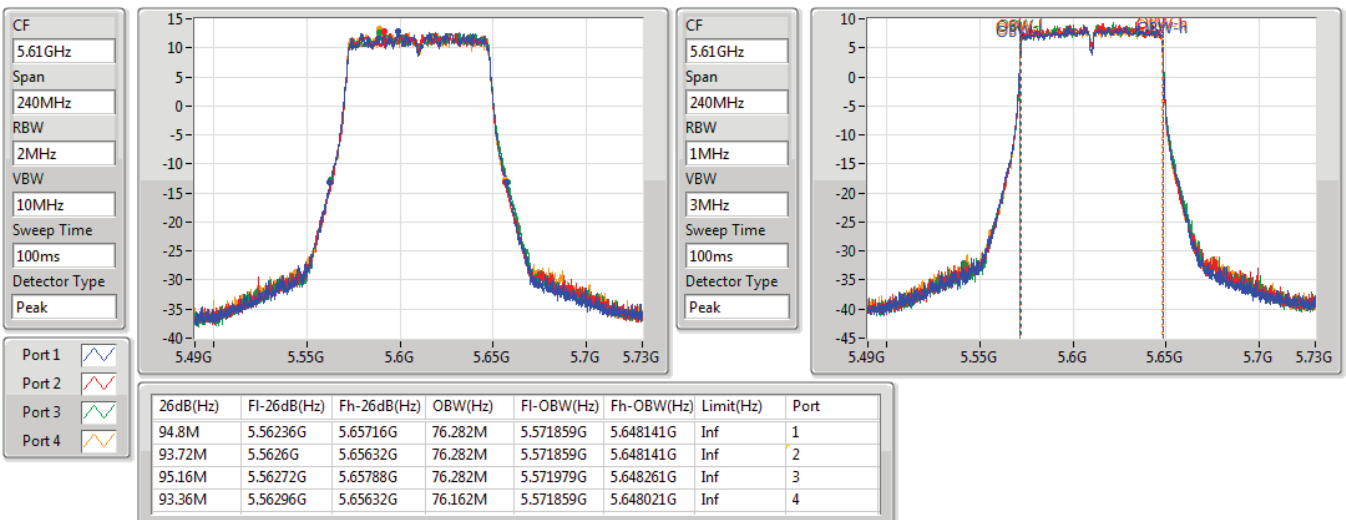


802.11ac VHT80_Nss4,(MCS0)_4TX

EBW

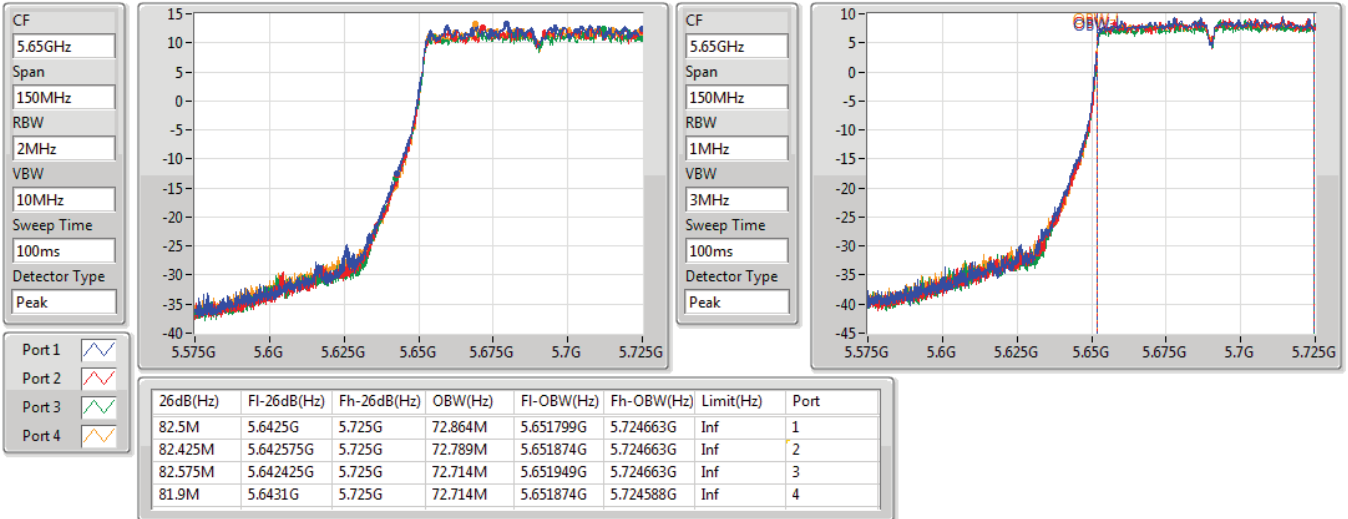
5610MHz

31/12/2019

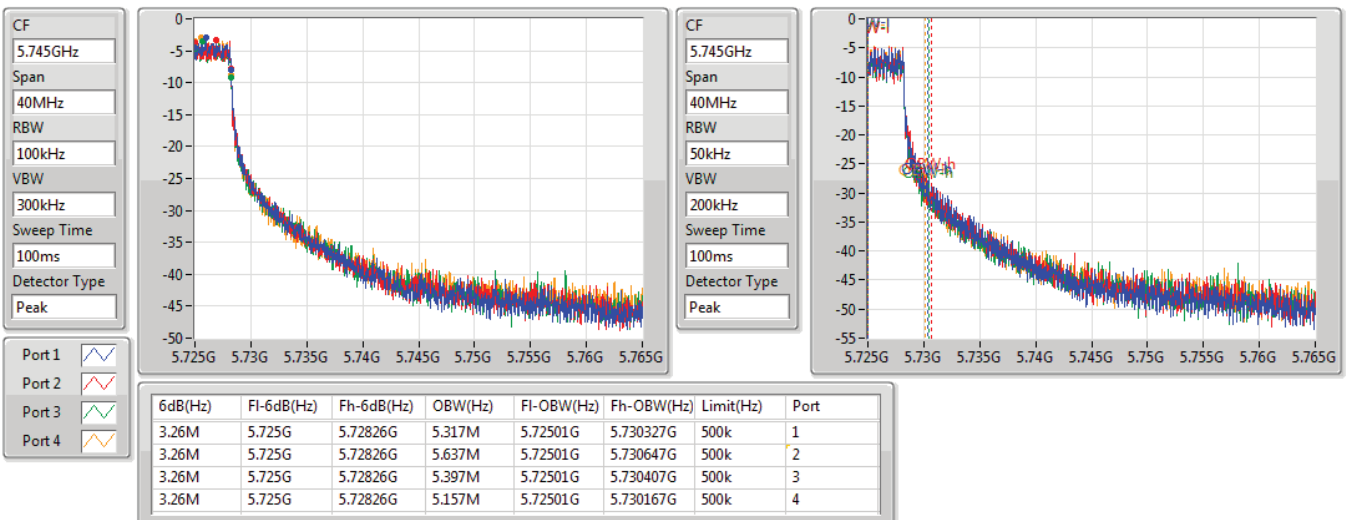


802.11ac VHT80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

31/12/2019

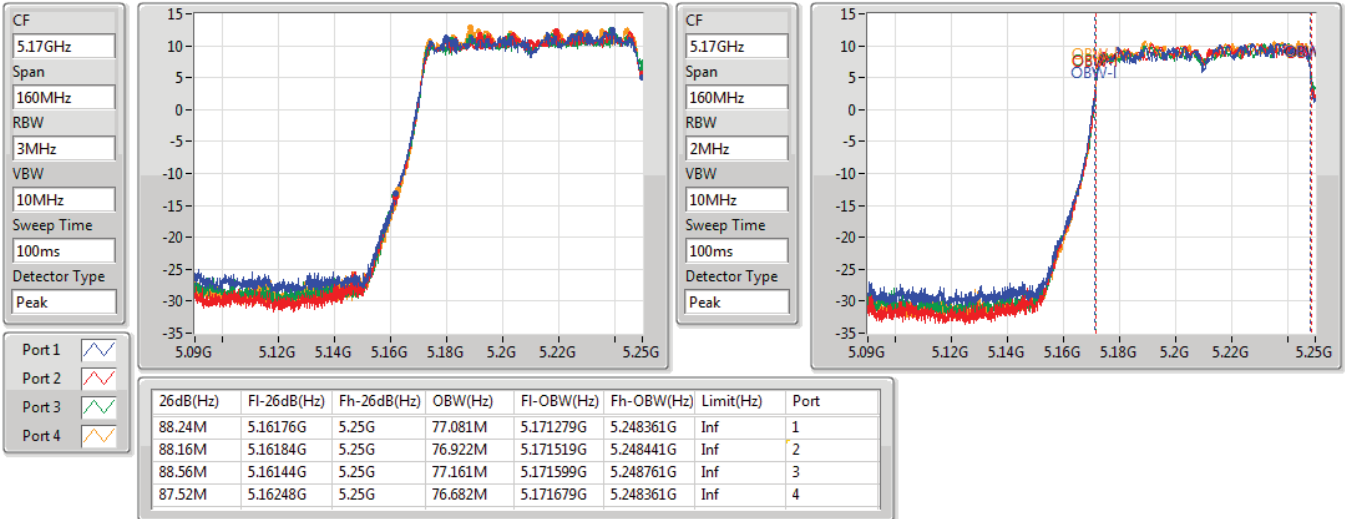

802.11ac VHT80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

31/12/2019

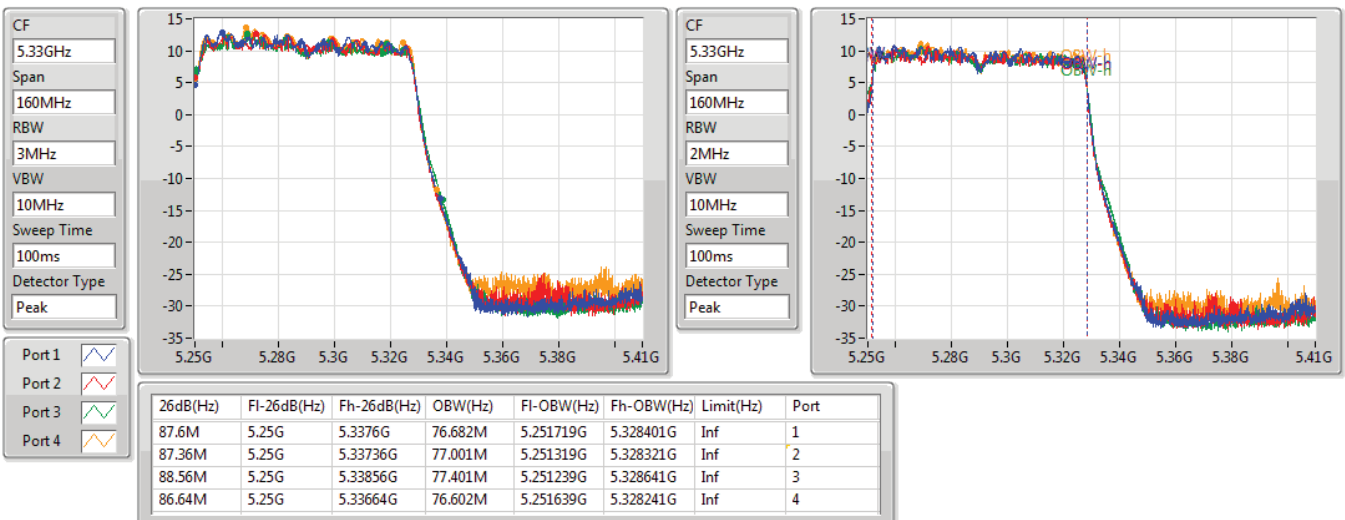


802.11ac VHT160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

31/12/2019

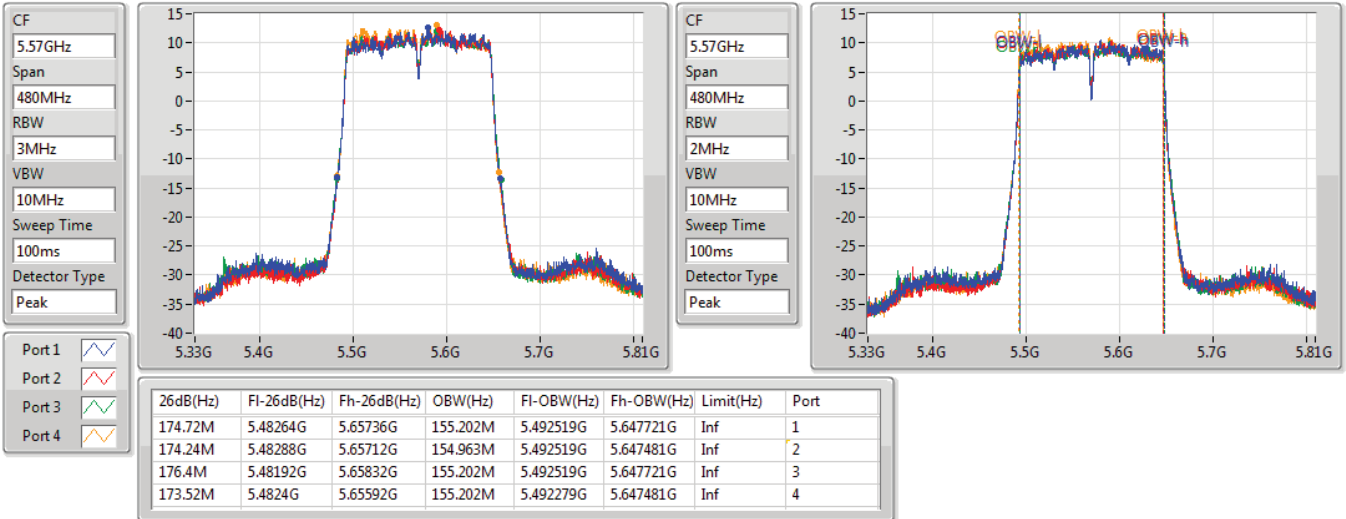

802.11ac VHT160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

31/12/2019

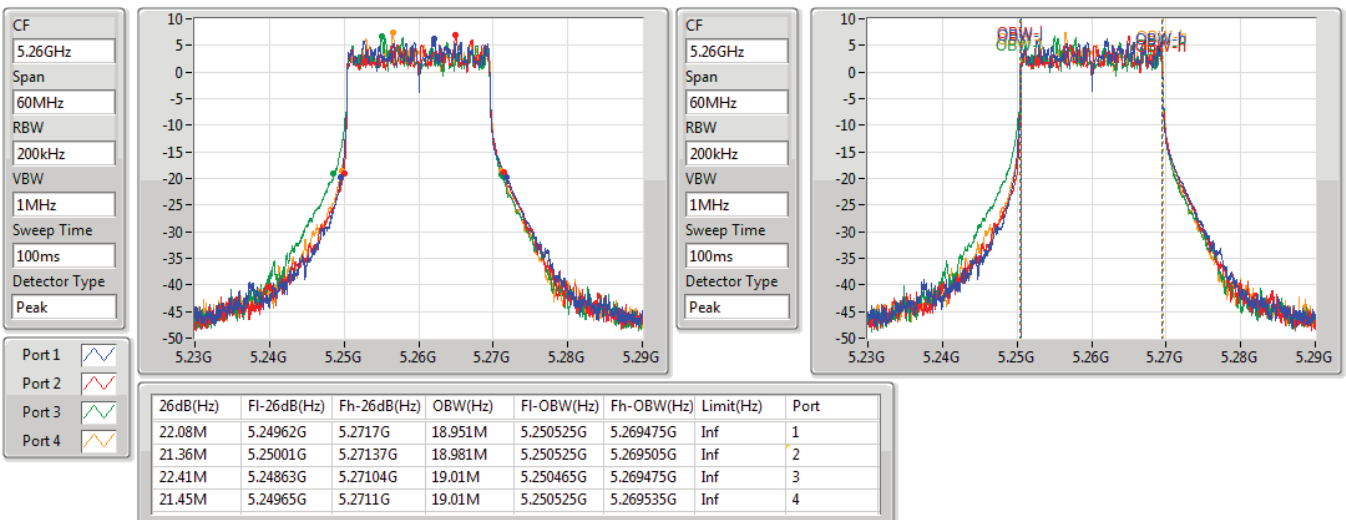


802.11ac VHT160_Nss4,(MCS0)_4TX
EBW
5570MHz

31/12/2019


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5260MHz

17/12/2019

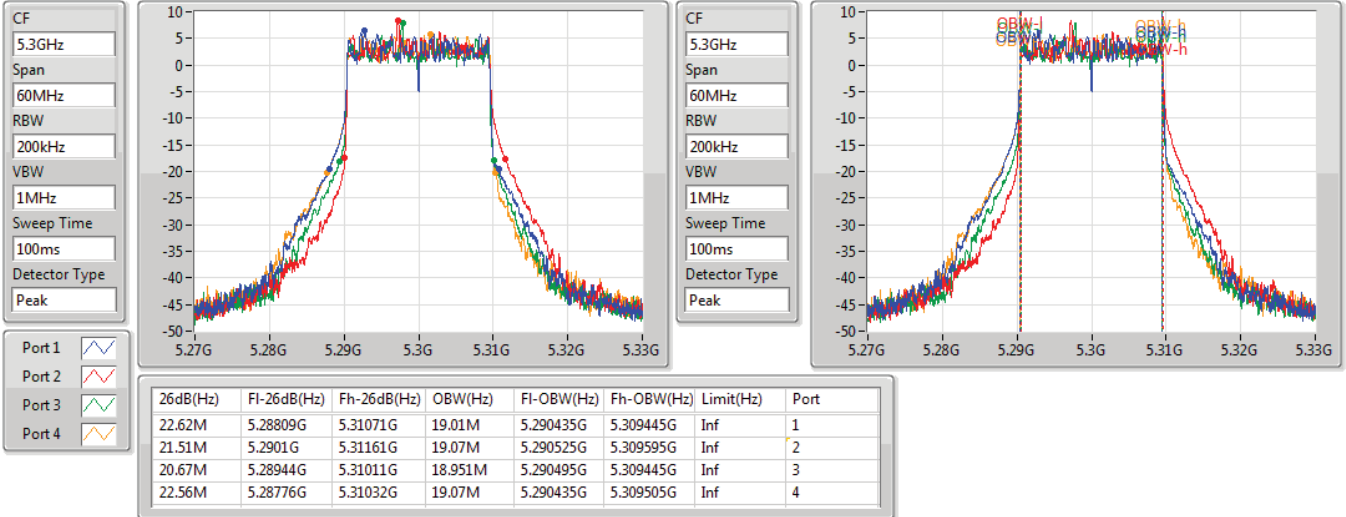


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

5300MHz

17/12/2019

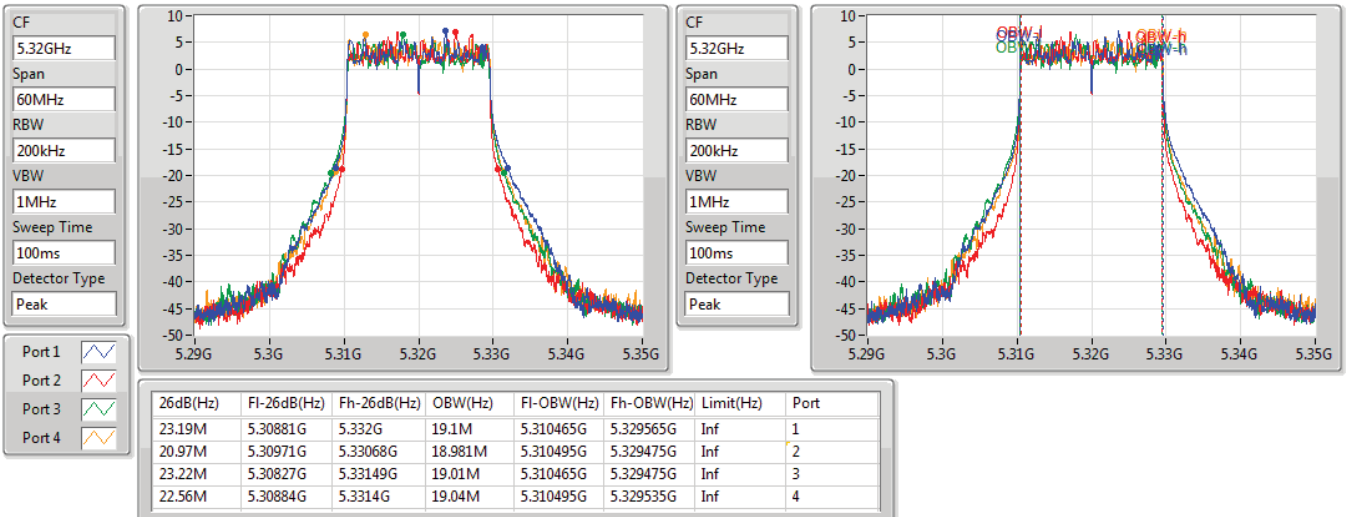


802.11ax HEW20_Nss4,(MCS0)_4TX

EBW

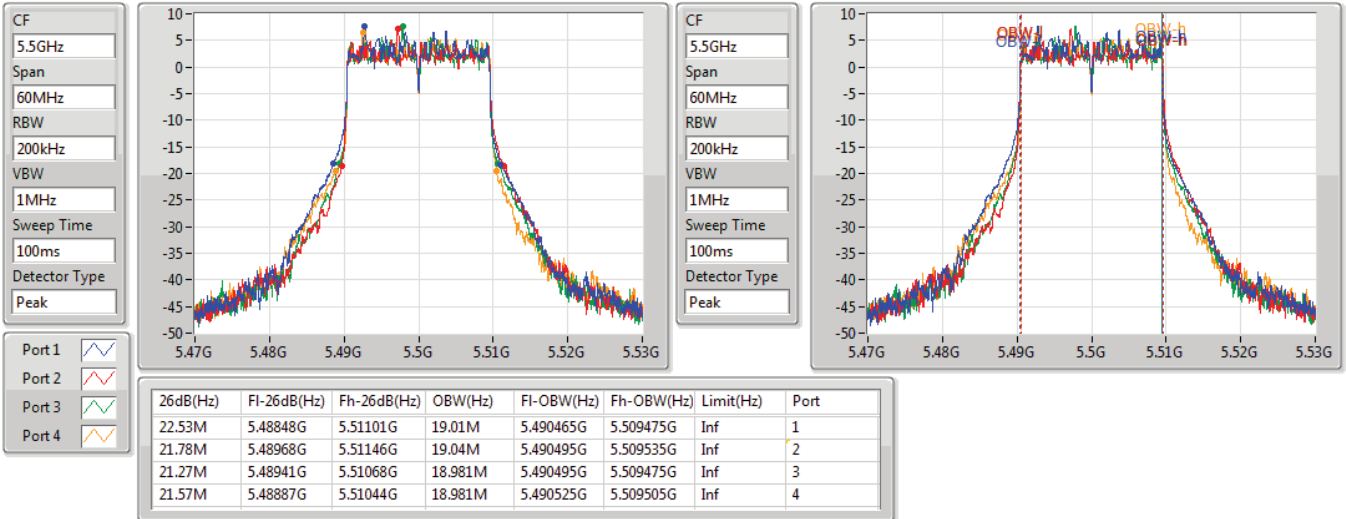
5320MHz

17/12/2019

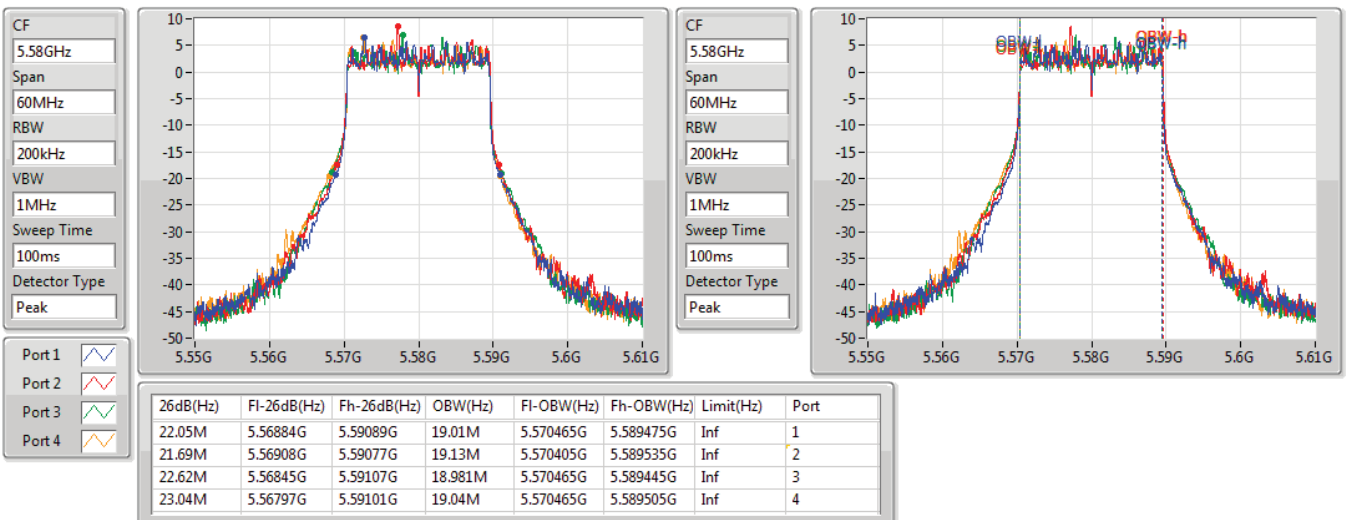


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5500MHz

17/12/2019

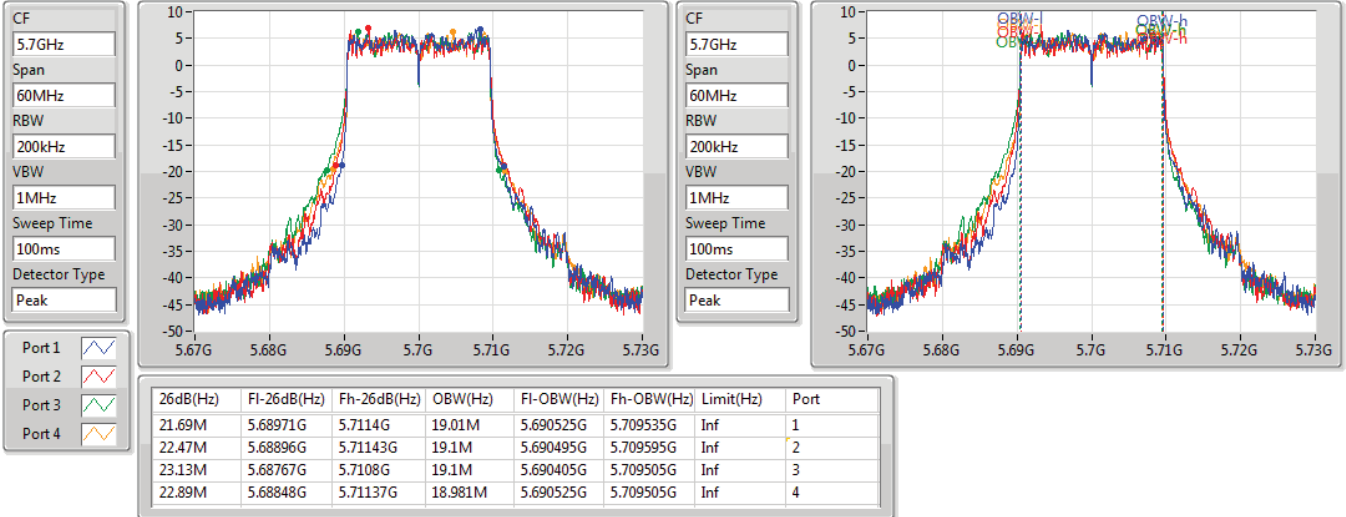

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5580MHz

17/12/2019

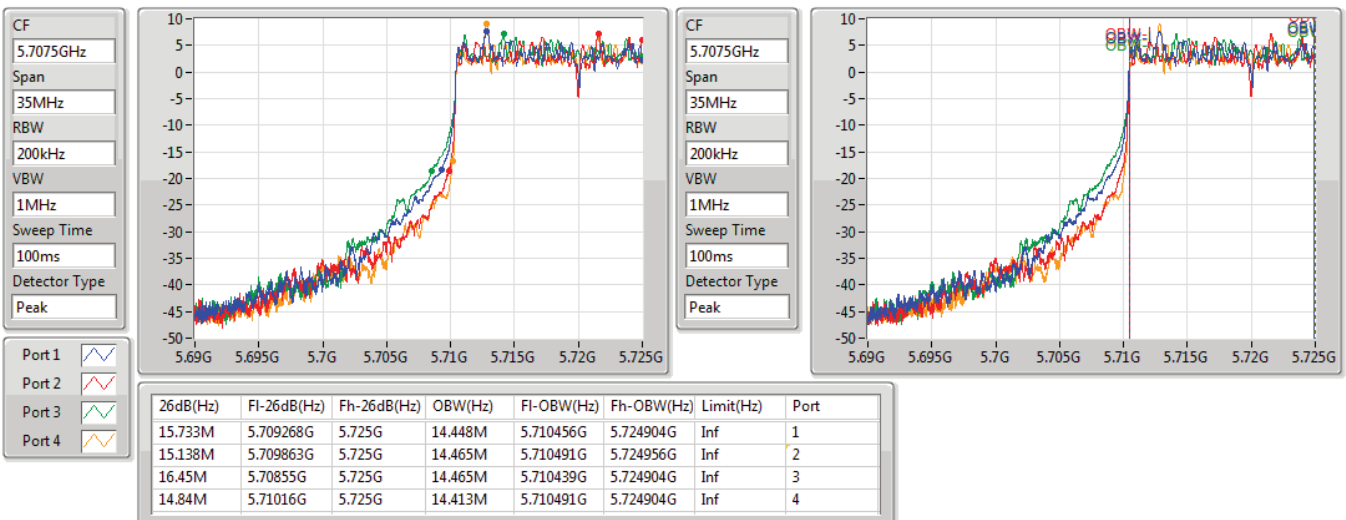


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5700MHz

24/02/2020

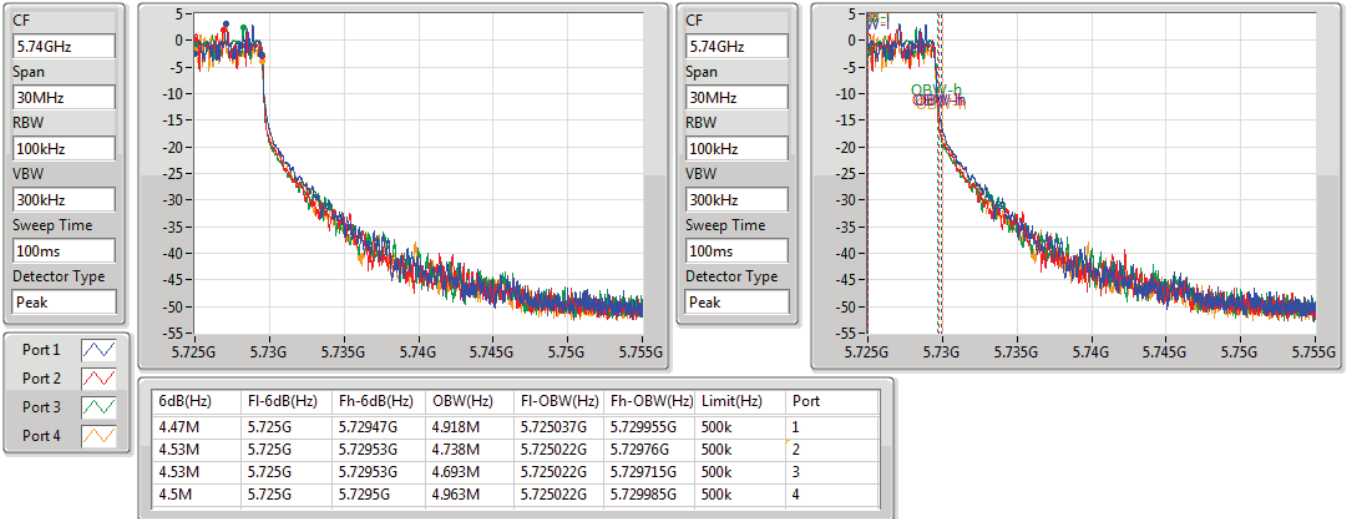

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

17/12/2019

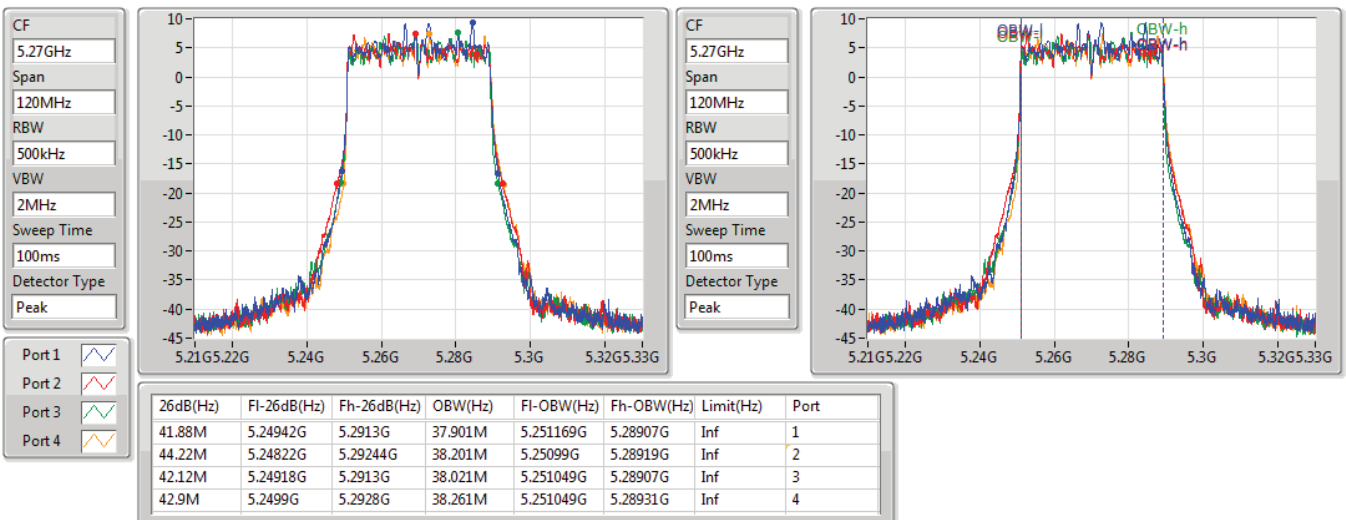


802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

17/12/2019

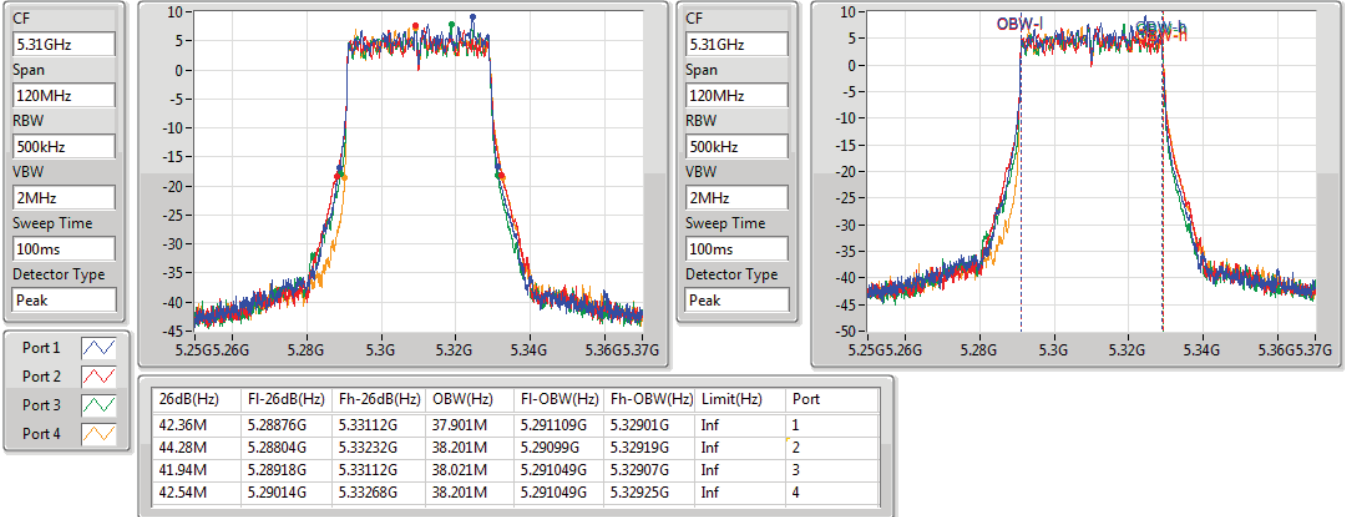

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5270MHz

20/12/2019

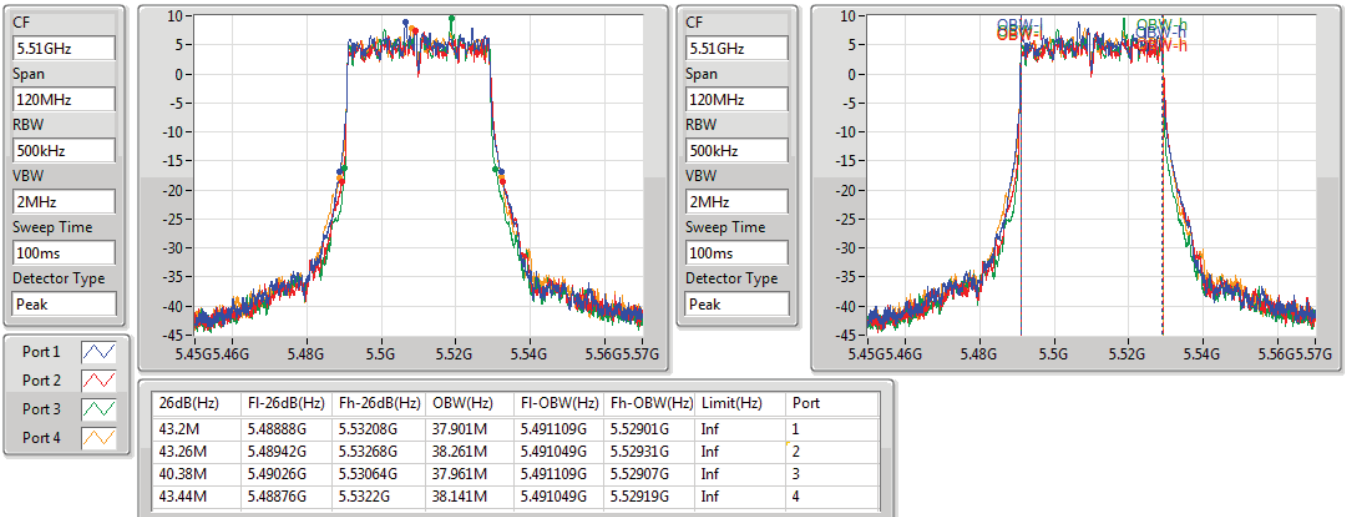


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5310MHz

20/12/2019

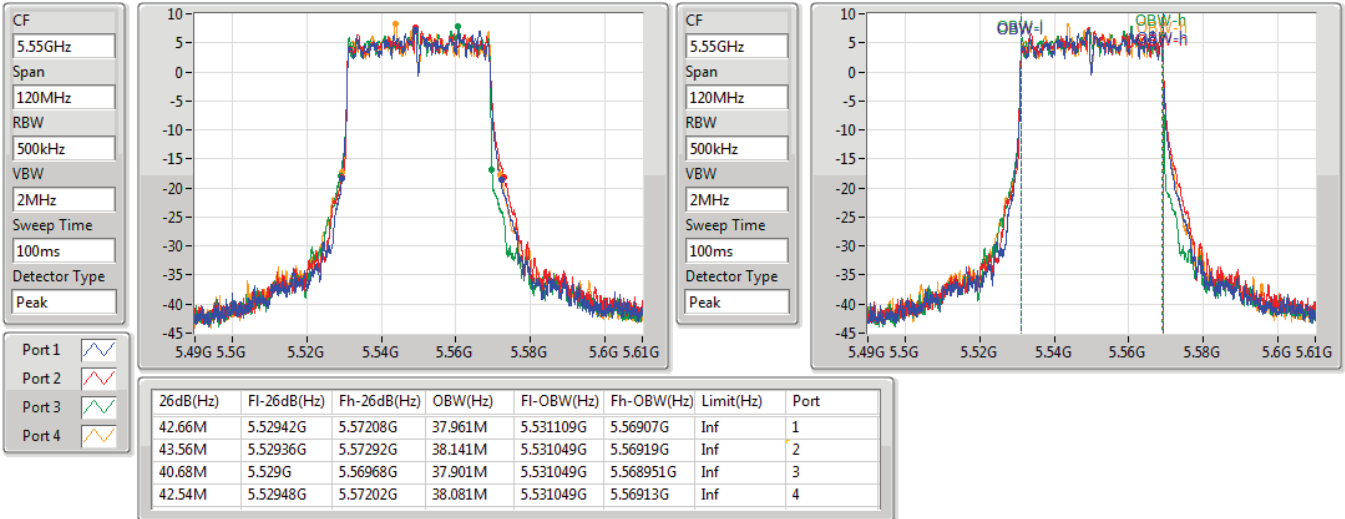

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5510MHz

20/12/2019

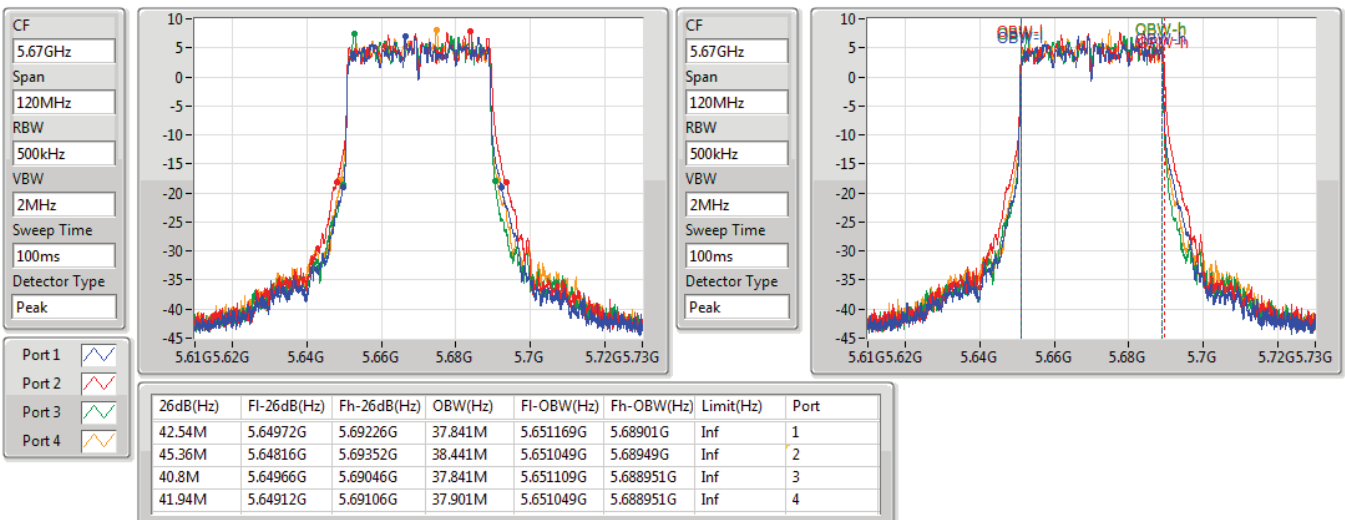


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5550MHz

20/12/2019

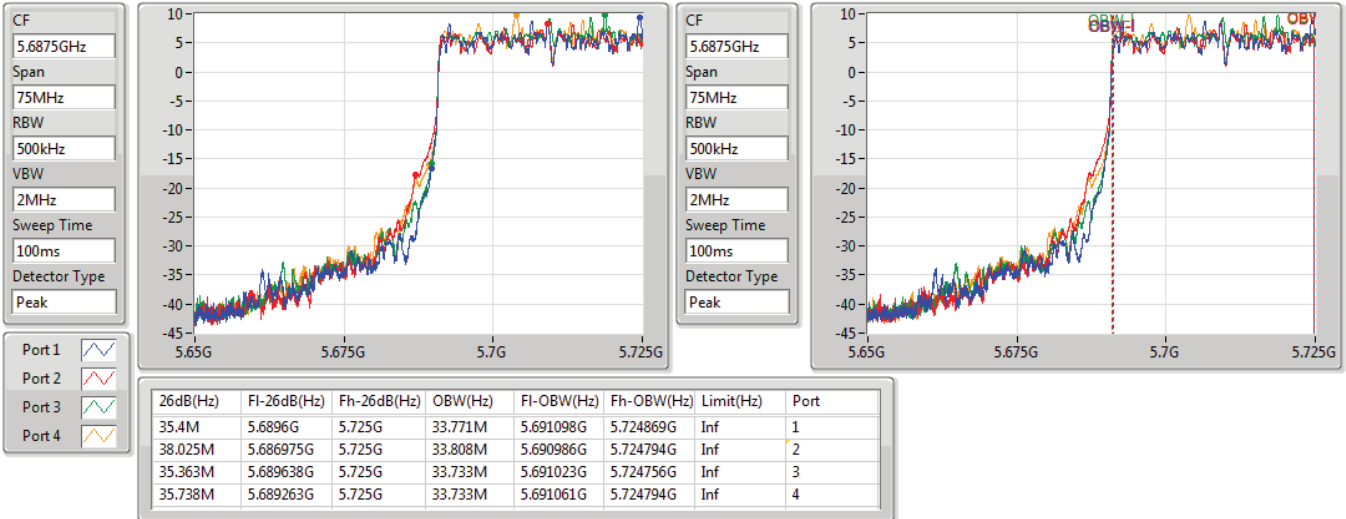

802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5670MHz

20/12/2019

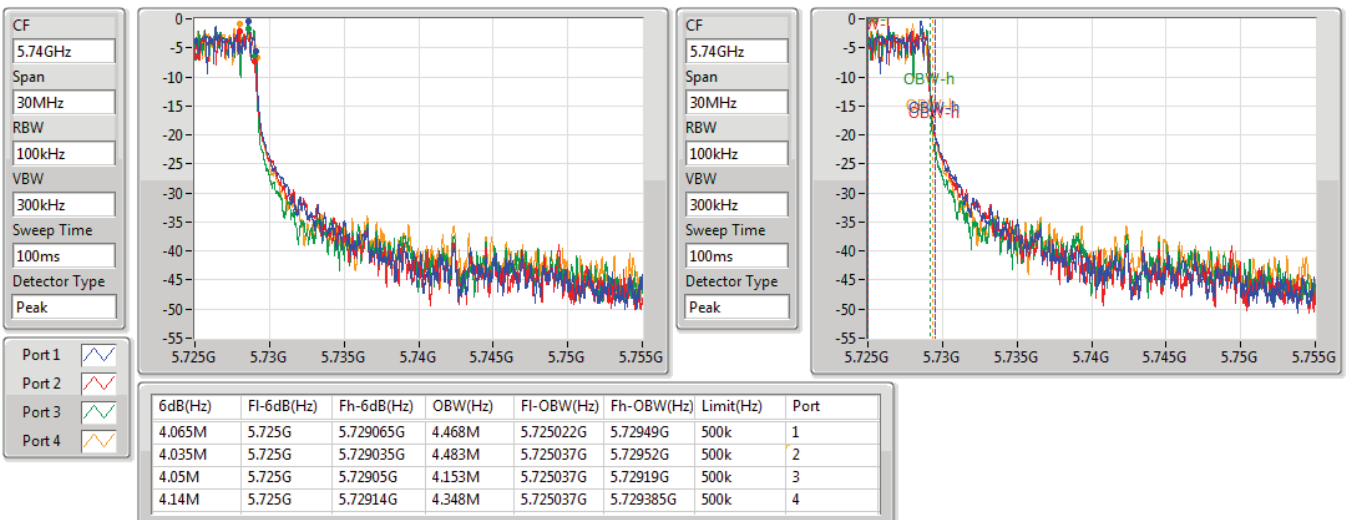


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

20/12/2019


802.11ax HEW40_Nss4,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

20/12/2019



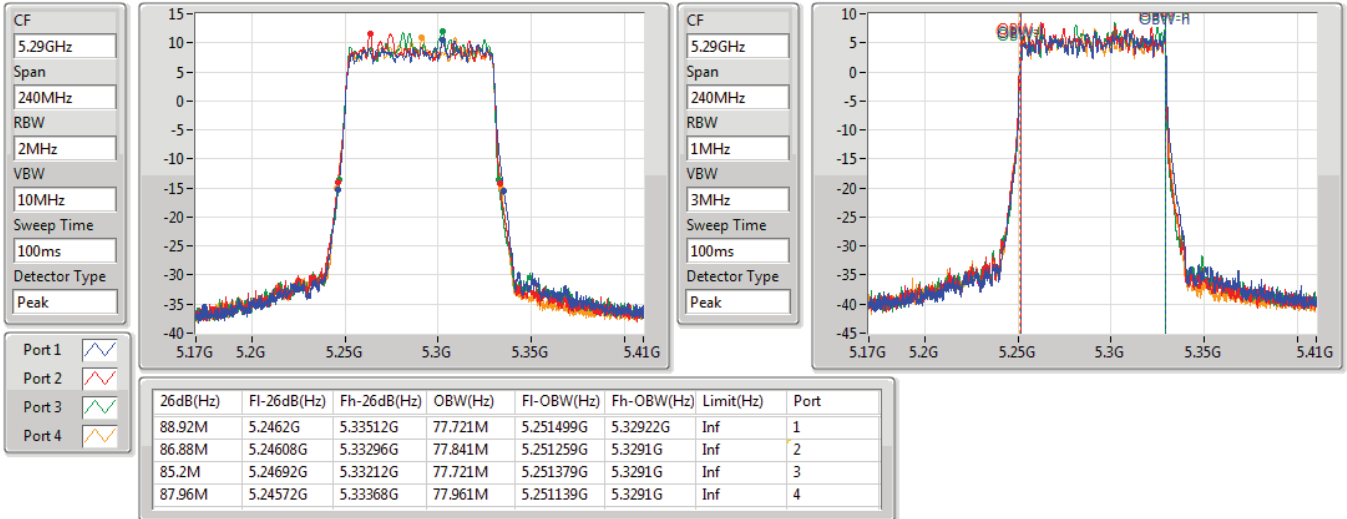


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

5290MHz

08/01/2020

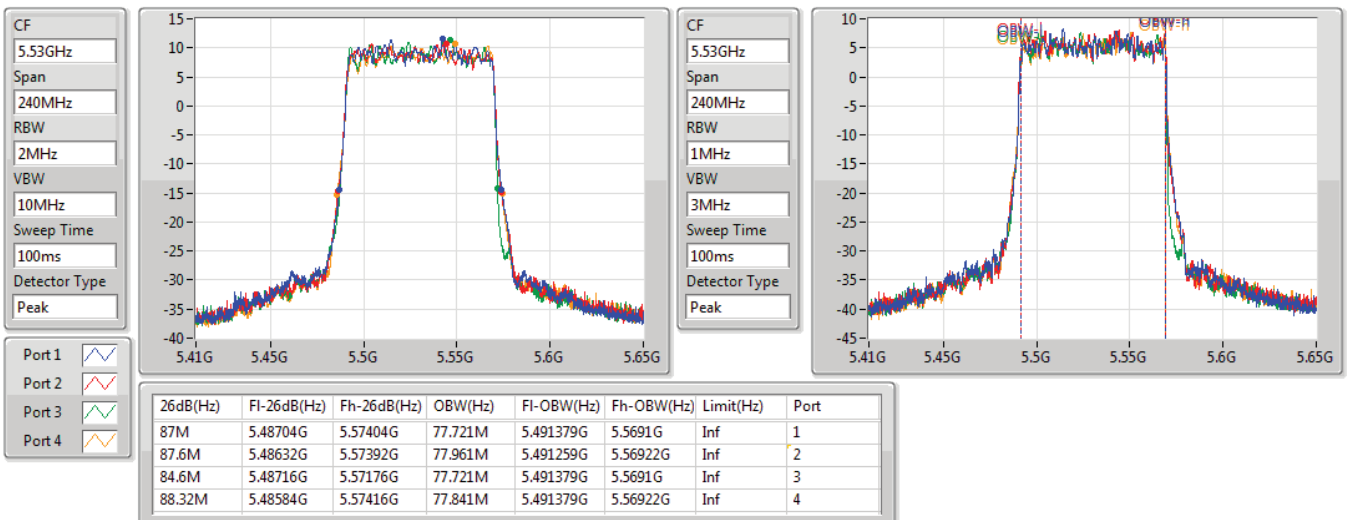


802.11ax HEW80_Nss4,(MCS0)_4TX

EBW

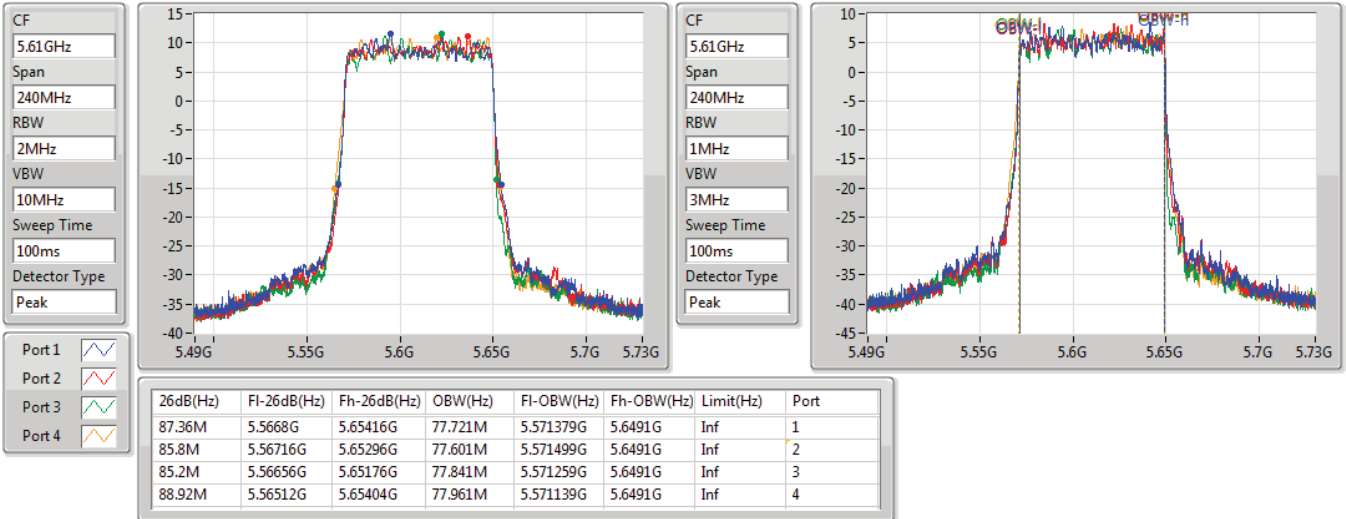
5530MHz

08/01/2020

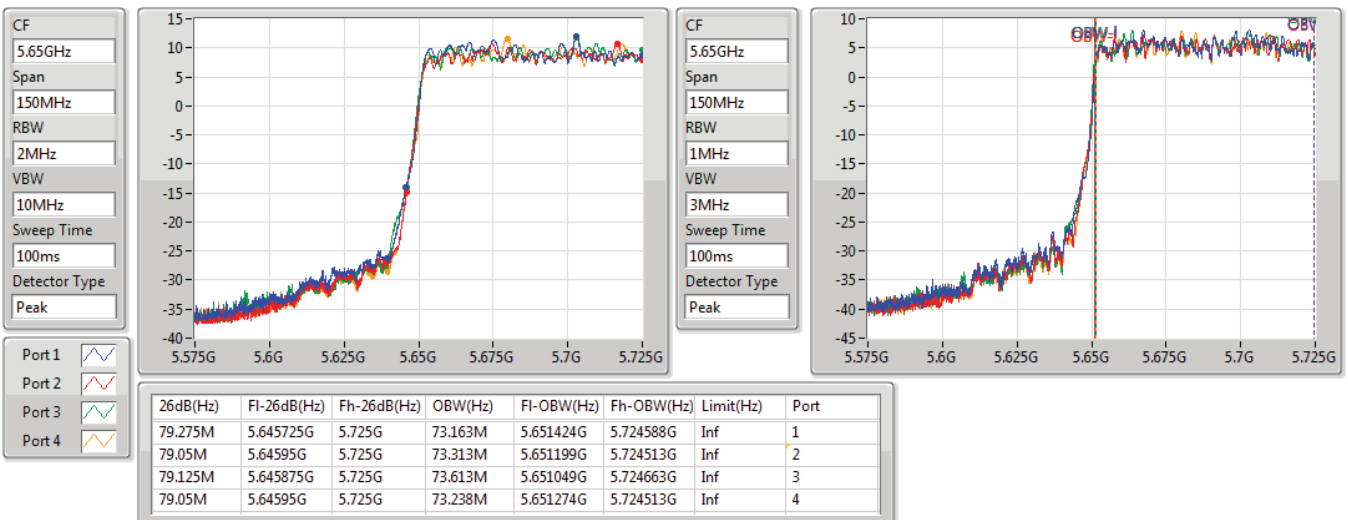


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5610MHz

24/12/2019

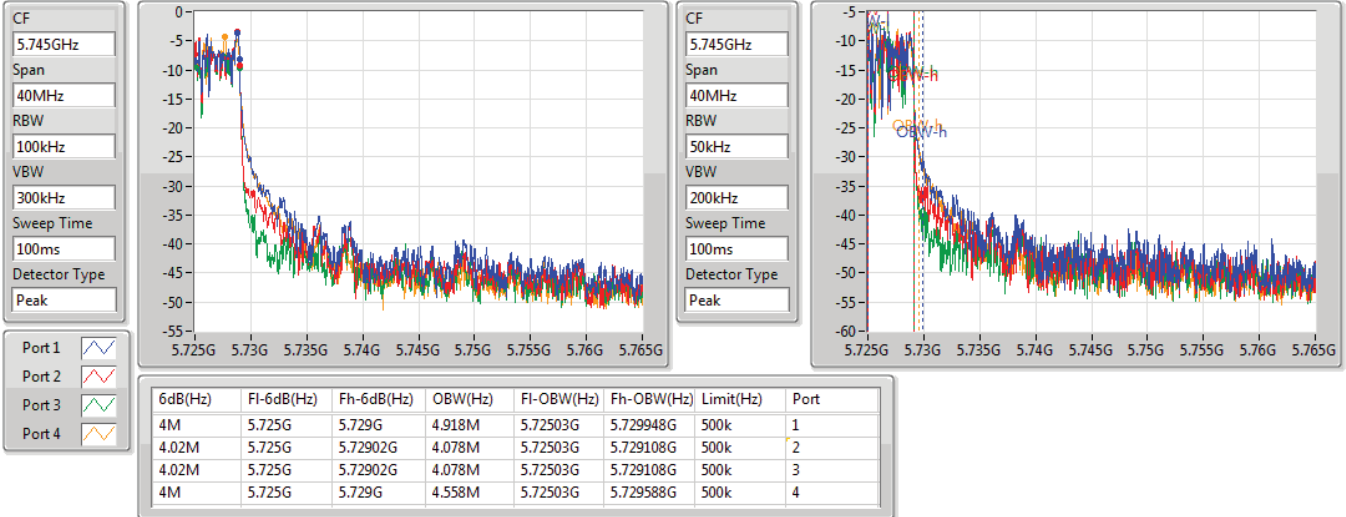

802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

24/12/2019

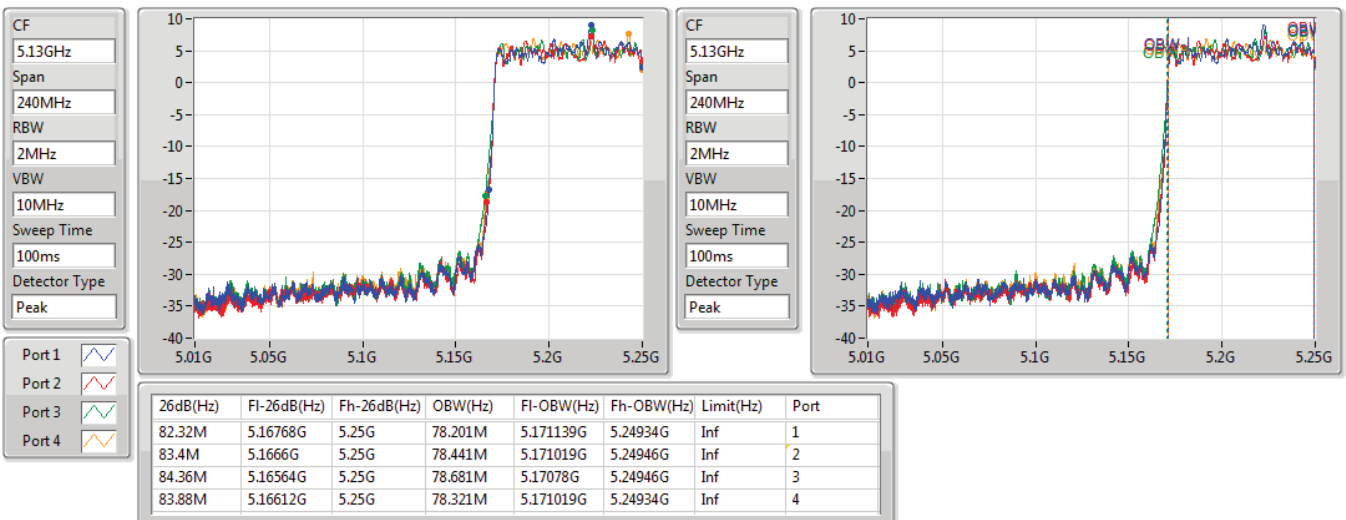


802.11ax HEW80_Nss4,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

24/12/2019

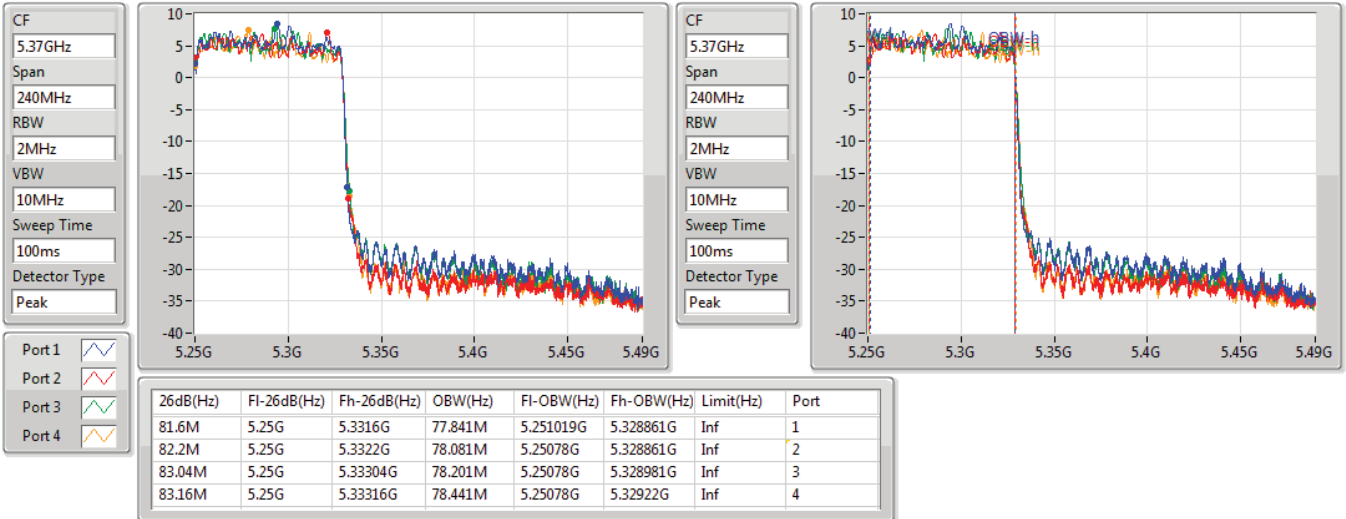

802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

04/01/2020

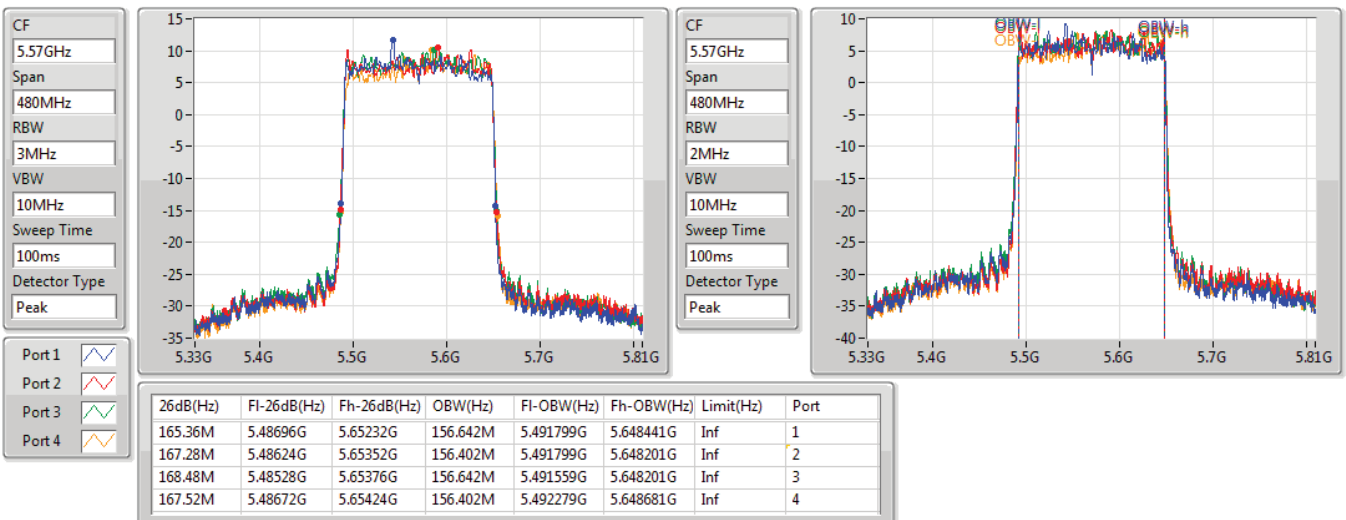


802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

04/01/2020


802.11ax HEW160_Nss4,(MCS0)_4TX
EBW
5570MHz

08/01/2020



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	83.88M	78.801M	78M8D1D	82.92M	78.681M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	83.4M	78.681M	78M7D1D	83.04M	78.681M
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	39.48M	18.381M	18M4D1D	21.15M	17.811M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	48.48M	37.001M	37M0D1D	41.64M	36.282M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	86.88M	75.682M	75M7D1D	86.16M	75.682M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	84.72M	77.001M	77M0D1D	84.24M	76.882M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.73M	19.49M	19M5D1D	23.52M	19.07M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	50.34M	38.141M	38M1D1D	43.26M	38.081M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	83.28M	77.361M	77M4D1D	82.92M	77.361M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	81.12M	78.321M	78M3D1D	81.12M	77.841M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	28.59M	18.141M	18M1D1D	18.645M	14.153M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	53.4M	37.181M	37M2D1D	39.27M	33.058M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	96M	76.762M	76M8D1D	79.425M	72.714M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	167.04M	154.963M	155MD1D	165.84M	154.483M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	25.62M	19.49M	19M5D1D	17.67M	14.558M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	50.4M	38.141M	38M1D1D	37.695M	33.758M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	89.52M	77.961M	78M0D1D	78.45M	73.538M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	164.4M	156.882M	157MD1D	163.92M	156.642M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	3.9M	5.157M	5M16D1D	3.78M	5.117M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	3.28M	5.497M	5M50D1D	3.16M	5.357M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	3.18M	5.897M	5M90D1D	2.88M	5.617M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	4.54M	4.658M	4M66D1D	4.46M	4.618M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	4.08M	4.478M	4M48D1D	4.02M	4.378M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.1M	4.638M	4M64D1D	3.98M	4.538M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	28.74M	18.141M	28.74M	18.141M	39.48M	18.381M	34.14M	18.261M
5300MHz	Pass	Inf	27.57M	18.111M	27.81M	18.111M	27.3M	18.141M	27.36M	18.141M
5320MHz	Pass	Inf	21.3M	17.811M	21.15M	17.811M	21.33M	17.811M	21.33M	17.811M
5500MHz	Pass	Inf	20.88M	17.631M	20.73M	17.631M	20.94M	17.631M	20.7M	17.631M
5580MHz	Pass	Inf	28.59M	18.141M	27.21M	18.111M	27.54M	18.141M	27.96M	18.141M
5700MHz	Pass	Inf	20.64M	17.811M	20.67M	17.841M	20.82M	17.841M	20.91M	17.841M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	18.645M	14.198M	19.11M	14.168M	19.005M	14.153M	18.975M	14.183M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.8M	5.137M	3.78M	5.157M	3.82M	5.117M	3.9M	5.137M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	47.46M	37.001M	48.18M	37.001M	48.48M	36.942M	47.58M	37.001M
5310MHz	Pass	Inf	41.76M	36.282M	41.76M	36.282M	41.88M	36.282M	41.64M	36.282M
5510MHz	Pass	Inf	42.24M	36.342M	42.3M	36.342M	42.06M	36.342M	42.18M	36.342M
5550MHz	Pass	Inf	43.02M	36.462M	45.9M	36.702M	53.4M	37.181M	45.72M	36.702M
5670MHz	Pass	Inf	45.06M	36.462M	45M	36.462M	44.94M	36.522M	45.18M	36.462M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	40.145M	33.058M	39.27M	33.058M	39.55M	33.093M	39.48M	33.093M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	5.477M	3.16M	5.497M	3.28M	5.417M	3.18M	5.357M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	86.76M	75.682M	86.28M	75.682M	86.16M	75.682M	86.88M	75.682M
5530MHz	Pass	Inf	89.28M	76.162M	89.28M	76.402M	88.92M	76.282M	88.68M	76.282M
5610MHz	Pass	Inf	88.32M	76.762M	96M	76.642M	91.2M	76.522M	90.72M	76.762M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	79.425M	72.939M	82.5M	72.714M	82.5M	72.864M	83.25M	72.789M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	2.88M	5.897M	3.18M	5.677M	3.18M	5.617M	3.18M	5.677M
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	83.16M	78.801M	83.04M	78.681M	83.88M	78.801M	82.92M	78.681M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	84.24M	76.882M	84.24M	76.882M	84.72M	76.882M	84.6M	77.001M
5570MHz	Pass	Inf	165.84M	154.483M	166.56M	154.723M	166.32M	154.963M	167.04M	154.963M
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	24.57M	19.1M	25.02M	19.1M	24.63M	19.07M	25.44M	19.1M
5300MHz	Pass	Inf	25.05M	19.13M	25.02M	19.13M	25.26M	19.07M	26.73M	19.07M
5320MHz	Pass	Inf	23.82M	19.46M	23.55M	19.49M	23.88M	19.46M	23.52M	19.46M
5500MHz	Pass	Inf	23.52M	19.49M	23.91M	19.46M	23.46M	19.49M	23.88M	19.46M
5580MHz	Pass	Inf	25.05M	19.13M	24.87M	19.13M	25.41M	19.13M	25.62M	19.1M
5700MHz	Pass	Inf	23.82M	19.46M	24.03M	19.49M	23.94M	19.46M	23.76M	19.46M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.85M	14.558M	17.67M	14.558M	17.94M	14.558M	17.925M	14.558M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.54M	4.638M	4.52M	4.618M	4.46M	4.658M	4.5M	4.638M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	48.96M	38.081M	47.22M	38.081M	49.02M	38.141M	50.34M	38.081M
5310MHz	Pass	Inf	43.44M	38.141M	43.38M	38.141M	43.98M	38.141M	43.26M	38.141M
5510MHz	Pass	Inf	43.74M	38.141M	43.44M	38.141M	43.26M	38.141M	43.74M	38.141M
5550MHz	Pass	Inf	48.06M	38.141M	50.4M	38.141M	48.3M	38.081M	49.02M	38.141M
5670MHz	Pass	Inf	43.32M	38.141M	43.14M	38.141M	44.28M	38.141M	43.44M	38.081M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	40.005M	33.758M	37.695M	33.828M	40.39M	33.793M	41.265M	33.793M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	4.418M	4.02M	4.378M	4.08M	4.478M	4.06M	4.378M



