

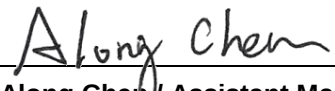
FCC Test Report

FCC ID : 2A8MT-AP6W
Equipment : 802.11ax 2x2 2-Streams Dual Concurrent
Dual radios Wall Plate Access Point
Model No. : AP6W
Brand Name :  ALTA
LABS
Applicant : Alta Networks, LLC
Address : 192 N Old Hwy 91, Unit 1 Hurricane, Utah,
United States 84737
Standard : 47 CFR FCC Part 15.407
Received Date : Mar. 11, 2025
Tested Date : Mar. 12 ~ Mar. 27, 2025

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:


Along Chen / Assistant Manager

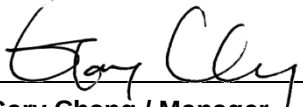

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR1D0803-01AN	Rev. 01	Initial issue	Apr. 25, 2025

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.46MHz 38.03 (Margin -8.64dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5850.00MHz 67.98 (Margin -0.22dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: Non-beamforming mode 5150~5250MHz: 23.02 5250~5350MHz: 21.65 5470~5725MHz: 22.52 5725~5850MHz: 23.07 Beamforming mode 5150~5250MHz: 19.84 5250~5350MHz: 18.64 5470~5725MHz: 19.51 5725~5850MHz: 19.91	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

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

Comments and Explanations:

The 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.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20) ac (VHT20) ax (HE20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2	MCS 0-15 MCS 0-9 MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40) ac (VHT40) ax (HE40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2	MCS 0-15 MCS 0-9 MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80) ax (HE80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	2	MCS 0-9 MCS 0-11
5150-5250 5250-5350 5470-5725	ac (VHT160) ax (HE160)	5250 5570	50 [1] 114 [1]	2	MCS 0-11 MCS 0-11

Note: OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
					2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	Emplus	2.4G-1 7102A0503000	Dipole	UFL	5.4	-	-	-	-
2	Emplus	2.4G-2 7102A0504000	Dipole	UFL	4.0	-	-	-	-
3	Emplus	5G-1 7102A0505000	Dipole	UFL	-	5	6.4	7.2	7.2
4	Emplus	5G-2 7102A0506000	Dipole	UFL	-	5.1	5.3	6.3	6.2

1.1.3 Configuration of Equipment under Test (EUT)

Power Supply Type	12V $\overline{=}$ from AC adapter 54V $\overline{=}$ from POE	
TPC	☒ Support	☐ Not support
Beamforming	☒ Support	☐ Not support
RU Configuration	☒ Full RU	☐ Partial RU
Channel Puncturing	☐ Support	☒ Not support

Note: The above power supply is not bundled in market.

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	802.11ac VHT80 / ax HE80	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	802.11ac VHT160 / ax HE160	
149	5745	50	5250
153	5765	114	5570
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	QSPR, version: 5.0-00201		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	99.23%	0.03
	ax HE20-OFDMA	91.81%	0.37
	ax HE40-OFDMA	83.67%	0.77
	ax HE80-OFDMA	62.49%	2.04
	ax HE160-OFDMA	57.16%	2.43

1.1.7 Power Index of Test Tool

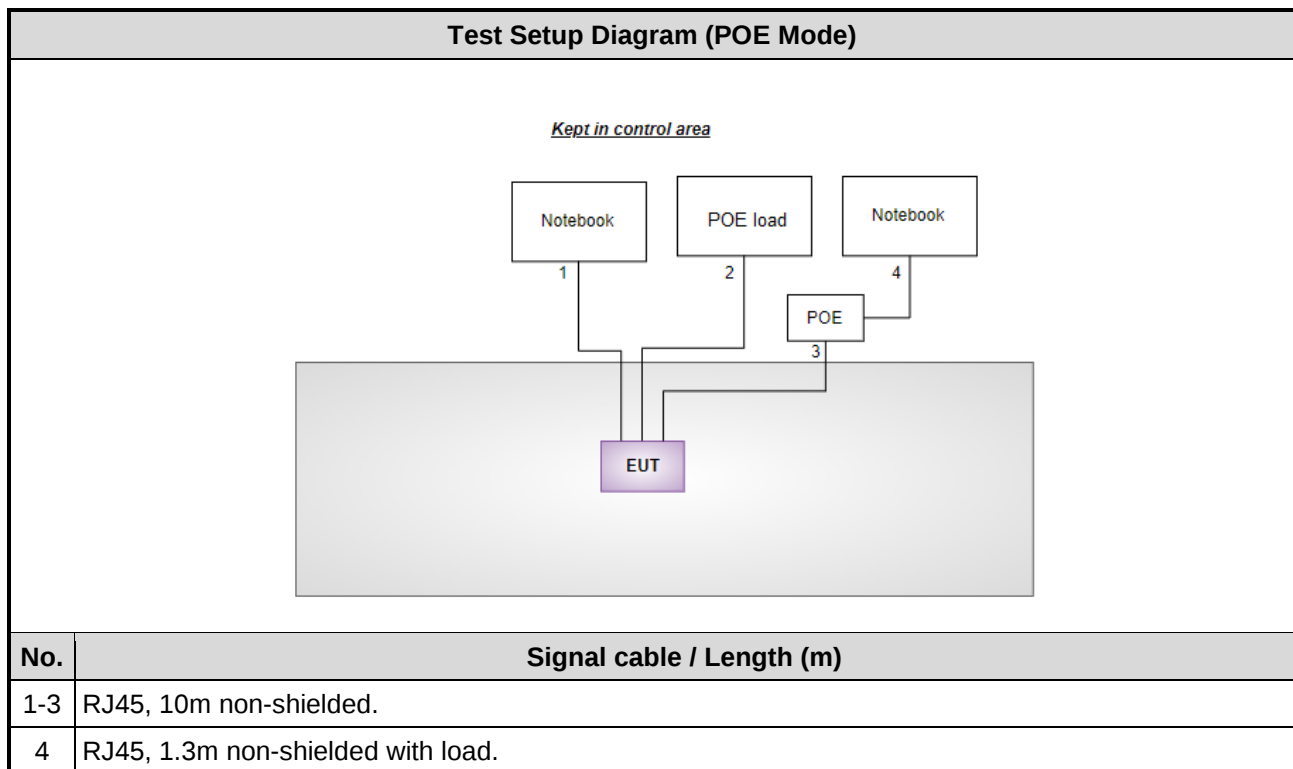
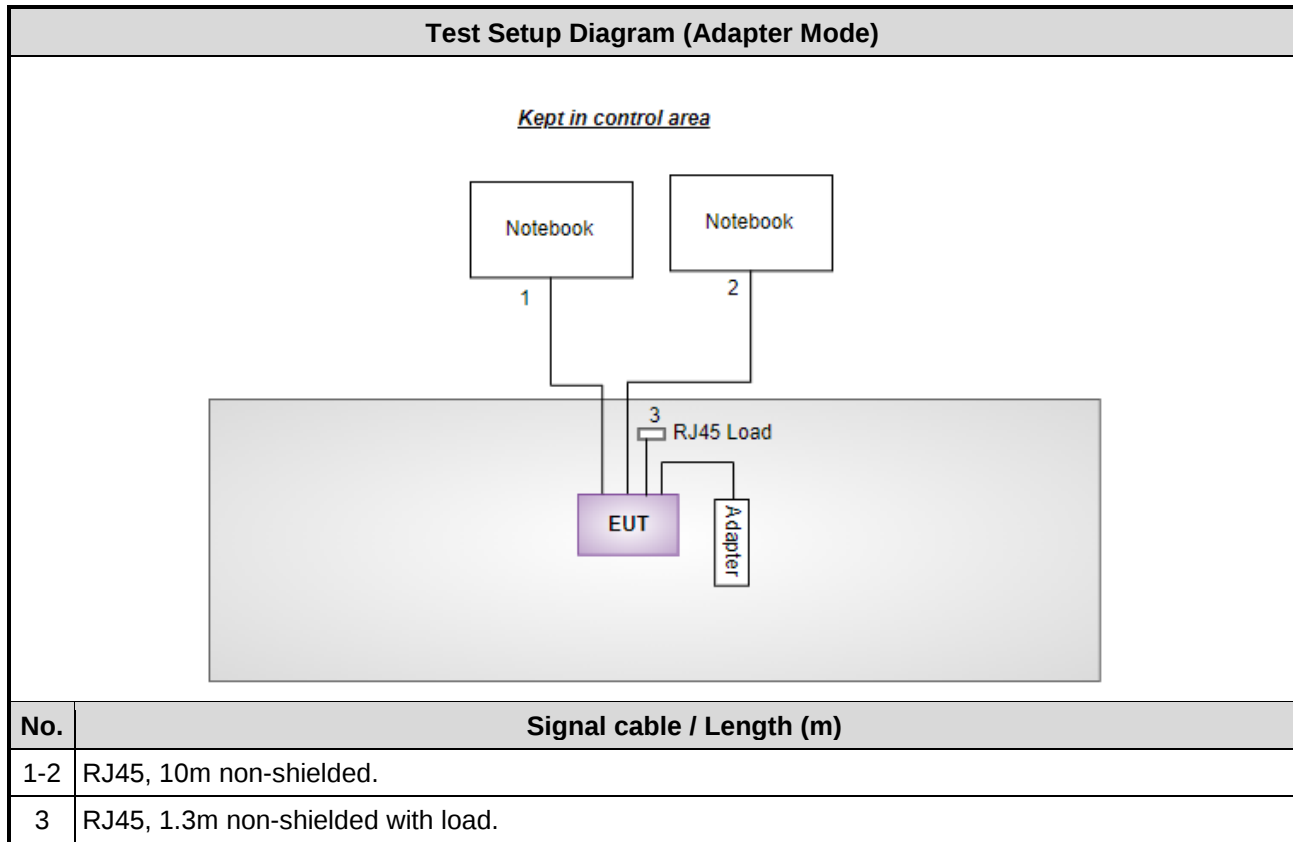
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	18
11a	5200	19.5
11a	5240	19.5
11a	5260	15
11a	5300	15
11a	5320	15
11a	5500	14.5
11a	5580	14.5
11a	5700	15
11a	5720	14.5
11a	5745	20
11a	5785	20
11a	5825	20
ax HE20-OFDMA	5180	17
ax HE20-OFDMA	5200	19.5
ax HE20-OFDMA	5240	19.5
ax HE20-OFDMA	5260	15.5
ax HE20-OFDMA	5300	15.5
ax HE20-OFDMA	5320	15.5
ax HE20-OFDMA	5500	15
ax HE20-OFDMA	5580	15
ax HE20-OFDMA	5700	15.5
ax HE20-OFDMA	5720	15
ax HE20-OFDMA	5745	20
ax HE20-OFDMA	5785	20

ax HE20-OFDMA	5825	20
ax HE40-OFDMA	5190	14
ax HE40-OFDMA	5230	18
ax HE40-OFDMA	5270	18
ax HE40-OFDMA	5310	13.5
ax HE40-OFDMA	5510	13
ax HE40-OFDMA	5590	17.5
ax HE40-OFDMA	5670	17
ax HE40-OFDMA	5710	18
ax HE40-OFDMA	5755	19
ax HE40-OFDMA	5795	19.5
ax HE80-OFDMA	5210	13
ax HE80-OFDMA	5290	13
ax HE80-OFDMA	5530	12.5
ax HE80-OFDMA	5610	17.5
ax HE80-OFDMA	5690	19.5
ax HE80-OFDMA	5775	17.5
ax HE160-OFDMA	5250	10.5
ax HE160-OFDMA	5570	8.5

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Laptop	DELL	Latitude E5470	DoC	---
2	Laptop	DELL	Latitude E5470	DoC	---
3	RJ45 Load	ICC	DTSE9	---	---
4	Power Adapter	LEADER	MU18D1120150 -A1	---	Remarks: I/P: 100-240V~, 50/60Hz, 0.6A Max. O/P: 12V=1.5A (Provided by applicant.)
5	POE	Engenius	EPA5006GP	---	Remarks: I/P: 100-240V~, 50-60Hz, 0.8A O/P: 54V=0.6A (Provided by applicant.)
6	POE load		AP6W	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Mar. 12 ~ Mar. 25, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 11, 2025	Mar. 10, 2026
Spectrum Analyzer	R&S	FSV40	101498	Nov. 12, 2024	Nov. 11, 2025
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 05, 2024	Nov. 04, 2025
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 09, 2024	Aug. 08, 2025
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 28, 2024	Nov. 27, 2025
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 18, 2024	Nov. 17, 2025
Preamplifier	EMC	EMC02325	980225	Jun. 17, 2024	Jun. 16, 2025
Preamplifier	EMC	EMC118A45SE	980898	Jul. 05, 2024	Jul. 04, 2025
Preamplifier	EMC	EMC184045SE	980903	Jul. 30, 2024	Jul. 29, 2025
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 02, 2024	Oct. 01, 2025
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 02, 2024	Oct. 01, 2025
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 02, 2024	Oct. 01, 2025
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 02, 2024	Oct. 01, 2025
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 02, 2024	Oct. 01, 2025
RF Cable	EMC	EMC104-35M-35M- 3000	210922	Oct. 02, 2024	Oct. 01, 2025
Attenuator	Pasternack	PE7005-10	10-1	Oct. 02, 2024	Oct. 01, 2025
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 02, 2024	Oct. 01, 2025
HIGHPASS FILTER 7.5-18G	STI	STI15-9722	STI-HP7.5G-A	Oct. 02, 2024	Oct. 01, 2025
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 17 ~ Mar. 27, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2024	Apr. 17, 2025
Power Meter	Anritsu	ML2495A	1241002	Nov. 26, 2024	Nov. 25, 2025
Power Sensor	Anritsu	MA2411B	1207366	Nov. 26, 2024	Nov. 25, 2025
Attenuator	Pasternack	PE7005-10	10-2	Oct. 04, 2024	Oct. 03, 2025
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jul. 01, 2024	Jun. 30, 2025
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 27, 2024	Dec. 26, 2025
Measurement Software	Sporton	SENSE-15407_NII	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 25, 2025				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 25, 2025	Feb. 24, 2026
LISN	R&S	ENV216	101579	May 09, 2024	May 08, 2025
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Mar. 21, 2025	Mar. 20, 2026
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Oct. 09, 2024	Oct. 08, 2025
50 ohm terminal	NA	50	01	Jun. 19, 2024	Jun. 18, 2025
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emissions	11a	5240	6 Mbps	1, 2
Unwanted Emissions ≤1GHz	11a	5240	6 Mbps	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1
	ax HE20-OFDMA	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	ax HE40-OFDMA	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	ax HE80-OFDMA	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	ax HE160-OFDMA	5250 / 5570	MCS 0	
Frequency Stability	Un-modulation	5300	---	1
Beamforming mode				
Conducted Output Power	ax HE20-OFDMA	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1
	ax HE40-OFDMA	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	ax HE80-OFDMA	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	ax HE160-OFDMA	5250 / 5570	MCS 0	
NOTE: 1. Test configurations are listed as below: 1) Configuration 1: Adapter mode 2) Configuration 2: POE mode				

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emissions	11a	5825	6 Mbps	1, 2
Unwanted Emissions ≤1GHz	11a	5825	6 Mbps	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	1
	ax HE20-OFDMA	5745 / 5785 / 5825	MCS 0	
	ax HE40-OFDMA	5755 / 5795	MCS 0	
	ax HE80-OFDMA	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	1
Beamforming mode				
Conducted Output Power	ax HE20-OFDMA	5745 / 5785 / 5825	6 Mbps	1
	ax HE40-OFDMA	5755 / 5795	MCS 0	
	ax HE80-OFDMA	5775	MCS 0	
NOTE: 1. Test configurations are listed as below: 1) Configuration 1: Adapter mode 2) Configuration 2: POE mode				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.1.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

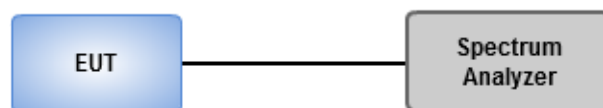
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW $\geq$ 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	23-24°C / 66-67%	Tested By	Roger Lu / Akun Chung
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☒	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
☒	5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.		

3.2.2 Test Procedures

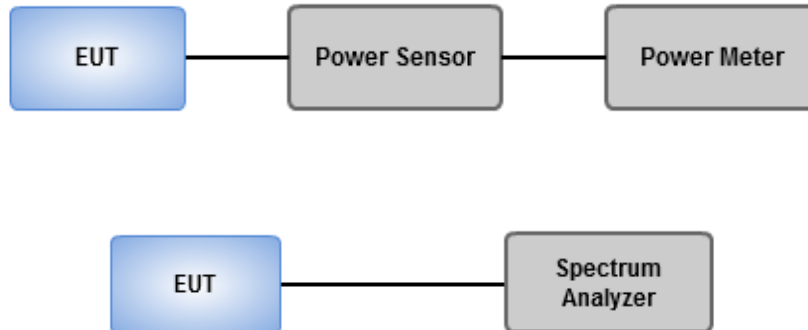
Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	23-24°C / 66-67%	Tested By	Roger Lu / Akun Chung
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	17 dBm / MHz
☒	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☐	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz
☒	5725 ~ 5850	30 dBm /500 kHz

3.3.2 Test Procedures

For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

Duty cycle $\geq 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725 ~ 5850 MHz

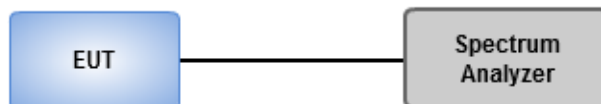
Duty cycle $\geq 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	23-24°C / 66-67%	Tested By	Roger Lu / Akun Chung
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Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

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 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

3.4.2 Test Procedures

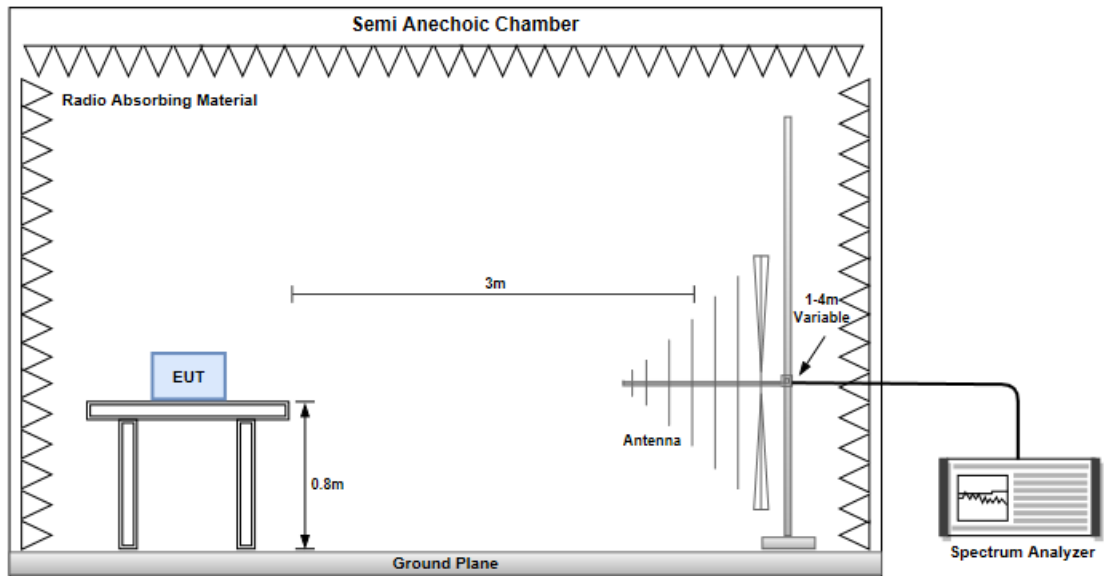
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360° . A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360° , the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

