FCC Test Report

FCC ID	:	**I8811AXAP246E**
Equipment	:	**802.11ax (WiFi 6E) Dual-Radio Unified Pro Access Point** **(Refer to item 1.1.1 for more details)**
Model No.	:	**WAX620D-6E** **(Refer to item 1.1.1 for more details)**
Brand Name	:	**ZYXEL**
Applicant	:	**Zyxel Communications Corporation**
Address	:	**No.2 Industry East RD. IX, Hsinchu Science Park, Hsinchu 30075, Taiwan, R.O.C**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**May 17, 2022**
Tested Date	:	**May 20 ~ Jun. 15, 2022**

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
FR251702AN	Rev. 01	Initial issue	Jul. 20, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.159MHz 52.45 (Margin -13.07dB) - QP	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 23140.00MHz 68.09 (Margin -0.11dB) - 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: 28.52 5250~5350MHz: 23.84 5470~5725MHz: 23.67 5725~5850MHz: 28.38 ***Beamforming mode*** 5150~5250MHz: 22.50 5250~5350MHz: 17.82 5470~5725MHz: 17.65 5725~5850MHz: 22.36	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 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
ZYXEL	WAX620D-6E	802.11ax (WiFi 6E) Dual-Radio Unified Pro Access Point	-
ZYXEL	NWA220AX-6E	802.11ax (WiFi 6E) Dual-Radio PoE Access Point	Software difference
✦ The above models, model **WAX620D-6E** was selected as a representative one for the final test and only its data was recorded in this report.			

1.1.2 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]	4	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	4	MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	4	MCS 0-9
5150-5250 5250-5350 5500-5700	ac (VHT160)	5250 5570	50 [1] 114 [1]	4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	4	MCS 0-11
5150-5250 5250-5350 5500-5700	ax (HE160)	5250 5570	50 [1] 114 [1]	4	MCS 0-11
Note: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.					

1.1.3 Antenna Details

Ant. No.	Brand / Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				Remark
				5150~5250	5250~5350	5470~5725	5725~5850	
1	MSTC / P4	PIFA	UFL	3.75	4.02	5.07	4.44	Ceiling mounted: Antenna 4 / 6 / 7 / 8 Wall mounted: Antenna 5 / 7 / 8 / 9
2	MSTC / P5	PIFA	UFL	3.76	3.56	5.25	4.54	
3	MSTC / P6	PIFA	UFL	3.94	4.4	4.54	3.9	
4	MSTC / P7	PIFA	UFL	3.86	3.76	3.89	3.91	
5	MSTC / P8	PIFA	UFL	3.94	3.64	4.58	3.73	
6	MSTC / P9	PIFA	UFL	3.65	3.22	3.05	3.25	

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from AC adapter 56Vdc from POE

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

1.1.5 Accessories

N/A

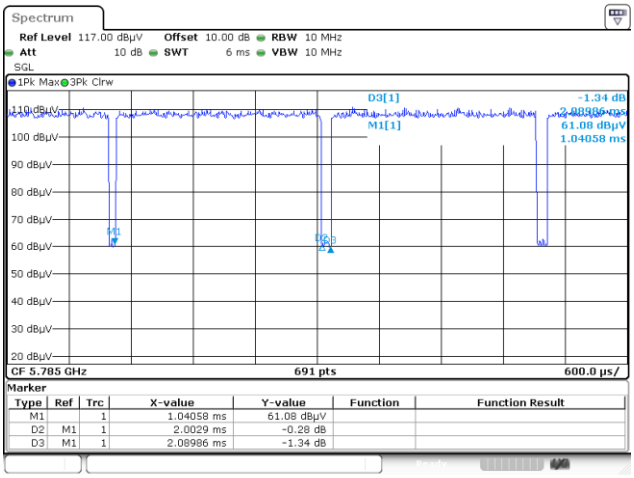
1.1.6 Channel List

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	---	---

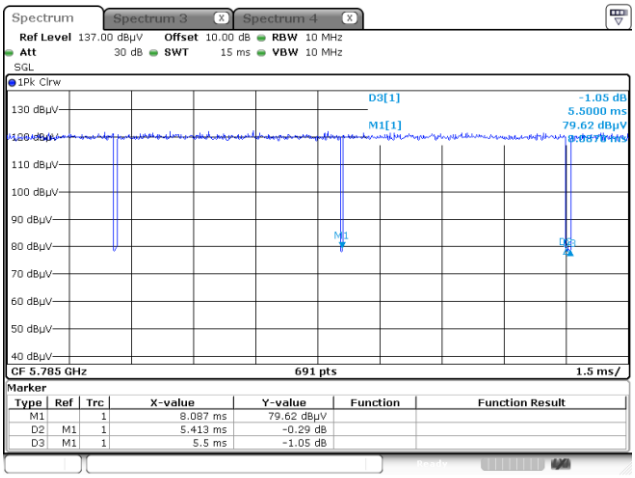
1.1.7 Test Tool and Duty Cycle

Test Tool	QPSR, Version: V5.0-00200		
Duty Cycle and Duty Factor	**Mode**	**Duty Cycle (%)**	**Duty Factor (dB)**
	11a	95.84%	0.18
	ax HE20	98.42%	0.07
	ax HE40	97.16%	0.13
	ax HE80	95.21%	0.21
	ax HE160	95.54%	0.20

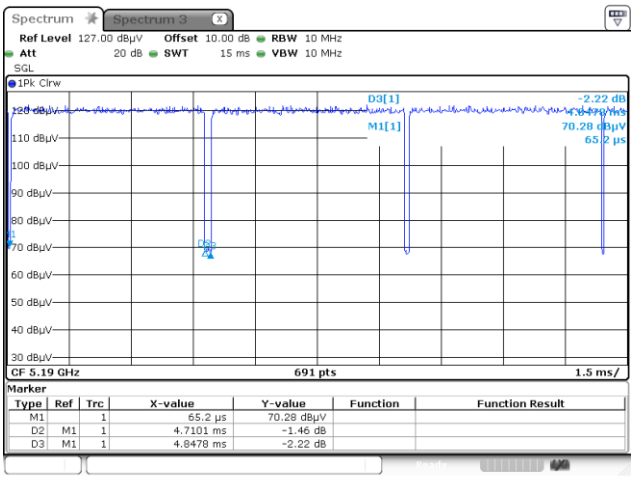
11a



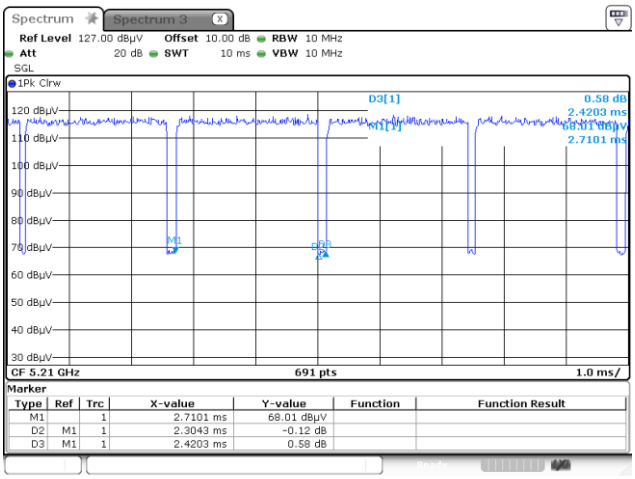
ax HE20

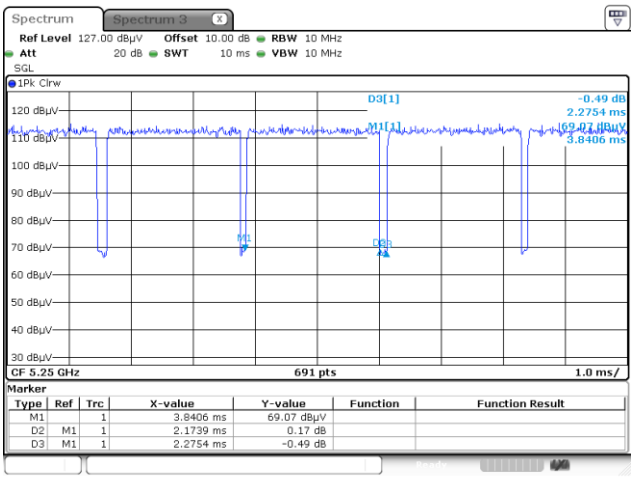


ax HE40



ax HE80



ax HE160	---
 Spectrum Spectrum 3 Ref Level 127.00 dBµV Offset 10.00 dB RBW 10 MHz Att 20 dB SWT 10 ms VBW 10 MHz SGL 1Pk Clrw D3[1] -0.49 dB 2.2754 ms M1[1] 69.07 dBµV 3.8406 ms 120 dBµV 110 dBµV 100 dBµV 90 dBµV 80 dBµV 70 dBµV 60 dBµV 50 dBµV 40 dBµV 30 dBµV M1 D3 CF 5.25 GHz 691 pts 1.0 ms/ Marker Type Ref Trc X-value Y-value Function Function Result M1 1 3.8406 ms 69.07 dBµV D2 M1 1 2.1739 ms 0.17 dB D3 M1 1 2.2754 ms -0.49 dB	---

1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	16
11a	5200	18
11a	5240	18.5
11a	5260	12
11a	5300	12
11a	5320	12
11a	5500	12
11a	5580	12
11a	5700	12
11a	5745	20
11a	5785	20
11a	5825	20
ax HE20	5180	17
ax HE20	5200	19.5
ax HE20	5240	22
ax HE20	5260	16.5
ax HE20	5300	16.5
ax HE20	5320	16.5
ax HE20	5500	16.5
ax HE20	5580	16.5
ax HE20	5700	16.5
ax HE20	5745	21.5
ax HE20	5785	21
ax HE20	5825	20.5

Modulation Mode	Test Frequency (MHz)	Power Index
ax HE40	5190	13.5
ax HE40	5230	19
ax HE40	5270	16.5
ax HE40	5310	14
ax HE40	5510	14.5
ax HE40	5590	16.5
ax HE40	5670	16.5
ax HE40	5755	22
ax HE40	5795	22
ax HE80	5210	12.5
ax HE80	5290	13
ax HE80	5530	14
ax HE80	5610	16.5
ax HE80	5775	19
ax HE160	5250 (5.15-5.25GHz)	12.5
ax HE160	5250 (5.25-5.35GHz)	12.5
ax HE160	5570	13.5

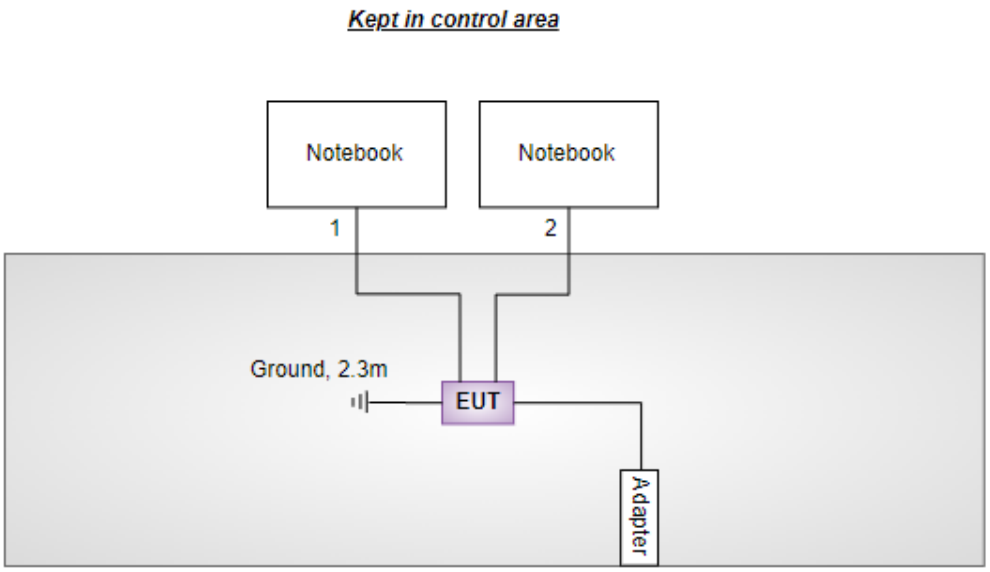
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5720	12
ax HE20	5720	16.5
ax HE40	5710	17
ax HE80	5690	17

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E5470	DoC	---
2	Notebook	DELL	Latitude 5400	DoC	---
3	POE	ZYXEL	PoE12-60W	---	Remarks: I/P: 100-240Vac, 50-60Hz, 2.0A O/P: 56.0Vdc, 1.161A (Provided by applicant.)
4	Adapter	APD	WA-30P12R	---	Remarks: I/P: 100-240Vac, 50-60Hz, 0.9A O/P: 12Vdc, 2.5A (Provided by applicant.)

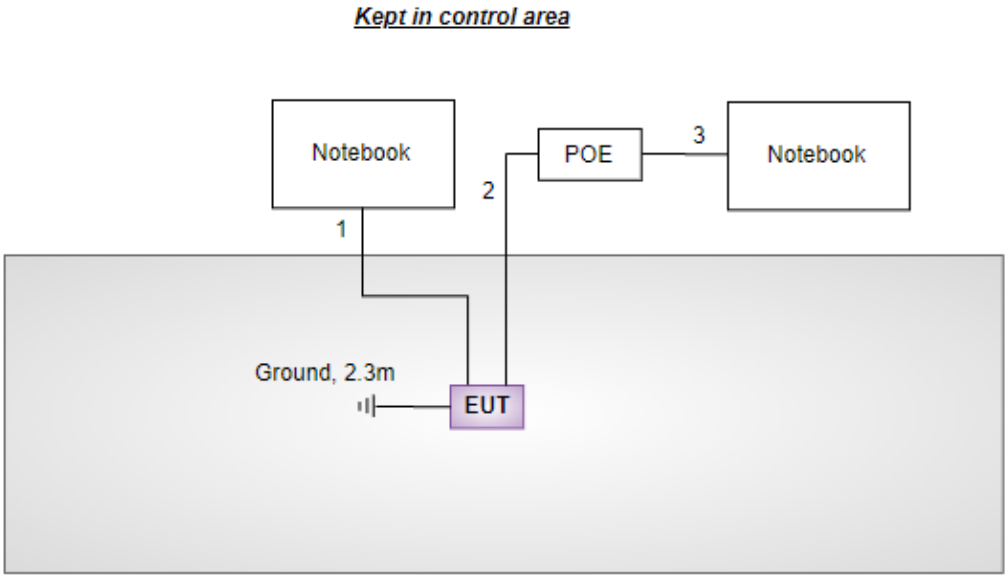
1.3 Test Setup Chart

Test Setup Diagram (Adapter Mode)



No.	Signal cable / Length (m)
1-2	RJ45, 10m non-shielded.

Test Setup Diagram (POE Mode)



No.	Signal cable / Length (m)
1-2	RJ45, 10m non-shielded.
2	RJ45, 1.3m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jun. 15, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	01	May 10, 2022	May 09, 2023
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	May 20 ~ Jun. 07, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101499	Mar. 08, 2022	Mar. 07, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 2022
Preamplifier	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 24, 2021	Sep. 23, 2022
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 24, 2021	Sep. 23, 2022
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 24, 2021	Sep. 23, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 24, 2021	Sep. 23, 2022
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	Jun. 01 ~ Jun. 15, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GTH-150-40-CP-AR-T	MAA1407-012	Sep. 08, 2021	Sep. 07, 2022
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Nov. 08, 2021	Nov. 07, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10.7.20	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 ≤ 1GHz	±3.96 dB
Unwanted Emission > 1GHz	±4.51 dB
Time	±0.1%
Temperature	±0.4 ^{o}C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-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.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- 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	ax HE20	5240	MCS 0	1, 2
Unwanted Emissions ≤1GHz	ax HE20	5240	MCS 0	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	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	ax HE80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	ax HE160	5250 / 5570	MCS 0	
Frequency Stability	Un-modulation	5300	---	1
Beamforming mode				
Conducted Output Power	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	1
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	1
	ax HE80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	1
	ax HE160	5250 / 5570	MCS 0	1

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.
2. 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	ax HE40	5755	MCS 0	1, 2
Unwanted Emissions ≤1GHz	ax HE40	5755	MCS 0	1, 2
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	1
	ax HE20	5745 / 5785 / 5825	MCS 0	
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	1
Beamforming mode				
Conducted Output Power	ax HE20	5745 / 5785 / 5825	MCS 0	1
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.
2. 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.

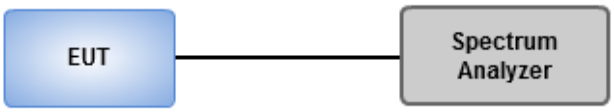
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW ≥ 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	24°C / 67%	**Tested By**	Roger Lu

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

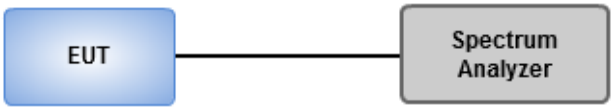
Method PM-G (Measurement using a gated RF average power meter)

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	24°C / 67%	**Tested By**	Roger Lu

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 ≥ 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 ≥ 10 * (number of points in sweep) * (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

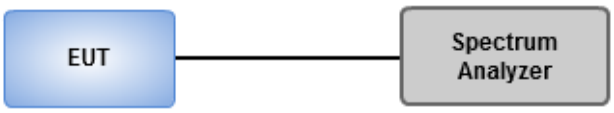
Duty cycle ≥ 98 %

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 ≥ 10 * (number of points in sweep) * (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	24°C / 67%	**Tested By**	Roger Lu

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

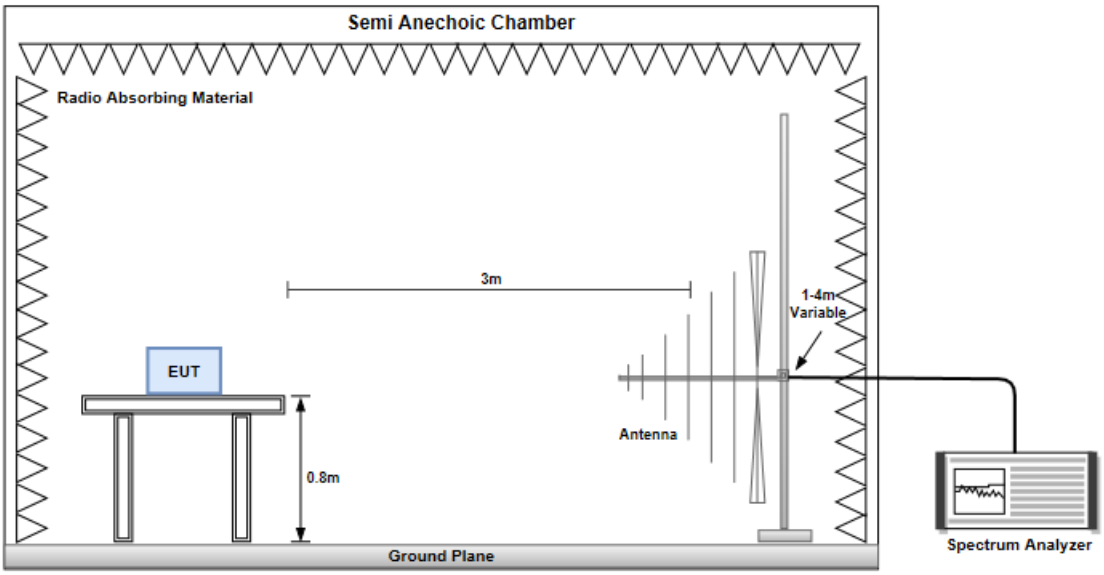
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

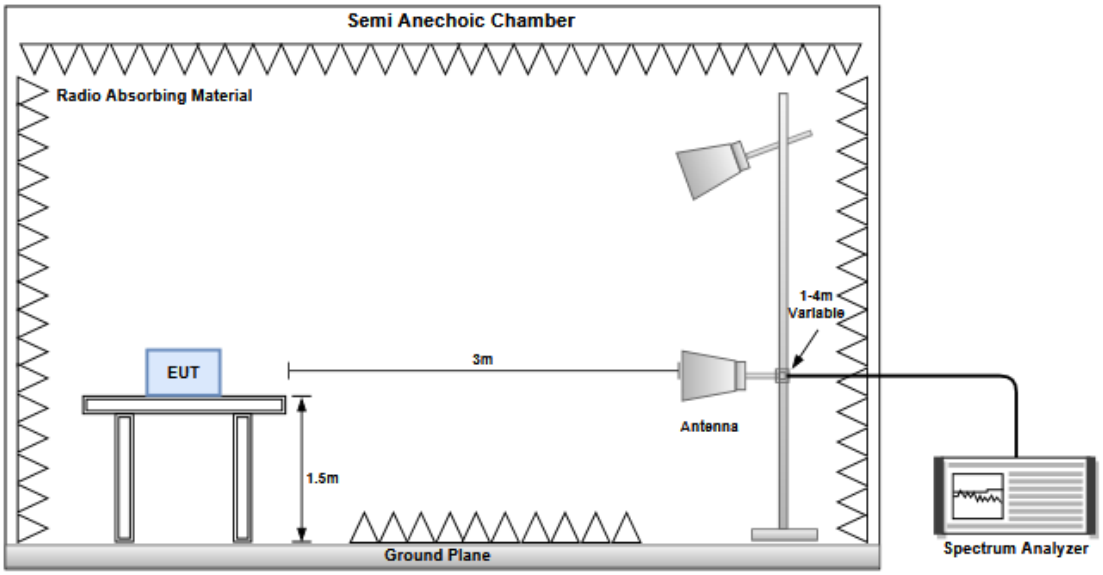
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

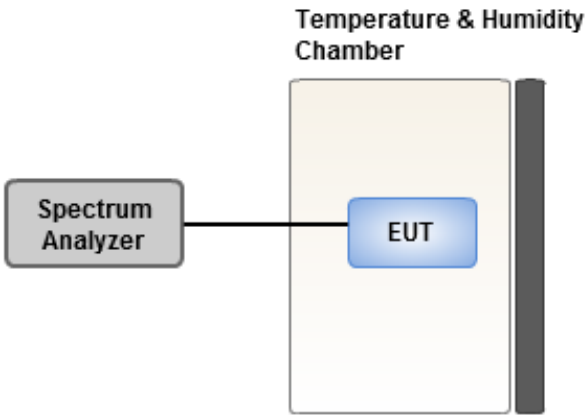
3.5.1 Limit of Frequency Stability

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	24°C / 67%	**Tested By**	Roger Lu

Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

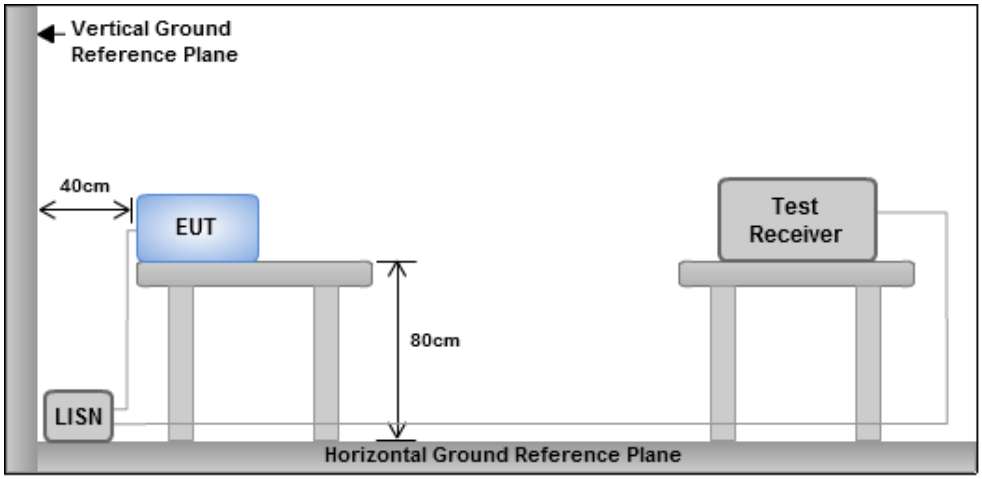
3.6.1 Limit of AC Power Line Conducted Emissions

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 333, 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)_4TX	21.21M	16.762M	16M8D1D	20.1M	16.612M
802.11ax HEW20_Nss4,(MCS0)_4TX	42.66M	19.79M	19M8D1D	21.6M	19.07M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.98M	38.021M	38M0D1D	40.32M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.92M	77.481M	77M5D1D	81.84M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	82.64M	77.961M	78M0D1D	82.24M	77.961M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.49M	16.672M	16M7D1D	20.1M	16.612M
802.11ax HEW20_Nss4,(MCS0)_4TX	22.17M	19.13M	19M1D1D	21.57M	19.07M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.62M	37.841M	37M8D1D	40.08M	37.721M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.56M	77.361M	77M4D1D	81.6M	77.241M
802.11ax HEW160_Nss4,(MCS0)_4TX	82.64M	77.961M	78M0D1D	82M	77.801M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21M	16.672M	16M7D1D	15.12M	13.358M
802.11ax HEW20_Nss4,(MCS0)_4TX	22.23M	19.16M	19M2D1D	15.675M	14.558M
802.11ax HEW40_Nss4,(MCS0)_4TX	40.68M	37.841M	37M8D1D	35.035M	33.723M
802.11ax HEW80_Nss4,(MCS0)_4TX	82.92M	77.481M	77M5D1D	75.975M	73.163M
802.11ax HEW160_Nss4,(MCS0)_4TX	164.88M	155.202M	155MD1D	163.92M	154.963M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	16.822M	16M8D1D	3.14M	3.538M
802.11ax HEW20_Nss4,(MCS0)_4TX	19.05M	19.46M	19M5D1D	4.46M	4.618M
802.11ax HEW40_Nss4,(MCS0)_4TX	37.68M	39.94M	39M9D1D	3.94M	4.138M
802.11ax HEW80_Nss4,(MCS0)_4TX	76.8M	77.721M	77M7D1D	3.98M	4.258M

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

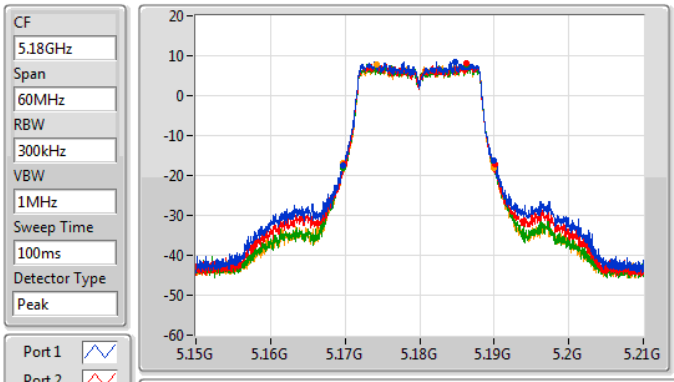
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.16M	16.672M	20.31M	16.672M	20.19M	16.642M	20.22M	16.642M
5200MHz	Pass	Inf	20.76M	16.702M	20.58M	16.672M	20.1M	16.642M	20.28M	16.642M
5240MHz	Pass	Inf	21.21M	16.762M	20.97M	16.732M	20.52M	16.672M	20.16M	16.612M
5260MHz	Pass	Inf	20.28M	16.672M	20.19M	16.642M	20.19M	16.642M	20.16M	16.612M
5300MHz	Pass	Inf	20.19M	16.672M	20.34M	16.642M	20.16M	16.642M	20.43M	16.612M
5320MHz	Pass	Inf	20.25M	16.672M	20.22M	16.672M	20.49M	16.642M	20.1M	16.612M
5500MHz	Pass	Inf	20.25M	16.672M	21M	16.642M	20.31M	16.642M	20.16M	16.612M
5580MHz	Pass	Inf	20.25M	16.672M	20.64M	16.642M	20.46M	16.642M	20.13M	16.612M
5700MHz	Pass	Inf	20.58M	16.672M	20.58M	16.642M	20.97M	16.672M	20.4M	16.612M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.33M	13.388M	15.255M	13.373M	15.12M	13.373M	15.135M	13.358M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.578M	3.14M	3.598M	3.14M	3.578M	3.14M	3.538M
5745MHz	Pass	500k	16.32M	16.822M	16.32M	16.822M	16.35M	16.732M	16.32M	16.732M
5785MHz	Pass	500k	16.32M	16.762M	16.32M	16.762M	16.32M	16.732M	16.35M	16.732M
5825MHz	Pass	500k	16.32M	16.732M	16.32M	16.702M	16.32M	16.732M	16.32M	16.702M
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.05M	19.1M	21.81M	19.13M	21.72M	19.07M	21.81M	19.13M
5200MHz	Pass	Inf	23.82M	19.19M	22.74M	19.22M	21.63M	19.16M	21.6M	19.13M
5240MHz	Pass	Inf	42.66M	19.7M	41.76M	19.79M	30.24M	19.34M	29.52M	19.31M
5260MHz	Pass	Inf	21.78M	19.13M	22.17M	19.13M	21.6M	19.1M	21.87M	19.13M
5300MHz	Pass	Inf	21.75M	19.1M	22.11M	19.13M	21.57M	19.1M	21.84M	19.13M
5320MHz	Pass	Inf	21.78M	19.13M	21.84M	19.13M	21.63M	19.07M	21.72M	19.1M
5500MHz	Pass	Inf	21.99M	19.1M	21.93M	19.13M	21.87M	19.07M	21.75M	19.1M
5580MHz	Pass	Inf	21.81M	19.1M	21.96M	19.13M	21.6M	19.1M	22.11M	19.1M
5700MHz	Pass	Inf	21.87M	19.1M	22.23M	19.16M	21.75M	19.13M	22.02M	19.1M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.9M	14.558M	16.245M	14.603M	15.885M	14.558M	15.675M	14.558M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.618M	4.56M	4.638M	4.5M	4.638M	4.46M	4.638M
5745MHz	Pass	500k	19.05M	19.4M	19.02M	19.46M	19.02M	19.25M	18.99M	19.43M
5785MHz	Pass	500k	19.02M	19.22M	19.05M	19.28M	18.93M	19.19M	19.02M	19.31M
5825MHz	Pass	500k	18.99M	19.13M	18.99M	19.22M	18.99M	19.13M	18.99M	19.25M
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.38M	37.841M	40.68M	37.781M	40.56M	37.781M	40.38M	37.721M
5230MHz	Pass	Inf	40.98M	37.961M	40.44M	38.021M	40.56M	37.901M	40.32M	37.781M
5270MHz	Pass	Inf	40.5M	37.781M	40.08M	37.841M	40.26M	37.781M	40.5M	37.721M
5310MHz	Pass	Inf	40.62M	37.781M	40.44M	37.781M	40.32M	37.841M	40.44M	37.841M
5510MHz	Pass	Inf	40.44M	37.781M	40.32M	37.781M	40.2M	37.781M	40.32M	37.781M
5590MHz	Pass	Inf	40.62M	37.841M	40.5M	37.841M	40.68M	37.841M	40.26M	37.781M
5670MHz	Pass	Inf	40.32M	37.841M	40.32M	37.781M	40.38M	37.781M	40.26M	37.841M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.035M	33.723M	35.175M	33.793M	35.315M	33.758M	35.245M	33.793M

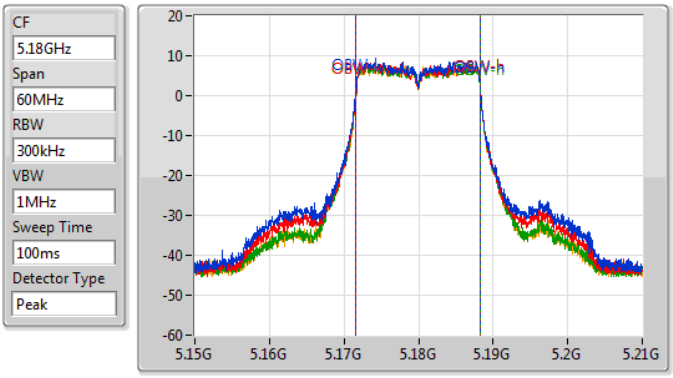
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	4.138M	3.94M	4.138M	4.12M	4.158M	3.96M	4.138M
5755MHz	Pass	500k	37.68M	38.861M	37.32M	39.22M	36.78M	38.561M	37.38M	39.52M
5795MHz	Pass	500k	37.32M	38.501M	37.5M	38.621M	36.66M	38.621M	36.72M	39.94M
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.32M	77.481M	82.92M	77.481M	81.84M	77.241M	82.08M	77.241M
5290MHz	Pass	Inf	82.08M	77.361M	82.08M	77.241M	81.6M	77.361M	82.56M	77.241M
5530MHz	Pass	Inf	82.92M	77.481M	82.68M	77.241M	81.84M	77.481M	82.44M	77.241M
5610MHz	Pass	Inf	82.56M	77.361M	82.56M	77.361M	81.84M	77.241M	82.2M	77.481M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.425M	73.163M	75.975M	73.238M	75.975M	73.163M	76.125M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.278M	4.12M	4.418M	4.02M	4.258M	4.02M	4.318M
5775MHz	Pass	500k	75.6M	77.721M	74.4M	77.481M	76.8M	77.481M	76.32M	77.601M
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.64M	77.961M	82.24M	77.961M	82.4M	77.961M	82.4M	77.961M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.64M	77.881M	82M	77.961M	82.32M	77.801M	82.24M	77.881M
5570MHz	Pass	Inf	164.64M	155.202M	164.88M	154.963M	164.88M	154.963M	163.92M	154.963M

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

802.11a_Nss1,(6Mbps)_4TX EBW

5180MHz

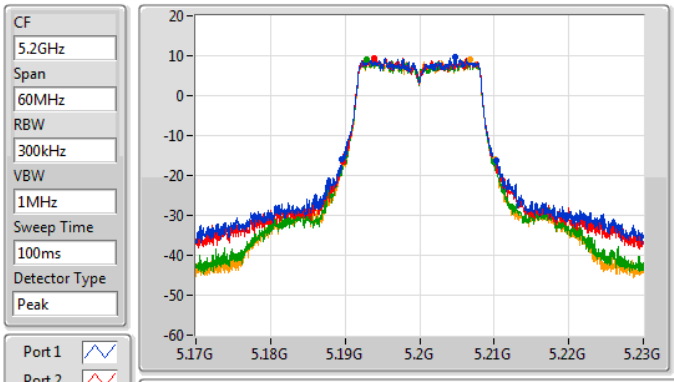


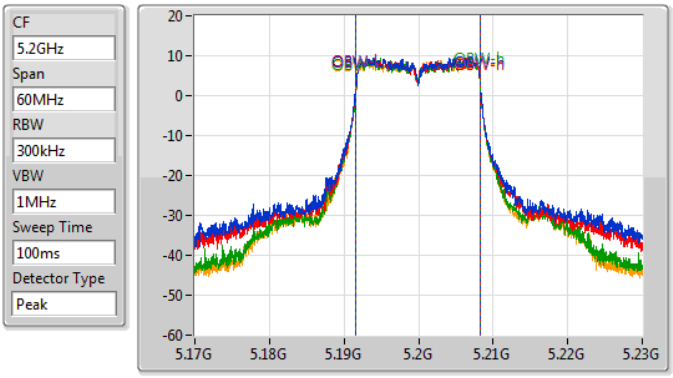


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.16M	5.16971G	5.18987G	16.672M	5.171604G	5.188276G	Inf	1
20.31M	5.16983G	5.19014G	16.672M	5.171604G	5.188276G	Inf	2
20.19M	5.1698G	5.18999G	16.642M	5.171634G	5.188276G	Inf	3
20.22M	5.16974G	5.18996G	16.642M	5.171634G	5.188276G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5200MHz

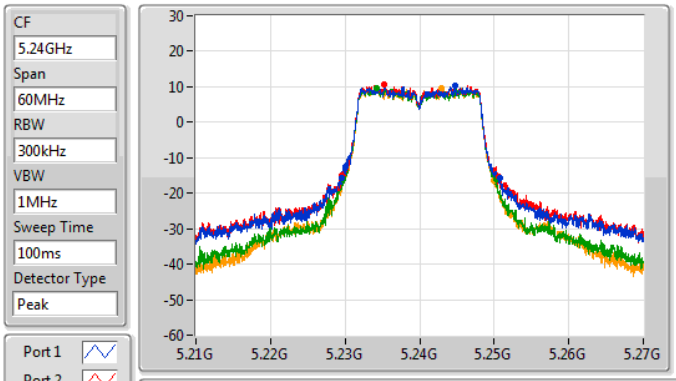


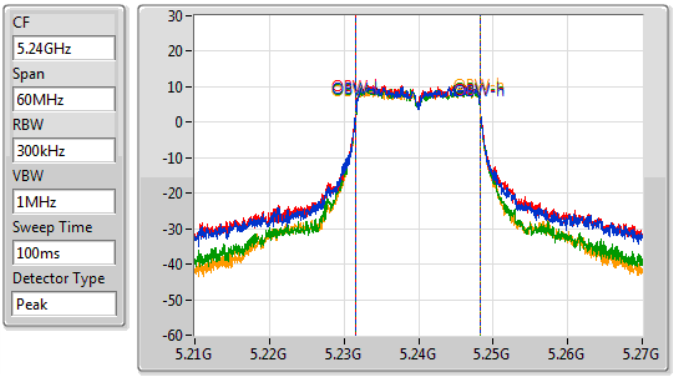


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.76M	5.18959G	5.21035G	16.702M	5.191574G	5.208276G	Inf	1
20.58M	5.18968G	5.21026G	16.672M	5.191604G	5.208276G	Inf	2
20.1M	5.18983G	5.20993G	16.642M	5.191604G	5.208246G	Inf	3
20.28M	5.18986G	5.21014G	16.642M	5.191634G	5.208276G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5240MHz