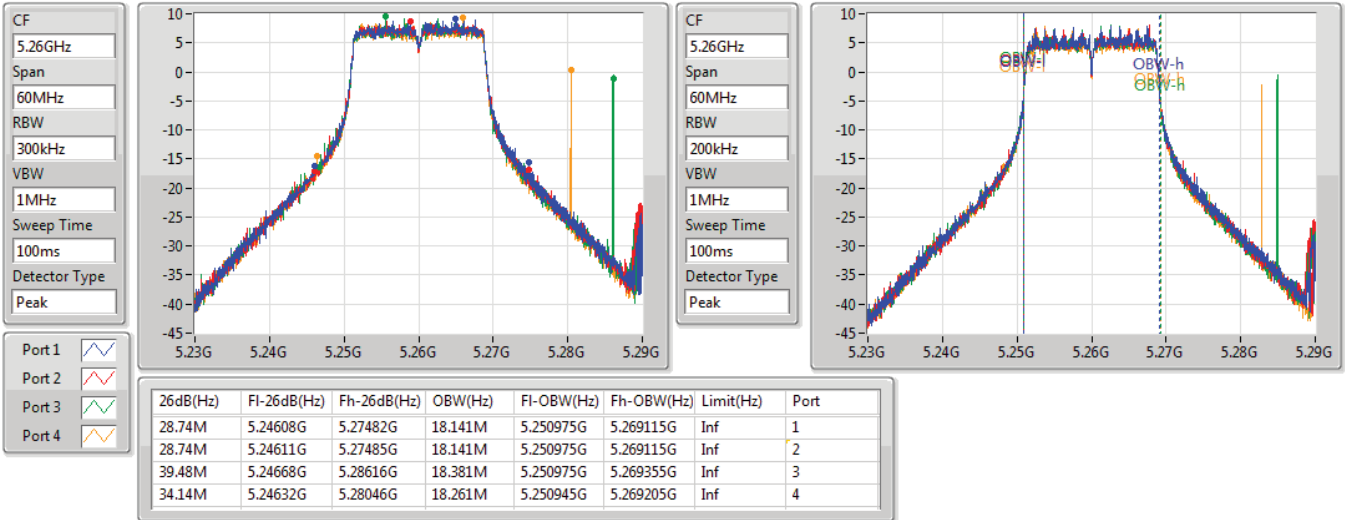
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	83.04M	77.361M	82.92M	77.361M	83.28M	77.361M	83.16M	77.361M
5530MHz	Pass	Inf	83.04M	77.361M	83.04M	77.481M	83.28M	77.361M	83.28M	77.361M
5610MHz	Pass	Inf	86.52M	77.961M	87.48M	77.841M	87.6M	77.721M	89.52M	77.841M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	82.8M	73.538M	79.65M	73.538M	79.425M	73.538M	78.45M	73.613M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.1M	4.638M	4.04M	4.598M	3.98M	4.538M	4.1M	4.578M
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	83.04M	78.681M	83.04M	78.681M	83.4M	78.681M	83.16M	78.681M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	81.12M	77.961M	81.12M	78.321M	81.12M	77.961M	81.12M	77.841M
5570MHz	Pass	Inf	164.4M	156.642M	164.16M	156.882M	163.92M	156.882M	164.16M	156.882M

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

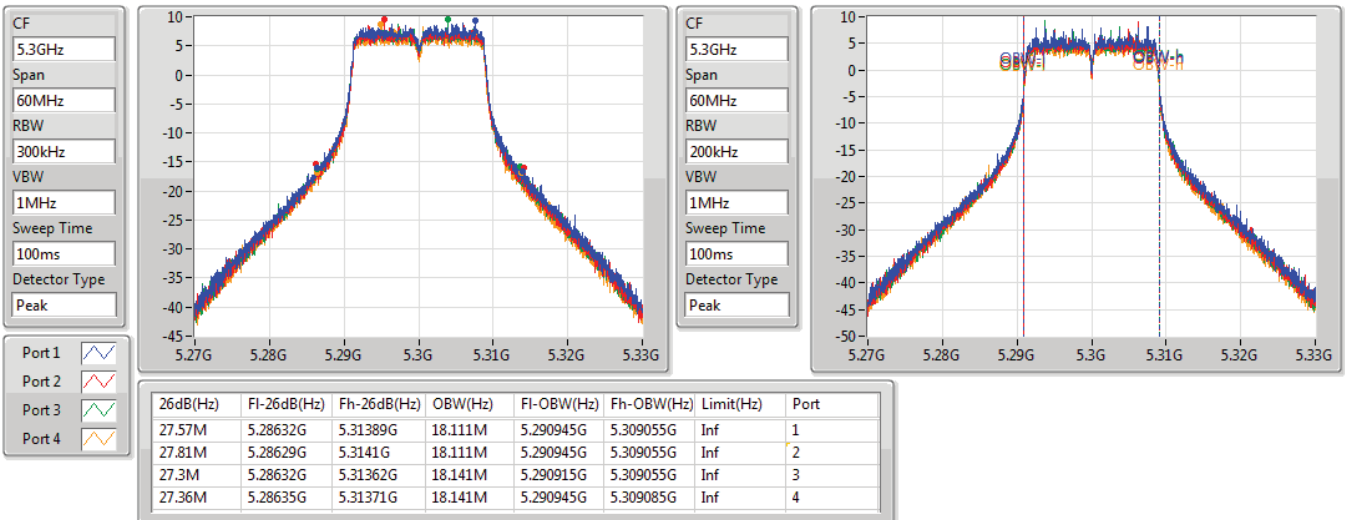
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5260MHz