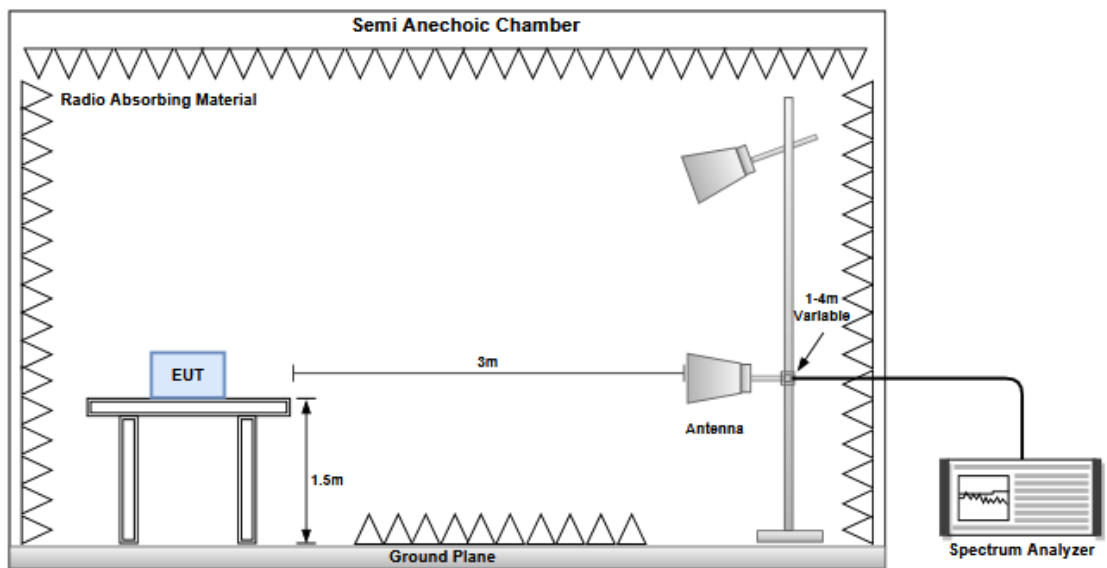
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Unwanted Emissions below 1 GHz



Unwanted Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

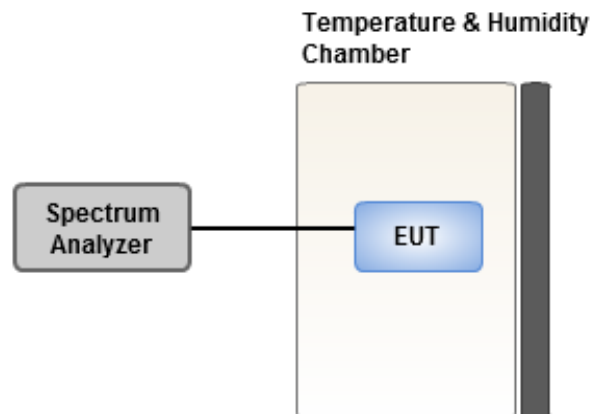
3.5.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.5.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	23-24°C / 66-67%	Tested By	Roger Lu / Akun Chung
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

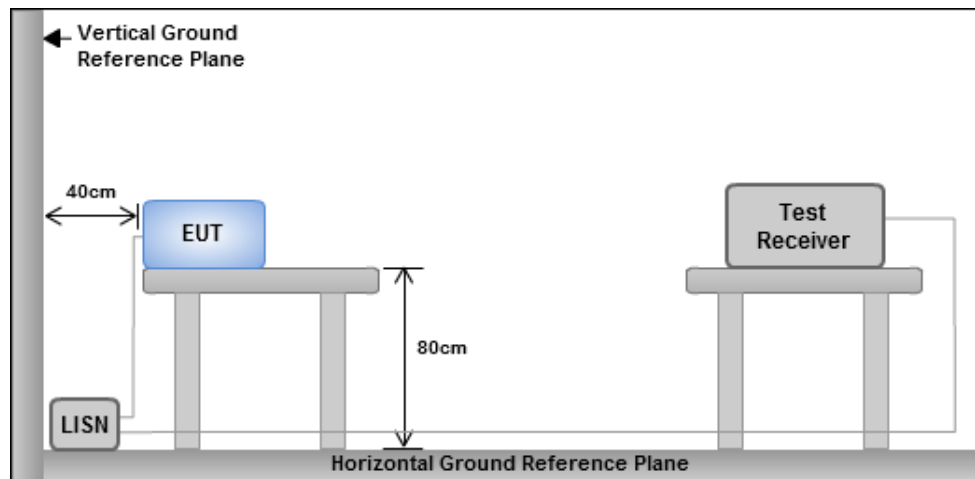
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	29.238M	16.703M	16M7D1D	18.414M	16.216M
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	28.908M	18.981M	19M0D1D	20.724M	18.766M
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	39.864M	37.601M	37M6D1D	39.732M	37.503M
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	81.312M	76.551M	76M6D1D	81.048M	76.518M
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	82.4M	77.641M	77M6D1D	80.96M	77.401M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	18.612M	16.237M	16M2D1D	18.216M	16.196M
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	20.988M	18.793M	18M8D1D	20.46M	18.771M
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	40.392M	37.62M	37M6D1D	39.864M	37.501M
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	81.312M	76.727M	76M7D1D	81.312M	76.467M
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	80.88M	77.721M	77M7D1D	80.48M	77.241M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	18.612M	16.241M	16M2D1D	14.25M	13.05M
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	21.054M	18.776M	18M8D1D	14.925M	14.328M
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	40.128M	37.517M	37M5D1D	34.965M	33.525M
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	121.425M	76.698M	76M7D1D	81.048M	73.1M
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	164.736M	155.106M	155MD1D	164.736M	155.013M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	15.114M	20.815M	20M8D1D	3.12M	3.515M
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	18.48M	24.828M	24M8D1D	4.24M	4.554M
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	34.32M	38.341M	38M3D1D	3.94M	16.413M
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	72.6M	76.668M	76M7D1D	3.78M	35.733M

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 / Minimum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	18.942M	16.216M	18.414M	16.253M
5200MHz	Pass	Inf	21.582M	16.35M	24.42M	16.455M
5240MHz	Pass	Inf	29.238M	16.518M	28.512M	16.703M
5260MHz	Pass	Inf	18.282M	16.196M	18.348M	16.224M
5300MHz	Pass	Inf	18.612M	16.199M	18.414M	16.237M
5320MHz	Pass	Inf	18.216M	16.208M	18.414M	16.228M
5500MHz	Pass	Inf	18.282M	16.229M	18.612M	16.23M
5580MHz	Pass	Inf	18.414M	16.215M	18.348M	16.241M
5700MHz	Pass	Inf	18.216M	16.223M	18.216M	16.241M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.43M	13.05M	14.25M	13.099M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	3.664M	3.12M	3.515M
5745MHz	Pass	500k	14.388M	16.701M	14.388M	16.627M
5785MHz	Pass	500k	14.85M	16.621M	15.048M	17.12M
5825MHz	Pass	500k	15.114M	16.82M	14.916M	20.815M
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-
5180MHz	Pass	Inf	20.724M	18.827M	20.856M	18.766M
5200MHz	Pass	Inf	25.08M	18.95M	24.684M	18.936M
5240MHz	Pass	Inf	28.908M	18.921M	26.4M	18.981M
5260MHz	Pass	Inf	20.79M	18.793M	20.79M	18.783M
5300MHz	Pass	Inf	20.922M	18.787M	20.46M	18.785M
5320MHz	Pass	Inf	20.658M	18.789M	20.988M	18.771M
5500MHz	Pass	Inf	21.054M	18.747M	20.856M	18.776M
5580MHz	Pass	Inf	20.658M	18.768M	20.856M	18.759M
5700MHz	Pass	Inf	20.79M	18.736M	20.592M	18.746M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.27M	14.344M	14.925M	14.328M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.24M	4.562M	4.38M	4.554M
5745MHz	Pass	500k	9.504M	24.828M	11.22M	22.549M
5785MHz	Pass	500k	18.48M	18.981M	16.302M	19.254M
5825MHz	Pass	500k	14.982M	19.064M	12.738M	22.827M
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-
5190MHz	Pass	Inf	39.732M	37.503M	39.864M	37.524M
5230MHz	Pass	Inf	39.732M	37.601M	39.732M	37.601M
5270MHz	Pass	Inf	40.392M	37.62M	39.864M	37.619M
5310MHz	Pass	Inf	39.996M	37.501M	39.996M	37.507M
5510MHz	Pass	Inf	40.128M	37.442M	39.864M	37.494M
5590MHz	Pass	Inf	39.864M	37.515M	39.996M	37.517M
5670MHz	Pass	Inf	39.996M	37.45M	39.996M	37.511M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.965M	33.58M	35.105M	33.525M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.96M	17.402M	3.94M	16.413M
5755MHz	Pass	500k	33.792M	37.8M	26.268M	37.874M
5795MHz	Pass	500k	34.32M	37.913M	32.604M	38.341M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-
5210MHz	Pass	Inf	81.048M	76.518M	81.312M	76.551M
5290MHz	Pass	Inf	81.312M	76.727M	81.312M	76.467M
5530MHz	Pass	Inf	81.312M	76.354M	81.312M	76.371M
5610MHz	Pass	Inf	81.048M	76.625M	81.312M	76.698M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	90.9M	73.1M	121.425M	73.533M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	37.611M	3.94M	35.733M
5775MHz	Pass	500k	72.6M	76.565M	49.896M	76.668M
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.4M	77.401M	80.96M	77.641M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.48M	77.241M	80.88M	77.721M
5570MHz	Pass	Inf	164.736M	155.106M	164.736M	155.013M

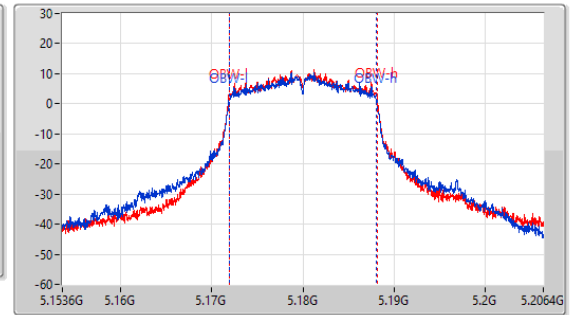
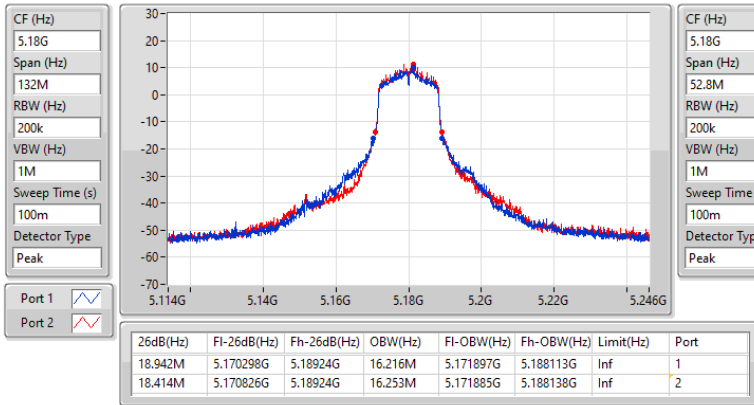
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

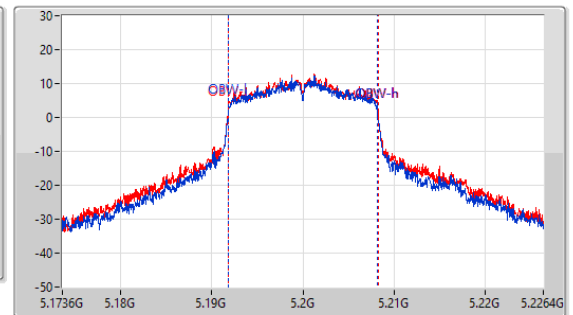
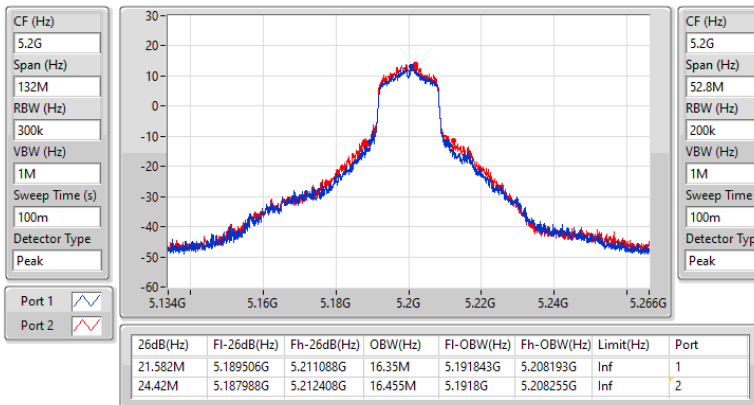
5180MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

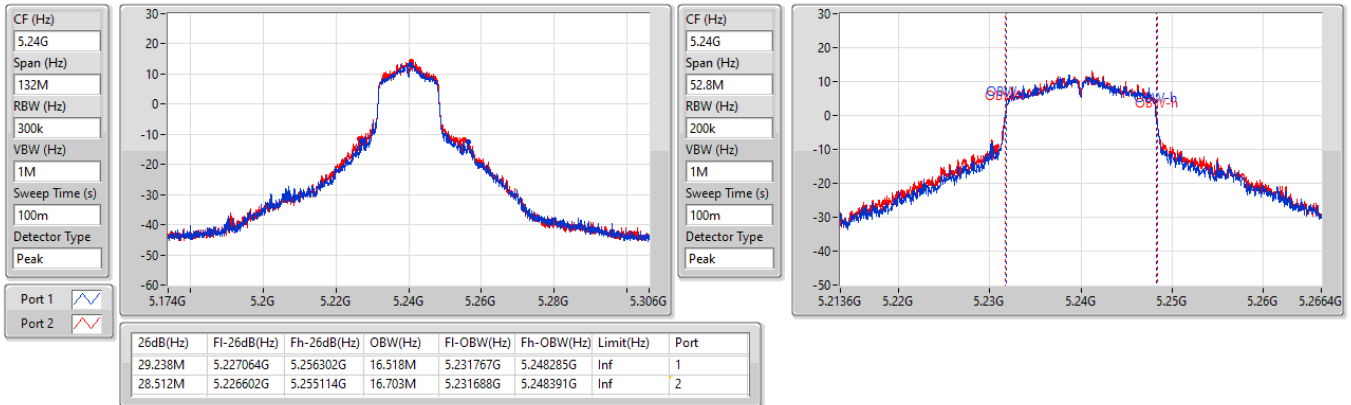




5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

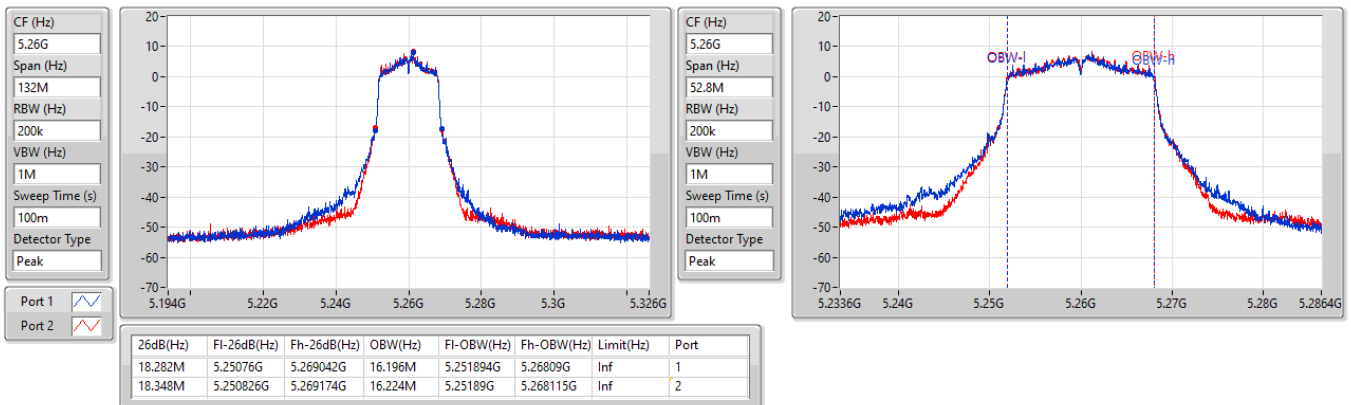
5240MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

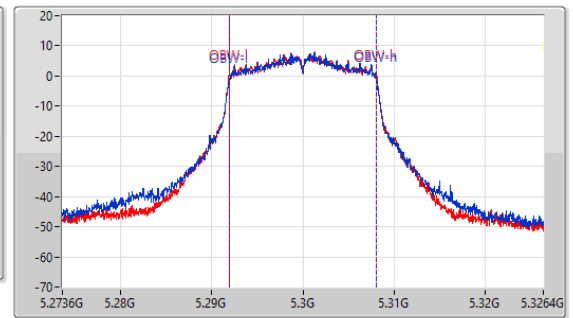
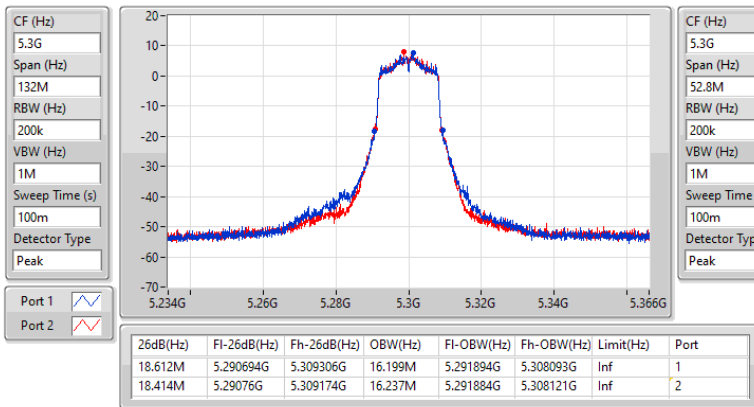
5260MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