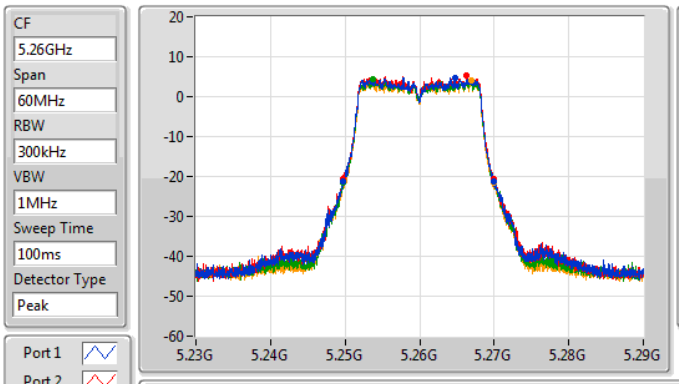


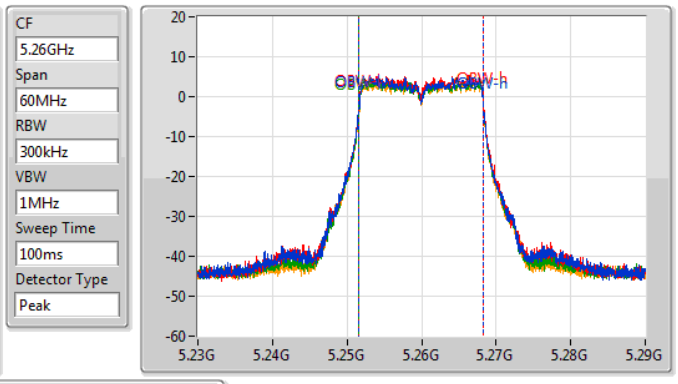


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.21M	5.2295G	5.25071G	16.762M	5.231544G	5.248306G	Inf	1
20.97M	5.22956G	5.25053G	16.732M	5.231574G	5.248306G	Inf	2
20.52M	5.22977G	5.25029G	16.672M	5.231604G	5.248276G	Inf	3
20.16M	5.22977G	5.24993G	16.612M	5.231634G	5.248246G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5260MHz

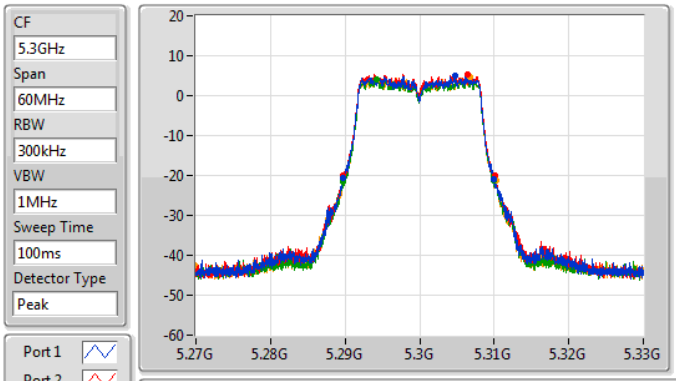


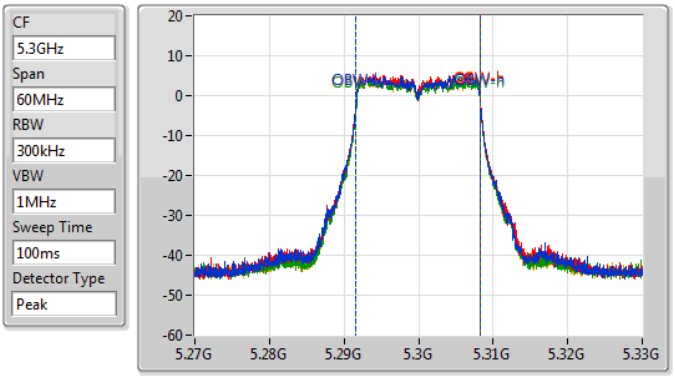


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.28M	5.24965G	5.26993G	16.672M	5.251604G	5.268276G	Inf	1
20.19M	5.24974G	5.26993G	16.642M	5.251634G	5.268276G	Inf	2
20.19M	5.24977G	5.26996G	16.642M	5.251634G	5.268276G	Inf	3
20.16M	5.2498G	5.26996G	16.612M	5.251634G	5.268246G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5300MHz

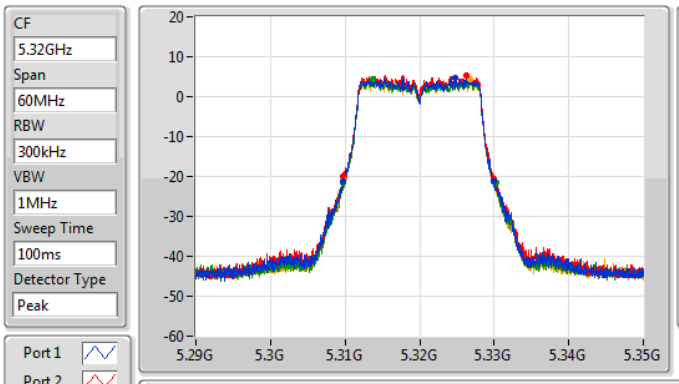


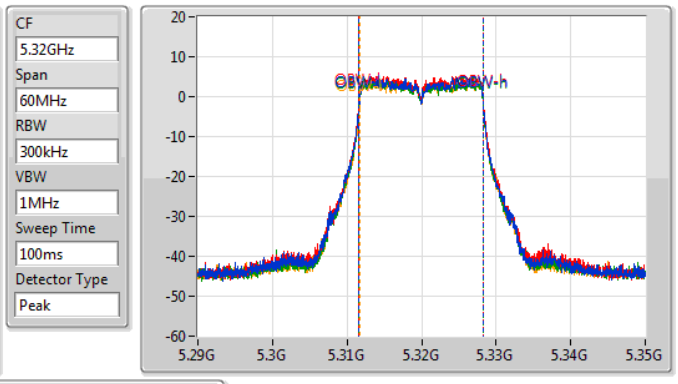


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.19M	5.28968G	5.30987G	16.672M	5.291604G	5.308276G	Inf	1
20.34M	5.28974G	5.31008G	16.642M	5.291634G	5.308276G	Inf	2
20.16M	5.28977G	5.30993G	16.642M	5.291634G	5.308276G	Inf	3
20.43M	5.28977G	5.3102G	16.612M	5.291634G	5.308246G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5320MHz

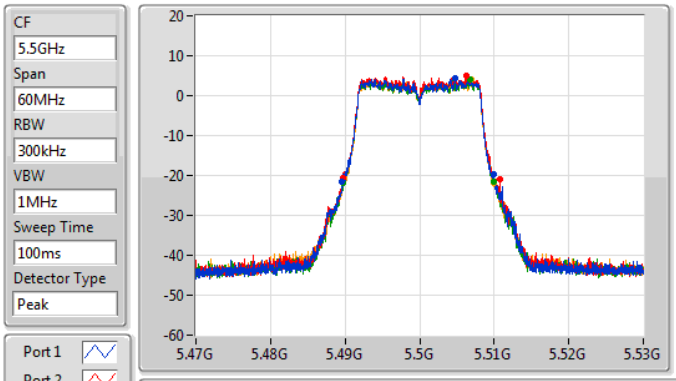


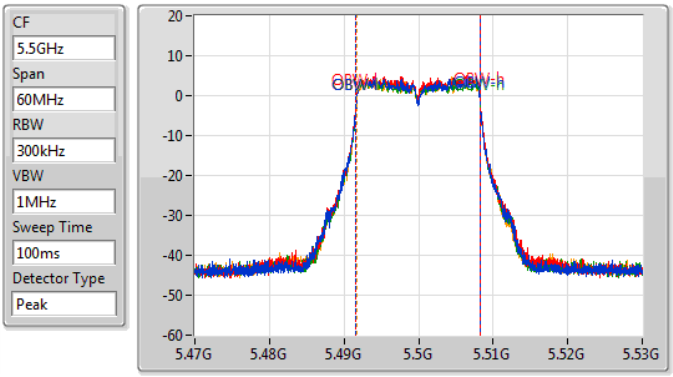


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.25M	5.30965G	5.3299G	16.672M	5.311604G	5.328276G	Inf	1
20.22M	5.30974G	5.32996G	16.672M	5.311604G	5.328276G	Inf	2
20.49M	5.3098G	5.33029G	16.642M	5.311634G	5.328276G	Inf	3
20.1M	5.30986G	5.32996G	16.612M	5.311664G	5.328276G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5500MHz

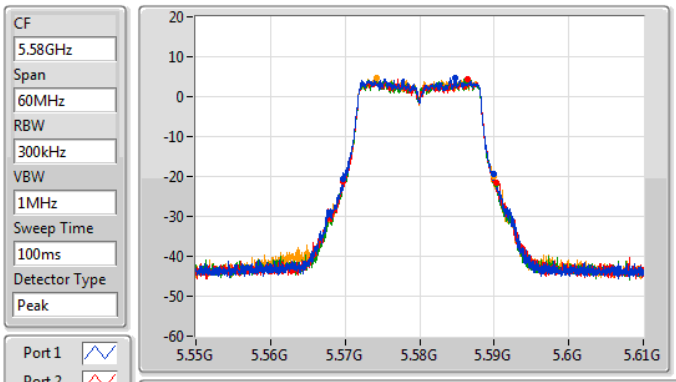


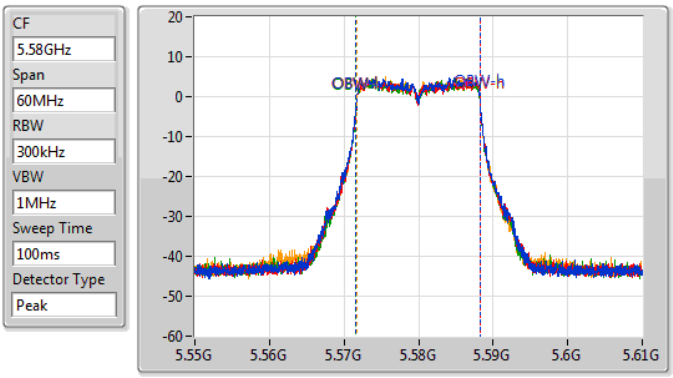


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.25M	5.48962G	5.50987G	16.672M	5.491604G	5.508276G	Inf	1
21M	5.48971G	5.51071G	16.642M	5.491634G	5.508276G	Inf	2
20.31M	5.48968G	5.50999G	16.642M	5.491634G	5.508276G	Inf	3
20.16M	5.4898G	5.50996G	16.612M	5.491664G	5.508276G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5580MHz

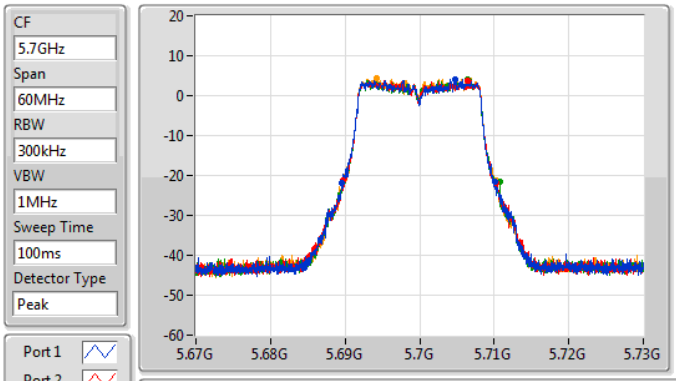


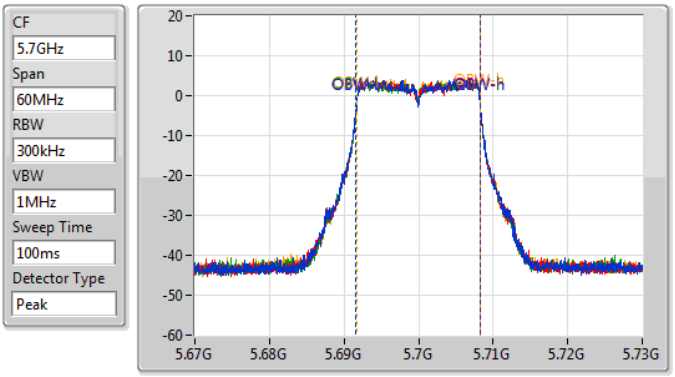


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.25M	5.56965G	5.5899G	16.672M	5.571604G	5.588276G	Inf	1
20.64M	5.56968G	5.59032G	16.642M	5.571634G	5.588276G	Inf	2
20.46M	5.56983G	5.59029G	16.642M	5.571634G	5.588276G	Inf	3
20.13M	5.5698G	5.58993G	16.612M	5.571664G	5.588276G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5700MHz

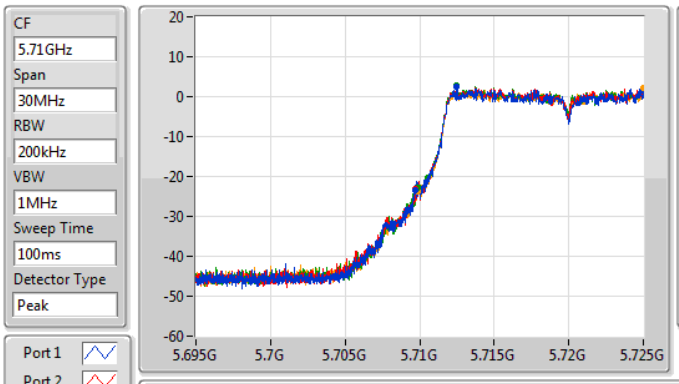


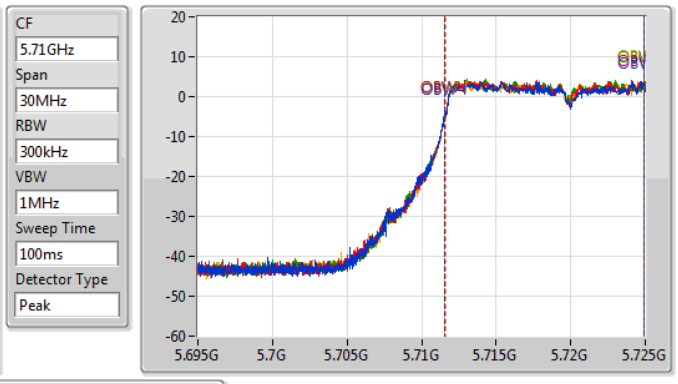


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.58M	5.68959G	5.71017G	16.672M	5.691604G	5.708276G	Inf	1
20.58M	5.68971G	5.71029G	16.642M	5.691634G	5.708276G	Inf	2
20.97M	5.68974G	5.71071G	16.672M	5.691634G	5.708306G	Inf	3
20.4M	5.6898G	5.7102G	16.612M	5.691664G	5.708276G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5720MHz Straddle 5.47-5.725GHz

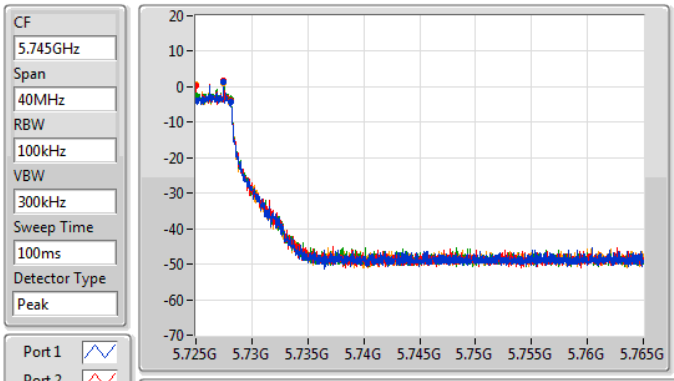


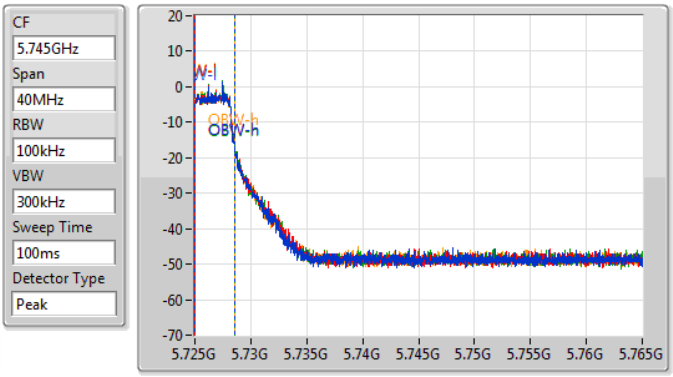


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.33M	5.70967G	5.725G	13.388M	5.711544G	5.724933G	Inf	1
15.255M	5.709745G	5.725G	13.373M	5.711559G	5.724933G	Inf	2
15.12M	5.70988G	5.725G	13.373M	5.711574G	5.724948G	Inf	3
15.135M	5.709865G	5.725G	13.358M	5.711589G	5.724948G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

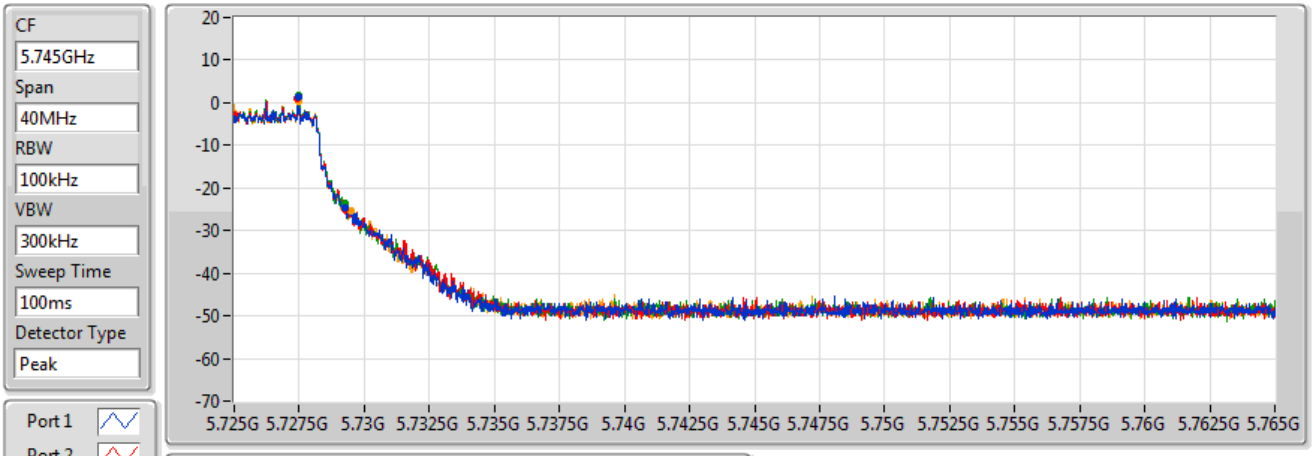




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.14M	5.725G	5.72814G	3.578M	5.72501G	5.728588G	500k	1
3.14M	5.725G	5.72814G	3.598M	5.72501G	5.728608G	500k	2
3.14M	5.725G	5.72814G	3.578M	5.72501G	5.728588G	500k	3
3.14M	5.725G	5.72814G	3.538M	5.72501G	5.728548G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

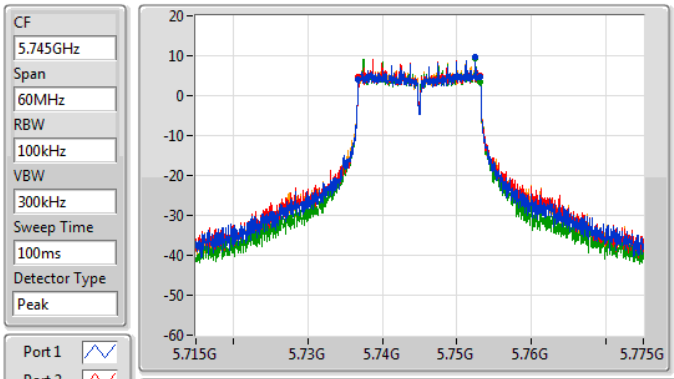
5720MHz Straddle 5.725-5.85GHz

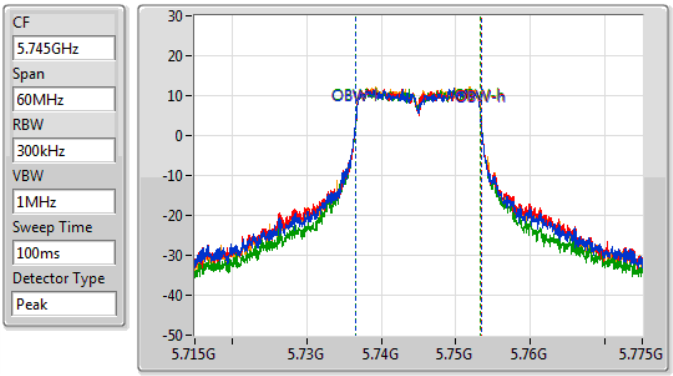


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.28M	5.725G	5.72928G	Inf	1
4.28M	5.725G	5.72928G	Inf	2
4.24M	5.725G	5.72924G	Inf	3
4.5M	5.725G	5.7295G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5745MHz

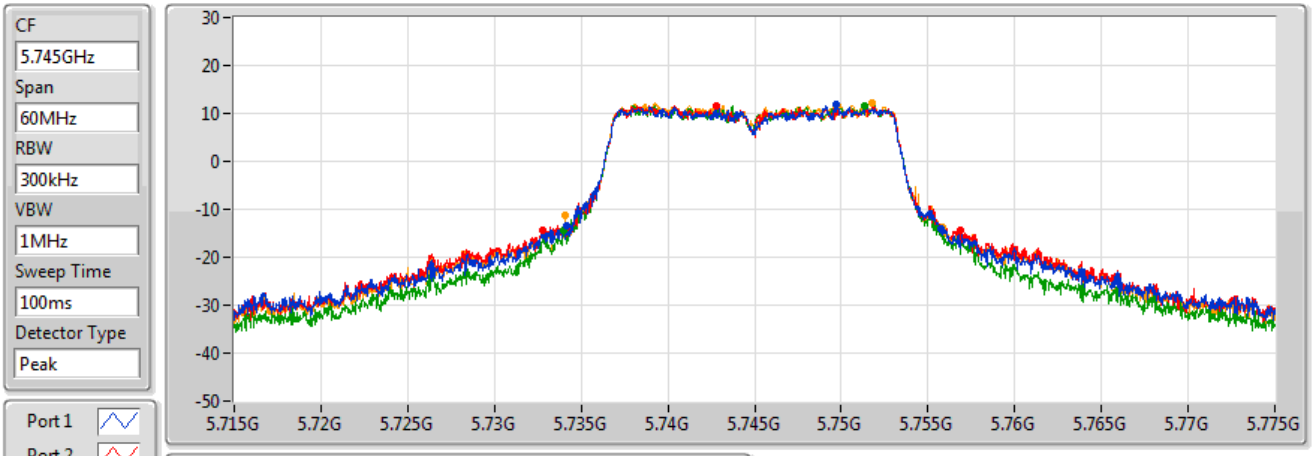




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.73681G	5.75313G	16.822M	5.736544G	5.753366G	500k	1
16.32M	5.73681G	5.75313G	16.822M	5.736544G	5.753366G	500k	2
16.35M	5.73681G	5.75316G	16.732M	5.736604G	5.753336G	500k	3
16.32M	5.73681G	5.75313G	16.732M	5.736604G	5.753336G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

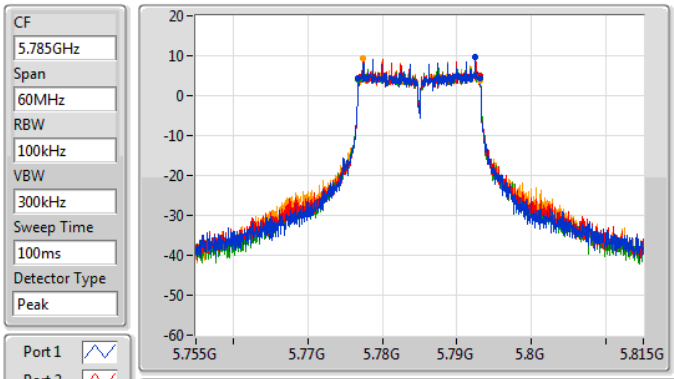
5745MHz

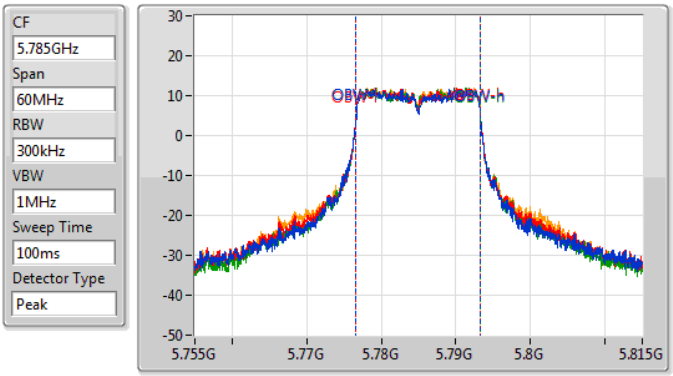


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.57M	5.73414G	5.75571G	Inf	1
24.03M	5.73282G	5.75685G	Inf	2
21.63M	5.73396G	5.75559G	Inf	3
21.81M	5.73405G	5.75586G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5785MHz

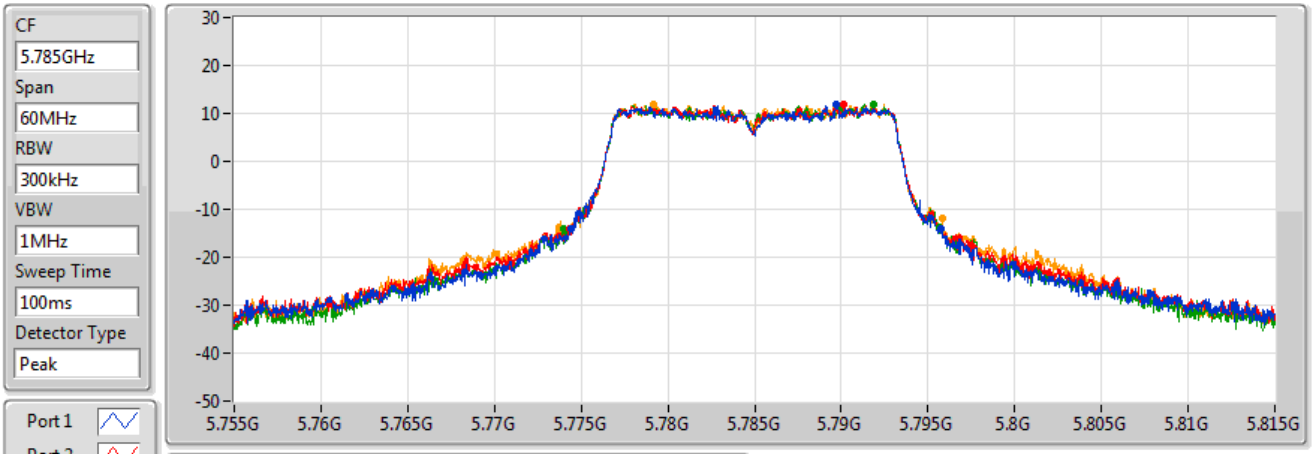




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.77681G	5.79313G	16.762M	5.776574G	5.793336G	500k	1
16.32M	5.77681G	5.79313G	16.762M	5.776574G	5.793336G	500k	2
16.32M	5.77681G	5.79313G	16.732M	5.776604G	5.793336G	500k	3
16.35M	5.77681G	5.79316G	16.732M	5.776604G	5.793336G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

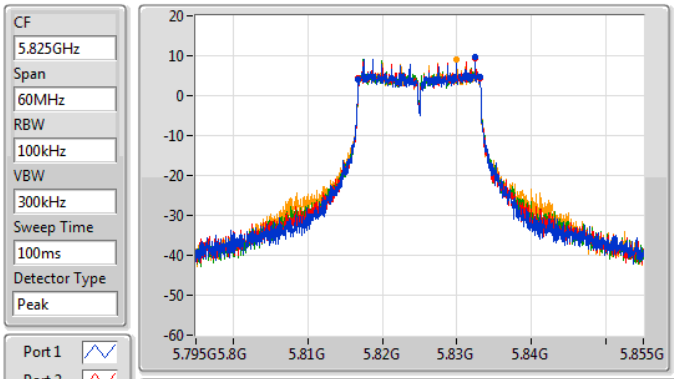
5785MHz

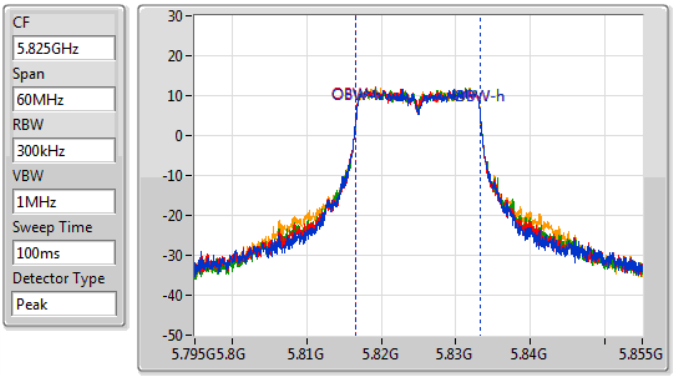


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.33M	5.77444G	5.79577G	Inf	1
21.42M	5.77432G	5.79574G	Inf	2
21.66M	5.77396G	5.79562G	Inf	3
22.14M	5.77372G	5.79586G	Inf	4

802.11a_Nss1,(6Mbps)_4TX EBW

5825MHz

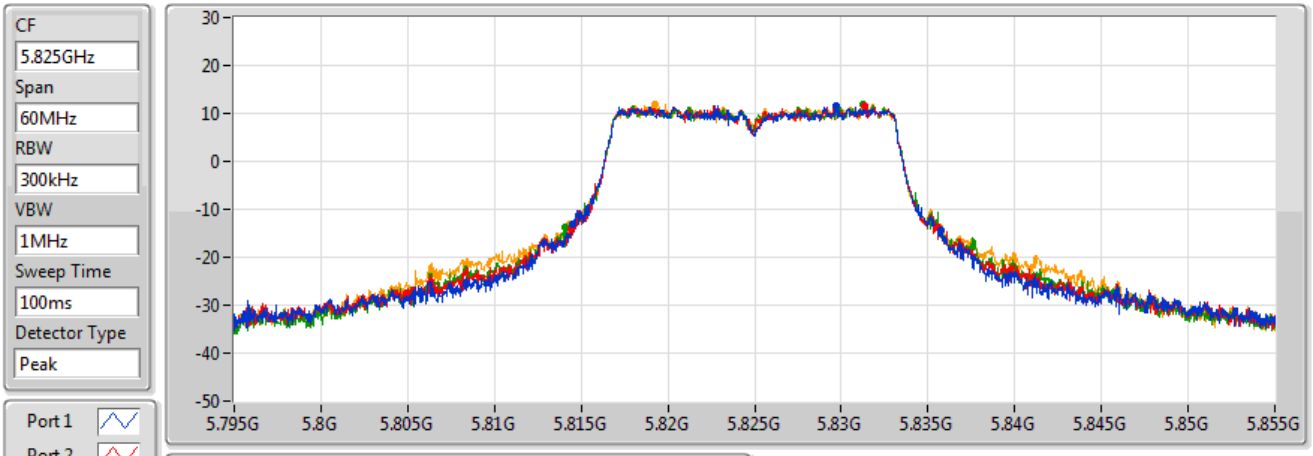




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.81681G	5.83313G	16.732M	5.816574G	5.833306G	500k	1
16.32M	5.81681G	5.83313G	16.702M	5.816604G	5.833306G	500k	2
16.32M	5.81681G	5.83313G	16.732M	5.816604G	5.833336G	500k	3
16.32M	5.81681G	5.83313G	16.702M	5.816604G	5.833306G	500k	4

802.11a_Nss1,(6Mbps)_4TX EBW

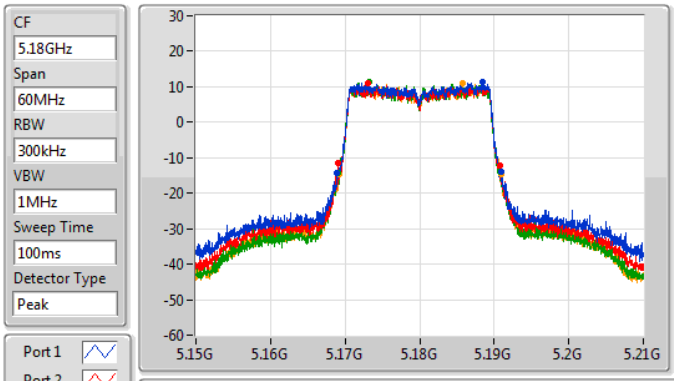
5825MHz

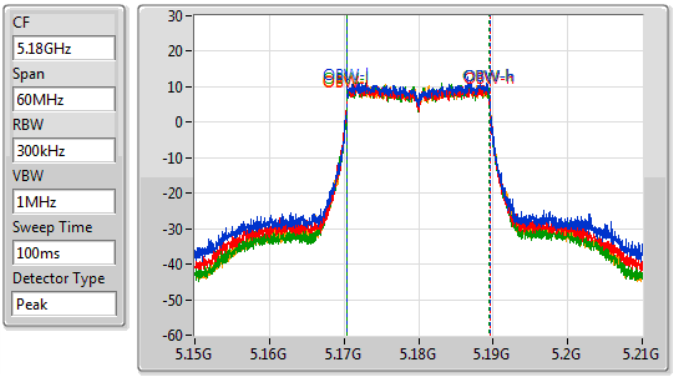


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.24M	5.81453G	5.83577G	Inf	1
21.12M	5.81444G	5.83556G	Inf	2
21.6M	5.81405G	5.83565G	Inf	3
21.27M	5.81435G	5.83562G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5180MHz

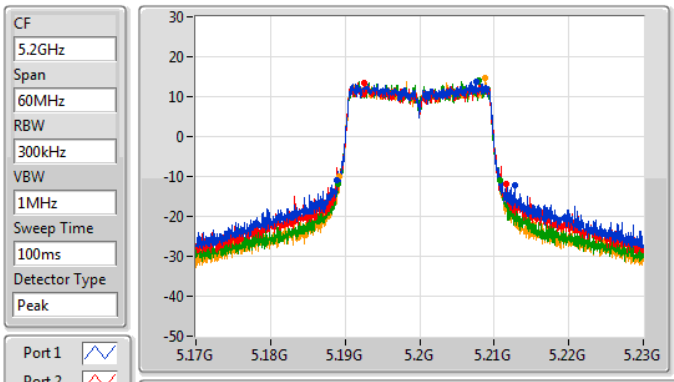


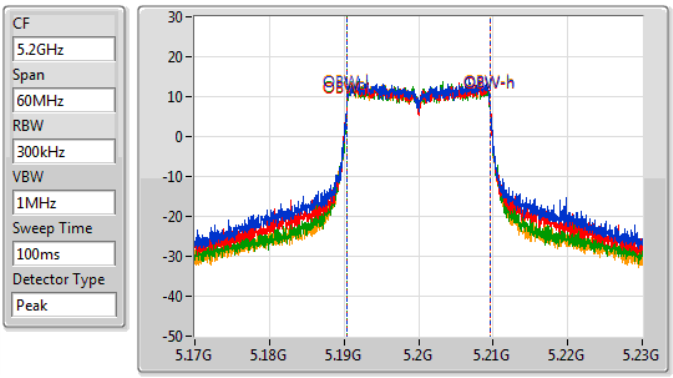


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.05M	5.16896G	5.19101G	19.1M	5.170435G	5.189535G	Inf	1
21.81M	5.16905G	5.19086G	19.13M	5.170405G	5.189535G	Inf	2
21.72M	5.16902G	5.19074G	19.07M	5.170435G	5.189505G	Inf	3
21.81M	5.1692G	5.19101G	19.13M	5.170405G	5.189535G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5200MHz