20/01/2020

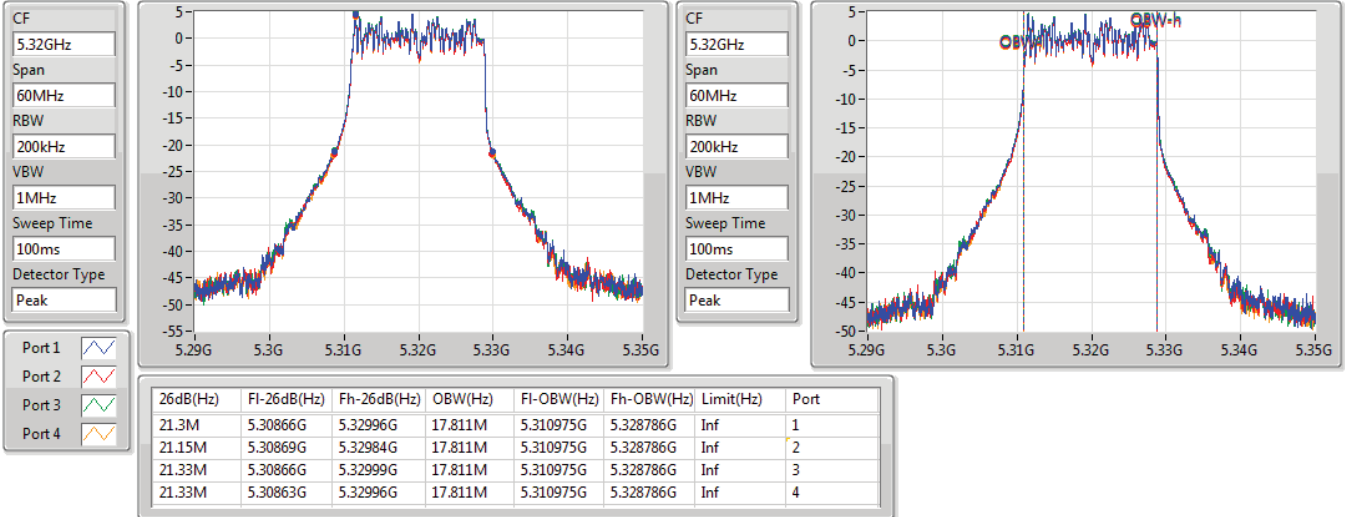

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5300MHz

20/01/2020

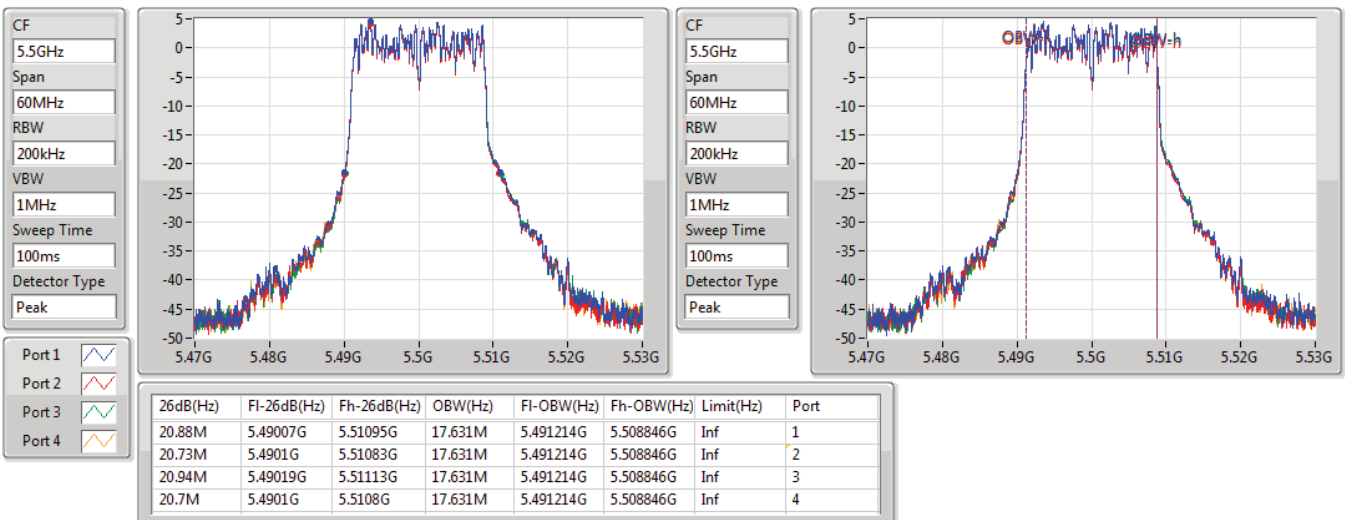


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5320MHz

17/02/2020

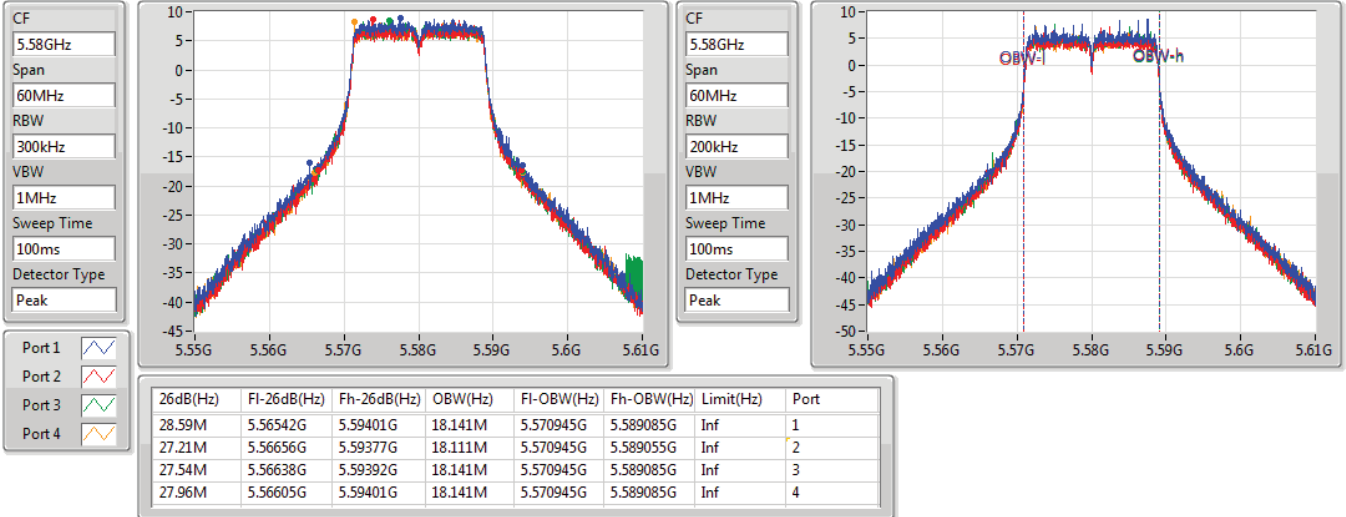

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

17/02/2020

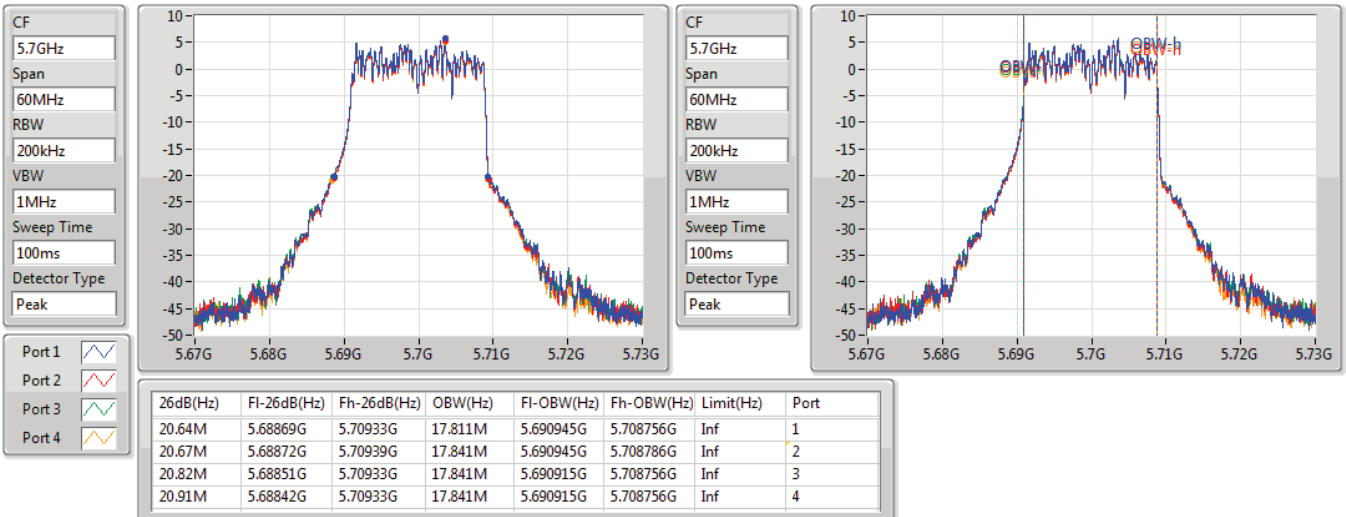


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

20/01/2020

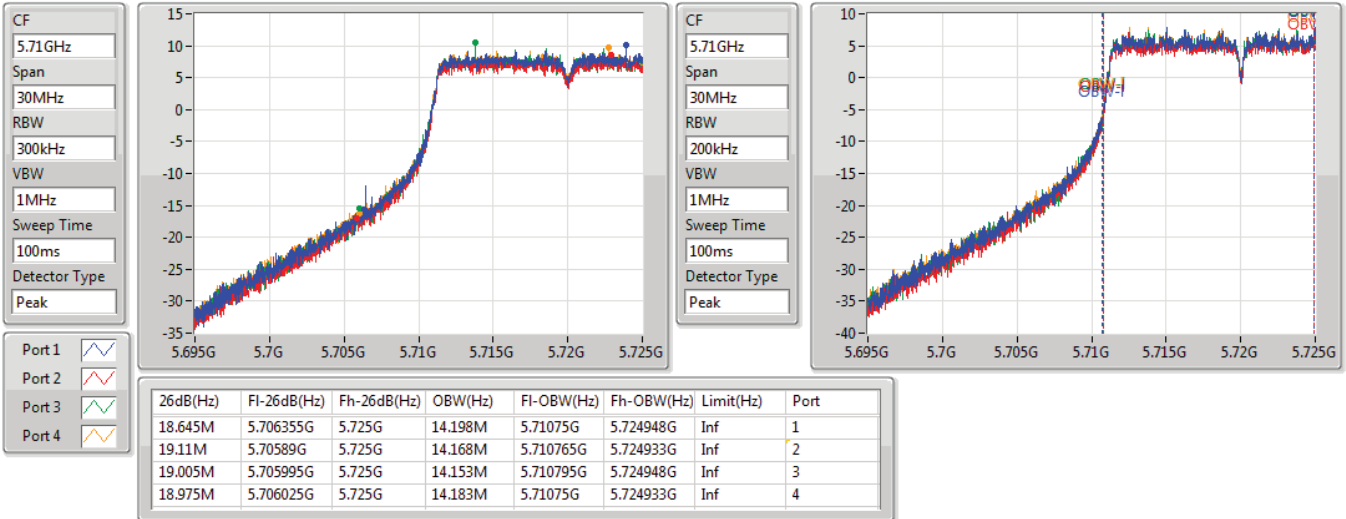

802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

17/02/2020

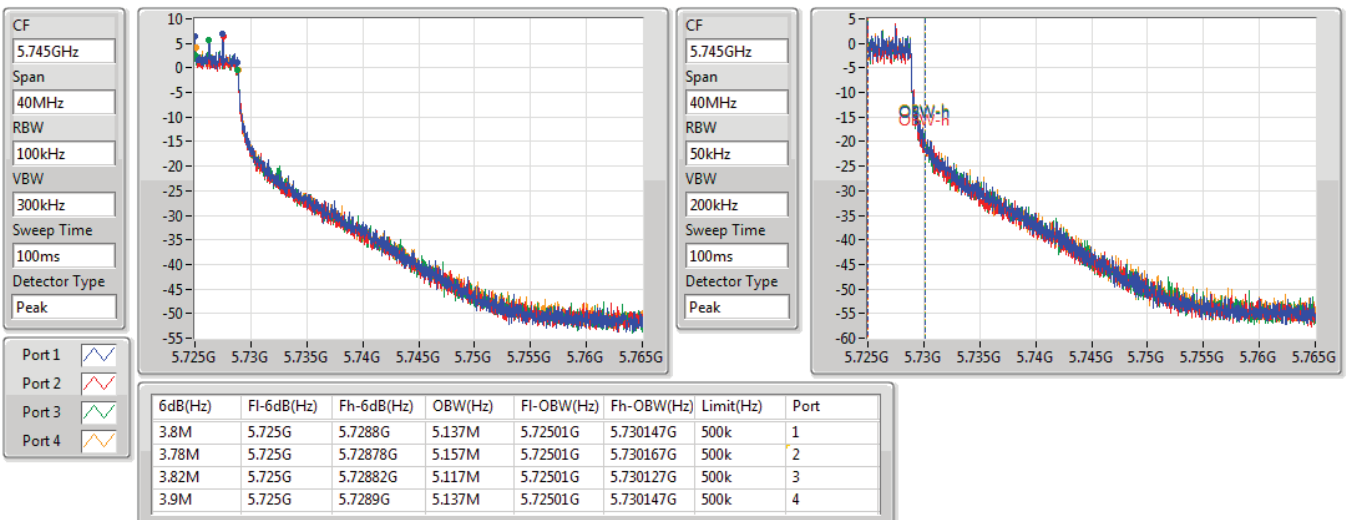


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

20/01/2020


802.11ac VHT20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

20/01/2020

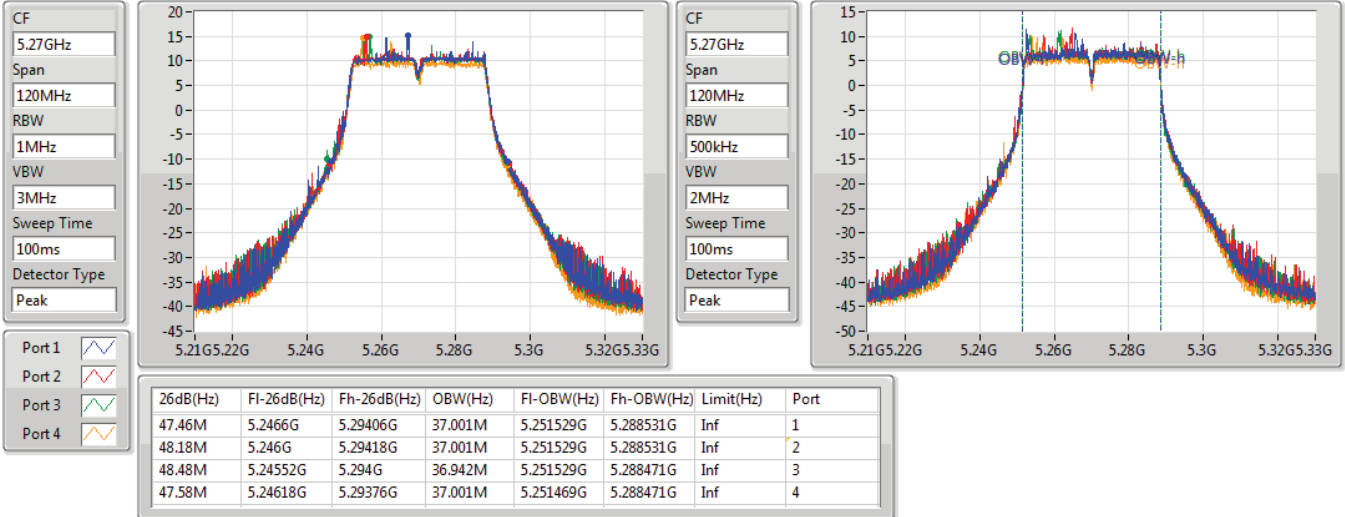


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

5270MHz

20/01/2020

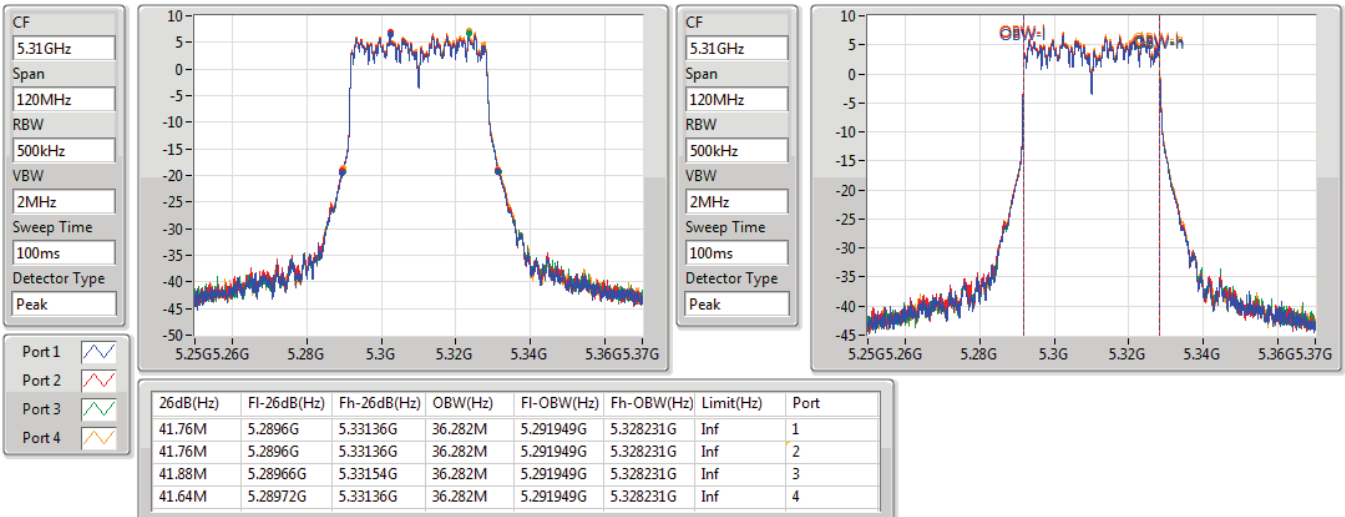


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

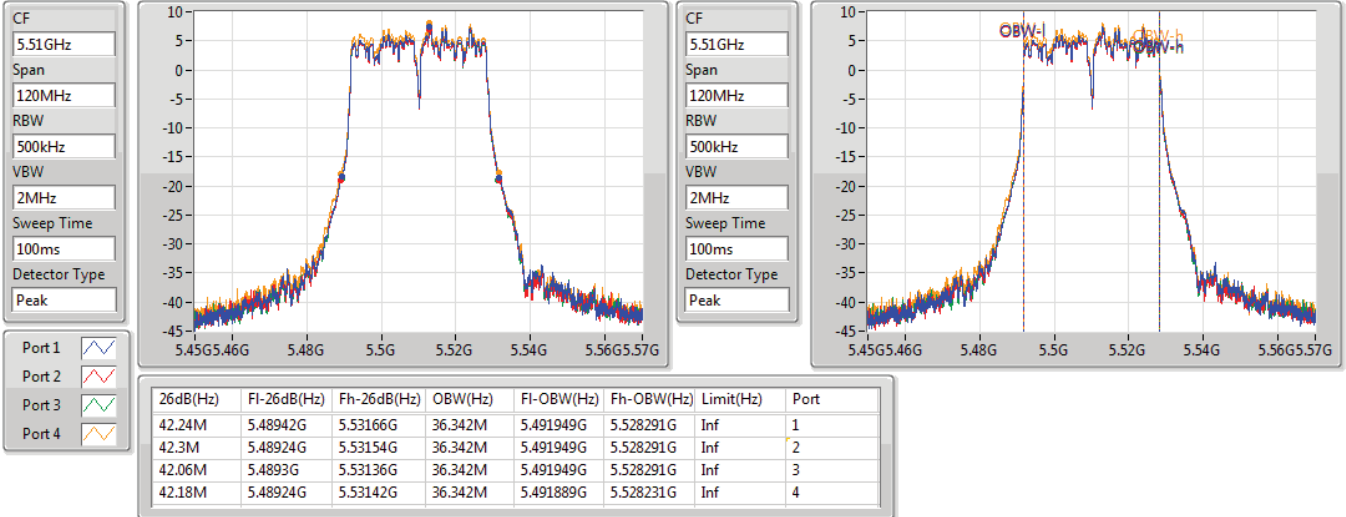
5310MHz

17/02/2020

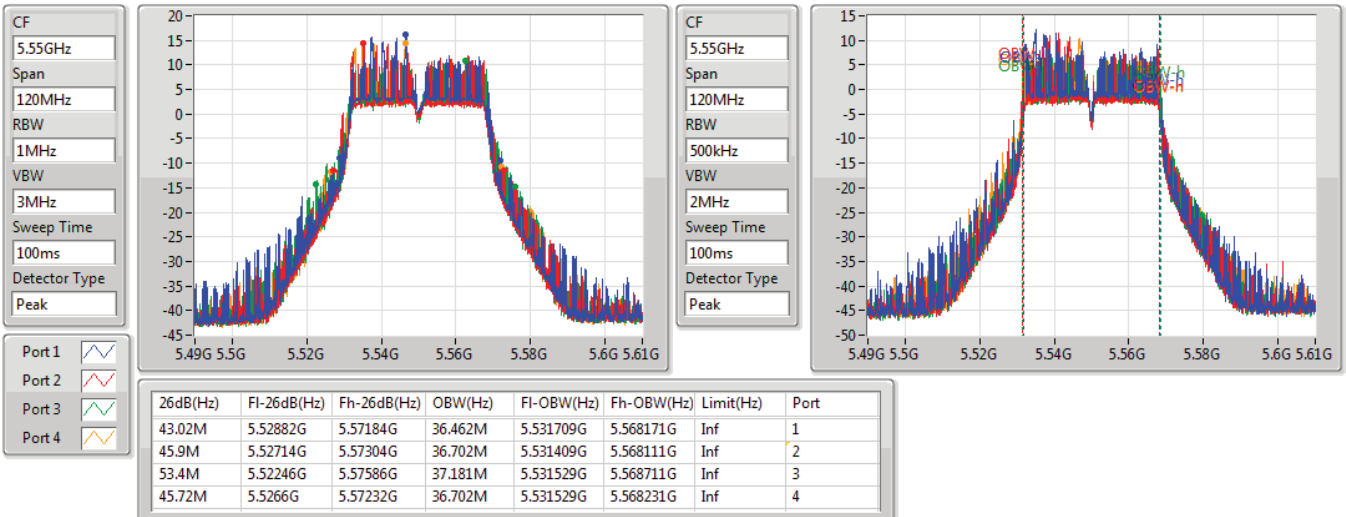


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

17/02/2020

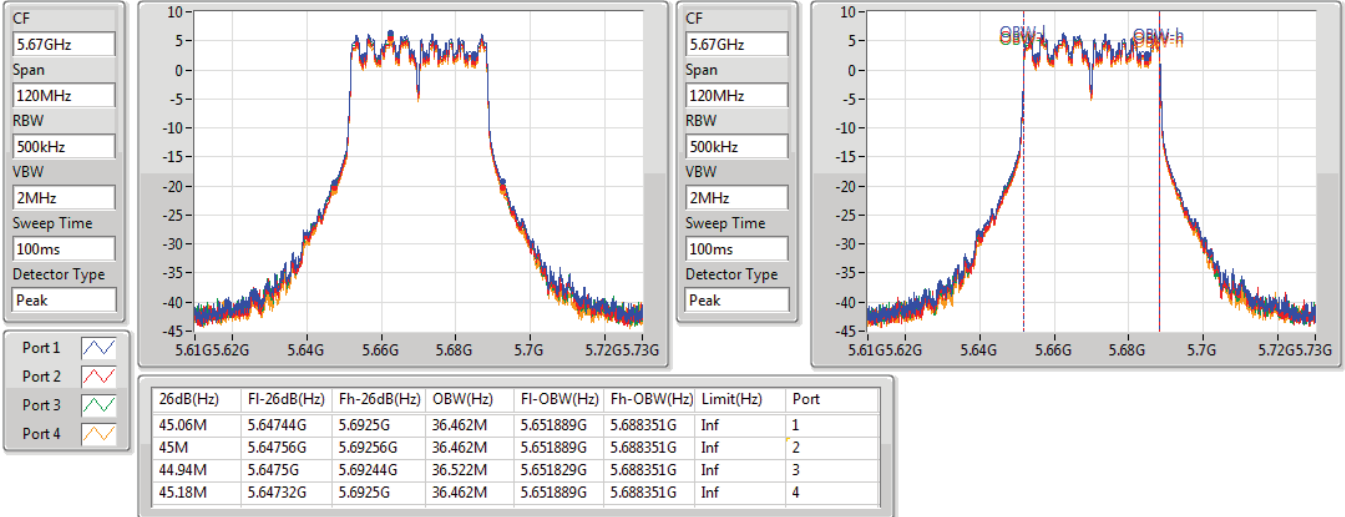

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5550MHz

20/01/2020

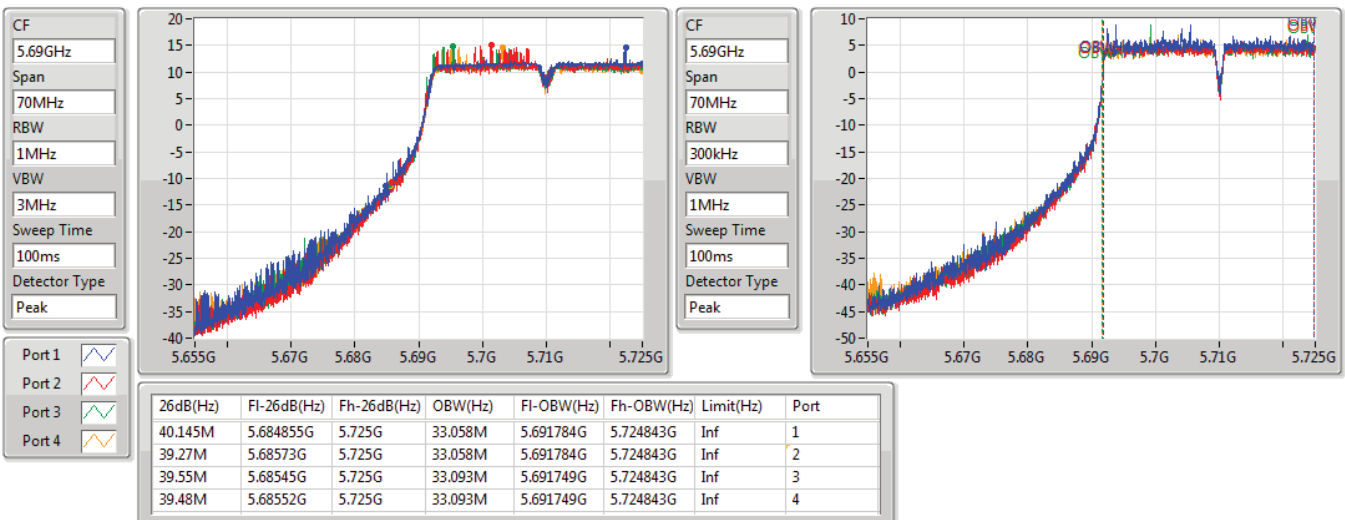


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5670MHz

17/02/2020

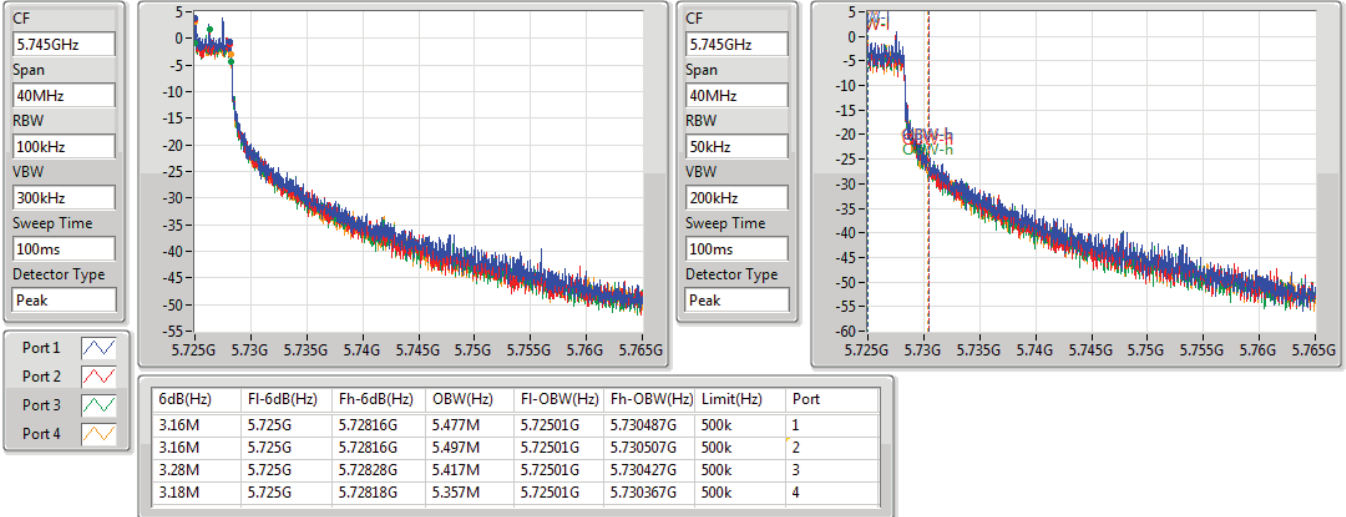

802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

20/01/2020

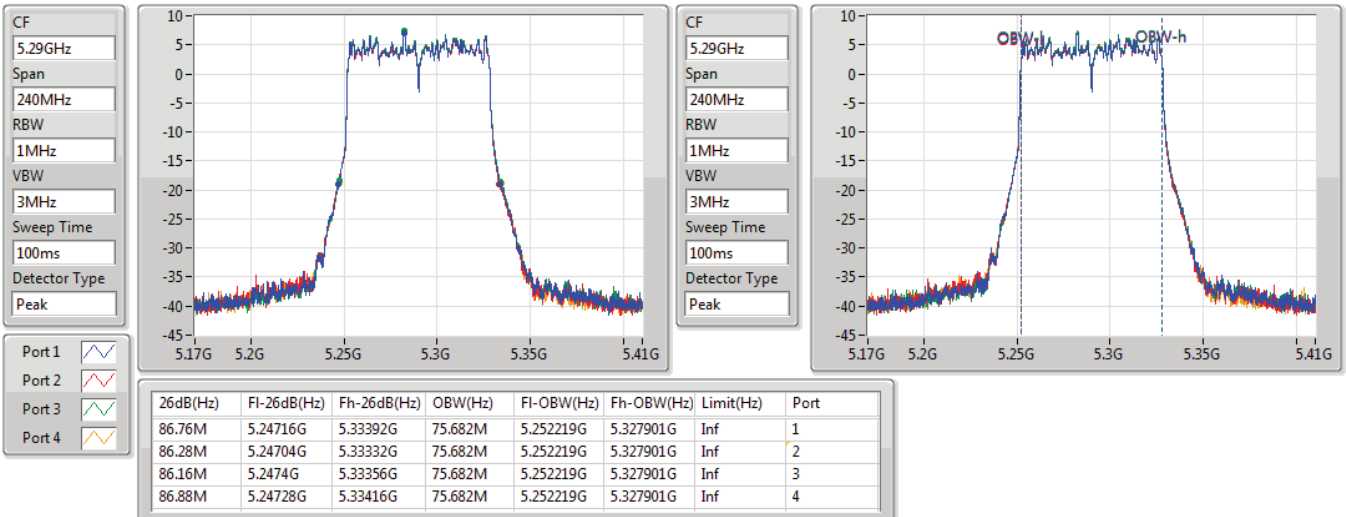


802.11ac VHT40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

20/01/2020

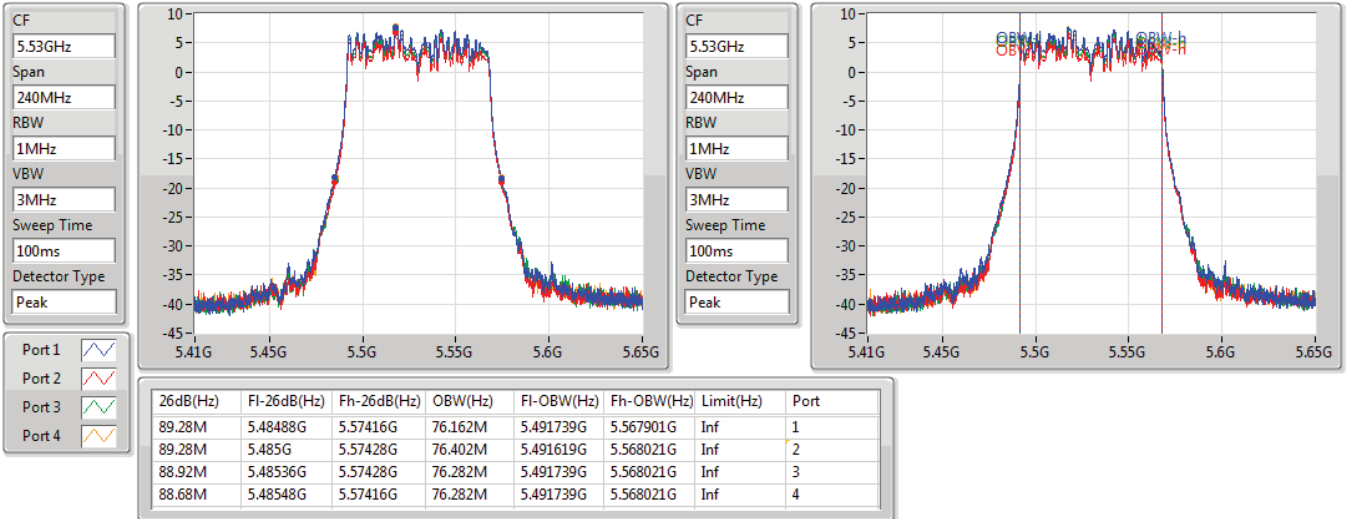

802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5290MHz

17/02/2020

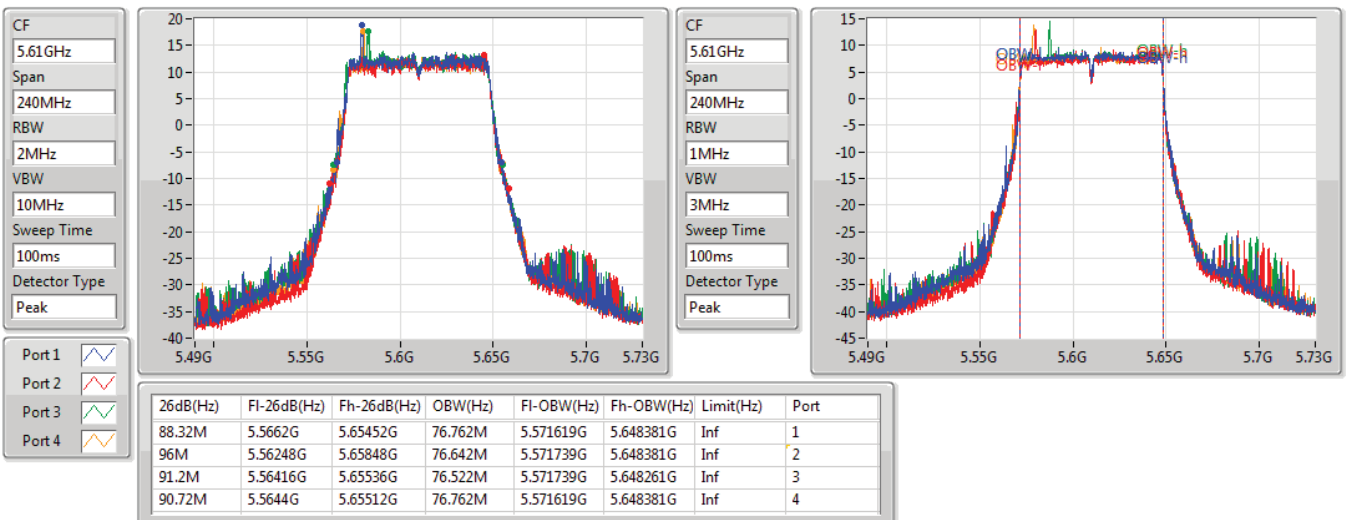


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5530MHz

17/02/2020

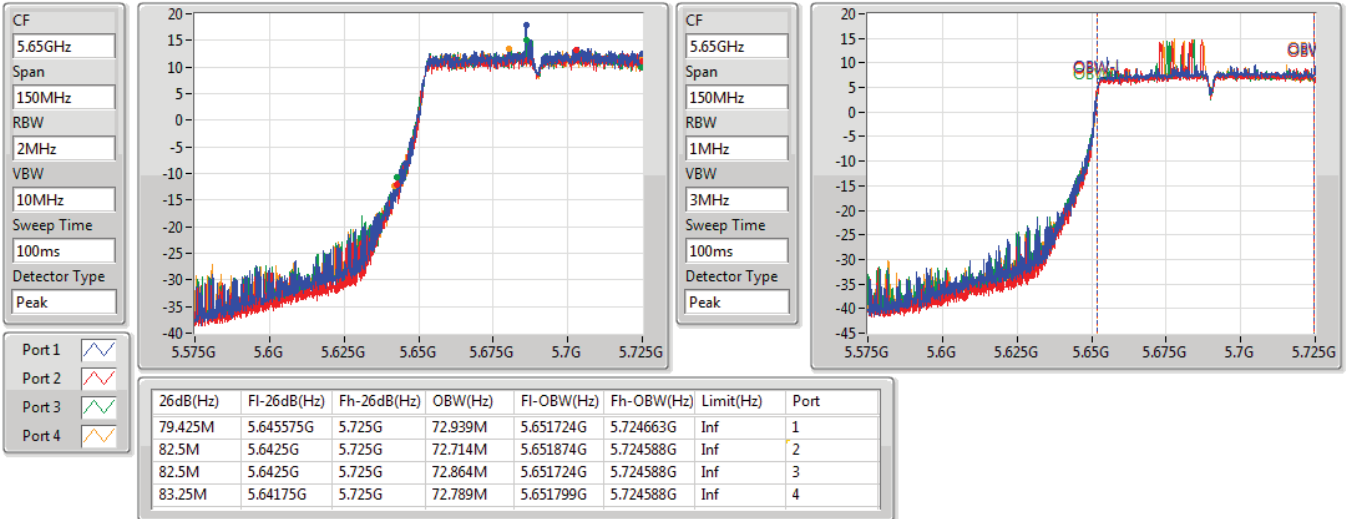

802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5610MHz

21/01/2020

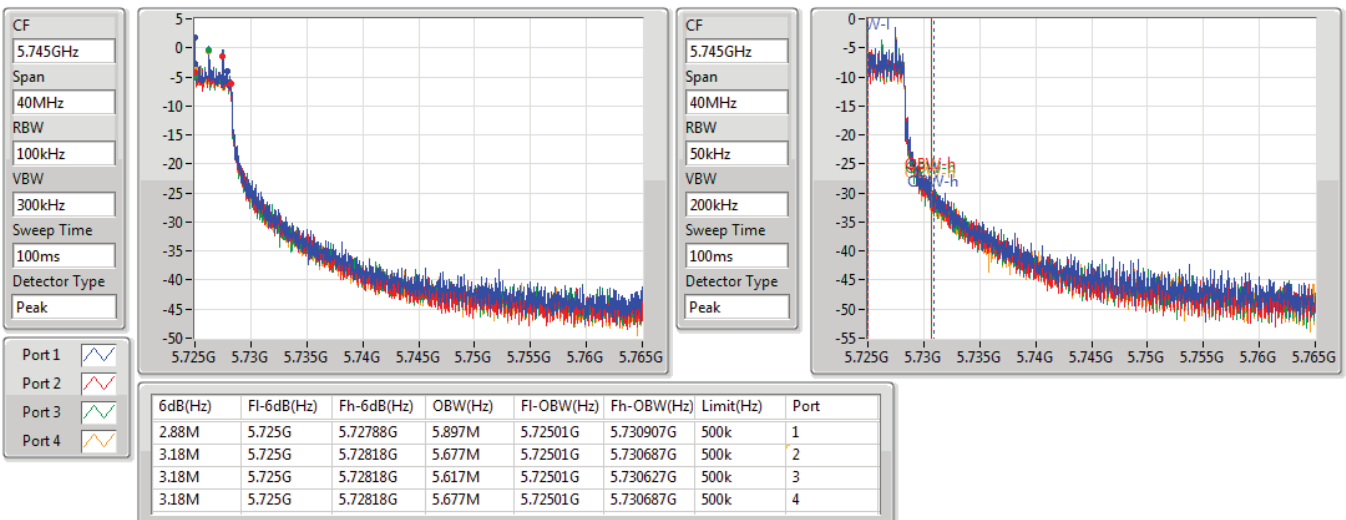


802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.47-5.725GHz

21/01/2020

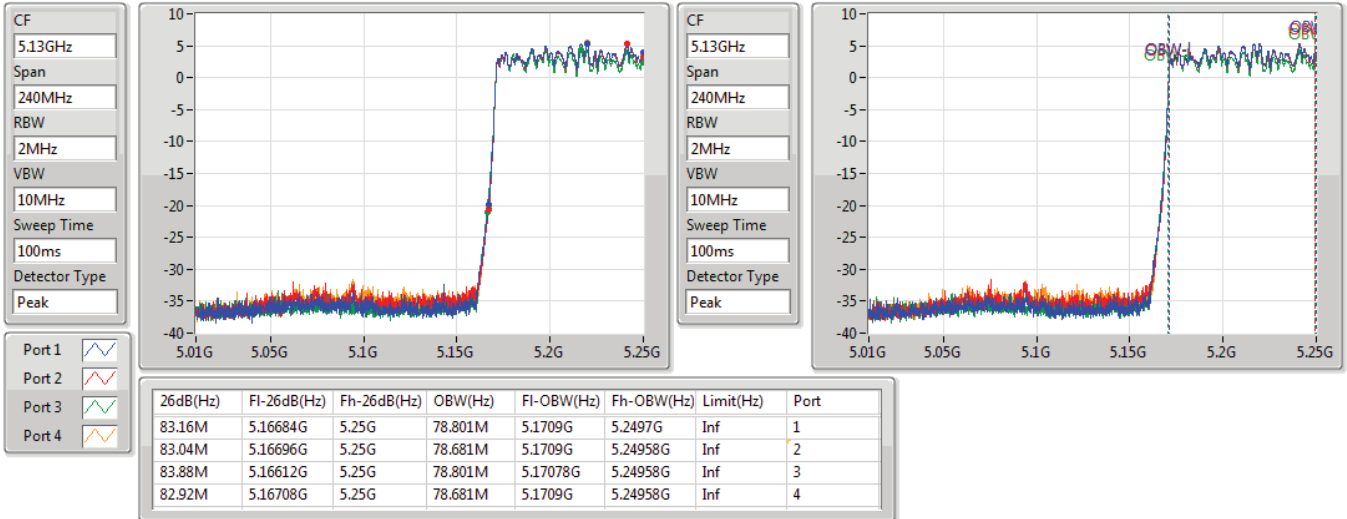

802.11ac VHT80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

21/01/2020

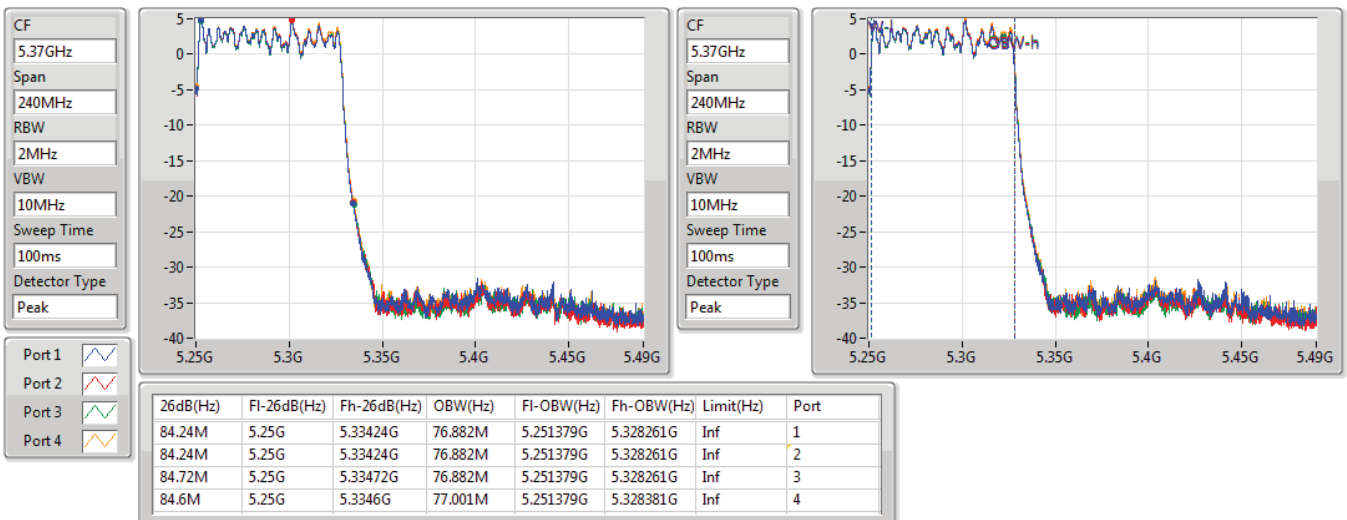


802.11ac VHT160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

25/02/2020

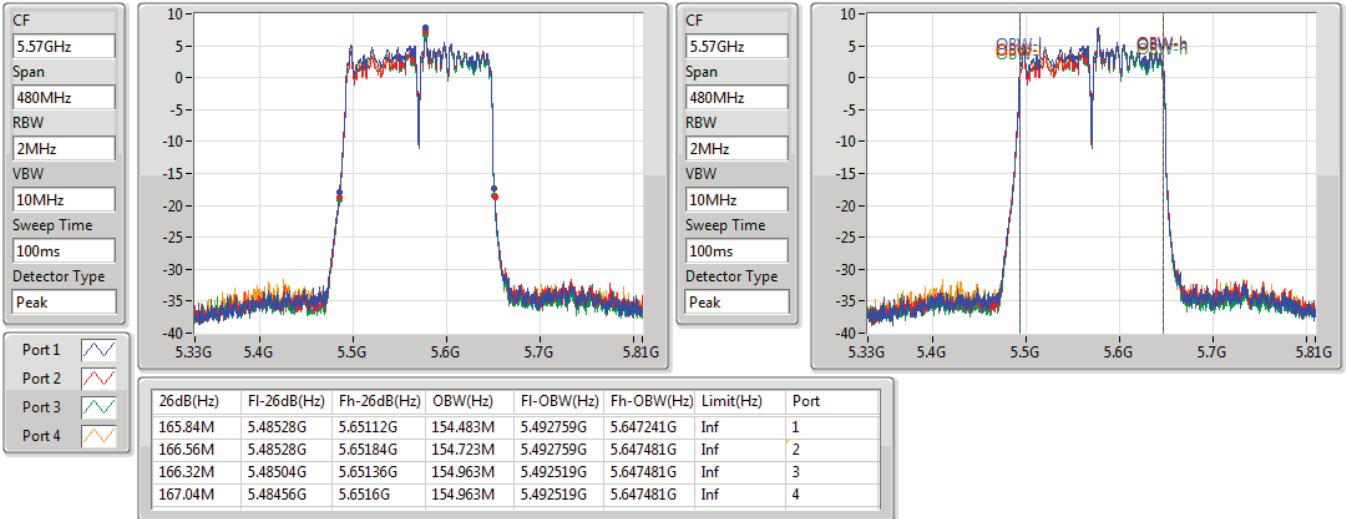

802.11ac VHT160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

18/02/2020

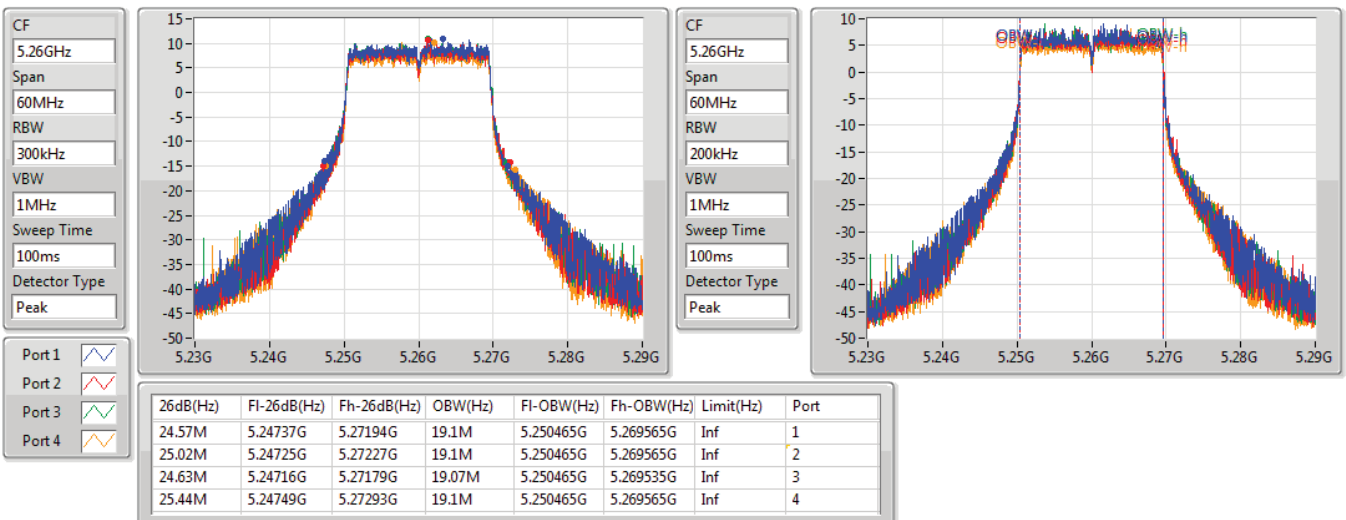


802.11ac VHT160-BF_Nss1,(MCS0)_4TX
EBW
5570MHz

17/02/2020


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5260MHz

20/01/2020

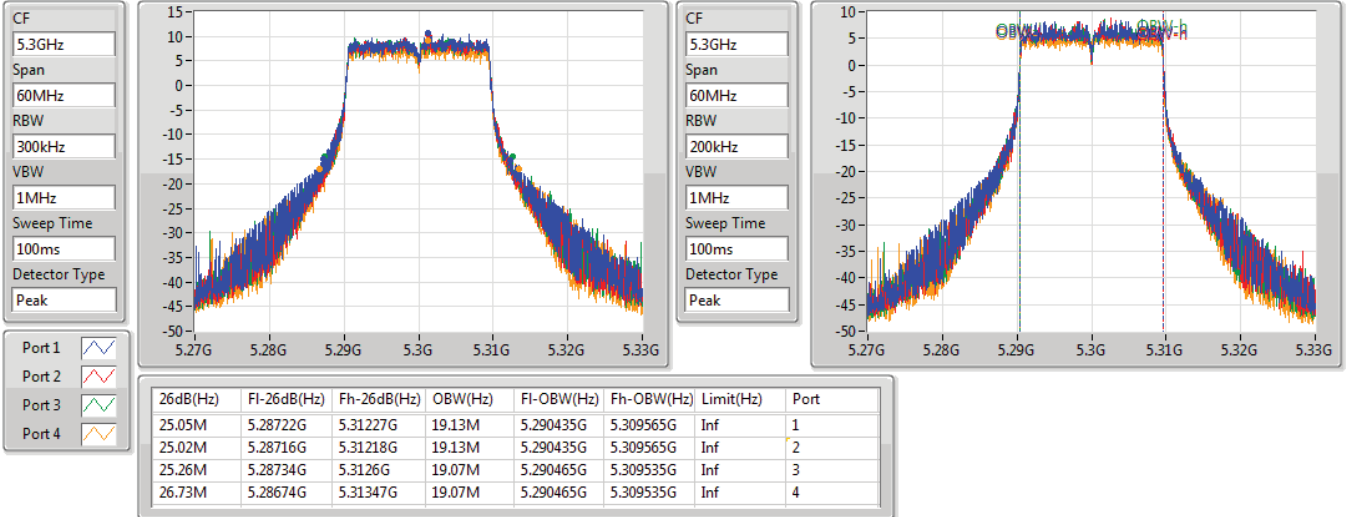


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

5300MHz

20/01/2020

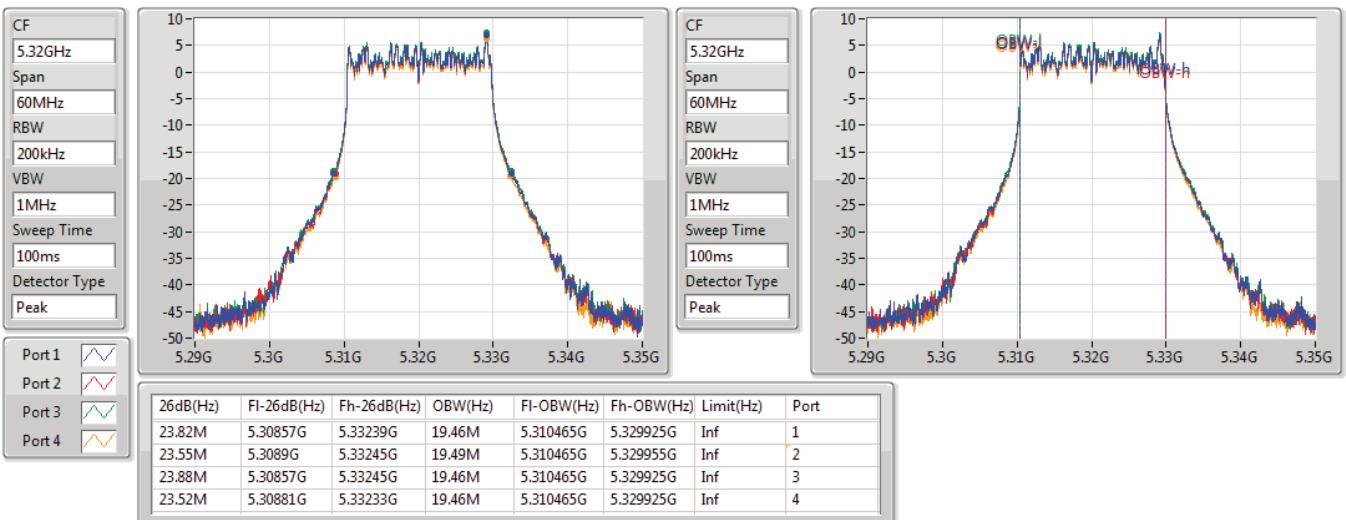


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

EBW

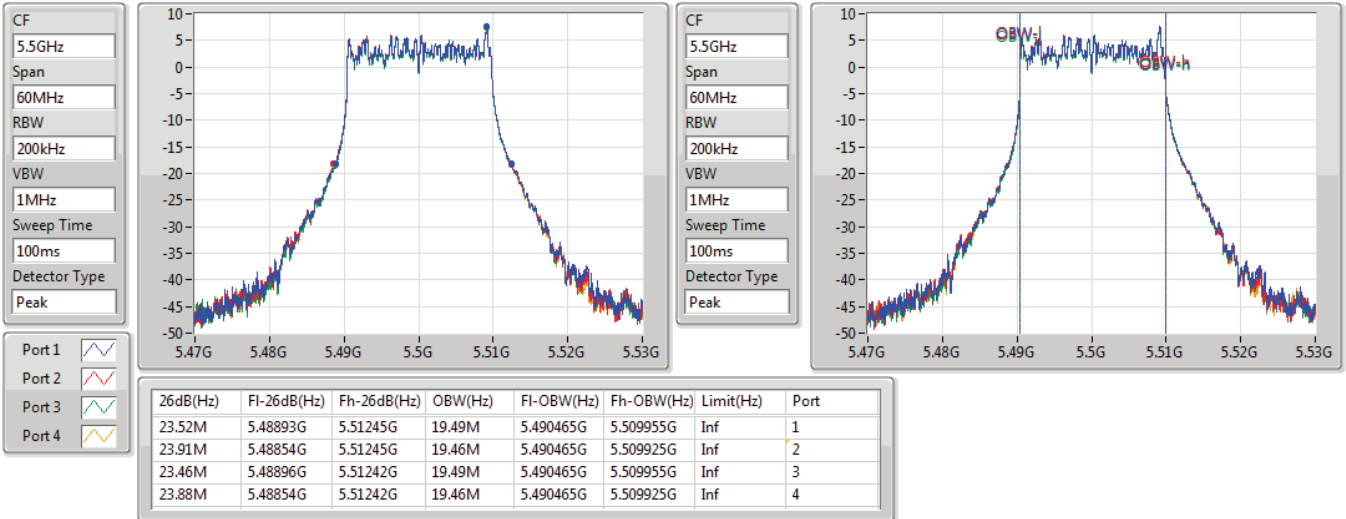
5320MHz

17/02/2020

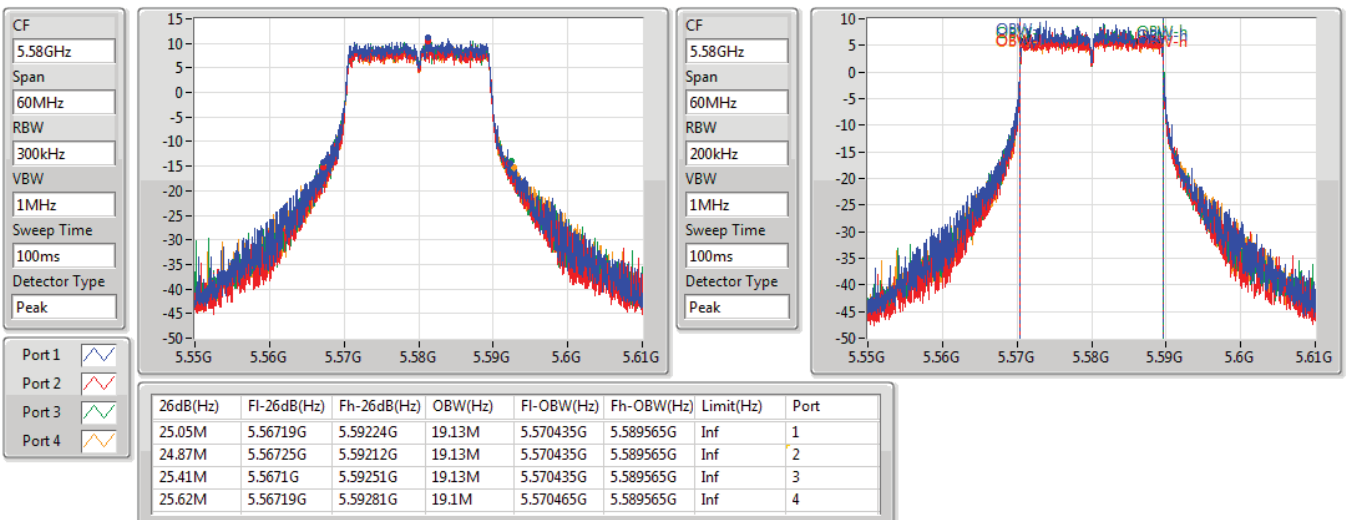


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5500MHz

17/02/2020

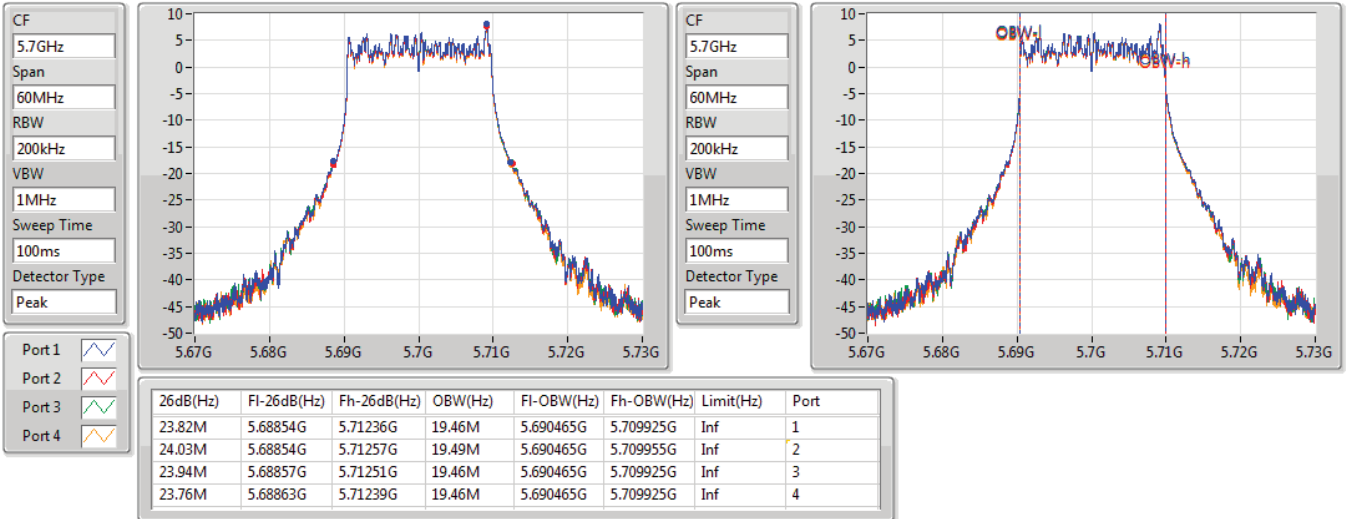

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5580MHz

20/01/2020

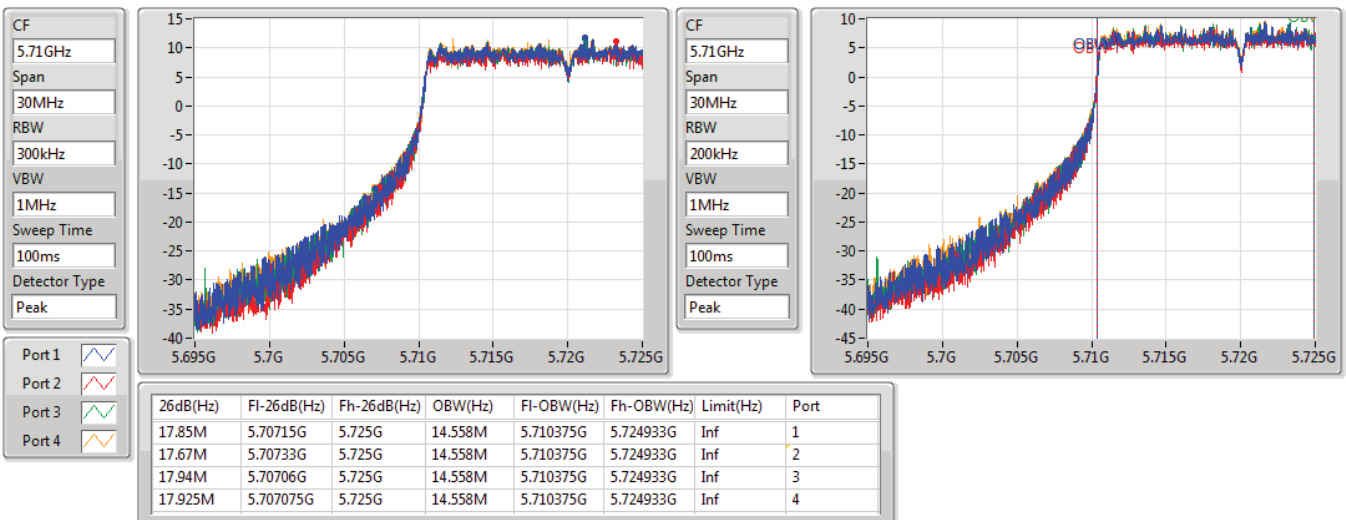


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5700MHz

17/02/2020

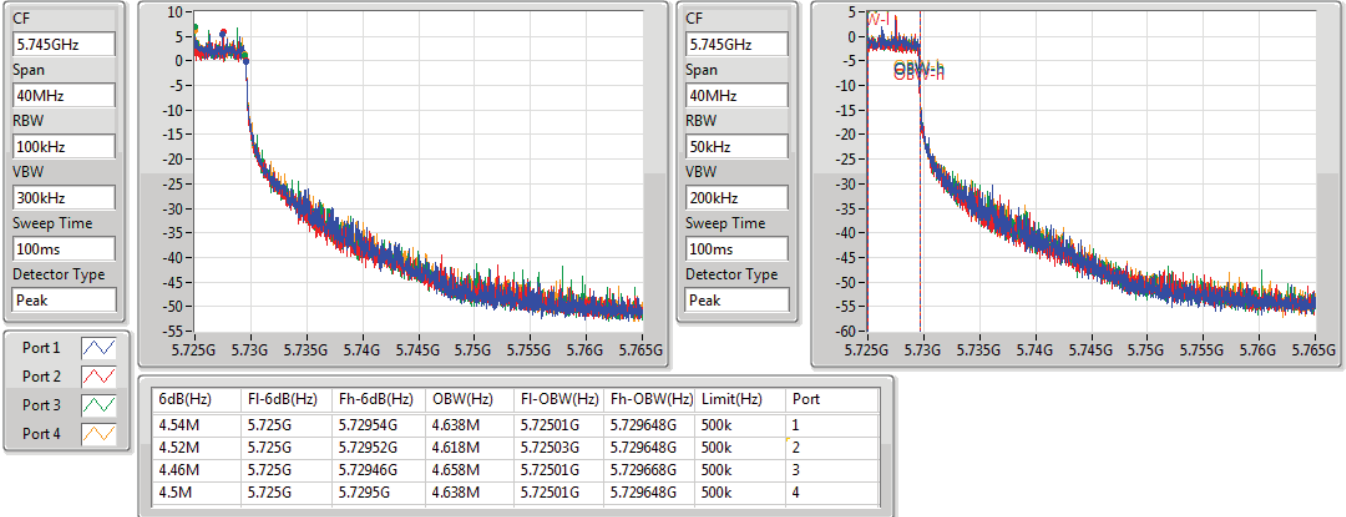

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.47-5.725GHz

20/01/2020

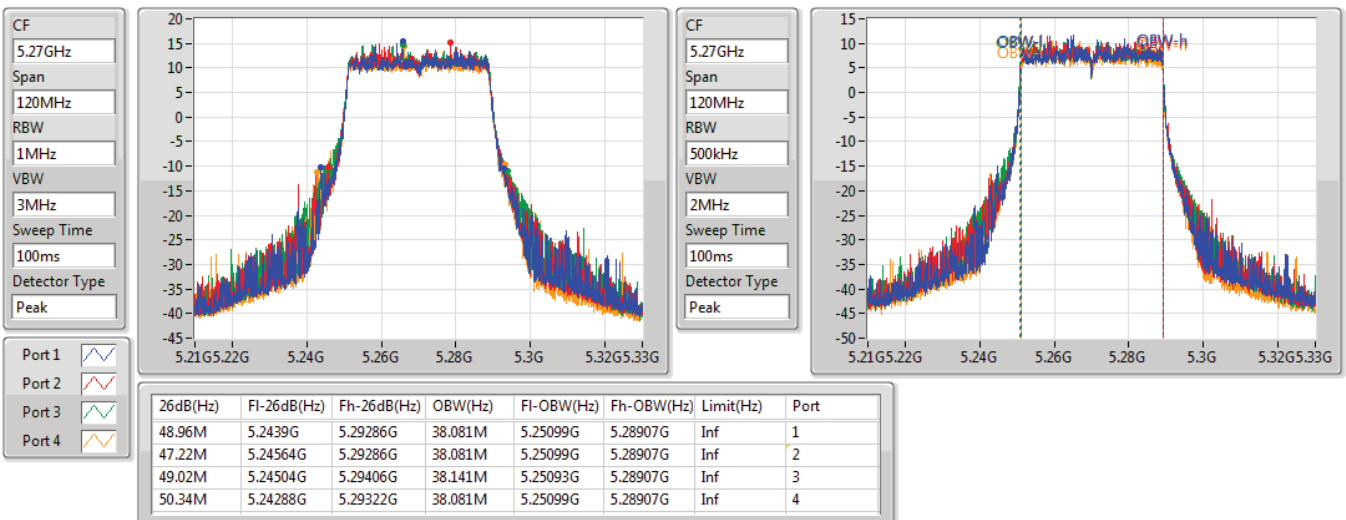


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5720MHz Straddle 5.725-5.85GHz

20/01/2020

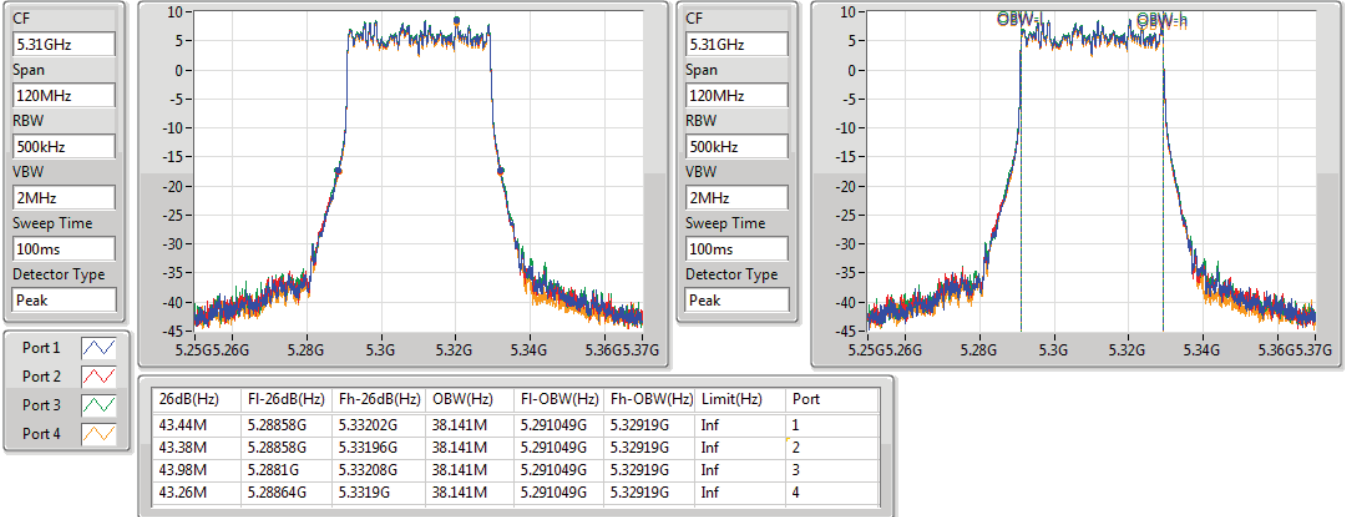

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5270MHz

20/01/2020

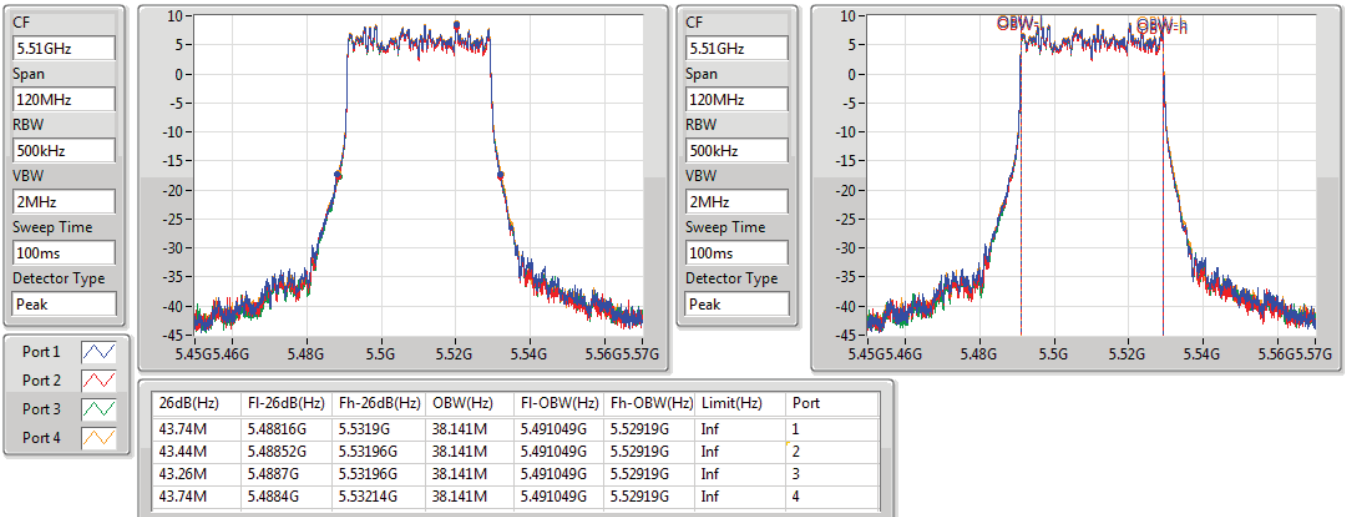


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5310MHz

17/02/2020


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5510MHz

17/02/2020

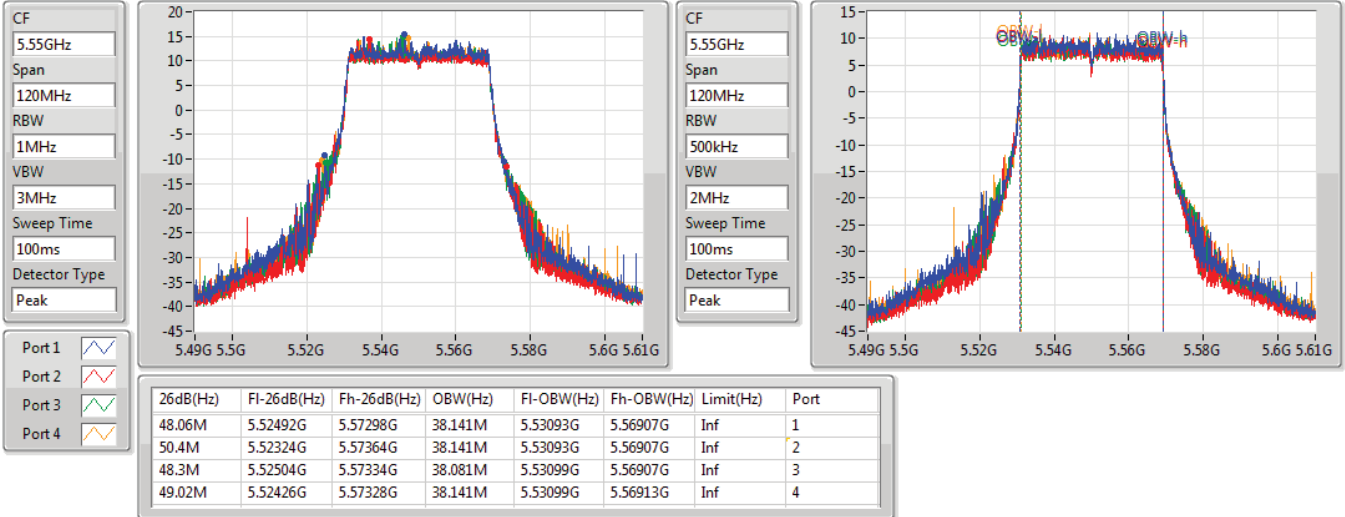


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

5550MHz

20/01/2020

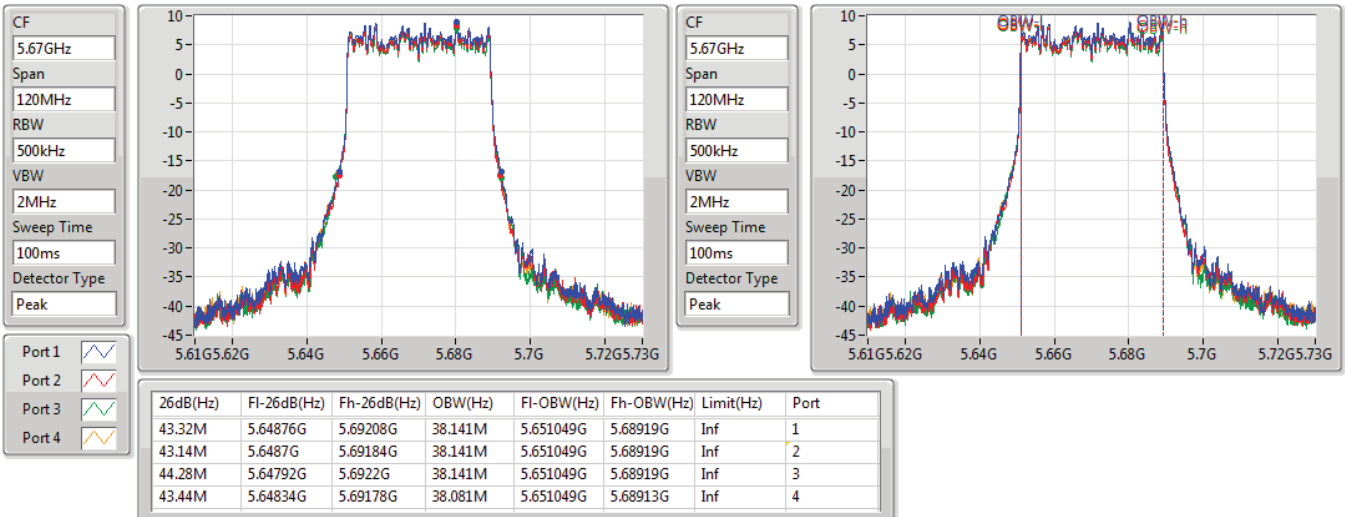


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

EBW

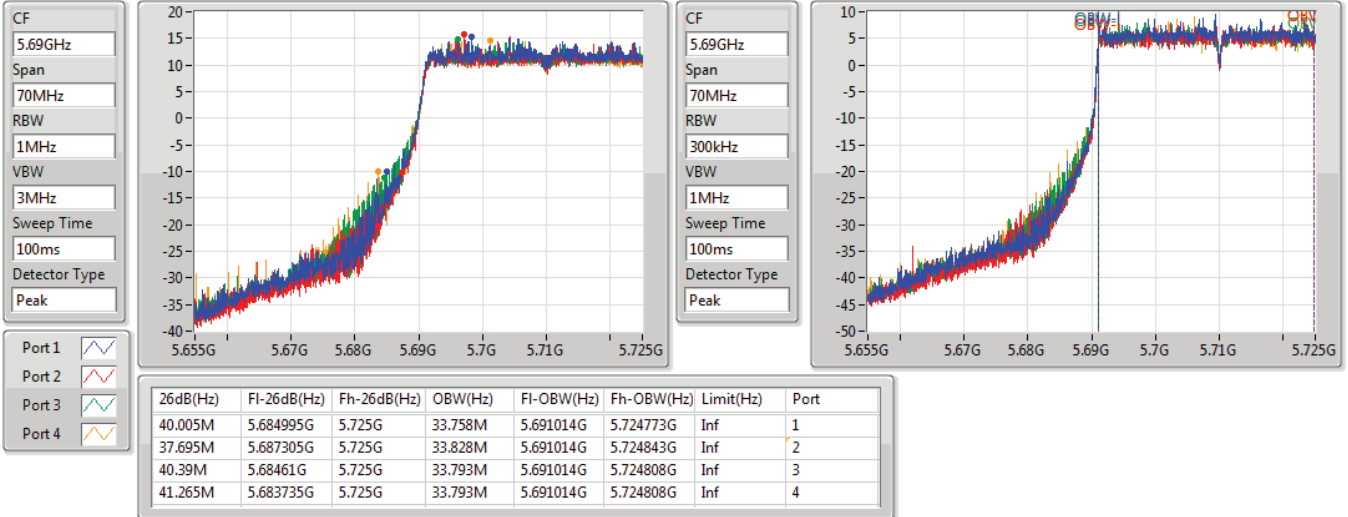
5670MHz

17/02/2020

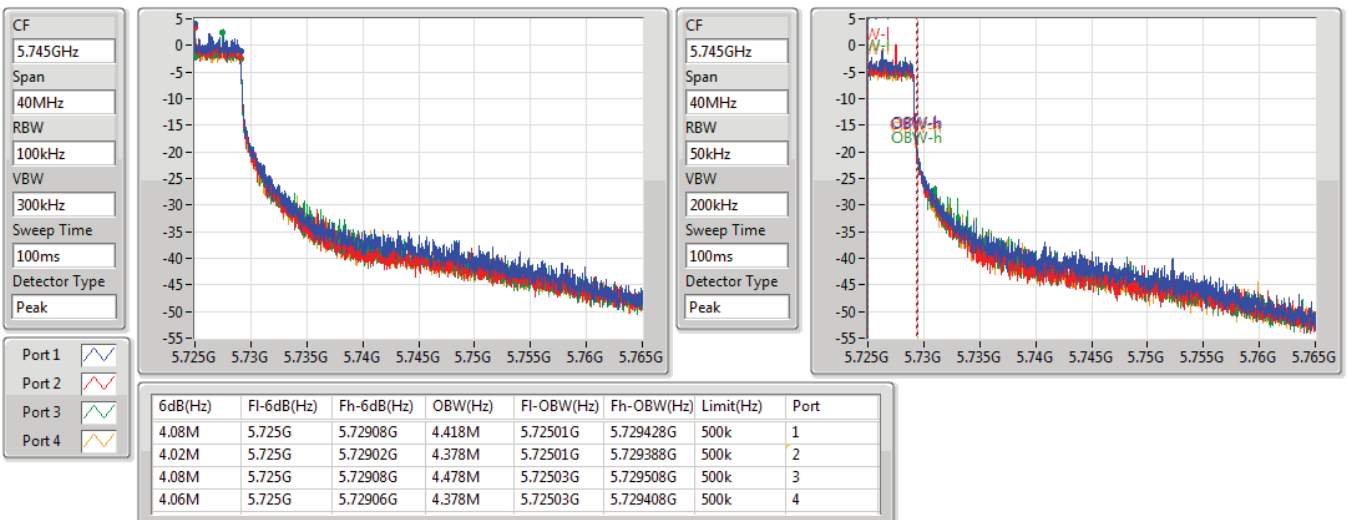


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.47-5.725GHz

20/01/2020


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5710MHz Straddle 5.725-5.85GHz

20/01/2020

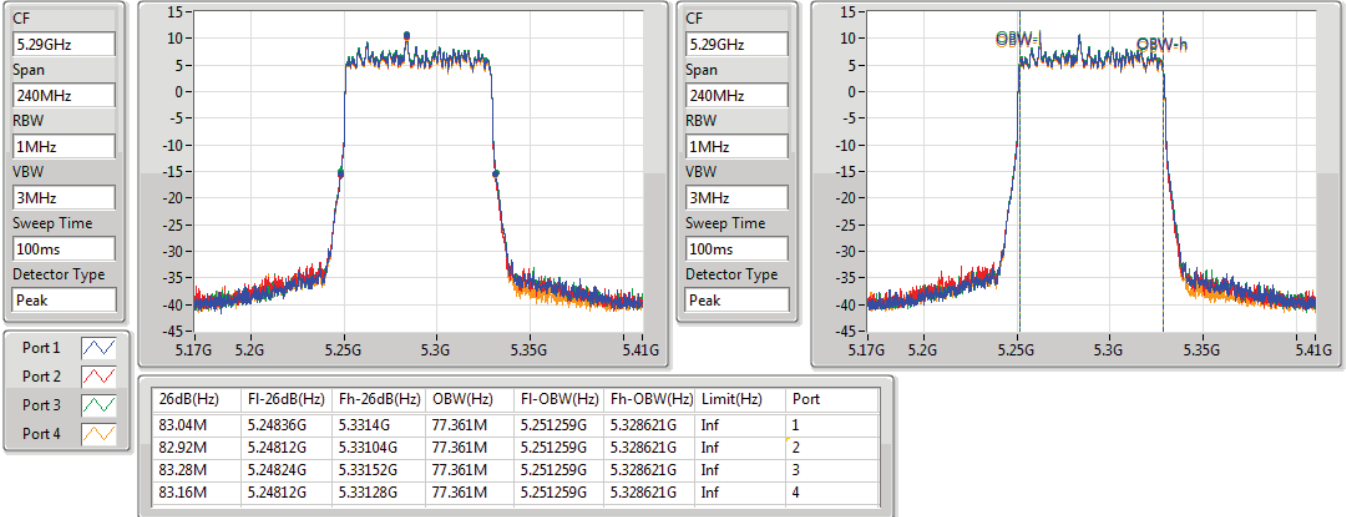


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5290MHz

17/02/2020

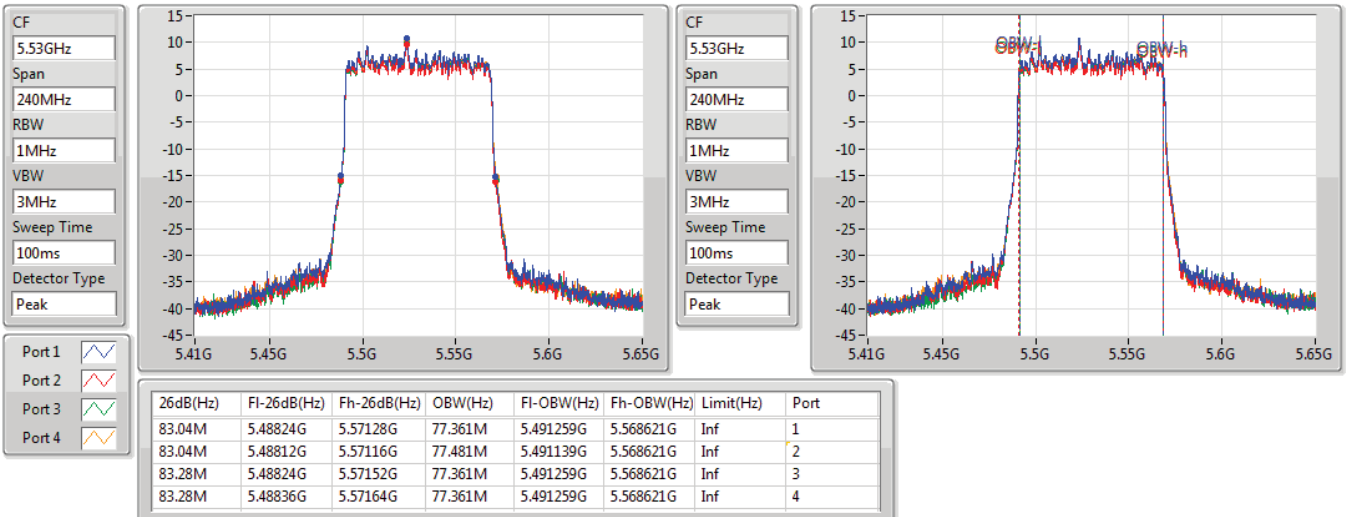


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5530MHz

17/02/2020

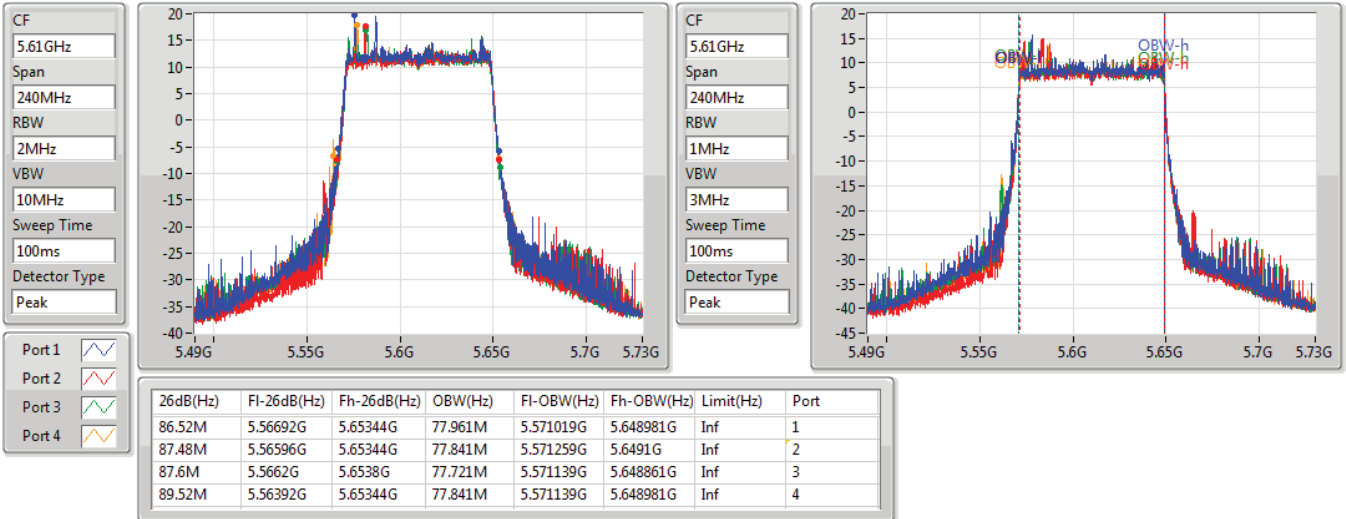


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

5610MHz

20/01/2020

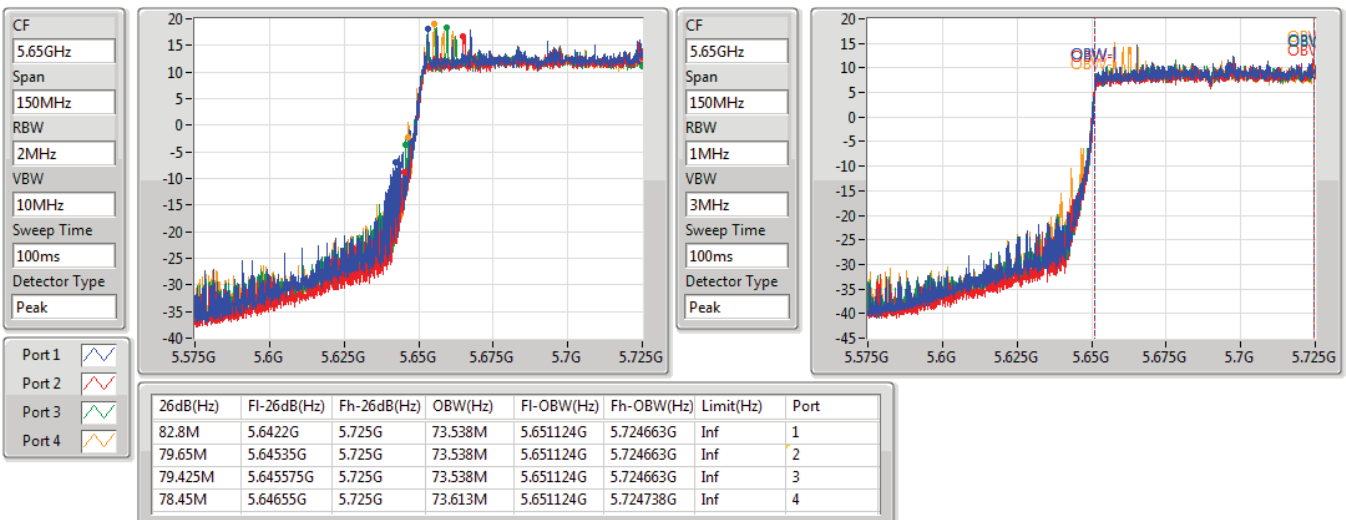


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

EBW

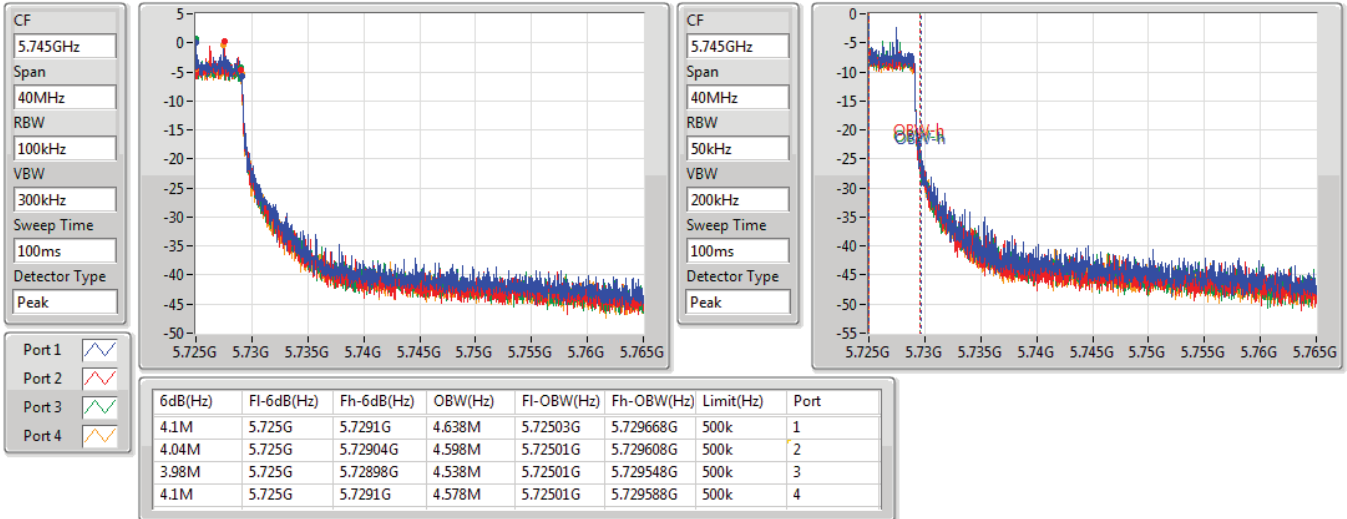
5690MHz Straddle 5.47-5.725GHz

20/01/2020

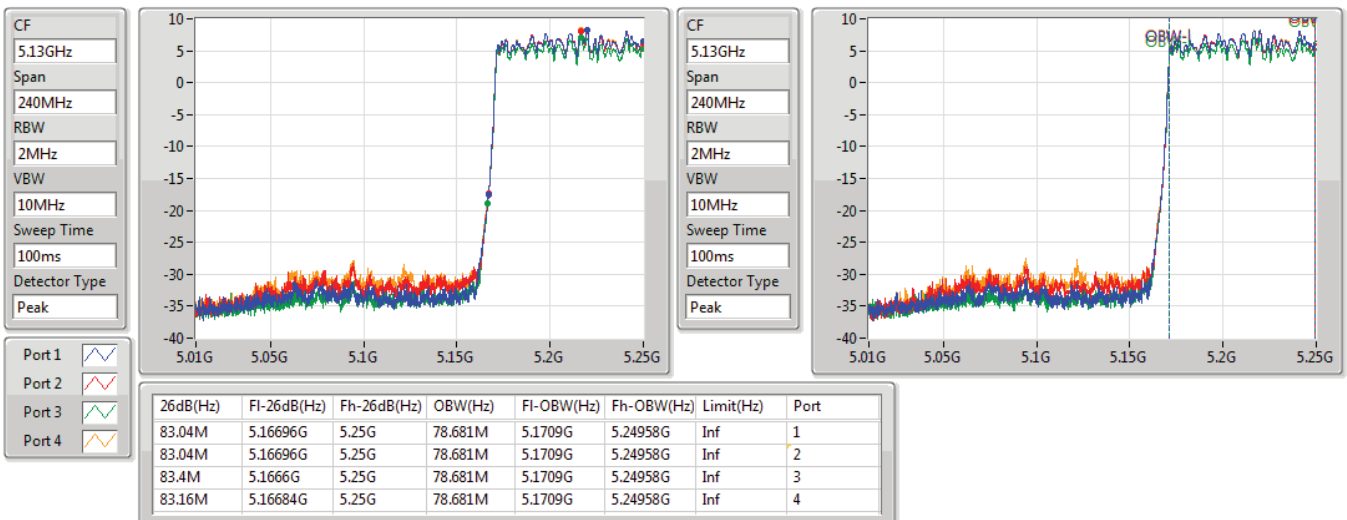


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5690MHz Straddle 5.725-5.85GHz

20/01/2020

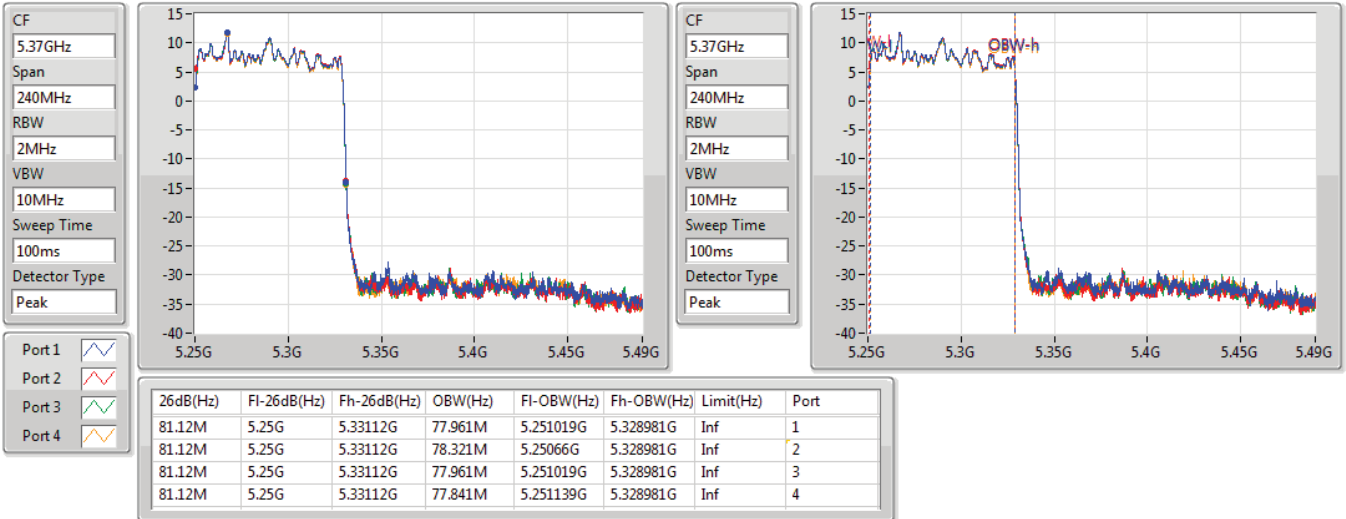

802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.15-5.25GHz

25/02/2020

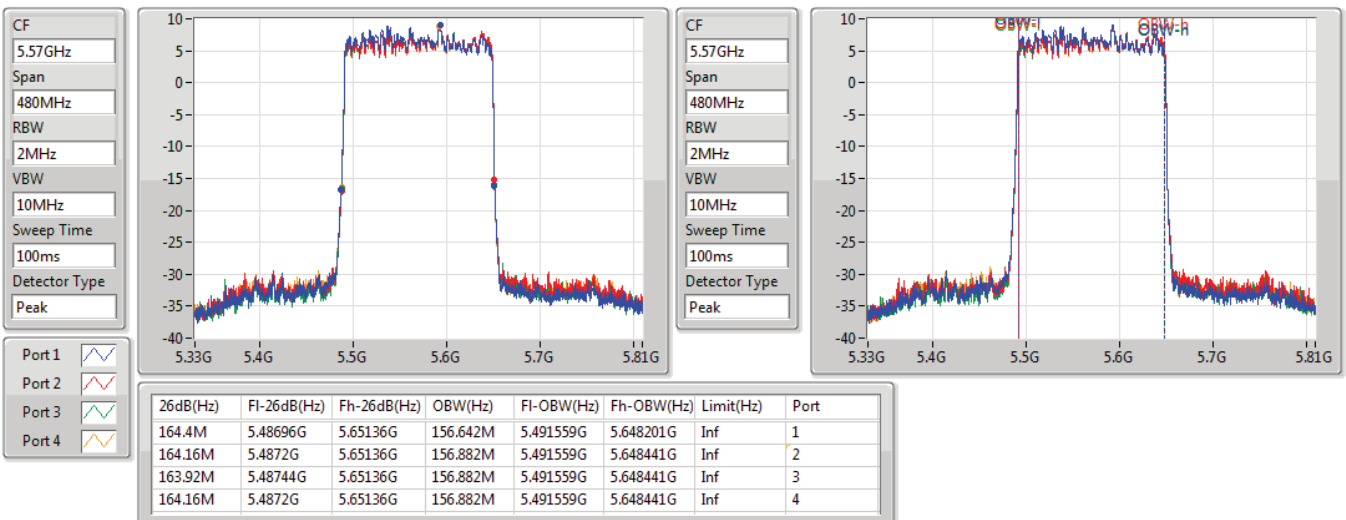


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5250MHz Straddle 5.25-5.35GHz

18/02/2020


802.11ax HEW160-BF_Nss1,(MCS0)_4TX
EBW
5570MHz

17/02/2020





Average Power_Non-Beamforming (4T4S)

Appendix B.1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT160_Nss4,(MCS0)_4TX	21.60	0.14454	24.10	0.25704
802.11ax HEW160_Nss4,(MCS0)_4TX	19.73	0.09397	22.23	0.16711
5.25-5.35GHz	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	23.60	0.22909	26.10	0.40738
802.11ac VHT40_Nss4,(MCS0)_4TX	23.69	0.23388	26.19	0.41591
802.11ac VHT80_Nss4,(MCS0)_4TX	23.66	0.23227	26.16	0.41305
802.11ac VHT160_Nss4,(MCS0)_4TX	21.68	0.14723	24.18	0.26182
802.11ax HEW20_Nss4,(MCS0)_4TX	23.87	0.24378	26.37	0.43351
802.11ax HEW40_Nss4,(MCS0)_4TX	23.93	0.24717	26.43	0.43954
802.11ax HEW80_Nss4,(MCS0)_4TX	22.81	0.19099	25.31	0.33963
802.11ax HEW160_Nss4,(MCS0)_4TX	19.73	0.09397	22.23	0.16711
5.47-5.725GHz	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	23.90	0.24547	25.90	0.38905
802.11ac VHT40_Nss4,(MCS0)_4TX	23.61	0.22961	25.61	0.36392
802.11ac VHT80_Nss4,(MCS0)_4TX	23.90	0.24547	25.90	0.38905
802.11ac VHT160_Nss4,(MCS0)_4TX	23.82	0.24099	25.82	0.38194
802.11ax HEW20_Nss4,(MCS0)_4TX	23.69	0.23388	25.69	0.37068
802.11ax HEW40_Nss4,(MCS0)_4TX	23.92	0.24660	25.92	0.39084
802.11ax HEW80_Nss4,(MCS0)_4TX	23.32	0.21478	25.32	0.34041
802.11ax HEW160_Nss4,(MCS0)_4TX	22.69	0.18578	24.69	0.29444
5.725-5.85GHz	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	17.47	0.05585	19.37	0.08650
802.11ac VHT40_Nss4,(MCS0)_4TX	13.57	0.02275	15.47	0.03524
802.11ac VHT80_Nss4,(MCS0)_4TX	10.23	0.01054	12.13	0.01633
802.11ax HEW20_Nss4,(MCS0)_4TX	17.52	0.05649	19.42	0.08750
802.11ax HEW40_Nss4,(MCS0)_4TX	14.33	0.02710	16.23	0.04198
802.11ax HEW80_Nss4,(MCS0)_4TX	10.62	0.01153	12.52	0.01786



Average Power_Non-Beamforming (4T4S)

Appendix B.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	2.50	17.68	17.45	17.42	17.55	23.55	24.00	26.05	30.00
5300MHz	Pass	2.50	17.75	17.45	17.41	17.68	23.60	24.00	26.10	30.00
5320MHz	Pass	2.50	17.77	17.22	17.29	17.61	23.50	24.00	26.00	30.00
5500MHz	Pass	2.00	18.01	17.6	17.58	18.28	23.90	24.00	25.90	30.00
5580MHz	Pass	2.00	17.95	17.74	17.54	17.97	23.82	24.00	25.82	30.00
5700MHz	Pass	2.00	18.05	18.45	15.82	18.52	23.86	24.00	25.86	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.00	16.77	16.73	17.01	17.05	22.91	23.54	24.91	29.54
5720MHz Straddle 5.725-5.85GHz	Pass	1.90	11.34	11.2	11.6	11.64	17.47	30.00	19.37	36.00
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	2.50	18.01	17.69	17.53	17.41	23.69	24.00	26.19	30.00
5310MHz	Pass	2.50	17.83	17.61	17.34	17.21	23.52	24.00	26.02	30.00
5510MHz	Pass	2.00	17.58	17.78	17.55	17.41	23.60	24.00	25.60	30.00
5550MHz	Pass	2.00	17.58	17.78	17.55	17.42	23.61	24.00	25.61	30.00
5670MHz	Pass	2.00	17.53	17.18	17.39	18.01	23.56	24.00	25.56	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.00	17.5	17.3	17.56	17.93	23.60	24.00	25.60	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	1.90	7.41	7.21	7.61	7.95	13.57	30.00	15.47	36.00
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	2.50	17.7	17.58	17.48	17.81	23.66	24.00	26.16	30.00
5530MHz	Pass	2.00	17.6	17.88	17.76	18.08	23.85	24.00	25.85	30.00
5610MHz	Pass	2.00	17.7	17.84	17.77	17.73	23.78	24.00	25.78	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	2.00	18.22	17.87	17.46	17.92	23.90	24.00	25.90	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	1.90	4.5	4.1	3.98	4.26	10.23	30.00	12.13	36.00
802.11ac VHT160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	2.50	15.44	15.64	15.42	15.8	21.60	30.00	24.10	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.50	15.68	15.57	15.49	15.89	21.68	24.00	24.18	30.00
5570MHz	Pass	2.00	17.68	17.81	17.62	18.06	23.82	24.00	25.82	30.00
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	2.50	17.99	17.55	17.49	17.99	23.78	24.00	26.28	30.00
5300MHz	Pass	2.50	17.83	18.07	17.47	17.99	23.87	24.00	26.37	30.00
5320MHz	Pass	2.50	17.74	17.8	17.41	17.99	23.76	24.00	26.26	30.00
5500MHz	Pass	2.00	17.85	17.48	17.47	17.82	23.68	24.00	25.68	30.00
5580MHz	Pass	2.00	17.68	17.54	17.39	17.55	23.56	24.00	25.56	30.00
5700MHz	Pass	2.00	17.73	18.19	16.08	18.35	23.69	24.00	25.69	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.00	16.67	16.48	17.02	16.43	22.68	22.71	24.68	28.71
5720MHz Straddle 5.725-5.85GHz	Pass	1.90	11.56	11.47	11.74	11.22	17.52	30.00	19.42	36.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	2.50	18.27	17.79	17.58	17.53	23.82	24.00	26.32	30.00
5310MHz	Pass	2.50	18.39	17.81	17.6	17.78	23.93	24.00	26.43	30.00
5510MHz	Pass	2.00	18.43	17.6	17.66	17.85	23.92	24.00	25.92	30.00
5550MHz	Pass	2.00	17.78	17.98	17.82	17.65	23.83	24.00	25.83	30.00
5670MHz	Pass	2.00	17.38	17.69	17.66	17.82	23.66	24.00	25.66	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.00	17.63	17.34	18	17.88	23.74	24.00	25.74	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	1.90	8.14	7.96	8.55	8.57	14.33	30.00	16.23	36.00



Average Power_Non-Beamforming (4T4S)

Appendix B.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	2.50	16.71	16.92	16.97	16.55	22.81	24.00	25.31	30.00
5530MHz	Pass	2.00	17	17.27	16.76	16.7	22.96	24.00	24.96	30.00
5610MHz	Pass	2.00	17.26	17.5	17.04	17.39	23.32	24.00	25.32	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	2.00	17.28	17.21	17.27	17.18	23.26	24.00	25.26	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	1.90	4.65	4.77	4.41	4.55	10.62	30.00	12.52	36.00
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	2.50	13.74	13.48	13.87	13.73	19.73	30.00	22.23	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.50	14.21	13.51	13.8	13.24	19.73	24.00	22.23	30.00
5570MHz	Pass	2.00	16.62	16.77	16.99	16.27	22.69	24.00	24.69	30.00

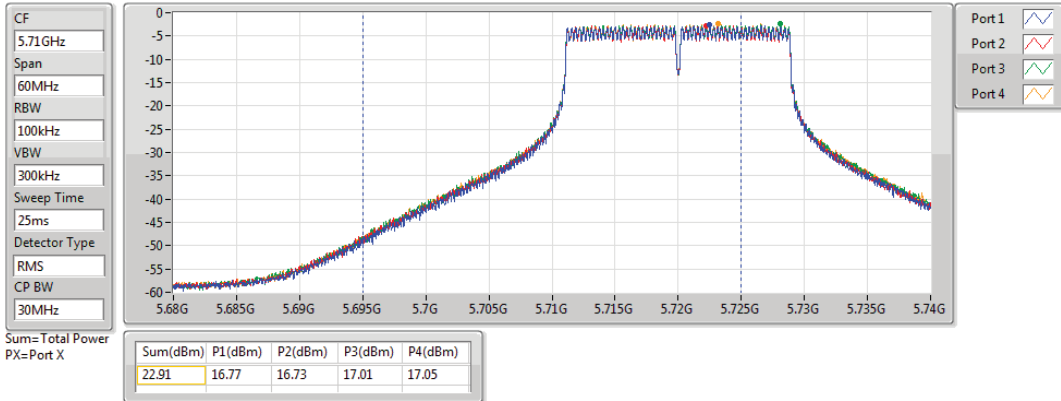
DG = Directional Gain; **Port X** = Port X output power