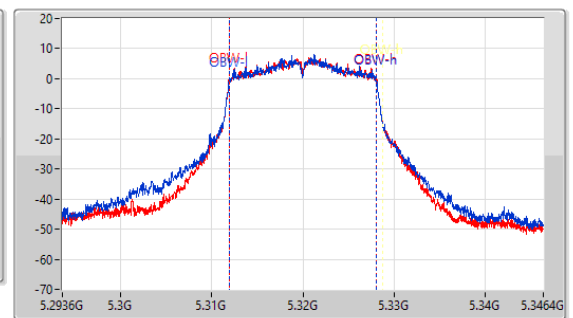
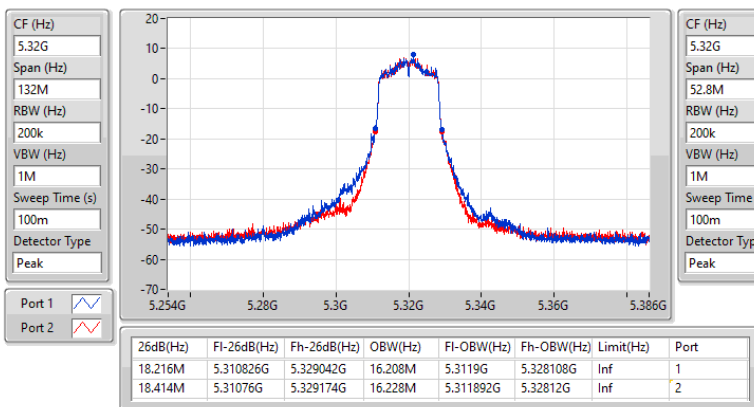
5300MHz



5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

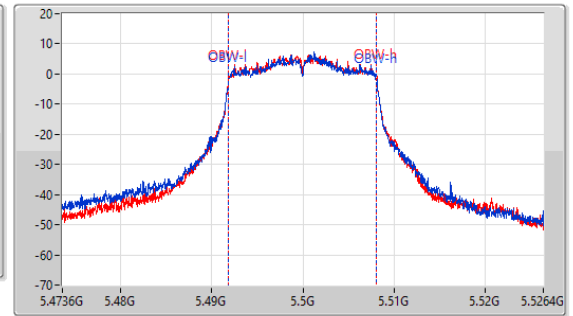
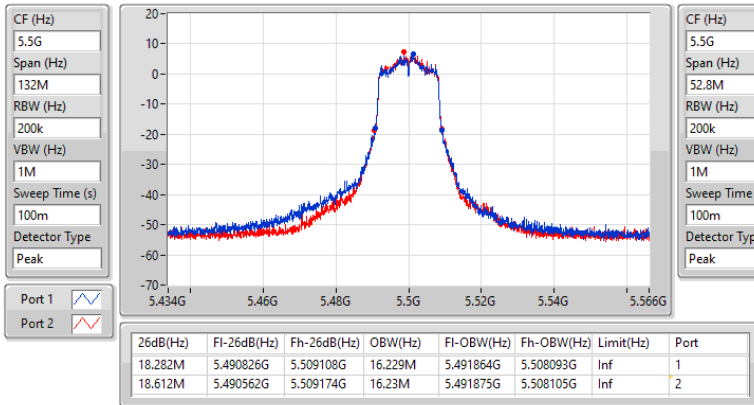
5320MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

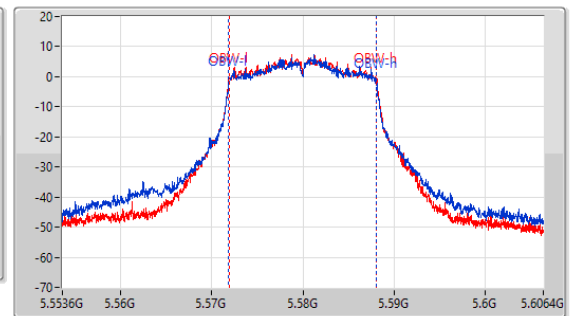
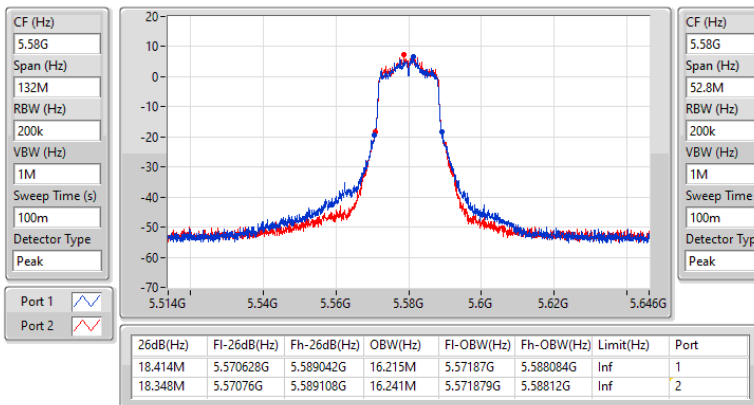
5500MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

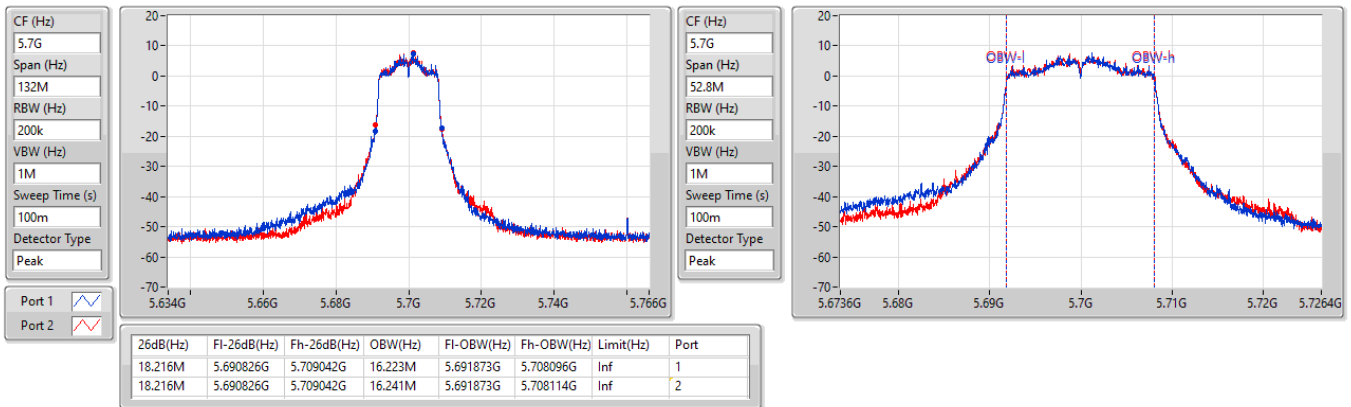




5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

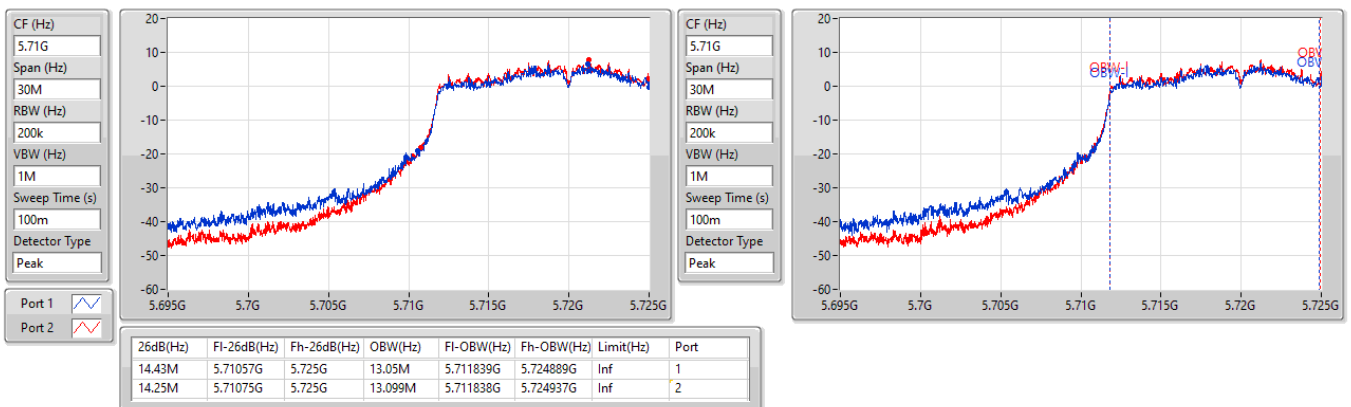
5700MHz



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

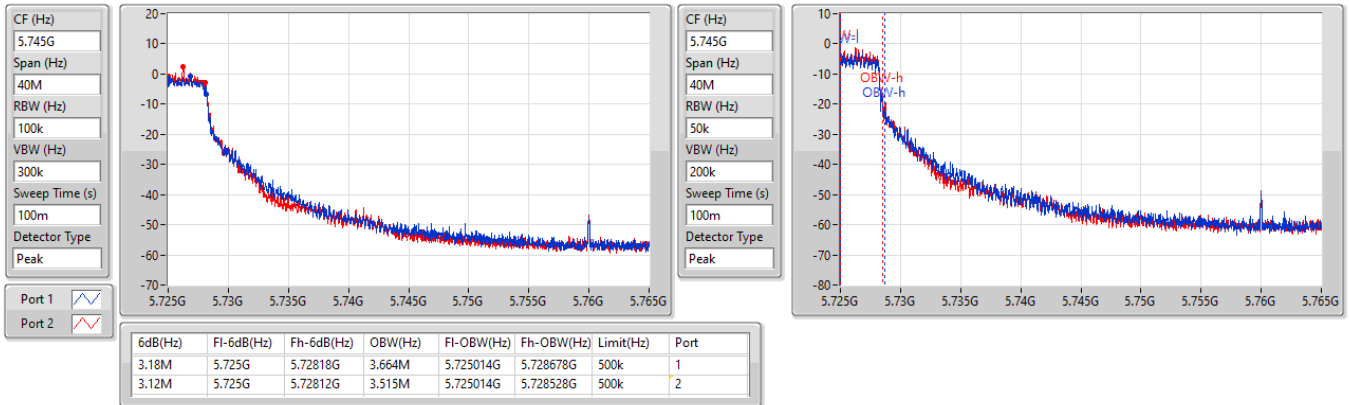
5720MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

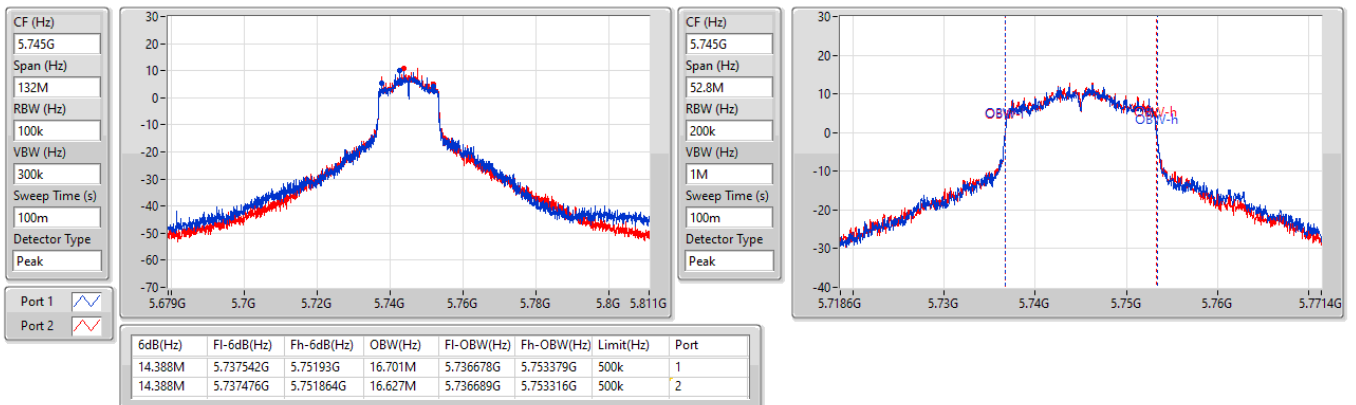
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

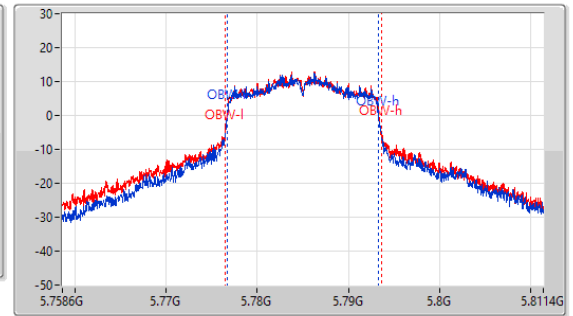
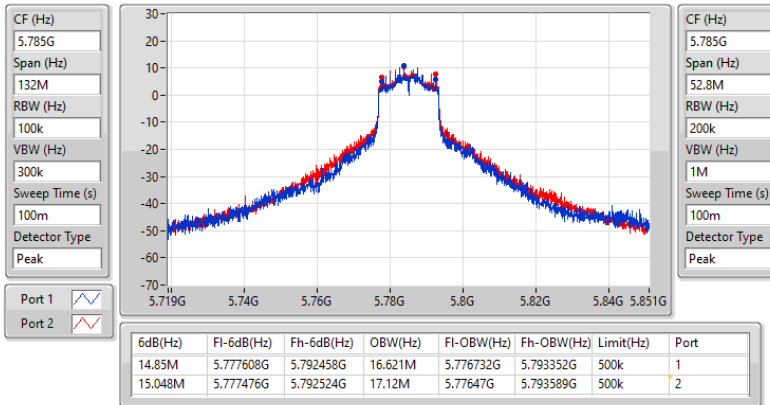
5745MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

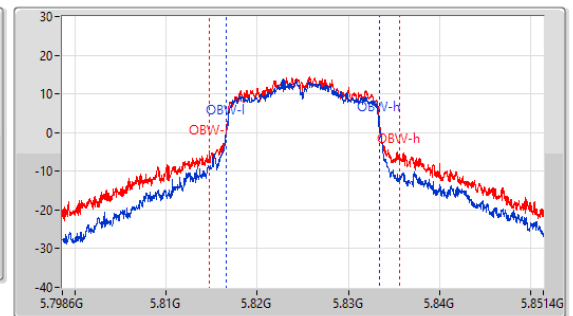
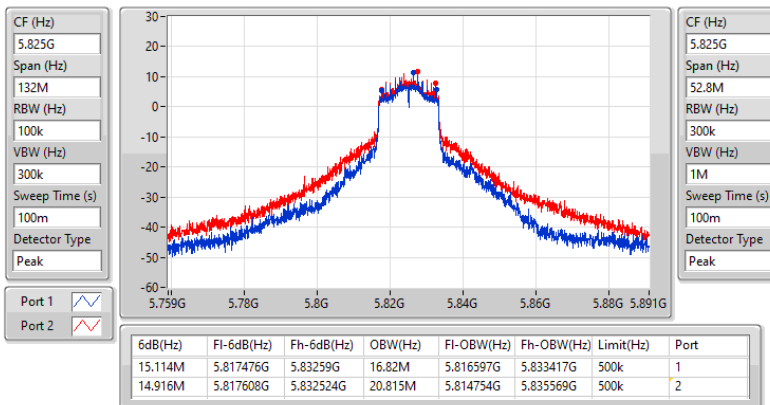
5785MHz



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

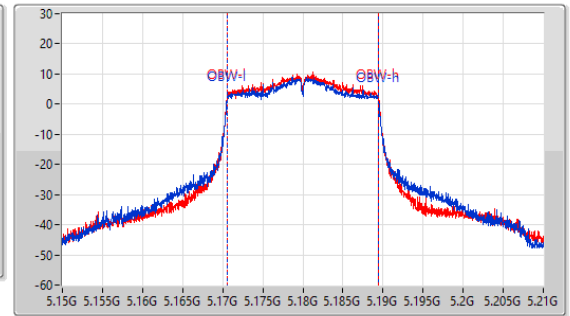
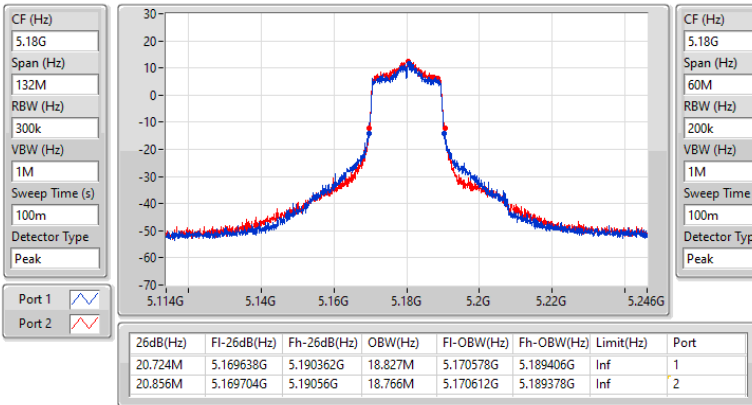




5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

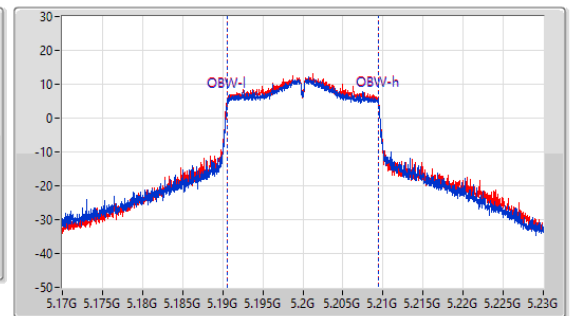
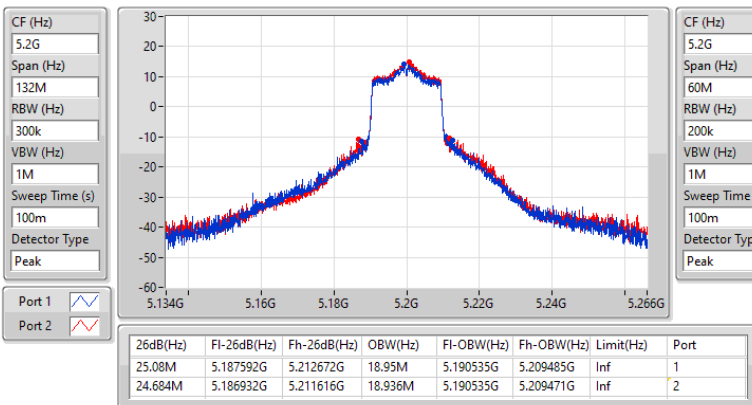
5180MHz