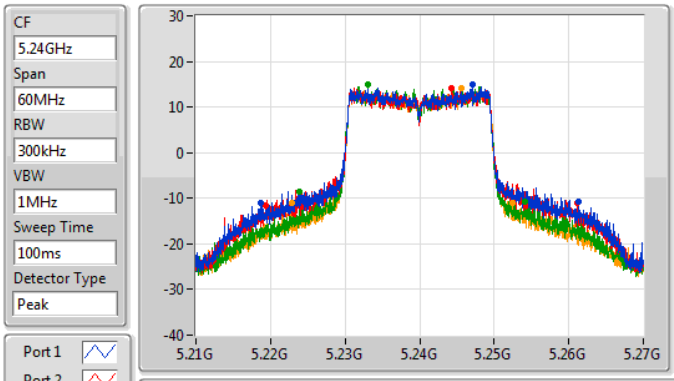


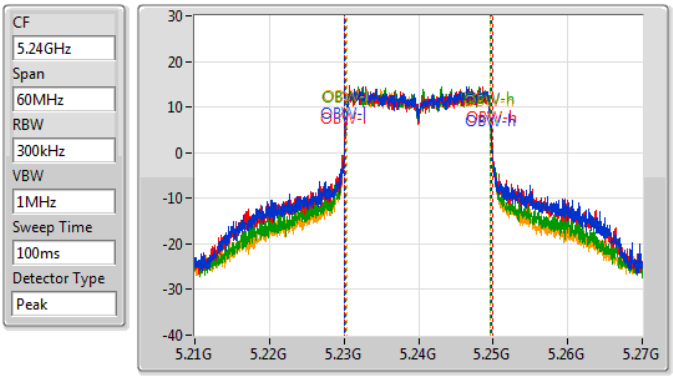


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.82M	5.1889G	5.21272G	19.19M	5.190375G	5.209565G	Inf	1
22.74M	5.18881G	5.21155G	19.22M	5.190345G	5.209565G	Inf	2
21.63M	5.18911G	5.21074G	19.16M	5.190375G	5.209535G	Inf	3
21.6M	5.18917G	5.21077G	19.13M	5.190405G	5.209535G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5240MHz

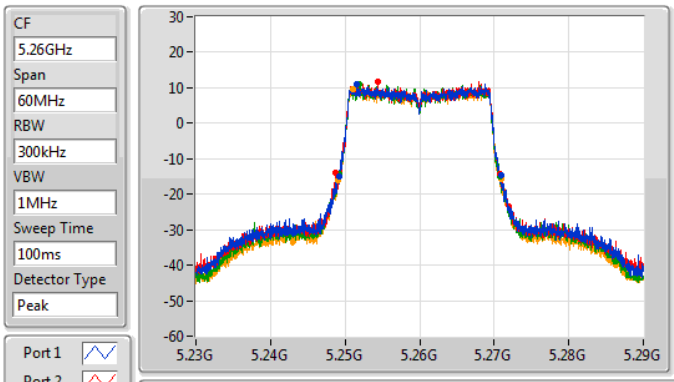


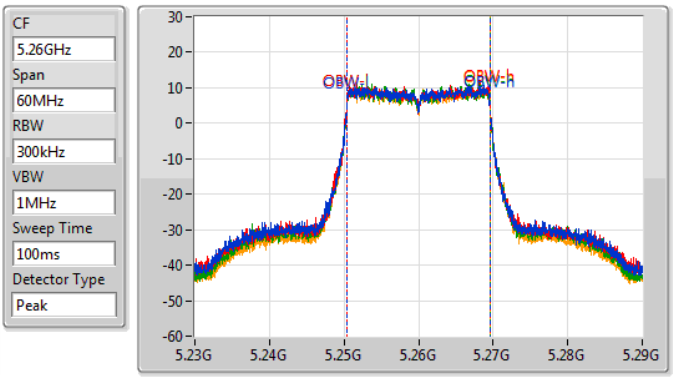


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.66M	5.21873G	5.26139G	19.7M	5.230105G	5.249805G	Inf	1
41.76M	5.21936G	5.26112G	19.79M	5.230075G	5.249865G	Inf	2
30.24M	5.22395G	5.25419G	19.34M	5.230285G	5.249625G	Inf	3
29.52M	5.22293G	5.25245G	19.31M	5.230345G	5.249655G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5260MHz

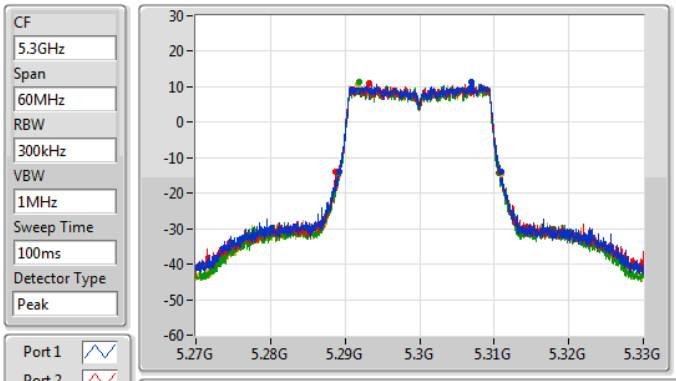


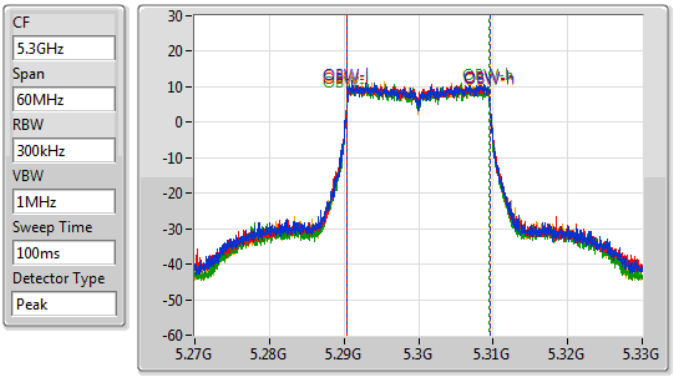


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.78M	5.24914G	5.27092G	19.13M	5.250405G	5.269535G	Inf	1
22.17M	5.24869G	5.27086G	19.13M	5.250405G	5.269535G	Inf	2
21.6M	5.2492G	5.2708G	19.1M	5.250435G	5.269535G	Inf	3
21.87M	5.24911G	5.27098G	19.13M	5.250405G	5.269535G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5300MHz

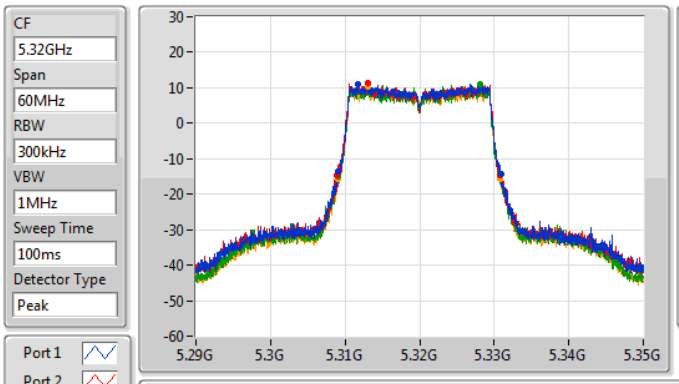


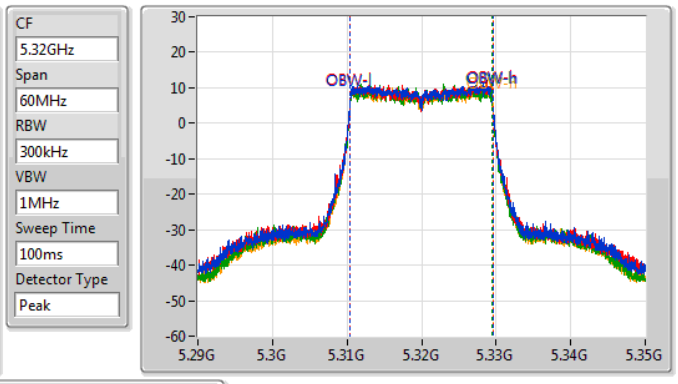


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.75M	5.28914G	5.31089G	19.1M	5.290435G	5.309535G	Inf	1
22.11M	5.28875G	5.31086G	19.13M	5.290405G	5.309535G	Inf	2
21.57M	5.28908G	5.31065G	19.1M	5.290405G	5.309505G	Inf	3
21.84M	5.28908G	5.31092G	19.13M	5.290405G	5.309535G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5320MHz

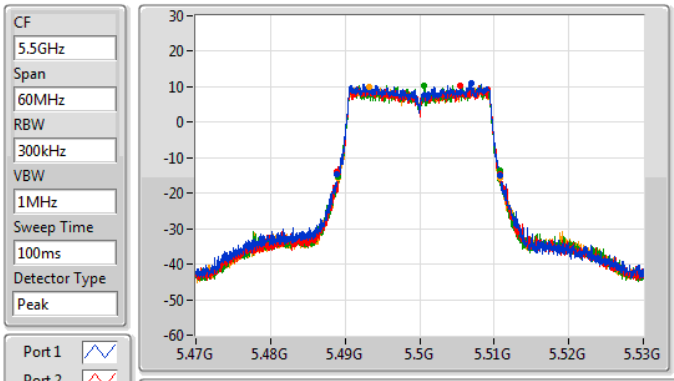


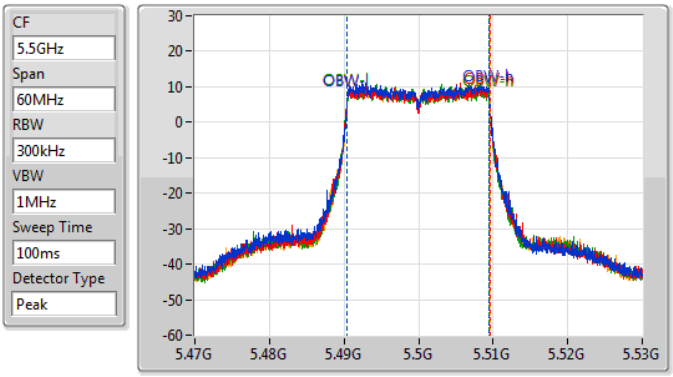


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.78M	5.30911G	5.33089G	19.13M	5.310405G	5.329535G	Inf	1
21.84M	5.30896G	5.3308G	19.13M	5.310405G	5.329535G	Inf	2
21.63M	5.30908G	5.33071G	19.07M	5.310435G	5.329505G	Inf	3
21.72M	5.30908G	5.3308G	19.1M	5.310435G	5.329535G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5500MHz

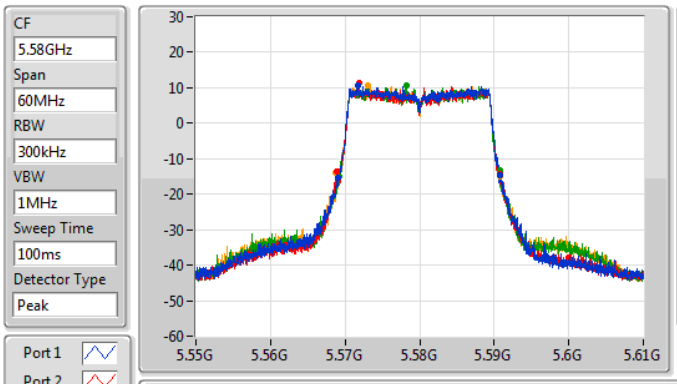


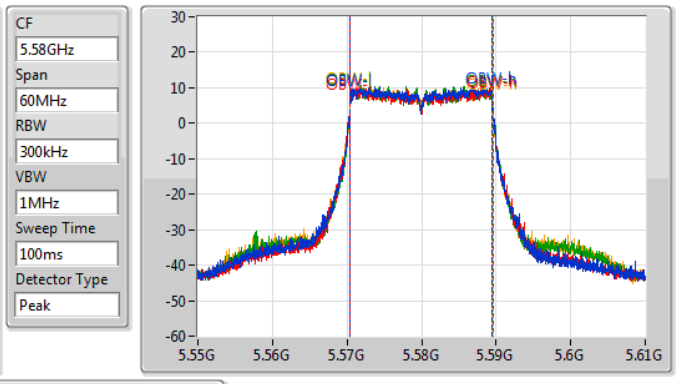


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.99M	5.48887G	5.51086G	19.1M	5.490405G	5.509505G	Inf	1
21.93M	5.4889G	5.51083G	19.13M	5.490405G	5.509535G	Inf	2
21.87M	5.48899G	5.51086G	19.07M	5.490435G	5.509505G	Inf	3
21.75M	5.48911G	5.51086G	19.1M	5.490435G	5.509535G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5580MHz

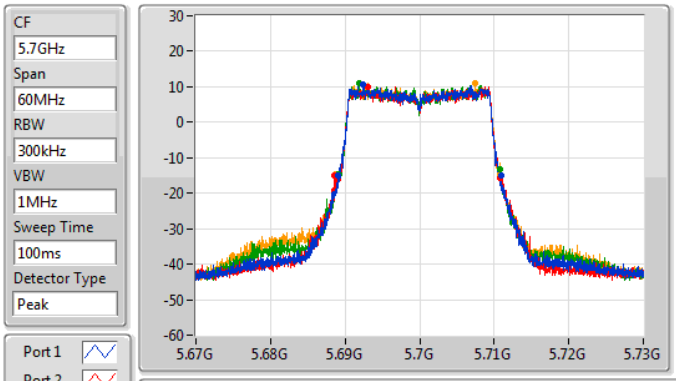


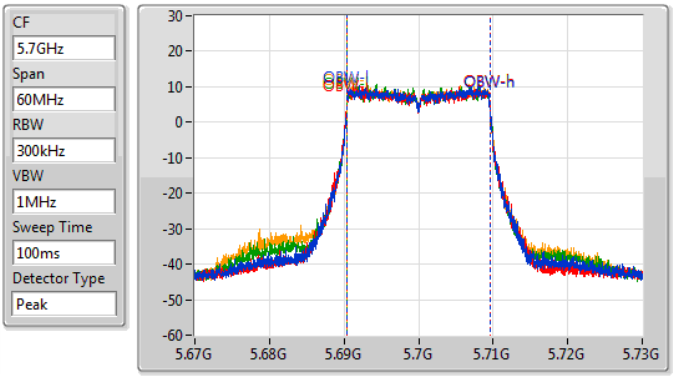


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.81M	5.56899G	5.5908G	19.1M	5.570405G	5.589505G	Inf	1
21.96M	5.56887G	5.59083G	19.13M	5.570405G	5.589535G	Inf	2
21.6M	5.56914G	5.59074G	19.1M	5.570405G	5.589505G	Inf	3
22.11M	5.56875G	5.59086G	19.1M	5.570435G	5.589535G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5700MHz

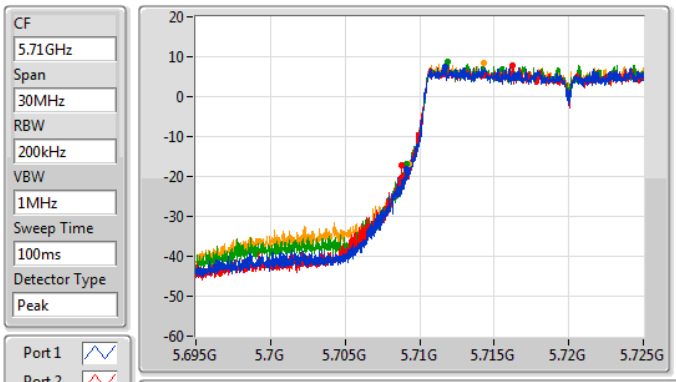


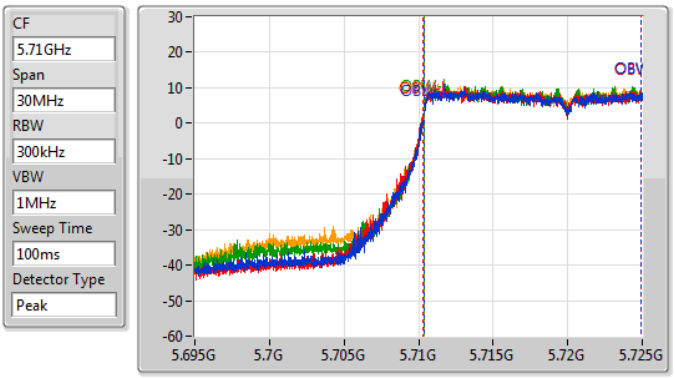


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.87M	5.68911G	5.71098G	19.1M	5.690435G	5.709535G	Inf	1
22.23M	5.68863G	5.71086G	19.16M	5.690375G	5.709535G	Inf	2
21.75M	5.68911G	5.71086G	19.13M	5.690405G	5.709535G	Inf	3
22.02M	5.68875G	5.71077G	19.1M	5.690435G	5.709535G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5720MHz Straddle 5.47-5.725GHz

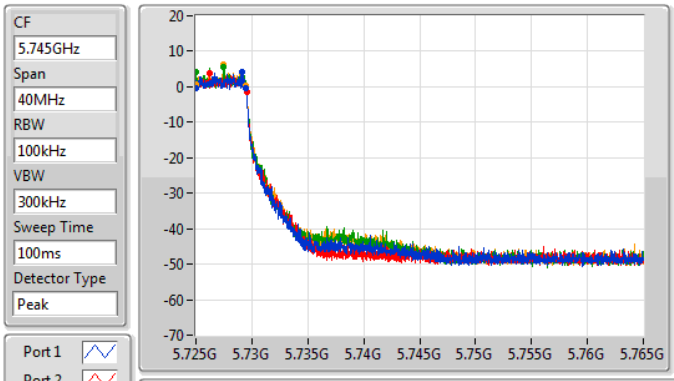


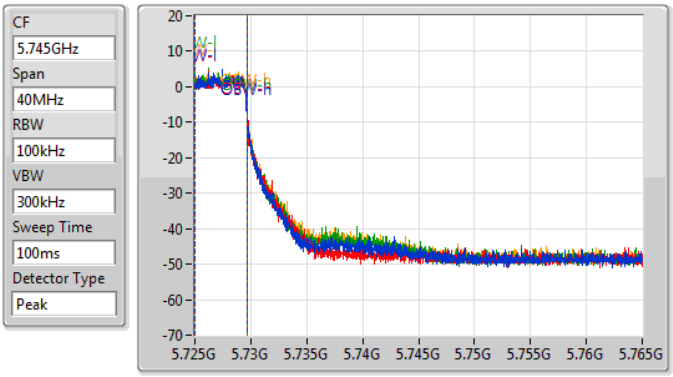


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.9M	5.7091G	5.725G	14.558M	5.710375G	5.724933G	Inf	1
16.245M	5.708755G	5.725G	14.603M	5.71033G	5.724933G	Inf	2
15.885M	5.709115G	5.725G	14.558M	5.710375G	5.724933G	Inf	3
15.675M	5.709325G	5.725G	14.558M	5.710375G	5.724933G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5720MHz Straddle 5.725-5.85GHz

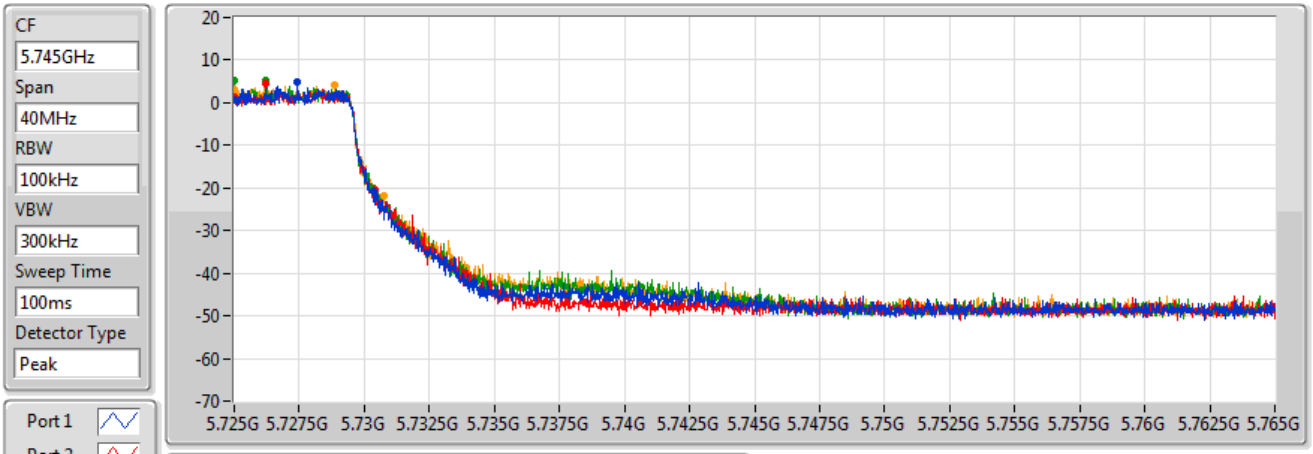




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.5M	5.725G	5.7295G	4.618M	5.72503G	5.729648G	500k	1
4.56M	5.725G	5.72956G	4.638M	5.72503G	5.729668G	500k	2
4.5M	5.725G	5.7295G	4.638M	5.72501G	5.729648G	500k	3
4.46M	5.725G	5.72946G	4.638M	5.72501G	5.729648G	500k	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

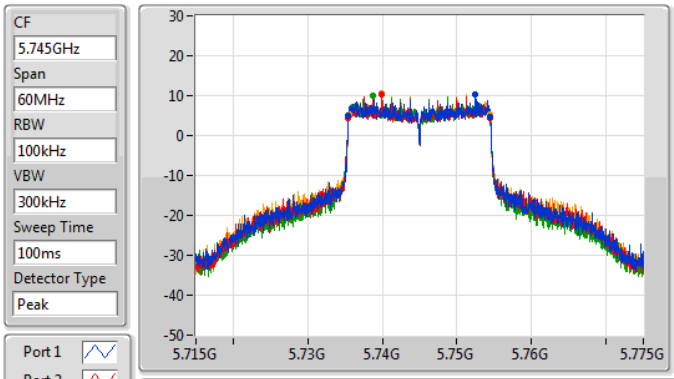
5720MHz Straddle 5.725-5.85GHz

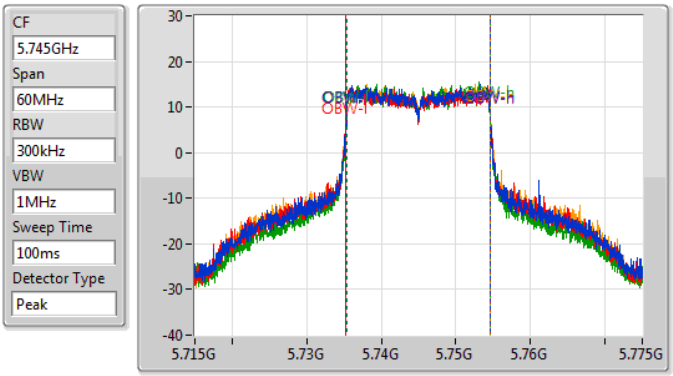


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.38M	5.725G	5.73038G	Inf	1
5.42M	5.725G	5.73042G	Inf	2
5.36M	5.725G	5.73036G	Inf	3
5.74M	5.725G	5.73074G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5745MHz

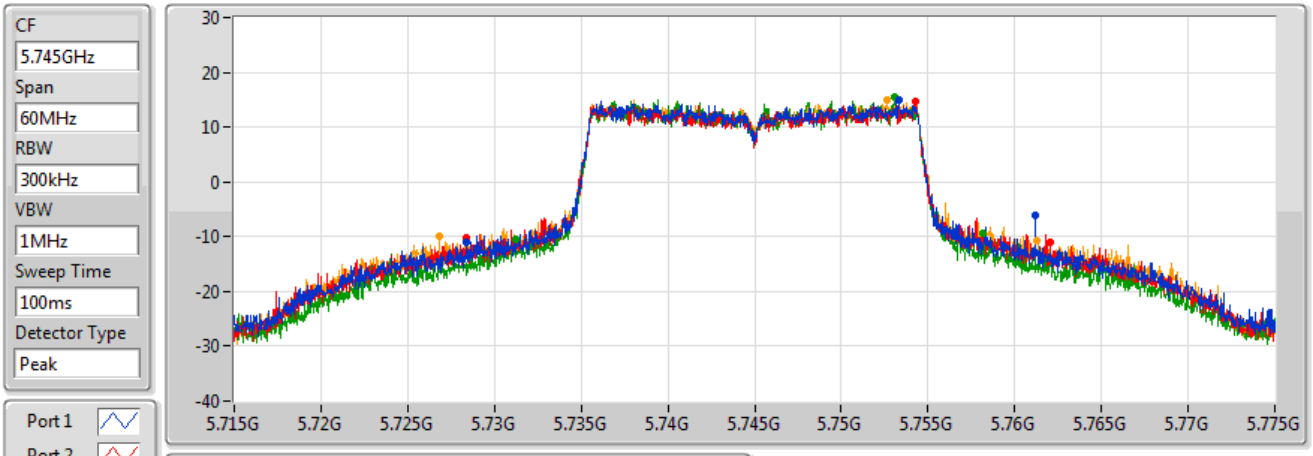




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.05M	5.73543G	5.75448G	19.4M	5.735255G	5.754655G	500k	1
19.02M	5.73546G	5.75448G	19.46M	5.735225G	5.754685G	500k	2
19.02M	5.73546G	5.75448G	19.25M	5.735345G	5.754595G	500k	3
18.99M	5.73549G	5.75448G	19.43M	5.735255G	5.754685G	500k	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

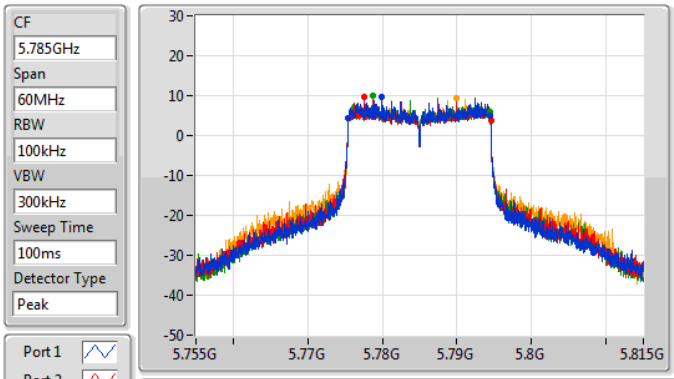
5745MHz

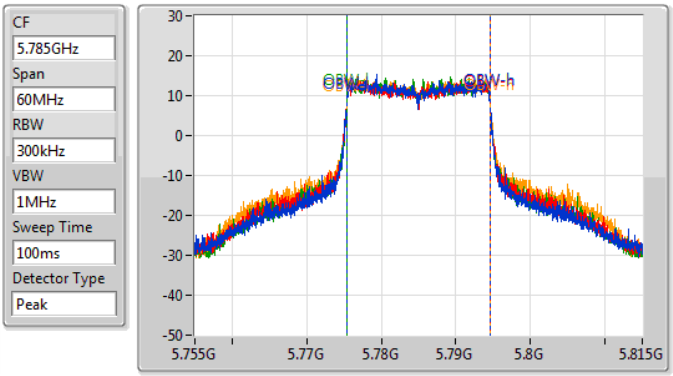


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
32.79M	5.72841G	5.7612G	Inf	1
33.66M	5.72835G	5.76201G	Inf	2
26.97M	5.73123G	5.7582G	Inf	3
34.47M	5.72682G	5.76129G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5785MHz

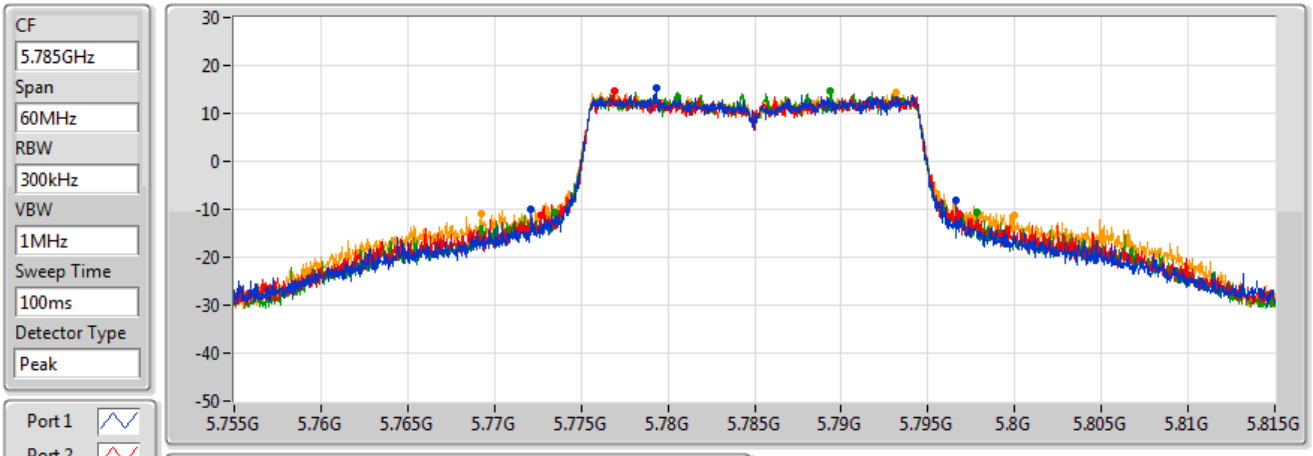




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.02M	5.77546G	5.79448G	19.22M	5.775345G	5.794565G	500k	1
19.05M	5.77549G	5.79454G	19.28M	5.775315G	5.794595G	500k	2
18.93M	5.77549G	5.79442G	19.19M	5.775375G	5.794565G	500k	3
19.02M	5.77546G	5.79448G	19.31M	5.775315G	5.794625G	500k	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

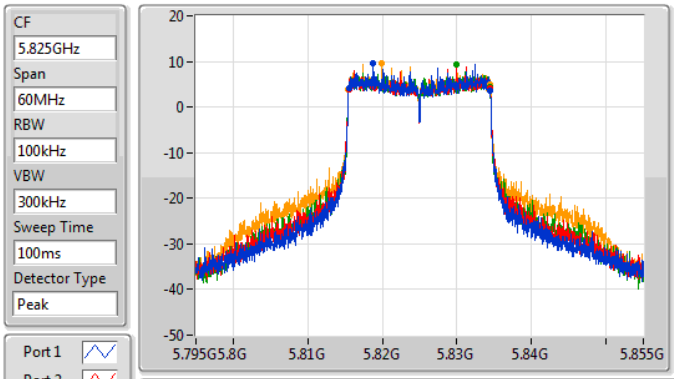
5785MHz

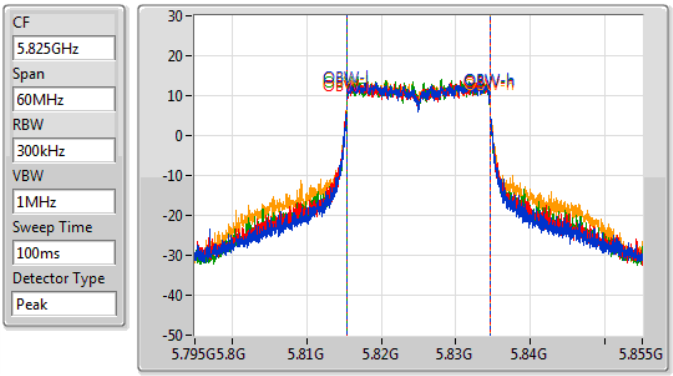


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
24.48M	5.77213G	5.79661G	Inf	1
24.09M	5.77273G	5.79682G	Inf	2
24.3M	5.77348G	5.79778G	Inf	3
30.72M	5.76922G	5.79994G	Inf	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

5825MHz

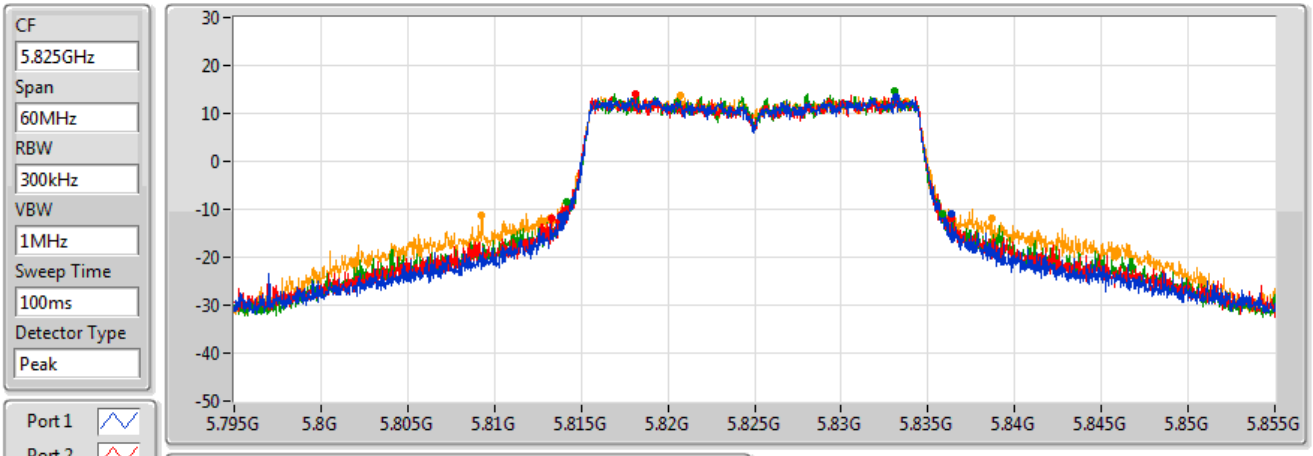




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.99M	5.81549G	5.83448G	19.13M	5.815405G	5.834535G	500k	1
18.99M	5.81549G	5.83448G	19.22M	5.815345G	5.834565G	500k	2
18.99M	5.81549G	5.83448G	19.13M	5.815405G	5.834535G	500k	3
18.99M	5.81546G	5.83445G	19.25M	5.815345G	5.834595G	500k	4

802.11ax HEW20_Nss4,(MCS0)_4TX EBW

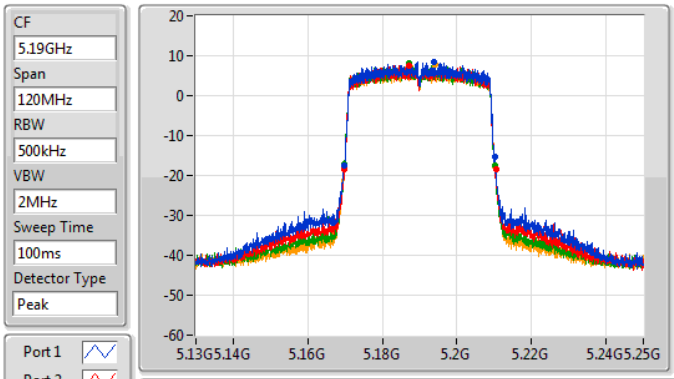
5825MHz

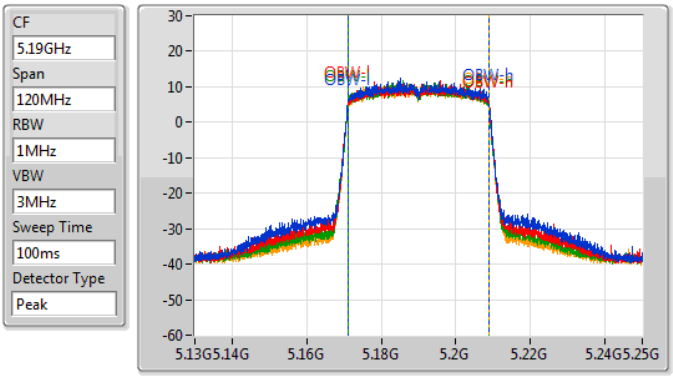


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
22.53M	5.81384G	5.83637G	Inf	1
22.98M	5.81333G	5.83631G	Inf	2
21.72M	5.81414G	5.83586G	Inf	3
29.4M	5.80928G	5.83868G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5190MHz

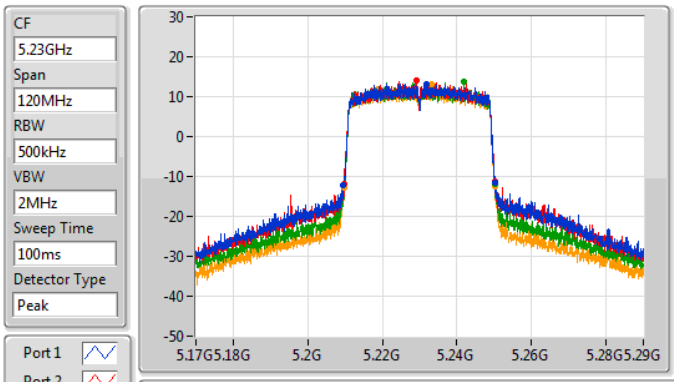


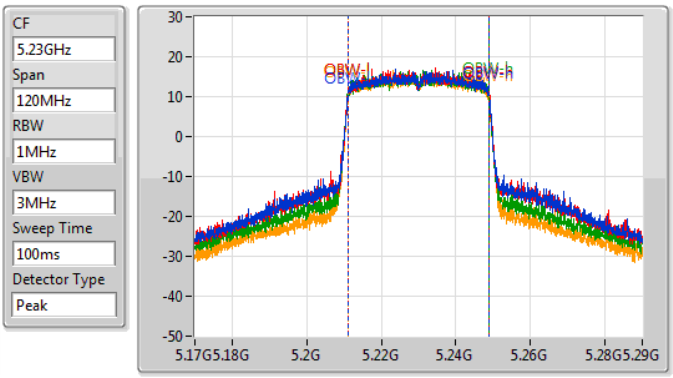


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.38M	5.16972G	5.2101G	37.841M	5.171049G	5.208891G	Inf	1
40.68M	5.16972G	5.2104G	37.781M	5.171109G	5.208891G	Inf	2
40.56M	5.16978G	5.21034G	37.781M	5.171109G	5.208891G	Inf	3
40.38M	5.16978G	5.21016G	37.721M	5.171109G	5.208831G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5230MHz