802.11ac VHT20_Nss4,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

31/12/2019

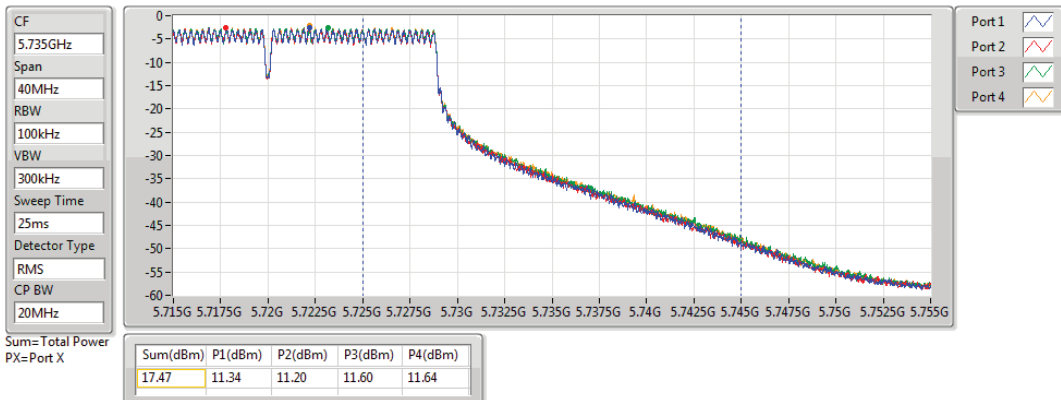


802.11ac VHT20_Nss4,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

31/12/2019

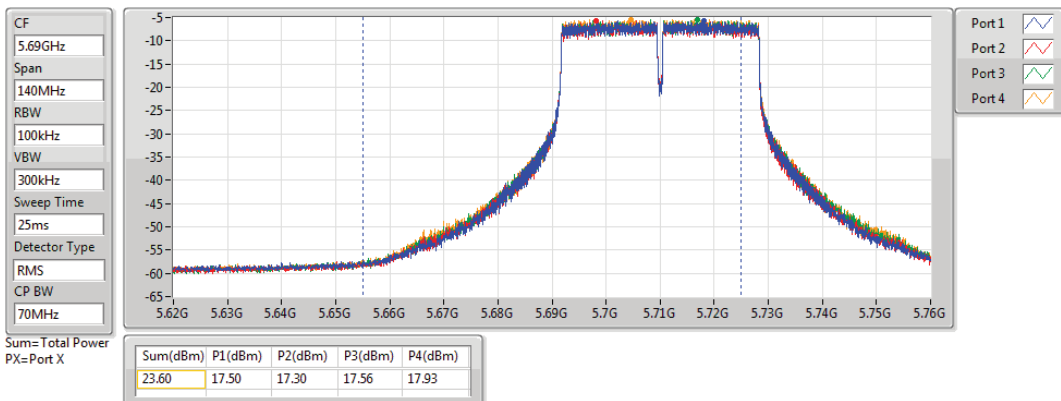


802.11ac VHT40_Nss4,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

31/12/2019

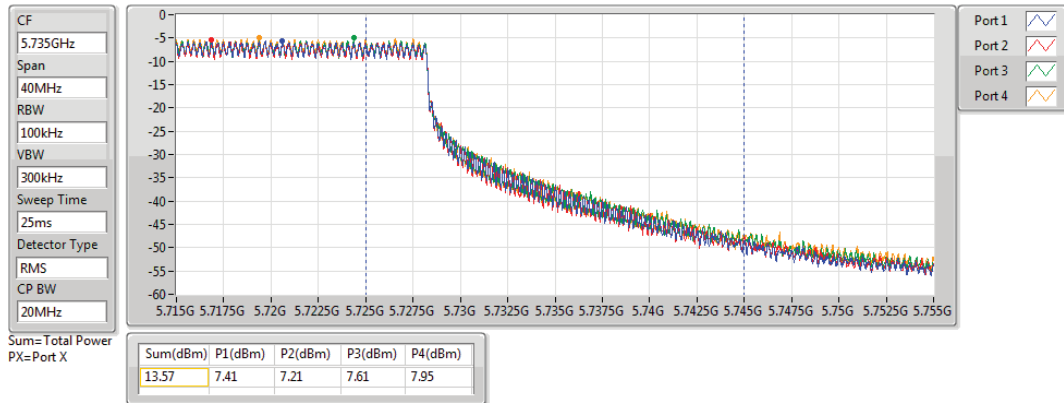


802.11ac VHT40_Nss4,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

31/12/2019

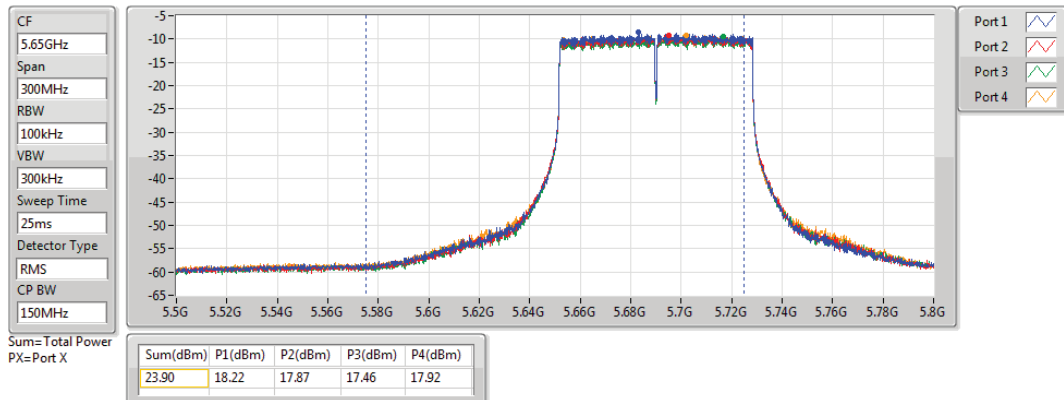


802.11ac VHT80_Nss4,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

31/12/2019

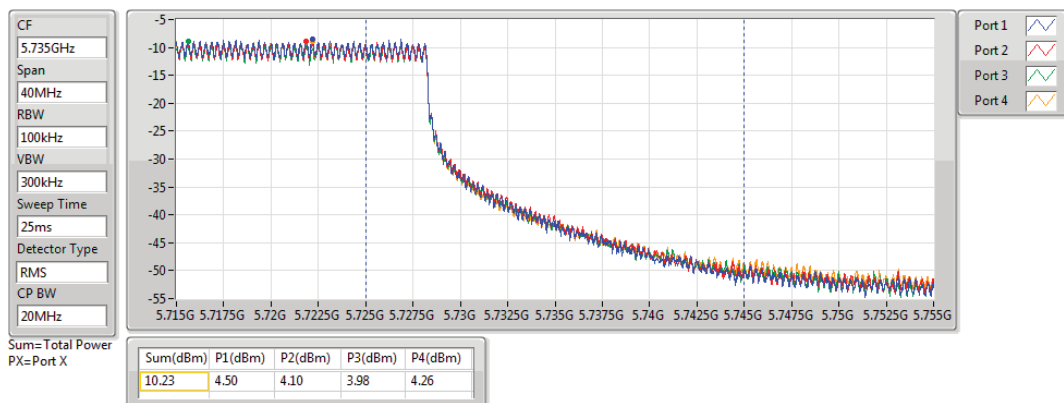


802.11ac VHT80_Nss4,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

31/12/2019

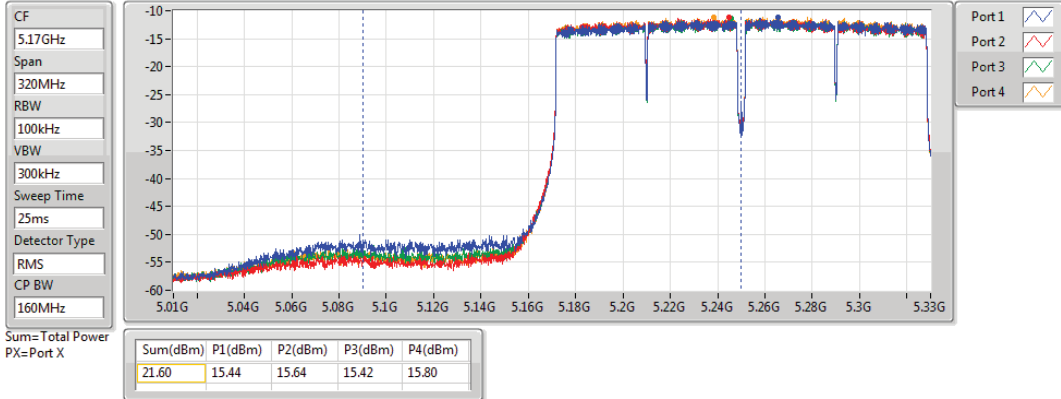


802.11ac VHT160_Nss4,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

31/12/2019

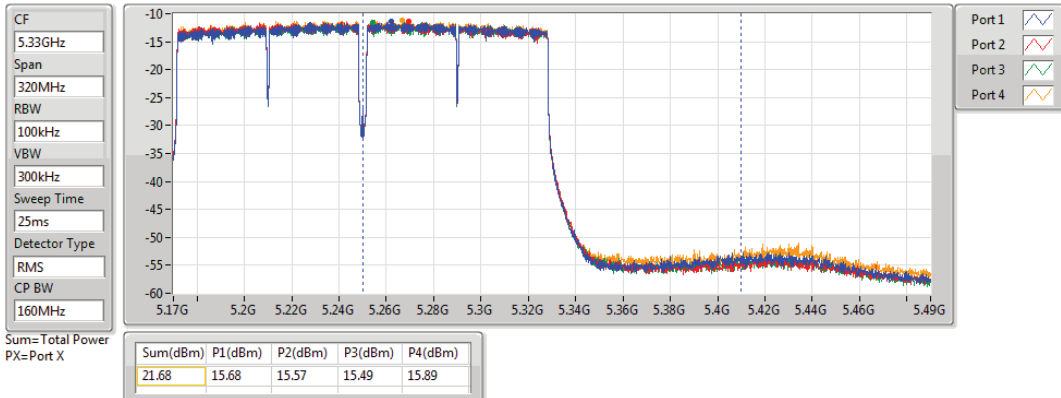


802.11ac VHT160_Nss4,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

31/12/2019

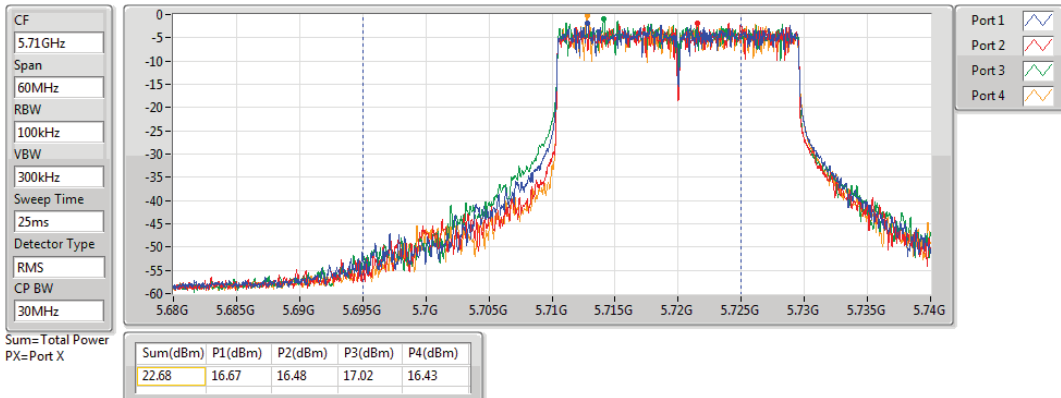


802.11ax HEW20_Nss4,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

17/12/2019

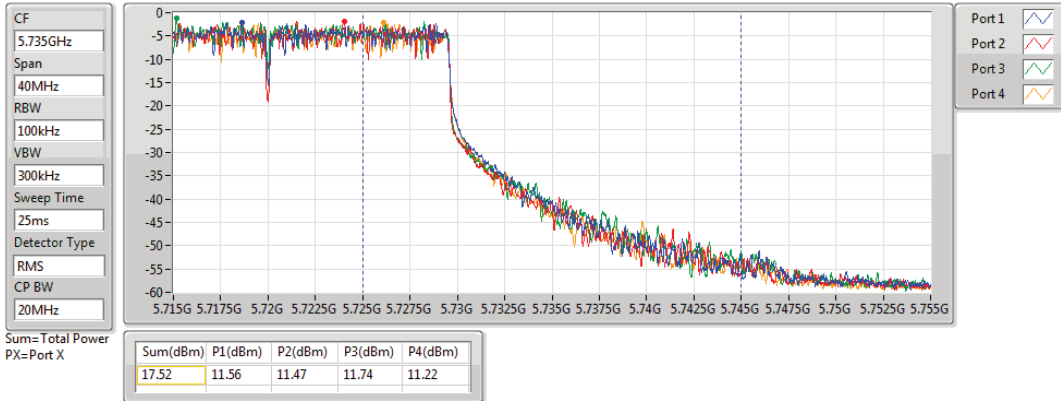


802.11ax HEW20_Nss4,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

17/12/2019

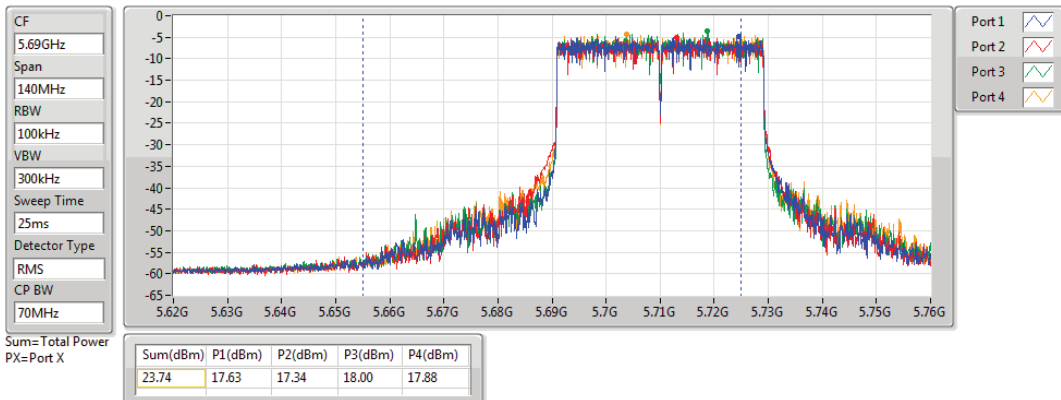


802.11ax HEW40_Nss4,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

20/12/2019

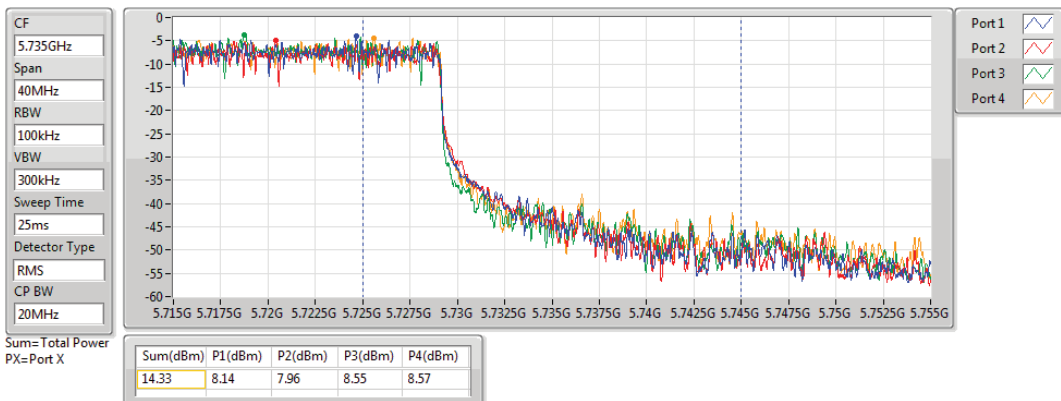


802.11ax HEW40_Nss4,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

20/12/2019

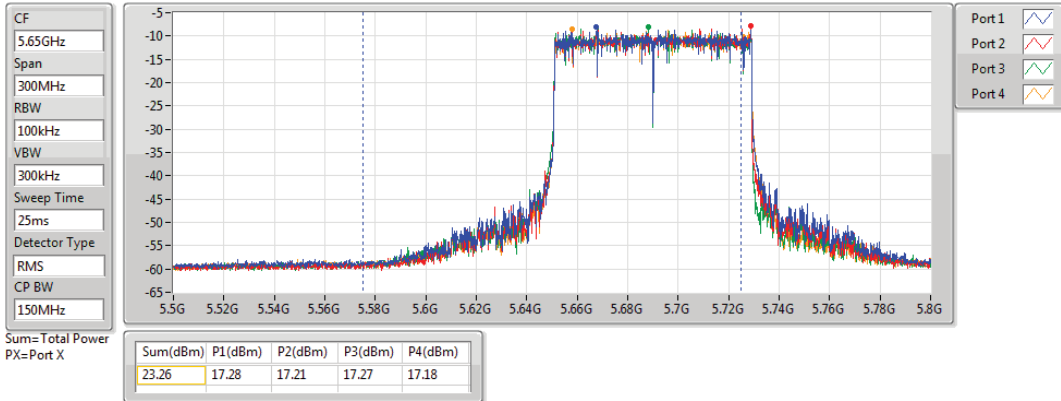


802.11ax HEW80_Nss4,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

24/12/2019

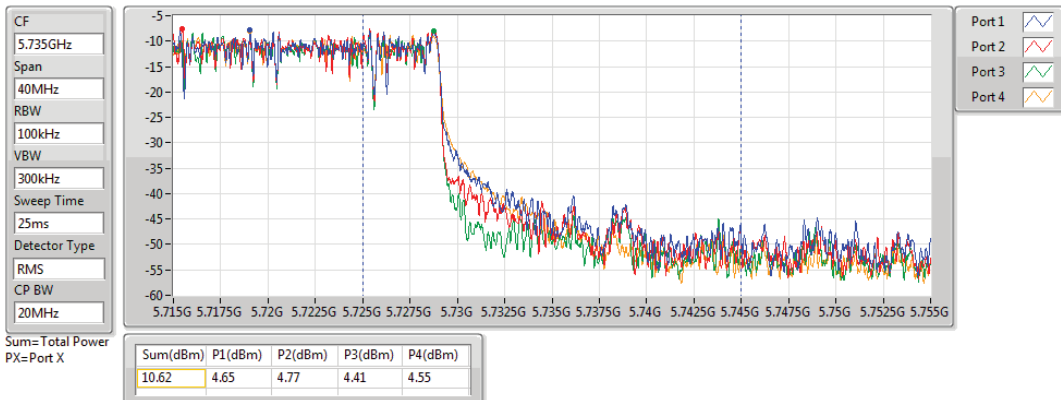


802.11ax HEW80_Nss4,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

24/12/2019

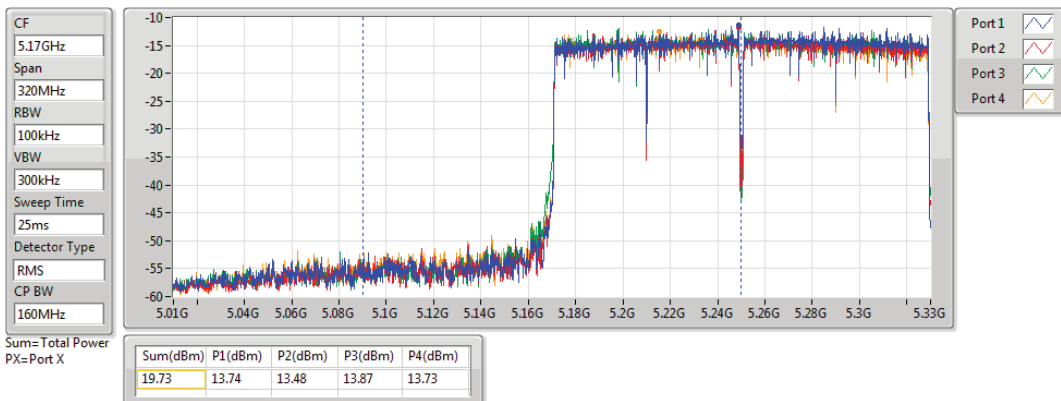


802.11ax HEW160_Nss4,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

04/01/2020



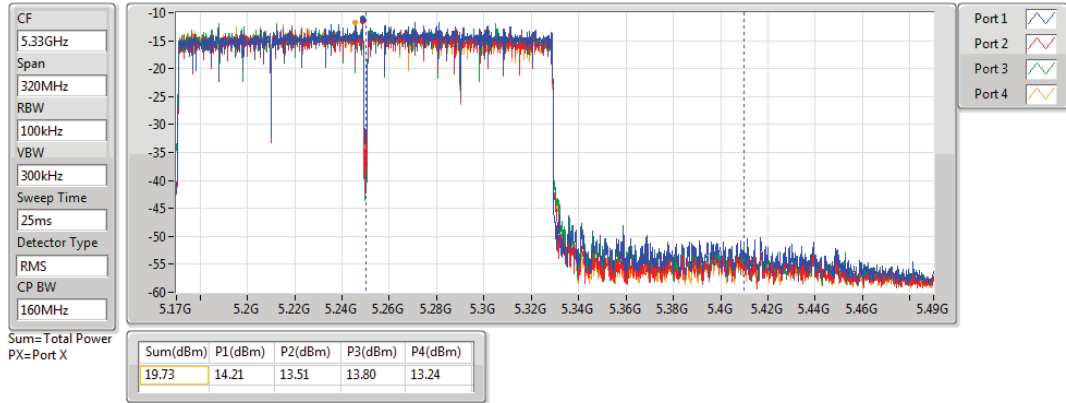


802.11ax HEW160_Nss4,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

04/01/2020



**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	18.03	0.06353	23.73	0.23605
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	21.74	0.14928	27.44	0.55463
5.25-5.35GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	23.68	0.23335	29.38	0.86696
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	23.75	0.23714	29.45	0.88105
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	23.64	0.23121	29.34	0.85901
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	18.05	0.06383	23.75	0.23714
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.79	0.23933	29.49	0.88920
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.74	0.23659	29.44	0.87902
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.74	0.23659	29.44	0.87902
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	22.02	0.15922	27.72	0.59156
5.47-5.725GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	23.54	0.22594	29.14	0.82035
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	23.64	0.23121	29.24	0.83946
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	23.74	0.23659	29.34	0.85901
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	21.00	0.12589	26.60	0.45709
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.76	0.23768	29.36	0.86298
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.79	0.23933	29.39	0.86896
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	23.89	0.24491	29.49	0.88920
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	23.19	0.20845	28.79	0.75683
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.50	0.05623	24.10	0.25704
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	13.59	0.02286	20.19	0.10447
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	9.93	0.00984	16.53	0.04498
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.19	0.06592	24.79	0.30130
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	14.58	0.02871	21.18	0.13122
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	11.12	0.01294	17.72	0.05916

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	5.70	17.91	17.74	17.58	17.4	23.68	24.00	29.38	30.00
5300MHz	Pass	5.70	17.99	17.53	17.45	17.04	23.54	24.00	29.24	30.00
5320MHz	Pass	5.70	16.85	16.45	16.96	16.45	22.70	24.00	28.40	30.00
5500MHz	Pass	5.60	16.94	16.45	16.69	16.83	22.75	24.00	28.35	30.00
5580MHz	Pass	5.60	18.2	17.38	17.16	17.24	23.54	24.00	29.14	30.00
5700MHz	Pass	5.60	17.33	17.01	17.36	16.83	23.16	24.00	28.76	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.60	17.08	16.47	16.79	17.15	22.90	23.71	28.50	29.71
5720MHz Straddle 5.725-5.85GHz	Pass	6.60	11.66	11.12	11.44	11.66	17.50	29.40	24.10	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	5.70	17.85	17.9	17.7	17.44	23.75	24.00	29.45	30.00
5310MHz	Pass	5.70	17.37	17.7	17.54	18.03	23.69	24.00	29.39	30.00
5510MHz	Pass	5.60	17.59	17.24	17.22	18.32	23.64	24.00	29.24	30.00
5550MHz	Pass	5.60	15.97	16.33	14.56	14.78	21.50	24.00	27.10	30.00
5670MHz	Pass	5.60	17.49	16.7	16.92	16.26	22.89	24.00	28.49	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.60	18.07	17.4	17.44	17.42	23.61	24.00	29.21	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.60	8.12	7.52	7.34	7.25	13.59	29.40	20.19	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	5.70	17.54	17.47	17.8	17.66	23.64	24.00	29.34	30.00
5530MHz	Pass	5.60	17.35	15.91	16.72	16.63	22.70	24.00	28.30	30.00
5610MHz	Pass	5.60	17.96	17.67	17.72	17.52	23.74	24.00	29.34	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.60	17.71	17.25	17.46	17.52	23.51	24.00	29.11	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.60	4.28	3.81	3.82	3.69	9.93	29.40	16.53	36.00
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.70	12.15	12.04	12.01	11.83	18.03	30.00	23.73	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.70	11.97	12.04	11.88	12.22	18.05	24.00	23.75	30.00
5570MHz	Pass	5.60	15.49	14.88	14.52	14.99	21.00	24.00	26.60	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	5.70	18.13	17.81	17.87	17.2	23.79	24.00	29.49	30.00
5300MHz	Pass	5.70	18.03	17.77	17.73	17.01	23.67	24.00	29.37	30.00
5320MHz	Pass	5.70	17.84	17.73	18.27	17.14	23.78	24.00	29.48	30.00
5500MHz	Pass	5.60	17.61	17.64	17.26	17.51	23.53	24.00	29.13	30.00
5580MHz	Pass	5.60	18.27	17.55	17.61	17.48	23.76	24.00	29.36	30.00
5700MHz	Pass	5.60	17.87	17.62	17.79	17.41	23.70	24.00	29.30	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.60	17.19	16.83	17.14	17.3	23.14	23.47	28.74	29.47
5720MHz Straddle 5.725-5.85GHz	Pass	6.60	12.28	11.89	12.1	12.39	18.19	29.40	24.79	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	5.70	17.72	17.76	17.98	17.16	23.69	24.00	29.39	30.00
5310MHz	Pass	5.70	17.75	17.72	18.01	17.37	23.74	24.00	29.44	30.00
5510MHz	Pass	5.60	17.91	17.44	17.49	18.09	23.76	24.00	29.36	30.00
5550MHz	Pass	5.60	18.12	17.69	17.35	17.61	23.72	24.00	29.32	30.00
5670MHz	Pass	5.60	18.14	17.44	17.09	17.73	23.64	24.00	29.24	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.60	18.15	17.45	17.84	17.62	23.79	24.00	29.39	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.60	9.15	8.44	8.35	8.24	14.58	29.40	21.18	36.00



Average Power_Beamforming (4T1S)

Appendix B.2

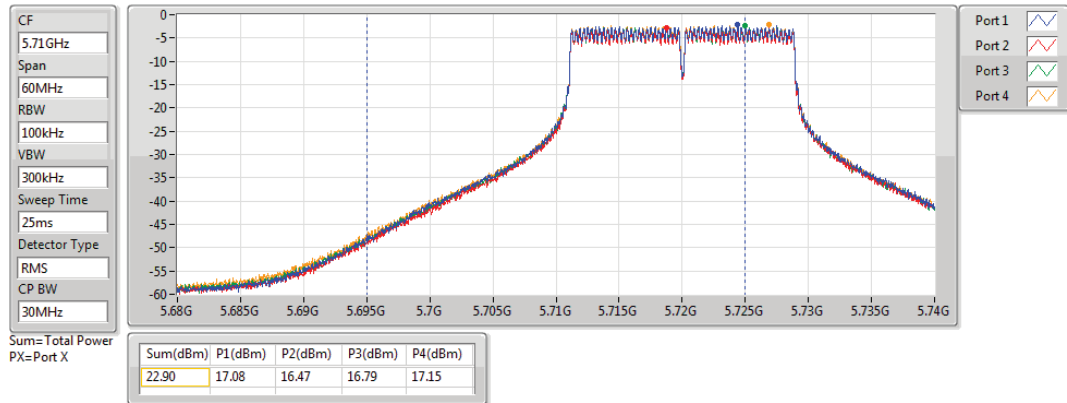
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	5.70	17.74	17.69	18.03	17.39	23.74	24.00	29.44	30.00
5530MHz	Pass	5.60	18.25	17.24	17.43	17.98	23.76	24.00	29.36	30.00
5610MHz	Pass	5.60	17.83	17.62	17.85	17.49	23.72	24.00	29.32	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.60	18.15	17.66	17.88	17.78	23.89	24.00	29.49	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.60	5.45	5.12	5.03	4.75	11.12	29.40	17.72	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.70	15.87	15.74	15.73	15.55	21.74	30.00	27.44	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.70	16.11	16.1	15.99	15.8	22.02	24.00	27.72	30.00
5570MHz	Pass	5.60	17.46	17.11	17.12	16.96	23.19	24.00	28.79	30.00

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

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

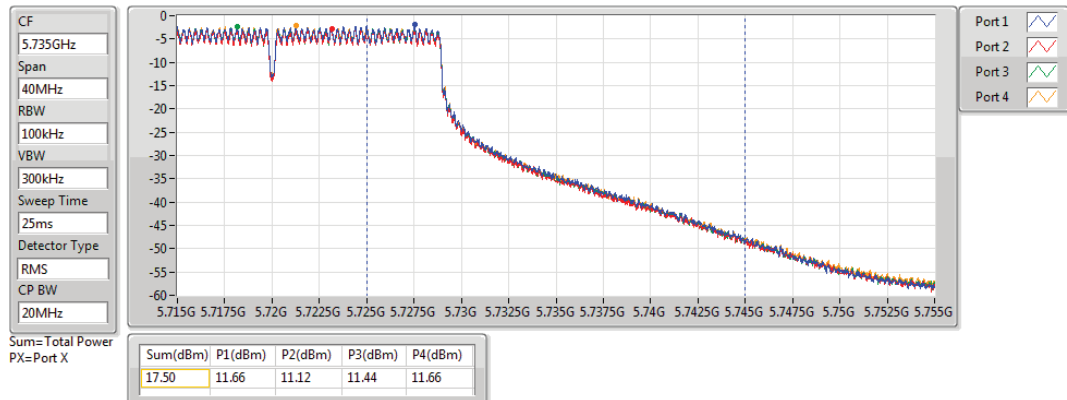
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

AV Power

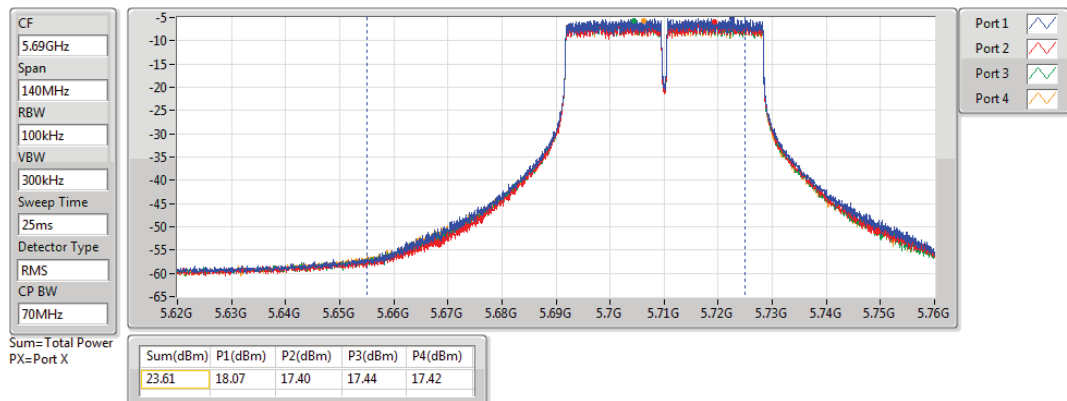
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

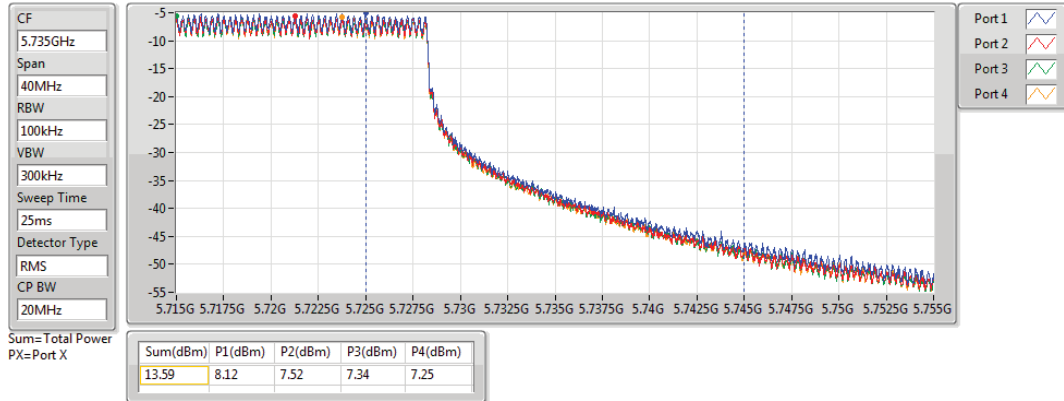


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

20/01/2020

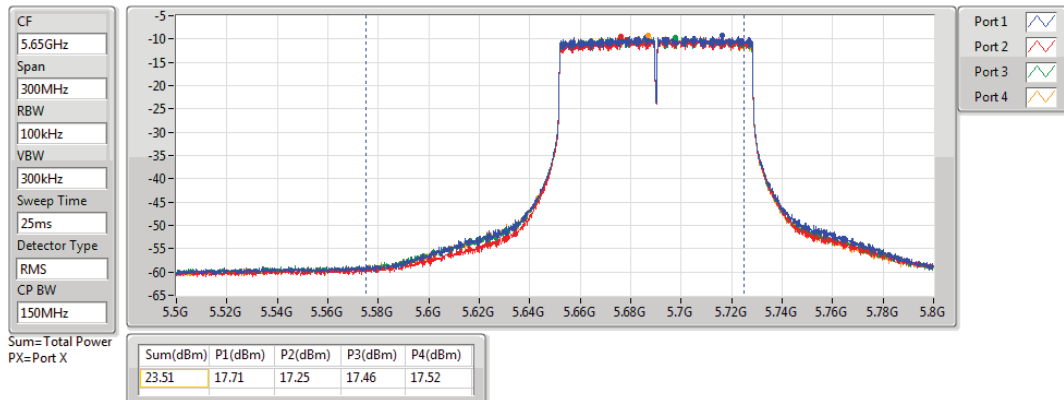


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

21/01/2020

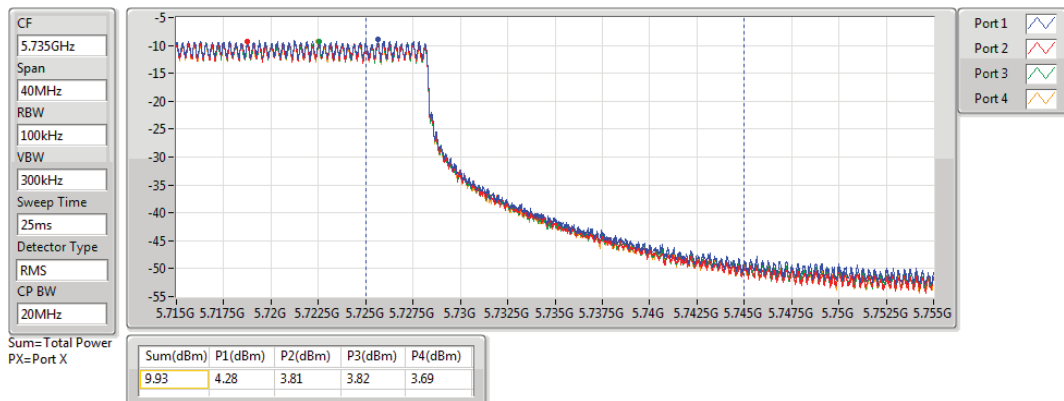


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

21/01/2020

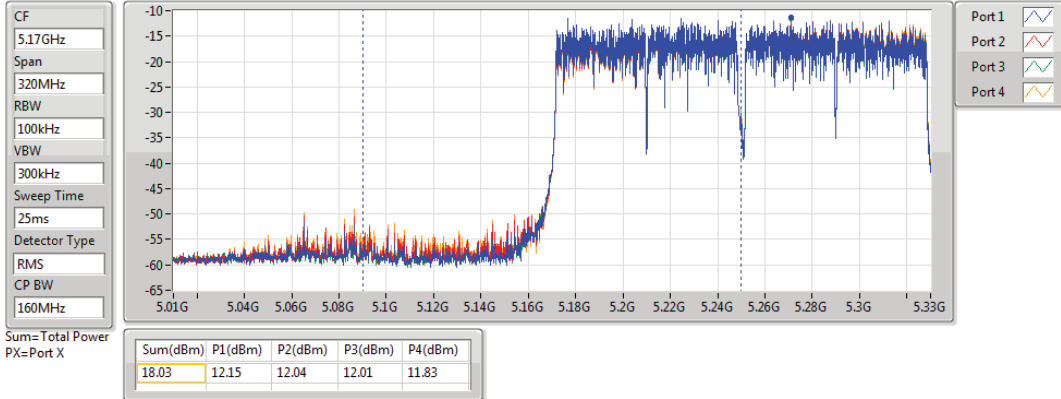


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

18/02/2020

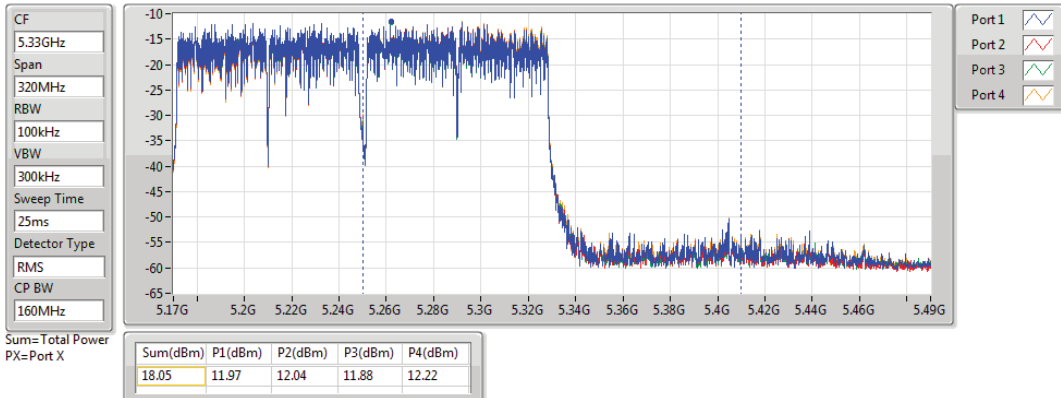


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

18/02/2020

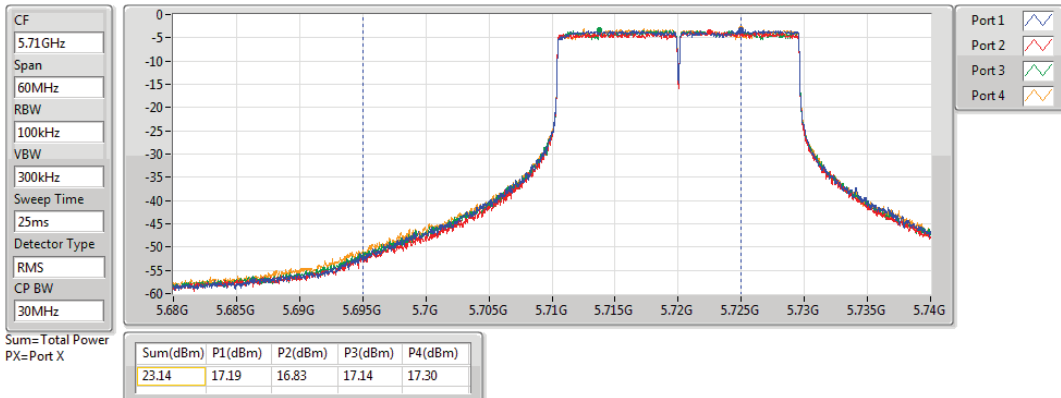


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.47-5.725GHz

20/01/2020

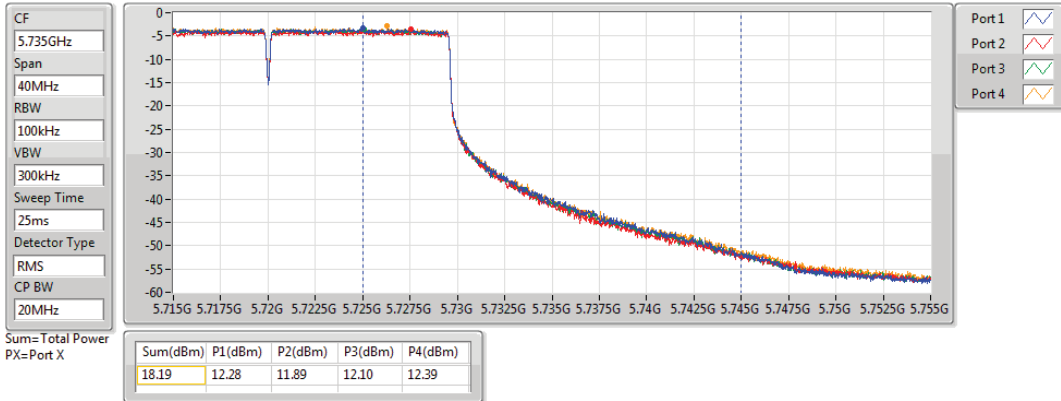


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz

20/01/2020

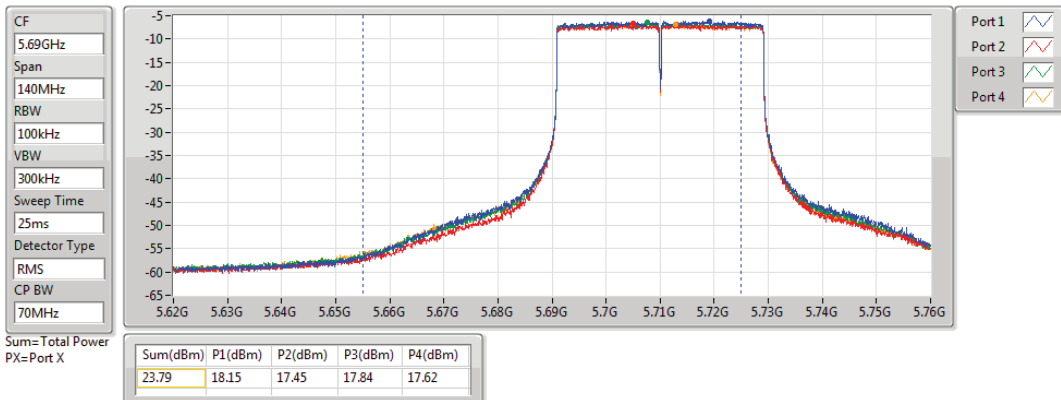


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz

20/01/2020

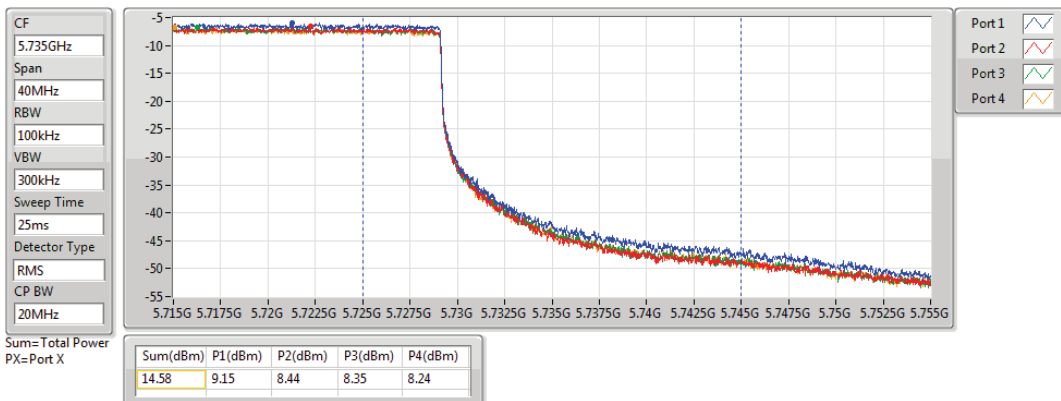


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz

20/01/2020

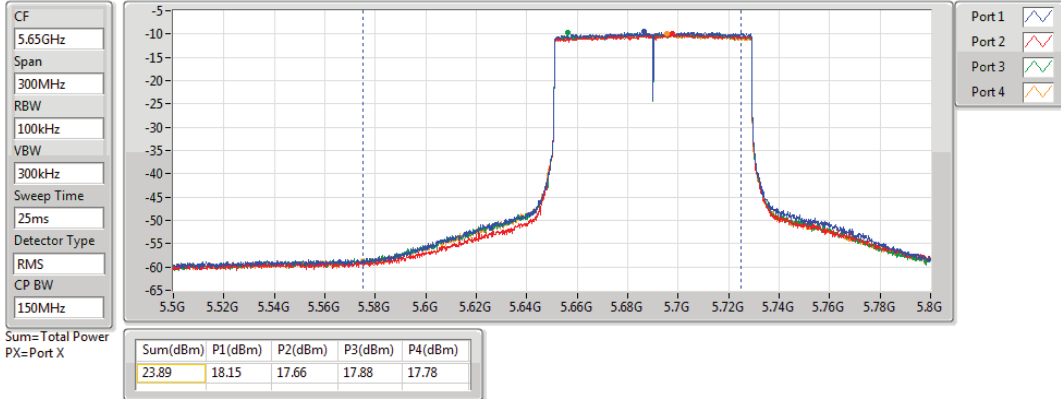


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.47-5.725GHz

20/01/2020

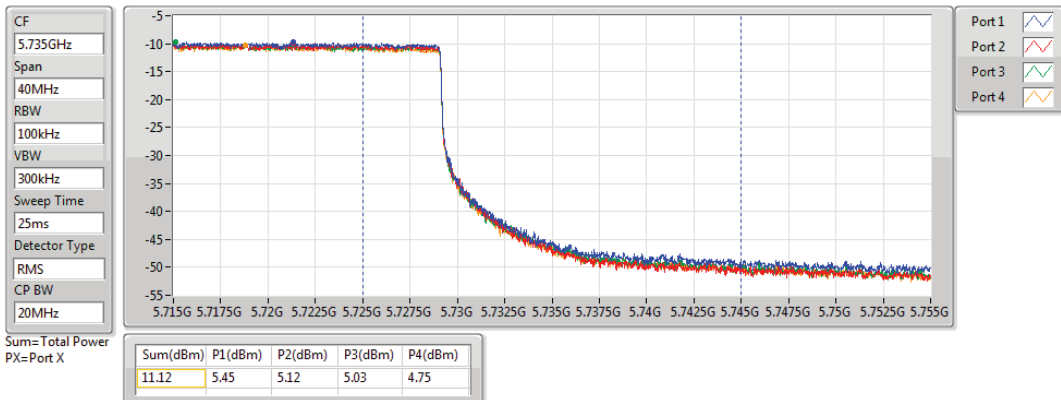


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

AV Power

5690MHz Straddle 5.725-5.85GHz

20/01/2020

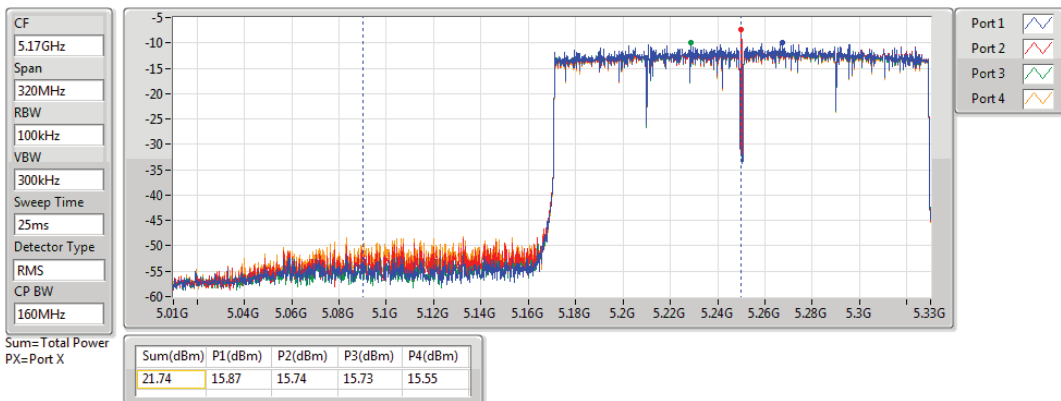


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.15-5.25GHz

18/02/2020

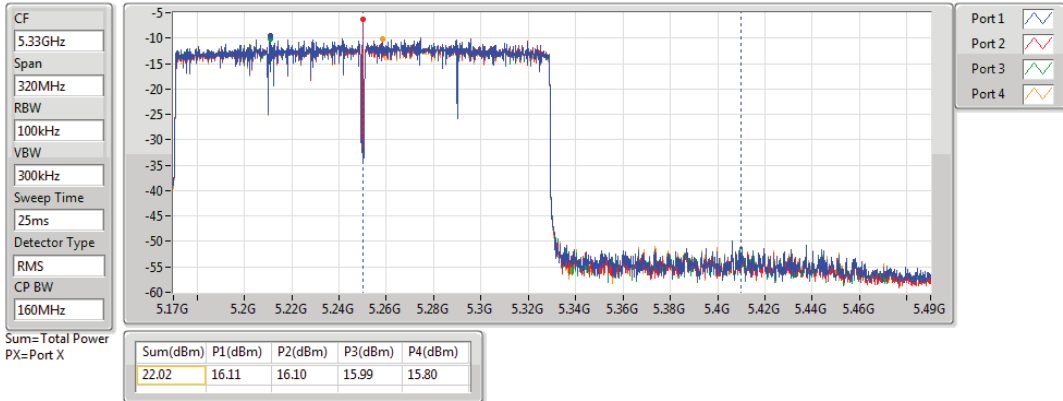


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

AV Power

5250MHz Straddle 5.25-5.35GHz

18/02/2020



**Summary**

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT160_Nss4,(MCS0)_4TX	2.1	4.60
802.11ax HEW160_Nss4,(MCS0)_4TX	0.92	3.42
5.25-5.35GHz	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	9.5	12.00
802.11ac VHT40_Nss4,(MCS0)_4TX	7.31	9.81
802.11ac VHT80_Nss4,(MCS0)_4TX	4.19	6.69
802.11ac VHT160_Nss4,(MCS0)_4TX	2.17	4.67
802.11ax HEW20_Nss4,(MCS0)_4TX	10.01	12.51
802.11ax HEW40_Nss4,(MCS0)_4TX	6.59	9.09
802.11ax HEW80_Nss4,(MCS0)_4TX	3.99	6.49
802.11ax HEW160_Nss4,(MCS0)_4TX	0.48	2.98
5.47-5.725GHz	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	10.6	12.60
802.11ac VHT40_Nss4,(MCS0)_4TX	7.8	9.80
802.11ac VHT80_Nss4,(MCS0)_4TX	4.37	6.37
802.11ac VHT160_Nss4,(MCS0)_4TX	1.58	3.58
802.11ax HEW20_Nss4,(MCS0)_4TX	10.87	12.87
802.11ax HEW40_Nss4,(MCS0)_4TX	7.83	9.83
802.11ax HEW80_Nss4,(MCS0)_4TX	4.24	6.24
802.11ax HEW160_Nss4,(MCS0)_4TX	1.52	3.52
5.725-5.85GHz	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	8.95	10.85
802.11ac VHT40_Nss4,(MCS0)_4TX	6.07	7.97
802.11ac VHT80_Nss4,(MCS0)_4TX	2.47	4.37
802.11ax HEW20_Nss4,(MCS0)_4TX	8.48	10.38
802.11ax HEW40_Nss4,(MCS0)_4TX	5.71	7.61
802.11ax HEW80_Nss4,(MCS0)_4TX	3.27	5.17

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	2.50	3.84	3.41	3.42	3.56	9.46	11.00	11.96	17.00
5300MHz	Pass	2.50	3.91	3.4	3.41	3.69	9.50	11.00	12.00	17.00
5320MHz	Pass	2.50	3.77	3.14	3.24	3.57	9.39	11.00	11.89	17.00
5500MHz	Pass	2.00	4.75	4.2	4.17	4.93	10.47	11.00	12.47	17.00
5580MHz	Pass	2.00	4.57	4.31	4.14	4.64	10.38	11.00	12.38	17.00
5700MHz	Pass	2.00	5.1	3.89	4.49	4.49	10.46	11.00	12.46	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.00	4.54	4.62	4.75	4.83	10.60	11.00	12.60	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	1.90	2.87	2.72	3.18	3.24	8.95	30.00	10.85	36.00
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	2.50	2.2	1.62	1.34	1.35	7.31	11.00	9.81	17.00
5310MHz	Pass	2.50	1.92	1.53	1.04	1.07	7.21	11.00	9.71	17.00
5510MHz	Pass	2.00	1.46	1.07	0.93	1.47	7.04	11.00	9.04	17.00
5550MHz	Pass	2.00	1.46	1.53	1.32	1.27	7.19	11.00	9.19	17.00
5670MHz	Pass	2.00	1.51	1.28	1.54	2.07	7.31	11.00	9.31	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.00	2.13	1.89	1.94	2.27	7.80	11.00	9.80	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	1.90	0.52	-0.67	-0.34	0.58	6.07	30.00	7.97	36.00
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	2.50	-1.7	-1.9	-1.98	-1.58	4.19	11.00	6.69	17.00
5530MHz	Pass	2.00	-1.73	-1.53	-1.72	-1.35	4.36	11.00	6.36	17.00
5610MHz	Pass	2.00	-1.71	-1.62	-1.67	-1.73	4.28	11.00	6.28	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	2.00	-1.18	-1.5	-1.98	-1.59	4.37	11.00	6.37	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	1.90	-3.23	-3.57	-3.77	-3.48	2.47	30.00	4.37	36.00
802.11ac VHT160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	2.50	-3.95	-3.91	-4.04	-3.63	2.10	17.00	4.60	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.50	-3.73	-3.87	-3.97	-3.51	2.17	11.00	4.67	17.00
5570MHz	Pass	2.00	-4.39	-4.29	-4.66	-4.03	1.58	11.00	3.58	17.00
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	2.50	4.06	4.4	4.03	4.84	9.73	11.00	12.23	17.00
5300MHz	Pass	2.50	3.9	4.75	4.7	4.23	10.01	11.00	12.51	17.00
5320MHz	Pass	2.50	4.03	4.33	3.98	4.18	9.69	11.00	12.19	17.00
5500MHz	Pass	2.00	4.11	4.09	4.4	4.27	9.65	11.00	11.65	17.00
5580MHz	Pass	2.00	4.14	4.22	3.89	4.02	9.51	11.00	11.51	17.00
5700MHz	Pass	2.00	5.35	4.56	4.75	4.95	10.87	11.00	12.87	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.00	4.66	4.39	4.97	5.08	10.41	11.00	12.41	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	1.90	2.59	2.83	2.91	2.5	8.48	30.00	10.38	36.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	2.50	1.15	0.68	0.6	0.38	6.45	11.00	8.95	17.00
5310MHz	Pass	2.50	1.26	0.49	0.81	0.64	6.59	11.00	9.09	17.00
5510MHz	Pass	2.00	1.06	0.46	1.59	1.2	6.94	11.00	8.94	17.00
5550MHz	Pass	2.00	0.74	0.96	0.96	0.79	6.59	11.00	8.59	17.00
5670MHz	Pass	2.00	0.11	0.76	0.89	0.7	6.47	11.00	8.47	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.00	1.61	1.75	2.81	2.21	7.83	11.00	9.83	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	1.90	-0.2	-0.25	0.31	0.07	5.71	30.00	7.61	36.00



PSD_Non-Beamforming (4T4S)

Appendix C.1

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	2.50	-1.86	-1.64	-1.75	-2.31	3.99	11.00	6.49	17.00
5530MHz	Pass	2.00	-1.6	-1.15	-1.57	-2.01	4.23	11.00	6.23	17.00
5610MHz	Pass	2.00	-1.68	-1.47	-1.69	-1.81	4.18	11.00	6.18	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	2.00	-1.53	-1.73	-1.62	-1.67	4.24	11.00	6.24	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	1.90	-2.9	-2.21	-2.59	-3.38	3.27	30.00	5.17	36.00
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	2.50	-4.72	-5.11	-4.59	-5.68	0.92	17.00	3.42	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	2.50	-5	-5.19	-5.32	-5.81	0.48	11.00	2.98	17.00
5570MHz	Pass	2.00	-4.69	-4.23	-3.74	-4.97	1.52	11.00	3.52	17.00

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

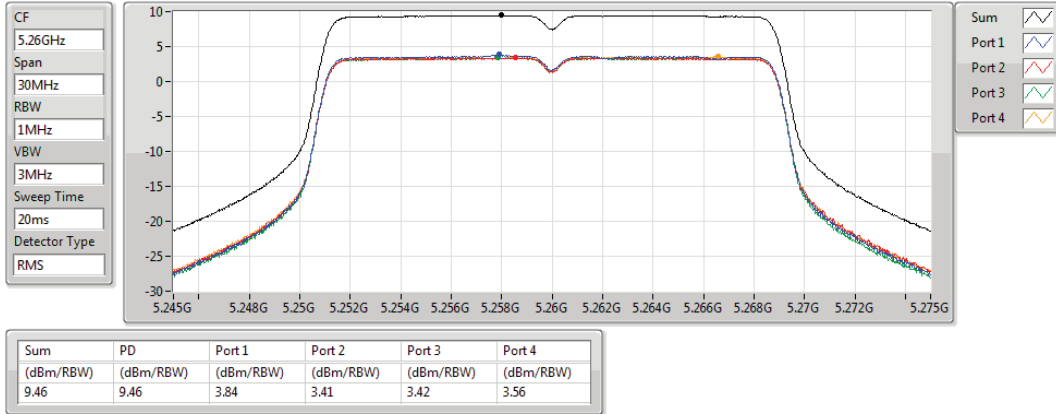
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ac VHT20_Nss4,(MCS0)_4TX