5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

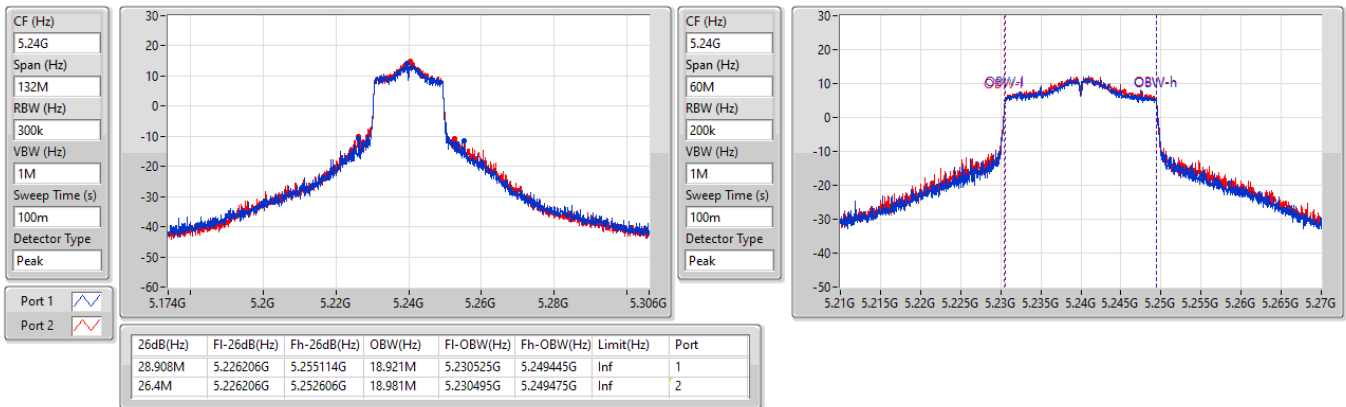
5200MHz



5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

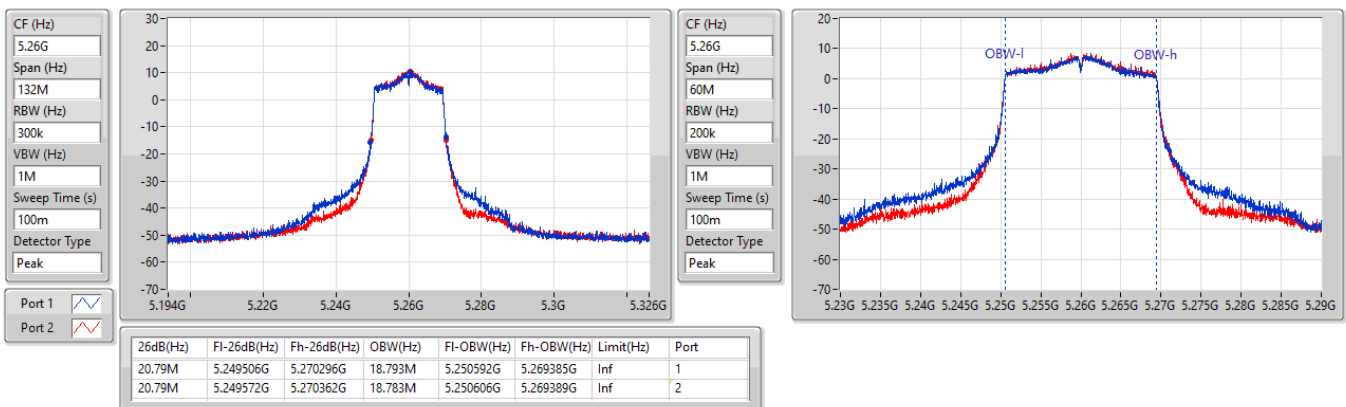
5240MHz



5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5260MHz

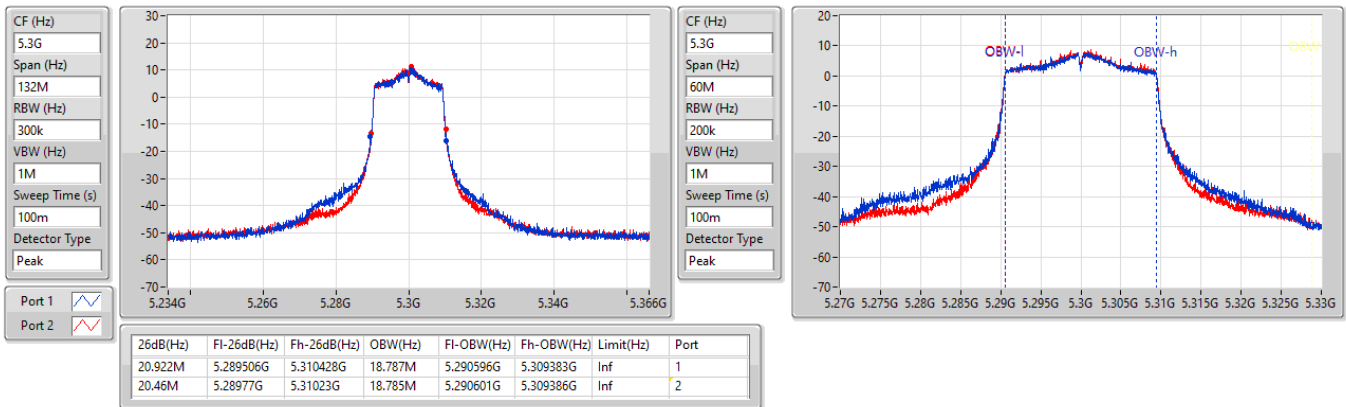




5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

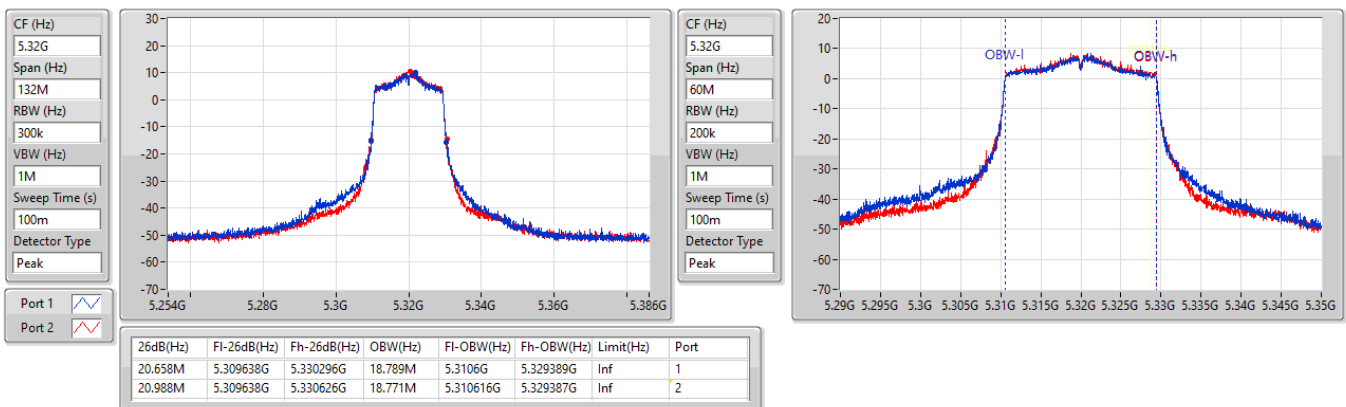
5300MHz



5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

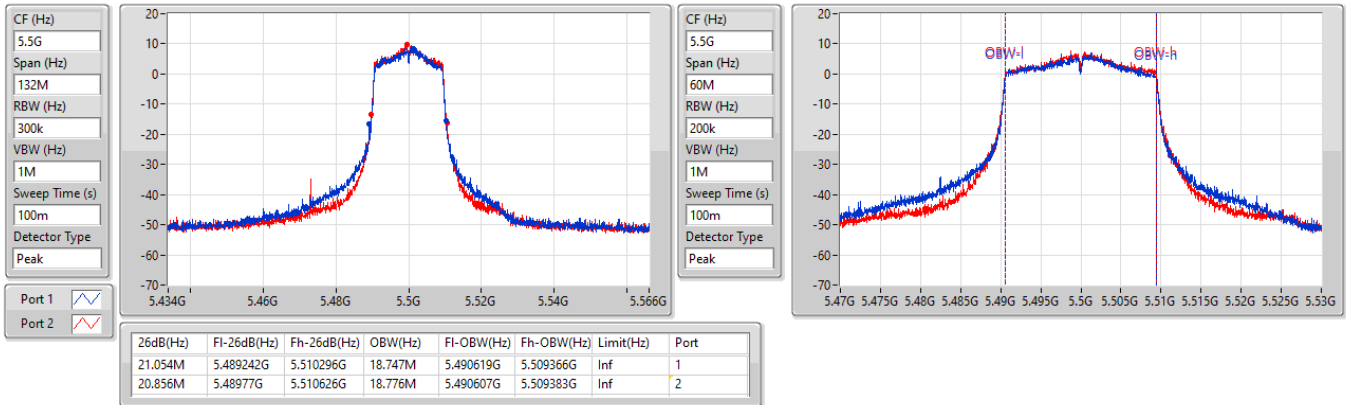
5320MHz



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

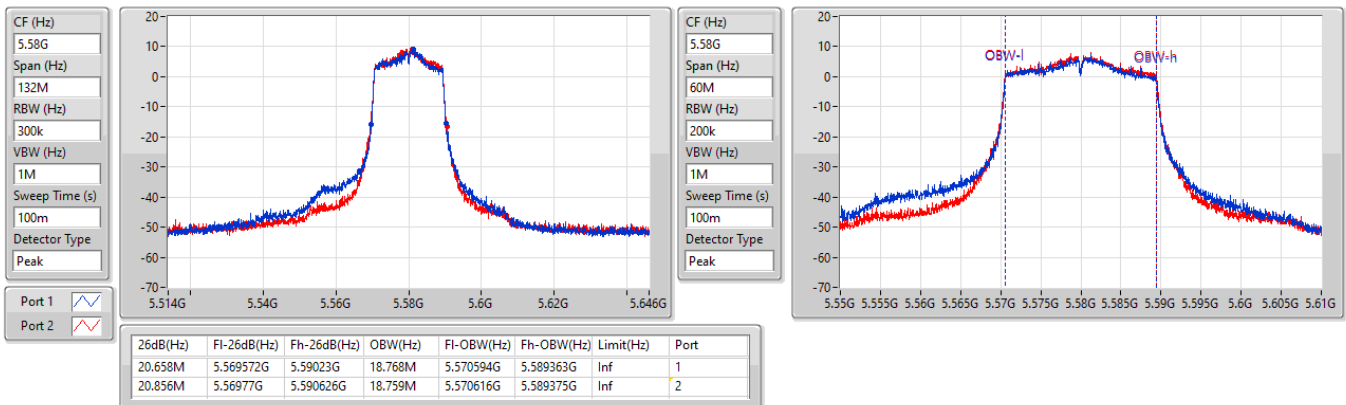
5500MHz



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5580MHz

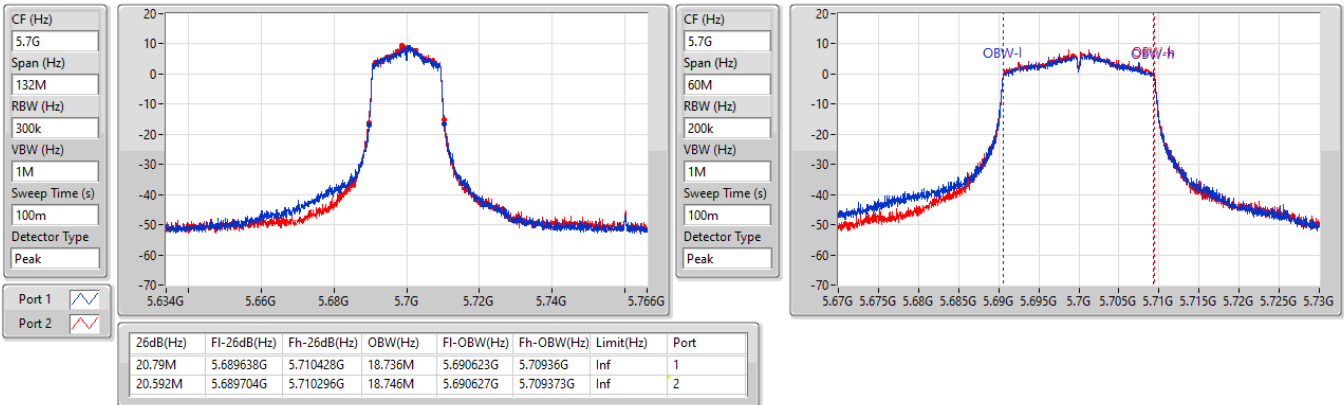




5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

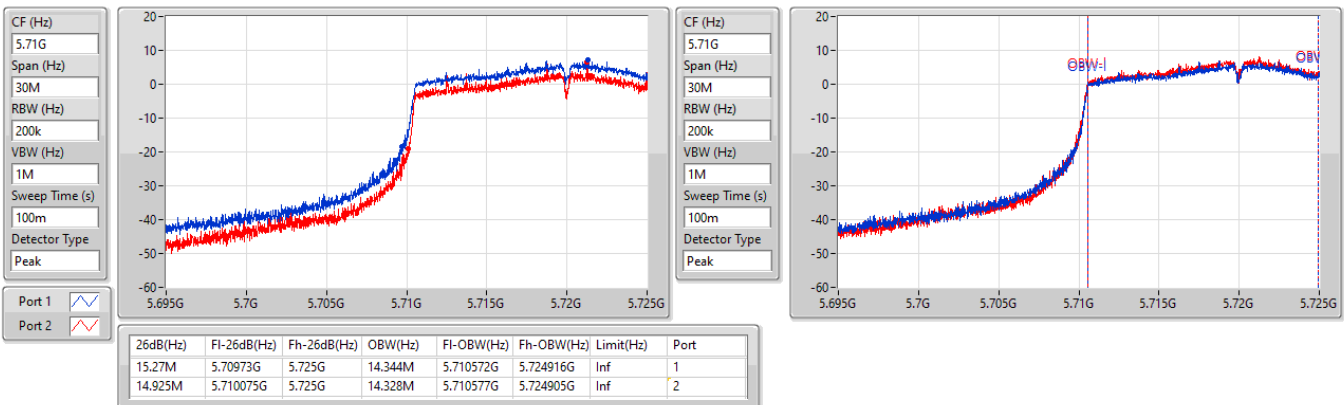
5700MHz



5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

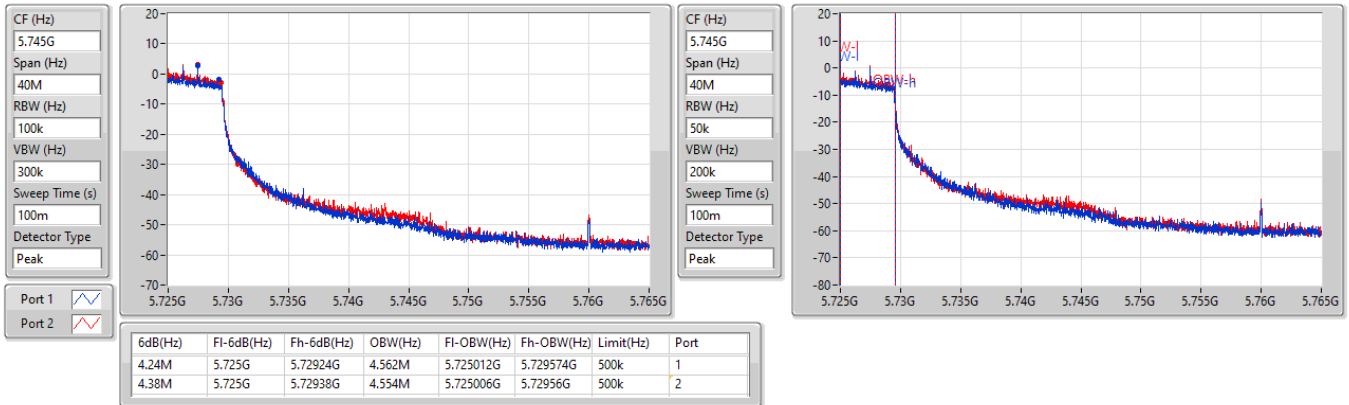




5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

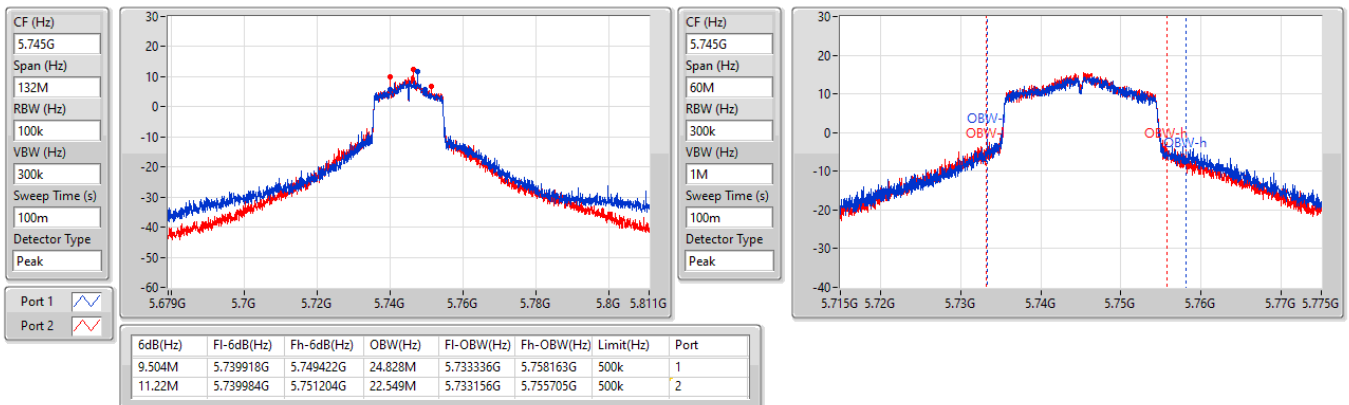
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

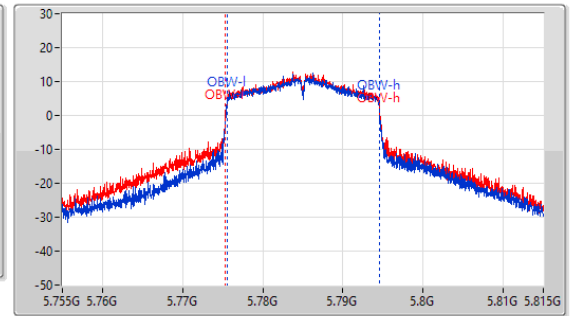
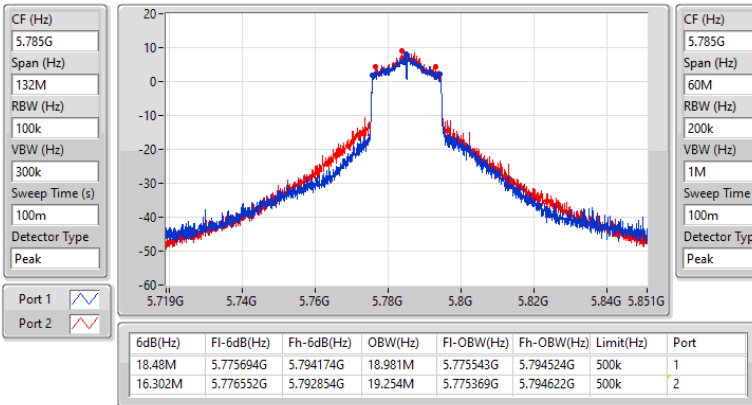
5745MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