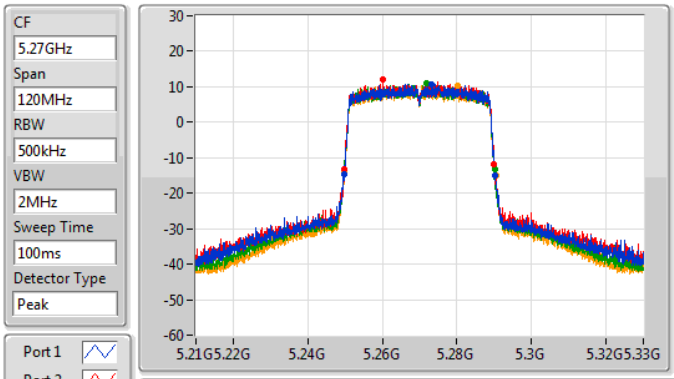


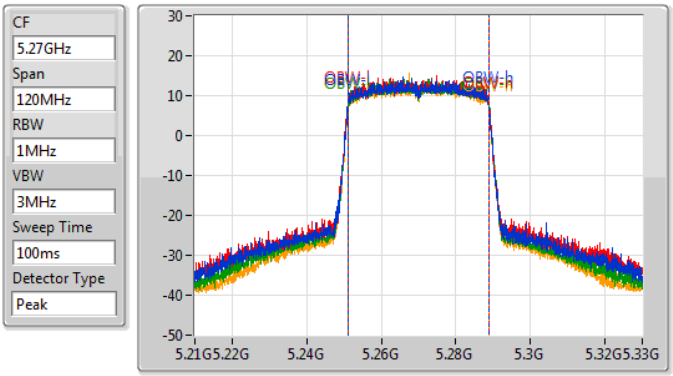


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.98M	5.2093G	5.25028G	37.961M	5.21099G	5.248951G	Inf	1
40.44M	5.20984G	5.25028G	38.021M	5.21099G	5.24901G	Inf	2
40.56M	5.2096G	5.25016G	37.901M	5.21099G	5.248891G	Inf	3
40.32M	5.20984G	5.25016G	37.781M	5.211109G	5.248891G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5270MHz

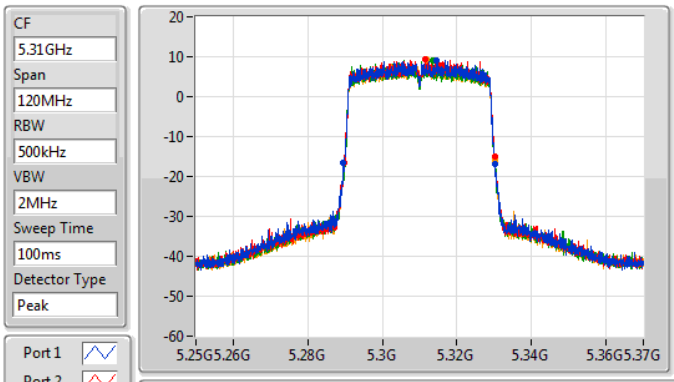


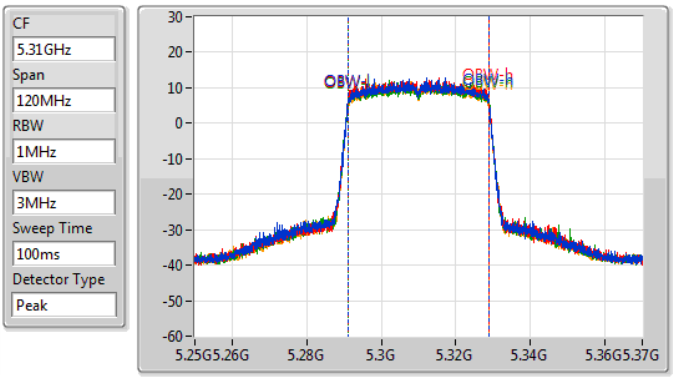


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.5M	5.24966G	5.29016G	37.781M	5.251049G	5.288831G	Inf	1
40.08M	5.2499G	5.28998G	37.841M	5.251049G	5.288891G	Inf	2
40.26M	5.24984G	5.2901G	37.781M	5.251049G	5.288831G	Inf	3
40.5M	5.2499G	5.2904G	37.721M	5.251109G	5.288831G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5310MHz

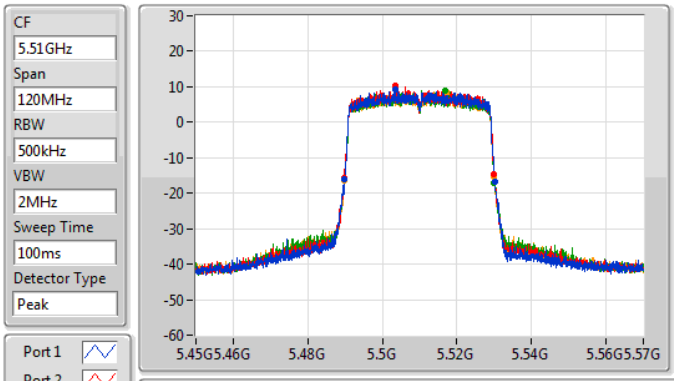


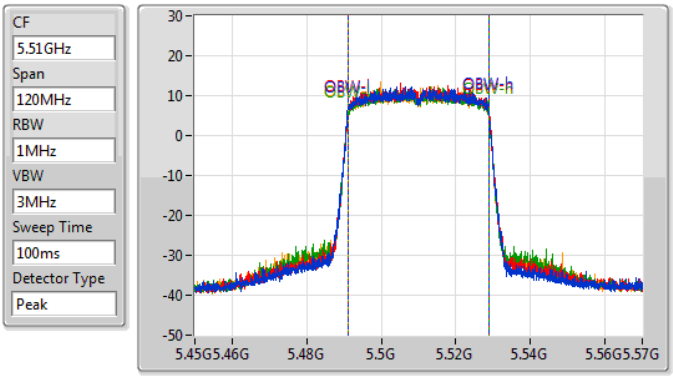


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.62M	5.2896G	5.33022G	37.781M	5.291049G	5.328831G	Inf	1
40.44M	5.28966G	5.3301G	37.781M	5.291109G	5.328891G	Inf	2
40.32M	5.28978G	5.3301G	37.841M	5.291049G	5.328891G	Inf	3
40.44M	5.28972G	5.33016G	37.841M	5.291049G	5.328891G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5510MHz

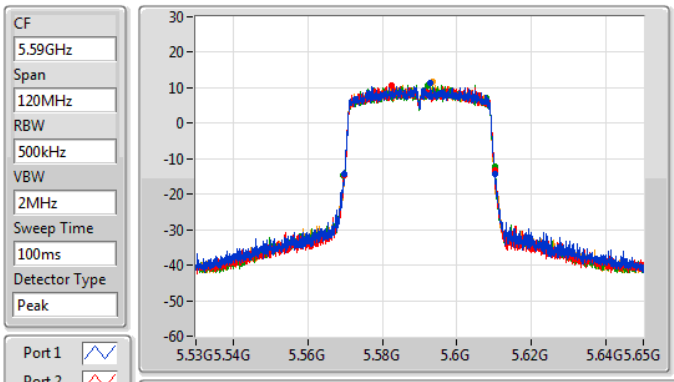


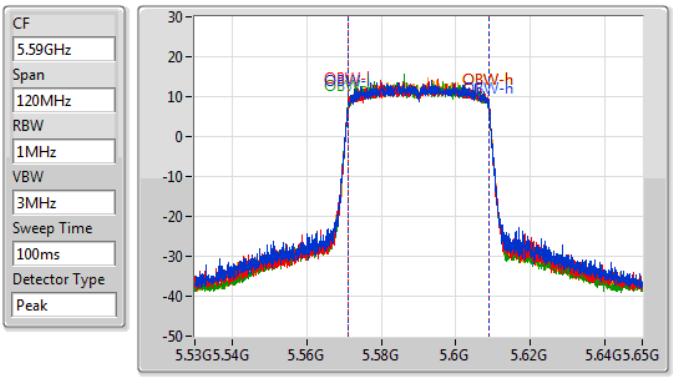


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.44M	5.48984G	5.53028G	37.781M	5.491049G	5.528831G	Inf	1
40.32M	5.48972G	5.53004G	37.781M	5.491109G	5.528891G	Inf	2
40.2M	5.48984G	5.53004G	37.781M	5.491049G	5.528831G	Inf	3
40.32M	5.48972G	5.53004G	37.781M	5.491109G	5.528891G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5590MHz

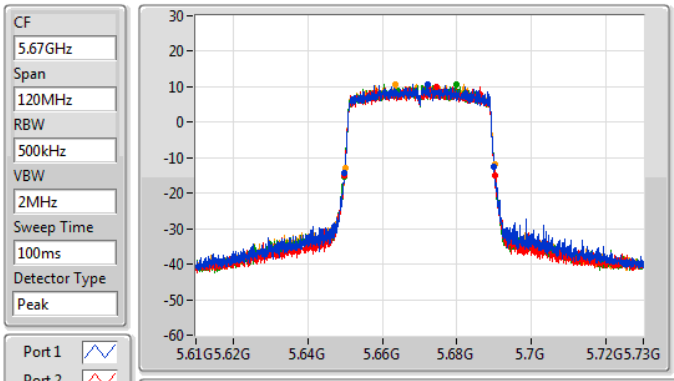


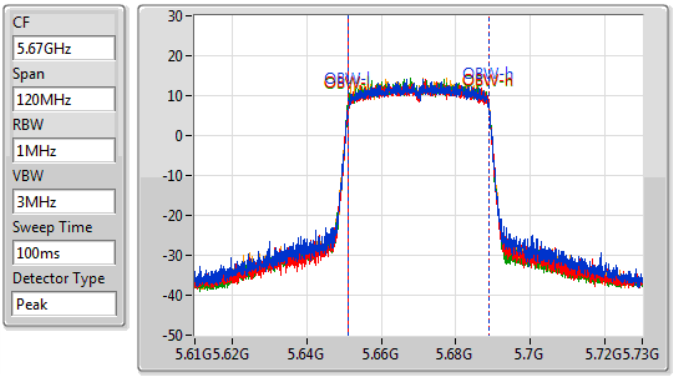


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.62M	5.56972G	5.61034G	37.841M	5.571049G	5.608891G	Inf	1
40.5M	5.56966G	5.61016G	37.841M	5.571049G	5.608891G	Inf	2
40.68M	5.56954G	5.61022G	37.841M	5.571049G	5.608891G	Inf	3
40.26M	5.56984G	5.6101G	37.781M	5.571049G	5.608831G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5670MHz

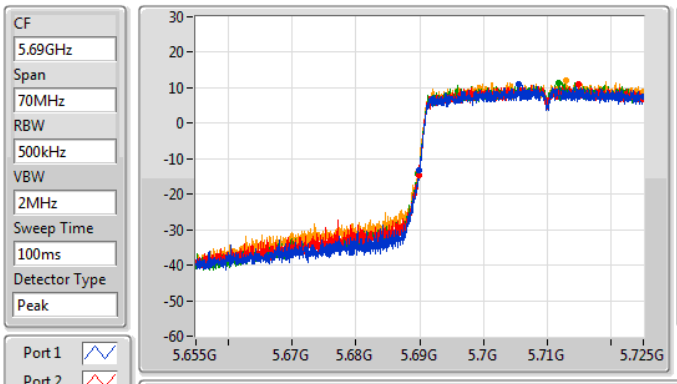


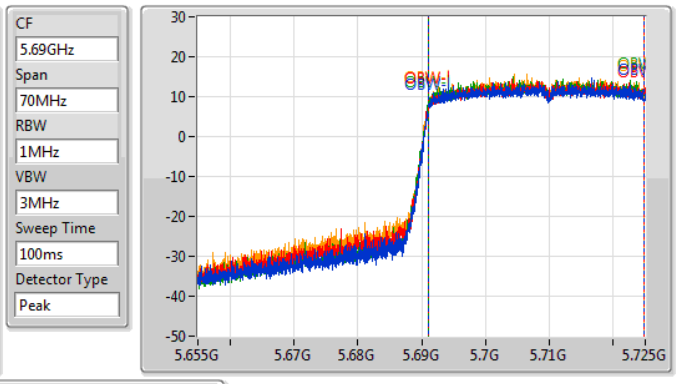


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.32M	5.64972G	5.69004G	37.841M	5.651049G	5.688891G	Inf	1
40.32M	5.64984G	5.69016G	37.781M	5.651109G	5.688891G	Inf	2
40.38M	5.64972G	5.6901G	37.781M	5.651109G	5.688891G	Inf	3
40.26M	5.64996G	5.69022G	37.841M	5.651049G	5.688891G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5710MHz Straddle 5.47-5.725GHz

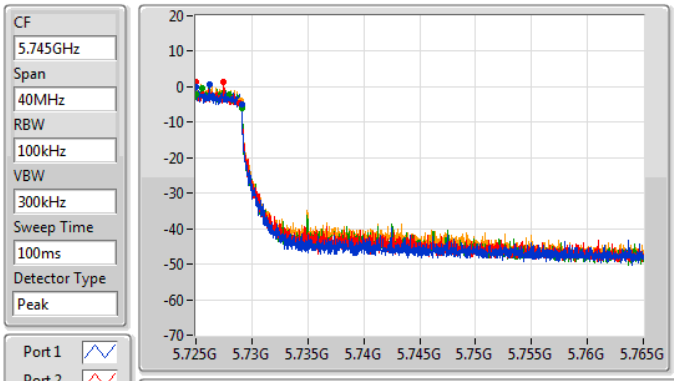


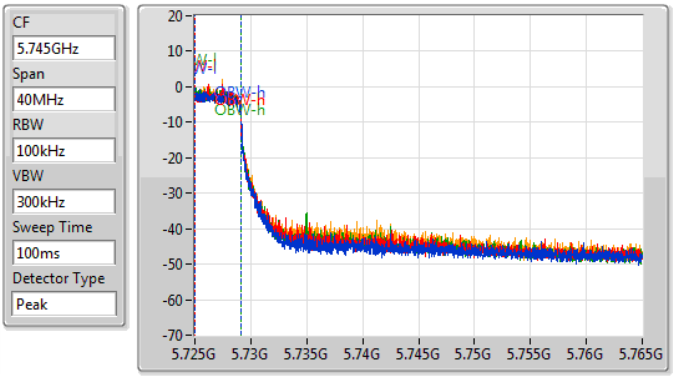


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.035M	5.689965G	5.725G	33.723M	5.691049G	5.724773G	Inf	1
35.175M	5.689825G	5.725G	33.793M	5.691049G	5.724843G	Inf	2
35.315M	5.689685G	5.725G	33.758M	5.691049G	5.724808G	Inf	3
35.245M	5.689755G	5.725G	33.793M	5.691014G	5.724808G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5710MHz Straddle 5.725-5.85GHz

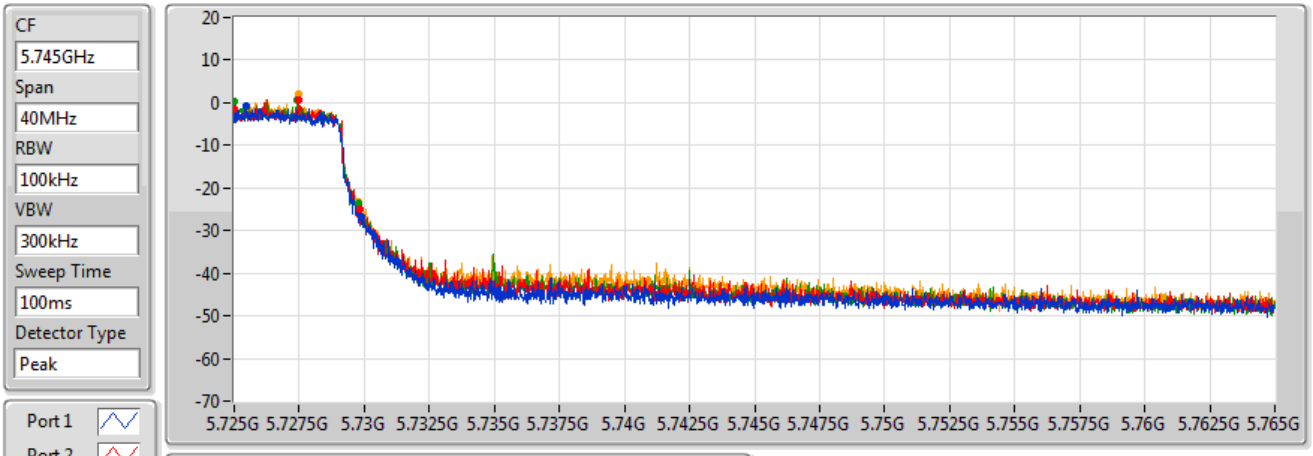




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
4.08M	5.725G	5.72908G	4.138M	5.72503G	5.729168G	500k	1
3.94M	5.725G	5.72894G	4.138M	5.72501G	5.729148G	500k	2
4.12M	5.725G	5.72912G	4.158M	5.72501G	5.729168G	500k	3
3.96M	5.725G	5.72896G	4.138M	5.72501G	5.729148G	500k	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

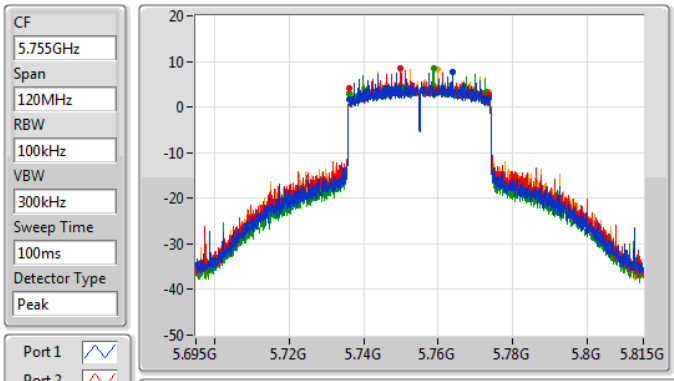
5710MHz Straddle 5.725-5.85GHz

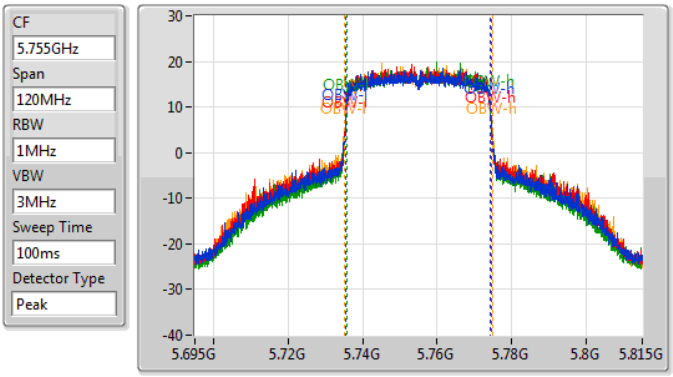


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
4.92M	5.725G	5.72992G	Inf	1
4.82M	5.725G	5.72982G	Inf	2
4.78M	5.725G	5.72978G	Inf	3
4.78M	5.725G	5.72978G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5755MHz

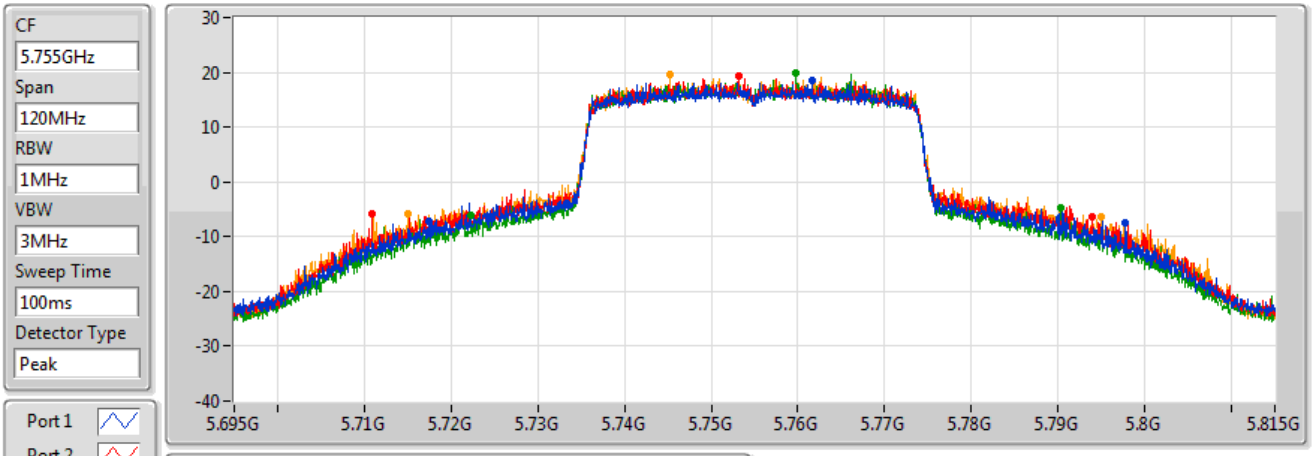




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.68M	5.73598G	5.77366G	38.861M	5.73551G	5.77437G	500k	1
37.32M	5.73616G	5.77348G	39.22M	5.73533G	5.77455G	500k	2
36.78M	5.73622G	5.773G	38.561M	5.73569G	5.77425G	500k	3
37.38M	5.73604G	5.77342G	39.52M	5.73521G	5.77473G	500k	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

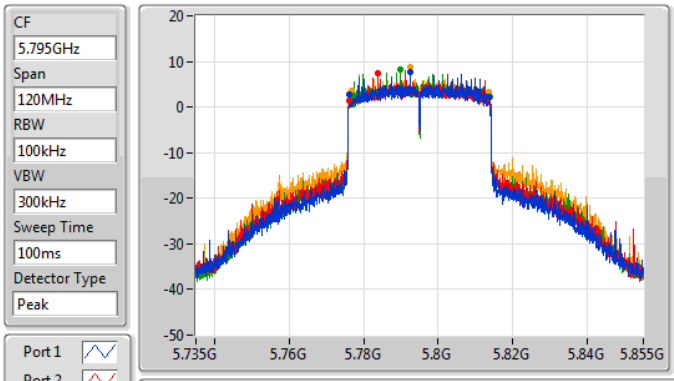
5755MHz

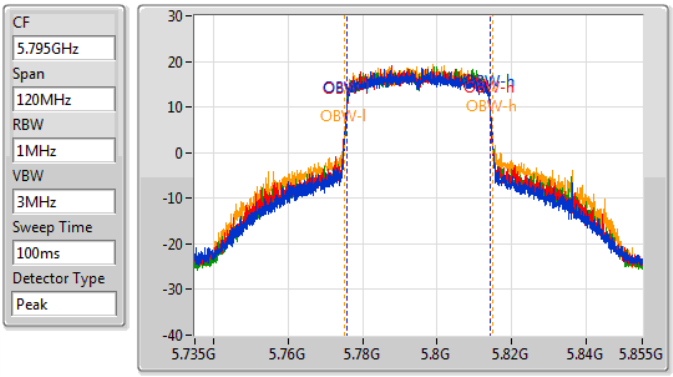


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
80.28M	5.7175G	5.79778G	Inf	1
83.04M	5.7109G	5.79394G	Inf	2
67.98M	5.72236G	5.79034G	Inf	3
79.92M	5.71498G	5.7949G	Inf	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

5795MHz

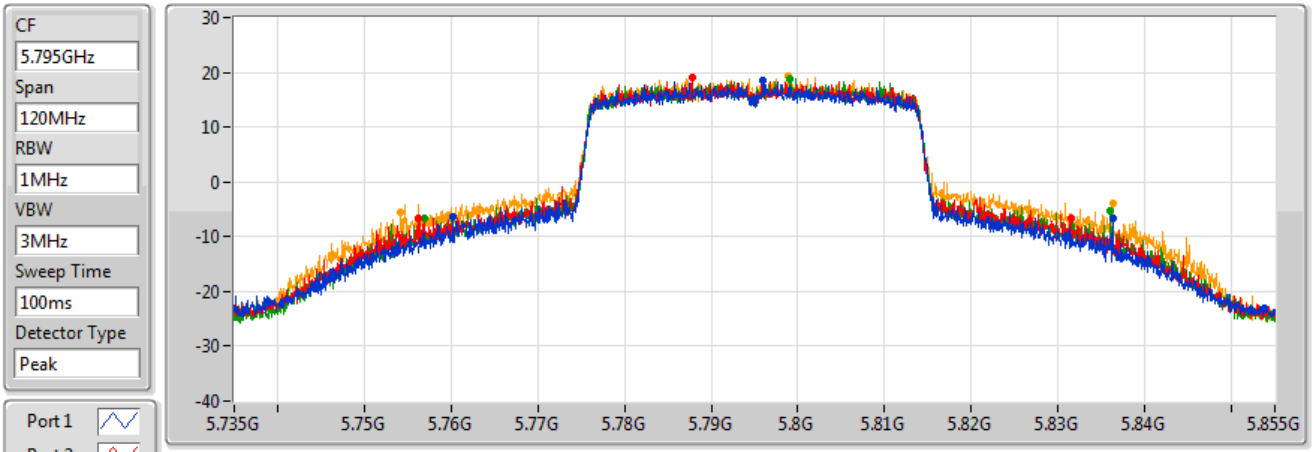




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.32M	5.77616G	5.81348G	38.501M	5.77569G	5.81419G	500k	1
37.5M	5.77616G	5.81366G	38.621M	5.77563G	5.81425G	500k	2
36.66M	5.77706G	5.81372G	38.621M	5.77569G	5.81431G	500k	3
36.72M	5.77688G	5.8136G	39.94M	5.77503G	5.81497G	500k	4

802.11ax HEW40_Nss4,(MCS0)_4TX EBW

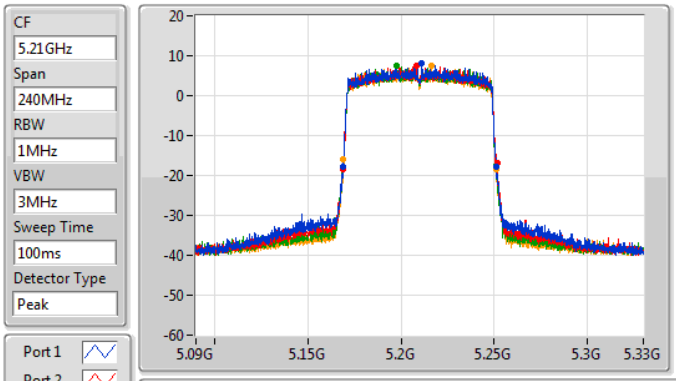
5795MHz

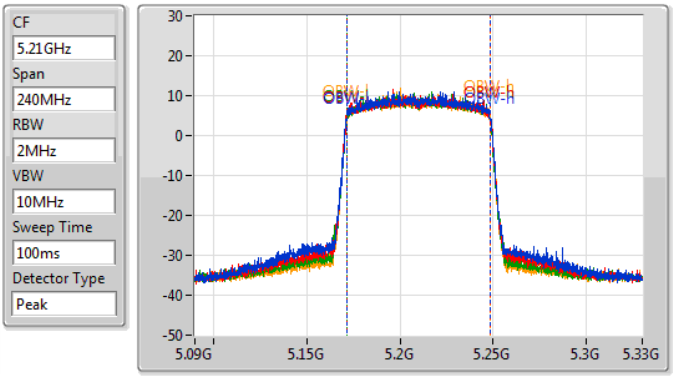


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
76.08M	5.7602G	5.83628G	Inf	1
75.36M	5.75624G	5.8316G	Inf	2
79.14M	5.7569G	5.83604G	Inf	3
82.08M	5.7542G	5.83628G	Inf	4

802.11ax HEW80_Nss4,(MCS0)_4TX EBW

5210MHz

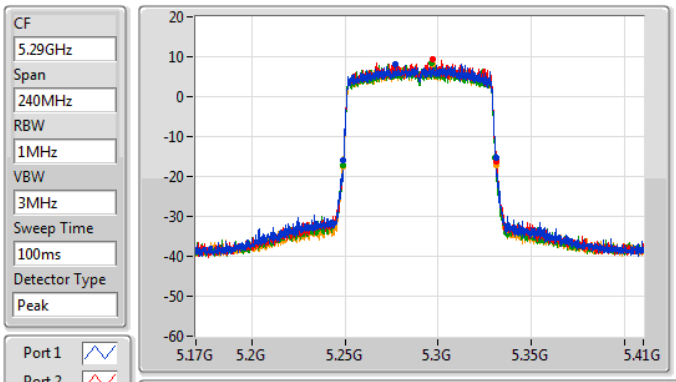


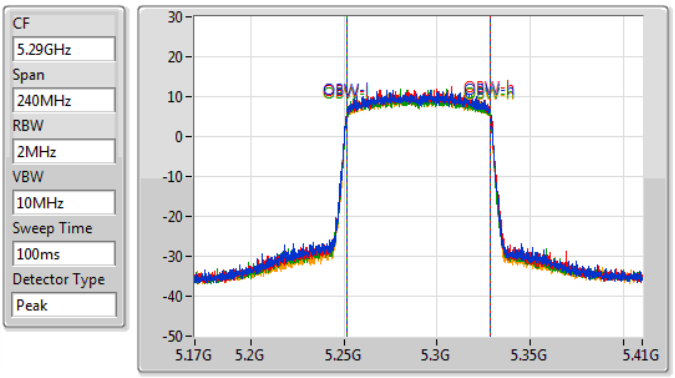


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.32M	5.16884G	5.25116G	77.481M	5.171259G	5.248741G	Inf	1
82.92M	5.1686G	5.25152G	77.481M	5.171259G	5.248741G	Inf	2
81.84M	5.16896G	5.2508G	77.241M	5.171259G	5.248501G	Inf	3
82.08M	5.16908G	5.25116G	77.241M	5.171379G	5.248621G	Inf	4

802.11ax HEW80_Nss4,(MCS0)_4TX EBW

5290MHz

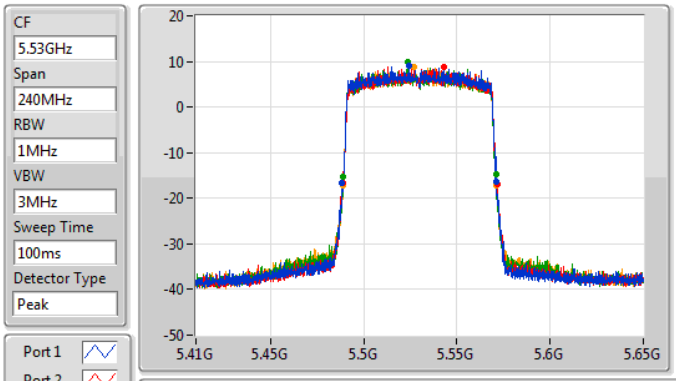


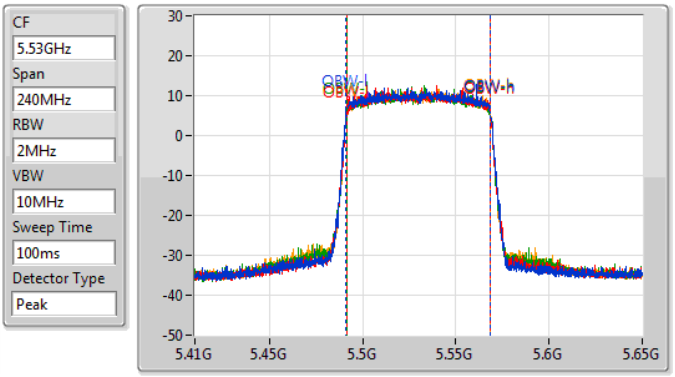


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.08M	5.24896G	5.33104G	77.361M	5.251379G	5.328741G	Inf	1
82.08M	5.24896G	5.33104G	77.241M	5.251379G	5.328621G	Inf	2
81.6M	5.24908G	5.33068G	77.361M	5.251259G	5.328621G	Inf	3
82.56M	5.2486G	5.33116G	77.241M	5.251379G	5.328621G	Inf	4

802.11ax HEW80_Nss4,(MCS0)_4TX EBW

5530MHz

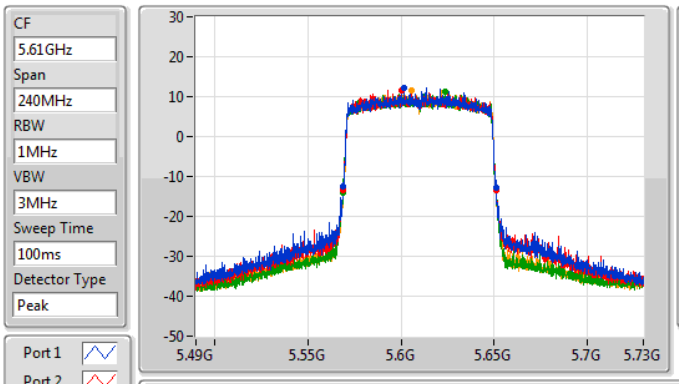


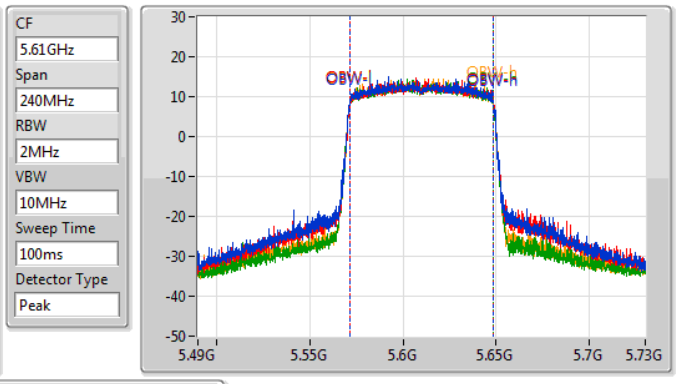


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.92M	5.48836G	5.57128G	77.481M	5.491139G	5.568621G	Inf	1
82.68M	5.48884G	5.57152G	77.241M	5.491379G	5.568621G	Inf	2
81.84M	5.48896G	5.5708G	77.481M	5.491259G	5.568741G	Inf	3
82.44M	5.48872G	5.57116G	77.241M	5.491379G	5.568621G	Inf	4

802.11ax HEW80_Nss4,(MCS0)_4TX EBW

5610MHz

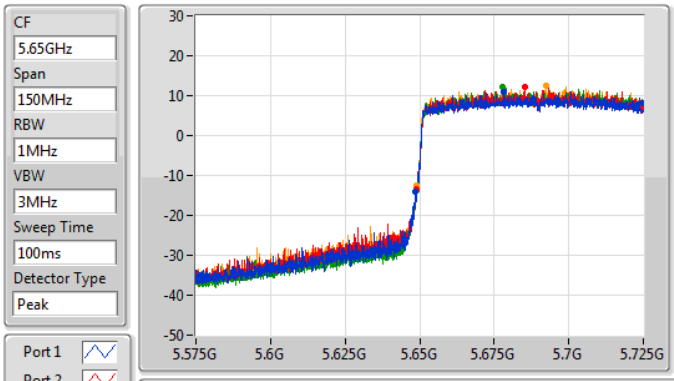


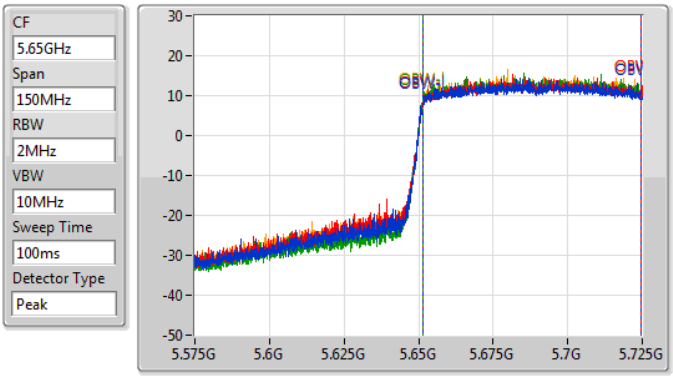


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.56M	5.56872G	5.65128G	77.361M	5.571259G	5.648621G	Inf	1
82.56M	5.56872G	5.65128G	77.361M	5.571259G	5.648621G	Inf	2
81.84M	5.56896G	5.6508G	77.241M	5.571379G	5.648621G	Inf	3
82.2M	5.56896G	5.65116G	77.481M	5.571259G	5.648741G	Inf	4