PSD

5260MHz

17/12/2019

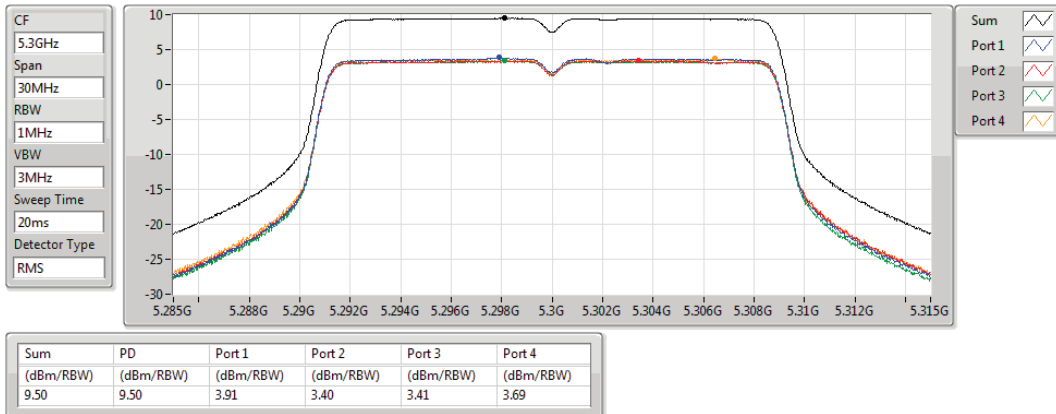


802.11ac VHT20_Nss4,(MCS0)_4TX

PSD

5300MHz

17/12/2019

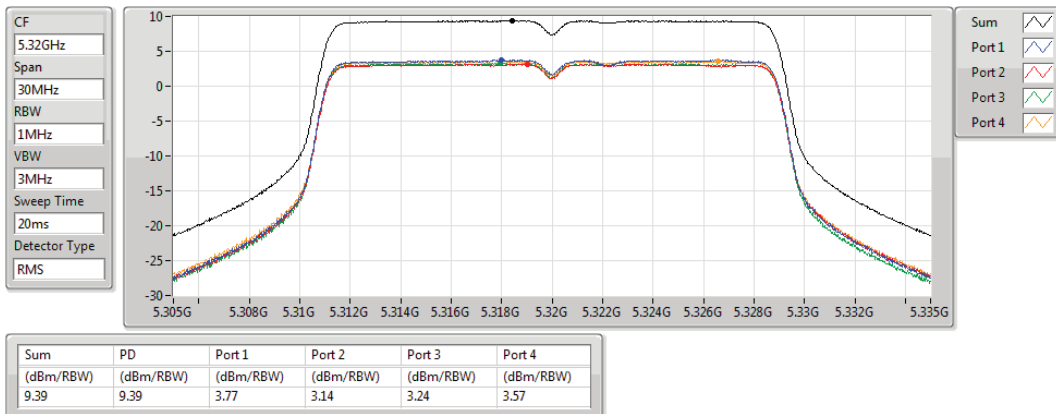


802.11ac VHT20_Nss4,(MCS0)_4TX

PSD

5320MHz

17/12/2019

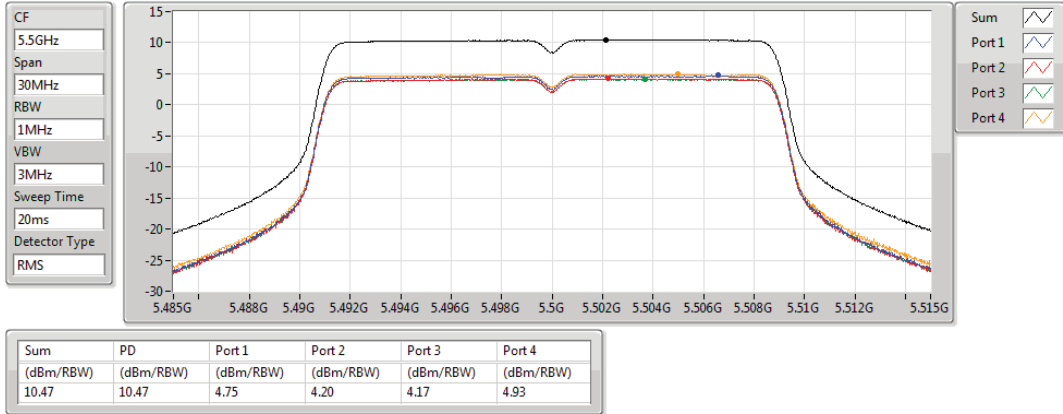


802.11ac VHT20_Nss4,(MCS0)_4TX

PSD

5500MHz

31/12/2019

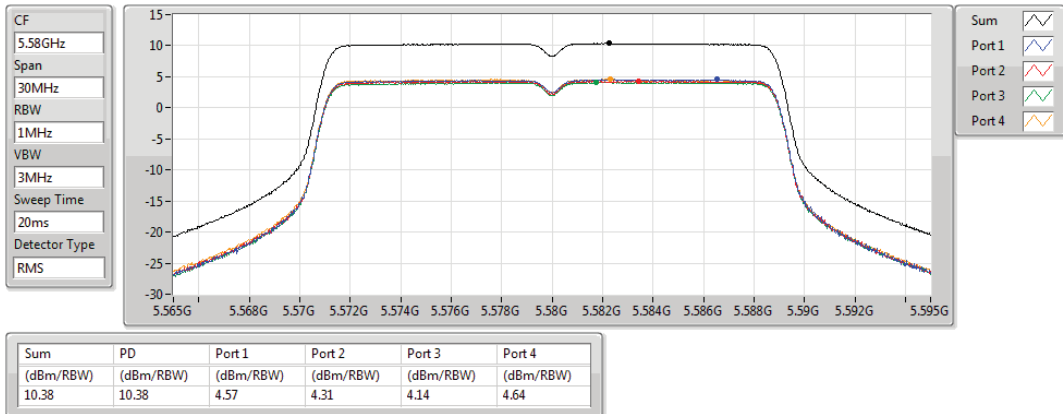


802.11ac VHT20_Nss4,(MCS0)_4TX

PSD

5580MHz

31/12/2019

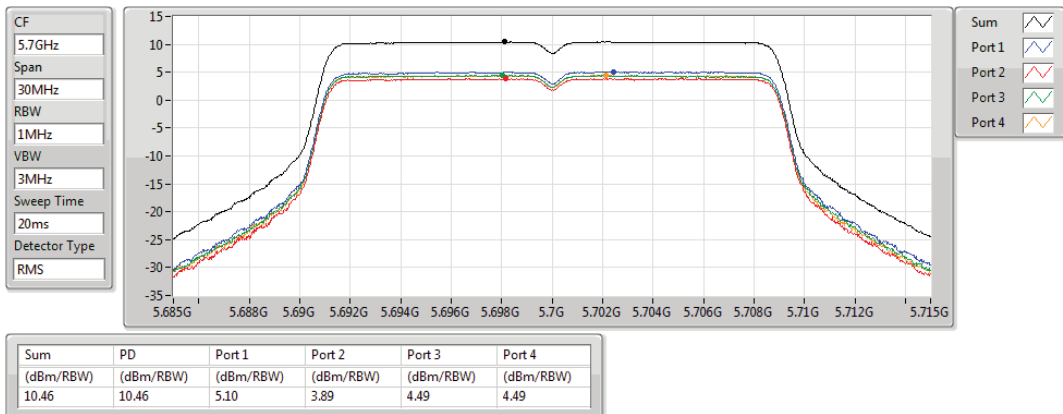


802.11ac VHT20_Nss4,(MCS0)_4TX

PSD

5700MHz

24/02/2020

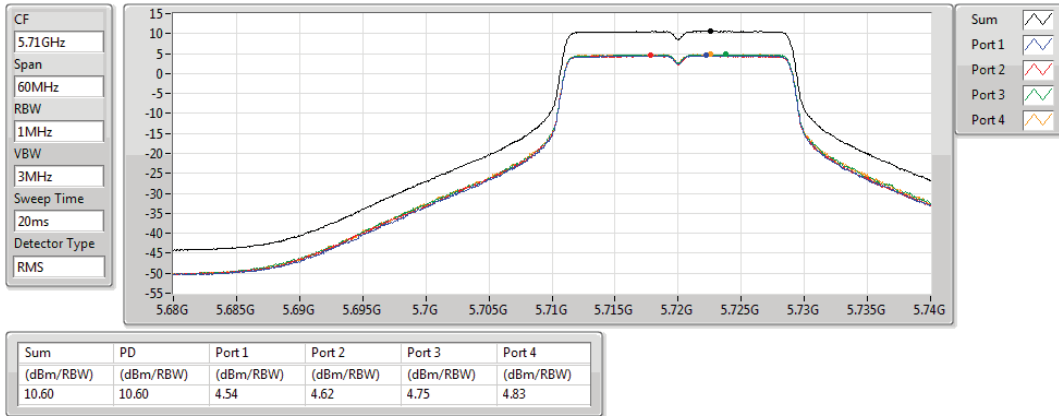


802.11ac VHT20_Nss4,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

31/12/2019

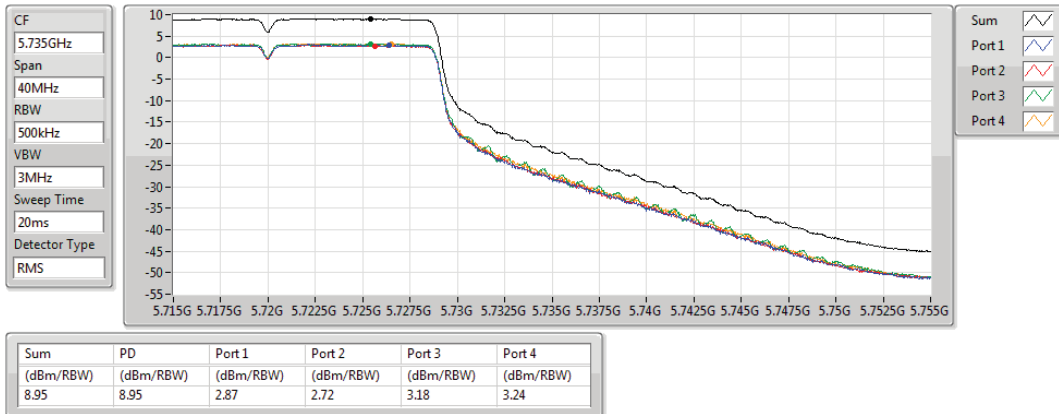


802.11ac VHT20_Nss4,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

31/12/2019

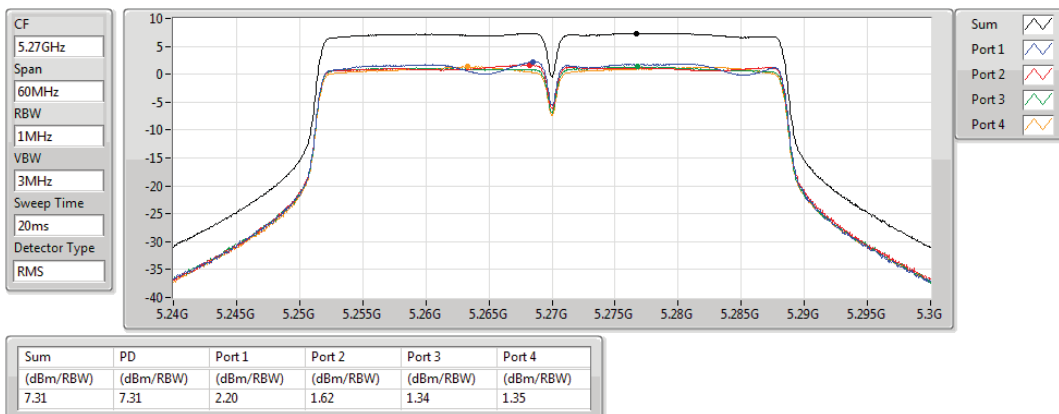


802.11ac VHT40_Nss4,(MCS0)_4TX

5270MHz

PSD

31/12/2019

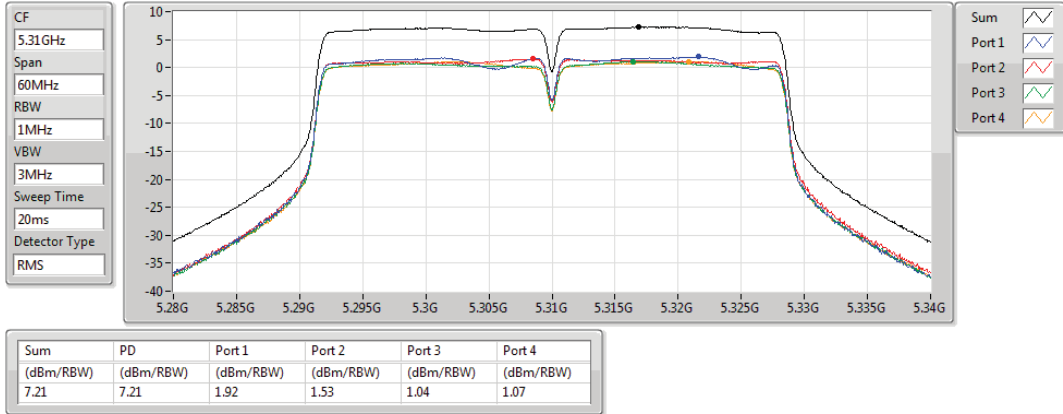


802.11ac VHT40_Nss4,(MCS0)_4TX

PSD

5310MHz

31/12/2019

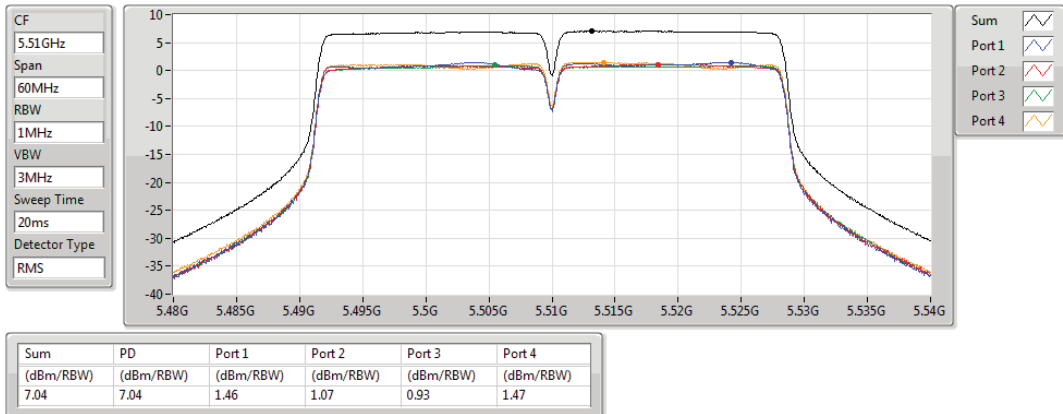


802.11ac VHT40_Nss4,(MCS0)_4TX

PSD

5510MHz

31/12/2019

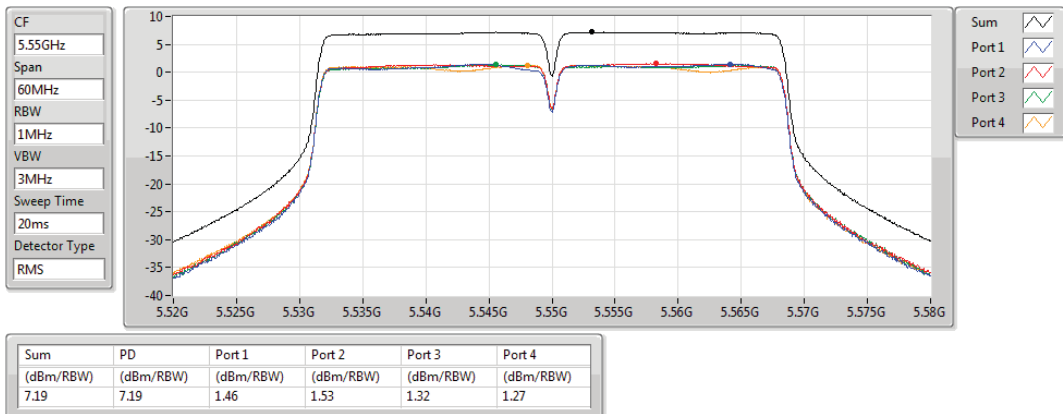


802.11ac VHT40_Nss4,(MCS0)_4TX

PSD

5550MHz

31/12/2019

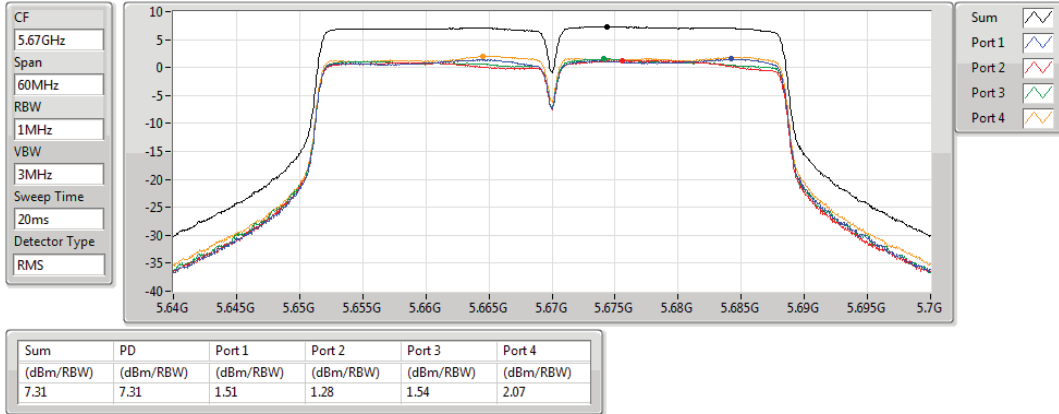


802.11ac VHT40_Nss4,(MCS0)_4TX

PSD

5670MHz

31/12/2019

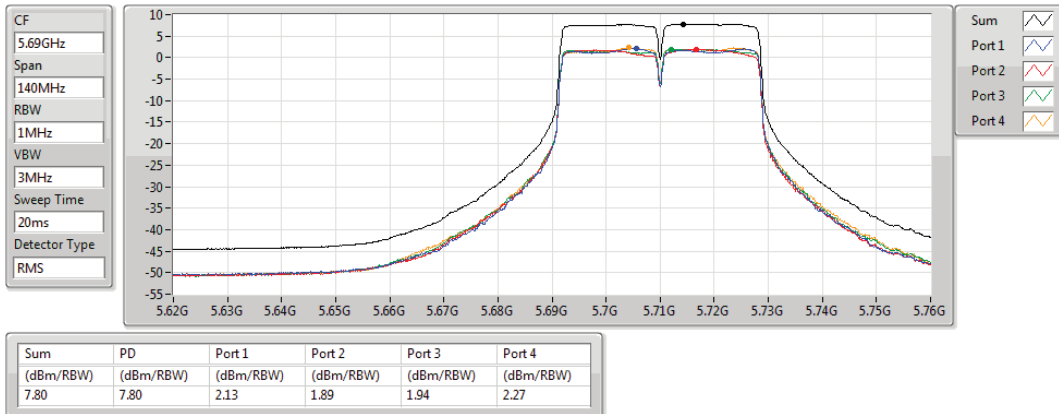


802.11ac VHT40_Nss4,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

31/12/2019

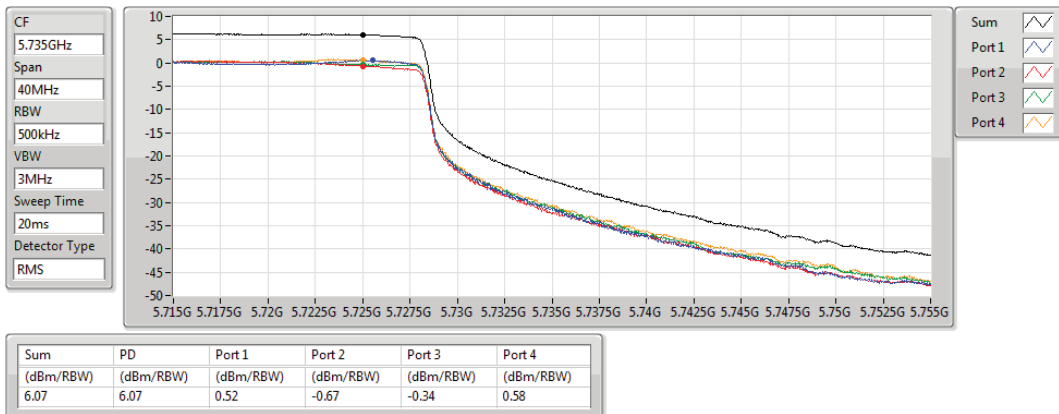


802.11ac VHT40_Nss4,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

31/12/2019

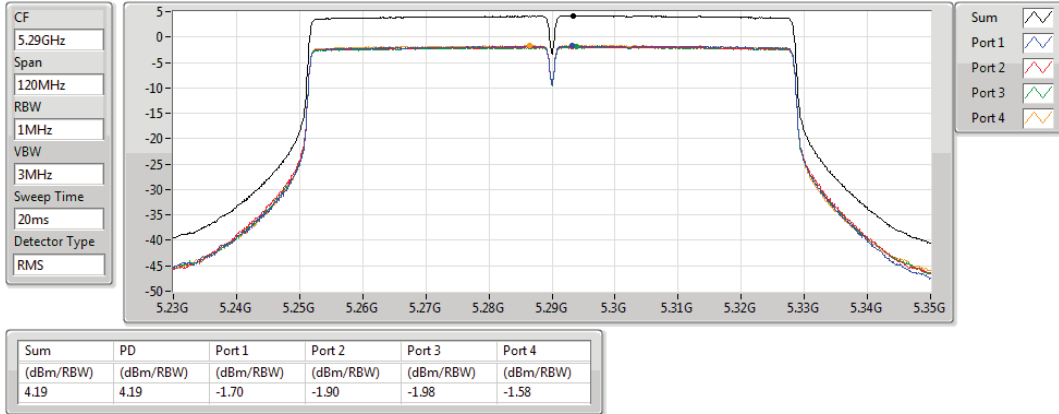


802.11ac VHT80_Nss4,(MCS0)_4TX

PSD

5290MHz

31/12/2019

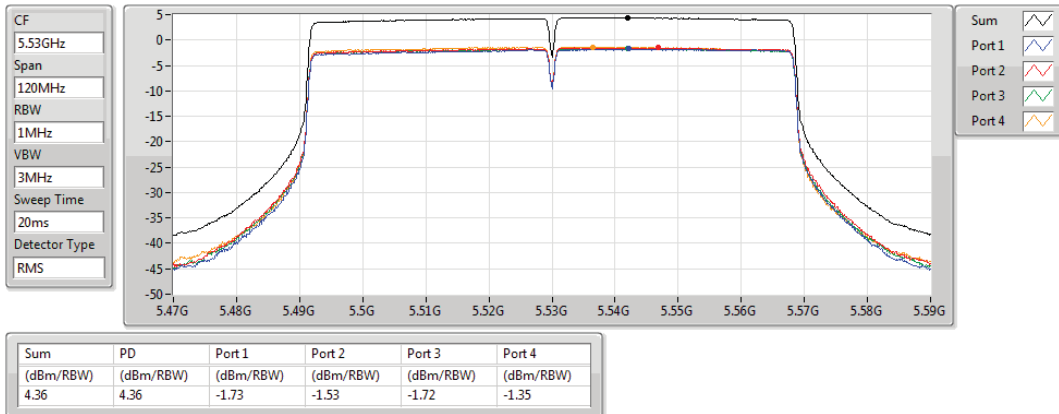


802.11ac VHT80_Nss4,(MCS0)_4TX

PSD

5530MHz

31/12/2019

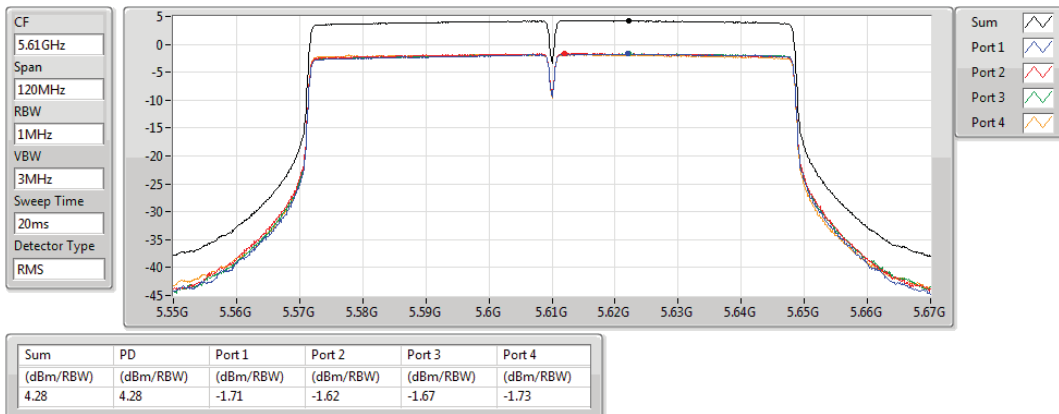


802.11ac VHT80_Nss4,(MCS0)_4TX

PSD

5610MHz

31/12/2019

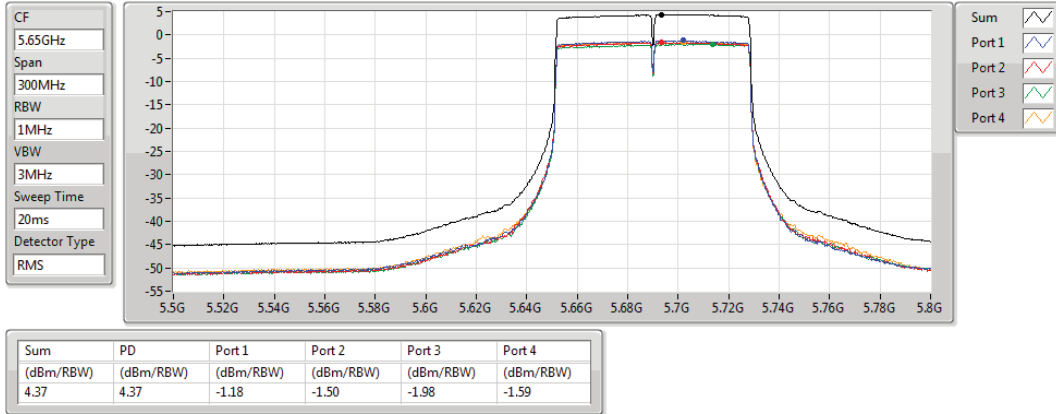


802.11ac VHT80_Nss4,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

31/12/2019

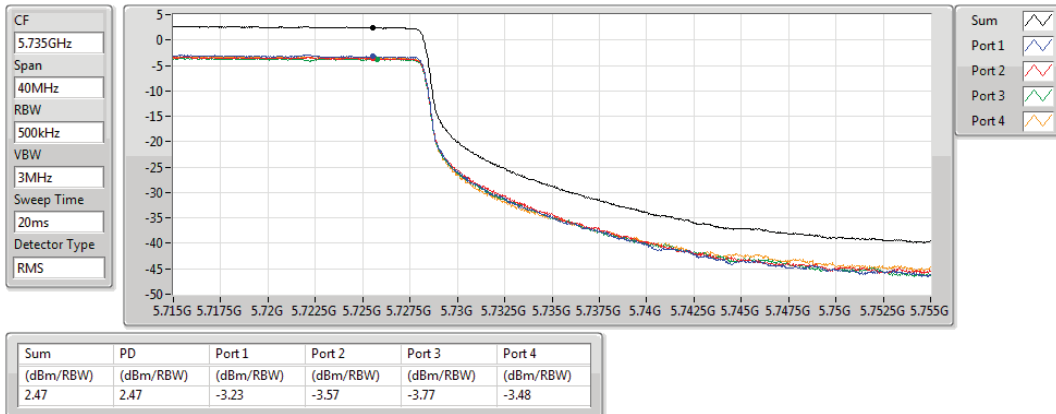


802.11ac VHT80_Nss4,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

31/12/2019

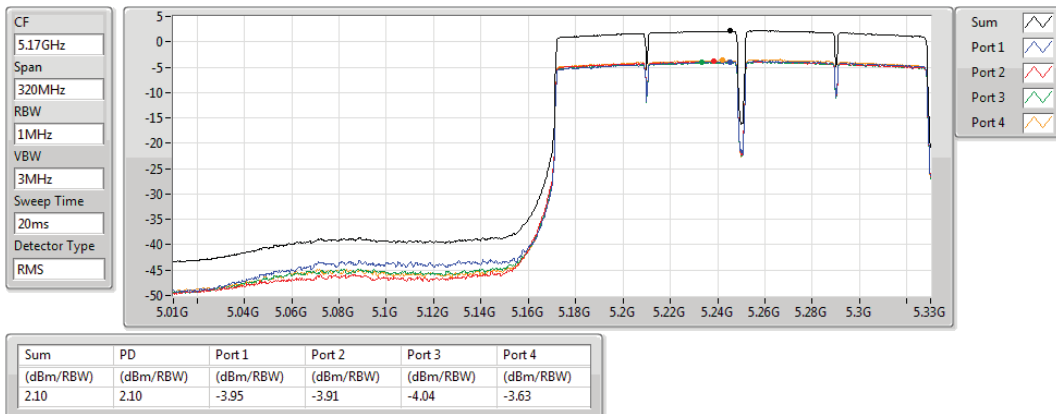


802.11ac VHT160_Nss4,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

31/12/2019

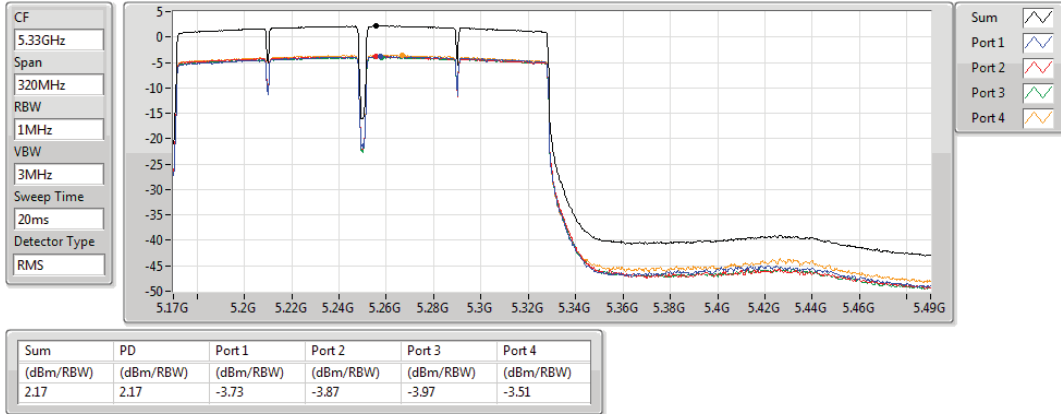


802.11ac VHT160_Nss4,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz

PSD

31/12/2019

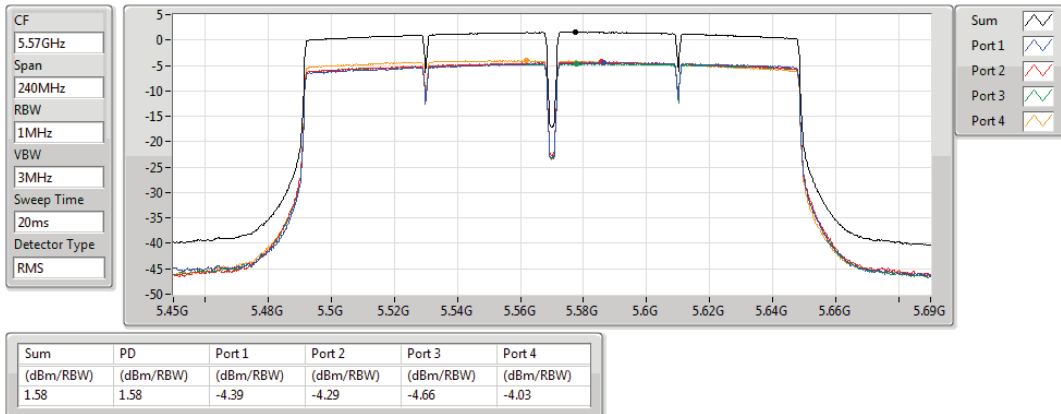


802.11ac VHT160_Nss4,(MCS0)_4TX

5570MHz

PSD

31/12/2019

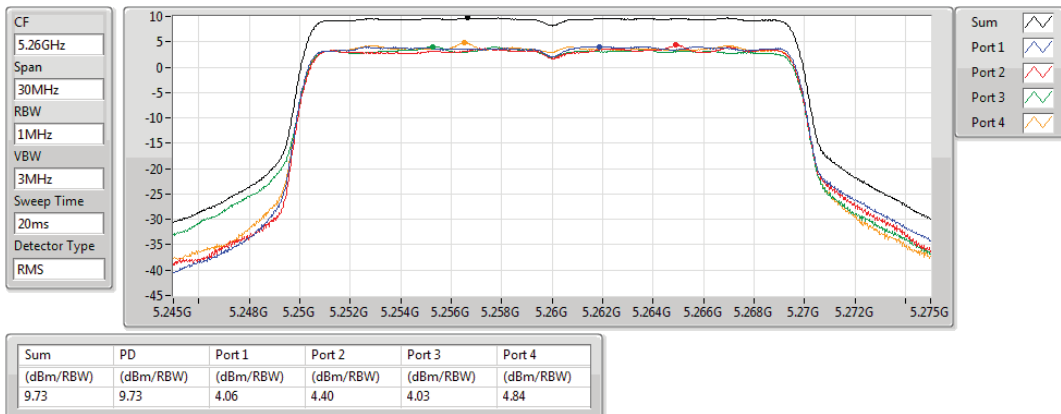


802.11ax HEW20_Nss4,(MCS0)_4TX

5260MHz

PSD

17/12/2019

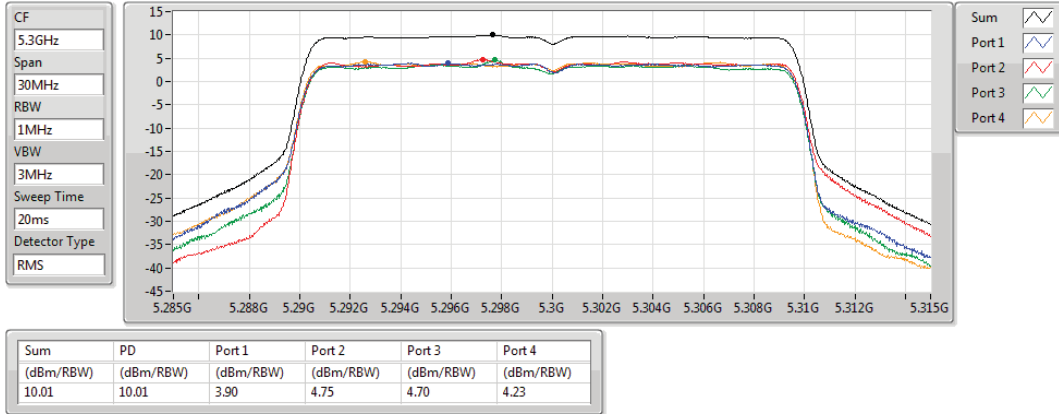


802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5300MHz

17/12/2019

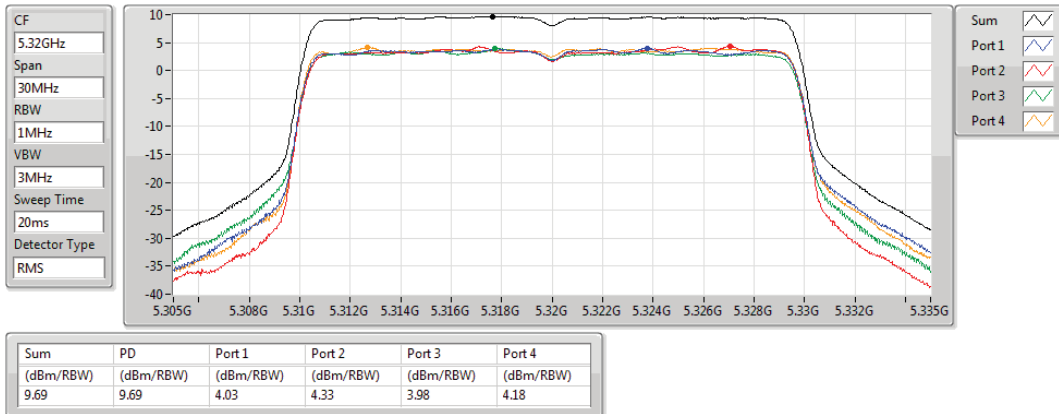


802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5320MHz

17/12/2019

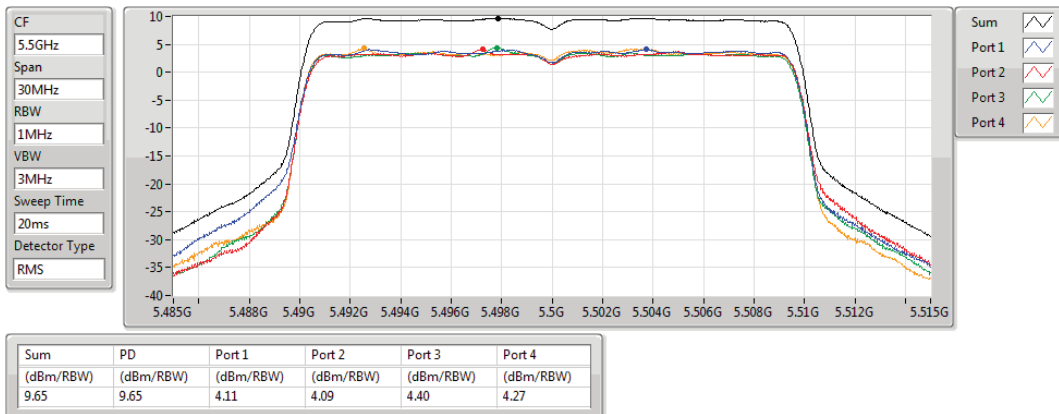


802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

5500MHz

17/12/2019

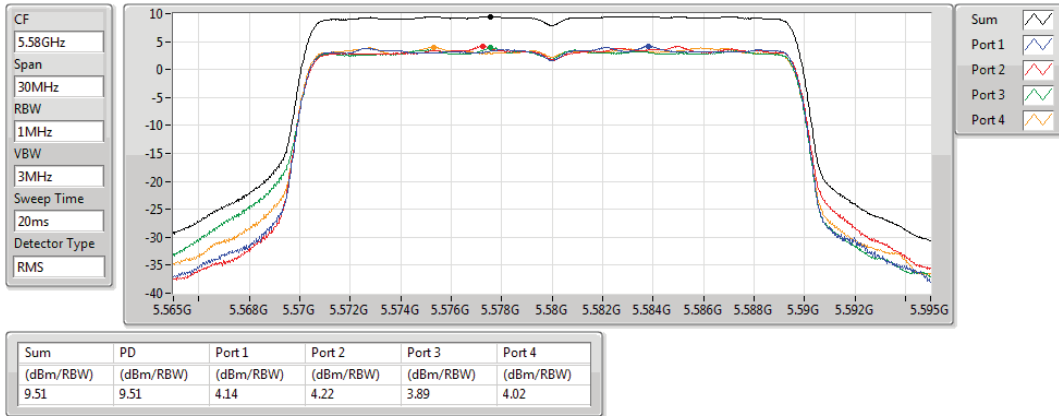


802.11ax HEW20_Nss4,(MCS0)_4TX

5580MHz

PSD

17/12/2019

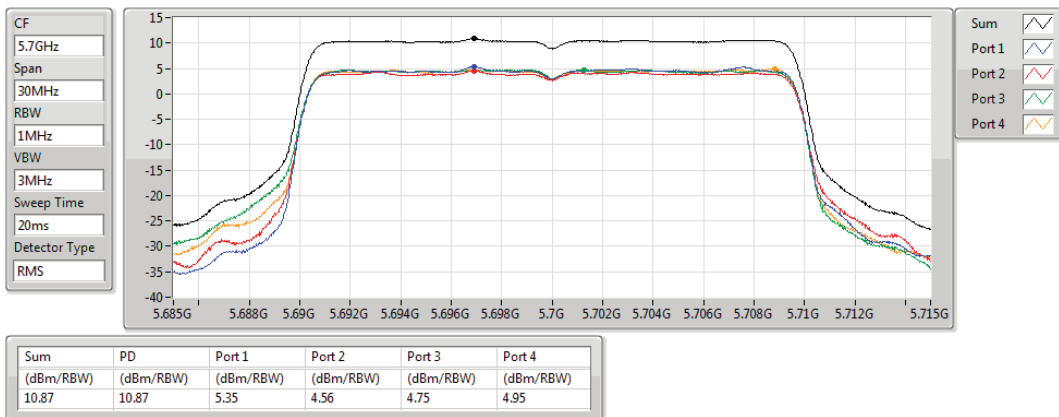


802.11ax HEW20_Nss4,(MCS0)_4TX

5700MHz

PSD

24/02/2020

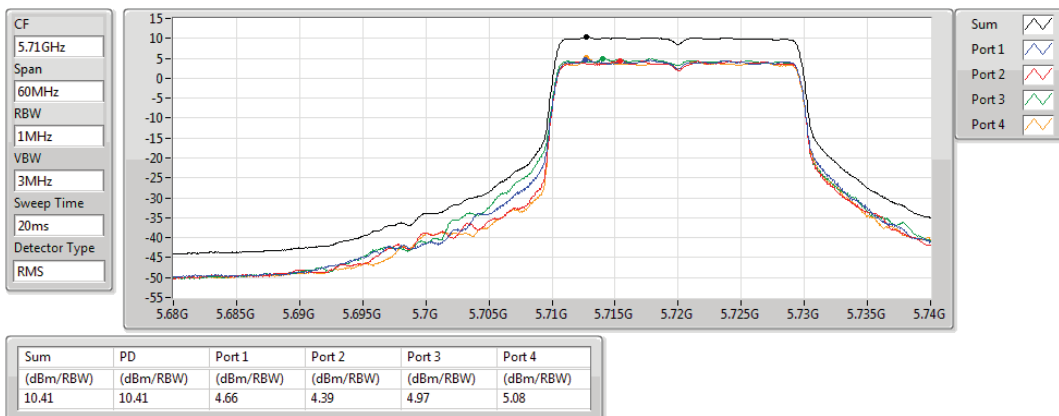


802.11ax HEW20_Nss4,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

17/12/2019

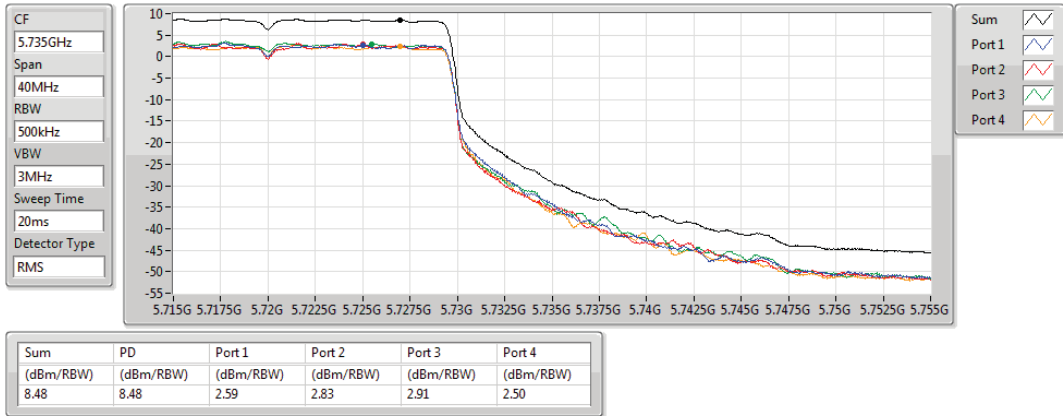


802.11ax HEW20_Nss4,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

17/12/2019

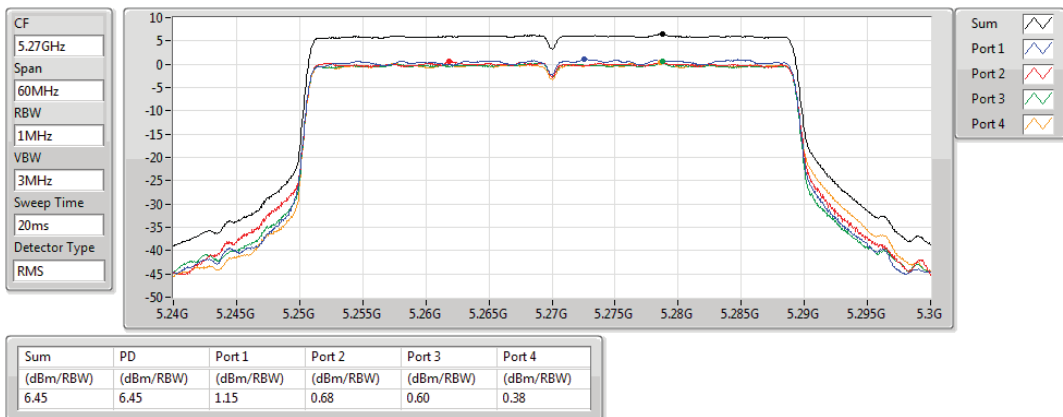


802.11ax HEW40_Nss4,(MCS0)_4TX

5270MHz

PSD

20/12/2019

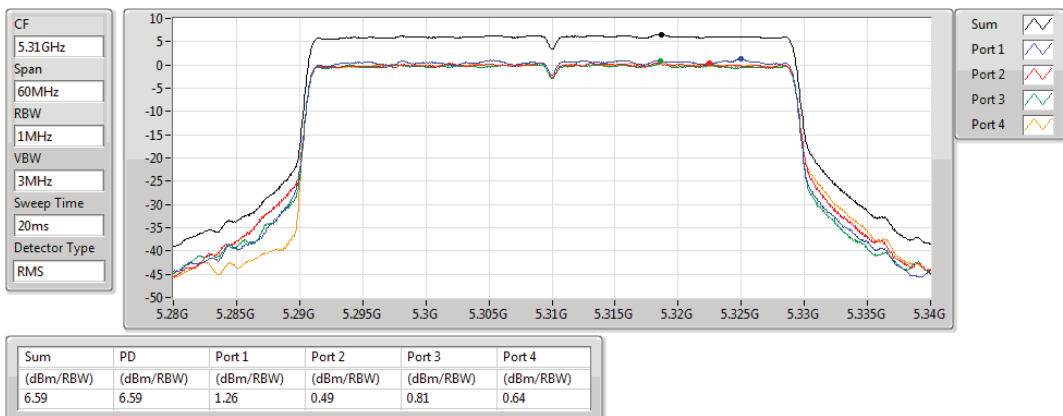


802.11ax HEW40_Nss4,(MCS0)_4TX

5310MHz

PSD

20/12/2019

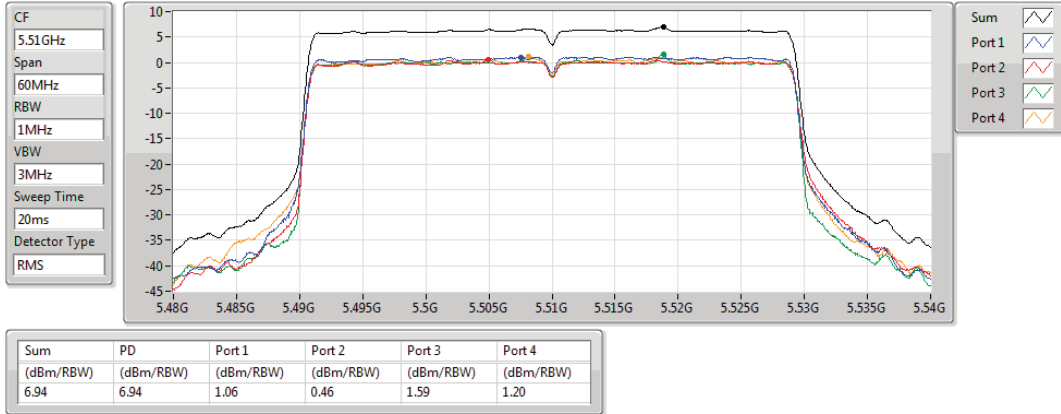


802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5510MHz

20/12/2019

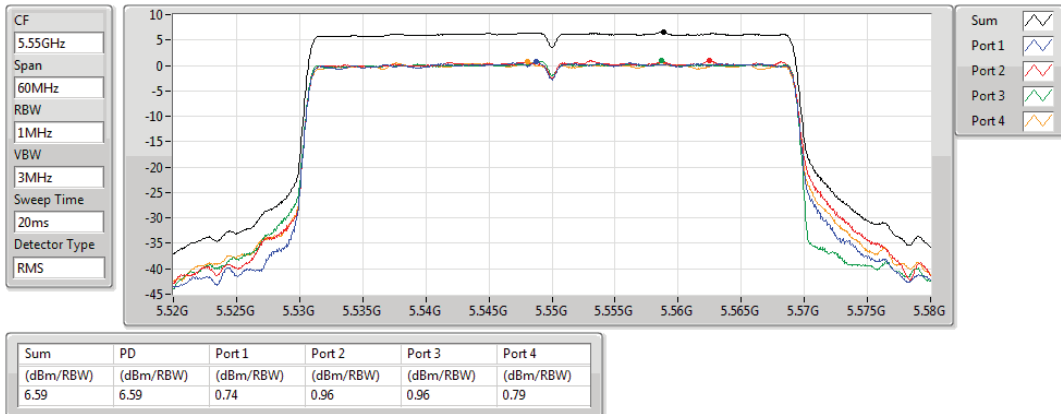


802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5550MHz

20/12/2019

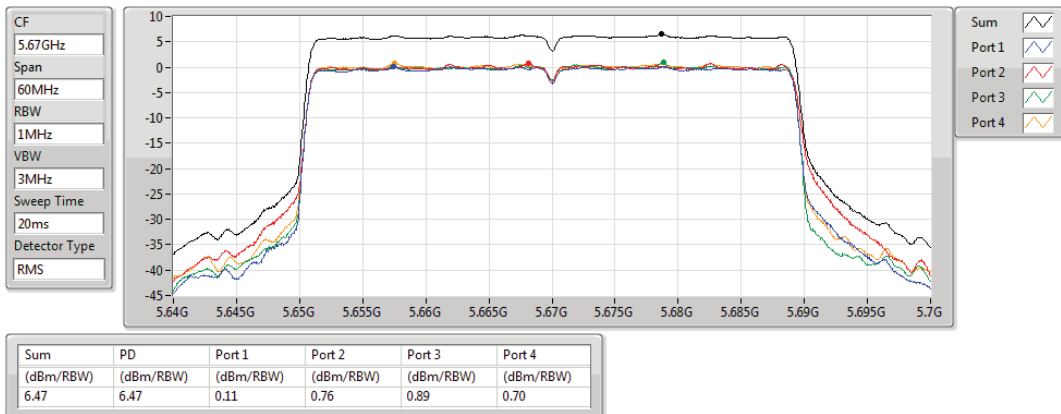


802.11ax HEW40_Nss4,(MCS0)_4TX

PSD

5670MHz

20/12/2019

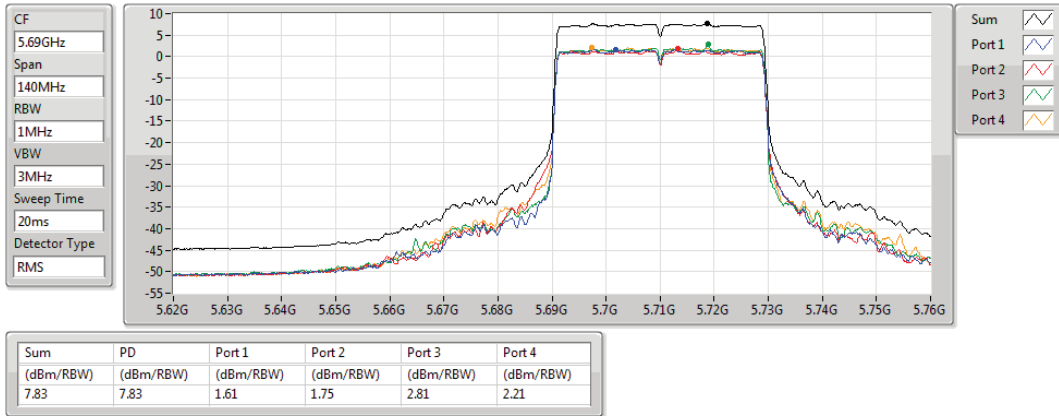


802.11ax HEW40_Nss4,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz

PSD

20/12/2019

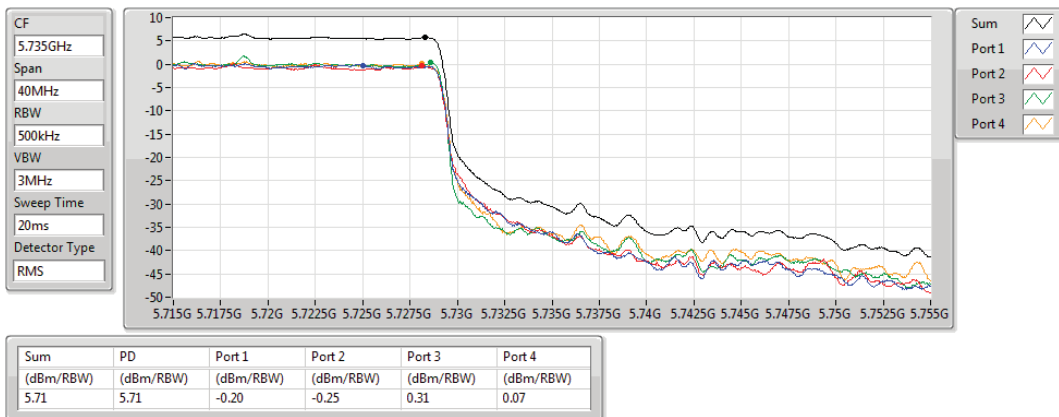


802.11ax HEW40_Nss4,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

20/12/2019

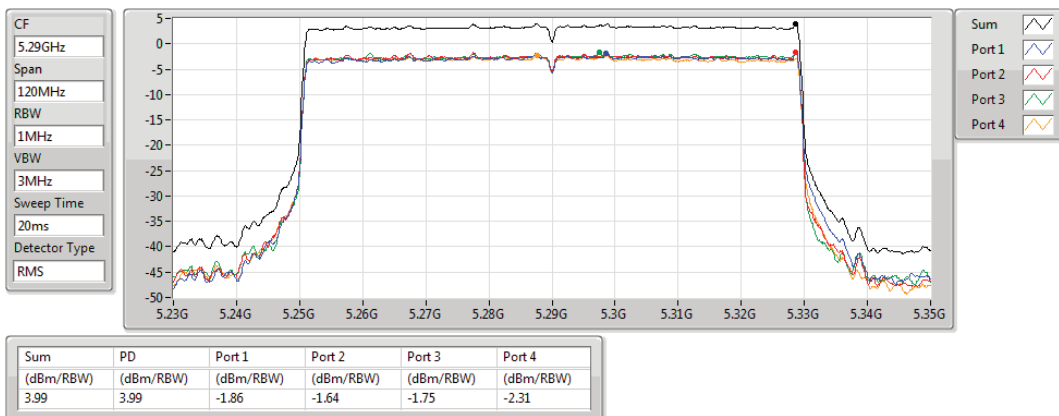


802.11ax HEW80_Nss4,(MCS0)_4TX

5290MHz

PSD

08/01/2020

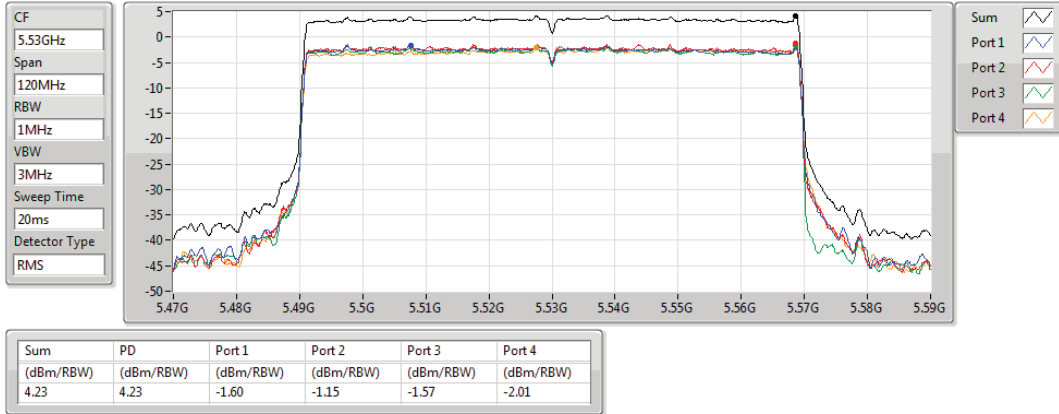


802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

5530MHz

08/01/2020



802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

5610MHz

24/12/2019

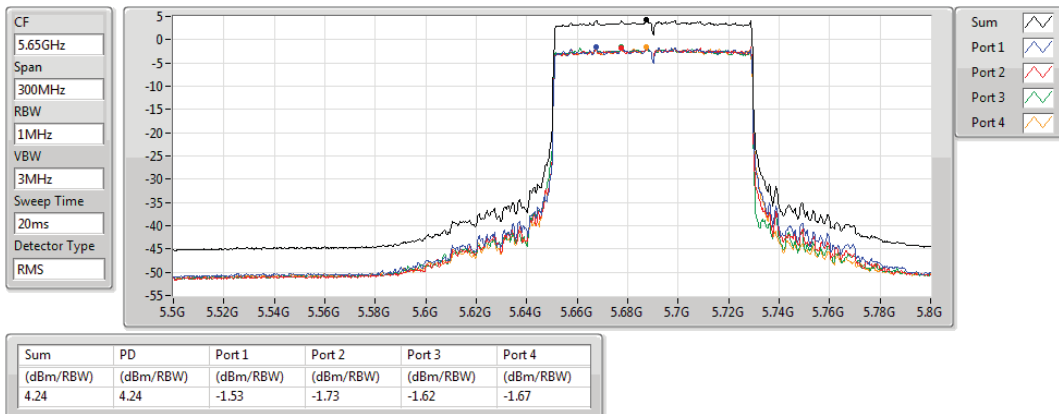


802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

24/12/2019

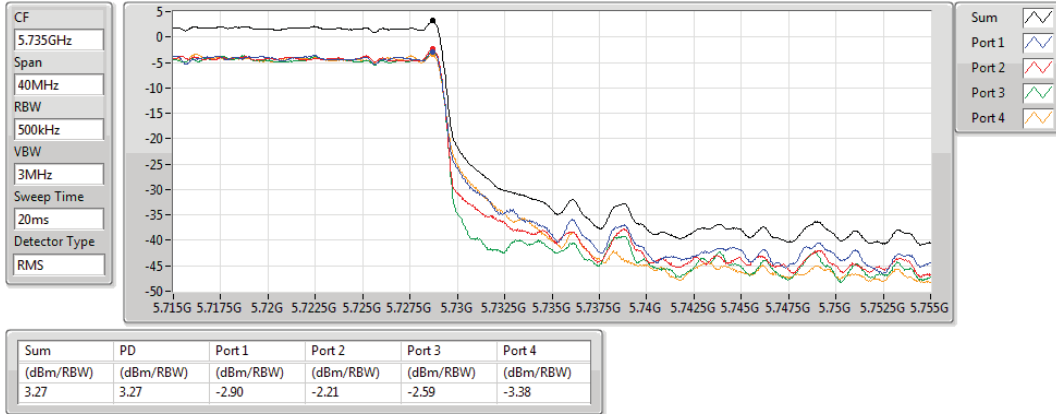


802.11ax HEW80_Nss4,(MCS0)_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

24/12/2019

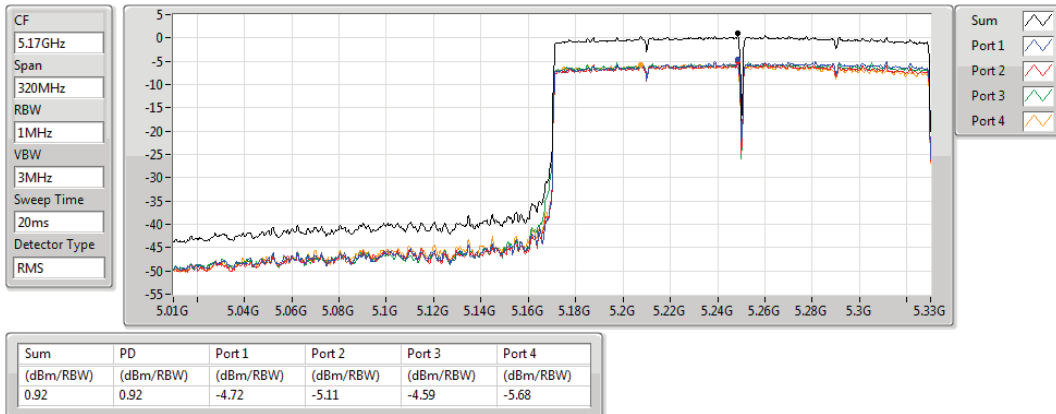


802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

5250MHz Straddle 5.15-5.25GHz

04/01/2020

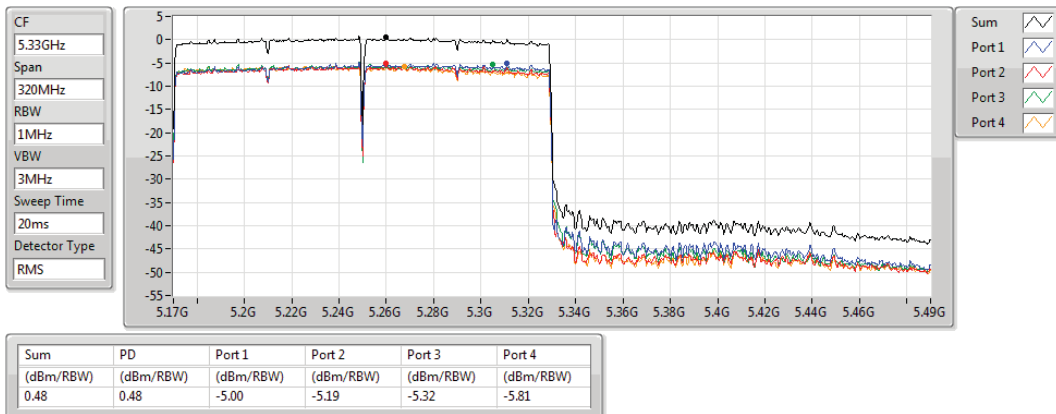


802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

5250MHz Straddle 5.25-5.35GHz

04/01/2020

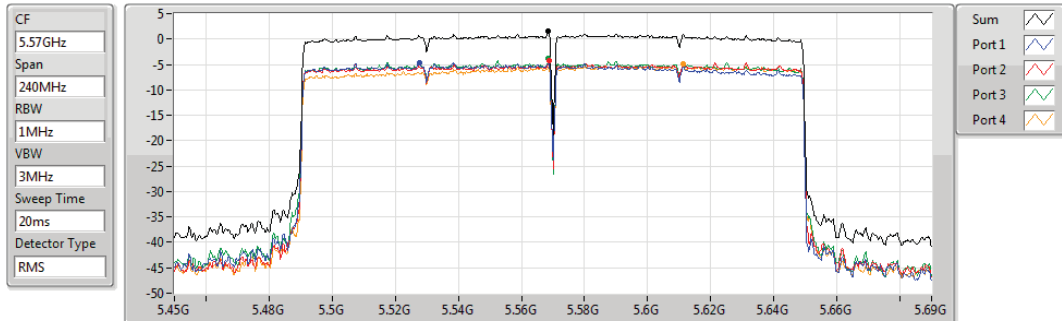


802.11ax HEW160_Nss4,(MCS0)_4TX

PSD

5570MHz

08/01/2020



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
1.52	1.52	-4.69	-4.23	-3.74	-4.97

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-1.49	4.21
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.22	6.92
5.25-5.35GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	10.33	16.03
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	8.4	14.10
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	5.65	11.35
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-1.71	3.99
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.47	16.17
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.67	13.37
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	5.15	10.85
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.04	6.74
5.47-5.725GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	10.74	16.34
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	9.12	14.72
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	4.46	10.06
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	0.24	5.84
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	10.75	16.35
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	7.77	13.37
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.95	10.55
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	1.61	7.21
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	9.2	15.80
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	6	12.60
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	2.29	8.89
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	9.19	15.79
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	6.02	12.62
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	2.54	9.14

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	5.70	4.59	4.45	4.32	3.86	10.22	11.00	15.92	17.00
5300MHz	Pass	5.70	4.48	3.9	3.8	3.2	9.78	11.00	15.48	17.00
5320MHz	Pass	5.70	4.48	4.11	4.63	4.05	10.33	11.00	16.03	17.00
5500MHz	Pass	5.60	4.57	4.06	4.28	4.39	10.33	11.00	15.93	17.00
5580MHz	Pass	5.60	4.54	3.62	3.75	3.76	9.79	11.00	15.39	17.00
5700MHz	Pass	5.60	4.85	4.5	4.8	4.19	10.59	11.00	16.19	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.60	5.02	4.47	4.72	5.11	10.74	11.00	16.34	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.60	3.55	2.88	3.32	3.49	9.20	29.40	15.80	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	5.70	1.31	1.44	1.4	0.22	7.01	11.00	12.71	17.00
5310MHz	Pass	5.70	2.11	2.44	2.25	2.73	8.40	11.00	14.10	17.00
5510MHz	Pass	5.60	3.1	2.7	2.69	3.84	9.12	11.00	14.72	17.00
5550MHz	Pass	5.60	-0.97	-1.17	-2.42	-1.80	4.13	11.00	9.73	17.00
5670MHz	Pass	5.60	2.12	1.27	1.64	0.87	7.52	11.00	13.12	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.60	2.39	1.67	1.62	1.64	7.71	11.00	13.31	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.60	0.58	0.15	-0.14	-0.21	6.00	29.40	12.60	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	5.70	-0.39	-0.58	-0.13	-0.29	5.65	11.00	11.35	17.00
5530MHz	Pass	5.60	-1.01	-2.45	-1.23	-1.7	4.46	11.00	10.06	17.00
5610MHz	Pass	5.60	-1.21	-1.71	-1.17	-1.58	4.42	11.00	10.02	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.60	-1.52	-1.97	-1.83	-1.53	4.15	11.00	9.75	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.60	-3.18	-3.57	-3.58	-3.86	2.29	29.40	8.89	36.00
802.11ac VHT160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.70	-7.27	-7.25	-8.2	-7.32	-1.49	17.00	4.21	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.70	-7.57	-7.59	-8.48	-7.33	-1.71	11.00	3.99	17.00
5570MHz	Pass	5.60	-5.26	-5.79	-6.2	-5.85	0.24	11.00	5.84	17.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	5.70	4.44	3.91	4.23	2.99	9.84	11.00	15.54	17.00
5300MHz	Pass	5.70	4.1	4	3.97	2.87	9.70	11.00	15.40	17.00
5320MHz	Pass	5.70	4.56	4.49	4.97	3.83	10.47	11.00	16.17	17.00
5500MHz	Pass	5.60	4.31	4.22	3.97	4.17	10.17	11.00	15.77	17.00
5580MHz	Pass	5.60	4.65	3.61	4.2	3.81	10.00	11.00	15.60	17.00
5700MHz	Pass	5.60	4.6	4.34	4.5	4.1	10.40	11.00	16.00	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.60	4.89	4.57	4.79	5.09	10.75	11.00	16.35	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.60	3.37	3.13	3.26	3.43	9.19	29.40	15.79	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	5.70	0.84	1.3	1.28	0.36	6.86	11.00	12.56	17.00
5310MHz	Pass	5.70	1.72	1.64	1.98	1.32	7.67	11.00	13.37	17.00
5510MHz	Pass	5.60	1.88	1.48	1.44	2.01	7.67	11.00	13.27	17.00
5550MHz	Pass	5.60	1.65	0.77	0.91	1.19	7.03	11.00	12.63	17.00
5670MHz	Pass	5.60	2.13	1.49	1.1	1.86	7.59	11.00	13.19	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.60	2.45	1.67	1.8	1.57	7.77	11.00	13.37	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.60	0.62	-0.11	-0.07	-0.23	6.02	29.40	12.62	36.00



Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	5.70	-0.72	-0.88	-0.5	-1.23	5.15	11.00	10.85	17.00
5530MHz	Pass	5.60	-0.43	-1.46	-1.37	-0.81	4.95	11.00	10.55	17.00
5610MHz	Pass	5.60	-1.59	-2.01	-1.85	-1.97	4.01	11.00	9.61	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.60	-1.25	-1.72	-1.58	-1.66	4.38	11.00	9.98	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.60	-3.01	-3.39	-3.46	-3.66	2.54	29.40	9.14	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.70	-4.53	-4.59	-5.71	-4.43	1.22	17.00	6.92	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	5.70	-4.8	-4.79	-5.76	-4.56	1.04	11.00	6.74	17.00
5570MHz	Pass	5.60	-3.78	-4.69	-4.31	-4.64	1.61	11.00	7.21	17.00

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

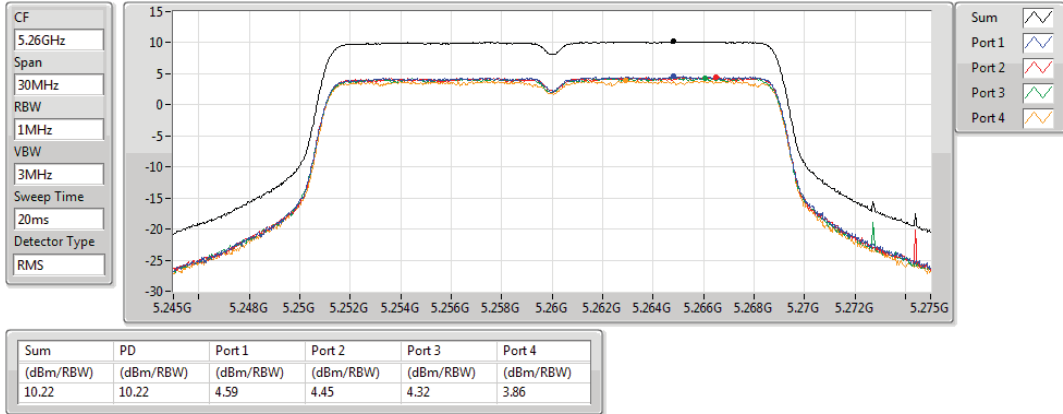
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5260MHz