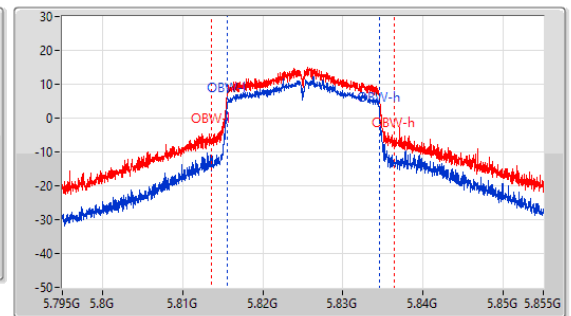
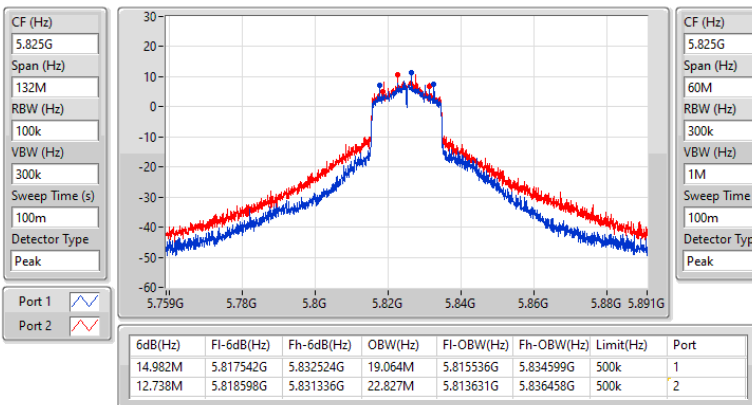
5785MHz



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

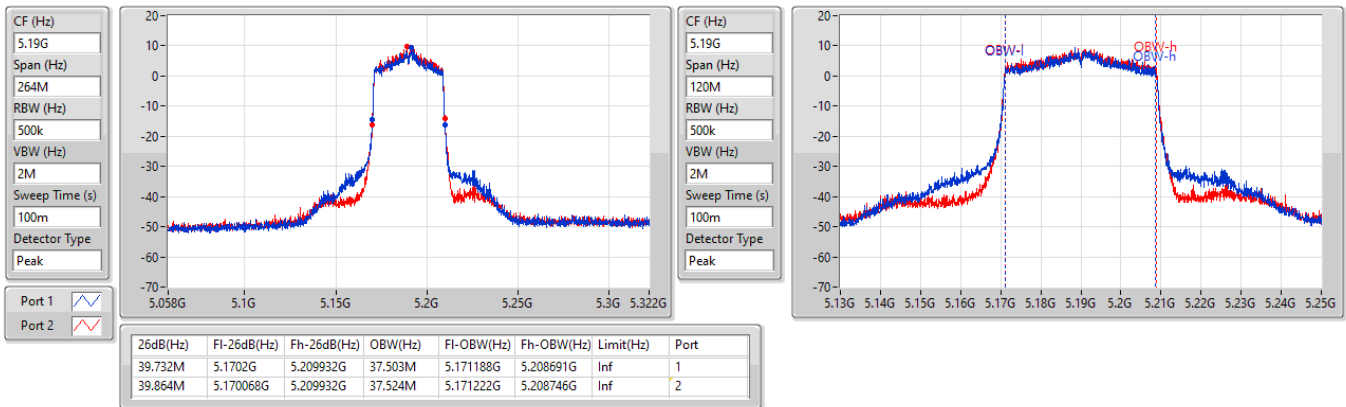
5825MHz



5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

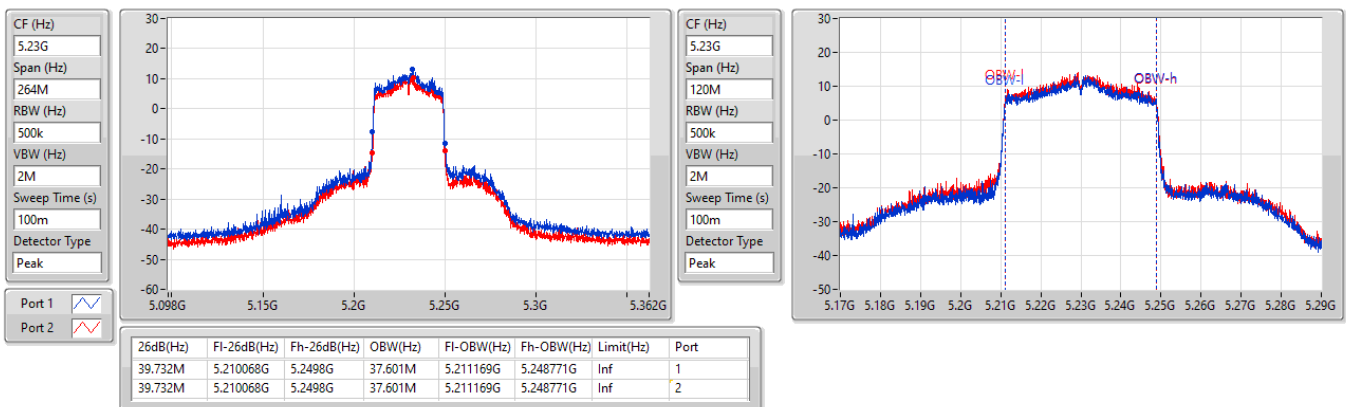
5190MHz



5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

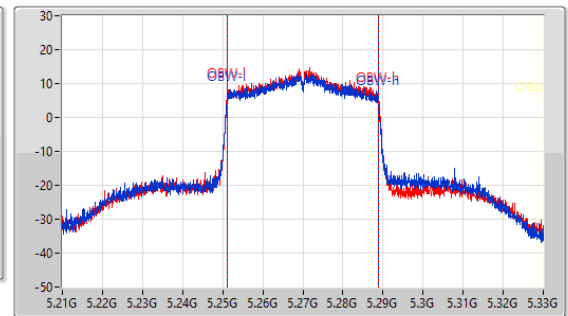
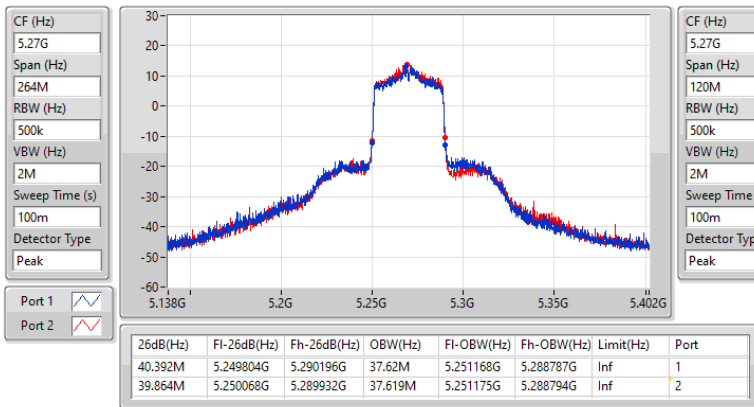
5230MHz



5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

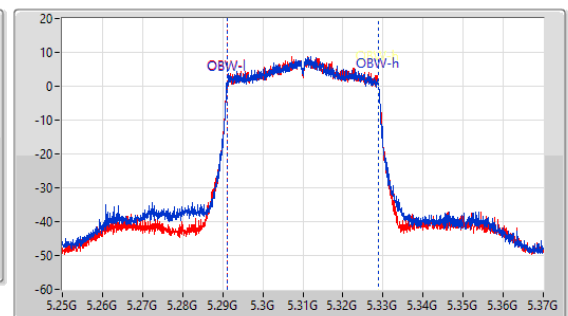
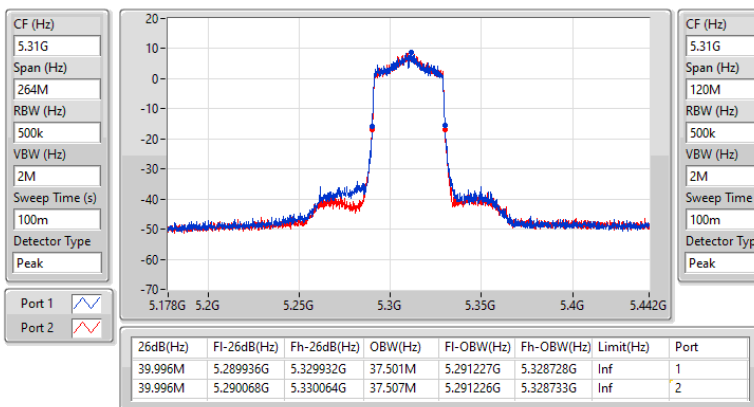
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5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

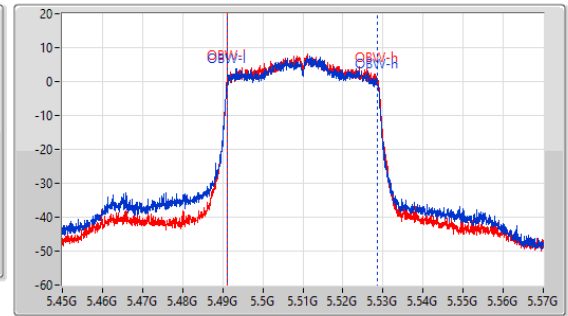
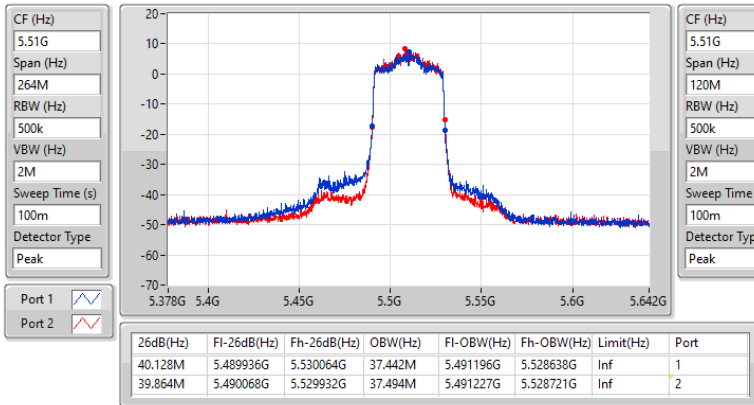
5310MHz



5.47-5.725GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

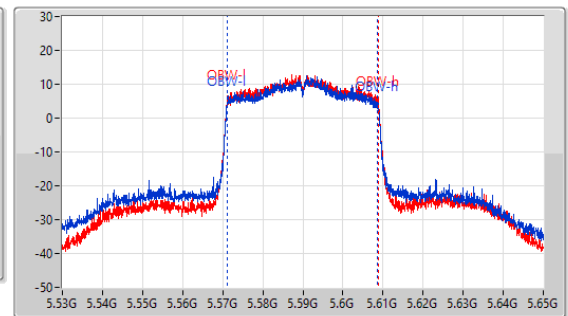
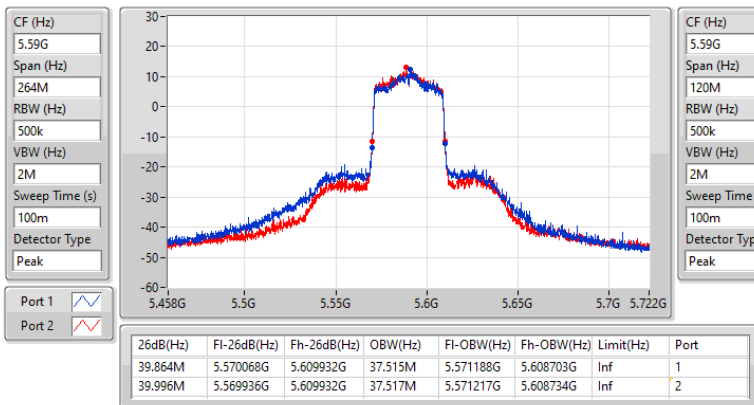
5510MHz



5.47-5.725GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5590MHz

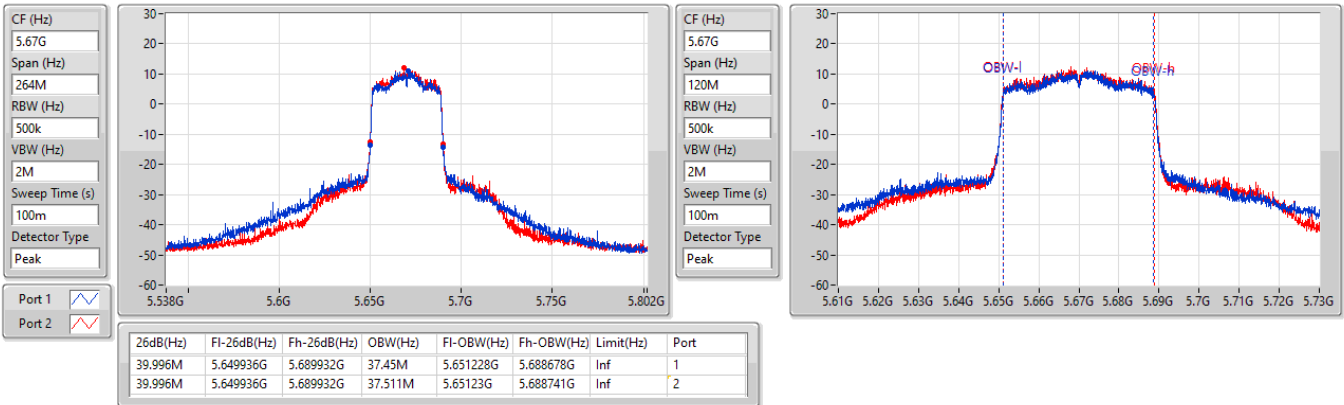




5.47-5.725GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

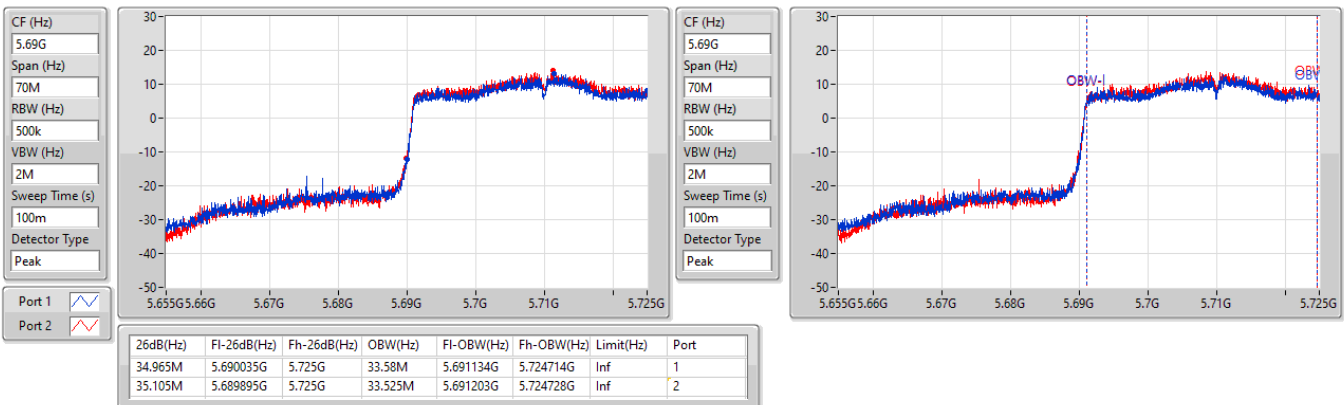
5670MHz



5.47-5.725GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

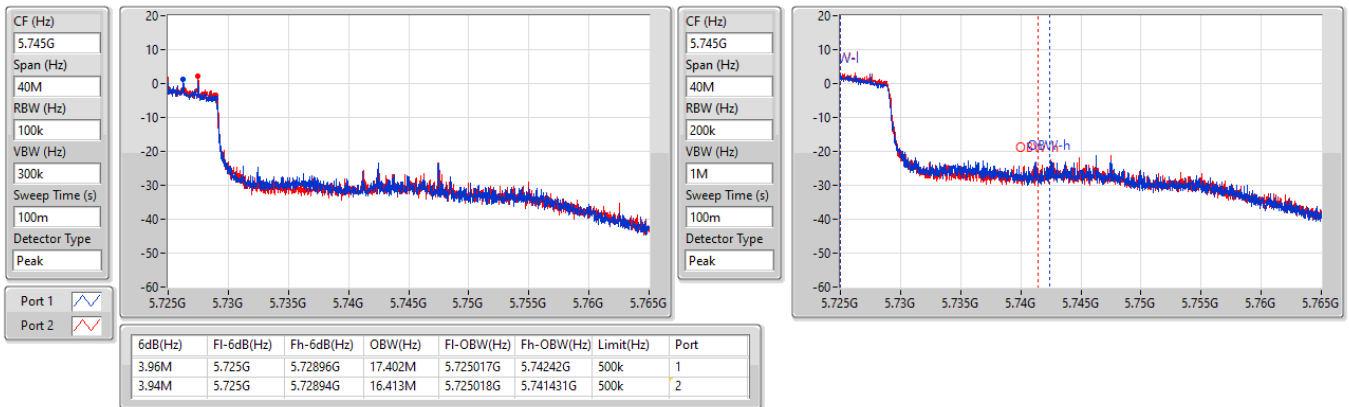
5710MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

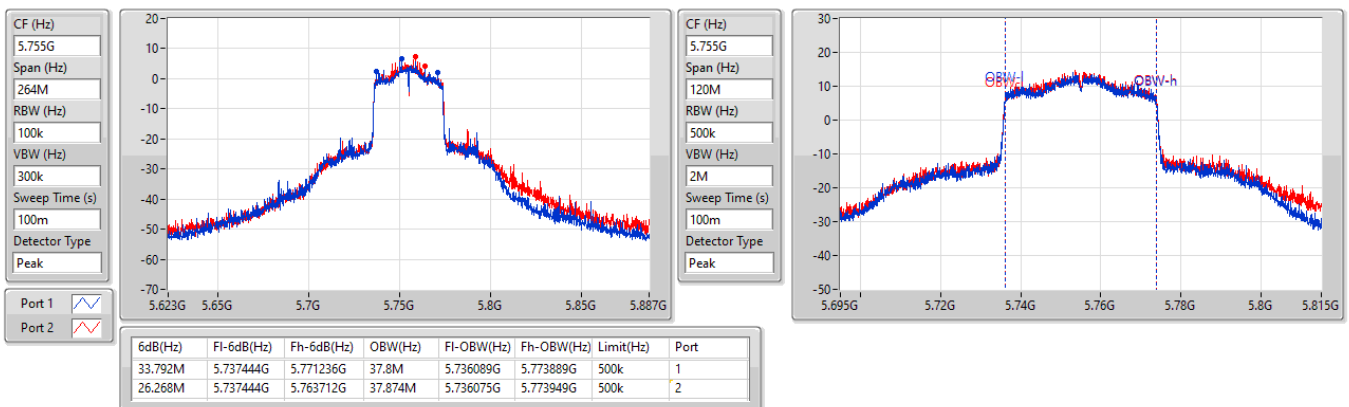
5710MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