802.11ax HEW80_Nss4,(MCS0)_4TX EBW

5690MHz Straddle 5.47-5.725GHz

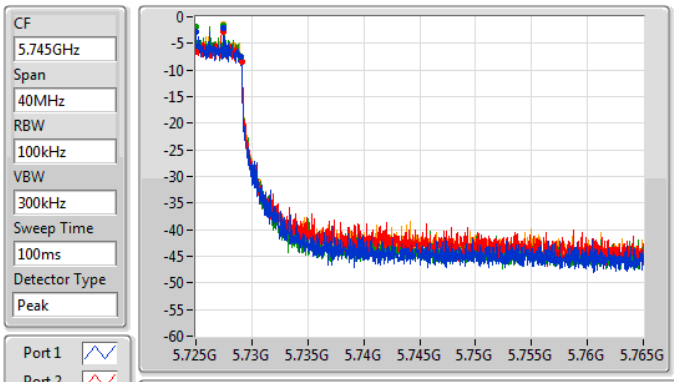


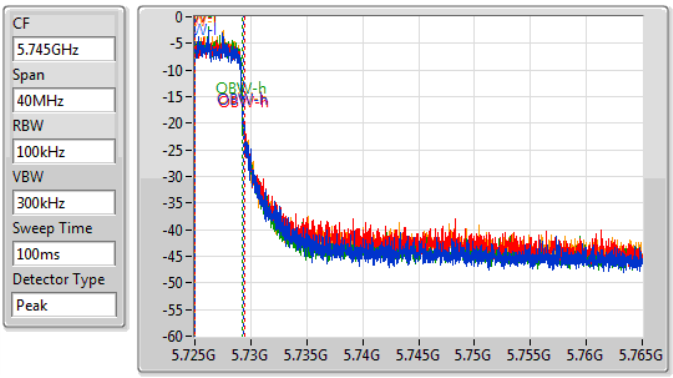


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.425M	5.648575G	5.725G	73.163M	5.651274G	5.724438G	Inf	1
75.975M	5.649025G	5.725G	73.238M	5.651274G	5.724513G	Inf	2
75.975M	5.649025G	5.725G	73.163M	5.651274G	5.724438G	Inf	3
76.125M	5.648875G	5.725G	73.163M	5.651349G	5.724513G	Inf	4

802.11ax HEW80_Nss4,(MCS0)_4TX EBW

5690MHz Straddle 5.725-5.85GHz

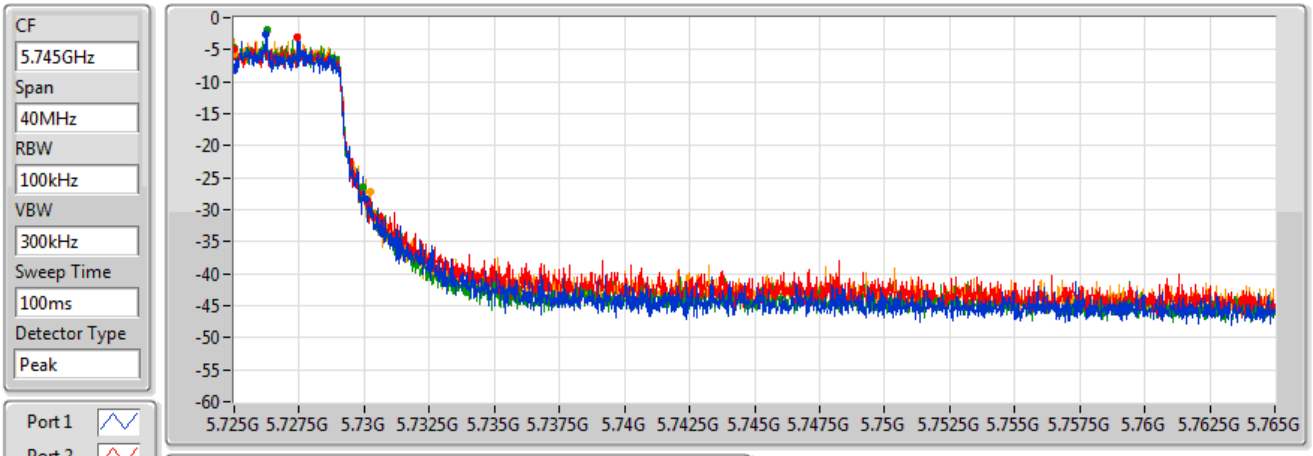




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.98M	5.725G	5.72898G	4.278M	5.72503G	5.729308G	500k	1
4.12M	5.725G	5.72912G	4.418M	5.72501G	5.729428G	500k	2
4.02M	5.725G	5.72902G	4.258M	5.72501G	5.729268G	500k	3
4.02M	5.725G	5.72902G	4.318M	5.72501G	5.729328G	500k	4

802.11ax HEW80_Nss4,(MCS0)_4TX EBW

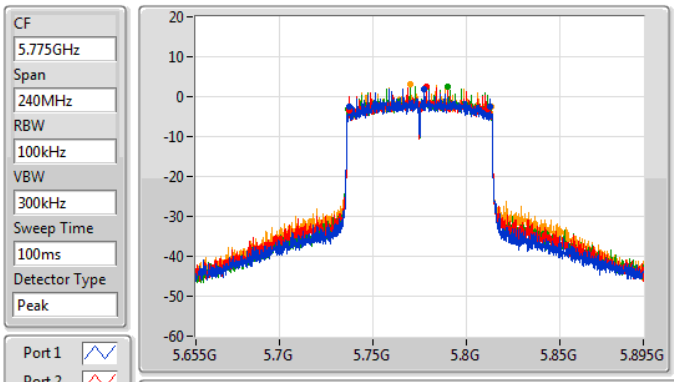
5690MHz Straddle 5.725-5.85GHz

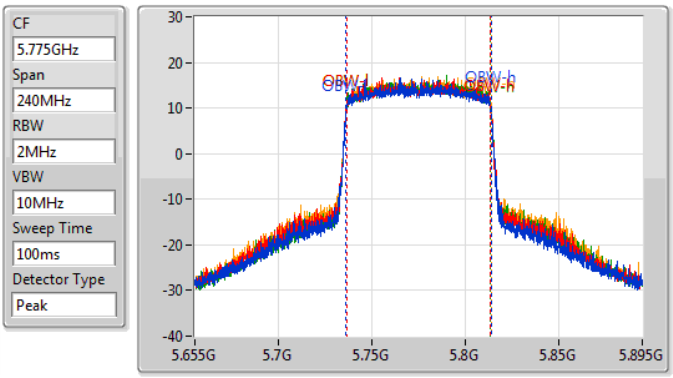


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
5.06M	5.725G	5.73006G	Inf	1
5.14M	5.725G	5.73014G	Inf	2
4.94M	5.725G	5.72994G	Inf	3
5.22M	5.725G	5.73022G	Inf	4

802.11ax HEW80_Nss4,(MCS0)_4TX EBW

5775MHz

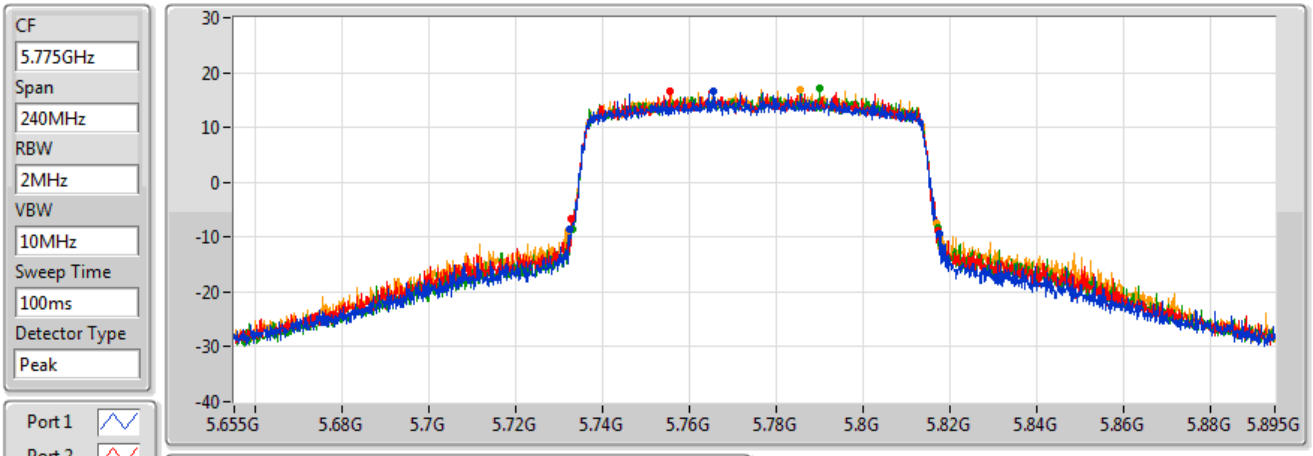




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.6M	5.73696G	5.81256G	77.721M	5.736139G	5.813861G	500k	1
74.4M	5.73732G	5.81172G	77.481M	5.736259G	5.813741G	500k	2
76.8M	5.73624G	5.81304G	77.481M	5.736259G	5.813741G	500k	3
76.32M	5.7372G	5.81352G	77.601M	5.736259G	5.813861G	500k	4

802.11ax HEW80_Nss4,(MCS0)_4TX EBW

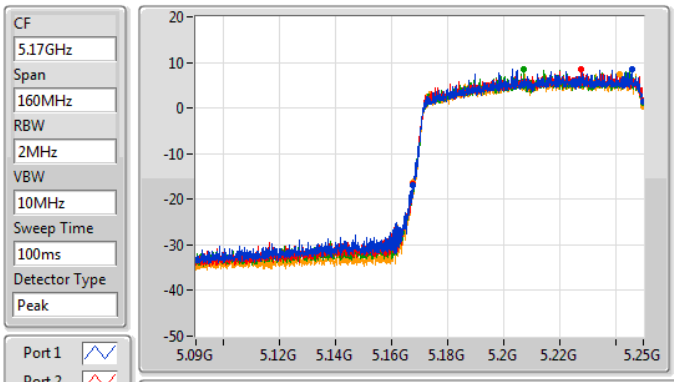
5775MHz

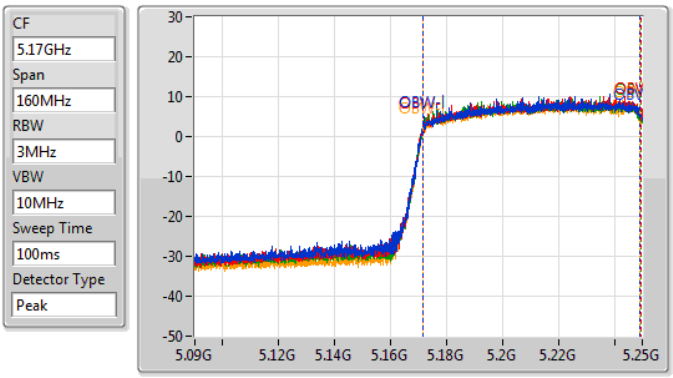


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
84.96M	5.73252G	5.81748G	Inf	1
84.6M	5.73276G	5.81736G	Inf	2
84.36M	5.73288G	5.81724G	Inf	3
84.96M	5.73204G	5.817G	Inf	4

802.11ax HEW160_Nss4,(MCS0)_4TX EBW

5250MHz Straddle 5.15-5.25GHz

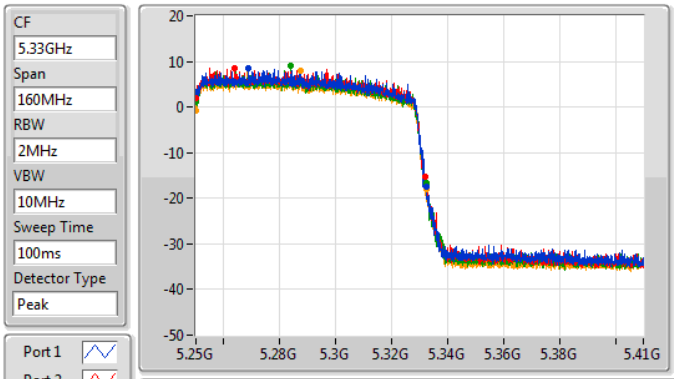


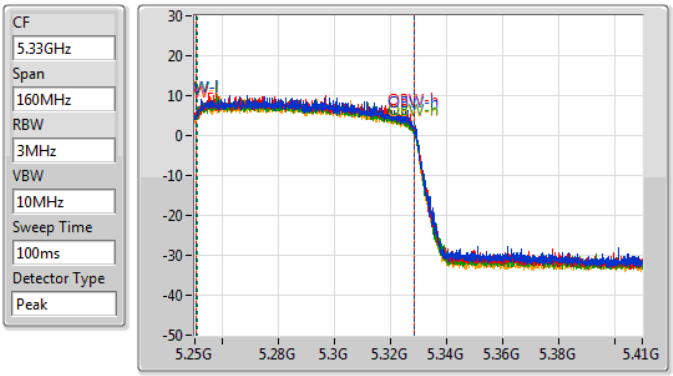


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.64M	5.16736G	5.25G	77.961M	5.171359G	5.24932G	Inf	1
82.24M	5.16776G	5.25G	77.961M	5.171439G	5.2494G	Inf	2
82.4M	5.1676G	5.25G	77.961M	5.171439G	5.2494G	Inf	3
82.4M	5.1676G	5.25G	77.961M	5.171359G	5.24932G	Inf	4

802.11ax HEW160_Nss4,(MCS0)_4TX EBW

5250MHz Straddle 5.25-5.35GHz

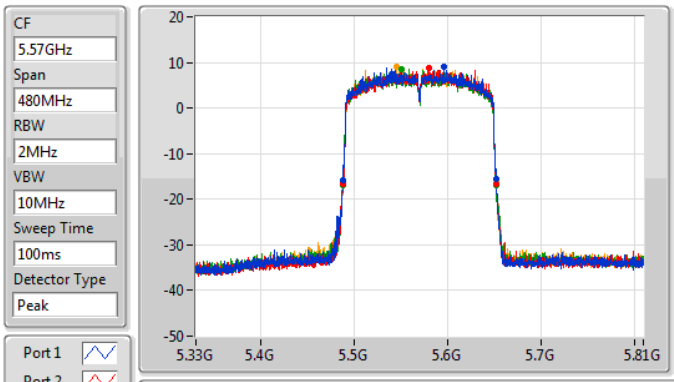


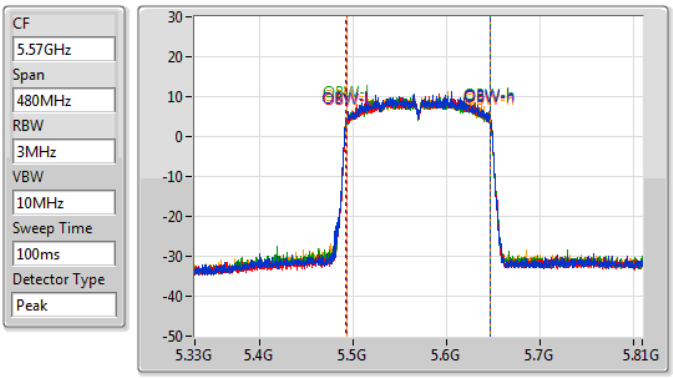


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.64M	5.25G	5.33264G	77.881M	5.2506G	5.328481G	Inf	1
82M	5.25G	5.332G	77.961M	5.25052G	5.328481G	Inf	2
82.32M	5.25G	5.33232G	77.801M	5.25068G	5.328481G	Inf	3
82.24M	5.25G	5.33224G	77.881M	5.2506G	5.328481G	Inf	4

802.11ax HEW160_Nss4,(MCS0)_4TX EBW

5570MHz





26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
164.64M	5.48792G	5.65256G	155.202M	5.492279G	5.647481G	Inf	1
164.88M	5.48744G	5.65232G	154.963M	5.492519G	5.647481G	Inf	2
164.88M	5.4872G	5.65208G	154.963M	5.492519G	5.647481G	Inf	3
163.92M	5.48816G	5.65208G	154.963M	5.492519G	5.647481G	Inf	4

Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	24.98	0.31477	28.92	0.77983
802.11ax HEW20_Nss4,(MCS0)_4TX	28.52	0.71121	32.39	1.73380
802.11ax HEW40_Nss4,(MCS0)_4TX	25.67	0.36898	29.54	0.89950
802.11ax HEW80_Nss4,(MCS0)_4TX	19.40	0.08710	23.27	0.21232
802.11ax HEW160_Nss4,(MCS0)_4TX	16.31	0.04276	20.18	0.10423
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	19.02	0.07980	23.42	0.21979
802.11ax HEW20_Nss4,(MCS0)_4TX	23.84	0.24210	27.80	0.60256
802.11ax HEW40_Nss4,(MCS0)_4TX	23.58	0.22803	27.54	0.56754
802.11ax HEW80_Nss4,(MCS0)_4TX	20.28	0.10666	24.24	0.26546
802.11ax HEW160_Nss4,(MCS0)_4TX	16.24	0.04207	20.20	0.10471
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	18.68	0.07379	23.93	0.24717
802.11ax HEW20_Nss4,(MCS0)_4TX	23.45	0.22131	27.99	0.62951
802.11ax HEW40_Nss4,(MCS0)_4TX	23.44	0.22080	27.98	0.62806
802.11ax HEW80_Nss4,(MCS0)_4TX	23.67	0.23281	28.21	0.66222
802.11ax HEW160_Nss4,(MCS0)_4TX	20.14	0.10328	24.68	0.29376
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	26.25	0.42170	30.79	1.19950
802.11ax HEW20_Nss4,(MCS0)_4TX	27.73	0.59293	31.73	1.48936
802.11ax HEW40_Nss4,(MCS0)_4TX	28.38	0.68865	32.38	1.72982
802.11ax HEW80_Nss4,(MCS0)_4TX	25.37	0.34435	29.37	0.86497

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)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.94	16.52	16.11	16.05	16.18	22.24	30.00	26.18	36.00
5200MHz	Pass	3.94	18.65	18.49	18.28	18.21	24.43	30.00	28.37	36.00
5240MHz	Pass	3.94	19.05	19.01	18.81	18.95	24.98	30.00	28.92	36.00
5260MHz	Pass	4.40	13.11	13.41	12.79	12.55	19.00	24.00	23.40	30.00
5300MHz	Pass	4.40	13.04	13.51	12.53	12.86	19.02	24.00	23.42	30.00
5320MHz	Pass	4.40	13.02	13.47	12.68	12.75	19.01	24.00	23.41	30.00
5500MHz	Pass	5.25	12.48	13.19	12.36	12.33	18.63	24.00	23.88	30.00
5580MHz	Pass	5.25	12.73	12.65	12.57	12.67	18.68	24.00	23.93	30.00
5700MHz	Pass	5.25	12.12	12.35	12.52	12.61	18.42	24.00	23.67	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.25	11.19	11.53	11.64	11.41	17.47	22.80	22.72	28.80
5720MHz Straddle 5.725-5.85GHz	Pass	4.54	5.87	6.08	6.16	5.89	12.02	30.00	16.56	36.00
5745MHz	Pass	4.54	19.95	20.12	20.44	20.39	26.25	30.00	30.79	36.00
5785MHz	Pass	4.54	19.75	20.02	20.35	20.27	26.12	30.00	30.66	36.00
5825MHz	Pass	4.54	19.61	19.92	20.19	20.01	25.96	30.00	30.50	36.00
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.87	18.01	17.68	17.46	17.35	23.65	30.00	27.52	36.00
5200MHz	Pass	3.87	20.56	20.31	20.21	20.26	26.36	30.00	30.23	36.00
5240MHz	Pass	3.87	22.54	22.76	22.25	22.42	28.52	30.00	32.39	36.00
5260MHz	Pass	3.96	17.71	17.92	17.63	17.42	23.69	24.00	27.65	30.00
5300MHz	Pass	3.96	18.01	18.06	17.39	17.76	23.83	24.00	27.79	30.00
5320MHz	Pass	3.96	18.11	18.21	17.38	17.51	23.84	24.00	27.80	30.00
5500MHz	Pass	4.54	17.76	17.55	17.1	17.28	23.45	24.00	27.99	30.00
5580MHz	Pass	4.54	17.58	17.28	17.24	17.58	23.44	24.00	27.98	30.00
5700MHz	Pass	4.54	17.48	17.42	17.29	17.52	23.45	24.00	27.99	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.54	15.54	15.87	16	16.38	21.98	22.95	26.52	28.95
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	11.27	11.57	11.72	12.08	17.69	30.00	21.69	36.00
5745MHz	Pass	4.00	21.41	21.52	21.92	21.96	27.73	30.00	31.73	36.00
5785MHz	Pass	4.00	20.83	20.95	21.46	21.57	27.23	30.00	31.23	36.00
5825MHz	Pass	4.00	20.47	20.53	20.91	21.02	26.76	30.00	30.76	36.00
802.11ax HEW40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.87	14.53	14.38	14.19	14.02	20.30	30.00	24.17	36.00
5230MHz	Pass	3.87	19.62	19.98	19.68	19.29	25.67	30.00	29.54	36.00
5270MHz	Pass	3.96	17.51	17.86	17.58	17.26	23.58	24.00	27.54	30.00
5310MHz	Pass	3.96	15.35	15.71	15.12	15.13	21.35	24.00	25.31	30.00
5510MHz	Pass	4.54	15.32	15.57	15.15	15.1	21.31	24.00	25.85	30.00

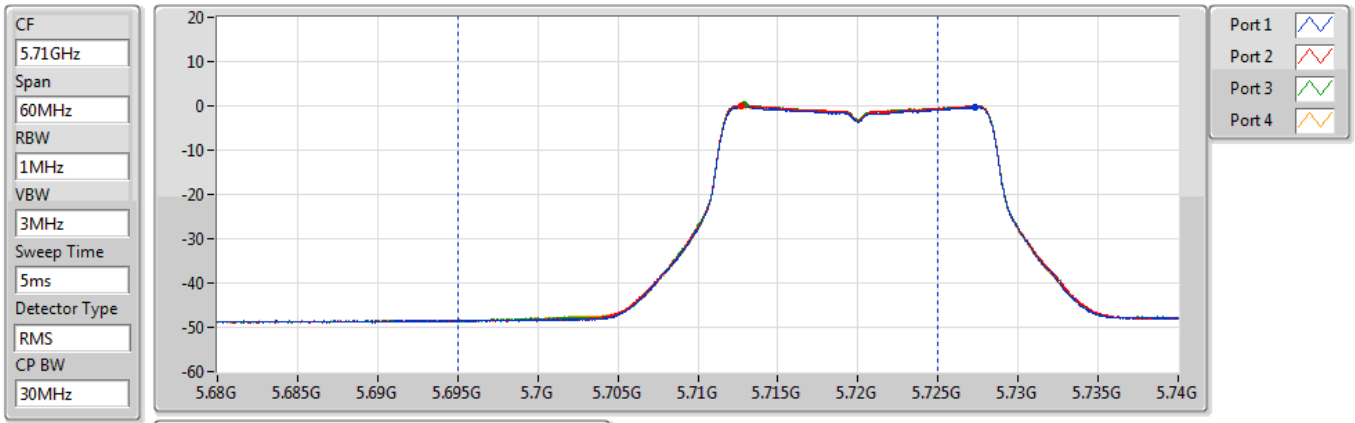
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5590MHz	Pass	4.54	17.45	17.39	17.22	17.51	23.41	24.00	27.95	30.00
5670MHz	Pass	4.54	17.41	17.42	17.45	17.41	23.44	24.00	27.98	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.54	16.87	17.22	17.5	17.89	23.41	24.00	27.95	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	6.41	6.75	7.15	7.46	12.98	30.00	16.98	36.00
5755MHz	Pass	4.00	22.19	22.35	22.43	22.48	28.38	30.00	32.38	36.00
5795MHz	Pass	4.00	22.02	22.04	22.29	22.46	28.23	30.00	32.23	36.00
802.11ax HEW80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.87	13.49	13.52	13.36	13.12	19.40	30.00	23.27	36.00
5290MHz	Pass	3.96	14.26	14.65	14.02	14.06	20.28	24.00	24.24	30.00
5530MHz	Pass	4.54	14.96	14.74	14.84	14.89	20.88	24.00	25.42	30.00
5610MHz	Pass	4.54	17.58	17.46	17.29	17.44	23.46	24.00	28.00	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.54	17.2	17.54	17.81	18.02	23.67	24.00	28.21	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	3.11	3.56	3.85	4.06	9.68	30.00	13.68	36.00
5775MHz	Pass	4.00	19.14	19.24	19.61	19.41	25.37	30.00	29.37	36.00
802.11ax HEW160_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	3.87	10.16	10.62	10.36	9.99	16.31	30.00	20.18	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	3.96	10.26	10.74	10.06	9.75	16.24	24.00	20.20	30.00
5570MHz	Pass	4.54	14.16	14.12	14.04	14.15	20.14	24.00	24.68	30.00

Port X = Port X output power
DG = Directional Gain
For 802.11ax
Directional Gain = 10 log $[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10})/N_{ANT}]$

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
4	3.75	4.02	5.07	4.44
6	3.94	4.4	4.54	3.9
7	3.86	3.76	3.89	3.91
8	3.94	3.64	4.58	3.73
Directional Gain (dBi)	3.87	3.96	4.54	4

802.11a_Nss1,(6Mbps)_4TX AV Power

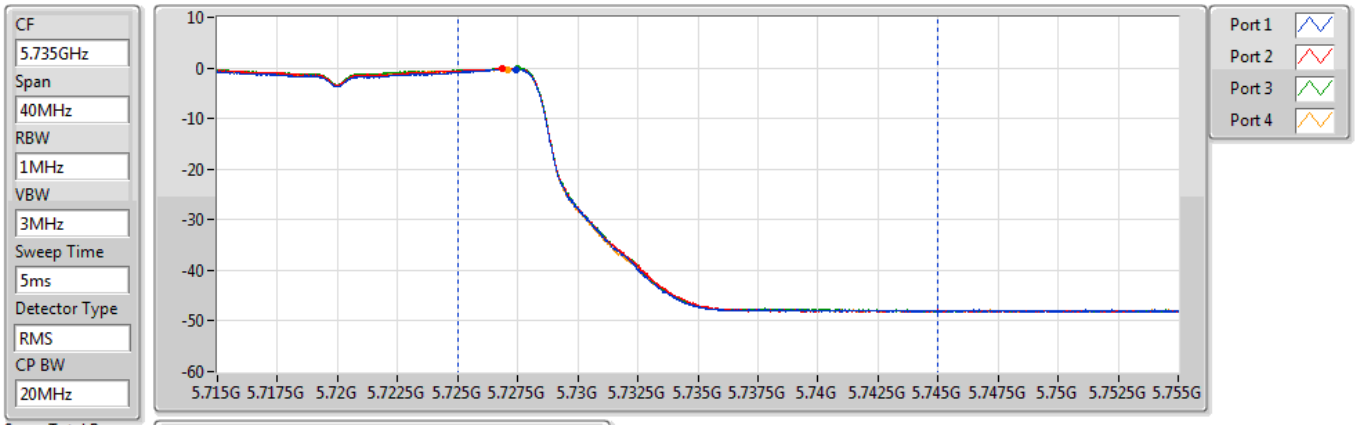
5720MHz Straddle 5.47-5.725GHz_TnomVnom



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.47	11.19	11.53	11.64	11.41

802.11a_Nss1,(6Mbps)_4TX AV Power

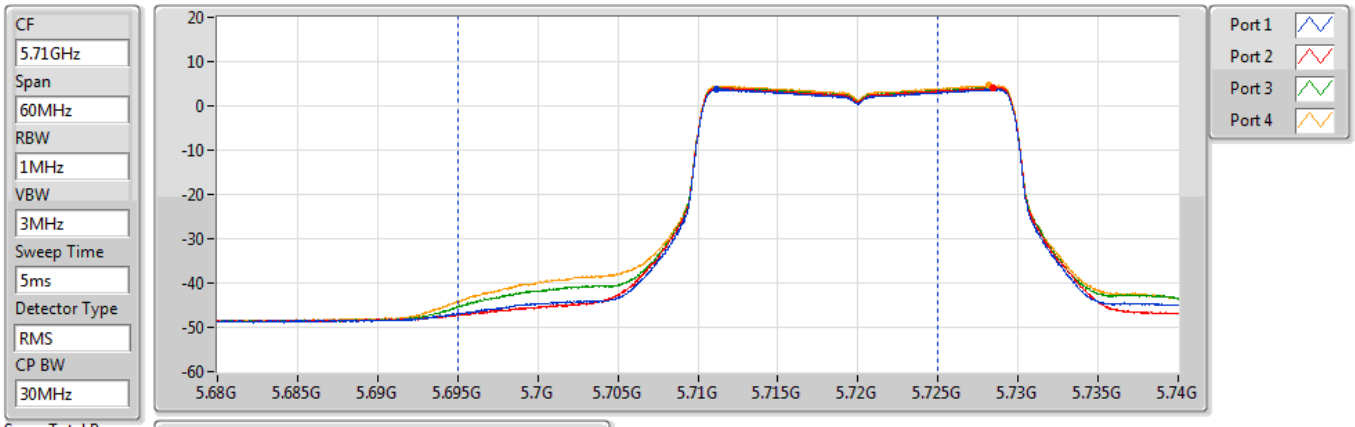
5720MHz Straddle 5.725-5.85GHz_TnomVnom



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
12.02	5.87	6.08	6.16	5.89

802.11ax HEW20_Nss4,(MCS0)_4TX AV Power

5720MHz Straddle 5.47-5.725GHz_TnomVnom

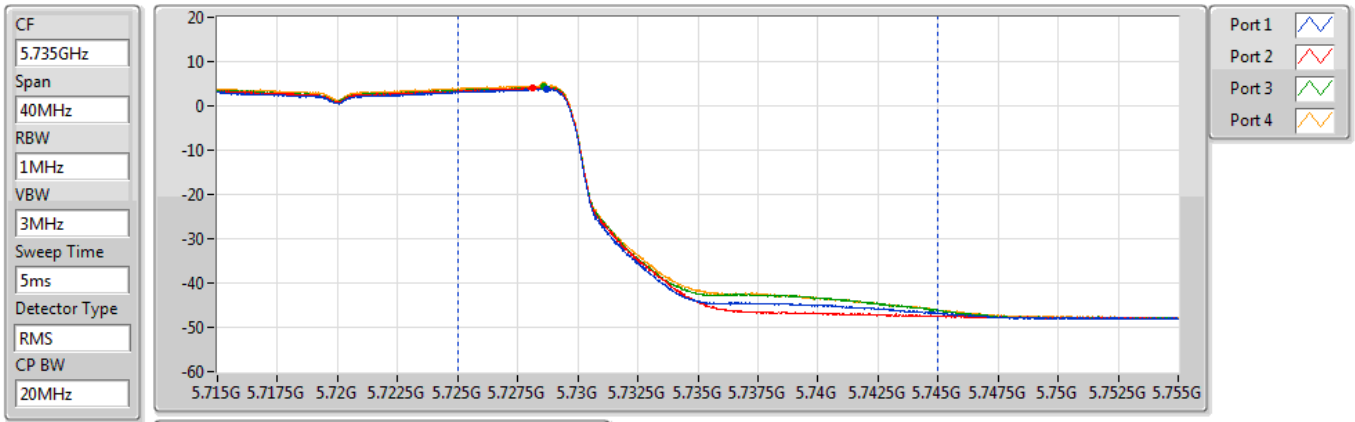


Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
21.98	15.54	15.87	16.00	16.38

802.11ax HEW20_Nss4,(MCS0)_4TX AV Power

5720MHz Straddle 5.725-5.85GHz_TnomVnom

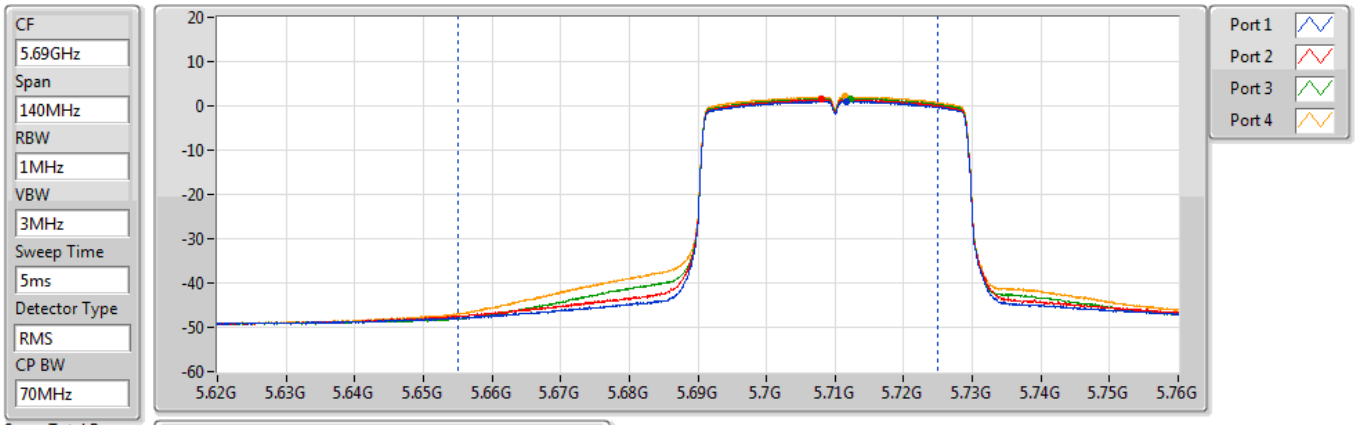


Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
17.69	11.27	11.57	11.72	12.08

802.11ax HEW40_Nss4,(MCS0)_4TX AV Power

5710MHz Straddle 5.47-5.725GHz_TnomVnom

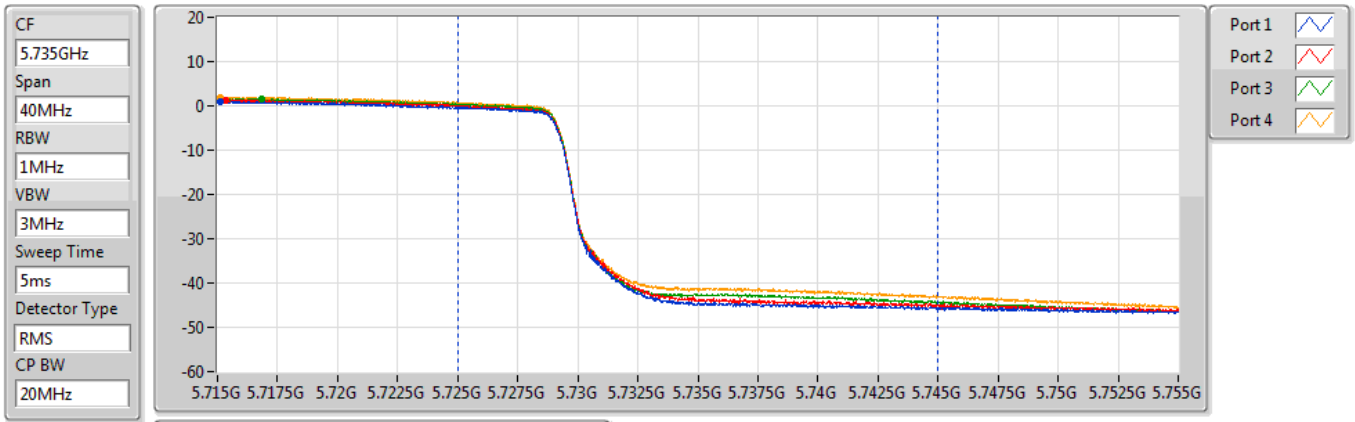


Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.41	16.87	17.22	17.50	17.89

802.11ax HEW40_Nss4,(MCS0)_4TX AV Power

5710MHz Straddle 5.725-5.85GHz_TnomVnom

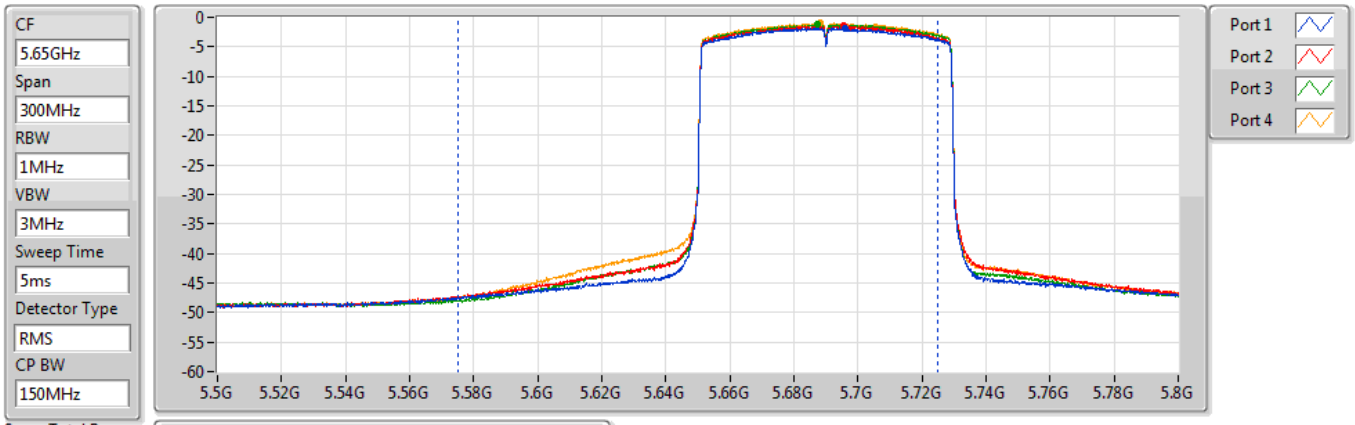


Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
12.98	6.41	6.75	7.15	7.46

802.11ax HEW80_Nss4,(MCS0)_4TX AV Power

5690MHz Straddle 5.47-5.725GHz_TnomVnom

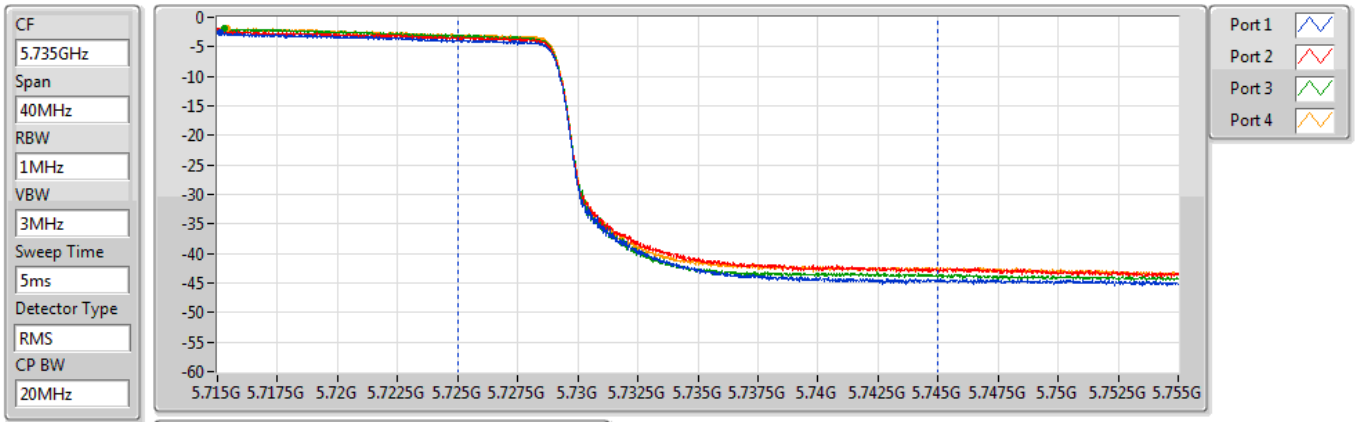


Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.67	17.20	17.54	17.81	18.02

802.11ax HEW80_Nss4,(MCS0)_4TX AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom

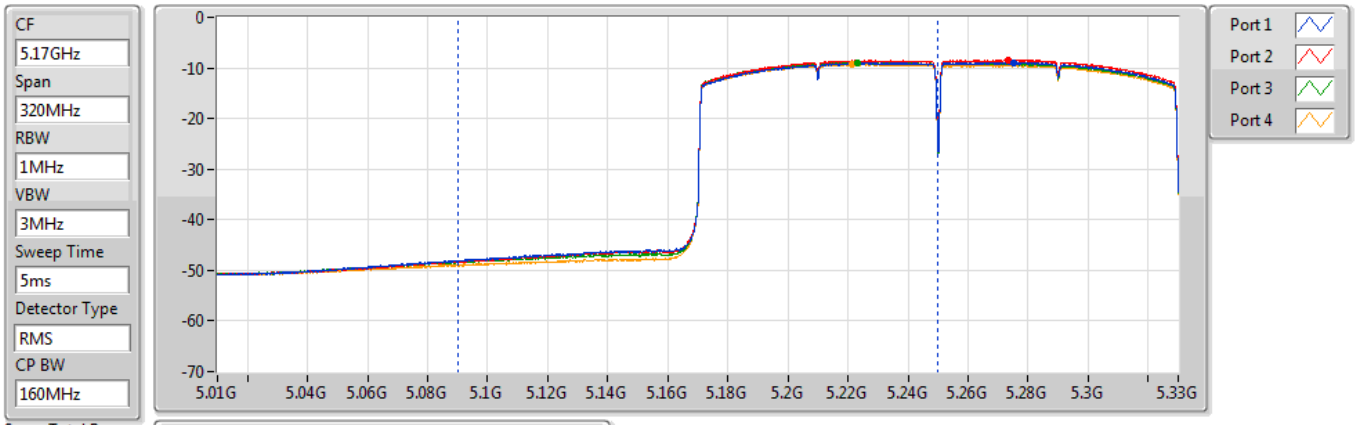


Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
9.68	3.11	3.56	3.85	4.06

802.11ax HEW160_Nss4,(MCS0)_4TX AV Power

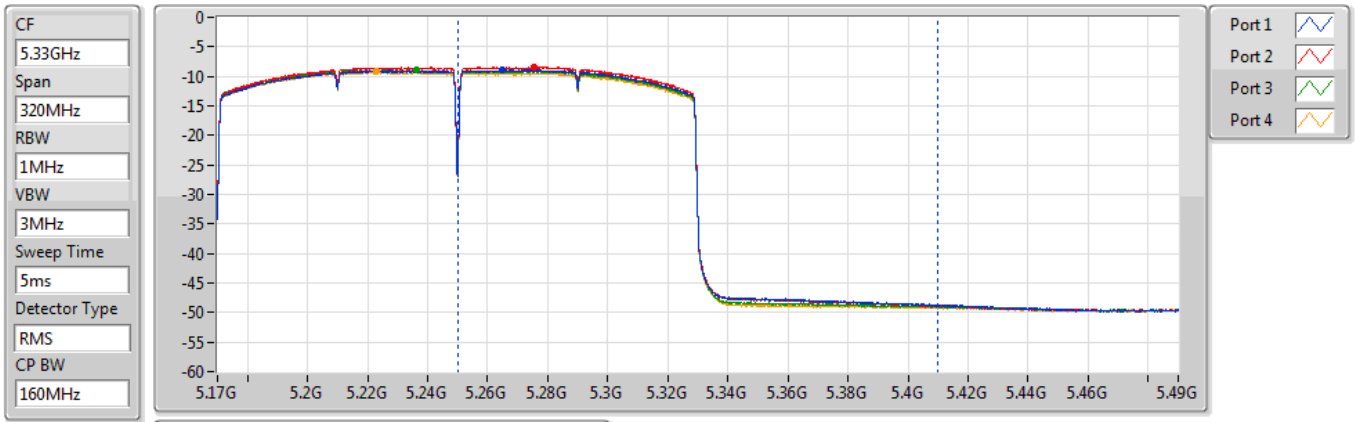
5250MHz Straddle 5.15-5.25GHz_TnomVnom



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
16.31	10.16	10.62	10.36	9.99

802.11ax HEW160_Nss4,(MCS0)_4TX AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom



Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
16.24	10.26	10.74	10.06	9.75

Beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	22.50	0.17783	26.37	0.43351
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	19.65	0.09226	23.52	0.22491
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	13.38	0.02178	17.25	0.05309
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	10.29	0.01069	14.16	0.02606
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	17.82	0.06053	21.78	0.15066
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	17.56	0.05702	21.52	0.14191
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	14.26	0.02667	18.22	0.06637
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	10.22	0.01052	14.18	0.02618
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	17.43	0.05534	21.97	0.15740
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	17.42	0.05521	21.96	0.15704
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	17.65	0.05821	22.19	0.16558
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	14.12	0.02582	18.66	0.07345
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	21.71	0.14825	25.71	0.37239
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	22.36	0.17219	26.36	0.43251
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	19.35	0.08610	23.35	0.21627

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)
802.11ax HEW20-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.87	11.99	11.66	11.44	11.33	17.63	30.00	21.50	36.00
5200MHz	Pass	3.87	14.54	14.29	14.19	14.24	20.34	30.00	24.21	36.00
5240MHz	Pass	3.87	16.52	16.74	16.23	16.4	22.50	30.00	26.37	36.00
5260MHz	Pass	3.96	11.69	11.9	11.61	11.4	17.67	24.00	21.63	30.00
5300MHz	Pass	3.96	11.99	12.04	11.37	11.74	17.81	24.00	21.77	30.00
5320MHz	Pass	3.96	12.09	12.19	11.36	11.49	17.82	24.00	21.78	30.00
5500MHz	Pass	4.54	11.74	11.53	11.08	11.26	17.43	24.00	21.97	30.00
5580MHz	Pass	4.54	11.56	11.26	11.22	11.56	17.42	24.00	21.96	30.00
5700MHz	Pass	4.54	11.46	11.4	11.27	11.5	17.43	24.00	21.97	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.54	9.52	9.85	9.98	10.36	15.96	24.00	20.50	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	5.25	5.55	5.7	6.06	11.67	30.00	15.67	36.00
5745MHz	Pass	4.00	15.39	15.5	15.9	15.94	21.71	30.00	25.71	36.00
5785MHz	Pass	4.00	14.81	14.93	15.44	15.55	21.21	30.00	25.21	36.00
5825MHz	Pass	4.00	14.45	14.51	14.89	15	20.74	30.00	24.74	36.00
802.11ax HEW40-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.87	8.51	8.36	8.17	8	14.28	30.00	18.15	36.00
5230MHz	Pass	3.87	13.6	13.96	13.66	13.27	19.65	30.00	23.52	36.00
5270MHz	Pass	3.96	11.49	11.84	11.56	11.24	17.56	24.00	21.52	30.00
5310MHz	Pass	3.96	9.33	9.69	9.1	9.11	15.33	24.00	19.29	30.00
5510MHz	Pass	4.54	9.3	9.55	9.13	9.08	15.29	24.00	19.83	30.00
5590MHz	Pass	4.54	11.43	11.37	11.2	11.49	17.39	24.00	21.93	30.00
5670MHz	Pass	4.54	11.39	11.4	11.43	11.39	17.42	24.00	21.96	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.54	10.85	11.2	11.48	11.87	17.39	24.00	21.93	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	0.39	0.73	1.13	1.44	6.96	30.00	10.96	36.00
5755MHz	Pass	4.00	16.17	16.33	16.41	16.46	22.36	30.00	26.36	36.00
5795MHz	Pass	4.00	16	16.02	16.27	16.44	22.21	30.00	26.21	36.00
802.11ax HEW80-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.87	7.47	7.5	7.34	7.1	13.38	30.00	17.25	36.00
5290MHz	Pass	3.96	8.24	8.63	8	8.04	14.26	24.00	18.22	30.00
5530MHz	Pass	4.54	8.94	8.72	8.82	8.87	14.86	24.00	19.40	30.00
5610MHz	Pass	4.54	11.56	11.44	11.27	11.42	17.44	24.00	21.98	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.54	11.18	11.52	11.79	12	17.65	24.00	22.19	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	-2.91	-2.46	-2.17	-1.96	3.66	30.00	7.66	36.00

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)
5775MHz	Pass	4.00	13.12	13.22	13.59	13.39	19.35	30.00	23.35	36.00
802.11ax HEW160-BF_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	3.87	4.14	4.6	4.34	3.97	10.29	30.00	14.16	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	3.96	4.24	4.72	4.04	3.73	10.22	24.00	14.18	30.00
5570MHz	Pass	4.54	8.14	8.1	8.02	8.13	14.12	24.00	18.66	30.00

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

For 802.11a

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

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
4	3.75	4.02	5.07	4.44
6	3.94	4.4	4.54	3.9
7	3.86	3.76	3.89	3.91
8	3.94	3.64	4.58	3.73
Directional Gain (dBi)	3.87	3.96	4.54	4

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	12.94	22.83
802.11ax HEW20_Nss4,(MCS0)_4TX	15.53	19.40
802.11ax HEW40_Nss4,(MCS0)_4TX	9.93	13.80
802.11ax HEW80_Nss4,(MCS0)_4TX	0.55	4.42
802.11ax HEW160_Nss4,(MCS0)_4TX	-2.26	1.61
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	6.81	16.79
802.11ax HEW20_Nss4,(MCS0)_4TX	10.79	14.75
802.11ax HEW40_Nss4,(MCS0)_4TX	7.54	11.50
802.11ax HEW80_Nss4,(MCS0)_4TX	1.51	5.47
802.11ax HEW160_Nss4,(MCS0)_4TX	-2.32	1.64
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	6.32	16.87
802.11ax HEW20_Nss4,(MCS0)_4TX	10.69	15.23
802.11ax HEW40_Nss4,(MCS0)_4TX	7.56	12.10
802.11ax HEW80_Nss4,(MCS0)_4TX	4.58	9.12
802.11ax HEW160_Nss4,(MCS0)_4TX	-1.52	3.02
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	12.20	22.22
802.11ax HEW20_Nss4,(MCS0)_4TX	13.31	17.31
802.11ax HEW40_Nss4,(MCS0)_4TX	10.82	14.82
802.11ax HEW80_Nss4,(MCS0)_4TX	5.02	9.02

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)	Port 3 (dBm/ RBW)	Port 4 (dBm/ RBW)	PD (dBm/ RBW)	PD Limit (dBm/ RBW)	EIRP PD (dBm/ RBW)	EIRP PD Limit (dBm/ RBW)
802.11a_Nss1,(6Mbps)_4TX										
5180MHz	Pass	9.89	4.75	4.25	3.82	3.72	10.08	13.11	19.97	23.00
5200MHz	Pass	9.89	6.74	6.59	6.12	6.09	12.27	13.11	22.16	23.00
5240MHz	Pass	9.89	7.34	7.53	6.77	6.59	12.94	13.11	22.83	23.00
5260MHz	Pass	9.98	0.95	1.10	0.63	0.24	6.58	7.02	16.56	17.00
5300MHz	Pass	9.98	1.17	1.47	0.38	0.62	6.81	7.02	16.79	17.00
5320MHz	Pass	9.98	0.95	1.33	0.60	0.33	6.67	7.02	16.65	17.00
5500MHz	Pass	10.55	0.31	0.97	0.33	0.13	6.32	6.45	16.87	17.00
5580MHz	Pass	10.55	0.59	0.50	0.36	0.48	6.31	6.45	16.86	17.00
5700MHz	Pass	10.55	-0.15	-0.01	0.17	0.24	5.96	6.45	16.51	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	10.55	-0.02	0.22	0.22	-0.27	5.95	6.45	16.50	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	10.02	-1.71	-1.39	-1.35	-1.66	4.41	25.98	14.43	36.00
5745MHz	Pass	10.02	6.38	6.37	6.39	6.42	12.20	25.98	22.22	36.00
5785MHz	Pass	10.02	6.32	6.25	6.30	6.34	12.20	25.98	22.22	36.00
5825MHz	Pass	10.02	6.34	6.28	6.15	6.20	12.10	25.98	22.12	36.00
802.11ax HEW20_Nss4,(MCS0)_4TX										
5180MHz	Pass	3.87	5.46	5.02	4.70	4.96	10.94	17.00	14.81	23.00
5200MHz	Pass	3.87	7.90	7.72	7.44	7.79	13.57	17.00	17.44	23.00
5240MHz	Pass	3.87	9.62	9.76	9.57	9.50	15.53	17.00	19.40	23.00
5260MHz	Pass	3.96	4.68	4.84	4.60	4.39	10.57	11.00	14.53	17.00
5300MHz	Pass	3.96	5.03	5.26	4.58	5.12	10.79	11.00	14.75	17.00
5320MHz	Pass	3.96	5.27	5.34	4.43	4.72	10.77	11.00	14.73	17.00
5500MHz	Pass	4.54	5.15	4.90	4.43	4.64	10.69	11.00	15.23	17.00
5580MHz	Pass	4.54	4.97	4.63	4.69	4.96	10.62	11.00	15.16	17.00
5700MHz	Pass	4.54	4.62	4.74	4.71	4.91	10.63	11.00	15.17	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.54	3.90	4.19	4.40	4.83	10.09	11.00	14.63	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	2.37	2.73	2.96	3.27	8.75	30.00	12.75	36.00
5745MHz	Pass	4.00	7.37	7.37	7.37	7.82	13.31	30.00	17.31	36.00
5785MHz	Pass	4.00	6.73	6.85	6.83	7.11	12.80	30.00	16.80	36.00
5825MHz	Pass	4.00	6.46	6.62	6.57	6.97	12.46	30.00	16.46	36.00
802.11ax HEW40_Nss4,(MCS0)_4TX										
5190MHz	Pass	3.87	-0.74	-1.28	-1.40	-1.58	4.63	17.00	8.50	23.00
5230MHz	Pass	3.87	4.30	4.31	3.98	3.78	9.93	17.00	13.80	23.00
5270MHz	Pass	3.96	1.88	2.15	1.55	1.14	7.54	11.00	11.50	17.00
5310MHz	Pass	3.96	-0.14	0.02	-0.75	-0.69	5.44	11.00	9.40	17.00
5510MHz	Pass	4.54	0.00	0.20	-0.53	-0.49	5.59	11.00	10.13	17.00
5590MHz	Pass	4.54	1.51	1.46	1.37	1.51	7.32	11.00	11.86	17.00

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)
5670MHz	Pass	4.54	1.54	1.14	1.46	1.62	7.24	11.00	11.78	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.54	1.27	1.58	1.93	2.18	7.56	11.00	12.10	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	-1.73	-1.26	-1.08	-0.70	4.67	30.00	8.67	36.00
5755MHz	Pass	4.00	4.74	4.99	4.87	5.26	10.82	30.00	14.82	36.00
5795MHz	Pass	4.00	4.64	4.82	4.94	5.26	10.70	30.00	14.70	36.00
802.11ax HEW80_Nss4,(MCS0)_4TX										
5210MHz	Pass	3.87	-4.95	-5.50	-5.24	-5.44	0.55	17.00	4.42	23.00
5290MHz	Pass	3.96	-4.04	-3.95	-4.68	-4.69	1.51	11.00	5.47	17.00
5530MHz	Pass	4.54	-3.50	-3.70	-4.08	-4.00	1.99	11.00	6.53	17.00
5610MHz	Pass	4.54	-1.22	-1.35	-1.50	-1.24	4.47	11.00	9.01	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.54	-1.74	-1.42	-1.18	-0.98	4.58	11.00	9.12	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	-5.13	-4.90	-4.20	-4.33	1.21	30.00	5.21	36.00
5775MHz	Pass	4.00	-1.18	-0.79	-0.82	-0.43	5.02	30.00	9.02	36.00
802.11ax HEW160_Nss4,(MCS0)_4TX										
5250MHz Straddle 5.15-5.25GHz	Pass	3.87	-8.08	-7.76	-8.26	-8.45	-2.26	17.00	1.61	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	3.96	-7.99	-7.82	-8.20	-8.70	-2.32	11.00	1.64	17.00
5570MHz	Pass	4.54	-7.17	-7.35	-7.58	-7.23	-1.52	11.00	3.02	17.00

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

DG = Directional Gain
For 802.11a
DG = Directional Gain = 10 log $[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/N_{ANT}]$

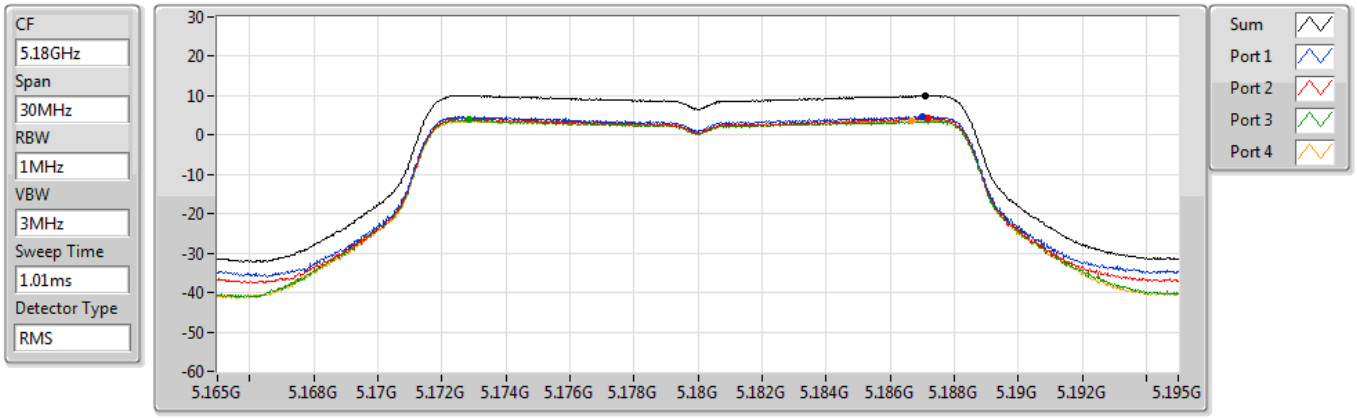
Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
4	3.75	4.02	5.07	4.44
6	3.94	4.4	4.54	3.9
7	3.86	3.76	3.89	3.91
8	3.94	3.64	4.58	3.73
Directional Gain (dBi)	9.89	9.98	10.55	10.02

For 802.11ax
Directional Gain = 10 log $[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10})/N_{ANT}]$

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
4	3.75	4.02	5.07	4.44
6	3.94	4.4	4.54	3.9
7	3.86	3.76	3.89	3.91
8	3.94	3.64	4.58	3.73
Directional Gain (dBi)	3.87	3.96	4.54	4

802.11a_Nss1,(6Mbps)_4TX PSD

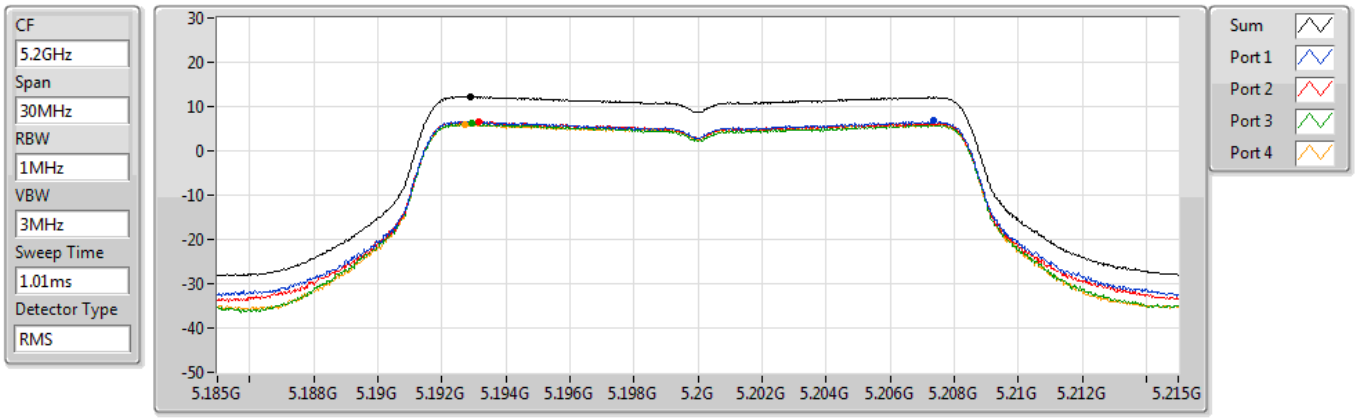
5180MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.08	10.08	4.75	4.25	3.82	3.72

802.11a_Nss1,(6Mbps)_4TX PSD

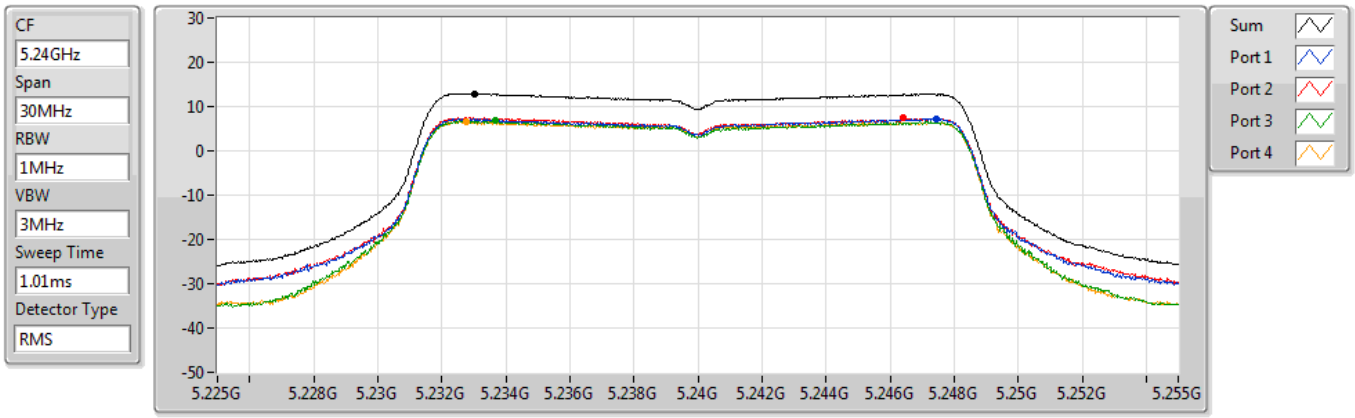
5200MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.27	12.27	6.74	6.59	6.12	6.09

802.11a_Nss1,(6Mbps)_4TX PSD

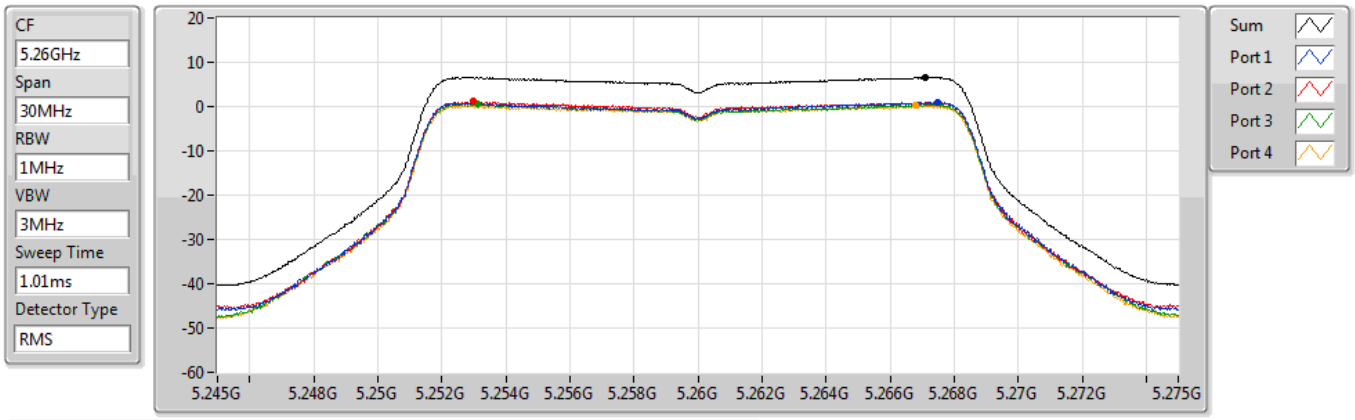
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.94	12.94	7.34	7.53	6.77	6.59

802.11a_Nss1,(6Mbps)_4TX PSD

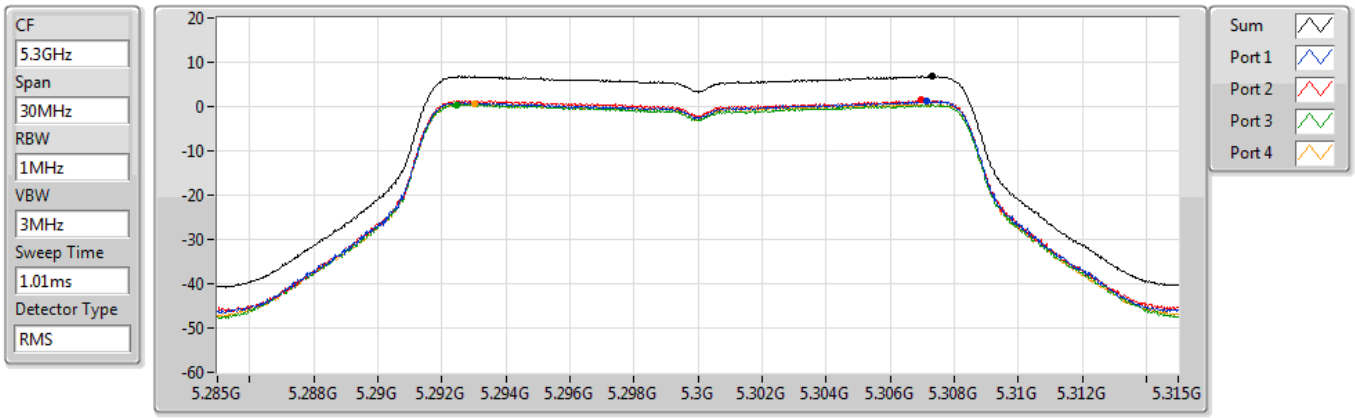
5260MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.58	6.58	0.95	1.10	0.63	0.24

802.11a_Nss1,(6Mbps)_4TX PSD

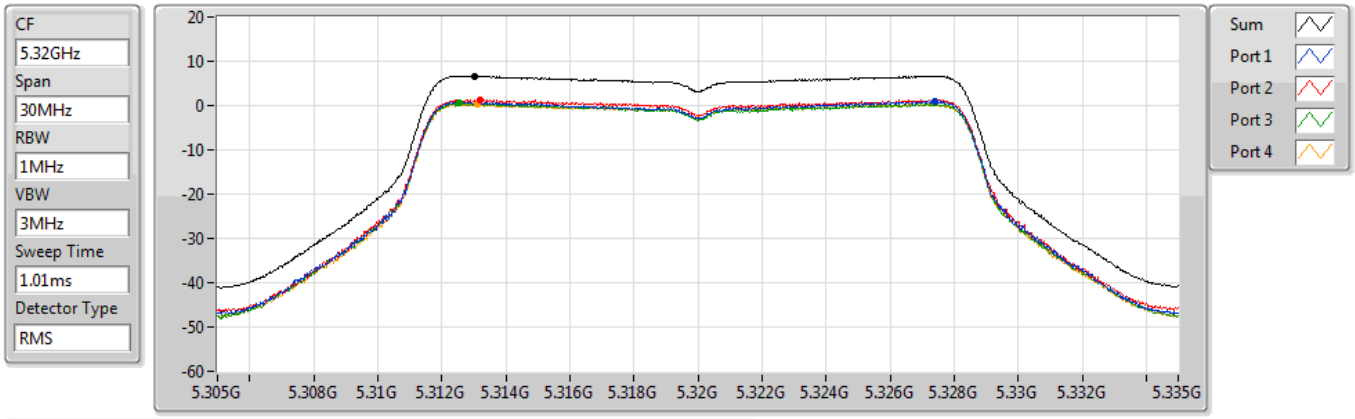
5300MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.81	6.81	1.17	1.47	0.38	0.62

802.11a_Nss1,(6Mbps)_4TX PSD

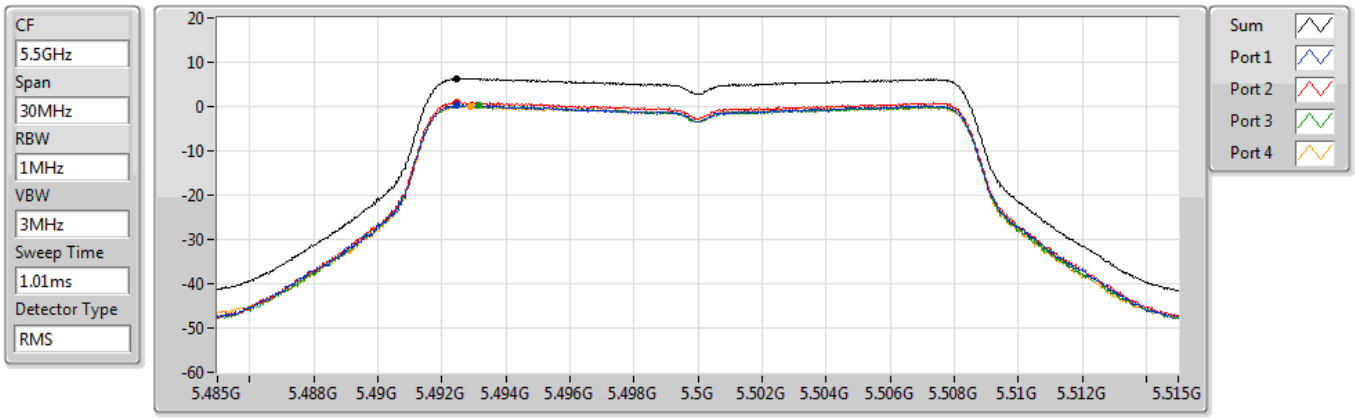
5320MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.67	6.67	0.95	1.33	0.60	0.33

802.11a_Nss1,(6Mbps)_4TX PSD

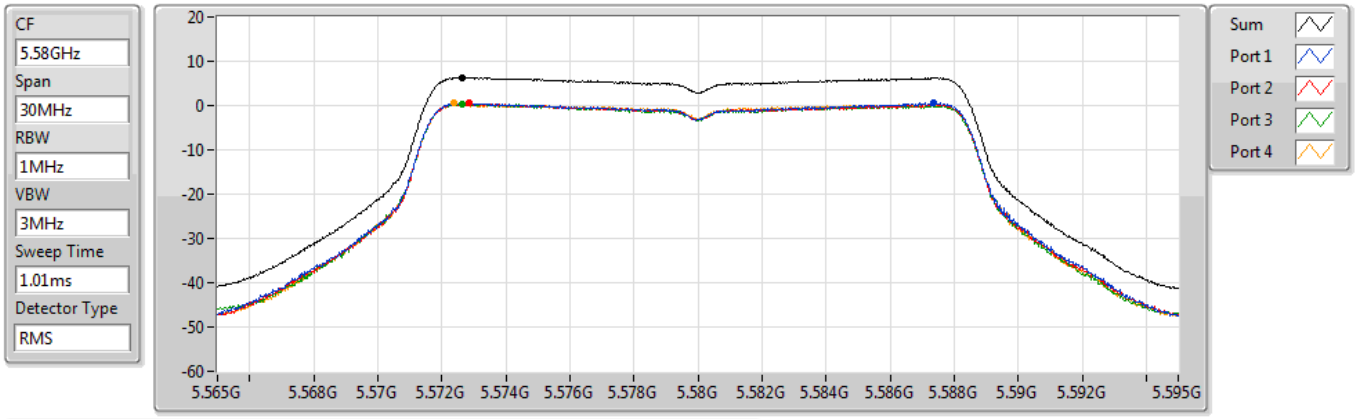
5500MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.32	6.32	0.31	0.97	0.33	0.13

802.11a_Nss1,(6Mbps)_4TX PSD

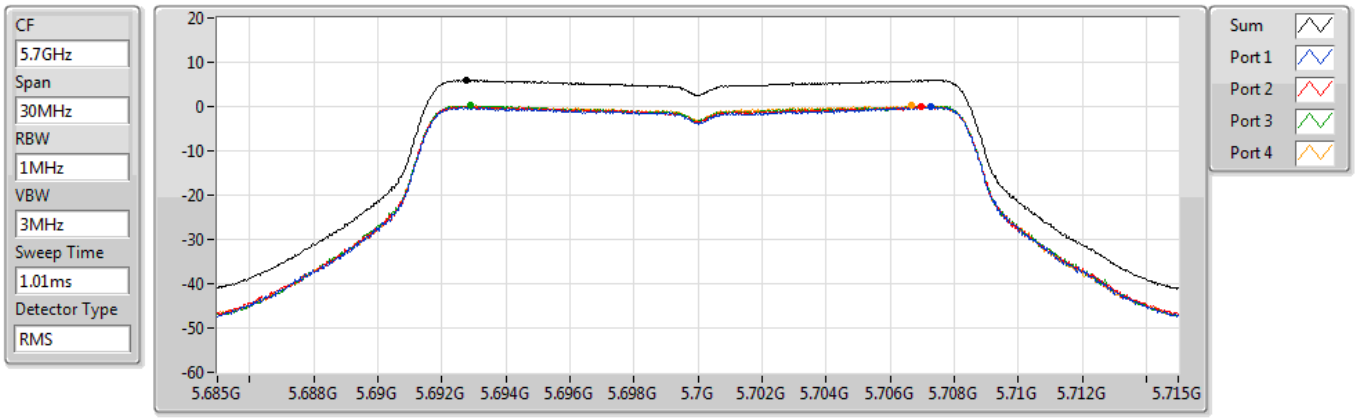
5580MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.31	6.31	0.59	0.50	0.36	0.48

802.11a_Nss1,(6Mbps)_4TX PSD

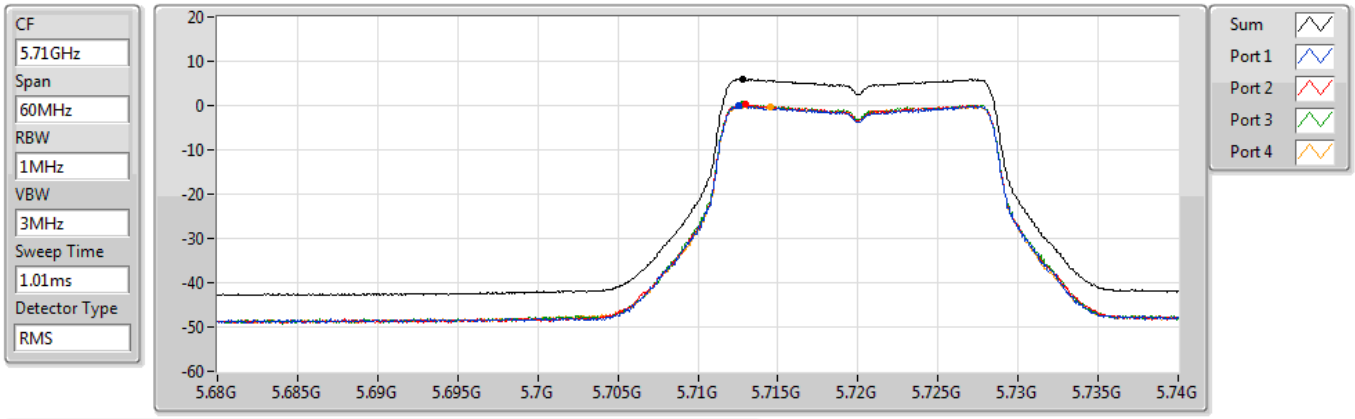
5700MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.96	5.96	-0.15	-0.01	0.17	0.24