PSD

20/01/2020

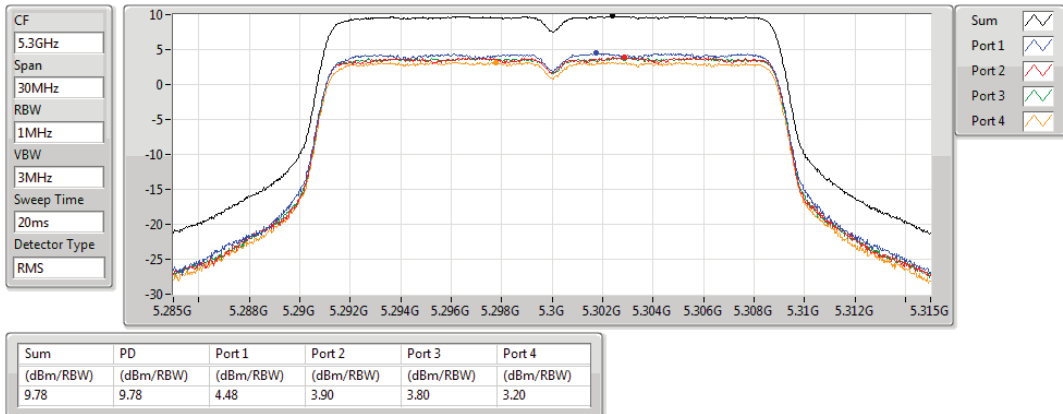


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5300MHz

PSD

20/01/2020

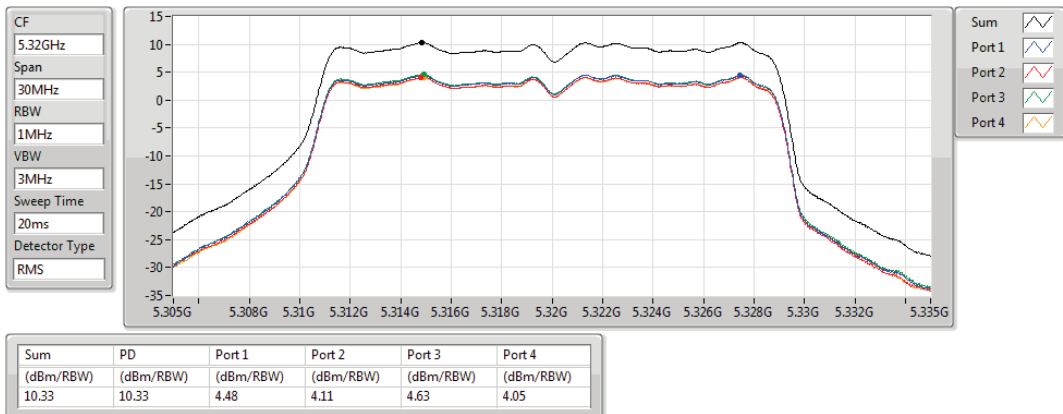


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5320MHz

PSD

17/02/2020

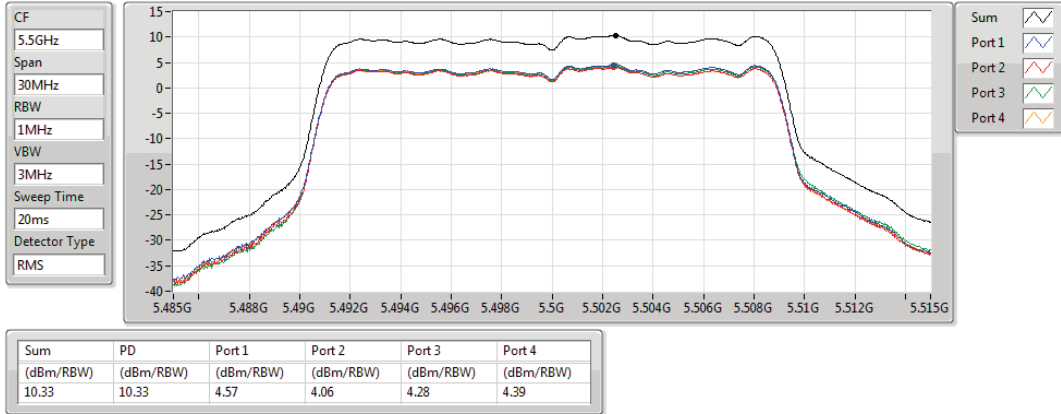


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5500MHz

PSD

17/02/2020

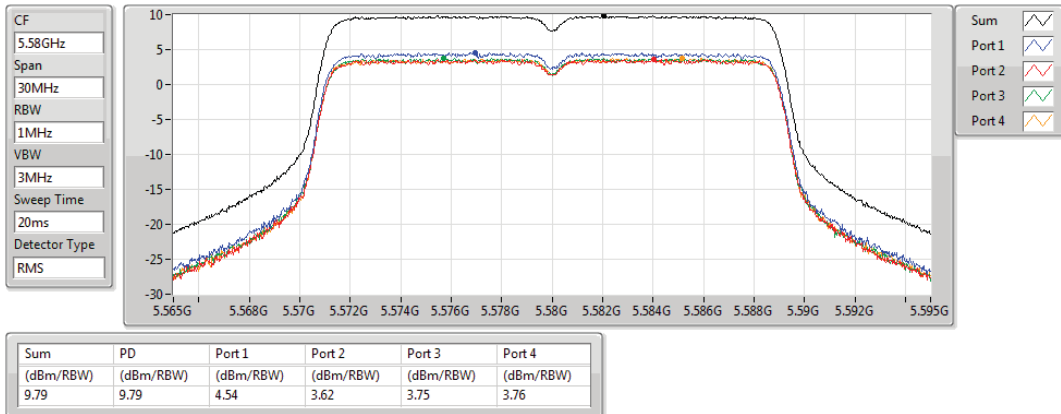


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5580MHz

PSD

20/01/2020

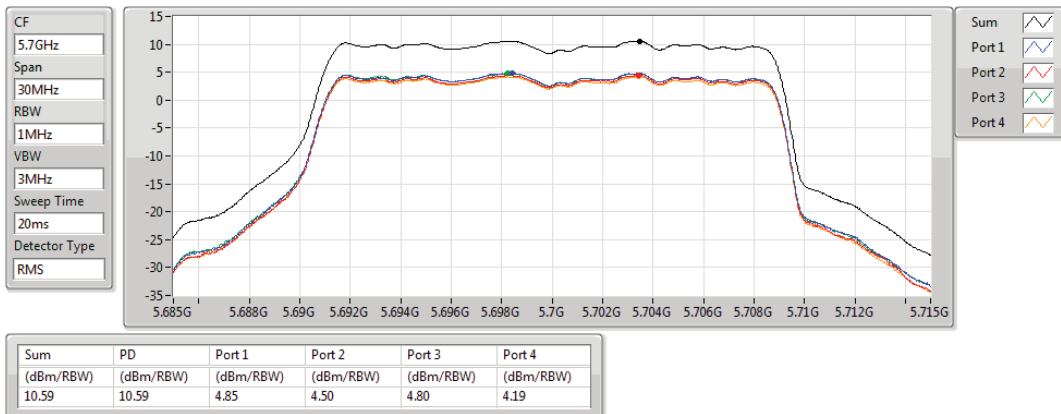


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5700MHz

PSD

17/02/2020

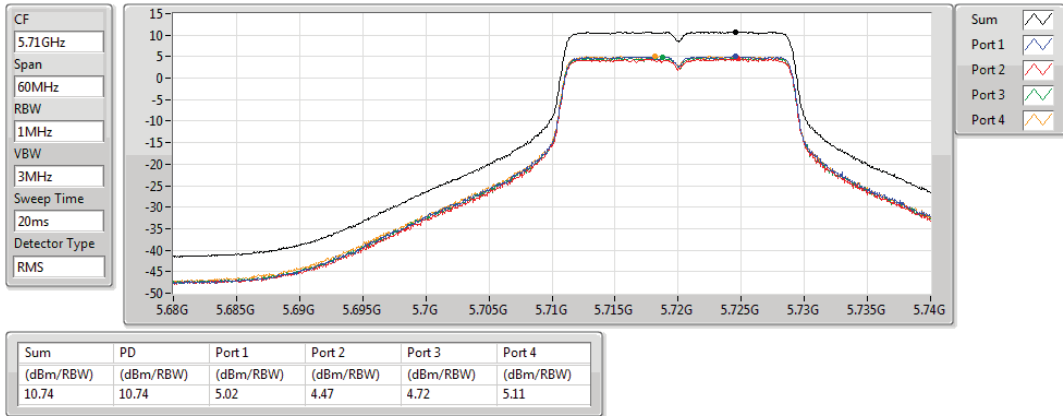


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

20/01/2020

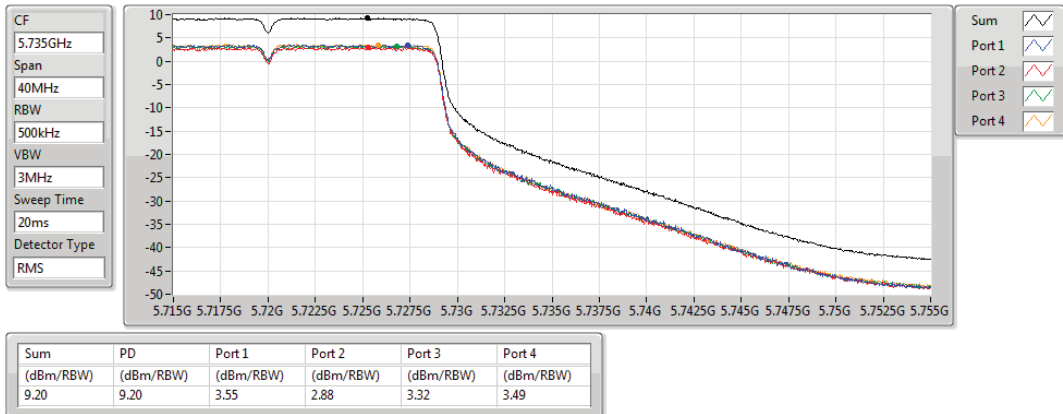


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.725-5.85GHz

PSD

20/01/2020

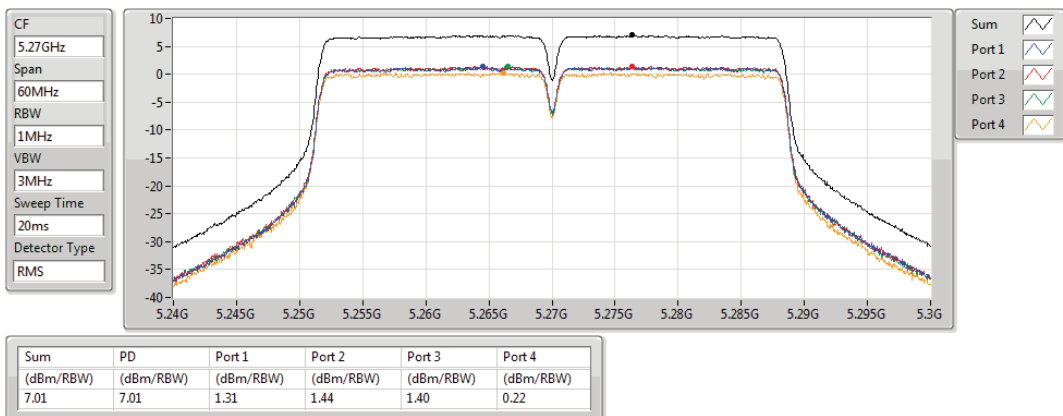


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5270MHz

PSD

20/01/2020

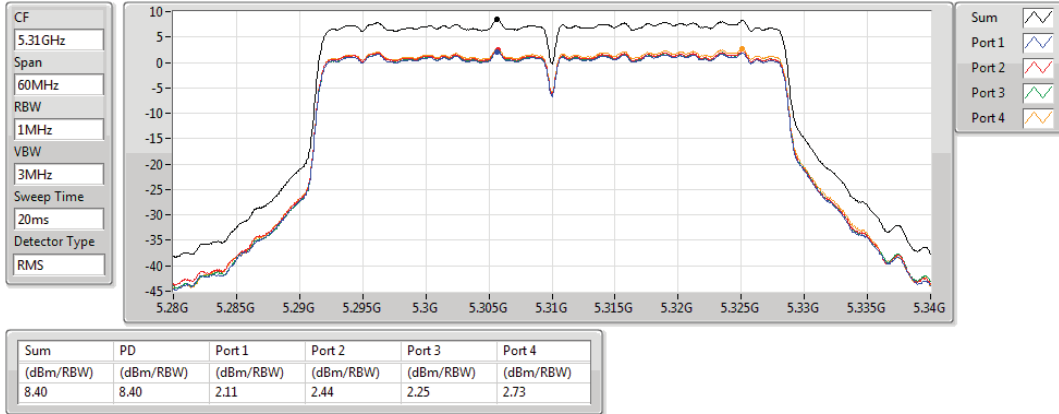


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

17/02/2020

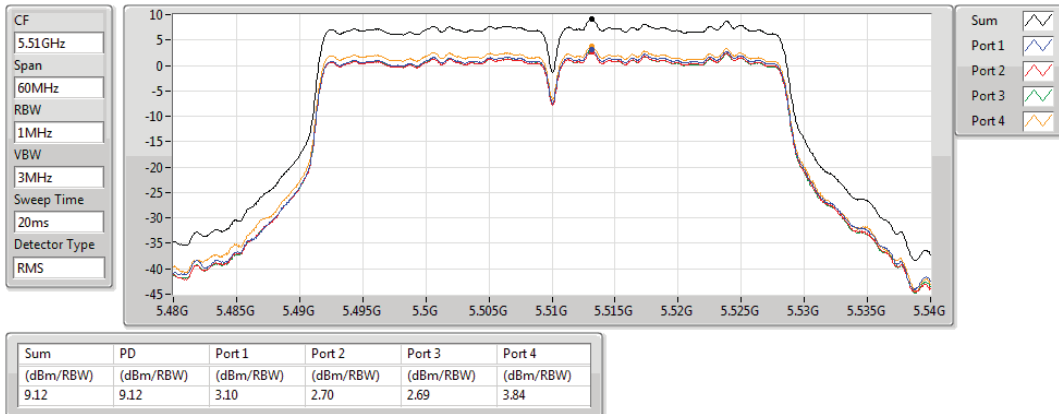


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

17/02/2020

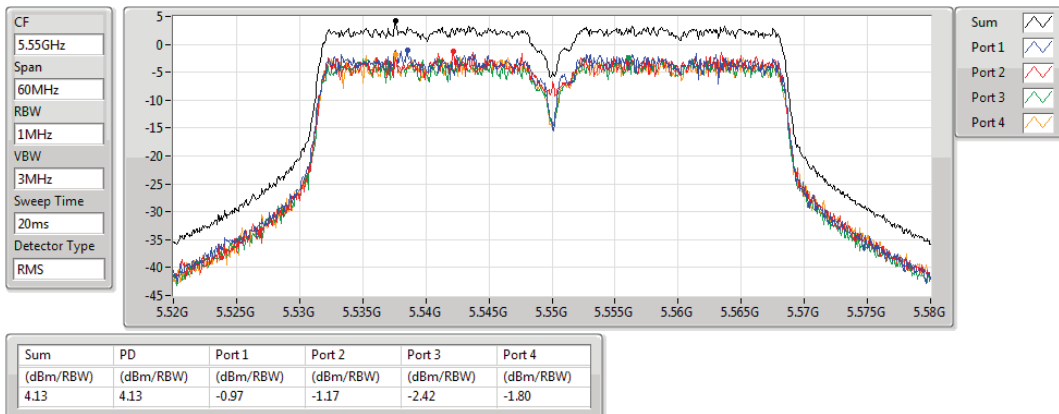


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

26/02/2020

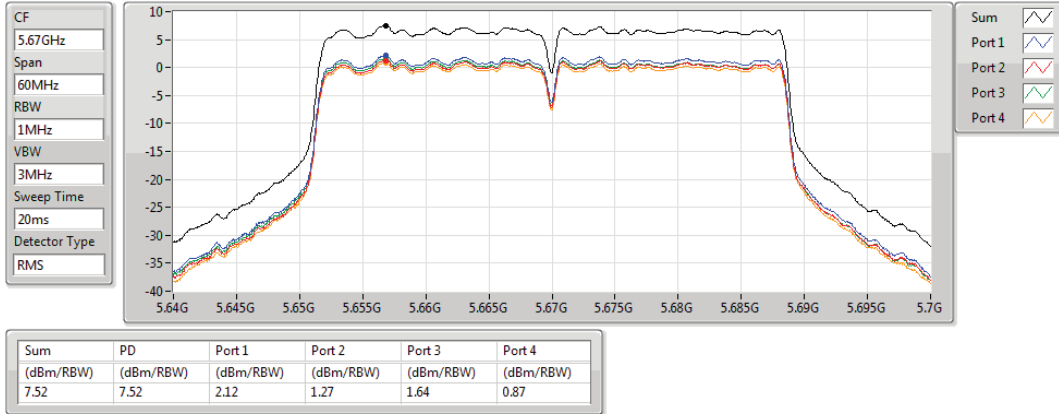


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

17/02/2020

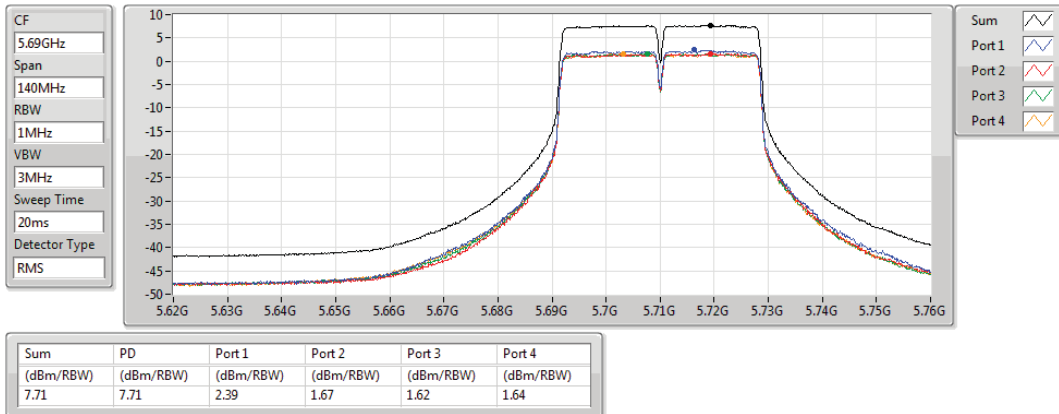


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.47-5.725GHz

20/01/2020

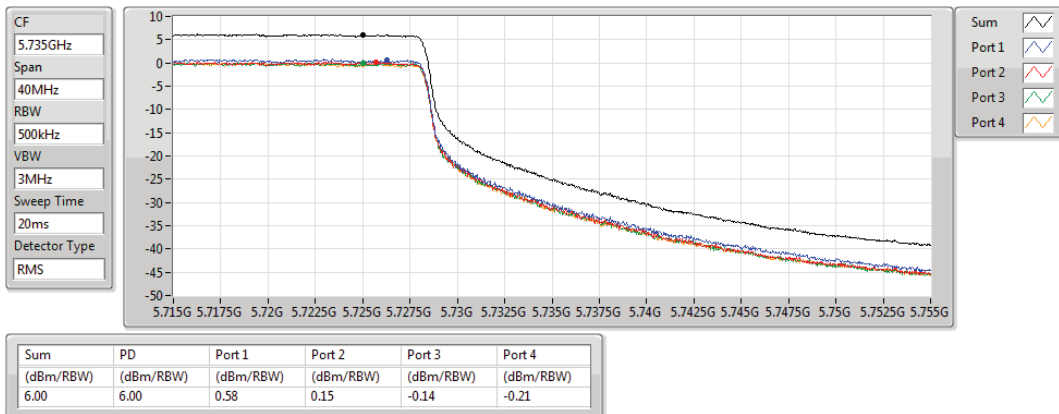


802.11ac VHT40-BF_Nss1,(MCS0)_4TX

PSD

5710MHz Straddle 5.725-5.85GHz

20/01/2020

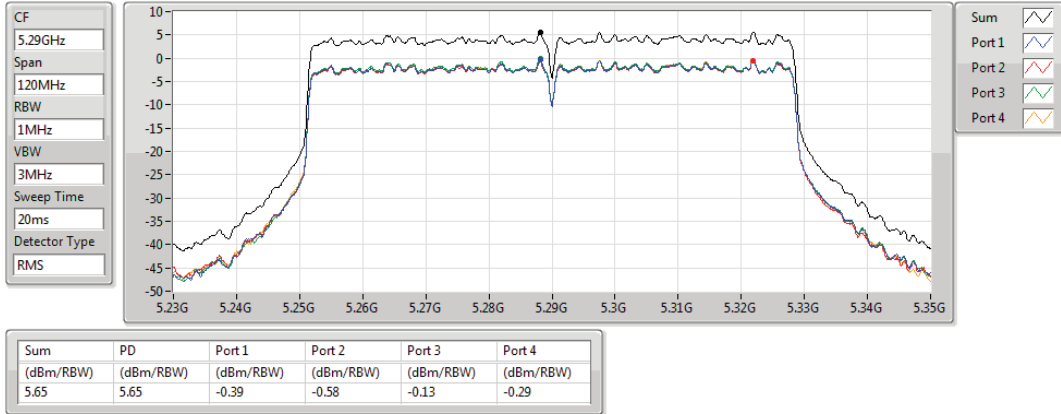


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5290MHz

17/02/2020

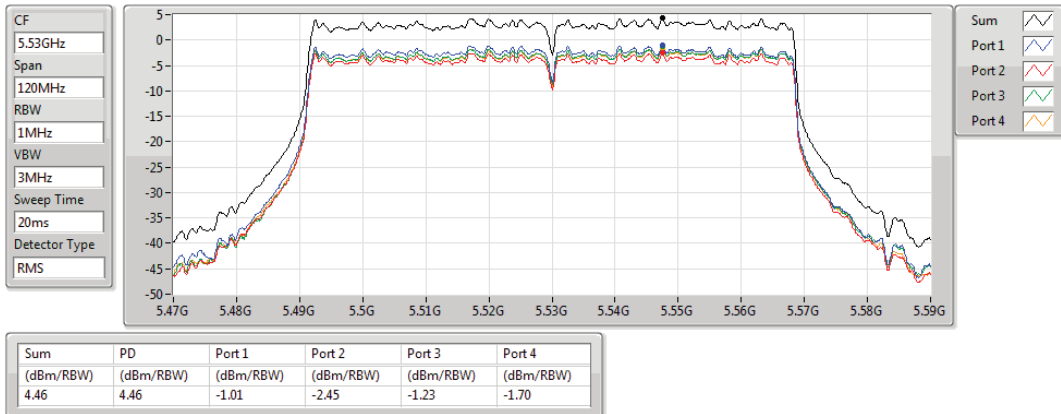


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

17/02/2020

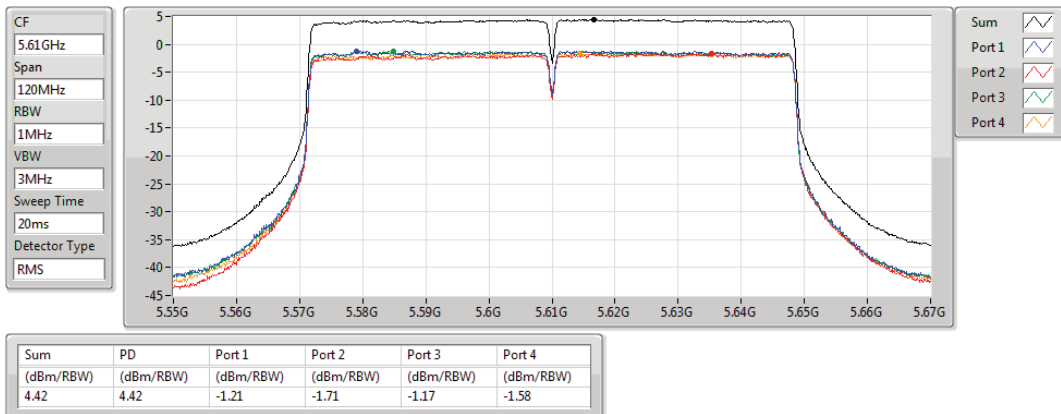


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

21/01/2020

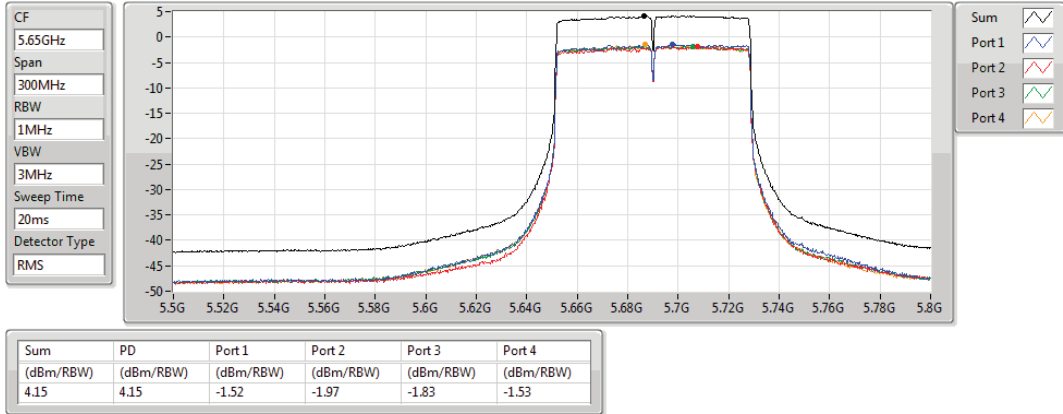


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5690MHz Straddle 5.47-5.725GHz

PSD

21/01/2020

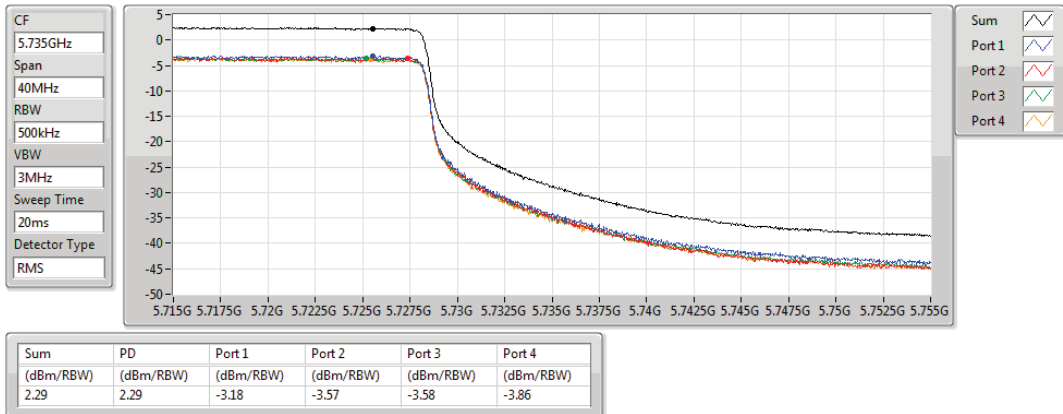


802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5690MHz Straddle 5.725-5.85GHz

PSD

21/01/2020

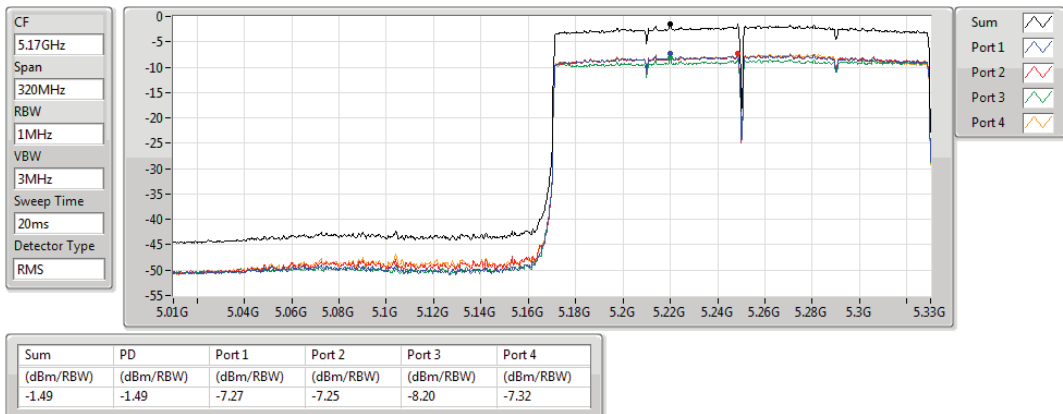


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.15-5.25GHz

PSD

25/02/2020

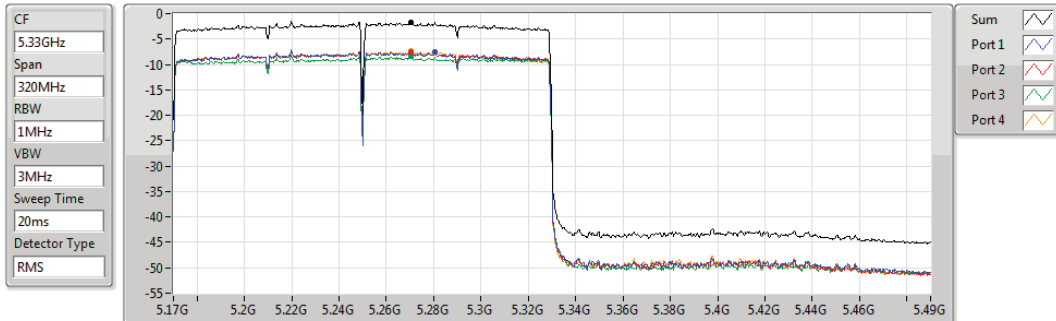


802.11ac VHT160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz

PSD

25/02/2020



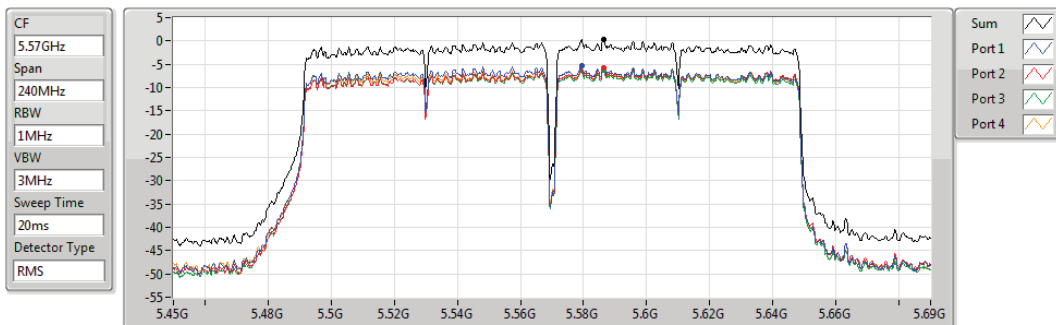
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-1.71	-1.71	-7.57	-7.59	-8.48	-7.33

802.11ac VHT160-BF_Nss1,(MCS0)_4TX

5570MHz

PSD

17/02/2020



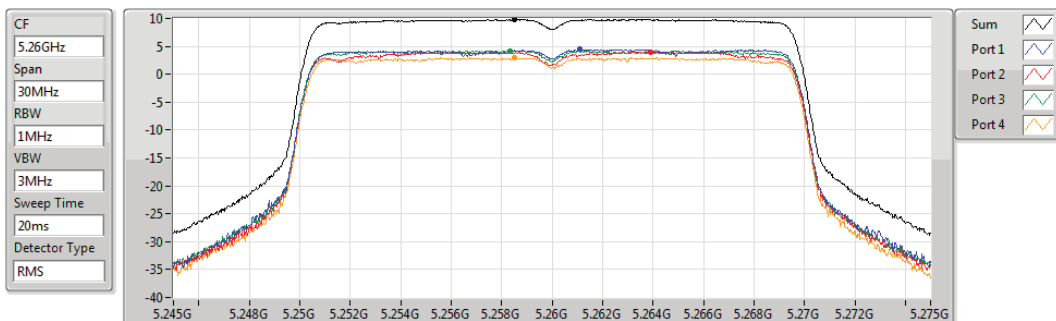
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
0.24	0.24	-5.26	-5.79	-6.20	-5.85

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5260MHz

PSD

20/01/2020



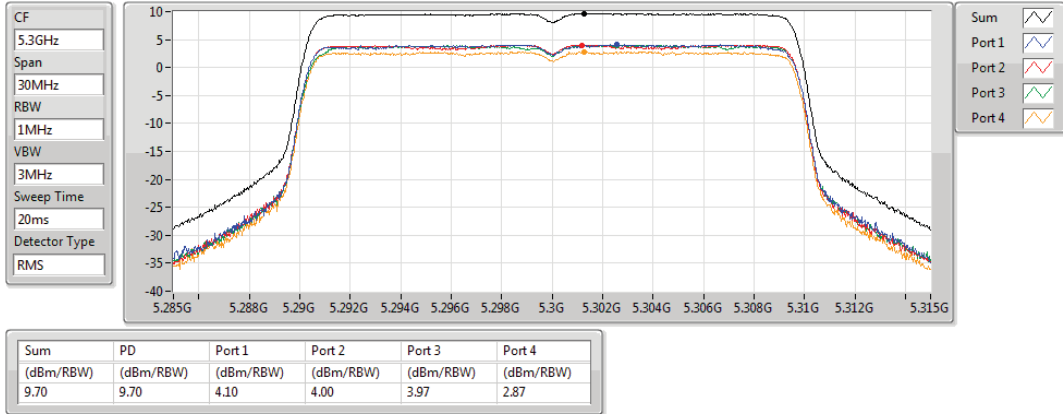
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.84	9.84	4.44	3.91	4.23	2.99

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5300MHz

PSD

20/01/2020

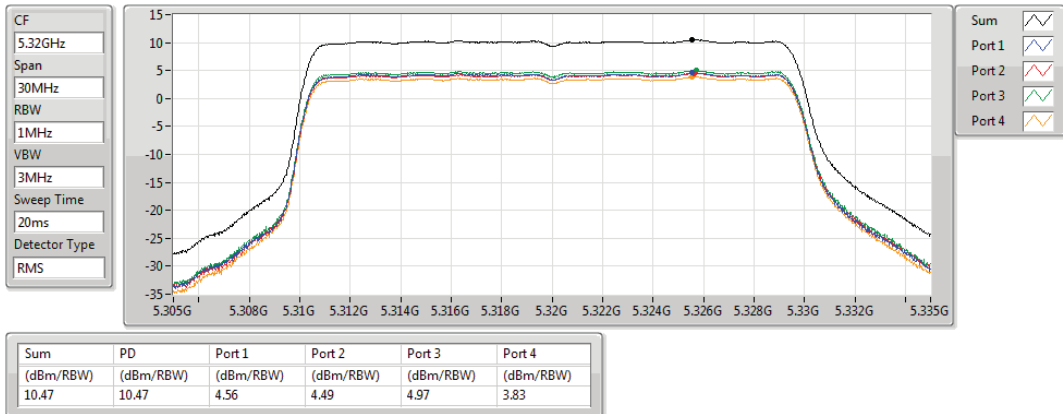


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5320MHz

PSD

17/02/2020

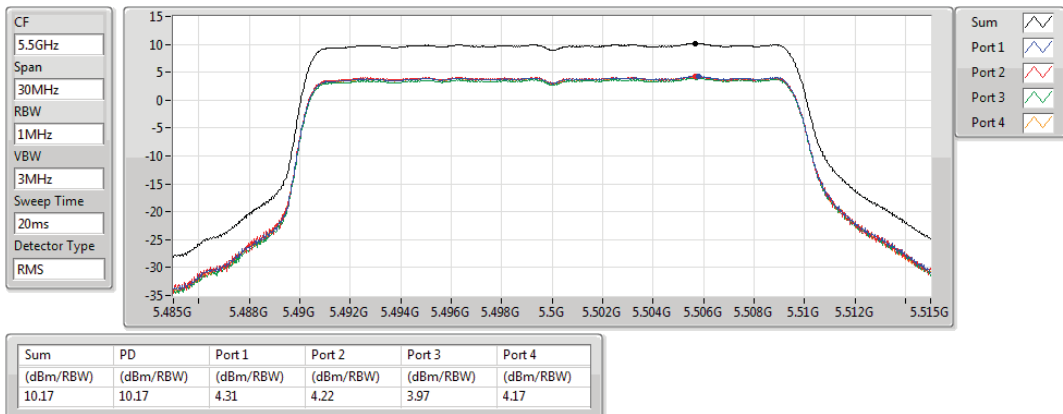


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5500MHz

PSD

17/02/2020

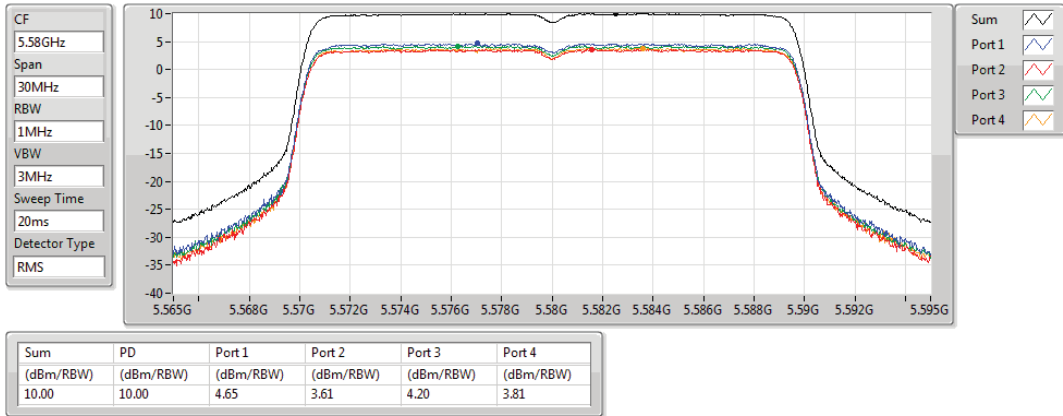


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5580MHz

PSD

20/01/2020

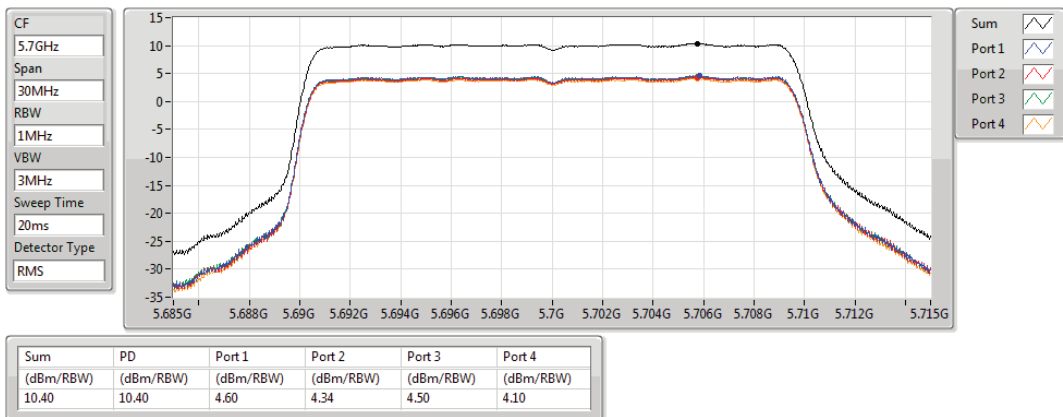


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5700MHz

PSD

17/02/2020

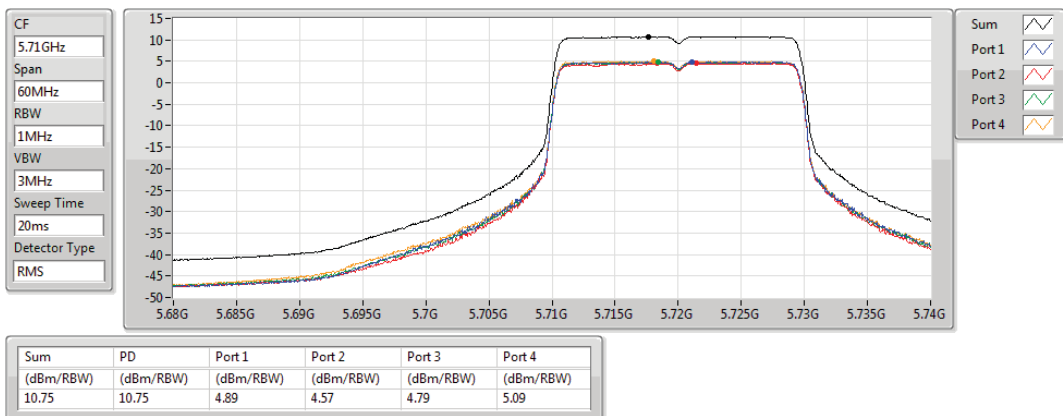


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

5720MHz Straddle 5.47-5.725GHz

PSD

20/01/2020

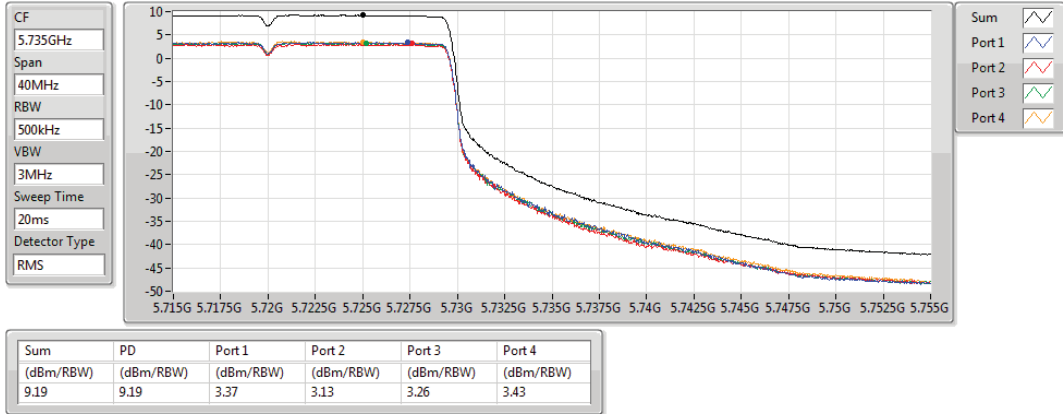


802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

20/01/2020

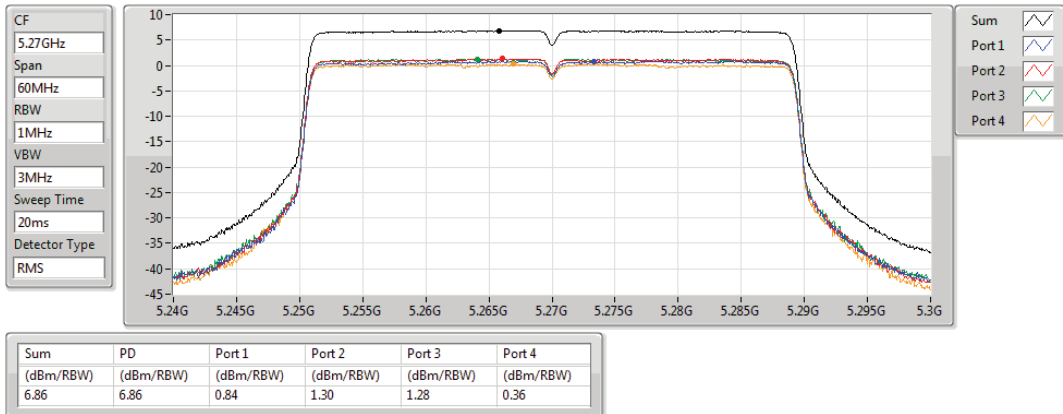


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5270MHz

20/01/2020

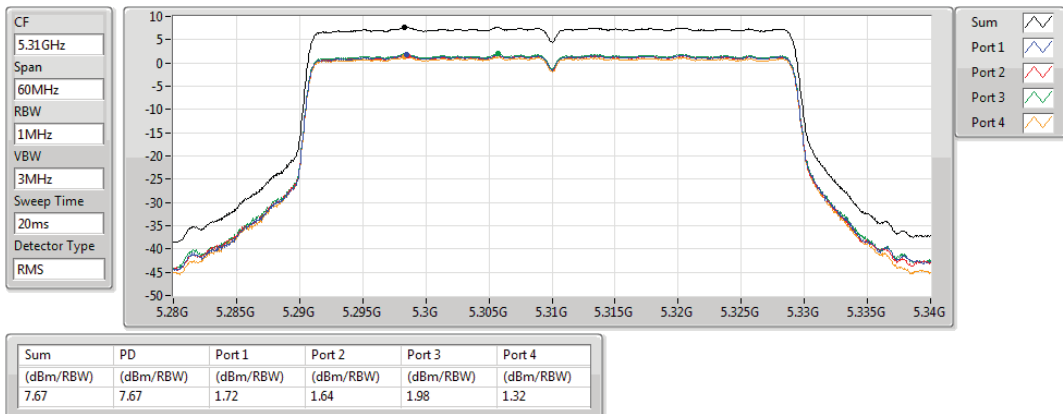


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5310MHz

17/02/2020

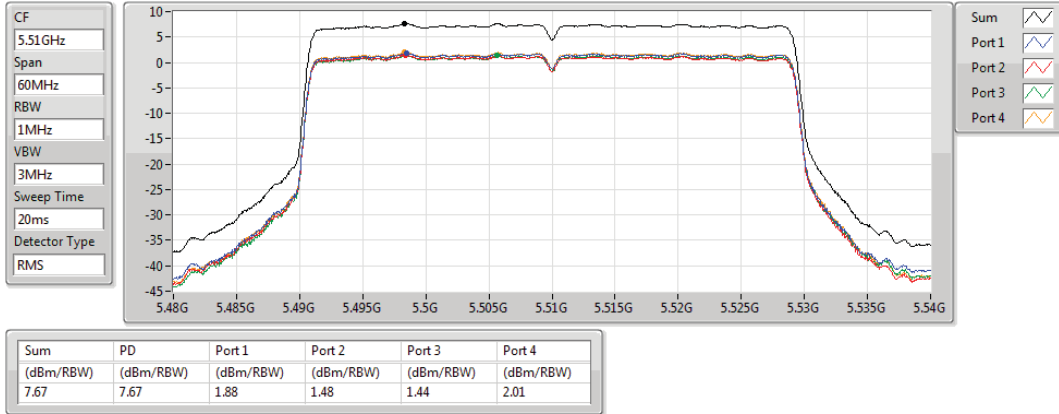


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5510MHz

17/02/2020

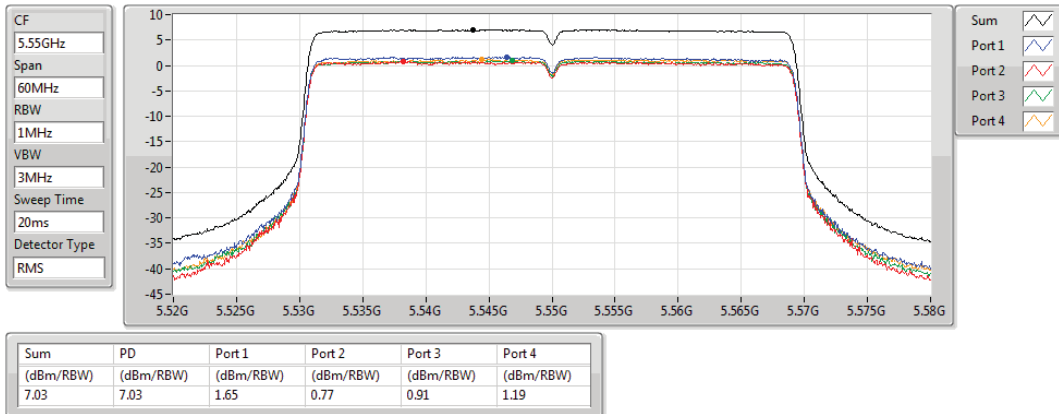


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5550MHz

20/01/2020

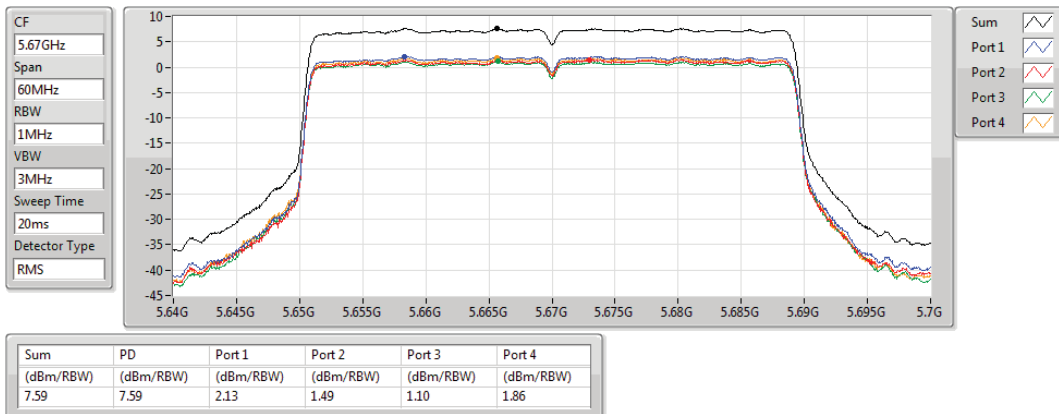


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5670MHz

17/02/2020

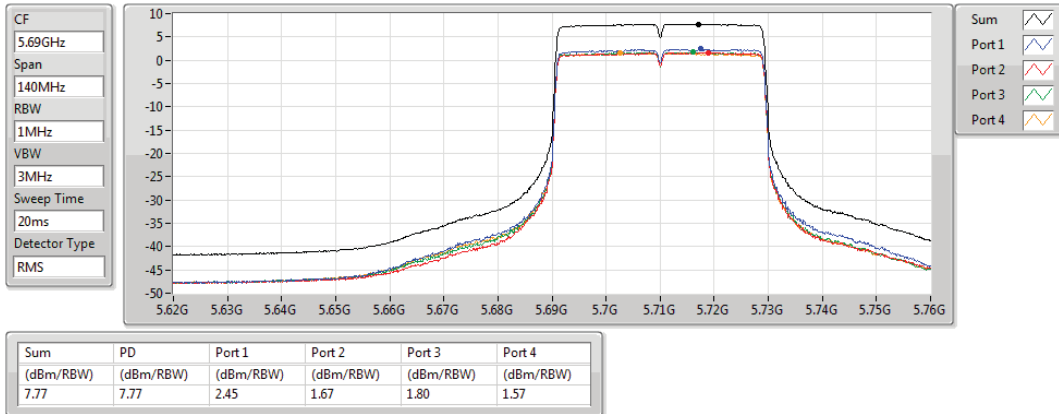


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.47-5.725GHz

PSD

20/01/2020

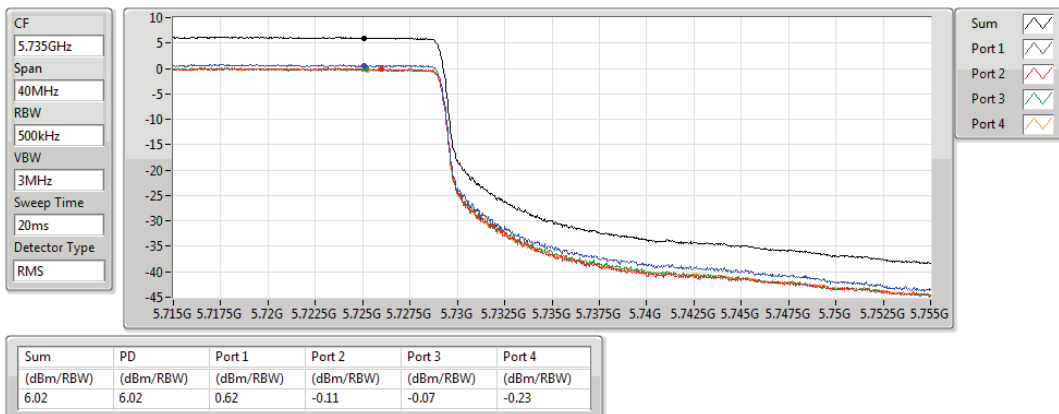


802.11ax HEW40-BF_Nss1,(MCS0)_4TX

5710MHz Straddle 5.725-5.85GHz

PSD

20/01/2020

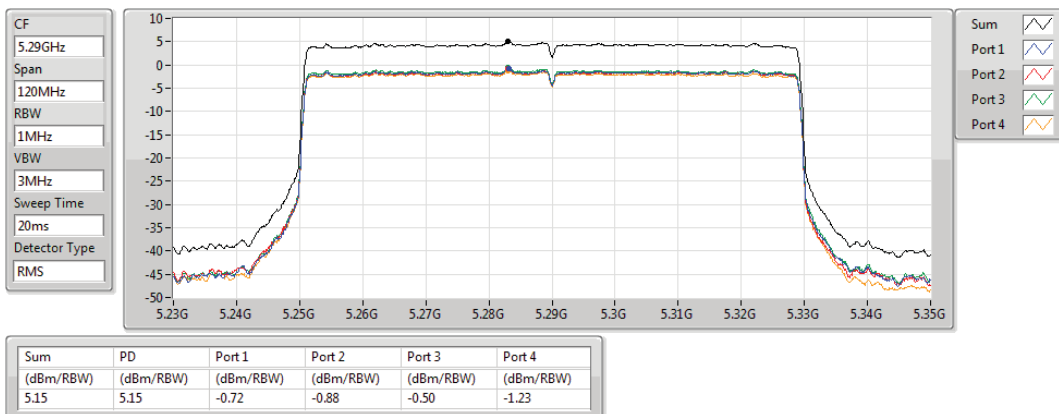


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5290MHz

PSD

17/02/2020

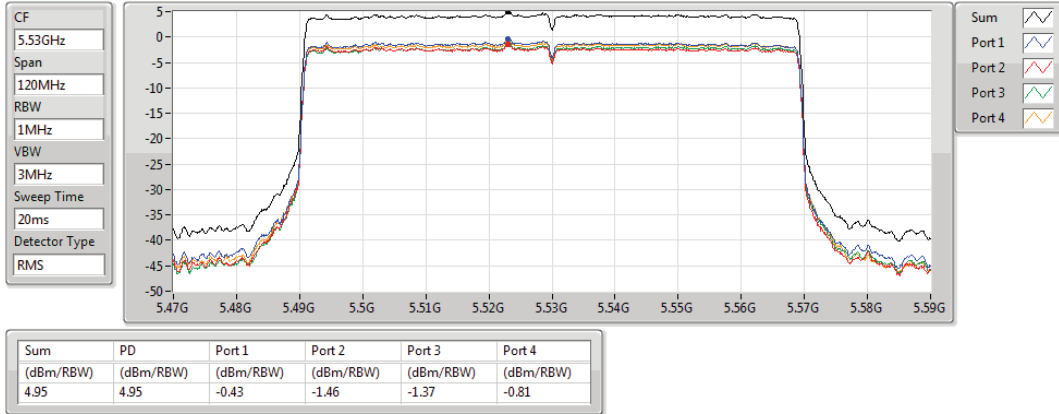


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5530MHz

17/02/2020

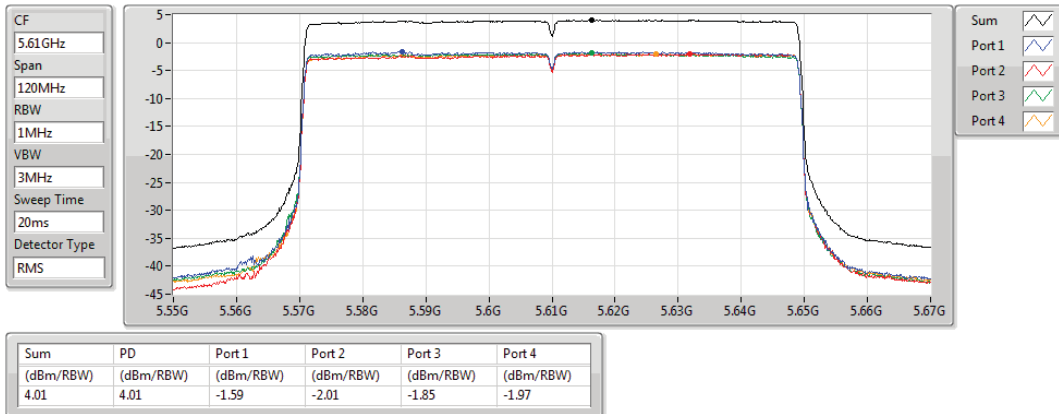


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5610MHz

20/01/2020

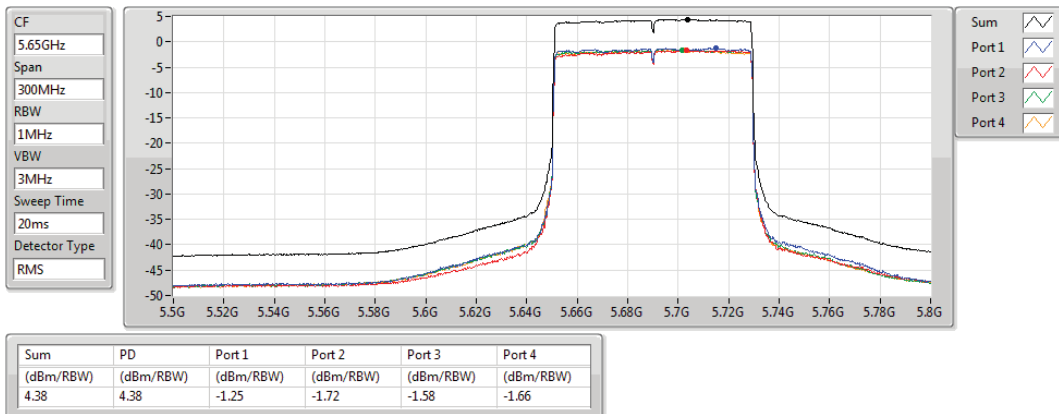


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5690MHz Straddle 5.47-5.725GHz

20/01/2020

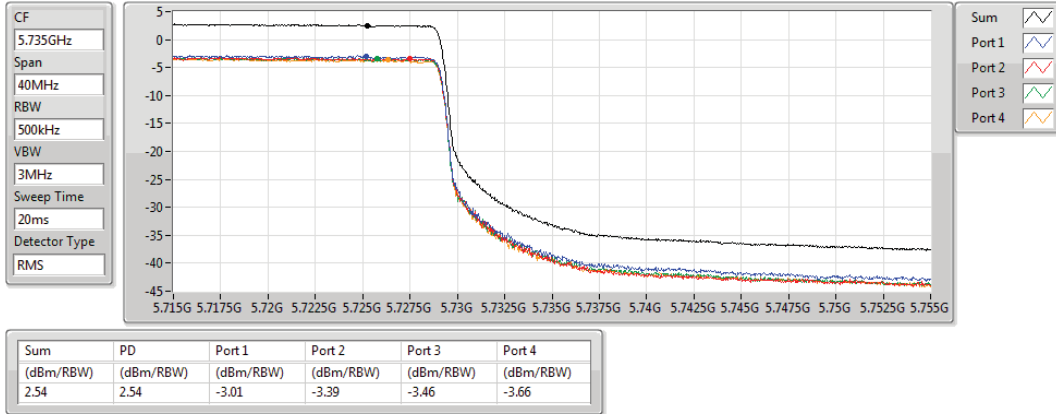


802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5690MHz Straddle 5.725-5.85GHz

PSD

20/01/2020

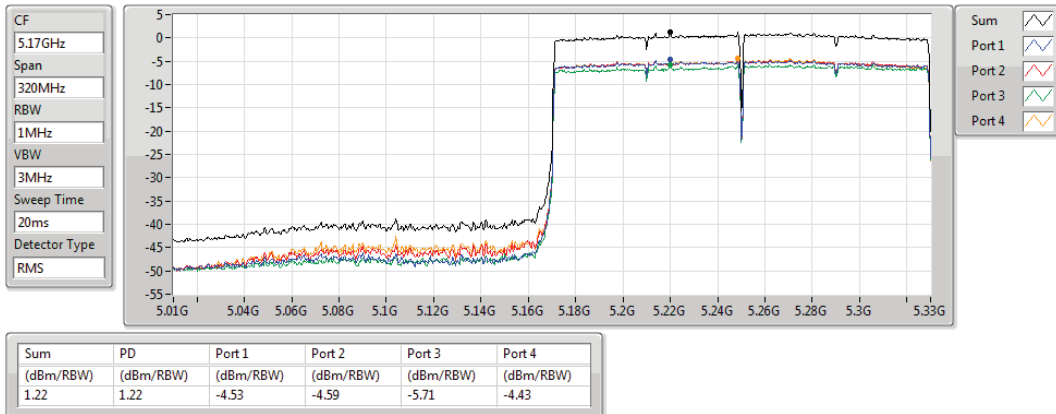


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.15-5.25GHz

PSD

25/02/2020

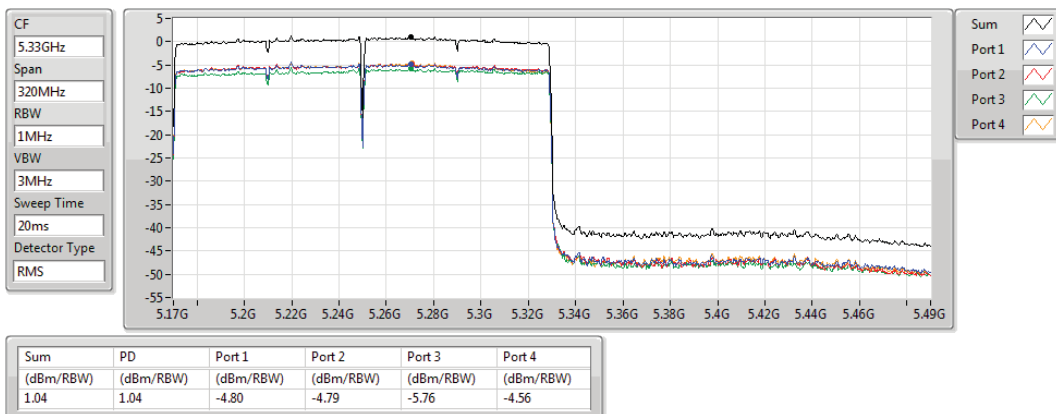


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

5250MHz Straddle 5.25-5.35GHz

PSD

25/02/2020

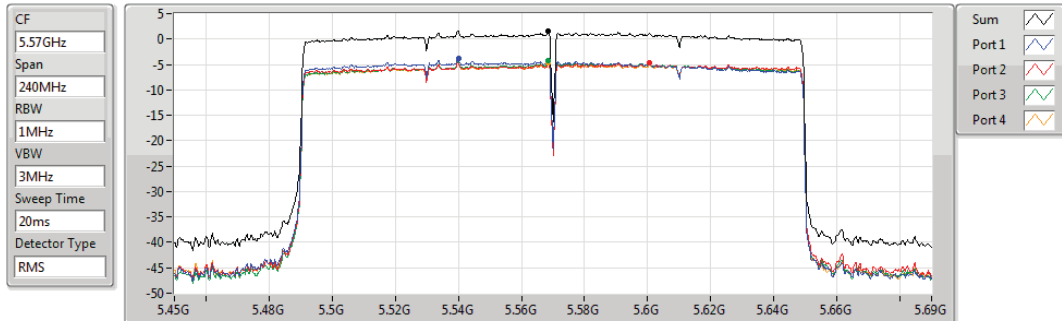


802.11ax HEW160-BF_Nss1,(MCS0)_4TX

PSD

5570MHz

17/02/2020



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
1.61	1.61	-3.78	-4.69	-4.31	-4.64



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW160_Nss4,(MCS0)_4TX	Pass	PK	856.44M	41.89	46.00	-4.11	3	Horizontal	360	1.00	-

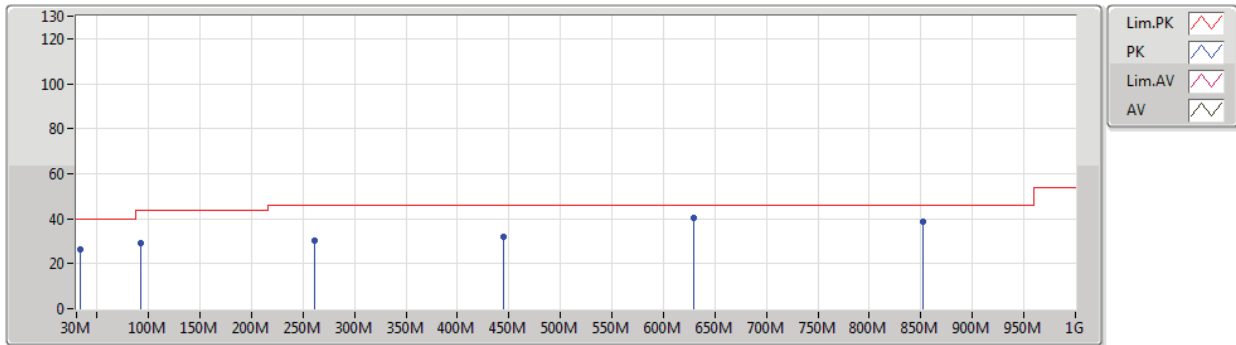
**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	PK	33.88M	26.28	40.00	-13.72	3	Vertical	0	1.00	-
5570MHz	Pass	PK	92.08M	29.00	43.50	-14.50	3	Vertical	0	1.00	-
5570MHz	Pass	PK	260.86M	30.08	46.00	-15.92	3	Vertical	0	1.00	-
5570MHz	Pass	PK	445.16M	31.89	46.00	-14.11	3	Vertical	0	1.00	-
5570MHz	Pass	PK	629.46M	40.29	46.00	-5.71	3	Vertical	0	1.00	-
5570MHz	Pass	PK	852.56M	38.47	46.00	-7.53	3	Vertical	0	1.00	-
5570MHz	Pass	PK	92.08M	26.43	43.50	-17.07	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	148.34M	26.99	43.50	-16.51	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	255.04M	30.78	46.00	-15.22	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	367.56M	31.53	46.00	-14.47	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	660.5M	35.15	46.00	-10.85	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	856.44M	41.89	46.00	-4.11	3	Horizontal	360	1.00	-

802.11ax HEW160_Nss4,(MCS0)_4TX

30/12/2019

5570MHz_Adapter

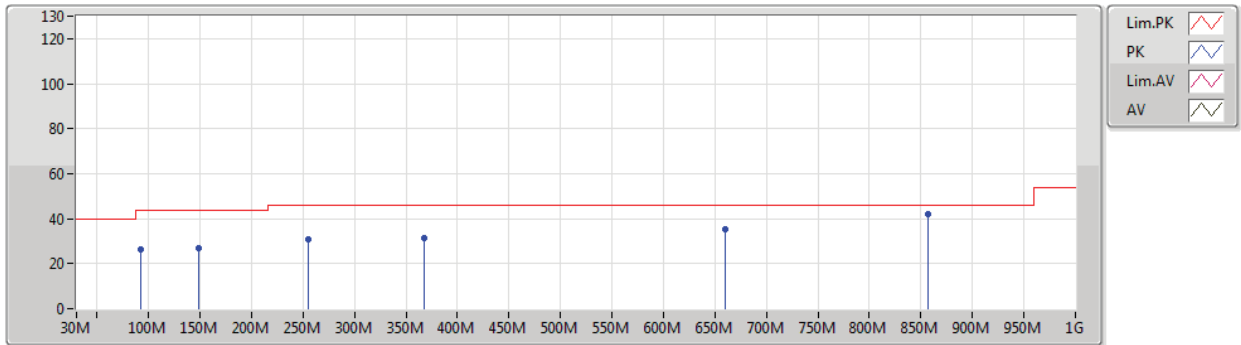


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	26.28	40.00	-13.72	-6.72	3	Vertical	0	1.00	-	33.00	19.98	0.86	27.56
PK	92.08M	29.00	43.50	-14.50	-11.45	3	Vertical	0	1.00	-	40.45	14.50	1.45	27.40
PK	260.86M	30.08	46.00	-15.92	-5.55	3	Vertical	0	1.00	-	35.63	18.64	2.54	26.73
PK	445.16M	31.89	46.00	-14.11	-2.48	3	Vertical	0	1.00	-	34.37	21.81	3.37	27.66
PK	629.46M	40.29	46.00	-5.71	0.21	3	Vertical	0	1.00	-	40.08	24.16	4.14	28.09
PK	852.56M	38.47	46.00	-7.53	2.49	3	Vertical	0	1.00	-	35.98	25.34	4.88	27.73

802.11ax HEW160_Nss4,(MCS0)_4TX

30/12/2019

5570MHz_Adapter



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	92.08M	26.43	43.50	-17.07	-11.45	3	Horizontal	360	1.00	-	37.88	14.50	1.45	27.40
PK	148.34M	26.99	43.50	-16.51	-9.66	3	Horizontal	360	1.00	-	36.65	15.65	1.88	27.19
PK	255.04M	30.78	46.00	-15.22	-6.13	3	Horizontal	360	1.00	-	36.91	18.09	2.51	26.73
PK	367.56M	31.53	46.00	-14.47	-4.18	3	Horizontal	360	1.00	-	35.71	19.87	3.04	27.09
PK	660.5M	35.15	46.00	-10.85	0.15	3	Horizontal	360	1.00	-	35.00	24.03	4.22	28.10
PK	856.44M	41.89	46.00	-4.11	2.54	3	Horizontal	360	1.00	-	39.35	25.37	4.88	27.71



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	Pass	PK	39.7M	36.86	40.00	-3.14	3	Horizontal	360	1.00	-

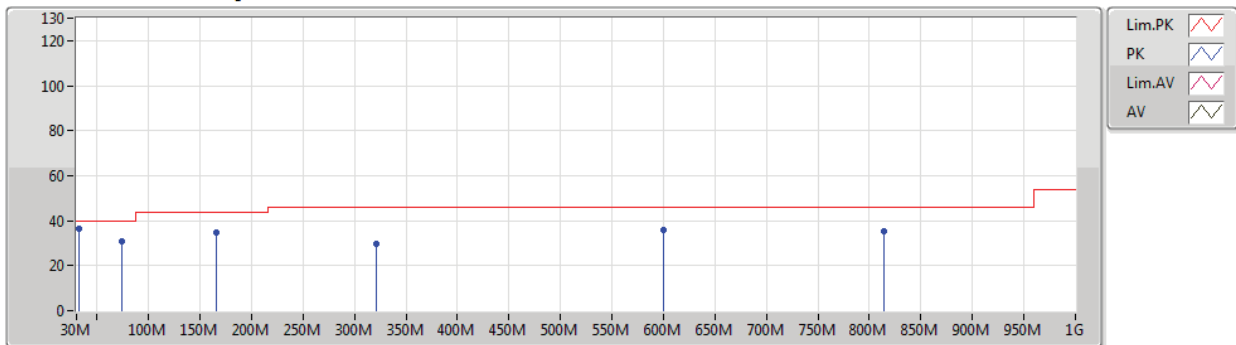
**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW160-BF_Nss1.(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	PK	31.94M	36.60	40.00	-3.40	3	Vertical	0	1.00	-
5570MHz	Pass	PK	74.62M	31.05	40.00	-8.95	3	Vertical	0	1.00	-
5570MHz	Pass	PK	165.8M	34.81	43.50	-8.69	3	Vertical	0	1.00	-
5570MHz	Pass	PK	321M	29.64	46.00	-16.36	3	Vertical	0	1.00	-
5570MHz	Pass	PK	600.36M	35.88	46.00	-10.12	3	Vertical	0	1.00	-
5570MHz	Pass	PK	813.76M	35.38	46.00	-10.62	3	Vertical	0	1.00	-
5570MHz	Pass	PK	39.7M	36.86	40.00	-3.14	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	163.86M	37.20	43.50	-6.30	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	191.02M	33.81	43.50	-9.69	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	365.62M	34.33	46.00	-11.67	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	722.58M	37.79	46.00	-8.21	3	Horizontal	360	1.00	-
5570MHz	Pass	PK	813.76M	42.80	46.00	-3.20	3	Horizontal	360	1.00	-

802.11ax HEW160-BF_Nss1,(MCS0)_4TX

25/02/2020

5570MHz_Adapter

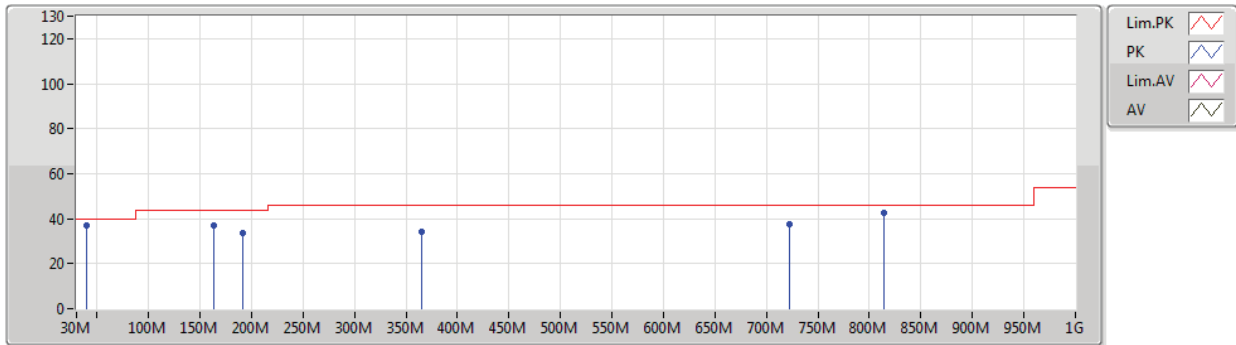


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	31.94M	36.60	40.00	-3.40	-3.37	3	Vertical	0	1.00	-	39.97	23.37	0.83	27.57
PK	74.62M	31.05	40.00	-8.95	-13.63	3	Vertical	0	1.00	-	44.68	12.51	1.30	27.44
PK	165.8M	34.81	43.50	-8.69	-9.19	3	Vertical	0	1.00	-	44.00	15.93	1.99	27.11
PK	321M	29.64	46.00	-16.36	-4.51	3	Vertical	0	1.00	-	34.15	19.47	2.84	26.82
PK	600.36M	35.88	46.00	-10.12	1.66	3	Vertical	0	1.00	-	34.22	25.63	4.08	28.05
PK	813.76M	35.38	46.00	-10.62	5.24	3	Vertical	0	1.00	-	30.14	28.29	4.78	27.83

802.11ax HEW160-BF_Nss1,(MCS0)_4TX

25/02/2020

5570MHz_Adapter



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	39.7M	36.86	40.00	-3.14	-7.25	3	Horizontal	360	1.00	-	44.11	19.36	0.93	27.54
PK	163.86M	37.20	43.50	-6.30	-9.04	3	Horizontal	360	1.00	-	46.24	16.10	1.98	27.12
PK	191.02M	33.81	43.50	-9.69	-10.00	3	Horizontal	360	1.00	-	43.81	14.82	2.16	26.98
PK	365.62M	34.33	46.00	-11.67	-3.29	3	Horizontal	360	1.00	-	37.62	20.75	3.03	27.07
PK	722.58M	37.79	46.00	-8.21	3.72	3	Horizontal	360	1.00	-	34.07	27.33	4.43	28.04
PK	813.76M	42.80	46.00	-3.20	5.24	3	Horizontal	360	1.00	-	37.56	28.29	4.78	27.83