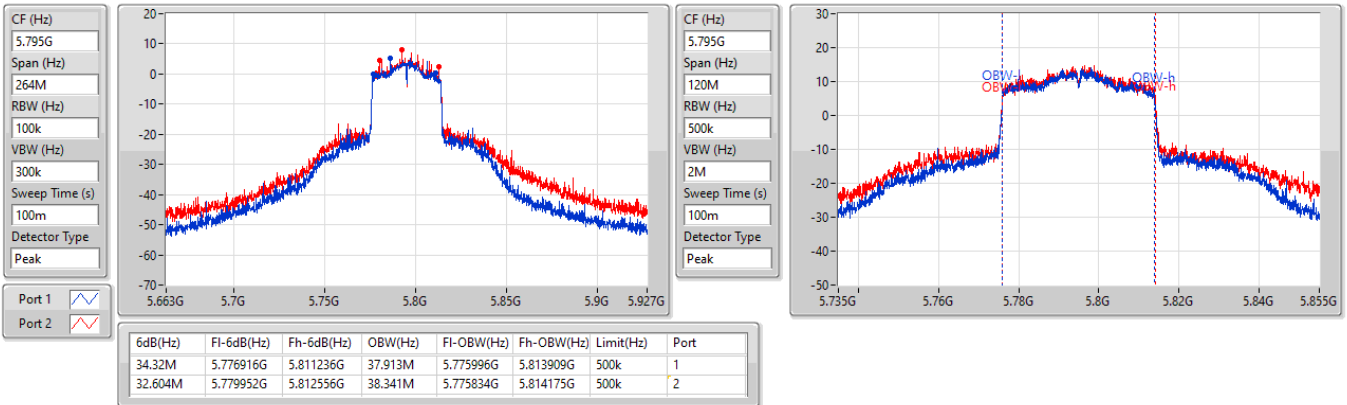
5755MHz



5.725-5.85GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

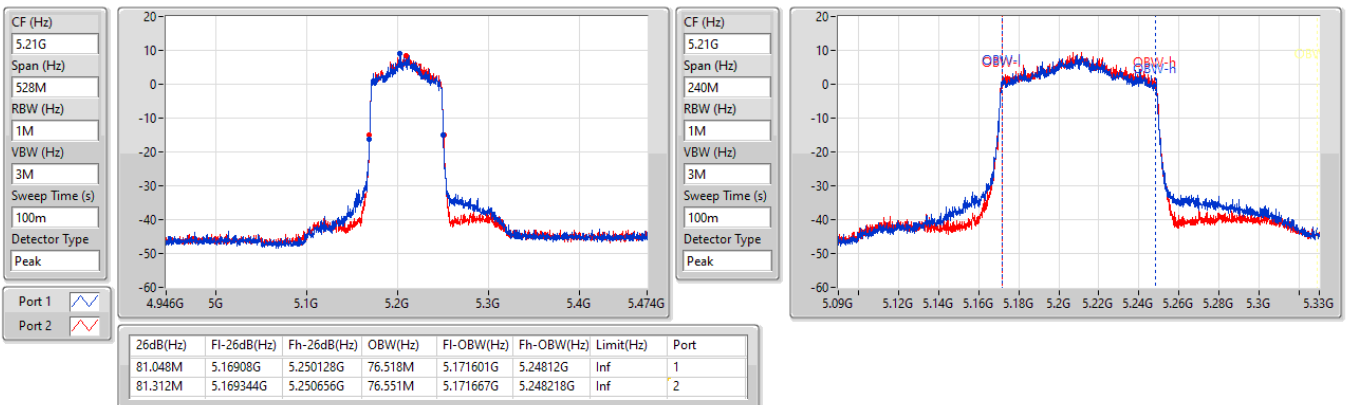
5795MHz



5.15-5.25GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

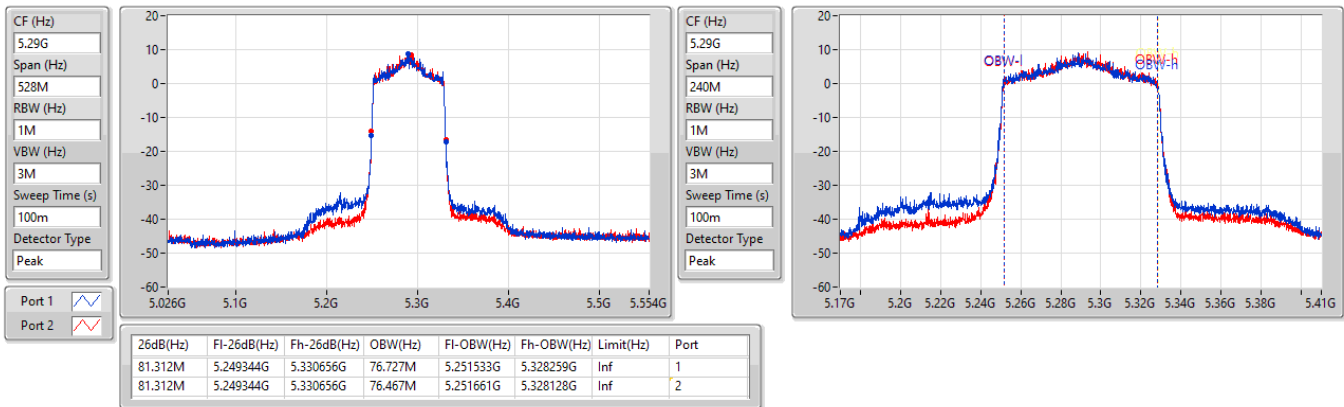
5210MHz



5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

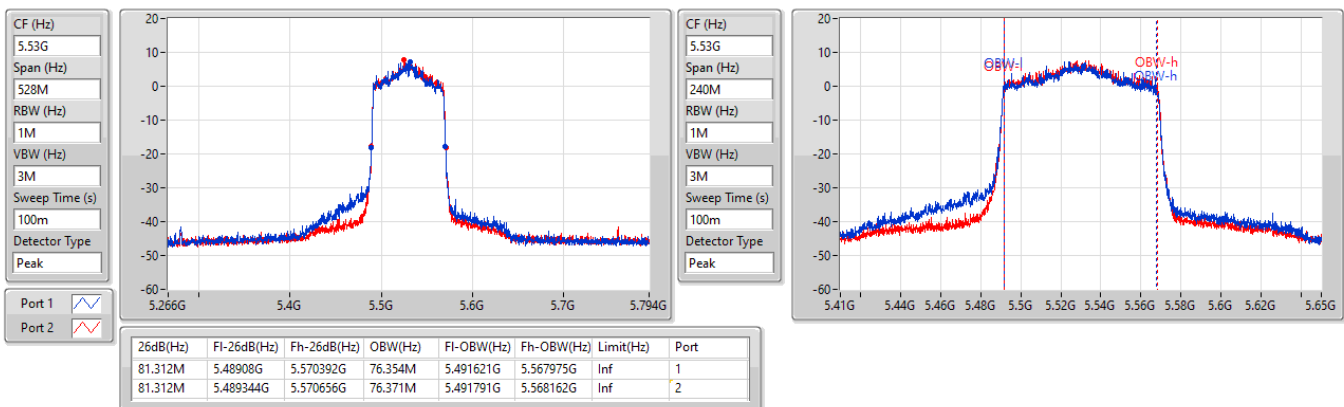
5290MHz



5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5530MHz

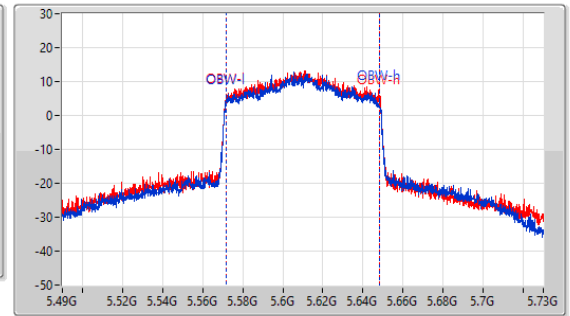
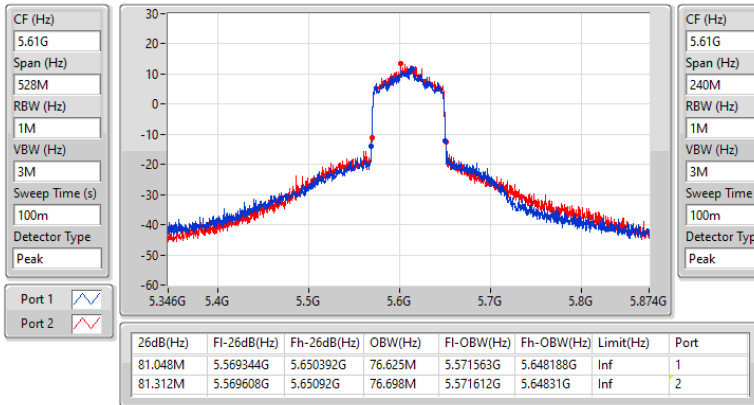




5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

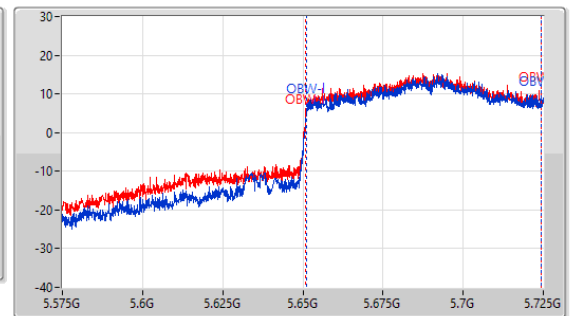
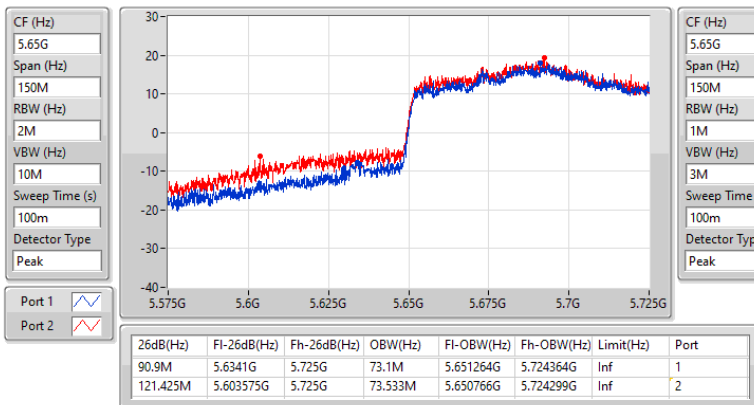
5610MHz



5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

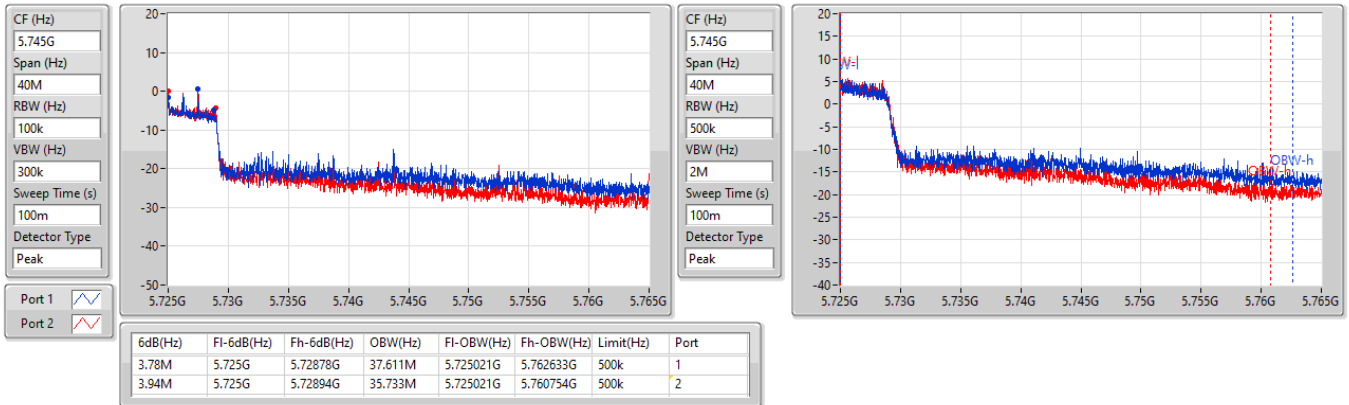
5690MHz Straddle 5.47-5.725GHz



5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

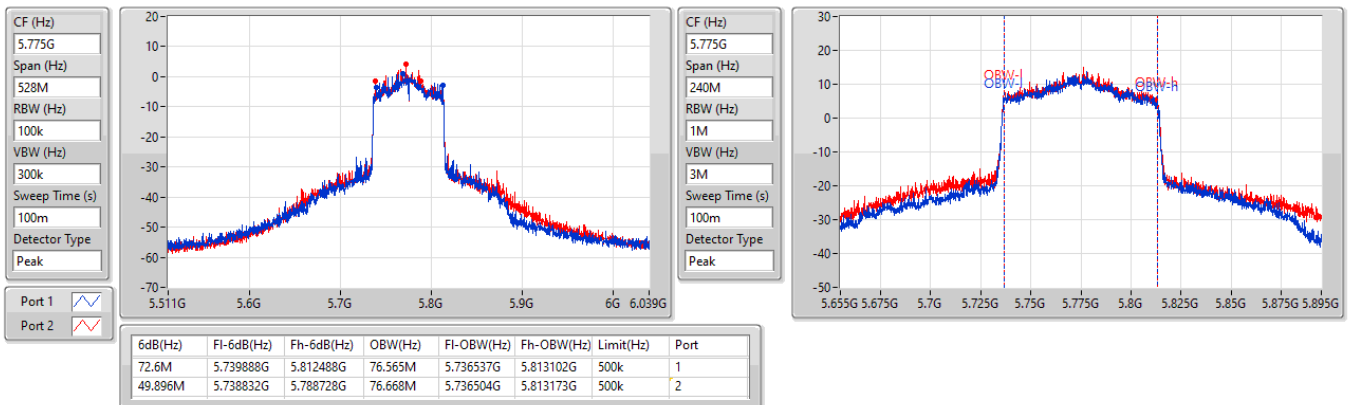
5690MHz Straddle 5.725-5.85GHz



5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

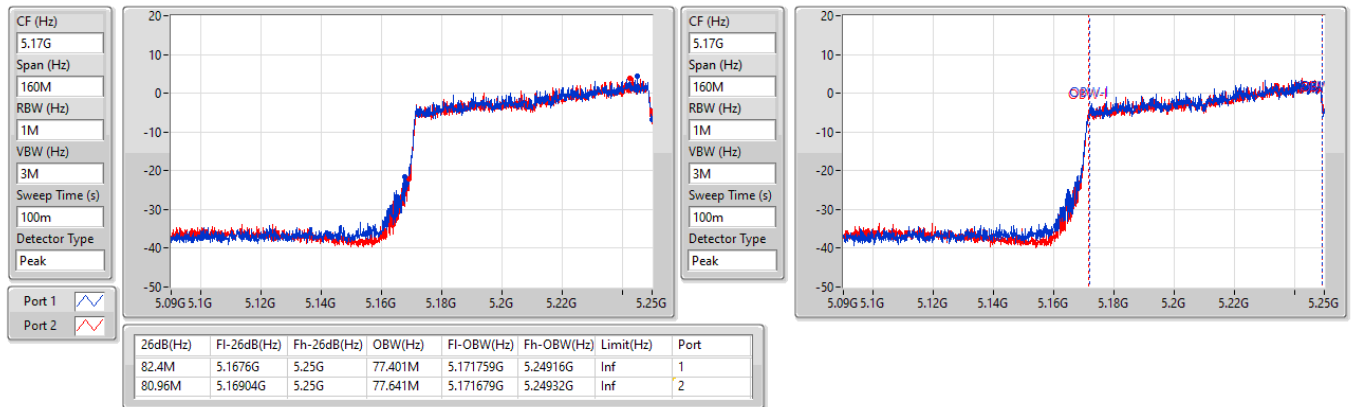




5.15-5.25GHz_802.11ax_HEW160_Nss1,(MCS0)_2TX

EBW

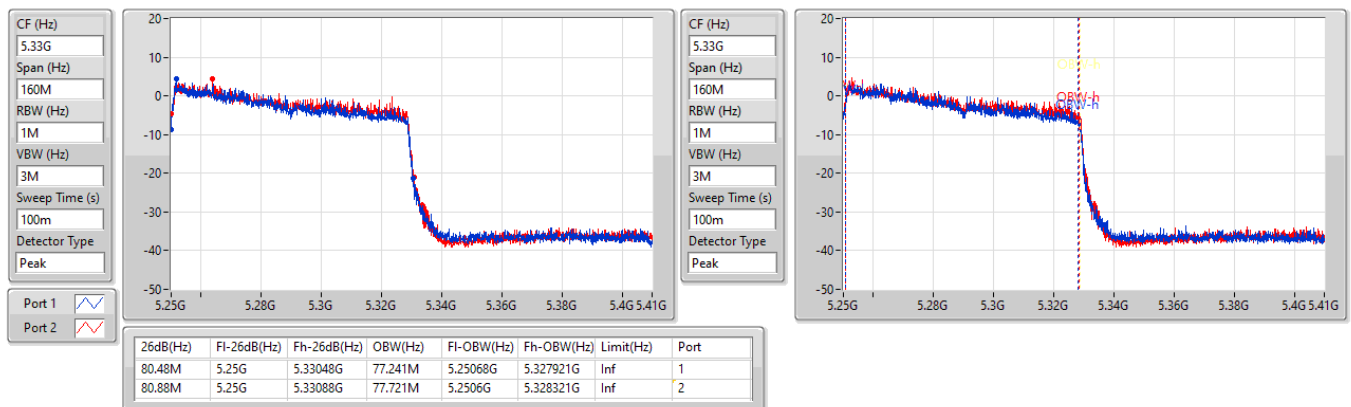
5250MHz Straddle 5.15-5.25GHz



5.25-5.35GHz_802.11ax_HEW160_Nss1,(MCS0)_2TX

EBW

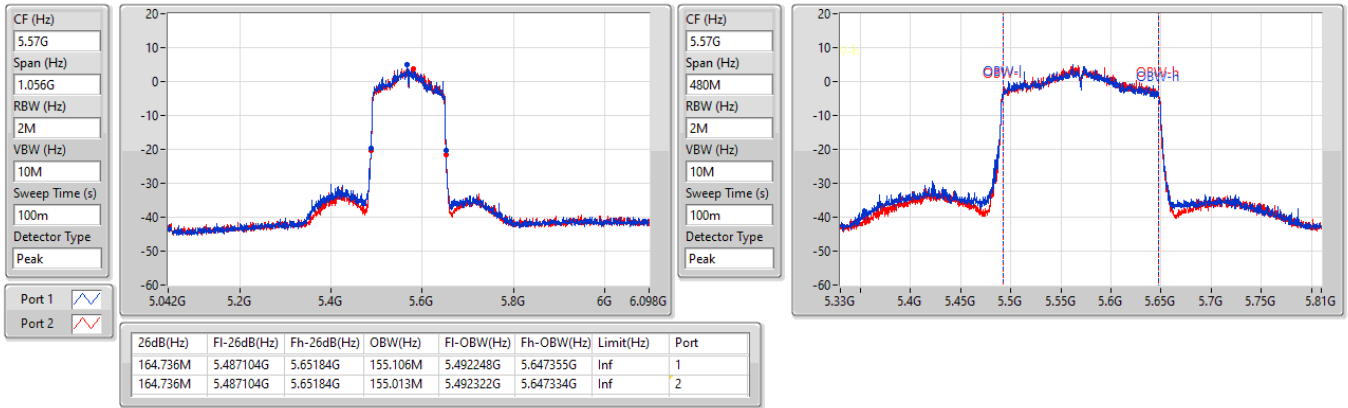
5250MHz Straddle 5.25-5.35GHz



5.47-5.725GHz_802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

5570MHz



Non-beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.02	0.20045	28.12	0.64863
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	22.85	0.19275	27.95	0.62373
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	21.61	0.14488	26.71	0.46881
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	16.45	0.04416	21.55	0.14289
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	11.58	0.01439	16.68	0.04656
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	18.62	0.07278	25.02	0.31769
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	18.99	0.07925	25.39	0.34594
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	21.65	0.14622	28.05	0.63826
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	16.46	0.04426	22.86	0.19320
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	11.36	0.01368	17.76	0.05970
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	17.60	0.05754	24.80	0.30200
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	18.20	0.06607	25.40	0.34674
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	21.16	0.13062	28.36	0.68549
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	22.52	0.17865	29.72	0.93756
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	12.52	0.01786	19.72	0.09376
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.07	0.20277	30.27	1.06414
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	22.92	0.19588	30.12	1.02802
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	22.78	0.18967	29.98	0.99541
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	20.76	0.11912	27.96	0.62517