802.11a_Nss1,(6Mbps)_4TX PSD

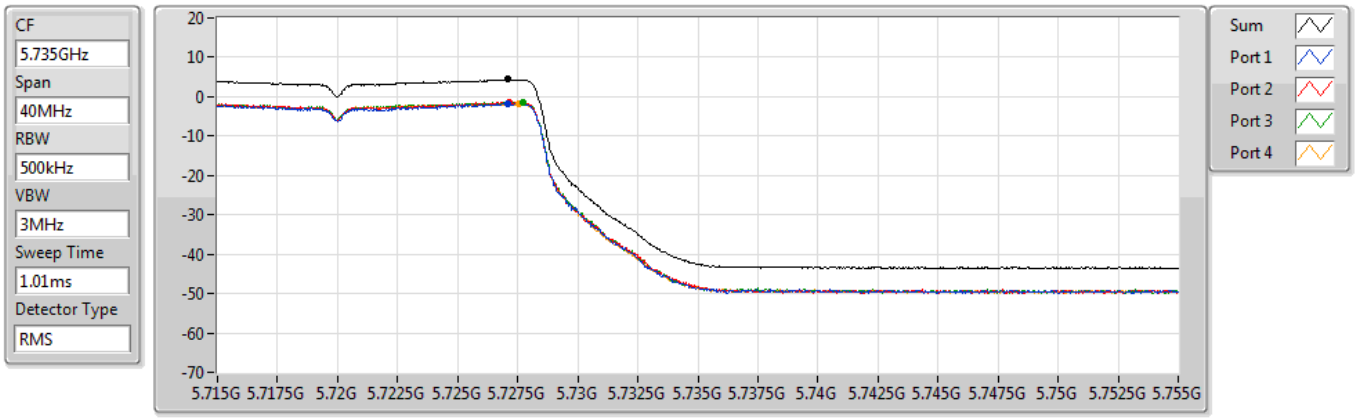
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.95	5.95	-0.02	0.22	0.22	-0.27

802.11a_Nss1,(6Mbps)_4TX PSD

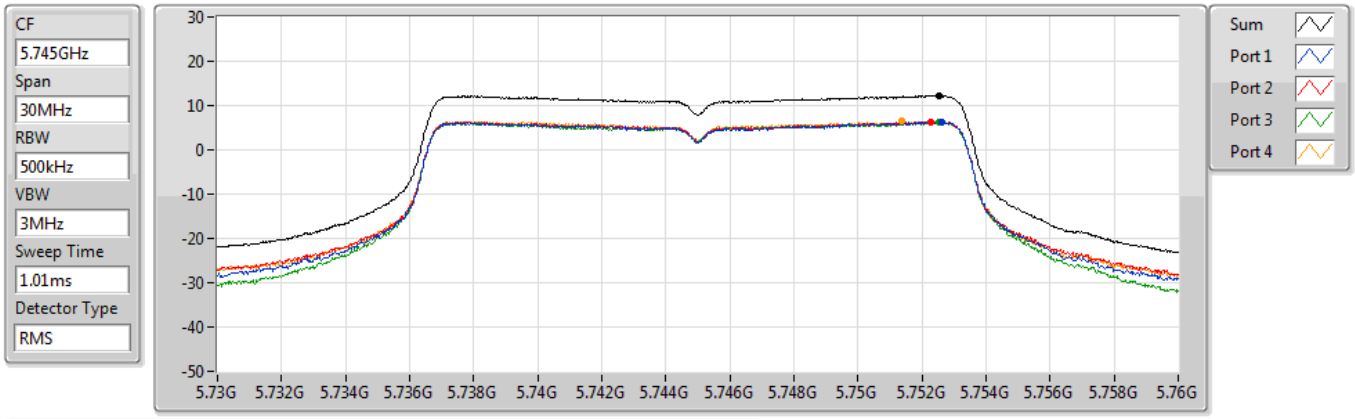
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.41	4.41	-1.71	-1.39	-1.35	-1.66

802.11a_Nss1,(6Mbps)_4TX PSD

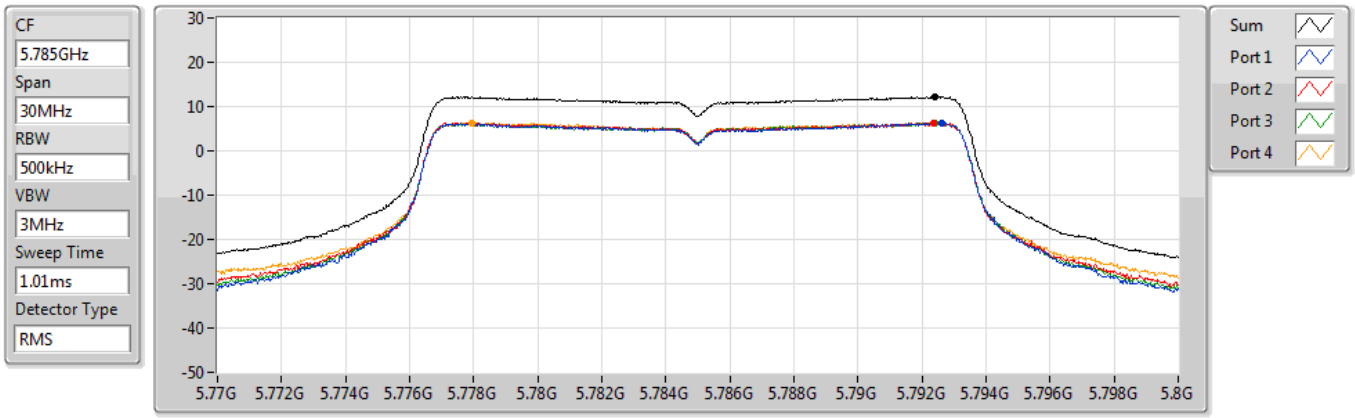
5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.20	12.20	6.38	6.37	6.39	6.42

802.11a_Nss1,(6Mbps)_4TX PSD

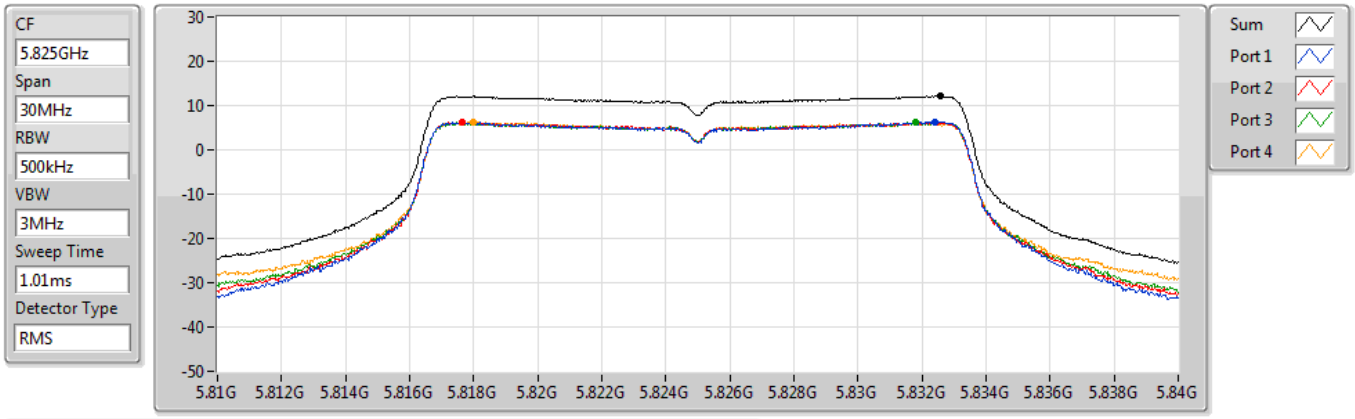
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.20	12.20	6.32	6.25	6.30	6.34

802.11a_Nss1,(6Mbps)_4TX PSD

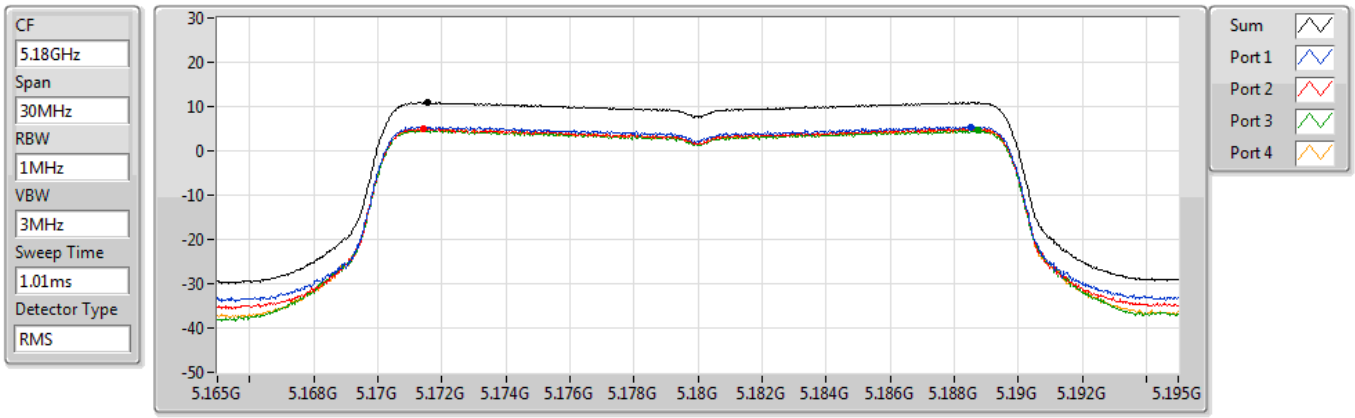
5825MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.10	12.10	6.34	6.28	6.15	6.20

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

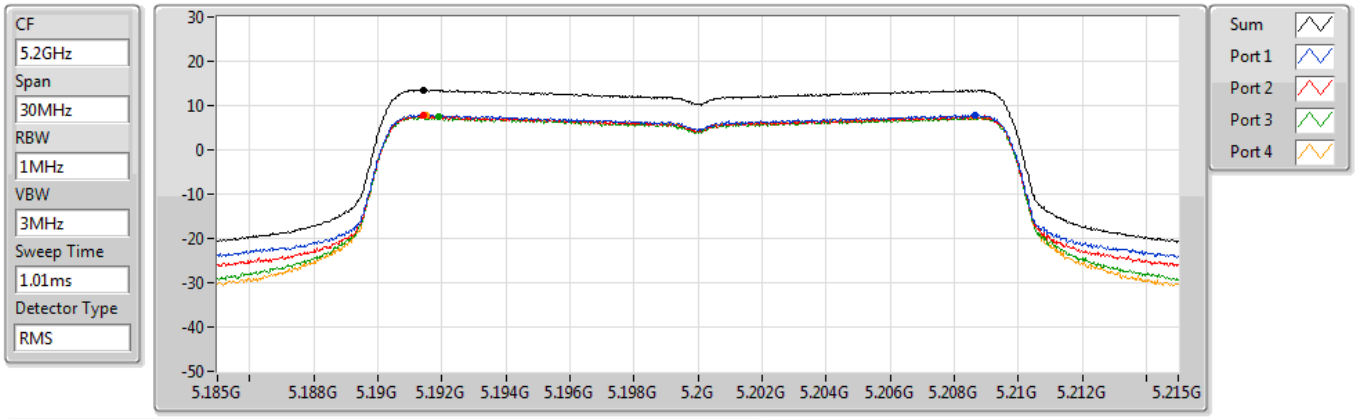
5180MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.94	10.94	5.46	5.02	4.70	4.96

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

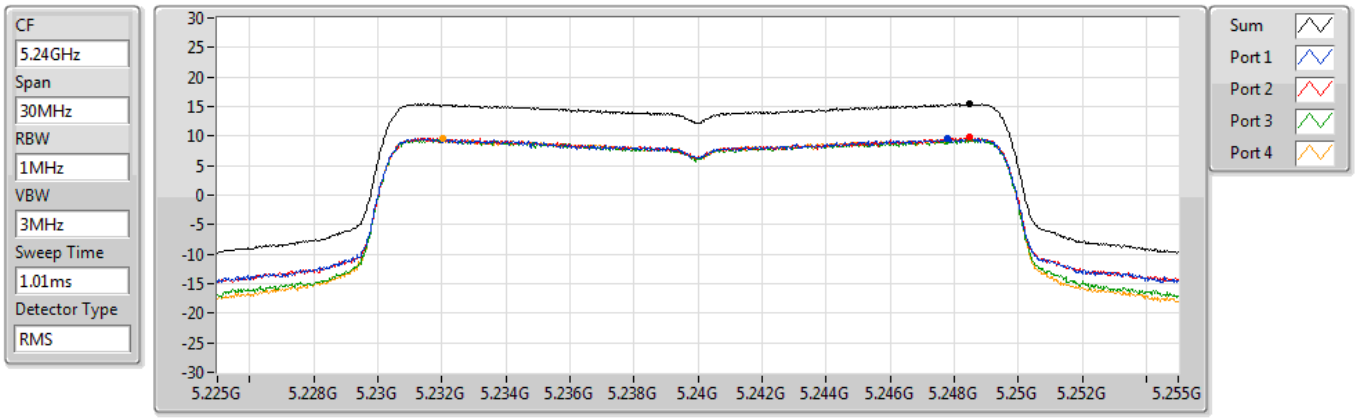
5200MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.57	13.57	7.90	7.72	7.44	7.79

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

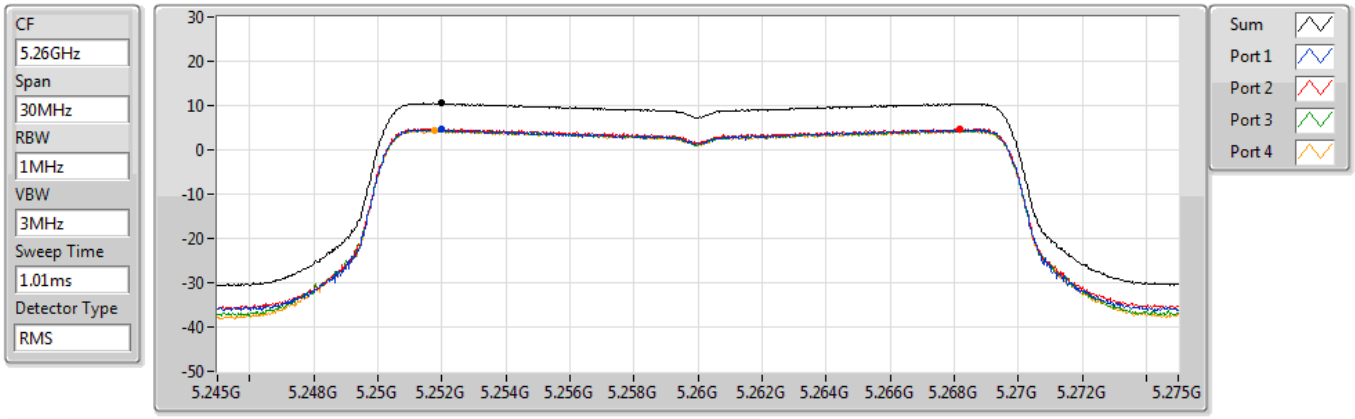
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.53	15.53	9.62	9.76	9.57	9.50

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

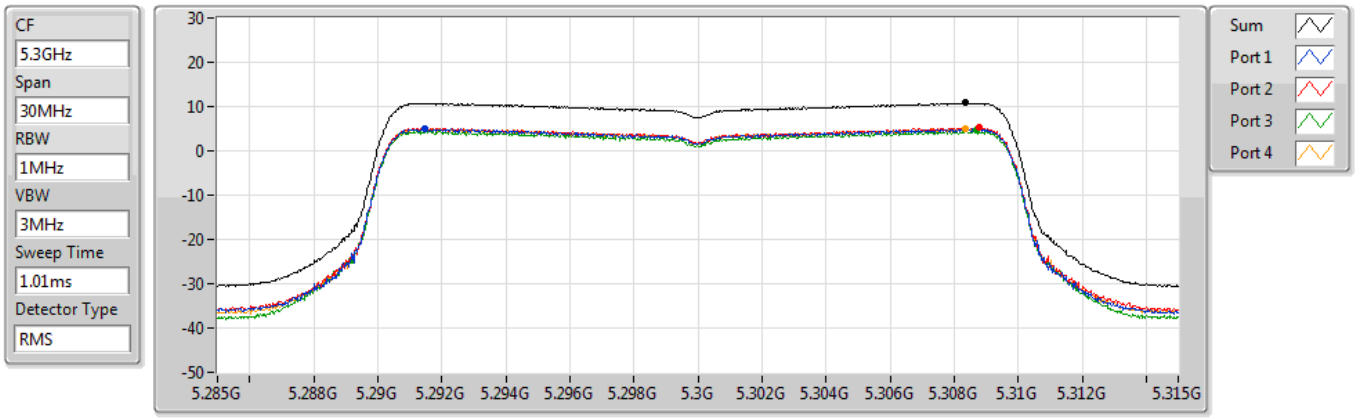
5260MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.57	10.57	4.68	4.84	4.60	4.39

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

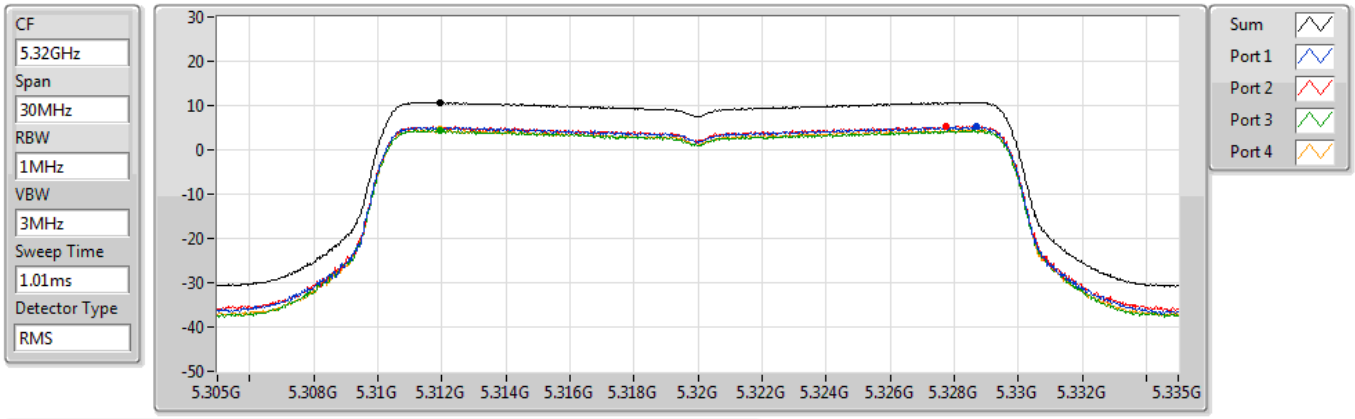
5300MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.79	10.79	5.03	5.26	4.58	5.12

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

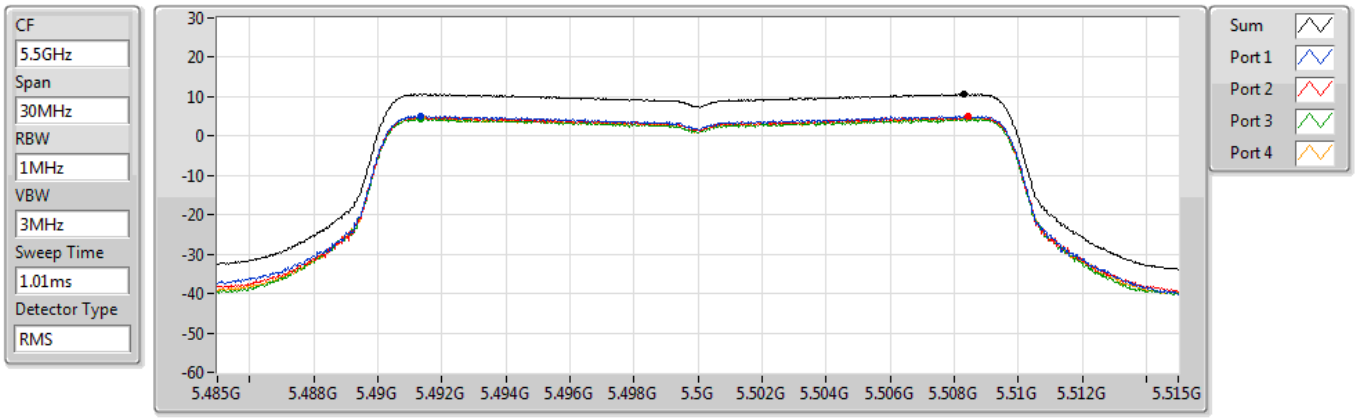
5320MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.77	10.77	5.27	5.34	4.43	4.72

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

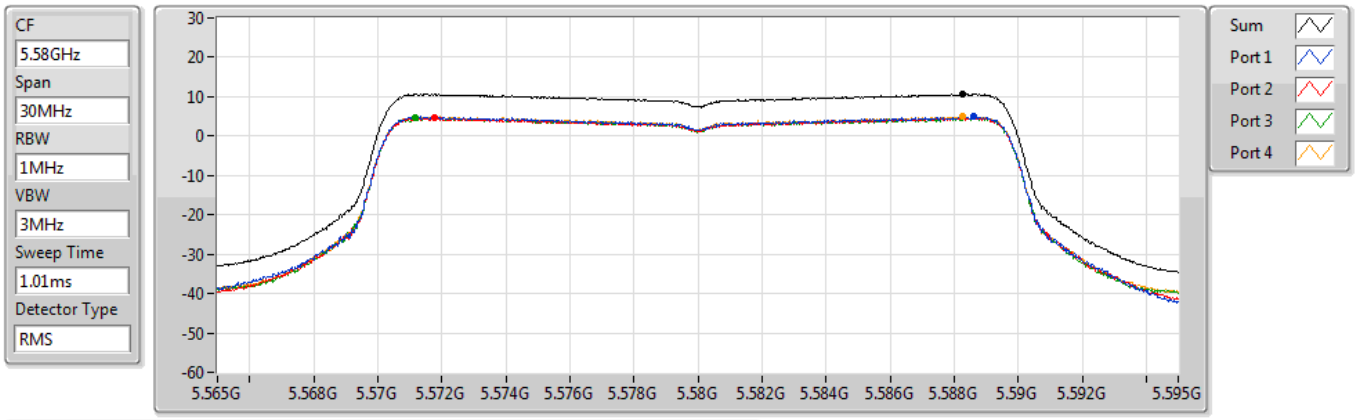
5500MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.69	10.69	5.15	4.90	4.43	4.64

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

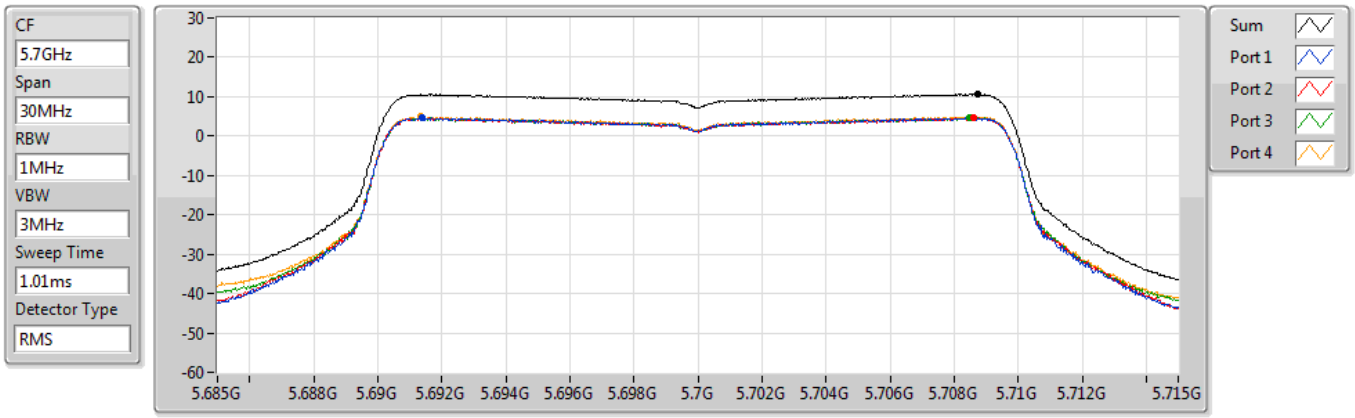
5580MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.62	10.62	4.97	4.63	4.69	4.96

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

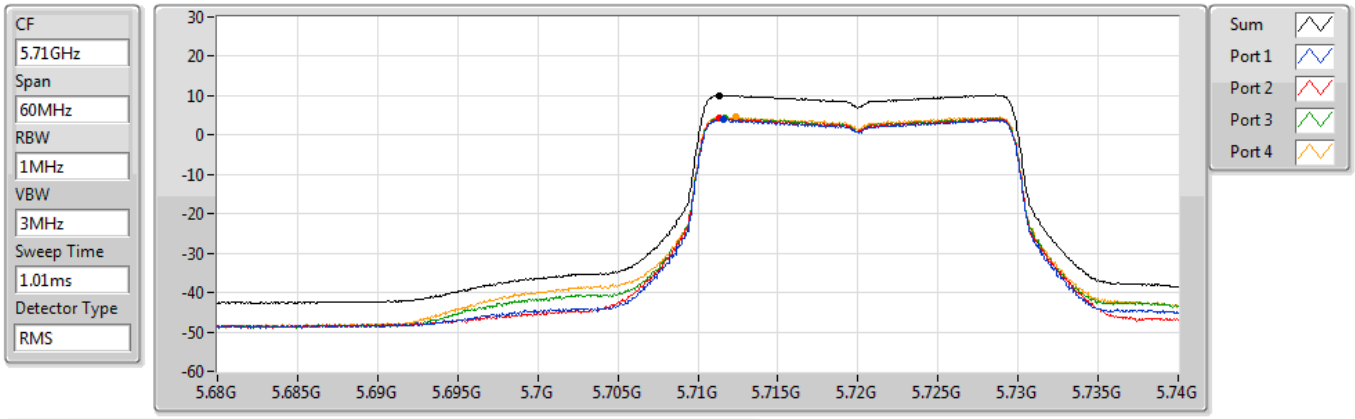
5700MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.63	10.63	4.62	4.74	4.71	4.91

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

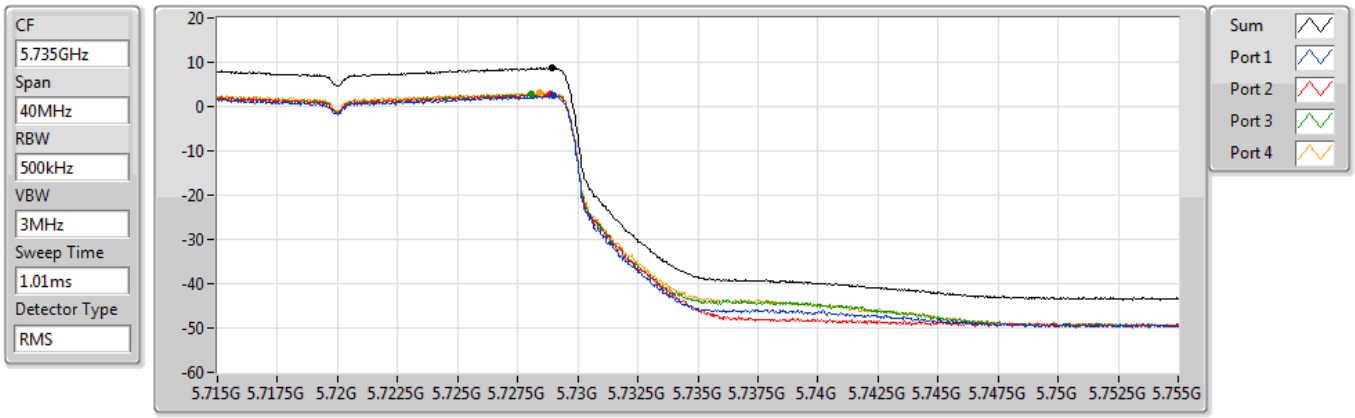
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.09	10.09	3.90	4.19	4.40	4.83

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

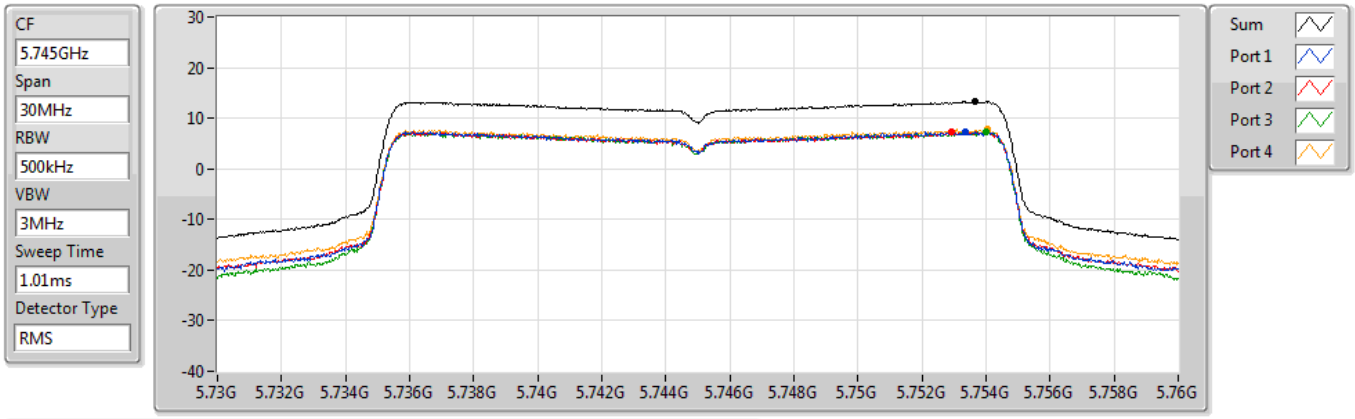
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.75	8.75	2.37	2.73	2.96	3.27

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

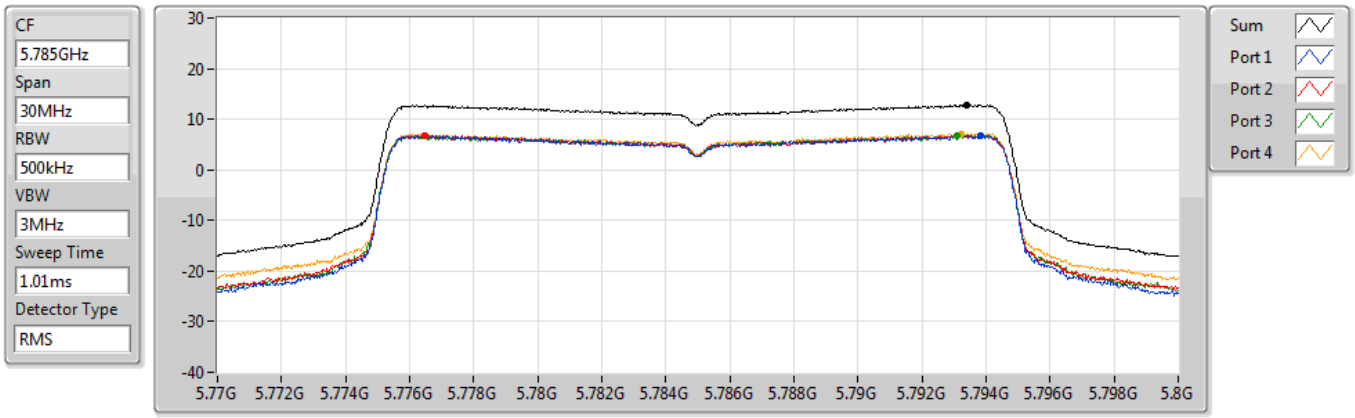
5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.31	13.31	7.37	7.37	7.37	7.82

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

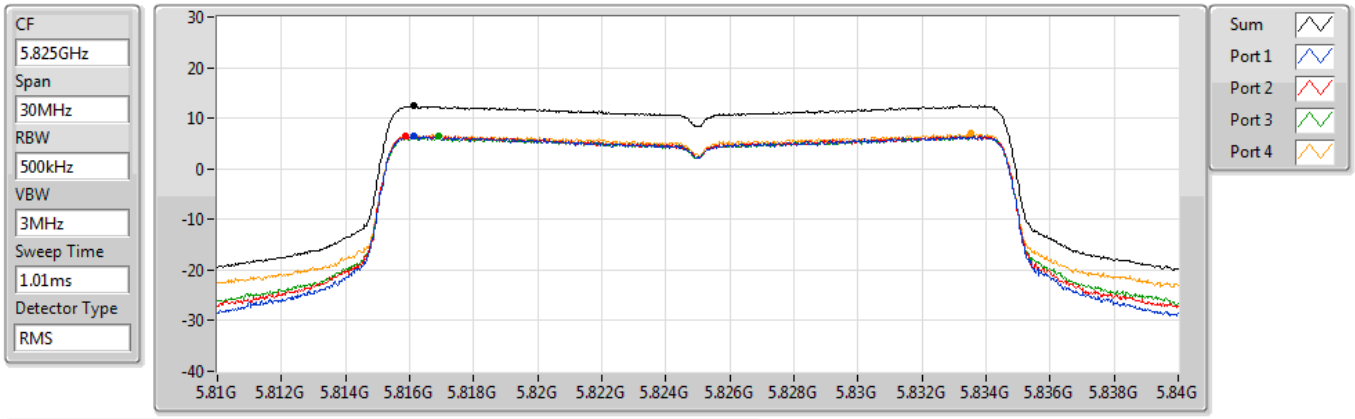
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.80	12.80	6.73	6.85	6.83	7.11

802.11ax HEW20_Nss4,(MCS0)_4TX PSD

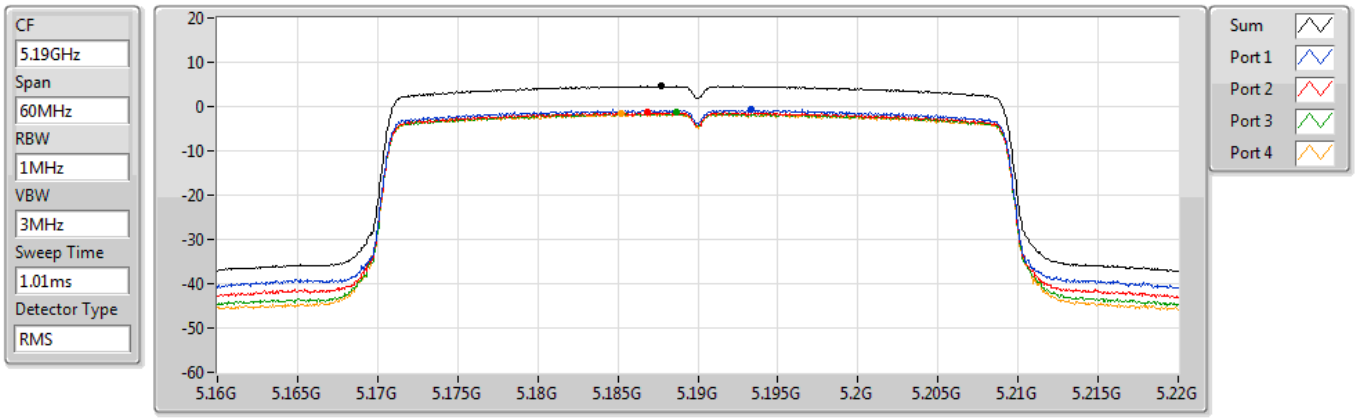
5825MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.46	12.46	6.46	6.62	6.57	6.97