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	Pass	AV	10.60117G	53.49	54.00	-0.51	3	Vertical	331	1.85	-
802.11ax HEW20_Nss4,(MCS0)_4TX	Pass	PK	10.52204G	67.45	68.20	-0.75	3	Vertical	335	1.30	-
802.11ac VHT40_Nss4,(MCS0)_4TX	Pass	AV	5.3504G	53.75	54.00	-0.25	3	Vertical	273	1.55	-
802.11ax HEW40_Nss4,(MCS0)_4TX	Pass	AV	5.35G	53.55	54.00	-0.45	3	Vertical	294	1.63	-
802.11ac VHT80_Nss4,(MCS0)_4TX	Pass	AV	5.35G	53.45	54.00	-0.55	3	Vertical	277	1.59	-
802.11ax HEW80_Nss4,(MCS0)_4TX	Pass	AV	5.351G	53.14	54.00	-0.86	3	Vertical	296	1.65	-
802.11ac VHT160_Nss4,(MCS0)_4TX	Pass	AV	5.4264G	53.96	54.00	-0.04	3	Vertical	276	1.53	-
802.11ax HEW160_Nss4,(MCS0)_4TX	Pass	AV	5.118G	53.81	54.00	-0.19	3	Vertical	8	1.59	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss4,(MCS0)_4TX	Pass	PK	5.4696G	67.57	68.20	-0.63	3	Vertical	280	1.42	-
802.11ax HEW20_Nss4,(MCS0)_4TX	Pass	PK	5.4678G	67.82	68.20	-0.38	3	Vertical	32	1.31	-
802.11ac VHT40_Nss4,(MCS0)_4TX	Pass	PK	5.4696G	68.16	68.20	-0.04	3	Vertical	253	1.63	-
802.11ax HEW40_Nss4,(MCS0)_4TX	Pass	PK	5.4668G	67.70	68.20	-0.50	3	Vertical	279	1.54	-
802.11ac VHT80_Nss4,(MCS0)_4TX	Pass	PK	5.73G	67.95	68.20	-0.25	3	Vertical	28	1.35	-
802.11ax HEW80_Nss4,(MCS0)_4TX	Pass	PK	5.727G	68.11	68.20	-0.09	3	Vertical	285	1.58	-
802.11ac VHT160_Nss4,(MCS0)_4TX	Pass	AV	5.4536G	53.38	54.00	-0.62	3	Vertical	29	1.40	-
802.11ax HEW160_Nss4,(MCS0)_4TX	Pass	AV	5.4584G	53.43	54.00	-0.57	3	Vertical	30	1.50	-

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT20_Nss4(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1484G	47.19	54.00	-6.81	3	Vertical	271	1.71	-
5260MHz	Pass	AV	5.2666G	109.68	Inf	-Inf	3	Vertical	271	1.71	-
5260MHz	Pass	AV	5.35G	47.84	54.00	-6.16	3	Vertical	271	1.71	-
5260MHz	Pass	PK	5.125G	59.67	74.00	-14.33	3	Vertical	271	1.71	-
5260MHz	Pass	PK	5.2666G	118.82	Inf	-Inf	3	Vertical	271	1.71	-
5260MHz	Pass	PK	5.3578G	60.99	74.00	-13.01	3	Vertical	271	1.71	-
5260MHz	Pass	AV	5.1184G	46.40	54.00	-7.60	3	Horizontal	177	1.74	-
5260MHz	Pass	AV	5.2534G	102.18	Inf	-Inf	3	Horizontal	177	1.74	-
5260MHz	Pass	AV	5.4028G	46.41	54.00	-7.59	3	Horizontal	177	1.74	-
5260MHz	Pass	PK	5.1424G	58.70	74.00	-15.30	3	Horizontal	177	1.74	-
5260MHz	Pass	PK	5.254G	111.58	Inf	-Inf	3	Horizontal	177	1.74	-
5260MHz	Pass	PK	5.3758G	59.64	74.00	-14.36	3	Horizontal	177	1.74	-
5260MHz	Pass	PK	10.52288G	67.62	68.20	-0.58	3	Vertical	91	1.49	-
5260MHz	Pass	PK	15.7695G	58.06	74.00	-15.94	3	Vertical	324	1.50	-
5260MHz	Pass	AV	15.76518G	44.45	54.00	-9.55	3	Vertical	324	1.50	-
5260MHz	Pass	AV	15.76668G	44.55	54.00	-9.45	3	Horizontal	316	1.50	-
5260MHz	Pass	PK	10.52042G	63.45	68.20	-4.75	3	Horizontal	291	2.09	-
5260MHz	Pass	PK	15.7653G	58.06	74.00	-15.94	3	Horizontal	316	1.50	-
5300MHz	Pass	AV	5.302G	109.88	Inf	-Inf	3	Vertical	281	1.59	-
5300MHz	Pass	AV	5.3504G	49.57	54.00	-4.43	3	Vertical	281	1.59	-
5300MHz	Pass	PK	5.2924G	119.51	Inf	-Inf	3	Vertical	281	1.59	-
5300MHz	Pass	PK	5.378G	61.75	74.00	-12.25	3	Vertical	281	1.59	-
5300MHz	Pass	AV	5.2936G	103.27	Inf	-Inf	3	Horizontal	177	1.67	-
5300MHz	Pass	AV	5.3508G	46.71	54.00	-7.29	3	Horizontal	177	1.67	-
5300MHz	Pass	PK	5.2936G	112.78	Inf	-Inf	3	Horizontal	177	1.67	-
5300MHz	Pass	PK	5.3628G	59.24	74.00	-14.76	3	Horizontal	177	1.67	-
5300MHz	Pass	AV	10.60117G	53.49	54.00	-0.51	3	Vertical	331	1.85	-
5300MHz	Pass	AV	15.88962G	43.84	54.00	-10.16	3	Vertical	139	1.50	-
5300MHz	Pass	PK	10.60206G	67.76	74.00	-6.24	3	Vertical	331	1.85	-
5300MHz	Pass	PK	15.90414G	57.95	74.00	-16.05	3	Vertical	139	1.50	-
5300MHz	Pass	AV	10.60047G	48.11	54.00	-5.89	3	Horizontal	175	1.56	-
5300MHz	Pass	AV	15.90072G	44.34	54.00	-9.66	3	Horizontal	287	2.64	-
5300MHz	Pass	PK	10.60034G	62.00	74.00	-12.00	3	Horizontal	175	1.56	-
5300MHz	Pass	PK	15.88584G	58.04	74.00	-15.96	3	Horizontal	287	2.64	-
5320MHz	Pass	AV	5.3266G	108.12	Inf	-Inf	3	Vertical	271	1.69	-
5320MHz	Pass	AV	5.35G	53.31	54.00	-0.69	3	Vertical	271	1.69	-
5320MHz	Pass	PK	5.3264G	117.59	Inf	-Inf	3	Vertical	271	1.69	-
5320MHz	Pass	PK	5.3504G	71.04	74.00	-2.96	3	Vertical	271	1.69	-
5320MHz	Pass	AV	5.3134G	100.15	Inf	-Inf	3	Horizontal	176	1.47	-
5320MHz	Pass	AV	5.35G	48.46	54.00	-5.54	3	Horizontal	176	1.47	-
5320MHz	Pass	PK	5.3138G	110.29	Inf	-Inf	3	Horizontal	176	1.47	-
5320MHz	Pass	PK	5.3502G	62.77	74.00	-11.23	3	Horizontal	176	1.47	-
5320MHz	Pass	AV	10.63874G	49.93	54.00	-4.07	3	Vertical	178	1.89	-
5320MHz	Pass	AV	15.96858G	44.06	54.00	-9.94	3	Vertical	49	1.50	-
5320MHz	Pass	PK	10.63886G	63.04	74.00	-10.96	3	Vertical	178	1.89	-
5320MHz	Pass	PK	15.96822G	57.33	74.00	-16.67	3	Vertical	49	1.50	-
5320MHz	Pass	AV	10.63958G	45.84	54.00	-8.16	3	Horizontal	174	1.50	-

Remark :

Page No. : D2 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5320MHz	Pass	AV	15.9738G	44.40	54.00	-9.60	3	Horizontal	297	2.27	-
5320MHz	Pass	PK	10.64192G	59.54	74.00	-14.46	3	Horizontal	174	1.50	-
5320MHz	Pass	PK	15.97176G	57.83	74.00	-16.17	3	Horizontal	297	2.27	-
5500MHz	Pass	AV	5.46G	48.53	54.00	-5.47	3	Vertical	280	1.42	-
5500MHz	Pass	AV	5.5022G	106.61	Inf	-Inf	3	Vertical	280	1.42	-
5500MHz	Pass	PK	5.4696G	67.57	68.20	-0.63	3	Vertical	280	1.42	-
5500MHz	Pass	PK	5.5026G	116.10	Inf	-Inf	3	Vertical	280	1.42	-
5500MHz	Pass	AV	5.46G	47.05	54.00	-6.95	3	Horizontal	147	1.60	-
5500MHz	Pass	AV	5.4934G	99.44	Inf	-Inf	3	Horizontal	147	1.60	-
5500MHz	Pass	PK	5.4694G	63.48	68.20	-4.72	3	Horizontal	147	1.60	-
5500MHz	Pass	PK	5.4936G	109.82	Inf	-Inf	3	Horizontal	147	1.60	-
5500MHz	Pass	AV	10.9991G	43.04	54.00	-10.96	3	Vertical	76	1.50	-
5500MHz	Pass	PK	10.9982G	56.57	74.00	-17.43	3	Vertical	76	1.50	-
5500MHz	Pass	PK	16.50534G	60.85	68.20	-7.35	3	Vertical	298	1.50	-
5500MHz	Pass	AV	10.99868G	42.17	54.00	-11.83	3	Horizontal	288	1.50	-
5500MHz	Pass	PK	10.99472G	55.41	74.00	-18.59	3	Horizontal	288	1.50	-
5500MHz	Pass	PK	16.4919G	60.12	68.20	-8.08	3	Horizontal	209	1.50	-
5580MHz	Pass	AV	5.4546G	47.86	54.00	-6.14	3	Vertical	26	1.40	-
5580MHz	Pass	AV	5.5734G	112.85	Inf	-Inf	3	Vertical	26	1.40	-
5580MHz	Pass	PK	5.469G	60.06	68.20	-8.14	3	Vertical	26	1.40	-
5580MHz	Pass	PK	5.5788G	122.56	Inf	-Inf	3	Vertical	26	1.40	-
5580MHz	Pass	PK	5.7276G	60.18	68.20	-8.02	3	Vertical	26	1.40	-
5580MHz	Pass	AV	5.4336G	46.46	54.00	-7.54	3	Horizontal	15	1.56	-
5580MHz	Pass	AV	5.5824G	105.89	Inf	-Inf	3	Horizontal	15	1.56	-
5580MHz	Pass	PK	5.4648G	58.56	68.20	-9.64	3	Horizontal	15	1.56	-
5580MHz	Pass	PK	5.5824G	116.16	Inf	-Inf	3	Horizontal	15	1.56	-
5580MHz	Pass	PK	5.7282G	58.83	68.20	-9.37	3	Horizontal	15	1.56	-
5580MHz	Pass	AV	11.15964G	49.23	54.00	-4.77	3	Vertical	77	1.45	-
5580MHz	Pass	PK	11.16198G	62.99	74.00	-11.01	3	Vertical	77	1.45	-
5580MHz	Pass	PK	16.73604G	61.20	68.20	-7.00	3	Vertical	125	1.50	-
5580MHz	Pass	AV	11.15976G	45.43	54.00	-8.57	3	Horizontal	273	1.54	-
5580MHz	Pass	PK	11.16672G	58.83	74.00	-15.17	3	Horizontal	273	1.54	-
5580MHz	Pass	PK	16.74672G	61.37	68.20	-6.83	3	Horizontal	47	1.50	-
5700MHz	Pass	AV	5.6932G	107.80	Inf	-Inf	3	Vertical	29	1.43	-
5700MHz	Pass	PK	5.6956G	117.02	Inf	-Inf	3	Vertical	29	1.43	-
5700MHz	Pass	PK	5.7256G	67.29	68.20	-0.91	3	Vertical	29	1.43	-
5700MHz	Pass	AV	5.6976G	101.28	Inf	-Inf	3	Horizontal	191	1.39	-
5700MHz	Pass	PK	5.698G	110.77	Inf	-Inf	3	Horizontal	191	1.39	-
5700MHz	Pass	PK	5.7264G	62.35	68.20	-5.85	3	Horizontal	191	1.39	-
5700MHz	Pass	AV	11.39964G	44.98	54.00	-9.02	3	Vertical	18	1.45	-
5700MHz	Pass	PK	11.40072G	58.39	74.00	-15.61	3	Vertical	18	1.45	-
5700MHz	Pass	PK	17.10882G	62.89	68.20	-5.31	3	Vertical	212	2.40	-
5700MHz	Pass	AV	11.39988G	42.61	54.00	-11.39	3	Horizontal	299	1.00	-
5700MHz	Pass	PK	11.38578G	55.58	74.00	-18.42	3	Horizontal	299	1.00	-
5700MHz	Pass	PK	17.0973G	62.45	68.20	-5.75	3	Horizontal	253	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4536G	47.04	54.00	-6.96	3	Vertical	26	1.32	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7128G	113.92	Inf	-Inf	3	Vertical	26	1.32	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	59.23	68.20	-8.97	3	Vertical	26	1.32	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7152G	122.97	Inf	-Inf	3	Vertical	26	1.32	-

Remark :

Page No. : D3 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.852G	61.27	68.20	-6.93	3	Vertical	26	1.32	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4512G	46.55	54.00	-7.45	3	Horizontal	189	1.35	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7176G	105.82	Inf	-Inf	3	Horizontal	189	1.35	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	57.87	68.20	-10.33	3	Horizontal	189	1.35	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7176G	116.02	Inf	-Inf	3	Horizontal	189	1.35	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.894G	60.25	68.20	-7.95	3	Horizontal	189	1.35	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43958G	46.45	54.00	-7.55	3	Vertical	16	1.48	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44384G	59.75	74.00	-14.25	3	Vertical	16	1.48	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16072G	63.63	68.20	-4.57	3	Vertical	223	2.37	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43988G	44.59	54.00	-9.41	3	Horizontal	320	1.71	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.43718G	58.52	74.00	-15.48	3	Horizontal	320	1.71	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.1621G	64.45	68.20	-3.75	3	Horizontal	317	2.79	-
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1418G	46.50	54.00	-7.50	3	Vertical	275	1.62	-
5260MHz	Pass	AV	5.2594G	110.11	Inf	-Inf	3	Vertical	275	1.62	-
5260MHz	Pass	AV	5.3512G	47.43	54.00	-6.57	3	Vertical	275	1.62	-
5260MHz	Pass	PK	5.1478G	58.65	74.00	-15.35	3	Vertical	275	1.62	-
5260MHz	Pass	PK	5.2618G	119.12	Inf	-Inf	3	Vertical	275	1.62	-
5260MHz	Pass	PK	5.3512G	59.46	74.00	-14.54	3	Vertical	275	1.62	-
5260MHz	Pass	AV	5.1466G	45.69	54.00	-8.31	3	Horizontal	142	1.44	-
5260MHz	Pass	AV	5.2522G	104.44	Inf	-Inf	3	Horizontal	142	1.44	-
5260MHz	Pass	AV	5.35G	45.68	54.00	-8.32	3	Horizontal	142	1.44	-
5260MHz	Pass	PK	5.1418G	58.46	74.00	-15.54	3	Horizontal	142	1.44	-
5260MHz	Pass	PK	5.2606G	115.61	Inf	-Inf	3	Horizontal	142	1.44	-
5260MHz	Pass	PK	5.3932G	58.00	74.00	-16.00	3	Horizontal	142	1.44	-
5260MHz	Pass	AV	15.76536G	42.99	54.00	-11.01	3	Vertical	124	2.58	-
5260MHz	Pass	PK	10.52204G	67.45	68.20	-0.75	3	Vertical	335	1.30	-
5260MHz	Pass	PK	15.76962G	56.55	74.00	-17.45	3	Vertical	124	2.58	-
5260MHz	Pass	AV	15.7881G	44.51	54.00	-9.49	3	Horizontal	294	1.50	-
5260MHz	Pass	PK	10.52816G	64.24	68.20	-3.96	3	Horizontal	5	1.47	-
5260MHz	Pass	PK	15.78726G	57.70	74.00	-16.30	3	Horizontal	294	1.50	-
5300MHz	Pass	AV	5.2964G	108.79	Inf	-Inf	3	Vertical	10	1.64	-
5300MHz	Pass	AV	5.3504G	50.25	54.00	-3.75	3	Vertical	10	1.64	-
5300MHz	Pass	PK	5.3068G	119.35	Inf	-Inf	3	Vertical	10	1.64	-
5300MHz	Pass	PK	5.3508G	63.13	74.00	-10.87	3	Vertical	10	1.64	-
5300MHz	Pass	AV	5.3036G	103.13	Inf	-Inf	3	Horizontal	142	2.13	-
5300MHz	Pass	AV	5.35G	47.08	54.00	-6.92	3	Horizontal	142	2.13	-
5300MHz	Pass	PK	5.2976G	113.46	Inf	-Inf	3	Horizontal	142	2.13	-
5300MHz	Pass	PK	5.35G	60.05	74.00	-13.95	3	Horizontal	142	2.13	-
5300MHz	Pass	AV	10.60218G	53.14	54.00	-0.86	3	Vertical	187	1.49	-
5300MHz	Pass	AV	15.8889G	42.17	54.00	-11.83	3	Vertical	118	1.14	-
5300MHz	Pass	PK	10.60129G	64.60	74.00	-9.40	3	Vertical	187	1.49	-
5300MHz	Pass	PK	15.885G	56.02	74.00	-17.98	3	Vertical	118	1.14	-
5300MHz	Pass	AV	10.60232G	48.28	54.00	-5.72	3	Horizontal	0	1.50	-
5300MHz	Pass	AV	15.89544G	44.01	54.00	-9.99	3	Horizontal	292	2.07	-
5300MHz	Pass	PK	10.60066G	61.27	74.00	-12.73	3	Horizontal	0	1.50	-
5300MHz	Pass	PK	15.90378G	57.45	74.00	-16.55	3	Horizontal	292	2.07	-
5320MHz	Pass	AV	5.3174G	107.28	Inf	-Inf	3	Vertical	305	1.64	-
5320MHz	Pass	AV	5.35G	53.02	54.00	-0.98	3	Vertical	305	1.64	-

Remark :

Page No. : D4 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5320MHz	Pass	PK	5.3184G	116.24	Inf	-Inf	3	Vertical	305	1.64	-
5320MHz	Pass	PK	5.35G	66.99	74.00	-7.01	3	Vertical	305	1.64	-
5320MHz	Pass	AV	5.3252G	101.33	Inf	-Inf	3	Horizontal	150	2.23	-
5320MHz	Pass	AV	5.351G	49.28	54.00	-4.72	3	Horizontal	150	2.23	-
5320MHz	Pass	PK	5.3278G	111.72	Inf	-Inf	3	Horizontal	150	2.23	-
5320MHz	Pass	PK	5.3522G	61.48	74.00	-12.52	3	Horizontal	150	2.23	-
5320MHz	Pass	AV	10.63382G	51.54	54.00	-2.46	3	Vertical	332	1.86	-
5320MHz	Pass	AV	15.97446G	42.33	54.00	-11.67	3	Vertical	67	1.50	-
5320MHz	Pass	PK	10.63808G	63.36	74.00	-10.64	3	Vertical	332	1.86	-
5320MHz	Pass	PK	15.97464G	56.10	74.00	-17.90	3	Vertical	67	1.50	-
5320MHz	Pass	AV	10.63382G	46.66	54.00	-7.34	3	Horizontal	61	1.70	-
5320MHz	Pass	AV	15.96678G	44.09	54.00	-9.91	3	Horizontal	230	2.40	-
5320MHz	Pass	PK	10.63394G	58.79	74.00	-15.21	3	Horizontal	61	1.70	-
5320MHz	Pass	PK	15.95904G	57.44	74.00	-16.56	3	Horizontal	230	2.40	-
5500MHz	Pass	AV	5.46G	49.70	54.00	-4.30	3	Vertical	32	1.31	-
5500MHz	Pass	AV	5.4982G	106.49	Inf	-Inf	3	Vertical	32	1.31	-
5500MHz	Pass	PK	5.4678G	67.82	68.20	-0.38	3	Vertical	32	1.31	-
5500MHz	Pass	PK	5.4986G	115.52	Inf	-Inf	3	Vertical	32	1.31	-
5500MHz	Pass	AV	5.4594G	46.55	54.00	-7.45	3	Horizontal	143	1.50	-
5500MHz	Pass	AV	5.5038G	99.79	Inf	-Inf	3	Horizontal	143	1.50	-
5500MHz	Pass	PK	5.4694G	63.06	68.20	-5.14	3	Horizontal	143	1.50	-
5500MHz	Pass	PK	5.4968G	109.05	Inf	-Inf	3	Horizontal	143	1.50	-
5500MHz	Pass	AV	11.00066G	43.52	54.00	-10.48	3	Vertical	74	1.50	-
5500MHz	Pass	PK	11.00012G	56.13	74.00	-17.87	3	Vertical	74	1.50	-
5500MHz	Pass	PK	16.49718G	59.07	68.20	-9.13	3	Vertical	153	1.50	-
5500MHz	Pass	AV	11.00078G	41.40	54.00	-12.60	3	Horizontal	147	1.46	-
5500MHz	Pass	PK	10.99454G	54.72	74.00	-19.28	3	Horizontal	147	1.46	-
5500MHz	Pass	PK	16.50648G	58.78	68.20	-9.42	3	Horizontal	297	1.80	-
5580MHz	Pass	AV	5.4594G	46.75	54.00	-7.25	3	Vertical	27	1.37	-
5580MHz	Pass	AV	5.5812G	111.38	Inf	-Inf	3	Vertical	27	1.37	-
5580MHz	Pass	PK	5.4672G	59.21	68.20	-8.99	3	Vertical	27	1.37	-
5580MHz	Pass	PK	5.5836G	122.16	Inf	-Inf	3	Vertical	27	1.37	-
5580MHz	Pass	PK	5.73G	59.58	68.20	-8.62	3	Vertical	27	1.37	-
5580MHz	Pass	AV	5.4582G	45.55	54.00	-8.45	3	Horizontal	156	1.56	-
5580MHz	Pass	AV	5.5824G	104.60	Inf	-Inf	3	Horizontal	156	1.56	-
5580MHz	Pass	PK	5.4642G	57.83	68.20	-10.37	3	Horizontal	156	1.56	-
5580MHz	Pass	PK	5.5788G	114.91	Inf	-Inf	3	Horizontal	156	1.56	-
5580MHz	Pass	PK	5.7288G	57.43	68.20	-10.77	3	Horizontal	156	1.56	-
5580MHz	Pass	AV	11.15898G	49.97	54.00	-4.03	3	Vertical	77	1.48	-
5580MHz	Pass	PK	11.16306G	60.49	74.00	-13.51	3	Vertical	77	1.48	-
5580MHz	Pass	PK	16.7325G	60.76	68.20	-7.44	3	Vertical	42	3.00	-
5580MHz	Pass	AV	11.16318G	45.68	54.00	-8.32	3	Horizontal	149	1.36	-
5580MHz	Pass	PK	11.16702G	57.35	74.00	-16.65	3	Horizontal	149	1.36	-
5580MHz	Pass	PK	16.7256G	59.69	68.20	-8.51	3	Horizontal	318	1.46	-
5700MHz	Pass	AV	5.6956G	106.83	Inf	-Inf	3	Vertical	37	1.23	-
5700MHz	Pass	PK	5.6988G	116.41	Inf	-Inf	3	Vertical	37	1.23	-
5700MHz	Pass	PK	5.7252G	67.69	68.20	-0.51	3	Vertical	37	1.23	-
5700MHz	Pass	AV	5.6956G	100.52	Inf	-Inf	3	Horizontal	190	1.38	-
5700MHz	Pass	PK	5.6964G	110.50	Inf	-Inf	3	Horizontal	190	1.38	-

Remark :

Page No. : D5 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5700MHz	Pass	PK	5.726G	64.93	68.20	-3.27	3	Horizontal	190	1.38	-
5700MHz	Pass	AV	11.39928G	43.50	54.00	-10.50	3	Vertical	18	1.65	-
5700MHz	Pass	PK	11.3952G	56.86	74.00	-17.14	3	Vertical	18	1.65	-
5700MHz	Pass	PK	17.10738G	62.85	68.20	-5.35	3	Vertical	270	1.01	-
5700MHz	Pass	AV	11.40006G	43.91	54.00	-10.09	3	Horizontal	298	1.00	-
5700MHz	Pass	PK	11.39208G	56.55	74.00	-17.45	3	Horizontal	298	1.00	-
5700MHz	Pass	PK	17.09334G	62.73	68.20	-5.47	3	Horizontal	305	1.50	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4572G	45.88	54.00	-8.12	3	Vertical	32	1.31	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7104G	111.51	Inf	-Inf	3	Vertical	32	1.31	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	58.19	68.20	-10.01	3	Vertical	32	1.31	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7116G	121.22	Inf	-Inf	3	Vertical	32	1.31	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8772G	60.30	68.20	-7.90	3	Vertical	32	1.31	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.456G	45.21	54.00	-8.79	3	Horizontal	156	1.49	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7104G	103.86	Inf	-Inf	3	Horizontal	156	1.49	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	56.65	68.20	-11.55	3	Horizontal	156	1.49	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7176G	113.86	Inf	-Inf	3	Horizontal	156	1.49	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8832G	59.83	68.20	-8.37	3	Horizontal	156	1.49	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43892G	46.11	54.00	-7.89	3	Vertical	17	1.40	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44474G	58.88	74.00	-15.12	3	Vertical	17	1.40	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.16018G	62.23	68.20	-5.97	3	Vertical	225	1.49	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.4427G	43.65	54.00	-10.35	3	Horizontal	321	1.60	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44444G	57.02	74.00	-16.98	3	Horizontal	321	1.60	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	17.15952G	62.59	68.20	-5.61	3	Horizontal	304	1.42	-
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	AV	5.2864G	107.82	Inf	-Inf	3	Vertical	275	1.50	-
5270MHz	Pass	AV	5.3504G	53.72	54.00	-0.28	3	Vertical	275	1.50	-
5270MHz	Pass	PK	5.2836G	117.45	Inf	-Inf	3	Vertical	275	1.50	-
5270MHz	Pass	PK	5.356G	68.08	74.00	-5.92	3	Vertical	275	1.50	-
5270MHz	Pass	AV	5.2736G	101.02	Inf	-Inf	3	Horizontal	177	1.71	-
5270MHz	Pass	AV	5.3508G	48.03	54.00	-5.97	3	Horizontal	177	1.71	-
5270MHz	Pass	PK	5.2732G	111.31	Inf	-Inf	3	Horizontal	177	1.71	-
5270MHz	Pass	PK	5.35G	60.47	74.00	-13.53	3	Horizontal	177	1.71	-
5270MHz	Pass	AV	15.8022G	43.96	54.00	-10.04	3	Vertical	272	1.50	-
5270MHz	Pass	PK	10.53814G	65.91	68.20	-2.29	3	Vertical	91	1.47	-
5270MHz	Pass	PK	15.81204G	57.62	74.00	-16.38	3	Vertical	272	1.50	-
5270MHz	Pass	AV	15.80832G	44.22	54.00	-9.78	3	Horizontal	217	1.36	-
5270MHz	Pass	PK	10.53514G	61.27	68.20	-6.93	3	Horizontal	291	2.09	-
5270MHz	Pass	PK	15.81678G	58.35	74.00	-15.65	3	Horizontal	217	1.36	-
5310MHz	Pass	AV	5.3268G	103.26	Inf	-Inf	3	Vertical	273	1.55	-
5310MHz	Pass	AV	5.3504G	53.75	54.00	-0.25	3	Vertical	273	1.55	-
5310MHz	Pass	PK	5.3068G	112.48	Inf	-Inf	3	Vertical	273	1.55	-
5310MHz	Pass	PK	5.35G	67.34	74.00	-6.66	3	Vertical	273	1.55	-
5310MHz	Pass	AV	5.2932G	96.15	Inf	-Inf	3	Horizontal	177	1.70	-
5310MHz	Pass	AV	5.35G	48.55	54.00	-5.45	3	Horizontal	177	1.70	-
5310MHz	Pass	PK	5.2932G	106.03	Inf	-Inf	3	Horizontal	177	1.70	-
5310MHz	Pass	PK	5.3532G	60.19	74.00	-13.81	3	Horizontal	177	1.70	-
5310MHz	Pass	AV	10.61532G	46.52	54.00	-7.48	3	Vertical	329	1.83	-
5310MHz	Pass	AV	15.924G	43.54	54.00	-10.46	3	Vertical	254	2.02	-
5310MHz	Pass	PK	10.6164G	61.03	74.00	-12.97	3	Vertical	329	1.83	-

Remark :

Page No. : D6 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5310MHz	Pass	PK	15.9366G	57.38	74.00	-16.62	3	Vertical	254	2.02	-
5310MHz	Pass	AV	10.61634G	43.07	54.00	-10.93	3	Horizontal	171	1.50	-
5310MHz	Pass	AV	15.92754G	43.67	54.00	-10.33	3	Horizontal	78	1.50	-
5310MHz	Pass	PK	10.62174G	57.26	74.00	-16.74	3	Horizontal	171	1.50	-
5310MHz	Pass	PK	15.93036G	56.82	74.00	-17.18	3	Horizontal	78	1.50	-
5510MHz	Pass	AV	5.46G	50.73	54.00	-3.27	3	Vertical	253	1.63	-
5510MHz	Pass	AV	5.5176G	102.49	Inf	-Inf	3	Vertical	253	1.63	-
5510MHz	Pass	PK	5.4696G	68.16	68.20	-0.04	3	Vertical	253	1.63	-
5510MHz	Pass	PK	5.5264G	112.53	Inf	-Inf	3	Vertical	253	1.63	-
5510MHz	Pass	AV	5.46G	47.45	54.00	-6.55	3	Horizontal	146	1.57	-
5510MHz	Pass	AV	5.4932G	94.67	Inf	-Inf	3	Horizontal	146	1.57	-
5510MHz	Pass	PK	5.4688G	61.50	68.20	-6.70	3	Horizontal	146	1.57	-
5510MHz	Pass	PK	5.5084G	103.91	Inf	-Inf	3	Horizontal	146	1.57	-
5510MHz	Pass	AV	11.0187G	41.72	54.00	-12.28	3	Vertical	71	1.39	-
5510MHz	Pass	PK	11.0179G	55.18	74.00	-18.82	3	Vertical	71	1.39	-
5510MHz	Pass	PK	16.54416G	60.66	68.20	-7.54	3	Vertical	0	1.00	-
5510MHz	Pass	AV	11.036G	41.42	54.00	-12.58	3	Horizontal	299	1.50	-
5510MHz	Pass	PK	11.0236G	54.41	74.00	-19.59	3	Horizontal	299	1.50	-
5510MHz	Pass	PK	16.54008G	60.80	68.20	-7.40	3	Horizontal	35	1.94	-
5550MHz	Pass	AV	5.46G	51.84	54.00	-2.16	3	Vertical	252	1.69	-
5550MHz	Pass	AV	5.558G	108.66	Inf	-Inf	3	Vertical	252	1.69	-
5550MHz	Pass	PK	5.4604G	67.48	68.20	-0.72	3	Vertical	252	1.69	-
5550MHz	Pass	PK	5.5576G	118.25	Inf	-Inf	3	Vertical	252	1.69	-
5550MHz	Pass	AV	5.46G	47.81	54.00	-6.19	3	Horizontal	145	1.49	-
5550MHz	Pass	AV	5.5532G	99.68	Inf	-Inf	3	Horizontal	145	1.49	-
5550MHz	Pass	PK	5.468G	64.17	68.20	-4.03	3	Horizontal	145	1.49	-
5550MHz	Pass	PK	5.564G	109.36	Inf	-Inf	3	Horizontal	145	1.49	-
5550MHz	Pass	AV	11.0957G	44.57	54.00	-9.43	3	Vertical	74	1.50	-
5550MHz	Pass	PK	11.1124G	57.73	74.00	-16.27	3	Vertical	74	1.50	-
5550MHz	Pass	PK	16.65396G	60.81	68.20	-7.39	3	Vertical	63	1.52	-
5550MHz	Pass	AV	11.10186G	42.46	54.00	-11.54	3	Horizontal	295	1.64	-
5550MHz	Pass	PK	11.10408G	55.69	74.00	-18.31	3	Horizontal	295	1.64	-
5550MHz	Pass	PK	16.6473G	60.76	68.20	-7.44	3	Horizontal	305	2.27	-
5670MHz	Pass	AV	5.6736G	106.72	Inf	-Inf	3	Vertical	26	1.41	-
5670MHz	Pass	PK	5.6604G	116.13	Inf	-Inf	3	Vertical	26	1.41	-
5670MHz	Pass	PK	5.7324G	67.62	68.20	-0.58	3	Vertical	26	1.41	-
5670MHz	Pass	AV	5.6778G	99.24	Inf	-Inf	3	Horizontal	189	1.35	-
5670MHz	Pass	PK	5.6802G	108.87	Inf	-Inf	3	Horizontal	189	1.35	-
5670MHz	Pass	PK	5.7252G	62.30	68.20	-5.90	3	Horizontal	189	1.35	-
5670MHz	Pass	AV	11.3358G	44.00	54.00	-10.00	3	Vertical	15	1.60	-
5670MHz	Pass	PK	11.34126G	57.49	74.00	-16.51	3	Vertical	15	1.60	-
5670MHz	Pass	PK	17.0139G	61.35	68.20	-6.85	3	Vertical	147	1.50	-
5670MHz	Pass	AV	11.33994G	42.69	54.00	-11.31	3	Horizontal	289	1.61	-
5670MHz	Pass	PK	11.35212G	54.87	74.00	-19.13	3	Horizontal	289	1.61	-
5670MHz	Pass	PK	17.01582G	61.51	68.20	-6.69	3	Horizontal	208	1.30	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4592G	47.08	54.00	-6.92	3	Vertical	26	1.32	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7136G	110.46	Inf	-Inf	3	Vertical	26	1.32	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.46G	59.46	68.20	-8.74	3	Vertical	26	1.32	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.7136G	118.98	Inf	-Inf	3	Vertical	26	1.32	-

Remark :

Page No. : D7 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.878G	62.38	68.20	-5.82	3	Vertical	26	1.32	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4508G	46.43	54.00	-7.57	3	Horizontal	189	1.34	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7184G	102.04	Inf	-Inf	3	Horizontal	189	1.34	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.46G	58.54	68.20	-9.66	3	Horizontal	189	1.34	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.7208G	112.48	Inf	-Inf	3	Horizontal	189	1.34	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.9296G	61.27	68.20	-6.93	3	Horizontal	189	1.34	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.4148G	44.16	54.00	-9.84	3	Vertical	16	1.49	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.4112G	57.90	74.00	-16.10	3	Vertical	16	1.49	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.13756G	63.12	68.20	-5.08	3	Vertical	291	1.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.4201G	42.51	54.00	-11.49	3	Horizontal	326	1.62	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.4166G	56.50	74.00	-17.50	3	Horizontal	326	1.62	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.14116G	62.66	68.20	-5.54	3	Horizontal	165	1.50	-
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	AV	5.2548G	107.73	Inf	-Inf	3	Vertical	292	1.65	-
5270MHz	Pass	AV	5.3508G	53.20	54.00	-0.80	3	Vertical	292	1.65	-
5270MHz	Pass	PK	5.2604G	118.60	Inf	-Inf	3	Vertical	292	1.65	-
5270MHz	Pass	PK	5.3552G	67.29	74.00	-6.71	3	Vertical	292	1.65	-
5270MHz	Pass	AV	5.2788G	101.05	Inf	-Inf	3	Horizontal	254	1.44	-
5270MHz	Pass	AV	5.3516G	47.71	54.00	-6.29	3	Horizontal	254	1.44	-
5270MHz	Pass	PK	5.2788G	110.65	Inf	-Inf	3	Horizontal	254	1.44	-
5270MHz	Pass	PK	5.3516G	61.09	74.00	-12.91	3	Horizontal	254	1.44	-
5270MHz	Pass	AV	15.7854G	43.62	54.00	-10.38	3	Vertical	131	2.67	-
5270MHz	Pass	PK	10.5398G	65.33	68.20	-2.87	3	Vertical	330	1.25	-
5270MHz	Pass	PK	15.7875G	57.78	74.00	-16.22	3	Vertical	131	2.67	-
5270MHz	Pass	AV	15.789G	43.51	54.00	-10.49	3	Horizontal	301	1.50	-
5270MHz	Pass	PK	10.5372G	60.63	68.20	-7.57	3	Horizontal	360	1.54	-
5270MHz	Pass	PK	15.7887G	57.40	74.00	-16.60	3	Horizontal	301	1.50	-
5310MHz	Pass	AV	5.3204G	103.17	Inf	-Inf	3	Vertical	294	1.63	-
5310MHz	Pass	AV	5.35G	53.55	54.00	-0.45	3	Vertical	294	1.63	-
5310MHz	Pass	PK	5.3004G	114.24	Inf	-Inf	3	Vertical	294	1.63	-
5310MHz	Pass	PK	5.35G	65.51	74.00	-8.49	3	Vertical	294	1.63	-
5310MHz	Pass	AV	5.3084G	96.46	Inf	-Inf	3	Horizontal	254	1.51	-
5310MHz	Pass	AV	5.3512G	48.73	54.00	-5.27	3	Horizontal	254	1.51	-
5310MHz	Pass	PK	5.3184G	105.46	Inf	-Inf	3	Horizontal	254	1.51	-
5310MHz	Pass	PK	5.358G	60.70	74.00	-13.30	3	Horizontal	254	1.51	-
5310MHz	Pass	AV	10.6201G	49.98	54.00	-4.02	3	Vertical	330	1.33	-
5310MHz	Pass	AV	15.93258G	43.34	54.00	-10.66	3	Vertical	38	2.45	-
5310MHz	Pass	PK	10.6148G	60.88	74.00	-13.12	3	Vertical	330	1.33	-
5310MHz	Pass	PK	15.9231G	56.83	74.00	-17.17	3	Vertical	38	2.45	-
5310MHz	Pass	AV	10.61682G	44.18	54.00	-9.82	3	Horizontal	141	2.10	-
5310MHz	Pass	AV	15.91668G	43.26	54.00	-10.74	3	Horizontal	276	1.50	-
5310MHz	Pass	PK	10.62132G	57.62	74.00	-16.38	3	Horizontal	141	2.10	-
5310MHz	Pass	PK	15.93276G	56.67	74.00	-17.33	3	Horizontal	276	1.50	-
5510MHz	Pass	AV	5.4572G	52.58	54.00	-1.42	3	Vertical	279	1.54	-
5510MHz	Pass	AV	5.5072G	104.38	Inf	-Inf	3	Vertical	279	1.54	-
5510MHz	Pass	PK	5.4668G	67.70	68.20	-0.50	3	Vertical	279	1.54	-
5510MHz	Pass	PK	5.4972G	114.02	Inf	-Inf	3	Vertical	279	1.54	-
5510MHz	Pass	AV	5.4584G	48.58	54.00	-5.42	3	Horizontal	253	1.60	-
5510MHz	Pass	AV	5.4964G	96.98	Inf	-Inf	3	Horizontal	253	1.60	-

Remark :

Page No. : D8 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5510MHz	Pass	PK	5.4676G	62.23	68.20	-5.97	3	Horizontal	253	1.60	-
5510MHz	Pass	PK	5.5216G	106.18	Inf	-Inf	3	Horizontal	253	1.60	-
5510MHz	Pass	AV	11.0187G	42.35	54.00	-11.65	3	Vertical	77	1.50	-
5510MHz	Pass	PK	11.0183G	55.01	74.00	-18.99	3	Vertical	77	1.50	-
5510MHz	Pass	PK	16.545G	60.05	68.20	-8.15	3	Vertical	175	1.21	-
5510MHz	Pass	AV	11.0365G	41.10	54.00	-12.90	3	Horizontal	31	1.85	-
5510MHz	Pass	PK	11.0374G	54.40	74.00	-19.60	3	Horizontal	31	1.85	-
5510MHz	Pass	PK	16.5508G	60.29	68.20	-7.91	3	Horizontal	341	1.50	-
5550MHz	Pass	AV	5.458G	51.28	54.00	-2.72	3	Vertical	30	1.56	-
5550MHz	Pass	AV	5.5628G	107.94	Inf	-Inf	3	Vertical	30	1.56	-
5550MHz	Pass	PK	5.468G	67.26	68.20	-0.94	3	Vertical	30	1.56	-
5550MHz	Pass	PK	5.5584G	118.32	Inf	-Inf	3	Vertical	30	1.56	-
5550MHz	Pass	AV	5.46G	47.59	54.00	-6.41	3	Horizontal	251	1.61	-
5550MHz	Pass	AV	5.5368G	100.01	Inf	-Inf	3	Horizontal	251	1.61	-
5550MHz	Pass	PK	5.4696G	61.10	68.20	-7.10	3	Horizontal	251	1.61	-
5550MHz	Pass	PK	5.5616G	109.63	Inf	-Inf	3	Horizontal	251	1.61	-
5550MHz	Pass	AV	11.0988G	45.18	54.00	-8.82	3	Vertical	78	1.50	-
5550MHz	Pass	PK	11.1094G	58.14	74.00	-15.86	3	Vertical	78	1.50	-
5550MHz	Pass	PK	16.65006G	60.33	68.20	-7.87	3	Vertical	324	1.47	-
5550MHz	Pass	AV	11.1028G	42.56	54.00	-11.44	3	Horizontal	254	1.50	-
5550MHz	Pass	PK	11.122G	55.45	74.00	-18.55	3	Horizontal	254	1.50	-
5550MHz	Pass	PK	16.63878G	60.99	68.20	-7.21	3	Horizontal	32	1.50	-
5670MHz	Pass	AV	5.6586G	104.62	Inf	-Inf	3	Vertical	27	1.40	-
5670MHz	Pass	PK	5.6784G	114.97	Inf	-Inf	3	Vertical	27	1.40	-
5670MHz	Pass	PK	5.7336G	67.47	68.20	-0.73	3	Vertical	27	1.40	-
5670MHz	Pass	AV	5.6682G	97.61	Inf	-Inf	3	Horizontal	187	1.48	-
5670MHz	Pass	PK	5.6784G	107.31	Inf	-Inf	3	Horizontal	187	1.48	-
5670MHz	Pass	PK	5.7336G	61.88	68.20	-6.32	3	Horizontal	187	1.48	-
5670MHz	Pass	AV	11.3388G	44.57	54.00	-9.43	3	Vertical	15	1.49	-
5670MHz	Pass	PK	11.3388G	57.11	74.00	-16.89	3	Vertical	15	1.49	-
5670MHz	Pass	PK	17.01102G	57.85	68.20	-10.35	3	Vertical	89	1.68	-
5670MHz	Pass	AV	11.3388G	42.63	54.00	-11.37	3	Horizontal	148	1.47	-
5670MHz	Pass	PK	11.3429G	55.69	74.00	-18.31	3	Horizontal	148	1.47	-
5670MHz	Pass	PK	17.0076G	60.54	68.20	-7.66	3	Horizontal	56	2.97	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4592G	46.89	54.00	-7.11	3	Vertical	64	1.59	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.6992G	109.89	Inf	-Inf	3	Vertical	64	1.59	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4652G	58.30	68.20	-9.90	3	Vertical	64	1.59	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.7088G	120.38	Inf	-Inf	3	Vertical	64	1.59	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.854G	63.46	68.20	-4.74	3	Vertical	64	1.59	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4544G	46.00	54.00	-8.00	3	Horizontal	194	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7028G	101.65	Inf	-Inf	3	Horizontal	194	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4628G	57.78	68.20	-10.42	3	Horizontal	194	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.7028G	110.86	Inf	-Inf	3	Horizontal	194	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.8564G	59.21	68.20	-8.99	3	Horizontal	194	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.4228G	46.16	54.00	-7.84	3	Vertical	85	1.42	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.4186G	58.62	74.00	-15.38	3	Vertical	85	1.42	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.14068G	62.48	68.20	-5.72	3	Vertical	148	1.48	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.4227G	43.16	54.00	-10.84	3	Horizontal	321	1.64	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.42288G	56.78	74.00	-17.22	3	Horizontal	321	1.64	-

Remark :

Page No. : D9 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5710MHz Straddle 5.47-5.725GHz	Pass	PK	17.11674G	62.14	68.20	-6.06	3	Horizontal	286	1.35	-
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	AV	5.148G	47.89	54.00	-6.11	3	Vertical	277	1.59	-
5290MHz	Pass	AV	5.287G	101.50	Inf	-Inf	3	Vertical	277	1.59	-
5290MHz	Pass	AV	5.35G	53.45	54.00	-0.55	3	Vertical	277	1.59	-
5290MHz	Pass	PK	5.146G	59.81	74.00	-14.19	3	Vertical	277	1.59	-
5290MHz	Pass	PK	5.311G	110.55	Inf	-Inf	3	Vertical	277	1.59	-
5290MHz	Pass	PK	5.356G	65.93	74.00	-8.07	3	Vertical	277	1.59	-
5290MHz	Pass	AV	5.137G	46.42	54.00	-7.58	3	Horizontal	184	1.49	-
5290MHz	Pass	AV	5.293G	92.68	Inf	-Inf	3	Horizontal	184	1.49	-
5290MHz	Pass	AV	5.35G	48.16	54.00	-5.84	3	Horizontal	184	1.49	-
5290MHz	Pass	PK	5.132G	58.76	74.00	-15.24	3	Horizontal	184	1.49	-
5290MHz	Pass	PK	5.256G	102.90	Inf	-Inf	3	Horizontal	184	1.49	-
5290MHz	Pass	PK	5.367G	59.73	74.00	-14.27	3	Horizontal	184	1.49	-
5290MHz	Pass	AV	15.87294G	43.00	54.00	-11.00	3	Vertical	40	1.50	-
5290MHz	Pass	PK	10.58102G	58.69	68.20	-9.51	3	Vertical	184	2.16	-
5290MHz	Pass	PK	15.8689G	56.63	74.00	-17.37	3	Vertical	40	1.50	-
5290MHz	Pass	AV	15.85506G	43.17	54.00	-10.83	3	Horizontal	203	1.75	-
5290MHz	Pass	PK	10.57538G	57.02	68.20	-11.18	3	Horizontal	66	1.50	-
5290MHz	Pass	PK	15.86328G	56.97	74.00	-17.03	3	Horizontal	203	1.75	-
5530MHz	Pass	AV	5.46G	53.28	54.00	-0.72	3	Vertical	281	1.49	-
5530MHz	Pass	AV	5.542G	100.06	Inf	-Inf	3	Vertical	281	1.49	-
5530MHz	Pass	PK	5.464G	67.80	68.20	-0.40	3	Vertical	281	1.49	-
5530MHz	Pass	PK	5.561G	110.00	Inf	-Inf	3	Vertical	281	1.49	-
5530MHz	Pass	PK	5.766G	60.23	68.20	-7.97	3	Vertical	281	1.49	-
5530MHz	Pass	AV	5.46G	48.48	54.00	-5.52	3	Horizontal	192	1.49	-
5530MHz	Pass	AV	5.553G	92.56	Inf	-Inf	3	Horizontal	192	1.49	-
5530MHz	Pass	PK	5.469G	60.92	68.20	-7.28	3	Horizontal	192	1.49	-
5530MHz	Pass	PK	5.522G	102.64	Inf	-Inf	3	Horizontal	192	1.49	-
5530MHz	Pass	PK	5.78G	60.39	68.20	-7.81	3	Horizontal	192	1.49	-
5530MHz	Pass	AV	11.07158G	41.07	54.00	-12.93	3	Vertical	253	1.50	-
5530MHz	Pass	PK	11.05136G	55.02	74.00	-18.98	3	Vertical	253	1.50	-
5530MHz	Pass	PK	16.58268G	60.73	68.20	-7.47	3	Vertical	202	2.23	-
5530MHz	Pass	AV	11.0672G	40.98	54.00	-13.02	3	Horizontal	108	1.52	-
5530MHz	Pass	PK	11.06678G	54.07	74.00	-19.93	3	Horizontal	108	1.52	-
5530MHz	Pass	PK	16.60434G	60.34	68.20	-7.86	3	Horizontal	303	1.18	-
5610MHz	Pass	AV	5.459G	51.11	54.00	-2.89	3	Vertical	28	1.35	-
5610MHz	Pass	AV	5.633G	105.11	Inf	-Inf	3	Vertical	28	1.35	-
5610MHz	Pass	PK	5.464G	64.66	68.20	-3.54	3	Vertical	28	1.35	-
5610MHz	Pass	PK	5.634G	114.31	Inf	-Inf	3	Vertical	28	1.35	-
5610MHz	Pass	PK	5.73G	67.95	68.20	-0.25	3	Vertical	28	1.35	-
5610MHz	Pass	AV	5.46G	47.57	54.00	-6.43	3	Horizontal	193	1.46	-
5610MHz	Pass	AV	5.613G	97.10	Inf	-Inf	3	Horizontal	193	1.46	-
5610MHz	Pass	PK	5.469G	59.77	68.20	-8.43	3	Horizontal	193	1.46	-
5610MHz	Pass	PK	5.602G	106.81	Inf	-Inf	3	Horizontal	193	1.46	-
5610MHz	Pass	PK	5.739G	64.01	68.20	-4.19	3	Horizontal	193	1.46	-
5610MHz	Pass	AV	11.22044G	43.80	54.00	-10.20	3	Vertical	82	1.41	-
5610MHz	Pass	PK	11.22076G	57.94	74.00	-16.06	3	Vertical	82	1.41	-
5610MHz	Pass	PK	16.83666G	59.63	68.20	-8.57	3	Vertical	194	1.04	-

Remark :

Page No. : D10 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5610MHz	Pass	AV	11.22003G	43.67	54.00	-10.33	3	Horizontal	296	1.60	-
5610MHz	Pass	PK	11.21952G	56.23	74.00	-17.77	3	Horizontal	296	1.60	-
5610MHz	Pass	PK	16.82244G	59.47	68.20	-8.73	3	Horizontal	176	1.54	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4584G	48.85	54.00	-5.15	3	Vertical	26	1.35	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.714G	106.56	Inf	-Inf	3	Vertical	26	1.35	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	61.50	68.20	-6.70	3	Vertical	26	1.35	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.7128G	115.52	Inf	-Inf	3	Vertical	26	1.35	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8508G	67.68	68.20	-0.52	3	Vertical	26	1.35	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4584G	46.65	54.00	-7.35	3	Horizontal	193	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.678G	98.66	Inf	-Inf	3	Horizontal	193	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4656G	58.41	68.20	-9.79	3	Horizontal	193	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6924G	109.28	Inf	-Inf	3	Horizontal	193	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8604G	62.88	68.20	-5.32	3	Horizontal	193	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.37718G	43.61	54.00	-10.39	3	Vertical	19	1.45	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.37298G	56.65	74.00	-17.35	3	Vertical	19	1.45	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.08374G	61.05	68.20	-7.15	3	Vertical	71	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.37988G	43.11	54.00	-10.89	3	Horizontal	296	1.63	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.37364G	55.08	74.00	-18.92	3	Horizontal	296	1.63	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.07366G	61.60	68.20	-6.60	3	Horizontal	84	1.85	-
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	AV	5.15G	47.87	54.00	-6.13	3	Vertical	296	1.65	-
5290MHz	Pass	AV	5.295G	100.71	Inf	-Inf	3	Vertical	296	1.65	-
5290MHz	Pass	AV	5.351G	53.14	54.00	-0.86	3	Vertical	296	1.65	-
5290MHz	Pass	PK	5.144G	59.91	74.00	-14.09	3	Vertical	296	1.65	-
5290MHz	Pass	PK	5.26G	109.73	Inf	-Inf	3	Vertical	296	1.65	-
5290MHz	Pass	PK	5.359G	65.21	74.00	-8.79	3	Vertical	296	1.65	-
5290MHz	Pass	AV	5.145G	45.85	54.00	-8.15	3	Horizontal	147	1.44	-
5290MHz	Pass	AV	5.279G	92.46	Inf	-Inf	3	Horizontal	147	1.44	-
5290MHz	Pass	AV	5.35G	48.11	54.00	-5.89	3	Horizontal	147	1.44	-
5290MHz	Pass	PK	5.097G	58.05	74.00	-15.95	3	Horizontal	147	1.44	-
5290MHz	Pass	PK	5.274G	101.92	Inf	-Inf	3	Horizontal	147	1.44	-
5290MHz	Pass	PK	5.354G	60.74	74.00	-13.26	3	Horizontal	147	1.44	-
5290MHz	Pass	AV	15.874G	42.85	54.00	-11.15	3	Vertical	52	1.50	-
5290MHz	Pass	PK	10.5746G	61.42	68.20	-6.78	3	Vertical	336	1.29	-
5290MHz	Pass	PK	15.8636G	56.78	74.00	-17.22	3	Vertical	52	1.50	-
5290MHz	Pass	AV	15.859G	42.86	54.00	-11.14	3	Horizontal	63	2.08	-
5290MHz	Pass	PK	10.57796G	56.57	68.20	-11.63	3	Horizontal	8	1.50	-
5290MHz	Pass	PK	15.8484G	56.37	74.00	-17.63	3	Horizontal	63	2.08	-
5530MHz	Pass	AV	5.457G	53.30	54.00	-0.70	3	Vertical	289	1.53	-
5530MHz	Pass	AV	5.562G	100.62	Inf	-Inf	3	Vertical	289	1.53	-
5530MHz	Pass	PK	5.467G	66.74	68.20	-1.46	3	Vertical	289	1.53	-
5530MHz	Pass	PK	5.517G	109.26	Inf	-Inf	3	Vertical	289	1.53	-
5530MHz	Pass	PK	5.771G	59.41	68.20	-8.79	3	Vertical	289	1.53	-
5530MHz	Pass	AV	5.457G	48.57	54.00	-5.43	3	Horizontal	165	1.00	-
5530MHz	Pass	AV	5.522G	93.74	Inf	-Inf	3	Horizontal	165	1.00	-
5530MHz	Pass	PK	5.467G	61.35	68.20	-6.85	3	Horizontal	165	1.00	-
5530MHz	Pass	PK	5.527G	102.97	Inf	-Inf	3	Horizontal	165	1.00	-
5530MHz	Pass	PK	5.74G	58.56	68.20	-9.64	3	Horizontal	165	1.00	-
5530MHz	Pass	AV	11.0986G	41.38	54.00	-12.62	3	Vertical	81	1.50	-

Remark :

Page No. : D11 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5530MHz	Pass	PK	11.0632G	55.11	74.00	-18.89	3	Vertical	81	1.50	-
5530MHz	Pass	PK	16.575G	60.13	68.20	-8.07	3	Vertical	276	1.29	-
5530MHz	Pass	AV	11.0654G	40.96	54.00	-13.04	3	Horizontal	269	2.85	-
5530MHz	Pass	PK	11.0632G	54.32	74.00	-19.68	3	Horizontal	269	2.85	-
5530MHz	Pass	PK	16.5754G	59.98	68.20	-8.22	3	Horizontal	171	1.50	-
5610MHz	Pass	AV	5.457G	49.15	54.00	-4.85	3	Vertical	285	1.58	-
5610MHz	Pass	AV	5.602G	103.43	Inf	-Inf	3	Vertical	285	1.58	-
5610MHz	Pass	PK	5.462G	61.56	68.20	-6.64	3	Vertical	285	1.58	-
5610MHz	Pass	PK	5.597G	112.10	Inf	-Inf	3	Vertical	285	1.58	-
5610MHz	Pass	PK	5.727G	68.11	68.20	-0.09	3	Vertical	285	1.58	-
5610MHz	Pass	AV	5.458G	46.09	54.00	-7.91	3	Horizontal	196	1.38	-
5610MHz	Pass	AV	5.633G	95.51	Inf	-Inf	3	Horizontal	196	1.38	-
5610MHz	Pass	PK	5.461G	58.40	68.20	-9.80	3	Horizontal	196	1.38	-
5610MHz	Pass	PK	5.619G	102.97	Inf	-Inf	3	Horizontal	196	1.38	-
5610MHz	Pass	PK	5.73G	62.11	68.20	-6.09	3	Horizontal	196	1.38	-
5610MHz	Pass	AV	11.2206G	44.70	54.00	-9.30	3	Vertical	73	1.50	-
5610MHz	Pass	PK	11.2208G	56.71	74.00	-17.29	3	Vertical	73	1.50	-
5610MHz	Pass	PK	16.801G	58.94	68.20	-9.26	3	Vertical	168	1.50	-
5610MHz	Pass	AV	11.22G	41.50	54.00	-12.50	3	Horizontal	269	1.50	-
5610MHz	Pass	PK	11.2449G	54.70	74.00	-19.30	3	Horizontal	269	1.50	-
5610MHz	Pass	PK	16.7892G	59.31	68.20	-8.89	3	Horizontal	249	1.44	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4584G	47.89	54.00	-6.11	3	Vertical	31	1.25	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.6984G	104.77	Inf	-Inf	3	Vertical	31	1.25	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	59.86	68.20	-8.34	3	Vertical	31	1.25	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.7284G	115.47	Inf	-Inf	3	Vertical	31	1.25	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8688G	67.48	68.20	-0.72	3	Vertical	31	1.25	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4572G	45.91	54.00	-8.09	3	Horizontal	197	1.34	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.7128G	97.61	Inf	-Inf	3	Horizontal	197	1.34	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4668G	58.02	68.20	-10.18	3	Horizontal	197	1.34	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6636G	105.37	Inf	-Inf	3	Horizontal	197	1.34	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8616G	61.94	68.20	-6.26	3	Horizontal	197	1.34	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.3825G	44.42	54.00	-9.58	3	Vertical	93	1.43	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.3781G	56.10	74.00	-17.90	3	Vertical	93	1.43	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.0938G	61.48	68.20	-6.72	3	Vertical	113	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.38G	41.51	54.00	-12.49	3	Horizontal	304	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.3843G	54.35	74.00	-19.65	3	Horizontal	304	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	17.0711G	61.68	68.20	-6.52	3	Horizontal	349	1.30	-
802.11ac VHT160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	AV	5.15G	53.60	54.00	-0.40	3	Vertical	276	1.53	-
5250MHz	Pass	AV	5.2872G	97.35	Inf	-Inf	3	Vertical	276	1.53	-
5250MHz	Pass	AV	5.4264G	53.96	54.00	-0.04	3	Vertical	276	1.53	-
5250MHz	Pass	PK	5.1444G	65.78	74.00	-8.22	3	Vertical	276	1.53	-
5250MHz	Pass	PK	5.2944G	105.94	Inf	-Inf	3	Vertical	276	1.53	-
5250MHz	Pass	PK	5.46G	63.28	68.20	-4.92	3	Vertical	276	1.53	-
5250MHz	Pass	AV	5.1432G	48.40	54.00	-5.60	3	Horizontal	184	1.50	-
5250MHz	Pass	AV	5.2332G	89.49	Inf	-Inf	3	Horizontal	184	1.50	-
5250MHz	Pass	AV	5.4264G	48.56	54.00	-5.44	3	Horizontal	184	1.50	-
5250MHz	Pass	PK	5.15G	61.18	74.00	-12.82	3	Horizontal	184	1.50	-
5250MHz	Pass	PK	5.2332G	99.84	Inf	-Inf	3	Horizontal	184	1.50	-

Remark :

Page No. : D12 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5250MHz	Pass	PK	5.4924G	58.96	68.20	-9.24	3	Horizontal	184	1.50	-
5250MHz	Pass	AV	15.74658G	44.04	54.00	-9.96	3	Vertical	161	1.00	-
5250MHz	Pass	PK	10.48668G	56.93	68.20	-11.27	3	Vertical	81	1.50	-
5250MHz	Pass	PK	15.75192G	57.63	74.00	-16.37	3	Vertical	161	1.00	-
5250MHz	Pass	AV	15.73584G	44.10	54.00	-9.90	3	Horizontal	318	2.46	-
5250MHz	Pass	PK	10.50606G	54.20	68.20	-14.00	3	Horizontal	48	1.97	-
5250MHz	Pass	PK	15.74904G	57.67	74.00	-16.33	3	Horizontal	318	2.46	-
5570MHz	Pass	AV	5.4536G	53.38	54.00	-0.62	3	Vertical	29	1.40	-
5570MHz	Pass	AV	5.6132G	97.14	Inf	-Inf	3	Vertical	29	1.40	-
5570MHz	Pass	PK	5.4632G	67.30	68.20	-0.90	3	Vertical	29	1.40	-
5570MHz	Pass	PK	5.5808G	105.86	Inf	-Inf	3	Vertical	29	1.40	-
5570MHz	Pass	PK	5.7608G	65.87	68.20	-2.33	3	Vertical	29	1.40	-
5570MHz	Pass	AV	5.4584G	48.82	54.00	-5.18	3	Horizontal	193	1.50	-
5570MHz	Pass	AV	5.5532G	89.49	Inf	-Inf	3	Horizontal	193	1.50	-
5570MHz	Pass	PK	5.4668G	60.80	68.20	-7.40	3	Horizontal	193	1.50	-
5570MHz	Pass	PK	5.5556G	98.97	Inf	-Inf	3	Horizontal	193	1.50	-
5570MHz	Pass	PK	5.7296G	62.15	68.20	-6.05	3	Horizontal	193	1.50	-
5570MHz	Pass	AV	11.15176G	41.48	54.00	-12.52	3	Vertical	251	1.50	-
5570MHz	Pass	PK	11.13664G	55.15	74.00	-18.85	3	Vertical	251	1.50	-
5570MHz	Pass	PK	16.70118G	60.44	68.20	-7.76	3	Vertical	0	1.50	-
5570MHz	Pass	AV	11.13988G	41.47	54.00	-12.53	3	Horizontal	277	1.62	-
5570MHz	Pass	PK	11.1466G	54.79	74.00	-19.21	3	Horizontal	277	1.62	-
5570MHz	Pass	PK	16.71954G	60.38	68.20	-7.82	3	Horizontal	218	1.50	-
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	AV	5.118G	53.81	54.00	-0.19	3	Vertical	8	1.59	-
5250MHz	Pass	AV	5.2308G	94.98	Inf	-Inf	3	Vertical	8	1.59	-
5250MHz	Pass	AV	5.3532G	51.51	54.00	-2.49	3	Vertical	8	1.59	-
5250MHz	Pass	PK	5.112G	68.00	74.00	-6.00	3	Vertical	8	1.59	-
5250MHz	Pass	PK	5.28G	107.11	Inf	-Inf	3	Vertical	8	1.59	-
5250MHz	Pass	PK	5.4732G	62.63	68.20	-5.57	3	Vertical	8	1.59	-
5250MHz	Pass	AV	5.0928G	49.16	54.00	-4.84	3	Horizontal	150	1.50	-
5250MHz	Pass	AV	5.2524G	89.41	Inf	-Inf	3	Horizontal	150	1.50	-
5250MHz	Pass	AV	5.4228G	48.94	54.00	-5.06	3	Horizontal	150	1.50	-
5250MHz	Pass	PK	5.1396G	62.71	74.00	-11.29	3	Horizontal	150	1.50	-
5250MHz	Pass	PK	5.2464G	102.45	Inf	-Inf	3	Horizontal	150	1.50	-
5250MHz	Pass	PK	5.478G	60.30	68.20	-7.90	3	Horizontal	150	1.50	-
5250MHz	Pass	AV	15.7479G	44.64	54.00	-9.36	3	Vertical	199	1.50	-
5250MHz	Pass	PK	10.48812G	55.16	68.20	-13.04	3	Vertical	265	2.93	-
5250MHz	Pass	PK	15.73614G	58.80	74.00	-15.20	3	Vertical	199	1.50	-
5250MHz	Pass	AV	15.73566G	44.72	54.00	-9.28	3	Horizontal	188	1.50	-
5250MHz	Pass	PK	10.48968G	55.97	68.20	-12.23	3	Horizontal	162	1.45	-
5250MHz	Pass	PK	15.73788G	58.22	74.00	-15.78	3	Horizontal	188	1.50	-
5570MHz	Pass	AV	5.4584G	53.43	54.00	-0.57	3	Vertical	30	1.50	-
5570MHz	Pass	AV	5.5736G	94.69	Inf	-Inf	3	Vertical	30	1.50	-
5570MHz	Pass	PK	5.462G	66.55	68.20	-1.65	3	Vertical	30	1.50	-
5570MHz	Pass	PK	5.618G	107.32	Inf	-Inf	3	Vertical	30	1.50	-
5570MHz	Pass	PK	5.75G	67.11	68.20	-1.09	3	Vertical	30	1.50	-
5570MHz	Pass	AV	5.4584G	50.12	54.00	-3.88	3	Horizontal	151	1.50	-
5570MHz	Pass	AV	5.5736G	88.46	Inf	-Inf	3	Horizontal	151	1.50	-