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	5.10	18.32	19.14	21.76	30.00	26.86	36.00
5200MHz	Pass	5.10	19.36	20.32	22.88	30.00	27.98	36.00
5240MHz	Pass	5.10	19.62	20.37	23.02	30.00	28.12	36.00
5260MHz	Pass	6.40	15.31	15.63	18.48	23.22	24.88	29.62
5300MHz	Pass	6.40	15.46	15.75	18.62	23.25	25.02	29.65
5320MHz	Pass	6.40	15.36	15.62	18.50	23.20	24.90	29.60
5500MHz	Pass	7.20	14.41	14.71	17.57	22.42	24.77	29.62
5580MHz	Pass	7.20	14.32	14.85	17.60	22.44	24.80	29.64
5700MHz	Pass	7.20	14.37	14.63	17.51	22.40	24.71	29.60
5720MHz Straddle 5.47-5.725GHz	Pass	7.20	14.04	14.94	17.52	21.34	24.72	28.54
5720MHz Straddle 5.725-5.85GHz	Pass	7.20	5.86	6.63	9.27	28.80	16.47	36.00
5745MHz	Pass	7.20	19.65	20.03	22.85	28.80	30.05	36.00
5785MHz	Pass	7.20	19.45	20.12	22.81	28.80	30.01	36.00
5825MHz	Pass	7.20	19.67	20.42	23.07	28.80	30.27	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5180MHz	Pass	5.10	17.23	17.91	20.59	30.00	25.69	36.00
5200MHz	Pass	5.10	19.31	20.12	22.74	30.00	27.84	36.00
5240MHz	Pass	5.10	19.53	20.13	22.85	30.00	27.95	36.00
5260MHz	Pass	6.40	15.76	16.04	18.91	23.60	25.31	30.00
5300MHz	Pass	6.40	15.85	16.11	18.99	23.60	25.39	30.00
5320MHz	Pass	6.40	15.66	15.93	18.81	23.60	25.21	30.00
5500MHz	Pass	7.20	14.83	15.23	18.04	22.80	25.24	30.00
5580MHz	Pass	7.20	14.92	15.45	18.20	22.80	25.40	30.00
5700MHz	Pass	7.20	15.02	15.26	18.15	22.80	25.35	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.20	14.19	14.98	17.61	21.54	24.81	28.74
5720MHz Straddle 5.725-5.85GHz	Pass	7.20	6.72	7.52	10.15	28.80	17.35	36.00
5745MHz	Pass	7.20	19.66	20.15	22.92	28.80	30.12	36.00
5785MHz	Pass	7.20	19.45	20.16	22.83	28.80	30.03	36.00
5825MHz	Pass	7.20	19.58	20.17	22.90	28.80	30.10	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5190MHz	Pass	5.10	14.32	14.77	17.56	30.00	22.66	36.00
5230MHz	Pass	5.10	18.21	18.95	21.61	30.00	26.71	36.00
5270MHz	Pass	6.40	18.33	18.93	21.65	23.60	28.05	30.00
5310MHz	Pass	6.40	14.03	14.22	17.14	23.60	23.54	30.00
5510MHz	Pass	7.20	13.16	13.45	16.32	22.80	23.52	30.00
5590MHz	Pass	7.20	17.32	18.05	20.71	22.80	27.91	30.00
5670MHz	Pass	7.20	16.64	17.26	19.97	22.80	27.17	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.20	17.99	18.31	21.16	22.80	28.36	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	7.20	6.06	6.45	9.27	28.80	16.47	36.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5755MHz	Pass	7.20	19.25	19.53	22.40	28.80	29.60	36.00
5795MHz	Pass	7.20	19.51	20.02	22.78	28.80	29.98	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5210MHz	Pass	5.10	13.25	13.63	16.45	30.00	21.55	36.00
5290MHz	Pass	6.40	13.42	13.47	16.46	23.60	22.86	30.00
5530MHz	Pass	7.20	12.57	12.69	15.64	22.80	22.84	30.00
5610MHz	Pass	7.20	17.23	17.79	20.53	22.80	27.73	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.20	19.28	19.73	22.52	22.80	29.72	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	7.20	3.69	3.97	6.84	28.80	14.04	36.00
5775MHz	Pass	7.20	17.55	17.95	20.76	28.80	27.96	36.00
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.10	8.72	8.41	11.58	30.00	16.68	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	6.40	8.18	8.52	11.36	23.60	17.76	30.00
5570MHz	Pass	7.20	9.45	9.57	12.52	22.80	19.72	30.00

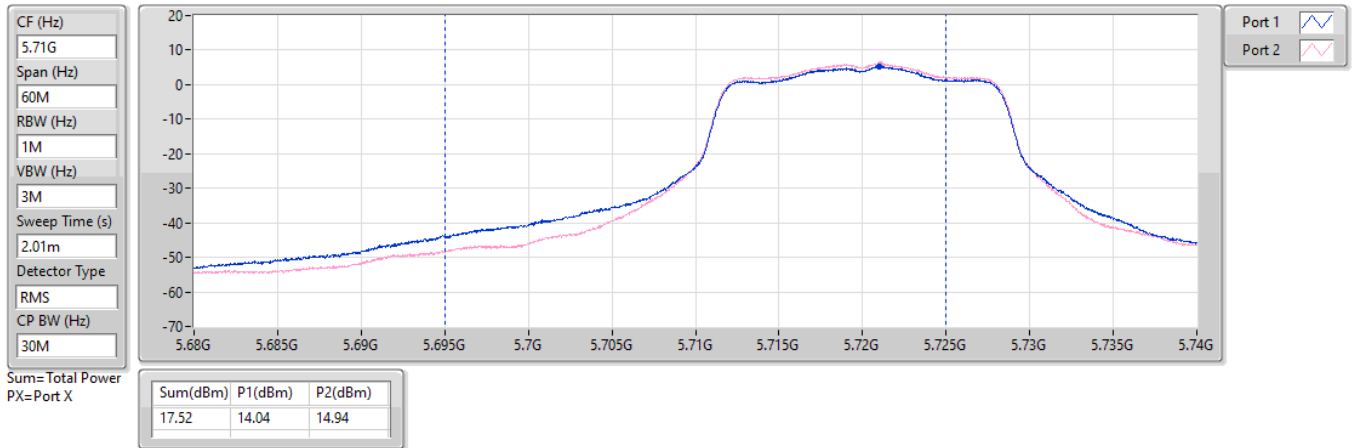
DG = Directional Gain; Port X = Port X output power



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

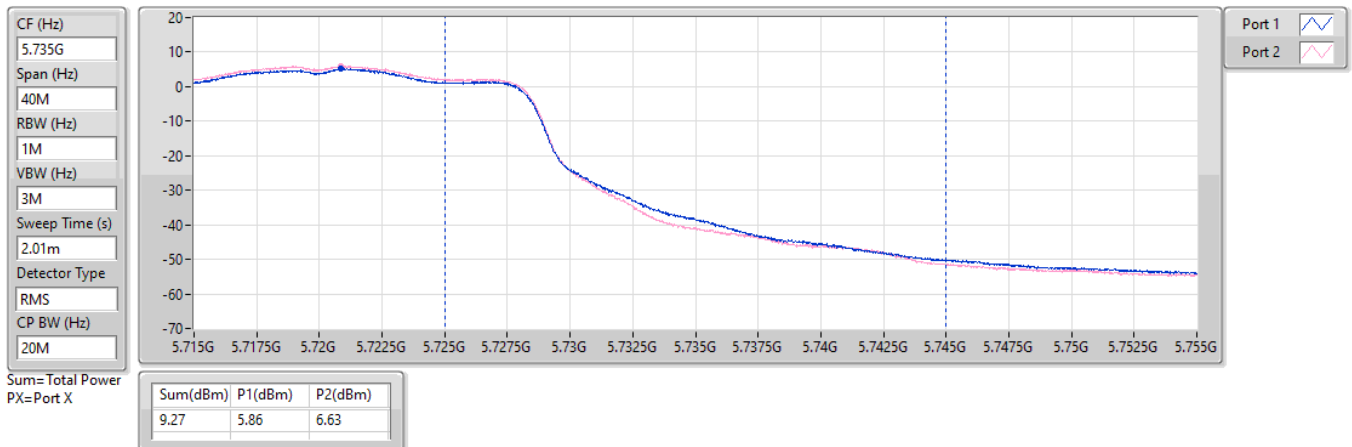
5720MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

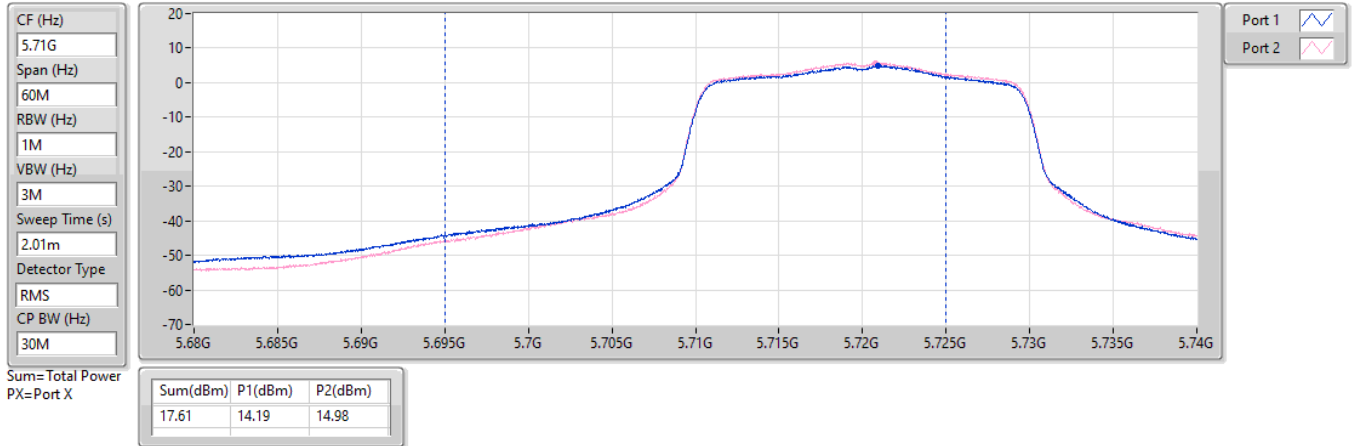




5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

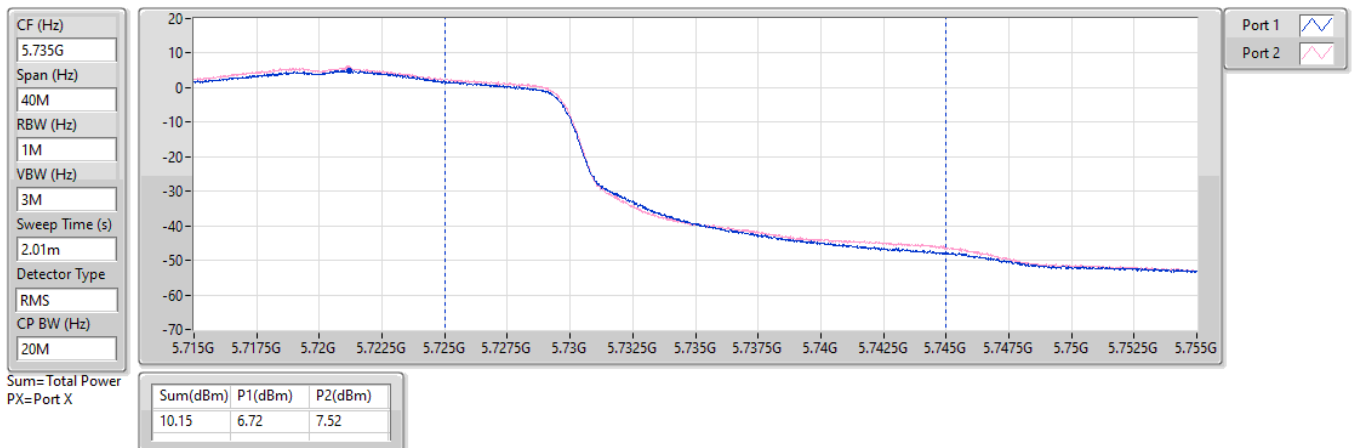
5720MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz_TX

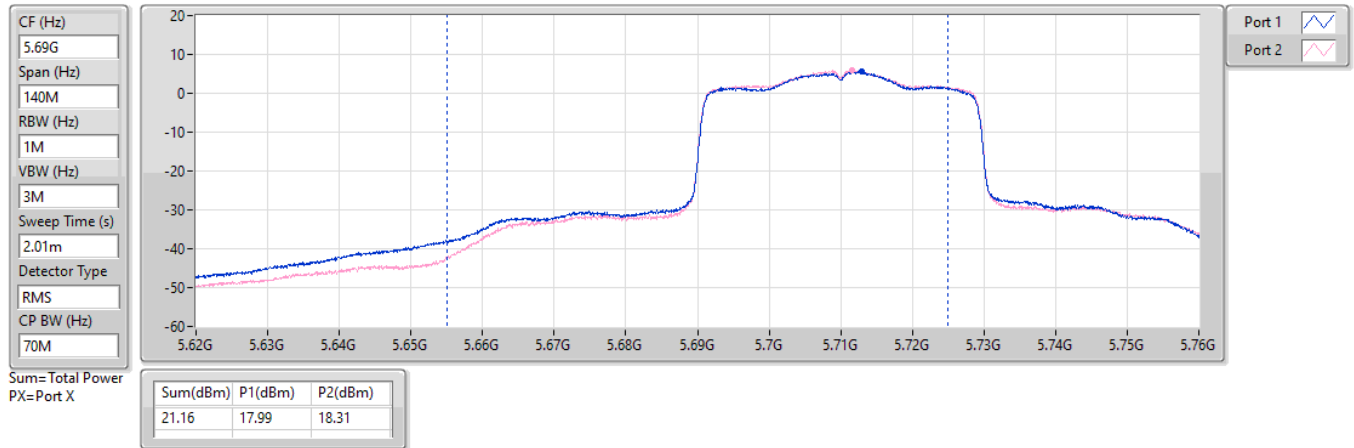




5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

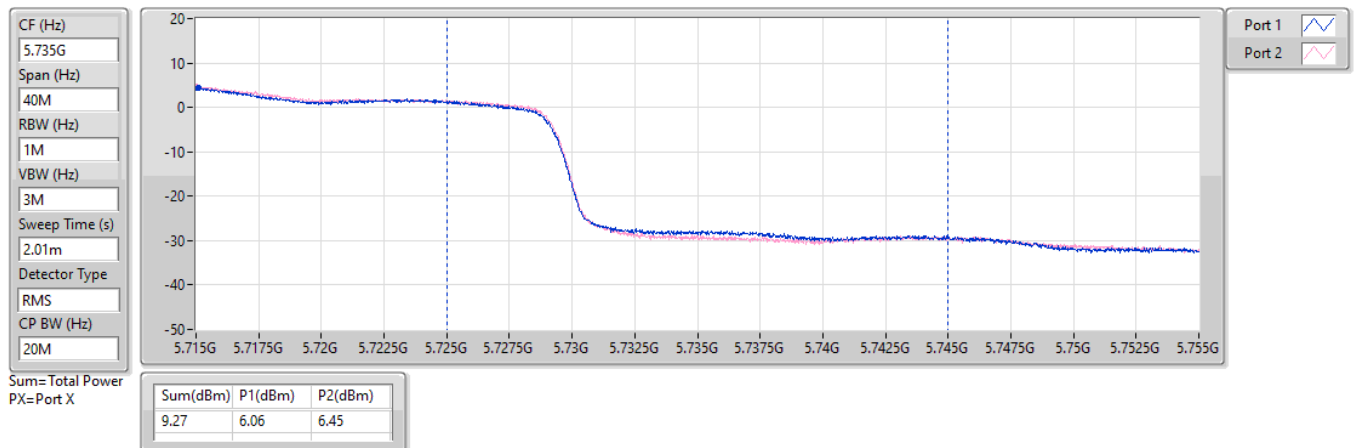
5710MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