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

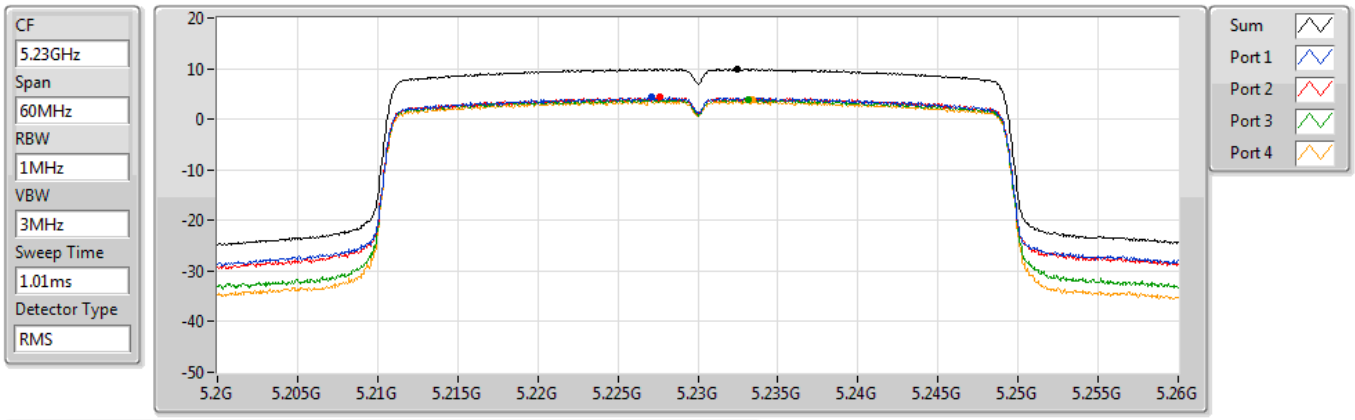
5190MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.63	4.63	-0.74	-1.28	-1.40	-1.58

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

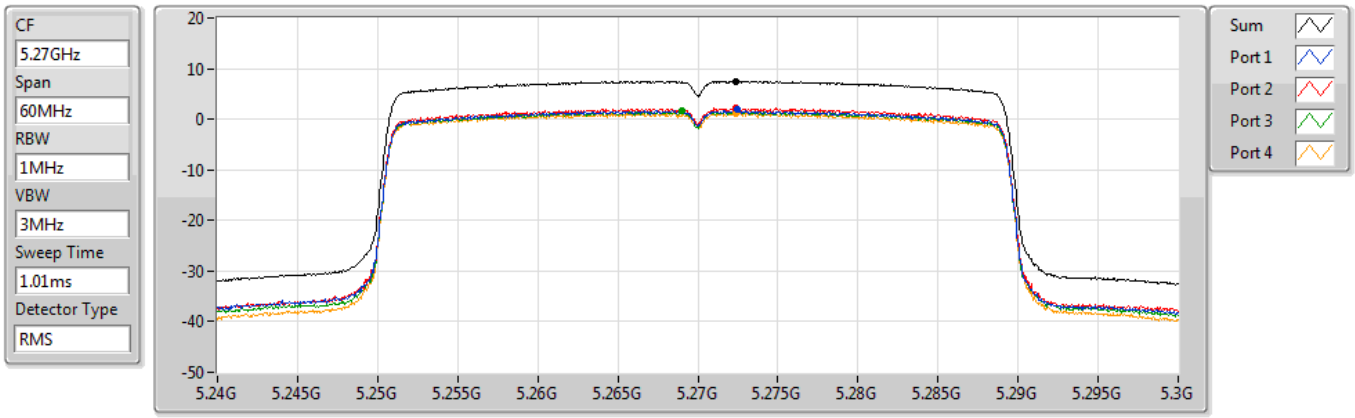
5230MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.93	9.93	4.30	4.31	3.98	3.78

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

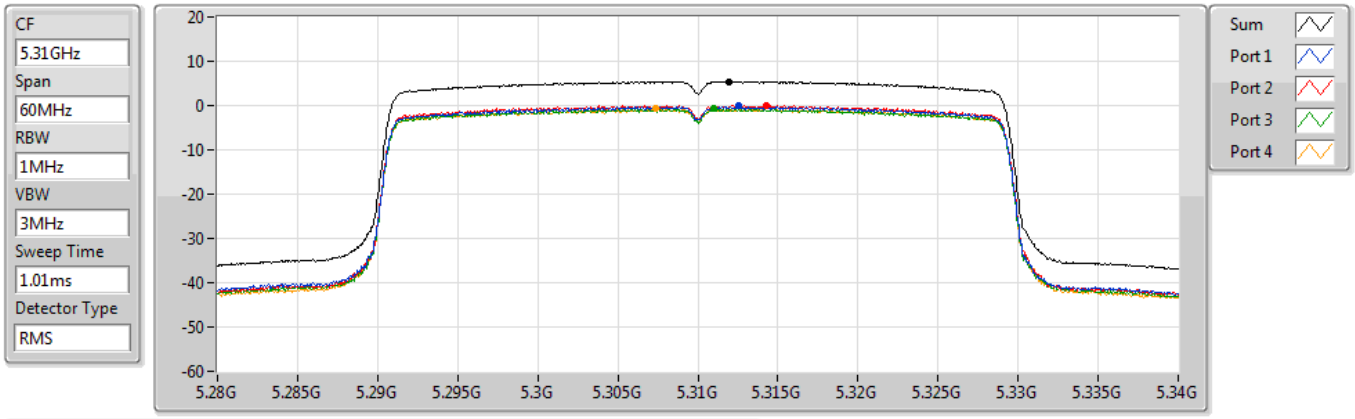
5270MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.54	7.54	1.88	2.15	1.55	1.14

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

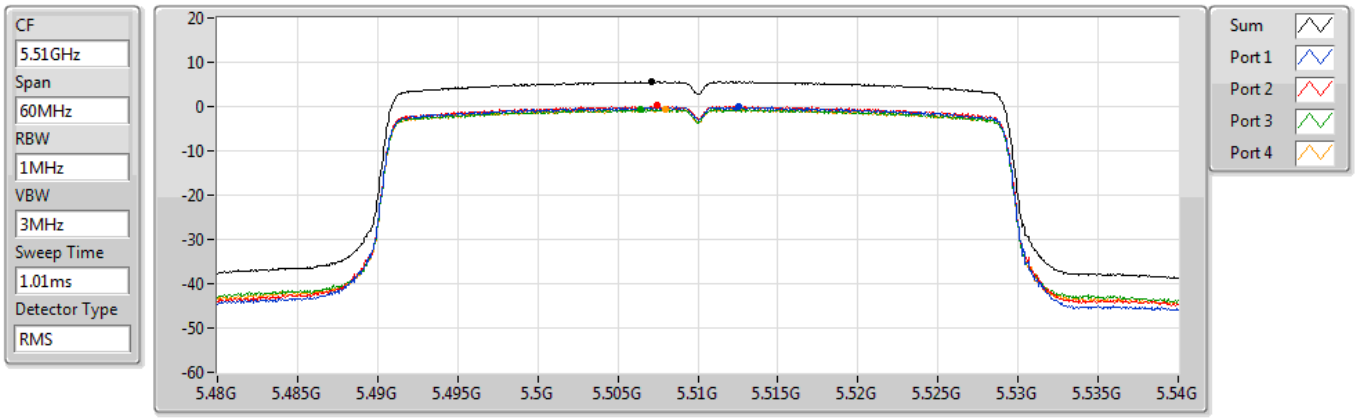
5310MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.44	5.44	-0.14	0.02	-0.75	-0.69

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

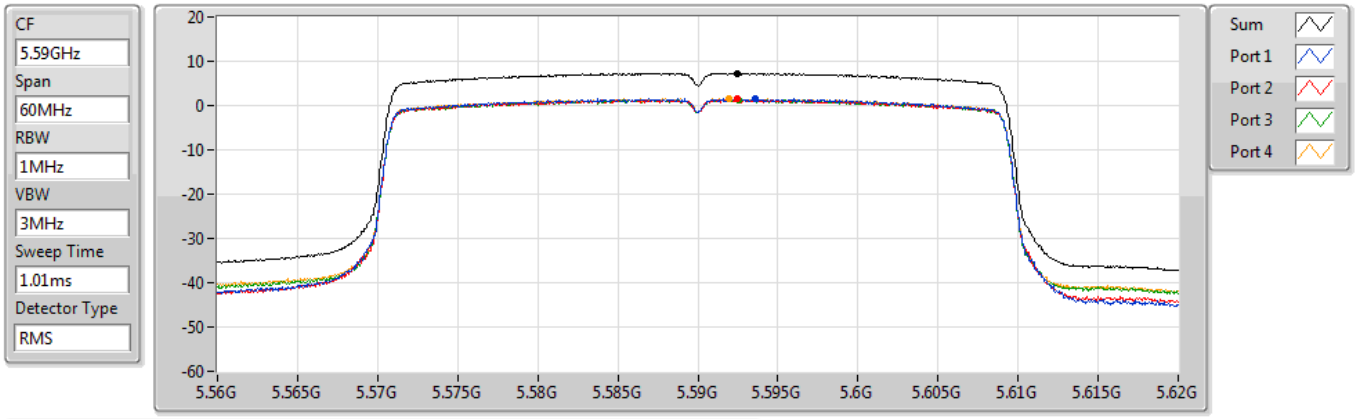
5510MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.59	5.59	0.00	0.20	-0.53	-0.49

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

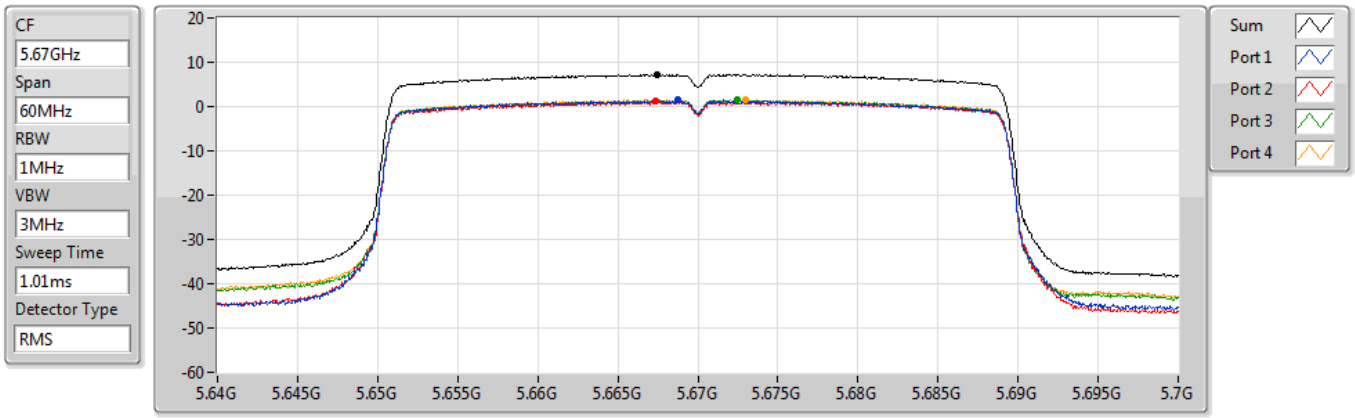
5590MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.32	7.32	1.51	1.46	1.37	1.51

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

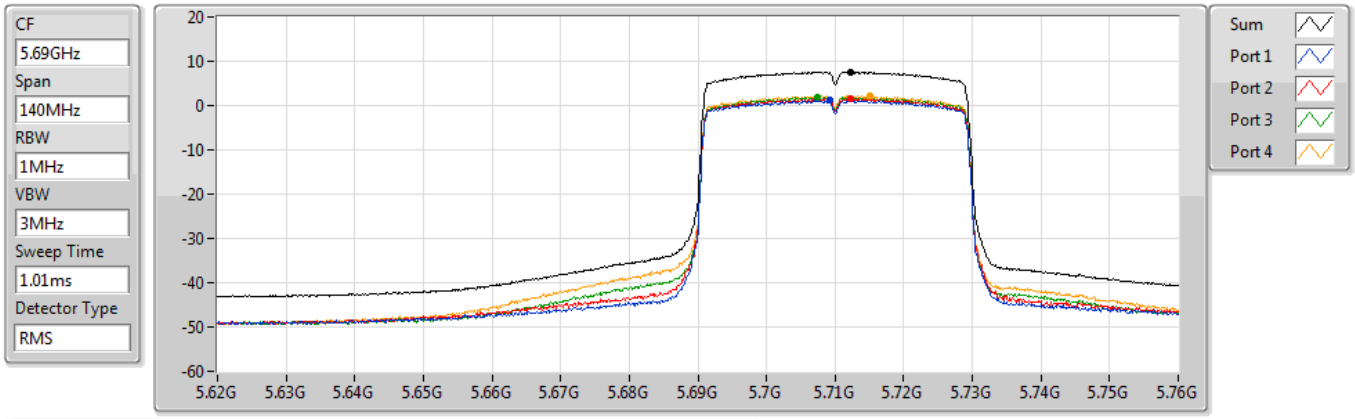
5670MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.24	7.24	1.54	1.14	1.46	1.62

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

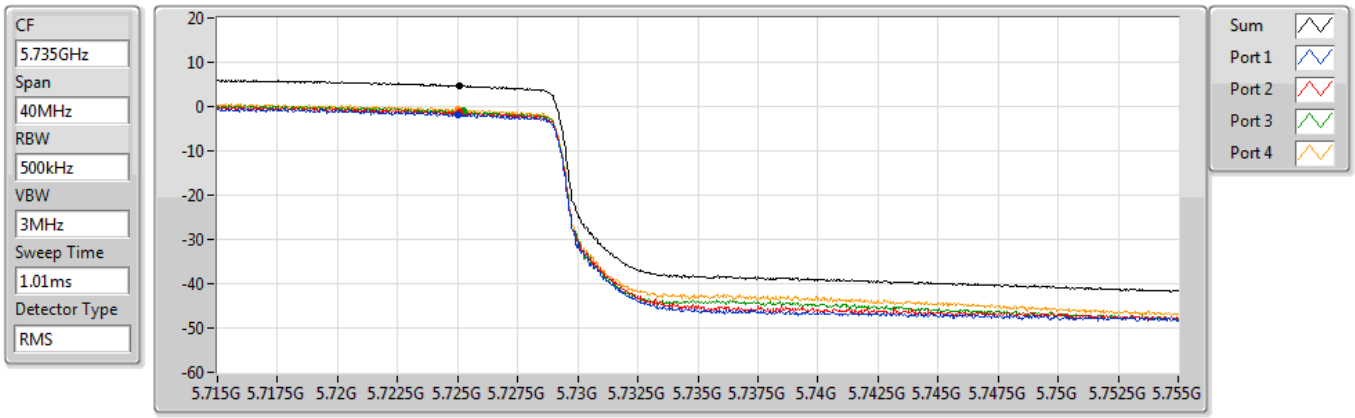
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.56	7.56	1.27	1.58	1.93	2.18

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

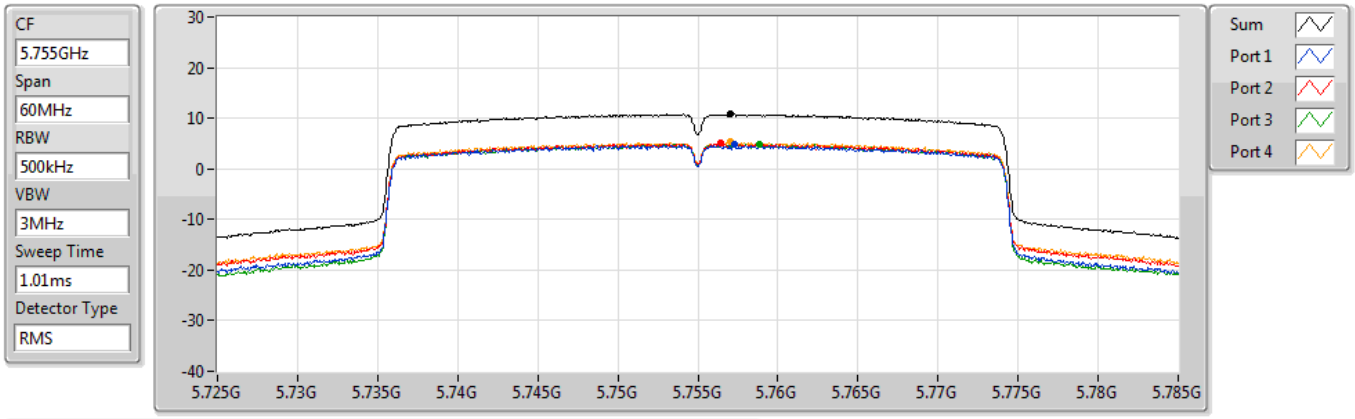
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.67	4.67	-1.73	-1.26	-1.08	-0.70

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

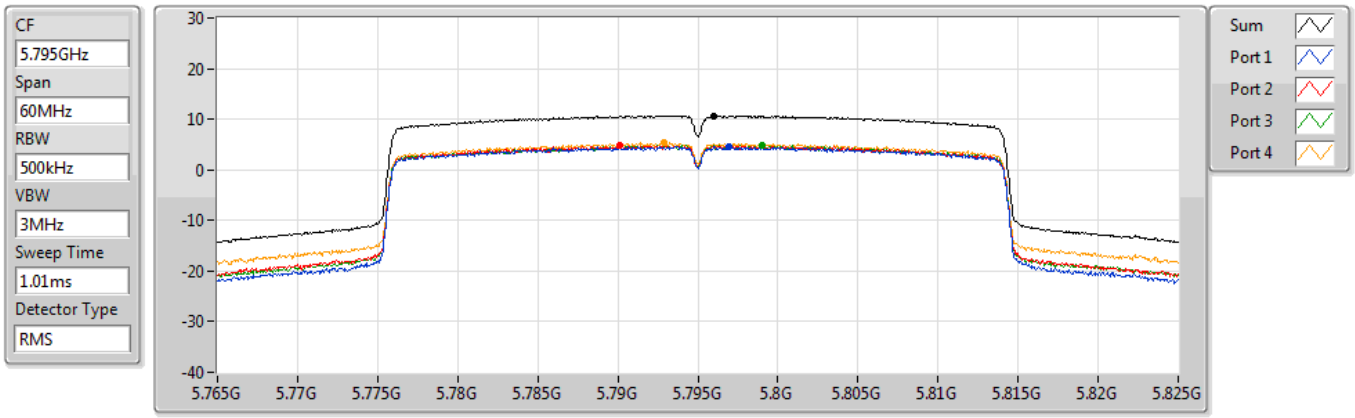
5755MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.82	10.82	4.74	4.99	4.87	5.26

802.11ax HEW40_Nss4,(MCS0)_4TX PSD

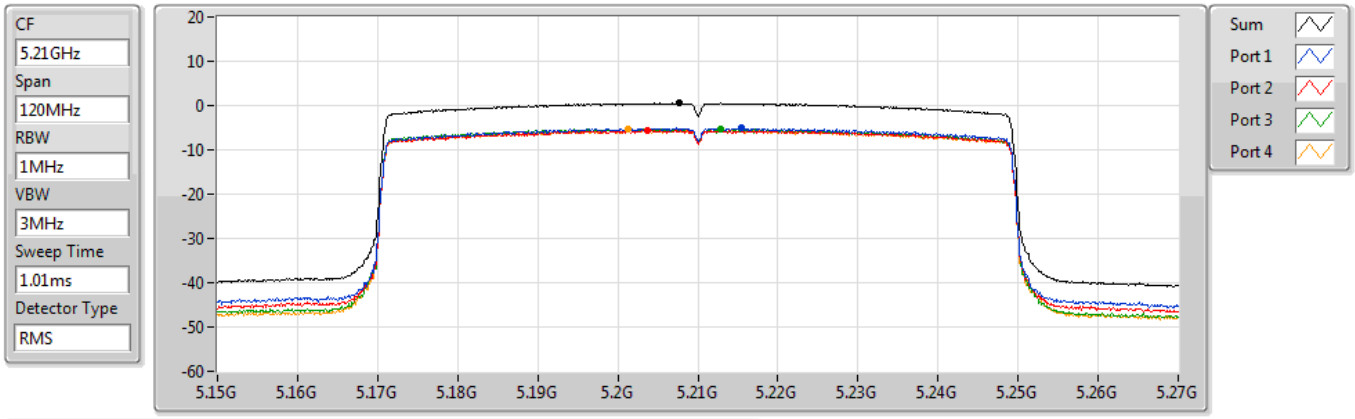
5795MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.70	10.70	4.64	4.82	4.94	5.26

802.11ax HEW80_Nss4,(MCS0)_4TX PSD

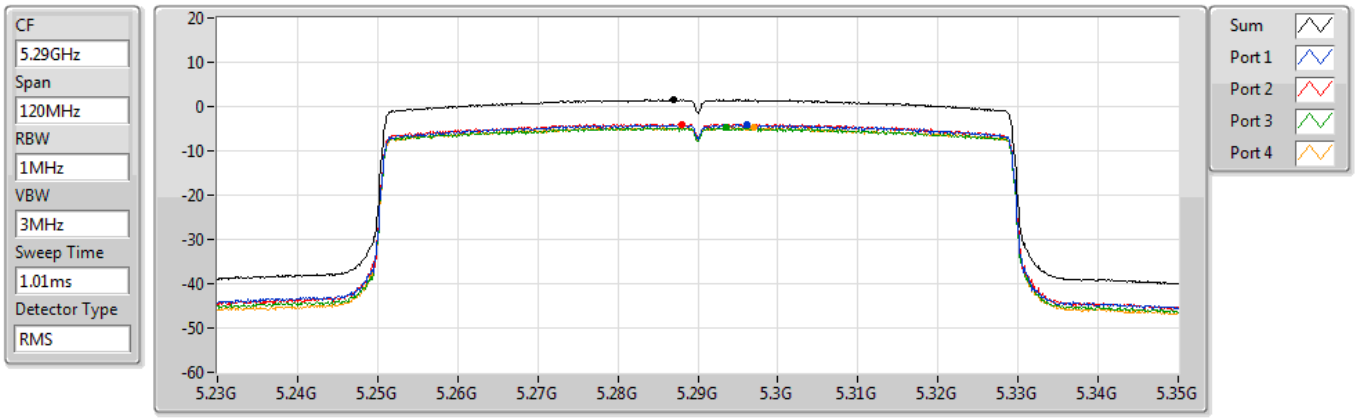
5210MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.55	0.55	-4.95	-5.50	-5.24	-5.44

802.11ax HEW80_Nss4,(MCS0)_4TX PSD

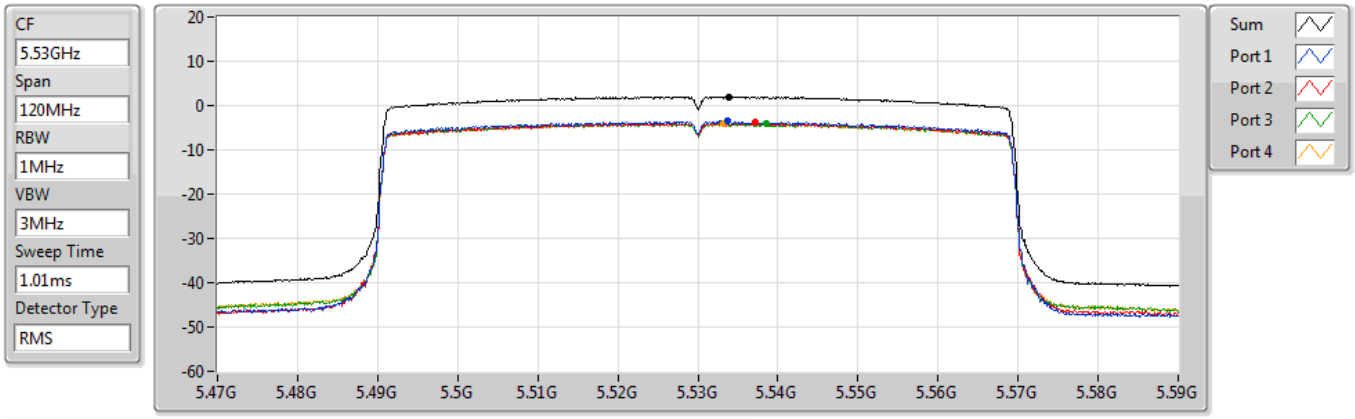
5290MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.51	1.51	-4.04	-3.95	-4.68	-4.69

802.11ax HEW80_Nss4,(MCS0)_4TX PSD

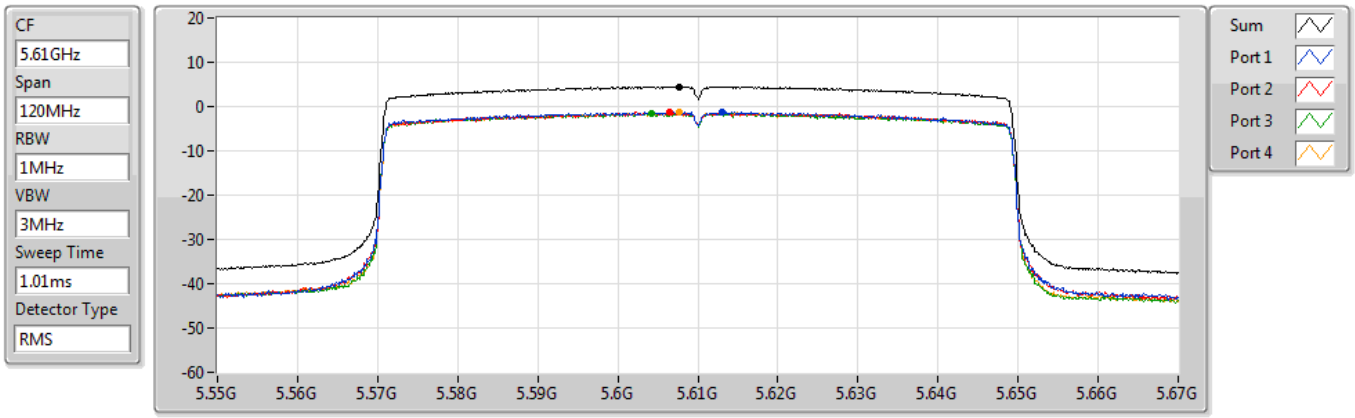
5530MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.99	1.99	-3.50	-3.70	-4.08	-4.00

802.11ax HEW80_Nss4,(MCS0)_4TX PSD

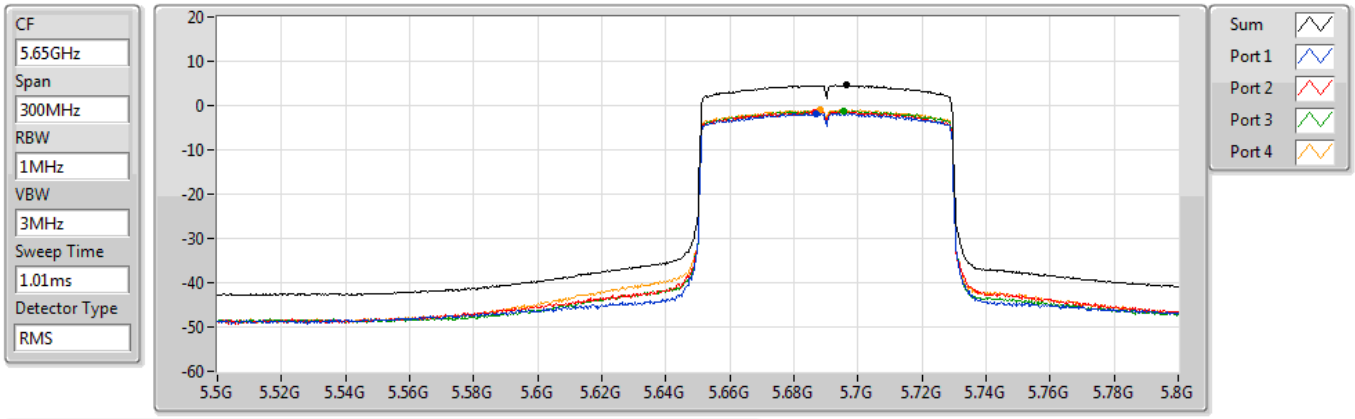
5610MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.47	4.47	-1.22	-1.35	-1.50	-1.24

802.11ax HEW80_Nss4,(MCS0)_4TX PSD

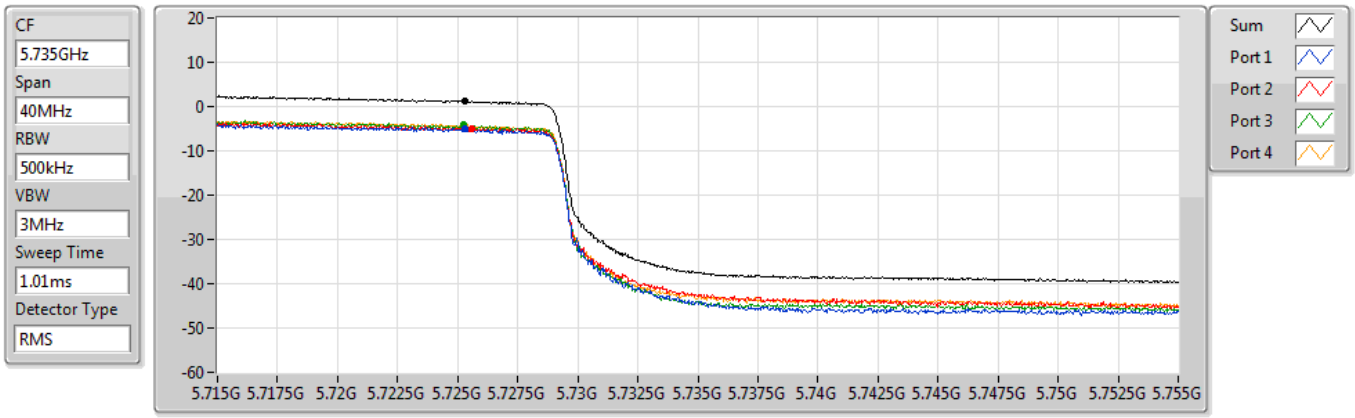
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.58	4.58	-1.74	-1.42	-1.18	-0.98

802.11ax HEW80_Nss4,(MCS0)_4TX PSD

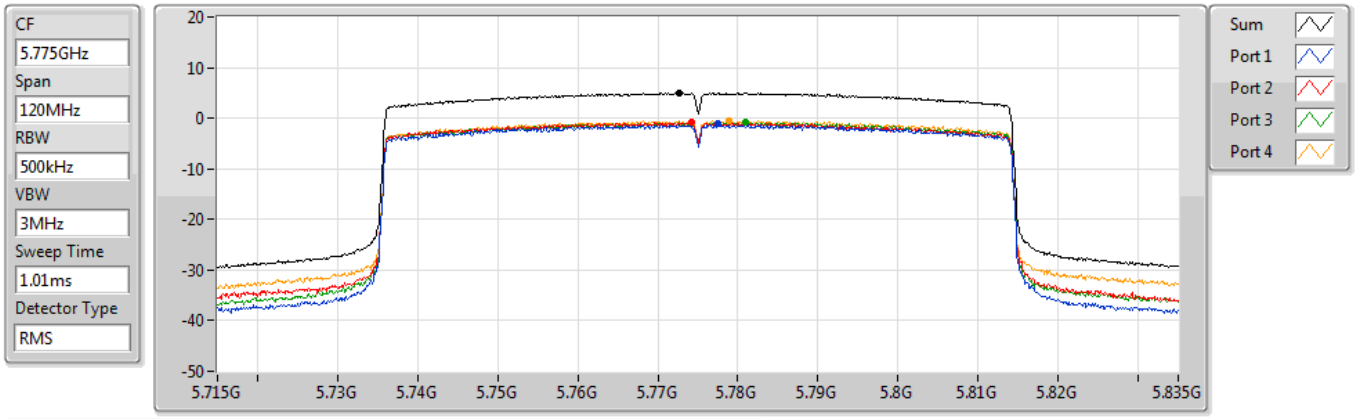
5690MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.21	1.21	-5.13	-4.90	-4.20	-4.33

802.11ax HEW80_Nss4,(MCS0)_4TX PSD

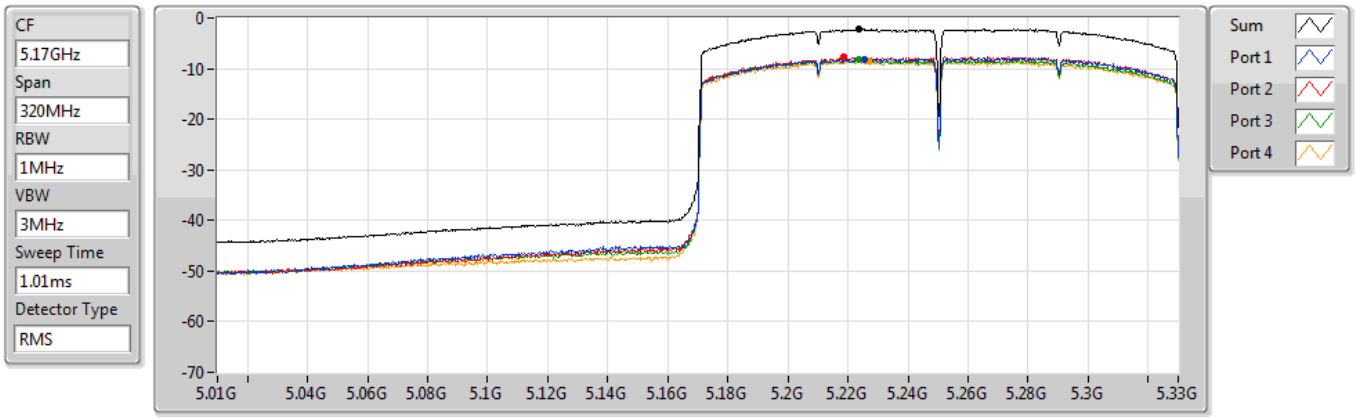
5775MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.02	5.02	-1.18	-0.79	-0.82	-0.43

802.11ax HEW160_Nss4,(MCS0)_4TX PSD

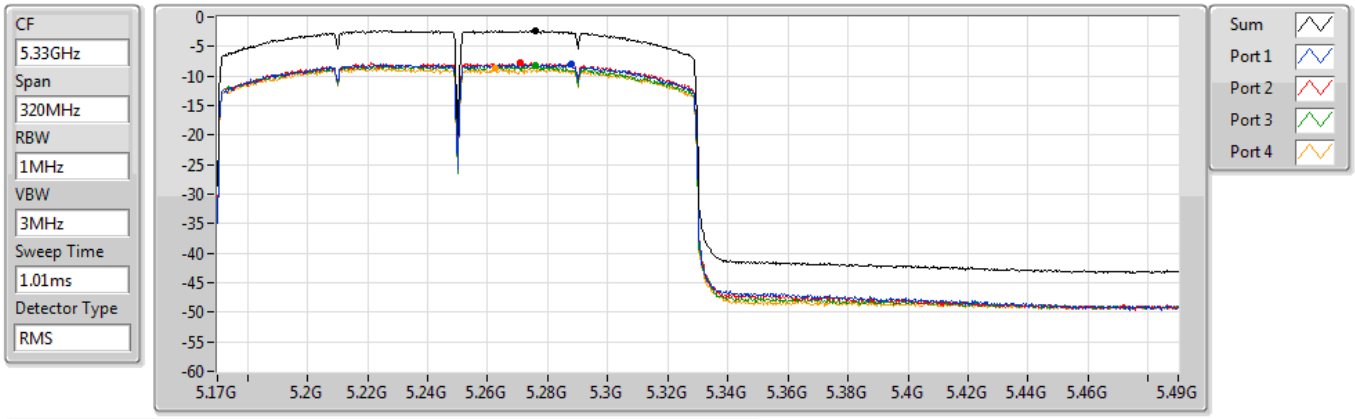
5250MHz Straddle 5.15-5.25GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.26	-2.26	-8.08	-7.76	-8.26	-8.45

802.11ax HEW160_Nss4,(MCS0)_4TX PSD

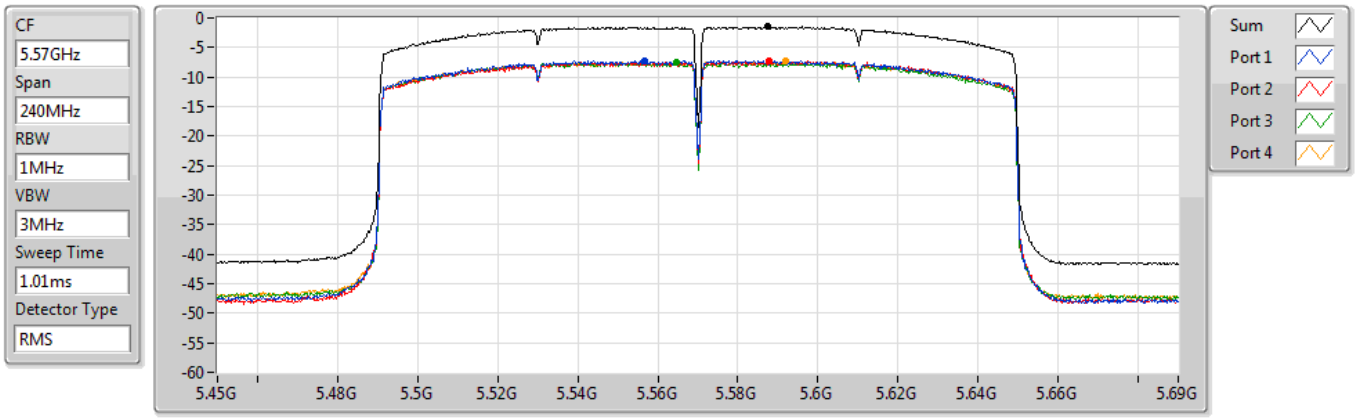
5250MHz Straddle 5.25-5.35GHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.32	-2.32	-7.99	-7.82	-8.20	-8.70

802.11ax HEW160_Nss4,(MCS0)_4TX **PSD**

5570MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.52	-1.52	-7.17	-7.35	-7.58	-7.23