Remark :

Page No. : D13 of D166

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01



RSE TX above 1GHz_Non-Beamforming (4T4S)

Appendix D.3

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5570MHz	Pass	PK	5.4632G	61.95	68.20	-6.25	3	Horizontal	151	1.50	-
5570MHz	Pass	PK	5.528G	101.23	Inf	-Inf	3	Horizontal	151	1.50	-
5570MHz	Pass	PK	5.7716G	62.65	68.20	-5.55	3	Horizontal	151	1.50	-
5570MHz	Pass	AV	11.14006G	43.72	54.00	-10.28	3	Vertical	279	1.65	-
5570MHz	Pass	PK	11.13982G	56.27	74.00	-17.73	3	Vertical	279	1.65	-
5570MHz	Pass	PK	16.71402G	60.61	68.20	-7.59	3	Vertical	315	2.36	-
5570MHz	Pass	AV	11.14006G	45.28	54.00	-8.72	3	Horizontal	294	1.56	-
5570MHz	Pass	PK	11.14018G	57.54	74.00	-16.46	3	Horizontal	294	1.56	-
5570MHz	Pass	PK	16.585G	60.95	68.20	-7.25	3	Horizontal	5	1.94	-

Remark :

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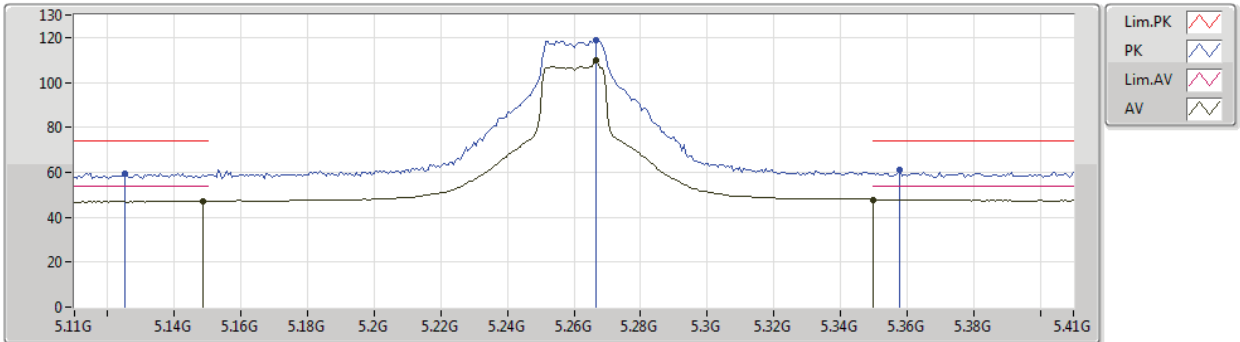
Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

992407-01

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5260MHz_TX

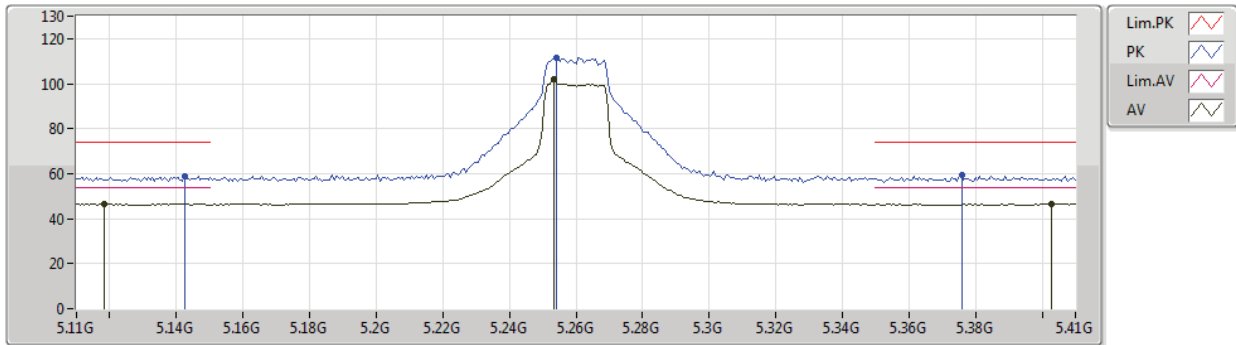


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1484G	47.19	54.00	-6.81	8.37	3	Vertical	271	1.71	-	38.82	31.70	6.00	29.33
AV	5.2666G	109.68	Inf	-Inf	8.11	3	Vertical	271	1.71	-	101.57	31.40	6.06	29.35
AV	5.35G	47.84	54.00	-6.16	8.15	3	Vertical	271	1.71	-	39.69	31.40	6.11	29.36
PK	5.125G	59.67	74.00	-14.33	8.41	3	Vertical	271	1.71	-	51.26	31.75	5.99	29.33
PK	5.2666G	118.82	Inf	-Inf	8.11	3	Vertical	271	1.71	-	110.71	31.40	6.06	29.35
PK	5.3578G	60.99	74.00	-13.01	8.17	3	Vertical	271	1.71	-	52.82	31.42	6.11	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5260MHz_TX

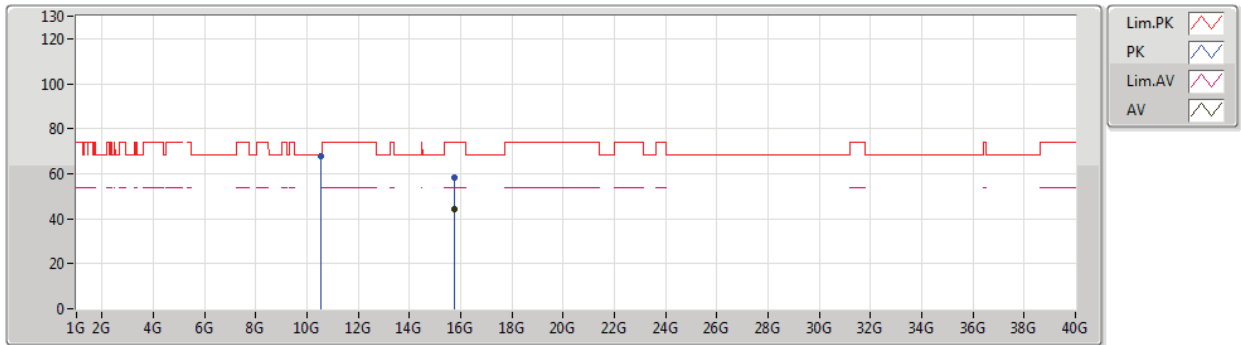


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1184G	46.40	54.00	-7.60	8.41	3	Horizontal	177	1.74	-	37.99	31.76	5.98	29.33
AV	5.2534G	102.18	Inf	-Inf	8.15	3	Horizontal	177	1.74	-	94.03	31.44	6.06	29.35
AV	5.4028G	46.41	54.00	-7.59	8.29	3	Horizontal	177	1.74	-	38.12	31.51	6.14	29.36
PK	5.1424G	58.70	74.00	-15.30	8.39	3	Horizontal	177	1.74	-	50.31	31.72	6.00	29.33
PK	5.254G	111.58	Inf	-Inf	8.15	3	Horizontal	177	1.74	-	103.43	31.44	6.06	29.35
PK	5.3758G	59.64	74.00	-14.36	8.21	3	Horizontal	177	1.74	-	51.43	31.45	6.12	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

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5260MHz_TX

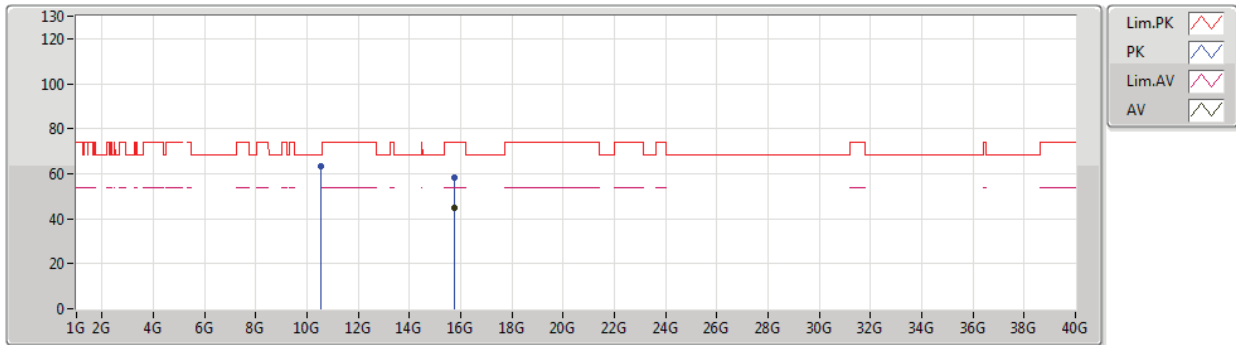


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	10.52288G	67.62	68.20	-0.58	17.79	3	Vertical	91	1.49	-	49.83	39.58	8.81	30.60
PK	15.7695G	58.06	74.00	-15.94	16.58	3	Vertical	324	1.50	-	41.48	37.59	10.90	31.91
AV	15.76518G	44.45	54.00	-9.55	16.60	3	Vertical	324	1.50	-	27.85	37.61	10.90	31.91

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5260MHz_TX

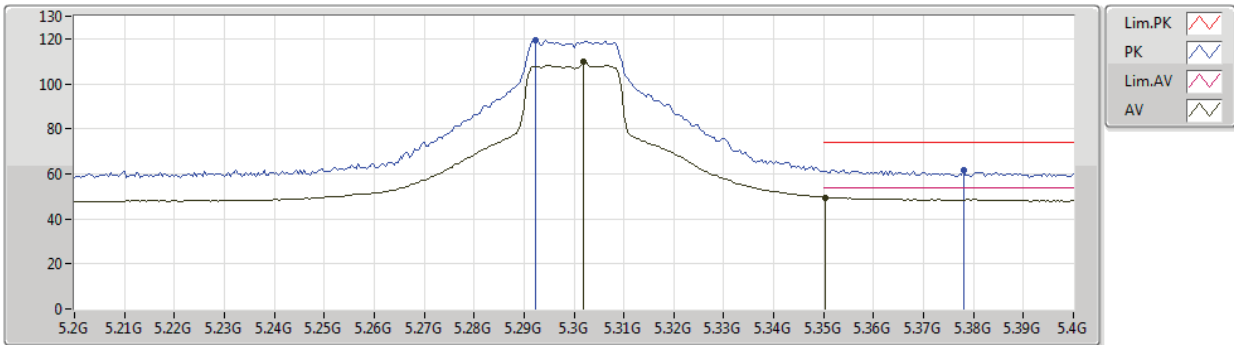


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.76668G	44.55	54.00	-9.45	16.59	3	Horizontal	316	1.50	-	27.96	37.60	10.90	31.91
PK	10.52042G	63.45	68.20	-4.75	17.79	3	Horizontal	291	2.09	-	45.66	39.58	8.80	30.59
PK	15.7653G	58.06	74.00	-15.94	16.60	3	Horizontal	316	1.50	-	41.46	37.61	10.90	31.91

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5300MHz_TX

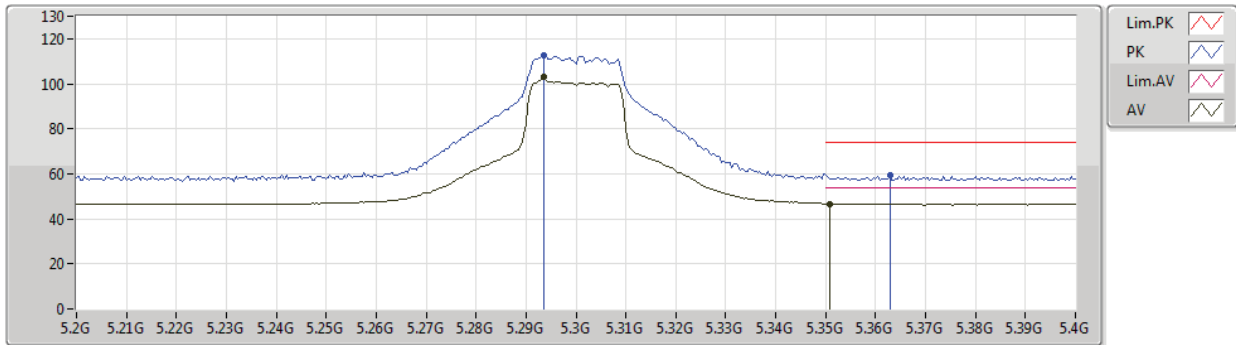


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.302G	109.88	Inf	-Inf	8.03	3	Vertical	281	1.59	-	101.85	31.30	6.08	29.35
AV	5.3504G	49.57	54.00	-4.43	8.15	3	Vertical	281	1.59	-	41.42	31.40	6.11	29.36
PK	5.2924G	119.51	Inf	-Inf	8.05	3	Vertical	281	1.59	-	111.46	31.32	6.08	29.35
PK	5.378G	61.75	74.00	-12.25	8.22	3	Vertical	281	1.59	-	53.53	31.46	6.12	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5300MHz_TX

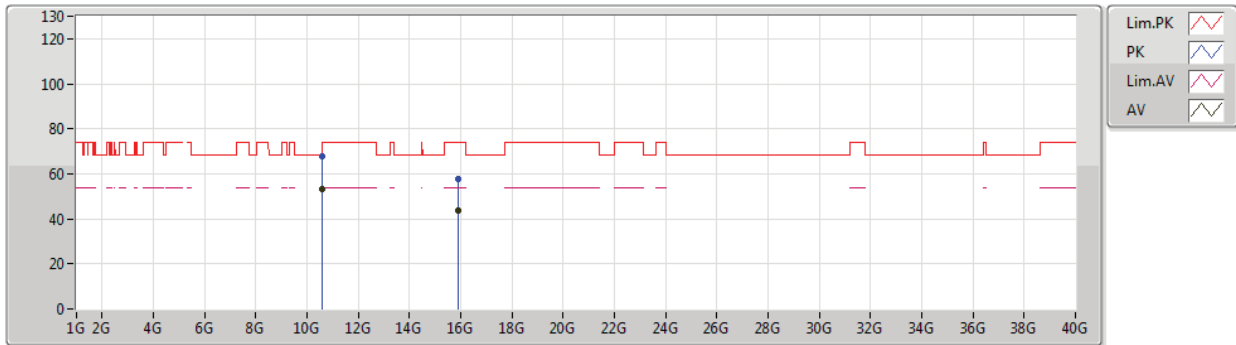


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.2936G	103.27	Inf	-Inf	8.05	3	Horizontal	177	1.67	-	95.22	31.32	6.08	29.35
AV	5.3508G	46.71	54.00	-7.29	8.15	3	Horizontal	177	1.67	-	38.56	31.40	6.11	29.36
PK	5.2936G	112.78	Inf	-Inf	8.05	3	Horizontal	177	1.67	-	104.73	31.32	6.08	29.35
PK	5.3628G	59.24	74.00	-14.76	8.19	3	Horizontal	177	1.67	-	51.05	31.43	6.12	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5300MHz_TX

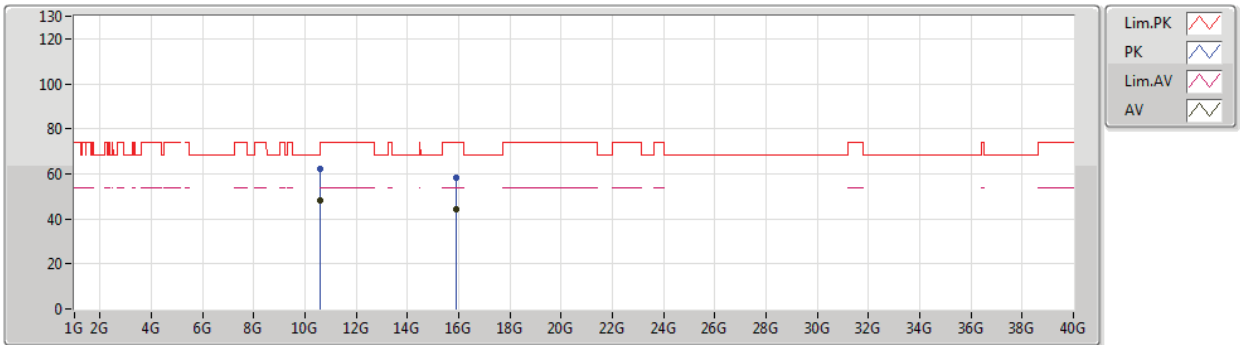


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.60117G	53.49	54.00	-0.51	17.89	3	Vertical	331	1.85	-	35.60	39.68	8.86	30.65
AV	15.88962G	43.84	54.00	-10.16	16.08	3	Vertical	139	1.50	-	27.76	37.07	10.95	31.94
PK	10.60206G	67.76	74.00	-6.24	17.89	3	Vertical	331	1.85	-	49.87	39.68	8.86	30.65
PK	15.90414G	57.95	74.00	-16.05	16.02	3	Vertical	139	1.50	-	41.93	37.01	10.95	31.94

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5300MHz_TX

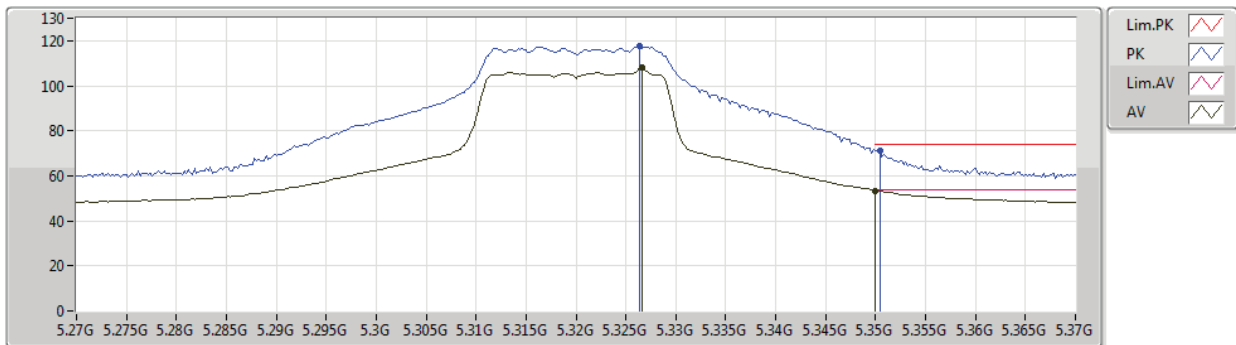


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.60047G	48.11	54.00	-5.89	17.89	3	Horizontal	175	1.56	-	30.22	39.68	8.86	30.65
AV	15.90072G	44.34	54.00	-9.66	16.04	3	Horizontal	287	2.64	-	28.30	37.03	10.95	31.94
PK	10.60034G	62.00	74.00	-12.00	17.89	3	Horizontal	175	1.56	-	44.11	39.68	8.86	30.65
PK	15.88584G	58.04	74.00	-15.96	16.11	3	Horizontal	287	2.64	-	41.93	37.09	10.95	31.93

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5320MHz_TX

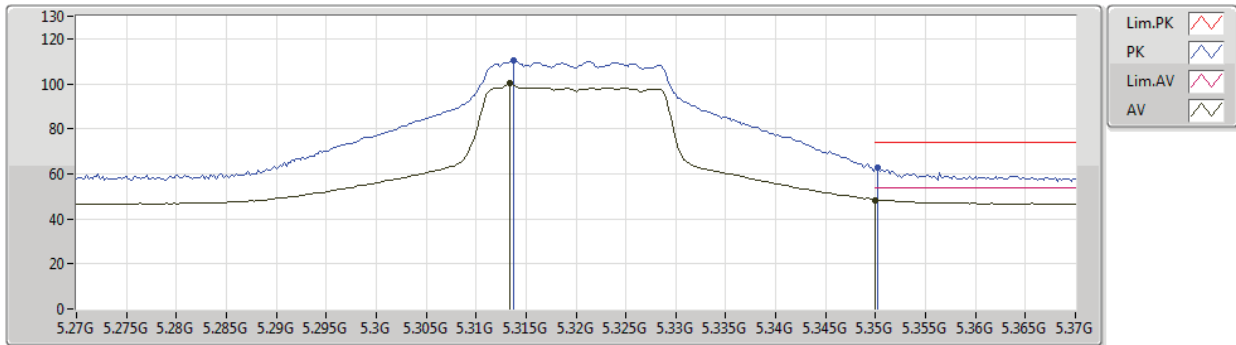


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3266G	108.12	Inf	-Inf	8.10	3	Vertical	271	1.69	-	100.02	31.35	6.10	29.35
AV	5.35G	53.31	54.00	-0.69	8.15	3	Vertical	271	1.69	-	45.16	31.40	6.11	29.36
PK	5.3264G	117.59	Inf	-Inf	8.10	3	Vertical	271	1.69	-	109.49	31.35	6.10	29.35
PK	5.3504G	71.04	74.00	-2.96	8.15	3	Vertical	271	1.69	-	62.89	31.40	6.11	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5320MHz_TX

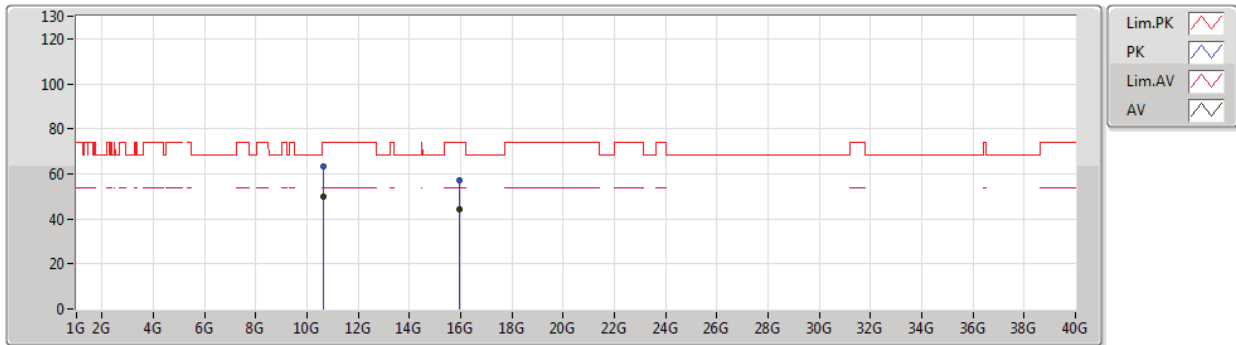


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3134G	100.15	Inf	-Inf	8.07	3	Horizontal	176	1.47	-	92.08	31.33	6.09	29.35
AV	5.35G	48.46	54.00	-5.54	8.15	3	Horizontal	176	1.47	-	40.31	31.40	6.11	29.36
PK	5.3138G	110.29	Inf	-Inf	8.07	3	Horizontal	176	1.47	-	102.22	31.33	6.09	29.35
PK	5.3502G	62.77	74.00	-11.23	8.15	3	Horizontal	176	1.47	-	54.62	31.40	6.11	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5320MHz_TX

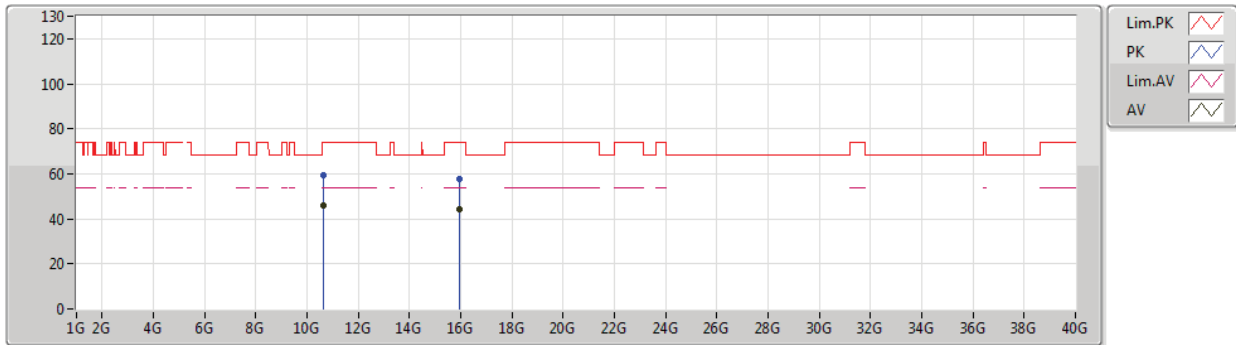


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.63874G	49.93	54.00	-4.07	17.94	3	Vertical	178	1.89	-	31.99	39.73	8.88	30.67
AV	15.96858G	44.06	54.00	-9.94	15.77	3	Vertical	49	1.50	-	28.29	36.74	10.98	31.95
PK	10.63886G	63.04	74.00	-10.96	17.94	3	Vertical	178	1.89	-	45.10	39.73	8.88	30.67
PK	15.96822G	57.33	74.00	-16.67	15.77	3	Vertical	49	1.50	-	41.56	36.74	10.98	31.95

802.11ac VHT20_Nss4,(MCS0)_4TX

27/12/2019

5320MHz_TX

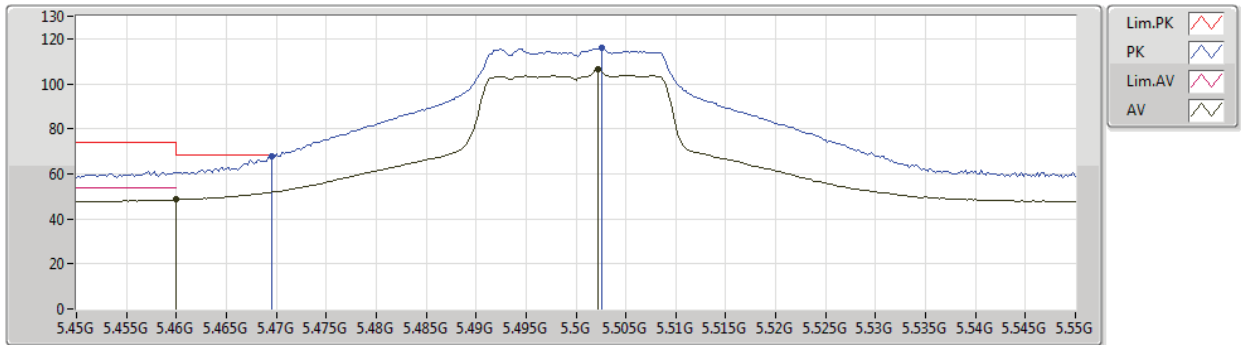


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.63958G	45.84	54.00	-8.16	17.94	3	Horizontal	174	1.50	-	27.90	39.73	8.88	30.67
AV	15.9738G	44.40	54.00	-9.60	15.74	3	Horizontal	297	2.27	-	28.66	36.71	10.98	31.95
PK	10.64192G	59.54	74.00	-14.46	17.94	3	Horizontal	174	1.50	-	41.60	39.73	8.89	30.68
PK	15.97176G	57.83	74.00	-16.17	15.75	3	Horizontal	297	2.27	-	42.08	36.72	10.98	31.95

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5500MHz_TX

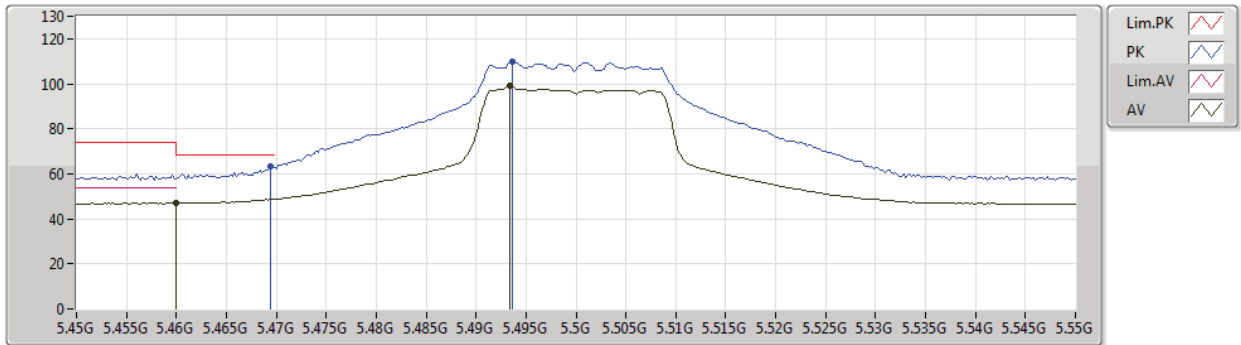


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	48.53	54.00	-5.47	8.54	3	Vertical	280	1.42	-	39.99	31.74	6.17	29.37
AV	5.5022G	106.61	Inf	-Inf	8.72	3	Vertical	280	1.42	-	97.89	31.90	6.19	29.37
PK	5.4696G	67.57	68.20	-0.63	8.58	3	Vertical	280	1.42	-	58.99	31.78	6.17	29.37
PK	5.5026G	116.10	Inf	-Inf	8.71	3	Vertical	280	1.42	-	107.39	31.89	6.19	29.37

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5500MHz_TX

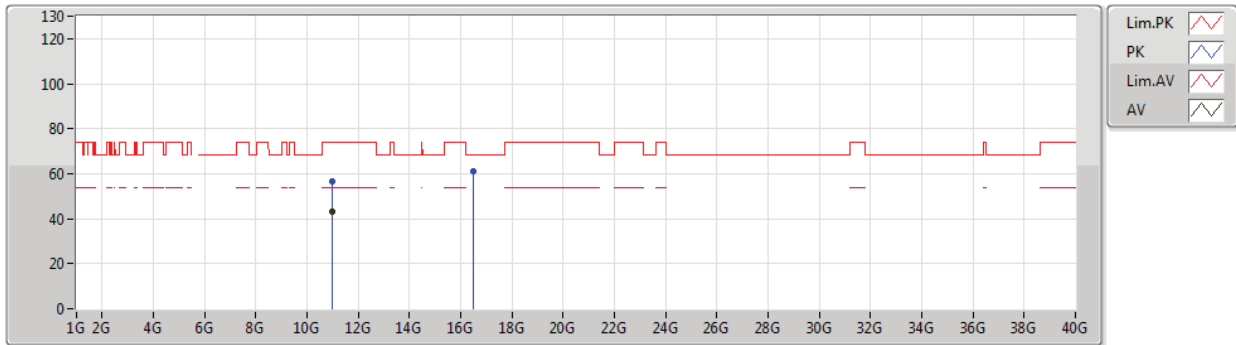


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	47.05	54.00	-6.95	8.54	3	Horizontal	147	1.60	-	38.51	31.74	6.17	29.37
AV	5.4934G	99.44	Inf	-Inf	8.69	3	Horizontal	147	1.60	-	90.75	31.87	6.19	29.37
PK	5.4694G	63.48	68.20	-4.72	8.58	3	Horizontal	147	1.60	-	54.90	31.78	6.17	29.37
PK	5.4936G	109.82	Inf	-Inf	8.69	3	Horizontal	147	1.60	-	101.13	31.87	6.19	29.37

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5500MHz_TX

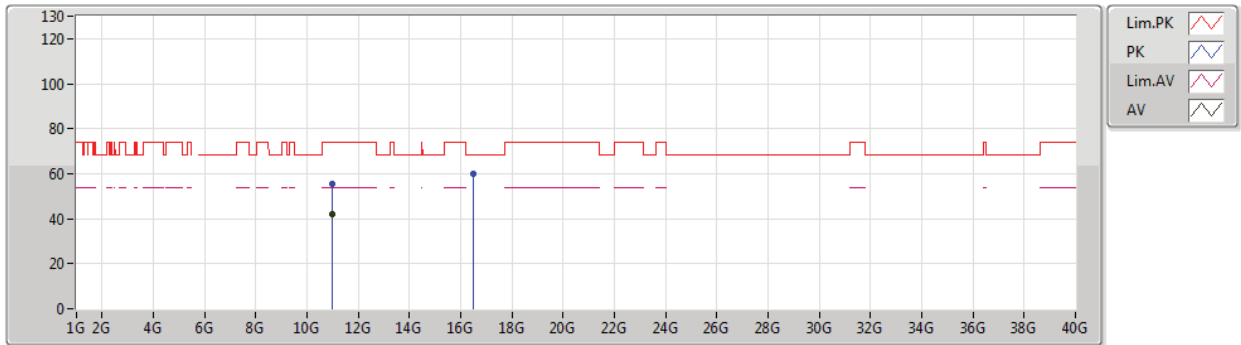


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.9991G	43.04	54.00	-10.96	18.41	3	Vertical	76	1.50	-	24.63	40.20	9.13	30.92
PK	10.9982G	56.57	74.00	-17.43	18.41	3	Vertical	76	1.50	-	38.16	40.20	9.13	30.92
PK	16.50534G	60.85	68.20	-7.35	17.84	3	Vertical	298	1.50	-	43.01	38.37	11.16	31.69

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5500MHz_TX

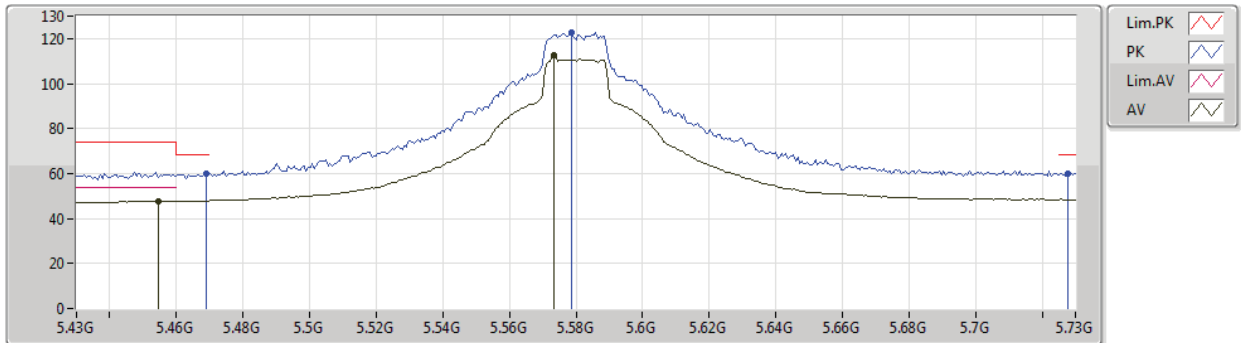


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.99868G	42.17	54.00	-11.83	18.41	3	Horizontal	288	1.50	-	23.76	40.20	9.13	30.92
PK	10.99472G	55.41	74.00	-18.59	18.40	3	Horizontal	288	1.50	-	37.01	40.19	9.13	30.92
PK	16.4919G	60.12	68.20	-8.08	17.78	3	Horizontal	209	1.50	-	42.34	38.32	11.15	31.69

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5580MHz_TX

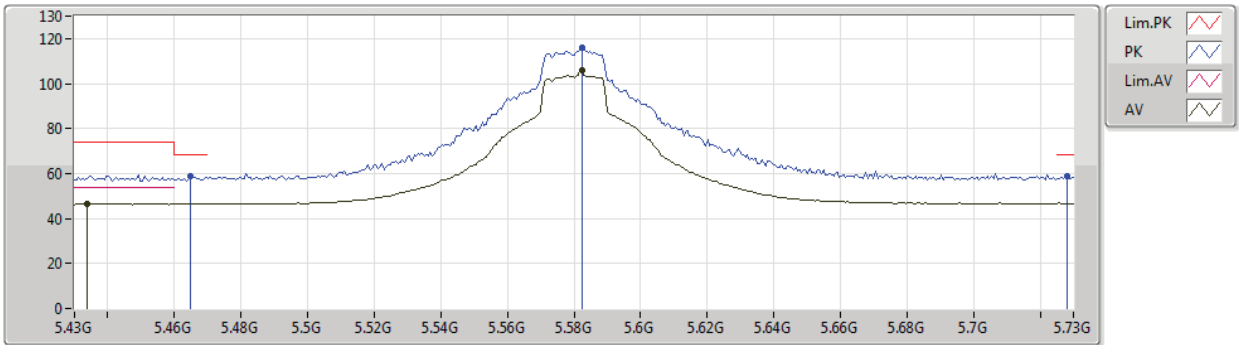


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4546G	47.86	54.00	-6.14	8.52	3	Vertical	26	1.40	-	39.34	31.72	6.17	29.37
AV	5.5734G	112.85	Inf	-Inf	8.63	3	Vertical	26	1.40	-	104.22	31.75	6.25	29.37
PK	5.469G	60.06	68.20	-8.14	8.58	3	Vertical	26	1.40	-	51.48	31.78	6.17	29.37
PK	5.5788G	122.56	Inf	-Inf	8.62	3	Vertical	26	1.40	-	113.94	31.74	6.25	29.37
PK	5.7276G	60.18	68.20	-8.02	8.87	3	Vertical	26	1.40	-	51.31	31.86	6.37	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5580MHz_TX

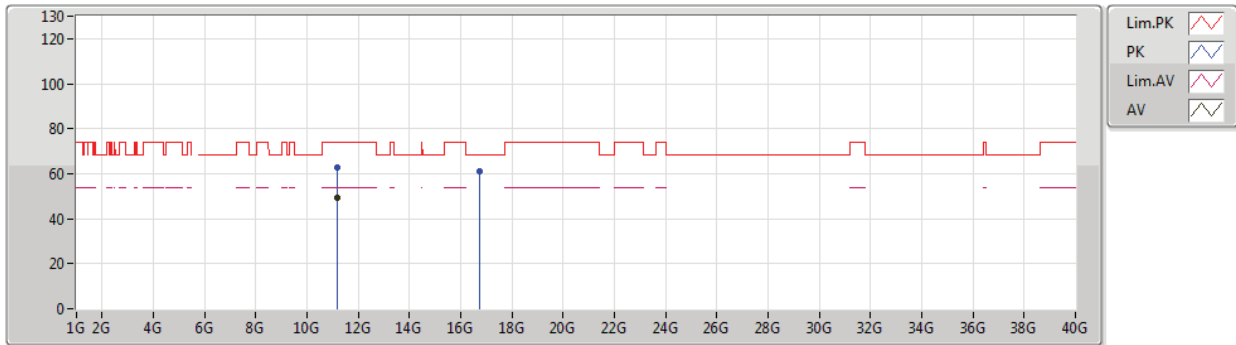


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4336G	46.46	54.00	-7.54	8.42	3	Horizontal	15	1.56	-	38.04	31.63	6.15	29.36
AV	5.5824G	105.89	Inf	-Inf	8.63	3	Horizontal	15	1.56	-	97.26	31.74	6.26	29.37
PK	5.4648G	58.56	68.20	-9.64	8.56	3	Horizontal	15	1.56	-	50.00	31.76	6.17	29.37
PK	5.5824G	116.16	Inf	-Inf	8.63	3	Horizontal	15	1.56	-	107.53	31.74	6.26	29.37
PK	5.7282G	58.83	68.20	-9.37	8.87	3	Horizontal	15	1.56	-	49.96	31.86	6.37	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5580MHz_TX

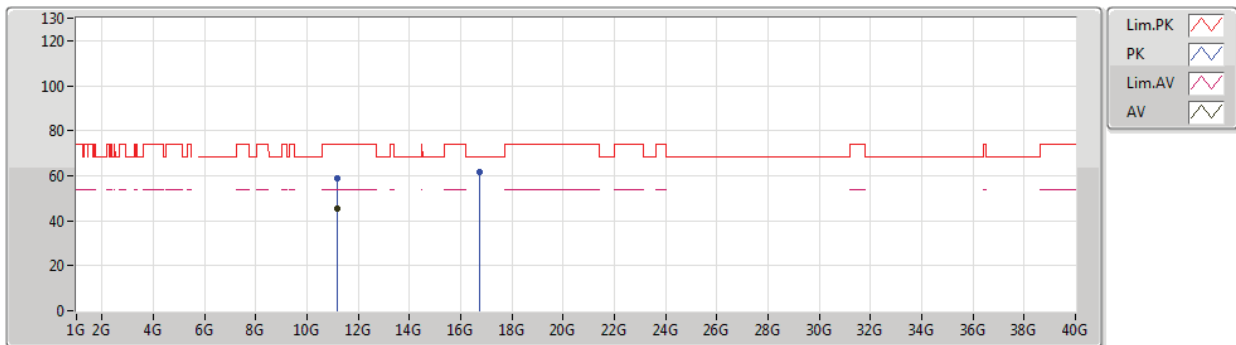


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.15964G	49.23	54.00	-4.77	18.33	3	Vertical	77	1.45	-	30.90	39.96	9.24	30.87
PK	11.16198G	62.99	74.00	-11.01	18.33	3	Vertical	77	1.45	-	44.66	39.96	9.24	30.87
PK	16.73604G	61.20	68.20	-7.00	18.72	3	Vertical	125	1.50	-	42.48	39.18	11.23	31.69

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5580MHz_TX

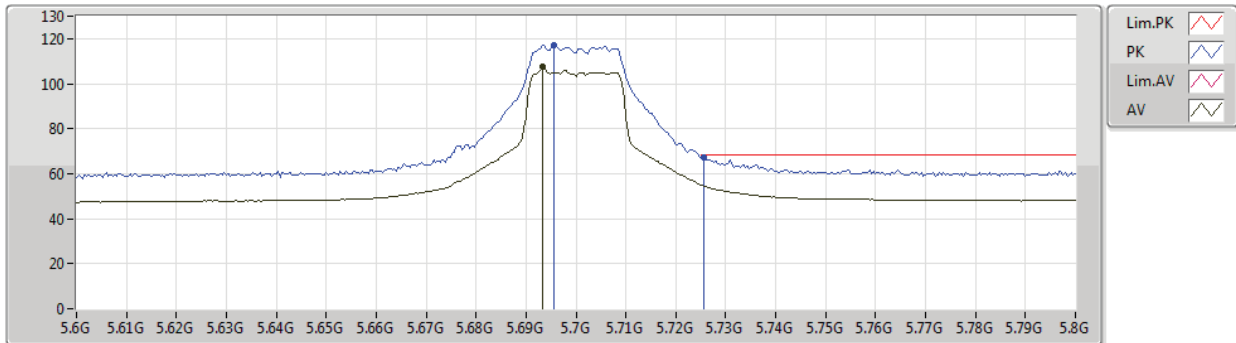


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.15976G	45.43	54.00	-8.57	18.33	3	Horizontal	273	1.54	-	27.10	39.96	9.24	30.87
PK	11.16672G	58.83	74.00	-15.17	18.33	3	Horizontal	273	1.54	-	40.50	39.95	9.25	30.87
PK	16.74672G	61.37	68.20	-6.83	18.76	3	Horizontal	47	1.50	-	42.61	39.21	11.24	31.69

802.11ac VHT20_Nss4,(MCS0)_4TX

31/01/2020

5700MHz_TX

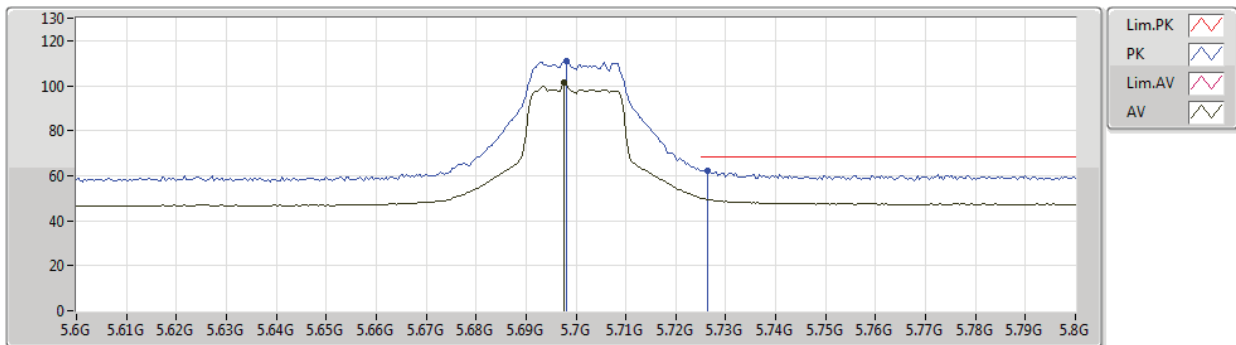


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6932G	107.80	Inf	-Inf	8.77	3	Vertical	29	1.43	-	99.03	31.79	6.34	29.36
PK	5.6956G	117.02	Inf	-Inf	8.79	3	Vertical	29	1.43	-	108.23	31.80	6.35	29.36
PK	5.7256G	67.29	68.20	-0.91	8.86	3	Vertical	29	1.43	-	58.43	31.85	6.37	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

31/01/2020

5700MHz_TX

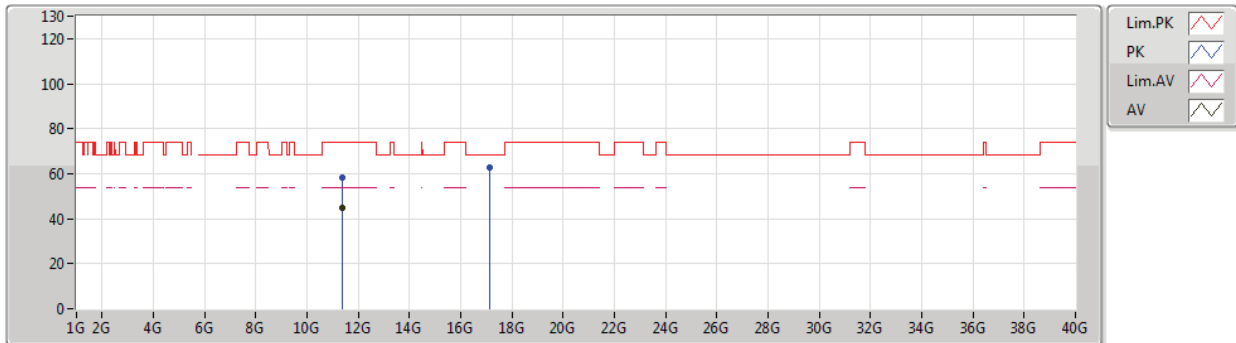


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6976G	101.28	Inf	-Inf	8.79	3	Horizontal	191	1.39	-	92.49	31.80	6.35	29.36
PK	5.698G	110.77	Inf	-Inf	8.79	3	Horizontal	191	1.39	-	101.98	31.80	6.35	29.36
PK	5.7264G	62.35	68.20	-5.85	8.86	3	Horizontal	191	1.39	-	53.49	31.85	6.37	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

31/01/2020

5700MHz_TX

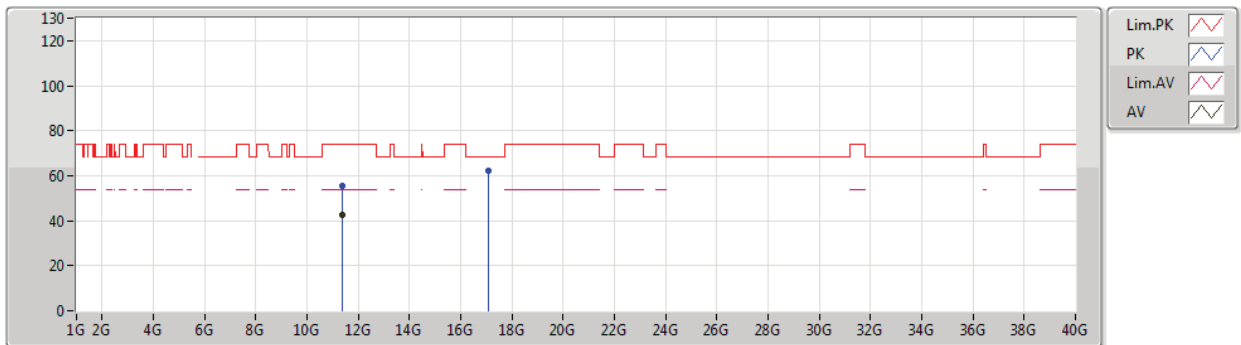


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.39964G	44.98	54.00	-9.02	18.21	3	Vertical	18	1.45	-	26.77	39.60	9.41	30.80
PK	11.40072G	58.39	74.00	-15.61	18.21	3	Vertical	18	1.45	-	40.18	39.60	9.41	30.80
PK	17.10882G	62.89	68.20	-5.31	20.54	3	Vertical	212	2.40	-	42.35	40.82	11.36	31.64

802.11ac VHT20_Nss4,(MCS0)_4TX

31/01/2020

5700MHz_TX

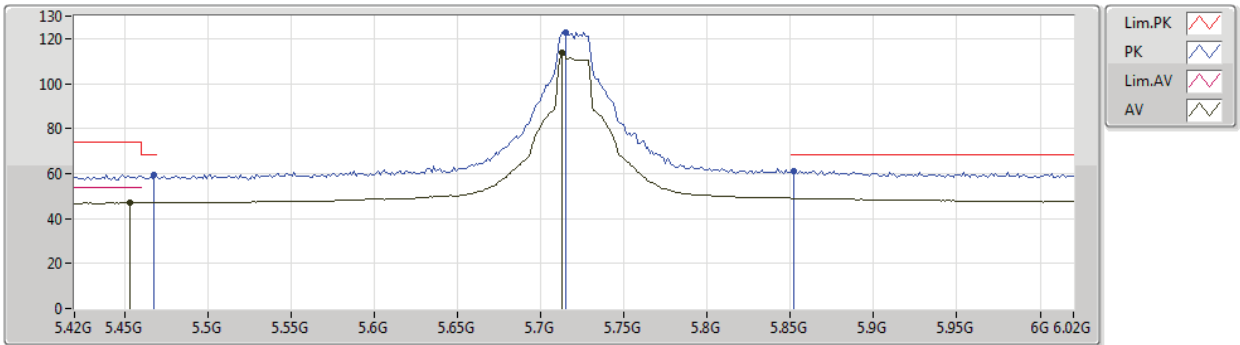


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.39988G	42.61	54.00	-11.39	18.21	3	Horizontal	299	1.00	-	24.40	39.60	9.41	30.80
PK	11.38578G	55.58	74.00	-18.42	18.22	3	Horizontal	299	1.00	-	37.36	39.62	9.40	30.80
PK	17.0973G	62.45	68.20	-5.75	20.45	3	Horizontal	253	1.50	-	42.00	40.74	11.35	31.64

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5720MHz Straddle 5.47-5.725GHz_TX

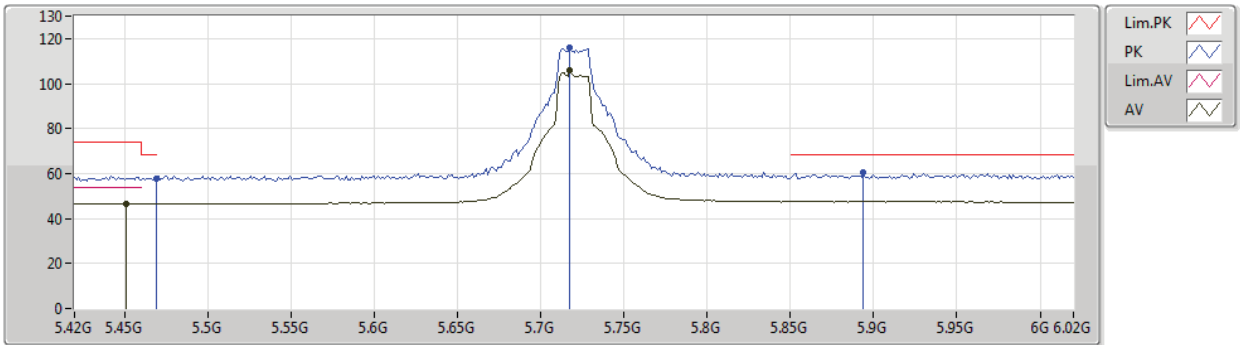


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4536G	47.04	54.00	-6.96	8.50	3	Vertical	26	1.32	-	38.54	31.71	6.16	29.37
AV	5.7128G	113.92	Inf	-Inf	8.83	3	Vertical	26	1.32	-	105.09	31.83	6.36	29.36
PK	5.468G	59.23	68.20	-8.97	8.57	3	Vertical	26	1.32	-	50.66	31.77	6.17	29.37
PK	5.7152G	122.97	Inf	-Inf	8.83	3	Vertical	26	1.32	-	114.14	31.83	6.36	29.36
PK	5.852G	61.27	68.20	-6.93	9.21	3	Vertical	26	1.32	-	52.06	32.10	6.47	29.36

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5720MHz Straddle 5.47-5.725GHz_TX

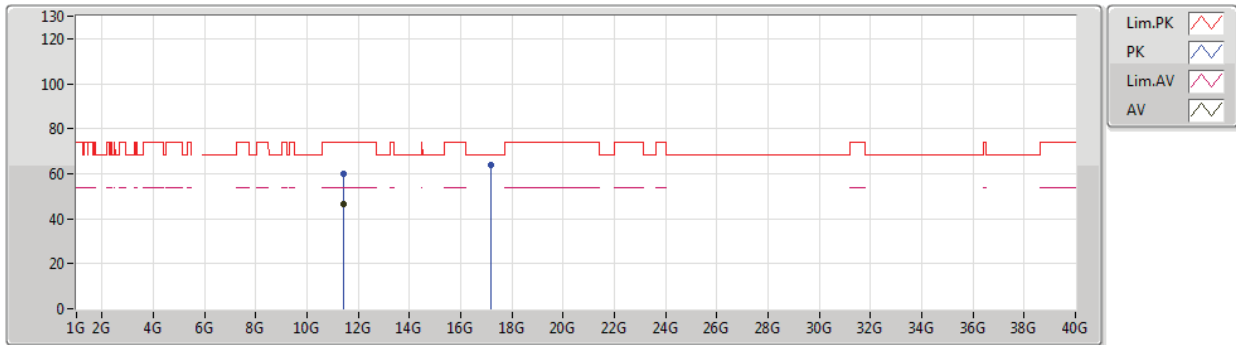


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4512G	46.55	54.00	-7.45	8.49	3	Horizontal	189	1.35	-	38.06	31.70	6.16	29.37
AV	5.7176G	105.82	Inf	-Inf	8.84	3	Horizontal	189	1.35	-	96.98	31.84	6.36	29.36
PK	5.4692G	57.87	68.20	-10.33	8.58	3	Horizontal	189	1.35	-	49.29	31.78	6.17	29.37
PK	5.7176G	116.02	Inf	-Inf	8.84	3	Horizontal	189	1.35	-	107.18	31.84	6.36	29.36
PK	5.894G	60.25	68.20	-7.95	9.35	3	Horizontal	189	1.35	-	50.90	32.19	6.51	29.35

802.11ac VHT20_Nss4,(MCS0)_4TX

28/12/2019

5720MHz Straddle 5.47-5.725GHz_TX

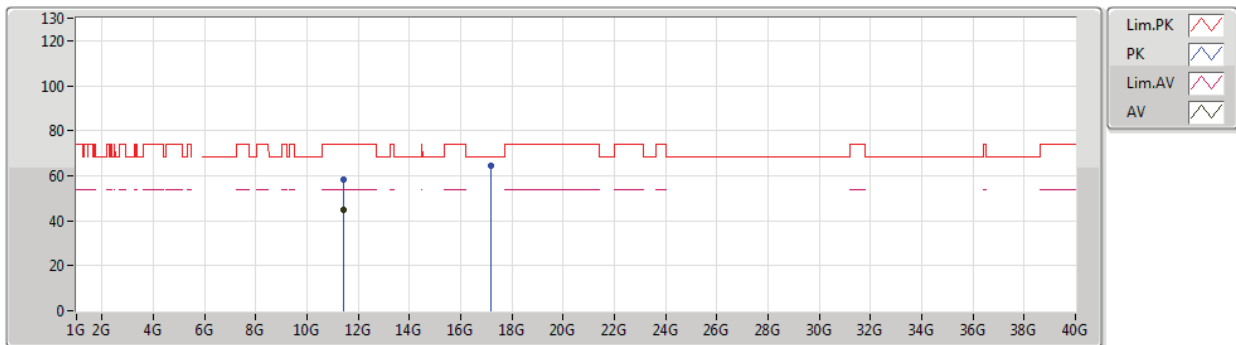


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.43958G	46.45	54.00	-7.55	18.18	3	Vertical	16	1.48	-	28.27	39.54	9.43	30.79
PK	11.44384G	59.75	74.00	-14.25	18.18	3	Vertical	16	1.48	-	41.57	39.53	9.44	30.79
PK	17.16072G	63.63	68.20	-4.57	20.92	3	Vertical	223	2.37	-	42.71	41.16	11.37	31.61

802.11ac VHT20_Nss4,(MCS0)_4TX

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5720MHz Straddle 5.47-5.725GHz_TX

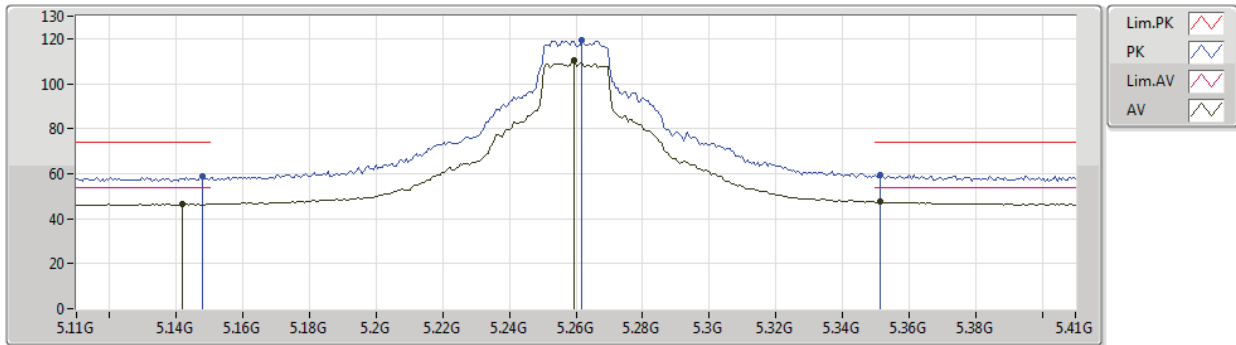


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.43988G	44.59	54.00	-9.41	18.18	3	Horizontal	320	1.71	-	26.41	39.54	9.43	30.79
PK	11.43718G	58.52	74.00	-15.48	18.18	3	Horizontal	320	1.71	-	40.34	39.54	9.43	30.79
PK	17.1621G	64.45	68.20	-3.75	20.93	3	Horizontal	317	2.79	-	43.52	41.17	11.37	31.61

802.11ax HEW20_Nss4,(MCS0)_4TX

17/12/2019

5260MHz_TX

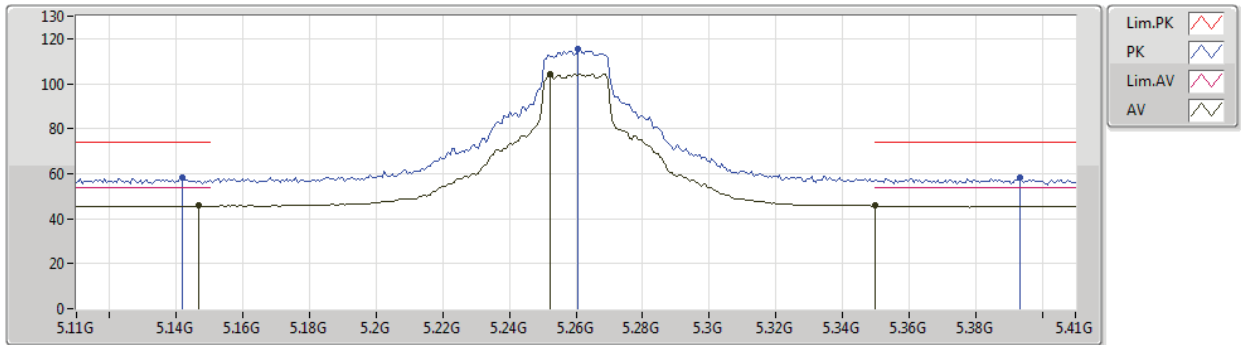


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1418G	46.50	54.00	-7.50	8.39	3	Vertical	275	1.62	-	38.11	31.72	6.00	29.33
AV	5.2594G	110.11	Inf	-Inf	8.13	3	Vertical	275	1.62	-	101.98	31.42	6.06	29.35
AV	5.3512G	47.43	54.00	-6.57	8.15	3	Vertical	275	1.62	-	39.28	31.40	6.11	29.36
PK	5.1478G	58.65	74.00	-15.35	8.37	3	Vertical	275	1.62	-	50.28	31.70	6.00	29.33
PK	5.2618G	119.12	Inf	-Inf	8.12	3	Vertical	275	1.62	-	111.00	31.41	6.06	29.35
PK	5.3512G	59.46	74.00	-14.54	8.15	3	Vertical	275	1.62	-	51.31	31.40	6.11	29.36

802.11ax HEW20_Nss4,(MCS0)_4TX

17/12/2019

5260MHz_TX

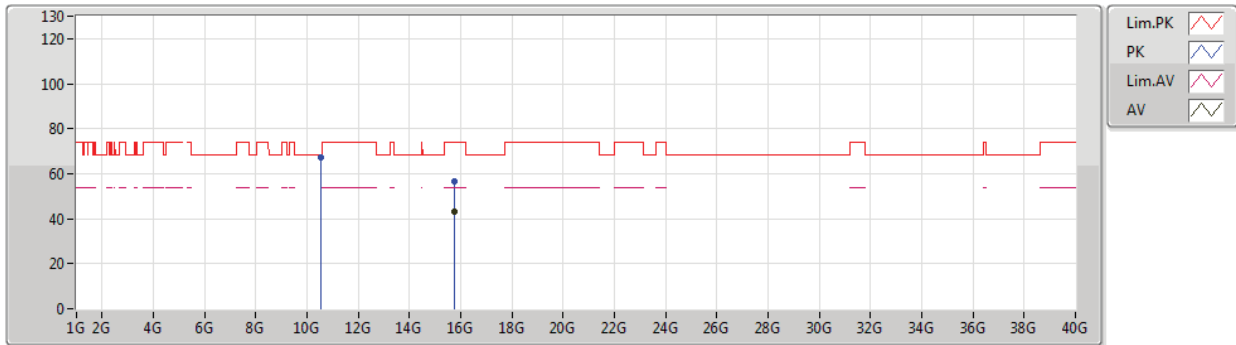


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1466G	45.69	54.00	-8.31	8.38	3	Horizontal	142	1.44	-	37.31	31.71	6.00	29.33
AV	5.2522G	104.44	Inf	-Inf	8.15	3	Horizontal	142	1.44	-	96.29	31.44	6.06	29.35
AV	5.35G	45.68	54.00	-8.32	8.15	3	Horizontal	142	1.44	-	37.53	31.40	6.11	29.36
PK	5.1418G	58.46	74.00	-15.54	8.39	3	Horizontal	142	1.44	-	50.07	31.72	6.00	29.33
PK	5.2606G	115.61	Inf	-Inf	8.13	3	Horizontal	142	1.44	-	107.48	31.42	6.06	29.35
PK	5.3932G	58.00	74.00	-16.00	8.26	3	Horizontal	142	1.44	-	49.74	31.49	6.13	29.36

802.11ax HEW20_Nss4,(MCS0)_4TX

17/12/2019

5260MHz_TX

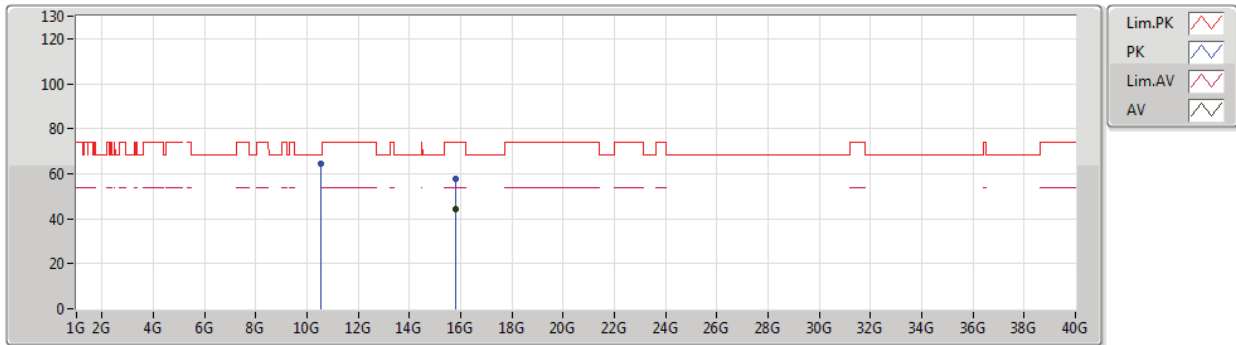


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.76536G	42.99	54.00	-11.01	16.60	3	Vertical	124	2.58	-	26.39	37.61	10.90	31.91
PK	10.52204G	67.45	68.20	-0.75	17.79	3	Vertical	335	1.30	-	49.66	39.58	8.80	30.59
PK	15.76962G	56.55	74.00	-17.45	16.58	3	Vertical	124	2.58	-	39.97	37.59	10.90	31.91

802.11ax HEW20_Nss4,(MCS0)_4TX

17/12/2019

5260MHz_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	15.7881G	44.51	54.00	-9.49	16.51	3	Horizontal	294	1.50	-	28.00	37.51	10.91	31.91
PK	10.52816G	64.24	68.20	-3.96	17.80	3	Horizontal	5	1.47	-	46.44	39.59	8.81	30.60
PK	15.78726G	57.70	74.00	-16.30	16.51	3	Horizontal	294	1.50	-	41.19	37.51	10.91	31.91