5710MHz Straddle 5.725-5.85GHz_TX

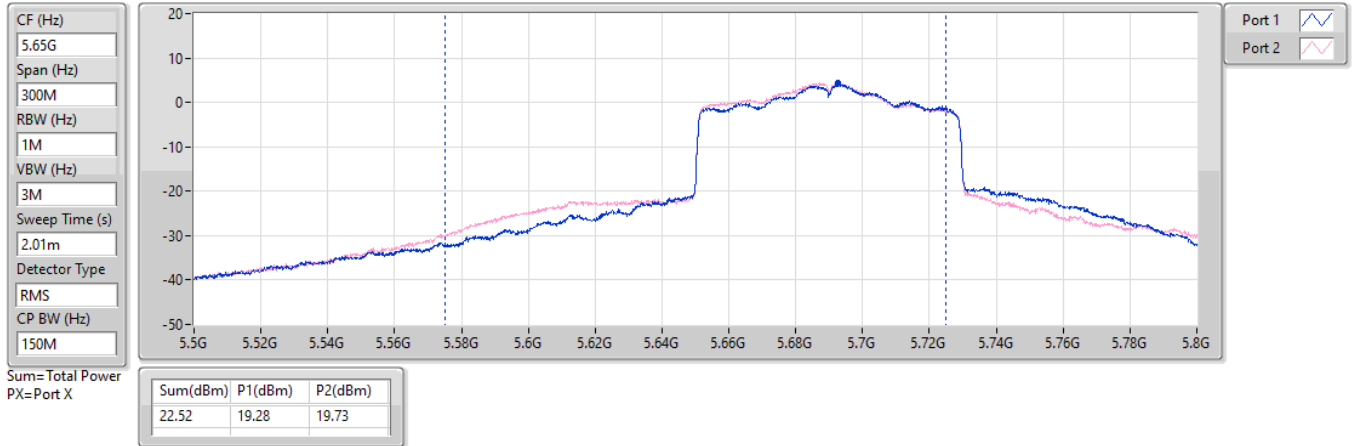




5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

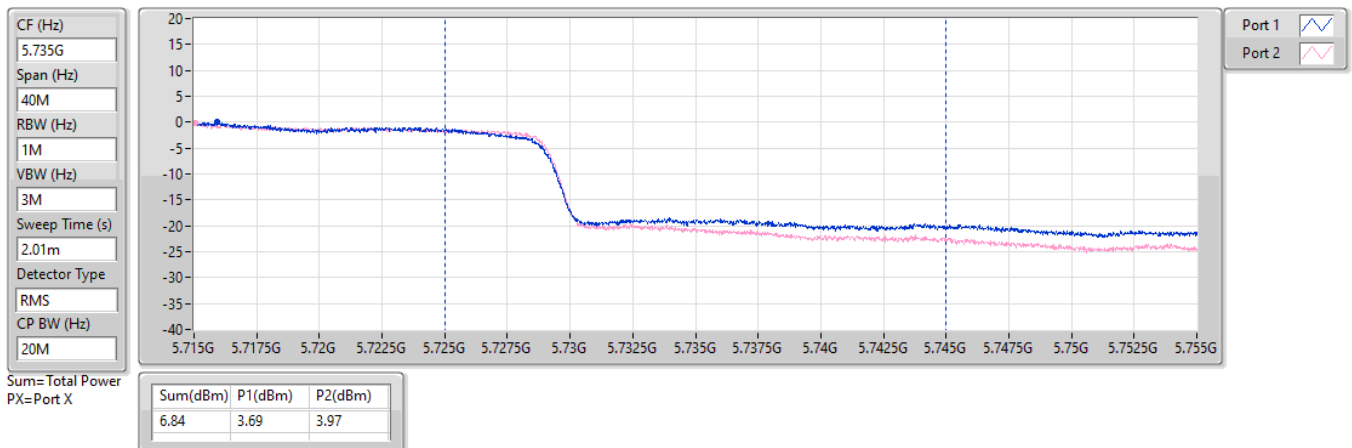
5690MHz Straddle 5.47-5.725GHz_TX



5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TX

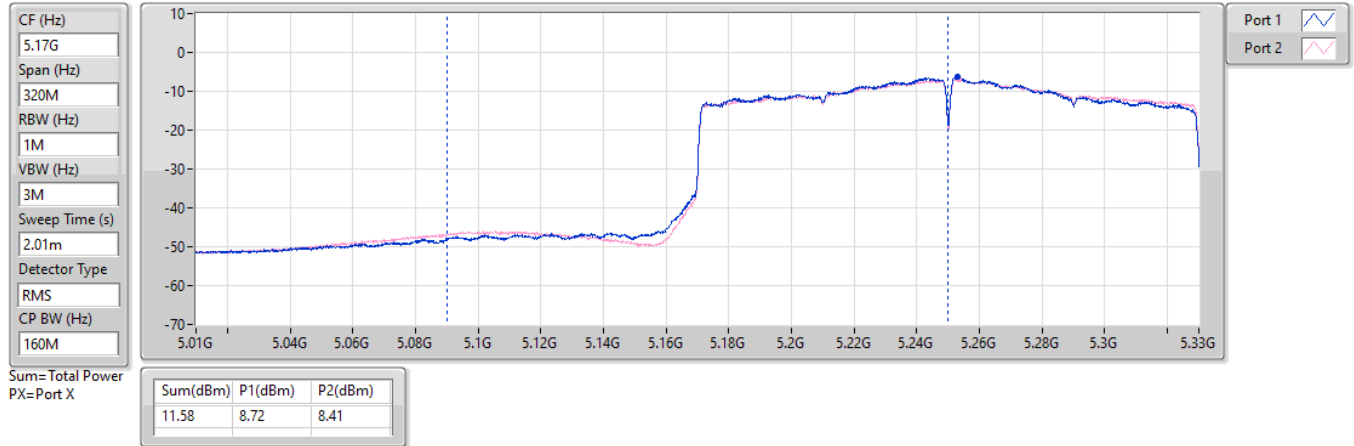




5.15-5.25GHz_802.11ax HEW160_Nss1,(MCS0)_2TX

AV Power

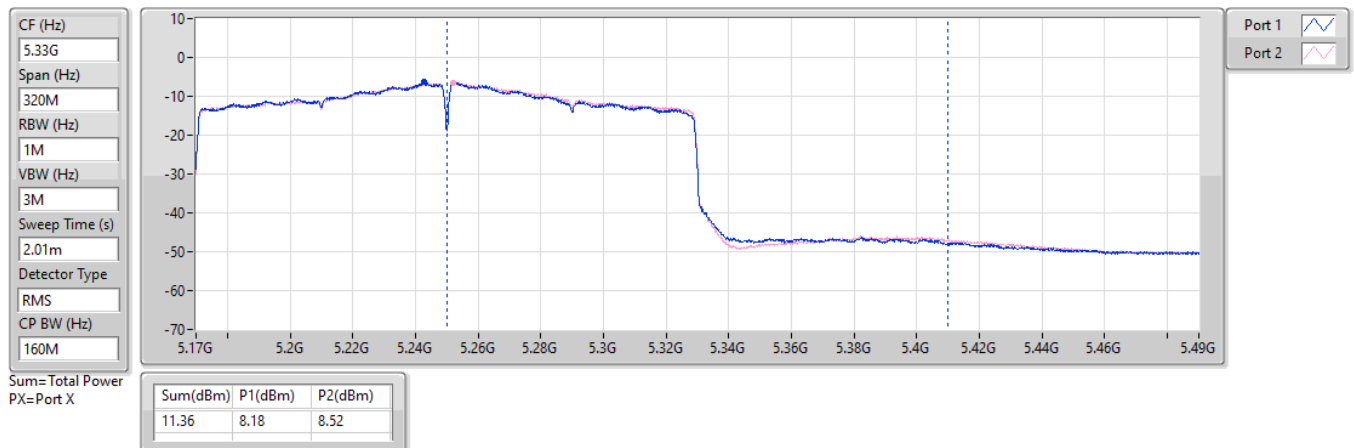
5250MHz Straddle 5.15-5.25GHz_TX



5.25-5.35GHz_802.11ax HEW160_Nss1,(MCS0)_2TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TX



Beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	19.84	0.09638	27.90	0.61660
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	18.60	0.07244	26.66	0.46345
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	13.44	0.02208	21.50	0.14125
802.11ax HEW160-BF_Nss1,(MCS0)_2TX-OFDMA	8.57	0.00719	16.63	0.04603
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	15.98	0.03963	24.86	0.30620
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	18.64	0.07311	27.52	0.56494
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	13.45	0.02213	22.33	0.17100
802.11ax HEW160-BF_Nss1,(MCS0)_2TX-OFDMA	8.35	0.00684	17.23	0.05284
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	15.19	0.03304	24.96	0.31333
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	18.15	0.06531	27.92	0.61944
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	19.51	0.08933	29.28	0.84723
802.11ax HEW160-BF_Nss1,(MCS0)_2TX-OFDMA	9.51	0.00893	19.28	0.08472
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	19.91	0.09795	29.63	0.91833
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	19.77	0.09484	29.49	0.88920
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	17.75	0.05957	27.47	0.55847



Conducted Output Power(Average)

Appendix B.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5180MHz	Pass	8.06	14.22	14.9	17.58	27.94	25.64	36.00
5200MHz	Pass	8.06	16.3	17.11	19.73	27.94	27.79	36.00
5240MHz	Pass	8.06	16.52	17.12	19.84	27.94	27.90	36.00
5260MHz	Pass	8.88	12.75	13.03	15.90	21.12	24.78	30.00
5300MHz	Pass	8.88	12.84	13.1	15.98	21.12	24.86	30.00
5320MHz	Pass	8.88	12.65	12.92	15.80	21.12	24.68	30.00
5500MHz	Pass	9.77	11.82	12.22	15.03	20.23	24.80	30.00
5580MHz	Pass	9.77	11.91	12.44	15.19	20.23	24.96	30.00
5700MHz	Pass	9.77	12.01	12.25	15.14	20.23	24.91	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.77	11.18	11.97	14.60	18.97	24.37	28.74
5720MHz Straddle 5.725-5.85GHz	Pass	9.72	3.71	4.51	7.14	26.28	16.86	36.00
5745MHz	Pass	9.72	16.65	17.14	19.91	26.28	29.63	36.00
5785MHz	Pass	9.72	16.44	17.15	19.82	26.28	29.54	36.00
5825MHz	Pass	9.72	16.57	17.16	19.89	26.28	29.61	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5190MHz	Pass	8.06	11.31	11.76	14.55	27.94	22.61	36.00
5230MHz	Pass	8.06	15.2	15.94	18.60	27.94	26.66	36.00
5270MHz	Pass	8.88	15.32	15.92	18.64	21.12	27.52	30.00
5310MHz	Pass	8.88	11.02	11.21	14.13	21.12	23.01	30.00
5510MHz	Pass	9.77	10.15	10.44	13.31	20.23	23.08	30.00
5590MHz	Pass	9.77	14.31	15.04	17.70	20.23	27.47	30.00
5670MHz	Pass	9.77	13.63	14.25	16.96	20.23	26.73	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	9.77	14.98	15.3	18.15	20.23	27.92	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	9.72	3.05	3.44	6.26	26.28	15.98	36.00
5755MHz	Pass	9.72	16.24	16.52	19.39	26.28	29.11	36.00
5795MHz	Pass	9.72	16.5	17.01	19.77	26.28	29.49	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5210MHz	Pass	8.06	10.24	10.62	13.44	27.94	21.50	36.00
5290MHz	Pass	8.88	10.41	10.46	13.45	21.12	22.33	30.00
5530MHz	Pass	9.77	9.56	9.68	12.63	20.23	22.40	30.00
5610MHz	Pass	9.77	14.22	14.78	17.52	20.23	27.29	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	9.77	16.27	16.72	19.51	20.23	29.28	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	9.72	0.68	0.96	3.83	26.28	13.55	36.00
5775MHz	Pass	9.72	14.54	14.94	17.75	26.28	27.47	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	8.06	5.71	5.4	8.57	27.94	16.63	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	8.88	5.17	5.51	8.35	21.12	17.23	30.00
5570MHz	Pass	9.77	6.44	6.56	9.51	20.23	19.28	30.00



Conducted Output Power(Average)

Appendix B.2

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

$$\text{Directional Gain} = 10 \log [(10^{G1/20} + 10^{G2/20})^2 / N_{\text{ANT}}]$$

Antenna	Antenna Gain (dBi)			
	5150 ~ 5250 MHz	5250 ~ 5350 MHz	5470 ~ 5725 MHz	5725 ~ 5850 MHz
1	5	6.4	7.2	7.2
2	5.1	5.3	6.3	6.2
Directional Gain	8.06	8.88	9.77	9.72
Power Limit*	27.94	21.12	20.23	26.28

Note: Power limit is reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	12.45	20.51
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	11.89	19.95
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	7.85	15.91
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	-0.24	7.82
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	-5.33	2.73
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	7.93	16.81
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	7.81	16.69
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	7.74	16.62
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	-0.18	8.70
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	-5.10	3.78
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	7.11	16.88
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	7.01	16.78
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	7.12	16.89
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	5.78	15.55
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	-7.61	2.16
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.16	20.88
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	10.26	19.98
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	7.11	16.83
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	2.63	12.35

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.06	7.73	8.35	11.03	14.94	19.09	23.00
5200MHz	Pass	8.06	9.13	9.65	12.39	14.94	20.45	23.00
5240MHz	Pass	8.06	9.12	9.74	12.45	14.94	20.51	23.00
5260MHz	Pass	8.88	4.65	5.14	7.91	8.12	16.79	17.00
5300MHz	Pass	8.88	4.83	5.03	7.93	8.12	16.81	17.00
5320MHz	Pass	8.88	4.74	5.03	7.84	8.12	16.72	17.00
5500MHz	Pass	9.77	3.8	4.04	6.88	7.23	16.65	17.00
5580MHz	Pass	9.77	3.98	4.14	6.98	7.23	16.75	17.00
5700MHz	Pass	9.77	3.95	3.98	6.92	7.23	16.69	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.77	3.71	4.47	7.11	7.23	16.88	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	9.72	-1.69	-0.94	1.69	26.28	11.41	36.00
5745MHz	Pass	9.72	7.79	8.24	11.01	26.28	20.73	36.00
5785MHz	Pass	9.72	7.68	8.32	11.01	26.28	20.73	36.00
5825MHz	Pass	9.72	7.64	8.65	11.16	26.28	20.88	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5180MHz	Pass	8.06	5.94	7.01	9.50	14.94	17.56	23.00
5200MHz	Pass	8.06	8.63	9.25	11.89	14.94	19.95	23.00
5240MHz	Pass	8.06	8.58	9.11	11.81	14.94	19.87	23.00
5260MHz	Pass	8.88	4.74	4.75	7.72	8.12	16.60	17.00
5300MHz	Pass	8.88	4.69	5.04	7.81	8.12	16.69	17.00
5320MHz	Pass	8.88	4.57	4.88	7.70	8.12	16.58	17.00
5500MHz	Pass	9.77	3.57	4.1	6.85	7.23	16.62	17.00
5580MHz	Pass	9.77	3.86	4.22	7.01	7.23	16.78	17.00
5700MHz	Pass	9.77	3.86	4.14	6.91	7.23	16.68	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	9.77	3.49	4.38	6.93	7.23	16.70	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	9.72	-1.56	-0.85	1.81	26.28	11.53	36.00
5745MHz	Pass	9.72	7.01	7.46	10.20	26.28	19.92	36.00
5785MHz	Pass	9.72	6.98	7.39	10.17	26.28	19.89	36.00
5825MHz	Pass	9.72	6.95	7.72	10.26	26.28	19.98	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5190MHz	Pass	8.06	0.52	0.82	3.61	14.94	11.67	23.00
5230MHz	Pass	8.06	4.71	5.18	7.85	14.94	15.91	23.00
5270MHz	Pass	8.88	4.45	5.03	7.74	8.12	16.62	17.00
5310MHz	Pass	8.88	0.27	0.25	3.27	8.12	12.15	17.00
5510MHz	Pass	9.77	-0.45	-0.07	2.65	7.23	12.42	17.00
5590MHz	Pass	9.77	4.02	4.10	6.94	7.23	16.71	17.00
5670MHz	Pass	9.77	2.87	3.26	6.00	7.23	15.77	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	9.77	3.95	4.37	7.12	7.23	16.89	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	9.72	-1.83	-1.60	1.19	26.28	10.91	36.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5755MHz	Pass	9.72	3.58	4.50	7.04	26.28	16.76	36.00
5795MHz	Pass	9.72	3.79	4.50	7.11	26.28	16.83	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5210MHz	Pass	8.06	-3.41	-2.93	-0.24	14.94	7.82	23.00
5290MHz	Pass	8.88	-3.07	-3.18	-0.18	8.12	8.70	17.00
5530MHz	Pass	9.77	-4.33	-4.25	-1.44	7.23	8.33	17.00
5610MHz	Pass	9.77	0.63	1.41	3.97	7.23	13.74	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	9.77	2.41	3.10	5.78	7.23	15.55	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	9.72	-4.57	-3.99	-1.41	26.28	8.31	36.00
5775MHz	Pass	9.72	-0.45	-0.02	2.63	26.28	12.35	36.00
802.11ax HEW160_Nss1,(MCS0)_2TX-OFDMA	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	8.06	-8.31	-8.37	-5.33	14.94	2.73	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	8.88	-7.81	-8.16	-5.10	8.12	3.78	17.00
5570MHz	Pass	9.77	-10.39	-10.53	-7.61	7.23	2.16	17.00

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

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

DG = Directional Gain, Directional Gain = $10 \log [(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$

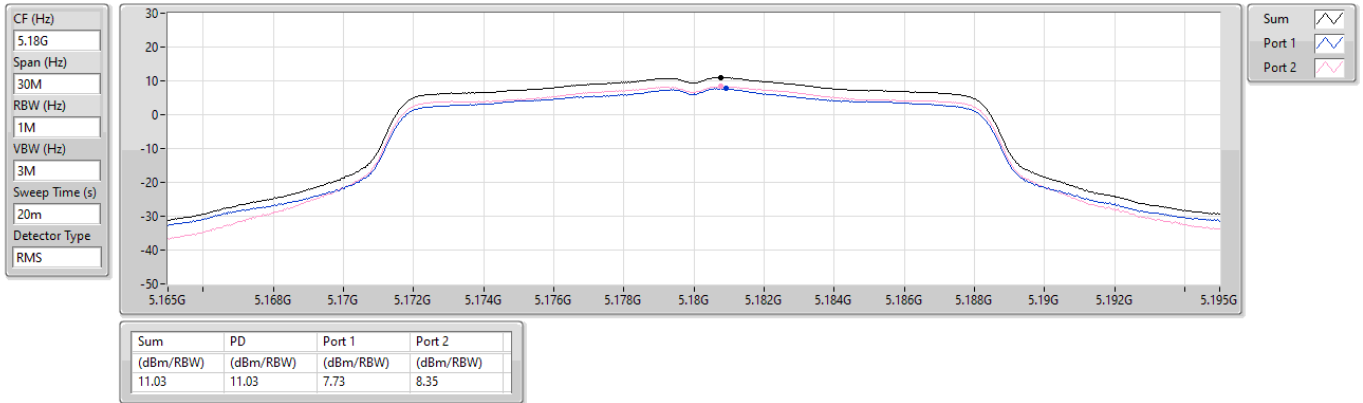
Antenna	Antenna Gain (dBi)			
	5150 ~ 5250 MHz	5250 ~ 5350 MHz	5470 ~ 5725 MHz	5725 ~ 5850 MHz
1	5	6.4	7.2	7.2
2	5.1	5.3	6.3	6.2
Directional Gain	8.06	8.88	9.77	9.72
PD Limit*	14.94	8.12	7.23	26.28

Note: PD limit is reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz



5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

